MASSACHUSETTS DEPARTMENT OF TRANSPORTATION HIGHWAY DIVISION

LEICESTER
MAIN STREET (ROUTE 9)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	01	20
	PROJECT FILE NO.	N/A	•

TITLE SHEET & INDEX

PLAN AND PROFILE OF

MAIN STREET (ROUTE 9) AT SOOJIANS DRIVE

IN THE TOWN OF

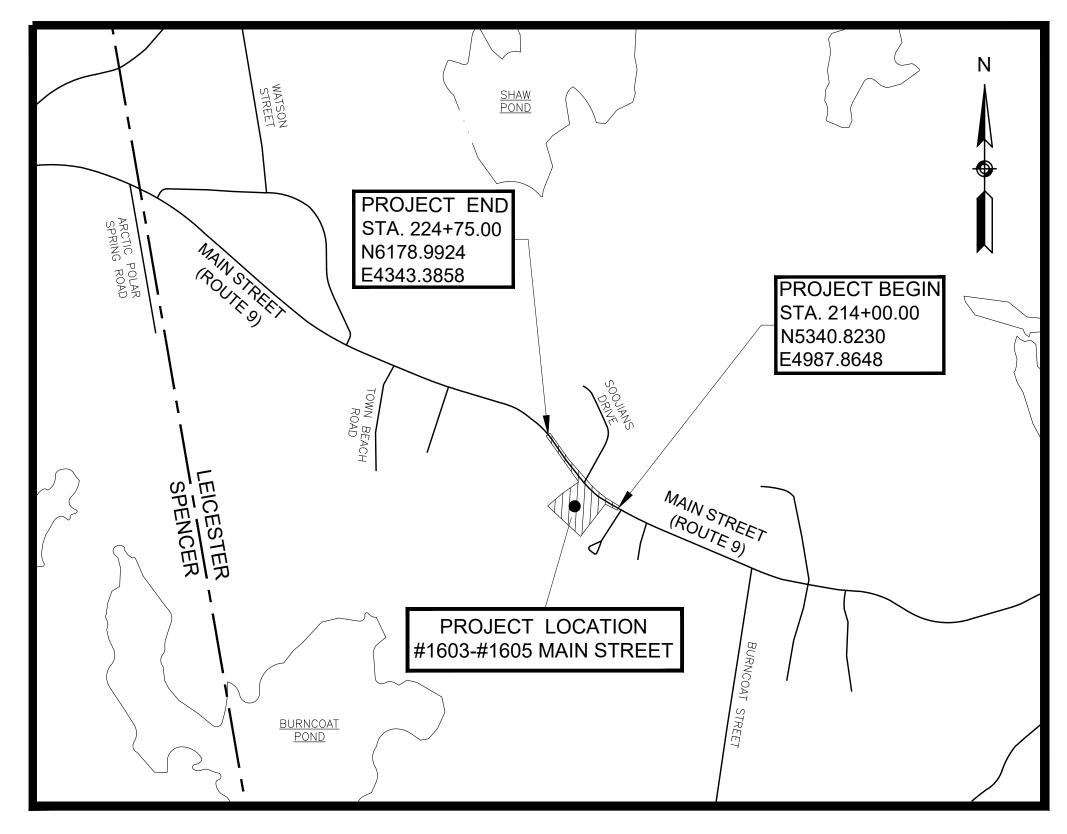
LEICESTER
WORCESTER COUNTY

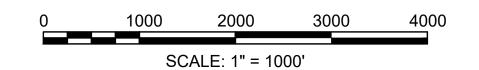
THESE PLANS ARE SUPPLEMENTED BY THE OCTOBER 2017 CONSTRUCTION STANDARD DETAILS, THE 2015 OVERHEAD SIGNAL STRUCTURE AND FOUNDATION STANDARD DRAWINGS, MASSDOT TRAFFIC MANAGEMENT PLANS AND DETAIL DRAWINGS, THE 1990 STANDARD DRAWINGS FOR SIGNS AND SUPPORTS, THE 1968 STANDARD DRAWINGS FOR TRAFFIC SIGNALS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

INDEX

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15-20	CROSS SECTIONS

25% SUBMITTAL

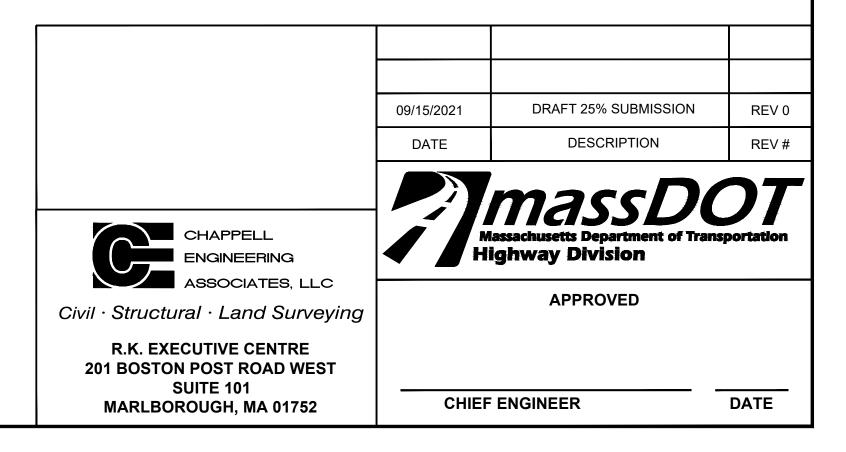




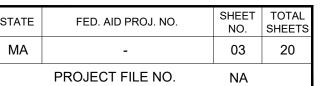
LENGTH OF PROJECT = 1075.00 FEET = 0.204 MILES

DESIGN DESIGNATION (MAIN STREET/ROUTE 9)

DESIGN SPEED	45 MPH
ADT (2021)	20,200
ADT (2028)	21,700
K	8%
D	55%
T (PEAK HOUR)	3.5%
T (AVERAGE DAY)	2.0%
DHV	1,740
DDHV	960
FUNCTIONAL CLASSIFICATION	PRINCIPAL ARTERIA



