MASSACHUSETTS DEPARTMENT OF TRANSPORTATION
HIGHWAY DIVISION

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	1	358
PROJECT FILE NO.	608717		

TITLE SHEET & INDEX

PLAN AND PROFILE OF

SUMNER AVENUE (ROUTE 83)/DICKINSON STREET/ BELMONT AVENUE (ROUTE 83)

IN THE CITY OF

SPRINGFIELD

HAMPDEN COUNTY

FEDERAL AID PROJECT NO. XXXXXXXXXX

100% SUBMITTAL

THESE PLANS ARE SUPPLEMENTED BY THE OCTOBER 2022 CONSTRUCTION STANDARD DETAILS, THE 2015 OVERHEAD SIGNAL STRUCTURE AND FOUNDATION STANDARD DRAWINGS, MASSDOT TRAFFIC MANAGEMENT PLANS AND DETAIL DRAWINGS, THE 1990 STANDARD DRAWINGS FOR SIGNS AND SUPPORTS, THE 1968 STANDARD DRAWINGS FOR TRAFFIC SIGNALS AND HIGHWAY LIGHTING, AND THE LATEST EDITION OF THE AMERICAN STANDARD FOR NURSERY STOCK.

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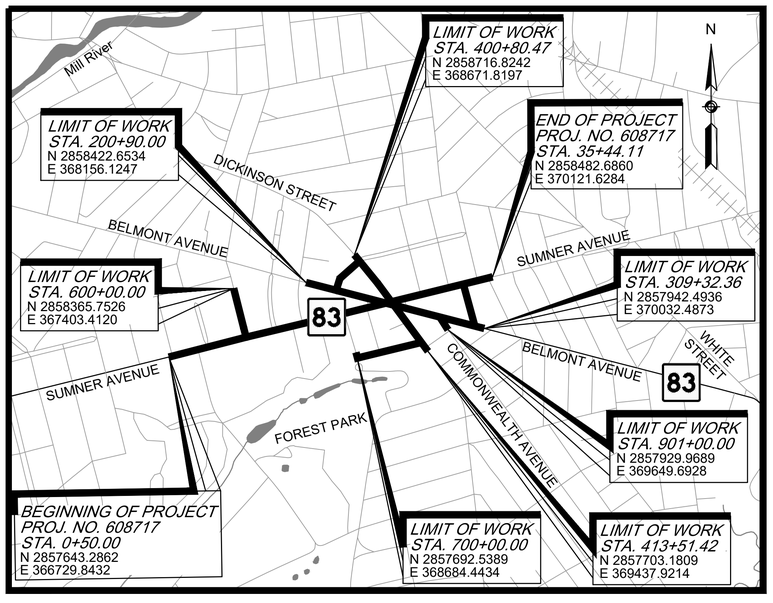

750 0 375 750
SCALE IN FEET

LENGTH OF PROJECT = 3,494.11 FEET = 0.662 MILES (SUMNER AVE)

DESIGN DESIGNATION (SUMNER AVENUE (ROUTE 83))

DESIGN SPEED	30 MPH
ADT (2015)	21,344 vpd
ADT (2035)	26,044 vpd
K	8%
D	54% (WB)
T (PEAK HOUR)	6.7%
T (AVERAGE DAY)	4.5%
DHV	2080 vph
DDHV	1128 vph
FUNCTIONAL CLASSIFICATION	URBAN PRINCIPAL ARTERIAL

DESIGN DESIGNATION (DICKINSON STREET)

DESIGN SPEED	30 MPH
ADT (2015)	7,887 vpd
ADT (2035)	9,624 vpd
K	7.8%
D	54% (NB)
T (PEAK HOUR)	5.7%
T (AVERAGE DAY)	3.0%
DHV	755 vph
DDHV	406 vph
FUNCTIONAL CLASSIFICATION	URBAN MINOR ARTERIAL

DESIGN DESIGNATION (BELMONT AVENUE (ROUTE 83))

DESIGN SPEED	30 MPH
ADT (2015)	8,525 vpd
ADT (2035)	10,402 vpd
K	8.4%
D	50% (EB)
T (PEAK HOUR)	5.8%
T (AVERAGE DAY)	3.6%
DHV	870 vph
DDHV	437 vph
FUNCTIONAL CLASSIFICATION	URBAN PRINCIPAL ARTERIAL

DATE	DESCRIPTION	REV #
5-5-2023	100% SUBMISSION	1
11-11-2021	75% SUBMISSION	1
4-13-2018	25% SUBMISSION	1
11-29-2017	PRE-25% SUBMISSION	0

FUSS & O'NEILL
1550 MAIN STREET, SUITE 400
SPRINGFIELD, MA 01103
413.452.0445
www.fando.com

massDOT
Massachusetts Department of Transportation
Highway Division

APPROVED

CHIEF ENGINEER **DATE**

20121457A70_COV01.DWG Plotted on 5-May-2023 4:58 PM

GENERAL SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
JB	JB	JERSEY BARRIER ON BRIDGE OR JERSEY BARRIER
CB		CATCH BASIN
CBCI		CATCH BASIN CURB INLET
LB		LEACHING BASIN
DI		DROP INLET
CONC. HDR		CONCRETE HEADWALL
STONE HDR		STONE HEADWALL
FP		FLAG POLE
GP		GAS PUMP
MB		MAIL BOX
		POST SQUARE
		POST CIRCULAR
WELL		WELL
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
Ⓒ	Ⓒ	CABLE MANHOLE
Ⓓ	Ⓓ	DRAINAGE MANHOLE
Ⓔ	Ⓔ	ELECTRIC MANHOLE
Ⓖ	Ⓖ	GAS MANHOLE
Ⓜ		MISC MANHOLE
Ⓢ	Ⓢ	SEWER MANHOLE
Ⓣ	Ⓣ	TELEPHONE MANHOLE
Ⓦ	Ⓦ	WATER MANHOLE
MHB	MHB	MASSACHUSETTS HIGHWAY BOUND
MON		MONUMENT
SB		STONE BOUND
TB		TOWN OR CITY BOUND
		TRAVERSE OR TRIANGULATION STATION
TPL or GUY		TROLLEY POLE OR GUY POLE
HTP		TRANSMISSION POLE
UFB		UTILITY POLE W/ FIREBOX
UPDL		UTILITY POLE WITH DOUBLE LIGHT
ULT		UTILITY POLE W / 1 LIGHT
UPL		UTILITY POLE
		BUSH
SIZE & TYPE		TREE
		STUMP
		SWAMP / MARSH
WF—#		WETLAND FLAG
WG	WG	WATER GATE
PM		PARKING METER
		OVERHEAD CABLE/WIRE
		CURBING
		CONTOURS
—99—		UNDERGROUND DRAIN PIPE (DOUBLE LINE 24 INCH AND OVER)
—100—		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)
		BALANCE STONE WALL
		RETAINING WALL
		DOUBLE FACED WALL (CONCRETE OR MASONRY)
		GUARD RAIL - STEEL POSTS
		GUARD RAIL - WOOD POSTS
X	X	CHAIN LINK OR METAL FENCE
		WOOD FENCE (STOCKADE OR PICKET)
		WOOD RAIL FENCE
		HAY BALES/SILT FENCE
		TREE LINE OR LIMIT OF CLEARING AND GRUBBING
		SAWCUT LINE
		TOP OR BOTTOM OF SLOPE
		LIMIT OF EDGE OF PAVEMENT OR COLD PLANE AND OVERLAY
		BANK OF RIVER OR STREAM
		BORDER OF WETLAND
		100 FT WETLAND BUFFER
		200 FT RIVERFRONT BUFFER
		STATE HIGHWAY LAYOUT
		TOWN OR CITY LAYOUT
		COUNTY LAYOUT
		RAILROAD SIDELINE
		TOWN OR CITY BOUNDARY LINE
		PROPERTY LINE OR APPROXIMATE PROPERTY LINE
		EASEMENT

TRAFFIC SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
1	1	CONTROLLER PHASE ACTUATED
		TRAFFIC SIGNAL HEAD (SIZE AS NOTED)
		WIRE LOOP DETECTOR (6' x 6' TYP UNLESS OTHERWISE SPECIFIED)
		VIDEO DETECTION CAMERA
		MICROWAVE DETECTOR
		PEDESTRIAN PUSH BUTTON, SIGN (DIRECTIONAL ARROW AS SHOWN) AND SADDLE
	*	EMERGENCY PREEMPTION CONFIRMATION STROBE LIGHT
		VEHICULAR SIGNAL HEAD
		VEHICULAR SIGNAL HEAD, OPTICALLY PROGRAMMED
		FLASHING BEACON
		PEDESTRIAN SIGNAL HEAD, (TYPE AS NOTED OR AS SPECIFIED)
RRSG	RRSG	RAILROAD SIGNAL
OR		SIGNAL POST AND BASE (ALPHA-NUMERIC DESIGNATION NOTED)
	20'	MAST ARM, SHAFT AND BASE (ARM LENGTH AS NOTED)
		HIGH MAST POLE OR TOWER
		SIGN AND POST
		SIGN AND POST (2 POSTS)
	20'	MAST ARM WITH LUMINAIRE
		OPTICAL PRE-EMPTION DETECTOR
		CONTROL CABINET, GROUND MOUNTED
		CONTROL CABINET, POLE MOUNTED
		FLASHING BEACON CONTROL AND METER PEDESTAL
		LOAD CENTER ASSEMBLY
		PULL BOX 12"x12" (OR AS NOTED)
		ELECTRIC HANDHOLE 12"x24" (OR AS NOTED)
		TRAFFIC SIGNAL CONDUIT

PAVEMENT MARKINGS SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
		PAVEMENT ARROW - WHITE
ONLY	ONLY	LEGEND "ONLY" - WHITE
	SL	12" STOP LINE
	CW	24" CROSSWALK
	SWL	6" SOLID WHITE LINE
	SYL	6" SOLID YELLOW LINE
	BWL	6" BROKEN WHITE LINE (10' MARK - 30' SKIP)
	BYL	6" BROKEN YELLOW LINE (10' MARK - 30' SKIP)
	DWL	6" DOTTED WHITE LINE (2' MARK - 6' SKIP)
	DYL	6" DOTTED YELLOW LINE (2' MARK - 6' SKIP)
	DWLEx	6" DOTTED WHITE LINE EXTENSION (2' MARK - 6' SKIP)
	DYLEx	6" DOTTED YELLOW LINE EXTENSION (2' MARK - 6' SKIP)
	DBWL	6" DOUBLE WHITE LINE
	DBYL	6" DOUBLE YELLOW LINE

TRAFFIC SIGNAL ABBREVIATIONS

CAB.	CABINET
CCVE	CLOSED CIRCUIT VIDEO EQUIPMENT
DW	STEADY DON'T WALK
FDW	FLASHING DON'T WALK
FR	FLASHING CIRCULAR RED
FRL	FLASHING RED LEFT ARROW
FRR	FLASHING RED RIGHT ARROW
FY	FLASHING CIRCULAR AMBER
FYL	FLASHING AMBER LEFT ARROW
FYR	FLASHING AMBER RIGHT ARROW
G	STEADY CIRCULAR GREEN
GL	STEADY GREEN LEFT ARROW
GR	STEADY GREEN RIGHT ARROW
GSL	STEADY GREEN SLASH LEFT ARROW
GSR	STEADY GREEN SLASH RIGHT ARROW
GV	STEADY GREEN VERTICAL ARROW
OL	OVERLAP
PED	PEDESTRIAN
PTZ	PAN, TILE, ZOOM

TRAFFIC SIGNAL ABBREVIATIONS(cont.)

R	STEADY CIRCULAR RED
RL	STEADY RED LEFT ARROW
RR	STEADY RED RIGHT ARROW
TR SIG	TRAFFIC SIGNAL
TSC	TRAFFIC SIGNAL CONDUIT
W	STEADY WALK
Y	STEADY CIRCULAR AMBER
YL	STEADY AMBER LEFT ARROW

ABBREVIATIONS

GENERAL

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

ABBREVIATIONS (cont.)

GENERAL

PVMT	PAVEMENT
PWW	PAVED WATER WAY
R	RADIUS OF CURVATURE
R&D	REMOVE AND DISPOSE
RCP	REINFORCED CONCRETE PIPE
RD	ROAD
RDWY	ROADWAY
REM	REMOVE
RET	RETAIN
RET WALL	RETAINING WALL
ROW	RIGHT OF WAY
RR	RAILROAD
R&R	REMOVE AND RESET
R&S	REMOVE AND STACK
RT	RIGHT
SB	STONE BOUND
SHLD	SHOULDER
SMH	SEWER MANHOLE
ST	STREET
STA	STATION
SSD	STOPPING SIGHT DISTANCE
SHLO	STATE HIGHWAY LAYOUT LINE
SW	SIDEWALK
T	TANGENT DISTANCE OF CURVE/TRUCK %
TAN	TANGENT
TEMP	TEMPORARY
TC	TOP OF CURB
TOS	TOP OF SLOPE
TYP	TYPICAL

ABBREVIATIONS (cont.)

GENERAL

UP	UTILITY POLE
VAR	VARIES
VERT	VERTICAL
VC	VERTICAL CURVE
WG	WATER GATE
WIP	WROUGHT IRON PIPE
WM	WATER METER/WATER MAIN
X-SECT	CROSS SECTION

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	2	358
	PROJECT FILE NO. 608717		

LEGEND & GENERAL NOTES

GENERAL NOTES:

1. INFORMATION REGARDING THE LOCATION OF EXISTING UTILITIES HAS BEEN BASED UPON AVAILABLE INFORMATION AND MAY BE INCOMPLETE, AND WHERE SHOWN SHOULD BE CONSIDERED APPROXIMATE. NO GUARANTEE TO THE ACCURACY OF THE EXISTING UTILITIES FACILITIES SHOWN IN THIS PROJECT IS EXPRESSED OR IMPLIED UNLESS OTHERWISE NOTED. CONTRACTOR SHALL CONTACT "Mass DIG-SAFE", 1-888-344-7233. CONTRACTOR SHALL MAINTAIN MARKINGS WHERE NEEDED DURING PROJECT. ALL UTILITY LOCATIONS THAT DO NOT MATCH THE VERTICAL OR HORIZONTAL CONTROL SHOWN ON THE PLANS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION. THE CONTRACTOR SHALL VERIFY LOCATIONS OF UTILITIES AND SERVICE LATERALS PRIOR TO CONSTRUCTION. ANY CONFLICTS WITH LOCATIONS OF LIGHT POLES, TREES, ETC. SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION PRIOR TO CONSTRUCTION.
2. VERIZON UNDERGROUND TELEPHONE: THE PROPOSED UNDERGROUND TELEPHONE RELOCATIONS AS SHOWN ASSUMES INSUFFICIENT COVER DUE TO PROPOSED ROADWAY WORK. ACTUAL LIMITS OF PROPOSED UNDERGROUND TELEPHONE RELOCATIONS WILL BE DETERMINED IN THE FIELD BY TEST PITS. IF COVER CAN NOT BE ACHIEVED VERIZON PREFERS TO LOWER THE LINES IN PLACE.
3. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY LOCAL AND STATE APPROVALS AND PERMITS PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL CONFORM TO ALL REQUIREMENTS OF THE LOCAL AND STATE AGENCIES. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS AND FEES REQUIRED FOR THIS WORK INCLUDING BUT NOT LIMITED TO CITY SIDEWALK AND EXCAVATION PERMITS AND ASSOCIATED BONDING.
4. THE CONTRACTOR SHALL PROTECT EXISTING UTILITIES AND STRUCTURES. THOSE OF WHICH HAVE BEEN DAMAGED SHALL BE PROMPTLY REPAIRED TO EXISTING OR BETTER CONDITION AT THE CONTRACTOR'S EXPENSE.
5. THE ROADWAY IS TO BE GRADED SMOOTHLY AND EVENLY IN ACCORDANCE WITH THE GRADING AND TIE PLANS, PROFILE, AND CROSS SECTIONS. THE CONTRACTOR IS RESPONSIBLE FOR INSURING A POSITIVE DRAINAGE FLOW TO ALL CATCH BASINS WITHOUT CREATING ANY FLAT SPOTS THAT WILL RESULT IN STANDING WATER.
6. THE CONTRACTOR SHALL COORDINATE WITH PROPERTY OWNERS TO REMOVE ANY PERSONAL ITEMS, LANDSCAPING, PLANT BULBS, PAVERS LOCATED IN THE TEMPORARY EASEMENT, CITY LAYOUT, AND MassDOT LAYOUT.
7. ANY PUBLIC OR PRIVATE PROPERTY DISTURBED AS A RESULT OF CONSTRUCTION OPERATIONS SHALL BE RESTORED AS QUICKLY AS POSSIBLE AND TO THE SATISFACTION OF THE ENGINEER.
8. RIM OR FRAME ELEVATIONS OF ALL UTILITY STRUCTURES SHALL BE ADJUSTED TO MEET FINISHED PAVED SURFACES. PRIVATE UTILITIES WHO ARE RESPONSIBLE FOR ADJUSTING THEIR OWN STRUCTURES SHALL BE NOTIFIED AT LEAST 2 WEEKS IN ADVANCE BY THE CONTRACTOR.
9. STAGING AREAS AND MATERIAL STOCK PILES SHALL BE LIMITED WITHIN THE SITE AND LOCATED SO AS NOT TO INTERFERE WITH PEDESTRIAN OR VEHICULAR TRAFFIC UNLESS APPROVED OTHERWISE BY THE MassDOT AND THE CITY OF SPRINGFIELD. THE CONTRACTOR SHALL PROVIDE SAFETY DEVICES (IF ORDERED BY THE ENGINEER) TO PROTECT STOCK PILES/WORK STAGING AREAS. IF THIS WORK IS SO ORDERED THERE WILL BE NO ADDITIONAL COMPENSATION MADE TO THE CONTRACTOR.
10. HOURS OF WORK SHALL BE DEFINED IN THE CONTRACT DOCUMENTS. THE CITY OF SPRINGFIELD & MassDOT RESERVE THE RIGHT TO ADJUST THESE HOURS IN THE INTEREST OF PUBLIC SAFETY.
11. ACCESS TO PRIVATE PROPERTIES MUST BE MAINTAINED AT ALL TIMES. FOR SECURITY REASONS ALL PRIVATELY OWNED FENCING THAT IS TO BE REMOVED SHALL BE REPLACED WITHIN 72 HOURS OF REMOVAL.
12. INSTALL SEDIMENTATION AND EROSION CONTROL MEASURES PRIOR TO START OF CONSTRUCTION. EXISTING AND PROPOSED CATCH BASINS DOWNGRADE OF ALL WORK AREAS SHALL BE SURROUNDED BY EROSION CONTROL MEASURES DURING CONSTRUCTION.

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SPRINGFIELD
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STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	3	358
	PROJECT FILE NO. 608717		

KEY PLAN & BORING LOCATIONS

N

LIMIT OF WORK
STA 600+00.00
N2858365.7526
E367403.4120

LIMIT OF WORK
STA 201+00.00
N2858420.1479
E368165.8058

LIMIT OF WORK
STA 400+80.47
N2858716.8242
E368671.8197

BEGINNING OF PROJECT
STA. 0+50.00
N 2857643.2862
E 366729.8432

CONSTRUCTION PLAN SHEET 32
MARKING PLAN SHEET 100

CONSTRUCTION PLAN SHEET 25
MARKING PLAN SHEET 93

CHURCHILL STREET (PUBLIC)
SUMNER TERRACE (PUBLIC)
OAKLAND STREET (PUBLIC)
KENWOOD TERRACE (PUBLIC)
BEAUMONT STREET (PUBLIC)
BELMONT AVENUE (PUBLIC)
BURLINGTON STREET (PUBLIC)
DICKINSON STREET (PUBLIC)
SUMNER AVENUE (ROUTE 83) (PUBLIC)
MAIN GREETING ROAD (PUBLIC)
CONTINENTAL STREET (PUBLIC)
PARKWOOD STREET (PUBLIC)
CLIFTWOOD STREET (PUBLIC)
LENOX STREET (PUBLIC)

PAVEMENT CORE C-6
PAVEMENT CORE C-4
PAVEMENT CORE C-1
BORING B-1
BORING B-2
BORING B-4
BORING B-5
BORING B-6
BORING B-7

600+00 601 602 603 605+39.50
200+00 250+00 400+00 208+20.94
700+00 701 702 703 704 705
254+23.80

CONTINUED ON SHEET NO. 4
CONTINUED ON SHEET NO. 4

CONSTRUCTION PLAN SHEET 26
MARKING PLAN SHEET 94
CONSTRUCTION PLAN SHEET 27
MARKING PLAN SHEET 95
CONSTRUCTION PLAN SHEET 28
MARKING PLAN SHEET 96
CONSTRUCTION PLAN SHEET 29
MARKING PLAN SHEET 97
CONSTRUCTION PLAN SHEET 30
MARKING PLAN SHEET 98

LIMIT OF WORK
STA 700+00.00
N2857692.5389
E368684.4434

CONSTRUCTION PLAN SHEET 17
MARKING PLAN SHEET 85

CONSTRUCTION PLAN SHEET 18
MARKING PLAN SHEET 86

CONSTRUCTION PLAN SHEET 19
MARKING PLAN SHEET 87

CONSTRUCTION PLAN SHEET 20
MARKING PLAN SHEET 88

CONSTRUCTION PLAN SHEET 21
MARKING PLAN SHEET 89

CONSTRUCTION PLAN SHEET 34
MARKING PLAN SHEET 102

CONSTRUCTION PLAN SHEET 33
MARKING PLAN SHEET 101

0 80 200 300
SCALE: 1" = 80'

20121457A70_KEY01.DWG Plotted on 5-May-2023 2:21 PM

SPRINGFIELD
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	PROJECT FILE NO.	608717	

KEY PLAN & BORING LOCATIONS

20121457A70_KEY01.DWG Plotted on 5-May-2023 2:21 PM

N

LIMIT OF WORK
STA 201+00.00
N2858420.1479
E368165.8058

LIMIT OF WORK
STA 400+80.47
N2858716.8242
E368671.8197

END OF PROJECT
STA. 35+44.11
N 2858482.6860
E 370121.6284

LIMIT OF WORK
STA 700+00.00
N2857692.5389
E368684.4434

LIMIT OF WORK
STA 413+51.42
N2857703.1809
E369437.9214

LIMIT OF WORK
STA 901+00.00
N2857929.9689
E369649.6928

LIMIT OF WORK
STA 309+32.36
N2857942.4936
E370032.4873

BEAUMONT STREET (PUBLIC)
BELMONT AVENUE (PUBLIC)
BURLINGTON STREET (PUBLIC)
DICKINSON STREET (PUBLIC)
GRENADA TERRACE (PUBLIC)
VENTURA STREET (PUBLIC)
SORRENTO STREET (PUBLIC)
POMONA STREET (PUBLIC)
SUMNER AVENUE (PUBLIC)
DAYTONA STREET (PUBLIC)
ORMOND STREET (PUBLIC)
BELMONT AVENUE (ROUTE 83) (PUBLIC)
COMMONWEALTH AVENUE (PUBLIC)
TRENTON STREET (PUBLIC)
CLIFTWOOD STREET (PUBLIC)
PARKWOOD STREET (PUBLIC)
LENOX STREET (PUBLIC)
CONTINENTAL STREET (PUBLIC)

PAVEMENT CORE C-6
PAVEMENT CORE C-4
PAVEMENT CORE C-2
PAVEMENT CORE C-5
PAVEMENT CORE C-3
PAVEMENT CORE C-8
PAVEMENT CORE C-9

BORING B-4
BORING B-5
BORING B-6
BORING B-7
BORING B-8
BORING B-9
BORING B-10
BORING B-11

208+20.94
254+23.80
353+14.14
350+00
902+45.21
504+53.65
707+59.86
414+40.71

CONSTRUCTION PLAN SHEET 25
MARKING PLAN SHEET 93
CONSTRUCTION PLAN SHEET 29
MARKING PLAN SHEET 97
CONSTRUCTION PLAN SHEET 23
MARKING PLAN SHEET 91
CONSTRUCTION PLAN SHEET 24
MARKING PLAN SHEET 92
CONSTRUCTION PLAN SHEET 26
MARKING PLAN SHEET 94
CONSTRUCTION PLAN SHEET 31
MARKING PLAN SHEET 99
CONSTRUCTION PLAN SHEET 28
MARKING PLAN SHEET 96
CONSTRUCTION PLAN SHEET 27
MARKING PLAN SHEET 95
CONSTRUCTION PLAN SHEET 30
MARKING PLAN SHEET 98
CONSTRUCTION PLAN SHEET 20
MARKING PLAN SHEET 88
CONSTRUCTION PLAN SHEET 21
MARKING PLAN SHEET 89
CONSTRUCTION PLAN SHEET 22
MARKING PLAN SHEET 90
CONSTRUCTION PLAN SHEET 34
MARKING PLAN SHEET 102
CONSTRUCTION PLAN SHEET 33
MARKING PLAN SHEET 101

CONTINUED ON SHEET NO. 3
CONTINUED ON SHEET NO. 3

0 80 200 300
SCALE: 1" = 80'

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	5	358
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BORING LOGS

Client: Fuss & O'Neill
Location: The "X" Spfld. MA.
Project: Soil and Pavement Cores
Contractor: Seaboard Drilling, Inc.

SEABOARD DRILLING, INC.
649 Meadow St., Chicopee, MA 01013
DRILLING/SOIL LOG

Test Borin B-1
Monitor Well ID:
Sheet No. 1 of 1

	Casing		Core Barrel
Type	HSA	SS	N/A
O.D. Inch	8-1/2"		
I.D. Inch	4-1/4"		

Hammer (Weight-lb./fall-30") 140/30 300/24
Rig Type: B-53
Start: 5/8/2017
Finish: 5/8/2017
Driller: Jeff Nitch

Depth (ft.) Range	Blows	Sample No.	Recovery	FIELD CLASSIFICATIONS AND REMARKS
0'-2'	3-6-5-4	S-1	17"	Moist Brown Fine SAND, Little Silt, Trace Coarse SAND, Trace Gravel.
5'-7'	1-1-1-3	S-2	19"	Dry Brown Fine SAND, Trace Coarse SAND, Trace Organics.
10'-12'	4-5-6-10	S-3	15"	Dry Brown Fine SAND, Little Coarse SAND. Wet @ +/- 14' 4"
15'-17'	4-6-9-10	S-4	23"	Wet Brown Fine SAND.
20'-22'	5-7-9-16	S-5	24"	Wet Brown Fine SAND, Trace Silt.
25'-27'	5-8-16-20	S-6	23"	Wet Brown Fine SAND, Trace Silt. E.O.B @ 27'

SAMPLE PENETRATION RESISTANCE - 140 lb. Wt. Falling 30" on 2" O.D. sampler

Density (# Hammer Blows)		Cohesive Consistence (# Hammer Blows)				PROPORTIONS	
0-4	Very Loose	0-2	Very Soft	3-4	Soft	Trace	0 to 10%
5-9	Loose	5-8	Medium-Stiff	9-15	Stiff	Little	10 to 20%
10-29	Medium-Dense	16-30	Very Stiff	31+	Hard	Some	20 to 35%
30-49	Dense					and	30 to 50%
50+	Very Dense						

BORING 1
N 2857815.57 E 367556.94
GROUND ELEVATION = 185.93'

Client: Fuss & O'Neill
Location: The "X" Spfld. MA.
Project: Soil and Pavement Cores
Contractor: Seaboard Drilling, Inc.

SEABOARD DRILLING, INC.
649 Meadow St., Chicopee, MA 01013
DRILLING/SOIL LOG

Test Borin B-2
Monitor Well ID:
Sheet No. 1 of 1

	Casing		Core Barrel
Type	HSA	SS	N/A
O.D. Inch	8-1/2"		
I.D. Inch	4-1/4"		

Hammer (Weight-lb./fall-30") 140/30 300/24
Rig Type: B-53
Start: 5/8/2017
Finish: 5/8/2017
Driller: Jeff Nitch

Depth (ft.) Range	Blows	Sample No.	Recovery	FIELD CLASSIFICATIONS AND REMARKS
0'-2'	4-5-5-4	S-1	18"	Dry Brown Fine SAND, Trace Coarse SAND, Trace Gravel, Trace Silt.
5'-7'	1-2-1-4	S-2	16"	Dry Brown Fine SAND, Trace Silt.
10'-12'	3-4-4-4	S-3	15"	Dry Brown Fine SAND, Trace Coarse SAND, Trace Silt. Wet @ +/- 14'
15'-17'	4-6-9-9	S-4	23"	Wet Brown Fine SAND, Trace Silt.
20'-22'	6-7-12-7	S-5	24"	Wet Brown Fine SAND, Trace Silt.
25'-27'	5-6-8-8	S-6	24"	Wet Brown Fine SAND, Trace Silt. E.O.B @ 27'

SAMPLE PENETRATION RESISTANCE - 140 lb. Wt. Falling 30" on 2" O.D. sampler

Density (# Hammer Blows)		Cohesive Consistence (# Hammer Blows)				PROPORTIONS	
0-4	Very Loose	0-2	Very Soft	3-4	Soft	Trace	0 to 10%
5-9	Loose	5-8	Medium-Stiff	9-15	Stiff	Little	10 to 20%
10-29	Medium-Dense	16-30	Very Stiff	31+	Hard	Some	20 to 35%
30-49	Dense					and	30 to 50%
50+	Very Dense						

BORING 2
N 285763.11 E 367463.95
GROUND ELEVATION = 185.65'

Client: Fuss & O'Neill
Location: The "X" Spfld. MA.
Project: Soil and Pavement Cores
Contractor: Seaboard Drilling, Inc.

SEABOARD DRILLING, INC.
649 Meadow St., Chicopee, MA 01013
DRILLING/SOIL LOG

Test Borin B-4
Monitor Well ID:
Sheet No. 1 of 1

	Casing		Core Barrel
Type	HSA	SS	N/A
O.D. Inch	8-1/2"		
I.D. Inch	4-1/4"		

Hammer (Weight-lb./fall-30") 140/30 300/24
Rig Type: B-53
Start: 5/8/2017
Finish: 5/8/2017
Driller: Jeff Nitch

Depth (ft.) Range	Blows	Sample No.	Recovery	FIELD CLASSIFICATIONS AND REMARKS
0'-2'	4-8-12-9	S-1	17"	Dry Brown Fine and Coarse SAND and Gravel.
5'-7'	5-7-10-10	S-2	14"	Dry Brown Fine SAND.
10'-12'	5-8-10-10	S-3	16"	Dry Brown Fine SAND.
15'-17'	4-4-5-5	S-4	18"	Dry Brown Fine SAND.
20'-22'	5-5-5-5	S-5	20"	Wet Brown Fine SAND.
25'-27'	6-6-8-11	S-6	24"	Wet Brown Fine SAND, Trace Coarse SAND. E.O.B @ 27'

SAMPLE PENETRATION RESISTANCE - 140 lb. Wt. Falling 30" on 2" O.D. sampler

Density (# Hammer Blows)		Cohesive Consistence (# Hammer Blows)				PROPORTIONS	
0-4	Very Loose	0-2	Very Soft	3-4	Soft	Trace	0 to 10%
5-9	Loose	5-8	Medium-Stiff	9-15	Stiff	Little	10 to 20%
10-29	Medium-Dense	16-30	Very Stiff	31+	Hard	Some	20 to 35%
30-49	Dense					and	30 to 50%
50+	Very Dense						

BORING 4
N 2858136.84 E 368576.52
GROUND ELEVATION = 188.53'

Client: Fuss & O'Neill
Location: The "X" Spfld. MA.
Project: Soil and Pavement Cores
Contractor: Seaboard Drilling, Inc.

SEABOARD DRILLING, INC.
649 Meadow St., Chicopee, MA 01013
DRILLING/SOIL LOG

Test Borin B-5
Monitor Well ID:
Sheet No. 1 of 1

	Casing		Core Barrel
Type	HSA	SS	N/A
O.D. Inch	8-1/2"		
I.D. Inch	4-1/4"		

Hammer (Weight-lb./fall-30") 140/30 300/24
Rig Type: B-53
Start: 5/8/2017
Finish: 5/8/2017
Driller: Jeff Nitch

Depth (ft.) Range	Blows	Sample No.	Recovery	FIELD CLASSIFICATIONS AND REMARKS
0'-2'	3-4-5-5	S-1	18"	Dry Brown Fine SAND, Trace Organics, Trace Silt.
5'-7'	4-5-7-7	S-2	17"	Dry Brown Fine SAND, Trace Silt.
10'-12'	4-5-5-8	S-3	20"	Dry Brown Fine SAND, Trace Silt.
15'-17'	5-7-6-6	S-4	15"	Dry Brown Fine SAND, Trace Silt.
20'-22'	6-9-8-8	S-5	19"	Wet Brown Fine SAND, Trace Silt.
25'-27'	5-12-15-17	S-6	24"	Wet Brown Fine SAND, Little Silt. E.O.B @ 27'

SAMPLE PENETRATION RESISTANCE - 140 lb. Wt. Falling 30" on 2" O.D. sampler

Density (# Hammer Blows)		Cohesive Consistence (# Hammer Blows)				PROPORTIONS	
0-4	Very Loose	0-2	Very Soft	3-4	Soft	Trace	0 to 10%
5-9	Loose	5-8	Medium-Stiff	9-15	Stiff	Little	10 to 20%
10-29	Medium-Dense	16-30	Very Stiff	31+	Hard	Some	20 to 35%
30-49	Dense					and	30 to 50%
50+	Very Dense						

BORING 5
N 2858069.19 E 368608.47
GROUND ELEVATION = 188.12'

Client: Fuss & O'Neill
Location: The "X" Spfld. MA.
Project: Soil and Pavement Cores
Contractor: Seaboard Drilling, Inc.

SEABOARD DRILLING, INC.
649 Meadow St., Chicopee, MA 01013
DRILLING/SOIL LOG

Test Borin B-6
Monitor Well ID:
Sheet No. 1 of 1

	Casing		Core Barrel
Type	HSA	SS	N/A
O.D. Inch	8-1/2"		
I.D. Inch	4-1/4"		

Hammer (Weight-lb./fall-30") 140/30 300/24
Rig Type: B-53
Start: 5/9/2017
Finish: 5/9/2017
Driller: Jeff Nitch

Depth (ft.) Range	Blows	Sample No.	Recovery	FIELD CLASSIFICATIONS AND REMARKS
1'-3'	18-9-7-10	S-1	17"	Dry Brown Fine SAND, Trace Coarse SAND, Trace Gravel, Trace Silt.
5'-7'	9-12-12-13	S-2	8"	Dry Brown Fine SAND, Trace Coarse SAND.
10'-12'	8-8-9-9	S-3	10"	Dry Brown Fine SAND.
15'-17'	4-7-8-11	S-4	20"	Dry Brown Medium SAND, Little Fine SAND.
20'-22'	4-6-6-8	S-5	23"	Wet Brown Fine SAND, Trace Coarse SAND, Trace Silt.
25'-27'	4-7-9-14	S-6	24"	Wet Brown Fine SAND, Trace Coarse SAND, Trace Silt. E.O.B @ 27'

SAMPLE PENETRATION RESISTANCE - 140 lb. Wt. Falling 30" on 2" O.D. sampler

Density (# Hammer Blows)		Cohesive Consistence (# Hammer Blows)				PROPORTIONS	
0-4	Very Loose	0-2	Very Soft	3-4	Soft	Trace	0 to 10%
5-9	Loose	5-8	Medium-Stiff	9-15	Stiff	Little	10 to 20%
10-29	Medium-Dense	16-30	Very Stiff	31+	Hard	Some	20 to 35%
30-49	Dense					and	30 to 50%
50+	Very Dense						

BORING 6
N 2858241.88 E 368984.67
GROUND ELEVATION = 186.89'

Client: Fuss & O'Neill
Location: The "X" Spfld. MA.
Project: Soil and Pavement Cores
Contractor: Seaboard Drilling, Inc.

SEABOARD DRILLING, INC.
649 Meadow St., Chicopee, MA 01013
DRILLING/SOIL LOG

Test Borin B-7
Monitor Well ID:
Sheet No. 1 of 1

	Casing		Core Barrel
Type	HSA	SS	N/A
O.D. Inch	8-1/2"		
I.D. Inch	4-1/4"		

Hammer (Weight-lb./fall-30") 140/30 300/24
Rig Type: B-53
Start: 5/8/2017
Finish: 5/8/2017
Driller: Jeff Nitch

Depth (ft.) Range	Blows	Sample No.	Recovery	FIELD CLASSIFICATIONS AND REMARKS
1'-3'	7-9-11-7	S-1	13"	5" Asphalt Moist Brown Fine and Coarse SAND and Gravel, Trace Silt.
5'-7'	4-8-8-9	S-2	3"	Moist Brown Fine and Coarse SAND and Gravel, Trace Silt.
10'-12'	7-8-10-10	S-3	6"	Dry Brown Fine SAND, Trace Silt.
15'-17'	5-7-7-7	S-4	19"	Dry Gray Brown Fine SAND, Little Silt. Wet @ +/- 18' - 19'
20'-22'	4-5-9-9	S-5	23"	Wet Brown Fine SAND, Trace Coarse SAND, Trace Gravel, Trace Silt.
25'-27'	4-6-18-19	S-6	24"	Wet Brown Fine SAND, Trace Silt. E.O.B @ 27'

SAMPLE PENETRATION RESISTANCE - 140 lb. Wt. Falling 30" on 2" O.D. sampler

Density (# Hammer Blows)		Cohesive Consistence (# Hammer Blows)				PROPORTIONS	
0-4	Very Loose	0-2	Very Soft	3-4	Soft	Trace	0 to 10%
5-9	Loose	5-8	Medium-Stiff	9-15	Stiff	Little	10 to 20%
10-29	Medium-Dense	16-30	Very Stiff	31+	Hard	Some	20 to 35%
30-49	Dense					and	30 to 50%
50+	Very Dense						

BORING 7
N 2858173.53 E 369061.92
GROUND ELEVATION = 186.73'

MAST ARM AND STRAIN POLE LOCATION KEY

NO.	STATION/OFFSET	INTERSECTION	MAST ARM SIZE (FT)	DIAMETER	WIND SPEED	SOIL BORING NO.	SOIL TYPE	FOUNDATION DEPTH
1	8+87.06/35.00 RT	SUMNER AVE / OAKLAND ST	35	3'-6"	110 MPH	B-1	LOOSE DRY SAND	11'-6"
2	8+38.01/37.32' LT	SUMNER AVE / OAKLAND ST	25	3'-6"	110 MPH	B-2	LOOSE DRY SAND	9'-0"
3	9+21.68/36.65' LT	SUMNER AVE / OAKLAND ST	15	3'-6"	110 MPH	B-2	LOOSE DRY SAND	8'-6"
4	19+50.65/40.25 LT	SUMNER AVE / CLIFTWOOD ST	15	3'-6"	110 MPH	B-4	LOOSE DRY SAND	8'-6"
5	18+99.38/35.50' LT	SUMNER AVE / CLIFTWOOD ST	25	3'-6"	110 MPH	B-4	LOOSE DRY SAND	9'-0"
6	19+64.11/37.72 RT	SUMNER AVE / CLIFTWOOD ST	40	3'-6"	110 MPH	B-5	LOOSE DRY SAND	11'-6"
7	24+05.30/37.75 LT	SUMNER AVE / DICKINSON ST	40	3'-6"	110 MPH	B-6	LOOSE DRY SAND	11'-6"
8	24+29.43/54.56 RT	SUMNER AVE / DICKINSON ST	40	3'-6"	110 MPH	B-7	LOOSE DRY SAND	11'-6"

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Client: Fuss & O'Neill
Location: The "X" Spfld. MA.
Project: Soil and Pavement Cores
Contractor: Seaboard Drilling, Inc.

SEABOARD DRILLING, INC.
649 Meadow St., Chicopee, MA 01013
DRILLING/SOIL LOG

Test Borin B-8
Monitor Well ID:
Sheet No. 1 of 1

	Casing		Core Barrel
Type	HSA	SS	N/A
O.D. Inch	8-1/2"		
I.D. Inch	4-1/4"		

Hammer (Weight-lb./fall-30") 140/30 300/24
Rig Type: B-53
Start: 5/18/2017
Finish: 5/18/2017
Driller: Jeff Nitch

Depth (ft.) Range	Blows	Sample No.	Recovery	FIELD CLASSIFICATIONS AND REMARKS
0'-2'	1-4-14-23	S-1	17"	Moist Brown Fine SAND and Gravel, Little Coarse SAND, Trace Silt.
5'-7'	4-5-6-7	S-2	16"	Dry Brown Fine and Coarse SAND, Trace Gravel.
10'-12'	7-9-9-11	S-3	7"	Dry Brown Fine SAND, Trace Silt.
15'-17'	4-7-7-8	S-4	22"	Dry Brown Fine SAND, Trace Silt.
20'-22'	3-5-7-8	S-5	15"	Wet Brown Fine SAND, Little Silt, Trace Coarse SAND.
25'-27'	7-8-9-11	S-6	23"	Wet Brown Fine SAND, Trace Coarse SAND, Trace Silt. E.O.B @ 27'

SAMPLE PENETRATION RESISTANCE - 140 lb. Wt. Falling 30" on 2" O.D. sampler

Density (# Hammer Blows)		Cohesive Consistence (# Hammer Blows)				PROPORTIONS	
0-4	Very Loose	0-2	Very Soft	3-4	Soft	Trace	0 to 10%
5-9	Loose	5-8	Medium-Stiff	9-15	Stiff	Little	10 to 20%
10-29	Medium-Dense	16-30	Very Stiff	31+	Hard	Some	20 to 35%
30-49	Dense					and	30 to 50%
50+	Very Dense						

BORING 8
N 2858214.64 E 369171.23
GROUND ELEVATION = 188.02'

Client: Fuss & O'Neill
Location: The "X" Spfld. MA.
Project: Soil and Pavement Cores
Contractor: Seaboard Drilling, Inc.

SEABOARD DRILLING, INC.
649 Meadow St., Chicopee, MA 01013
DRILLING/SOIL LOG

Test Borin B-9
Monitor Well ID:
Sheet No. 1 of 1

	Casing		Core Barrel
Type	HSA	SS	N/A
O.D. Inch	8-1/2"		
I.D. Inch	4-1/4"		

Hammer (Weight-lb./fall-30") 140/30 300/24
Rig Type: B-53
Start: 5/8/2017
Finish: 5/8/2017
Driller: Jeff Nitch

Depth (ft.) Range	Blows	Sample No.	Recovery	FIELD CLASSIFICATIONS AND REMARKS
0'-2'	4-2-2-2	S-1	13"	Dry Brown Fine SAND, Trace Coarse SAND, Trace Gravel, Trace Silt.
5'-7'	3-5-5-7	S-2	16"	Dry Brown Fine SAND, Trace Silt.
10'-12'	4-5-6-8	S-3	19"	Dry Brown Fine SAND, Trace Silt.
15'-17'	3-5-8-9	S-4	19"	Dry Brown Fine SAND, Trace Silt. Wet @ +/- 19' - 20'
20'-22'	5-8-13-14	S-5	23"	Wet Brown Fine SAND, Trace Silt.
25'-27'	6-7-13-18	S-6	24"	Wet Brown Fine SAND, Trace Coarse SAND, Trace Gravel, Trace Silt. E.O.B @ 27'

SAMPLE PENETRATION RESISTANCE - 140 lb. Wt. Falling 30" on 2" O.D. sampler

Density (# Hammer Blows)		Cohesive Consistence (# Hammer Blows)				PROPORTIONS	
0-4	Very Loose	0-2	Very Soft	3-4	Soft	Trace	0 to 10%
5-9	Loose	5-8	Medium-Stiff	9-15	Stiff	Little	10 to 20%
10-29	Medium-Dense	16-30	Very Stiff	31+	Hard	Some	20 to 35%
30-49	Dense					and	30 to 50%
50+	Very Dense						

BORING 9
N 2858267.51 E 369065.54
GROUND ELEVATION = 186.93'

Client: Fuss & O'Neill
Location: The "X" Spfld. MA.
Project: Soil and Pavement Cores
Contractor: Seaboard Drilling, Inc.

SEABOARD DRILLING, INC.
649 Meadow St., Chicopee, MA 01013
DRILLING/SOIL LOG

Test Borin B-10
Monitor Well ID:
Sheet No. 1 of 1

	Casing		Core Barrel
Type	HSA	SS	N/A
O.D. Inch	8-1/2"		
I.D. Inch	4-1/4"		

Hammer (Weight-lb./fall-30")
Rig Type: B-53
Start: 5/8/2017
Finish: 5/8/2017
Driller: Jeff Nitch

Depth (ft.) Range	Blows	Sample No.	Recovery	FIELD CLASSIFICATIONS AND REMARKS
0'-2'	3-2-2-2	S-1	9"	Dry Brown Fine SAND, Trace Coarse SAND, Trace Silt.
5'-7'	3-3-4-6	S-2	14"	Dry Brown Fine and Coarse SAND, Trace Gravel, Trace Silt.
10'-12'	6-7-8-8	S-3	16"	Dry Brown Fine SAND, Trace Coarse SAND.
15'-17'	4-5-7-10	S-4	16"	Moist Brown Fine SAND Wet @ =/- 19'
20'-22'	5-8-9-10	S-5	23"	Wet Brown Fine SAND, Trace Silt.
25'-27'	5-7-24-33	S-6	24"	Top 20": Wet Brown Fine SAND, Trace Silt. Bottom 4": Wet Brown Silt and Fine SAND. E.O.B @ 27'

SAMPLE PENETRATION RESISTANCE - 140 lb. Wt. Falling 30" on 2" O.D. sampler

Density (# Hammer Blows)		Cohesive Consistence (# Hammer Blows)				PROPORTIONS	
0-4	Very Loose	0-2	Very Soft	3-4	Soft	Trace	0 to 10%
5-9	Loose	5-8	Medium-Stiff	9-15	Stiff	Little	10 to 20%
10-29	Medium-Dense	16-30	Very Stiff	31+	Hard	Some	20 to 35%
30-49	Dense					and	30 to 50%
50+	Very Dense						

BORING 10
N 2858440.01 E 369806.75
GROUND ELEVATION = 190.00'

Client: Fuss & O'Neill
Location: The "X" Spfld. MA.
Project: Soil and Pavement Cores
Contractor: Seaboard Drilling, Inc.

SEABOARD DRILLING, INC.
649 Meadow St., Chicopee, MA 01013
DRILLING/SOIL LOG

Test Borin B-11
Monitor Well ID:
Sheet No. 1 of 1

	Casing		Core Barrel
Type	HSA	SS	N/A
O.D. Inch	8-1/2"		
I.D. Inch	4-1/4"		

Hammer (Weight-lb./fall-30") 140/30 300/24
Rig Type: B-53
Start: 5/8/2017
Finish: 5/8/2017
Driller: Jeff Nitch

Depth (ft.) Range	Blows	Sample No.	Recovery	FIELD CLASSIFICATIONS AND REMARKS
0'-2'	2-3-5-6	S-1	17"	Dry Brown Fine SAND, Little Silt, Trace Coarse SAND, Trace Organic Material.
5'-7'	5-5-8-10	S-2	17"	Dry Brown Fine SAND, Trace Coarse SAND, Trace Silt.
10'-12'	5-6-8-10	S-3	20"	Moist Brown Fine SAND, Trace Silt.
15'-17'	6-9-10-12	S-4	10"	Moist Brown Fine SAND, Trace Silt. Wet @ =/- 19'
20'-22'	4-6-10-12	S-5	22"	Wet Brown Fine SAND.
25'-27'	4-6-11-13	S-6	24"	Wet Brown Fine SAND, Trace Coarse SAND, Trace Gravel. E.O.B @ 27'

SAMPLE PENETRATION RESISTANCE - 140 lb. Wt. Falling 30" on 2" O.D. sampler

Density (# Hammer Blows)		Cohesive Consistence (# Hammer Blows)				PROPORTIONS	
0-4	Very Loose	0-2	Very Soft	3-4	Soft	Trace	0 to 10%
5-9	Loose	5-8	Medium-Stiff	9-15	Stiff	Little	10 to 20%
10-29	Medium-Dense	16-30	Very Stiff	31+	Hard	Some	20 to 35%
30-49	Dense					and	30 to 50%
50+	Very Dense						

BORING 11
N 2858376.78 E 369859.81
GROUND ELEVATION = 189.90'

MAST ARM AND STRAIN POLE LOCATION KEY

NO.	STATION/OFFSET	INTERSECTION	MAST ARM SIZE (FT)	DIAMETER	WIND SPEED	SOIL BORING NO.	SOIL TYPE	FOUNDATION DEPTH
9	24+99.29/39.02 RT	SUMNER AVE / DICKINSON ST	30	3'-6"	110 MPH	B-8	LOOSE DRY SAND	9'-0"
10	24+59.32/50.40 LT	SUMNER AVE / DICKINSON ST	25	3'-6"	110 MPH	B-9	LOOSE DRY SAND	11'-6"
11	32+20.01/32.30 LT	SUMNER AVE / ORMOND ST	25	3'-6"	110 MPH	B-10	LOOSE DRY SAND	9'-0"
12	32+26.87/32.30' LT	SUMNER AVE / ORMOND ST	15	3'-6"	110 MPH	B-10	LOOSE DRY SAND	8'-6"
13	32+70.47/36.65 RT	SUMNER AVE / ORMOND ST	30	3'-6"	110 MPH	B-11	LOOSE DRY SAND	9'-0"

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	6	358
	PROJECT FILE NO. 608717		

BORING LOGS

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GENERAL PAVEMENT NOTES:

THE GENERAL NOTES BELOW APPLY TO ALL SIDEWALKS AND DRIVEWAYS WITHIN PROJECT PROJECT LIMITS

PROPOSED CEMENT CONCRETE SHARED-USE PATH & SIDEWALK

SURFACE: 4" CEMENT CONCRETE
AIR ENTRAINED 4000psi, 3/4", 610

SUBBASE: 8" GRAVEL BORROW, TYPE b.

PROPOSED CEMENT CONCRETE PEDESTRIAN CURB RAMP

SURFACE: 6" CEMENT CONCRETE
AIR ENTRAINED 4000psi, 3/4", 610

WIRE MESH: PLACE 6"X 6" #10/10 WELDED WIRE MESH AT MIDPT. OF CONC. THICKNESS

SUBBASE: 8" GRAVEL BORROW, TYPE b.

PROPOSED HOT MIX ASPHALT DRIVEWAY

SURFACE: 1-1/2" SUPERPAVE SURFACE COURSE - 9.5 OVER
2-1/2" SUPERPAVE INTERMEDIATE COURSE - 12.5

SUBBASE: 8" GRAVEL BORROW, TYPE b.

PROPOSED HOT MIX ASPHALT SHARED-USE PATH AND SIDEWALK FULL DEPTH PAVEMENT

SURFACE: 1-1/2" SUPERPAVE SURFACE COURSE - 9.5 OVER
2-1/2" SUPERPAVE INTERMEDIATE COURSE - 12.5

SUBBASE: 8" GRAVEL BORROW, TYPE b.

PROPOSED CEMENT CONCRETE DRIVEWAY & SIDEWALK THROUGH DRIVEWAY (RESIDENTIAL)

SURFACE: 6" CEMENT CONCRETE
AIR ENTRAINED 4000psi, 3/4", 610

WIRE MESH: PLACE 6"X 6" #10/10 WELDED WIRE MESH AT MIDPT. OF CONC. THICKNESS

SUBBASE: 8" GRAVEL BORROW, TYPE b.

PROPOSED CEMENT CONCRETE DRIVEWAY & SIDEWALK THROUGH DRIVEWAY (COMMERCIAL)

SURFACE: 9" CEMENT CONCRETE
AIR ENTRAINED 4000psi, 3/4", 610

REINFORCEMENT: PLACE #3 BARS, 12" O.C., AT 3" ABOVE GRAVEL FOUNDATION

SUBBASE: 8" GRAVEL BORROW, TYPE b.

PROPOSED STAMPED & COLORED CEMENT CONCRETE MEDIANS (RAISED & FLUSH)

SURFACE: 10" CEMENT CONCRETE
AIR ENTRAINED 5000psi, 3/4", 610

SUBBASE: 8" MIN. GRAVEL BORROW, TYPE b.
(GRAVEL LINE TO MEET BOTTOM OF ADJACENT ROADWAY GRAVEL)

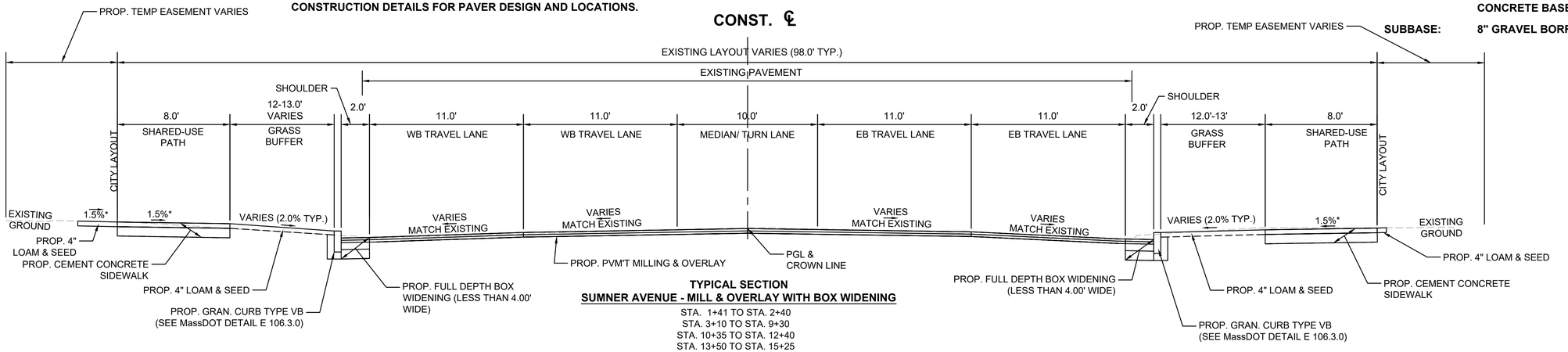
NOTES: ASPHALT EMULSION FOR TACK COAT AND HMA JOINT ADHESIVE SHALL BE APPLIED PER SECTION 450 QA OF THE SPECIAL PROVISIONS.

HMA FOR PATCHING SHALL BE USED FOR ALL PERMANENT, PARTIAL, AND FULL DEPTH PAVEMENT REPAIRS OF UNSOUND PAVEMENT PER SECTION 450. FOR REPAIRS OF UNSOUND EXISTING CONCRETE BASE SEE CONCRETE BASE REPAIR DETAIL ON SHEET 141.

HMA FOR MISCELLANEOUS WORK SHALL BE USED FOR ALL TEMPORARY CONSTRUCTION,RAMPS, CURB CUT RAMPS, ETC.

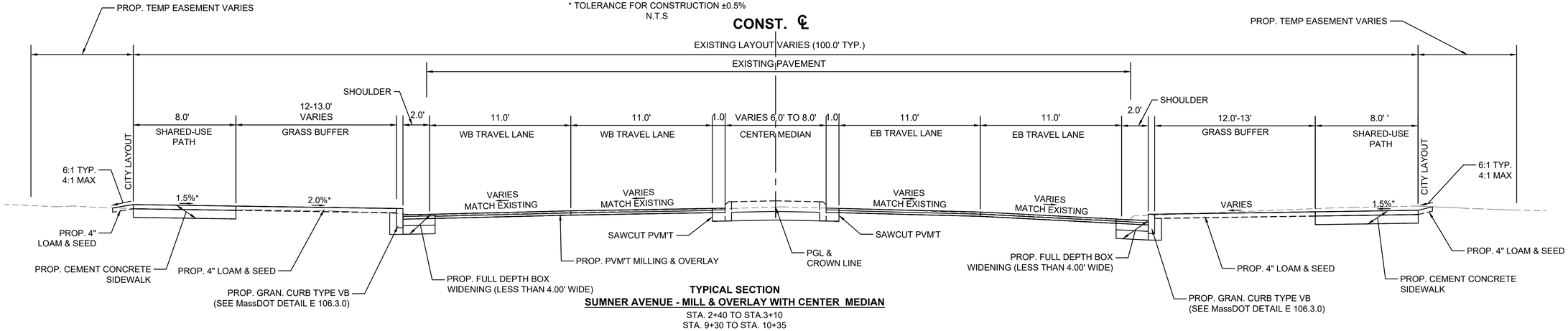
24" SPECIAL BORROW SHALL BE PLACED AS NEEDED IN THREE LIFTS UNDER AREAS OF FULL DEPTH WIDENING WHERE EXISTING SUBGRADE IS DETERMINED TO BE UNSUITABLE AS DIRECTED BY THE ENGINEER.

NOTES: SEE CONSTRUCTION PLANS, STREETSCAPE PLANS AND CONSTRUCTION DETAILS FOR PAVER DESIGN AND LOCATIONS.



TYPICAL SECTION
SUMNER AVENUE - MILL & OVERLAY WITH BOX WIDENING

STA. 1+41 TO STA. 2+40
STA. 3+10 TO STA. 9+30
STA. 10+35 TO STA. 12+40
STA. 13+50 TO STA. 15+25
STA. 16+45 TO STA. 17+60
* TOLERANCE FOR CONSTRUCTION ±0.5%
N.T.S



TYPICAL SECTION
SUMNER AVENUE - MILL & OVERLAY WITH CENTER MEDIAN

STA. 2+40 TO STA.3+10
STA. 9+30 TO STA. 10+35
STA. 12+40 TO STA. 13+50
STA. 15+25 TO STA. 16+45
* TOLERANCE FOR CONSTRUCTION ±0.5%
N.T.S

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXX(XXX)X	7	358
	PROJECT FILE NO. 608717		

TYPICAL SECTIONS - SUMNER AVENUE

SUMNER PAVEMENT NOTES

PROPOSED PAVEMENT MILLING AND OVERLAY

MILLING: 3" PAVEMENT FINE MILLING

SURFACE: 1-3/4" SUPERPAVE SURFACE COURSE - POLYMER - 12.5 OVER
2-1/4" SUPERPAVE INTERMEDIATE COURSE - 19.0

PROPOSED FULL DEPTH CONSTRUCTION

SURFACE: 1-3/4" SUPERPAVE SURFACE COURSE - POLYMER - 12.5 OVER
INTERMEDIATE: 2 1/4 " SUPERPAVE INTERMEDIATE COURSE - 19.0 OVER
BASE: 3 1/2 " SUPERPAVE BASE COURSE - 37.5 OVER
SUBBASE: 4 " DENSE GRADED CRUSHED STONE OVER
12" GRAVEL BORROW, TYPE b.

PROPOSED FULL DEPTH CONSTRUCTION (LESS THAN 4.0' WIDE)

SURFACE: 1-3/4" SUPERPAVE SURFACE COURSE - POLYMER - 12.5 OVER
INTERMEDIATE: 2-1/4" SUPERPAVE INTERMEDIATE COURSE - 19.0 OVER
BASE: 6" HIGH EARLY STRENGTH CEMENT
CONCRETE BASE COURSE - 4000psi, 610, 3/4" OVER
SUBBASE: 8" GRAVEL BORROW, TYPE b.

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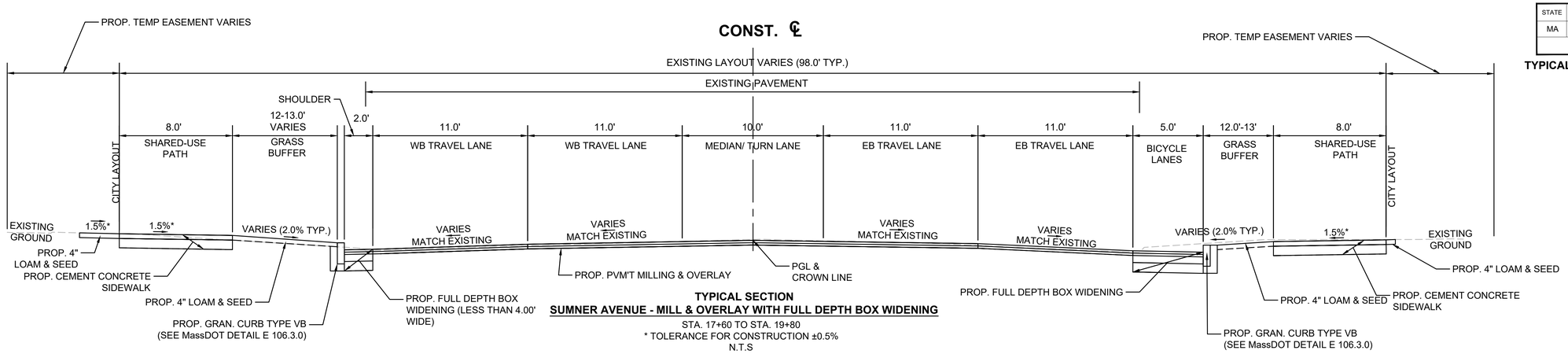
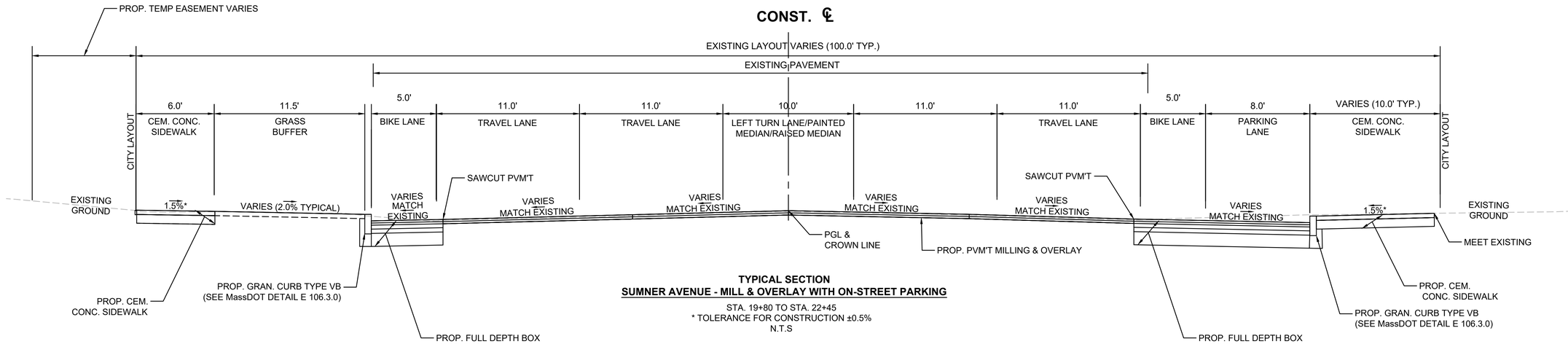
SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	8	358
PROJECT FILE NO.	608717		

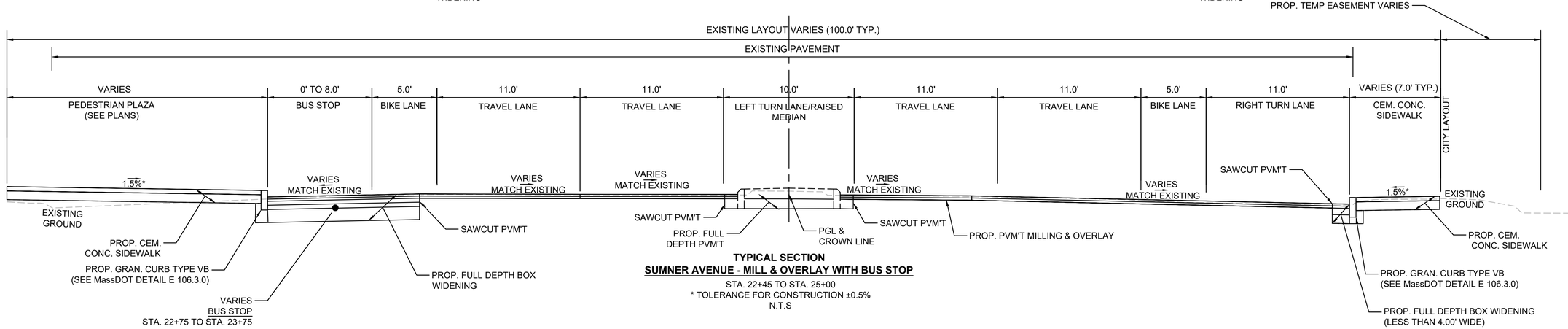
TYPICAL SECTIONS - SUMNER AVENUE



TYPICAL SECTION
SUMNER AVENUE - MILL & OVERLAY WITH FULL DEPTH BOX WIDENING
STA. 17+60 TO STA. 19+80
* TOLERANCE FOR CONSTRUCTION ±0.5%
N.T.S



TYPICAL SECTION
SUMNER AVENUE - MILL & OVERLAY WITH ON-STREET PARKING
STA. 19+80 TO STA. 22+45
* TOLERANCE FOR CONSTRUCTION ±0.5%
N.T.S



TYPICAL SECTION
SUMNER AVENUE - MILL & OVERLAY WITH BUS STOP
STA. 22+45 TO STA. 25+00
* TOLERANCE FOR CONSTRUCTION ±0.5%
N.T.S

SEE SUMNER AVE PAVEMENT NOTES (SHEET 7)

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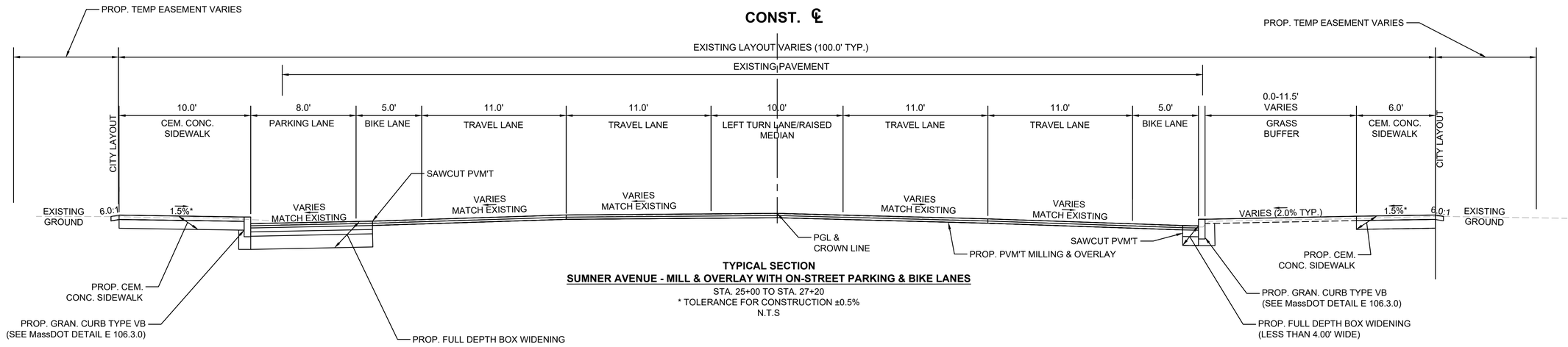
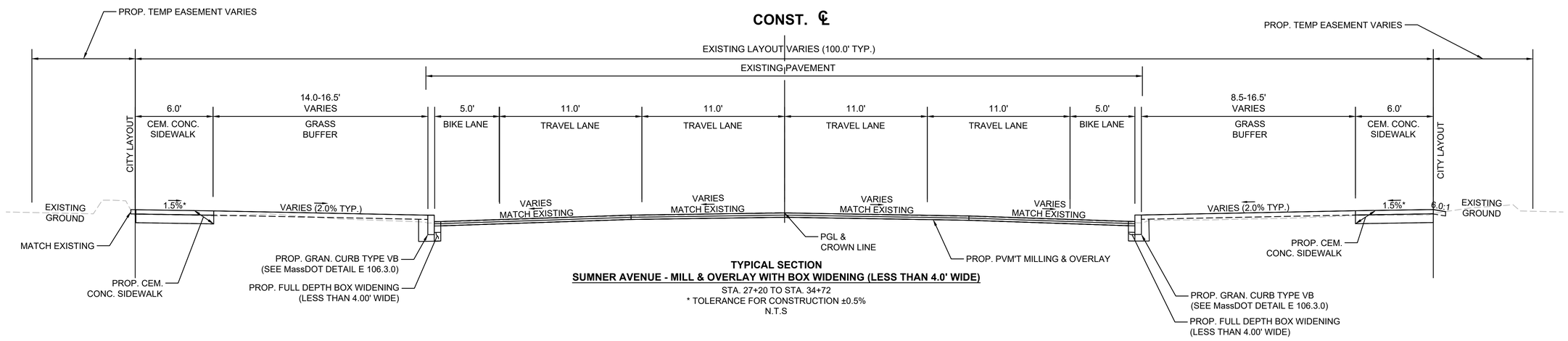
SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	9	358
PROJECT FILE NO.	608717		

TYPICAL SECTIONS - SUMNER AVENUE



TYPICAL SECTION
SUMNER AVENUE - MILL & OVERLAY WITH ON-STREET PARKING & BIKE LANES
STA. 25+00 TO STA. 27+20
* TOLERANCE FOR CONSTRUCTION ±0.5%
N.T.S



TYPICAL SECTION
SUMNER AVENUE - MILL & OVERLAY WITH BOX WIDENING (LESS THAN 4.0' WIDE)
STA. 27+20 TO STA. 34+72
* TOLERANCE FOR CONSTRUCTION ±0.5%
N.T.S

SEE SUMNER AVE PAVEMENT NOTES (SHEET 7)

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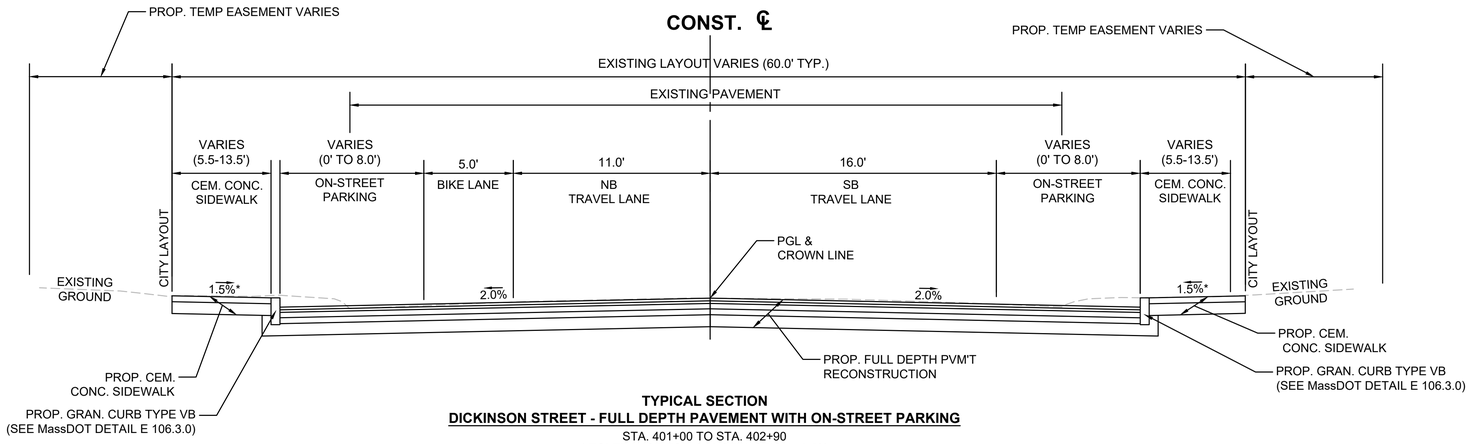
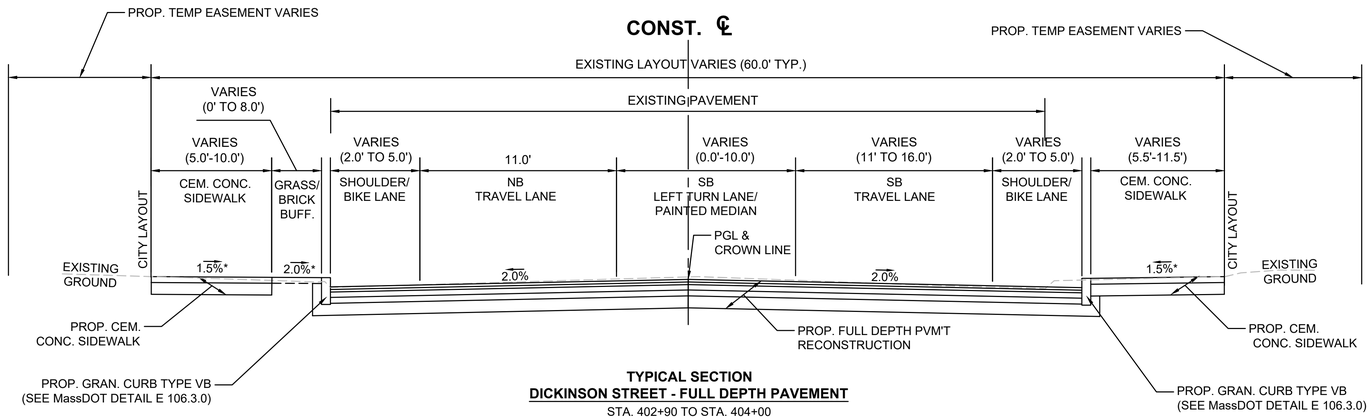
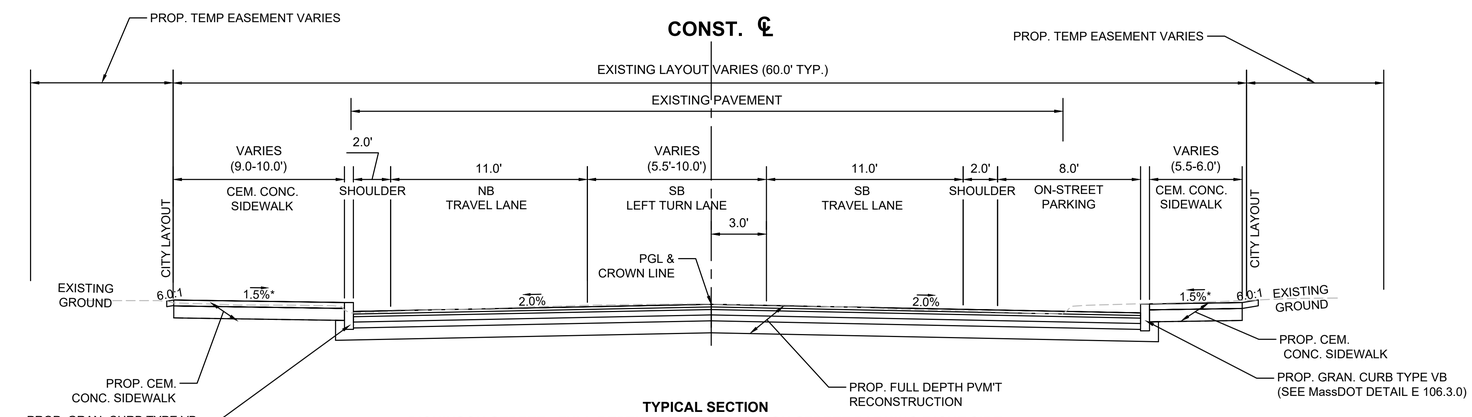


TYPICAL SECTION
DICKINSON STREET - FULL DEPTH PAVEMENT WITH ON-STREET PARKING
STA. 401+00 TO STA. 402+90
* TOLERANCE FOR CONSTRUCTION ±0.5%
N.T.S



TYPICAL SECTION
DICKINSON STREET - FULL DEPTH PAVEMENT
STA. 402+90 TO STA. 404+00
STA. 405+60 TO STA. 406+75
STA. 407+50 TO STA. 410+25
* TOLERANCE FOR CONSTRUCTION ±0.5%
N.T.S



TYPICAL SECTION
DICKINSON STREET - FULL DEPTH PAVEMENT WITH ON STREET PARKING RIGHT SIDE
STA. 404+00 TO STA. 405+60
* TOLERANCE FOR CONSTRUCTION ±0.5%
N.T.S

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	10	358
PROJECT FILE NO.	608717		

TYPICAL SECTIONS - DICKINSON STREET

DICKINSON PAVEMENT NOTES

PROPOSED FULL DEPTH CONSTRUCTION

SURFACE: 1-3/4" SUPERPAVE SURFACE COURSE - POLYMER - 12.5 OVER
INTERMEDIATE: 1-3/4" SUPERPAVE INTERMEDIATE COURSE - 19.0 OVER
BASE: 3-1/2" SUPERPAVE BASE COURSE - 37.5 OVER
SUBBASE: 4" DENSE GRADED CRUSHED STONE, OVER
8" GRAVEL BORROW, TYPE b.

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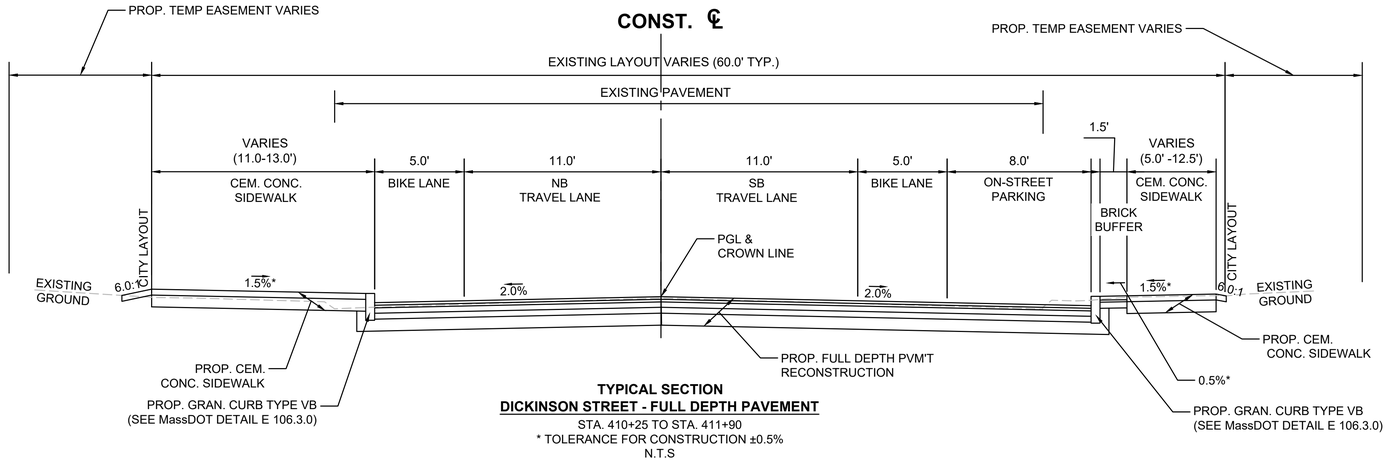
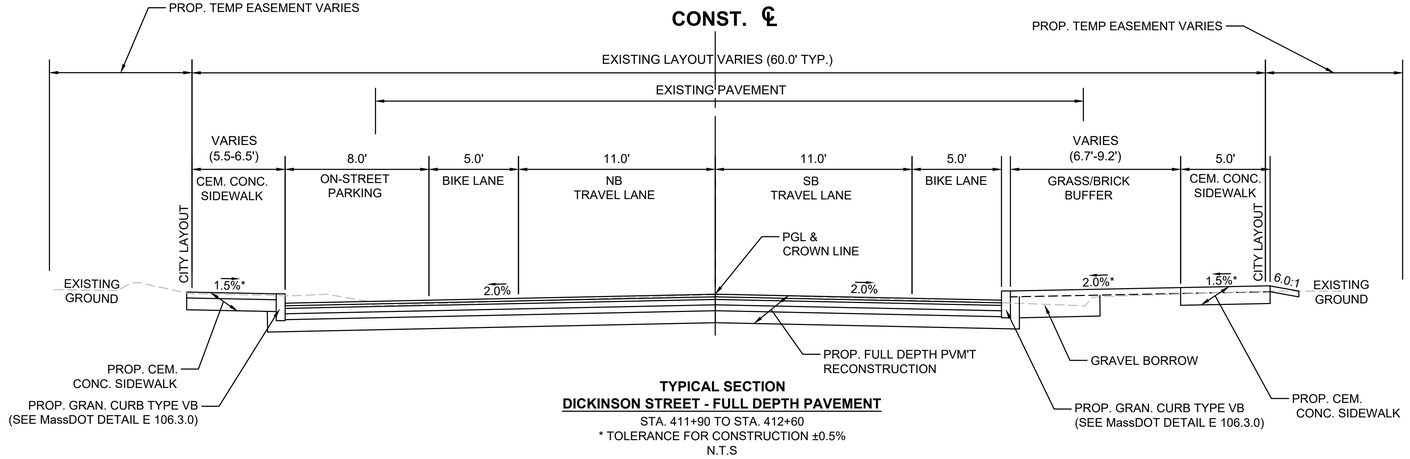
SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	11	358
	PROJECT FILE NO. 608717		

TYPICAL SECTIONS - DICKINSON STREET



TYPICAL SECTION
DICKINSON STREET - FULL DEPTH PAVEMENT
STA. 410+25 TO STA. 411+90
* TOLERANCE FOR CONSTRUCTION ±0.5%
N.T.S



TYPICAL SECTION
DICKINSON STREET - FULL DEPTH PAVEMENT
STA. 411+90 TO STA. 412+60
* TOLERANCE FOR CONSTRUCTION ±0.5%
N.T.S

SEE DICKINSON STREET PAVEMENT NOTES (SHEET 10)

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SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	12	358
PROJECT FILE NO.	608717		

TYPICAL SECTIONS - BELMONT AVENUE

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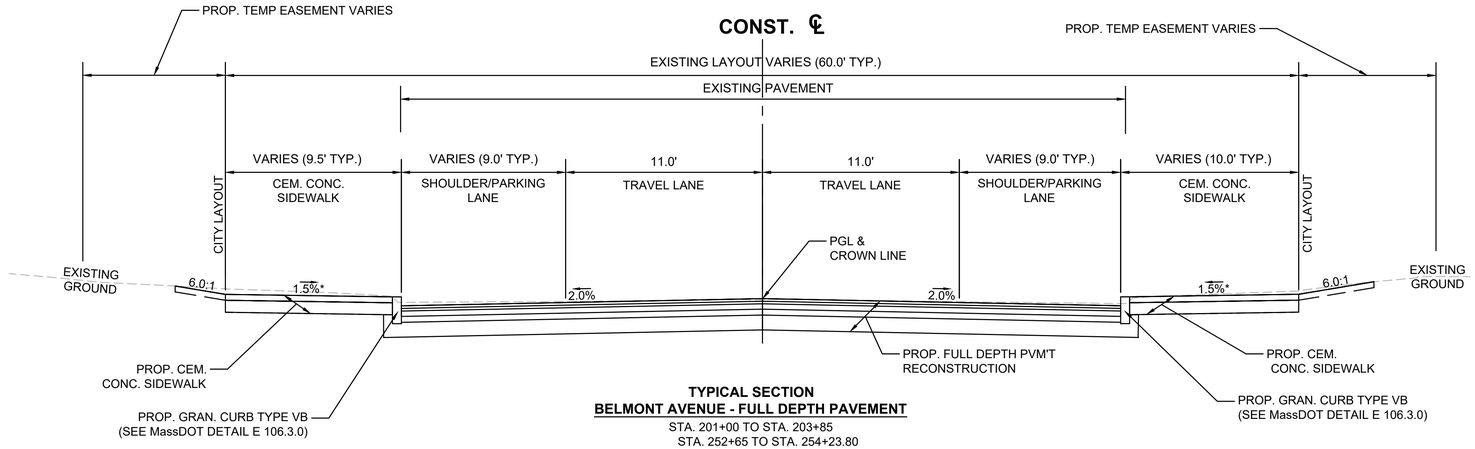
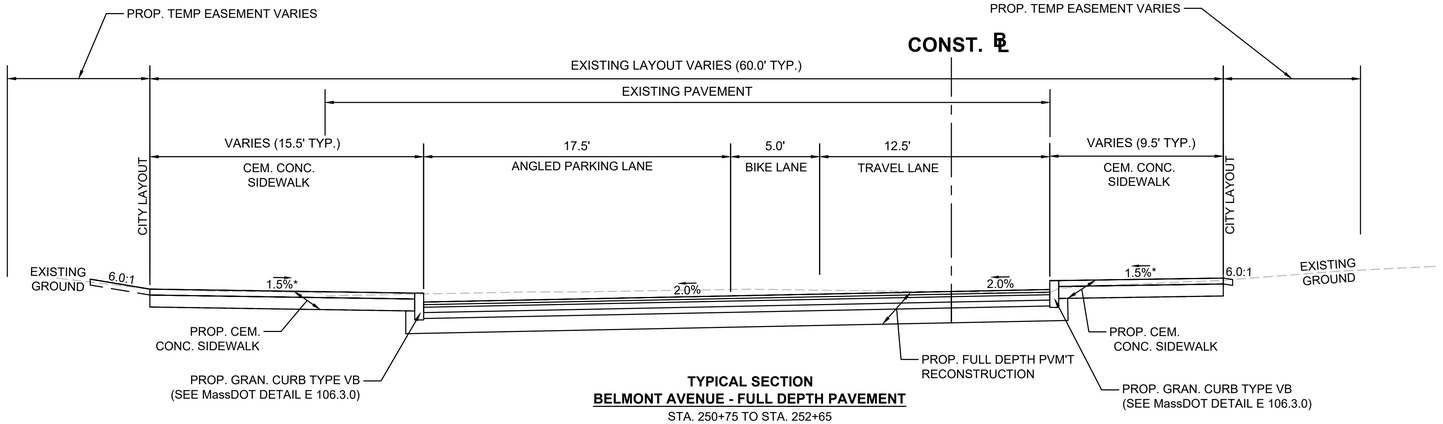


TYPICAL SECTION
BELMONT AVENUE - FULL DEPTH PAVEMENT
STA. 201+00 TO STA. 203+85
STA. 252+65 TO STA. 254+23.80
* TOLERANCE FOR CONSTRUCTION ±0.5%
N.T.S

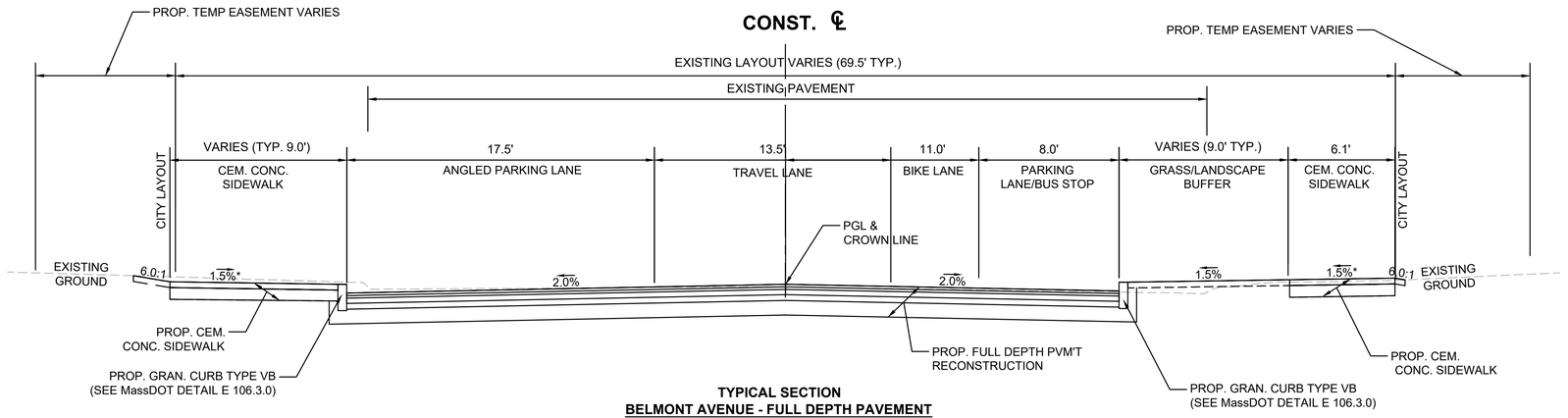
BELMONT PAVEMENT NOTES

PROPOSED FULL DEPTH CONSTRUCTION

SURFACE: 1-3/4" SUPERPAVE SURFACE COURSE - POLYMER - 12.5 OVER
INTERMEDIATE: 1-3/4" SUPERPAVE INTERMEDIATE COURSE - 19.0 OVER
3-1/2" SUPERPAVE BASE COURSE - 37.5 OVER
SUBBASE: 4" DENSE GRADED CRUSHED STONE, OVER
10" GRAVEL BORROW, TYPE b.



TYPICAL SECTION
BELMONT AVENUE - FULL DEPTH PAVEMENT
STA. 250+75 TO STA. 252+65
* TOLERANCE FOR CONSTRUCTION ±0.5%
N.T.S

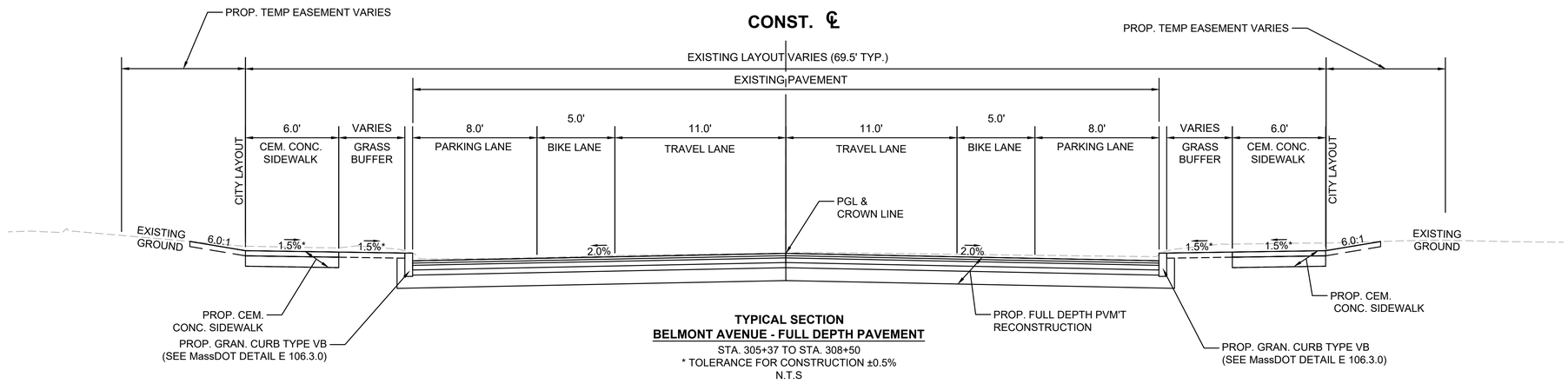


TYPICAL SECTION
BELMONT AVENUE - FULL DEPTH PAVEMENT
STA. 301+65 TO STA. 303+50
* TOLERANCE FOR CONSTRUCTION ±0.5%
N.T.S

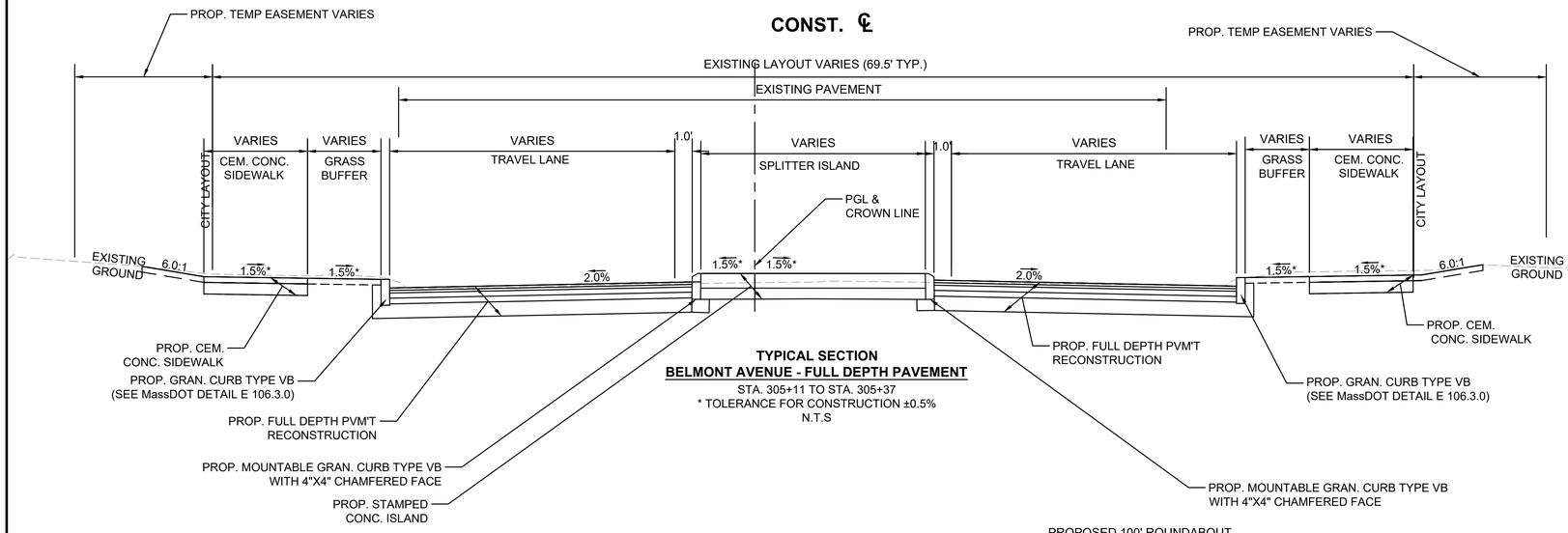
SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	13	358
	PROJECT FILE NO. 608717		

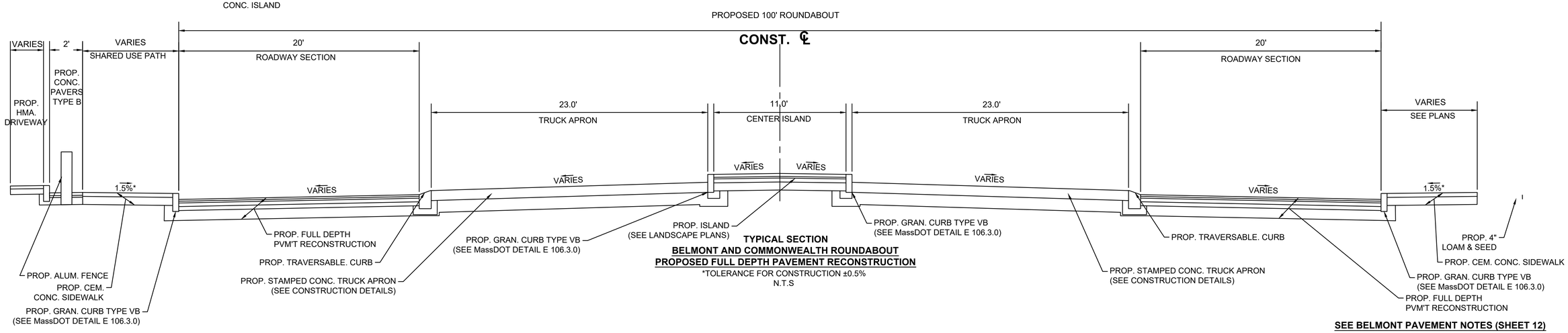
TYPICAL SECTIONS - BELMONT AVENUE



TYPICAL SECTION
BELMONT AVENUE - FULL DEPTH PAVEMENT
STA. 305+37 TO STA. 308+50
* TOLERANCE FOR CONSTRUCTION ±0.5%
N.T.S



TYPICAL SECTION
BELMONT AVENUE - FULL DEPTH PAVEMENT
STA. 305+11 TO STA. 305+37
* TOLERANCE FOR CONSTRUCTION ±0.5%
N.T.S



TYPICAL SECTION
BELMONT AND COMMONWEALTH ROUNDABOUT
PROPOSED FULL DEPTH PAVEMENT RECONSTRUCTION
*TOLERANCE FOR CONSTRUCTION ±0.5%
N.T.S

SEE BELMONT PAVEMENT NOTES (SHEET 12)

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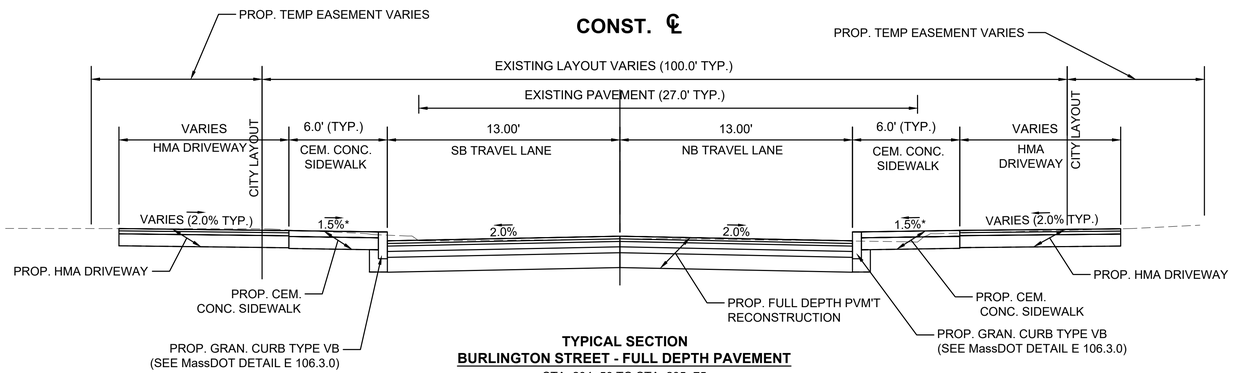
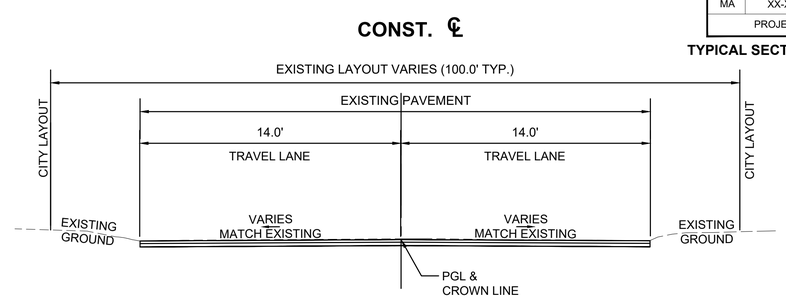
SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	14	358
	PROJECT FILE NO. 608717		

TYPICAL SECTIONS - BELMONT AVENUE



TYPICAL SECTION
BURLINGTON STREET - FULL DEPTH PAVEMENT
STA. 204+50 TO STA. 205+75
* TOLERANCE FOR CONSTRUCTION ±0.5%
N.T.S



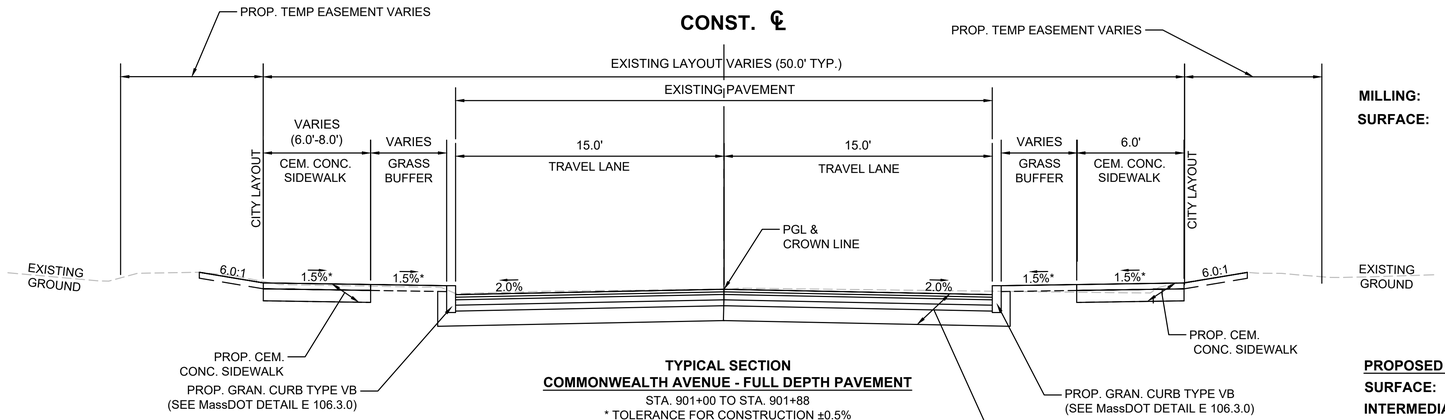
TYPICAL SECTION
BURLINGTON STREET - PAVEMENT MILLING & OVERLAY
STA. 205+75 TO STA. 207+85
* TOLERANCE FOR CONSTRUCTION ±0.5%
N.T.S

BURLINGTON STREET PAVEMENT NOTES

BURLINGTON - PROPOSED PAVEMENT STANDARD MILLING AND OVERLAY

MILLING: 3" PAVEMENT STANDARD MILLING

SURFACE: 1-3/4" SUPERPAVE SURFACE COURSE - POLYMER - 12.5 OVER
2-1/4" SUPERPAVE INTERMEDIATE COURSE - 19.0



TYPICAL SECTION
COMMONWEALTH AVENUE - FULL DEPTH PAVEMENT
STA. 901+00 TO STA. 901+88
* TOLERANCE FOR CONSTRUCTION ±0.5%
N.T.S

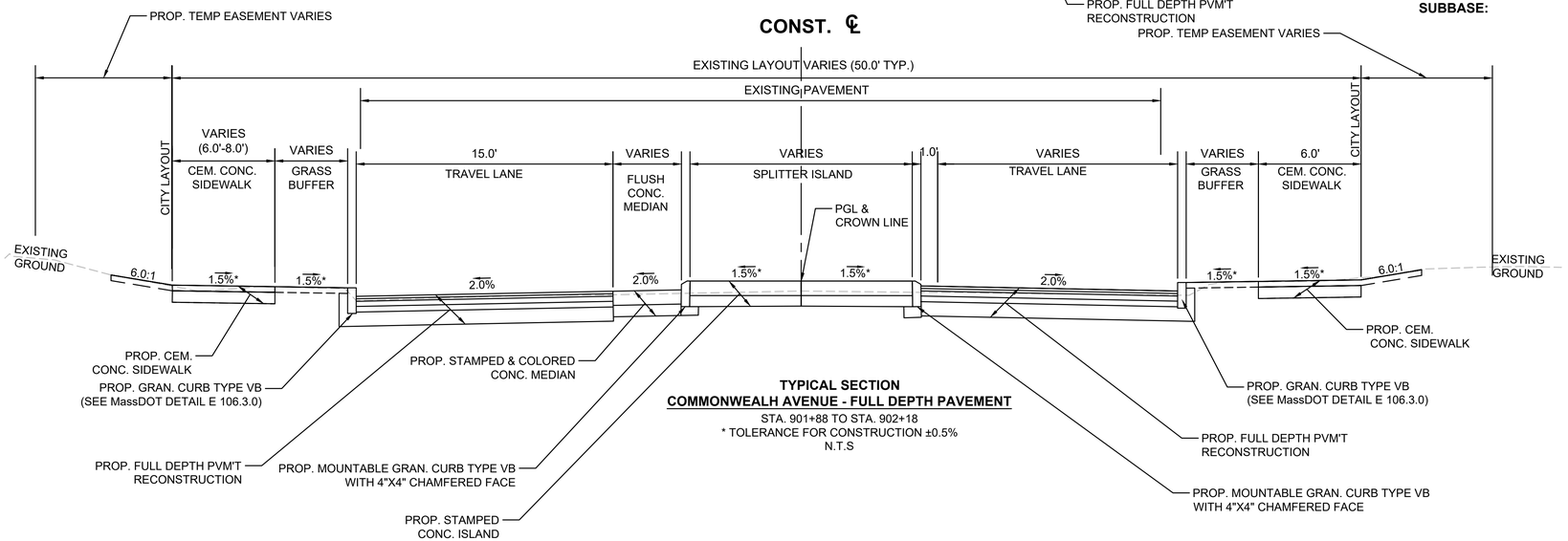
COMMONWEALTH PAVEMENT NOTES

PROPOSED FULL DEPTH CONSTRUCTION

SURFACE: 1-3/4" SUPERPAVE SURFACE COURSE - POLYMER - 12.5 OVER

INTERMEDIATE: 1-3/4" SUPERPAVE INTERMEDIATE COURSE - 19.0 OVER

SUBBASE: 3-1/2" SUPERPAVE BASE COURSE - 37.5 OVER
4" DENSE GRADED CRUSHED STONE, OVER
10" GRAVEL BORROW, TYPE b.



TYPICAL SECTION
COMMONWEALH AVENUE - FULL DEPTH PAVEMENT
STA. 901+88 TO STA. 902+18
* TOLERANCE FOR CONSTRUCTION ±0.5%
N.T.S

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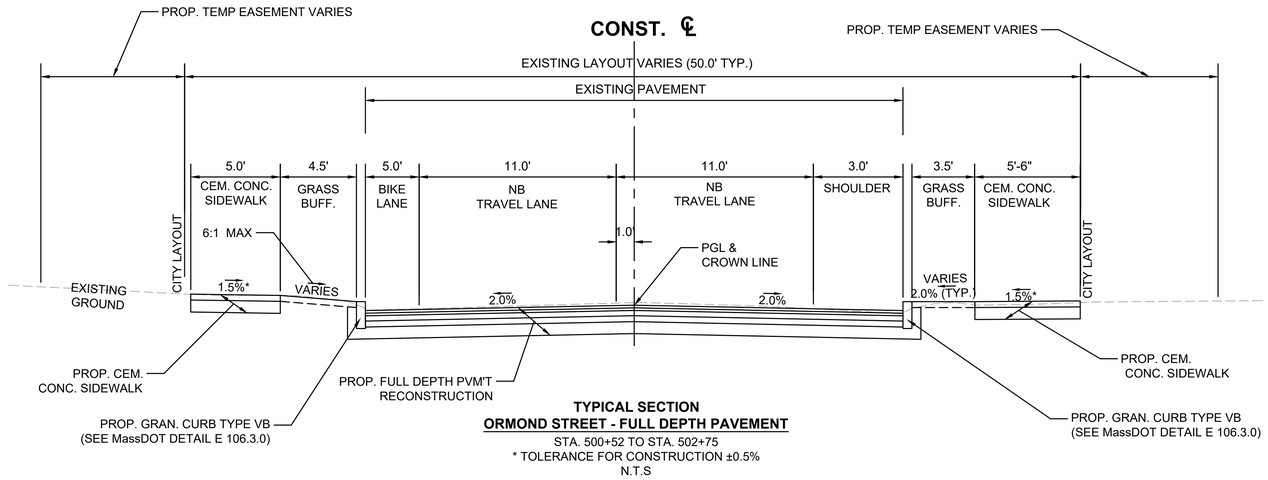
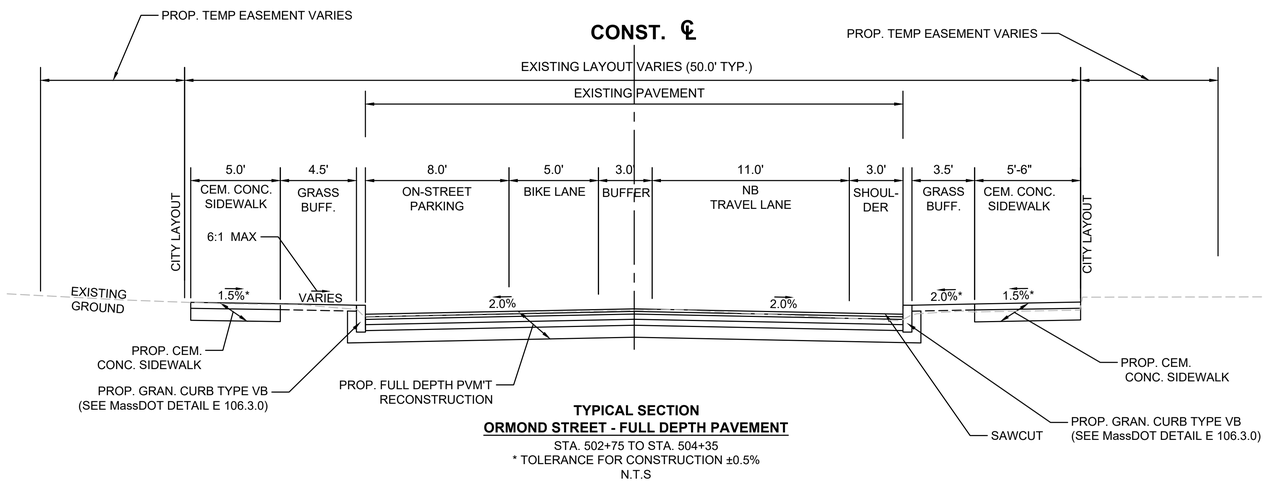
SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	15	358
PROJECT FILE NO.	608717		

TYPICAL SECTIONS - ORMOND STREET



TYPICAL SECTION
ORMOND STREET - FULL DEPTH PAVEMENT
STA. 500+52 TO STA. 502+75
* TOLERANCE FOR CONSTRUCTION ±0.5%
N.T.S



TYPICAL SECTION
ORMOND STREET - FULL DEPTH PAVEMENT
STA. 502+75 TO STA. 504+35
* TOLERANCE FOR CONSTRUCTION ±0.5%
N.T.S

ORMOND PAVEMENT NOTES

PROPOSED FULL DEPTH CONSTRUCTION

SURFACE:	**1-3/4" SUPERPAVE SURFACE COURSE - POLYMER - 12.5 OVER**
INTERMEDIATE:	**1-3/4" SUPERPAVE INTERMEDIATE COURSE - 19.0 OVER**
BASE:	**3-1/2" SUPERPAVE BASE COURSE - 37.5 OVER**
SUBBASE:	**4" DENSE GRADED CRUSHED STONE, OVER 8" GRAVEL BORROW, TYPE b.**

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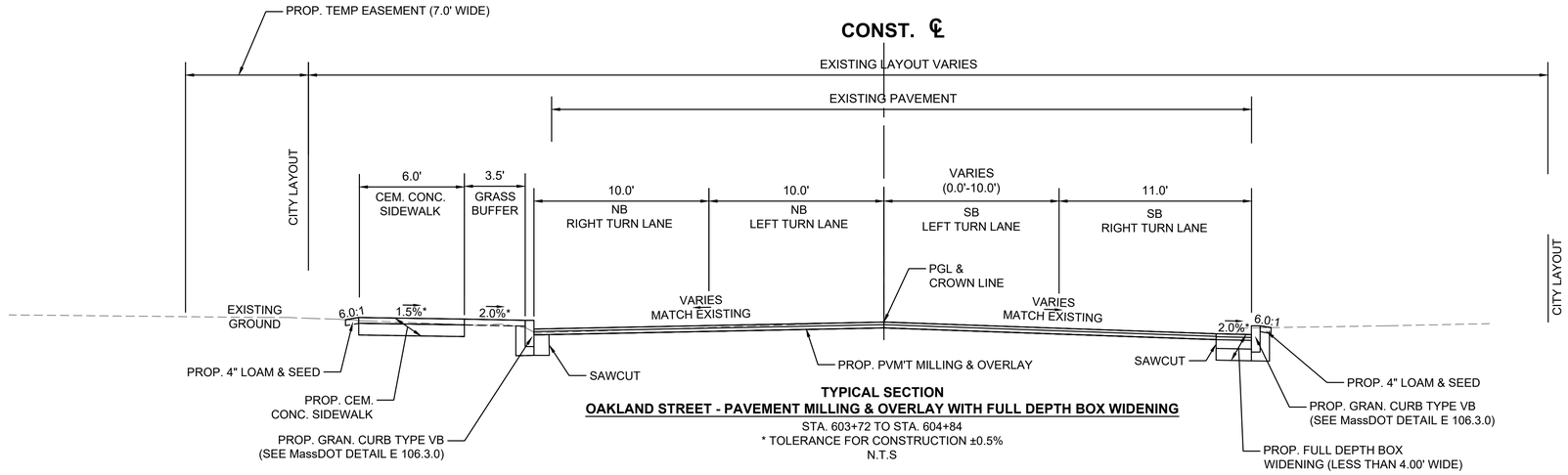
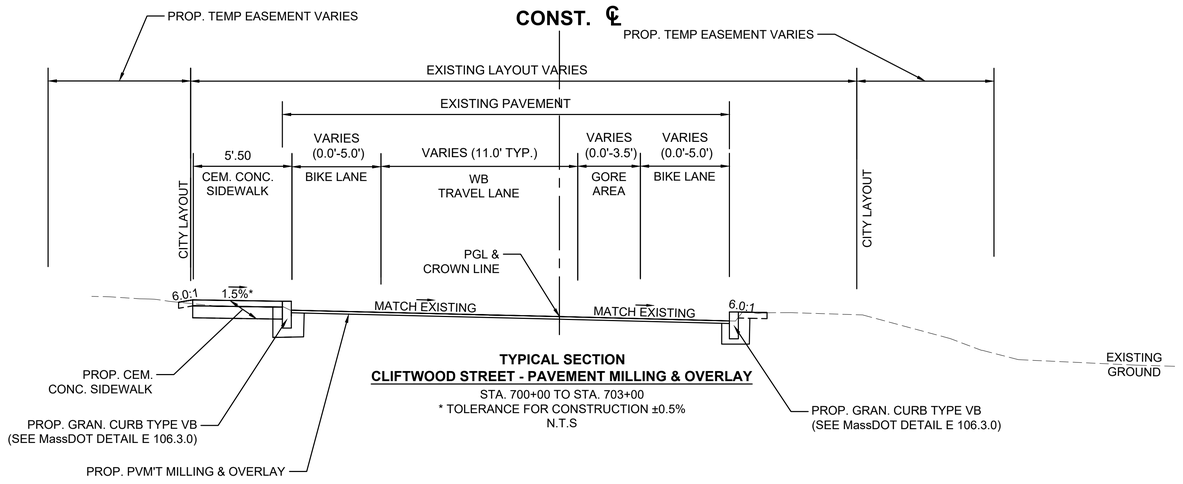
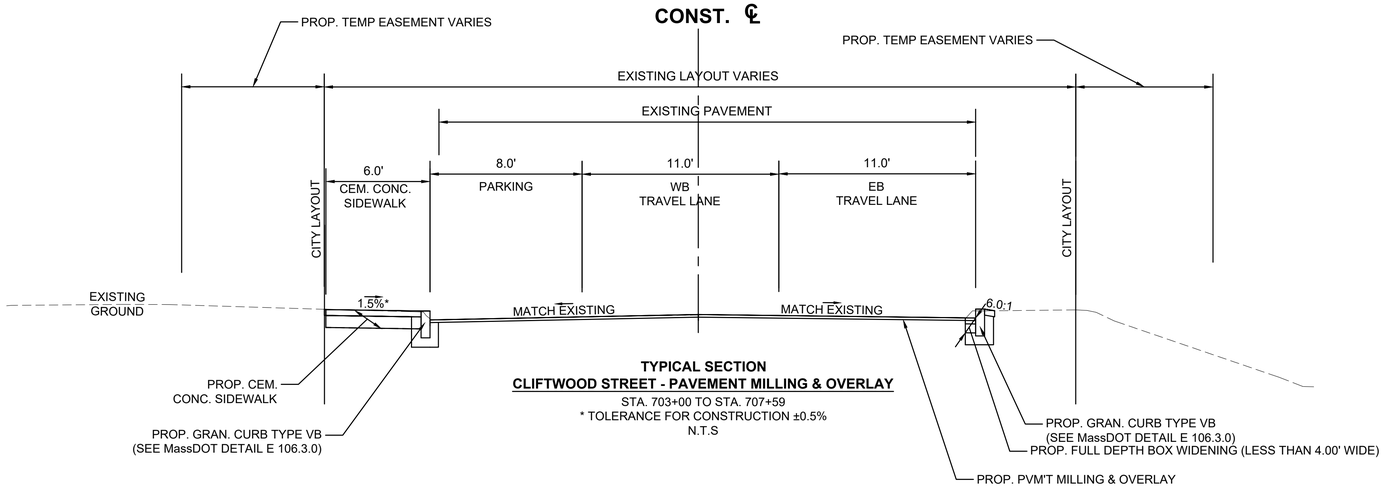


TYPICAL SECTION
OAKLAND STREET - PAVEMENT MILLING & OVERLAY WITH FULL DEPTH BOX WIDENING
STA. 603+72 TO STA. 604+84
* TOLERANCE FOR CONSTRUCTION ±0.5%
N.T.S



TYPICAL SECTION
CLIFTWOOD STREET - PAVEMENT MILLING & OVERLAY
STA. 700+00 TO STA. 703+00
* TOLERANCE FOR CONSTRUCTION ±0.5%
N.T.S



TYPICAL SECTION
CLIFTWOOD STREET - PAVEMENT MILLING & OVERLAY
STA. 703+00 TO STA. 707+59
* TOLERANCE FOR CONSTRUCTION ±0.5%
N.T.S

SPRINGFIELD
THE 'X' INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXX(XXX)X	16	358
PROJECT FILE NO.	608717		

TYPICAL SECTIONS - OAKLAND & CLIFTWOOD STREETS

OAKLAND & CLIFTWOOD STREET PAVEMENT NOTES

OAKLAND - PROPOSED PAVEMENT STANDARD MILLING AND OVERLAY

MILLING: 3" PAVEMENT STANDARD MILLING
SURFACE: 1-3/4" SUPERPAVE SURFACE COURSE - POLYMER - 12.5 OVER
2-1/4" SUPERPAVE INTERMEDIATE COURSE - 19.0

CLIFTWOOD - PROPOSED PAVEMENT STANDARD MILLING AND OVERLAY

MILLING: 1-3/4" PAVEMENT STANDARD MILLING
SURFACE: 1-3/4" SUPERPAVE SURFACE COURSE - POLYMER - 12.5 OVER

PROPOSED FULL DEPTH CONSTRUCTION (LESS THAN 4.0' WIDE)

SURFACE: 1-3/4" SUPERPAVE SURFACE COURSE - POLYMER - 12.5 OVER
INTERMEDIATE: 2-1/4" SUPERPAVE INTERMEDIATE COURSE - 19.0 OVER
BASE: 6" HIGH EARLY STRENGTH CEMENT
CONCRETE BASE COURSE - 4000psi, 610, 3/4" OVER
SUBBASE: 8" GRAVEL BORROW, TYPE b.

