### CITY OF MARLBOROUGH MEETING POSTING

Meeting Name:

**Conservation Commission** 

Date:

April 9, 2020 (Thursday)

Time:

7:00 PM

Location:

Will be conducted via remote participation

CITY CLERK'S OFFICE CITY OF MARLBOROUGH

2020 APR -3 P 3: 26

### Agenda Items to be addressed:

In accordance with the March 12, 2020 Executive Order issued by Governor Baker modifying certain requirements of the Open Meeting Law, the City of Marlborough Conservation Commission will hold a virtual meeting on Thursday, April 9, 2020 at 7:00 PM. The public may access the meeting by clicking on the link provided on the Conservation Commission website (Click the April 9,th meeting on the calendar, <a href="https://www.marlborough-ma.gov/.....or">https://www.marlborough-ma.gov/.....or</a> by dialing in using the referenced phone number and conference ID#. (Phone # and Conference ID# also found on Conservation Commission website. Any questions please call: 508-460-3768.

### Public Hearings:

7:00 Request for Determination of Applicability

19 Forest St. - Elan Walshe - Higher Ground Education

Proposes to convert a section of each existing parking area to a playground. The parking conversion consists of placing soil with drainage and turn over the asphalt surface. Fencing and playground structures will be installed at each playground. Portions of the existing building and the parking areas lie within the 100 ft. wetland buffer.

7:15 Notice of Intent - Continuation

Poirier Dr. - The City of Marlborough DPW

Proposes to add parking and drainage along Poirier Dr. (High School entrance) work is proposed near wetlands.

7:30 Notice of Intent

Rte. 20 reconstruction from Peters Ave. to Marlborough/Sudbury town line

Rte 20 reconstruction from Peters Ave. to Marlborough/Sudbury town line – Mass DOT is proposing to reconstruct Rte 20 from Peters Ave. to the Marlborough/Sudbury town line. The highway will replace deteriorated pavement structures, widen the travel way to safe and acceptable lane and shoulder widths, adding new sidewalks and provide upgrades to the existing drainage system. Several sections of this work are within the buffer zone to wetlands.

### Certificates of Compliance:

DEP 212-1035

41 Boivin Dr. (Lot 12)

### Discussion:

- Marlborough Public School Area of Holt's Grove for an educational rope course.
- Special Permit request under the Floodplain and Wetland Protection District 339 Boston Post Rd. East (former Magee Farm) Before the Zoning Board of Appeals on April 14, 2020.

Next Meeting - April 16th and May 7th, 2020

Adjournment

THE LISTING OF TOPICS THAT THE CHAIR REASONABLY ANTICIPATES WILL BE DISCUSSED AT THE MEETING IS NOT INTENDED AS A GUARANTEE OF THE TOPICS THAT WILL HAVE BEEN DISCUSSED. NOT ALL TOPICS LISTED MAY IN FACT BE DISCUSSED, AND OTHER TOPICS NOT LISTED MAY ALSO BE BROUGHT UP FOR DISCUSSION TO THE EXTENT PERMITTED BY LAW.

### PROJECT INFORMATION

PROJECT NAME:
OWNER:
PHONE:
PHONE:
PHONE:
ZONING:
JURISDICTION:
LOT SIZE:
ADDITIONAL IMPERVIOUS AREA:

HGE-MARLBOROUGH
LAKE WILLIAM MARSH, LLC
(508)-6350-4900
LITTLE DIVERSIFIED ARCHITECTURAL CONSULTING
(704)-525-6350
LJ (LIMITED INDUSTRAL)
CITY OF MAR BODONICH

### LAYOUT NOTES

- AL TRAFFIC CONTROL SIGNAGE, DEVICES, AND STRIPING TO CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.).
- B. ALL PAYING CUTS SHALL BE MADE BY SAW CUTS.
- C. EXISTING ELEVATIONS SHALL BE FIELD VERIFIED AND MATCHED.
- CONTRACTOR TO COORDINATE ANY CHANGES IN FIELD CONDITIONS THAT MAY REVISE THE DESIGN WITH DESIGNER OF RECORD PRIOR TO PROCEEDING.
- ALL DIMENSIONS ARE TO FACE OF CURB OR TO FINISHED FACE OF BUILDING UNLESS NOTED OTHERWISE.
- F. ALL RADII ON CURBS SHALL BE 5'-0" UNLESS NOTED OTHERWISE.
- ALL ACCESSIBLE PARKING SPACES SHALL DISPLAY APPROVED RESERVED PARKING SPACE SIGNAGE AS PRESCRIBED BY THE AMERICANS WITH DISABILITIES ACT (ADA), N.U.T.C.D., AND ANY ADDITIONAL STATE AND/OR LOCAL REQUIREMENTS. HEIGHT FROM FINISHED GRADE TO BOTTOM OF SIGN IN ANY LOCATION SHALL BE 84" MINIMUM.
- H. A MINIMUM OF  $18^{\circ}$  is to be maintained between all paved surfaces and tops of footings.

### LAYOUT LEGEND:

- 1. PROPOSED VERTICAL CURB SEE DETAIL 3/C5.00
- 2. CURB CUT LENGTH NOTED ON PLAN
- 4. PROPOSED DUMPSTER ENCLOSURE SEE DETAIL 4/C5.00
- 6. PROPOSED 4' TALL CHAIN LINK FENCING SEE DETAIL 6/C5.00
- 7. PROPOSED CURB CUT LENGTH AS NOTED ON PLAN, SEE DETAIL 8/C5.00
- 8. PROPOSED PLAYGROUND SEE DETAIL 11/C5.00
- 9. EXISTING CONCRETE PAD TO REMAIN
- 10, PROPOSED LANDSCAPE TIMBER EDGING BEHIND CURB SEE DETAIL 11/C5.00
- 11. PROPOSED MANUFACTURED PLAYGROUND EQUIPMENT ADA RAMP
- 12. PROPOSED RIP RAP APRON SEE DETAIL 12/C5.00

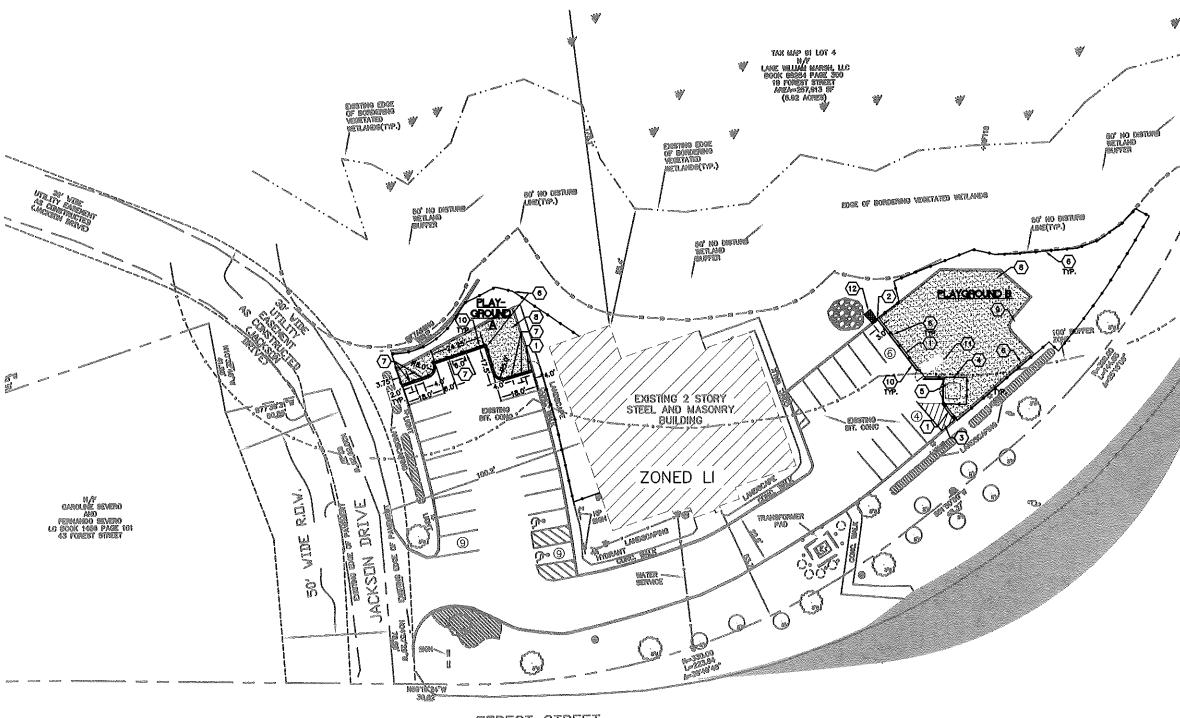
**XXXX** 

### PARKING SUMMARY:

1 SPACE PER EMPLOYEE = 23 SPACES 5 DROP OFF SPACES 28 SPACES REQUIRED (INCL 1 STD AND 1 VAN ACCESSIBLE SPACES)

PARKING PROVIDED = 28 SPACES (INCL. 1 STD AND 1 VAN ACCESSIBLE SPACES)

### PLAYOROUND AREA SUMMARY:



FOREST STREET ZONED LI

ZONED LI

SITE PLAN - WETLANDS IMPACT REVIEW



### LAYOUT NOTES

- ALL TRAFFIC CONTROL SKINAGE, DEVICES, AND STRIPFING TO CORFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MULTICLE).
- , ALL PANEIG CUTS SHALL BE MADE BY SAW CUTS.
- CONTINUCTOR TO COORDINATE ANY CHANGES IN FIELD CONDITIONS THAT MAY REVISE THE DESIGN WITH DESIGNER OF RECORD PRIOR TO PROCEEDING.

- A MINIMUM OF 18" IS TO BE MAINTAINED BETWEEN ALL PAVED SURFACES AND TOPS OF POOTMOS.

### LAYOUT LEGEND

- 1. PROPOSED VERTICAL CURS SEE DETAIL 3/CS.00
- 2. CURB CUT LENGTH NOTED ON PLAN
- I. PROPOSED 4" WHITE PAINTED STRIPSIG
- PROPOSED HEAVY DUTY CONCRETE PAYING SEE DETAIL 2/08.00
- PROPOSED CURB CUT -- LENGTH AS INCTED ON PLAN, SEE DETAIL 8/CS.00

- \$1. PROPOSED MANUFACTURED PLAYOROUND EQUIPMENT ADA RAMP
- 12. PROPOSED RIP RAP APRON SEE DETAIL 12/05.00

**1000** 

13.75

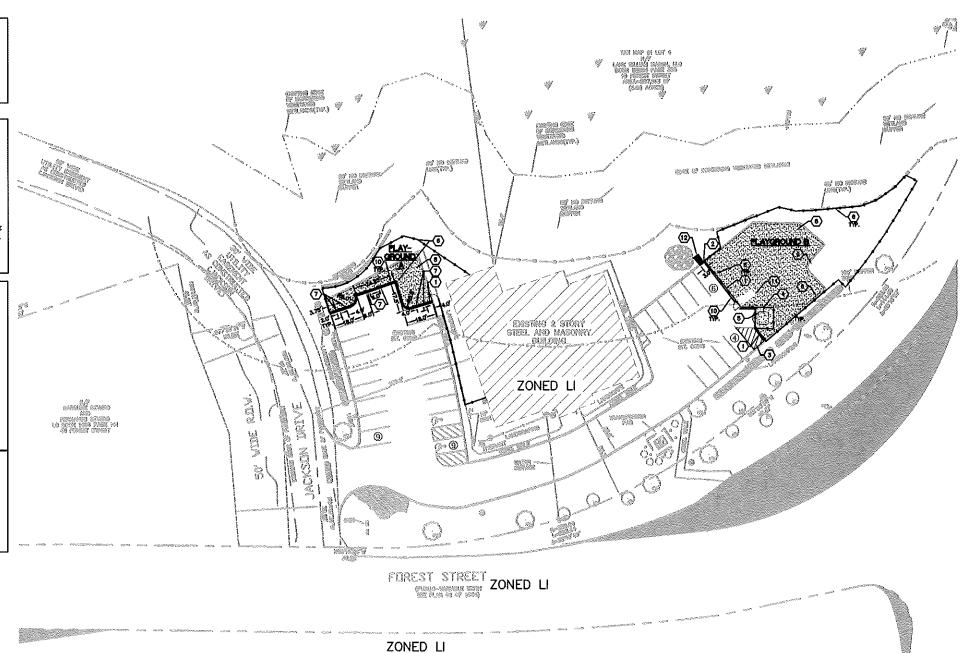
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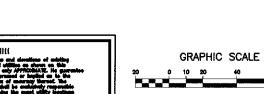
### PARKING BUANARY

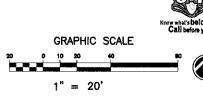
1 SPACE PER EMPLOYEE = 23 SPACES | 1 SPACES | 2 SPACES | 2 SPACES | 2 SPACES | 1 SPACES PANIONO PROVIDED = 28 SPACES (INCL 1 STD AND 1 WAN ACCESSIBLE SPACES)

### PLAYOROUND AREA SUAMARY

PLAYSROUND A = 2,400 SF PLAYSROUND B = 5,180 SF TOTAL 7,580 SF









\*\*\*.iltlissalla\*.com

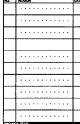
This density and the delays shown on the property of Link Discriptal Architectural Countries. The representation, regions we not of this density without their services recent to probabiled and any infringement will be religion to layer action.



