MASSACHUSETTS DEPARTMENT OF TRANSPORTATION
HIGHWAY DIVISION

SOUTHBRIDGE
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/HSI-0033(042)X	1	91
PROJECT FILE NO.	608778		

TITLE SHEET & INDEX

PLAN AND PROFILE OF

INTERSECTION IMPROVEMENTS AT CENTRAL STREET, FOSTER STREET, HOOK STREET, AND HAMILTON STREET

IN THE TOWN OF

SOUTHBRIDGE

WORCESTER COUNTY

FEDERAL AID PROJECT NO. STP/CMQ/HSI-0033(042)X

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

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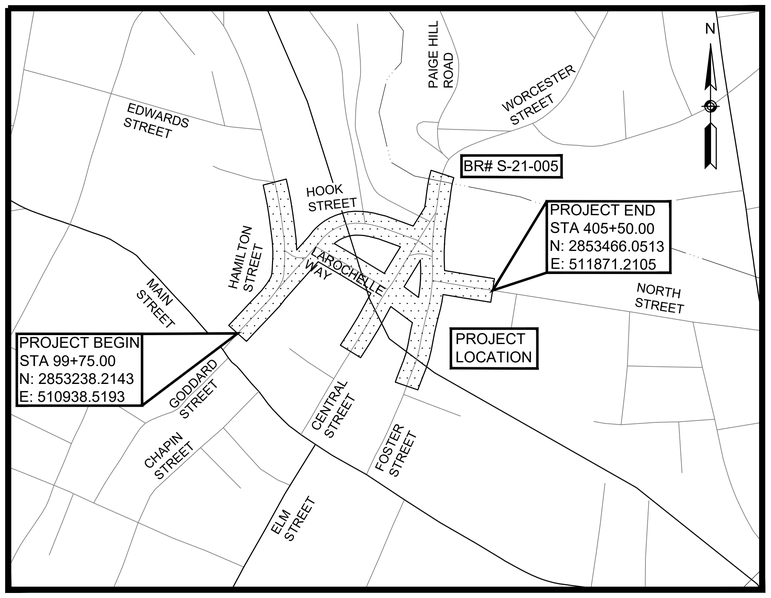

0 300 600 900 1,200

SCALE: 1" = 300'

LENGTH OF PROJECT = 2,520.12 FEET = 0.477 MILES

DESIGN DESIGNATION (CENTRAL STREET)

DESIGN SPEED	35 MPH
POSTED SPEED	30 MPH
ADT (2021)	8,625
ADT (2031)	9,066
K	8%
D	62.7% NB
T (PEAK HOUR)	2.00%
T (AVERAGE DAY)	2.00%
DHV	725
DDHV	455
FUNCTIONAL CLASSIFICATION	MINOR URBAN ARTERIAL

DESIGN DESIGNATION (LAROCHELLE WAY)

DESIGN SPEED	30 MPH
POSTED SPEED	30 MPH
ADT (2021)	2,348
ADT (2031)	2,468
K	11%
D	80.4% EB
T (PEAK HOUR)	3.6%
T (AVERAGE DAY)	2.7%
DHV	272
DDHV	218
FUNCTIONAL CLASSIFICATION	LOCAL ROADWAY

DESIGN DESIGNATION (HAMILTON STREET)

DESIGN SPEED	20 MPH
POSTED SPEED	
ADT (2021)	10,335
ADT (2031)	10864
K	9 %
D	51.8% SB
T (PEAK HOUR)	2.80%
T (AVERAGE DAY)	2.80%
DHV	978
DDHV	506
FUNCTIONAL CLASSIFICATION	MINOR COLLECTOR

COMMONWEALTH OF MASSACHUSETTS
GREGORY J. RUSSELL
CIVIL
No. 47629
REGISTERED PROFESSIONAL ENGINEER

Russell, Gregory Digitally signed by Russell, Gregory Date: 2025.05.29 10:42:07 -04'00'

vhb
120 Front Street
Suite 500
Worcester, MA 01604
508.752.1001

DATE	DESCRIPTION	REV #

MassDOT
Massachusetts Department of Transportation
Highway Division

APPROVED

Carrie Lavallee, P.E. — Carrie Lavallee, P.E. 2025.06.05 08:24:21 -04'00'

06/05/2025

CHIEF ENGINEER — DATE

11672.02_HD(COV) FINAL.DWG Plotted on 28-May-2025 4:09 PM

SOUTHBRIDGE
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/HSI-0033(042)X	2	91
PROJECT FILE NO.	608778		

LEGEND & ABBREVIATIONS

GENERAL SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
JB	JB	JERSEY BARRIER
CB	CB	CATCH BASIN/DOUBLE CATCH BASIN
		CATCH BASIN CURB INLET
FP	FP	FLAG POLE
GP	GP	GAS PUMP
MB	MB	MAIL BOX
		POST SQUARE
		POST CIRCULAR
WELL	WELL	WELL
EHH	EHH	ELECTRIC HANDHOLE
		FENCE GATE POST
GG	GG	GAS GATE
BHL #	BHL #	BORING HOLE
MW #	MW #	MONITORING WELL
TP #	TP #	TEST PIT
		HYDRANT
		LIGHT POLE
CO.BD.		COUNTY BOUND
		GPS POINT
C	C	CABLE MANHOLE
D	D	DRAINAGE MANHOLE
E	E	ELECTRIC MANHOLE
G	G	GAS MANHOLE
M	M	MISC MANHOLE
S	S	SEWER MANHOLE
T	T	TELEPHONE MANHOLE
W	W	WATER MANHOLE
MHB	MHB	MASSACHUSETTS HIGHWAY BOUND
MON		MONUMENT
SB		STONE BOUND
TB		TOWN OR CITY BOUND
		TRAVERSE OR TRIANGULATION STATION
TPL or GUY	TPL or GUY	TROLLEY POLE OR GUY POLE
HTP		TRANSMISSION POLE
UFB	UFB	UTILITY POLE W/ FIREBOX
UPDL	UPDL	UTILITY POLE WITH DOUBLE LIGHT
ULT	ULT	UTILITY POLE W / 1 LIGHT
UPL	UPL	UTILITY POLE
		BUSH
SIZE & TYPE		TREE
		STUMP
		SWAMP / MARSH
WG	WG	WATER GATE
PM	PM	PARKING METER
		OVERHEAD CABLE/WIRE
		CURBING
99		CONTOURS (ON-THE-GROUND SURVEY DATA)
100 99		CONTOURS (PHOTOGRAMMETRIC DATA)
		UNDERGROUND DRAIN PIPE (DOUBLE LINE 24 INCH AND OVER)
		UNDERGROUND ELECTRIC DUCT (DOUBLE LINE 24 INCH AND OVER)
		UNDERGROUND GAS MAIN (DOUBLE LINE 24 INCH AND OVER)
		UNDERGROUND SEWER MAIN (DOUBLE LINE 24 INCH AND OVER)
		UNDERGROUND TELEPHONE DUCT (DOUBLE LINE 24 INCH AND OVER)
		UNDERGROUND WATER MAIN (DOUBLE LINE 24 INCH AND OVER)
		BALANCED STONE WALL
		GUARD RAIL - STEEL POSTS
		GUARD RAIL - WOOD POSTS
x	x	CHAIN LINK OR METAL FENCE
		WOOD FENCE
		EROSION CONTROL BARRIER
		TREE LINE
		SAWCUT LINE
		TOP OR BOTTOM OF SLOPE
		EDGE OF PAVEMENT
		LIMIT OF MICROMILLING AND OVERLAY
		BANK OF RIVER OR STREAM
		BORDER OF WETLAND
		100 FT WETLAND BUFFER
		200 FT RIVERFRONT BUFFER
		STATE HIGHWAY LAYOUT
		TOWN OR CITY LAYOUT
		COUNTY LAYOUT
		RAILROAD SIDELINE
		TOWN OR CITY BOUNDARY LINE
		PROPERTY LINE OR APPROXIMATE PROPERTY LINE
		EASEMENT

TRAFFIC SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
Ø1	Ø1	CONTROLLER PHASE
		WIRE LOOP DETECTOR (6' x 6' TYP UNLESS OTHERWISE SPECIFIED)
		QUADRUPOLE WIRE LOOP DETECTOR
		BICYCLE WIRE LOOP DETECTOR, TYPE B-2
		DIGITAL VIDEO DETECTION SYSTEM
		PEDESTRIAN PUSH BUTTON, SIGN AND SADDLE
		EMERGENCY PREEMPTION CONFIRMATION STROBE LIGHT
		VEHICULAR SIGNAL HEAD, WITH/WITHOUT BACKPLATE
		VEHICULAR SIGNAL HEAD, OPTICALLY PROGRAMMED, WITH/WITHOUT BACKPLATE
		FLASHING BEACON, WITH/WITHOUT BACKPLATE
		PEDESTRIAN SIGNAL HEAD, (TYPE AS NOTED OR AS SPECIFIED)
TS		SIGNAL POST AND BASE
		MAST ARM, SHAFT AND BASE
		SIGN AND POST
		SIGN AND POST (2 POSTS)
		OVERHEAD SIGN
		OPTICAL PRE-EMPTION DETECTOR
		CONTROL CABINET, GROUND MOUNTED
		PULL BOX 12"x12" (OR AS NOTED)
		ELECTRIC HANDHOLE - SD2.022 (OR AS NOTED)
		TRAFFIC SIGNAL CONDUIT

PAVEMENT MARKINGS SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
		PAVEMENT ARROW - WHITE
ONLY	ONLY	LEGEND "ONLY" - WHITE
		YIELD MARKINGS "SHARKS' TEETH" -WHITE
		RAISED CROSSING - WHITE
		WRONG WAY ARROW - WHITE
		BIKE STOP LINE MARKING - WHITE
		BIKE LANE MARKINGS -WHITE
		SHARE-THE-ROAD (SHARROW) MARKING - WHITE
	SL	STOP LINE-WHITE, 12" WIDTH
	CW	CROSSWALK-WHITE, WIDTH AS NOTED ON PLANS
	SWL	SOLID WHITE LINE, 6" WIDTH ON ROADWAY, 4" WIDTH IN PARKING LOTS
	SYL	SOLID YELLOW LINE, 6" WIDTH
	BWL	BROKEN WHITE LINE, 6" WIDTH
	BYL	BROKEN YELLOW LINE, 6" WIDTH
	DWL	DOTTED WHITE LINE, 6" WIDTH, 3' LINES W/9' GAPS
	WDWL	WIDE DOTTED WHITE LINE - 12"
	DYL	DOTTED YELLOW LINE, 6" WIDTH, 3' LINES W/9' GAPS
	DWLEx	DOTTED WHITE LINE EXTENSION, 6" WIDTH, 2' LINES W/6' GAPS
	DYLEx	DOTTED YELLOW LINE EXTENSION, 6" WIDTH, 2' LINES W/6' GAPS
	DBWL	DOUBLE WHITE LINE, 6" WIDTH
	DBYL	DOUBLE YELLOW LINE, 6" WIDTH

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GENERAL ABBREVIATIONS

ABAN	ABANDON
ADJ	ADJUST
APPROX	APPROXIMATE
A.C.	ASPHALT CONCRETE
ACCM PIPE	ASPHALT COATED CORRUGATED METAL PIPE
BIT.	BITUMINOUS
BC	BOTTOM OF CURB
BD.	BOUND
BL	BASELINE
BLDG	BUILDING
BM	BENCHMARK
BO	BY OTHERS
BOS	BOTTOM OF SLOPE
BOW	BACK OF WALK
BR.	BRIDGE
CC	CEMENT CONCRETE
CCM	CEMENT CONCRETE MASONRY
CEM	CEMENT
CI	CURB INLET
CLF	CHAIN LINK FENCE
CL	CENTERLINE
CO.	COUNTY
CONC	CONCRETE
CONT	CONTINUOUS / CONTINUED
CONST	CONSTRUCTION
CR GR	CROWN GRADE
DIA	DIAMETER
DWY	DRIVEWAY
ELEV (or EL.)	ELEVATION
EMB	EMBANKMENT
EOP	EDGE OF PAVEMENT
EQ	EQUAL
EXIST (or EX)	EXISTING
EXC	EXCAVATION
FDN.	FOUNDATION
FDP	FULL DEPTH PAVEMENT
FLDSTN	FIELDSTONE
GAR	GARAGE
GD	GROUND
GRAN	GRANITE
GRAV	GRAVEL
GRD	GUARD
HMA	HOT MIX ASPHALT
HOR	HORIZONTAL
HWY	HIGHWAY
JCT	JUNCTION
LOAM	LOAM BORROW
LSA	LANDSCAPED AREA
LT	LEFT
MAHWL	MEAN AVERAGE HIGH WATER LINE
MAX	MAXIMUM
MB	MAILBOX
MHB	MASSACHUSETTS HIGHWAY BOUND
MIN	MINIMUM
MOD	MODIFIED
MSE	MECHANICALLY STABILIZED EARTH
NERR	NEW ENGLAND RAILROAD
NIC	NOT IN CONTRACT
NO.	NUMBER
NTS	NOT TO SCALE
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
PCR	PEDESTRIAN CURB RAMP
P.G.L.	PROFILE GRADE LINE
POS	PAINTED ONE SIDE
PREV	PREVIOUS/PREVIOUSLY
PROJ	PROJECT
PROP	PROPOSED
PSB	PLANTABLE SOIL BORROW
PVMT	PAVEMENT
R&D	REMOVE AND DISCARD
R&R	REMOVE AND RESET
R&S	REMOVE AND STACK
RD	ROAD
RDWY	ROADWAY
REB	REBUILD
REM	REMOVE
REMOD	REMODEL
RET	RETAIN
RET WALL	RETAINING WALL
ROW	RIGHT OF WAY
RR	RAILROAD
RT	RIGHT
SB	STONE BOUND
SHLD	SHOULDER
SHLO/S.H.L.O.	STATE HIGHWAY LAYOUT LINE

GENERAL ABBREVIATIONS (CONT)

ST	STREET
STA	STATION
STD	STANDARD
SW	SIDEWALK
TEMP	TEMPORARY
TC	TOP OF CURB
TOS	TOP OF SLOPE
TRANS	TRANSITION
TRM	TURF REINFORCING MAT
TYP	TYPICAL
VAR	VARIES
VERT	VERTICAL
WP	WORKING POINT
X-SECT	CROSS SECTION

UTILITY ABBREVIATIONS

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

ALIGNMENT & GRADING ABBREVIATIONS

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

PROFILE ABBREVIATIONS

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

TRAFFIC SIGNAL

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

SOUTHBRIDGE
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/HSI-0033(042)X	3	91
PROJECT FILE NO. 608778			

LEGEND & ABBREVIATIONS

GENERAL NOTES:

1. EXISTING CONDITIONS AND TOPOGRAPHICAL INFORMATION FROM AN ACTUAL FIELD SURVEY CONDUCTED BY BERTIN ENGINEERING ASSOCIATES, INC. IN DECEMBER, 2018.
2. THE HORIZONTAL CONTROL IS BASED ON THE MASSACHUSETTS MAINLAND STATE PLANE COORDINATE SYSTEM AND THE NATIONAL GEODETIC SURVEY (NAD83). ALL ELEVATION IS US FEET, REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
3. THE CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND GRADES IN THE FIELD BEFORE COMMENCING WORK AND PROMPTLY NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
4. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
5. DRAINAGE ELEVATIONS ARE PROVIDED FOR DESIGN PURPOSES ONLY. THE CONTRACTOR SHALL VERIFY BY TEST PIT, THE LOCATIONS OF EXISTING UTILITIES WHICH MAY CONFLICT WITH THE PROPOSED DRAINAGE DESIGN. ANY FIELD ADJUSTMENTS REQUIRED WILL BE MADE AS APPROVED OR DIRECTED BY THE ENGINEER. ONLY AFTER THE CONTRACTOR VERIFIES ELEVATIONS FOR THE CONSTRUCTABILITY OF THE DRAINAGE SYSTEM SHALL ANY STRUCTURES BE ORDERED. ANY FIELD ADJUSTMENTS TO LINE & GRADE UP TO A DEPTH OF 5' SHALL BE INCLUDED IN THE COST OF THE PIPE. PIPE EXCAVATION GREATER THAN 5' WILL BE PAID UNDER CLASS B TRENCH EXCAVATION.
6. THE CONTRACTOR SHALL VERIFY BY TEST PIT, THE LOCATIONS OF EXISTING UTILITIES WHICH MAY CONFLICT WITH PROPOSED CONDUIT AND SIGNAL EQUIPMENT. ANY FIELD ADJUSTMENTS REQUIRED WILL BE MADE AS APPROVED OR DIRECTED BY THE ENGINEER.
7. WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR, AND THE INFORMATION FURNISHED TO THE ENGINEER FOR RESOLUTION OF THE CONFLICT.
8. THE CONTRACTOR SHALL ALTER THE MASONRY OF THE TOP SECTION OF ALL EXISTING DRAINAGE AND SEWER STRUCTURES AS NECESSARY FOR CHANGES IN GRADE, AND RESET ALL WATER AND DRAINAGE FRAMES, GRATES AND BOXES TO THE PROPOSED FINISH SURFACE GRADE. REQUIRED NEW MASONRY SHALL BE CLAY BRICK.
9. THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS FOR THE ALTERATION AND ADJUSTMENT OF GAS, ELECTRIC, TELEPHONE AND ANY OTHER PRIVATE UTILITIES BY THE UTILITY COMPANIES.
10. EXISTING UTILITY POLES WILL BE RELOCATED BY OTHERS IF REQUIRED.
11. TREES AND SHRUBS WITHIN THE LIMITS OF GRADING SHALL BE REMOVED ONLY UPON APPROVAL OF THE ENGINEER.
12. AREAS OUTSIDE THE LIMITS OF PROPOSED WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION AT NO EXPENSE TO THE OWNER.
13. THE TERM "PROPOSED" (PROP) MEANS WORK TO BE CONSTRUCTED USING NEW MATERIALS OR, WHERE APPLICABLE, RE-USING EXISTING MATERIALS IDENTIFIED AS "REMOVE AND RESET" (R&R).
14. JOINTS BETWEEN NEW ASPHALT CONCRETE ROADWAY PAVEMENT AND SAWCUT EXISTING PAVEMENT SHALL BE SEALED WITH HMA JOINT SEALER AND BACKSANDED.
15. AFTER MILLING OPERATIONS AND PRIOR TO PAVING THE SUPERPAVE INTERMEDIATE OR SURFACES COURSES THE ENGINEER SHALL EVALUATE THE MILLED SURFACE AND SHALL APPLY THE APPROPRIATE REPAIR METHOD IF REQUIRED.
16. EXISTING SIGNS WITHIN THE PROJECT LIMITS SHALL BE ADDRESSED AS NOTED ON THE PLANS.
17. IF SUITABLE, EXISTING GRANITE CURB & EDGING SHALL BE RE-USED IN THE PROPOSED WORK, EXCEPT CURVED STONES OF A DIFFERENT RADIUS THAN PROPOSED CURB.
18. EXISTING CURB SUITABLE TO BE REUSED WILL BE STORED AND REUSED PRIOR TO NEW CURB. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE WHERE TO STORE THE CURB AND WHERE TO RESET IT.
19. EXISTING STATE, COUNTY, CITY, AND TOWN LOCATION LINES AND PRIVATE PROPERTY LINES HAVE BEEN ESTABLISHED FROM AVAILABLE INFORMATION AND THEIR EXACT LOCATIONS ARE NOT GUARANTEED.
20. DISPOSAL OF ALL SURPLUS MATERIAL SHALL BE AS APPROVED BY THE ENGINEER AND OWNER.
21. LATERAL DRAIN PIPES SHALL BE INSTALLED WITH A PITCH OF 0.01 FOOT PER FOOT (MINIMUM) UNLESS NOTED OTHERWISE ON THE PLANS.

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SOUTHBRIDGE
INTERSECTION IMPROVEMENTS

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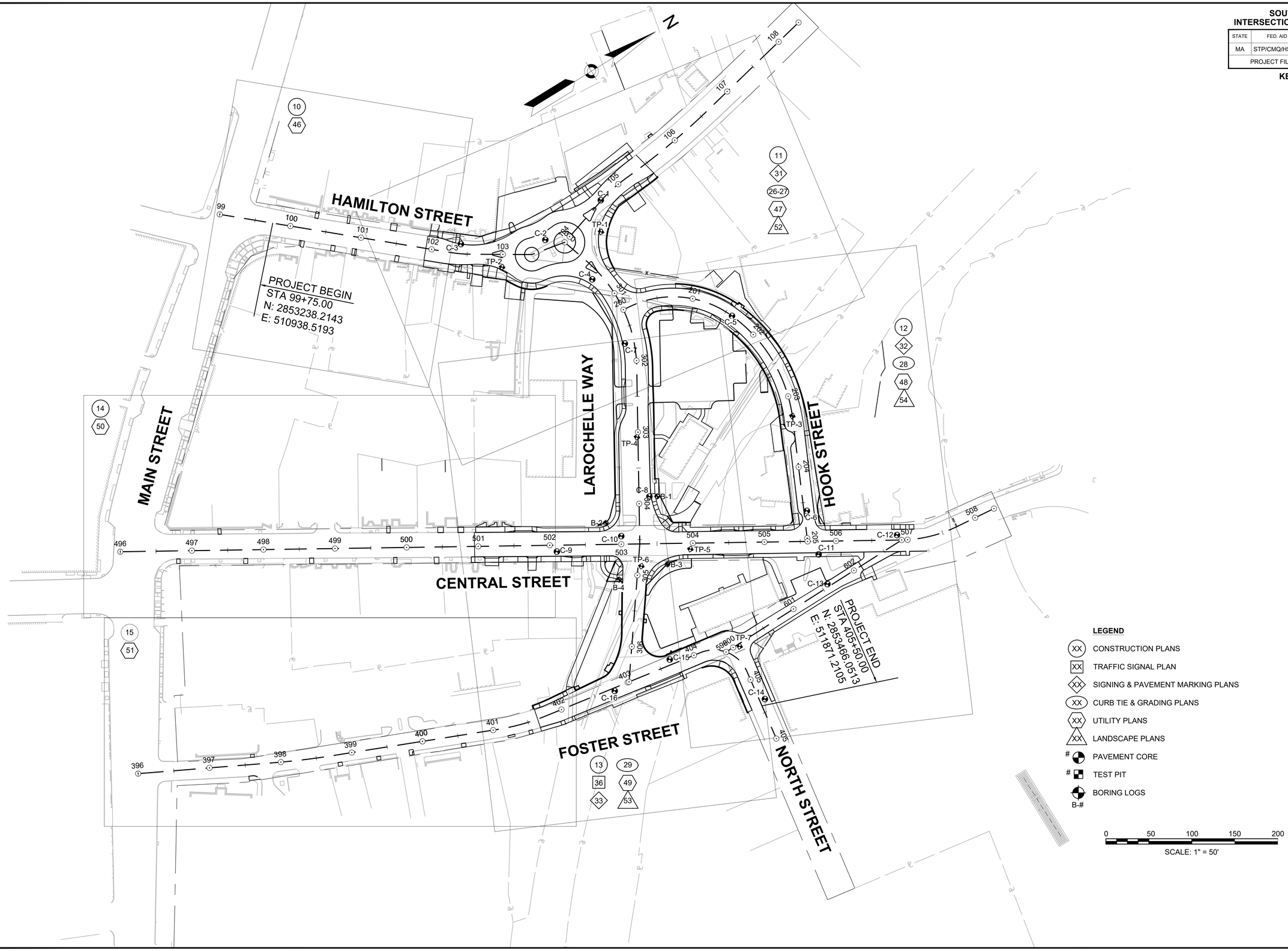
PROJECT FILE NO.	608778		

KEY PLAN

11672.02_HDI(KEY).DWG Plotted on 28-May-2025 3:52 PM



LEGEND

- (XX) CONSTRUCTION PLANS
- [XX] TRAFFIC SIGNAL PLAN
- ◇XX◇ SIGNING & PAVEMENT MARKING PLANS
- (XX) CURB TIE & GRADING PLANS
- ⬡XX⬡ UTILITY PLANS
- △XX△ LANDSCAPE PLANS
- # PAVEMENT CORE
- # TEST PIT
- BORING LOGS B-#

0 50 100 150 200

SCALE: 1" = 50'

11672.02_HD\BORING LOGS\ DWG Plotted on 28-May-2025 3:52 PM

Martin
Geo-Environmental, LLC
Drilling Contractors

P.O. Box 646
Belchertown, MA 01007 Tel: (413) 323-8700

Boring #: B-1 Start: 9-20-2022 Finish: 9-20-2022
Sheet: 1 of 1
Client: VHB Inspector: G. Russell
Project: Test Borings #: 11672.02
Location: Central St. at LaRochelle Way, Southbridge MA
Well Locus: ____
Drill/Crew: J.M.

Auger 4.25" | Casing Size | Sampling As Directed | Core Barrel | Utility Clearance #: 20223612333 Town Permit #:

Sample No.	Depth Range	Blows per 6 " 0-6	6-12	12-18	18-24	REC.	Strata Change	Sample Descriptions
								2.5" ASPHALT
S-1	0-2'	10	50/4"			8"		Brown fine-medium SAND and GRAVEL with pulverized rock. DRY
S-2	5-7'	18	48	50/1"		16"		Brown fine-medium SAND and GRAVEL, some silt. DRY
							BR	AUGER REFUSAL 7'
					min/ft			
C-1	7-12'					60"		RQD 63
					4			
					3			
					4			
					3			
					3			
								EOB 12' No Apparent Water

Field Obs. Only
Portions Used
Trace: 0-10%
Little: 10-20%
Some: 20-35%
And: 35-50%

Location: N: 2853494.7364 E: 511544.5907 ELEV: 474.61
Weather:

Rig: Mobile B-53
Hammer: 140 lb. Auto

Martin
Geo-Environmental, LLC
Drilling Contractors

P.O. Box 646
Belchertown, MA 01007 Tel: (413) 323-8700

Boring #: B-2 Start: 9-20-2022 Finish: 9-20-2022
Sheet: 1 of 1
Client: VHB Inspector: G. Russell
Project: Test Borings #: 11672.02
Location: Central St. at LaRochelle Way, Southbridge MA
Well Locus: ____
Drill/Crew: J.M.

Auger 4.25" | Casing Size | Sampling As Directed | Core Barrel | Utility Clearance #: 20223612333 Town Permit #:

Sample No.	Depth Range	Blows per 6 " 0-6	6-12	12-18	18-24	REC.	Strata Change	Sample Descriptions
								4" ASPHALT, 5" CONCRETE
S-1	1-3'	12	11	6	17	14"		Brown fine-medium SAND, little gravel, little silt. DRY
S-2	5-7'	12	19	20	50/2"	22"		Brown/gray fine-coarse SAND and GRAVEL, weathered rock in spoon tip. DRY
S-3	10-12'	50/2"				2"	BR	Pulverized ROCK. DRY
								AUGER REFUSAL 11.5'
					min/ft			
C-1	11.5				3	60"		RQD 45
	16.5'				3			
					3			
					4			
					3			
								EOB 16.5' No Apparent Water

Field Obs. Only
Portions Used
Trace: 0-10%
Little: 10-20%
Some: 20-35%
And: 35-50%

Location: N: 2853403.8199 E: 511548.7777 ELEV: 475.86
Weather:

Rig: Mobile B-53
Hammer: 140 lb. Auto

Martin
Geo-Environmental, LLC
Drilling Contractors

P.O. Box 646
Belchertown, MA 01007 Tel: (413) 323-8700

Boring #: B-3 Start: 9-20-2022 Finish: 9-20-2022
Sheet: 1 of 1
Client: VHB Inspector: G. Russell
Project: Test Borings #: 11672.02
Location: Central St. at LaRochelle Way, Southbridge MA
Well Locus: ____
Drill/Crew: J.M.

Auger 4.25" | Casing Size | Sampling As Directed | Core Barrel | Utility Clearance #: 20223612333 Town Permit #:

Sample No.	Depth Range	Blows per 6 " 0-6	6-12	12-18	18-24	REC.	Strata Change	Sample Descriptions
S-1	0-2'	4	4	7	9	13"		Brown fine-coarse SAND and GRAVEL, little silt. DRY
S-2	5-7'	49	50/4"			13"		Brown fine-coarse SAND and GRAVEL, trace silt. DRY
								(Hard drilling 7-10')
S-3	10-12'	22	50/3"			7"		Brown fine-coarse SAND and GRAVEL, trace silt. DRY
								(Hard drilling 10-14')
							BR	
								AUGER REFUSAL 14
								EOB 14' Water 6'

Field Obs. Only
Portions Used
Trace: 0-10%
Little: 10-20%
Some: 20-35%
And: 35-50%

Location: N: 2853454.6980 E: 511629.9695 ELEV: 471.95
Weather:

Rig: Mobile B-53
Hammer: 140 lb. Auto

Martin
Geo-Environmental, LLC
Drilling Contractors

P.O. Box 646
Belchertown, MA 01007 Tel: (413) 323-8700

Boring #: B-4 Start: 9-20-2022 Finish: 9-20-2022
Sheet: 1 of 1
Client: VHB Inspector: G. Russell
Project: Test Borings #: 11672.02
Location: Central St. at LaRochelle Way, Southbridge MA
Well Locus: ____
Drill/Crew: J.M.

Auger 4.25" | Casing Size | Sampling As Directed | Core Barrel | Utility Clearance #: 20223612333 Town Permit #:

Sample No.	Depth Range	Blows per 6 " 0-6	6-12	12-18	18-24	REC.	Strata Change	Sample Descriptions
								1" ASPHALT
S-1	0-2'	9	9	9	10	10"		Brown fine-medium SAND, little gravel, trace silt. DRY
S-2	5-7'	6	50/2"			8"		Brown fine-coarse SAND, little gravel, little silt. WET
								(Hard drilling 9')
S-3	10-12'	50/4"				4"		Weathered ROCK. DRY
							BR	AUGER REFUSAL 12'
								EOB 12' WATER 5'

Field Obs. Only
Portions Used
Trace: 0-10%
Little: 10-20%
Some: 20-35%
And: 35-50%

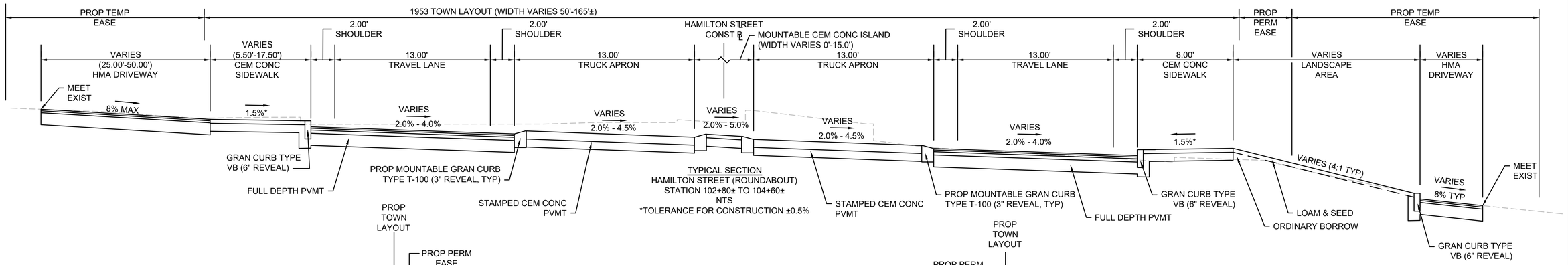
Location: N: 2853388.3529 E: 511616.4940 ELEV: 473.20
Weather:

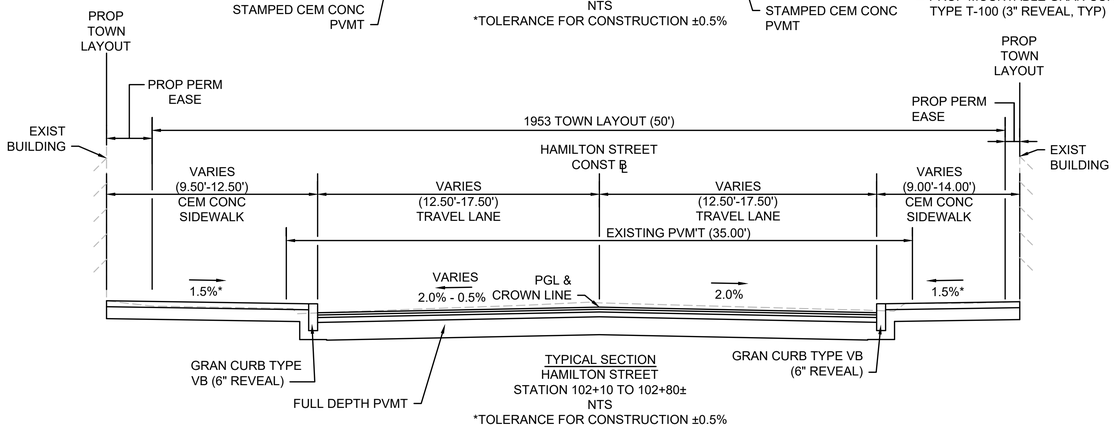
Rig: Mobile B-53
Hammer: 140 lb. Auto

SOUTHBRIDGE
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/HSI-0033(042)X	6	91
PROJECT FILE NO.	608778		

TYPICAL SECTIONS





PAVEMENT NOTES

PROPOSED FULL DEPTH PAVEMENT

SURFACE:	1 ¾ "	SUPERPAVE SURFACE COURSE - 9.5 (SSC-9.5)
INTERMEDIATE:	2 ½"	SUPERPAVE INTERMEDIATE COURSE - 12.5 (SIC-12.5)
BASE COURSE:	4 ½"	HOT MIX ASPHALT (HMA) BASE COURSE - 37.5 (SBC-37.5)
++SUBBASE:	4" 8"	DENSE GRADE CRUSHED STONE OVER GRAVEL BORROW (TYPE b)

PROPOSED FULL DEPTH LESS THAN 4 FEET

SURFACE:	1 ¾"	SUPERPAVE SURFACE COURSE - 9.5 (SSC-9.5) OVER
INTERMEDIATE:	2 ½"	SUPERPAVE INTERMEDIATE COURSE - 12.5 (SIC-12.5) OVER
++SUBBASE:	6" 8"	CEMENT CONCRETE FOR BASE COURSE OVER GRAVEL BORROW OR EXISTING GRAVEL TO REMAIN (COMPACTED)

PROPOSED RESURFACING MILL AND OVERLAY AT LIMITS OF WORK

SURFACE:	1 ¾"	SUPERPAVE SURFACE COURSE 12.5 (SSC-12.5-P) OVER
MILLING:	1 ¾"	PAVEMENT FINE MILLING

PROPOSED HOT MIX ASPHALT WALK

SURFACE:	1 ¼"	SUPERPAVE SURFACE COURSE - 9.5 (SSC-9.5)
INTERMEDIATE:	1 ¼"	SUPERPAVE INTERMEDIATE COURSE - 12.5 (SIC-12.5)
++SUBBASE:	8"	GRAVEL BORROW (TYPE b)

PROPOSED HOT MIX ASPHALT DRIVEWAY

SURFACE:	1 ½"	SUPERPAVE SURFACE COURSE - 9.5 (SSC-9.5)
INTERMEDIATE:	2"	SUPERPAVE INTERMEDIATE COURSE - 12.5 (SIC-12.5)
++SUBBASE:	8"	GRAVEL BORROW (TYPE b)

PROPOSED CEMENT CONCRETE WALK/ PEDESTRIAN CURB RAMP

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

PROPOSED CEMENT CONCRETE DRIVEWAY

SURFACE:	6"	CEMENT CONCRETE AIR ENTRAINED 4000 PSI, ¾", 610
++SUBBASE:	8"	GRAVEL BORROW (TYPE b)

PROPOSED STAMPED CEMENT CONCRETE PAVEMENT

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

PROPOSED CEMENT CONCRETE ISLAND

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

++ WHERE EXISTING GRAVEL IS FOUND TO BE SUITABLE, THE EXISTING GRAVEL MAY BE USED IN PROPOSED SUBBASE, AFTER APPROVAL BY THE ENGINEER.

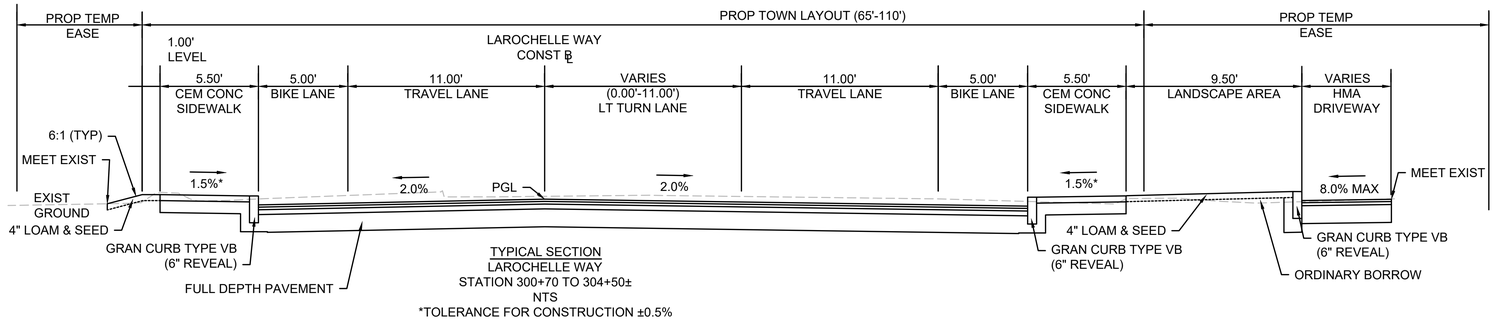
11672.02_HD(TYP).DWG Plotted on 28-May-2025 3:52 PM

SOUTHBRIDGE
INTERSECTION IMPROVEMENTS

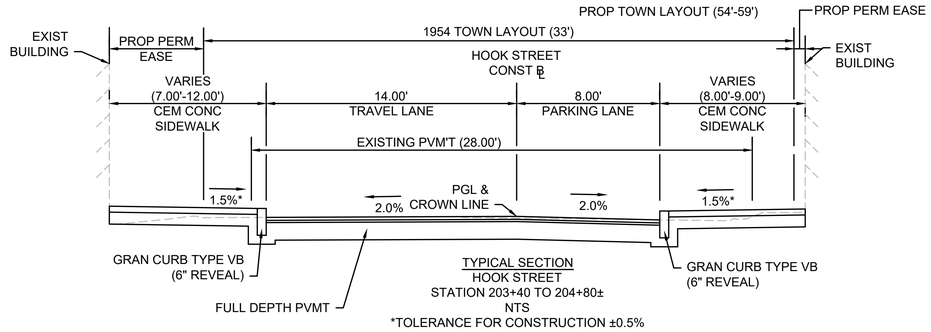
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/HSI-0033(042)X	7	91
PROJECT FILE NO.	608778		

TYPICAL SECTIONS

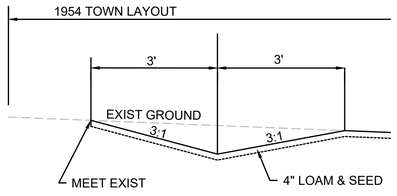
11672.02_HD(TYP).DWG Plotted on 28-May-2025 3:52 PM



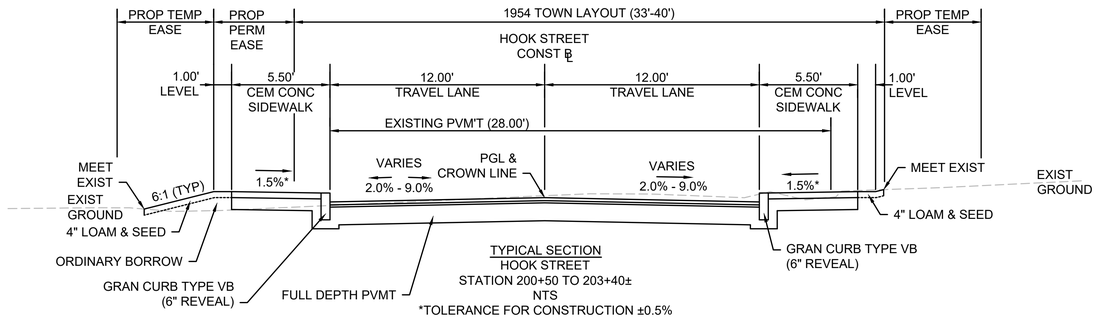
TYPICAL SECTION
LAROCHELLE WAY
STATION 300+70 TO 304+50±
NTS
*TOLERANCE FOR CONSTRUCTION ±0.5%



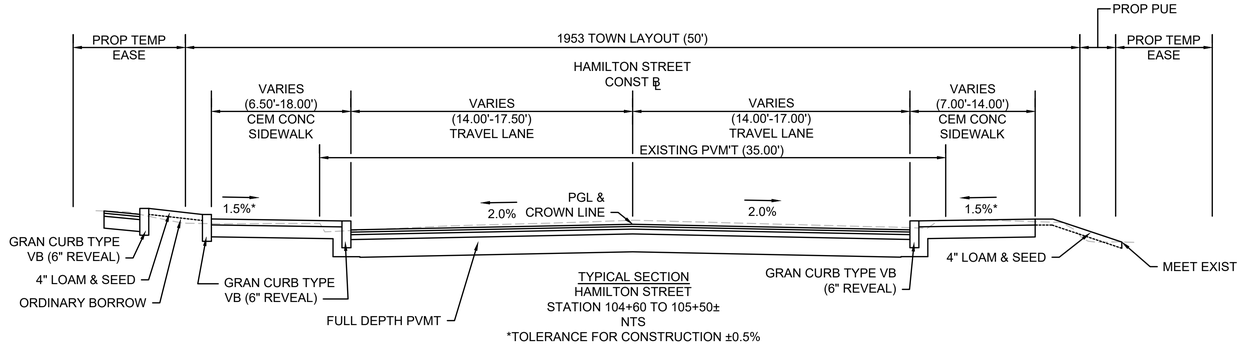
TYPICAL SECTION
HOOK STREET
STATION 203+40 TO 204+80±
NTS
*TOLERANCE FOR CONSTRUCTION ±0.5%



TYPICAL SECTION
GRASS DITCH AT HOOK STREET
STATION 200+20 TO 201+05±
NTS
*TOLERANCE FOR CONSTRUCTION ±0.5%



TYPICAL SECTION
HOOK STREET
STATION 200+50 TO 203+40±
NTS
*TOLERANCE FOR CONSTRUCTION ±0.5%



TYPICAL SECTION
HAMILTON STREET
STATION 104+60 TO 105+50±
NTS
*TOLERANCE FOR CONSTRUCTION ±0.5%

PAVEMENT NOTES

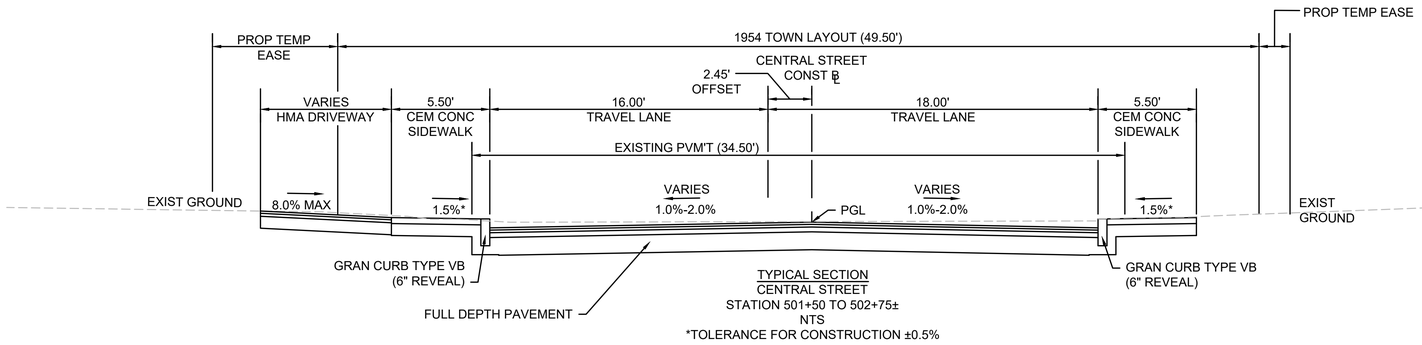
SEE SHEET 6

SOUTHBRIDGE
INTERSECTION IMPROVEMENTS

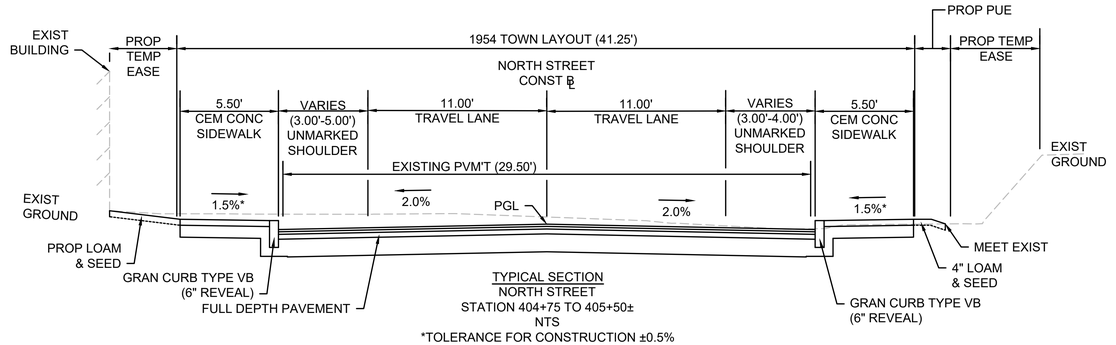
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/HSI-0033(042)X	8	91
PROJECT FILE NO. 608778			

TYPICAL SECTIONS

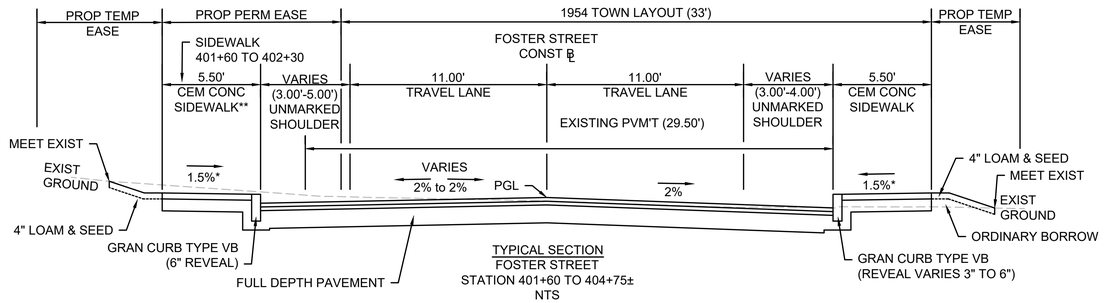
11672.02_HD(TYP).DWG Plotted on 28-May-2025 3:52 PM



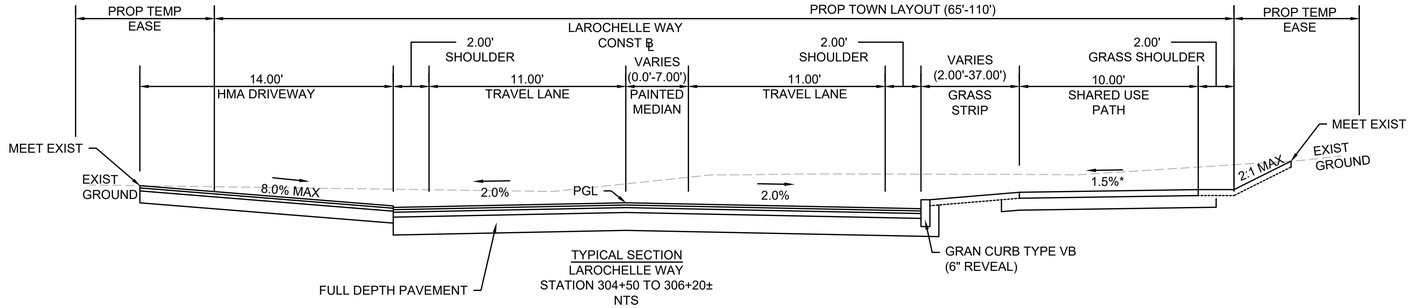
TYPICAL SECTION
CENTRAL STREET
STATION 501+50 TO 502+75±
NTS
*TOLERANCE FOR CONSTRUCTION ±0.5%



TYPICAL SECTION
NORTH STREET
STATION 404+75 TO 405+50±
NTS
*TOLERANCE FOR CONSTRUCTION ±0.5%



TYPICAL SECTION
FOSTER STREET
STATION 401+60 TO 404+75±
NTS
*TOLERANCE FOR CONSTRUCTION ±0.5%
**SIDEWALK ENDS AT 402+28±



TYPICAL SECTION
LAROCHELLE WAY
STATION 304+50 TO 306+20±
NTS
*TOLERANCE FOR CONSTRUCTION ±0.5%

PAVEMENT NOTES

SEE SHEET 6

SOUTHBRIDGE
INTERSECTION IMPROVEMENTS

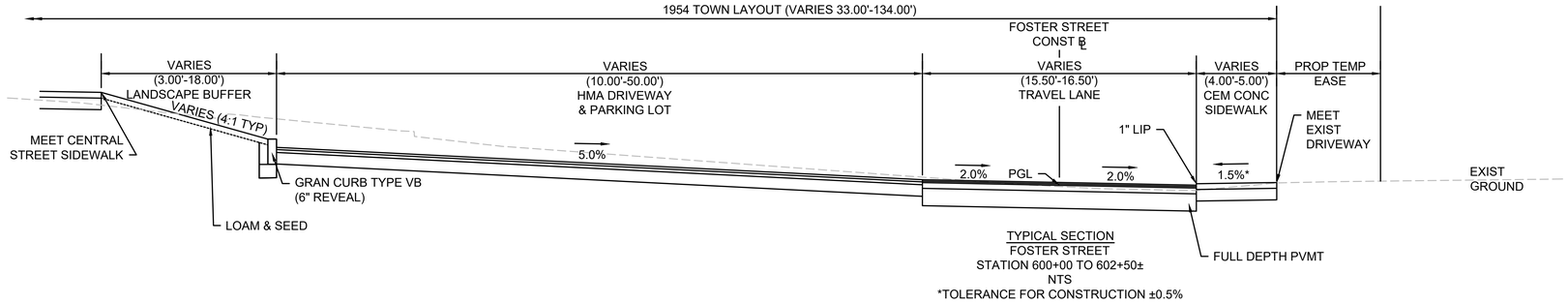
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/HSI-0033(042)X	9	91
PROJECT FILE NO.	608778		

TYPICAL SECTIONS

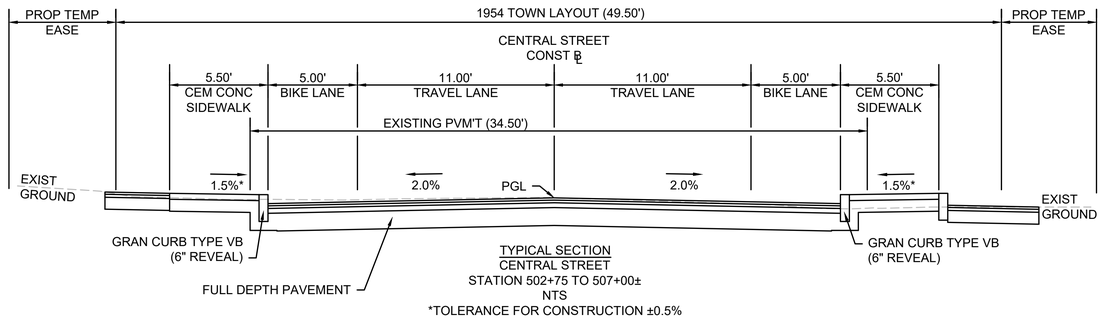
11672.02_HD(TYP).DWG Plotted on 28-May-2025 3:53 PM

PAVEMENT NOTES

SEE SHEET 6



TYPICAL SECTION
FOSTER STREET
STATION 600+00 TO 602+50±
NTS
*TOLERANCE FOR CONSTRUCTION ±0.5%



TYPICAL SECTION
CENTRAL STREET
STATION 502+75 TO 507+00±
NTS
*TOLERANCE FOR CONSTRUCTION ±0.5%

SOUTHBRIDGE
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/HSI-0033(042)X	10	91
PROJECT FILE NO.	608778		

CONSTRUCTION PLANS

11672.02_HD(CON).DWG Plotted on 28-May-2025 3:53 PM

HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

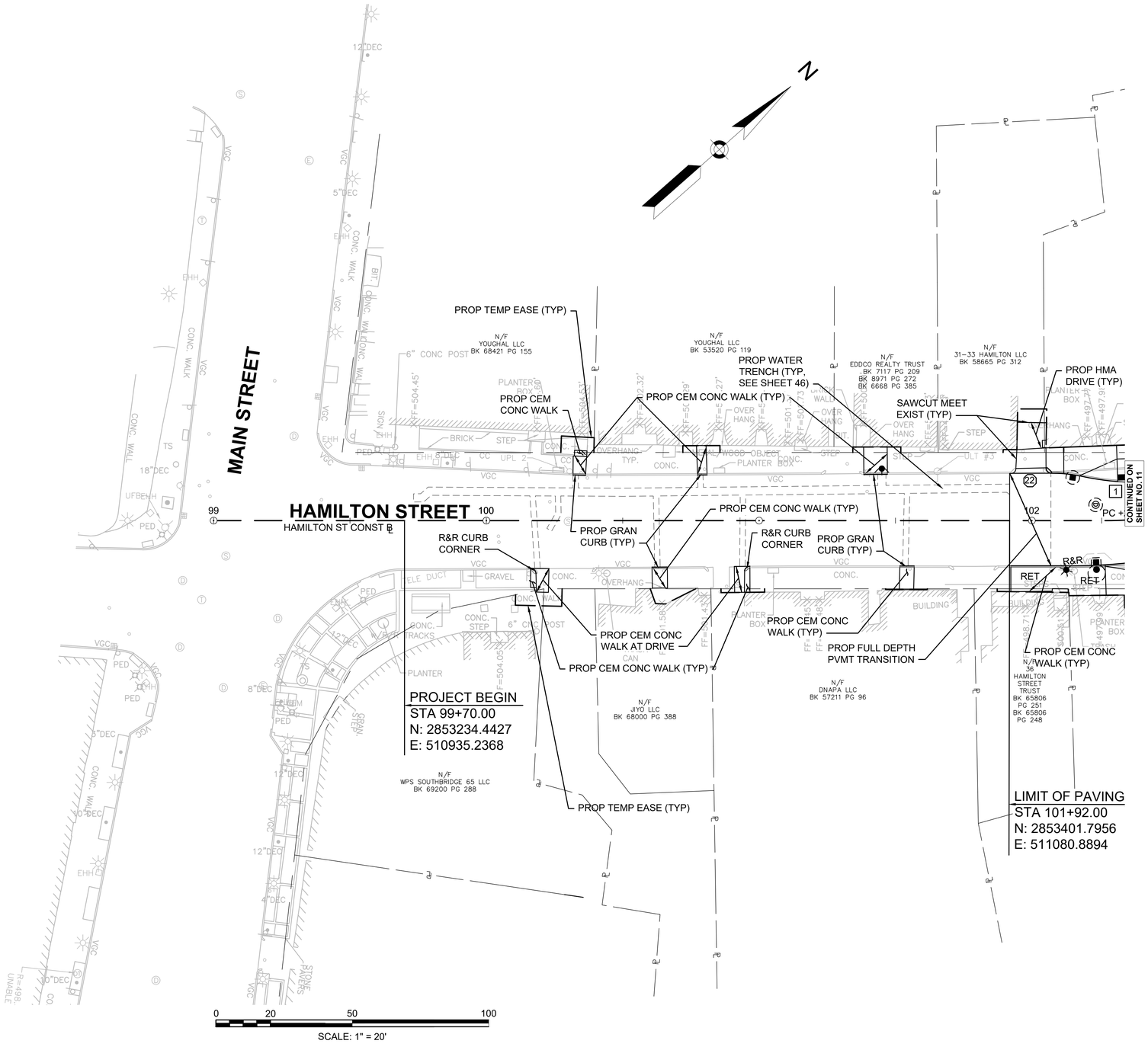
NONE

WATER SUPPLY ALTERATIONS

SEE SHEET 46

DRAINAGE DETAILS

SEE SHEET 46



FOR PROFILE PLANS
SEE SHEET 16

SOUTHBRIDGE
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/HSI-0033(042)X	11	91
PROJECT FILE NO.	608778		

CONSTRUCTION PLANS

HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

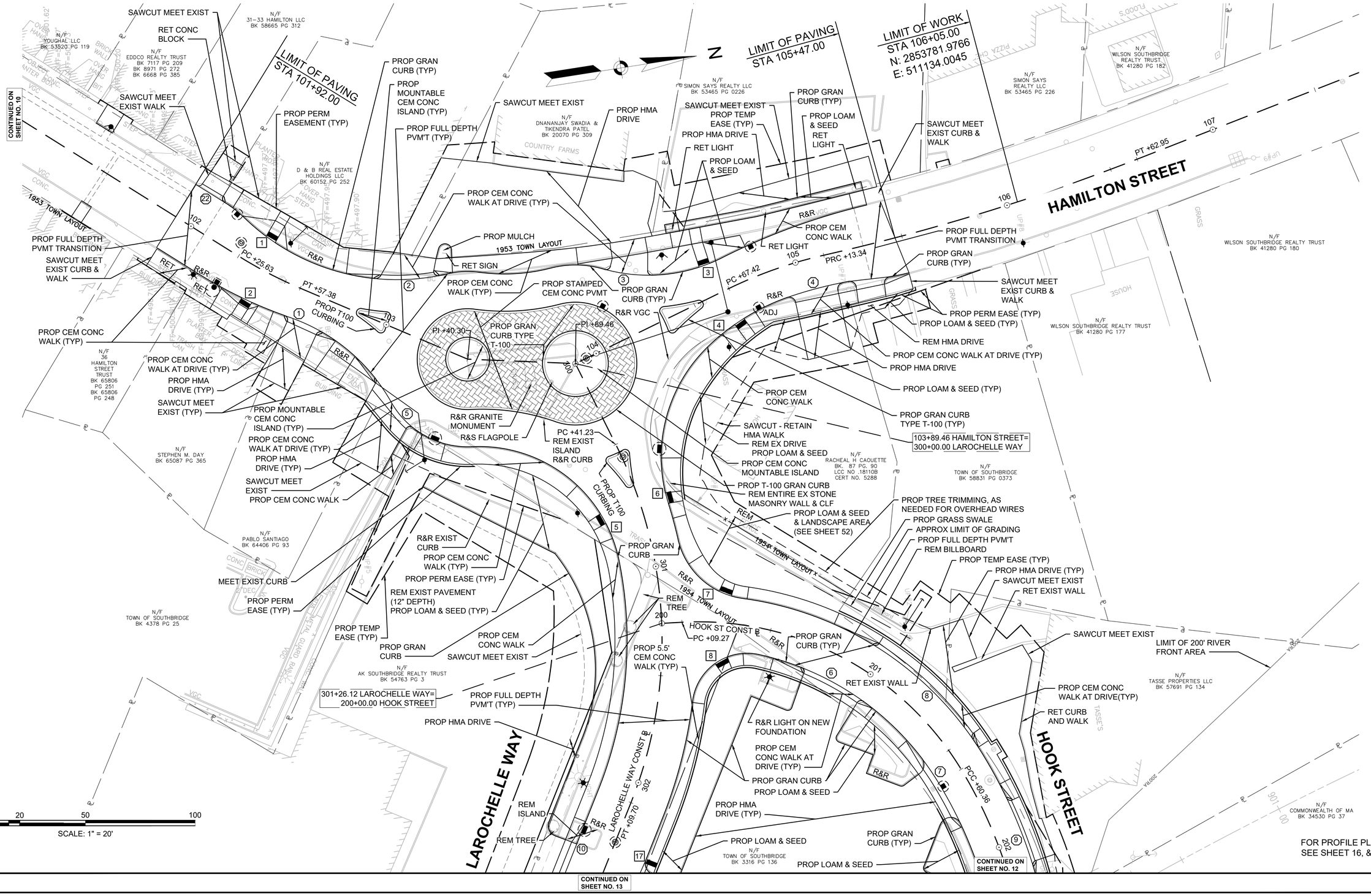
NONE

WATER SUPPLY ALTERATIONS

SEE SHEET 47

DRAINAGE DETAILS

SEE SHEET 47



11672.02_HD(CON).DWG Plotted on 28-May-2025 3:53 PM

SOUTHBRIDGE
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/HSI-0033(042)X	12	91
PROJECT FILE NO.	608778		

CONSTRUCTION PLANS

HIGHWAY GUARD DETAILS
NONE

TRAFFIC SIGNAL CONDUIT
SEE SHEET 36

WATER SUPPLY ALTERATIONS
SEE SHEET 48

DRAINAGE DETAILS
SEE SHEET 48

11672.02_HD(CON).DWG Plotted on 28-May-2025 3:53 PM

N

LIMIT OF WORK
STA 507+50.00
N: 2853807.7656
E: 511797.6554

LIMIT OF PAVING
STA 506+95.00

PROJECT END
STA 405+50.00
N: 2853466.0513
E: 511871.2105

HOOK STREET

FOSTER STREET

CENTRAL STREET

NORTH STREET

602+79.24 FOSTER STREET=
506+91.78 CENTRAL ST

205+04.55 HOOK STREET=
505+60.26 CENTRAL ST

PC +90.58

PT +33.07

PT +87.29

PC +60.36

HOOK ST CONST @

FOSTER ST CONST @

CENTRAL ST CONST @

NORTH ST CONST @

SAWCUT MEET EXIST CURB & WALK

PROP CURBING TO MEET EXIST WALL AT 3" REVEAL

PROP GRAN CURB (TYP)

RET EXIST FENCE & WALL

PROP FULL DEPTH PVMT TRANSITION

PROP T-100 CURBING 3" REVEAL

PROP FULL DEPTH PVMT

REMOVE EXIST WALK & PVMT
PROP LOAM & SEED

PROP TEMP EASE

PROP PERM EASE

PROP CEM CONC WALK

PROP STAMPED CEM CONC PVM'T RAISED INTERSECTION (SEE SHEET 58)

PROP TEMP EASE

PROP T-100 CURBING 3" REVEAL

REM EXIST ISLAND AND PAVEMENT (12" DEPTH)
R&R GRAN CURB

PROP LOAM & SEED
AND LANDSCAPE AREA (SEE SHEET 53)

SAWCUT MEET EXIST

REM EXIST ISLAND
R&R GRAN CURB

PROP CEM CONC WALK

PROP GRAN CURB

PROP PAVEMENT MILLING

PROP CEM CONC WALK

PROP HMA DRIVE

PROP FULL DEPTH PVM'T

RET STEPS

PROP CEM CONC WALK AT DRIVE

PROP TEXTURIZED RAISED SPEED TABLE

PROP FULL DEPTH PVM'T

PROP 5.5' CEM CONC WALK

SAWCUT MEET EXIST CURB & WALK

RET EXIST SW

PROP GRAN CURB

PROP CEM CONC WALK

PROP HMA DRIVE

PROP TEMP EASEMENT (TYP)

PROP HMA DRIVE

PROP TEMP EASE (TYP)

REM CURB

PROP PERM EASE (TYP)

APPROX LIMIT OF GRADING

PROP FULL DEPTH PVMT TRANSITION

SAWCUT MEET EXIST CURB & WALK

REM STONES

MEET EXIST

PROP PERM EASE

PROP PERM EASE

PROP CEM CONC WALK

PROP LOAM & SEED

PROP FULL DEPTH PVM'T

RET STONE & MORTAR RET WALL

PROP CEM CONC WALK AT DRIVE

PROP HMA DRIVE

PROP GRAN CURB (TYP)

PROP LOAM & SEED

PROP CEM CONC WALK AT DRIVE (TYP)

PROP CEM CONC WALK

PROP HMA DRIVE

PROP 5.5' CEM CONC WALK

PROP GRAN CURB (TYP)

PROP LOAM & SEED

SAWCUT MEET EXIST

PROP HMA DRIVE

PROP CEM CONC WALK AT DRIVE

PROP TEMP EASE (TYP)

PROP HMA DRIVE WITH TEXTURIZED PAVEMENT

MEET TRAIL BUILT BY OTHERS

PROP CEM CONC WALK

PROP BENCHES (TYP)

PROP HMA DRIVE

PROP CEM CONC WALK AT DRIVE(TYP)

PROP HMA DRIVE (TYP)

PROP GRAN CURB (TYP)

PROP LOAM & SEED

PROP CEM CONC WALK AT DRIVE

PROP HMA DRIVE (TYP)

PROP GRAN CURB (TYP)

PROP LOAM & SEED

PROP CEM CONC WALK AT DRIVE (TYP)

PROP FULL DEPTH PVM'T

PROP GRAN CURB (TYP)

R&R LIGHT

PROP LOAM & SEED & LANDSCAPE AREA (SEE SHEET 54)

PROP GRAN CURB (TYP)

PROP LOAM & SEED

PROP HMA DRIVE (TYP)

PROP CEM CONC WALK AT DRIVE

HIGHWAY GUARD DETAILS

N/A

TRAFFIC SIGNAL CONDUIT

SEE SHEET 36

WATER SUPPLY ALTERATIONS

SEE SHEET 49

DRAINAGE DETAILS

SEE SHEET 49

SOUTHBRIDGE
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/HSI-0033(042)X	13	91
PROJECT FILE NO.	608778		

CONSTRUCTION PLANS

N

CONTINUED ON SHEET NO. 12

CONTINUED ON SHEET NO. 12

CONTINUED ON SHEET NO. 11

PROP LOAM & SEED

PROP HMA DRIVE

RET

PROP CEM CONC WALK

REM TREE

PROP TEMP EASE

PROP LOAM & SEED & LANDSCAPE AREA (SEE SHEET 54)

PROP LOAM & SEED

PROP GRAN CURB (TYP)

REM TREE

PROP CEM CONC WALK AT DRIVE

REM TREE

R&R GRAN CURB

PROP FULL DEPTH PVM'T

R&R VGC

PROP PERM EASE

PROP 5.5' CEM CONC WALK

REM TREE

PROP LOAM & SEED & LANDSCAPE AREA (SEE SHEET 54)

PROP HMA DRIVE

301+26.12 LAROCHELLE WAY= 200+00.00 HOOK STREET

PROP TEMP EASE (TYP)

SAWCUT MEET EXIST

PROP CEM. CONC. WALK

PROP HMA DRIVE

CONC. WALL

METAL GUARD RAIL

VGC

N/F TOWN OF SOUTHBRIDGE BK 4378 PG 25

LIMIT OF PAVING STA 500+95.00

N/F AK SOUTHBRIDGE REALTY TRUST BK 54763 PG 3

N/F MARTIN REALTY CO OF AUBURN INC BK 3518 PG 51

PROP FULL DEPTH PVMT TRANSITION

SAWCUT MEET EXIST CURB & WALK

N/F A&K CENTRAL STREET LLC BK. 60600 PG. 25.