20121457A70_TYP01.DWG Plotted on 5-May-2023 2:21 PM

HIGHWAY GUARD DETAILS	TRAFFIC SIGNAL CONDUIT	WATER SUPPLY ALTERATIONS	DRAINAGE DETAILS
NONE	NONE	SEE SHEET 142	SEE SHEET 121

LEGEND:

- FULL DEPTH PAVEMENT RECONSTRUCTION
- STAMPED CONCRETE
- PEDESTRIAN CURB RAMP (PCR)
- PROPOSED PEDESTRIAN CURB RAMP DETAIL # — X#
- PROPOSED DRIVEWAY DETAIL # — DR#–#
- PROPOSED TREE PROTECTION - ARMORING AND PRUNING

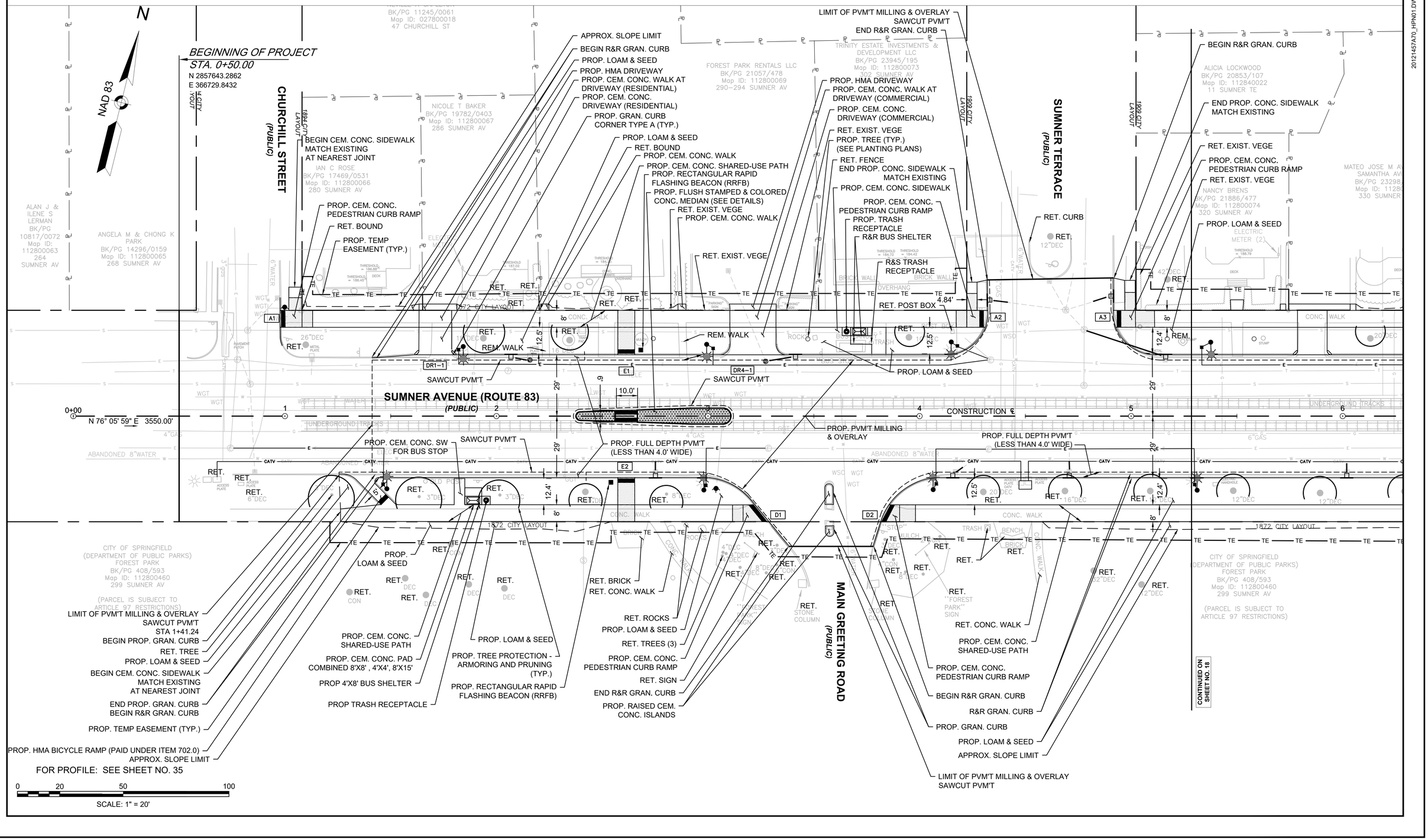
NOTES:

1. ALL EXISTING GRANITE CURB WITHIN PROJECT LIMITS SHALL BE REMOVED & RESET UNLESS OTHERWISE NOTED ON THE PLAN.
2. ALL EXISTING GRANITE CURB CORNERS WITHIN PROJECT LIMITS SHALL BE REMOVED & STACKED UNDER ITEM #592.
3. ALL GRANITE CURB FOR PEDESTRIAN CURB RAMPS, RAMP TRANSITIONS, AND DRIVEWAY TRANSITIONS SHALL BE NEW.
4. ALL CURVED GRANITE CURB THAT DOES NOT MATCH THE EXISTING CURB RADIUS SHALL BE NEW.
5. CONTRACTOR SHALL MAKE STRAIGHT AND SMOOTH SAWCUTS AT ALL LIMITS OF PROPOSED HMA DRIVEWAY INSTALLATIONS.
6. TYPE "A" PAVERS ARE TO BE USED ONLY IN AREAS NOT INTENDED FOR WALKING OR ADA ACCESSIBLE PATH.
7. SEE STREETSCAPE & PLANTING PLANS FOR PROPOSED TREE LOCATIONS.
8. SAWCUTS SHALL BE MADE AT THE BACK OF ALL PROPOSED DRIVEWAYS AND WALKS WHERE IT MATCHES EXISTING CONDITION.
9. AT TREES TO BE RETAINED, CONTRACTOR SHALL AVOID CUTTING EARTH AROUND TREE TRUNK IN A 5' RADIUS WHERE POSSIBLE

SPRINGFIELD
THE 'X' INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	17	358
PROJECT FILE NO.	608717		

CONSTRUCTION PLANS



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HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

SEE SHEET 107

WATER SUPPLY ALTERATIONS

SEE SHEET 143

DRAINAGE DETAILS

SEE SHEET 122

LEGEND:

FULL DEPTH PAVEMENT RECONSTRUCTION

STAMPED CONCRETE

PEDESTRIAN CURB RAMP (PCR)

PROPOSED PEDESTRIAN CURB RAMP DETAIL # X#

PROPOSED DRIVEWAY DETAIL # DR#–#

PROPOSED TREE PROTECTION - ARMORING AND PRUNING

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXX(XXX)X	18	358
	PROJECT FILE NO. 608717		

CONSTRUCTION PLANS

20121457A70_HPN01.DWG Plotted on 5-May-2023 2:23 PM

N

NAD 83

1928 CITY LAYOUT

SUMNER TERRACE (PUBLIC)

OAKLAND STREET (PUBLIC)

SUMNER AVENUE (ROUTE 83) (PUBLIC)

CONTINUED ON SHEET NO. 32

CONTINUED ON SHEET NO. 19

CONTINUED ON SHEET NO. 17

FOR PROFILE: SEE SHEET NO. 35

0 20 50 100

SCALE: 1" = 20'

HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

SEE SHEET 144

DRAINAGE DETAILS

SEE SHEET 123

LEGEND:

FULL DEPTH PAVEMENT RECONSTRUCTION

STAMPED CONCRETE

PEDESTRIAN CURB RAMP (PCR)

PROPOSED PEDESTRIAN CURB RAMP DETAIL # X#

PROPOSED DRIVEWAY DETAIL # DR#-#

PROPOSED TREE PROTECTION - ARMORING AND PRUNING

SPRINGFIELD
THE 'X' INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	19	358
PROJECT FILE NO.	608717		

CONSTRUCTION PLANS

N

NAD 83

SUMNER AVENUE (ROUTE 83) (PUBLIC)

KENWOOD TERRACE (PUBLIC)

BEAUMONT STREET (PUBLIC)

CONTINENTAL STREET (PUBLIC)

CONSTRUCTION ℄ N 76° 05' 59" E 3550.00'

CALVARY'S LOVE CHURCH BK/PG 17100/404 Map ID: 092100161 17-19 OAKLAND ST

ERIK G. SCOTT BK/PG 23890/595 Map ID: 072520003 16 KENWOOD TER

LOTCUS LLC BK/PG 24804/322 Map ID: 072520021 17 KENWOOD TER

GREGORY A. & EVA ROUGELLIS BK/PG 05885/202 Map ID: 011450005 16 BEAUMONT ST

BHANU & JANUKA N TIWARI BK/PG 23802/227 Map ID: 112800083 372 SUMNER AV

MARTA E GONZALEZ BK/PG 10597/0073 Map ID: 112800082 366 SUMNER AV

KERUBE FARHADI BK/PG 22078/523 Map ID: 112800084 376-378 SUMNER AV

ANDREW W VIVENZIO BK/PG 12956/0494 Map ID: 112800085 390 SUMNER AV

DAO VU BK/PG 15728/0310 Map ID: 112800086 398 SUMNER AV

TOWER REALTY PARKER ST LLC BK/PG 23062/120 Map ID: 112800088 408 SUMNER AV

ROSEMARY PEREZ BK/PG 25061/0310 Map ID: 112800087 402 SUMNER AV

TRINITY METHODIST EPISCOPAL CHURCH BK/PG 19030/5 Map ID: 112800434 361 SUMNER AV

GEN-WEALTH PROPERTIES LLC BK/PG 24814/392 Map ID: 112800426 407 SUMNER AV

JOSE L ESTEVEZ BK/PG 16331/0161 Map ID: 112800425 415 SUMNER AV

PHUONG L. DO BK/PG 15068/0443 Map ID: 031500017 11 CONTINENTAL ST

PROP. HMA DRIVEWAY
PROP. CEM. CONC. DRIVEWAY (RESIDENTIAL)
PROP. CEM. CONC. WALK AT DRIVEWAY (RESIDENTIAL)
END PROP. CONC. SIDEWALK MATCH EXISTING
PROP. CEM. CONC. PEDESTRIAN CURB RAMP
PROP. LOAM & SEED
PROP. CONC. SW
PROP. CONC. SW PANEL
PROP. LOAM & SEED (TYP.)
PROP. TEMP. EASEMENT (TYP.)
PROP. TREE PROTECTION - ARMORING AND PRUNING (TYP.)
RET. VEGE
RET. EXIST. VEGE.
RET. CURB
REM. CONC. WALK
REM. STUMP
PROP. FULL DEPTH PVM'T (LESS THAN 4.0' WIDE)
SAWCUT UNDERGROUND TRACKS (TYP.)
SAWCUT PVM'T
PROP. PVM'T MILLING & OVERLAY
PROP. FLUSH STAMPED & COLORED CONCRETE MEDIAN (SEE DETAILS)
PROP. FULL DEPTH PVM'T
PROP. TRASH RECEPTACLE
END PROP. GRAN. CURB
BEGIN R&R GRAN. CURB
PROP. TEMP. EASEMENT (TYP.)
PROP. 4X8 BUS SHELTER
PROP. CEM CONC PAD 120SQ.FT
PROP. CEM. CONC. SHARED-USE PATH
APPROX. SLOPE LIMIT
RET. GRASS BUFFER
RET. CONC. SIDEWALK
R&R GRAN. CURB
PROP. STAMPED AND COLORED CONCRETE MEDIAN
PROP. PLANTING AREA (SEE PLANTING PLANS)
PROP. VERTICAL GRAN. CURB
REM. EXIST. HEDGES
PROP. FULL DEPTH PVM'T
PROP. FLUSH STAMPED & COLORED CONCRETE MEDIAN (SEE DETAILS)
REM. EXIST. VEGETATION
END R&R GRAN. CURB
LIMIT OF PVM'T MILLING & OVERLAY SAWCUT PVM'T
REM. CONC. SIDEWALK
PROP. LOAM & SEED
END R&R GRAN. CURB
LIMIT OF PVM'T MILLING & OVERLAY SAWCUT PVM'T
BEGIN R&R GRAN. CURB
END PROP. CONC. SIDEWALK MATCH EXISTING
APPROX. SLOPE LIMIT
RET. SIDEWALK
RET. VEG.
PROP. HMA DRIVEWAY
PROP. CEM. CONC. WALK AT DRIVEWAY (RESIDENTIAL)
PROP. CEM. CONC. DRIVEWAY (RESIDENTIAL)
PROP. CONC. SIDEWALK PANEL MATCH EXIST.
PROP. CEM. CONC. SHARED-USE PATH
RET. VEG.
RET. VEGE
REM. METAL POST
REM. CONC. WALK
PROP. FULL DEPTH PVM'T (LESS THAN 4.0' WIDE)
PROP. GRAN. CURB CORNER TYPE A (TYP.)
PROP. TREE (TYP.) (SEE PLANTING PLANS)
PROP. TEMP. EASEMENT
PROP. CONC. SIDEWALK
PROP. HMA DRIVEWAY
PROP. CEM. CONC. WALK AT DRIVEWAY (RESIDENTIAL)
PROP. CEM. CONC. DRIVEWAY (RESIDENTIAL)
RET. STONE PLANTERS
PROP. LOAM & SEED
PROP. CONC. SIDEWALK
PROP. LOAM & SEED
REM. CONC. SIDEWALK
PROP. LOAM & SEED
R&R POSTAL BOX
PROP. CONC. SIDEWALK
PROP. CEM. CONC. PEDESTRIAN CURB RAMP
END PROP. CONC. SIDEWALK MATCH EXISTING
END R&R GRAN. CURB
LIMIT OF PVM'T MILLING & OVERLAY SAWCUT PVM'T
PROP. CEM. CONC. PEDESTRIAN CURB RAMP
BEGIN R&R GRAN. CURB
END PROP. CONC. SIDEWALK MATCH EXISTING

CONTINUED ON SHEET NO. 18

CONTINUED ON SHEET NO. 20

FOR PROFILE: SEE SHEET NO. 36

0 20 50 100

SCALE: 1" = 20'

File Path: j:\DWG\P2012\1457\A70\Civil\Plan\20121457A70_HPN01.dwg Layout: HPN 03 Plotted: Fri, May 05, 2023 - 2:24 PM User: espringer
MS VIEW: - LAYER STATE: -
CTB File: MAOOT-D.STB
Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3
20121457A70_HPN01.DWG Plotted on 5-May-2023 2:24 PM

HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

SEE SHEET 145

DRAINAGE DETAILS

SEE SHEET 124

LEGEND:

FULL DEPTH PAVEMENT RECONSTRUCTION

STAMPED CONCRETE

PEDESTRIAN CURB RAMP (PCR)

PROPOSED PEDESTRIAN CURB RAMP DETAIL # X#

PROPOSED DRIVEWAY DETAIL # DR#-#

PROPOSED TREE PROTECTION - ARMORING AND PRUNING

NOTES:

1. ALL EXISTING GRANITE CURB WITHIN PROJECT LIMITS SHALL BE REMOVED & STACKED UNLESS OTHERWISE NOTED ON THE PLAN
2. ALL EXISTING GRANITE CURB CORNERS WITHIN PROJECT LIMITS SHALL BE REMOVED & STACKED UNDER ITEM #592.
3. TYPE "A" PAVERS ARE TO BE USED ONLY IN AREAS NOT INTENDED FOR WALKING OR ADA ACCESSIBLE PATH.
4. SEE STREETSCAPE & PLANTING PLANS FOR PROPOSED TREE LOCATIONS.

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXX(XXX)X	20	358
PROJECT FILE NO.	608717		

CONSTRUCTION PLANS

20121457A70_HPN01.DWG Plotted on 5-May-2023 2:24 PM

N

NAD 83

BEAUMONT STREET (PUBLIC)

SUMNER AVENUE (ROUTE 83) (PUBLIC)

CONTINENTAL STREET (PUBLIC)

PARKWOOD STREET (PUBLIC)

CLIFTWOOD STREET (PUBLIC)

LIMIT OF PVM'T MILLING & OVERLAY
SAWCUT PVM'T

END R&R GRAN. CURB

END PROP. CONC. SIDEWALK MATCH EXISTING

PROP. CEM. CONC. PEDESTRIAN CURB RAMP

RET. EXIST. SHRUBS & METAL GARDEN EDGING

BEGIN R&R GRAN. CURB
END PROP. CONC. SIDEWALK MATCH EXISTING
PROP. CEM. CONC. PEDESTRIAN CURB RAMP

PROP. TREE (TYP.) (SEE PLANTING PLANS)

PROP. CEM. CONC. 8'X8',4'X4' AND 5'X8'

PROP. BUS SHELTER 4'X8'

PROP. TRASH RECEPTACLE

PROP. CONC. SW

PROP. CEM. CONC. SHARED-USE PATH

RET. TREES

PROP. CONC. SW
PROP. TEMP. EASEMENT

PROP. HMA DRIVEWAY

PROP. CEM. CONC. DRIVEWAY (RESIDENTIAL)

PROP. CEM. CONC. WALK AT DRIVEWAY (RESIDENTIAL)

REM. CHAIN LINK FENCE AND GATE

RET. WALK

RET. SHRUB LINE

PROP. LOAM & SEED

RET. CLF.

PROP. HMA DRIVEWAY

PROP. CEM. CONC. DRIVEWAY (RESIDENTIAL)

PROP. CEM. CONC. WALK AT DRIVEWAY (RESIDENTIAL)

PROP. CONC. SW

APPROX. SLOPE LIMIT

PROP. HMA DRIVEWAY

PROP. CEM. CONC. WALK AT DRIVEWAY (COMMERCIAL)

PROP. CEM. CONC. DRIVEWAY (COMMERCIAL)

PROP. LOAM & SEED

RET. WALK

RET. LIGHT

L=42.28' R=112.00'
Δ=21° 37' 47"

CONTINUED ON SHEET NO. 21

PROP. FULL DEPTH PVM'T (LESS THAN 4.0' WIDE)

SAWCUT UNDERGROUND TRACKS (TYP.)

PROP. VERTICAL GRAN. CURB

SAWCUT PVM'T

PROP. PLANTING AREA (SEE PLANTING PLANS)

PROP. VERT. GRANITE CURB

PROP. FLUSH STAMPED & COLORED CONCRETE MEDIAN (SEE DETAILS)

PROP. STAMPED AND COLORED CONCRETE MEDIAN

PROP TRASH RECEPTACLE

PROP. FULL DEPTH PVM'T (LESS THAN 4.0' WIDE)

PROP. BUS SHELTER 4'X8'

PROP. CONC CEM PAD 8'X8',4'X4',8'X5'

END R&R GRAN. CURB
BEGIN PROP. GRAN. CURB

PROP. CEM. CONC. DRIVEWAY (RESIDENTIAL)

PROP. HMA DRIVEWAY

PROP. CEM. CONC. PEDESTRIAN CURB RAMP

PROP. CEM. CONC. WALK AT DRIVEWAY (RESIDENTIAL)

END PROP. CONC. SIDEWALK MATCH EXISTING

PROP. GRAN. CURB CORNER TYPE A (TYP.)

END PROP. GRAN. CURB

RET. WALK

PROP. CEM. CONC. SHARED-USE PATH

RET. BOUND

R&R GRAN. CURB

PROP. CONC. SW

RET. BOUND

PROP. LOAM & SEED (TYP.)

APPROX. SLOPE LIMIT

RET. BRICK WALK

PROP. CEM. CONC. DRIVEWAY (RESIDENTIAL)

PROP. HMA DRIVEWAY

PROP. CEM. CONC. WALK AT DRIVEWAY (RESIDENTIAL)

CONTINUED ON SHEET NO. 19

PROP. VERT. GRANITE CURB

PROP. PVM'T MILLING & OVERLAY

CONSTRUCTION ℄

N 76° 05' 59" E 3550.00'

SAWCUT PVM'T

PROP. FULL DEPTH PVM'T (LESS THAN 4.0' WIDE)

PROP. HMA BICYCLE RAMP (PAID UNDER ITEM 702.0)

PROP. LOAM & SEED

PROP. HMA DRIVEWAY

PROP. CEM. CONC. DRIVEWAY (COMMERCIAL)

PROP. CEM. CONC. WALK AT DRIVEWAY (COMMERCIAL)

PROP. LOAM & SEED

PROP. TEMP. EASEMENT (TYP.)

PROP. CEM. CONC. PEDESTRIAN CURB RAMP

END PROP. CONC. SIDEWALK MATCH EXISTING

BEGIN PROP. GRAN. CURB

LIMIT OF PVM'T MILLING & OVERLAY SAWCUT PVM'T

PROP. BENCH (TYP. - SEE STREETSCAPE PLANS)

PROP. FULL DEPTH PVM'T

PROP. BICYCLE RACK (TYP. - SEE STREETSCAPE PLANS)

PROP. WALK TO MEET BUILDING (TYP.)

PROP. CEM. CONC. SIDEWALK

END PROP. GRAN. CURB
BEGIN R&R GRAN CURB

GREGORY A. & EVA ROUGELLIS
BK/PG 05885/202
Map ID: 011450004
16 BEAUMONT ST

EDWARD M & JOANNE M PIKULA
BK/PG 08007/0095
Map ID: 011450036
17 BEAUMONT ST

TOWER REALTY PARKER ST LLC
BK/PG 23062/120
Map ID: 112800088
408 SUMNER AV

ROSEMARY PEREZ
BK/PG 15061/0330
Map ID: 112800087
402 SUMNER AV

PARKRIDGE PROPERTIES LLC
BK/PG 17662/288
Map ID: 112800089
420 SUMNER AV

ANTAGRACIA MIRIAN ESTRELLA DE URENA
BK/PG 24398/420
Map ID: 112800090
425 SUMNER AV

ISAAC GRULLON COLON
BK/PG 24472/564
Map ID: 112800091
432 SUMNER AV

SUMNER LLC
BK/PG 20291/164
Map ID: 112800092
440 SUMNER AV

PERSAM SPRINGFIELD LLC
BK/PG 21500/242
Map ID: 112800095
444 SUMNER AV

NALANI [illegible]
BK/PG 24[illegible]
Map ID: 0[illegible]
BELMONT AV

GEN-WEALTH PROPERTIES LLC
BK/PG 24814/392
Map ID: 112800426
407 SUMNER AV

JOSE L ESTEVEZ
BK/PG 16331/0161
Map ID: 112800425
415 SUMNER AV

PHUONG L. DO
BK/PG 15068/0443
Map ID: 031500017
11 CONTINENTAL ST

TG MEZZETTI
BK/PG 24949/301
Map ID: 112800424
419 SUMNER AV

PARKWOOD APARTMENTS LLC
BK/PG 18274/408
Map ID: 112800423
429 SUMNER AV

RF REALTY COMPANY LLC
BK/PG 19577/357
Map ID: 112800421
445 SUMNER AV

RF REALTY COMPANY LLC
BK/PG 19577/357
Map ID: 112800419
449 SUMNER AV

FELIZ AREZ JR
BK/PG 22210/406
Map ID: 095300003
14 PARKWOOD ST

RICHARD J LABR
BK/PG 1293
Map ID: 11
461 SUMNE

1872 CITY LAYOUT

FOR PROFILE: SEE SHEET NO. 36

0 20 50 100

SCALE: 1" = 20'

HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

SEE SHEET 108

WATER SUPPLY ALTERATIONS

SEE SHEETS 146 & 147

DRAINAGE DETAILS

SEE SHEETS 125 & 126

LEGEND:

FULL DEPTH PAVEMENT RECONSTRUCTION

STAMPED CONCRETE

PEDESTRIAN CURB RAMP (PCR)

PROPOSED PEDESTRIAN CURB RAMP DETAIL # X#

PROPOSED DRIVEWAY DETAIL # DR#–#

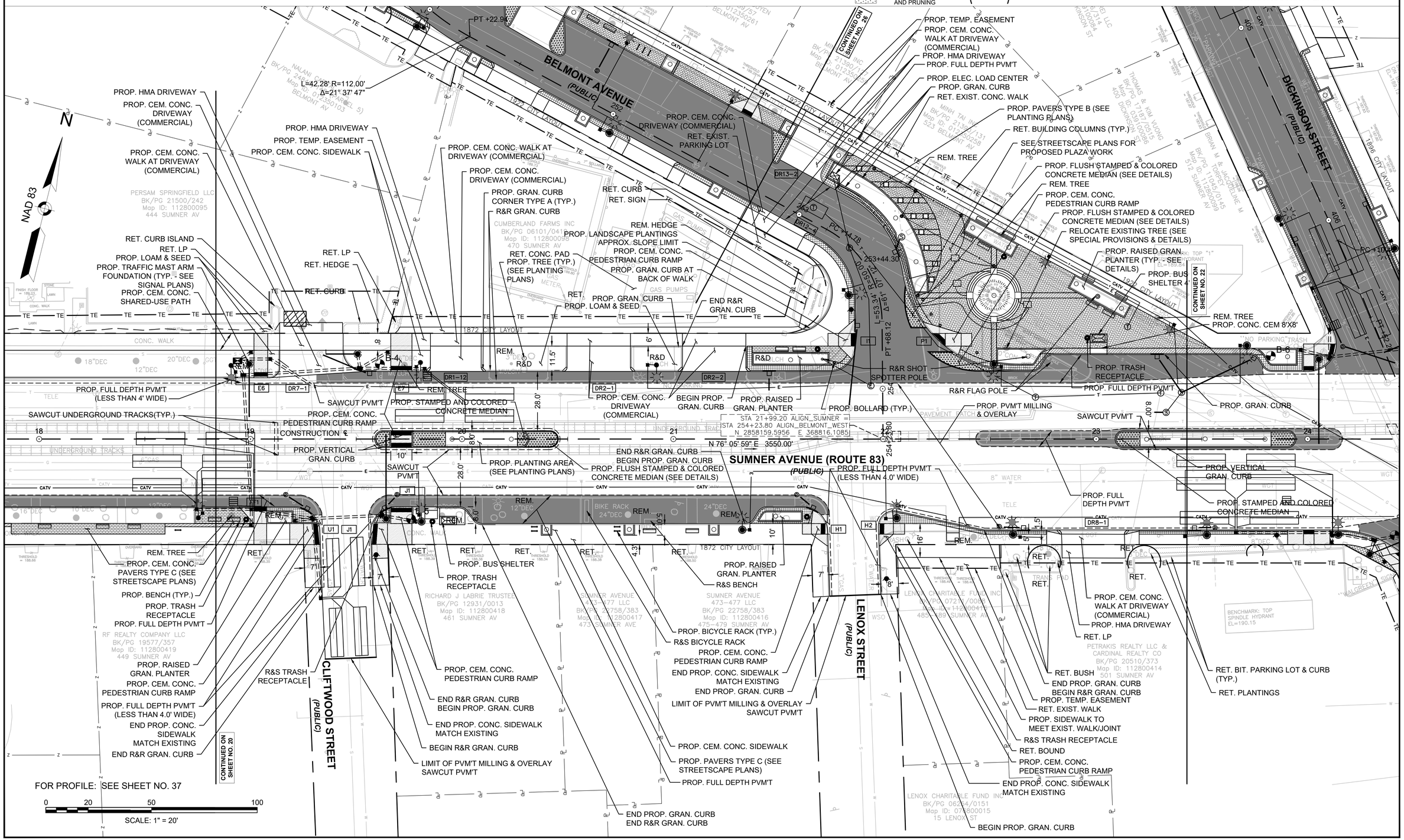
PROPOSED TREE PROTECTION - ARMORING AND PRUNING

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	21	358
PROJECT FILE NO.	608717		

CONSTRUCTION PLANS

20121457A70_HPN01.DWG Plotted on 5-May-2023 2:24 PM



HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

SEE SHEET 109

WATER SUPPLY ALTERATIONS

SEE SHEET 148

DRAINAGE DETAILS

SEE SHEET 127

LEGEND:

FULL DEPTH PAVEMENT RECONSTRUCTION

STAMPED CONCRETE

PEDESTRIAN CURB RAMP (PCR)

PROPOSED PEDESTRIAN CURB RAMP DETAIL # X#

PROPOSED DRIVEWAY DETAIL # DR#-#

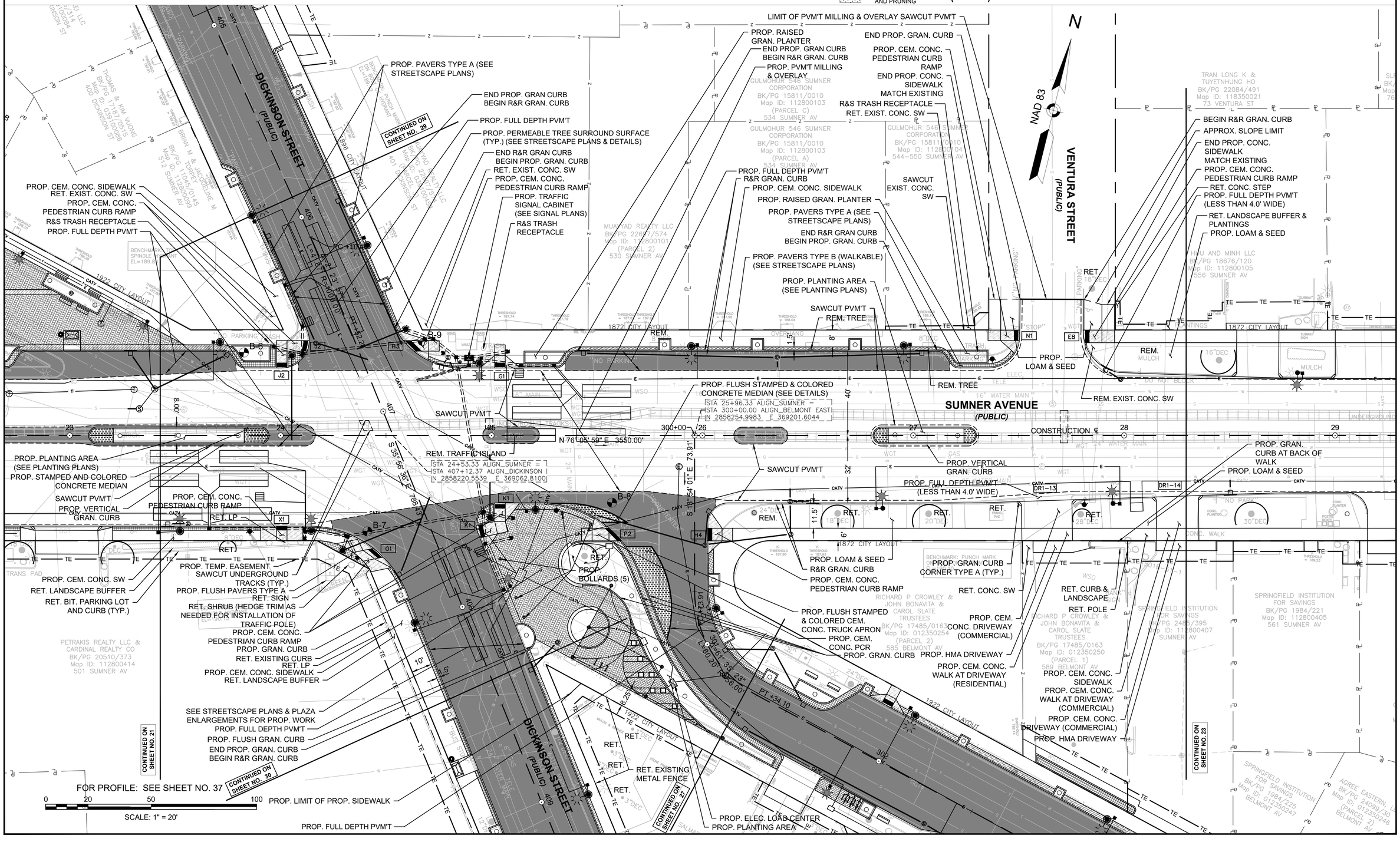
PROPOSED TREE PROTECTION - ARMORING AND PRUNING

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	22	358
	PROJECT FILE NO.	608717	

CONSTRUCTION PLANS

20121457A70_HPN01.DWG Plotted on 5-May-2023 2:24 PM



HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

SEE SHEET 149

DRAINAGE DETAILS

SEE SHEET 128

LEGEND:

FULL DEPTH PAVEMENT RECONSTRUCTION

STAMPED CONCRETE

PEDESTRIAN CURB RAMP (PCR)

PROPOSED PEDESTRIAN CURB RAMP DETAIL # X#

PROPOSED DRIVEWAY DETAIL # DR#-#

PROPOSED TREE PROTECTION - ARMORING AND PRUNING

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXX(XXX)X	23	358
	PROJECT FILE NO.	608717	

CONSTRUCTION PLANS

20121457A70_HPN01.DWG Plotted on 5-May-2023 2:24 PM

N

NAD 83

VENTURA STREET (PUBLIC)

SORRENTO STREET (PUBLIC)

SUMNER AVENUE (PUBLIC)

ORMOND STREET (PUBLIC)

PROP. TREE PROTECTION - ARMORING AND PRUNING (TYP.)
PROP. CEM. CONC. WALK AT DRIVEWAY (COMMERCIAL)
PROP. HMA DRIVEWAY
PROP. CEM. CONC. DRIVEWAY (COMMERCIAL)
RET. CURB
RET. MH
PROP. LOAM & SEED
PROP. CEM. CONC. WALK AT DRIVEWAY (COMMERCIAL)
LIMIT OF PVM'T MILLING & OVERLAY SAWCUT PVM'T
END R&R GRAN. CURB
PROP. LOAM & SEED
PROP. CEM. CONC. PEDESTRIAN CURB RAMP
END PROP. CONC. SIDEWALK MATCH EXISTING
RET. BOUND
PROP. CEM. CONC. DRIVEWAY (COMMERCIAL)
PROP. CEM. CONC. WALK AT DRIVEWAY(COMMERCIAL)
PROP. CEM. CONC. DRIVEWAY (COMMERCIAL)
SAWCUT CONCRETE
RET. MH
PROP. TRASH RECEPTACLE
PROP. CEM. CONC. 8'X8',4'X4',8'X5'
PROP. TEMP. EASEMENT
PROP. BUS SHELTER 4'X8'
PROP. LOAM & SEED
PROP. CEM. CONC. SIDEWALK
PROP. LOAM & SEED
BEGIN R&R GRAN. CURB
RET. LANDSCAPE PLANTINGS
END PROP. CONC. SIDEWALK MATCH EXISTING
RET. CURB
PROP. CEM. CONC. PEDESTRIAN CURB RAMP
RET. SIGN
BEGIN PROP. HMA CURB TYPE II
PROP. LOAM & SEED IN RAISED ISLANDS
RET. POSTAL BOX
SAWCUT PVM'T
PROP. GRAN. CURB CORNER TYPE A (TYP.)
PROP. PVM'T MILLING & OVERLAY
CONSTRUCTION ℄
N 76° 05' 59" E 3550.00'
SAWCUT PVM'T
R&S CONC. PLANTERS
REM. CONC.
END R&R GRAN. CURB BEGIN PROP. GRAN. CURB
PROP. FULL DEPTH PVM'T (LESS THAN 4.0' WIDE)
BEGIN R&R GRAN. CURB
END PROP. GRAN. CURB
SAWCUT PVM'T
PROP. GRAN. CURB
RET. EXIST. LANDSCAPING
RET. POSTAL BOXES
PROP. TREE (TYP.) (SEE PLANTING PLANS)
PROP. GRAN. CURB AT BACK OF WALK (4" REVEAL)
PROP. CEM. CONC. SW
RET. EXIST. PLANTINGS
RET. CURB
RET. CONC. WALK
RET. CURB
PROP. CEM. CONC. DRIVEWAY (COMMERCIAL)
PROP. CEM. CONC. WALK AT DRIVEWAY (COMMERCIAL)
PROP. HMA DRIVEWAY
RET. SIGNS
RET. WALK
PROP. CEM. CONC. WALK AT DRIVEWAY (COMMERCIAL)
PROP. CEM. CONC. DRIVEWAY (COMMERCIAL)
PROP. HMA DRIVEWAY
END R&R GRAN. CURB BEGIN PROP. GRAN. CURB
PROP. TREE (TYP.) (SEE PLANTING PLANS)
PROP. CEM. CONC. SIDEWALK
PROP. TEMP. EASEMENT
RET. EXIST. LANDSCAPE BUFFER
PROP. LOAM & SEED
RET. EXISITING FENCE
PROP. FULL DEPTH PVM'T
RET. EXIST. LANDSCAPE BUFFER
RET. POSTAL BOX
B-10
C-2
C-3
CONTINUED ON SHEET NO. 24
CONTINUED ON SHEET NO. 22
FOR PROFILE: SEE SHEET NO. 38

0 20 50 100
SCALE: 1" = 20'

TRAN LONG K & TUYETNHUNG HO
BK/PG 22084/491
Map ID: 118350021
73 VENTURA ST

SLF REALTY CORP
BK/PG 22981/560
Map ID: 109650013
76 SORRENTO ST

SONAL PATEL LLC
BK/PG 20954/83
Map ID: 112800108
570 SUMNER AV

HUU AND MNH LLC
BK/PG 18676/120
Map ID: 112800105
556 SUMNER AV

TGN ASSOCIATES LLC
BK/PG 22503/22
Map ID: 112800111
590 SUMNER AV

K S KANTOR LLC
BK/PG 13892/0227
Map ID: 112800112
(PARCEL 1)
598–600 SUMNER AV

K S KANTOR LLC
BK/PG 13892/0227
Map ID: 112800113
(PARCEL 2)
606 SUMNER AV

RICHARD P CROWLEY & JOHN BONAVITA & CAROL SLATE TRUSTEES
BK/PG 17485/0163
Map ID: 012350250
(PARCEL 1)
589 BELMONT AV

SPRINGFIELD INSTITUTION FOR SAVINGS
BK/PG 2485/395
Map ID: 112800407
SUMNER AV

SPRINGFIELD INSTITUTION FOR SAVINGS
BK/PG 1984/221
Map ID: 112800405
561 SUMNER AV

MASSACHUSETTS CVS PHARMACY LLC
BK/PG 17112/99
Map ID: 112800404
SUMNER AV

SPRINGFIELD INSTITUTION FOR SAVINGS
BK/PG 1984/225
Map ID: 012350247
BELMONT AV

AGREE, EASTERN, LLC
BK/PG 24099/30
Map ID: 012350246
(PARCEL 2)
BELMONT AV

AGREE, EASTERN, LLC
BK/PG 24099/30
Map ID: 012350242
(PARCEL 1)
#615 BELMONT

ISLAND REALTY INC
BK/PG 07990/0325
Map ID: 112800399
SUMNER AV

JAMES HENG
BK/PG 24453/393
Map ID: 112800398
603 SUMNER AV

WILLIAM E JR & LYN CUNNINGHAM TRUSTEES
BK/PG 20755/551
Map ID: 112800397
609 SUMNER AV

JAMES W FIORE
BK/PG 19415/160
Map ID: 093700011
11 ORMOND ST

1872 CITY LAYOUT

1906 CITY LAYOUT

HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

SEE SHEET 110

WATER SUPPLY ALTERATIONS

SEE SHEET 150

DRAINAGE DETAILS

SEE SHEET 129

LEGEND:

FULL DEPTH PAVEMENT RECONSTRUCTION

STAMPED CONCRETE

PEDESTRIAN CURB RAMP (PCR)

PROPOSED PEDESTRIAN CURB RAMP DETAIL # X#

PROPOSED DRIVEWAY DETAIL # DR#-#

PROPOSED TREE PROTECTION - ARMORING AND PRUNING

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXX(XXX)X	24	358
	PROJECT FILE NO. 608717		

CONSTRUCTION PLANS

20121457A70_HPN01.DWG Plotted on 5-May-2023 2:25 PM

N

NAD 83

SORRENTO STREET (PUBLIC)

POMONA STREET (PUBLIC)

SUMNER AVENUE (PUBLIC)

ORMOND STREET (PUBLIC)

DAYTONA STREET (PUBLIC)

END OF PROJECT
STA. 35+44.11
N 2858482.6860
E 370121.6284

STA 32+36.51 ALIGN_SUMNER = STA 500+00.10 ALIGN_ORMOND
N 2858408.6926 E 369823.0576

N 76° 05' 59" E 3550.00'

CONSTRUCTION ℄

CONTINUED ON SHEET NO. 31

CONTINUED ON SHEET NO. 23

FOR PROFILE: SEE SHEET NO. 38

0 20 50 100

SCALE: 1" = 20'

HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

SEE SHEET 151

DRAINAGE DETAILS

SEE SHEET 130

LEGEND:

FULL DEPTH PAVEMENT RECONSTRUCTION

STAMPED CONCRETE

PEDESTRIAN CURB RAMP (PCR)

PROPOSED PEDESTRIAN CURB RAMP DETAIL # X#

PROPOSED DRIVEWAY DETAIL # DR#–#

PROPOSED TREE PROTECTION - ARMORING AND PRUNING

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXX(XXX)X	25	358
	PROJECT FILE NO. 608717		

CONSTRUCTION PLANS

20121457A70_HPN01.DWG Plotted on 5-May-2023 2:25 PM

N

NAD 83

BEAUMONT STREET (PUBLIC)

LIMIT OF WORK
STA. 200+90.00
N 2858422.6534
E 368156.1247

FOR PROFILE: SEE SHEET NO. 44

0 20 50 100

SCALE: 1" = 20'

BELMONT AVENUE (PUBLIC)

BURLINGTON STREET (PUBLIC)

200+00

201 202 203 204 205 206 207

STA 204+16.38 ALIGN_BELMONT–BURLINGTON = STA 250+00.00 ALIGN_BELMONT_WEST
N_2858351.4766 _E_368472.0126

CONSTRUCTION ℄

PROP. LOAM & SEED (TYP.)
PROP. TREE (TYP.) (SEE PLANTING PLANS)
PROP. CONC. WALK
PROP. CEM. CONC. DRIVEWAY (RESIDENTIAL)
PROP. CEM. CONC. WALK AT DRIVEWAY (RESIDENTIAL)
PROP. CEM. CONC. DRIVEWAY (RESIDENTIAL)
PROP. LOAM & SEED
PROP. CEM. CONC. DRIVEWAY (RESIDENTIAL)
PROP. CEM. CONC. WALK AT DRIVEWAY (RESIDENTIAL)
PROP. CEM. CONC. SIDEWALK
R&R GRAN. CURB
PROP. HMA DRIVEWAY
PROP. CEM. CONC. DRIVEWAY (COMMERCIAL)
PROP. CEM. CONC. WALK AT DRIVEWAY (COMMERCIAL)
PROP. LOAM & SEED
PROP. TEMP. EASEMENT
PROP. HMA DRIVEWAY
PROP. CEM. CONC. WALK AT DRIVEWAY (COMMERCIAL)
PROP. HMA DRIVEWAY
PROP. CEM. CONC. DRIVEWAY (COMMERCIAL)
PROP. CEM. CONC. PEDESTRIAN CURB RAMP
PROP. HMA DRIVEWAY
PROP. RAISED ISLAND
PROP. PAVERS TYPE A
PROP. CEM. CONC. PEDESTRIAN CURB RAMP
PROP. CEM. CONC. WALK AT DRIVEWAY (COMMERCIAL)
PROP. RAISED ISLAND
PROP. PAVERS TYPE A
PROP. PAVERS TYPE A (SEE STREETSCAPE PLANS)
PROP. GRAN. CURB
END R&R GRAN. CURB
1922 CITY LAYOUT
BEGIN PROP. CONC. SIDEWALK MATCH EXISTING AT NEAREST JOINT
BEGIN R&R GRAN. CURB
PROP. GRAN. CURB CORNER TYPE A (TYP.)
PROP. FULL DEPTH PVM'T
PROP. LOAM & SEED
BEGIN R&R GRAN. CURB
RET. CURB
LIMIT OF FULL DEPTH PVM'T
SAWCUT PVM'T
RET. WALK
BEGIN PROP. CONC. SIDEWALK MATCH EXISTING AT NEAREST JOINT
RET. RAISED PLANTER & SIGN
RET. LANDSCAPING & SOD
PROP. TEMP. EASEMENT
PROP. CEM. CONC. PEDESTRIAN CURB RAMP
PROP. LOAM & SEED
END R&R GRAN. CURB
BEGIN PROP. GRAN. CURB
PROP. HMA DRIVEWAY
PROP. CEM. CONC. DRIVEWAY (COMMERCIAL)
PROP. CEM. CONC. WALK AT DRIVEWAY (COMMERCIAL)
PROP. CEM. CONC. WALK AT DRIVEWAY (COMMERCIAL)
PROP. CEM. CONC. DRIVEWAY (COMMERCIAL)
PROP. HMA DRIVEWAY
PROP. PAVERS TYPE A, TYP. (SEE STREETSCAPE PLANS)
PROP. PAVERS TYPE A
RET. & PROTECT METAL PIPE AWNING
PROP. CEM. CONC. SIDEWALK
PROP. TEMP. EASEMENT
PROP. CEM. CONC. PEDESTRIAN CURB RAMP
RET. SOD & PLANTINGS. CONTRACTOR TO AVOID ANY DAMAGES TO IRRIGATION OR EXIST. SOD
PROP. CEM. CONC.DRIVEWAY (COMMERCIAL)
PROP. CEM. CONC. WALK AT DRIVEWAY (COMMERCIAL)
PROP. HMA DRIVEWAY
RET. CURB
RET. & PROTECT SOD L=42.28' R=112.00' Δ=21° 37' 47"
END PROP. GRAN. CURB
PROP. FULL DEPTH PVM'T
PROP. PVM'T MILLING & OVERLAY
LIMIT OF FULL DEPTH PVM'T
SAWCUT PVM'T
BEGIN PROP. PVM'T MILL & OVERLAY STA. 205+77
END R&R GRAN. CURB
PROP. FULL DEPTH PVM'T
RET. BOUND
RET. PARKING & WHEEL STOPS
BEGIN R&R GRAN. CURB
L=54.94' R=35.00' Δ=89° 56' 27"
PC +88.91
PT +79.07
PC +05.16
Δ=37° 08' 53" L=73.91' R=114.00'
PT +43.85
250+00
250+17.59
204+23.87
RET. CONC. WALK
PT +33.82
PRC +80.65
PC +47.43 L=33.22' R=88.00' Δ=21° 37' 47"
PT +22.94
PROP. CEM. CONC. DRIVEWAY (COMMERCIAL)
PROP. CEM. CONC. WALK AT DRIVEWAY (COMMERCIAL)
PROP. HMA DRIVEWAY
PROP. LIMIT OF NEW HMA DRIVEWAY REPLACEMENT
R&S GRAN. CURB
PROP. WHEEL STOPS (7)
PROP. CEM. CONC. SIDEWALK
PROP. TEMP. EASEMENT
END R&R GRAN. CURB
BEGIN PROP. GRAN. CURB
PROP. HMA DRIVEWAY
PROP. PERM. EASEMENT
PROP. GRAN. CURB
PROP. CEM. CONC. PEDESTRIAN CURB RAMP
RET. STEP
PROP. GRAN. CURB
PROP. CEM. CONC. WALK AT DRIVEWAY (COMMERCIAL)
PROP. CEM. CONC. DRIVEWAY (COMMERCIAL)
R&S TRASH RECEPTACLE
APPROX. SLOPE LIMIT
PROP. CEM. CONC. PAVERS TYPE C (SEE STREETSCAPE PLANS)
PROP. FULL DEPTH PVM'T
END PROP. GRAN. CURB
PROP. HMA DRIVEWAY
RET. CURB
PROP. CEM. CONC. SIDEWALK
END PROP. CEM. CONC. SIDEWALK
CONTINUED ON SHEET NO. 25
CONTINUED ON SHEET NO. 26
DR2–3 DR2–4 DR2–5 DR2–6 DR8–2 DR8–3 DR8–4 DR9–1 DR11–1 DR8–5 DR8–6 DR10–1 DR3–3 G3 G2 Q1 L1 255–1
20' 20' 4' 5' 7.9' 4' 5.5' 13' 13' 5.5' 72.50'
REM. RET. TE TE TE

HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

SEE SHEET 152

DRAINAGE DETAILS

SEE SHEET 131

LEGEND:

FULL DEPTH PAVEMENT RECONSTRUCTION

STAMPED CONCRETE

PEDESTRIAN CURB RAMP (PCR)

PROPOSED PEDESTRIAN CURB RAMP DETAIL # X#

PROPOSED DRIVEWAY DETAIL # DR#–#

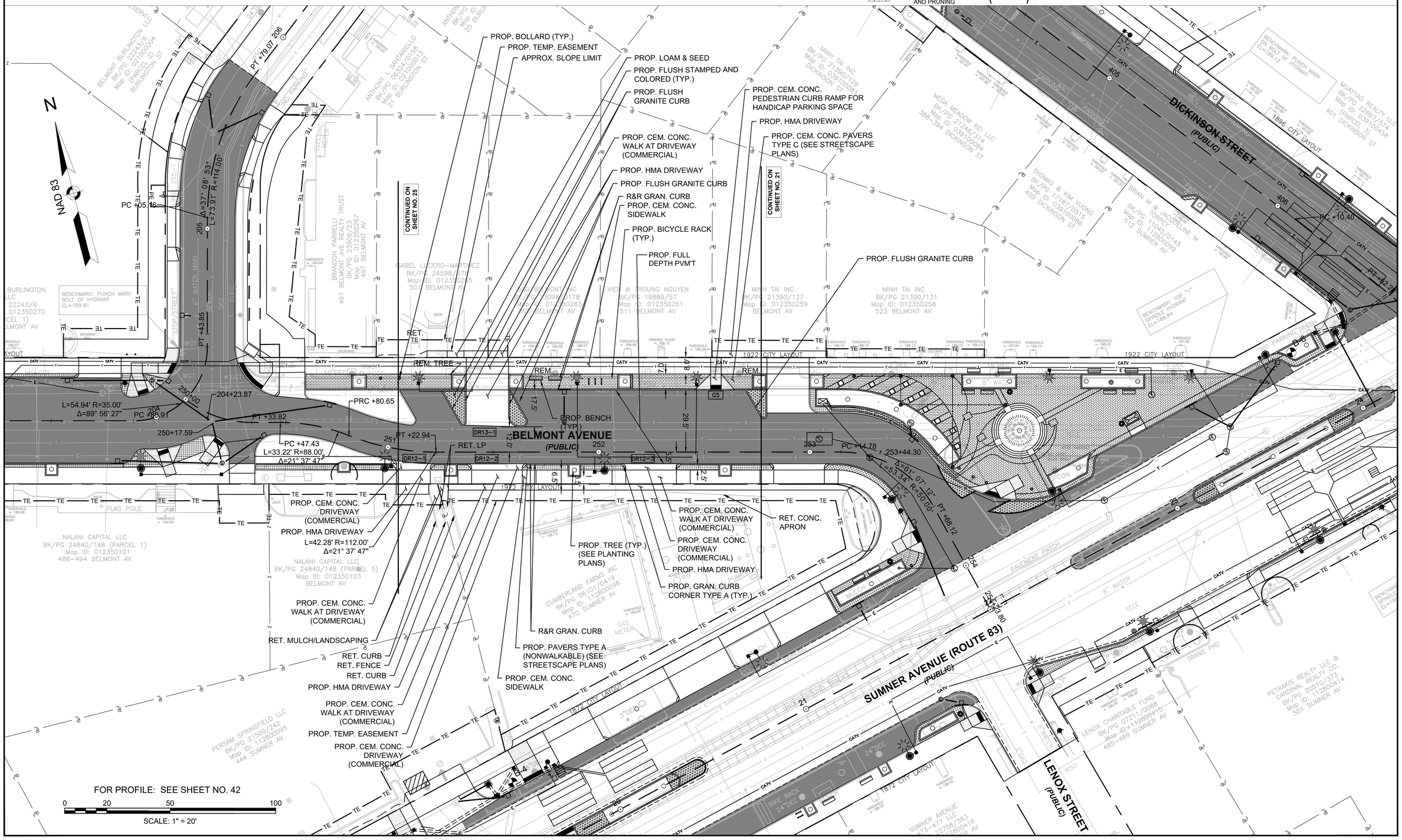
PROPOSED TREE PROTECTION - ARMORING AND PRUNING

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	26	358
	PROJECT FILE NO.	608717	

CONSTRUCTION PLANS

20121457A70_HPN01.DWG Plotted on 5-May-2023 2:25 PM



HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

SEE SHEET 153

DRAINAGE DETAILS

SEE SHEET 132

LEGEND:

FULL DEPTH PAVEMENT RECONSTRUCTION

STAMPED CONCRETE

PEDESTRIAN CURB RAMP (PCR)

PROPOSED PEDESTRIAN CURB RAMP DETAIL # X#

PROPOSED DRIVEWAY DETAIL # DR#–#

PROPOSED TREE PROTECTION - ARMORING AND PRUNING

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXX(XXX)X	27	358
	PROJECT FILE NO.	608717	

CONSTRUCTION PLANS

20121457A70_HPN01.DWG Plotted on 5-May-2023 2:26 PM

SUMNER AVENUE (PUBLIC)

BELMONT AVENUE (ROUTE 83) (PUBLIC)

DICKINSON STREET (PUBLIC)

TRENTON STREET (PUBLIC)

COMMONWEALTH AVENUE (PUBLIC)

PROP. FULL DEPTH PVM'T
PROP. STAMPED & COLORED CONC. TRUCK APRON (SEE CONST. DETAILS)
PROP. 3' HT. ALUMINUM FENCE
PROP. HMA DRIVEWAY
PROP. CEM. CONC. SHARDED-USE PATH
PROP. TEMP. EASEMENT
PROP. GRAN. BOUND
STA 902+45.21 ALIGN–COMMONWEALTH
STA 304+71.60 ALIGN_BELMONT EAST
N 2858057.9360 E 369586.4236
PROP. STAMPED & COLORED CONCRETE SPLITTER ISLAND
PROP. MOUNTABLE GRAN. CURB
PROP. HMA BICYCLE RAMP
PROP. FULL DEPTH PVM'T
PROP. CEM. CONC. WALK AT DRIVEWAY (COMMERCIAL)
PROP. CEM. CONC. DRIVEWAY (COMMERCIAL)
END PROP. CITY LAYOUT ALTERATION
PROP. HMA DRIVEWAY
RET. CURB
PROP. LOAM & SEED
RET. LANDSCAPING & SOD
PROP. CEM. CONC. PEDESTRIAN CURB RAMP
PROP. LOAM & SEED
PROP. GRAN. CURB
BEGIN PROP. CITY LAYOUT ALTERATION
PROP. CEM. CONC. PEDESTRIAN CURB RAMP
PROP. GRAN. CURB
PROP. GRAN. BOUND
PROP. HMA DRIVEWAY
RET. SIGN & BOLLARDS
PROP. CEM. CONC. WALK AT DRIVEWAY (COMMERCIAL)
PROP. CEM. CONC. DRIVEWAY (COMMERCIAL)
RET. EXIST. PARKING LOT PVM'T
PROP. TREE (TYP.) (SEE PLANTING PLANS)
REM. EXIST. CURB ISLAND
PROP. GRAN. CURB
PROP. CEM. CONC. WALK
PROP. PAVERS TYPE B (WALKABLE - SEE STREETSCAPE PLANS)
RET. EXISTING WALK
PROP. CEM. CONC. PCR FOR HANDICAP PARKING SPACE
END. PROP. GRAN. CURB
BEGIN R&R GRAN. CURB
PROP. RAISED GRAN. PLANTER
PROP. BENCH (TYP.)
PROP. BUS SHELTER 4'X8'
END R&R GRAN. CURB
BEGIN PROP. GRAN. CURB
PROP. CEM. CONC. WALK AT DRIVEWAY (COMMERCIAL)
PROP. CEM. CONC. DRIVEWAY (COMMERCIAL)
REM. TREE
PROP. FULL DEPTH PVM'T
REM. PLANTINGS (TYP.)
PROP. BENCH (TYP.)
RET. CONC. BLOCK
PROP. CEM. CONC. PEDESTRIAN CURB RAMP
PROP. TRAVERSABLE GRAN. CURB (SEE CONST. DETAILS)
PROP. TEMP. EASEMENT
PROP. PERM. EASEMENT
PROP. GRAN. CURB CORNER TYPE A (TYP.)
PROP. CEM. CONC. SIDEWALK
PROP. BICYCLE RACK (TYP.)
PROP. CEM. CONC. DRIVEWAY (COMMERCIAL)
PROP. CEM. CONC. WALK AT DRIVEWAY (COMMERCIAL)
PROP. HMA DRIVEWAY
R&D CONC. FOUNDATION
PROP. HMA DRIVEWAY
R&S BOLLARDS
END PROP. GRAN. CURB
BEGIN R&R GRAN. CURB
PROP. FLUSH STAMPED & COLORED CONCRETE APRON (SEE DETAILS)
RET. GRAVEL
RET. EXIST. CONC. WALL
PROP. CEM. CONC. PEDESTRIAN CURB RAMP
PROP. MOUNTABLE GRAN. CURB
PROP. CEM. CONC. PEDESTRIAN CURB RAMP
PROP. CEM. CONC. WALK
PROP. LOAM & SEED
PROP. HMA DRIVE
RET. GRAVEL DRIVE
PROP. CEM. CONC. DRIVEWAY (COMMERCIAL)
PROP. CEM. CONC. WALK AT DRIVEWAY (COMMERCIAL)
RET. CONC. SW
RET. WALK
RET. CONC. SW
RET. FENCE
RET. LANDSCAPING
PROP. PAVERS TYPE C (SEE STREETSCAPE PLANS)
BEGIN R&R GRAN. CURB
RET. SIGNS
PROP. HMA DRIVEWAY
END PROP. GRAN. CURB
PROP. GRAN. CURB ISLAND
R&R BOLLARDS & CHAIN
PROP. LOAM & SEED
PROP. CEM. CONC. PEDESTRIAN CURB RAMP
END PROP. CITY LAYOUT ALT.
PROP. SLOPE LIMIT
BEGIN PROP. CITY LAYOUT ALTERATION
PROP. CEM. CONC. PEDESTRIAN CURB RAMP
PROP. HMA DRIVEWAY
PROP. HMA BICYCLE RAMP (PAID UNDER I
PROP. LOAM & SEED
PROP. CEM. CONC. WALK AT DRIVEWAY (COMMERCIAL)
PROP. CEM. CONC. DRIVEWAY (COMMERCIAL)
BEGIN PROP. GRAN. CURB
LIMIT OF FULL DEPTH PVM'T SAWCUT
END R&R GRAN. CURB
PROP. FULL DEPTH PVM'T
END PROP. CEM. CONC. SIDEWALK MATCH EXISTING
LIMIT OF WORK STA. 901+00.00 N 2857929.9642 E 369649.8683
CONTINUED ON SHEET NO. 22
CONTINUED ON SHEET NO. 28
FOR PROFILE: SEE SHEET NO. 43
SCALE: 1" = 20'
N
NAD 83

HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

SEE SHEET 154

DRAINAGE DETAILS

SEE SHEET 133

FULL DEPTH PAVEMENT RECONSTRUCTION

STAMPED CONCRETE

PEDESTRIAN CURB RAMP (PCR)

LEGEND:

PROPOSED PEDESTRIAN CURB RAMP DETAIL # X#

PROPOSED DRIVEWAY DETAIL # DR#–#

PROPOSED TREE PROTECTION - ARMORING AND PRUNING

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	28	358
	PROJECT FILE NO. 608717		

CONSTRUCTION PLANS

20121457A70_HPN01.DWG Plotted on 5-May-2023 2:26 PM

N

NAD 83

CONTINUED ON SHEET NO. 27

CONTINUED ON SHEET NO. 31

ORMOND STREET (PUBLIC)

BELMONT AVENUE (ROUTE 83) (PUBLIC)

COMMONWEALTH AVENUE (PUBLIC)

TRENTON STREET (PUBLIC)

1905 CITY LAYOUT

1922 CITY LAYOUT

1903 CITY LAYOUT

END PROP. GRAN. CURB
BEGIN R&R GRAN. CURB

PROP. LOAM & SEED

PROP. PERMANENT EASEMENT

PROP. CEM. CONC. PEDESTRIAN CURB RAMP

PROP. FULL DEPTH PVM'T

END R&R GRAN. CURB
BEGIN PROP. GRAN. CURB

APPROX. SLOPE LIMIT

RET. LP

PROP. CEM. CONC. SIDEWALK

RET. CURB, PVM'T & PLANTINGS

END PROP. GRAN. CURB
BEGIN R&R GRAN. CURB

RET. CURB

PROP. TREE (TYP.)
(SEE PLANTING PLANS)

PROP. HMA DRIVEWAY

PROP. CEM. CONC. SIDEWALK

RET. BOUND

PROP. CEM. CONC. PEDESTRIAN CURB RAMP

END PROP. CONC. SIDEWALK MATCH EXISTING

PROP. LOAM & SEED

LIMIT OF WORK
STA. 309+32.36
N 2857942.4936
E 370032.4873

END R&R GRAN. CURB

STA 308+28.63 ALIGN_BELMONT EAST
STA 504+53.60 ALIGN_ORMOND
N 2857968.4834 E 369932.0638

309+32.36

LIMIT OF FULL DEPTH PVM'T SAWCUT PVM'T STA 308+52.39

PROP. BUS SHELTER 4'X8.6'

PROP. CEM CONC PAD

PROP. LOAM & SEED

END PROP. GRAN. CURB

PROP. CONC. SW PANEL

RET. WALK

CONSTRUCTION ℄
S 75° 29' 24" E 798.26'

PROP. LOAM & SEED
PROP. CEM. CONC. PEDESTRIAN CURB RAMP

S 13° 55' 09" E 433.85

R&R CHAIN LINK FENCE

RET. PAVER WALK

R&S STONE PAVERS

RET. CONC. SW

RET. CONC.

RET. EXIST. VEGE

PROP. LOAM & SEED

END PROP. GRANITE CURB
BEGIN R&R GRAN. CURB

END R&R GRANITE CURB
BEGIN PROP. GRAN. CURB

PROP. CONC. SW PANEL

PROP. CEM. CONC. DRIVEWAY (COMMERCIAL)

PROP. CEM. CONC. SIDEWALK

PROP. CEM. CONC. WALK AT DRIVEWAY (COMMERCIAL)

RET. CURB

END PROP. CEM. CONC. SIDEWALK MATCH EXISTING AT NEAREST JOINT

RET. HMA WALK

PROP. LOAM & SEED UP TO BUILDING FACE

PROP. CONC. SW PANEL

PROP. LOAM & SEED UP TO BUILDING FACE

PROP. TEMP. EASEMENT

LIMIT OF WORK
STA. 901+00.00
N 2857929.9642
E 368649.6683

PC=71.38

900+00

FOR PROFILE: SEE SHEET NO. 43

0 20 50 100

SCALE: 1" = 20'

AGREE EASTERN, LLC
BK/PG 24099/30
Map ID: 012350242
(PARCEL 1)
#615 BELMONT

THUY TINH NGUYEN
BK/PG 14012/0454
Map ID: 012350112
616 BELMONT AV

CHRISTOPHER DM & PAUL A DONOHUE
BK/PG 05880/0338
Map ID: 012350114
624 BELMONT AV

ANTONIO R SORCINELLI
BK/PG 12759/0538
Map ID: 012350115
632 BELMONT AV

DOS GORDITOS LLC
BK/PG 20089/192
Map ID: 012350116
638 BELMONT AV

DANAI S MACRIDI
BK/PG 22191/362
Map ID: 012350117
642 BELMONT AV

TRINI JACKSON ROBINSON
BK/PG 18479/428
Map ID: 012350118
648–650 BELMONT AV

RAJAB BASEM HASHEM
BK/PG 05475/0066
Map ID: 012350118
44 WALDEN ST

BINH NGUYEN
BK/PG 24180/428
Map ID: 030350003
14–16 COMMONWEALTH AV

CHRISTOPHER J DONOHUE
BK/PG 18430/289
Map ID: 030350139
COMMONWEALTH AV

PHUNG M LE
BK/PG 18977/49
Map ID: 012350123
678–680 BELMONT AV

JAMES TRUMBLE
BK/PG 11435/0038
Map ID: 119250012
57 WALDEN ST

CEDAR INVESTMENT GROUP, LLC
BK/PG 20263/10
Map ID: 119250013
53 WALDEN ST

A RODRIGUEZ
BK/PG 16719/236
Map ID: 037150001
27 ORMOND ST

MICHAEL & ANTONIA ZEMBEKAKIS
BK/PG 10370/0010
Map ID: 037150010
27 ORMOND ST

IBRAHIM MOHAMED
BK/PG 24690/426
Map ID: 037150006
30 DAYTONA ST

WOODSIDE REALTY LLC
BK/PG 10364/0423
Map ID: 012350238
645 BELMONT AV

ROBERTO A. PEREZ & DORA A. MATUTE
BK/PG 24253/347
Map ID: 012350237
653 BELMONT AV

RAUL N MEDINA
BK/PG 22461/387
Map ID: 012350236
655 BELMONT AV

PEREZ MARICELI
BK/PG 13946/0164
Map ID: 037150007
34 DAYTONA ST

OLGA VELEZ & SAMUEL FIGUEROA
BK/PG 21996/502
Map ID: 012350235
661 BELMONT AV

DLJ MORTGAGE CAPITAL INC
BK/PG 23600/237
Map ID: 037150008
42 DAYTONA ST

WILLIAM K OCONNOR & JOANNE L LUPI
BK/PG 08723/0079
Map ID: 012350234
665 BELMONT AV

HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

SEE SHEET 155

DRAINAGE DETAILS

SEE SHEET 134

LEGEND:

FULL DEPTH PAVEMENT RECONSTRUCTION

STAMPED CONCRETE

PEDESTRIAN CURB RAMP (PCR)

PROPOSED PEDESTRIAN CURB RAMP DETAIL # X#

PROPOSED DRIVEWAY DETAIL # DR#-#

PROPOSED TREE PROTECTION - ARMORING AND PRUNING

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	29	358
PROJECT FILE NO.	608717		

CONSTRUCTION PLANS

20121457A70_HPN01.DWG Plotted on 5-May-2023 2:26 PM

N

NAD 83

LIMIT OF WORK
STA. 400+80.47
N 2858716.8242
E 368671.8197

PROPOSED CEM. CONC. PEDESTRIAN CURB RAMP PANEL REPLACEMENT, MATCH EXISTING

PROP. LOAM & SEED

RET. CURB

PROP. GRAN. CURB

S 42° 07' 54" E 80.47'

PC +80.47

PT +46.60

L=66.13' R=1000.00'
Δ=3° 47' 21"

LIMIT OF FULL DEPTH PVM'T SAWCUT PVM'T

RET. CURB
PROP. LOAM & SEED

RET. EXIST. CONC. SIDEWALK

STA 401+76.59 ALIGN_DICKINSON =
STA 208+20.94 ALIGN_BELMONT-BURLINGTON
N 2858642.8277 E 368733.1316

LIMIT OF FULL DEPTH PVM'T SAWCUT PVM'T

PROP. PVM'T MILLING & OVERLAY

FOR PROFILE: SEE SHEET NO. 39

0 20 50 100
SCALE: 1" = 20'

BEGIN PROP. GRAN. CURB

PROP. CEM. CONC. PEDESTRIAN CURB RAMP

RET. CHAIN LINK FENCE

RET. BOUND

R&S METAL FENCE

PROP. LOAM & SEED

END PROP. GRAN. CURB
BEGIN R&R GRAN. CURB

PROP. LOAM & SEED

RET. HEDGE LINE

PROP. CONC. WALK

PROP. CEM. CONC. SIDEWALK

RET. HEDGE LINE

PROP. TEMP. EASEMENT

PROP. HMA DRIVEWAY

PROP. CEM. CONC. SIDEWALK (COMMERCIAL)

PROP. CEM. CONC. DRIVEWAY (COMMERCIAL)

RET. CONC. FOUNDATION & SIGN

PROP. LOAM & SEED

PROP. HMA DRIVEWAY

PROP. CEM. CONC. SIDEWALK (COMMERCIAL)

PROP. CEM. CONC. DRIVEWAY (COMMERCIAL)

PROP. CEM. CONC. DRIVEWAY (COMMERCIAL)

R&S BOLLARD

PROP. HMA DRIVEWAY

PROP. CEM. CONC. SIDEWALK (COMMERCIAL)

PROP. CEM. CONC. DRIVEWAY (COMMERCIAL)

PROP. PAVERS TYPE A (SEE STREETSCAPE PLANS)

R&S BOLLARD

PROP. LOAM & SEED

RET. ASPHALT BERM

R&S TRASH RECEPTACLE

R&S BOLLARD

PROP. PERMEABLE TREE SURROUND SURFACE (SEE STREETSCAPE PLANS)

REM. TREE

RET. CLF

PROP. FULL DEPTH PVM'T CONSTRUCTION ℄

PROP. LOAM & SEED

PROP. TREE (TYP. - SEE STREETSCAPE PLANS)

S 38° 20' 33" E 463.80'

PROP. RAISED GRANITE ISLAND

PC +10.40

PT +52.24

PROP. CONC. WALK

PROP. LOAM & SEED

REM.

REM.

REM. TREE

RET.

PROP. RAISED GRAN. PLANTER

END PROP. GRAN. CURB
BEGIN R&R GRAN. CURB

PROP. RAISED GRAN. PLANTER

PROP. CEM. CONC. SIDEWALK

RET. RAISED ISLAND

PROP. CEM. CONC. DRIVEWAY (COMMERCIAL)

PROP. CEM. CONC. WALK AT DRIVEWAY (COMMERCIAL)

PROP. HMA DRIVEWAY

END R&R GRAN. CURB
BEGIN PROP. GRAN. CURB

APPROX. SLOPE LIMIT

PROP. LOAM & SEED

PROP. CEM. CONC. PEDESTRIAN CURB RAMP

BEGIN PROP. GRAN. CURB

RET. EXIST. CONC. SIDEWALK

PROP. GRAN. CURB CORNER TYPE A (TYP.)

RET. RAISED ISLAND

PROP. TEMP. EASEMENT

RET. GUARDRAIL

PROP. PAVERS TYPE C (SEE STREETSCAPE PLANS)

253+44.30
Δ=61° 07' 12"
L=53.34' R=50.00'
PC +44.78
PT +98.12

CONTINUED ON SHEET NO. 22

CONTINUED ON SHEET NO. 25

GRENADA TERRACE (PUBLIC)

DICKINSON STREET (PUBLIC)

BURLINGTON STREET (PUBLIC)

HOLY NAME CATHOLIC ASSOCIATION
BK/PG/ 2029/278
Map ID: 039100474
DICKINSON ST

BISWA GANGA
BK/PG 20723/335
Map ID: 039100075
359 DICKINSON ST

EURIPIDES PETER PIATTI-RIOS
BK/PG 23787/239
Map ID: 039100076
358 DICKINSON ST

SALVATORE O CIRCOSTA
BK/PG 20228/527
Map ID: 039100077
24 BURLINGTON AV

ANTONIO CALVANESE
BK/PG 20996/150
Map ID: 021000006
19 BURLINGTON ST

ANTHONY L SANTANIELLO
BK/PG 06324/0158
Map ID: 021000013
21 BURLINGTON ST

ANTHONY L SANTANIELLO
BK/PG 07357/0103
Map ID: 021000012
25 BURLINGTON ST

FREEDOM PROPERTY GROUP LLC
BK/PG 32116/0577
Map ID: 039100077
368 DICKINSON ST

PHUNG M LE
BK/PG 20981/46
Map ID: 039100078
DICKINSON ST

PHUNG LE
BK/PG 19477/172
Map ID: 039100079
378-380 DICKINSON ST

MINH TAN INC
BK/PG 21390/125
Map ID: 039100081
DICKINSON ST

MEGA MEADOW REI LLC
BK/PG 21246/314
Map ID: 039100084
388-394 DICKINSON ST

THOMAS & KIM VUONG
BK/PG 17187/0515
Map ID: 039100086
400 DICKINSON ST

MUAYYAD REALTY LLC
BK/PG 22697/574
Map ID: 039100461
(PARCEL 1)
DICKINSON ST

MUAYYAD REALTY LLC
BK/PG 22697/574
Map ID: 039100458
(PARCEL 3)
401 DICKINSON ST

BRIAN M & JACQUELINE M TORREY
BK/PG 11045/0145
Map ID: 112800099
512 SUMNER AV

MINH TAI INC
BK/PG 21390/131
Map ID: 012350258
523 BELMONT AV

MINH TAI INC
BK/PG 21390/127
Map ID: 012350259
BELMONT AV

VIEN & TROUNG NGUYEN
BK/PG 19889/57
Map ID: 012350261
511 BELMONT AV

509 BELMONT INC
BK/PG 13096/0178
Map ID: 012350263
BELMONT AV

IRENE A FONTAINE
BK/PG 07687/499
Map ID: 060600038
17 GRENADA TERRACE

IVY SAM LAP & KIM CHAM TANG TRUSTEES
BK/PG 11118/0391
Map ID: 039100464
385 DICKINSON ST

FOREST ORCHARD LLC
BK/PG 24835/469
Map ID: 039100465
371 DICKINSON ST

BENCHMARK: PUNCH MARK ON BOLT OF HYDRANT
EL= 189.12

BENCHMARK: TOP SPINDLE OF HYDRANT
EL= 188.84

1896 CITY LAYOUT

1922 CITY LAYOUT

HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

SEE SHEET 156

DRAINAGE DETAILS

SEE SHEET 135

LEGEND:

FULL DEPTH PAVEMENT RECONSTRUCTION

STAMPED CONCRETE

PEDESTRIAN CURB RAMP (PCR)

PROPOSED PEDESTRIAN CURB RAMP DETAIL # X#

PROPOSED DRIVEWAY DETAIL # DR#–#

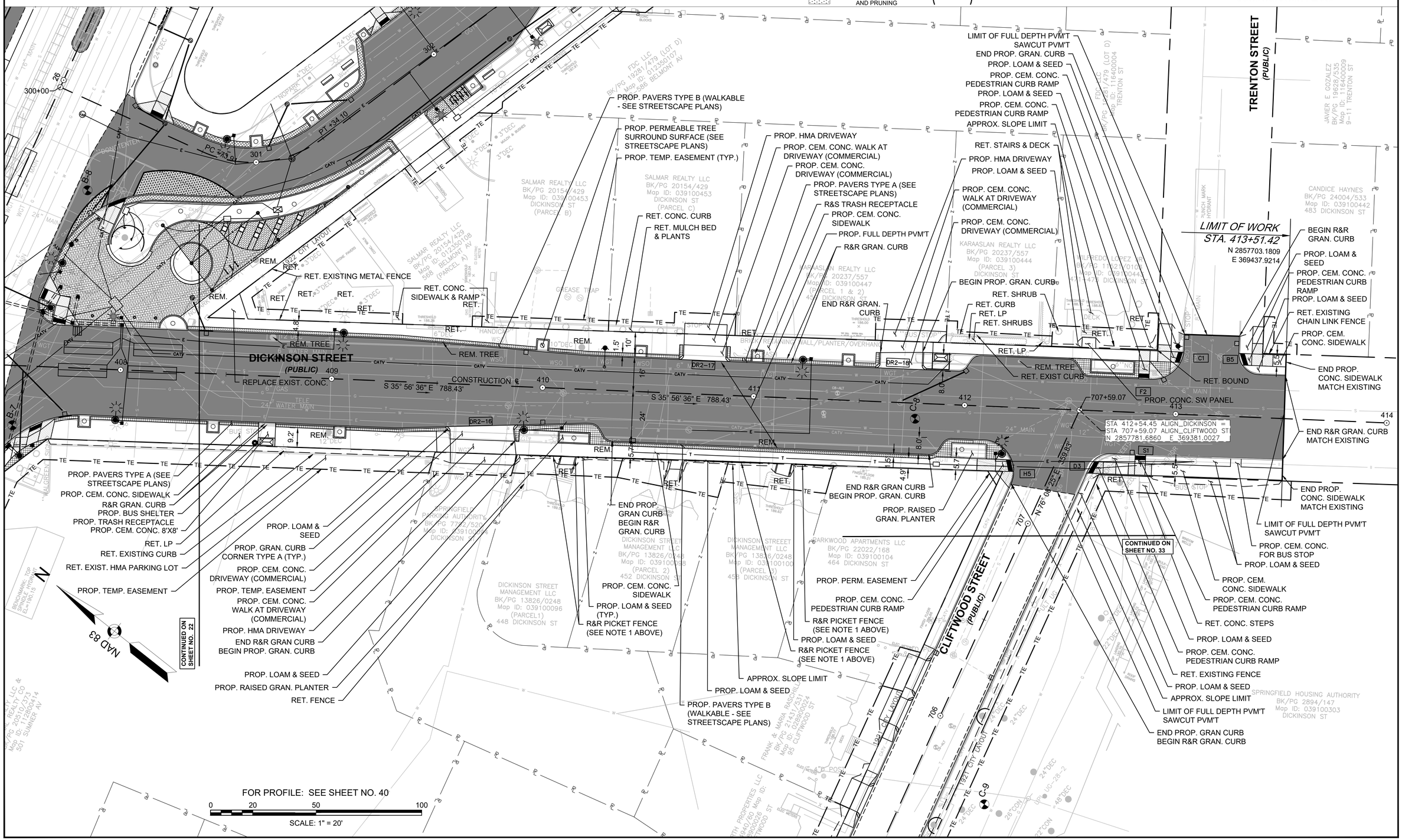
PROPOSED TREE PROTECTION - ARMORING AND PRUNING

NOTE 1: IT IS PREFERABLE TO NOT HAVE TO R&R THE PICKET FENCE IN ORDER TO AVOID FURTHER DAMAGE/DISTURBANCE. IF THE NEW SIDEWALK CAN BE INSTALLED WITHOUT DAMAGING EXISTING PICKET FENCES THE CONTRACTOR MAY KEEP THE FENCE IN PLACE.

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	30	358
PROJECT FILE NO.	608717		

CONSTRUCTION PLANS



Plotted on 5-May-2023 2:26 PM

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HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

SEE SHEET 157

DRAINAGE DETAILS

SEE SHEET 136

LEGEND:

FULL DEPTH PAVEMENT RECONSTRUCTION

STAMPED CONCRETE

PEDESTRIAN CURB RAMP (PCR)

PROPOSED PEDESTRIAN CURB RAMP DETAIL # X#

PROPOSED DRIVEWAY DETAIL # DR#–#

PROPOSED TREE PROTECTION - ARMORING AND PRUNING

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXX(XXX)X	31	358
	PROJECT FILE NO. 608717		

CONSTRUCTION PLANS

20121457A70_HPN01.DWG Plotted on 5-May-2023 2:27 PM

SUMNER AVENUE (PUBLIC)

ORMOND STREET (PUBLIC)

BELMONT AVENUE (ROUTE 83) (PUBLIC)

LIMIT OF WORK
STA. 309+32.36
N 2857942.4936
E 370032.4873

PROP. HMA DRIVEWAY
R&R GRAN. CURB
PROP. CEM. CONC. SIDEWALK
APPROX. SLOPE LIMIT
PROP. LOAM & SEED
PROP. HMA DRIVEWAY
PROP. CEM. CONC. WALK AT DRIVEWAY (RESIDENTIAL)
PROP. CEM. CONC. DRIVEWAY (RESIDENTIAL)
PROP. FULL DEPTH PVM'T
PROP. TEMP. EASEMENT
PROP. TREE (TYP.) (SEE PLANTING PLANS)
PROP. CEM. CONC. DRIVEWAY (COMMERCIAL)
PROP. CEM. CONC. WALK AT DRIVEWAY (COMMERCIAL)

PROP. CEM. CONC. WALK AT DRIVEWAY (RESIDENTIAL)
PROP. CEM. CONC. DRIVEWAY (COMMERCIAL)
PROP. CEM. CONC. DRIVEWAY (RESIDENTIAL)
PROP. LOAM & SEED
RET. EXIST. VEGE
RET.
REM. WALK
REM. CONC. WALK
PROP. CONC. SW PANEL (TYP. ALONG ALL HOUSES ON ORMOND STREET)
S 13° 55' 09" E 453.65' CONSTRUCTION ℄
RET. SIGN
RET. RAISED GRATE
RET. FENCE & EXIST. PLANTINGS
R&R GRAN. CURB
PROP. CEM. CONC. SIDEWALK
PROP. LOAM & SEED
PROP. TREE PROTECTION - ARMORING AND PRUNING (TYP.)
RET. CONC. PAD
PROP. GRAN. CURB CORNER TYPE A (TYP.)
PROP. CEM. CONC. DRIVEWAY (COMMERCIAL)
PROP. CEM. CONC. WALK AT DRIVEWAY (COMMERCIAL)
PROP. TEMP. EASEMENT
PROP. HMA DRIVEWAY
RET. CURB
RET. FENCE
APPROX. SLOPE LIMIT

CONTINUED ON SHEET NO. 24

CONTINUED ON SHEET NO. 28

FOR PROFILE: SEE SHEET NO. 41

0 20 50 100
SCALE: 1" = 20'

N
NAD 83

HIGHWAY GUARD DETAILS	TRAFFIC SIGNAL CONDUIT	WATER SUPPLY ALTERATIONS	DRAINAGE DETAILS
NONE	NONE	SEE SHEET 158	SEE SHEET 137

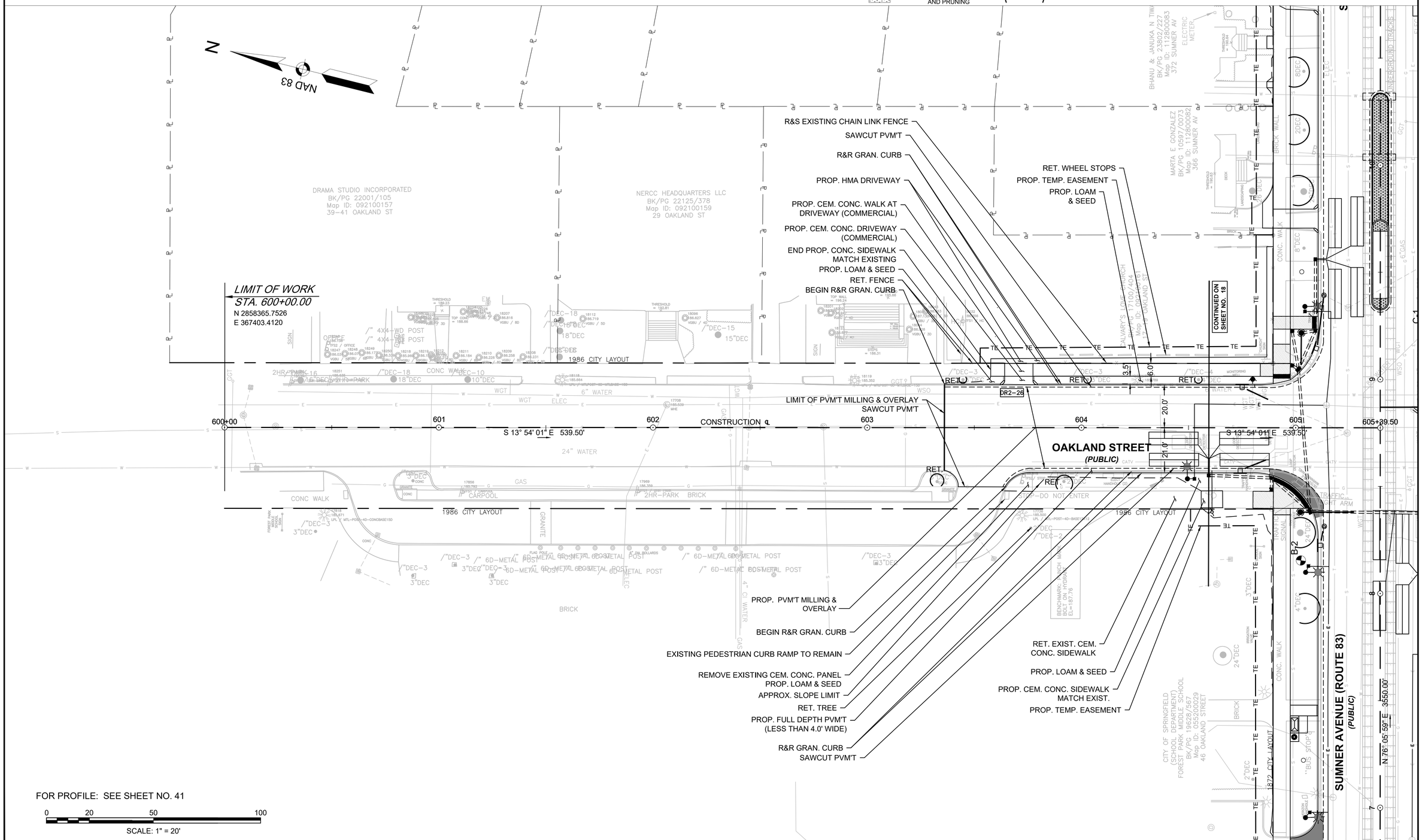
LEGEND:

- FULL DEPTH PAVEMENT RECONSTRUCTION
- STAMPED CONCRETE
- PEDESTRIAN CURB RAMP (PCR)
- PROPOSED PEDESTRIAN CURB RAMP DETAIL # X#
- PROPOSED DRIVEWAY DETAIL # DR#–#
- PROPOSED TREE PROTECTION - ARMORING AND PRUNING

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	32	358
PROJECT FILE NO.	608717		

CONSTRUCTION PLANS



FOR PROFILE: SEE SHEET NO. 41

0 20 50 100

SCALE: 1" = 20'

20121457A70_HPN01.DWG Plotted on 5-May-2023 2:27 PM

HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

SEE SHEET 159

DRAINAGE DETAILS

SEE SHEET 138

LEGEND:

FULL DEPTH PAVEMENT RECONSTRUCTION

STAMPED CONCRETE

PEDESTRIAN CURB RAMP (PCR)

PROPOSED PEDESTRIAN CURB RAMP DETAIL # X#

PROPOSED DRIVEWAY DETAIL # DR#–#

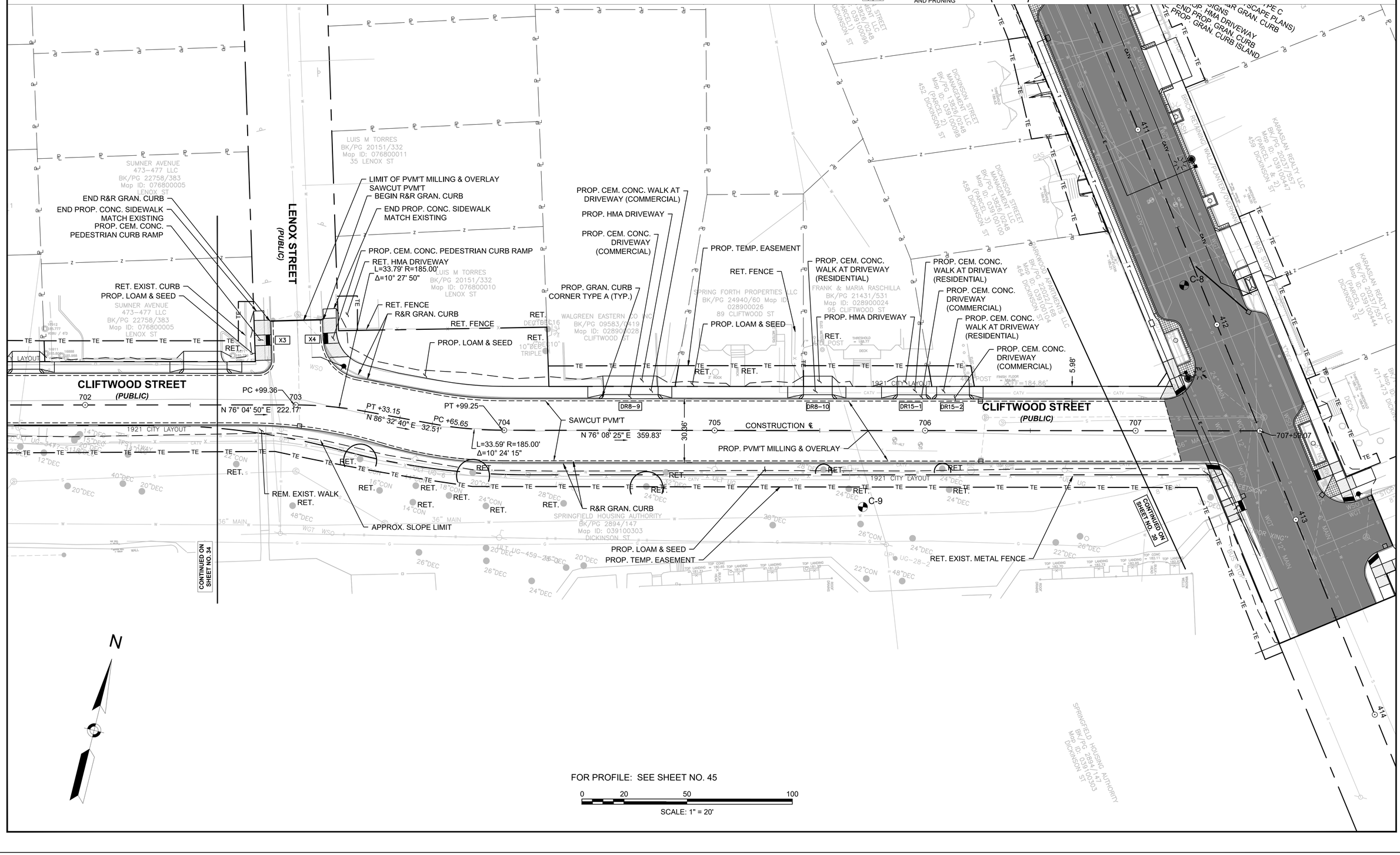
PROPOSED TREE PROTECTION - ARMORING AND PRUNING

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXX(XXX)X	33	358
PROJECT FILE NO.	608717		

CONSTRUCTION PLANS

20121457A70_HPN01.DWG Plotted on 5-May-2023 2:27 PM



HIGHWAY GUARD DETAILS	TRAFFIC SIGNAL CONDUIT	WATER SUPPLY ALTERATIONS	DRAINAGE DETAILS
NONE	NONE	SEE SHEET 160	SEE SHEET 139

LEGEND:

FULL DEPTH PAVEMENT RECONSTRUCTION

STAMPED CONCRETE

PEDESTRIAN CURB RAMP (PCR)

PROPOSED PEDESTRIAN CURB RAMP DETAIL # X#

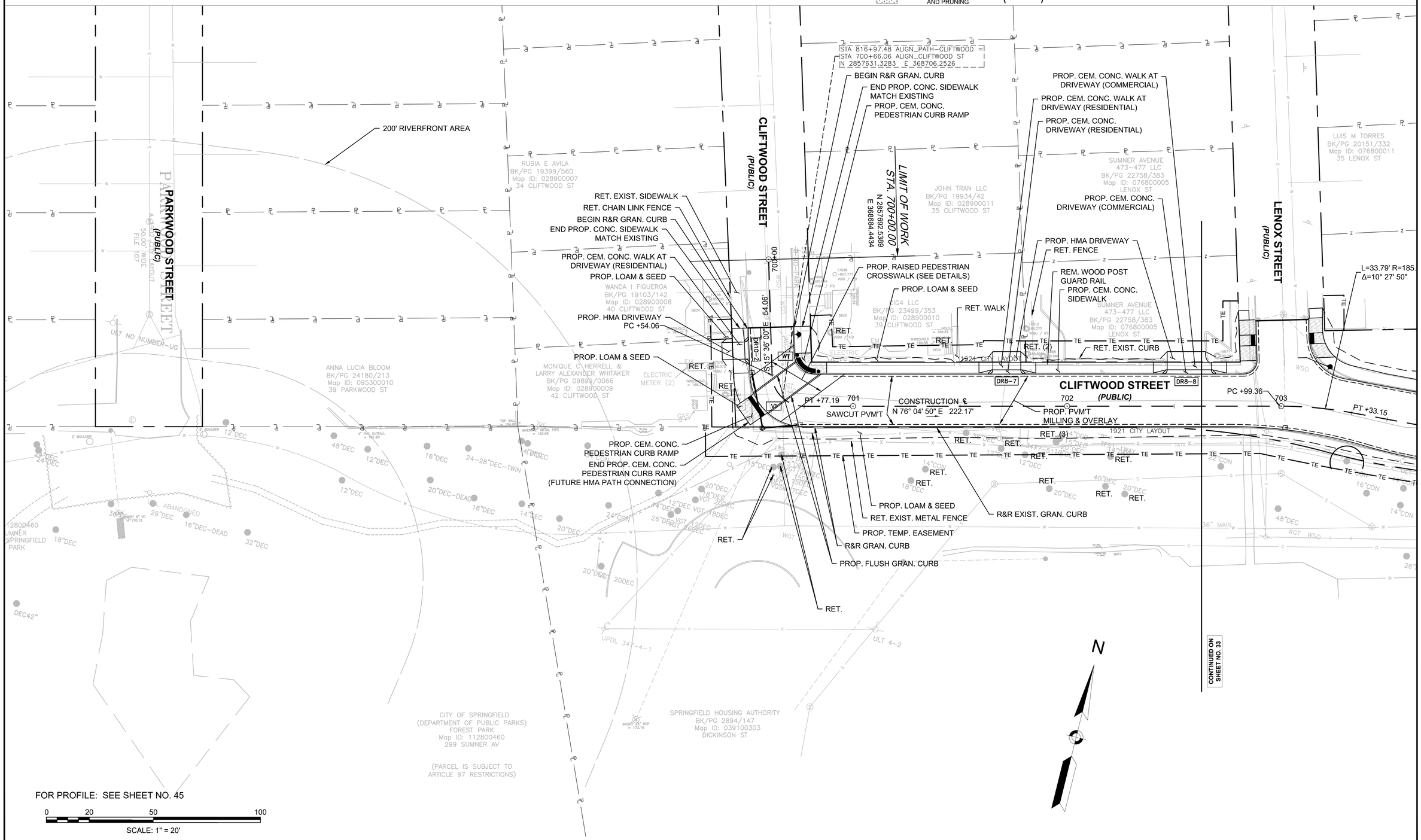
PROPOSED DRIVEWAY DETAIL # DR#-#

PROPOSED TREE PROTECTION - ARMORING AND PRUNING

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	34	358
PROJECT FILE NO.	608717		

CONSTRUCTION PLANS



FOR PROFILE: SEE SHEET NO. 45

0 20 50 100

SCALE: 1" = 20'

20121457A70_HPN01.DWG Plotted on 5-May-2023 2:27 PM

FOR CONSTRUCTION PLANS:
SEE SHEET NOS. 17-34

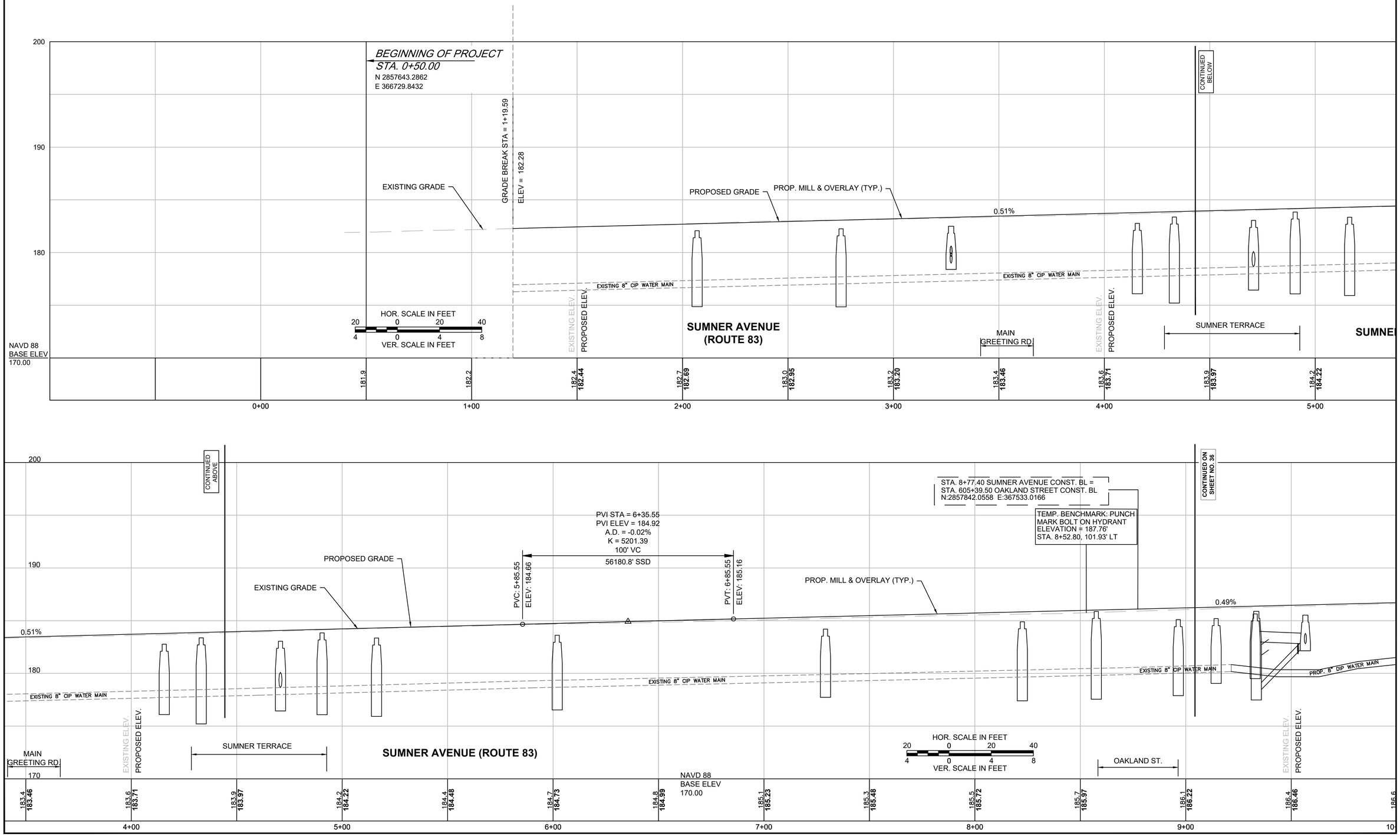
NOTE: THE SUMNER AVE TYPICAL PAVEMENT SECTION CALLS FOR A 1" OVERALL INCREASE IN PROFILE ELEVATION.

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	35	358
	PROJECT FILE NO. 608717		

SUMNER AVENUE PROFILE

20121457A70_PRO01.DWG Plotted on 5-May-2023 2:29 PM



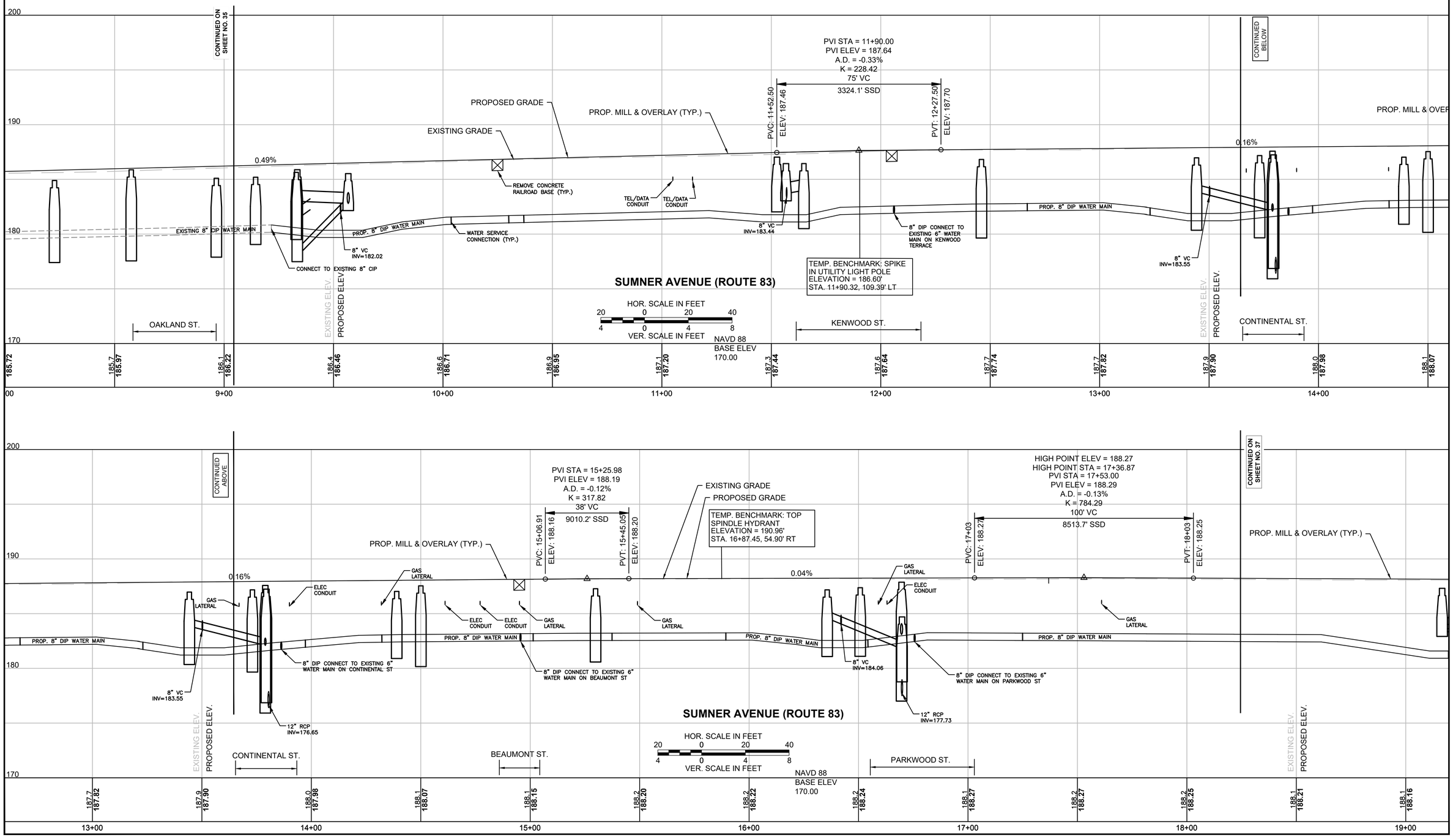
FOR CONSTRUCTION PLANS:
SEE SHEET NOS. 17-34

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	36	358
	PROJECT FILE NO. 608717		

SUMNER AVENUE PROFILE

20121457A70_PRO01.DWG Plotted on 5-May-2023 2:29 PM



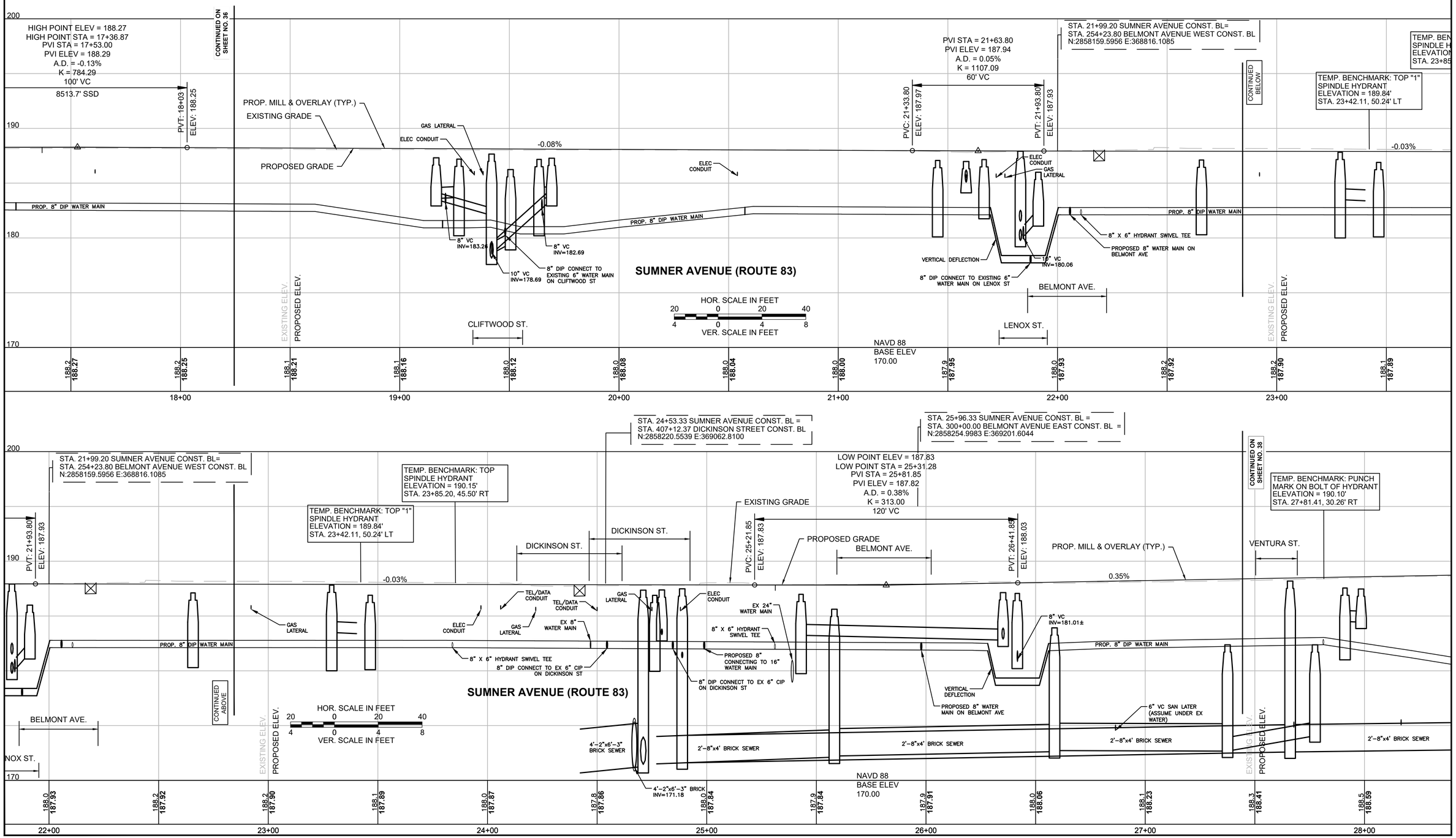
FOR CONSTRUCTION PLANS:
SEE SHEET NOS. 17-34

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXX(XXX)X	37	358
	PROJECT FILE NO. 608717		

SUMNER AVENUE PROFILE

Plotted on 5-May-2023 2:29 PM
20121457A70_PRO01.DWG



FOR CONSTRUCTION PLANS:
SEE SHEET NOS. 17-34

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	38	358
	PROJECT FILE NO. 608717		

SUMNER AVENUE PROFILE

20121457A70_PRO01.DWG Plotted on 5-May-2023 2:30 PM

AVENUE CONST. BL =
T AVENUE EAST CONST. BL =
.6044

CONTINUED ON SHEET NO. 37

TEMP. BENCHMARK: PUNCH MARK ON BOLT OF HYDRANT
ELEVATION = 190.10'
STA. 27+81.41, 30.26' RT

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

STA. 32+36.51 SUMNER AVENUE CONST. BL =
STA. 500+00.00 ORMOND STREET CONST. BL =
N:2858408.6926 E:369823.0576

PVI STA = 32+50.00
PVI ELEV = 190.18
A.D. = -0.03%
K = 3851.05
100' VC
41608.6' SSD

PVC: 32+00
ELEV: 190.00
CONTINUED BELOW

PVT: 33+00

ELEV: 188.03

PROP. MILL & OVERLAY (TYP.)
0.35%
VENTURA ST.
PROPOSED GRADE
EXISTING GRADE
PROP. MILL & OVERLAY (TYP.)
0.35%
SORRENTO ST.
ORMOND ST.

PROP. 8" DIP WATER MAIN
8" VC
INV=182.87±
8" X 6" HYDRANT SWIVEL TEE
PROP. 8" DIP WATER MAIN
8" VC
INV=183.91±
8" X 6" HYDRANT SWIVEL TEE
PROP. 8" DIP WATER MAIN
VERTICAL DEFLECTION
10" VC
INV=183.02±

SUMNER AVENUE
(ROUTE 83)

6" VC SAN LATER (ASSUME UNDER EX WATER)
2'-8"x4' BRICK SEWER

EXISTING ELEV.
PROPOSED ELEV.

TEMP. BENCHMARK: TOP SPINDLE HYDRANT
ELEVATION = 192.84'
STA. 32+80.68, 29.63' RT

NAVD 88
BASE ELEV
170.00

188.0 / 188.06	188.1 / 188.23	188.3 / 188.41	188.5 / 188.59	188.7 / 188.76	188.8 / 188.94	189.0 / 189.12	189.2 / 189.29	189.4 / 189.47	189.5 / 189.65	189.7 / 189.82	189.9 / 190.00	190.1 / 190.17	190.3
27+00			28+00		29+00		30+00		31+00		32+00		33

STA. 32+36.51 SUMNER AVENUE CONST. BL =
STA. 500+00.00 ORMOND STREET CONST. BL =
N:2858408.6926 E:369823.0576

PVI STA = 32+50.00
PVI ELEV = 190.18
A.D. = -0.03%
K = 3851.05
100' VC
41608.6' SSD

PVC: 32+00
ELEV: 190.00
CONTINUED ABOVE

ORMOND ST.

PVT: 33+00
ELEV: 190.34

POMONA ST.

PROP. MILL & OVERLAY (TYP.)
PROPOSED GRADE
0.33%
GRADE BREAK STA = 34+72.62
ELEV = 190.90
EXISTING GRADE

END OF PROJECT
STA. 35+44.11
N 2858482.6860
E 370121.6284

PROPOSED 12" WATER MAIN
8" VC
INV=183.72±
PROP. 8" DIP WATER MAIN
PROP. 8" DIP WATER MAIN
8" VC
INV=184.45±
CONNECT TO EXISTING 8" CIP
EXISTING 8" DIP WATER MAIN
VERTICAL DEFLECTION
10" VC
INV=183.02±
VERTICAL DEFLECTION
PROP. 8" DIP WATER MAIN

6" VC SAN LATER (ASSUME UNDER EX WATER)
2'-8"x4' BRICK SEWER

EXISTING ELEV.
PROPOSED ELEV.

TEMP. BENCHMARK: TOP "1"
SPINDLE HYDRANT
ELEVATION = 192.84'
STA. 32+80.68, 29.63' RT

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

NAVD 88
BASE ELEV
170.00

SUMNER AVENUE
(ROUTE 83)

200
190
180
170

189.65	189.7 / 189.82	189.9 / 190.00	190.1 / 190.17	190.3 / 190.34	190.5 / 190.50	190.6 / 190.67	190.8 / 190.83	191.0	191.1
-00	32+00		33+00		34+00		35+00		36+00

FOR CONSTRUCTION PLANS:
SEE SHEET NOS. 17-34

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	39	358
PROJECT FILE NO.	608717		

PROFILE - DICKINSON STREET

GRADE BREAK STA = 401+00.00
ELEV = 188.11
STA. 208+20.91 BELMONT-BURLINGTON CONST. BL =
STA. 401+58.89 DICKINSON STREET CONST. BL
N:2858656.7026 E:368722.1439

LIMIT OF WORK
STA. 400+80.47
N 2858716.8242
E 368671.8197

EXISTING GRADE
PROPOSED GRADE
-0.19%

PVI STA = 402+50.55
PVI ELEV = 187.82
A.D. = -0.41%
K = 122.46
50' VC
2668.1' SSD
PVC: 402+25.55 ELEV: 187.87
PVT: 402+75.55 ELEV: 187.68

-0.60%

LOW POINT ELEV = 187.26
LOW POINT STA = 403+67.56
PVI STA = 403+50.00
PVI ELEV = 187.23
A.D. = 0.73%
K = 76.25
56' VC
PVC: 403+22.19 ELEV: 187.40
PVT: 403+77.81 ELEV: 187.27

0.13%

HIGH POINT ELEV = 187.37
HIGH POINT STA = 404+59.25
PVI STA = 404+75.00
PVI ELEV = 187.40
A.D. = -0.57%
K = 103.85
59' VC
1915.8' SSD
PVC: 404+45.29 ELEV: 187.36
PVT: 405+04.71 ELEV: 187.27

MARK ON BOLT
ELEVATION = 18
STA. 405+36.48,

CONNECT TO EXISTING 6" CIP
EXISTING 6" CIP WATER MAIN
12" RCP INV=182.33
ELECTRIC CONDUIT
GAS
10" VC INV=181.74
VERTICAL DEFLECTION
12" VC INV=179.78
VERTICAL DEFLECTION
PROP. FULL DEPTH PVM'T
EXISTING 15" RCP STORM SEWER
WATER SERVICE CONNECTION (TYP.)
PROP. 6" DIP WATER MAIN
VERTICAL DEFLECTION
10" VC INV=181.82

TEMP. BENCHMARK: PUNCH MARK ON BOLT OF HYDRANT
ELEVATION = 190.28'
STA. 401+37.52, 36.29 LT

DICKINSON STREET

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

GRANADA TERR.
BURLINGTON ST.
EXISTING 4'-2"x6'-3" BRICK SEWER

6" VC SAN LATER (ASSUME UNDER EX WATER)

CONTINUED BELOW

EXISTING 4'-2"x6'-3" BRICK SEWER

NAVD 88
BASE ELEV
167.00

EXISTING ELEV.
PROPOSED ELEV.

188.1 / 188.11	188.0 / 188.01	187.9 / 187.92	187.8 / 187.80	187.7 / 187.53	187.6 / 187.28	187.2 / 187.30	187.4 / 187.37	187.3 / 187.29

400+00 401+00 402+00 403+00 404+00 405+00

NT ELEV = 187.26
T STA = 403+67.56
TA = 403+50.00
LEV = 187.23
D. = 0.73%
K = 76.25
56' VC
PVT: 403+77.81 ELEV: 187.27

CONTINUED ABOVE

HIGH POINT ELEV = 187.37
HIGH POINT STA = 404+59.25
PVI STA = 404+75.00
PVI ELEV = 187.40
A.D. = -0.57%
K = 103.85
59' VC
1915.8' SSD
PVC: 404+45.29 ELEV: 187.36
PVT: 405+04.71 ELEV: 187.27

MARK ON BOLT OF HYDRANT
ELEVATION = 189.12'
STA. 405+36.48, 22.28 LT

LOW POINT ELEV = 186.88
LOW POINT STA = 406+00.44
PVI STA = 406+07.50
PVI ELEV = 186.82
A.D. = 1.29%
K = 34.38
44' VC
PVC: 405+85.39 ELEV: 186.92
PVT: 406+29.61 ELEV: 187.01

SUMNER AVE.
SUMNER AVE.
REMOVE CONCRETE RAILROAD BASE (TYP.)
GRADE BREAK STA = 406+79.10
ELEV = 187.43
STA. 24+53.33 SUMNER AVENUE CONST. BL =
STA. 407+12.37 DICKINSON STREET CONST. BL
N:2858220.5539 E:369062.8100
SEE SUMNER AVE PROFILE AND CROSS SECTIONS

CONTINUED ON SHEET NO. 40

PVI STA = 409+25.00
PVI ELEV = 186.00
A.D. = 0.06%
K = 870.13
50' VC
PVC: 409+00 ELEV: 186.83
PVT: 409+50 ELEV: 185.83

EXISTING GRADE
PROPOSED GRADE
PROP. FULL DEPTH PVM'T
0.13%
-0.44%
0.85%
1.51%
-1.63%
-0.74%

GAS
VERTICAL DEFLECTION
PROP. 6" DIP WATER MAIN
10" VC INV=181.82
EXISTING 15" RCP STORM SEWER
10" VC INV=181.10
VERTICAL DEFLECTION
ELECTRIC CONDUIT
TEL/DATA CONDUIT
8" X 6" TEE CONNECTING TO SUMNER AVE
10" VC SAN
12" RCP INV=182.48
8" VC INV=181.11
6" VC SAN LATER (ASSUME UNDER EX WATER)
EXISTING 4'-2"x6'-3" BRICK SEWER

NAVD 88
BASE ELEV
167.00

DICKINSON STREET

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

EXISTING ELEV.
PROPOSED ELEV.

