MASSACHUSETTS DEPARTMENT OF TRANSPORTATION
HIGHWAY DIVISION

WESTON
ROUTE 20 / WELLESLEY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	HSI-0036(022)X	1	71
	PROJECT FILE NO.	608940	

TITLE SHEET & INDEX

INTERSECTION IMPROVEMENTS

ROUTE 20 AT BOSTON POST ROAD & WELLESLEY STREET

IN THE TOWN OF

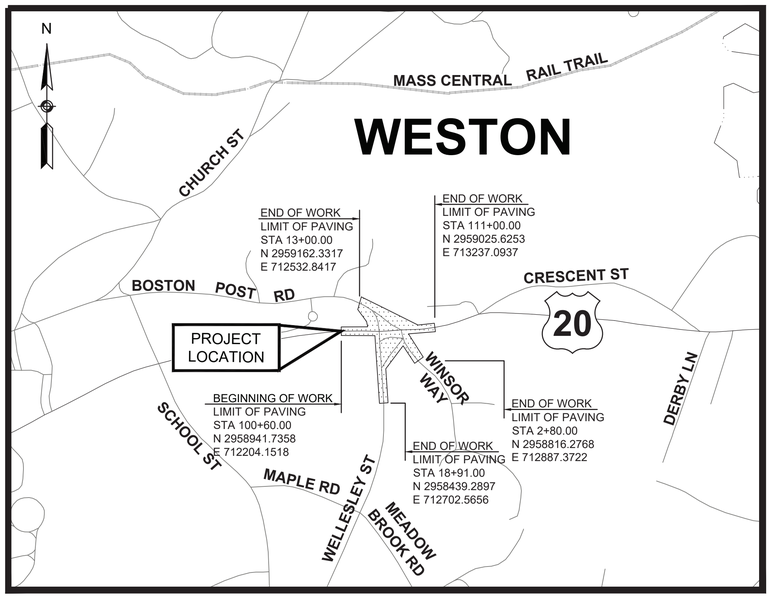
WESTON

MIDDLESEX COUNTY

FEDERAL AID PROJECT NO. HSI-0036(022)X

THESE PLANS ARE SUPPLEMENTED BY THE LATEST EDITIONS OF THE FOLLOWING PUBLICATIONS, AS IDENTIFIED IN THE CONTRACT SPECIAL PROVISIONS: THE MASSDOT CONSTRUCTION STANDARD DETAILS, THE MASSDOT STANDARD DRAWINGS FOR SIGNS AND SUPPORTS, THE MASSDOT STANDARD DRAWINGS FOR TRAFFIC SIGNALS AND HIGHWAY LIGHTING, THE MASSDOT OVERHEAD SIGNAL STRUCTURE AND FOUNDATION STANDARD DRAWINGS, THE MASSDOT TRAFFIC MANAGEMENT PLANS AND DETAIL DRAWINGS, AND THE ANSI AMERICAN STANDARD FOR NURSERY STOCK.

INDEX



0 500 1500 2500

SCALE: 1" = 500'

LENGTH OF PROJECT = 1,050.14 FEET = 0.199 MILES

DESIGN DESIGNATION

	ROUTE 20 WEST OF BOSTON POST ROAD	ROUTE 20 EAST OF BOSTON POST ROAD	BOSTON POST ROAD NORTH OF ROUTE 20	WELLESLEY STREET SOUTH OF ROUTE 20
DESIGN SPEED	40 MPH	40 MPH	35 MPH	30 MPH
ADT (2018)	19,600 VPD	33,100 VPD	5,000 VPD	8,900 VPD
ADT (2028)	20,600 VPD	34,600 VPD	5,300 VPD	9,400 VPD
K	8%	7%	12%	11%
D	51.1% WB	55.6% WB	90.9% NB	53.1% NB
T (PEAK HOUR)	2.6%	2.6%	3.3%	0.6%
T (AVERAGE DAY)	2.9%	2.9%	5.9%	1.6%
DHV	1,575 VPH	2,535 VPH	645 VPH	990 VPH
DDHV	805 VPH	1,409 VPH	585 VPH	525 VPH
FUNCTIONAL CLASSIFICATION	URBAN PRINCIPAL ARTERIAL	URBAN PRINCIPAL ARTERIAL	URBAN MINOR ARTERIAL	URBAN COLLECTOR

DATE	DESCRIPTION	REV #

COMMONWEALTH OF MASSACHUSETTS
TIMOTHY B. McINTOSH
CIVIL
No. 40145
REGISTERED PROFESSIONAL ENGINEER

Timothy B. McIntosh, P.E.

Timothy B. McIntosh, P.E.
2026.03.31 10:34:09 -04'00'

massDOT
Massachusetts Department of Transportation
Highway Division

APPROVED

Carrie Lavallee, P.E.
Digitally signed by Carrie Lavallee, P.E.
Date: 2026.03.31 13:47:24 -04'00'

03/31/2026

CHIEF ENGINEER **DATE**

14360_HD(COV).DWG Plotted on 23-Mar-2026 8:54 AM

GENERAL SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
JB	JB	JERSEY BARRIER
CB	CB	CATCH BASIN
		CATCH BASIN CURB INLET
		CHANGE IN TYPE (CIT)
FP	FP	FLAG POLE
GP	GP	GAS PUMP
MB	MB	MAIL BOX
		POST SQUARE
		POST CIRCULAR
WELL	WELL	WELL
EHH	EHH	ELECTRIC HANDHOLE
		FENCE GATE POST
GG	GG	GAS GATE
BHL #	BHL #	BORING HOLE
MW #	MW #	MONITORING WELL
TP #	TP #	TEST PIT
		HYDRANT
		LIGHT POLE
CO.BD.		COUNTY BOUND
		GPS POINT
C	C	CABLE MANHOLE
D	D	DRAINAGE MANHOLE
E	E	ELECTRIC MANHOLE
G	G	GAS MANHOLE
M	M	MISC MANHOLE
S	S	SEWER MANHOLE
T	T	TELEPHONE MANHOLE
W	W	WATER MANHOLE
MHB	MHB	MASSACHUSETTS HIGHWAY BOUND
MON		MONUMENT
SB		STONE BOUND
TB		TOWN OR CITY BOUND
		TRAVERSE OR TRIANGULATION STATION
TPL or GUY	TPL or GUY	TROLLEY POLE OR GUY POLE
HTP		TRANSMISSION POLE
UFB	UFB	UTILITY POLE W/ FIREBOX
UPDL	UPDL	UTILITY POLE WITH DOUBLE LIGHT
ULT	ULT	UTILITY POLE W / 1 LIGHT
UPL	UPL	UTILITY POLE
		BUSH
SIZE & TYPE		TREE
		STUMP
		SWAMP / MARSH
WG	WG	WATER GATE
PM	PM	PARKING METER
		OVERHEAD CABLE/WIRE
		CURBING
100 99		CONTOURS (ON-THE-GROUND SURVEY DATA)
100 99		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
x	x	CHAIN LINK OR METAL FENCE
		WOOD FENCE
		HAY BALES/SILT FENCE
		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
1	1	CONTROLLER PHASE ACTUATED
		TRAFFIC SIGNAL HEAD (SIZE AS NOTED)
		WIRE LOOP DETECTOR (6' x 6' TYP UNLESS OTHERWISE SPECIFIED)
		VIDEO DETECTION CAMERA
		MICROWAVE DETECTOR
		PEDESTRIAN PUSH BUTTON, SIGN (DIRECTIONAL ARROW AS SHOWN) AND SADDLE
	*	EMERGENCY PREEMPTION CONFIRMATION STROBE LIGHT
		VEHICULAR SIGNAL HEAD
		VEHICULAR SIGNAL HEAD, OPTICALLY PROGRAMMED
		FLASHING BEACON
		PEDESTRIAN SIGNAL HEAD, (TYPE AS NOTED OR AS SPECIFIED)
RRSG	RRSG	RAILROAD SIGNAL
OR		SIGNAL POST OR MAST ARM AND BASE (ALPHA-NUMERIC DESIGNATION NOTED)
	20'	MAST ARM, SHAFT AND BASE (ARM LENGTH AS NOTED)
		HIGH MAST POLE OR TOWER
		SIGN AND POST
		SIGN AND POST (2 POSTS)
	20'	MAST ARM WITH LUMINAIRE
		OPTICAL PRE-EMPTION DETECTOR
		CONTROL CABINET, GROUND MOUNTED
		CONTROL CABINET, POLE MOUNTED
		FLASHING BEACON CONTROL AND METER PEDESTAL
		LOAD CENTER ASSEMBLY
		PULL BOX 12"x12" (OR AS NOTED)
		ELECTRIC HANDHOLE 12"x24" (OR AS NOTED)
		TRAFFIC SIGNAL CONDUIT

PAVEMENT MARKINGS SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
		PAVEMENT ARROW - WHITE
ONLY	ONLY	LEGEND "ONLY" - WHITE
	SL	STOP LINE (12" WIDTH)
	CW	CROSSWALK (SEE DETAIL SHEET ##) (WIDTHS AS NOTED)
	SWL	SOLID WHITE LINE (6" LINE WIDTH)
	BWL	BROKEN WHITE LINE (6" LINE WIDTH)
	DWLEx	DOTTED WHITE LINE, 2' LINE W/6' SPACING (6" LINE WIDTH)
	DBYL	DOUBLE YELLOW LINE (6" LINE WIDTH)
		BIKE LANE SYMBOL (SEE DETAIL SHEET ##)
	SWCHL	SOLID WHITE CHANNELIZED LINE (12" LINE WIDTH)
	SYCHL	SOLID YELLOW CHANNELIZED LINE (12" LINE WIDTH) (SEE DETAIL SHEET ##)
		LANE-REDUCTION ARROW (SEE DETAIL SHEET ##)
		SHARED LANE MARKING (SHARROW) (SEE DETAIL SHEET ##)
		BICYCLE CROSSING (SEE DETAIL SHEET ##)
		TWO STAGE TURN QUEUE BOX (SEE DETAIL SHEET ##)
		SEPARATED BIKE LANE MARKING (SEE DETAIL SHEET ##)
		BIKE LEGEND AT STOP LINE (SEE DETAIL SHEET ##)

ABBREVIATIONS

GENERAL

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
PCR	PEDESTRIAN CURB RAMP
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

ABBREVIATIONS (cont.)

GENERAL

PWW	PAVED WATER WAY
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
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

WESTON
ROUTE 20 / WELLESLEY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	HSI-0036(022)X	2	71
	PROJECT FILE NO. 608940		

LEGEND & ABBREVIATIONS

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WESTON
ROUTE 20 / WELLESLEY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	HSI-0036(022)X	3	71
	PROJECT FILE NO. 608940		

LEGEND & ABBREVIATIONS

GENERAL ABBREVIATIONS

ABAN	ABANDON
ADJ	ADJUST
ADJ (BO-EV)	ADJUST BY OTHERS EVERSOURCE
ADJ (BO-NG)	ADJUST BY OTHERS NATIONAL GRID
ADJ (BO-VZ)	ADJUST BY OTHERS VERIZON
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
BO-EV	BY OTHERS EVERSOURCE
BO-NG	BY OTHERS NATIONAL GRID
BO-VZ	BY OTHERS VERIZON
BOS	BOTTOM OF SLOPE
BR.	BRIDGE
CC	CEMENT CONCRETE
CCM	CEMENT CONCRETE MASONRY
CEM	CEMENT
CI	CURB INLET
CLF	CHAIN LINK FENCE
CL	CENTERLINE
CO.	COUNTY
CONC	CONCRETE
CONT	CONTINUOUS / CONTINUED
CONST	CONSTRUCTION
CR GR	CROWN GRADE
DIA	DIAMETER
DWY	DRIVEWAY
ELEV (or EL.)	ELEVATION
EMB	EMBANKMENT
EOP	EDGE OF PAVEMENT
EQ	EQUAL
EXIST (or EX)	EXISTING
EXC	EXCAVATION
FDN.	FOUNDATION
FDP	FULL DEPTH PAVEMENT
FLDSTN	FIELDSTONE
GAR	GARAGE
GD	GROUND
GRAN	GRANITE
GRAV	GRAVEL
GRD	GUARD
HMA	HOT MIX ASPHALT
HOR	HORIZONTAL
HWY	HIGHWAY
JCT	JUNCTION
LB	LEACHING BASIN
LOAM	LOAM BORROW
LSA	LANDSCAPED AREA
LT	LEFT
MAHWL	MEAN AVERAGE HIGH WATER LINE
MAX	MAXIMUM
MB	MAILBOX
MHB	MASSACHUSETTS HIGHWAY BOUND
MIN	MINIMUM
MOD	MODIFIED
MSE	MECHANICALLY STABILIZED EARTH
NERR	NEW ENGLAND RAILROAD
NIC	NOT IN CONTRACT
NO.	NUMBER
NTS	NOT TO SCALE
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
P.G.L.	PROFILE GRADE LINE
PREV	PREVIOUS/PREVIOUSLY
PROJ	PROJECT
PROP	PROPOSED
PSB	PLANTABLE SOIL BORROW
PVMT	PAVEMENT
R&D	REMOVE AND DISCARD
R&R	REMOVE AND RESET
R&S	REMOVE AND STACK
RD	ROAD
RDWY	ROADWAY
REB	REBUILD
REM	REMOVE
REMOD	REMODEL
RET	RETAIN
RET WALL	RETAINING WALL
ROW	RIGHT OF WAY
RR	RAILROAD
RT	RIGHT

GENERAL ABBREVIATIONS (CONT)

SB	STONE BOUND
SHLD	SHOULDER
SHLO/S.H.L.O.	STATE HIGHWAY LAYOUT LINE
ST	STREET
STA	STATION
STD	STANDARD
SW	SIDEWALK
TEMP	TEMPORARY
TC	TOP OF CURB
TOS	TOP OF SLOPE
TRANS	TRANSITION
TRM	TURF REINFORCING MAT
TYP	TYPICAL
VAR	VARIES
VERT	VERTICAL
WCR	WHEEL CHAIR RAMP
WP	WORKING POINT
X-SECT	CROSS SECTION

UTILITY ABBREVIATIONS

CB	CATCH BASIN
CBCI	CATCH BASIN WITH CURB INLET
CIP	CAST IRON PIPE
CIT	CHANGE IN TYPE
CMP	CORRUGATED METAL PIPE
CSP	CORRUGATED STEEL PIPE
DI	DROP INLET
DIP	DUCTILE IRON PIPE
FES	FLARED END SECTION
F&C	FRAME AND COVER
F&G	FRAME AND GRATE
GG	GAS GATE
GI	GUTTER INLET
GIP	GALVANIZED IRON PIPE
HDPE	HIGH DENSITY POLYETHYLENE PIPE
HDW	HEADWALL
HYD	HYDRANT
INV	INVERT
LB	LEACH BASIN
LP	LIGHT POLE
MH	MANHOLE
MW	MONITORING WELL
OHW	OVERHEAD WIRE
PVC	POLYVINYLCHLORIDE PIPE
PWW	PAVED WATER WAY
RCP	REINFORCED CONCRETE PIPE
SMH	SEWER MANHOLE
TSV&B	TAPPING SLEEVE VALVE & BOX
UP	UTILITY POLE
WG	WATER GATE
WIP	WROUGHT IRON PIPE
WM	WATER METER/WATER MAIN

ALIGNMENT & GRADING ABBREVIATIONS

CC	CENTER OF CURVE
HP	HIGH POINT
I.T.	INTERSECTION OF TANGENT
LP	LOW POINT
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVATURE
PI	POINT OF INTERSECTION
PNT	POINT
POC	POINT ON CURVE
POT	POINT ON TANGENT
PRC	POINT OF REVERSE CURVATURE
PT	POINT OF TANGENCY
∠PT	ANGLE POINT
R	RADIUS OF CURVATURE
T	TANGENT DISTANCE OF CURVE
TAN	TANGENT
25.45	SPOT ELEVATION

PROFILE ABBREVIATIONS

AD	ALGEBRAIC DIFFERENCE IN RATES OF GRADE
HSD	HORIZONTAL SIGHT DISTANCE
K	RATE OF VERTICAL CURVATURE
L	LENGTH OF CURVE
PVC	POINT OF VERTICAL CURVATURE
PVCC	POINT OF VERTICAL COMPOUND CURVATURE
PVI	POINT OF VERTICAL INTERSECTION
PVRC	POINT OF VERTICAL REVERSE CURVATURE
PVT	POINT OF VERTICAL TANGENCY
SSD	STOPPING SIGHT DISTANCE
VC	VERTICAL CURVE

TRAFFIC SIGNAL

AADT	ANNUAL AVERAGE DAILY TRAFFIC
CAB.	CABINET
CCVE	CLOSED CIRCUIT VIDEO EQUIPMENT
DW	STEADY DON'T WALK
FDW	FLASHING DON'T WALK
FR	FLASHING RED LEFT ARROW
FR	FLASHING RED RIGHT ARROW
FR	FLASHING CIRCULAR RED
FY	FLASHING YELLOW LEFT ARROW
FY	FLASHING YELLOW RIGHT ARROW
FY	FLASHING CIRCULAR YELLOW
G	STEADY GREEN LEFT ARROW
G	STEADY GREEN RIGHT ARROW
G	STEADY GREEN VERTICAL ARROW
GSL	STEADY GREEN SLASH LEFT ARROW
GSR	STEADY GREEN SLASH RIGHT ARROW
G	STEADY CIRCULAR GREEN
OL	OVERLAP
PED	PEDESTRIAN
PTZ	PAN, TILT, ZOOM
R	STEADY RED LEFT ARROW
R	STEADY RED RIGHT ARROW
R	STEADY CIRCULAR RED
TR SIG	TRAFFIC SIGNAL
TSC	TRAFFIC SIGNAL CONDUIT
W	STEADY WALK
Y	STEADY YELLOW LEFT ARROW
Y	STEADY YELLOW RIGHT ARROW
Y	STEADY CIRCULAR YELLOW

GENERAL NOTES:

1. EXISTING CONDITIONS AND TOPOGRAPHICAL INFORMATION FROM AN ACTUAL FIELD SURVEY CONDUCTED BY VHB, INC. IN OCTOBER, 2018 AND AUGMENTED WITH ADDITIONAL SURVEY IN SEPTEMBER 2019 AND MARCH 2023. VHB FIELD BOOK #1282.
2. THE RIGHT-OF-WAY LINES AND RECORD BASELINES SHOWN ON THIS PLAN ARE BASED ON STATE HIGHWAY LAYOUTS #289 DATED 1898, #2746 DATED 1931, #2747 DATED 1931, #2786 DATED 1931. THE MONUMENTS FOUND ON THIS PLAN WERE FIELD LOCATED AND USED TO ESTABLISH THE RIGHT-OF-WAY LINES. THE PROPERTY LINES OF INDIVIDUAL OWNERS ALONG THE RIGHT-OF-WAY SHOWN ON THIS PLAN ARE FROM RECORD DEEDS AND PLANS. INDIVIDUAL ABUTTER PROPERTIES WERE NOT SURVEYED.
3. THE WETLANDS SHOWN ON THIS PLAN WERE FLAGGED AND FIELD LOCATED BY VHB ENVIRONMENTAL DEPARTMENT IN AUGUST, 2023.
4. THE CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND GRADES IN THE FIELD BEFORE COMMENCING WORK AND PROMPTLY NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
5. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
6. CONTRACTOR SHALL NOTIFY DIG SAFE 72 HOURS PRIOR TO ANY ACTIVITY.
7. THE EXISTING DRAINAGE INVERT ELEVATIONS ARE LISTED IN A CLOCKWISE DIRECTION WITH THE OUTLET ELEVATION LAST.
8. DRAINAGE ELEVATIONS ARE PROVIDED FOR DESIGN PURPOSES ONLY. THE CONTRACTOR SHALL VERIFY BY TEST PIT, THE LOCATIONS OF EXISTING UTILITIES WHICH MAY CONFLICT WITH THE PROPOSED DRAINAGE DESIGN. ANY FIELD ADJUSTMENTS REQUIRED WILL BE MADE AS APPROVED OR DIRECTED BY THE ENGINEER. ONLY AFTER THE CONTRACTOR VERIFIES ELEVATIONS FOR THE CONSTRUCTABILITY OF THE DRAINAGE SYSTEM SHALL ANY STRUCTURES BE ORDERED. ANY FIELD ADJUSTMENTS TO LINE & GRADE UP TO A DEPTH OF 5' SHALL BE INCLUDED IN THE COST OF THE PIPE. PIPE EXCAVATION GREATER THAN 5' WILL BE PAID UNDER CLASS B TRENCH EXCAVATION.
9. THE CONTRACTOR SHALL VERIFY BY TEST PIT, THE LOCATIONS OF EXISTING UTILITIES WHICH MAY CONFLICT WITH PROPOSED CONDUIT AND SIGNAL EQUIPMENT. ANY FIELD ADJUSTMENTS REQUIRED WILL BE MADE AS APPROVED OR DIRECTED BY THE ENGINEER.
10. WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR, AND THE INFORMATION FURNISHED TO THE ENGINEER FOR RESOLUTION OF THE CONFLICT.
11. THE CONTRACTOR SHALL ALTER THE MASONRY OF THE TOP SECTION OF ALL EXISTING DRAINAGE AND SEWER STRUCTURES AS NECESSARY FOR CHANGES IN GRADE, AND RESET ALL WATER AND DRAINAGE FRAMES, GRATES AND BOXES TO THE PROPOSED FINISH SURFACE GRADE. REQUIRED NEW MASONRY SHALL BE CLAY BRICK.
12. THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS FOR THE ALTERATION AND ADJUSTMENT OF GAS, ELECTRIC, TELEPHONE AND ANY OTHER PRIVATE UTILITIES BY THE UTILITY COMPANIES.
13. EXISTING UTILITY POLES WILL BE RELOCATED BY OTHERS IF REQUIRED.
14. TREES AND SHRUBS WITHIN THE LIMITS OF GRADING SHALL BE REMOVED ONLY UPON APPROVAL OF THE ENGINEER.
15. AREAS OUTSIDE THE LIMITS OF PROPOSED WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION AT NO EXPENSE TO THE OWNER.
16. THE TERM "PROPOSED" (PROP) MEANS WORK TO BE CONSTRUCTED USING NEW MATERIALS OR, WHERE APPLICABLE, RE-USING EXISTING MATERIALS IDENTIFIED AS "REMOVE AND RESET" (R&R).
17. JOINTS BETWEEN NEW ASPHALT CONCRETE ROADWAY PAVEMENT AND SAWCUT EXISTING PAVEMENT SHALL BE THOROUGHLY COATED WITH A HOT APPLIED PAVEMENT JOINT ADHESIVE MEETING THE REQUIREMENTS OF SUBSECTION 450 OF 2023 STANDARD SPECIFICATIONS.
18. AFTER MILLING OPERATIONS AND PRIOR TO PAVING THE SUPERPAVE INTERMEDIATE OR SURFACES COURSES THE ENGINEER SHALL EVALUATE THE MILLED SURFACE AND SHALL APPLY THE APPROPRIATE REPAIR METHOD IF REQUIRED.
19. EXISTING SIGNS WITHIN THE PROJECT LIMITS SHALL BE R&S UNLESS INDICATED OTHERWISE ON THE DRAWINGS.
20. MOUNTING HEIGHT OF POST MOUNTED SIGNS, MEASURED VERTICALLY FROM THE BOTTOM OF THE SIGN TO THE TOP OF THE THE CURB OR SIDEWALK, OR TO THE ELEVATION OF THE NEAR EDGE OF THE TRAVELED WAY, SHALL BE 7 FEET UNLESS OTHERWISE SPECIFIED ON THE PLANS.
21. IF SUITABLE, EXISTING GRANITE CURB & EDGING SHALL BE RE-USED IN THE PROPOSED WORK, EXCEPT CURVED STONES OF A DIFFERENT RADIUS THAN PROPOSED CURB.
22. THE CONTRACTOR SHALL EXERCISE DUE CARE WHEN WORKING AROUND ALL PROPERTY BOUNDS WHICH ARE TO REMAIN. SHOULD ANY DAMAGE TO A BOUND RESULT FROM THE ACTIONS OF THE CONTRACTOR, THE CONTRACTOR SHALL HAVE THE BOUND REPLACED AND/OR REALIGNED BY A LICENSED PROFESSIONAL SURVEYOR AS DIRECTED BY THE ENGINEER AT NO ADDITIONAL COST.
23. DISPOSAL OF ALL SURPLUS MATERIAL SHALL BE AS APPROVED BY THE ENGINEER AND OWNER.
24. LATERAL DRAIN PIPES SHALL BE INSTALLED WITH A PITCH OF 0.01 FOOT PER FOOT (MINIMUM) UNLESS NOTED OTHERWISE ON THE PLANS.
25. IN INSTANCES WHERE AN EXISTING MANHOLE, HANDHOLE OR OTHER "SURFACE" TYPE STRUCTURE THAT CANNOT BE REMOVED OR RESET IS WITHIN THE PROPOSED OR EXISTING ACCESSIBLE SURFACE, THE STRUCTURE SHALL BE CAREFULLY ADJUSTED SUCH THAT THE TOPMOST SURFACES OR THE STRUCTURE COVER SHALL BE FLUSH WITH THE CURB RAMP SURFACE.

HORIZONTAL AND VERTICAL DATUM NOTES:

1. THE COORDINATES SHOWN HEREON THAT ARE EXPRESSED IN US SURVEY FEET ARE RESULTANT FROM VHB EXISTING CONTROLS, GNSS RTK SURVEY USING LEICA SMARTNET FOR POINTS 1-2, CONVENTIONAL TOTAL STATION TRAVERSING FOR POINTS 3-8, AND ARE RELATED TO THE NORTH AMERICAN DATUM OF 1983/NAD83(2011), SPC83/MASSACHUSETTS (MAINLAND ZONE), EPOCH 2010.00. SOURCE CONTROL POINTS COORDINATES, ELEVATIONS AND COMBINED SCALE FACTOR WERE ESTABLISHED BY VHB AND ARE LISTED BELOW:

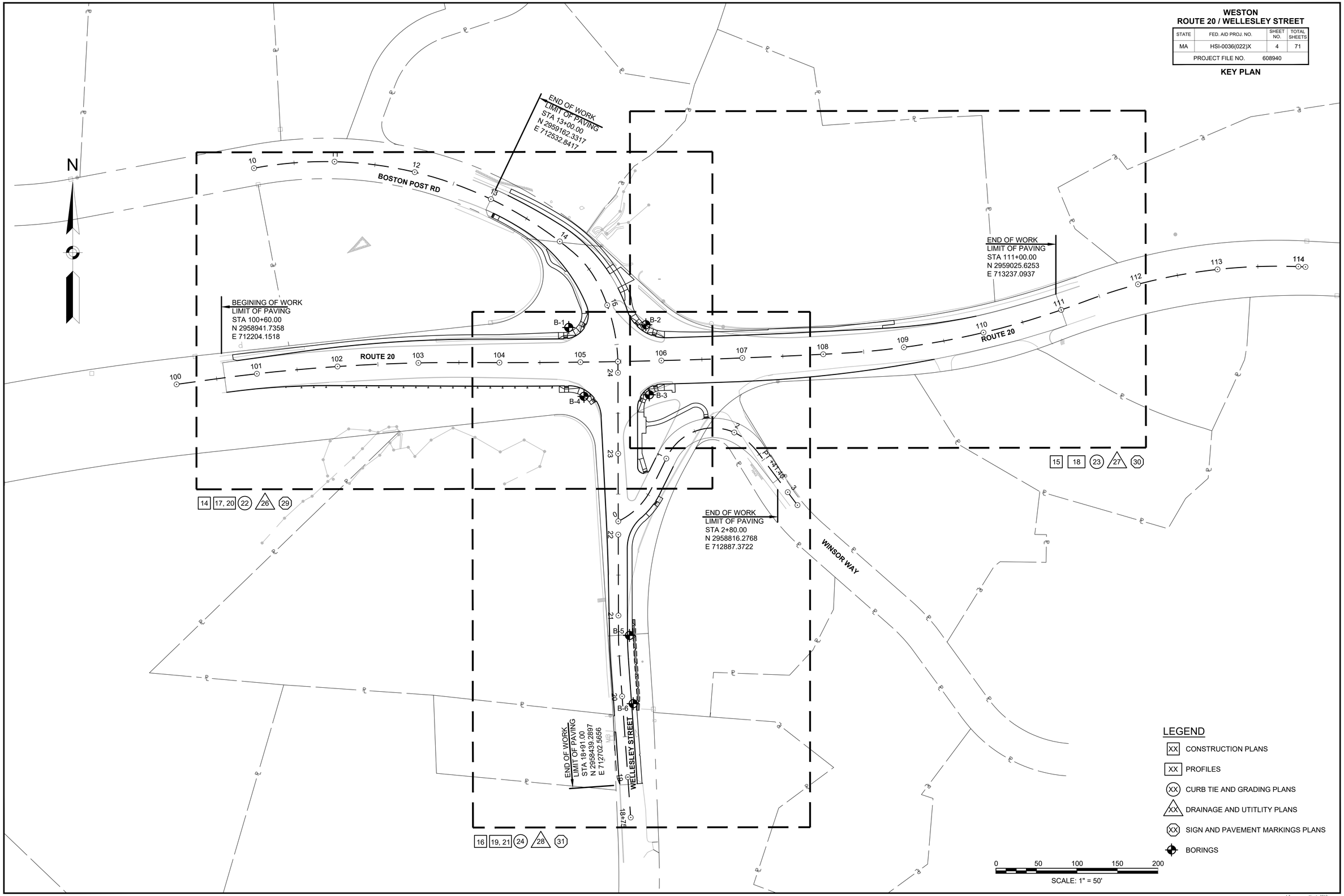
POINT ID	NORTHING (USFT)	EASTING (USFT)	ELEV (USFT)	COMBINED GROUND TO GRID S.F.
1	2958988.438	712746.751	179.140	0.9999646002
2	2958981.128	712470.394	176.170	0.9999647415

2. ELEVATIONS SHOWN HEREON ARE RESULTANT FROM VHB EXISTING CONTROLS AND DIFFERENTIAL LEVELING AND ARE RELATED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) GEOID 12B AND ARE RELATIVE POINTS 1 AND 2, AS LISTED ABOVE.
3. THE TRAVERSE LINES ARE OPEN ENDED. THE SCALE FACTOR AT POINT 1 IS 0.9999646002 WHICH SHOULD PROVIDE A GOOD AVERAGE SCALE FACTOR FOR THE SITE.
4. VERTICAL MISCLOSURE BETWEEN 2 AND 1 WAS 0.045' USING GNSS RTK LEICA SMARTNET WHEN COMPARED TO DIFFERENTIAL LEVELS.
5. HORIZONTAL MISCLOSURE BETWEEN 2 AND 1 WAS 0.01' WHEN COMPARED TO TOTAL STATION DATA. POINT 2 WAS HELD FOR A FIXED LOCATION HORIZONTALLY AND VERTICALLY DUE TO ITS BETTER SUSTAINABILITY FOR GNNS SURVEYS.

WESTON
ROUTE 20 / WELLESLEY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	HSI-0036(022)X	4	71
PROJECT FILE NO.	608940		

KEY PLAN



LEGEND

- XX CONSTRUCTION PLANS
- XX PROFILES
- XX CURB TIE AND GRADING PLANS
- XX DRAINAGE AND UTITLITY PLANS
- XX SIGN AND PAVEMENT MARKINGS PLANS
- BORINGS

14360_HDK(KEY).DWG Plotted on 30-Jan-2026 12:04 PM

BORING LOG — B-1

LGCI Lahlaf Geotechnical Consulting, Inc. — PAGE 1 OF 1

CLIENT: Vanasse Hangen Brustlin, Inc. **PROJECT NAME:** Proposed Mast Arms and Retaining Wall
LGCI PROJECT NUMBER: 2405 **PROJECT LOCATION:** Weston, MA

DATE STARTED: 7/14/24 **DATE COMPLETED:** 7/15/24
BORING LOCATION: NW corner of Wellesley St. / Route 20
COORDINATES: N 2958995 E 712618
SURFACE EI.: 177 ft. (see note 1) **TOTAL DEPTH:** 26 ft.
WEATHER: 80's / Night
GROUNDWATER LEVELS:
▽ **DURING DRILLING:** 12.0 ft. / El. 165.0 ft. Based on sample moisture
▼ **AT END OF DRILLING:** 12.0 ft. / El. 165.0 ft.
▽ **OTHER:** -

DRILLING SUBCONTRACTOR: Soil X, Corp.
DRILLING FOREMAN: Edwin Fajardo
DRILLING METHOD: Hollow Stem Auger (4-1/4" I.D.)
DRILL RIG TYPE/MODEL: Diedrich D-70 Turbo ATV
HAMMER TYPE: Automatic
HAMMER WEIGHT: 140 lb. **HAMMER DROP:** 30 in.
SPLIT SPOON DIA.: 1.375 in. I.D., 2 in. O.D.
CORE BARREL SIZE: NA
LOGGED BY: MBH **CHECKED BY:** EP

Depth (ft.)	El. (ft.)	Sample Interval (ft.)	Sample Number	Blow Counts (N Value)	Pen./Rec. (in.)	Remark	Strata	Depth (ft.)	Material Description
							Topsoil	1.0	Top 12": Topsoil
	175.0	1	G1		54/54		Fill	170.0	G1 - Well-Graded SAND with Silt and Gravel (SW-SM), fine to coarse, ~10% fines, 20-25% fine to coarse subangular gravel, brown, moist (cobbles up to 0.4' in diameter make up ~10% of stockpile)
5		5.5				1			REMARK 1: Vacuum exploration down to depth of 5.5 feet.
	170.0	6	S1	1-1-1-2 (2)	24/5				S1 - Well-Graded SAND with Silt (SW-SM), fine to coarse, 10-15% fines, 10-15% fine to coarse subangular gravel, dark brown, moist (possible soil vacuum backfill)
		8	S2	1-2-4-7 (6)	24/3			8.0 169.0	S2 - Well-Graded SAND with Silt (SW-SM), fine to coarse, 10-15% fines, 5-10% fine subangular gravel, light brown, moist
10		10	S3	7-6-7-7 (13)	24/13				S3 - Poorly Graded SAND with Silt (SP-SM), fine to coarse, ~10% fines, 0-5% fine subangular gravel, orange, moist
	165.0	12	S4	10-12-13-12 (25)	24/14				S4 - Silty SAND (SM), fine to medium, ~15% fines, grey to light brown, wet
15		14	S5	5-8-9-14 (17)	24/17				S5 - Well-Graded SAND with Silt (SW-SM), fine to coarse, 10-15% fines, 0-5% fine to coarse subangular gravel, trace of varves of silt, orange, wet
	160.0	16					Sand and Gravel		
20		19	S6	7-8-11-19 (19)	24/15	2			REMARK 2: At a depth of 19 feet, driller poured water into auger before removing plug to prevent possible quick condition. S6 - Silty SAND (SM), fine to medium, 20-25% fines, brown to grey, wet
	155.0	21							
		24				3			REMARK 3: Drill chattering observed at a depth of 23 feet.
25		24	S7	24-38-31-36 (69)	24/18				S7 - Silty SAND with Gravel (SM), fine to coarse, 15-20% fines, 30-35% fine to coarse subangular gravel, trace of weathered rock, brown to grey, moist
	150.0	26						26.0 151.0	Bottom of borehole at 26.0 feet. Backfilled with drill cuttings and 2 bags of gravel.

GENERAL NOTES:
1. The ground surface elevation was interpolated to the nearest foot from drawing titled "Weston, Route 20 / Wellesley Street, Soil Boring Locations," prepared by Vanasse Hangen Brustlin, Inc., plotted on August 7, 2024, and provided to LGCI by Vanasse Hangen Brustlin, Inc., via e-mail on August 7, 2024.

BORING LOG — B-2

LGCI Lahlaf Geotechnical Consulting, Inc. — PAGE 1 OF 1

CLIENT: Vanasse Hangen Brustlin, Inc. **PROJECT NAME:** Proposed Mast Arms and Retaining Wall
LGCI PROJECT NUMBER: 2405 **PROJECT LOCATION:** Weston, MA

DATE STARTED: 7/14/24 **DATE COMPLETED:** 7/16/24
BORING LOCATION: NE corner of Wellesley St. / Route 20
COORDINATES: N 2959007 E 712724
SURFACE EI.: 178 ft. (see note 1) **TOTAL DEPTH:** 19.5 ft.
WEATHER: 70's / Cloudy
GROUNDWATER LEVELS:
▽ **DURING DRILLING:** 14.0 ft. / El. 164.0 ft. Based on sample moisture
▼ **AT END OF DRILLING:** 15.0 ft. / El. 163.0 ft.
▽ **OTHER:** -

DRILLING SUBCONTRACTOR: Soil X, Corp.
DRILLING FOREMAN: Edwin Fajardo
DRILLING METHOD: Hollow Stem Auger (4-1/4" I.D.)
DRILL RIG TYPE/MODEL: Diedrich D-70 Turbo ATV
HAMMER TYPE: Automatic
HAMMER WEIGHT: 140 lb. **HAMMER DROP:** 30 in.
SPLIT SPOON DIA.: 1.375 in. I.D., 2 in. O.D.
CORE BARREL SIZE: NA
LOGGED BY: MBH **CHECKED BY:** EP

Depth (ft.)	El. (ft.)	Sample Interval (ft.)	Sample Number	Blow Counts (N Value)	Pen./Rec. (in.)	Remark	Strata	Depth (ft.)	Material Description
		0.8					Topsoil	0.8 177.2	Top 10": Topsoil
	175.0		G1		44/44		Fill		G1 - Well-Graded SAND with Silt and Gravel (SW-SM), fine to coarse, ~10% fines, 15-20% fine to coarse subangular gravel, brown to dark brown, moist (cobbles up to 1' in diameter make up ~25% of the stockpile, boulders make up ~10% of the stockpile)
5		4.5 5				1			REMARK 1: Vacuum exploration down to depth of 4.5 feet.
	170.0	7	S1	12-11-24-9 (35)	24/10				S1 - Silty SAND with Gravel (SM), fine, 20-25% fines, 15-20% fine to coarse subangular gravel, grey, moist
		8.7	S2	18-27-40-60/2" (67)	20/9				S2 - Poorly Graded SAND with Silt and Gravel (SP-SM), fine to medium, trace coarse, 10-15% fines, 15-20% fine to coarse subangular gravel, brown, moist
10		9.8	S3	34-100/4" (100/4")	10/5				S3 - Similar to S2, 35-40% fine to coarse subangular gravel
	165.0	12	S4	26-50-50/2" (100/8")	14/7		Boulder	10.0 168.0	
15		13.2 14	S5	58-31-24-18 (55)	24/0	2	Fill	11.5 166.5	S4 - Similar to S2
	160.0	16	S6	12-13-13-80/3" (26)	21/12				REMARK 2: Attempted to advance 3 inch split spoon. Refusal on possible rock. No recovery. S5 - No recovery, wet
		17.8 19	S7	101/3"	3/3	3	Sand and Gravel	14.0 162.0	S6 - Silty SAND with Gravel (SM), fine to coarse, 25-30% fines, 25-30% fine to coarse subangular gravel, olive grey, wet (possible weathered rock)
20								19.5 156.5	S7 - Similar to S6, trace of weathered rock REMARK 3: At a depth of 19.5 feet, auger refusal on possible rock. Bottom of borehole at 19.5 feet. Backfilled with drill cuttings.
	155.0								
25									

GENERAL NOTES:
1. The ground surface elevation was interpolated to the nearest foot from drawing titled "Weston, Route 20 / Wellesley Street, Soil Boring Locations," prepared by Vanasse Hangen Brustlin, Inc., plotted on August 7, 2024, and provided to LGCI by Vanasse Hangen Brustlin, Inc., via e-mail on August 7, 2024.

BORING LOG — B-3

LGCI Lahlaf Geotechnical Consulting, Inc. — PAGE 1 OF 1

CLIENT: Vanasse Hangen Brustlin, Inc. **PROJECT NAME:** Proposed Mast Arms and Retaining Wall
LGCI PROJECT NUMBER: 2405 **PROJECT LOCATION:** Weston, MA

DATE STARTED: 7/14/24 **DATE COMPLETED:** 7/16/24
BORING LOCATION: SE corner of Wellesley St. / Route 20
COORDINATES: N 2958898 E 712744
SURFACE EI.: 179 ft. (see note 1) **TOTAL DEPTH:** 26 ft.
WEATHER: 80's / Night
GROUNDWATER LEVELS:
▽ **DURING DRILLING:** 14.0 ft. / El. 165.0 ft. Based on sample moisture
▼ **AT END OF DRILLING:** 13.0 ft. / El. 166.0 ft.
▽ **OTHER:** -

DRILLING SUBCONTRACTOR: Soil X, Corp.
DRILLING FOREMAN: Edwin Fajardo
DRILLING METHOD: Hollow Stem Auger (4-1/4" I.D.)
DRILL RIG TYPE/MODEL: Diedrich D-70 Turbo ATV
HAMMER TYPE: Automatic
HAMMER WEIGHT: 140 lb. **HAMMER DROP:** 30 in.
SPLIT SPOON DIA.: 1.375 in. I.D., 2 in. O.D.
CORE BARREL SIZE: NA
LOGGED BY: MBH **CHECKED BY:** EP

Depth (ft.)	El. (ft.)	Sample Interval (ft.)	Sample Number	Blow Counts (N Value)	Pen./Rec. (in.)	Remark	Strata	Depth (ft.)	Material Description
							Topsoil	1.0 178.0	Top 12": Topsoil
	175.0	1	G1		54/54		Fill		G1 - Well-Graded SAND with Silt and Gravel (SW-SM), fine to coarse, ~10% fines, 25-30% fine to coarse subangular gravel, trace of roots, dark brown, moist (cobbles up to 0.6' in diameter make up 5-10% of stockpile)
5		5.5				1			REMARK 1: Vacuum exploration down to depth of 5.5 feet.
	170.0	6 8	S1	7-11-12-10 (23)	24/2				S1 - Similar to G1
			S2	14-15-16-16 (31)	24/20			8.0 171.0	S2 - Well-Graded SAND with Silt and Gravel (SW-SM), fine to coarse, 5-10% fines, 15-20% fine to coarse subangular gravel, light brown to brown, moist
10		10	S3	20-43-57-44/3" (100)	21/14	2			S3 - Similar to S2, ~30% fine to coarse subangular gravel
	165.0	11.8							REMARK 2: Drill chattering observed at a depth of 11 feet.
15		14	S4	65-33-21-27 (54)	24/6				S4 - Silty SAND with Gravel (SM), fine to coarse, ~20% fines, 5-10% fine to coarse subangular gravel, trace of weathered rock, brown to grey, wet
	160.0	16					Sand and Gravel		
20		19	S5	20-21-27-32 (48)	24/15				S5 - Silty SAND with Gravel (SM), fine to coarse, 20-25% fines, 15-20% fine to coarse subangular gravel, trace of weathered rock, grey, wet
	155.0	21							
25		24	S6	58-46-44-62 (90)	24/24				S6 - Similar to S5
	150.0	26						26.0 153.0	Bottom of borehole at 26.0 feet. Backfilled with drill cuttings.

GENERAL NOTES:
1. The ground surface elevation was interpolated to the nearest foot from drawing titled "Weston, Route 20 / Wellesley Street, Soil Boring Locations," prepared by Vanasse Hangen Brustlin, Inc., plotted on August 7, 2024, and provided to LGCI by Vanasse Hangen Brustlin, Inc., via e-mail on August 7, 2024.

BORING LOG — B-4

LGCI Lahlaf Geotechnical Consulting, Inc. — PAGE 1 OF 1

CLIENT: Vanasse Hangen Brustlin, Inc. **PROJECT NAME:** Proposed Mast Arms and Retaining Wall
LGCI PROJECT NUMBER: 2405 **PROJECT LOCATION:** Weston, MA

DATE STARTED: 7/14/24 **DATE COMPLETED:** 7/15/24
BORING LOCATION: SW corner of Wellesley St. / Route 20
COORDINATES: N 2958900 E 712666
SURFACE EI.: 178 ft. (see note 1) **TOTAL DEPTH:** 26 ft.
WEATHER: 70's / Sunny
GROUNDWATER LEVELS:
▽ **DURING DRILLING:** 14.0 ft. / El. 164.0 ft. Based on sample moisture
▼ **AT END OF DRILLING:** 16.0 ft. / El. 162.0 ft.
▽ **OTHER:** -

DRILLING SUBCONTRACTOR: Soil X, Corp.
DRILLING FOREMAN: Edwin Fajardo
DRILLING METHOD: Hollow Stem Auger (4-1/4" I.D.)
DRILL RIG TYPE/MODEL: Diedrich D-70 Turbo ATV
HAMMER TYPE: Automatic
HAMMER WEIGHT: 140 lb. **HAMMER DROP:** 30 in.
SPLIT SPOON DIA.: 1.375 in. I.D., 2 in. O.D.
CORE BARREL SIZE: NA
LOGGED BY: MBH **CHECKED BY:** EP

Depth (ft.)	El. (ft.)	Sample Interval (ft.)	Sample Number	Blow Counts (N Value)	Pen./Rec. (in.)	Remark	Strata	Depth (ft.)	Material Description
		0.8					Topsoil	0.8 177.2	Top 10": Topsoil
	175.0		G1		56/56		Fill		G1 - Well-Graded SAND with Silt and Gravel (SW-SM), fine to coarse, ~10% fines, 15-20% fine to coarse subangular gravel, trace of roots, dark brown, moist (cobbles up to 0.3' in diameter make up 5% of stockpile)
5		5.5				1			REMARK 1: Vacuum exploration down to depth of 5.5 feet.
	170.0	6 8	S1	8-7-6-9 (13)	24/10				S1 - Well-Graded SAND with Silt and Gravel (SW-SM), fine to coarse, 10-15% fines, ~15% fine subangular gravel, light brown, moist
			S2	11-9-17-14 (26)	24/10				S2 - Well-Graded SAND with Silt (SW-SM), fine to coarse, ~10% fines, 5-10% mostly fine subangular gravel, brown, moist
10		10	S3	13-9-5-5 (14)	24/3				S3 - Similar to S2
	165.0	12						12.0 166.0	
			S4	4-5-5-6 (10)	24/12		Peat	12.5	S4 - PEAT, amorphous, mostly fine, 45-50% fines, dark brown to black, moist
15		14	S5	2-6-12-11 (18)	24/6	2		14.0 164.0	REMARK 2: Drill chattering observed from a depth of 14 feet. Possible strata change.
	160.0	16	S6	13-7-9-11 (16)	24/10				S5 - Silty SAND with Gravel (SM), fine to coarse, ~20% fines, 35-40% fine to coarse subangular gravel, trace of weathered rock, grey, wet
		18							S6 - Well-Graded SAND with Silt and Gravel (SW-SM), fine to coarse, 5-10% fines, 20-25% fine to coarse subangular gravel, brown, wet
20		19	S7	11-11-12-12 (23)	24/12		Sand and Gravel		S7 - Similar to S6
	155.0	21							
		24							
25			S8	15-15-25-23 (40)	24/24				S8 - Well-Graded SAND with Silt and Gravel (SW-SM), fine to coarse, 10-15% fines, 30-35% fine to subangular gravel, trace of weathered rock, brown, wet
	150.0	26						26.0 152.0	Bottom of borehole at 26.0 feet. Backfilled with drill cuttings and 1 bag of gravel.

GENERAL NOTES:
1. The ground surface elevation was interpolated to the nearest foot from drawing titled "Weston, Route 20 / Wellesley Street, Soil Boring Locations," prepared by Vanasse Hangen Brustlin, Inc., plotted on August 7, 2024, and provided to LGCI by Vanasse Hangen Brustlin, Inc., via e-mail on August 7, 2024.

BORING LOG — B-5

LGCI Lahlaf Geotechnical Consulting, Inc. — PAGE 1 OF 1

CLIENT: Vanasse Hangen Brustlin, Inc. **PROJECT NAME:** Proposed Mast Arms and Retaining Wall
LGCI PROJECT NUMBER: 2405 **PROJECT LOCATION:** Weston, MA

DATE STARTED: 7/14/24 **DATE COMPLETED:** 7/15/24
BORING LOCATION: North of UPL #1
COORDINATES: N 2958561 E 712698
SURFACE EI.: 193 ft. (see note 1) **TOTAL DEPTH:** 10 ft.
WEATHER: 70's / Raining
GROUNDWATER LEVELS:
▽ **DURING DRILLING:** NE
▼ **AT END OF DRILLING:** NE
▽ **OTHER:** -

DRILLING SUBCONTRACTOR: Soil X, Corp.
DRILLING FOREMAN: Edwin Fajardo
DRILLING METHOD: Hollow Stem Auger (4-1/4" I.D.)
DRILL RIG TYPE/MODEL: Diedrich D-70 Turbo ATV
HAMMER TYPE: Automatic
HAMMER WEIGHT: 140 lb. **HAMMER DROP:** 30 in.
SPLIT SPOON DIA.: 1.375 in. I.D., 2 in. O.D.
CORE BARREL SIZE: NA
LOGGED BY: MBH **CHECKED BY:** EP

Depth (ft.)	El. (ft.)	Sample Interval (ft.)	Sample Number	Blow Counts (N Value)	Pen./Rec. (in.)	Remark	Strata	Depth (ft.)	Material Description
		0.7					Asphalt	0.7 192.3	Top 8": Asphalt
	190.0		G1		22/22		Fill	1.5 191.5	G1 - Well-Graded SAND with Silt and Gravel (SW-SM), fine to coarse, ~10% fines, 20-25% fine to coarse subangular gravel, dark brown to brown, moist (cobbles with 1' in diameter makeup 25% of stockpile)
5		2.5 5				1			REMARK 1: Vacuum exploration down to depth of 2.5 feet. Drillers used a jack hammer to break apart boulder.
	185.0	5.8	S1	43-82/4" (82/4")	10/10	2	Boulder	7.0 186.0	REMARK 2: 4" Auger refusal at depth of 3.5 feet on possible rock or boulder. Advanced 3" solid core auger.
10		9 9.7	S2	76-50/2" (50/2")	8/5	3 4 5	Weathered Rock	10.0 183.0	S1 - Well-Graded SAND with Silt and Gravel (SW-SM), fine to coarse, ~10% fines, 20-25% fine to coarse subangular gravel, grey to white, moist REMARK 3: 3" Solid auger chattering on possible weathered rock or rock at a depth of 8 feet. REMARK 4: 3" Solid auger difficulty at a depth of 9 feet. Split spoon sample attempted. S2 - Mostly powdered rock, 1" weathered rock, possible auger cuttings REMARK 5: 3" Solid auger refusal at a depth of 10 feet on possible rock. Borehole terminated. Bottom of borehole at 10.0 feet. Backfilled with drill cuttings.
	180.0								
15									
	175.0								
20									
	170.0								
25									

GENERAL NOTES:
1. The ground surface elevation was interpolated to the nearest foot from drawing titled "Weston, Route 20 / Wellesley Street, Soil Boring Locations," prepared by Vanasse Hangen Brustlin, Inc., plotted on August 7, 2024, and provided to LGCI by Vanasse Hangen Brustlin, Inc., via e-mail on August 7, 2024.

BORING LOG — B-6

LGCI Lahlaf Geotechnical Consulting, Inc. — PAGE 1 OF 1

CLIENT: Vanasse Hangen Brustlin, Inc. **PROJECT NAME:** Proposed Mast Arms and Retaining Wall
LGCI PROJECT NUMBER: 2405 **PROJECT LOCATION:** Weston, MA

DATE STARTED: 7/14/24 **DATE COMPLETED:** 7/17/24
BORING LOCATION: North of UPL #13-3
COORDINATES: N 2958627 E 712692
SURFACE EI.: 193 ft. (see note 1) **TOTAL DEPTH:** 18.5 ft.
WEATHER: 70's / Raining
GROUNDWATER LEVELS:
▽ **DURING DRILLING:** NE
▼ **AT END OF DRILLING:** NE
▽ **OTHER:** -

DRILLING SUBCONTRACTOR: Soil X, Corp.
DRILLING FOREMAN: Edwin Fajardo
DRILLING METHOD: Hollow Stem Auger (4-1/4" I.D.)
DRILL RIG TYPE/MODEL: Diedrich D-70 Turbo ATV
HAMMER TYPE: Automatic
HAMMER WEIGHT: 140 lb. **HAMMER DROP:** 30 in.
SPLIT SPOON DIA.: 1.375 in. I.D., 2 in. O.D.
CORE BARREL SIZE: NA
LOGGED BY: MBH **CHECKED BY:** EP

Depth (ft.)	El. (ft.)	Sample Interval (ft.)	Sample Number	Blow Counts (N Value)	Pen./Rec. (in.)	Remark	Strata	Depth (ft.)	Material Description
							Asphalt	1.0 192.0	Top 12": Asphalt
	190.0	1	G1		36/36		Fill		G1 - Well-Graded SAND with Silt and Gravel (SW-SM), fine to coarse, 10-15% fines, 15-20% fine to coarse subangular gravel, dark brown, moist (cobbles up to 1' in diameter make up 30-35% of stockpile)
5		4 5				1		3.0 190.0	REMARK 1: Vacuum exploration down to 4 feet.
	185.0	5.8 7	S1	25-32-29-80/3" (81)	21/12	2	Sand and Gravel	4.6 189.4	S1 - Well-Graded SAND with Silt (SW-SM), fine to coarse, ~10% fines, 10-15% fine to coarse subangular gravel, brown, moist REMARK 2: Drill chattering observed on possible boulders and cobbles between depths of 5 and 7 feet.
10		9	S2	25-32-32-16 (64)	24/10		Boulder	7.0 187.0	
	180.0	11	S3	12-15-15-16 (30)	24/8			8.0 186.0	S2 - Well-Graded SAND with Silt and Gravel (SW-SM), fine to coarse, ~10% fines, 30-35% fine subangular gravel, brown, moist
15		13 14	S4	21-19-23-37 (42)	24/2				S3 - Similar to S1
	175.0	16	S5	50-36-34-52 (70)	24/2		Sand and Gravel		S4 - Poorly Graded SAND with Silt (SP-SM), fine to medium, ~10% fines, light brown, moist (little recovery) (possible weathered rock)
20		18.5	S6	100/0"	0/0	3			S5 - Poorly Graded GRAVEL with Silt and Sand (GP-GM), mostly coarse, subangular to angular, ~10% fines, 15-20% fine to coarse sand, grey, moist (little recovery) (possible weathered rock)
	170.0							18.5 174.5	REMARK 3: Auger and split spoon refusal on possible rock at a depth of 18.5 feet. Advanced 3" solid core auger, refusal on possible rock. S6 - No recovery Bottom of borehole at 18.5 feet. Backfilled using drill cuttings. Roadway restored using cold patch asphalt.
25									

GENERAL NOTES:
1. The ground surface elevation was interpolated to the nearest foot from drawing titled "Weston, Route 20 / Wellesley Street, Soil Boring Locations," prepared by Vanasse Hangen Brustlin, Inc., plotted on August 7, 2024, and provided to LGCI by Vanasse Hangen Brustlin, Inc., via e-mail on August 7, 2024.

WESTON
ROUTE 20 / WELLESLEY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	HSI-0036(022)X	5	71
PROJECT FILE NO.	608940		

BORING LOGS

BORING NOTES:

1. LOCATION OF BORING SHOWN ON THE PLANS THUS: ⊕
2. BORINGS TAKEN FOR THE PURPOSES OF DESIGN AND SHOW CONDITIONS AT THE BORING POINTS ONLY, BUT DO NOT NECESSARILY SHOW THE NATURE OF THE MATERIALS TO BE ENCOUNTERED DURING CONSTRUCTION.
3. WATER LEVELS SHOWN ON THE BORING LOGS WERE OBSERVED AT THE TIME OF TAKING BORINGS AND DO NOT NECESSARILY SHOW THE THROUGH GROUND WATER LEVEL.
4. FIGURES TO THE LEFT OF COLUMNS INDICATE DEPTH BELOW SURFACE AT THE BORING POINT.
5. FIGURES IN THE COLUMNS INDICATE NUMBER OF BLOWS PRODUCED BY A 30" FALL OF 140 POUND MASS HAMMER REQUIRED TO DRIVE 2" I.D. SPOON 1 FOOT.
6. BORING SAMPLES TAKEN BETWEEN 07/14/2024 AND 07/17/2024.
7. BORING SAMPLE ARE STORED AT A LGCI LAB FACILITY LOCATED AT 100 CHELMSFORD ROAD, SUITE 2 IN BILLERICA, MA.
   THE CONTRACTOR MAY EXAMINE THE SOIL AND ROCK SAMPLES BY CONTACTING MASSDOT GEOTECHNICAL SECTION AT 10 PARK PLAZA, BOSTON, MA.
8. BORING CONTRACTOR:
   SOIL X, CORP.
   148 PIONEER DRIVE, LEOMINSTER, MA 01453
   PHONE: 978-840-0391
   EMAIL: INFO@SOILXCORP.COM
9. THE VERTICAL DATUM SHOWN HEREON REFERENCES NAVD88.