PROP HMA DRIVE

PROP PERM EASE

APPROX LIMIT OF GRADING

PROP CEM CONC WALK AT DRIVE

PROP 5.5' CEM CONC WALK

PROP FULL DEPTH PVM'T

N/F COMMONWEALTH OF MASSACHUSETTS BK 34530 PG 37

PROP HMA DRIVE

PROP HMA DRIVE WITH TEXTURIZED PAVEMENT

PROP CEM CONC WALK

PROP BENCHES (TYP)

N/F TOWN OF SOUTHBRIDGE BK 3316 PG 136

THE CONTRACTOR SHALL NOT CONSTRUCT THE SIDEWALK, OR ANY PERMANENT INFRASTRUCTURE, WITHIN 20' OF THE GAS VAULT UNTIL THE VAULT IS ADJUSTED BY GAS COMPANY

PROP LOAM & SEED

R&R GRAN CURB

REM TREE

RET

R&R

PROP CEM CONC WALK AT DRIVE

REM TREE

R&R GRAN CURB

PROP FULL DEPTH PVM'T

R&R VGC

PROP PERM EASE

PROP 5.5' CEM CONC WALK

REM TREES

PROP LOAM & SEED

PROP PERM EASE (TYP)

304+56.09 LAROCHELLE WAY= 503+25.87 CENTRAL ST

PROP FULL DEPTH PVM'T

PROP LOAM & SEED

SAWCUT MEET EXIST

PROP CEM. CONC. WALK

PROP HMA DRIVE

PROP CEM CONC WALK AT DRIVE

RET

RET

RET

REM TREE AND TREE PIT

REM

PROP HMA DRIVE

SAWCUT MEET EXIST

PROP CEM CONC WALK AT DRIVE

REM TREE & TREE PIT

SAWCUT MEET EXIST CURB & WALK

CENTRAL STREET

CENTRAL ST CONST Ⓒ

LAROCHELLE WAY

LAROCHELLE WAY CONST Ⓒ

PT +09.70

PI +56.09

REM RAILROAD POST

REM RAILROAD POST

REM BILLBOARD

REM RAILROAD TRACKS

PROP GRAN CURB

BUILDING TO BE REMOVED (B.O.)

REM CEM CONC WALL

PROP LOAM & SEED & LANDSCAPE AREA (SEE SHEET 54)

PROP HMA DRIVE

SAWCUT

PROP PERM EASE

PROP CEM CONC WALK AT DRIVE

PROP TEMP EASE

RET STONE/MORTAR WALL

RET STAIRS

PROP 5.5' CEM CONC WALK

RET STONE/MORTAR WALL

PROP HMA DRIVE

SAWCUT MEET EXIST

PROP CEM CONC WALK AT DRIVE

RET

RET

RET

N/F TRAN PROPERTIES LLC BK 58036 PG 322

REM TREE AND TREE PIT

PROP HMA DRIVE

SAWCUT MEET EXIST

PROP CEM CONC WALK AT DRIVE

REM TREE & TREE PIT

SAWCUT MEET EXIST CURB & WALK

N/F COMMONWEALTH OF MASSACHUSETTS BK 34530 PG 37

PROP LOAM & SEED & LANDSCAPE AREA (SEE SHEET 54)

PROP HMA DRIVE

SAWCUT

PROP PERM EASE

PROP CEM CONC WALK AT DRIVE

PROP TEMP EASE

RET STONE/MORTAR WALL

RET STAIRS

N/F RESILIENT INVESTMENTS LLC BK 64585 PG 237

PROP 10.0' HMA SHARED USE PATH

LAROCHELLE WAY SHARED USE PATH CONSTRUCTION

N/F SAVERS CO-OPERATIVE BANK BK 32774 PG 195

PROP 5.5' CEM CONC WALK

LIMIT OF PAVING STA 401+64.00

PROP FULL DEPTH PVMT TRANSITION

SAWCUT MEET EXIST

PROP CLEARING & GRUBBING

PROP RAISED INTERSECTION W/ TEXTURIZED PAVEMENT

PROP CEM CONC WALK SAWCUT MEET EXIST

SAWCUT MEET EXIST

PROP TEMP EASE (TYP)

PROP HMA DRIVE

RET STAIRS & LANDING PAD

RET STONE & MORTAR RET WALL

RET STAIRS

REM HAND RAIL STA 304+91± - 404+10±

PROP CLF

END R&R STONE & MORTAR RET WALL +88 SEE SHEET 25

PROP LOAM & SEED

BEGIN R&R STONE & MORTAR RET WALL +65 SEE SHEET 25

REM STONE & MORTAR RET WALL STA 403+14± - 403+65± LT

APPROX TOP OF SLOPE

PROP GRAN CURB

PROP HMA DRIVE

PROP FULL DEPTH PVM'T

REM RAILROAD POST

PROP CLEARING & GRUBBING

PROP RAISED INTERSECTION W/ TEXTURIZED PAVEMENT

N/F VELOZ & ASSOCIATES LLC BK 69137 PG 378

N/F DANIEL T. MORRILL FUNERAL HOME LLC BK. 45543 PG 103

PROP FULL DEPTH PVM'T

PROP TEMP EASE (TYP)

REM CURB

PROP TEMP EASE (TYP)

PROP PERM EASE (TYP)

APPROX LIMIT OF GRADING

PROP CEM CONC WALK

PROP LOAM & SEED

PROP CEM CONC WALK

N/F TOWN OF SOUTHBRIDGE BK 12709 PG 158

PROJECT END
STA 405+50.00
N: 2853466.0513
E: 511871.2105

PROP SITE UPDATE (BO)

PROP TEMP EASE (TYP)

SAWCUT MEET EXIST

PROP CEM CONC WALK AT DRIVE

PROP HMA DRIVE

306+49.37 LAROCHELLE WAY= 403+02.01 FOSTER-NORTH STREET

REM FENCE

N/F CENTER OF HOPE FOUNDATION INC. BK 57309 PG 188

PROP SITE UPDATE (BO)

PROP LOAM & SEED

PROP SITE UPDATE (BO)

PROP TEMP EASEMENT

REM EXIST RAILROAD TRACKS WITHIN LIMIT OF GRADING

N/F COMMONWEALTH OF MASSACHUSETTS BK 34530 PG 37

APPROX LIMIT OF GRADING

REM EXIST RAILROAD TRACKS WITHIN LIMIT OF GRADING

PROP SITE UPDATE (BO)

PROP FULL DEPTH PVM'T

REM RAILROAD POST

PROP 5.5' CEM CONC WALK

N/F CENTER OF HOPE FOUNDATION INC BK 57309 PG 188

SAWCUT MEET EXIST CURB & WALK

PROP CEM CONC WALK

RET

PROP FULL DEPTH PVMT TRANSITION

SAWCUT MEET EXIST CURB & WALK

N/F ITAL AMER ASSOC SOUTHBRIDGE BK 2765 PG 136

FOSTER STREET

PROP CEM CONC WALK

PROP FULL DEPTH PVM'T

405

PT +87.29 NORTH ST CONST Ⓒ

R&R

SAWCUT MEET EXIST CURB & WALK

PROP LOAM & SEED & LANDSCAPE AREA (SEE SHEET 54)

PROP HMA DRIVE

301+26.12 LAROCHELLE WAY= 200+00.00 HOOK STREET

PROP TEMP EASE (TYP)

PROP LOAM & SEED

PROP HMA DRIVE

304+56.09 LAROCHELLE WAY= 503+25.87 CENTRAL ST

PROP FULL DEPTH PVM'T

PROP PERM EASE (TYP)

PROP 5.5' CEM CONC WALK

REM TREES

PROP LOAM & SEED

REM TREE

PROP LOAM & SEED & LANDSCAPE AREA (SEE SHEET 54)

PROP HMA DRIVE

PROP GRAN CURB (TYP)

REM TREE

PROP CEM CONC WALK AT DRIVE

PROP 5.5' CEM CONC WALK

PROP LOAM & SEED

PROP PERM EASE (TYP)

PROP FULL DEPTH PVM'T

PROP LOAM & SEED

PROP HMA DRIVE

PROP PERM EASE

PROP CEM CONC WALK AT DRIVE

PROP TEMP EASE

RET STONE/MORTAR WALL

RET STAIRS

PROP 5.5' CEM CONC WALK

RET STONE/MORTAR WALL

PROP HMA DRIVE

SAWCUT MEET EXIST

PROP CEM CONC WALK AT DRIVE

RET

RET

RET

N/F TRAN PROPERTIES LLC BK 58036 PG 322

REM TREE AND TREE PIT

PROP HMA DRIVE

SAWCUT MEET EXIST

PROP CEM CONC WALK AT DRIVE

REM TREE & TREE PIT

SAWCUT MEET EXIST CURB & WALK

PROP FULL DEPTH PVMT TRANSITION

SAWCUT MEET EXIST CURB & WALK

N/F A&K CENTRAL STREET LLC BK. 60600 PG. 25.

CENTRAL STREET

CENTRAL ST CONST Ⓒ

LAROCHELLE WAY

LAROCHELLE WAY CONST Ⓒ

PT +09.70

PI +56.09

REM RAILROAD POST

REM BILLBOARD

REM RAILROAD TRACKS

PROP GRAN CURB

BUILDING TO BE REMOVED (B.O.)

REM CEM CONC WALL

PROP LOAM & SEED & LANDSCAPE AREA (SEE SHEET 54)

PROP HMA DRIVE

SAWCUT

PROP PERM EASE

PROP CEM CONC WALK AT DRIVE

PROP TEMP EASE

RET STONE/MORTAR WALL

RET STAIRS

PROP 5.5' CEM CONC WALK

RET STONE/MORTAR WALL

PROP HMA DRIVE

SAWCUT MEET EXIST

PROP CEM CONC WALK AT DRIVE

RET

RET

RET

N/F TRAN PROPERTIES LLC BK 58036 PG 322

REM TREE AND TREE PIT

PROP HMA DRIVE

SAWCUT MEET EXIST

PROP CEM CONC WALK AT DRIVE

REM TREE & TREE PIT

SAWCUT MEET EXIST CURB & WALK

N/F COMMONWEALTH OF MASSACHUSETTS BK 34530 PG 37

PROP LOAM & SEED & LANDSCAPE AREA (SEE SHEET 54)

PROP HMA DRIVE

SAWCUT

PROP PERM EASE

PROP CEM CONC WALK AT DRIVE

PROP TEMP EASE

RET STONE/MORTAR WALL

RET STAIRS

N/F RESILIENT INVESTMENTS LLC BK 64585 PG 237

PROP 10.0' HMA SHARED USE PATH

LAROCHELLE WAY SHARED USE PATH CONSTRUCTION

N/F SAVERS CO-OPERATIVE BANK BK 32774 PG 195

PROP 5.5' CEM CONC WALK

LIMIT OF PAVING STA 401+64.00

PROP FULL DEPTH PVMT TRANSITION

SAWCUT MEET EXIST

PROP CLEARING & GRUBBING

PROP RAISED INTERSECTION W/ TEXTURIZED PAVEMENT

PROP CEM CONC WALK SAWCUT MEET EXIST

SAWCUT MEET EXIST

PROP TEMP EASE (TYP)

PROP HMA DRIVE

RET STAIRS & LANDING PAD

RET STONE & MORTAR RET WALL

RET STAIRS

REM HAND RAIL STA 304+91± - 404+10±

PROP CLF

END R&R STONE & MORTAR RET WALL +88 SEE SHEET 25

PROP LOAM & SEED

BEGIN R&R STONE & MORTAR RET WALL +65 SEE SHEET 25

REM STONE & MORTAR RET WALL STA 403+14± - 403+65± LT

APPROX TOP OF SLOPE

PROP GRAN CURB

PROP HMA DRIVE

PROP FULL DEPTH PVM'T

REM RAILROAD POST

PROP CLEARING & GRUBBING

PROP RAISED INTERSECTION W/ TEXTURIZED PAVEMENT

N/F VELOZ & ASSOCIATES LLC BK 69137 PG 378

N/F DANIEL T. MORRILL FUNERAL HOME LLC BK. 45543 PG 103

PROP FULL DEPTH PVM'T

PROP TEMP EASE (TYP)

REM CURB

PROP TEMP EASE (TYP)

PROP PERM EASE (TYP)

APPROX LIMIT OF GRADING

PROP CEM CONC WALK

PROP LOAM & SEED

PROP CEM CONC WALK

N/F TOWN OF SOUTHBRIDGE BK 12709 PG 158

PROJECT END
STA 405+50.00
N: 2853466.0513
E: 511871.2105

PROP SITE UPDATE (BO)

PROP TEMP EASE (TYP)

SAWCUT MEET EXIST

PROP CEM CONC WALK AT DRIVE

PROP HMA DRIVE

306+49.37 LAROCHELLE WAY= 403+02.01 FOSTER-NORTH STREET

REM FENCE

N/F CENTER OF HOPE FOUNDATION INC. BK 57309 PG 188

PROP SITE UPDATE (BO)

PROP LOAM & SEED

PROP SITE UPDATE (BO)

PROP TEMP EASEMENT

REM EXIST RAILROAD TRACKS WITHIN LIMIT OF GRADING

N/F COMMONWEALTH OF MASSACHUSETTS BK 34530 PG 37

APPROX LIMIT OF GRADING

REM EXIST RAILROAD TRACKS WITHIN LIMIT OF GRADING

PROP SITE UPDATE (BO)

PROP FULL DEPTH PVM'T

REM RAILROAD POST

PROP 5.5' CEM CONC WALK

N/F CENTER OF HOPE FOUNDATION INC BK 57309 PG 188

SAWCUT MEET EXIST CURB & WALK

PROP CEM CONC WALK

RET

PROP FULL DEPTH PVMT TRANSITION

SAWCUT MEET EXIST CURB & WALK

N/F ITAL AMER ASSOC SOUTHBRIDGE BK 2765 PG 136

FOSTER STREET

PROP CEM CONC WALK

PROP FULL DEPTH PVM'T

405

PT +87.29 NORTH ST CONST Ⓒ

R&R

SAWCUT MEET EXIST CURB & WALK

0 20 50 100

SCALE: 1" = 20'

FOR PROFILE PLANS
SEE SHEET 18 - 23

CONTINUED ON SHEET NO. 14

CONTINUED ON SHEET NO. 15

11672.02_HD(CON).DWG Plotted on 28-May-2025 3:54 PM

HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

SEE SHEET 50

DRAINAGE DETAILS

SEE SHEET 50

SOUTHBRIDGE
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/HSI-0033(042)X	14	91
PROJECT FILE NO.	608778		

CONSTRUCTION PLANS

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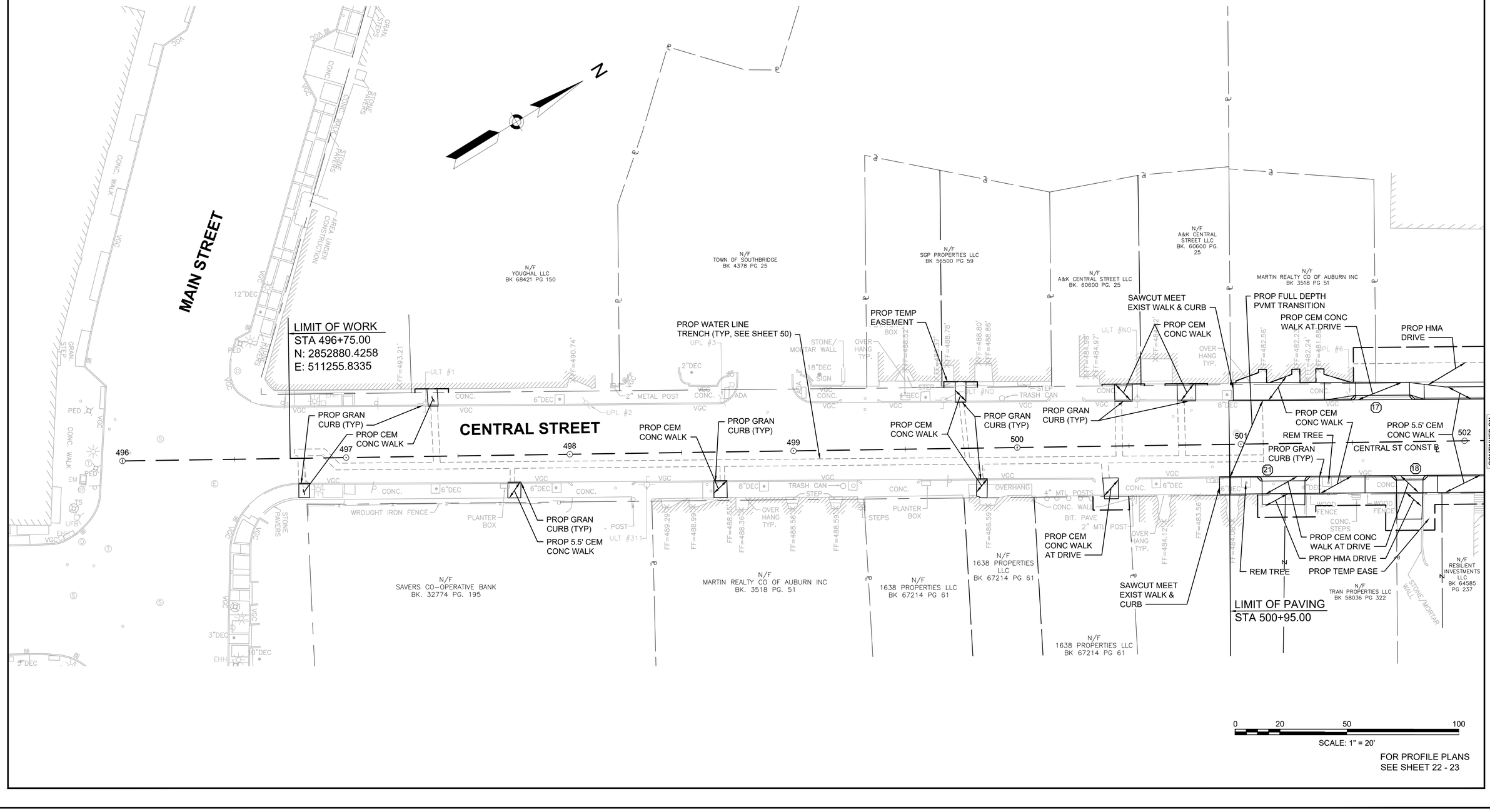


FOR PROFILE PLANS
SEE SHEET 22 - 23

HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

SEE SHEET 51

DRAINAGE DETAILS

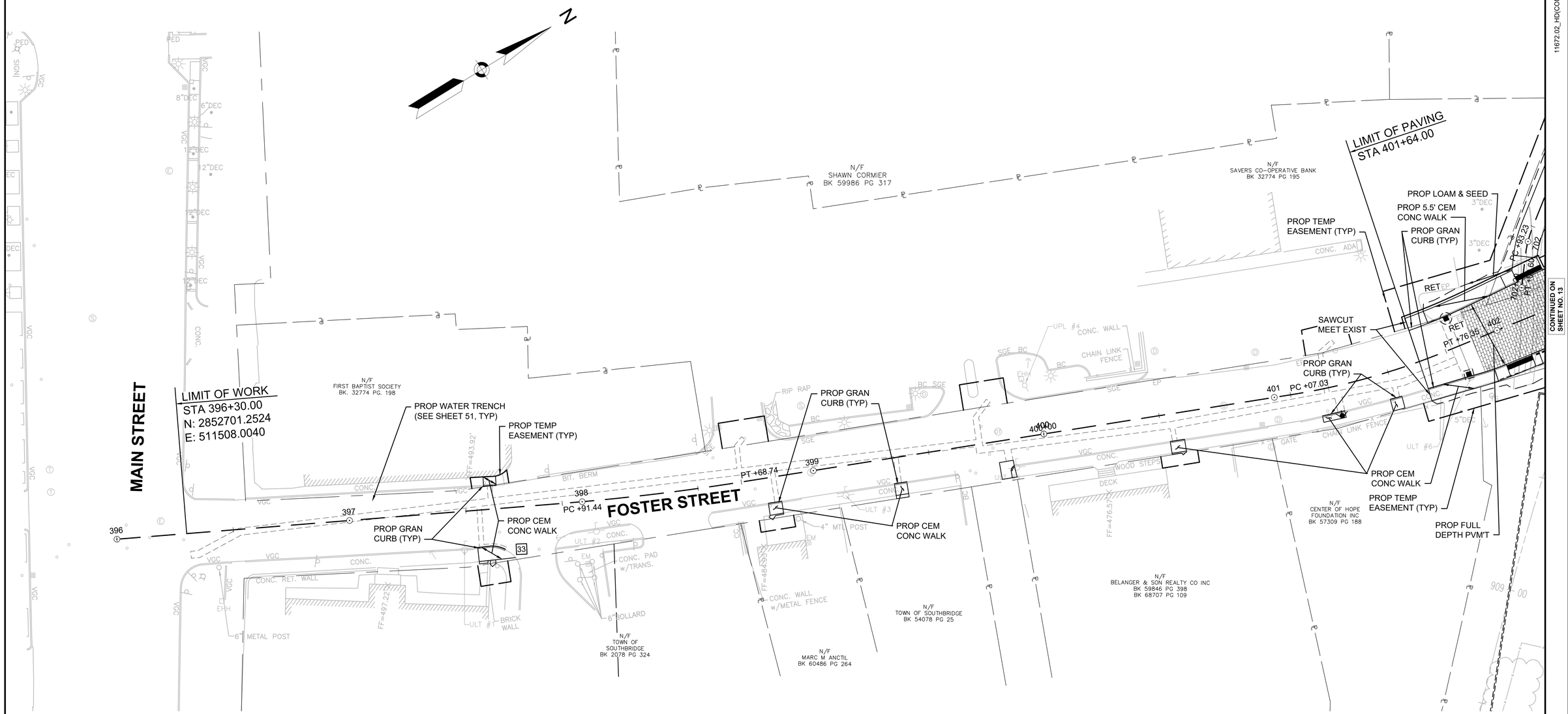
SEE SHEET 51

SOUTHBRIDGE
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/HSI-0033(042)X	15	91
PROJECT FILE NO.	608778		

CONSTRUCTION PLANS

11672.02_HD(CON).DWG Plotted on 28-May-2025 3:54 PM



0 20 50 100

SCALE: 1" = 20'

FOR PROFILE PLANS
SEE SHEET 19 - 20

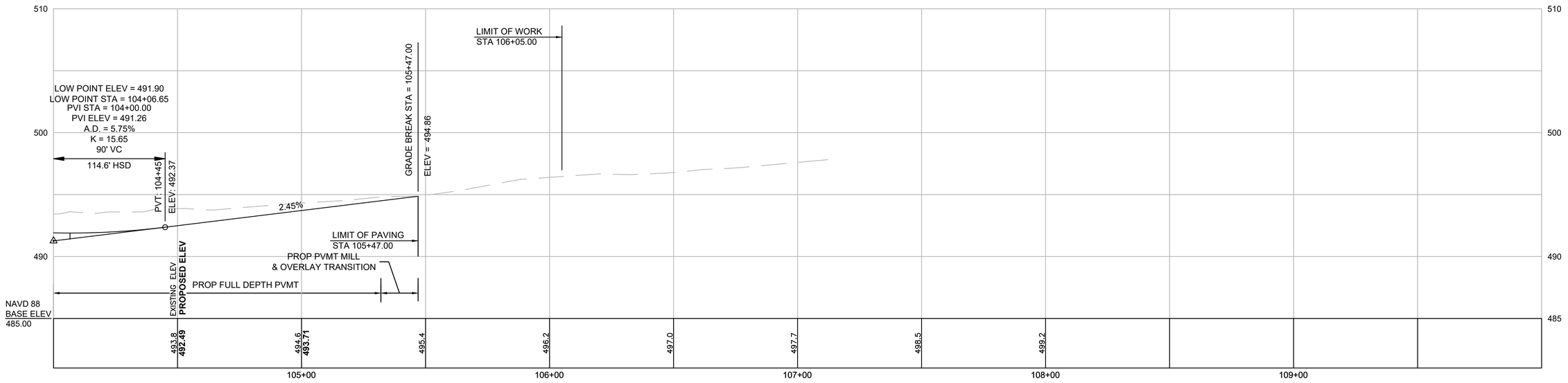
HAMILTON STREET

SOUTHBRIDGE
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/HSI-0033(042)X	16	91
PROJECT FILE NO.	608778		

PROFILES

HAMILTON STREET



FOR CONSTRUCTION PLANS SEE SHEETS 10-11

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

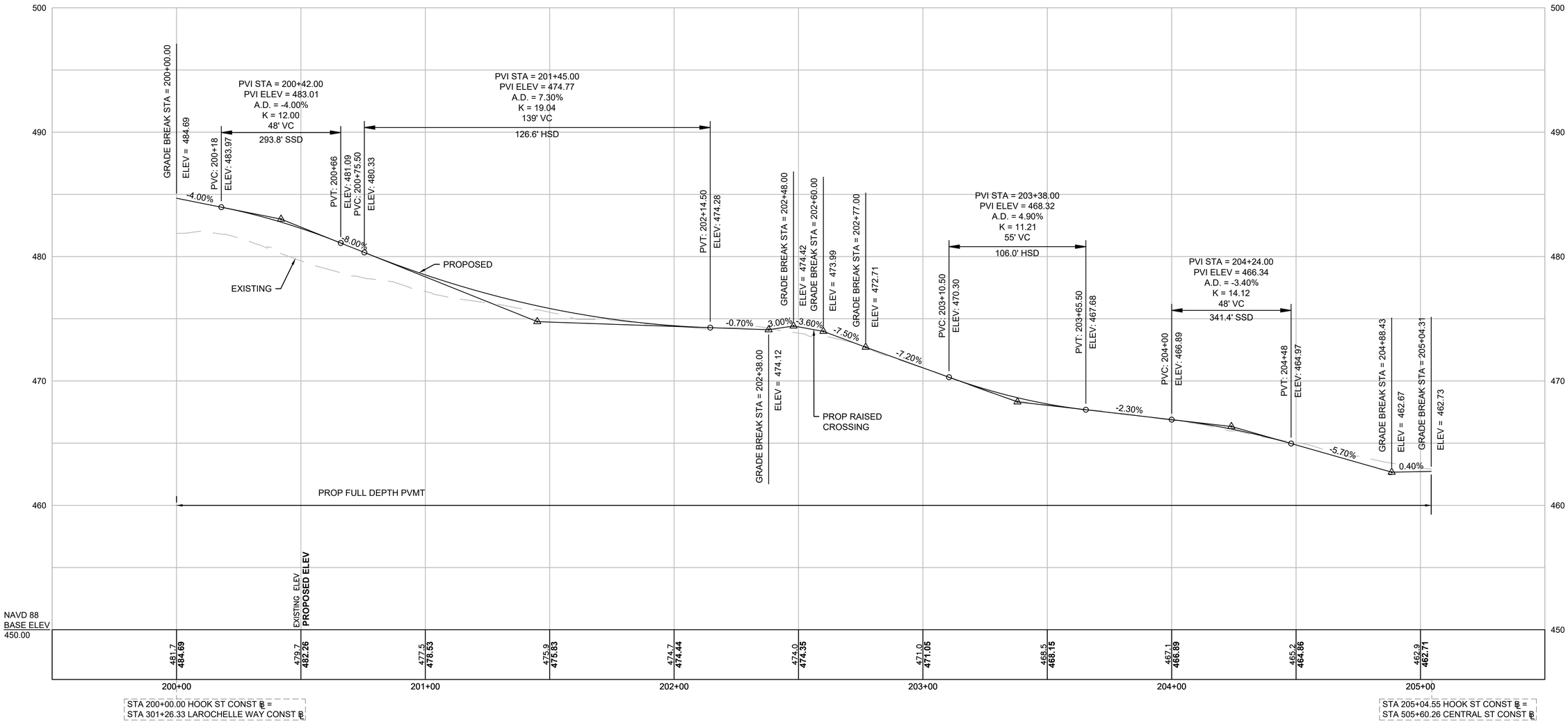
11672.02_HD(PROF).DWG Plotted on 28-May-2025 3:54 PM

SOUTHBRIDGE
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/HSI-0033(042)X	17	91
PROJECT FILE NO.	608778		

PROFILES

HOOK STREET



FOR CONSTRUCTION PLANS SEE SHEET 12

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

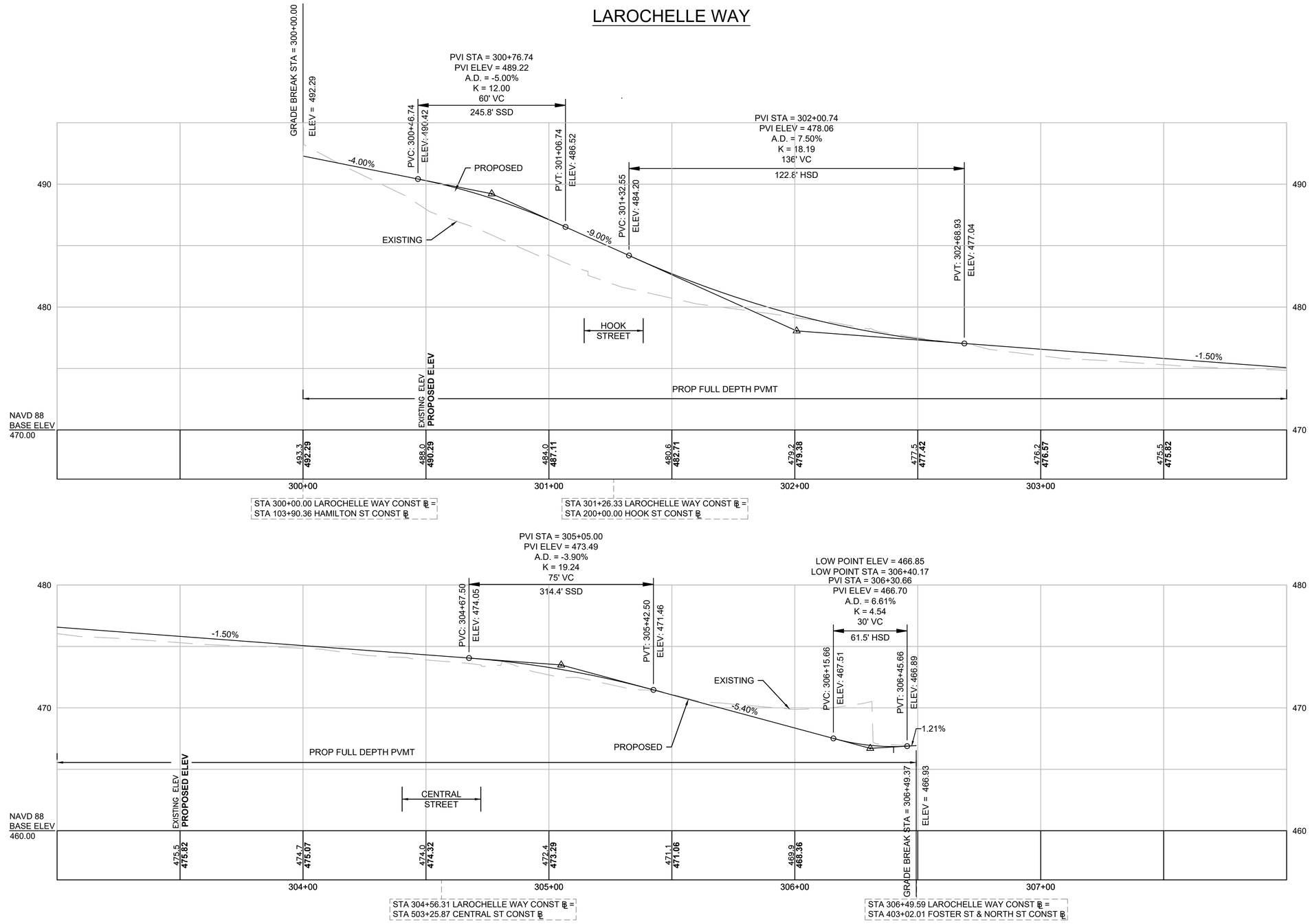
11672.02_HD(PROF).DWG Plotted on 28-May-2025 3:55 PM

LAROCHELLE WAY

SOUTHBRIDGE
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/HSI-0033(042)X	18	91
PROJECT FILE NO.	608778		

PROFILES



FOR CONSTRUCTION PLANS SEE SHEETS 11, 13

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

11672.02_HD(PROF).DWG Plotted on 28-May-2025 3:55 PM

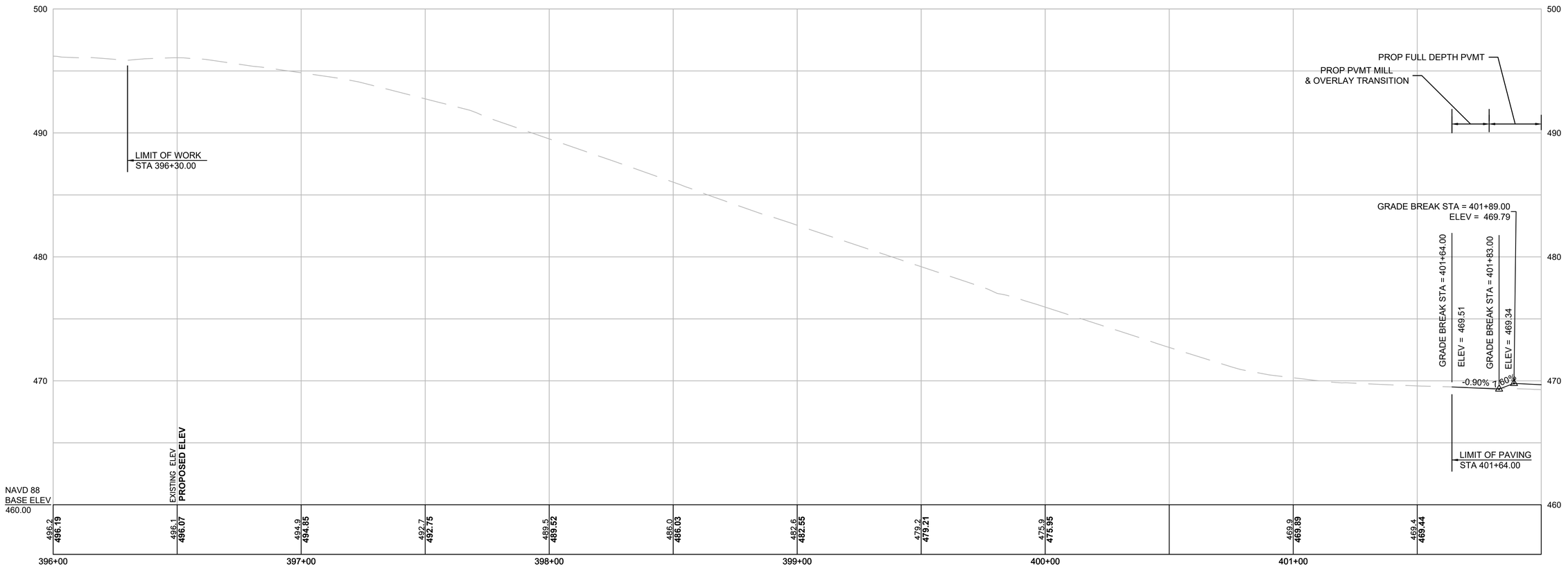
SOUTHBRIDGE
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/HSI-0033(042)X	19	91
PROJECT FILE NO.	608778		

PROFILES

11672.02_HD(PROF).DWG Plotted on 28-May-2025 3:55 PM

FOSTER-NORTH STREET



FOR CONSTRUCTION PLANS SEE SHEETS 13, 15

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

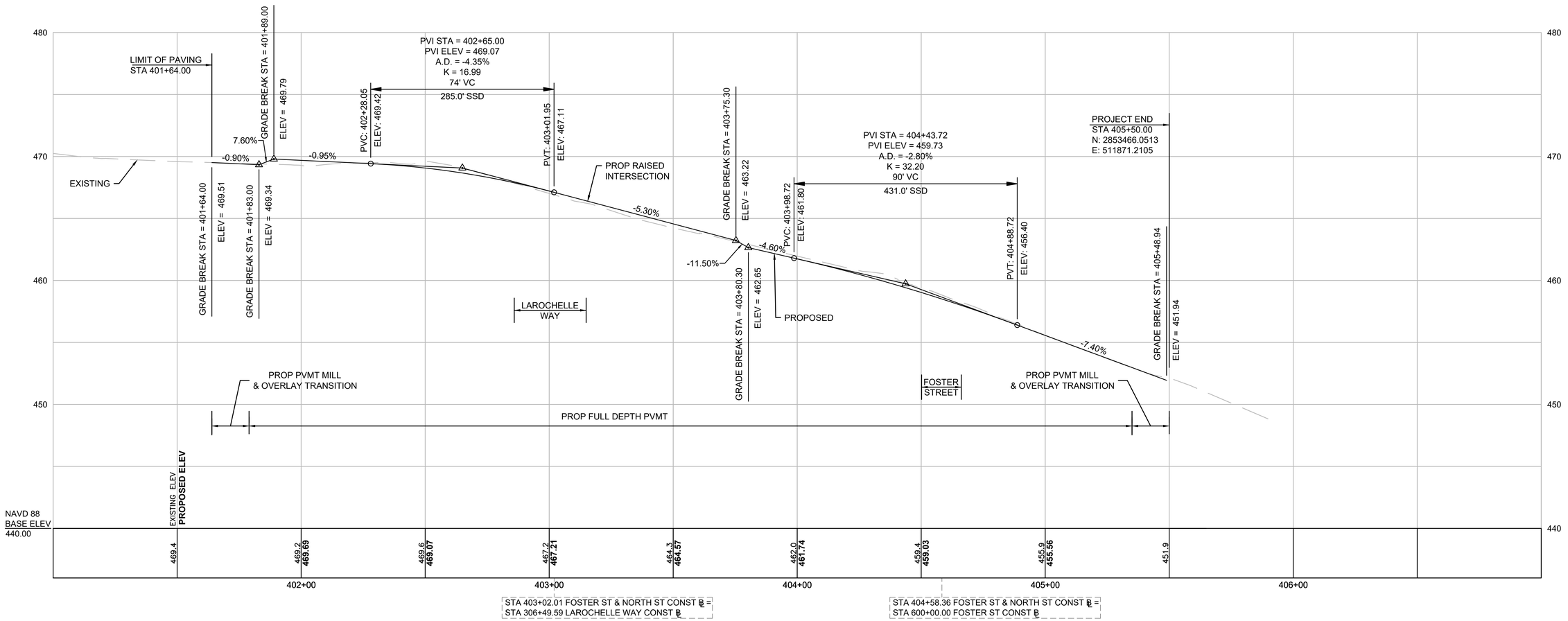
SOUTHBRIDGE
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/HSI-0033(042)X	20	91
PROJECT FILE NO.	608778		

PROFILES

11672.02_HD(PROF).DWG Plotted on 28-May-2025 3:55 PM

FOSTER-NORTH STREET



FOR CONSTRUCTION PLANS SEE SHEETS 13, 15

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

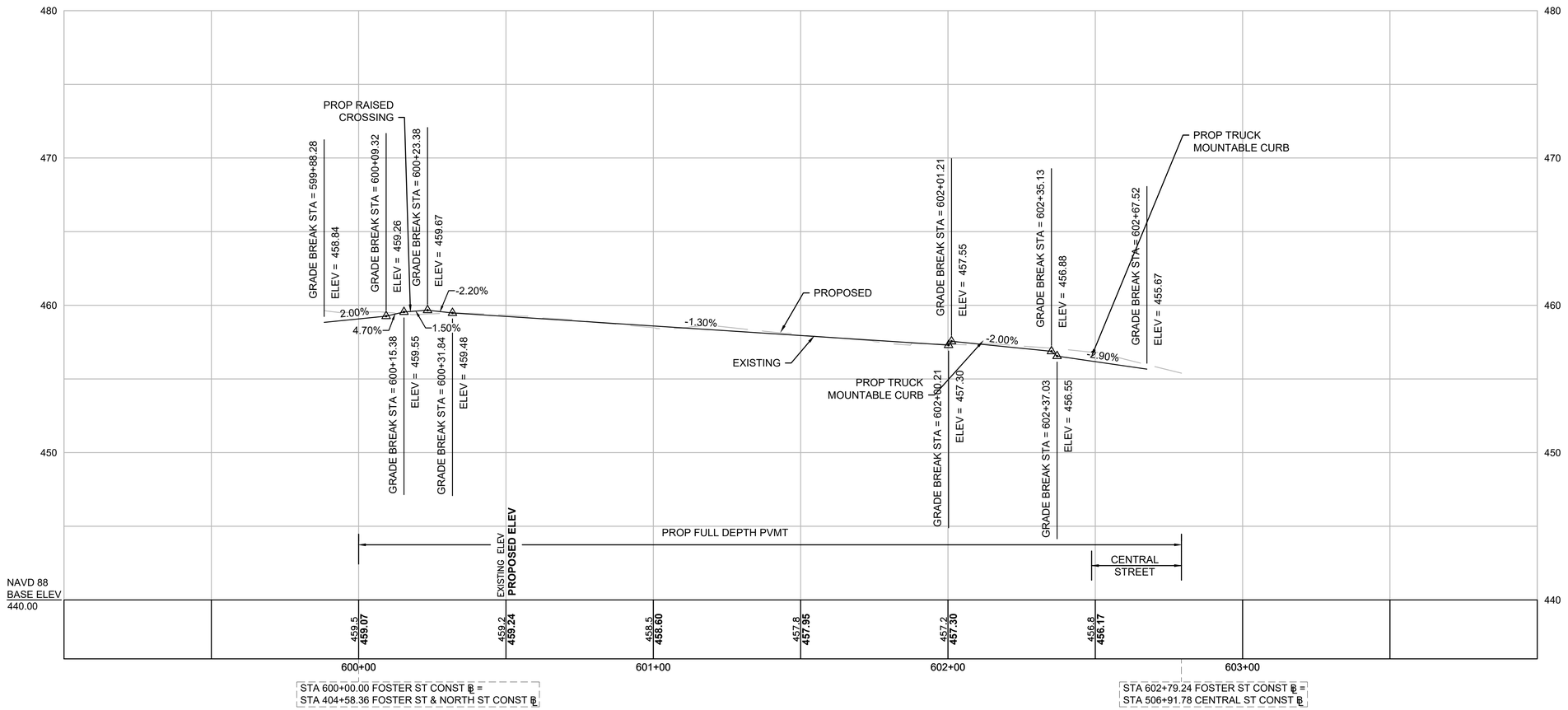
SOUTHBRIDGE
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/HSI-0033(042)X	21	91
PROJECT FILE NO.	608778		

PROFILES

11672.02_HD(PROF).DWG Plotted on 28-May-2025 3:55 PM

FOSTER STREET



FOR CONSTRUCTION PLANS SEE SHEET 12

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

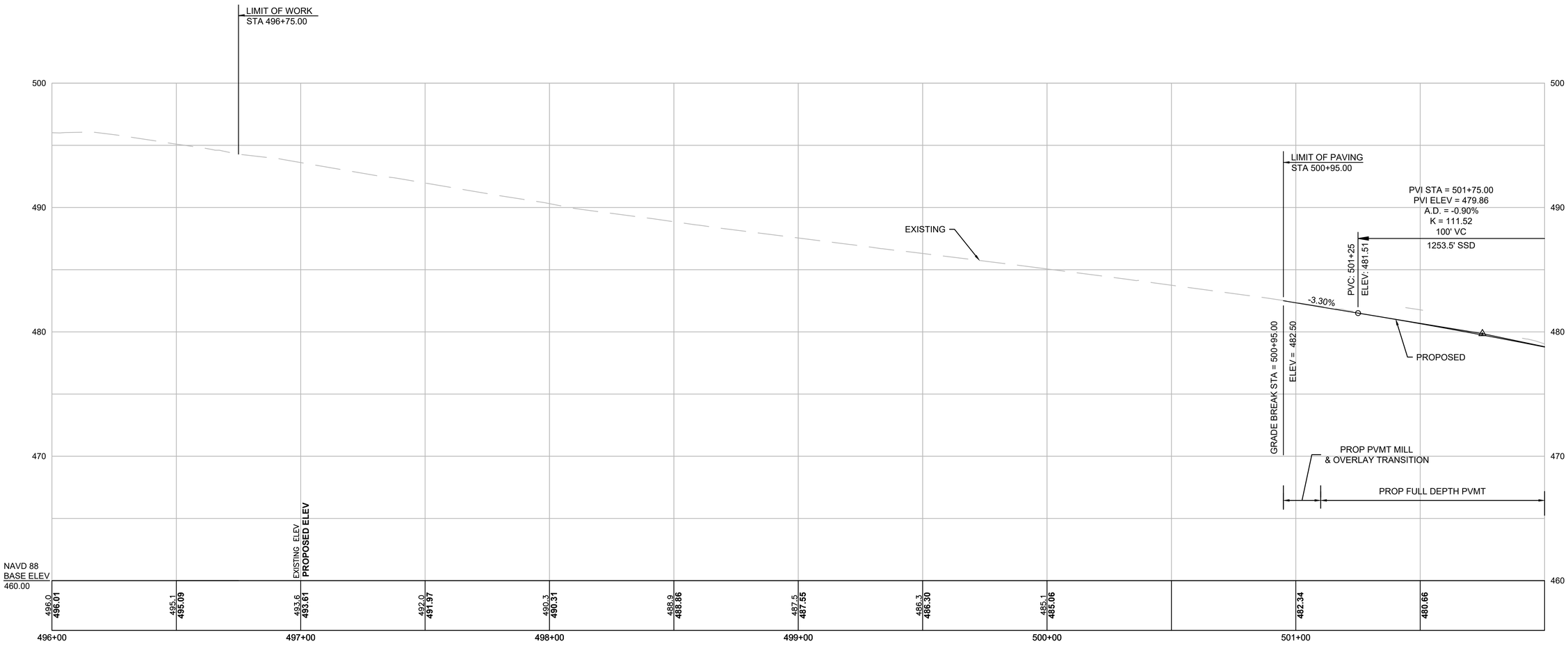
SOUTHBRIDGE
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/HSI-0033(042)X	22	91
PROJECT FILE NO.	608778		

PROFILES

11672.02_HD(PROF).DWG Plotted on 28-May-2025 3:55 PM

CENTRAL ST



FOR CONSTRUCTION PLANS SEE SHEETS 12-14

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

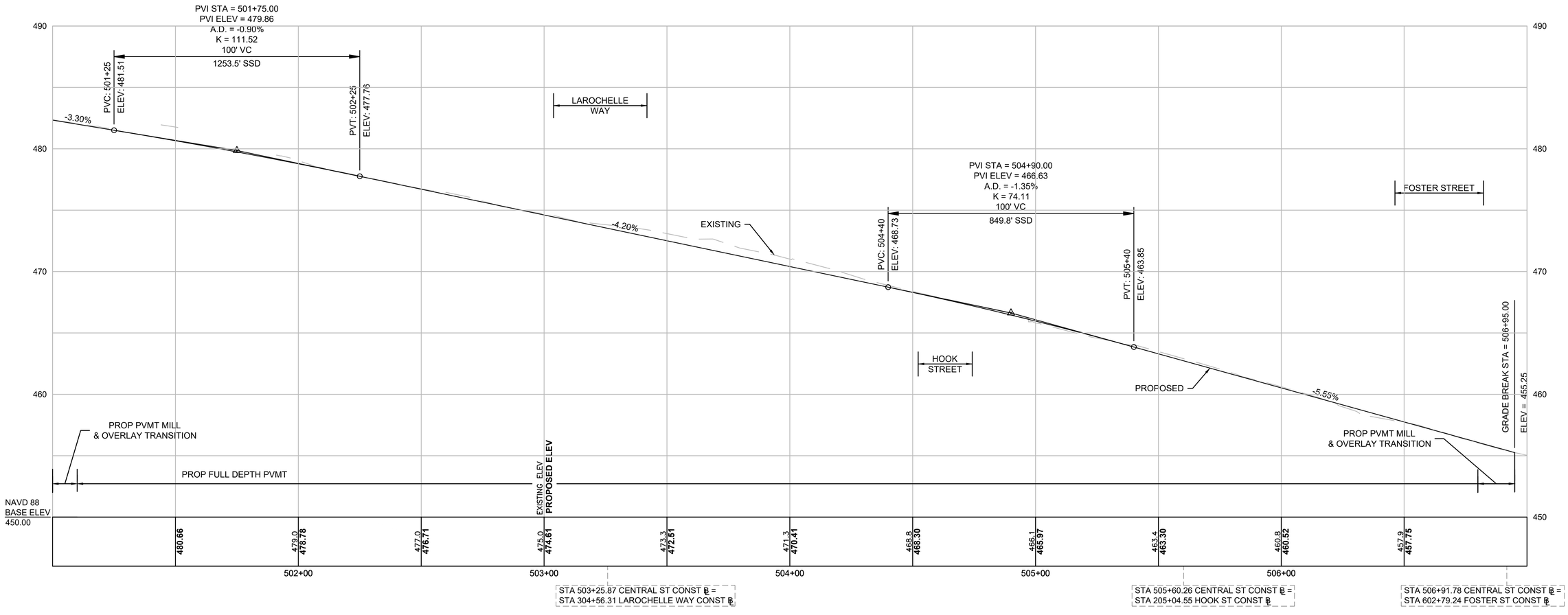
CENTRAL ST

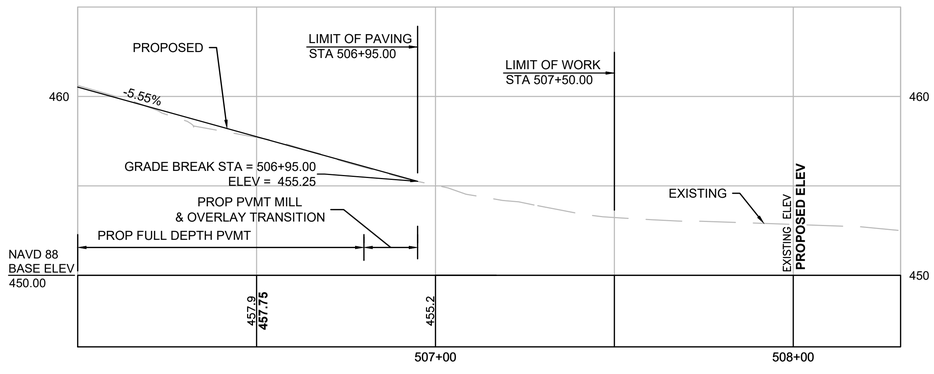
SOUTHBRIDGE
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/HSI-0033(042)X	23	91
PROJECT FILE NO.	608778		

PROFILES

11672.02_HD(PROF).DWG Plotted on 28-May-2025 3:55 PM





FOR CONSTRUCTION PLANS SEE SHEETS 12-14

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

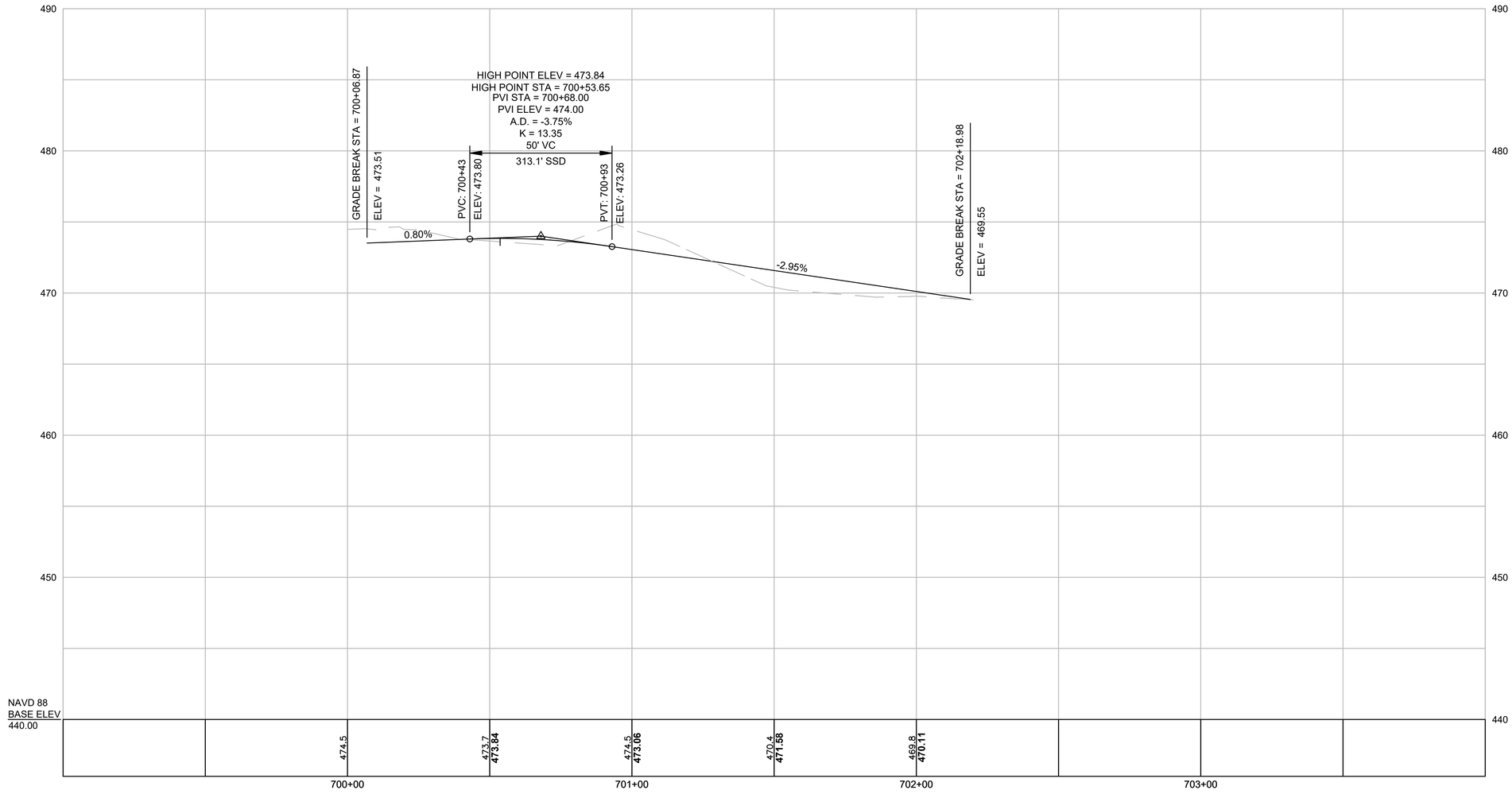
SOUTHBRIDGE
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/HSI-0033(042)X	24	91
PROJECT FILE NO.	608778		

PROFILES

11672.02_HD(PROF).DWG Plotted on 28-May-2025 3:55 PM

LAROCHELLE SUP



FOR CONSTRUCTION PLANS SEE SHEETS 13

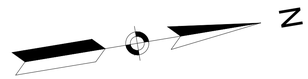
HOR. SCALE IN FEET
20 0 20 40
4 0 4 8
VER. SCALE IN FEET

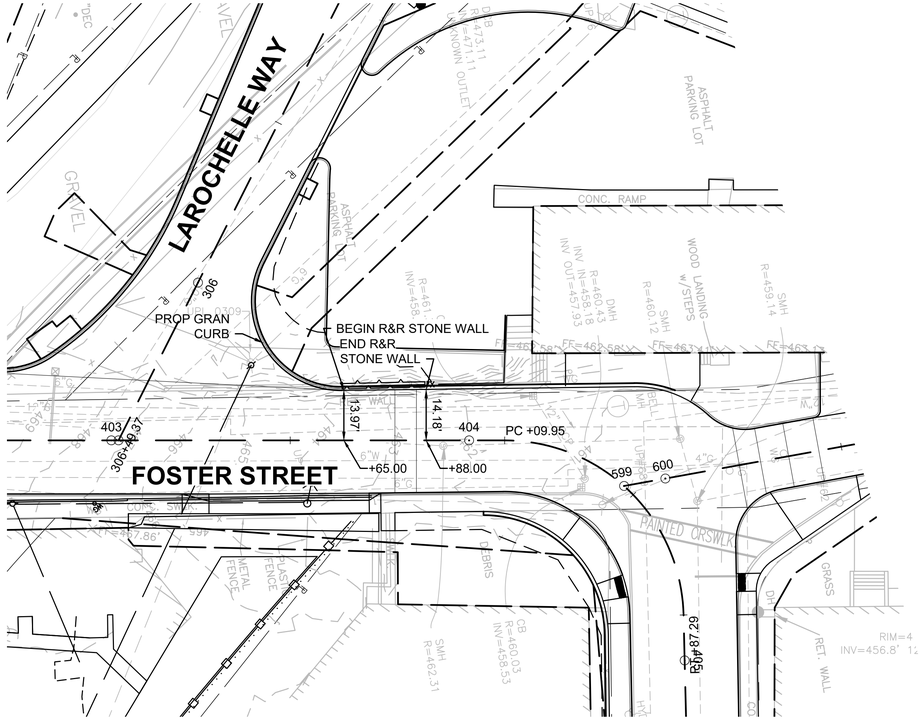
SOUTHBRIDGE
INTERSECTION IMPROVEMENTS

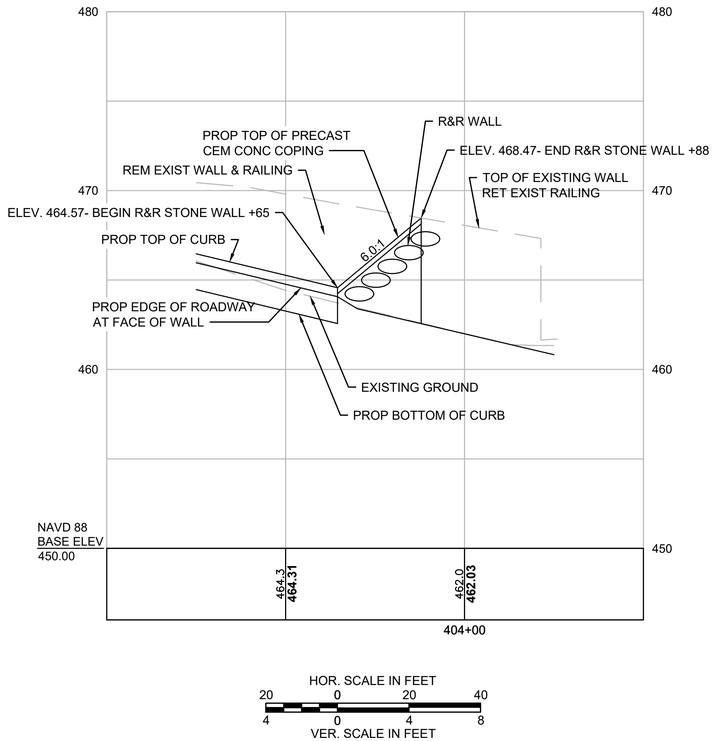
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/HSI-0033(042)X	25	91
PROJECT FILE NO.	608778		

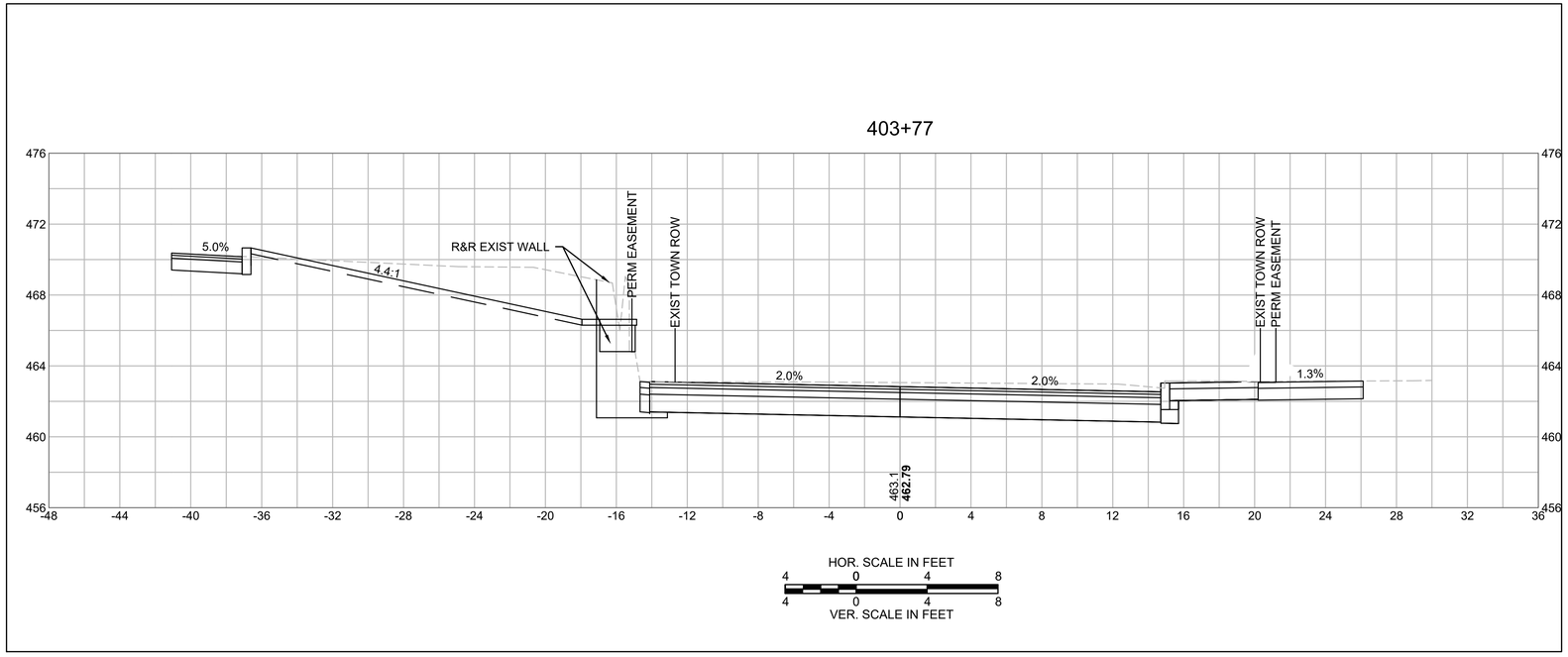
WALL PROFILES

11672.02_HDI(PROF-WALL).DWG Plotted on 28-May-2025 3:56 PM









SOUTHBRIDGE
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP/CMQ/HSI-0033(042)X	26	91
PROJECT FILE NO. 608778			