187.6 / 187.28	187.2 / 187.30	187.4 / 187.37	187.3 / 187.29	187.3 / 187.07	187.2 / 186.88	187.1 / 187.18	187.6 / 187.74	187.1 / 187.31	186.8 / 186.92	186.4 / 186.55	186.1 / 186.18	185.8 / 185.83	185.4 / 185.49

404+00 405+00 406+00 407+00 408+00 409+00 410+

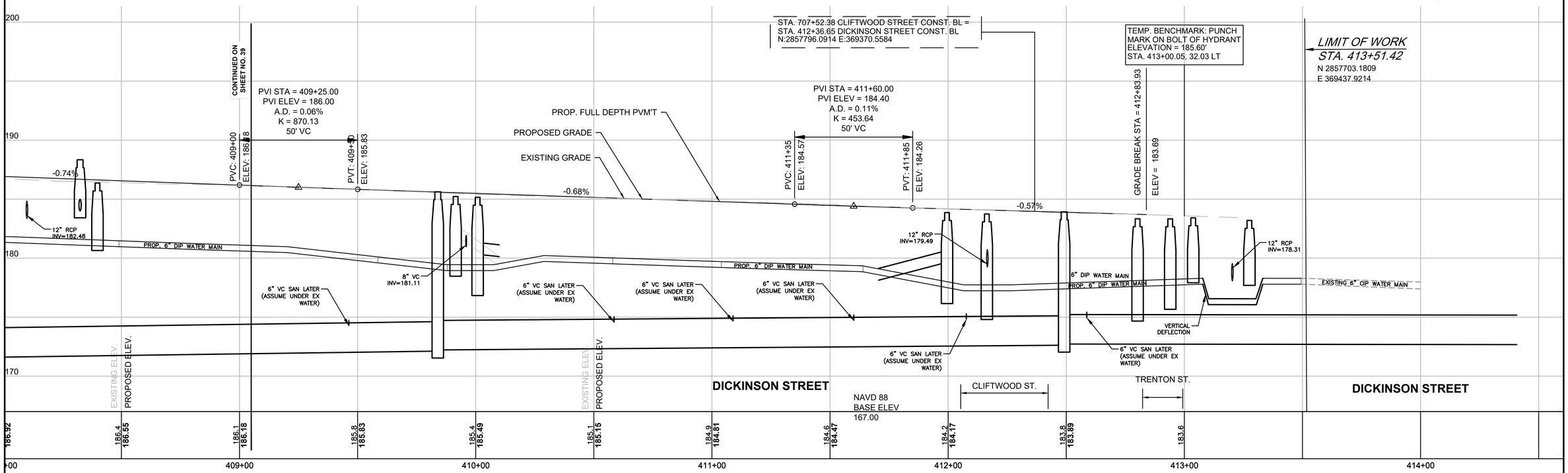
Plotted on 5-May-2023 2:30 PM
20121457A70_PRO01.DWG

FOR CONSTRUCTION PLANS:
SEE SHEET NOS. 17-34

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	40	358
PROJECT FILE NO.	608717		

PROFILE - DICKINSON STREET



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

Plotted on 5-May-2023 2:30 PM
20121457A70_PRO01.DWG

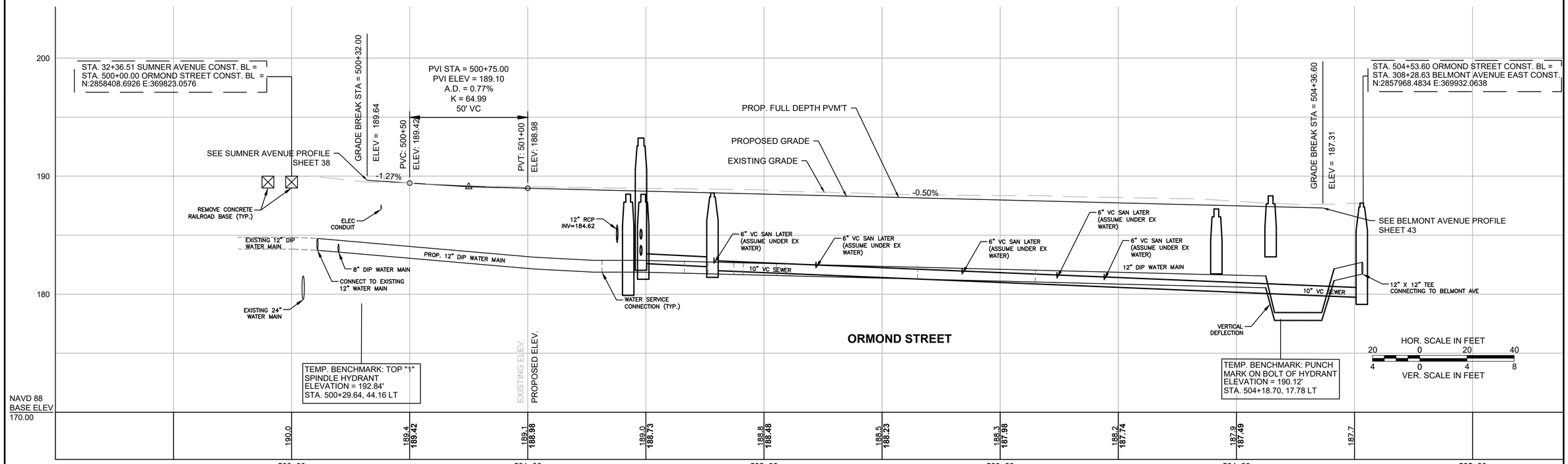
FOR CONSTRUCTION PLANS:
SEE SHEET NOS. 17-34

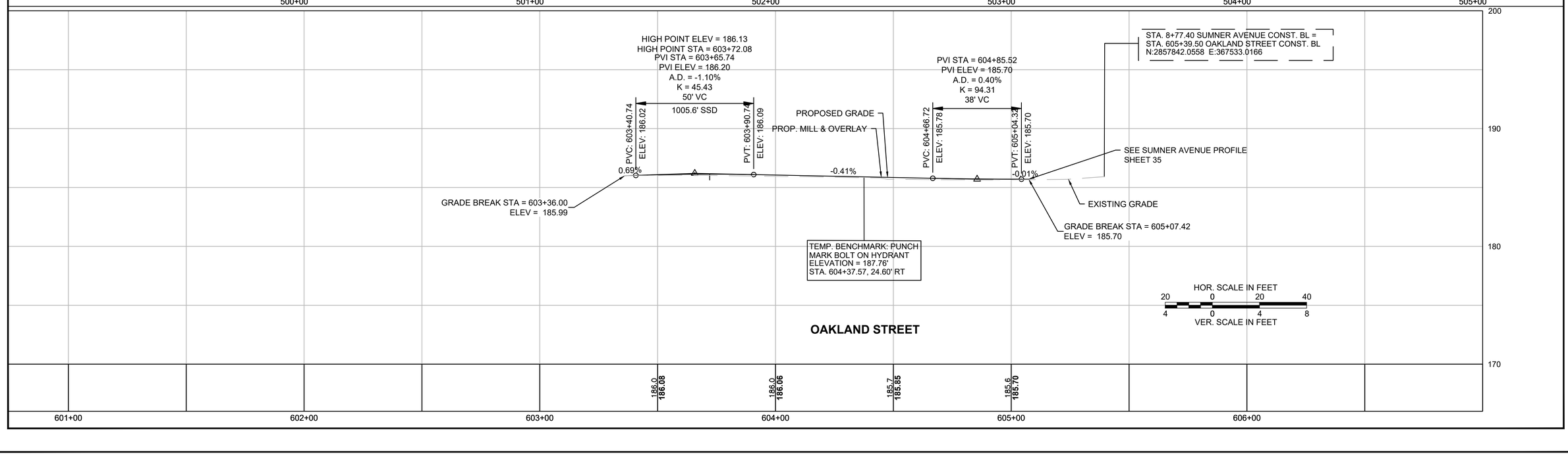
SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	41	358
	PROJECT FILE NO. 608717		

ORMOND ST. & OAKLAND ST. PROFILES

20121457A70_PRO01.DWG Plotted on 5-May-2023 2:30 PM



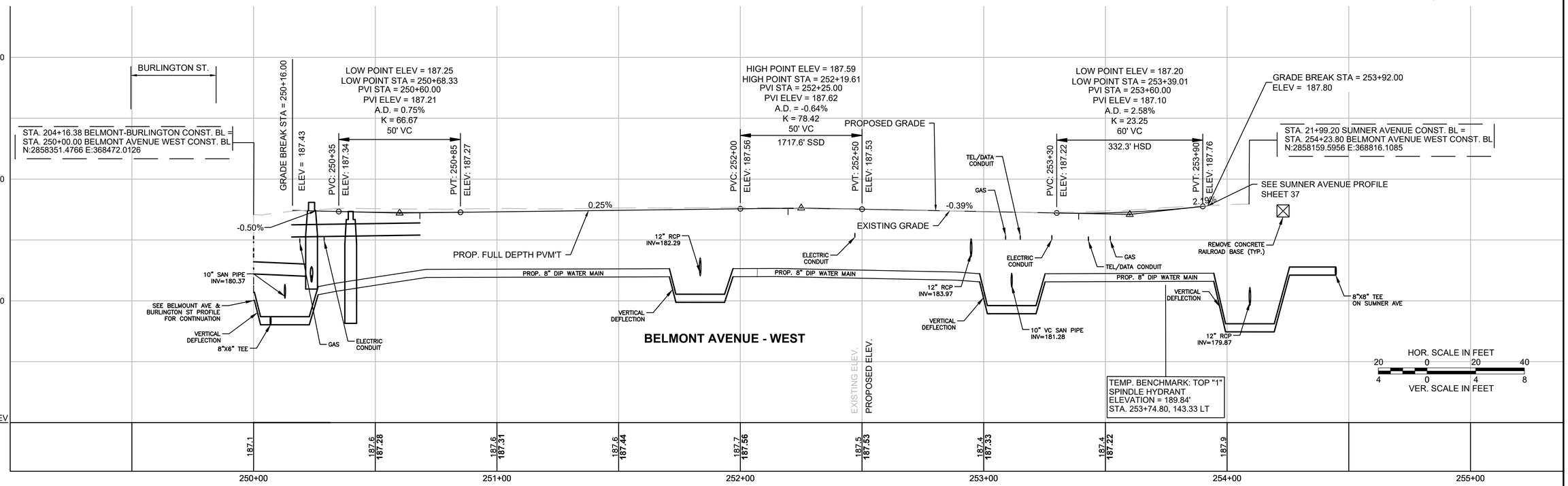


FOR CONSTRUCTION PLANS:
SEE SHEET NOS. 17-34

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	42	358
PROJECT FILE NO.	608717		

BELMONT AVENUE PROFILE



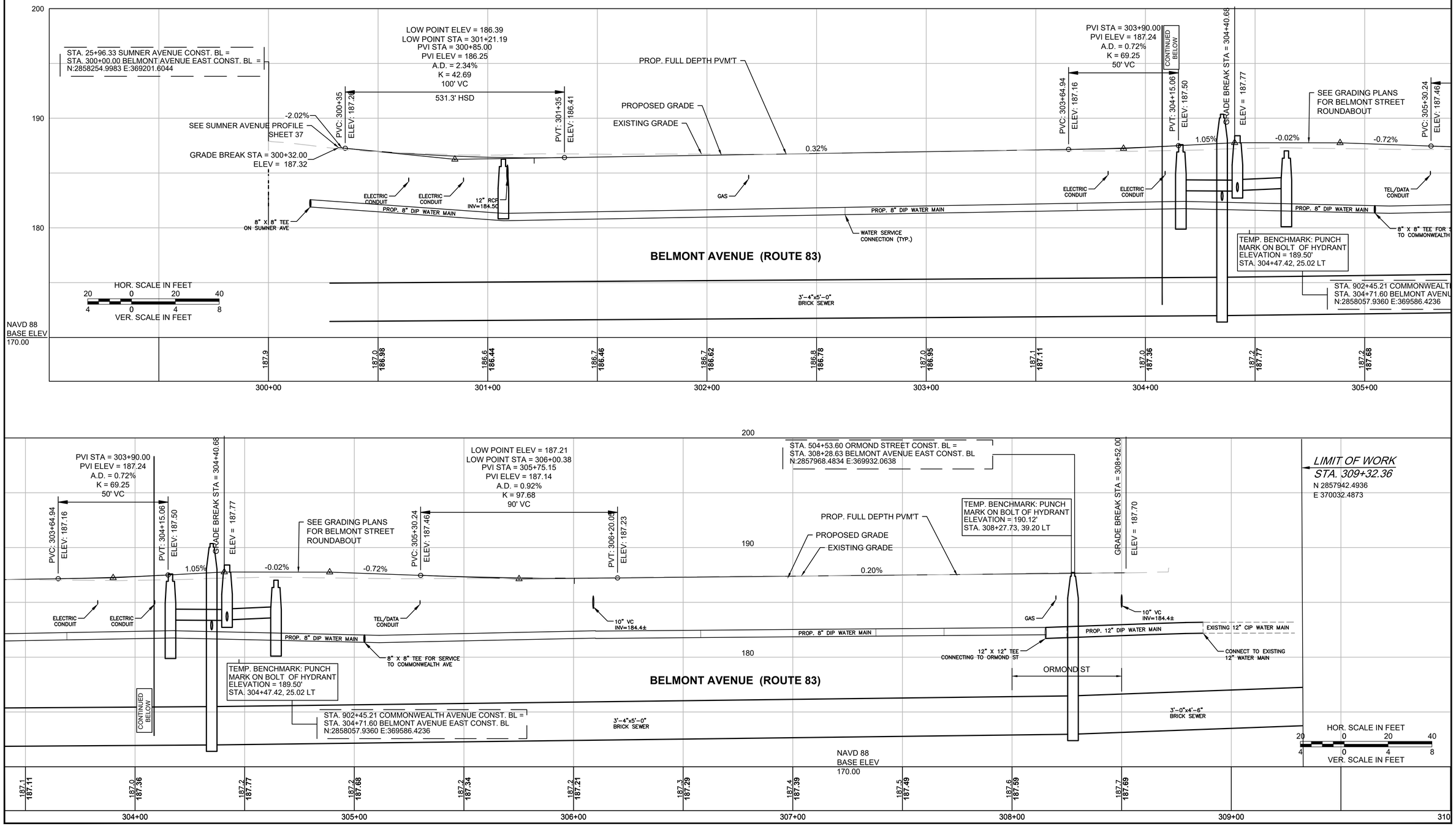
20121457A70_PRO01.DWG Plotted on 5-May-2023 2:30 PM

FOR CONSTRUCTION PLANS:
SEE SHEET NOS. 17-34

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	43	358
PROJECT FILE NO.	608717		

BELMONT AVENUE PROFILE



20121457A70_PRO01.DWG Plotted on 5-May-2023 2:30 PM

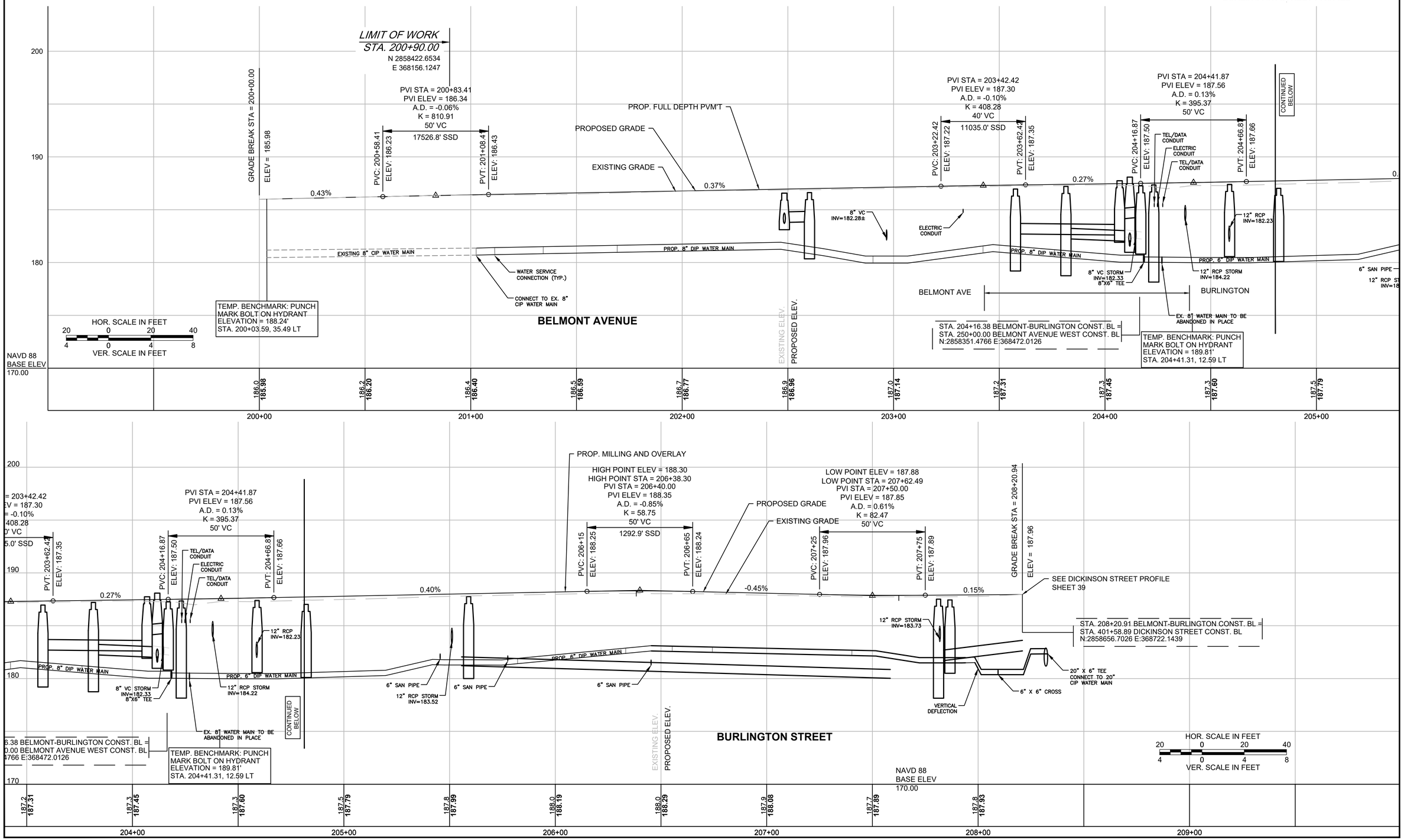
FOR CONSTRUCTION PLANS:
SEE SHEET NOS. 17-34

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	44	358
PROJECT FILE NO.	608717		

BURLINGTON STREET PROFILE

Plotted on 5-May-2023 2:30 PM
20121457A70_PRO01.DWG



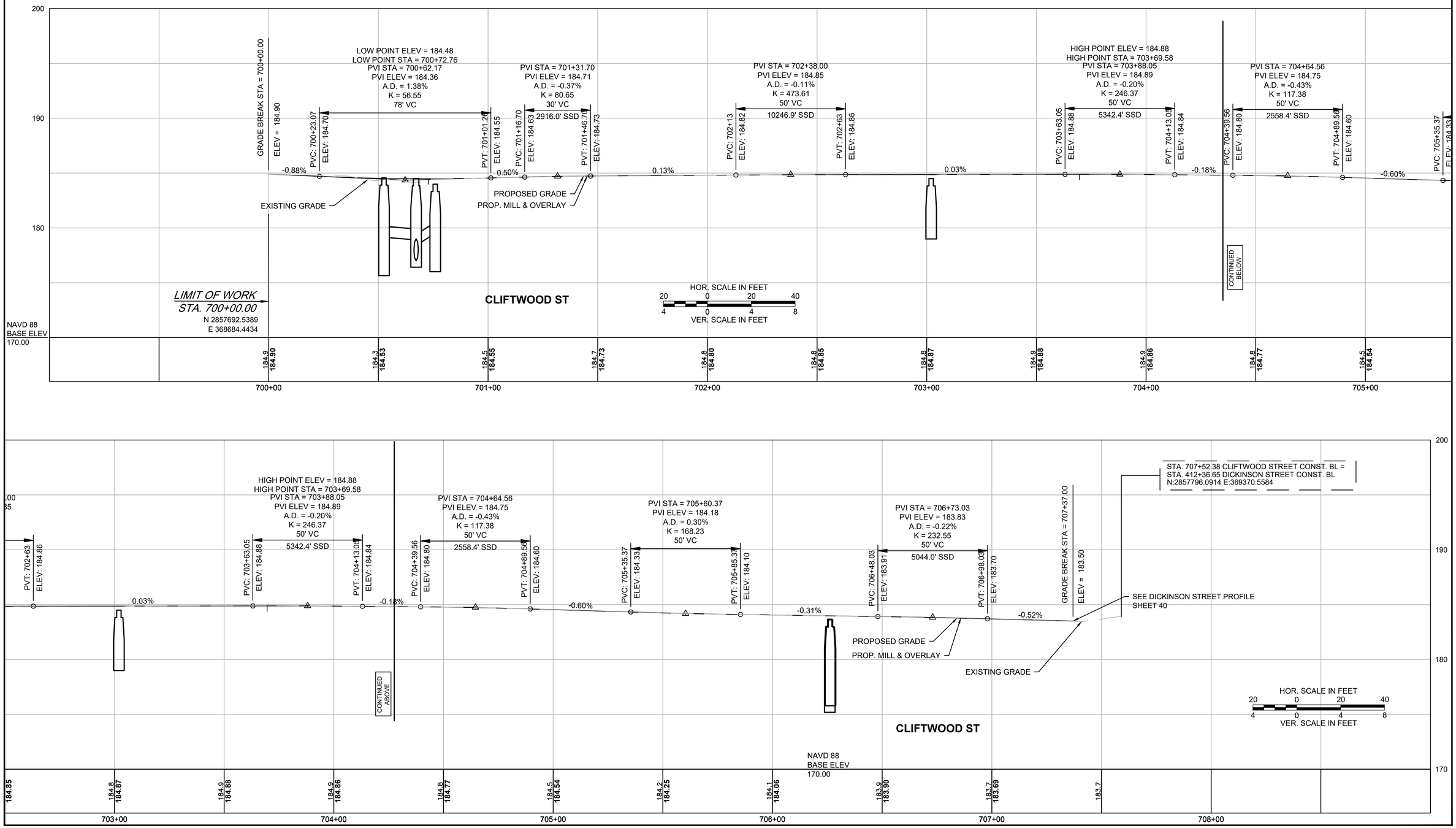
FOR CONSTRUCTION PLANS:
SEE SHEET NOS. 17-34

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	45	358
PROJECT FILE NO.	608717		

CLIFTWOOD STREET PROFILE

Plotted on 5-May-2023 2:31 PM
20121457A70_PRO01.DWG

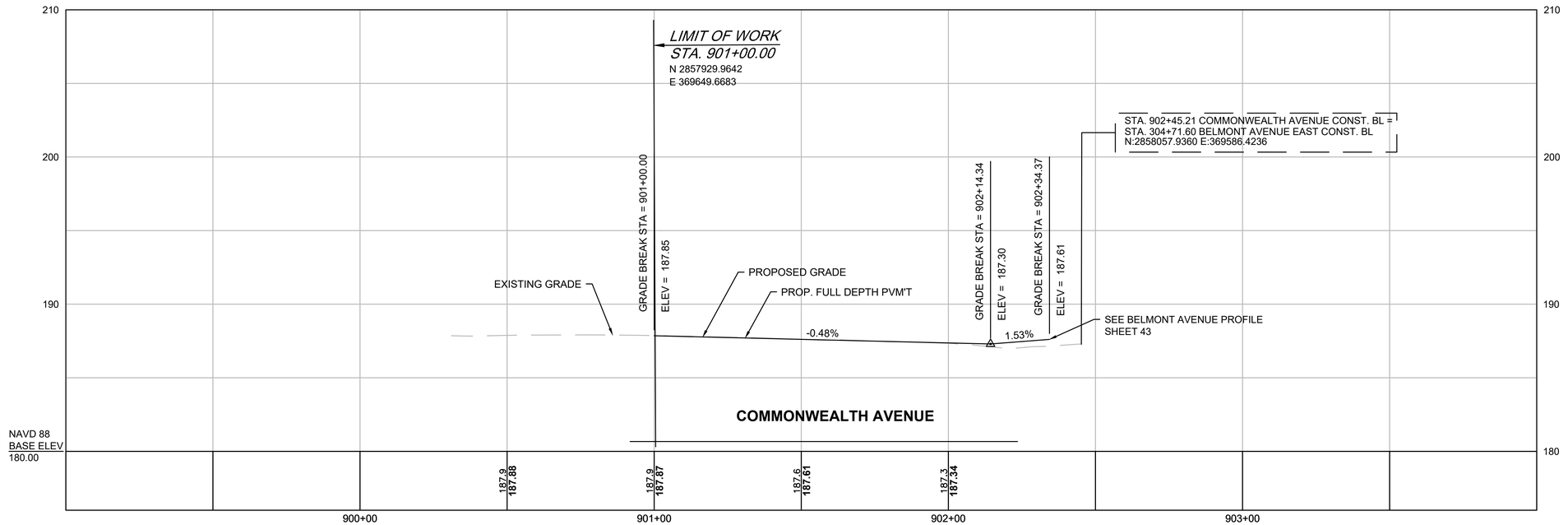


FOR CONSTRUCTION PLANS:
SEE SHEET NOS. 17-34

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	46	358
	PROJECT FILE NO. 608717		

COMMONWEALTH AVENUE PROFILE



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

20121457A70_PRO01.DWG Plotted on 5-May-2023 2:31 PM

THIS PLAN IS BASED ON FIELD SURVEY CONDUCTED BY:
HERITAGE SURVEY, INC.
FIELD DATA WAS COLLECTED BETWEEN MAY 2017 & JULY 2017

HORIZONTAL CONTROL IS BASED ON VALUES PROVIDED BY MEANS OF GLOBAL POSITION SYSTEM METHODS, AND IS BASED ON THE NORTH AMERICAN DATUM OF 1983 (NAD-1093) MASSACHUSETTS STATE PLANE COORDINATE SYSTEM MAINLAND ZONE.

VERTICAL CONTROL IS BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988, (NAVD-1988).

CURVE TABLE

CURVE NO.	LENGTH	RADIUS	DELTA	TANGENT
C100	7.85	10.00	44°57'38.48"	4.14
C101	4.71	2.00	134°58'05.35"	4.82
C102	6.92	2.25	176°10'52.73"	67.49
C104	26.50	30.00	50°36'25.33"	14.18
C105	7.87	5.00	90°10'02.21"	5.01
C106	12.57	4.00	180°00'00.00"	INFINITY
C107	7.85	5.00	90°00'00.00"	5.00
C108	6.28	2.00	180°00'00.00"	INFINITY
C109	6.28	2.00	180°00'00.00"	INFINITY
C110	38.04	30.00	72°38'48.49"	22.06
C111	31.73	20.00	90°53'33.16"	20.31
C112	31.33	20.00	89°45'17.62"	19.91

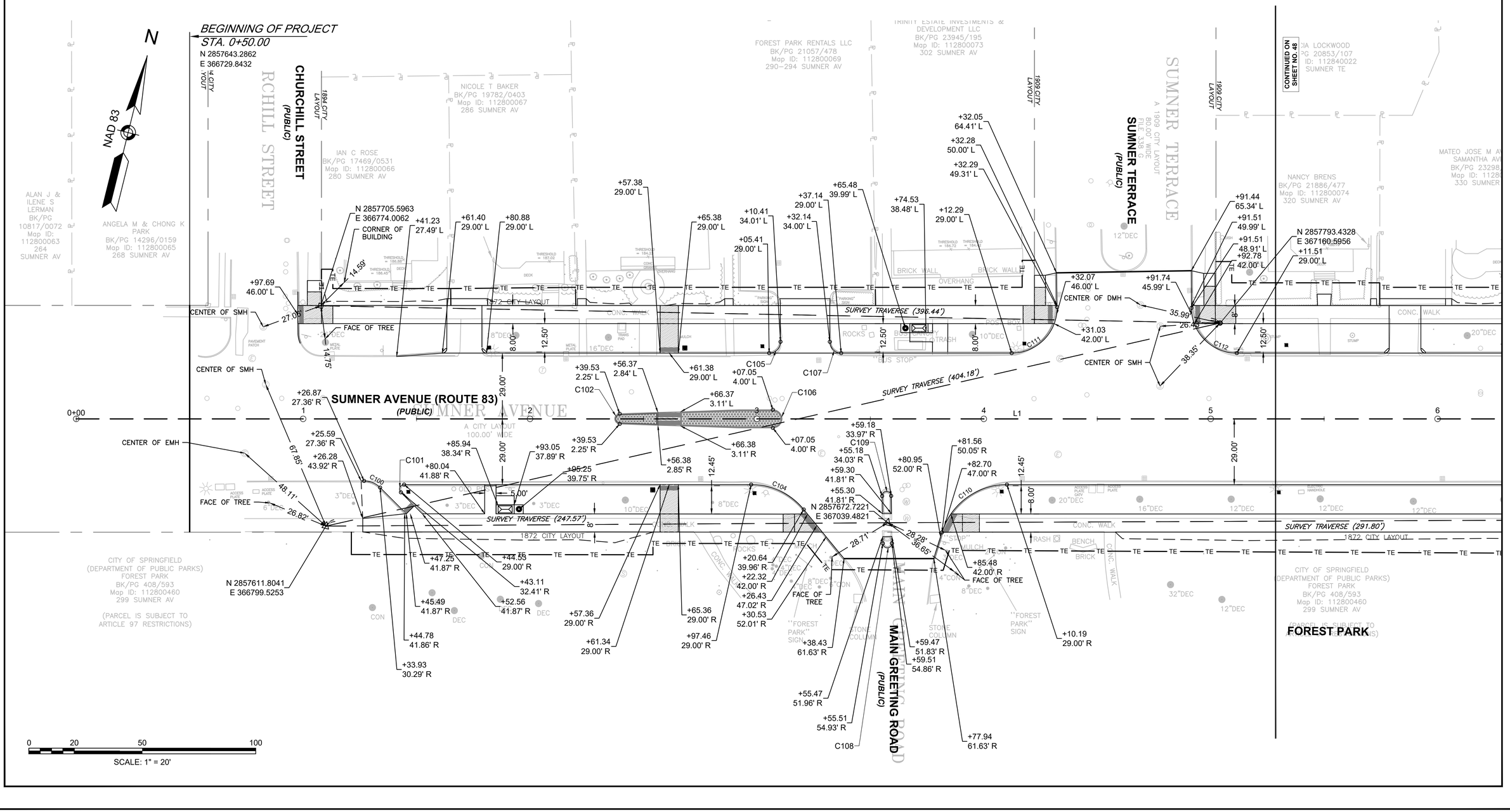
ALIGN_SUMNER CONSTRUCTION BASELINE DATA

NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L1	0+00.00	2857631.275	366681.307		N76°05'59"E 3550.00'	35+50.00	2858484.101	370127.347

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXX(XXX)X	47	358
PROJECT FILE NO.	608717		

CURB & BASELINE TIE PLANS



20121457A70_ALN01.DWG Plotted on 5-May-2023 4:15 PM

CURVE TABLE				
CURVE NO.	LENGTH	RADIUS	DELTA	TANGENT
C113	18.85	12.00	90°00'00.00"	12.00
C114	18.85	12.00	89°59'24.86"	12.00
C115	47.12	30.00	90°00'00.00"	30.00
C116	27.98	30.00	53°26'21.05"	15.10
C117	7.85	5.00	90°00'00.00"	5.00
C118	7.27	5.00	83°20'18.14"	4.45
C119	12.57	4.00	180°00'00.00"	INFINITY
C120	12.57	4.00	180°00'00.00"	INFINITY
C121	5.57	5.50	57°59'40.62"	3.05
C122	4.55	4.50	57°59'40.61"	2.49
C301	14.27	60.00	13°37'35.26"	7.17

ALIGN_SUMNER CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L1	0+00.00	2857631.275	366681.307		N76°05'59"E 3550.00'	35+50.00	2858484.101	370127.347

ALIGN_OAKLAND CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L16	600+00.00	2858365.753	367403.412		S13°54'01"E 539.50'	605+39.50	2857842.056	367533.017

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	48	358
PROJECT FILE NO.	608717		

CURB & BASELINE TIE PLANS

20121457A70_ALN01.DWG Plotted on 5-May-2023 4:15 PM

N

NAD 83

BENCHMARK: PUNCH MARK BOLT ON HYDRANT EL=187.76

153
N: 2857982.910'
E: 367461.569'
EL: 185.739'
SPIKE-SET-CWALK

SUMNER TERRACE
(PUBLIC)
A 1909 CITY LAYOUT
80.00' WIDE
FILE 338 G

OAKLAND STREET
(PUBLIC)
A 1986 CITY ALTERATION
FOR 68.00' WIDTH
PLAN BOOK 25, PAGE 75

SUMNER AVENUE (ROUTE 83)
(PUBLIC)

STA 8+77.40 ALIGN_SUMNER =
STA 605+39.50 ALIGN_OAKLAND
N 2857842.0558 E 367533.0166

SUMNER AVENUE
100.00' WIDE

ALICIA LOCKWOOD
BK/PG 20853/107
Map ID: 112840022
11 SUMNER TE

NANCY BRENS
BK/PG 21886/477
Map ID: 112800074
320 SUMNER AV

MATEO JOSE M AVILES &
SAMANTHA AVILES
BK/PG 23298/461
Map ID: 112800075
330 SUMNER AV

CITY OF SPRINGFIELD
(SCHOOL DEPARTMENT)
FOREST PARK MIDDLE SCHOOL
BK/PG 19628/567
Map ID: 055200029
46 OAKLAND STREET

CALVARY'S LOVE CHURCH
BK/PG 17100/404
Map ID: 092100161
17-19 OAKLAND ST

RTA E GONZALEZ
BK/PG 10597/0073
Map ID: 112800082
325 SUMNER AV

BHANU & JANUKA N TIWARI
BK/PG 23802/227
Map ID: 112800083
372 SUMNER AV

CITY OF SPRINGFIELD
(DEPARTMENT OF PUBLIC PARKS)
FOREST PARK
BK/PG 408/593
Map ID: 112800460
299 SUMNER AV

(PARCEL IS SUBJECT TO ARTICLE 97 RESTRICTIONS)

FOREST PARK

TRINITY METHODIST EPISCOPAL CHURCH
BK/PG 19000/5
Map ID: 112804434
301 SUMNER AV

CONTINUED ON SHEET NO. 47

CONTINUED ON SHEET NO. 62

CONTINUED ON SHEET NO. 49

SURVEY TRAVERSE (291.80')
SURVEY TRAVERSE (216.00')
SURVEY TRAVERSE (141.90')
SURVEY TRAVERSE (293.59')

1909 CITY LAYOUT
1872 CITY LAYOUT
1986 CITY LAYOUT

+52.26 29.00' L
+64.27 41.97' L
+64.26 41.00' L
+76.64 29.00' L
+94.64 29.00' L
+85.93 41.96' L
+85.93 41.00' L
+97.93 29.00' L
+32.99 40.00' L
+42.00 38.40' L
+56.40 59.00' L
+54.98 49.86' L
+39.77 32.14' L
+26.40 29.00' L
+23.43 29.00' L
+68.60 28.99' L
+81.49 28.99' L
+97.40 56.03' L
+98.01 49.99' L
+99.79 42.00' L
+23.93 29.00' L
+29.43 29.00' L
+36.37 4.00' L
+70.60 4.00' L
+36.37 4.00' R
+70.60 4.00' R
+48.64 29.00' R
+24.41 41.95' R
+38.63 29.00' R
+24.53 49.95' R
+26.26 57.91' R
+51.45 41.95' R
+51.45 49.95' R
+29.42 29.00' R
+26.77 29.00' R
+23.42 30.28' R
+21.80 33.42' R
+20.80 42.00' R
+20.80 49.95' R
+20.80 54.98' R
+01.48 34.00' R
+01.48 42.00' R
+96.48 29.00' R
+01.49 55.00' R
+71.32 37.00' R
+67.51 34.89' R
+65.44 31.59' R
+60.78 29.00' R

N 2857743.9548
E 367322.4546
N 2857644.4917
E 367423.6547
TOP OF HYDRANT
N 2857791.8703
E 367533.0720

FACE OF TREE
CENTER OF TRAFFIC SIGNAL POST
CORNER OF TRANSFORMER PAD

20.68'
20.57'
25.71'
33.65'
33.39'
22.26'
18.50'
17.00'
17.70'

0 20 50 100
SCALE: 1" = 20'

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	49	358
PROJECT FILE NO.	608717		

CURB & BASELINE TIE PLANS

ALIGN_SUMNER CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L1	0+00.00	2857631.275	366681.307		N76°05'59"E 3550.00'	35+50.00	2858484.101	370127.347

CURVE TABLE				
CURVE NO.	LENGTH	RADIUS	DELTA	TANGENT
C123	12.57	4.00	180°00'00.00"	INFINITY
C124	4.55	4.50	57°59'19.15"	2.49
C125	5.57	5.57	57°14'00.91"	3.04
C126	39.34	25.00	90°09'02.66"	25.07
C127	39.40	25.00	90°17'32.78"	25.13
C128	12.57	4.00	180°00'00.00"	INFINITY
C129	12.57	4.00	180°00'00.00"	INFINITY
C130	12.57	4.00	180°00'00.00"	INFINITY
C131	15.67	10.00	89°48'01.21"	9.97
C132	15.69	10.00	89°54'44.32"	9.98

N

NAD 83

BENCHMARK: SPIKE IN UTILITY LIGHT POLE EL=188.60

KENWOOD TERRACE (PUBLIC)

KENWOOD TERRACE
A 1909 CITY LAYOUT
50.00' WIDE
FILE 338 H

SUMNER AVENUE (ROUTE 83) (PUBLIC)

SUMNER AVENUE
100.00' WIDE

SUMNER AVENUE
A CITY LAYOUT
100.00' WIDE

BEAUMONT STREET (PUBLIC)
A 1909 CITY LAYOUT
50.00' WIDE
FILE 338 H

CONTINUED ON SHEET NO. 50

CONTINUED ON SHEET NO. 48

CONTINENTAL STREET (PUBLIC)
A 1907 CITY LAYOUT
50.00' WIDE
FILE 225

SURVEY TRAVERSE (293.59')

SURVEY TRAVERSE (341.48')

SURVEY TRAVERSE (477.97')

CENTER OF SMH

FACE OF TREE

N 2857867.1682
E 367816.8453

CALVARY'S LOVE CHURCH
BK/PG 17100/404
Map ID: 092100161
17-19 OAKLAND ST

ERIK G. SCOTT
BK/PG 23890/595
Map ID: 072520003
16 KENWOOD TER

MARTA E GONZALEZ
BK/PG 10597/0073
Map ID: 112800082
366 SUMNER AV

BHANU & JANUKA N TIWARI
BK/PG 23802/227
Map ID: 112800083
SUMNER AV

KERUBE FAKHAN
BK/PG 22078/0525
Map ID: 112800084
376-378 SUMNER AV

ANDREW W VINCENZO
BK/PG 12951/0044
Map ID: 112800085
390 SUMNER AV

DAO VU
BK/PG 15728/0310
Map ID: 112800086
398 SUMNER AV

ROSEMARY PEREZ
BK/PG 15061/0330
Map ID: 112800087
402 SUMNER AV

TOWER REALTY PARKER ST LLC
BK/PG 23062/120
Map ID: 112800088
408 SUMNER AV

GREGORY A. & EVA ROUGELLIS
BK/PG 05885/202
Map ID: 011450005
16 BEAUMONT ST

TRINITY METHODIST EPISCOPAL CHURCH
BK/PG 19030/5
Map ID: 112800434
361 SUMNER AV

JOSE L ESTEVEZ
BK/PG 16331/0161
Map ID: 112800425
415 SUMNER AV

FUJIONG L. DO
BK/PG 15[illegible]443
Map ID: [illegible]017
11 CONTINENTAL ST

+19.90 65.21' L
+19.84 54.11' L
+20.16 50.00' L
+21.15 46.00' L
+22.89 42.00' L
+44.84 28.98' L
+96.61 28.99' L
+14.27 28.99' L
+88.30 28.99' L
+04.29 29.00' L
+53.35 36.70' L
+50.35 34.02' L
+35.28 28.97' L
+60.28 54.04' L
+59.92 50.00' L
+58.97 46.00' L
+60.25 65.05' L
+86.96 28.97' L
+70.36 28.98' L
+57.22 42.00' L
+29.77 4.00' L
+29.77 4.00' R
+58.27 40.49' R
+66.76 38.39' R
+55.65 29.03' R
+52.15 29.03' R
+59.14 29.03' R
+44.33 4.00' L
+44.33 4.00' R
+20.54 4.00' L
+20.54 4.00' R
+45.63 4.00' L
+45.63 4.00' R
+51.24 37.04' R
+55.06 34.93' R
+57.12 31.63' R
+61.78 29.02' R
+54.66 29.00' R
+64.66 38.97' R
+64.67 42.00' R
+64.68 46.00' R
+64.70 50.00' R
+64.72 55.79' R
+04.57 29.00' R
+94.57 38.98' R
+94.56 42.00' R
+94.56 46.00' R
+94.55 50.00' R
+94.59 56.27' R

0 20 50 100

SCALE: 1" = 20'

20121457A70_ALN01.DWG Plotted on 5-May-2023 4:16 PM

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	50	358
	PROJECT FILE NO. 608717		

CURB & BASELINE TIE PLANS

CURVE TABLE

CURVE NO.	LENGTH	RADIUS	DELTA	TANGENT
C133	33.56	22.00	87°23'41.10"	21.02
C134	33.66	21.93	87°56'25.57"	21.16
C135	12.57	4.00	180°00'00.00"	INFINITY
C136	12.57	4.00	180°00'00.00"	INFINITY
C137	12.57	4.00	180°00'00.00"	INFINITY
C139	15.68	10.00	89°50'29.38"	9.97
C140	23.24	15.00	88°46'51.65"	14.68
C141	2.11	1.00	120°59'47.84"	1.77
C142	2.61	1.00	149°44'13.25"	3.70
C143	2.61	1.00	149°42'14.58"	3.69
C144	7.92	15.00	30°15'46.75"	4.06

ALIGN_SUMNER CONSTRUCTION BASELINE DATA

NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L1	0+00.00	2857631.275	366681.307		N76°05'59"E 3550.00'	35+50.00	2858484.101	370127.347

N

NAD 83

BEAUMONT STREET (PUBLIC)

A 1909 CITY LAYOUT 50.00' WIDE FILE 338 H

SURVEY TRAVERSE (477.97')

SURVEY TRAVERSE (341.48')

SURVEY TRAVERSE (237.57')

SUMNER AVENUE

A CITY LAYOUT 100.00' WIDE

SUMNER AVENUE (ROUTE 83) (PUBLIC)

CONTINENTAL STREET

A 1907 CITY LAYOUT 50.00' WIDE FILE 225

CONTINENTAL STREET (PUBLIC)

PARKWOOD STREET

A 1902 CITY LAYOUT 50.00' WIDE FILE 107

PARKWOOD STREET (PUBLIC)

CLIFTWOOD STREET

A 1904 CITY LAYOUT VARIABLE WIDTH

CLIFTWOOD STREET (PUBLIC)

CONTINUED ON SHEET NO. 49

CONTINUED ON SHEET NO. 51

BENCHMARK: TOP SPINDLE HYDRANT EL=190.96

N 2858006.6064
E 368378.8568

N 2857949.1517
E 368148.3398

0 20 50 100

SCALE: 1" = 20'

20121457A70_ALN01.DWG Plotted on 5-May-2023 4:16 PM

ALIGN_DICKINSON CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
C10	406+10.40	2858302.580	369002.256	R= 1000.00' Δ= 2°23'57" L=41.87' T=20.94'		406+52.28	2858269.204	369027.537
L14	406+52.28	2858269.204	369027.537		S35°56'36"E 788.43'	414+40.71	2857630.892	369490.333

ALIGN_SUMNER CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L1	0+00.00	2857631.275	366681.307		N76°05'59"E 3550.00'	35+50.00	2858484.101	370127.347

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXX(XXX)X	51	358
	PROJECT FILE NO. 608717		

CURB & BASELINE TIE PLANS

20121457A70_ALN01.DWG Plotted on 5-May-2023 4:16 PM

N

NAD 83

BELMONT AVENUE (PUBLIC) F252

DICKINSON STREET (PUBLIC)

SUMNER AVENUE (ROUTE 83) (PUBLIC)

CLIFTWOOD STREET (PUBLIC)

LENOX STREET (PUBLIC)

CONTINUED ON SHEET NO. 50

CONTINUED ON SHEET NO. 52

CONTINUED ON SHEET NO. 56

BENCHMARK: TOP "I" SPINDLE HYDRANT EL=189.84

BENCHMARK: TOP SPINDLE HYDRANT EL=190.15

STA 21+99.20 ALIGN_SUMNER =
STA 254+23.80 ALIGN_BELMONT_WEST
N 2858159.5956 E 368816.1085

SURVEY TRAVERSE (260.93')

SURVEY TRAVERSE (487.68')

TOP OF HYRDRANT N 2858116.0687 E 368847.9164

FACE OF TREE

TOP OF HYDRANT

SCALE: 1" = 20'

CURVE TABLE				
CURVE NO.	LENGTH	RADIUS	DELTA	TANGENT
C145	18.41	12.01	87°48'47.34"	11.56
C146	19.28	12.00	92°03'19.79"	12.44
C147	8.02	5.01	91°45'16.57"	5.17
C148	15.71	10.00	90°00'00.00"	10.00
C149	12.71	4.00	181°58'36.25"	231.93
C150	5.06	5.00	57°59'40.62"	2.77
C151	5.06	5.00	57°59'40.62"	2.77
C152	12.57	4.00	180°00'00.00"	INFINITY
C153	12.57	4.00	180°00'00.00"	INFINITY
C155	5.06	5.00	57°59'40.62"	2.77
C156	5.06	5.00	57°59'40.62"	2.77
C157	18.46	12.00	88°08'39.47"	11.62

CURVE TABLE				
CURVE NO.	LENGTH	RADIUS	DELTA	TANGENT
C159	18.33	12.00	87°30'29.14"	11.49
C160	26.41	35.00	43°13'59.65"	13.87
C161	21.01	35.00	34°24'02.89"	10.83
C162	77.80	55.00	81°02'53.07"	47.01
C163	5.06	5.00	57°59'40.62"	2.77
C164	5.06	5.00	57°59'11.03"	2.77
C165	12.57	4.00	179°59'57.65"	702888.87
C216	3.93	1.50	149°58'53.64"	5.59
C217	7.86	5.00	90°01'06.36"	5.00
C296	37.40	35.00	61°13'42.32"	20.71
C297	45.96	50.00	52°39'42.02"	24.75

ALIGN_SUMNER CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L1	0+00.00	2857631.275	366681.307		N76°05'59"E 3550.00'	35+50.00	2858484.101	370127.347

CURVE TABLE

CURVE NO.	LENGTH	RADIUS	DELTA	TANGENT
C166	12.57	4.00	180°00'00.00"	INFINITY
C167	5.06	5.00	57°59'40.62"	2.77
C168	5.09	5.00	58°18'37.05"	2.79
C169	25.44	13.00	112°07'57.51"	19.32
C170	41.51	35.00	67°57'25.27"	23.59
C171	59.30	50.00	67°57'25.27"	33.70
C172	19.53	10.00	111°54'55.35"	14.80
C173	5.06	5.00	57°59'32.07"	2.77
C174	5.06	5.00	57°59'07.40"	2.77
C175	59.33	50.00	67°59'04.65"	33.72
C176	31.33	50.00	35°54'19.13"	16.20

CURVE TABLE

CURVE NO.	LENGTH	RADIUS	DELTA	TANGENT
C177	15.71	10.00	90°00'00.00"	10.00
C178	12.57	4.00	180°00'00.00"	INFINITY
C179	12.57	4.00	180°00'00.00"	INFINITY
C180	5.06	5.00	57°59'40.62"	2.77
C181	5.06	5.00	57°59'40.62"	2.77
C182	23.36	15.00	89°14'28.46"	14.80
C183	29.00	20.05	82°51'34.34"	17.69
C219	46.42	50.00	53°11'56.57"	25.04
C220	82.89	120.00	39°34'32.88"	43.17
C221	53.75	50.00	61°35'23.22"	29.80

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXX(XXX)X	52	358
PROJECT FILE NO.	608717		

CURB & BASELINE TIE PLANS

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SPRINGFIELD
THE 'X' INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXX(XXX)X	53	358
	PROJECT FILE NO. 608717		

CURB & BASELINE TIE PLANS

CURVE TABLE				
CURVE NO.	LENGTH	RADIUS	DELTA	TANGENT
C184	15.72	10.00	90°02'39.84"	10.01
C185	15.71	10.00	90°00'00.73"	10.00
C186	15.71	10.00	90°00'00.00"	10.00
C187	15.71	10.00	90°00'00.00"	10.00
C188	31.65	20.00	90°39'57.32"	20.24
C189	31.41	20.00	89°58'20.31"	19.99
C190	5.06	5.00	58°02'26.75"	2.77
C191	5.06	5.00	57°59'40.63"	2.77

ALIGN_SUMNER CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L1	0+00.00	2857631.275	366681.307		N76°05'59"E 3550.00'	35+50.00	2858484.101	370127.347

N

NAD 83

CONTINUED ON SHEET NO. 52

CONTINUED ON SHEET NO. 54

VENTURA STREET (PUBLIC)
A 1902 CITY LAYOUT
60.00' WIDE
FILE 28

SORRENTO STREET (PUBLIC)
A 1906 CITY LAYOUT
60.00' WIDE
FILE 340-1

ORMOND STREET (PUBLIC)
A CITY LAYOUT
60.00' WIDE
FILE 188

SUMNER AVENUE (PUBLIC)
A CITY LAYOUT
100.00' WIDE

TRAN LONG K & TUYETNHUNG HO
BK/PG 22084/491
Map ID: 118350021
73 VENTURA ST

SLF REALTY CORP
BK/PG 22981/560
Map ID: 109650013
76 SORRENTO ST

SONAL PATEL LLC
BK/PG 20954/93
Map ID: 112800108
570 SUMNER AV

HUU AND MINH LLC
BK/PG 18676/120
Map ID: 112800105
556 SUMNER AV

TGN ASSOCIATES LLC
BK/PG 22503/22
Map ID: 112800111
590 SUMNER AV

K S KANTOR LLC
BK/PG 13892/0227
Map ID: 112800112
(PARCEL 1)
598-600 SUMNER AV

K S KANTOR LLC
BK/PG 13892/0227
Map ID: 112800113
(PARCEL 2)
606 SUMNER AV

149
N: 2858469.197'
E: 369608.380'
EL: 189.708'
/ MAG-IN-BIRM

148
N: 2858422.478'
E: 369690.500'
EL: 189.588'
/ MAG-SET-CWLK

147
N: 2858486.241'
E: 369926.117'
EL: 190.188'
/ MAG-SET

+39.55 28.38' L
+75.16 27.19' L
+51.17 27.99' L
+80.86 27.00' L
+98.11 27.00' L
+44.62 27.00' L
+63.79 42.06' L
+78.83 40.00' L
+06.39 27.00' L
+60.71 63.47' L
+60.64 50.00' L
+60.63 47.00' L
+60.40 44.00' L
+40.39 27.00' L

+22.88 57.00' L
+30.89 57.00' L
+33.15 56.46' L
+36.96 54.54' L
+90.48 63.47' L
+90.49 50.00' L
+90.49 46.98' L
+90.49 46.99' L
+90.72 44.00' L
+60.63 46.89' L
+10.49 27.00' L

+37.17 28.46' R
+80.86 27.00' R
+05.37 27.00' R
+15.37 37.00' R
+38.87 37.00' R
+48.87 27.00' R
+07.72 27.00' R
+17.72 37.00' R
+47.72 37.00' R
+57.72 27.00' R
+93.10 27.00' R
+97.34 29.35' R
+99.40 32.65' R
+03.64 35.00' R

SURVEY TRAVERSE (348.61')
SURVEY TRAVERSE (253.94')
SURVEY TRAVERSE (179.97')

BENCHMARK: PUNCH MARK ON BOLT OF HYDRANT EL=189.50

BENCHMARK: TOP "1" SPINDLE HYDRANT EL=192.84

STA 902+45.21 ALIGN_COMMONWEALTH =
STA 304+71.60 ALIGN_BELMONT EAST
N 2858057.9360 E 369586.4236

SCALE: 1" = 20'

SPRINGFIELD INSTITUTION FOR SAVINGS BK/PG 1984/221 Map ID: 112800405 561 SUMNER AV

SPRINGFIELD INSTITUTION FOR SAVINGS BK/PG 2445/395 Map ID: 112800407 SUMNER AV

RICHARD P CROWLEY & JOHN BONAVITA & CAROL SLATE TRUSTEES BK/PG 17485/0163 Map ID: 012350250 (PARCEL 1) 589 BELMONT AV

MASSACHUSETTS CVS PHARMACY LLC BK/PG 17112/99 Map ID: 112800404 SUMNER AV

SPRINGFIELD INSTITUTION FOR SAVINGS BK/PG 1984/225 Map ID: 012350247 BELMONT AV

AGREE EASTERN, LLC BK/PG 24099/30 Map ID: 012350246 (PARCEL 2) BELMONT AV

AGREE EASTERN, LLC BK/PG 24099/30 Map ID: 012350242 (PARCEL 1) #615 BELMONT

ISLAND REALTY INC BK/PG 07990/0325 Map ID: 112800399 SUMNER AV

JAMES HENG BK/PG 24453/393 Map ID: 112800398 603 SUMNER AV

WILLIAM E JR & LYN CUNNINGHAM TRUSTEES BK/PG 20755/551 Map ID: 112800397 609 SUMNER AV

JAMES W FIORE BK/PG 19415/165 Map ID: 093700011 11 ORMOND ST

1872 CITY LAYOUT
1906 CITY LAYOUT

20121457A70_ALN01.DWG Plotted on 5-May-2023 4:17 PM

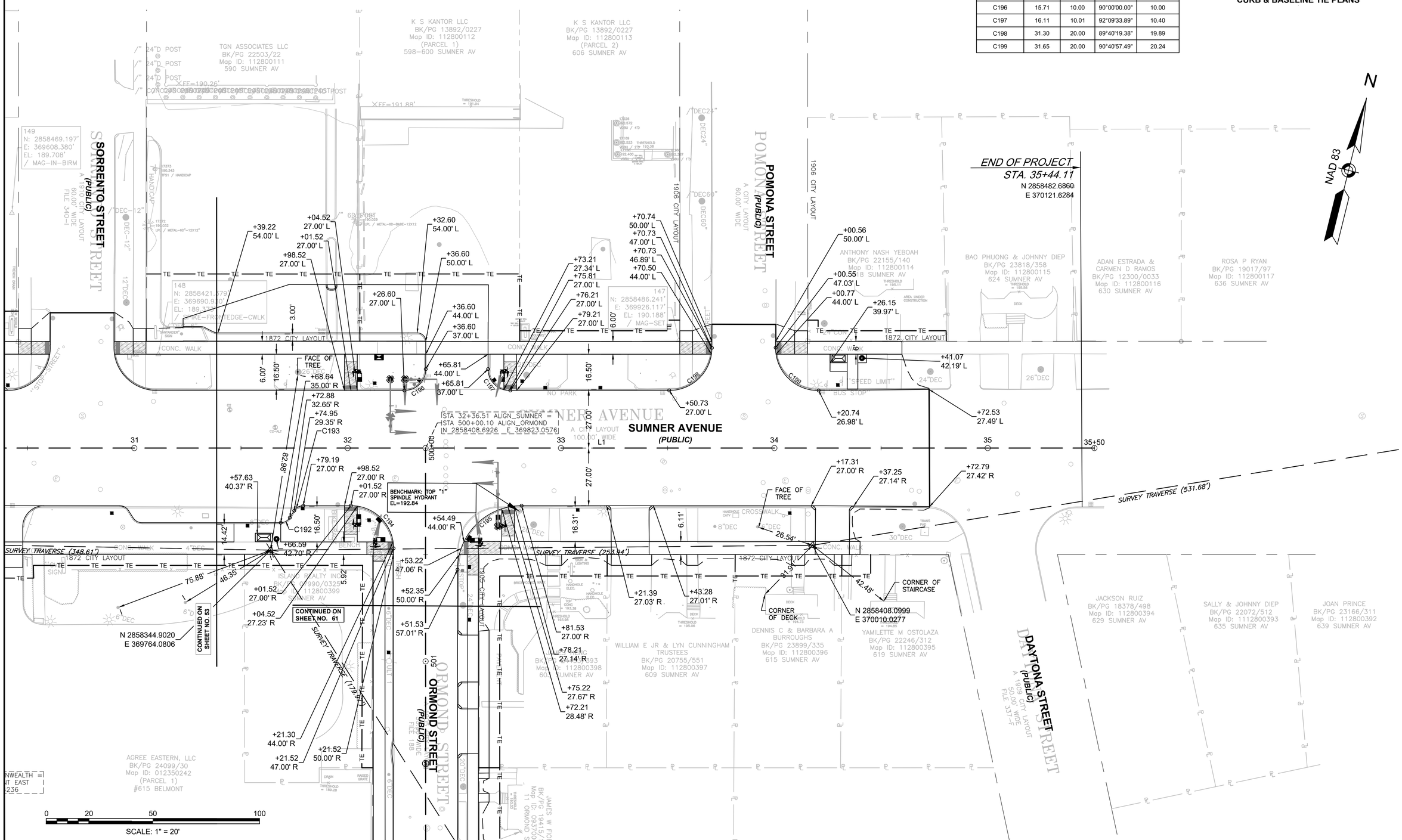
ALIGN_SUMNER CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L1	0+00.00	2857631.275	366681.307		N76°05'59"E 3550.00'	35+50.00	2858484.101	370127.347

CURVE TABLE				
CURVE NO.	LENGTH	RADIUS	DELTA	TANGENT
C192	5.06	5.00	57°59'40.62"	2.77
C193	5.06	5.00	57°59'40.62"	2.77
C194	31.42	20.00	89°59'59.98"	20.00
C195	47.13	30.00	90°01'07.87"	30.01
C196	15.71	10.00	90°00'00.00"	10.00
C197	16.11	10.01	92°09'33.89"	10.40
C198	31.30	20.00	89°40'19.38"	19.89
C199	31.65	20.00	90°40'57.49"	20.24

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	54	358
PROJECT FILE NO.	608717		

CURB & BASELINE TIE PLANS



20121457A70_ALN01.DWG Plotted on 5-May-2023 4:18 PM

SPRINGFIELD
THE 'X' INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	55	358
PROJECT FILE NO.	608717		

CURB & BASELINE TIE PLANS

20121457A70_ALN01.DWG Plotted on 5-May-2023 4:18 PM

ALIGN_BELMONT-BURLINGTON CONSTRUCTION BASELINE DATA

NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L2	200+00.00	2858445.203	368068.995		S75°29'24"E 388.91'	203+88.91	2858347.762	368445.500
C1	203+88.91	2858347.762	368445.500	R=35.00' Δ=89°56'27" L=54.94' T=34.96'		204+43.85	2858372.842	368488.144
L3	204+43.85	2858372.842	368488.144		N14°34'09"E 61.31'	205+05.16	2858432.176	368503.565
C2	205+05.16	2858432.176	368503.565	R=114.00' Δ=37°08'53" L=73.91' T=38.31'		205+79.07	2858492.985	368543.272
L4	205+79.07	2858492.985	368543.272		N51°43'03"E 241.87'	208+20.94	2858642.833	368733.131

ALIGN_BELMONT_WEST CONSTRUCTION BASELINE DATA

NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
C3	250+00.00	2858351.477	368472.013	R=50.00' Δ=38°45'23" L=33.82' T=17.59'		250+33.82	2858332.988	368499.564
L5	250+33.82	2858332.988	368499.564		S75°30'49"E 13.61'	250+47.43	2858329.582	368512.743
C4	250+47.43	2858329.582	368512.743	R=88.00' Δ=21°37'47" L=33.22' T=16.81'		250+80.65	2858315.469	368542.599
C5	250+80.65	2858315.469	368542.599	R=112.00' Δ=21°37'47" L=42.28' T=21.40'		251+22.94	2858297.506	368580.598

CURVE TABLE

CURVE NO.	LENGTH	RADIUS	DELTA	TANGENT
C200	8.40	5.00	96°17'01.36"	5.58
C201	36.49	25.00	83°38'02.29"	22.37
C202	5.24	5.00	60°00'00.00"	2.89
C203	5.46	5.00	62°31'11.41"	3.04
C204	26.80	53.00	28°58'37.19"	13.70
C205	20.35	9.99	116°46'03.93"	16.22

CURVE TABLE

CURVE NO.	LENGTH	RADIUS	DELTA	TANGENT
C206	15.71	10.00	90°00'00.00"	10.00
C207	33.29	83.18	22°55'54.86"	16.87
C208	23.88	117.50	11°38'40.53"	11.98
C209	32.91	25.00	75°24'54.53"	19.33
C210	23.59	99.77	13°32'45.40"	11.85
C211	25.36	100.00	14°31'51.58"	12.75

N

NAD 83

BEAUMONT STREET (PUBLIC) A 1901 CITY LAYOUT 50.00' WIDE FILE 62

LIMIT OF WORK
STA. 200+90.00
N 2858422.6534
E 368156.1247

BENCHMARK: PUNCH MARK BOLT OF HYDRANT EL=188.24

BENCHMARK: PUNCH MARK BOLT OF HYDRANT EL=189.81

N 2858419.9847
E 368066.0290

N 2858501.8161
E 368526.6887

N 2858330.1752
E 368418.3607

BELMONT AVENUE (PUBLIC)

BELMONT AVENUE (PUBLIC) A 1922 CITY LAYOUT 60.00' WIDE

BURLINGTON STREET (PUBLIC)

SURVEY TRAVERSE (363.60')

SURVEY TRAVERSE (226.76')

STA 204+16.38 ALIGN_BELMONT-BURLINGTON =
STA 250+00.00 ALIGN_BELMONT_WEST
N 2858351.4766 E 368472.0126

PC +88.91

PT +22.94

PC +05.16

PT +43.85

PT +79.07

PRC +80.65

CENTER OF SMH

FACE OF TREE

CORNER OF DECK

CORNER OF BUILDING

CENTER OF FLAG POLE

CORNER OF STAIRCASE

CONTINUED ON SHEET NO. 56

CONTINUED ON SHEET NO. 58

LIANG MIN & QING ZHANG BK/PG 21058/470 ID: 012350280 BELMONT AV

NGUYEN HUNG & PHONG PHAM BK/PG 21604/107 Map ID: 012350278 461 BELMONT AV

PADAM GAJMBER & SHOVA GAJMER & DAMBER BISWA & SUBASH LUHAGUN BK/PG 24882/192 Map ID: 012350276 463-465 BELMONT AV

CHARLES R LYONS BK/PG 06614/1 Map ID: 012350274 467-469 BELMONT AV

NALANI CAPITAL LLC BK/PG 24840/148 (PARCEL 6) Map ID: 012350272 BELMONT AV

NALANI CAPITAL LLC BK/PG 24840/148 (PARCEL 7) Map ID: 012350270 BELMONT AV

BELMONT BURLINGTON LLC BK/PG 22895/261 Map ID: 012350094 (PARCEL 1) 463 BELMONT AV

MARTHA ALVARDO BK/PG 16373/0237 Map ID: 012350092 450 BELMONT AV

SAGE HOME BUILDERS LLC BK/PG 22895/261 Map ID: 012350094 462 BELMONT AV

NALANI CAPITAL LLC BK/PG 24840/148 (PARCEL 4) Map ID: 012350095 BELMONT AV

NALANI CAPITAL LLC BK/PG 24840/148 (PARCEL 3) Map ID: 012350097 BELMONT AV

NALANI CAPITAL LLC BK/PG 24840/148 (PARCEL 2) Map ID: 012350099 BELMONT AV

NALANI CAPITAL LLC BK/PG 24840/148 (PARCEL 5) Map ID: 012350103 BELMONT AV

ISABEL LUCERO-MARTINEZ BK/PG 24598/578 Map ID: 012350265 501 BELMONT AV

509 BELMONT INC BK/PG 13096/0178 Map ID: 012350263 505 BELMONT AV

FREEDOM PROPERTY GROUP LLC BK/PG 20161/578 Map ID: 031900077 388 DICKINSON ST

ANTHONY L SANTANIELLO BK/PG 06324/0153 Map ID: 021000013 21 BURLINGTON ST

ANTHONY CALVANESE BK/PG 20980/0306 Map ID: 021000006 21 BURLINGTON ST

BELMONT BURLINGTON LLC BK/PG 22895/261 Map ID: 021000004 BURLINGTON ST

CUMBERLAND FARMS INC BK/PG 06101/04[illegible] Map ID: 112500[illegible] 470 SUMNER AV

0 20 50 100

SCALE: 1" = 20'

CURVE TABLE				
CURVE NO.	LENGTH	RADIUS	DELTA	TANGENT
C212	5.55	2.50	127°05'55.11"	5.03
C213	3.93	1.50	150°00'00.00"	5.60
C214	7.85	5.00	90°00'00.00"	5.00
C215	5.24	2.50	120°00'00.00"	4.33

ALIGN_BELMONT_WEST CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
C5	250+80.65	2858315.469	368542.599	R=112.00' Δ=21°37'47" L=42.28' T=21.40'		251+22.94	2858297.506	368580.598
L6	251+22.94	2858297.506	368580.598		S75°30'49"E 191.84'	253+14.78	2858249.516	368766.343
C6	253+14.78	2858249.516	368766.343	R=50.00' Δ=61°07'12" L=53.34' T=29.52'		253+68.12	2858213.535	368802.266
L7	253+68.12	2858213.535	368802.266		S14°23'37"E 55.69'	254+23.80	2858159.596	368816.109

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	56	358
	PROJECT FILE NO. 608717		

CURB & BASELINE TIE PLANS

20121457A70_ALN01.DWG Plotted on 5-May-2023 4:18 PM

BENCHMARK: PUNCH MARK BOLT OF HYDRANT EL=189.81

STA 204+16.38 ALIGN_BELMONT-BURLINGTON =
STA 250+00.00 ALIGN_BELMONT_WEST
N 2858351.4766 E 368472.0126

SURVEY TRAVERSE (202.97')

205 PC +05.16

PT +43.85

250+00

204

PC +88.91

PC +47.43

PT +33.82

PRC 180.65

251

C5

PT +22.94

252

L6

253

PC +14.78

PT +88.12

254

254+23.80

BELMONT AVENUE (PUBLIC)
A 22' CITY LAYOUT
100.00' WIDE

SUMNER AVENUE (ROUTE 83) (PUBLIC)

DICKINSON STREET (PUBLIC)
AN 1896 CITY LAYOUT
90.00' WIDE
BOOK 348 PAGE 601

LENOX STREET (PUBLIC)

SURVEY TRAVERSE (260.93')

SURVEY TRAVERSE (148.68')

BENCHMARK: TOP "1" SPINDLE HYDRANT EL=189.84

BENCHMARK: TOP SPINDLE HYDRANT EL=190.15

CONTINUED ON SHEET NO. 55

CONTINUED ON SHEET NO. 57

+37.25 29.50' L
+34.45 13.44' L
+37.25 14.19' L
+57.25 29.50' L
+57.25 17.00' L
+62.25 12.00' L
+63.70 12.00' L
+65.87 15.75' L
+15.96 37.00' L
+08.96 37.00' L
+73.25 36.00' L
+82.25 34.03' L
+95.32 32.24' L
+98.32 32.24' L
+01.32 32.24' L
+99.67 27.69' L
+09.06 12.00' L
+11.39 15.99' L
+25.17 29.50' L
+76.86 16.50' L
+67.62 29.50' L
+58.00 29.50' L
+55.50 29.50' L
+53.00 29.50' L
+62.83 6.00' R
+56.83 6.00' R
+56.83 11.50' R
+62.83 11.50' R
+10.81 5.54' R
+38.73 5.50' R
+91.50 6.00' R
+91.50 11.53' R
+85.50 5.97' R
+85.50 11.53' R
+65.73 5.50' R
+22.18 5.50' R
+26.98 6.00' R
+37.81 5.50' R
+32.98 6.00' R
+32.98 11.50' R
+26.98 11.50' R

BURLINGTON LLC 22243/6 012350270 (PARCEL 1) LMONT AV

ANTHONY L SR 06324 BK/PG 06324 Map ID: 021000 21 BURLINGTON

BRANDON PARRELLI BELMONT AVE REALTY TRUST 29643/33 Map ID: 012350267 497 BELMONT AV

ISABEL LUCERO-MARTINEZ BK/PG 24598/578 Map ID: 012350265 501 BELMONT AV

508 BELMONT INC BK/PG 24046/0178 Map ID: 012350264 505 BELMONT AV

VIEN & TRUONG NGUYEN BK/PG 19885/57 Map ID: 012350261 511 BELMONT AV

MINH TAI INC BK/PG 21390/127 Map ID: 012350259 BELMONT AV

MINH TAI INC BK/PG 21390/131 Map ID: 012350258 523 BELMONT AV

NALANI CAPITAL LLC BK/PG 24840/148 (PARCEL 1) Map ID: 012350101 486-494 BELMONT AV

NALANI CAPITAL LLC BK/PG 24840/148 (PARCEL 5) Map ID: 012350103 BELMONT AV

CUMBERLAND FARMS INC BK/PG 06101/0419 Map ID: 112800098 470 SUMNER AV

PERSAM SPRINGFIELD LLC BK/PG 21500/242 Map ID: 112800095 444 SUMNER AV

MEGA MEADOW REI LLC BK/PG 21246/314 Map ID: 039100084 388-394 DICKINSON ST

THOMAS & KIM VUONG BK/PG 17187/0035 Map ID: 039100086 400 DICKINSON ST

BRIAN M & JACQUELINE M TORPEY BK/PG 11045/0145 Map ID: 112800089 312 SUMNER AV

MUAYYAD REALTY LLC BK/PG 22687/0374 Map ID: 039100458 401 DICKINSON ST

PETRAKIS REALTY LLC & CARDINAL REALTY CO BK/PG 20510/373 Map ID: 112800414 501 SUMNER AV

LENOX CHARITABLE FUND INC BK/PG 07211/0088 Map ID: 112800415 485-489 SUMNER AV

SUMNER AVENUE 473-477 LLC 22758/383 112800416

0 20 50 100
SCALE: 1" = 20'

ALIGN_BELMONT EAST CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L8	300+00.00	2858254.998	369201.604		S13°54'01"E 73.91'	300+73.91	2858183.257	369219.359
C7	300+73.91	2858183.257	369219.359	R=56.00' Δ=61°35'23" L=60.20' T=33.38'		301+34.10	2858142.496	369259.688
L9	301+34.10	2858142.496	369259.688		S75°29'24"E 798.26'	309+32.36	2857942.494	370032.487

ALIGN_ROUNDABOUT BELMONT COMM CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
C24	350+00.00	2858052.907	369540.461	R=50.00' Δ=359°58'50" L=314.14' T=0.01'		353+14.14	2858052.922	369540.453

ALIGN-COMMONWEALTH CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L10	900+00.00	2857849.209	369708.666		N36°08'16"W 171.35'	901+71.35	2857987.593	369607.615
C8	901+71.35	2857987.593	369607.615	R=50.00' Δ=22°17'13" L=19.45' T=9.85'		901+90.80	2858005.109	369599.449
L11	901+90.80	2858005.109	369599.449		N13°51'03"W 54.41'	902+45.21	2858057.936	369586.424

SPRINGFIELD
THE 'X' INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXX(XXX)X	57	358
	PROJECT FILE NO. 608717		

CURB & BASELINE TIE PLANS

20121457A70_ALN01.DWG Plotted on 5-May-2023 4:19 PM

CURVE TABLE				
CURVE NO.	LENGTH	RADIUS	DELTA	TANGENT
C222	5.24	2.50	120°00'00.00"	4.33
C223	7.85	5.00	90°00'00.00"	5.00
C224	4.67	3.00	89°15'52.09"	2.96
C225	6.36	4.00	91°07'19.75"	4.08
C226	44.17	75.16	33°40'12.02"	22.74
C227	8.73	5.00	100°00'53.74"	5.96
C228	20.06	200.01	5°44'50.07"	10.04
C229	7.60	5.00	87°03'37.68"	4.75
C230	12.08	92.50	7°28'48.02"	6.05
C231	5.83	3.00	111°24'46.01"	4.40
C232	130.83	50.00	149°55'08.75"	186.08
C233	29.17	75.00	22°17'03.92"	14.77
C234	8.44	42.08	11°29'07.92"	4.23
C235	15.27	50.00	17°29'49.54"	7.69
C236	2.19	1.00	125°33'37.47"	1.94
C237	23.55	54.17	24°54'40.89"	11.96

CURVE TABLE				
CURVE NO.	LENGTH	RADIUS	DELTA	TANGENT
C238	5.58	2.00	160°01'09.20"	11.34
C239	9.03	20.00	25°52'00.21"	4.59
C240	19.63	51.39	21°52'55.68"	9.93
C241	19.44	12.00	92°49'17.10"	12.61
C242	2.38	1.00	136°20'03.83"	2.50
C243	17.15	51.17	19°11'58.48"	8.65
C244	24.78	74.39	19°05'02.88"	12.50
C245	5.55	2.00	159°01'42.22"	10.81
C246	22.23	91.00	13°59'39.24"	11.17
C247	2.03	1.00	116°17'12.04"	1.61
C248	5.91	3.00	112°57'34.09"	4.53
C249	35.19	75.01	26°52'37.57"	17.92
C250	15.49	10.00	88°45'03.37"	9.78
C298	2.04	1.00	116°49'51.53"	1.63
C302	10.47	10.00	60°00'00.00"	5.77

SCALE: 1" = 20'

ALIGN_BELMONT EAST CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L9	301+34.10	2858142.496	369259.688		S75°29'24"E 798.26'	309+32.36	2857942.494	370032.487

CURVE TABLE				
CURVE NO.	LENGTH	RADIUS	DELTA	TANGENT
C251	9.46	7.50	72°16'51.85"	5.48
C252	5.05	4.00	72°16'51.85"	2.92
C253	9.46	7.50	72°16'51.77"	5.48
C254	5.05	4.00	72°18'07.64"	2.92
C255	5.43	5.00	62°10'54.70"	3.02

CURVE TABLE				
CURVE NO.	LENGTH	RADIUS	DELTA	TANGENT
C256	10.85	10.00	62°10'54.70"	6.03
C257	5.50	5.00	63°01'24.25"	3.07
C258	10.85	10.00	62°11'06.77"	6.03
C259	14.58	10.00	83°32'33.08"	8.93
C260	20.00	15.00	76°23'39.74"	11.80

CURVE TABLE				
CURVE NO.	LENGTH	RADIUS	DELTA	TANGENT
C261	29.35	40.00	42°02'04.91"	15.37
C262	16.12	15.00	61°34'22.08"	8.94

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	58	358
PROJECT FILE NO.	608717		

CURB & BASELINE TIE PLANS

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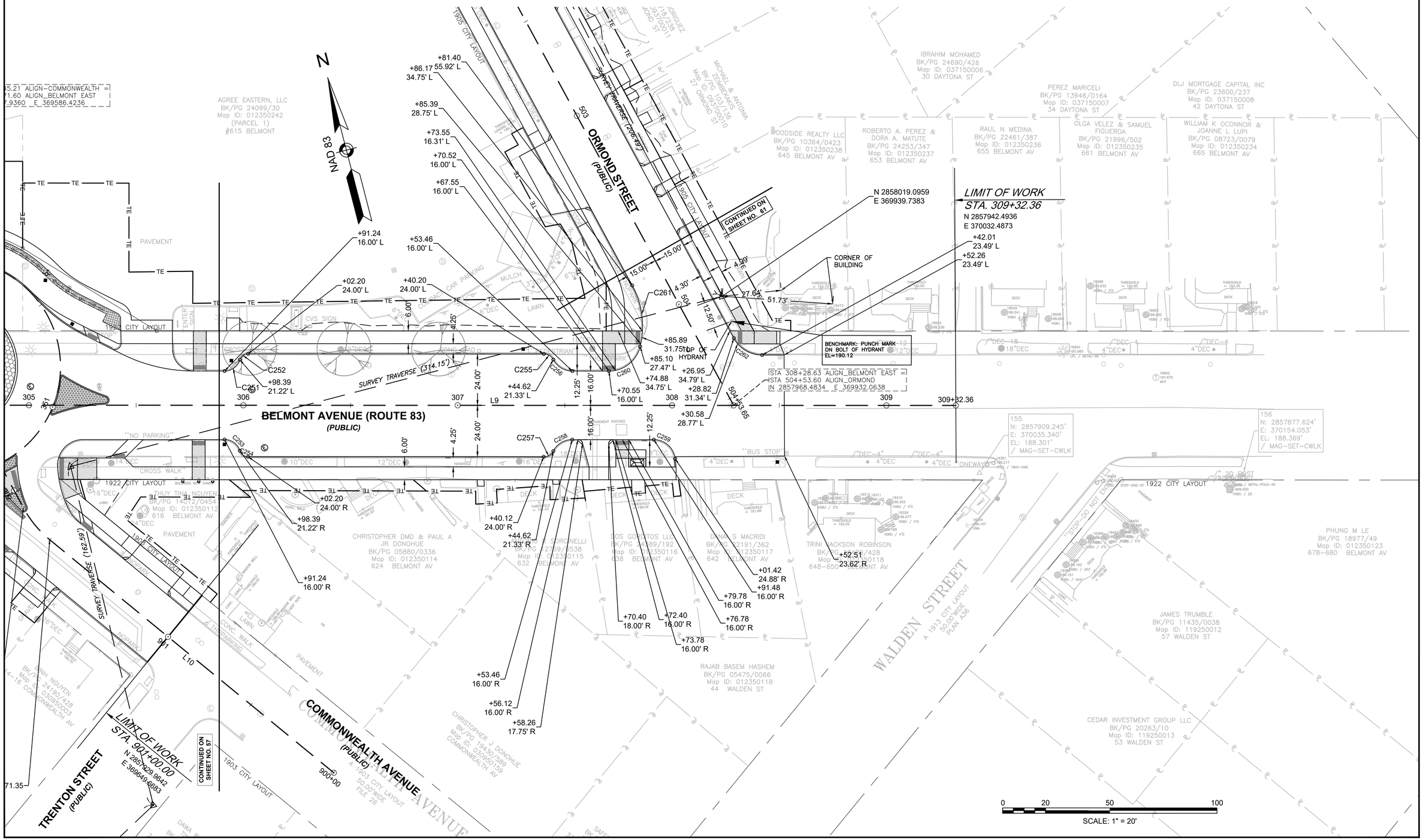

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	59	358
PROJECT FILE NO.	608717		

CURB & BASELINE TIE PLANS

20121457A70_ALN01.DWG Plotted on 5-May-2023 4:20 PM

NAD 83

LIMIT OF WORK
STA. 400+80.47
N 2858716.8242
E 368671.8197

GRENADA TERRACE (PUBLIC)

DICKINSON STREET (PUBLIC)

BURLINGTON STREET (PUBLIC)

BENCHMARK: PUNCH MARK ON BOLT OF HYDRANT EL=190.28

BENCHMARK: PUNCH MARK ON BOLT OF HYDRANT EL=189.12

BENCHMARK: TOP "I" SPINDLE HYDRANT EL=189.8

CONTINUED ON SHEET NO. 52

CONTINUED ON SHEET NO. 55

STA 401+76.58 ALIGN_DICKINSON =
STA 208+20.94 ALIGN_BELMONT-BURLINGTON
N 2858642.8329 E 368733.1307

N 2858471.7218
E 368905.9308

CORNER OF BUILDING

CENTER OF SMH

CENTER OF DMH

CENTER LIGHT POLE

CENTER OF EMH

SURVEY TRAVERSE (219.42')

SURVEY TRAVERSE (254.40')

SURVEY TRAVERSE (226.76')

SURVEY TRAVERSE (260.93')

1896 CITY LAYOUT

1922 CITY LAYOUT

SCALE: 1" = 20'

ALIGN_DICKINSON CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L12	400+00.00	2858776.498	368617.841		S42°07'54"E 80.47'	400+80.47	2858716.824	368671.820
C9	400+80.47	2858716.824	368671.820	R=1000.00' Δ=3°47'21" L=66.13' T=33.08'		401+46.60	2858666.349	368714.530
L13	401+46.60	2858666.349	368714.530		S38°20'33"E 463.80'	406+10.40	2858302.580	369002.256
C10	406+10.40	2858302.580	369002.256	R=1000.00' Δ=2°23'57" L=41.87' T=20.94'		406+52.28	2858269.204	369027.537
L14	406+52.28	2858269.204	369027.537		S35°56'36"E 788.43'	414+40.71	2857630.892	369490.333

CURVE TABLE				
CURVE NO.	LENGTH	RADIUS	DELTA	TANGENT
C263	16.26	10.03	92°51'03.58"	10.54
C264	23.55	15.00	89°57'57.57"	14.99
C265	19.53	10.00	111°49'59.66"	14.78
C266	5.06	5.00	57°59'40.62"	2.77
C267	5.06	5.00	57°59'40.62"	2.77
C268	5.06	5.00	57°58'28.97"	2.77
C269	5.06	5.00	57°58'28.97"	2.77
C270	5.07	5.00	58°04'25.14"	2.78
C271	5.09	5.00	58°18'30.56"	2.79
C272	5.30	5.00	60°44'35.47"	2.93
C273	5.06	5.00	57°59'40.67"	2.77
C274	5.06	5.00	57°59'40.62"	2.77
C275	3.93	5.00	45°00'00.00"	2.07

ALIGN_DICKINSON CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L14	406+52.28	2858269.204	369027.537		S35°56'36"E 788.43'	414+40.71	2857630.892	369490.333

CURVE TABLE				
CURVE NO.	LENGTH	RADIUS	DELTA	TANGENT
C276	5.06	5.00	57°59'44.71"	2.77
C277	5.06	5.00	57°59'40.62"	2.77
C278	5.06	5.00	57°59'40.62"	2.77
C279	5.06	5.00	57°59'40.62"	2.77

CURVE TABLE				
CURVE NO.	LENGTH	RADIUS	DELTA	TANGENT
C280	5.27	4.97	60°43'12.12"	2.91
C281	5.06	5.00	57°59'40.62"	2.77
C282	29.48	14.89	113°27'41.90"	22.69
C283	12.36	10.50	67°25'05.78"	7.01

CURVE TABLE				
CURVE NO.	LENGTH	RADIUS	DELTA	TANGENT
C284	5.07	4.99	58°15'02.98"	2.78
C285	5.06	5.00	57°59'40.62"	2.77
C286	22.06	15.00	84°15'38.99"	13.57
C287	15.60	10.00	89°22'19.90"	9.89

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	60	358
	PROJECT FILE NO. 608717		

CURB & BASELINE TIE PLANS

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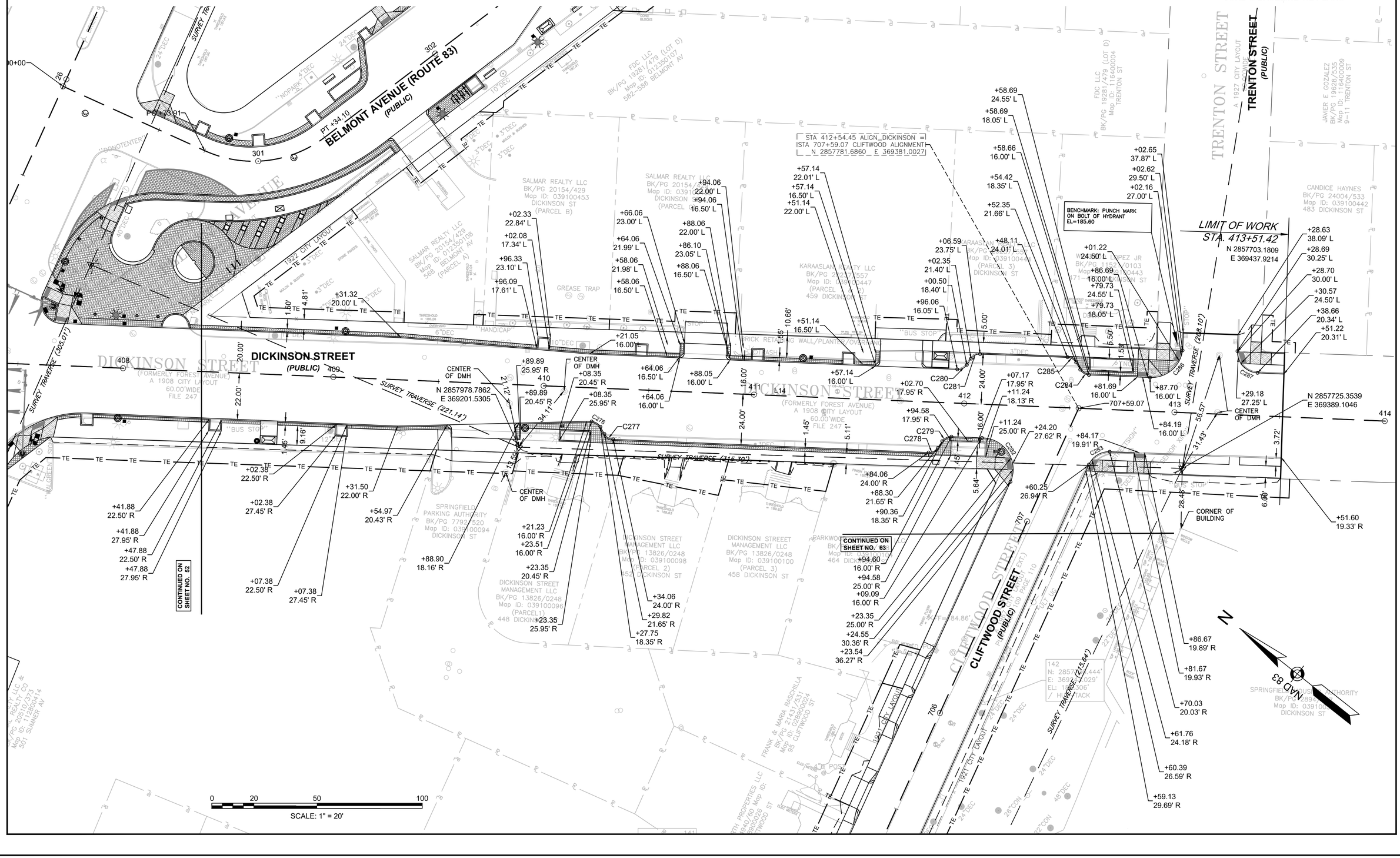

ALIGN_ORMOND CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L15	500+00.00	2858408.790	369823.034		S13°55'09"E 453.65'	504+53.65	2857968.458	369932.161

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXX(XXX)X	61	358
PROJECT FILE NO.	608717		

CURB & BASELINE TIE PLANS

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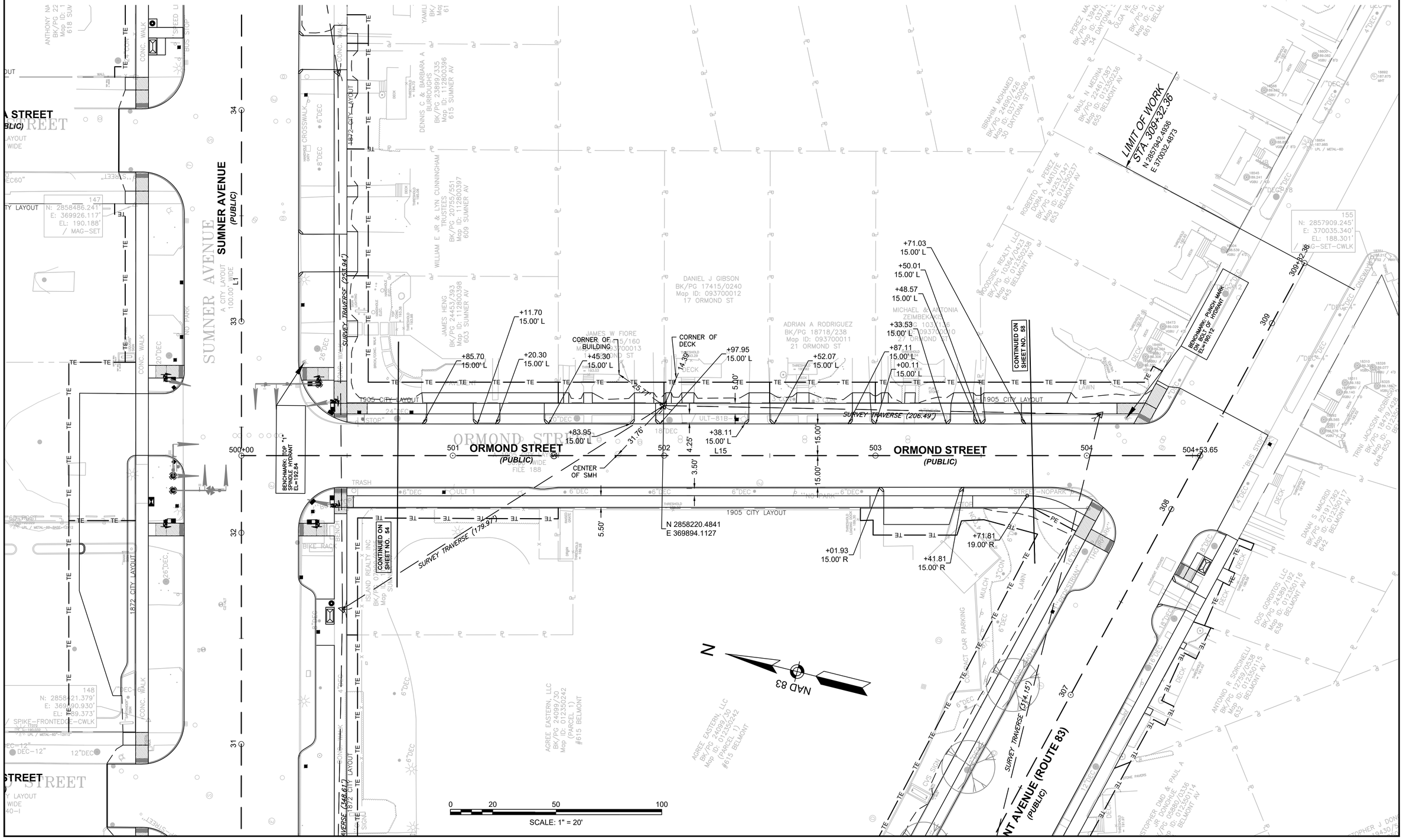


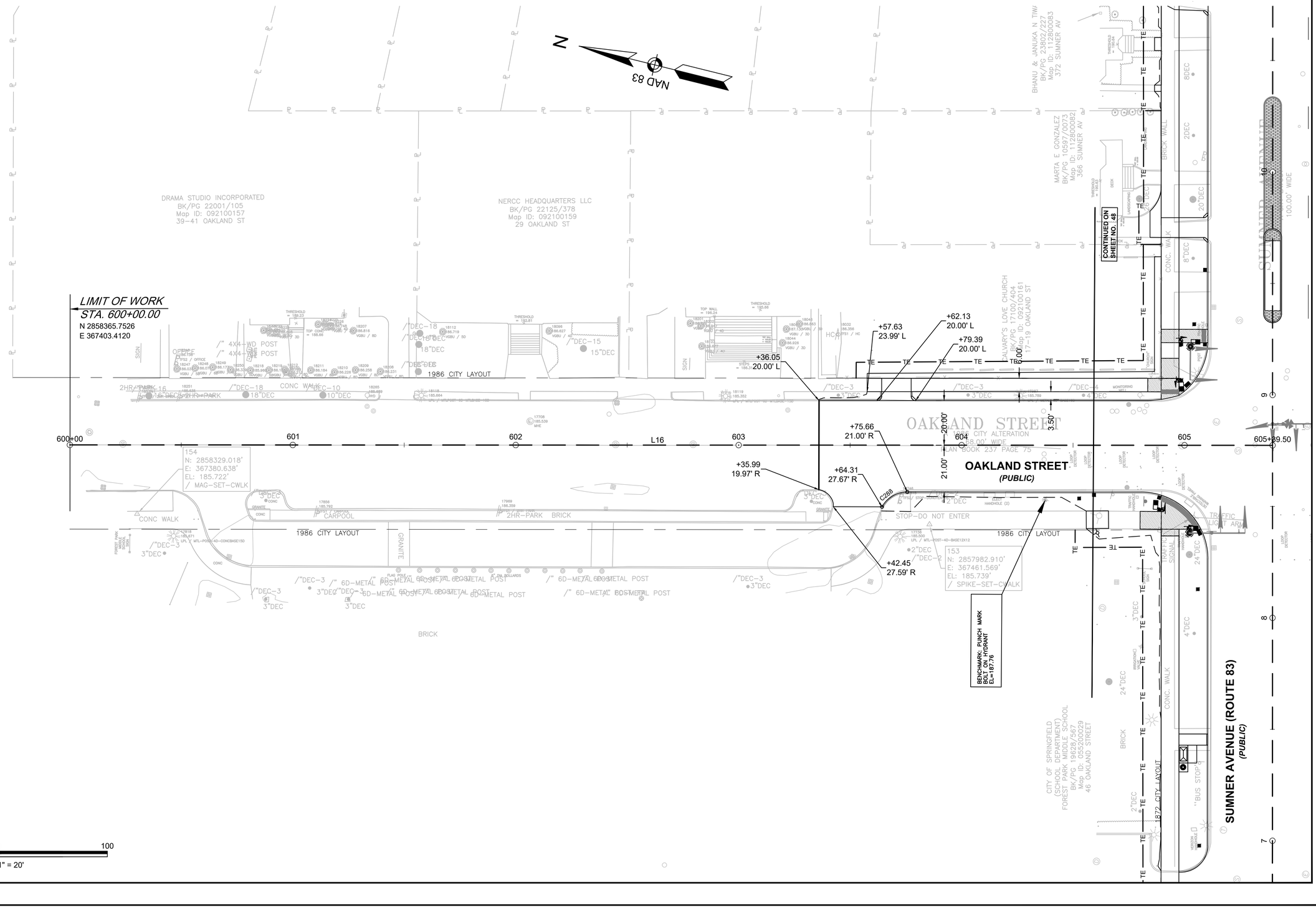
ALIGN_OAKLAND CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L16	600+00.00	2858365.753	367403.412		S13°54'01"E 539.50'	605+39.50	2857842.056	367533.017

CURVE TABLE				
CURVE NO.	LENGTH	RADIUS	DELTA	TANGENT
C288	13.80	13.00	60°50'12.33"	7.63

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	62	358
PROJECT FILE NO.	608717		

CURB & BASELINE TIE PLANS



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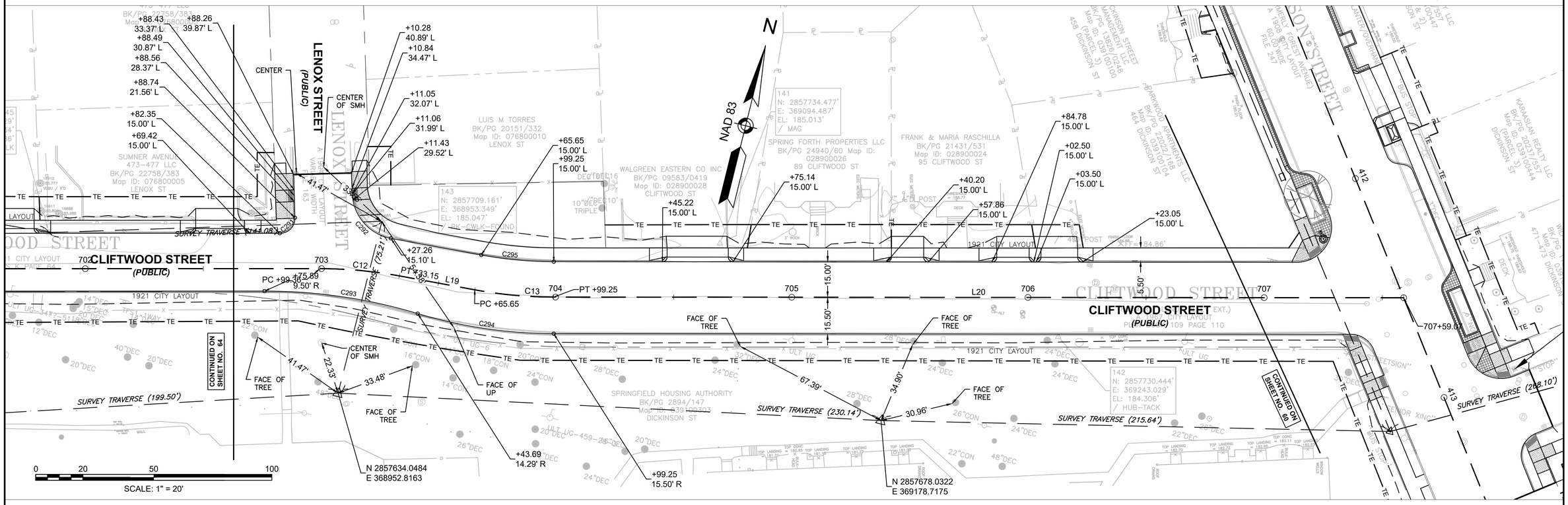
SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	63	358
	PROJECT FILE NO. 608717		

CURB & BASELINE TIE PLANS



CLIFTWOOD ALIGNMENT CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
C12	702+99.36	2857683.386	368932.688	R=185.00' Δ=10°27'50" L=33.79' T=16.94'		703+33.15	2857688.482	368966.041
L19	703+33.15	2857688.482	368966.041		N86°32'40"E 32.51'	703+65.65	2857690.441	368998.488
C13	703+65.65	2857690.441	368998.488	R=185.00' Δ=10°24'15" L=33.59' T=16.84'		703+99.25	2857695.491	369031.654
L20	703+99.25	2857695.491	369031.654		N76°08'25"E 359.83'	707+59.07	2857781.686	369381.003

CURVE TABLE				
CURVE NO.	LENGTH	RADIUS	DELTA	TANGENT
C291	10.30	6.22	94°49'11.74"	6.77
C292	26.90	20.00	77°03'22.44"	15.92
C293	65.78	225.00	16°45'06.02"	33.13
C294	58.41	200.50	16°41'31.17"	29.41
C295	30.89	170.32	10°23'26.89"	15.49

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20121457A70_ALN01.DWG Plotted on 5-May-2023 4:21 PM

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	64	358
	PROJECT FILE NO. 608717		

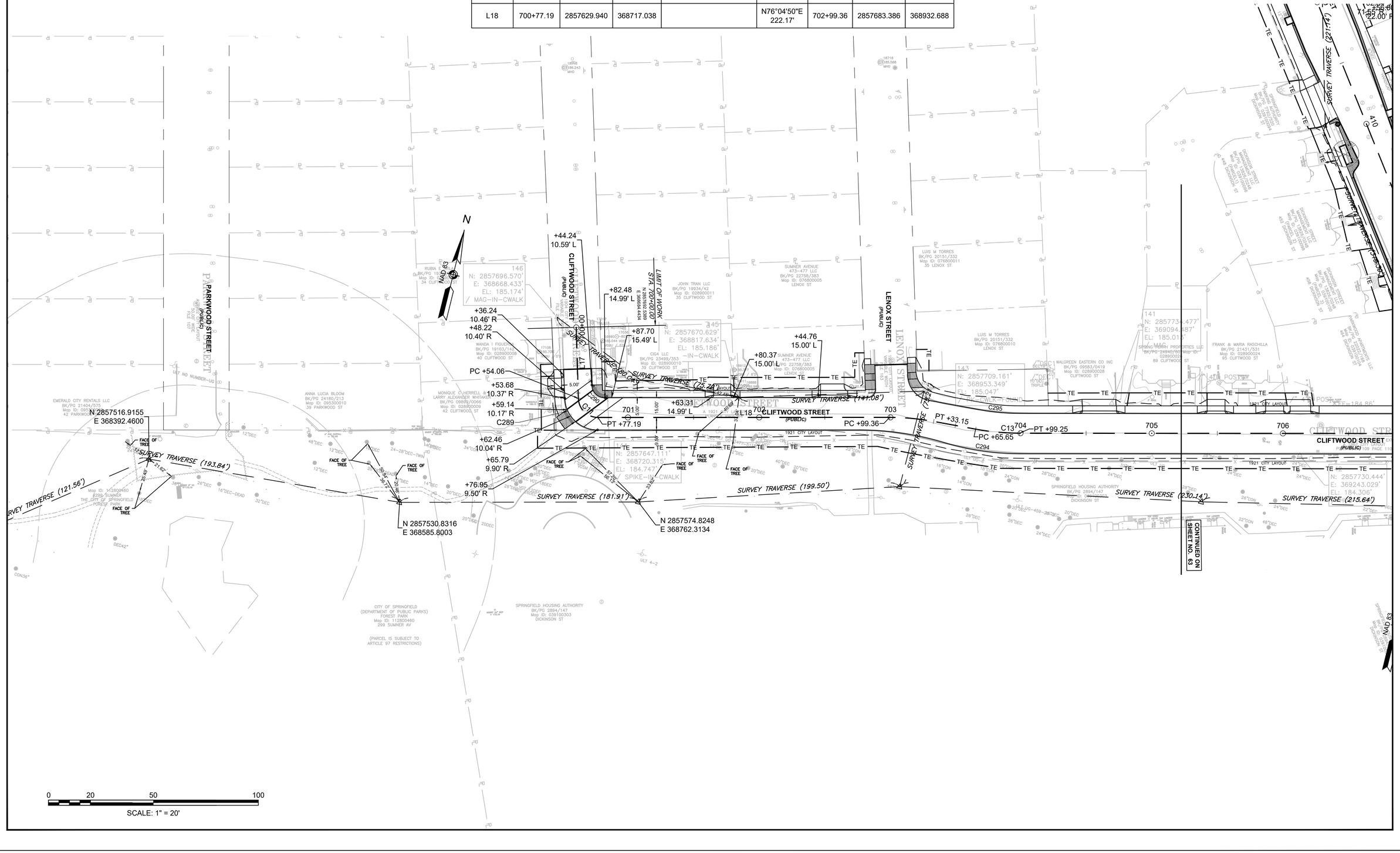
CURB & BASELINE TIE PLANS

CURVE TABLE

CURVE NO.	LENGTH	RADIUS	DELTA	TANGENT
C289	38.41	25.00	88°02'23.45"	24.16
C290	15.41	10.00	88°19'10.42"	9.71

CLIFTWOOD ALIGNMENT CONSTRUCTION BASELINE DATA

NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L17	700+00.00	2857692.539	368684.443		S15°36'00"E 54.06'	700+54.06	2857640.466	368698.982
C11	700+54.06	2857640.466	368698.982	R=15.00' Δ=88°19'10" L=23.12' T=14.57'		700+77.19	2857629.940	368717.038
L18	700+77.19	2857629.940	368717.038		N76°04'50"E 222.17'	702+99.36	2857683.386	368932.688



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MS VIEW:- LAYER STATE:-
20121457A70_ALN01.DWG Plotted on 5-May-2023 4:21 PM

SPRINGFIELD
THE "X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	65	358
	PROJECT FILE NO. 608717		

CURB & BASELINE TIE PLANS

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MS VIEW: -
LAYER STATE: -
Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: MADOT-D.STB
20121457A70_ALN01.DWG Plotted on 5-May-2023 4:21 PM

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	66	358
PROJECT FILE NO.	608717		

GRADING PLANS

20121457A70_GRA01.DWG Plotted on 5-May-2023 4:39 PM

BEGINNING OF PROJECT
STA. 0+50.00
N 2857643.2862
E 366729.8432

1909 CITY LAYOUT

CHURCHILL STREET
(PUBLIC)

RCHILL STREET

1894 CITY LAYOUT

NEVILLE A CAPLETON
BK/PG 11245/0061
Map ID: 027800018
47 CHURCHILL ST

NICOLE T BAKER
BK/PG 19782/0403
Map ID: 112800067
286 SUMNER AV

IAN C ROSE
BK/PG 17469/0531
Map ID: 112800066
280 SUMNER AV

FOREST PARK RENTALS LLC
BK/PG 21057/478
Map ID: 112800069
290-294 SUMNER AV

TRINITY ESTATE INVESTMENTS & DEVELOPMENT LLC
BK/PG 23945/195
Map ID: 112800073
302 SUMNER AV

1909 CITY LAYOUT

SUMNER TERRACE
A 1909 CITY LAYOUT
80.00' WIDE
FILE 338

SUMNER TERRACE
(PUBLIC)

1909 CITY LAYOUT

ALICIA LOCKWOOD
BK/PG 20853/107
Map ID: 112840022
11 SUMNER TE

CONTINUED ON SHEET NO. 67

MATEO JOSE M AV
SAMANTHA AV
BK/PG 23298
Map ID: 1128
330 SUMNER

NANCY BRENS
BK/PG 21886/477
Map ID: 112800074
320 SUMNER AV

ALAN J & ILENE S LERMAN
BK/PG 10817/0072
Map ID: 112800063
264 SUMNER AV

ANGELA M & CHONG K PARK
BK/PG 14296/0159
Map ID: 112800065
268 SUMNER AV

N

NAD 83

1872 CITY LAYOUT

SUMNER AVENUE (ROUTE 83)
(PUBLIC)

SUMNER AVENUE
A 1872 CITY LAYOUT
100.00' WIDE

PROP. GRADE BREAK

0+00 1 2 4 6

182.36 182.17 181.73 182.29 182.40 182.32 182.74 182.83 183.15 183.24 183.34 183.44 183.17 183.62 183.67 183.88 183.74 183.65 183.41 183.05 184.06 183.48 183.74 183.30 183.20 183.23 184.03 183.98 184.15 181.37 182.07 182.01 182.02 181.83 181.95 182.14 182.29 182.87 182.47 182.58 182.37 182.68 182.75 182.95 183.03 183.38 183.36 183.38

-2.63% -2.82% -1.66% -2.36% -2.65% -2.36% -3.02% -3.42% -1.97% -1.50% -1.51% -2.01% -2.54% -2.25% -1.52% -1.47% -1.21% -2.16% -2.36% -1.08% -0.91% -1.12% 0.16%

182.44 182.56 182.69 182.82 182.95 183.07 183.20 183.33 183.46 183.59 183.71 183.84 183.97 184.10 184.22 184.35

-2.21% -3.14% -2.78% -1.50%

181.53 181.63 181.76 181.93 182.12 182.22 182.73 182.25 182.37 183.06 182.70 183.49 182.76 182.80 183.05 183.05 183.04 183.39 183.61 184.23

182.45 182.66 182.71 182.85 182.86 183.04 182.95 183.07 183.06 182.85 183.12 182.93 182.90 183.15 183.28 183.83 183.98 184.10 184.19 184.19 184.31

1872 CITY LAYOUT

PROP. GRADE BREAK

MAIN GREETING ROAD

MAIN GREETING ROAD

CITY OF SPRINGFIELD
(DEPARTMENT OF PUBLIC PARKS)
FOREST PARK
BK/PG 408/593
Map ID: 112800460
299 SUMNER AV

(PARCEL IS SUBJECT TO ARTICLE 97 RESTRICTIONS)

CITY OF SPRINGFIELD
(DEPARTMENT OF PUBLIC PARKS)
FOREST PARK
BK/PG 408/593
Map ID: 112800460
299 SUMNER AV

(PARCEL IS SUBJECT TO ARTICLE 97 RESTRICTIONS)

???