WESTON
ROUTE 20 / WELLESLEY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	HSI-0036(022)X	6	71
PROJECT FILE NO.	608940		

BASELINE TIE PLANS

14360_HD(BASELINE TIE).DWG Plotted on 30-Jan-2026 12:25 PM

ROUTE 20 CONSTRUCTION BASELINE DATA

NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L1	100+00.00	2958933.5236	712144.7166		N82°04'15"E 43.03'	100+43.03	2958939.4599	712187.3373
C1	100+43.03	2958939.4599	712187.3373	R=2200.00' Δ=8°16'18" L=317.61' T=159.08'		103+60.64	2958960.4544	712503.9749
C2	103+60.64	2958960.4544	712503.9749	R=7501.00' Δ=3°31'23" L=461.21' T=230.68'		108+21.85	2958971.8744	712964.9748
C3	108+21.85	2958971.8744	712964.9748	R=1000.00' Δ=17°39'51" L=308.30' T=155.38'		111+30.15	2959035.7855	713265.3283
C4	111+30.15	2959035.7855	713265.3283	R=668.00' Δ=23°53'47" L=278.60' T=141.36'		114+08.76	2959078.5597	713538.5904

BOSTON POST RD CONSTRUCTION BASELINE DATA

NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
C5	10+00.00	2959200.5909	712240.2942	R=475.00' Δ=50°52'04" L=421.71' T=225.89'		14+21.71	2959096.4307	712634.7691
C6	14+21.71	2959096.4307	712634.7691	R=120.00' Δ=21°27'43" L=44.95' T=22.74'		14+66.66	2959061.7236	712662.9185
C7	14+66.66	2959061.7236	712662.9185	R=224.00' Δ=26°44'14" L=104.53' T=53.23'		15+71.19	2958961.6425	712689.6310

WELLESLEY ST CONSTRUCTION BASELINE DATA

NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L2	18+50.00	2958398.3931	712705.4746		N4°04'07"W 195.60'	20+45.60	2958593.4984	712691.5964
C8	20+45.60	2958593.4984	712691.5964	R=500.00' Δ=3°57'36" L=34.56' T=17.29'		20+80.16	2958628.0263	712690.3372
L3	20+80.16	2958628.0263	712690.3372		N0°06'31"W 327.88'	24+08.04	2958955.9079	712689.7153
C9	24+08.04	2958955.9079	712689.7153	R=224.00' Δ=1°28'01" L=5.74' T=2.87'		24+13.77	2958961.6425	712689.6310

WINSOR WAY CONSTRUCTION BASELINE DATA

NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
C10	0+00.00	2958764.3418	712690.0786	R=88.00' Δ=38°16'03" L=58.77' T=30.53'		0+58.77	2958804.8352	712731.1666
L4	0+58.77	2958804.8352	712731.1666		N26°17'02"E 44.32'	1+03.10	2958844.5748	712750.7932
C11	1+03.10	2958844.5748	712750.7932	R=63.00' Δ=106°59'35" L=117.64' T=85.13'		2+20.74	2958862.5446	712850.4676
C12	2+20.74	2958862.5446	712850.4676	R=120.00' Δ=9°51'50" L=20.66' T=10.36'		2+41.40	2958847.1608	712864.2181
L5	2+41.40	2958847.1608	712864.2181		S36°51'34"E 78.60'	3+20.00	2958784.2724	712911.3663

SURVEY TRAVERSE TABLE

POINT #	NORTHING	EASTING	ELEVATION	RAW DESCRIPTION
1	2958988.4385	712746.7513	179.140	MTRV DRILL HOLE
2	2958981.1282	712470.3937	176.170	MTRV MAGNAIL
3	2959157.4209	712584.2055	179.610	MTRV MAGNAIL
4	2958959.7222	713048.1966	181.030	MTRV HUB AND TAC
5	2958839.1936	712882.9947	184.540	MTRV MAGNAIL
6	2958783.1444	712703.7467	186.290	MTRV MAGNAIL
8	2958524.3393	712684.9064	191.690	MTRV MAGNAIL
9	2959105.4624	713475.6336		MTRV DRILL HOLE
10	2958923.8899	711926.0849		MTRV MAG NAIL

1898 SHLO #289 CONSTRUCTION BASELINE DATA

NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
C13	57+48.03	2958977.1347	712813.9428	R=148.86' Δ=37°06'28" L=96.41' T=49.96'		58+44.44	2959016.0191	712727.5572
L6	58+44.44	2959016.0191	712727.5572		N47°07'35"W 102.05'	59+46.49	2959085.4521	712652.7691
C14	59+46.49	2959085.4521	712652.7691	R=476.14' Δ=53°30'58" L=444.73' T=240.08'		63+91.22	2959204.4589	712240.8775
L7	63+91.22	2959204.4589	712240.8775		S79°21'25"W 225.87'	66+17.09	2959162.7426	712018.8933
C15	66+17.09	2959162.7426	712018.8933	R=509.42' Δ=21°03'01" L=187.16' T=94.65'		68+04.25	2959162.3594	711832.7845
L8	68+04.25	2959162.3594	711832.7845		N79°35'35"W 305.23'	71+09.48	2959217.4951	711532.5756
L9	71+09.48	2959217.4951	711532.5756		N86°51'35"W 410.39'	75+19.87	2959239.9758	711122.8018

1931 SHLO #2746 CONSTRUCTION BASELINE DATA

NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L10	57+54.64	2958963.2137	712812.5582		S86°53'04"W 472.02'	62+26.66	2958937.5585	712341.2360
C16	62+26.66	2958937.5585	712341.2360	R=3161.11' Δ=9°10'40" L=506.35' T=253.72'		67+33.01	2958869.7475	711839.9932
L11	67+33.01	2958869.7475	711839.9932		S77°42'24"W 594.37'	73+27.38	2958743.1950	711259.2522

1931 SHLO #2747 CONSTRUCTION BASELINE DATA

NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L12	43+18.98	2959043.7542	714228.8610		N86°56'51"W 736.20'	50+55.18	2959082.9560	713493.7055
C17	50+55.18	2959082.9560	713493.7055	R=414.48' Δ=31°44'50" L=229.66' T=117.86'		52+84.84	2959032.6419	713272.6252
C18	52+84.84	2959032.6419	713272.6252	R=452.20' Δ=25°34'45" L=201.88' T=102.65'		54+86.72	2958977.7757	713080.0822
L13	54+86.72	2958977.7757	713080.0822		S86°53'04"W 267.92'	57+54.64	2958963.2137	712812.5582

WESTON
ROUTE 20 / WELLESLEY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	HSI-0036(022)X	7	71
PROJECT FILE NO.	608940		

BASELINE TIE PLANS

14360_HD(BASELINE TIE).DWG Plotted on 30-Jan-2026 12:26 PM

BOSTON POST ROAD (PUBLIC)

1951 TOWN LAYOUT SHOWN ON SHLO #3870

SBCL (FND)

+91.22 PT

N10°38'35"W 3.69'

10+00 BOSTON POST RD CONSTR ℄ = 63+92.51 1898 SHLO #289 RECORD ℄

PROP BOSTON POST RD CONST. ℄

L7 C5 C14

END OF WORK LIMIT OF PAVING STA 13+00.00 N 2959162.3317 E 712532.8417

JEFFEREY OTTO PLANK & JANE C. PLANK
9 HEMLOCK RD
023_056_000
BOOK 58041 PAGE 468

3
N: 2959157.421'
E: 712584.205'
EL: 179.610'
MAGNAIL
60+43.10
R=16.49

BENCHMARK X-CUT ON HYDRANT BOLT
EL=181.22'

7
N: 2959154.647'
E: 712683.857'
EL: 172.240'
HUB AND TACK

GREGORY I. & CATHY T. GOLDMAN
293 BOSTON POST RD
028_010_000
BOOK 59214 PAGE 19

LEDGE OUTCROP
BIT. WALK
VGC
BIT. CURB
FIELDSTONE RET. WALL
BOULDERS
STONE MORTAR RET. WALLS
SURVEY TRAVERSE

N84°32'19"W 51.60'

20.10'

N 2959162.3317
E 712532.8417

S35°25'01"E 58.11'

S43°19'31"E 234.71'

N 2959110.0664
E 712617.8797

PCC +21.71

SURVEY TRAVERSE PC +44.08

1931 SHLO #2746

PCC +66.66

FIELDSTONE WALL

BENCHMARK DISK: 58 BF
EL=178.94'
MASSDOT GEODETIC SURVEY CONTROL POINT 58 BF
STA 105+97.78, 24.30' LT

1898 SHLO #289

N 43°32' W (1898) BASELINE #289

1
N: 2958988.438'
E: 712746.751'
EL: 179.140'
DRILL HOLE
58+18.98
R=28.76

CONTINUED ON SHEET NO. 8

BOSTON POST ROAD (ROUTE 20) (PUBLIC)

CBCL (FND)

10
N: 2958923.890'
E: 711926.085'
EL: '
MAG NAIL
66+38.43
R=36.00

N83°59'49"E 547.31'

N 2958933.5236
E 712144.7166

100

L1

PC +43.03

N87°28'37"E, 218.84'

N73°19'29"E, 78.75'

C16

N49°33'01"E, 24.76'

36.00

MATCH LINE A-A

100+00 ROUTE 20 CONSTR ℄ = 64+22.44 1931 SHLO #2746 RECORD ℄

BEGINNING OF WORK LIMIT OF PAVING STA 100+60.00 N 2958941.7358 E 712204.1518

TOWN OF WESTON
SELECT BOARD
0 BOSTON POST RD
028_009_000
BOOK/PAGE UNKNOWN

2
N: 2958981.128'
E: 712470.394'
EL: 176.170'
MAGNAIL
60+95.33
R=36.49

CB (BROKEN) (FND)

1.67'
1.01'
368.19'

CB BROKEN (FND)

ST. PETER'S PARISH 320
BOSTON POST RD
028_008_000
BOOK 07445 PAGE 108

1951 SHLO #2768

L=262.82'
0.40'
L=0.13'
CBCL (FND)

BIT. WALK
VGC
SURVEY TRAVERSE
N88°29'05"E 276.45'

S51°59'18"W 34.34'

20.73'

S48°01'38"E 30.86'

N 2958959.9811
E 712443.3380

PRC +60.64

N 2958960.4922
E 712493.3343

N66°10'42"E, 39.64'

105+46.31 ROUTE 20 CONSTR ℄ = 15+71.19 BOSTON POST RD CONSTR ℄

N 2958961.7128
E 712693.3250

S63°25'27"W, 59.74'

S3°06'56"E, 5.11'

C2

C9

L10

PC +08.04

S62°35'29"E, 52.42'

25.50'

+04.12

N 2958964.3059
E 712793.2906

105+46.31 ROUTE 20 CONSTR ℄ = 24+13.77 WELLESLEY ST CONSTR ℄

105+46.31 ROUTE 20 CONSTR ℄= 58+77.47 1931 SHLO #2746 RECORD ℄

PC +43.03

C16

N49°33'01"E, 24.76'

MATCH LINE A-A

PC +26.66

1931 SHLO BASELINE #2746

N 82°39'50" (1931)

CONCRETE HEADWALL

FIELDSTONE RET. WALL

1951 SHLO #2768

N/F WESTON AFFORDABLE HOUSING TRUST FUND
0 WELLESLEY ST
028_104_000
BOOK 75586 PAGE 289

N11°49'52"E 209.75'

C11

PC +03.10

CONTINUED ON SHEET NO. 9

N

0 20 50 100

SCALE: 1" = 20'

WESTON
ROUTE 20 / WELLESLEY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	HSI-0036(022)X	8	71
PROJECT FILE NO.	608940		

BASELINE TIE PLANS

14360_HD(BASELINE TIE).DWG Plotted on 30-Jan-2026 12:26 PM

N

GREGORY I. & CATHY T. GOLDMAN
293 BOSTON POST RD
028_010_000
BOOK 59214 PAGE 19

9
N: 2959105.462'
E: 713475.634'
EL: '
DRILL HOLE
50+73.46
R=21.94

DH
SBDH
CBCL
MATCH LINE B-B
S56°42'58"W
54.59'
S63°57'14"E, 60.34'
N71°10'21"E
451.60'
26.50
PC
+55.18
S3°03'09"W
2.00'
L12
C17
C4
112
52
113
51
114
50
N 2959075.5031
E 713429.9968
N 2959078.9686
E 713529.8434
114+08.76
114+08.76 ROUTE 20 CONSTR ℄ =
50+10.12 1931 SHLO #2747 RECORD ℄

BOSTON POST ROAD (ROUTE 20) (PUBLIC)

N/F
TOWN OF WESTON
0 BOSTON POST RD
028_011_000
BOOK 12782 PAGE 45

END OF WORK
LIMIT OF PAVING
STA 111+00.00
N 2959025.6253
E 713237.0937

1931 SHLO #2747
MATCH LINE B-B
FIELDSTONE RETAINING WALL
VGC
CONC. WALK
N30°58'16"E, 11.89'
PRC +30.15
PRC
+84.84
111
112
53
EP
PROP ROUTE 20 CONST. ℄
SURVEY TRAVERSE
110
N71°10'21"E
451.60'
C18
54
CONC. CURB
BIT. DRIVE
STONE RET. WALL WITH STONE STEPS
N 2958987.1515
E 713092.1179
C3
109
PT
+86.72
55
L13
20.09
N58°00'53"E
51.78'
MB
BENCHMARK
LEFT OUTER CORNER OF
LOWEST STONE STEP
EL=182.46'

N/F
MULDOON, MARY EILEEN, TRUSTEE
280 BOSTON POST RD
028_081_000
BOOK 32499 PAGE 001

N/F
JAI KISHORE & MANU SIROHI
286 BOSTON POST RD
028_082_000
BOOK 68791 PAGE 180

4
N: 2958959.722'
E: 713048.197'
EL: 181.030'
HUB AND TAC
55+19.54
L=16.29

DH (FND)
0.60'
L=0.60'
L=468.08'

STONE WALL
BENCHMARK DISK: 58 BF
EL=178.94'
MASSDOT GEODETIC
SURVEY CONTROL POINT 58 BF
STA 105+97.78, 24.30' LT
1898 SHLO #289
CONTINUED ON SHEET NO. 7
(898)
#289
S20°43'37"E
177.71'
PT
+44.44
FIELDSTONE RET. WALL (END)
BIT. WALK
VGC
2.11'
L=0.43'
102.05'
1
N: 2958988.438'
E: 712746.751'
EL: 179.140'
DRILL HOLE
58+18.98
R=28.76
2.89'
L=11.72'
L=94.90'
57+48.03 1898 SHLO #289 RECORD ℄ =
57+52.50 1931 SHLO #2747 RECORD ℄
POST ℄
WOOD STOCKADE FENCE
CONC. WALK
S62°35'29"E, 52.42'
S84°33'30"E 302.81'
S63°25'27"W, 59.74'
25.50
C13
57+48.03
107
57
1931 SHLO BASELINE #2747
N 82°39'50" W (1931)
108
PCC +21.85
N 2958973.8312
E 712993.0511
N75°38'56"W
56.92'
N82°41'47"W, 2.01'
56
SURVEY TRAVERSE
C2
106
L10
+04.12
58
N 2958964.3059
E 712793.2906
57+54.64
57+54.64 1931 SHLO #2746 RECORD ℄ =
57+54.64 1931 SHLO #2747 RECORD ℄
VGC
209.75'
N11°49'52"E
S42°27'33"E
202.08'
BIT. CURB
EP
C11
2
PCC +00.74
PT +47.40
N67°00'28"W
20.40'
5
2958839.194'
712882.995'
EL: 184.540'
MAGNAIL
1
PC +03.10
CONTINUED ON SHEET NO. 9

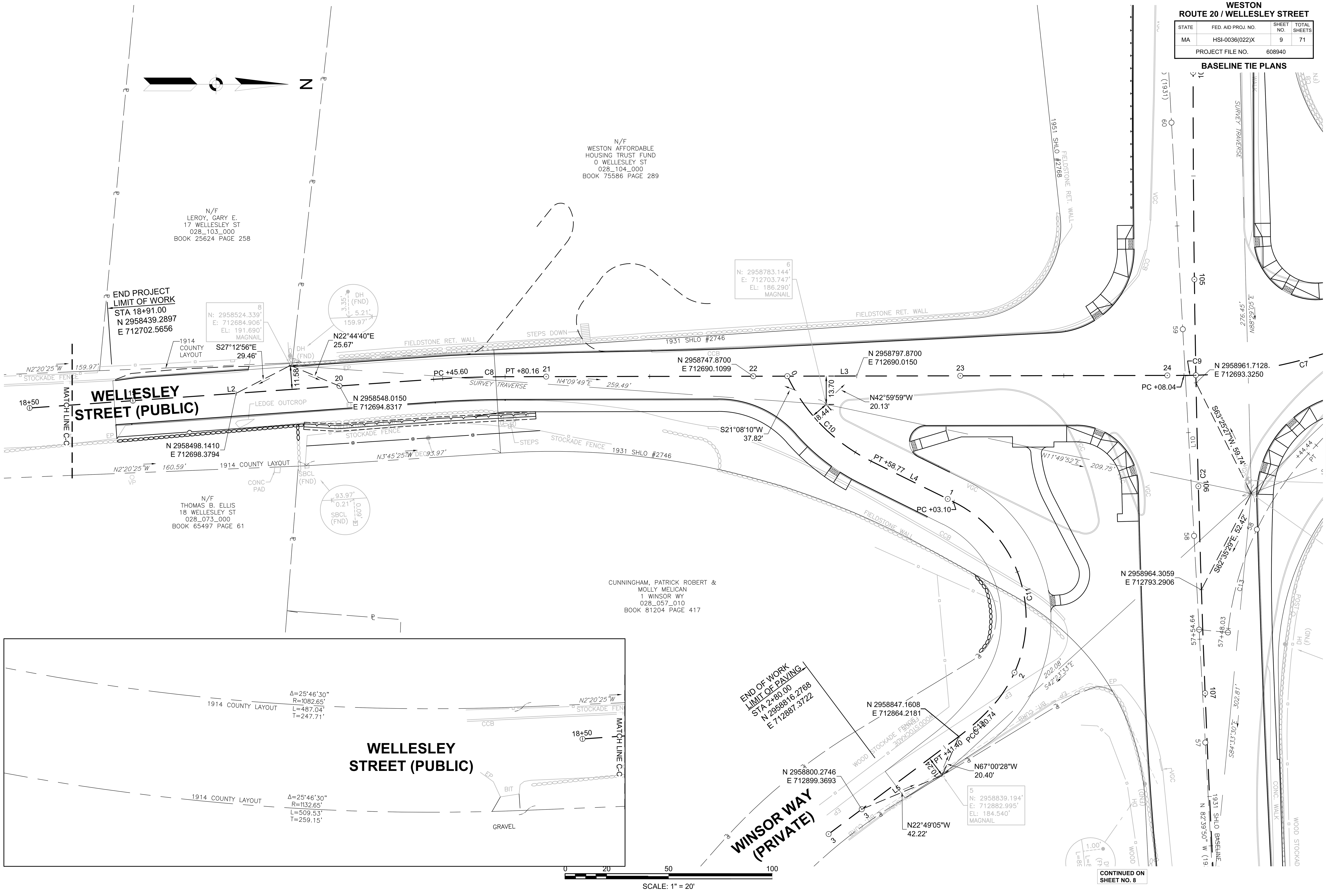
LAURA J. & DAVID EISEN
10 WINSOR WY
028_074_000
BOOK 80467 PAGE 408

0 20 50 100
SCALE: 1" = 20'

WESTON
ROUTE 20 / WELLESLEY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	HSI-0036(022)X	9	71
PROJECT FILE NO.	608940		

BASELINE TIE PLANS



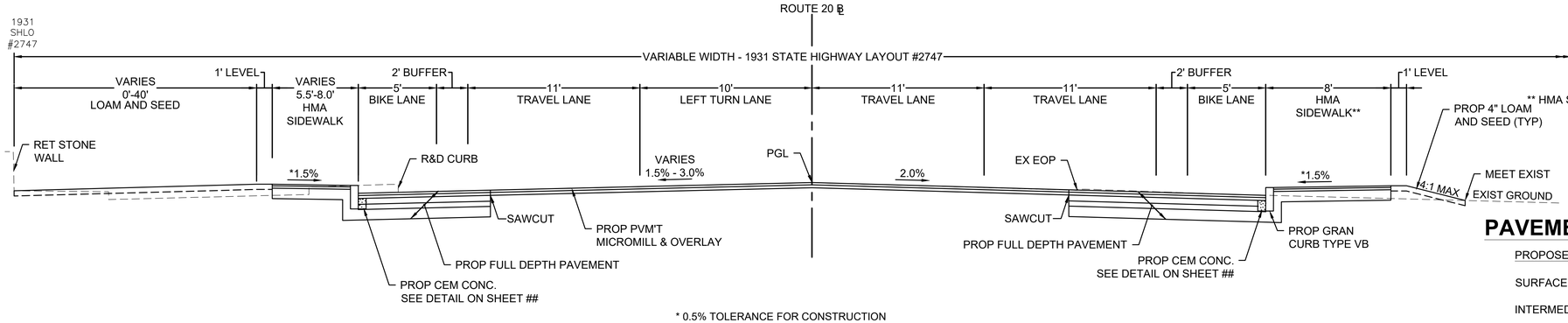
N
N/F
WESTON AFFORDABLE
HOUSING TRUST FUND
0 WELLESLEY ST
028_104_000
BOOK 75586 PAGE 289
N/F
LEROY, GARY E.
17 WELLESLEY ST
028_103_000
BOOK 25624 PAGE 258
END PROJECT
LIMIT OF WORK
STA 18+91.00
N 2958439.2897
E 712702.5656
WELLESLEY
STREET (PUBLIC)
MATCH LINE C-C
18+50
N 2958548.0150
E 712694.8317
N 2958498.1410
E 712698.3794
S27°12'56"E
29.46'
N22°44'40"E
25.67'
1914 COUNTY LAYOUT
FIELDSTONE RET. WALL
STEPS DOWN
1931 SHLO #2746
1951 SHLO #2768
STOCKADE FENCE
SURVEY TRAVERSE
N4°09'49"E 259.49'
PC +45.60
PT +80.16
N 2958747.8700
E 712690.1099
N 2958797.8700
E 712690.0150
N42°59'59"W
20.13'
S21°08'10"W
37.82'
PT +58.77
PC +03.10
N 2958961.7128
E 712693.3250
PC +08.04
N 2958964.3059
E 712793.2906
N/F
THOMAS B. ELLIS
18 WELLESLEY ST
028_073_000
BOOK 65497 PAGE 61
CUNNINGHAM, PATRICK ROBERT &
MOLLY MELICAN
1 WINSOR WY
028_057_010
BOOK 81204 PAGE 417
END OF WORK
LIMIT OF PAVING
STA 2+80.00
N 2958816.2768
E 712887.3722
N 2958847.1608
E 712864.2181
N 2958800.2746
E 712899.3693
N67°00'28"W
20.40'
N22°49'05"W
42.22'
WINSOR WAY
(PRIVATE)
CONTINUED ON
SHEET NO. 7
CONTINUED ON
SHEET NO. 8
Δ=25°46'30"
R=1082.65'
L=487.04'
T=247.71'
Δ=25°46'30"
R=1132.65'
L=509.53'
T=259.15'
SCALE: 1" = 20'

14360_HD(BASELINE TIE).DWG
Plotted on 30-Jan-2026 12:26 PM

WESTON
ROUTE 20 / WELLESLEY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	HSI-0036(022)X	10	71
PROJECT FILE NO.	608940		

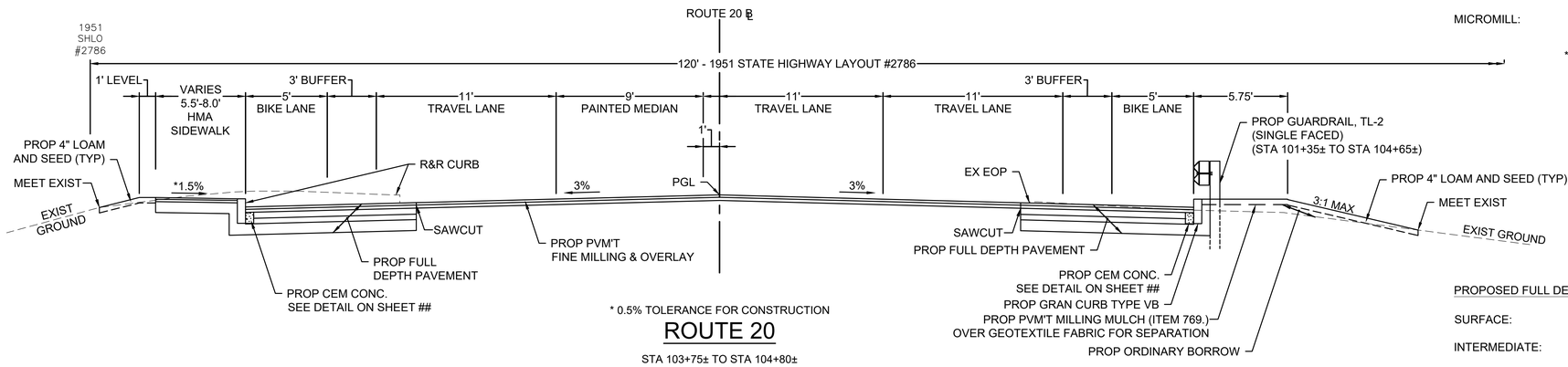
TYPICAL SECTIONS



* 0.5% TOLERANCE FOR CONSTRUCTION

ROUTE 20

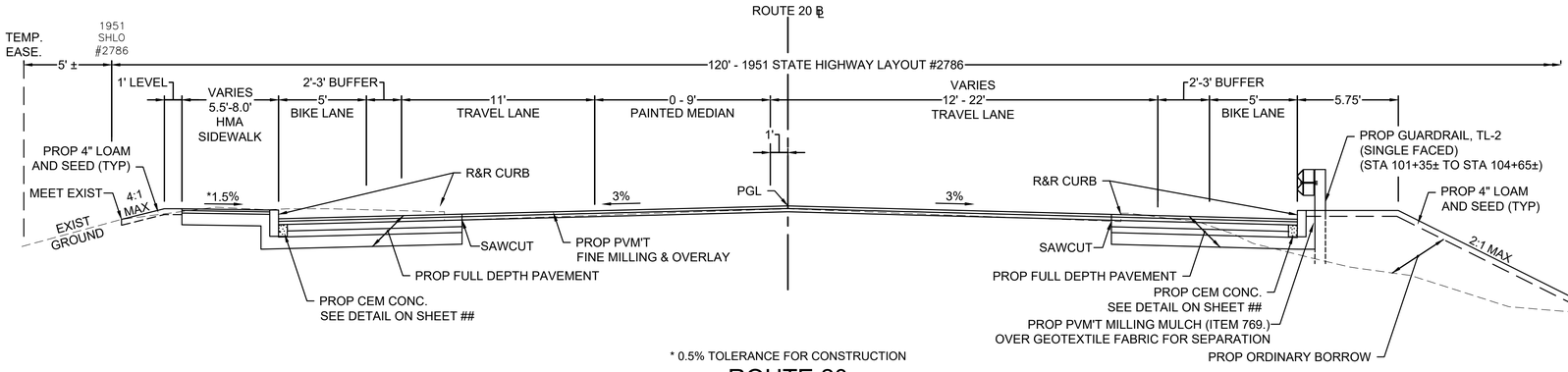
STA 106+00± TO STA 107+00±
NTS



* 0.5% TOLERANCE FOR CONSTRUCTION

ROUTE 20

STA 103+75± TO STA 104+80±
NTS



* 0.5% TOLERANCE FOR CONSTRUCTION

ROUTE 20

STA 100+60± TO STA 103+75±
NTS

PAVEMENT NOTES

PROPOSED PAVEMENT FINE MILLING AND OVERLAY - ROUTE 20

SURFACE:	1¾"	SUPERPAVE SURFACE COURSE 12.5 - P (SSC-12.5-P)
INTERMEDIATE:	2¼"	MIN*** SUPERPAVE INTERMEDIATE COURSE 19.0 (SIC-19.0)
MICROMILL:	VARIES: 1¾" MIN TO 4" MAX	

PROPOSED PAVEMENT FINE MILLING AND OVERLAY - BOSTON POST RD & WELLESLEY ST

SURFACE:	1¾"	MIN*** SUPERPAVE SURFACE COURSE 12.5 - P (SSC-12.5-P)
MICROMILL:	1¾"	

*** IN ORDER TO MEET THE LINE AND GRADE AS SHOWN ON THE PLAN AND IN CONJUNCTION WITH THE VARIABLE DEPTH MICROMILL, THE INTERMEDIATE PAVEMENT COURSE THICKNESS MAY ALSO VARY, BUT SHALL NOT BE LESS THAN THE MINIMUM THICKNESS NOTED ABOVE.

PROPOSED FULL DEPTH PAVEMENT GREATER THAN 4 FEET WIDE

SURFACE:	1¾"	SUPERPAVE SURFACE COURSE 12.5 - P (SSC-12.5-P)
INTERMEDIATE:	2¼"	SUPERPAVE INTERMEDIATE COURSE 19.0 (SIC-19.0)
BASE COURSE:	4½"	SUPERPAVE BASE COURSE 37.5 (SBC-37.5)
SUBBASE:	4"	DENSE GRADED CRUSHED STONE FOR SUB-BASE
SUBBASE:	8"	GRAVEL BORROW (TYPE b)

PROPOSED FULL DEPTH PAVEMENT LESS THAN 4 FEET WIDE

SURFACE:	1¾"	SUPERPAVE SURFACE COURSE 12.5 - P (SSC-12.5-P)
INTERMEDIATE:	2¼"	SUPERPAVE INTERMEDIATE COURSE 19.0 (SIC-19.0)
BASE COURSE:	6"	HIGH EARLY STRENGTH CEMENT CONCRETE BASE COURSE
SUBBASE:	8"	GRAVEL BORROW (TYPE b)

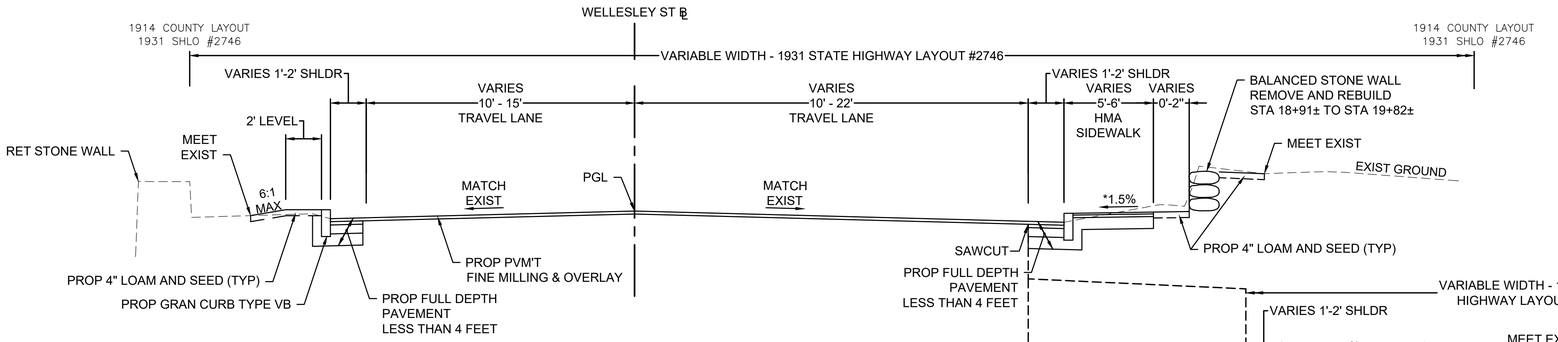
PROPOSED CEMENT CONCRETE PEDESTRIAN CURB RAMP / SIDEWALK

SURFACE:	4"	CEMENT CONCRETE AIR ENTRAINED (4000 PSI, ¾", 610 LB)
SUBBASE:	8"	GRAVEL BORROW, (TYPE b)

WESTON
ROUTE 20 / WELLESLEY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	HSI-0036(022)X	11	71
PROJECT FILE NO.	608940		

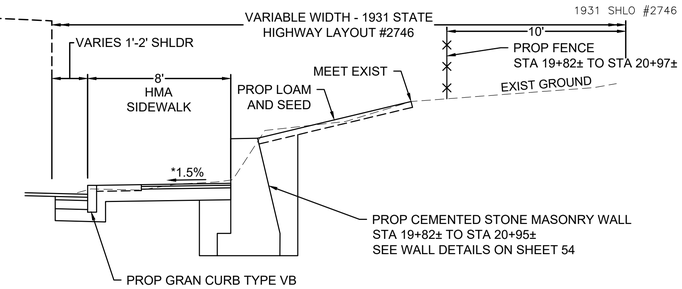
TYPICAL SECTIONS



* 0.5% TOLERANCE FOR CONSTRUCTION

WELLESLEY STREET

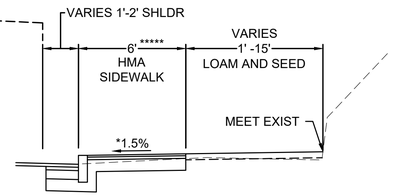
STA 18+91± TO STA 22+75±
NTS



* 0.5% TOLERANCE FOR CONSTRUCTION

WELLESLEY STREET

STA 19+82± TO STA 20+95±
NTS



***** HMA SIDEWALK ENDS AT, STA 22+45±

* 0.5% TOLERANCE FOR CONSTRUCTION

WELLESLEY STREET

STA 20+95± TO STA 21+95±
NTS

PAVEMENT NOTES (CONTINUED)

PROPOSED HOT MIX ASPHALT DRIVEWAY

SURFACE:	1½"	SUPERPAVE SURFACE COURSE 9.5 (SSC-9.5)
INTERMEDIATE:	2½"	SUPERPAVE SURFACE COURSE 12.5 (SSC-12.5)
SUBBASE:	8"	GRAVEL BORROW (TYPE b)

PROPOSED HOT MIX ASPHALT WALK

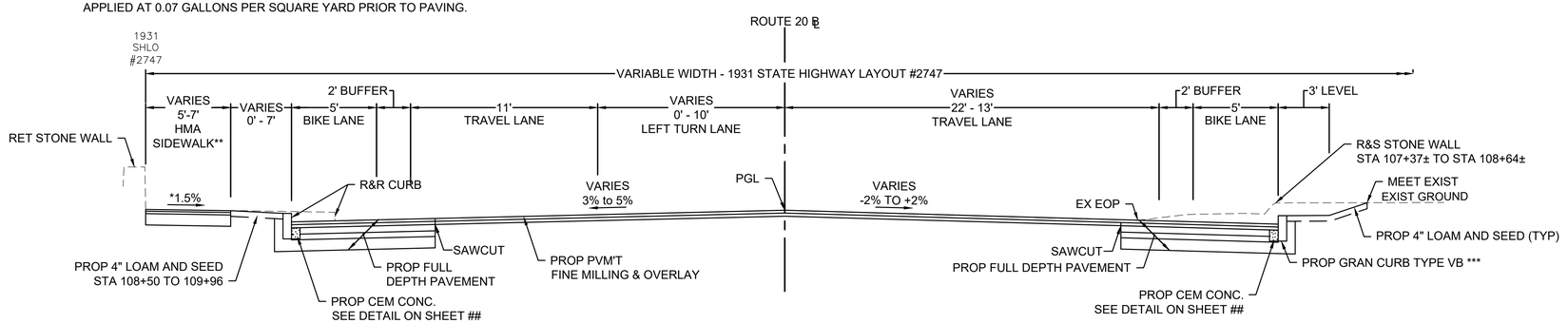
SURFACE:	1¼"	SUPERPAVE SURFACE COURSE 9.5 (SSC-9.5) OVER
	1¾"	SUPERPAVE SURFACE COURSE 9.5 (SSC-9.5)
SUBBASE:	8"	GRAVEL BORROW, (TYPE b)

PROPOSED STONE DUST WALK

SURFACE:	2"	STONE DUST OVER
	2"	STONE DUST
SUBBASE:	8"	GRAVEL BORROW, (TYPE B)

NOTES:

1. ALL HOT MIX ASPHALT PAVEMENTS SHALL BE PRODUCED AND CONSTRUCTED IN ACCORDANCE WITH SECTION 450 QUALITY ASSURANCE FOR HMA.
2. ALL HOT MIX ASPHALT DRIVEWAYS SHALL BE ESTIMATED AND PAID FOR UNDER ITEM 702. OF THE STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES.
3. VARIABLE DEPTH MILLING SHALL BE UTILIZED TO MEET PROPOSED CROSS SLOPES.
4. ALL MILLED SURFACES SHALL RECEIVE A TACK COAT APPLIED AT 0.08 GALLONS PER SQUARE YARD AND ALL UNMILLED SURFACES SHALL RECEIVE A TACK COAT APPLIED AT 0.07 GALLONS PER SQUARE YARD PRIOR TO PAVING.



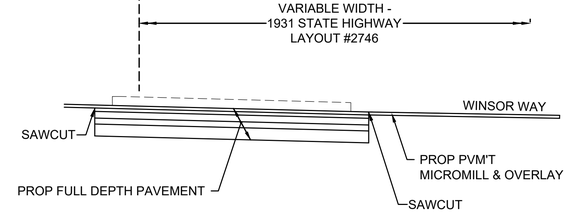
** MEET EXIST HMA WALK, STA 108+92±

* 0.5% TOLERANCE FOR CONSTRUCTION

ROUTE 20

STA 107+00± TO STA 111+00±
NTS

*** MEET EXIST EOP, STA 109+35±



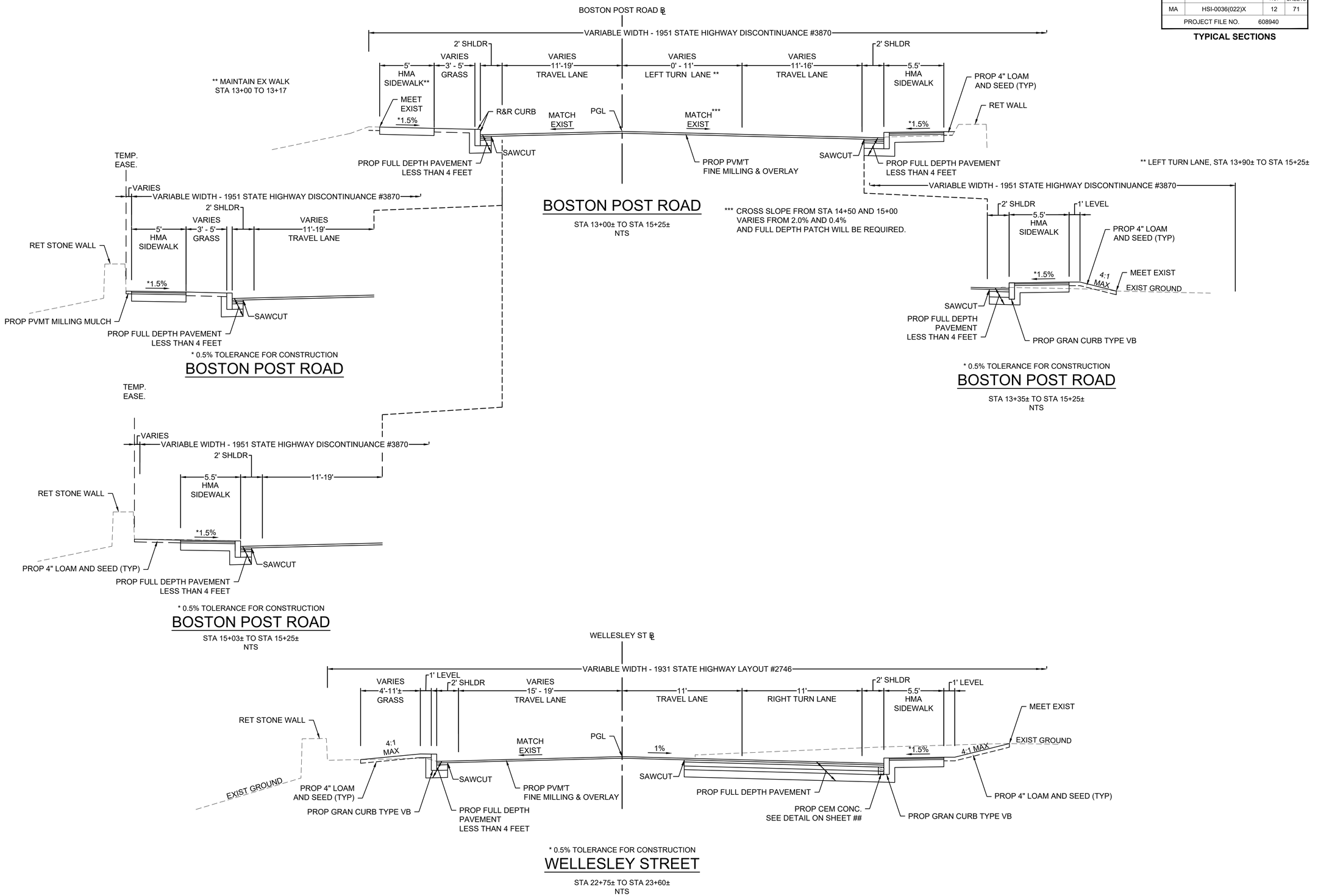
WELLESLEY STREET

STA 22+40± TO STA 22+75±
NTS

WESTON
ROUTE 20 / WELLESLEY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	HSI-0036(022)X	12	71
PROJECT FILE NO.	608940		

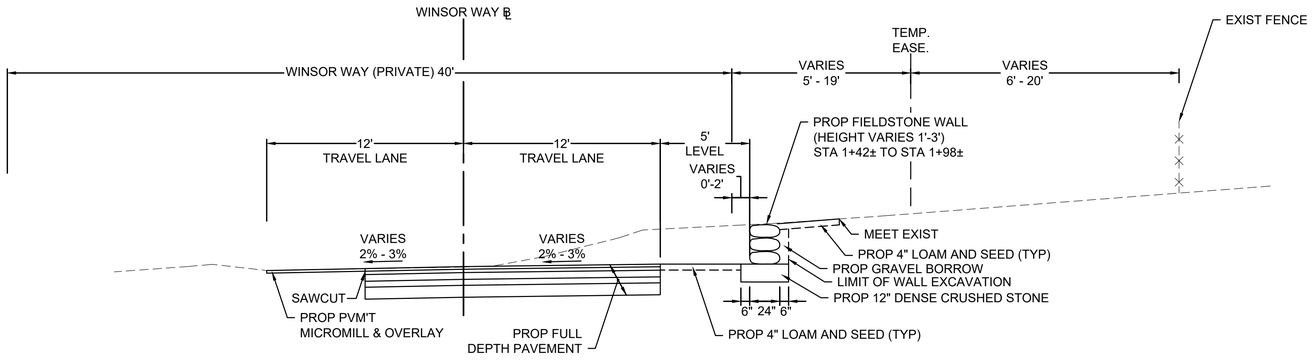
TYPICAL SECTIONS



WESTON
ROUTE 20 / WELLESLEY STREET

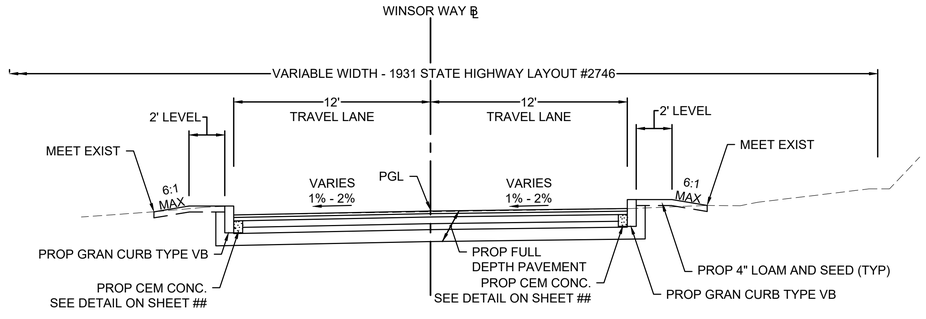
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	HSI-0036(022)X	13	71
PROJECT FILE NO.	608940		

TYPICAL SECTIONS



WINSOR WAY

STA 0+86± TO STA 2+70±
NTS



WINSOR WAY

STA 0+60± TO STA 0+86±
NTS

WESTON
ROUTE 20 / WELLESLEY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	HSI-0036(022)X	14	71
PROJECT FILE NO.	608940		

CONSTRUCTION PLANS

HIGHWAY GUARD DETAILS

DESCRIPTION	LOCATION
PROP GUARDRAIL, TANGENT END TREATMENT, TL-2	STA 101+34.4 RT TO STA 101+68.1 RT
PROP GUARDRAIL, TL-2 (SINGLE FACED)	STA 101+68.1 RT TO STA 104+55.6 RT
PROP TRAILING ANCHORAGE	STA 104+55.6 RT TO STA 104+65.0 RT

TRAFFIC SIGNAL CONDUIT
SEE SHEET NO. 34

WATER SUPPLY ALTERATIONS
SEE SHEET NO. 26

DRAINAGE DETAILS
SEE SHEET NO. 26

0 20 50 100

SCALE: 1" = 20'

FOR PROFILE SEE SHEETS NO. 17 AND 20

WESTON
ROUTE 20 / WELLESLEY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	HSI-0036(022)X	15	71
PROJECT FILE NO.	608940		

CONSTRUCTION PLANS

HIGHWAY GUARD DETAILS
NONE

TRAFFIC SIGNAL CONDUIT
SEE SHEET NO. 34

WATER SUPPLY ALTERATIONS
SEE SHEET NO. 27

DRAINAGE DETAILS
SEE SHEET NO. 27

14360_HDI(CONST).DWG Plotted on 30-Jan-2026 1:21 PM

N

GREGORY I. GOLDMAN & CATHY T. GOLDMAN
293 BOSTON POST RD
028_010_000
BOOK 59214 PAGE 19

N/F
TOWN OF WESTON
0 BOSTON POST RD
028_011_000
BOOK 12782 PAGE 45

END OF WORK
LIMIT OF PAVING
STA 111+00.00
N 2959025.6253
E 713237.0937

BOSTON POST ROAD
(ROUTE 20)
(PUBLIC - VARIABLE WIDTH)

SAWCUT, MEET EXIST LIMITS OF MILL AND OVERLAY
PRC +30.15

RET EXIST CURB AND REVEAL

MEET EXIST, +95.7

MEET EXIST, +34.5

ROUTE 20 CONST. ℄

PROP 12" PL GAS MAIN (BO-NG)

PROP EOP

RET UPL #21-43

RET UPL #21-44

PROP 6' GRAN TRANSITION CURB

RET WALL

R&R GRAN CURB

SAWCUT

PROP MILL AND OVERLAY

PROP GRAN CURB

PCC +21.85

1931 SHLO BASELINE #2747
N 82°39'50" E
586.53'

1931 SHLO #2747

BENCHMARK
LEFT OUTER CORNER OF LOWEST STONE STEP
EL=182.46'

N/F
MULDOON, MARY EILEEN, TRUSTEE
280 BOSTON POST RD
028_081_000
BOOK 32499 PAGE 001

N/F
JAI KISHORE & MANU SIROHI
286 BOSTON POST RD
028_082_000
BOOK 68791 PAGE 180

GREGORY I. GOLDMAN & CATHY T. GOLDMAN
293 BOSTON POST RD
028_010_000
BOOK 59214 PAGE 19

LIMIT OF 25' NO DISTURBANCE ZONE

EXIST WETLAND

LIMIT OF 100' BUFFER TO VEGETATED WETLAND AND VERNAL POOL

PROP LOAM & SEED

1898 SHLO #289

RET MB

RET DH

PROP TEMP CONSTR EASEMENT

PROP PVMT MILLING MULCH STA 106+83± TO STA 107+33±

RET DH ADJ (BO)

RET

ADJ (BO)

RET FIELDSTONE WALL

PROP FULL DEPTH PAVEMENT

RET FENCE

ADJ (BO)

RET UPL #21-45-1X

PROP TEMP UTILITY EASEMENT

PROP TEMP CONSTR EASEMENT

PROP LOAM & SEED MEET EXIST WALK

SAWCUT MEET EXIST, +92.0

PROP HMA WALK VARIES (5' - 7')

ADJ WG

PROP GICI

PROP 12" PL GAS MAIN (BO-NG)

REM F&G, PROP F&C RETAIN SUMP

PROP HMA WALK WIDTH VARIES (5.5'-8')

PROP TS POLE W/30' MAST ARM

PROP CIT

PROP CBCI (TYP)

RET

REM TREE

ADJ (BO)

PROP TS POLE W/35' MAST ARM

PROP 8' TS POST

END SIDEWALK +16.0

ADJ WG

PROP GRAN CURB

PROP 5' STONE DUST WALK

R&R UPL #13-1(BO)

REM CB

LB

PROP 10' GUY (BO)

RET HYD

ADJ WG

CIT

PROP CB

REM 50' SECTION OF EXIST WALL

PROP 10.5' HMA WALK

PROP 5.5' HMA WALK

REM. EXIST PAVEMENT PROP LOAM & SEED

R&S WALL STA 106+98± TO STA 108+64±

R&R UPL #21-46 W/RISER (BO) SEE NOTE 1

PROP 15' GUY (BO)

PROP FULL DEPTH PAVEMENT

PROP FIELDSTONE WALL

WINSOR WAY (PRIVATE 40' WIDE)

Δ=106° 5' 35" CUT
L=117.64' R=63.00'

PC +03.10

CC +20.74

PT +41.46

SEE INSET A ON SHEET 16

PROP TREE PROTECTION FENCE

PROP TEMP CONSTR EASEMENT

RET FENCE

PROP TEMP CONSTR EASEMENT

PROP FULL DEPTH PAVEMENT

PROP 22' GUY (BO)

APPROX LIMIT OF GRADING

R&R UPL #21-45 W/RISER (BO)

RET WALL

PROP 6' GRAN TRANSITION CURB

RET UPL #21-44

THE EISEN FAMILY REVOCABLE TRUST
10 WINSOR WY
028_074_000
BOOK 80467 PAGE 408

PATRICK AND MOLLY CUNNINGHAM LIVING TRUST
1 WINSOR WY
028_057_010
BOOK 81204 PAGE 417

CONTINUED ON SHEET NO. 14

CONTINUED ON SHEET NO. 16

NOTE:
1. FINAL LOCATION OF R&R UPL #21-46 IS WITHIN THE EXISTING ROADWAY. BASED UPON THE CONTRACTOR CONSTRUCTION STAGING THE UTILITY POLE SHALL BE PROTECTED WITH TRAFFIC BARRIER .