CURB TIE & GRADING PLANS

Plotted on 28-May-2025 3:56 PM
11672.02_HD(ALIGN).DWG

N

HAMILTON STREET

LIMIT OF PAVING
STA 101+92.00

LIMIT OF PAVING
STA 105+47.00

LIMIT OF WORK
STA 106+05.00
N: 2853781.9766
E: 511134.0045

LAROCHELLE WAY

HOOK STREET

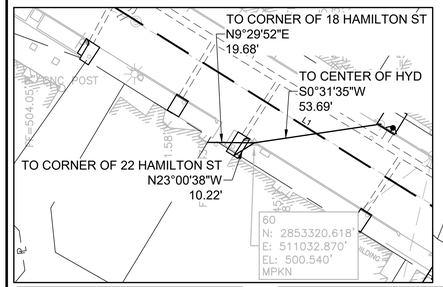
103+89.46 HAMILTON STREET=
300+00.00 LAROCHELLE WAY

301+26.12 LAROCHELLE WAY=
200+00.00 HOOK STREET

0 20 50 100
SCALE: 1" = 20'

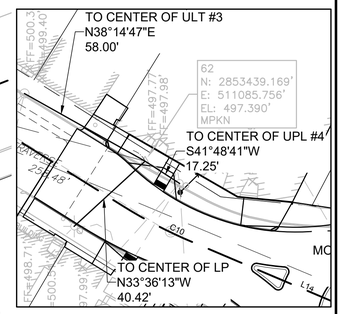
SURVEY TRAVERSE TIE #60

1" = 30'



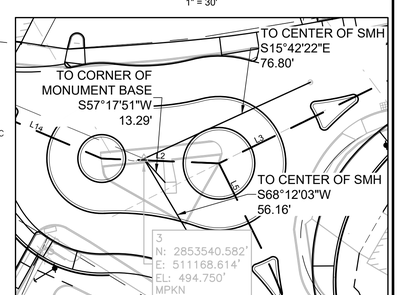
SURVEY TRAVERSE TIE #62

1" = 30'



SURVEY TRAVERSE TIE #3

1" = 30'



Curve Table			
Curve #	Delta	Radius	Length
C1	12°30'48"	50.00	10.92
C2	57°33'16"	100.00	100.45
C3	21°03'47"	40.00	14.70
C4	22°17'59"	84.00	32.69
C5	31°52'33"	45.00	25.04
C6	42°01'34"	75.00	55.01
C7	14°39'52"	300.00	76.78
C8	12°27'02"	200.00	43.46
C9	43°11'39"	85.00	64.08
C10	63°33'48"	40.00	44.38
C11	81°32'50"	65.00	92.51
C12	88°44'45"	5.00	7.74
C13	91°15'14"	5.00	7.96
C14	95°12'32"	25.00	41.54
C15	92°31'54"	2.00	3.23
C16	101°13'38"	2.00	3.53
C17	90°00'00"	2.00	3.14
C18	89°46'39"	2.00	3.13
C19	69°37'36"	35.00	42.53
C20	4°34'48"	213.00	17.03

Curve Table			
Curve #	Delta	Radius	Length
C21	63°21'35"	70.00	77.41
C22	25°58'22"	100.00	45.33
C23	7°22'19"	186.00	23.93
C24	7°21'51"	100.00	12.85
C25	10°10'31"	100.00	17.76
C26	150°10'17"	2.00	5.24
C27	5°43'58"	115.00	11.51
C28	113°08'24"	2.00	3.95
C29	6°37'56"	100.00	11.58
C30	8°23'55"	40.00	5.86
C31	111°59'18"	2.00	3.91
C32	114°50'29"	2.00	4.01
C33	9°05'51"	100.00	15.88
C34	156°51'10"	2.00	5.48
C35	7°56'12"	116.00	16.07
C36	116°13'50"	2.00	4.06
C37	10°49'49"	45.00	8.51
C38	117°08'12"	2.00	4.09
C39	9°04'39"	45.00	7.13
C40	114°50'29"	2.00	4.01

Curve Table			
Curve #	Delta	Radius	Length
C41	7°35'46"	100.00	13.26
C42	156°28'09"	2.00	5.46
C43	9°24'22"	80.00	13.13
C85	48°43'57"	24.50	20.84
C94	163°19'38"	3.00	8.55
C95	60°11'44"	85.00	89.30
C96	213°45'06"	28.00	104.46
C97	22°17'59"	101.00	39.31
C98	190°50'52"	23.00	76.61
C99	22°17'59"	101.00	39.31
C100	56°31'54"	74.74	73.74
C101	32°34'01"	96.15	54.65

CONTINUED ON SHEET NO. 29

CONTINUED ON SHEET NO. 29

SOUTHBRIDGE
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP/CMQ/HSI-0033(042)X	27	91
PROJECT FILE NO. 608778			

CURB TIE & GRADING PLANS

Plotted on 28-May-2025 3:57 PM
11672.02_HD(ALIGN).DWG

N

HAMILTON STREET

LIMIT OF PAVING
STA 101+92.00

LIMIT OF PAVING
STA 105+47.00

LIMIT OF WORK
STA 106+05.00
N: 2853781.9766
E: 511134.0045

PT +62.95

N/F
31-33 HAMILTON LLC
BK 58665 PG 312

N/F
YOUGHAL LLC
BK 53520 PG 119

N/F
EDDCO REALTY TRUST
BK 7117 PG 209
BK 8971 PG 272
BK 6668 PG 385

N/F
D & B REAL ESTATE
HOLDINGS LLC
BK 60152 PG 252

N/F
SIMON SAYS REALTY LLC
BK 53465 PG 0226

N/F
DNANANJAY SWADIA &
TIKENDRA PATEL
BK 20070 PG 309

N/F
SIMON SAYS
REALTY LLC
BK 53465 PG 226

N/F
WILSON SOUTHBRIDGE
REALTY TRUST
BK 41280 PG 182

N/F
DNAPA LLC
BK 57211 PG 96

N/F
36 HAMILTON
STREET TRUST
BK 65806 PG 251
BK 65806 PG 248

N/F
STEPHEN M. DAY
BK 65087 PG 365

N/F
WILSON SOUTHBRIDGE REALTY TRUST
BK 41280 PG 177

N/F
CAQUETTE RACHEAL H
BK. 87 PG. 90
LCC NO .18110B
CERT NO. 5288

N/F
TOWN OF SOUTHBRIDGE
BK 58831 PG 0373

N/F
PABLO SANTIAGO
BK 64406 PG 93

N/F
TOWN OF SOUTHBRIDGE
BK 4378 PG 25

N/F
AK SOUTHBRIDGE REALTY TRUST
BK 54763 PG 3

N/F
TOWN OF SOUTHBRIDGE
BK 3316 PG 136

N/F
TASSE PROPERTIES LLC
BK 57691 PG 134

N/F
COMMONWEALTH OF MA
BK 34530 PG 37

LAROCHELLE WAY

HOOK STREET

103+89.46 HAMILTON STREET=
300+00.00 LAROCHELLE WAY

301+26.12 LAROCHELLE WAY=
200+00.00 HOOK STREET

PROP CEM CONC WALK
WIDTH VARIES 9.4' TO 14'

PROP CEM
CONC WALK
WIDTH VARIES
6.5' TO 9.2'

PROP 5.5' CEM
CONC WALK

PROP CEM
CONC WALK
WIDTH VARIES
5.5' TO 13'

PROP CEM CONC WALK
WIDTH VARIES 8.4' TO 12.4'

PROP 3"
REVEAL

PROP CEM
CONC WALK
WIDTH VARIES
10.9' TO 17'

PROP 3" REVEAL

60
N: 2853320.618'
E: 511032.870'
EL: 500.540'
MPKN

62
N: 2853439.169'
E: 511085.756'
EL: 497.390'
MPKN

3
N: 2853540.582'
E: 511168.614'
EL: 494.750'
MPKN

SURVEY TRAVERSE TIE #60

1" = 30'

TO CORNER OF 18 HAMILTON ST
N9°29'52"E
19.68'

TO CENTER OF HYD
S0°31'35"W
53.69'

TO CORNER OF 22 HAMILTON ST
N23°00'38"W
10.22'

SURVEY TRAVERSE TIE #62

1" = 30'

TO CENTER OF ULT #3
N38°14'47"E
58.00'

TO CENTER OF UPL #4
S41°48'41"W
17.25'

TO CENTER OF LP
N33°36'13"W
40.42'

SURVEY TRAVERSE TIE #3

1" = 30'

TO CENTER OF SMH
S15°42'22"E
76.80'

TO CORNER OF
MONUMENT BASE
S57°17'51"W
13.29'

TO CENTER OF SMH
S68°12'03"W
56.16'

SURVEY TRAVERSE
N24°02'31"E
129.81'

SURVEY TRAVERSE
N31°40'46"E
258.48'

SURVEY TRAVERSE
N27°46'40"E
66.94'

PC +25.63
PT +57.38
PRC +13.34
PC +67.42
PC +09.27
PCC +60.36

R=15.00'
PI +89.46
R=10.00'
PI +40.30

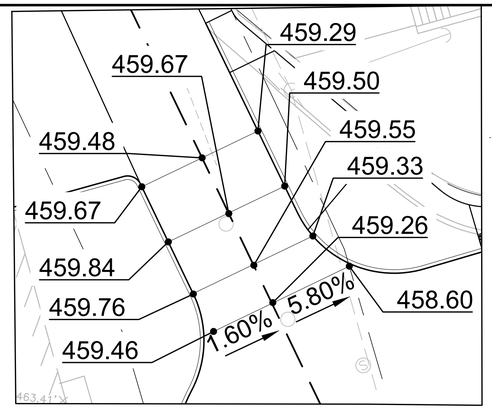
9.0% +15.00
2.0% +35

0 20 50 100
SCALE: 1" = 20'

CONTINUED ON SHEET NO. 29
CONTINUED ON SHEET NO. 28

Curve Table			
Curve #	Delta	Radius	Length
C14	95°12'32"	25.00	41.54
C15	92°31'54"	2.00	3.23
C16	101°13'38"	2.00	3.53
C17	90°00'00"	2.00	3.14
C18	89°46'39"	2.00	3.13
C19	69°37'36"	35.00	42.53
C44	83°58'57"	15.00	21.99
C45	90°00'00"	5.00	7.85
C46	90°00'00"	2.00	3.14
C47	89°38'10"	5.00	7.82
C48	81°02'24"	10.00	14.14
C49	80°40'34"	2.00	2.82
C50	82°37'47"	2.00	2.88
C51	82°15'57"	10.00	14.36
C52	66°25'20"	10.00	11.59
C53	119°33'07"	10.00	20.87
C54	53°07'48"	10.00	9.27
C55	41°24'35"	10.00	7.23
C56	74°31'40"	10.00	13.01
C57	62°54'17"	20.00	21.96

Curve Table			
Curve #	Delta	Radius	Length
C58	29°52'42"	30.00	15.64
C59	58°35'28"	5.00	5.11
C60	81°41'03"	8.00	11.41
C61	101°23'40"	3.00	5.31
C64	88°50'55"	2.00	3.10
C67	79°54'15"	2.00	2.79
C68	52°55'14"	15.00	13.85
C69	43°23'10"	30.00	22.72
C70	80°30'14"	15.00	21.08
C71	71°10'30"	35.00	43.48
C72	65°23'06"	60.00	68.47
C73	90°00'00"	2.50	3.93
C75	58°23'12"	25.00	25.48



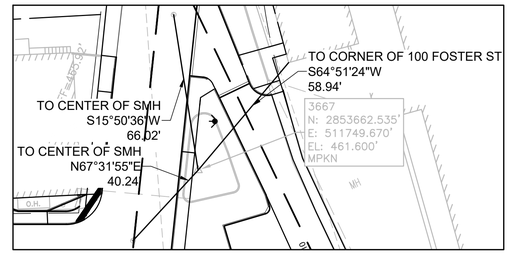
INSET A
1" = 10'

SOUTHBRIDGE
INTERSECTION IMPROVEMENTS

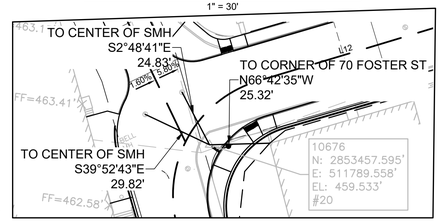
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP/CMQ/HSI-0033(042)X	28	91
PROJECT FILE NO. 608778			

CURB TIE & GRADING PLANS

SURVEY TRAVERSE TIE 3667
1" = 30'



SURVEY TRAVERSE TIE 10676
1" = 30'



PROJECT END
STA 405+50.00
N: 2853466.0513
E: 511871.2105

HOOK STREET

CENTRAL STREET

FOSTER STREET

NORTH STREET

LIMIT OF WORK
STA 507+50.00
N: 2853807.7656
E: 511797.6554

LIMIT OF PAVING
STA 506+95.00

602+79.24 FOSTER STREET=
506+91.78 CENTRAL ST

205+04.55 HOOK STREET=
505+60.26 CENTRAL ST

599+88.28 FOSTER STREET=
404+46.47 FOSTER-NORTH STREET

SEE INSET A FOR GRADING DETAILS

SCALE: 1" = 20'

CONTINUED ON SHEET NO. 26
CONTINUED ON SHEET NO. 29
CONTINUED ON SHEET NO. 29

11672.02_HD(ALIGN).DWG Plotted on 28-May-2025 3:57 PM

SOUTHBRIDGE
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP/CMQ/HSI-0033(042)X	29	91
PROJECT FILE NO. 608778			

CURB TIE & GRADING PLANS

11672.02_HD(ALIGN).DWG Plotted on 28-May-2025 3:57 PM

CONTINUED ON SHEET NO. 26

CONTINUED ON SHEET NO. 28

CONTINUED ON SHEET NO. 28

N

LAROCHELLE WAY

CENTRAL STREET

FOSTER STREET

PROJECT END
STA 405+50.00
N: 2853466.0513
E: 511871.2105

599+88.28 FOSTER STREET=
404+46.47 FOSTER-NORTH STREET

304+56.09 LAROCHELLE WAY=
503+25.87 CENTRAL ST

306+49.37 LAROCHELLE WAY (1)=
403+02.01 FOSTER-NORTH STREET

LIMIT OF PAVING
STA 500+95.00

LIMIT OF PAVING
STA 401+64.00

RAISED INTERSECTION TRANSITION (TYP)

PROP 3" REVEAL

PROP 6" REVEAL

MEET EXISTING
+94.9
19.5' LT

MEET EXISTING
+94.9
14.5' RT

MEET EXISTING
+63.8
12.2' RT

MEET EXISTING
+64.5
14.0' LT

N/F
TOWN OF SOUTHBRIDGE
BK 3316 PG 136

N/F
VELOZ & ASSOCIATES LLC
BK 69137 PG 378

N/F
ITAL AMER ASSOC SOUTHBRIDGE
BK 2765 PG 136

N/F
TOWN OF SOUTHBRIDGE
BK 12709 PG 158

N/F
CENTER OF HOPE
FOUNDATION INC
BK 57309 PG 188

N/F
AK SOUTHBRIDGE REALTY TRUST
BK 54763 PG 3

N/F
MARTIN REALTY CO OF AUBURN INC
BK 3518 PG 51

N/F
RESILIENT
INVESTMENTS LLC
BK 64585 PG 237

N/F
TRAN PROPERTIES LLC
BK 58036 PG 322

N/F
COMMONWEALTH OF
MASSACHUSETTS
BK 34530 PG 37

N/F
DANIEL T. MORRILL
FUNERAL HOME LLC
BK 45543 PG 103

N/F
SAVERS CO-OPERATIVE BANK
BK 32774 PG 195

CC +50.70
24.89' RT

AP +32.18
AP +27.14' RT
27.65' RT

CC +06.36
31.61' RT

PCC +47.04
12.00' RT

PRC +59.73
15.73' LT

PC +87.25
30.43' RT

CC +31.40
21.00' RT

CC +31.36
26.68' RT

PC +65.04
16.00' RT

PT +05.91
27.00' RT

CC +65.09
24.65' RT

PRC +79.89
20.02' RT

PC +07.84
27.01' RT

PT +68.52
18.13' LT

PT +99.40
33.90' LT

PT +04.57
61.90' LT

PT +79.89
40.96' LT

PT +77.81
16.04' LT

PC +76.01
16.00' LT

PCC +28.23
30.72' LT

PC +85.87
16.00' RT

PT +90.74
21.00' RT

PT +07.69
27.43' RT

PT +05.69
39.32' LT

PC +23.69
13.00' LT

PT +12.24
13.00' LT

PC +77.07
33.64' RT

PCC +95.10
16.85' LT

PT +56.24
13.00' LT

PC +86.61
13.00' LT

PC +81.65
14.90' RT

PCC +36.66
27.01' LT

PT +70.95
19.15' LT

END CURB +10.97
34.95' LT

END CURB +64.49
13.96' LT

CC +87.66
36.99' LT

PC +26.97
9.34' LT

PRC +11.87
18.83' LT

PC +35.37
24.40' RT

PC +09.95

PT +87.29

PC +09.48
14.32' RT

PC +86.39
15.03' RT

PT +97.60
15.00' RT

PC +86.03
14.33' RT

PC +93.23
PT +06.60

PT +93.44
14.51' LT

PC +07.03

R=20.00'
L=10.79'
T=5.53'

R=50.00'
L=32.96'
T=17.10'

+95.12
OFFSET: 80.24

+79.34
OFFSET: 40.75

+74.22
OFFSET: 43.80

+96.56
OFFSET: 23.63

+11.71
OFFSET: 54.39

+02.93
OFFSET: 59.33

+10.16
OFFSET: 71.27

TIE 16.57' @ 270.09° SURVEY TRAVERSE

10676
N: 2853457.595'
E: 511789.558'
EL: 459.533'
#20

53
N: 2853283.588'
E: 511471.484'
EL: 481.810'
MPKN

55
N: 2853232.492'
E: 511484.571'
EL: 482.800'
MPKN

TO CENTER OF UPL 6
S34°01'56"W
17.41'

TO CORNER OF 61 CENTRAL ST
S38°04'44"E
6.36'

TO CORNER OF SMH
N5°01'20"E
37.41'

SURVEY TRAVERSE TIE 53
1" = 30'

N31°40'40"E 167.66'
SURVEY TRAVERSE

0 20 50 100
SCALE: 1" = 20'

Curve Table			
Curve #	Delta	Radius	Length
C12	88°44'45"	5.00	7.74
C13	91°15'14"	5.00	7.96
C17	90°00'00"	2.00	3.14
C45	90°00'00"	5.00	7.85
C46	90°00'00"	2.00	3.14
C47	89°38'10"	5.00	7.82
C48	81°02'24"	10.00	14.14
C49	80°40'34"	2.00	2.82
C50	82°37'47"	2.00	2.88
C51	82°15'57"	10.00	14.36
C68	52°55'14"	15.00	13.85
C69	43°23'10"	30.00	22.72
C70	80°30'14"	15.00	21.08
C72	65°23'06"	60.00	68.47
C73	90°00'00"	2.50	3.93
C74	28°50'06"	75.00	37.74
C75	58°23'12"	25.00	25.48
C76	91°33'17"	5.00	7.99
C77	90°53'38"	5.00	7.93
C78	29°43'10"	30.00	15.56

Curve Table			
Curve #	Delta	Radius	Length
C79	30°01'13"	52.00	27.25
C80	31°28'46"	100.00	54.94
C81	17°05'33"	40.00	11.93
C82	37°08'44"	40.00	25.93
C83	160°42'37"	3.00	8.41
C84	90°00'00"	2.50	3.93
C86	158°10'36"	3.00	8.28
C87	117°27'22"	25.00	51.25
C88	90°33'10"	30.00	47.41
C89	91°31'54"	16.00	25.56
C90	32°42'59"	100.00	57.10
C91	31°04'05"	25.00	13.56
C92	5°41'01"	286.00	28.37
C93	6°38'42"	100.00	11.60
C102	65°17'46"	20.00	22.79

SOUTHBRIDGE
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP/CMQ/HSI-0033(042)X	30	91
PROJECT FILE NO. 608778			

ALIGNMENT DATA TABLES

11672.02_HD(ALIGN).DWG Plotted on 28-May-2025 3:57 PM

HAMILTON STREET CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L1	99+00.00	2853181.6403	510889.2812		N41°02'03"E 225.63'	102+25.63	2853427.2669	511103.0580
C10	102+25.63	2853427.2669	511103.0580	R=200.00' Δ=9°05'46" L=31.75' T=15.91'		102+57.38	2853452.7683	511121.9184
L14	102+57.38	2853452.7683	511121.9184		N31°56'17"E 82.92'	103+40.30	2853523.1335	511165.7817
L2	103+40.30	2853523.1335	511165.7817		N11°18'59"E 49.17'	103+89.46	2853571.3470	511175.4300
L3	103+89.46	2853571.3470	511175.4300		N17°06'24"W 77.95'	104+67.42	2853645.8498	511152.5005
C2	104+67.42	2853645.8498	511152.5005	R=200.00' Δ=13°09'21" L=45.92' T=23.06'		105+13.34	2853690.9229	511144.2505
C3	105+13.34	2853690.9229	511144.2505	R=1000.00' Δ=8°34'19" L=149.61' T=74.94'		106+62.95	2853838.9068	511123.2411

LAROCHELLE WAY CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L5	300+00.00	2853571.3470	511175.4300		N72°24'32"E 41.23'	300+41.23	2853583.8078	511214.7323
C4	300+41.23	2853583.8078	511214.7323	R=200.00' Δ=48°15'51" L=168.47' T=89.60'		302+09.70	2853565.1792	511377.2043
L6	302+09.70	2853565.1792	511377.2043		S59°19'38"E 246.39'	304+56.09	2853439.4880	511589.1206
L13	304+56.09	2853439.4880	511589.1206		S53°52'24"E 193.28'	306+49.37	2853325.5362	511745.2347

CENTRAL ST CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L9	496+00.00	2852816.0048	511217.4287		N30°48'05"E 690.58'	506+90.58	2853752.7530	511775.8747
C7	506+90.58	2853752.7530	511775.8747	R=185.00' Δ=25°04'41" L=80.97' T=41.15'		507+71.55	2853829.0358	511801.0473

HOOK STREET CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L7	200+00.00	2853591.7849	511298.6034		N5°49'35"E 9.27'	200+09.27	2853601.0055	511299.5443
C5	200+09.27	2853601.0055	511299.5443	R=140.00' Δ=61°50'10" L=151.09' T=83.85'		201+60.36	2853716.2882	511385.6126
C6	201+60.36	2853716.2882	511385.6126	R=210.00' Δ=47°07'17" L=172.71' T=91.58'		203+33.07	2853712.7043	511553.4566
L8	203+33.07	2853712.7043	511553.4566		S65°12'58"E 171.48'	205+04.55	2853640.8193	511709.1450

FOSTER-NORTH STREET CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L15	396+00.00	2852674.5374	511494.3547		N22°38'04"E 107.03'	401+07.03	2853135.0854	511705.6405
C9	401+07.03	2853135.0854	511705.6405	R=300.00' Δ=13°14'21" L=69.32' T=34.82'		401+76.35	2853201.5670	511724.7224
L11	401+76.35	2853201.5670	511724.7224		N9°23'43"E 233.60'	404+09.95	2853432.0331	511762.8561
C8	404+09.95	2853432.0331	511762.8561	R=50.00' Δ=88°37'18" L=77.34' T=48.81'		404+87.29	2853473.3823	511819.1586
L12	404+87.29	2853473.3823	511819.1586		S81°58'59"E 102.57'	405+89.86	2853459.0780	511920.7218

FOSTER STREET CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L10	599+88.28	2853462.8568	511780.8788		N0°51'50"W 290.96'	602+79.24	2853753.7886	511776.4921

LAROCHELLE SUP (1) CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L19	700+00.00	2853416.7752	511583.9377		S36°27'08"E 193.23'	701+93.23	2853261.3502	511698.7453
C14	701+93.23	2853261.3502	511698.7453	R=50.00' Δ=15°19'30" L=13.37' T=6.73'		702+06.60	2853251.7773	511708.0268
L20	702+06.60	2853251.7773	511708.0268		S51°46'37"E 13.40'	702+20.00	2853243.4884	511718.5514

SOUTHBRIDGE
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/HSI-0033(042)X	31	91
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SIGNING & PAVEMENT MARKING PLANS

11672.02_HD(SPM).DWG Plotted on 28-May-2025 3:58 PM

N

HAMILTON STREET

LIMIT OF PAVING
STA 101+92.00

LIMIT OF PAVING
STA 105+47.00

LIMIT OF WORK
STA 106+05.00
N: 2853781.9766
E: 511134.0045

101 102 104 105 106 107

PT +62.95

PRC +13.34

PC +67.42

PT +57.38

PC +09.27

PI +89.46

PI +74.30

R7-1R

R7-1L

W2-6
W16-17p

W11-2
W16-7p(L)

TWO MA-D3-1f SEE ASSEMBLY C ON SIGN MOUNTING DETAIL ON SHEET 35

R6-1L(POS)
R3-2

RET "COUNTRY FARMS" SIGN

4" SWL @ 45°, 4' O.C.

9'

20'

4"SWL

R6-2R

R1-2
R6-5P

SEE CROSSWALK DETAIL ON SHEET 57 (TYP)

10' CW

SWL

SYL

2'

13'

1'

YIELD TRIANGLE (TYP)
(SEE DETAIL ON SHEET 57

R&S
R7-1

R1-2
R6-5P

2' WDWL W/2' GAPS (TYP)

R&S
R4-D3-1b
RMV

R&R (BO)
PARKING LOT SIGN

R6-2R

TWO MA-D3-1a (POS) SEE ASSEMBLY C ON SIGN MOUNTING DETAIL SHEET 35

W11-2
W16-7p(L)

R3-17

R&S
MA-D3-1a

R&S
R2-1(10)

R&S
R7-108
Winter Parking

TWO MA-D3-1f (POS) SEE ASSEMBLY C ON SIGN MOUNTING DETAIL ON SHEET 35

R1-2
R6-5P

R1-1
TWO MA-D3-1b (POS)
SEE ASSEMBLY A ON SIGN MOUNTING DETAIL ON SHEET 35

W11-2
W16-7p(L)

10' CW

DBYL

2' DWLEx W/6' GAPS

R7-1D

R&S
R4-D3-1b
RMV

R&R

W11-15
W16-9p

W14-2

R&R
PRIVATE
SIGN

R&R DEPOT
PARKING SIGN

2' DWLEx
w/ 6' GAPS

R7-1D

W3-1

LAROCHELLE WAY

HOOK ST

PCC +60.36

PT +09.92

4"SWL

18'(TYP)

R3-17
R3-17bp

MEETING EXISTING PAVEMENT MARKINGS

W2-6
W16-17p

"2 HOUR PARKING"

CONSTRUCTION NOTES

1. ALL PROPOSED PAVEMENT MARKINGS IN PARKING LOTS SHALL BE PAINT.
2. ALL PROPOSED PAVEMENT MARKINGS ON ROADWAYS SHALL BE REFLECTORIZED THERMOPLASTIC UNLESS OTHERWISE NOTED.
3. WHERE EXISTING PAVEMENT MARKINGS ARE DIFFERENT THAN PROPOSED MARKINGS SHOWN OR ARE PROPOSED TO BE REFRESHED, REMOVE BY AN APPROVED METHOD.
4. ALL EXISTING SIGNS WITHIN PROJECT LIMITS SHALL BE ADDRESSED AS NOTED:
   RET=RETAIN
   R&R=REMOVE AND RESET
   R&S=REMOVE AND STACK

CONTINUED ON SHEET NO. 33

CONTINUED ON SHEET NO. 32

0 20 50 100
SCALE: 1" = 20'

SOUTHBRIDGE
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/HSI-0033(042)X	32	91
PROJECT FILE NO.	608778		

SIGNING & PAVEMENT MARKING PLANS

CONSTRUCTION NOTES

1. ALL PROPOSED PAVEMENT MARKINGS IN PARKING LOTS SHALL BE PAINT.
2. ALL PROPOSED PAVEMENT MARKINGS ON ROADWAYS SHALL BE REFLECTORIZED THERMOPLASTIC UNLESS OTHERWISE NOTED.
3. WHERE EXISTING PAVEMENT MARKINGS ARE DIFFERENT THAN PROPOSED MARKINGS SHOWN OR ARE PROPOSED TO BE REFRESHED, REMOVE BY AN APPROVED METHOD.
4. ALL EXISTING SIGNS WITHIN PROJECT LIMITS SHALL BE ADDRESSED AS NOTED:
   RET=RETAIN
   R&R=REMOVE AND RESET
   R&S=REMOVE AND STACK

LIMIT OF WORK
STA 507+50.00
N: 2853807.7656
E: 511797.6554

MEET EXIST MARKINGS

BIKE LANE MARKING (TYP)
(SEE DETAIL ON SHEET 57)

WRONG-WAY DIRECTIONAL ARROW (TYP)
(SEE DETAIL ON SHEET 57)

RR SIGNS AND GATES
REM BY OTHERS

W11-15 (QTY 2)
W16-7p(L)
W16-7p(R)

R6-1L (POS)
R5-1

ON-STREET PARKING (TYP)
(SEE DETAIL ON SHEET 57)

R7-1D

W11-15
W16-9p

RET
R12-5

2' DWLEx W/ 6' GAPS
R3-17
R3-17bp
R3-1

W11-2
W16-7p(L)

R3-17

10'-CW

TWO MA-D3-1e (POS)
SEE ASSEMBLY A ON
SIGN MOUNTING DETAIL
ON SHEET 35

PC +90.58

R6-1L (POS)
R5-1

2' DWL W 6' GAPS (TYP)

LIMIT OF PAVING
STA 506+95.00

R1-2
R3-2

R1-1 R&S

R6-1L (POS)
R6-1R (POS)
R5-1
R3-2

R&S
R1-1
MA-D3-1b

HOOK STREET

RAISED 12' CROSS WALK
(TYP) (SEE DETAIL ON
SHEET 58)

R6-1L (POS)
R6-1R (POS)
R5-1
OM4-1

R6-2L (POS)
R6-2R (POS)
TWO MA-D3-1b (POS)
SEE ASSEMBLY A ON SIGN
MOUNTING DETAIL ON SHEET 35

ACCESSIBLE PARKING STALL (TYP)
(SEE DETAIL ON SHEET 57)

RET PRIVATE SIGNS

R7-8
R7-8p

R&S
R7-8

W14-2

R&R DEPOT
PARKING SIGN

R1-1
2 MA-D3-1b
(POS)

R&R

PRIVATE SIGN
R&R (BO)

PRIVATE SIGN
R&R (BO)

W2-6
W16-17p

8'-CW

R3-17
R3-17bp

PRIVATE SIGN
R&R (BO)

CENTRAL STREET

4" SWL AT 45°
4" O.C. (TYP)

R7-1D

R3-17

4"SWL
21'
9'
60°

R&S
R7-1

DBL 4"SWL

W11-2
W16-7p(L)

FOSTER STREET

R&S
R1-1

R&S
R4-1

R&S
R1-2

PROJECT END
STA 405+50.00
N: 2853466.0513
E: 511871.2105

TWO MA-D3-1c
SEE ASSEMBLY A ON SIGN
MOUNTING DETAIL ON SHEET 35

R1-1 R&S
MA-D3-1c

SP-1

R1-1

RET
R7-1R

RET
R7-1L

NORTH STREET

TWO MA-D3-1e
SEE ASSEMBLY A ON SIGN
MOUNTING DETAIL ON SHEET 35

"TRACTOR TRAILERS
PROHIBITED BEYOND
THIS POINT"

RET
R12-5

0 20 50 100
SCALE: 1" = 20'

CONTINUED ON SHEET NO. 31
CONTINUED ON SHEET NO. 33
CONTINUED ON SHEET NO. 33

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SOUTHBRIDGE
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/HSI-0033(042)X	33	91
PROJECT FILE NO.	608778		

SIGNING & PAVEMENT MARKING PLANS

11672.02_HD(SPM).DWG Plotted on 28-May-2025 3:58 PM

N

CONTINUED ON SHEET NO. 31

CONTINUED ON SHEET NO. 32

CONTINUED ON SHEET NO. 32

LAROCHELLE WAY

CENTRAL STREET

NORTH STREET

FOSTER STREET

R3-8R

R7-1d

R7-1D

R3-17
R3-17bp

R9-5

W2-6
W16-17p

PRIVATE SIGN
R&R (BO)

BIKE LANE MARKING (TYP)
(SEE DETAIL ON SHEET 57)

R&S
R7-8L

R&S
R7-8

R&S
R3-17

R&S
R7-8

R&S
R7-1

R&S
R7-10S

R&S
R1-1
MA-D3-1a

R&S
R1-1
MA-D3-1c

R&R
R7-8

R&R (BO)
PRIVATE SIGN

R&R (BO)
DEPOT PARKING PYLON SIGN

RET
PRIVATE PYLON SIGN

RET
R7-1R

RET
R7-1L

8'-CW

10'-CW

12'-CW

SWL

DBYL

SL

2' DWLEx W/6' GAPS

SWL-85'

4"SWL

18'(TYP)

2'

9'

302

303

PT +09.92

503

504

502

501

405

406

PC +09.95

PT +87.29

PC +07.03

PT +76.25

PT +56.31

MA-R10-12A

MA-D3-1d (POS)

MA-D3-1g (POS)

MA-D3-1c (2)

R7-1D

R1-1

SP-1

RET. WALL

CONC. SWLK.

CONC. RAMP

ASPHALT PARKING LOT

GRASS

GRAVEL

RAILROAD TRACKS

TRAILER

REGISTRY OF MOTOR VEHICLES

DEBRIS

RAILROAD SIGNS AND GATES REM BY OTHERS

12" SYCHL AT 10' O.C. 1:1

TWO MA-D3-1e
SEE ASSEMBLY A ON SIGN
MOUNTING DETAIL ON SHEET 35

TWO MA-D3-1a (POS)
SEE ASSEMBLY C ON
SIGN MOUNTING DETAIL
ON SHEET 35

RR SIGNS AND GATES
REM BY OTHERS

W11-15 (QTY 2)
W16-7p(L)
W16-7p(R)

PROP BICYCLE LEGEND (TYP)
SEE DETAIL ON SHEET 57

PROP RAISED CROSSWALK MARKING (TYP)
SEE DETAIL ON SHEET 58

PROP IMPROVEMENTS (BO)

STOP

RAILROAD SIGNS
AND GATES REM
BY OTHERS

PROJECT END
STA 405+50.00
N: 2853466.0513
E: 511871.2105

LIMIT OF PAVING
STA 500+95.00

LIMIT OF PAVING
STA 401+64.00
N: 2853189.5453
E: 511722.4806

MEET EXIST MARKINGS

0 20 50 100
SCALE: 1" = 20'

CONSTRUCTION NOTES

1. ALL PROPOSED PAVEMENT MARKINGS IN PARKING LOTS SHALL BE PAINT.
2. ALL PROPOSED PAVEMENT MARKINGS ON ROADWAYS SHALL BE REFLECTORIZED THERMOPLASTIC UNLESS OTHERWISE NOTED.
3. WHERE EXISTING PAVEMENT MARKINGS ARE DIFFERENT THAN PROPOSED MARKINGS SHOWN OR ARE PROPOSED TO BE REFRESHED, REMOVE BY AN APPROVED METHOD.
4. ALL EXISTING SIGNS WITHIN PROJECT LIMITS SHALL BE ADDRESSED AS NOTED:
   RET=RETAIN
   R&R=REMOVE AND RESET
   R&S=REMOVE AND STACK
5. OVERHEAD SIGNS ON MAST ARMS SHALL BE RIGID-MOUNTED.

SOUTHBRIDGE
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/HSI-0033(042)X	34	91
PROJECT FILE NO.	608778		

TRAFFIC SIGN SUMMARY SHEET

Plotted on 28-May-2025 3:58 PM
11672.02_HD(SPM).DWG

TRAFFIC SIGN SUMMARY

IDENTIFI–CATION NUMBER	SIZE OF SIGN WIDTH	SIZE OF SIGN HEIGHT	TEXT	TEXT DIMENSIONS (INCHES) LETTER HEIGHT	TEXT DIMENSIONS (INCHES) VERTICAL SPACING	TEXT DIMENSIONS (INCHES) ARROW RTE. MKR.	NUMBER OF SIGNS REQUIRED	COLOR BACK–GROUND	COLOR LEGEND	COLOR BORDER	POST SIZE AND NUMBER REQUIRED	UNIT AREA (S.F.)	AREA IN SQUARE FEET
R1-1	30"	30"		SEE FHWA "STANDARD HIGHWAY SIGNS, 2004 EDITION"; AS AMENDED			3	RED	WHITE	WHITE	3 P5-1	6.25	18.75
R1-2	36"X36"X36"						4	WHITE	RED	RED	4 P5-1	3.90	15.60
R3-1	24"	24"					1	WHITE	RED/ BLACK	BLACK	1 P5-1	4.00	4.00
R3-2	24"	24"					3	WHITE	RED/ BLACK	BLACK	1 P5-1 2 MTD W/ R6-1L(POS)	4.00	12.00
R3-8R	30"	30"					1	WHITE	BLACK	BLACK	1 P5-1	6.25	6.25
R3-17	30"	24"					7	BLACK --- WHITE	WHITE --- BLACK	WHITE --- BLACK	7 P5-1	5.00	35.00
R3-17bp	30"	12"					3	WHITE	BLACK	BLACK	3 MTD W/ R3-17	2.50	7.50
R5-1	30"	30"					4	WHITE	RED	--	2 P5-1 2 MTD W/ R6-1L(POS)	6.25	25.00
R6-1L (POS)	36"	12"					5	WHITE	BLACK	BLACK	5 P5-1	3.00	15.00
R6-1R (POS)	36"	12"					2	WHITE	BLACK	BLACK	2 MTD W/ R6-1L(POS)	3.00	6.00
R6-2L (POS)	24"	30"					1	WHITE	BLACK	BLACK	1 P5-1	5.00	5.00
R6-2R (POS)	24"	30"					3	WHITE	BLACK	BLACK	2 P5-1 1 MTD W/ R6-2L	5.00	15.00
R6-5p	30"	30"					3	WHITE	BLACK	BLACK	3 MTD W/ R1-2	6.25	18.75
R7-1D	12"	18"					15	WHITE	RED	RED	15 P5-1	1.50	22.50
R7-1L	12"	18"					1	WHITE	RED	RED	1 P5-1	1.50	1.50
R7-1R	12"	18"					1	WHITE	RED	RED	1 P5-1	1.50	1.50

TRAFFIC SIGN SUMMARY (CONTINUED)

IDENTIFI–CATION NUMBER	SIZE OF SIGN WIDTH	SIZE OF SIGN HEIGHT	TEXT	TEXT DIMENSIONS (INCHES) LETTER HEIGHT	TEXT DIMENSIONS (INCHES) VERTICAL SPACING	TEXT DIMENSIONS (INCHES) ARROW RTE. MKR.	NUMBER OF SIGNS REQUIRED	COLOR BACK–GROUND	COLOR LEGEND	COLOR BORDER	POST SIZE AND NUMBER REQUIRED	UNIT AREA (S.F.)	AREA IN SQUARE FEET
R7-8	12"	18"		SEE FHWA "STANDARD HIGHWAY SIGNS, 2004 EDITION"; AS AMENDED			4	WHITE	GREEN WHITE BLUE	GREEN	4 P5-1	1.50	6.00
R7-8p	12"	6"					4	WHITE	GREEN	GREEN	4 MTD W/ R7-8	0.50	2.00
R9-5	12"	18"					2	WHITE	BLACK	BLACK	2 MTD ON TS POST	1.50	1.50
R10-3e(L)	9"	15"					7	WHITE	WHITE/ BLACK/ ORANGE	BLACK	7 MTD ON TS POST	PAID UNDER ITEM 815.1	
R10-3e(R)	9"	15"					3	WHITE	WHITE/ BLACK ORANGE	BLACK	3 MTD ON TS POST	PAID UNDER ITEM 815.1	
W2-6	30"	30"					2	YELLOW	BLACK	BLACK	2 P5-1	6.25	12.5
W3-1	30"	30"					1	YELLOW	BLACK/ RED	BLACK	1 P5-1	6.25	6.25
W11-2	30"	30"					8	FLUOR-ESCENT YELLOW/ GREEN	BLACK	BLACK	6 P5-1	6.25	37.5
W11-15	30"	30"					10	FLUOR-ESCENT YELLOW/ GREEN	BLACK	BLACK	6 P5-1 4 MTD W/ W11-5	6.25	62.5
W14-2	30"	30"					1	YELLOW	BLACK	BLACK	1 P5-1	6.25	6.25
W16-7p(L)	24"	12"					12	FLUOR-ESCENT YELLOW/ GREEN	BLACK	BLACK	10 MTD 6 W/ W11-2 4 W/ W11-15	2.00	20.00
W16-7p(R)	24"	12"					4	FLUOR-ESCENT YELLOW/ GREEN	BLACK	BLACK	4 MTD W/ W11-15	2.00	8.00
W16-9p	24"	12"					2	FLUOR-ESCENT YELLOW/ GREEN	BLACK	BLACK	2 MTD W/ W11-15	2.00	4.00

(CONTINUED ON NEXT SHEET)

SOUTHBRIDGE
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/HSI-0033(042)X	35	91
PROJECT FILE NO.	608778		

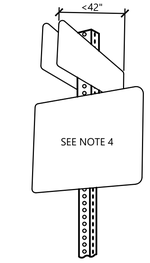
TRAFFIC SIGN SUMMARY SHEET

11672.02_HD(SPM).DWG Plotted on 28-May-2025 3:58 PM

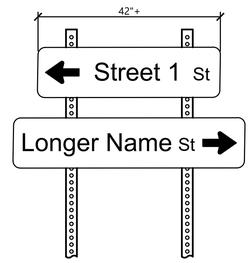
TRAFFIC SIGN SUMMARY (CONTINUED)

IDENTIFICATION NUMBER	SIZE OF SIGN WIDTH	SIZE OF SIGN HEIGHT	TEXT	TEXT DIMENSIONS (INCHES) LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.	NUMBER OF SIGNS REQUIRED	COLOR BACKGROUND	COLOR LEGEND	COLOR BORDER	POST SIZE AND NUMBER REQUIRED	UNIT AREA (S.F.)	AREA IN SQUARE FEET
W16-17p	24"	12"	ROUNDABOUT	SEE FHWA "STANDARD HIGHWAY SIGNS, 2004 EDITION"; AS AMENDED			3	YELLOW	BLACK	BLACK	3 MTD W/ W2-6	2.00	6.00
OM4-1	24"	24"	SIGN SHALL BE A MINIMUM OF 4-FEET ABOVE GRADE				1	RED CLUSTER	RED	- - -	1 MTD W/ R6-1L(POS)	4.00	4.00
MA-R10-12A	30"	36"	LEFT TURN YIELD ON FLASHING	AS PER MASSDOT STANDARDS			1	WHITE/ BLACK	BLACK/ YELLOW	BLACK	1 MTD ON MAST ARM	7.50	7.50
SP-1	24"	24"	NO THRU TRAFFIC	4C 4C 4B	3 3 3 3	N/A	1	YELLOW	BLACK	BLACK	1 P5-1	4.00	4.00
MA-D3-1a (POS)	48"	12"	Larochelle Way	6" / 4" C @85%	2.75" 3.25"	N/A	4	GREEN	WHITE	WHITE	4P5-2 (ASSEMBLY "C")	PAID UNDER ITEM 874	
MA-D3-1b (POS)	30"	12"	Hook St	6" / 4" D	3" 3"	N/A	4	GREEN	WHITE	WHITE	2 MTD W/R1-1 2MTD W/R6-2L (ASSEMBLY"A")	PAID UNDER ITEM 874	
MA-D3-1c (POS)	36"	12"	North St	6" / 4" D	3" 3"	N/A	2	GREEN	WHITE	WHITE	1 P5-1 (ASSEMBLY "A")	PAID UNDER ITEM 874	
MA-D3-1d (POS)	54"	18"	Central St	8" / 5.33" D	5" 5"	N/A	4	GREEN	WHITE	WHITE	4 MTD ON MAST ARM	PAID UNDER ITEM 874	
MA-D3-1e (POS)	36"	12"	Foster St	6" / 4" D	3" 3"	N/A	2	GREEN	WHITE	WHITE	1 P5-1 (ASSEMBLY "A")	PAID UNDER ITEM 874	
MA-D3-1f (POS)	42"	12"	Hamilton St	6" / 4" C	3" 3"	N/A	4	GREEN	WHITE	WHITE	1 P5-1 (ASSEMBLY "C")	PAID UNDER ITEM 874	
MA-D3-1g (POS)	72"	18"	Larochelle Way	8" / 5.33" D	5" 5"	N/A	4	GREEN	WHITE	WHITE	4 MTD ON MAST ARM	PAID UNDER ITEM 874	

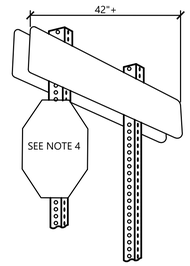
NOTES:
1. RETROREFLECTIVE SHEETING CONFORMING TO SECTION M9.30.0 OF THE 2022 MASSDOT STANDARD SPECIFICATIONS SHALL BE USED FOR ALL SIGNS.
2. SEE FHWA "STANDARD HIGHWAY SIGNS, 2004 EDITION" AND 2012 SUPPLEMENT; THE 1990 MASSDPW STANDARD DRAWINGS FOR SIGNS AND SUPPORTS; THE 2009 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR MOUNTING REQUIREMENTS; AND THE MASSDOT STANDARD SIGNS, LATEST EDITION.
3. ALL SIGNS SHOWN GRAPHICALLY FOR INFORMATION ONLY. SIGN VENDOR SHALL FABRICATE ALL SIGNS IN ACCORDANCE WITH THE APPLICABLE STANDARDS.
4. POS = PRINTED ONE SIDE
5. PBS = PAINTED BOTH SIDES



ASSEMBLY TYPE "A"



ASSEMBLY TYPE "B"



ASSEMBLY TYPE "C"

NOTES:
1. SIGN PANELS SUCH AS R6-1 (ONE-WAY) AND STREET NAME SIGNS LESS THAN 42" TO BE MOUNTED IN PAIRS TO A SINGLE POST.
2. SIGN PANELS 42" OR LONGER TO BE MOUNTED ON TWO POSTS.
3. SIGNS TO BE MOUNTED 7' MIN ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED.
4. SHAPE OF SECONDARY SIGN NOT INDICATIVE OF TYPE OF SIGN TO BE PAIRED WITH ASSEMBLY. SEE PLANS FOR ADDITIONAL SIGNS REQUIRED.

MULTIPLE SIGN MOUNTING DETAIL

SCALE: N.T.S. DWG: PM-36 DATE: OCTOBER 2021

SOUTHBRIDGE
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/HSI-0033(042)X	36	91
PROJECT FILE NO.	608778		

TRAFFIC SIGNAL PLAN

CONSTRUCTION NOTES

1. SEE SHEET 37 FOR TRAFFIC SIGNAL DATA
2. PULL BOXES AND HANDHOLES SHALL BE ADJACENT TO CURB UNLESS OTHERWISE NOTED AND SHALL NOT BE LOCATED IN PEDESTRIAN CURB RAMPS.
3. THE TOP OF ALL MAST ARM FOUNDATIONS IN SIDEWALK AREAS SHALL BE LOCATED FLUSH WITH FINISH GRADE.
4. THE TOP OF ALL MAST ARM FOUNDATIONS IN GRASSY AREAS SHALL BE LOCATED 3"± ABOVE FINISHED GRADE.
5. TS POST/POLE, WITH PEDESTRIAN PUSH BUTTON, NOT LOCATED WITHIN A PAVED SURFACE SHALL BE POSITIONED SO AS TO PROVIDE A 10" MAX CLEAR REACH ZONE BETWEEN THE PEDESTRIAN PUSH BUTTON AND THE PAVED SURFACE PER 521 CMR AND AS SHOWN IN THE CONSTRUCTION DETAILS.
14. THE PROPOSED LOCATION OF THE VIDEO DETECTION SYSTEM IS FOR ILLUSTRATIVE PURPOSES ONLY. THE CONTRACTOR SHALL INSTALL THIS DEVICE(S) IN THE OPTIMAL LOCATION(S) PER MANUFACTURER'S RECOMMENDATIONS AND SITE-SPECIFIC CONSTRAINTS.
15. CROSSWALKS ARE SHOWN SCHEMATICALLY FOR CLARITY. SEE SHEET 33 FOR SIGNING AND STRIPING PLANS.
16. AN ADA COMPLIANT CONNECTION BETWEEN THE RAIL TRAIL SEGMENTS MUST BE MAINTAINED THROUGHOUT THE PROJECT.

PROP POWER SOURCE

PROP TS POLE & FOUNDATION
W/ 25' MAST ARM
STA 304+11.5, 31.0' LT

PROP 8' TS POST AND FOUNDATION
W/ PED SIGNAL HEAD
W/ APS PED PUSH BUTTON, LEFT
W/ R10-3e(L) & SADDLE
STA 303+98.5, 25.5' LT

PROP SERVICE CONNECTION

PROP ATC CONTROLLER
IN A TYPE 6 BASE-MOUNTED NEMA CABINET
W/ FOUNDATION & CONCRETE PAD
STA 303+81.0, 23.0' LT

PROP 8' TS POST AND FOUNDATION
W/ PED SIGNAL HEAD
W/ APS PED PUSH BUTTON, RIGHT
W/ R10-3e(R) & SADDLE
STA 304+00.0, 33.5' RT

PROP TS POLE & FOUNDATION
W/ 25' MAST ARM
STA 304+27.0, 45.0' RT

MA-D3-1g (POS)

PROP 8' TS POST AND FOUNDATION
W/ PED SIGNAL HEAD
W/ APS PED PUSH BUTTON, LEFT
W/ R10-3e(L) & SADDLE
STA 304+31.5, 54.5' RT

PROP PRE-EMPTION STROBE (TYP)

PROP PRE-EMPTION DETECTOR (TYP)

PROP 8' TS POST AND FOUNDATION
W/ PED SIGNAL HEAD
W/ APS PED PUSH BUTTON, RIGHT
W/ R10-3e(R) & SADDLE
STA 304+23.0, 36.5' LT

PROP 8' TS POST AND FOUNDATION
W/ PED SIGNAL HEAD
W/ APS PED PUSH BUTTON, LEFT
W/ R10-3e(L) & SADDLE
STA 304+24.5, 36.0' LT

PROP DIGITAL VIDEO DETECTION SYSTEM
W/EXTENSION BRACKET(S)

PROP 8' TS POST AND FOUNDATION
W/ PED SIGNAL HEAD
W/ APS PED PUSH BUTTON, LEFT
W/ R10-3e(L) & SADDLE
STA 304+73.5, 60.0' LT

MA-D3-1g (POS)

PROP TS POLE & FOUNDATION
W/ 30' MAST ARM
STA 304+86.0, 33.5' LT

PROP 8' TS POST AND FOUNDATION
W/ PED SIGNAL HEAD
W/ APS PED PUSH BUTTON, RIGHT
W/ R10-3e(R) & SADDLE
STA 305+02.5, 20.5' LT

FOR CROSSWALK
PATTERN SEE SHEET 57

MA-R10-12A

MA-D3-1d (POS)

MA-D3-1d (POS)

PROP 8' TS POST AND FOUNDATION
W/ PED SIGNAL HEAD
W/ APS PED PUSH BUTTON, LEFT
W/ R10-3e(L) & SADDLE
STA 305+08.0, 29.0' RT

PROP TS POLE & FOUNDATION
W/ 25' MAST ARM
W/ PED SIGNAL HEAD
W/ APS PED PUSH BUTTON, LEFT
W/ R10-3e(L) & SADDLE
STA 304+94.5, 25.0' RT

PROP 8' TS POST AND FOUNDATION
W/ PED SIGNAL HEAD
W/ APS PED PUSH BUTTON, LEFT
W/ R10-3e(L) & SADDLE
STA 304+85.0, 46.0' RT

CENTRAL STREET

FOSTER STREET

LAROCHELLE WAY

LAROCHELLE WAY

0 20 50 100
SCALE: 1" = 20'

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ø1	ø2	ø3	ø4	ø5	ø6	ø7	ø8	ø9 (PED)	
NOT USED	PERM	NOT USED	PERM	NOT USED	PERM	NOT USED	PERM		

SEQUENCE AND TIMING FOR FULLY ACTUATED CONTROL (ISOLATED)

APPROACH	DIRECTION	HOUSING	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	FLASH
LAROCHELLE WAY	EB	A				←R–	←R–	←R–				←FY–	←Y–	←R–				←R–	←R–	←R–				←R–	←R–	←R–	←R–	←R–	←R–	←FR–
LAROCHELLE WAY	EB	B,C				R	R	R				G	Y	R				R	R	R				R	R	R	R	R	R	FR
LAROCHELLE WAY	WB	D,E				R	R	R				R	R	R				R	R	R				G	Y	R	R	R	R	FR
CENTRAL STREET	NB	H,J				G	Y	R				R	R	R				R	R	R				R	R	R	R	R	R	FY
CENTRAL STREET	SB	F,G				R	R	R				R	R	R				G	Y	R				R	R	R	R	R	R	FY
PEDESTRIAN X–ING	NB–SB	P1–P2				DW	DW	DW				DW	DW	DW				DW	DW	DW				DW	DW	DW	W/FDW	DW	DW	OUT
PEDESTRIAN X–ING	NB–SB	P3–P4				DW	DW	DW				DW	DW	DW				DW	DW	DW				DW	DW	DW	W/FDW	DW	DW	OUT
PEDESTRIAN X–ING	EB–WB	P5–P6				DW	DW	DW				DW	DW	DW				DW	DW	DW				DW	DW	DW	W/FDW	DW	DW	OUT
PEDESTRIAN X–ING	EB–WB	P7–P8				DW	DW	DW				DW	DW	DW				DW	DW	DW				DW	DW	DW	W/FDW	DW	DW	OUT
SHARED–USE PATH X–ING	NW–SE	P9–P10				DW	DW	DW				DW	DW	DW				DW	DW	DW				DW	DW	DW	W/FDW	DW	DW	OUT
TIMING IN SECONDS																														
MINIMUM GREEN (INITIAL)						10						6						10						6						CONFLICT FLASH OPERATION ONLY*
PASSAGE TIME (VEHICLE)						3						3						3						3						
MAXIMUM 1						30						25						30						25						
MAXIMUM 2						30						25						30						25						
DYNAMIC MAXIMUM 3						50						45						50						45						
DYNAMIC STEP						5						5						5						5						
YELLOW CLEARANCE							3.5						3.5						3.5						3.5			3		
RED CLEARANCE								3.5						3.5						3.5						3.5			1	
PEDESTRIAN WALK																											7			
PEDESTRIAN CLEARANCE																											18			
DETECTOR MEMORY						NON–LOCK						NON–LOCK						NON–LOCK						NON–LOCK			LOCK			
RECALL						MIN						OFF						MIN						OFF			OFF			

NOTES:
1. AUTOMATIC FLASHING OPERATION PER 2009 M.U.T.C.D., AS AMENDED.
2. * UPON PEDESTRIAN PUSH BUTTON ACTUATION
3. PERM = PERMISSIVE
4. DUAL ENTRY ON ø4 & ø8
5. NO SIMULTANEOUS GAP–OUT ON ø2 & ø6
6. MAXIMUM 1 = NORMAL OPERATION
7. MAXIMUM 2 = NOT USED
8. DYNAMIC MAXIMUM 3 = MON–FRI, 6:30–9AM, 2:30–6PM
9. STOP AND GO OPERATION FOR 24 HOURS PER DAY. FLASHING OPERATION FOR EMERGENCY ONLY.
10. DURING PEDESTRIAN INTERVAL, FDW THROUGH YELLOW OPERATION SHALL NOT BE IN EFFECT.

SEQUENCE & TIMING NOTES:

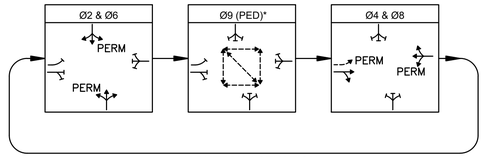
1. IF THE ASSIGNED RIGHT OF WAY FOR ANY TRAFFIC MOVEMENT IS TO REMAIN IN EFFECT DURING THE NEXT CALLED PHASE, THE SIGNAL INDICATIONS FOR THAT TRAFFIC MOVEMENT WILL NOT CHANGE DURING THE CLEARANCE INTERVAL.
2. THE RIGHT OF WAY MAY BE ASSIGNED TO ANY PHASE OR ANY COMBINATION OF NON-CONFLICTING PHASES.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

SOUTHBRIDGE
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/HSI-0033(042)X	37	91
PROJECT FILE NO.	608778		

TRAFFIC SIGNAL PLAN

PREFERENTIAL PHASE SEQUENCE



* UPON PEDESTRIAN PUSH BUTTON ACTUATION

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

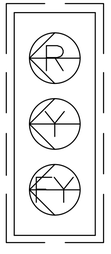
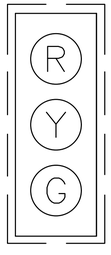
PRE-EMPTION PHASING & PRIORITY

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

APS WALK INDICATION

CROSSING	PHASE	MESSAGE
ALL	Ø9 (PED)	PERCUSSIVE TONE

SIGNAL HEAD DATA

A	B,C,D,E,F,G,H,J	P1-P10
		W/COUNTDOWN TIMER
ALL 12" LENS		ALL 16" HOUSINGS

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

MAST ARM FOUNDATION DATA

BORING #	ARM LENGTH	MAST ARM LOCATION	SOIL TYPE	FOUNDATION DIAMETER	FOUNDATION DEPTH	VERTICAL BARS	TIE BARS
B-1	25'	303+98.5, 25.5' LT	DRY SAND (DENSE)	3'-6"	7'-6" SEE NOTE "2"	18 - #8	#5 @ 12"
B-2	25'	304+27.0, 45.0' RT	DRY SAND (DENSE)	3'-6"	7'-6"	18 - #8	#5 @ 12"
B-3	30'	304+86.0, 33.5' LT	WET SAND (DENSE)	3'-6"	9'-0"	18 - #8	#5 @ 12"
B-4	25'	304+93.0, 26.0' RT	WET SAND (DENSE)	3'-6"	9'-0"	18 - #8	#5 @ 12"

NOTES:
1. SEE SPECIAL PROVISION FOR ADDITIONAL INFORMATION.
2. MAY REQUIRE A MINIMUM 6-INCH ROCK SOCKET TO MEET THE REQUIRED FOUNDATION DEPTH.

VIDEO DETECTION DATA

DETECTION ZONE	APPROACH/LANE	DELAY /EXT	CALL/EXTEND PHASE
1	CENTRAL STREET NB LEFT-THRU-RIGHT	0	Ø2
2	LAROCHELLE WAY EB THRU-RIGHT	0	Ø4
3	LAROCHELLE WAY EB LEFT	0	Ø4
4	CENTRAL STREET SB LEFT-THRU-RIGHT	0	Ø6
5	LAROCHELLE WAY WB LEFT-THRU-RIGHT	0	Ø8

NOTES:
1. DELAY AND EXTENSION TIMINGS SHALL BE PROGRAMMED IN THE CONTROLLER ONLY.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SETTING PROPOSED DETECTION ZONES AS SHOWN ON THE PLANS, AND ADJUSTING/ READJUSTING DETECTION ZONES IN THE PRESENCE OF THE ENGINEER.