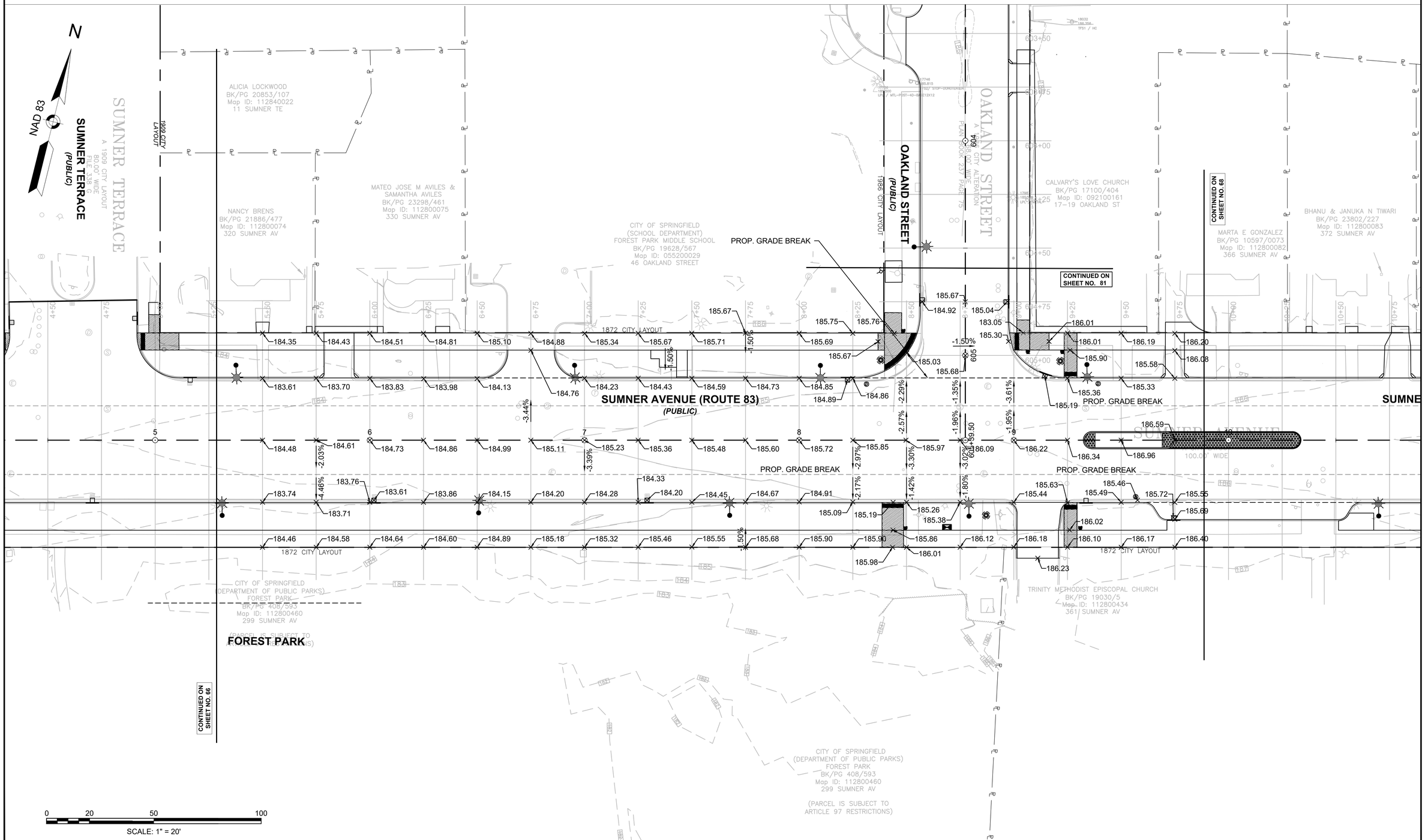
FOREST PARK

0 20 50 100
SCALE: 1" = 20'

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	67	358
PROJECT FILE NO.	608717		

GRADING PLANS



20121457A70_GRA01.DWG Plotted on 5-May-2023 4:39 PM

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	68	358
	PROJECT FILE NO. 608717		

GRADING PLANS

20121457A70_GRA01.DWG Plotted on 5-May-2023 4:39 PM

SUMNER AVENUE (ROUTE 83)
(PUBLIC)

KENWOOD TERRACE
(PUBLIC)
A 1909 CITY LAYOUT
50.00' WIDE
FILE 338 H

BEAUMONT STREET
(PUBLIC)
A 1909 CITY LAYOUT
50.00' WIDE
FILE 338 H

CONTINENTAL STREET
(PUBLIC)
A 1907 CITY LAYOUT
50.00' WIDE
FILE 225

CALVARY'S LOVE CHURCH
BK/PG 17100/404
Map ID: 092100161
9 OAKLAND ST

MARTA E GONZALEZ
BK/PG 10597/0073
Map ID: 112800082
366 SUMNER AV

BHANU & JANUKA N TIWARI
BK/PG 23802/227
Map ID: 112800083
372 SUMNER AV

KERUBE FARHADI
BK/PG 22078/523
Map ID: 112800084
376-378 SUMNER AV

ERIK G. SCOTT
BK/PG 23890/595
Map ID: 072520003
16 KENWOOD TER

LOTCUS LLC
BK/PG 24804/322
Map ID: 072520021
17 KENWOOD TER

ANDREW W VIVENZIO
BK/PG 12956/0494
Map ID: 112800085
390 SUMNER AV

DAO VU
BK/PG 15728/0310
Map ID: 112800086
398 SUMNER AV

ROSEMARY PEREZ
BK/PG 15061/0330
Map ID: 112800087
402 SUMNER AV

TOWER REALTY PARKER ST LLC
BK/PG 23062/120
Map ID: 112800088
408 SUMNER AV

GREGORY A. & EVA ROUGELLIS
BK/PG 05885/202
Map ID: 011450003
16 BEAUMONT ST

PARKRIDGE PRO
BK/PG 176
Map ID: 112
420 SUMN

TRINITY METHODIST EPISCOPAL CHURCH
BK/PG 19030/5
Map ID: 112800434
361 SUMNER AV

GEN-WEALTH PROPERTIES LLC
BK/PG 24814/392
Map ID: 112800426
407 SUMNER AV

JOSE L ESTEVEZ
BK/PG 16331/0161
Map ID: 112800425
415 SUMNER AV

PHUONG L. DO
BK/PG 15068/0443
Map ID: 031500017
11 CONTINENTAL ST

PROP. GRADE BREAK

CONTINUED ON SHEET NO. 69

CONTINUED ON SHEET NO. 67

1872 CITY LAYOUT

N
NAD 83

0 20 50 100
SCALE: 1" = 20'

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	69	358
PROJECT FILE NO.	608717		

GRADING PLANS

Plotted on 5-May-2023 4:39 PM
20121457A70_GRA01.DWG

GREGORY A. & EVA ROUGELLIS
BK/PG 05885/202
Map ID: 011450004
16 BEAUMONT ST

EDWARD M & JOANNE M PIKULA
BK/PG 08007/0095
Map ID: 011450036
17 BEAUMONT ST

NALANI CAPITAL LLC
BK/PG 24840/148 (PARCEL 5)
Map ID: 012350103
BELMONT AV

PT +22.94

ROSEMARY PEREZ
BK/PG 15061/0330
Map ID: 112800087
402 SUMNER AV

TOWER REALTY PARKER ST LLC
BK/PG 23062/120
Map ID: 112800088
408 SUMNER AV

BEAUMONT STREET
(PUBLIC)
A 1909 CITY LAYOUT
50.00' WIDE
FILE 338 H

PARKRIDGE PROPERTIES LLC
BK/PG 17660/288
Map ID: 112800089
420 SUMNER AV

ALTAGRACIA MIRIAN ESTRELLA DE URENA
BK/PG 24398/420
Map ID: 112800090
426 SUMNER AV

ISAAC GRULLON COLON
BK/PG 24472/564
Map ID: 112800091
432 SUMNER AV

SUMNER LLC
BK/PG 20291/164
Map ID: 112800092
440 SUMNER AV

PERSAM SPRINGFIELD LLC
BK/PG 21500/242
Map ID: 112800095
444 SUMNER AV

CONTINUED ON SHEET NO. 70

1872 CITY LAYOUT

13+50 13+75 14+00 14+25 14+50 14+75 15+00 15+25 15+50 15+75 16+00 16+25 16+50 16+75 17+00 17+25 17+50 17+75 18+00 18+25 18+50 18+75 19+00 19+25 19+50 19+75 20+00

187.01 188.25 187.14 188.46 1.50 188.18 188.22 188.41 188.52 187.99 188.09 1.50% 188.25 188.02 188.18 188.52 187.91 188.27 188.17 188.08 188.31
188.08 187.85 187.71 187.30 1.50% 187.50 187.28 187.36 187.55 187.66 187.58 187.36 187.34 187.15 187.29 187.31 187.46 187.60 187.64 187.61 187.59 187.58
-0.70% -1.70% -3.33% -1.94% -2.36% -1.45%
PROP. GRADE BREAK

SUMNER AVENUE (ROUTE 83)
(PUBLIC)

SUMNER AVENUE
A CITY LAYOUT
100.00' WIDE

14 15 16 17 18 19 20

188.07 188.11 188.15 188.18 188.70 188.71 188.72 188.23 188.24 188.25 188.27 188.27 188.27 188.26 188.25 188.23 188.21 188.18
-1.03% -0.82% -3.54% -3.08% -3.00% -2.35% -2.73% -2.73% -2.25% -2.46% -2.12% -1.95% -2.04%
PROP. GRADE BREAK

187.04 187.12 187.31 187.38 187.43 187.41 187.35 187.17 187.16 187.96 187.91 187.28 187.33 187.13 187.20 187.28 187.37 187.29 187.29 187.36 187.31
188.02 187.86 188.01 188.07 188.15 188.14 187.92 188.20 188.09 187.41 187.73 187.68 188.02 187.92 188.07 188.17 188.03 188.02 188.12 188.05
-3.11% -3.78% -3.72% -3.98% -3.17% -3.86% -3.94% -3.28%
-1.50% 1.50% 187.94 187.94
1872 CITY LAYOUT

PROP. GRADE BREAK

CONTINENTAL STREET
(PUBLIC)
A 1907 CITY LAYOUT
50.00' WIDE
FILE 225

PARKWOOD STREET
(PUBLIC)
A 1902 CITY LAYOUT
50.00' WIDE
FILE 107

CLIFTWOOD STREET
(PUBLIC)
A 1904 CITY LAYOUT
VARIABLE WIDTH
FILE 243 C

GEN-WEALTH PROPERTIES LLC
BK/PG 24814/392
Map ID: 112800426
407 SUMNER AV

TY G MEZZETTI
BK/PG 24949/301
Map ID: 112800424
419 SUMNER AV

PARKWOOD APARTMENTS LLC
BK/PG 18274/408
Map ID: 112800423
425 SUMNER AV

RF REALTY COMPANY LLC
BK/PG 19577/357
Map ID: 112800419
449 SUMNER AV

RF REALTY COMPANY LLC
BK/PG 19577/357
Map ID: 112800421
445 SUMNER AV

RF REALTY COMPANY LLC
BK/PG 19577/357
Map ID: 112800421
445 SUMNER AV

CONTINUED ON SHEET NO. 68

JOSE L ESTEVEZ
BK/PG 16331/0161
Map ID: 112800425
415 SUMNER AV

PHUONG L. DO
BK/PG 15068/0443
Map ID: 031500017
11 CONTINENTAL ST

FELIZ AREZ JR
BK/PG 22210/406
Map ID: 095300003
14 PARKWOOD ST

RICHARD J LABR
BK/PG 1293
Map ID: 11
461 SUMN

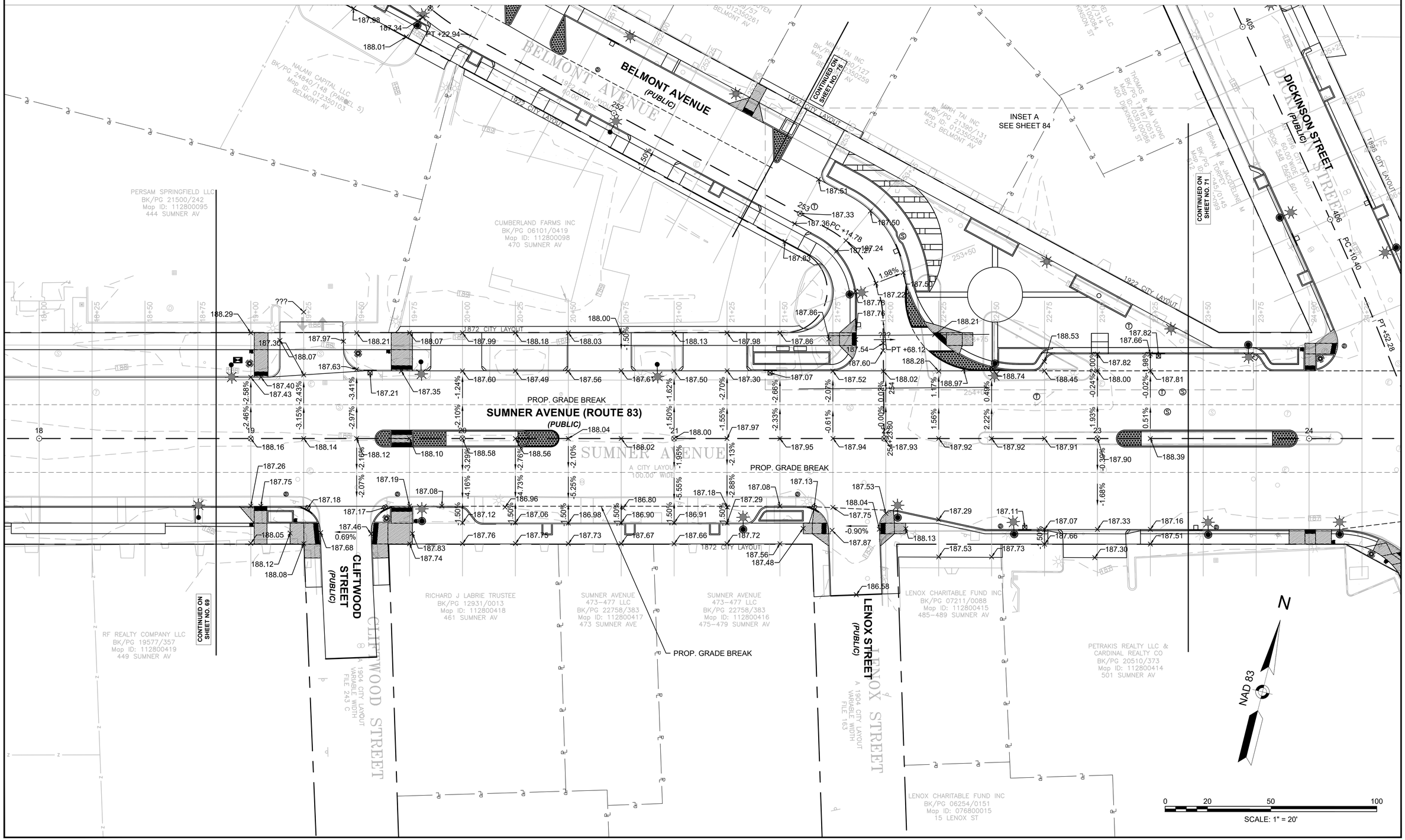
N
NAD 83

0 20 50 100
SCALE: 1" = 20'

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	70	358
PROJECT FILE NO.	608717		

GRADING PLANS



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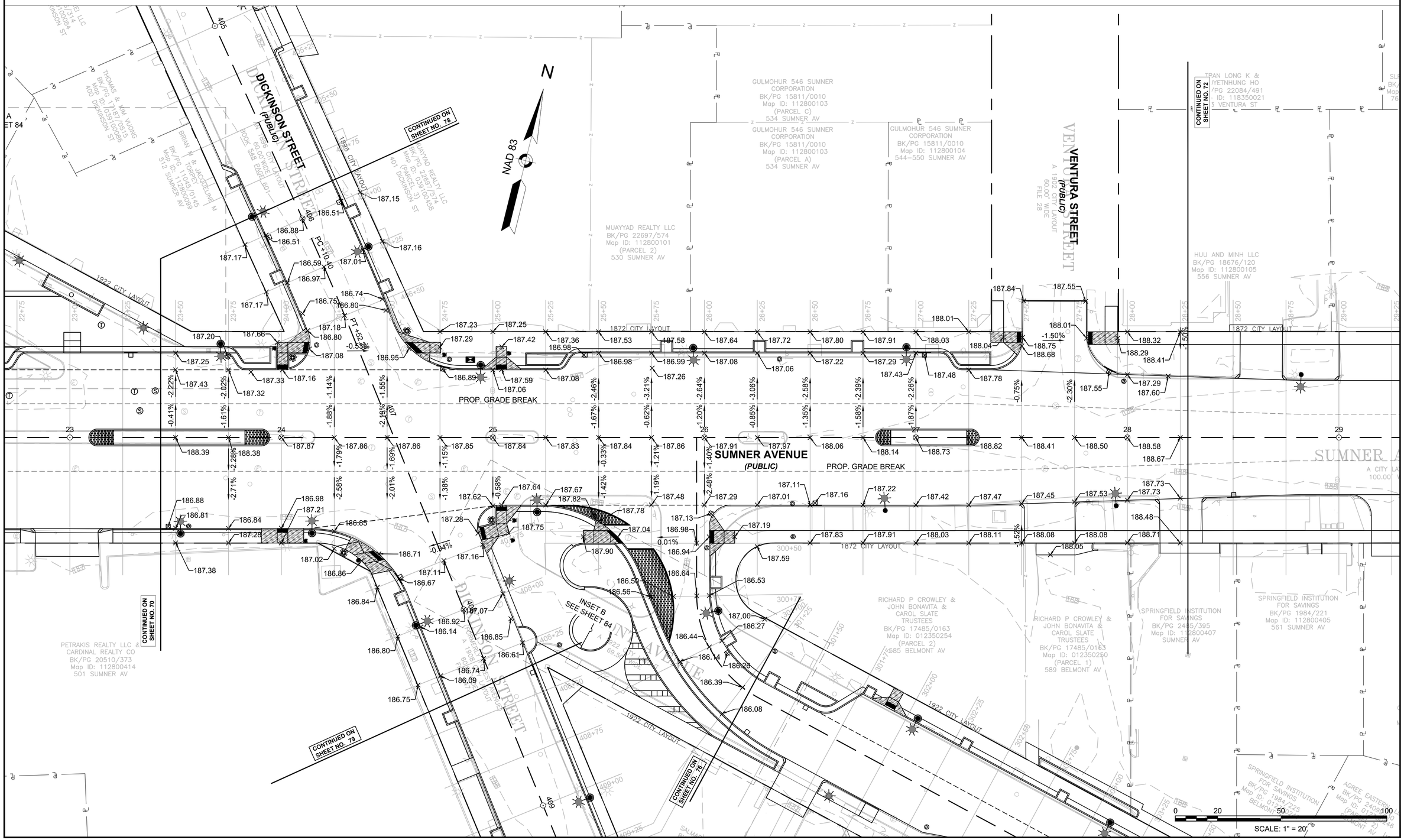
SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	71	358
PROJECT FILE NO.	608717		

GRADING PLANS



20121457A70_GRA01.DWG Plotted on 5-May-2023 4:40 PM

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	72	358
	PROJECT FILE NO. 608717		

GRADING PLANS

Plotted on 5-May-2023 4:40 PM
20121457A70_GRA01.DWG

TRAN LONG K & TUYETNHUNG HO
BK/PG 22084/491
Map ID: 118350021
73 VENTURA ST

SLF REALTY CORP
BK/PG 22981/560
Map ID: 109650013
76 SORRENTO ST

TGN ASSOCIATES LLC
BK/PG 22503/22
Map ID: 112800111
590 SUMNER AV

K S KANTOR LLC
BK/PG 13892/0227
Map ID: 112800112
(PARCEL 1)
598–600 SUMNER AV

K S KANTOR LLC
BK/PG 13892/0227
Map ID: 112800113
(PARCEL 2)
606 SUMNER AV

SONAL PATEL LLC
BK/PG 20954/93
Map ID: 112800108
570 SUMNER AV

HUU AND MINH LLC
BK/PG 18676/120
Map ID: 112800105
556 SUMNER AV

VENTURA STREET
(PUBLIC)
A 1902 CITY LAYOUT
60.00' WIDE
FILE 28

SORRENTO STREET
(PUBLIC)
A 1905 CITY LAYOUT
60.00' WIDE
FILE 340–1

N
NAD 83

CONTINUED ON SHEET NO. 73

1872 CITY LAYOUT

1905 CITY LAYOUT

PROP. GRADE BREAK

188.36 188.26 189.04 188.32 188.59 189.22 189.14 189.27 188.52 -1.50% -1.5% 188.73 189.43 189.59 188.81 188.71 188.84 188.49 188.52 188.70 188.71 188.83 188.94 188.97 1.07% 187.71 187.80 188.15 188.37 188.44 188.33 188.44 188.83 188.99 189.01 -0.34% -3.20%

SUMNER AVENUE
(PUBLIC)

PROP. GRADE BREAK

189.38 189.47 -0.76% -3.28% 189.56 189.65 189.73 -2.20% 188.76 188.85 2.40% 188.94 4.30% 189.03 2.98% 189.12 3.39% 189.20 2.17% 189.29 4.14% 1.78% 188.53 188.61 4.51% 3.21% 188.40 188.61 188.82 188.92 3.80% 188.92 189.07 2.00% 189.59 187.40 187.73 1.85% 187.91 188.02 188.34 188.34 188.54 2.85% 4.75% 188.60 188.52 188.67 188.95 188.59 188.95 189.05 189.13 189.07 189.22 189.26 1.50% 189.66 189.79

SUMNER AVENUE
A CITY LAYOUT
100.00' WIDE

SUMNER AVENUE
A CITY LAYOUT
100.00' WIDE

ORMOND STREET
A 1905 CITY LAYOUT
50.00' WIDE
FILE 188

RICHARD P CROWLEY & JOHN BONAVITA & CAROL SLATE TRUSTEES
BK/PG 17485/0183
Map ID: 012350250
(PARCEL 1)
589 BELMONT AV

SPRINGFIELD INSTITUTION FOR SAVINGS
BK/PG 1984/221
Map ID: 112800405
561 SUMNER AV

SPRINGFIELD INSTITUTION FOR SAVINGS
BK/PG 1984/225
Map ID: 012350247
BELMONT AV

MASSACHUSETTS CVS PHARMACY LLC
BK/PG 17112/99
Map ID: 112800404
SUMNER AV

AGREE EASTERN, LLC
BK/PG 24099/30
Map ID: 012350246
(PARCEL 2)
BELMONT AV

AGREE EASTERN, LLC
BK/PG 24099/30
Map ID: 012350242
(PARCEL 1)
#615 BELMONT

ISLAND REALTY INC
BK/PG 07990/0325
Map ID: 112800399
SUMNER AV

JAMES HENG
BK/PG 24453/393
Map ID: 112800398
603 SUMNER AV

WILLIAM E JR & LYN CUNNINGHAM TRUSTEES
BK/PG 20755/551
Map ID: 112800397
609 SUMNER AV

JAMES W FIORE
BK/PG 19415/166
Map ID: 093700011
11 ORMOND ST

0 20 50 100
SCALE: 1" = 20'

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	73	358
PROJECT FILE NO.	608717		

GRADING PLANS

20121457A70_GRA01.DWG Plotted on 5-May-2023 4:41 PM

N

NAD 83

SORRENTO STREET (PUBLIC)
A 1910 CITY LAYOUT
60.00' WIDE
FILE 340-I

POMONA STREET (PUBLIC)
A CITY LAYOUT
60.00' WIDE

1906 CITY LAYOUT

1872 CITY LAYOUT

END OF PROJECT
STA. 35+44.11
N 2858482.6860
E 370121.6284

TGN ASSOCIATES LLC
BK/PG 22503/22
Map ID: 112800111
590 SUMNER AV

K S KANTOR LLC
BK/PG 13892/0227
Map ID: 112800112
(PARCEL 1)
598-600 SUMNER AV

K S KANTOR LLC
BK/PG 13892/0227
Map ID: 112800113
(PARCEL 2)
606 SUMNER AV

ANTHONY NASH YEBOAH
BK/PG 22155/140
Map ID: 112800114
618 SUMNER AV

BAO PHUONG & JOHNNY DIEP
BK/PG 23818/358
Map ID: 112800115
624 SUMNER AV

ADAN ESTRADA & CARMEN D RAMOS
BK/PG 12300/0033
Map ID: 112800116
630 SUMNER AV

ROSA P RYAN
BK/PG 19017/97
Map ID: 112800117
636 SUMNER AV

PROP. GRADE BREAK

188.52 -1.50%
189.78 189.67 189.70 189.76 189.76 189.67 189.95 190.04 190.13 190.17 190.23
189.46 189.60 1.46% 189.78 190.91
190.78 190.58 190.44 190.88 190.78 1872 CITY LAYOUT
1.50%
189.03 188.89 189.21 189.05 189.52 189.39 189.38 189.45 189.45 189.70 189.68 190.03 190.15

-5.12% -3.24% -2.62% -1.42% -2.01%

SUMNER AVENUE
A CITY LAYOUT
100.00' WIDE

PROP. GRADE BREAK

-2.02% -2.00% -2.89% -0.75% -1.34%
189.82 189.91 190.00 190.08 190.17 190.26 190.34 190.42 190.50 190.59 190.67 190.75 190.83 190.90

PROP. GRADE BREAK

SUMNER AVENUE
(PUBLIC)

-3.87% -2.86% -3.49% -4.13% -1.61% -4.52% -1.75%
188.98 188.86 188.78 189.07 189.38 189.61 189.67 189.75 189.84 189.90 189.91 189.97
189.14 189.91
189.15 189.45 189.10 189.15 189.82 189.91
189.85 189.44 -0.03% 1.50%
189.55 189.50 189.42 189.12 500+50 189.03 189.29 189.15 189.58 189.66 189.75 189.48
189.47
1872 CITY LAYOUT
1872 CITY LAYOUT

ISLAND REALTY INC
BK/PG 07990/0325
Map ID: 112800399
SUMNER AV

CONTINUED ON SHEET NO. 72

CONTINUED ON SHEET NO. 80

1906 CITY LAYOUT

ORMOND STREET
A 1909 CITY LAYOUT
50.00' WIDE
FILE 188

JAMES HENG
BK/PG 24453/393
Map ID: 112800398
603 SUMNER AV

WILLIAM E JR & LYN CUNNINGHAM TRUSTEES
BK/PG 20755/551
Map ID: 112800397
609 SUMNER AV

DENNIS C & BARBARA A BURROUGHS
BK/PG 23899/335
Map ID: 112800396
615 SUMNER AV

YAMILETTE M OSTOLAZA
BK/PG 22246/312
Map ID: 112800395
619 SUMNER AV

JACKSON RUIZ
BK/PG 18378/498
Map ID: 112800394
629 SUMNER AV

SALLY & JOHNNY DIEP
BK/PG 22072/512
Map ID: 1112800393
635 SUMNER AV

JOAN PRINCE
BK/PG 23166/311
Map ID: 112800392
639 SUMNER AV

DAYTONA STREET (PUBLIC)
A 1909 CITY LAYOUT
50.00' WIDE
FILE 337-F

AGREE EASTERN, LLC
BK/PG 24099/30
Map ID: 012350242
(PARCEL 1)
#615 BELMONT

JAMES W FIORE
BK/PG 19415/166
Map ID: 093700011
11 ORMOND ST

0 20 50 100
SCALE: 1" = 20'

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	74	358
PROJECT FILE NO.	608717		

GRADING PLANS

Plotted on 5-May-2023 4:41 PM

20121457A70_GRA01.DWG

N

NAD 83

LIMIT OF WORK
STA. 200+90.00
N 2858422.6534
E 368156.1247

BEAUMONT STREET (PUBLIC)
A 1901 CITY LAYOUT
50.00' WIDE
FILE 62

BEAUMONT STREET

BELMONT AVENUE (PUBLIC)

BURLINGTON ST

CONTINUED ON SHEET NO. 78

CONTINUED ON SHEET NO. 75

BELMONT AVENUE
A 1922 CITY LAYOUT
60.00' WIDE

1922 CITY LAYOUT

PT +79.07
PC +88.91
PT +33.82
PC +47.43
PRC +80.65
PT +22.94
PC +05.16
PT +43.85

LIANG MIN & QING ZHANG
BK/PG 21058/470
Map ID: 012350280
[illegible] BELMONT AV

NGUYEN HUNG & PHONG PHAM
BK/PG 21604/107
Map ID: 012350278
461 BELMONT AV

PADAM GAJMBER & SHOVA GAJMER & DAMBER BISWA & SUBASH LUHAGUN
BK/PG 24882/192
Map ID: 012350276
463-465 BELMONT AV

CHARLES R LYONS
BK/PG 06614/1
Map ID: 012350274
467-469 BELMONT AV

NALANI CAPITAL LLC
BK/PG 24840/148 (PARCEL 6)
Map ID: 012350272
BELMONT AV

NALANI CAPITAL LLC
BK/PG 24840/148 (PARCEL 7)
Map ID: 012350271
BELMONT AV

BELMONT BURLINGTON LLC
BK/PG 22243/6
Map ID: 012350270
(PARCEL 1)
483 BELMONT AV

NALANI CAPITAL LLC
BK/PG 24840/148 (PARCEL 1)
Map ID: 012350101
486-494 BELMONT AV

NALANI CAPITAL LLC
BK/PG 24840/148 (PARCEL 2)
Map ID: 012350099
BELMONT AV

NALANI CAPITAL LLC
BK/PG 24840/148 (PARCEL 3)
Map ID: 012350097
BELMONT AV

NALANI CAPITAL LLC
BK/PG 24840/148 (PARCEL 4)
Map ID: 012350095
BELMONT AV

NALANI CAPITAL LLC
BK/PG 24840/148 (PARCEL 5)
Map ID: 012350103
BELMONT AV

SAGE HOME BUILDERS LLC
BK/PG 22895/261
Map ID: 012350094
462 BELMONT AV

MARTHA ALVARDO
BK/PG 16373/0237
Map ID: 012350092
450 BELMONT AV

SALVATORE O CIRCOSTA
BK/PG 20728/327
Map ID: 021000007
24 BURLINGTON AV

ANTONIO CALVANESE
BK/PG 20980/150
Map ID: 021000006
20 BURLINGTON ST

BELMONT BURLINGTON LLC
BK/PG 22243/6
Map ID: 021000004
(PARCEL 2)
BURLINGTON ST

ANTHONY L SANTANIELLO
BK/PG 06324/0158
Map ID: 021000013
21 BURLINGTON ST

ANTHONY L SANTANIELLO
BK/PG 07357/0103
Map ID: 021000012
25 BURLINGTON ST

FREEDOM PROPERTY GROUP LLC
BK/PG 20161/578
Map ID: 021000077
388 DICKINSON ST

BRANDON PARRELLI
497 BELMONT AVE REALTY TRUST
BK/PG 23906/23
Map ID: 012350267
497 BELMONT AV

ISABEL LUCERO-MARTINEZ
BK/PG 24598/578
Map ID: 012350265
501 BELMONT AV

509 BELMONT INC
BK/PG 13096/0178
Map ID: 012350263
505 BELMONT AV

CUMBERLAND FARMS INC
BK/PG 06101/0415
Map ID: 112800
470 SUMNER AV

0 20 50 100
SCALE: 1" = 20'

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	75	358
PROJECT FILE NO.	608717		

GRADING PLANS

Plotted on 5-May-2023 4:41 PM
20121457A70_GRA01.DWG

N
NAD 83

DICKINSON STREET (PUBLIC)
1895 CITY LAYOUT
90.00' WIDE
BOOK 3435 PAGE 601

BELMONT AVENUE (PUBLIC)
1922 CITY LAYOUT

SUMNER AVENUE (ROUTE 83) (PUBLIC)
1872 CITY LAYOUT
A CITY LAYOUT
100.00'± WIDE

LENOX STREET (PUBLIC)

INSET A
SEE SHEET 84

CONTINUED ON SHEET NO. 74

CONTINUED ON SHEET NO. 70

PC +05.16
PT +43.85
PT +79.07
PC +10.40
PT +52.28
PRC +80.65
PC +88.91
PT +33.82
PC +47.43
PT +22.94
PC +14.78
PT +68.12
PT +23.80

188.07 188.09 188.20 188.32 188.20 188.29 188.26 188.32
187.40 187.97 187.53 187.59 187.59 187.59 187.46 187.47
187.32 187.38 187.44 187.50 187.52 187.56 187.53 187.43
187.37 187.44 187.50 187.56 187.58 187.53 187.43
187.40 187.46 187.52 187.59 187.61 187.55 187.46
188.03 187.93 188.16 188.22 188.08 188.19 188.09

1.50% 0.50% 0.57% -0.68% -0.16% 0.38% 0.50%

BELMONT BURLINGTON LLC
BK/PG 22243/6
ID: 021000004
Map (PARCEL 2)
BURLINGTON ST

ANTHONY L SANTANIELLO
BK/PG 06324/0158
Map ID: 021000013
21 BURLINGTON ST

MINH TAI INC
BK/PG 21390/129
Map ID: 039100081
DICKINSON ST

MEGA MEADOW REI LLC
BK/PG 21246/314
Map ID: 039100084
388-394 DICKINSON ST

MUAYYAD REALTY LLC
BK/PG 22687/0374
Map ID: 039100458
(PARCEL 3)
401 DICKINSON ST

THOMAS & KIM VUONG
BK/PG 17187/0315
Map ID: 039100086
400 DICKINSON ST

BRIAN M. & JACQUELINE M TORPEY
BK/PG 11045/0145
Map ID: 112800099
312 SUMNER AV

BRANDON PARRELLI
497 BELMONT AVE REALTY TRUST
BK/PG 23643/233
Map ID: 012350267
497 BELMONT AV

ISABEL LUCERO-MARTINEZ
BK/PG 24598/578
Map ID: 012350265
501 BELMONT AV

509 BELMONT INC
BK/PG 13096/0178
Map ID: 012350263
505 BELMONT AV

VIEN & TROUNG NGUYEN
BK/PG 19889/57
Map ID: 012350261
511 BELMONT AV

MINH TAI INC
BK/PG 21390/127
Map ID: 012350259
BELMONT AV

MINH TAI INC
BK/PG 21390/131
Map ID: 012350258
523 BELMONT AV

NALANI CAPITAL LLC
BK/PG 24840/148 (PARCEL 1)
Map ID: 012350101
486-494 BELMONT AV

NALANI CAPITAL LLC
BK/PG 24840/148 (PARCEL 5)
Map ID: 012350103
BELMONT AV

CUMBERLAND FARMS INC
BK/PG 06101/0419
Map ID: 112800098
470 SUMNER AV

PERSAM SPRINGFIELD LLC
BK/PG 21500/242
Map ID: 112800095
444 SUMNER AV

SUMNER AVENUE
473-477 LLC
BK/PG 22756/383
Map ID: 112800416
473-477 SUMNER AV

LENOX CHARITABLE FUND INC
BK/PG 07211/0088
Map ID: 112800415
485-489 SUMNER AV

PETRAKIS REALTY LLC &
CARDINAL REALTY CO
BK/PG 20510/373
Map ID: 112800414
501 SUMNER AV

0 20 50 100
SCALE: 1" = 20'

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	76	358
PROJECT FILE NO.	608717		

GRADING PLANS

20121457A70_GRA01.DWG Plotted on 5-May-2023 4:42 PM

N

NAD 83

SUMNER AVENUE (PUBLIC)

BELMONT AVENUE (ROUTE 83) (PUBLIC)

DICKINSON STREET (PUBLIC)

COMMONWEALTH AVENUE (PUBLIC)

TRENTON STREET (PUBLIC)

LIMIT OF WORK STA. 307+00.00

PROP. GRADE BREAK

1872 CITY LAYOUT

1922 CITY LAYOUT

1903 CITY LAYOUT

CONTINUED ON SHEET NO. 77

CONTINUED ON SHEET NO. 71

INSET B SEE SHEET 84

RICHARD P CROWLEY & JOHN BONAVITA & CAROL SLATE TRUSTEES BK/PG 17485/0163 Map ID: 012350254 (PARCEL 2) 585 BELMONT AV

RICHARD P CROWLEY & JOHN BONAVITA & CAROL SLATE TRUSTEES BK/PG 17485/0163 Map ID: 012350250 (PARCEL 1) 589 BELMONT AV

SPRINGFIELD INSTITUTION FOR SAVINGS BK/PG 2485/395 Map ID: 112800407 SUMNER AV

SPRINGFIELD INSTITUTION FOR SAVINGS BK/PG 1984/221 Map ID: 112800405 561 SUMNER AV

MASSACHUSETTS CVS PHARMACY LLC BK/PG 17112/99 Map ID: 112800404 SUMNER AV

AGREE EASTERN, LLC BK/PG 24099/30 Map ID: 012350246 (PARCEL 2) BELMONT AV

SPRINGFIELD INSTITUTION FOR SAVINGS BK/PG 1984/225 Map ID: 012350247 BELMONT AV

AGREE EASTERN, LLC BK/PG 24099/30 Map ID: 012350245 (PARCEL 3) BELMONT AV

AGREE EASTERN, LLC BK/PG 24099/30 Map ID: 012350242 (PARCEL 1) #615 BELMONT

SALMAR REALTY LLC BK/PG 20154/429 Map ID: 012350108 568 BELMONT AV (PARCEL A)

SALMAR REALTY LLC BK/PG 20154/429 Map ID: 039100453 DICKINSON ST (PARCEL B)

SALMAR REALTY LLC BK/PG 20154/429 Map ID: 039100453 DICKINSON ST (PARCEL C)

FDC LLC BK/PG 19281/479 (LOT D) Map ID: 012350107 582–586 BELMONT AV

HSU LIANG MIN & CUI QING ZHANG BK/PG 21533/72 Map ID: 012350110 600 BELMONT AV

CINDY TAI BK/PG 24792/76 Map ID: 030980002 6–10 COMMONWEALTH AV

BINH NGUYEN BK/PG 24199/428 Map ID: 030980003 14–16 COMMONWEALTH AV

THUY TINH NGUYEN BK/PG 5012/0464 Map ID: 012350112 646 BELMONT AV

CHRISTOPHER DMD & PA JR DONOHUE BK/PG 05880/0336 Map ID: 012350111 624 BELMONT AV

SPRINGFIELD PARKING AUTHORITY BK/PG 7792/5520 Map ID: 039100094 DICKINSON ST

0 20 50 100

SCALE: 1" = 20'

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	77	358
PROJECT FILE NO.	608717		

GRADING PLANS

20121457A70_GRA01.DWG Plotted on 5-May-2023 4:42 PM

N

NAD 83

AGREE EASTERN, LLC
BK/PG 24099/30
Map ID: 012350242
(PARCEL 1)
#615 BELMONT

1905 CITY LAYOUT

503

MICHAEL & ANTONIA ZEMBEKAKIS
BK/PG 10370/0010
Map ID: 093700001
27 ORMOND ST

J ROBRIGUEZ
BK/PG 16713/0236
ID: 093700001
ORMOND ST

IBRAHIM MOHAMED
BK/PG 24690/426
Map ID: 037150006
30 DAYTONA ST

PEREZ MARICELI
BK/PG 13946/0164
Map ID: 037150007
34 DAYTONA ST

DLJ MORTGAGE CAPITAL INC
BK/PG 23600/237
Map ID: 037150008
42 DAYTONA ST

WOODSIDE REALTY LLC
BK/PG 10364/0423
Map ID: 012350238
645 BELMONT AV

ROBERTO A. PEREZ &
DORA A. MATUTE
BK/PG 24253/347
Map ID: 012350237
653 BELMONT AV

RAUL N MEDINA
BK/PG 22461/387
Map ID: 012350236
655 BELMONT AV

OLGA VELEZ & SAMUEL FIGUEROA
BK/PG 21996/502
Map ID: 012350235
661 BELMONT AV

WILLIAM K OCONNOR & JOANNE L LUPI
BK/PG 08723/0079
Map ID: 012350234
665 BELMONT AV

LIMIT OF WORK
STA. 309+32.36
N 2857942.4936
E 370032.4873

CONTINUED ON SHEET NO. 99

1922 CITY LAYOUT

1905 CITY LAYOUT

504

504+53.85

BELMONT AVENUE (ROUTE 83)
(PUBLIC)

THUY TINA NGUYEN
BK/PG 14012/0454
Map ID: 012350112
616 BELMONT AV

CHRISTOPHER DMD & PAUL A JR DONOHUE
BK/PG 05880/0336
Map ID: 012350114
624 BELMONT AV

ANTONIO R SORCINELLI
BK/PG 12759/0538
Map ID: 012350115
632 BELMONT AV

DOS GORDITOS LLC
BK/PG 24389/192
Map ID: 012350116
638 BELMONT AV

DANAI S MACRIDI
BK/PG 22191/362
Map ID: 012350117
642 BELMONT AV

TRINI JACKSON ROBINSON
BK/PG 18479/428
Map ID: 012350118
648–650 BELMONT AV

PHUNG M LE
BK/PG 18977/49
Map ID: 012350123
678–680 BELMONT AV

PC +71.35

901

BINH NGUYEN
BK/PG 24190/428
Map ID: 030050003
16 COMMONWEALTH AV

LIMIT OF WORK
STA. 901+00.00
N 2857029.9642
E 369649.6683

TRENTON STREET
(PUBLIC)

CONTINUED ON SHEET NO. 76

1903 CITY LAYOUT

COMMONWEALTH AVENUE
(PUBLIC)

900+00

CHRISTOPHER J DONOHUE
BK/PG 19430/0589
Map ID: 030950139
COMMONWEALTH AV

A 1903 CITY LAYOUT
50.00'WIDE
FILE 26

RAJAB BASEM HASHEM
BK/PG 05475/0066
Map ID: 012350118
44 WALDEN ST

WALDEN STREET
A 1913 CITY LAYOUT
50.00'WIDE
PLAN A36

JAMES TRUMBLE
BK/PG 11435/0038
Map ID: 119250012
57 WALDEN ST

CEDAR INVESTMENT GROUP LLC
BK/PG 20263/10
Map ID: 119250013
53 WALDEN ST

| | | |

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXX(XXX)X	78	358
PROJECT FILE NO.	608717		

GRADING PLANS

Plotted on 5-May-2023 4:42 PM
20121457A70_GRA01.DWG

N
NAD 83

LIMIT OF WORK
STA. 400+80.47
N 2858716.8242
E 368671.8197

GRENADA TERRACE (PUBLIC)
1896 CITY LAYOUT
35.00' WIDE
BOOK 548 PAGE 601

DICKINSON STREET (PUBLIC)
1896 CITY LAYOUT
35.00' WIDE
BOOK 548 PAGE 601

BURLINGTON STREET (PUBLIC)
A 1908 CITY LAYOUT
45.00' WIDE
BLC 245

BELMONT AVENUE
1972 CITY LAYOUT

HOLY NAME CATHOLIC ASSOCIATION
BK/PG 2029/278
Map ID: 039100474
DICKINSON ST

IRENE A FONTAINE
BK/PG 07687/499
Map ID: 060600038
17 GRENADA TERRACE

FOREST ORCHARD LLC
BK/PG 24835/469
Map ID: 039100468
371 DICKINSON ST

VU SAM LAP & KIM CHAM TANG TRUSTEES
BK/PG 11118/0391
Map ID: 039100464
385 DICKINSON ST

MUAYYAD REALTY LLC
BK/PG 22697/574
Map ID: 039100461
(PARCEL 1)
DICKINSON ST

MUAYYAD REALTY LLC
BK/PG 22697/574
Map ID: 039100458
(PARCEL 3)
401 DICKINSON ST

BISWA GANGA
BK/PG 20723/335
Map ID: 039100075
350 DICKINSON ST

EURIPIDES PETER PIATTI-RIOS
BK/PG 23787/249
Map ID: 039100076
358 DICKINSON ST

FREEDOM PROPERTY GROUP LLC
BK/PG 20116/578
Map ID: 039100077
368 DICKINSON ST

PHUNG M LE
BK/PG 20981/46
Map ID: 039100078
DICKINSON ST

PHUNG LE
BK/PG 19477/172
Map ID: 039100079
378-380 DICKINSON ST

MINH TAI INC
BK/PG 21390/129
Map ID: 039100081
DICKINSON ST

MEGA MEADOW REI LLC
BK/PG 21246/314
Map ID: 039100084
388-394 DICKINSON ST

THOMAS & KIM VUONG
BK/PG 17187/0515
Map ID: 039100086
400 DICKINSON ST

BRIAN M & MADELINE M TORPEY
BK/PG 11045/0145
Map ID: 112800099
512 SUMNER AV

SALVATORE O CIRCOSTA
BK/PG 20228/327
Map ID: 021000007
24 BURLINGTON AV

ANTHONY L SANTANIELLO
BK/PG 07357/0103
Map ID: 021000012
25 BURLINGTON ST

ANTHONY L SANTANIELLO
BK/PG 06324/0158
Map ID: 021000013
21 BURLINGTON ST

ANTONIO CALVANESE
BK/PG 20990/150
Map ID: 021000006
20 BURLINGTON ST

MINH TAI INC
BK/PG 21390/131
Map ID: 012350258
523 BELMONT AV

MINH TAI INC
BK/PG 21390/127
Map ID: 012350259
BELMONT AV

VIEN & TROUNG NGUYEN
BK/PG 19889/57
Map ID: 012350261
511 BELMONT AV

509 BELMONT INC
BK/PG 13096/0178
Map ID: 012350263
505 BELMONT AV

LENOX CHARITABLE
BK/PG
Map ID:
WORCESTER

1896 CITY LAYOUT
35.00' WIDE
BOOK 548 PAGE 601

CONTINUED ON SHEET NO. 71

CONTINUED ON SHEET NO. 74

INSET A SEE SHEET 84

PC +80.47
PT +46.60
PC +10.40
PT +52.28
PT +79.07
PC +14.78
PT +68.12
PT +23.80

401 402 403 404 405 406 206 253 254

187.96 187.49 187.58 187.53 188.07 187.38 187.53 188.10 187.23 187.83 187.97 187.36 187.87 187.46 187.51 187.44 188.05 188.08 187.81 187.30 187.35 187.45 187.92 188.29 187.90 187.78 187.63 187.77 187.61 187.42 187.37 187.60 187.29 187.62 187.55 187.42 187.38 187.17 188.18 187.32 187.20 187.05 187.07 187.05 186.93 186.88 186.83 186.78 186.97 186.96 186.89 186.78 186.74 186.54 187.87 187.80 187.68 187.53 187.38 187.28 187.27 187.30 187.33 187.37 187.36 187.29 187.18 187.07 186.96 187.55 187.88 187.58 187.24 187.20 187.32 187.21 187.06 186.97 186.95 186.98 186.87 186.91 187.00 186.95 186.91 186.86 186.78 186.50 187.89 187.77 187.80 187.97 187.68 187.59 187.31 187.57 187.58 187.53 187.48 187.43 187.35 187.25 188.24 188.24 188.25 187.44 187.89 187.62 187.89 187.72 187.96 187.90 188.08 187.99 188.19 187.95 187.85 187.77 187.65 187.51 ??? -2.68% -3.24% -1.27% -1.62% -1.48% -1.78% -0.43% -2.00% -2.00% -1.50% -1.36% -1.50% 208.20.94 207+75 207+50 207+25 207+00 206+75 206+50 206+25 206+00 401+75 402+00 402+25 402+50 402+75 403+00 403+25 403+50 403+75 404+00 404+25 404+50 404+75 405+00 405+25 405+50 405+75 406+00 406+25 406+50 24+75 25+00 25+25 25+50 25+75 23+75 23+50 23+25 23+00 22+75 22+50 22+25 22+00 21+75 21+50

0 20 50 100
SCALE: 1" = 20'

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	79	358
	PROJECT FILE NO. 608717		

GRADING PLANS

20121457A70_GRA01.DWG Plotted on 5-May-2023 4:42 PM

SUMNER AVENUE (PUBLIC)

DICKINSON STREET (PUBLIC)

DICKINSON STREET (FORMERLY FOREST AVENUE) A 1908 CITY LAYOUT 60.00' WIDE FILE 247

TRENTON STREET (PUBLIC)

TRENTON STREET A 1927 CITY LAYOUT 50.00' WIDE PLAN 5 PAGE 24

CLIFTWOOD STREET (PUBLIC)

CLIFTWOOD STREET (FORMERLY KNOX ALLEY) A 1907 CITY LAYOUT PLAN BOOK 109 PAGE 110

INSET B SEE SHEET 84

LIMIT OF WORK
STA. 413+51.42
N 2857703.1809
E 369437.9214

PROP. GRADE BREAK

CONTINUED ON SHEET NO. 71

CONTINUED ON SHEET NO. XXX

1922 CITY LAYOUT

1921 CITY LAYOUT

FDC LLC
BK/PG 19281/479 (LOT D)
Map ID: 012350107
582-586 BELMONT AV

FDC LLC
BK/PG 19281/479 (LOT D)
Map ID: 116400004
TRENTON ST

JAVIER E GOZALEZ
BK/PG 19628/535
Map ID: 116400009
9-11 TRENTON ST

CANDICE HAYNES
BK/PG 24004/533
Map ID: 039100442
483 DICKINSON ST

SALMAR REALTY LLC
BK/PG 20154/429
Map ID: 039100453
DICKINSON ST
(PARCEL B)

SALMAR REALTY LLC
BK/PG 20154/429
Map ID: 039100453
DICKINSON ST
(PARCEL C)

SALMAR REALTY LLC
BK/PG 20154/428
Map ID: 012350108
568 BELMONT AV
(PARCEL A)

KARAASLAN REALTY LLC
BK/PG 20237/557
Map ID: 039100444
(PARCEL 3)
DICKINSON ST

KARAASLAN REALTY LLC
BK/PG 20237/557
Map ID: 039100447
(PARCEL 1 & 2)
459 DICKINSON ST

WILFREDO LOPEZ JR
BK/PG 11521/0103
Map ID: 039100443
471-473 DICKINSON ST

SPRINGFIELD PARKING AUTHORITY
BK/PG 7792/520
Map ID: 039100094
DICKINSON ST

DICKINSON STREET MANAGEMENT LLC
BK/PG 13826/0248
Map ID: 039100098
(PARCEL 2)
452 DICKINSON ST

DICKINSON STREET MANAGEMENT LLC
BK/PG 13826/0248
Map ID: 039100096
(PARCEL1)
448 DICKINSON ST

DICKINSON STREEET MANAGEMENT LLC
BK/PG 13826/0248
Map ID: 039100100
(PARCEL 3)
458 DICKINSON ST

PARKWOOD APARTMENTS LLC
BK/PG 22022/168
Map ID: 039100104
464 DICKINSON ST

FRANK & MARIA RASCHILLA
BK/PG 21431/331
Map ID: 039100024
95 CLIFTWOOD ST

SPRINGFIELD HOUSING AUTHORITY
BK/PG 2894/147
Map ID: 039100303
DICKINSON ST

NAD 83

0 20 50 100
SCALE: 1" = 20'

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXX(XXX)X	80	358
	PROJECT FILE NO. 608717		

GRADING PLANS

20121457A70_GRA01.DWG Plotted on 5-May-2023 4:43 PM

SUMNER AVENUE (PUBLIC)

ORMOND STREET (PUBLIC)

LIMIT OF WORK
STA. 3091+32.36
N 2857942.4936
E 370032.4873

CONTINUED ON SHEET NO. 77

CONTINUED ON SHEET NO. 73

SUMNER AVENUE
1872 CITY LAYOUT – 100.00' WIDE

1905 CITY LAYOUT – 50.00' WIDE

1872 CITY LAYOUT

1905 CITY LAYOUT

ANTHONY NA BK/PG 22 Map ID: 6 618 SUM

DENNIS C. & BARBARA A BURROUGHS BK/PG 23899/335 Map ID: 112800396 615 SUMNER AV

WILLIAM E JR & LYN CUNNINGHAM TRUSTEES BK/PG 20755/551 Map ID: 112800397 609 SUMNER AV

JAMES HENG BK/PG 24453/393 Map ID: 112800398 603 SUMNER AV

JAMES W FIORE BK/PG 19415/160 Map ID: 093700013 11 ORMOND ST

DANIEL J GIBSON BK/PG 17415/0240 Map ID: 093700012 17 ORMOND ST

ADRIAN A RODRIGUEZ BK/PG 18718/238 Map ID: 093700011 21 ORMOND ST

MICHAEL & ANTONIA ZEIMBEKAKIS BK/PG 103/136 Map ID: 093700010 27 ORMOND ST

IBRAHIM MOHAMED BK/PG 24690/426 Map ID: 037150006 30 DAYTONA ST

PEREZ, MA BK/PG 1394 Map ID: 031 32 DAYTONA

VLGA W FG BK/PG 2 Map ID: 2 881 BELMO

RAUL N MEDINA BK/PG 22461/387 Map ID: 012350236 855 BELMONT AV

ROBERTO A. PEREZ & DORA A. MITUTE BK/PG 24353/347 Map ID: 012350237 853 BELMONT AV

WOODSIDE REALTY, LLC BK/PG 10364/0433 Map ID: 012350238 845 BELMONT AV

ISLAND REALTY INC BK/PG 07 Map ID: 1 SUM

AGREE, EASTERN, LLC BK/PG 24099/30 Map ID: 012350242 (PARCEL 1) #615 BELMONT

AGREE, EASTERN, LLC BK/PG 24099/30 Map ID: 012350242 (PARCEL 1) #615 BELMONT

DANIEL S. MACGIDI BK/PG 22191/362 Map ID: 012350117 642 BELMONT AV

DOS GORDITOS, LLC BK/PG 24388/192 Map ID: 012350116 638 BELMONT AV

ANTONIO R. SORCINELLI BK/PG 12759/0538 Map ID: 012350115 632 BELMONT AV

TRINI JACKSON ROBINSON BK/PG 18479/226 Map ID: 012350 645-650 BE

CHRISTOPHER DMD & PAUL A JR DONOHUE BK/PG 05880/0336 Map ID: 012350114 BELMONT AV

CHRISTOPHER J DON

34+25 34+00 33+75 33+50 33+25 33+00 32+75 32+50 32+25 32+00 31+75 31+50 31+25 31+00 30+75

500+00 500+50 501 501+00 501+25 501+50 501+75 502 502+25 502+50 502+75 503 503+25 503+50 503+75 504 504+00 504+53.65

304+50 305+00 305+25 305+50 305+75 306+00 306+25 306+50 306+75 307+00 307+25 307+50

189.86 189.34 189.22 189.45 189.35 189.39 188.88 188.60 188.82 188.78 188.65 188.56

188.85 188.68 188.62 188.55 188.43 188.31 188.18 188.06 187.93 187.81 187.68 187.56 187.44

189.15 188.98 188.85 188.73 188.60 188.48 188.36 188.23 188.11 187.98 187.86 187.74

188.85 188.68 188.62 188.55 188.43 188.31 188.19 188.06 187.93 187.81 187.69 187.56 187.44

189.43 189.34 189.16 188.99 188.84 188.77 188.63 188.52 188.48 188.36 188.26 188.29

188.52

-1.50% -2.00% -2.49%

N

NAD 83

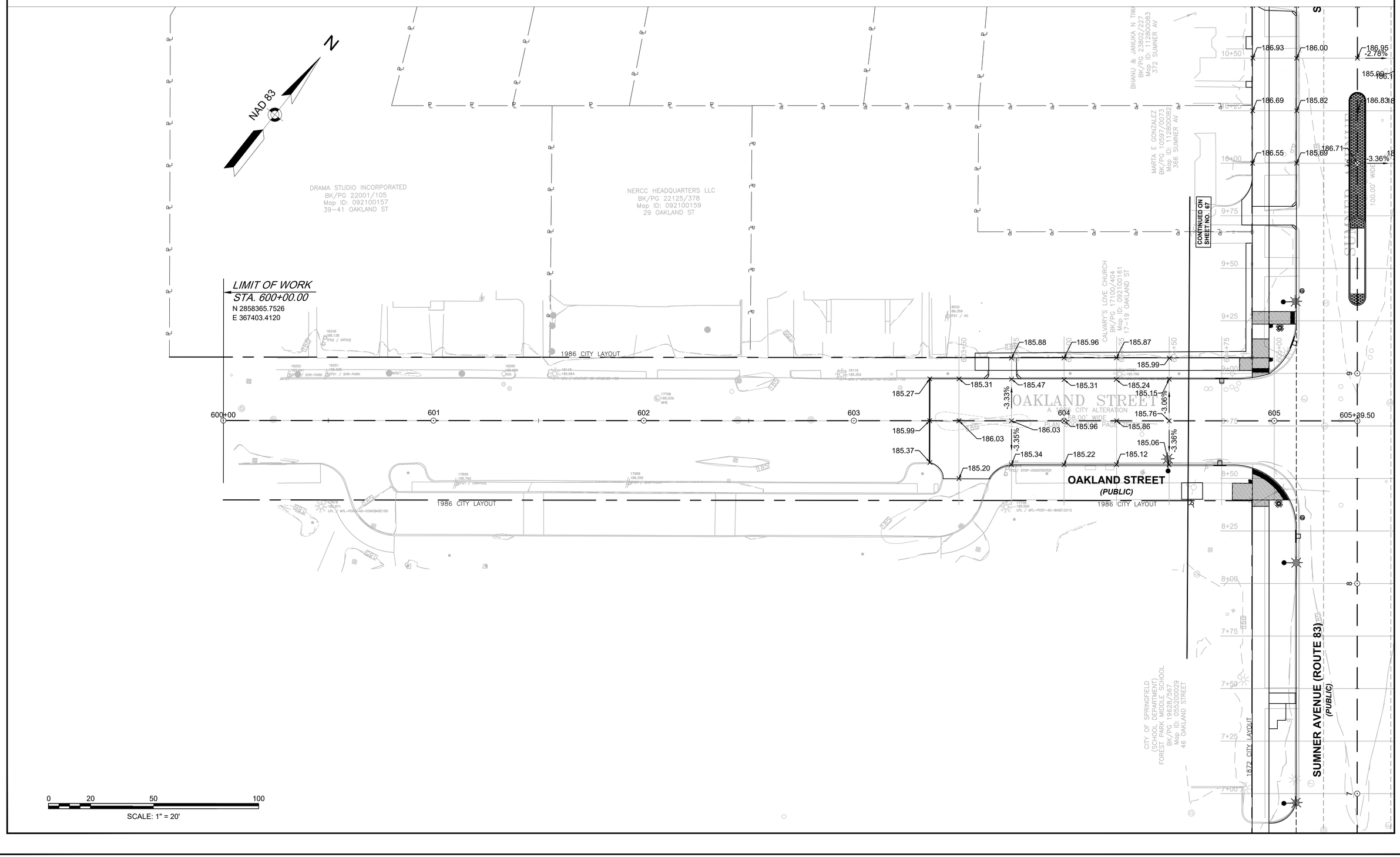
0 20 50 100

SCALE: 1" = 20'

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	81	358
PROJECT FILE NO.	608717		

GRADING PLANS



Plotted on 5-May-2023 4:43 PM
20121457A70_GRA01.DWG

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	82	358
	PROJECT FILE NO. 608717		

GRADING PLANS

20121457A70_GRA01.DWG Plotted on 5-May-2023 4:43 PM

LENOX STREET (PUBLIC)

CLIFTWOOD STREET (PUBLIC)

DICKINSON STREET (FORMERLY FOREST AVENUE) A 1908 CITY LAYOUT 80.00 WIDE FILE 22

SUMNER AVENUE 473–477 LLC BK/PG 22758/383 Map ID: 076800005 LENOX ST

LUIS M TORRES BK/PG 20151/332 Map ID: 076800011 35 LENOX ST

LUIS M TORRES BK/PG 20151/332 Map ID: 076800010 LENOX ST

WALGREEN EASTERN CO INC BK/PG 09583/0419 Map ID: 028900028 CLIFTWOOD ST

SPRING FORTH PROPERTIES LLC BK/PG 24940/60 Map ID: 028900026 89 CLIFTWOOD ST

FRANK & MARIA RASCHILLA BK/PG 21431/531 Map ID: 028900024 95 CLIFTWOOD ST

DICKINSON STREET MANAGEMENT LLC BK/PG 13826/0248 Map ID: 039100096 448 DICKINSON ST

DICKINSON STREET MANAGEMENT LLC BK/PG 13826/0248 Map ID: 039100098 452 DICKINSON ST

DICKINSON STREET MANAGEMENT LLC BK/PG 13826/0248 Map ID: 039100100 458 DICKINSON ST

PARKWOOD APARTMENTS LLC BK/PG 22027/168 Map ID: 039100104 464 DICKINSON ST

KARAISLAN REALTY LLC BK/PG 20231/5571 Map ID: 039100447 (PARCEL 2) 439 DICKINSON ST

KARAISLAN REALTY, LLC BK/PG 2027/557 Map ID: 039100444 (PARCEL 3) DICKINSON ST

SPRINGFIELD HOUSING AUTHORITY BK/PG 2894/147 Map ID: 039100303 DICKINSON ST

SUMNER AVENUE 473–477 LLC BK/PG 22758/383 Map ID: 076800005 LENOX ST

CONTINUED ON SHEET NO. 79

CONTINUED ON SHEET NO. 83

185.38 184.60 184.84 184.62 185.23 185.27 185.53 185.47 185.29 185.20 184.78 184.90 184.93 184.80 184.68 184.26 184.48 184.21 184.53 184.40 184.38 184.33

184.90 184.86 184.87 184.87 184.67 184.95 184.89 184.88 184.88 184.71 184.62 184.48 184.35 184.21 184.09 183.95 183.81 183.67 183.84 183.81

184.55 184.46 184.66 184.72 184.76 184.77 184.69 184.57 184.44 184.32 184.19 184.07 183.93 183.75 183.61 183.65 183.64

184.86 184.82 184.77 184.68 184.54 184.39 184.25 184.13 184.05 183.98 183.89 183.78

PC +99.36 PT +33.15 PC +65.65 704 +99.25 705 706 707 707+59.07

0.79% 0.97% -1.66% -1.50% -1.60% -1.32% -1.06%

184.04 184.19

411 412 413 414

702 703

702+00 702+25 702+50 702+75 703+00 703+25 703+50 703+75 704+00 704+25 704+50 704+75 705+00 705+25 705+50 705+75 706+00 706+25 706+50 706+75 707+00

700+50 700+75 701+00 701+25 701+50 701+75

1921 CITY LAYOUT

N

NAD 83

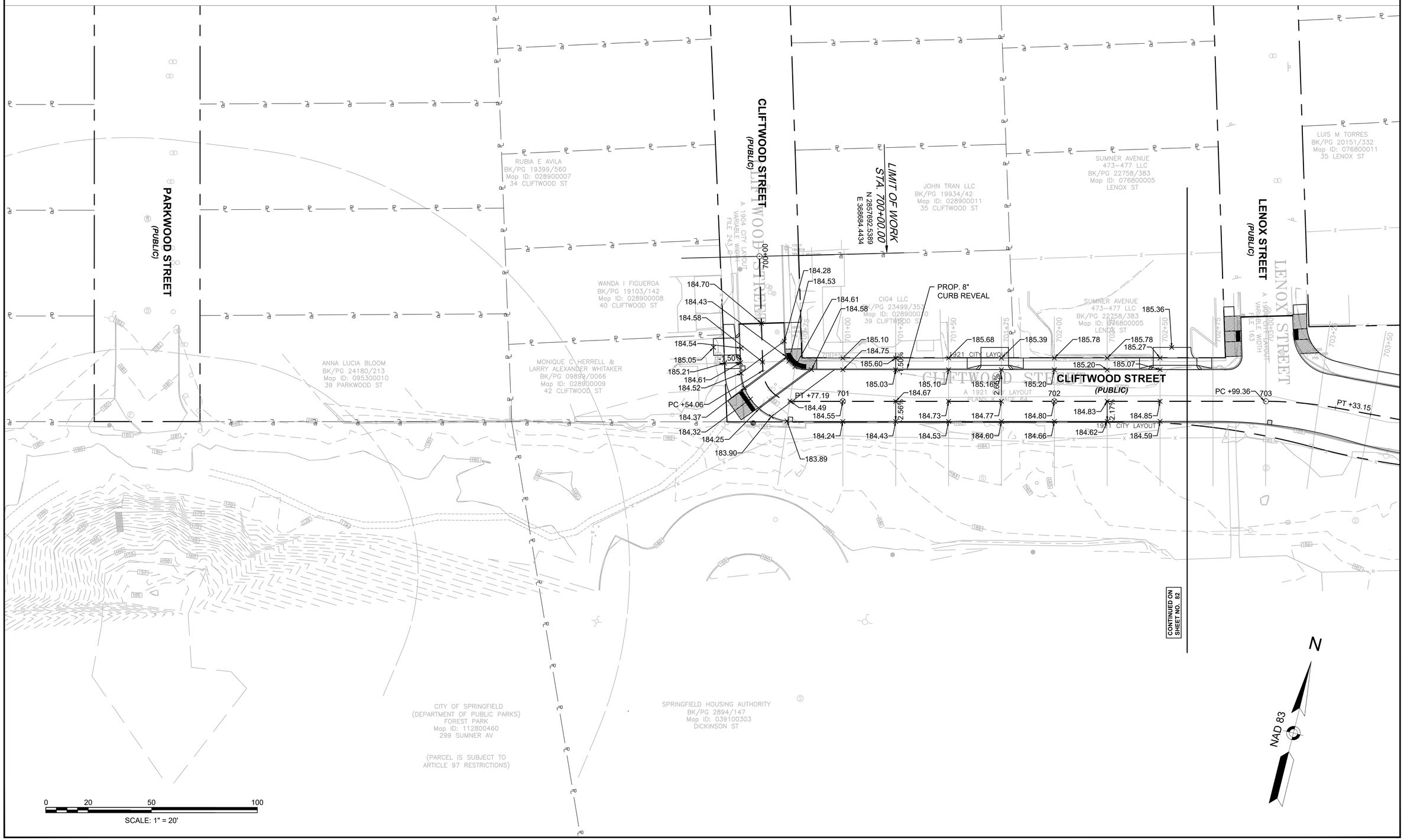
0 20 50 100

SCALE: 1" = 20'

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	83	358
PROJECT FILE NO.	608717		

GRADING PLANS



20121457A70_GRA01.DWG Plotted on 5-May-2023 4:43 PM

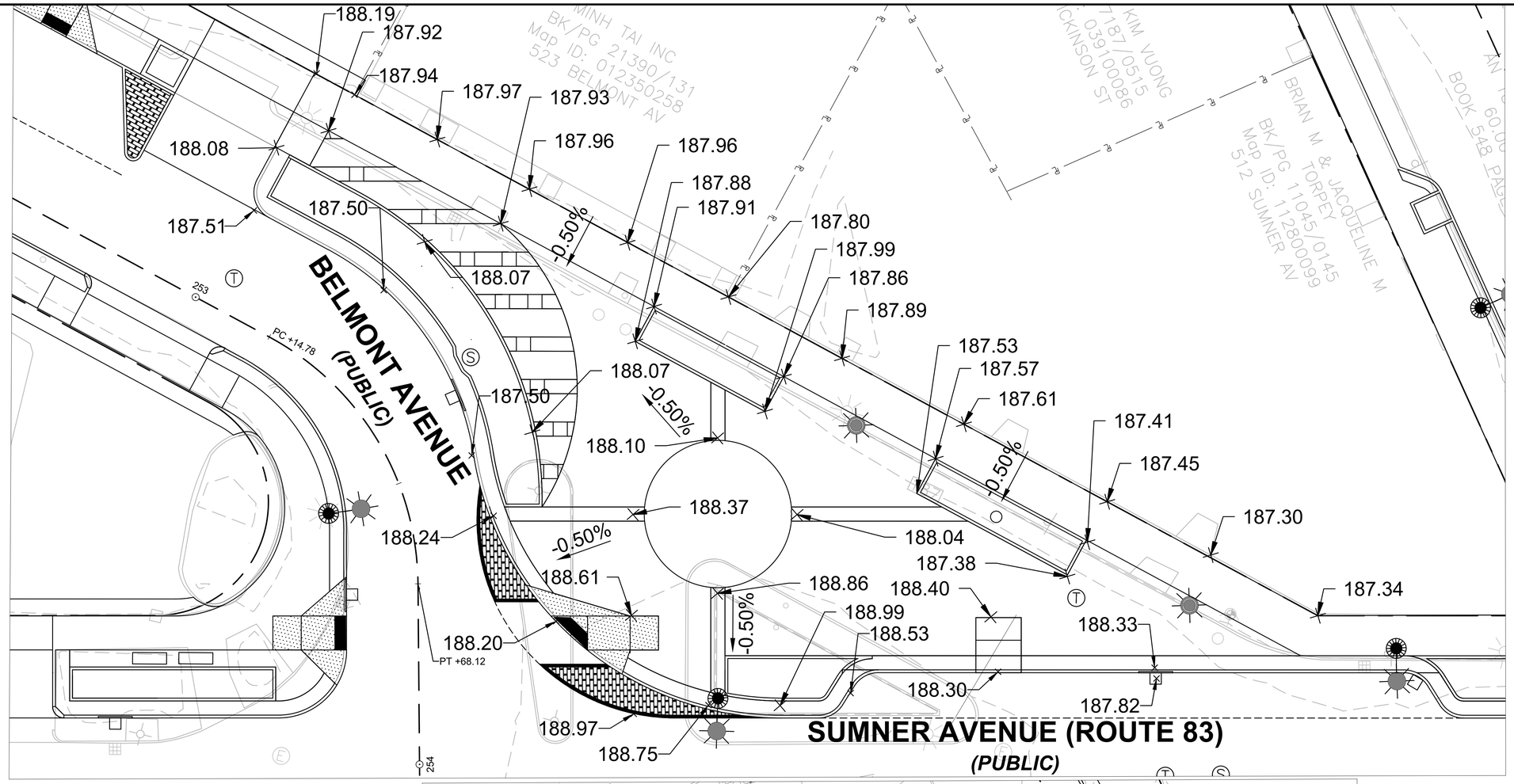
SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	84	358
PROJECT FILE NO.	608717		

GRADING PLANS

20121457A70_GRA01.DWG Plotted on 5-May-2023 4:44 PM

Inset A
SCALE: 1"=10'



Inset B
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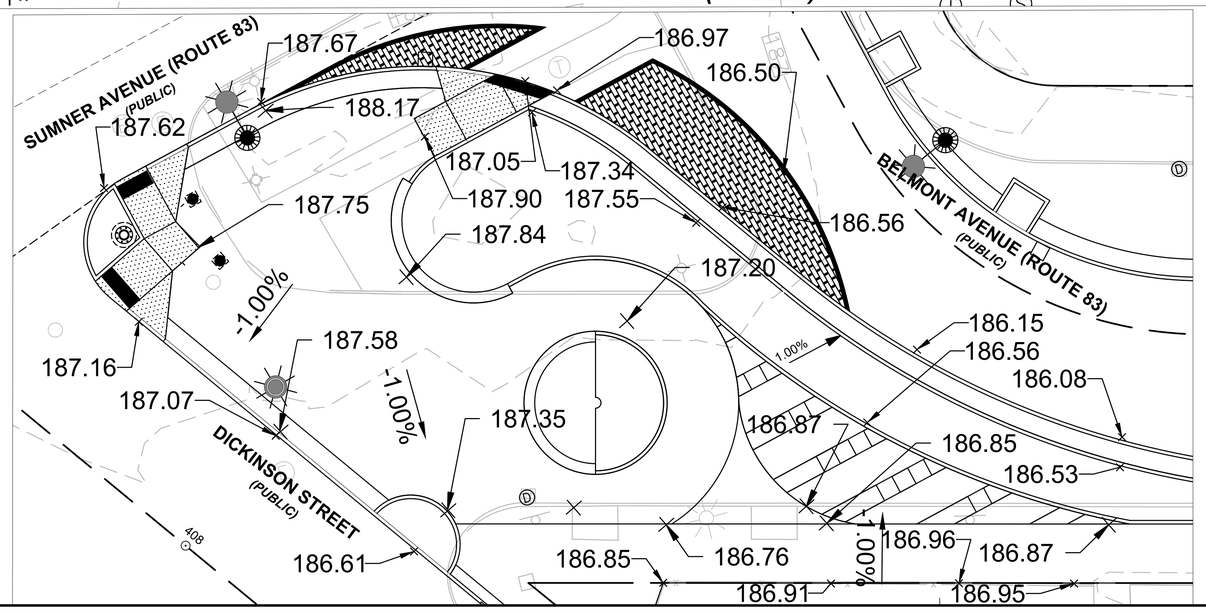


SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	85	358
	PROJECT FILE NO. 608717		

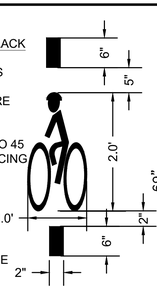
PAVEMENT MARKING & SIGNING PLANS

MARKING LEGEND

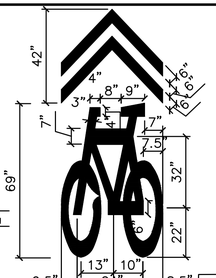
	BICYCLE DETECTOR PAVEMENT MARKING
	PROPOSED SIGN
SL	PROPOSED 12" WHITE STOP LINE
CW	PROPOSED 24" WHITE CROSS WALK
SWL	PROPOSED 6" SOLID WHITE LINE
BWL	PROPOSED 6" BROKEN WHITE LINE (10' MARK - 30' SKIP)
SYL	PROPOSED 6" SOLID YELLOW LINE
BYCL	PROPOSED 6" BROKEN YELLOW CENTER LINE
DBYL	PROPOSED 6" DOUBLE YELLOW LINE
DYL	PROPOSED 6" DOTTED YELLOW CENTER LINE(2' MARK - 6' SKIP)
DWLEx	PROPOSED 6" DOTTED WHITE LINE EXTENSION(2' MARK - 6' SKIP)
YGL	YELLOW GORE LINE - 12" SOLID YELLOW LINE (8' O.C.) @45 DEGREES
YBGL	YELLOW BICYCLE GORE LINE - 6" SOLID YELLOW LINE (3.5' O.C.) @ 45 DEGREES
WGL	WHITE GORE LINE - 6" SOLID WHITE LINE (3.5' O.C.) @ 45 DEGREES
BSL	PROPSED 8" SOLID WHITE BICYCLE STOP LINE

NOTES:

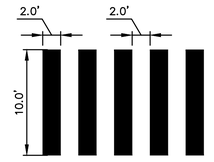
1. ALL STANDARD P-5 SIGN POSTS SHALL BE FACTORY COATED GLOSS BLACK
2. ALL EXISTING SIGNS TO REMAIN UNLESS OTHERWISE NOTED ON PLANS
3. ALL PAVEMENT MARKING LINES ARE TO BE POLYUREA, INCLUDING GORE LINES AND CHEVRONS.
4. YELLOW GORE LINES SHALL FORM AN ANGLE OF APPROXIMATELY 30 TO 45 DEGREES WITH THE LONGITUDINAL LINES THAT THEY INTERSECT. SPACING OF GORE LINES SHALL BE APPROXIMATELY 10 FEET.
5. IN PAVEMENT AREAS OUTSIDE THE MILL & OVERLAY AREA, EXISTING PAVEMENT MARKINGS ARE TO BE REMOVED IN AREAS WHERE NEW PAVEMENT MARKINGS ARE PROPOSED
6. ALL R7 SERIES SIGNS (NO PARKING) SHALL BE INSTALLED AT 45 DEGREE ANGLE RELATIVE TO THE ROADWAY. REFER TO THE SIGN SYMBOLS PLACED ON PLANS
7. SEE SIGN SUMMARY ON SHEETS 103 - 105 FOR SIGN DETAILS
8. CONTRACTOR TO COORDINATE ON PROCUREMENT AND SCHEDULE OF BUS STOP SIGN WORK WITH PVTA OPERATIONS. SIGN POSTS SHALL BE PROVIDED BY CONTRACTOR. PVTA SHALL DETERMINE WHICH BUS STOPS SIGNS SHALL BE REPLACED AND PROVIDED NEW BY PVTA AND WHICH EXISTING BUS STOP SIGNS SHALL BE RELOCATED BY THE CONTRACTOR.



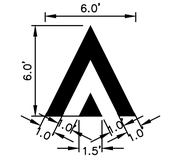
BICYCLE DETECTOR PAVEMENT MARKING
N.T.S



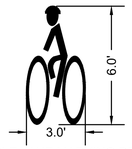
SHARED BICYCLE LANE MARKING DETAIL
N.T.S



CROSSWALK DETAIL
N.T.S



PAINTED WARNING SYMBOL
N.T.S

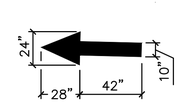


BICYCLE LANE MARKING DETAIL
N.T.S

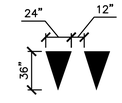
XXXX PROPOSED SIGN DESIGNATION

XXXX EXISTING SIGN DESIGNATION

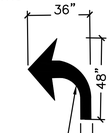
NOTE:
CONTRACTOR SHALL SUPPLY STENCIL TO THE CITY OF SPRINGFIELD DPW.



BICYCLE LANE ARROW MARKING DETAIL
N.T.S



YIELD LINE DETAIL
N.T.S



DIMENSIONS SHALL BE 0.5X THE STANDARD MUTCD ROADWAY SYMBOLS

BICYCLE LANE TURN ARROW MARKING DETAIL
N.T.S

CONTINUED ON SHEET NO. 86

20121457A70_PVT01.DWG Plotted on 5-May-2023 3:53 PM

SEE SHEET 85 FOR MARKING & SIGNING PLAN NOTES

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	86	358
	PROJECT FILE NO. 608717		

PAVEMENT MARKING & SIGNING PLANS

20121457A70_PVT01.DWG Plotted on 5-May-2023 3:53 PM

SUMNER TERRACE (PUBLIC)

1909 CITY LAYOUT

NORTH 83 M3-1 MA-M1-5 (83)

NO PARKING ANY TIME R7-1D

R1-1 RET.

R3-8b

STOP ID #1756 PVTA BUS STOP RET.

1872 CITY LAYOUT

NO PARKING SIGNS RET.

LIBRARY SIGN "TEXT-A-TIP" SIGN R&R ON NEW POLE

STREET NAME SIGNS R10-11b R&S

Oakland St MA-D3-1h (MOUNTED ON MAST POST)

TURNING VEHICLES TO R10-15R (ON MAST ARM)

BIKE ROUTE D11-1 (2 MOUNTED BACK TO BACK)

R3-8h R10-15R

1885 CITY LAYOUT

OAKLAND STREET (PUBLIC)

LEFT TURN YIELD ON FLASHING MA-R10-12a (ON MAST ARM)

ONLY R3-5L (ON MAST ARM)

CONTINUED ON SHEET NO. 100

R4-7

CONTINUED ON SHEET NO. 87

NAD 83

SUMNER AVENUE (ROUTE 83) (PUBLIC)

SUMNER AVENUE (ROUTE (PUBLIC)

SWL BWL DBYL DWLEx YGL SYL

"NO PARKING" SIGN R&S

R3-8a

R7-1D R7-201

PROP. STANDARD THERMOPLASTIC SYMBOLS (ITEM #864.04) (TYP.)

NO TURN ON RED R10-11b (ON SIGNAL POST)

R10-11b R&S

PROP. TRAFFIC SIGNAL MAST ARM AND FOUNDATION (TYP.) (SEE SIGNAL PLANS)

Sumner Ave MA-D3-1g (MOUNTED ON MAST POST)

ROUTE 83 TO 57 Longmeadow W. Springfield 83 SOUTH E. Longmeadow MA-D1-7a

R5-1 R&S

ONE WAY DO NOT ENTER R6-1R/L R5-1

Oakland St MA-D3-1h (MOUNTED ON MAST POST)

"NO PARKING" SIGN R&S

SOUTH 83 M3-3 MA-M1-5 (83)

FOREST PARK

DIRT PATH

MULCH

CONTINUED ON SHEET NO. 85

0 20 50 100

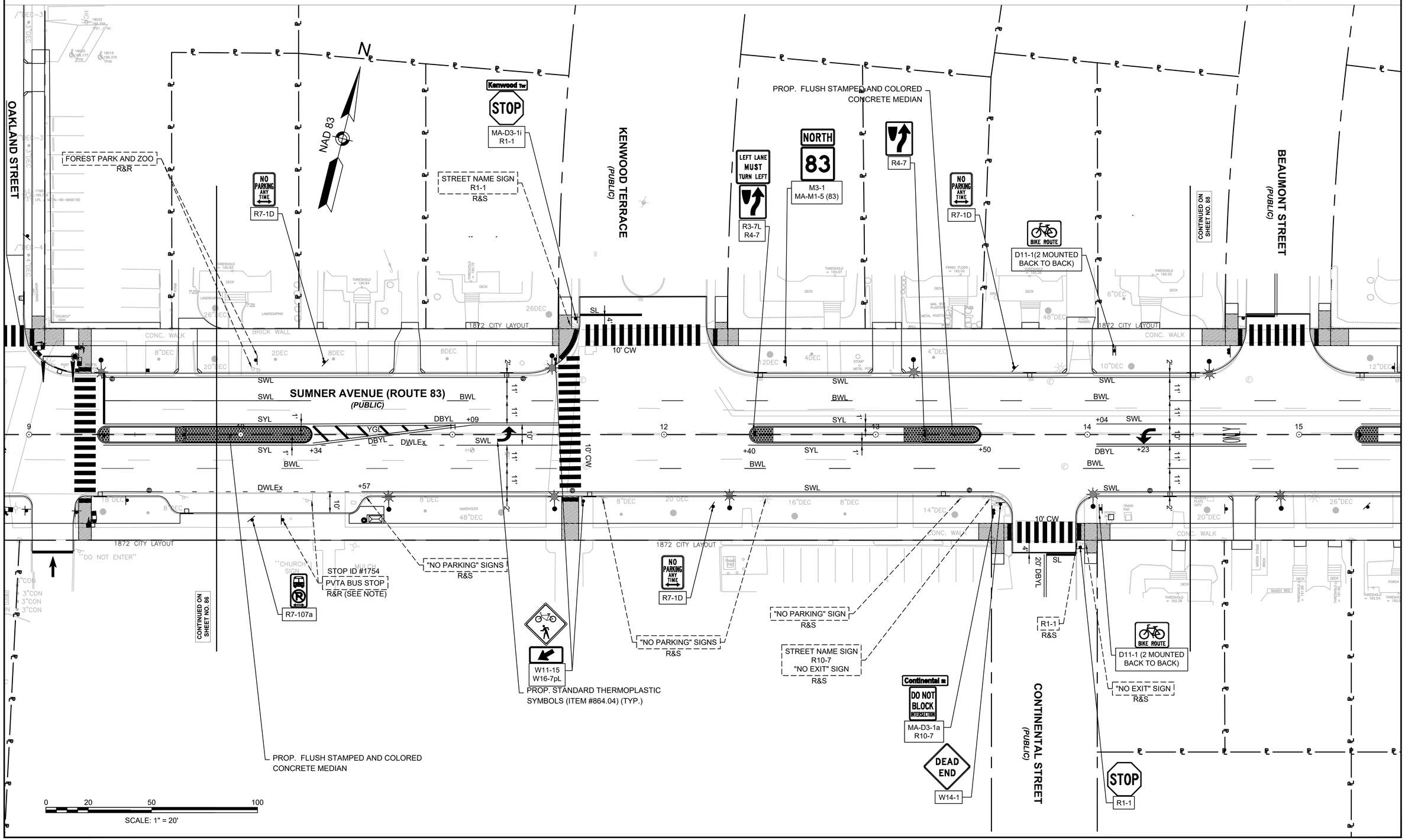
SCALE: 1" = 20'

SEE SHEET 85 FOR MARKING & SIGNING NOTES

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	87	358
PROJECT FILE NO.	608717		

PAVEMENT MARKING & SIGNING PLANS



20121457A70_PVT01.DWG Plotted on 5-May-2023 3:55 PM

SEE SHEET 85 FOR MARKING & SIGNING NOTES

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	88	358
	PROJECT FILE NO. 608717		

PAVEMENT MARKING & SIGNING PLANS

20121457A70_PVT01.DWG Plotted on 5-May-2023 3:55 PM

N

NAD 83

BEAUMONT STREET (PUBLIC)

STREET NAME SIGN R1-1 R&S

Beaumont St MA-D3-1j

STOP R1-1

PROP. FLUSH STAMPED AND COLORED CONCRETE MEDIAN

R4-7

R4-7

STOP ID #1749
PVTA BUS STOP
R&R (SEE NOTE)

NO PARKING ANY TIME R7-1D

NORTH 83 M3-1 MA-M1-5 (83)

NO PARKING ANY TIME R7-1D

PROP. STANDARD THERMOPLASTIC SYMBOLS (ITEM #864.04) (TYP.)

CONTINUED ON SHEET NO. 89

SUMNER AVENUE (ROUTE 83) (PUBLIC)

PROP. BICYCLE LANE TURN ARROW MARKING (TYP.)

"NO PARKING" SIGN R&S

SOUTH 83 M3-3 MA-M1-5 (83)

NO PARKING ANY TIME R7-1D

DO NOT BLOCK INTERSECTION R10-7

STREET NAME SIGN R&S

"NO EXIT" SIGNS R&S

R7-107a

STOP ID #1751
PVTA BUS STOP
R&R (SEE NOTE)

PARKING SIGN

PARKING SIGN RET GUIDE SIGN R&S

R1-1 R&S

BIKE ROUTE D11-1 M6-2L (BIKE)

STOP R1-1

BIKE LANE AHEAD R3-17 R3-17aP

ONLY ONLY ONLY R3-8a

NO PARKING ANY TIME R7-1D

"NO PARKING" SIGN R&S

"NO PARKING" SIGN R2-1 (30) R&S

CONTINUED ON SHEET NO. 87

CONTINENTAL STREET (PUBLIC)

PARKWOOD STREET (PUBLIC)

CLIFTWOOD STREET (PUBLIC)

Parkwood St NO OUTLET MA-D3-1b W14-2aR

0 20 50 100
SCALE: 1" = 20'

SEE SHEET 85 FOR MARKING & SIGNING NOTES

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	89	358
	PROJECT FILE NO. 608717		

PAVEMENT MARKING & SIGNING PLANS

20121457A70_PVT01.DWG Plotted on 5-May-2023 3:57 PM

N
NAD 83
PROP. TRAFFIC SIGNAL MAST ARM AND FOUNDATION (TYP.) (SEE SIGNAL PLANS)
"NO PARKING" SIGN
"1 HR PARKING" SIGN
R&S
BELMONT AVENUE (PUBLIC)
PT +22.94
1922 CITY LAYOUT
CONTINUED ON SHEET NO. 84
ONE WAY R6-1L
R3-2
STOP ID #6288
PVTA BUS STOP
R&R (SEE NOTE)
BIKE LANE R3-17
DO NOT BLOCK INTERSECTION R10-7
"NO PARKING" SIGNS R&S
CONTINUED ON SHEET NO. 90
DICKINSON STREET (PUBLIC)
1896 CITY LAYOUT
PC +14.78
R7-107a
LEFT TURN YIELD ON FLASHING
MA-R10-12a
(ON MAST ARM)
NORTH 83 TO 91 Longmeadow W. Springfield
83 SOUTH E. Longmeadow
MA-D1-7b
TURNING VEHICLES TO
R10-15R
(ON MAST ARM)
BIKE ROUTE
D11-1 M6-1R (BIKE)
"NO PARKING" SIGN
R&S
NO PARKING ANY TIME
R7-1D
R4-7
D6-5 D1-2
SPEED LIMIT 30
R2-1 (30)
Belmont Ave ONE WAY
MA-D3-1l R6-2R
R1-2 R&S
R4-7 R&S
R4-7
R3-2
(ON MAST ARM)
CONC. WALK
1872 CITY LAYOUT
SL
CWL
SWL
SYL
DBYL
BWL
YGL
WGL
DWLEx
10' CW
MULCH
PAVEMENT PATCH
BRICK
"NO PARKING"
"NO PARKING" TRASH
R4-7 R3-4 (BACK TO BACK)
R10-7 R&S
CONTINUED ON SHEET NO. 88
ONE WAY
DO NOT ENTER
R6-1R/L R5-1
SPEED LIMIT 30
R2-1 (30)
"SLOW CHILDREN" SIGN
R&R TO FACE OPPOSITE DIRECTION ON POLE
R6-1L R&S
CLIFTWOOD STREET (PUBLIC)
BIKE LANE R3-17
R3-1
R6-1R R&S
STREET NAME SIGN R&S
Cliftwood St MA-D3-1c
(MOUNTED ON MAST POST)
Sumner Ave MA-D3-1g
(MOUNTED ON MAST POST)
NO TURN ON RED
ONLY
R10-11b R3-8d
R7-107a
2 HR PARKING 8:00 AM TO 6:00 PM
R7-108
PROP. 8' X 20' PARKING STALL (TYP.)
"NO PARKING" SIGN R&S
PROP. BICYCLE LANE TURN ARROW MARKING (TYP.)
PROP. STANDARD THERMOPLASTIC SYMBOLS (ITEM #864.04) (TYP.)
STOP ID #9006
PVTA BUS STOP
R&R (SEE NOTE)
ONLY R3-5L
(ON MAST ARM)
STREET NAME SIGN
"NO PARKING" SIGN
R&S
Lenox St DO NOT BLOCK INTERSECTION MA-D3-1d R10-7
PROP. HIGH FRICTION SURFACE TREATMENT - GREEN (BIKE LANES) (TYP., SEE SPECIAL PROVISIONS)
LENOX STREET (PUBLIC)
R5-1 R&S
83 SOUTH E. Longmeadow Somers, CT SECOND RIGHT Dickinson St NEXT RIGHT
D6-7 D1-1B
ONE WAY R6-2R
ONLY ONLY ONLY
BEGIN RIGHT TURN LANE YIELD TO BIKES
R3-8c R4-4
GUIDE SIGNS R&S
R3-2 R4-7 R&S
"NO PARKING" SIGN R&S
R7-108 R&S
SUMNER AVENUE (ROUTE 83) (PUBLIC)
0 20 50 100
SCALE: 1" = 20'

SEE SHEET 85 FOR MARKING & SIGNING NOTES

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	90	358
PROJECT FILE NO.	608717		

PAVEMENT MARKING & SIGNING PLANS

20121457A70_PVT01.DWG Plotted on 5-May-2023 3:58 PM

R7-107a
STOP ID #1735
PVTA BUS STOP
RET.
R3-1
R&S
MA-D1-7a
"NO PARKING" SIGN
R&S
W11-1
MA-W16-19P
ON ROADWAY
PROP. TRAFFIC SIGNAL MAST ARM AND FOUNDATION (TYP.)
(SEE SIGNAL PLANS)
STOP ID #1738
PVTA BUS STOP
R&R (SEE NOTE)
R10-15R
(ON MAST ARM)
R10-11b
NO TURN ON RED
LEFT TURN YIELD ON FLASHING
MA-R10-12a
(ON MAST ARM)
R10-11b
R3-2
R&S
D1-3
R7-108
R7-108
"NO PARKING" SIGN
R&S
PROP. 8' X 20'
PARKING STALL (TYP.)
R3-8b
R10-6
R&S
D6-8
STREET NAME SIGN
R1-1
R&S
Venture St
MA-D3-1m
STOP
R1-1
"NO PARKING" & "30 MIN PARKING" SIGNS
R&S
PROP. HIGH FRICTION SURFACE TREATMENT - GREEN (BIKE LANES) (TYP., SEE SPECIAL PROVISIONS)
CONTINUED ON SHEET NO. 91
VENTURA STREET
(PUBLIC)
BIKE LANE
R3-17
DO NOT BLOCK INTERSECTION
R10-7
R10-7
R&S
N
NAD 83
DICKINSON STREET
(PUBLIC)
CONTINUED ON SHEET NO. 97
Sumner Ave
Dickinson St
MA-D3-1g
MA-D3-1k
(ON MAST POST)
R10-15R
(ON MAST ARM)
"NO PARKING" SIGN
R&S
R3-2
R4-7
R&S
R10-11b
R3-2
R&S
R3-2
(ON MAST ARM)
PROP. BICYCLE LANE TURN ARROW MARKING (TYP.)
SUMNER AVENUE
(PUBLIC)
R4-7
R3-5L
(ON MAST ARM)
NO TURN ON RED
R10-11b
R4-7
R&S
PROP. STANDARD THERMOPLASTIC SYMBOLS (ITEM #864.04) (TYP.)
"NO PARKING" SIGN
R&S
CONTINUED ON SHEET NO. 89
R10-15R
(ON MAST ARM)
R3-1
R&S
R7-1D
R&S
R3-5L
(ON MAST ARM)
CONTINUED ON SHEET NO. 98
R5-1 & R6-1
R&S
R2-1 (30)
SPEED LIMIT 30
BIKE LANE
R3-17
R10-6
R&S
MA-D3-1l
R6-2R
Belmont Ave
ONE WAY
"RIGHT ON GREEN" SIGN
R&S
R4-7
MA-D1-6b
R7-1D
GUIDE SIGN
MILE MARKER
R2-1 (30)
R&S
BELMONT AVENUE (ROUTE 83)
(PUBLIC)
LEFT TURN YIELD ON FLASHING
MA-R10-12a
(ON MAST ARM)
R7-1D
MA-D1-7b
"NO PARKING" SIGN
R&S
CONTINUED ON SHEET NO. 96
DICKINSON STREET
(PUBLIC)
SCALE: 1" = 20'
0 20 50 100

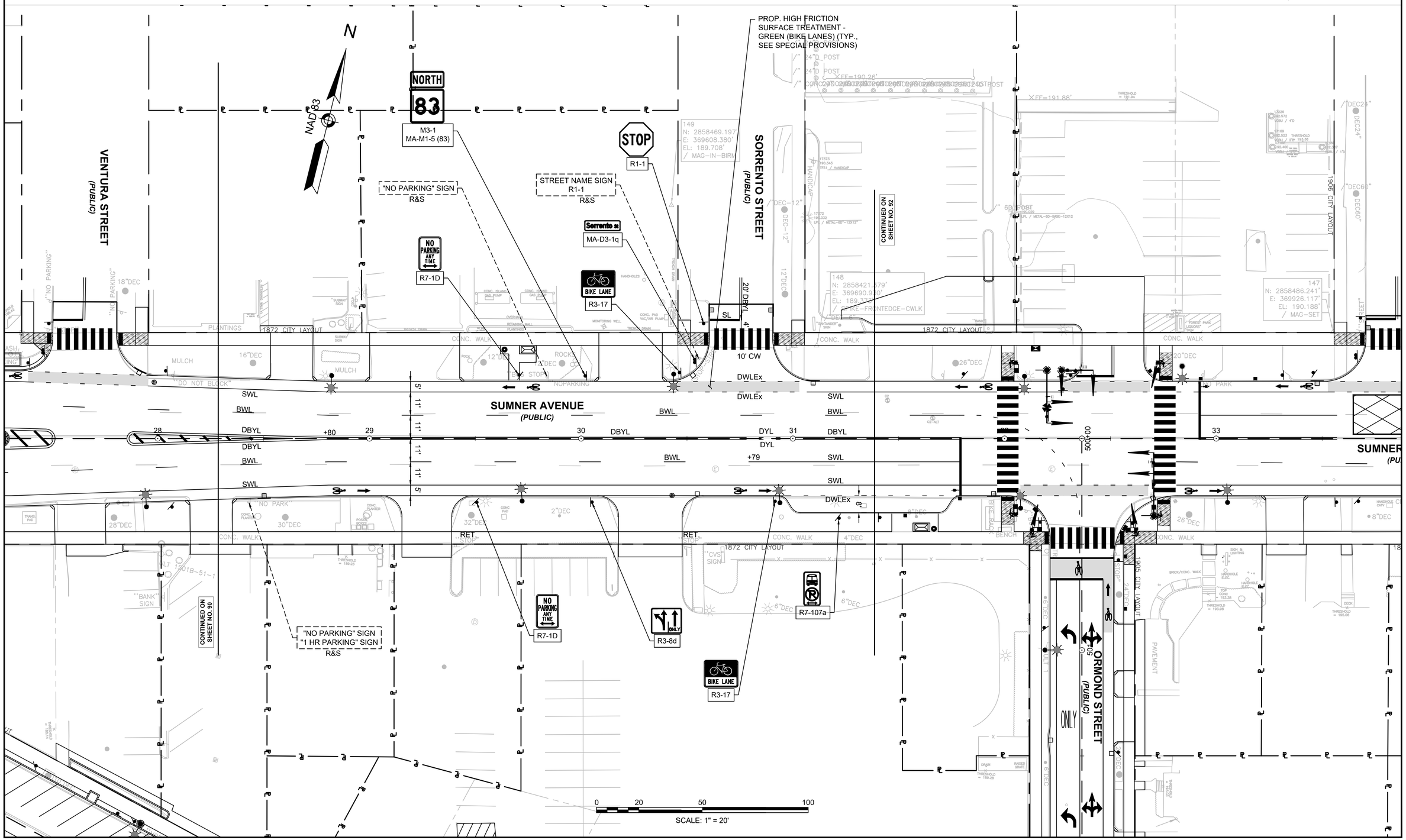
SEE SHEET 85 FOR MARKING & SIGNING NOTES

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	91	358
	PROJECT FILE NO. 608717		

PAVEMENT MARKING & SIGNING PLANS

20121457A70_PVT01.DWG Plotted on 5-May-2023 3:59 PM



SEE SHEET 85 FOR MARKING & SIGNING NOTES

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXX(XXX)X	92	358
PROJECT FILE NO.	608717		

PAVEMENT MARKING & SIGNING PLANS

20121457A70_PVT01.DWG Plotted on 5-May-2023 4:00 PM

N

NAD 83

SORRENTO STREET (PUBLIC)

POMONA STREET (PUBLIC)

SUMNER AVENUE (PUBLIC)

ORMOND STREET (PUBLIC)

DAYTONA STREET (PUBLIC)

DO NOT BLOCK INTERSECTION MARKINGS (SEE DETAIL)

"SEVERE WEATHER" "NO PARKING" SIGN R&S

PROP. TRAFFIC SIGNAL MAST ARM AND FOUNDATION (TYP.) (SEE SIGNAL PLANS)

STREET NAME SIGNS R1-1 R&S

STOP R1-1

END OF PROJECT STA. 35+44.11 N 2858482.686 E 370121.628

STOP ID #1731 PVTA BUS STOP PVTA TO ADVISE ON RELOCATION

STOP ID #1726 PVTA BUS STOP R&R (SEE NOTE)

STOP ID #1733 PVTA BUS STOP R&R (SEE NOTE)

MATCH EXISTING MARKINGS

CONTINUED ON SHEET NO. 99

CONTINUED ON SHEET NO. 91

R3-5L (ON MAST ARM)

R3-2 (ON MAST ARM)

R10-15R

D6-2

MA-D3-1g (MOUNTED ON MAST POST)

MA-D3-1r

MA-D3-1n MA-D3-1g (MOUNTED ON MAST POST)

R7-1D

R3-17

R10-7

W11-2 R&S

R2-1 (30) R&S

R7-107a

R2-1 (30)

R3-8e

R3-17 R3-17aP

R10-12 (ON MAST ARM)

R3-17 R3-17bP

R3-1 (ON MAST ARM)

R6-1R/L R5-1

R1-1 & STREET NAME SIGNS R&S

R10-11b R10-15R

PROP. HIGH FRICTION SURFACE TREATMENT - GREEN (BIKE LANES) (TYP., SEE SPECIAL PROVISIONS)

SCALE: 1" = 20'

PROP. 6 INCH DIAGONAL WHITE THERMOPLASTIC LINES @ 9' O.C. (TYP.)

PROP. 12 INCH WHITE THERMOPLASTIC LINE

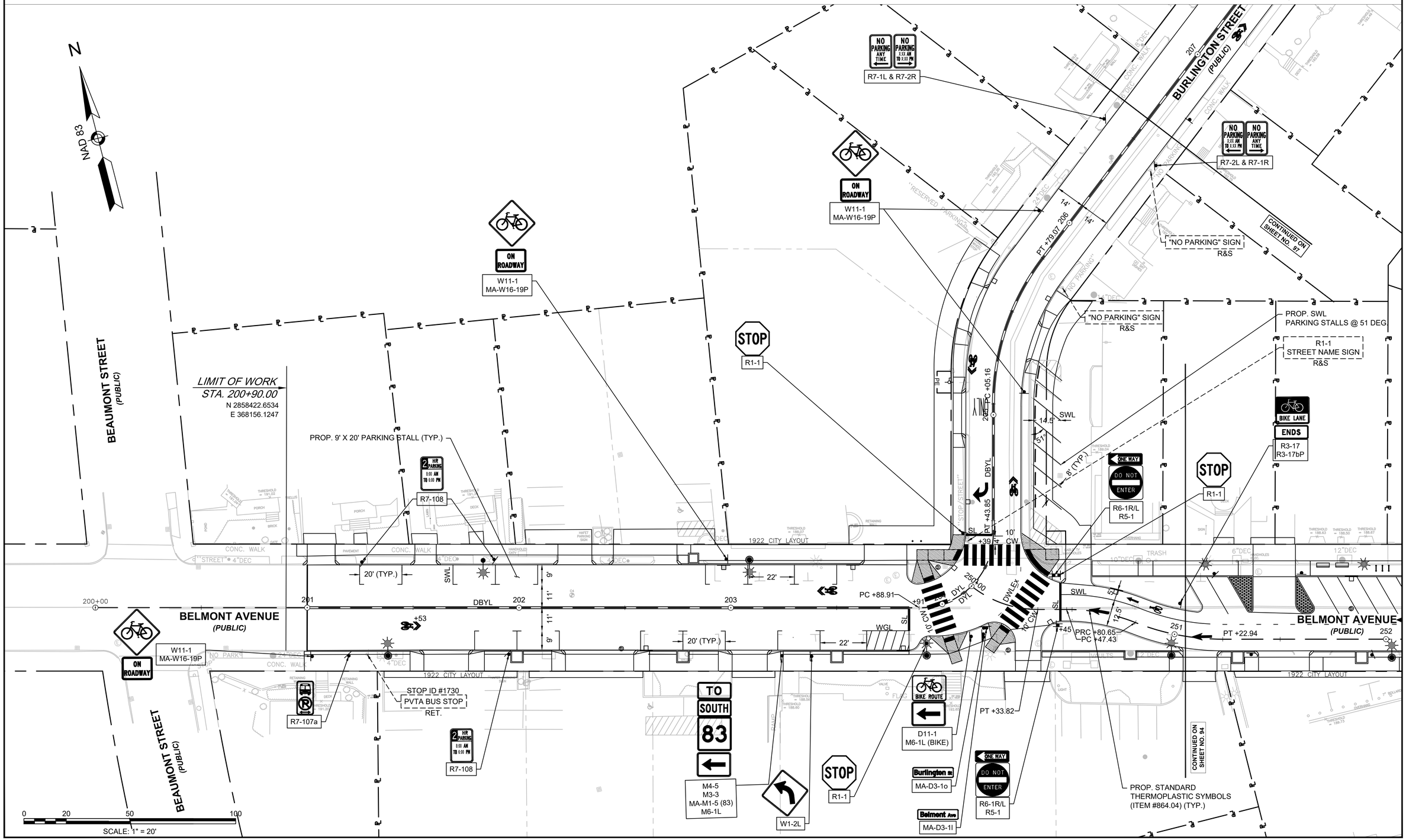
DO NOT BLOCK INTERSECTION MARKINGS
N.T.S

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	93	358
PROJECT FILE NO.	608717		

PAVEMENT MARKING & SIGNING PLANS

SEE SHEET 85 FOR MARKING & SIGNING PLAN NOTES



20121457A70_PVT01.DWG Plotted on 5-May-2023 4:01 PM

SEE SHEET 85 FOR MARKING & SIGNING NOTES

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXX(XXX)X	94	358
	PROJECT FILE NO.	608717	

PAVEMENT MARKING & SIGNING PLANS

20121457A70_PVT01.DWG Plotted on 5-May-2023 4:01 PM

PROP. STANDARD THERMOPLASTIC SYMBOLS (ITEM #864.04) (TYP.)

R7-108 — 2 HR PARKING 8:00 AM TO 6:00 PM

R7-8MA — HANDICAPPED PARKING

R6-1L — ONE WAY

R6-1R — ONE WAY

R7-1D — NO PARKING ANY TIME

STOP ID #1737
PVTA BUS STOP
R&S

PROP. 20' X 8' PARKING STALL @ 60 DEG. (TYP.)

DICKINSON STREET (PUBLIC)

BELMONT AVENUE (PUBLIC)

SUMNER AVENUE (ROUTE 83) (PUBLIC)

LENOX STREET (PUBLIC)

PT +79.07
PC +05.16
PT +43.85
PC +88.91
PRC +80.65
PC +47.43
PT +33.82
PT +22.94
PC +14.78
PT +33.80

CONTINUED ON SHEET NO. 93

CONTINUED ON SHEET NO. 89

N
NAD 83

0 20 50 100
SCALE: 1" = 20'

SEE SHEET 85 FOR MARKING & SIGNING NOTES

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	95	358
	PROJECT FILE NO. 608717		

PAVEMENT MARKING & SIGNING PLANS

20121457A70_PVT01.DWG Plotted on 5-May-2023 4:02 PM

SUMNER AVENUE (PUBLIC)
DICKINSON STREET (PUBLIC)
BELMONT AVENUE (ROUTE 83) (PUBLIC)
COMMONWEALTH AVENUE (PUBLIC)
TRENTON STREET (PUBLIC)
LIMIT OF WORK STA. 901+00.00 N 2957920.9642 E 369649.8683
PC +73.91
PT +34.10
PC +71.35
CONTINUED ON SHEET NO. 90
CONTINUED ON SHEET NO. 96
PROP. 8.5' X 20' PARKING STALLS (TYP.)
PROP. 8' X 22' PARKING STALLS (TYP.)
PROP. SWL 8' X 22' PARKING STALLS (TYP.)
PROP. STANDARD THERMOPLASTIC SYMBOLS (ITEM #864.04) (TYP.)
PROP. BICYCLE LANE TURN ARROW MARKING (TYP.)
PROP. YIELD LINES (TYP.)
STOP ID #1747 PVTA BUS STOP R&S
STOP ID #1741 PVTA BUS STOP R&R (SEE NOTE)
"NO PARKING" SIGN R&S
"NO PARKING" SIGN RET.
STREET NAME SIGNS R&S
SCALE: 1" = 20'
N NAD 83

SEE SHEET 85 FOR MARKING & SIGNING NOTES

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	96	358
	PROJECT FILE NO. 608717		

PAVEMENT MARKING & SIGNING PLANS

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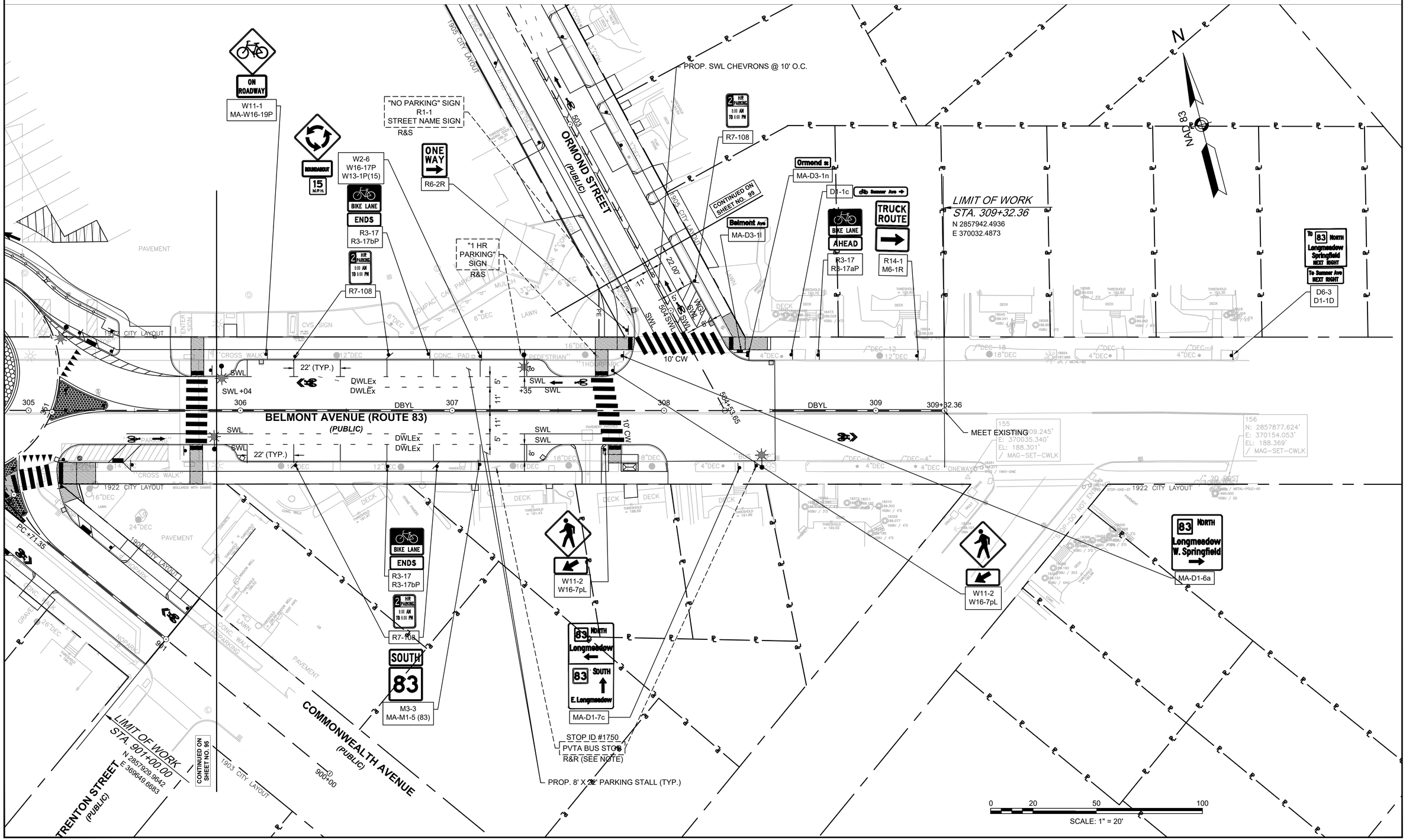

SEE SHEET 85 FOR MARKING & SIGNING NOTES

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXX(XXX)X	97	358
	PROJECT FILE NO. 608717		

PAVEMENT MARKING & SIGNING PLANS

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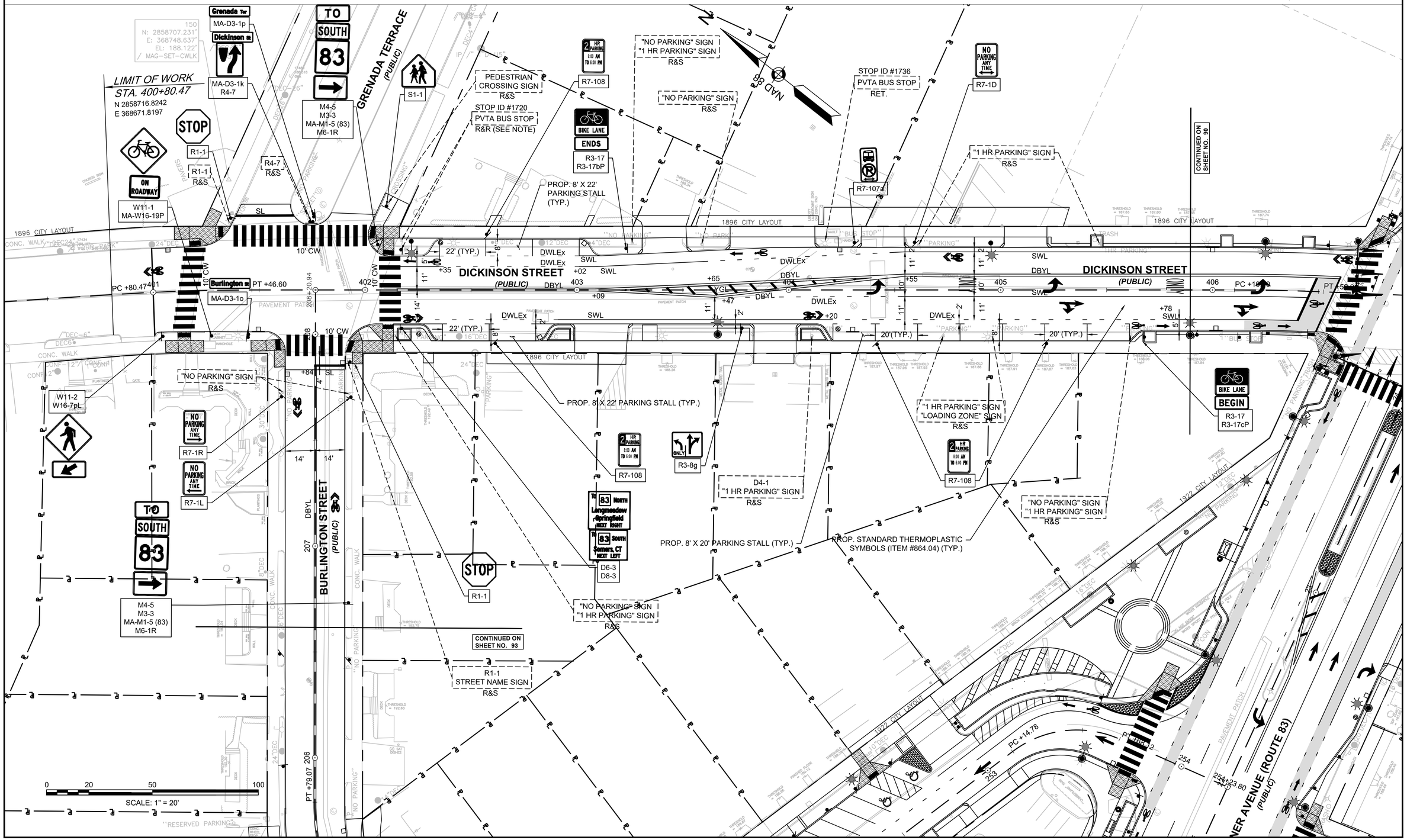


SEE SHEET 85 FOR MARKING & SIGNING NOTES

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	98	358
	PROJECT FILE NO. 608717		

PAVEMENT MARKING & SIGNING PLANS

20121457A70_PVT01.DWG Plotted on 5-May-2023 4:06 PM

SUMNER AVENUE (PUBLIC)
DICKINSON STREET (PUBLIC)
TRENTON STREET (PUBLIC)
CLIFTWOOD STREET (PUBLIC)
PC +73.91
PT +34.10
LIMIT OF WORK STA. 413+51.42
N 2857703.1809
E 369437.9214
NAD 83
1922 CITY LAYOUT
1921 CITY LAYOUT
"NO PARKING" SIGN & R7-108 R&S
R3-8g
R7-1D
R1-1 RET.
R3-17
R7-107a
STOP ID #1762
PVTA BUS STOP R&R
D6-4
R7-108
"NO PARKING" SIGN R&S
PROP. 8' X 20' PARKING STALL (TYP.)
W11-2 W16-7pL
R1-1
R1-1 R&S
20' DBYL
BIKE LANE AHEAD
R3-17 R3-17aP
STREET NAME SIGN R&S
MA-D3-1e Trenton
STOP ID #1746
PVTA BUS STOP R&R (SEE NOTE)
R7-1D R&S
W11-2 R&S
PROP. 8' X 22' INTERIOR PARKING STALL (TYP.)
BIKE LANE ENDS
R3-17 R3-17bP
"NO PARKING" SIGN R&S
CONTINUED ON SHEET NO. 90
CONTINUED ON SHEET NO. 101
STOP ID #1760
PVTA BUS STOP RET.
"SENIOR XING" SIGN R&R
Dickinson
MA-D3-1k
STREET NAME SIGN & "SUMNER/BELMONT WESTBOUND" SIGN R&S
Cliftwood
MA-D3-1c
NO PARKING ANY TIME
R7-1R
ON ROADWAY
W11-1 MA-W16-19P
142
N: 2857730.444'
E: 369243.029'
EL: 184.306'
HUB-TACK
SCALE: 1" = 20'

SEE SHEET 85 FOR MARKING & SIGNING NOTES

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	99	358
	PROJECT FILE NO. 608717		

PAVEMENT MARKING & SIGNING PLANS

20121457A70_PVT01.DWG Plotted on 5-May-2023 4:07 PM

NAD 83

LIMIT OF WORK
STA. 309+32.36
N 2857942.4936
E 370032.4873

PROP. HIGH FRICTION SURFACE TREATMENT - GREEN (BIKE LANES) (TYP., SEE SPECIAL PROVISIONS)

PROP. STANDARD THERMOPLASTIC SYMBOLS (ITEM #864.04) (TYP.)

PROP. SWL CHEVRONS @ 10' O.C.

"NO PARKING" SIGN R&S

R7-1D

R3-8f

R3-17

R7-1L

R7-108

R6-1L

R1-1 RET.

D6-4

CONTINUED ON SHEET NO. 92

CONTINUED ON SHEET NO. 96

ORMOND STREET *(PUBLIC)*

SUMNER AVENUE *(PUBLIC)*

MAIN STREET *(PUBLIC)*

FRONT AVENUE (ROUTE 83) *(PUBLIC)*

147 N: 2858486.241' E: 369926.117' EL: 190.188' / MAG–SET

148 N: 2858421.379' E: 369690.930' EL: 189.373' SPIKE–FRONTEDGE–CWLK

155 N: 2857909.245' E: 370035.340' EL: 188.301' MAG–SET–CWLK

0 20 50 100

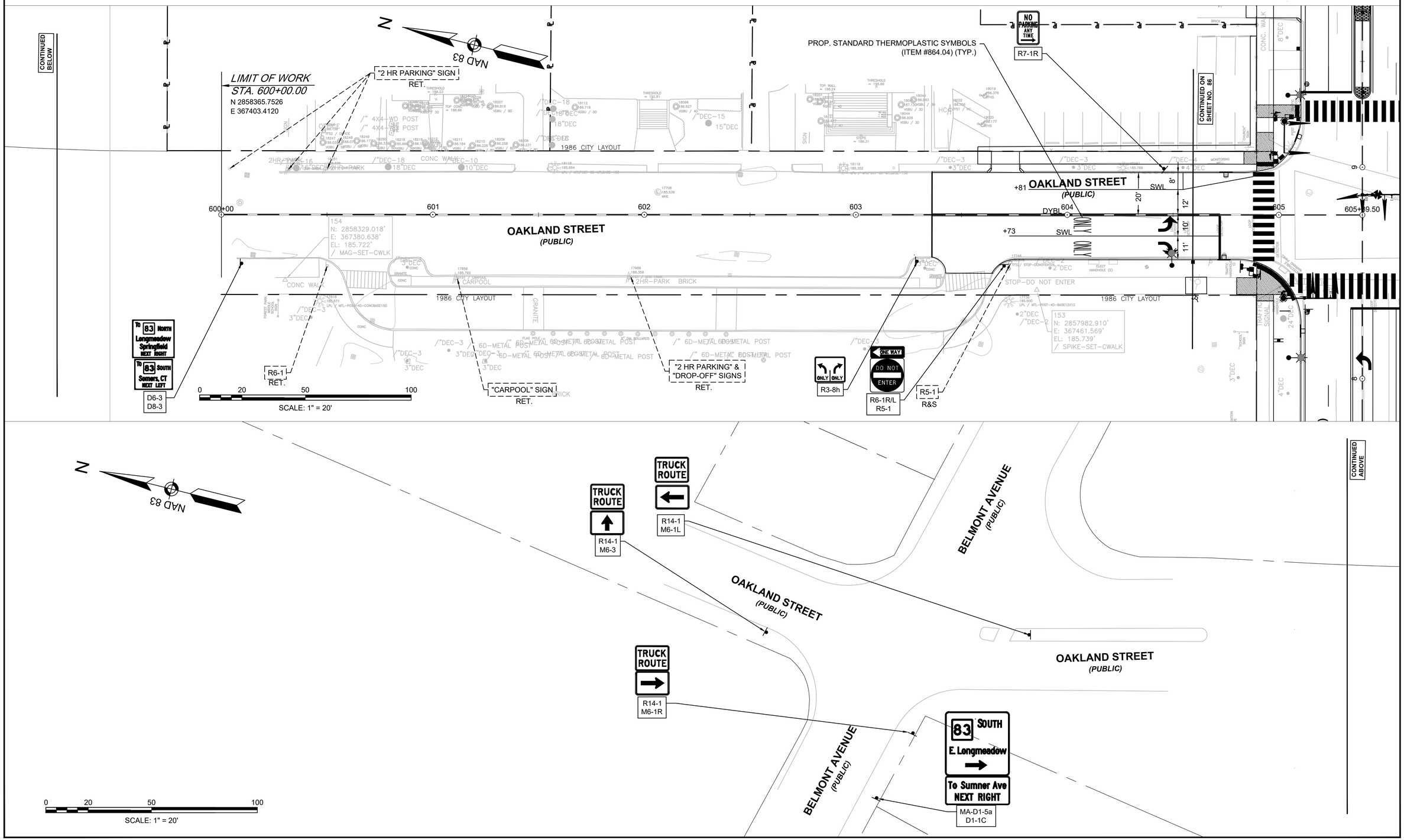
SCALE: 1" = 20'

SEE SHEET 85 FOR MARKING & SIGNING NOTES

SPRINGFIELD
THE 'X' INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	100	358
PROJECT FILE NO.	608717		

PAVEMENT MARKING & SIGNING PLANS



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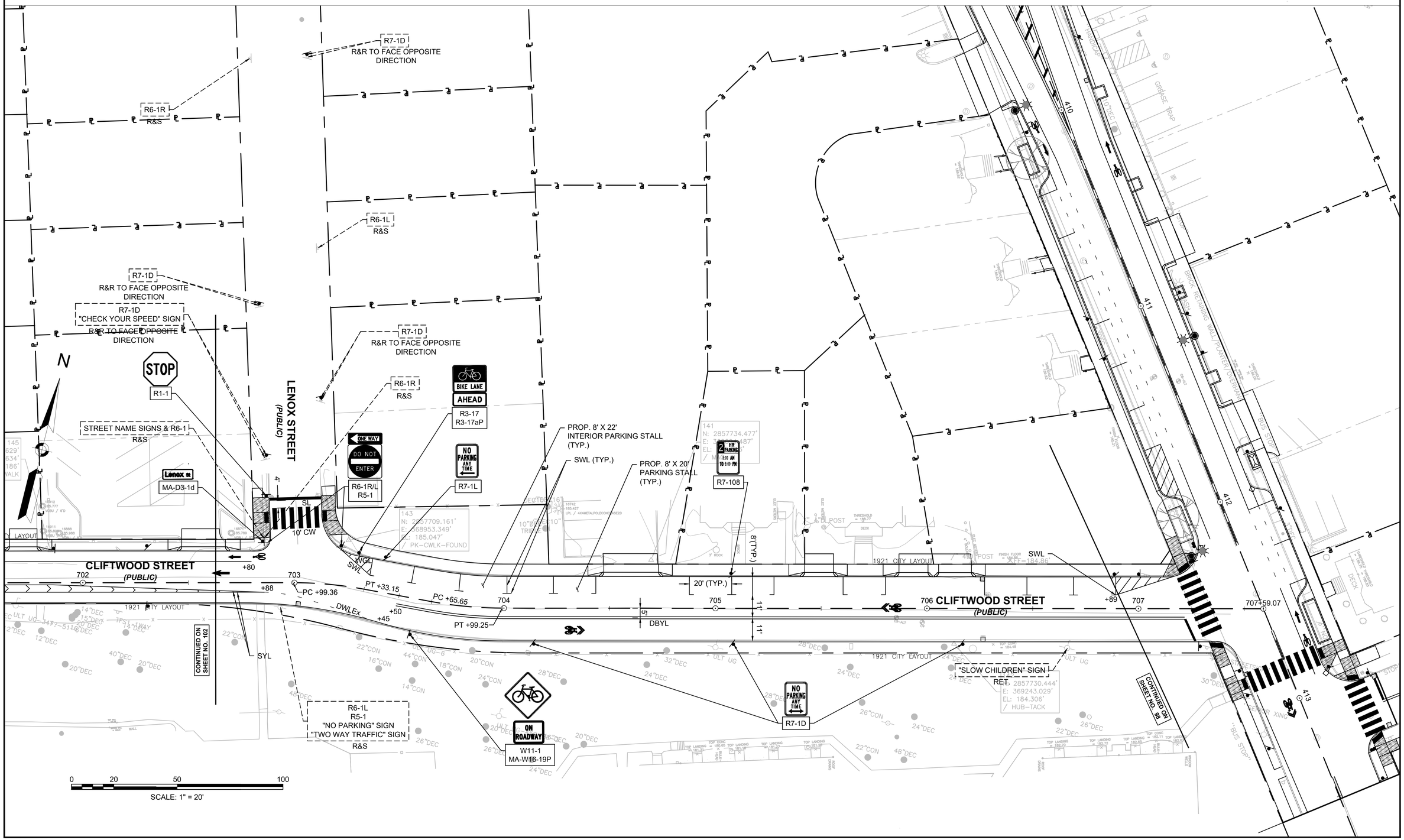
20121457A70_PVT01.DWG

SEE SHEET 85 FOR MARKING & SIGNING NOTES

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	101	358
PROJECT FILE NO.	608717		

PAVEMENT MARKING & SIGNING PLANS



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Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: MADOT-D.STB
MS VIEW:- LAYER STATE:-

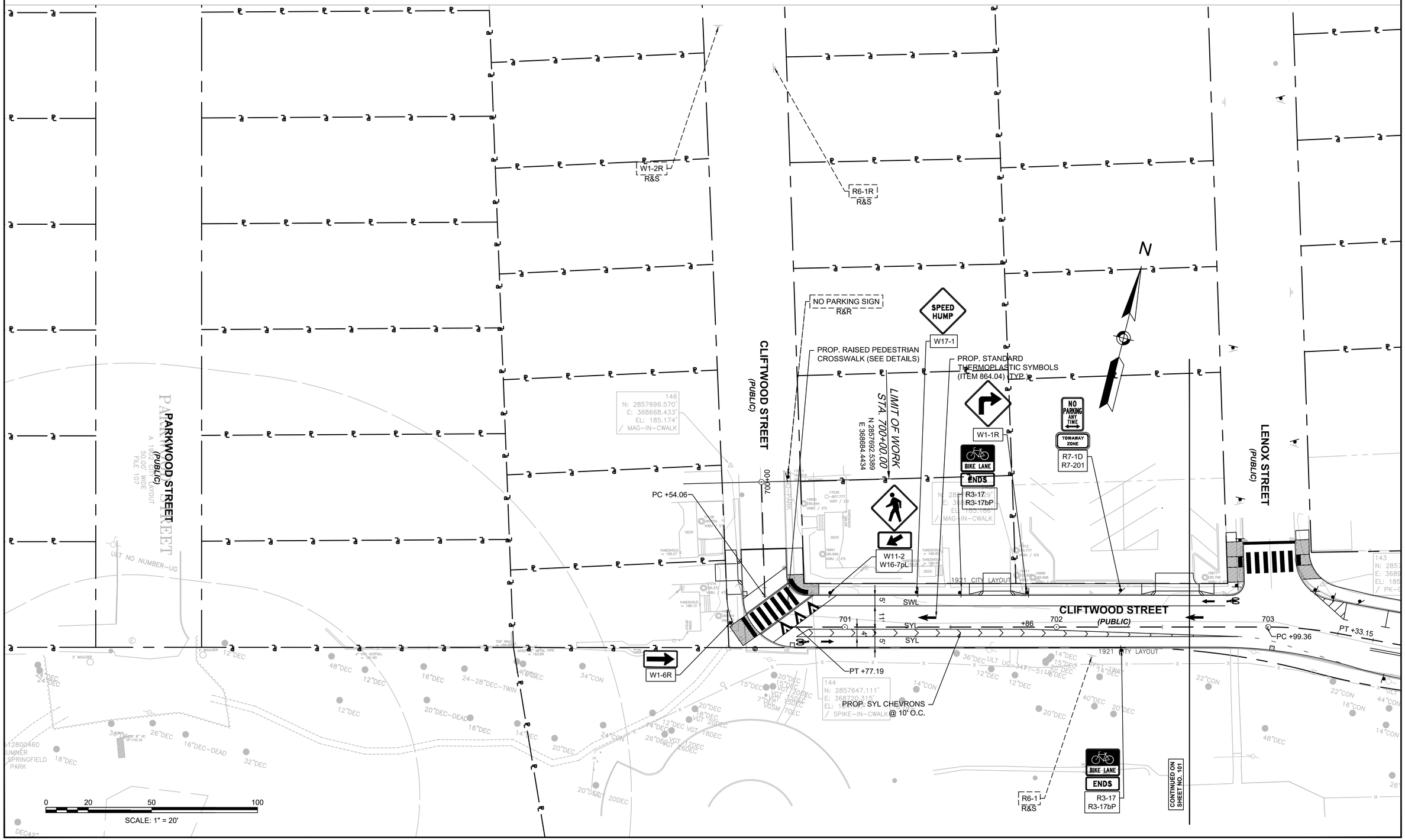
20121457A70_PVT01.DWG Plotted on 5-May-2023 4:08 PM

SEE SHEET 85 FOR MARKING & SIGNING NOTES

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	102	358
PROJECT FILE NO.	608717		

PAVEMENT MARKING & SIGNING PLANS



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MS VIEW:- LAYER STATE:-

20121457A70_PVT01.DWG Plotted on 5-May-2023 4:09 PM

NOTES:
HIGH INTENSITY ENCAPSULATED LENS REFLECTIVE SHEETING SHALL BE USED FOR ALL SIGNS. THE 2009 "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", THE 1990 MDPW "STANDARD DRAWINGS FOR SIGNS AND SUPPORTS", AND ALL ADMENDMENTS WILL GOVERN.

ALL P5 SIGN POSTS SHALL BE FACTORY COATED GLOSS BLACK
(PBS) = PAINTED BOTH SIDES

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	103	358
PROJECT FILE NO.	608717		

TRAFFIC SIGN SUMMARY

IDENTIFICATION NUMBER	SIZE OF SIGN WIDTH (IN)	SIZE OF SIGN HEIGHT (IN)	TEXT	TEXT DIMENSIONS (in) LETTER HEIGHT	TEXT DIMENSIONS (in) VERTICAL SPACING	TEXT DIMENSIONS (in) ARROW RTE. MKR.	NUMBER OF SIGNS REQUIRED	COLOR BACK-GROUND	COLOR LEGEND	COLOR BORDER	POST SIZE AND NUMBER REQUIRED	SIGN FACE AREA (S.F.)	TOTAL AREA (S.F.)
R1-1	30	30	STOP	SEE 2009 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (INCLUDING LATEST REVISION)			18	WHITE	RED	RED	P-5 18 REQ'D	6.25	112.50
R1-2	36	36	YIELD				4	WHITE	RED	RED	P-5 4 REQ'D	4.50	22.50
R1-5L	18	18	HERE TO				2	WHITE	BLACK/RED	BLACK	P-5 2 REQ'D	2.25	9.00
R2-1 (30)	24	30	SPEED LIMIT 30				4	WHITE	BLACK	BLACK	P-5 4 REQ'D	5.00	20.00
R2-1 (35)	24	30	SPEED LIMIT 35				2	WHITE	BLACK	BLACK	P-5 2 REQ'D	5.00	10.00
R3-1	24	24					3	WHITE	RED/ BLACK	BLACK	2 O'HEAD MOUNT P-5 1 REQ'D	4.00	12.00
R3-2	24	24					4	WHITE	RED/ BLACK	BLACK	3 O'HEAD MOUNT P-5 1 REQ'D	4.00	16.00
R3-4	24	24					1	WHITE	RED/ BLACK	BLACK	MOUNTED W/ R4-7	4.00	4.00
R3-5L	30	36	ONLY				5	WHITE	BLACK	BLACK	O'HEAD MOUNT	7.50	45.00
R3-7L	30	30	LEFT LANE MUST TURN LEFT				1	WHITE	BLACK	BLACK	P-5 2 REQ'D	6.25	6.25
R3-8a	48	30	ONLY ONLY ONLY				2	WHITE	BLACK	BLACK	P-5 2 REQ'D	10.00	20.00
R3-8b	54	30	ONLY ONLY				2	WHITE	BLACK	BLACK	P-5 6 REQ'D	11.25	33.75
R3-8c	48	30	ONLY ONLY ONLY				1	WHITE	BLACK	BLACK	P-5 2 REQ'D	10.00	10.00
R3-8d	36	30	ONLY				2	WHITE	BLACK	BLACK	P-5 1 REQ'D 1 W/ R10-11b	7.50	15.00
R3-8e	36	30	ONLY				1	WHITE	BLACK	BLACK	P-5 1 REQ'D	7.50	7.50
R3-8f	48	30	ONLY				1	WHITE	BLACK	BLACK	P-5 1 REQ'D	10.00	10.00
R3-8g	48	30					2	WHITE	BLACK	BLACK	P-5 2 REQ'D	10.00	20.00
R3-8h	36	30	ONLY ONLY	SEE 2009 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (INCLUDING LATEST REVISION)			2	WHITE	BLACK	BLACK	P-5 2 REQ'D	7.50	15.00
R3-17	24	18	BIKE LANE				28	WHITE	BLACK	BLACK	P-5 28 REQ'D	3.00	81.00
R3-17aP	24	8	AHEAD				6	WHITE	BLACK	BLACK	MOUNTED WITH R3-17	1.33	6.67
R3-17bP	24	8	ENDS				10	WHITE	BLACK	BLACK	MOUNTED WITH R3-17	1.33	13.33
R3-17cP	24	8	BEGIN				1	WHITE	BLACK	BLACK	MOUNTED WITH R3-17	1.33	1.33
R4-4	36	30	BEGIN RIGHT TURN LANE YIELD TO BIKES				1	WHITE	BLACK	BLACK	MOUNTED WITH R3-8c	7.50	7.50
R4-7	24	30					13	WHITE	BLACK	BLACK	P-5 11 REQ'D 1 MOUNTED WITH R3-7L 1 W/ MA-D3-1	5.00	80.00
R5-1	30	30	DO NOT ENTER				9	WHITE	RED	RED	P-5 9 REQ'D	6.25	68.75
R6-1R/L (PBS)	36	12	ONE WAY				8	BLACK	BLACK	WHITE	MOUNTED WITH R5-1	3.00	33.00
R6-1R	36	12	ONE WAY				3	BLACK	BLACK	WHITE	P-5 3 REQ'D	3.00	6.00
R6-1L	36	12	ONE WAY				3	BLACK	BLACK	WHITE	P-5 3 REQ'D	4	9.00
R6-2R	24	30	ONE WAY				4	BLACK	BLACK	WHITE	P-5 4 REQ'D	5.00	20.00
R6-4	30	24					1	WHITE	BLACK	BLACK	P-5 1 REQ'D	5.00	15.00
R7-1D	12	18	NO PARKING ANY TIME				27	WHITE	RED	RED	P-5 27 REQ'D	1.50	46.50
R7-1L	12	18	NO PARKING ANY TIME				4	WHITE	RED	RED	P-5 4 REQ'D	1.50	6.00
R7-1R	12	18	NO PARKING ANY TIME				4	WHITE	RED	RED	P-5 4 REQ'D	1.50	6.00
R7-2L	12	18	NO PARKING X:XX AM TO X:XX PM				1	WHITE	RED	RED	MOUNTED WITH R7-1R	1.50	1.50

20121457A70_SIGNSUM01.DWG Plotted on 5-May-2023 4:16 PM

NOTES:
HIGH INTENSITY ENCAPSULATED LENS REFLECTIVE SHEETING SHALL BE USED FOR ALL SIGNS. THE 2009 "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", THE 1990 MDPW "STANDARD DRAWINGS FOR SIGNS AND SUPPORTS", AND ALL ADMENDMENTS WILL GOVERN.