0 20 50 100
SCALE: 1" = 20'

FOR PROFILE SEE SHEET NO. 18

WESTON
ROUTE 20 / WELLESLEY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	HSI-0036(022)X	16	71
PROJECT FILE NO.	608940		

CONSTRUCTION PLANS

Plotted on 30-Jan-2026 1:21 PM

14360_HD(CONST).DWG

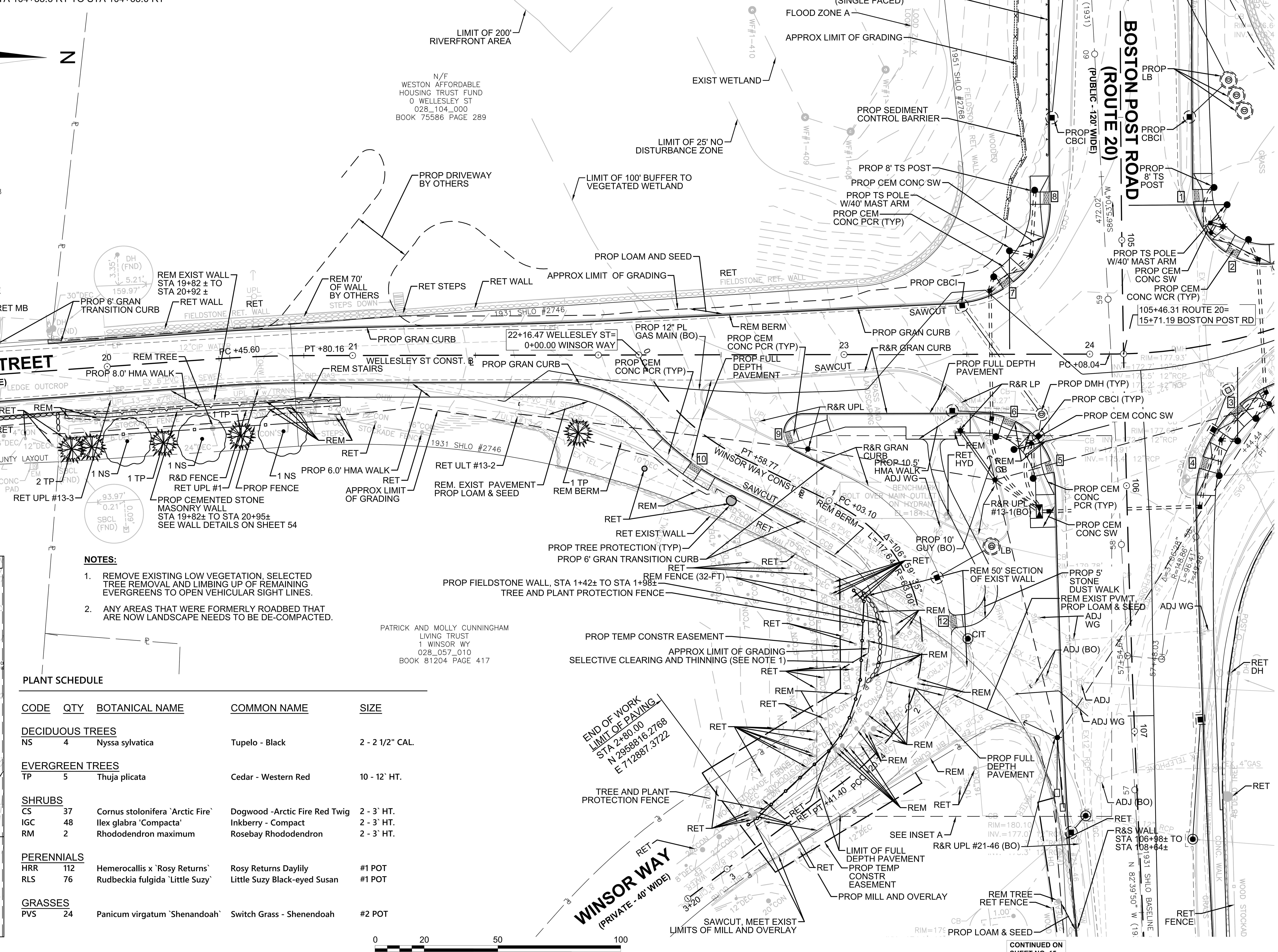
HIGHWAY GUARD DETAILS

DESCRIPTION	LOCATION
PROP GUARDRAIL, TANGENT END TREATMENT, TL-2	STA 101+34.4 RT TO STA 101+68.1 RT
PROP GUARDRAIL, TL-2 (SINGLE FACED)	STA 101+68.1 RT TO STA 104+55.6 RT
PROP TRAILING ANCHORAGE	STA 104+55.6 RT TO STA 104+65.0 RT

TRAFFIC SIGNAL CONDUIT
SEE SHEET NO. 34

WATER SUPPLY ALTERATIONS
SEE SHEET NO. 28

DRAINAGE DETAILS
SEE SHEET NO. 28



N
N/F
LEROY, GARY E.
17 WELLESLEY ST
028_103_000
BOOK 25624 PAGE 258
N/F
WESTON AFFORDABLE
HOUSING TRUST FUND
0 WELLESLEY ST
028_104_000
BOOK 75586 PAGE 289
LIMIT OF 200' RIVERFRONT AREA
EXIST WETLAND
LIMIT OF 25' NO DISTURBANCE ZONE
LIMIT OF 100' BUFFER TO VEGETATED WETLAND
PROP DRIVEWAY BY OTHERS
END PROJECT LIMIT OF WORK
STA 18+91.00
N 2958439.2897
E 712702.5656
PROP 6' GRAN TRANSITION CURB
MEET EXIST
RET FENCE
RET MB
PROP 6' GRAN TRANSITION CURB
REM EXIST WALL STA 19+82 ± TO STA 20+92 ±
RET WALL
REM 70' OF WALL BY OTHERS
RET STEPS
RET WALL
APPROX LIMIT OF GRADING
PROP LOAM AND SEED
PROP GRAN CURB
WELLESLEY STREET
(PUBLIC - 50' WIDE)
WELLESLEY ST CONST. ℄
SAWCUT
PC +45.60
PT +80.16
REM TREE
PROP 8.0' HMA WALK
REM STAIRS
SAWCUT, MEET EXIST LIMITS OF MILL AND OVERLAY
MEET EXIST
RET
REM
BALANCED STONE WALL REMOVE AND REBUILD STA 18+91± TO STA 19+82±
APPROX LIMIT OF GRADING
N/F
THOMAS B. ELLIS
18 WELLESLEY ST
028_073_000
BOOK 65497 PAGE 61
2 TP
RET UPL #13-3
1 NS
1 TP
R&D FENCE
RET UPL #1
PROP FENCE
PROP CEMENTED STONE MASONRY WALL STA 19+82± TO STA 20+95±
SEE WALL DETAILS ON SHEET 54
PROP 6.0' HMA WALK
APPROX LIMIT OF GRADING
22+16.47 WELLESLEY ST= 0+00.00 WINSOR WAY
PROP 12" PL GAS MAIN (BO)
PROP CEM CONC PCR (TYP)
PROP FULL DEPTH PAVEMENT
REM BERM
RET ULT #13-2
REM. EXIST PAVEMENT PROP LOAM & SEED
1 TP
REM BERM
WINSOR WAY CONST. ℄
PT +58.77
PC +03.10
RET EXIST WALL
PROP TREE PROTECTION (TYP)
PROP 6' GRAN TRANSITION CURB
REM FENCE (32-FT)
PROP FIELDSTONE WALL, STA 1+42± TO STA 1+98±
TREE AND PLANT PROTECTION FENCE
PROP TEMP CONSTR EASEMENT
APPROX LIMIT OF GRADING
SELECTIVE CLEARING AND THINNING (SEE NOTE 1)
PATRICK AND MOLLY CUNNINGHAM
LIVING TRUST
1 WINSOR WY
028_057_010
BOOK 81204 PAGE 417
END OF WORK LIMIT OF PAVING
STA 2+80.00
N 2958816.2768
E 712887.3722
TREE AND PLANT PROTECTION FENCE
WINSOR WAY
(PRIVATE - 40' WIDE)
LIMIT OF FULL DEPTH PAVEMENT
PROP TEMP CONSTR EASEMENT
PROP MILL AND OVERLAY
SAWCUT, MEET EXIST LIMITS OF MILL AND OVERLAY
SEE INSET A
R&R UPL #21-46 (BO)
BOSTON POST ROAD
(ROUTE 20)
(PUBLIC - 120' WIDE)
R&R CURB
PROP DMH
PROP GUARDRAIL TL-2 (SINGLE FACED)
FLOOD ZONE A
APPROX LIMIT OF GRADING
PROP SEDIMENT CONTROL BARRIER
PROP CBCI
PROP 8' TS POST
PROP CEM CONC SW
PROP TS POLE W/40' MAST ARM
PROP CEM CONC PCR (TYP)
PROP LB
PROP CBCI
PROP 8' TS POST
PROP TS POLE W/40' MAST ARM
PROP CEM CONC SW
PROP CEM CONC WCR (TYP)
105+46.31 ROUTE 20= 15+71.19 BOSTON POST RD
PROP GRAN CURB
R&R GRAN CURB
PC +08.04
PROP FULL DEPTH PAVEMENT
R&R LP
PROP DMH (TYP)
PROP CBCI (TYP)
PROP CEM CONC SW
R&R UPL
R&R GRAN CURB
PROP 10.5' HMA WALK
ADJ WG
RET HYD
REM CB
R&R UPL #13-1(BO)
PROP CEM CONC PCR (TYP)
PROP CEM CONC SW
PROP 10' GUY (BO)
LB
REM 50' SECTION OF EXIST WALL
PROP 5' STONE DUST WALK
REM EXIST PVM'T, PROP LOAM & SEED
ADJ WG
ADJ (BO)
CIT
ADJ WG
ADJ
PROP FULL DEPTH PAVEMENT
ADJ (BO)
R&S WALL STA 106+98± TO STA 108+64±
REM TREE
RET FENCE
PROP LOAM & SEED
RET DH
RET
RET FENCE
1931 SHLO BASELINE
N 82°39'50" W

CONTINUED ON SHEET NO. 14

CONTINUED ON SHEET NO. 14

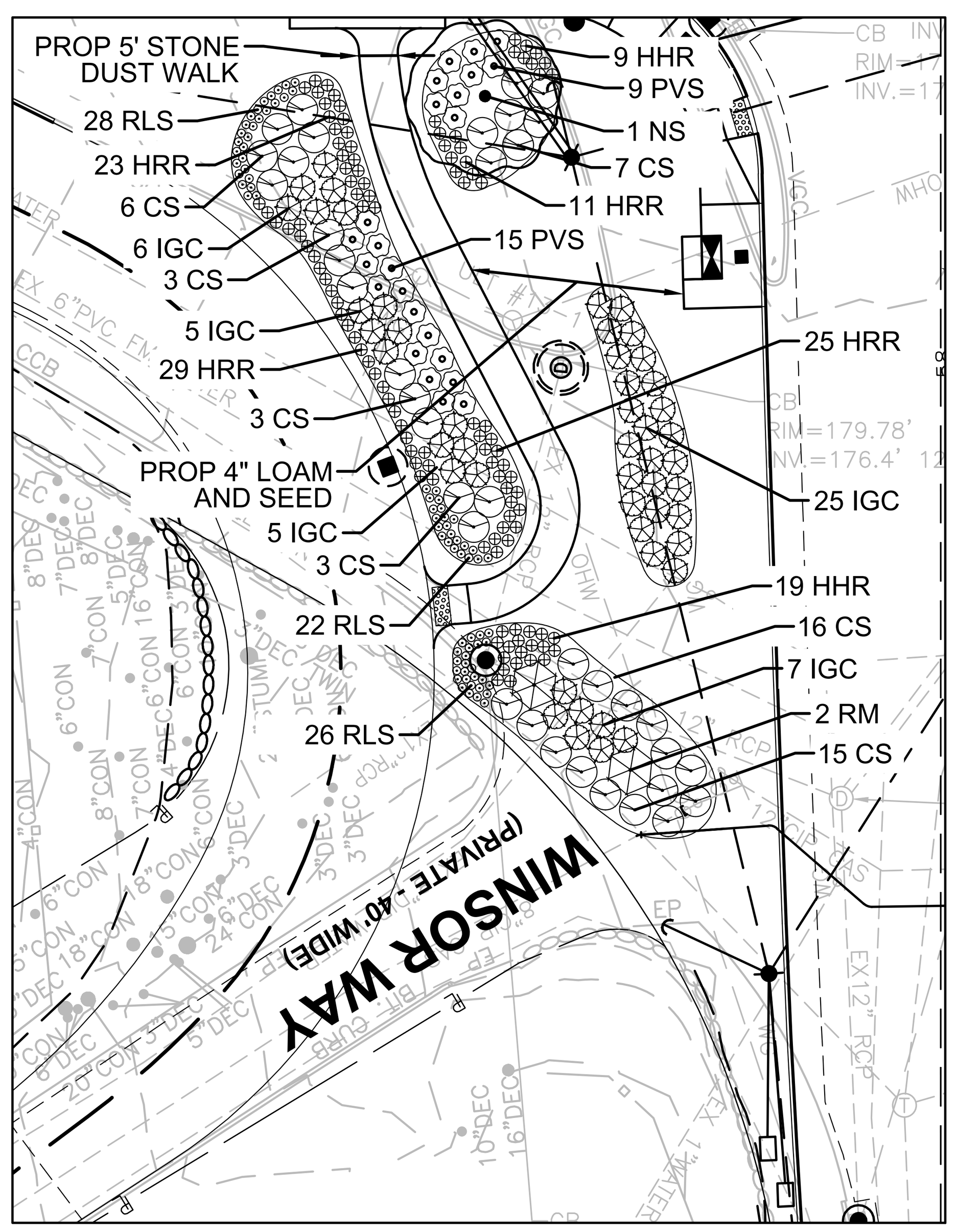
CONTINUED ON SHEET NO. 15

NOTES:

1. REMOVE EXISTING LOW VEGETATION, SELECTED TREE REMOVAL AND LIMBING UP OF REMAINING EVERGREENS TO OPEN VEHICULAR SIGHT LINES.
2. ANY AREAS THAT WERE FORMERLY ROADBED THAT ARE NOW LANDSCAPE NEEDS TO BE DE-COMPACTED.

PLANT SCHEDULE

CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE
DECIDUOUS TREES				
NS	4	Nyssa sylvatica	Tupelo - Black	2 - 2 1/2" CAL.
EVERGREEN TREES				
TP	5	Thuja plicata	Cedar - Western Red	10 - 12` HT.
SHRUBS				
CS	37	Cornus stolonifera `Arctic Fire`	Dogwood -Arctic Fire Red Twig	2 - 3` HT.
IGC	48	Ilex glabra 'Compacta'	Inkberry - Compact	2 - 3` HT.
RM	2	Rhododendron maximum	Rosebay Rhododendron	2 - 3` HT.
PERENNIALS				
HRR	112	Hemerocallis x `Rosy Returns`	Rosy Returns Daylily	#1 POT
RLS	76	Rudbeckia fulgida `Little Suzy`	Little Suzy Black-eyed Susan	#1 POT
GRASSES				
PVS	24	Panicum virgatum `Shenandoah`	Switch Grass - Shenendoah	#2 POT



INSET A
SCALE: 1" = 20'

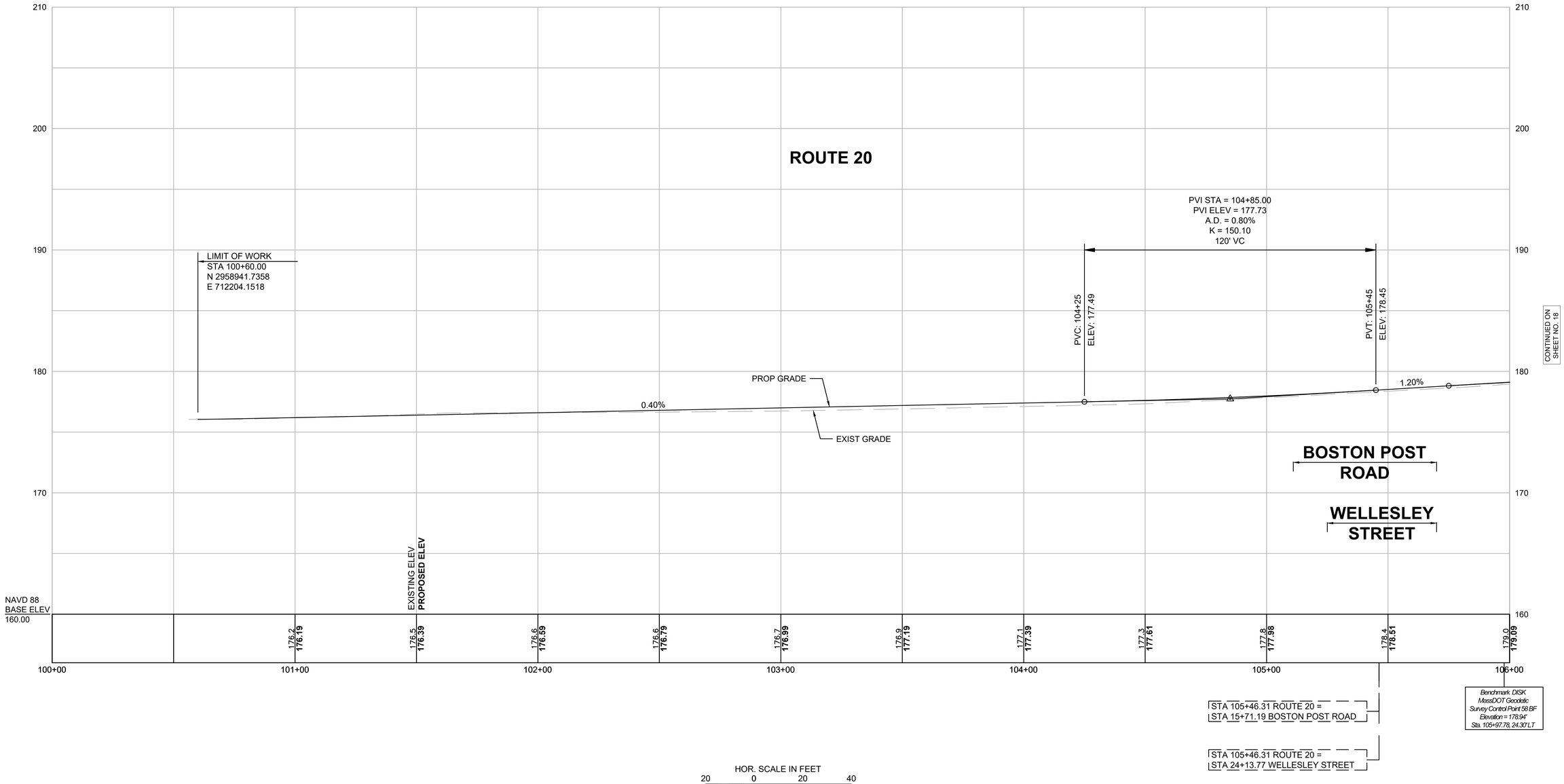
SCALE: 1" = 20'

FOR PROFILE SEE SHEETS NO. 19 AND 21

WESTON
ROUTE 20 / WELLESLEY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	HSI-0036(022)X	17	71
PROJECT FILE NO.	608940		

PROFILES

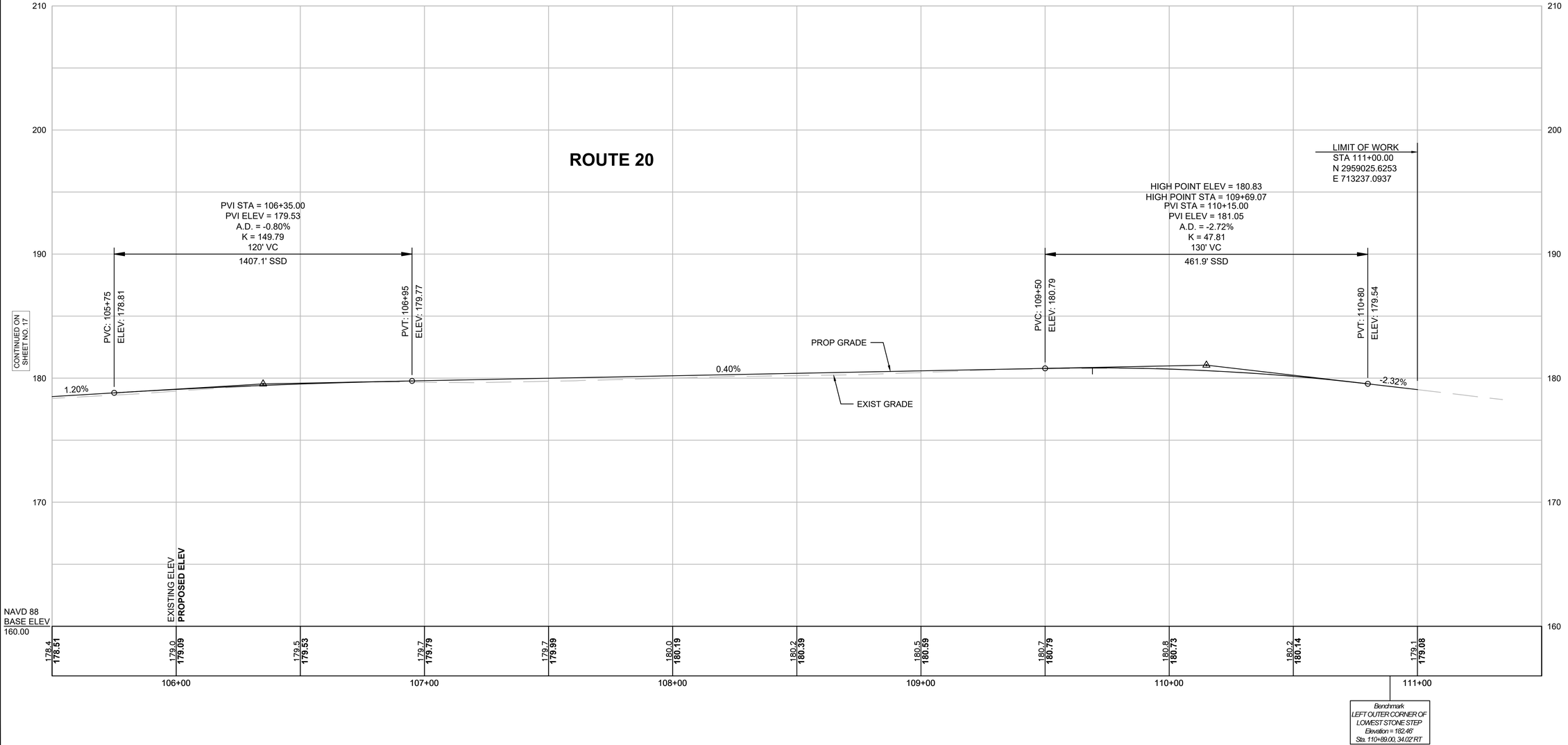


FOR CONSTRUCTION PLANS:
SEE SHEET NO. 14

WESTON
ROUTE 20 / WELLESLEY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	HSI-0036(022)X	18	71
PROJECT FILE NO.	608940		

PROFILES



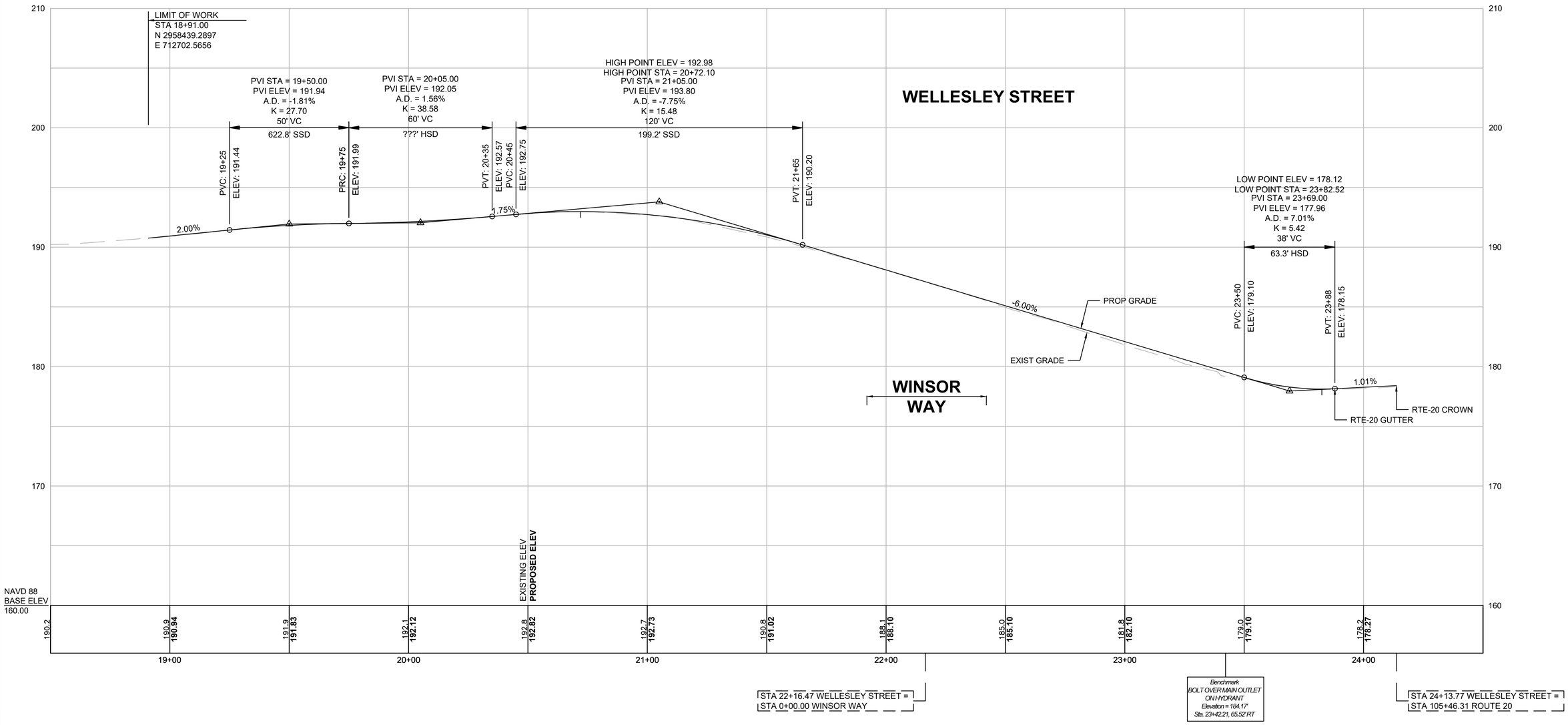
HOR. SCALE IN FEET
20 0 20 40
VER. SCALE IN FEET
4 0 4 8

FOR CONSTRUCTION PLANS:
SEE SHEET NO. 15

WESTON
ROUTE 20 / WELLESLEY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	HSI-0036(022)X	19	71
PROJECT FILE NO.	608940		

PROFILES



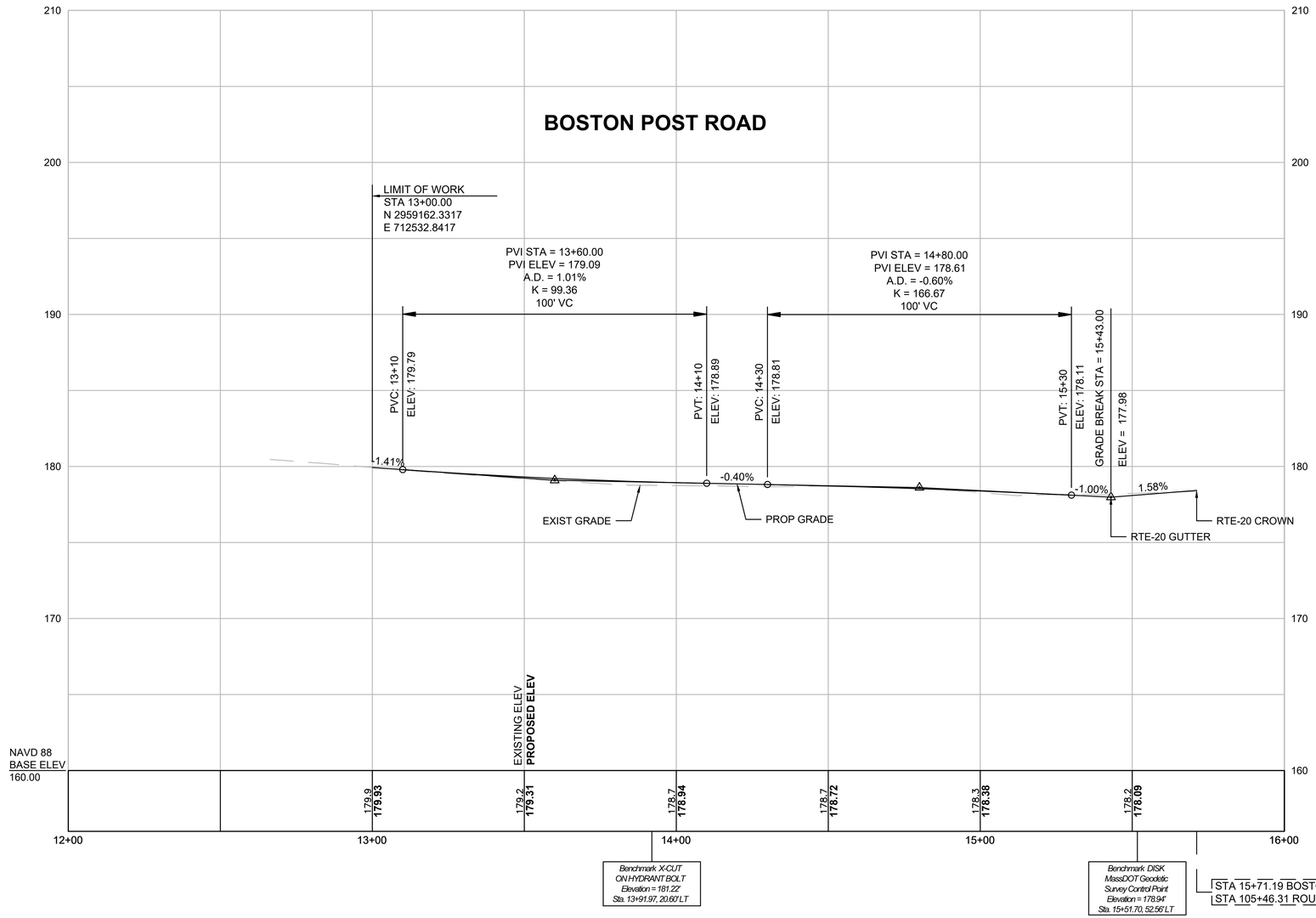
HOR. SCALE IN FEET
20 0 20 40
4 0 4 8
VER. SCALE IN FEET

FOR CONSTRUCTION PLANS:
SEE SHEET NO. 16

WESTON
ROUTE 20 / WELLESLEY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	HSI-0036(022)X	20	71
PROJECT FILE NO.	608940		

PROFILES



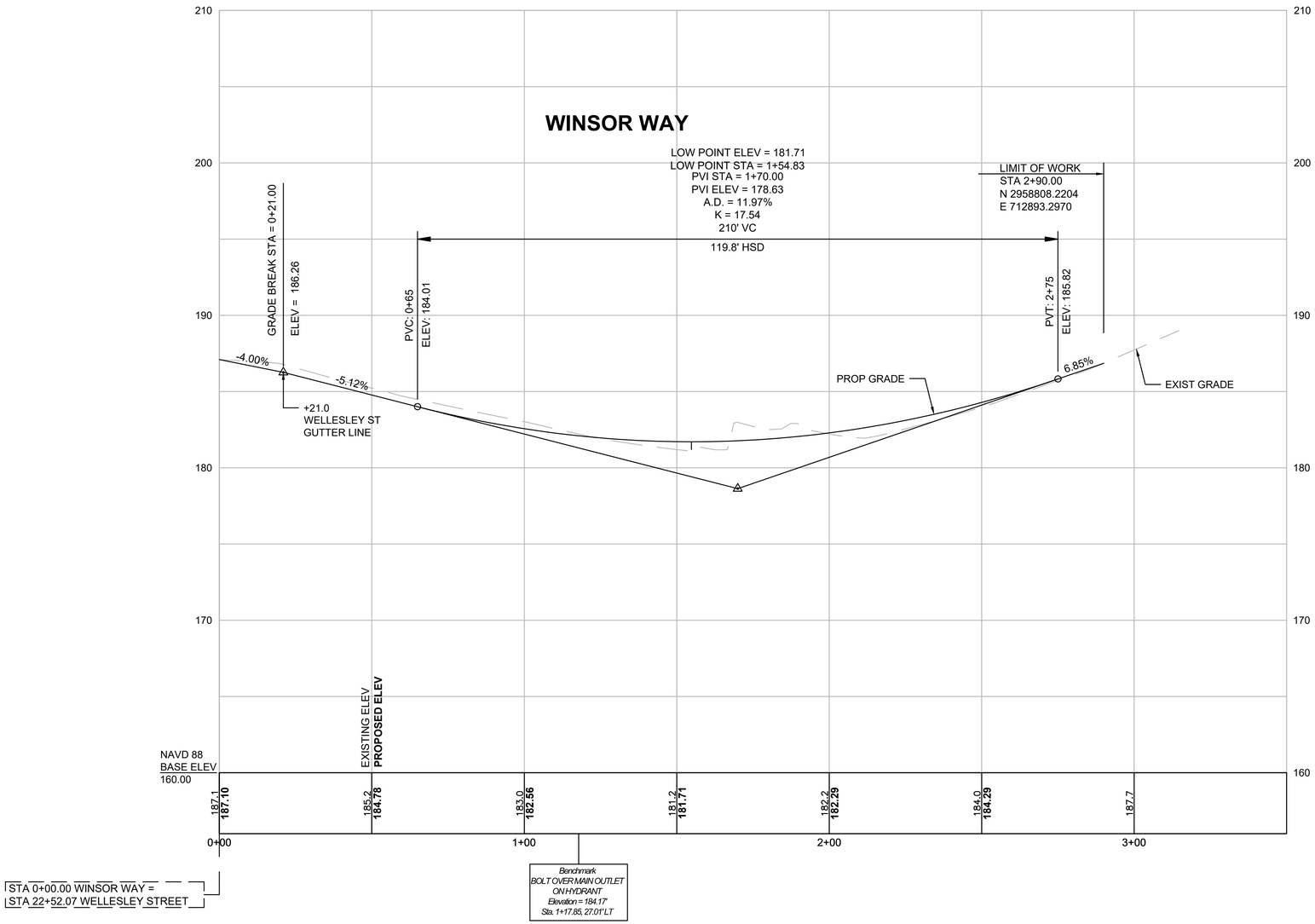
HOR. SCALE IN FEET
20 0 20 40
4 0 4 8
VER. SCALE IN FEET

FOR CONSTRUCTION PLANS:
SEE SHEET NO. 14

WESTON
ROUTE 20 / WELLESLEY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	HSI-0036(022)X	21	71
PROJECT FILE NO.	608940		

PROFILES



HOR. SCALE IN FEET
20 0 20 40
4 0 4 8
VER. SCALE IN FEET

FOR CONSTRUCTION PLANS:
SEE SHEET NO. 16

WESTON
ROUTE 20 / WELLESLEY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	HSI-0036(022)X	22	71
PROJECT FILE NO.	608940		

CURB TIE AND GRADING PLANS

14360_HD(ALGN).DWG Plotted on 30-Jan-2026 1:24 PM

ROUTE 20 CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L1	100+00.00	2958933.5236	712144.7166		N82°04'15"E 43.03'	100+43.03	2958939.4599	712187.3373
C1	100+43.03	2958939.4599	712187.3373	R=2200.00' Δ=8°16'18" L=317.61' T=159.08'		103+60.64	2958960.4544	712503.9749
C2	103+60.64	2958960.4544	712503.9749	R=7501.00' Δ=3°31'23" L=461.21' T=230.68'		108+21.85	2958971.8744	712964.9748

BOSTON POST RD CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
C5	10+00.00	2959200.5909	712240.2942	R=475.00' Δ=50°52'04" L=421.71' T=225.89'		14+21.71	2959096.4307	712634.7691
C6	14+21.71	2959096.4307	712634.7691	R=120.00' Δ=21°27'43" L=44.95' T=22.74'		14+66.66	2959061.7236	712662.9185
C7	14+66.66	2959061.7236	712662.9185	R=224.00' Δ=26°44'14" L=104.53' T=53.23'		15+71.19	2958961.6425	712689.6310

NOTE:

1. GRADES SHOWN AT 25' OR 50' STATIONS UNLESS OTHERWISE NOTED.
2. GRADES SHOWN AT 10' INTERVALS FOLLOWING THE PC OF EACH CURVE AT THE INTERSECTION OF ROUTE 20 AND BOSTON POST ROAD / WELLESLEY STREET.

LEGEND

- [#] WCR#
- (#) CURVE#
- (#) DRIVEWAY#

SURVEY TRAVERSE TABLE						
POINT #	NORTHING	EASTING	ELEVATION	RAW DESCRIPTION	STATION	OFFSET
1	2958988.438	712746.751	179.140	MTRV DRILL HOLE	106+04.20	24.50' LT
2	2958981.128	712470.394	176.170	MTRV MAGNAIL	103+27.40	19.80' LT
3	2959157.421	712584.205	179.610	MTRV MAGNAIL	13+46.60	20.10' LT
7	2959154.647	712683.857	172.240	MTRV HUB AND TACK	14+21.60	76.15' LT

SCALE: 1" = 20'

CONTINUED ON SHEET NO. 23

CONTINUED ON SHEET NO. 24

WESTON
ROUTE 20 / WELLESLEY STREET

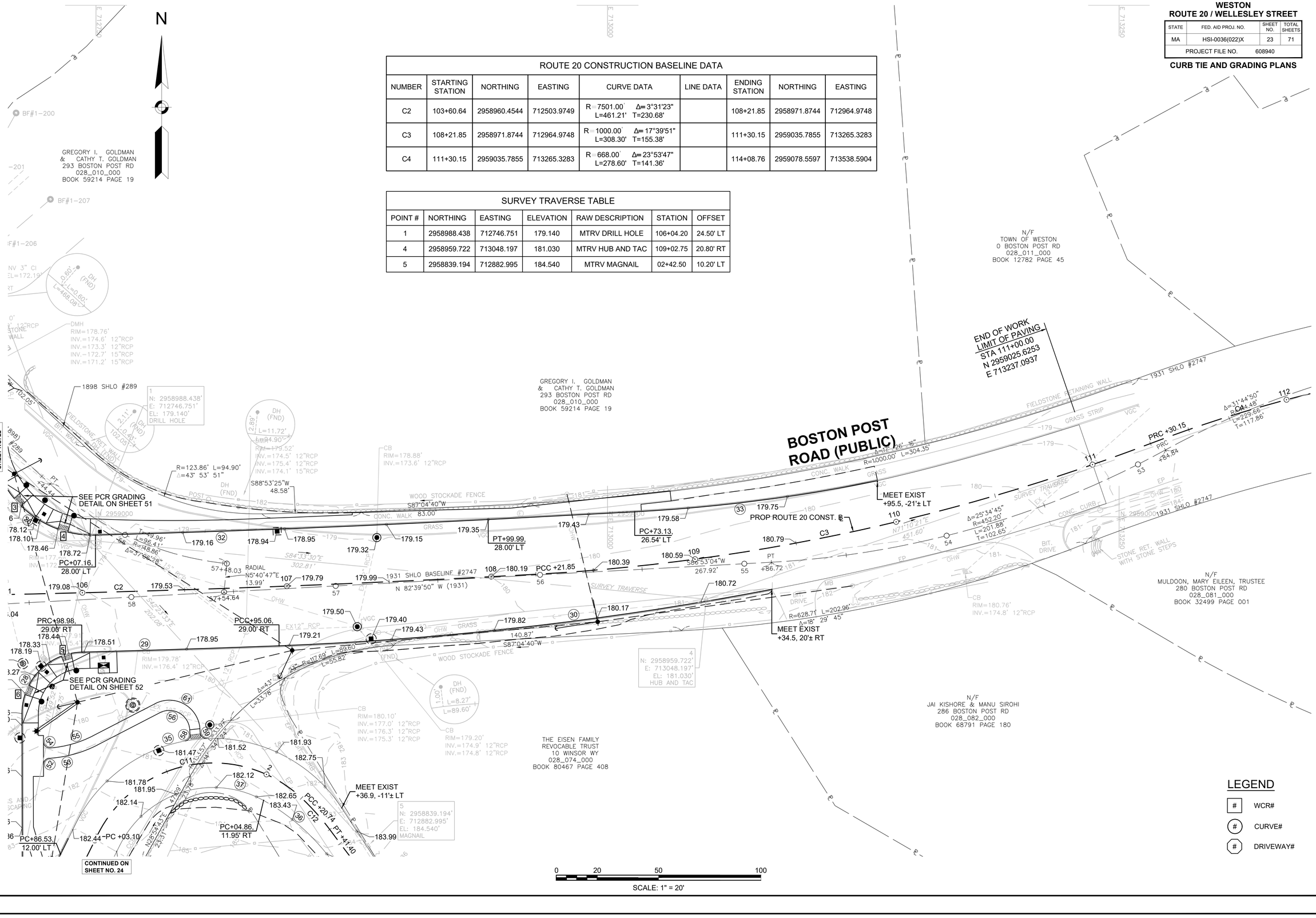
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	HSI-0036(022)X	23	71
PROJECT FILE NO. 608940			

CURB TIE AND GRADING PLANS

14360_HD(ALGN).DWG Plotted on 30-Jan-2026 1:24 PM

ROUTE 20 CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
C2	103+60.64	2958960.4544	712503.9749	R=7501.00' Δ=3°31'23" L=461.21' T=230.68'		108+21.85	2958971.8744	712964.9748
C3	108+21.85	2958971.8744	712964.9748	R=1000.00' Δ=17°39'51" L=308.30' T=155.38'		111+30.15	2959035.7855	713265.3283
C4	111+30.15	2959035.7855	713265.3283	R=668.00' Δ=23°53'47" L=278.60' T=141.36'		114+08.76	2959078.5597	713538.5904

SURVEY TRAVERSE TABLE						
POINT #	NORTHING	EASTING	ELEVATION	RAW DESCRIPTION	STATION	OFFSET
1	2958988.438	712746.751	179.140	MTRV DRILL HOLE	106+04.20	24.50' LT
4	2958959.722	713048.197	181.030	MTRV HUB AND TAC	109+02.75	20.80' RT
5	2958839.194	712882.995	184.540	MTRV MAGNAIL	02+42.50	10.20' LT



WESTON
ROUTE 20 / WELLESLEY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	HSI-0036(022)X	24	71
PROJECT FILE NO.	608940		

CURB TIE AND GRADING PLANS

14360_HD(ALGN).DWG Plotted on 30-Jan-2026 1:25 PM

SURVEY TRAVERSE TABLE						
POINT #	NORTHING	EASTING	ELEVATION	RAW DESCRIPTION	STATION	OFFSET
1	2958988.438	712746.751	179.140	MTRV DRILL HOLE	106+04.20	24.50' LT
5	2958839.194	712882.995	184.540	MTRV MAGNAIL	02+42.50	10.20' LT
6	2958783.144	712703.747	186.290	MTRV MAGNAIL	00+13.70	16.82' RT
8	2958524.339	712684.906	191.690	MTRV MAGNAIL	19+77.37	12.06' LT

WELLESLEY ST CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
C9	24+08.04	2958955.9079	712689.7153	R=224.00' Δ=1°28'01" L=5.74' T=2.87'		24+13.77	2958961.6425	712689.6310
L6	20+80.16	2958628.0263	712690.3372		N0°06'31"W 327.88'	24+08.04	2958955.9079	712689.7153
C64	20+45.60	2958593.4984	712691.5964	R=500.00' Δ=3°57'36" L=34.56' T=17.29'		20+80.16	2958628.0263	712690.3372
L7	18+50.00	2958398.3931	712705.4746		N4°04'07"W 195.60'	20+45.60	2958593.4984	712691.5964

WINSOR WAY CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
C10	0+00.00	2958764.3418	712690.0786	R=88.00' Δ=38°16'03" L=58.77' T=30.53'		0+58.77	2958804.8352	712731.1666
L4	0+58.77	2958804.8352	712731.1666		N26°17'02"E 44.32'	1+03.10	2958844.5748	712750.7932
C11	1+03.10	2958844.5748	712750.7932	R=63.00' Δ=106°59'35" L=117.64' T=85.13'		2+20.74	2958862.5446	712850.4676
C12	2+20.74	2958862.5446	712850.4676	R=120.00' Δ=9°51'50" L=20.66' T=10.36'		2+41.40	2958847.1608	712864.2181
L5	2+41.40	2958847.1608	712864.2181		S36°51'34"E 78.60'	3+20.00	2958784.2724	712911.3663

LEGEND

- # WCR#
- (#) CURVE#
- (#) DRIVEWAY#

0 20 50 100

SCALE: 1" = 20'

CONTINUED ON SHEET NO. 22

CONTINUED ON SHEET NO. 23

SEE CURB TIE AND GRADING PLANS SHEET 22

CURVE TABLE				
CURVE	RADIUS	LENGTH	TANGENT	DELTA
14	900.00	127.15	63.68	8° 05' 41"
15	1600.00	227.46	113.92	8° 08' 43"
16	7530.00	111.85	55.93	0° 51' 04"
17	40.00	61.25	38.45	87° 44' 12"
18	7472.00	97.45	48.73	0° 44' 50"
19	30.00	58.44	44.16	111° 37' 08"
20	200.00	125.55	64.92	35° 58' 01"
21	461.00	17.27	8.64	2° 08' 46"

CURVE TABLE				
CURVE	RADIUS	LENGTH	TANGENT	DELTA
23	336.00	31.54	15.78	5° 22' 43"
24	700.00	73.22	36.64	5° 59' 35"
25	200.00	137.17	71.41	39° 17' 46"
26	50.00	63.75	37.03	73° 03' 05"
27	500.00	59.75	29.91	6° 50' 48"
28	30.00	30.00	16.39	57° 17' 45"
29	7530.00	96.46	48.23	0° 44' 02"

CURVE TABLE				
CURVE	RADIUS	LENGTH	TANGENT	DELTA
41	205.50	113.73	58.36	31° 42' 36"
46	50.00	26.87	13.77	30° 47' 17"
47	55.00	16.88	8.51	17° 34' 55"

CURVE TABLE				
CURVE	RADIUS	LENGTH	TANGENT	DELTA
48	10.00	8.59	4.58	49° 14' 25"
49	66.00	12.29	6.16	10° 39' 59"
62	25.00	11.35	5.77	26° 00' 12"
63	50.00	3.50	1.75	4° 00' 48"

SEE CURB TIE AND GRADING PLANS SHEET 23

CURVE TABLE				
CURVE	RADIUS	LENGTH	TANGENT	DELTA
26	50.00	63.75	37.03	73° 03' 05"
28	30.00	30.00	16.39	57° 17' 45"
29	7530.00	96.46	48.23	0° 44' 02"
30	1607.00	242.63	121.55	8° 39' 03"
32	7473.00	192.10	96.06	1° 28' 22"
33	800.00	119.76	59.99	8° 34' 38"

SEE CURB TIE AND GRADING PLANS SHEET 24

CURVE TABLE				
CURVE	RADIUS	LENGTH	TANGENT	DELTA
16	7530.00	111.85	55.93	0° 51' 04"
17	40.00	61.25	38.45	87° 44' 12"
18	7472.00	97.45	48.73	0° 44' 50"
19	30.00	58.44	44.16	111° 37' 08"
26	50.00	63.75	37.03	73° 03' 05"
28	30.00	30.00	16.39	57° 17' 45"
29	7530.00	96.46	48.23	0° 44' 02"
32	7473.00	192.10	96.06	1° 28' 22"

CURVE TABLE				
CURVE	RADIUS	LENGTH	TANGENT	DELTA
34	8.00	21.45	34.12	153° 36' 27"
35	75.00	157.84	131.44	120° 35' 00"
36	102.00	42.48	21.55	23° 51' 43"
37	51.00	82.31	53.25	92° 28' 29"
38	100.00	39.23	19.87	22° 28' 43"
39	50.00	42.65	22.72	48° 52' 16"
40	987.00	26.32	13.16	1° 31' 40"

CURVE TABLE				
CURVE	RADIUS	LENGTH	TANGENT	DELTA
52	3.00	4.52	2.82	86° 24' 06"
53	60.00	24.73	12.54	23° 36' 54"
54	3.00	4.94	3.24	94° 21' 39"
55	55.00	21.94	11.12	22° 51' 09"
56	10.00	19.66	15.01	112° 38' 50"
58	3.00	4.40	2.71	84° 06' 47"
59	3.00	4.09	2.44	78° 10' 32"
61	15.00	29.49	22.51	112° 38' 50"

WESTON
ROUTE 20 / WELLESLEY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	HSI-0036(022)X	26	71
PROJECT FILE NO.	608940		

DRAINAGE AND UTILITY PLANS

14360_HD(UT).DWG   Plotted on 23-Mar-2026 7:54 AM

ROUTE 20 DRAINAGE STRUCTURE DATA

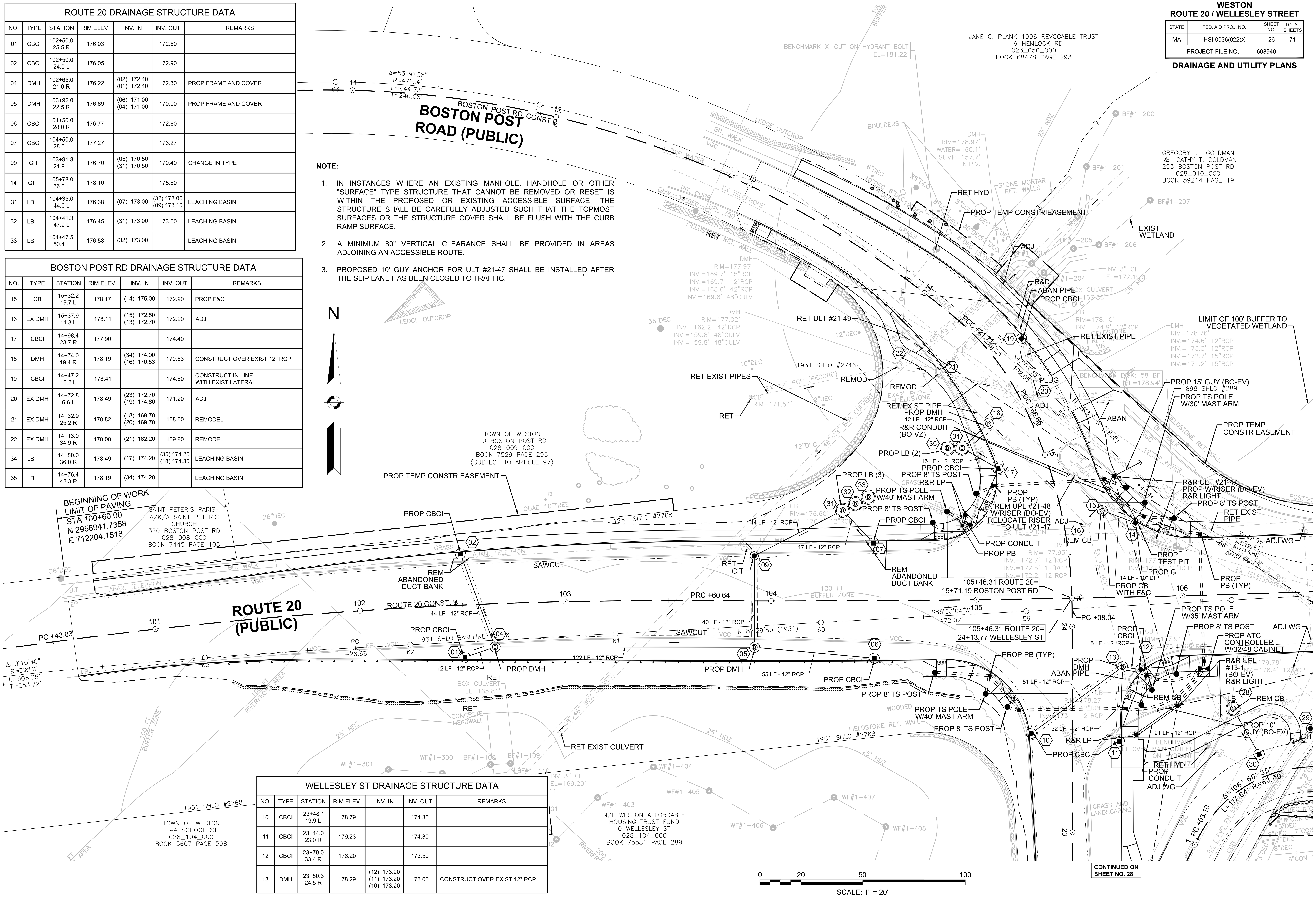
NO.	TYPE	STATION	RIM ELEV.	INV. IN	INV. OUT	REMARKS
01	CBCI	102+50.0 25.5 R	176.03		172.60	
02	CBCI	102+50.0 24.9 L	176.05		172.90	
04	DMH	102+65.0 21.0 R	176.22	(02) 172.40 (01) 172.40	172.30	PROP FRAME AND COVER
05	DMH	103+92.0 22.5 R	176.69	(06) 171.00 (04) 171.00	170.90	PROP FRAME AND COVER
06	CBCI	104+50.0 28.0 R	176.77		172.60	
07	CBCI	104+50.0 28.0 L	177.27		173.27	
09	CIT	103+91.8 21.9 L	176.70	(05) 170.50 (31) 170.50	170.40	CHANGE IN TYPE
14	GI	105+78.0 36.0 L	178.10		175.60	
31	LB	104+35.0 44.0 L	176.38	(07) 173.00	(32) 173.00 (09) 173.10	LEACHING BASIN
32	LB	104+41.3 47.2 L	176.45	(31) 173.00	173.00	LEACHING BASIN
33	LB	104+47.5 50.4 L	176.58	(32) 173.00		LEACHING BASIN

BOSTON POST RD DRAINAGE STRUCTURE DATA

NO.	TYPE	STATION	RIM ELEV.	INV. IN	INV. OUT	REMARKS
15	CB	15+32.2 19.7 L	178.17	(14) 175.00	172.90	PROP F&C
16	EX DMH	15+37.9 11.3 L	178.11	(15) 172.50 (13) 172.70	172.20	ADJ
17	CBCI	14+98.4 23.7 R	177.90		174.40	
18	DMH	14+74.0 19.4 R	178.19	(34) 174.00 (16) 170.53	170.53	CONSTRUCT OVER EXIST 12" RCP
19	CBCI	14+47.2 16.2 L	178.41		174.80	CONSTRUCT IN LINE WITH EXIST LATERAL
20	EX DMH	14+72.8 6.6 L	178.49	(23) 172.70 (19) 174.60	171.20	ADJ
21	EX DMH	14+32.9 25.2 R	178.82	(18) 169.70 (20) 169.70	168.60	REMODEL
22	EX DMH	14+13.0 34.9 R	178.08	(21) 162.20	159.80	REMODEL
34	LB	14+80.0 36.0 R	178.49	(17) 174.20	(35) 174.20 (18) 174.30	LEACHING BASIN
35	LB	14+76.4 42.3 R	178.19	(34) 174.20		LEACHING BASIN

NOTE:

1. IN INSTANCES WHERE AN EXISTING MANHOLE, HANDHOLE OR OTHER "SURFACE" TYPE STRUCTURE THAT CANNOT BE REMOVED OR RESET IS WITHIN THE PROPOSED OR EXISTING ACCESSIBLE SURFACE, THE STRUCTURE SHALL BE CAREFULLY ADJUSTED SUCH THAT THE TOPMOST SURFACES OR THE STRUCTURE COVER SHALL BE FLUSH WITH THE CURB RAMP SURFACE.
2. A MINIMUM 80" VERTICAL CLEARANCE SHALL BE PROVIDED IN AREAS ADJOINING AN ACCESSIBLE ROUTE.
3. PROPOSED 10' GUY ANCHOR FOR ULT #21-47 SHALL BE INSTALLED AFTER THE SLIP LANE HAS BEEN CLOSED TO TRAFFIC.



CONTINUED ON SHEET NO. 27

CONTINUED ON SHEET NO. 28

WELLESLEY ST DRAINAGE STRUCTURE DATA

NO.	TYPE	STATION	RIM ELEV.	INV. IN	INV. OUT	REMARKS
10	CBCI	23+48.1 19.9 L	178.79		174.30	
11	CBCI	23+44.0 23.0 R	179.23		174.30	
12	CBCI	23+79.0 33.4 R	178.20		173.50	
13	DMH	23+80.3 24.5 R	178.29	(12) 173.20 (11) 173.20 (10) 173.20	173.00	CONSTRUCT OVER EXIST 12" RCP

WESTON
ROUTE 20 / WELLESLEY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	HSI-0036(022)X	27	71
PROJECT FILE NO.	608940		

DRAINAGE AND UTILITY PLANS

14360_HD(UT).DWG Plotted on 23-Mar-2026 7:55 AM

ROUTE 20 DRAINAGE STRUCTURE DATA

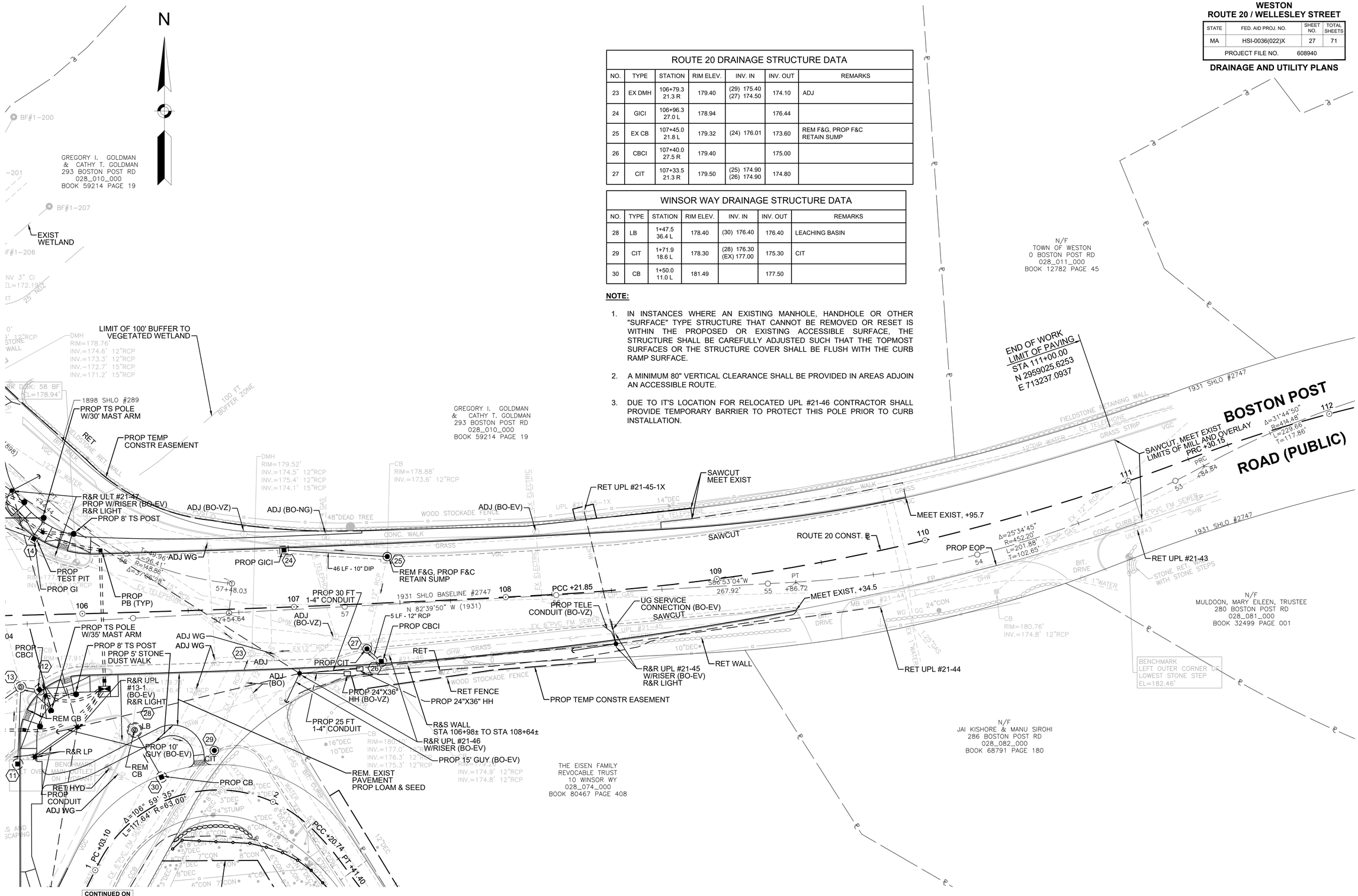
NO.	TYPE	STATION	RIM ELEV.	INV. IN	INV. OUT	REMARKS
23	EX DMH	106+79.3 21.3 R	179.40	(29) 175.40 (27) 174.50	174.10	ADJ
24	GICI	106+96.3 27.0 L	178.94		176.44	
25	EX CB	107+45.0 21.8 L	179.32	(24) 176.01	173.60	REM F&G, PROP F&C RETAIN SUMP
26	CBCI	107+40.0 27.5 R	179.40		175.00	
27	CIT	107+33.5 21.3 R	179.50	(25) 174.90 (26) 174.90	174.80	

WINSOR WAY DRAINAGE STRUCTURE DATA

NO.	TYPE	STATION	RIM ELEV.	INV. IN	INV. OUT	REMARKS
28	LB	1+47.5 36.4 L	178.40	(30) 176.40	176.40	LEACHING BASIN
29	CIT	1+71.9 18.6 L	178.30	(28) 176.30 (EX) 177.00	175.30	CIT
30	CB	1+50.0 11.0 L	181.49		177.50	

NOTE:

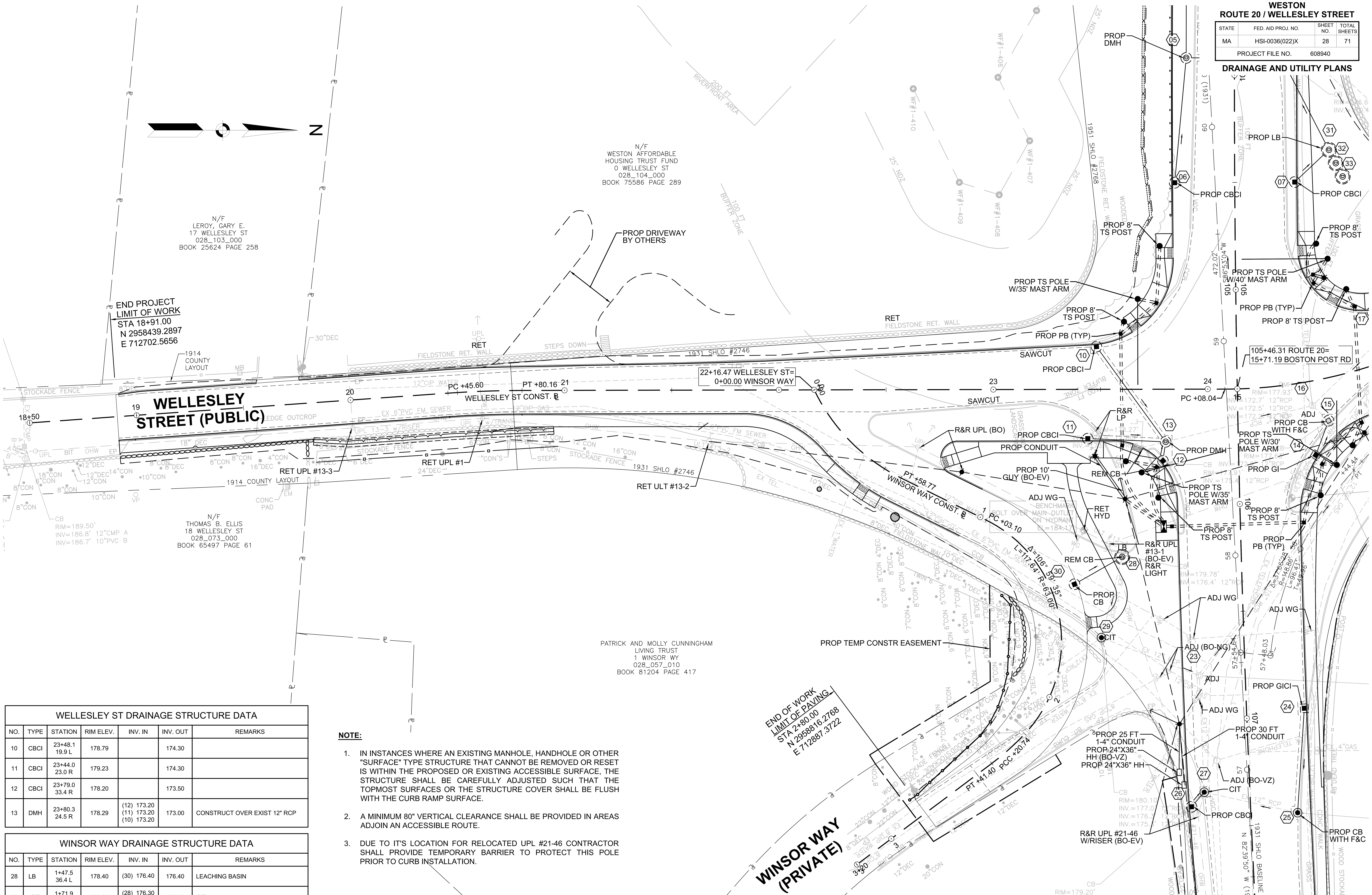
1. IN INSTANCES WHERE AN EXISTING MANHOLE, HANDHOLE OR OTHER "SURFACE" TYPE STRUCTURE THAT CANNOT BE REMOVED OR RESET IS WITHIN THE PROPOSED OR EXISTING ACCESSIBLE SURFACE, THE STRUCTURE SHALL BE CAREFULLY ADJUSTED SUCH THAT THE TOPMOST SURFACES OR THE STRUCTURE COVER SHALL BE FLUSH WITH THE CURB RAMP SURFACE.
2. A MINIMUM 80" VERTICAL CLEARANCE SHALL BE PROVIDED IN AREAS ADJOIN AN ACCESSIBLE ROUTE.
3. DUE TO IT'S LOCATION FOR RELOCATED UPL #21-46 CONTRACTOR SHALL PROVIDE TEMPORARY BARRIER TO PROTECT THIS POLE PRIOR TO CURB INSTALLATION.