LIST OF MAJOR ITEMS REQUIRED

LAROCHELLE WAY AT CENTRAL STREET

PAY ITEM	QUANTITY	DESCRIPTION
815.1	1	ATC CONTROLLER IN A TYPE 6 BASE MOUNTED NEMA CABINET INCLUDING FOUNDATION
	3	TS 25' MAST ARM TYPE 2, STEEL, INCL. FOUNDATION
	1	TS 30' MAST ARM TYPE 2, STEEL, INCL. FOUNDATION
	9	TS POST 8' STANDARD INCL. FOUNDATION
	8	SIGNAL HEAD, 3-SECTION, 12" LENSES
	1	SIGNAL HEAD, 3-SECTION, 12" LENSES, WITH FLASHING YELLOW ARROW
	10	PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER
	7	PEDESTRIAN PUSH BUTTON W/R10-3e(L) AND SADDLE
	3	PEDESTRIAN PUSH BUTTON W/R10-3e(R) AND SADDLE
	1	DIGITAL VIDEO DETECTION SYSTEM, INCL. CAMERA(S), CABLES, INTERFACE BOARD, AND MOUNTING BRACKET(S)
	4	EMERGENCY PRE-EMPTION OPTICAL DETECTOR & DETECTOR CABLE
	1	EMERGENCY PRE-EMPTION 4 CHANNEL PHASE SELECTOR
	1	EMERGENCY PRE-EMPTION SYSTEM CHASSIS
	2	EMERGENCY PRE-EMPTION STROBE (WHITE LENS)
804.3	700' +/-	3 INCH ELECTRICAL CONDUIT TYPE NM - PLASTIC (UL)
811.22	6	13"x24" ELECTRIC HANDHOLE - SD2.022
811.31	2	PULL BOX 12x12 INCHES - SD2.031
813.801	1	SERVICE CONNECTION (OVERHEAD)

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

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GENERAL NOTES

1. ALL CONSTRUCTION SIGNING, TEMPORARY TRAFFIC CONTROL DEVICES, AND ROADSIDE ELEMENTS SHALL CONFORM WITH THE 2009 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AS AMENDED, THE MASSDOT STANDARD DETAILS AND DRAWINGS FOR THE DEVELOPMENT OF TEMPORARY TRAFFIC CONTROL PLANS, THE LATEST REVISIONS OF THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, (AASHTO) ROADSIDE DESIGN GUIDE, AASHTO POLICY ON GEOMETRIC DESIGN OF HIGHWAYS AND STREETS, AND NATIONAL COOPERATIVE HIGHWAY RESEARCH PROGRAM (NCHRP) REPORT 350 OR THE AASHTO MANUAL FOR ASSESSING SAFETY HARDWARE (MASH).
2. ALL WORK THAT REQUIRES BI-DIRECTIONAL ALTERNATING TRAFFIC (PAVEMENT RECLAMATION, PAVING OPERATIONS, ETC.) SHALL BE CONDUCTED BETWEEN 9:00 A.M. TO 3:00 P.M. UNLESS OTHERWISE APPROVED BY THE OWNER. WORK SHALL NOT AFFECT TRAFFIC PATTERNS DURING PEAK TRAFFIC PERIODS. PEAK TRAFFIC PERIODS ARE DEFINED AS MONDAY THROUGH FRIDAY 6:00 AM TO 9:00 AM AND 3:00 PM TO 7:00 PM.
3. NO WORK SHALL OCCUR WITHIN THE PUBLIC WAY ON STATE RECOGNIZED HOLIDAYS UNLESS OTHERWISE APPROVED BY THE ENGINEER.
4. ALL TEMPORARY PEDESTRIAN PATHWAYS SHALL COMPLY FULLY WITH ALL REQUIREMENTS OF THE MUTCD AND ALL APPLICABLE MASSACHUSETTS ARCHITECTURAL ACCESS BOARD (MAAB) AND AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG) REQUIREMENTS.
5. ALL DRUMS OUTSIDE TAPERS SHALL BE SET AT 20' ON CENTER MAX. UNLESS OTHERWISE NOTED OR ADJUSTED BY THE ENGINEER.
6. ALL DRUMS SHALL BE APPROXIMATELY PLACED AND MOVED AS NECESSARY TO MAINTAIN ADEQUATE ABUTTER ACCESS AT ALL TIMES. WORK MAY REQUIRE ADDITIONAL SIGNS, DRUMS AND OTHER TRAFFIC CONTROL DEVICES, GRADING AND TEMPORARY PAVEMENT FOR PASSAGE OF PEDESTRIAN, VEHICULAR AND EMERGENCY TRAFFIC THROUGH THE WORK AREAS, BOTH DURING AND AFTER WORKING HOURS, TO MAINTAIN SUCH ACCESS.
7. THE CONTRACTOR SHALL NOTIFY EACH ABUTTER AT LEAST 48 HOURS IN ADVANCE OF THE START OF ANY WORK THAT WILL REQUIRE THE TEMPORARY CLOSURE OR RESTRICTION OF ACCESS.
8. FOR RESTORATIVE WORK ON LOCAL ROADWAYS, A MINIMUM OF ONE LANE OF TRAFFIC IN EACH DIRECTION ON TWO WAY STREETS SHALL BE MAINTAINED AT ALL TIMES, EXCEPT THAT DURING WORKING HOURS, TRAFFIC MAY BE REDUCED TO ONE LANE UNDER POLICE CONTROL FOR SHORT TIME PERIODS WHEN REQUIRED FOR THE WORK, AS SHOWN UNLESS OTHERWISE APPROVED BY THE ENGINEER.
9. FOR DROP-OFFS 3" OR LESS WITHIN THE CLEAR ZONE, CONDITION MAY BE MITIGATED WITH W8-9 (LOW SHOULDER) SIGN OR TEMPORARY CHANNELIZATION DEVICES. FOR DROP-OFFS GREATER THAN 3" BUT NO MORE THAN 36", DETERMINE WHETHER IT IS MORE COST EFFECTIVE TO INSTALL BOTH W8-9 SIGN AND TEMPORARY CHANNELIZATION DEVICES IN ACCORDANCE WITH MASSDOT WORK ZONE SAFETY GUIDE OR W8-9 SIGN WITH A 2H:1V (MIN) WEDGE OR TO REMOVE THE HAZARD.
10. CONTRACTOR SHALL STAGE WORK SUCH THAT A DROP-OFF OF NO MORE THAN 3" AT THE END OF EACH WORK DAY EXISTS WITHIN THE CLEAR ZONE AT ANY TIME AND ENSURE DROP-OFF IS MITIGATED WITHOUT BARRIER PER NOTE 9.
11. 11' MINIMUM LANE WIDTHS SHALL BE MAINTAINED UNLESS OTHERWISE NOTED.
12. NON-ESSENTIAL TRAFFIC CONTROL DEVICES AND SIGNS SHALL BE COVERED OR REMOVED DURING NON-WORKING HOURS WHEN NOT IN USE.
13. SIGNS INSTALLED ON PORTABLE STANDS REQUIRE 12 INCH MINIMUM MOUNTING HEIGHT FROM THE ROADWAY SURFACE TO THE BOTTOM OF THE SIGN.
14. SIGNS INSTALLED ON PORTABLE STANDS PLACED AMONG CHANNELIZATION DEVICES REQUIRE A 36 INCH MINIMUM MOUNTING HEIGHT FROM THE ROADWAY SURFACE TO THE BOTTOM OF THE SIGN.
15. SIGNS MOUNTED ON POSTS REQUIRE A MINIMUM 84 INCH MOUNTING HEIGHT FROM THE ROADWAY OR SIDEWALK SURFACE TO THE BOTTOM OF THE SIGN.
16. TEMPORARY MARKINGS SHALL BE WATER-BORNE PAINT OR SURFACE-APPLIED REMOVABLE TAPE, AS APPROVED BY THE ENGINEER.
17. ALL TEMPORARY CROSSWALKS AND STOP LINES SHALL BE 12 INCHES WIDE.
18. ALL TEMPORARY DOUBLE YELLOW LINES (DBYL) SHALL BE 6 INCHES WIDE.
19. THE FIRST 10 DRUMS ON TAPERS SHALL BE REFLECTORIZED DRUMS WITH SEQUENTIAL FLASHING WARNING LIGHTS AND SHALL BE OPERATING, AT A MINIMUM, BETWEEN DUSK AND DAWN WHEN TAPER IS DEPLOYED.
20. REFLECTORIZED CONES SHALL BE A MINIMUM OF 36 INCHES IN HEIGHT.
21. ALL SIGNS SHALL BE MOUNTED ON THEIR OWN NCHRP 350 AND/OR MASH CRASH TESTED SIGN SUPPORTS AND INSTALLED IN ACCORDANCE WITH THE MUTCD. SIGNS SHALL NOT BE MOUNTED TO OR LEANED AGAINST DRUMS OR CONES.
22. CONES MAY BE USED IN LIEU OF DRUMS OUTSIDE OF TAPER AREAS.
23. CONTRACTOR SHALL SECURE WORK AREAS TO PREVENT UNAUTHORIZED ACCESS AT ALL TIMES.
24. THERE IS NO DESIGNATED BICYCLE LANE ON THE ROADWAY WITHIN THE PROJECT LIMITS. BICYCLES ARE EXPECTED TO SHARE THE ROAD WITH GENERAL VEHICULAR TRAFFIC.
25. W21-7 SIGNS SHALL BE INSTALLED IN ADVANCE (100' MIN) OF AREAS WHERE UTILITY CASTINGS HAVE BEEN RAISED IN ADVANCE OF PAVING OPERATIONS OR AS REQUESTED BY THE ENGINEER.
26. W8-15 SIGNS SHALL BE INSTALLED IN ADVANCE (100' MIN) OF PAVEMENT MILLING AREAS OR AS REQUESTED BY THE ENGINEER.
27. MA-W20-7b SIGNS SHALL BE REPLACED BY W20-7 SIGNS WHEN FLAGGERS ARE USED IN LIEU OF POLICE OFFICER DETAILS.
28. W20-1c OR MA-R2-10a SIGNS SHOWN ON ADVANCE SIGN SCHEMATIC MAY BE USED IN LIEU OF THOSE SIGNS SHOWN ON TYPICAL DETAILS ON THE TEMPORARY TRAFFIC CONTROL PLANS IF MINIMUM SIGN SPACING IS MET.
29. NIGHTTIME WORK SHALL REQUIRE PRIOR APPROVAL FROM MASSDOT AND TOWN.
30. ILLUMINATION REQUIRED FOR NIGHTTIME WORK APPROVED BY THE ENGINEER SHALL BE DIFFUSED OR ANTI-GLARE LIGHTING AND IN ACCORDANCE WITH MASSDOT STANDARDS.
31. CONTRACTOR SHALL PROVIDE 4 PORTABLE CHANGE MESSAGE SIGN (PCMS) FOR DURATION OF PROJECT (14 DAYS PRIOR TO THE START OF CONSTRUCTION AND 14 DAYS AFTER THE START OF CONSTRUCTION).
32. CONSTRUCTION CLEAR ZONE SHALL BE IN ACCORDANCE WITH MASSDOT BOSTON TRAFFIC GUIDELINES AS FOLLOWS:
    4' IF POSTED SPEED IS LESS THAN 35 MPH
    8' IF POSTED SPEED IS 35 MPH
33. TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF THREE TRANSVERSELY PLACES RUMBLE STRIPS EVENLY SPACED. SPACING SHALL BE 10 FEET ON CENTER AS DIRECTED BY ENGINEER.
34. ACCESS TO ADJACENT PARKING AREAS MUST BE MAINTAINED AT ALL TIMES.

SEQUENCING NOTES FOR ROUNDABOUT

SEQUENCING ASSUMES UTILITY POLES ARE RELOCATED OUTSIDE OF PROPOSED INTERSECTION LIMITS PRIOR TO CONSTRUCTION.

STAGE 1:
- REMOVE EXISTING ISLAND AND INSTALL TEMPORARY PAVEMENT. USE DRUMS TO FORM TEMP ISLANDS.
- INSTALL DRAINAGE FEATURES TO EXISTING, UTILIZING DAILY SETUPS
- CONSTRUCT TEMPORARY TRENCH DRAINS AS NEEDED

STAGE 2:
- RETAIN EXISTING ISLANDS FROM STAGE 1.
- DELINEATE EXISTING EDGE OF TRAVEL WAY WITH DRUMS
- PERFORM FULL DEPTH WIDENING
- CONSTRUCT LAROCHELLE WAY AND THE NORTHERN SECTION OF HAMILTON STREET TO INTERMEDIATE COURSE OF PAVEMENT ELEVATION, TAPERING BACK TO EXISTING GRADE AT 50:1. ADJUST ANY UTILITIES IN THIS SECTION TO INTERMEDIATE PAVEMENT COURSE.
- DETOURS WILL BE REQUIRED FOR THRU TRAFFIC.
- INSTALL OUTSIDE CURB AND SIDEWALKS USING DAILY SETUPS.

STAGE 3:
- CONSTRUCT THE SOUTHERN SECTION OF HAMILTON STREET TO INTERMEDIATE COURSE OF PAVEMENT ELEVATION, TAPERING BACK TO EXISTING GRADE AT 50:1. ADJUST ANY UTILITIES IN THIS SECTION TO INTERMEDIATE PAVEMENT COURSE.
- DETOURS WILL BE REQUIRED FOR THRU TRAFFIC.
- INSTALL OUTSIDE CURB AND SIDEWALKS USING DAILY SETUPS.

STAGE 4:
- INITIATE ROUNDABOUT PATTERN USING DRUMS, R6-4 SIGNS, FLASHING ARROW BOARDS (RIGHT), AND PORTABLE CHANGEABLE MESSAGE SIGNS AS NEEDED.
- CONSTRUCT MOUNTABLE SPLITTER ISLANDS USING DAILY SETUPS.

STAGE 5:
- CONSTRUCT MOUNTABLE CENTER ISLAND AND TRUCK APRON FROM CENTER OF ROUNDABOUT
- ADJUST UTILITY STRUCTURES TO FINAL GRADE
- PERFORM FINAL PAVING
- INSTALL FINAL PAVEMENT MARKINGS AND SIGNAGE

HOOK STREET/LAROCHELLE WAY INTERSECTION NOTES

THE INTERSECTION OF HOOK STREET AT LAROCHELLE WAY IS BEING MODIFIED HORIZONTALLY AND VERTICALLY. THE PROPOSED CENTER OF THE INTERSECTION IS APPROXIMATELY 3-FEET ABOVE EXISTING GRADE. MAINTAINING TRAFFIC USING TYPICAL DETAILS IS ESTIMATED TO TAKE 12 MONTHS TO IMPLEMENT PROPOSED CHANGES. TWO OPTIONS TO REDUCE CONSTRUCTION DURATION ARE DESCRIBED BELOW AND SCHEMATICALLY SHOWN ON SHEET 39.

OPTION 1:
- CLOSE HOOK STREET TO THRU TRAFFIC TO FACILITATE FILL AND GRADING OPERATIONS. DETOUR TRAFFIC (APPROX 7,500 VPD) VIA BY-PASS AND LAROCHELLE WAY.
- CONSTRUCT A BY-PASS ROADWAY THROUGH AN EXISTING PARKING LOT ON THE SOUTHERN SIDE OF THE INTERSECTION, A DETOUR WOULD NOT BE NECESSARY FOR LAROCHELLE WAY TRAFFIC (APPROX 2,400 VPD).
- ONCE HOOK STREET IS TO BINDER COURSE, SHIFT TRAFFIC FROM LAROCHELLE WAY TO HOOK STREET TO FINALIZE INTERSECTION GRADING.
- TIME EXPECTED TO BRING PROPOSED ROADWAY TO BINDER COURSE IS 2 MONTHS.

OPTION 2:
- CLOSE HOOK STREET AND LAROCHELLE WAY TO THRU TRAFFIC.
- DETOUR TRAFFIC VIA MAIN STREET OR AS DISCUSSED WITH THE TOWN OF SOUTHBRIDGE.
- MAINTAIN ABUTTER ACCESS
- TIME EXPECTED TO BRING PROPOSED ROADWAY TO BINDER COURSE IS ONE MONTH.

SOUTHBRIDGE
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/HSI-0033(042)X	38	91
PROJECT FILE NO. 608778			

TEMPORARY TRAFFIC CONTROL PLANS
LEGEND & GENERAL NOTES

LEGEND	
Ⓟ	POLICE OFFICER
Ⓢ	TRAFFIC SIGNAL
●	REFLECTORIZED DRUM
◉	REFLECTORIZED DRUM WITH SEQUENTIAL FLASHING WARNING LIGHTS (SEE GEN. NOTE 19)
	TEMPORARY CONSTRUCTION SIGN
▲	TRAFFIC CONE
	TYPE III BARRICADE
	ARROW BOARD (LEFT/RIGHT)
	ARROW BOARD (AB) (CAUTION)
	TEMPORARY PORTABLE RUMBLE STRIPS
	PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)
	WORK AREA (PUBLIC ACCESS RESTRICTED)
	LOCAL ACCESS ONLY
	TRAFFIC FLOW
	PEDESTRIAN ROUTE
	CONSTRUCTION FENCE
	PEDESTRIAN CHANNELIZATION DEVICE
NTS	NOT TO SCALE
TTCP	TEMPORARY TRAFFIC CONTROL PLAN

ADVANCE SIGN SPACING			
	DISTANCE BETWEEN SIGNS (FEET)		
ROADWAY	A	B	C
ALL ROADWAYS	100	100	100

BUFFER SPACING	
SPEED (MPH)	DISTANCE (FEET)
15	80
20	115
25	155
30	200
35	250
40	305

LANE TAPER LENGTH FORMULAS	
L= TAPER LENGTH IN FEET	
W= WIDTH OF ROADWAY TO BE SHIFTED OR REDIRECTED IN FEET	
S= POSTED SPEED LIMIT IN MPH	
POSTED SPEED	
40 MPH OR LESS	GREATER THAN 40 MPH
$L = \frac{WS^2}{60}$	L= WS

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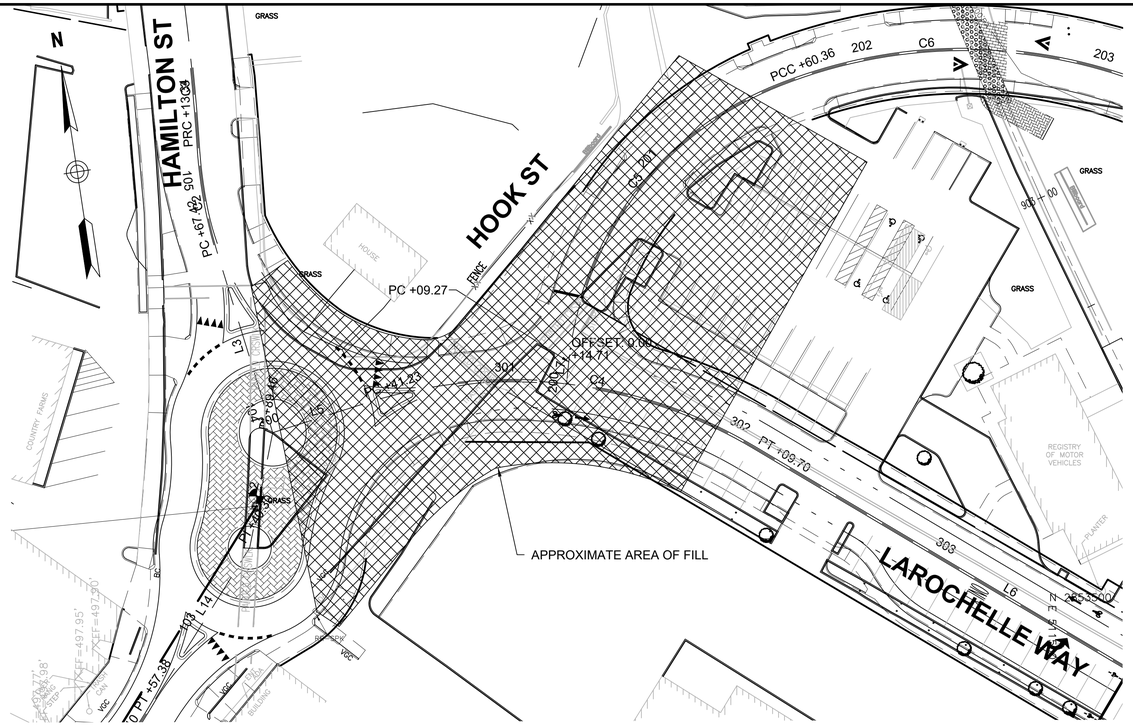
SOUTHBRIDGE
INTERSECTION IMPROVEMENTS

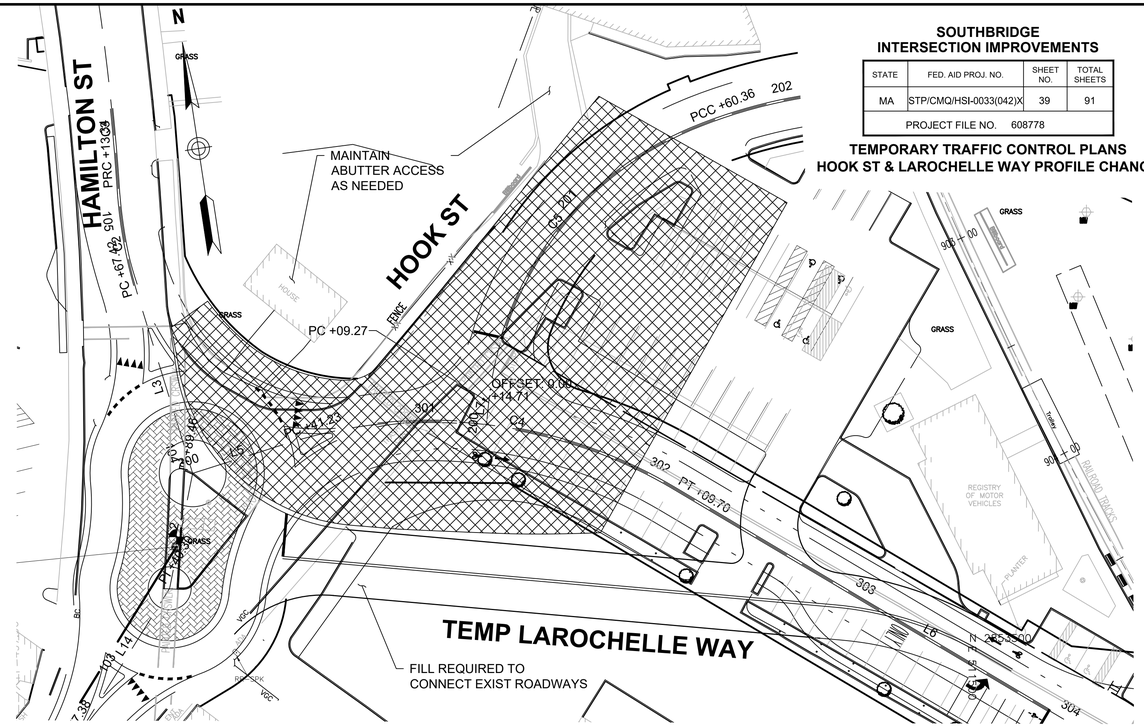
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/HSI-0033(042)X	39	91
PROJECT FILE NO. 608778			

TEMPORARY TRAFFIC CONTROL PLANS
HOOK ST & LAROCHELLE WAY PROFILE CHANGE



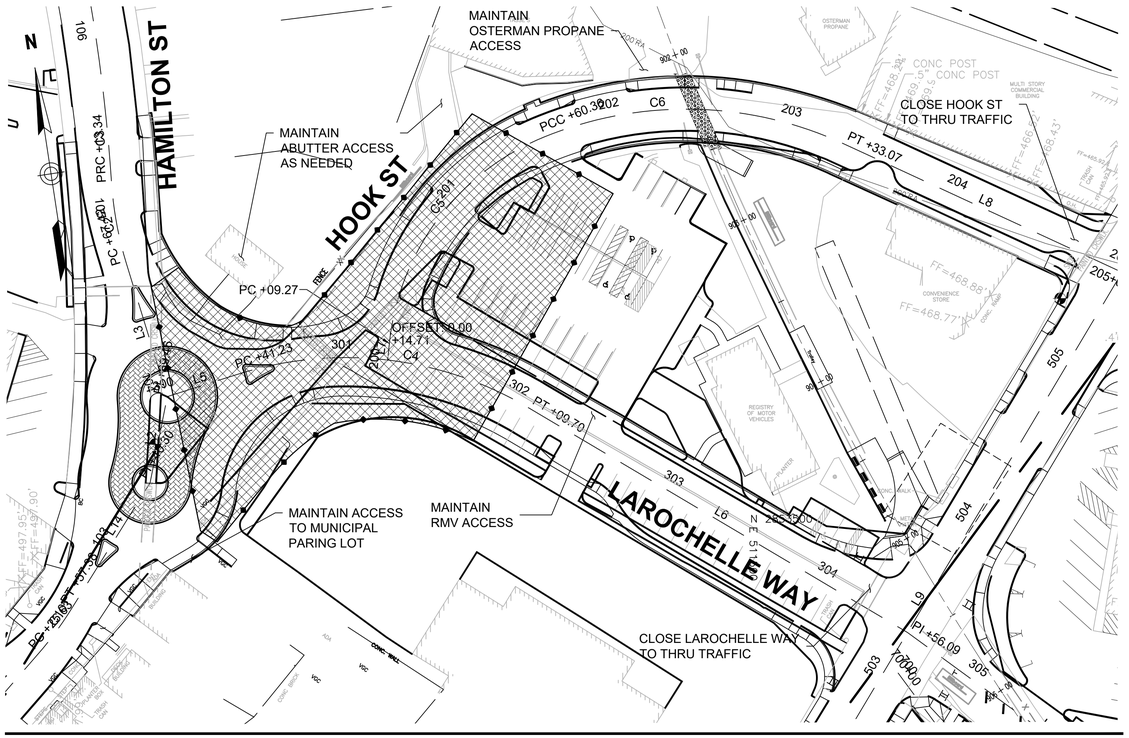
PROFILE CHANGE: APPROXIMATE AREA OF FILL

SCALE: 1"=30'



PROFILE CHANGE: OPTION 1 - BYPASS ROADWAY

SCALE: 1"=30'



PROFILE CHANGE: OPTION 2 - FULL CLOSURE & DETOUR

SCALE: 1"=40'

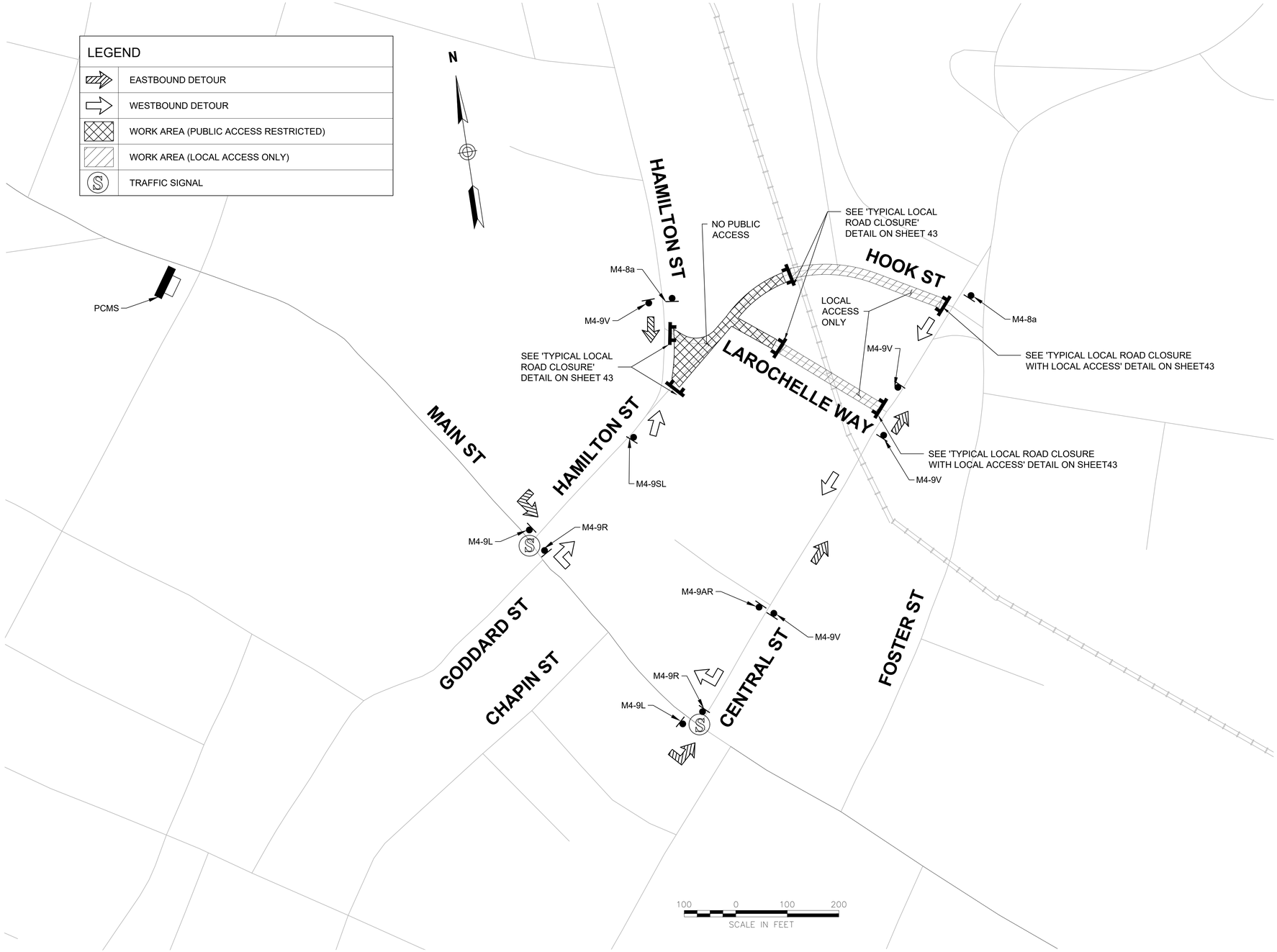
11672.02_HD(TTCP).DWG Plotted on 28-May-2025 3:59 PM

SOUTHBRIDGE
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/HSI-0033(042)X	40	91
PROJECT FILE NO. 608778			

TEMPORARY TRAFFIC CONTROL PLANS
HOOK ST & LAROCHELLE WAY PROFILE CHANGE

Plotted on 28-May-2025 3:59 PM
11672.02_HD(TTCP).DWG



PROFILE CHANGE: OPTION 2 SCHEMATIC DETOUR

SOUTHBRIDGE
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/HSI-0033(042)X	41	91
PROJECT FILE NO. 608778			

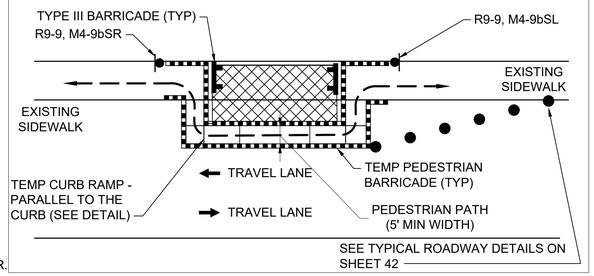
TEMPORARY TRAFFIC CONTROL PLANS
TYPICAL DETAILS

Plotted on 28-May-2025 3:59 PM
11672.02_HD(TTCP).DWG

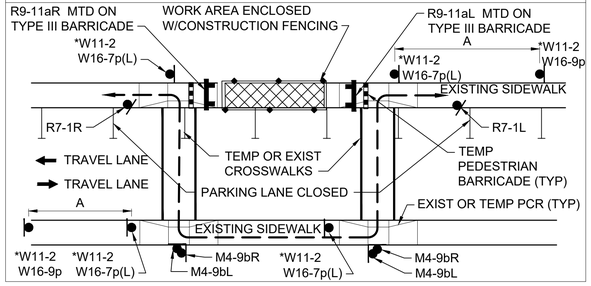
NOTES:

1. ADDITIONAL ADVANCE WARNING SIGNS MAY BE NECESSARY AS DETERMINED BY THE ENGINEER.
2. CONTROLS FOR PEDESTRIAN TRAFFIC ONLY, ARE SHOWN. VEHICULAR TRAFFIC SHALL BE MAINTAINED AS SHOWN ELSEWHERE.
3. STREET LIGHTING SHOULD BE CONSIDERED WHEN LOCATING CONTROL DEVICES.
4. — — — INDICATES DIRECTION OF PEDESTRIAN TRAVEL.
5. IF THE WORK ZONE DOES NOT PERMIT PEDESTRIANS TO TRAVEL ADJACENT TO IT AS SHOWN IN PEDESTRIAN BYPASS TYPE I, THE APPROPRIATE SIGNS SHALL BE INSTALLED TO CROSS PEDESTRIANS TO THE OPPOSITE SIDE OF THE STREET AT EXISTING OR TEMPORARY CROSSWALKS AS SHOWN IN PEDESTRIAN BYPASS TYPE II, AND AS DIRECTED BY THE ENGINEER.
6. PROPOSED TEMPORARY CROSSWALKS SHALL BE 12" WIDE SURFACE APPLIED TAPE OR REFLECTORIZED PAINT AS DIRECTED BY THE ENGINEER.
7. ALL TEMPORARY PEDESTRIAN PATHWAYS SHALL COMPLY FULLY WITH ALL REQUIREMENTS OF THE MUTCD AND ALL APPLICABLE MAAB AND ADAAG REQUIREMENTS AND INCLUDE THE USE OF A COMPLIANT TEMPORARY PEDESTRIAN MANAGEMENT GUIDANCE SYSTEM AT ALL TIMES.
8. CONTRACTOR SHALL MAINTAIN AS WIDE OF A PEDESTRIAN ACCESS AS POSSIBLE AT ALL TIMES. EXCEPT WHERE NECESSARY, THE CONTRACTOR MAY TEMPORARILY REDUCE PEDESTRIAN PATHWAYS TO 4 FEET IN WIDTH (EXCLUDING CURB) FOR NO MORE THAN 200 LINEAR FEET AT A TIME IN ACCORDANCE WITH ALL STANDARDS. A 5' x 5' PASSING AREA SHALL BE PROVIDED IN INTERVALS NOT EXCEEDING 200 FEET.
9. TEMPORARY PEDESTRIAN CURB RAMPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH MASSDOT, MAAB, AND ADAAG REQUIREMENTS.
10. TEMPORARY PEDESTRIAN BARRICADE SHALL BE PAID FOR UNDER ITEM 852.11 TEMPORARY PEDESTRIAN BARRICADE.
11. TEMPORARY PEDESTRIAN CURB RAMPS SHALL BE PAID FOR UNDER ITEM 852.12 TEMPORARY PEDESTRIAN CURB RAMP.
12. * INDICATES SIGNS ARE NOT REQUIRED IF EXISTING CROSSWALKS ARE USED.

PEDESTRIAN BYPASS TYPE I

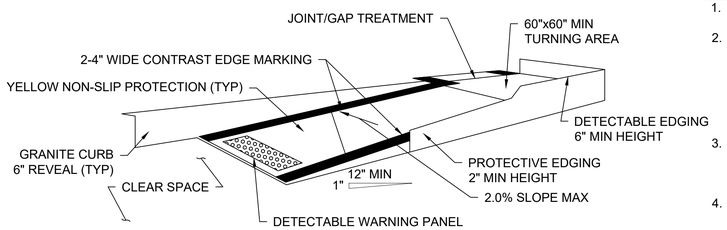


PEDESTRIAN BYPASS TYPE IV

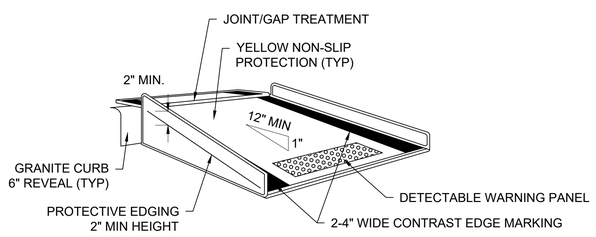


PEDESTRIAN BYPASS DETAIL

SCALE: NTS DWG: TTCP3a DATE: NOVEMBER 2020



TEMPORARY CURB RAMP-PARALLEL TO CURB



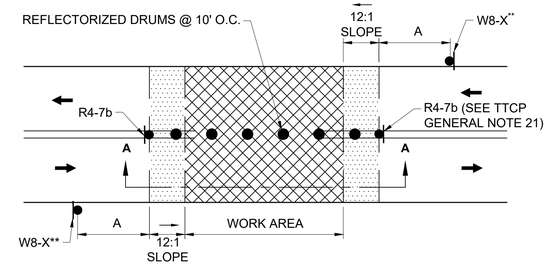
TEMPORARY CURB RAMP-PERPENDICULAR TO CURB

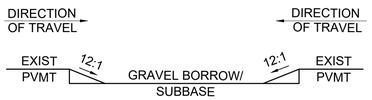
NOTES:

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

TEMPORARY CURB RAMPS

SCALE: NTS





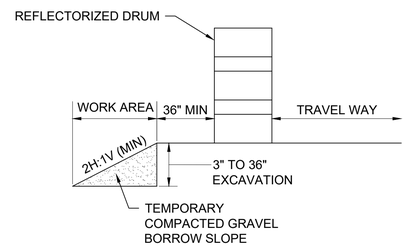
SECTION A-A

NOTES:

1. SQUARE OFF THE FULL WIDTH OF THE ROADWAY AT THE END OF WORK DAY.
2. ** CONTRACTOR SHALL INSTALL W8-1 AT LIMIT OF EXCAVATION OR W8-3, W8-8, W8-15, OR W8-24 SIGN, AS APPROPRIATE, ON ALL ROADWAYS IN ADVANCE OF THE TRANSITION UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
3. R4-7b SIGNS AND DRUMS MAY BE OMITTED AT THE DISCRETION OF THE ENGINEER.

TEMPORARY PAVEMENT TRANSITION

SCALE: NTS DWG: TTCP1g DATE: NOV 2020



NOTE:

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

TYPICAL ROADWAY DROP-OFF PROTECTION

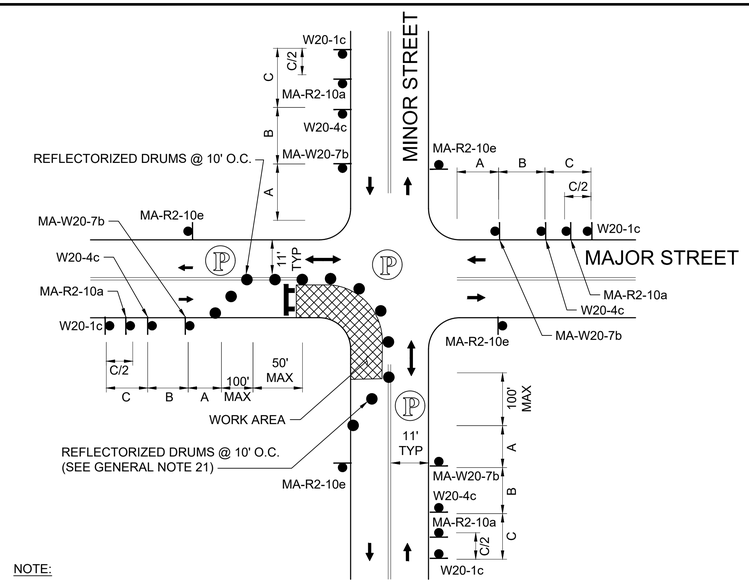
SCALE: NTS DWG: TTCP1f DATE: NOVEMBER 2020

SOUTHBRIDGE
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/HSI-0033(042)X	42	91
PROJECT FILE NO. 608778			

TEMPORARY TRAFFIC CONTROL PLANS
TYPICAL DETAILS

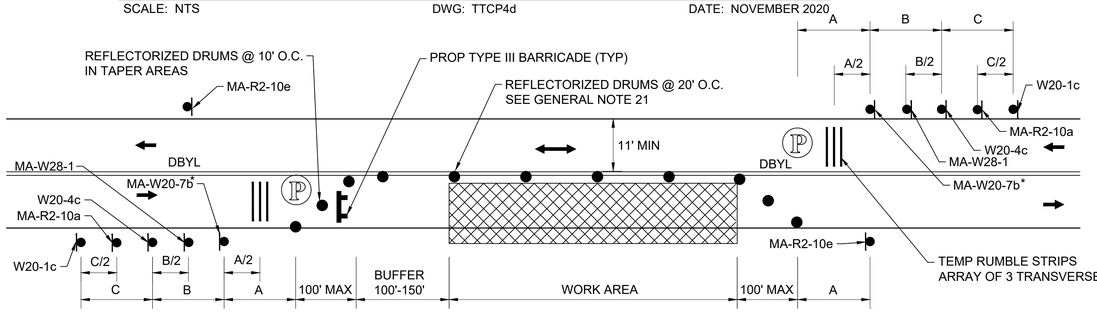
11672.02_HD(TTCP).DWG Plotted on 28-May-2025 3:59 PM



NOTE:
1. ADVANCE WARNING SIGN PLACEMENT TO BE ADJUSTED AS NECESSARY.
2. REFER TO ADVANCE SIGN SPACING TABLE ON SHEET 38.
3. SEE TTCP GENERAL NOTE 28 REGARDING ADVANCED SIGNAGE.

ONE LANE BI-DIRECTIONAL TRAFFIC AT-INTERSECTIONS - NEAR SIDE

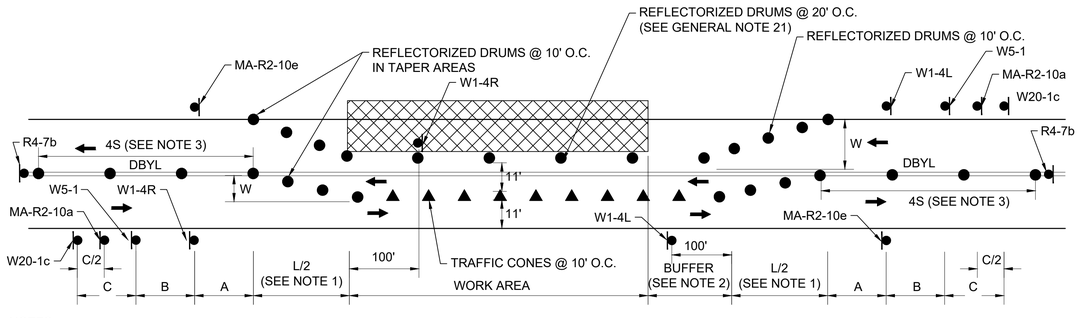
SCALE: NTS DWG: TTCP4d DATE: NOVEMBER 2020



NOTES:
1. REFER TO ADVANCE SIGN SPACING TABLE ON SHEET 38.
2. SEE TTCP GENERAL NOTE 28 REGARDING ADVANCED SIGNAGE.

TYPICAL TWO-WAY STREET LANE CLOSURE ALTERNATING TRAFFIC

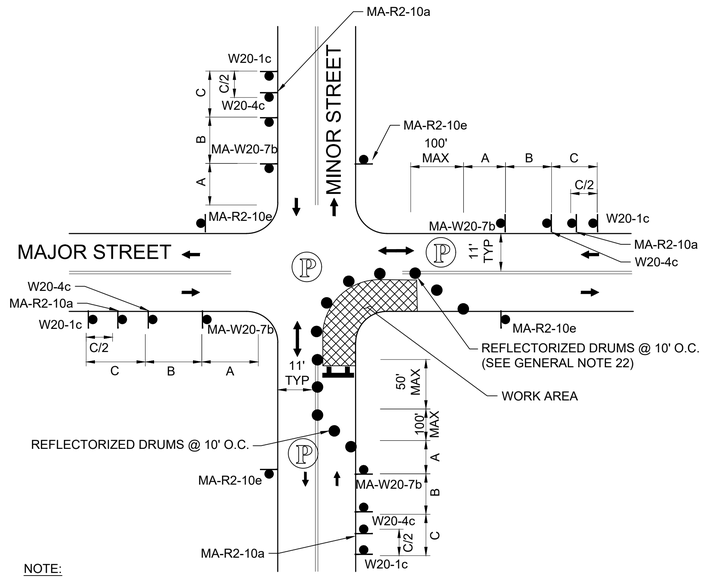
SCALE: NTS



NOTES:
1. SEE TAPER LENGTH FORMULA ON TTCP GENERAL NOTES & LEGEND SHEET.
2. SEE BUFFER SPACING CHART ON TTCP GENERAL NOTES & LEGEND SHEET.
3. S = POSTED SPEED OF ROADWAY IN MPH.
4. REFER TO ADVANCE SIGN SPACING TABLE ON TTCP GENERAL NOTES & LEGEND SHEET.
5. SEE TTCP GENERAL NOTE 28 REGARDING ADVANCED SIGNAGE.

TYPICAL TWO-WAY STREET LANE SHIFT

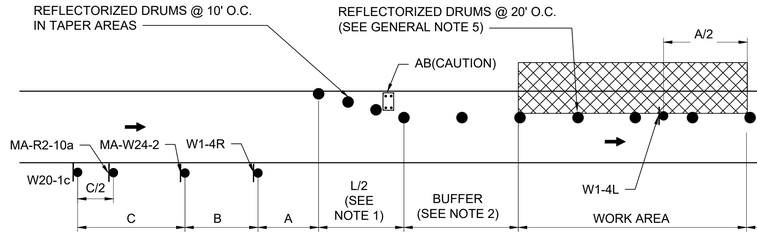
SCALE: NTS DWG: TTCP2a DATE: NOVEMBER 2020



NOTE:
1. ADVANCE WARNING SIGN PLACEMENT TO BE ADJUSTED AS NECESSARY.
2. REFER TO ADVANCE SIGN SPACING TABLE ON SHEET 38.
3. SEE TTCP GENERAL NOTE 28 REGARDING ADVANCED SIGNAGE.

ONE LANE BI-DIRECTIONAL TRAFFIC AT INTERSECTIONS - FAR SIDE

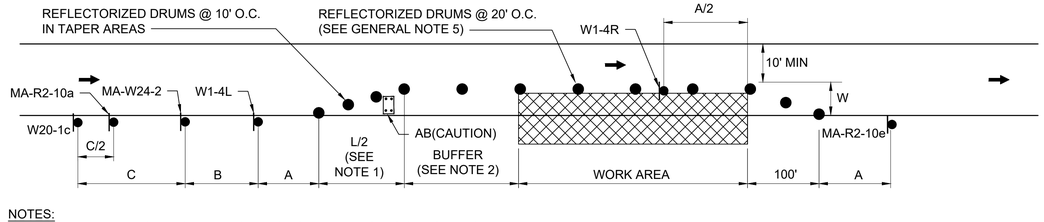
SCALE: NTS DWG: TTCP4c DATE: NOVEMBER 2020



NOTES:
1. SEE TAPER LENGTH FORMULA ON TTCP GENERAL NOTES & LEGEND SHEET.
2. SEE BUFFER SPACING CHART ON TTCP GENERAL NOTES & LEGEND SHEET.
3. SEE ADVANCE SIGN SPACING TABLE TTCP GENERAL NOTES & LEGEND SHEET.
4. SEE TTCP GENERAL NOTE 28 REGARDING ADVANCED SIGNAGE.

TYPICAL ONE-WAY STREET LANE SHIFT-RIGHT

SCALE: NTS DWG: TTCP2d DATE: NOVEMBER 2020



NOTES:
1. SEE TAPER LENGTH FORMULA ON TTCP GENERAL NOTES & LEGEND SHEET.
2. SEE BUFFER SPACING CHART ON TTCP GENERAL NOTES & LEGEND SHEET.
3. SEE ADVANCE SIGN SPACING TABLE TTCP GENERAL NOTES & LEGEND SHEET.
4. SEE TTCP GENERAL NOTE 28 REGARDING ADVANCED SIGNAGE.

TYPICAL ONE-WAY STREET LANE SHIFT-LEFT

SCALE: NTS DWG: TTCP2d DATE: NOVEMBER 2020

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/HSI-0033(042)X	43	91
PROJECT FILE NO. 608778			

TEMPORARY TRAFFIC CONTROL PLANS
TYPICAL DETAILS

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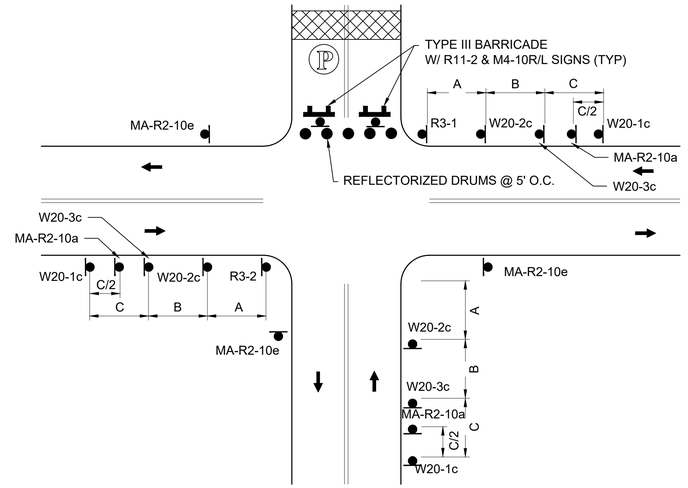
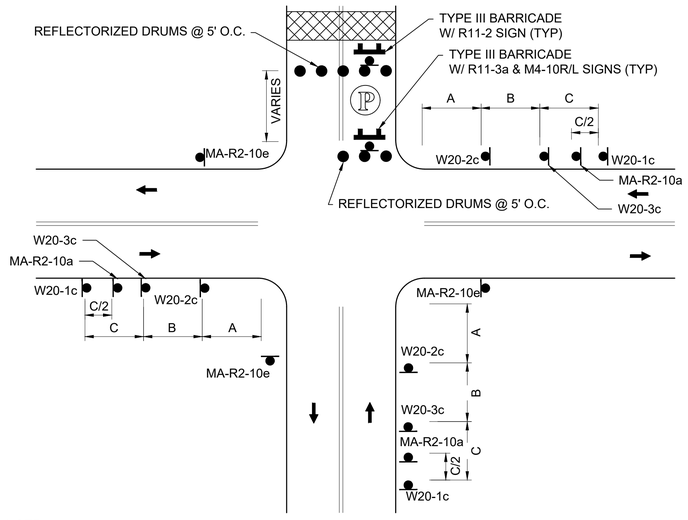


NOTE:
1. REFER TO ADVANCE SIGN SPACING TABLE ON TTCP GENERAL NOTES & LEGEND SHEET.
2. SEE TTCP GENERAL NOTE 28 REGARDING ADVANCED SIGNAGE.

TYPICAL LOCAL ROAD CLOSURE

SCALE: NTS DWG: TTCP5a DATE: NOVEMBER 2020



NOTE:
1. REFER TO ADVANCE SIGN SPACING TABLE ON TTCP GENERAL NOTES & LEGEND SHEET.
2. SEE TTCP GENERAL NOTE 28 REGARDING ADVANCED SIGNAGE.

TYPICAL LOCAL ROAD CLOSURE WITH LOCAL ACCESS

SCALE: NTS DWG: TTCP5b DATE: NOVEMBER 2020

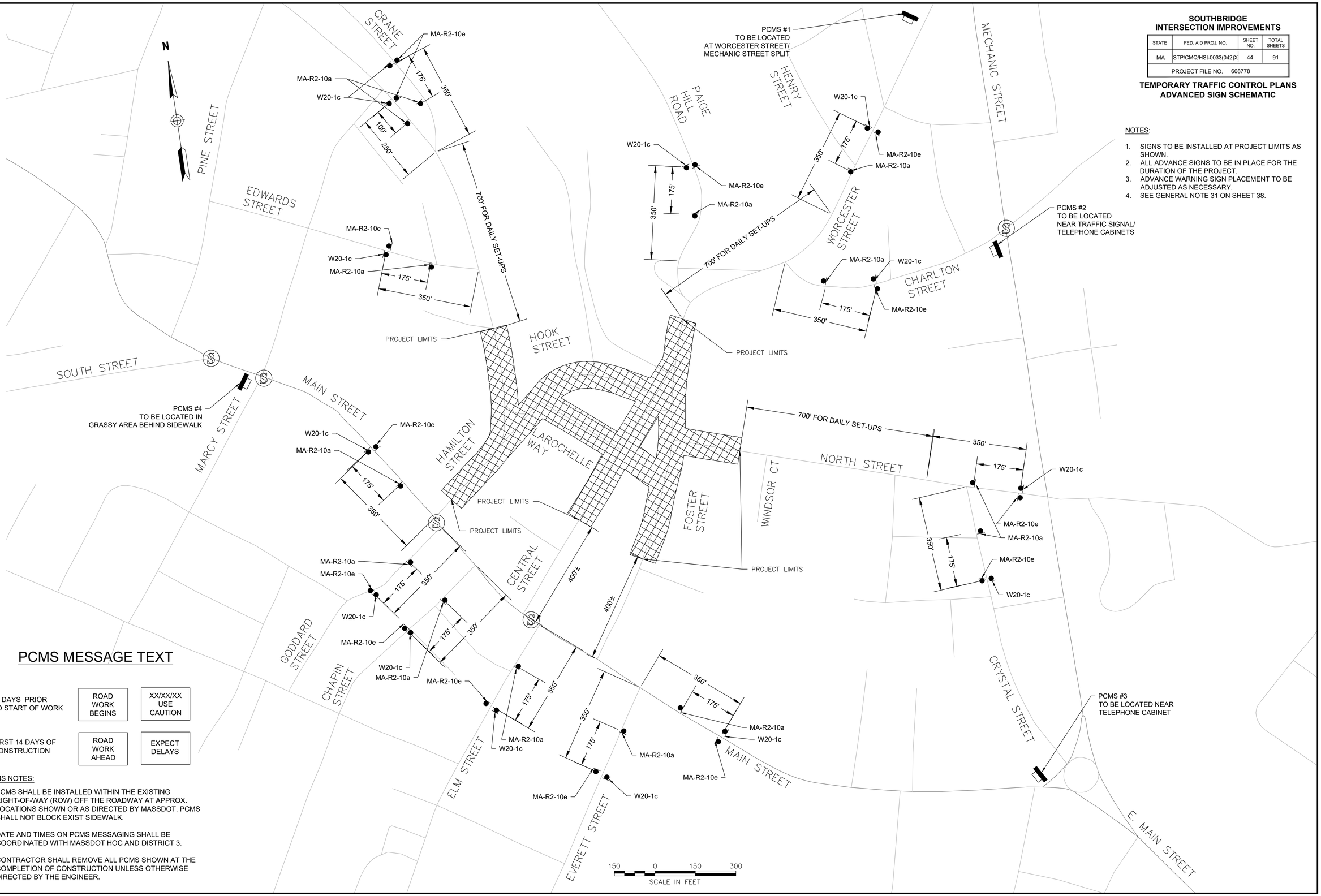
SOUTHBRIDGE
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/HSI-0033(042)X	44	91
PROJECT FILE NO. 608778			

TEMPORARY TRAFFIC CONTROL PLANS
ADVANCED SIGN SCHEMATIC

NOTES:

1. SIGNS TO BE INSTALLED AT PROJECT LIMITS AS SHOWN.
2. ALL ADVANCE SIGNS TO BE IN PLACE FOR THE DURATION OF THE PROJECT.
3. ADVANCE WARNING SIGN PLACEMENT TO BE ADJUSTED AS NECESSARY.
4. SEE GENERAL NOTE 31 ON SHEET 38.



PCMS MESSAGE TEXT

14 DAYS PRIOR TO START OF WORK	ROAD WORK BEGINS	XX/XX/XX USE CAUTION
FIRST 14 DAYS OF CONSTRUCTION	ROAD WORK AHEAD	EXPECT DELAYS

PCMS NOTES:

1. PCMS SHALL BE INSTALLED WITHIN THE EXISTING RIGHT-OF-WAY (ROW) OFF THE ROADWAY AT APPROX. LOCATIONS SHOWN OR AS DIRECTED BY MASSDOT. PCMS SHALL NOT BLOCK EXIST SIDEWALK.
2. DATE AND TIMES ON PCMS MESSAGING SHALL BE COORDINATED WITH MASSDOT HOC AND DISTRICT 3.
3. CONTRACTOR SHALL REMOVE ALL PCMS SHOWN AT THE COMPLETION OF CONSTRUCTION UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

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TEMPORARY TRAFFIC CONTROL SIGN SUMMARY

IDENTIFICATION NUMBER	SIZE OF SIGN WIDTH	SIZE OF SIGN HEIGHT	TEXT	TEXT DIMENSIONS (INCHES) LETTER HEIGHT	TEXT DIMENSIONS (INCHES) VERTICAL SPACING	TEXT DIMENSIONS (INCHES) ARROW RTE. MKR.	COLOR BACKGROUND	COLOR LEGEND	COLOR BORDER	UNIT AREA (S.F.)
MA-R2-10a	48"	36"	WORK ZONE / SPEEDING FINES DOUBLED	AS PER MASSDOT STANDARD			FLUORESCENT ORANGE / WHITE	BLACK	BLACK	12.00
MA-R2-10e	36"	48"	END ROAD WORK / DOUBLE FINES END				FLUORESCENT ORANGE / WHITE	BLACK	BLACK	12.00
R3-1	24"	24"		SEE FHWA "STANDARD HIGHWAY SIGNS, 2004 EDITION"; AS AMENDED			WHITE	RED/BLACK	BLACK	4.00
R3-2	24"	24"					WHITE	RED/BLACK	BLACK	4.00
R4-7b	24"	30"	KEEP RIGHT				WHITE	BLACK	BLACK	5.00
R7-1L	12"	18"	NO PARKING ANY TIME				WHITE	RED	RED	1.50
R7-1R	12"	18"	NO PARKING ANY TIME				WHITE	RED	RED	1.50
R9-9	24"	12"	SIDEWALK CLOSED				WHITE	BLACK	BLACK	2.00
R9-11a/R	24"	12"	SIDEWALK CLOSED CROSS HERE / SIDEWALK CLOSED CROSS HERE				WHITE	BLACK	BLACK	2.00
R9-11L/R	24"	18"	SIDEWALK CLOSED AHEAD CROSS HERE / SIDEWALK CLOSED AHEAD CROSS HERE				WHITE	BLACK	BLACK	3.00
R11-2	48"	30"	ROAD CLOSED				WHITE	BLACK	BLACK	10.00
R11-3a	60"	30"	ROAD CLOSED AHEAD LOCAL TRAFFIC ONLY				WHITE	BLACK	BLACK	12.50
M4-8	24"	12"	DETOUR				FLUORESCENT ORANGE	BLACK	BLACK	2.00
M4-8a	30"	24"	END DETOUR				FLUORESCENT ORANGE	BLACK	BLACK	5.00
M4-L/R	30"	24"	DETOUR / DETOUR				FLUORESCENT ORANGE	BLACK	BLACK	5.00
M4-9AL/R	30"	24"	DETOUR / DETOUR				FLUORESCENT ORANGE	BLACK	BLACK	5.00
M4-9SL/R	30"	24"	DETOUR / DETOUR				FLUORESCENT ORANGE	BLACK	BLACK	5.00
M4-9V	30"	24"	DETOUR				FLUORESCENT ORANGE	BLACK	BLACK	5.00
M4-9bL/R	30"	24"	DETOUR / DETOUR				FLUORESCENT ORANGE	BLACK	BLACK	5.00

TEMPORARY TRAFFIC CONTROL SIGN SUMMARY (CONTINUED)

IDENTIFICATION NUMBER	SIZE OF SIGN WIDTH	SIZE OF SIGN HEIGHT	TEXT	TEXT DIMENSIONS (INCHES) LETTER HEIGHT	TEXT DIMENSIONS (INCHES) VERTICAL SPACING	TEXT DIMENSIONS (INCHES) ARROW RTE. MKR.	COLOR BACKGROUND	COLOR LEGEND	COLOR BORDER	UNIT AREA (S.F.)
M4-9bSL/R	30"	24"	DETOUR / DETOUR	SEE FHWA "STANDARD HIGHWAY SIGNS, 2004 EDITION"; AS AMENDED			FLUORESCENT ORANGE	BLACK	BLACK	5.00
M4-10L/R	48"	18"	DETOUR / DETOUR				FLUORESCENT ORANGE	BLACK	---	6.00
W1-4L/R	36"	36"					FLUORESCENT ORANGE	BLACK	BLACK	9.00
W5-1	36"	36"	ROAD NARROWS				FLUORESCENT ORANGE	BLACK	BLACK	9.00
W8-1	36"	36"	BUMP				FLUORESCENT ORANGE	BLACK	BLACK	9.00
W8-3	36"	36"	PAVEMENT ENDS				FLUORESCENT ORANGE	BLACK	BLACK	9.00
W8-8	36"	36"	ROUGH ROAD				FLUORESCENT ORANGE	BLACK	BLACK	9.00
W8-9	36"	36"	LOW SHOULDER				FLUORESCENT ORANGE	BLACK	BLACK	9.00
W8-15	36"	36"	GROOVED PAVEMENT				FLUORESCENT ORANGE	BLACK	BLACK	9.00
W20-1c	36"	36"	ROAD WORK AHEAD				FLUORESCENT ORANGE	BLACK	BLACK	9.00
W20-2c	36"	36"	DETOUR AHEAD				FLUORESCENT ORANGE	BLACK	BLACK	9.00
W20-3c	36"	36"	ROAD CLOSED AHEAD				FLUORESCENT ORANGE	BLACK	BLACK	9.00
W20-4c	36"	36"	ONE LANE ROAD AHEAD				FLUORESCENT ORANGE	BLACK	BLACK	9.00
W20-7	36"	36"					FLUORESCENT ORANGE	BLACK	BLACK	9.00
MA-W20-7b	36"	36"	POLICE OFFICER AHEAD	AS PER MASSDOT STANDARD			FLUORESCENT ORANGE	BLACK	BLACK	9.00
W21-7	36"	36"	UTILITY WORK AHEAD	SEE FHWA "STANDARD HIGHWAY SIGNS, 2004 EDITION"; AS AMENDED			FLUORESCENT ORANGE	BLACK	BLACK	9.00
MA-W24-2	36"	36"	LANES SHIFT AHEAD	AS PER MASSDOT STANDARD			FLUORESCENT ORANGE	BLACK	BLACK	9.00
MA-W28-1	36"	36"	RUMBLE STRIPS AHEAD				FLUORESCENT ORANGE	BLACK	BLACK	9.00

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

SOUTHBRIDGE
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/HSI-0033(042)X	45	91
PROJECT FILE NO. 608778			

TEMPORARY TRAFFIC CONTROL PLANS
SIGN SUMMARY

Plotted on 28-May-2025 3:59 PM
11672.02_HD(TTCP).DWG

GENERAL NOTES

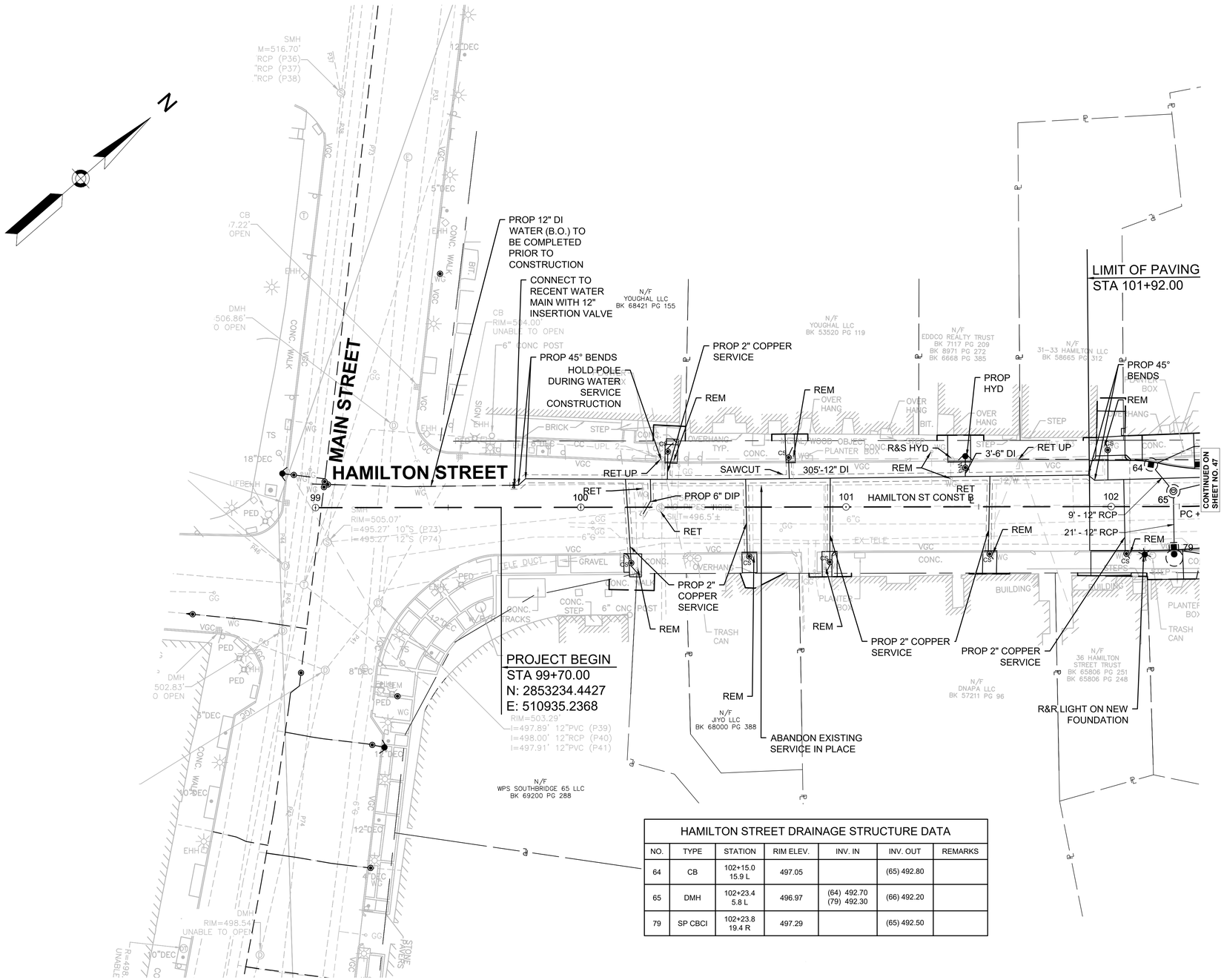
1. GAS INFRASTRUCTURE IS INTENDED TO BE UPDATED PRIOR TO PROJECT CONSTRUCTION UNLESS OTHERWISE NOTED. EXISTING GAS GATES WILL BE REMOVED BY THE GAS COMPANY.