ALL P5 SIGN POSTS SHALL BE FACTORY COATED GLOSS BLACK
(PBS) = PAINTED BOTH SIDES

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	104	358
PROJECT FILE NO.	608717		

TRAFFIC SIGN SUMMARY

IDENTIFICATION NUMBER	SIZE OF SIGN WIDTH (IN)	SIZE OF SIGN HEIGHT (IN)	TEXT	TEXT DIMENSIONS (in) LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.	NUMBER OF SIGNS REQUIRED	COLOR BACK-GROUND	COLOR LEGEND	COLOR BORDER	POST SIZE AND NUMBER REQUIRED	SIGN FACE AREA (S.F.)	TOTAL AREA (S.F.)
R7-2R	12	18	NO PARKING XXX AM TO XXX PM	SEE 2009 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (INCLUDING LATEST REVISION)			1	WHITE	RED	RED	MOUNTED WITH R7-1L	1.50	1.50
R7-8MA	12	18	HANDICAPPED PARKING				2	BLUE	WHITE	WHITE	P-5 2 REQ'D	1.50	6.00
R7-107A	12	30					15	WHITE	RED/ BLACK	RED	P-5 15 REQ'D	2.50	37.50
R7-108 (2hr)	12	18	2 HR PARKING 8:00 AM TO 6:00 PM				18	WHITE	GREEN	GREEN	P-5 18 REQ'D	1.50	37.50
R7-201	12	6	TOW-AWAY ZONE				4	WHITE	RED	RED	MOUNTED WITH R7-1D	0.50	2.50
R10-7	24	30	DO NOT BLOCK INTERSECTION				6	WHITE	BLACK	BLACK	P-5 4 REQ'D 2 MOUNTED WITH MA-D3-1	5.00	30.00
R10-11b	24	24	NO TURN ON RED				6	WHITE	BLACK	BLACK	P-5 4 REQ'D 1 MOUNTED ON PED POLE 1 W/ R10-15R	4.00	24.00
R10-12	30	36	LEFT TURN YIELD ON GREEN				5	WHITE	BLACK/ GREEN	BLACK	O'HEAD MOUNT	7.50	7.50
R10-15R	30	30	TURNING VEHICLES TO				9	WHITE	YELLOW/ BLACK	BLACK	P-5 2 REQ'D 6 O'HEAD MOUNT 1 MOUNTED WITH R3-8h	6.25	62.50
R14-1	24	18	TRUCK ROUTE				4	WHITE	BLACK	BLACK	P-5 4 REQ'D	3.00	12.00
MA-M1-5 (83)	24	24	83	SEE 2016 MASSDOT STANDARD SIGNS BOOK			14	WHITE	BLACK	BLACK	P-5 14 REQ'D	4.00	56.00
MA-R10-12a	30	36	LEFT TURN YIELD ON FLASHING				4	WHITE	BLACK/ YELLOW	BLACK	O'HEAD MOUNT	7.50	37.50
M3-1	24	12	NORTH	SEE 2009 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (INCLUDING LATEST REVISION)			5	WHITE	BLACK	BLACK	MOUNTED WITH MA-M1-5 (83)	2.00	10.00
M3-3	24	12	SOUTH				9	WHITE	BLACK	BLACK	MOUNTED WITH MA-M1-5 (83)	2.00	18.00
M4-5	24	12	TO				3	WHITE	BLACK	BLACK	MOUNTED WITH MA-M1-5 (83)	2.00	6.00
M6-1R	21	15					4	WHITE	BLACK	BLACK	2 MOUNTED W R14-1 2 MOUNTED WITH MA-M1-5 (83)	2.19	8.76
M6-1R (BIKE)	12	9					7	GREEN	WHITE	WHITE	MOUNTED WITH D11-1	0.75	5.25

IDENTIFICATION NUMBER	SIZE OF SIGN WIDTH (IN)	SIZE OF SIGN HEIGHT (IN)	TEXT	TEXT DIMENSIONS (in) LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.	NUMBER OF SIGNS REQUIRED	COLOR BACK-GROUND	COLOR LEGEND	COLOR BORDER	POST SIZE AND NUMBER REQUIRED	SIGN FACE AREA (S.F.)	TOTAL AREA (S.F.)
M6-1L	21	15		SEE 2009 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (INCLUDING LATEST REVISION)			2	WHITE	BLACK	BLACK	1 MOUNTED W R14-1 1 MOUNTED WITH MA-M1-5 (83)	2.19	4.38
M6-1L (BIKE)	12	9					4	GREEN	WHITE	WHITE	MOUNTED WITH D11-1	0.75	3.00
M6-2R	21	15					1	WHITE	BLACK	BLACK	MOUNTED WITH MA-M1-5 (83)	2.19	2.19
M6-2L	21	15					1	WHITE	BLACK	BLACK	MOUNTED WITH D11-1	2.19	2.19
M6-3	21	15					1	WHITE	BLACK	BLACK	MOUNTED WITH R14-1	2.19	2.19
W1-1R	36	36					1	YELLOW	BLACK	BLACK	P-5 1 REQ'D	9.00	9.00
W1-2L	36	36					1	YELLOW	BLACK	BLACK	P-5 1 REQ'D	9.00	9.00
W1-6R	48	24					1	YELLOW	BLACK	BLACK	P-5 1 REQ'D	8.00	8.00
W2-6	36	36					3	YELLOW	BLACK	BLACK	P-5 3 REQ'D	9.00	27.00
W11-1	30	30					9	YELLOW	BLACK	BLACK	P-5 9 REQ'D	6.25	62.50
W11-2	30	30					6	FLUORE-SCENT YELLOW GREEN	BLACK	BLACK	P-5 6 REQ'D	6.25	37.50
W11-15	30	30					9	FLUORE-SCENT YELLOW GREEN	BLACK	BLACK	P-5 9 REQ'D	6.25	43.75
W13-1P(15)	18	18	15 M.P.H.				3	YELLOW	BLACK	BLACK	MOUNTED WITH W2-6	2.25	6.75
W14-1	36	36	DEAD END				1	YELLOW	BLACK	BLACK	P-5 1 REQ'D	9.00	9.00
W14-2aR	36	8	NO OUTLET				1	YELLOW	BLACK	BLACK	MOUNTED WITH MA-D3-1b	2.00	2.00
W16-17P	24	12	ROUNDABOUT				3	YELLOW	BLACK	BLACK	MOUNTED WITH W2-6	2.00	6.00
W16-7pL	24	12					13	FLUORE-SCENT YELLOW GREEN	BLACK	BLACK	6 MOUNTED WITH W11-2 7 MOUNTED WITH W11-15	2.00	26.00

20121457A70_SIGNSUM01.DWG Plotted on 5-May-2023 4:16 PM

NOTES:
HIGH INTENSITY ENCAPSULATED LENS REFLECTIVE SHEETING SHALL BE USED FOR ALL SIGNS. THE 2009 "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", THE 1990 MDPW "STANDARD DRAWINGS FOR SIGNS AND SUPPORTS", AND ALL ADMENDMENTS WILL GOVERN.

ALL P5 SIGN POSTS SHALL BE FACTORY COATED GLOSS BLACK
ITEM 841.1 - 5" TUBULAR POSTS SHALL BE FACTORY COATED GLOSS BLACK
(PBS) = PAINTED BOTH SIDES

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXX(XXX)X	105	358
PROJECT FILE NO.	608717		

TRAFFIC SIGN SUMMARY

IDENTIFICATION NUMBER	SIZE OF SIGN WIDTH (IN)	SIZE OF SIGN HEIGHT (IN)	TEXT	TEXT DIMENSIONS (in) LETTER HEIGHT	TEXT DIMENSIONS (in) VERTICAL SPACING	TEXT DIMENSIONS (in) ARROW RTE. MKR.	NUMBER OF SIGNS REQUIRED	COLOR BACK-GROUND	COLOR LEGEND	COLOR BORDER	POST SIZE AND NUMBER REQUIRED	SIGN FACE AREA (S.F.)	TOTAL AREA (S.F.)
W16-9P (VEH)	24	12	AHEAD	SEE 2009 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (INCLUDING LATEST REVISION)			1	FLUORE-SCENT YELLOW GREEN	BLACK	BLACK	1 MOUNTED WITH W11-15	2.00	2.00
W16-9P (BIKE)	24	12	AHEAD	↓	↓	↓	2	GREEN	WHITE	WHITE	2 MOUNTED WITH D11-1	2.00	4.00
MA-W16-19P	24	18	ON ROADWAY	SEE 2016 MASSDOT STANDARD SIGNS BOOK			9	YELLOW	BLACK	BLACK	MOUNTED WITH W11-1	3.00	30.00
W17-1	36	36	SPEED HUMP	SEE 2009 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (INCLUDING LATEST REVISION)			1	YELLOW	BLACK	BLACK	P-5 1 REQ'D	9.00	9.00
D11-1	24	18	BIKE ROUTE				20	GREEN	WHITE	WHITE	P-5 16 REQ'D 4 MOUNTED BACK TO BACK	3.00	60.00
S1-1	36	36		↓	↓	↓	1	FLUORE-SCENT YELLOW GREEN	BLACK	BLACK	P-5 1 REQ'D	9.00	9.00
MA-D3-1a (PBS)	54	12	Continental St	6D/4D	3 3	N/A	1	GREEN	WHITE	WHITE	P-5 2 REQ'D	——	EACH
MA-D3-1b (PBS)	48	12	Parkwood St	6D/4D	3 3	N/A	1	GREEN	WHITE	WHITE	P-5 2 REQ'D	——	EACH
MA-D3-1c (PBS)	48	12	Cliftwood St	6D/4D	3 3	N/A	2	GREEN	WHITE	WHITE	1 MOUNTED ON MAST POST P-5 2 REQ'D	——	EACH
MA-D3-1d (PBS)	36	12	Lenox St	6D/4D	3 3	N/A	2	GREEN	WHITE	WHITE	P-5 1 REQ'D 1 MOUNTED WITH R5-1	——	EACH
MA-D3-1e (PBS)	42	12	Trenton St	6D/4D	3 3	N/A	1	GREEN	WHITE	WHITE	P-5 2 REQ'D	——	EACH
MA-D3-1f (PBS)	48	12	Sumner Ter	6D/4D	3 3	N/A	1	GREEN	WHITE	WHITE	P-5 2 REQ'D	——	EACH
MA-D3-1g (PBS)	48	12	Sumner Ave	6D/4D	3 3	N/A	6	GREEN	WHITE	WHITE	MOUNTED ON MAST POST	——	EACH
MA-D3-1h (PBS)	42	12	Oakland St	6D/4D	3 3	N/A	2	GREEN	WHITE	WHITE	2 MOUNTED ON MAST POST	——	EACH
MA-D3-1i (PBS)	48	12	Kenwood Ter	6D/4D	3 3	N/A	1	GREEN	WHITE	WHITE	MOUNTED WITH R1-1	——	EACH

IDENTIFICATION NUMBER	SIZE OF SIGN WIDTH (IN)	SIZE OF SIGN HEIGHT (IN)	TEXT	TEXT DIMENSIONS (in) LETTER HEIGHT	TEXT DIMENSIONS (in) VERTICAL SPACING	TEXT DIMENSIONS (in) ARROW RTE. MKR.	NUMBER OF SIGNS REQUIRED	COLOR BACK-GROUND	COLOR LEGEND	COLOR BORDER	POST SIZE AND NUMBER REQUIRED	SIGN FACE AREA (S.F.)	TOTAL AREA (S.F.)
MA-D3-1j (PBS)	48	12	Beaumont St	6D/4D	3 3	N/A	1	GREEN	WHITE	WHITE	P-5 2 REQ'D	——	EACH
MA-D3-1k (PBS)	48	12	Dickinson St	6D/4D	3 3	N/A	4	GREEN	WHITE	WHITE	P-5 4 REQ'D 2 ON MAST POST	——	EACH
MA-D3-1l (PBS)	48	12	Belmont Ave	6D/4D	3 3	N/A	4	GREEN	WHITE	WHITE	P-5 4 REQ'D 2 MOUNTED WITH R6-2R	——	EACH
MA-D3-1m (PBS)	42	12	Ventura St	6D/4D	3 3	N/A	1	GREEN	WHITE	WHITE	P-5 2 REQ'D	——	EACH
MA-D3-1n (PBS)	42	12	Ormond St	6D/4D	3 3	N/A	2	GREEN	WHITE	WHITE	1 MOUNTED ON MAST POST P-5 2 REQ'D	——	EACH
MA-D3-1o (PBS)	48	12	Burlington St	6D/4D	3 3	N/A	2	GREEN	WHITE	WHITE	P-5 4 REQ'D	——	EACH
MA-D3-1p (PBS)	48	12	Grenada Ter	6D/4D	3 3	N/A	1	GREEN	WHITE	WHITE	P-5 2 REQ'D	——	EACH
MA-D3-1q (PBS)	42	12	Sorrento St	6D/4D	3 3	N/A	1	GREEN	WHITE	WHITE	P-5 2 REQ'D	——	EACH
MA-D3-1r (PBS)	42	12	Pomona St	6D/4D	3 3	N/A	1	GREEN	WHITE	WHITE	P-5 2 REQ'D	——	EACH
D1-1dA	78	18	Commenwealth Ave ↗	6C	3 3	N/A	1	GREEN	WHITE	WHITE	P-5 1 REQ'D	9.75	9.75
D1-3	60	36	83 Sumner Ave ↑ Dickinson St → Belmont Ave ↱	6 C 6 C 6 C	3 3 3 3	6"X9" @ 90 ANGLE 6"X9" @ 0 ANGLE 6"X9" @ 90/0 ANGLE	1	GREEN	WHITE	WHITE	P-5 2 REQ'D	15.00	15.00
D1-1D	54	24	To Sumner Ave NEXT RIGHT	6 C 6 C	4 4 3	N/A	1	GREEN	WHITE	WHITE	MOUNTED WITH D6-3	9.00	9.00
MA-D1-7a	66	120	Route 83 to 91 Longmeadow W. Springfield → 83 SOUTH E. Longmeadow ←	SEE 2016 MASSDOT STANDARD SIGNS BOOK			2	GREEN	WHITE	WHITE	ITEM 841.2 (2) - 5" TUBULAR POSTS	55.00	110.00
MA-D1-7b	66	120	Route 83 to 91 Longmeadow W. Springfield ← 83 SOUTH E. Longmeadow →	↓	↓	↓	2	GREEN	WHITE	WHITE	ITEM 841.2 (2) - 5" TUBULAR POSTS	55.00	110.00

20121457A70_SIGNSUM01.DWG Plotted on 5-May-2023 4:17 PM

NOTES:
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ITEM 841.1 - 5" TUBULAR POSTS SHALL BE FACTORY COATED GLOSS BLACK
(PBS) = PAINTED BOTH SIDES

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	106	358
	PROJECT FILE NO. 608717		

TRAFFIC SIGN SUMMARY

IDENTIFICATION NUMBER	SIZE OF SIGN WIDTH (IN)	SIZE OF SIGN HEIGHT (IN)	TEXT	TEXT DIMENSIONS (in) LETTER HEIGHT	TEXT DIMENSIONS (in) VERTICAL SPACING	TEXT DIMENSIONS (in) ARROW RTE. MKR.	NUMBER OF SIGNS REQUIRED	COLOR BACK-GROUND	COLOR LEGEND	COLOR BORDER	POST SIZE AND NUMBER REQUIRED	SIGN FACE AREA (S.F.)	TOTAL AREA (S.F.)
MA-D1-7c	66	108	83 NORTH Longmeadow ← / 83 SOUTH → E. Longmeadow	SEE 2016 MASSDOT STANDARD SIGNS BOOK			1	GREEN	WHITE	WHITE	ITEM 841.2 5" TUBULAR POSTS	49.50	49.50
MA-D1-6a	60	66	83 NORTH Longmeadow W. Springfield →				1	GREEN	WHITE	WHITE	ITEM 841.2 5" TUBULAR POSTS	27.50	27.50
MA-D1-6b	72	66	83 SOUTH E. Longmeadow Somers, CT →				1	GREEN	WHITE	WHITE	ITEM 841.2 5" TUBULAR POST	33.00	33.00
MA-D1-5a	60	54	83 SOUTH E. Longmeadow →				1	GREEN	WHITE	WHITE	ITEM 841.2 5" TUBULAR POSTS	22.50	22.50
D6-2	66	66	NORTH 83 TO 91 Longmeadow W. Springfield ←	7/6 C 8/6 C 8/6 C	3 4 3 4 3	RMO 18"X18" 8"X18" @ 180 ANGLE	1	GREEN	WHITE	WHITE	ITEM 841.2 5" TUBULAR POSTS	30.25	30.25
D6-3	66	60	TO 83 NORTH Longmeadow Springfield NEXT RIGHT	7/6 C 8/6 C 8/6 C 6 C	4 4 6 4 3	RMO 18"X18"	3	GREEN	WHITE	WHITE	ITEM 841.1 (3) - 5" TUBULAR POSTS	27.50	82.50
D6-4	66	60	83 NORTH Longmeadow W. Springfield NEXT LEFT	7/6 C 8/6 C 8/6 C 6 C	3 4 6 5 3	RMO 18"X18"	2	GREEN	WHITE	WHITE	ITEM 841.2 (2) - 5" TUBULAR POSTS	27.50	55.00
D6-5	72	60	NORTH 83 TO 91 ↑ Longmeadow W. Springfield	7/6 C 8/6 C 8/6 C	4 3 5 3 5	RMO 18"X18" 8"X18" @ 90 ANGLE	1	GREEN	WHITE	WHITE	ITEM 841.2 5" TUBULAR POST	30.00	30.00
D6-7	72	60	83 SOUTH E. Longmeadow Somers, CT SECOND RIGHT	7/6 C 8/6 C 8/6 C 6 C	4 5 6 4 4	RMO 18"X18"	1	GREEN	WHITE	WHITE	ITEM 841.2 5" TUBULAR POST	30.00	30.00
D6-8	72	60	83 SOUTH E. Longmeadow Somers, CT NEXT RIGHT	7/6 C 8/6 C 8/6 C 6 C	4 5 6 4 4	RMO 18"X18"	1	GREEN	WHITE	WHITE	ITEM 841.2 5" TUBULAR POST	30.00	30.00

IDENTIFICATION NUMBER	SIZE OF SIGN WIDTH (IN)	SIZE OF SIGN HEIGHT (IN)	TEXT	TEXT DIMENSIONS (in) LETTER HEIGHT	TEXT DIMENSIONS (in) VERTICAL SPACING	TEXT DIMENSIONS (in) ARROW RTE. MKR.	NUMBER OF SIGNS REQUIRED	COLOR BACK-GROUND	COLOR LEGEND	COLOR BORDER	POST SIZE AND NUMBER REQUIRED	SIGN FACE AREA (S.F.)	TOTAL AREA (S.F.)
D8-3	60	48	TO 83 SOUTH Somers, CT NEXT LEFT	7/6 C 8/6 C 6 C	5 5 4 4	RMO 18"X18"	2	GREEN	WHITE	WHITE	MOUNTED WITH D6-3	20.00	40.00
D1-2	60	24	Sumner Ave ↑ Belmont Ave →	6 C 6 C	3 3 3	6"X9" @ 90 ANGLE 6"X9" @ 0 ANGLE	1	GREEN	WHITE	WHITE	MOUNTED WITH D6-5	10.00	10.00
D1-1B	60	24	Dickinson St → NEXT RIGHT	6 C	4 4 4	6"X9" @ 0 ANGLE	1	GREEN	WHITE	WHITE	MOUNTED WITH D6-7	10.00	10.00
D1-1c	34	6	Sumner Ave →	2D	2 2	2"X3" @ 90 ANGLE	1	GREEN	WHITE	WHITE	P-5 1 REQ'D	1.42	1.42

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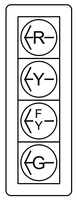
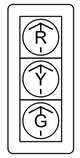
20121457 A70_TSP01.DWG Plotted on 5-May-2022 at 2:28:29 PM

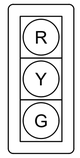
A



B,C



D,E,F,
H,J,K



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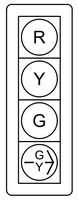


PROPOSED SIGNAL INDICATIONS

ALL SIGNAL HEADS SHALL BE RIGID MOUNTED & EQUIPPED WITH ±5" LOUVERED BACKPLATES WITH 3" YELLOW REFLECTIVE TAPE BORDERS. THE REFLECTIVE TAPE SHALL NOT EXTEND INTO OR COVER ANY PART OF THE LOUVERED AREA.

****ALL PROPOSED MAST ARMS, SIGNAL POSTS, BASES, BACKPLATES, AND BRACKETS SHALL BE FACTORY COATED BLACK*****

P1-P6



ALL COUNTDOWN PEDESTRIAN SIGNAL DISPLAYS SHALL BE EQUIPPED W/L.E.D. MODULES (16 INCH DISPLAY).



PROPOSED R10-3E

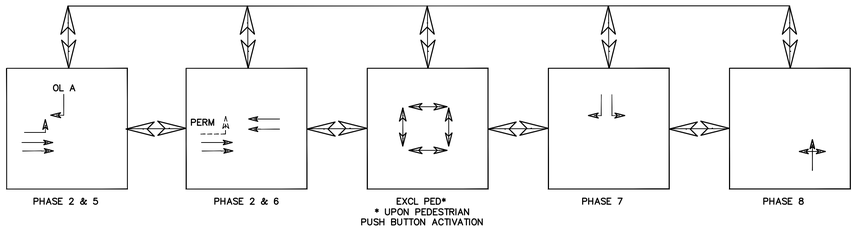
TO BE MOUNTED WITH EACH PROPOSED ACCESSIBLE PEDESTRIAN SIGNAL.

ACCESSIBLE PEDESTRIAN SIGNALS (APS):

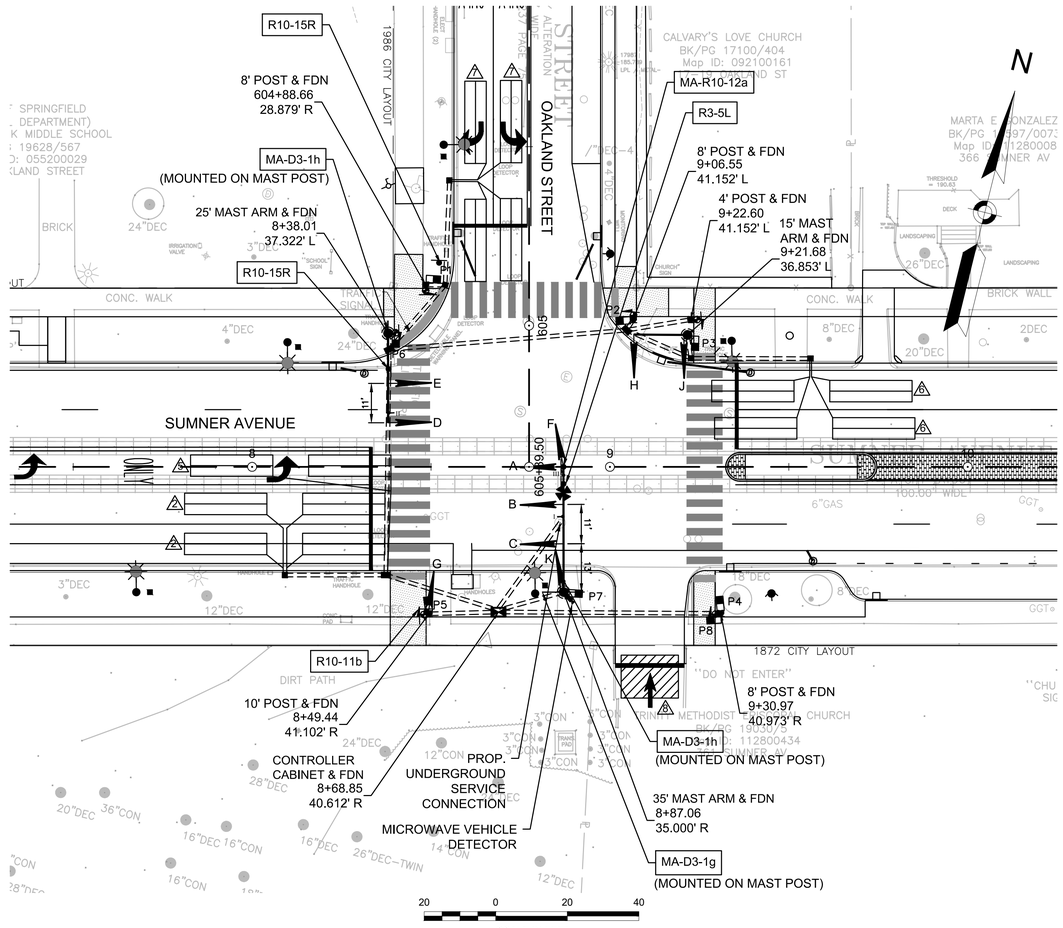
ALL PROPOSED ACCESSIBLE PEDESTRIAN SIGNALS MUST FULLY COMPLY WITH THE UNITED STATES ACCESS BOARD PROWAG SUPPLEMENTAL TECHNICAL REQUIREMENTS UNDER CHAPTER 4. THIS INCLUDES OPERABLE PARTS (R403), CLEAR SPACES (R404), AND REACH RANGES (R406) AS RELATES TO ACCESSIBLE PEDESTRIAN SIGNALS AND PEDESTRIAN PUSH BUTTONS.

ACCESSIBLE PEDESTRIAN SIGNALS (APS) SPEECH MESSAGE NOTE:

BUTTONS P2 AND P3 SHALL BE PROGRAMMED WITH THE APPROPRIATE SPEECH MESSAGE FOR WALK INDICATING THE STREET CROSSING.



PREFERENTIAL PHASE SEQUENCE



SIGNAL SEQUENCE & TIMING

	DIRECTION	HOUSING	Ø/OL	PHASE 2			PHASE 5			PHASE 6			PHASE 7			PHASE 8			EXCLUSIVE PED			FLASH
				PREEMPTION I			PREEMPTION I			PREEMPTION II			PREEMPTION III									
				1	2	3	7	8	9	10	11	12	13	14	15	13	14	15	16	17	18	
MINIMUM GREEN				12			5			14			12			12						
PASSAGE TIME				2			2			2			2			2						
MAXIMUM I				47			5			37			15.5			5						
MAXIMUM II				47			7			35			15.5			5						
YELLOW CLEAR					3.5			3.5			3.5			3.5			3.5					
RED CLEAR						1.5			1.5			1.5			2			1.5			3	
WALK																			7			
PED CLEAR																				19		
SUMNER AVE	EB L	A	5	FY	Y	R	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	FR
SUMNER AVE	EB	B,C	2	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	FY
SUMNER AVE	WB	D,E	6	R	R	R	R	R	R	G	Y	R	R	R	R	R	R	R	R	R	R	FY
OAKLAND ST	SB L	F	7	R	R	R	R	R	R	R	R	R	G	Y	R	R	R	R	R	R	R	FR
OAKLAND ST	SB R	G	7/A	R	R	R	R G	R Y	R	R	R	R	G	Y	R	R	R	R	R	R	R	FR
TRINITY CHURCH	NB	H,J,K	8	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	R	R	R	FR
PEDESTRIAN	N,S,E,W	P1-P8		DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	W	FDW	DW	OUT
DETECTORS				NON–LOCK			NON–LOCK			NON–LOCK			NON–LOCK			NON–LOCK			LOCK			
RECALL				SOFT			OFF			SOFT			OFF			OFF			OFF			
DUAL ENTRY				ON			ON			ON			OFF			OFF			OFF			
FLASHING OPERATION PER MUTCD SEC. 4D-28				PERM			OL A															

NOTE: GREEN ARROW OR WALK INDICATIONS TO REMAIN ENERGIZED DURING CLEARANCE INTERVALS IF NEXT PHASE CALLS FOR SAME INDICATIONS

MAX I: ALL OTHER TIMES
MAX II: M-F 7:00AM TO 7:00PM

SEE COORDINATION PLAN FOR COORDINATION OPERATION TIMES AND TIMING PLAN.

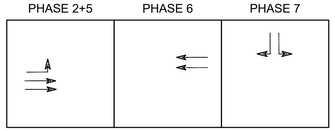
MAJOR ITEMS REQUIRED

PAY ITEM	QUANTITY	ITEM
811.31	5	PULL BOX 12" X 12"
811.22	3	PULL BOX 13" X 24"
816.01	1	SERVICE CONNECTION
	1	SIGNAL POST & BASE - 4' INCL FOUNDATION
	3	SIGNAL POST & BASE STANDARD - 8' INCL FOUNDATION
	1	SIGNAL POST & BASE STANDARD - 10' INCL FOUNDATION
	1	15' MAST ARM - STEEL, INCL BASE & FOUNDATION
	1	25' MAST ARM - STEEL, INCL BASE & FOUNDATION
	1	35' MAST ARM - STEEL, INCL BASE & FOUNDATION
	8	SIGNAL HEAD 1 WAY - 3 SECTION 12" LED LENS
	2	SIGNAL HEAD 1 WAY - 4 SECTION 12" LED LENS
	8	16" LED PEDESTRIAN SIGNAL HEAD
	1	TRAFFIC SIGNAL CONTROLLER - TYPE 8DW, INCLUDING BASE MOUNTED CABINET NEMA TS2 TYPE 1
	6	ACCESSIBLE PEDESTRIAN SIGNAL WITH SIGN AND SADDLE
	2	DUAL-CHANNEL INDUCTIVE LOOP DETECTOR AMPLIFIER
	2	4 FT X 4 FT DOUBLE QUADRUPOLE WIRE LOOP
	14	6 FT X 23 FT STANDARD QUADRUPOLE WIRE LOOP
	1	MICROWAVE PRESENCE DETECTOR
	3	SINGLE CHANNEL PREEMPTION DETECTOR & CABLE
	1	4 CHANNEL OPTICAL SIGNAL PROCESSOR
	1	PREEMPTION CARD RACK AND HARNESS
	1	PREEMPTION CONFIRMATION STROBE
	1	GPS CLOCK
		PLUS ALL WIRE, CABLE, MOUNTING HARDWARE, EQUIPMENT & MATERIALS NECESSARY TO COMPLETE THE INSTALLATION

LOOP DETECTORS

KEY	LOOPS	SIZE	TURNS	OPERATION	DELAY	PHASE	CONNECTION
2	4	6'X23'	2-4-2	PRESENCE	0 SEC.	2	PARALLEL
5	2	6'X23'	2-4-2	PRESENCE	0 SEC.	5	PARALLEL
6	4	6'X23'	2-4-2	PRESENCE	0 SEC.	6	PARALLEL
7	4	6'X23'	2-4-2	PRESENCE	0 SEC.	7	PARALLEL
8	MICROWAVE			PRESENCE	0 SEC.	8	PARALLEL

PHASE 2+5 PHASE 6 PHASE 7



PRE-EMPTION I PRE-EMPTION II PRE-EMPTION III

PRE-EMPTION

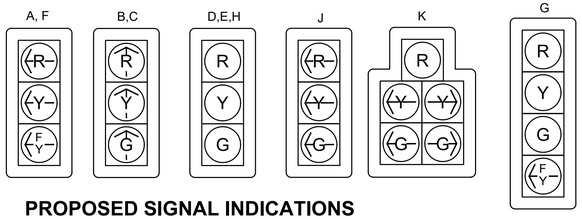
EMERGENCY VEHICLE PRE-EMPTION PHASING AND PRIORITY NOTES:

1. EMERGENCY VEHICLE PRE-EMPTION SIGNALS SHALL BE OPTICALLY TRANSMITTED BY OPTICAL EMITTERS MOUNTED IN EMERGENCY VEHICLES AND RECEIVED BY OPTICAL DETECTORS LOCATED AT EACH INTERSECTION.
2. 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 CLEARANCE (4 SECONDS: YELLOW AND 1 SECOND: ALL RED) AND SERVICE EMERGENCY VEHICLE PRE-EMPTION PHASE #2 (OR #1) IF NECESSARY, THEN TIME PHASE PRE-EMPTION CLEARANCE AND RESUME NORMAL SIGNAL OPERATION. EMERGENCY VEHICLE PRE-EMPTION PHASE #3 AND #4 SHALL BE SIMILARLY SERVED.
3. MINIMUM GREEN, NORMAL VEHICLE CLEARANCE, SHALL BE PROVIDED ON PHASES THAT ARE TO BE TERMINATED BY PRE-EMPTION DEMAND.
4. PREEMPTION STROBE SHALL BE ILLUMINATED WHENEVER ANY EMERGENCY VEHICLE PRE-EMPTION GREEN IS ON.

NOTE: FOUNDATION DESIGN INFORMATION IS PROVIDED WITH THE BORING LOGS ON SHEETS 5-6

LEGEND

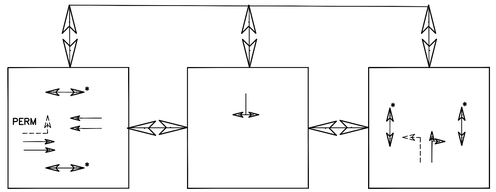
- PROPOSED SPAN WIRE & POLE
- PROPOSED MAST ARM & POLE
- PROPOSED SIGNAL POST
- A PROPOSED SIGNAL HEAD
- B PROPOSED OPTICALLY PROGRAMMED HEAD
- P1 PROPOSED PEDESTRIAN HEAD
- PROPOSED PEDESTRIAN PUSH BUTTON
- PROPOSED 12X12 PULL BOX
- PROPOSED 13X24X36 HAND HOLE
- PROPOSED 3" PVC CONDUIT TYPE NM
- PROPOSED CONTROLLER CABINET
- PROPOSED CONTROLLER CABINET W/CONC PAD
- PROPOSED CONTROLLER CABINET POLE MOUNTED
- DETECTOR KEY
- PROPOSED VIDEO DETECTOR
- III PROPOSED PREEMPTION OPTICAL DETECTOR
- PROPOSED PREEMPTION CONFIRMATION STROBE
- VIDEO DETECTION ZONE
- LOOP DETECTOR



PROPOSED SIGNAL INDICATIONS

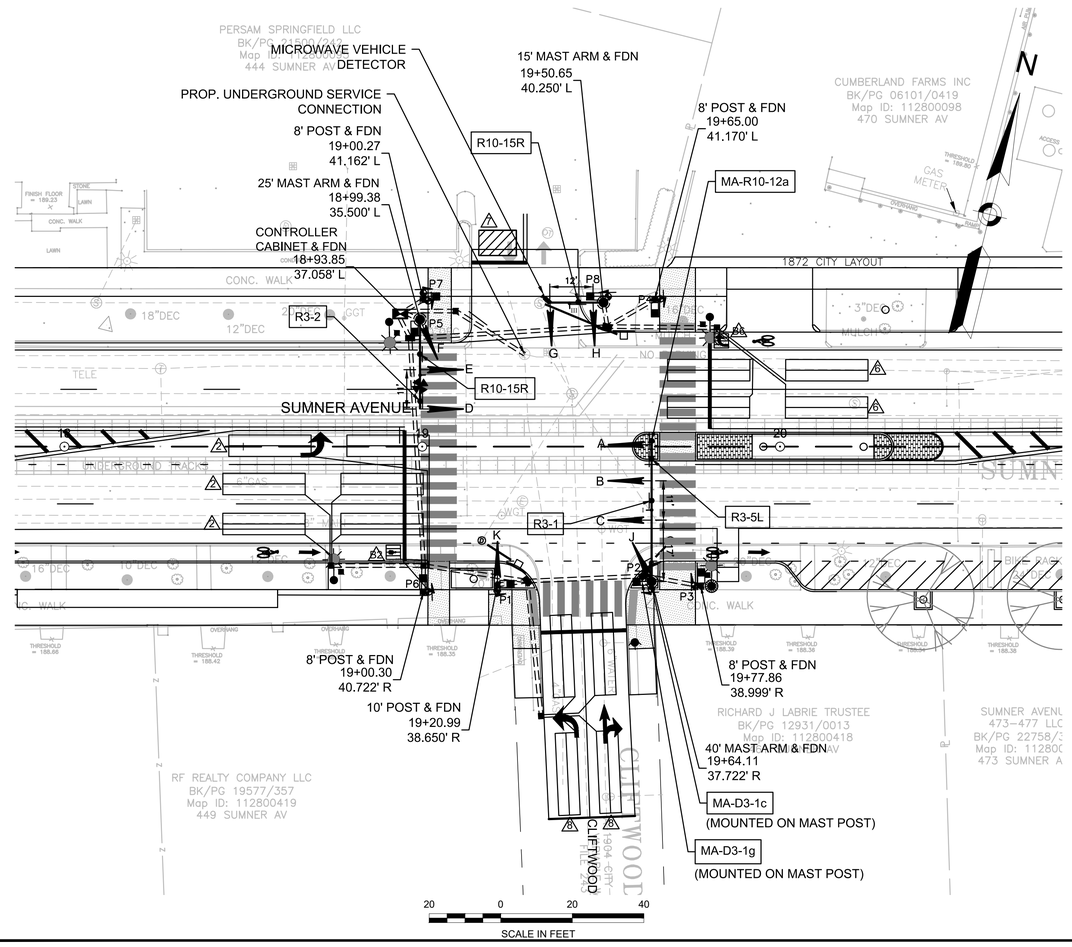
ALL SIGNAL HEADS SHALL BE RIGID MOUNTED & EQUIPPED WITH ±5" LOUVERED BACKPLATES WITH 3" YELLOW REFLECTIVE TAPE BORDERS. THE REFLECTIVE TAPE SHALL NOT EXTEND INTO OR COVER ANY PART OF THE LOUVERED AREA.

*****ALL PROPOSED MAST ARMS, SIGNAL POSTS, BASES, BACKPLATES, AND BRACKETS SHALL BE FACTORY COATED BLACK*****



* UPON PEDESTRIAN PUSH BUTTON ACTIVATION

PREFERENTIAL PHASE SEQUENCE



P1-P6



ALL COUNTDOWN PEDESTRIAN SIGNAL DISPLAYS SHALL BE EQUIPPED W/L.E.D. MODULES (16 INCH DISPLAY).



PROPOSED R10-3E

TO BE MOUNTED WITH EACH PROPOSED ACCESSIBLE PEDESTRIAN SIGNAL.

NOTE: GREEN ARROW OR WALK INDICATIONS TO REMAIN ENERGIZED DURING CLEARANCE INTERVALS IF NEXT PHASE CALLS FOR SAME INDICATIONS

MAX I: ALL OTHER TIMES
MAX II: M-F 7:00AM TO 7:00PM

SEE COORDINATION PLAN FOR COORDINATION OPERATION TIMES AND TIMING PLAN.

SIGNAL SEQUENCE & TIMING

	DIRECTION	HOUSING	Ø/OL	PHASE 2			PHASE 6			PHASE 7			PHASE 8			FLASH
				PREEMPTION I			PREEMPTION II						PREEMPTION III			
				1	2	3	7	8	9	4	5	6	10	11	12	
MINIMUM GREEN				13			13			5			20			
PASSAGE TIME				2			2			2			2			
MAXIMUM I				51.5			51.5			5.5			30			
MAXIMUM II				62			62			5			20			
YELLOW CLEAR					3.5			3.5			3.5			3.5		
RED CLEAR						1			1			2			1.5	
WALK				7			7						4			
PED CLEAR					8	3		8	3					18	3	
SUMNER AVE	EB L	A	2	FY	Y	R	R	R	R	R	R	R	R	R	R	FY
SUMNER AVE	EB	B,C	2	G	Y	R	R	R	R	R	R	R	R	R	R	FY
SUMNER AVE	WB	D,E	6	R	R	R	G	Y	R	R	R	R	R	R	R	FR
PRIVATE DRIVE	SB L/R	K	7	R	R	R	R	R	R	G	Y	R	R	R	R	FR
PRIVATE DRIVE	SB L	J	7	R	R	R	R	R	R	G	Y	R	R	R	R	FR
CLIFTWOOD ST	NB L	F	8	R	R	R	R	R	R	R	R	R	FY	Y	R	FR
CLIFTWOOD ST	NB T/L	G	8	R	R	R	R	R	R	R	R	R	G	Y	R	FR
CLIFTWOOD ST	NB T/R	H	8	R	R	R	R	R	R	R	R	R	G	Y	R	FR
PEDESTRIAN			UPON PUSHBUTTON ACTUATION													
	EAST	P3,P4		DW	DW	DW	DW	DW	DW	DW	DW	DW	W	FDW	DW	OUT
	SOUTH	P1,P2		W	FDW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	OUT
	WEST	P5,P6		DW	DW	DW	DW	DW	DW	DW	DW	DW	W	FDW	DW	OUT
	NORTH	P7,P8		DW	DW	DW	W	FDW	DW	DW	DW	DW	DW	DW	DW	OUT
DETECTORS				NON-LOCK			NON-LOCK			NON-LOCK			NON-LOCK			
RECALL				SOFT			SOFT			OFF			OFF			
DUAL ENTRY				ON			ON			OFF			OFF			
FLASHING OPERATION PER MUTCD SEC. 4D-28				PERM												

* UPON PEDESTRIAN PUSH BUTTON ACTIVATION

MAJOR ITEMS REQUIRED

PAY ITEM	QUANTITY	ITEM
811.31	5	PULL BOX 12" X 12"
811.22	4	PULL BOX 13" X 24"
815.2	1	SERVICE CONNECTION
	4	SIGNAL POST & BASE STANDARD - 8' INCL FOUNDATION
	1	SIGNAL POST & BASE STANDARD - 10' INCL FOUNDATION
	1	15' MAST ARM - STEEL, INCL BASE & FOUNDATION
	1	25' MAST ARM - STEEL, INCL BASE & FOUNDATION
	1	40' MAST ARM - STEEL, INCL BASE & FOUNDATION
	8	SIGNAL HEAD 1 WAY - 3 SECTION 12" LED LENS
	1	4 SECTION 12" LED BIMODAL LENS
	1	SIGNAL HEAD 1 WAY - 5 SECTION DOGHOUSE 12" LED LENS
	8	16" LED PEDESTRIAN SIGNAL HEAD
	1	TRAFFIC SIGNAL CONTROLLER - TYPE 8DW, INCLUDING BASE MOUNTED CABINET NEMA TS2 TYPE 1 AND CONCRETE PAD
	8	ACCESSIBLE PEDESTRIAN SIGNAL WITH SIGN AND SADDLE
	2	DUAL-CHANNEL INDUCTIVE LOOP DETECTOR AMPLIFIER
	2	4 FT X 4 FT DOUBLE QUADRUPOLE WIRE LOOP
	14	6 FT X 23 FT STANDARD QUADRUPOLE WIRE LOOP
	1	MICROWAVE PRESENCE DETECTOR
	3	SINGLE CHANNEL PREEMPTION DETECTOR & CABLE
	1	4 CHANNEL OPTICAL SIGNAL PROCESSOR
	1	PREEMPTION CARD RACK AND HARNESS
	1	PREEMPTION CONFIRMATION STROBE
	1	GPS CLOCK
		PLUS ALL WIRE, CABLE, MOUNTING HARDWARE, EQUIPMENT & MATERIALS NECESSARY TO COMPLETE THE INSTALLATION

ACCESSIBLE PEDESTRIAN SIGNALS (APS):

ALL PROPOSED ACCESSIBLE PEDESTRIAN SIGNALS MUST FULLY COMPLY WITH THE UNITED STATES ACCESS BOARD PROWAG SUPPLEMENTAL TECHNICAL REQUIREMENTS UNDER CHAPTER 4. THIS INCLUDES OPERABLE PARTS (R403), CLEAR SPACES (R404), AND REACH RANGES (R406) AS RELATES TO ACCESSIBLE PEDESTRIAN SIGNALS AND PEDESTRIAN PUSH BUTTONS.

EMERGENCY VEHICLE PRE-EMPTION PHASING AND PRIORITY NOTES:

1. EMERGENCY VEHICLE PRE-EMPTION SIGNALS SHALL BE OPTICALLY TRANSMITTED BY OPTICAL EMITTERS MOUNTED IN EMERGENCY VEHICLES AND RECEIVED BY OPTICAL DETECTORS LOCATED AT EACH INTERSECTION.
2. 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 CLEARANCE (4 SECONDS: YELLOW AND 1 SECOND: ALL RED) AND SERVICE EMERGENCY VEHICLE PRE-EMPTION PHASE #2 (OR #1) IF NECESSARY, THEN TIME PHASE PRE-EMPTION CLEARANCE AND RESUME NORMAL SIGNAL OPERATION. EMERGENCY VEHICLE PRE-EMPTION PHASE #3 AND #4 SHALL BE SIMILARLY SERVED.
3. MINIMUM GREEN, NORMAL VEHICLE CLEARANCE, SHALL BE PROVIDED ON PHASES THAT ARE TO BE TERMINATED BY PRE-EMPTION DEMAND.
4. PREEMPTION STROBE SHALL BE ILLUMINATED WHENEVER ANY EMERGENCY VEHICLE PRE-EMPTION GREEN IS ON.

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

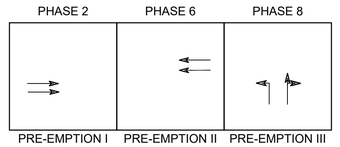
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXX(XXX)X	108	355
PROJECT FILE NO.	608711		358

TRAFFIC SIGNAL PLAN
LOCATION 2

NOTE: FOUNDATION DESIGN INFORMATION IS PROVIDED WITH THE BORING LOGS ON SHEETS 5-6

ACCESSIBLE PEDESTRIAN SIGNALS (APS) SPEECH MESSAGE NOTE:

BUTTONS P2, P3, P5, AND P7 SHALL BE PROGRAMMED WITH THE APPROPRIATE SPEECH MESSAGE FOR WALK INDICATING THE STREET CROSSING.



PRE-EMPTION

LOOP DETECTORS

KEY	LOOPS	SIZE	TURNS	OPERATION	DELAY	PHASE	CONNECTION
2	6	6'X23'	2-4-2	PRESENCE	0 SEC.	2	PARALLEL
2A	1	4'X4'	1-2-2-1	PRESENCE	0 SEC.	2	PARALLEL
6	4	6'X23'	2-4-2	PRESENCE	0 SEC.	6	PARALLEL
6A	1	4'X4'	1-2-2-1	PRESENCE	0 SEC.	6	PARALLEL
7	MICROWAVE			PRESENCE	0 SEC.	7	PARALLEL
8	4	6'X23'	2-4-2	PRESENCE	0 SEC.	8	PARALLEL

LEGEND

- PROPOSED SPAN WIRE & POLE
- PROPOSED MAST ARM & POLE
- PROPOSED SIGNAL POST
- A PROPOSED SIGNAL HEAD
- B PROPOSED OPTICALLY PROGRAMMED HEAD
- P1 PROPOSED PEDESTRIAN HEAD
- PROPOSED PEDESTRIAN PUSH BUTTON
- PROPOSED 12X12 PULL BOX
- PROPOSED 13X24X36 HAND HOLE
- PROPOSED 3" PVC CONDUIT TYPE NM
- PROPOSED CONTROLLER CABINET
- PROPOSED CONTROLLER CABINET W/CONC PAD
- PROPOSED CONTROLLER CABINET POLE MOUNTED
- DETECTOR KEY
- PROPOSED VIDEO DETECTOR
- III PROPOSED PREEMPTION OPTICAL DETECTOR
- PROPOSED PREEMPTION CONFIRMATION STROBE
- VIDEO DETECTION ZONE
- LOOP DETECTOR

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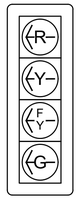
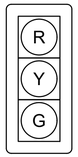


A,B,C,E,F,J,K,N,P



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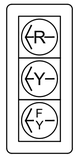


PROPOSED SIGNAL INDICATIONS

ALL SIGNAL HEADS SHALL BE RIGID MOUNTED & EQUIPPED WITH ±5" LOUVERED BACKPLATES WITH 3" YELLOW REFLECTIVE TAPE BORDERS. THE REFLECTIVE TAPE SHALL NOT EXTEND INTO OR COVER ANY PART OF THE LOUVERED AREA.

****ALL PROPOSED MAST ARMS, SIGNAL POSTS, BASES, BACKPLATES, AND BRACKETS SHALL BE FACTORY COATED BLACK*****

P1–P8



ALL COUNTDOWN PEDESTRIAN SIGNAL DISPLAYS SHALL BE EQUIPPED W/L.E.D. MODULES (16 INCH DISPLAY).

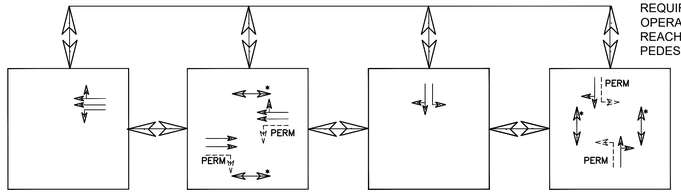


PROPOSED R10-3E

TO BE MOUNTED WITH EACH PROPOSED ACCESSIBLE PEDESTRIAN SIGNAL.

ACCESSIBLE PEDESTRIAN SIGNALS (APS):

ALL PROPOSED ACCESSIBLE PEDESTRIAN SIGNALS MUST FULLY COMPLY WITH THE UNITED STATES ACCESS BOARD PROWAG SUPPLEMENTAL TECHNICAL REQUIREMENTS UNDER CHAPTER 4. THIS INCLUDES OPERABLE PARTS (R403), CLEAR SPACES (R404), AND REACH RANGES (R406) AS RELATES TO ACCESSIBLE PEDESTRIAN SIGNALS AND PEDESTRIAN PUSH BUTTONS.



* UPON PEDESTRIAN PUSH BUTTON ACTIVATION

NOTE: GREEN ARROW OR WALK INDICATIONS TO REMAIN ENERGIZED DURING CLEARANCE INTERVALS IF NEXT PHASE CALLS FOR SAME INDICATIONS

MAX I: ALL OTHER TIMES
MAX II: M-F 7:00AM TO 7:00PM

SEE COORDINATION PLAN FOR COORDINATION OPERATION TIMES AND TIMING PLAN.

SIGNAL SEQUENCE & TIMING

	DIRECTION	HOUSING	Ø/OL	PHASE 1			PHASE 2			PHASE 4			PHASE 6			PHASE 7			PHASE 8			FLASH
							PREEMPTION I			PREEMPTION III			PREEMPTION II			PREEMPTION IV						
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
MINIMUM GREEN				5			19			25			19			5			25			
PASSAGE TIME				2			2			2			2			2			2			
MAXIMUM I				5			47			36			56			6.5			25			
MAXIMUM II				5			41			42			50			12.5			25			
YELLOW CLEAR					3			3.5			3.5			3.5			3.5			3.5		
RED CLEAR						1			1.5			1.5			1.5			1			1.5	
WALK							7			5			7						5			
PED CLEAR								14	3		22	3		14	3					22	3	
SUMNER AVE	EB	A,B,C	2	R	R	R	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	FY
SUMNER AVE	WB	E,F	6	R	R	R	R	R	R	R	R	R	G	Y	R	R	R	R	R	R	R	FY
SUMNER AVE	WB L	D	1	~~G~~	~~Y~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~FY~~	~~Y~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~FR~~
DICKINSON ST	SB	N,P	4	R	R	R	R	R	R	G	Y	R	R	R	R	R	R	R	R	R	R	FR
DICKINSON ST	SB L	M,L	7	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~FY~~	~~Y~~	~~R~~	~~R~~	~~R~~	~~R~~	~~G~~	~~Y~~	~~R~~	~~R~~	~~R~~	~~R~~	FR
DICKINSON ST	NB L	G,H	8	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~FY~~	~~Y~~	~~R~~	~~FR~~
DICKINSON ST	NB	J,K	8	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	FR
PEDESTRIAN	NORTH	P1,P2	UPON PUSHBUTTON ACTUATION	DW	DW	DW	DW	DW	DW	DW	DW	DW	W	FDW	DW	DW	DW	DW	DW	DW	DW	OUT
PEDESTRIAN	EAST	P3,P4		DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	W	FDW	DW	OUT
PEDESTRIAN	SOUTH	P5,P6		DW	DW	DW	W	FDW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	OUT
PEDESTRIAN	WEST	P7,P8		DW	DW	DW	DW	DW	DW	W	FDW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	OUT
DETECTORS				NON–LOCK			NON–LOCK			NON–LOCK			NON–LOCK			NON–LOCK			NON–LOCK			
RECALL				OFF			SOFT			OFF			SOFT			OFF			OFF			
DUAL ENTRY				ON			ON			ON			ON			ON			ON			
FLASHING OPERATION PER MUTCD SEC. 4D-28										PERM			PERM						PERM			

* UPON PEDESTRIAN PUSH BUTTON ACTIVATION

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	109	355
PROJECT FILE NO.	60871	358	

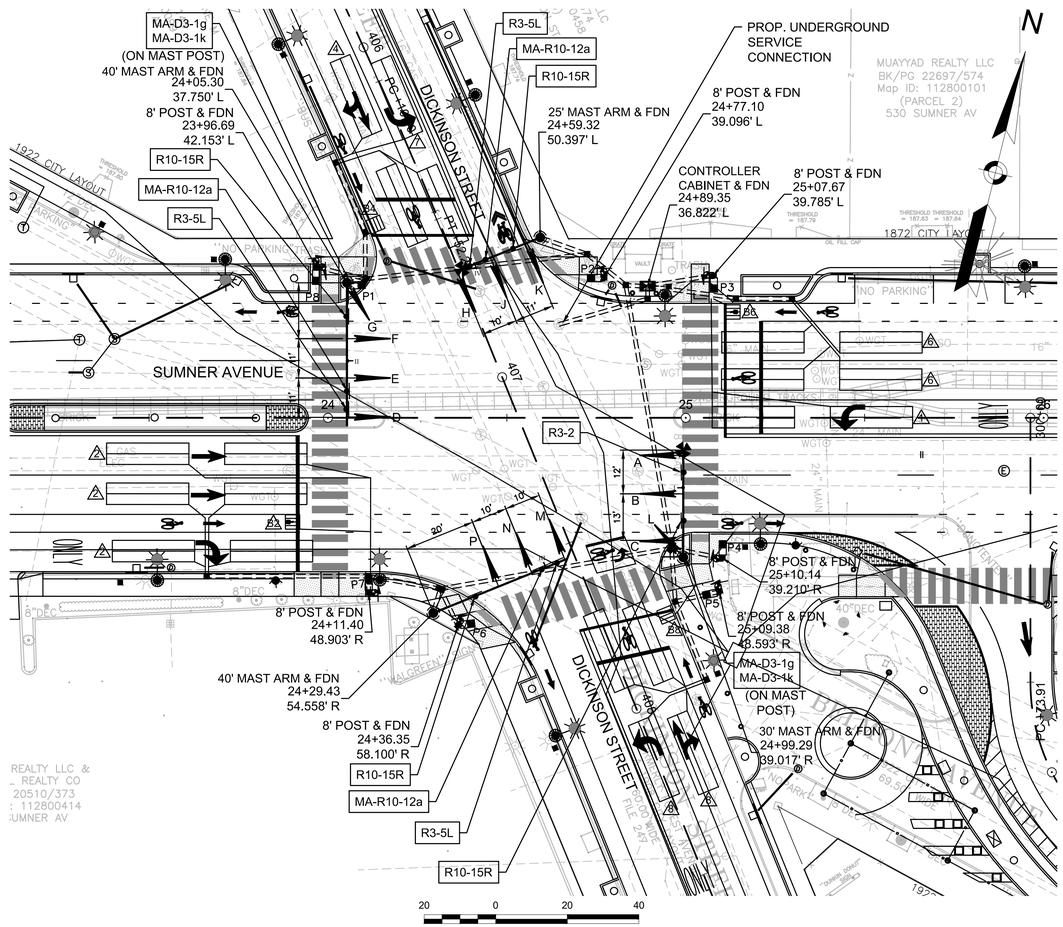
TRAFFIC SIGNAL PLAN
LOCATION 3

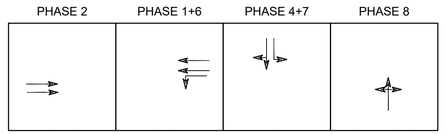
NOTE: FOUNDATION DESIGN INFORMATION IS PROVIDED WITH THE BORING LOGS ON SHEETS 5-6

ACCESSIBLE PEDESTRIAN SIGNALS (APS) SPEECH MESSAGE NOTE:

BUTTONS P1, P4, P5, AND P8 SHALL BE PROGRAMMED WITH THE APPROPRIATE SPEECH MESSAGE FOR WALK INDICATING THE STREET CROSSING.

PREFERENTIAL PHASE SEQUENCE





MAJOR ITEMS REQUIRED

PAY ITEM	QUANTITY	ITEM
811.31	11	PULL BOX 12" X 12"
811.22	3	PULL BOX 13" X 24"
816.03	1	SERVICE CONNECTION
	7	SIGNAL POST & BASE STANDARD - 8' INCL FOUNDATION
	1	25' MAST ARM - STEEL, INCL BASE & FOUNDATION
	1	30' MAST ARM - STEEL, INCL BASE & FOUNDATION
	2	40' MAST ARM - STEEL, INCL BASE & FOUNDATION
	11	SIGNAL HEAD 1 WAY - 3 SECTION 12" LED LENS
	3	SIGNAL HEAD 1 WAY - 4 SECTION 12" LED LENS
	8	16" LED PEDESTRIAN SIGNAL HEAD
	1	TRAFFIC SIGNAL CONTROLLER - TYPE 8DW, INCLUDING BASE MOUNTED CABINET NEMA TS2 TYPE 1 AND CONCRETE PAD
	1	SYSTEM MASTER CONTROLLER
	8	ACCESSIBLE PEDESTRIAN SIGNAL WITH SIGN AND SADDLE
	3	DUAL-CHANNEL INDUCTIVE LOOP DETECTOR AMPLIFIER
	4	4 FT X 4 FT DOUBLE QUADRUPOLE WIRE LOOP
	20	6 FT X 23 FT STANDARD QUADRUPOLE WIRE LOOP
	4	SINGLE CHANNEL PREEMPTION DETECTOR & CABLE
	1	4 CHANNEL OPTICAL SIGNAL PROCESSOR
	1	PREEMPTION CARD RACK AND HARNESS
	2	PREEMPTION CONFIRMATION STROBE
	1	GPS CLOCK
		PLUS ALL WIRE, CABLE, MOUNTING HARDWARE, EQUIPMENT & MATERIALS NECESSARY TO COMPLETE THE INSTALLATION

LOOP DETECTORS

KEY	LOOPS	SIZE	TURNS	OPERATION	DELAY	PHASE	CONNECTION
1	2	6'X23'	2-4-2	PRESENCE	0 SEC.	1	PARALLEL
2	6	6'X23'	2-4-2	PRESENCE	0 SEC.	2	PARALLEL
2A	1	4'X4'	1-2-2-1	PRESENCE	0 SEC.	2	PARALLEL
4	2	6'X23'	2-4-2	PRESENCE	0 SEC.	4	PARALLEL
4A	1	4'X4'	1-2-2-1	PRESENCE	0 SEC.	4	PARALLEL
6	4	6'X23'	2-4-2	PRESENCE	0 SEC.	6	PARALLEL
6A	1	4'X4'	1-2-2-1	PRESENCE	0 SEC.	6	PARALLEL
7	2	6'X23'	2-4-2	PRESENCE	0 SEC.	7	PARALLEL
8	4	6'X23'	2-4-2	PRESENCE	0 SEC.	8	PARALLEL
8A	1	4'X4'	1-2-2-1	PRESENCE	0 SEC.	8	PARALLEL

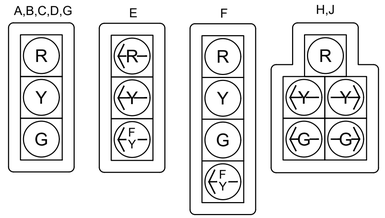
PRE-EMPTION

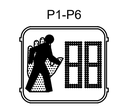
EMERGENCY VEHICLE PRE-EMPTION PHASING AND PRIORITY NOTES:

1. EMERGENCY VEHICLE PRE-EMPTION SIGNALS SHALL BE OPTICALLY TRANSMITTED BY OPTICAL EMITTERS MOUNTED IN EMERGENCY VEHICLES AND RECEIVED BY OPTICAL DETECTORS LOCATED AT EACH INTERSECTION.
2. 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 CLEARANCE (4 SECONDS: YELLOW AND 1 SECOND: ALL RED) AND SERVICE EMERGENCY VEHICLE PRE-EMPTION PHASE #2 (OR #1) IF NECESSARY, THEN TIME PHASE PRE-EMPTION CLEARANCE AND RESUME NORMAL SIGNAL OPERATION. EMERGENCY VEHICLE PRE-EMPTION PHASE #3 AND #4 SHALL BE SIMILARLY SERVED.
3. MINIMUM GREEN, NORMAL VEHICLE CLEARANCE, SHALL BE PROVIDED ON PHASES THAT ARE TO BE TERMINATED BY PRE-EMPTION DEMAND.
4. PREEMPTION STROBE SHALL BE ILLUMINATED WHENEVER ANY EMERGENCY VEHICLE PRE-EMPTION GREEN IS ON.

LEGEND

- PROPOSED SPAN WIRE & POLE
- PROPOSED MAST ARM & POLE
- PROPOSED SIGNAL POST
- A PROPOSED SIGNAL HEAD
- B PROPOSED OPTICALLY PROGRAMMED HEAD
- P1 PROPOSED PEDESTRIAN HEAD
- PROPOSED PEDESTRIAN PUSH BUTTON
- PROPOSED 12X12 PULL BOX
- PROPOSED 13X24X36 HAND HOLE
- PROPOSED 3" PVC CONDUIT TYPE NM
- PROPOSED CONTROLLER CABINET
- PROPOSED CONTROLLER CABINET W/CONC PAD
- PROPOSED CONTROLLER CABINET POLE MOUNTED
- DETECTOR KEY
- PROPOSED VIDEO DETECTOR
- III PROPOSED PREEMPTION OPTICAL DETECTOR
- PROPOSED PREEMPTION CONFIRMATION STROBE
- VIDEO DETECTION ZONE
- LOOP DETECTOR





ALL COUNTDOWN PEDESTRIAN SIGNAL DISPLAYS SHALL BE EQUIPPED W/L.E.D. MODULES (16 INCH DISPLAY).



PROPOSED R10-3E

TO BE MOUNTED WITH EACH PROPOSED ACCESSIBLE PEDESTRIAN SIGNAL.

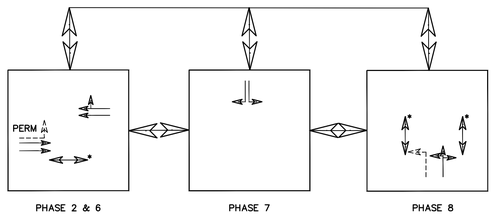
ACCESSIBLE PEDESTRIAN SIGNALS (APS):

ALL PROPOSED ACCESSIBLE PEDESTRIAN SIGNALS MUST FULLY COMPLY WITH THE UNITED STATES ACCESS BOARD PROWAG SUPPLEMENTAL TECHNICAL REQUIREMENTS UNDER CHAPTER 4. THIS INCLUDES OPERABLE PARTS (R403), CLEAR SPACES (R404), AND REACH RANGES (R406) AS RELATES TO ACCESSIBLE PEDESTRIAN SIGNALS AND PEDESTRIAN PUSH BUTTONS.

PROPOSED SIGNAL INDICATIONS

ALL SIGNAL HEADS SHALL BE RIGID MOUNTED & EQUIPPED WITH ±5" LOUVERED BACKPLATES WITH 3" YELLOW REFLECTIVE TAPE BORDERS. THE REFLECTIVE TAPE SHALL NOT EXTEND INTO OR COVER ANY PART OF THE LOUVERED AREA.

*****<u>*ALL PROPOSED MAST ARMS, SIGNAL POSTS, BASES, BACKPLATES, AND BRACKETS SHALL BE FACTORY COATED BLACK*</u>******



PREFERENTIAL PHASE SEQUENCE

SIGNAL SEQUENCE & TIMING

	DIRECTION	HOUSING	Ø/OL	PHASE 2			PHASE 6			PHASE 7			PHASE 8			FLASH
				PREEMPTION I			PREEMPTION II						PREEMPTION III			
				1	2	3	7	8	9	4	5	6	10	11	12	
MINIMUM GREEN				15			12			18			18			
PASSAGE TIME				2			2			2			2			
MAXIMUM I				42.5			42.5			18			27			
MAXIMUM II				46.5			46.5			18			23			
YELLOW CLEAR					3.5			3.5			3.5			3.5		
RED CLEAR						1			1			1.5			1.5	
WALK				7						4			4			
PED CLEAR					10	3					16	3		16	3	
SUMNER AVE	EB	A,B	2	G	Y	R	R	R	R	R	R	R	R	R	R	FY
SUMNER AVE	WB	C,D	6	R	R	R	G	Y	R	R	R	R	R	R	R	FY
ORMOND ST	NB L	E	8	(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)	(FY)	(Y)	(R)	(FR)
ORMOND ST	NB	F	8	R	R	R	R	R	R	R	R	R	(FY G (FY Y		R	FR
ORMOND ST	NB	G	8	R	R	R	R	R	R	R	R	R	G	Y	R	FR
PRIVATE DRIVE	SB L/R	H,J	7	R	R	R	R	R	R	(G G)	(Y Y)	R	R	R	R	FR
PEDESTRIAN			UPON PUSHBUTTON ACTUATION													
	SOUTH	P3,P4		W	FDW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	OUT
	EAST	P1,P2		DW	DW	DW	DW	DW	DW	DW	DW	DW	W	FDW	DW	OUT
	WEST	P5,P6		DW	DW	DW	DW	DW	DW	DW	DW	DW	W	FDW	DW	OUT
DETECTORS				NON–LOCK			NON–LOCK			NON–LOCK			NON–LOCK			
RECALL				SOFT			SOFT			OFF			OFF			
DUAL ENTRY				ON			ON			OFF			OFF			
FLASHING OPERATION PER MUTCD SEC. 4D-28				PERM									*			

* UPON PEDESTRIAN PUSH BUTTON ACTIVATION

NOTE: GREEN ARROW OR WALK INDICATIONS TO REMAIN ENERGIZED DURING CLEARANCE INTERVALS IF NEXT PHASE CALLS FOR SAME INDICATIONS

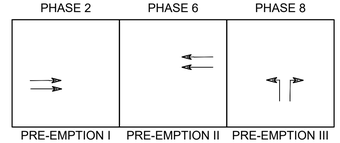
MAX I: ALL OTHER TIMES
MAX II: M-F 7:00AM TO 7:00PM

SEE COORDINATION PLAN FOR COORDINATION OPERATION TIMES AND TIMING PLAN.

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

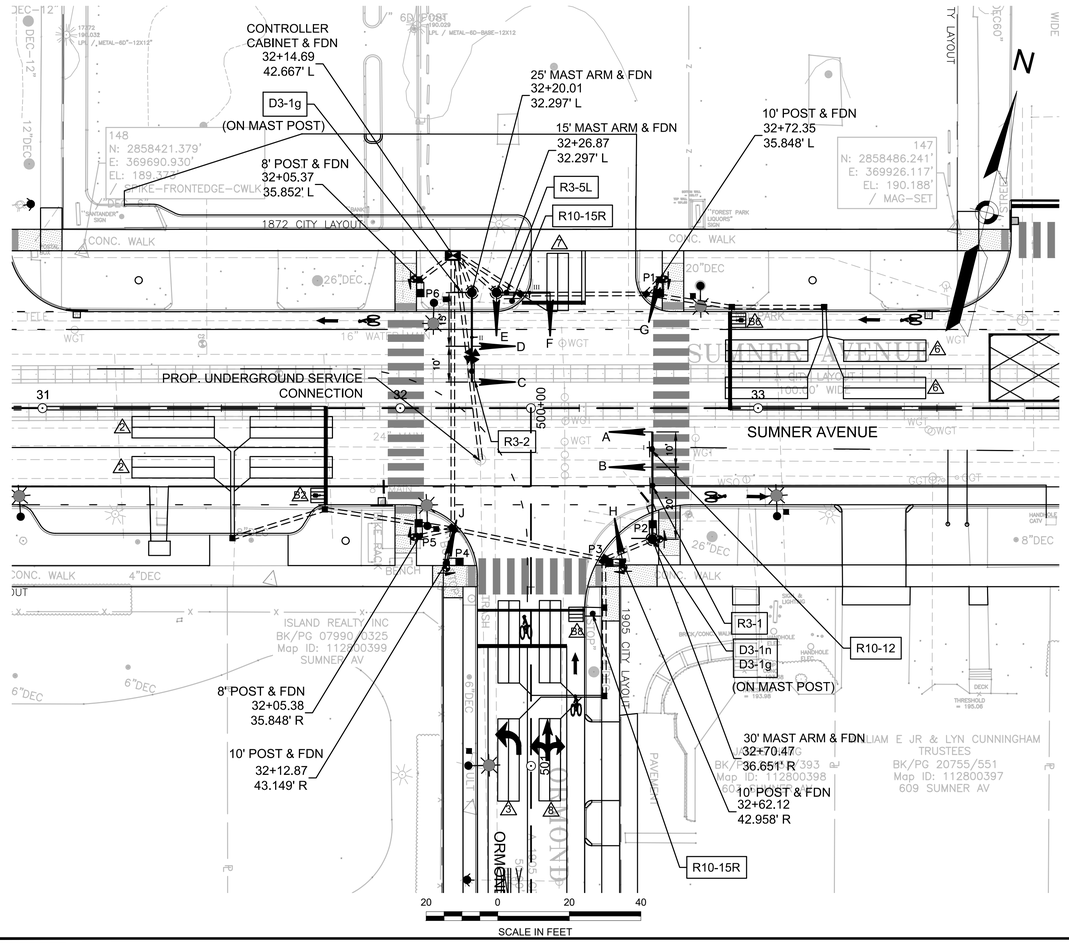
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	110	355
PROJECT FILE NO.	60871		358

TRAFFIC SIGNAL PLAN
LOCATION 4



PRE-EMPTION

NOTE: FOUNDATION DESIGN INFORMATION IS PROVIDED WITH THE BORING LOGS ON SHEETS 5-6



MAJOR ITEMS REQUIRED

PAY ITEM	QUANTITY	ITEM
811.31	8	PULL BOX 12" X 12"
811.22	2	PULL BOX 13" X 24"
815.4	1	SERVICE CONNECTION
	2	SIGNAL POST & BASE STANDARD - 8' INCL FOUNDATION
	3	SIGNAL POST & BASE STANDARD - 10' INCL FOUNDATION
	1	15' MAST ARM - STEEL, INCL BASE & FOUNDATION
	1	25' MAST ARM - STEEL, INCL BASE & FOUNDATION
	1	30' MAST ARM - STEEL, INCL BASE & FOUNDATION
	6	SIGNAL HEAD 1 WAY - 3 SECTION 12" LED LENS
	1	SIGNAL HEAD 1 WAY - 4 SECTION 12" LED LENS
	2	SIGNAL HEAD 1 WAY - 5 SECTION DOGHOUSE 12" LED LENS
	6	16" LED PEDESTRIAN SIGNAL HEAD
	1	TRAFFIC SIGNAL CONTROLLER - TYPE 8DW, INCLUDING BASE MOUNTED CABINET NEMA TS2 TYPE 1
	6	ACCESSIBLE PEDESTRIAN SIGNAL WITH SIGN AND SADDLE
	2	DUAL-CHANNEL INDUCTIVE LOOP DETECTOR AMPLIFIER
	3	4 FT X 4 FT DOUBLE QUADRUPOLE WIRE LOOP
	1	6 FT X 16 FT STANDARD QUADRUPOLE WIRE LOOP
	12	6 FT X 23 FT STANDARD QUADRUPOLE WIRE LOOP
	3	SINGLE CHANNEL PREEMPTION DETECTOR & CABLE
	1	4 CHANNEL OPTICAL SIGNAL PROCESSOR
	1	PREEMPTION CARD RACK AND HARNESS
	1	PREEMPTION CONFIRMATION STROBE
	1	GPS CLOCK
		PLUS ALL WIRE, CABLE, MOUNTING HARDWARE, EQUIPMENT & MATERIALS NECESSARY TO COMPLETE THE INSTALLATION

LOOP DETECTORS

KEY	LOOPS	SIZE	TURNS	OPERATION	DELAY	PHASE	CONNECTION
2	4	6'X23'	2-4-2	PRESENCE	0 SEC.	2	PARALLEL
2A	1	4'X4'	1-2-2-1	PRESENCE	0 SEC.	2	PARALLEL
3	2	6'X23'	2-4-2	PRESENCE	0 SEC.	8	PARALLEL
6	4	6'X23'	2-4-2	PRESENCE	0 SEC.	6	PARALLEL
6A	1	4'X4'	1-2-2-1	PRESENCE	0 SEC.	6	PARALLEL
7	1	6'X16'	2-4-2	PRESENCE	0 SEC.	7	PARALLEL
8	2	6'X23'	2-4-2	PRESENCE	0 SEC.	8	PARALLEL
8A	1	4'X4'	1-2-2-1	PRESENCE	0 SEC.	8	PARALLEL

EMERGENCY VEHICLE PRE-EMPTION PHASING AND PRIORITY NOTES:

1. EMERGENCY VEHICLE PRE-EMPTION SIGNALS SHALL BE OPTICALLY TRANSMITTED BY OPTICAL EMITTERS MOUNTED IN EMERGENCY VEHICLES AND RECEIVED BY OPTICAL DETECTORS LOCATED AT EACH INTERSECTION.
2. 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 CLEARANCE (4 SECONDS: YELLOW AND 1 SECOND: ALL RED) AND SERVICE EMERGENCY VEHICLE PRE-EMPTION PHASE #2 (OR #1) IF NECESSARY, THEN TIME PHASE PRE-EMPTION CLEARANCE AND RESUME NORMAL SIGNAL OPERATION. EMERGENCY VEHICLE PRE-EMPTION PHASE #3 AND #4 SHALL BE SIMILARLY SERVED.
3. MINIMUM GREEN, NORMAL VEHICLE CLEARANCE, SHALL BE PROVIDED ON PHASES THAT ARE TO BE TERMINATED BY PRE-EMPTION DEMAND.
4. PREEMPTION STROBE SHALL BE ILLUMINATED WHENEVER ANY EMERGENCY VEHICLE PRE-EMPTION GREEN IS ON.

LEGEND

- PROPOSED SPAN WIRE & POLE
- PROPOSED MAST ARM & POLE
- PROPOSED SIGNAL POST
- A PROPOSED SIGNAL HEAD
- B PROPOSED OPTICALLY PROGRAMMED HEAD
- P1 PROPOSED PEDESTRIAN HEAD
- PROPOSED PEDESTRIAN PUSH BUTTON
- PROPOSED 12X12 PULL BOX
- PROPOSED 13X24X36 HAND HOLE
- PROPOSED 3" PVC CONDUIT TYPE NM
- PROPOSED CONTROLLER CABINET
- PROPOSED CONTROLLER CABINET W/CONC PAD
- PROPOSED CONTROLLER CABINET POLE MOUNTED
- DETECTOR KEY
- PROPOSED VIDEO DETECTOR
- III PROPOSED PREEMPTION OPTICAL DETECTOR
- PROPOSED PREEMPTION CONFIRMATION STROBE
- VIDEO DETECTION ZONE
- LOOP DETECTOR

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SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	111	355
	PROJECT FILE NO.	60871	358

TRAFFIC SIGNAL COORDINATION PLAN

SUMNER AVE AT OAKLAND STREET		
	PLAN 1 (SEC.)	PLAN 2 (SEC.)
Ø2&Ø5	10	12
Ø2&Ø6	42	40
Ø9**	29	29
Ø7	21	21
Ø8	10	10
CYCLE LENGTH	112	112
OFFSET*	55	53

SUMNER AVE AT CLIFTWOOD ST		
	PLAN 1 (SEC.)	PLAN 2 (SEC.)
Ø2&Ø6	56	66.5
Ø7	11	10.5
Ø8	35	25
CYCLE LENGTH	102	102
OFFSET*	7	4

SUMNER AVE AT DICKINSON STREET		
	PLAN 1 (SEC.)	PLAN 2 (SEC.)
Ø1&Ø6	9	9
Ø2&Ø6	52	46
Ø4&Ø7	11	17
Ø4&Ø8	30	30
CYCLE LENGTH	102	102
OFFSET*	0	0

SUMNER AVE AT ORMOND STREET		
	PLAN 1 (SEC.)	PLAN 2 (SEC.)
Ø2&Ø6	47	51
Ø7	23	23
Ø8	32	28
CYCLE LENGTH	102	102
OFFSET*	11	5.5

NOTES:

*OFFSET REFERENCED TO Ø2+Ø6 START OF GREEN

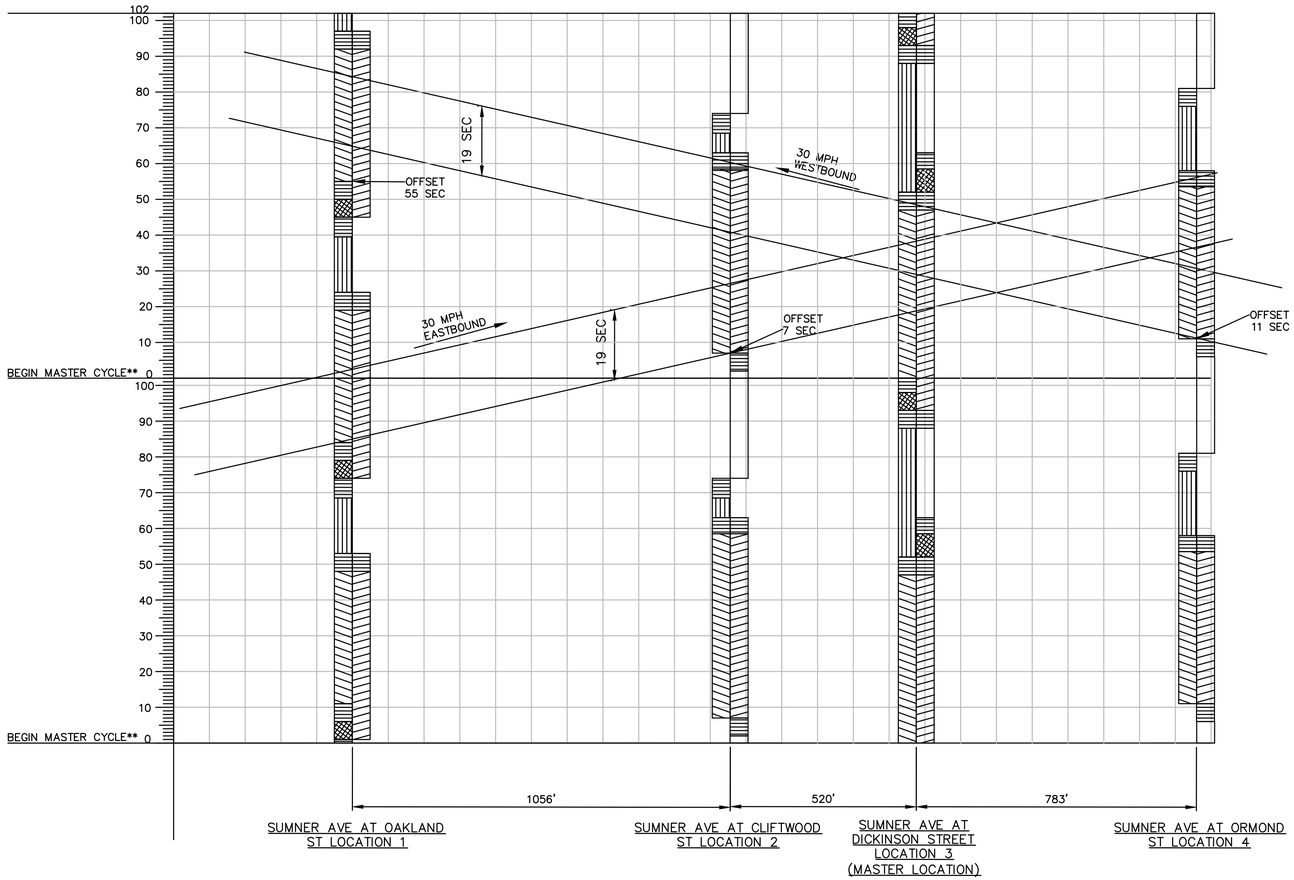
** PUSH-BUTTON ACTIVATED EXCLUSIVE PED PHASE IS NOT INCLUDED IN COORDINATION PLAN. CONTROLLER SHALL RE-COORDINATE TIMINGS AFTER EXCLUSIVE PED PHASE IS SERVED.

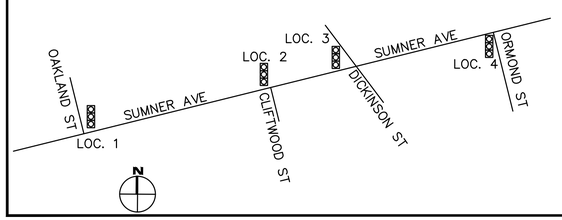
*** The SIGNAL PHASE FOR THE CHURCH EXIT ACROSS FROM OAKLAND STREET, Ø8, IS NOT INCLUDED IN COORDINATION PLAN. CONTROLLER SHALL RE-COORDINATE TIMINGS AFTER THIS PHASE IS SERVED

SUMNER AVENUE AT DICKINSON STREET IS THE SYSTEM MASTER CONTROLLER LOCATION

DAILY PROGRAMMING COORDINATION DATA			
OPERATION MODE	MON. – FRI.	SATURDAY	SUNDAY
PLAN 1	00:00–06:59 19:01–23:59	00:00–23:59	00:00–23:59
PLAN 2	07:00–19:00		

TIMING PLAN #1





LEGEND

YELLOW AND RED CLEARANCE INTERVAL

EASTBOUND GREEN TIME (ø2)

WESTBOUND GREEN TIME (ø6)

LEFT TURN PHASE GREEN TIME (ø1,ø3,ø5,or ø7)

SOUTH GREEN TIME (ø4)

NORTH GREEN TIME (ø8)

100' X 10 SEC.

BANDWIDTH SLOPE = 30 MPH OR 44 FT/SEC

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SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	112	355
	PROJECT FILE NO.	60871	358

TRAFFIC SIGNAL COORDINATION PLAN

20121457.A70_TSP01.DWG Plotted on 5-May-2023 at 2:28 PM

SUMNER AVE AT OAKLAND STREET

	PLAN 1 (SEC.)	PLAN 2 (SEC.)
Ø2&Ø5	10	12
Ø2&Ø6	42	40
Ø9**	29	29
Ø7	21	21
Ø8	10	10
CYCLE LENGTH	112	112
OFFSET*	55	53

SUMNER AVE AT CLIFTWOOD ST

	PLAN 1 (SEC.)	PLAN 2 (SEC.)
Ø2&Ø6	56	66.5
Ø7	11	10.5
Ø8	35	25
CYCLE LENGTH	102	102
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SUMNER AVE AT DICKINSON STREET

	PLAN 1 (SEC.)	PLAN 2 (SEC.)
Ø1&Ø6	9	9
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Ø4&Ø7	11	17
Ø4&Ø8	30	30
CYCLE LENGTH	102	102
OFFSET*	0	0

SUMNER AVE AT ORMOND STREET

	PLAN 1 (SEC.)	PLAN 2 (SEC.)
Ø2&Ø6	47	51
Ø7	23	23
Ø8	32	28
CYCLE LENGTH	102	102
OFFSET*	11	5.5

NOTES:

*OFFSET REFERENCED TO Ø2+Ø6 START OF GREEN

** PUSH-BUTTON ACTIVATED EXCLUSIVE PED PHASE IS NOT INCLUDED IN COORDINATION PLAN. CONTROLLER SHALL RE-COORDINATE TIMINGS AFTER EXCLUSIVE PED PHASE IS SERVED.

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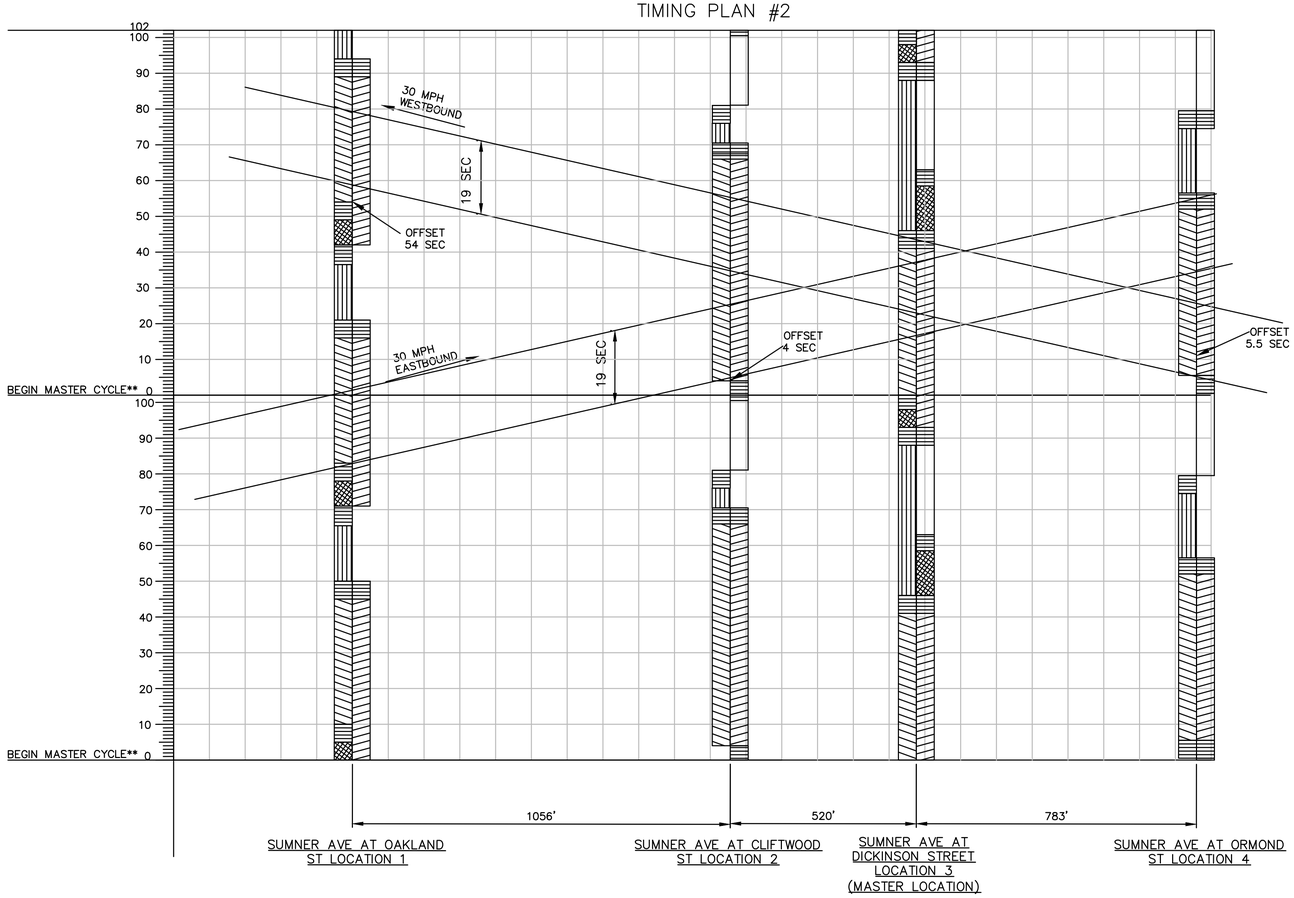
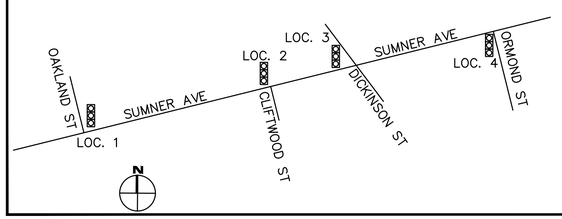
SUMNER AVENUE AT DICKINSON STREET IS THE SYSTEM MASTER CONTROLLER LOCATION

DAILY PROGRAMMING COORDINATION DATA

OPERATION MODE	MON. – FRI.	SATURDAY	SUNDAY
PLAN 1	00:00–06:59 19:01–23:59	00:00–23:59	00:00–23:59
PLAN 2	07:00–19:00		

TIMING PLAN #2





LEGEND

YELLOW AND RED CLEARANCE INTERVAL

EASTBOUND GREEN TIME (ø2)

WESTBOUND GREEN TIME (ø6)

LEFT TURN PHASE GREEN TIME (ø1,ø3,ø5,or ø7)

SOUTH GREEN TIME (ø4)

NORTH GREEN TIME (ø8)

100' X 10 SEC.

BANDWIDTH SLOPE = 30 MPH OR 44 FT/SEC

NOTES:

1. ALL TEMPORARY TRAFFIC CONTROL WORK SHALL CONFORM TO THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) AND ALL REVISIONS, UNLESS SUPERCEDED BY THESE PLANS.
2. ALL SIGN LEGENDS, BORDERS, AND MOUNTING SHALL BE IN ACCORDANCE WITH THE MUTCD.
3. TEMPORARY CONSTRUCTION SIGNING AND ALL OTHER TRAFFIC CONTROL DEVICES SHALL BE IN PLACE PRIOR TO THE START OF ANY WORK.
4. TEMPORARY CONSTRUCTION SIGNING, BARRICADES, AND ALL OTHER NECESSARY WORK ZONE TRAFFIC CONTROL DEVICES SHALL BE REMOVED FROM THE HIGHWAY OR COVERED WHEN THEY ARE NOT REQUIRED FOR CONTROL OF TRAFFIC.
5. SIGNS AND SIGN SUPPORTS LOCATED ON OR NEAR THE TRAVELED WAY, CHANNELIZING DEVICES, BARRIERS, AND CRASH ATTENUATORS MUST PASS THE CRITERIA SET FORTH IN NCHRP REPORT 350, "RECOMMENDED PROCEDURES FOR THE SAFETY PERFORMANCE EVALUATION OF HIGHWAY FEATURES" AND/OR "MANUAL FOR ASSESSING SAFETY HARDWARE" (MASH). THE CONTRACTOR SHALL COMPLY WITH THE SUNSET DATES FOR WORK ZONE DEVICES COMPLIANT WITH NCHRP REPORT 350 ACCORDING TO MASSDOT DIRECTIVE E-20-004 AND PROVIDE MASH COMPLIANT DEVICES IN ACCORDANCE WITH THE DIRECTIVE.
6. CONTRACTORS SHALL NOTIFY EACH ABUTTER AT LEAST 24 HOURS IN ADVANCE OF THE START OF ANY WORK THAT WILL REQUIRE THE TEMPORARY CLOSURE OF ACCESS, SUCH AS CONDUIT INSTALLATION, EXISTING PAVEMENT EXCAVATION, TEMPORARY DRIVEWAY PAVEMENT PLACEMENT, AND SIMILAR OPERATIONS.
7. THE FIRST TEN PLASTIC DRUMS OF A TAPER SHALL BE MOUNTED WITH SEQUENTIAL FLASHING LIGHTS.
8. THE ADVISORY SPEED LIMIT, IF REQUIRED, SHALL BE DETERMINED BY THE ENGINEER.
9. DISTANCES ARE A GUIDE AND MAY BE ADJUSTED IN THE FIELD BY THE ENGINEER.
10. MAXIMUM SPACING OF TRAFFIC DEVICES IN A TAPER (DRUMS OR CONES) IS EQUAL IN FEET TO THE SPEED LIMIT IN MPH.
11. MINIMUM LANE WIDTH IS TO BE 11 FEET (3.3m) UNLESS OTHERWISE SHOWN. MINIMUM LANE WIDTH TO BE MEASURED FROM THE EDGE OF DRUMS OR MEDIAN BARRIER.
12. ALL SIGNS SHALL BE MOUNTED ON THEIR OWN STANDARD SIGN SUPPORTS.

LEGEND:

- REFLECTORIZED PLASTIC DRUM OR 36" CONE
- P/F POLICE/FLAGGER DETAIL
- TYPE III BARRICADE
- CHANGEABLE MESSAGE SIGN
- ARROW BOARD
- WORK ZONE
- DIRECTION OF TRAFFIC
- IMPACT ATTENUATOR
- MEDIAN BARRIER
- MEDIAN BARRIER WITH WARNING LIGHTS
- WORK VEHICLE
- TRUCK MOUNTED ATTENUATOR
- TRAFFIC OR PEDESTRIAN SIGNAL
- SIGN

THE IDEAL CAPACITY OF A MAJOR HIGHWAY IS GENERALLY CONSIDERED TO BE 1900 PASSENGER CARS PER HOUR PER LANE (PCPHPL). IN WORK ZONES ON A MULTI-LANE DIVIDED HIGHWAY, THE FOLLOWING VOLUME GUIDELINES HAVE BEEN SUGGESTED:

MEASURED AVERAGE WORK ZONE CAPACITIES

NUMBER OF LANES		NUMBER OF STUDIES	AVERAGE CAPACITY	
NORMAL (EXISTING)	OPEN (TO TRAFFIC)		VPH	VPHPL
2	1	7	1,170	1,170
2	1	8	1,340	1,340
5	2	8	2,740	1,370
4	2	4	2,960	1,480
3	2	9	2,980	1,490
4	3	4	4,560	1,520

Source: Dudek, C., Notes on Work Zone Capacity and Level of Service. Texas Transportation Institute, Texas A&M University, College Station, Texas (1984)

BY OBTAINING HOURLY TRAFFIC COUNTS FOR A PARTICULAR ROADWAY (WITH A MINIMUM OF A 48-HOUR AUTOMATIC TRAFFIC RECORDER (ATR) COUNT), THIS WILL HELP TO DETERMINE AT WHAT TIMES OF THE DAY OR NIGHT A CERTAIN NUMBER OF LANES MAY BE CLOSED.

massDOT Highway Division | Notes for Traffic Management | FIGURE GEN-1 GENERAL GUIDELINES

SUGGESTED WORK ZONE WARNING SIGN SPACING

ROAD TYPE	DISTANCE BETWEEN SIGNS **		
	A	B	C
LOCAL OR LOW VOLUME ROADWAYS*	350	350	350
MOST OTHER ROADWAYS*	500	500	500
FREEWAYS AND EXPRESSWAYS*	1,000	1,500	2,640

* ROAD TYPE TO BE DETERMINED BY MASSDOT OFFICE OF TRANSPORTATION PLANNING.

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

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

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

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

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

Based on: Table 6C-1 MUTCD LATEST EDITION

STOPPING SIGHT DISTANCE AS A FUNCTION OF SPEED

SPEED* (mph)	DISTANCE (ft)
20	115
25	155
30	200
35	250
40	305
45	360
50	425
55	495
60	570
65	645
70	730
75	820

*POSTED SPEED, OFF-PEAK 85TH-PERCENTILE SPEED PRIOR TO WORK STARTING, OR THE ANTICIPATED OPERATING SPEED

THESE VALUES MAY BE USED TO DETERMINE THE LENGTH OF LONGITUDINAL BUFFER SPACES.

THE DISTANCES IN THE ABOVE CHART REPRESENT THE MINIMAL VALUES FOR BUFFER SPACING.

Source: Table 6C-2 MUTCD LATEST EDITION

massDOT Highway Division | Notes for Traffic Management | FIGURE GEN-2 NOTES ON WORK ZONE DISTANCES

CONVENTIONAL ROADWAY– A STREET OR HIGHWAY OTHER THAN A LOW-VOLUME ROAD, EXPRESSWAY, OR FREEWAY.

EXPRESSWAY– A DIVIDED HIGHWAY WITH PARTIAL CONTROL OF ACCESS.

FREEWAY– A DIVIDED HIGHWAY WITH FULL CONTROL OF ACCESS.

LOW-VOLUME ROAD– A FACILITY LYING OUTSIDE OF BUILT-UP AREAS OF CITIES, TOWNS, AND COMMUNITIES, AND IT SHALL HAVE A TRAFFIC VOLUME OF LESS THAN 400 AADT. IT SHALL NOT BE A FREEWAY, EXPRESSWAY, INTERCHANGE RAMP, FREEWAY SERVICE ROAD OR A ROAD ON A DESIGNATED STATE HIGHWAY SYSTEM.

Source: MUTCD LATEST EDITION

TAPER LENGTH CRITERIA FOR TEMPORARY TRAFFIC CONTROL ZONES

TYPE OF TAPER	TAPER LENGTH (L)*
MERGING TAPER	AT LEAST L
SHIFTING TAPER	AT LEAST 0.5L
SHOULDER TAPER	AT LEAST 0.33L
ONE-LANE, TWO-WAY TRAFFIC TAPER	50 FT MIN. 100 FT MAX.
DOWNSTREAM TAPER	50 FT MIN. 100 FT MAX. PER LANE

Source: Table 6C-3 MUTCD LATEST EDITION

FORMULAS FOR DETERMINING TAPER LENGTHS

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

WHERE: L = TAPER LENGTH IN FEET
W = WIDTH OF OFFSET IN FEET
S = POSTED SPEED LIMIT, OR OFF-PEAK 85TH-PERCENTILE SPEED PRIOR TO WORK STARTING, OR THE ANTICAPATED OPERATING SPEED IN MPH

Source: Table 6C-4 MUTCD LATEST EDITION

massDOT Highway Division | Notes for Traffic Management | FIGURE GEN-3 NOTES ON WORK ZONE DISTANCES

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	113	358
	PROJECT FILE NO. 608717		

TEMPORARY TRAFFIC CONTROL PLANS

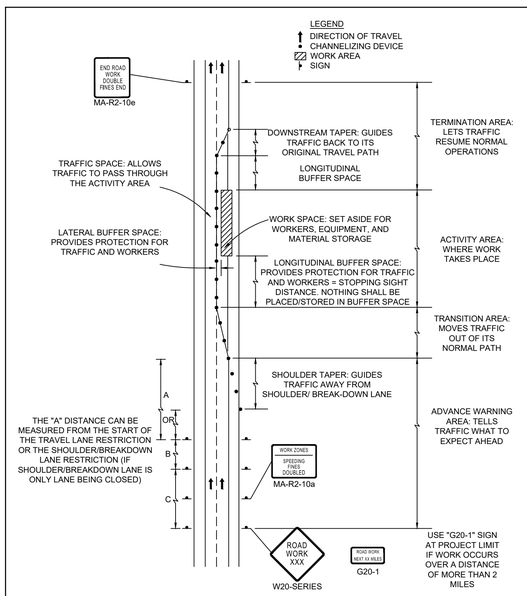
GENERAL NOTES:

1. IF ANY STAGE REQUIRES MODIFICATION OF THE TRAFFIC SIGNAL OPERATION, THE CONTRACTOR SHALL SUBMIT A REVISED SIGNAL TIMING AND PHASING PLAN TO THE CITY OF SPRINGFIELD FOR APPROVAL BEFORE MODIFYING THE TRAFFIC SIGNAL.
2. CONTRACTOR SHALL CONSTRUCT SIDEWALK IN SMALLER SECTIONS THAN SHOWN ON STAGING PLANS OR PEDESTRAIN MANAGEMENT PLANS IN ORDER TO MAINTAIN ACCESS TO BUILDINGS. THE CONTRACTOR SHALL COORDINATE WITH BUSINESS OWNERS ON ALL WORK IN FRONT OF THEIR BUILDINGS.
3. ALL TRAFFIC MANAGEMENT CONFIGURATIONS SHALL CONFORM TO THE STANDARD MassDOT DETAILS ON THE FOLLOWING SHEETS AND APPLY TO ALL LOCATIONS INCLUDED IN THE CONTRACT.
4. THE CONTRACTOR SHALL BE PERMITTED TO PERFORM TEMPORARY ROADWAY OR LANE CLOSURES FROM 8:00 A.M. TO 3:00 P.M. CHANGES TO THESE TIMES REQUIRE APPROVAL FROM THE CITY OF SPRINGFIELD
5. ALL TRENCHES IN THE ROADWAY SHALL EITHER BE BACKFILLED AND PATCHED WITH HOT MIX ASPHALT, COVERED WITH BEVELED EDGES STEEL PLATES, OR HOT MIX ASPHALT AROUND STEEL PLATES BEFORE REOPENING THE ROADWAY TO TRAFFIC. UNBEVELED STEEL PLATE MAY BE USED IF HMA WEDGES ARE PLACED IN ACCORDANCE WITH THE LONGITUDINAL DROP OFF DETAIL.
6. COVER ALL EXISTING SIGNAGE THAT CONFLICTS WITH THE TRAFFIC MANAGEMENT SETUP IN PLACE.
7. PORTABLE CHANGEABLE MESSAGE BOARDS (PCMB) SHALL BE USED ON THE PROJECT SITE; THESE SIGNS SHALL ADVISE MOTORISTS TO EXPECT DELAYS, AND ADVISE TRAILER TRUCKS OF RESTRICTED LANE WIDTHS (AND POSSIBLE DETOUR ROUTES) ON SPECIFIC APPROACHES DURING CERTAIN STAGES OF CONSTRUCTION.
8. THE CONTRACTOR SHALL PLACE TWO PORTABLE CHANGEABLE MESSAGE BOARDS (PCMB) ON THE PROJECT SITE, FOR SEVEN DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.
9. ALL ADVANCED SIGNAGE SHALL REMAIN IN PLACE FOR THE DURATION OF THE PROJECT.

SUMNER AVENUE	
ROADWAY TYPE	URBAN PRINCIPAL ARTERIAL
ADT	21,344
DISTANCE "A*"	500'
DISTANCE "B*"	500'
DISTANCE "C"	500'
ANTICIPATED SPEED	30 MPH
DICKINSON STREET	
ROADWAY TYPE	URBAN PRINCIPAL ARTERIAL
ADT	7,887
DISTANCE "A*"	500'
DISTANCE "B*"	500'
DISTANCE "C"	500'
ANTICIPATED SPEED	30 MPH
BELMONT AVENUE	
ROADWAY TYPE	URBAN PRINCIPAL ARTERIAL
ADT	8,525
DISTANCE "A*"	500'
DISTANCE "B*"	500'
DISTANCE "C"	500'
ANTICIPATED SPEED	30 MPH

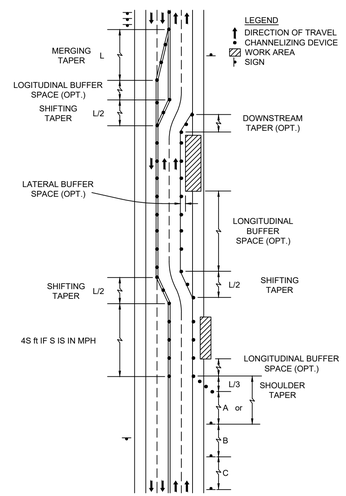
THE DIMENSIONS FOR A* & B* MAY REQUIRE FIELD ADJUSTMENTS DUE TO THE URBAN NATURE OF THE PROJECT AREA.

10. IF FLAGGERS ARE USED FOR TRAFFIC CONTROL, THE FLAGGER SIGN (W20-7a) SHALL BE SUBSTITUTED FOR THE POLICE OFFICER AHEAD (W20-7b) SIGN.
11. FOR EXISTING OR TEMPORARY CROSSWALKS IN A PEDESTRIAN BYPASS AREA (E.G. FIGURE PED-3 STANDARD DETAILS) THERE SHALL BE A PEDESTRIAN WARNING SIGN WITH PLACARD (W11-2 AND W16-7P) ON EACH APPROACH (TRAVEL DIRECTION) AT THE CROSSWALK.



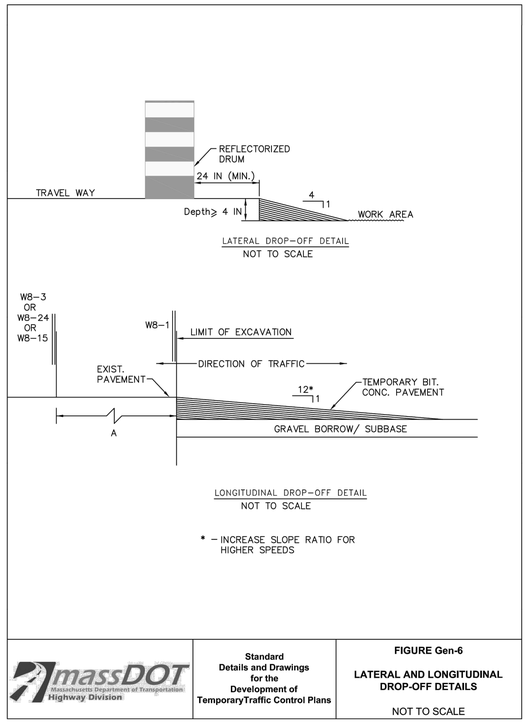
COMPONENT PARTS OF A TEMPORARY TRAFFIC CONTROL (TTC) ZONE

massDOT Highway Division | Standard Details and Drawings for the Development of Temporary Traffic Control Plans | FIGURE GEN-4 COMPONENT PARTS OF A TEMPORARY TRAFFIC CONTROL (TTC) ZONE NOT TO SCALE



TYPES OF TAPERS AND BUFFER SPACES

massDOT Highway Division | Standard Details and Drawings for the Development of Temporary Traffic Control Plans | FIGURE GEN-5 TYPES OF TAPERS AND BUFFER SPACES NOT TO SCALE



massDOT Highway Division | **Standard Details and Drawings for the Development of TemporaryTraffic Control Plans** | **FIGURE Gen-6 LATERAL AND LONGITUDINAL DROP-OFF DETAILS** NOT TO SCALE

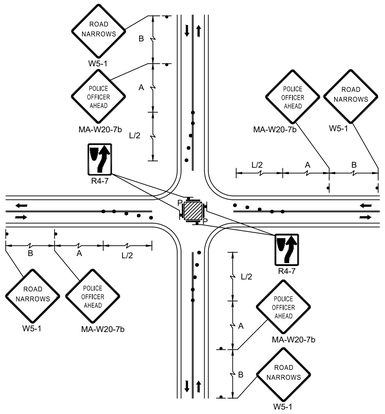
20121457A7D_TMP01.DWG Plotted on 5-May-2023 4:26 PM

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	114	358
	PROJECT FILE NO. 608717		

TEMPORARY TRAFFIC CONTROL PLANS

20121457A70_TMP01.DWG Plotted on 5-May-2023 4:26 PM



SINGLE LANE APPROACH CENTER CLOSURE

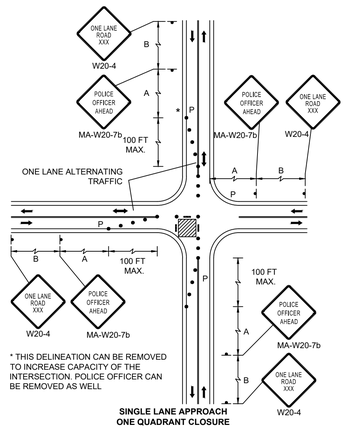
massDOT Commonwealth Department of Transportation Highway Division

Standard Details and Drawings for the Development of Temporary Traffic Control Plans

FIGURE INT-1

SINGLE LANE APPROACH CENTER CLOSURE

NOT TO SCALE



SINGLE LANE APPROACH ONE QUADRANT CLOSURE

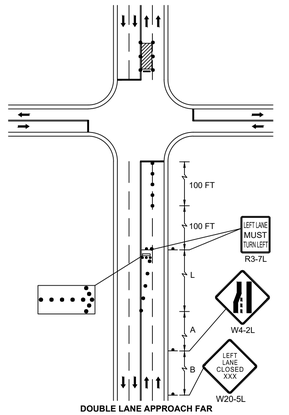
massDOT Commonwealth Department of Transportation Highway Division

Standard Details and Drawings for the Development of Temporary Traffic Control Plans

FIGURE INT-2

SINGLE LANE APPROACH ONE QUADRANT CLOSURE

NOT TO SCALE



DOUBLE LANE APPROACH FAR SIDE CLOSURE INSIDE LANE

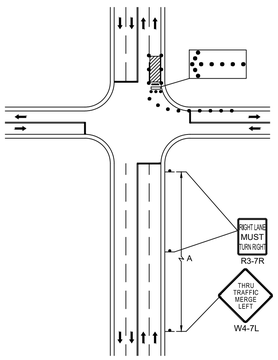
massDOT Commonwealth Department of Transportation Highway Division

Standard Details and Drawings for the Development of Temporary Traffic Control Plans

FIGURE INT-3

DOUBLE LANE APPROACH FAR SIDE CLOSURE INSIDE LANE

NOT TO SCALE



DOUBLE LANE APPROACH FAR SIDE CLOSURE RIGHT LANE

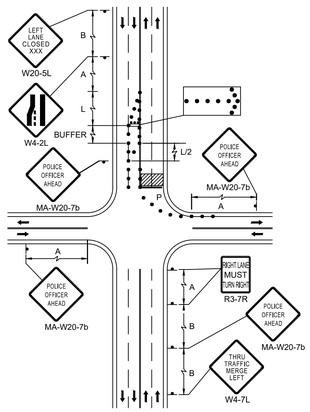
massDOT Commonwealth Department of Transportation Highway Division

Standard Details and Drawings for the Development of Temporary Traffic Control Plans

FIGURE INT-4

DOUBLE LANE APPROACH FAR SIDE CLOSURE RIGHT LANE

NOT TO SCALE



DOUBLE LANE APPROACH HALF ROAD CLOSURE

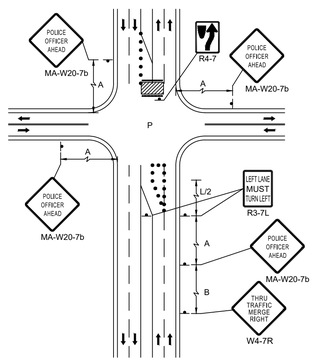
massDOT Commonwealth Department of Transportation Highway Division

Standard Details and Drawings for the Development of Temporary Traffic Control Plans

FIGURE INT-5

DOUBLE LANE APPROACH HALF ROAD CLOSURE

NOT TO SCALE



MULTI-LANE APPROACH MULTIPLE LANE CLOSURE

massDOT Commonwealth Department of Transportation Highway Division

Standard Details and Drawings for the Development of Temporary Traffic Control Plans

FIGURE INT-6

MULTI-LANE APPROACH MULTIPLE LANE CLOSURE

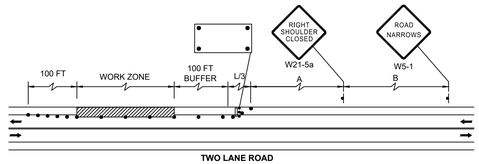
NOT TO SCALE

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	115	358
	PROJECT FILE NO. 608717		

TEMPORARY TRAFFIC CONTROL PLANS

20121457A70_TMP01.DWG Plotted on 5-May-2023 4:27 PM



TWO LANE ROAD SHOULDER CLOSED

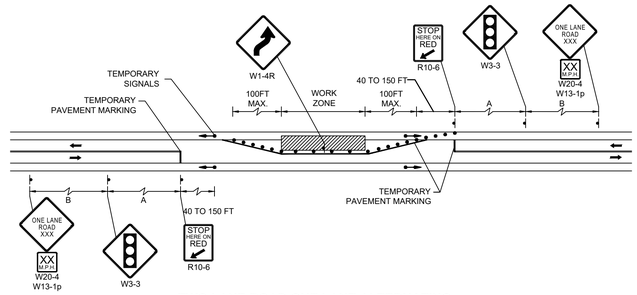
massDOT Massachusetts Department of Transportation Highway Division

Standard Details and Drawings for the Development of Temporary Traffic Control Plans

FIGURE TLR-1

TWO LANE ROAD SHOULDER CLOSED

NOT TO SCALE



TWO LANE ROAD ONE LANE ALTERNATING TRAFFIC WITH TEMPORARY SIGNAL

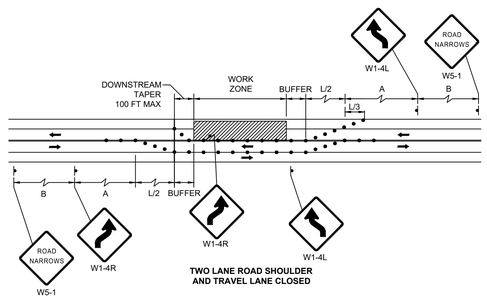
massDOT Massachusetts Department of Transportation Highway Division

Standard Details and Drawings for the Development of Temporary Traffic Control Plans

FIGURE TLR-4

TWO LANE ROAD ONE LANE ALTERNATING TRAFFIC WITH TEMPORARY SIGNAL

NOT TO SCALE



TWO LANE ROAD SHOULDER AND TRAVEL LANE CLOSED

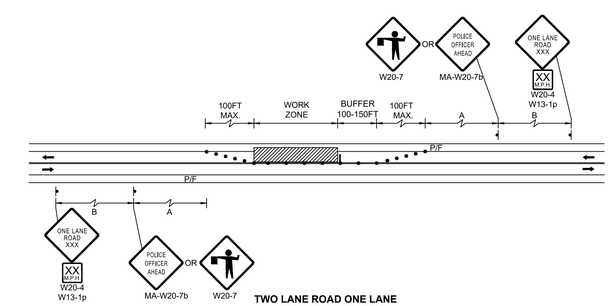
massDOT Massachusetts Department of Transportation Highway Division

Standard Details and Drawings for the Development of Temporary Traffic Control Plans

FIGURE TLR-2

TWO LANE ROAD SHOULDER AND TRAVEL LANE CLOSED

NOT TO SCALE



TWO LANE ROAD ONE LANE ALTERNATING TRAFFIC

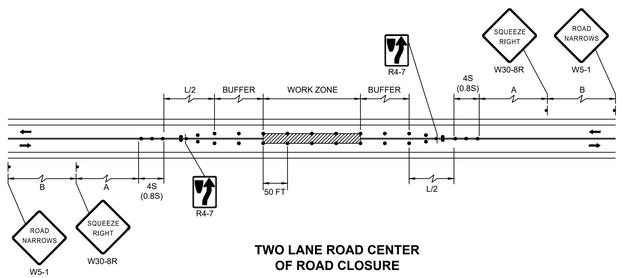
massDOT Massachusetts Department of Transportation Highway Division

Standard Details and Drawings for the Development of Temporary Traffic Control Plans

FIGURE TLR-5

TWO LANE ROAD ONE LANE ALTERNATING TRAFFIC

NOT TO SCALE



TWO LANE ROAD CENTER OF ROAD CLOSURE

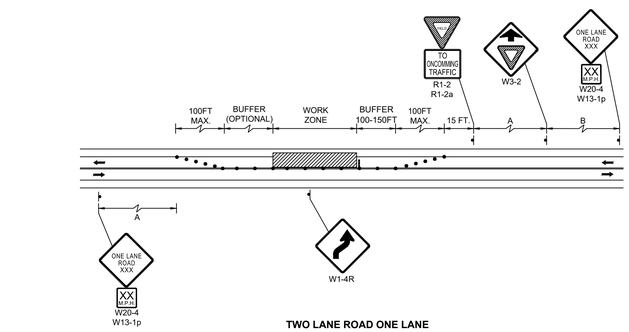
massDOT Massachusetts Department of Transportation Highway Division

Standard Details and Drawings for the Development of Temporary Traffic Control Plans

FIGURE TLR-3

TWO LANE ROAD CENTER OF ROAD CLOSURE

NOT TO SCALE



TWO LANE ROAD ONE LANE ATERNATING TRAFFIC WITH YIELD

massDOT Massachusetts Department of Transportation Highway Division

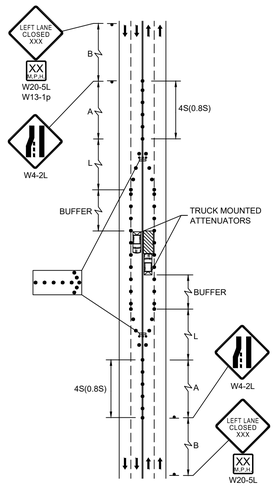
Standard Details and Drawings for the Development of Temporary Traffic Control Plans

FIGURE TLR-6

TWO LANE ROAD ONE LANE ALTERNATING TRAFFIC WITH YIELD

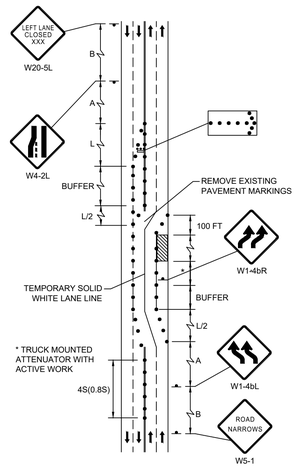
NOT TO SCALE

20121457A70_TMP01.DWG Plotted on 5-May-2023 4:28 PM



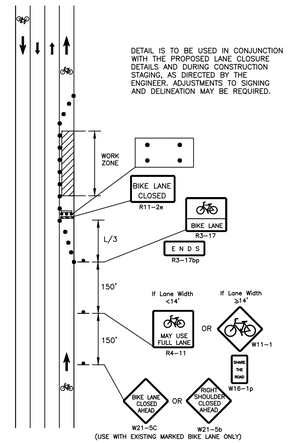
MULTIPLE LANE ROAD
INTERIOR LANE CLOSURE

massDOT Highway Division	Standard Details and Drawings for the Development of Temporary Traffic Control Plans	FIGURE MLR-1 MULTIPLE LANE ROAD INTERIOR LANE CLOSURE NOT TO SCALE



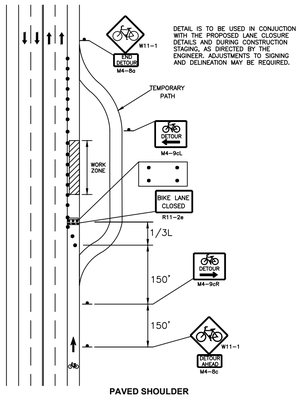
MULTIPLE LANE ROAD
INTERIOR LANE CLOSURE W/ UNEVEN VOLUMES

massDOT Highway Division	Standard Details and Drawings for the Development of Temporary Traffic Control Plans	FIGURE MLR-2 MULTIPLE LANE ROAD INTERIOR LANE CLOSURE W/ UNEVEN VOLUMES NOT TO SCALE



BICYCLE LANE CLOSURE
WITHOUT DETOUR

massDOT Highway Division	Standard Details and Drawings for the Development of Temporary Traffic Control Plans	FIGURE BIK-1 BICYCLE LANE CLOSURE WTHOUT DETOUR NOT TO SCALE

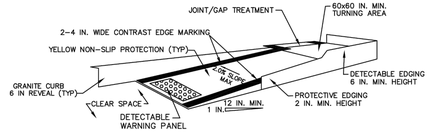


PAVED SHOULDER
CLOSURE WITH BICYCLE
DETOUR ONTO PATH

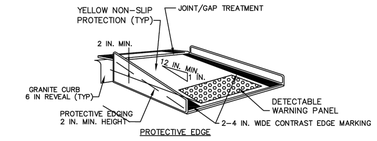
massDOT Highway Division	Standard Details and Drawings for the Development of Temporary Traffic Control Plans	FIGURE BIK-5 PAVED SHOULDER CLOSURE WITH BICYCLE DETOUR ONTO PATH NOT TO SCALE

NOTES:

1. CURB RAMPS SHALL BE 60 IN. MINIMUM WIDTH WITH A FIRM, STABLE AND NON-SLIP SURFACE.
2. PROTECTIVE EDGING WITH A 2 IN. MINIMUM HEIGHT SHALL BE INSTALLED WHEN THE CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6 IN. OR GREATER OR HAS A SIDE APRON SLOP STEEPER THAN 1:3 (33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN THE CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3 IN. OR MORE.
3. DETECTABLE EDGING WITH 6 IN. 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 48x48 IN. 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 IN. WIDTH.
9. CHANGES BETWEEN SURFACE HEIGHTS SHOULD NOT EXCEED 0.5 IN. LATERAL EDGES SHOULD BE VERTICAL UP TO 0.25 IN. HIGH, AND BEVELED AT 1:2 BETWEEN 0.25 IN. AND 0.5 IN. HEIGHT.
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.

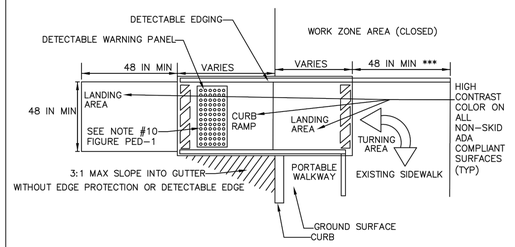


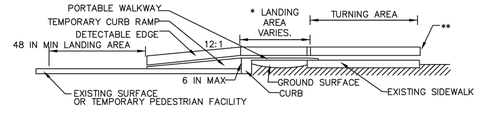
TEMPORARY CURB RAMP-PARALLEL TO CURB



TEMPORARY CURB RAMP-PERPENDICULAR TO CURB

massDOT Highway Division	**Standard Details and Drawings for the Development of TemporaryTraffic Control Plans**	**FIGURE Ped-1** **TEMPORARY PEDESTRIAN RAMP DETAILS** NOT TO SCALE





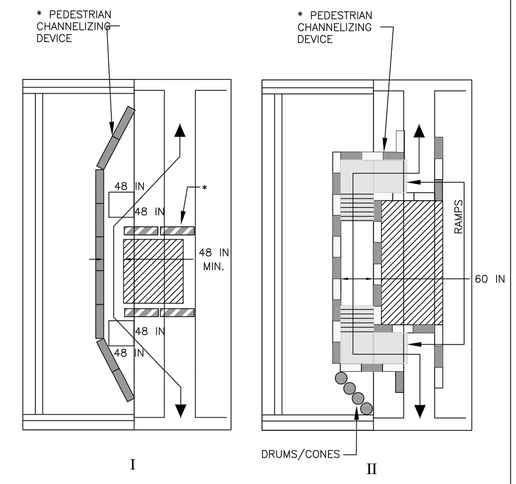
TEMPORARY CURB RAMP

* -LANDING AREA USED TO OVERLAP NON-ADA COMPLIANT SURFACES.