Higher Ground

PERMIT SET

02/24/20

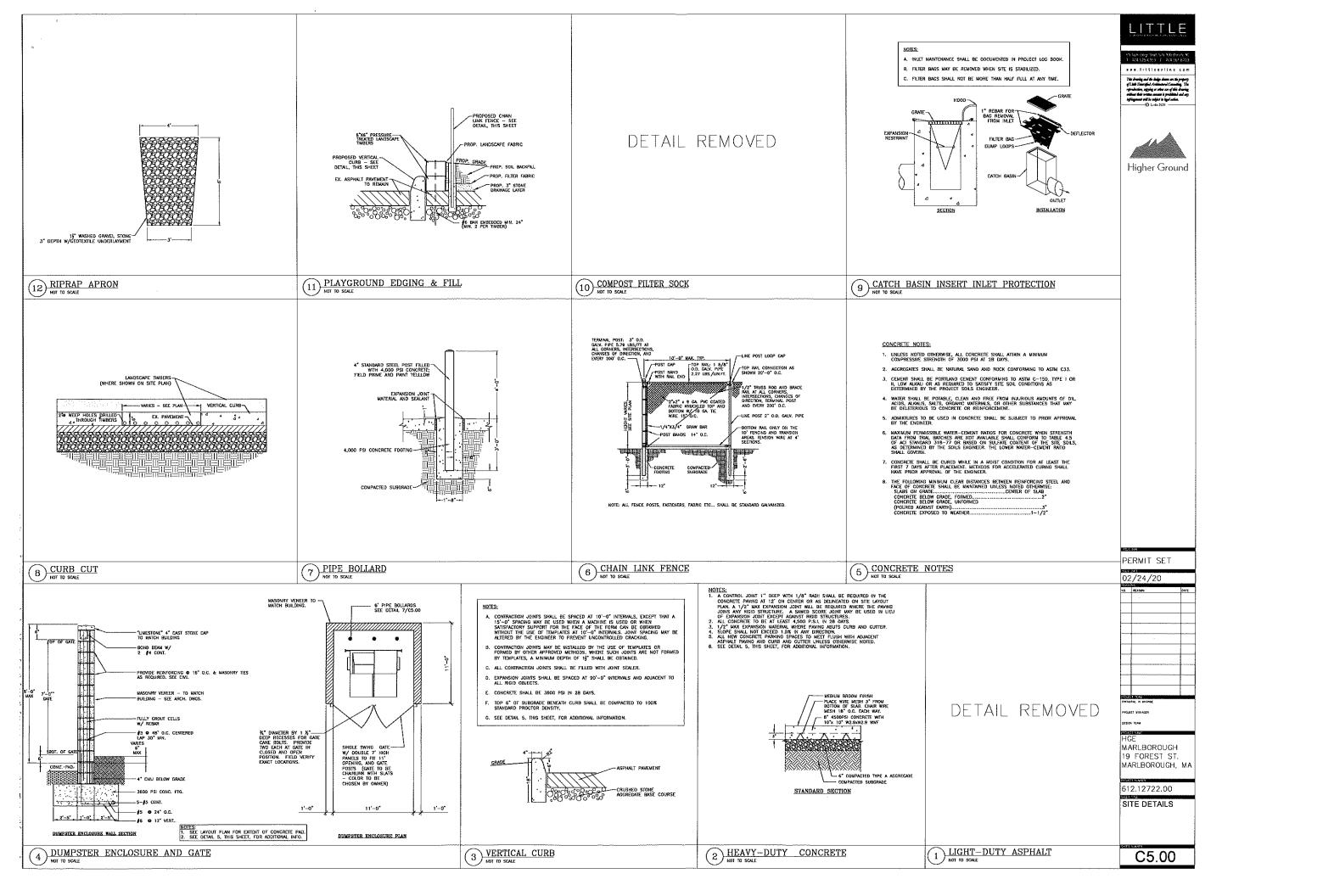


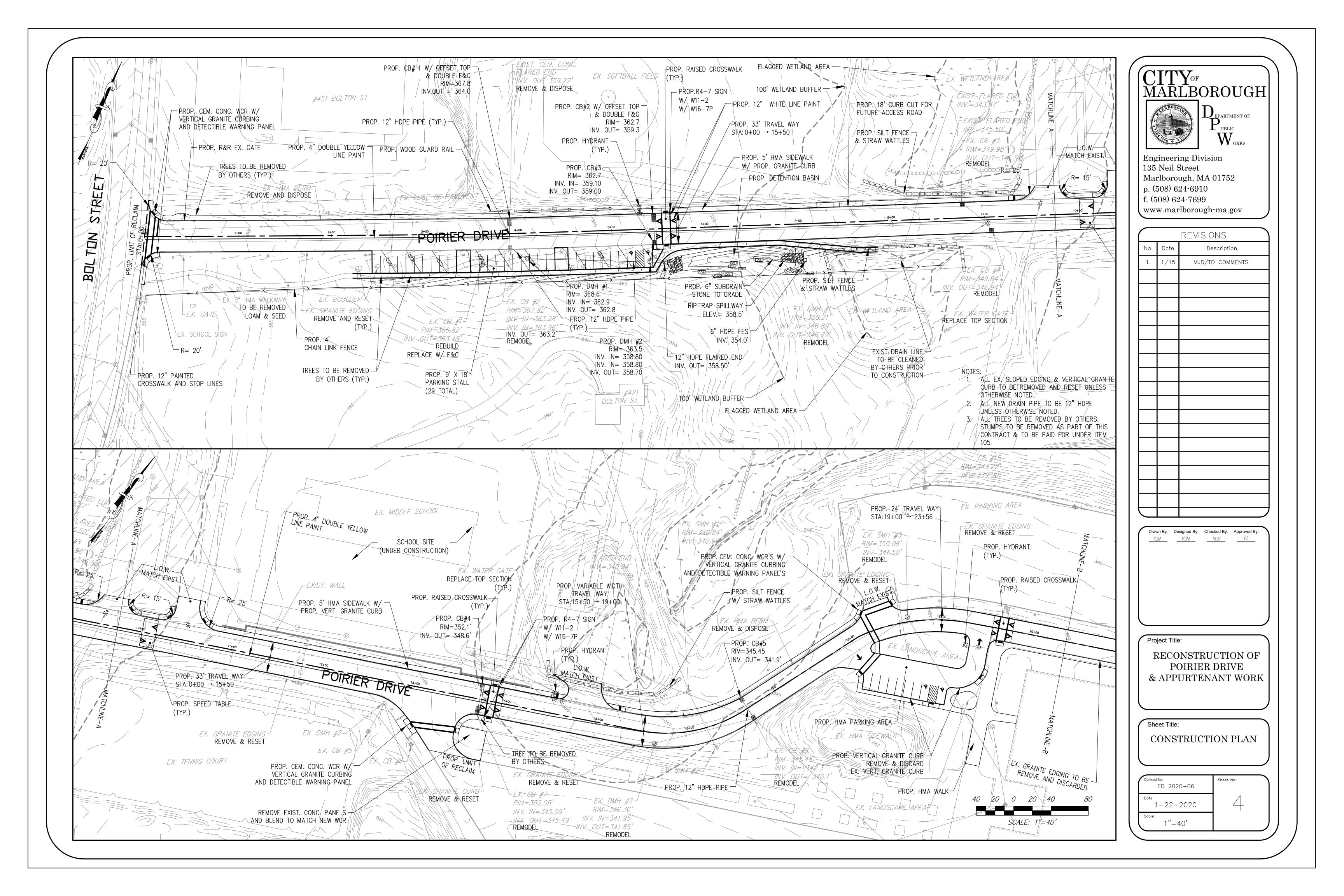
MARLBOROUGH 19 FOREST ST. MARLBOROUGH, MA

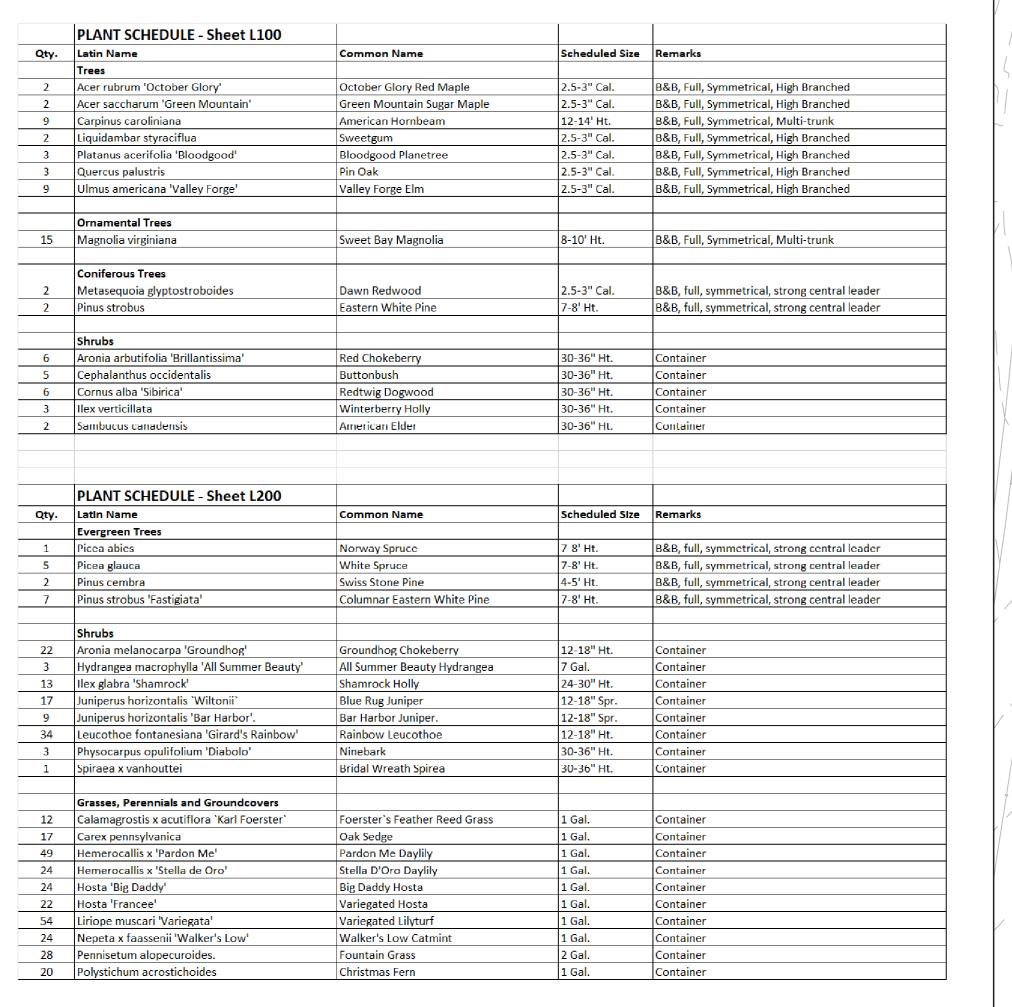
NOLECT NUMBER 612.12722.00

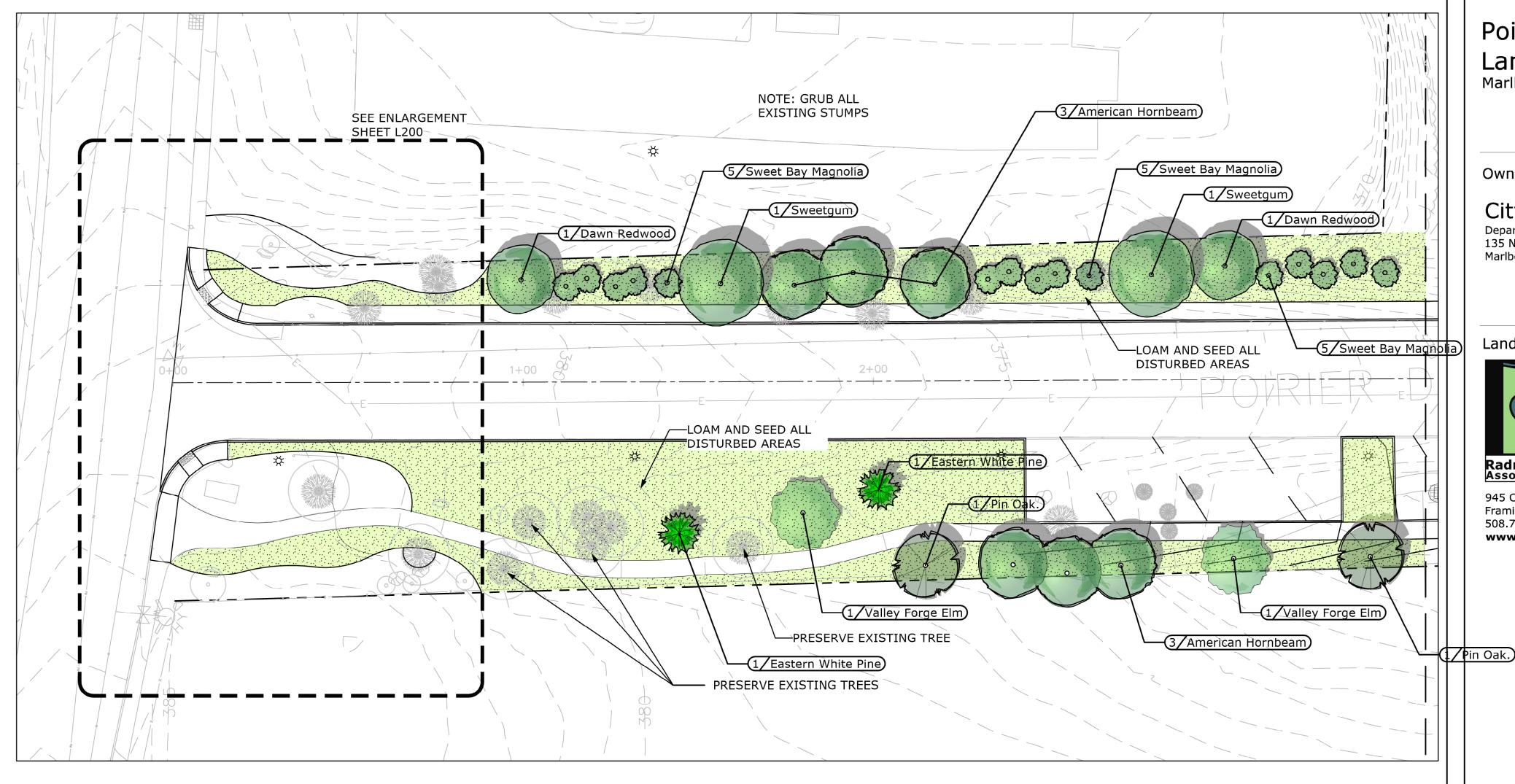
SITE PLAN

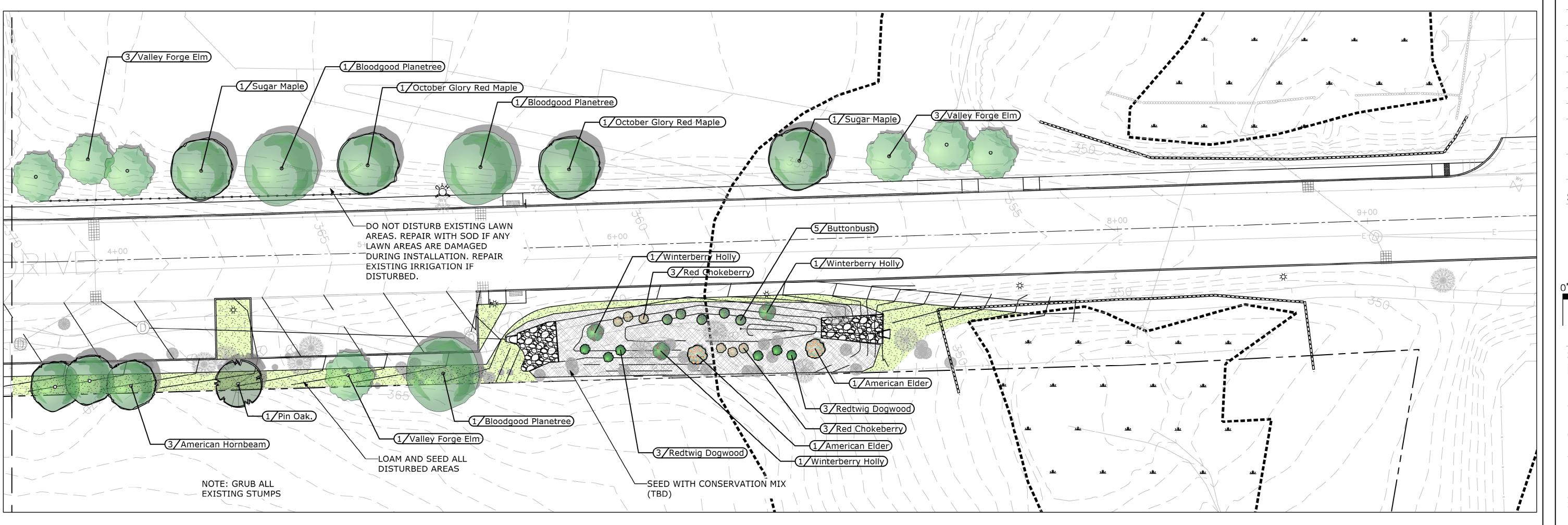
C3.00











### Poirier Road Landscape Marlborough, MA

Owner

### City of Marlborough

Department of Public Works 135 Neil Street Marlborough, MA 01752

Landscape Architect



Radner Design Associates, Inc.

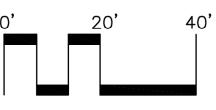
945 Concord Street, Suite 100 Framingham, MA 01701 508.736.6144 www.RadnerDesign.com

Revision:

Drawn: mr

1"=20'-0" Scale:

PROGRESS PLAN



Sheet Name: Landscape Plan

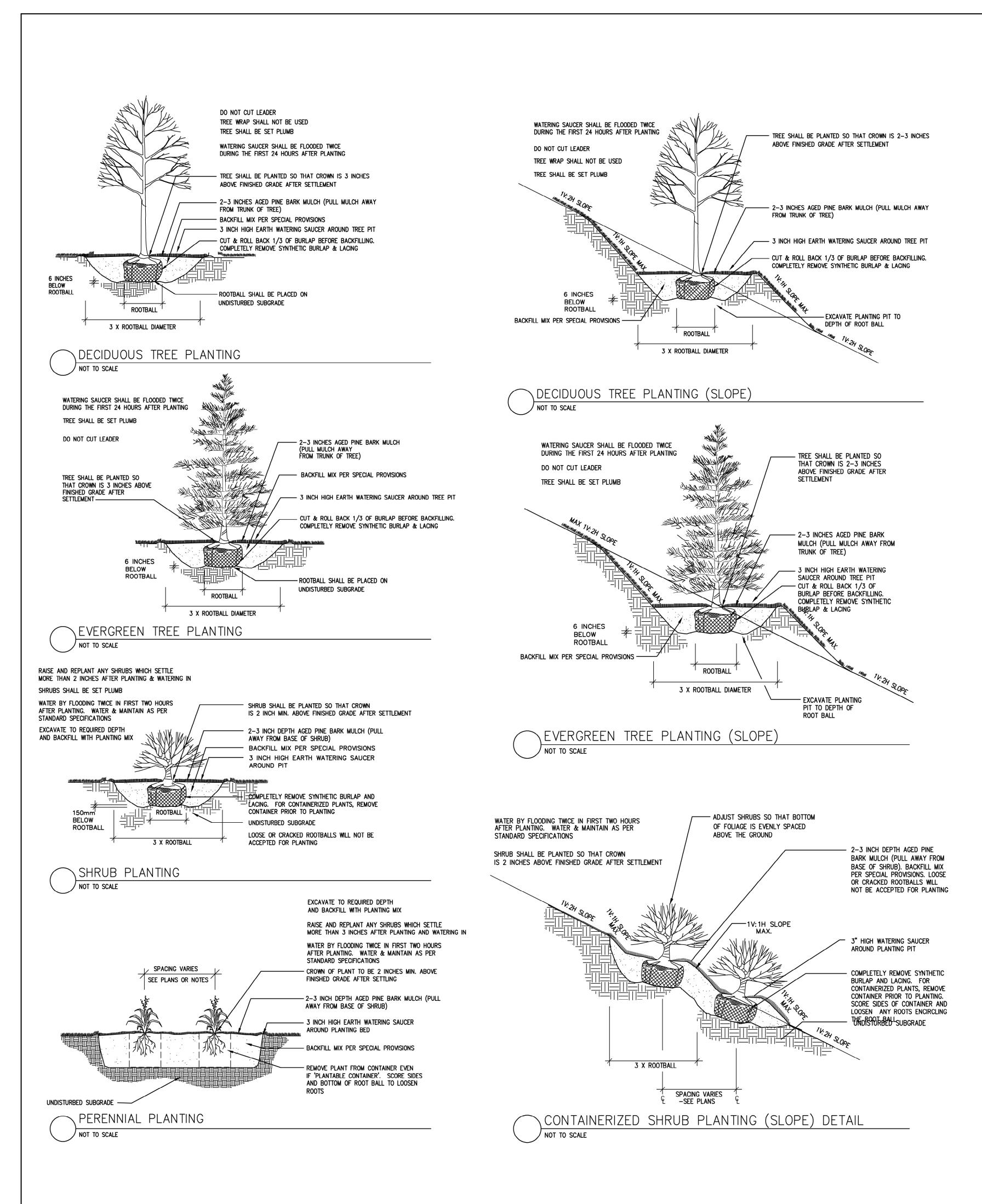
Project No.: 20-10

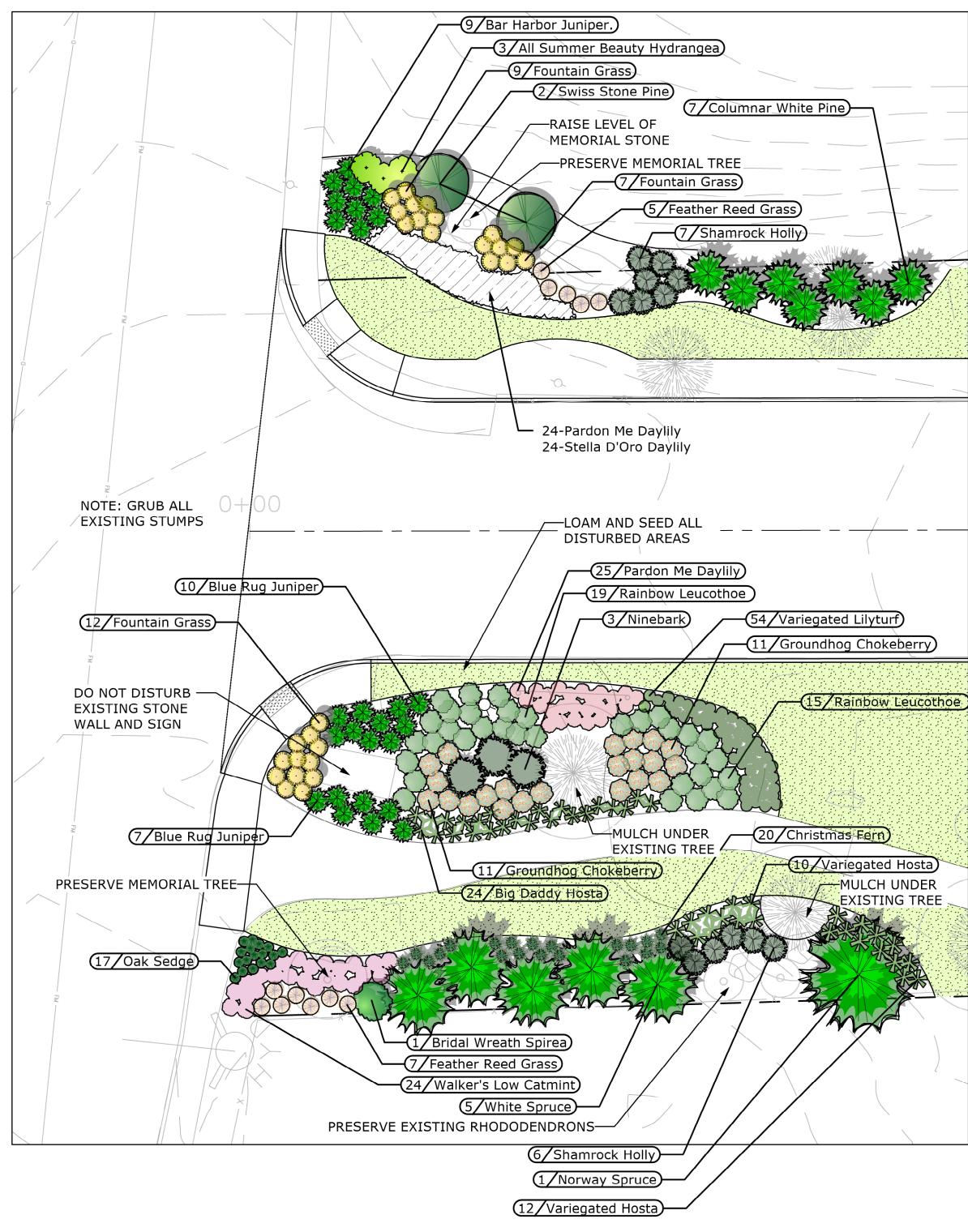
Issue Date:

04.01.2020

Sheet No.:

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- FURNISH AND INSTALL PLANTS AS SHOWN. CONTRACTOR SHALL BE RESPONSIBLE FOR QUANTITY OF SHRUBS GRAPHICALLY SHOWN ON PLANS. IF THERE IS A DISCREPANCY BETWEEN PLANT LIST QUANTITIES AND GRAPHICS, THE GRAPHIC SHALL TAKE PRECEDENCE. 2. PRIOR TO THE START OF EXCAVATION FOR THE PROJECT BOTH ON AND OF THE SITE, THE CONTRACTOR SHALL NOTIFY DIGSAFE AND
- 3. CONTRACTOR SHALL BEGIN 90 DAY MAINTENANCE PERIOD IMMEDIATELY UPON PLANTING AND WILL CONTINUE UNTIL FINAL
- ACCEPTANCE. 4. CONTRACTOR SHALL VERIFY TREE REMOVALS WITH LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION START.
- CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE AWAY FROM BUILDING FOUNDATIONS, STRUCTURES, AND PLANTING BEDS. MAXIMUM SLOPE WITHIN DISTURBED AREAS SHALL NOT EXCEED 3:1, UNLESS OTHERWISE NOTED.
- PLANTS SHALL BEAR THE SAME RELATIONSHIP TO FINISH GRADE AS TO ORIGINAL GRADES BEFORE DIGGING

BE PROVIDED A DIGSAFE NUMBER INDICATING THAT EXISTING UTILITIES HAVE BEEN LOCATED AND MARKED.

- PLANT MATERIALS SHALL CONFORM TO THE GUIDELINES ESTABLISHED BY "THE AMERICAN STANDARD FOR NURSERY STOCK",
- PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN. 9. PLANTS TO BE BALLED IN BURLAP OR CONTAINERIZED.
- THICKER THAN 1/4 INCH. 11. PLANTING SOIL MIX: LOAM THOROUGHLY INCORPORATED WITH ROTTED MANURE PROPORTIONED 5 C.Y. TO 1 C.Y. OR EQUIVALENT.
- USE OF PEAT MOSS IS PROHIBITED.

MINIMUM DEPTH OF 6", AND SEEDED WITH A MIX CONSISTING OF 40% PERENNIAL RYE GRASS; 30% CHEWINGS FESCUE; 30% KENTUCKY

10. MULCH FOR PLANTED AREAS TO BE AGED PINE BARK: PARTIALLY DECOMPOSED, DARK BROWN IN COLOR AND FREE OF WOOD CHIPS

- 12. THE LANDSCAPE CONTRACTOR SHALL GUARANTEE PLANT MATERIALS FOR ONE (1) FULL YEAR FROM DATE OF ACCEPTANCE. REQUEST THE LANDSCAPE ARCHITECT PROVIDE A WRITTEN LETTER OF ACCEPTANCE UPON COMPLETION OF EACH PHASE.
- 13. PLANT MATERIALS ARE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT, AT THE NURSERY, AND AT THE SITE.
- 14. LANDSCAPE ARCHITECT TO FLAG TREES TO BE TRANSPLANTED PRIOR TO CONSTRUCTION START.
- 15. AREAS OF THE SITE WHICH HAVE BEEN DISTURBED AND NOT OTHERWISE DEVELOPED SHALL BE LOAMED WITH TOPSOIL TO A
- 16. SCREENED IMAGES SHOW EXISTING CONDITIONS. WHERE EXISTING CONDITIONS LIE UNDER OR ARE IMPINGED UPON BY
- PROPOSED BUILDINGS AND/OR SITE ELEMENTS, THE EXISTING CONDITION WILL BE REMOVED, ABANDONDED AND/OR CAPPED OR
- 18. NO PLANTING SHALL BE INSTALLED BEFORE ACCEPTANCE OF ROUGH GRADING. 19. PLANTS TO BE THOROUGHLY WATERED AFTER INSTALLATION, AT LEAST TWICE WITHIN THE FIRST 24 HOURS.

17. THERE SHALL BE NO SUBSTITUTION OF PLANT SPECIES WITHOUT AUTHORIZATION BY THE LANDSCAPE ARCHITECT

Poirier Road Landscape Marlborough, MA

Owner

### City of Marlborough

Department of Public Works 135 Neil Street Marlborough, MA 01752

Landscape Architect



945 Concord Street, Suite 100 Framingham, MA 01701 508.736.6144 www.RadnerDesign.com

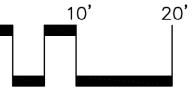
PROGRESS PLAN

1"=10'-0"

Revision:

Scale:

Drawn: mr





Sheet Name: Landscape Enlargement

Project No.: 20-10

Issue Date: 04.01.2020

Sheet No.:

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### MASSACHUSETTS DEPARTMENT OF TRANSPORTATION HIGHWAY DIVISION

MARLBOROUGH BOSTON POST ROAD (ROUTE 20)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	1	428
	PROJECT FILE NO.	608467	

TITLE SHEET & INDEX

PLAN AND PROFILE OF

RESURFACING AND RELATED WORK ON ROUTE 20

IN THE CITY OF

MARLBOROUGH
MIDDLESEX COUNTY

FEDERAL AID PROJECT NO.

THESE PLANS ARE SUPPLEMENTED BY THE OCTOBER 2017 CONSTRUCTION STANDARD DETAILS, THE 2015 OVERHEAD SIGNAL STRUCTURE AND FOUNDATION STANDARD DRAWINGS, MASSDOT TRAFFIC MANAGEMENT PLANS AND DETAIL DRAWINGS, THE 1990 STANDARD DRAWINGS FOR SIGNS AND SUPPORTS, THE 1968 STANDARD DRAWINGS FOR TRAFFIC SIGNALS AND HIGHWAY LIGHTING, AND THE LATEST EDITION OF THE AMERICAN STANDARD FOR NURSERY STOCK.

Plans showing wetlands jurisdiction areas and relevant details are highlighted below.

show wetland jurisdiction areas.

SHEET NO.	DESCRIPTION
1	TITLE SHEET & INDEX
2	GENERAL NOTES
3	LEGEND & ABBREVIATIONS
4 - 7	KEY PLAN

8 - 11 BORING LOGS
 12 PAVEMENT NOTES
 13 - 25 TYPICAL SECTIONS Sh. 18 Hager Pond Slope Detail

26 - 38 CONSTRUCTION BASELINE TIES
39 - 65 CONSTRUCTION PLANS Sheets 41, 42, 45-48, 55-59, 61, 62, 64, 65

66 - 79 PROFILES
80 - 83 SIDE STREET PROFILES

84 - 134 CURB TIE PLANS 135 - 161 GRADING PLANS

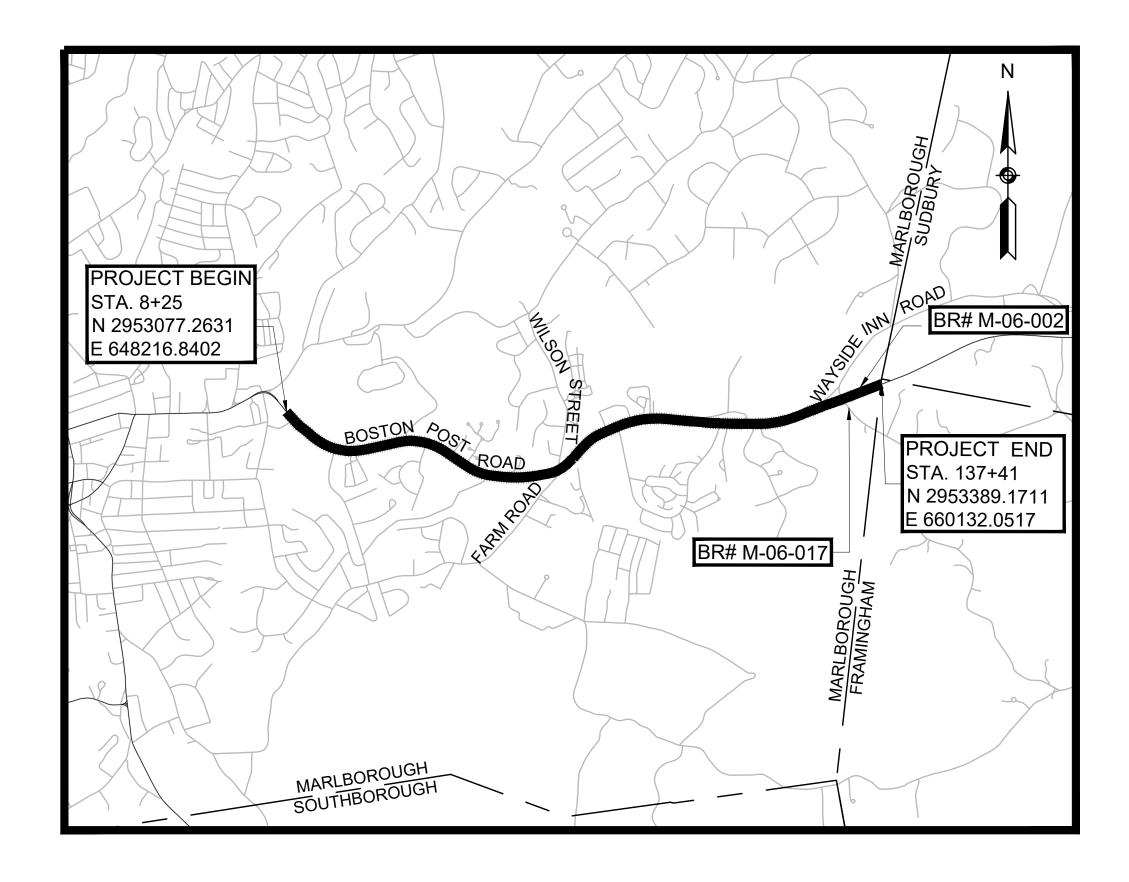
SHEET NO.	DESCRIPTION
162 - 188	TRAFFIC SIGN & PAVEMENT MARKINGS
189 - 190	TRAFFIC SIGN SUMMARY SHEET
191 - 203	TRAFFIC SIGNAL PLANS & DATA
204	TRAFFIC SIGNAL DETAILS
205	MAST ARM FOUNDATION DETAIL
206 - 222	TEMPORARY TRAFFIC CONTROL PLANS
223 - 249	UTILITY PLANS
250 - 253	DRAINAGE SCHEDULE
254 - 256	WETLAND MITIGATION PLANS
257 - 283	WATER PLANS
284 - 287	LANDSCAPE PLANS
288 - 290	LANDSCAPE DETAILS

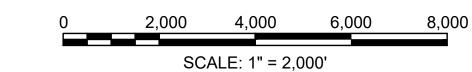
CONSTRUCTION DETAILS Sheets 290 & 293 Wetland Related Details