EXISTING	S <u>PROPOSED</u>	<u>DESCRIPTION</u>	TRAFFIC SYMBOLS			ABBREVIATION GENERAL		_	LEICESTER MAIN STREET (ROUTE 9)
☐ JB	JB	JERSEY BARRIER	<u>EXISTING</u>	PROPOSED	<u>DESCRIPTION</u>	AADT	ANNUAL AVERAGE DAILY TRAFFIC		STATE FED. AID PROJ. NO. SHEET NO. SHEETS
☐ GB	CB	CATCH BASIN	<u>Exionito</u>			ABAN	ABANDON		
——————————————————————————————————————	CB		Ø 1	Ø 1	CONTROLLER PHASE ACTUATED	ADJ	ADJUST		MA - 02 20
<u></u> 5) FP	<u>(∰)</u> ⊗ FP	CATCH BASIN CURB INLET FLAG POLE	<u>[0]</u>	O		APPROX.	APPROXIMATE		PROJECT FILE NO. NA
G GP				O	TRAFFIC SIGNAL HEAD (SIZE AS NOTED)	A.C.	ASPHALT CONCRETE		LEGEND & ABBREVIATIONS
	G GP	GAS PUMP		O		ACCM PIPE	ASPHALT COATED CORRUGATED METAL PIPE		ELOLIND & ABBILLVIATIONS
) MB	□ MB	MAIL BOX	[] _]		WIRE LOOP DETECTOR (6' x 6' TYP UNLESS OTHERWISE SPECIFIED)	BIT.	BITUMINOUS		
		POST SQUARE			VIDEO DETECTION CAMERA	ВС	BOTTOM OF CURB		
O	0	POST CIRCULAR	25	T	VIDEO DE LECTION CAMERA	BD.	BOUND		
WELL	⊕ WELL	WELL	$\triangleright\Box$	>	MICROWAVE DETECTOR	BL	BASELINE		
EHH	□ EHH	ELECTRIC HANDHOLE		•	PEDESTRIAN PUSH BUTTON, SIGN (DIRECTIONAL ARROW AS SHOWN) AND SADDLE	BLDG	BUILDING	ABBREVIATI	IONS (cont.)
0	0	FENCE GATE POST		-	· · · · · · · · · · · · · · · · · · ·	BM	BENCHMARK	GENERAL	
GG "	O GG	GAS GATE	*	*	EMERGENCY PREEMPTION CONFIRMATION STROBE LIGHT	ВО	BY OTHERS		RADIUS OF CURVATURE
BHL #	◆ BHL #	BORING HOLE	<	—	VEHICULAR SIGNAL HEAD	BOS	BOTTOM OF SLOPE	R&D	REMOVE AND DISPOSE
MW #	→ MW #	MONITORING WELL				BR.	BRIDGE	RCP	REINFORCED CONCRETE PIPE
TP #	■ TP#	TEST PIT	< </td <td>₩—</td> <td>VEHICULAR SIGNAL HEAD, OPTICALLY PROGRAMMED</td> <td>CB</td> <td>CATCH BASIN</td> <td>RD</td> <td>ROAD</td>	₩—	VEHICULAR SIGNAL HEAD, OPTICALLY PROGRAMMED	CB	CATCH BASIN	RD	ROAD
P	ф ·	HYDRANT	←	─	FLASHING BEACON	CBCI	CATCH BASIN WITH CURB INLET	RDWY	ROADWAY
*	*	LIGHT POLE			PEDESTRIAN SIGNAL HEAD, (TYPE AS NOTED OR AS SPECIFIED)	CC	CEMENT CONCRETE	REM	REMOVE
CO.BD.		COUNTY BOUND			FEDESTITIAN SIGNAL FIEAD, (TIFE AS NOTED OIL AS SPECIFIED)	CCM	CEMENT CONCRETE MASONRY	RET	RETAIN
		GPS POINT	☑ RRSG	RRSG	RAILROAD SIGNAL	CEM	CEMENT	RET WALL	RETAINING WALL
©	©	CABLE MANHOLE	_O OR O	•	SIGNAL POST AND BASE (ALPHA-NUMERIC DESIGNATION NOTED)	CL	CURB INLET	ROW	RIGHT OF WAY
D	(D)	DRAINAGE MANHOLE	I		· · · · · · · · · · · · · · · · · · ·	CIP	CAST IRON PIPE	RR	RAILROAD
E	(E)	ELECTRIC MANHOLE	o—O	● 20'	MAST ARM, SHAFT AND BASE (ARM LENGTH AS NOTED)	CLF	CHAIN LINK FENCE	R&R	REMOVE AND RESET
©	©	GAS MANHOLE			HIGH MAST POLE OR TOWER	CL	CENTERLINE	R&S	REMOVE AND STACK
M	(M)	MISC MANHOLE				CMP	CORRUGATED METAL PIPE	RT	RIGHT
S	S	SEWER MANHOLE		0	SIGN AND POST	CSP		SB	STONE BOUND
T	T	TELEPHONE MANHOLE	00		SIGN AND POST (2 POSTS)		COUNTY	SHLD	SHOULDER
W	w	WATER MANHOLE				CO. CONC	COUNTY CONCRETE	SMH	SEWER MANHOLE
MHB	■ MHB	MASSACHUSETTS HIGHWAY BOUND		★ ^{20'}	MAST ARM WITH LUMINAIRE			ST	STREET
MON		MONUMENT			OPTICAL PRE-EMPTION DETECTOR	CONST	CONSTRUCTION	STA	STATION
SB		STONE BOUND		\bowtie		CONST	CONSTRUCTION	SSD	STOPPING SIGHT DISTANCE
TB		TOWN OR CITY BOUND			CONTROL CABINET, GROUND MOUNTED	CR GR	CROWN GRADE	SHLO	STATE HIGHWAY LAYOUT LINE
<u>A</u>		TRAVERSE OR TRIANGULATION STATION		ightharpoons	CONTROL CABINET, POLE MOUNTED	DHV	DESIGN HOURLY VOLUME	SM	SIDEWALK
or GUY -	→ TPL or GUY				FLASHING BEACON CONTROL AND METER PEDESTAL	DI	DROP INLET	T	TANGENT DISTANCE OF CURVE/TRUC
HTP	51 551	TRANSMISSION POLE				DIA	DIAMETER	TAN	TANGENT DISTANCE OF CURVE/TRUC
UFB	- ↓ UFB	UTILITY POLE W/ FIREBOX		\boxtimes	LOAD CENTER ASSEMBLY	DIP	DUCTILE IRON PIPE	TEMP	TEMPORARY
UPDL	-∳- UPDL	UTILITY POLE WITH DOUBLE LIGHT			PULL BOX 12"x12" (OR AS NOTED)	DW	STEADY DON'T WALK - PORTLAND ORANGE	TC	TOP OF CURB
ULT	-& ULT	UTILITY POLE W/ 1 LIGHT	_			DWY	DRIVEWAY	TOS	TOP OF SLOPE
		UTILITY POLE W/ TEIGHT			ELECTRIC HANDHOLE 12"x24" (OR AS NOTED)	ELEV (or EL.)		TYP	TYPICAL
UPL •	-∽ UPL	BUSH			= TRAFFIC SIGNAL CONDUIT	EMB	EMBANKMENT	UP	UTILITY POLE
		TREE				EOP	EDGE OF PAVEMENT	VAR	VARIES
& TYPE						EXIST (or EX)		VERT	VERTICAL
0		STUMP (MARCH				EXC	EXCAVATION		
		SWAMP / MARSH				F&C	FRAME AND COVER	VC WCR	VERTICAL CURVE WHEEL CHAIR RAMP
WG	• WG	WATER GATE				F&G	FRAME AND GRATE		
PM	• PM	PARKING METER				FDN.	FOUNDATION	WG WIP	WATER GATE WROUGHT IRON PIPE
		- OVERHEAD CABLE/WIRE				FLDSTN	FIELDSTONE	WM	WATER METER/WATER MAIN
						GAR	GARAGE	X-SECT	
		- CONTOURS (ON-THE-GROUND SURVEY DATA)				GD	GROUND	Λ-3EC1	CROSS SECTION
_						~~	GAS GATE		
		- CONTOURS (PHOTOGRAMMETRIC DATA)				GG			
_		- UNDERGROUND DRAIN PIPE (DOUBLE LINE 24 INCH AND OVER)	PAVEMENT MARKING	SS SYMBOLS		GI	GUTTER INLET		
		UNDERGROUND DRAIN PIPE (DOUBLE LINE 24 INCH AND OVER)UNDERGROUND ELECTRIC DUCT (DOUBLE LINE 24 INCH AND OVER)	PAVEMENT MARKING	SS SYMBOLS		GI GIP	GUTTER INLET GALVANIZED IRON PIPE		
		 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) 	PAVEMENT MARKING - <u>EXISTING</u>	SS SYMBOLS PROPOSED	DESCRIPTION	GI GIP GRAN	GUTTER INLET GALVANIZED IRON PIPE GRANITE		
		 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) 	_			GI GIP GRAN GRAV	GUTTER INLET GALVANIZED IRON PIPE GRANITE GRAVEL	TDAFFIO OLO	ONIAL ADDDEVIATIONS