** -DETECTABLE EDGE REMOVED IF A CONTINUOUS SIDEWALK.

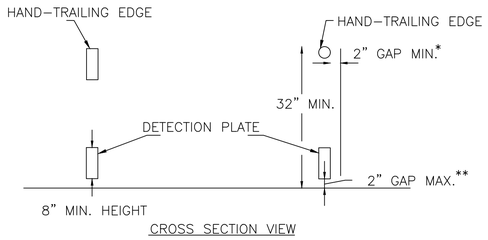
*** -60 IN. IF AN OBSTRUCTION IS AT BACK OF SIDEWALK

massDOT Highway Division	**Standard Details and Drawings for the Development of TemporaryTraffic Control Plans**	**FIGURE Ped-2** **TEMPORARY PEDESTRIAN RAMP DETAILS** NOT TO SCALE



massDOT Highway Division	**Standard Details and Drawings for the Development of TemporaryTraffic Control Plans**	**FIGURE Ped-3** **TEMPORARY PEDESTRIAN WALKWAY DETAILS** NOT TO SCALE

20121457A70_TMP01.DWG Plotted on 5-May-2023 4:28 PM



PEDESTRIAN CHANNELIZING DEVICE

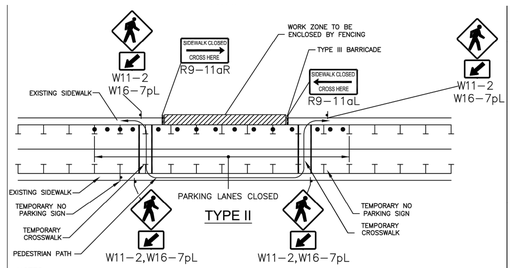
NOTES:

* THERE SHALL BE A 2 INCH GAP BETWEEN THE HAND–TRAILING EDGE AND ITS SUPPORT.

** A MAXIMUM 2 INCH GAP BETWEEN THE BOTTOM OF THE BOTTOM RAIL AND THE SURFACE MAY BE USED TO PROVIDE DRAINAGE.

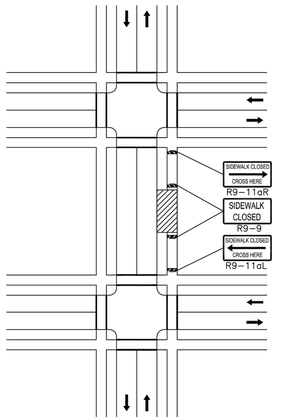
PEDESTRIAN DETAILS

massDOT Massachusetts Department of Transportation Highway Division	Standard Details and Drawings for the Development of Temporary Traffic Control Plans	FIGURE PED-4 PEDESTRIAN DETAILS NOT TO SCALE



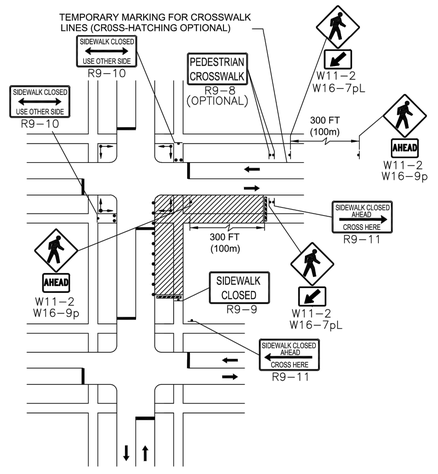
NOTES
1. ADDITIONAL ADVANCE WARNING MAY BE NECESSARY.
2. CONTROLS ONLY FOR PEDESTRIAN TRAFFIC ARE SHOWN. VEHICULAR TRAFFIC SHOULD BE HANDLED AS SHOWN ELSEWHERE.
3. STREET LIGHTING SHOULD BE CONSIDERED WHEN LOCATING CONTROL DEVICES.
4. IF THE WORK ZONE DOES NOT PERMIT PEDESTRIANS TO TRAVEL ADJACENT TO IT AS SHOWN IN PEDESTRIAN BYPASS TYPE I, TEMPORARY CROSSWALKS WITH APPROPRIATE SIGNS SHOULD BE INSTALLED TO CROSS PEDESTRIANS TO THE OPPOSITE SIDE OF THE STREET AS SHOWN IN PEDESTRIAN BYPASS TYPE II, AND AS DIRECTED BY THE ENGINEER. TEMPORARY CURB RAMPS WILL BE REQUIRED AT ALL TEMPORARY CROSSWALK LOCATIONS.
5. BYPASS IS TO BE USED IN CONJUCTION WITH THE PROPOSED LANE CLOSURE DETAILS AND DURING CONSTRUCTION STAGING, AS DIRECTED BY THE ENGINEER.
6. THE TEMPORARY SIDEWALK SHOULD BE A MINIMUM OF 4 FEET WIDE. IF THIS WALKWAY EXCEEDS 200 FEET THEN A 5 FOOT X 5 FOOT PASSING ZONE. (FOR SHORT TERM SETUPS < 10 HOURS, THIS CONDITION MAY BE WAIVED. A NOTE WOULD NEED TO BE INCLUDED IN THE TTCP THAT STATES HOW THE CONTRACTOR SHOULD ADDRESS THIS ISSUE.)

massDOT Massachusetts Department of Transportation Highway Division	Standard Details and Drawings for the Development of Temporary Traffic Control Plans	FIGURE PED-7 PEDESTRIAN BYPASS NOT TO SCALE



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

massDOT Massachusetts Department of Transportation Highway Division	Standard Details and Drawings for the Development of Temporary Traffic Control Plans	FIGURE PED-5 SIDEWALK CLOSED WITHOUT DETOUR NOT TO SCALE



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

massDOT Massachusetts Department of Transportation Highway Division	Standard Details and Drawings for the Development of Temporary Traffic Control Plans	FIGURE PED-6 PEDESTRIAN DETOUR NOT TO SCALE

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	118	358
PROJECT FILE NO.	608717		

TEMPORARY TRAFFIC CONTROL PLANS

IDENTIFI-CATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (in)			COLOR			SIGN FACE AREA (S.F.)
	WIDTH (IN)	HEIGHT (IN)		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.	BACK-GROUND	LEGEND	BORDER	
R3-7R	30	30		SEE FHWA 2004 STANDARD HIGHWAY SIGNS MANUAL & 2012 SUPPLEMENT (ENGLISH VERSION)			WHITE	BLACK	BLACK	6.25
R3-7L	30	30					WHITE	BLACK	BLACK	6.25
R3-17	24	18					WHITE	BLACK	BLACK	3.00
R3-17bP	24	8					WHITE	BLACK	BLACK	1.33
R4-7	24	30					WHITE	BLACK	BLACK	5.00
R4-11	30	30					WHITE	BLACK	BLACK	6.25
R9-8	36	18					WHITE	BLACK	BLACK	4.50
R9-9	30	18					WHITE	BLACK	BLACK	3.75
R9-10	48	24					WHITE	BLACK	BLACK	8.00
R9-11L	48	24					WHITE	BLACK	BLACK	8.00
R9-11R	48	24					WHITE	BLACK	BLACK	8.00
R9-11aL	48	24					WHITE	BLACK	BLACK	8.00
R9-11aR	48	24					WHITE	BLACK	BLACK	8.00
W1-4L	36	36					FLRSCNT. ORANGE	BLACK	BLACK	9.00
W1-4R	36	36					FLRSCNT. ORANGE	BLACK	BLACK	9.00
W1-4bL	36	36					FLRSCNT. ORANGE	BLACK	BLACK	9.00
W1-4bR	36	36					FLRSCNT. ORANGE	BLACK	BLACK	9.00

IDENTIFI-CATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (in)			COLOR			SIGN FACE AREA (S.F.)
	WIDTH (IN)	HEIGHT (IN)		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.	BACK-GROUND	LEGEND	BORDER	
W4-2L	36	36		SEE FHWA 2004 STANDARD HIGHWAY SIGNS MANUAL & 2012 SUPPLEMENT (ENGLISH VERSION)			FLRSCNT. ORANGE	BLACK	BLACK	9.00
W4-2R	36	36					FLRSCNT. ORANGE	BLACK	BLACK	9.00
W4-7L	36	36					FLRSCNT. ORANGE	BLACK	BLACK	9.00
W4-7R	36	36					FLRSCNT. ORANGE	BLACK	BLACK	9.00
W5-1	36	36					FLRSCNT. ORANGE	BLACK	BLACK	9.00
W8-1	36	36					FLRSCNT. ORANGE	BLACK	BLACK	9.00
W8-3	36	36					FLRSCNT. ORANGE	BLACK	BLACK	9.00
W8-8	36	36					FLRSCNT. ORANGE	BLACK	BLACK	9.00
W11-2	30	30					FLRSCNT. YELLOW GREEN	BLACK	BLACK	6.25
W13-1P	24	24					FLRSCNT. ORANGE	BLACK	BLACK	4.00
W16-7PL	24	12					FLRSCNT. YELLOW GREEN	BLACK	BLACK	2.00
W16-9P	24	12					FLRSCNT. YELLOW GREEN	BLACK	BLACK	2.00
W20-4	36	36					FLRSCNT. ORANGE	BLACK	BLACK	9.00
W20-5L	36	36					FLRSCNT. ORANGE	BLACK	BLACK	9.00

TYPICAL CONSTRUCTION SIGNING

N.T.S.

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IDENTIFI-CATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (in)			COLOR			SIGN FACE AREA (S.F.)
	WIDTH (IN)	HEIGHT (IN)		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.	BACK-GROUND	LEGEND	BORDER	
W20-5R	36	36		SEE FHWA 2004 STANDARD HIGHWAY SIGNS MANUAL & 2012 SUPPLEMENT (ENGLISH VERSION)			FLRSCNT. ORANGE	BLACK	BLACK	9.00
W20-7a	36	36					FLRSCNT. ORANGE	BLACK	BLACK	9.00
MA-W20-7b	36	36		SEE MassDOT 2016 STANDARD SIGNS BOOK			FLRSCNT. ORANGE	BLACK	BLACK	9.00
W21-5aL	36	36		SEE FHWA 2004 STANDARD HIGHWAY SIGNS MANUAL & 2012 SUPPLEMENT (ENGLISH VERSION)			FLRSCNT. ORANGE	BLACK	BLACK	9.00
W21-5aR	36	36					FLRSCNT. ORANGE	BLACK	BLACK	9.00
W21-5bR	36	36					FLRSCNT. ORANGE	BLACK	BLACK	9.00
MA-W21-5c	36	36		SEE MassDOT 2016 STANDARD SIGNS BOOK			FLRSCNT. ORANGE	BLACK	BLACK	9.00

FIXED CONSTRUCTION WARNING SIGN PLAN

IDENTIFI-CATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (in)			ESTIMATED NUMBER OF SIGNS REQUIRED	COLOR			SIGN FACE AREA (S.F.)	TOTAL AREA (S.F.)
	WIDTH (IN)	HEIGHT (IN)		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK-GROUND	LEGEND	BORDER		
MA-R2-10a	48	36		SEE MassDOT 2016 STANDARD SIGNS BOOK			7	FLRSCNT. ORANGE WHITE	BLACK BLACK	BLACK BLACK	12.00	84.00
MA-R2-10e	36	48		SEE MassDOT 2016 STANDARD SIGNS BOOK			12	FLRSCNT. ORANGE/ WHITE	BLACK	BLACK	9.00	108.00
W20-1	36	36		SEE FHWA 2004 STANDARD HIGHWAY SIGNS MANUAL & 2012 SUPPLEMENT (ENGLISH VERSION)			15	FLRSCNT. ORANGE	BLACK	BLACK	12.00	180.00

TYPICAL CONSTRUCTION SIGNING

N.T.S.

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	120	358
	PROJECT FILE NO. 608717		

TEMPORARY TRAFFIC CONTROL PLANS

N

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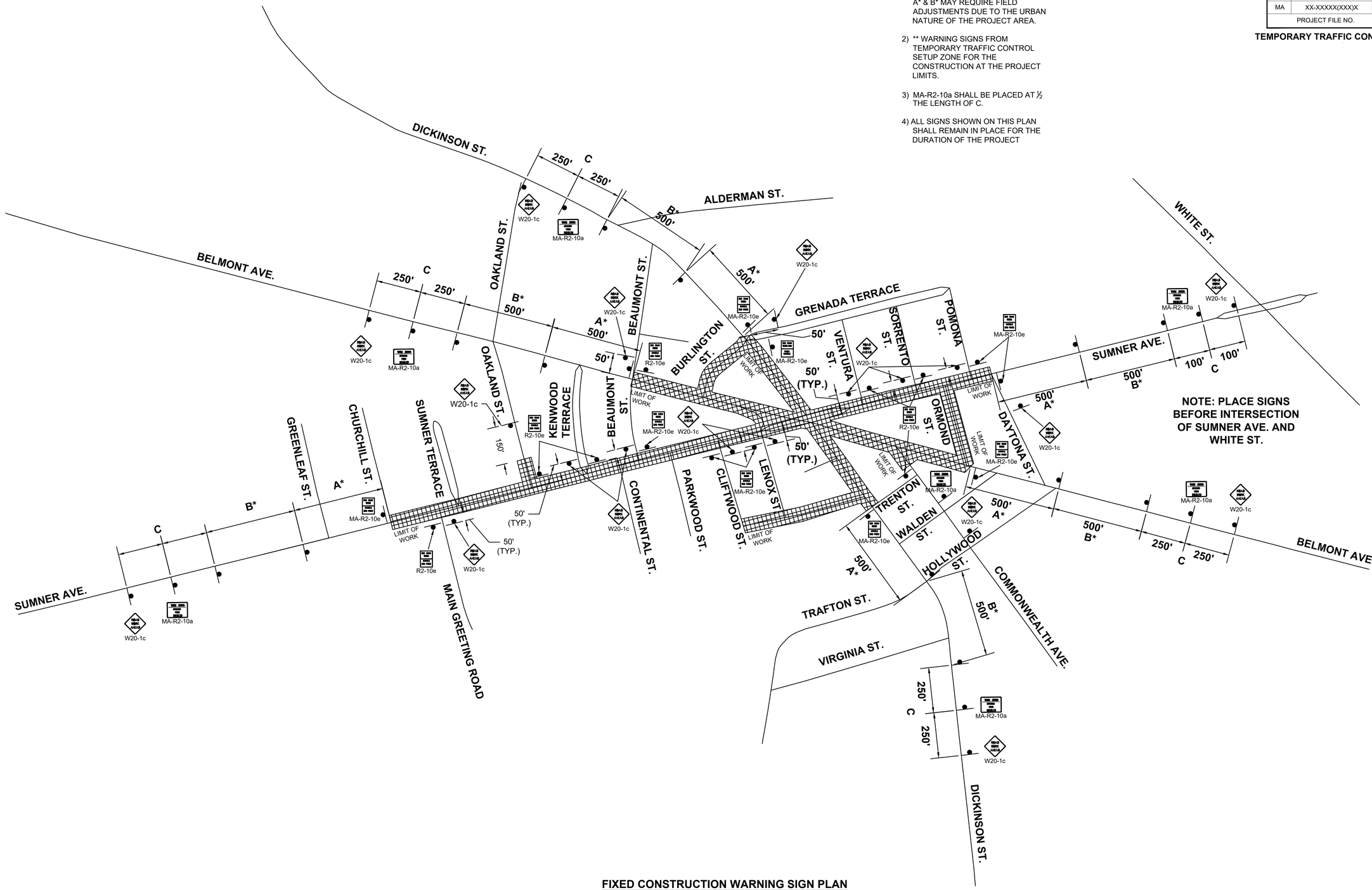
CONSTRUCTION SIGN NOTES:

1) * FOR DISTANCES SEE TABLE ON SHEET 113. THE DIMENSIONS FOR A* & B* MAY REQUIRE FIELD ADJUSTMENTS DUE TO THE URBAN NATURE OF THE PROJECT AREA.

2) ** WARNING SIGNS FROM TEMPORARY TRAFFIC CONTROL SETUP ZONE FOR THE CONSTRUCTION AT THE PROJECT LIMITS.

3) MA-R2-10a SHALL BE PLACED AT ½ THE LENGTH OF C.

4) ALL SIGNS SHOWN ON THIS PLAN SHALL REMAIN IN PLACE FOR THE DURATION OF THE PROJECT



NOTE: PLACE SIGNS BEFORE INTERSECTION OF SUMNER AVE. AND WHITE ST.

FIXED CONSTRUCTION WARNING SIGN PLAN

SCALE: 1" = 250'

DRAIN, SEWER, & WATER NOTES:

1. THE SPRINGFIELD WATER & SEWER COMMISSION (SWSC) SHALL COMPLETE ALL HYDRANT ADJUSTMENTS, HYDRANT RELOCATIONS, REPLACEMENT OR REPAIR OF RESIDENTIAL WATER SERVICE LINES, REPLACEMENT OF GATE BOXES/VALVES, AND ANY OTHER WORK ON EXISTING WATER AND SEWER UTILITIES THAT IS BEYOND THE SCOPE OF STANDARD ADJUSTMENTS/REBUILDS.

   IT WILL BE NECESSARY FOR THE CONTRACTOR TO COORDINATE WITH SWSC DURING MILLING/RECONSTRUCTION OPERATIONS.

2. THE SWSC IS **NOT** PART OF DIGSAFE. THE CONTRACTOR SHOULD REQUEST THE MARK OUT OF UNDERGROUND WATER AND SEWER UTILITIES IN THE RIGHT OF WAY BY CONTACTING THE SWSC'S FIELD SERVICES OFFICE AT: 71 COLTON ST. BY CALLING 413-787-6206, A MINIMUM OF 72 HOURS BEFORE ANY EXCAVATION.

3. IF EXISTING PIPES SHOWN TO BE REMOVED ARE WITHIN THE LIMITS OF NEW PIPE TRENCH EXCAVATION THAN THE REMOVAL COST OF THE OLD PIPES SHALL BE INCLUDED IN THE UNIT COST FOR THE NEW PIPE THAT IS BEING INSTALLED. IF PIPES SHOWN TO BE REMOVED ARE OUTSIDE THE LIMITS OF NEW PIPE TRENCH (AS DETERMINED BY THE ENGINEER) THAN REMOVAL COST SHALL BE PAID UNDER ITEM 141. CLASS A TRENCH EXCAVATION.

4. ALL PROPOSED (NEW) CATCH BASINS SHALL HAVE 4' SUMPS UNLESS DEEMED INFEASIBLE DUE TO UTILITY CONFLICTS AS DETERMINED BY THE ENGINEER.

5. ALL CATCH BASINS WITHIN THE PAVED ROADWAY SHALL HAVE CASCADE STYLE/BICYCLE SAFE GRATES UNLESS OTHERWISE NOTED ON THE PLANS.

6. PROPOSED STATIONS/OFFSETS SHOWN ARE TO THE CENTER OF THE GRATE/COVER.

7. PROPOSED MUNICIPAL CATCH BASINS (MCB) AND MUNICIPAL CATCH BASIN CURB INLETS (MCBCI) SHALL BE INSTALLED IN PLACE OF EXISTING CATCH BASINS FOR WHICH PAYMENT SHALL INCLUDE PIPE REPLACEMENT AS NEEDED TO TIE INTO THE EXISTING SYSTEM. THE INTENT IS TO REPLACE THE OLD STRUCTURES WHILE MAINTAINING THE EXISTING PIPE NETWORK CONNECTIONS. REFER TO CONTRACT SPECIFICATIONS FOR MORE INFORMATION.

8. EXCAVATION FOR PROPOSED TREES SHALL NOT EXCEED 4' DEEP FROM STA. 2+00 TO 19+25 RT TO AVOID EXISTING SEWER LINE.

EVERSOURCE NOTES:

9. EVERSOURCE SHALL PROVIDE AND INSTALL: LIGHT POLES, FIXTURE ARM, LIGHT FIXTURE, PROVIDE MATERIALS, PULL, & INSTALL ALL WIRING FOR PROPOSED STREET LIGHTS AND PEDESTRIAN LEVEL LIGHTS. THIS INCLUDES ANY NECESSARY SERVICE CONNECTIONS AND POLE RISERS. ALL POLES AND FIXTURES MUST BE FACTORY COATED BLACK.

10. THE CONTRACTOR SHALL PROVIDE AND INSTALL: NEW FOUNDATIONS, UNDERGROUND CONDUIT, & PULL BOXES FOR THE LIGHTING SYSTEM AS SHOWN ON THE PLANS. THIS INCLUDES EXCAVATION, BEDDING, AND BACKFILL MATERIALS. THE CONTRACTOR SHALL NOT CONNECT DIRECTLY TO EVERSOURCE ELECTRIC MANHOLES WITHOUT EVERSOURCE OVERSIGHT, CONDUIT SHALL BE FURNISHED WITHIN 5 FEET OF ELECTRIC MANHOLES.

11. SPECIALTY ACCENT AND UPLIGHTING ITEMS LOCATED IN THE SUMNER AVE PLAZAS SHALL BE PROVIDED BY THE CONTRACTOR, NOT BY EVERSOURCE.

GENERAL NOTES:

12. SEE TRAFFIC SIGNAL PLANS FOR PROPOSED EQUIPMENT AND RELATED UTILITY INSTALLATIONS

13. IF EXISTING PIPES SHOWN TO BE REMOVED ARE WITHIN THE LIMITS OF NEW PIPE TRENCH EXCAVATION THAN THE REMOVAL COST OF THE OLD PIPES SHALL BE INCLUDED IN THE UNIT COST FOR THE NEW PIPE THAT IS BEING INSTALLED. IF PIPES SHOWN TO BE REMOVED ARE OUTSIDE THE LIMITS OF NEW PIPE TRENCH (AS DETERMINED BY THE ENGINEER) THAN REMOVAL COST SHALL BE PAID UNDER ITEM 141. CLASS A TRENCH EXCAVATION.

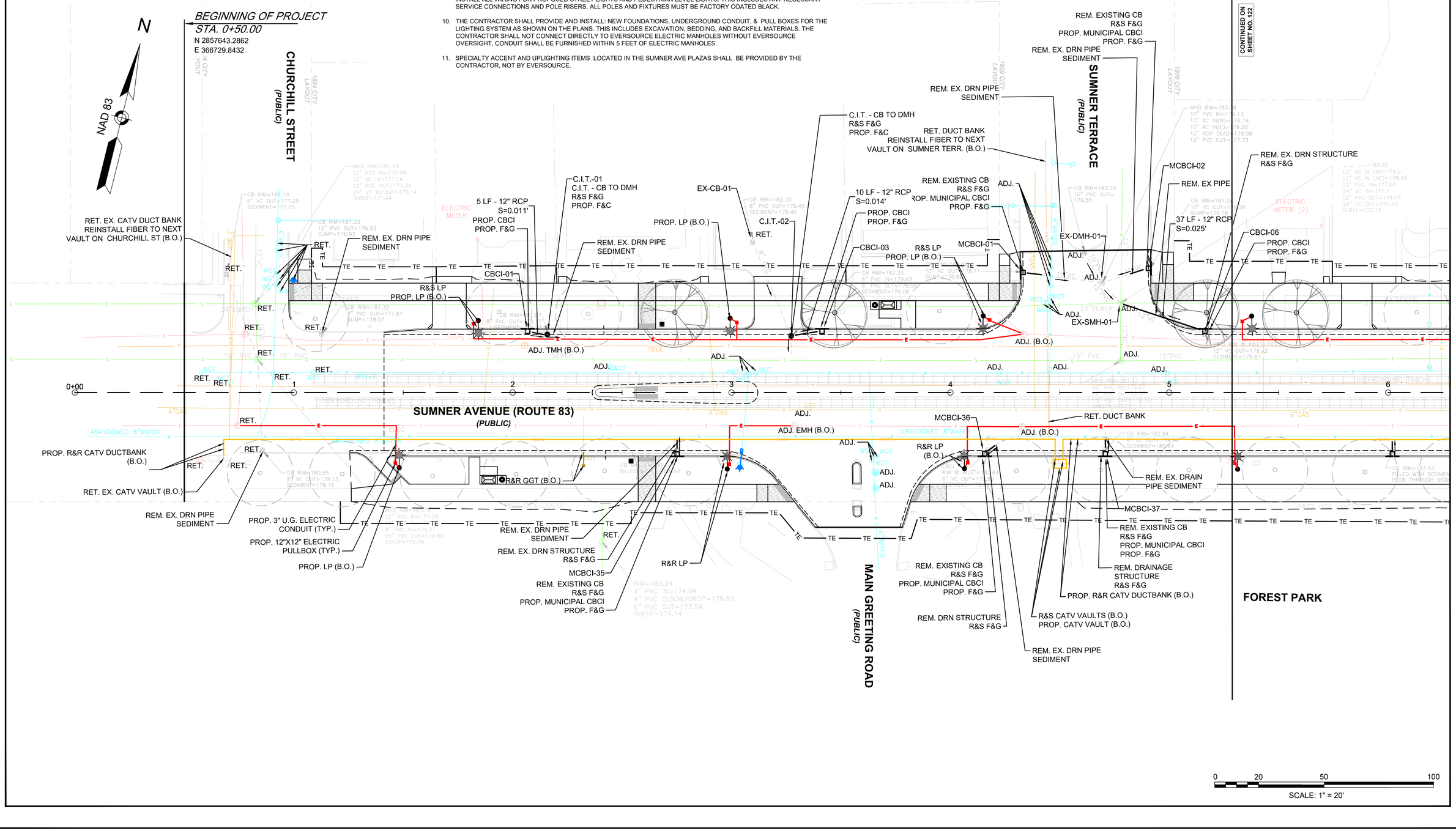
14. FOR DRAINAGE STRUCTURE TABLES SEE SHEETS 140-141

15. PROPOSED WATER MAIN & SERVICE WORK IS DETAILED ON SHEETS 142-147

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	121	358
PROJECT FILE NO.	608717		

DRAINAGE & UTILITY PLANS



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NOTE:

1.EXCAVATION FOR PROPOSED TREES SHALL NOT EXCEED 4' FROM STA. 2+00 TO 19+25 RT TO AVOID EXISTING SEWER LINE.

2. SEE TRAFFIC SIGNAL PLANS FOR PROPOSED EQUIPMENT AND RELATED UTILITY INSTALLATIONS

3. FOR DRAINAGE STRUCTURE TABLES SEE SHEETS 140-141

4. PROPOSED WATER MAIN & SERVICE WORK IS DETAILED ON SHEETS 142-147

EVERSOURCE NOTES:

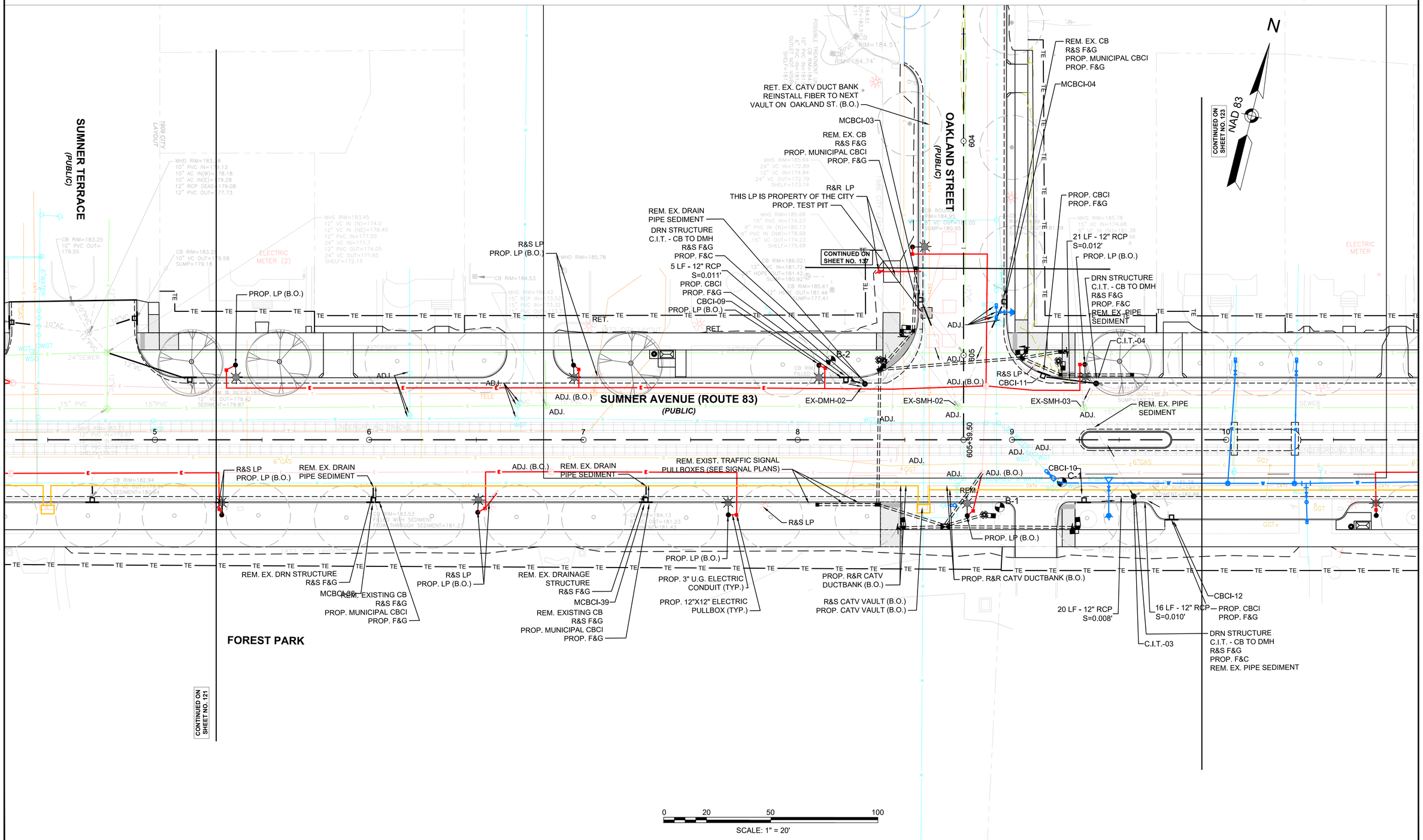
1. EVERSOURCE SHALL PROVIDE AND INSTALL: LIGHT POLES, FIXTURE ARM, LIGHT FIXTURE, PROVIDE MATERIALS, PULL, & INSTALL ALL WIRING FOR PROPOSED STREET LIGHTS AND PEDESTRIAN LEVEL LIGHTS. THIS INCLUDES ANY NECESSARY SERVICE CONNECTIONS AND POLE RISERS. ALL POLES AND FIXTURES MUST BE FACTORY COATED BLACK.

2. THE CONTRACTOR SHALL PROVIDE AND INSTALL: NEW FOUNDATIONS, UNDERGROUND CONDUIT, & PULL BOXES FOR THE LIGHTING SYSTEM AS SHOWN ON THE PLANS. THIS INCLUDES EXCAVATION, BEDDING, AND BACKFILL MATERIALS. THE CONTRACTOR SHALL NOT CONNECT DIRECTLY TO EVERSOURCE ELECTRIC MANHOLES WITHOUT EVERSOURCE OVERSIGHT, CONDUIT SHALL BE FURNISHED WITHIN 5 FEET OF ELECTRIC MANHOLES.

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	122	358
	PROJECT FILE NO. 608717		

DRAINAGE & UTILITY PLANS



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NOTE:

1.EXCAVATION FOR PROPOSED TREES SHALL NOT EXCEED 4' FROM STA. 2+00 TO 19+25 RT TO AVOID EXISTING SEWER LINE.

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3. FOR DRAINAGE STRUCTURE TABLES SEE SHEETS 140-141

4. PROPOSED WATER MAIN & SERVICE WORK IS DETAILED ON SHEETS 142-147

EVERSOURCE NOTES:

1. EVERSOURCE SHALL PROVIDE AND INSTALL: LIGHT POLES, FIXTURE ARM, LIGHT FIXTURE. PROVIDE MATERIALS, PULL, & INSTALL ALL WIRING FOR PROPOSED STREET LIGHTS AND PEDESTRIAN LEVEL LIGHTS. THIS INCLUDES ANY NECESSARY SERVICE CONNECTIONS AND POLE RISERS. ALL POLES AND FIXTURES MUST BE FACTORY COATED BLACK.

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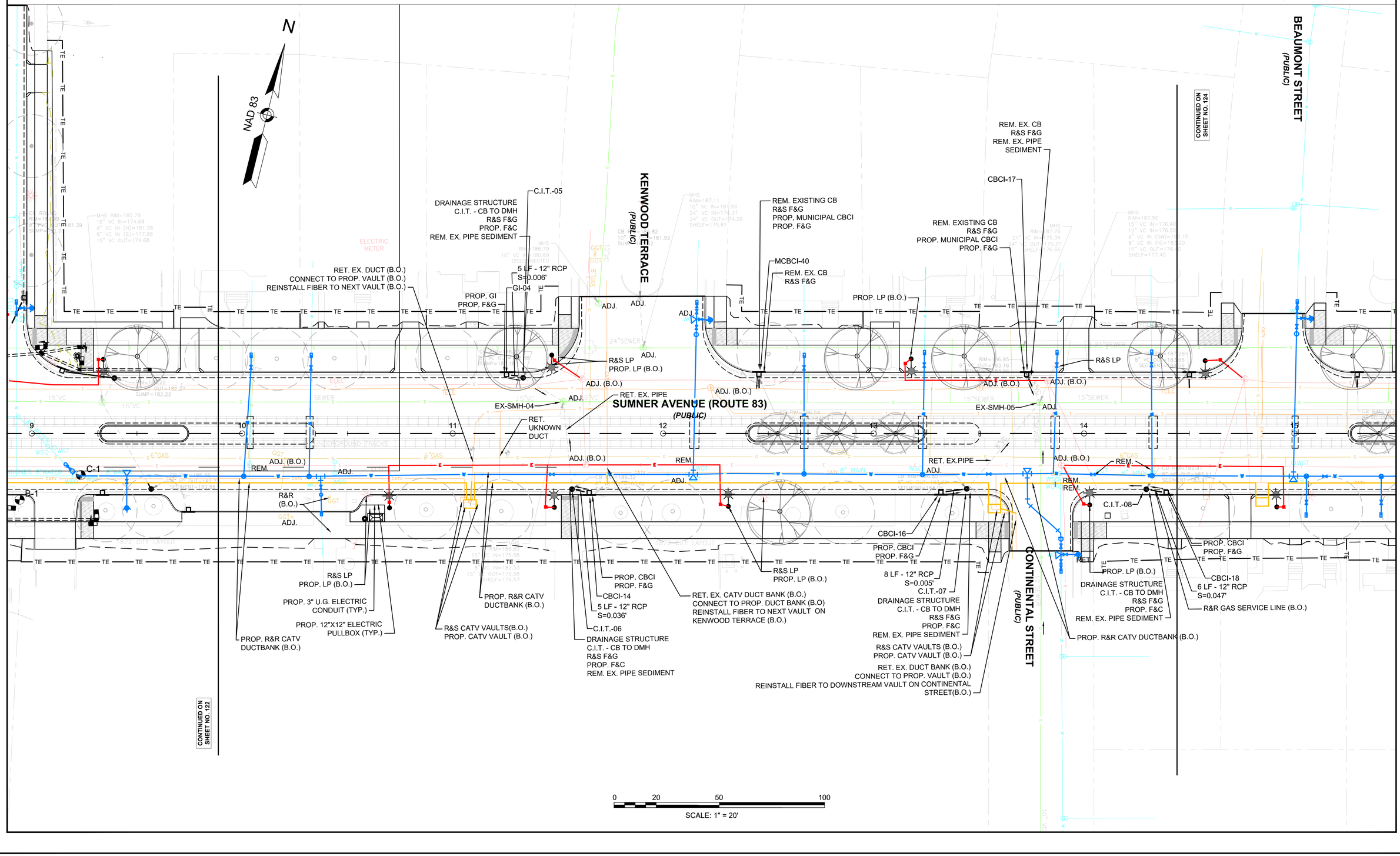
SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	123	358
	PROJECT FILE NO. 608717		

DRAINAGE & UTILITY PLANS



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NOTE:

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2. SEE TRAFFIC SIGNAL PLANS FOR PROPOSED EQUIPMENT AND RELATED UTILITY INSTALLATIONS

3. FOR DRAINAGE STRUCTURE TABLES SEE SHEETS 140-141

4. PROPOSED WATER MAIN & SERVICE WORK IS DETAILED ON SHEETS 142-147

EVERSOURCE NOTES:

1. EVERSOURCE SHALL PROVIDE AND INSTALL: LIGHT POLES, FIXTURE ARM, LIGHT FIXTURE, PROVIDE MATERIALS, PULL, & INSTALL ALL WIRING FOR PROPOSED STREET LIGHTS AND PEDESTRIAN LEVEL LIGHTS. THIS INCLUDES ANY NECESSARY SERVICE CONNECTIONS AND POLE RISERS. ALL POLES AND FIXTURES MUST BE FACTORY COATED BLACK.

2. THE CONTRACTOR SHALL PROVIDE AND INSTALL: NEW FOUNDATIONS, UNDERGROUND CONDUIT, & PULL BOXES FOR THE LIGHTING SYSTEM AS SHOWN ON THE PLANS. THIS INCLUDES EXCAVATION, BEDDING, AND BACKFILL MATERIALS. THE CONTRACTOR SHALL NOT CONNECT DIRECTLY TO EVERSOURCE ELECTRIC MANHOLES WITHOUT EVERSOURCE OVERSIGHT, CONDUIT SHALL BE FURNISHED WITHIN 5 FEET OF ELECTRIC MANHOLES.

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	124	358
	PROJECT FILE NO. 608717		

DRAINAGE & UTILITY PLANS

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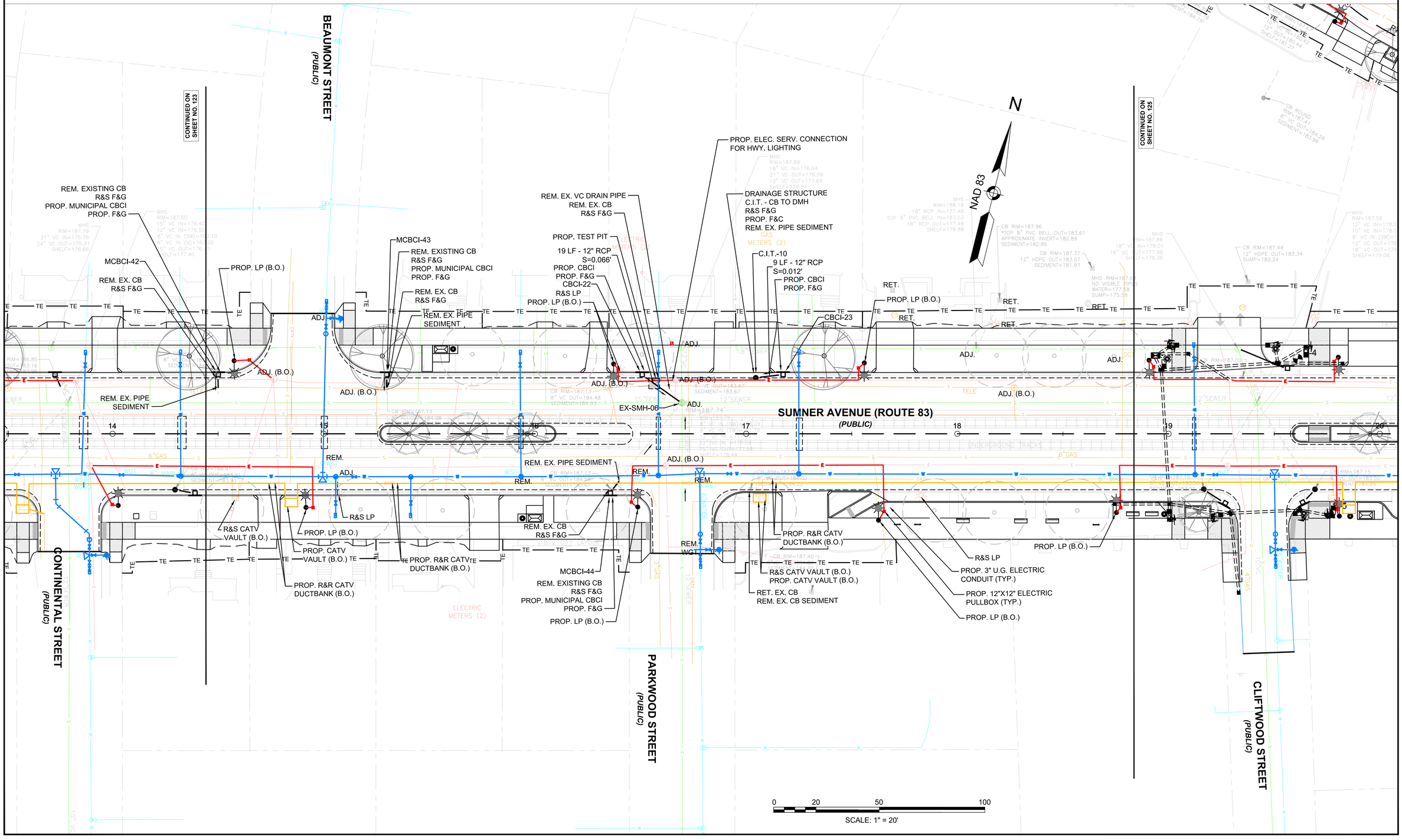

NOTE:

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2. SEE TRAFFIC SIGNAL PLANS FOR PROPOSED EQUIPMENT AND RELATED UTILITY INSTALLATIONS

3. FOR DRAINAGE STRUCTURE TABLES SEE SHEETS 140-141

4. PROPOSED WATER MAIN & SERVICE WORK IS DETAILED ON SHEETS 142-147

EVERSOURCE NOTES:

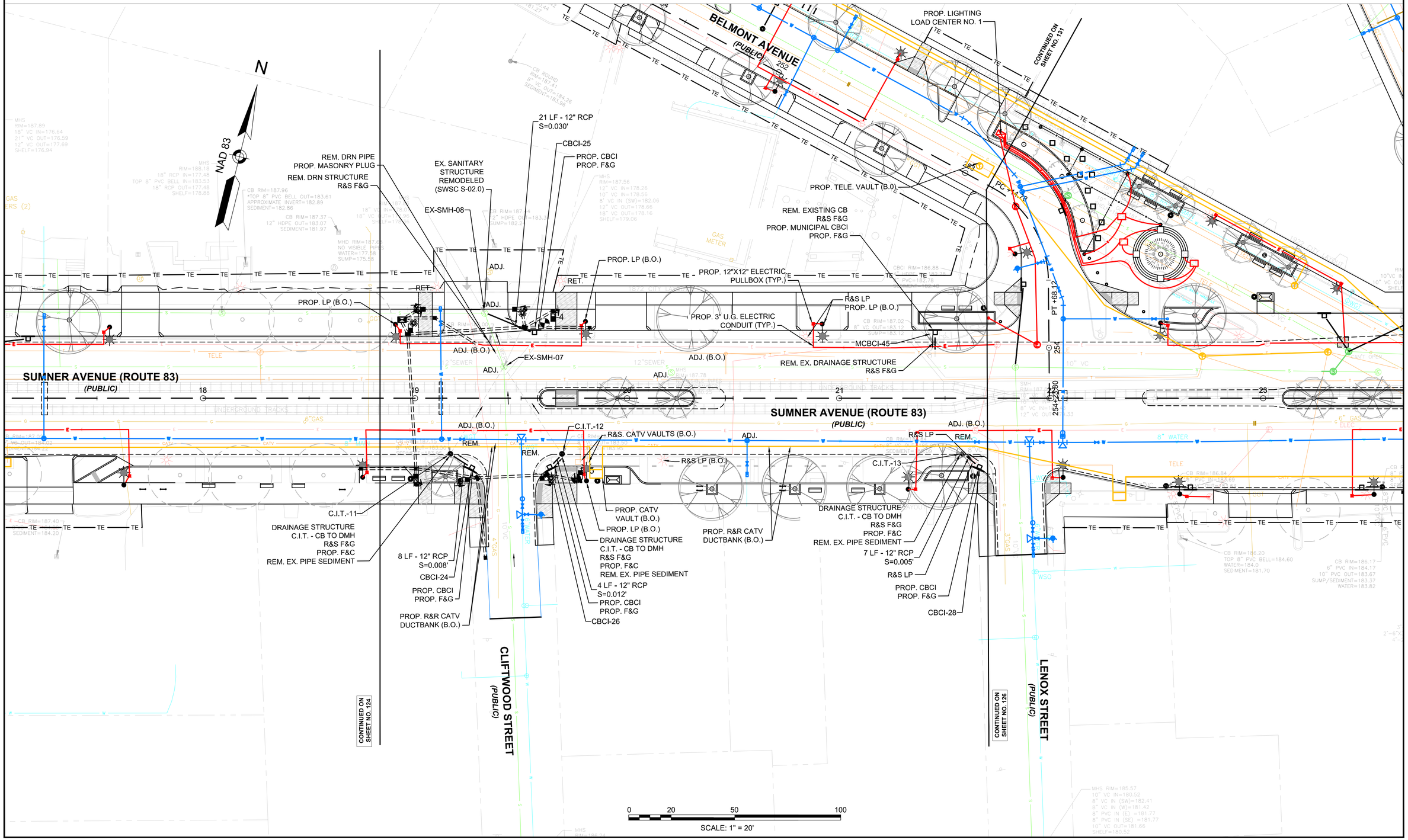
1. EVERSOURCE SHALL PROVIDE AND INSTALL: LIGHT POLES, FIXTURE ARM, LIGHT FIXTURE, PROVIDE MATERIALS, PULL, & INSTALL ALL WIRING FOR PROPOSED STREET LIGHTS AND PEDESTRIAN LEVEL LIGHTS. THIS INCLUDES ANY NECESSARY SERVICE CONNECTIONS AND POLE RISERS. ALL POLES AND FIXTURES MUST BE FACTORY COATED BLACK.

2. THE CONTRACTOR SHALL PROVIDE AND INSTALL: NEW FOUNDATIONS, UNDERGROUND CONDUIT, & PULL BOXES FOR THE LIGHTING SYSTEM AS SHOWN ON THE PLANS. THIS INCLUDES EXCAVATION, BEDDING, AND BACKFILL MATERIALS. THE CONTRACTOR SHALL NOT CONNECT DIRECTLY TO EVERSOURCE ELECTRIC MANHOLES WITHOUT EVERSOURCE OVERSIGHT, CONDUIT SHALL BE FURNISHED WITHIN 5 FEET OF ELECTRIC MANHOLES.

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	125	358
PROJECT FILE NO.	608717		

DRAINAGE & UTILITY PLANS



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NOTE:

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2. SEE TRAFFIC SIGNAL PLANS FOR PROPOSED EQUIPMENT AND RELATED UTILITY INSTALLATIONS

3. SEE STREETSCAPING PLANS SHEETS 215-216 FOR MORE LIGHTING EQUIPMENT DETAILS WITHIN THE LANDSCAPED PLAZA

4.FOR DRAINAGE STRUCTURE TABLES SEE SHEETS 140-141

5.PROPOSED WATER MAIN & SERVICE WORK IS DETAILED ON SHEETS 142-147

EVERSOURCE NOTES:

1. EVERSOURCE SHALL PROVIDE AND INSTALL: LIGHT POLES, FIXTURE ARM, LIGHT FIXTURE, PROVIDE MATERIALS, PULL, & INSTALL ALL WIRING FOR PROPOSED STREET LIGHTS AND PEDESTRIAN LEVEL LIGHTS. THIS INCLUDES ANY NECESSARY SERVICE CONNECTIONS AND POLE RISERS. ALL POLES AND FIXTURES MUST BE FACTORY COATED BLACK.

2. THE CONTRACTOR SHALL PROVIDE AND INSTALL: NEW FOUNDATIONS, UNDERGROUND CONDUIT, & PULL BOXES FOR THE LIGHTING SYSTEM AS SHOWN ON THE PLANS. THIS INCLUDES EXCAVATION, BEDDING, AND BACKFILL MATERIALS. THE CONTRACTOR SHALL NOT CONNECT DIRECTLY TO EVERSOURCE ELECTRIC MANHOLES WITHOUT EVERSOURCE OVERSIGHT, CONDUIT SHALL BE FURNISHED WITHIN 5 FEET OF ELECTRIC MANHOLES.

3. SPECIALTY ACCENT AND UPLIGHTING ITEMS LOCATED IN THE SUMNER AVE PLAZAS SHALL BE PROVIDED BY THE CONTRACTOR, NOT BY EVERSOURCE.

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	126	358
PROJECT FILE NO.	608717		

DRAINAGE & UTILITY PLANS

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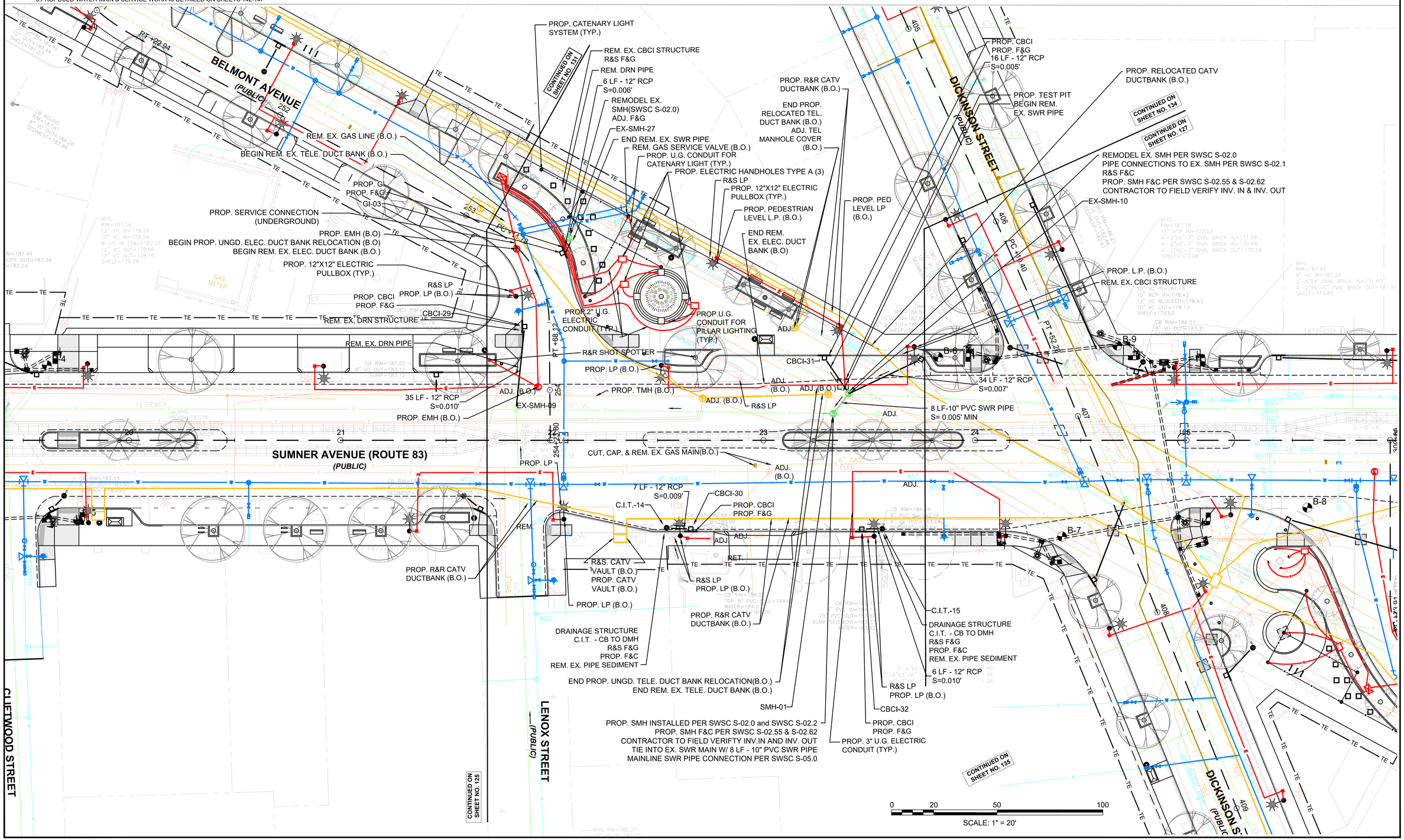


NOTE:

1.EXCAVATION FOR PROPOSED TREES SHALL NOT EXCEED 4' FROM STA. 2+00 TO 19+25 RT TO AVOID EXISTING SEWER LINE.

2. SEE TRAFFIC SIGNAL PLANS FOR PROPOSED EQUIPMENT AND RELATED UTILITY INSTALLATIONS

3. SEE STREETSCAPING PLANS SHEETS 215-216 FOR MORE LIGHTING EQUIPMENT DETAILS WITHIN THE LANDSCAPED PLAZA

4. FOR DRAINAGE STRUCTURE TABLES SEE SHEETS 140-141

5. PROPOSED WATER MAIN & SERVICE WORK IS DETAILED ON SHEETS 142-147

EVERSOURCE NOTES:

1. EVERSOURCE SHALL PROVIDE AND INSTALL: LIGHT POLES, FIXTURE ARM, LIGHT FIXTURE, PROVIDE MATERIALS, PULL, & INSTALL ALL WIRING FOR PROPOSED STREET LIGHTS AND PEDESTRIAN LEVEL LIGHTS. THIS INCLUDES ANY NECESSARY SERVICE CONNECTIONS AND POLE RISERS. ALL POLES AND FIXTURES MUST BE FACTORY COATED BLACK.

2. THE CONTRACTOR SHALL PROVIDE AND INSTALL: NEW FOUNDATIONS, UNDERGROUND CONDUIT, & PULL BOXES FOR THE LIGHTING SYSTEM AS SHOWN ON THE PLANS. THIS INCLUDES EXCAVATION, BEDDING, AND BACKFILL MATERIALS. THE CONTRACTOR SHALL NOT CONNECT DIRECTLY TO EVERSOURCE ELECTRIC MANHOLES WITHOUT EVERSOURCE OVERSIGHT. CONDUIT SHALL BE FURNISHED WITHIN 5 FEET OF ELECTRIC MANHOLES.

3. SPECIALTY ACCENT AND UPLIGHTING ITEMS LOCATED IN THE SUMNER AVE PLAZAS SHALL BE PROVIDED BY THE CONTRACTOR, NOT BY EVERSOURCE.

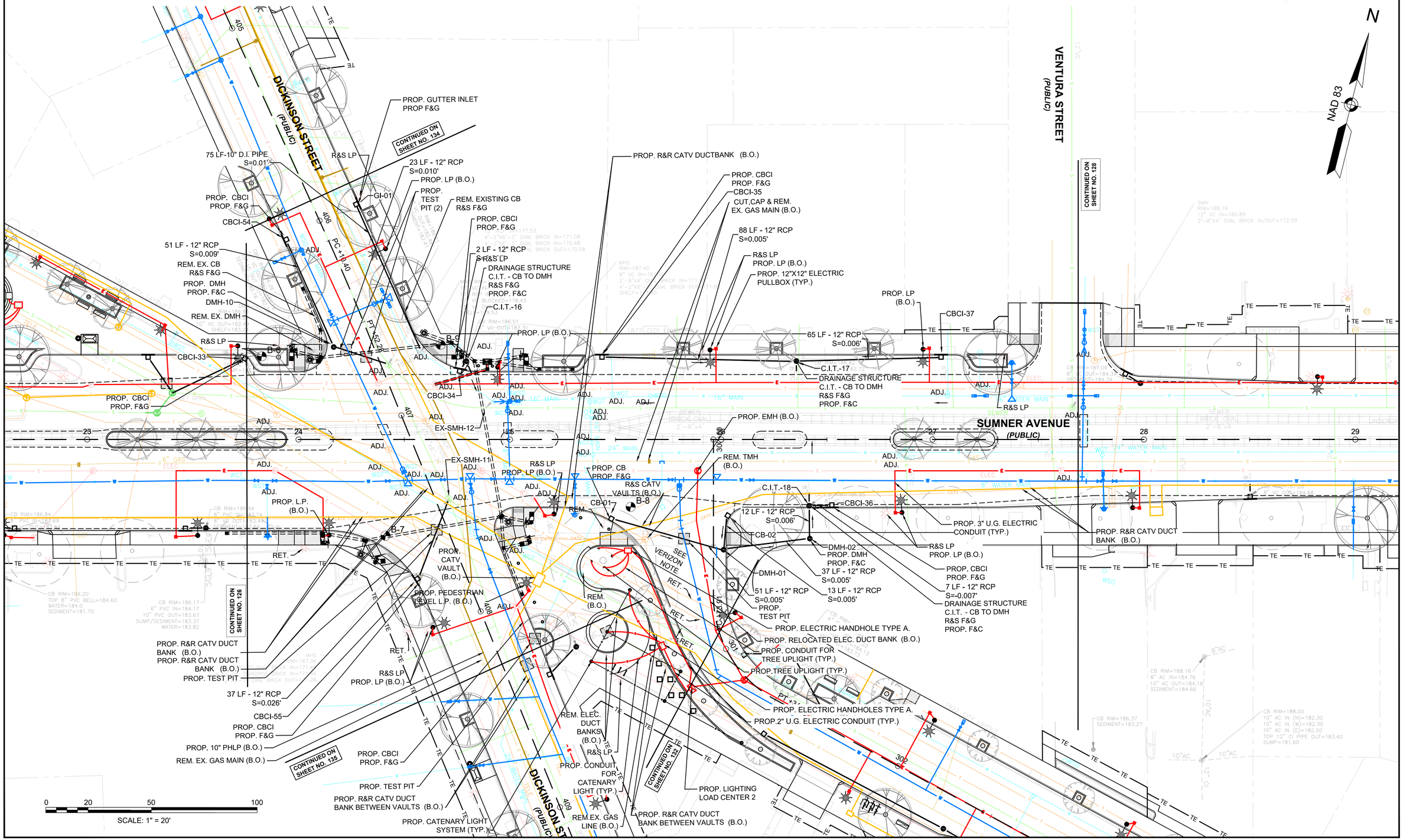
VERIZON NOTES:

1. RETAINED VERIZON DUCT BANK ON BELMONT AVE UNDERNEATH PROP. SOUTH LANDSCAPED PLAZA SHALL BE ENCASED IN CEM. CONC. WHERE FEASIBLE WITHOUT DISTURBANCE TO ROOT SYSTEM OF EXISTING SPECIMEN TREE TO BE RETAINED IN THE SOUTH PLAZA

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXX(XXX)X	127	358
PROJECT FILE NO.	608717		

DRAINAGE & UTILITY PLANS



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NOTE:

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2. SEE TRAFFIC SIGNAL PLANS FOR PROPOSED EQUIPMENT AND RELATED UTILITY INSTALLATIONS

3. FOR DRAINAGE STRUCTURE TABLES SEE SHEETS 140-141

4. PROPOSED WATER MAIN & SERVICE WORK IS DETAILED ON SHEETS 142-147

EVERSOURCE NOTES:

1. EVERSOURCE SHALL PROVIDE AND INSTALL: LIGHT POLES, FIXTURE ARM, LIGHT FIXTURE, PROVIDE MATERIALS, PULL, & INSTALL ALL WIRING FOR PROPOSED STREET LIGHTS AND PEDESTRIAN LEVEL LIGHTS. THIS INCLUDES ANY NECESSARY SERVICE CONNECTIONS AND POLE RISERS. ALL POLES AND FIXTURES MUST BE FACTORY COATED BLACK.

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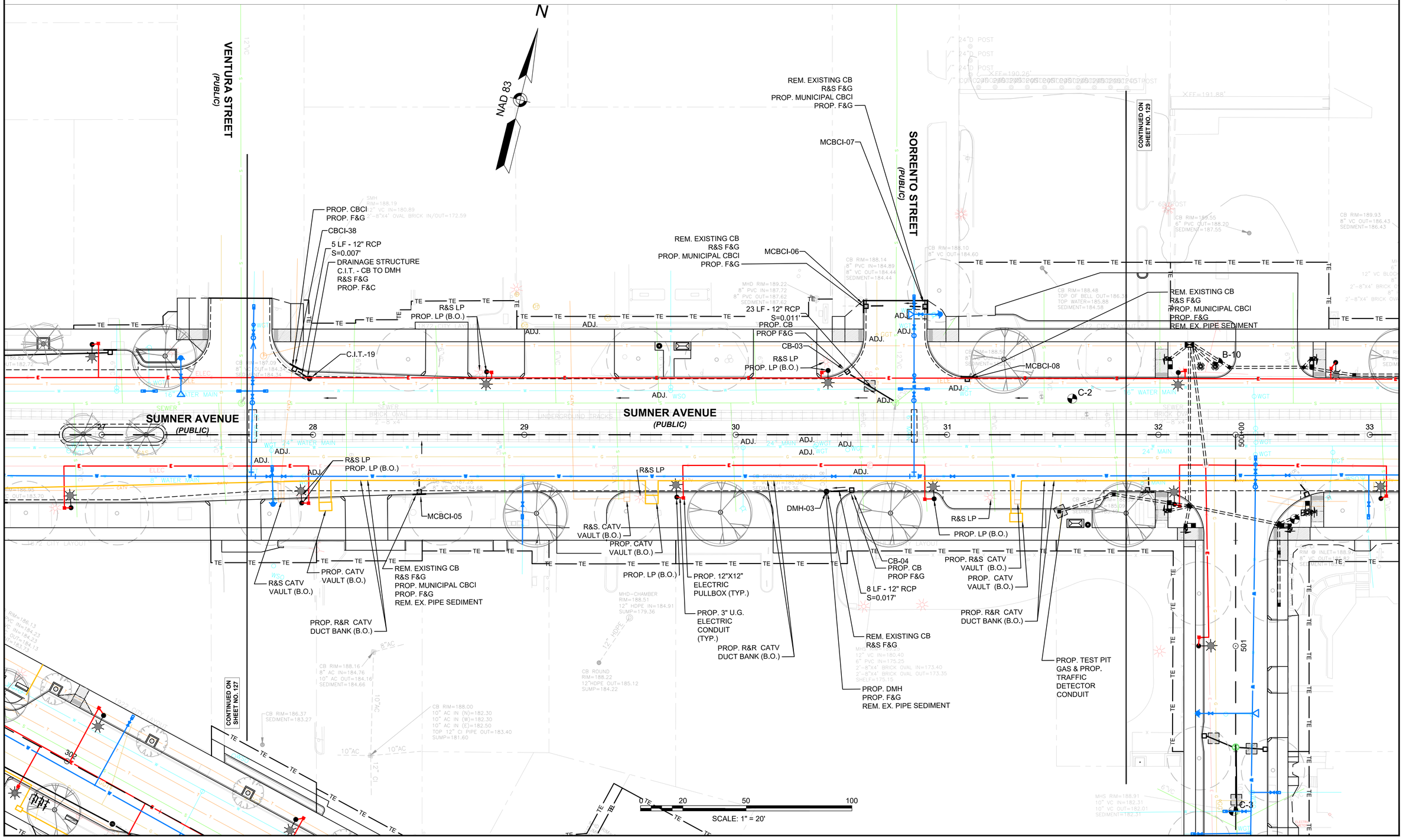
SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	128	358
PROJECT FILE NO.	608717		

DRAINAGE & UTILITY PLANS



20121457A70_UTL01_TRN.DWG Plotted on 5-May-2023 3:08 PM

NOTE:

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3. FOR DRAINAGE STRUCTURE TABLES SEE SHEETS 140-141

4. PROPOSED WATER MAIN & SERVICE WORK IS DETAILED ON SHEETS 142-147

EVERSOURCE NOTES:

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SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
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PROJECT FILE NO.	608717		

DRAINAGE & UTILITY PLANS

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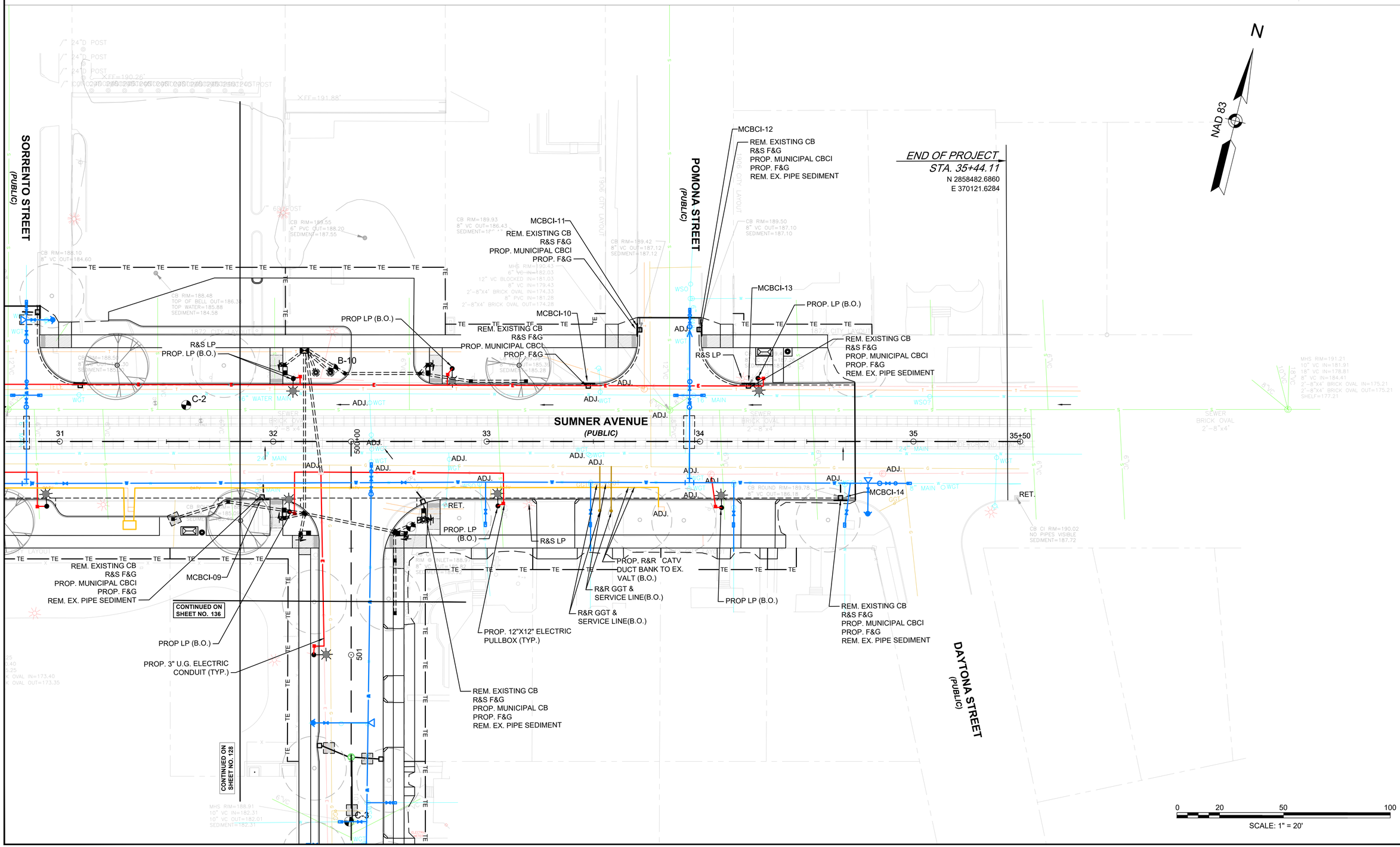

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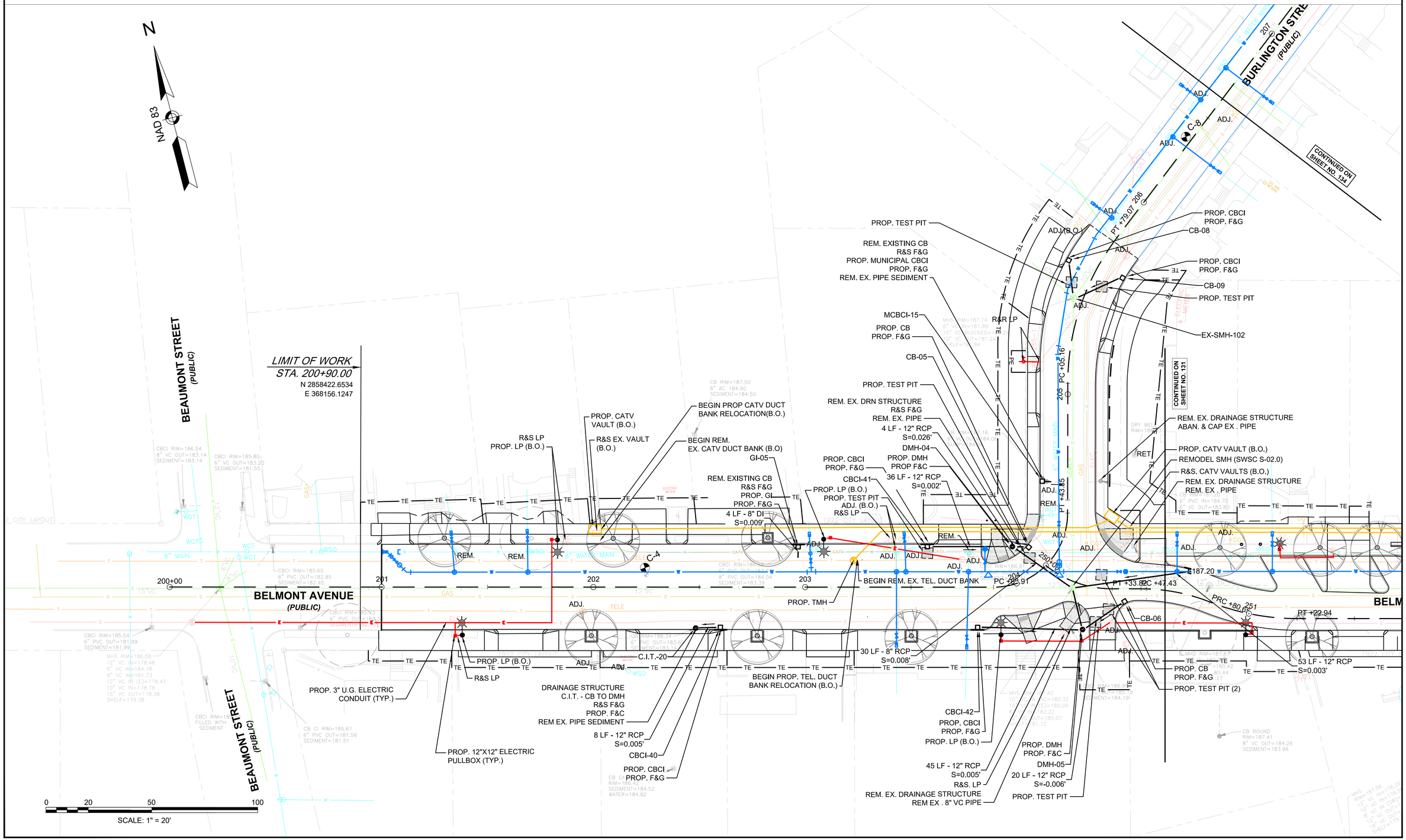
DRAINAGE & UTILITY PLANS



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SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

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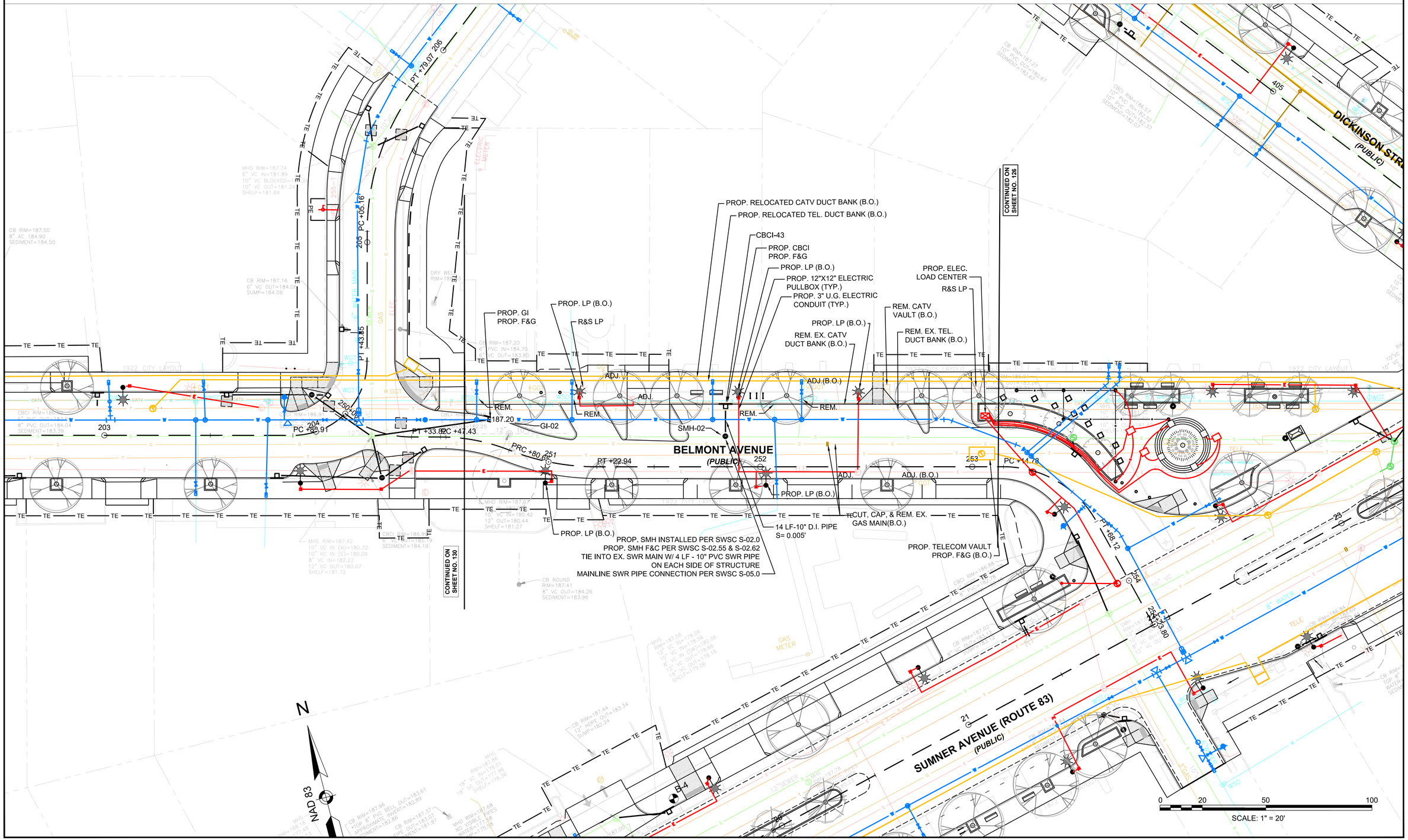
	PROJECT FILE NO. 608717		

DRAINAGE & UTILITY PLANS



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THE 'X" INTERSECTION IMPROVEMENTS

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PROJECT FILE NO.	608717		

DRAINAGE & UTILITY PLANS

SUMNER AVENUE (PUBLIC)
BELMONT AVENUE (ROUTE 83) (PUBLIC)
DICKINSON STREET (PUBLIC)
TRENTON STREET (PUBLIC)
CONTINUED ON SHEET NO. 135
CONTINUED ON SHEET NO. 133
19 LF - 12" RCP S=0.004'
C.I.T.-22
DRAINAGE STRUCTURE C.I.T. - CB TO DMH R&S F&G PROP. F&C REM. EX. PIPE SEDIMENT
PROP. CBCI PROP. F&G CBCI-45
27 LF - 12" RCP S=0.011'
R&S LP
REM.
PROP. 3" U.G. ELECTRIC CONDUIT (TYP.)
PROP. 12"X12" ELECTRIC PULLBOX (TYP.)
PROP. LP (B.O.)
PROP. LP (B.O.)
PT +34.10
PROP. CB PROP. F&G CB-10
92 LF - 12" RCP S=0.001'
ADJ.
REM. EMH
PROP. RELOCATED ELEC. DUCT BANK (B.O.)
PROP. CBCI PROP. F&G
PROP. PEDESTRIAN LEVEL L.P. (B.O.)
REM. CB
R&S LP
PROP. PED LEVEL LP (B.O.)
REM. CATV VAULT (B.O.)
CUT, CAP, & REM. EX. GAS MAIN(B.O.)
CBCI-46
PROP. CBCI PROP. F&G
PROP. CATV DUCT BANK (B.O.)
REM. CATV DUCT BANK (B.O.)
PROP. EMH PROP. ELEC. DUCT BANK (B.O.)
REM. ELEC. DUCT BANK (B.O.)
PROP. SERVICE CONNECTION (UNDERGROUND)
PROP. LIGHTING LOAD CENTER NO. 2
DMH-06
PROP. DMH PROP. F&C
PROP. CB PROP. F&G
PROP. CATV VAULT & PROP. CATV DUCT BANK (B.O.)
REM. EX. CATV DUCTBANK (B.O.)
24 LF - 10" DUCTILE IRON S=0.005'
DRAINAGE STRUCTURE C.I.T. - CB TO DMH R&S F&G PROP. F&C
28 LF - 10" DUCTILE IRON S=0.006'
C.I.T.-24
R&S LP
PROP. LP (B.O.)
PROP. LP (B.O.)
CBCI-47
CB-11
REM. ELEC. DUCT BANK (B.O.)
PROP. CATV DUCT BANK RELOCATION (B.O.)
CBCI-48
PROP. CBCI PROP. F&G
33 LF - 12" RCP S=0.024'
DRAINAGE STRUCTURE C.I.T. - CB TO DMH R&S F&G PROP. F&C
22 LF - 12" RCP S=0.001'
DRAINAGE STRUCTURE C.I.T. - CB TO DMH R&S F&G PROP. F&C
C.I.T.-26
46 LF - 12" RCP S=0.004'
CB-12
PROP. CB PROP. F&G
R&R LP
PROP. TEST PIT
PROP. CBCI PROP. F&G
CBCI-49
PROP. LP (B.O.) PROP. CB PROP. F&G
PROP. EMH (B.O.)
PROP. TEST PIT
CBCI-50
PROP. CBCI PROP. F&G
C.I.T.-25
R&S LP
PROP. EMH (B.O.) - BEGIN RELOCATE ELEC. DUCT BANK
REM. EXISTING CB R&S F&G PROP. MUNICIPAL CBCI PROP. F&G
MCBCI-16
MCBCI-17
PROP LP (B.O.)
PROP. EMH (B.O.)
PROP. ELEC. DUCT BANK (B.O)
R&S LP
REM.
PROP. EMH (B.O.)
353+14.14
R&R GGT
PC +71.35
C.I.T.-27
7 LF - 12" RCP S=0.003'
DRAINAGE STRUCTURE C.I.T. - CB TO DMH R&S F&G PROP. F&C
PROP. CB PROP. F&G
CB-13
21 LF - 12" RCP S=0.003'
REM. EXISTING CB R&S F&G PROP. MUNICIPAL CBCI PROP. F&G
REM. CATV DUCT BANK & VAULT(B.O.)
LIMIT OF WORK STA. 901+00.00 N 2957929.9642 E 369649.6683
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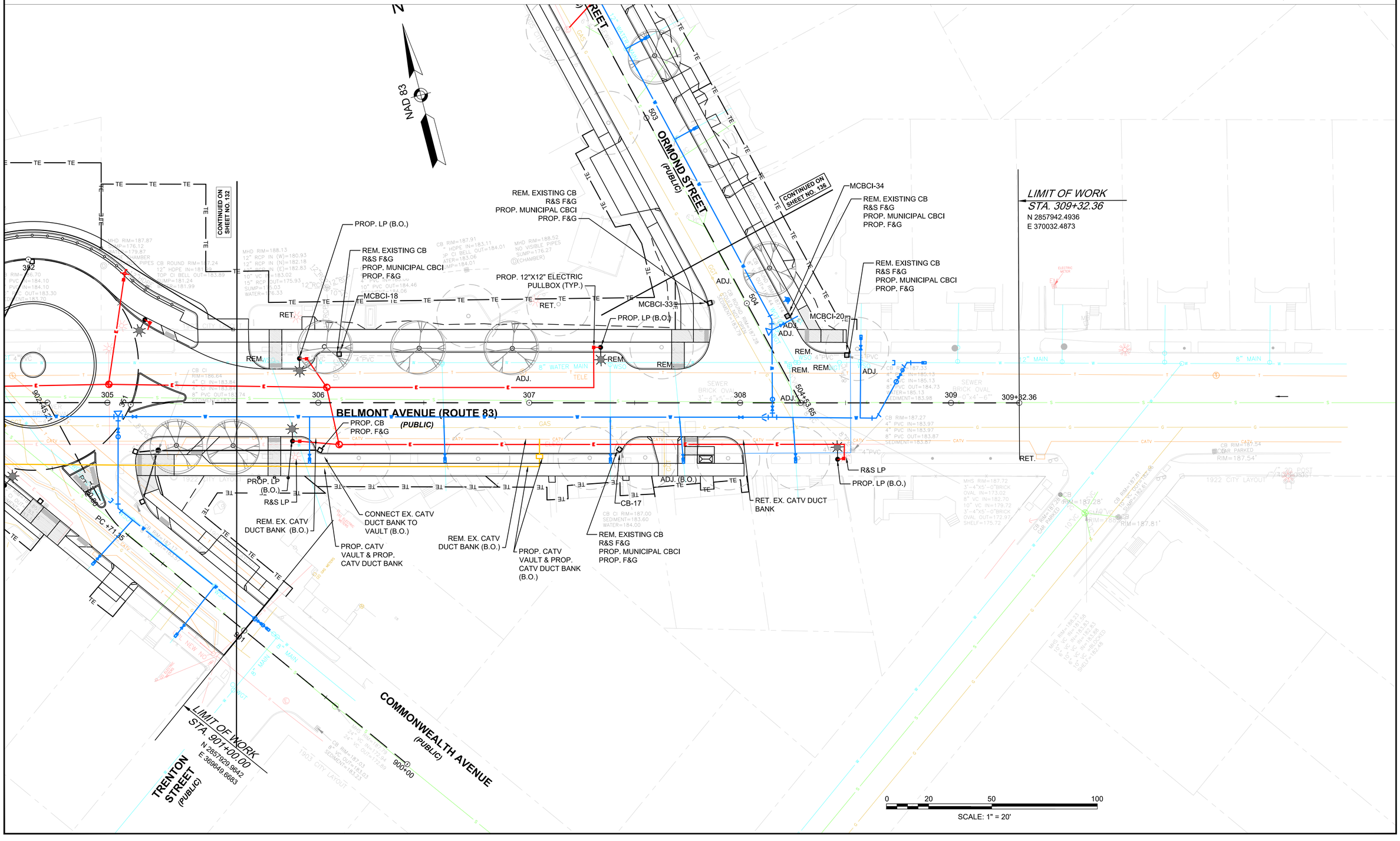
SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	133	358
PROJECT FILE NO.	608717		

DRAINAGE & UTILITY PLANS



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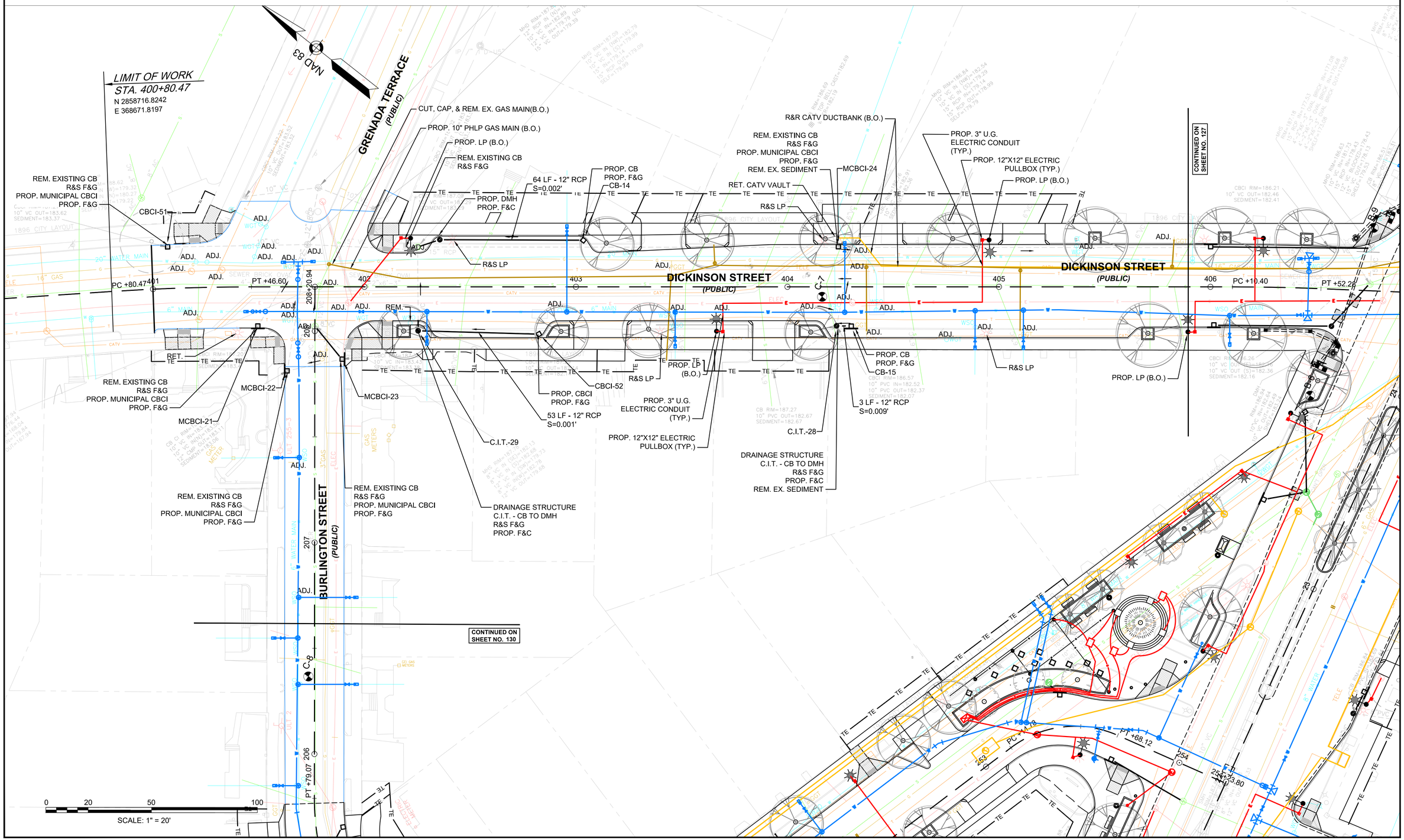
DRAINAGE & UTILITY PLANS



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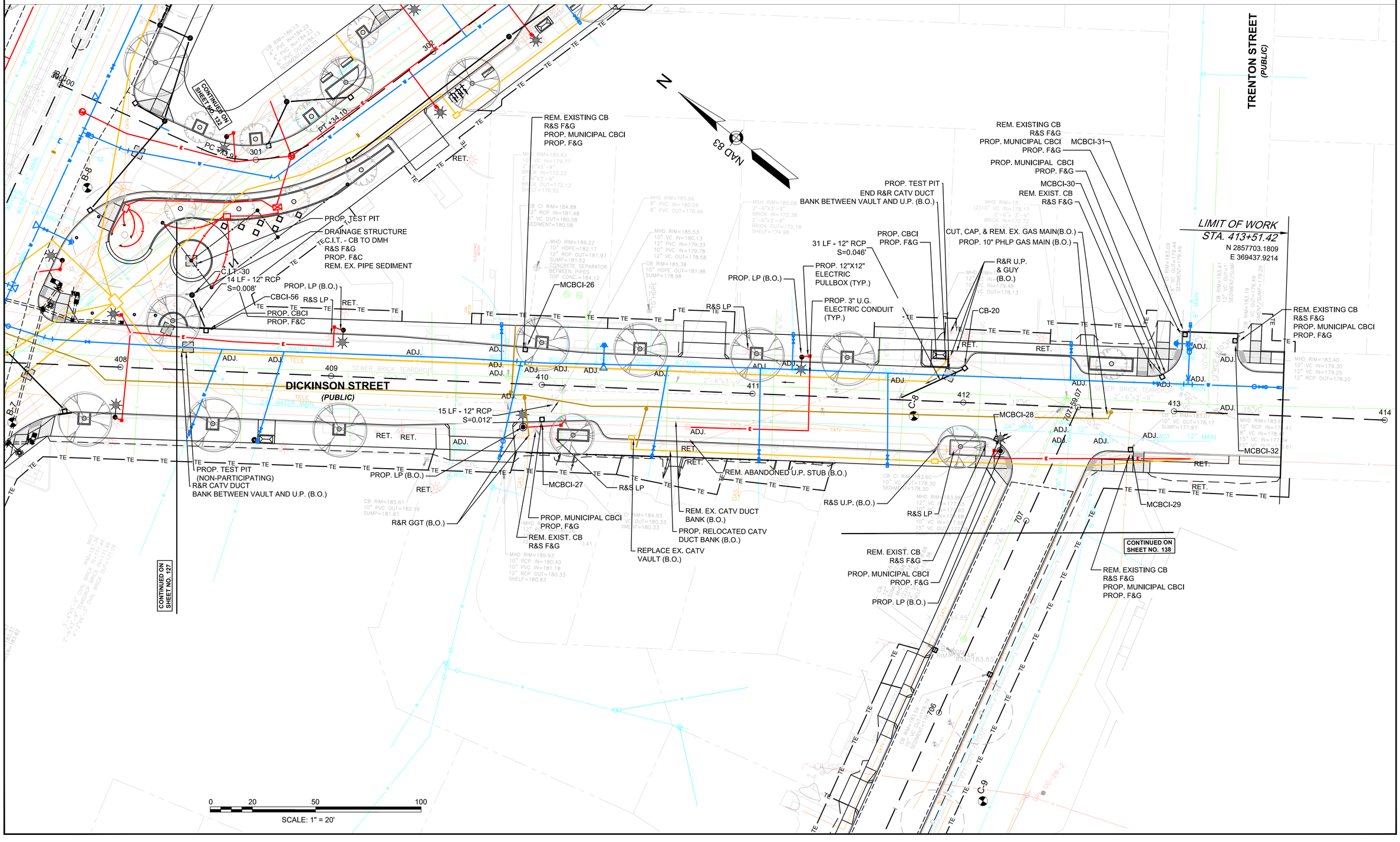

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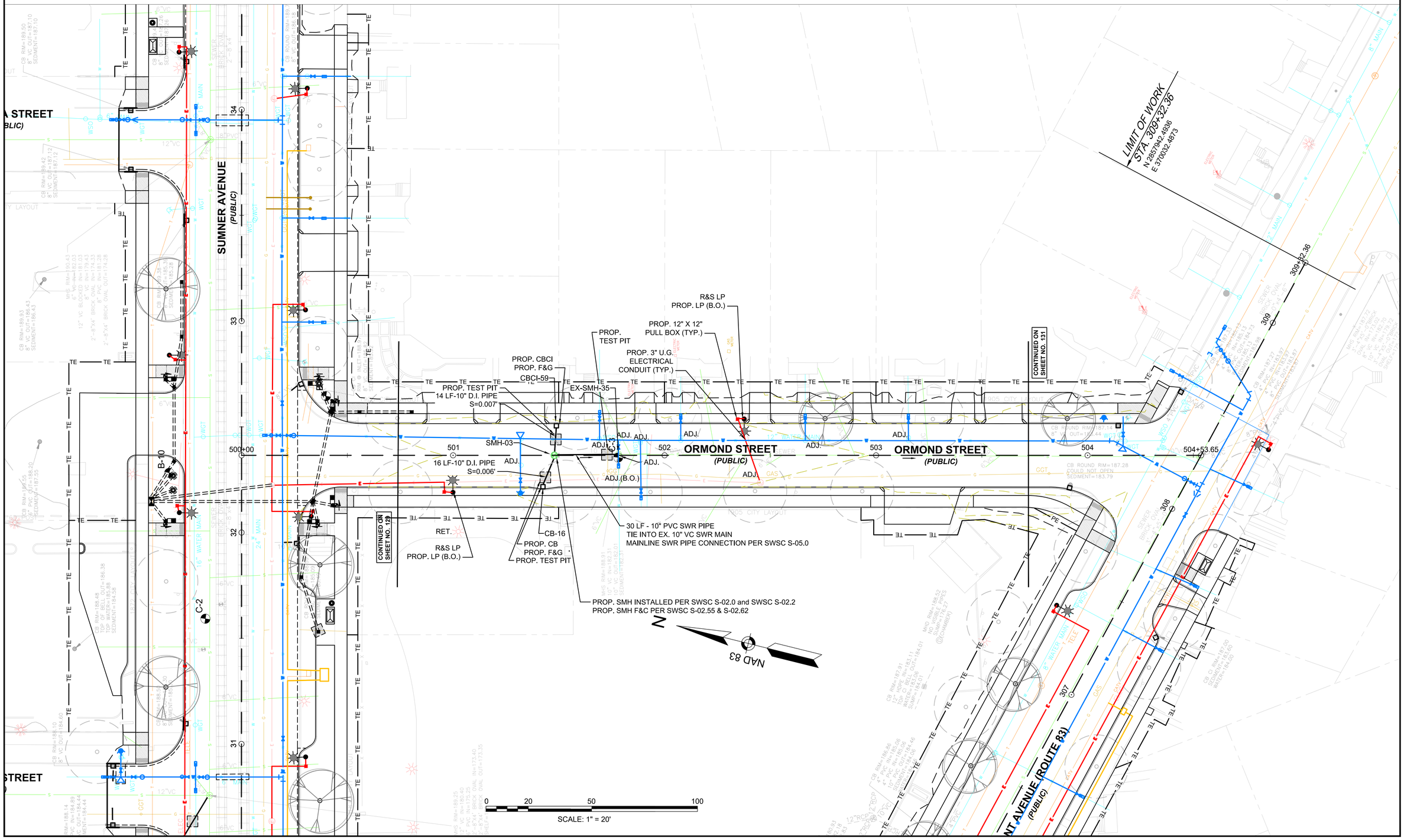

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LIMIT OF WORK
STA. 600+00.00
N 2858365.7526
E 367403.4120

NAD 83

CONTINUED ON SHEET NO. 123

CONTINUED ON SHEET NO. 122

600+00 601 602 603 604 605 605+39.50

ADJ. **OAKLAND STREET** ***(PUBLIC)***

SUMNER AVENUE (ROUTE 83) ***(PUBLIC)***

PROP. 3" U.G. ELECTRICAL CONDUIT (TYP.)

PROP. LP (B.O.)

PROP. 12"X12" HANDHOLE (TYP.)

B-2

0 20 50 100

SCALE: 1" = 20'

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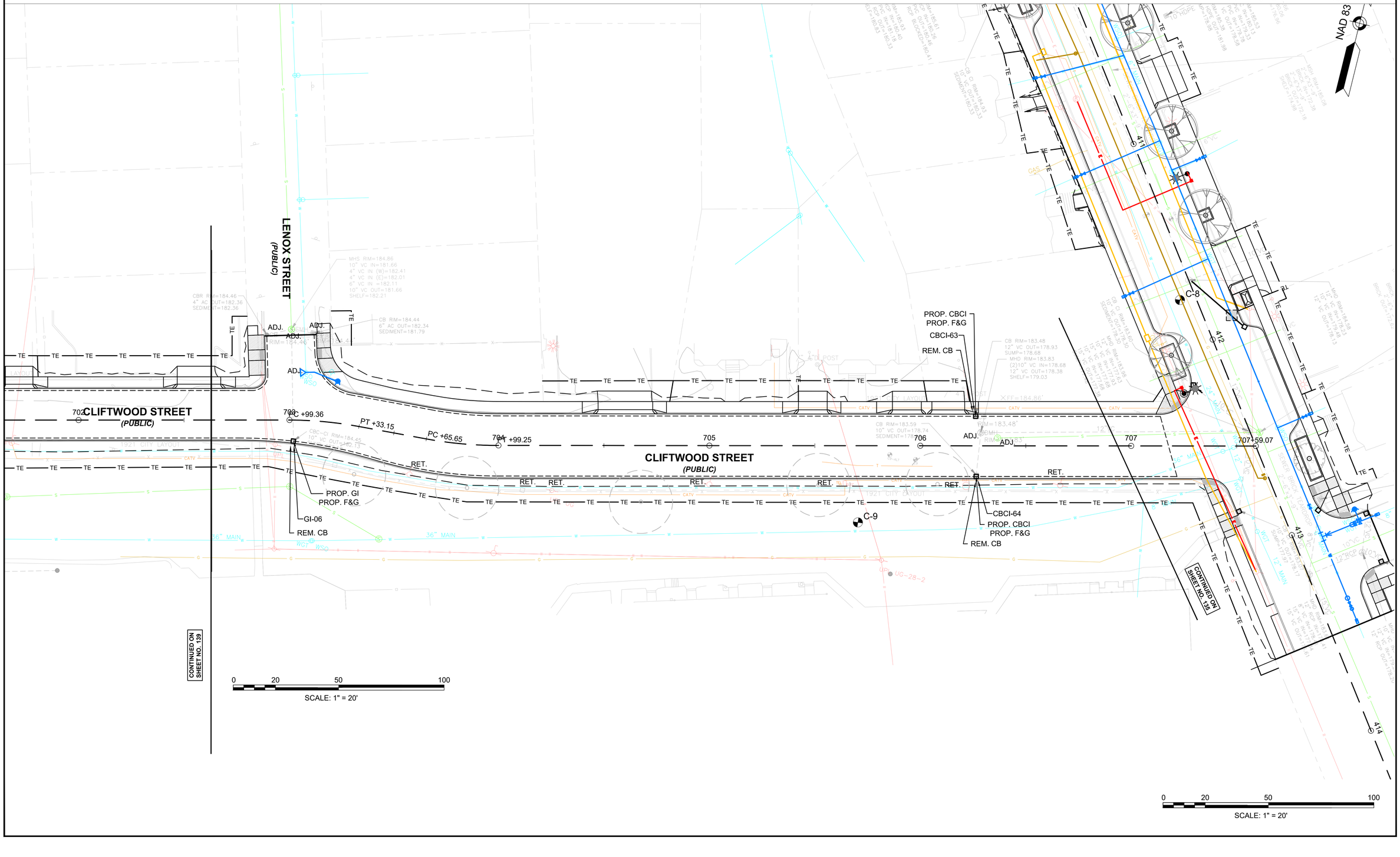

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Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: MADOT-U-NJL.STB
MS VIEW: - LAYER STATE: -

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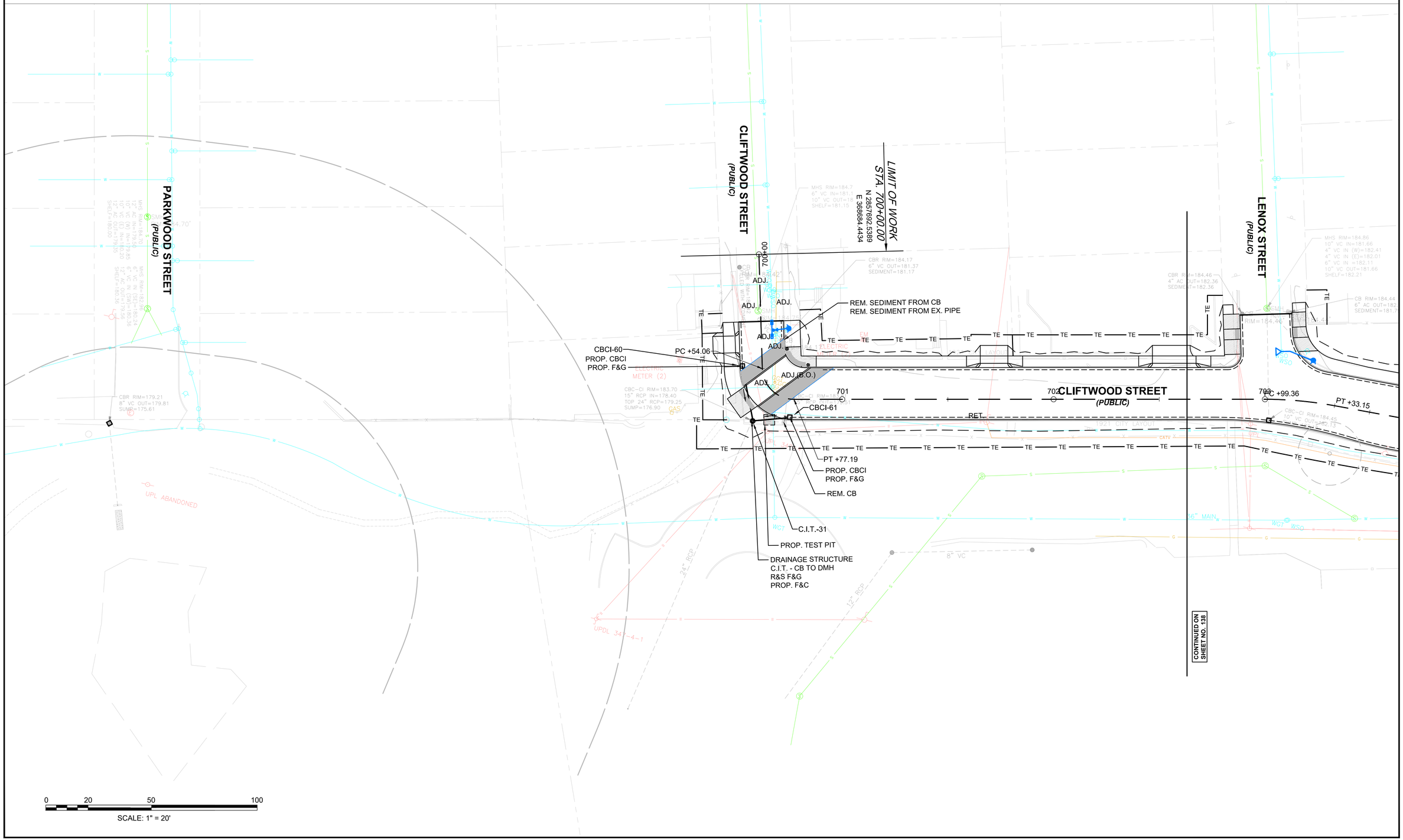
2. THE CONTRACTOR SHALL PROVIDE AND INSTALL: NEW FOUNDATIONS, UNDERGROUND CONDUIT, & PULL BOXES FOR THE LIGHTING SYSTEM AS SHOWN ON THE PLANS. THIS INCLUDES EXCAVATION, BEDDING, AND BACKFILL MATERIALS. THE CONTRACTOR SHALL NOT CONNECT DIRECTLY TO EVERSOURCE ELECTRIC MANHOLES WITHOUT EVERSOURCE OVERSIGHT, CONDUIT SHALL BE FURNISHED WITHIN 5 FEET OF ELECTRIC MANHOLES.

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	139	358
PROJECT FILE NO.	608717		

DRAINAGE & UTILITY PLANS



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DRAINAGE & UTILITY PLANS SHEET 121

DRAINAGE STRUCTURE TABLE					
NAME	STATION OFFSET	STRUCTURE DETAILS	INV. ELEV. IN	INV. ELEV. OUT	REMARKS
C.I.T.-01	2+15.83 26.5 L	RIM ELEV. = 182.08	178.27' (CBCI-01)	177.90' ()	
C.I.T.-02	3+27.34 25.9 L	RIM ELEV. = 182.49	179.63' (CBCI-03) 179.63' (EX-CB-01)	178.98' ()	FIELD VERIFY INV.OUT
CBCI-01	2+06.91 27.7 L	RIM ELEV. = 182.07		178.37' (C.I.T.-01)	
CBCI-03	3+41.38 28.1 L	RIM ELEV. = 182.68		179.83' (C.I.T.-02)	
CBCI-06	5+16.31 28.0 L	RIM ELEV. = 183.36		179.42' (EX-SMH-01)	
EX-CB-01	3+09.60 68.7 L	RIM ELEV. = 182.30		179.45' (C.I.T.-02)	
EX-DMH-01	4+69.06 50.2 L	RIM ELEV. = 183.39	179.13' (MCBCI-02) 178.18' (MCBCI-01) 179.30' ()	177.73' (EX-SMH-01)	
EX-SMH-01	4+77.85 40.8 L	RIM ELEV. = 183.39	178.40' (CBCI-06) 177.50' (EX-DMH-01)		
MCBCI-01	4+33.19 54.8 L	RIM ELEV. = 183.37		178.71' (EX-DMH-01)	
MCBCI-02	4+90.49 56.8 L	RIM ELEV. = 183.84		179.58' (EX-DMH-01)	
MCBCI-35	2+75.18 28.0 R	RIM ELEV. = 182.25			FIELD VERIFY INV.OUT
MCBCI-36	4+15.65 28.0 R	RIM ELEV. = 182.77		179.59' ()	
MCBCI-37	4+70.76 28.0 R	RIM ELEV. = 183.05		179.94' ()	

DRAINAGE & UTILITY PLANS SHEET 122

DRAINAGE STRUCTURE TABLE					
NAME	STATION OFFSET	STRUCTURE DETAILS	INV. ELEV. IN	INV. ELEV. OUT	REMARKS
C.I.T.-03	9+56.73 26.4 R	RIM ELEV. = 185.53	182.80' (CBCI-10) 182.80' (CBCI-12)	182.73' (EX-SMH-03)	
C.I.T.-04	9+39.27 26.5 L	RIM ELEV. = 185.32	182.25' (CBCI-11)	182.22' (EX-SMH-03)	
CBCI-09	8+22.53 27.8 L	RIM ELEV. = 184.90		180.90' (EX-DMH-02)	FIELD VERIFY INV.OUT
CBCI-10	9+32.94 27.7 R	RIM ELEV. = 185.64		183.00' (C.I.T.-03)	
CBCI-11	9+14.40 29.8 L	RIM ELEV. = 185.20		182.55' (C.I.T.-04)	
CBCI-12	9+74.30 36.0 R	RIM ELEV. = 185.72		183.00' (C.I.T.-03)	
EX-DMH-02	8+31.58 26.1 L	RIM ELEV. = 184.95	180.80' (CBCI-09)		FIELD VERIFY INV. OUT
EX-SMH-02	8+74.88 15.6 L	RIM ELEV. = 185.78	178.68' (MCBCI-03) 180.13' (MCBCI-04)		
EX-SMH-03	9+33.45 14.9 L	RIM ELEV. = 185.88	177.98' (C.I.T.-03) 181.38' (C.I.T.-04)		
MCBCI-03	8+57.59 65.4 L	RIM ELEV. = 185.88		181.05' (EX-SMH-02)	
MCBCI-04	8+96.45 64.8 L	RIM ELEV. = 185.10		181.39' (EX-SMH-02)	
MCBCI-38	6+01.98 27.8 R	RIM ELEV. = 183.62		180.03' ()	FIELD VERIFY INV.OUT
MCBCI-39	7+29.17 28.0 R	RIM ELEV. = 184.20		181.23' ()	

DRAINAGE & UTILITY PLANS SHEET 123

DRAINAGE STRUCTURE TABLE					
NAME	STATION OFFSET	STRUCTURE DETAILS	INV. ELEV. IN	INV. ELEV. OUT	REMARKS
C.I.T.-05	11+33.39 26.5 L	RIM ELEV. = 186.33	182.90' (GI-04)	182.88' ()	
C.I.T.-06	11+56.70 26.4 R	RIM ELEV. = 186.44	183.70' (CBCI-14)	183.62' (EX-SMH-04)	
C.I.T.-07	13+44.27 26.4 R	RIM ELEV. = 186.97	184.00' (CBCI-16)	183.85' (EX-SMH-05)	
C.I.T.-08	14+29.52 26.4 R	RIM ELEV. = 187.02	183.95' (CBCI-18)	183.91' ()	
CBCI-14	11+64.89 28.1 R	RIM ELEV. = 186.44		184.00' (C.I.T.-06)	
CBCI-16	13+32.03 27.8 R	RIM ELEV. = 187.11		184.06' (C.I.T.-07)	
CBCI-17	13+73.08 28.0 L	RIM ELEV. = 187.17		183.16' (EX-SMH-05)	
CBCI-18	14+39.01 27.7 R	RIM ELEV. = 187.03		184.40' (C.I.T.-08)	
EX-SMH-04	11+52.59 15.1 L	RIM ELEV. = 187.03	182.53' (C.I.T.-06)		
MCBCI-40	12+46 28.1 L	RIM ELEV. = 186.82		183.14' ()	

DRAINAGE & UTILITY PLANS SHEET 124

DRAINAGE STRUCTURE TABLE					
NAME	STATION OFFSET	STRUCTURE DETAILS	INV. ELEV. IN	INV. ELEV. OUT	REMARKS
C.I.T.-10	17+04.60 26.5 L	RIM ELEV. = 187.18	183.80' (CBCI-23)	183.67' ()	
CBCI-22	16+50.77 27.7 L	RIM ELEV. = 187.37		184.60' (EX-SMH-06)	
CBCI-23	17+17.50 28.0 L	RIM ELEV. = 187.29		183.95' (C.I.T.-10)	
EX-SMH-06	16+69.66 14.6 L	RIM ELEV. = 187.87	181.79' (MCBCI-44) 177.59' (EX-SMH-21) 183.09' (CBCI-22)		
MCBCI-42	14+50.04 28.0 L	RIM ELEV. = 187.54		183.66' ()	
MCBCI-43	15+29.86 27.9 L	RIM ELEV. = 187.28		184.08' ()	
MCBCI-44	16+35.66 27.8 R	RIM ELEV. = 187.17		184.58' (EX-SMH-06)	

DRAINAGE & UTILITY PLANS SHEET 125

DRAINAGE STRUCTURE TABLE					
NAME	STATION OFFSET	STRUCTURE DETAILS	INV. ELEV. IN	INV. ELEV. OUT	REMARKS
C.I.T.-11	19+16.63 26.2 R	RIM ELEV. = 187.32	183.60' (CBCI-24)	183.50' (EX-SMH-07)	
C.I.T.-12	19+69.30 26.2 R	RIM ELEV. = 187.28	183.60' (CBCI-26)	183.50' (EX-SMH-07)	
C.I.T.-13	21+58.33 26.2 R	RIM ELEV. = 186.98	185.20' (CBCI-28)	185.09' (NULL-02)	
CBCI-24	19+27.02 32.6 R	RIM ELEV. = 187.20		183.70' (C.I.T.-11)	
CBCI-25	19+56.34 31.1 L	RIM ELEV. = 187.21		184.75' (EX-SMH-08)	
CBCI-26	19+63.55 32.4 R	RIM ELEV. = 187.17		183.70' (C.I.T.-12)	
CBCI-28	21+66.52 31.9 R	RIM ELEV. = 187.15		185.25' (C.I.T.-13)	
EX-SMH-07	19+41.88 14.8 L	RIM ELEV. = 187.65	182.06' (C.I.T.-11) 178.56' (C.I.T.-12) 178.56' (EX-SMH-20)	178.16' (EX-SMH-08)	
MCBCI-45	21+45.34 30.9 L	RIM ELEV. = 187.07		183.60' ()	

DRAINAGE & UTILITY PLANS SHEET 126

DRAINAGE STRUCTURE TABLE					
NAME	STATION OFFSET	STRUCTURE DETAILS	INV. ELEV. IN	INV. ELEV. OUT	REMARKS
C.I.T.-14	22+54.23 41.6 R	RIM ELEV. = 186.96	183.69' (CBCI-30) 183.69' ()	183.64' (NULL-03)	
C.I.T.-15	23+56.09 42.0 R	RIM ELEV. = 186.76	183.74' () 183.50' (CBCI-32)	183.44' (NULL-04)	
CBCI-29	21+87.09 53.7 L	RIM ELEV. = 186.26		181.93' (EX-SMH-09)	
CBCI-30	22+65.68 41.9 R	RIM ELEV. = 187.11		183.79' (C.I.T.-14)	
CBCI-31	23+28.93 39.0 L	RIM ELEV. = 187.82		183.50' (EX-SMH-10)	
CBCI-32	23+46.50 41.6 R	RIM ELEV. = 186.89		183.60' (C.I.T.-15)	
EX-SMH-10	23+40.26 22.0 L	RIM ELEV. = 187.75		182.00' (SMH-01)	
EX-SMH-27	253+38.63 21.7 L	RIM ELEV. = 188.04	183.85' ()		
SMH-01	23+32.95 12.6 L	RIM ELEV. = 187.86	181.90' (EX-SMH-10)	180.38' (EX-SMH-09)	

DRAINAGE & UTILITY PLANS SHEET 127

DRAINAGE STRUCTURE TABLE					
NAME	STATION OFFSET	STRUCTURE DETAILS	INV. ELEV. IN	INV. ELEV. OUT	REMARKS
C.I.T.-16	24+79.52 37.1 L	RIM ELEV. = 187.38	183.41' (CBCI-34)	183.31' (EX-SMH-12)	
C.I.T.-19	27+98.46 26.7 L	RIM ELEV. = 187.47	184.44' (CBCI-38)		FIELD VERIFY INV.OUT
CB-01	25+48.08 37.4 R	RIM ELEV. = 188.03		184.52' (DMH-01)	
CB-02	26+03.03 35.9 R	RIM ELEV. = 187.16		184.31' (DMH-01)	
CBCI-33	23+74.42 38.1 L	RIM ELEV. = 187.19		184.00' (EX-SMH-10)	
CBCI-34	24+76.28 32.4 L	RIM ELEV. = 186.89		183.45' (C.I.T.-16)	
CBCI-35	25+43.02 39.1 L	RIM ELEV. = 186.98		183.24' (C.I.T.-17)	
CBCI-36	26+52.31 30.9 R	RIM ELEV. = 187.16		183.80' (C.I.T.-18)	
CBCI-37	27+04.05 39.0 L	RIM ELEV. = 187.48		183.30' (C.I.T.-17)	
CBCI-38	27+91.12 30.9 L	RIM ELEV. = 187.56		184.50' (C.I.T.-19)	
CBCI-54	406+01.62 18.0 R	RIM ELEV. = 186.52		182.50' (DMH-10)	
CBCI-55	407+74.47 21.8 R	RIM ELEV. = 186.69		179.50' ()	
CBCI-56	408+39.87 19.0 L	RIM ELEV. = 186.36		184.15' (C.I.T.-30)	
EX-SMH-12	24+88.82 15.0 L	RIM ELEV. = 187.48	171.60' (NULL-05) 181.20' (C.I.T.-16)		
EX-SMH-33	406+75.35 3.1 L	RIM ELEV. = 187.33	181.63' (DMH-10)	170.53' (EX-SMH-31)	
EX-SMH-34	??? ??? ???	RIM ELEV. = 187.36	171.46' (EX-SMH-28)		

DRAINAGE & UTILITY PLANS SHEET 128

DRAINAGE STRUCTURE TABLE					
NAME	STATION OFFSET	STRUCTURE DETAILS	INV. ELEV. IN	INV. ELEV. OUT	REMARKS
C.I.T.-19	27+98.46 26.7 L	RIM ELEV. = 187.47	184.44' (CBCI-38)		FIELD VERIFY INV.OUT
CB-03	30+52.77 29.8 L	RIM ELEV. = 188.99		183.50' (EX-SMH-14)	
CB-04	30+54.90 26.2 R	RIM ELEV. = 189.98		185.65' (DMH-03)	
CBCI-38	27+91.12 30.9 L	RIM ELEV. = 187.56		184.50' (C.I.T.-19)	
DMH-03	30+42.87 27.0 R	RIM ELEV. = 188.31	185.45' (CB-04)	185.36' (NULL-07)	
EX-SMH-14	30+75.68 15.1 L	RIM ELEV. = 189.25	173.40' (NULL-08) 183.20' (CB-03)	173.35' (NULL-07)	
MCBCI-05	28+50.28 27.0 R	RIM ELEV. = 187.41		184.68' (NULL-06)	
MCBCI-06	30+61.67 60.8 L	RIM ELEV. = 188.36	184.89' ()	184.44' ()	
MCBCI-07	30+89.60 60.7 L	RIM ELEV. = 188.32		184.60' ()	
MCBCI-08	31+09.77 26.4 L	RIM ELEV. = 188.71		185.30' ()	FIELD VERIFY INV. OUT

DRAINAGE & UTILITY PLANS SHEET 129

DRAINAGE STRUCTURE TABLE					
NAME	STATION OFFSET	STRUCTURE DETAILS	INV. ELEV. IN	INV. ELEV. OUT	REMARKS
EX-SMH-15	33+85.77 14.8 L	RIM ELEV. = 190.43	174.33' (NULL-10)	174.28' (NULL-09)	
MCB-01	32+70.15 28.1 R	RIM ELEV. = 188.99		185.82' ()	
MCBCI-09	31+95.04 25.7 R	RIM ELEV. = 188.75		184.68' ()	
MCBCI-10	33+47.65 26.0 L	RIM ELEV. = 189.64		185.39' ()	
MCBCI-11	33+71.73 52.3 L	RIM ELEV. = 189.87		187.12' ()	
MCBCI-12	33+99.58 52.5 L	RIM ELEV. = 190.84		187.10' ()	
MCBCI-13	34+22.62 26.0 L	RIM ELEV. = 189.70		187.26' ()	
MCBCI-14	34+65.81 26.4 R	RIM ELEV. = 189.90		186.18' (NULL-10)	

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DRAINAGE & UTILITY PLANS SHEET 130

DRAINAGE STRUCTURE TABLE					
NAME	STATION OFFSET	STRUCTURE DETAILS	INV. ELEV. IN	INV. ELEV. OUT	REMARKS
C.I.T.-20	202+48.33 19.3 R	RIM ELEV. = 186.56	183.79' (CBCI-40)	183.69' ()	
CB-05	204+16.93 11.9 L	RIM ELEV. = 187.26		184.30' (DMH-04)	
CB-06	204+23.09 40.0 R	RIM ELEV. = 187.34		181.65' (DMH-05)	
CB-08	205+59.02 13.7 L	RIM ELEV. = 187.76		183.50' (EX-SMH-102)	
CB-09	205+63.72 12.7 R	RIM ELEV. = 187.79		181.50' (EX-SMH-102)	
CBCI-40	202+60.22 18.7 R	RIM ELEV. = 186.62		183.85' (C.I.T.-20)	
CBCI-41	203+57.66 19.1 L	RIM ELEV. = 186.95		182.70' (DMH-04)	
CBCI-42	203+81.52 18.7 R	RIM ELEV. = 187.20		182.25' (DMH-05)	
DMH-04	204+06.91 16.9 L	RIM ELEV. = 187.74	182.60' (CBCI-41) 184.10' (CB-05)	182.50' (EX-SMH-25)	
DMH-05	204+11.73 34.2 R	RIM ELEV. = 188.09	182.00' (CBCI-42) 181.80' (CB-06)	181.55' (EX-SMH-25)	
EX-SMH-25	204+17.28 16.4 R	RIM ELEV. = 187.42	182.22' (DMH-04) 181.35' (DMH-05) 185.24' (GI-02)		
GI-02	204+33.82 61.9 R	RIM ELEV. = 187.20		185.40' (EX-SMH-25)	GUTTER INLET
MCBCI-15	204+58.93 11.9 L	RIM ELEV. = 187.39		184.06' ()	

DRAINAGE & UTILITY PLANS SHEET 131

DRAINAGE STRUCTURE TABLE					
NAME	STATION OFFSET	STRUCTURE DETAILS	INV. ELEV. IN	INV. ELEV. OUT	REMARKS
CBCI-43	251+83.64 28.2 L	RIM ELEV. = 187.54		183.54' (SMH-02)	
SMH-02	251+83.59 14.1 L	RIM ELEV. = 182.42	180.76' () 183.47' (CBCI-43)	180.76' ()	

DRAINAGE & UTILITY PLANS SHEET 132

DRAINAGE STRUCTURE TABLE					
NAME	STATION OFFSET	STRUCTURE DETAILS	INV. ELEV. IN	INV. ELEV. OUT	REMARKS
C.I.T.-24	303+71.58 22.6 L	RIM ELEV. = 187.26	183.85' (CBCI-47) 183.85' (CB-11)	183.81' ()	
C.I.T.-25	304+19.85 22.2 R	RIM ELEV. = 184.21	182.55' (CBCI-48) 182.63' (CBCI-50)	183.19' ()	
C.I.T.-26	304+41.94 22.6 L	RIM ELEV. = 188.41	183.40' (CB-12) 183.35' (CBCI-49)	183.30' (EX-SMH-28)	
C.I.T.-27	305+23.85 22.8 R	RIM ELEV. = 187.78	183.87' (CB-13) 183.87' (MCBCI-17)	183.74' (CB-18)	
CB-11	303+93.77 5.3 L	RIM ELEV. = 187.21		184.00' (C.I.T.-24)	
CB-12	304+64.28 66.8 L	RIM ELEV. = 187.02		183.60' (C.I.T.-26)	
CB-13	305+13.24 23.2 R	RIM ELEV. = 186.90		183.90' (C.I.T.-27)	
CB-19	302+83.13 18.0 R	RIM ELEV. = 187.08	183.60' (DMH-06)		
CBCI-46	301+36.90 16.8 R	RIM ELEV. = 186.08		182.37' (DMH-06)	
CBCI-47	303+39.43 20.1 L	RIM ELEV. = 186.96		-0.42' (CBCI-47) -0.42' (CBCI-47) 184.05' (C.I.T.-24)	
CBCI-48	303+83.26 18.0 R	RIM ELEV. = 187.53		183.43' (C.I.T.-25)	
CBCI-49	304+15.14 24.4 L	RIM ELEV. = 187.59		183.38' (C.I.T.-26)	
CBCI-50	304+18.35 13.7 R	RIM ELEV. = 187.58		183.35' (C.I.T.-25)	
DMH-06	302+32.99 15.9 R	RIM ELEV. = 186.65	182.24' (CBCI-46)	183.60' (CB-19)	
EX-SMH-28	304+34.95 0.3 R	RIM ELEV. = 190.36	171.99' (EX-SMH-29) 182.49' (C.I.T.-26)	171.99' (EX-SMH-34)	
MCBCI-16	304+68.20 46.4 R	RIM ELEV. = 186.87		183.35' ()	
MCBCI-17	305+16.60 47.0 R	RIM ELEV. = 187.15		183.95' (C.I.T.-27)	

DRAINAGE & UTILITY PLANS SHEET 133

DRAINAGE STRUCTURE TABLE					
NAME	STATION OFFSET	STRUCTURE DETAILS	INV. ELEV. IN	INV. ELEV. OUT	REMARKS
CB-17	307+42.81 22.2 R	RIM ELEV. = 187.03			FIELD VERIFY INV. OUT
CB-18	306+00.85 22.5 R	RIM ELEV. = 186.76	183.74' (C.I.T.-27)		
MCBCI-18	306+09.86 23.0 L	RIM ELEV. = 186.76	185.06' () 185.06' ()	184.06' ()	
MCBCI-20	308+50.62 22.6 L	RIM ELEV. = 187.24	185.13' () 185.13' ()	184.73' ()	
MCBCI-33	503+91.50 15.3 R	RIM ELEV. = 187.22			FIELD VERIFY INV. OUT
MCBCI-34	504+14.47 14.0 L	RIM ELEV. = 188.33		183.44' ()	

DRAINAGE & UTILITY PLANS SHEET 134

DRAINAGE STRUCTURE TABLE					
NAME	STATION OFFSET	STRUCTURE DETAILS	INV. ELEV. IN	INV. ELEV. OUT	REMARKS
C.I.T.-28	404+23.33 18.7 R	RIM ELEV. = 186.97	182.47' (CB-15)	182.37' (EX-DMH-04)	
C.I.T.-29	402+25.39 20.8 R	RIM ELEV. = 188.12	182.25' (CBCI-52)	182.14' (EX-SMH-32)	
CB-14	403+03.50 22.0 L	RIM ELEV. = 187.07		184.40' (DMH-11)	
CB-15	404+29.96 18.6 R	RIM ELEV. = 187.00		182.53' (C.I.T.-28)	
CBCI-51	401+07.72 19.7 L	RIM ELEV. = 187.96		183.46' ()	
CBCI-52	402+82.47 22.4 R	RIM ELEV. = 187.24		182.30' (C.I.T.-29)	
DMH-11	402+35.63 22.3 L	RIM ELEV. = 187.80	184.25' (CB-14)	183.65' (EX-SMH-32)	
EX-DMH-03	401+73.10 20.0 L	RIM ELEV. = 187.87	183.11' (MCBCI-22) 182.89' (MCBCI-21)	179.39' ()	
EX-DMH-04	404+30.53 18.7 L	RIM ELEV. = 186.97	179.29' (C.I.T.-28) 179.14' (EX-SMH-32)	178.99' ()	
EX-SMH-30	401+76.67 18.7 R	RIM ELEV. = 187.80	179.84' (EX-SMH-31)		
EX-SMH-31	401+78.82 0.0	RIM ELEV. = 187.96	168.04' (EX-SMH-33)	179.68' (EX-SMH-30)	
MCBCI-21	401+49.64 18.5 R	RIM ELEV. = 187.20		184.00' (EX-DMH-03)	
MCBCI-22	401+63.42 39.7 R	RIM ELEV. = 187.51	183.70' (MCBCI-23)	181.64' (EX-DMH-03)	
MCBCI-23	401+89.44 34.3 R	RIM ELEV. = 187.44		184.00' (MCBCI-22)	
MCBCI-24	404+23.98 19.1 L	RIM ELEV. = 186.95		182.91' ()	

DRAINAGE & UTILITY PLANS SHEET 135

DRAINAGE STRUCTURE TABLE					
NAME	STATION OFFSET	STRUCTURE DETAILS	INV. ELEV. IN	INV. ELEV. OUT	REMARKS
C.I.T.-30	408+32.50 35.6 L	RIM ELEV. = 188.33	184.00' (CBCI-56)	183.45' ()	
CB-20	411+99.51 16.0 L	RIM ELEV. = 183.86		179.65' ()	
CBCI-56	408+39.87 19.0 L	RIM ELEV. = 186.36		184.15' (C.I.T.-30)	
EX-SMH-16	412+49.10 4.2 L	RIM ELEV. = 183.92	172.72' (EX-SMH-18)	172.62' (EX-SMH-17)	
MCBCI-26	409+91.48 16.4 L	RIM ELEV. = 185.22		181.97' (EX-SMH)	
MCBCI-27	410+00.79 16.4 R	RIM ELEV. = 185.16		180.33' (EX-SMH)	
MCBCI-28	412+16.37 16.8 R	RIM ELEV. = 183.74		178.30' ()	
MCBCI-29	412+80.19 19.0 R	RIM ELEV. = 183.34		178.17' ()	
MCBCI-30	412+94.01 16.5 L	RIM ELEV. = 183.33		179.40' ()	
MCBCI-31	413+03.74 36.6 L	RIM ELEV. = 183.41		179.76' ()	
MCBCI-32	413+27.54 34.6 L	RIM ELEV. = 183.19		179.49' ()	

DRAINAGE & UTILITY PLANS SHEET 136

DRAINAGE STRUCTURE TABLE					
NAME	STATION OFFSET	STRUCTURE DETAILS	INV. ELEV. IN	INV. ELEV. OUT	REMARKS
CB-16	501+42.51 14.8 R	RIM ELEV. = 188.47		183.40' (SMH-03)	
CBCI-59	501+48.86 13.7 L	RIM ELEV. = 188.46		184.77' (SMH-03)	
EX-SMH-35	501+78.17 0.5 L	RIM ELEV. = 188.58	182.31' (SMH-03)	182.01' (EX-SMH-36)	
SMH-03	501+47.92 0.0 R	RIM ELEV. = 193.23	184.67' (CBCI-59) 183.30' (CB-16)	182.61' (EX-SMH-35)	

DRAINAGE & UTILITY PLANS SHEET 138

DRAINAGE STRUCTURE TABLE					
NAME	STATION OFFSET	STRUCTURE DETAILS	INV. ELEV. IN	INV. ELEV. OUT	REMARKS
CBCI-63	706+26.12 14.1 L	RIM ELEV. = 183.67		178.68' ()	
CBCI-64	706+26.44 14.4 R	RIM ELEV. = 183.78		178.74' ()	
GI-06	703+02.01 9.9 R	RIM ELEV. = 184.49		182.13' ()	GUTTER INLET

DRAINAGE & UTILITY PLANS SHEET 139

DRAINAGE STRUCTURE TABLE					
NAME	STATION OFFSET	STRUCTURE DETAILS	INV. ELEV. IN	INV. ELEV. OUT	REMARKS
C.I.T.-31	700+67.19 17.0 R	RIM ELEV. = 184.50	178.90' (CBCI-60) 178.40' (CBCI-61)	177.00' ()	
CBCI-60	700+52.55 9.4 R	RIM ELEV. = 184.57		179.15' (C.I.T.-31)	
CBCI-61	700+75.91 8.5 R	RIM ELEV. = 183.98		179.51' (C.I.T.-31)	

WATER NOTES:

1. THE SPRINGFIELD WATER & SEWER COMMISSION (SWSC) SHALL COMPLETE ALL HYDRANT ADJUSTMENTS, HYDRANT RELOCATIONS, REPLACEMENT OR REPAIR OF RESIDENTIAL WATER SERVICE LINES, REPLACEMENT OF GATE BOXES/VALVES, AND ANY OTHER WORK ON EXISTING WATER AND SEWER UTILITIES THAT IS BEYOND THE SCOPE OF STANDARD ADJUSTMENTS/REBUILDS.