301 - 306	WHEELCHAIR RAMP/DRIVEWAY DETAILS

SHEET NO.	DESCRIPTION
307 - 410	CROSS SECTIONS
411 - 428	CROSS SECTIONS SIDE STREETS

291 - 300





LENGTH OF PROJECT = 12916 FEET = 2.44 MILES

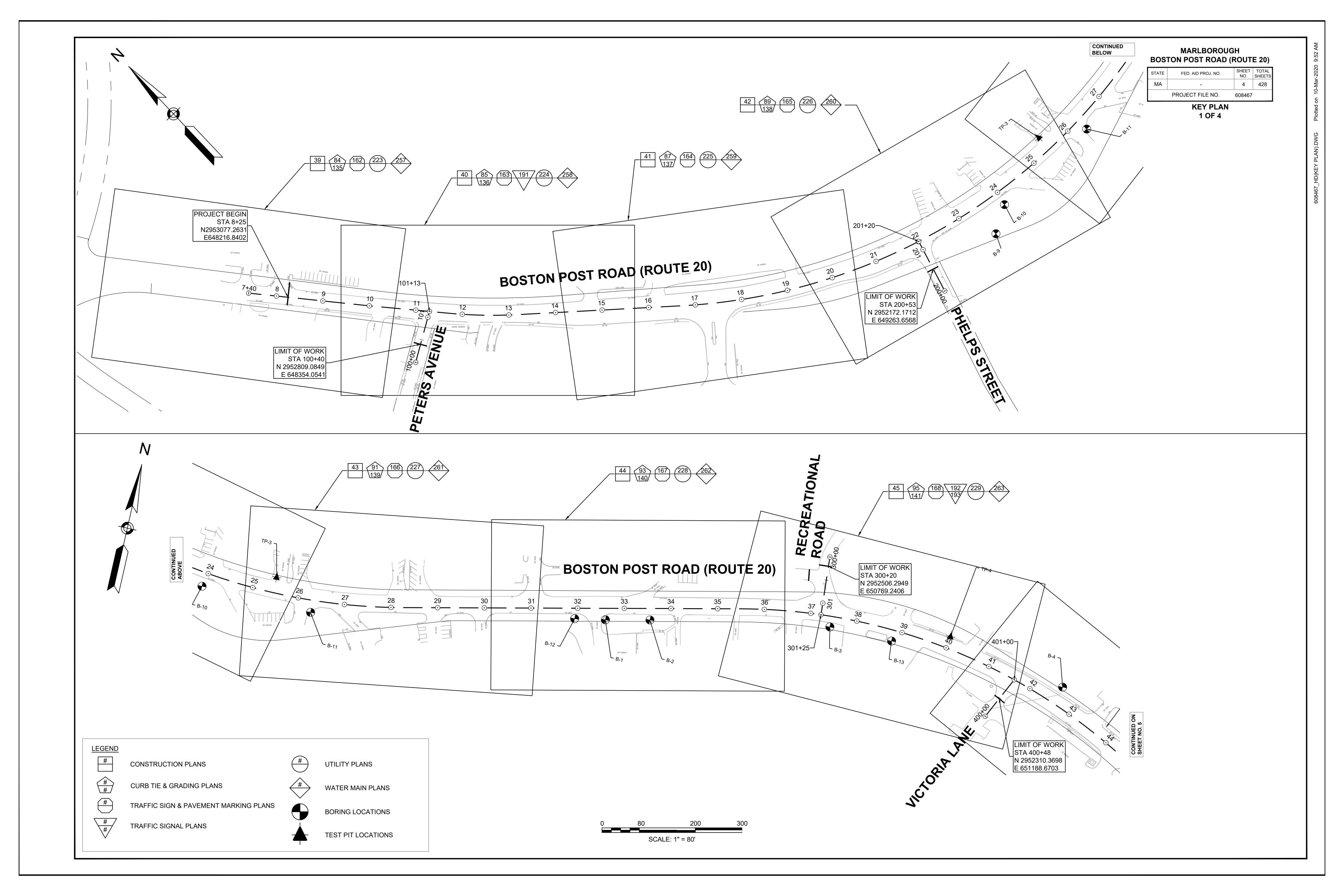


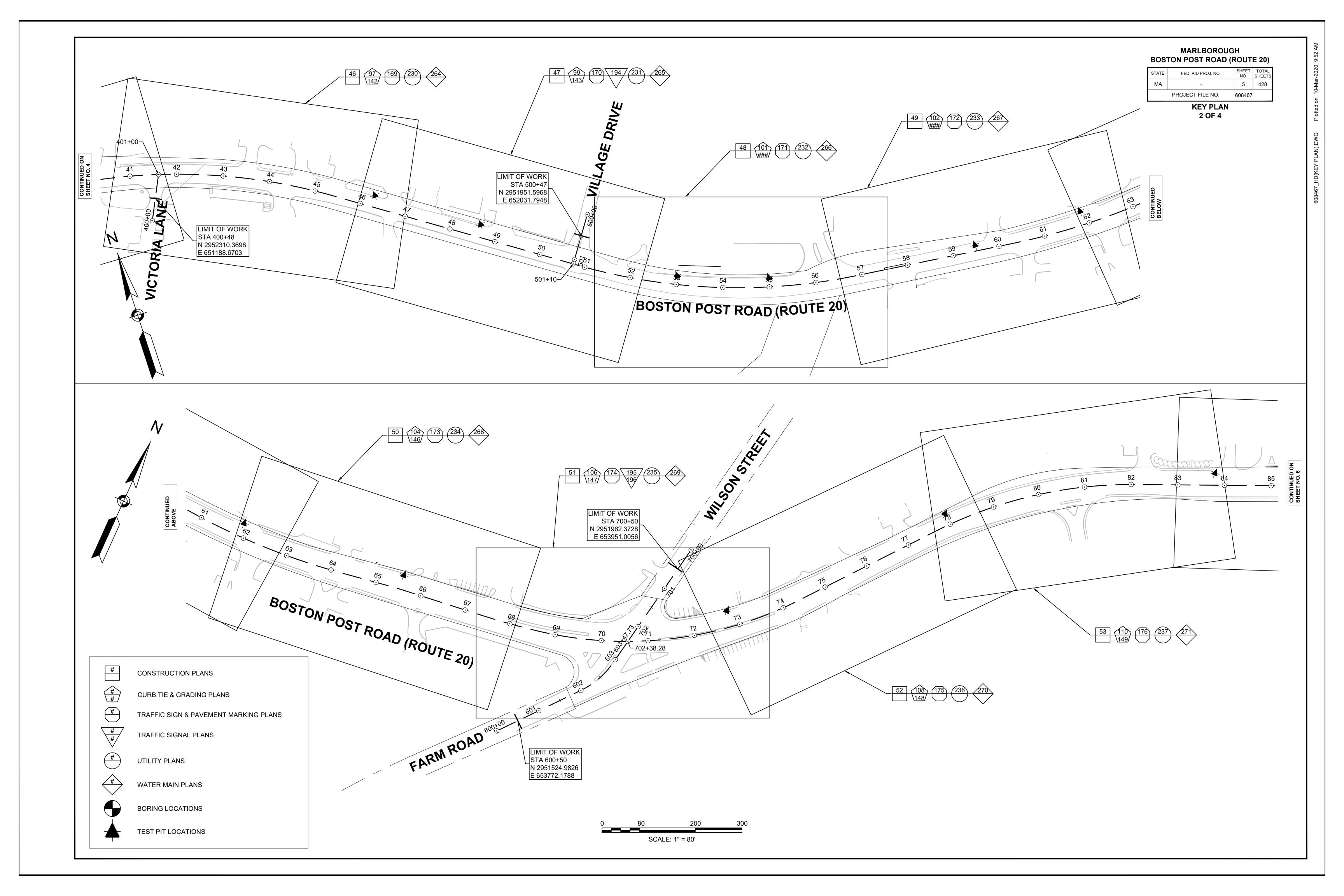
11 Beacon Street, Suite 1010 Boston, MA 02108 www.hshassoc.com

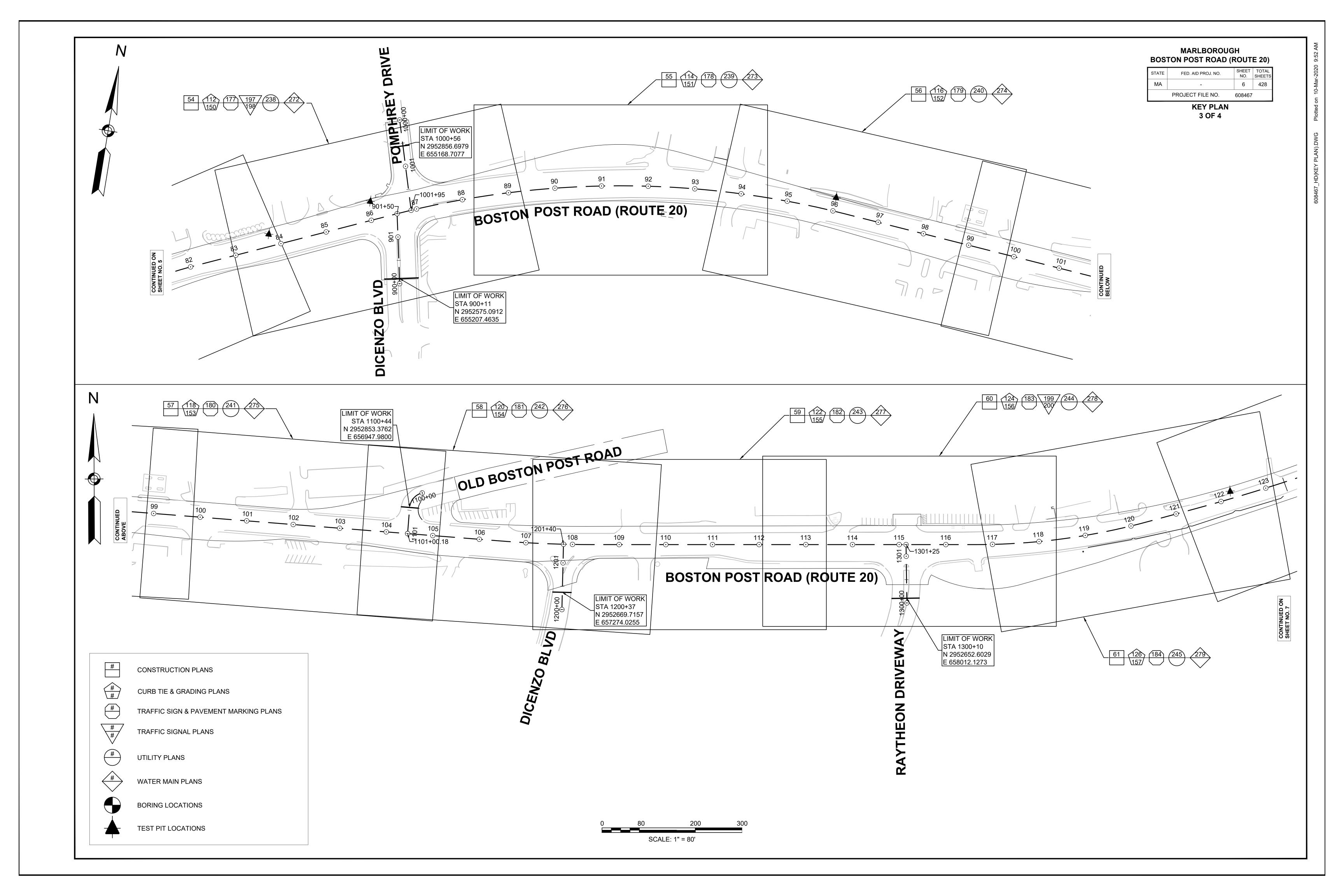
DESIGN SPEED	35 MPH
ADT (2016)	21,700
ADT (2026)	22,810
K	9.2%
D	65%
T (PEAK HOUR)	5.0%
T (AVERAGE DAY)	3.0%
DHV	2,028
DDHV	1,318
FUNCTIONAL CLASSIFICATION	URBAN PRINCIPAL ARTERIAL

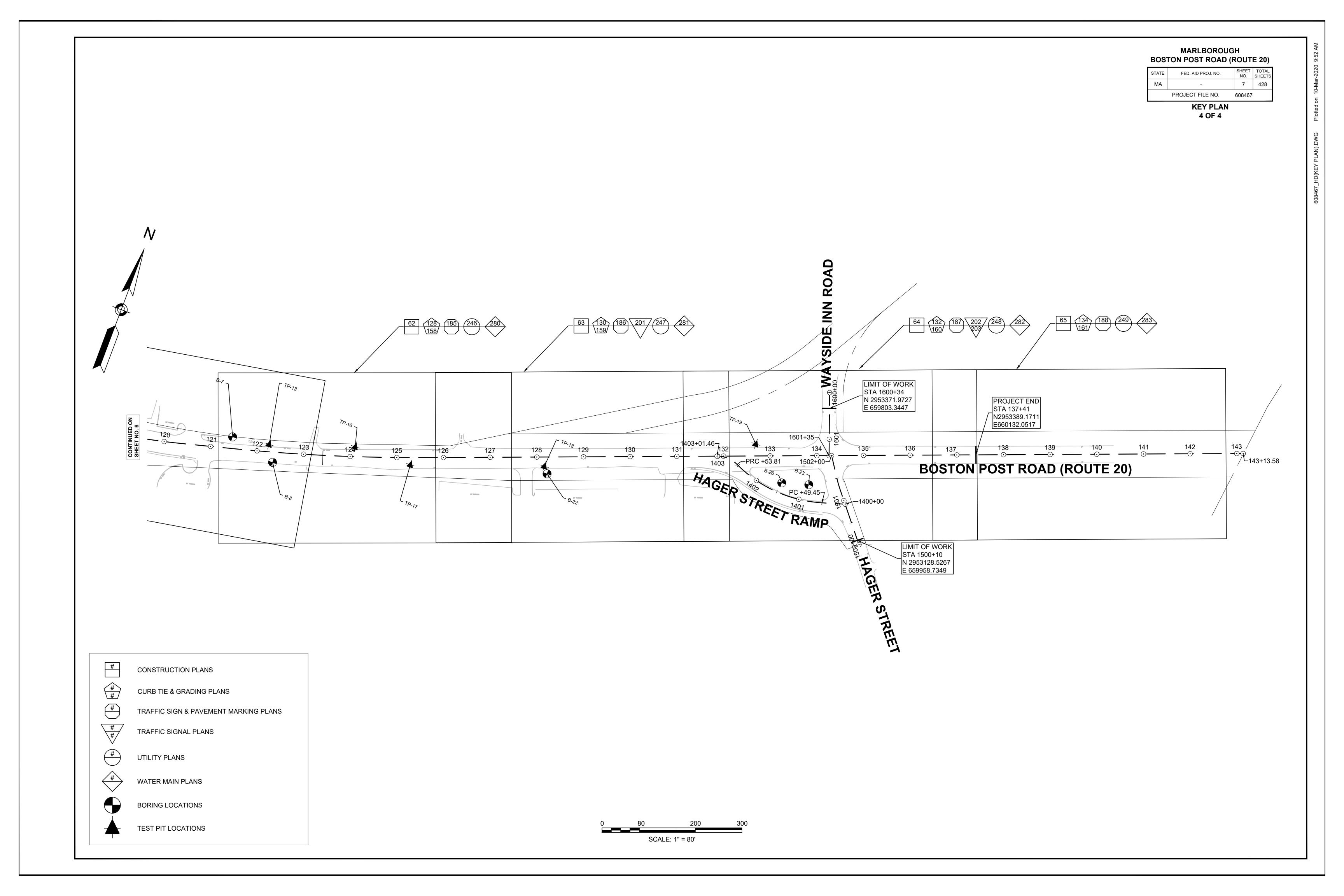
FEB 2020	PS&E SUBMISSION	
NOV 2019	100% SUBMISSION	
JUL 2019	75% SUBMISSION	
AUG 2018	25% SUBMISSION	
OCT 2017	25% SUBMISSION	
	DECODIDION	