WESTON
ROUTE 20 / WELLESLEY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	HSI-0036(022)X	28	71
PROJECT FILE NO. 608940			

DRAINAGE AND UTILITY PLANS



WELLESLEY ST DRAINAGE STRUCTURE DATA						
NO.	TYPE	STATION	RIM ELEV.	INV. IN	INV. OUT	REMARKS
10	CBCI	23+48.1 19.9 L	178.79		174.30	
11	CBCI	23+44.0 23.0 R	179.23		174.30	
12	CBCI	23+79.0 33.4 R	178.20		173.50	
13	DMH	23+80.3 24.5 R	178.29	(12) 173.20 (11) 173.20 (10) 173.20	173.00	CONSTRUCT OVER EXIST 12" RCP

WINSOR WAY DRAINAGE STRUCTURE DATA						
NO.	TYPE	STATION	RIM ELEV.	INV. IN	INV. OUT	REMARKS
28	LB	1+47.5 36.4 L	178.40	(30) 176.40	176.40	LEACHING BASIN
29	CIT	1+71.9 18.6 L	178.30	(28) 176.30 (EX) 177.00	175.30	CIT
30	CB	1+50.0 11.0 L	181.49		177.50	

NOTE:

1. IN INSTANCES WHERE AN EXISTING MANHOLE, HANDHOLE OR OTHER "SURFACE" TYPE STRUCTURE THAT CANNOT BE REMOVED OR RESET IS WITHIN THE PROPOSED OR EXISTING ACCESSIBLE SURFACE, THE STRUCTURE SHALL BE CAREFULLY ADJUSTED SUCH THAT THE TOPMOST SURFACES OR THE STRUCTURE COVER SHALL BE FLUSH WITH THE CURB RAMP SURFACE.
2. A MINIMUM 80" VERTICAL CLEARANCE SHALL BE PROVIDED IN AREAS ADJOIN AN ACCESSIBLE ROUTE.
3. DUE TO IT'S LOCATION FOR RELOCATED UPL #21-46 CONTRACTOR SHALL PROVIDE TEMPORARY BARRIER TO PROTECT THIS POLE PRIOR TO CURB INSTALLATION.

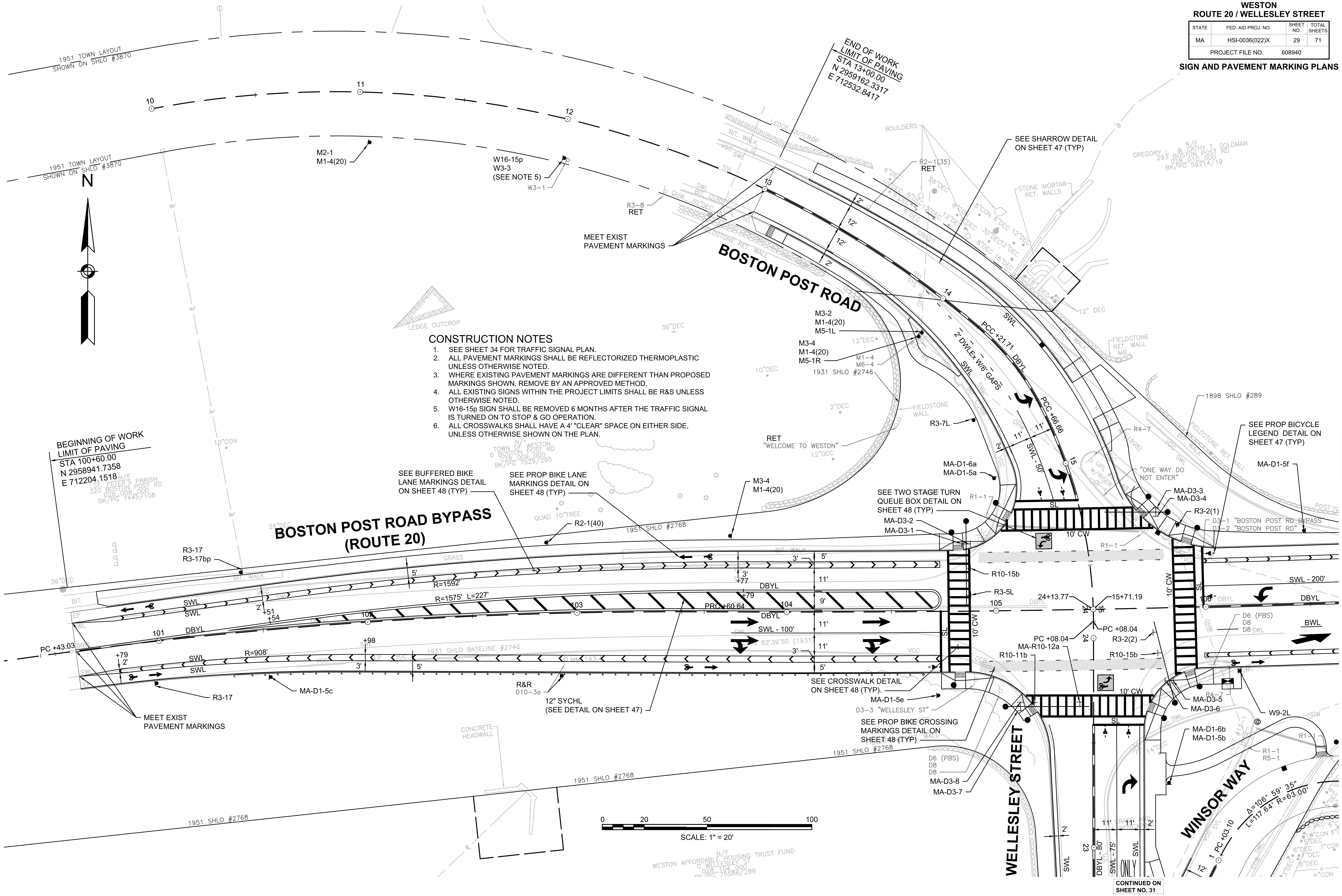
14360_HD(UT).DWG Plotted on 23-Mar-2026 7:57 AM

WESTON
ROUTE 20 / WELLESLEY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	HSI-0036(022)X	29	71
PROJECT FILE NO.	608940		

SIGN AND PAVEMENT MARKING PLANS

14360_HD(TSIG).DWG   Plotted on 30-Jan-2026 1:27 PM



BOSTON POST ROAD BYPASS (ROUTE 20)
BOSTON POST ROAD
WELLESLEY STREET
WINSOR WAY
END OF WORK LIMIT OF PAVING STA 13+00.00 N 2959162.3317 E 712532.8417
BEGINNING OF WORK LIMIT OF PAVING STA 100+60.00 N 2958941.7358 E 712204.1518
MEET EXIST PAVEMENT MARKINGS
SEE SHARROW DETAIL ON SHEET 47 (TYP)
SEE PROP BICYCLE LEGEND DETAIL ON SHEET 47 (TYP)
SEE BUFFERED BIKE LANE MARKINGS DETAIL ON SHEET 48 (TYP)
SEE PROP BIKE LANE MARKINGS DETAIL ON SHEET 48 (TYP)
SEE TWO STAGE TURN QUEUE BOX DETAIL ON SHEET 48 (TYP)
SEE CROSSWALK DETAIL ON SHEET 48 (TYP).
SEE PROP BIKE CROSSING MARKINGS DETAIL ON SHEET 48 (TYP)
12" SYCHL (SEE DETAIL ON SHEET 47)
W16-15p W3-3 (SEE NOTE 5)
N

CONSTRUCTION NOTES

1. SEE SHEET 34 FOR TRAFFIC SIGNAL PLAN.
2. ALL PAVEMENT MARKINGS SHALL BE REFLECTORIZED THERMOPLASTIC UNLESS OTHERWISE NOTED.
3. WHERE EXISTING PAVEMENT MARKINGS ARE DIFFERENT THAN PROPOSED MARKINGS SHOWN, REMOVE BY AN APPROVED METHOD.
4. ALL EXISTING SIGNS WITHIN THE PROJECT LIMITS SHALL BE R&S UNLESS OTHERWISE NOTED.
5. W16-15p SIGN SHALL BE REMOVED 6 MONTHS AFTER THE TRAFFIC SIGNAL IS TURNED ON TO STOP & GO OPERATION.
6. ALL CROSSWALKS SHALL HAVE A 4' "CLEAR" SPACE ON EITHER SIDE, UNLESS OTHERWISE SHOWN ON THE PLAN.

0 20 50 100

SCALE: 1" = 20'

CONTINUED ON SHEET NO. 30

CONTINUED ON SHEET NO. 31

WESTON
ROUTE 20 / WELLESLEY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	HSI-0036(022)X	30	71
PROJECT FILE NO.	608940		

SIGN AND PAVEMENT MARKING PLANS

14360_HD(TSIG).DWG Plotted on 30-Jan-2026 1:28 PM

N

N/F
GREGORY I. & CATHY T. GOLDMAN
293 BOSTON POST RD
028_010_000
BK/PG 59214/19

STONE WALL

1898 SHLO #289

FIELDSTONE RET. WALL

R4-7

SEE CROSSWALK DETAIL ON SHEET 48 (TYP)

D3-1 "BOSTON POST RD BYPASS"
D3-2 "BOSTON POST RD"

MA-D1-5f

"BOSTON POST ROAD"

"ONE WAY DO NOT ENTER"

R3-2(1)

R1-1

CONTINUED ON SHEET NO. 29

SEE BUFFERED BIKE LANE MARKINGS DETAIL ON SHEET 48 (TYP)

SEE PROP BIKE LANE MARKINGS DETAIL ON SHEET 48 (TYP)

R3-7L

R3-17

END OF WORK
LIMIT OF PAVING
STA 111+00.00
N 2959025.6253
E 713237.0937

W2-1
W16-8aP
"← WELLESLEY ST"
"BOSTON POST RD →"

MEET EXIST PAVEMENT MARKINGS

BOSTON POST ROAD (ROUTE 20)

MA-D1-5d

PRC +30.15

112

111

110

109

108

107

SWL - 200'

2' DWLEx W/6' GAPS

PCC +21.85

OFFSET: 27.09
+27.14

R2-1(40)

W4-2R

M3-2
M1-4(20)

M1-4
M3-2

D3-3 "WINSOR WAY"

SEE LANE REDUCTION ARROW DETAIL ON SHEET 47 (TYP)

W9-2L

MA-D1-6b
MA-D1-5b

R1-1
R5-1

WINSOR WAY

Δ=106° 59' 35"
L=117.64'
R=63.00'

PC +03.10

PCC +20.74

PT +41.40

CONTINUED ON SHEET NO. 31

R3-17
R3-17bp

N/F
MULDOON, MARY EILEEN, TRUSTEE
280 BOSTON POST RD
028_081_000
BK/PG 32499/001

N/F
JAI KISHORE & MANU SIROHI
286 BOSTON POST RD
028_082_000
BK/PG 68731/180

N/F
THE EISEN FAMILY REVOCABLE TRUST
10 WINSOR WY
028_074_000
BK/PG 80467/408

CONSTRUCTION NOTES

1. SEE SHEET 34 FOR TRAFFIC SIGNAL PLAN.
2. ALL PAVEMENT MARKINGS SHALL BE REFLECTORIZED THERMOPLASTIC.
3. WHERE EXISTING PAVEMENT MARKINGS ARE DIFFERENT THAN PROPOSED MARKINGS SHOWN, REMOVE BY AN APPROVED METHOD.
4. ALL EXISTING SIGNS WITHIN THE PROJECT LIMITS SHALL BE R&S UNLESS OTHERWISE NOTED.
5. ALL CROSSWALKS SHALL HAVE A 4' "CLEAR" SPACE ON EITHER SIDE, UNLESS OTHERWISE SHOWN ON THE PLAN.

0 20 50 100

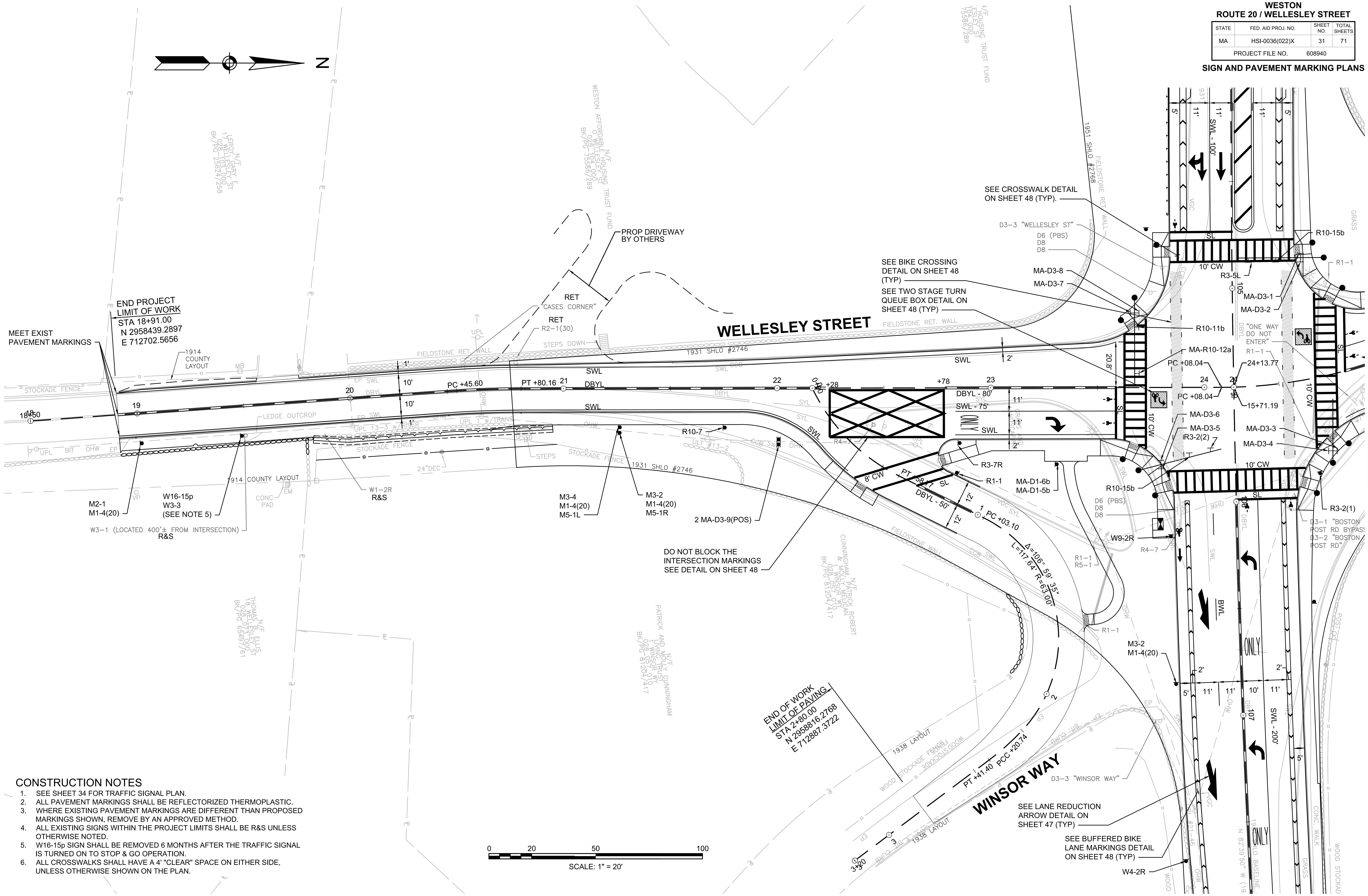
SCALE: 1" = 20'

WESTON
ROUTE 20 / WELLESLEY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	HSI-0036(022)X	31	71
	PROJECT FILE NO. 608940		

SIGN AND PAVEMENT MARKING PLANS

Plotted on 30-Jan-2026 1:28 PM
14360_HD(TSIG).DWG



N
WELLESLEY STREET
WINSOR WAY
END PROJECT
LIMIT OF WORK
STA 18+91.00
N 2958439.2897
E 712702.5656
MEET EXIST PAVEMENT MARKINGS
PROP DRIVEWAY BY OTHERS
RET "CASES CORNER"
RET R2-1(30)
FIELDSTONE RET. WALL
STEPS DOWN
1931 SHLO #2746
1914 COUNTY LAYOUT
STOCKADE FENCE
LEDGE OUTCROP
PC +45.60
PT +80.16
SWL
DBYL
DBYL - 80'
SWL - 75'
ONLY
R10-7
R4-7
R3-7R
R1-1
MA-D1-6b
MA-D1-5b
8' CW
PT +38.47
DBYL - 50'
PC +03.10
Δ=106° 59' 35"
L=117.64' R=63.00'
M2-1
M1-4(20)
W16-15p
W3-3
(SEE NOTE 5)
W1-2R
R&S
W3-1 (LOCATED 400'± FROM INTERSECTION)
R&S
M3-4
M1-4(20)
M5-1L
M3-2
M1-4(20)
M5-1R
2 MA-D3-9(POS)
DO NOT BLOCK THE INTERSECTION MARKINGS SEE DETAIL ON SHEET 48
SEE BIKE CROSSING DETAIL ON SHEET 48 (TYP)
SEE TWO STAGE TURN QUEUE BOX DETAIL ON SHEET 48 (TYP)
SEE CROSSWALK DETAIL ON SHEET 48 (TYP).
D3-3 "WELLESLEY ST"
D6 (PBS)
D8
D8
MA-D3-8
MA-D3-7
R10-15b
R1-1
10' CW
R3-5L
MA-D3-1
MA-D3-2
R10-11b
"ONE WAY DO NOT ENTER"
MA-R10-12a
PC +08.04
24+13.77
15+71.19
MA-D3-6
MA-D3-5
R3-2(2)
MA-D3-3
MA-D3-4
R3-2(1)
D3-1 "BOSTON POST RD BYPASS"
D3-2 "BOSTON POST RD"
W9-2R
R4-7
R1-1
R5-1
M3-2
M1-4(20)
SWL - 100'
SWL - 200'
BWL
END OF WORK
LIMIT OF PAVING
STA 2+80.00
N 2958816.2768
E 712887.3722
PT +41.40
PCC +20.74
D3-3 "WINSOR WAY"
SEE LANE REDUCTION ARROW DETAIL ON SHEET 47 (TYP)
SEE BUFFERED BIKE LANE MARKINGS DETAIL ON SHEET 48 (TYP)
W4-2R
0 20 50 100
SCALE: 1" = 20'

CONTINUED ON SHEET NO. 29

CONTINUED ON SHEET NO. 30

CONSTRUCTION NOTES

1. SEE SHEET 34 FOR TRAFFIC SIGNAL PLAN.
2. ALL PAVEMENT MARKINGS SHALL BE REFLECTORIZED THERMOPLASTIC.
3. WHERE EXISTING PAVEMENT MARKINGS ARE DIFFERENT THAN PROPOSED MARKINGS SHOWN, REMOVE BY AN APPROVED METHOD.
4. ALL EXISTING SIGNS WITHIN THE PROJECT LIMITS SHALL BE R&S UNLESS OTHERWISE NOTED.
5. W16-15p SIGN SHALL BE REMOVED 6 MONTHS AFTER THE TRAFFIC SIGNAL IS TURNED ON TO STOP & GO OPERATION.
6. ALL CROSSWALKS SHALL HAVE A 4' "CLEAR" SPACE ON EITHER SIDE, UNLESS OTHERWISE SHOWN ON THE PLAN.

WESTON
ROUTE 20 / WELLESLEY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	HSI-0036(022)X	32	71
PROJECT FILE NO.	608940		

TRAFFIC SIGN SUMMARY

TRAFFIC SIGN SUMMARY

IDENTIFICATION NUMBER	SIZE OF SIGN WIDTH	SIZE OF SIGN HEIGHT	TEXT	TEXT DIMENSIONS (INCHES) LETTER HEIGHT	TEXT DIMENSIONS (INCHES) VERTICAL SPACING	TEXT DIMENSIONS (INCHES) ARROW RTE. MKR.	NUMBER OF SIGNS REQUIRED	COLOR BACK–GROUND	COLOR LEGEND	COLOR BORDER	POST SIZE AND NUMBER REQUIRED	UNIT AREA (S.F.)	AREA IN SQUARE FEET
R1-1	30"	30"	STOP	SEE FHWA "STANDARD HIGHWAY SIGNS, 2004 EDITION"; AS AMENDED			1	RED	WHITE	WHITE	P5-1	5.18	5.18
R2-1(40)	24"	30"	SPEED LIMIT 40				2	WHITE	BLACK	BLACK	P5-2	5.00	10.00
R3-2 (1)	24"	24"					1	WHITE	RED/ BLACK	BLACK	P5-1	4.00	4.00
R3-2 (2)	36"	36"					1	WHITE	RED/ BLACK	BLACK	1 MTD ON MAST ARM	9.00	9.00
R3-5L	30"	36"	ONLY				1	WHITE	BLACK	BLACK	1 MTD ON MAST ARM	7.50	7.50
R3-7L	30"	30"	LEFT LANE MUST TURN LEFT				2	WHITE	BLACK	BLACK	P5-2	6.25	12.50
R3-7R	30"	30"	RIGHT LANE MUST TURN RIGHT				1	WHITE	BLACK	BLACK	P5-1	6.25	6.25
R3-17	24"	18"	BIKE LANE				4	BLACK --- WHITE	WHITE --- BLACK	WHITE --- BLACK	P5-4	3.00	12.00
R3-17bp	24"	8"	ENDS				2	WHITE	BLACK	BLACK	2 MTD W/OTHER	1.33	2.66
R10-3e(L)	9"	15"	START CROSSING Watch For Vehicles / DON'T START Finish Crossing If Started TIME REMAINING To Finish Crossing / DON'T CROSS / PUSH BUTTON TO CROSS				4	WHITE	WHITE/ BLACK/ ORANGE	BLACK	4 MTD ON TS POST/POLE	PAID FOR UNDER ITEM 815.1	
R10-3e(R)	9"	15"	START CROSSING Watch For Vehicles / DON'T START Finish Crossing If Started TIME REMAINING To Finish Crossing / DON'T CROSS / PUSH BUTTON TO CROSS				4	WHITE	WHITE/ BLACK ORANGE	BLACK	4 MTD ON TS POST/POLE	PAID FOR UNDER ITEM 815.1	
R10-7	24"	30"	DO NOT BLOCK INTERSECTION				1	WHITE	BLACK	BLACK	P5-1	5.00	5.00
R10-11b	30"	30"	NO TURN ON RED				1	WHITE	BLACK	BLACK	1 MTD ON MAST ARM	6.25	6.25
R10-15b	30"	36"	TURNING VEHICLES TO				2	WHITE/ FLOURE-SCENT YELLOW-GREEN	BLACK/ RED	BLACK	2 MTD ON MAST ARM	7.50	15.00

TRAFFIC SIGN SUMMARY (CONTINUED)

IDENTIFICATION NUMBER	SIZE OF SIGN WIDTH	SIZE OF SIGN HEIGHT	TEXT	TEXT DIMENSIONS (INCHES) LETTER HEIGHT	TEXT DIMENSIONS (INCHES) VERTICAL SPACING	TEXT DIMENSIONS (INCHES) ARROW RTE. MKR.	NUMBER OF SIGNS REQUIRED	COLOR BACK–GROUND	COLOR LEGEND	COLOR BORDER	POST SIZE AND NUMBER REQUIRED	UNIT AREA (S.F.)	AREA IN SQUARE FEET
MA-R10-12a	30"	36"	LEFT TURN YIELD ON FLASHING	AS PER MASSDOT STANDARD			1	WHITE	BLACK/ YELLOW	BLACK	1 MTD ON MAST ARM	7.50	7.50
M1-4(20)	24"	24"	20	SEE FHWA "STANDARD HIGHWAY SIGNS, 2004 EDITION"; AS AMENDED			8	WHITE/ BLACK	BLACK	--	8 MTD W/OTHER	4.00	32.00
M2-1	21"	15"	JCT				2	WHITE	BLACK	BLACK	2 MTD W/OTHER	2.18	4.36
M3-2	24"	12"	EAST				3	WHITE	BLACK	BLACK	P5-3	2.00	6.00
M3-4	24"	12"	WEST				3	WHITE	BLACK	BLACK	P5-3	2.00	6.00
M5-1L	21"	15"					2	WHITE	BLACK	BLACK	2 MTD W/OTHER	2.19	4.38
M5-1R	21"	15"					2	WHITE	BLACK	BLACK	2 MTD W/OTHER	2.19	4.38
W3-3	30"	30"					2	YELLOW	BLACK	BLACK	P5-2	6.25	12.50
W4-2R	30"	30"					1	YELLOW	BLACK	BLACK	P5-1	6.25	6.25
W9-2L	30"	30"	LANE ENDS MERGE LEFT				1	YELLOW	BLACK	BLACK	P5-1	6.25	6.25
W16-15P	24"	12"	NEW				2	YELLOW	BLACK	BLACK	2 MTD W/OTHER	2.00	4.00

NOTES:
1. GUIDE AND TRAFFIC SIGN DETAILS SHALL BE AS PER THE 2009 MUTCD, THE FHWA 2004 STANDARD HIGHWAY SIGNS BOOK WITH THE 2012 SUPPLEMENT, AND THE MASSDOT STANDARD SIGNS BOOK. RETROREFLECTIVE SHEETING FOR ALL GUIDE AND TRAFFIC SIGNS SHALL CONFORM TO SUBSECTION M9.30.0 OF THE MASSDOT STANDARD SPECIFICATIONS.
2. POS = PRINTED ONE SIDE

WESTON
ROUTE 20 / WELLESLEY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	HSI-0036(022)X	33	71
PROJECT FILE NO.	608940		

TRAFFIC SIGN SUMMARY

TRAFFIC SIGN SUMMARY (CONTINUED)

IDENTIFI–CATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR			POST SIZE AND NUMBER REQUIRED	UNIT AREA (S.F.)	AREA IN SQUARE FEET
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK–GROUND	LEGEND	BORDER			
MA-D3-1 (POS)	72"	18"	Boston Post Rd	8D/5.33D	5" 5"	N/A	1	GREEN	WHITE	WHITE	1 MTD ON TS MAST ARM	PAID FOR UNDER ITEM 874	
MA-D3-2 (POS)	84"	18"	Boston Post Rd →	8D/5.33D	5" 5"	9" @ 180°	1	GREEN	WHITE	WHITE	1 MTD ON TS MAST ARM	PAID FOR UNDER ITEM 874	
MA-D3-3 (POS)	102"	18"	← 20 Boston Post Rd	15"/8D/5.33D	5" 5"	9" @ 0°	1	GREEN	WHITE	WHITE	1 MTD ON TS MAST ARM	PAID FOR UNDER ITEM 874	
MA-D3-4 (POS)	102"	18"	Boston Post Rd 20 →	15"/8D/5.33D	5" 5"	9" @ 180°	1	GREEN	WHITE	WHITE	1 MTD ON TS MAST ARM	PAID FOR UNDER ITEM 874	
MA-D3-5 (POS)	72"	18"	← Wellesley St	8D/5.33D	5" 5"	9" @ 0°	1	GREEN	WHITE	WHITE	1 MTD ON TS MAST ARM	PAID FOR UNDER ITEM 874	
MA-D3-6 (POS)	72"	18"	Wellesley St →	8D/5.33D	5" 5"	9" @ 180°	1	GREEN	WHITE	WHITE	1 MTD ON TS MAST ARM	PAID FOR UNDER ITEM 874	
MA-D3-7 (POS)	120"	18"	← 20 Boston Post Rd Byp	15"/8D/5.33D	5" 5"	9" @ 0°	1	GREEN	WHITE	WHITE	1 MTD ON TS MAST ARM	PAID FOR UNDER ITEM 874	
MA-D3-8 (POS)	120"	18"	20 Boston Post Rd Byp →	15"/8D/5.33D	5" 5"	9" @ 180°	1	GREEN	WHITE	WHITE	1 MTD ON TS MAST ARM	PAID FOR UNDER ITEM 874	
MA-D3-9 (POS)	54"	12"	Winsor Way 6" CITY SEAL (SEE NOTE 3)	6D/4D	2.75" 3.25"	N/A	2	GREEN	WHITE	WHITE	P5-2	PAID FOR UNDER ITEM 874	

TRAFFIC SIGN SUMMARY (CONTINUED

IDENTIFI–CATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR			POST SIZE AND NUMBER REQUIRED	UNIT AREA (S.F.)	AREA IN SQUARE FEET
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK–GROUND	LEGEND	BORDER			
MA-D1-5c	60"	60"	Wellesley St / Regis College NEXT RIGHT (0.8")	7"D 7"D 7"D 6"D	6.6" 5.5" 4" 4" 5.5" 6.6"	N/A	1	GREEN	WHITE	WHITE	5" TUBULAR POST (1)	25.00	25.00
MA-D1-5d	60"	60"	Wellesley St / Regis College NEXT LEFT (0.8")	7"D 7"D 7"D 6"D	6.6" 5.5" 4" 4" 5.5" 6.6"	N/A	1	GREEN	WHITE	WHITE	5" TUBULAR POST (1)	25.00	25.00
MA-D1-6a	54"	60"	20 EAST Waltham Boston ←	18"/7"/6"C 7"D 7"D	3.8" 3" 3.5" 3.5" 6.1"	8.1"x18" @ 180°	1	GREEN	WHITE	WHITE	5" TUBULAR POST (1)	22.50	22.50
MA-D1-5a	54"	48"	20 WEST Wayland →	18"/7"/6"C 7"D	3.8" 3" 4" 4.1"	8.1"x18" @ 0°	1	GREEN	WHITE	WHITE	MOUNT WITH MA-D1-6a	18.00	18.00
MA-D1-6b	54"	60"	20 EAST Waltham Boston →	18"/7"/6"D 7"D 7"D	3.8" 3" 3.5" 3.5" 6.1"	8.1"x18" @ 0°	1	GREEN	WHITE	WHITE	5" TUBULAR POST (1)	22.50	22.50
MA-D1-5b	54"	48"	20 WEST Wayland ←	18"/7"/6"D 7"D	3.8" 3" 4" 4.1"	8.1"x18" @ 180°	1	GREEN	WHITE	WHITE	MOUNT WITH MA-D1-6b	18.00	18.00
MA-D1-5e	66"	48"	Regis College Wellesley →	8"D 8"D	7.9" 6" 6" 4"	8.1"x18" @ 0°	1	GREEN	WHITE	WHITE	5" TUBULAR POST (1)	22.00	22.00
MA-D1-5f	66"	48"	Regis College Wellesley ←	8"D 8"D	7.9" 6" 6" 4"	8.1"x18" @ 0°	1	GREEN	WHITE	WHITE	5" TUBULAR POST (1)	22.00	22.00

NOTES:
1. GUIDE AND TRAFFIC SIGN DETAILS SHALL BE AS PER THE 2009 MUTCD, THE FHWA 2004 STANDARD HIGHWAY SIGNS BOOK WITH THE 2012 SUPPLEMENT, AND THE MASSDOT STANDARD SIGNS BOOK. RETROREFLECTIVE SHEETING FOR ALL GUIDE AND TRAFFIC SIGNS SHALL CONFORM TO SUBSECTION M9.30.0 OF THE MASSDOT STANDARD SPECIFICATIONS.
2. POS = PRINTED ONE SIDE
3. *CONTRACTOR TO COORDINATE WITH TOWN REGARDING TOWN SEAL.

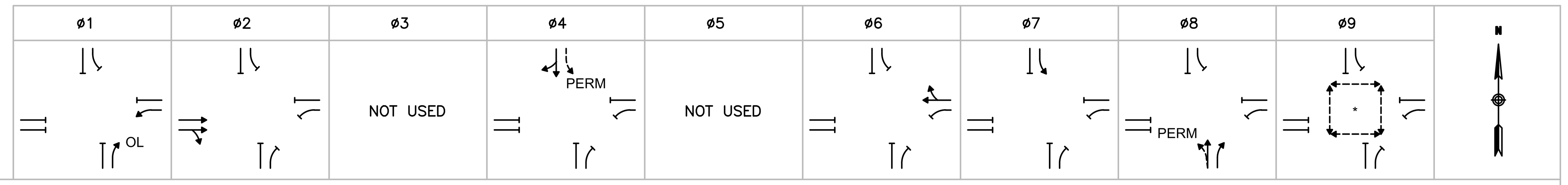
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	HSI-0036(022)X	34	71
PROJECT FILE NO. 608940			

TRAFFIC SIGNAL PLANS

Plotted on 30-Jan-2026 2:27 PM
14360_HD(TSIG).DWG

CONSTRUCTION NOTES

1. SEE SHEET 35 FOR TRAFFIC SIGNAL DATA. SEE SHEETS 29-31 FOR SIGNING AND STRIPING PLAN
2. PULL BOXES SHALL BE ADJACENT TO CURB UNLESS OTHERWISE NOTED AND SHALL NOT BE LOCATED IN WHEELCHAIR RAMPS.
3. THE TOP OF ALL MAST ARM FOUNDATIONS IN GRASSY AREAS SHALL BE LOCATED 3"± ABOVE FINISHED GRADE.
4. TS POST/POLE, WITH PEDESTRIAN PUSH BUTTON, NOT LOCATED WITHIN A PAVED SURFACE SHALL BE POSITIONED SO AS TO PROVIDE A 10" MAX CLEAR REACH ZONE BETWEEN THE PEDESTRIAN PUSH BUTTON AND THE PAVED SURFACE PER 521 CMR AND AS SHOWN IN THE CONSTRUCTION DETAILS.



SEQUENCE AND TIMING FOR FULLY ACTUATED CONTROL (ISOLATED)

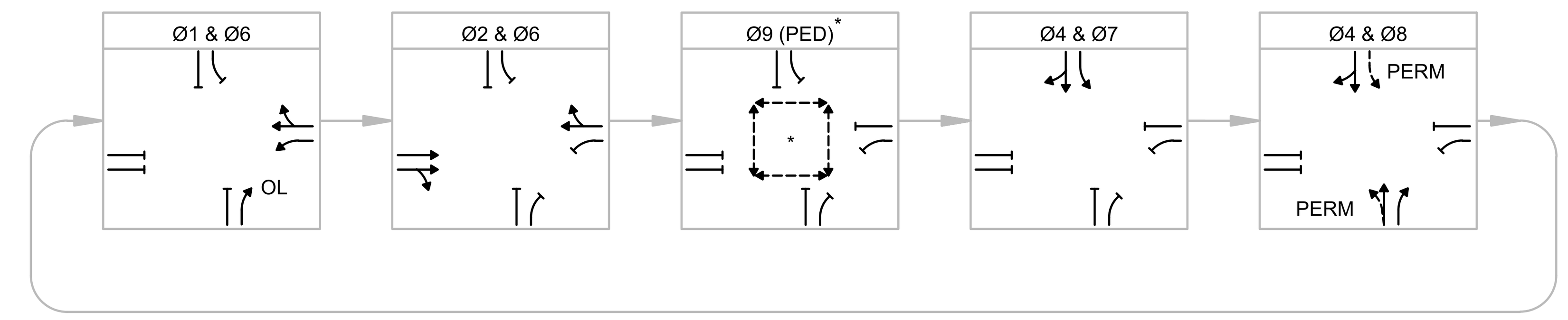
APPROACH	DIRECTION	HOUSING	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	FLASH
ROUTE 20	WB	A,B	←G–	←Y–	←R–	←R–	←R–	←R–				←R–	←R–	←R–				←R–	←R–	←R–	←R–	←R–	←R–	←R–	←R–	←R–	←R–	←R–	←R–	←FR–
ROUTE 20	WB	C,D,E	R	R	R	R	R	R				R	R	R				G	Y	R	R	R	R	R	R	R	R	R	R	FY
ROUTE 20	EB	F	R	R	R	↑G	Y	R				R	R	R				R	R	R	R	R	R	R	R	R	R	R	R	FY
ROUTE 20	EB	G,H	R	R	R	G	Y	R				R	R	R				R	R	R	R	R	R	R	R	R	R	R	R	FY
BOSTON POST ROAD	SB	K,J	←R–	←R–	←R–	←R–	←R–	←R–				←FY–	←Y–	←R–				←R–	←R–	←R–	←G–	←Y–	←R–	←R–	←R–	←R–	←R–	←R–	←R–	←FR–
BOSTON POST ROAD	SB	L,M	R	R	R	R	R	R				G	Y	R				R	R	R	R	R	R	R	R	R	R	R	R	FR
WELLESLEY STREET	NB	N,P	R	R	R	R	R	R				R	R	R				R	R	R	R	R	R	G	Y	R	R	R	R	FR
WELLESLEY STREET	NB	Q	R –G→	R –Y→	R	R	R	R				R	R	R				R	R	R	R	R	R	G	Y	R	R	R	R	FR
PEDESTRIAN X-ING	ALL	P1–P8	DW	DW	DW	DW	DW	DW				DW	DW	DW				DW	DW	DW	DW	DW	DW	DW	DW	DW	W	FDW	DW	OUT
TIMING IN SECONDS																														
MINIMUM GREEN (INITIAL)			6			10						6						10			6			6						CONFLICT FLASH OPERATION ONLY
PASSAGE TIME (VEHICLE)			2			2						2						2			2			2						
MAXIMUM 1			20			35						35						60			15			20						
MAXIMUM 2			40			35						20						80			10			15						
YELLOW CLEARANCE				3.5			4.5						4.5						4.5			3.5			4.5					
RED CLEARANCE					3			1						1.5						1			3			1.5			4	
PEDESTRIAN WALK																											7			
PEDESTRIAN CLEARANCE																												14		
DETECTOR MEMORY			NON-LOCK			NON-LOCK						NON-LOCK						NON-LOCK			NON-LOCK			NON-LOCK			LOCK			
RECALL			OFF			MIN						OFF						MIN			OFF			OFF			–			

NOTES:
1. AUTOMATIC FLASHING OPERATION PER 2009 M.U.T.C.D., AS AMENDED.
2. * UPON PEDESTRIAN PUSH BUTTON ACTUATION
3. OL = OVERLAP
4. PERM = PERMISSIVE
5. Ø4 & Ø8 DUAL ENTRY
6. MAXIMUM 1 = NORMAL OPERATION
7. MAXIMUM 2 = MON-FRI 2:00PM-7:00PM
8. STOP AND GO OPERATION FOR 24 HOURS PER DAY. FLASHING OPERATION FOR EMERGENCY ONLY.
9. DURING PEDESTRIAN INTERVAL, FDW THROUGH YELLOW OPERATION SHALL NOT BE IN EFFECT.

SEQUENCE & TIMING NOTES:

1. IF THE ASSIGNED RIGHT OF WAY FOR ANY TRAFFIC MOVEMENT IS TO REMAIN IN EFFECT DURING THE NEXT CALLED PHASE, THE SIGNAL INDICATIONS FOR THAT TRAFFIC MOVEMENT WILL NOT CHANGE DURING THE CLEARANCE INTERVAL.
2. THE RIGHT OF WAY MAY BE ASSIGNED TO ANY PHASE OR ANY COMBINATION OF NON-CONFLICTING PHASES.
3. IF CALLS EXIST ON ALL PHASES, THE ASSIGNMENT OF RIGHT OF WAY SHALL BE IN ACCORDANCE WITH THE PREFERENTIAL PHASE SEQUENCE.
4. IF THE ASSIGNED RIGHT-OF-WAY FOR ANY TRAFFIC MOVEMENT IS TO CHANGE DURING THE NEXT CALLED PHASE, THE SIGNAL INDICATION FOR THAT MOVEMENT WILL DISPLAY THE APPROPRIATE CLEARANCE INTERVALS.

PREFERENTIAL PHASE SEQUENCE



* UPON PEDESTRIAN PUSH BUTTON ACTUATION
OL = OVERLAP
PERM = PERMISIVE

EMERGENCY VEHICLE PRE-EMPTION OPERATION

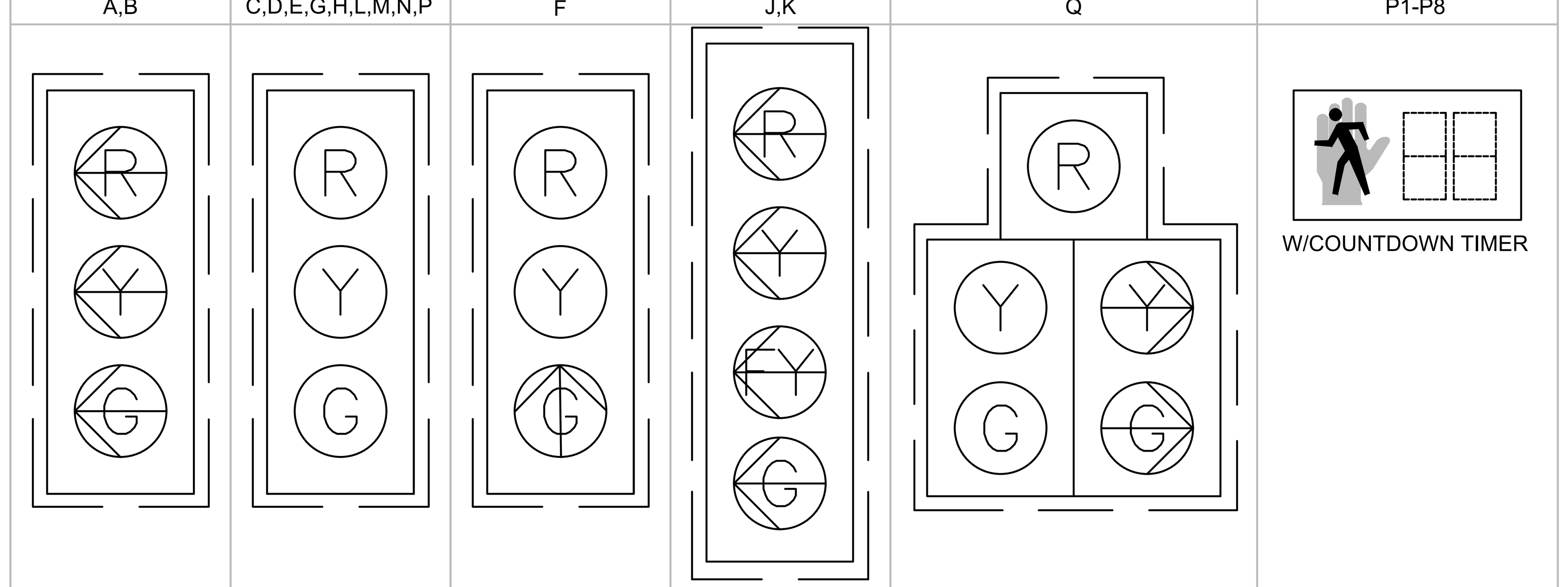
1. EMERGENCY VEHICLE PRE-EMPTION SIGNALS SHALL BE OPTICALLY TRANSMITTED BY OPTICAL EMITTERS MOUNTED IN EMERGENCY VEHICLES AND RECEIVED BY OPTICAL DETECTORS LOCATED AT EACH INTERSECTION.
2. PRE-EMPTION SIGNALS SHALL BE SERVICED ON A PRIORITY BASIS WITH DETECTORS D1, D2, D3 OR D4 ASSIGNED DESCENDING PRIORITIES AS FOLLOWS: (D1 HIGHEST AND D4 LOWEST)
3. IN RESPONSE TO A PRE-EMPTION SIGNAL RECEIVED AT AN INTERSECTION BY OPTICAL DETECTOR D1 (OR D2, D3, D4) THE CONTROLLER SHALL HOLD OR ADVANCE TO AND HOLD IN EMERGENCY VEHICLE PRE-EMPTION PHASE #1 (OR #2, #3, #4) GREEN FOR A MINIMUM OF TEN (10) SECONDS OR UNTIL PRE-EMPTION SIGNAL CEASES. THE CONTROLLER SHALL THEN TIME PRE-EMPTION PHASE CLEARANCES FOR THE ASSOCIATED PHASE(S) AS SHOWN IN THE SEQUENCE AND TIMING CHART AND SERVICE SUBSEQUENT EMERGENCY VEHICLE PRE-EMPTION PHASES AS NECESSARY.
4. MINIMUM GREEN AND NORMAL VEHICLE CLEARANCE SHALL BE PROVIDED ON PHASES THAT ARE TO BE TERMINATED BY PRE-EMPTION DEMAND.
5. PRE-EMPTION STROBE SHALL BE ILLUMINATED WHENEVER ANY EMERGENCY VEHICLE PRE-EMPTION GREEN IS ACTIVE.

PRE-EMPTION PHASING & PRIORITY

DETECTOR & PRIORITY	PRE-EMPT PHASE ASSIGNMENT	MOVEMENT	VEHICLE PHASE ASSIGNMENT
D1	1		Ø2
D2	2		Ø1 & Ø6
D3	3		Ø4 & Ø7
D4	4		Ø8

SIGNAL HEAD DATA

A,B	C,D,E,G,H,L,M,N,P	F	J,K	Q	P1-P8



ALL 12" LENS | ALL 16" DISPLAY

NOTES:
1. ALL SIGNAL HEADS SHALL BE RIGID MOUNTED.
2. ALL SIGNAL HEADS SHALL BE EQUIPPED WITH 5"± NON- LOUVERED BACKPLATES. ALL BACKPLATES SHALL CONTAIN A 3" WIDE YELLOW REFLECTIVE BORDER.
3. ALL SIGNAL HEADS SHALL BE EQUIPPED WITH TUNNEL VISORS.
4. ALL SIGNAL DISPLAYS SHALL BE EQUIPPED WITH L.E.D. MODULES.

LIST OF MAJOR ITEMS REQUIRED

ROUTE 20 AT WELLESLEY STREET AND BOSTON POST ROAD

PAY ITEM	QUANTITY	DESCRIPTION
815.1	1	ATC CONTROLLER IN A 32/48 BASE MOUNTED CABINET INCLUDING FOUNDATION & CONCRETE PAD
	1	FIELD MONITORING UNIT
	1	GPS TIME SYNCH UNIT (FOR FUTURE USE)
	1	TS 30' MAST ARM TYPE 2, STEEL, INCL. FOUNDATION
	1	TS 35' MAST ARM TYPE 2, STEEL, INCL. FOUNDATION
	2	TS 40' MAST ARM TYPE 2, STEEL, INCL. FOUNDATION
	5	TS POST 8' STANDARD INCL. FOUNDATION
	3	TS POST 10' STANDARD INCL. FOUNDATION
	12	SIGNAL HEAD, 3-SECTION, 12" LENSES
	2	SIGNAL HEAD, 4-SECTION, 12" LENSES, W/ FLASHING YELLOW ARROW
	1	SIGNAL HEAD, 5-SECTION, 12" LENSES
	8	PEDESTRIAN SIGNAL HEAD W/COUNTDOWN TIMER
	4	PEDESTRIAN PUSH BUTTON W/R10-3e(L) AND SIGN SADDLE
	4	PEDESTRIAN PUSH BUTTON W/R10-3e(R) AND SIGN SADDLE
	1	VIDEO DETECTION SYSTEM (1 SINGLE-POINT CAMERA. VDP & CABLES)
	4	EMERGENCY PRE-EMPTION OPTICAL DETECTORS & DETECTOR CABLE
	1	EMERGENCY PRE-EMPTION 4 CHANNEL PHASE SELECTOR
	1	EMERGENCY PRE-EMPTION SYSTEM CHASSIS
	1	EMERGENCY PRE-EMPTION STROBE (WHITE LENS)
	1	SERVICE CONNECTION (OVERHEAD)
804.3	550'±	3" CONDUIT, SCHEDULE 80, TYPE NM
811.31	10	PULL BOX-12"x12"

PLUS NECESSARY DUCT, CABLE, LABOR, MISCELLANEOUS MATERIAL AND EQUIPMENT TO COMPLETE THE INSTALLATION AND PROVIDE AN OPERATING TRAFFIC CONTROL SIGNAL.