   IT WILL BE NECESSARY FOR THE CONTRACTOR TO COORDINATE WITH SWSC DURING MILLING/RECONSTRUCTION OPERATIONS.

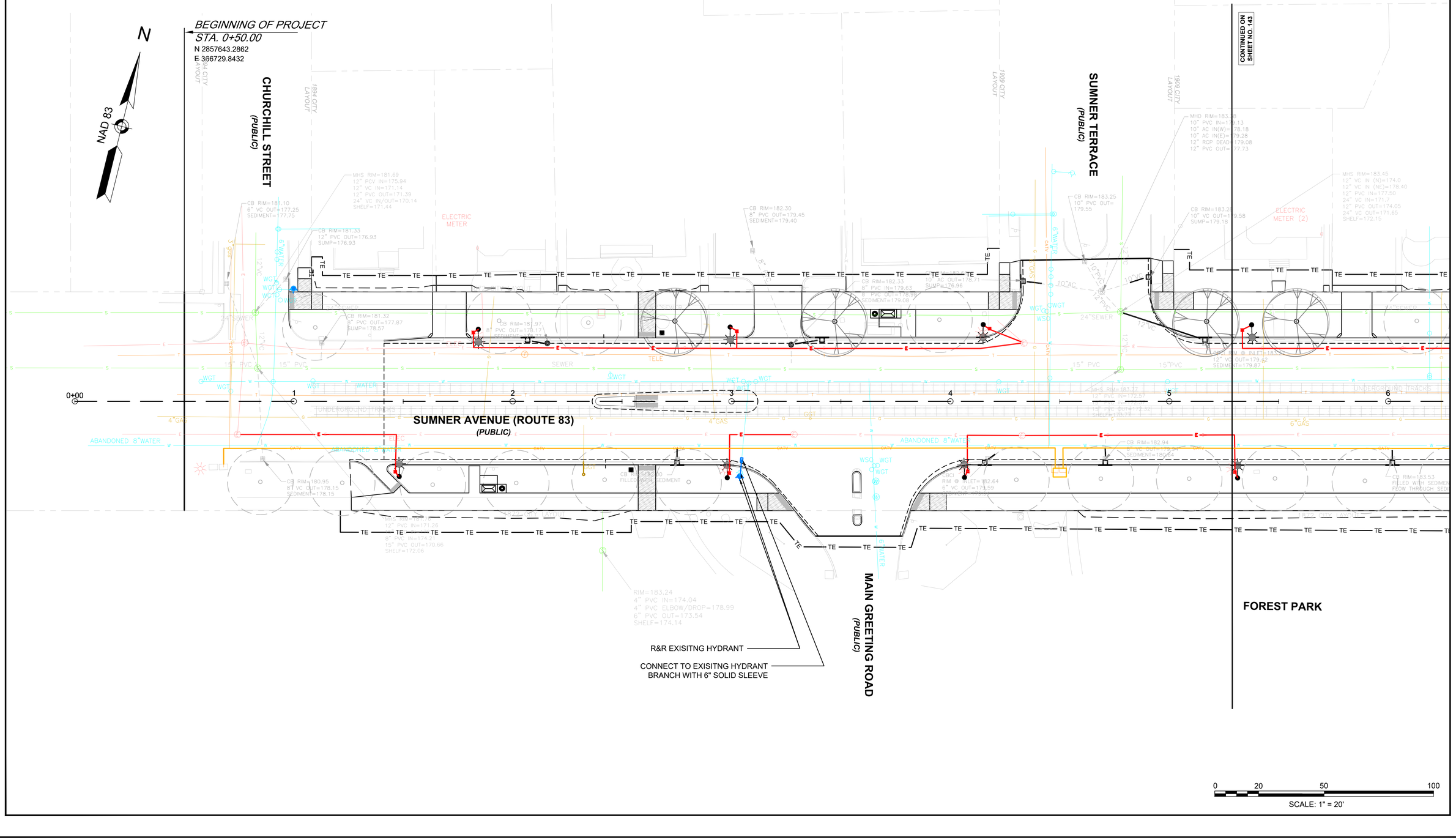
2. THE SWSC IS NOW A MEMBER OF DIG-SAFE. THE CONTRACTOR SHALL CALL DIG-SAFE 811 OR 1-888-DIG-SAFE A MINIMUM OF 72 HOURS PRIOR TO CONSTRUCTION.

3. IF EXISTING PIPES SHOWN TO BE REMOVED ARE WITHIN THE LIMITS OF THE PROPOSED WATER MAIN TRENCH EXCAVATION, THE COST TO REMOVE THE EXISTING WATER MAIN SHALL BE INCLUDED IN THE UNIT COST FOR THE DUCTILE IRON PIPE BEING INSTALLED. IF EXISTING WATER MAIN TO BE REMOVED IS LOCATED OUTSIDE THE LIMITS OF THE PROPOSED WATER MAIN TRENCH (AS DETERMINED BY THE ENGINEER), THE REMOVAL COST SHALL BE PAID UNDER ITEM 141. CLASS A TRENCH EXCAVATION.

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXX(XXX)X	142	358
PROJECT FILE NO.	608717		

UTILITY PLANS - WATERMAIN



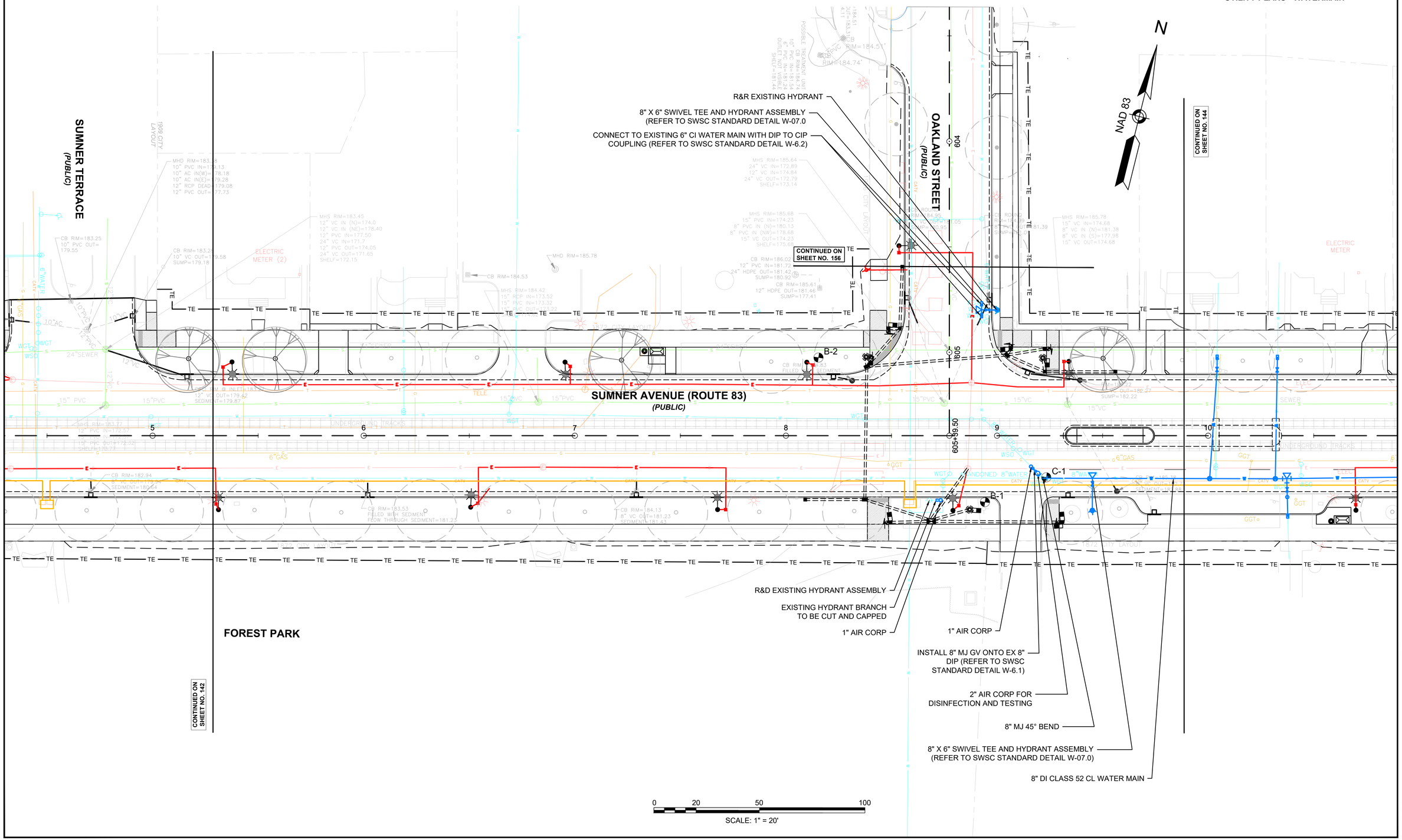
20121457A70_UTL01_WMAIN.DWG Plotted on 5-May-2023 3:14 PM

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	143	358
	PROJECT FILE NO. 608717		

UTILITY PLANS - WATERMAIN

Plotted on 5-May-2023 3:14 PM
20121457A70_UTL01_WMAIN.DWG



SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	144	358
	PROJECT FILE NO. 608717		

UTILITY PLANS - WATERMAIN

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N

NAD 83

CONNECT TO EXISTING 1" CT

CONNECT TO EXISTING SERVICE VIA COUPLING, (TYP.)

SERVICE VALVE AND BOX (TYP.)

BUFFALO BOX AND 1" BALL CORP, (TYP.) (REFER TO SWSC STANDARD DETAILS W-11.0 AND 12.0)

CONNECT TO EXISTING 3/4" CT WITH 1" CT WITH ADAPTER

CONNECT TO EXISTING 6" CI WATER MAIN WITH DIP TO CIP COUPLING (REFER TO SWSC STANDARD DETAIL W-6.2)

8" X 6" REDUCER

8" MJ GV WITH BOX (REFER TO SWSC STANDARD DETAIL W-08.0)

KENWOOD TERRACE
(PUBLIC)

8" DI CLASS 52 CL WATER MAIN

8" MJ GV WITH BOX (REFER TO SWSC STANDARD DETAIL W-08.0)

8" X 6" SWIVEL TEE AND HYDRANT ASSEMBLY (REFER TO SWSC STANDARD DETAIL W-07.0)

2" AIR CORP FOR DISINFECTION AND TESTING

R&D EXISITNG HYDRANT, PIPE, & VALVE

CONNECT TO EXISTING 1" CT

CONNECT TO EXISTING 1" CT

CONNECT TO EXISTING 3/4" CT WITH 1" CT WITH ADAPTER

BEAUMONT STREET
(PUBLIC)

CONTINUED ON SHEET NO. 145

SUMNER AVENUE (ROUTE 83)
(PUBLIC)

9 10 11 12 13 14 15

C-1

B-1

8" MJ GV WITH BOX (REFER TO SWSC STANDARD DETAIL W-08.0)

8" X 4" MJ TEE (REFER TO SWSC STANDARD DETAIL W-05.0)

4" MJ GV WITH BOX (REFER TO SWSC STANDARD DETAIL W-08.0)

1" AIR CORP

CONNECT TO EXISTING 4" CIP WITH DIP TO CIP COUPLING

8" X 8" MJ TEE (REFER TO SWSC STANDARD DETAIL W-05.0)

THRUST BLOCK (TYP.) (REFER TO SWSC STANDARD DETAIL W-14.0 & W-14.1)

8" DI CLASS 52 CL WATER MAIN

8" MJ GV WITH BOX (REFER TO SWSC STANDARD DETAIL W-08.0)

8" X 8" MJ TEE (REFER TO SWSC STANDARD DETAIL W-05.0)

8" DI CLASS 52 CL WATER MAIN

CONTINENTAL STREET
(PUBLIC)

8" MJ GV WITH BOX (REFER TO SWSC STANDARD DETAIL W-08.0)

8" MJ 45° BEND

R&D EXISITNG HYDRANT, PIPE, & VALVE

2" AIR CORP FOR DISINFECTION AND TESTING

8" MJ GV WITH BOX (REFER TO SWSC STANDARD DETAIL W-08.0)

8" X 6" SWIVEL TEE AND HYDRANT ASSEMBLY (REFER TO SWSC STANDARD DETAIL W-07.0)

8" MJ GV WITH BOX (REFER TO SWSC STANDARD DETAIL W-08.0)

8" X 6" REDUCER

CONNECT TO EXISTING 6" CI WATER MAIN WITH DIP TO CIP COUPLING (REFER TO SWSC STANDARD DETAIL W-6.2)

CONTINUED ON SHEET NO. 143

0 20 50 100

SCALE: 1" = 20'

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	145	358
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UTILITY PLANS - WATERMAIN

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CONNECT TO EXISTING 6" CI WATER MAIN WITH DIP TO CIP COUPLING (REFER TO SWSC STANDARD DETAIL W-6.2)

8" X 6" REDUCER

8" MJ GV WITH BOX (REFER TO SWSC STANDARD DETAIL W-08.0)

8"x6" SWIVEL TEE AND HYDRANT ASSEMBLY (REFER TO SWSC STANDARD DETAIL W-07.0)

8" MJ GV WITH BOX (REFER TO SWSC STANDARD DETAIL W-08.0)

2" AIR CORP FOR DISINFECTION AND TESTING

8" DI CLASS 52 CL WATER MAIN

N

NAD 83

BEAUMONT STREET
(PUBLIC)

R&D EXISTING HYDRANT, PIPE, & VALVE

8" DI CLASS 52 CL WATER MAIN

CONNECT TO EXISTING 1" CT

SERVICE VALVE AND BOX (TYP.)

CONNECT WATER SERVICE TO EXISTING CURB STOP AND CURB BOX, (TYP.) (REFER TO SWSC STANDARD DETAILS W-11.0 AND 12.0)

CONNECT TO EXISTING 3/4" CT WITH 1" CT WITH ADAPTER

CONNECT TO EXISTING 3/4" CT WITH 1" CT WITH ADAPTER

CONTINUED ON SHEET NO. 146

SUMNER AVENUE (ROUTE 83)
(PUBLIC)

8" X 8" MJ TEE (REFER TO SWSC STANDARD DETAIL W-05.0)

THRUST BLOCK (TYP.) (REFER TO SWSC STANDARD DETAIL W-14.0 & W-14.1)

CONTINUED ON SHEET NO. 144

8" MJ GV WITH BOX (REFER TO SWSC STANDARD DETAIL W-08.0)

CONNECT TO 1" WATER SERVICE CONTRACTOR TO CONFIRM LOCATION

BUFFALO BOX AND 1" BALL CORP, (TYP.) (REFER TO SWSC STANDARD DETAILS W-11.0 AND 12.0)

CONTINENTAL STREET
(PUBLIC)

PARKWOOD STREET
(PUBLIC)

8" MJ GV WITH BOX (REFER TO SWSC STANDARD DETAIL W-08.0)

8" X 8" MJ TEE (REFER TO SWSC STANDARD DETAIL W-05.0)

8" DI CLASS 52 CL WATER MAIN

R&R EXISTING HYDRANT, PIPE, & VALVE

2" AIR CORP FOR DISINFECTION AND TESTING

8" MJ GV WITH BOX (REFER TO SWSC STANDARD DETAIL W-08.0)

8"x6" SWIVEL TEE AND HYDRANT ASSEMBLY (REFER TO SWSC STANDARD DETAIL W-07.0)

8" MJ GV WITH BOX (REFER TO SWSC STANDARD DETAIL W-08.0)

8" X 6" REDUCER

CONNECT TO EXISTING 6" CI WATER MAIN WITH DIP TO CIP COUPLING (REFER TO SWSC STANDARD DETAIL W-6.2)

CLIFTWOOD STREET
(PUBLIC)

0 20 50 100

SCALE: 1" = 20'

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	146	358
PROJECT FILE NO.	608717		

UTILITY PLANS - WATERMAIN

Plotted on 5-May-2023 3:15 PM
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N

NAD 83

BELMONT AVENUE (PUBLIC)

SUMNER AVENUE (ROUTE 83) (PUBLIC)

CONNECT TO EXISTING 2" CT WITH 2" CT

PC +41.78

PT +68.12

8" MJ GV WITH BOX (REFER TO SWSC STANDARD DETAIL W-08.0)

THRUST BLOCK (TYP.) (REFER TO SWSC STANDARD DETAIL W-14.0 & W-14.1)

8" X 8" MJ TEE (REFER TO SWSC STANDARD DETAIL W-05.0)

8" DI CLASS 52 WATER MAIN

R&D EXISITNG HYDRANT, PIPE, & VALVE

2" AIR CORP FOR DISINFECTION AND TESTING

8" MJ GV WITH BOX (REFER TO SWSC STANDARD DETAIL W-08.0)

8"X6" SWIVEL TEE AND HYDRANT ASSEMBLY (REFER TO SWSC STANDARD DETAIL W-07.0)

8" MJ GV WITH BOX (REFER TO SWSC STANDARD DETAIL W-08.0)

8" X 6" REDUCER

CONNECT TO EXISTING 6" CI WATER MAIN WITH DIP TO CIP COUPLING (REFER TO SWSC STANDARD DETAIL W-6.2)

8" MJ GV WITH BOX (REFER TO SWSC STANDARD DETAIL W-08.0)

BUFFALO BOX AND 1" BALL CORP, (TYP.) (REFER TO SWSC STANDARD DETAILS W-11.0 AND 12.0)

SERVICE VALVE AND BOX (TYP.)

CONNECT TO EXISTING 1.25" CT WITH ADAPTER

CONTINUED ON SHEET NO. 145

CONTINUED ON SHEET NO. 147

CLIFTWOOD STREET (PUBLIC)

LENOX STREET (PUBLIC)

0 20 50 100

SCALE: 1" = 20'

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	147	358
PROJECT FILE NO.	608717		

UTILITY PLANS - WATERMAIN

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N

NAD 83

BELMONT AVENUE (PUBLIC)

SUMNER AVENUE (ROUTE 83) (PUBLIC)

DICKINSON STREET (PUBLIC)

LENOX STREET (PUBLIC)

CLIETWOOD STREET

CONTINUED ON SHEET NO. 100

CONTINUED ON SHEET NO. 153

CONTINUED ON SHEET NO. 148

CONTINUED ON SHEET NO. 146

8"X6" SWIVEL TEE AND HYDRANT ASSEMBLY (REFER TO SWSC STANDARD DETAIL W-07.0)

8" MJ GV WITH BOX (REFER TO SWSC STANDARD DETAIL W-08.0)

8" MJ 22.5° BEND

BUFFALO BOX AND 1" BALL CORP, (TYP.) (REFER TO SWSC STANDARD DETAILS W-11.0 AND 12.0)

8" MJ 22.5° BEND

ABANDON 8" CI WATER MAIN

CONNECT TO EXISTING 1.5" CT WITH ADAPTER

R&D BOXES ALONG ABANDONED WATER MAIN, (TYP.)

1" CT WATER SERVICE

SERVICE VALVE AND BOX (TYP.)

R&D SERVICE VALVE AND BOX

R&D HYDRANT AFTER TEMP BYPASS IS COMPLETE

8" X 8" MJ TEE (REFER TO SWSC STANDARD DETAIL W-05.0)

8" MJ GV WITH BOX (REFER TO SWSC STANDARD DETAIL W-08.0)

8" DI CLASS 52 CL WATER MAIN

THRUST BLOCK (TYP.) (REFER TO SWSC STANDARD DETAIL W-14.0 & W-14.1)

8" MJ GV WITH BOX (REFER TO SWSC STANDARD DETAIL W-08.0)

2" AIR CORP FOR DISINFECTION AND TESTING

8" MJ GV WITH BOX (REFER TO SWSC STANDARD DETAIL W-08.0)

8" X 8" MJ TEE (REFER TO SWSC STANDARD DETAIL W-05.0)

R&D EXISTING HYDRANT, PIPE, & VALVE

R&D EXISITNG HYDRANT, PIPE, & VALVE

2" AIR CORP FOR DISINFECTION AND TESTING

8" MJ GV WITH BOX (REFER TO SWSC STANDARD DETAIL W-08.0)

8"X6" SWIVEL TEE AND HYDRANT ASSEMBLY (REFER TO SWSC STANDARD DETAIL W-07.0)

8" MJ GV WITH BOX (REFER TO SWSC STANDARD DETAIL W-08.0)

8" X 6" REDUCER

CONNECT TO EXISTING 6" CI WATER MAIN WITH DIP TO CIP COUPLING (REFER TO SWSC STANDARD DETAIL W-6.2)

R&R SPIGOT & CAGE

CITY PARKS & REC. DEPT. MUST APPLY TO SWSC FOR WATER SERVICE TO TRAFFIC ISLAND

0 20 50 100

SCALE: 1" = 20'

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	148	358
PROJECT FILE NO.	608717		

UTILITY PLANS - WATERMAIN

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N

NAD 83

BUFFALO BOX AND 2" BALL CORP (REFER TO SWSC STANDARD DETAILS W-11.0 AND 12.0)

6" MJ GV WITH BOX (REFER TO SWSC STANDARD DETAIL W-08.0)

SERVICE VALVE AND BOX (TYP.)

THRUST BLOCK (TYP.) (REFER TO SWSC STANDARD DETAIL W-14.0 & W-14.1)

6"X6" MJ TEE (REFER TO SWSC STANDARD DETAIL W-5.0)

CONNECT TO EXISTING 2" CT WITH 2" CT

6" DI CLASS 52 WATER MAIN

8" MJ GV WITH BOX (REFER TO SWSC STANDARD DETAIL W-08.0)

8"X6" SWIVEL TEE AND HYDRANT ASSEMBLY (REFER TO SWSC STANDARD DETAIL W-07.0)

8" MJ GV WITH BOX (REFER TO SWSC STANDARD DETAIL W-08.0)

DICKINSON STREET (PUBLIC)

2" AIR CORP FOR DISINFECTION AND TESTING

6" MJ GV WITH BOX VIA FOSTER ADAPTER (REFER TO SWSC STANDARD DETAIL W-08.0)

CONNECT TO EXISTING 20" CI WATER MAIN WITH DIP TO CIP COUPLING (REFER TO SWSC STANDARD DETAIL W-6.2)

20" DI CLASS 52 WATER SEGMENT

CONTINUED ON SHEET NO. 153

20"X6" MJ TEE (REFER TO SWSC STANDARD DETAIL W-5.0)

CONNECT TO EXISTING 20" CI WATER MAIN WITH DIP TO CIP COUPLING (REFER TO SWSC STANDARD DETAIL W-6.2)

CONNECT TO EXISTING 1.5" CT WITH ADAPTER WITH ADAPTER CT

CONNECT TO EXISTING 20" MJ BUTTERFLY VALVE

20"X16" REDUCER

BUFFALO BOX AND 1.5" BALL CORP (REFER TO SWSC STANDARD DETAILS W-11.0 AND 12.0)

8" MJ GV WITH BOX VIA FOSTER ADAPTER (REFER TO SWSC STANDARD DETAIL W-08.0)

16" DI CLASS 52 WATER SEGMENT

2" AIR CORP FOR DISINFECTION AND TESTING

CONNECT TO EXISTING 16" CI WATER MAIN WITH DIP TO CIP COUPLING (REFER TO SWSC STANDARD DETAIL W-6.2)

8" MJ GV WITH BOX (REFER TO SWSC STANDARD DETAIL W-08.0)

8" X 8" MJ TEE (REFER TO SWSC STANDARD DETAIL W-05.0)

8" X 6" SWIVEL TEE AND HYDRANT ASSEMBLY (REFER TO SWSC STANDARD DETAIL W-07.0

CUT, CAP, AND RESTRAIN 6" HYDRANT BRANCH AT THE EXISTING 6" VALVE. EXISTING VALVE TO REMAIN SHUT AND BURIED

8" MJ GV WITH BOX (REFER TO SWSC STANDARD DETAIL W-08.0)

VENTURA STREET (PUBLIC)

CONTINUED ON SHEET NO. 149

R&D EXISTING HYDRANT, PIPE, & VALVE

CONNECT TO EXISTING 16" CI WATER MAIN WITH DIP TO CIP COUPLING (REFER TO SWSC STANDARD DETAIL W-6.2)

16" DI CLASS 52 WATER SEGMENT

CONNECT TO EXISTING 16" CI WATER MAIN WITH DIP TO CIP COUPLING (REFER TO SWSC STANDARD DETAIL W-6.2)

16" X 6" SWIVEL TEE AND HYDRANT ASSEMBLY VIA TAPPING SLEEVE (REFER TO SWSC STANDARD DETAIL W-07.0

CONNECT TO EXISTING 16" CI WATER MAIN WITH DIP TO CIP COUPLING (REFER TO SWSC STANDARD DETAIL W-6.2)

SUMNER AVENUE (PUBLIC)

8" DI CLASS 52 WATER MAIN

8" MJ GV WITH BOX (REFER TO SWSC STANDARD DETAIL W-08.0)

2" AIR CORP FOR DISINFECTION AND TESTING

6" MJ GV WITH BOX (REFER TO SWSC STANDARD DETAIL W-08.0)

CONTINUED ON SHEET NO. 147

8" X 6" MJ TEE (REFER TO SWSC STANDARD DETAIL W-05.0)

8" MJ GV WITH BOX (REFER TO SWSC STANDARD DETAIL W-08.0)

8" X 6" MJ TEE (REFER TO SWSC STANDARD DETAIL W-05.0)

6" MJ GV WITH BOX (REFER TO SWSC STANDARD DETAIL W-08.0)

2" AIR CORP FOR DISINFECTION AND TESTING

CONTINUED ON SHEET NO. 154

6" DI CLASS 52 WATER MAIN

6" MJ 22.5° BEND

ABANDON 8" CI WATER MAIN

EXISITNG HYDRANT TO BE REMOVED, PIPE & VALVE TO BE ABANDONED IN PLACE ONCE NEW MAIN HAS BEEN PLACED INTO SERVICE

8" X 8" MJ TEE (REFER TO SWSC STANDARD DETAIL W-05.0)

8" MJ GV WITH BOX (REFER TO SWSC STANDARD DETAIL W-08.0)

2" AIR CORP FOR DISINFECTION AND TESTING

8" MJ 11.5° BEND

8" DI CLASS 52 WATER MAIN

CONTINUED ON SHEET NO. 151

DICKINSON STREET (PUBLIC)

PC +10.40

PT +52.26

PT +34.10

B-6 B-7 B-8 B-9

0 20 50 100

SCALE: 1" = 20'

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	149	358
	PROJECT FILE NO. 608717		

UTILITY PLANS - WATERMAIN

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N

NAD 83

CONNECT TO EXISTING 6" CI WATER MAIN WITH DIP TO CIP COUPLING (REFER TO SWSC STANDARD DETAIL W-6.2)

1" AIR CORP

6" MJ GV WITH BOX (REFER TO SWSC STANDARD DETAIL W-08.0)

2" AIR CORP FOR DISINFECTION AND TESTING

8"X6" REDUCER

1" AIR CORP

8" MJ GV WITH BOX (REFER TO SWSC STANDARD DETAIL W-08.0)

8" MJ GV WITH BOX (REFER TO SWSC STANDARD DETAIL W-08.0)

2" AIR CORP FOR DISINFECTION AND TESTING

VENTURA STREET (PUBLIC)

16"X8" MJ TEES BACK TO BACK

16" DI CLASS 52 WATER SEGMENT

CONNECT TO EXISTING 16" CI WATER MAIN WITH DIP TO CIP COUPLING (REFER TO SWSC STANDARD DETAIL W-6.2)

CONNECT TO EXISTING 6" CI WATER MAIN WITH DIP TO CIP COUPLING (REFER TO SWSC STANDARD DETAIL W-6.2)

8" X 6" REDUCER

8" MJ GV WITH BOX (REFER TO SWSC STANDARD DETAIL W-08.0)

8" X 6" SWIVEL TEE AND HYDRANT ASSEMBLY (REFER TO SWSC STANDARD DETAIL W-07.0

8" MJ GV WITH BOX (REFER TO SWSC STANDARD DETAIL W-08.0)

2" AIR CORP FOR DISINFECTION AND TESTING

1" AIR CORP

CONNECT TO EXISTING 16" CI WATER MAIN WITH DIP TO CIP COUPLING (REFER TO SWSC STANDARD DETAIL W-6.2)

SORRENTO STREET (PUBLIC)

CONTINUED ON SHEET NO. 150

R&D EXISTING HYDRANT, PIPE, & VALVE

8" MJ GV WITH BOX (REFER TO SWSC STANDARD DETAIL W-08.0)

16"X8" MJ TEES BACK TO BACK

16" DI CLASS 52 WATER SEGMENT

8" MJ GV WITH BOX (REFER TO SWSC STANDARD DETAIL W-08.0)

CONNECT TO EXISTING 16" CI WATER MAIN WITH DIP TO CIP COUPLING (REFER TO SWSC STANDARD DETAIL W-6.2)

2" AIR CORP FOR DISINFECTION AND TESTING

8" DI CLASS 52 CL WATER MAIN

B-10

C-2

SUMNER AVENUE (PUBLIC)

SUMNER AVENUE (PUBLIC)

8" X 8" TEE

THRUST BLOCK (TYP.) (REFER TO SWSC STANDARD DETAIL W-14.0 & W-14.1)

R&D EXISTING HYDRANT AND REPLACE WITH NEW

8" MJ GV WITH BOX (REFER TO SWSC STANDARD DETAIL W-08.0)

CONNECT TO EXISTING HYDRANT BRANCH WITH 6" COUPLING

6" MJ GV WITH BOX (REFER TO SWSC STANDARD DETAIL W-08.0)

8"X6" MJ CROSS

8" MJ GV WITH BOX (REFER TO SWSC STANDARD DETAIL W-08.0)

CONTINUED ON SHEET NO. 148

BUFFALO BOX AND 1" BALL CORP, (TYP.) (REFER TO SWSC STANDARD DETAILS W-11.0 AND 12.0)

SERVICE VALVE AND BOX (TYP.)

CONNECT TO EXISTING 3/4" CT WITH 1" CT WITH ADAPTER

CONNECT WATER SERVICE TO EXISTING CURB STOP AND CURB BOX, (TYP.) (REFER TO SWSC STANDARD DETAILS W-11.0 AND 12.0)

8" MJ GV WITH BOX (REFER TO SWSC STANDARD DETAIL W-08.0)

8" DI CLASS 52 WATER MAIN

8" X 8" MJ TEE (REFER TO SWSC STANDARD DETAIL W-05.0)

8" MJ GV WITH BOX (REFER TO SWSC STANDARD DETAIL W-08.0)

8" DI CLASS 52 WATER MAIN

ORMOND STREET (PUBLIC)

C-3

0 20 50 100

SCALE: 1" = 20'

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	150	358
PROJECT FILE NO.	608717		

UTILITY PLANS - WATERMAIN

20121457A70_UTL01_WMAIN.DWG Plotted on 5-May-2023 3:15 PM

SORRENTO STREET (PUBLIC)

POMONA STREET (PUBLIC)

SUMNER AVENUE (PUBLIC)

ORMOND STREET (PUBLIC)

DAYTONA STREET (PUBLIC)

CONNECT TO EXISTING 12" CI WATER MAIN WITH DIP TO CIP COUPLING (REFER TO SWSC STANDARD DETAIL W-6.2)

1" AIR CORP

12" MJ GV WITH BOX (REFER TO SWSC STANDARD DETAIL W-08.0)

2" AIR CORP FOR DISINFECTION AND TESTING

12" DI CLASS 52 WATER MAIN

CONNECT TO EXISTING 6" CI WATER MAIN WITH DIP TO CIP COUPLING (REFER TO SWSC STANDARD DETAIL W-6.2)

6" MJ GV WITH BOX (REFER TO SWSC STANDARD DETAIL W-08.0)

2" AIR CORP FOR DISINFECTION AND TESTING

CONNECT TO EXISTING 16" CI WATER MAIN WITH DIP TO CIP COUPLING (REFER TO SWSC STANDARD DETAIL W-6.2)

1" AIR CORP

8"X6" REDUCER

2" AIR CORP

8" MJ GV WITH BOX (REFER TO SWSC STANDARD DETAIL W-08.0)

16"X8" MJ TEES BACK TO BACK

8" MJ GV WITH BOX (REFER TO SWSC STANDARD DETAIL W-08.0)

16" DI CLASS 52 WATER SEGMENT

2" AIR CORP FOR DISINFECTION AND TESTING

CONNECT TO EXISTING 16" CI WATER MAIN WITH DIP TO CIP COUPLING (REFER TO SWSC STANDARD DETAIL W-6.2)

8" DI CLASS 52 CL WATER MAIN

8" X 8" MJ TEE (REFER TO SWSC STANDARD DETAIL W-05.0)

END OF PROJECT
STA. 35+44.11
N 2858482.6860
E 370121.6284

8" X 6" SWIVEL TEE AND HYDRANT ASSEMBLY (REFER TO SWSC STANDARD DETAIL W-07.0

2" AIR CORP FOR DISINFECTION AND TESTING

8" MJ GV WITH BOX (REFER TO SWSC STANDARD DETAIL W-08.0)

1" AIR CORP

CONNECT TO EXISTING 8" CI WATER MAIN WITH DIP TO CIP COUPLING (REFER TO SWSC STANDARD DETAIL W-6.2)

CONNECT TO EXISTING 3/4" CT WITH ADAPTER

CONNECT TO EXISTING 1" CT

THRUST BLOCK (TYP.) (REFER TO SWSC STANDARD DETAIL W-14.0 & W-14.1)

BUFFALO BOX AND 1" BALL CORP, (TYP.) (REFER TO SWSC STANDARD DETAILS W-11.0 AND 12.0)

SERVICE VALVE AND BOX (TYP.)

CONNECT TO EXISTING 3/4" CT WITH ADAPTER

8" MJ GV WITH BOX (REFER TO SWSC STANDARD DETAIL W-08.0)

B-10

C-2

C-3

CONTINUED ON SHEET NO. 149

CONTINUED ON SHEET NO. 155

NAD 83

N

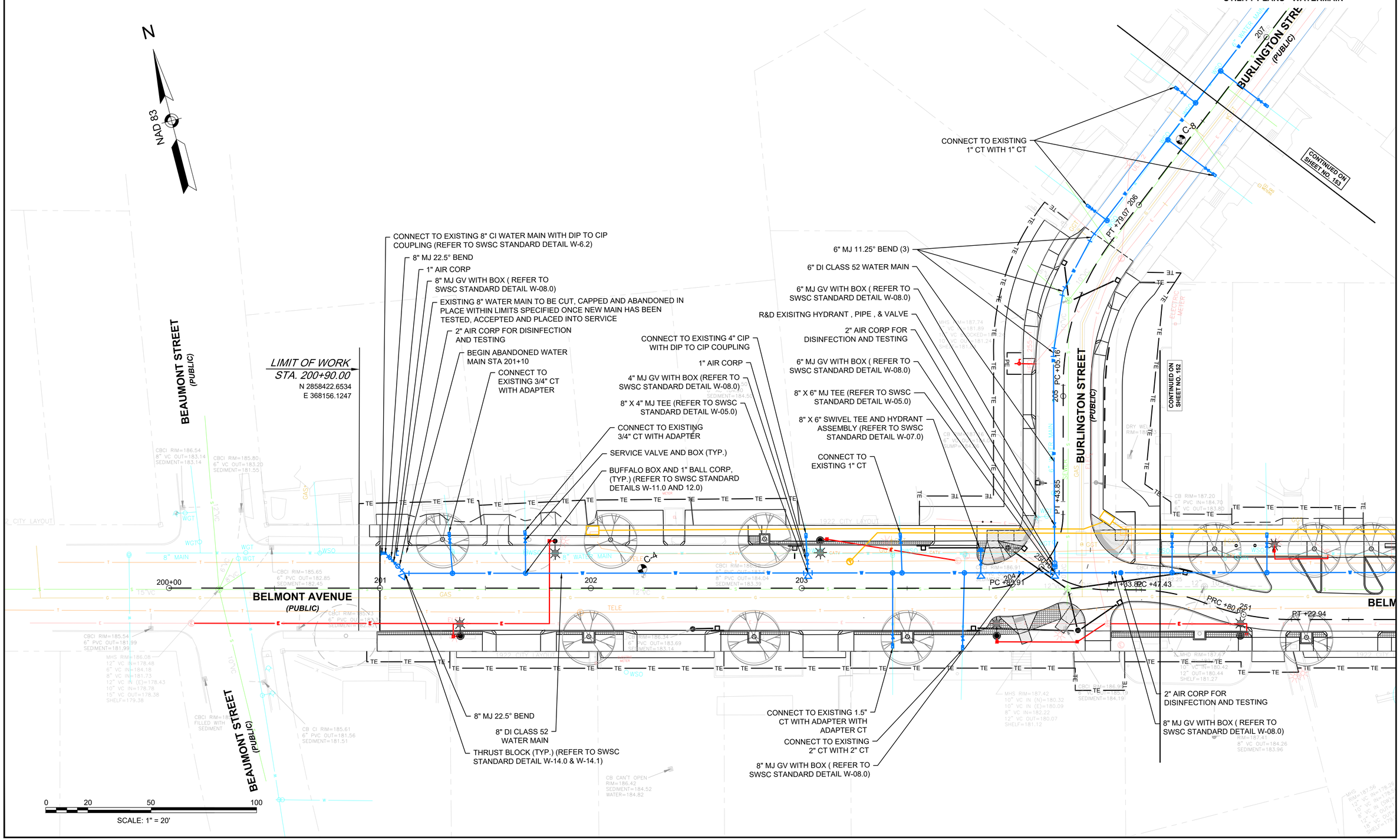
0 20 50 100

SCALE: 1" = 20'

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	151	358
PROJECT FILE NO.	608717		

UTILITY PLANS - WATERMAIN



20121457A70_UTL01_WMAIN.DWG Plotted on 5-May-2023 3:16 PM

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	152	358
	PROJECT FILE NO.	608717	

UTILITY PLANS - WATERMAIN

Plotted on 5-May-2023 3:16 PM

20121457A70_UTL01_WMAIN.DWG

CONNECT TO EXISTING 3/4" CT WITH 1" CT WITH ADAPTER

CONNECT TO EXISTING 1" CT

8" DI CLASS 52 WATER MAIN

ABANDON 8" CI WATER MAIN

CONNECT TO EXISTING 1" CT

CONNECT TO EXISTING 1.25" CT WITH ADAPTER

THRUST BLOCK (TYP.) (REFER TO SWSC STANDARD DETAILS W-14.0 & W-14.2)

8" MJ 22.5° BEND

BUFFALO BOX AND 1" BALL CORP, (TYP.) (REFER TO SWSC STANDARD DETAILS W-11.0 AND 12.0)

SERVICE VALVE AND BOX (TYP.)

CONNECT TO EXISTING 1" CT

R&D BOXES ALONG ABANDONED WATER MAIN

CONTINUED ON SHEET NO. 151

CONTINUED ON SHEET NO. 145

BURLINGTON STREET (PUBLIC)

BELMONT AVENUE (PUBLIC)

SUMNER AVENUE (ROUTE 83) (PUBLIC)

DICKINSON STREET (PUBLIC)

N

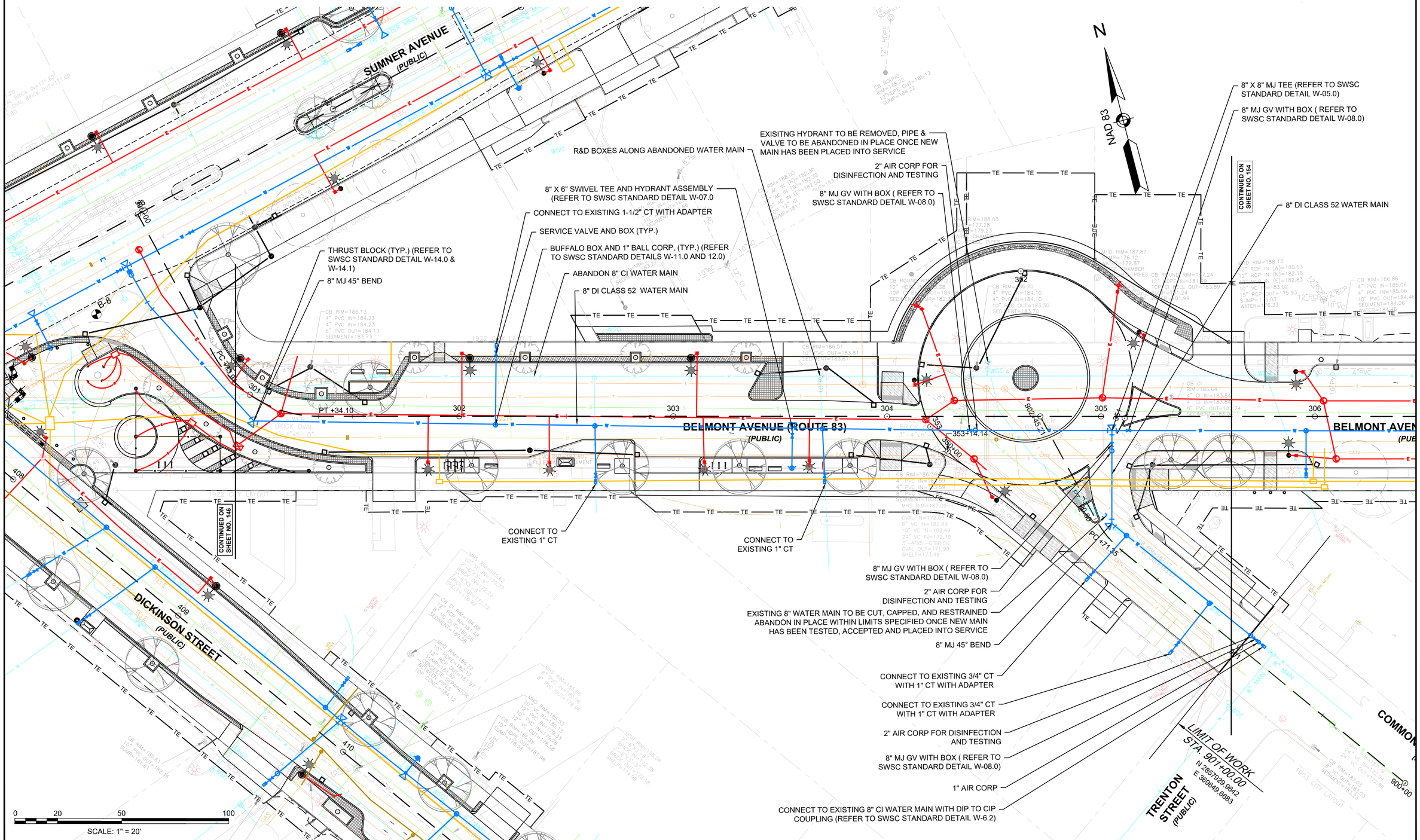
NAD 83

SCALE: 1" = 20'

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	153	358
PROJECT FILE NO.	608717		

UTILITY PLANS - WATERMAIN



20121457A70_UTL01_WMAIN.DWG Plotted on 5-May-2023 3:16 PM

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXX(XXX)X	154	358
PROJECT FILE NO.	608717		

UTILITY PLANS - WATERMAIN

Plotted on 5-May-2023 3:16 PM
20121457A70_UTL01_WMAIN.DWG

N

NAD 83

12" DI CLASS 52 WATER MAIN

8" X 6" SWIVEL TEE AND HYDRANT ASSEMBLY (REFER TO SWSC STANDARD DETAIL W-07.0

R&R EXISTING HYDRANT ONTO NEW HYDRANT BRANCH

CONNECT TO EXISTING 3/4" CT WITH 1" CT WITH ADAPTER

12" MJ 22.5° BEND

R&D BOXES ALONG ABANDONED WATER MAIN

CONTINUED ON SHEET NO. 153

CONTINUED ON SHEET NO. 155

ORMOND STREET (PUBLIC)

LIMIT OF WORK
STA. 309+32.36
N 2857942.4936
E 370032.4873

END ABANDONED WATER MAIN STA 308+70

EXISTING 12" WATER MAIN TO BE CUT, CAPPED AND ABANDONED IN PLACE WITHIN LIMITS SPECIFIED ONCE NEW MAIN HAS BEEN TESTED, ACCEPTED AND PLACED INTO SERVICE

12" MJ 45° BEND

1" AIR CORP

CONNECT TO EXISTING 12" CI WATER MAIN WITH DIP TO CIP COUPLING (REFER TO SWSC STANDARD DETAIL W-6.2)

12" MJ GV WITH BOX (REFER TO SWSC STANDARD DETAIL W-08.0)

2" AIR CORP FOR DISINFECTION AND TESTING

BELMONT AVENUE (ROUTE 83)
(PUBLIC)

CONNECT TO EXISTING 1" CT

8" DI CLASS 52 WATER MAIN

BUFFALO BOX AND 1" BALL CORP. (TYP.) (REFER TO SWSC STANDARD DETAILS W-11.0 AND 12.0)

SERVICE VALVE AND BOX (TYP.)

CONNECT TO EXISTING 1" CT

8" MJ GV WITH BOX (REFER TO SWSC STANDARD DETAIL W-08.0)

8"X12" REDUCER ONTO TEE

2" AIR CORP FOR DISINFECTION AND TESTING

12" MJ GV WITH BOX (REFER TO SWSC STANDARD DETAIL W-08.0)

12" MJ 45° BEND

12" DI CLASS 52 WATER MAIN

CONNECT TO EXISTING 1" CT

THRUST BLOCK (TYP.) (REFER TO SWSC STANDARD DETAIL W-14.0 & W-14.1)

12" X 12" MJ TEE (REFER TO SWSC STANDARD DETAIL W-05.0)

LIMIT OF WORK
STA. 901+00.00
N 2857929.9643
E 369649.6683

TRENTON STREET (PUBLIC)

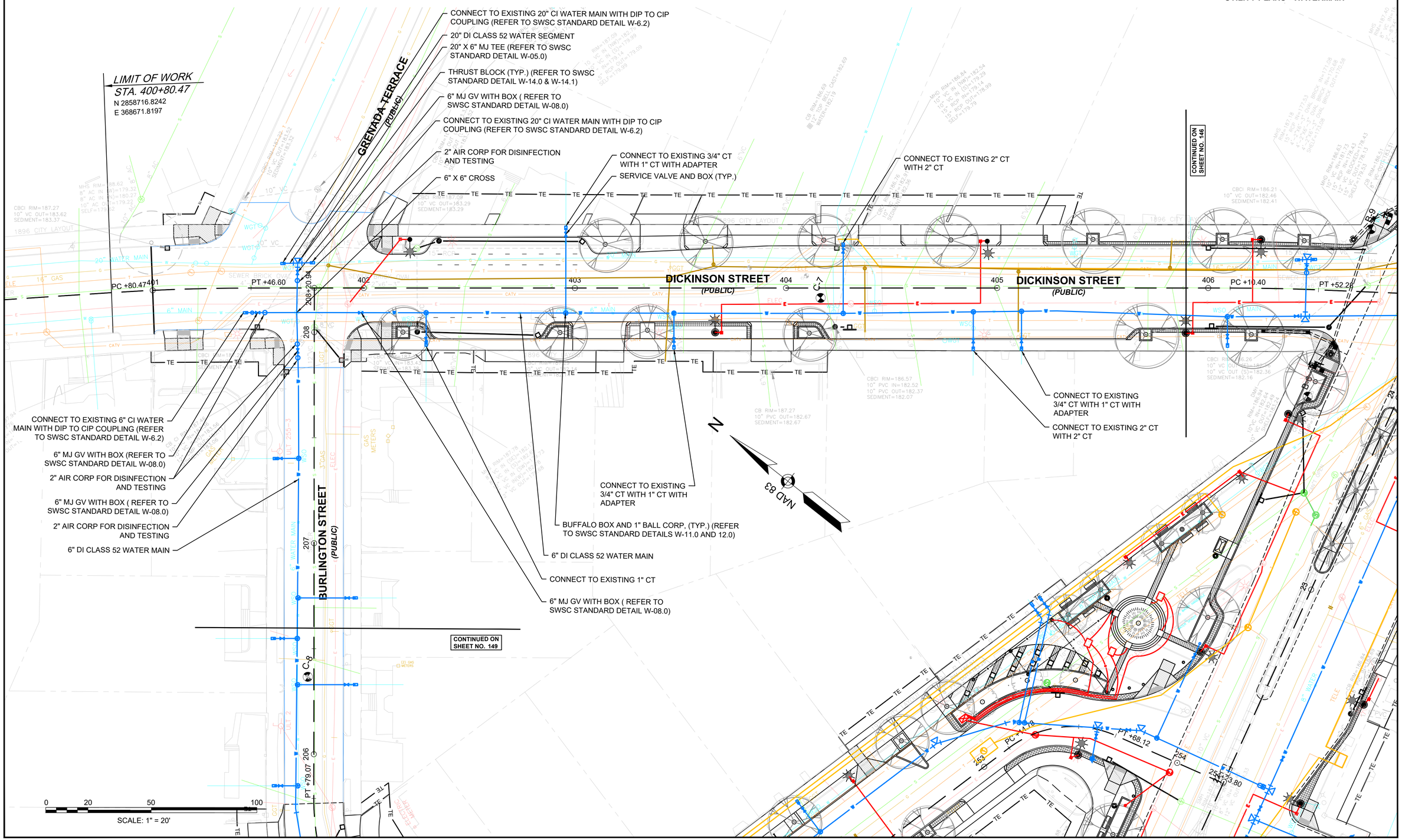
COMMONWEALTH AVENUE (PUBLIC)

0 20 50 100
SCALE: 1" = 20'

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	155	358
PROJECT FILE NO.	608717		

UTILITY PLANS - WATERMAIN



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SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	156	358
PROJECT FILE NO.	608717		

UTILITY PLANS - WATERMAIN

Plotted on 5-May-2023 3:17 PM
20121457A70_UTL01_WMAIN.DWG

NAD 83

TRENTON STREET
(PUBLIC)

DICKINSON STREET
(PUBLIC)

LIMIT OF WORK
STA. 413+51.42
N 2857703.1809
E 369437.9214

6" DI CLASS 52 WATER MAIN
R&D PREVIOUSLY CAPPED SERVICE
CONNECT TO EXISTING 1" CT
THRUST BLOCK (TYP.) (REFER TO SWSC STANDARD DETAIL W-14.0 & W-14.1)
6" X 6" MJ TEE (REFER TO SWSC STANDARD DETAIL W-05.0)
R&D PREVIOUSLY CAPPED SERVICE
R&D EXISITNG HYDRANT, PIPE, & VALVE
6" X 6" SWIVEL TEE AND HYDRANT ASSEMBLY (REFER TO SWSC STANDARD DETAIL W-07.0
CONNECT TO EXISTING 2" CT WITH 2" CT
CONNECT TO EXISTING 8" CI WATER MAIN WITH DIP TO CIP COUPLING (REFER TO SWSC STANDARD DETAIL W-6.2)
8"X6" SWIVEL TEE AND HYDRANT ASSEMBLY (REFER TO SWSC STANDARD DETAIL W-07.0)
6" MJ GV WITH BOX (REFER TO SWSC STANDARD DETAIL W-08.0)
2" AIR CORP FOR DISINFECTION AND TESTING
R&R EXISTING HYDRANT ONTO NEW HYDRANT BRANCH
6" MJ GV WITH BOX (REFER TO SWSC STANDARD DETAIL W-08.0)
CONNECT TO EXISTING 3/4" CT WITH 1" CT WITH ADAPTER
8" MJ GV WITH BOX (REFER TO SWSC STANDARD DETAIL W-08.0)
8" D CLASS 52 CL WATER MAIN
8" X 6" REDUCER
6" X6" MJ TEE (REFER TO SWSC STANDARD DETAIL W-05.0)

R&D SERVICE
2" AIR CORP FOR DISINFECTION AND TESTING
6" MJ GV WITH BOX (REFER TO SWSC STANDARD DETAIL W-08.0)
BUFFALO BOX AND 1" BALL CORP, (TYP.) (REFER TO SWSC STANDARD DETAILS W-11.0 AND 12.0)
CONNECT TO EXISTING 3/4" CT WITH 1" CT WITH ADAPTER
BUFFALO BOX AND 2" BALL CORP, (TYP.) (REFER TO SWSC STANDARD DETAILS W-11.0 AND 12.0)
PROP. TEST PIT 24" AND 6" WATER MAINS
SERVICE VALVE AND BOX (TYP.)
CONNECT TO EXISTING 2" CT WITH 2" CT
CONNECT TO EXISTING 6" CI WATER MAIN WITH DIP TO CIP COUPLING (REFER TO SWSC STANDARD DETAIL W-6.2)
CONNECT TO EXISTING 1.25" CT WITH ADAPTER
CONNECT TO EXISTING 1.5" CT WITH ADAPTER WITH ADAPTER CT
2" AIR CORP FOR DISINFECTION AND TESTING
6" MJ GV WITH BOX (REFER TO SWSC STANDARD DETAIL W-08.0)
1" AIR CORP
CONNECT TO EXISTING 6" CI WATER MAIN WITH DIP TO CIP COUPLING (REFER TO SWSC STANDARD DETAIL W-6.2)

CONTINUED ON SHEET NO. 146
CONTINUED ON SHEET NO. 158

0 20 50 100
SCALE: 1" = 20'

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXX(XXX)X	157	358
	PROJECT FILE NO. 608717		

UTILITY PLANS - WATERMAIN

20121457A70_UTL01_WMAIN.DWG Plotted on 5-May-2023 3:17 PM

N

NAD 83

12" DI CLASS 52 WATER MAIN

12" X 6" SWIVEL TEE AND HYDRANT BRANCH (REFER TO SWSC STANDARD DETAIL W-07.0

R&R EXISTING HYDRANT ONTO NEW HYDRANT BRANCH

CONNECT TO EXISTING 3/4" CT WITH 1" CT WITH ADAPTER

SERVICE VALVE AND BOX (TYP.)

BUFFALO BOX AND 1" BALL CORP, (TYP.) (REFER TO SWSC STANDARD DETAILS W-11.0 AND 12.0)

CONNECT TO EXISTING 3/4" CT WITH 1" CT WITH ADAPTER

6" MJ GV WITH BOX (REFER TO SWSC STANDARD DETAIL W-08.0)

CONNECT TO EXISTING 6" CIP FIRE PROTECTION SERVICE WITH DIP TO CIP COUPLING (REFER TO SWSC STANDARD DETAIL W-6.2)

CONNECT TO EXISTING 2" CT WITH 2" CT

LIMIT OF WORK
STA. 309+32.36
N 2857942.4936
E 370032.4873

A STREET
(PUBLIC)

SUMNER AVENUE
(PUBLIC)

ORMOND STREET
(PUBLIC)

ORMOND STREET
(PUBLIC)

NT AVENUE (ROUTE 83)
(PUBLIC)

CONTINUED ON SHEET NO. 148

CONTINUED ON SHEET NO. 152

0 20 50 100
SCALE: 1" = 20'

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	158	358
PROJECT FILE NO.	608717		

UTILITY PLANS - WATERMAIN

20121457A70_UTL01_WMAIN.DWG Plotted on 5-May-2023 3:17 PM

N

NAD 83

LIMIT OF WORK
STA. 600+00.00
N 2858365.7526
E 367403.4120

600+00 601 602 603 604 605 605+39.50

OAKLAND STREET
(PUBLIC)

SUMNER AVENUE (ROUTE 83)
(PUBLIC)

CONTINUED ON SHEET NO. 141

1986 CITY LAYOUT

POSSIBLE TREATMENT UNIT
CB RIM=184.74
10" PVC IN=181.54
6" PVC IN=181.24
OUTLET NOT VISIBLE
SHELF=181.44

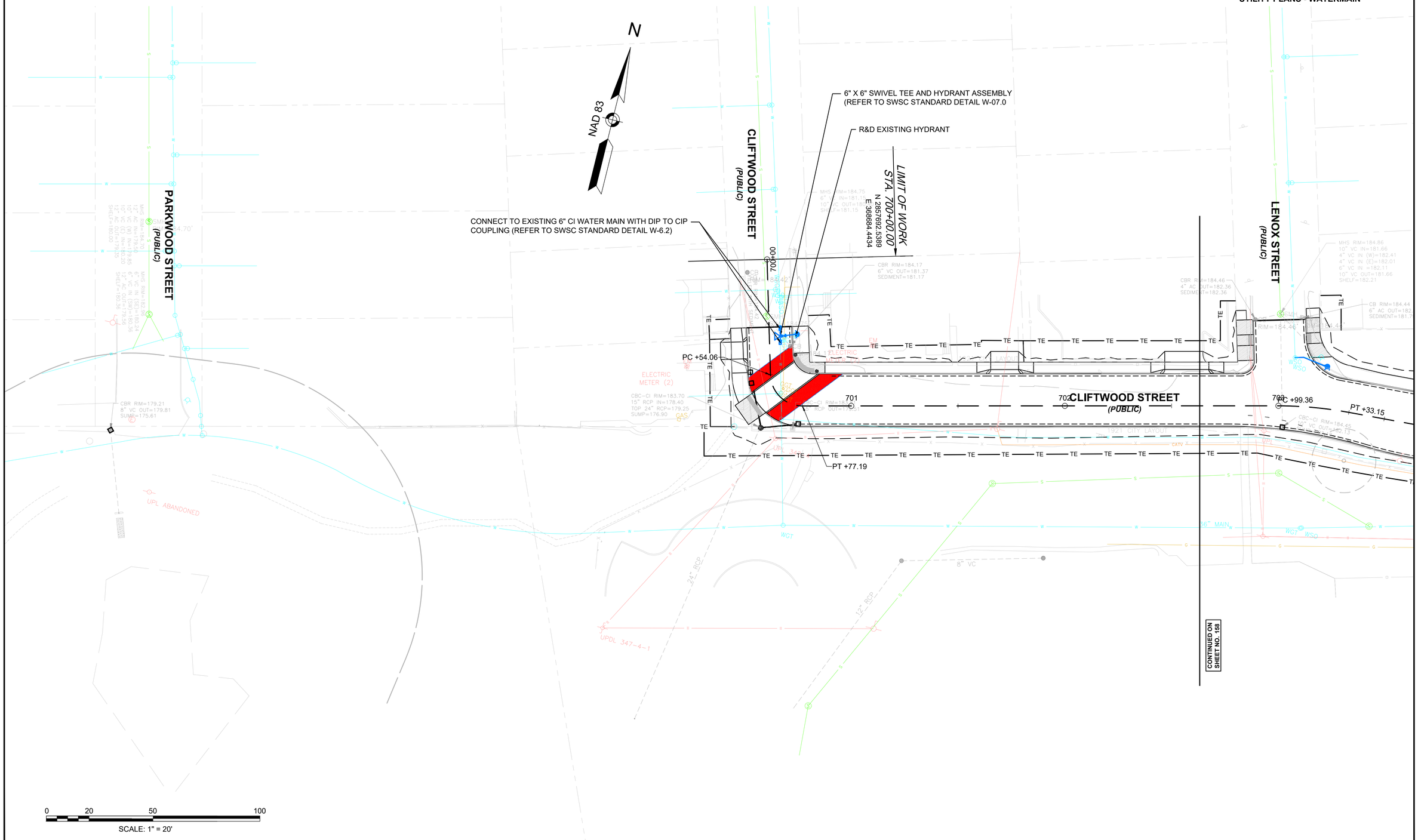
POSSIBLE TREATMENT UNIT
CB RIM=184.66
10" PVC IN=180.11
10" PVC IN=180.11
6" PVC IN=181.16
OUTLET NOT VISIBLE
SHELF=181.26

0 20 50 100
SCALE: 1" = 20'

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	159	358
PROJECT FILE NO.		608717	

UTILITY PLANS - WATERMAIN



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SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	158	358
PROJECT FILE NO.	608717		

UTILITY PLANS - WATERMAIN

N

NAD 83

LENOX STREET
(PUBLIC)

CLIFTWOOD STREET
(PUBLIC)

R&R EXISTING HYDRANT WITH SOLID SLEEVE COUPLING

PC +99.36
PT +33.15
PC +65.65
PT +99.25

C-8
C-9

CONTINUED ON SHEET NO. 157

CONTINUED ON SHEET NO. 154

0 20 50 100
SCALE: 1" = 20'

File Path: j:\DWG\P2012\1457\A70\CivilPlan\20121457A70_UTL01_WMAIN.dwg Layout: UTL 19 Plotted: Fri, May 05, 2023 - 3:17 PM User: espringer
MS VIEW: - LAYER STATE: - Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: MADOT-U-NJL.STB
20121457A70_UTL01_WMAIN.DWG Plotted on 5-May-2023 3:17 PM

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	161	358
PROJECT FILE NO.	608717		

TEMPORARY WATER BYPASS PLAN

Plotted on 5-May-2023 3:19 PM

20121457A70_BP02.DWG

N

NAD 83

SHEET 1
SHEET 2
SHEET 3
SHEET 4
SHEET 5
SHEET 6
SHEET 7
SHEET 8
SHEET 9
SHEET 10
SHEET 11
SHEET 12
SHEET 13
SHEET 14
SHEET 15
SHEET 16
SHEET 17
SHEET 18
SHEET 19
SHEET 20
SHEET 21
SHEET 22

CHURCHILL STREET
SUMNER TERR
OAKLAND STREET
KENWOOD STREET
BEAUMONT STREET
BELMONT AVENUE
BURLINGTON STREET
GRENADA TERR
DICKINSON STREET
VENTURA STREET
SORRENTO STREET
POMONA STREET
SUMNER AVENUE
MAIN GREETING ROAD
CONTINENTAL STREET
PARKWOOD STREET
CLIFTWOOD STREET
LENOX STREET
ORMOND STREET
DAYTONA STREET
TRENTON STREET
COMMONWEALTH STREET
WALDEN STREET

LEGEND

- PHASE 1
- PHASE 2
- PHASE 3
- PHASE 4
- PHASE 5
- PHASE 6A
- PHASE 6B
- PHASE 7

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	162	358
	PROJECT FILE NO. 608717		

TEMPORARY WATER BYPASS PLAN

20121457A70_BP02.DWG Plotted on 5-May-2023 3:19 PM

NOTES:

1. TEMPORARY WATER BYPASS PIPING INDICATED ON ALL SHEETS IS AN APPROXIMATE SCHEMATIC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT CONFIGURATION, SUBMITTING PLANS FOR APPROVAL OF THE TEMPORARY WATER BYPASS, AND SHALL COORDINATE WITH THE ENGINEER AND WATER DEPARTMENT DURING INSTALLATION.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING WATER SERVICE TO ALL PROPERTIES ABUTTING OR IMPACTED BY PROPOSED WORK.
3. TEMPORARY WATER BYPASSING SHALL BE BURIED AT ALL ROADWAY CROSSINGS. DRIVEWAYS SHALL BE BURIED WHERE SLOPES CANNOT BE MAINTAINED WITH ASPHALT PATCHING OR RAMPS.
4. CONTRACTOR TO FLUSH, PRESSURE TEST, AND DISINFECT BYPASS PIPING PRIOR TO DISCONNECTING EXISTING MAIN AND SERVICES. BYPASS MUST BE SAMPLED FOR BACTERIA BY SWSC LAB, AT MINIMUM, EVERY 500 FEET OF PIPE INSTALLED. CONTRACTOR SHALL PROVIDE SAMPLE POINTS AND FLUSHING DEVICES PER SWSC DETAIL W-10.0. SUCH PROVISIONS SHALL BE INCIDENTAL TO THE DUCTILE IRON PIPE ITEM.
5. SWSC IS A MEMBER OF DIG-SAFE, CALL DIG-SAFE 811 OR 1-888-DIG-SAFE A MINIMUM OF 72 HOURS PRIOR TO CONSTRUCTION.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION AND PROTECTION OF ALL TEMPORARY WATER BYPASS PIPES. CONTRACTOR SHALL MAINTAIN ADA COMPLIANCE ON ALL SIDEWALKS WHERE BYPASS PIPES ARE PROPOSED.

PHASE 1 - SUMNER AVENUE (OAKLAND STREET TO LENOX STREET)

1. THIS PHASE INCLUDES THE REPLACEMENT OF APPROXIMATELY 1,250 LINEAR FEET OF 8-INCH WATER MAIN. THE WORK INCLUDES THE REPLACEMENT OF WATER MAIN UP TO AND INCLUDING THE HYDRANT ON SEVERAL SIDE STREETS. SUCH WORK WILL BE COMPLETED DURING OVERNIGHT SHUTDOWNS TO MINIMIZE IMPACTS TO SERVICE AND TO MINIMIZE AMOUNT OF TEMPORARY BYPASS REQUIRED.

   THE FOLLOWING VALVES WILL BE SHUT DOWN WITHIN SUMNER AVENUE:

   - #20247 @ OAKLAND STREET INTERSECTION
   - #20249 ON OAKLAND STREET
   - #20245 AT SUMNER AVENUE AND OAKLAND STREET INTERSECTION
   - #1930 @ KENWOOD TERRACE
   - #4041 @ LENOX STREET

PHASE 2 - SUMNER AVENUE AT SPRINGFIELD "X" INTERSECTION (LENOX STREET TO VENTURA STREET)

1. THIS PHASE INCLUDES THE RELAY OF APPROXIMATELY 410 LINEAR FEET OF 8-INCH WATER MAIN. THIS PHASE WILL INCLUDE TRENCHING THROUGH THE SPRINGFIELD "X" INTERSECTION. DUE TO THE CLOSE PROXIMITY OF GATE VALVE #1001 TO THE SUMNER AVENUE MAIN, THE DICKINSON STREET MAIN SHALL BE SHUT DOWN FROM VALVE #3836 DURING THE AFOREMENTIONED WORK. DICKINSON STREET FROM BURLINGTON STREET TO SUMNER AVENUE WILL BE BYPASSED AT THE BEGINNING OF THIS PHASE AND WILL BE UTILIZED THROUGH THE DICKINSON STREET WATER MAIN REPLACEMENT PROPOSED IN PHASE 6.

   THE FOLLOWING VALVES WILL BE SHUT DOWN ON SUMNER AVENUE:

   - PROPOSED 8-INCH GATE VALVE AT APPROX. STA 21+66
   - #3836 (DICKINSON STREET)
   - #1001
   - #3843
   - #3842
   - #3881
   - #3884
   - #1048

PHASE 3 - SUMNER AVENUE WEST (VENTURA STREET TO DAYTONA STREET)

1. THIS PHASE INCLUDES THE REPLACEMENT OF APPROXIMATELY 830 LINEAR FEET OF 8-INCH WATER MAIN. PRIOR TO BEGINNING THIS PHASE, 8-INCH AND 16-INCH WATER MAINS ON SUMNER AVENUE SHALL BE INTERCONNECTED AND PROPOSED VALVES AND HYDRANTS SHALL BE INSTALLED (VENTURA, SORRENTA, POMONA, AND DAYTONA STREETS). THE WORK SHALL BE COMPLETED DURING AN OVERNIGHT SHUTDOWN UTILIZING MULTIPLE CREWS TO REINSTATE THE NEW MAIN PROMPTLY. UPON COMPLETION, PROPOSED GATE VALVES SHALL BE LEFT IN THE CLOSED POSITION UNTIL WORK ON SUMNER AVENUE IS COMPLETED. CONTRACTOR SHALL INSTALL AND CAP A LENGTH OF PIPE AFTER PROPOSED VALVE TO FACILITATE CONNECTION DURING SUMNER AVENUE WORK.

   THE FOLLOWING VALVES WILL BE SHUT DOWN ON SUMNER AVENUE:

   - PROPOSED 8-INCH GATE VALVE AT APPROX. STA 27+80
   - #3885
   - #1110
   - #14342
   - #1398
   - #1112
   - PROPOSED 8-INCH GATE VALVE AT APPROX. STA 33+95
   - #1751
   - PROPOSED 8-INCH GATE VALVE AT APPROX. STA 34+89

2. THE PROPOSED CONNECTION TO THE EXISTING 12-INCH CAST IRON WATER MAIN AT ORMOND STREET WILL REQUIRE AN OVERNIGHT SHUTDOWN OF THE 24-INCH WATER MAIN WITHIN SUMNER STREET (VALVE #14340, #14343, #4218, AND #1398 WILL NEED TO BE SHUT DOWN). THIS WILL OCCUR UPON COMPLETION OF THE 8-INCH WATER MAIN AND SHOULD NOT AFFECT BYPASS OPERATIONS.

PHASE 4 - BELMONT AVENUE (NORTH OF SUMNER STREET)

1. THIS PHASE CONSISTS OF THE REPLACEMENT OF 765 LINEAR FEET OF 8-INCH WATER MAIN. THE ALIGNMENT OF THE PROPOSED WATER MAIN DIFFERS FROM THE EXISTING ALIGNMENT AND THUS, THE EXISTING WATER MAIN CAN BE USED AS A BYPASS FOR ALL SERVICES ON BELMONT AVENUE. NO TEMPORARY BYPASS OPERATION IS PROPOSED AS PART OF THIS PHASE.

PHASE 5 - BELMONT AVENUE (SOUTH OF SUMNER AVENUE)

1. THIS PHASE CONSISTS OF THE REPLACEMENT OF APPROXIMATELY 892 LINEAR FEET OF 8-INCH WATER MAIN. THE EXISTING WATER MAIN IS PROPOSED TO BE USED FOR BYPASS OPERATIONS WHILE THE PROPOSED WATER MAIN IS CONSTRUCTED.

   COMMONWEALTH AVENUE (BELMONT AVENUE TO TRENTON STREET:

2. AS A PART OF THIS PHASE, APPROXIMATELY 135 LINEAR FEET OF WATER MAIN REPLACEMENT IS PROPOSED ON COMMONWEALTH AVENUE. AN OVERNIGHT SHUTDOWN TO CUT THE EXISTING 8-INCH WATER MAIN, SET COUPLING, SET THE PROPOSED GATE VALVE AT STA 901+00, AND LAY 18 FEET OF DUCTILE IRON PIPE IS PROPOSED. THE INSTALLATION OF THE NEW GATE VALVE WILL AVOID TEMPORARY BYPASS ON COMMONEWALTH AVENUE FROM WALDEN STREET TO TRENTON STREET.

   THE FOLLOWING VALVES WILL BE SHUT DOWN ON COMMONWEALTH AVENUE:

   - #2783
   - PROPOSED GATE VALVE AT STA 901+00

PHASE 6 - DICKINSON STREET AND BURLINGTON STREET

1. THIS PHASE CONSISTS OF THE REPLACEMENT OF APPROXIMATELY 1,270 LINEAR FEET OF 6-INCH CAST IRON WATER MAIN. THE PORTION OF DICKINSON STREET NORTH OF SUMNER AVENUE (SUMNER AVENUE TO BURLINGTON STREET) WILL BE PLACED ON TEMPORARY BYPASS DURING REPLACEMENT OF THE WATER MAIN WITHIN SUMNER AVENUE AT THE "X" INTERSECTION PREVIOUSLY DESCRIBED IN PHASE 2.
2. THIS PHASE INCLUDES THE REPLACEMENT OF 422 LINEAR FEET OF 6-INCH WATER MAIN ON BURLINGTON STREET. THE TEMPORARY BYPASS OF BURLINGTON STREET IS PROPOSED AT THE SAME TIME AS DICKINSON STREET.

   THE FOLLOWING VALVES WILL BE SHUT DOWN AS PART OF THIS WORK:

   - #1019
   - #1177

3. EXISTING HYDRANT #625 SHALL BE REMOVED AND RELOCATED TO BELMONT AVENUE. A TEMPORARY HYDRANT IS NOT PROPOSED FOR HYDRANT #625, AS THE WORK ON BELMONT AVENUE WILL BE COMPLETED PRIOR TO COMMENCING BYPASS OPERATIONS ON BURLINGTON STREET.

PHASE 6A - DICKINSON STREET NORTH (SUMNER AVENUE TO TRENTON STREET)

1. THIS PHASE INCLUDES A PROPOSED OVERNIGHT SHUTDOWN UTILIZING MULTIPLE CREWS TO COMPLETE THE WORK ALONG DICKINSON STREET FROM SUMNER AVENUE TO BURLINGTON STREET.

   THE FOLLOWING VALVES WILL BE SHUT DOWN AS PART OF THIS WORK:

   - #1229
   - #3836
   - #3844 (20-INCH BUTTERFLY VALVE)
   - #3843
   - #1002
   - #3837
   - #1019
   - #1007
   - #1286
   - #20104 (20-INCH BUTTERFLY VALVE)
   - #1001 (SHUT DOWN AS PART OF PHASE 2)

   THE FOLLOWING WORK WILL BE COMPLETED DURING THE OVERNIGHT SHUTDOWN:

   - STA 406+46 – CUT THE EXISTING 20-INCH MAIN, SET COUPLINGS, SET 20-INCH X 6-INCH TEE, SET 6-INCH GATE VALVE, LAY 18 FEET OF 6-INCH DUCTILE PIPE TO BE CAPPED AND CONNECTED LATER.
   - ADJACENT TO STA 402+50 (CONNECT TO EXISTING 6-INCH MAIN, INSTALL 6-INCH GATE VALVE, LAY DUCTILE IRON PIPE, SET CROSS AT BURLINGTON STREET, AND LAY 18 FEET OF DUCTILE PIPE TOWARDS EXISTING VALVE #3836).
   - ADJACENT TO STA 402+32 (SET TWO COUPLINGS AND CONNECT TO EXISTING 20-INCH MAIN, SET NEW 20-INCH X 6-INCH TEE, SET 6-INCH GATE VALVE, LAY 6-INCH DUCTILE PIPE, SET 6-INCH X 6-INCH TEE).

   THIS INSTALLATION WILL AVOID HAVING TO PROVIDE TEMPORARY BYPASS FROM BURLINGTON STREET TO ALDERMAN STREET DUE TO THE LOCATION OF THE EXISTING VALVES ON THE 6-INCH MAIN.

PHASE 6B - DICKINSON STREET SOUTH (SUMNER AVENUE TO TRENTON STREET)

1. THIS PHASE INCLUDES AN OVERNIGHT SHUTDOWN OF THE 6-INCH WATER MAIN FROM WALDEN STREET TO TRENTON STREET PRIOR TO PERFORMING TEMPORARY BYPASS ALONG DICKINSON STREET. THE FOLLOWING WORK WILL BE COMPLETED DURING THE OVERNIGHT SHUTDOWN.

   - CUT EXISTING 8-INCH MAIN ON TRENTON STREET, SET NEW COUPLING, LAY 6-INCH PIPE AND SET HYDRANT, LAY NEW DUCTILE IRON PIPE, AND SET NEW 6-INCH X 6-INCH TEE.
   - PROPOSED WORK FROM APPROXIMATELY STA 413+05 TO STA 413+52 (LAY NEW 6-INCH DUCTILE MAIN, SET 6-INCH VALVE AND CONNECT TO 6-INCH X 6-INCH TEE.

   THE FOLLOWING VALVES WILL BE SHUT DOWN AS PART OF THIS WORK:

   - #2593
   - #20195
   - #1163
   - #1271

   UPON COMPLETION OF THE WORK, THE FOLLOWING VALVES WILL BE SHUT DOWN FOR THE RELAY OF THE 6-INCH MAIN:

   - PROPOSED 8-INCH GATE VALVE AT APPROX. STA 24+70 ON SUMNER AVENUE
   - PROPOSED 8-INCH GATE VALVE AT APPROX. STA 24+93 ON SUMNER AVENUE
   - #1051
   - PROPOSED NEW 8-INCH GATE VALVE AT #20196
   - PROPOSED NEW 6-INCH GATE VALVE AT APPROX. STA 413+42
   - #2750

2. A DIG DOWN CONNECTION TO THE 6-INCH WATER MAIN WITHIN SPRINGFIELD "X" COURT WILL BE COMPLETED AS PART OF THE TEMPORARY BYPASS TO SERVE THE FIRE SUPPRESSION AND SERVICES OFF THE EXISTING 6-INCH MAIN.

PHASE 7 - ORMOND STREET (BELMONT AVENUE TO SUMNER AVENUE)

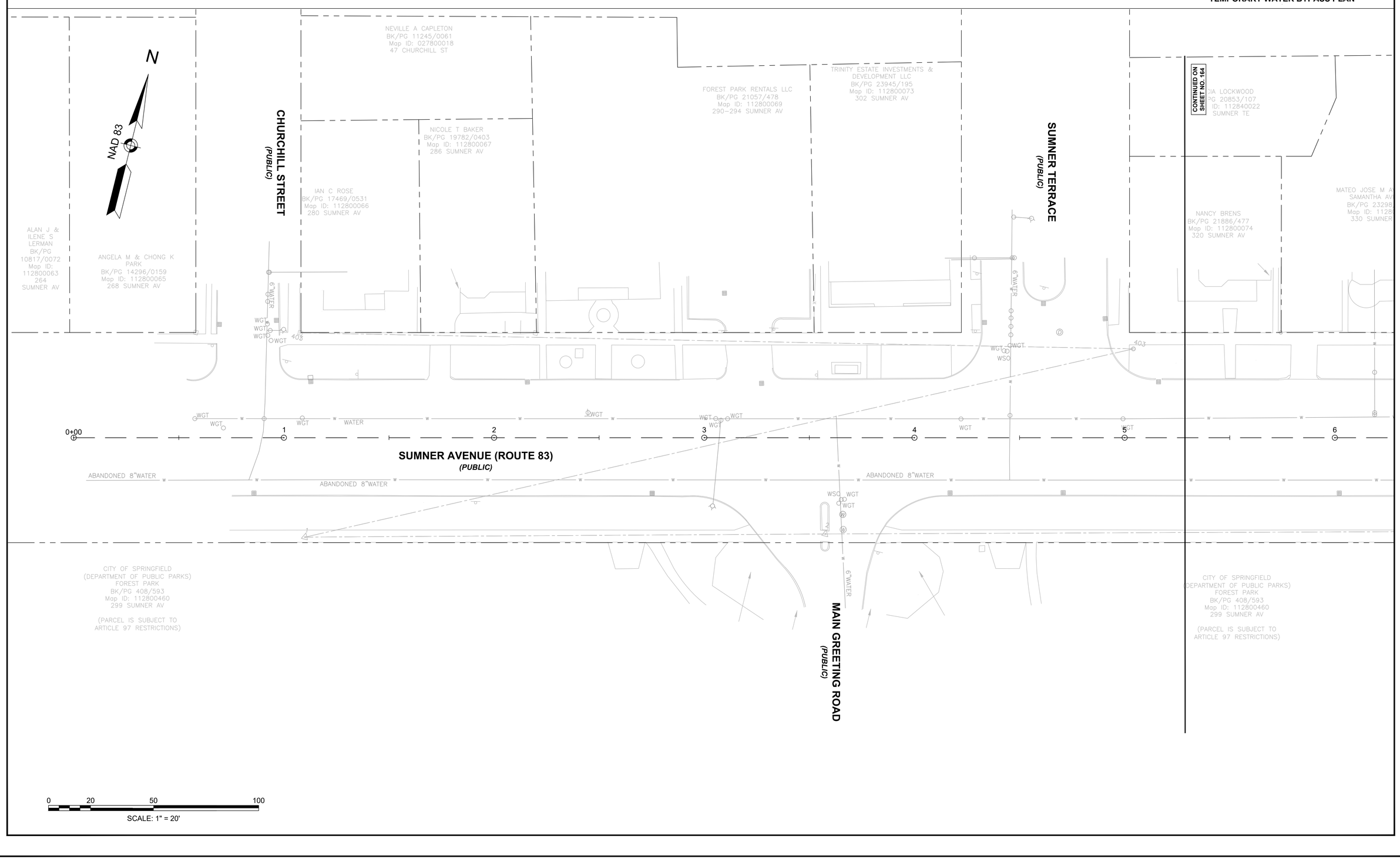
1. THIS PHASE INCLUDES THE RELAY OF APPROXIMATELY 450 LINEAR FEET OF 12-INCH WATER MAIN. PRIOR TO PERFORMING TEMPORARY BYPASS OF ORMOND STREET, WE PROPOSE AN OVERNIGHT SHUTDOWN OF THE ORMOND STREET WATER MAIN (VALVES #1397 AND #1398) TO COMPLETE THE PROPOSED HYDRANT WORK FROM STA 504+00 TO STA 504+54 AND LAY 18 FEET OF DUCTILE PIPE. UPON COMPLETION OF THIS WORK, THE CONTRACTOR SHALL PERFORM TEMPORARY BYPASS OPERATIONS ON ORMOND STREET.

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXX(XXX)X	163	358
PROJECT FILE NO.	608717		

TEMPORARY WATER BYPASS PLAN

Plotted on 5-May-2023 3:19 PM
20121457A70_BP02.DWG



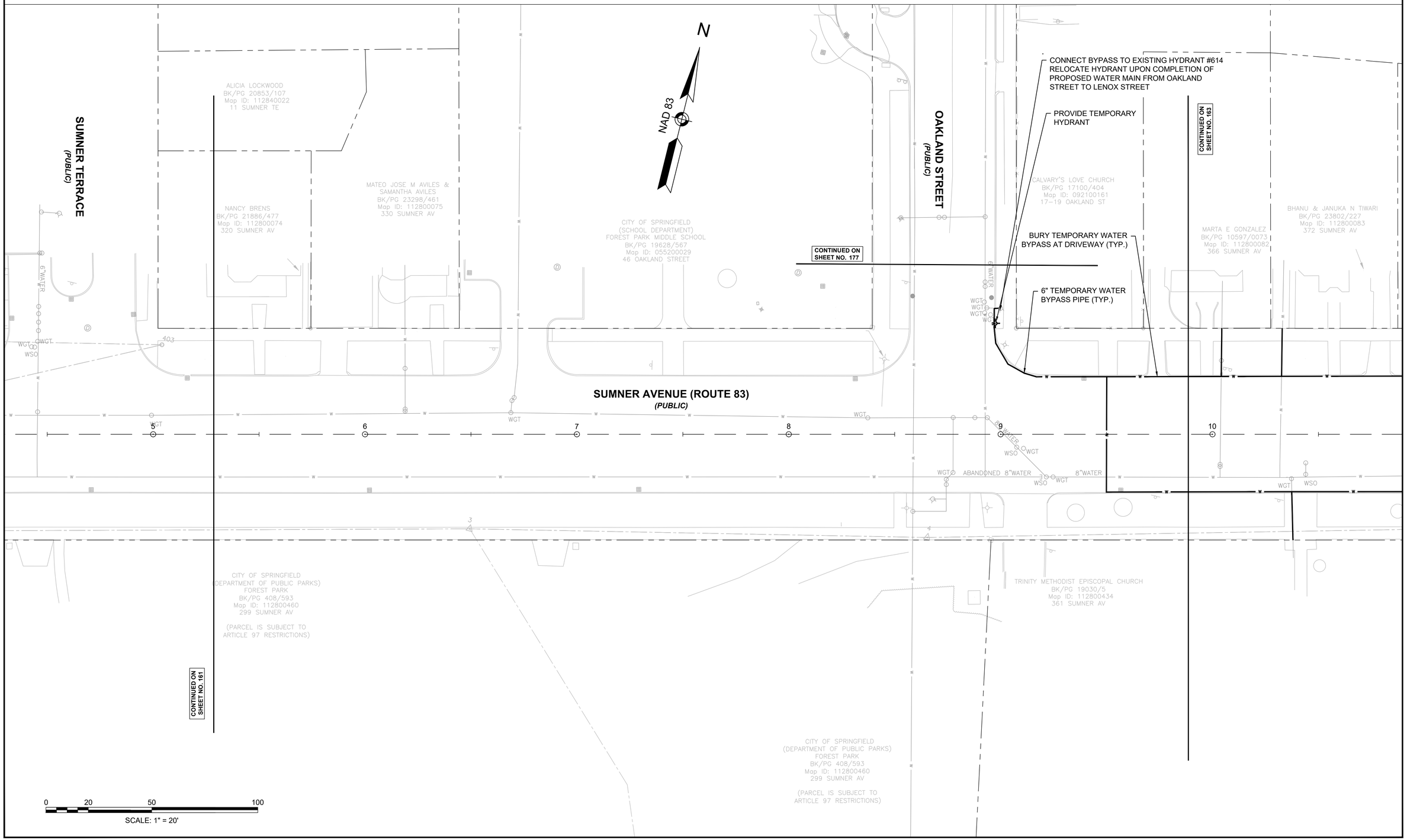
NOTE: EXCAVATION FOR PROPOSED TREES SHALL NOT EXCEED 4' FROM STA. 2+00 TO 19+25 RT TO AVOID EXISTING SEWER LINE.

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXX(XXX)X	164	358
	PROJECT FILE NO. 608717		

TEMPORARY WATER BYPASS PLAN

20121457A70_BP02.DWG Plotted on 5-May-2023 3:19 PM



NOTE: EXCAVATION FOR PROPOSED TREES SHALL NOT EXCEED 4' FROM STA. 2+00 TO 19+25 RT TO AVOID EXISTING SEWER LINE.

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXX(XXX)X	165	358
PROJECT FILE NO.	608717		

TEMPORARY WATER BYPASS PLAN

20121457A70_BP02.DWG Plotted on 5-May-2023 3:19 PM

N

NAD 83

SET HOT MIX ASPHALT RAMP UNDER 2% GRADE FOR TEMPORARY SERVICES CROSSING SIDEWALK (TYP.)

TEMPORARY SERVICE TO RESIDENTIAL HOME

TEMPORARY SERVICE TO RESIDENTIAL HOME

TEMPORARY BYPASS TO BE BURIED AT ROADWAY CROSSING (TYP.)

PROVIDE TEMPORARY HYDRANT

TEMPORARY SERVICE TO RESIDENTIAL HOME

TEMPORARY SERVICE TO RESIDENTIAL HOME

CONTINUED ON SHEET NO. 164

ERIK G. SCOTT
BK/PG 23890/595
Map ID: 072520003
16 KENWOOD TER

LOTCUS LLC
BK/PG 24804/322
Map ID: 072520021
17 KENWOOD TER

GREGORY A. & EVA ROUGELLIS
BK/PG 05885/202
Map ID: 011450003
16 BEAUMONT ST

CALVARY'S LOVE CHURCH
BK/PG 17100/404
Map ID: 092100161
17-19 OAKLAND ST

MARTA E GONZALEZ
BK/PG 10597/0073
Map ID: 112800082
366 SUMNER AV

BHANU & JANUKA N TIWARI
BK/PG 23802/227
Map ID: 112800083
372 SUMNER AV

KERUBE FARHADI
BK/PG 22078/523
Map ID: 112800084
376-378 SUMNER AV

ANDREW W VIVENZIO
BK/PG 12956/0494
Map ID: 112800085
390 SUMNER AV

DAO VU
BK/PG 15728/0310
Map ID: 112800086
398 SUMNER AV

ROSEMARY PEREZ
BK/PG 15061/0330
Map ID: 112800087
402 SUMNER AV

TOWER REALTY PARKER ST LLC
BK/PG 23062/120
Map ID: 112800088
408 SUMNER AV

PARKRIDGE PRO
BK/PG 178
Map ID: 112
420 SUMN

KENWOOD TERRACE
(PUBLIC)

BEAUMONT STREET
(PUBLIC)

SUMNER AVENUE (ROUTE 83)
(PUBLIC)

9 10 11 12 13 14 15

8" WATER
ABONED 8"WATER
8"WATER
8" MAIN
8" MAIN
WGT
WSO

TRINITY METHODIST EPISCOPAL CHURCH
BK/PG 19030/5
Map ID: 112800434
361 SUMNER AV

TEMPORARY SERVICE TO TRINITY CHURCH. 4-INCH DOMESTIC SERVICE DIG DOWN CONNECTION REQUIRED

TRINITY METHODIST EPISCOPAL CHURCH
BK/PG 19030/5
Map ID: 112800434
361 SUMNER AV

TEMPORARY SERVICE TO RESIDENTIAL HOME

TEMPORARY SERVICE TO RESIDENTIAL HOME

PROVIDE TEMPORARY HYDRANT

6" TEMPORARY WATER BYPASS PIPE (TYP.)

GEN-WEALTH PROPERTIES LLC
BK/PG 24814/392
Map ID: 112800426
407 SUMNER AV

JOSE L ESTEVEZ
BK/PG 16331/0161
Map ID: 112800425
415 SUMNER AV

PHUONG L. DO
BK/PG 15068/0443
Map ID: 031500017
11 CONTINENTAL ST

CONTINUED ON SHEET NO. 162

CONTINENTAL STREET
(PUBLIC)

0 20 50 100
SCALE: 1" = 20'

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXX(XXX)X	166	358
	PROJECT FILE NO. 608717		

TEMPORARY WATER BYPASS PLAN

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BEAUMONT STREET (PUBLIC)

GREGORY A. & EVA ROUGELLIS
BK/PG 05885/202
Map ID: 011450009
16 BEAUMONT ST

EDWARD M. & JOANNE M. PIKULA
BK/PG 08007/0095
Map ID: 011450036
17 BEAUMONT ST

NALANI CAPITAL LLC
BK/PG 24840/148 (PARCEL 5)
Map ID: 012350103
BELMONT AV

TEMPORARY SERVICE TO RESIDENTIAL HOME

TEMPORARY SERVICE TO RESIDENTIAL HOME

PROVIDE TEMPORARY HYDRANT

TEMPORARY SERVICE TO RESIDENTIAL HOME

CONTINUED ON SHEET NO. 165

N

NAD 83

6" TEMPORARY WATER BYPASS PIPE (TYP.)

TEMPORARY SERVICE TO TACO BELL

TOWER REALTY PARKER ST LLC
BK/PG 23062/120
Map ID: 112800088
408 SUMNER AV

ROSEMARY PEREZ
BK/PG 15061/0330
Map ID: 112800087
402 SUMNER AV

PARKRIDGE PROPERTIES LLC
BK/PG 17660/288
Map ID: 112800089
420 SUMNER AV

ALTAGRACIA MIRIAM ESTRELLA DE URENA
BK/PG 24398/420
Map ID: 112800090
426 SUMNER AV

ISAAC GRULLON COLON
BK/PG 24472/564
Map ID: 112800091
432 SUMNER AV

SUMNER LLC
BK/PG 20291/164
Map ID: 112800092
440 SUMNER AV

PERSAM SPRINGFIELD LLC
BK/PG 21500/242
Map ID: 112800095
444 SUMNER AV

SUMNER AVENUE (ROUTE 83)
(PUBLIC)

14 15 16 17 18 19 20

WGT 8" MAIN WSO WGT WSO WGT WSO WGT WGT 8" MAIN WGT WGT

6"WATER 6"WATER

TEMPORARY SERVICE TO RESIDENTIAL HOME

TEMPORARY SERVICE TO RESIDENTIAL HOME

PROVIDE TEMPORARY HYDRANT

GEN-WEALTH PROPERTIES LLC
BK/PG 24814/392
Map ID: 112800426
407 SUMNER AV

TY G MEZZETTI
BK/PG 24949/301
Map ID: 112800424
419 SUMNER AV

PARKWOOD APARTMENTS LLC
BK/PG 18274/408
Map ID: 112800423
425 SUMNER AV

RF REALTY COMPANY LLC
BK/PG 19577/357
Map ID: 112800419
449 SUMNER AV

RF REALTY COMPANY LLC
BK/PG 19577/357
Map ID: 112800421
445 SUMNER AV

RF REALTY COMPANY LLC
BK/PG 19577/357
Map ID: 112800421
445 SUMNER AV

RICHARD J. LABR
BK/PG 1293
Map ID: 112
461 SUMNE

CONTINENTAL STREET (PUBLIC)

CONTINUED ON SHEET NO. 163

JOSE L. ESTEVEZ
BK/PG 16331/0161
Map ID: 112800425
415 SUMNER AV

PHUONG L. DO
BK/PG 15068/0443
Map ID: 031500017
11 CONTINENTAL ST

PARKWOOD STREET (PUBLIC)

FELIZ AREZ JR
BK/PG 22210/406
Map ID: 095300003
14 PARKWOOD ST

CLIFTWOOD STREET (PUBLIC)

0 20 50 100
SCALE: 1" = 20'

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	167	358
PROJECT FILE NO.	608717		

TEMPORARY WATER BYPASS PLAN

Plotted on 5-May-2023 3:19 PM

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N

NAD 83

BELMONT AVENUE (PUBLIC)

NALANI CAPITAL LLC
BK/PG 24840/148 (PARCEL 5)
Map ID: 012330103
BELMONT AV

MINH TAI INC
BK/PG 21390/127
Map ID: 012350259
BELMONT AV

MINH TAI INC
BK/PG 21390/131
Map ID: 012350258
523 BELMONT AV

THOMAS & KIM HUONG
BK/PG 27787/0515
Map ID: 037000099
400 DICKINSON ST

BRIAN M & JACQUELYN
BK/PG 11645/0145
Map ID: 112800093
312 SUMNER AV

PERSAM SPRINGFIELD LLC
BK/PG 21500/242
Map ID: 112800095
444 SUMNER AV

SUMNER LLC
BK/PG 20291/164
Map ID: 112800092
440 SUMNER AV

CUMBERLAND FARMS INC
BK/PG 06101/0419
Map ID: 112800098
470 SUMNER AV

252

253

PC +14.78

PT +68.12

254

254+23.30

8" WATER MAIN

WATER HANDHOLE

WATER SHUTOFF

WSO

GWSO

WGT

SUMNER AVENUE (ROUTE 83)
(PUBLIC)

18 19 20 21 23

SUMNER AVENUE (ROUTE 83)
(PUBLIC)

8" MAIN

8" WATER

6" WATER

RF REALTY COMPANY LLC
BK/PG 19577/357
Map ID: 112800421
445 SUMNER AV

RF REALTY COMPANY LLC
BK/PG 19577/357
Map ID: 112800419
449 SUMNER AV

RF REALTY COMPANY LLC
BK/PG 19577/357
Map ID: 112800421
445 SUMNER AV

RICHARD J LABRIE TRUSTEE
BK/PG 12931/0013
Map ID: 112800418
461 SUMNER AV

SUMNER AVENUE
473-477 LLC
BK/PG 22758/383
Map ID: 112800417
473 SUMNER AVE

SUMNER AVENUE
473-477 LLC
BK/PG 22758/383
Map ID: 112800416
475-479 SUMNER AV

LENOX CHARITABLE FUND INC
BK/PG 07211/0088
Map ID: 112800415
485-489 SUMNER AV

PETRAKIS REALTY LLC &
CARDINAL REALTY CO
BK/PG 20510/373
Map ID: 112800414
501 SUMNER AV

LENOX CHARITABLE FUND INC
BK/PG 06254/0151
Map ID: 076800015
15 LENOX ST

TEMPORARY SERVICE
TO GOODWILL SHOPPES
#473 SUMNER AVENUE

PROVIDE TEMPORARY
HYDRANT

6" TEMPORARY WATER
BYPASS PIPE (TYP.)

CLIFTWOOD STREET
(PUBLIC)

LENOX STREET
(PUBLIC)

CONTINUED ON SHEET NO. 164

CONTINUED ON SHEET NO. 166

0 20 50 100

SCALE: 1" = 20'

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	168	358
PROJECT FILE NO.	608717		

TEMPORARY WATER BYPASS PLAN

Plotted on 5-May-2023 3:19 PM
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BELMONT AVENUE (PUBLIC)
SUMNER AVENUE (ROUTE 83) (PUBLIC)
DICKINSON STREET (PUBLIC)
LENOX STREET (PUBLIC)
CLIFTWOOD STREET
DICKINSON STREET (PUBLIC)

CONTINUED ON SHEET NO. 171
CONTINUED ON SHEET NO. 165
CONTINUED ON SHEET NO. 167

6" TEMPORARY WATER BYPASS PIPE (TYP.)

CONNECT TEMPORARY BYPASS TO EXISTING HYDRANT #2294. PROVIDE TEMPORARY HYRDANT

PROVIDE TEMPORARY HYDRANT

CONNECT TO HYDRANT #2296. CONTRACTOR TO REPLACE HYDRANT AND INSTALL GATE VALVES PRIOR TO TEMPORARY BYPASS OPERATIONS.

N
NAD 83

0 20 50 100
SCALE: 1" = 20'

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	169	358
PROJECT FILE NO.	608717		

TEMPORARY WATER BYPASS PLAN

20121457A70_BP02.DWG Plotted on 5-May-2023 3:19 PM

N

NAD 83

DICKINSON STREET (PUBLIC)

VENTURA STREET (PUBLIC)

SUMNER AVENUE (PUBLIC)

BELMONT AVENUE (ROUTE 83) (PUBLIC)

DICKINSON STREET (PUBLIC)

CONTINUED ON SHEET NO. 174

CONTINUED ON SHEET NO. 168

CONTINUED ON SHEET NO. 166

CONTINUED ON SHEET NO. 175

CONTINUED ON SHEET NO. 172

TEMPORARY SERVICE TO KEVIN MURPHY LAW OFFICE

6" TEMPORARY WATER BYPASS PIPE (TYP.)

PC +10.40

PT +52.28

PROVIDE TEMPORARY HYDRANT

CONNECT TO EXISTING HYDRANT #626. PROPOSED WORK WITHIN SUMNER AVE TO BE COMPLETED PRIOR TO USING HYDRANT FOR BYPASS OPERATION ALONG DICKINSON STREET

TEMPORARY SERVICE TO WALGREENS. CONTRACTOR TO CONFIRM SERVICES PRIOR TO CONSTRUCTION

PC +73.91

PT +34.10

CONNECT TEMPORARY BYPASS TO PROPOSED HYDRANT #5626. HYDRANT TO BE INSTALLED PRIOR TO BYPASS OPERATIONS ON SUMNER AVE

PROVIDE TEMPORARY HYDRANT

THOMAS & KIM VUONG
BK/PG 21787/0515
Map ID: 039100086
400 DICKINSON ST

BRIAN M & JACQUELINE M TOREY
BK/PG 11045/0145
Map ID: 112800099
512 SUMNER AV

MUAYYAD REALTY LLC
BK/PG 22697/574
Map ID: 039100456
501 (PARCEL 3) DICKINSON ST

GULMOHUR 546 SUMNER CORPORATION
BK/PG 15811/0010
Map ID: 112800103
(PARCEL C)
534 SUMNER AV

GULMOHUR 546 SUMNER CORPORATION
BK/PG 15811/0010
Map ID: 112800103
(PARCEL A)
534 SUMNER AV

MUAYYAD REALTY LLC
BK/PG 22697/574
Map ID: 112800101
(PARCEL 2)
530 SUMNER AV

GULMOHUR 546 SUMNER CORPORATION
BK/PG 15811/0010
Map ID: 112800104
544–550 SUMNER AV

TRAN LONG K & TUYETNHUNG HO
BK/PG 22084/491
Map ID: 118350021
73 VENTURA ST

HUU AND MINH LLC
BK/PG 18676/120
Map ID: 112800105
556 SUMNER AV

PETRAKIS REALTY LLC & CARDINAL REALTY CO
BK/PG 20510/373
Map ID: 112800414
501 SUMNER AV

RICHARD P. CROWLEY & JOHN BONAVITA & CAROL SLATE TRUSTEES
BK/PG 17485/0163
Map ID: 012350254
(PARCEL 2)
585 BELMONT AV

RICHARD P. CROWLEY & JOHN BONAVITA & CAROL SLATE TRUSTEES
BK/PG 17485/0163
Map ID: 012350250
(PARCEL 1)
549 BELMONT AV

SPRINGFIELD INSTITUTION FOR SAVINGS
BK/PG 2485/395
Map ID: 112800407
SUMNER AV

SPRINGFIELD INSTITUTION FOR SAVINGS
BK/PG 1984/221
Map ID: 112800405
561 SUMNER AV

SPRINGFIELD INSTITUTION FOR SAVINGS
BK/PG 1984/225
Map ID: 012350247
BELMONT AV

AGREE EASTE
BK/PG 74095
Map ID: 01235
(PARCEL 2)
BELMONT AV

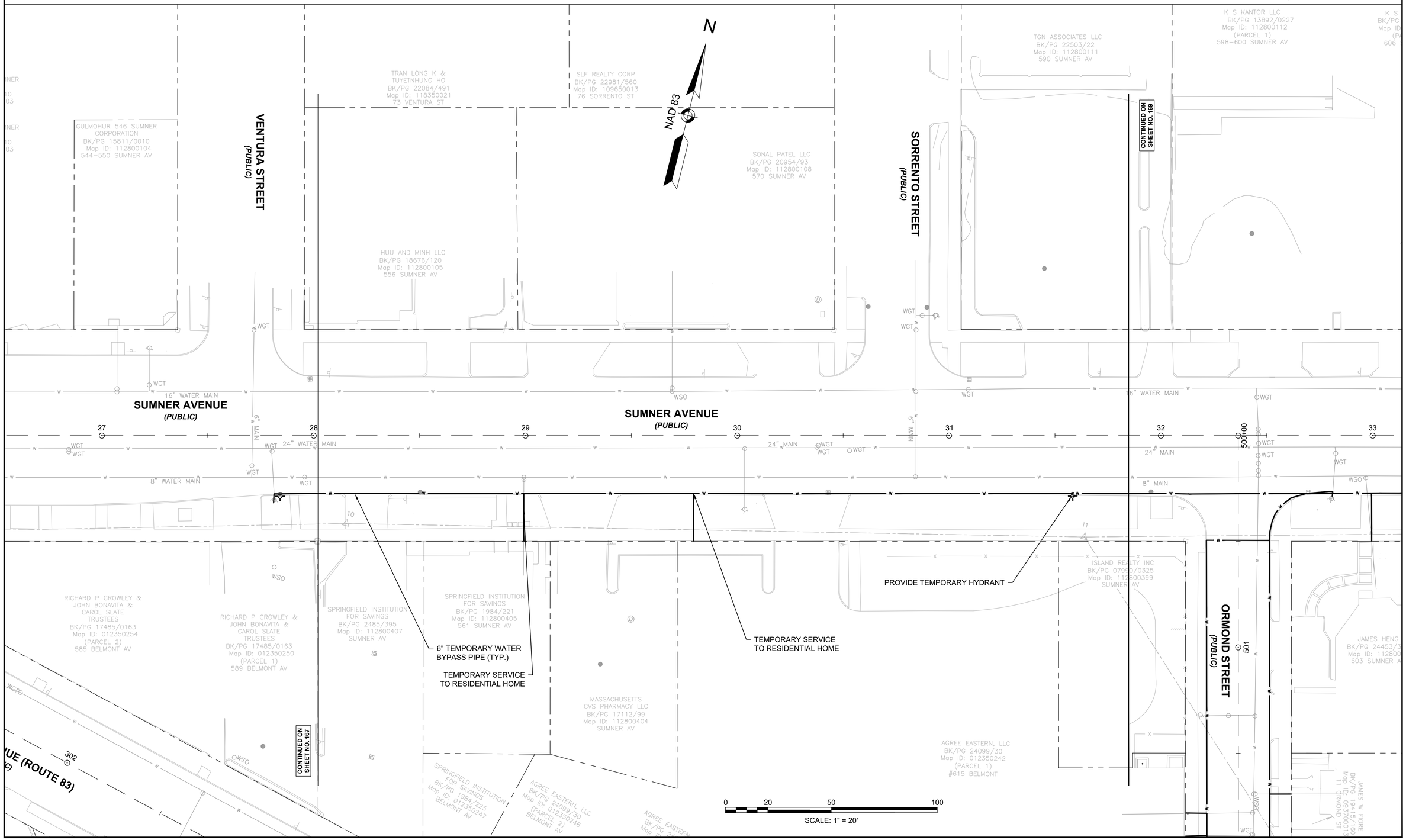
0 20 50 100

SCALE: 1" = 20'

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	170	358
PROJECT FILE NO.		608717	

TEMPORARY WATER BYPASS PLAN



20121457A70_BP02.DWG Plotted on 5-May-2023 3:20 PM

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	171	358
PROJECT FILE NO.	608717		

TEMPORARY WATER BYPASS PLAN

20121457A70_BP02.DWG Plotted on 5-May-2023 3:20 PM

N

NAD 83

TGN ASSOCIATES LLC
BK/PG 22503/22
Map ID: 112800111
590 SUMNER AV

K S KANTOR LLC
BK/PG 13892/0227
Map ID: 112800112
(PARCEL 1)
598-600 SUMNER AV

K S KANTOR LLC
BK/PG 13892/0227
Map ID: 112800113
(PARCEL 2)
606 SUMNER AV

SORRENTO STREET
(PUBLIC)

POMONA STREET
(PUBLIC)

ANTHONY NASH YEBOAH
BK/PG 22155/140
Map ID: 112800114
618 SUMNER AV

BAO PHUONG & JOHNNY DIEP
BK/PG 23818/358
Map ID: 112800115
624 SUMNER AV

ADAN ESTRADA &
CARMEN D RAMOS
BK/PG 12300/0033
Map ID: 112800116
630 SUMNER AV

ROSA P RYAN
BK/PG 19017/97
Map ID: 112800117
636 SUMNER AV

TEMPORARY SERVICE
TO RESIDENTIAL HOME

TEMPORARY SERVICE
TO WIS INTERNATIONAL

CONNECT TEMPORARY BYPASS
TO EXISTING HYDRANT #5628
FOR PROPOSED WORK ON
ORMOND STREET.

TEMPORARY SERVICE
TO RESIDENTIAL HOME

WGT

WSO

6" MAIN

6" WATER MAIN

16" MAIN

WSO?

SUMNER AVENUE
(PUBLIC)

31

32

500+00

33

34

35

35+50

24" MAIN

8" MAIN

WSO ?

ISLAND REALTY INC
BK/PG 07959/0325
Map ID: 112800399
SUMNER AV

ORMOND STREET
(PUBLIC)

501

CONTINUED ON
SHEET NO. 176

JAMES HENG
BK/PG 24453/393
Map ID: 112800398
603 SUMNER AV

WILLIAM E JR & LYN CUNNINGHAM
TRUSTEES
BK/PG 20755/551
Map ID: 112800397
609 SUMNER AV

DENNIS C & BARBARA A
BURROUGHS
BK/PG 23899/335
Map ID: 112800396
615 SUMNER AV

YAMILETTE M OSTOLAZA
BK/PG 22246/312
Map ID: 112800395
619 SUMNER AV

DAYTONA STREET
(PUBLIC)

JACKSON RUIZ
BK/PG 18378/498
Map ID: 112800394
629 SUMNER AV

SALLY & JOHNNY DIEP
BK/PG 22072/512
Map ID: 1112800393
635 SUMNER AV

JOAN PRINCE
BK/PG 23166/311
Map ID: 112800392
639 SUMNER AV

CONNECT TEMPORARY BYPASS TO
EXISTING HYDRANT #5629

TEMPORARY SERVICE
TO RESIDENTIAL HOME

6" TEMPORARY WATER
BYPASS PIPE (TYP.)

PROVIDE TEMPORARY HYDRANT

AGREE EASTERN, LLC
BK/PG 24099/30
Map ID: 012350242
(PARCEL 1)
#615 BELMONT

CONTINUED ON
SHEET NO. 168

JAMES W FIORE
BK/PG 19415/162
Map ID: 093700013
11 ORMOND ST

0 20 50 100

SCALE: 1" = 20'

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	172	358
PROJECT FILE NO.	608717		

TEMPORARY WATER BYPASS PLAN

20121457A70_BP02.DWG Plotted on 5-May-2023 3:20 PM

TEMPORARY SERVICE TO RESIDENTIAL HOME

TEMPORARY SERVICE TO RESIDENTIAL HOME

TEMPORARY SERVICE TO RESIDENTIAL HOME

6" TEMPORARY WATER BYPASS PIPE (TYP.)