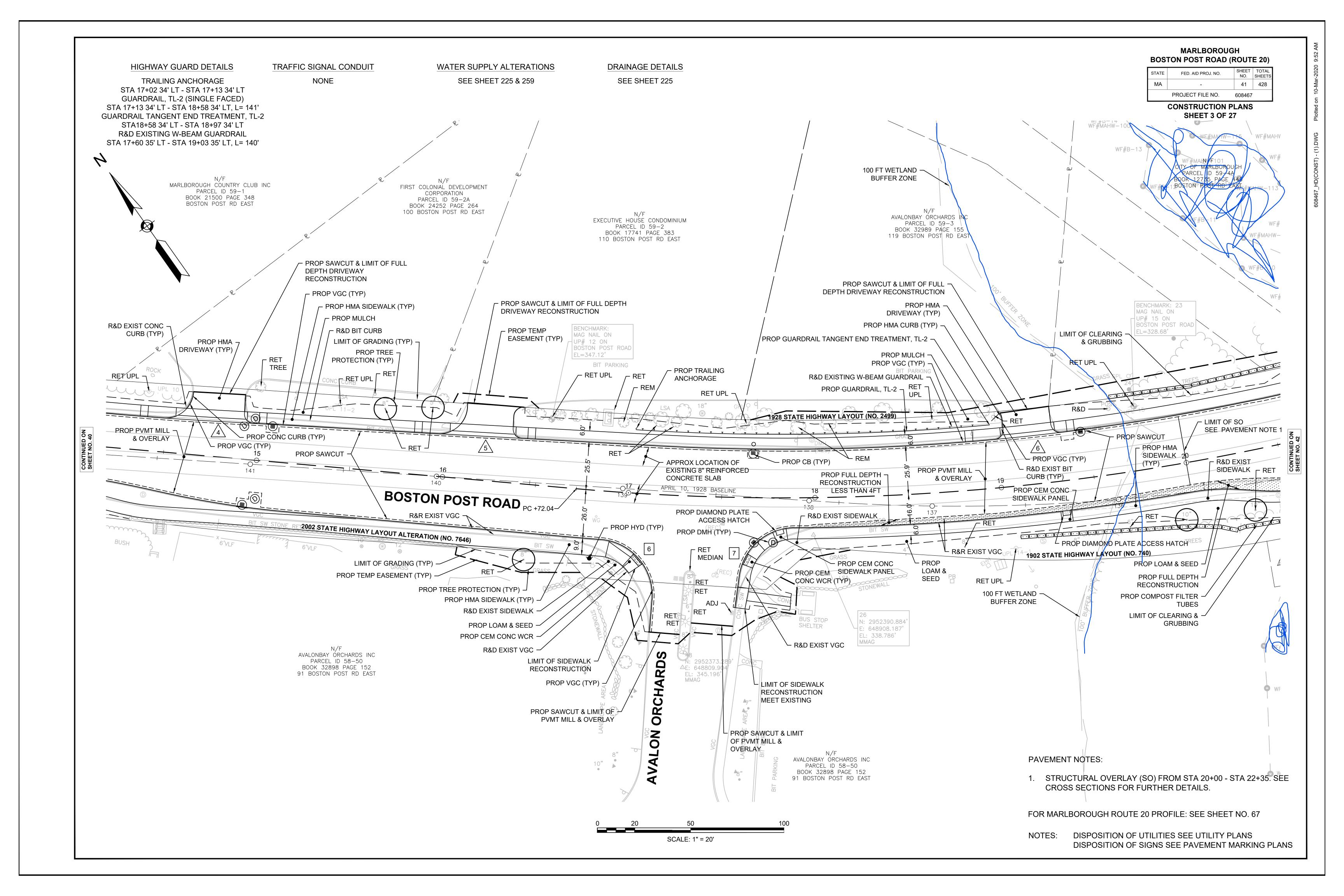
GENERAL SYMBOL	LS		GENERAL SYMBOLS	3 (CONT.)		ABBREVIATIO	ONS	_	MARLBOROUGH
EXISTING	PROPOSED	<u>DESCRIPTION</u>	EXISTING	PROPOSED	DESCRIPTION	GENERAL			BOSTON POST ROAD (ROUTE 20)
☐ JB	JB	JERSEY BARRIER			ROPOSED PLANTING - SEE PLANTING SCHEDULE	AADT	ANNUAL AVERAGE DAILY TRAFFIC		STATE FED. AID PROJ. NO. SHEET NO. SHEETS
<b>⊞ ⊕ ⊕</b> СВ	■ CB	CATCH BASIN		×	ROPOSED PLANTING - SEE PLANTING SCHEDULE	ABAN	ABANDON		MA - 3 428
	■ CBCI	CATCH BASIN CURB INLET		Ŭ PF	OPOSED PLANTING - SEE PLANTING SCHEDULE	ADJ APPROX	ADJUST APPROXIMATE		PROJECT FILE NO. 608467
	☐ GICI	GUTTER INLET		O PF	ROPOSED PLANTING - SEE PLANTING SCHEDULE	AC PIPE	ASBESTOS-CEMENT PIPE		
	— ⊗ FP	FLAG POLE		PF	OPOSED PLANTING - SEE PLANTING SCHEDULE	ACFIFE	ASPHALT CONCRETE		LEGEND & ABBREVIATIONS
G GP	<b>G</b> GP	GAS PUMP		<b>₩</b> PF	OPOSED PLANTING - SEE PLANTING SCHEDULE	ACCM PIPE	ASPHALT COATED CORRUGATED METAL PIPE	ABBREVIAT <sup>1</sup>	TIONS (CON'T)
□ MB	□ MB	MAIL BOX				BIT	BITUMINOUS		,
		POST SQUARE				ВС	BOTTOM OF CURB	GENERAL	
0	0	POST CIRCULAR	TRAFFIC SYMBOLS			BD	BOUND	PROP	PROPOSED
WELL	⊕ WELL	WELL			DESCRIPTION	— BL	BASELINE	PSB	PLANTABLE SOIL BORROW
EHH	□ EHH	ELECTRIC HANDHOLE	EXISTING	PROPOSED	DESCRIPTION	BLDG	BUILDING	PT	POINT OF TANGENCY
o GG	O O GG	FENCE GATE POST	<b>Ø</b> 1	<b>Ø</b> 1	CONTROLLER PHASE ACTUATED	BM	BENCHMARK	PVC	POINT OF VERTICAL CURVATURE
BHL #	BHL#	GAS GATE BORING HOLE	[Ō]			ВО	BY OTHERS	PVCC	POINT OF COMPOUND VERTICAL CUF
- MW #	◆ MW#	MONITORING WELL			TRAFFIC SIGNAL HEAD (SIZE AS NOTED)	BOS	BOTTOM OF SLOPE		
TP #	Ψ TP#	TEST PIT				BR CB	BRIDGE CATCH BASIN	PVI	POINT OF VERTICAL INTERSECTION
φ. "	<u></u> Ф	HYDRANT			WIRE LOOP DETECTOR (6' x 6' TYP UNLESS OTHERWISE SPECIFIED)	CBCI	CATCH BASIN WITH CURB INLET	PVT	POINT OF VERTICAL TANGENCY
*	*	LIGHT POLE		7	VIDEO DETECTION CAMERA	CC	CEMENT CONCRETE	PVMT	PAVEMENT
CO.BD.	•	COUNTY BOUND		<b>-</b>	MICROWAVE DETECTOR	CCM	CEMENT CONCRETE MASONRY	PWW	PAVED WATERWAY
		GPS POINT				CEM	CEMENT	R&D	RADIUS OF CURVATURE REMOVE AND DISPOSE
©	©	CABLE MANHOLE	$\oplus$	•	PEDESTRIAN PUSH BUTTON, SIGN, AND SADDLE	CI	CURB INLET	RCP	REINFORCED CONCRETE PIPE
D	DMH	DRAINAGE MANHOLE	0	<b>©</b>	EMERGENCY PREEMPTION CONFIRMATION STROBE LIGHT	CIP	CAST IRON PIPE	RD	ROAD
_	_		<	<b>—</b>	VEHICULAR SIGNAL HEAD	CIT	CHANGE IN TYPE	RDWY	ROADWAY
(E)	E C	ELECTRIC MANHOLE				CLF	CHAIN LINK FENCE	REM	REMOVE
(G)	© ~	GAS MANHOLE	≪<	-	VEHICULAR SIGNAL HEAD, OPTICALLY PROGRAMMED	CL	CENTERLINE	RET	RETAIN
M	(M)	MISC MANHOLE	<	<b>—</b>	FLASHING BEACON	CMP	CORRUGATED METAL PIPE	RET WALL	RETAINING WALL
(S)	<u>s</u>	SEWER MANHOLE		-	PEDESTRIAN SIGNAL HEAD, (TYPE AS NOTED OR AS SPECIFIED)	CSP	CORRUGATED STEEL PIPE	ROW	RIGHT OF WAY
	① 	TELEPHONE MANHOLE WATER MANHOLE				CO CONC	COUNTY CONCRETE	RR	RAILROAD
(w) MHB	<ul><li>W</li><li>■ MHB</li></ul>	MASSACHUSETTS HIGHWAY BOUND	⊠ RRSG	<b>⊠</b> RRSG	RAILROAD SIGNAL	CONC CON'T	CONCRETE	R&R	REMOVE AND RESET
MON	= IVITIB	MONUMENT		•	SIGNAL POST AND BASE (ALPHA-NUMERIC DESIGNATION NOTED)	CONST	CONTINUED	R&S	REMOVE AND STACK
SB		STONE BOUND	·	20'	MAST ARM, SHAFT AND BASE (ARM LENGTH AS NOTED)	CR GR	CROWN GRADE	RT SB	RIGHT STONE BOUND
TB		TOWN OR CITY BOUND		<b>- -</b>	· · · · · · · · · · · · · · · · · · ·	DHV	DESIGN HOURLY VOLUME	SB	STONE BOUND SLOPED GRANITE EDGING
Δ		TRAVERSE OR TRIANGULATION STATION			HIGH MAST POLE OR TOWER	DI	DROP INLET	SHLD	SHOULDER
PL or GUY	→ TPL or GUY	TROLLEY POLE OR GUY POLE			SIGN AND POST	DIA	DIAMETER	SMH	SEWER MANHOLE
P HTP		TRANSMISSION POLE	00	00	SIGN AND POST (2 POSTS)	DIP	DUCTILE IRON PIPE	ST	STREET
- UFB	- <b>占</b> - UFB	UTILITY POLE W/ FIREBOX				DMH	DRAINAGE MANHOLE	STA	STATION
UPDL	-∳ UPDL	UTILITY POLE WITH DOUBLE LIGHT		<b>★</b> <sup>20′</sup> •	MAST ARM WITH LUMINAIRE	DW	STEADY DON'T WALK - PORTLAND ORANGE	SSD	STOPPING SIGHT DISTANCE
- ULT	ے۔ ULT	UTILITY POLE W / 1 LIGHT	<b>◇</b> —	♦—	OPTICAL PRE-EMPTION DETECTOR	DWY	DRIVEWAY	SHLO	STATE HIGHWAY LAYOUT LINE
- UPL	> UPL	UTILITY POLE		$\bowtie$	CONTROL CABINET, GROUND MOUNTED	ELEV	ELEVATION	SW	SIDEWALK
0		BUSH				EMB	EMBANKMENT	Т	TANGENT DISTANCE OF CURVE/TRU
E & TYPE		TREE		<b>&amp;</b>	CONTROL CABINET, POLE MOUNTED	EOP	EDGE OF PAVEMENT	TAN	TANGENT
0		STUMP			FLASHING BEACON CONTROL AND METER PEDESTAL	EXIST	EXISTING	TEMP	TEMPORARY
<u> </u>		SWAMP / MARSH		$\boxtimes$	LOAD CENTER ASSEMBLY	EXC	EXCAVATION  EDAME AND COVER	TC	TOP OF CURB
• WG	• WG	WATER GATE				F&C F&G	FRAME AND COVER FRAME AND GRATE	TOS	TOP OF SLOPE
DM	H	GATE VALVE			PULL BOX 12"x12" (OR AS NOTED)	FDN	FOUNDATION	TYP UP	TYPICAL
• PM	• PM	PARKING METER			ELECTRIC HANDHOLE 12"x24" (OR AS NOTED)	FES	FLARED END SECTION	VAR	UTILITY POLE VARIES
		<ul><li>OVERHEAD CABLE/WIRE</li><li>CURBING</li></ul>			= TRAFFIC SIGNAL CONDUIT	FLDSTN	FIELDSTONE	VERT	VERTICAL
		– CORDING – CONTOURS (ON-THE-GROUND SURVEY DATA)				FT	FEET	VC	VERTICAL CURVE
		- CONTOURS (PHOTOGRAMMETRIC DATA)			TRAFFIC SIGNAL CONDUIT (ABANDONED)	GAR	GARAGE	VLF	VINYL FENCE
		- UNDERGROUND DRAIN PIPE (DOUBLE LINE 24 INCH AND OVER)		☐ OR ☐ OR ☑	LOOP DETECTOR	GD	GROUND	WCR	WHEEL CHAIR RAMP
		- UNDERGROUND ELECTRIC DUCT (DOUBLE LINE 24 INCH AND OVER)				GG	GAS GATE	WDF	WOOD FENCE
		- UNDERGROUND GAS MAIN (DOUBLE LINE 24 INCH AND OVER)				GI	GUTTER INLET	WG	WATER GATE
		- UNDERGROUND SEWER MAIN (DOUBLE LINE 24 INCH AND OVER)						•	
			PAVEMENT MARKIN	GS SYMBOLS		GICI	GUTTER INLET WITH CURB INLET	WIF	WROUGHT IRON FENCE
		- UNDERGROUND TELEPHONE DUCT (DOUBLE LINE 24 INCH AND OVER)				—— GIP	GALVANIZED IRON PIPE	WIF WIP	WROUGHT IRON PIPE
		· · · · · · · · · · · · · · · · · · ·	PAVEMENT MARKING <u>EXISTING</u>	PROPOSED	<u>DESCRIPTION</u>	—— GIP GRAN	GALVANIZED IRON PIPE GRANITE	WIF WIP WM	WROUGHT IRON PIPE WATER METER/WATER MAIN
		- UNDERGROUND TELEPHONE DUCT (DOUBLE LINE 24 INCH AND OVER)			DESCRIPTION PAVEMENT ARROW - WHITE	—— GIP GRAN GRAV	GALVANIZED IRON PIPE GRANITE GRAVEL	WIF WIP	WROUGHT IRON PIPE
		<ul> <li>UNDERGROUND TELEPHONE DUCT (DOUBLE LINE 24 INCH AND OVER)</li> <li>UNDERGROUND WATER MAIN (DOUBLE LINE 24 INCH AND OVER)</li> <li>BALANCED STONE WALL</li> <li>GUARD RAIL - STEEL POSTS</li> </ul>			PAVEMENT ARROW - WHITE	—— GIP GRAN GRAV GRD	GALVANIZED IRON PIPE GRANITE GRAVEL GUARD	WIF WIP WM	WROUGHT IRON PIPE WATER METER/WATER MAIN CROSS SECTION
		<ul> <li>UNDERGROUND TELEPHONE DUCT (DOUBLE LINE 24 INCH AND OVER)</li> <li>UNDERGROUND WATER MAIN (DOUBLE LINE 24 INCH AND OVER)</li> <li>BALANCED STONE WALL</li> <li>GUARD RAIL - STEEL POSTS</li> <li>GUARD RAIL - WOOD POSTS</li> </ul>			PAVEMENT ARROW - WHITE  LEGEND "ONLY" - WHITE	GIP GRAN GRAV GRD GV	GALVANIZED IRON PIPE GRANITE GRAVEL GUARD GATE VALVE	WIF WIP WM X-SECT TRAFFIC SIG	WROUGHT IRON PIPE WATER METER/WATER MAIN CROSS SECTION GNAL
		<ul> <li>UNDERGROUND TELEPHONE DUCT (DOUBLE LINE 24 INCH AND OVER)</li> <li>UNDERGROUND WATER MAIN (DOUBLE LINE 24 INCH AND OVER)</li> <li>BALANCED STONE WALL</li> <li>GUARD RAIL - STEEL POSTS</li> <li>GUARD RAIL - WOOD POSTS</li> <li>CHAIN LINK OR METAL FENCE</li> </ul>		PROPOSED  The second se	PAVEMENT ARROW - WHITE	GIP GRAN GRAV GRD GV HDW	GALVANIZED IRON PIPE GRANITE GRAVEL GUARD GATE VALVE HEADWALL	WIF WIP WM X-SECT TRAFFIC SIG	WROUGHT IRON PIPE WATER METER/WATER MAIN CROSS SECTION  GNAL CABINET
	x	<ul> <li>UNDERGROUND TELEPHONE DUCT (DOUBLE LINE 24 INCH AND OVER)</li> <li>UNDERGROUND WATER MAIN (DOUBLE LINE 24 INCH AND OVER)</li> <li>BALANCED STONE WALL</li> <li>GUARD RAIL - STEEL POSTS</li> <li>GUARD RAIL - WOOD POSTS</li> <li>CHAIN LINK OR METAL FENCE</li> <li>RAILROAD TRACKS</li> </ul>			PAVEMENT ARROW - WHITE  LEGEND "ONLY" - WHITE	GIP GRAN GRAV GRD GV HDW HMA	GALVANIZED IRON PIPE GRANITE GRAVEL GUARD GATE VALVE HEADWALL HOT MIX ASPHALT	WIF WIP WM X-SECT TRAFFIC SIG	WROUGHT IRON PIPE WATER METER/WATER MAIN CROSS SECTION  GNAL CABINET CLOSED CIRCUIT VIDEO EQUIPMENT
		<ul> <li>UNDERGROUND TELEPHONE DUCT (DOUBLE LINE 24 INCH AND OVER)</li> <li>UNDERGROUND WATER MAIN (DOUBLE LINE 24 INCH AND OVER)</li> <li>BALANCED STONE WALL</li> <li>GUARD RAIL - STEEL POSTS</li> <li>GUARD RAIL - WOOD POSTS</li> <li>CHAIN LINK OR METAL FENCE RAILROAD TRACKS</li> <li>WOOD FENCE</li> </ul>		PROPOSED  The second se	PAVEMENT ARROW - WHITE  LEGEND "ONLY" - WHITE  STOP LINE  YIELD LINES (2' BASE, 3' HEIGHT, 3' CENTER-TO-CENTER SPACING	GIP GRAN GRAV GRD GV HDW HMA HOR	GALVANIZED IRON PIPE GRANITE GRAVEL GUARD GATE VALVE HEADWALL HOT MIX ASPHALT HORIZONTAL	WIF WIP WM X-SECT TRAFFIC SIG	WROUGHT IRON PIPE WATER METER/WATER MAIN CROSS SECTION  GNAL CABINET
		<ul> <li>UNDERGROUND TELEPHONE DUCT (DOUBLE LINE 24 INCH AND OVER)</li> <li>UNDERGROUND WATER MAIN (DOUBLE LINE 24 INCH AND OVER)</li> <li>BALANCED STONE WALL</li> <li>GUARD RAIL - STEEL POSTS</li> <li>GUARD RAIL - WOOD POSTS</li> <li>CHAIN LINK OR METAL FENCE</li> <li>RAILROAD TRACKS</li> <li>WOOD FENCE</li> <li>COMPOST FILTER TUBE</li> </ul>		PROPOSED  NIY SL  Y YL CW	PAVEMENT ARROW - WHITE  LEGEND "ONLY" - WHITE  STOP LINE  YIELD LINES (2' BASE, 3' HEIGHT, 3' CENTER-TO-CENTER SPACING  WHITE - CROSSWALK (12" LINES, 10' O.C.; 12" LONGITUDINAL LINE, 4' O.C.)	GIP GRAN GRAV GRD GV HDW HMA HOR HYD	GALVANIZED IRON PIPE GRANITE GRAVEL GUARD GATE VALVE HEADWALL HOT MIX ASPHALT	WIF WIP WM X-SECT TRAFFIC SIG	WROUGHT IRON PIPE WATER METER/WATER MAIN CROSS SECTION  GNAL CABINET CLOSED CIRCUIT VIDEO EQUIPMENT STEADY DON'T WALK
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		<ul> <li>UNDERGROUND TELEPHONE DUCT (DOUBLE LINE 24 INCH AND OVER)</li> <li>UNDERGROUND WATER MAIN (DOUBLE LINE 24 INCH AND OVER)</li> <li>BALANCED STONE WALL</li> <li>GUARD RAIL - STEEL POSTS</li> <li>GUARD RAIL - WOOD POSTS</li> <li>CHAIN LINK OR METAL FENCE RAILROAD TRACKS</li> <li>WOOD FENCE</li> <li>COMPOST FILTER TUBE</li> <li>TREE LINE</li> <li>SAWCUT LINE</li> </ul>		PROPOSED  NIY SL  Y YL CW	PAVEMENT ARROW - WHITE  LEGEND "ONLY" - WHITE  STOP LINE  YIELD LINES (2' BASE, 3' HEIGHT, 3' CENTER-TO-CENTER SPACING  WHITE - CROSSWALK (12" LINES, 10' O.C.; 12" LONGITUDINAL LINE, 4' O.C.)	GIP GRAN GRAV GRD GV HDW HMA HOR HYD	GALVANIZED IRON PIPE GRANITE GRAVEL GUARD GATE VALVE HEADWALL HOT MIX ASPHALT HORIZONTAL HYDRANT INVERT	WIF WIP WM X-SECT TRAFFIC SIG	WROUGHT IRON PIPE WATER METER/WATER MAIN CROSS SECTION  GNAL  CABINET CLOSED CIRCUIT VIDEO EQUIPMENT STEADY DON'T WALK FLASHING DON'T WALK FLASHING CIRCULAR RED FLASHING RED LEFT ARROW FLASHING RED RIGHT ARROW
		- 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 - CHAIN LINK OR METAL FENCE RAILROAD TRACKS - WOOD FENCE - COMPOST FILTER TUBE - TREE LINE - SAWCUT LINE - TOP OR BOTTOM OF SLOPE		PROPOSED  SL  VYL CW SWL WSWL	PAVEMENT ARROW - WHITE  LEGEND "ONLY" - WHITE  STOP LINE  YIELD LINES (2' BASE, 3' HEIGHT, 3' CENTER-TO-CENTER SPACING  WHITE - CROSSWALK (12" LINES, 10' O.C.; 12" LONGITUDINAL LINE, 4' O.C.)  6" SOLID WHITE LINE  12" WIDE SOLID WHITE LINE	GIP GRAN GRAV GRD GV HDW HMA HOR HYD INV	GALVANIZED IRON PIPE GRANITE GRAVEL GUARD GATE VALVE HEADWALL HOT MIX ASPHALT HORIZONTAL HYDRANT INVERT IRON PIPE FOUND	WIF WIP WM X-SECT TRAFFIC SIG	WROUGHT IRON PIPE WATER METER/WATER MAIN CROSS SECTION  GNAL  CABINET CLOSED CIRCUIT VIDEO EQUIPMENT STEADY DON'T WALK FLASHING DON'T WALK FLASHING CIRCULAR RED FLASHING RED LEFT ARROW FLASHING RED RIGHT ARROW FLASHING CIRCULAR AMBER
		- 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 - CHAIN LINK OR METAL FENCE RAILROAD TRACKS - WOOD FENCE - COMPOST FILTER TUBE - TREE LINE - SAWCUT LINE - TOP OR BOTTOM OF SLOPE - LIMIT OF EDGE OF PAVEMENT OR COLD PLANE AND OVERLAY	EXISTING	PROPOSED  SL  VYL  CW  SWL  WSWL  SYL	PAVEMENT ARROW - WHITE  LEGEND "ONLY" - WHITE  STOP LINE  YIELD LINES (2' BASE, 3' HEIGHT, 3' CENTER-TO-CENTER SPACING  WHITE - CROSSWALK (12" LINES, 10' O.C.; 12" LONGITUDINAL LINE, 4' O.C.)  6" SOLID WHITE LINE  12" WIDE SOLID WHITE LINE  6" SOLID YELLOW LINE	GIP GRAN GRAV GRD GV HDW HMA HOR HYD INV IRF JCT L LB	GALVANIZED IRON PIPE GRANITE GRAVEL GUARD GATE VALVE HEADWALL HOT MIX ASPHALT HORIZONTAL HYDRANT INVERT IRON PIPE FOUND JUNCTION LENGTH OF CURVE LEACH BASIN	WIF WIP WM X-SECT TRAFFIC SIG	WROUGHT IRON PIPE WATER METER/WATER MAIN CROSS SECTION  GNAL  CABINET CLOSED CIRCUIT VIDEO EQUIPMENT STEADY DON'T WALK FLASHING DON'T WALK FLASHING CIRCULAR RED FLASHING RED LEFT ARROW FLASHING RED RIGHT ARROW FLASHING CIRCULAR AMBER FLASHING AMBER LEFT ARROW
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		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  CHAIN LINK OR METAL FENCE RAILROAD TRACKS  WOOD FENCE  COMPOST FILTER TUBE  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	EXISTING	PROPOSED  The second se	PAVEMENT ARROW - WHITE  LEGEND "ONLY" - WHITE  STOP LINE  YIELD LINES (2' BASE, 3' HEIGHT, 3' CENTER-TO-CENTER SPACING  WHITE - CROSSWALK (12" LINES, 10' O.C.; 12" LONGITUDINAL LINE, 4' O.C.)  6" SOLID WHITE LINE  12" WIDE SOLID WHITE LINE  6" SOLID YELLOW LINE	GIP GRAN GRAV GRD GV HDW HMA HOR HYD INV IRF JCT L LB	GALVANIZED IRON PIPE GRANITE GRAVEL GUARD GATE VALVE HEADWALL HOT MIX ASPHALT HORIZONTAL HYDRANT INVERT IRON PIPE FOUND JUNCTION LENGTH OF CURVE LEACH BASIN LIGHT POLE LANDSCAPE	WIF WIP WM X-SECT  TRAFFIC SIGNATURE  CAB CCVE DW FDW FR FRL FRR FY FYL FYR G	WROUGHT IRON PIPE WATER METER/WATER MAIN CROSS SECTION  GNAL  CABINET CLOSED CIRCUIT VIDEO EQUIPMENT STEADY DON'T WALK FLASHING DON'T WALK FLASHING CIRCULAR RED FLASHING RED LEFT ARROW FLASHING RED RIGHT ARROW FLASHING CIRCULAR AMBER FLASHING AMBER LEFT ARROW FLASHING AMBER RIGHT ARROW STEADY CIRCULAR GREEN
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		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  CHAIN LINK OR METAL FENCE RAILROAD TRACKS  WOOD FENCE  COMPOST FILTER TUBE  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	EXISTING	PROPOSED  SL  V V V  CW  SWL  WSWL  SYL  BWL  DWL  DYL	PAVEMENT ARROW - WHITE  LEGEND "ONLY" - WHITE  STOP LINE  YIELD LINES (2' BASE, 3' HEIGHT, 3' CENTER-TO-CENTER SPACING  WHITE - CROSSWALK (12" LINES, 10' O.C.; 12" LONGITUDINAL LINE, 4' O.C.)  6" SOLID WHITE LINE  12" WIDE SOLID WHITE LINE  6" SOLID YELLOW LINE  6" BROKEN WHITE LINE (3' LINES, 9' GAPS)  6" DOTTED WHITE LINE (3' LINES, 9' GAPS)  6" DOTTED WHITE LINE EXTENSION (2' LINES, 6' GAPS)	GIP GRAN GRAV GRD GV HDW HMA HOR HYD INV IRF JCT L LB LP LSA LT MAX MB MH	GALVANIZED IRON PIPE GRANITE GRAVEL GUARD GATE VALVE HEADWALL HOT MIX ASPHALT HORIZONTAL HYDRANT INVERT IRON PIPE FOUND JUNCTION LENGTH OF CURVE LEACH BASIN LIGHT POLE LANDSCAPE LEFT MAXIMUM MAILBOX MANHOLE	WIF WIP WM X-SECT  TRAFFIC SIGNATION  CAB CCVE DW FDW FR FRL FRR FY FYL FYR G GL GR GSL GSR	WROUGHT IRON PIPE WATER METER/WATER MAIN CROSS SECTION  GNAL  CABINET CLOSED CIRCUIT VIDEO EQUIPMENT STEADY DON'T WALK FLASHING DON'T WALK FLASHING CIRCULAR RED FLASHING RED LEFT ARROW FLASHING RED RIGHT ARROW FLASHING AMBER LEFT ARROW FLASHING AMBER LEFT ARROW STEADY CIRCULAR GREEN STEADY GREEN LEFT ARROW STEADY GREEN RIGHT ARROW STEADY GREEN SLASH LEFT ARROW
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		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 CHAIN LINK OR METAL FENCE RAILROAD TRACKS WOOD FENCE COMPOST FILTER TUBE 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 RAILROAD SIDELINE TOWN OR CITY BOUNDARY LINE	EXISTING   THE STATE OF THE STA	PROPOSED  The second se	PAVEMENT ARROW - WHITE  LEGEND "ONLY" - WHITE  STOP LINE  YIELD LINES (2' BASE, 3' HEIGHT, 3' CENTER-TO-CENTER SPACING  WHITE - CROSSWALK (12" LINES, 10' O.C.; 12" LONGITUDINAL LINE, 4' O.C.)  6" SOLID WHITE LINE  12" WIDE SOLID WHITE LINE  6" SOLID YELLOW LINE  6" BROKEN WHITE LINE  6" DOTTED WHITE LINE (3' LINES, 9' GAPS)  6" DOTTED WHITE LINE EXTENSION (2' LINES, 6' GAPS)  6" DOTTED WHITE LINE EXTENSION  6" DOTTED DOUBLE YELLOW LINE EXTENSION	GIP GRAN GRAV GRD GV HDW HMA HOR HYD INV IRF JCT L LB LP LSA LT MAX MB MH MHB MIN NIC NO	GALVANIZED IRON PIPE GRANITE GRAVEL GUARD GATE VALVE HEADWALL HOT MIX ASPHALT HORIZONTAL HYDRANT INVERT IRON PIPE FOUND JUNCTION LENGTH OF CURVE LEACH BASIN LIGHT POLE LANDSCAPE LEFT MAXIMUM MAILBOX MANHOLE MASSACHUSETTS HIGHWAY BOUND MINIMUM NOT IN CONTRACT NUMBER	WIF WIP WM X-SECT  TRAFFIC SIGN  CAB CCVE DW FDW FR FRL FRR FY FYL FYR G GL GR GSL GSR GV OL	WROUGHT IRON PIPE WATER METER/WATER MAIN CROSS SECTION  GNAL  CABINET CLOSED CIRCUIT VIDEO EQUIPMENT STEADY DON'T WALK FLASHING DON'T WALK FLASHING CIRCULAR RED FLASHING RED LEFT ARROW FLASHING RED RIGHT ARROW FLASHING CIRCULAR AMBER FLASHING AMBER LEFT ARROW FLASHING AMBER RIGHT ARROW STEADY CIRCULAR GREEN STEADY GREEN LEFT ARROW STEADY GREEN SLASH LEFT ARROW STEADY GREEN SLASH LEFT ARROW STEADY GREEN SLASH RIGHT ARROW STEADY GREEN VERTICAL ARROW OVERLAP
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- X		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 CHAIN LINK OR METAL FENCE RAILROAD TRACKS WOOD FENCE COMPOST FILTER TUBE 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 PROPOSED WHEELCHAIR RAMP NUMBER	EXISTING   THE STATE OF THE STA	PROPOSED  SU SU SWL SWL SYL BWL DWL DYL DWLEX DDYLEX DBWL	PAVEMENT ARROW - WHITE  LEGEND "ONLY" - WHITE  STOP LINE  YIELD LINES (2' BASE, 3' HEIGHT, 3' CENTER-TO-CENTER SPACING  WHITE - CROSSWALK (12" LINES, 10' O.C.; 12" LONGITUDINAL LINE, 4' O.C.)  6" SOLID WHITE LINE  12" WIDE SOLID WHITE LINE  6" SOLID YELLOW LINE  6" BROKEN WHITE LINE  6" DOTTED WHITE LINE (3' LINES, 9' GAPS)  6" DOTTED YELLOW LINE  6" DOTTED WHITE LINE EXTENSION (2' LINES, 6' GAPS)  6" DOTTED YELLOW LINE EXTENSION  6" DOTTED DOUBLE YELLOW LINE EXTENSION  2-6" DOUBLE WHITE LINE  2-6" DOUBLE YELLOW LINE (10" O.C.)	GIP GRAN GRAV GRD GV HDW HMA HOR HYD INV IRF JCT L LB LP LSA LT MAX MB MH MHB MIN NIC NO PC PCC PGL PI	GALVANIZED IRON PIPE GRANITE GRAVEL GUARD GATE VALVE HEADWALL HOT MIX ASPHALT HORIZONTAL HYDRANT INVERT IRON PIPE FOUND JUNCTION LENGTH OF CURVE LEACH BASIN LIGHT POLE LANDSCAPE LEFT MAXIMUM MAILBOX MANHOLE MASSACHUSETTS HIGHWAY BOUND MINIMUM NOT IN CONTRACT NUMBER POINT OF CURVATURE PROFILE GRADE LINE POINT OF INTERSECTION	WIF WIP WM X-SECT  TRAFFIC SIGN  CAB CCVE DW FDW FR FRL FRR FY FYL FYR G GL GR GSL GSR GV OL PED PTZ R RL RR	WROUGHT IRON PIPE WATER METER/WATER MAIN CROSS SECTION  GNAL  CABINET CLOSED CIRCUIT VIDEO EQUIPMENT STEADY DON'T WALK FLASHING DON'T WALK FLASHING CIRCULAR RED FLASHING RED LEFT ARROW FLASHING RED RIGHT ARROW FLASHING CIRCULAR AMBER FLASHING AMBER LEFT ARROW FLASHING AMBER RIGHT ARROW STEADY CIRCULAR GREEN STEADY GREEN LEFT ARROW STEADY GREEN RIGHT ARROW STEADY GREEN SLASH LEFT ARROW STEADY GREEN SLASH RIGHT ARROW STEADY GREEN VERTICAL ARROW OVERLAP PEDESTRIAN PAN, TILE, ZOOM STEADY RED LEFT ARROW STEADY CIRCULAR RED STEADY RED LEFT ARROW STEADY RED LEFT ARROW
- X		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 CHAIN LINK OR METAL FENCE RAILROAD TRACKS WOOD FENCE COMPOST FILTER TUBE 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 PROPOSED WHEELCHAIR RAMP NUMBER	EXISTING   THE STATE OF THE STA	PROPOSED  SU SU SWL WSWL SYL BWL DWL DVL DVL DVL DVLEX DBYL DBYL DBYL	PAVEMENT ARROW - WHITE  LEGEND "ONLY" - WHITE  STOP LINE  YIELD LINES (2' BASE, 3' HEIGHT, 3' CENTER-TO-CENTER SPACING  WHITE - CROSSWALK (12" LINES, 10' O.C.; 12" LONGITUDINAL LINE, 4' O.C.)  6" SOLID WHITE LINE  12" WIDE SOLID WHITE LINE  6" SOLID YELLOW LINE  6" BROKEN WHITE LINE (3' LINES, 9' GAPS)  6" DOTTED WHITE LINE (3' LINES, 9' GAPS)  6" DOTTED WHITE LINE EXTENSION (2' LINES, 6' GAPS)  6" DOTTED WHITE LINE EXTENSION  6" DOTTED DOUBLE YELLOW LINE EXTENSION  2-6" DOUBLE WHITE LINE  2-6" DOUBLE YELLOW LINE (10" O.C.)  12" SOLID WHITE GORE LINE (10' O.C. @45°)	GIP GRAN GRAV GRD GV HDW HMA HOR HYD INV IRF JCT L LB LP LSA LT MAX MB MH MHB MIN NIC NO PC PCC PGL PI POC	GALVANIZED IRON PIPE GRANITE GRAVEL GUARD GATE VALVE HEADWALL HOT MIX ASPHALT HORIZONTAL HYDRANT INVERT IRON PIPE FOUND JUNCTION LENGTH OF CURVE LEACH BASIN LIGHT POLE LANDSCAPE LEFT MAXIMUM MAILBOX MANHOLE MASSACHUSETTS HIGHWAY BOUND MINIMUM NOT IN CONTRACT NUMBER POINT OF CURVATURE POINT OF COMPOUND CURVATURE PROFILE GRADE LINE POINT OF INTERSECTION POINT ON CURVE	WIF WIP WM X-SECT  TRAFFIC SIGN  CAB CCVE DW FDW FR FRL FRR FY FYL FYR G GL GR GSL GSR GV OL PED PTZ R RL RR TR SIG	WROUGHT IRON PIPE WATER METER/WATER MAIN CROSS SECTION  GNAL  CABINET CLOSED CIRCUIT VIDEO EQUIPMENT STEADY DON'T WALK FLASHING DON'T WALK FLASHING CIRCULAR RED FLASHING RED LEFT ARROW FLASHING RED RIGHT ARROW FLASHING AMBER LEFT ARROW FLASHING AMBER RIGHT ARROW STEADY CIRCULAR GREEN STEADY GREEN LEFT ARROW STEADY GREEN SIGHT ARROW STEADY GREEN SLASH LEFT ARROW STEADY GREEN SLASH RIGHT ARROW STEADY GREEN SLASH RIGHT ARROW STEADY GREEN VERTICAL ARROW OVERLAP PEDESTRIAN PAN, TILE, ZOOM STEADY CIRCULAR RED STEADY CIRCULAR RED STEADY RED RIGHT ARROW STEADY RED RIGHT ARROW TRAFFIC SIGNAL TRAFFIC SIGNAL TRAFFIC SIGNAL CONDUIT STEADY WALK
		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 CHAIN LINK OR METAL FENCE RAILROAD TRACKS WOOD FENCE COMPOST FILTER TUBE 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 PROPOSED WHEELCHAIR RAMP NUMBER	EXISTING   THE STATE OF THE STA	PROPOSED  SU SU SWL SWL SYL BWL DWL DYL DWLEX DDYLEX DBWL	PAVEMENT ARROW - WHITE  LEGEND "ONLY" - WHITE  STOP LINE  YIELD LINES (2' BASE, 3' HEIGHT, 3' CENTER-TO-CENTER SPACING  WHITE - CROSSWALK (12" LINES, 10' O.C.; 12" LONGITUDINAL LINE, 4' O.C.)  6" SOLID WHITE LINE  12" WIDE SOLID WHITE LINE  6" SOLID YELLOW LINE  6" BROKEN WHITE LINE  6" DOTTED WHITE LINE (3' LINES, 9' GAPS)  6" DOTTED YELLOW LINE  6" DOTTED WHITE LINE EXTENSION (2' LINES, 6' GAPS)  6" DOTTED YELLOW LINE EXTENSION  6" DOTTED DOUBLE YELLOW LINE EXTENSION  2-6" DOUBLE WHITE LINE  2-6" DOUBLE WHITE LINE  12" SOLID WHITE GORE LINE (10" O.C.)	GIP GRAN GRAV GRD GV HDW HMA HOR HYD INV IRF JCT L LB LP LSA LT MAX MB MH MHB MIN NIC NO PC PCC PGL PI	GALVANIZED IRON PIPE GRANITE GRAVEL GUARD GATE VALVE HEADWALL HOT MIX ASPHALT HORIZONTAL HYDRANT INVERT IRON PIPE FOUND JUNCTION LENGTH OF CURVE LEACH BASIN LIGHT POLE LANDSCAPE LEFT MAXIMUM MAILBOX MANHOLE MASSACHUSETTS HIGHWAY BOUND MINIMUM NOT IN CONTRACT NUMBER POINT OF CURVATURE PROFILE GRADE LINE POINT OF INTERSECTION	WIF WIP WM X-SECT  TRAFFIC SIGN  CAB CCVE DW FDW FR FRL FRR FY FYL FYR G GL GR GSL GSR GV OL PED PTZ R RL RR TR SIG	WROUGHT IRON PIPE WATER METER/WATER MAIN CROSS SECTION  GNAL  CABINET CLOSED CIRCUIT VIDEO EQUIPMENT STEADY DON'T WALK FLASHING DON'T WALK FLASHING CIRCULAR RED FLASHING RED LEFT ARROW FLASHING RED RIGHT ARROW FLASHING AMBER LEFT ARROW FLASHING AMBER LEFT ARROW STEADY CIRCULAR GREEN STEADY GREEN LEFT ARROW STEADY GREEN SIGHT ARROW STEADY GREEN SLASH LEFT ARROW STEADY GREEN SLASH RIGHT ARROW STEADY GREEN VERTICAL ARROW OVERLAP PEDESTRIAN PAN, TILE, ZOOM STEADY CIRCULAR RED STEADY RED LEFT ARROW STEADY CIRCULAR RED STEADY CIRCULAR RED STEADY RED LEFT ARROW STEADY RED RIGHT ARROW TRAFFIC SIGNAL TRAFFIC SIGNAL CONDUIT