		 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) 	_	PROPOSED	PAVEMENT ARROW - WHITE	GI GIP GRAN GRAV GRD	GUTTER INLET GALVANIZED IRON PIPE GRANITE GRAVEL GUARD		GNAL ABBREVIATIONS
		 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) 	_	PROPOSED		GI GIP GRAN GRAV GRD HDW	GUTTER INLET GALVANIZED IRON PIPE GRANITE GRAVEL GUARD HEADWALL	CAB	CABINET
	~~~~~~	<ul> <li>UNDERGROUND DRAIN PIPE (DOUBLE LINE 24 INCH AND OVER)</li> <li>UNDERGROUND ELECTRIC DUCT (DOUBLE LINE 24 INCH AND OVER)</li> <li>UNDERGROUND GAS MAIN (DOUBLE LINE 24 INCH AND OVER)</li> <li>UNDERGROUND SEWER MAIN (DOUBLE LINE 24 INCH AND OVER)</li> <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> </ul>	_	PROPOSED	PAVEMENT ARROW - WHITE  LEGEND "ONLY" - WHITE	GI GIP GRAN GRAV GRD HDW HMA	GUTTER INLET GALVANIZED IRON PIPE GRANITE GRAVEL GUARD HEADWALL HOT MIX ASPHALT	CAB CCVE	CABINET CLOSED CIRCUIT VIDEO EQUIPMENT
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		UNDERGROUND DRAIN PIPE (DOUBLE LINE 24 INCH AND OVER)  UNDERGROUND ELECTRIC DUCT (DOUBLE LINE 24 INCH AND OVER)  UNDERGROUND GAS MAIN (DOUBLE LINE 24 INCH AND OVER)  UNDERGROUND SEWER MAIN (DOUBLE LINE 24 INCH AND OVER)  UNDERGROUND TELEPHONE DUCT (DOUBLE LINE 24 INCH AND OVER)  UNDERGROUND WATER MAIN (DOUBLE LINE 24 INCH AND OVER)  BALANCED STONE WALL  GUARD RAIL - STEEL POSTS  GUARD RAIL - WOOD POSTS  GUARD RAIL - DOUBLE FACE - STEEL POSTS  GUARD RAIL - DOUBLE FACE - WOOD POSTS  CHAIN LINK OR METAL FENCE  WOOD FENCE  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	EXISTING   The state of the sta	PROPOSED  The state of the stat	PAVEMENT ARROW - WHITE  LEGEND "ONLY" - WHITE  STOP LINE  CROSSWALK  SOLID WHITE LINE  SOLID YELLOW LINE  BROKEN WHITE LINE  BROKEN YELLOW LINE  DOTTED WHITE LINE  DOTTED WHITE LINE  DOTTED WHITE LINE  DOTTED WHITE LINE EXTENSION	GI GIP GRAN GRAV GRD HDW HMA HOR HYD INV JCT L LB LP LT MAX MB MH	GUTTER INLET GALVANIZED IRON PIPE GRANITE GRAVEL GUARD HEADWALL HOT MIX ASPHALT HORIZONTAL HYDRANT INVERT JUNCTION LENGTH OF CURVE LEACH BASIN LIGHT POLE LEFT MAXIMUM MAILBOX MANHOLE	CAB CCVE DW FDW FR FRL FRR FY FYL FYR G GL GR	CABINET CLOSED CIRCUIT VIDEO EQUIPMENT STEADY UPRAISED HAND FLASHING UPRAISED HAND FLASHING CIRCULAR RED FLASHING RED LEFT ARROW FLASHING RED RIGHT ARROW FLASHING CIRCULAR YELLOW FLASHING YELLOW LEFT ARROW FLASHING YELLOW RIGHT ARROW STEADY CIRCULAR GREEN STEADY GREEN LEFT ARROW STEADY GREEN RIGHT ARROW
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		UNDERGROUND DRAIN PIPE (DOUBLE LINE 24 INCH AND OVER)  UNDERGROUND ELECTRIC DUCT (DOUBLE LINE 24 INCH AND OVER)  UNDERGROUND GAS MAIN (DOUBLE LINE 24 INCH AND OVER)  UNDERGROUND SEWER MAIN (DOUBLE LINE 24 INCH AND OVER)  UNDERGROUND TELEPHONE DUCT (DOUBLE LINE 24 INCH AND OVER)  UNDERGROUND WATER MAIN (DOUBLE LINE 24 INCH AND OVER)  BALANCED STONE WALL  GUARD RAIL - STEEL POSTS  GUARD RAIL - WOOD POSTS  GUARD RAIL - DOUBLE FACE - STEEL POSTS  GUARD RAIL - DOUBLE FACE - WOOD POSTS  CHAIN LINK OR METAL FENCE  WOOD FENCE  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	EXISTING   The second s	PROPOSED  The second se	PAVEMENT ARROW - WHITE  LEGEND "ONLY" - WHITE  STOP LINE  CROSSWALK  SOLID WHITE LINE  SOLID YELLOW LINE  BROKEN WHITE LINE  BROKEN YELLOW LINE  DOTTED WHITE LINE  DOTTED WHITE LINE  DOTTED WHITE LINE  DOTTED YELLOW LINE  DOTTED WHITE LINE EXTENSION  DOTTED YELLOW LINE EXTENSION  DOUBLE WHITE LINE	GI GIP GRAN GRAV GRD HDW HMA HOR HYD INV JCT L LB LP LT MAX MB MH MHB MIN NIC NO. PC PCC	GUTTER INLET GALVANIZED IRON PIPE GRANITE GRAVEL GUARD HEADWALL HOT MIX ASPHALT HORIZONTAL HYDRANT INVERT JUNCTION LENGTH OF CURVE LEACH BASIN LIGHT POLE LEFT MAXIMUM MAILBOX MANHOLE MASSACHUSETTS HIGHWAY BOUND MINIMUM NOT IN CONTRACT NUMBER POINT OF CURVATURE POINT OF COMPOUND CURVATURE	CAB CCVE DW FDW FR FRL FRR FY FYL FYR G GL GR GSL GSR GV OL PED	CABINET CLOSED CIRCUIT VIDEO EQUIPMENT STEADY UPRAISED HAND FLASHING UPRAISED HAND FLASHING CIRCULAR RED FLASHING RED LEFT ARROW FLASHING RED RIGHT ARROW FLASHING CIRCULAR YELLOW FLASHING YELLOW LEFT ARROW FLASHING YELLOW 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
		UNDERGROUND DRAIN PIPE (DOUBLE LINE 24 INCH AND OVER)  UNDERGROUND ELECTRIC DUCT (DOUBLE LINE 24 INCH AND OVER)  UNDERGROUND GAS MAIN (DOUBLE LINE 24 INCH AND OVER)  UNDERGROUND SEWER MAIN (DOUBLE LINE 24 INCH AND OVER)  UNDERGROUND TELEPHONE DUCT (DOUBLE LINE 24 INCH AND OVER)  UNDERGROUND WATER MAIN (DOUBLE LINE 24 INCH AND OVER)  BALANCED STONE WALL  GUARD RAIL - STEEL POSTS  GUARD RAIL - WOOD POSTS  GUARD RAIL - DOUBLE FACE - STEEL POSTS  GUARD RAIL - DOUBLE FACE - WOOD POSTS  CHAIN LINK OR METAL FENCE  WOOD FENCE  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	EXISTING   The second s	PROPOSED  The second se	PAVEMENT ARROW - WHITE  LEGEND "ONLY" - WHITE  STOP LINE  CROSSWALK  SOLID WHITE LINE  SOLID YELLOW LINE  BROKEN WHITE LINE  BROKEN YELLOW LINE  DOTTED WHITE LINE  DOTTED WHITE LINE  DOTTED WHITE LINE  DOTTED YELLOW LINE  DOTTED WHITE LINE EXTENSION  DOTTED YELLOW LINE EXTENSION  DOUBLE WHITE LINE	GI GIP GRAN GRAV GRD HDW HMA HOR HYD INV JCT L LB LP LT MAX MB MH MHB MIN NIC NO. PC PCC P.G.L.	GUTTER INLET GALVANIZED IRON PIPE GRANITE GRAVEL GUARD HEADWALL HOT MIX ASPHALT HORIZONTAL HYDRANT INVERT JUNCTION LENGTH OF CURVE LEACH BASIN LIGHT POLE LEFT MAXIMUM MAILBOX MANHOLE MASSACHUSETTS HIGHWAY BOUND MINIMUM NOT IN CONTRACT NUMBER POINT OF CURVATURE PROFILE GRADE LINE	CAB CCVE DW FDW FR FRL FRR FY FYL FYR G GL GR GSL GSR GV OL PED	CABINET CLOSED CIRCUIT VIDEO EQUIPMENT STEADY UPRAISED HAND FLASHING UPRAISED HAND FLASHING CIRCULAR RED FLASHING RED LEFT ARROW FLASHING RED RIGHT ARROW FLASHING CIRCULAR YELLOW FLASHING YELLOW LEFT ARROW FLASHING YELLOW 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, TILT, ZOOM