VIDEO DETECTION DATA

DETECTION ZONE	APPROACH/LANE	CAMERA	DELAY /EXT	CALL PHASE
1	ROUTE 20 WB LEFT-TURN LANE	C1	0	Ø1
2	ROUTE 20 WB THRU/RIGHT LANE	C1	0	Ø6
3	ROUTE 20 EB THRU LANE	C1	0	Ø2
4	ROUTE 20 EB THRU-RIGHT LANE	C1	0	Ø2
5	BOSTON POST RD SB LEFT-TURN LANE (FRONT)	C1	0	Ø7
6	BOSTON POST RD SB LEFT-TURN LANE (BACK)	C1	0	Ø4
7	BOSTON POST RD SB THRU/RIGHT LANE	C1	0	Ø4
8	WELLESLEY ST NB LEFT/THRU LANE	C1	0	Ø8
9	WELLESLEY ST NB RIGHT-TURN LANE	C1	5 SEC DELAY	Ø8
10	TWO STAGE TURN BOX	C1	0	Ø4
11	TWO STAGE TURN BOX	C1	0	Ø8

1. NOTE: DELAY AND EXTENSION TIMINGS SHALL BE PROGRAMMED IN THE CONTROLLER ONLY
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SETTING PROP DETECTION ZONES AS SHOWN ON THE PLANS AND SHALL ADJUST/ RE-ADJUST DETECTION ZONES IN THE PRESENCE OF THE ENGINEER

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GENERAL NOTES

1. ALL CONSTRUCTION SIGNING, TEMPORARY TRAFFIC CONTROL DEVICES, AND ROADSIDE ELEMENTS SHALL CONFORM WITH THE 2009 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AS AMENDED, THE MASSDOT STANDARD DETAILS AND DRAWINGS FOR THE DEVELOPMENT OF TEMPORARY TRAFFIC CONTROL PLANS, THE LATEST REVISIONS OF THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, (AASHTO) ROADSIDE DESIGN GUIDE, AASHTO POLICY ON GEOMETRIC DESIGN OF HIGHWAYS AND STREETS, AND NATIONAL COOPERATIVE HIGHWAY RESEARCH PROGRAM (NCHRP) REPORT 350 OR THE AASHTO MANUAL FOR ASSESSING SAFETY HARDWARE (MASH).
2. WORK HOURS SHALL BE 7:00AM TO 3:00PM MONDAY THRU FRIDAY UNLESS OTHERWISE APPROVED BY MASSDOT AND THE TOWN OF WESTON. WORK IMPACTING THE TRAVEL WAY WILL NOT BE ALLOWED DURING PEAK TRAFFIC PERIODS. PEAK PERIODS ARE DEFINED AS MONDAY THRU FRIDAY, 6:00AM TO 10:00AM AND 3:00PM TO 7:00PM. NIGHT WORK (SUN-THU 9PM-5AM) MAY BE REQUIRED BY MASSDOT FOR CERTAIN WORK ACTIVITIES SUCH AS PAVEMENT MILLING AND PAVING OPERATIONS TO AVOID MAJOR IMPACTS DURING THE DAY.
3. NO WORK SHALL OCCUR WITHIN THE PUBLIC WAY THE DAY BEFORE, AFTER OR ON A STATE RECOGNIZED HOLIDAY UNLESS OTHERWISE APPROVED BY THE ENGINEER.
4. ALL TEMPORARY PEDESTRIAN PATHWAYS SHALL COMPLY FULLY WITH ALL REQUIREMENTS OF THE MUTCD AND ALL APPLICABLE MASSACHUSETTS ARCHITECTURAL ACCESS BOARD (MAAB) AND AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG) REQUIREMENTS AND PUBLIC RIGHTS-OF WAY ACCESSIBILITY GUIDELINES (PROWAG).
5. ALL DRUMS OUTSIDE TAPERS SHALL BE SET AT 20' ON CENTER MAX. UNLESS OTHERWISE NOTED OR ADJUSTED BY THE ENGINEER.
6. ALL DRUMS SHALL BE APPROXIMATELY PLACED AND MOVED AS NECESSARY TO MAINTAIN SAFE AND REASONABLE ABUTTER ACCESS. WORK MAY REQUIRE ADDITIONAL SIGNS, DRUMS AND OTHER TRAFFIC CONTROL DEVICES, GRADING AND TEMPORARY PAVEMENT FOR PASSAGE OF PEDESTRIAN, VEHICULAR AND EMERGENCY TRAFFIC THROUGH THE WORK AREAS, BOTH DURING AND AFTER WORKING HOURS, TO MAINTAIN SUCH ACCESS.
7. THE FIRST 10 DRUMS ON TAPERS SHALL BE REFLECTORIZED DRUMS WITH SEQUENTIAL FLASHING WARNING LIGHTS AND SHALL BE OPERATING, AT A MINIMUM, BETWEEN DUSK AND DAWN, WHEN TAPER IS DEPLOYED.
8. REFLECTORIZED CONES SHALL BE A MINIMUM OF 36 INCHES IN HEIGHT.
9. CONES MAY BE USED IN LIEU OF DRUMS OUTSIDE OF TAPER AREAS.
10. THE CONTRACTOR SHALL NOTIFY EACH ABUTTER AT LEAST 24 HOURS IN ADVANCE OF THE START OF ANY WORK THAT WILL REQUIRE THE TEMPORARY CLOSURE OR RESTRICTION OF ACCESS.
11. FOR DROP-OFFS 3" OR LESS WITHIN THE CLEAR ZONE, CONDITION MAY BE MITIGATED WITH W8-9 (LOW SHOULDER) SIGN OR TEMPORARY CHANNELIZATION DEVICES.
12. CONTRACTOR SHALL STAGE WORK SUCH THAT A DROP-OFF OF NO MORE THAN 3" AT THE END OF EACH WORK DAY EXISTS WITHIN THE CLEAR ZONE AT ANY TIME AND ENSURE DROP-OFF IS MITIGATED WITHOUT BARRIER PER NOTE 11.
13. CONSTRUCTION CLEAR ZONE SHALL BE IN ACCORDANCE WITH MASSDOT BOSTON TRAFFIC GUIDELINES AS FOLLOWS:
    - 4' IF POSTED SPEED IS LESS THAN 35 MPH
    - 8' IF POSTED SPEED IS 35 MPH
    - 15' IF POSTED SPEED IS 40 MPH
14. 11' MINIMUM LANE WIDTHS SHALL BE MAINTAINED UNLESS OTHERWISE NOTED.
15. NON-ESSENTIAL TRAFFIC CONTROL DEVICES AND SIGNS SHALL BE COVERED OR REMOVED DURING NON-WORKING HOURS WHEN NOT IN USE.
16. SIGNS INSTALLED ON PORTABLE STANDS REQUIRE 12 INCH MINIMUM MOUNTING HEIGHT FROM THE ROADWAY SURFACE TO THE BOTTOM OF THE SIGN.
17. SIGNS INSTALLED ON PORTABLE STANDS PLACED AMONG CHANNELIZATION DEVICES REQUIRE A 36 INCH MINIMUM MOUNTING HEIGHT FROM THE ROADWAY SURFACE TO THE BOTTOM OF THE SIGN.
18. SIGNS MOUNTED ON POSTS REQUIRE A MINIMUM 84 INCH MOUNTING HEIGHT FROM THE ROADWAY OR SIDEWALK SURFACE TO THE BOTTOM OF THE SIGN.
19. ALL SIGNS SHALL BE MOUNTED ON THEIR OWN NCHRP 350 AND/OR MASH CRASH TESTED SIGN SUPPORTS AND INSTALLED IN ACCORDANCE WITH THE MUTCD.SIGNS SHALL NOT BE MOUNTED TO OR LEANED AGAINST DRUMS OR CONES.
20. W8-15 SIGNS SHALL BE INSTALLED IN ADVANCE (100' MIN) OF PAVEMENT MILLING AREAS OR AS REQUESTED BY THE ENGINEER.
21. TEMPORARY MARKINGS SHALL BE WATER-BORNE PAINT OR SURFACE-APPLIED REMOVEBLE TAPE, AS APPROVED BY THE ENGINEER.
22. ALL TEMPORARY CROSSWALKS AND STOP LINES SHALL BE 12 INCHES WIDE.
23. ALL TEMPORARY DOUBLE YELLOW LINES (DBYL) SHALL BE 6 INCHES WIDE.
24. W20-1c, MA-R2-10a, OR MA-R2-10e SIGNS SHOWN ON ADVANCE SIGN SCHEMATIC MAY BE USED IN LIEU OF THOSE SIGNS SHOWN ON TYPICAL DETAILS ON THE TEMPORARY TRAFFIC CONTROL PLANS IF MINIMUM SIGN SPACING IS MET.
25. CONTRACTOR SHALL SECURE WORK AREAS BY APPROPRIATE MEANS, TO PREVENT UNAUTHORIZED ACCESS AT ALL TIMES.
26. THERE IS NO DESIGNATED BICYCLE LANE ON THE ROADWAY WITHIN THE PROJECT LIMITS. BICYCLES ARE EXPECTED TO SHARE THE ROAD WITH GENERAL VEHICULAR TRAFFIC.
27. NIGHTTIME WORK SHALL REQUIRE PRIOR APPROVAL FROM MASSDOT AND THE TOWN.
28. ILLUMINATION REQUIRED FOR NIGHTTIME WORK APPROVED BY THE ENGINEER SHALL BE DIFFUSED OR ANTI-GLARE LIGHTING AND IN ACCORDANCE WITH MASSDOT STANDARDS.
29. WHEN UTILIZING TYPICAL TRAFFIC CONTROL DETAILS, COVER EXISTING CONFLICTING ADVANCE WARNING SIGNS AS REQUIRED TO COMPLETE THE WORK.
30. CONTRACTOR SHALL NOT ALLOW PUBLIC ACCESS ON PORTIONS OF NEWLY BUILT SIDEWALK UNTIL ALL SIDEWALKS WITHIN THE PROJECT LIMITS ARE FULLY CONSTRUCTED AND ADAAG COMPLIANT OR AS DIRECTED BY THE ENGINEER.
31. TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF THREE TRANSVERSELY PLACED RUMBLE STRIPS EVENLY SPACED. SPACING SHALL BE 10 FT ON CENTER OR AS DIRECTED BY THE ENGINEER.
32. AT THE END OF EACH SHIFT, CONTRACTOR SHALL REPLACE ANY CROSSWALKS THAT HAVE BEEN REMOVED OR OBSCURED.
33. CONTRACTOR SHALL MAINTAIN ADA-COMPLICIT PEDESTRIAN ACCESS AT ALL TIMES, SPECIFICALLY INCLUDING PEDESTRIAN GUIDANCE SYSTEMS AT WORK ZONE. ACCESS SHALL BE MAINTAINED ALONG ALL SIDEWALKS AND CROSSWALKS, TO ALL ABUTTERS, AND TO ALL MBTA/RTA BUS STOPS. ANY PEDESTRIAN DETOUR SHALL INCLUDE A FULLY ADA-COMPLAINT PEDESTRIAN DETOUR ROUTE WITH PROPER BARRICADES, RAILINGS, RAMPS AND SIGNAGE.

LEGEND

Ⓟ	POLICE OFFICER
Ⓢ	TRAFFIC SIGNAL
●	REFLECTORIZED DRUM
◉	REFLECTORIZED DRUMS WITH SEQUENTIAL FLASHING WARNING LIGHTS (SEE NOTE 7)
	TEMPORARY CONSTRUCTION SIGN
▲	TRAFFIC CONE
	TYPE III BARRICADE
	TEMPORARY PORTABLE RUMBLE STRIPS
	PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)
	WORK AREA (PUBLIC ACCESS RESTRICTED)
	TRANSITION/BUFFER AREAS
←	TRAFFIC FLOW
	PEDESTRIAN ROUTE
	CONSTRUCTION FENCE
	TEMPORARY PEDESTRIAN BARRICADE
NTS	NOT TO SCALE

ADVANCE SIGN SPACING

	DISTANCE BETWEEN SIGNS (FEET)		
ROADWAY	A	B	C
ROUTE 20	500	500	500
BOSTON POST RD WELLESLEY ST	350	350	350
WINSOR WAY SCHOOL ST CRESCENT ST MAPLE RD MEADOWBROOK RD	100	100	100

LANE TAPER LENGTH FORMULAS

L= TAPER LENGTH IN FEET

W= WIDTH OF ROADWAY TO BE SHIFTED OR REDIRECTED IN FEET

S= POSTED SPEED LIMIT IN MPH

POSTED SPEED	
40 MPH OR LESS	GREATER THAN 40 MPH
$L = \frac{WS^2}{60}$	L= WS

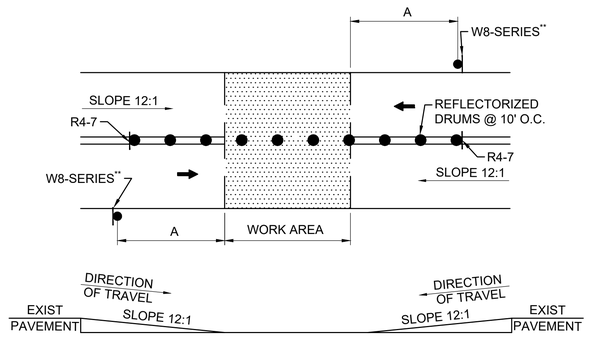
WESTON
ROUTE 20 / WELLESLEY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	HSI-0036(022)X	36	71
PROJECT FILE NO.	608940		

TEMPORARY TRAFFIC CONTROL PLANS
GENERAL NOTES AND LEGEND

BUFFER SPACING

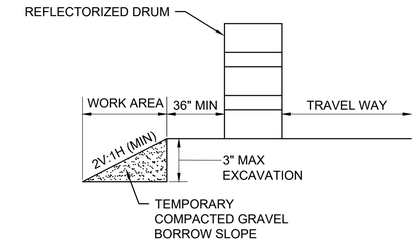
SPEED (MPH)	DISTANCE (FEET)
15	80
20	115
25	155
30	200
35	250
40	305
45	360
50	425



NOTES:
1. SQUARE OFF THE FULL WIDTH OF THE ROADWAY AT THE END OF WORK DAY
2. ** CONTRACTOR SHALL INSTALL W8-1, W8-3, OR W8-8 SIGN, AS APPROPRIATE, ON ALL ROADWAYS IN ADVANCE OF THE TRANSITION UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

TEMPORARY PAVEMENT TRANSITION

SCALE: NTS



NOTE:
1. CONTRACTOR SHALL INSTALL W8-9 SIGN ON ALL ROADWAYS 350 FT IN ADVANCE OF THE START OF DROP-OFF CONDITION.

TYPICAL ROADWAY DROP-OFF PROTECTION

SCALE: NTS

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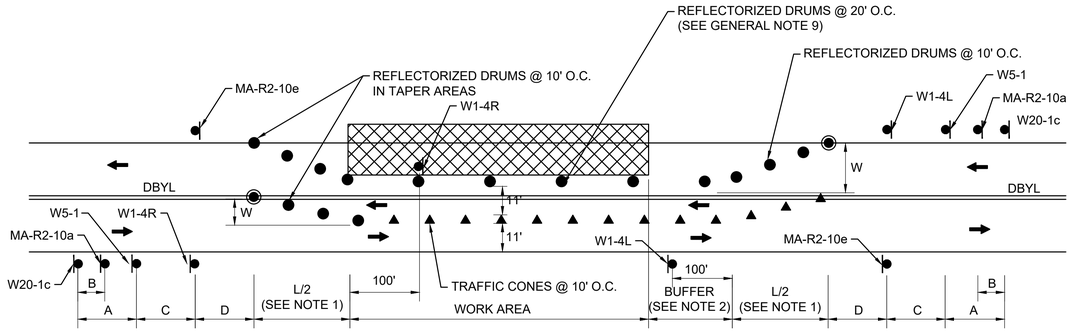
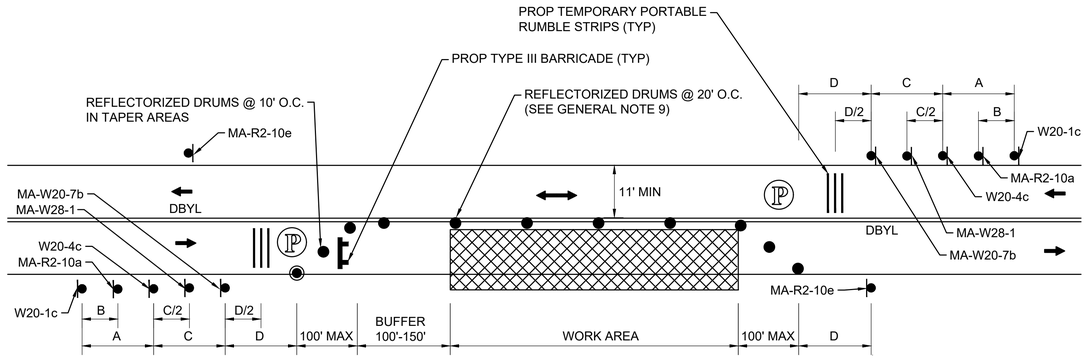


NOTES:

1. SEE TAPER LENGTH FORMULA ON TTCP GENERAL NOTES & LEGEND SHEET.
2. SEE BUFFER SPACING CHART ON TTCP GENERAL NOTES & LEGEND SHEET.
3. REFER TO ADVANCE SIGN SPACING TABLE ON TTCP GENERAL NOTES & LEGEND SHEET.
4. AT THE END OF WORK SHIFT, CONTRACTOR TO RESTORE TRAFFIC BACK TO ORIGINAL CONDITION.

TYPICAL TWO-WAY STREET LANE SHIFT

SCALE: NTS

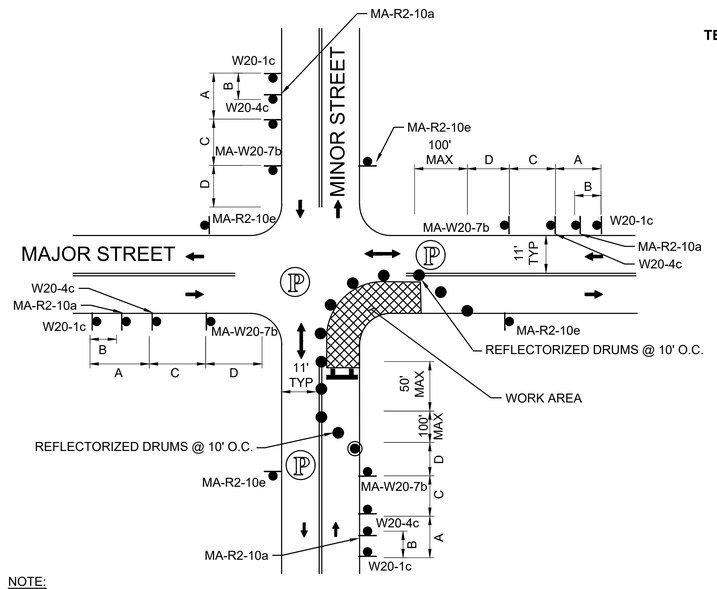


NOTES:

1. REFER TO ADVANCE SIGN SPACING TABLE ON TTCP GENERAL NOTES & LEGEND SHEET.
2. AT THE END OF WORK SHIFT, CONTRACTOR TO RESTORE TRAFFIC BACK TO ORIGINAL CONDITION.

TYPICAL TWO-WAY STREET LANE CLOSURE ALTERNATING TRAFFIC

SCALE: NTS

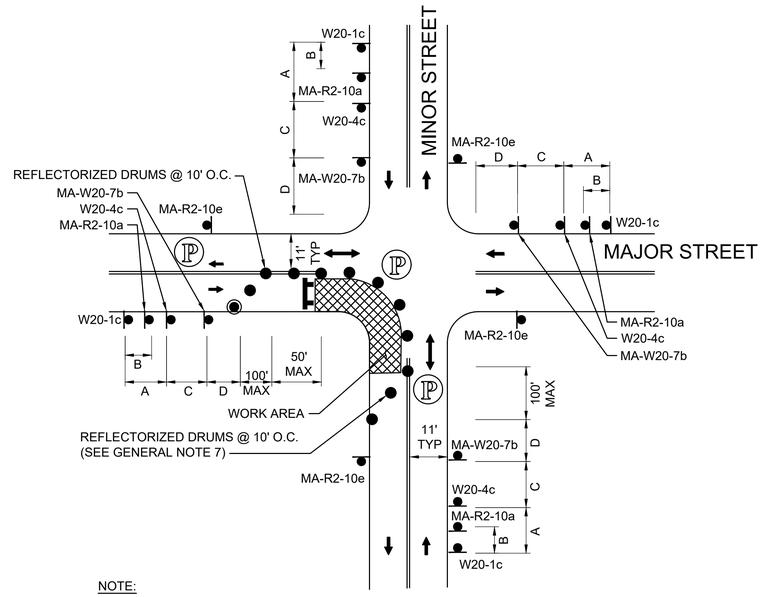


NOTE:

1. ADVANCE WARNING SIGN PLACEMENT TO BE ADJUSTED AS NECESSARY.
2. REFER TO ADVANCE SIGN SPACING TABLE ON TTCP GENERAL NOTES & LEGEND SHEET.
3. AT THE END OF WORK SHIFT, CONTRACTOR TO RESTORE TRAFFIC BACK TO ORIGINAL CONDITION.

ONE LANE BI-DIRECTIONAL TRAFFIC AT INTERSECTIONS - FAR SIDE

SCALE: NTS



NOTE:

1. ADVANCE WARNING SIGN PLACEMENT TO BE ADJUSTED AS NECESSARY.
2. REFER TO ADVANCE SIGN SPACING TABLE ON SHEET 36.
3. AT THE END OF WORK SHIFT, CONTRACTOR TO RESTORE TRAFFIC BACK TO ORIGINAL CONDITION.

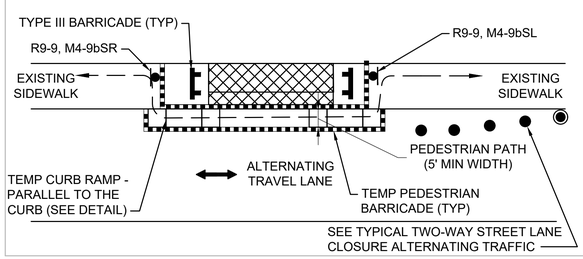
ONE LANE BI-DIRECTIONAL TRAFFIC AT INTERSECTIONS - NEAR SIDE

SCALE: NTS

NOTES:

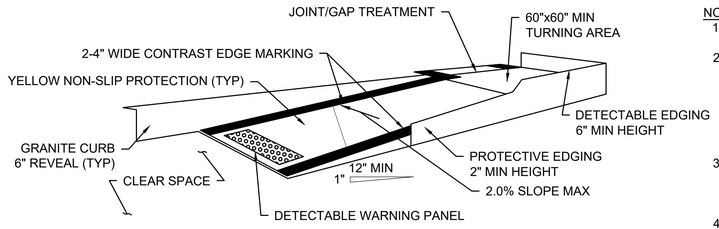
1. ADDITIONAL ADVANCE WARNING SIGNS MAY BE NECESSARY AS DETERMINED BY THE ENGINEER.
2. CONTROLS FOR PEDESTRIAN TRAFFIC ONLY, ARE SHOWN. VEHICULAR TRAFFIC SHALL BE MAINTAINED AS SHOWN ELSEWHERE.
3. STREET LIGHTING SHOULD BE CONSIDERED WHEN LOCATING CONTROL DEVICES.
4. → — ← INDICATES DIRECTION OF PEDESTRIAN TRAVEL.
5. ALL TEMPORARY PEDESTRIAN PATHWAYS SHALL COMPLY FULLY WITH ALL REQUIREMENTS OF THE MUTCD AND ALL APPLICABLE MAAB AND ADAAG REQUIREMENTS AND INCLUDE THE USE OF A COMPLIANT TEMPORARY PEDESTRIAN MANAGEMENT GUIDANCE SYSTEM AT ALL TIMES.
6. CONTRACTOR SHALL MAINTAIN AS WIDE OF A PEDESTRIAN ACCESS AS POSSIBLE AT ALL TIMES. EXCEPT WHERE NECESSARY, THE CONTRACTOR MAY TEMPORARILY REDUCE PEDESTRIAN PATHWAYS TO 4 FEET IN WIDTH (EXCLUDING CURB) FOR NO MORE THAN 200 LINEAR FEET AT A TIME IN ACCORDANCE WITH ALL STANDARDS. A 5' x 5' PASSING AREA SHALL BE PROVIDED IN INTERVALS NOT EXCEEDING 200 FEET.
7. TEMPORARY WHEELCHAIR RAMPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH MASSDOT, MAAB, AND ADAAG REQUIREMENTS.
8. TEMPORARY PEDESTRIAN BARRICADE SHALL BE PAID FOR UNDER ITEM 852.11 TEMPORARY PEDESTRIAN BARRICADE.
9. TEMPORARY PEDESTRIAN CURB RAMPS SHALL BE PAID FOR UNDER ITEM 852.12 TEMPORARY PEDESTRIAN CURB RAMP.

PEDESTRIAN BYPASS

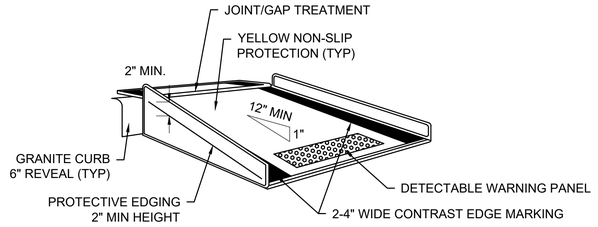


PEDESTRIAN BYPASS DETAIL

SCALE: NTS



TEMPORARY CURB RAMP-PARALLEL TO CURB



TEMPORARY CURB RAMP-PERPENDICULAR TO CURB

NOTES:

1. CURB RAMPS SHALL BE 60" MINIMUM WIDTH WITH A FIRM, STABLE AND NON-SLIP SURFACE.
2. PROTECTIVE EDGING WITH A 2" MINIMUM HEIGHT SHALL BE INSTALLED WHEN THE CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6" OR GREATER OR HAS A SIDE APRON SLOPE STEEPER THAN 1:3 (33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN THE CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3" OR MORE.
3. DETECTABLE EDGING WITH 6" MINIMUM HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).
4. THE CURB RAMP WALKWAY AND LANDING AREA SURFACE SHALL BE OF A SOLID CONTINUOUS CONTRASTING COLOR ABUTTING UP TO THE EXISTING SIDEWALK.
5. CURB RAMPS AND LANDINGS SHOULD HAVE A 1:50 (2%) MAX CROSS-SLOPE.
6. CLEAR SPACE OF 48"x48" MINIMUM SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP.
7. WATER FLOW IN THE GUTTER SYSTEM SHALL HAVE MINIMAL RESTRICTION.
8. LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN 0.5" WIDTH.
9. CHANGES BETWEEN SURFACE HEIGHTS SHOULD NOT EXCEED 0.5" LATERAL EDGES SHOULD BE VERTICAL UP TO 0.25" HIGH, AND BEVELED AT 1:2 BETWEEN 0.25" AND 0.5" HEIGHT.
10. 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.

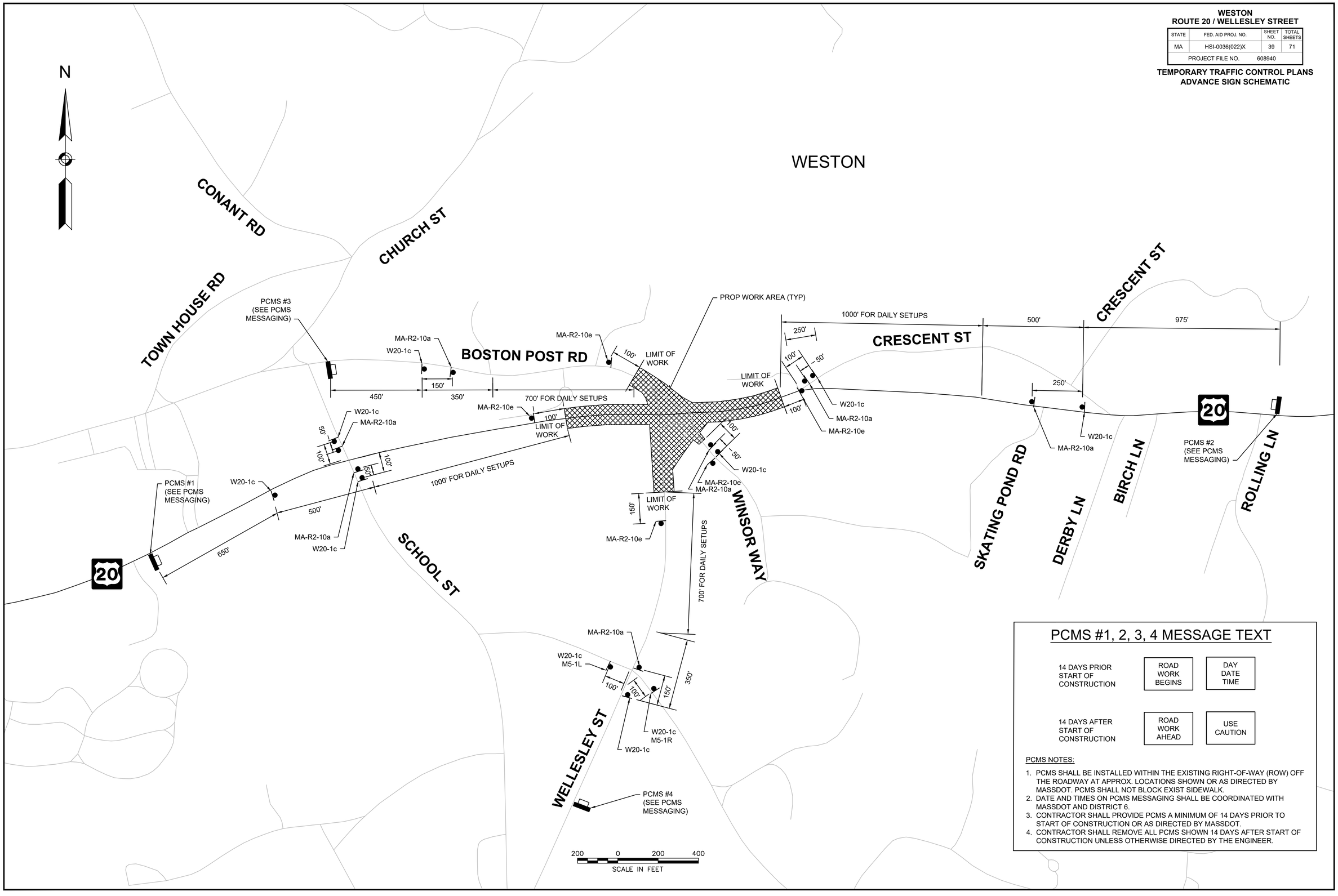
TEMPORARY CURB RAMPS

SCALE: NTS

WESTON
ROUTE 20 / WELLESLEY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	HSI-0036(022)X	39	71
PROJECT FILE NO.	608940		

TEMPORARY TRAFFIC CONTROL PLANS
ADVANCE SIGN SCHEMATIC



PCMS #1, 2, 3, 4 MESSAGE TEXT

14 DAYS PRIOR START OF CONSTRUCTION	ROAD WORK BEGINS	DAY DATE TIME
14 DAYS AFTER START OF CONSTRUCTION	ROAD WORK AHEAD	USE CAUTION

PCMS NOTES:

1. PCMS SHALL BE INSTALLED WITHIN THE EXISTING RIGHT-OF-WAY (ROW) OFF THE ROADWAY AT APPROX. LOCATIONS SHOWN OR AS DIRECTED BY MASSDOT. PCMS SHALL NOT BLOCK EXIST SIDEWALK.
2. DATE AND TIMES ON PCMS MESSAGING SHALL BE COORDINATED WITH MASSDOT AND DISTRICT 6.
3. CONTRACTOR SHALL PROVIDE PCMS A MINIMUM OF 14 DAYS PRIOR TO START OF CONSTRUCTION OR AS DIRECTED BY MASSDOT.
4. CONTRACTOR SHALL REMOVE ALL PCMS SHOWN 14 DAYS AFTER START OF CONSTRUCTION UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

WESTON
ROUTE 20 / WELLESLEY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	HSI-0036(022)X	40	71
PROJECT FILE NO.	608940		

TEMPORARY TRAFFIC CONTROL PLANS
SIGN SUMMARY

TEMPORARY TRAFFIC CONTROL SIGN SUMMARY

IDENTIFICATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			COLOR		
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.	BACK-GROUND	LEGEND	BORDER
MA-R2-10a	48"	36"	WORK ZONE / SPEEDING FINES DOUBLED	AS PER MASSDOT STANDARD			FLUOR-ESCENT ORANGE / WHITE	BLACK	BLACK
MA-R2-10e	36"	48"	END ROAD WORK / DOUBLE FINES END				FLUOR-ESCENT ORANGE / WHITE	BLACK	BLACK
R4-7	24"	30"		SEE FHWA "STANDARD HIGHWAY SIGNS, 2004 EDITION"; AS AMENDED			WHITE	BLACK	BLACK
R9-9	24"	12"	SIDEWALK CLOSED				WHITE	BLACK	BLACK
W1-4L	36"	36"					FLUOR-ESCENT ORANGE	BLACK	BLACK
W1-4R	36"	36"					FLUOR-ESCENT ORANGE	BLACK	BLACK
W5-1	36"	36"	ROAD NARROWS				FLUOR-ESCENT ORANGE	BLACK	BLACK
W8-1	36"	36"	BUMP				FLUOR-ESCENT ORANGE	BLACK	BLACK
W8-3	36"	36"	PAVEMENT ENDS				FLUOR-ESCENT ORANGE	BLACK	BLACK
W8-8	36"	36"	ROUGH ROAD				FLUOR-ESCENT ORANGE	BLACK	BLACK
W8-9	36"	36"	LOW SHOULDER				FLUOR-ESCENT ORANGE	BLACK	BLACK

TEMPORARY TRAFFIC CONTROL SIGN SUMMARY

IDENTIFICATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			COLOR		
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.	BACK-GROUND	LEGEND	BORDER
W8-15	36"	36"	GROOVED PAVEMENT				FLUOR-ESCENT ORANGE	BLACK	BLACK
W20-1c	36"	36"	ROAD WORK AHEAD	SEE FHWA "STANDARD HIGHWAY SIGNS, 2004 EDITION"; AS AMENDED			FLUOR-ESCENT ORANGE	BLACK	BLACK
W20-4c	36"	36"	ONE LANE ROAD AHEAD				FLUOR-ESCENT ORANGE	BLACK	BLACK
MA-W20-7b	36"	36"	POLICE OFFICER AHEAD	AS PER MASSDOT STANDARD			FLUOR-ESCENT ORANGE	BLACK	BLACK
W21-7	36"	36"	UTILITY WORK AHEAD	SEE FHWA "STANDARD HIGHWAY SIGNS, 2004 EDITION"; AS AMENDED			FLUOR-ESCENT ORANGE	BLACK	BLACK
MA-W28-1	36"	36"	RUMBLE STRIPS AHEAD	AS PER MASSDOT STANDARD			FLUOR-ESCENT ORANGE	BLACK	BLACK
M4-9bSL	30"	24"	DETOUR	SEE FHWA "STANDARD HIGHWAY SIGNS, 2004 EDITION"; AS AMENDED			FLUOR-ESCENT ORANGE	BLACK	BLACK
M4-9bSR	30"	24"	DETOUR				FLUOR-ESCENT ORANGE	BLACK	BLACK
M5-1L	21"	15"					FLUOR-ESCENT ORANGE	BLACK	BLACK
M5-1R	21"	15"					FLUOR-ESCENT ORANGE	BLACK	BLACK

NOTES:
1. HIGH INTENSITY REFLECTIVE SHEETING SHALL BE USED FOR ALL SIGNS. SEE FHWA "STANDARD HIGHWAY SIGNS, 2004 EDITION" FOR TEXT DIMENSIONS, AS AMENDED; THE 1977 MASSHIGHWAY DEPARTMENT CONSTRUCTION AND TRAFFIC STANDARD DETAILS, AS AMENDED, FOR SIGNS AND SUPPORTS; THE MASSHIGHWAY DEPARTMENT SIGN LISTINGS 1993 EDITION, AS AMENDED; THE 2009 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR MOUNTING REQUIREMENTS; AND THE 2017 MassDOT STANDARD SIGNS BOOK, AS AMENDED.
2. ALL SIGNS SHOWN GRAPHICALLY FOR INFORMATION ONLY. SIGN VENDOR SHALL FABRICATE ALL SIGNS IN ACCORDANCE WITH THE APPLICABLE STANDARDS.

SUGGESTED CONSTRUCTION STAGING:

GENERAL NOTES:

1. THE CONTRACTOR SHALL DEVELOP ALL NECESSARY TEMPORARY TRAFFIC CONTROL DRAWINGS AND TRAFFIC ANALYSIS NEEDED TO COMPLETE THE WORK. ALL DOCUMENTS SHALL BE SUBMITTED, IN SUFFICIENT DETAIL SUCH THAT ALL MAINTENANCE OF TRAFFIC AND CONSTRUCTION MITIGATION ISSUES ARE PROPERLY ADDRESSED, TO THE ENGINEER AND TOWN OF WESTON FOR REVIEW AND ACCEPTANCE.

2. INFORMATION CONTAINED AND DEPICTED IN THE SUGGESTED CONSTRUCTION STAGING PLANS/ NOTES MAY BE USED AS A GUIDE TO PREPARE THE TEMPORARY TRAFFIC CONTROL PLANS FOR SUBMITTAL. THESE DRAWINGS MUST BE PREPARED AND SIGNED BY A PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN THE COMMONWEALTH OF MASSACHUSETTS. THE DESIGN SHALL BE IN CONFORMANCE WITH ALL CURRENT AND APPLICABLE REQUIREMENTS OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, THE COMMONWEALTH OF MASSACHUSETTS HIGHWAY DEPARTMENT DESIGN MANUAL & MASSDOT STANDARDS, TOWN OF WESTON STANDARDS, THE AMERICANS ASSOCIATION OF STATE HIGHWAY TRANSPORTATION OFFICIALS, THE AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES AND THE RULES AND REGULATIONS OF THE MASSACHUSETTS ARCHITECTURAL ACCESS BOARD, AT A MINIMUM THE INFORMATION AND LEVEL OF DETAIL SHOWN N THE CONTRACTOR'S CONSTRUCTION DRAWINGS SHALL INDICATE ALL TEMPORARY TRAFFIC CONTROL DEVICES, PAVEMENT MARKINGS, SIGNS, AND TRAFFIC SIGNAL DESIGN ELEMENTS NECESSARY TO MAINTAIN PUBLIC ACCESS AS ILLUSTRATED IN THE SUGGESTED CONSTRUCTION STAGING PLANS/ NOTES. THE CONTRACTOR SHALL SUBMIT ALL REQUIRED DRAWINGS FOR EACH STAGE OF CONSTRUCTION.

3. GENERALLY, A NEW STAGE OF CONSTRUCTION WILL BE RECOGNIZED WHEN CHANGES IN VEHICULAR AND/OR PEDESTRIAN TRAFFIC FLOW CHARACTERISTICS ARE REQUIRED FOR THE CONTRACTOR TO DO THE WORK. SPECIFICALLY, A NEW STAGE WILL BE KNOWN TO EXIST WHEN THERE IS A CHANGE IN VEHICULAR OR PEDESTRIAN PATTERNS, ROADWAY OR INTERSECTION CONFIGURATION, NUMBER OF LANES, LANE UTILIZATION, ALLOWED VEHICULAR OR PEDESTRIAN MOVEMENTS, AVAILABLE STORAGE CAPACITY BETWEEN ADJACENT INTERSECTIONS, PROTECTION OF VEHICULAR AND PEDESTRIAN TRAFFIC AND ANY OTHER CHANCE IN CONDITIONS THAT AFFECTS PUBLIC ACCESS.

4. THE CONTRACTOR'S DRAWINGS MUST DEPICT SURFACE CONDITIONS ANTICIPATED TO BE FOUND AT THE TIME WHICH THE PROPOSED WORK WILL BE PERFORMED AS A BASE CONDITION. THE CONTRACTOR'S TEMPORARY TRAFFIC CONTROL DRAWINGS SHALL CLEARLY SHOW THE FOLLOWING FOR EACH STAGE OF CONSTRUCTION: ALL PROPOSED VEHICULAR AND PEDESTRIAN TRAFFIC FLOW CHARACTERISTICS; ALL MEANS OF VEHICULAR, BICYCLE AND PEDESTRIAN TRAFFIC CONTROL AND PROTECTION; THE EXTENT OF THE CONTRACTOR WORK ZONES INCLUDING THE RESPECTIVE ACTIVITIES PROPOSED WITHIN EACH; THE POINT OF ACCESS/EGRESS FOR EACH WORK ZONE INCLUDING POINTS OF ACCESS/EGRESS TO PROPERTIES ADJACENT TO THE WORK; AND THE DISPOSITION OF THE ABOVE ITEMS, INCLUDING THE RESTORATION OF SURFACE FEATURES, AS THE EXISTING ENVIRONMENT CHANGES FROM ONE STAGE TO ANOTHER. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE TO DEVELOP ALL REQUIRED TRAFFIC ANALYSIS TO SUPPORT THE DESIGN PROPOSED IN EACH STAGE IN ACCORDANCE WITH MASSDOT STANDARDS. ADDITIONALLY, THE CONTRACTOR SHALL SHOW THE ESTIMATED PERIOD OF TIME THAT EACH STAGE OF CONSTRUCTION WILL BE IN EFFECT, WHICH CORRESPONDS TO THE APPROVED CONSTRUCTION SCHEDULE.

5. AS REQUESTED BY THE ENGINEER, THE CONTRACTOR SHALL SUBMIT ELECTRONIC DRAWING FILES OF THE CONSTRUCTION DRAWING SUBMITTALS AS WELL AS ANY TRAFFIC ANALYSIS PROGRAM FILES TO THE ENGINEER FOR THEIR USE.

6. THE CONTRACTOR SHALL COORDINATE WITH PRIVATE UTILITY COMPANIES FOR RELOCATION OR INSTALLATION OF PRIVATE UTILITIES.

7. TEMPORARY PAVING WILL BE NECESSARY TO MAINTAIN TRAFFIC THROUGH CONSTRUCTION. CONTRACTOR SHALL MAINTAIN A PAVED SURFACE ON ALL SIDE STREETS AND DRIVEWAY ACCESS POINTS AT ALL TIMES.

8. CONTRACTOR SHALL MAINTAIN ROADWAY DRAINAGE THROUGHOUT CONSTRUCTION.

9. CONTRACTOR SHALL MAINTAIN EXISTING STREET LIGHTING AT EXISTING LIGHTING LEVELS OR PROVIDE TEMPORARY STREET LIGHTING AS NECESSARY DURING EACH CONSTRUCTION STAGE UNLESS OTHERWISE APPROVED BY THE ENGINEER.

10. CONTRACTOR SHALL COORDINATE WITH THE TOWN OF WESTON FOR PROTECTION OF TREES AND ADJACENT AMENITIES THROUGHOUT THE PROJECT.

11. CONTRACTOR SHALL PROVIDE ALL TEMPORARY TRAFFIC CONTROL DEVICES INCLUDING BUT NOT LIMITED TO BARRIER, DRUMS, CONES, SIGNS, AND MARKINGS AS NECESSARY FOR EACH STAGE OF CONSTRUCTION.

12. CONTRACTOR SHALL UTILIZE THE TEMPORARY TRAFFIC CONTROL TYPICAL DETAILS INCLUDED HEREIN TO COMPLETE THE WORK WITHIN THE PUBLIC WAY, UNLESS OTHERWISE APPROVED BY MASSDOT.

13. CONTRACTOR SHALL MAINTAIN SAFE AND REASONABLE ABUTTER ACCESS IN EACH STAGE OF CONSTRUCTION.

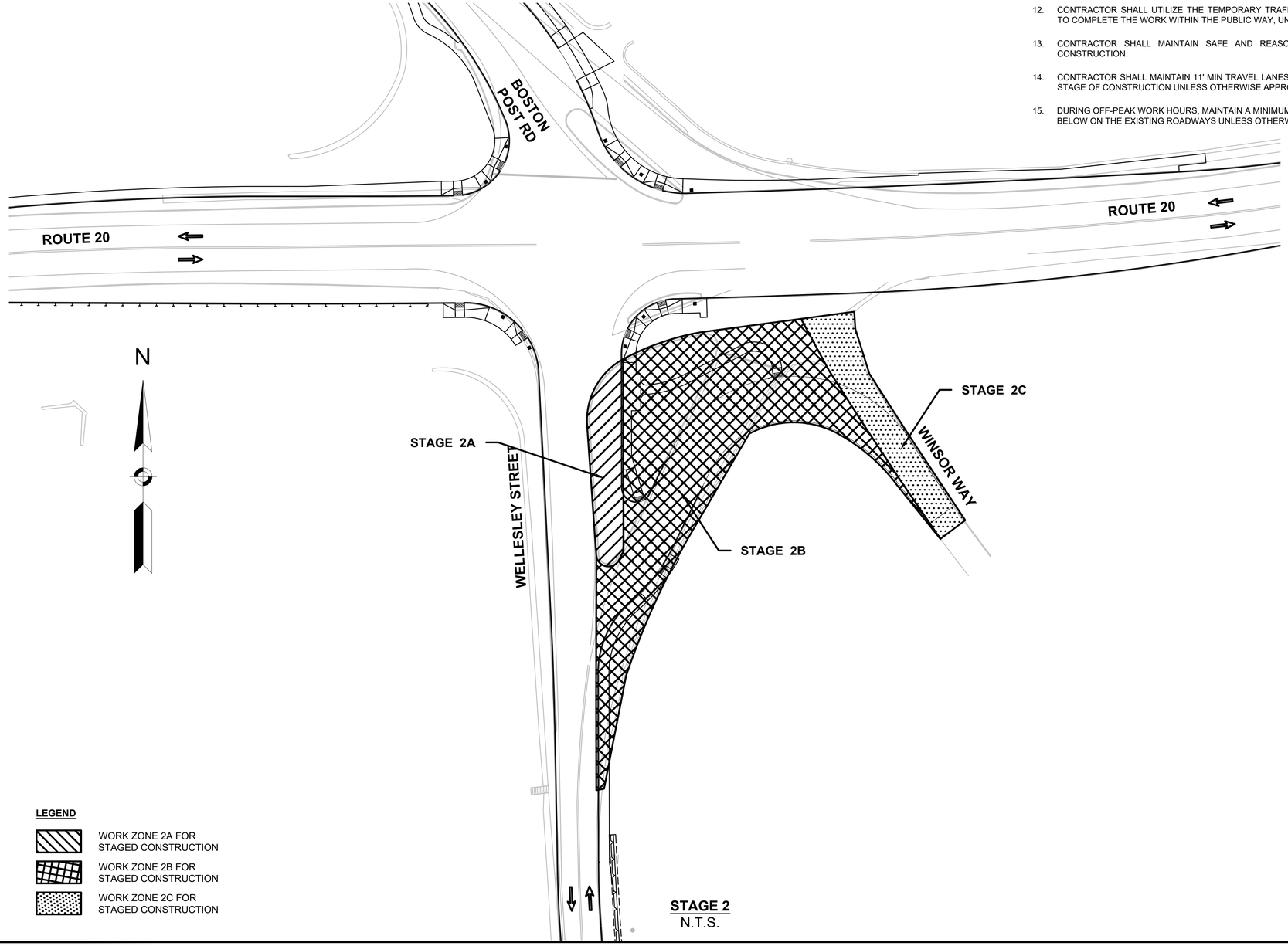
14. CONTRACTOR SHALL MAINTAIN 11' MIN TRAVEL LANES AND 5' MIN SIDEWALK AT ALL TIMES DURING EACH STAGE OF CONSTRUCTION UNLESS OTHERWISE APPROVED BY THE ENGINEER.

15. DURING OFF-PEAK WORK HOURS, MAINTAIN A MINIMUM NUMBER OF LANES AS INDICATED BELOW ON THE EXISTING ROADWAYS UNLESS OTHERWISE APPROVED BY THE ENGINEER.

WESTON
ROUTE 20 / WELLESLEY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	HSI-0036(022)X	41	71
PROJECT FILE NO.	608940		

SUGGESTED CONSTRUCTION STAGING



STAGE 1 - TEST PITS; DRAINAGE SYSTEM AND DRAINAGE MODIFICATION; CONDUIT INSTALLATION (NO GRAPHIC)

1. REFER TO TEMPORARY TRAFFIC CONTROL - OPERATION DETAILS (LANE DROP, LANE SHIFT, ETC.).
2. INSTALL TEMPORARY SIGNS, DRUMS AND OTHER TRAFFIC MAINTENANCE DEVICES AS REQUIRED BY THE ENGINEER.
3. MAINTAIN ONE LANE OF TRAFFIC IN EACH DIRECTION ON ROUTE 20, WELLESLEY STREET, BOSTON POST ROAD AND ACCESS TO ALL ABUTTING PROPERTIES UNLESS OTHERWISE APPROVED BY THE ENGINEER.
4. COORDINATE WITH PRIVATE UTILITY COMPANIES FOR RELOCATION OR ADJUSTMENT OF PRIVATE UTILITIES.
5. COORDINATE WITH TOWN OF WESTON FOR PROTECTION OF TREES AND ADJACENT AMENITIES.
6. EXCAVATE TEST PITS AND PROVIDE TEST PIT DATA TO THE ENGINEER.
7. CONSTRUCT NEW DRAINAGE SYSTEM AND TRAFFIC SIGNAL CONDUIT.
8. CONSTRUCT TEMPORARY PAVEMENT PATCH OVER DRAINAGE SYSTEM/TRAFFIC SIGNAL CONDUIT WITHIN PROPOSED FULL DEPTH PAVEMENT AREAS.
9. CONSTRUCT PERMANENT PAVEMENT PATCH OVER DRAINAGE SYSTEM/TRAFFIC SIGNAL CONDUIT WITHIN MILL AND OVERLAY AREAS.

STAGE 2A - WELLESLEY STREET - WIDEN EAST SIDE OF MEDIAN / ISLAND

1. RELOCATE OR INSTALL TEMPORARY SIGNS, DRUMS AND OTHER TRAFFIC MAINTENANCE DEVICES AS REQUIRED BY THE ENGINEER.
2. MAINTAIN ONE LANE OF TRAFFIC IN EACH DIRECTION ON ROUTE 20, WELLESLEY STREET, BOSTON POST ROAD AND ACCESS TO ALL ABUTTING PROPERTIES UNLESS OTHERWISE APPROVED BY THE ENGINEER.
3. COORDINATE WITH PRIVATE UTILITY COMPANIES FOR ADJUSTMENT, RELOCATION OR INSTALLATION OF PRIVATE UTILITIES.
4. CONSTRUCT FULL DEPTH PAVEMENT FOR EAST SIDE OF WELLESLEY STREET, EXCEPT FOR THE TOP COURSE.

STAGE 2B - WELLESLEY STREET / WINSOR WAY

1. RELOCATE OR INSTALL TEMPORARY SIGNS, DRUMS AND OTHER TRAFFIC MAINTENANCE DEVICES AS REQUIRED BY THE ENGINEER.
2. MAINTAIN ONE LANE OF TRAFFIC IN EACH DIRECTION ON ROUTE 20, WELLESLEY STREET, BOSTON POST ROAD AND ACCESS TO ALL ABUTTING PROPERTIES UNLESS OTHERWISE APPROVED BY THE ENGINEER.
3. MAINTAIN ACCESS TO WINSOR WAY AT ROUTE 20.
4. COORDINATE WITH PRIVATE UTILITY COMPANIES FOR ADJUSTMENT, RELOCATION OR INSTALLATION OF PRIVATE UTILITIES.
5. CONSTRUCT NEW DRAINAGE SYSTEM MODIFICATIONS.
6. CONSTRUCT FULL DEPTH PAVEMENT FOR RELOCATED WINSOR WAY, EXCEPT FOR THE TOP COURSE.

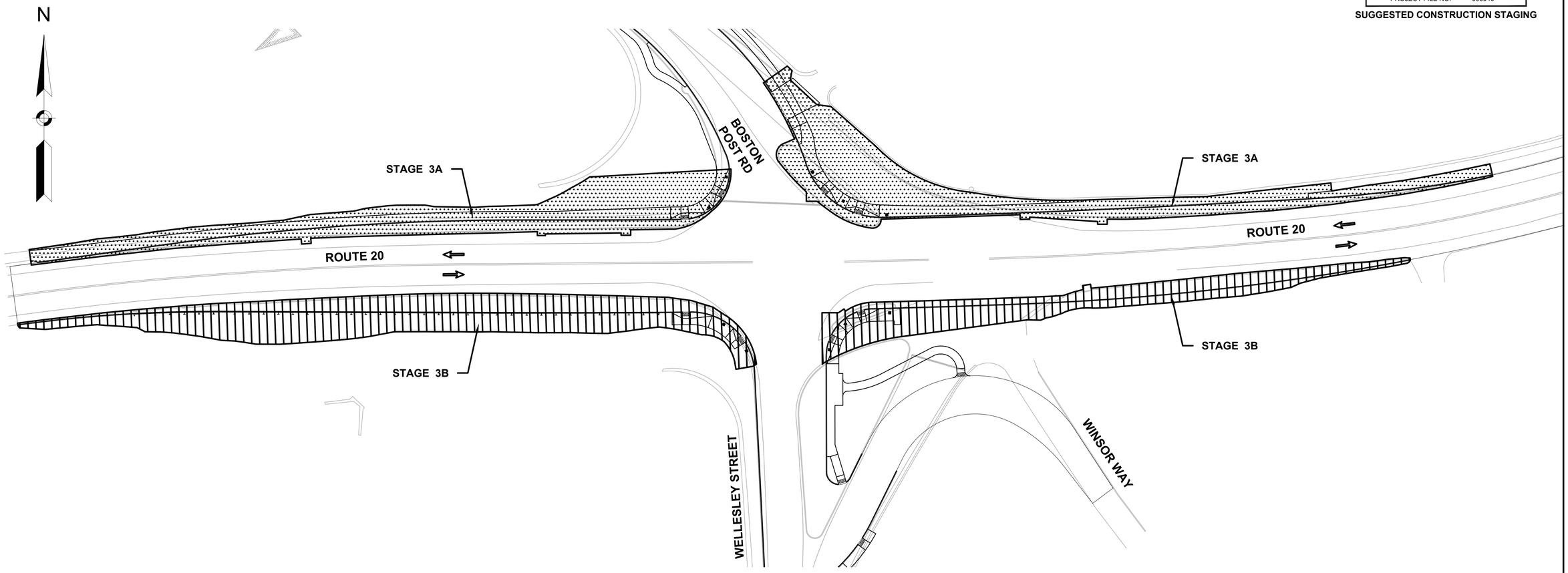
STAGE 2C - WINSOR WAY

1. RELOCATE OR INSTALL TEMPORARY SIGNS, DRUMS AND OTHER TRAFFIC MAINTENANCE DEVICES AS REQUIRED BY THE ENGINEER.
2. MAINTAIN ONE LANE OF TRAFFIC IN EACH DIRECTION ON ROUTE 20, WELLESLEY STREET, BOSTON POST ROAD AND ACCESS TO ALL ABUTTING PROPERTIES UNLESS OTHERWISE APPROVED BY THE ENGINEER.
3. RELOCATE ACCESS TO WINSOR WAY FROM ROUTE 20 TO WELLESLEY STREET.
4. COORDINATE WITH PRIVATE UTILITY COMPANIES FOR ADJUSTMENT, RELOCATION OR INSTALLATION OF PRIVATE UTILITIES.
5. CONSTRUCT NEW DRAINAGE SYSTEM MODIFICATIONS.
6. CONSTRUCT FULL DEPTH PAVEMENT FOR WINSOR WAY, EXCEPT FOR THE TOP COURSE.

WESTON
ROUTE 20 / WELLESLEY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	HSI-0036(022)X	42	71
PROJECT FILE NO.	608940		

SUGGESTED CONSTRUCTION STAGING



STAGE 3
N.T.S.

STAGE 3A - ROUTE 20 WESTBOUND - FULL DEPTH PAVEMENT / BOX-WIDENING

1. REFER TO TEMPORARY TRAFFIC CONTROL - OPERATION DETAILS (LANE DROP, LANE SHIFT, ETC.).
2. RELOCATE OR INSTALL TEMPORARY SIGNS, DRUMS AND OTHER TRAFFIC MAINTENANCE DEVICES AS REQUIRED BY THE ENGINEER.
3. MAINTAIN ONE LANE OF TRAFFIC IN EACH DIRECTION ON ROUTE 20, WELLESLEY STREET, BOSTON POST ROAD AND ACCESS TO ALL ABUTTING PROPERTIES UNLESS OTHERWISE APPROVED BY THE ENGINEER.
4. COORDINATE WITH PRIVATE UTILITY COMPANIES FOR ADJUSTMENT, RELOCATION OR INSTALLATION OF PRIVATE UTILITIES.
5. CONSTRUCT DRAINAGE SYSTEM; TRAFFIC SIGNAL SYSTEM CONDUIT AND FOUNDATIONS; STREET LIGHT SYSTEM ADJUSTMENTS; AND OTHER PUBLIC UNDERGROUND UTILITY ALTERATIONS OR ADJUSTMENTS.
6. CONSTRUCT RIGHT-TURN, SLIP LANE AREA AT THE CORNER OF ROUTE 20 AND BOSTON POST ROAD.
7. CONSTRUCT FULL DEPTH PAVEMENT EXCEPT FOR THE TOP COURSE.
8. CONSTRUCT CURBING, DRIVEWAYS, TEMPORARY SIDEWALK AND PERMANENT SIDEWALK.

STAGE 3B - ROUTE 20 EASTBOUND - FULL DEPTH PAVEMENT / BOX-WIDENING

1. REFER TO TEMPORARY TRAFFIC CONTROL - OPERATION DETAILS (LANE DROP, LANE SHIFT, ETC.)
2. RELOCATE OR INSTALL TEMPORARY SIGNS, DRUMS AND OTHER TRAFFIC MAINTENANCE DEVICES AS REQUIRED BY THE ENGINEER.
3. MAINTAIN ONE LANE OF TRAFFIC IN EACH DIRECTION ON ROUTE 20, WELLESLEY STREET, BOSTON POST ROAD AND ACCESS TO ALL ABUTTING PROPERTIES UNLESS OTHERWISE APPROVED BY THE ENGINEER.
4. COORDINATE WITH PRIVATE UTILITY COMPANIES FOR ADJUSTMENT, RELOCATION OR INSTALLATION OF PRIVATE UTILITIES.
5. CONSTRUCT DRAINAGE SYSTEM; TRAFFIC SIGNAL SYSTEM CONDUIT AND FOUNDATIONS; STREET LIGHT SYSTEM ADJUSTMENTS; AND OTHER PUBLIC UNDERGROUND UTILITY ALTERATIONS OR ADJUSTMENTS.
6. CONSTRUCT FULL DEPTH PAVEMENT EXCEPT FOR THE TOP COURSE.
7. CONSTRUCT CURBING, DRIVEWAYS, TEMPORARY SIDEWALK AND PERMANENT SIDEWALK.

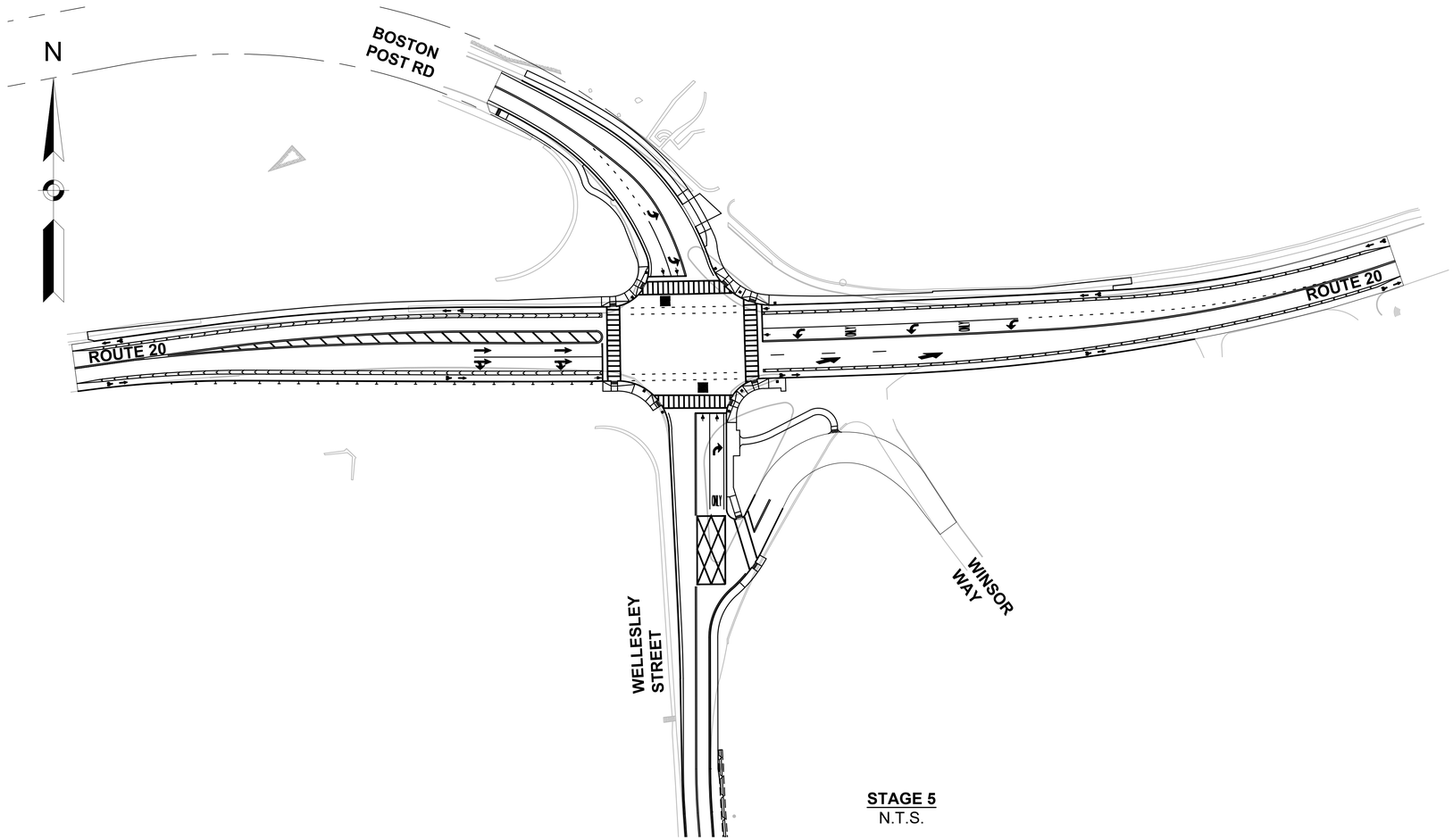
LEGEND

- WORK ZONE 3A FOR STAGED CONSTRUCTION
- WORK ZONE 3B FOR STAGED CONSTRUCTION

WESTON
ROUTE 20 / WELLESLEY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	HSI-0036(022)X	43	71
PROJECT FILE NO.	608940		

SUGGESTED CONSTRUCTION STAGING



STAGE 5
N.T.S.