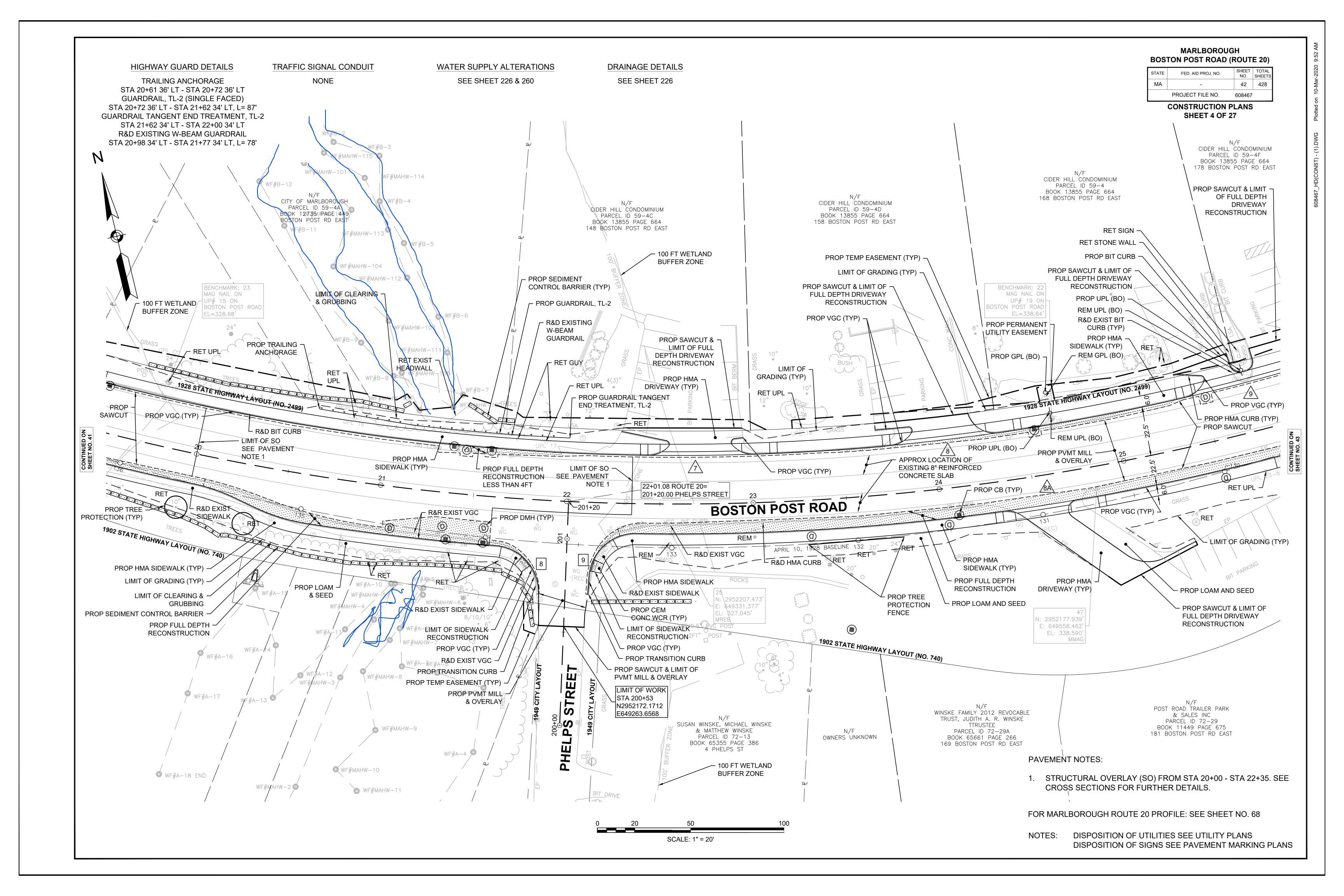


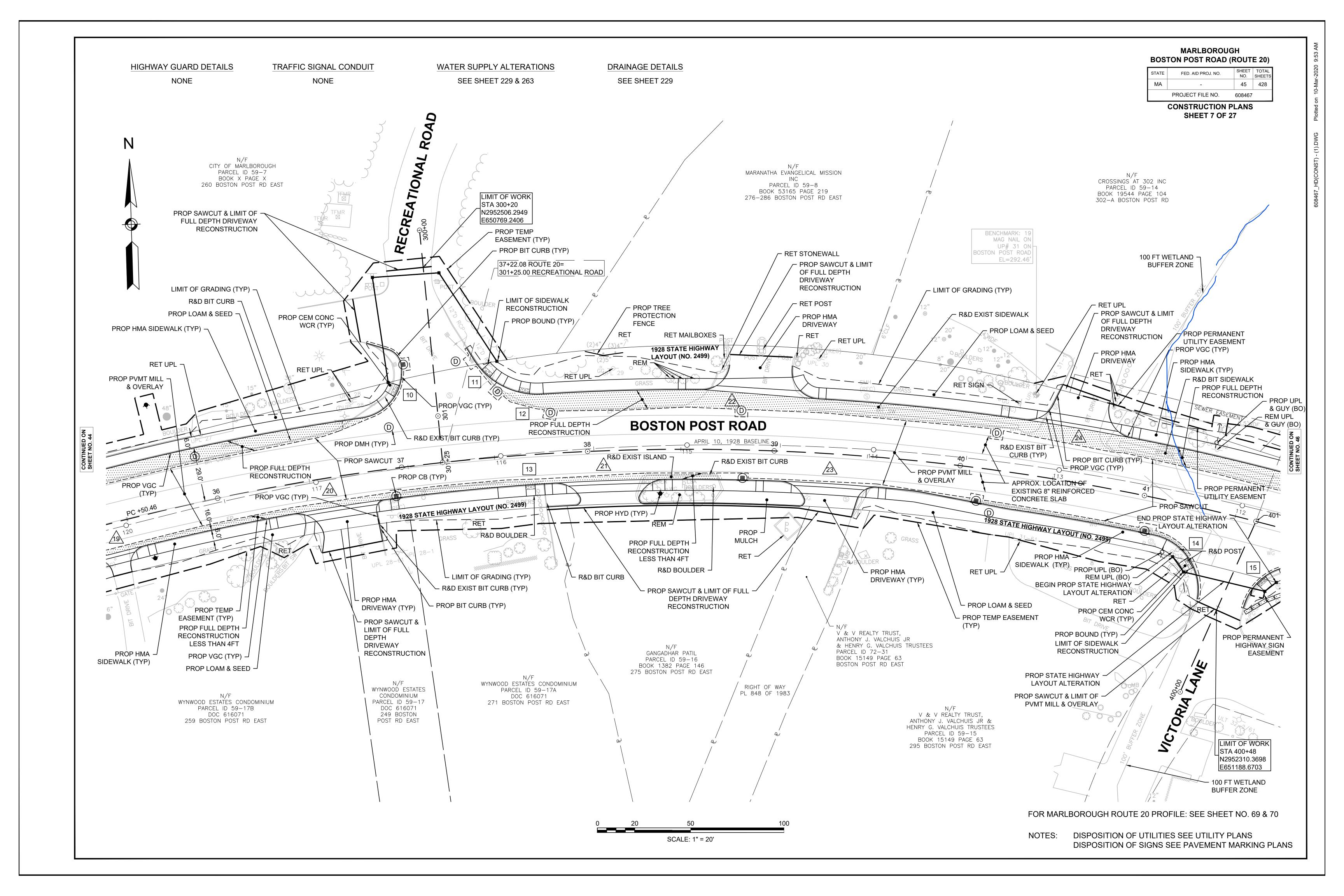


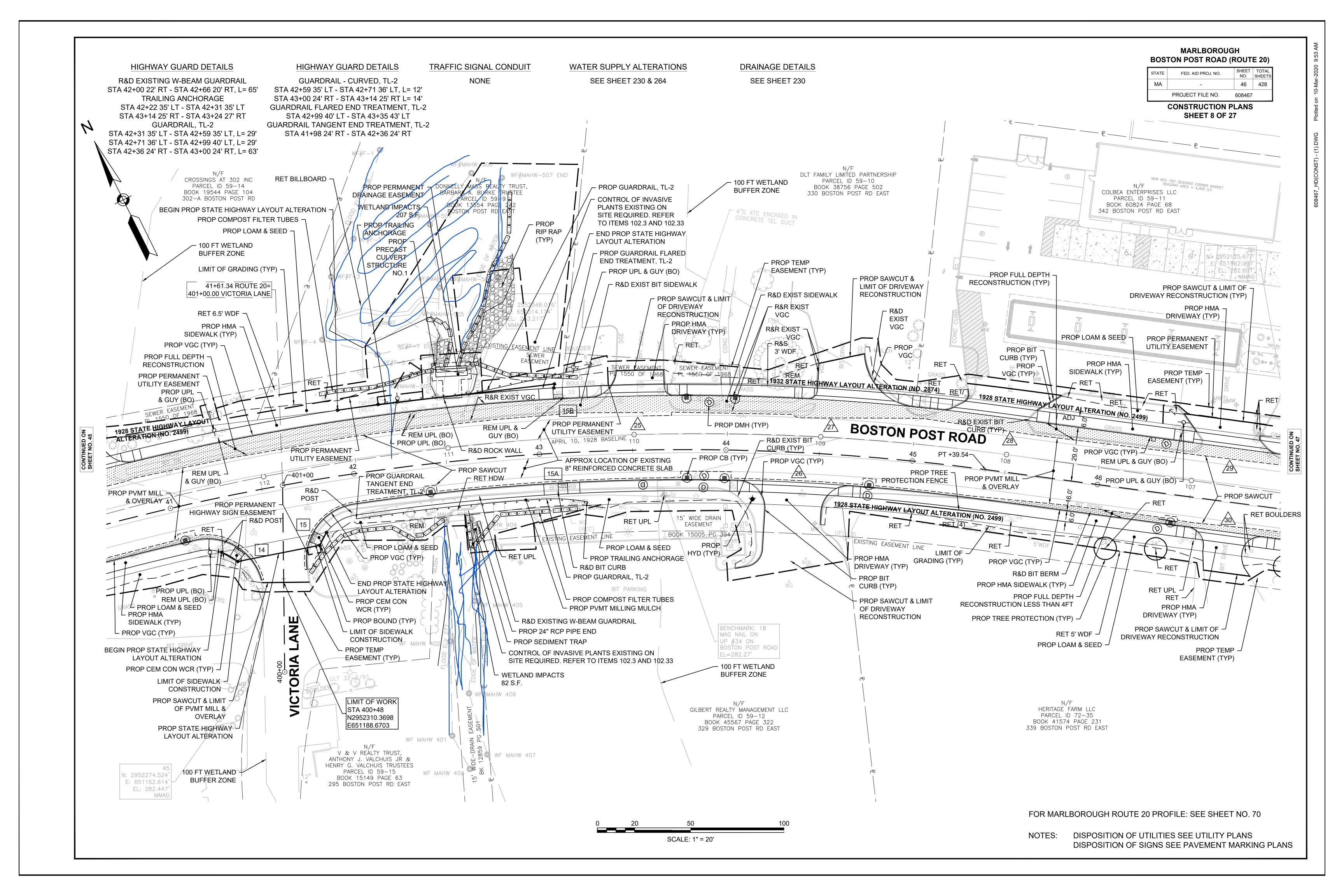


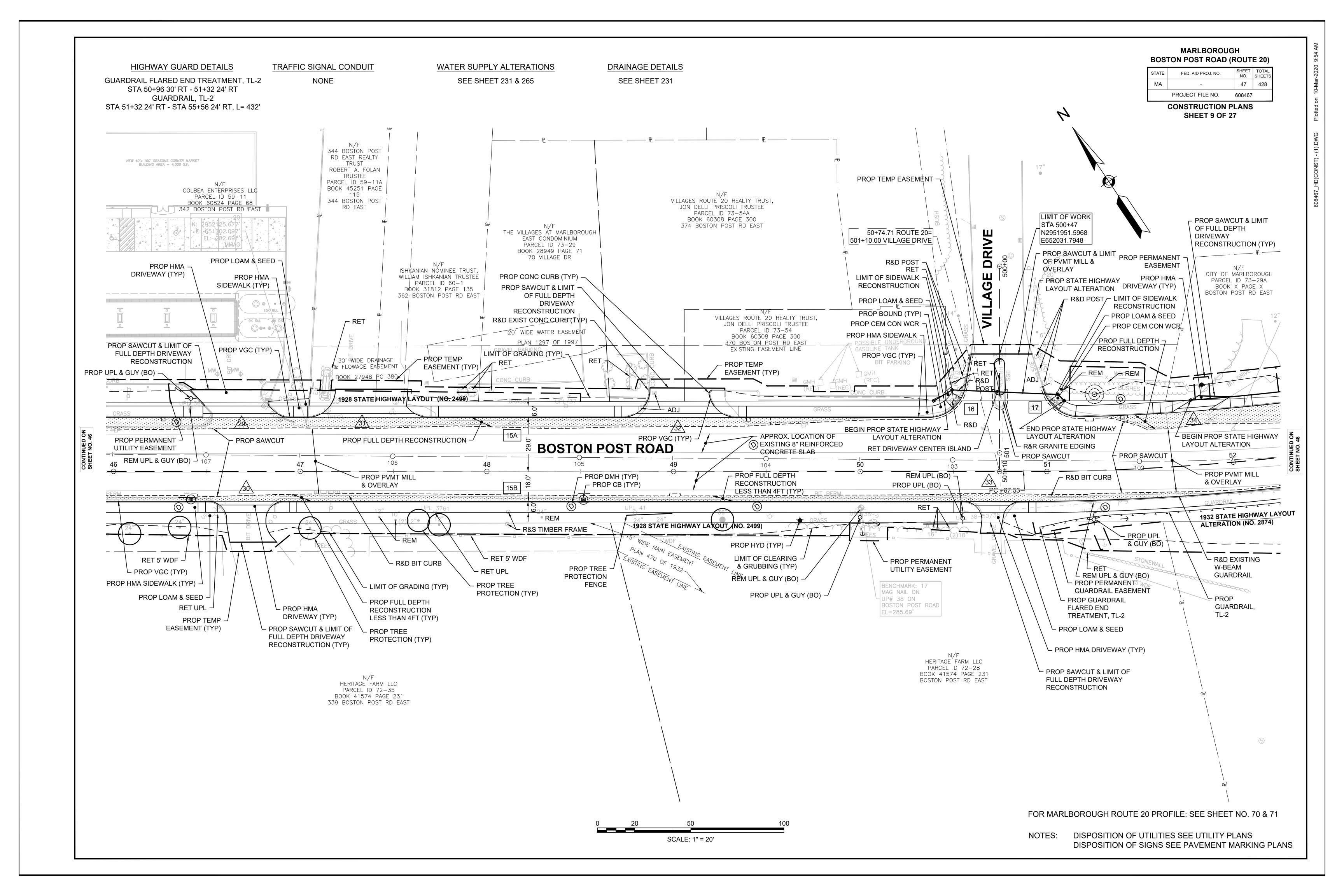


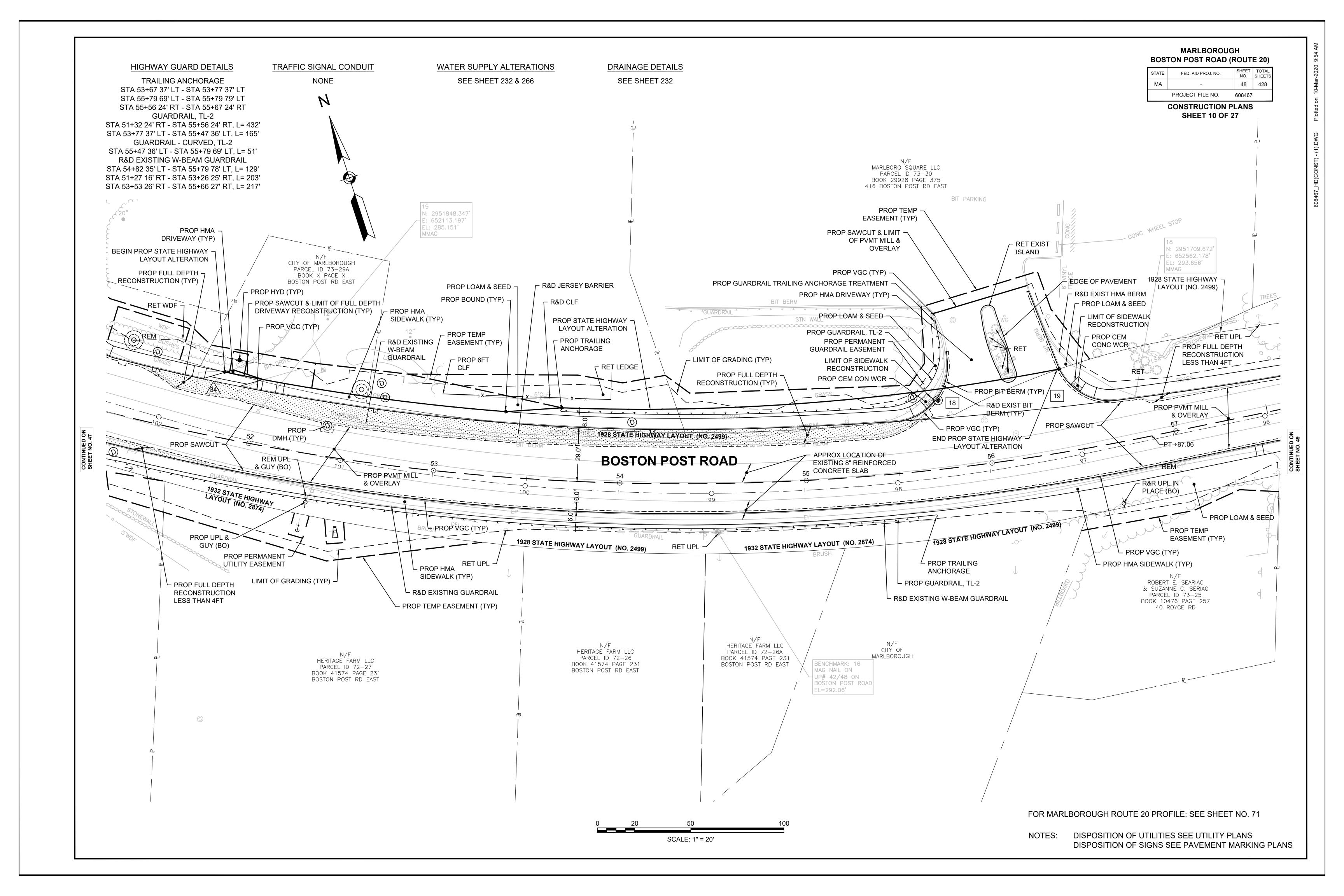


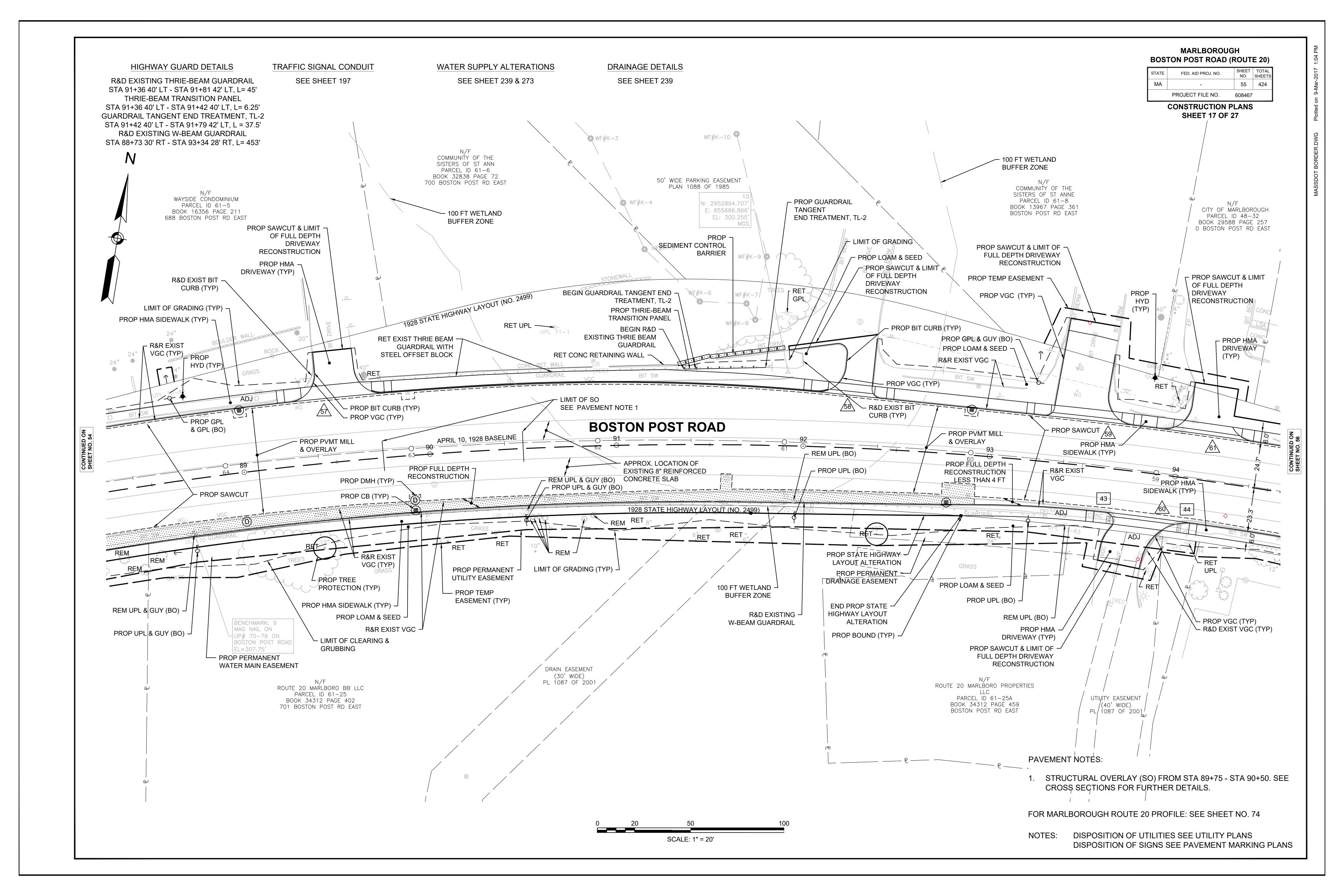