SOUTHBRIDGE
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/HSI-0033(042)X	46	91
PROJECT FILE NO.	608778		

UTILITY PLANS

11672.02_HD(UTIL).DWG Plotted on 28-May-2025 4:00 PM



HAMILTON STREET DRAINAGE STRUCTURE DATA						
NO.	TYPE	STATION	RIM ELEV.	INV. IN	INV. OUT	REMARKS
64	CB	102+15.0 15.9 L	497.05		(65) 492.80	
65	DMH	102+23.4 5.8 L	496.97	(64) 492.70 (79) 492.30	(66) 492.20	
79	SP CBCI	102+23.8 19.4 R	497.29		(65) 492.50	

GENERAL NOTES

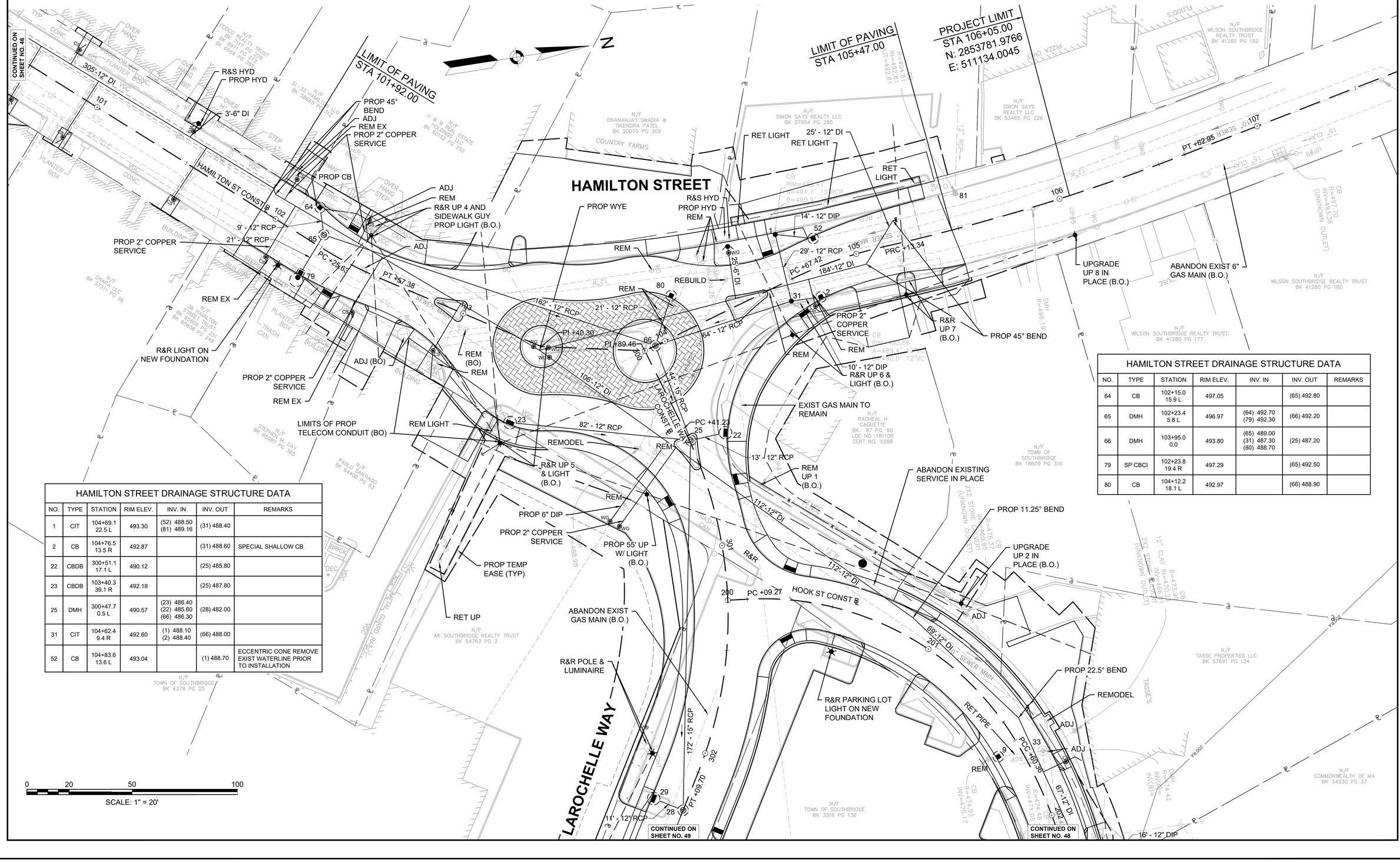
1. GAS INFRASTRUCTURE IS INTENDED TO BE UPDATED PRIOR TO PROJECT CONSTRUCTION UNLESS OTHERWISE NOTED. EXISTING GAS GATES WILL BE REMOVED BY THE GAS COMPANY.

SOUTHBRIDGE
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/HSI-0033(042)X	47	91
PROJECT FILE NO.	608778		

UTILITY PLANS

11672.02_HD(UTIL).DWG Plotted on 28-May-2025 4:00 PM



HAMILTON STREET DRAINAGE STRUCTURE DATA

NO.	TYPE	STATION	RIM ELEV.	INV. IN	INV. OUT	REMARKS
64	CB	102+15.0 15.9 L	497.05		(65) 492.80	
65	DMH	102+23.4 5.8 L	496.97	(64) 492.70 (79) 492.30	(66) 492.20	
66	DMH	103+95.0 0.0	493.80	(65) 489.00 (31) 487.30 (80) 488.70	(25) 487.20	
79	SP CBCI	102+23.8 19.4 R	497.29		(65) 492.50	
80	CB	104+12.2 18.1 L	492.97		(66) 488.90	

HAMILTON STREET DRAINAGE STRUCTURE DATA

NO.	TYPE	STATION	RIM ELEV.	INV. IN	INV. OUT	REMARKS
1	CIT	104+69.1 22.5 L	493.30	(52) 488.50 (81) 489.16	(31) 488.40	
2	CB	104+76.5 13.5 R	492.87		(31) 488.60	SPECIAL SHALLOW CB
22	CBDB	300+51.1 17.1 L	490.12		(25) 485.80	
23	CBDB	103+40.3 39.1 R	492.18		(25) 487.80	
25	DMH	300+47.7 0.5 L	490.57	(23) 486.40 (22) 485.60 (66) 486.30	(28) 482.00	
31	CIT	104+62.4 9.4 R	492.60	(1) 488.10 (2) 488.40	(66) 488.00	
52	CB	104+83.6 13.6 L	493.04		(1) 488.70	ECCENTRIC CONE REMOVE EXIST WATERLINE PRIOR TO INSTALLATION

HOOK STREET DRAINAGE STRUCTURE DATA

NO.	TYPE	STATION	RIM ELEV.	INV. IN	INV. OUT	REMARKS
9	CB	201+62.9 11.0 R	475.13		(33) 470.15	
10	GICI	202+36.3 11.0 R	473.91		(34) 471.30	
12	CIT	203+50.3 16.3 L	468.00	(82) 464.00 (24) 462.90 (54) 459.62	(EX) 455.94	COVER SHALL BE CONSTRUCTED TO BE FLUSH WITH DRIVEWAY
13	CB	504+67.0 15.0 L	467.24		(36) 462.90	
14	CB	505+06.4 15.0 R	465.34		(37) 461.80	SPECIAL SHALLOW CB
24	CB	203+60.3 13.0 L	467.56		(12) 463.00	ECCENTRIC CONE REMOVE EXIST WATERLINE PRIOR TO INSTALLATION
32	CB	202+30.8 8.0 R	474.01	(33) 469.44 (34) 469.44 (49) 469.56	(82) 469.34	ADJUST
33	EX DMH	201+70.9 8.9 L	475.08	(9) 470.00	(32) 469.90	ADJUST
34	EX CB	202+27.9 14.6 R	474.48	(10) 470.60 (35) 470.67 (DS-127) 470.67	(32) 469.50	REMODEL, PROP F&C

HOOK STREET DRAINAGE STRUCTURE DATA

NO.	TYPE	STATION	RIM ELEV.	INV. IN	INV. OUT	REMARKS
35	DCB	202+25.3 24.5 R	474.49		(34) 471.06	
36	EX DMH	505+41.5 15.2 L	464.00	(13) 462.00 (56) 462.00	(37) 461.50	ADJUST
37	EX DMH	505+41.8 17.0 R	463.94	(36) 461.20 (14) 461.50	(68) 454.00	DMH REMODEL-OFFSET TOP SLAB
45	SPCB - TYPE 1	602+02.1 16.0 R	457.29		(46) 454.60	
46	DMH	602+19.6 21.9 R	457.25	(21) 452.07 (45) 453.70	(16) 452.07	
47	CB	203+43.9 10.0 R	468.19		(82) 464.03	
49	CBCI	202+37.6 11.0 L	473.90		(32) 469.63	
54	EX DMH	203+50.3 58.3 R	470.55	(30) 463.10	(12) 460.88	EX DMH
56	GICI	204+43.5 7.0 R	465.02		(36) 462.40	

HOOK STREET DRAINAGE STRUCTURE DATA

NO.	TYPE	STATION	RIM ELEV.	INV. IN	INV. OUT	REMARKS
59	CB	506+04.4 14.5 L	460.00		(68) 455.02	
60	CB	506+04.4 15.0 R	459.98		(68) 455.60	
68	DMH	506+07.7 4.9 R	460.00	(37) 452.70 (60) 455.50 (59) 454.85	(70) 452.70	
82	DMH	203+28.5 7.0 L	469.01	(32) 465.05 (47) 463.91	(12) 465.05	

GENERAL NOTES

1. GAS INFRASTRUCTURE IS INTENDED TO BE UPDATED PRIOR TO PROJECT CONSTRUCTION UNLESS OTHERWISE NOTED. EXISTING GAS GATES WILL BE REMOVED BY THE GAS COMPANY.

SOUTHBRIDGE INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/HSI-0033(042)X	48	91
PROJECT FILE NO.	608778		

UTILITY PLANS

11672.02_HD(UTIL).DWG Plotted on 28-May-2025 4:01 PM

HOOK STREET
UPGRADE UP IN PLACE (B.O.) R&R LIGHT (B.O.)
7' - 12" RCP
PROP 2" COPPER SERVICE
R&S HYD
REM
PROP 22.5° BEND
RET
16' - 12" DIP
PROP HYD
RET UP 3
PROP 2" COPPER SERVICE
PROP 22.5° BEND
RET
ADJ
108'-12" DI
67'-12" DI
202
SEWER MAIN
R&R UP 4 & LIGHT (B.O.)
6' - 12" DIP
9' - 12" RCP
PROP DCB
PROP 11.25° BEND
UPGRADE UP 2 IN PLACE (B.O.)
PCC +60.36
RET
REM
RET UP
RET LIGHT
PROP 11.25° BEND
69'-12" DI
201
112'-12" DI
R&R LIGHT
THE CONTRACTOR SHALL NOT CONSTRUCT THE SIDEWALK, OR ANY PERMANENT INFRASTRUCTURE, WITHIN 20' OF THE GAS VAULT UNTIL THE VAULT IS ADJUSTED BY GAS COMPANY
27' - 12" DIP
6' - 12" RCP
170' - 15" RCP
CENTRAL STREET
CENTRAL ST CONST B
188'-12" DI
504
12" SEWER MAIN
ADJ (BO)
REM
R&S HYD
R&R UP 9 (B.O.)
RET UP 6
PROP HYD
15'-6" DI
17
30
CONTINUED ON SHEET NO. 49
29'-12" DI
82
CIT
PT +33.07
163'-12" DI
15" SEWER MAIN
204
HOOK ST CONST B
200'RA
47
56
ADJ
REM
ABANDON EXISTING DRAINAGE PIPE
42' - 12" DIP
PROP 2" COPPER SERVICE
71' - 12" RCP
ABANDON EXIST GAS MAIN (B.O.)
28' - 12" RCP
32' - 12" RCP
37
14
RET UP 10
REM
13
REM
RET UP 112
REM EX CB
RET PIPE
ADJ
PROP 22.5° BEND
78'-12" DI
FOSTER ST CONST B
506
PROP T FITTING
7' - 12" RCP
37'-12" DI
ADJ
REM
PROP T FITTING
602+79.24 FOSTER STREET=
506+91.78 CENTRAL ST
PROP 2" COPPER SERVICE
ABAN
RET
REM
LIMIT OF PAVING
STA 506+95.00
14' - 12" DIP
RET UP 11
PROP 45° BEND
19' - 6" DIP
602
45
46
60
59
68
205+04.55 HOOK STREET=
505+60.26 CENTRAL ST
LIMIT OF WORK
STA 507+50.00
N: 2853807.7656
E: 511797.6554
PC +90.56
507
15'-12" DI
PROP 45° BEND
REMODEL
PROP 22.5° BEND
PROP HYD
R&S HYD
16' - 12" RCP
ADJ (BO)
WOOD STEPS
177'-12" DI
506
RET
7' - 12" RCP
FOSTER STREET
PROJECT END
STA 405+50.00
N: 2853466.0513
E: 511871.2105
NORTH STREET
NORTH ST CONST B
405
PT +87.29
100'-12" DI
RET PIPE
RET UP 62
ABANDON EXIST GAS MAIN (B.O.)
PROP 2" COPPER SERVICE
REMODEL
PROP T FITTING
ADJ (BO)
83'-12" DI
PROP HYD
R&S HYD
RET UP PROP GUY
R&R UP 689
5' - 12" RCP
PC +09.96
FOSTER ST CONST B
404
CONTINUED ON SHEET NO. 49
CONTINUED ON SHEET NO. 47
0 20 50 100
SCALE: 1" = 20'

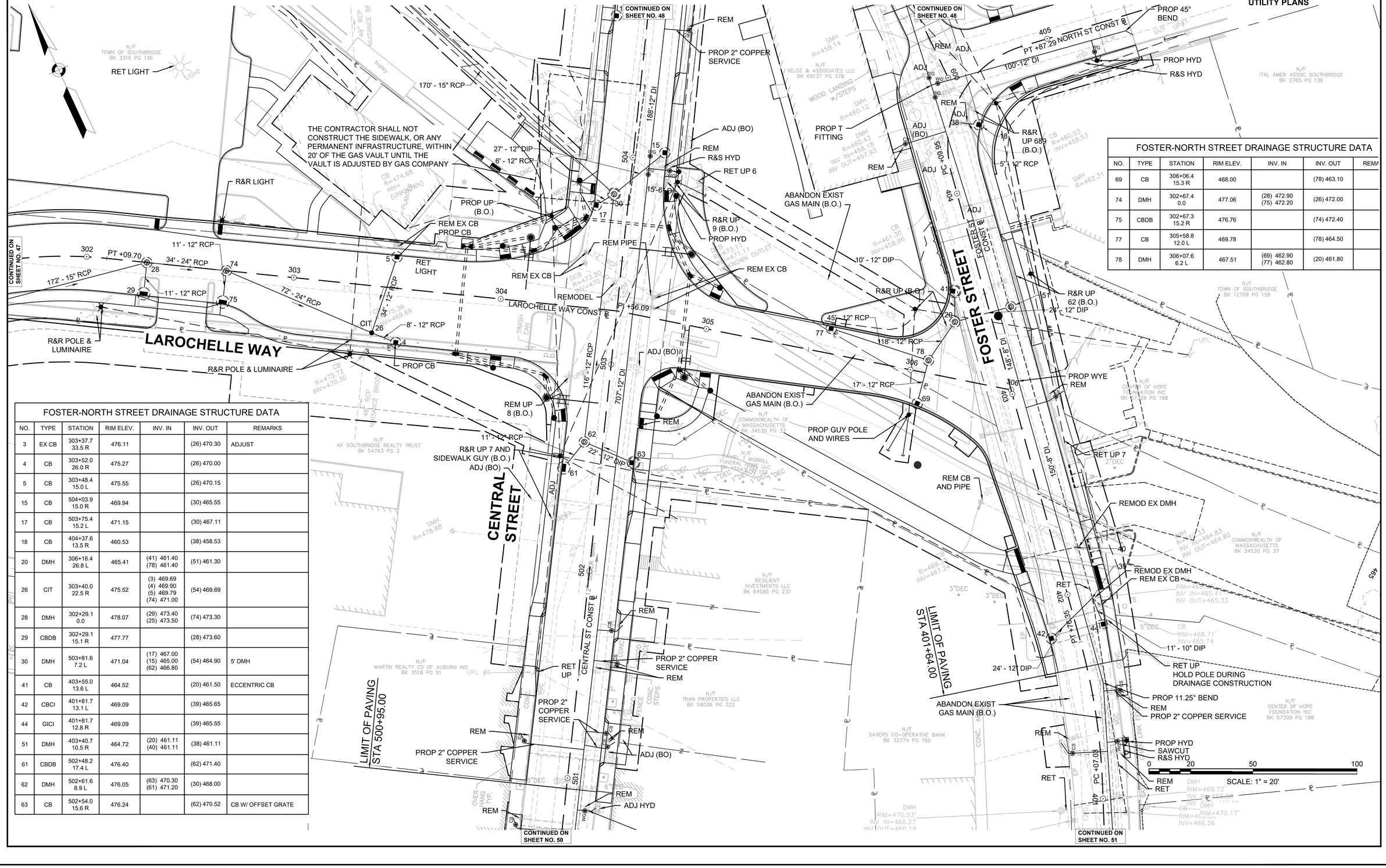
GENERAL NOTES

1. GAS INFRASTRUCTURE IS INTENDED TO BE UPDATED PRIOR TO PROJECT CONSTRUCTION UNLESS OTHERWISE NOTED. EXISTING GAS GATES WILL BE REMOVED BY THE GAS COMPANY.

SOUTHBRIDGE
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/HSI-0033(042)X	49	91
PROJECT FILE NO.	608778		

UTILITY PLANS



FOSTER-NORTH STREET DRAINAGE STRUCTURE DATA

NO.	TYPE	STATION	RIM ELEV.	INV. IN	INV. OUT	REMARKS
3	EX CB	303+37.7 33.5 R	476.11		(26) 470.30	ADJUST
4	CB	303+52.0 26.0 R	475.27		(26) 470.00	
5	CB	303+48.4 15.0 L	475.55		(26) 470.15	
15	CB	504+03.9 15.0 R	469.94		(30) 465.55	
17	CB	503+75.4 15.2 L	471.15		(30) 467.11	
18	CB	404+37.6 13.5 R	460.53		(38) 458.53	
20	DMH	306+16.4 26.8 L	465.41	(41) 461.40 (78) 461.40	(51) 461.30	
26	CIT	303+40.0 22.5 R	475.52	(3) 469.69 (4) 469.90 (5) 469.79 (74) 471.00	(54) 469.69	
28	DMH	302+29.1 0.0	478.07	(29) 473.40 (25) 473.50	(74) 473.30	
29	CBDB	302+29.1 15.1 R	477.77		(28) 473.60	
30	DMH	503+81.6 7.2 L	471.04	(17) 467.00 (15) 465.00 (62) 466.80	(54) 464.90	5' DMH
41	CB	403+55.0 13.6 L	464.52		(20) 461.50	ECCENTRIC CB
42	CBCI	401+81.7 13.1 L	469.09		(39) 465.65	
44	GICI	401+81.7 12.8 R	469.09		(39) 465.55	
51	DMH	403+40.7 10.5 R	464.72	(20) 461.11 (40) 461.11	(38) 461.11	
61	CBDB	502+48.2 17.4 L	476.40		(62) 471.40	
62	DMH	502+61.6 8.9 L	476.05	(63) 470.30 (61) 471.20	(30) 468.00	
63	CB	502+54.0 15.6 R	476.24		(62) 470.52	CB W/ OFFSET GRATE

FOSTER-NORTH STREET DRAINAGE STRUCTURE DATA

NO.	TYPE	STATION	RIM ELEV.	INV. IN	INV. OUT	REMA
69	CB	306+06.4 15.3 R	468.00		(78) 463.10	
74	DMH	302+67.4 0.0	477.06	(28) 472.90 (75) 472.20	(26) 472.00	
75	CBDB	302+67.3 15.2 R	476.76		(74) 472.40	
77	CB	305+58.8 12.0 L	469.78		(78) 464.50	
78	DMH	306+07.6 6.2 L	467.51	(69) 462.90 (77) 462.80	(20) 461.80	

11672.02_HD(UTIL).DWG Plotted on 28-May-2025 4:01 PM

GENERAL NOTES

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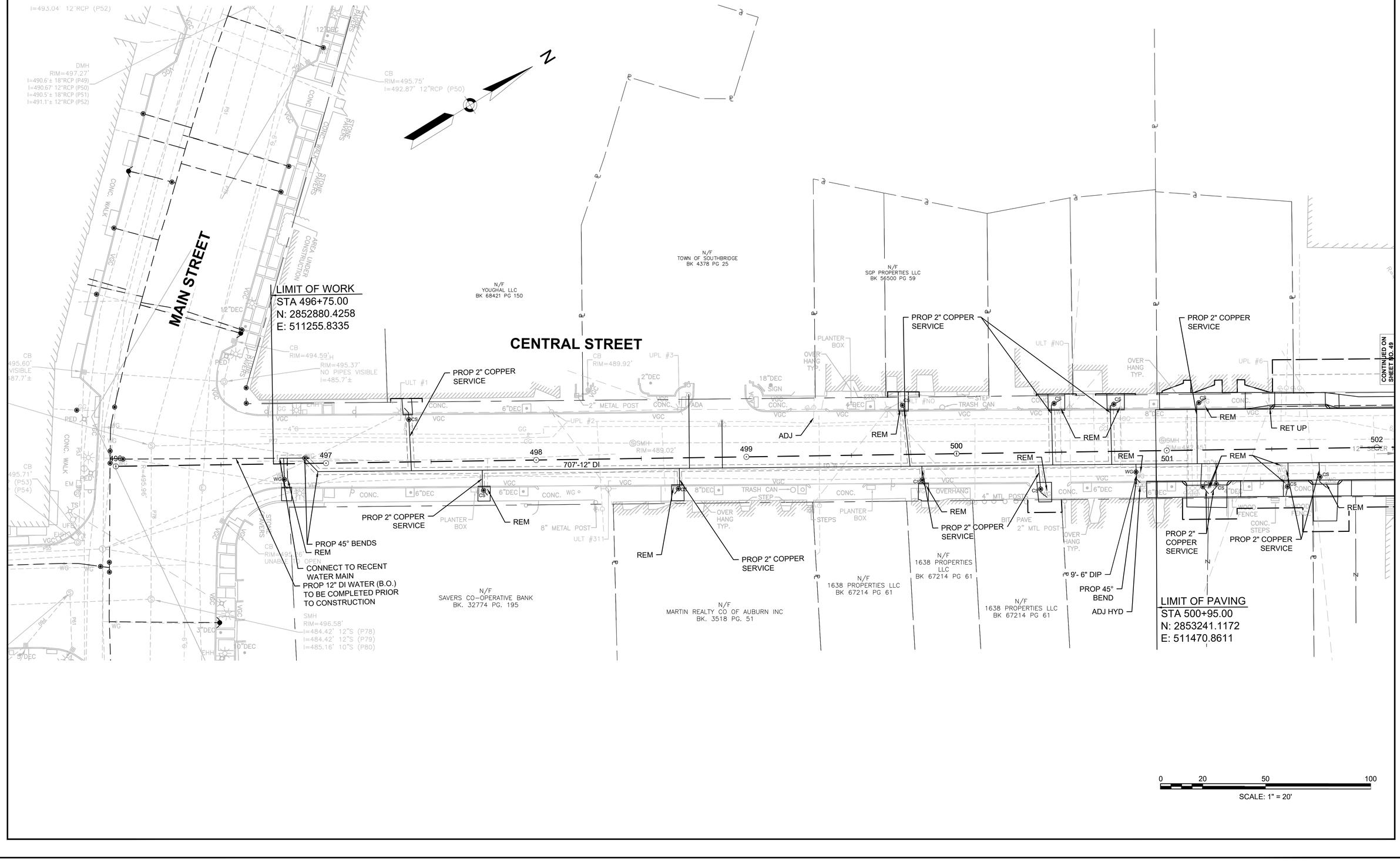
SOUTHBRIDGE
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/HSI-0033(042)X	50	91
PROJECT FILE NO.	608778		

UTILITY PLANS

11672.02_HD(UTIL).DWG Plotted on 28-May-2025 4:01 PM



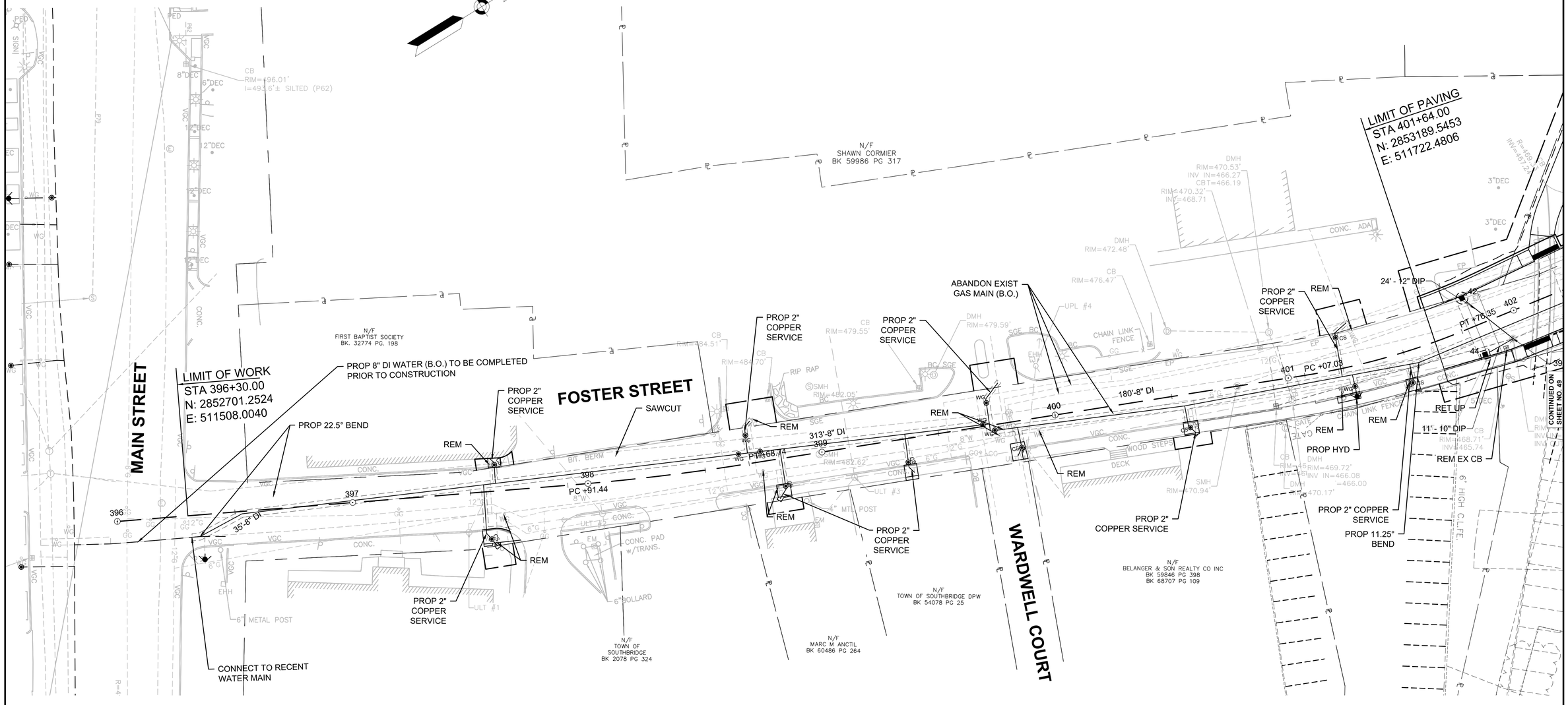
GENERAL NOTES

1. GAS INFRASTRUCTURE IS INTENDED TO BE UPDATED PRIOR TO PROJECT CONSTRUCTION UNLESS OTHERWISE NOTED. EXISTING GAS GATES WILL BE REMOVED BY THE GAS COMPANY.

SOUTHBRIDGE
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/HSI-0033(042)X	51	91
PROJECT FILE NO.	608778		

UTILITY PLANS



0 20 50 100

SCALE: 1" = 20'

11672.02_HD(UTIL).DWG Plotted on 28-May-2025 4:01 PM

NOTE:

1. SEE SHEET 54 FOR OVERALL PLANT SCHEDULE

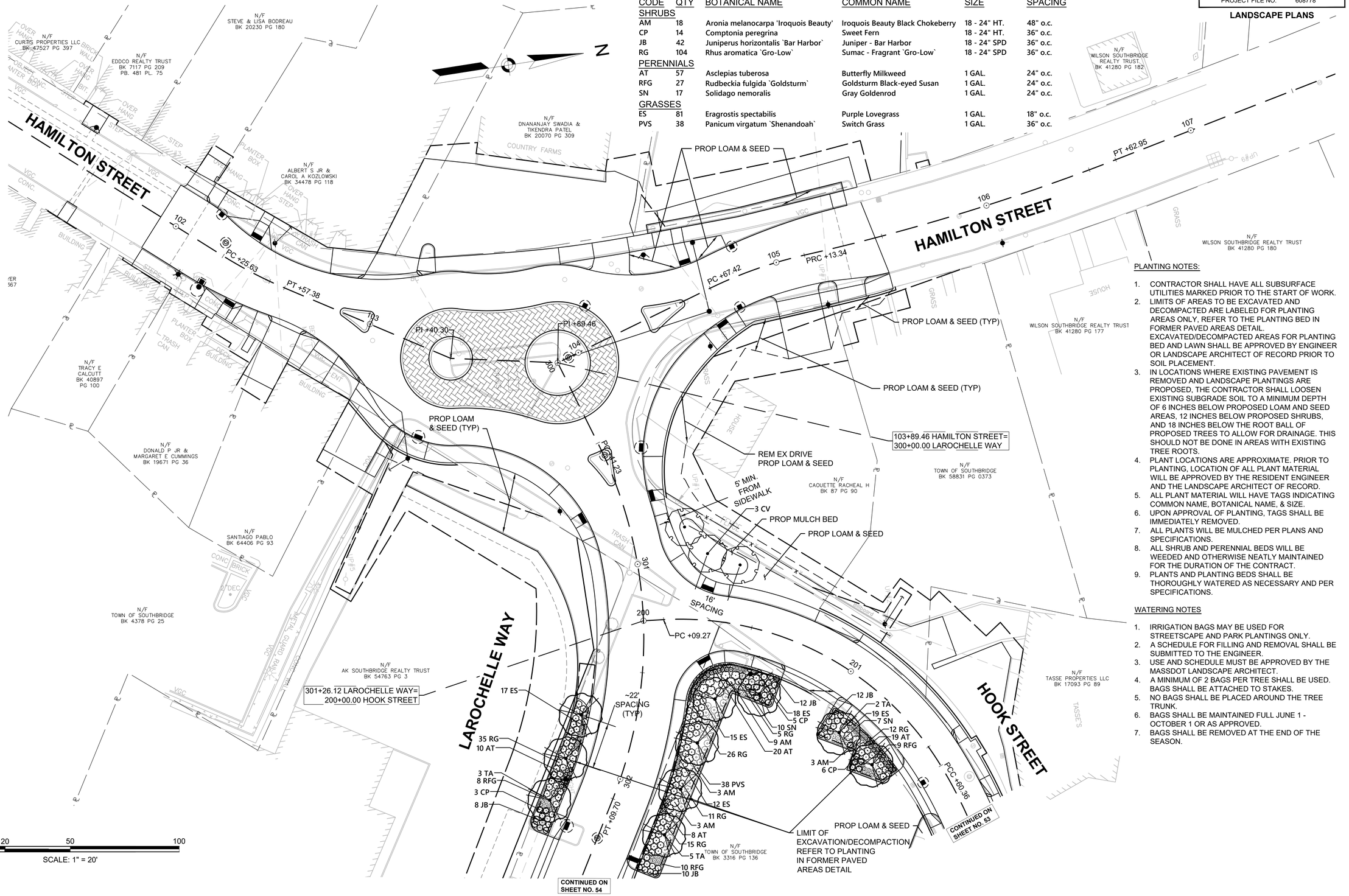
PLANT SCHEDULE SHEET 52

CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING
TREES					
CV	3	Crataegus viridis 'Winter King'	Green Hawthorn	1 1/2 - 2" CAL.	
TA	10	Tilia americana	Linden - American	2 - 2 1/2" CAL.	
CODE	**QTY**	**BOTANICAL NAME**	**COMMON NAME**	**SIZE**	**SPACING**
SHRUBS					
AM	18	Aronia melanocarpa 'Iroquois Beauty'	Iroquois Beauty Black Chokeberry	18 - 24" HT.	48" o.c.
CP	14	Comptonia peregrina	Sweet Fern	18 - 24" HT.	36" o.c.
JB	42	Juniperus horizontalis `Bar Harbor`	Juniper - Bar Harbor	18 - 24" SPD	36" o.c.
RG	104	Rhus aromatica `Gro-Low`	Sumac - Fragrant `Gro-Low`	18 - 24" SPD	36" o.c.
PERENNIALS					
AT	57	Asclepias tuberosa	Butterfly Milkweed	1 GAL.	24" o.c.
RFG	27	Rudbeckia fulgida `Goldsturm`	Goldsturm Black-eyed Susan	1 GAL.	24" o.c.
SN	17	Solidago nemoralis	Gray Goldenrod	1 GAL.	24" o.c.
GRASSES					
ES	81	Eragrostis spectabilis	Purple Lovegrass	1 GAL.	18" o.c.
PVS	38	Panicum virgatum `Shenandoah`	Switch Grass	1 GAL.	36" o.c.

SOUTHBRIDGE INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/HSI-0033(042)X	52	91
PROJECT FILE NO.	608778		

LANDSCAPE PLANS



PLANTING NOTES:

1. CONTRACTOR SHALL HAVE ALL SUBSURFACE UTILITIES MARKED PRIOR TO THE START OF WORK.
2. LIMITS OF AREAS TO BE EXCAVATED AND DECOMPACTED ARE LABELED FOR PLANTING AREAS ONLY, REFER TO THE PLANTING BED IN FORMER PAVED AREAS DETAIL. EXCAVATED/DECOMPACTED AREAS FOR PLANTING BED AND LAWN SHALL BE APPROVED BY ENGINEER OR LANDSCAPE ARCHITECT OF RECORD PRIOR TO SOIL PLACEMENT.
3. IN LOCATIONS WHERE EXISTING PAVEMENT IS REMOVED AND LANDSCAPE PLANTINGS ARE PROPOSED, THE CONTRACTOR SHALL LOOSEN EXISTING SUBGRADE SOIL TO A MINIMUM DEPTH OF 6 INCHES BELOW PROPOSED LOAM AND SEED AREAS, 12 INCHES BELOW PROPOSED SHRUBS, AND 18 INCHES BELOW THE ROOT BALL OF PROPOSED TREES TO ALLOW FOR DRAINAGE. THIS SHOULD NOT BE DONE IN AREAS WITH EXISTING TREE ROOTS.
4. PLANT LOCATIONS ARE APPROXIMATE. PRIOR TO PLANTING, LOCATION OF ALL PLANT MATERIAL WILL BE APPROVED BY THE RESIDENT ENGINEER AND THE LANDSCAPE ARCHITECT OF RECORD.
5. ALL PLANT MATERIAL WILL HAVE TAGS INDICATING COMMON NAME, BOTANICAL NAME, & SIZE.
6. UPON APPROVAL OF PLANTING, TAGS SHALL BE IMMEDIATELY REMOVED.
7. ALL PLANTS WILL BE MULCHED PER PLANS AND SPECIFICATIONS.
8. ALL SHRUB AND PERENNIAL BEDS WILL BE WEEDED AND OTHERWISE NEATLY MAINTAINED FOR THE DURATION OF THE CONTRACT.
9. PLANTS AND PLANTING BEDS SHALL BE THOROUGHLY WATERED AS NECESSARY AND PER SPECIFICATIONS.

WATERING NOTES

1. IRRIGATION BAGS MAY BE USED FOR STREETSCAPE AND PARK PLANTINGS ONLY.
2. A SCHEDULE FOR FILLING AND REMOVAL SHALL BE SUBMITTED TO THE ENGINEER.
3. USE AND SCHEDULE MUST BE APPROVED BY THE MASSDOT LANDSCAPE ARCHITECT.
4. A MINIMUM OF 2 BAGS PER TREE SHALL BE USED. BAGS SHALL BE ATTACHED TO STAKES.
5. NO BAGS SHALL BE PLACED AROUND THE TREE TRUNK.
6. BAGS SHALL BE MAINTAINED FULL JUNE 1 - OCTOBER 1 OR AS APPROVED.
7. BAGS SHALL BE REMOVED AT THE END OF THE SEASON.

11672.02_HD(LA).DWG Plotted on 28-May-2025 4:02 PM

PLANTING NOTES:

1. CONTRACTOR SHALL HAVE ALL SUBSURFACE UTILITIES MARKED PRIOR TO THE START OF WORK.
2. LIMITS OF AREAS TO BE EXCAVATED AND DECOMPACTED ARE LABELED FOR PLANTING AREAS ONLY, REFER TO THE PLANTING BED IN FORMER PAVED AREAS DETAIL. EXCAVATED/DECOMPACTED AREAS FOR PLANTING BED AND LAWN SHALL BE APPROVED BY ENGINEER OR LANDSCAPE ARCHITECT OF RECORD PRIOR TO SOIL PLACEMENT.
3. IN LOCATIONS WHERE EXISTING PAVEMENT IS REMOVED AND LANDSCAPE PLANTINGS ARE PROPOSED, THE CONTRACTOR SHALL LOOSEN EXISTING SUBGRADE SOIL TO A MINIMUM DEPTH OF 6 INCHES BELOW PROPOSED LOAM AND SEED AREAS, 12 INCHES BELOW PROPOSED SHRUBS, AND 18 INCHES BELOW THE ROOT BALL OF PROPOSED TREES TO ALLOW FOR DRAINAGE. THIS SHOULD NOT BE DONE IN AREAS WITH EXISTING TREE ROOTS.
4. PLANT LOCATIONS ARE APPROXIMATE. PRIOR TO PLANTING, LOCATION OF ALL PLANT MATERIAL WILL BE APPROVED BY THE RESIDENT ENGINEER AND THE LANDSCAPE ARCHITECT OF RECORD.
5. ALL PLANT MATERIAL WILL HAVE TAGS INDICATING COMMON NAME, BOTANICAL NAME, & SIZE.
6. UPON APPROVAL OF PLANTING, TAGS SHALL BE IMMEDIATELY REMOVED.
7. ALL PLANTS WILL BE MULCHED PER PLANS AND SPECIFICATIONS.
8. ALL SHRUB AND PERENNIAL BEDS WILL BE WEEDED AND OTHERWISE NEATLY MAINTAINED FOR THE DURATION OF THE CONTRACT.
9. PLANTS AND PLANTING BEDS SHALL BE THOROUGHLY WATERED AS NECESSARY AND PER SPECIFICATIONS.

WATERING NOTES

1. IRRIGATION BAGS MAY BE USED FOR STREETSCAPE AND PARK PLANTINGS ONLY.
2. A SCHEDULE FOR FILLING AND REMOVAL SHALL BE SUBMITTED TO THE ENGINEER.
3. USE AND SCHEDULE MUST BE APPROVED BY THE MASSDOT LANDSCAPE ARCHITECT.
4. A MINIMUM OF 2 BAGS PER TREE SHALL BE USED. BAGS SHALL BE ATTACHED TO STAKES.
5. NO BAGS SHALL BE PLACED AROUND THE TREE TRUNK.
6. BAGS SHALL BE MAINTAINED FULL JUNE 1 - OCTOBER 1 OR AS APPROVED.
7. BAGS SHALL BE REMOVED AT THE END OF THE SEASON.

PLANT SCHEDULE SHEET 53

CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE
TREES				
BN	2	Betula nigra - Clump	Birch River `Heritage`	6 - 8` HT./CLUMP
QP	1	Quercus palustris	Pin Oak	1 1/2 - 2" CAL.

NOTE

1. SEE SHEET 54 FOR OVERALL PLANT SCHEDULE

SOUTHBRIDGE
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/HSI-0033(042)X	53	91
PROJECT FILE NO.	608778		

LANDSCAPE PLANS

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SCALE: 1" = 20'

SOUTHBRIDGE INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/HSI-0033(042)X	54	91
PROJECT FILE NO.	608778		

LANDSCAPE PLANS

PLANT SCHEDULE SHEET 54

CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING
TREES					
AR	8	Acer rubrum `October Glory`	Maple - October Glory	2 - 2 1/2" CAL.	
NS	2	Nyssa sylvatica	Black Tupelo	1 1/2 - 2" CAL.	
QP	6	Quercus palustris	Pin Oak	1 1/2 - 2" CAL.	
TA	1	Tilia americana	Linden - American	2 - 2 1/2" CAL.	
SHRUBS					
AM	8	Aronia melanocarpa 'Iroquois Beauty'	Iroquois Beauty Black Chokeberry	18 - 24" HT.	48" o.c.
CP	10	Comptonia peregrina	Sweet Fern	18 - 24" HT.	36" o.c.
JB	12	Juniperus horizontalis `Bar Harbor`	Juniper - Bar Harbor	18 - 24" SPD	36" o.c.
PERENNIALS					
RFG	25	Rudbeckia fulgida `Goldsturm`	Goldsturm Black-eyed Susan	1 GAL.	24" o.c.
GRASSES					
PVS	18	Panicum virgatum `Shenandoah`	Switch Grass	1 GAL.	36" o.c.

OVERALL PLANT SCHEDULE

CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING
TREES					
AR	8	Acer rubrum `October Glory`	Maple - October Glory	2 - 2 1/2" CAL.	
BN	2	Betula nigra - Clump	Birch River `Heritage`	6 - 8` HT./CLUMP	
CV	3	Crataegus viridis 'Winter King'	Green Hawthorn	1 1/2 - 2" CAL.	
NS	2	Nyssa sylvatica	Black Tupelo	1 1/2 - 2" CAL.	
QP	7	Quercus palustris	Pin Oak	1 1/2 - 2" CAL.	
TA	11	Tilia americana	Linden - American	2 - 2 1/2" CAL.	
SHRUBS					
AM	26	Aronia melanocarpa 'Iroquois Beauty'	Iroquois Beauty Black Chokeberry	18 - 24" HT.	48" o.c.
CP	24	Comptonia peregrina	Sweet Fern	18 - 24" HT.	36" o.c.
JB	54	Juniperus horizontalis `Bar Harbor`	Juniper - Bar Harbor	18 - 24" SPD	36" o.c.
RG	104	Rhus aromatica `Gro-Low`	Sumac - Fragrant `Gro-Low`	18 - 24" SPD	36" o.c.
PERENNIALS					
AT	57	Asclepias tuberosa	Butterfly Milkweed	1 GAL.	24" o.c.
RFG	52	Rudbeckia fulgida `Goldsturm`	Goldsturm Black-eyed Susan	1 GAL.	24" o.c.
SN	17	Solidago nemoralis	Gray Goldenrod	1 GAL.	24" o.c.
GRASSES					
ES	81	Eragrostis spectabilis	Purple Lovegrass	1 GAL.	18" o.c.
PVS	56	Panicum virgatum `Shenandoah`	Switch Grass	1 GAL.	36" o.c.

PLANTING NOTES:

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2. LIMITS OF AREAS TO BE EXCAVATED AND DECOMPACTED ARE LABELED FOR PLANTING AREAS ONLY, REFER TO THE PLANTING BED IN FORMER PAVED AREAS DETAIL. EXCAVATED/DECOMPACTED AREAS FOR PLANTING BED AND LAWN SHALL BE APPROVED BY ENGINEER OR LANDSCAPE ARCHITECT OF RECORD PRIOR TO SOIL PLACEMENT.
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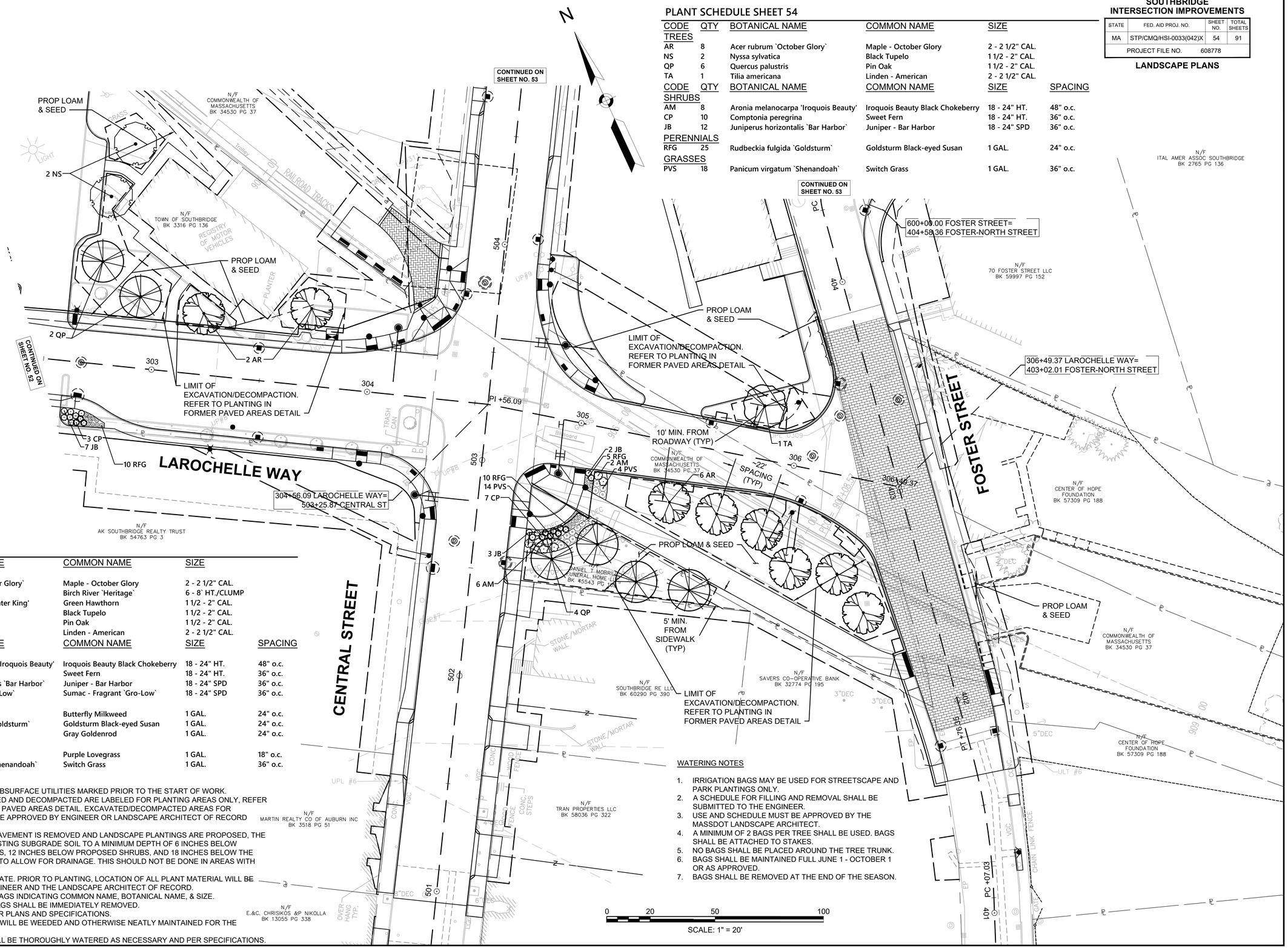
9. PLANTS AND PLANTING BEDS SHALL BE THOROUGHLY WATERED AS NECESSARY AND PER SPECIFICATIONS.



WATERING NOTES

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7. BAGS SHALL BE REMOVED AT THE END OF THE SEASON.

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SOUTHBRIDGE
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/HSI-0033(042)X	55	91
PROJECT FILE NO.	608778		

LANDSCAPE DETAILS

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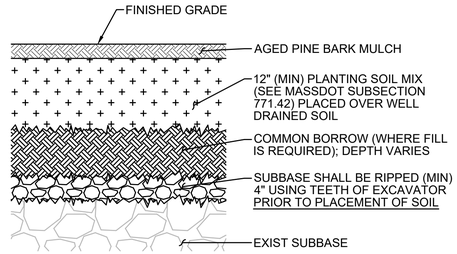
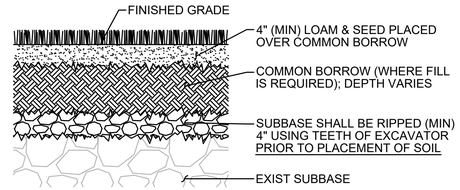


NOTE
ALL EXISTING ASPHALT SHALL BE STRIPPED AND REMOVED PROPT TO TILLING. ASPHALT SHALL NOT BE MIXED WITH THE SUBBASE.

PLANTING BED IN FORMER PAVED AREAS

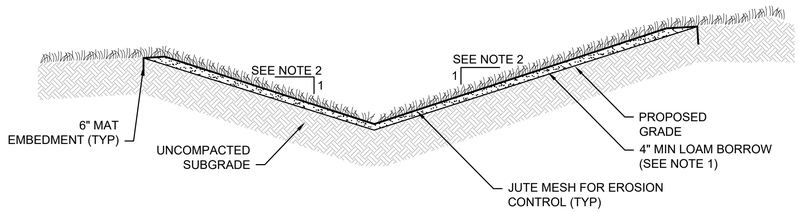
SCALE: NTS



NOTE
ALL EXISTING ASPHALT SHALL BE STRIPPED AND REMOVED PROP TO TILLING. ASPHALT SHALL NOT BE MIXED WITH THE SUBBASE.

LAWN IN FORMER PAVED AREAS

SCALE: NTS

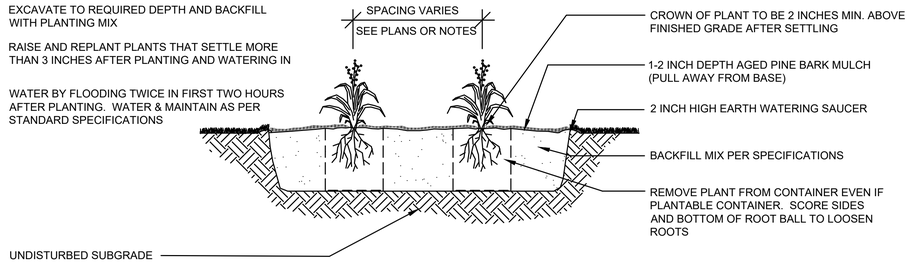


NOTES:

1. PLACE ITEM 751.1 LOAM FOR LAWNS TO A MINIMUM DEPTH OF 4". SEED WITH ITEM 765. SEEDING.
2. SIDE SLOPES TO MATCH PROPOSED OR EXISTING GRADE AS SHOWN ON PLANS BUT SHOULD NOT EXCEED 4:1.

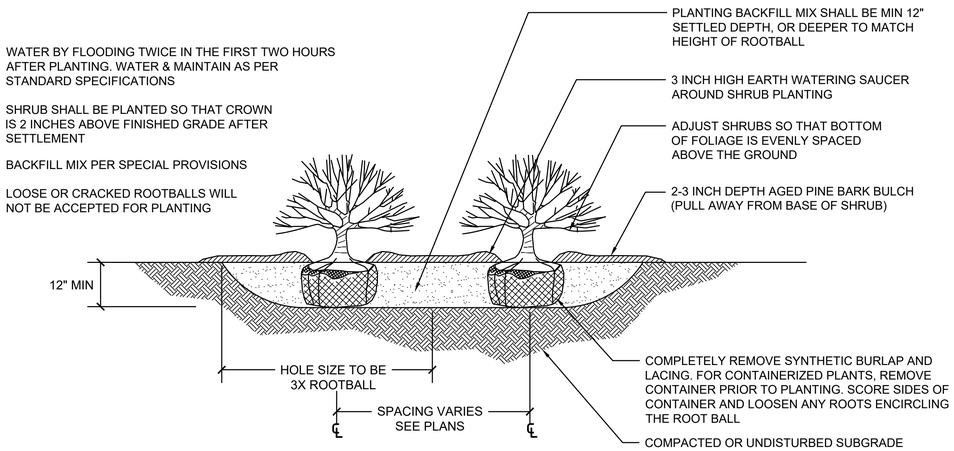
GRASS SWALE SECTION

SCALE: N.T.S. SOURCE: VHB DATE: AUGUST 7 2015



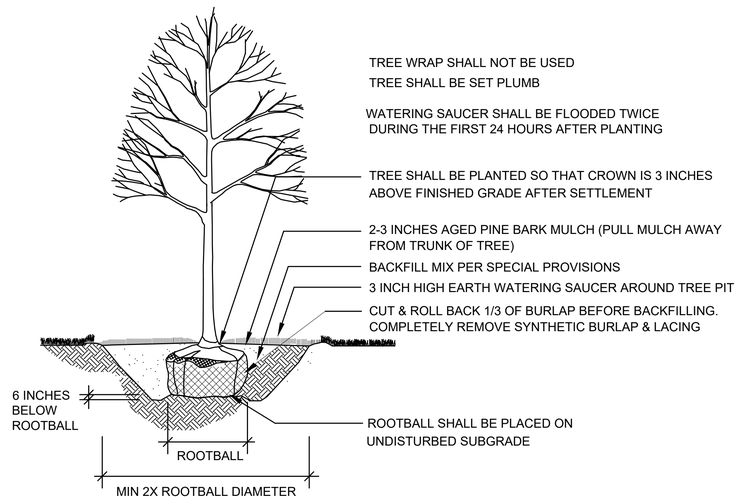
PERENNIALS AND GRASSES PLANTING

SCALE: NTS



SHRUB PLANTING

SCALE: NTS

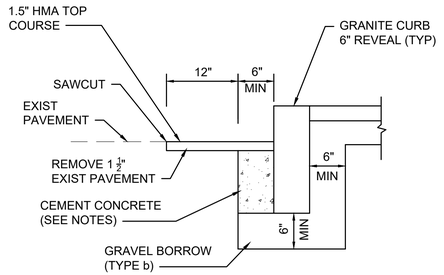


DECIDUOUS TREE PLANTING

SCALE: NTS

DO NOT CUT LEADER

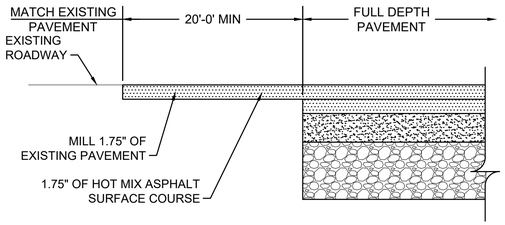
11672.02_HD(DET).DWG Plotted on 28-May-2025 4:02 PM



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

GRANITE CURB IN EXISTING PAVEMENT

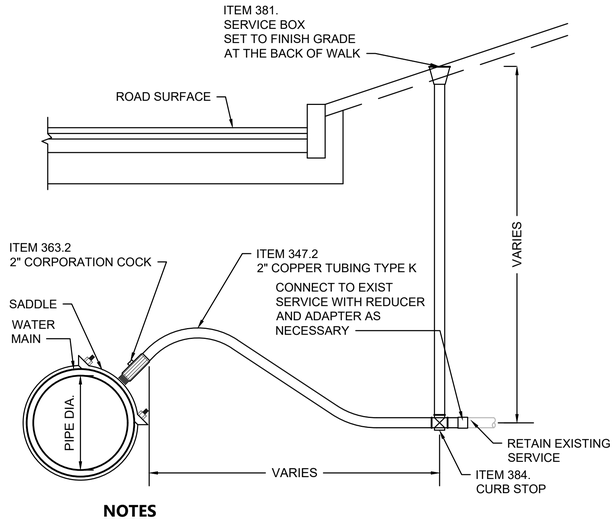
SCALE: N.T.S.



LONGITUDINAL SECTION

FULL DEPTH PAVEMENT TRANSITION

SCALE: N.T.S.



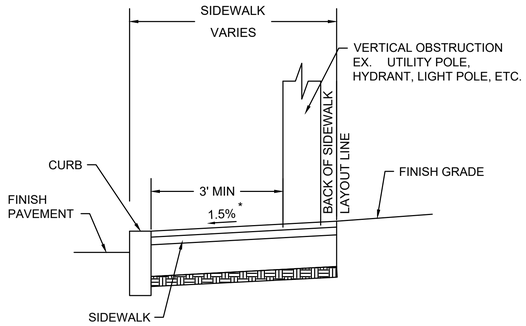
NOTES

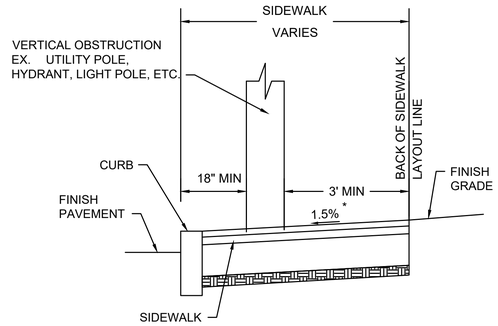
1. INSTALLATIONS SHALL CONFORM WITH TOWN OF SOUTHBRIDGE WATER DEPARTMENT SPECIFICATIONS AND STANDARDS.

WATER SERVICE

SCALE: N.T.S.

NOTES:
1. MINIMUM CLEAR PATH ON ALL SIDEWALK SHALL BE 36" EXCLUDING THE CURB. THE CLEAR PATH SHALL BE MEASURED TO FIRST VERTICAL FACE ENCOUNTERED ON THE OBSTRUCTION (INCLUDING ALL PROTRUSIONS LESS THAN 6'-8" IN HEIGHT).
2. CONTRACTOR SHALL VERIFY LOCATION OF ALL OBJECTS (SIGNS, POLES, ETC.) TO BE SET WITHIN THE SIDEWALK PRIOR TO FINAL PLACEMENT TO PROVIDE A MINIMUM CLEAR PATH OF 36". CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY LOCATION THAT CANNOT MEET THE CLEARANCE REQUIREMENTS.

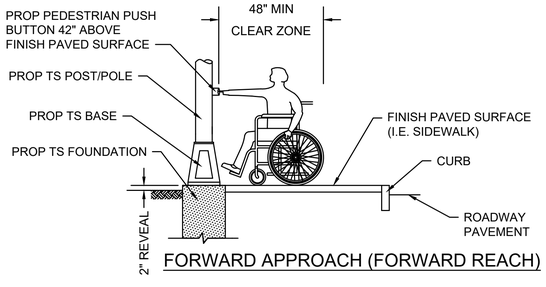




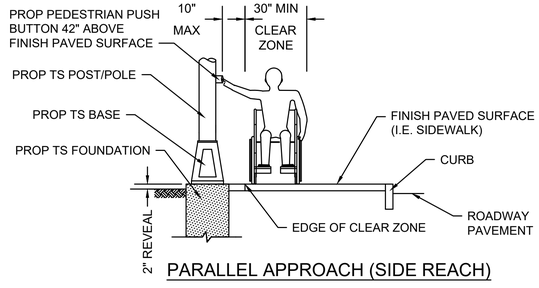
* TOLERANCE FOR CONSTRUCTION ±0.5%

SIDEWALK CLEARANCE VERTICAL OBSTRUCTION

SCALE: N.T.S. DWG: WALK-04 DATE: JUNE 2018



FORWARD APPROACH (FORWARD REACH)



PARALLEL APPROACH (SIDE REACH)

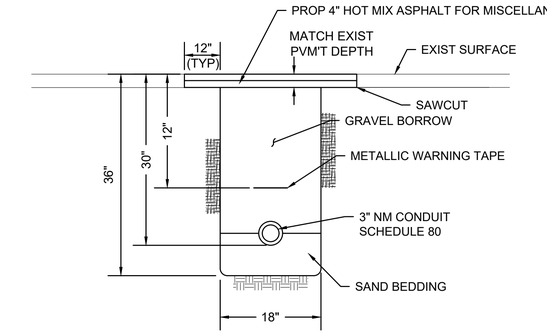
NOTE:
A CLEAR GROUND SPACE SHALL CONSIST OF A STABLE AND FIRM AREA, COMPLYING WITH 521 CMR 6.5 (FORWARD REACH) OR 521 CMR 6.6 (SIDE REACH) AND SHALL BE PROVIDED AT EACH OF THE PEDESTRIAN PUSH BUTTONS.

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

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

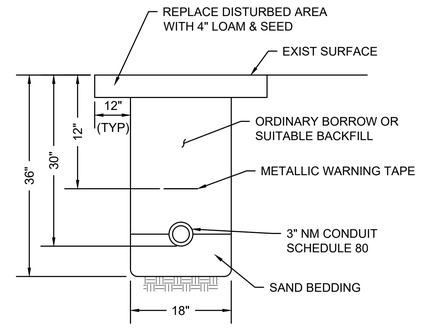
PEDESTRIAN PUSH BUTTON CLEAR ZONE

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



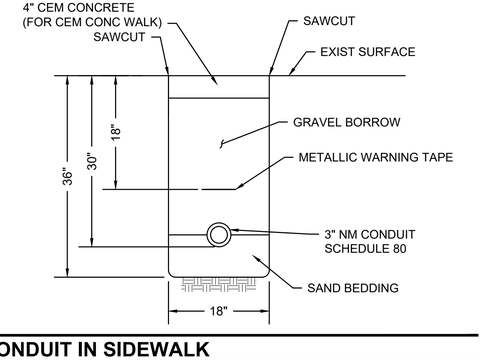
CONDUIT CROSSING ROADWAY/DRIVEWAY

SCALE: N.T.S. DWG: TRENCH-01 DATE: MARCH 2013



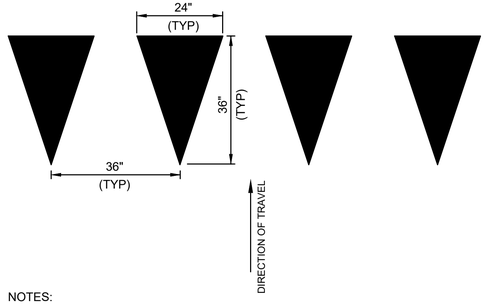
CONDUIT IN GRASS

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



CONDUIT IN SIDEWALK

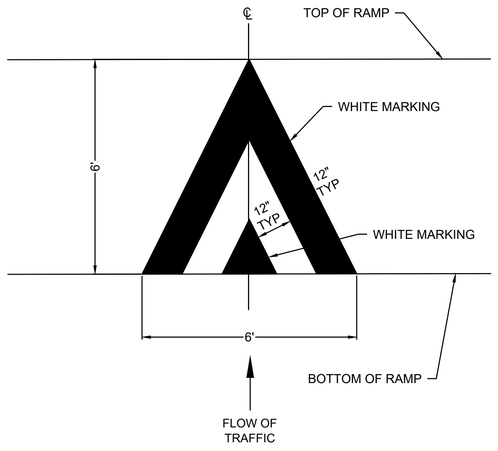
SCALE: N.T.S. DWG: TRENCH-03 DATE: MARCH 2013



NOTES:
1. YIELD LINES SHALL CONSIST OF A ROW OF SOLID WHITE TRIANGLES.
2. IF APPLICABLE, YIELD LINES SHALL BE PLACED 4-FEET IN ADVANCE OF THE NEAREST CROSSWALK LINE.
3. IN THE ABSENCE OF A MARKED CROSSWALK, YIELD LINES SHALL BE PLACED AS SHOWN ON THE PLANS.
4. YIELD LINES SHALL BE REFLECTORIZED PREFORMED THERMOPLASTIC.

YIELD LINE TRIANGLES

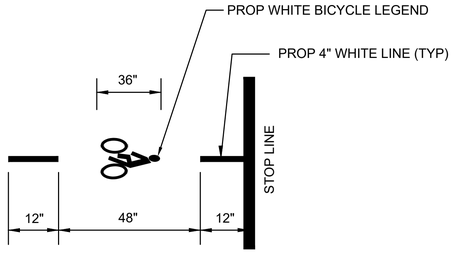
SCALE: NTS



NOTES:
1. SEE MUTCD FIGURE 3B-29 FOR MORE INFORMATION.
2. RAISED CROSSWALK MARKING SHALL BE REFLECTORIZED PREFORMED THERMOPLASTIC.
3. MARKINGS TO BE LOCATED IN CENTER OF TRAVEL LANE. SEE SIGNAGE AND MARKING PLANS FOR LOCATIONS.

RAISED CROSSWALK MARKINGS

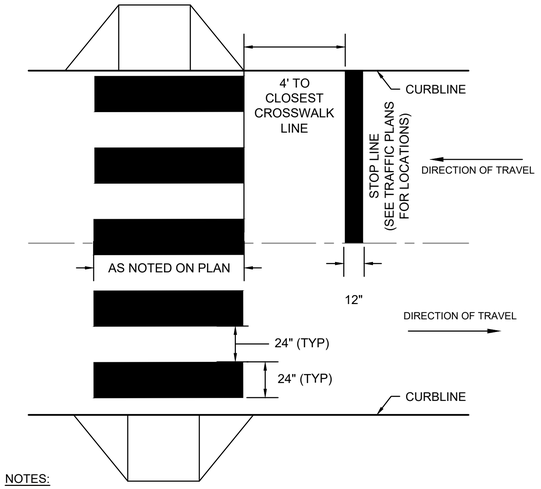
SCALE: N.T.S. DWG: PM-37 DATE: JUNE 2019



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

BICYCLE LEGEND DETAIL

SCALE: N.T.S.