		UNDERGROUND DRAIN PIPE (DOUBLE LINE 24 INCH AND OVER)  UNDERGROUND ELECTRIC DUCT (DOUBLE LINE 24 INCH AND OVER)  UNDERGROUND GAS MAIN (DOUBLE LINE 24 INCH AND OVER)  UNDERGROUND SEWER MAIN (DOUBLE LINE 24 INCH AND OVER)  UNDERGROUND TELEPHONE DUCT (DOUBLE LINE 24 INCH AND OVER)  UNDERGROUND WATER MAIN (DOUBLE LINE 24 INCH AND OVER)  BALANCED STONE WALL  GUARD RAIL - STEEL POSTS  GUARD RAIL - WOOD POSTS  GUARD RAIL - DOUBLE FACE - STEEL POSTS  GUARD RAIL - DOUBLE FACE - WOOD POSTS  CHAIN LINK OR METAL FENCE  WOOD FENCE  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	EXISTING   The second s	PROPOSED  The second se	PAVEMENT ARROW - WHITE  LEGEND "ONLY" - WHITE  STOP LINE  CROSSWALK  SOLID WHITE LINE  SOLID YELLOW LINE  BROKEN WHITE LINE  BROKEN YELLOW LINE  DOTTED WHITE LINE  DOTTED WHITE LINE  DOTTED WHITE LINE  DOTTED YELLOW LINE  DOTTED WHITE LINE EXTENSION  DOTTED YELLOW LINE EXTENSION  DOUBLE WHITE LINE	GI GIP GRAN GRAV GRD HDW HMA HOR HYD INV JCT L LB LP LT MAX MB MH MHB MIN NIC NO. PC PCC P.G.L. PI	GUTTER INLET GALVANIZED IRON PIPE GRANITE GRAVEL GUARD HEADWALL HOT MIX ASPHALT HORIZONTAL HYDRANT INVERT JUNCTION LENGTH OF CURVE LEACH BASIN LIGHT POLE 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	CAB CCVE DW FDW FR FRL FRR FY FYL FYR G GL GR GSL GSR GV OL PED PTZ R	CABINET CLOSED CIRCUIT VIDEO EQUIPMENT STEADY UPRAISED HAND FLASHING UPRAISED HAND FLASHING CIRCULAR RED FLASHING RED LEFT ARROW FLASHING RED RIGHT ARROW FLASHING CIRCULAR YELLOW FLASHING YELLOW LEFT ARROW FLASHING YELLOW RIGHT ARROW STEADY GREEN LEFT ARROW STEADY GREEN LEFT ARROW STEADY GREEN SLASH LEFT ARROW STEADY GREEN SLASH RIGHT ARROW STEADY GREEN VERTICAL ARROW OVERLAP PEDESTRIAN PAN, TILT, ZOOM STEADY CIRCULAR RED
		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)  UNDERGROUND WATER MAIN (DOUBLE LINE 24 INCH AND OVER)  BALANCED STONE WALL  GUARD RAIL - STEEL POSTS  GUARD RAIL - WOOD POSTS  GUARD RAIL - DOUBLE FACE - STEEL POSTS  GUARD RAIL - DOUBLE FACE - WOOD POSTS  CHAIN LINK OR METAL FENCE  WOOD FENCE  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  RAILROAD SIDELINE  TOWN OR CITY BOUNDARY LINE	EXISTING   The second s	PROPOSED  The second se	PAVEMENT ARROW - WHITE  LEGEND "ONLY" - WHITE  STOP LINE  CROSSWALK  SOLID WHITE LINE  SOLID YELLOW LINE  BROKEN WHITE LINE  BROKEN YELLOW LINE  DOTTED WHITE LINE  DOTTED WHITE LINE  DOTTED WHITE LINE  DOTTED YELLOW LINE  DOTTED WHITE LINE EXTENSION  DOTTED YELLOW LINE EXTENSION  DOUBLE WHITE LINE	GI GIP GRAN GRAV GRD HDW HMA HOR HYD INV JCT L LB LP LT MAX MB MH MHB MIN NIC NO. PC PCC P.G.L. PI POC	GUTTER INLET GALVANIZED IRON PIPE GRANITE GRAVEL GUARD HEADWALL HOT MIX ASPHALT HORIZONTAL HYDRANT INVERT JUNCTION LENGTH OF CURVE LEACH BASIN LIGHT POLE 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	CAB CCVE DW FDW FR FRL FRR FY FYL FYR G GL GR GSL GSR GV OL PED PTZ R RL	CABINET CLOSED CIRCUIT VIDEO EQUIPMENT STEADY UPRAISED HAND FLASHING UPRAISED HAND FLASHING CIRCULAR RED FLASHING RED LEFT ARROW FLASHING RED RIGHT ARROW FLASHING CIRCULAR YELLOW FLASHING YELLOW LEFT ARROW FLASHING YELLOW RIGHT ARROW 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, TILT, ZOOM STEADY CIRCULAR RED STEADY RED LEFT ARROW
		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)  UNDERGROUND WATER MAIN (DOUBLE LINE 24 INCH AND OVER)  BALANCED STONE WALL  GUARD RAIL - STEEL POSTS  GUARD RAIL - WOOD POSTS  GUARD RAIL - DOUBLE FACE - STEEL POSTS  GUARD RAIL - DOUBLE FACE - WOOD POSTS  CHAIN LINK OR METAL FENCE  WOOD FENCE  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	EXISTING   The second s	PROPOSED  The second se	PAVEMENT ARROW - WHITE  LEGEND "ONLY" - WHITE  STOP LINE  CROSSWALK  SOLID WHITE LINE  SOLID YELLOW LINE  BROKEN WHITE LINE  BROKEN YELLOW LINE  DOTTED WHITE LINE  DOTTED WHITE LINE  DOTTED WHITE LINE  DOTTED YELLOW LINE  DOTTED WHITE LINE EXTENSION  DOTTED YELLOW LINE EXTENSION  DOUBLE WHITE LINE	GI GIP GRAN GRAV GRD HDW HMA HOR HYD INV JCT L LB LP LT MAX MB MH MHB MIN NIC NO. PC PCC P.G.L. PI POC POT	GUTTER INLET GALVANIZED IRON PIPE GRANITE GRAVEL GUARD HEADWALL HOT MIX ASPHALT HORIZONTAL HYDRANT INVERT JUNCTION LENGTH OF CURVE LEACH BASIN LIGHT POLE LEFT MAXIMUM MAILBOX MANHOLE MASSACHUSETTS HIGHWAY BOUND MINIMUM NOT IN CONTRACT NUMBER POINT OF CURVATURE POINT OF COMPOUND CURVATURE PROFILE GRADE LINE POINT ON CURVE POINT ON TANGENT	CAB CCVE DW FDW FR FRL FRR FY FYL FYR G GL GSR GSL GSR GV OL PED PTZ R RL RR TR SIG	CABINET CLOSED CIRCUIT VIDEO EQUIPMENT STEADY UPRAISED HAND FLASHING UPRAISED HAND FLASHING CIRCULAR RED FLASHING RED LEFT ARROW FLASHING RED RIGHT ARROW FLASHING CIRCULAR YELLOW FLASHING YELLOW LEFT ARROW FLASHING YELLOW RIGHT ARROW STEADY GREEN LEFT ARROW STEADY GREEN LEFT ARROW STEADY GREEN SLASH LEFT ARROW STEADY GREEN SLASH RIGHT ARROW STEADY GREEN VERTICAL ARROW OVERLAP PEDESTRIAN PAN, TILT, ZOOM STEADY RED LEFT ARROW STEADY RED LEFT ARROW STEADY RED LEFT ARROW STEADY RED RIGHT ARROW