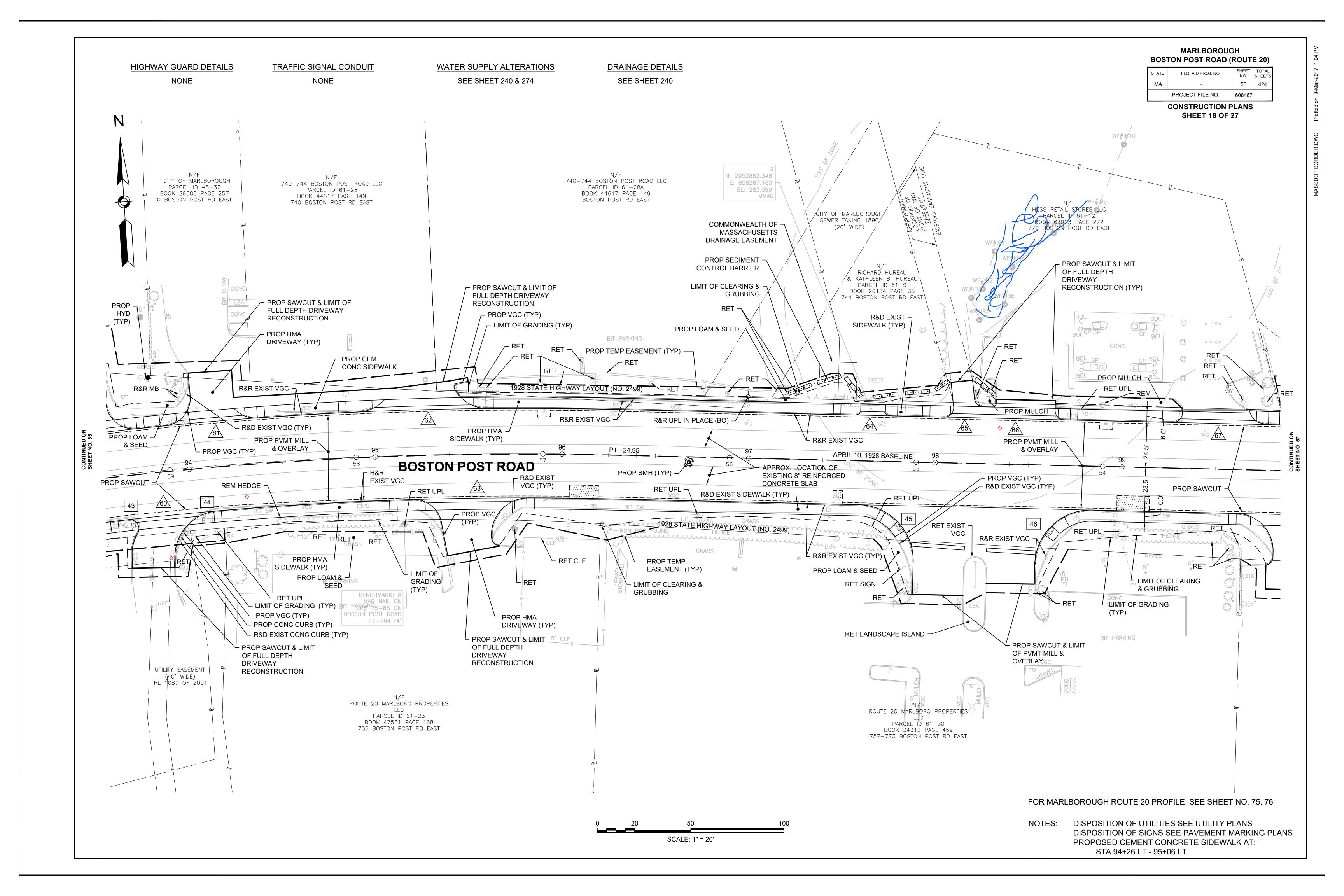


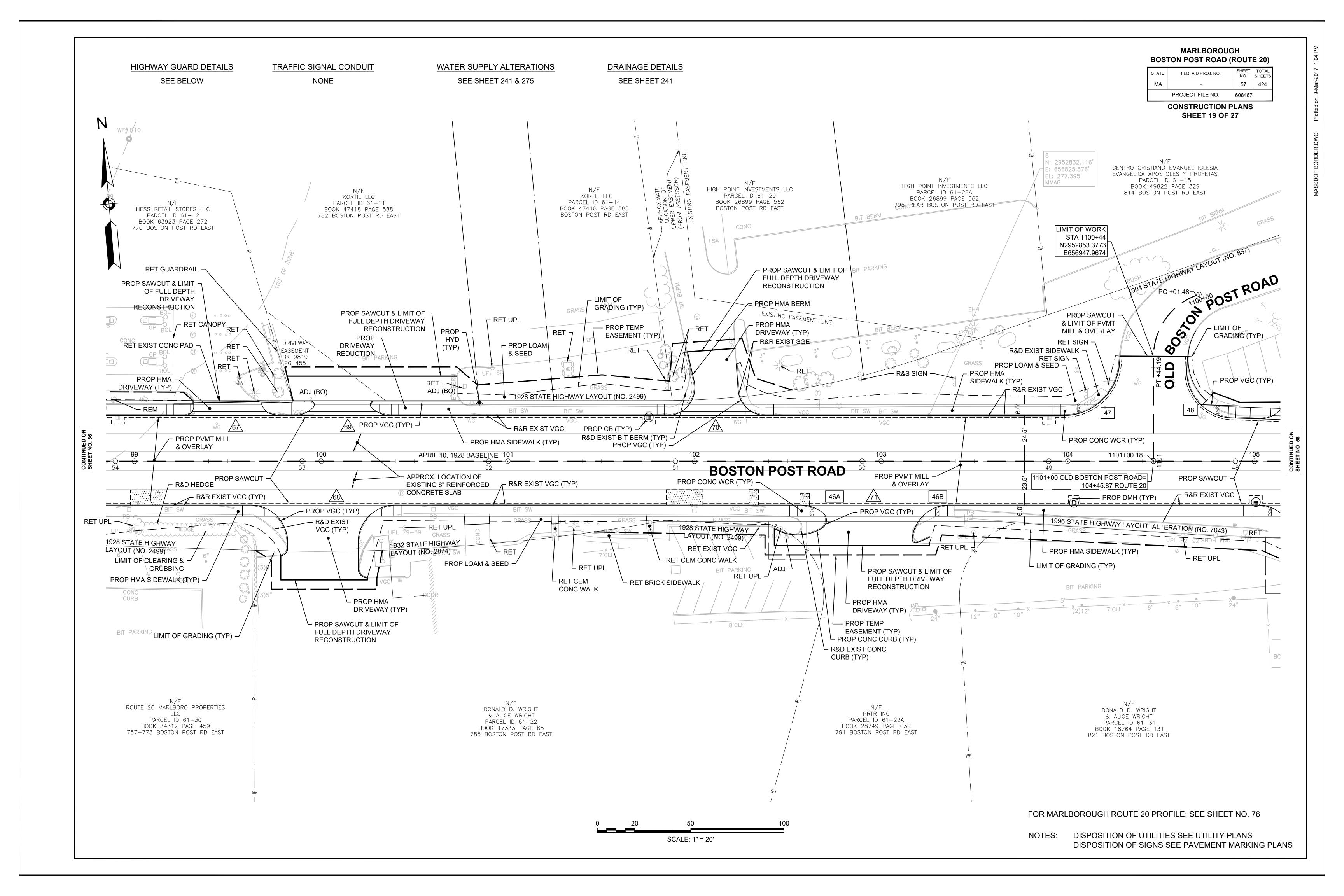


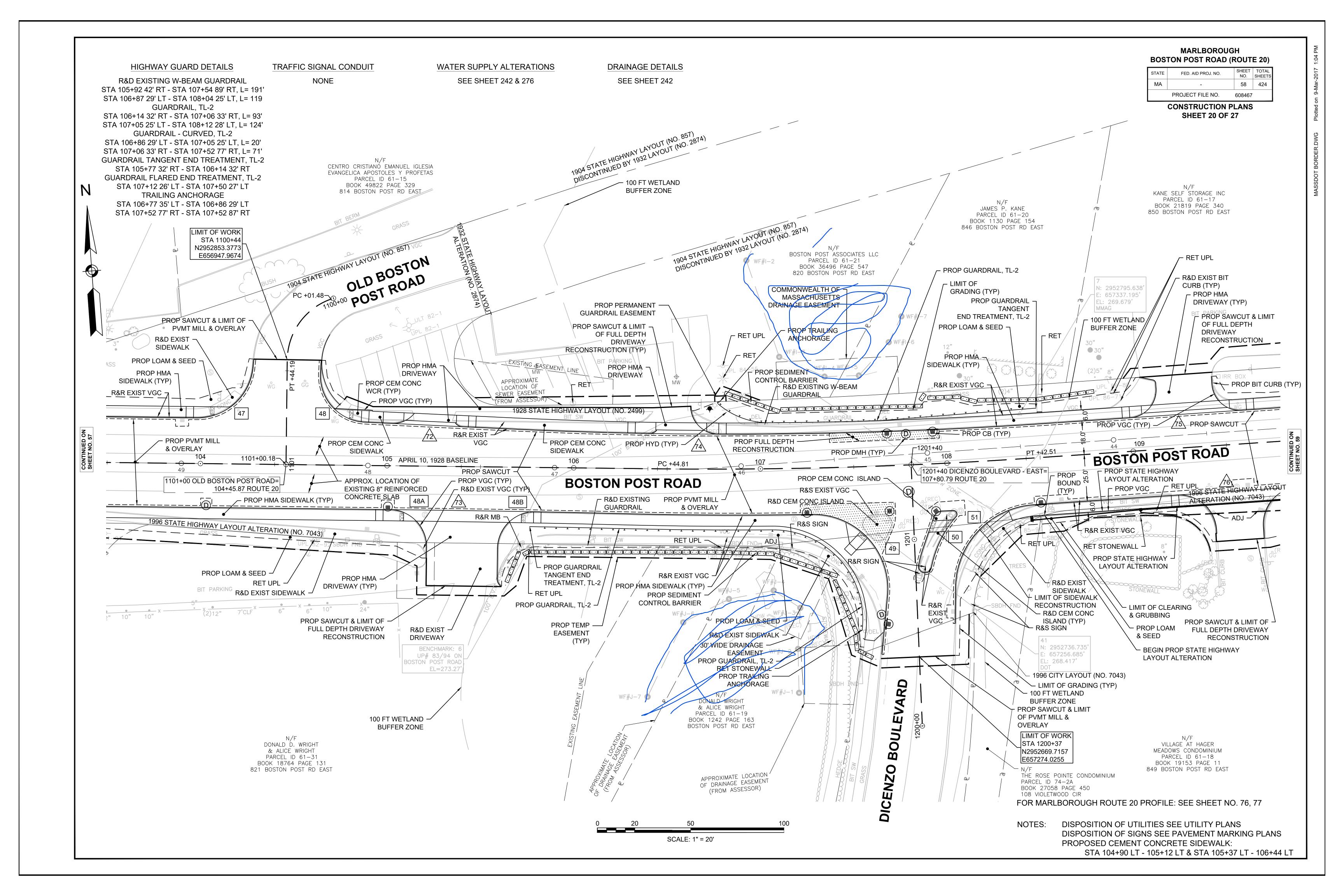


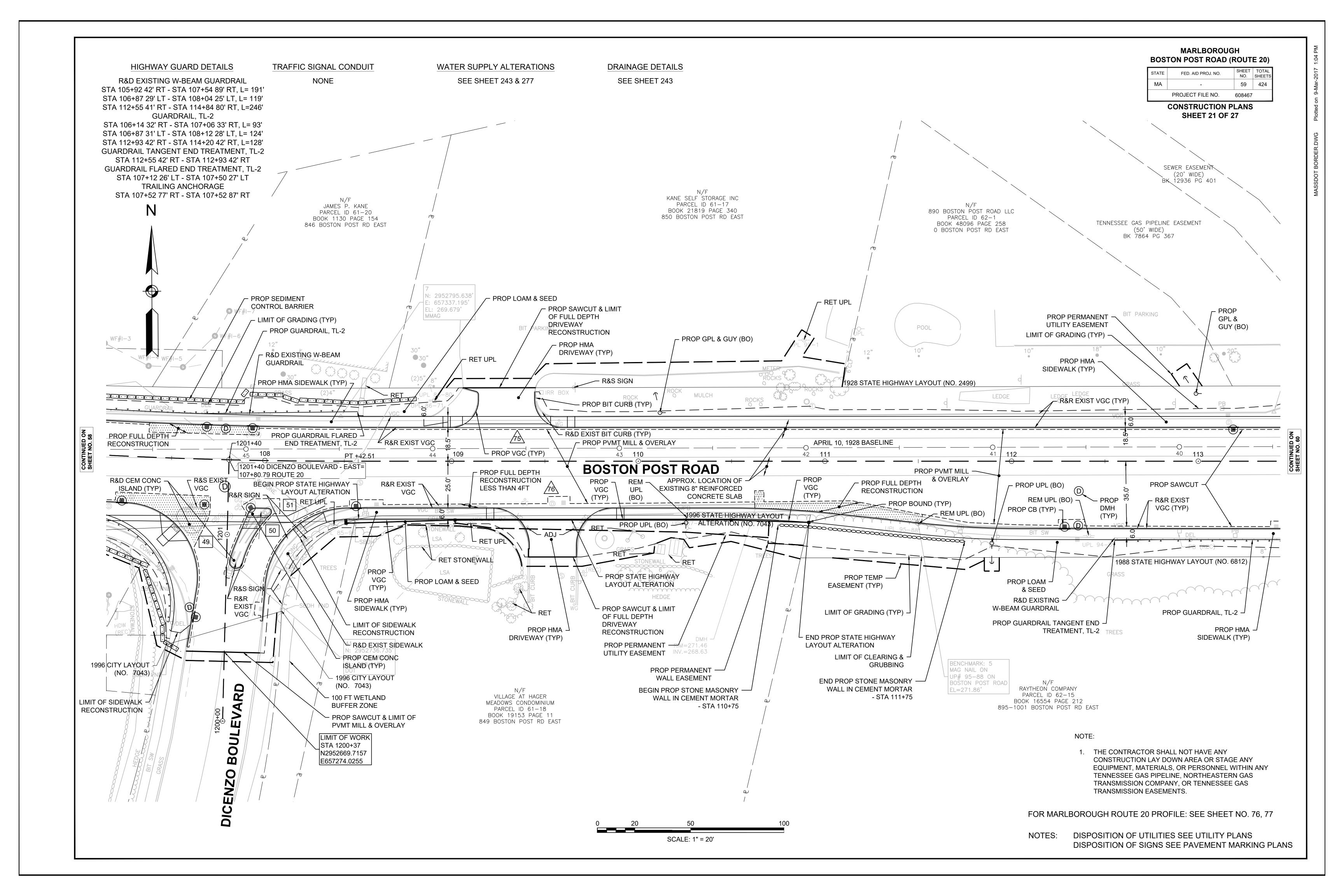


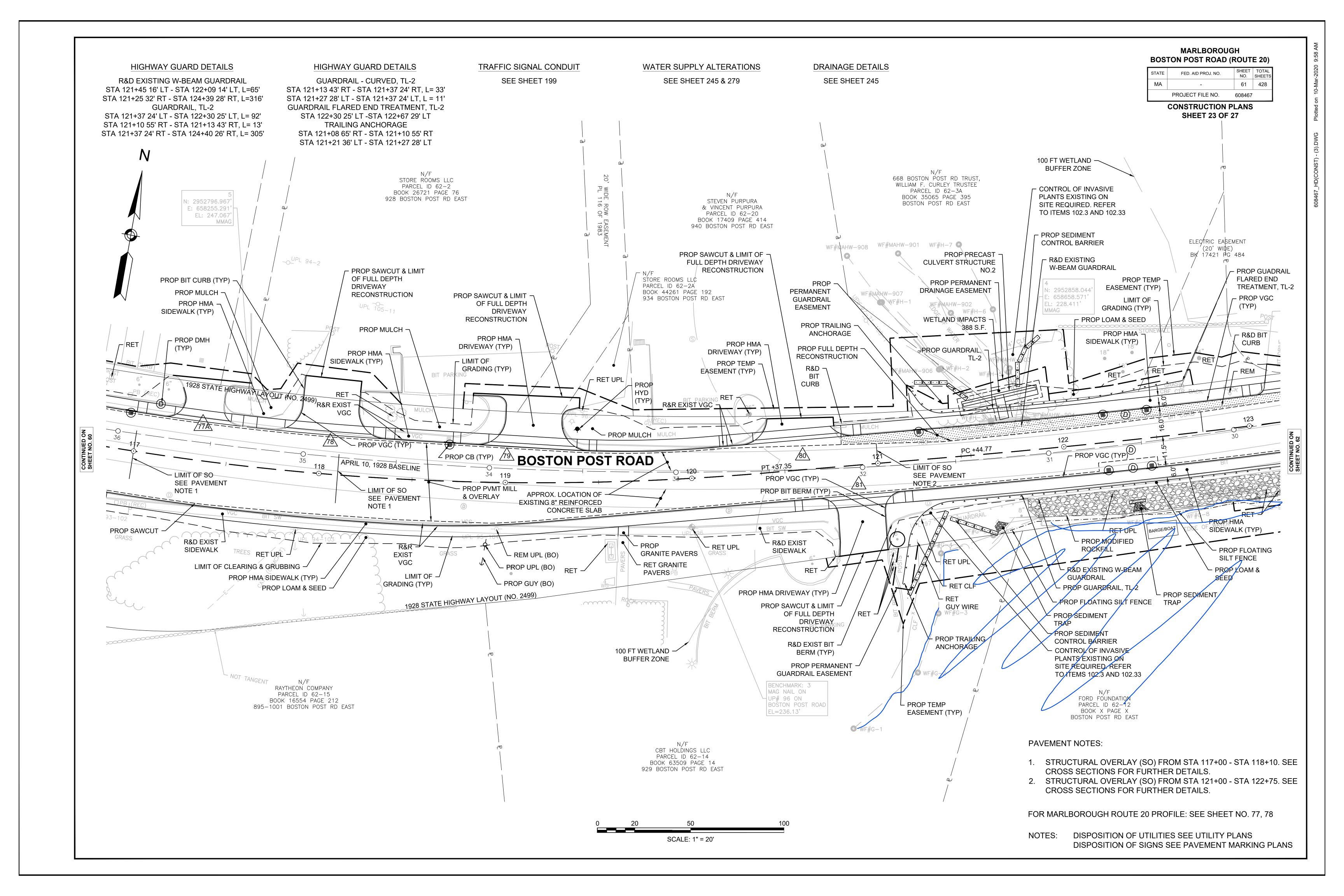


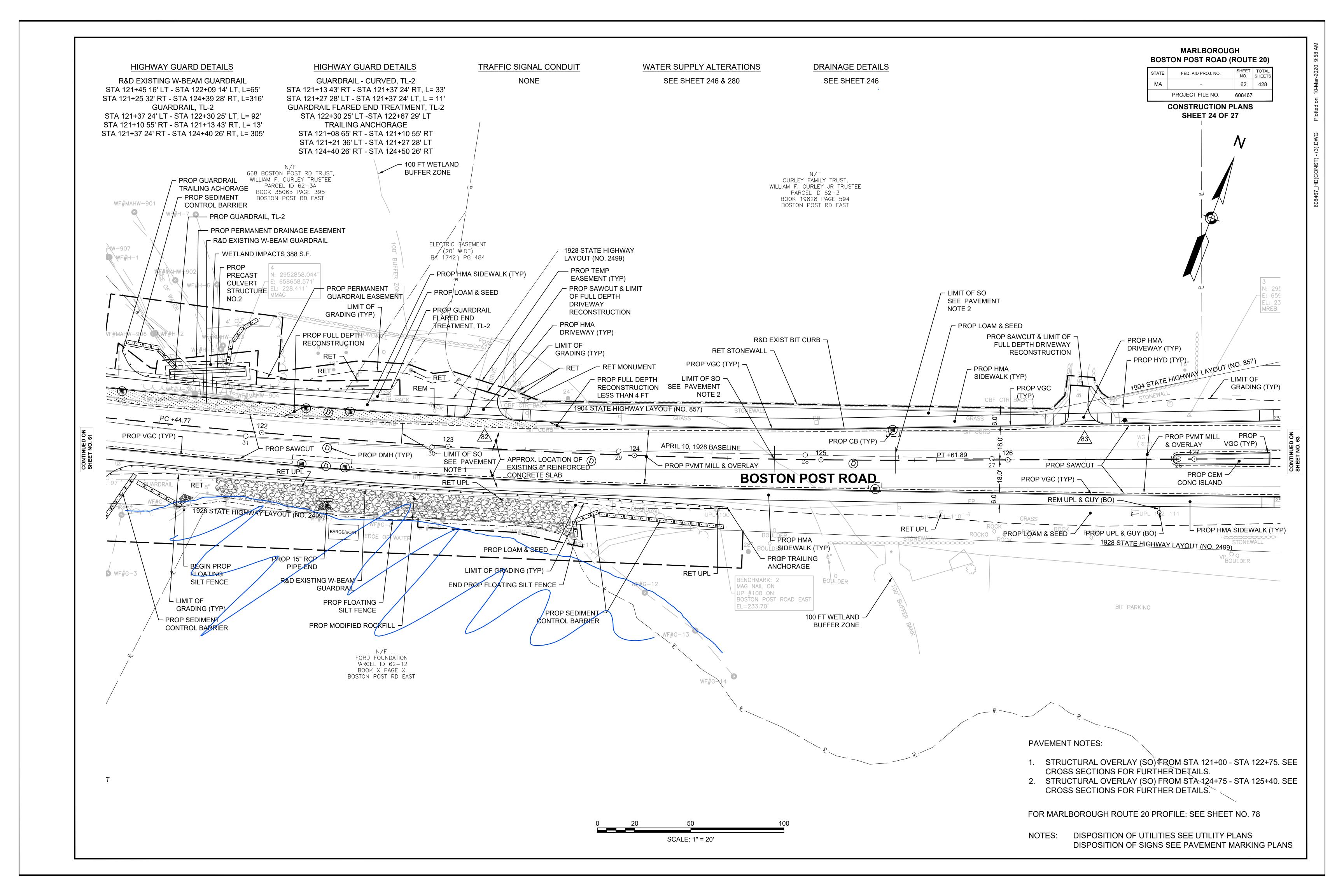


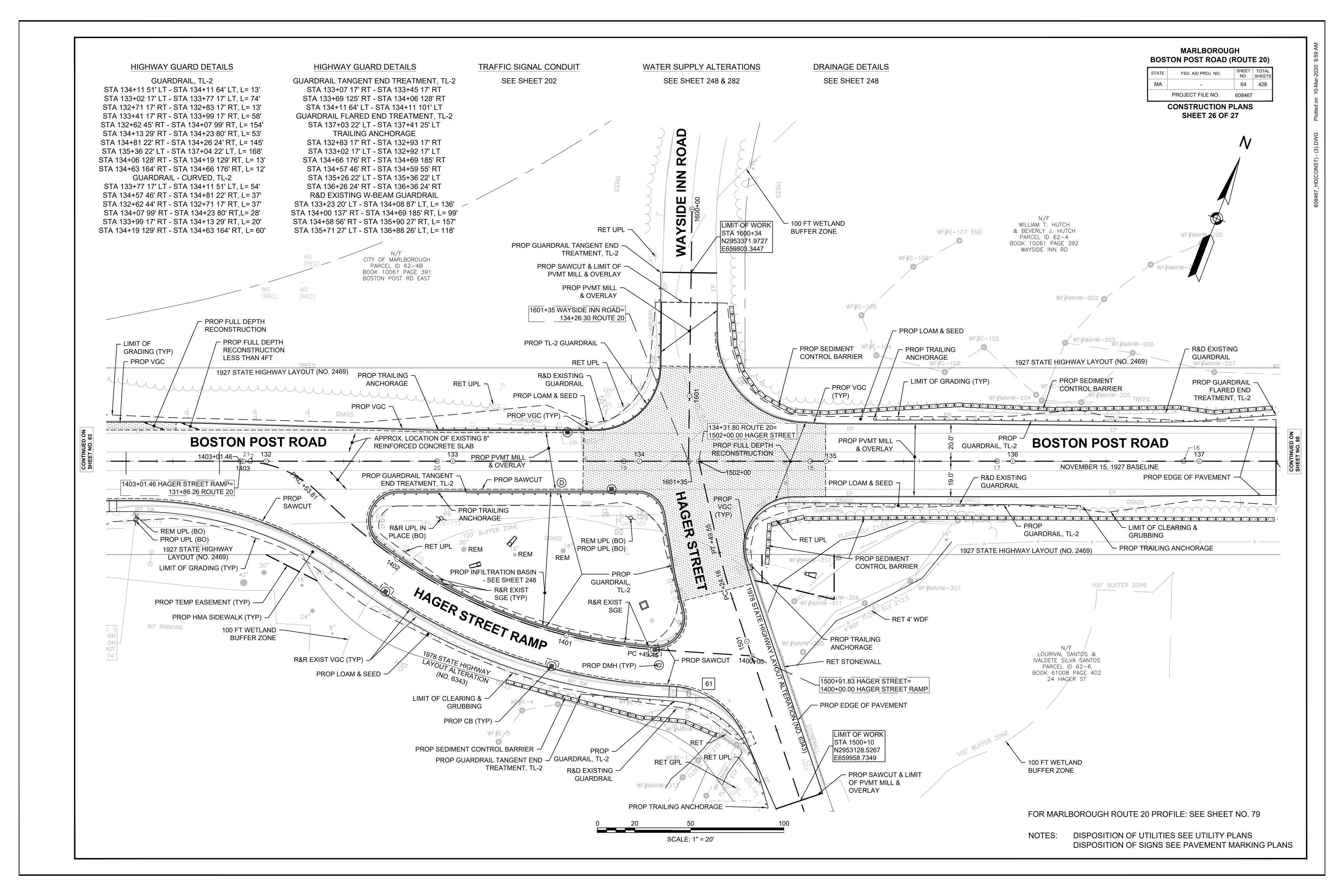