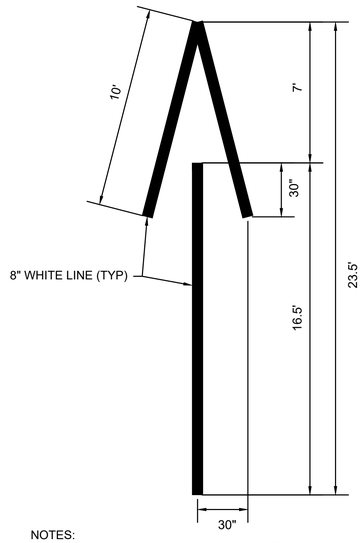


NOTES:

1. ALL 12" AND 24" LINES SHALL BE APPLIED IN ONE APPLICATION, NO COMBINATION OF LINES (e.g. TWO - 6" LINES OR TWO-12" LINES) WILL BE ACCEPTED.
2. CROSSWALK LINES SHALL BE IN THE DIRECTION OF TRAVEL AND LOCATED OUTSIDE OF TYPICAL VEHICLE WHEEL PATHS.
3. LAYOUT OF CROSSWALKS SHALL BE APPROVED BY THE RESIDENT ENGINEER PRIOR TO INSTALLATION.
4. ALL CROSSWALKS INSTALLED SHALL CONFORM TO THE RELEVANT PROVISIONS OF THE MASSACHUSETTS HIGHWAY DEPARTMENT "STANDARD SPECIFICATION FOR HIGHWAY AND BRIDGES" DATED 2022, SECTION 860 FOR REFLECTORIZED PAVEMENT MARKINGS & MATERIAL M7.01.03, LATEST REVISIONS.

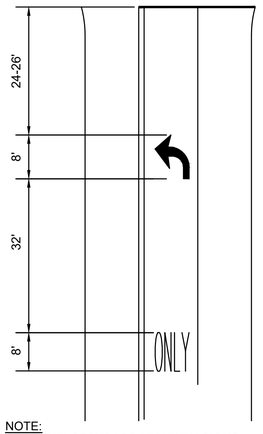
CROSSWALK DETAIL -TOWN STANDARD

SCALE: N.T.S.



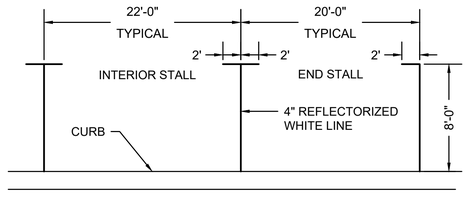
NOTES:
1. SEE MUTCD FIGURE 3B-24 FOR MORE INFORMATION.
2. ARROW SHALL BE REFLECTORIZED THERMOPLASTIC.

WRONG-WAY PAVEMENT ARROW



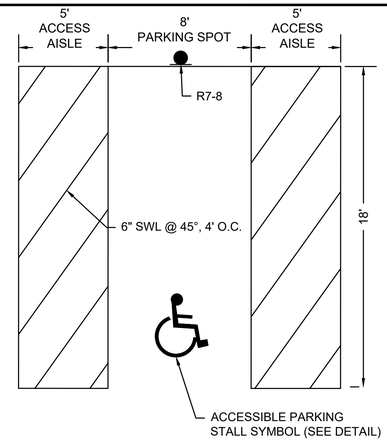
NOTE:
SEE FHWA STANDARD HIGHWAY SIGNS MANUAL FOR ARROW AND LEGEND DETAILS.

TYPICAL PAVEMENT MARKING ARROW/LEGEND LAYOUT



PARALLEL PARKING STALL MARKINGS

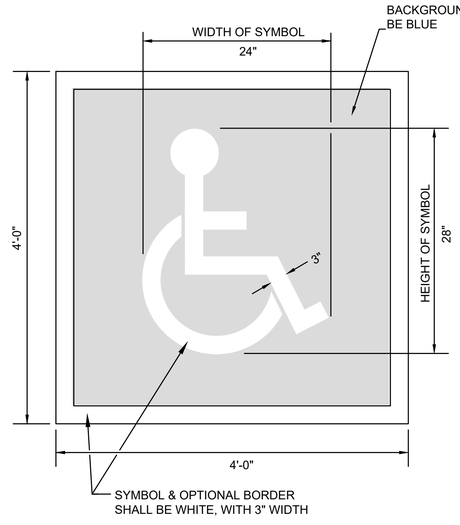
SCALE: N.T.S. DWG: PM-01 DATE: MARCH 2013



ACCESSIBLE PARKING STALL MARKINGS

SCALE: N.T.S.

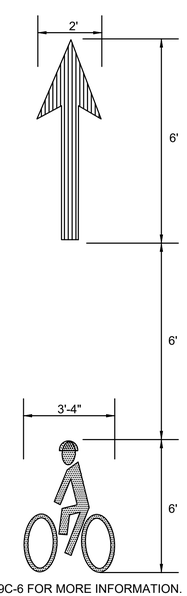
NOTES:
1. SEE MUTCD FIGURE 3B-24 FOR MORE INFORMATION.
2. ONE IN SIX ACCESSIBLE SPOTS SHALL BE "VAN ACCESSIBLE" WITH 8' SPACES AND 8' ACCESS AISLES.
3. R7-8p MOUNTED BELOW R7-8 IN VAN ACCESSIBLE SPOTS.



NOTES:
1. SYMBOL SHALL BE CENTERED IN THE PARKING STALL.
2. ACCESSIBLE MARKINGS SHALL BE REFLECTORIZED PREFORMED THERMOPLASTIC.
3. SEE 2009 MUTCD FIGURE 3B-22 AND THE 2004 STANDARD HIGHWAY SIGNS MANUAL (PAGE 10-22) FOR MORE DETAILS.

ACCESSIBLE PARKING STALL SYMBOL

SCALE: N.T.S.



NOTES:
1. SEE MUTCD FIGURE 9C-6 FOR MORE INFORMATION.
2. BIKE LANE MARKINGS SHALL BE REFLECTORIZED PREFORMED THERMOPLASTIC.

BIKE LANE PAVEMENT MARKINGS

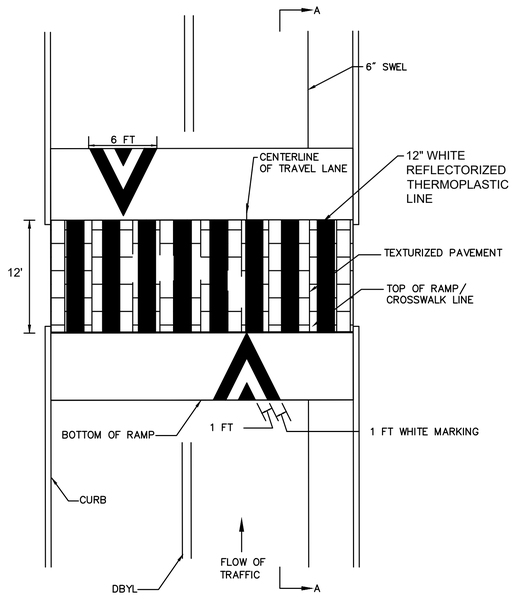
SOUTHBRIDGE
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/HSI-0033(042)X	57	91
PROJECT FILE NO.	608778		

CONSTRUCTION DETAILS

11672.02_HD(DET).DWG Plotted on 28-May-2025 4:02 PM

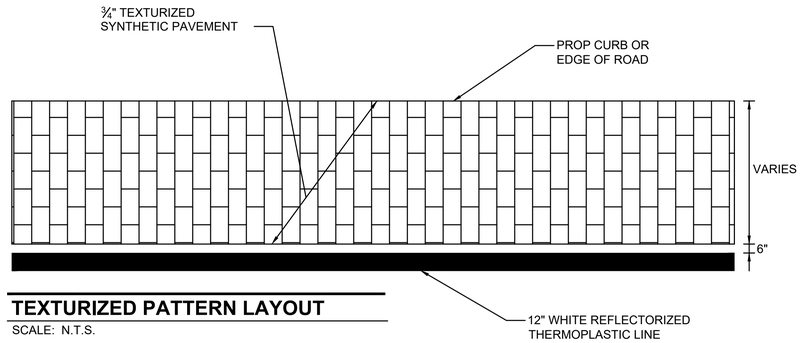
11672.02_HD(DET).DWG Plotted on 28-May-2025 4:02 PM



NOTE: SEE FIGURE 3B-29 IN THE MUTCD FOR MORE DETAIL.

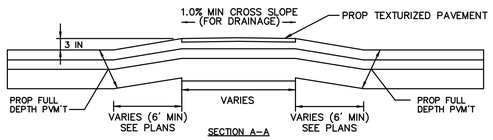
HOT MIX ASPHALT RAISED CROSSWALK AND INTERSECTIONS

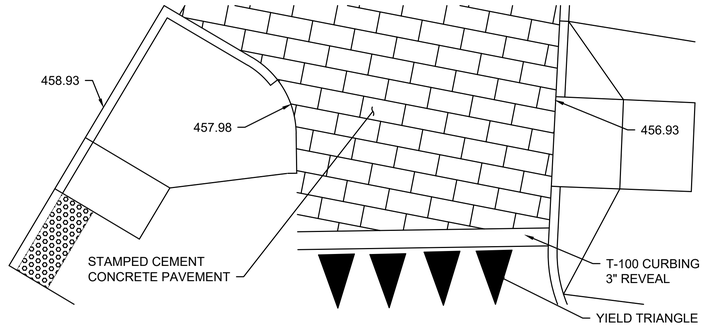
SCALE: N.T.S.



TEXTURIZED PATTERN LAYOUT

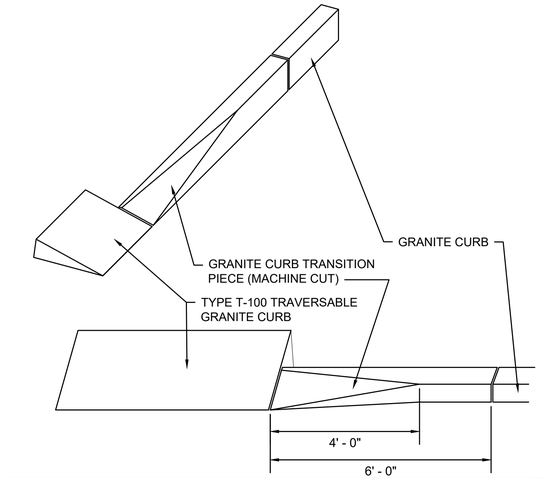
SCALE: N.T.S.





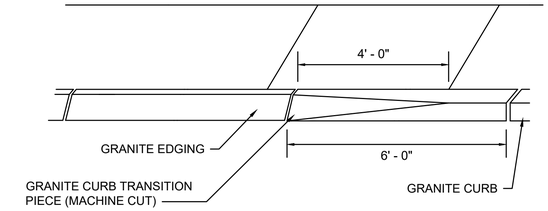
STAMPED CEMENT CONCRETE PAVEMENT RAISED INTERSECTION

SCALE: N.T.S.



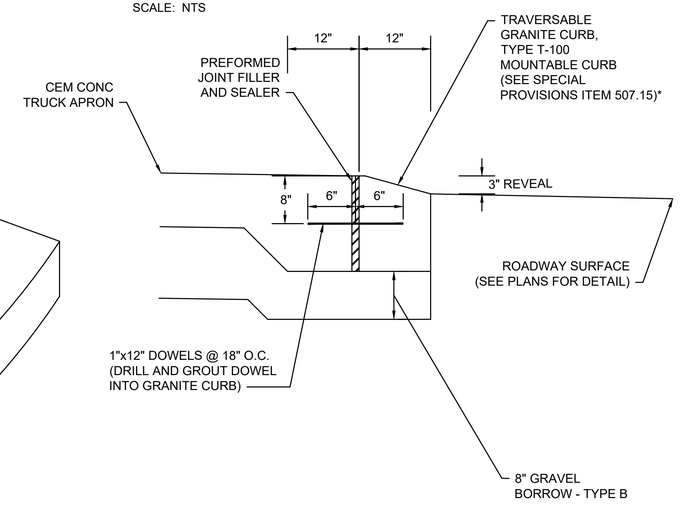
GRANITE CURB SPLAYED END - TYPE T-100

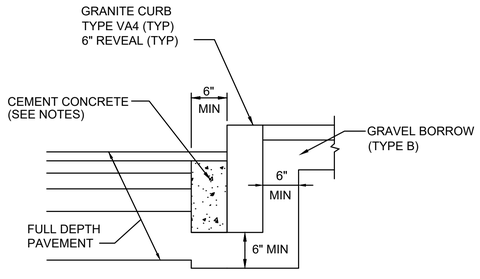
SCALE: NTS



GRANITE CURB SPLAYED END - TYPE VA4

SCALE: NTS

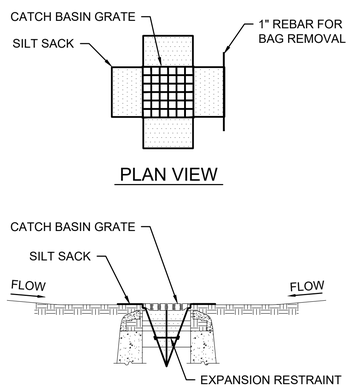




NOTES:
1. TO BE PLACED IF CURB IS INSTALLED AFTER HOT MIX ASPHALT
2. CONCRETE SHALL BE INCLUDED IN PRICE BID FOR GRANITE CURB
3. ANY DESIGNATED CEMENT CONCRETE THAT IS ACCEPTABLE UNDER SECTION M4 OF THE STANDARD SPECIFICATIONS MAY BE USED. ALL TEST REQUIREMENTS ARE WAIVED. HOT MIX ASPHALT SHALL NOT BE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

GRANITE CURB IN PAVEMENT FULL DEPTH

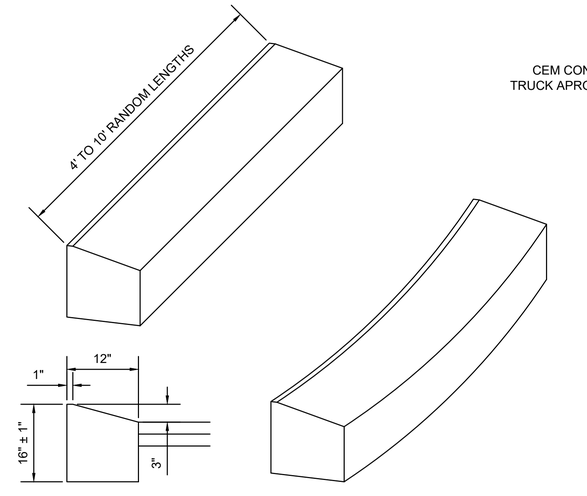
SCALE: N.T.S. DWG: CURB-04 DATE: APRIL 2003



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

INLET PROTECTION - SILT SACK IN CATCH BASIN

SCALE: N.T.S.



TYPE T-100 TRAVERSABLE GRANITE CURB

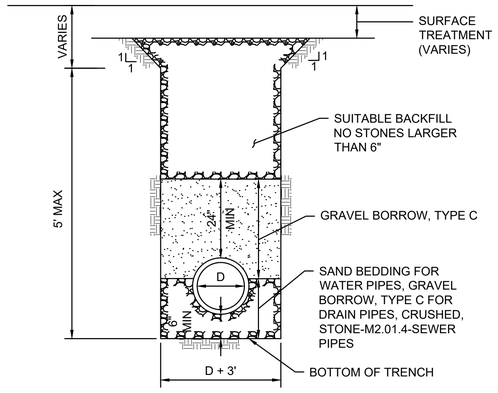
SCALE: NTS

SOUTHBRIDGE
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/HSI-0033(042)X	59	91
PROJECT FILE NO.	608778		

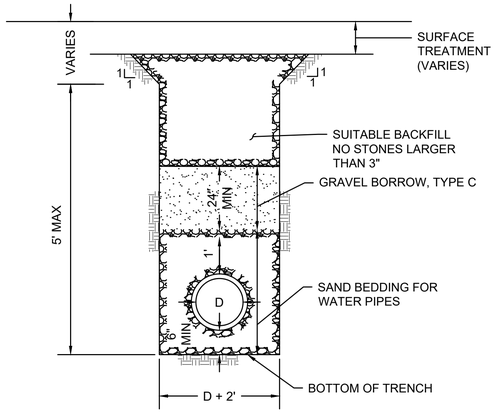
CONSTRUCTION DETAILS

11672.02_HD(DET).DWG Plotted on 28-May-2025 4:02 PM



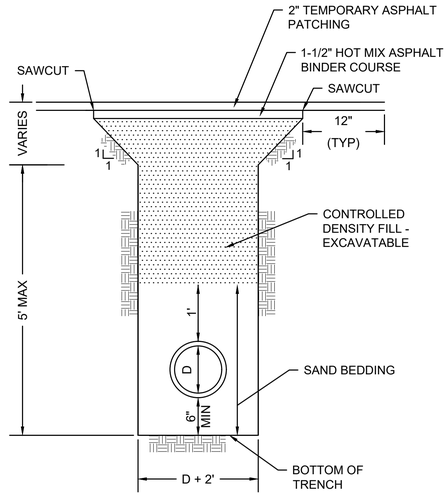
DRAIN TRENCH DETAIL

SCALE: N.T.S. DWG: TRENCH-05 DATE: AUGUST 2018



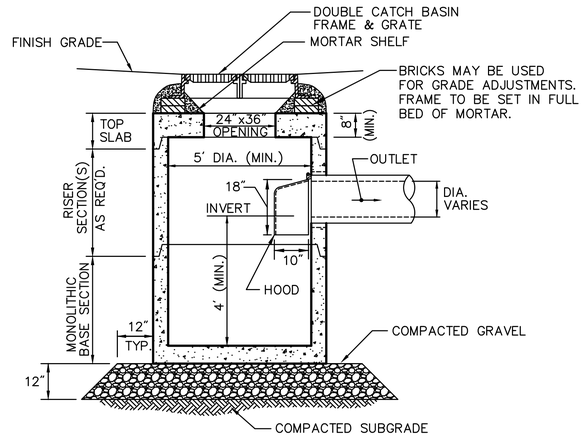
WATER TRENCH DETAIL

SCALE: N.T.S. DWG: TRENCH-05 DATE: AUGUST 2018



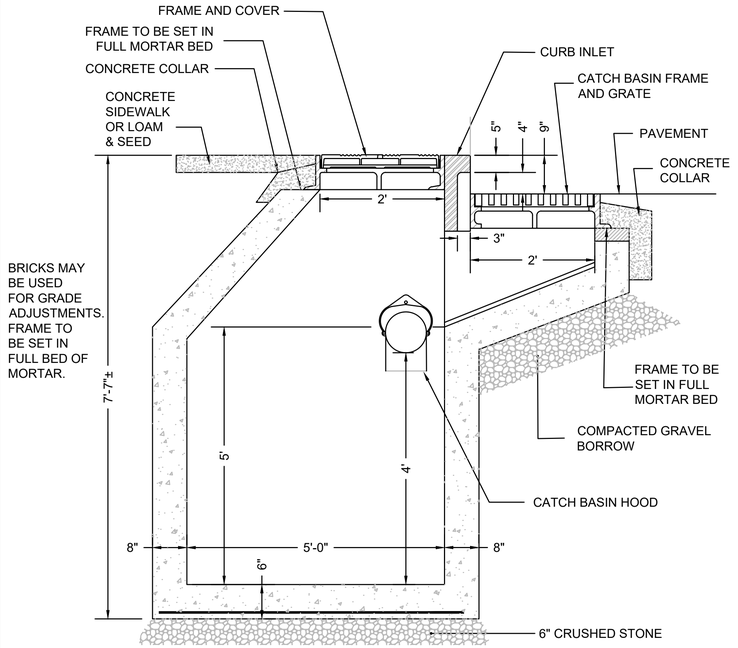
TRENCH DETAIL FOR WATER SERVICE

SCALE: N.T.S. DWG: TRENCH-04 DATE: MARCH 2013



DOUBLE GRATE CATCH BASIN WITH HOOD

SCALE: N.T.S.



SPECIAL CATCH BASIN - TYPE 1

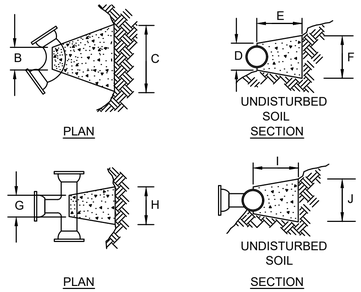
SCALE: N.T.S.

BENDS		B	C	D	E	F
6"	11-1/4°	8"	15"	12"	24"	12"
6"	22-1/2°	"	19"	"	"	13"
8"	11-1/4°	"	20"	"	"	12"
8"	22-1/2°	"	22"	"	"	17"
12"	11-1/4°	"	30"	"	"	15"
12"	22-1/2°	"	35"	"	"	25"

BENDS		B	C	D	E	F
6"	45°	8"	30"	12"	24"	14"
6"	90°	"	30"	"	"	27"
8"	45°	"	30"	"	"	24"
8"	90°	"	38"	"	"	36"
12"	45°	"	40"	"	"	40"
12"	90°	"	60"	"	"	52"

TEES	G	H	I	J
6"x 6"x 6"	12"	24"	24"	18"
8"x 8"x 6"	"	"	"	"
8"x 8"x 8"	"	"	"	24"

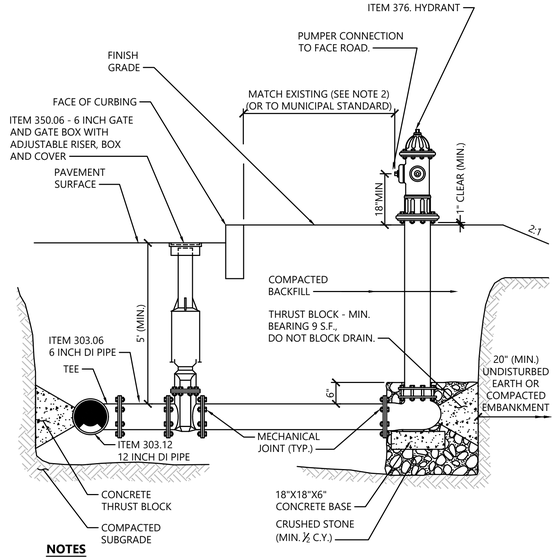
TEES	G	H	I	J
12"x12"x6"	12"	24"	24"	12"
12"x12"x8"	"	"	"	24"
12"x12"x12"	"	36"	"	36"



NOTES:
1. PROVIDE BLOCKS FOR TAPPING SLEEVES, DEAD ENDS, GATE VALVES AND VERTICAL BENDS, SAME SIZE AS REQUIRED FOR TEES.
2. PROVIDE ANCHOR RODS AT VERTICAL BENDS AND GATE VALVES
3. CONCRETE SHALL NOT BE PLACED AGAINST PIPE BEYOND FITTING.

CONCRETE THRUST BLOCK

SCALE: N.T.S. DWG: WS-02 DATE: APRIL 2013



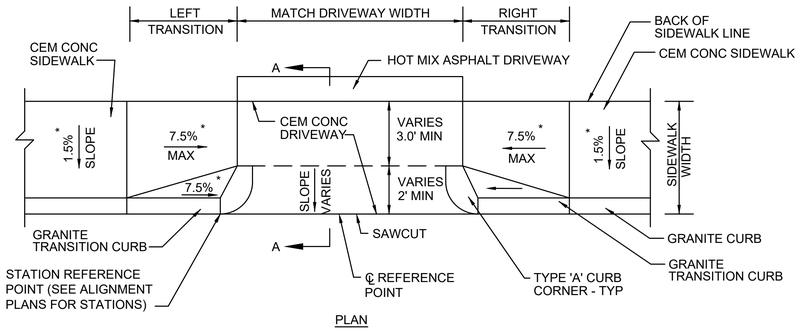
NOTES

1. CONCRETE THRUST BLOCKS TO BE USED ONLY WHERE THEY CAN BEAR ON UNDISTURBED EARTH AS SHOWN. USE CLAMPS AND TIE RODS OR OTHER ACCEPTABLE METHOD OF JOINT RESTRAINT WHERE SOIL CONDITIONS PROHIBIT THE USE OF THRUST BLOCKS.
2. HYDRANT IN SIDEWALK AREAS TO BE LOCATED TO PROVIDE MINIMUM CLEAR SIDEWALK PASSAGE WIDTH OF 3 FEET AT HYDRANT.
3. A 36-INCH CLEAR SPACE SHALL BE MAINTAINED AROUND THE CIRCUMFERENCE OF THE HYDRANT UNLESS OTHERWISE APPROVED BY AUTHORITY HAVING JURISDICTION.

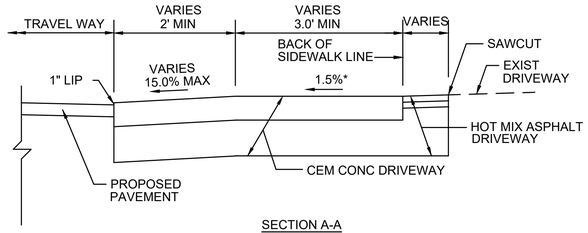
NEW HYDRANT ASSEMBLY

SCALE: N.T.S. DATE: 12/2018

11672.02_HD(DET).DWG Plotted on 28-May-2025 4:02 PM



PLAN



SECTION A-A

*TOLERANCE FOR CONSTRUCTION ±0.5%

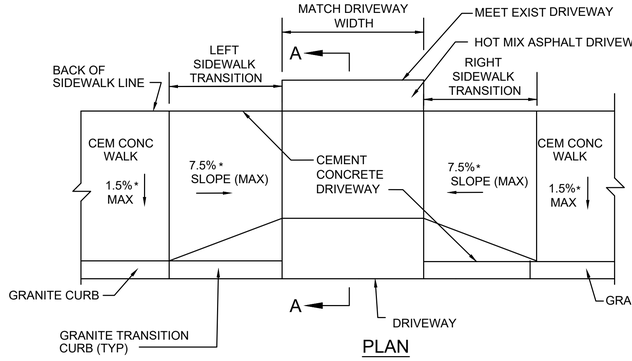
TYPICAL DRIVEWAY WITH SIDEWALK AND CURB CORNERS NO GRASS STRIP

SCALE: N.T.S. DWG: DRIVE-09 DATE: JUNE 2013

DRIVEWAY TRANSITION CHART

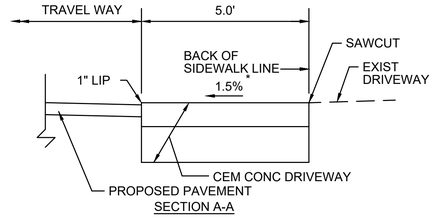
NO.	DRIVEWAY (REFERENCE POINT)	DRIVEWAY WIDTH	SIDEWALK WIDTH AT DRIVEWAY	PATH OF TRAVEL MIN 3'-0"	ROADWAY GUTTER SLOPE	TRANSITION LENGTH				OPENING ELEVATION
						LEFT SIDE	REVEAL	RIGHT SIDE	REVEAL	
HAMILTON STREET										
①	102+62, 13.9' RT	17'-8"	9'-3" TO 14'-2"	9'-1" TO 11'-10"	3.20%	6'-6"	6"	7'-0"	3"	495.37
②	103+01, 22.6' LT	24'-0"	6'-7" TO 13'-9"	5'-8" TO 10'-2"	-3.20%	14'-0"	6"	6'-6"	6"	495.00
④	105+05, 14.0' RT	20'-0"	7'-6" TO 10'-10"	7'-9" TO 8'-11"	-2.80%	11'-0"	6"	3'-3"	3"	493.95
HOOK STREET										
⑥	200+87, 12.0' RT	27'-10"	5'-6"	3'-4"	7.07%	6'-6"	6"	15'-0"	6"	479.06
⑧	201+22, 12.0' LT	59'-1"	5'-6"	4'-0"	-5.36%	15'-0"	6"	6'-6"	6"	477.76
⑨	201+97, 12.0' LT	29'-8"	5'-6"	4'-0"	-1.99%	9'-0"	6"	6'-6"	6"	474.52
⑫	203+33, 12.0' RT	13'-1"	5'-6" TO 17'-4"	4'-0"	4.39%	6'-6"	6"	15'-0"	6"	468.95
CENTRAL STREET										
⑬	504+97, 16.0' LT	25'-0"	6'-0"	4'-0"	-5.01%	15'-0"	6"	6'-6"	6"	465.82
⑭	504+60, 16.0' RT	35'-0"	5'-6"	3'-6"	5.29%	6'-6"	6"	15'-0"	6"	467.56
⑮	504+49, 16.0' LT	18'-0"	6'-0"	4'-0"	-4.30%	15'-0"	6"	6'-6"	6"	468.02
⑯	502+39, 16.0' RT	14'-10"	7'-3" TO 7'-6"	5'-6"	4.30%	6'-6"	6"	15'-0"	6"	477.09
⑰	501+63, 17.7' LT	25'-7"	5'-6" TO 9'-6"	6'-1" TO 7'-9"	-3.15%	14'-0"	6"	6'-6"	6"	480.15
⑱	501+75, 15.7' RT	11'-10"	7'-1" TO 7'-6"	5'-0" TO 5'-3"	3.58%	6'-6"	6"	14'-0"	6"	479.78
㉑	501+19, 14.7' RT	19'-2"	7'-7" TO 7'-10"	5'-9"	3.33%	6'-6"	6"	14'-0"	6"	479.78

NOTE:
- NEGATIVE (-) ROADWAY GUTTER DENOTES A LOW SIDE TRANSITION.
- DRIVE AT 102+00 LT INTENDED TO BE REBUILT IN PLACE



PLAN

*TOLERANCE FOR CONSTRUCTION ±0.5%



SECTION A-A

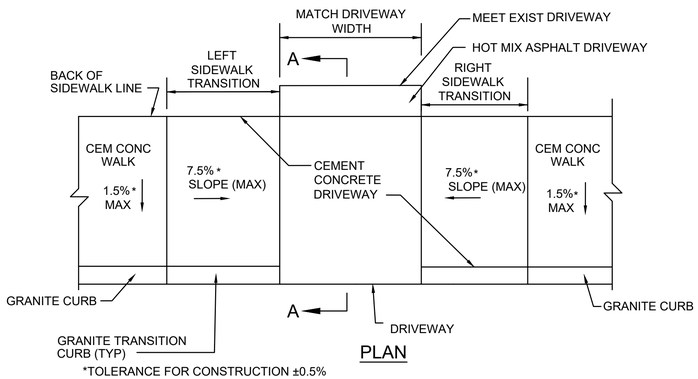
TYPICAL DRIVEWAY WITH SIDEWALK

SCALE: N.T.S. DWG: DRIVE-09 DATE: JUNE 2013

DRIVEWAY TRANSITION CHART

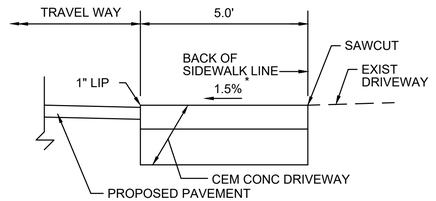
NO.	DRIVEWAY (REFERENCE POINT)	DRIVEWAY WIDTH	SIDEWALK WIDTH AT DRIVEWAY	PATH OF TRAVEL MIN 3'-0"	ROADWAY GUTTER SLOPE	TRANSITION LENGTH				OPENING ELEVATION
						LEFT SIDE	REVEAL	RIGHT SIDE	REVEAL	
LAROCHELLE WAY										
⑩	302+48, 16.0' RT	23'-7"	5'-6"	5'-6"	-2.69%	6'-6"	6"	11'-0"	6"	477.20
FOSTER STREET										
⑲	403+40, 15.0' RT	25'-0"	5'-6"	5'-6"	-4.60%	3'-3"	3"	7'-5"	3"	465.03

NOTE: NEGATIVE (-) ROADWAY GUTTER DENOTES A LOW SIDE TRANSITION.



PLAN

*TOLERANCE FOR CONSTRUCTION ±0.5%



SECTION A-A

TYPICAL DRIVEWAY WITH SIDEWALK

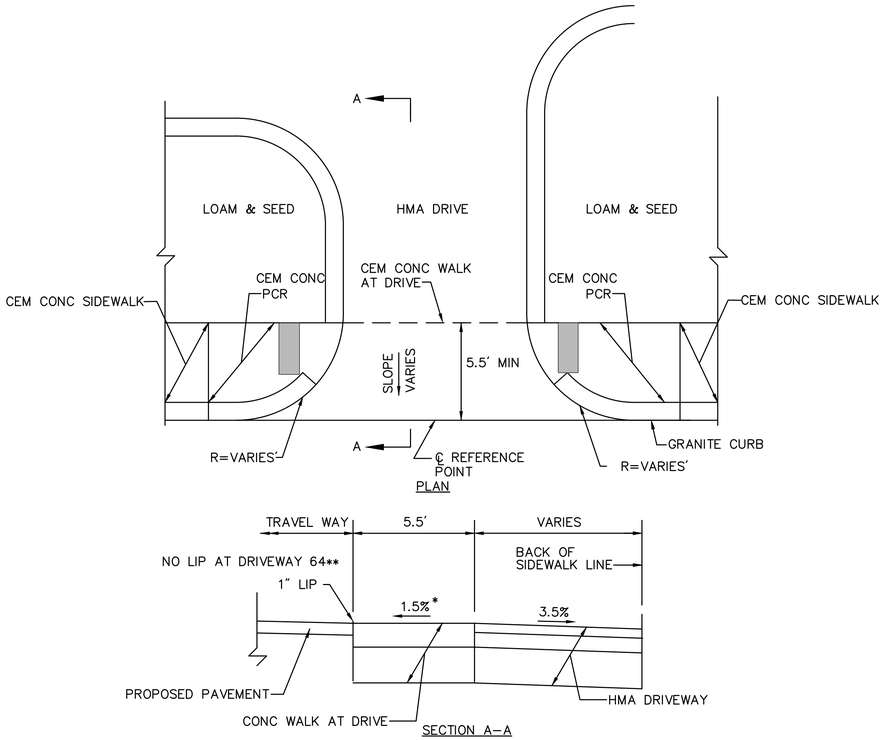
SCALE: N.T.S. DWG: DRIVE-09 DATE: JUNE 2013

DRIVEWAY TRANSITION CHART

NO.	DRIVEWAY (REFERENCE POINT)	DRIVEWAY WIDTH	SIDEWALK WIDTH AT DRIVEWAY	PATH OF TRAVEL MIN 3'-0"	ROADWAY GUTTER SLOPE	TRANSITION LENGTH				OPENING ELEVATION
						LEFT SIDE	REVEAL	RIGHT SIDE	REVEAL	
HOOK STREET										
⑪	203+07, 12.0' LT	49'-1"	5'-6"	4'-8" TO 5'-6"	-6.47%	15'-0"	6"	6'-6"	6"	470.37
CENTRAL STREET										
㉔	506+61, 15.2' LT	34'-9"	6'-6"	6'-6"	-5.55%	15'-0"	6"	3'-3"	3"	457.08

NOTE: NEGATIVE (-) ROADWAY GUTTER DENOTES A LOW SIDE TRANSITION.

11672.02_HD(DET).DWG Plotted on 28-May-2025 4:02 PM

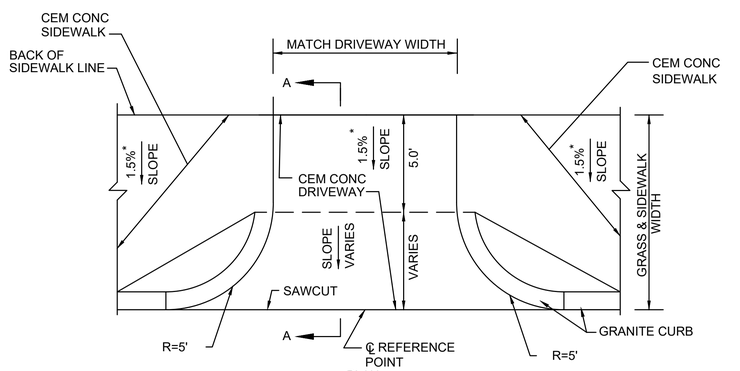


TYPICAL DRIVEWAY WITH SIDEWALK AND CURVED TRANSITION CURB AND GRASS STRIP

SCALE: N.T.S. DWG: DRIVE-09 DATE: JUNE 2013

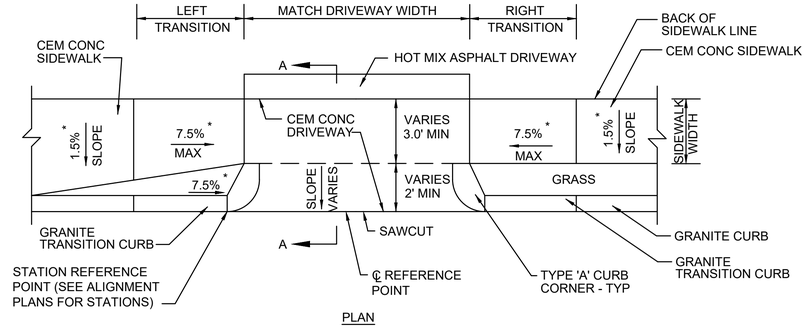
DRIVEWAY TRANSITION CHART						
NO.	DRIVEWAY (REFERENCE POINT)	DRIVEWAY WIDTH	SIDEWALK WIDTH AT DRIVEWAY	PATH OF TRAVEL MIN 3'-0"	ROADWAY GUTTER SLOPE	OPENING ELEVATION
LAROCHELLE WAY						
(20)	302+48, 16.0' LT	32'-8"	5'-10"	5'-10"	-2.60%	477.18

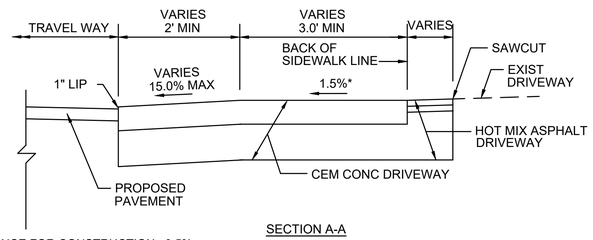
NOTE: NEGATIVE (-) ROADWAY GUTTER DENOTES A LOW SIDE TRANSITION.



TYPICAL DRIVEWAY WITH SIDEWALK AND CURVED TRANSITION CURB AND GRASS STRIP

SCALE: N.T.S. DWG: DRIVE-09 DATE: JUNE 2013





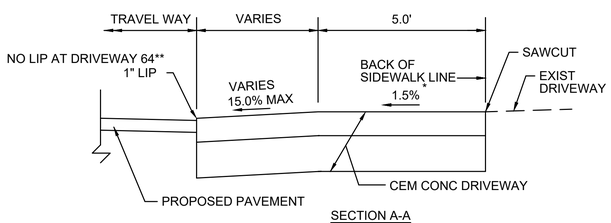
*TOLERANCE FOR CONSTRUCTION ±0.5%

DRIVEWAY DETAIL AT STATION 104+32

SCALE: N.T.S. DWG: DRIVE-09 DATE: JUNE 2013

DRIVEWAY TRANSITION CHART										
NO.	DRIVEWAY (REFERENCE POINT)	DRIVEWAY WIDTH	SIDEWALK WIDTH AT DRIVEWAY	PATH OF TRAVEL MIN 3'-0"	ROADWAY GUTTER SLOPE	TRANSITION LENGTH				OPENING ELEVATION
						LEFT SIDE	REVEAL	RIGHT SIDE	REVEAL	
(3)	104+32, 24.3' LT	21'-10"	7'-0" TO 7'-6"	4'-2" TO 8'-0"	1.95%	15'-0"	6"	10'-0"	6"	493.13

NOTE: NEGATIVE (-) ROADWAY GUTTER DENOTES A LOW SIDE TRANSITION.



DRIVEWAY TRANSITION CHART										
NO.	DRIVEWAY (REFERENCE POINT)	DRIVEWAY WIDTH	SIDEWALK WIDTH AT DRIVEWAY	PATH OF TRAVEL MIN 3'-0"	ROADWAY GUTTER SLOPE	TRANSITION LENGTH				OPENING ELEVATION
						LEFT SIDE	REVEAL	RIGHT SIDE	REVEAL	
HOOK STREET										
(7)	201+60, 12.0' RT	34'-8"	5'-6"	3'-4"	3.62%	6'-6"	6"	14'-0"	6"	475.48

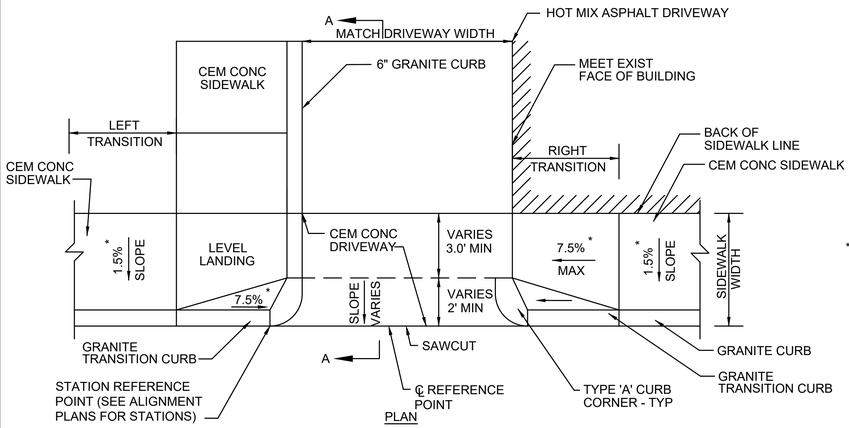
NOTE: NEGATIVE (-) ROADWAY GUTTER DENOTES A LOW SIDE TRANSITION.

SOUTHBRIDGE
INTERSECTION IMPROVEMENTS

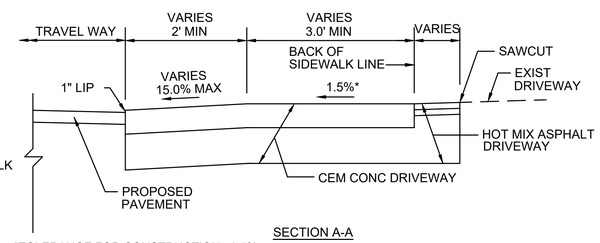
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/HSI-0033(042)X	62	91
PROJECT FILE NO.	608778		

CONSTRUCTION DETAILS

11672.02_HD(DET).DWG Plotted on 28-May-2025 4:02 PM

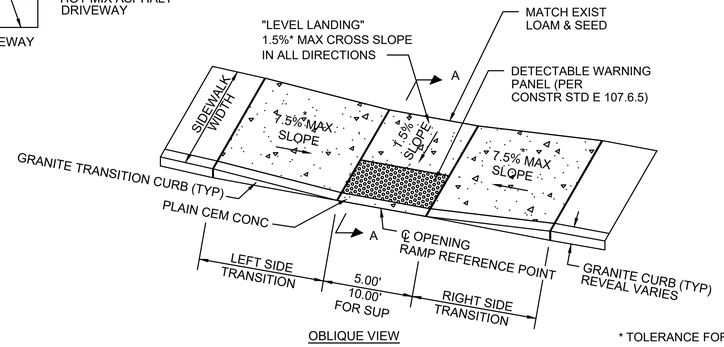


PLAN

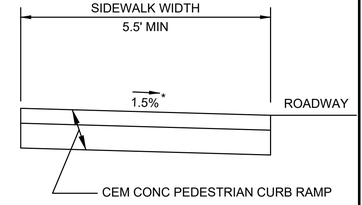


SECTION A-A

*TOLERANCE FOR CONSTRUCTION ±0.5%



OBLIQUE VIEW



SECTION A-A

* TOLERANCE FOR CONSTRUCTION ±0.5%

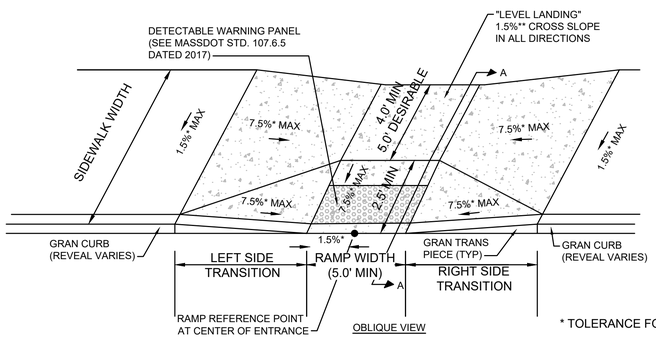
NOTE: NEGATIVE (-) ROADWAY GUTTER DENOTES A LOW SIDE TRANSITION.

TYPICAL DRIVEWAY WITH SIDEWALK AND CURB CORNERS NO GRASS STRIP

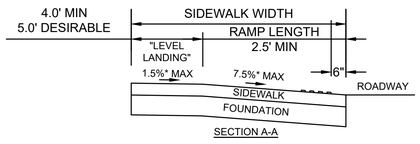
SCALE: N.T.S. DWG: DRIVE-09 DATE: JUNE 2013

DRIVEWAY TRANSITION CHART

NO.	DRIVEWAY (REFERENCE POINT)	DRIVEWAY WIDTH	SIDEWALK WIDTH AT DRIVEWAY	PATH OF TRAVEL MIN 3'-0"	ROADWAY GUTTER SLOPE	TRANSITION LENGTH				OPENING ELEVATION
						LEFT SIDE	REVEAL	RIGHT SIDE	REVEAL	
HAMILTON STREET										
(5)	103+16, 34.1' RT	28'-4"	8'-0" TO 15'-0"	6'-0"	1.65%	7'-6"	6"	15'-0"	6"	492.96
(22)	102+00, 17.4' LT	10'-10"	8'-8" TO 9'-8"	6'-11" TO 7'-4"	2.36%	-	-	6'-6"	6"	497.54



OBLIQUE VIEW



SECTION A-A

* TOLERANCE FOR CONSTRUCTION ±0.5%

PEDESTRIAN CURB RAMP - 6.50' TO 12.50' WIDTH

SCALE: N.T.S.

PEDESTRIAN CURB RAMP DATA

NO.	LOCATION (REFERENCE POINT)	LEFT SIDE			RIGHT SIDE			SIDEWALK WIDTH	RAMP WIDTH	OPENING ELEVATION
		ROADWAY GUTTER	REVEAL	TRANS	ROADWAY GUTTER	REVEAL	TRANS			
HAMILTON STREET										
2	102+39, 12.2 RT	3.20%	3"	3'-3"	3.20%	6"	14'-0"	3'-2"	5'-0"	496.13

NOTE:

1. NEGATIVE (-) ROADWAY GUTTER DENOTES A LOW SIDE TRANSITION.
2. TRANSITION LENGTH MEASURED AT BACK OF WALK

PEDESTRIAN CURB RAMP - "T" INTERSECTION

SCALE: N.T.S.

PEDESTRIAN CURB RAMP DATA

NO.	LOCATION (REFERENCE POINT)	LEFT SIDE			RIGHT SIDE			SIDEWALK WIDTH	OPENING ELEVATION
		ROADWAY GUTTER	REVEAL	TRANS	ROADWAY GUTTER	REVEAL	TRANS		
HAMILTON STREET									
4	104+65, 15.6' RT	2.80%	3"	11'-0"	2.80%	6"	6'-6"	7'-9" TO 10'-11"	492.79
LAROCHELLE WAY									
5	300+72, 18.1' RT	6.04%	6"	6'-6"	6.04%	6"	15'-0"	5'-6" TO 8'-0"	488.72
6	300+72, 12.4' LT	-6.04%	6"	15'-0"	-6.04%	6"	6'-6"	6'-3" TO 10'-11"	488.87
19	304+01, 19.1' LT	-2.00%	6"	11'-0"	-2.00%	6"	6'-6"	6'-0"	474.39
20	304+01, 27.0' RT	2.00%	6"	6'-6"	2.00%	6"	11'-0"	5'-6"	474.73
HOOK STREET									
7	200+21, 16.5' LT	-4.25%	6"	15'-0"	-4.25%	6"	6'-6"	5'-6" TO 7'-9"	485.60
8	200+28, 17.0' RT	4.75%	6"	6'-6"	-4.75%	6"	15'-0"	5'-6"	482.29
9	202+54, 12.0' LT	-3.80%	3"	7'-0"	-3.80%	3"	3'-3"	5'-6"	473.98
10	202+54, 12.0' RT	3.80%	3"	3'-3"	3.80%	3"	7'-0"	5'-6"	473.98
CENTRAL STREET									
13	507+00, 14.6' LT	-5.55%	3"	15'-0"	-5.55%	6"	6'-6"	6'-6"	454.87
16	503+92, 16.2' RT	5.53%	6"	6'-6"	5.53%	6"	15'-0"	5'-6"	470.50
31	502+74, 20.4' LT	-4.28%	6"	15'-0"	-4.28%	6"	6'-6"	5'-6"	475.54
32	502+74, 16.0' RT	4.28%	3"	3'-3"	4.28%	6"	15'-0"	7'-6"	475.49
FOSTER STREET									
29	402+49, 17.9' LT	2.19%	6"	11'-0"	-2.19%	6"	6'-6"	5'-6"	468.48
30	402+48, 15.0' RT	2.15%	3"	3'-3"	-2.15%	6"	11'-0"	5'-6"	468.57
NORTH STREET									
26	404+89, 15.0 LT	-7.57%	6"	15'-0"	-6.75%	6"	6'-6"	5'-6" TO 16'-0"	457.98
28	404+89, 15.9' RT	6.80%	6"	6'-6"	11.00%	6"	15'-0"	5'-6"	457.66

NOTE:

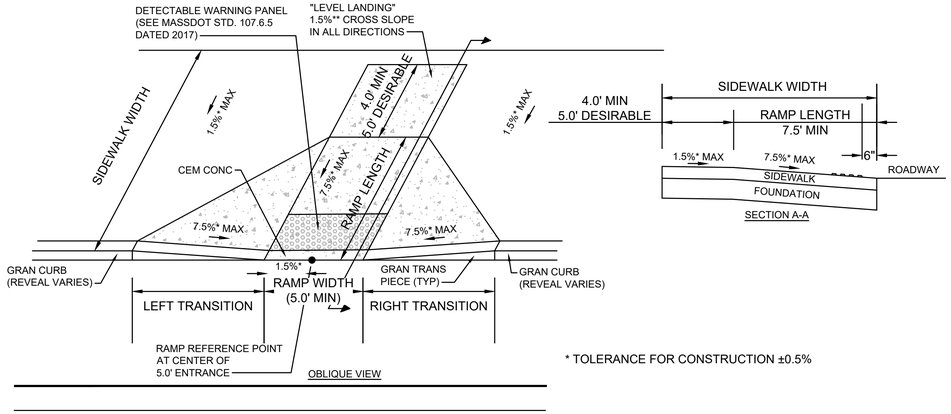
1. NEGATIVE (-) ROADWAY GUTTER DENOTES A LOW SIDE TRANSITION.
2. TRANSITION LENGTH MEASURED AT BACK OF WALK

SOUTHBRIDGE
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/HSI-0033(042)X	63	91
PROJECT FILE NO.	608778		

CONSTRUCTION DETAILS

11672.02_HD(DET).DWG Plotted on 28-May-2025 4:02 PM

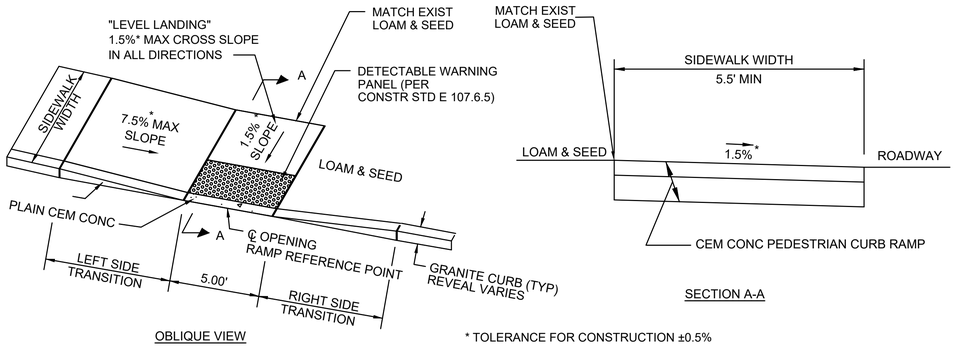


* TOLERANCE FOR CONSTRUCTION ±0.5%

PEDESTRIAN CURB RAMP DATA											
NO.	LOCATION (REFERENCE POINT)	LEFT SIDE			RIGHT SIDE			RAMP LENGTH	SIDEWALK WIDTH	RAMP WIDTH	OPENING ELEVATION
		ROADWAY GUTTER	REVEAL	TRANS	ROADWAY GUTTER	REVEAL	TRANS				
HAMILTON STREET											
1	102+35, 14.0 LT	-3.20%	6"	14'-0"	-3.20%	6"	6'-6"	8'-6"	9'-5" TO 13'-9"	5'-0"	496.28
CENTRAL STREET											
15	503+92, 16.0' LT	-5.53%	3"	7'-6"	-5.53%	6"	6'-6"	7'-6"	12'-5"	5'-0"	470.56
LAROCHELLE WAY											
21	304+32, 33.6' LT	-2.48%	6"	11'-0"	-2.48%	3"	3'-3"	7'-6"	12'-5"	10'-0"	472.04

NOTE:

1. NEGATIVE (-) ROADWAY GUTTER DENOTES A LOW SIDE TRANSITION.
2. TRANSITION LENGTH MEASURED AT BACK OF WALK



* TOLERANCE FOR CONSTRUCTION ±0.5%

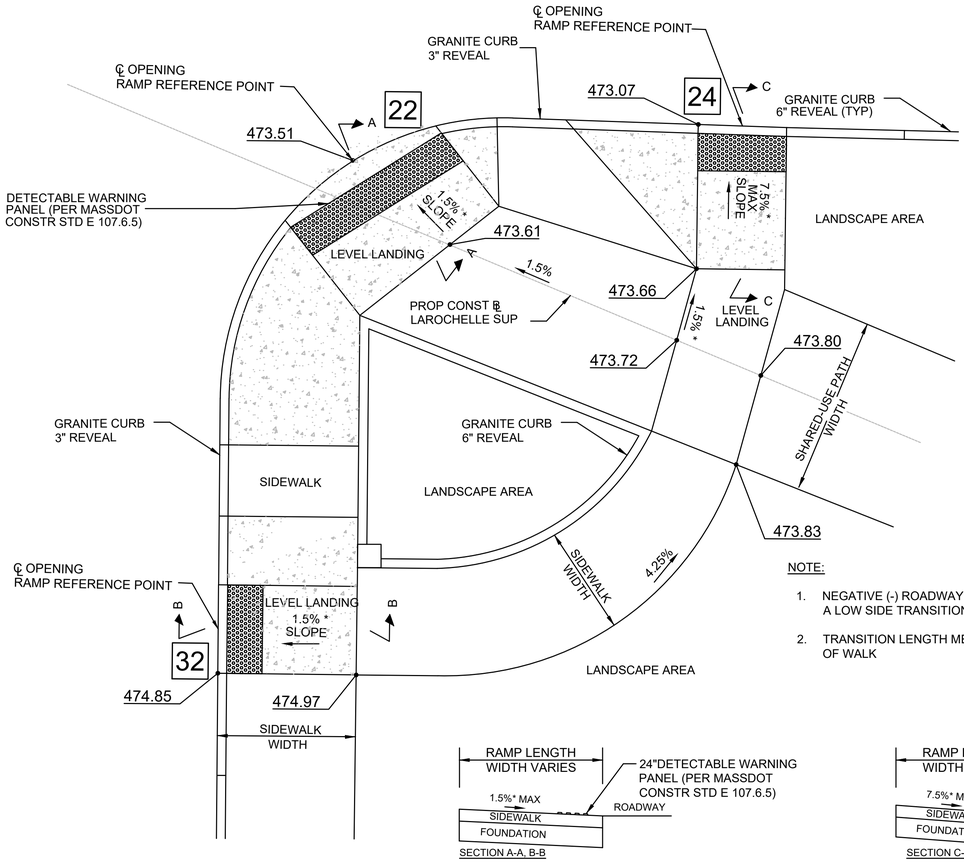
PEDESTRIAN CURB RAMP - "T" INTERSECTION GRASS ADJACENT ONE SIDE

SCALE: N.T.S.

PEDESTRIAN CURB RAMP DATA									
NO.	LOCATION (REFERENCE POINT)	LEFT SIDE			RIGHT SIDE			SIDEWALK WIDTH	OPENING ELEVATION
		ROADWAY GUTTER	REVEAL	TRANS	ROADWAY GUTTER	REVEAL	TRANS		
LAROCHELLE WAY									
23	305+01, 14.6 LT	-3.09%	6"	6'-6"	-4.50%	6"	14'-0"	5'-6"	473.05
CENTRAL STREET									
14	506+99, 16.0' RT	5.55%	--	--	5.55%	6"	15'-0"	5'-6"	455.26

NOTE:

1. NEGATIVE (-) ROADWAY GUTTER DENOTES A LOW SIDE TRANSITION.
2. TRANSITION LENGTH MEASURED AT BACK OF WALK



NOTE:

1. NEGATIVE (-) ROADWAY GUTTER DENOTES A LOW SIDE TRANSITION.
2. TRANSITION LENGTH MEASURED AT BACK OF WALK

* TOLERANCE FOR CONSTRUCTION ±0.5%

PEDESTRIAN CURB RAMP - CORNER OF CENTRAL STREET AND LAROCHELLE WAY

SCALE: N.T.S.

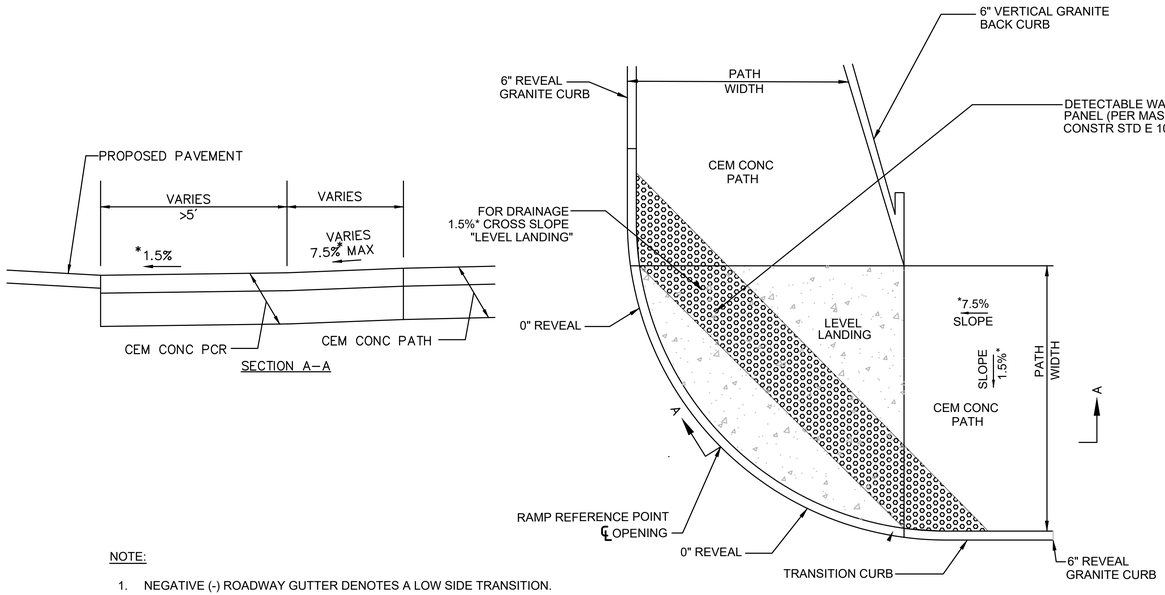
PEDESTRIAN CURB RAMP DATA										
NO.	LOCATION (REFERENCE POINT)	LEFT SIDE			RIGHT SIDE			SIDEWALK WIDTH	RAMP WIDTH	OPENING ELEVATION
		ROADWAY GUTTER	REVEAL	TRANS	ROADWAY GUTTER	REVEAL	TRANS			
LAROCHELLE WAY										
22	304+81, 24.3 RT	-3.00%	3"	3'-0"	-2.00%	6"	11'-0"	VARIES	10'-0"	473.51
24	305+03, 20.2 RT	-3.00%	6"	11'-0"	-3.00%	3"	7'-0"	VARIES	5'-0"	472.97
CENTRAL STREET										
32	502+74, 15.9 RT	-4.20%	3"	3'-0"	-4.20%	6"	15'-0"	VARIES	5'-0"	474.75

SOUTHBRIDGE
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/HSI-0033(042)X	64	91
PROJECT FILE NO.	608778		

CONSTRUCTION DETAILS

11672.02_HD(DET).DWG Plotted on 28-May-2025 4:02 PM



NOTE:

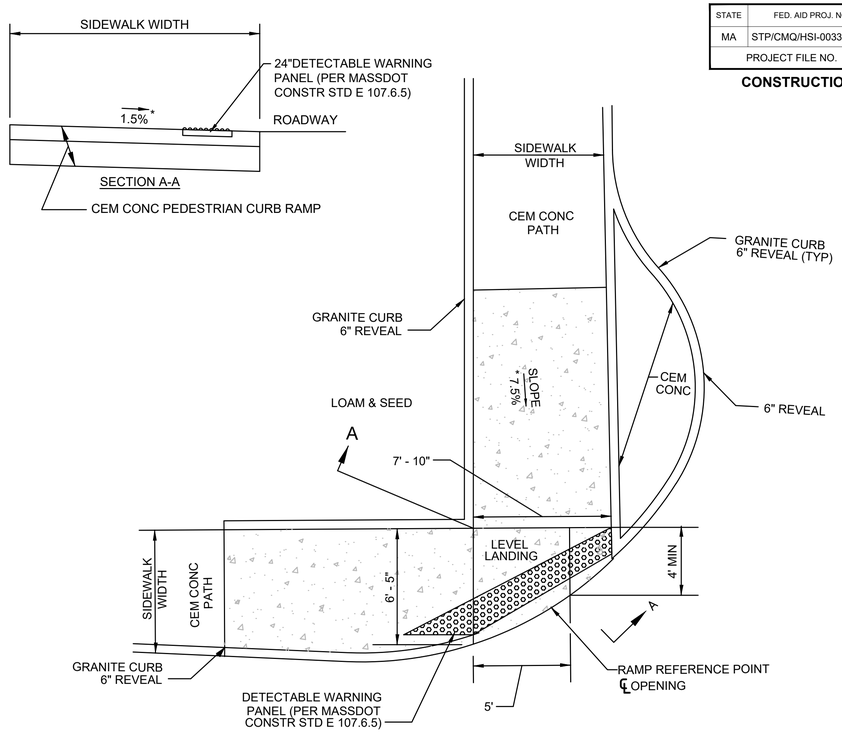
1. NEGATIVE (-) ROADWAY GUTTER DENOTES A LOW SIDE TRANSITION.
2. TRANSITION LENGTH MEASURED AT BACK OF WALK

SCALE: N.T.S.

PEDESTRIAN CURB RAMP - "T" INTERSECTION GRASS ADJACENT ONE SIDE

PEDESTRIAN CURB RAMP DATA									
NO.	LOCATION (REFERENCE POINT)	LEFT SIDE			RIGHT SIDE			SIDEWALK WIDTH	OPENING ELEVATION
		ROADWAY GUTTER	REVEAL	TRANS	ROADWAY GUTTER	REVEAL	TRANS		
CENTRAL STREET									
11	505+77, 18.7 LT	-8.56%	6"	15'-0"	-5.67%	6"	6'-6"	5'-6" TO 10'-6"	461.47

*TOLERANCE FOR CONSTRUCTION ±0.5%



*TOLERANCE FOR CONSTRUCTION ±0.5%

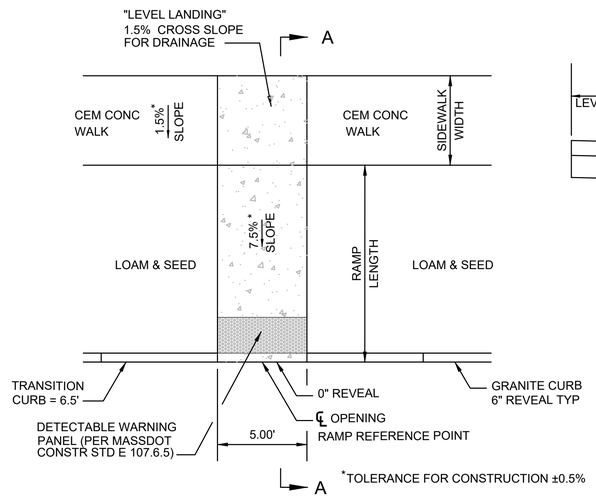
SCALE: N.T.S.