		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)  UNDERGROUND WATER MAIN (DOUBLE LINE 24 INCH AND OVER)  BALANCED STONE WALL  GUARD RAIL - STEEL POSTS  GUARD RAIL - WOOD POSTS  GUARD RAIL - DOUBLE FACE - STEEL POSTS  GUARD RAIL - DOUBLE FACE - WOOD POSTS  CHAIN LINK OR METAL FENCE  WOOD FENCE  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	EXISTING   The second s	PROPOSED  The second se	PAVEMENT ARROW - WHITE  LEGEND "ONLY" - WHITE  STOP LINE  CROSSWALK  SOLID WHITE LINE  SOLID YELLOW LINE  BROKEN WHITE LINE  BROKEN YELLOW LINE  DOTTED WHITE LINE  DOTTED WHITE LINE  DOTTED WHITE LINE  DOTTED YELLOW LINE  DOTTED WHITE LINE EXTENSION  DOTTED YELLOW LINE EXTENSION  DOUBLE WHITE LINE	GI GIP GRAN GRAV GRD HDW HMA HOR HYD INV JCT L LB LP LT MAX MB MH MHB MIN NIC NO. PC PCC P.G.L. PI POC POT PRC	GUTTER INLET GALVANIZED IRON PIPE GRANITE GRAVEL GUARD HEADWALL HOT MIX ASPHALT HORIZONTAL HYDRANT INVERT JUNCTION LENGTH OF CURVE LEACH BASIN LIGHT POLE LEFT MAXIMUM MAILBOX MANHOLE MASSACHUSETTS HIGHWAY BOUND MINIMUM NOT IN CONTRACT NUMBER POINT OF CURVATURE PROFILE GRADE LINE POINT ON CURVE POINT ON TANGENT POINT OF REVERSE CURVATURE	CAB CCVE DW FDW FR FRL FRR FY FYL FYR G GL GSR GSL GSR GV OL PED PTZ R RL RR TR SIG TSC	CABINET CLOSED CIRCUIT VIDEO EQUIPMENT STEADY UPRAISED HAND FLASHING UPRAISED HAND FLASHING CIRCULAR RED FLASHING RED LEFT ARROW FLASHING RED RIGHT ARROW FLASHING CIRCULAR YELLOW FLASHING YELLOW LEFT ARROW FLASHING YELLOW 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, TILT, ZOOM STEADY CIRCULAR RED STEADY RED LEFT ARROW STEADY RED LEFT ARROW STEADY RED LEFT ARROW TRAFFIC SIGNAL TRAFFIC SIGNAL CONDUIT
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		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)  UNDERGROUND WATER MAIN (DOUBLE LINE 24 INCH AND OVER)  BALANCED STONE WALL  GUARD RAIL - STEEL POSTS  GUARD RAIL - WOOD POSTS  GUARD RAIL - DOUBLE FACE - STEEL POSTS  GUARD RAIL - DOUBLE FACE - WOOD POSTS  CHAIN LINK OR METAL FENCE  WOOD FENCE  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	EXISTING   The second s	PROPOSED  The second se	PAVEMENT ARROW - WHITE  LEGEND "ONLY" - WHITE  STOP LINE  CROSSWALK  SOLID WHITE LINE  SOLID YELLOW LINE  BROKEN WHITE LINE  BROKEN YELLOW LINE  DOTTED WHITE LINE  DOTTED WHITE LINE  DOTTED WHITE LINE  DOTTED YELLOW LINE  DOTTED WHITE LINE EXTENSION  DOTTED YELLOW LINE EXTENSION  DOUBLE WHITE LINE	GI GIP GRAN GRAV GRD HDW HMA HOR HYD INV JCT L LB LP LT MAX MB MH MIN NIC NO. PC PCC P.G.L. PI POC PROJ PROP PSB PT	GUTTER INLET GALVANIZED IRON PIPE GRANITE GRAVEL GUARD HEADWALL HOT MIX ASPHALT HORIZONTAL HYDRANT INVERT JUNCTION LENGTH OF CURVE LEACH BASIN LIGHT POLE LEFT MAXIMUM MAILBOX MANHOLE MASSACHUSETTS HIGHWAY BOUND MINIMUM NOT IN CONTRACT NUMBER POINT OF CURVATURE POINT OF COMPOUND CURVATURE PROFILE GRADE LINE POINT ON TANGENT POINT OF REVERSE CURVATURE PROPOSED PLANTABLE SOIL BORROW POINT OF TANGENCY	CAB CCVE DW FDW FR FRL FRR FY FYL FYR G GL GSR GV OL PED PTZ R RL RR TR SIG TSC W Y	CABINET CLOSED CIRCUIT VIDEO EQUIPMENT STEADY UPRAISED HAND FLASHING UPRAISED HAND FLASHING CIRCULAR RED FLASHING RED LEFT ARROW FLASHING RED RIGHT ARROW FLASHING CIRCULAR YELLOW FLASHING YELLOW LEFT ARROW FLASHING YELLOW RIGHT ARROW STEADY CIRCULAR GREEN STEADY GREEN LEFT ARROW STEADY GREEN SLASH LEFT ARROW STEADY GREEN SLASH RIGHT ARROW STEADY GREEN VERTICAL ARROW OVERLAP PEDESTRIAN PAN, TILT, ZOOM STEADY CIRCULAR RED STEADY RED LEFT ARROW STEADY RED RIGHT ARROW TRAFFIC SIGNAL TRAFFIC SIGNAL TRAFFIC SIGNAL CONDUIT STEADY WALKING PERSON STEADY CIRCULAR YELLOW
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**TYPICAL SECTIONS** 



#### PROPOSED PAVEMENT MILLING AND PAVEMENT OVERLAY

SURFACE: 2.0" SUPERPAVE SURFACE COURSE 12.5 (SSC -12.5) OVER ASPHALT EMULSION FOR TACK COAT (RS-1h) OVER

MILLING: 2.0" PAVEMENT FINE MILLING

#### PROPOSED FULL DEPTH PAVEMENT LESS THAN 4 FEET WIDE

SURFACE: 2.0" SUPERPAVE SURFACE COURSE 12.5 (SSC -12.5) OVER
ASPHALT EMULSION FOR TACK COAT (RS-1h) OVER

INTERMEDIATE: 1.75" SUPERPAVE INTERMEDIATE COURSE 12.5 (SIC - 12.5) OVER ASPHALT EMULSION FOR TACK COAT (RS-1h) OVER

BASE: 6" CEMENT CONCRETE BASE COURSE OVER

SUBBASE: 8" GRAVEL BORROW, TYPE b

#### PROPOSED FULL DEPTH PAVEMENT - WIDENING 4 FEET OR MORE

SURFACE: 2.0" SUPERPAVE SURFACE COURSE 12.5 (SSC - 12.5) OVER
ASPHALT EMULSION FOR TACK COAT (RS-1h) OVER
INTERMEDIATE: 1.75" SUPERPAVE INTERMEDIATE COURSE 12.5 (SIC - 12.5) OVER