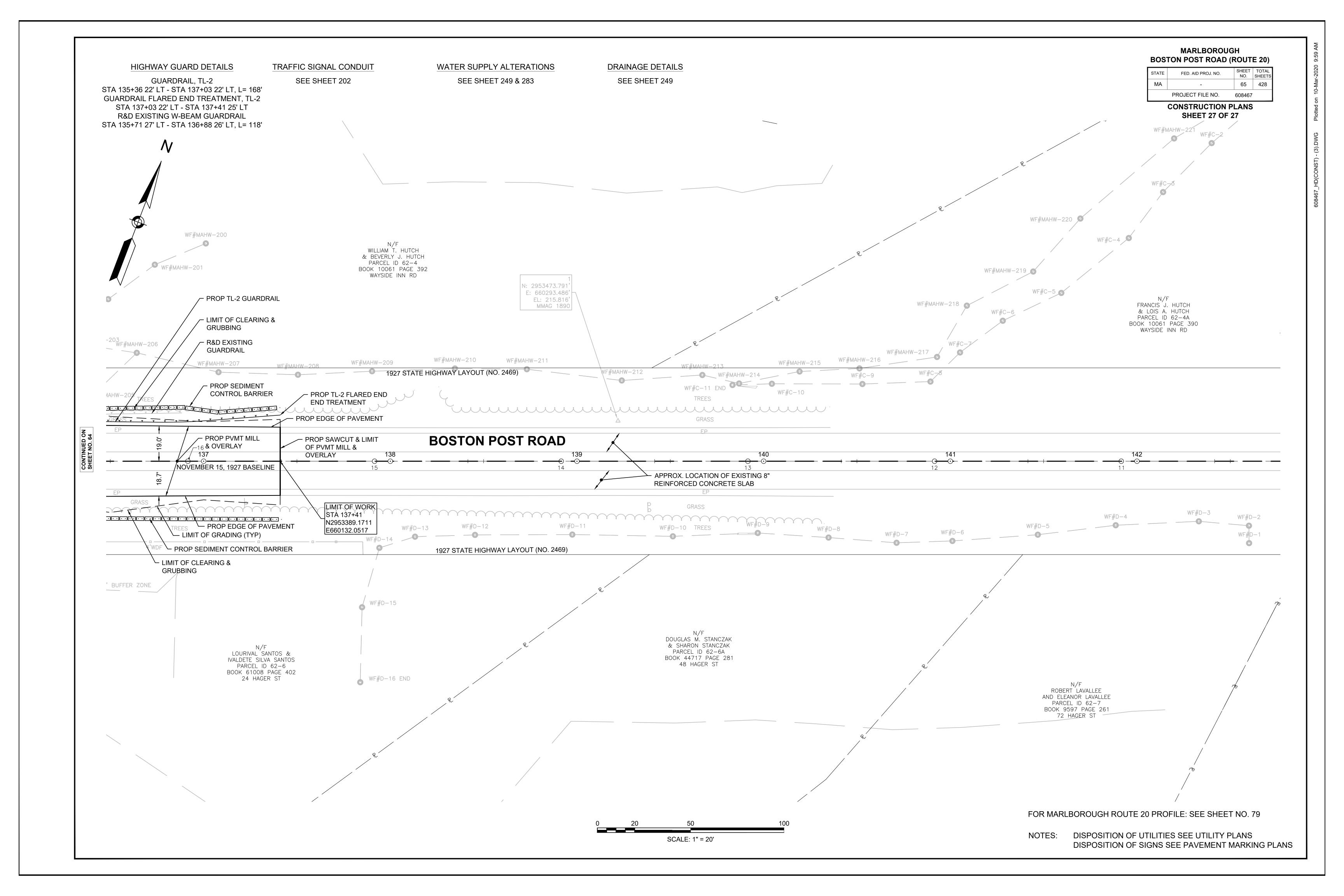


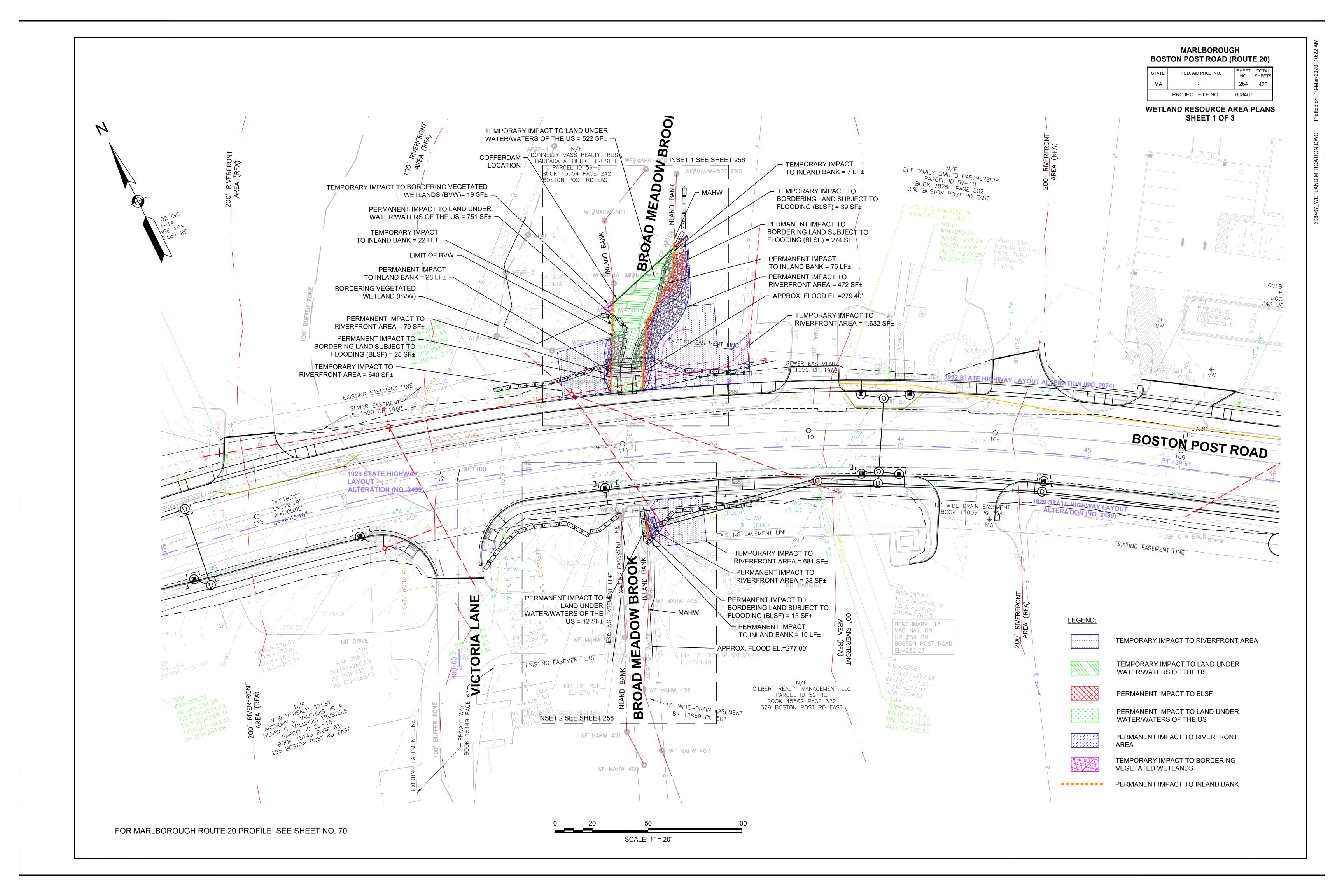


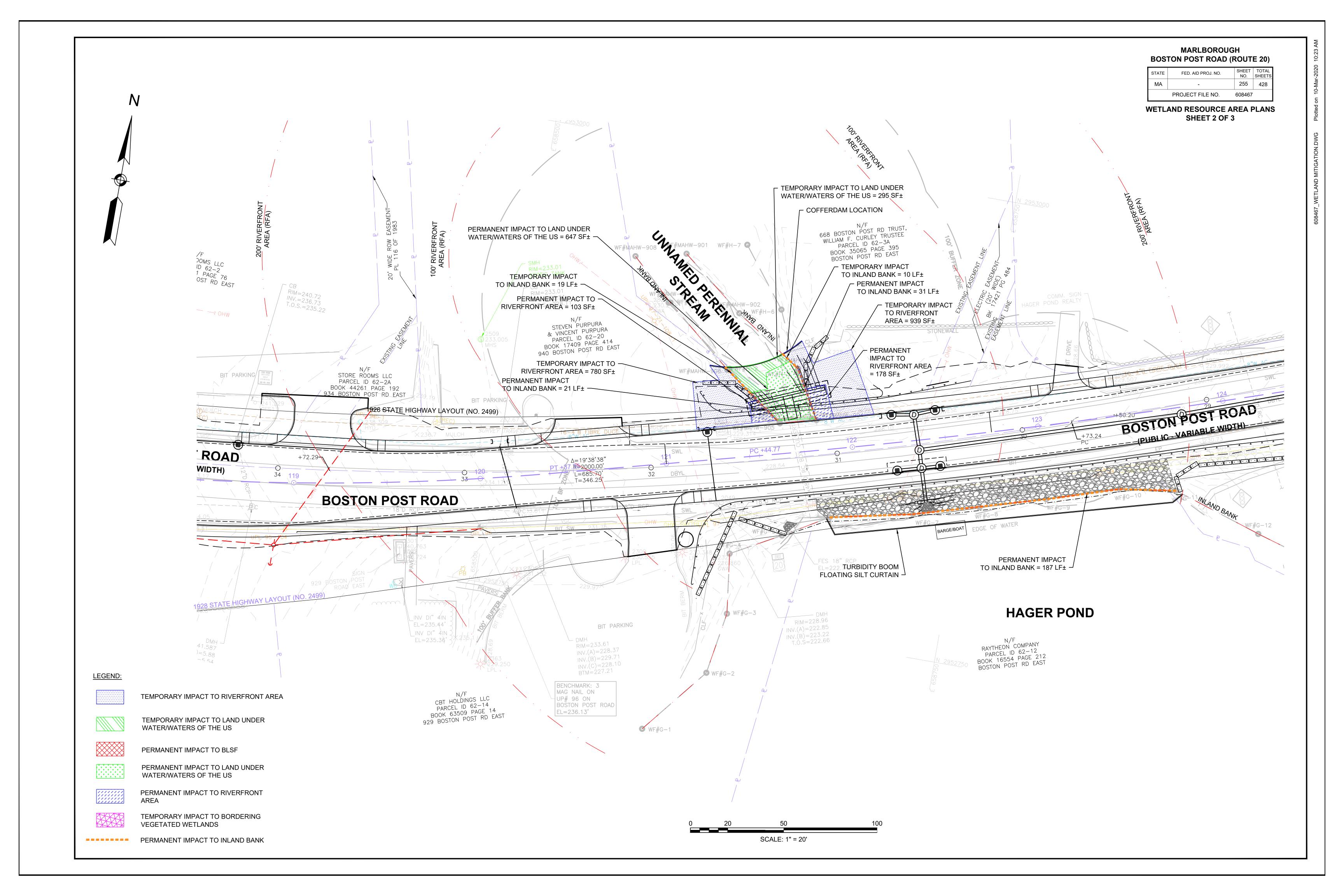


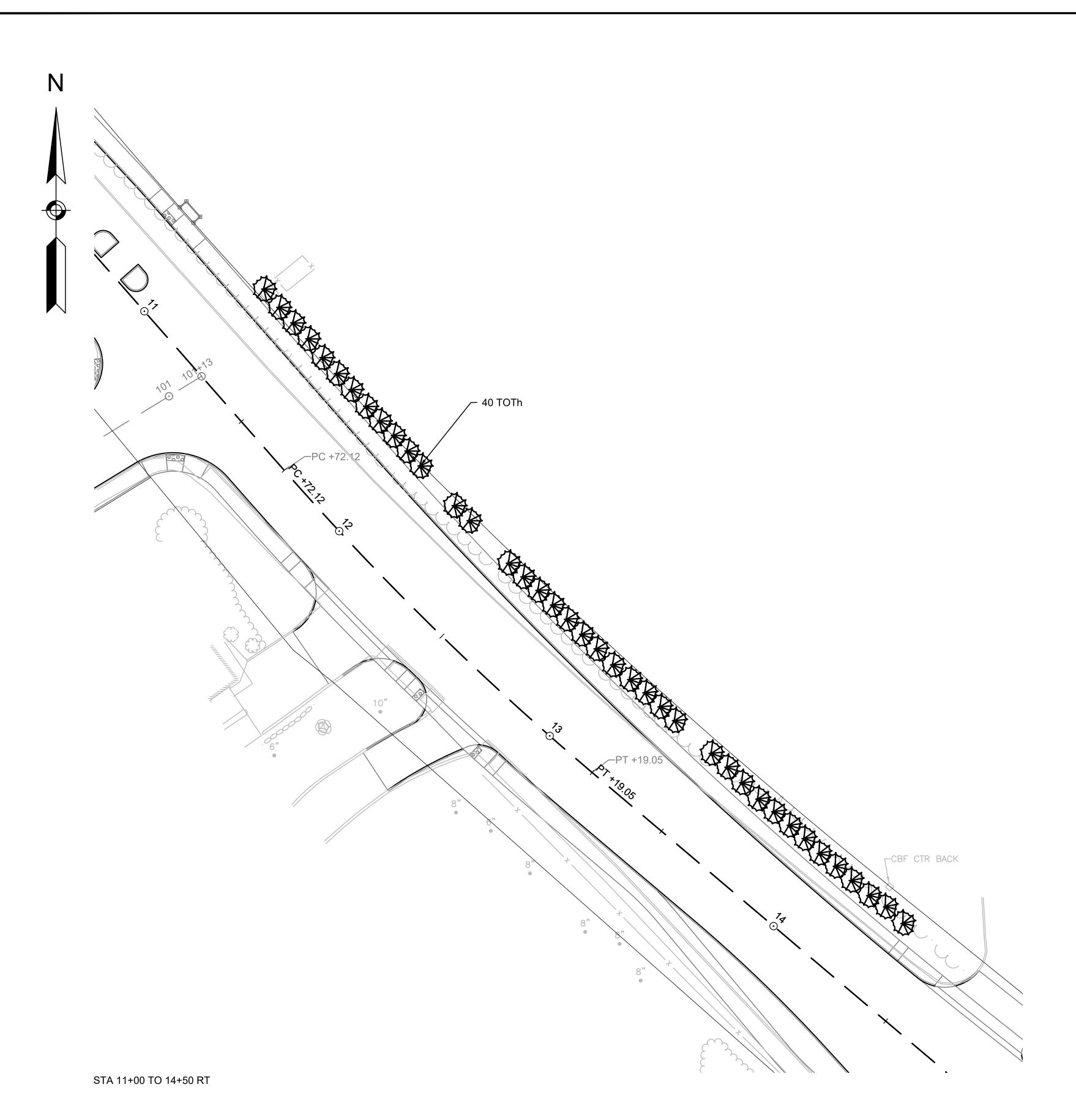








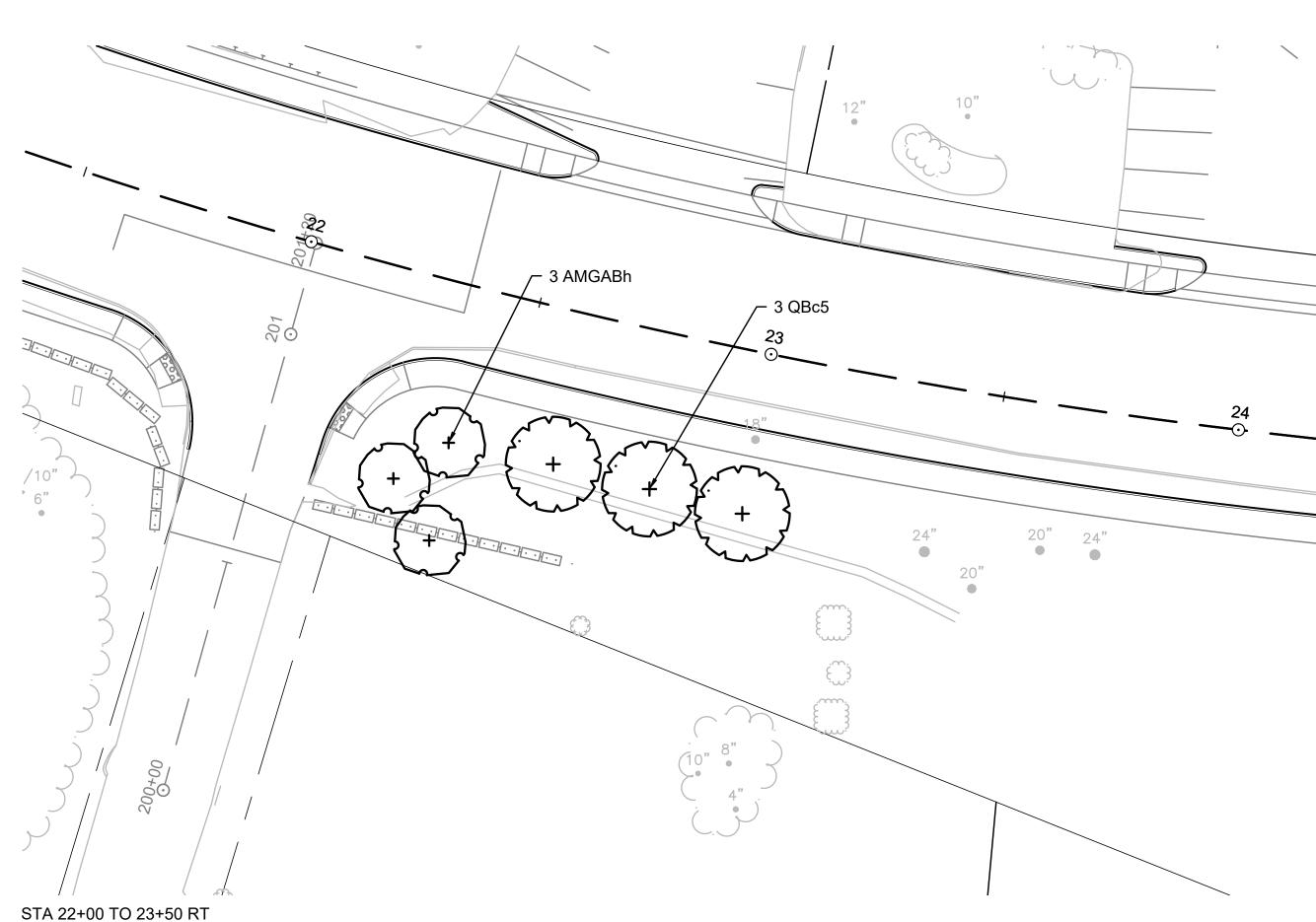




MARLBOROUGH BOSTON POST ROAD (ROUTE 20)