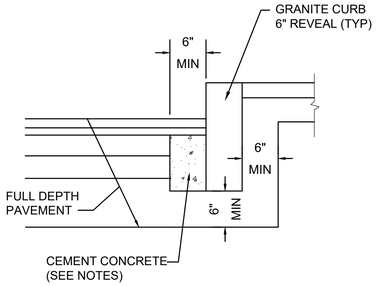
STAGE 4A - BOSTON POST ROAD (NO GRAPHIC)

STAGE 4B - WELLESLEY STREET (NO GRAPHIC)

1. REFER TO TEMPORARY TRAFFIC CONTROL - OPERATION DETAILS (LANE DROP, LANE SHIFT, ETC.)
2. RELOCATE OR INSTALL TEMPORARY SIGNS, DRUMS AND OTHER TRAFFIC MAINTENANCE DEVICES AS REQUIRED BY THE ENGINEER.
3. MAINTAIN ONE LANE OF TRAFFIC IN EACH DIRECTION ON ROUTE 20, WELLESLEY STREET, BOSTON POST ROAD AND ACCESS TO ALL ABUTTING PROPERTIES UNLESS OTHERWISE APPROVED BY THE ENGINEER.
4. COORDINATE WITH PRIVATE UTILITY COMPANIES FOR ADJUSTMENT, RELOCATION OR INSTALLATION OF PRIVATE UTILITIES.
5. CONSTRUCT REMAINING DRAINAGE SYSTEM; TRAFFIC SIGNAL SYSTEM CONDUIT AND FOUNDATIONS; STREET LIGHT SYSTEM ADJUSTMENTS; AND OTHER PUBLIC UNDERGROUND UTILITY ALTERATIONS OR ADJUSTMENTS.
6. CONSTRUCT REMAINING FULL DEPTH PAVEMENT EXCEPT FOR THE TOP COURSE.
7. CONSTRUCT CURBING, DRIVEWAYS, TEMPORARY SIDEWALK AND PERMANENT SIDEWALK.

STAGE 5 - FINISH WORK

1. REFER TO TEMPORARY TRAFFIC CONTROL - OPERATION DETAILS (LANE DROP, LANE SHIFT, ETC.)
2. RELOCATE OR INSTALL TEMPORARY SIGNS, DRUMS AND OTHER TRAFFIC MAINTENANCE DEVICES AS REQUIRED BY THE ENGINEER.
3. MAINTAIN ONE LANE OF TRAFFIC IN EACH DIRECTION ON ROUTE 20, WELLESLEY STREET, BOSTON POST ROAD AND ACCESS TO ALL ABUTTING PROPERTIES UNLESS OTHERWISE APPROVED BY THE ENGINEER.
4. COORDINATE WITH PRIVATE UTILITY COMPANIES FOR FINAL ADJUSTMENT OF PRIVATE UTILITIES.
5. ADJUST PUBLIC UTILITY (DRAINAGE, WATER, SEWER) SYSTEM CASTINGS.
6. CONSTRUCT ANY REMAINING BOX WIDENING FULL DEPTH PAVEMENT EXCEPT FOR THE TOP COURSE.
7. CONSTRUCT ANY REMAINING CURBING AND SIDEWALK.
8. COLD PLANE EXISTING PAVEMENT AS DESIGNATED ON THE PLANS.
9. CONSTRUCT LANDSCAPE AND STREETSCAPE ELEMENTS
10. CONSTRUCT ALL TRAFFIC SIGNAL SYSTEMS AND LIGHTING SYSTEMS.
11. CONSTRUCT TOP COURSE OF PAVEMENT.
12. INSTALL PAVEMENT MARKINGS AND SIGNS.
13. REMOVE TEMPORARY TRAFFIC CONTROL DEVICES.

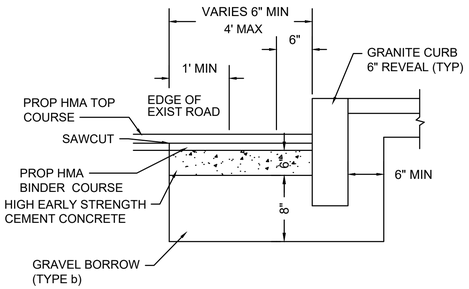


NOTES:

1. TO BE PLACED IF CURB IS INSTALLED AFTER HOT MIX ASPHALT.
2. CONCRETE SHALL BE INCLUDED IN PRICE BID FOR GRANITE CURB.
3. ANY DESIGNATED CEMENT CONCRETE THAT IS ACCEPTABLE UNDER SECTION M4 OF THE STANDARD SPECIFICATIONS MAY BE USED. ALL TEST REQUIREMENTS ARE WAIVED. HOT MIX ASPHALT SHALL NOT BE USED AS A SUBSTITUTE.

GRANITE CURB IN FULL DEPTH PAVEMENT

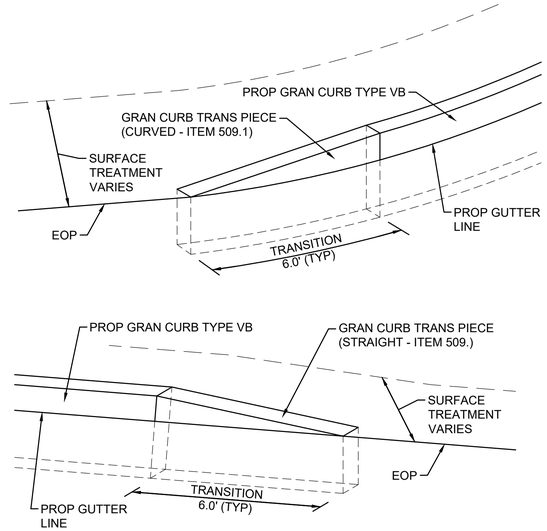
SCALE: N.T.S. DWG: CURB-05 DATE: MARCH 2013



* 6" OF HIGH EARLY STRENGTH CEMENT CONCRETE BASE COURSE SHALL BE INCLUDED IN PRICE BID FOR GRANITE CURB.

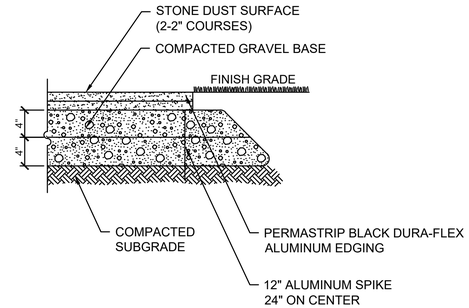
GRANITE CURB IN FULL DEPTH PAVEMENT LESS THAN 4' WIDE

SCALE: N.T.S. DWG: CURB-06 DATE: FEB. 2013



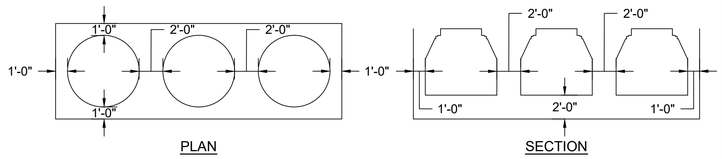
GRANITE CURB TRANSITION PIECE

SCALE: NTS

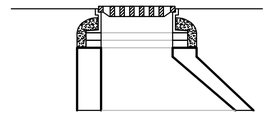


STONEDUST WALK

SCALE: NTS SOURCE:VHN DATE: JAN 2016

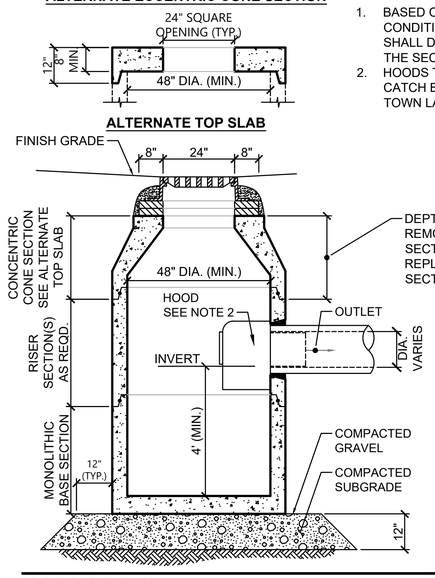


MULTIPLE BASIN LAYOUT



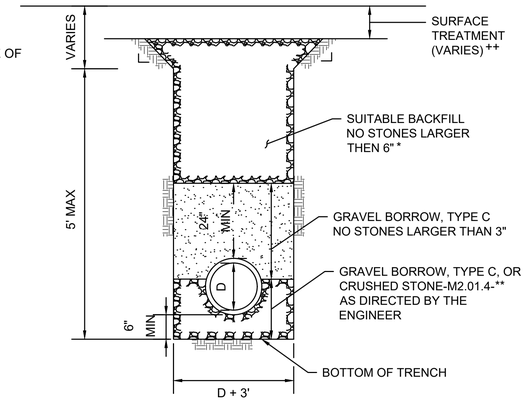
NOTES:

1. BASED ON ACTUAL FIELD CONDITIONS; THE CONTRACTOR SHALL DETERMINE WHICH STYLE OF THE SECTION SHOULD BE USED.
2. HOODS TO BE INSTALLED IN ALL CATCH BASINS LOCATED WITHIN TOWN LAYOUT



CATCH BASIN

SCALE: N.T.S.



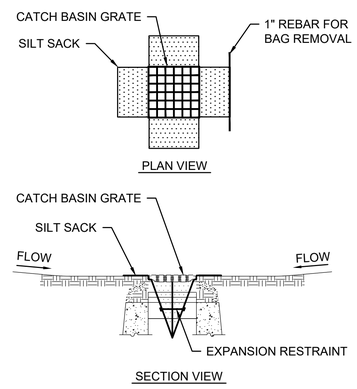
++ MINIMUM REQUIREMENTS:
IN ROADWAY MATCH EXISTING ROADWAY PAVEMENT DEPTHS (ITEM 451.)

* CONTROLLED DENSITY FILL TO BE USED ONLY WHEN CONVENTIONAL METHODS ARE UNUSUALLY DIFFICULT AS DETERMINED BY THE ENGINEER DUE TO OBSTRUCTIONS.

** CRUSHED STONE TO BE USED DURING WET CONDITIONS AS DIRECTED BY THE ENGINEER.

TRENCH DETAIL

SCALE: NTS DWG: TRENCH-05 DATE: MARCH 2013

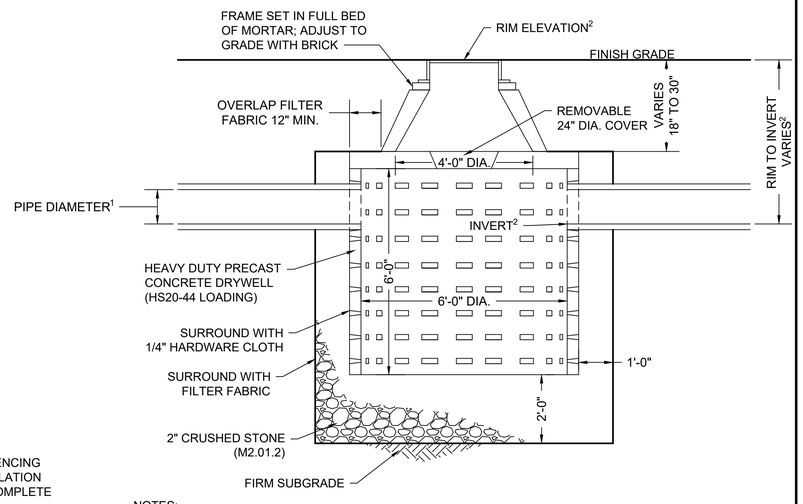


NOTES:

1. INSTALL SILT SACK IN EXISTING CATCH BASINS, BEFORE COMMENCING WORK, AND IN NEW CATCH BASINS IMMEDIATELY AFTER INSTALLATION OF STRUCTURE. REMOVE AFTER BINDER COURSE PAVING IS COMPLETE AND A PERMANENT STAND OF GRASS HAS BEEN ESTABLISHED.
2. GRATE TO BE PLACED OVER SILT SACK.
3. SILT SACK SHALL BE INSPECTED PERIODICALLY AND AFTER ALL STORM EVENTS AND CLEANING OR REPLACEMENT SHALL BE PERFORMED

INLET PROTECTION - SILT SACK IN CATCH BASIN

SCALE: N.T.S. DWG: EV-03 DATE: MARCH 2013



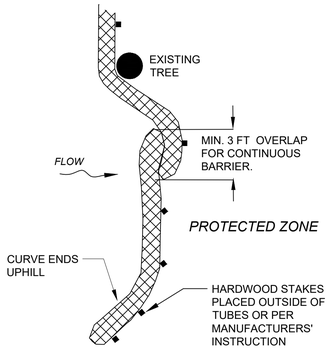
NOTES:

1. REFER TO PLANS FOR DRAINAGE PIPE CONFIGURATION, DIAMETER AND MATERIAL.
2. REFER TO DRAINAGE STRUCTURE TABLE FOR RIM AND INVERT ELEVATIONS.
3. PIPE PENETRATIONS SHALL TO BE CAST OR CORED WITHIN THE TOP 3RD OF THE LEACHING BASIN STRUCTURE.

6' LEACHING BASIN - DEEP

SCALE: N.T.S.

14360_HD(DET).DWG Plotted on 30-Jan-2026 1:45 PM



PLACE TUBE ALONG CONTOURS AND PERPENDICULAR TO FLOW.

PLACE AS CLOSE TO LIMIT OF SOIL DISTURBANCE AS POSSIBLE

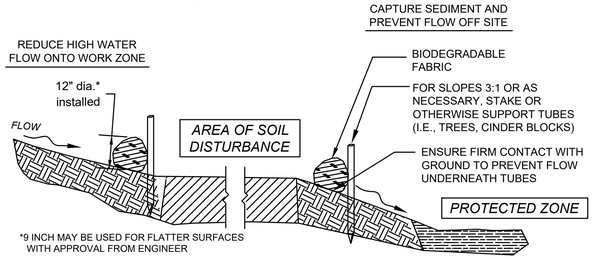
ADJUST LOCATION AS REQUIRED FOR OPTIMUM EFFECTIVENESS. DO NOT INSTALL IN WATERWAYS.

PLACE STAKES AS NEEDED TO SECURE TUBES IN PLACE.

PLAN VIEW

SEDIMENT BARRIERS

NOT TO SCALE

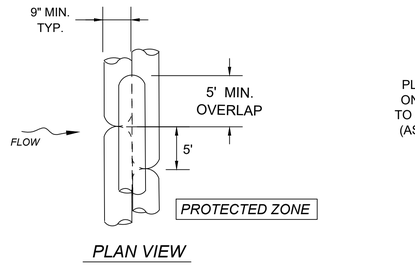


SECTION

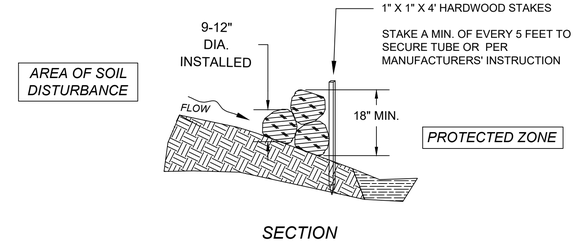
SEDIMENT BARRIER - COMPOST FILTER TUBE

NOT TO SCALE

WHERE SPECIFIED ON CONSTRUCTION PLANS OR AS REQUIRED



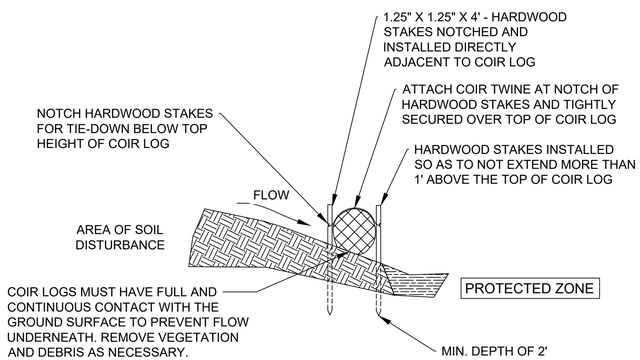
PLAN VIEW



SECTION

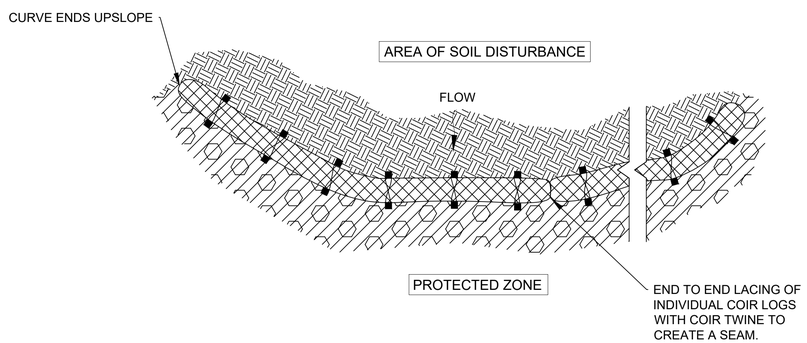
COMPOST FILTER TUBE STACKED

NOT TO SCALE



*IF, UPON APPROVAL OF THE ENGINEER, COIR WATTLE IS USED IN PLACE OF COIR LOGS FOR REPAIRS DURING CONSTRUCTION, DIAMETER OF COIR WATTLE MAY BE 12 INCHES.

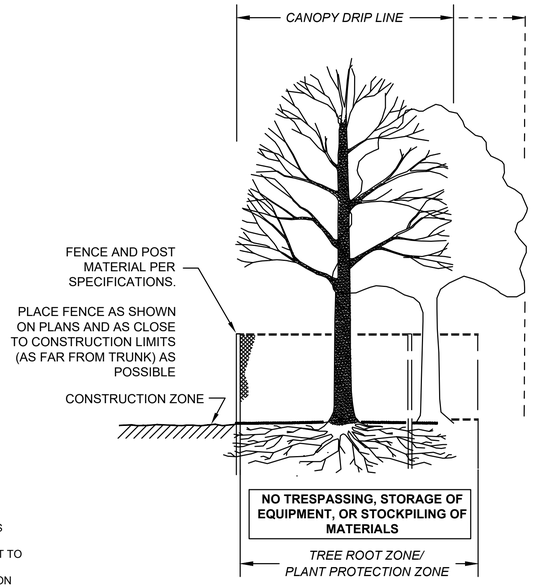
SECTION



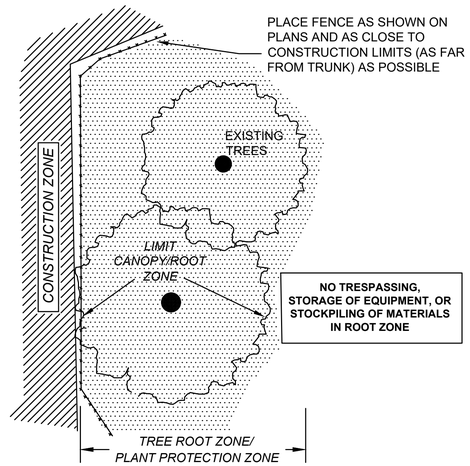
PLAN VIEW

SEDIMENT BARRIER - COIR LOG

NOT TO SCALE



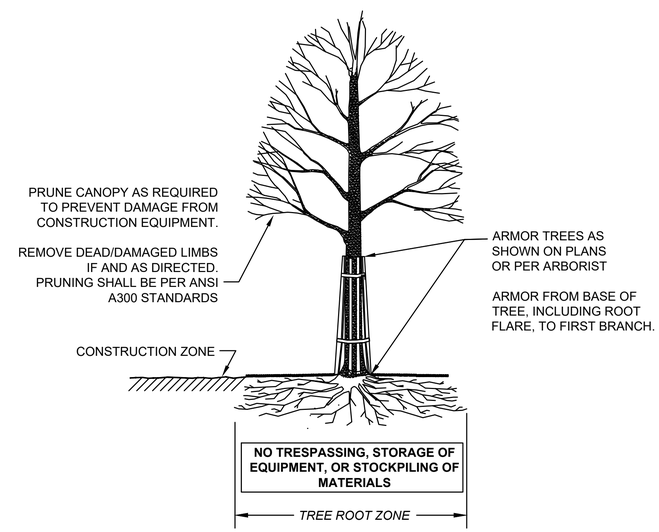
SECTION - FENCE PROTECTION OF ROOT ZONE



PLAN VIEW - FENCE PROTECTION OF ROOT ZONE

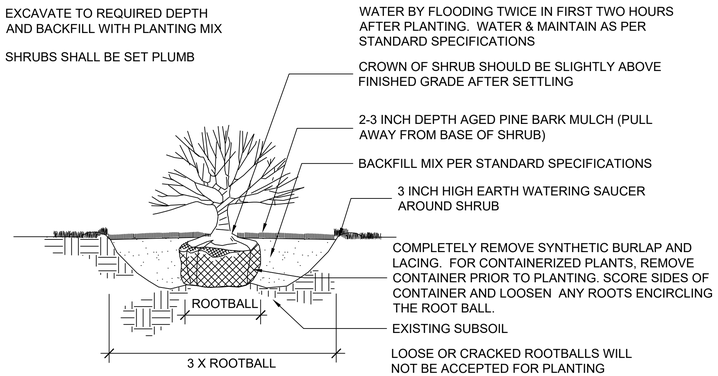
TREE PROTECTION ROOT ZONE

NOT TO SCALE



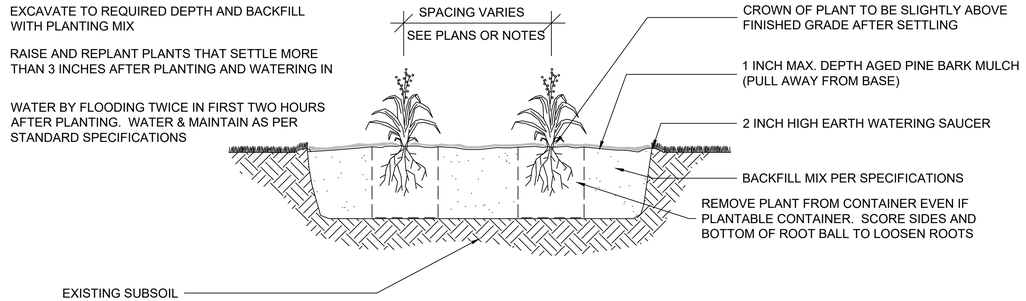
SECTION - TRUNK ARMORING & PRUNING

TREE PROTECTION TRUNK



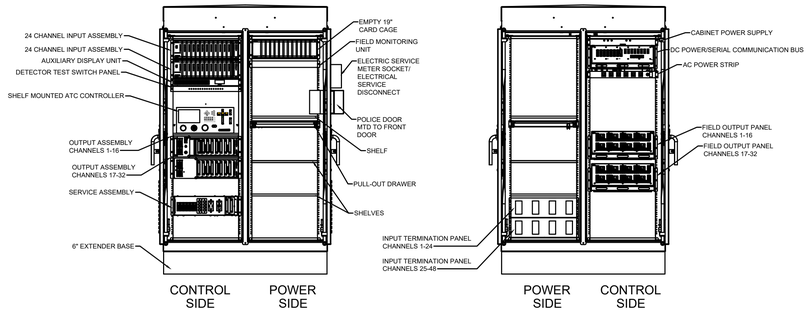
SHRUB PLANTING

NOT TO SCALE



PERENNIAL PLANTING

NOT TO SCALE

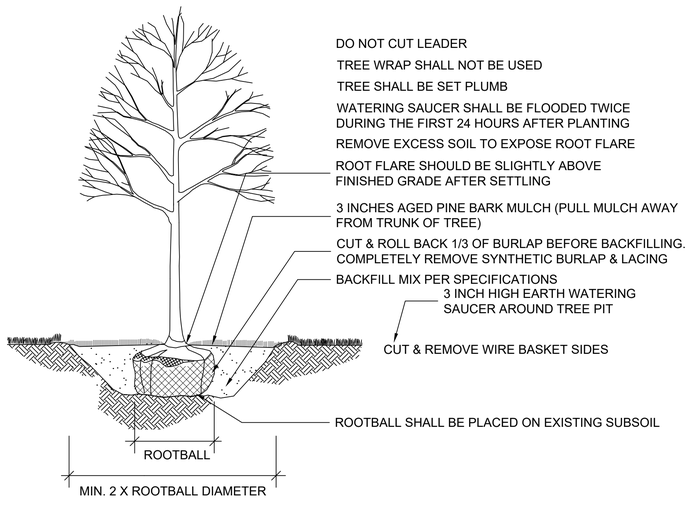


NOTES:
1. DRAWING SHOWN IS A SCHEMATIC REPRESENTATION OF THE ATC CABINET DEPICTING THE RELATIVE LOCATION OF VARIOUS IN-CABINET DEVICES AND SUBASSEMBLIES. THE EXACT SIZE OF VARIOUS ELEMENTS MAY VARY PER MANUFACTURER.
2. INPUT TERMINATION PANEL SHOWN IS FOR VIDEO BASED AND LOOP BASED INPUTS.
3. DRAWING DEPICTS TWO INPUT PANELS AND TWO OUTPUT PANELS. THIS QUANTITY MAY BE REDUCED DEPENDING ON APPLICATION; SEE SPECIAL PROVISIONS FOR NUMBER OF PANELS TO BE SUPPLIED.
4. FAN AND THERMOSTAT SHALL BE INSTALLED ON CABINET FRAME ABOVE THE DOOR. ALL EXPOSED ELECTRICAL TERMINALS SHALL BE COVERED WITH NON-CONDUCTIVE MATERIAL.
5. LED LIGHT STRIPS SHALL BE INSTALLED ON CABINET FRAME ABOVE THE DOOR AND ON THE UNDERSIDE OF THE LOWER SHELF.
6. THE SIZE OF THE METER SOCKET WILL VARY BASED ON THE LOCAL ELECTRIC UTILITY COMPANY REQUIREMENT.
7. THE METER SHALL BE INSTALLED SUCH THAT THE BOTTOM OF THE METER IS AT LEAST 48 INCHES ABOVE FINAL GRADE.
8. THE LOAD SIDE CABLE SHALL BE ROUTED THROUGH THE INTERIOR OF THE CABINET SUCH THAT IT DOES NOT BLOCK OR ENTER INTO AVAILABLE RACK SPACE. THE CABLE SHALL BE ROUTED BETWEEN THE EDGE OF THE RACK SYSTEM AND THE CABINET SIDE WALL, ALONG THE BOTTOM OF THE CABINET AND BELOW THE BOTTOM OPENING OF THE DOORS.

NOMINAL TERMINAL PANEL SIZE
PER 24 INPUT RACK:
LOOP = 6U HIGH (10.5")
VIDEO = 3U HIGH (5.25")

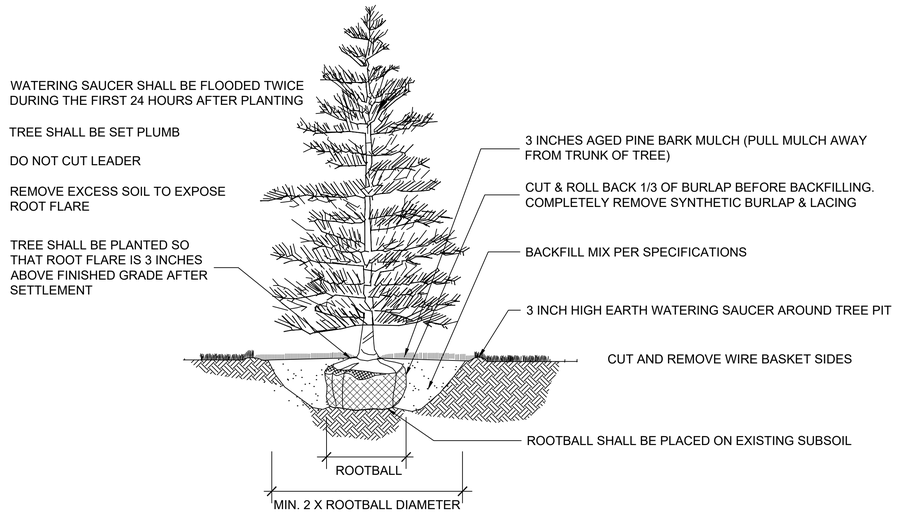
MassDOT 32/48 ATC CABINET - FOUR DOOR

SCALE: N.T.S. DATE: DECEMBER 2024



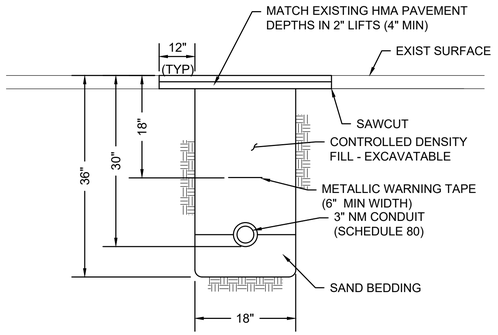
DECIDUOUS TREE PLANTING

NOT TO SCALE



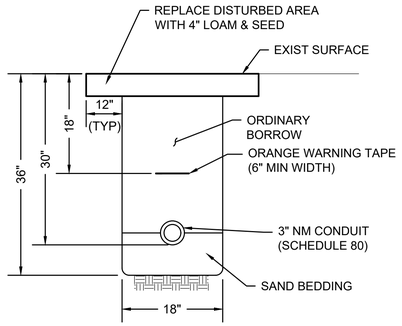
EVERGREEN TREE PLANTING

NOT TO SCALE



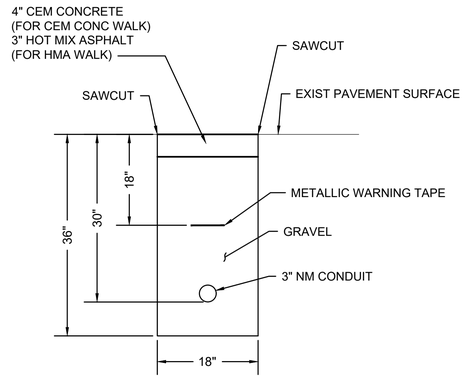
CONDUIT CROSSING ROADWAY/DRIVEWAY

SCALE: N.T.S.



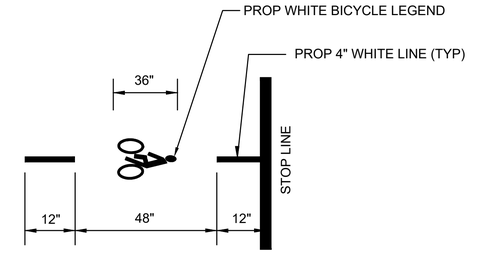
CONDUIT IN GRASS

SCALE: N.T.S. DWG: TRENCH-02 DATE: MARCH 2013



CONDUIT IN SIDEWALK

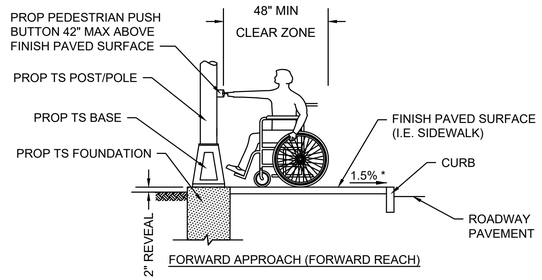
SCALE: N.T.S.



NOTES:
1. BICYCLE LEGEND SHALL CONFORM TO THE 2004 EDITION OF STANDARD HIGHWAY SIGNS AND SCALED APPROPRIATELY TO OBTAIN REQUIRED HEIGHT OF MARKINGS.
2. MARKINGS SHALL BE REFLECTORIZED THERMOPLASTIC.

BICYCLE LEGEND DETAIL

SCALE: N.T.S.



NOTE:
A CLEAR GROUND SPACE SHALL CONSIST OF A STABLE AND FIRM AREA, COMPLYING WITH 521 CMR 6.5 (FORWARD REACH) OR 521 CMR 6.6 (SIDE REACH) AND SHALL BE PROVIDED AT EACH OF THE PEDESTRIAN PUSH BUTTONS.

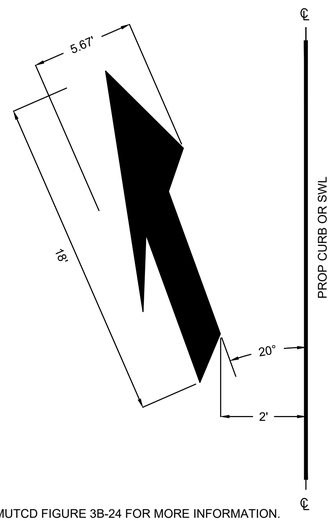
a. WHERE A FORWARD APPROACH IS PROVIDED, PEDESTRIAN PUSH BUTTONS SHALL ABUT AND BE CENTERED ON THE CLEAR GROUND SPACE.

b. WHERE A PARALLEL APPROACH IS PROVIDED, PEDESTRIAN PUSH BUTTONS SHALL BE WITHIN TEN INCHES (10") HORIZONTALLY OF AND CENTERED ON THE CLEAR GROUND SPACE.

* TOLERANCE FOR CONSTRUCTION ±0.5%

PEDESTRIAN PUSH BUTTON CLEAR ZONE

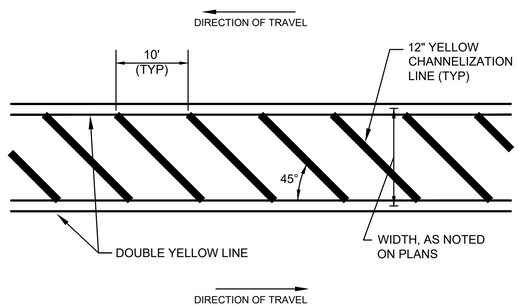
SCALE: N.T.S. DWG: PM-10 DATE: APRIL 2013



NOTES:
1. SEE MUTCD FIGURE 3B-24 FOR MORE INFORMATION.
2. LANE REDUCTION MARKING SHALL BE REFLECTORIZED PREFORMED THERMOPLASTIC.

LANE-REDUCTION ARROW

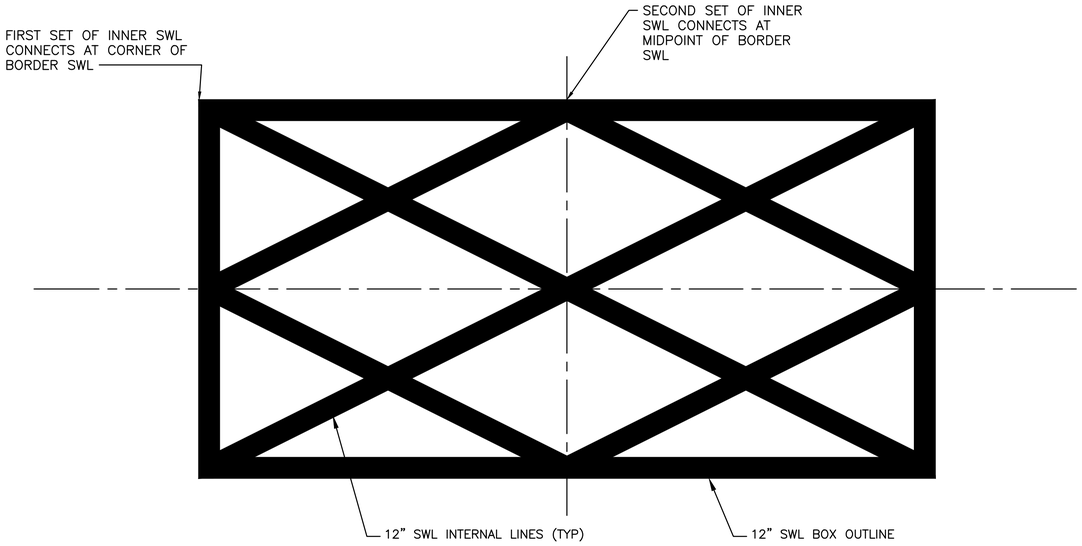
SCALE: N.T.S. DWG: PM-22 DATE: JUNE 2016



NOTES:
1. ALL 12" LINES SHALL BE APPLIED IN ONE APPLICATION, NO COMBINATION OF LINES (e.g. TWO - 6" LINES) WILL BE ACCEPTED.

CHANNELIZED MARKINGS - MEDIAN FOR ROADWAYS 40MPH OR LESS

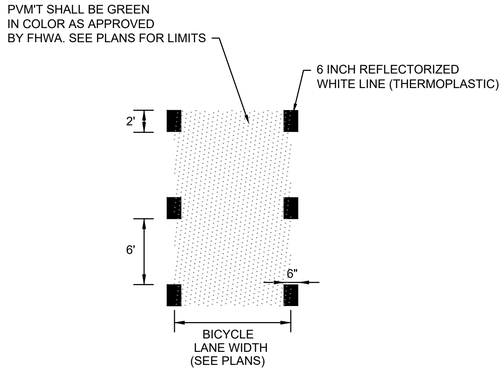
SCALE: NTS DWG: PM-13 DATE: OCT 2015



NOTE:
ALL 12" REFLECTORIZED THERMOPLASTIC LINES SHALL BE APPLIED IN ONE APPLICATION, NO COMBINATION OF LINES (TWO – 6" LINES) WILL BE ACCEPTED.

DO NOT BLOCK INTERSECTION MARKINGS

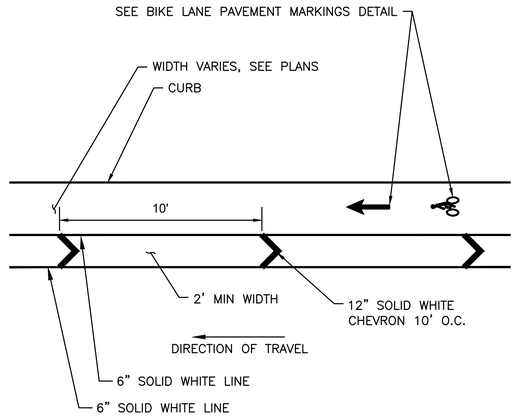
SCALE: NTS



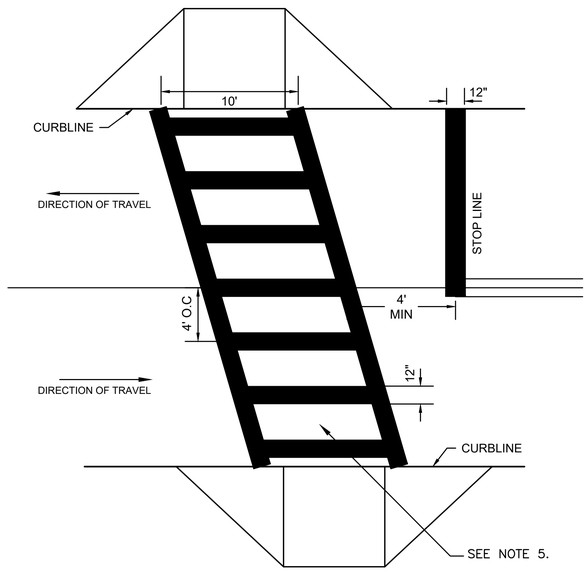
NOTES:
1. SEE ITEM 864.41 FOR COLORED BICYCLE LANES.

BICYCLE CROSSING

SCALE: N.T.S.



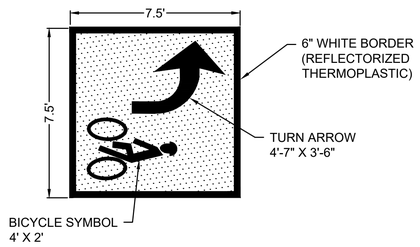
SEPARATED BIKE LANE MARKINGS



NOTES:
1. ALL EXISTING CROSSWALK MARKINGS SHALL BE FULLY ERADICATED BY APPROVED METHOD PRIOR TO THE APPLICATION OF PROPOSED MARKINGS.
2. ALL 12" THERMOPLASTIC LINES SHALL BE APPLIED IN ONE APPLICATION, NO COMBINATION OF LINES (TWO - 6" LINES) WILL BE ACCEPTED.
3. LAYOUT OF CROSSWALKS SHALL BE ORIENTATED IN THE DIRECTION OF TRAVEL AND LOCATED OUTSIDE OF THE WHEEL PATH OF VEHICLES. LAYOUT SHALL BE APPROVED BY MASSDOT PRIOR TO APPLICATION OF THERMOPLASTIC.
4. ALL CROSSWALKS INSTALLED SHALL CONFORM TO THE RELEVANT PROVISIONS OF THE MASSACHUSETTS HIGHWAY DEPARTMENT "STANDARD SPECIFICATION FOR HIGHWAY AND BRIDGES" DATED 2024, SECTION 860 FOR REFLECTORIZED LINE (THERMO-PLASTIC) & MATERIAL M7.01.03, LATEST REVISIONS.
5. THE CROSSWALK SHALL BE LOCATED SUCH THAT THERE IS A 4' DIAMETER LOWER LANDING AREA IN THE ROADWAY ADJACENT TO THE RAMP OPENING THAT FITS ENTIRELY WITHIN THE LONGITUDINAL LINES OF THE CROSSWALK.

LADDER-STYLE CROSSWALK - 12" WIDE LINES

SCALE: N.T.S. DWG: PM-27 DATE: MAY 2017

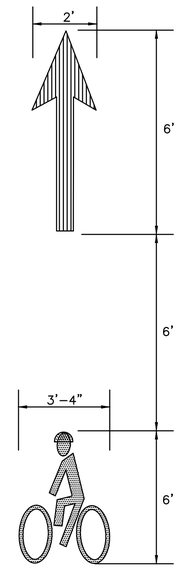


LIMITED SPACE

NOTES:
1. LEGEND MARKINGS SHALL BE REFLECTORIZED PREFORMED THERMOPLASTIC.
2. PAVEMENT SHALL BE PAINTED GREEN IN COLOR AS APPROVED BY FHWA.

TWO-STAGE TURN QUEUE BOX

SCALE: N.T.S. DWG: PM-25 DATE: MARCH 2021



NOTES:
1. SEE MUTCD FIGURE 9C–3B FOR MORE INFORMATION.
2. BIKE LANE MARKINGS SHALL BE REFLECTORIZED PREFORMED THERMOPLASTIC.

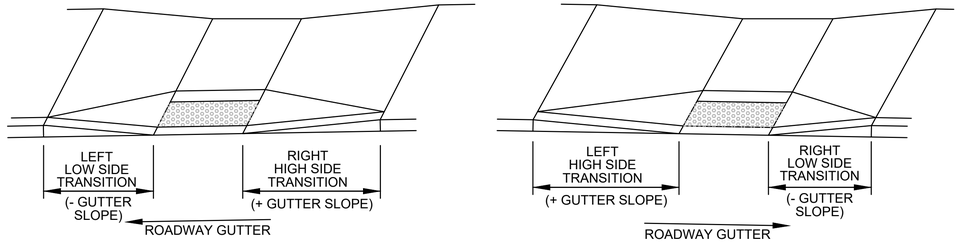
BIKE LANE PAVEMENT MARKINGS

SCALE: N.T.S. DWG: PM-11 DATE: NOV 2015

PEDESTRIAN CURB RAMP IN SIDEWALK LESS THAN 12'-4"											
NO.	LOCATION (REFERENCE POINT)	RAMP WIDTH	RAMP LENGTH, W1	SIDEWALK WIDTH	LEFT SIDE			RIGHT SIDE			NOTES
					ROADWAY GUTTER	REVEAL	TRANS	ROADWAY GUTTER	REVEAL	TRANS	
ROUTE 20											
1	104+82.7, 29.1' LT	5.0'	4.0'	8.0	-1.85%	6"	6.50'	1.10%	6"	11.00'	SEE PEDESTRIAN CURB RAMP DETAIL ON SHEET 51
2	105+06.8, 44.5' LT	5.0'	4.0'	8.0	-1.95%	6"	7.67'	2.15%	6"	14.00'	SEE PEDESTRIAN CURB RAMP DETAIL ON SHEET 51
3	105+69.3, 45.0' LT	5.0'	4.0'	8.0	0.45%	6"	9.00'	-0.40%	6"	9.00'	SEE PEDESTRIAN CURB RAMP DETAIL ON SHEET 51
4	105+91.3, 30.6' LT	5.0'	4.0'	8.0	-4.00%	6"	6.50'	1.45%	6"	11.00'	SEE PEDESTRIAN CURB RAMP DETAIL ON SHEET 51
5	105+91.4, 30.0 RT	5.0'	4.0'	8.0	1.00%	6"	9.00'	-1.25%	6"	7.88'	SEE PEDESTRIAN CURB RAMP DETAIL ON SHEET 52
6	105+71.8, 46.8' RT	5.0'	4.0'	8.0	-1.15%	6"	7.88'	2.50%	6"	14.00'	SEE PEDESTRIAN CURB RAMP DETAIL ON SHEET 52
7	105+17.8, 46.4' RT	5.0'	4.0'	8.0	4.35%	6"	15.00'	-2.30%	6"	6.50'	SEE PEDESTRIAN CURB RAMP DETAIL ON SHEET 52
8	104+82.6, 29.0' RT	5.0'	4.0'	8.0	1.80%	6"	14.00'	-1.85%	6"	6.50'	SEE PEDESTRIAN CURB RAMP DETAIL ON SHEET 52

NOTE:

1. TOLERANCE FOR CONSTRUCTION ±0.5%
2. NEGATIVE (-) ROADWAY GUTTER SLOPE DENOTES A LOW SIDE TRANSITION.



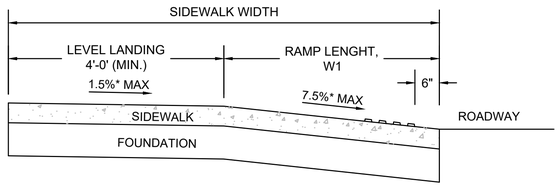
ROADWAY GUTTER SLOPES EXPLANATORY DIAGRAM FOR WHEELCHAIR RAMP DATA CHARTS

SCALE: N.T.S.

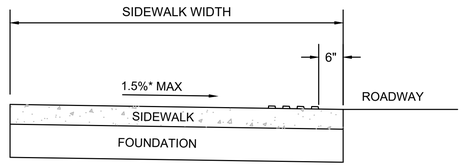
PEDESTRIAN CURB RAMP DATA - IN SIDEWALK LESS THAN 6'-6"										
NO.	LOCATION (REFERENCE POINT)	RAMP WIDTH	SIDEWALK WIDTH	LEFT SIDE			RIGHT SIDE			NOTES
				ROADWAY GUTTER	REVEAL	TRANS	ROADWAY GUTTER	REVEAL	TRANS	
WINSOR WAY										
10	0+46.82, 12.0' RT	5.0'	6.0'	-5.20%	6"	6.50'	5.45%	6"	15.00'	SEE PEDESTRIAN CURB RAMP DETAIL ON SHEET 52

NOTE:

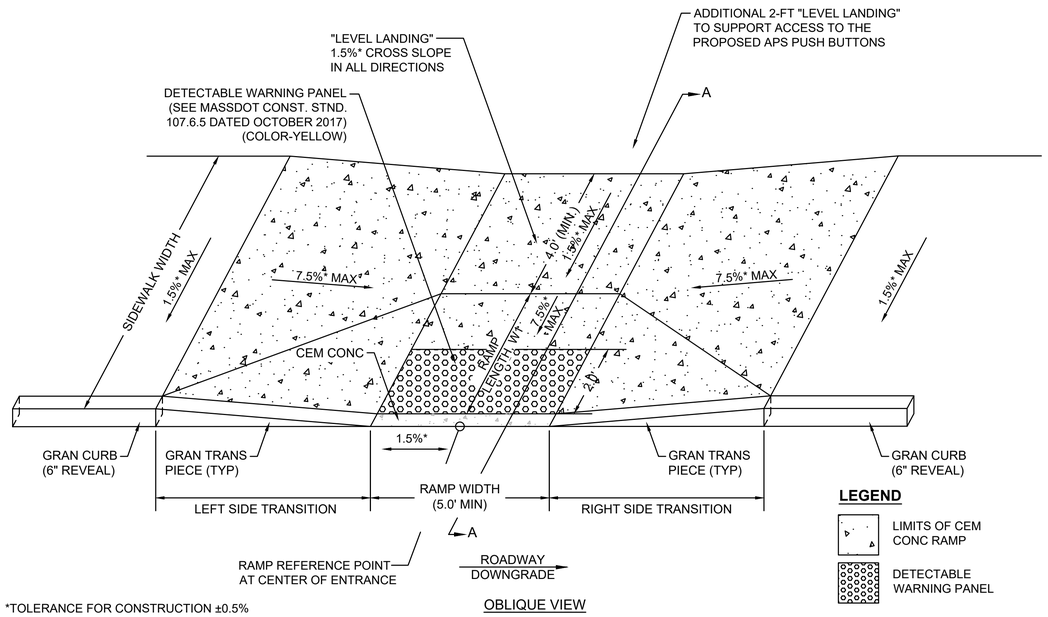
1. TOLERANCE FOR CONSTRUCTION ±0.5%
2. NEGATIVE (-) ROADWAY GUTTER SLOPE DENOTES A LOW SIDE TRANSITION.



SECTION A-A



SECTION A-A

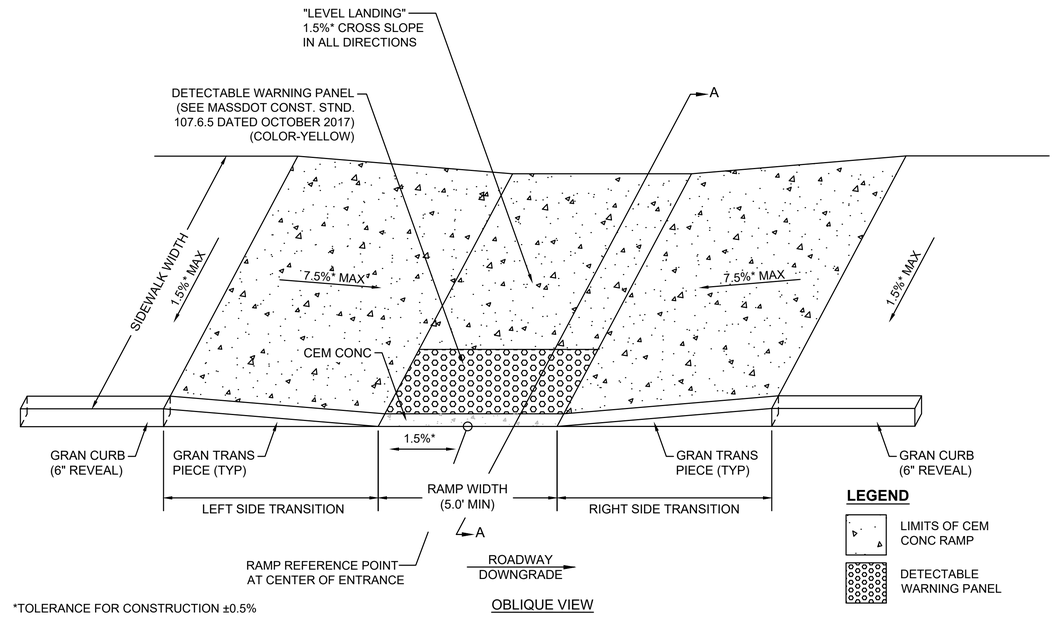


*TOLERANCE FOR CONSTRUCTION ±0.5%

OBLIQUE VIEW

PEDESTRIAN CURB RAMP IN SIDEWALK LESS THAN 12'-4"

SCALE: NTS MassDOT STANDARD DETAIL REFERENCE: E 107.2.2



*TOLERANCE FOR CONSTRUCTION ±0.5%

OBLIQUE VIEW

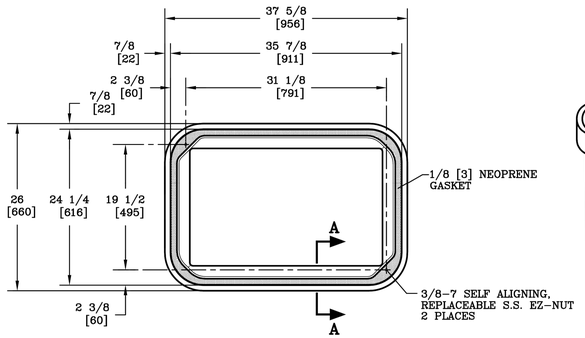
PEDESTRIAN CURB RAMP IN SIDEWALK LESS THAN 6'-6"

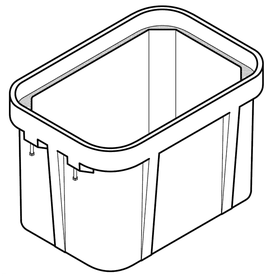
SCALE: NTS MassDOT STANDARD DETAIL REFERENCE: E 107.2.1

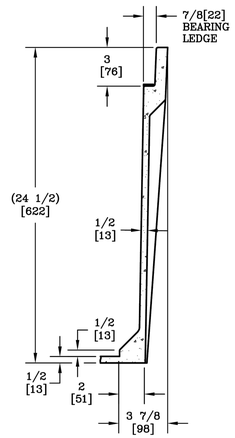
WESTON
ROUTE 20 / WELLESLEY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	HSI-0036(022)X	49	71
PROJECT FILE NO.	608940		

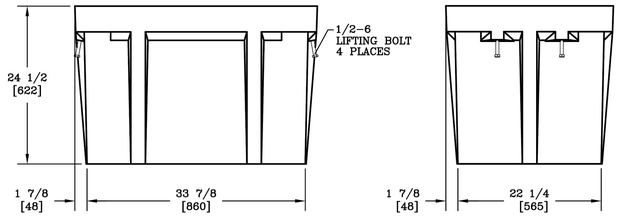
PEDESTRIAN CURB RAMP DETAILS







SECTION A–A
SCALE: 6"=1'



NOTE:

1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.

DIMENSIONS ARE IN INCHES OR MILLIMETERS IN BRACKETS UNLESS OTHERWISE NOTED.

	BY	DATE
DRN	JJP	6/18/04
CHK	KPG	6/18/04
ENG		
APR	MBF	6/18/04
APR		

WEIGHT 197# 89kg
SCALE 1"=1'
SIZE B

HUBBELL®
3621 INDUSTRIAL PARK DR
LENOIR CITY, TN 37771
800-346-3062
www.quazite.com

DRAWING DESCRIPTION
QUAZITE® BOX

LOC S
REV B
3/12

PROJECT NUMBER 04657
SHEET 1 OF 1
DRAWING NUMBER PG2436DG24

UL LISTED

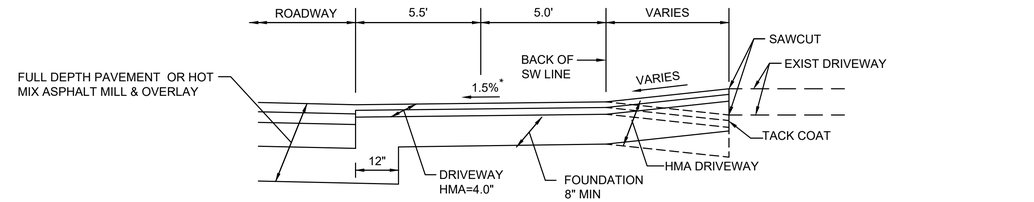
ELECTRIC HANDHOLE POLYMER CONCRETE

SCALE: N.T.S.