ASPHALT EMULSION FOR TACK COAT (RS-1h) OVER BASE: 4" SUPERPAVE BASE COURSE 37.5 (SBC - 37.5) OVER

SUBBASE: 4" DENSE GRADED CRUSHED STONE OVER

8" GRAVEL, TYPE b

#### PROPOSED HOT MIX ASPHALT DRIVEWAY

SURFACE: 1.5" SUPERPAVE SURFACE COURSE OVER

ASPHALT EMULSION FOR TACK COAT (RS-1h) OVER 2.5" SUPERPAVE INTERMEDIATE COURSE

FOUNDATION: 12" GRAVEL BORROW, TYPE b

#### PROPOSED CEMENT CONCRETE TRAFFIC ISLAND

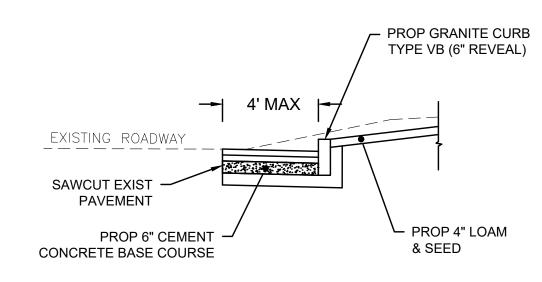
SURFACE: 4" CEMENT CONCRETE WALK SURFACE 4000 PSI, 3/4", 610 LB

OVER

FOUNDATION: 8" GRAVEL BORROW, TYPE b

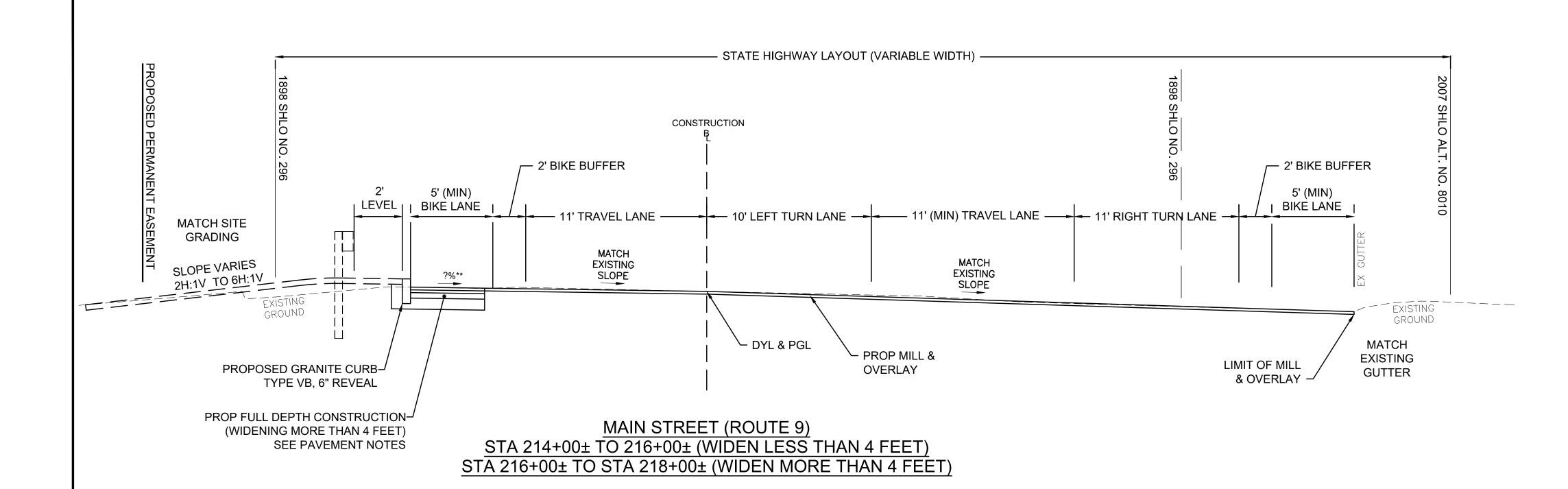
#### GENERAL NOTES

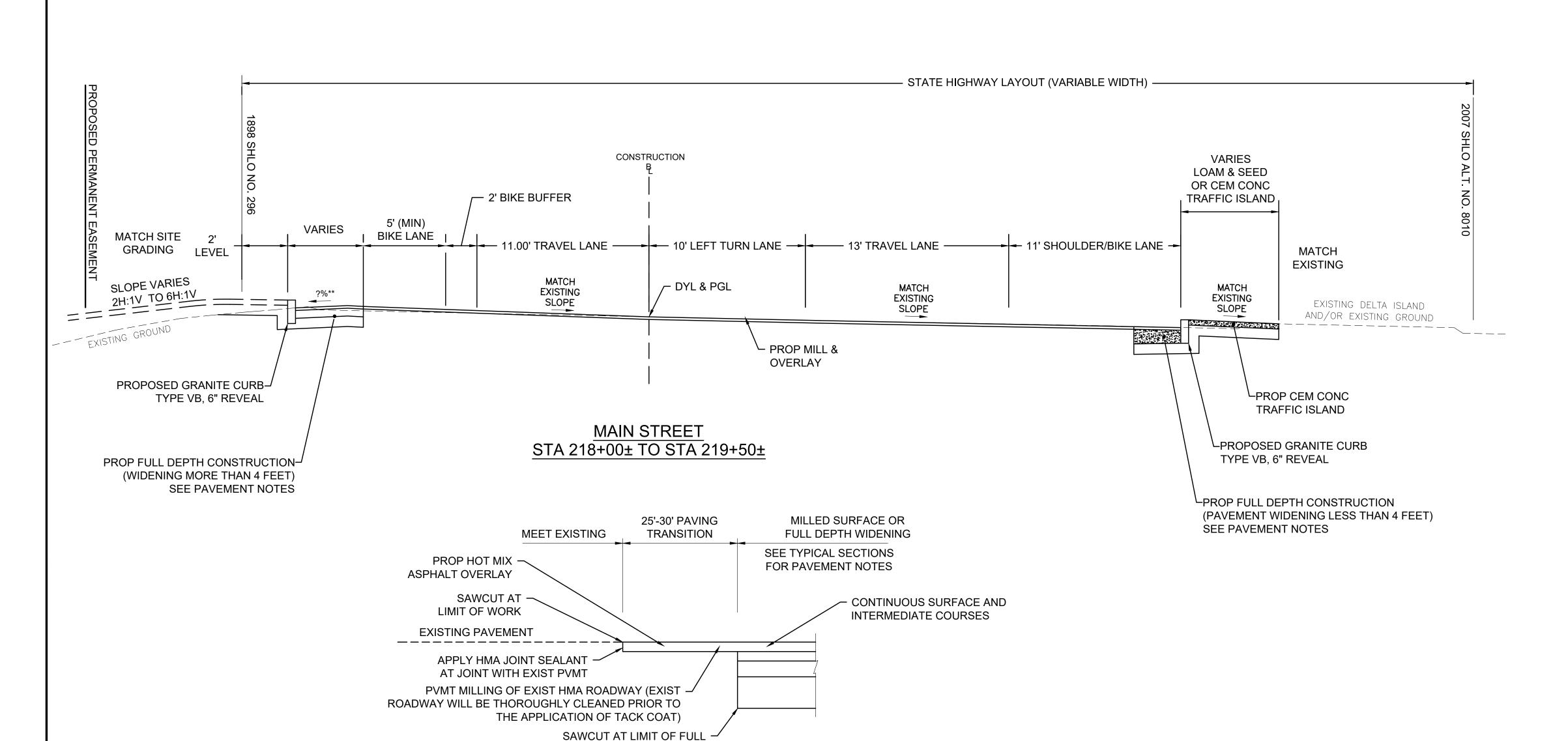
EXISTING PAVEMENT MARKINGS IN CONFLICT WITH PROPOSED LANE MARKINGS TO BE REMOVED, SEE SIGN AND PAVEMENT MARKING PLANS.



## PROPOSED WIDENING LESS THAN 4 FEET SCALE: NONE



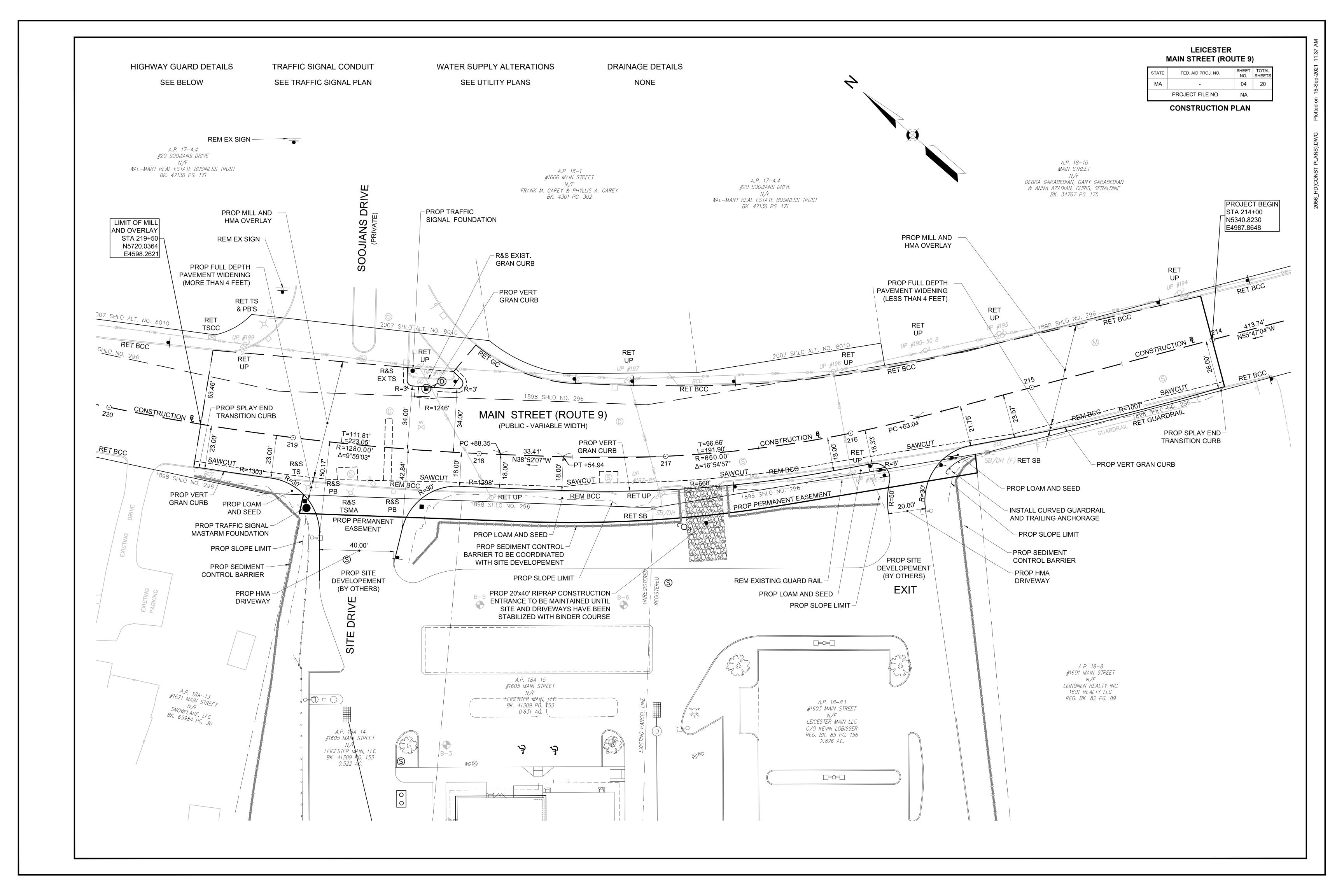


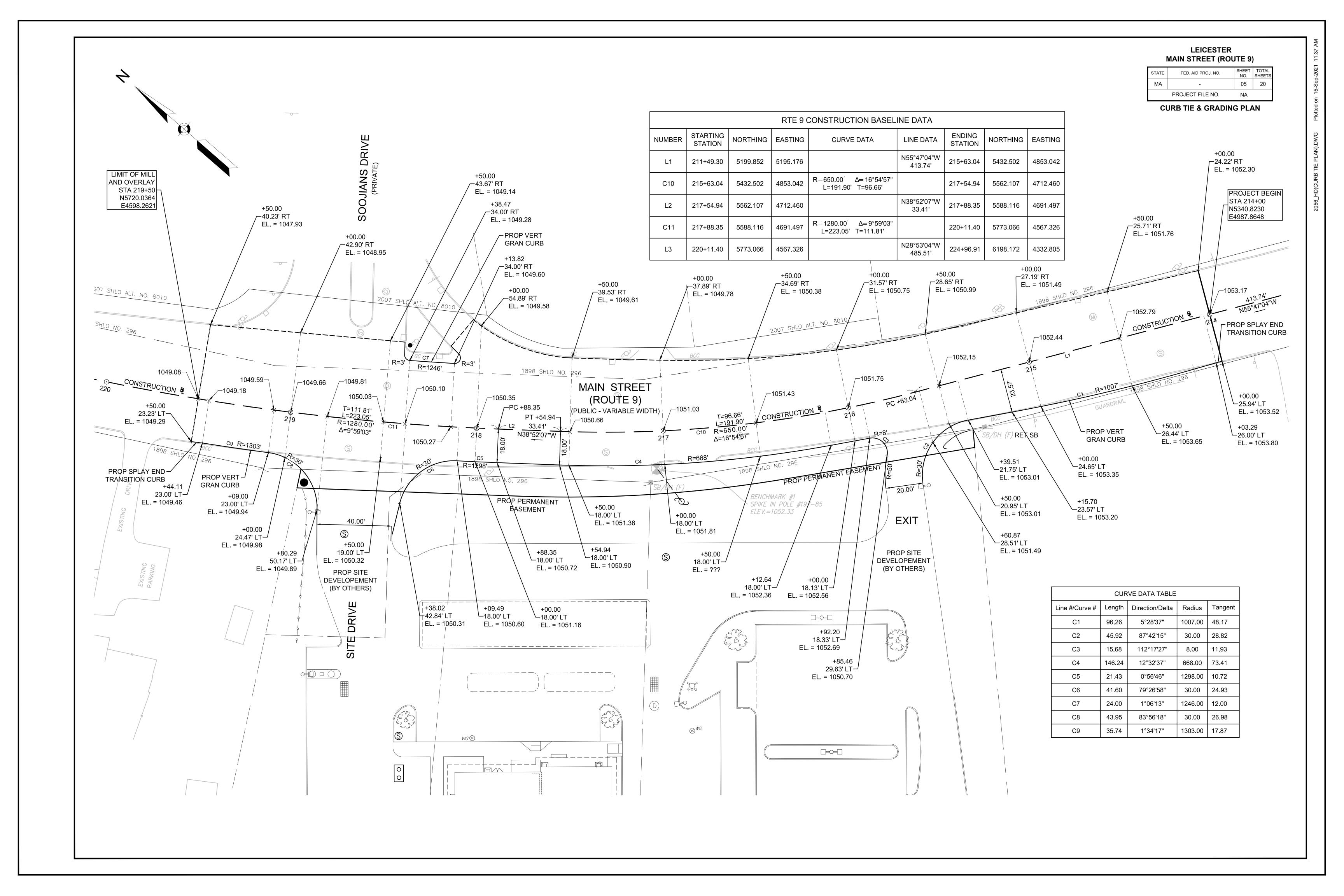


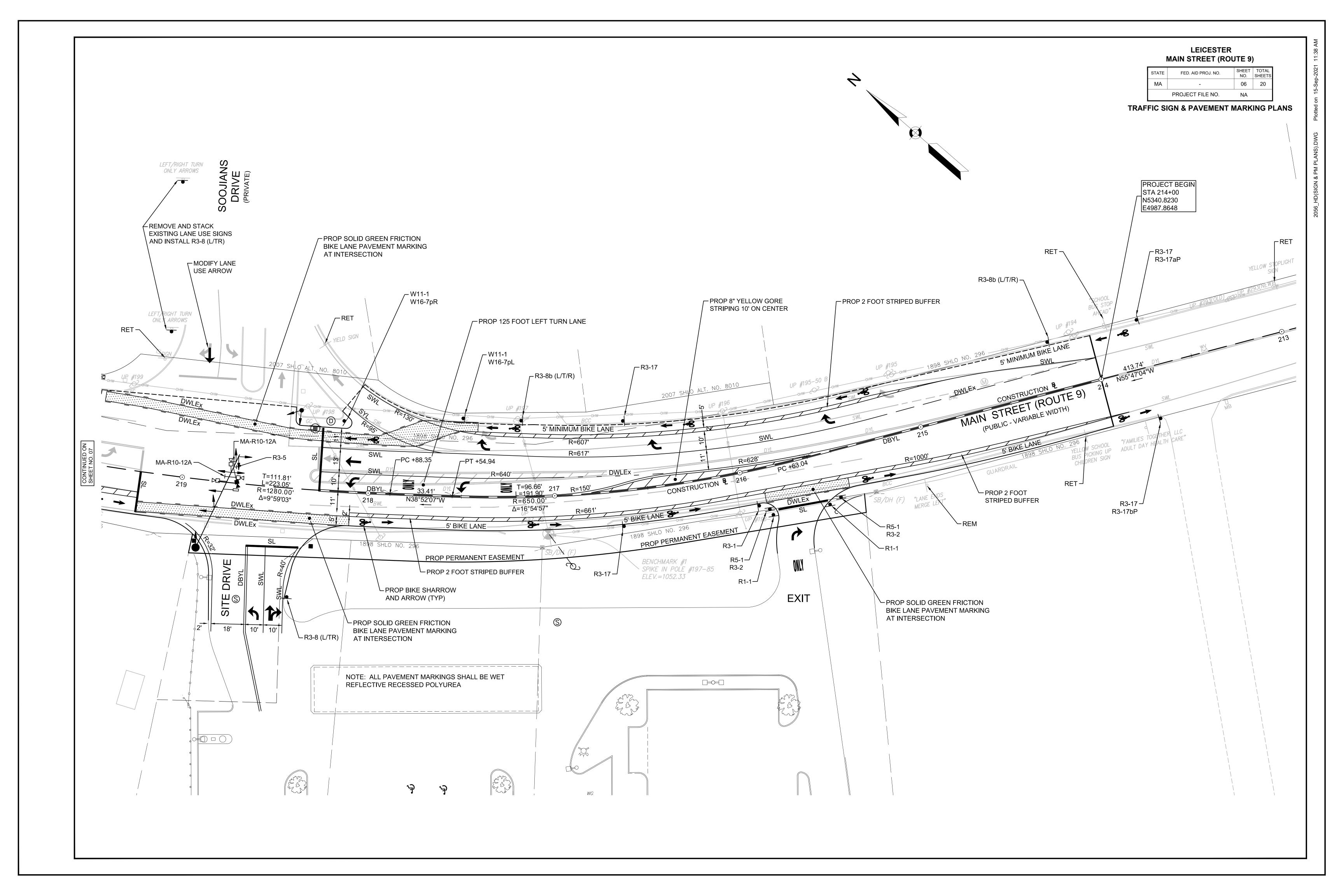
PAVEMENT MILLING & OVERLAY TRANSITION DETAIL

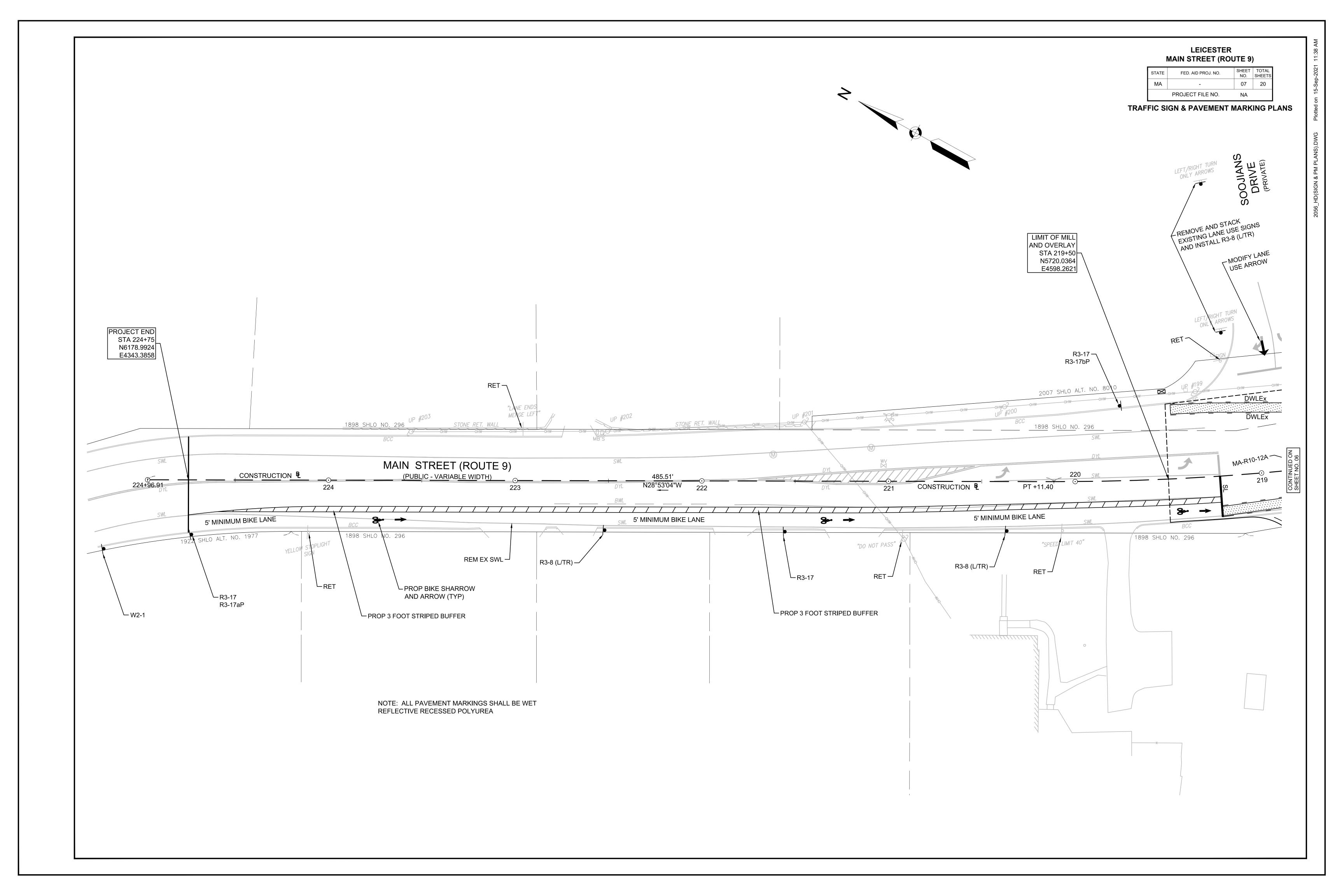
DEPTH PVMT

SCALE: NONE





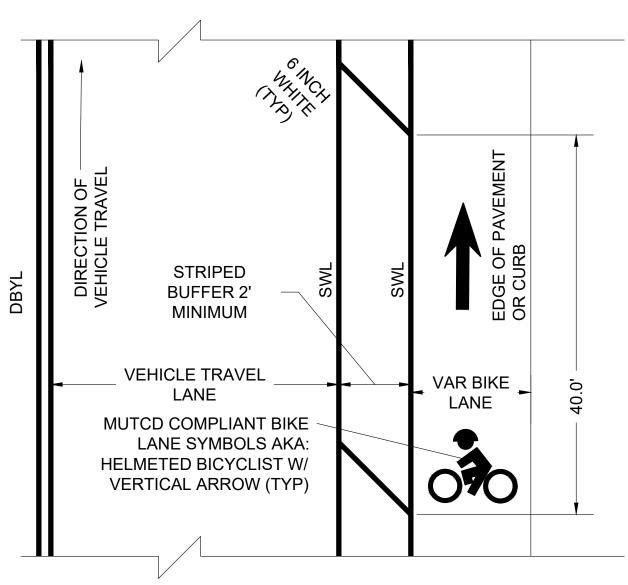




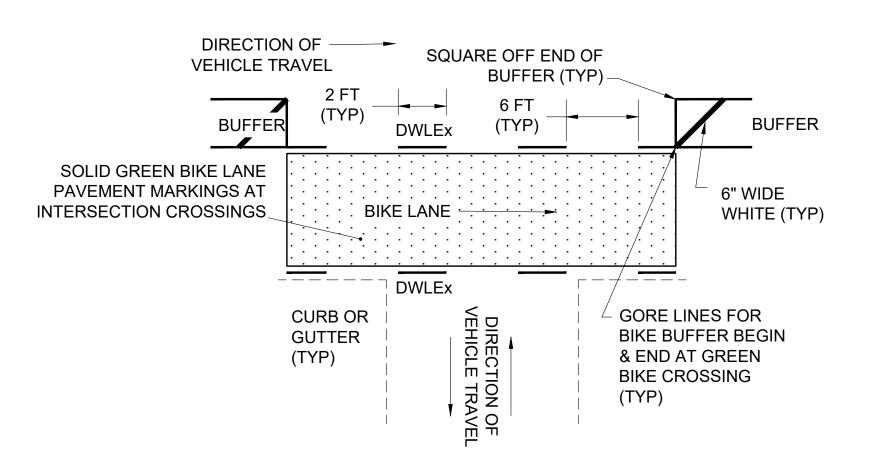
### TRAFFIC SIGN SUMMARY

	0.75	)E 01011		TEXT DIMENSIONS (INC	HES)						
IDENTIFI— CATION NUMBER	WIDTH	HEIGHT	TEXT	LETTER VERTICAL AF	ROW BACK- MKR. GROUNE	COLOR	BORDER	NO. OF SIGNS REQ.	POST SIZE AND NO. REQ.	UNIT AREA (S.F.)	ARE IN S.F
W11-1	30"	30"		SEE FHWA "STANDAR HIGHWAY SIGNS, 200 EDITION", AS AMENDE	4 YELLOW	BLACK	BLACK	2	P5-4	6.25	12.5
W16-7pR	24"	12"			YELLOW	BLACK	BLACK	1	1 - MTD W/ OTHERS	2.00	2.00
W16-7pL	24"	12"			YELLOW	BLACK	BLACK	1	1 - MTD W/ OTHERS	2.00	2.00
R1-1	30"	30"	STOP		RED	WHITE	WHITE	2	P5-2	5.18	10.3
R3-1	24"	24"			WHITE	RED/ BLACK	BLACK	1	P5-1	4.00	4.00
R3-2	24"	24"			WHITE	RED/ BLACK	BLACK	2	MOUNT W/ R5-1	4.00	8.00
R3-5	30"	36"	ONLY		WHITE	BLACK	BLACK	1	MOUNTED ON TS MASTARM	7.50	7.50
R3-8b (L/T/R)	48"	30"	ONLY THRU ONLY		WHITE	BLACK	BLACK	2	P5(2)-4	10.00	20.0
R3-8 (L/TR)	30"	30"	ONLY		WHITE	BLACK	BLACK	5	P5-5	6.25	31.2
R3-17bP	24"	8"	ENDS		WHITE	BLACK	BLACK	2	2-MTD W/ OTHERS	1.33	2.66
R3-17aP	24"	8"	AHEAD		WHITE	BLACK	BLACK	2	2 - MTD W/ OTHERS	1.33	2.60
R3-17	24"	18"	BIKE LANE		WHITE	BLACK	BLACK	7	P5-7	3.00	21.0
R5-1	30"	30"	DO NOT ENTER		WHITE	RED/ WHITE	BLACK	2	P5-2	6.25	12.5
MA-R10-12a	30"	36"	LEFT TURN YIELD ON FLASHING	PER MASSDOT STANDARDS	WHITE	BLACK YELLOW	BLACK	2	MOUNTED ON T.S. MASTARM	7.50	15.0

TOTAL = 151.53 S.F.



#### **BIKE LANE MARKINGS ADJACENT TO TRAVEL WAY**



BIKE LANE MARKINGS
THRU INTERSECTION

## **BIKE LANE PAVEMENT MARKINGS**

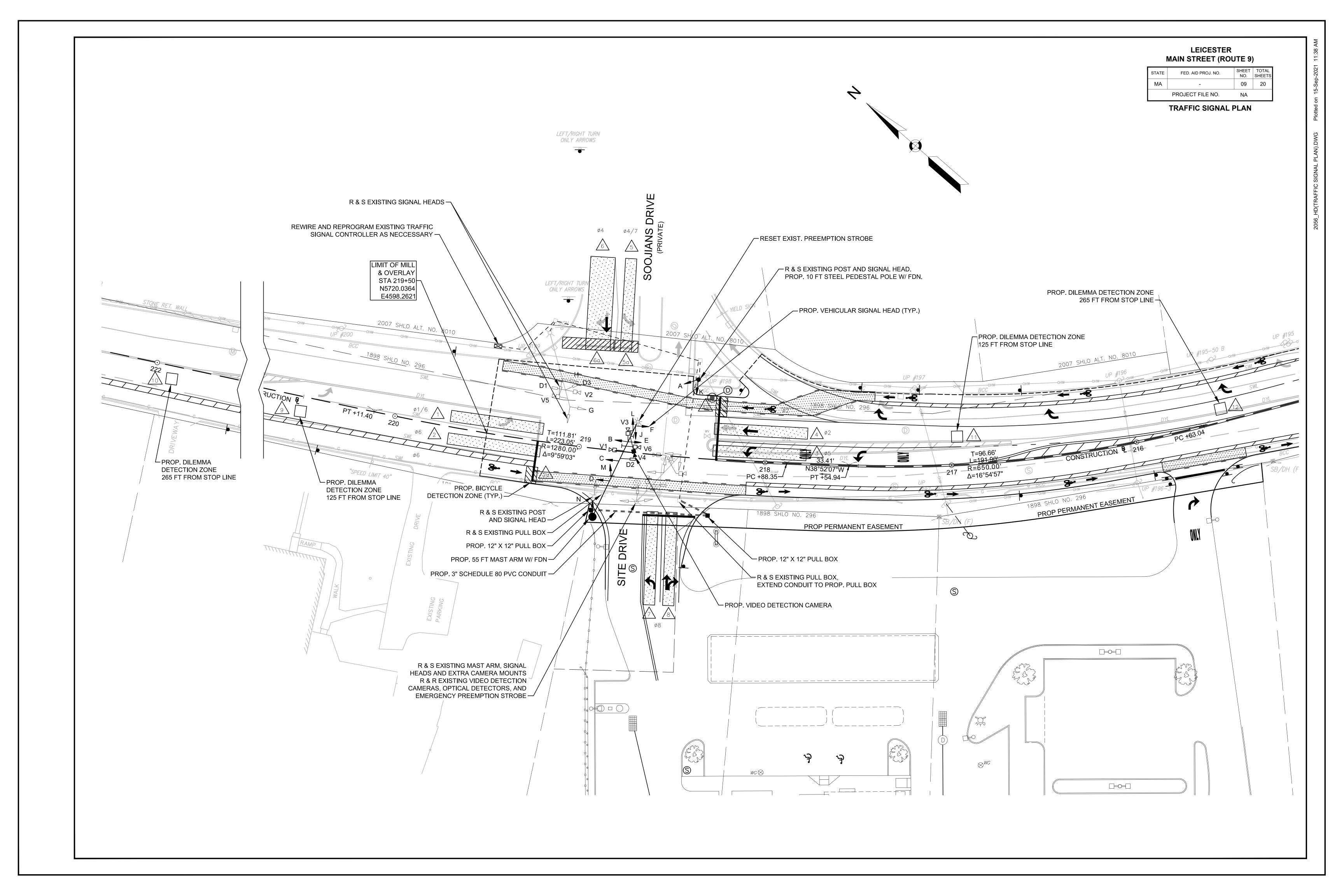
SCALE: NONE

BIKE LANE PAVEMENT MARKINGS NOTES:

1. SEE TYPICAL SECTIONS AND SIGN AND PAVEMENT MARKINGS PLANS FOR TRAVEL LANE, STRIPED BUFFER AND BIKE LANE WIDTHS.

2. MARK LEFT SIDE OF THE BIKE LANE
THROUGH INTERSECTIONS WITH DOTTED
WHITE LANE LINE EXTENSION PAVEMENT
MARKINGS, 2 FT DASH, 6 FT GAP.

3. INSTALL BIKE LANE SYMBOL AND ARROW AT INTERSECTION APPROACHES, AT THE BEGINNING OF THE BIKE LANE, AND AT 1000 FT INTERVALS (MAX).



S DR	<del> </del>									
<b>↓</b>	WALM	ø1	ø2	ø3	ø4	ø5	ø6	ø7	ø8	ø9
RT 9	SITE DRIVE LS NIPM		Y	NOT USED	Y	Y		Y		NOT USED

SEQUENCE AND TIMING FOR FULL	ACTUATED CON	ITROL (ISOL	ATED)																											
STREET	DIRECTION	HOUSINGS	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 OPER.
ROUTE 9 (MAIN ST)	EBL	A,B	GL	YL	*	RL	RL	RL				RL	RL	RL	RL	RL	RL	FYL	YL	RL	RL	RL	RL	RL	RL	RL				FRL
ROUTE 9 (MAIN ST)	EB	C,D	R	R	R	R	R	R				R	R	R	R	R	R	G	Υ	R	R	R	R	R	R	R				FY
ROUTE 9 (MAIN ST)	WBL	E	RL	RL	RL	RL	RL	RL				RL	RL	RL	GL	YL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL				FRL
ROUTE 9 (MAIN ST)	WB	F,G,H	R	R	R	G	Y	R				R	R	R	R	R	R	R	R	R	R	R	R	R	R	R				FY
SITE DRIVEWAY	NB	J,K	R	R	R	R	R	R				R	R	R	R	R	R	R	R	R	R	R	R	G	Υ	R				FR
SOOJIANS DRIVE	SBL	L	RL	RL	RL	RL	RL	RL				FYL	YL	RL	RL	RL	RL	RL	RL	RL	GL	YL	**	RL	RL	RL				FRL
SOOJIANS DRIVE	SB	M,N	R	R	R	R	R	R				G	Υ	R	R	R	R	R	R	R	R	R	R	R	R	R				FR
																													$\square$	
																													$\square$	
							NG IN	SECC	NDS				1																1	
MINIMUM GREEN (INITIAL)			8			10						6			6			10			6			6						
PASSAGE TIME (VEHICLE)			3			3						3			3			3			3			3						
MAXIMUM 1 (ALL OTHER TIMES)			20			35						14			13			43			_			14						
MAXIMUM 2 (12PM-8PM - ALL DA	YS)		22			40						37			17			46			16			15					$\square$	
YELLOW CLEARANCE				3.5			5						3.5			4			4.5			3			3.5				$\square$	EMERGENCY ONLY
RED CLEARANCE					2.5			2						2.5			1.5			2.5			2.5			2.5			$\square$	GEN
WALK (W)																													$\square$	AER O
PEDESTRIAN CLEARANCE																														ĹŪ
																													$\Box$	
RECALL				OFF		<u> </u>	SOFT						OFF			OFF			SOFT			OFF			OFF					
MEMORY			NC.	N-LO	CK	NO.	N-LO	CK				NC	N-LO	CK	NO	N-LO	CK	NO	N-LO	CK	NO	N-LO	CK	NC.	N-LO	CK				

#### **LEICESTER** MAIN STREET (ROUTE 9)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS	
MA	-	Х	XX	
	PROJECT FILE NO.	NA		

TRAFFIC SIGNAL DATA

		MAJOR ITEMS REQUIRED
PAY ITEM	QUANTITY	ITEM
	1	REWIRE/REPROGRAM EXISTING TRAFFIC SIGNAL CONTROLLER