PEDESTRIAN CURB RAMP - CORNER OF HOOK STREET AND CENTRAL STREET

PEDESTRIAN CURB RAMP DATA									
NO.	LOCATION (REFERENCE POINT)	LEFT SIDE			RIGHT SIDE			SIDEWALK WIDTH	OPENING ELEVATION
		ROADWAY GUTTER	REVEAL	TRANS	ROADWAY GUTTER	REVEAL	TRANS		
CENTRAL STREET									
12	505+46, 19.5 LT	-4.00%	6"	15'-0"	3.28%	6"	-	6'-0" TO 7'-10"	463.32

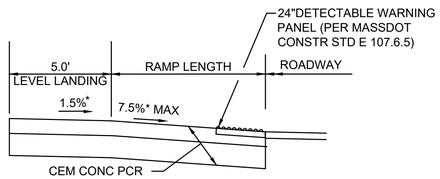
NOTE:

1. NEGATIVE (-) ROADWAY GUTTER DENOTES A LOW SIDE TRANSITION.
2. TRANSITION LENGTH MEASURED AT BACK OF WALK



PEDESTRIAN CURB RAMP - WITH GRASS STRIP WITHOUT SIDE TRANSITIONS

SCALE: N.T.S.



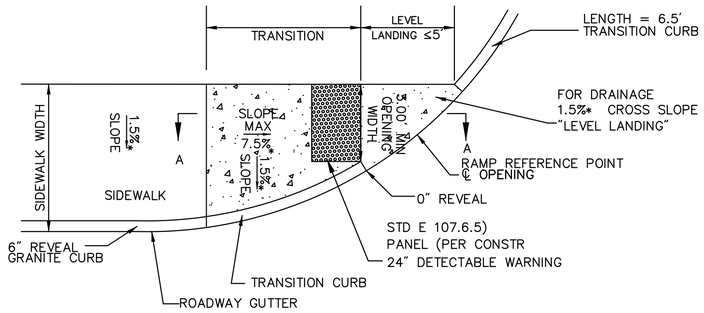
SECTION A-A

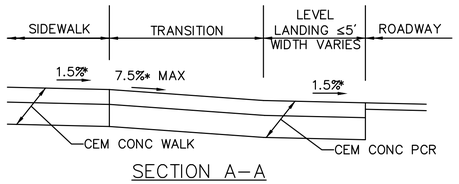
PEDESTRIAN CURB RAMP DATA						
NO.	LOCATION (REFERENCE POINT)	ROADWAY GUTTER	RAMP LENGTH	RAMP WIDTH	SIDEWALK WIDTH	OPENING ELEVATION
HAMILTON STREET						
3	104+62, 14.4 LT	3.75%	10'-6"	5'-0"	7'-0"	493.08

NOTE:

1. NEGATIVE (-) ROADWAY GUTTER DENOTES A LOW SIDE TRANSITION.

11672.02_HD(DET).DWG Plotted on 28-May-2025 4:02 PM





SECTION A–A

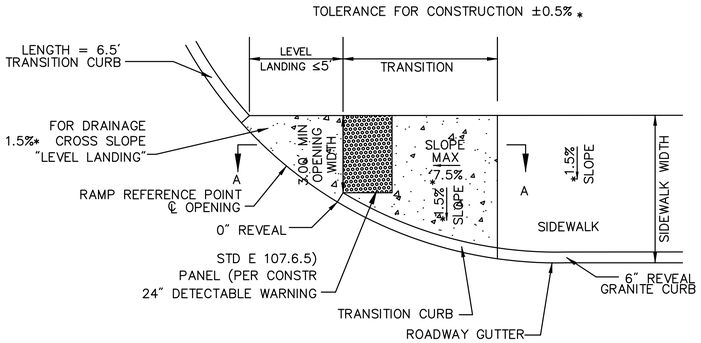
PEDESTRIAN CURB RAMP - SINGLE DIRECTION

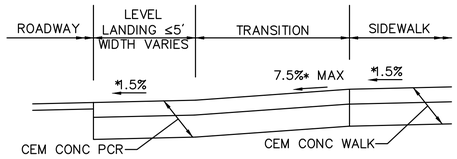
SCALE: N.T.S.

PEDESTRIAN CURB RAMP DATA									
NO.	LOCATION (REFERENCE POINT)	LEFT SIDE			RIGHT SIDE			SIDEWALK WIDTH	OPENING ELEVATION
		ROADWAY GUTTER	REVEAL	TRANS	ROADWAY GUTTER	REVEAL	TRANS		
LAROCHELLE WAY									
17	301+36, 19.5 LT	-3.70%	6"	14'-0"	-3.22%	6"	6'-6"	5'-6"	461.46

NOTE:

1. NEGATIVE (-) ROADWAY GUTTER DENOTES A LOW SIDE TRANSITION.
2. TRANSITION LENGTH MEASURED AT BACK OF WALK





SECTION A–A

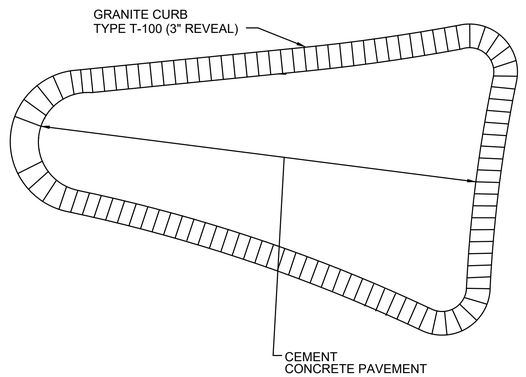
PEDESTRIAN CURB RAMP - SINGLE DIRECTION

SCALE: N.T.S.

PEDESTRIAN CURB RAMP DATA									
NO.	LOCATION (REFERENCE POINT)	LEFT SIDE			RIGHT SIDE			SIDEWALK WIDTH	OPENING ELEVATION
		ROADWAY GUTTER	REVEAL	TRANS	ROADWAY GUTTER	REVEAL	TRANS		
LAROCHELLE WAY									
18	302+59, 20.1 LT	-1.02%	6"	6'-6"	-1.70%	6"	9'-0"	6'-0"	477.03

NOTE:

1. NEGATIVE (-) ROADWAY GUTTER DENOTES A LOW SIDE TRANSITION.
2. TRANSITION LENGTH MEASURED AT BACK OF WALK



MOUNTABLE CEMENT CONCRETE ISLAND

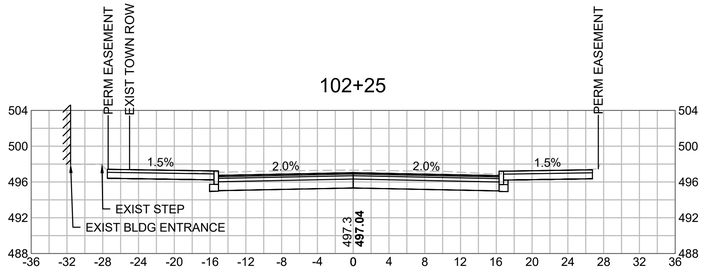
SCALE: N.T.S.

SOUTHBRIDGE
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP/CMQ/HSI-0033(042)X	66	91
PROJECT FILE NO. 608778			

CROSS SECTIONS
HAMILTON ST

11672.02_HD(XSEC_HAMILTON).DWG Plotted on 28-May-2025 4:03 PM



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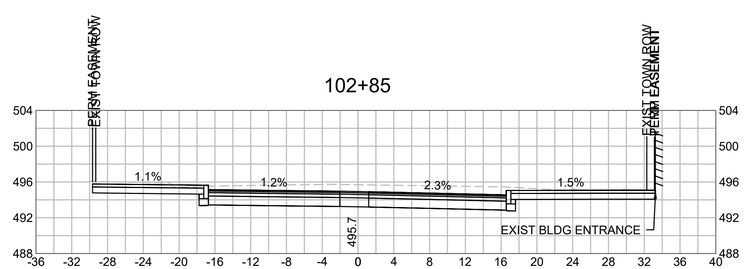
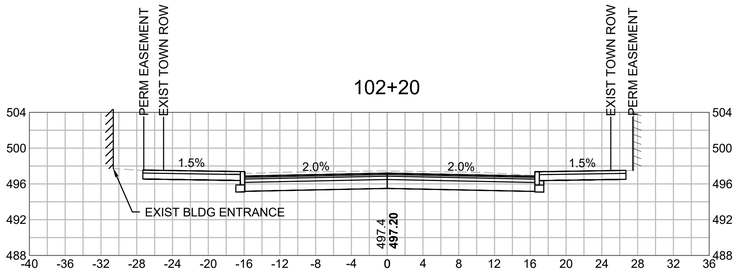
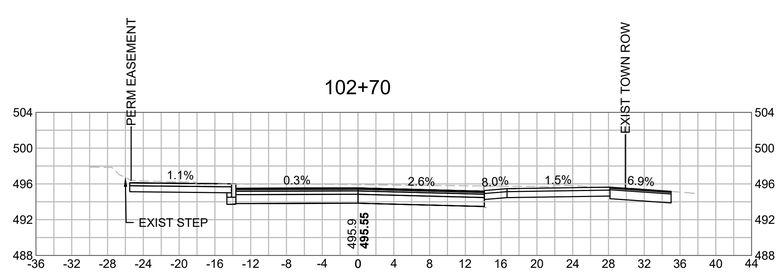
GROUND FILL: 0.00 SF



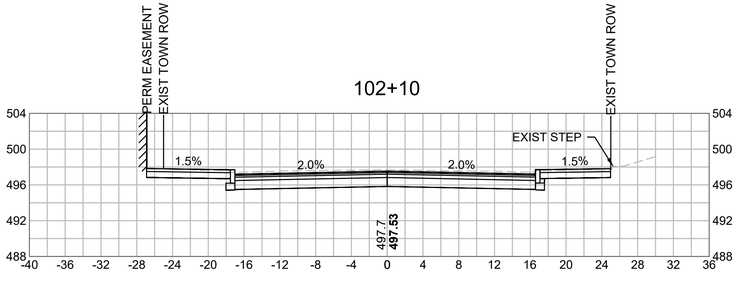
GROUND REMOVED: 109.37 SF
GROUND FILL: 0.00 SF



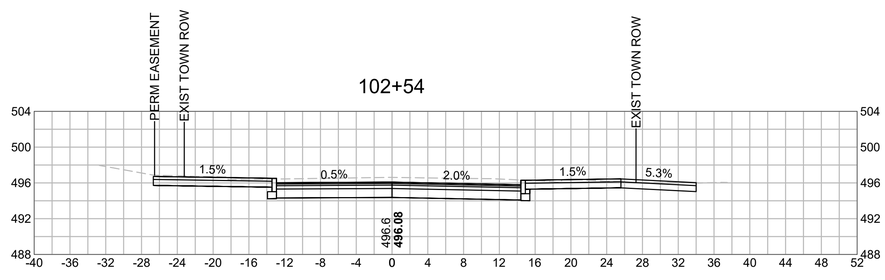
GROUND REMOVED: 87.05 SF
GROUND FILL: 0.00 SF



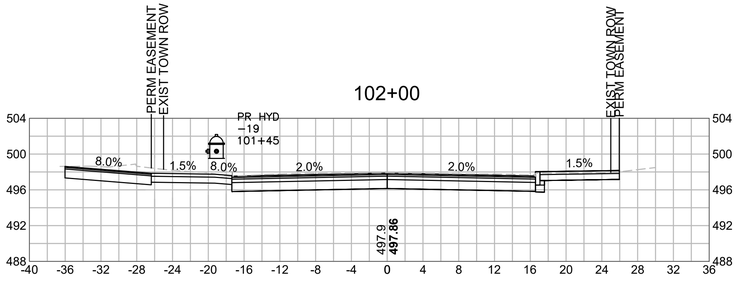
GROUND REMOVED: 89.60 SF
GROUND FILL: 0.00 SF



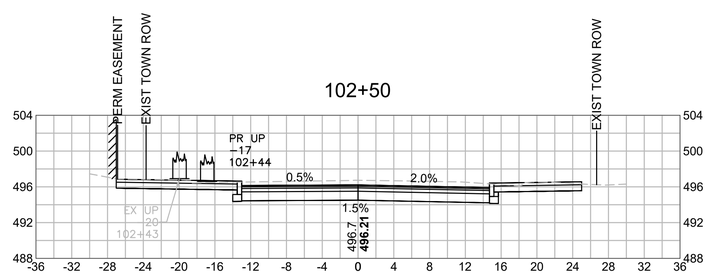
GROUND REMOVED: 83.16 SF
GROUND FILL: 0.00 SF



GROUND REMOVED: 87.12 SF
GROUND FILL: 0.00 SF



GROUND REMOVED: 80.06 SF
GROUND FILL: 0.00 SF



GROUND REMOVED: 85.26 SF
GROUND FILL: 0.00 SF

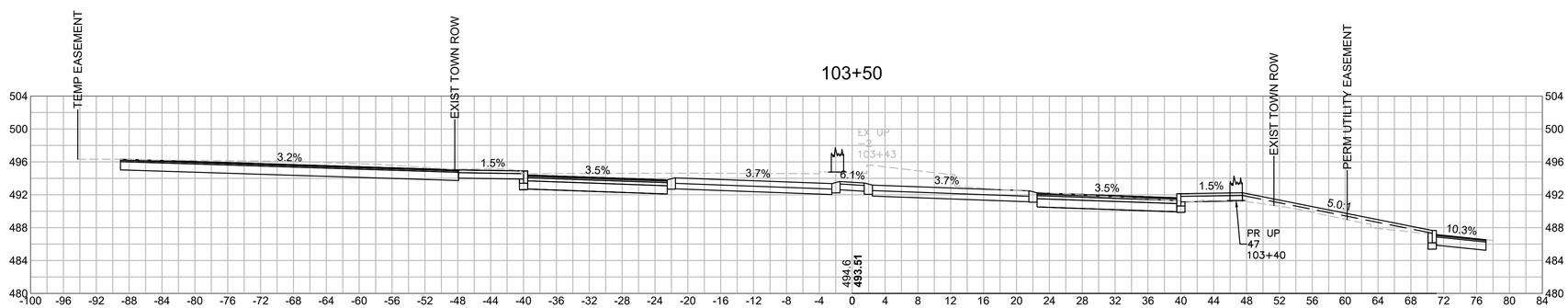
HOR. SCALE IN FEET
8 0 8 16
8 0 8 16
VER. SCALE IN FEET

SOUTHBRIDGE
INTERSECTION IMPROVEMENTS

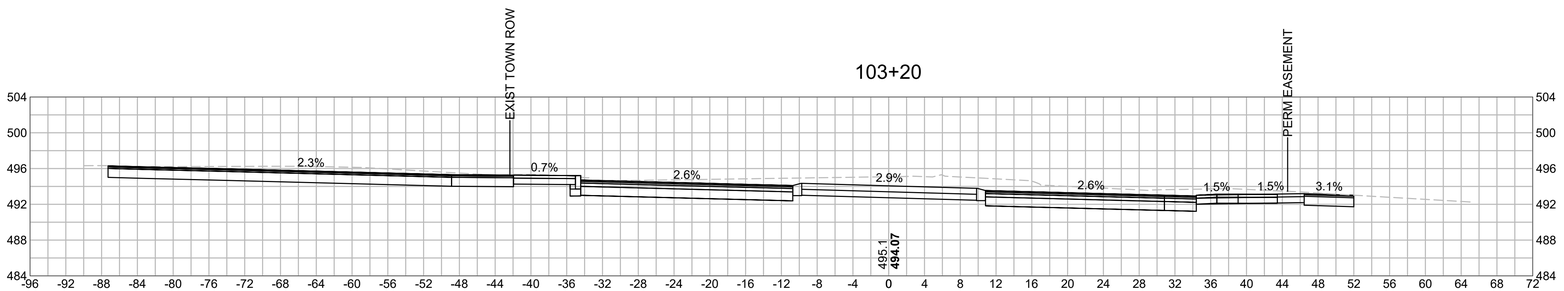
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP/CMQ/HSI-0033(042)X	67	91
PROJECT FILE NO. 608778			

CROSS SECTIONS
HAMILTON ST

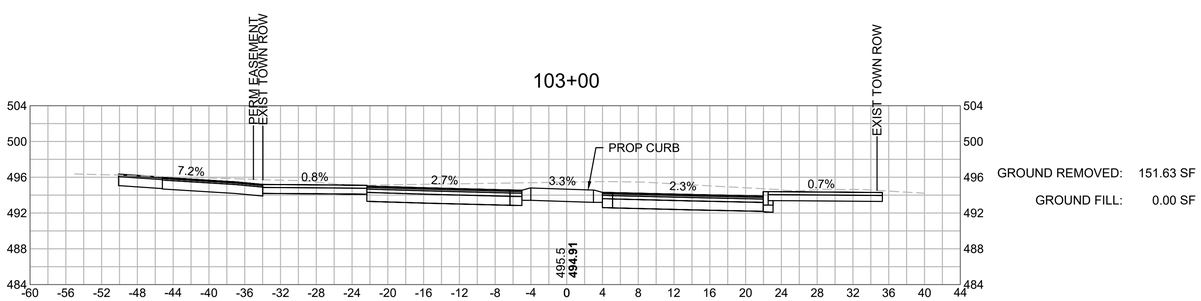
11672.02_HD\XSEC_HAMILTON.DWG Plotted on 28-May-2025 4:03 PM



GROUND REMOVED: 141.38 SF
GROUND FILL: 0.00 SF



GROUND REMOVED: 215.55 SF
GROUND FILL: 0.00 SF



GROUND REMOVED: 151.63 SF
GROUND FILL: 0.00 SF

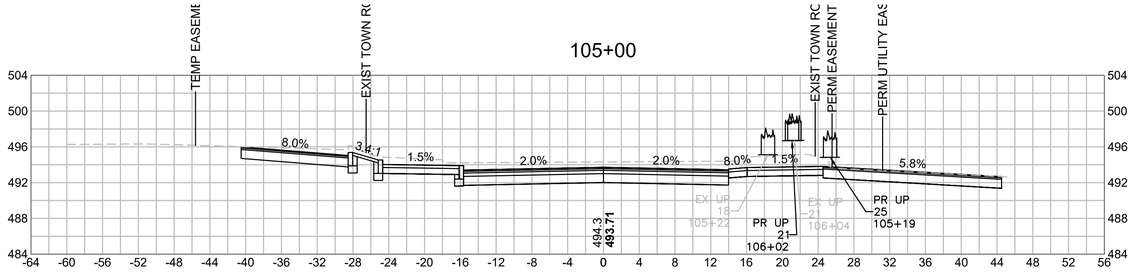
HOR. SCALE IN FEET
8 0 8 16
8 0 8 16
VER. SCALE IN FEET

SOUTHBRIDGE
INTERSECTION IMPROVEMENTS

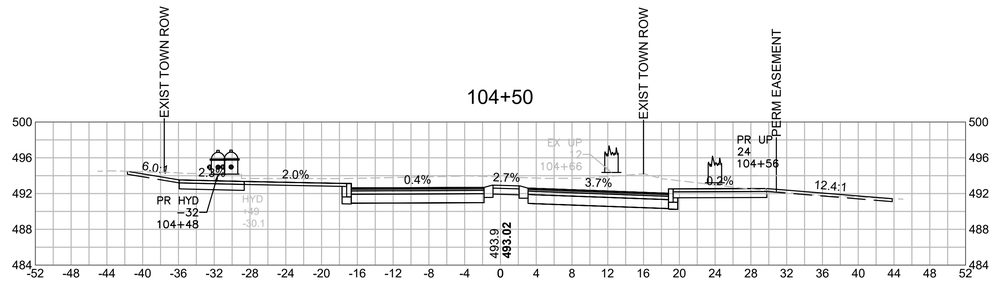
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP/CMQ/HSI-0033(042)X	68	91
PROJECT FILE NO. 608778			

CROSS SECTIONS
HAMILTON ST

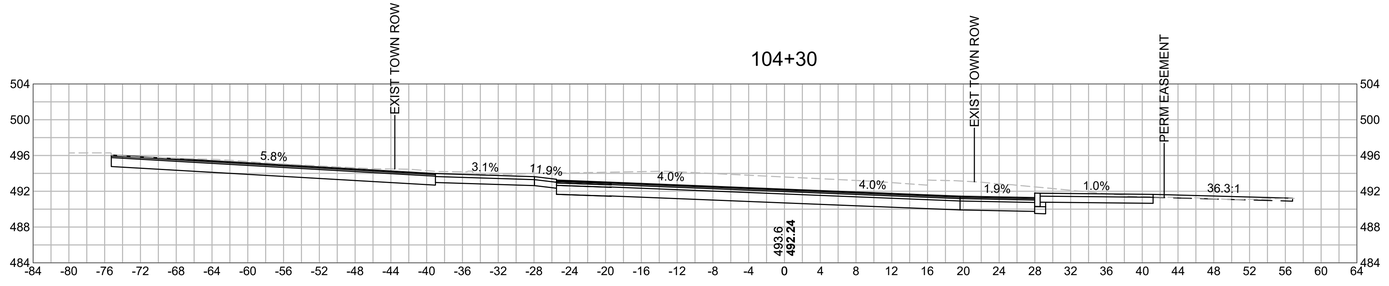
11672.02_HD(XSEC_HAMILTON).DWG Plotted on 28-May-2025 4:03 PM



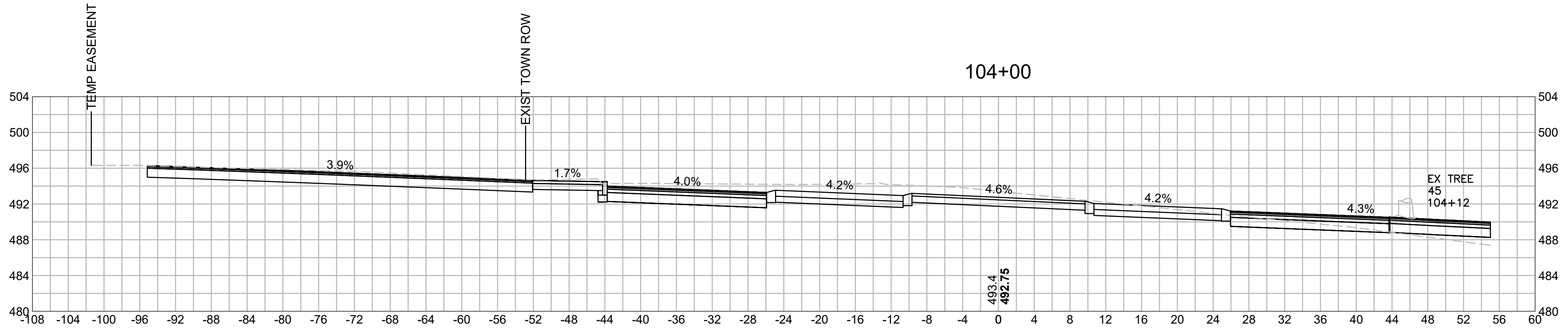
GROUND REMOVED: 136.66 SF
GROUND FILL: 0.00 SF



GROUND REMOVED: 139.64 SF
GROUND FILL: 0.00 SF



GROUND REMOVED: 237.64 SF
GROUND FILL: 0.00 SF



GROUND REMOVED: 127.63 SF
GROUND FILL: 5.50 SF

HOR. SCALE IN FEET
8 0 8 16
VER. SCALE IN FEET
8 0 8 16

SOUTHBRIDGE
INTERSECTION IMPROVEMENTS

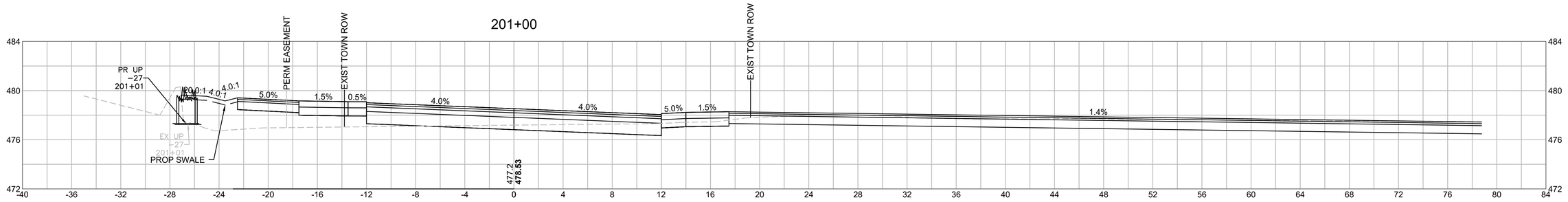
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP/CMQ/HSI-0033(042)X	69	91
PROJECT FILE NO. 608778			

CROSS SECTIONS
HOOK STREET

PC = 200+09.27
R1 = 140.00'
PCC= 201+60.36
R2 = 210.00'
PT = 203+33.07
RATE OF BANK = 9%

GROUND REMOVED: 54.54 SF

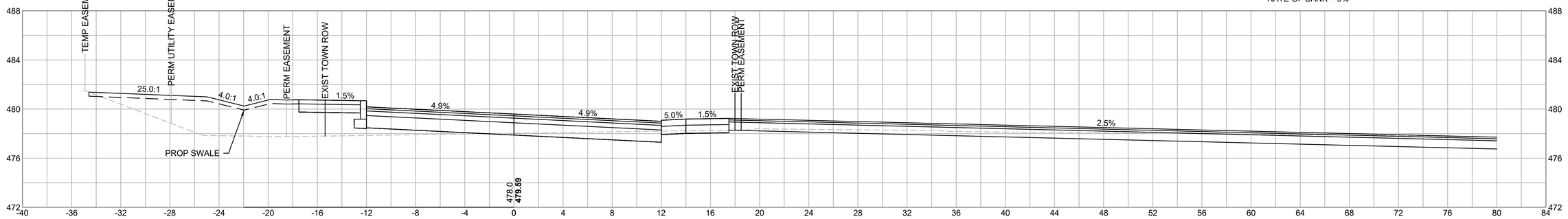
GROUND FILL: 20.41 SF



PC = 200+09.27
R1 = 140.00'
PCC= 201+60.36
R2 = 210.00'
PT = 203+33.07
RATE OF BANK = 9%

GROUND REMOVED: 38.52 SF

GROUND FILL: 57.94 SF

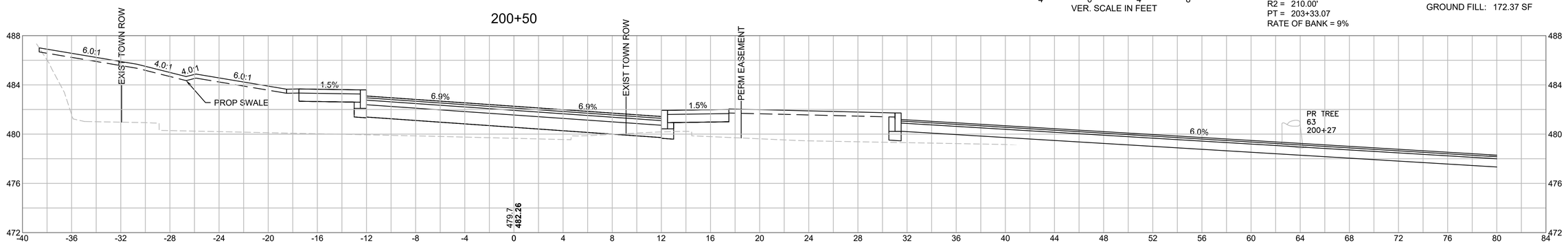


HOR. SCALE IN FEET
4 0 4 8
4 0 4 8
VER. SCALE IN FEET

PC = 200+09.27
R1 = 140.00'
PCC= 201+60.36
R2 = 210.00'
PT = 203+33.07
RATE OF BANK = 9%

GROUND REMOVED: 10.28 SF

GROUND FILL: 172.37 SF



11672.02_HD\XSEC_HOOK).DWG Plotted on 28-May-2025 4:03 PM

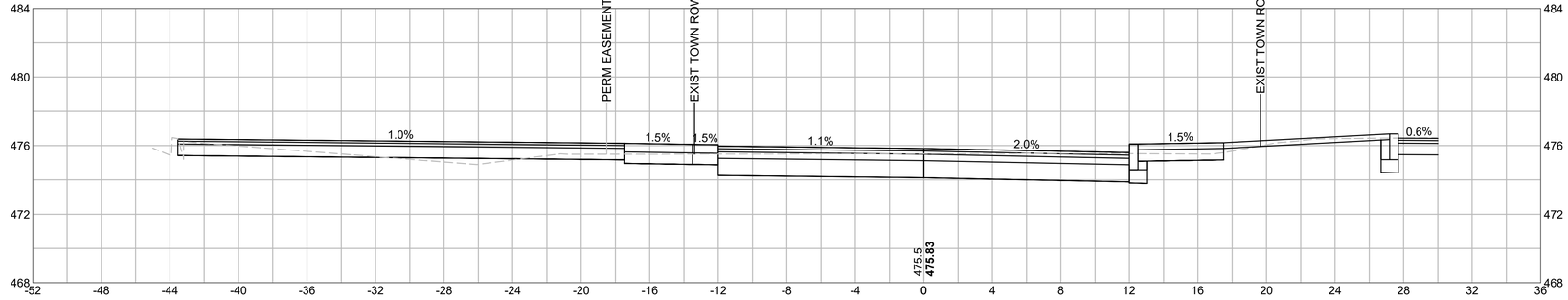
SOUTHBRIDGE
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP/CMQ/HSI-0033(042)X	70	91
PROJECT FILE NO. 608778			

CROSS SECTIONS
HOOK STREET

11672.02_HD\XSEC_HOOK\.DWG Plotted on 28-May-2025 4:03 PM

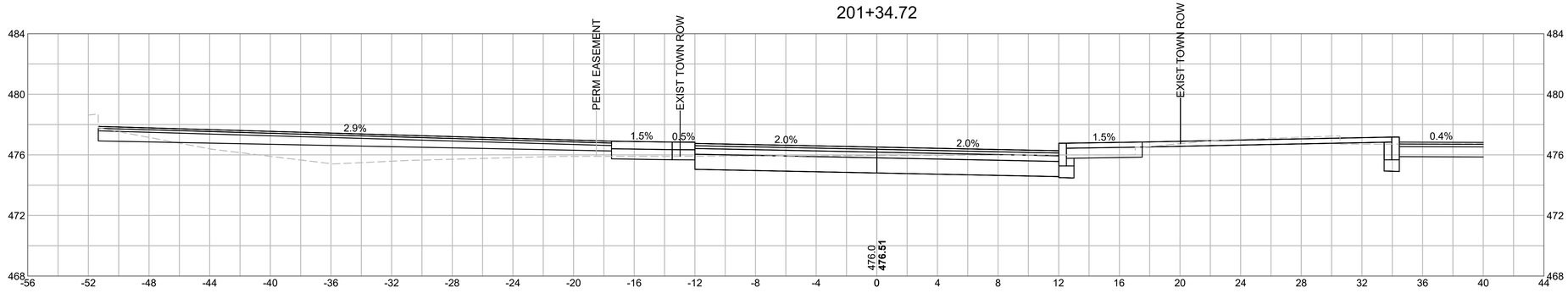
201+50



GROUND REMOVED: 59.97 SF
GROUND FILL: 1.42 SF

PC = 200+09.27
R1 = 140.00'
PCC= 201+60.36
R2 = 210.00'
PT = 203+33.07
RATE OF BANK = 9%

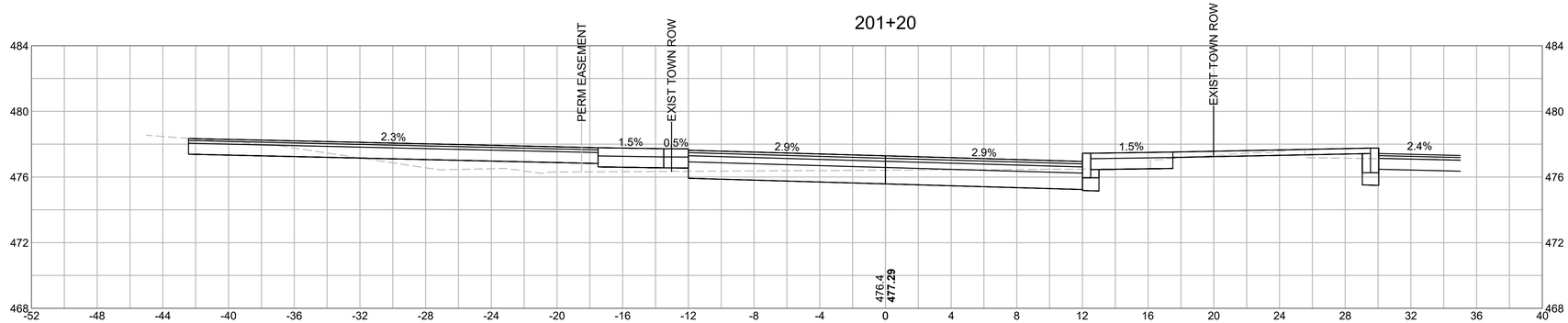
201+34.72



GROUND REMOVED: 39.91 SF
GROUND FILL: 14.07 SF

PC = 200+09.27
R1 = 140.00'
PCC= 201+60.36
R2 = 210.00'
PT = 203+33.07
RATE OF BANK = 9%

201+20



GROUND REMOVED: 29.86 SF
GROUND FILL: 8.88 SF

PC = 200+09.27
R1 = 140.00'
PCC= 201+60.36
R2 = 210.00'
PT = 203+33.07
RATE OF BANK = 9%

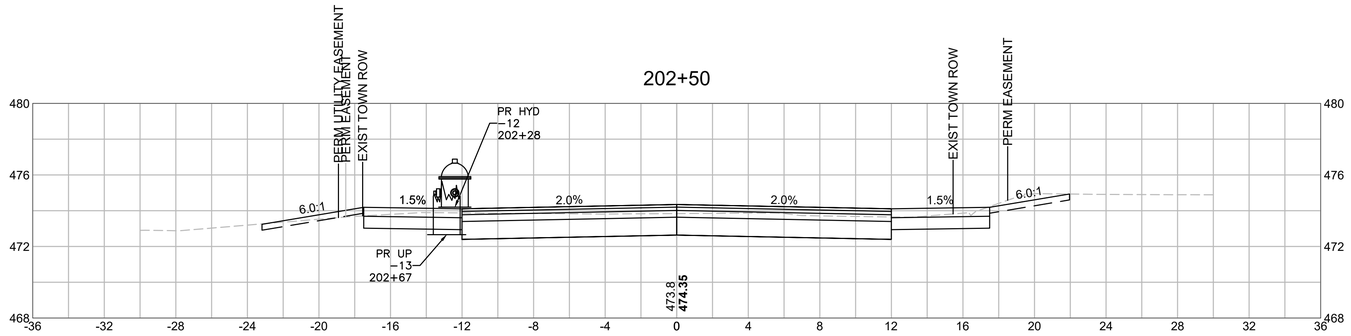
HOR. SCALE IN FEET
4 0 4 8
VER. SCALE IN FEET
4 0 4 8

SOUTHBRIDGE
INTERSECTION IMPROVEMENTS

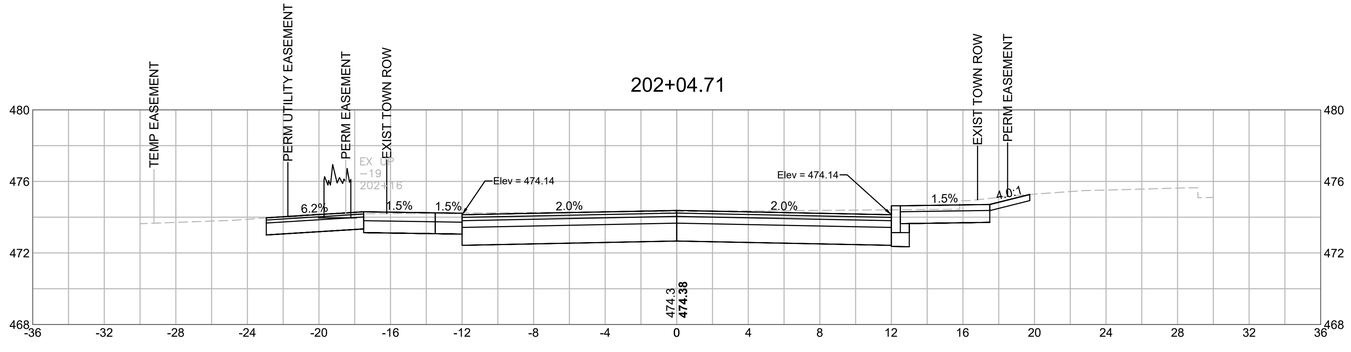
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP/CMQ/HSI-0033(042)X	71	91
PROJECT FILE NO. 608778			

CROSS SECTIONS
HOOK STREET

11672.02_HD\XSEC_HOOK).DWG Plotted on 28-May-2025 4:03 PM

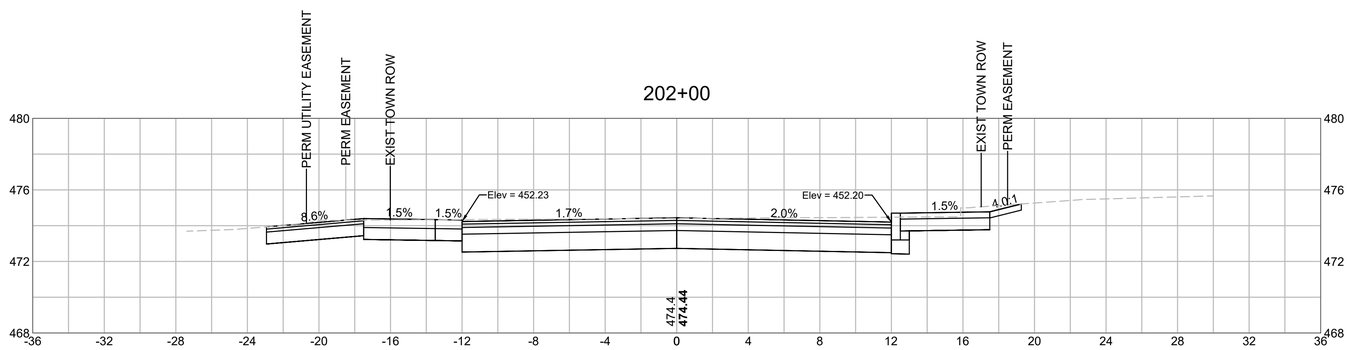


GROUND REMOVED: 26.00 SF
GROUND FILL: 0.00 SF



GROUND REMOVED: 56.36 SF
GROUND FILL: 0.00 SF

PC = 200+09.27
R1 = 140.00'
PCC= 201+60.36
R2 = 210.00'
PT = 203+33.07
RATE OF BANK = 9%



GROUND REMOVED: 56.57 SF
GROUND FILL: 0.00 SF

PC = 200+09.27
R1 = 140.00'
PCC= 201+60.36
R2 = 210.00'
PT = 203+33.07
RATE OF BANK = 9%

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

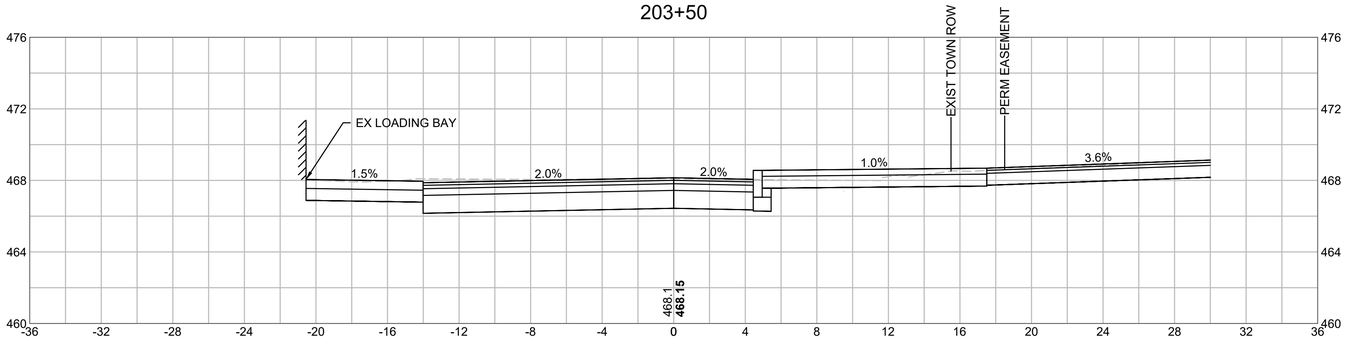
SOUTHBRIDGE
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP/CMQ/HSI-0033(042)X	72	91
PROJECT FILE NO. 608778			

CROSS SECTIONS
HOOK STREET

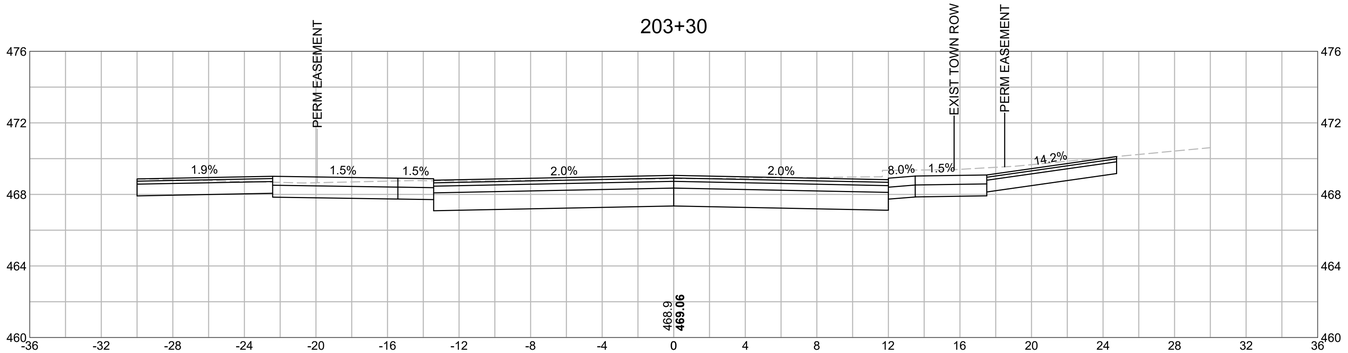
11672.02_HD\XSEC_HOOK).DWG Plotted on 28-May-2025 4:03 PM

203+50



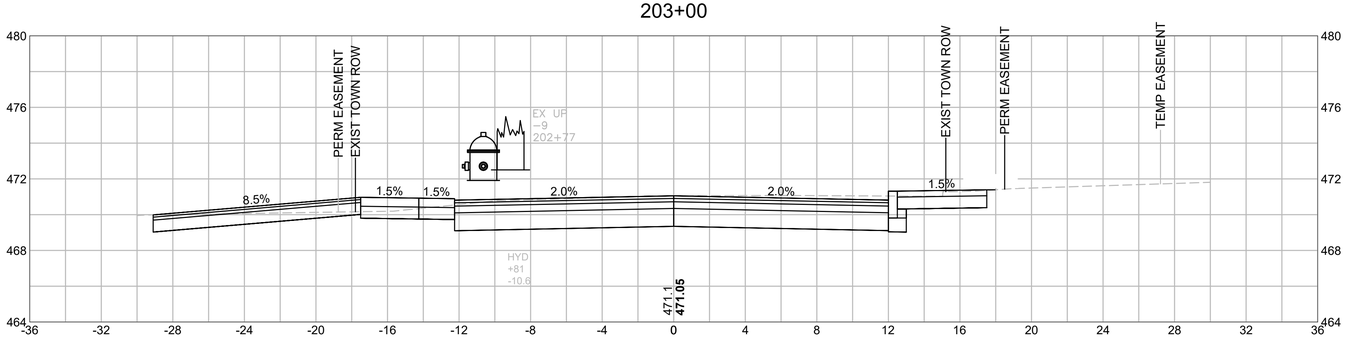
GROUND REMOVED: 35.73 SF
GROUND FILL: 0.04 SF

203+30



GROUND REMOVED: 45.40 SF
GROUND FILL: 0.00 SF

203+00



GROUND REMOVED: 51.98 SF
GROUND FILL: 0.01 SF

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

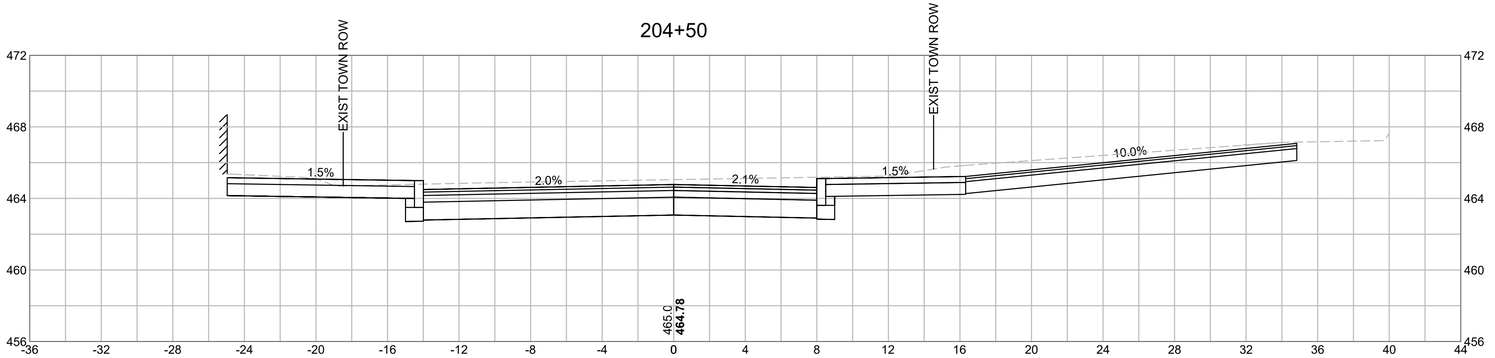
SOUTHBRIDGE
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP/CMQ/HSI-0033(042)X	73	91
PROJECT FILE NO. 608778			

CROSS SECTIONS
HOOK STREET

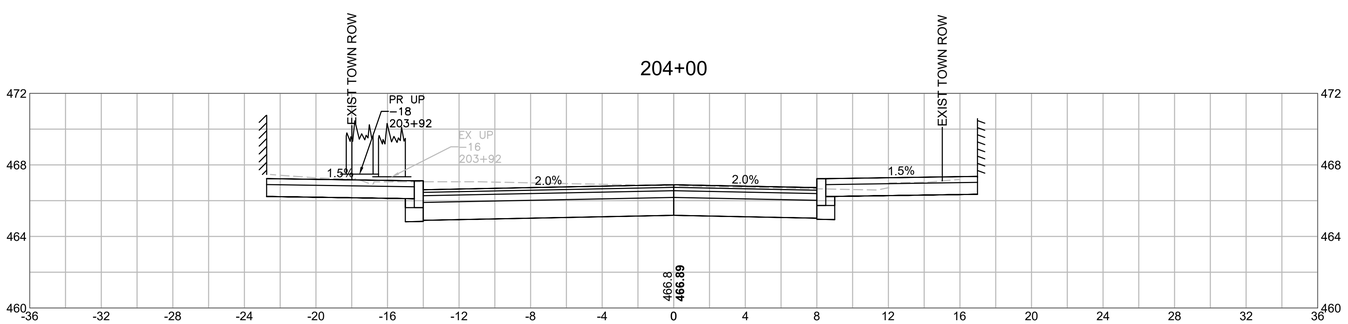
11672.02_HD\XSEC_HOOK).DWG Plotted on 28-May-2025 4:03 PM

204+50



GROUND REMOVED: 65.96 SF
GROUND FILL: 0.00 SF

204+00



GROUND REMOVED: 41.71 SF
GROUND FILL: 0.00 SF

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

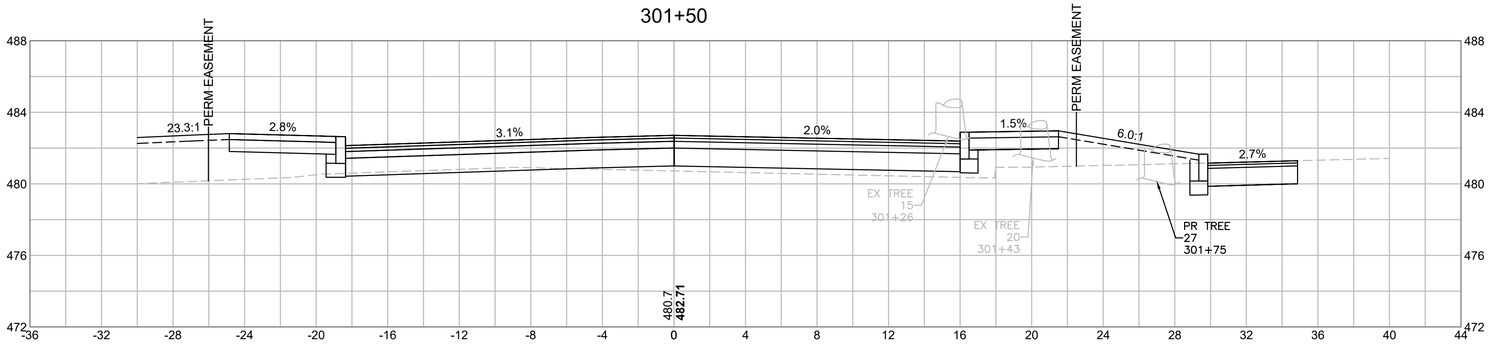
SOUTHBRIDGE
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP/CMQ/HSI-0033(042)X	74	91
PROJECT FILE NO. 608778			

CROSS SECTIONS
LAROCHELLE WAY

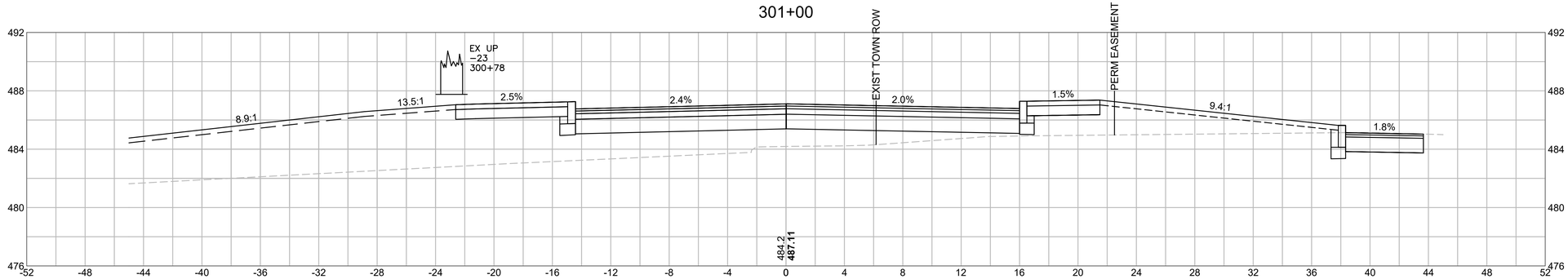
Plotted on 28-May-2025 4:04 PM
11672.02_HD\XSEC_LAROCHELLE).DWG

301+50



GROUND REMOVED: 8.54 SF
GROUND FILL: 41.09 SF

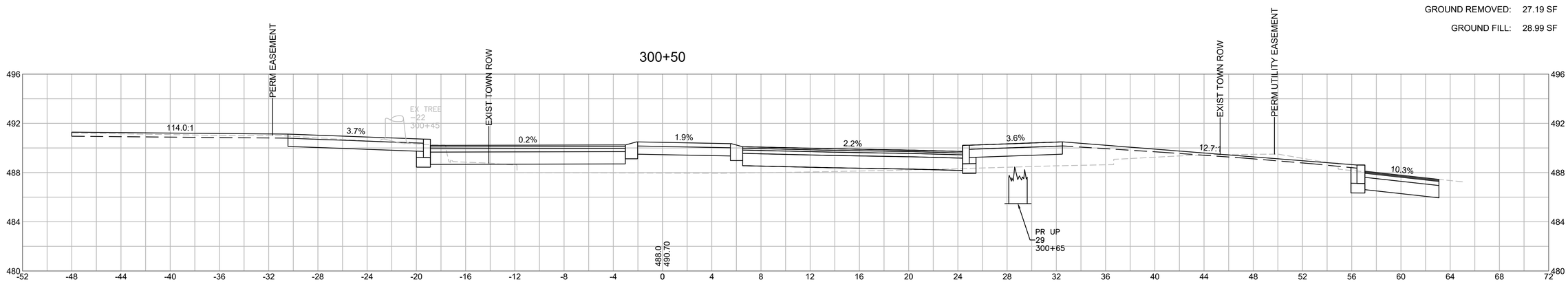
301+00



GROUND REMOVED: 8.99 SF
GROUND FILL: 120.12 SF

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

300+50



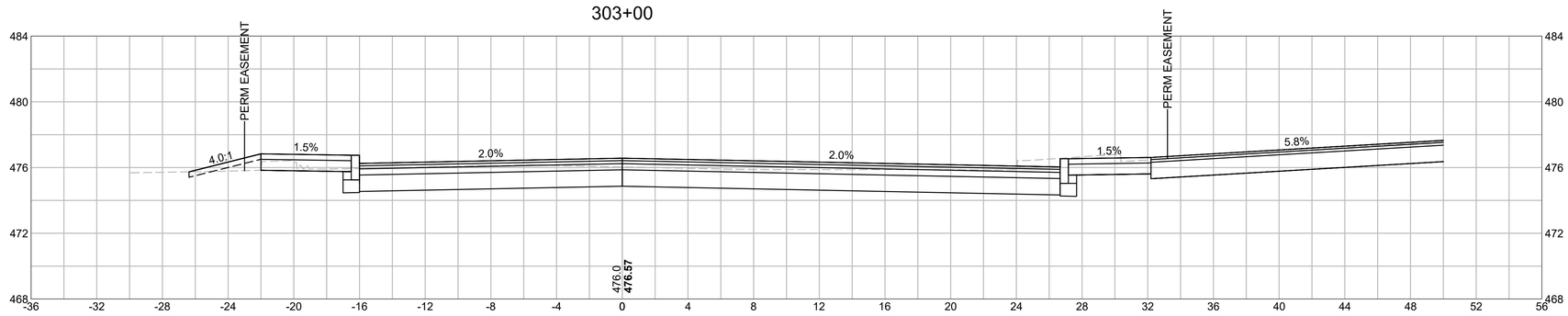
GROUND REMOVED: 27.19 SF
GROUND FILL: 28.99 SF

SOUTHBRIDGE
INTERSECTION IMPROVEMENTS

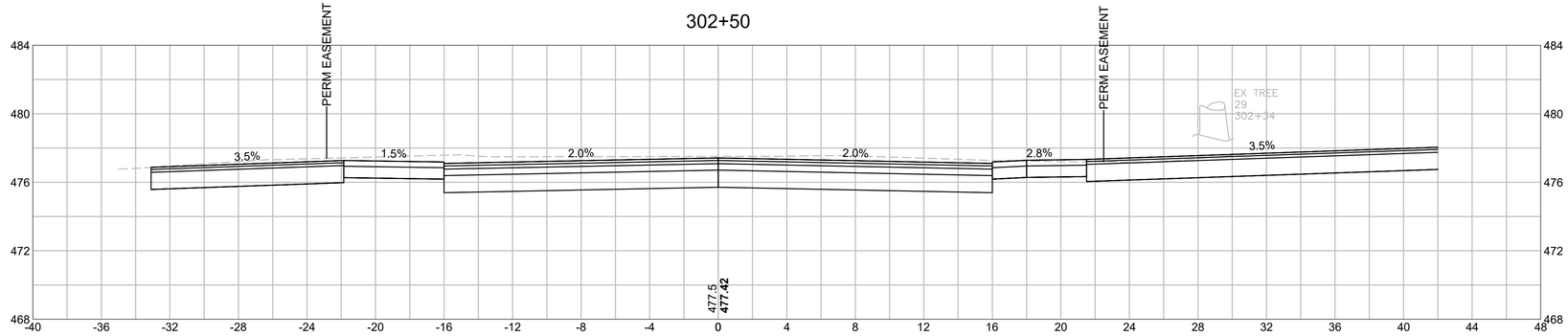
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP/CMQ/HSI-0033(042)X	75	91
PROJECT FILE NO. 608778			

CROSS SECTIONS
LAROCHELLE WAY

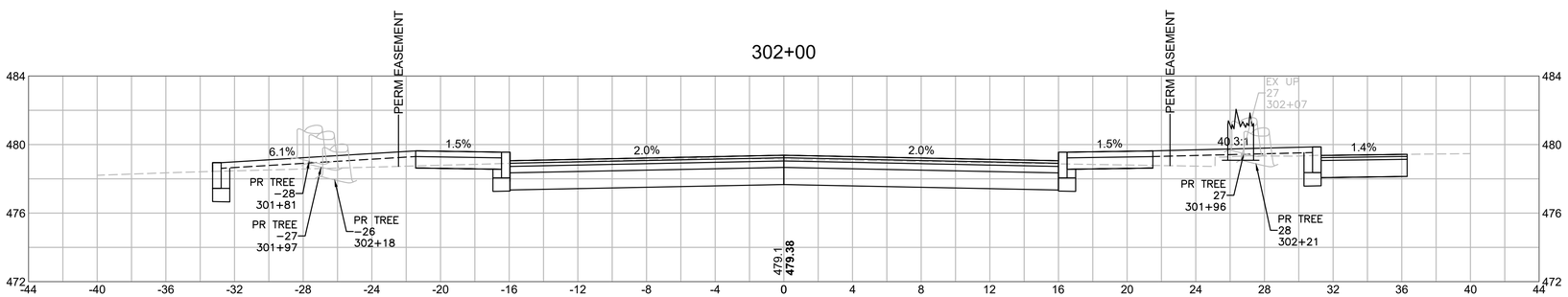
11672.02_HD\XSEC_LAROCHELLE).DWG Plotted on 28-May-2025 4:04 PM



GROUND REMOVED: 85.63 SF
GROUND FILL: 0.06 SF



GROUND REMOVED: 110.06 SF
GROUND FILL: 0.00 SF



GROUND REMOVED: 61.81 SF
GROUND FILL: 4.01 SF

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

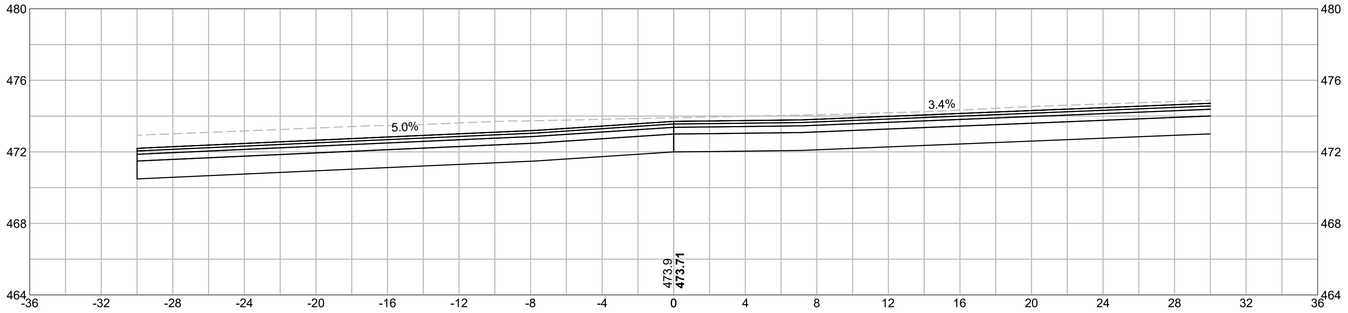
SOUTHBRIDGE
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP/CMQ/HSI-0033(042)X	76	91
PROJECT FILE NO. 608778			

CROSS SECTIONS
LAROCHELLE WAY

11672.02_HD\XSEC_LAROCHELLE).DWG Plotted on 28-May-2025 4:04 PM

304+50

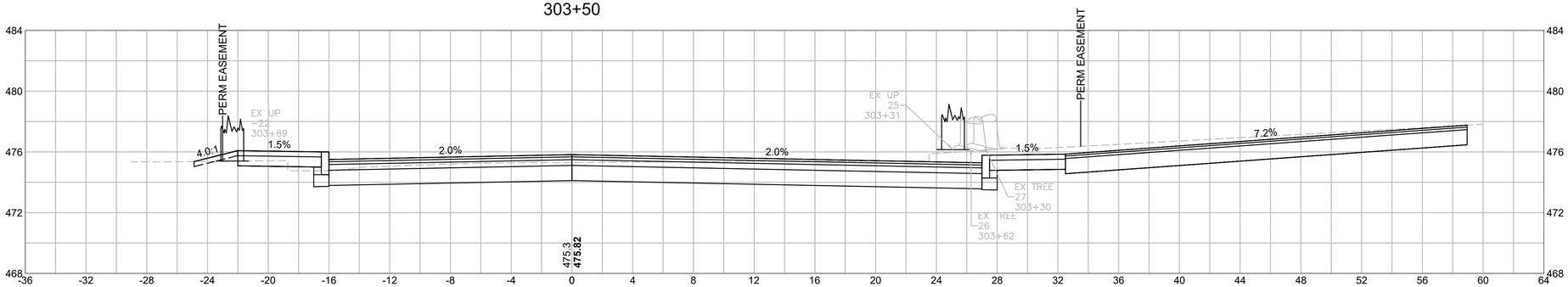


GROUND REMOVED: 113.52 SF
GROUND FILL: 0.00 SF

304+00

GROUND REMOVED: 134.33 SF
GROUND FILL: 0.73 SF

303+50



GROUND REMOVED: 109.31 SF
GROUND FILL: 0.00 SF

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

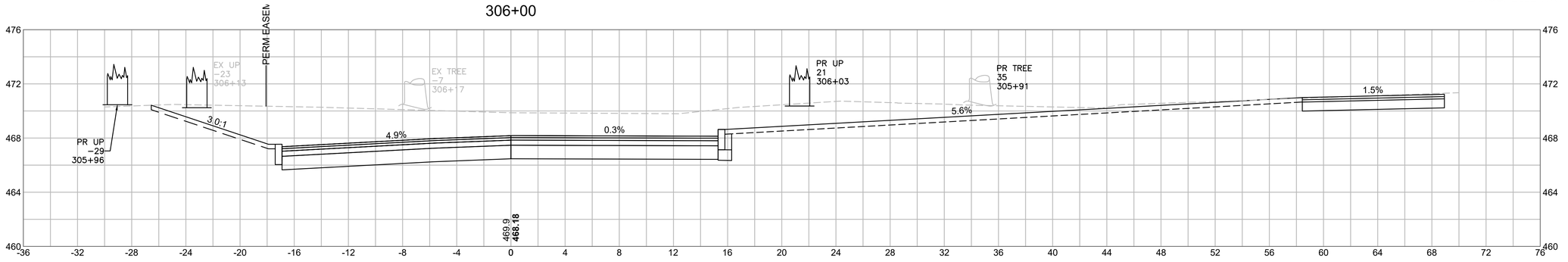
SOUTHBRIDGE
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP/CMQ/HSI-0033(042)X	77	91
PROJECT FILE NO. 608778			

CROSS SECTIONS
LAROCHELLE WAY

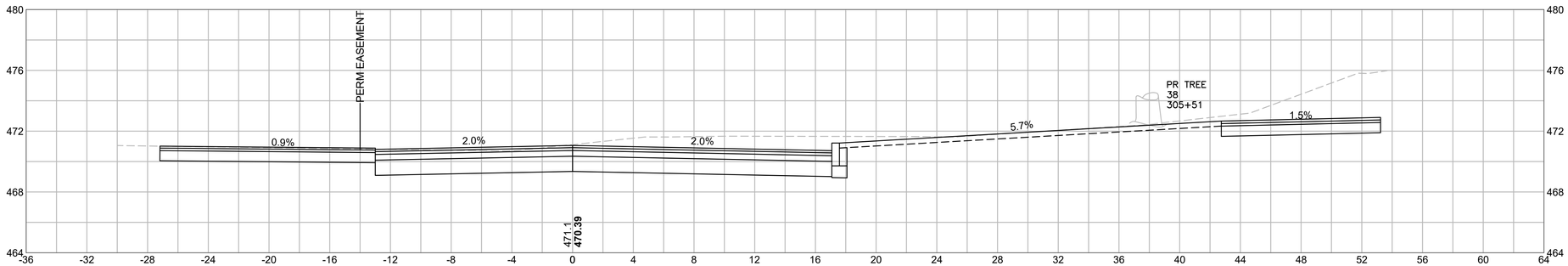
Plotted on 28-May-2025 4:04 PM
11672.02_HD\XSEC_LAROCHELLE).DWG