	PROJECT FILE NO.	608467	
MA	-	284	428
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS

LANDSCAPE PLANS - ZONE A



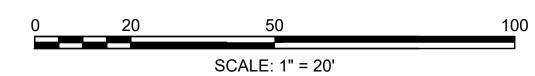
### PLANTING NOTES

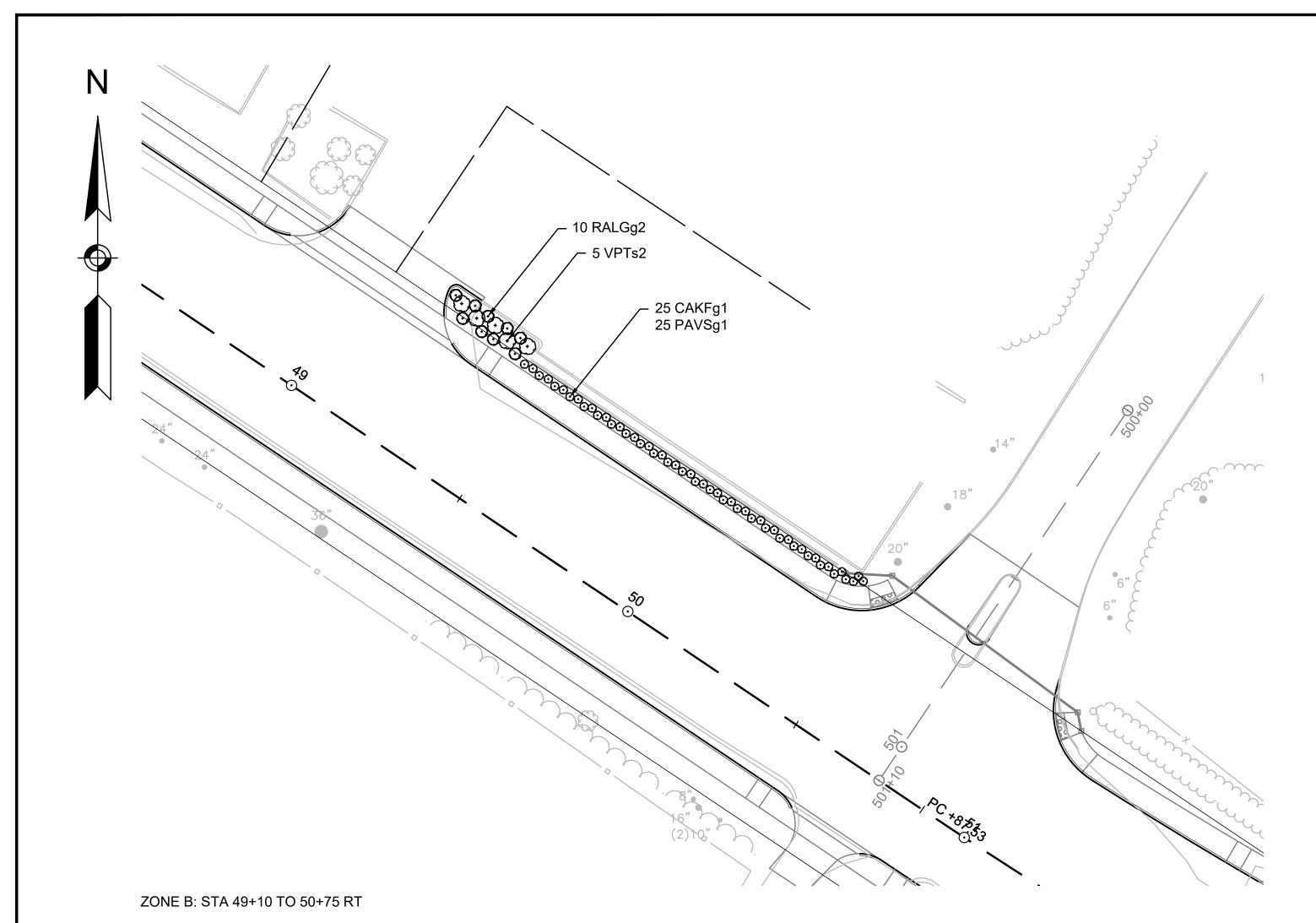
- 1. CONTRACTOR SHALL HAVE ALL SUBSURFACE UTILITIES MARKED PRIOR TO THE START OF WORK.
- 2. PLANT LOCATIONS ARE APPROXIMATE. PRIOR TO PLANTING, LOCATION OF ALL PLANT MATERIAL WILL BE APPROVED BY THE RESIDENT ENGINEER AND THE LANDSCAPE ARCHITECT.
- 3. ALL PLANT MATERIAL WILL HAVE TAGS INDICATING COMMON NAME, BOTANICAL NAME, & SIZE.
- 4. UPON APPROVAL OF PLANTING, TAGS SHALL BE IMMEDIATELY REMOVED.
- 5. ALL PLANTS WILL BE MULCHED PER PLANS AND SPECIFICATIONS.6. ALL SHRUB AND PERENNIAL BEDS WILL BE WEEDED AND OTHERWISE NEATLY MAINTAINED FOR
- THE DURATION OF THE CONTRACT.

  7. PLANTS AND PLANTING BEDS SHALL BE THOROUGHLY WATERED AS NECESSARY AND PER
- SPECIFICATIONS.
- 8. PLANTING AREAS SHALL BE EXCAVATED TO MINIMUM DEPTH OF 12 INCHES TO ALLOW FOR PLACEMENT OF 12 INCH DEPTH OF LOAM. PLANTING AND SEEDING SHALL IMMEDIATELY FOLLOW PLACEMENT OF LOAM.

	PLANT LIST - A									
SYMBOL	SPECIES	SIZE	NOTES	TOTAL QUANTITY	Z-A	Z-B	Z-C	Z-D	Z-E	Z-F
TOTh	ARBORVITAE 'TECHNY' THUJA OCCIDENTALIS 'TECHNY'	4-5 FT		2	40					
AMGABh	SERVICE 'AUT. BRILL.' AMELANCH. GRAND. 'AUT. BRILL'	4-5 FT CLUMP		9	3			3	3	
QBc5	OAK - SWAMP WHITE QUERCUS BICOLOR	2-2.5 IN CAL		6	3			3		

**ZONE A**: STA 11+00 TO 14+50 RT STA 22+00 TO 23+50 RT



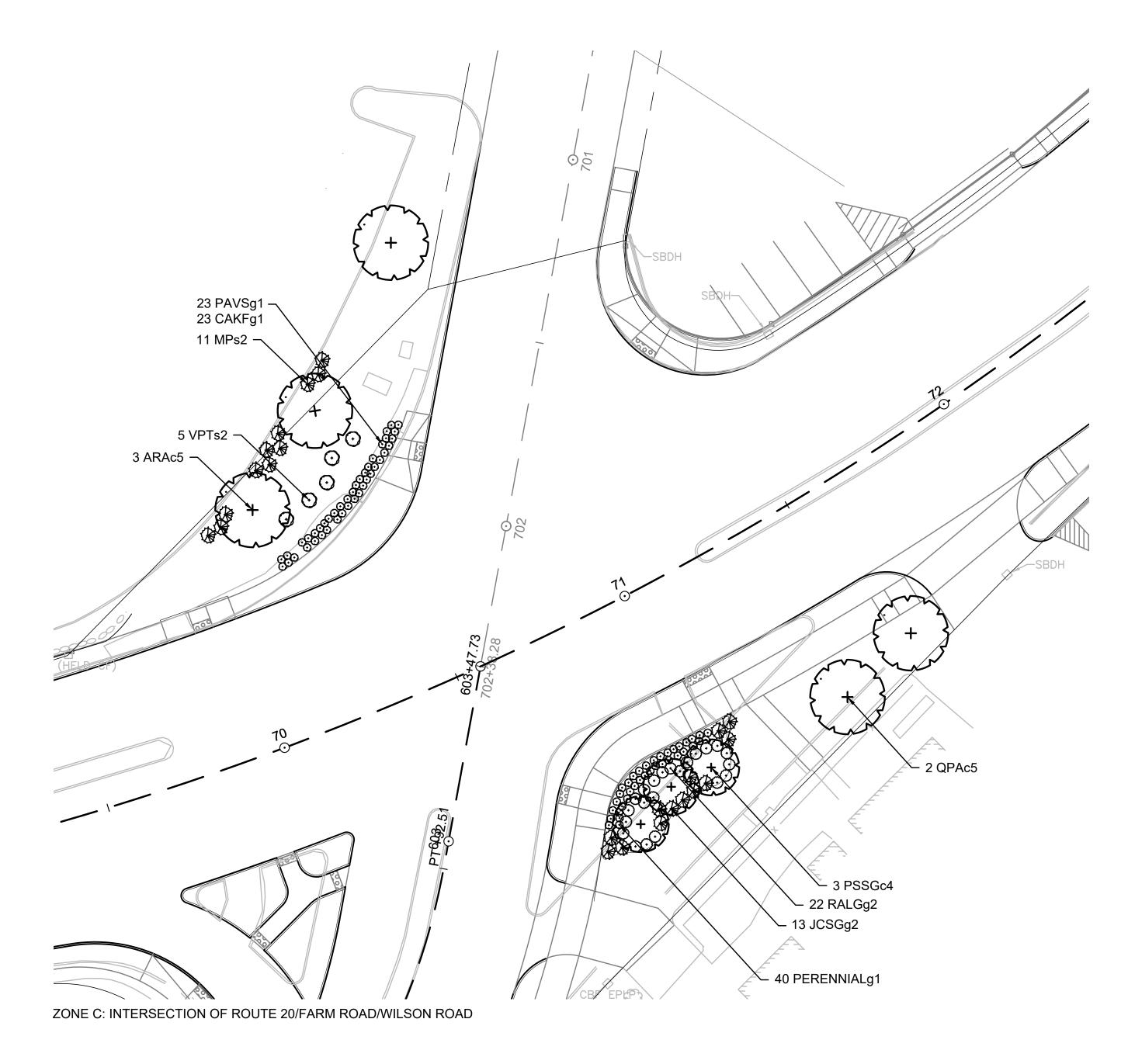


			PLANT LIST - B &	. C						
SYMBOL	SPECIES	SIZE	NOTES	TOTAL QUANTITY	Z-A	Z-B	Z-C	Z-D	Z-E	Z-F
ARAc5	RED MAPLE - 'ARMSTRONG' ACER RUBRUM 'ARMSTRONG'	2-2.5 IN CAL		6			3	3		
PSSGc4	CHERRY 'SNOW GOOSE' PRUNUS SERRUL. 'SNOW GOOSE'	1.5-2 IN CAL		5			3	2		
QPAc5	OAK - PIN QUERCUS PALUSTRIS	2-2.5 IN CAL		8			2		5	
JCSGg2	JUNIPER - 'SARGENTS GREEN' JUNIPER. CHIN. 'SGTS GREEN'	2 GALLON		23			13	10		
MPs2	BAYBERRY - NORTHERN MYRICA PENSYLVANICA	2-2.5 FT		26			11			15
RALGg2	SUMAC 'GRO-LOW' RHUS AROMATICA 'GRO-LOW'	2 GALLON		64		10	22	32		
VPTs2	VIBURNUM - DOUBLEFILE VIBURNUM PLICATUM TOMENT	2-2.5 FT		20		5	5	5	5	
CAKFg1	FEATH. REED GRASS 'KF' CALAMAGROSTIS ACUTIFOLIA 'KF'	1 GALLON		73		25	23	25		
PAVSg1	SWITCHGRASS 'SHENANDOAH' PANICUM VIRGATUM	1 GALLON		83		25	23	35		
PERENNIALg1	PERENNIALS PERENNIALS	1 GALLON	TBD	40			40			

### MARLBOROUGH BOSTON POST ROAD (ROUTE 20)

Ī	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS		
	MA	-	285	428		
		PROJECT FILE NO	608467			

LANDSCAPE PLANS - ZONE B & C



### PLANTING NOTES

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- SPECIFICATIONS.
- 8. PLANTING AREAS SHALL BE EXCAVATED TO MINIMUM DEPTH OF 12 INCHES TO ALLOW FOR PLACEMENT OF 12 INCH DEPTH OF LOAM. PLANTING AND SEEDING SHALL IMMEDIATELY FOLLOW PLACEMENT OF LOAM.

## 608467\_LD(LANDSCAPE PLANS).DWG P

### MARLBOROUGH BOSTON POST ROAD (ROUTE 20)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	286	428
	PROJECT FILE NO.	608467	

LANDSCAPE PLANS - ZONE D

		IF REQUIF & DISPOS PLANT &	KFg1 ¬ / /			4" 6" \(\infty\)
113 ⊙—— —	<del></del>		— I—— —	115 +52 -	<del></del>	<u>116</u>
				1301		

STA 114+00 TO 115+00 RT

STA 117+50 TO 122+00

STA 114+00 TO 115+00 RT STA 117+50 TO 122+00

ZONE D:

PLANT LIST - D										
SYMBOL	SPECIES	SIZE	NOTES	TOTAL QUANTITY	Z-A	Z-B	Z-C	Z-D	Z-E	Z-F
AMGABh	SERVICEBERRY 'AUT. BRILL' AMELANCH. GRAND. 'AUT BRILL'	4-5 FT CLUMP		9	3			3	3	
ARAc5	RED MAPLE - 'ARMSTRONG' ACER RUBRUM 'ARMSTRONG'	2-2.5 IN CAL		6			3	3		
PSSGc4	CHERRY 'SNOW GOOSE' PRUNUS SERRUL. 'SNOW GOOSE'	1.5-2 IN CAL		6	3			3		
QBc5	OAK - SWAMP WHITE QUERCUS BICOLOR	2-2.5 IN CAL		6	3			3		
JCSGg2	JUNIPER - 'SARGENTS GREEN' JUNIPER. CHIN. 'SGTS GREEN'	2 GALLON		23			13	10		
RALGg2	SUMAC 'GRO-LOW' RHUS AROMATICA 'GRO-LOW'	2 GALLON		64		10	22	32		
VPTs2	VIBURNUM - DOUBLEFILE VIBURNUM PLICATUM TOMENT	2-2.5 FT		20		5	5	5	5	
CAKFg1	FEATH. REED GRASS 'KF' CALAMAGROSTIS ACUTIFOLIA 'KF'	1 GALLON		73		25	23	25		
HBJg1	DAYLILY - 'BAJA' HEMEROCALLIS 'HAPPY RETURNS'	1 GALLON		23				23		
HHRg1	DAYLILY - HAPPY RETURNS HEMEROCALLIS 'HAPPY RETURNS'	1 GALLON		22				22		
LMp	LILYTURF HEMEROCALLIS 'HAPPY RETURNS'	4 INCH POT		100				100		
PAVSg1	SWITCHGRASS 'SHENANDOAH' PANICUM VIRGATUM	1 GALLON		83		25	23	35		

# FECANATE MILOUS & NOUFIS SOIL. 5 VET 2 FROUND 91 03 32 92 03 10 93 03 05 94 03 05 94 03 05 95 04 05 97 05 05 98 04 05 98 04 05 98 05 98 05

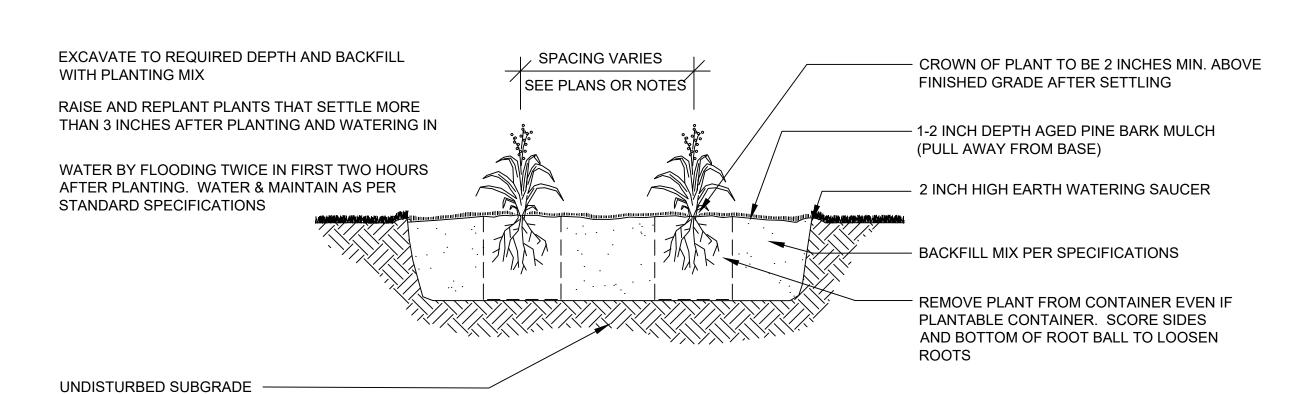
SCALE: 1" = 20'

### PLANTING NOTES

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- 8. PLANTING AREAS SHALL BE EXCAVATED TO MINIMUM DEPTH OF 12 INCHES TO ALLOW FOR PLACEMENT OF 12 INCH DEPTH OF LOAM.
  PLANTING AND SEEDING SHALL IMMEDIATELY FOLLOW PLACEMENT OF LOAM.

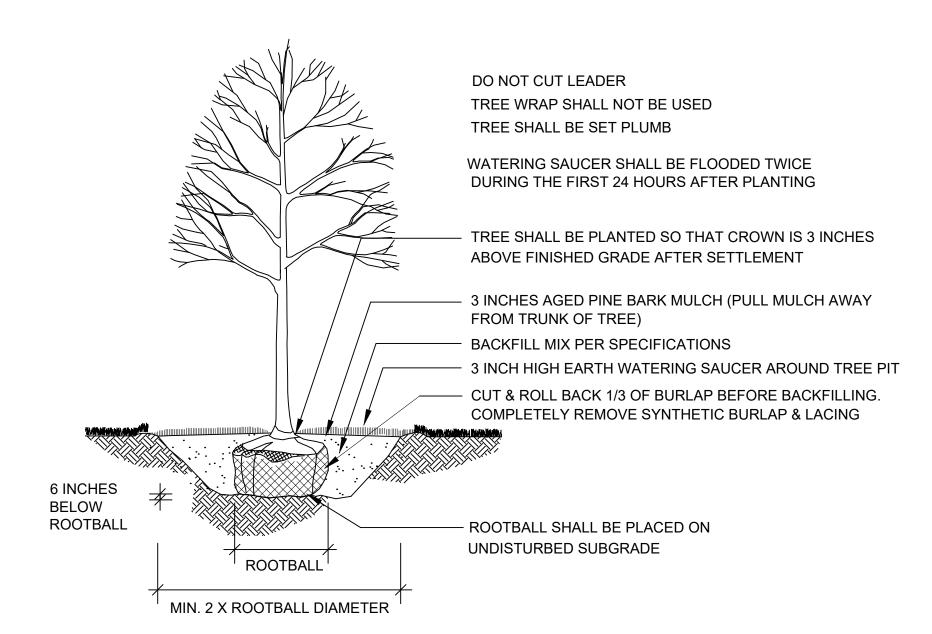
STATE

MA



### PERENNIAL PLANTING

NOT TO SCALE



### DECIDUOUS TREE PLANTING

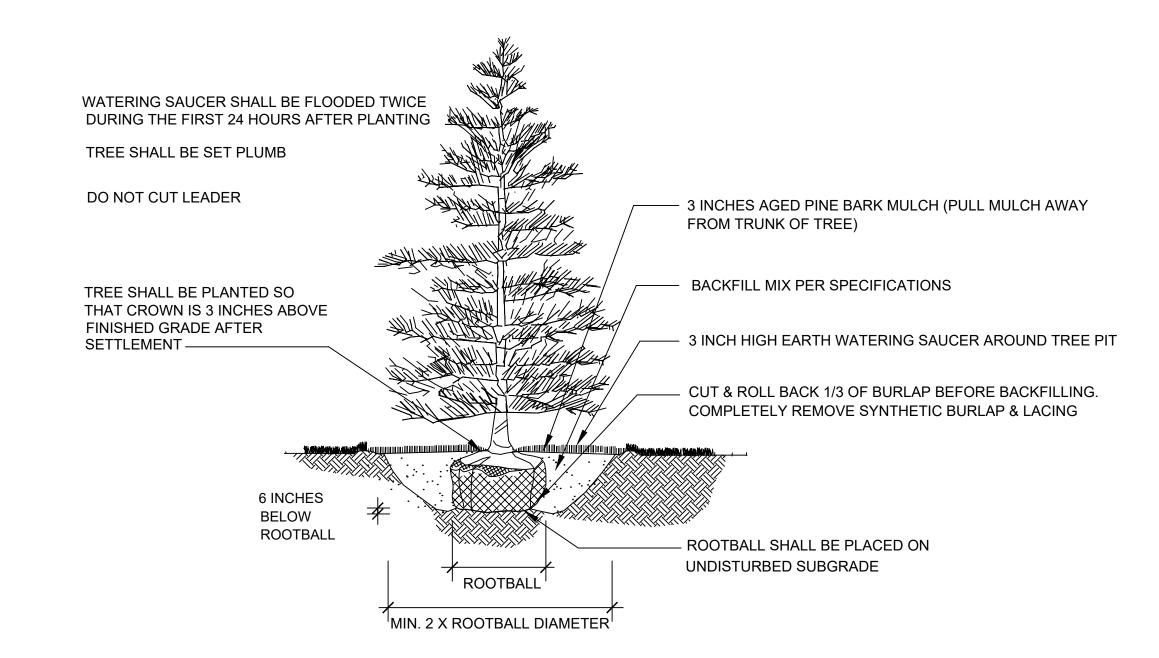
NOT TO SCALE

WATER BY FLOODING TWICE IN FIRST TWO HOURS EXCAVATE TO REQUIRED DEPTH AFTER PLANTING. WATER & MAINTAIN AS PER AND BACKFILL WITH PLANTING MIX STANDARD SPECIFICATIONS CROWN OF PLANT TO BE 2 INCHES MIN. ABOVE FINISHED GRADE AFTER SETTLING

SHRUBS SHALL BE SET PLUMB 2-3 INCH DEPTH AGED PINE BARK MULCH (PULL AWAY FROM BASE OF SHRUB) BACKFILL MIX PER STANDARD SPECIFICATIONS 3 INCH HIGH EARTH WATERING SAUCER AROUND SHRUB - COMPLETELY REMOVE SYNTHETIC BURLAP AND LACING. FOR CONTAINERIZED PLANTS, REMOVE CONTAINER PRIOR TO PLANTING. SCORE SIDES OF 6 IN 3 CONTAINER AND LOOSEN ANY ROOTS ENCIRCLING BELOW' THE ROOT BALL ROOTBALL - UNDISTURBED SUBGRADE LOOSE OR CRACKED ROOTBALLS WILL NOT BE 3 X ROOTBALL ACCEPTED FOR PLANTING

### SHRUB PLANTING

FEB 28, 2013 NOT TO SCALE



### **EVERGREEN TREE PLANTING**

NOT TO SCALE