	1	55FT TYPE II GALV. STEEL MAST ARM W/FDN
	1	10FT PEDESTAL POLE, STEEL, W/FDN
	8	SIGNAL HEAD 3-SECTION 12"LED W/5" FLAT BACK PLATE AND 3" YELLOW RETROFLECTIVE BORDE
	3	SIGNAL HEAD 4-SECTION 12"LED W/5" FLAT BACK PLATE AND 3" YELLOW RETROFLECTIVE BORDE
	2	5" FLAT BACK PLATE WITH 3" YELLOW RETROFLECTIVE BORDER
	1	VIDEO DETECTION CAMERA W/ MOUNTING HARDWARE
	1	2-CHANNEL VIDEO DETECTION PROCESSOR
816.01		
804.3	80 FT	3" SCHEDULE 80 PVC CONDUIT
811.31	2	PULLBOX 12" X 12"
		PLUS ALL NECESSARY DUCT, CABLE, LABOR, MISCELLANEOUS
		MATERIAL AND EQUIPMENT INCLUDING LOAD SWITCHES TO COMPLETE THE INSTALLATION.

- 1. THE CONTRACTOR SHALL REMOVE AND STACK THE EXISTING
- 1-CHANNEL VIDEO PROCESSOR.
- 2. THE CONTRACTOR SHALL UTILIZE THE EXISTING SPARE 2-CHANNEL VIDEO PROCESSOR IN THE CABINET.

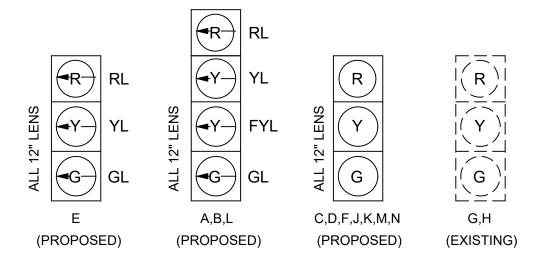
#### VIDEO DETECTOR DATA

ZONE	ZONE SIZE	CAMERA	DELAY/ EXTEND	ø CALL	ø EXTENDED
$\triangle$	6' X 50'	V1	0/0	ø1	ø1/6
<u> </u>	6' X 50'	V1	0/0	ø6	ø6
<u>\$</u>	6' X 50'	V2	0/0	ø5	ø5
4	6' X 50'	V2	0/0	<b>ø</b> 2	ø2
<u>\$</u>	6' X 50'	V3	0/0	ø4/7	ø4/7
<u> </u>	14' X 50'	V3	0/0	ø4	ø4
$\triangle$	6' X 50'	V4	0/0	ø8	ø8
<u> </u>	6' X 50'	V4	0/0	ø8	ø8
<b>2</b> ∆∗	7' X 6'	V1	0/0	ø6	ø6
40.*	10' X 6'	V2	0/0	ø2	ø2
<i>≨</i> ∆*	13' X 6'	V3	0/0	ø4/7	ø4/7
<b>6a</b> *	30' X 6'	V3	0/0	ø4	ø4
Á	6' X 6'	V5	0/2	ø6	ø6
$\triangle$	6' X 6'	V5	0/2.2	ø6	ø6
Â	6' X 6'	V6	0/2	ø2	ø2
$\Delta$	6' X 6'	V6	0/2.2	ø2	ø2

* CAPABLE OF BICYCLE DETECTION.

1. ALL VIDEO DETECTION CAMERAS AND VIDEO DETECTION ZONES TO BE FIELD ADJUSTED BY THE CONTRACTOR AS NECESSARY.

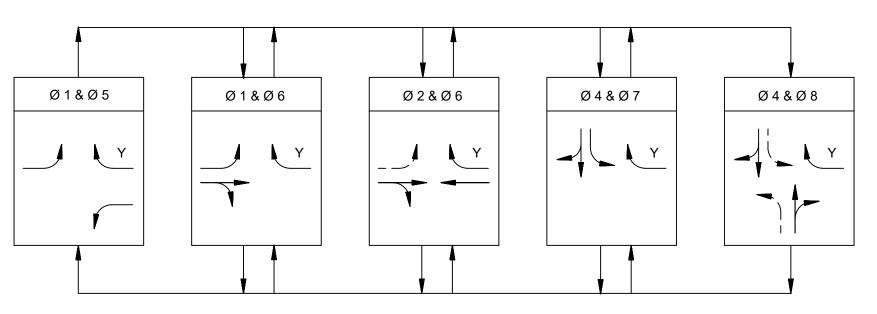
#### SIGNAL IDENTIFICATION



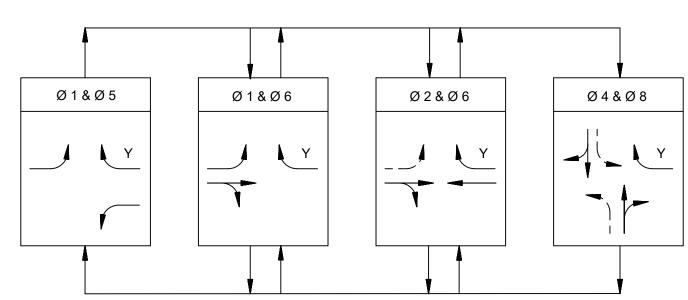
#### NOTES:

- 1. ALL SIGNALS SHALL HAVE 12" LED WITH 5" FLAT BACK PLATES AND 3" YELLOW RETROFLECTIVE BORDERS.
- 2. ALL PROPOSED SIGNALS SHALL HAVE CUT AWAY TUNNEL VISORS.

#### PREFERENTIAL PHASING SEQUENCE - 12PM-8PM (ALL DAYS)



#### PREFERENTIAL PHASING SEQUENCE - ALL OTHER TIMES



NOTES: 1. ANY PHASE OR PHASE COMBINATION NOT CALLED SHALL BE SKIPPED.

#### FIRE PREEMPTION SCHEDULE

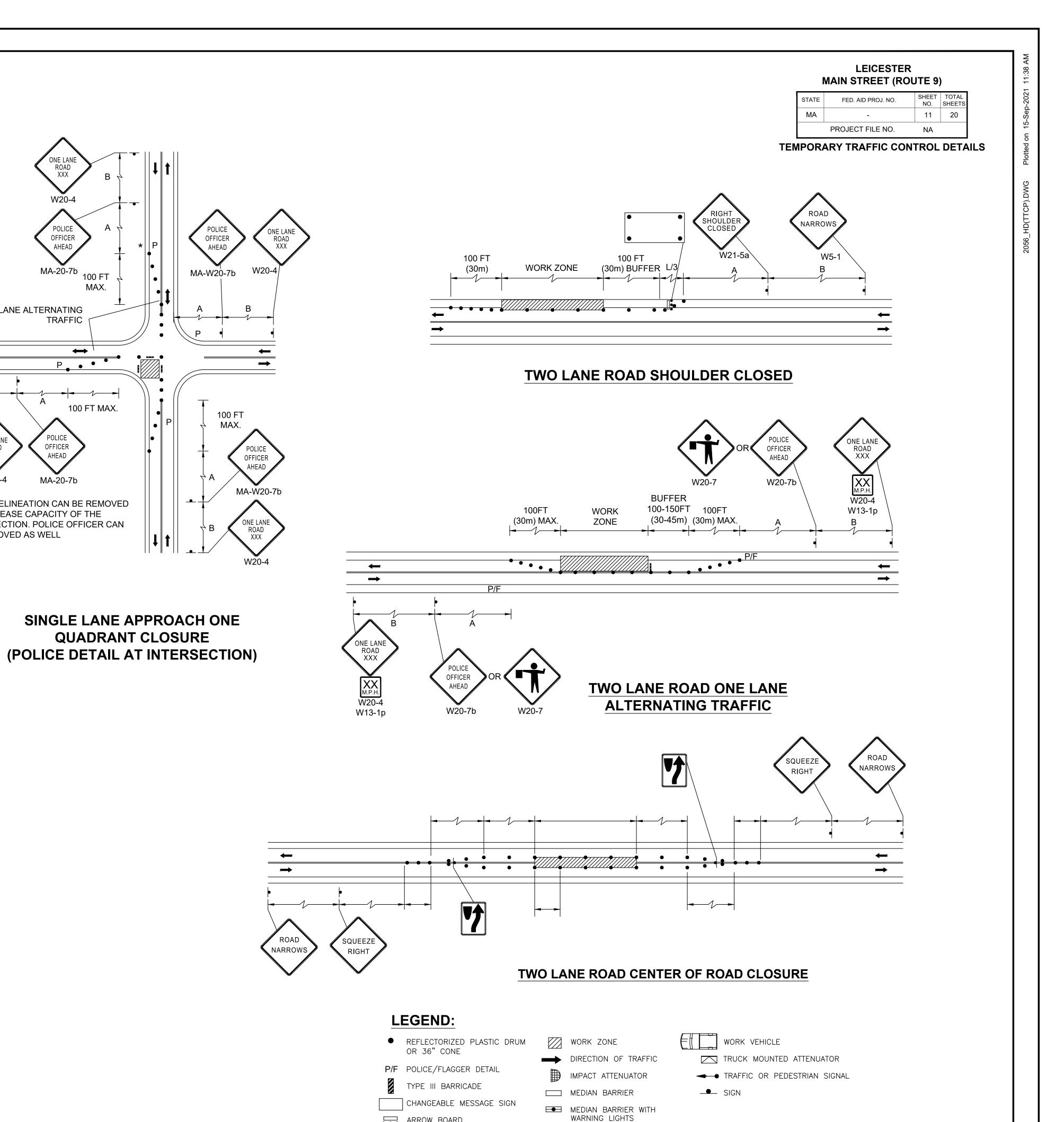
DETECTOR NO.	APPROACH	PREEMPTION PHASE	NEXT PHASE CALLED
D1	EASTBOUND	1+6	2+6
D2	WESTBOUND	2+5	2+6
D3	SOUTHBOUND	4+7	2+6

#### EMERGENCY VEHICLE PREEMPTION OPERATION:

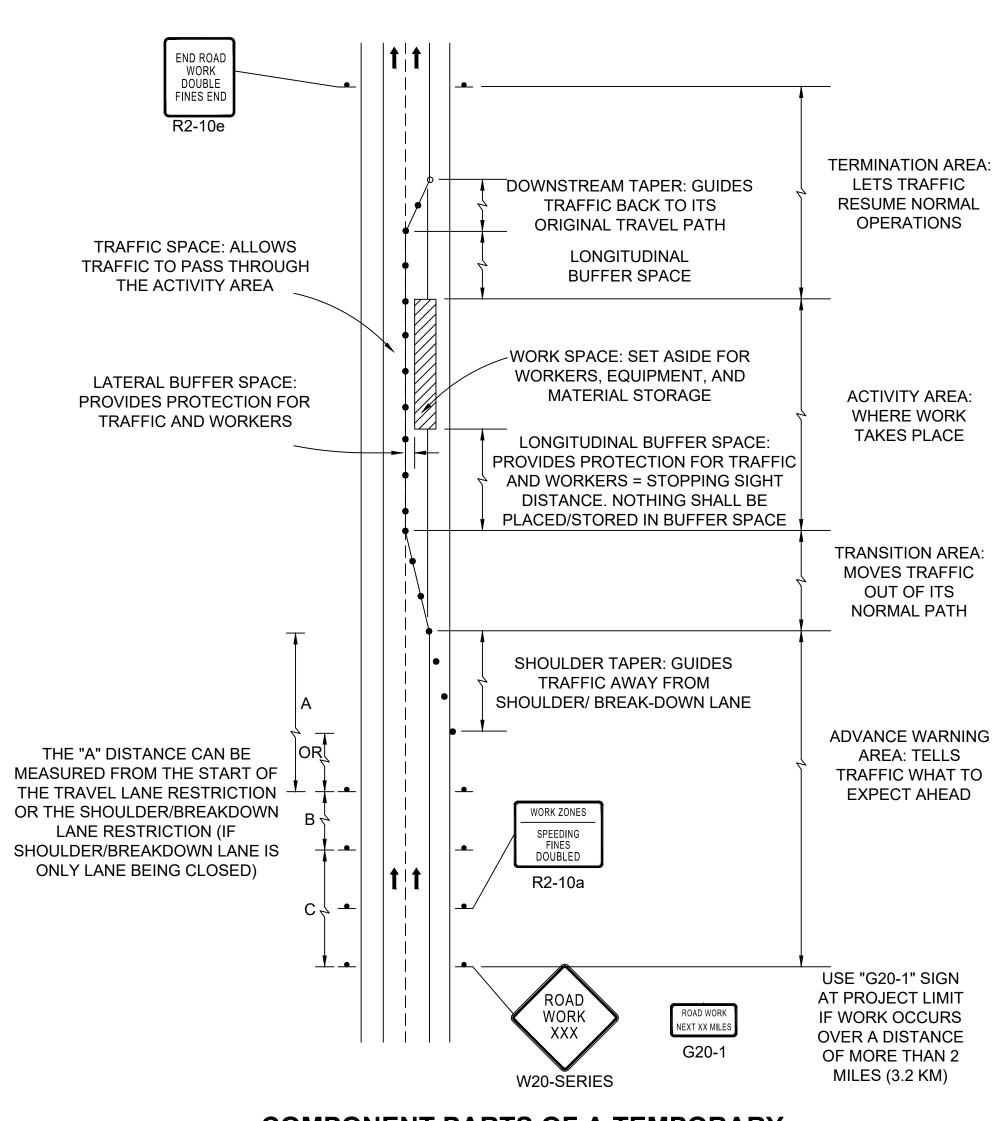
- 1. EMERGENCY VEHICLE PREEMPTION SHALL BE ACTUATED BY AN OPTICAL SIGNAL FROM AN OPTICAL EMITTER MOUNTED ON AN EMERGENCY VEHICLE AND RECEIVED BY AN OPTICAL DETECTOR LOCATED AT INTERSECTION. A SEPARATE RECEIVING DETECTOR IS REQUIRED FOR EACH DETECTED APPROACH.
- 2. PREEMPTION SIGNALS FROM MULTIPLE APPROACHES SHALL BE SERVICED ON A FIRST DETECTED FIRST SERVED BASIS.
- 3. IN RESPONSE TO A PREEMPTION SIGNAL RECEIVED AT AN INTERSECTION BY AN OPTICAL DETECTOR, THE CONTROLLER SHALL TIME THE CLEARANCE INTERVALS OF THE ACTIVE PHASE (IF DIFFERENT THAT TO BE SERVICED) AND ADVANCE TO AND/OR HOLD IN EMERGENCY VEHICLE PREEMPTION PHASE UNTIL PREEMPTION SIGNAL CEASES. THE CONTROLLER SHALL THEN TIME CLEARANCES AND SIMILARLY SERVICE OTHER EMERGENCY VEHICLE PREEMPTION SEQUENCES IN THE ORDER RECEIVED (IF RECEIVED) OTHERWISE, RESUME NORMAL PREFERENTIAL PHASE SEQUENCE.
- PREEMPTION MINIMUM GREENS SHALL BE TEN SECONDS. NORMAL CLEARANCES SHALL BE PROVIDED ON PHASES THAT
- ARE TERMINATED BY PREEMPTION DEMAND. 6. ACTUAL TIMMING FOR PREEMPTION SHALL BE DETERMINED IN THE FIELD IN COORDINATION WITH THE FIRE DEPARTMENT AND SHALL BE APPROVED BY MASSDOT PRIOR TO OPERATION.

^{*} FLASHING YELLOW LEFT (FYL) IF PHASE 2 FOLLOWS, OTHERWISE RED LEFT (RL) ALL OTHER PHASES. ** FLASHING YELLOW LEFT (FYL) IF PHASE 4+8 FOLLOWS, OTHERWISE RED LEFT (RL) ALL OTHER PHASES.

NOTES: 1. FLASHING OPERATION PER MUTCD.



ARROW BOARD



W20-4

OFFICER AHEAD

TRAFFIC

OFFICER

* THIS DELINEATION CAN BE REMOVED

INTERSECTION. POLICE OFFICER CAN

TO INCREASE CAPACITY OF THE

BE REMOVED AS WELL

ONE LANE ALTERNATING

MA-20-7b 100 FT

MAX.

100 FT MAX.

#### **COMPONENT PARTS OF A TEMPORARY** TRAFFIC CONTROL (TTC) ZONE

#### SUGGESTED WORK ZONE WARNING SIGN SPACING

ROAD TYPE	DIST	ANCE BETWEEN SIG	GNS **
ROAD TIPE	А	В	С
LOCAL OR LOW VOLUME ROADWAYS	350 (100)	350 (100)	350 (100)
MOST OTHER ROADWAYS	500 (150)	500 (150)	500 (150)
FREEWAYS AND EXPRESSWAYS	1,000 (300)	1,500 (450)	2,640 (800)

DISTANCES ARE SHOWN IN FEET (METERS). THE COLUMN HEADINGS A, B, AND C ARE THE DIMENSIONS SHOWN IN THE DETAIL/ TYPICAL SETUP FIGURES. THE A DIMENSION IS THE DISTANCE FROM THE TRANSITION OR POINT OF RESTRICTION TO THE FIRST SIGN. THE B DIMENSION IS THE DISTANCE BETWEEN THE FIRST AND SECOND SIGNS. THE C DIMENSION IS THE DISTANCE BETWEEN THE SECOND AND THIRD SIGNS. (THE "THIRD" SIGN IS THE FIRST ONE TYPICALLY ENCOUNTERED BY A DRIVER APPROACHING A TEMPORARY TRAFFIC CONTROL (TTC) ZONE.)

THE "THIRD" SIGN ABOVE IS TYPICALLY REFERRED TO AS AN "ADVANCE WARNING" SIGN ON THE TTCP SETUPS. THESE ADVANCE WARNING SIGNS ARE LOCATED PRIOR TO THE PROJECT LIMITS ON ALL APPROACHES (i.e. THE W20-1 SERIES (ROAD WORK XX FT) SIGNS), AND USUALLY REMAIN FOR THE DURATION OF THE PROJECT. ADDITIONAL SIGNS (i.e. "RIGHT LANE CLOSED 1 MILE" AND "LEFT LANE CLOSED 1 MILE") HAVE BEEN SHOWN IN SOME FIGURES ÀS EXAMPLES OF REINFORCEMENT SIGN PLACEMENT BUT ARE USED IN RARE OCCASIONS.