306+00



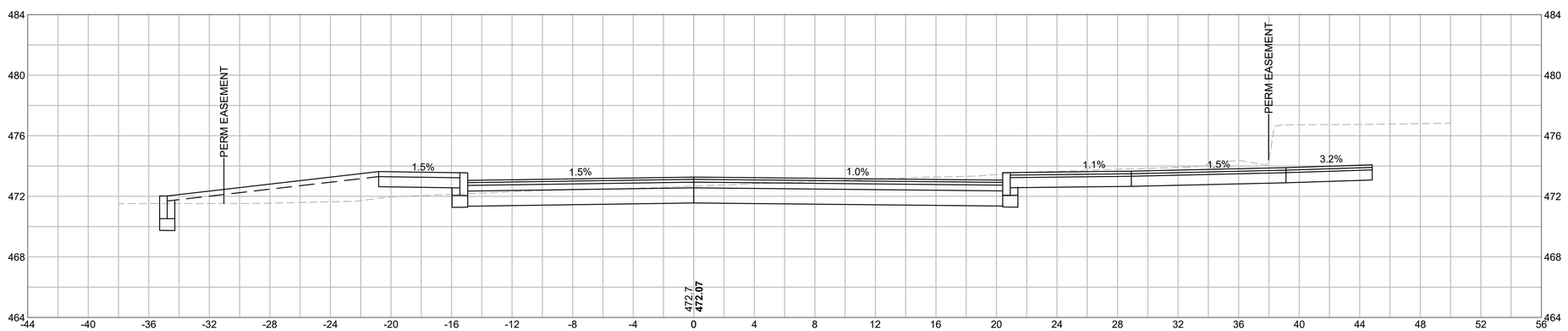
GROUND REMOVED: 223.42 SF
GROUND FILL: 0.00 SF

305+50



GROUND REMOVED: 115.50 SF
GROUND FILL: 0.00 SF

305+00



GROUND REMOVED: 97.02 SF
GROUND FILL: 15.32 SF

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

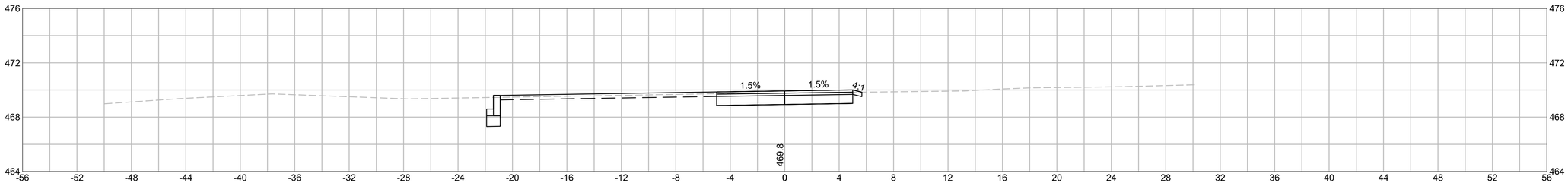
SOUTHBRIDGE
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/HSI-0033(042)X	78	91
PROJECT FILE NO.	608778		

LAROCHELLE SUP

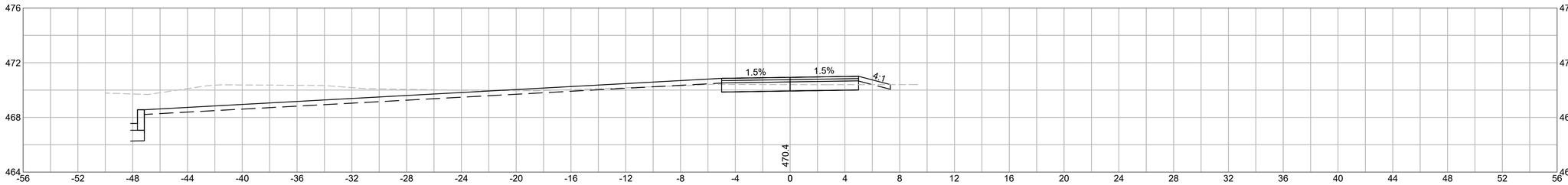
Plotted on 28-May-2025 4:04 PM
1167.02_HD\XSEC_LAROCHELLE).DWG

702+00



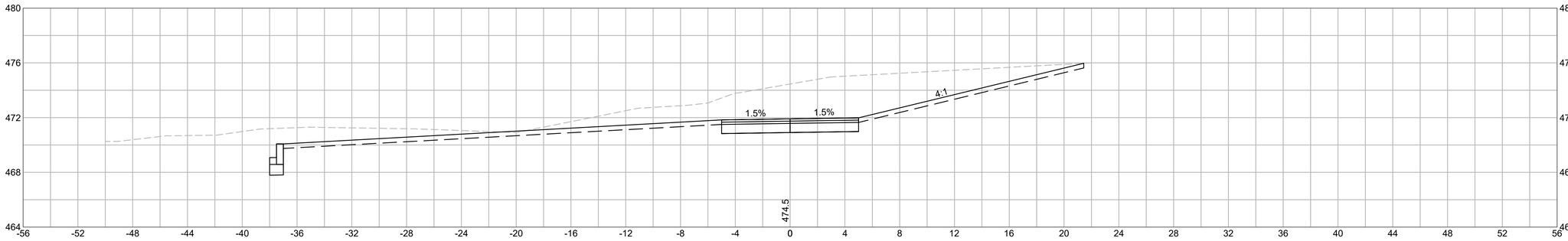
GROUND REMOVED: 13.47 SF
GROUND FILL: 0.00 SF

701+50



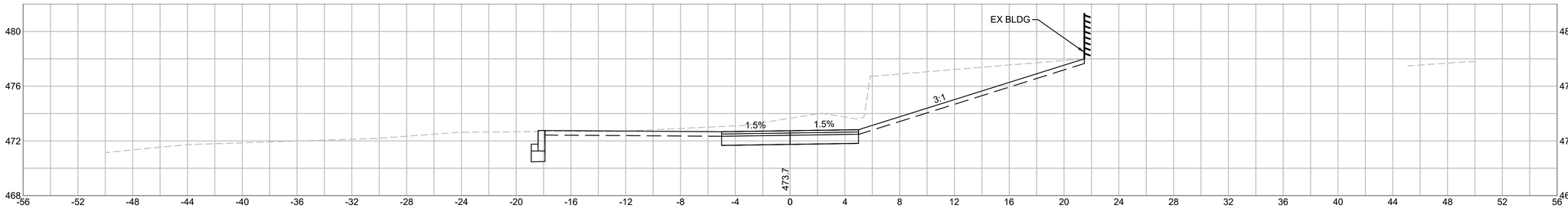
GROUND REMOVED: 41.55 SF
GROUND FILL: 0.34 SF

701+00



GROUND REMOVED: 103.24 SF
GROUND FILL: 0.00 SF

700+50



GROUND REMOVED: 60.48 SF
GROUND FILL: 0.00 SF

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

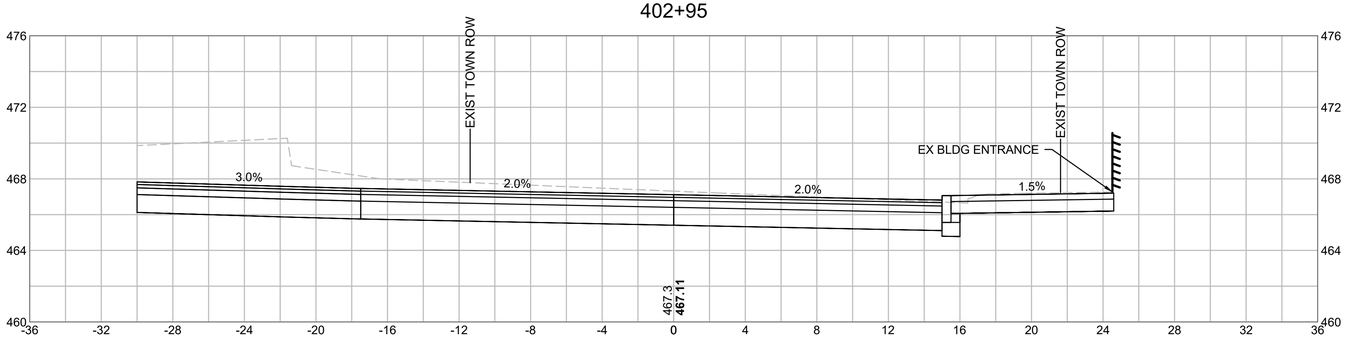
SOUTHBRIDGE
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP/CMQ/HSI-0033(042)X	79	91
PROJECT FILE NO. 608778			

CROSS SECTIONS
FOSTER ST-NORTH ST

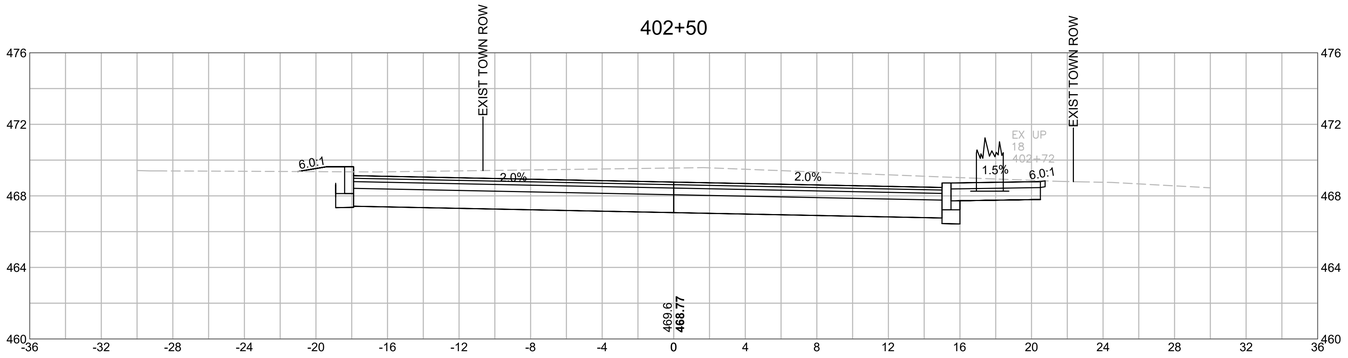
Plotted on 28-May-2025 4:05 PM
11672.02_HD\XSEC_FOSTER\.DWG

402+95



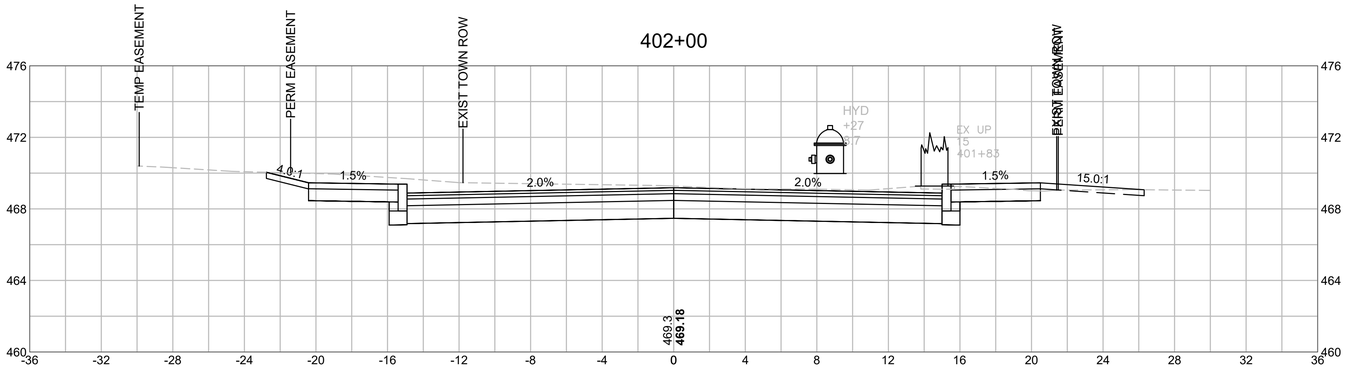
GROUND REMOVED: 114.56 SF
GROUND FILL: 0.00 SF

402+50



GROUND REMOVED: 99.46 SF
GROUND FILL: 0.40 SF

402+00



GROUND REMOVED: 74.36 SF
GROUND FILL: 0.90 SF

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

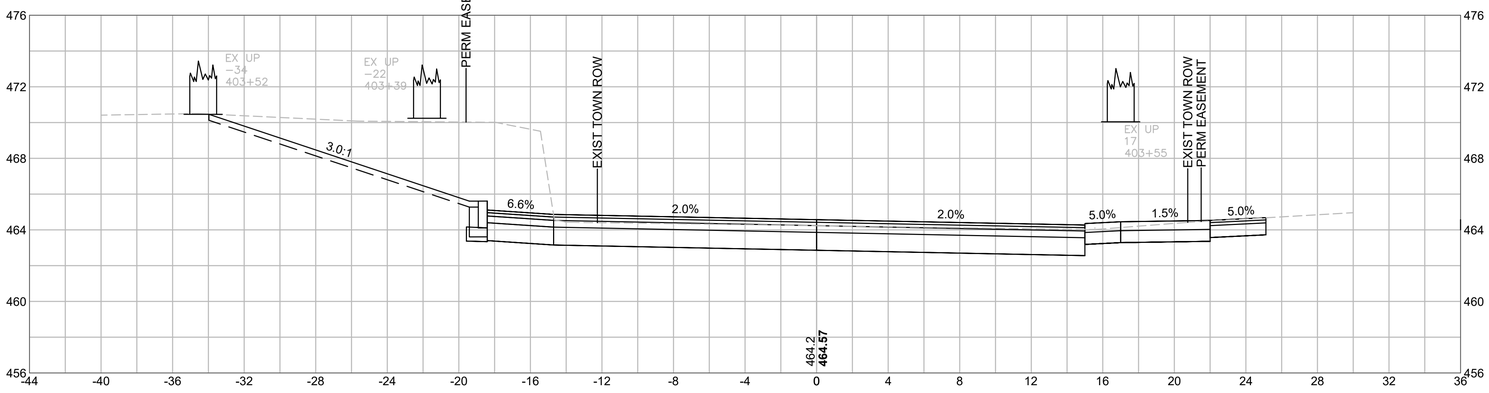
SOUTHBRIDGE
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP/CMQ/HSI-0033(042)X	80	91
PROJECT FILE NO. 608778			

CROSS SECTIONS
FOSTER ST-NORTH ST

11672.02_HD\XSEC_FOSTER\.DWG Plotted on 28-May-2025 4:05 PM

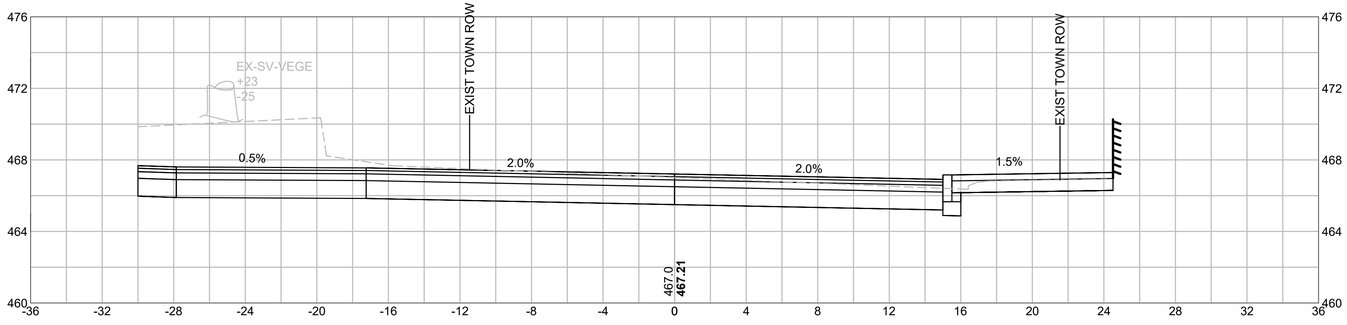
403+50



GROUND REMOVED: 120.72 SF

GROUND FILL: 0.00 SF

403+00



GROUND REMOVED: 117.04 SF

GROUND FILL: 0.00 SF

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

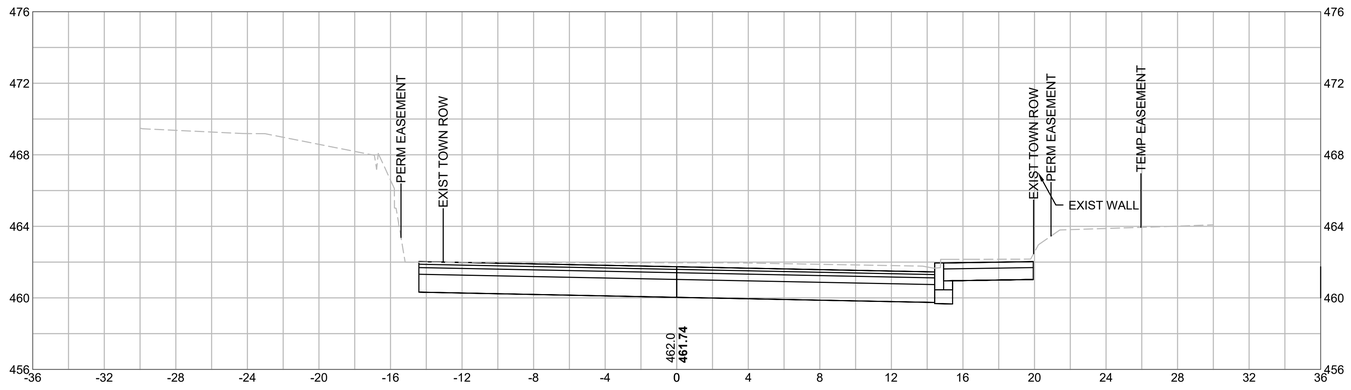
SOUTHBRIDGE
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP/CMQ/HSI-0033(042)X	81	91
PROJECT FILE NO. 608778			

CROSS SECTIONS
FOSTER ST-NORTH ST

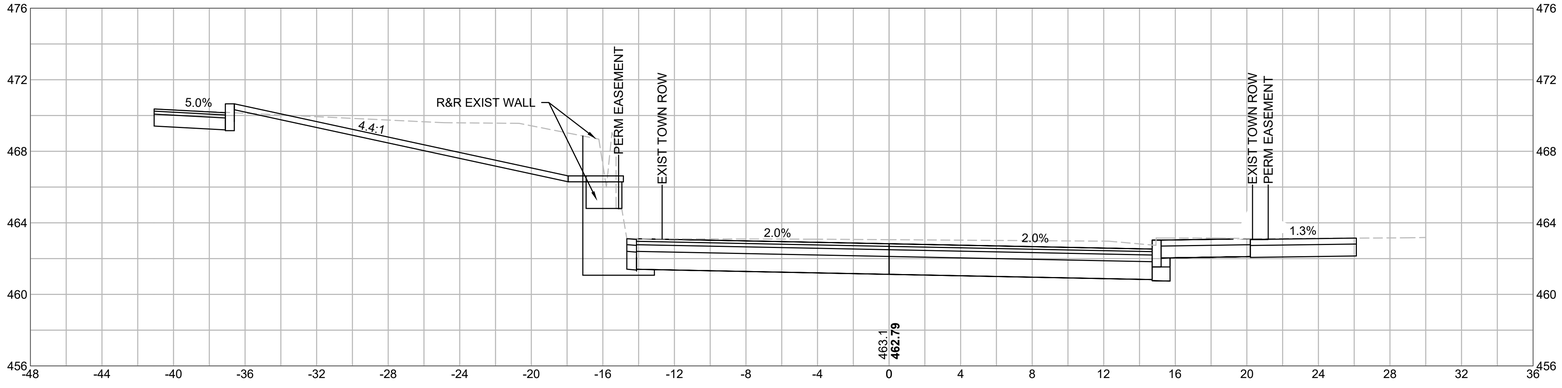
Plotted on 28-May-2025 4:05 PM
11672.02_HD\XSEC_FOSTER\.DWG

404+00



GROUND REMOVED: 69.91 SF
GROUND FILL: 0.00 SF

403+77



GROUND REMOVED: 70.17 SF
GROUND FILL: 0.00 SF
CLASS A TRENCH: 17.57 SF

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

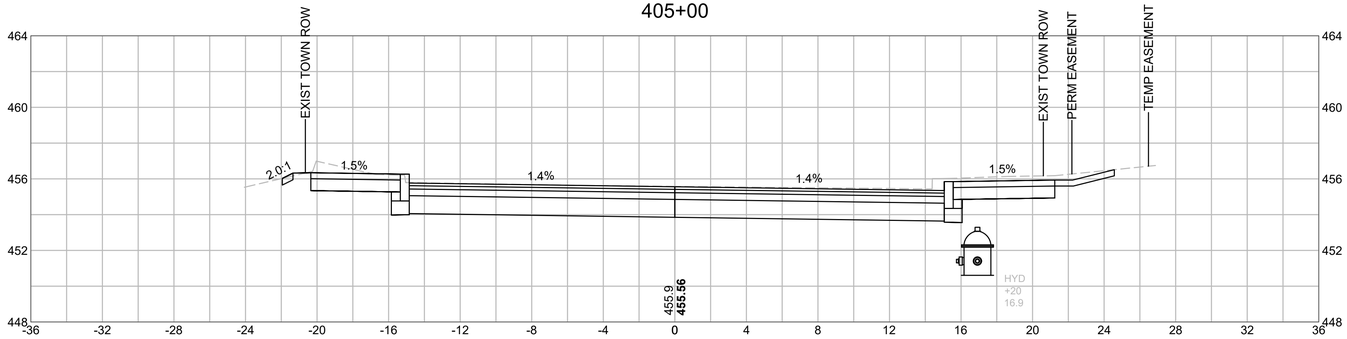
SOUTHBRIDGE
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP/CMQ/HSI-0033(042)X	82	91
PROJECT FILE NO. 608778			

CROSS SECTIONS
FOSTER ST-NORTH ST

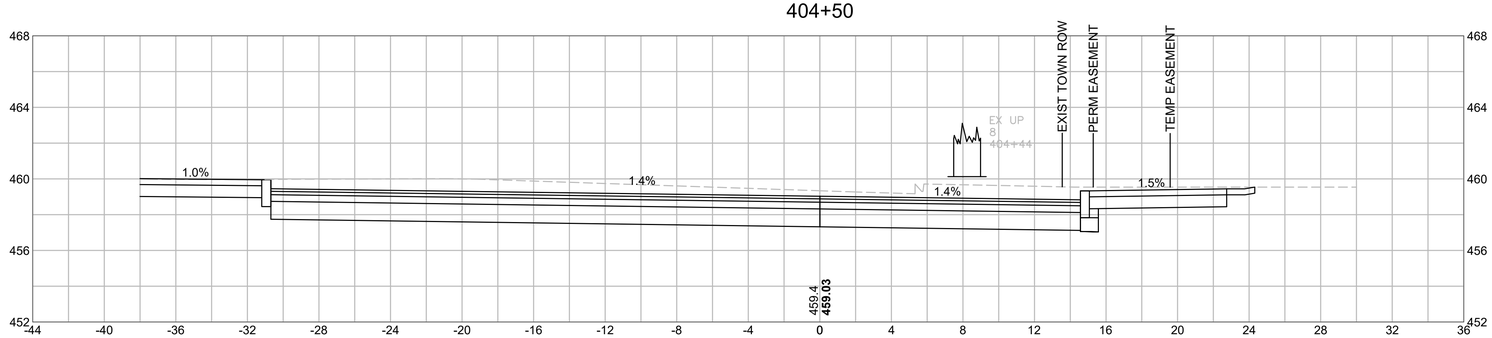
Plotted on 28-May-2025 4:05 PM
11672.02_HD\XSEC_FOSTER\.DWG

405+00



GROUND REMOVED: 81.65 SF
GROUND FILL: 0.00 SF

404+50



GROUND REMOVED: 102.53 SF
GROUND FILL: 0.00 SF

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

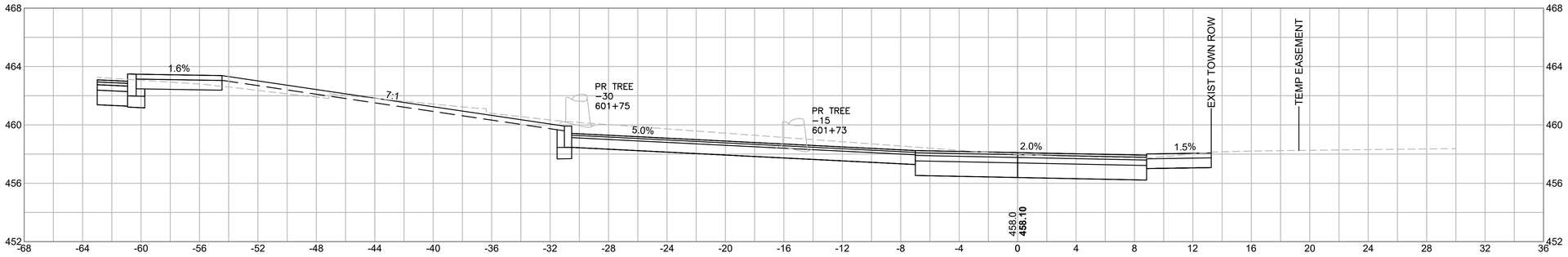
SOUTHBRIDGE
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP/CMQ/HSI-0033(042)X	83	91
PROJECT FILE NO. 608778			

CROSS SECTIONS
FOSTER ST-NORTH ST

Plotted on 28-May-2025 4:05 PM
11672.02_HD\XSEC_FOSTER\.DWG

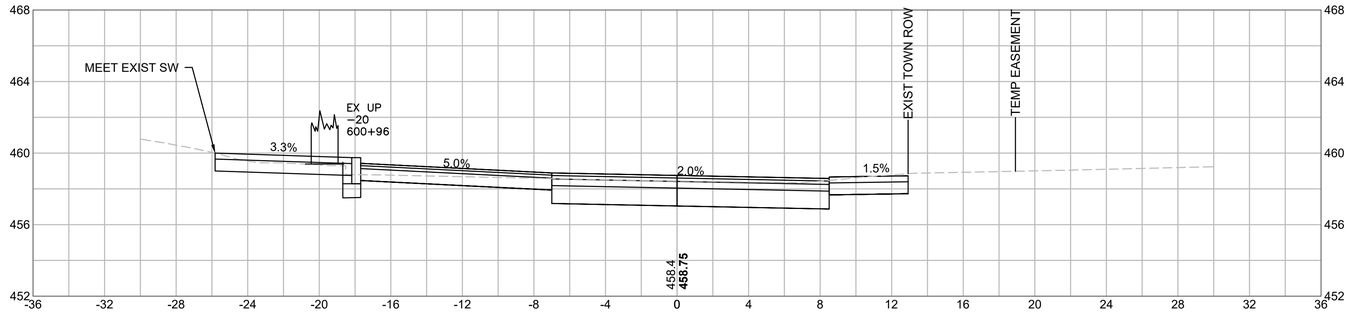
601+50



GROUND REMOVED: 104.12 SF

GROUND FILL: 1.87 SF

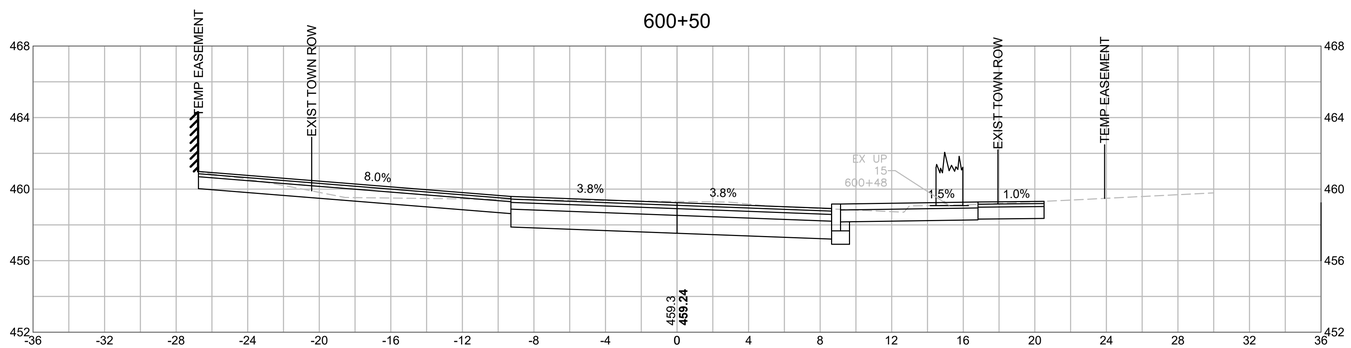
601+00



GROUND REMOVED: 31.60 SF

GROUND FILL: 0.00 SF

600+50



GROUND REMOVED: 45.60 SF

GROUND FILL: 0.00 SF

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

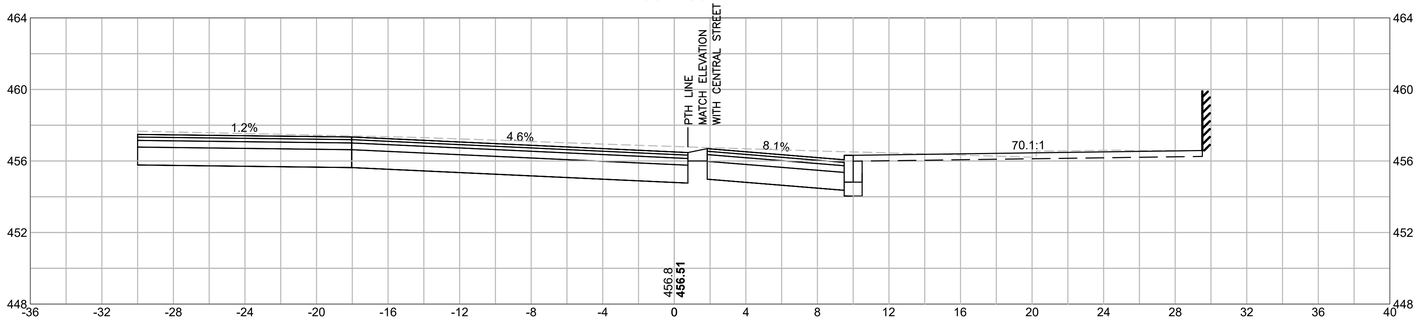
SOUTHBRIDGE
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP/CMQ/HSI-0033(042)X	84	91
PROJECT FILE NO. 608778			

CROSS SECTIONS
FOSTER ST-NORTH ST

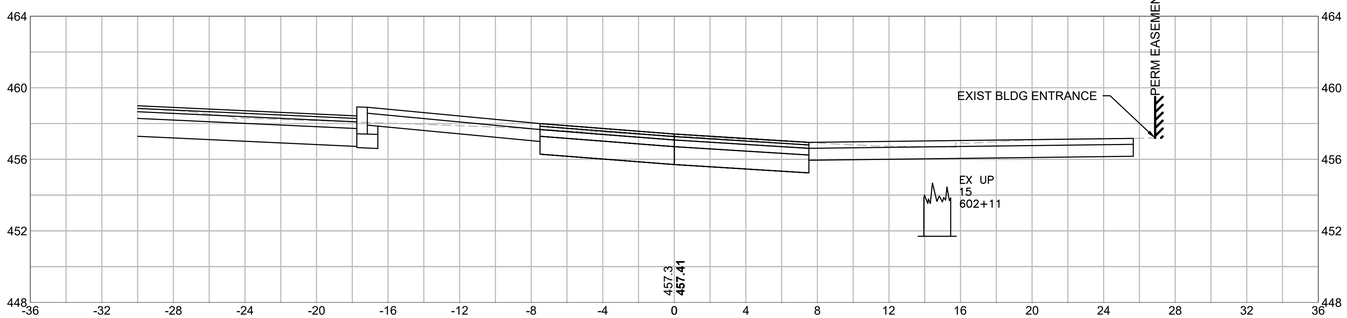
Plotted on 28-May-2025 4:05 PM
11672.02_HD\XSEC_FOSTER\.DWG

602+50



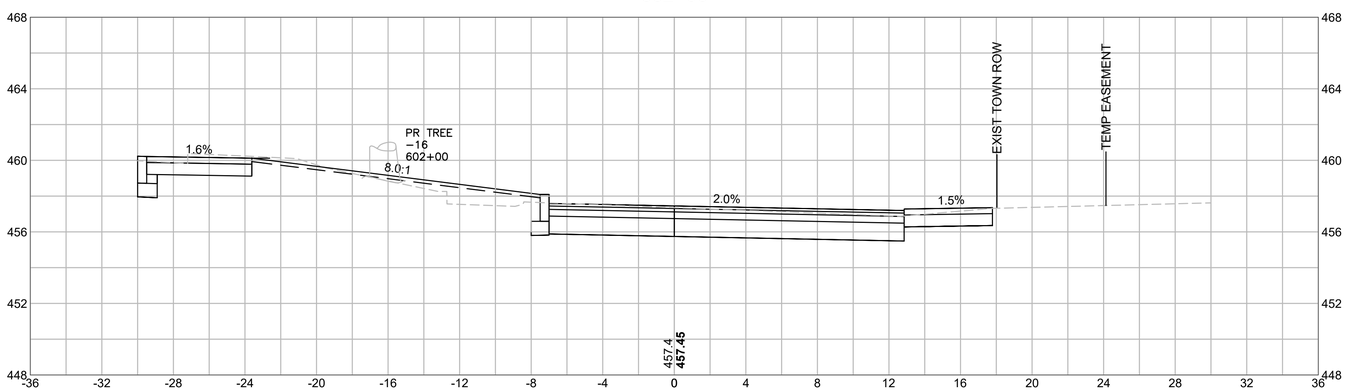
GROUND REMOVED: 85.27 SF
GROUND FILL: 0.00 SF

602+20



GROUND REMOVED: 55.21 SF
GROUND FILL: 0.39 SF

602+00



GROUND REMOVED: 48.11 SF
GROUND FILL: 0.39 SF

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

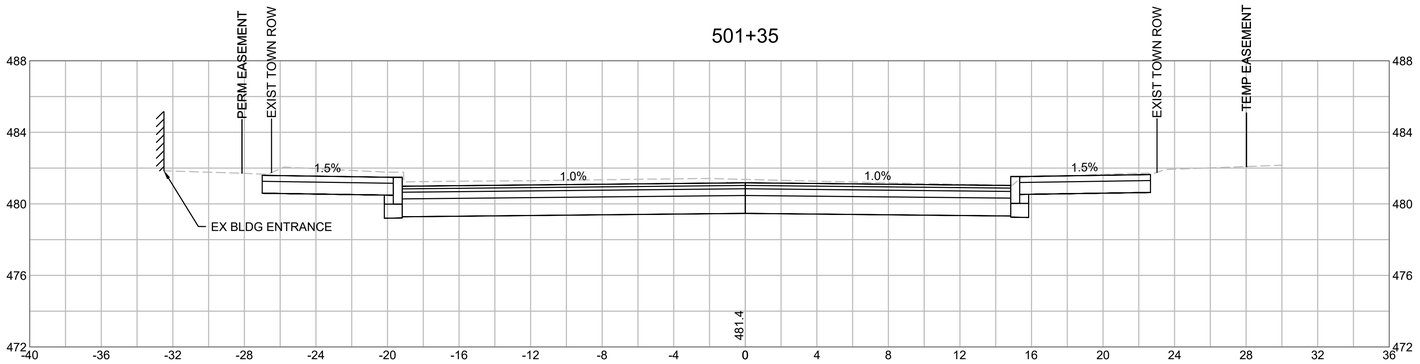
SOUTHBRIDGE
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP/CMQ/HSI-0033(042)X	85	91
PROJECT FILE NO. 608778			

CROSS SECTIONS
CENTRAL STREET

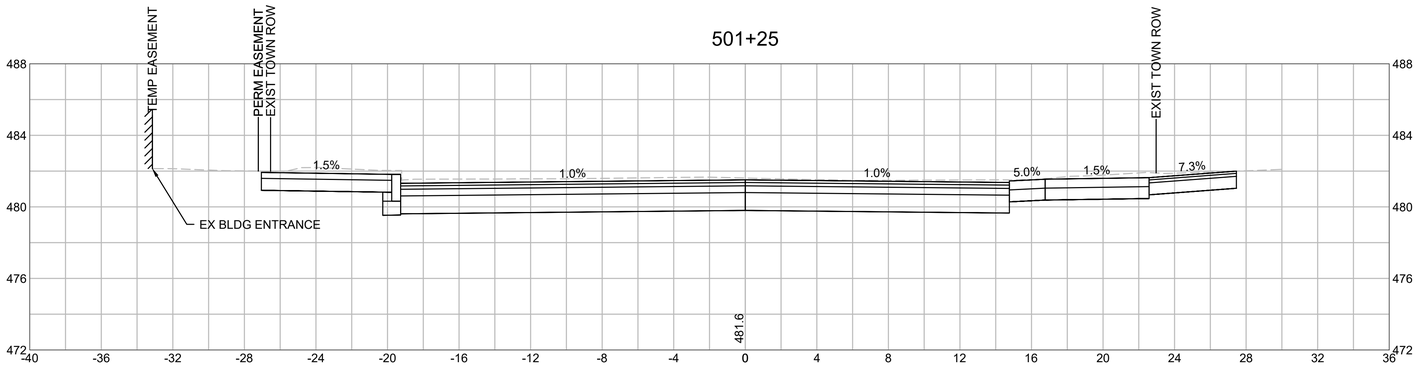
Plotted on 28-May-2025 4:05 PM
11672.02_HD\XSEC_CENTRAL).DWG

501+35



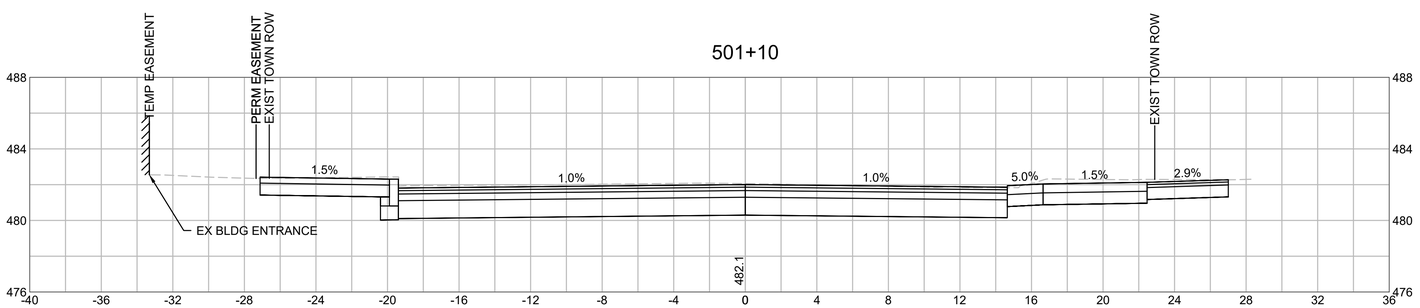
GROUND REMOVED: 83.83 SF
GROUND FILL: 0.00 SF

501+25



GROUND REMOVED: 82.67 SF
GROUND FILL: 0.00 SF

501+10



GROUND REMOVED: 76.58 SF
GROUND FILL: 0.00 SF

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

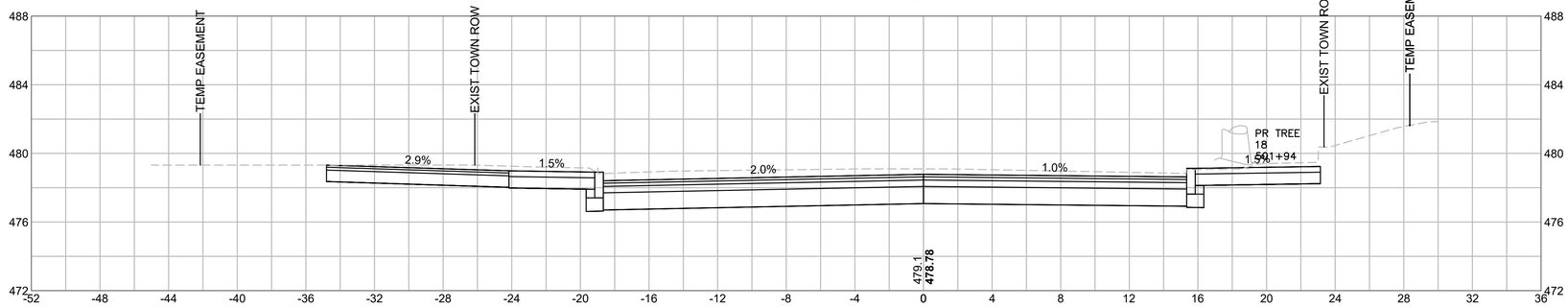
SOUTHBRIDGE
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP/CMQ/HSI-0033(042)X	86	91
PROJECT FILE NO. 608778			

CROSS SECTIONS
CENTRAL STREET

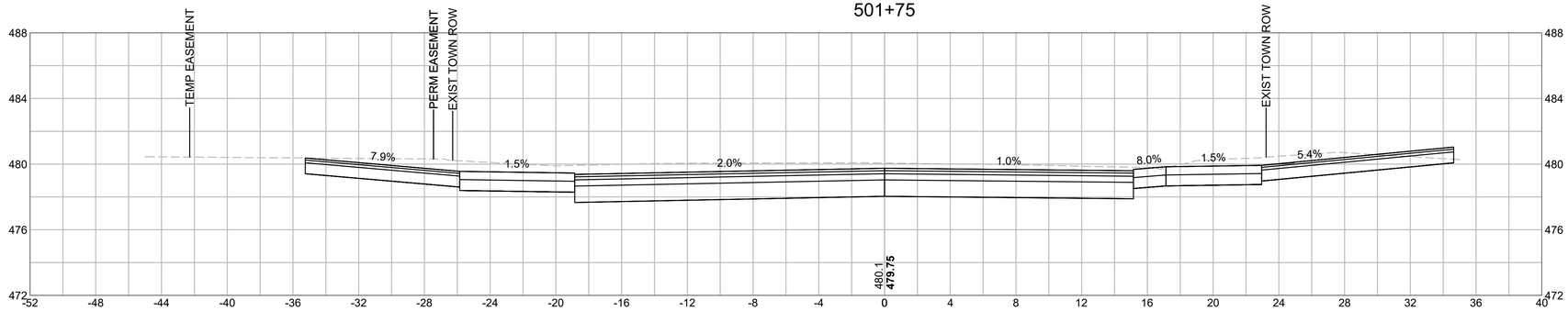
11672.02_HDIXSEC_CENTRAL).DWG Plotted on 28-May-2025 4:05 PM

502+00



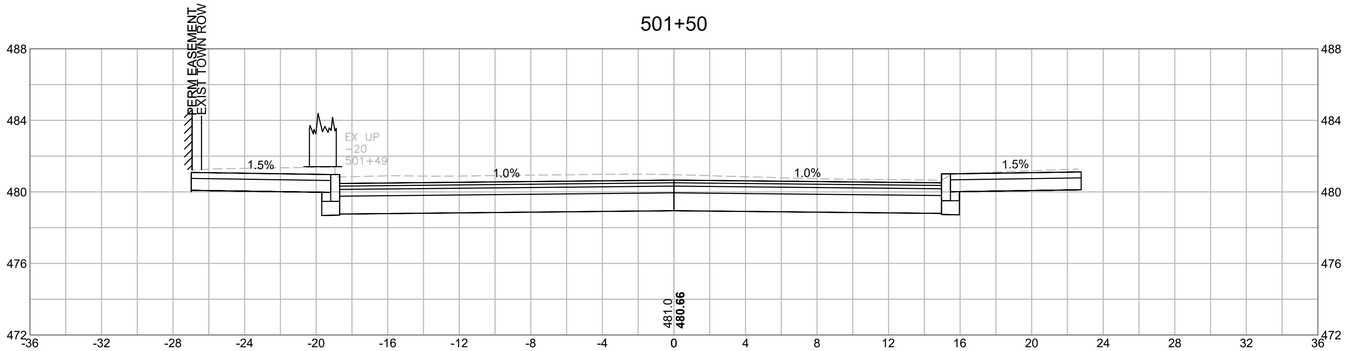
GROUND REMOVED: 87.26 SF
GROUND FILL: 0.00 SF

501+75



GROUND REMOVED: 108.23 SF
GROUND FILL: 0.00 SF

501+50



GROUND REMOVED: 90.11 SF
GROUND FILL: 0.00 SF

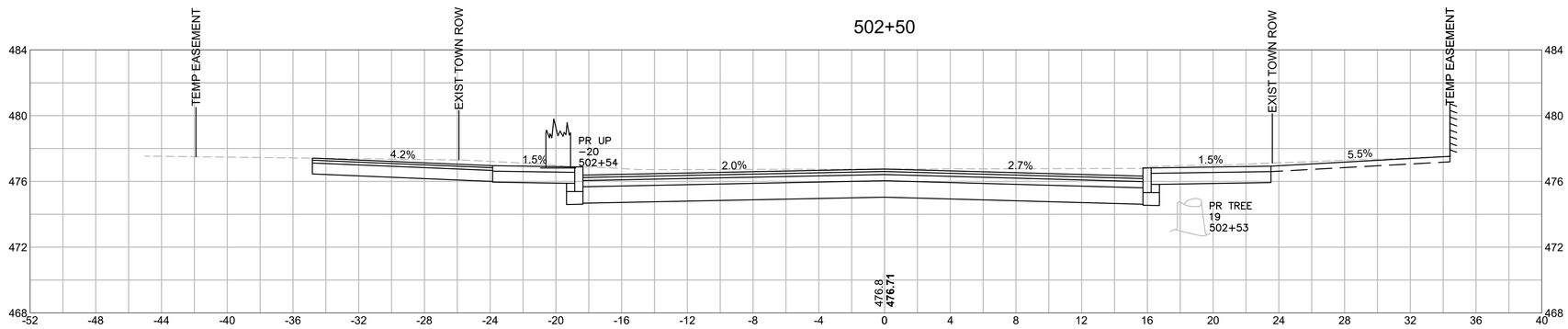
HOR. SCALE IN FEET
4 0 4 8
VER. SCALE IN FEET
4 0 4 8

SOUTHBRIDGE
INTERSECTION IMPROVEMENTS

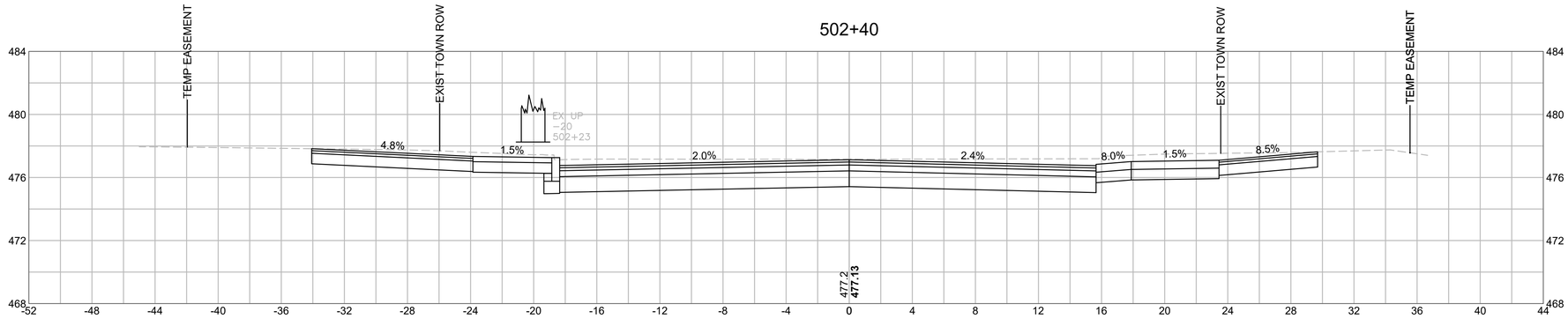
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP/CMQ/HSI-0033(042)X	87	91
PROJECT FILE NO. 608778			

CROSS SECTIONS
CENTRAL STREET

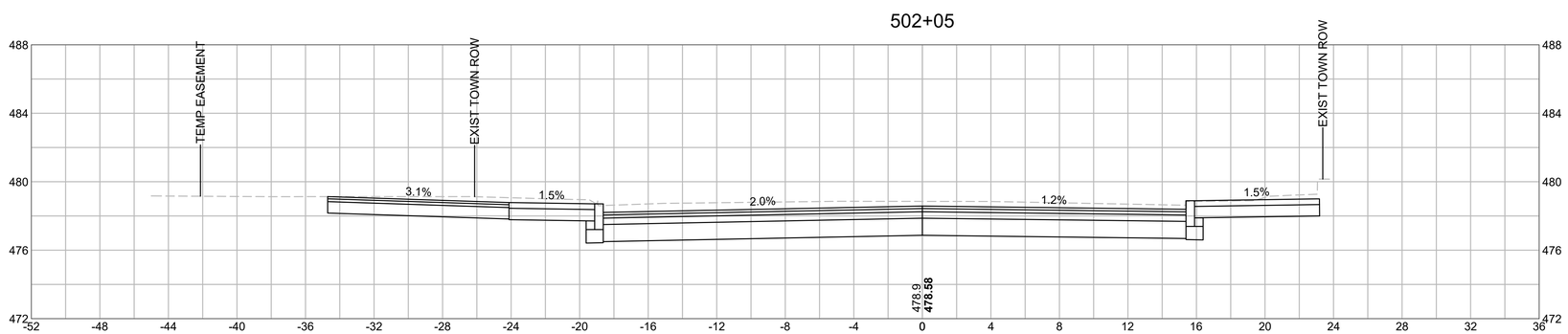
11672.02_HDIXSEC_CENTRAL).DWG Plotted on 28-May-2025 4:05 PM



GROUND REMOVED: 99.62 SF
GROUND FILL: 0.00 SF



GROUND REMOVED: 104.77 SF
GROUND FILL: 0.00 SF



GROUND REMOVED: 99.55 SF
GROUND FILL: 0.00 SF

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

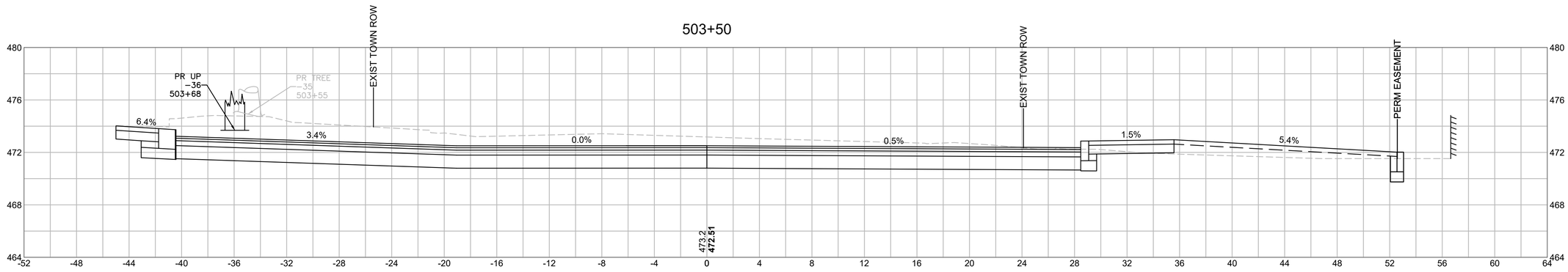
SOUTHBRIDGE
INTERSECTION IMPROVEMENTS

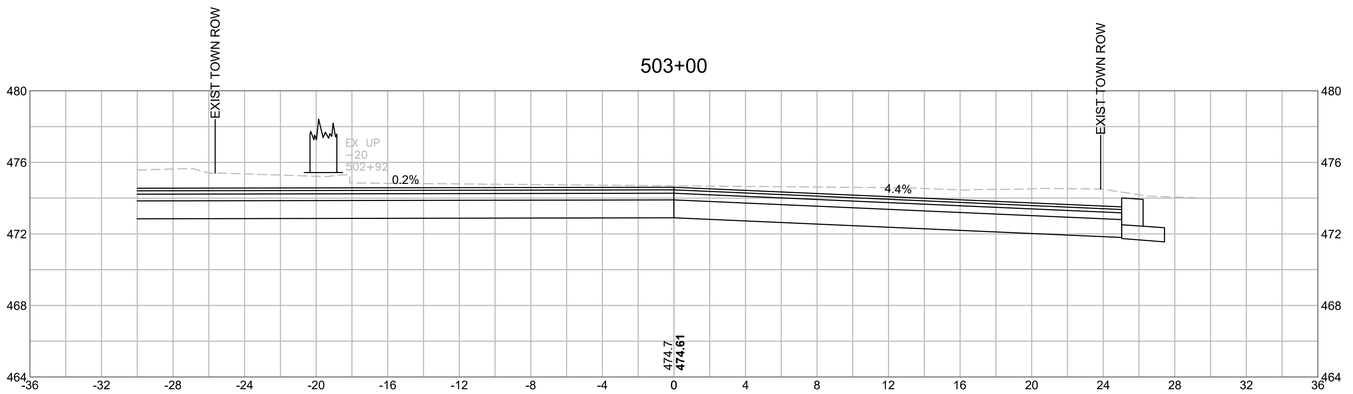
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP/CMQ/HSI-0033(042)X	88	91
PROJECT FILE NO. 608778			

CROSS SECTIONS
CENTRAL STREET

11672.02_HDI\XSEC_CENTRAL).DWG Plotted on 28-May-2025 4:05 PM

GROUND REMOVED: 184.31 SF
GROUND FILL: 8.72 SF





GROUND REMOVED: 126.05 SF
GROUND FILL: 0.00 SF

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

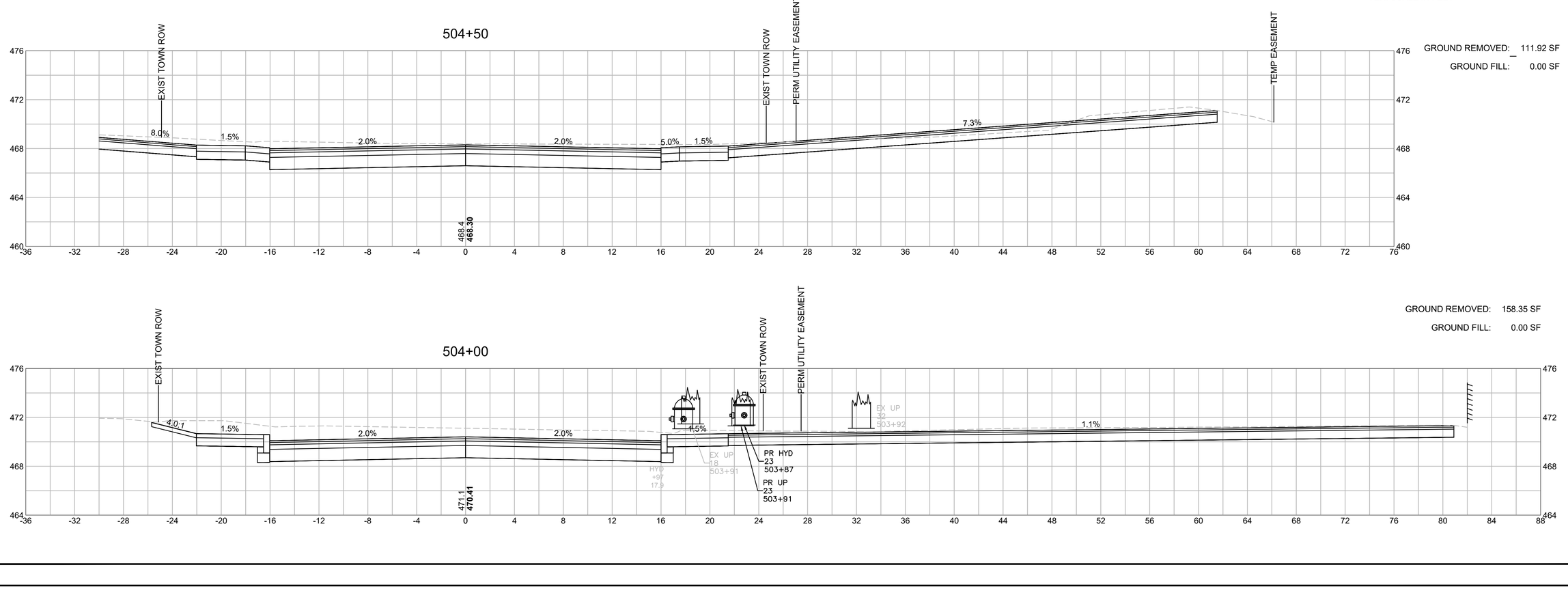
SOUTHBRIDGE
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP/CMQ/HSI-0033(042)X	89	91
PROJECT FILE NO. 608778			

CROSS SECTIONS
CENTRAL STREET

11672.02_HD\XSEC_CENTRAL).DWG Plotted on 28-May-2025 4:05 PM

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



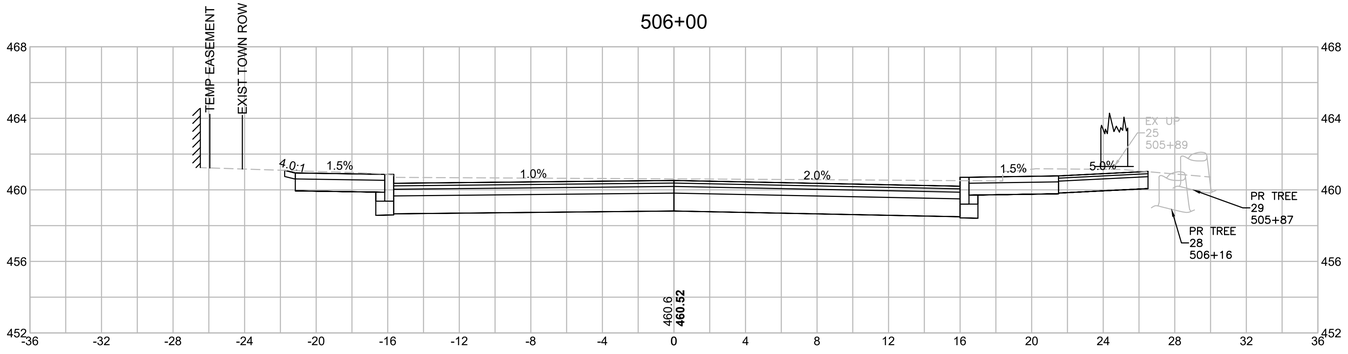
SOUTHBRIDGE
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP/CMQ/HSI-0033(042)X	90	91
PROJECT FILE NO. 608778			

CROSS SECTIONS
CENTRAL STREET

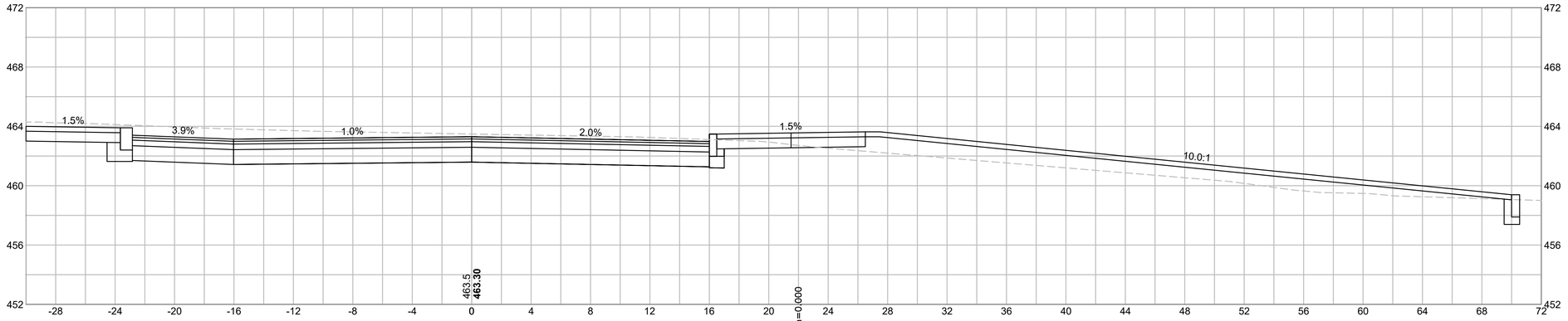
11672.02_HDIXSEC_CENTRAL).DWG Plotted on 28-May-2025 4:05 PM

506+00

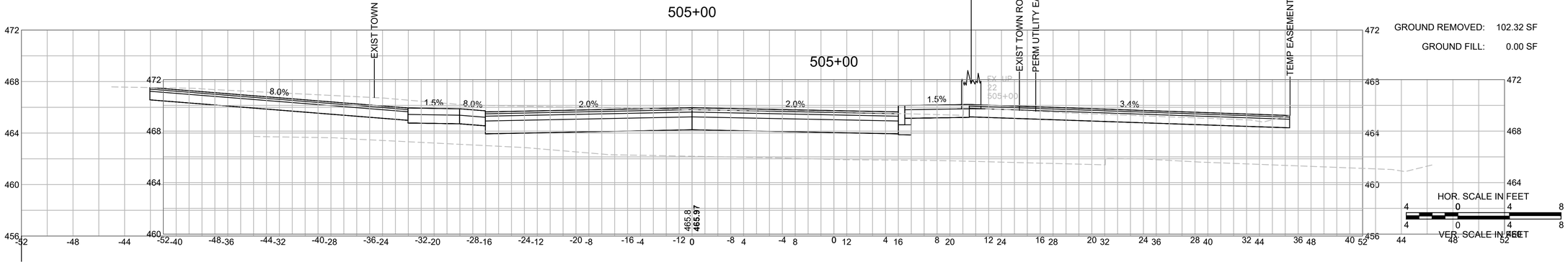


GROUND REMOVED: 74.06 SF
GROUND FILL: 0.00 SF

505+50



505+00



GROUND REMOVED: 102.32 SF
GROUND FILL: 0.00 SF

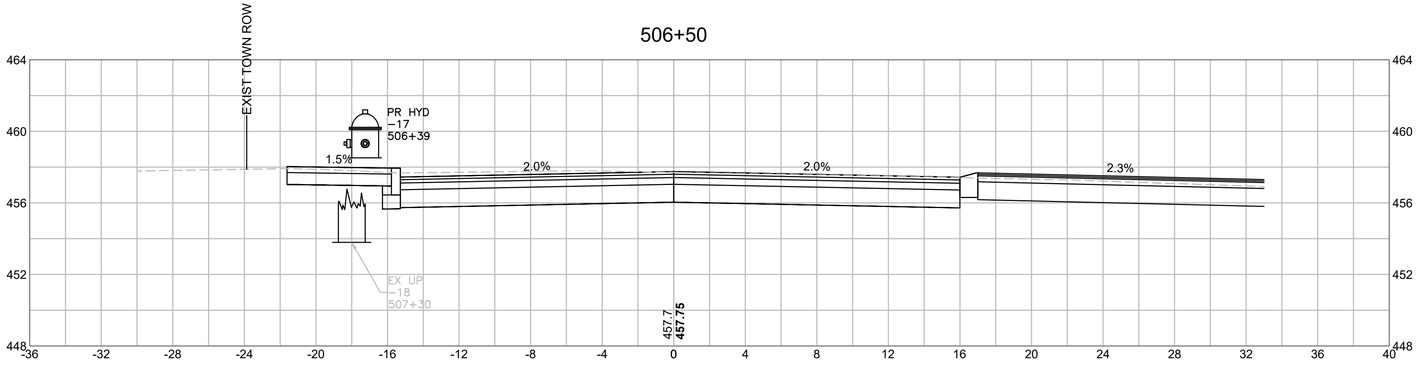
SOUTHBRIDGE
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP/CMQ/HSI-0033(042)X	91	91
PROJECT FILE NO. 608778			

CROSS SECTIONS
CENTRAL STREET

11672.02_HD\XSEC_CENTRAL).DWG Plotted on 28-May-2025 4:05 PM

506+50



GROUND REMOVED: 75.06 SF

GROUND FILL: 0.04 SF

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