DRIVEWAY TRANSITION CHART										
NO.	DRIVEWAY (REFERENCE POINT)	DRIVEWAY WIDTH	SIDEWALK WIDTH AT DRIVEWAY	PATH OF TRAVEL MIN 3'-0"	ROADWAY GUTTER SLOPE	TRANSITION LENGTH		DRIVEWAY SLOPE	REVEAL	
						LEFT SIDE	RIGHT SIDE		LEFT SIDE	RIGHT SIDE
BOSTON POST ROAD BASELINE										
①	14+76.6, 19.2' LT	20'-0"	5'-0"	5'-0"	-0.50%	7'-8"	6'-6"	1.50%	6"	6"

NOTE:

1. DIRECTION OF ROADWAY SLOPE (POS/NEG) FOLLOWS THE SLOPE DIRECTION OF BASELINE PROFILE.



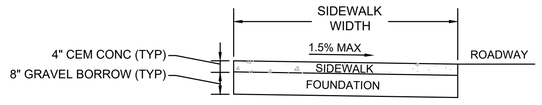
SECTION A-A

* TOLERANCE FOR CONSTRUCTION ±0.5%

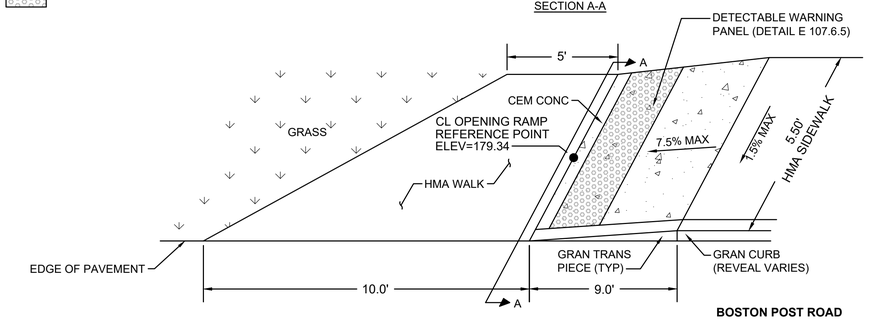
LEGEND

LIMITS OF CEM CONC RAMP

DETECTABLE WARNING PANEL



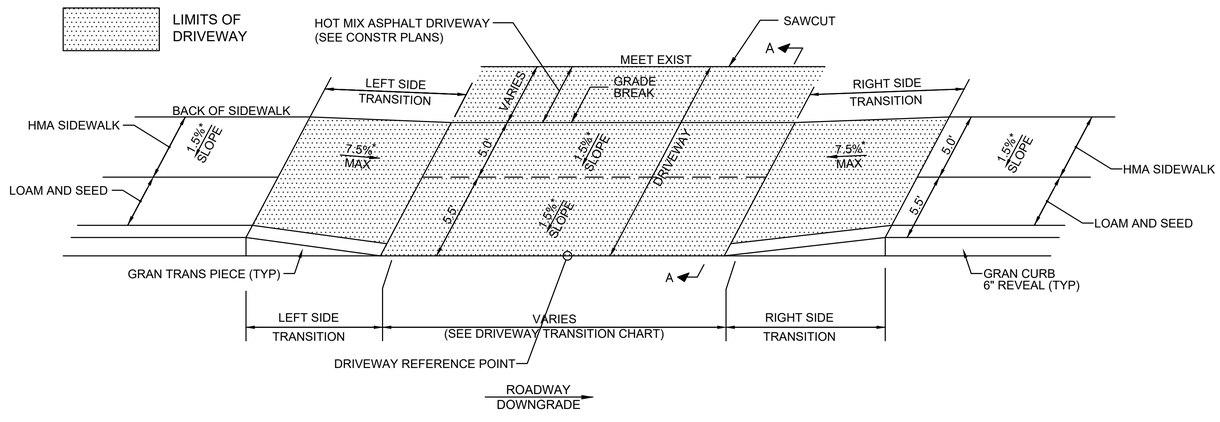
SECTION A-A



OBLIQUE VIEW

*TOLERANCE FOR CONSTRUCTION ±0.5%

PEDESTRIAN CURB RAMP - PCR 11 (STA 13+10.4, 17.20' RT - BOSTON POST ROAD)



OBLIQUE VIEW

*TOLERANCE FOR CONSTRUCTION ±0.5%

TYPICAL HOT MIX ASPHALT DRIVEWAY WITH SIDEWALK AND WITHOUT CURB RETURNS

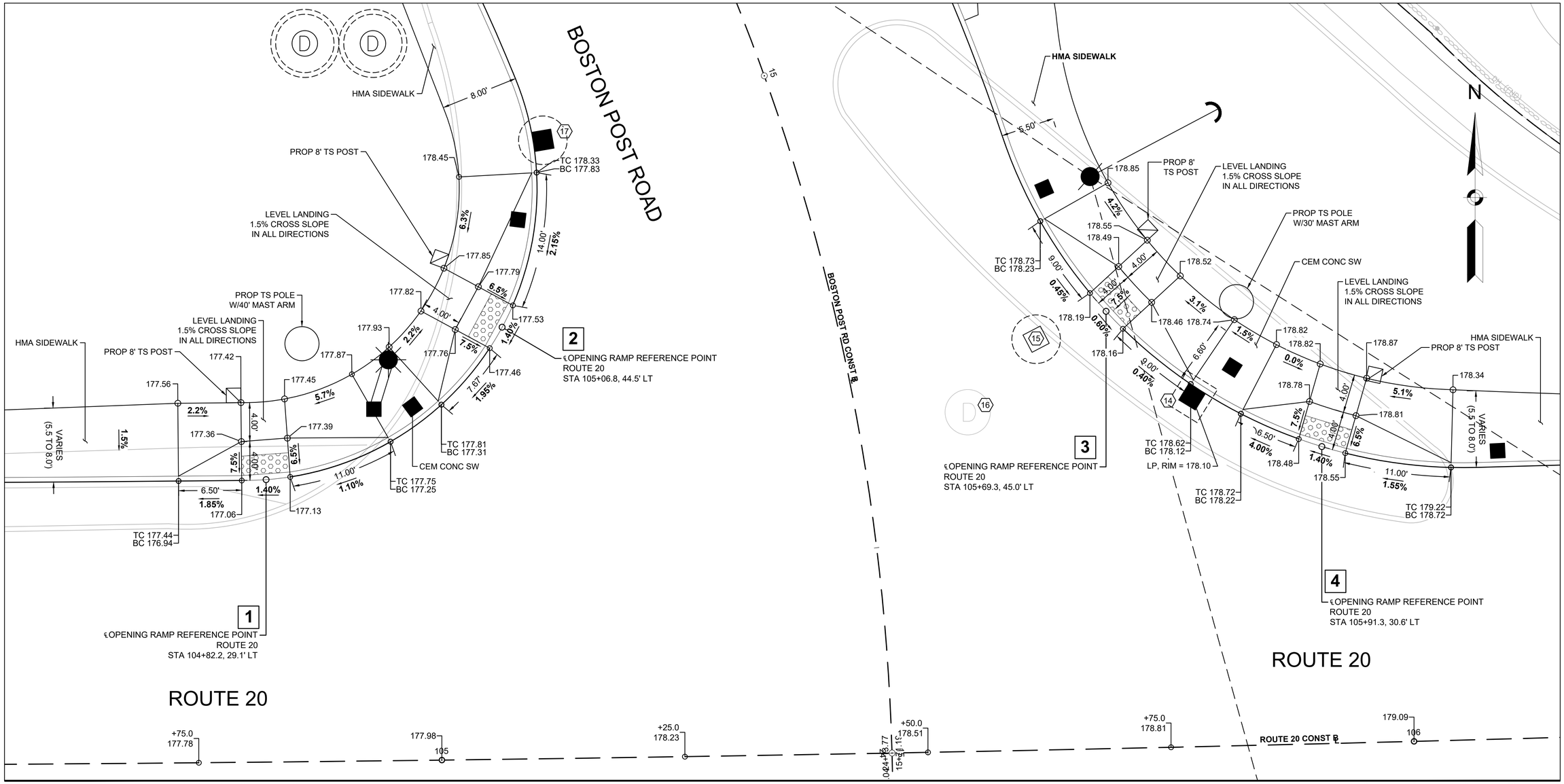
SCALE: NTS

WESTON
ROUTE 20 / WELLESLEY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	HSI-0036(022)X	51	71
PROJECT FILE NO.	608940		

PEDESTRIAN CURB RAMP DETAILS

14360_HD(DET).DWG Plotted on 30-Jan-2026 1:47 PM



PEDESTRIAN CURB RAMPS #1, #2, #3 AND #4
SCALE: 1" = 5'

0 5 10 20 30
SCALE: 1" = 5'

WESTON
ROUTE 20 / WELLESLEY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	HSI-0036(022)X	52	71
PROJECT FILE NO.	608940		

PEDESTRIAN CURB RAMP DETAILS

N

ROUTE 20

ROUTE 20 CONST ℄

WELLESLEY ST CONST ℄

WELLESLEY STREET

+75.0 177.78
177.98 105
+25.0 178.23
+50.0 178.51
PC +08.02 24+78.77 15+41.15
+75.0 178.81
179.09 106

8
℄OPENING RAMP REFERENCE POINT
ROUTE 20
STA 104+82.6, 29.0' LT

TC 177.45
BC 176.95
1.85%
6.50'
177.07
1.40%
177.14
1.80%
14.00'
TC 177.89
BC 177.39
7.5%
4.00'
6.5%
177.37
177.40
4.00'
3.1%
5.1%
177.57
PROP 8' TS POST
177.43
LEVEL LANDING
1.5% CROSS SLOPE
IN ALL DIRECTIONS
177.46
8.00'
178.01
5.51'
TC 178.16
BC 177.66
2.30%
6.50'
177.81
178.11
7.5%
2.1%
4.00'
177.97
178.28
APPROXIMATE
LIMIT OF GRADING
PROP TS POLE W/40' MAST ARM
4.00'
178.17
4.0%
178.13
178.19
LEVEL LANDING
1.5% CROSS SLOPE
IN ALL DIRECTIONS
PROP 8' TS POST
4.35%
15.00'
TC 179.12
BC 178.62
10

7
℄OPENING RAMP REFERENCE POINT
ROUTE 20
STA 105+17.8, 46.4' RT

5
℄OPENING RAMP REFERENCE POINT
ROUTE 20
STA 105+91.4, 30.0' RT

TC 179.04
BC 178.54
178.45
1.00%
9.00'
CEM CONC SW
TC 178.82
BC 178.32
178.42
0.60%
1.25%
7.88'
LP, RIM = 178.20
TC 178.77
BC 178.27
7.5%
4.00'
7.0%
178.73
13
D
12
178.72
4.00'
4.9%
8.00'
PROP 8'
TS POST
178.79
179.16
LEVEL LANDING
1.5% CROSS SLOPE
IN ALL DIRECTIONS
178.78
178.94
178.89

6
℄OPENING RAMP REFERENCE POINT
ROUTE 20
STA 105+71.8, 46.8' RT

1.5%
7.88'
5.51'
2.8%
178.36
7.0%
178.66
2.9%
0.60%
CEM CONC SW
PROP TS POLE W/35' MAST ARM
178.39
9.00'
178.72
4.00'
LEVEL LANDING 1.5% CROSS
SLOPE IN ALL DIRECTIONS
7.5%
178.69
178.75
14.00'
2.50%
5.1%
PROP 8' TS POST
TC 179.24
BC 178.74
179.36
HMA SIDEWALK
8.00'
11
10.50'

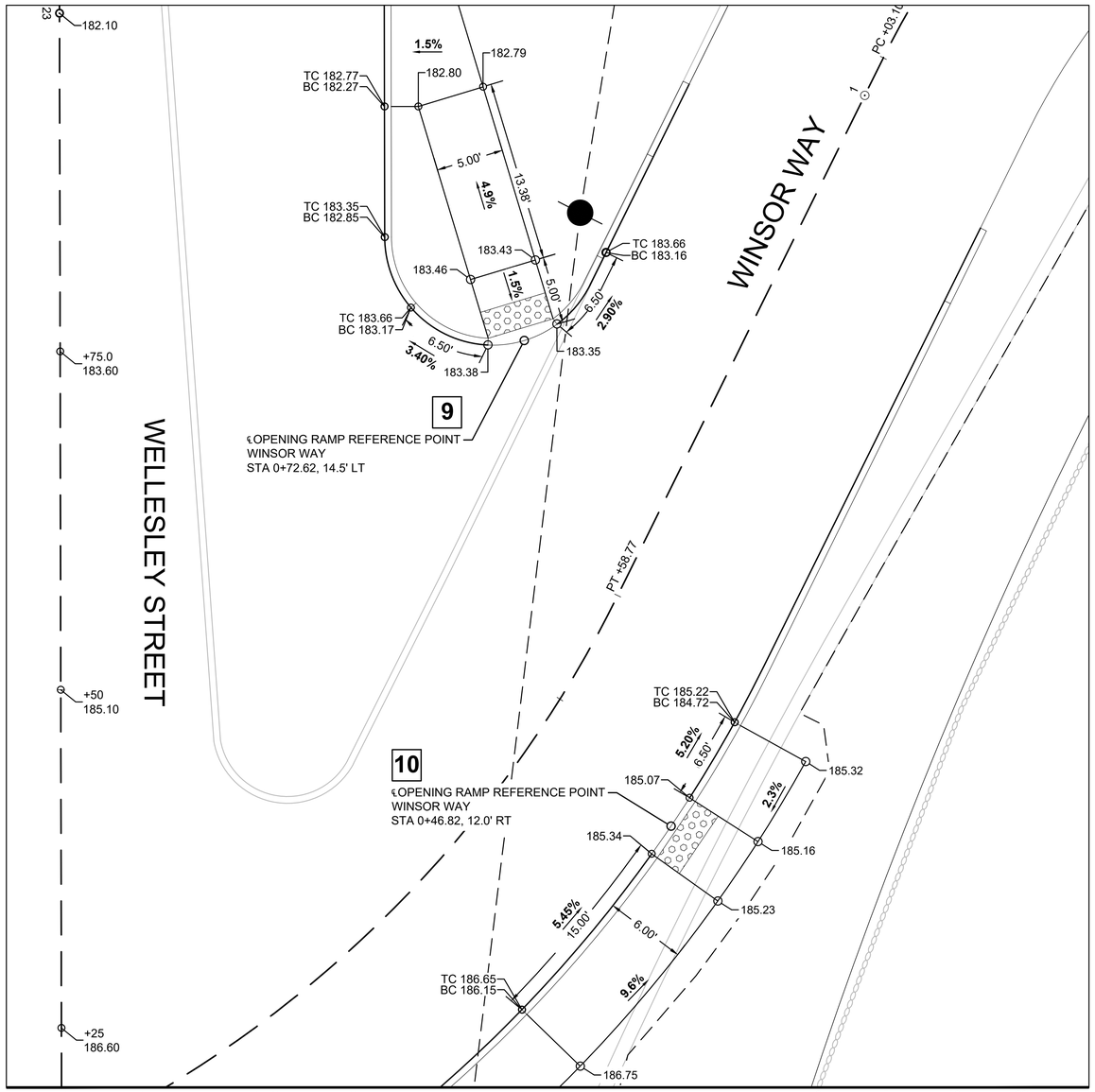
PEDESTRIAN CURB RAMPS #5, #6, #7 AND #8
SCALE: 1" = 5'

0 5 10 20 30
SCALE: 1" = 5'

WESTON
ROUTE 20 / WELLESLEY STREET

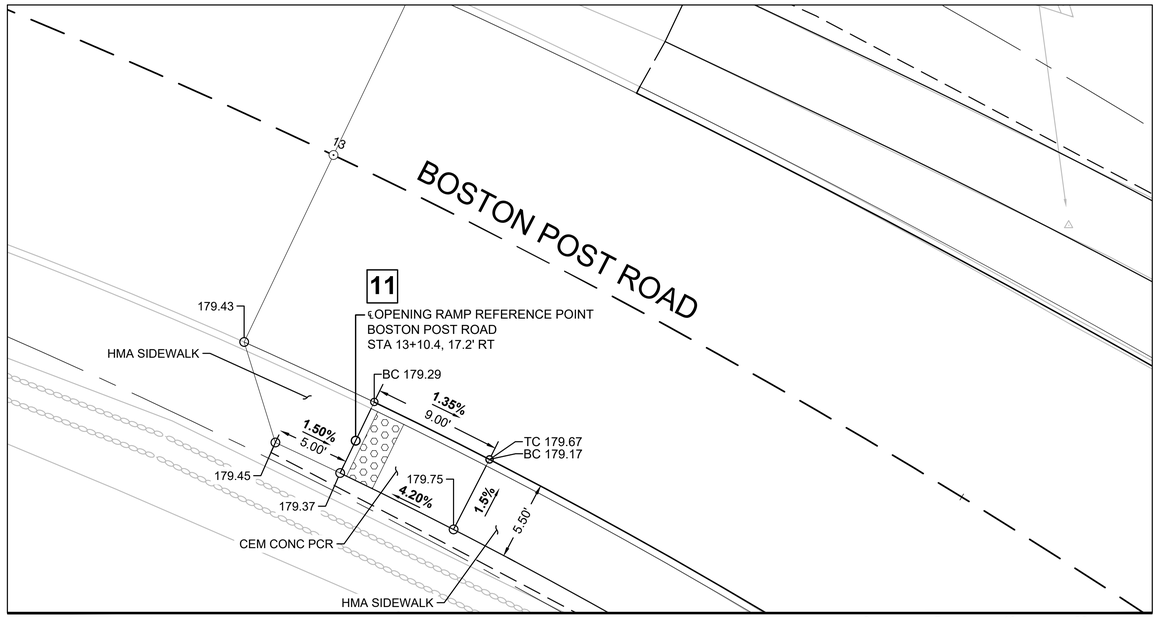
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	HSI-0036(022)X	53	71
PROJECT FILE NO.	608940		

PEDESTRIAN CURB RAMP DETAILS



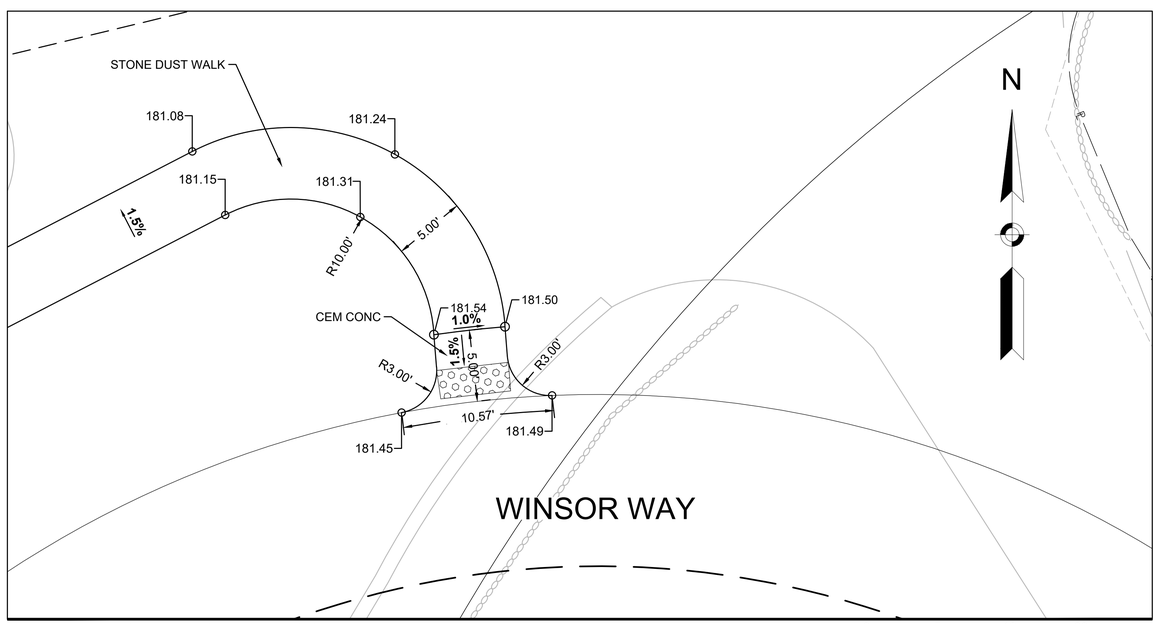
PEDESTRIAN CURB RAMPS #9, AND #10
SCALE: 1" = 5'

0 5 10 20
SCALE: 1" = 5'



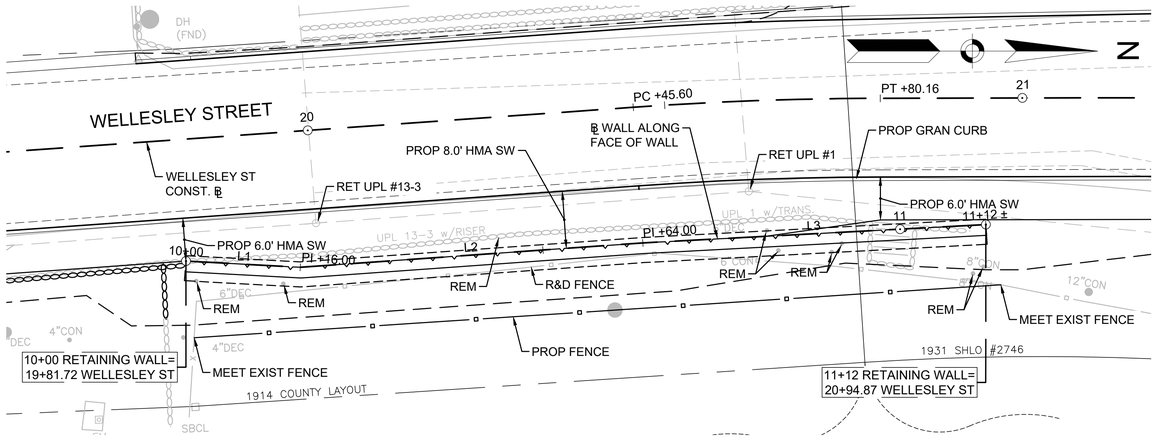
PEDESTRIAN CURB RAMPS #11
SCALE: 1" = 5'

0 5 10 20
SCALE: 1" = 5'



SIDEWALK GRADING AT WINSOR WAY
SCALE: 1" = 5'

0 5 10 20
SCALE: 1" = 5'



PLAN - RETAINING WALL

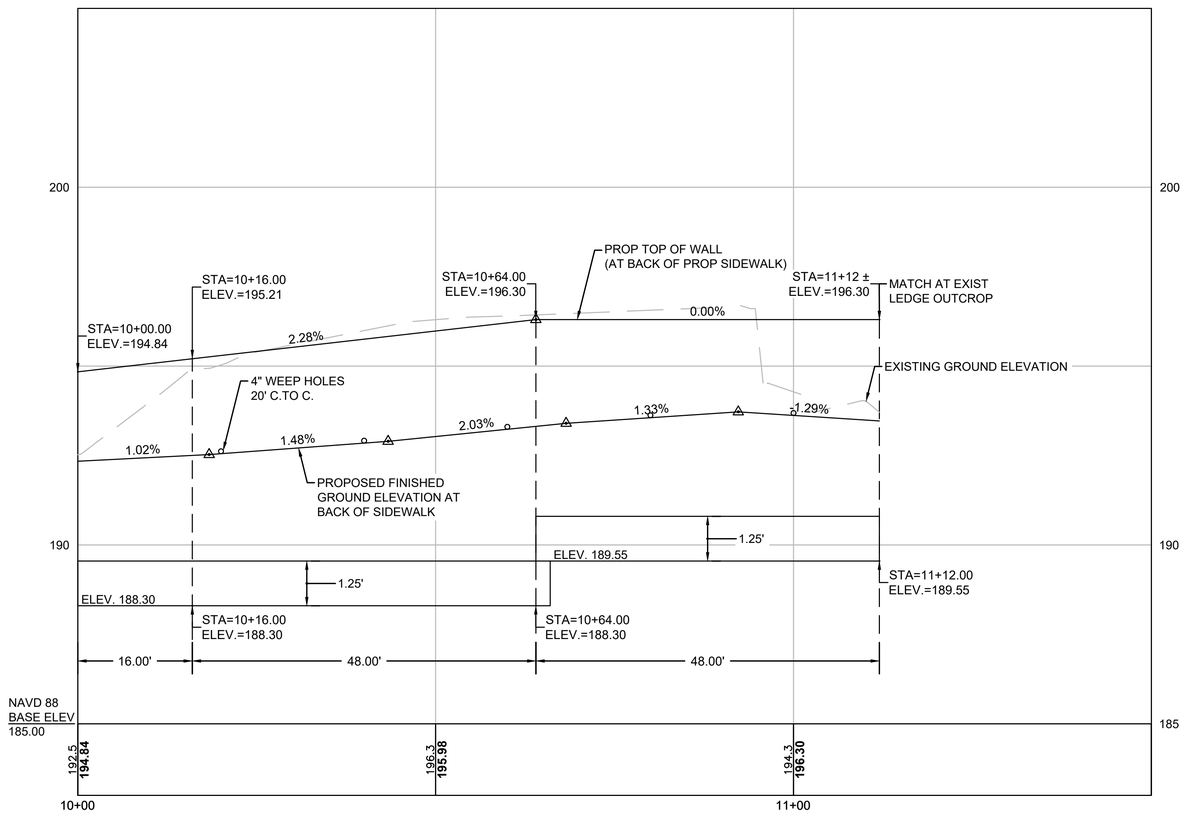
SCALE: 1" = 10'

RETAINING WALL CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L1	10+00.00 17.00' RT	2958530.9910	712713.0864		N3°06'33"E 16.00'	10+16.00	2958546.9674	712713.9543
L2	10+16.00 19.00' RT	2958546.9674	712713.9543		N4°04'07"W 48.00'	10+64.00	2958594.8465	712710.5485
L3	10+64.00 19.00' RT	2958594.8465	712710.5485		N3°03'04"W 48.00'	11+12.00	2958642.7784	712707.9937

WESTON
ROUTE 20 / WELLESLEY STREET

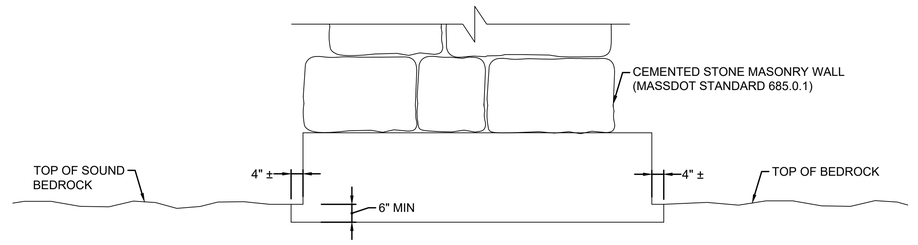
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	HSI-0036(022)X	54	71
	PROJECT FILE NO. 608940		

RETAINING WALL



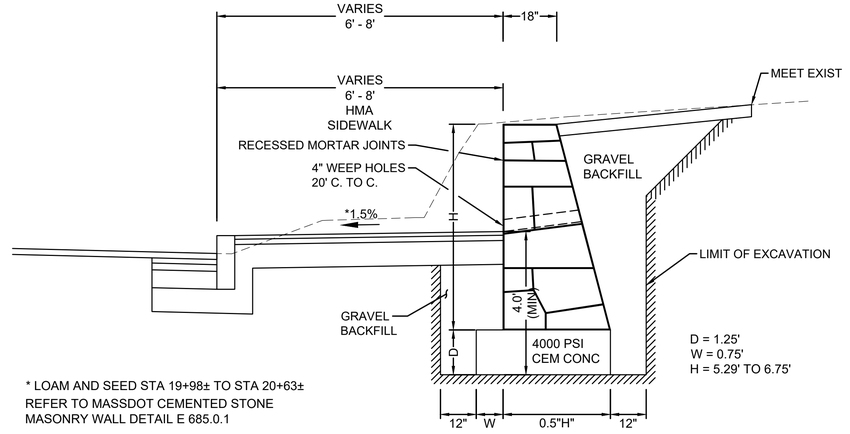
PROFILE - RETAINING WALL

HORIZONTAL SCALE: 1" = 10'
VERTICAL SCALE: 1" = 2'



CEMENT STONE MASONRY WALL ON ROCK

SCALE: 1" = 2'



* LOAM AND SEED STA 19+98± TO STA 20+63±
REFER TO MASSDOT CEMENTED STONE
MASONRY WALL DETAIL E 685.0.1

TYPICAL SECTION - RETAINING WALL

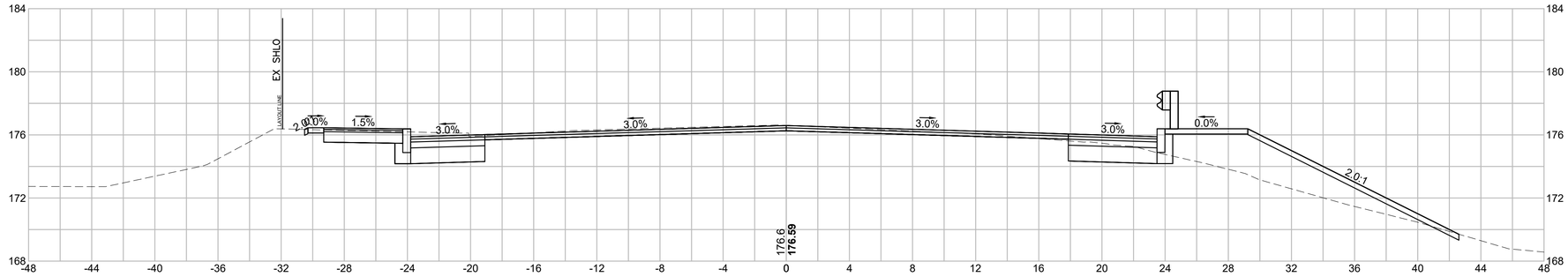
SCALE: 1" = 2'

WESTON
ROUTE 20 / WELLESLEY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	HSI-0036(022)X	55	71
PROJECT FILE NO.	608940		

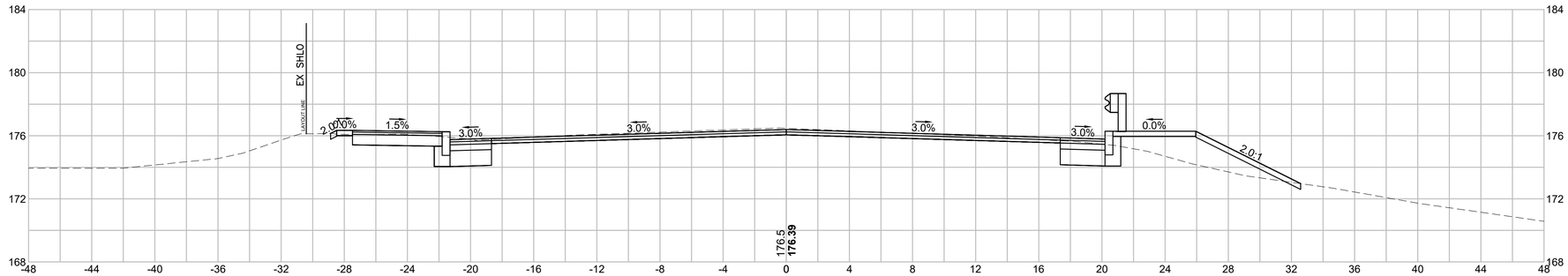
CROSS SECTIONS - ROUTE 20

102+00



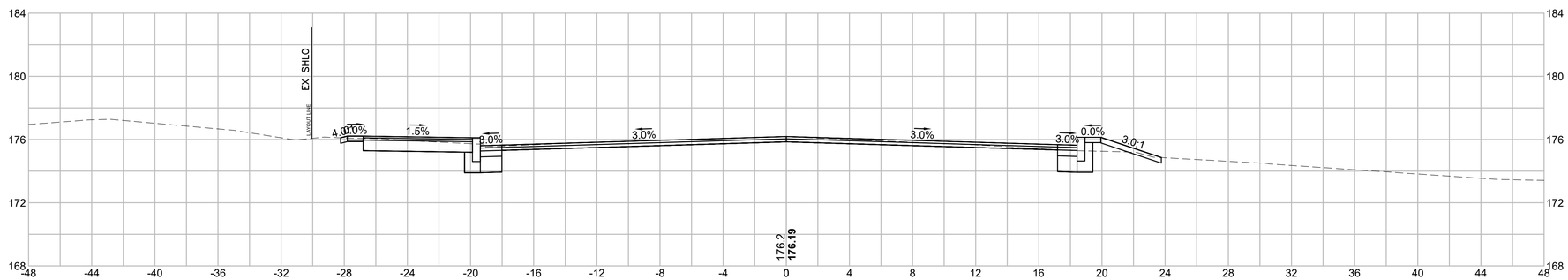
Material(s) at Station 102+00.00		
Material Name	Area (sf)	Volume (cy)
CUT - Rte 20 RT	7.0	11.7
FILL - Rte 20 RT	25.0	33.1
CUT - Rte 20 LT	14.4	22.7
FILL - Rte 20 LT	0.0	0.0

101+50



Material(s) at Station 101+50.00		
Material Name	Area (sf)	Volume (cy)
CUT - Rte 20 RT	5.6	8.4
FILL - Rte 20 RT	10.7	10.6
CUT - Rte 20 LT	10.1	17.5
FILL - Rte 20 LT	0.0	0.0

101+00



Material(s) at Station 101+00.00		
Material Name	Area (sf)	Volume (cy)
CUT - Rte 20 RT	3.4	0.0
FILL - Rte 20 RT	0.7	0.0
CUT - Rte 20 LT	8.8	0.0
FILL - Rte 20 LT	0.0	0.0

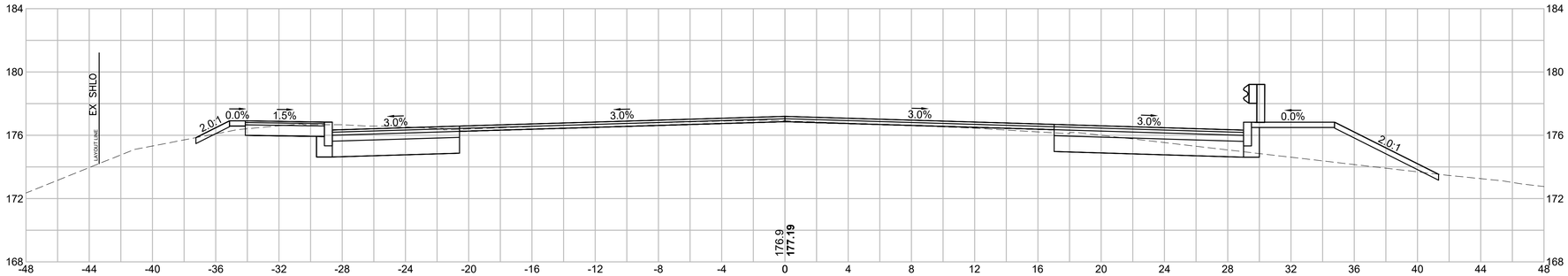
HOR. SCALE IN FEET
20 0 20 40
VER. SCALE IN FEET
4 0 4 8

WESTON
ROUTE 20 / WELLESLEY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	HSI-0036(022)X	56	71
PROJECT FILE NO.	608940		

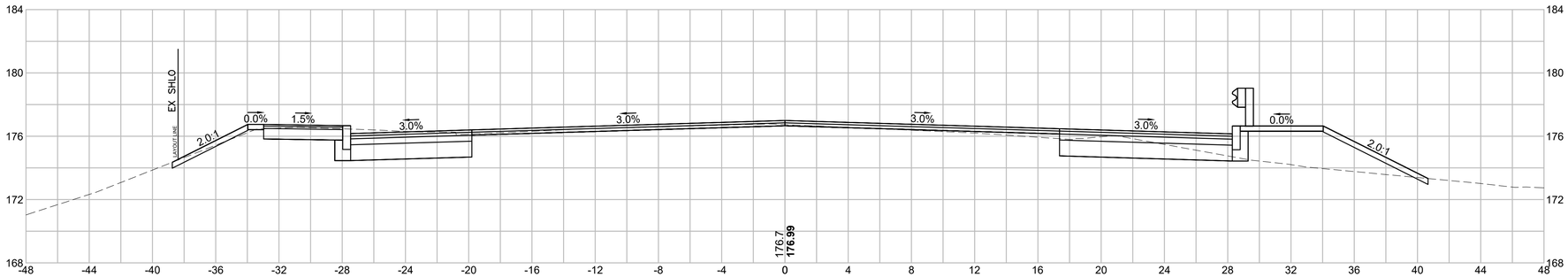
CROSS SECTIONS - ROUTE 20

103+50



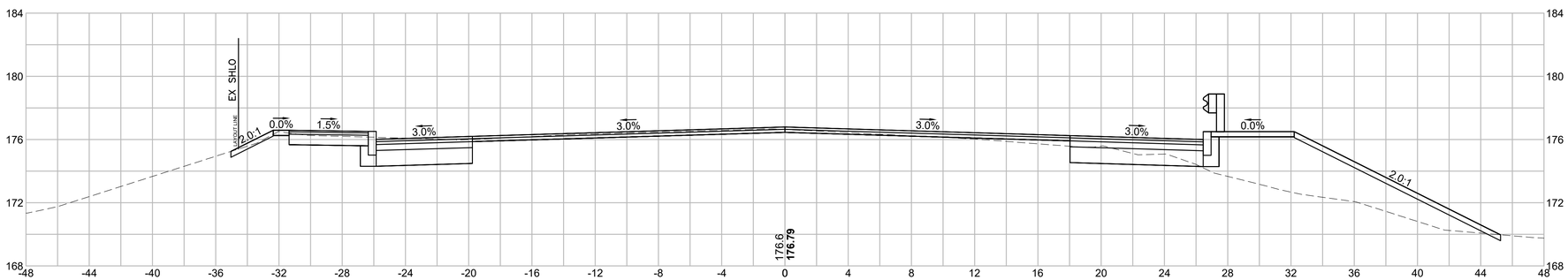
Material(s) at Station 103+50.00		
Material Name	Area (sf)	Volume (cy)
CUT - Rte 20 RT	10.5	19.6
FILL - Rte 20 RT	15.2	29.3
CUT - Rte 20 LT	19.4	35.8
FILL - Rte 20 LT	0.4	0.5

103+00



Material(s) at Station 103+00.00		
Material Name	Area (sf)	Volume (cy)
CUT - Rte 20 RT	10.7	15.7
FILL - Rte 20 RT	16.5	48.5
CUT - Rte 20 LT	19.2	32.0
FILL - Rte 20 LT	0.1	0.1

102+50



Material(s) at Station 102+50.00		
Material Name	Area (sf)	Volume (cy)
CUT - Rte 20 RT	6.2	12.3
FILL - Rte 20 RT	35.8	56.3
CUT - Rte 20 LT	15.3	27.5
FILL - Rte 20 LT	0.0	0.0

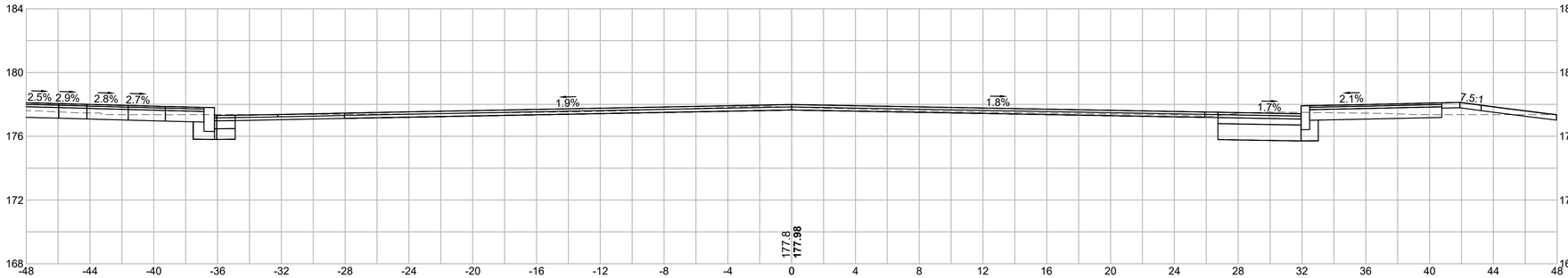
HOR. SCALE IN FEET
20 0 20 40
4 0 4 8
VER. SCALE IN FEET

WESTON
ROUTE 20 / WELLESLEY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	HSI-0036(022)X	57	71
PROJECT FILE NO.	608940		

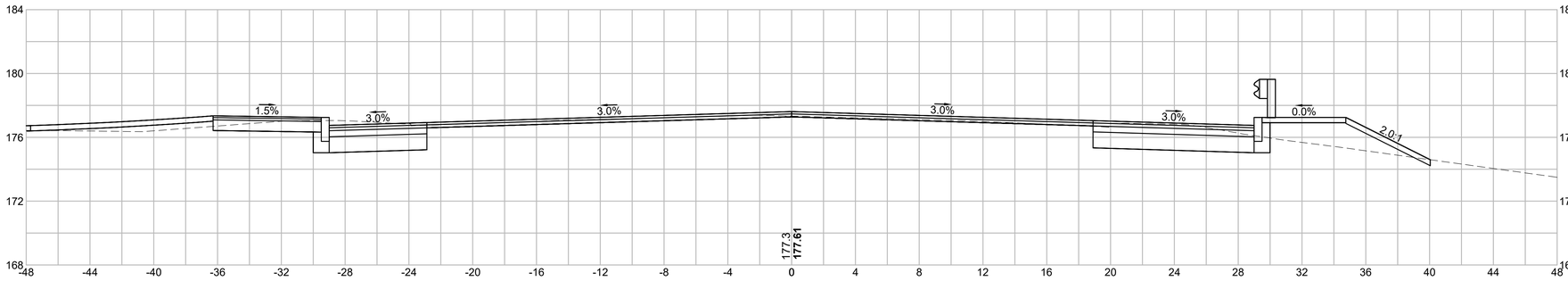
CROSS SECTIONS - ROUTE 20

105+00



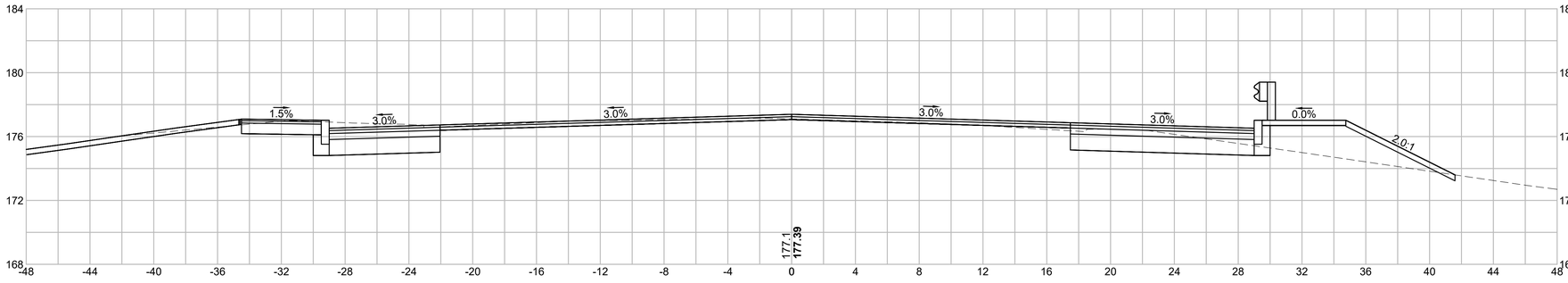
Material(s) at Station 105+00.00		
Material Name	Area (sf)	Volume (cy)
CUT - Rte 20 RT	13.9	27.8
FILL - Rte 20 RT	1.2	9.8
CUT - Rte 20 LT	8.0	25.8
FILL - Rte 20 LT	0.6	0.6

104+50



Material(s) at Station 104+50.00		
Material Name	Area (sf)	Volume (cy)
CUT - Rte 20 RT	16.1	27.7
FILL - Rte 20 RT	9.4	21.8
CUT - Rte 20 LT	19.8	39.7
FILL - Rte 20 LT	0.0	0.0

104+00



Material(s) at Station 104+00.00		
Material Name	Area (sf)	Volume (cy)
CUT - Rte 20 RT	13.8	22.5
FILL - Rte 20 RT	14.2	27.3
CUT - Rte 20 LT	23.1	39.4
FILL - Rte 20 LT	0.0	0.4

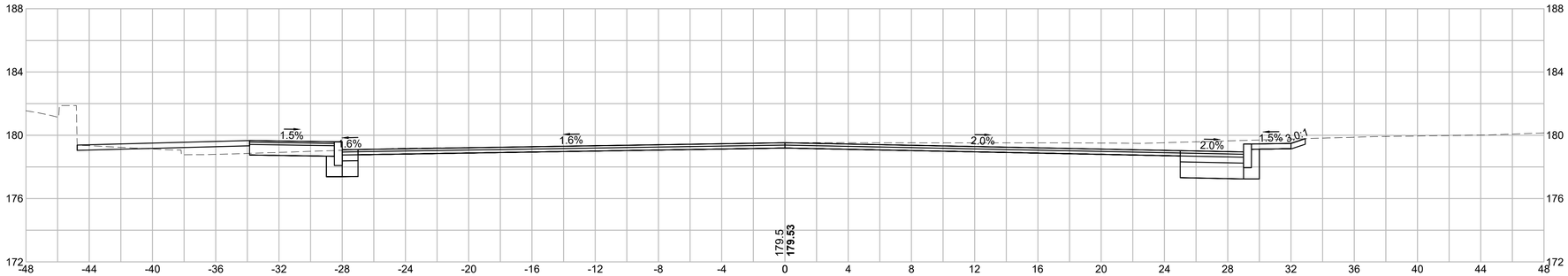
HOR. SCALE IN FEET
20 0 20 40
VER. SCALE IN FEET
4 0 4 8

WESTON
ROUTE 20 / WELLESLEY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	HSI-0036(022)X	58	71
PROJECT FILE NO.	608940		

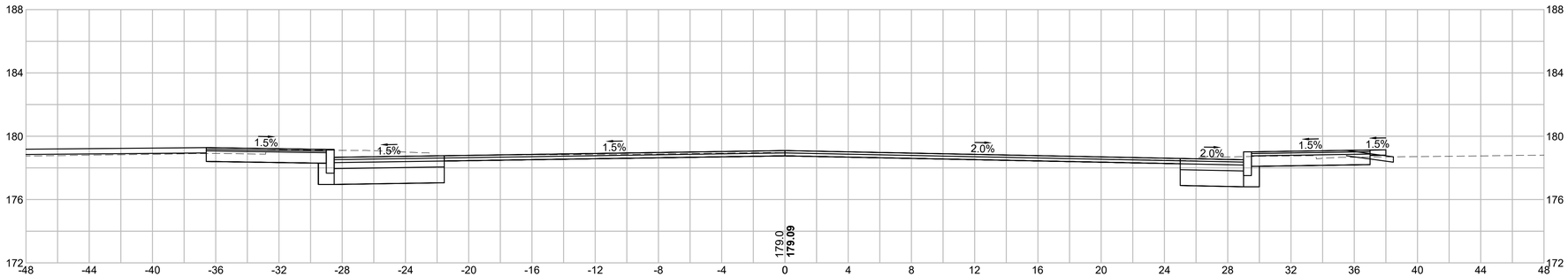
CROSS SECTIONS - ROUTE 20

106+50



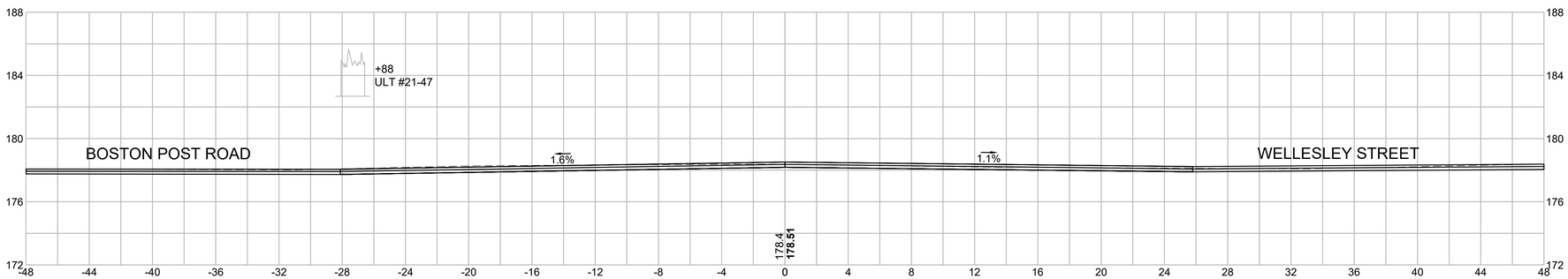
Material(s) at Station 106+50.00		
Material Name	Area (sf)	Volume (cy)
CUT - Rte 20 RT	13.1	24.0
FILL - Rte 20 RT	0.0	0.0
CUT - Rte 20 LT	4.9	23.6
FILL - Rte 20 LT	2.3	3.3

106+00



Material(s) at Station 106+00.00		
Material Name	Area (sf)	Volume (cy)
CUT - Rte 20 RT	12.8	11.9
FILL - Rte 20 RT	0.0	0.0
CUT - Rte 20 LT	20.6	19.1
FILL - Rte 20 LT	1.3	1.2

105+50



Material(s) at Station 105+50.00		
Material Name	Area (sf)	Volume (cy)
CUT - Rte 20 RT	0.0	12.9
FILL - Rte 20 RT	0.0	1.1
CUT - Rte 20 LT	0.0	7.4
FILL - Rte 20 LT	0.0	0.6

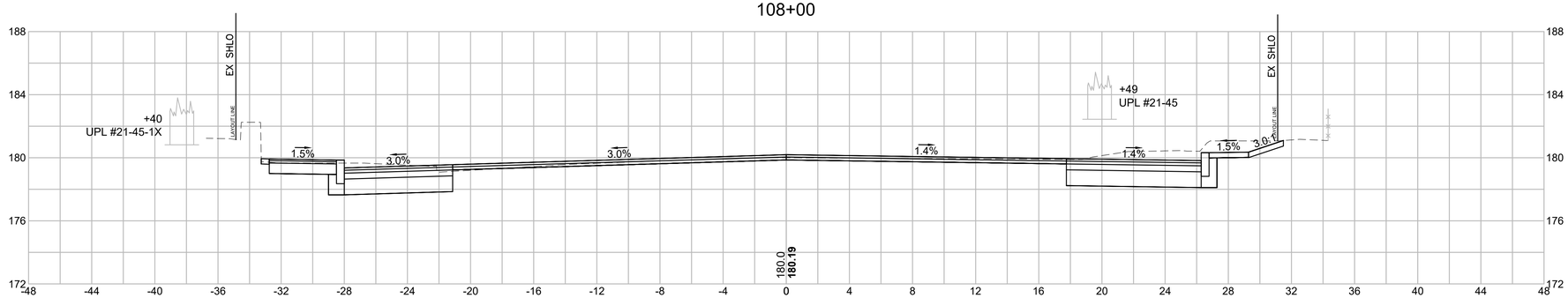
HOR. SCALE IN FEET
20 0 20 40
4 0 4 8
VER. SCALE IN FEET

WESTON
ROUTE 20 / WELLESLEY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	HSI-0036(022)X	59	71
PROJECT FILE NO.	608940		

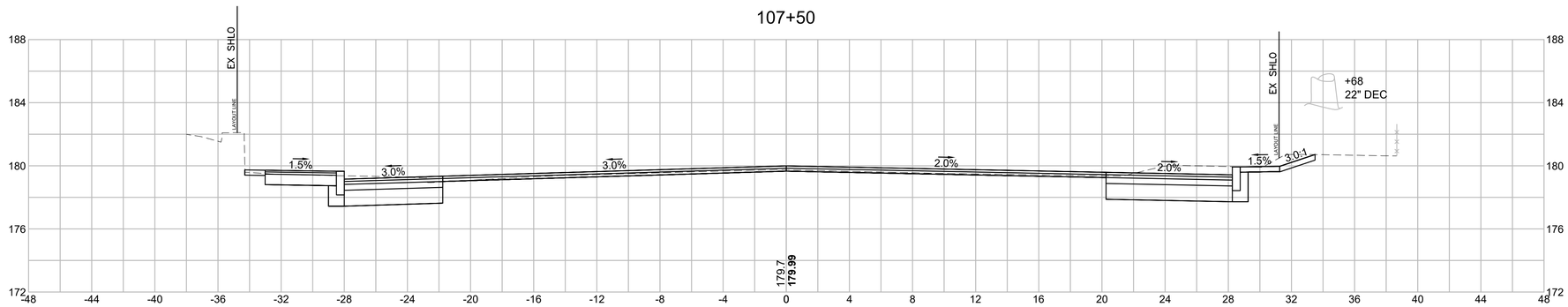
CROSS SECTIONS - ROUTE 20

108+00



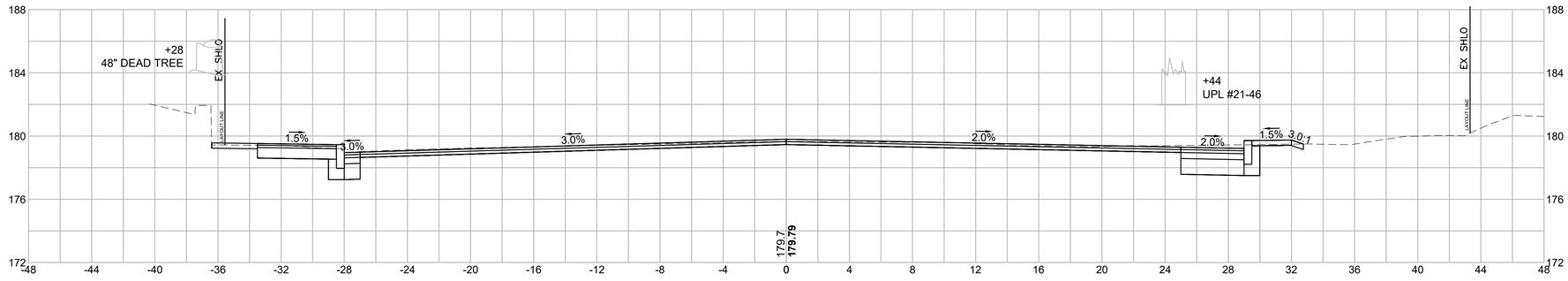
Material(s) at Station 108+00.00		
Material Name	Area (sf)	Volume (cy)
CUT - Rte 20 RT	22.2	37.7
FILL - Rte 20 RT	0.0	0.0
CUT - Rte 20 LT	16.8	29.9
FILL - Rte 20 LT	0.0	0.0

107+50



Material(s) at Station 107+50.00		
Material Name	Area (sf)	Volume (cy)
CUT - Rte 20 RT	18.6	26.1
FILL - Rte 20 RT	0.0	0.0
CUT - Rte 20 LT	15.5	21.6
FILL - Rte 20 LT	0.0	0.0

107+00



Material(s) at Station 107+00.00		
Material Name	Area (sf)	Volume (cy)
CUT - Rte 20 RT	9.6	21.0
FILL - Rte 20 RT	0.0	0.0
CUT - Rte 20 LT	7.8	11.8
FILL - Rte 20 LT	0.0	2.1

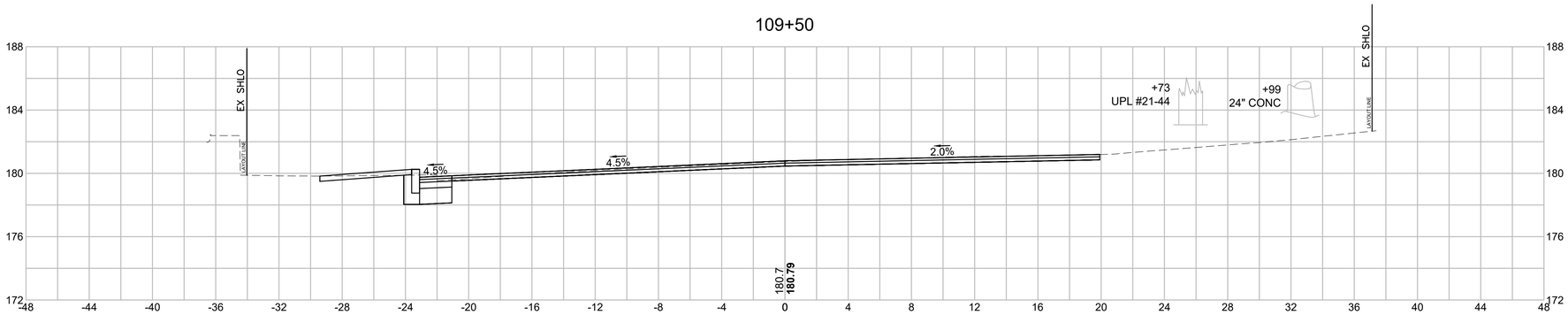
HOR. SCALE IN FEET
20 0 20 40
VER. SCALE IN FEET
4 0 4 8