THE FIRST AND SECOND WARNING SIGNS ABOVE ARE REFERRED TO AS THE OPERATIONAL (DAY-TO-DAY) WORK ZONE SIGNS AND MAY BE MOVED DEPENDING ON WHERE THE SPECIFIC ROADWAY WORK FOR THAT DAY IS

R2-10a SIGNS SHALL BE PLACED BETWEEN THE SECOND AND THIRD SIGNS AS DESCRIBED ABOVE.

R2-10a, R2-10e, AND W20-1 SERIES SIGNS ARE TO BE INCLUDED ON ALL DETAILS/TYPICAL SETUPS.

#### TEMPORARY TRAFFIC CONTROL SIGN SUMMARY

IDENTIFI—		F SIGN HES)		TEXT DIMENSIONS (INCHES)		ES)	NUMBER OF	COLOR				UNIT	TOTAL			
CATION NUMBER	WIDTH	HEIGHT	TEXT	LETTER HEIGHT		RTICAL PACING	ARF RTE.	ROW MKR.	SIGNS REQUIRED	BAC GRO	K– UND	LEG	END	BORDER	AREA (S.F.)	AREA (S.F.)
R2-10a	48	36	WORK ZONE SPEEDING FINES DOUBLED	SEE M	MASSD	OT STA	ANDARI	os	2	S	SEE	MASS	DOT	STDS	12	48
R2-10e	36	48	END ROAD WORK DOUBLE FINES END	SEE M	MASSD	OT STA	NDARI	os	2	S	SEE	MASS	DOT	STDS	12	48
R4-7	24	30	7	SEE	MUTC	D STAI	NDARDS	S 	2	SEI	E MU	JTCD	STAN	NDARDS	5	10
W5-1	36	36	ROAD NARROWS						2						9	18
W20-1a	36	36	ROAD WORK AHEAD						2						9	18
W20-1b	36	36	ROAD WORK 1000 FT						2						9	18
W13-1p	24	30	XX						2						5	15
W20-4	36	36	ONE LANE ROAD AHEAD	<b>V</b>		¥		1	2	V	1		1	*	9	27
W20-7b	36	36	POLICE OFFICER AHEAD	SEE N	MASSD	OT STA	NDARI	os	2	5	SEE	MASS	DOT	STDS	9	27
W20-7	36	36		SEE N	MASSD	OT STA	NDARI	os	2	S	SEE	MASS	SDOT	STDS	9	18
W21-5a	36	36	RIGHT SHOULDER CLOSED	SEE MUTCD STANDARDS		1	SEE MUTCD STANDARDS			9	9					
W30-8R	36	36	SQUEEZE RIGHT	SEE N	MASSD	OT STA	NDARI	os	2	S	SEE	MASS	SDOT	STDS	9	18

## LEICESTER MAIN STREET (ROUTE 9)

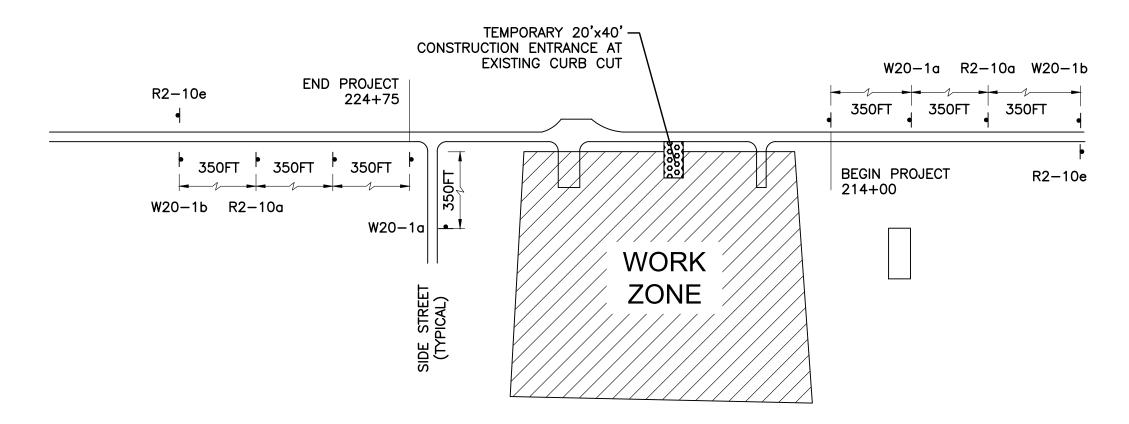
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS	
MA	-	12	20	
	PROJECT FILE NO.	NA		

TEMPORARY TRAFFIC CONTROL SIGN SUMMARY

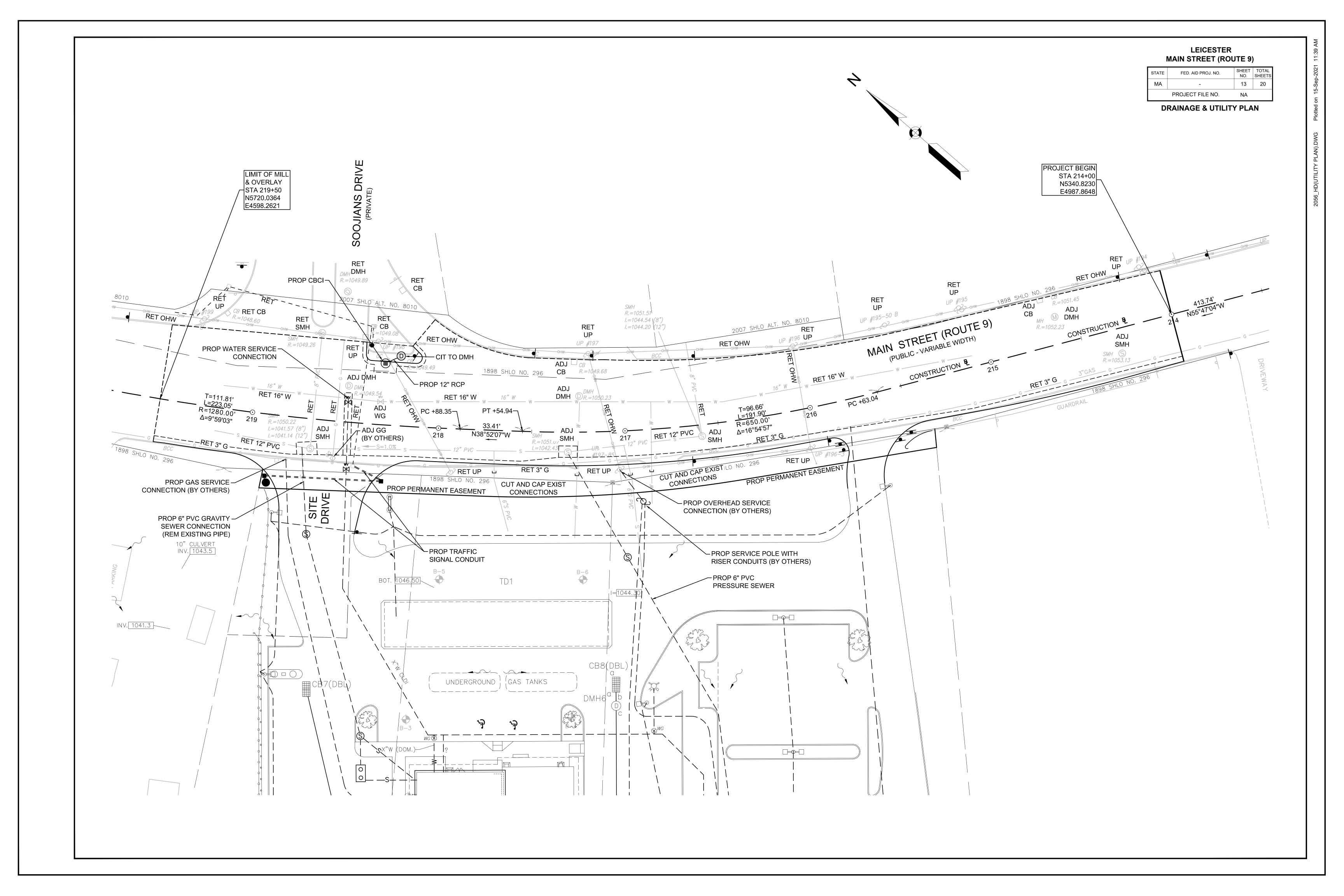
#### **NOTES:**

- 1. ALL TEMPORARY TRAFFIC CONTROL WORK SHALL CONFORM TO THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) AND ALL REVISIONS, UNLESS SUPERCEDED BY THESE PLANS.
- 2. ALL SIGN LEGENDS, BORDERS, AND MOUNTING SHALL BE IN ACCORDANCE WITH THE
- 3. TEMPORARY CONSTRUCTION SIGNING AND ALL OTHER TRAFFIC CONTROL DEVICES SHALL BE IN PLACE PRIOR TO THE START OF ANY WORK.
- 4. TEMPORARY CONSTRUCTION SIGNING, BARRICADES, AND ALL OTHER NECESSARY WORK ZONE TRAFFIC CONTROL DEVICES SHALL BE REMOVED FROM THE HIGHWAY OR COVERED WHEN THEY ARE NOT REQUIRED FOR CONTROL OF TRAFFIC.
- 5. SIGNS AND SIGN SUPPORTS LOCATED ON OR NEAR THE TRAVELED WAY, CHANNELIZING DEVICES, BARRIERS, AND CRASH ATTENUATORS MUST PASS THE CRITERIA SET FORTH IN NCHRP REPORT 350, "RECOMMENDED PROCEDURES FOR THE SAFETY PERFORMANCE EVALUATION OF HIGHWAY FEATURES" AND/OR "MANUAL FOR ASSESSING SAFETY HARDWARE" (MASH).
- 6. CONTRACTORS SHALL NOTIFY EACH ABUTTER AT LEAST 24 HOURS IN ADVANCE OF THE START OF ANY WORK THAT WILL REQUIRE THE TEMPORARY CLOSURE OF ACCESS, SUCH AS CONDUIT INSTALLATION, EXISTING PAVEMENT EXCAVATION, TEMPORARY DRIVEWAY PAVEMENT PLACEMENT, AND SIMILAR OPERATIONS.
- 7. THE FIRST FIVE PLASTIC DRUMS OF A TAPER SHALL BE MOUNTED WITH TYPE A LIGHTS.
- 8. THE ADVISORY SPEED LIMIT, IF REQUIRED, SHALL BE DETERMINED BY THE ENGINEER.
- 9. DISTANCES ARE A GUIDE AND MAY BE ADJUSTED IN THE FIELD BY THE ENGINEER.
- 10. MAXIMUM SPACING OF TRAFFIC DEVICES IN A TAPER (DRUMS OR CONES) IS EQUAL IN FEET TO THE SPEED LIMIT IN MPH.
- 11. MINIMUM LANE WIDTH IS TO BE 11 FEET (3.3m) UNLESS OTHERWISE SHOWN. MINIMUM LANE WIDTH TO BE MEASURED FROM THE EDGE OF DRUMS OR MEDIAN BARRIER.
- 12. ALL SIGNS SHALL BE MOUNTED ON THEIR OWN STANDARD SIGN SUPPORTS.
- 13. PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE MASSDOT PERMITS ENGINEER WITH A SCHEDULE OF PROPOSED CONSTRUCTION ACTIVITY AND ALL REQUIRED LANE CLOSURES AND/OR TRAFFIC CONTROL TO BE IMPLEMENTED FOR APPROVAL BY MASSDOT BEFORE ANY CONSTRUCTION ACTIVITY CAN TAKE PLACE.
- 14. NO LANE CLOSURES WILL BE PERMITTED BETWEEN THE HOURS OF 6-9AM AND 2-6PM WEEKDAYS.
- 15. TRAFFIC FLOW ENTERING AND EXITING SITE DURING CONSTRUCTION SHALL REMAIN AS A RIGHT TURN ENTRANCE AND RIGHT TURN EXIT ONLY UNTIL TRAFFIC SIGNAL WORK COMPLETED.

#### MAIN STREET (ROUTE 9)



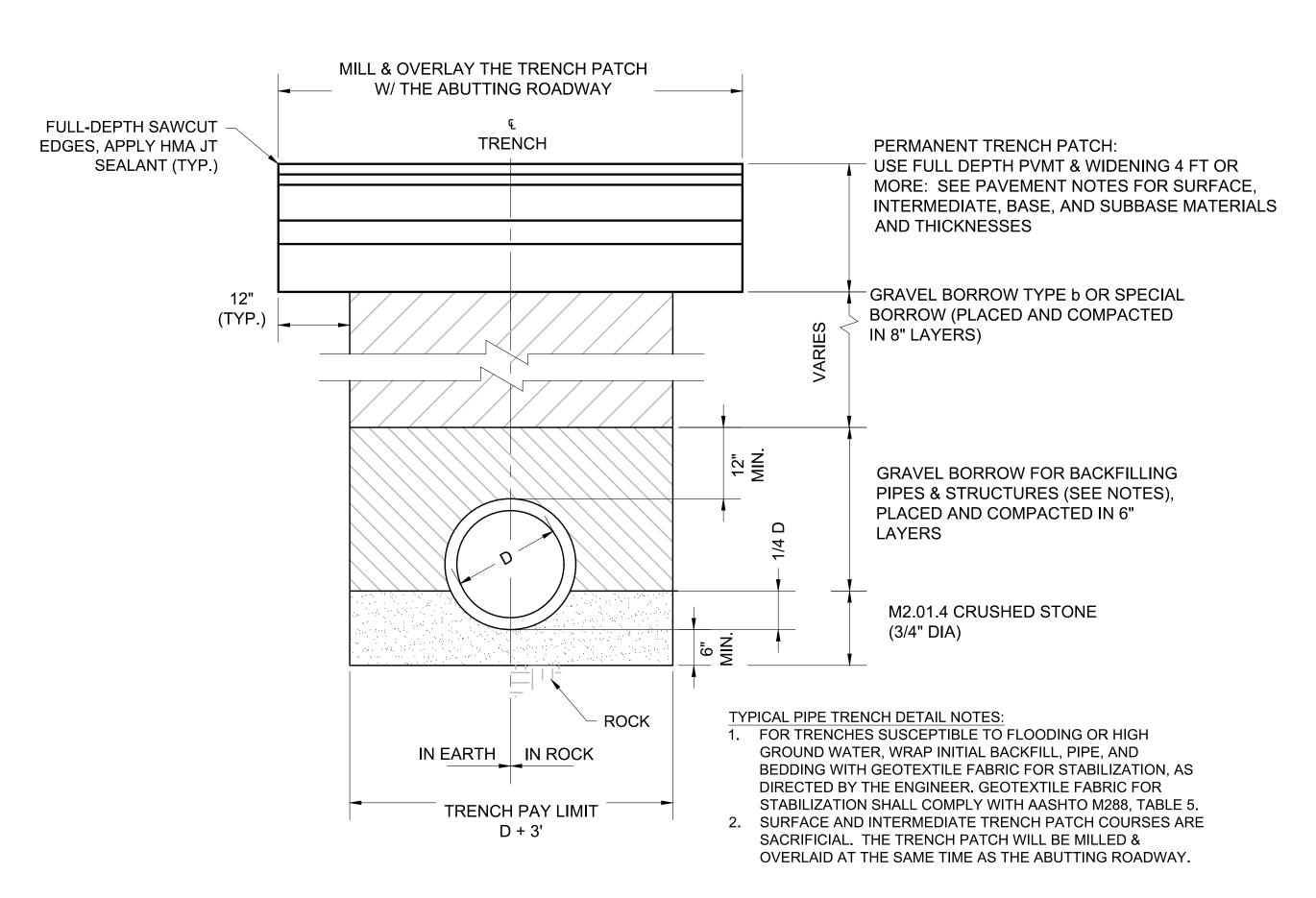
## PERMANENT PROJECT CONSTRUCTION SIGNING NOT TO SCALE



## LEICESTER MAIN STREET (ROUTE 9)

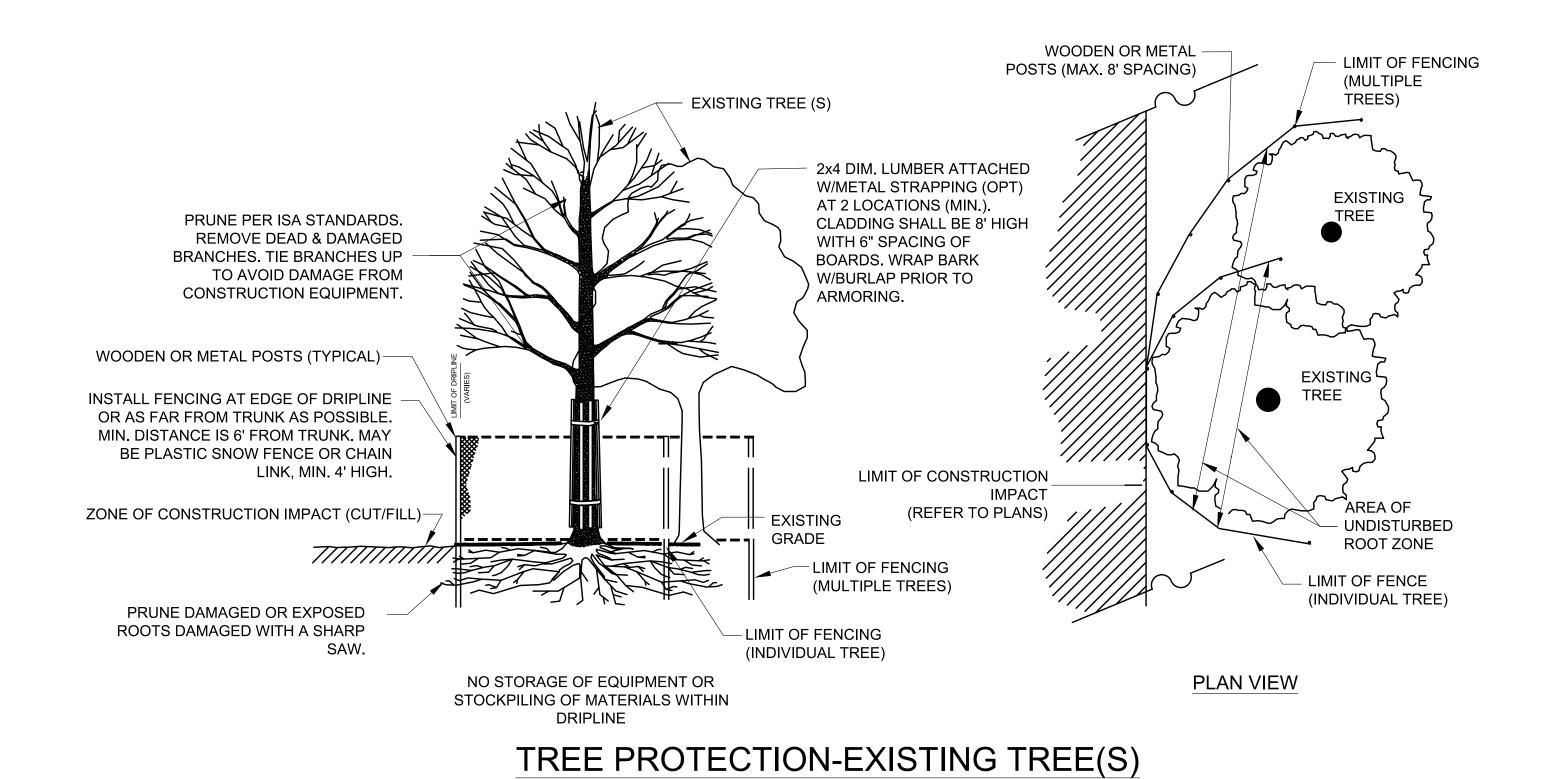
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS	
MA	-	14	20	
	PROJECT FILE NO.	NA		

**CONSTRUCTION DETAILS** 

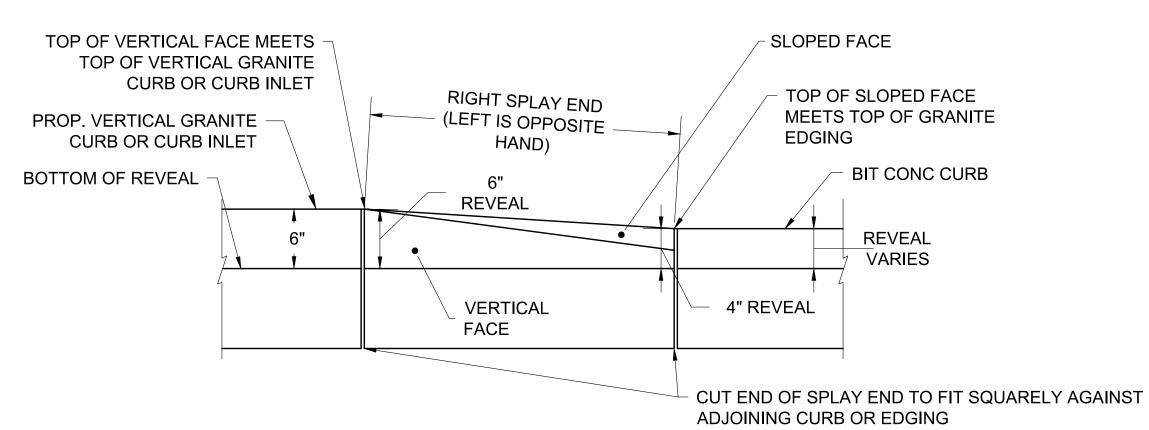


#### TYPICAL PIPE TRENCH DETAIL

SCALE: NONE



SCALE: NONE



#### NOTES:

- 1. SPLAY END INSTALLED TO THE RIGHT OF THE VERTICAL CURB IS SHOWN (LOOKING AT THE
- FACE). SPLAY END INSTALLED TO THE LEFT OF THE VERTICAL CURB IS OPPOSITE HAND.

  2. SPLAY ENDS TO BE USED AT ALL LOCATIONS BETWEEN GRANITE EDGING AND VERTICAL GRANITE CURB OR CURB INLET.
- 3. LENGTH OF SECTION OF SP;AY END SHALL COMPLY WITH THE LENGTH SPECIFIED FOR
- GRANITE CURB TYPE VA4.
- 4. THERE SHALL BE NO CUTTING OF STONE IN THE FIELD.

#### GRANITE CURB SPLAY END

SCALE: NONE