WESTON
ROUTE 20 / WELLESLEY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	HSI-0036(022)X	60	71
PROJECT FILE NO.	608940		

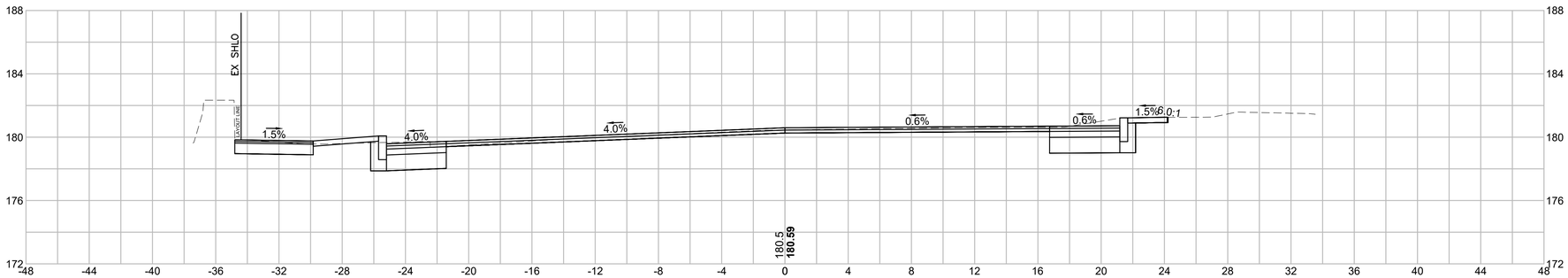
CROSS SECTIONS - ROUTE 20

109+50



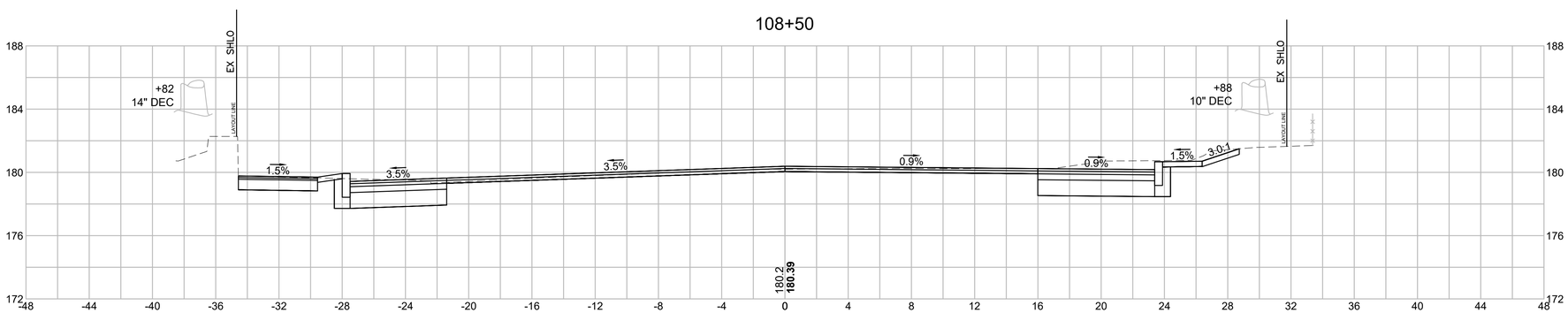
Material(s) at Station 109+50.00		
Material Name	Area (sf)	Volume (cy)
CUT - Rte 20 RT	0.0	10.0
FILL - Rte 20 RT	0.0	0.0
CUT - Rte 20 LT	6.1	16.9
FILL - Rte 20 LT	0.0	0.0

109+00



Material(s) at Station 109+00.00		
Material Name	Area (sf)	Volume (cy)
CUT - Rte 20 RT	10.8	26.7
FILL - Rte 20 RT	0.0	0.0
CUT - Rte 20 LT	12.1	26.6
FILL - Rte 20 LT	0.0	0.0

108+50



Material(s) at Station 108+50.00		
Material Name	Area (sf)	Volume (cy)
CUT - Rte 20 RT	18.0	37.2
FILL - Rte 20 RT	0.0	0.0
CUT - Rte 20 LT	16.6	30.9
FILL - Rte 20 LT	0.0	0.0

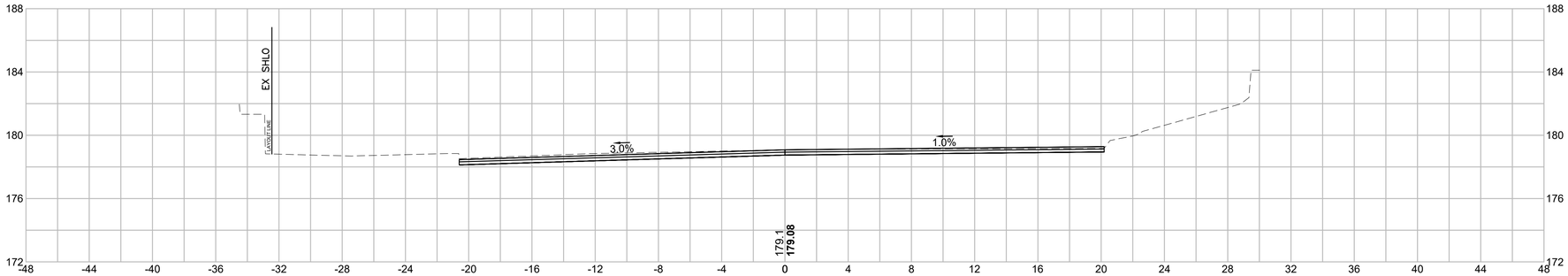
HOR. SCALE IN FEET
20 0 20 40
VER. SCALE IN FEET
4 0 4 8

WESTON
ROUTE 20 / WELLESLEY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	HSI-0036(022)X	61	71
PROJECT FILE NO.	608940		

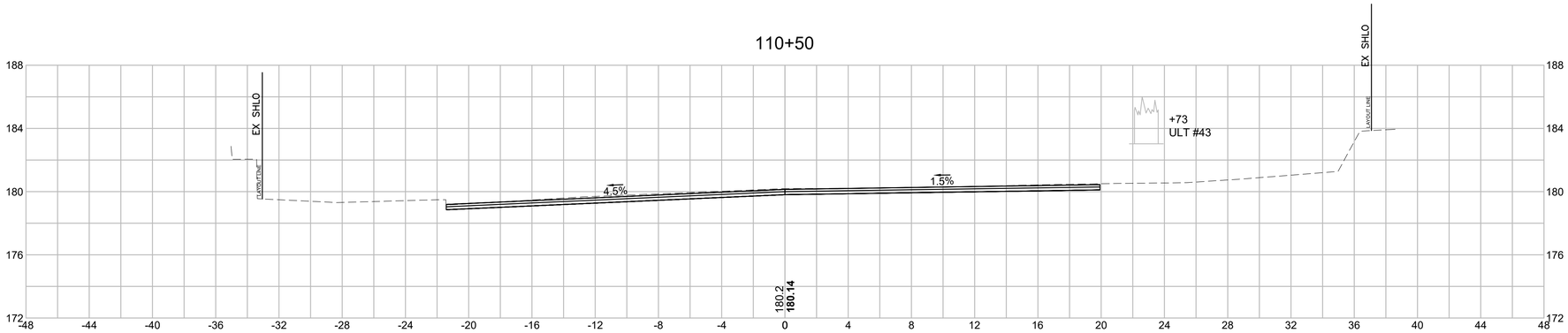
CROSS SECTIONS - ROUTE 20

111+00



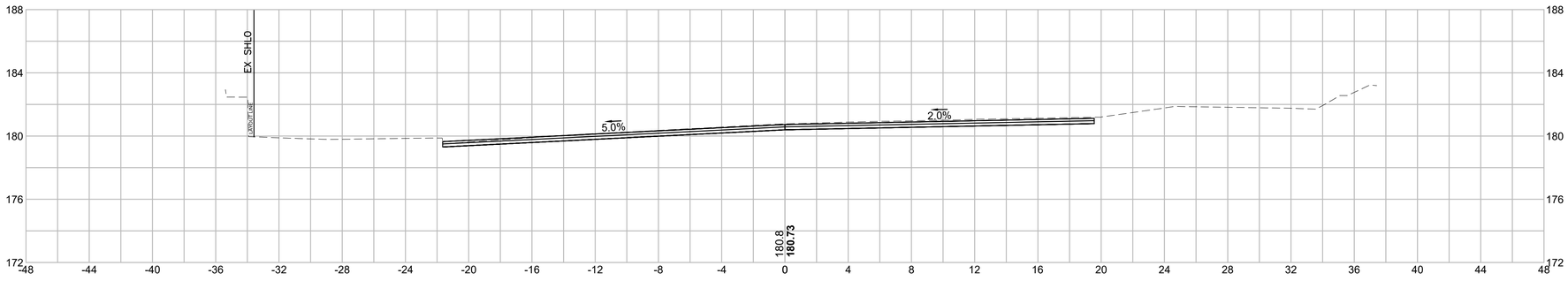
Material(s) at Station 111+00.00		
Material Name	Area (sf)	Volume (cy)
CUT - Rte 20 RT	0.0	0.0
FILL - Rte 20 RT	0.0	0.0
CUT - Rte 20 LT	0.0	0.0
FILL - Rte 20 LT	0.0	0.0

110+50



Material(s) at Station 110+50.00		
Material Name	Area (sf)	Volume (cy)
CUT - Rte 20 RT	0.0	0.0
FILL - Rte 20 RT	0.0	0.0
CUT - Rte 20 LT	0.0	0.0
FILL - Rte 20 LT	0.0	0.0

110+00



Material(s) at Station 110+00.00		
Material Name	Area (sf)	Volume (cy)
CUT - Rte 20 RT	0.0	0.0
FILL - Rte 20 RT	0.0	0.0
CUT - Rte 20 LT	0.0	5.7
FILL - Rte 20 LT	0.0	0.0

HOR. SCALE IN FEET
20 0 20 40
4 0 4 8
VER. SCALE IN FEET

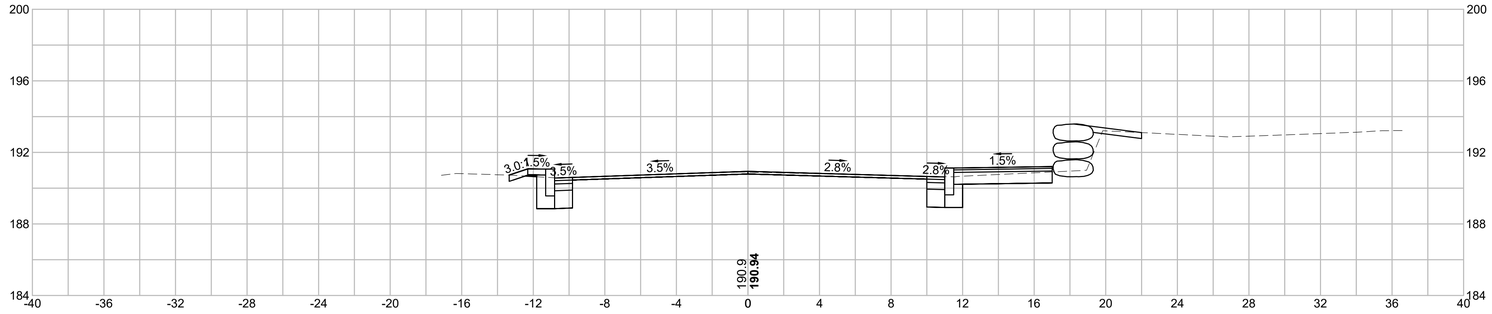
WESTON
ROUTE 20 / WELLESLEY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	HSI-0036(022)X	62	71
PROJECT FILE NO.	608940		

CROSS SECTIONS - WELLESLEY STREET

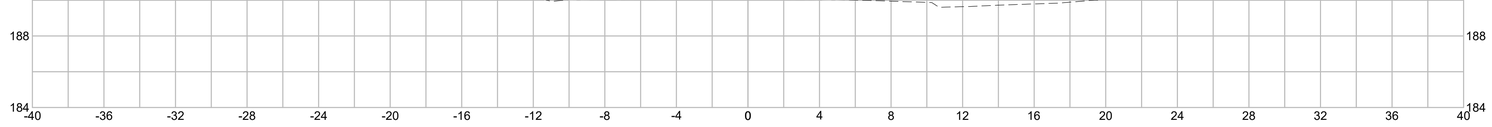
14360_HD(XSEC).DWG Plotted on 30-Jan-2026 2:17 PM

19+00



Material(s) at Station 19+00.00		
Material Name	Area (sf)	Volume (cy)
CUT	9.7	9.0
FILL	0.0	0.0

18+50



HOR. SCALE IN FEET
20 0 20 40
4 0 4 8
VER. SCALE IN FEET

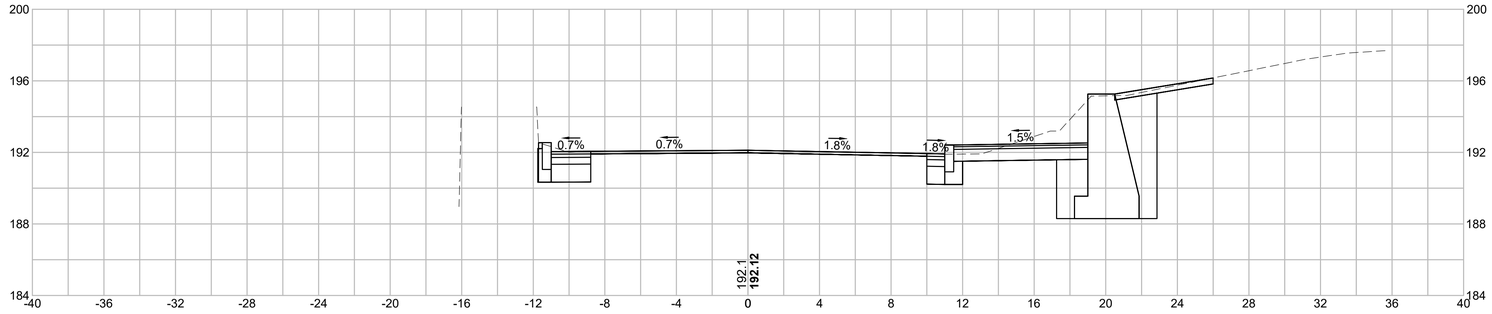
WESTON
ROUTE 20 / WELLESLEY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	HSI-0036(022)X	63	71
PROJECT FILE NO.	608940		

CROSS SECTIONS - WELLESLEY STREET

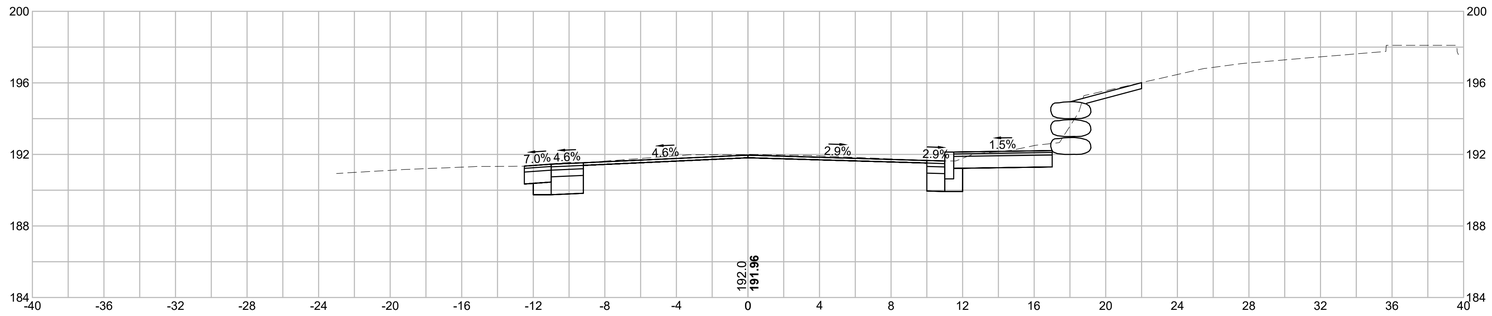
14360_HD(XSEC).DWG Plotted on 30-Jan-2026 2:18 PM

20+00

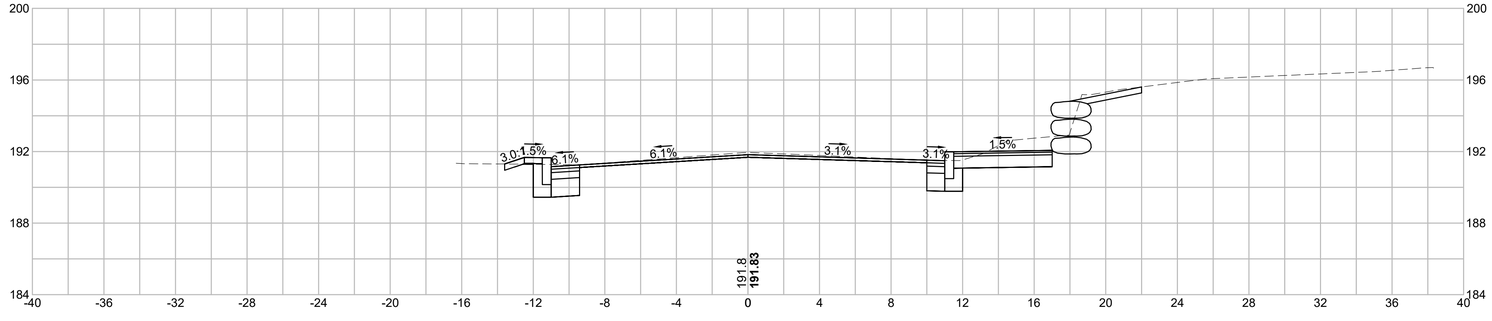


Material(s) at Station 20+00.00		
Material Name	Area (sf)	Volume (cy)
CUT	41.1	33.5
FILL	0.0	0.0

19+67



19+50



Material(s) at Station 19+50.00		
Material Name	Area (sf)	Volume (cy)
CUT	14.4	22.4
FILL	0.0	0.1

HOR. SCALE IN FEET
20 0 20 40
4 0 4 8
VER. SCALE IN FEET

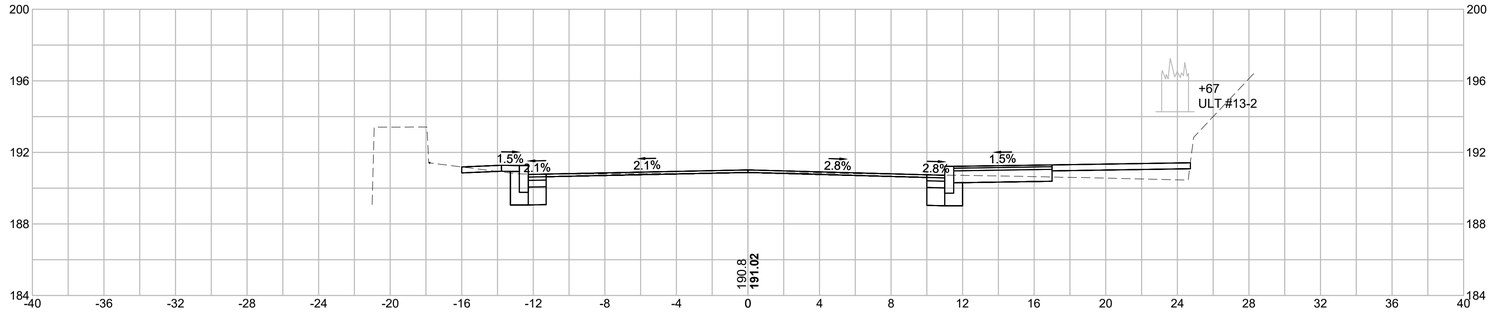
WESTON
ROUTE 20 / WELLESLEY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	HSI-0036(022)X	64	71
PROJECT FILE NO.	608940		

CROSS SECTIONS - WELLESLEY STREET

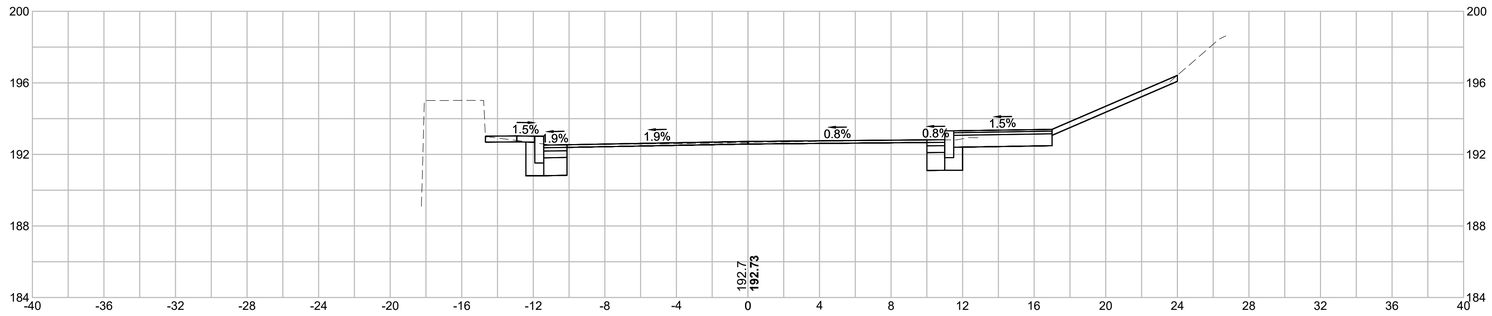
14360_HD(XSEC).DWG Plotted on 30-Jan-2026 2:18 PM

21+50



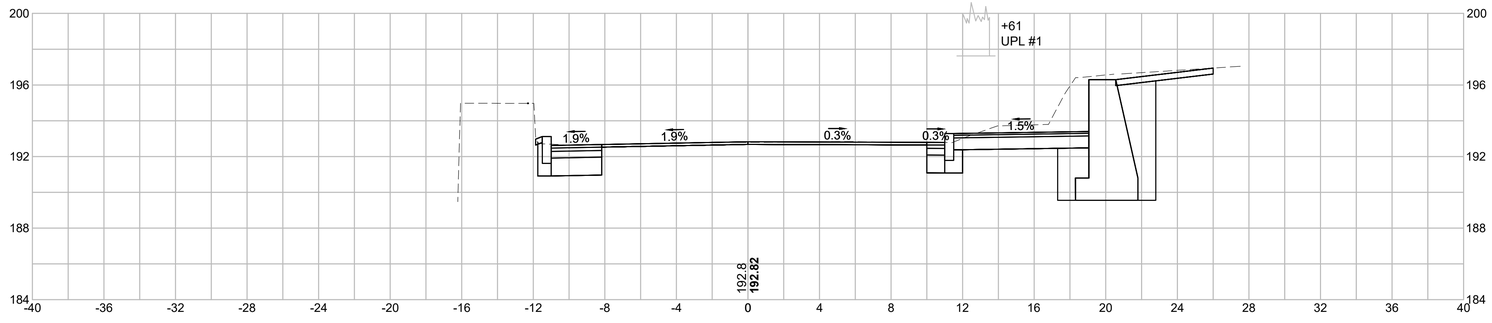
Material(s) at Station 21+50.00		
Material Name	Area (sf)	Volume (cy)
CUT	8.8	15.9
FILL	3.8	3.5

21+00



Material(s) at Station 21+00.00		
Material Name	Area (sf)	Volume (cy)
CUT	8.4	47.2
FILL	0.0	0.0

20+50



Material(s) at Station 20+50.00		
Material Name	Area (sf)	Volume (cy)
CUT	42.5	77.4
FILL	0.0	0.0

HOR. SCALE IN FEET
20 0 20 40
4 0 4 8
VER. SCALE IN FEET

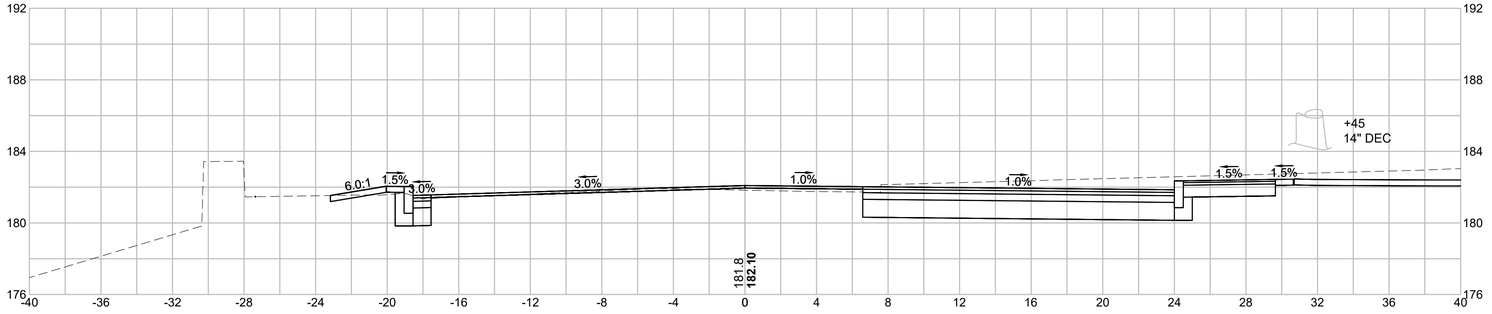
WESTON
ROUTE 20 / WELLESLEY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	HSI-0036(022)X	65	71
PROJECT FILE NO.	608940		

CROSS SECTIONS - WELLESLEY STREET

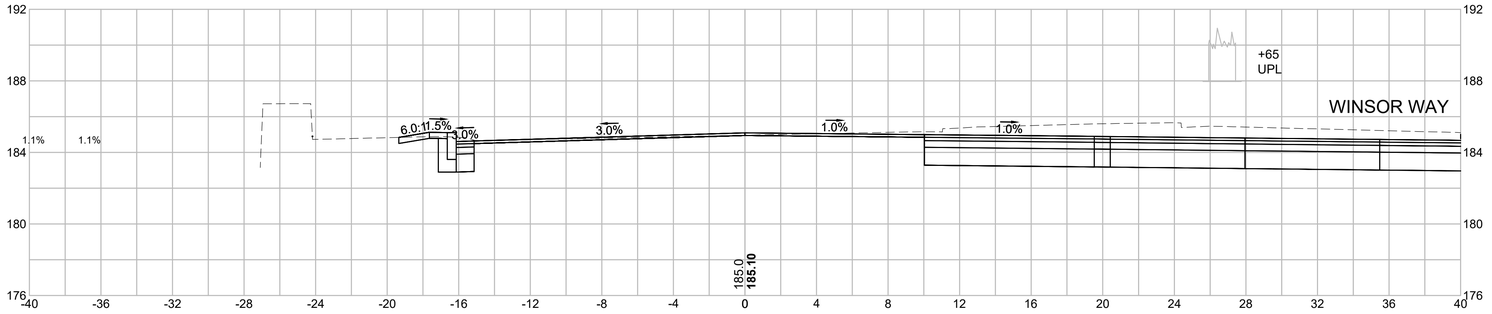
14360_HD(XSEC).DWG Plotted on 30-Jan-2026 2:18 PM

23+00



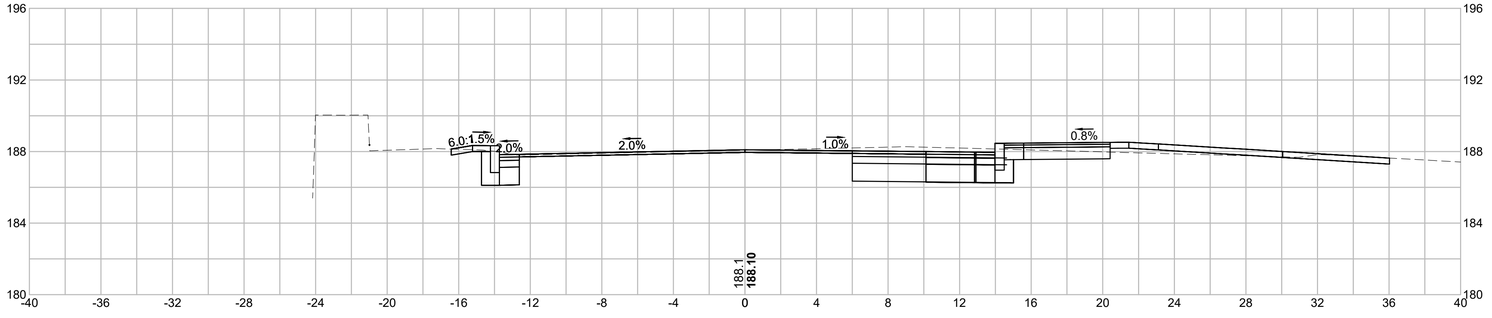
Material(s) at Station 23+00.00		
Material Name	Area (sf)	Volume (cy)
CUT	47.8	111.1
FILL	0.1	0.1

22+50



Material(s) at Station 22+50.00		
Material Name	Area (sf)	Volume (cy)
CUT	72.1	86.4
FILL	0.0	1.1

22+00



Material(s) at Station 22+00.00		
Material Name	Area (sf)	Volume (cy)
CUT	21.2	27.7
FILL	1.2	4.6

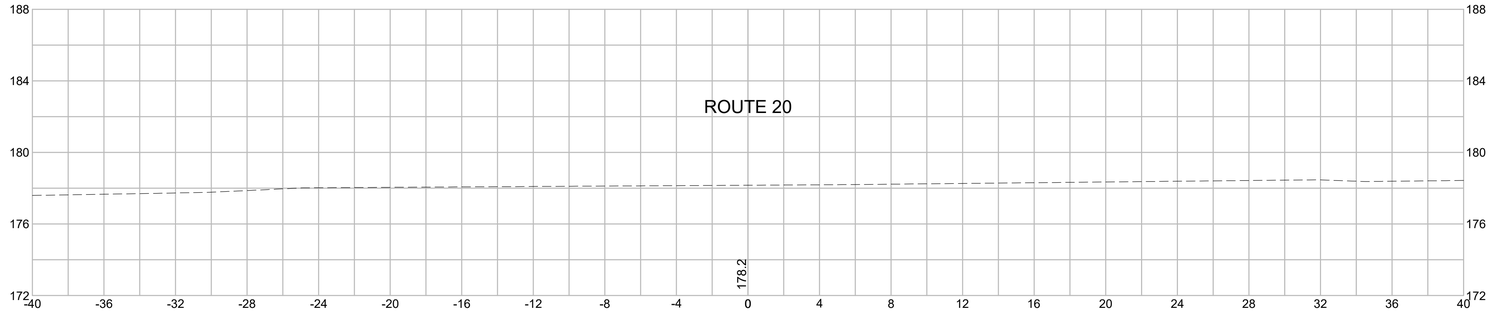
HOR. SCALE IN FEET
20 0 20 40
4 0 4 8
VER. SCALE IN FEET

WESTON
ROUTE 20 / WELLESLEY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	HSI-0036(022)X	66	71
PROJECT FILE NO.	608940		

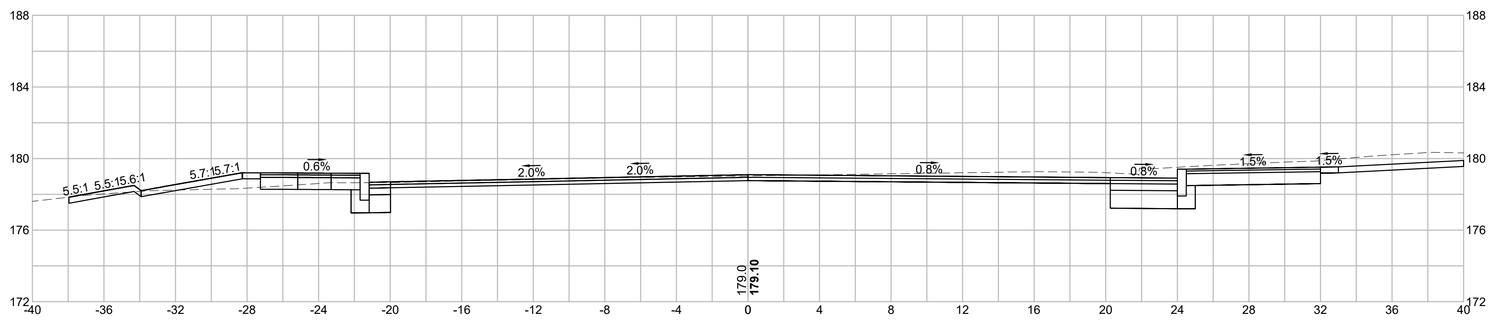
CROSS SECTIONS - WELLESLEY STREET

24+00



Material(s) at Station 24+00.00		
Material Name	Area (sf)	Volume (cy)
CUT	0.0	22.8
FILL	0.0	1.4

23+50



Material(s) at Station 23+50.00		
Material Name	Area (sf)	Volume (cy)
CUT	24.6	67.0
FILL	1.5	1.5

HOR. SCALE IN FEET
20 0 20 40
VER. SCALE IN FEET
4 0 4 8

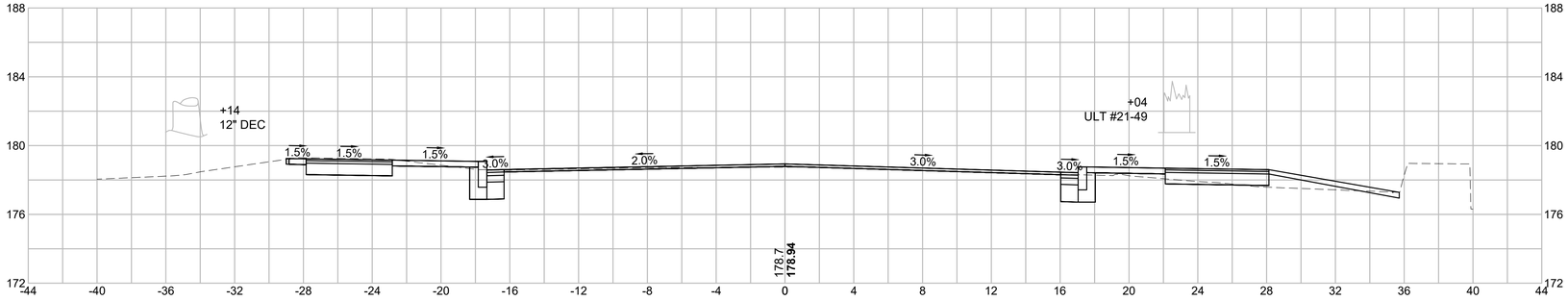
WESTON
ROUTE 20 / WELLESLEY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	HSI-0036(022)X	67	71
PROJECT FILE NO.	608940		

CROSS SECTIONS - BOSTON POST ROAD

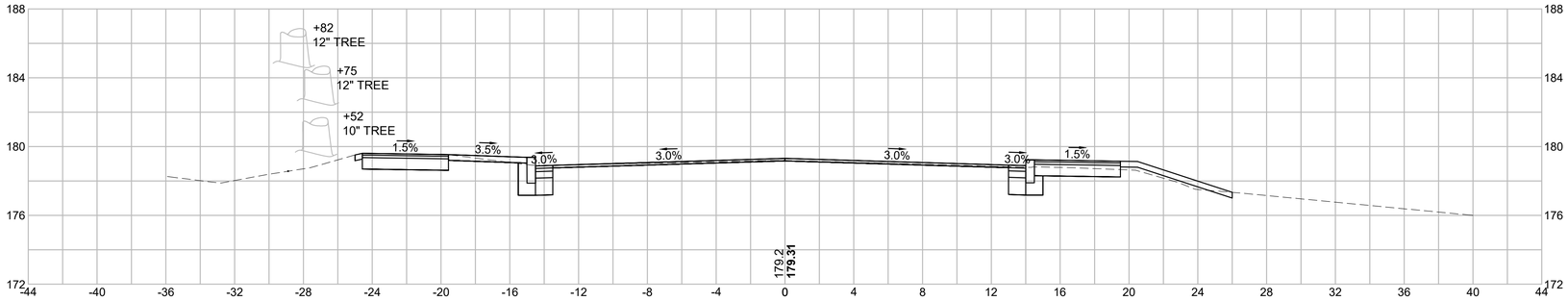
14360_HD(XSEC).DWG Plotted on 30-Jan-2026 2:19 PM

14+00



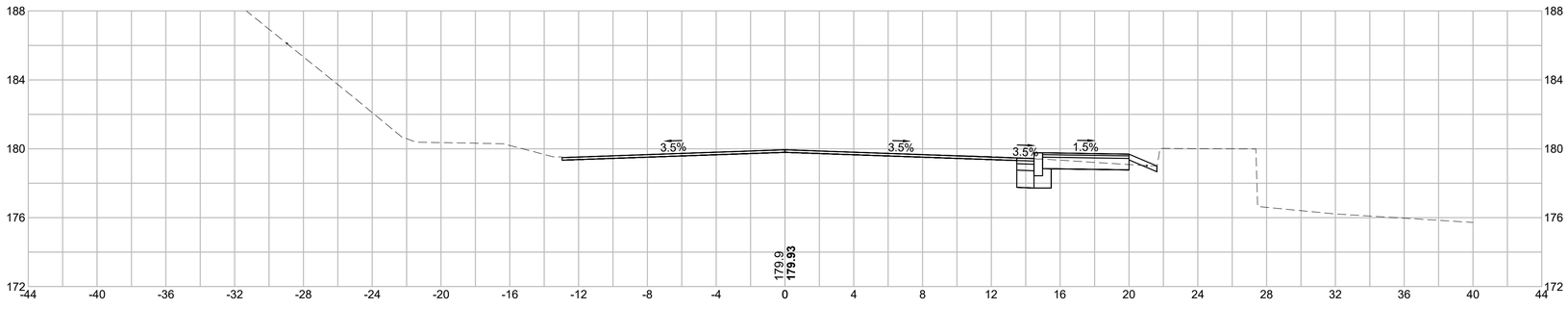
Material(s) at Station 14+00.00		
Material Name	Area (sf)	Volume (cy)
CUT - Boston Post Rd RT	4.1	9.2
FILL - Boston Post Rd RT	2.1	2.0
CUT - Boston Post Rd LT	9.5	17.1
FILL - Boston Post Rd LT	0.0	0.0

13+50



Material(s) at Station 13+50.00		
Material Name	Area (sf)	Volume (cy)
CUT - Boston Post Rd RT	5.8	10.3
FILL - Boston Post Rd RT	0.0	0.1
CUT - Boston Post Rd LT	8.9	8.3
FILL - Boston Post Rd LT	0.0	0.0

13+00



Material(s) at Station 13+00.00		
Material Name	Area (sf)	Volume (cy)
CUT - Boston Post Rd RT	5.3	0.0
FILL - Boston Post Rd RT	0.1	0.0
CUT - Boston Post Rd LT	0.0	0.0
FILL - Boston Post Rd LT	0.0	0.0

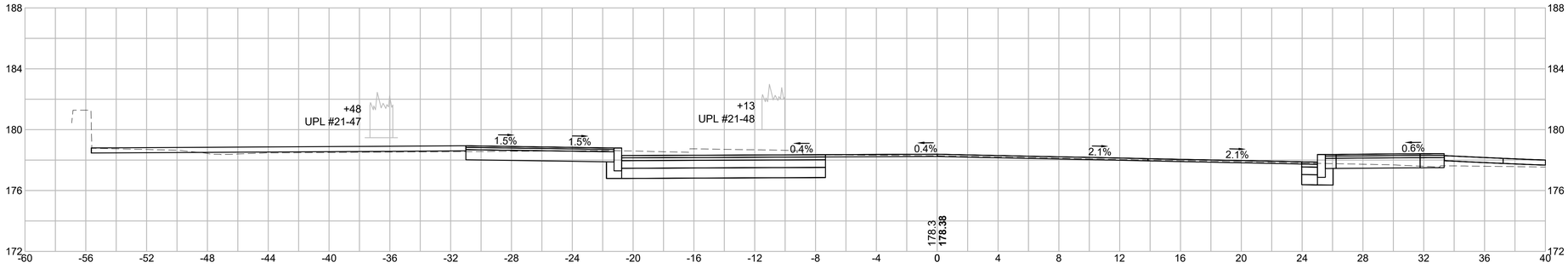
HOR. SCALE IN FEET
20 0 20 40
VER. SCALE IN FEET
4 0 4 8

WESTON
ROUTE 20 / WELLESLEY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	HSI-0036(022)X	68	71
PROJECT FILE NO.	608940		

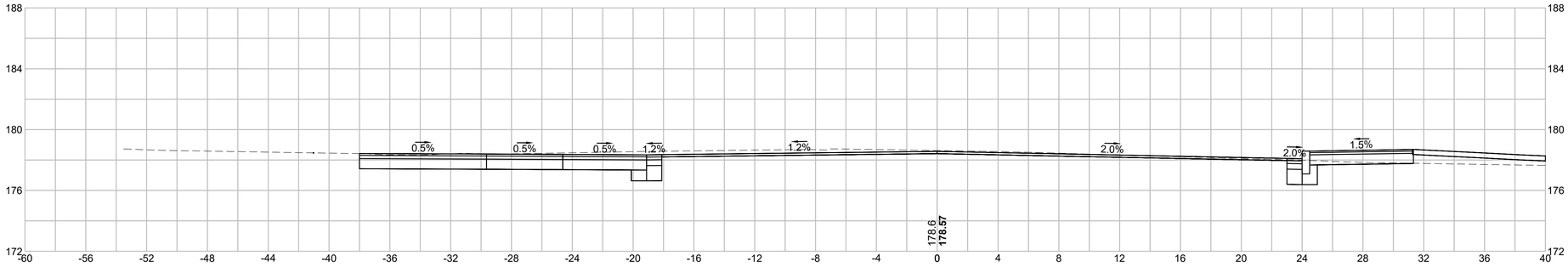
CROSS SECTIONS - BOSTON POST ROAD

15+00



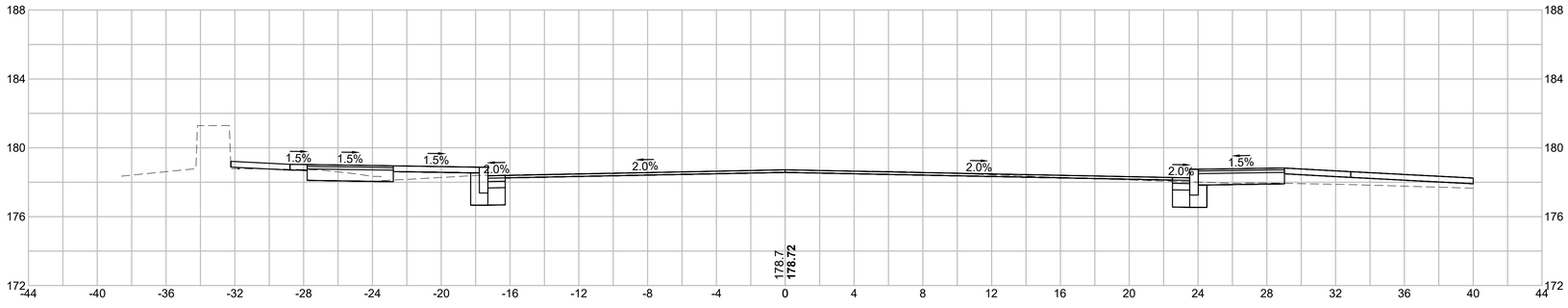
Material(s) at Station 15+00.00		
Material Name	Area (sf)	Volume (cy)
CUT - Boston Post Rd RT	2.9	2.4
FILL - Boston Post Rd RT	1.8	3.2
CUT - Boston Post Rd LT	32.9	25.8
FILL - Boston Post Rd LT	1.1	0.5

14+75



Material(s) at Station 14+75.00		
Material Name	Area (sf)	Volume (cy)
CUT - Boston Post Rd RT	2.4	2.1
FILL - Boston Post Rd RT	5.1	4.0
CUT - Boston Post Rd LT	22.8	13.2
FILL - Boston Post Rd LT	0.0	0.7

14+50



Material(s) at Station 14+50.00		
Material Name	Area (sf)	Volume (cy)
CUT - Boston Post Rd RT	2.2	5.8
FILL - Boston Post Rd RT	3.6	5.3
CUT - Boston Post Rd LT	5.8	14.1
FILL - Boston Post Rd LT	1.6	1.5

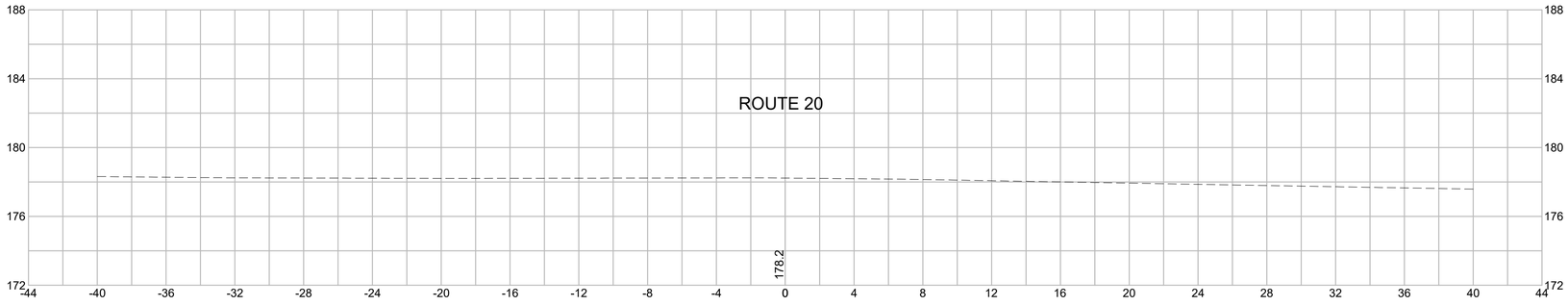
HOR. SCALE IN FEET
20 0 20 40
4 0 4 8
VER. SCALE IN FEET

WESTON
ROUTE 20 / WELLESLEY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	HSI-0036(022)X	69	71
PROJECT FILE NO.	608940		

CROSS SECTIONS - BOSTON POST ROAD

15+50



Material(s) at Station 15+50.00		
Material Name	Area (sf)	Volume (cy)
CUT - Boston Post Rd RT	0.0	2.6
FILL - Boston Post Rd RT	0.0	1.7
CUT - Boston Post Rd LT	0.0	30.4
FILL - Boston Post Rd LT	0.0	1.0

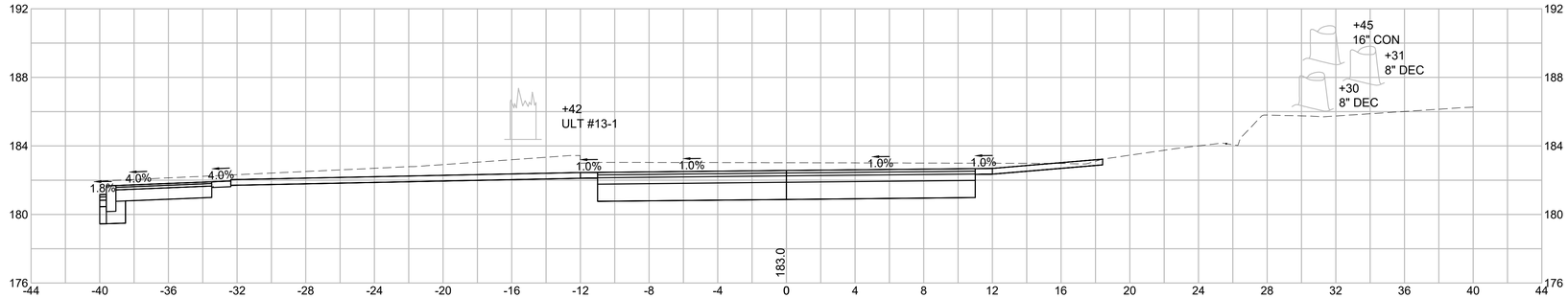
HOR. SCALE IN FEET
20 0 20 40
4 0 4 8
VER. SCALE IN FEET

WESTON
ROUTE 20 / WELLESLEY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	HSI-0036(022)X	70	71
PROJECT FILE NO.	608940		

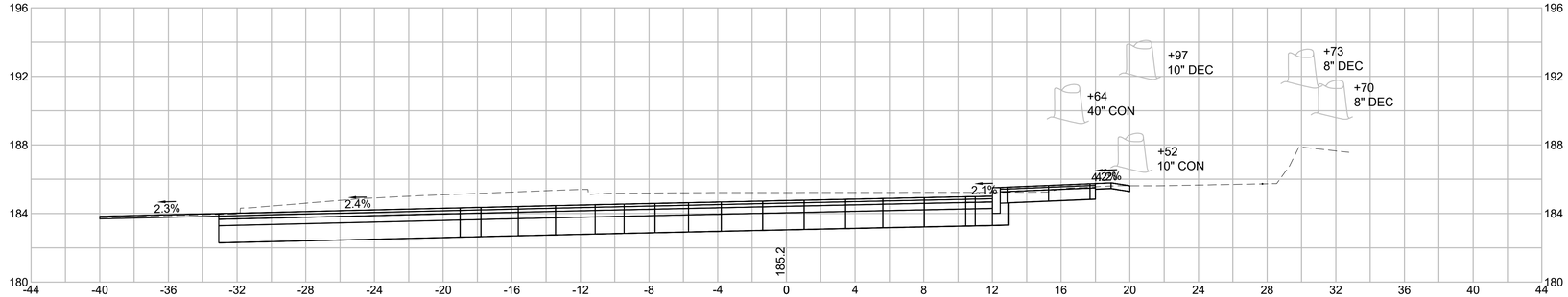
CROSS SECTIONS - WINSOR WAY

1+00



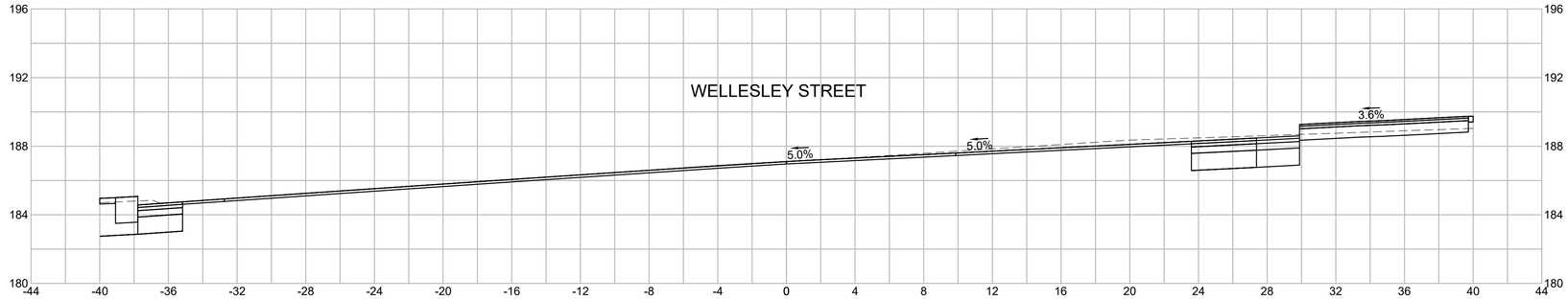
Material(s) at Station 1+00.00		
Material Name	Area (sf)	Volume (cy)
CUT	61.2	155.4
FILL	0.0	0.0

0+50



Material(s) at Station 0+50.00		
Material Name	Area (sf)	Volume (cy)
CUT	106.7	120.7
FILL	0.0	0.0

0+00



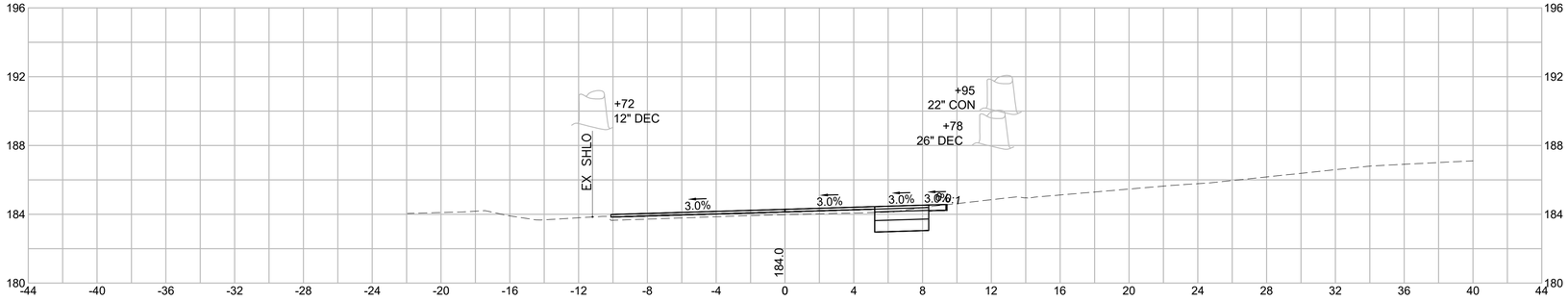
HOR. SCALE IN FEET
20 0 20 40
4 0 4 8
VER. SCALE IN FEET

WESTON
ROUTE 20 / WELLESLEY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	HSI-0036(022)X	71	71
PROJECT FILE NO.	608940		

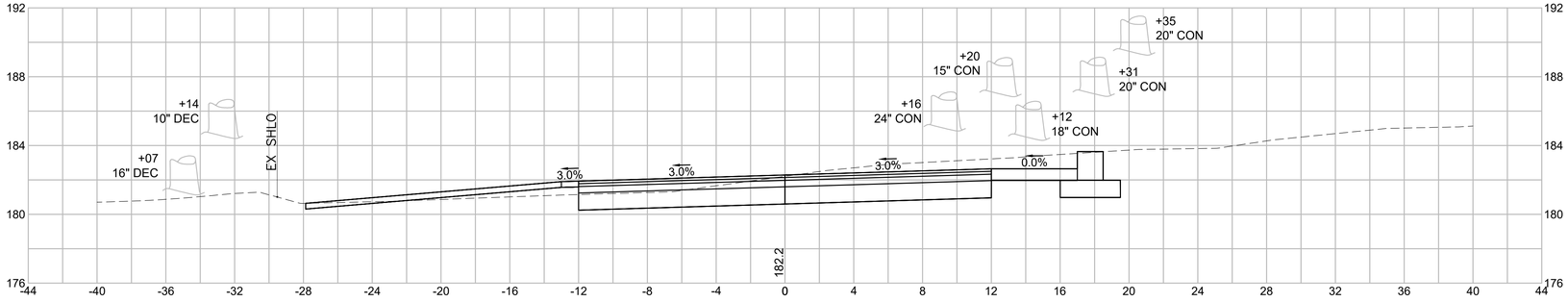
CROSS SECTIONS - WINSOR WAY

2+50



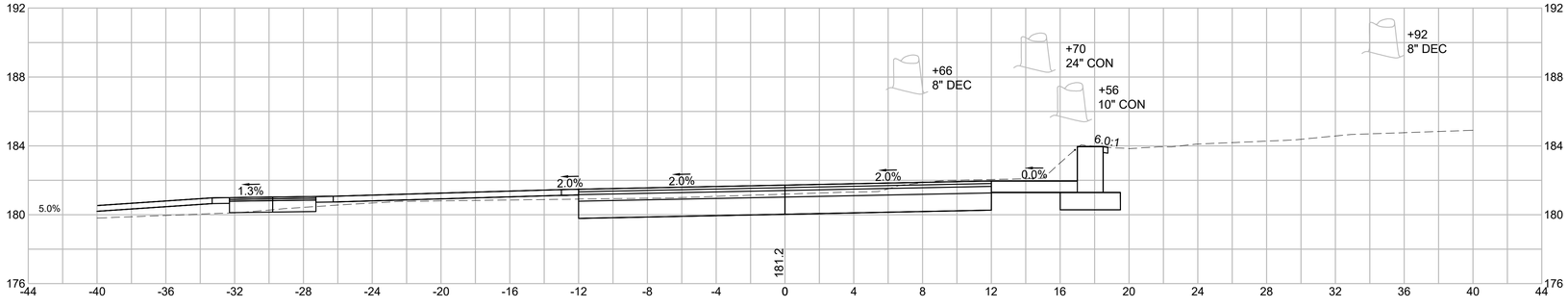
Material(s) at Station 2+50.00		
Material Name	Area (sf)	Volume (cy)
CUT	4.1	51.5
FILL	2.7	2.5

2+00



Material(s) at Station 2+00.00		
Material Name	Area (sf)	Volume (cy)
CUT	51.5	90.1
FILL	0.0	0.0

1+50



Material(s) at Station 1+50.00		
Material Name	Area (sf)	Volume (cy)
CUT	45.8	99.1
FILL	0.0	0.0

HOR. SCALE IN FEET
20 0 20 40
4 0 4 8
VER. SCALE IN FEET