N

NAD 83

BEAUMONT STREET (PUBLIC)

BELMONT AVENUE (PUBLIC)

BURLINGTON STREET (PUBLIC)

BEAUMONT STREET (PUBLIC)

CONTINUED ON SHEET NO. 174

CONTINUED ON SHEET NO. 171

HSU LIANG MIN & CUI QING ZHANG
BK/PG 21058/470
Map ID: 012350280
453 BELMONT AV

NGUYEN HUNG & PHONG PHAM
BK/PG 21604/107
Map ID: 012350278
461 BELMONT AV

PADAM GAJMBER & SHOVA GAJMER & DAMBER BISWA & SUBASH LUHAGUN
BK/PG 24882/192
Map ID: 012350276
463–465 BELMONT AV

CHARLES R LYONS
BK/PG 06614/1
Map ID: 012350274
467–469 BELMONT AV

NALANI CAPITAL LLC
BK/PG 24840/148 (PARCEL 6)
Map ID: 012350272
BELMONT AV

NALANI CAPITAL LLC
BK/PG 24840/148 (PARCEL 7)
Map ID: 012350271
BELMONT AV

BELMONT BURLINGTON LLC
BK/PG 22243/6
Map ID: 012350270
(PARCEL 1)
483 BELMONT AV

BELMONT BURLINGTON LLC
BK/PG 22243/6
Map ID: 012350004
(PARCEL 2)
BURLINGTON ST

ANTONIO GIVANESE
BK/PG 20917/150
Map ID: 021500006
20 BURLINGTON ST

SALVATORE O GIRGENTI
BK/PG 24732/
Map ID: 021500007
24 BURLINGTON AV

ANTONIO L SANTANIELLO
BK/PG 08324/0158
Map ID: 021500012
25 BURLINGTON ST

ANTONY L SANTANIELLO
BK/PG 08324/0158
Map ID: 021500013
21 BURLINGTON ST

BRANDON PARRELLI
497 BELMONT AVE REALTY TRUST
BK/PG 23906/23
Map ID: 012350267
497 BELMONT AV

ISABEL LUCERO–MARTINEZ
BK/PG 24598/578
Map ID: 012350265
501 BELMONT AV

MARTHA ALVARDO
BK/PG 16373/0237
Map ID: 012350092
450 BELMONT AV

SAGE HOME BUILDERS LLC
BK/PG 22895/261
Map ID: 012350094
462 BELMONT AV

NALANI CAPITAL LLC
BK/PG 24840/148 (PARCEL 4)
Map ID: 012350095
BELMONT AV

NALANI CAPITAL LLC
BK/PG 24840/148 (PARCEL 3)
Map ID: 012350097
BELMONT AV

NALANI CAPITAL LLC
BK/PG 24840/148 (PARCEL 2)
Map ID: 012350099
BELMONT AV

NALANI CAPITAL LLC
BK/PG 24840/148 (PARCEL 1)
Map ID: 012350101
486–494 BELMONT AV

NALANI CAPITAL LLC
BK/PG 24840/148 (PARCEL 5)
Map ID: 012350103
BELMONT AV

8" MAIN
8" WATER MAIN
6" WATER MAIN

WGT
WSO

200+00
201
202
203
204
205
206
207
250+00
251

PC +88.91
PT +33.82
PC +47.43
PRC +80.66
PT +22.94
PT +79.07
PC +05.16
PT +43.85

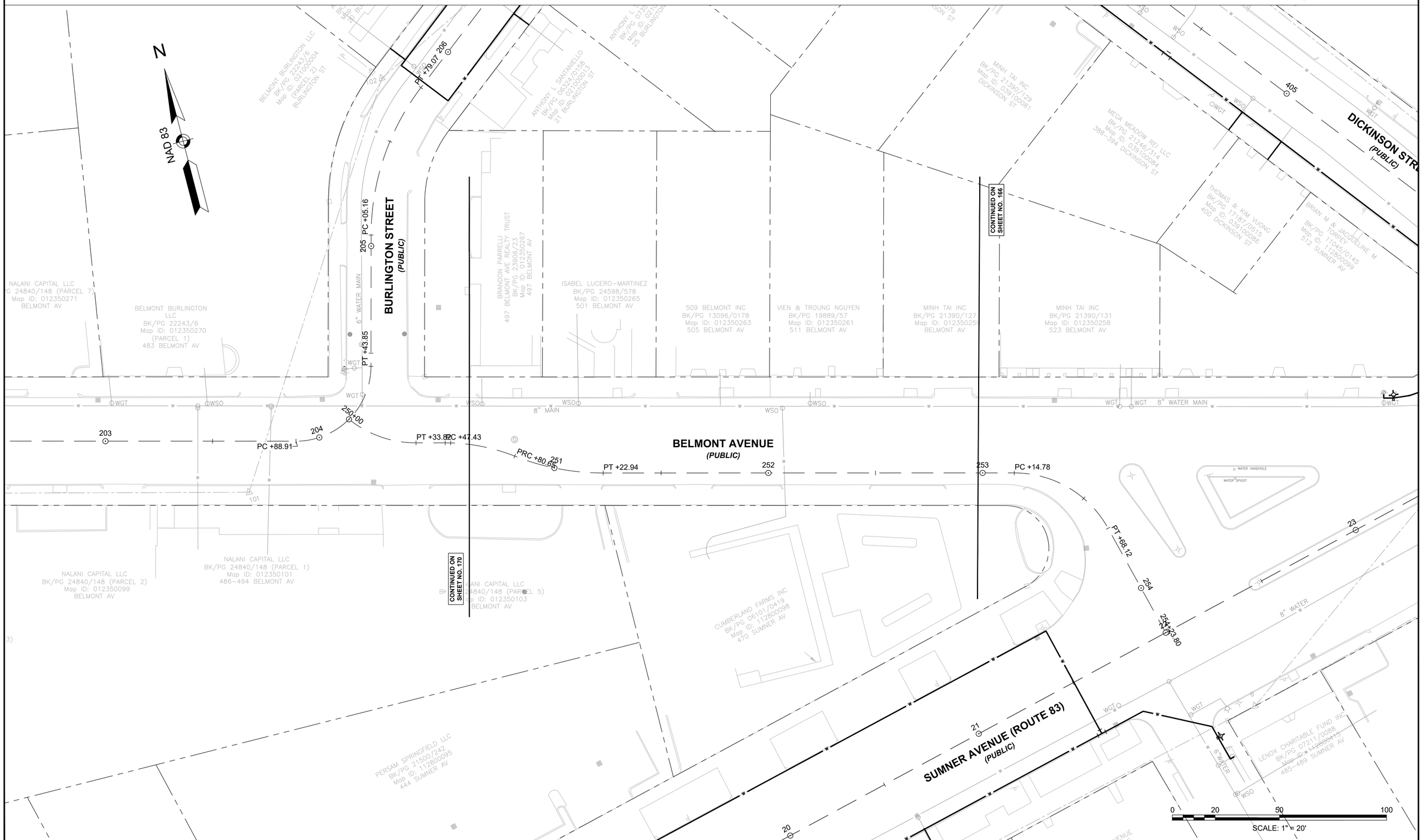
100
101

0 20 50 100
SCALE: 1" = 20'

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	173	358
PROJECT FILE NO.	608717		

TEMPORARY WATER BYPASS PLAN



20121457A70_BP02.DWG Plotted on 5-May-2023 3:20 PM

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	174	358
PROJECT FILE NO.	608717		

TEMPORARY WATER BYPASS PLAN

Plotted on 5-May-2023 3:20 PM
20121457A70_BP02.DWG

N
NAD 83

SUMNER AVENUE (PUBLIC)
BELMONT AVENUE (ROUTE 83) (PUBLIC)
DICKINSON STREET (PUBLIC)
TRENTON STREET (PUBLIC)
COMMONW... (PU...

PROVIDE TEMPORARY HYDRANT
CONNECT TO EXISTING HYDRANT #652. PROPOSED WORK ALONG BELMONT AVENUE TO BE COMPLETED PRIOR TO USING HYDRANT.
CONTRACTOR TO SET PROPOSED GATE VALVE AND LAY 18' OF PIPE AT THE INTERSECTION OF TRENTON STREET PRIOR TO PROPOSED WORK ON COMMONWEALTH AVENUE
TEMPORARY SERVICE TO MARK ROBBINS JEWELERS
6" TEMPORARY WATER BYPASS PIPE (TYP.)
TEMPORARY SERVICE TO RESIDENTIAL HOME
PROVIDE TEMPORARY HYDRANT

CONTINUED ON SHEET NO. 173
CONTINUED ON SHEET NO. 167

SPRINGFIELD INSTITUTION FOR SAVINGS BK/PG 1984/221 Map ID: 112800405 561 SUMNER AV
SPRINGFIELD INSTITUTION FOR SAVINGS BK/PG 2485/395 Map ID: 112800407 SUMNER AV
MASSACHUSETTS CVS PHARMACY LLC BK/PG 17112/99 Map ID: 112800404 SUMNER AV
RICHARD P CROWLEY & JOHN BONAVITA & CAROL SLATE TRUSTEES BK/PG 17485/0163 Map ID: 012350250 (PARCEL 1) 589 BELMONT AV
RICHARD P CROWLEY & JOHN BONAVITA & CAROL SLATE TRUSTEES BK/PG 17485/0163 Map ID: 012350254 (PARCEL 2) 585 BELMONT AV
SPRINGFIELD INSTITUTION FOR SAVINGS BK/PG 1984/225 Map ID: 012350247 BELMONT AV
AGREE EASTERN, LLC BK/PG 24099/30 Map ID: 012350246 (PARCEL 2) BELMONT AV
AGREE EASTERN, LLC BK/PG 24099/30 Map ID: 012350245 (PARCEL 3) BELMONT AV
AGREE EASTERN, LLC BK/PG 24099/30 Map ID: 012350242 (PARCEL 1) #615 BELMONT
SALMAR REALTY LLC BK/PG 20154/429 Map ID: 012350108 568 BELMONT AV (PARCEL A)
SALMAR REALTY LLC BK/PG 20154/429 Map ID: 039100453 DICKINSON ST (PARCEL B)
SALMAR REALTY LLC BK/PG 20154/429 Map ID: 039100453 DICKINSON ST (PARCEL C)
FDC LLC BK/PG 19281/479 (LOT D) Map ID: 012350107 582-586 BELMONT AV
HSU LIANG MIN & CUI QING ZHANG BK/PG 21533/72 Map ID: 012350110 600 BELMONT AV
THUY TINA NGUYEN BK/PG 14012/0454 Map ID: 012350112 615 BELMONT AV
BK/PG 24782/76 Map ID: 039250002 6-10 COMMONWEALTH AV
BINH V NGUYEN BK/PG 21901/428 Map ID: 039250003 14-16 COMMONWEALTH AV
SPRINGFIELD PARKING AUTHORITY BK/PG 1992/320 Map ID: 039100004 DICKINSON ST

0 20 50 100
SCALE: 1" = 20'

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	175	358
	PROJECT FILE NO. 608717		

TEMPORARY WATER BYPASS PLAN

Plotted on 5-May-2023 3:20 PM
20121457A70_BP02.DWG

N

NAD 83

AGREE EASTERN, LLC
BK/PG 24099/30
Map ID: 012350242
(PARCEL 1)
#615 BELMONT

AGREE EASTERN, LLC
BK/PG 24099/30
Map ID: 012350245
(PARCEL 3)
BELMONT AV

CONTINUED ON SHEET NO. 172

12" WATER MAIN

503

ORMOND STREET
(PUBLIC)

504

CONTINUED ON SHEET NO. 176

RODRIGUEZ
BK/PG 24318/298
Map ID: 037150011
21 ORMOND ST

MICHAEL & ANTONIA ZEMBERMANIS
BK/PG 1053/136
Map ID: 037150010
27 ORMOND ST

IBRAHIM MOHAMED
BK/PG 24690/426
Map ID: 037150006
30 DAYTONA ST

PEREZ MARICELI
BK/PG 13946/0164
Map ID: 037150007
34 DAYTONA ST

DLJ MORTGAGE CAPITAL INC
BK/PG 23600/237
Map ID: 037150008
42 DAYTONA ST

WOODSIDE REALTY LLC
BK/PG 10364/0423
Map ID: 012350238
645 BELMONT AV

ROBERTO A. PEREZ &
DORA A. MATUTE
BK/PG 24253/347
Map ID: 012350237
653 BELMONT AV

RAUL N MEDINA
BK/PG 22461/387
Map ID: 012350236
655 BELMONT AV

OLGA VELEZ & SAMUEL FIGUEROA
BK/PG 21996/502
Map ID: 012350235
661 BELMONT AV

WILLIAM K OCONNOR & JOANNE L LUPI
BK/PG 08723/0079
Map ID: 012350234
665 BELMONT AV

6" TEMPORARY BYPASS WATER PIPE (TYP.)

PROVIDE TEMPORARY HYDRANT

CONNECT TO PROPOSED HYDRANT #653. HYDRANT TO BE REPLACED AS PART OF WORK ON BELMONT AVENUE. CONTRACTOR TO SET NEW HYDRANT AND LAY 18' OF PIPE.

8" WATER MAIN

12" MAIN

8" MAIN

WSO

WGT

305 306 307 308 504+53.65 309 309+32.36

BELMONT AVENUE (ROUTE 83)
(PUBLIC)

TAUY TINA NGUYEN
BK/PG 14012/0454
Map ID: 012350112
616 BELMONT AV

CHRISTOPHER DMD & PAUL A JR DONOHUE
BK/PG 05880/0336
Map ID: 012350114
624 BELMONT AV

ANTONIO R SORCINELLI
BK/PG 12759/0538
Map ID: 012350115
632 BELMONT AV

DOS GORDITOS LLC
BK/PG 24389/192
Map ID: 012350116
638 BELMONT AV

DANAI S MACRIDI
BK/PG 22191/362
Map ID: 012350117
642 BELMONT AV

TRINI JACKSON ROBINSON
BK/PG 18479/428
Map ID: 012350118
648–650 BELMONT AV

CINDY TAI
BK/PG 24783/76
Map ID: 030950002
8–10 COMMONWEALTH AV

BINH NGUYEN
BK/PG 24190/428
Map ID: 030950003
14–16 COMMONWEALTH AV

CHRISTOPHER J DONOHUE
BK/PG 19430/599
Map ID: 030950159
COMMONWEALTH AV

RAJAB BASEM HASHEM
BK/PG 05475/0066
Map ID: 012350118
44 WALDEN ST

JAMES TRUMBLE
BK/PG 11435/0038
Map ID: 119250012
57 WALDEN ST

CEDAR INVESTMENT GROUP LLC
BK/PG 20263/10
Map ID: 119250013
53 WALDEN ST

COMMONWEALTH AVENUE
(PUBLIC)

TRENTON STREET
(PUBLIC)

0 20 50 100
SCALE: 1" = 20'

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	176	358
PROJECT FILE NO.	608717		

TEMPORARY WATER BYPASS PLAN

20121457A70_BP02.DWG Plotted on 5-May-2023 3:20 PM

CONNECT TO EXISTING HYDRANT #731. PROVIDE TEMPORARY HYDRANT

TEMPORARY SERVICE TO LIBERTY LAUNDROMAT

PROVIDE TEMPORARY HYDRANT AT DEAD END

TEMPORARY SERVICE TO RESIDENTIAL HOME

CONTINUED ON SHEET NO. 167

GRENADA TERRACE (PUBLIC)

DICKINSON STREET (PUBLIC)

BURLINGTON STREET (PUBLIC)

HOLY NAME CATHOLIC ASSOCIATION
BK/PG 2029/278
Map ID: 039100474
DICKINSON ST

IRENE A FONTAINE
BK/PG 07687/499
Map ID: 060600038
17 GRENADA TERRACE

FOREST ORCHARD LLC
BK/PG 24835/469
Map ID: 039100468
371 DICKINSON ST

VU SAM LAP & KIM CHAM TANG TRUSTEES
BK/PG 11118/0391
Map ID: 039100464
385 DICKINSON ST

QUAYYAD REALTY LLC
BK/PG 22697/574
Map ID: 039100461
(PARCEL 1)
DICKINSON ST

QUAYYAD REALTY LLC
BK/PG 22697/574
Map ID: 039100458
(PARCEL 3)
401 DICKINSON ST

BISWA GANGA
BK/PG 20723/335
Map ID: 039100075
350 DICKINSON ST

EURIPIDES PETER PUNI-RIOS
BK/PG 23787/249
Map ID: 039100076
358 DICKINSON ST

PHUNG M LE
BK/PG 20981/46
Map ID: 039100078
DICKINSON ST

PHUNG LE
BK/PG 19477/172
Map ID: 039100079
378-380 DICKINSON ST

MINH TAI INC
BK/PG 21390/129
Map ID: 039100081
DICKINSON ST

MEGA MEADOW REI LLC
BK/PG 21246/314
Map ID: 039100084
388-394 DICKINSON ST

THOMAS & KIM TRUONG
BK/PG 17187/0556
Map ID: 039100085
400 DICKINSON ST

BRIAN M & JACQUELINE M TORPEY
BK/PG 11045/0145
Map ID: 112800099
512 SUMNER AV

FREEDOM PROPERTY GROUP LLC
BK/PG 20116/578
Map ID: 039100077
368 DICKINSON ST

ANTHONY L SANTANIELLO
BK/PG 07357/0103
Map ID: 021000012
25 BURLINGTON ST

ANTHONY L SANTANIELLO
BK/PG 06324/0158
Map ID: 021000013
21 BURLINGTON ST

SALVATORE O CIRCOSTA
BK/PG 20228/327
Map ID: 021000007
24 BURLINGTON AV

ANTONIO CALVANESE
BK/PG 20990/150
Map ID: 021000006
20 BURLINGTON ST

MINH TAI INC
BK/PG 21390/131
Map ID: 012350258
523 BELMONT AV

MINH TAI INC
BK/PG 21390/127
Map ID: 012350259
BELMONT AV

VIEN & TROUNG NGUYEN
BK/PG 19889/57
Map ID: 012350261
511 BELMONT AV

509 BELMONT INC
BK/PG 13096/0178
Map ID: 012350265
505 BELMONT AV

MARTINEZ

TEMPORARY SERVICE TO RESIDENTIAL HOME

TEMPORARY SERVICE TO DEXOM WIRELESS

TEMPORARY SERVICE TO PHO SAIGON RESTAURANT

TEMPORARY SERVICE TO PHENOMENAL LOOK HAIR SALON

CONTRACTOR TO CONNECT TO EXISTING 6" MAIN ON DICKINSON STREET PRIOR TO BYPASS OPERATIONS. SET GATE VALVE AND LAY 18' OF DUCTILE PIPE.

PROVIDE TEMPORARY HYDRANT ON DEAD END TEMPORARY BYPASS

TEMPORARY SERVICE TO RESIDENTIAL HOME

TEMPORARY SERVICE TO RESIDENTIAL HOME

6" TEMPORARY WATER BYPASS PIPE (TYP.)

CONTINUED ON SHEET NO. 170

PC +80.47 401 PT +46.60 402 208+20.94 403 404 405 406 PC +10.40 PT +52.28

208 207 206 PT +79.07

PC +14.78 253 PT +68.12 254 254+23.80

20" WATER MAIN
20" MAIN
6" MAIN
6" WATER MAIN
8" WATER MAIN
8" WATER
24" WATER

WGT WSO GWSO

0 20 50 100
SCALE: 1" = 20'

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	177	358
	PROJECT FILE NO. 608717		

TEMPORARY WATER BYPASS PLAN

20121457A70_BP02.DWG Plotted on 5-May-2023 3:20 PM

BELMONT AVENUE (ROUTE 83) (PUBLIC)
DICKINSON STREET (PUBLIC)
TRENTON STREET (PUBLIC)
NAD 83
PC +73.91
PT +34.10
6" WATER MAIN
24" WATER MAIN
8" MAIN
24" MAIN
6" MAIN
12" MAIN
36" MAIN
WGT
WSO
TEMPORARY SERVICE TO DUNKIN DONUTS. CONFIRM SERVICES TO BUILDING PRIOR TO CONSTRUCTION
TEMPORARY SERVICE TO DUNKIN DONUTS
TEMPORARY SERVICE TO RESIDENTIAL HOME
TEMPORARY SERVICE TO PIZZA WORKS
TEMPORARY SERVICE TO RESIDENTIAL HOME
4" TEMPORARY WATER BYPASS PIPE (TYP.)
CONNECT TEMPORARY BYPASS TO HYDRANT #1758. PROPOSED WORK ON TRENTON STREET TO BE COMPLETED PRIOR TO TEMPORARY BYPASS OF DICKINSON STREET
TEMPORARY SERVICE TO RESIDENTIAL HOME
TEMPORARY SERVICE TO RESIDENTIAL HOME
TEMPORARY SERVICE TO APARTMENT BUILDING
TEMPORARY SERVICE TO RESIDENTIAL HOME
TEMPORARY SERVICE TO RESIDENTIAL HOME
PROVIDE TEMPORARY HYDRANT
TEMPORARY SERVICE TO WALGREENS. CONTRACTOR TO CONFIRM SERVICES TO WALGREENS PRIOR TO CONSTRUCTION
DIG DOWN CONNECTION TO EXISTING 6" MAIN TO FEED BUILDING SERVICES EAST OF DICKINSON STREET
CONTINUED ON SHEET NO. 167
CONTINUED ON SHEET NO. 178
SALMAR REALTY LLC BK/PG 20154/429 Map ID: 039100453 DICKINSON ST (PARCEL B)
SALMAR REALTY LLC BK/PG 20154/429 Map ID: 039100453 DICKINSON ST (PARCEL C)
SALMAR REALTY LLC BK/PG 20154/429 Map ID: 012350108 568 BELMONT AV (PARCEL A)
FDC LLC BK/PG 19281/479 (LOT D) Map ID: 012350107 582-586 BELMONT AV
FDC LLC BK/PG 19281/479 (LOT D) Map ID: 116400004 TRENTON ST
JAVIER E. GOZALEZ BK/PG 19628/535 Map ID: 116400009 9-11 TRENTON ST
CANDICE HAYNES BK/PG 24004/533 Map ID: 039100442 483 DICKINSON ST
KARAASLAN REALTY LLC BK/PG 20237/557 Map ID: 039100444 (PARCEL 3) DICKINSON ST
KARAASLAN REALTY LLC BK/PG 20237/557 Map ID: 039100447 (PARCEL 1 & 2) 459 DICKINSON ST
WILFREDO LOPEZ JR BK/PG 11521/0103 Map ID: 039100443 471-473 DICKINSON ST
SPRINGFIELD PARKING AUTHORITY BK/PG 7792/520 Map ID: 039100084 DICKINSON ST
DICKINSON STREET MANAGEMENT LLC BK/PG 13826/0248 Map ID: 039100098 (PARCEL 2) 452 DICKINSON ST
DICKINSON STREEET MANAGEMENT LLC BK/PG 13826/0248 Map ID: 039100100 (PARCEL 3) 458 DICKINSON ST
DICKINSON STREET MANAGEMENT LLC BK/PG 13826/0248 Map ID: 039100096 (PARCEL1) 448 DICKINSON ST
PARKWOOD APARTMENTS LLC BK/PG 22022/168 Map ID: 039100104 464 DICKINSON ST
FRANK & MARIA RASCHILLA BK/PG 21431/331 Map ID: 039100024 95 CLIFTWOOD ST
SPRINGFIELD HOUSING AUTHORITY BK/PG 2894/147 Map ID: 039100303 DICKINSON ST
408 409 410 411 412 413 414 706 707 707+59.07
0 20 50 100
SCALE: 1" = 20'

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXX(XXX)X	178	358
PROJECT FILE NO.	608717		

TEMPORARY WATER BYPASS PLAN

20121457A70_BP02.DWG Plotted on 5-May-2023 3:20 PM

N

NAD 83

TEMPORARY SERVICE TO RESIDENTIAL HOME

TEMPORARY SERVICE TO RESIDENTIAL HOME

TEMPORARY SERVICE TO RESIDENTIAL HOME

6" TEMPORARY WATER BYPASS PIPE (TYP.)

TEMPORARY SERVICE TO RESIDENTIAL HOME

PROVIDE TEMPORARY HYDRANT AT DEAD END

TEMPORARY SERVICE TO CVS

DIG DOWN CONNECTION TO 6" FIRE SERVICE AT CVS PHARMACY

CONTINUED ON SHEET NO. 169

CONTINUED ON SHEET NO. 173

SUMNER AVENUE *(PUBLIC)*

ORMOND STREET *(PUBLIC)*

ORMOND STREET *(PUBLIC)*

A STREET *(PUBLIC)*

STREET

NT AVENUE (ROUTE 83) *(PUBLIC)*

ANTHONY NA BK/PG 22 Map ID: 6 618 SUM

DENNIS C. & BARBARA A BURROUGHS BK/PG 23899/335 Map ID: 112800396 615 SUMNER AV

WILLIAM E JR & LYN CUNNINGHAM TRUSTEES BK/PG 20755/551 Map ID: 112800397 609 SUMNER AV

JAMES HENG BK/PG 24453/393 Map ID: 112800398 603 SUMNER AV

DANIEL J GIBSON BK/PG 17415/0240 Map ID: 093700012 17 ORMOND ST

JAMES W FIORE BK/PG 19415/160 Map ID: 093700013 11 ORMOND ST

ADRIAN A RODRIGUEZ BK/PG 18718/238 Map ID: 093700011 21 ORMOND ST

MICHAEL & ANTONIA ZEIMBEKAKIS BK/PG 103/136 Map ID: 093700010 27 ORMOND ST

IBRAHIM MOHAMED BK/PG 24690/426 Map ID: 037150006 30 DAYTONA ST

PEREZ, MA BK/PG 13915 Map ID: 031 32 DAYTONA

OLGA M FIG BK/PG 2 Map ID: 2 881 BELMO

RAUL N MEDINA BK/PG 22461/387 Map ID: 012350236 855 BELMONT AV

ROBERTO A. PEREZ & DORA A. MITUTE BK/PG 24353/347 Map ID: 012350237 633 BELMONT AV

WOODSIDE REALTY, LLC BK/PG 10364/0433 Map ID: 012350238 645 BELMONT AV

ISLAND REALTY, INC BK/PG: 07 Map ID: SUM

AGREE EASTERN, LLC BK/PG 24099/30 Map ID: 012350242 (PARCEL 1) #615 BELMONT

AGREE EASTERN, LLC BK/PG 24099/30 Map ID: 012350242 (PARCEL 1) #615 BELMONT

TRINI JACKSON ROBINSON BK/PG 18479/228 Map ID: 012350 648-650 BELMO

DANIAL S. MACRIDI BK/PG 22191/362 Map ID: 012350117 642 BELMONT AV

DOS GORDITOS LLC BK/PG 24389/192 Map ID: 012350116 638 BELMONT AV

ANTONIO R. SORCINELLI BK/PG 12739/0538 Map ID: 012350115 632 BELMONT AV

STOPHER DMD & PAUL A JR DONOHUE BK/PG 05880/0336 P ID: 012350114 BELMONT AV

CHRISTOPHER J DOW BK/PG 19430/2

8" MAIN

12" MAIN

16" MAIN

6" MAIN

16" WATER MAIN

24" MAIN

8" MAIN

8" WATER MAIN

12" WATER MAIN

500+00 501 502 503 504 504+53.65

309+32.36 309 308 307 33 32 31 34

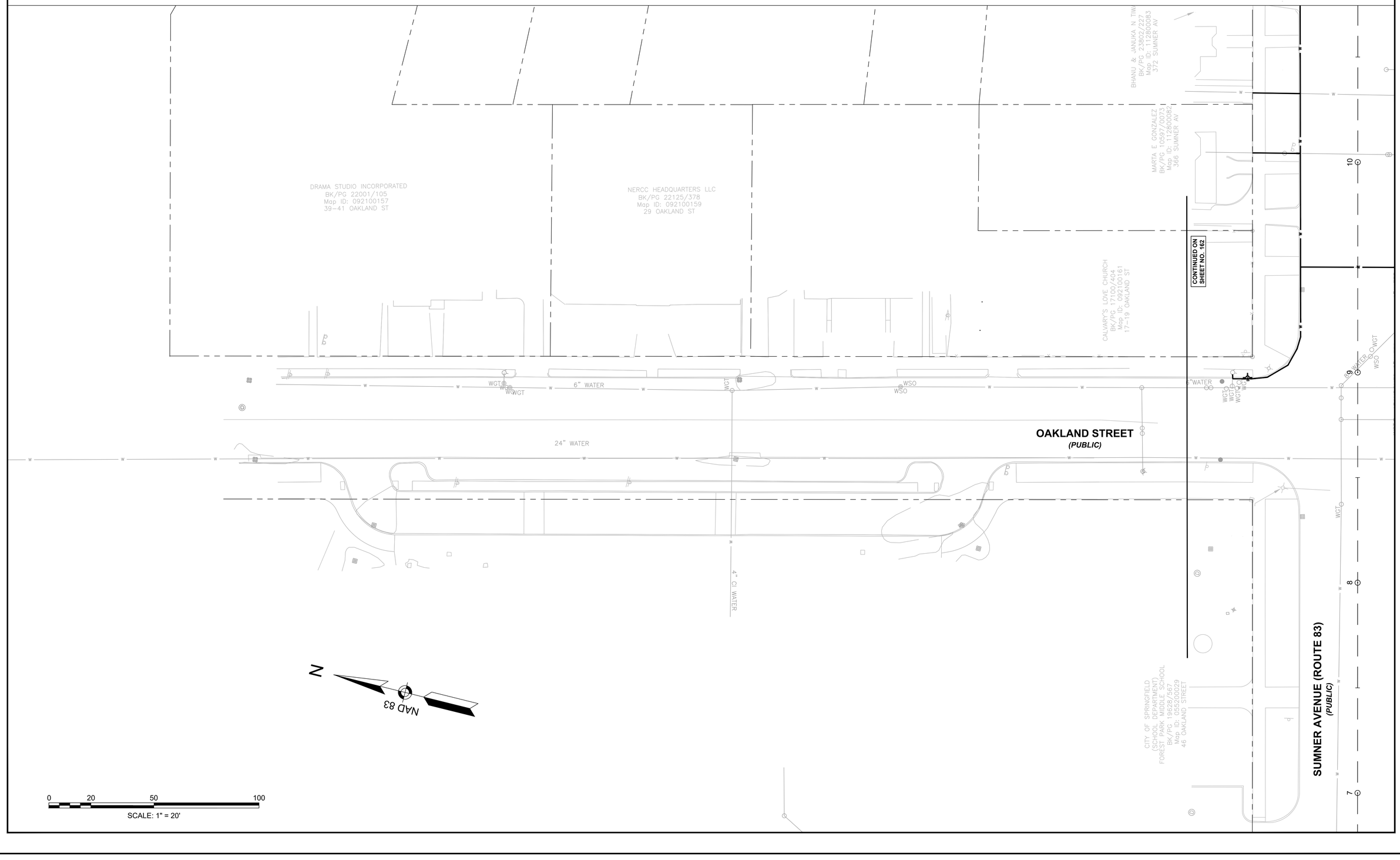
0 20 50 100

SCALE: 1" = 20'

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXX(XXX)X	179	358
PROJECT FILE NO.	608717		

TEMPORARY WATER BYPASS PLAN



20121457A70_BP02.DWG Plotted on 5-May-2023 3:20 PM

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	180	358
PROJECT FILE NO.	608717		

TEMPORARY WATER BYPASS PLAN

N

NAD 83

LENOX STREET
(PUBLIC)

CLIFTWOOD STREET
(PUBLIC)

SUMNER AVENUE
473-477 LLC
BK/PG 22758/383
Map ID: 076800005
LENOX ST

LUIS M TORRES
BK/PG 20151/332
Map ID: 076800011
35 LENOX ST

LUIS M TORRES
BK/PG 20151/332
Map ID: 076800010
LENOX ST

WALGREEN EASTERN CO INC
BK/PG 09583/0419
Map ID: 028900028
CLIFTWOOD ST

SPRING FORTH PROPERTIES LLC
BK/PG 24940/60 Map ID: 028900026
89 CLIFTWOOD ST

FRANK & MARIA RASCHILLA
BK/PG 21431/531
Map ID: 028900024
95 CLIFTWOOD ST

DICKINSON STREET MANAGEMENT LLC
BK/PG 13826/0248
Map ID: 039100096
(PARCEL 1)
448 DICKINSON ST

DICKINSON STREET MANAGEMENT LLC
BK/PG 13826/0248
Map ID: 039100098
(PARCEL 2)
452 DICKINSON ST

DICKINSON STREET MANAGEMENT LLC
BK/PG 13826/0248
Map ID: 039100000
(PARCEL 3)
458 DICKINSON ST

PARKWOOD APARTMENTS LLC
BK/PG 22027/188
Map ID: 039100104
464 DICKINSON ST

KARAGLAN REALTY LLC
BK/PG 20237/557
Map ID: 039100447
(PARCEL 1 & 2)
459 DICKINSON ST

KARAGLAN REALTY LLC
BK/PG 20237/557
Map ID: 039100444
(PARCEL 3)
DICKINSON ST

SPRINGFIELD HOUSING AUTHORITY
BK/PG 2894/147
Map ID: 039100303
DICKINSON ST

SPRINGFIELD HOUSING AUTHORITY
BK/PG 2894/147
Map ID: 039100303
DICKINSON ST

702 CLIFTWOOD STREET (PUBLIC)
703 PC +99.36
PT +33.15
PC +65.65
704 PT +99.25
705
706
707
707+59.07

411
412
413
414

6" MAIN
24" MAIN
36" MAIN
12" MAIN
8" MAIN

WGT
WSO
OWGT

CONTINUED ON SHEET NO. 176

0 20 50 100
SCALE: 1" = 20'

20121457A70_BP02.DWG Plotted on 5-May-2023 3:20 PM

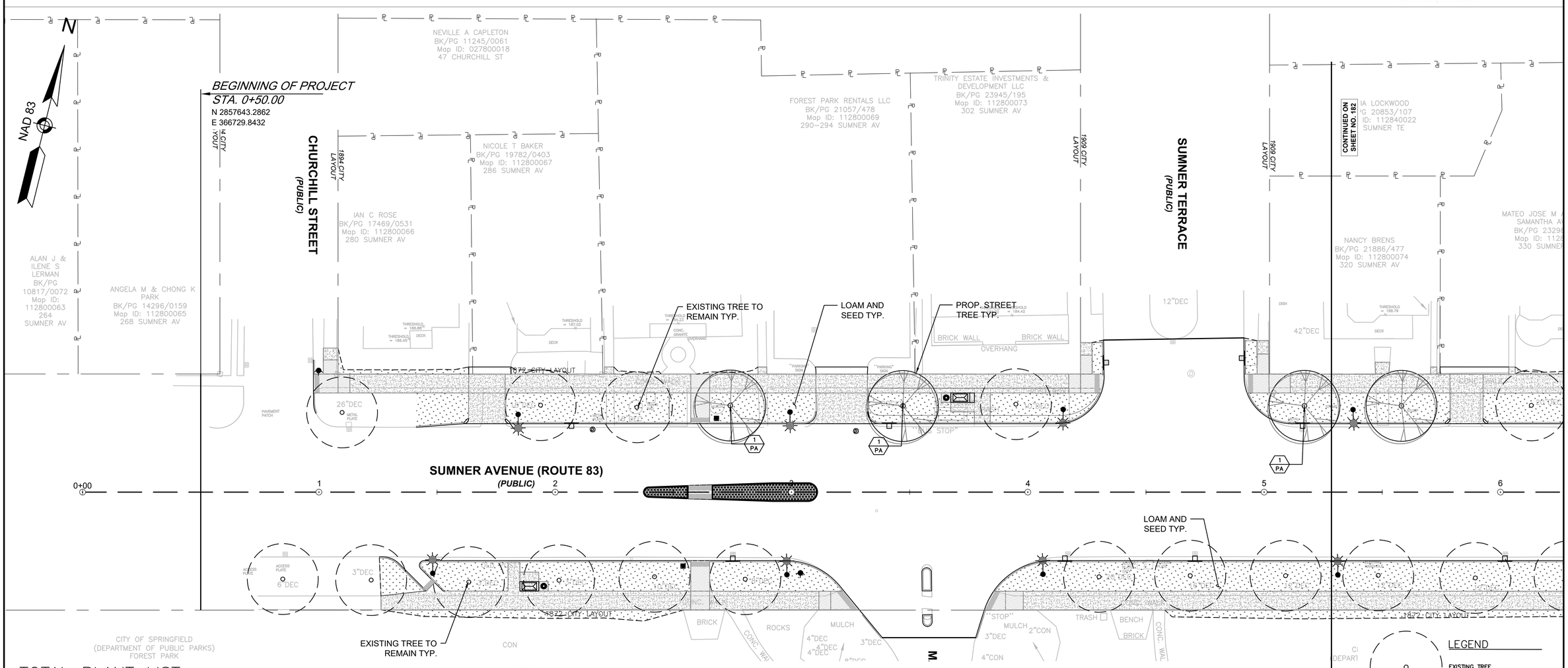
File Path: j:\DWG\P2012\1457\A70\Civil\Plan\20121457A70_BP02.dwg Layout: BP 18 Plotted: Fri, May 05, 2023 - 3:20 PM User: espringer
Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: MAOOT-U-NJL.STB
MS VIEW: - LAYER STATE: -

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXX(XXX)X	181	358
	PROJECT FILE NO. 608717		

PLANTING PLANS

Plotted on 5-May-2023 3:33 PM
20121457A70_LSP01.DWG



TOTAL PLANT LIST

KEY	BOTANICAL NAME	COMMON NAME	HT.	QTY.	SIZE
	TREES				
AC	ABIES CONCOLOR	WHITE FIR	100	1	10' HT.
AR	ACER RUBRUM 'OCTOBER GLORY'	OCTOBER GLORY RED MAPLE	100	6	2.5"–3" CAL.
AG	AMELANCHIER X GRANDIFLORA 'AUTUMN BRILLIANCE'	AUTUMN BRILLIANCE SERVICEBERRY	20	20	2"–2.5" CAL. (SINGLE STEM)
CC	CARPINUS CAROLINIANA	AMERICAN HORNBEAM	35	4	2"–2.5" CAL.
GB	GINKGO BILOBA 'PRINCETON SENTRY'	PRINCETON SENTRY GINKGO	50	15	2.5"–3" CAL.
GT	GLEDITSIA TRICANTHOS 'SHADEMASTER'	SHADEMASTER HONEYLOCUST	80	1	2.5"–3" CAL.
LT	LIRIODENDRON TULIPFERA	TULIPTREE	80	7	2.5"–3" CAL.
NS	NYSSA SYLVATICA	BLACK TUPELO TREE	60	8	2.5"–3" CAL.
PA	PLANTANUS X ACERIFOLIA	LONDON PLANETREE	80	6	2.5"–3" CAL.
PS	PRUNUS SARGENTII 'COLUMNARIS'	COLUMNAR FLOWERING CHERRY	35	20	2"–2.5" CAL.
TC	TILIA CORDATA	LITTLE LEAF LINDEN	80	8	2.5"–3" CAL.
UH	ULMUS X HOMESTEAD	HOMESTEAD ELM	50	8	2.5"–3" CAL.
UAP	ULMUS AMERICANA 'PRINCETON'	PRINCETON ELM	60	7	2.5"–3" CAL.
UD	ULMUS DAVIDIANA VAR. JAPONICA 'PROSPECTOR'	PROSPECTOR ELM	40	2	2.5"–3" CAL.
ZS	ZELKOVA SERRATA	JAPANESE ZELKOVA	60	5	2.5"–3" CAL.
	SHRUBS				
BM	BUXUS MICROPHYLLA VAR. JAPONICA 'GREEN GEM'	GREEN GEM BOXWOOD	3	6	3 GAL.
CS	CORNUS SERICEA 'FARROW ARCTIC FIRE'	ARCTIC FIRE RED TWIG DOGWOOD	8	2	3 GAL.
JS	JUNIPERUS SQUAMATA 'BLUE STAR'	BLUE STAR JUNIPER	3	98	3 GAL.
RO	ROSA 'OSO EASY' MANGO SALSA	MANGO SALSA LANDSCAPE ROSE	2	37	2 GAL.
TM	TAXUS X MEDIA DENSIFORMIS	DENSE SPREADING YEW	15	5	3 GAL.
	ORNAMENTAL GRASSES/PERENNIALS				
CA	CALAMAGROSTIS ACUTIFLORA 'KARL FOERSTER'	KARL FOERSTER FEATHER REED GRASS	4	111	1 GAL.
CT	CAREX STRICTA	TUSSOCK SEDGE	2	96	1 GAL.
EP	ECHINACEA PURPUREA 'POW WOW WILD BERRY'	POW WOW WILD BERRY ECHINACEA	2	36	1 GAL.
HH	HEMEROCALLIS 'BELA LUGOSI'	BELA LUGOSI DAYLILY	2	89	1 GAL.
HH2	HEMEROCALLIS 'STELLA D' ORO'	STELLA D' ORO DAYLILY	2	85	1 GAL.
PA2	PENNISETUM ALOPECUROIDES 'HAMELN'	DWARF FOUNTAIN GRASS	2	399	1 GAL.
RF	RUDBECKIA FULGIDA 'GOLDSTURM'	BLACK-EYED SUSAN	2	38	1 GAL.
SS	SALVIA X SYLVESTRIS 'MAINACHT'	MAY NIGHT SALVIA	3	156	1 GAL.
SA	SEDUM 'AUTUMN JOY'	AUTUMN JOY SEDUM	2	113	1 GAL.

0 20 50 100

SCALE: 1" = 20'

PLANT LIST

KEY	BOTANICAL NAME	COMMON NAME	HT.	QTY.	SIZE
	TREES				
PA	PLANTANUS X ACERIFOLIA	LONDON PLANETREE	80	3	2.5"–3" CAL.

LEGEND

- EXISTING TREE TO REMAIN
- SPECIMEN STREET TREE
- FLOWERING SMALL TREE
- PROPOSED SHRUBS/ORNAMENTAL GRASSES
- LOAM AND SEED
- PLANT QUANTITY AND SPECIES

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	182	358
	PROJECT FILE NO. 608717		

PLANTING PLANS

Plotted on 5-May-2023 3:33 PM
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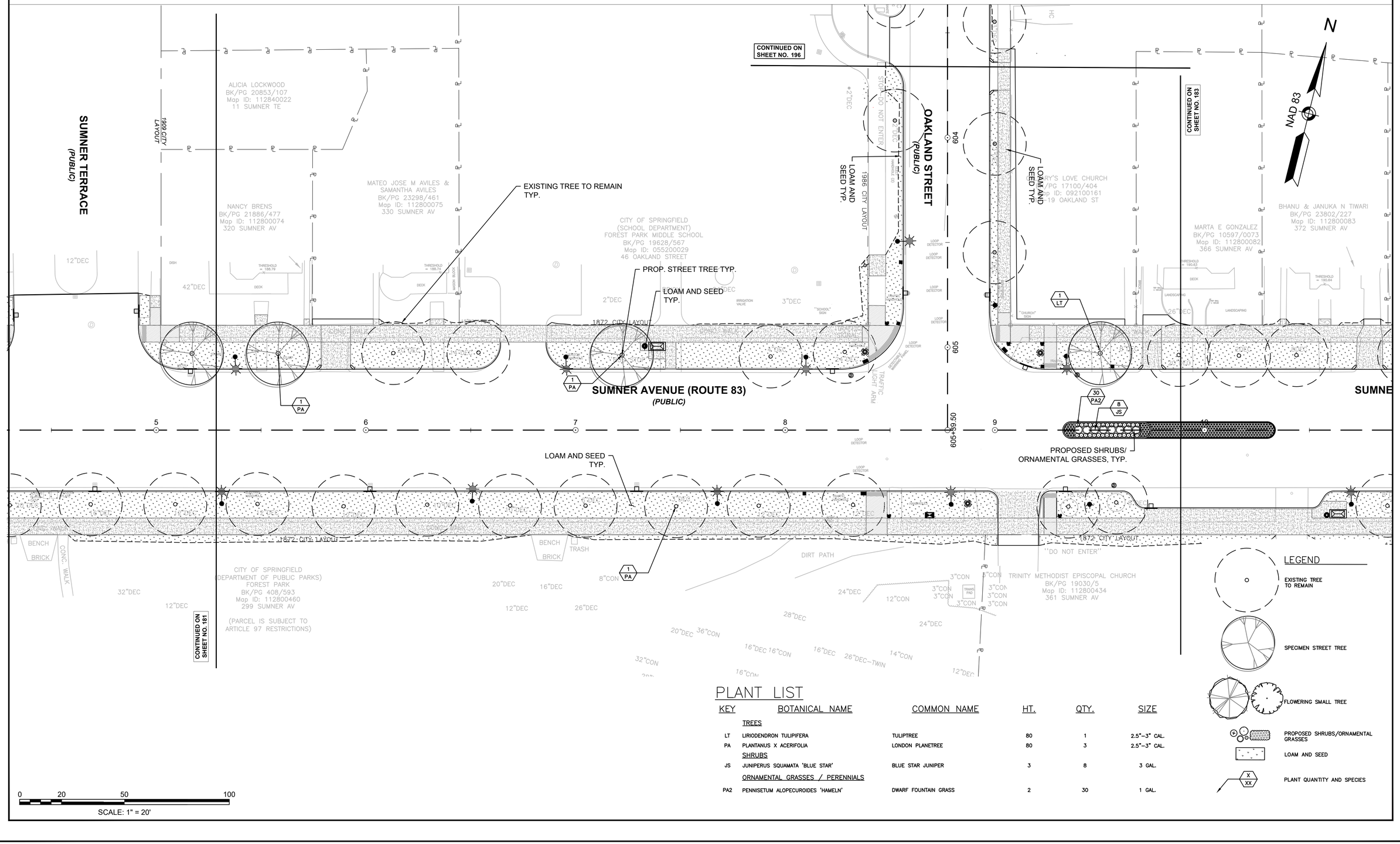


PLANT LIST

KEY	BOTANICAL NAME	COMMON NAME	HT.	QTY.	SIZE
	TREES				
LT	LIRIODENDRON TULIPIFERA	TULIPTREE	80	1	2.5"–3" CAL.
PA	PLANTANUS X ACERIFOLIA	LONDON PLANETREE	80	3	2.5"–3" CAL.
	SHRUBS				
JS	JUNIPERUS SQUAMATA 'BLUE STAR'	BLUE STAR JUNIPER	3	8	3 GAL.
	ORNAMENTAL GRASSES / PERENNIALS				
PA2	PENNISETUM ALOPECUROIDES 'HAMELN'	DWARF FOUNTAIN GRASS	2	30	1 GAL.

LEGEND

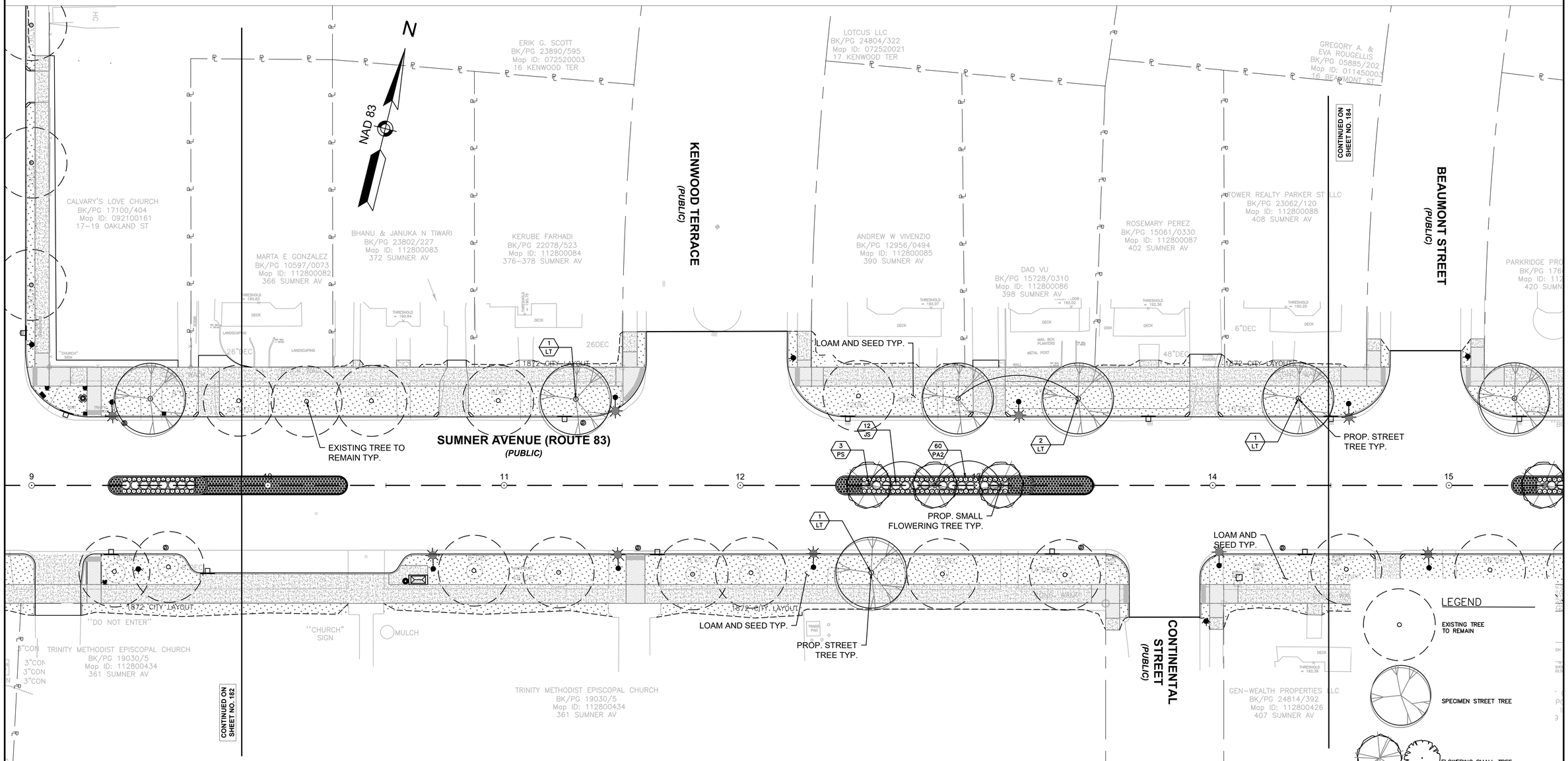
- EXISTING TREE TO REMAIN
- SPECIMEN STREET TREE
- FLOWERING SMALL TREE
- PROPOSED SHRUBS/ORNAMENTAL GRASSES
- LOAM AND SEED
- PLANT QUANTITY AND SPECIES

0 20 50 100
SCALE: 1" = 20'

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	183	358
PROJECT FILE NO.	608717		

PLANTING PLANS



PLANT LIST

KEY	BOTANICAL NAME	COMMON NAME	HT	QTY.	SIZE
	TREES				
LT	LIRIODENDRON TULIPIFERA	TULIPTREE	80	5	2.5"-3" CAL.
PS	PRUNUS SARGENTII 'COLUMNARIS'	COLUMNAR FLOWERING CHERRY	30	3	2"-2.5" CAL.
	SHRUBS				
JS	JUNIPERUS SQUAMATA 'BLUE STAR'	BLUE STAR JUNIPER	3	12	3 GAL.
	ORNAMENTAL GRASSES / PERENNIALS				
PA2	PENNISETUM ALOPECUROIDES 'HAMELN'	DWARF FOUNTAIN GRASS	2	60	1 GAL.

20121457A70_LSP01.DWG Plotted on 5-May-2023 3:33 PM

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	184	358
	PROJECT FILE NO. 608717		

PLANTING PLANS

Plotted on 5-May-2023 3:34 PM
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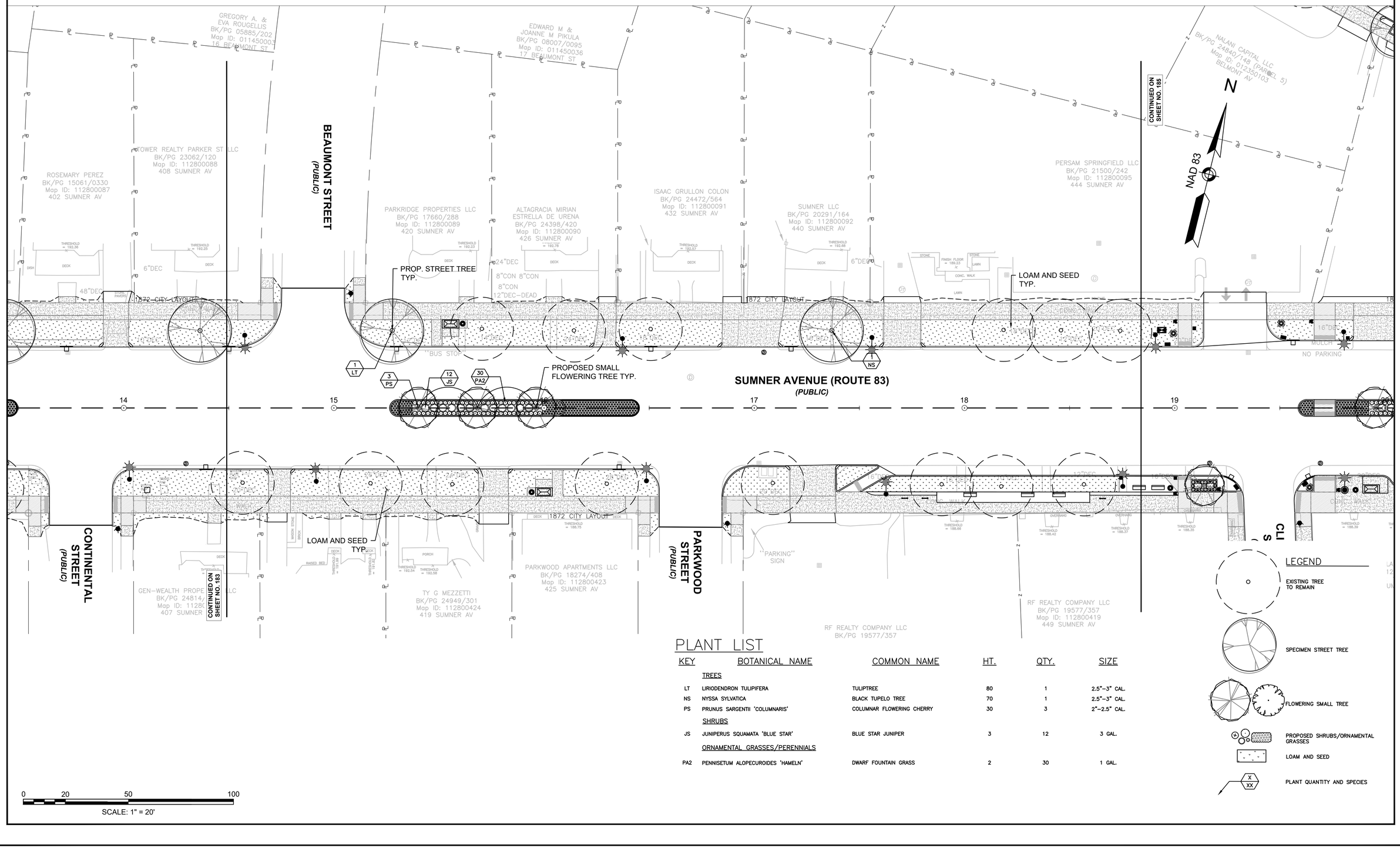

PLANT LIST

KEY	BOTANICAL NAME	COMMON NAME	HT.	QTY.	SIZE
	TREES				
LT	LIRIODENDRON TULIPIFERA	TULIPTREE	80	1	2.5"–3" CAL.
NS	NYSSA SYLVATICA	BLACK TUPELO TREE	70	1	2.5"–3" CAL.
PS	PRUNUS SARGENTII 'COLUMNARIS'	COLUMNAR FLOWERING CHERRY	30	3	2"–2.5" CAL.
	SHRUBS				
JS	JUNIPERUS SQUAMATA 'BLUE STAR'	BLUE STAR JUNIPER	3	12	3 GAL.
	ORNAMENTAL GRASSES/PERENNIALS				
PA2	PENNISETUM ALOPECUROIDES 'HAMELN'	DWARF FOUNTAIN GRASS	2	30	1 GAL.

LEGEND

- EXISTING TREE TO REMAIN
- SPECIMEN STREET TREE
- FLOWERING SMALL TREE
- PROPOSED SHRUBS/ORNAMENTAL GRASSES
- LOAM AND SEED
- PLANT QUANTITY AND SPECIES (X / XX)

0 20 50 100
SCALE: 1" = 20'

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	185	358
PROJECT FILE NO.	608717		

PLANTING PLANS

Plotted on 5-May-2023 3:34 PM
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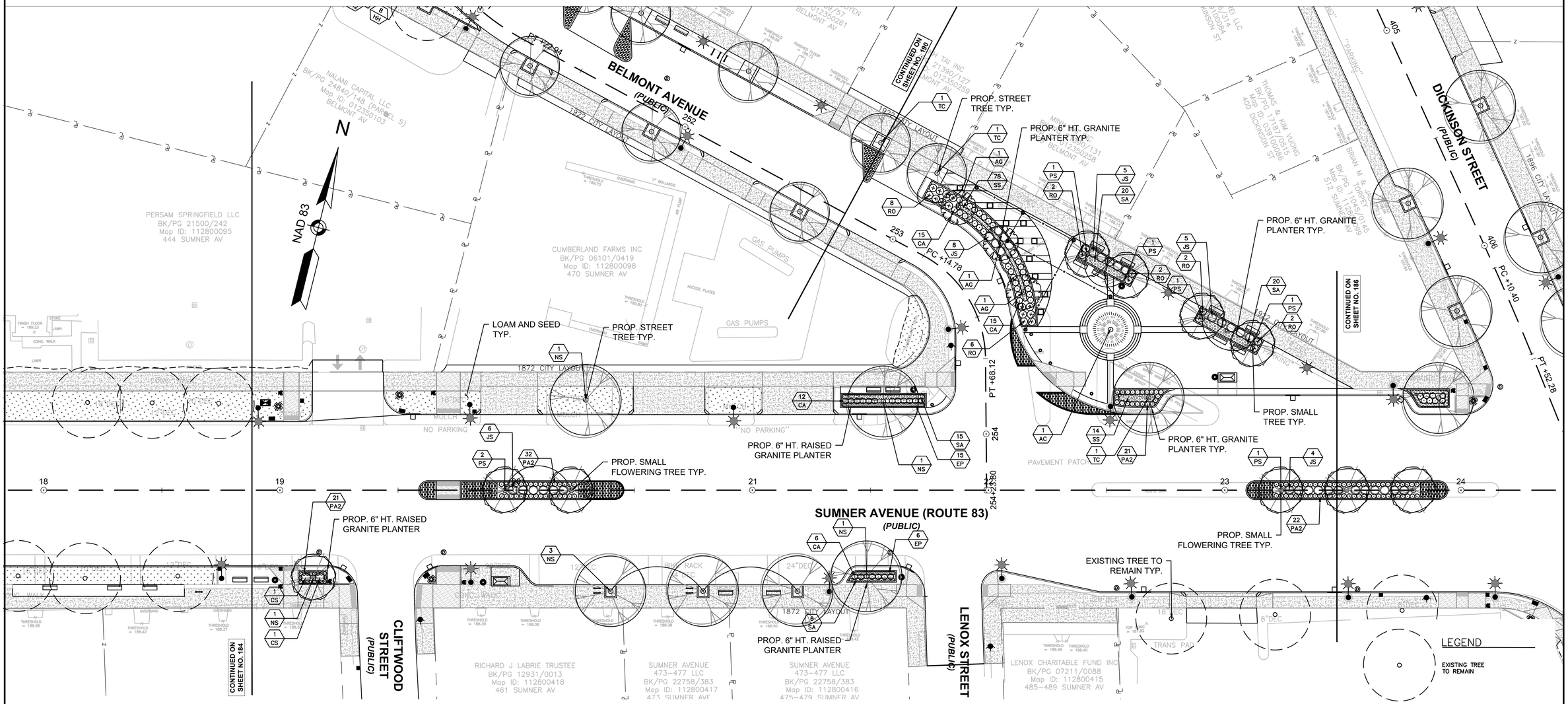

PLANT LIST

KEY	BOTANICAL NAME	COMMON NAME	HT.	QTY.	SIZE
	TREES				
AC	ABIES CONCOLOR	WHITE FIR	100	1	10' HT.
AG	AMELANCHIER X GRANDIFLORA 'AUTUMN BRILLIANCE'	AUTUMN BRILLIANCE SERVICEBERRY	20	3	2"-2.5" CAL. (SINGLE STEM)
NS	NYSSA SYLVATICA	BLACK TUPELO TREE	60	7	2.5"-3" CAL.
PS	PRUNUS SARGENTII 'COLUMNARIS'	COLUMNAR FLOWERING CHERRY	20	7	2"-2.5" CAL.
TC	TILIA CORDATA	LITTLE LEAF LINDEN	80	3	2.5"-3" CAL.
	SHRUBS				
CS	CORNUS SERICEA 'FARROW-ARCTIC FIRE'	ARCTIC FIRE RED TWIG DOGWOOD	8	2	3 GAL.
JS	JUNIPERUS SQUAMATA 'BLUE STAR'	BLUE STAR JUNIPER	3	28	3 GAL.
RO	ROSA 'OSO EASY' MANGO SALSA	MANGO SALSA LANDSCAPE ROSE	3	22	2 GAL.
	ORNAMENTAL GRASSES/PERENNIALS				
CA	CALAMAGROSTIS ACUTIFLORA 'KARL FOERSTER'	KARL FOERSTER FEATHER REED GRASS	4	48	1 GAL.
EP	ECHINACEA PURPUREA 'POW WOW WILD BERRY'	POW WOW WILD BERRY ECHINACEA	3	21	1 GAL.
PA2	PENNISETUM ALOPECUROIDES 'HAMELN'	DWARF FOUNTAIN GRASS	3	96	1 GAL.
SA	SEDUM 'AUTUMN JOY'	AUTUMN JOY SEDUM	2	61	1 GAL.
SS	SALVIA X SYLVESTRIS 'MAINACHT'	MAY NIGHT SALVIA	2	92	1 GAL.

0 20 50 100
SCALE: 1" = 20'

LEGEND

- EXISTING TREE TO REMAIN
- SPECIMEN STREET TREE
- FLOWERING SMALL TREE
- PROPOSED SHRUBS/ORNAMENTAL GRASSES
- LOAM AND SEED
- X / XX — PLANT QUANTITY AND SPECIES

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	186	358
PROJECT FILE NO.	608717		

PLANTING PLANS

Plotted on 5-May-2023 3:34 PM
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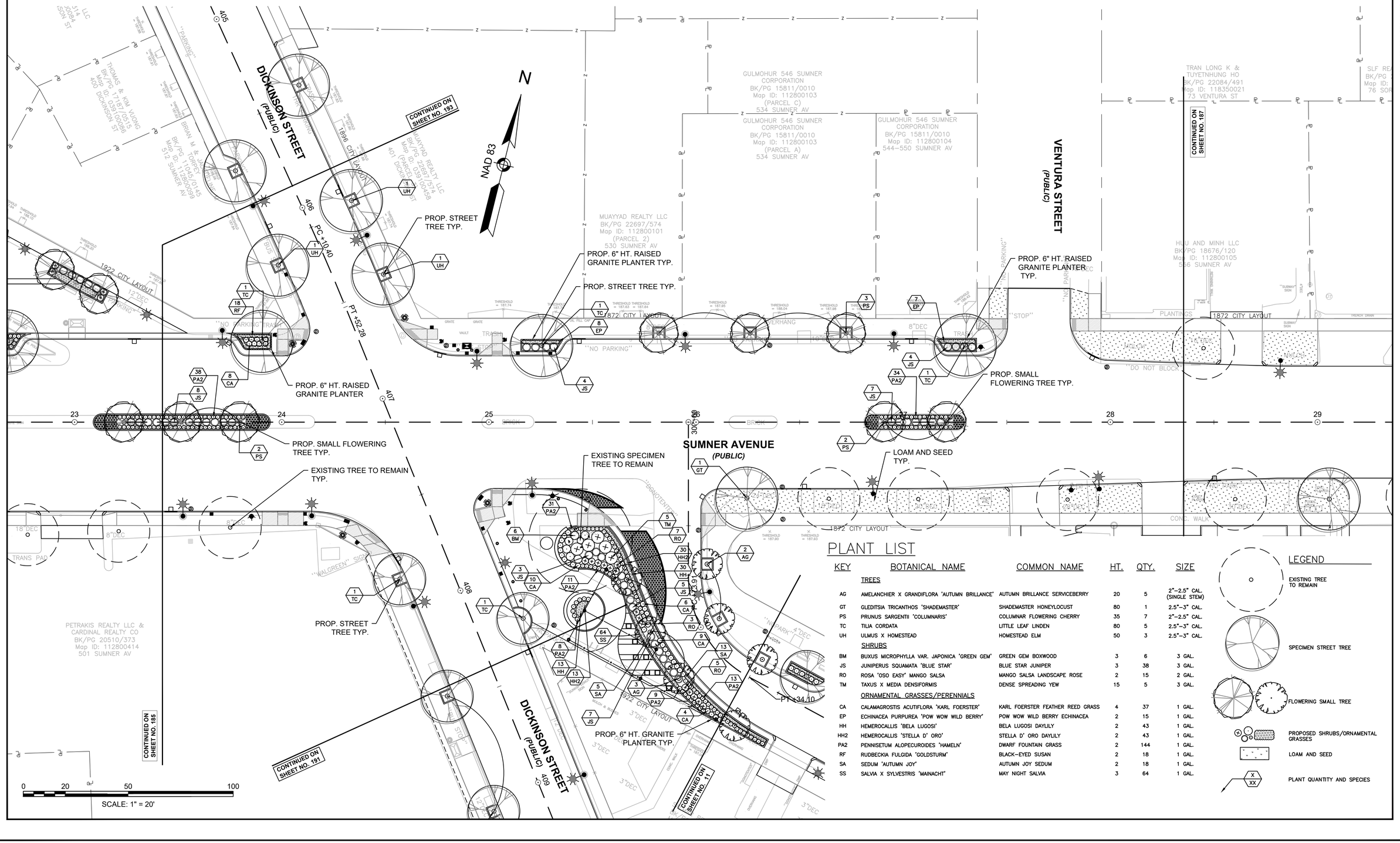


PLANT LIST

KEY	BOTANICAL NAME	COMMON NAME	HT.	QTY.	SIZE
	TREES				
AG	AMELANCHIER X GRANDIFLORA 'AUTUMN BRILLANCE'	AUTUMN BRILLANCE SERVICEBERRY	20	5	2"–2.5" CAL. (SINGLE STEM)
GT	GLEDITSIA TRICANTHOS 'SHADEMASTER'	SHADEMASTER HONEYLOCUST	80	1	2.5"–3" CAL.
PS	PRUNUS SARGENTII 'COLUMNARIS'	COLUMNAR FLOWERING CHERRY	35	7	2"–2.5" CAL.
TC	TILIA CORDATA	LITTLE LEAF LINDEN	80	5	2.5"–3" CAL.
UH	ULMUS X HOMESTEAD	HOMESTEAD ELM	50	3	2.5"–3" CAL.
	SHRUBS				
BM	BUXUS MICROPHYLLA VAR. JAPONICA 'GREEN GEM'	GREEN GEM BOXWOOD	3	6	3 GAL.
JS	JUNIPERUS SQUAMATA 'BLUE STAR'	BLUE STAR JUNIPER	3	38	3 GAL.
RO	ROSA 'OSO EASY' MANGO SALSA	MANGO SALSA LANDSCAPE ROSE	2	15	2 GAL.
TM	TAXUS X MEDIA DENSIFORMIS	DENSE SPREADING YEW	15	5	3 GAL.
	ORNAMENTAL GRASSES/PERENNIALS				
CA	CALAMAGROSTIS ACUTIFLORA 'KARL FOERSTER'	KARL FOERSTER FEATHER REED GRASS	4	37	1 GAL.
EP	ECHINACEA PURPUREA 'POW WOW WILD BERRY'	POW WOW WILD BERRY ECHINACEA	2	15	1 GAL.
HH	HEMEROCALLIS 'BELA LUGOSI'	BELA LUGOSI DAYLILY	2	43	1 GAL.
HH2	HEMEROCALLIS 'STELLA D' ORO'	STELLA D' ORO DAYLILY	2	43	1 GAL.
PA2	PENNISETUM ALOPECUROIDES 'HAMELN'	DWARF FOUNTAIN GRASS	2	144	1 GAL.
RF	RUDBECKIA FULGIDA 'GOLDSTURM'	BLACK–EYED SUSAN	2	18	1 GAL.
SA	SEDUM 'AUTUMN JOY'	AUTUMN JOY SEDUM	2	18	1 GAL.
SS	SALVIA X SYLVESTRIS 'MAINACHT'	MAY NIGHT SALVIA	3	64	1 GAL.

LEGEND

- EXISTING TREE TO REMAIN
- SPECIMEN STREET TREE
- FLOWERING SMALL TREE
- PROPOSED SHRUBS/ORNAMENTAL GRASSES
- LOAM AND SEED
- PLANT QUANTITY AND SPECIES (X / XX)

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	187	358
PROJECT FILE NO.	608717		

PLANTING PLANS

Plotted on 5-May-2023 3:35 PM

20121457A70_LSP01.DWG

N

NAD 83

TRAN LONG K & TUYETNHUNG HO
BK/PG 22084/491
Map ID: 118350021
73 VENTURA ST

SLF REALTY CORP
BK/PG 22981/560
Map ID: 109650013
76 SORRENTO ST

SONAL PATEL LLC
BK/PG 20954/93
Map ID: 112800108
570 SUMNER AV

HUU AND MINH LLC
BK/PG 18676/120
Map ID: 112800105
556 SUMNER AV

TGN ASSOCIATES LLC
BK/PG 22503/22
Map ID: 112800111
590 SUMNER AV

K S KANTOR LLC
BK/PG 13892/0227
Map ID: 112800112
(PARCEL 1)
598–600 SUMNER AV

K S KANTOR LLC
BK/PG 13892/0227
Map ID: 112800113
(PARCEL 2)
606 SUMNER AV

VENTURA STREET
(PUBLIC)

SORRENTO STREET
(PUBLIC)

SUMNER AVENUE
(PUBLIC)

ORMOND STREET
(PUBLIC)

CONTINUED ON SHEET NO. 188

CONTINUED ON SHEET NO. 186

EXISTING TREE TO REMAIN TYP.

LOAM AND SEED TYP.

PROP. STREET TREE TYP.

1872 CITY LAYOUT

1906 CITY LAYOUT

SPRINGFIELD INSTITUTION FOR SAVINGS
BK/PG 1984/221
Map ID: 112800405
561 SUMNER AV

MASSACHUSETTS CVS PHARMACY LLC
BK/PG 17112/99
Map ID: 112800404
SUMNER AV

ISLAND REALTY INC
BK/PG 07990/0325
Map ID: 112800399
SUMNER AV

RICHARD P CROWLEY & JOHN BONAVITA & CAROL SLATE TRUSTEES
BK/PG 17485/0163
Map ID: 012350250
(PARCEL 1)
589 BELMONT AV

SPRINGFIELD INSTITUTION FOR SAVINGS
BK/PG 2485/295
Map ID: 112800407
SUMNER AV

SPRINGFIELD INSTITUTION FOR SAVINGS
BK/PG 1984/225
Map ID: 012350247
BELMONT AV

AGREE EASTERN, LLC
BK/PG 24059/30
Map ID: 012350246
(PARCEL 2)
BELMONT AV

AGREE EASTERN, LLC
BK/PG 24099/30
Map ID:
(PA
#615

28 29 30 31 32 33

0 20 50 100
SCALE: 1" = 20'

PLANT LIST

KEY	BOTANICAL NAME	COMMON NAME	HT.	QTY.	SIZE
	TREES				
AR	ACER RUBRUM 'OCTOBER GLORY'	OCTOBER GLORY RED MAPLE	100	4	2.5"–3" CAL.

LEGEND

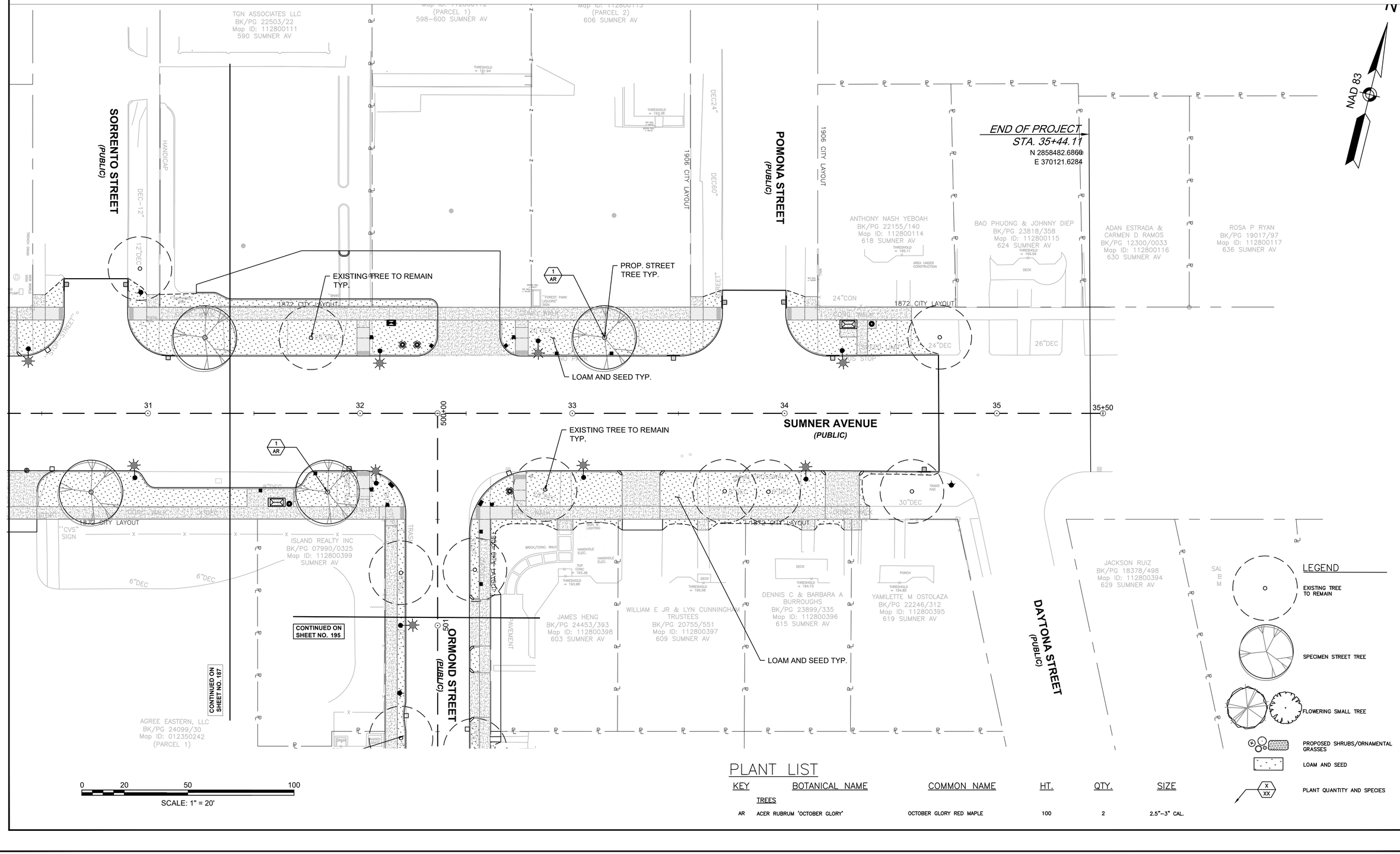
- EXISTING TREE TO REMAIN
- SPECIMEN STREET TREE
- FLOWERING SMALL TREE
- PROPOSED SHRUBS/ORNAMENTAL GRASSES
- LOAM AND SEED
- PLANT QUANTITY AND SPECIES

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	188	358
	PROJECT FILE NO. 608717		

PLANTING PLANS

Plotted on 5-May-2023 3:35 PM
20121457A70_LSP01.DWG



PLANT LIST

KEY	BOTANICAL NAME	COMMON NAME	HT.	QTY.	SIZE
	TREES				
AR	ACER RUBRUM 'OCTOBER GLORY'	OCTOBER GLORY RED MAPLE	100	2	2.5"-3" CAL.

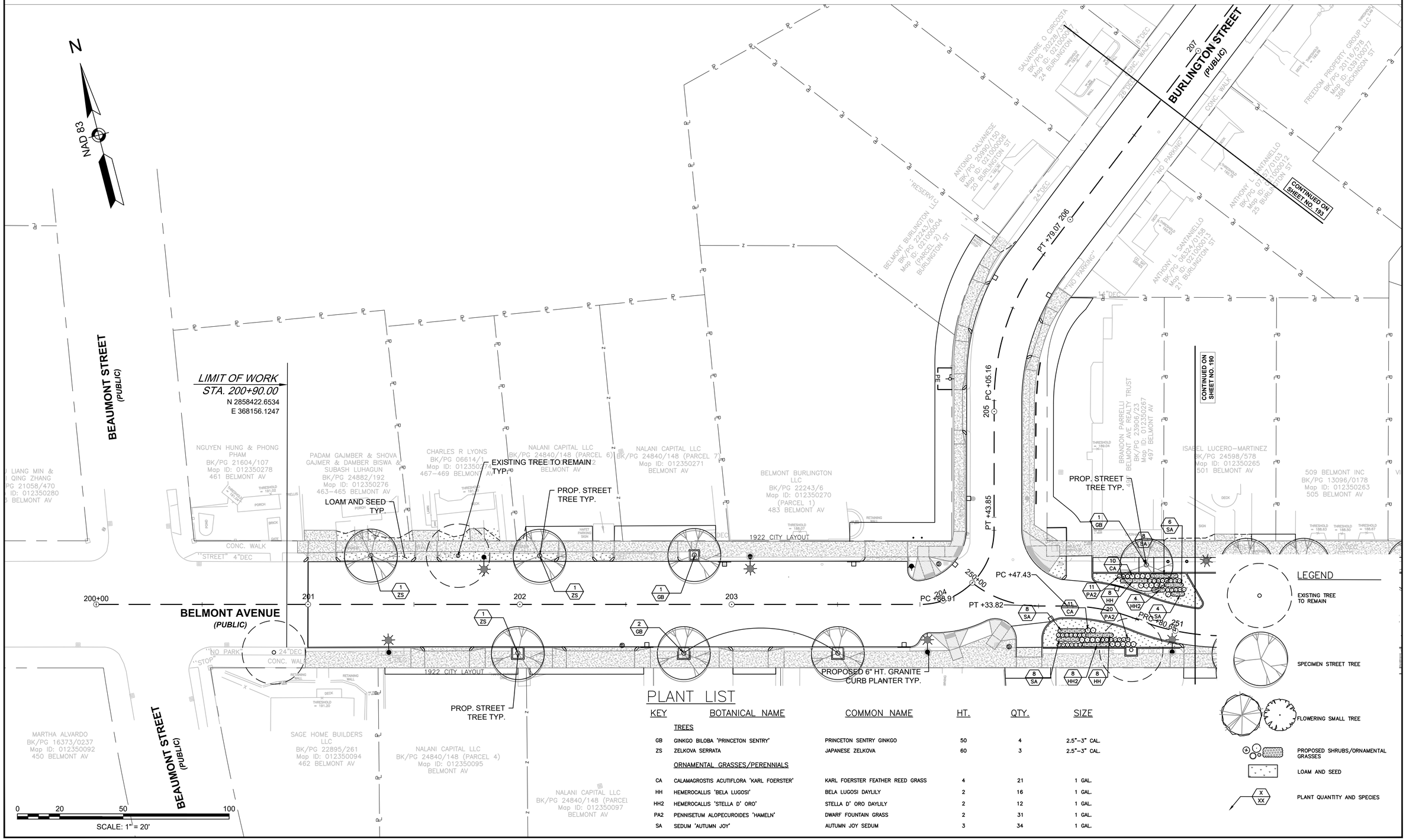
LEGEND

- EXISTING TREE TO REMAIN
- SPECIMEN STREET TREE
- FLOWERING SMALL TREE
- PROPOSED SHRUBS/ORNAMENTAL GRASSES
- LOAM AND SEED
- PLANT QUANTITY AND SPECIES

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	189	358
PROJECT FILE NO.	608717		

PLANTING PLANS



PLANT LIST

KEY	BOTANICAL NAME	COMMON NAME	HT.	QTY.	SIZE
	TREES				
GB	GINKGO BILOBA 'PRINCETON SENTRY'	PRINCETON SENTRY GINKGO	50	4	2.5"–3" CAL.
ZS	ZELKOVA SERRATA	JAPANESE ZELKOVA	60	3	2.5"–3" CAL.
	ORNAMENTAL GRASSES/PERENNIALS				
CA	CALAMAGROSTIS ACUTIFLORA 'KARL FOERSTER'	KARL FOERSTER FEATHER REED GRASS	4	21	1 GAL.
HH	HEMEROCALLIS 'BELA LUGOSI'	BELA LUGOSI DAYLILY	2	16	1 GAL.
HH2	HEMEROCALLIS 'STELLA D' ORO'	STELLA D' ORO DAYLILY	2	12	1 GAL.
PA2	PENNISETUM ALOPECUROIDES 'HAMELN'	DWARF FOUNTAIN GRASS	2	31	1 GAL.
SA	SEDUM 'AUTUMN JOY'	AUTUMN JOY SEDUM	3	34	1 GAL.

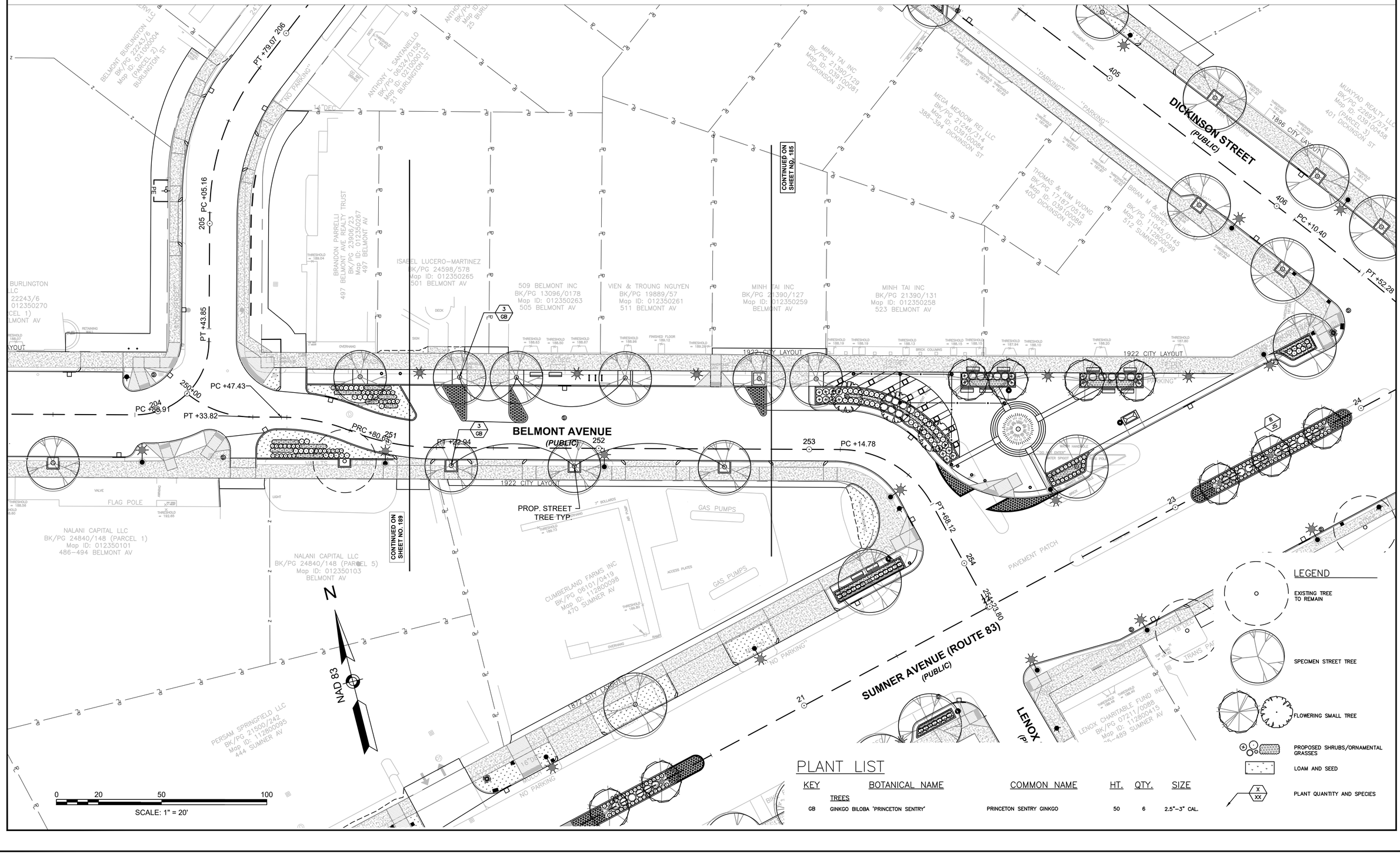
20121457A70_LSP01.DWG Plotted on 5-May-2023 3:35 PM

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	190	358
PROJECT FILE NO.	608717		

PLANTING PLANS

20121457A70_LSP01.DWG Plotted on 5-May-2023 3:35 PM


BELMONT AVENUE
(PUBLIC)
DICKINSON STREET
(PUBLIC)
SUMNER AVENUE (ROUTE 83)
(PUBLIC)
1922 CITY LAYOUT
1896 CITY LAYOUT
1672 CITY LAYOUT
"NO PARKING"
"PARKING"
PT +79.07
PC +05.16
PT +43.85
PC +47.43
PT +33.82
PRC +80.65
PT +22.94
PC +14.78
PT +98.12
PC +10.40
PT +52.28
PC +23.80
PT +88.91
PC +58.91
PT +43.85
PC +43.85
PT +00.00
PC +00.00
PT +50.00
PC +50.00
PT +00.00
PC +00.00
PT +50.00
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PT +00.00
PC +00.00
PT +50.00
PC +50.00

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXX(XXX)X	191	358
PROJECT FILE NO.	608717		

PLANTING PLANS

Plotted on 5-May-2023 3:36 PM
20121457A70_LSP01.DWG

N
NAD 83

SUMNER AVENUE (PUBLIC)

BELMONT AVENUE (ROUTE 83) (PUBLIC)

DICKINSON STREET (PUBLIC)

CONTINUED ON SHEET NO. 186
CONTINUED ON SHEET NO. 192

PROP. SMALL TREE TYP.
PROP. 6" HT. RAISED GRANITE PLANTER
PROPOSED 6" HT GRANITE CURB PLANTER TYP.
PROPOSED STREET TREE TYP.
LOAM AND SEED TYP.
PROP. STREET TREE TYP.
PT +34.10
PC +11.35
PC +15.10

1922 CITY LAYOUT
1906 CITY LAYOUT

RICHARD P CROWLEY & JOHN BONAVITA & CAROL SLATE TRUSTEES BK/PG 17485/0163 Map ID: 012350254 (PARCEL 2) BELMONT AV

SPRINGFIELD INSTITUTION FOR SAVINGS BK/PG 1984/221 Map ID: 112800405 561 SUMNER AV

SPRINGFIELD INSTITUTION FOR SAVINGS BK/PG 2485/395 Map ID: 112800407 SUMNER AV

"BANK" SIGN

LLT 1501B-51-1

MASSACHUSETTS CVS PHARMACY LLC BK/PG 17112/99 Map ID: 112800404 SUMNER AV

AGREE EASTERN, LLC BK/PG 24099/30 Map ID: 012350242 (PARCEL 1) #615 BELMONT

AGREE EASTERN, LLC BK/PG 24099/30 Map ID: 012350245 (PARCEL 3) BELMONT AV

AGREE EASTERN, LLC BK/PG 24099/30 Map ID: 012350246 (PARCEL 2) BELMONT AV

SPRINGFIELD INSTITUTION FOR SAVINGS BK/PG 1984/225 Map ID: 012350247 BELMONT AV

RICHARD P CROWLEY & JOHN BONAVITA & CAROL SLATE TRUSTEES BK/PG 17485/0163 Map ID: 012350250 (PARCEL 1) 589 BELMONT AV

"BONOTENTER"

PAVEMENT

CVS SIGN

"ENTER" SIGN

"NO PARKING"

"EXIT ONLY"

SALMAR REALTY LLC BK/PG 20154/429 Map ID: 012350108 568 BELMONT AV (PARCEL A)

SALMAR REALTY LLC BK/PG 20154/429 Map ID: 039100453 DICKINSON ST (PARCEL B)

SALMAR REALTY LLC BK/PG 20154/429 Map ID: 039100453 DICKINSON ST (PARCEL C)

FDC LLC BK/PG 19281/479 (LOT D) Map ID: 012350107 582–586 BELMONT AV

HSU LIANG MIN & CUI QING ZHANG BK/PG 21533/72 Map ID: 012350110 600 BELMONT AV

OLD GAS PUMP AREA

CINDY TAI BK/PG 24782/76 Map ID: 030930002 6–10 COMMONWEALTH AV

BINH NGUYEN BK/PG 24192/0454 Map ID: 012350112 14–16 COMMONWEALTH AV

CHRISTOPHER DMD & PA JR DONOHUE BK/PG 05880/033

SPRINGFIELD PARKING AUTHORITY BK/PG 7925/520 Map ID: 039100094 DICKINSON ST

KARKAS BK/PG 45 (PARCEL

GREASE TRAP
GRAVEL
DECK
CONC. WALK
LAWN
MULCH & BUSHES
STONE PAVERS
OVERHANG
CROSS WALK

302 303 304 305 306 307 409 410

902.45' 21

0 20 50 100
SCALE: 1" = 20'

PLANT LIST

KEY	BOTANICAL NAME	COMMON NAME	HT.	QTY.	SIZE
	TREES				
AG	AMELANCHIER X GRANDIFLORA 'AUTUMN BRILLIANCE'	AUTUMN BRILLIANCE SERVICEBERRY	20	8	2"–2.5" CAL. (SINGLE STEM)
GB	GINKGO BILOBA 'PRINCETON SENTRY'	PRINCETON SENTRY GINKGO	50	5	2.5"–3" CAL.
	ORNAMENTAL GRASSES/PERENNIALS				
CA	CALAMAGROSTIS ACUTIFLORA 'KARL FOERSTER'	KARL FOERSTER FEATHER REED GRASS	4	5	1 GAL.
HH	HEMEROCALLIS 'BELA LUGOSI'	BELA LUGOSI DAYLILY	2	30	1 GAL.
HH2	HEMEROCALLIS 'STELLA D' ORO'	STELLA D' ORO DAYLILY	2	30	1 GAL.
RF	RUDBECKIA FULGIDA 'GOLDSTURM'	BLACK–EYED SUSAN	2	20	1 GAL.
PA2	PENNISETUM ALOPECUROIDES 'HAMELN'	DWARF FOUNTAIN GRASS	2	8	1 GAL.

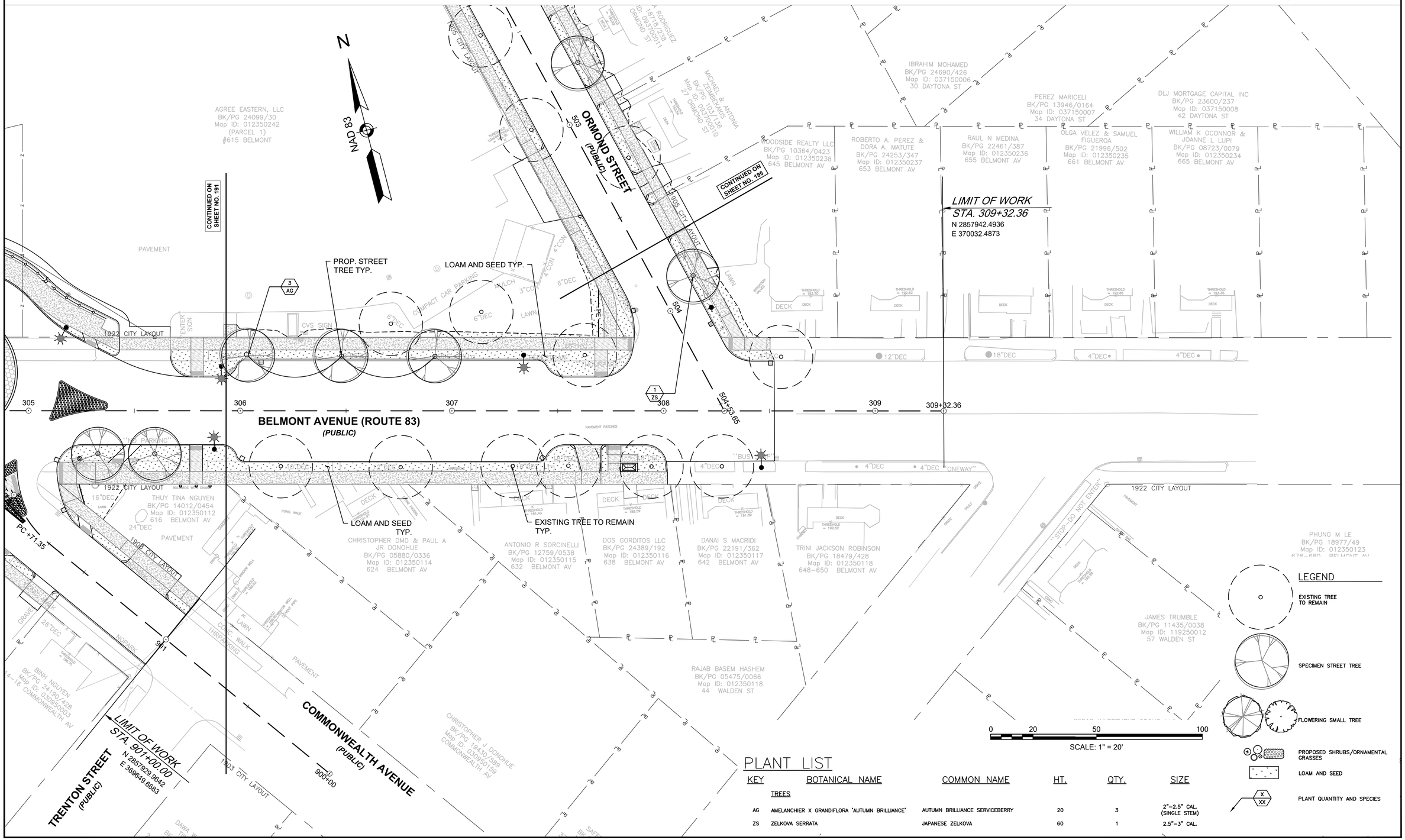
LEGEND

- EXISTING TREE TO REMAIN
- SPECIMEN STREET TREE
- FLOWERING SMALL TREE
- PROPOSED SHRUBS/ORNAMENTAL GRASSES
- LOAM AND SEED
- PLANT QUANTITY AND SPECIES

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	192	358
PROJECT FILE NO.	608717		

PLANTING PLANS



PLANT LIST

KEY	BOTANICAL NAME	COMMON NAME	HT.	QTY.	SIZE
	TREES				
AG	AMELANCHIER X GRANDIFLORA 'AUTUMN BRILLIANCE'	AUTUMN BRILLIANCE SERVICEBERRY	20	3	2"-2.5" CAL. (SINGLE STEM)
ZS	ZELKOVA SERRATA	JAPANESE ZELKOVA	60	1	2.5"-3" CAL.

20121457A70_LSP01.DWG Plotted on 5-May-2023 3:36 PM

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	193	355
	PROJECT FILE NO. 608717		358

PLANTING PLANS

Plotted on 5-May-2023 3:37 PM

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LIMIT OF WORK
STA. 400+80.47
N 2858716.8242
E 368671.8197

NAD 83

CONTINUED ON SHEET NO. 186

GRENADA TERRACE (PUBLIC)

DICKINSON STREET (PUBLIC)

BURLINGTON STREET (PUBLIC)

PC +80.47 PT +46.60 PC +10.40 PT +52.28 PT +79.07

LOAM AND SEED TYP.

PROP. STREET TREE TYP.

PROP. 6" HT. RAISED GRANITE PLANTER

CONTINUED ON SHEET NO. 189

SCALE: 1" = 20'

PLANT LIST

KEY	BOTANICAL NAME	COMMON NAME	HT.	QTY.	SIZE
	TREES				
CC	CARPINUS CAROLINIANA	AMERICAN HORNBEAM	35	4	2"–2.5" CAL.
UH	ULMUS X HOMESTEAD	HOMESTEAD ELM	50	2	2.5"–3" CAL.
UAP	ULMUS AMERICANA 'PRINCETON'	PRINCETON ELM	70	4	2.5"–3" CAL.
	PERENNIALS				
CT	CAREX STRICTA	TUSSOCK SEDGE	3	32	1 GAL.

LEGEND

- EXISTING TREE TO REMAIN
- SPECIMEN STREET TREE
- FLOWERING SMALL TREE
- PROPOSED SHRUBS/ORNAMENTAL GRASSES
- LOAM AND SEED
- PLANT QUANTITY AND SPECIES

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	194	358
	PROJECT FILE NO. 608717		

PLANTING PLANS

Plotted on 5-May-2023 3:37 PM
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SUMNER AVENUE (PUBLIC)
PT +34.10
PC +13.91
DICKINSON STREET (PUBLIC)
TRENTON STREET (PUBLIC)
CLIFTWOOD STREET (PUBLIC)
LIMIT OF WORK
STA. 413+51.42
N 2857703.1809
E 369437.9214
NAD 83
PROP. STREET TREE TYP.
PROP. SMALL TREE TYP.
PROP. 6" HT. RAISED GRANITE PLANTER
CONTINUED ON SHEET NO. 186
FDC LLC BK/PG 19281/479 (LOT D) Map ID: 012350107 582-586 BELMONT AV
FDC LLC BK/PG 19281/479 (LOT D) Map ID: 116400004 TRENTON ST
JAVIER E GOZALEZ BK/PG 19628/535 Map ID: 116400009 9-11 TRENTON ST
SALMAR REALTY LLC BK/PG 20154/429 Map ID: 039100453 DICKINSON ST (PARCEL B)
SALMAR REALTY LLC BK/PG 20154/429 Map ID: 039100453 DICKINSON ST (PARCEL C)
SALMAR REALTY LLC BK/PG 20154/429 Map ID: 012350108 568 BELMONT AV (PARCEL A)
KARAASLAN REALTY LLC BK/PG 20237/557 Map ID: 039100444 (PARCEL 3) DICKINSON ST
KARAASLAN REALTY LLC BK/PG 20237/557 Map ID: 039100447 (PARCEL 1 & 2) 459 DICKINSON ST
WILFREDO LOPEZ JR BK/PG 11521/0103 Map ID: 039100443 471-473 DICKINSON ST
JANDICE HAYNES BK/PG 24004/533 Map ID: 039100442 483 DICKINSON ST
SPRINGFIELD PARKING AUTHORITY BK/PG 7792/520 Map ID: 039100094 DICKINSON ST
DICKINSON STREET MANAGEMENT LLC BK/PG 13826/0248 Map ID: 039100098 (PARCEL 2) 452 DICKINSON ST
DICKINSON STREEET MANAGEMENT LLC BK/PG 13826/0248 Map ID: 039100100 (PARCEL 3) 458 DICKINSON ST
DICKINSON STREET MANAGEMENT LLC BK/PG 13826/0248 Map ID: 039100096 (PARCEL1) 448 DICKINSON ST
PARKWOOD APARTMENTS LLC BK/PG 22022/168 Map ID: 039100104 464 DICKINSON ST
WALGREEN'' SIGN
DONOTENTER''
BUS STOP''
STOP''
1922 CITY LAYOUT
DECK
GREASE
BUS. METERS
TILT UG
408 409 410 411 412 413 414 707

0 20 50 100
SCALE: 1" = 20'

PLANT LIST

KEY	BOTANICAL NAME	COMMON NAME	HT.	QTY.	SIZE
	TREES				
AG	AMELANCHIER X GRANDIFLORA 'AUTUMN BRILLIANCE'	AUTUMN BRILLIANCE SERVICEBERRY	20	1	2"-2.5" CAL. (SINGLE STEM)
UH	ULMUS X HOMESTEAD	HOMESTEAD ELM	50	3	2.5"-3" CAL.
UAP	ULMUS AMERICANA 'PRINCETON'	PRINCETON ELM	60	3	2.5"-3" CAL.
UD	ULMUS DAVIDIANA VAR. JAPONICA 'PROSPECTOR'	PROSPECTOR ELM	40	2	2.5"-3" CAL.
	GRASSES/GROUNDCOVER/PERENNIALS				
CT	CAREX STRICTA	TUSSOCK SEDGE	2	64	1 GAL.

LEGEND
- EXISTING TREE TO REMAIN
- SPECIMEN STREET TREE
- FLOWERING SMALL TREE
- PROPOSED SHRUBS/ORNAMENTAL GRASSES
- LOAM AND SEED
- PLANT QUANTITY AND SPECIES (X / XX)

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXX(XXX)X	195	358
PROJECT FILE NO.	608717		

PLANTING PLANS

20121457A70_LSP01.DWG Plotted on 5-May-2023 3:37 PM

SUMNER AVENUE (PUBLIC)

ORMOND STREET (PUBLIC)

LIMIT OF WORK
STA. 309+32.36
N 2857942.4936
E 370032.4873

EXISTING TREE TO REMAIN TYP.

LOAM AND SEED TYP.

PROP. STREET TREE TYP.

CONTINUED ON SHEET NO. 192

CONTINUED ON SHEET NO. 188

NAD 83

0 20 50 100
SCALE: 1" = 20'

PLANT LIST

KEY	BOTANICAL NAME	COMMON NAME	HT.	QTY.	SIZE
	TREES				
ZS	ZELKOVA SERRATA	JAPANESE ZELKOVA	60	1	2.5"–3" CAL.

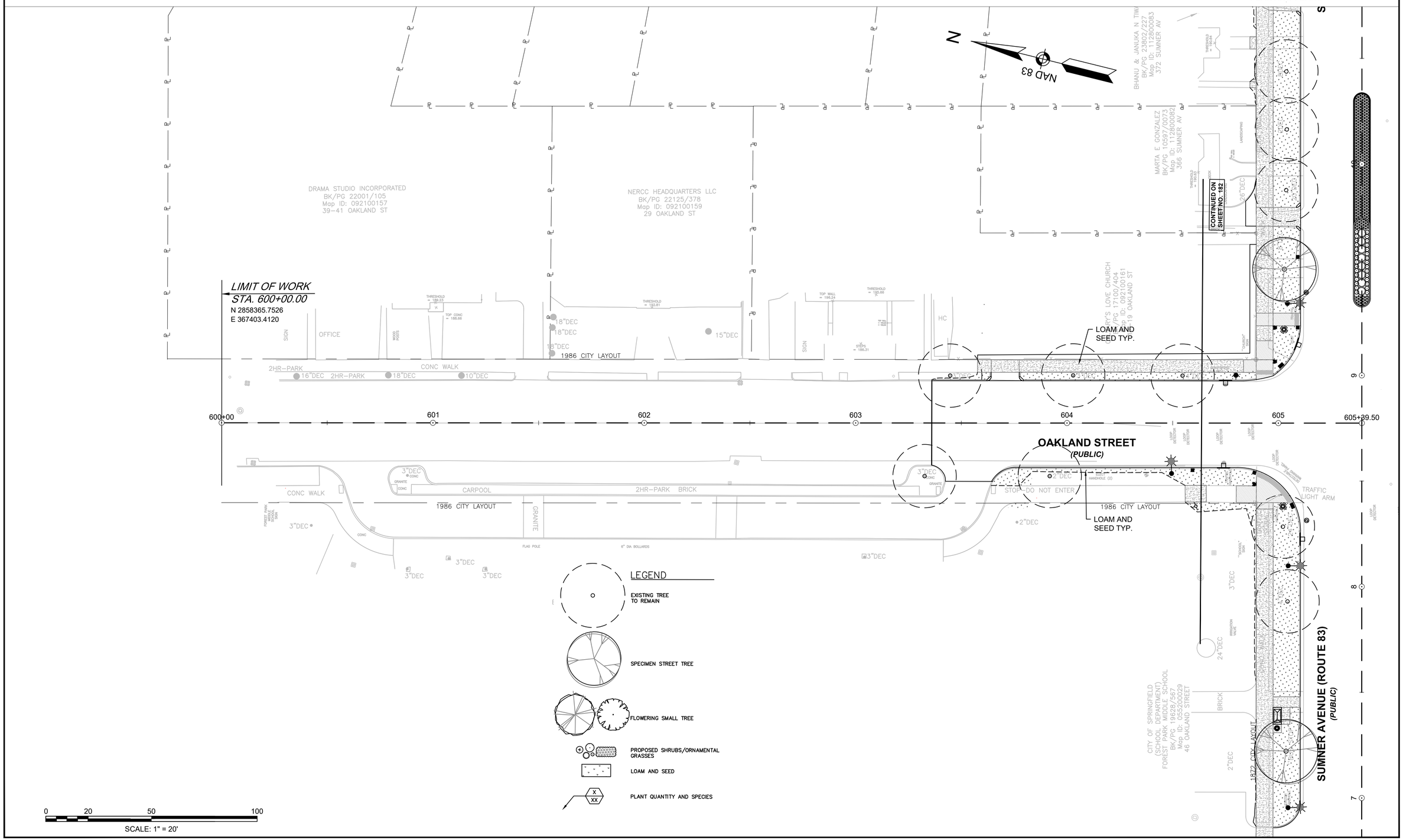
LEGEND

- EXISTING TREE TO REMAIN
- SPECIMEN STREET TREE
- FLOWERING SMALL TREE
- PROPOSED SHRUBS/ORNAMENTAL GRASSES
- LOAM AND SEED
- PLANT QUANTITY AND SPECIES

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	196	358
PROJECT FILE NO.	608717		

PLANTING PLANS



20121457A70_LSP01.DWG Plotted on 5-May-2023 3:38 PM

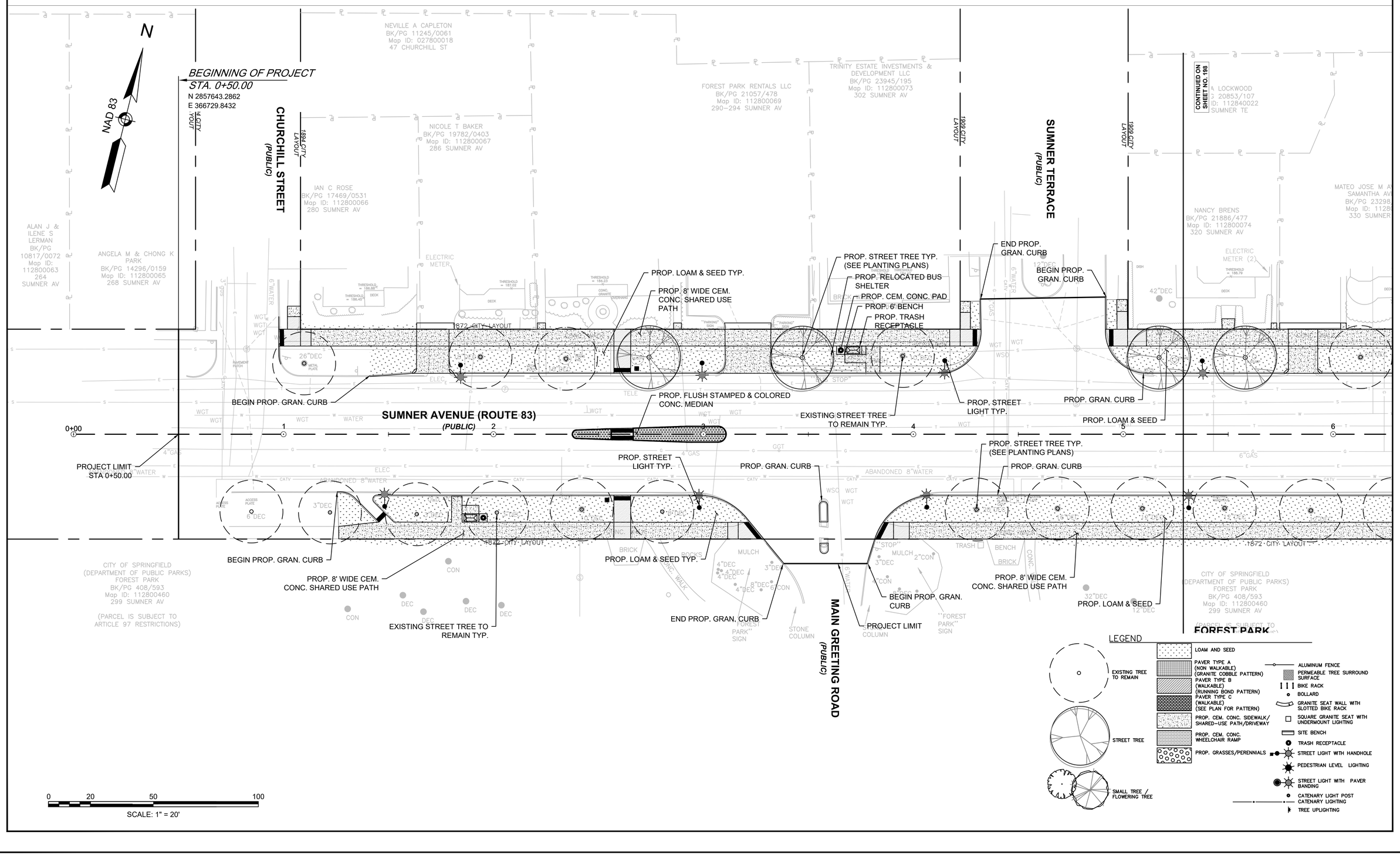
SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	197	358
PROJECT FILE NO.	608717		

STREETSCAPE PLANS

NOTE: SEE UTILITY PLANS ON SHEETS 121 TO 141 FOR DISPOSITION OF EXISTING AND PROPOSED UTILITIES SHOWN IN STREETSCAPE PLANS

20121457A70_LND01.DWG Plotted on 5-May-2023 3:39 PM

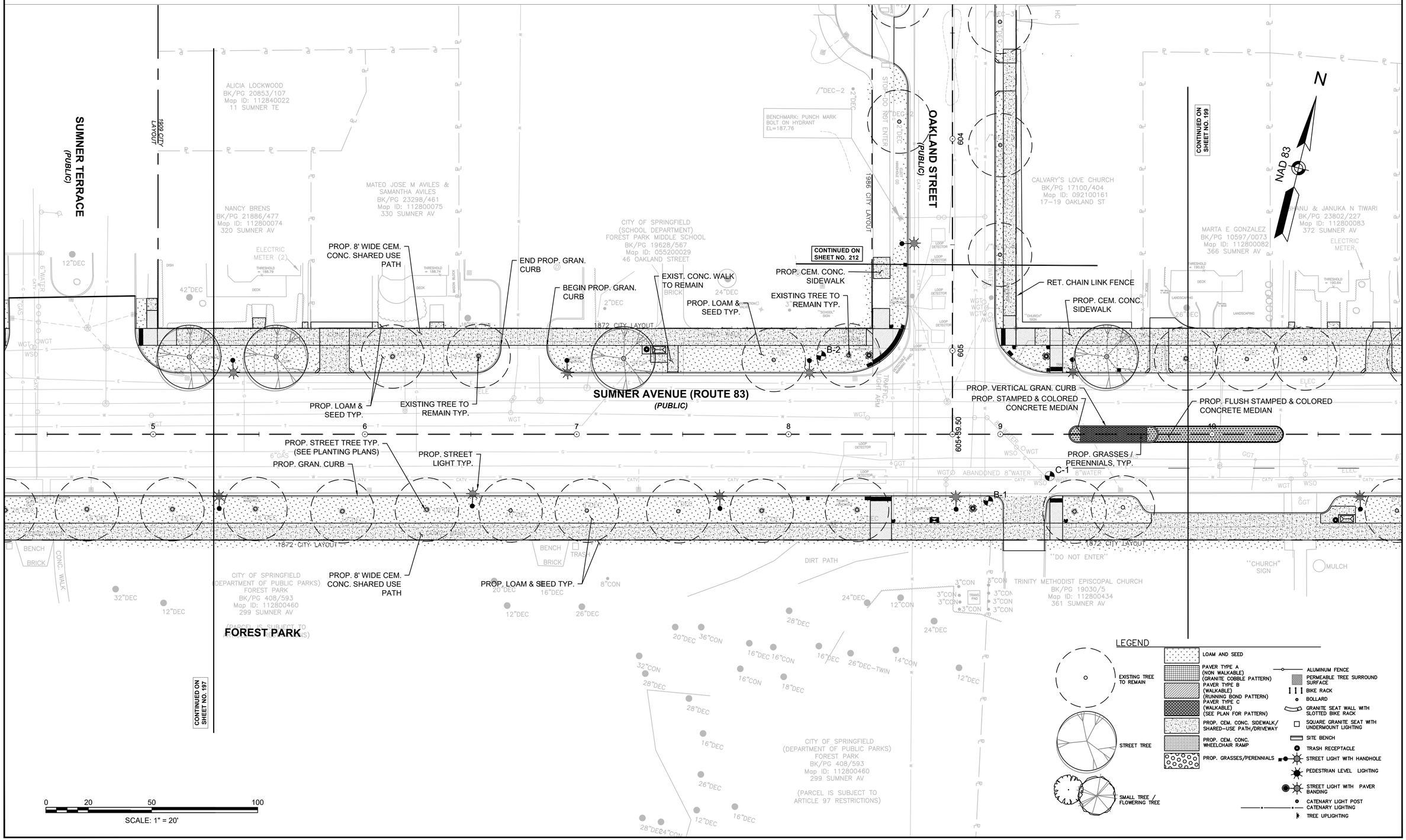


SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	198	358
PROJECT FILE NO.	608717		

STREETSCAPE PLANS

NOTE: SEE UTILITY PLANS ON SHEETS 121 TO 141 FOR DISPOSITION OF EXISTING AND PROPOSED UTILITIES SHOWN IN STREETSCAPE PLANS



20121457A70_LND01.DWG Plotted on 5-May-2023 3:40 PM

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXX(XXX)X	199	358
	PROJECT FILE NO.	608717	

STREETSCAPE PLANS

NOTE: SEE UTILITY PLANS ON SHEETS 121 TO 141 FOR DISPOSITION OF EXISTING AND PROPOSED UTILITIES SHOWN IN STREETSCAPE PLANS

N

NAD 83

KENWOOD TERRACE (PUBLIC)

BEAUMONT STREET (PUBLIC)

SUMNER AVENUE (ROUTE 83) (PUBLIC)

CONTINENTAL STREET (PUBLIC)

CALVARY'S LOVE CHURCH
BK/PG 17100/404
Map ID: 092100161
17-19 OAKLAND ST

ERIK G. SCOTT
BK/PG 23890/595
Map ID: 072520003
16 KENWOOD TER

LOTCUS LLC
BK/PG 24804/322
Map ID: 072520021
17 KENWOOD TER

GREGORY A. & EVA ROUGELLIS
BK/PG 05885/202
Map ID: 011450003
16 BEAUMONT ST

BENCHMARK: SPIKE IN UTILITY LIGHT POLE
EL=188.60

MANU & JANUKA N TIWARI
BK/PG 23802/227
Map ID: 112800083
372 SUMNER AV

MARTA E GONZALEZ
BK/PG 10597/0073
Map ID: 112800082
366 SUMNER AV

KERUBE FARHADI
BK/PG 22078/523
Map ID: 112800084
376-378 SUMNER AV

ANDREW W VIVENZIO
BK/PG 12956/0494
Map ID: 112800085
390 SUMNER AV

DAO VU
BK/PG 15728/0310
Map ID: 112800086
398 SUMNER AV

ROSEMARY PEREZ
BK/PG 15061/0330
Map ID: 112800087
402 SUMNER AV

TOWER REALTY PARKER ST LLC
BK/PG 23062/120
Map ID: 112800088
408 SUMNER AV

PARKRIDGE PRO
BK/PG 176
Map ID: 112
420 SUMN

TRINITY METHODIST EPISCOPAL CHURCH
BK/PG 19030/5
Map ID: 112800434
361 SUMNER AV

GEN-WEALTH PROPERTIES LLC
BK/PG 24814/392
Map ID: 112800426

CONTINUED ON SHEET NO. 200

CONTINUED ON SHEET NO. 198

END PROP. GRAN. CURB

PROJECT LIMIT

BEGIN PROP. GRAN. CURB

EXISTING TREE TO REMAIN TYP.

PROP. LOAM & SEED TYP.

PROP. STREET LIGHT TYP.

PROP. 8' WIDE CEM. CONC. SHARED USE PATH

PROP. 12.5' WIDE CEM. CONC. SIDEWALK AT BUS STOP

PROP. FLUSH STAMPED & COLORED CONCRETE MEDIAN

PROP. STAMPED & COLORED CONCRETE MEDIAN

PROP. VERTICAL GRAN. CURB

PROP. FLUSH STAMPED & COLORED CONCRETE MEDIAN (SEE DETAILS)

PROP. STREET TREE TYP. (SEE PLANTING PLAN)

PROP. SMALL TREE TYP.

B-1

C-1

1872 CITY LAYOUT

"DO NOT ENTER"

"CHURCH" SIGN

MULCH

LEGEND

- LOAM AND SEED
- PAVER TYPE A (NON WALKABLE) (GRANITE COBBLE PATTERN)
- PAVER TYPE B (WALKABLE) (RUNNING BOND PATTERN)
- PAVER TYPE C (WALKABLE) (SEE PLAN FOR PATTERN)
- PROP. CEM. CONC. SIDEWALK/ SHARED-USE PATH/DRIVEWAY
- PROP. CEM. CONC. WHEELCHAIR RAMP
- PROP. GRASSES/PERENNIALS
- EXISTING TREE TO REMAIN
- STREET TREE
- SMALL TREE / FLOWERING TREE
- ALUMINUM FENCE
- PERMEABLE TREE SURROUND SURFACE
- BIKE RACK
- BOLLARD
- GRANITE SEAT WALL WITH SLOTTED BIKE RACK
- SQUARE GRANITE SEAT WITH UNDERMOUNT LIGHTING
- SITE BENCH
- TRASH RECEPTACLE
- STREET LIGHT WITH HANDHOLE
- PEDESTRIAN LEVEL LIGHTING
- STREET LIGHT WITH PAVER BANDING
- CATENARY LIGHT POST CATENARY LIGHTING
- TREE UPLIGHTING

0 20 50 100

SCALE: 1" = 20'

20121457A70_LND01.DWG Plotted on 5-May-2023 3:40 PM

NOTE: SEE UTILITY PLANS ON SHEETS 121 TO 141 FOR DISPOSITION OF EXISTING AND PROPOSED UTILITIES SHOWN IN STREETSCAPE PLANS

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	200	358
	PROJECT FILE NO. 608717		

STREETSCAPE PLANS

20121457A70_LND01.DWG Plotted on 5-May-2023 3:40 PM

N

NAD 83

CONTINUED ON SHEET NO.201

GREGORY A. & EVA ROUGELLIS BK/PG 05885/202 Map ID: 011450004 16 BEAUMONT ST

EDWARD M & JOANNE M PIKULA BK/PG 08007/0095 Map ID: 011450036 17 BEAUMONT ST

NALANI CAPITAL LLC/ BK/PG 24840/148 (PARCEL 5) Map ID: 012350103 BELMONT AV

TOWER REALTY PARKER ST LLC BK/PG 23062/120 Map ID: 112800088 408 SUMNER AV

ROSEMARY PEREZ BK/PG 15061/0330 Map ID: 112800087 402 SUMNER AV

BEAUMONT STREET (PUBLIC)

PARKRIDGE PROPERTIES LLC BK/PG 17660/288 Map ID: 112800089 420 SUMNER AV

ALTAGRACIA MIRIAN ESTRELLA DE URENA BK/PG 24398/420 Map ID: 112800090 426 SUMNER AV

ISAAC GRULLON COLON BK/PG 24472/564 Map ID: 112800091 432 SUMNER AV

SUMNER LLC BK/PG 20291/164 Map ID: 112800092 440 SUMNER AV

PERSAM SPRINGFIELD LLC BK/PG 21500/242 Map ID: 112800095 444 SUMNER AV

PROJECT LIMIT

BEGIN PROP. GRAN. CURB

PROP. 8' WIDE CEM. CONC. SHARED USE PATH

END PROP. GRAN. CURB

PROP. SMALL TREE TYP.

PROP. STAMPED & COLORED CONCRETE MEDIAN

PROP. VERTICAL GRAN. CURB

PROP. FLUSH STAMPED & COLORED CONCRETE MEDIAN (SEE DETAILS)

PROP. LOAM & SEED TYP.

PROP. STREET TREE TYP. (SEE PLANTING PLANS)

PROP. GRAN. CURB

PROP. STREET LIGHT TYP.

PROP. GRAN. CURB

PROP. LOAM & SEED TYP.

PROP. BIKE RACK (1 HOOP) TYP.

PROP. 6' BENCH TYP.

SUMNER AVENUE (ROUTE 83) (PUBLIC)

CONTINENTAL STREET (PUBLIC)

CLIFTWOOD STREET (PUBLIC)

PARKWOOD STREET (PUBLIC)

PROP. 8' WIDE CEM. CONC. SHARED USE PATH

PROJECT LIMIT

BEGIN PROP. GRAN. CURB

PROP. CEM. CONC. SIDEWALK

"PARKING" SIGN

BENCHMARK: TOP SPINDLE HYDRANT EL=190.96

GEN-WEALTH PROPERTIES LLC BK/PG 24814/392 Map ID: 112800426 407 SUMNER AV

TY G MEZZETTI BK/PG 24949/301 Map ID: 112800424 419 SUMNER AV

PARKWOOD APARTMENTS LLC BK/PG 18274/408 Map ID: 112800423 425 SUMNER AV

RF REALTY COMPANY LLC BK/PG 19577/357 Map ID: 112800421 445 SUMNER AV

RICHARD J LABR BK/PG 1293 Map ID: 11 461 SUMNE

CONTINUED ON SHEET NO.199

JOSE L ESTEVEZ BK/PG 16331/0161 Map ID: 112800425 415 SUMNER AV

PHUONG L. DO BK/PG 15068/0443 Map ID: 031500017 11 CONTINENTAL ST

FELIZ AREZ JR BK/PG 22210/406 Map ID: 095300003 14 PARKWOOD ST

0 20 50 100

SCALE: 1" = 20'

LEGEND

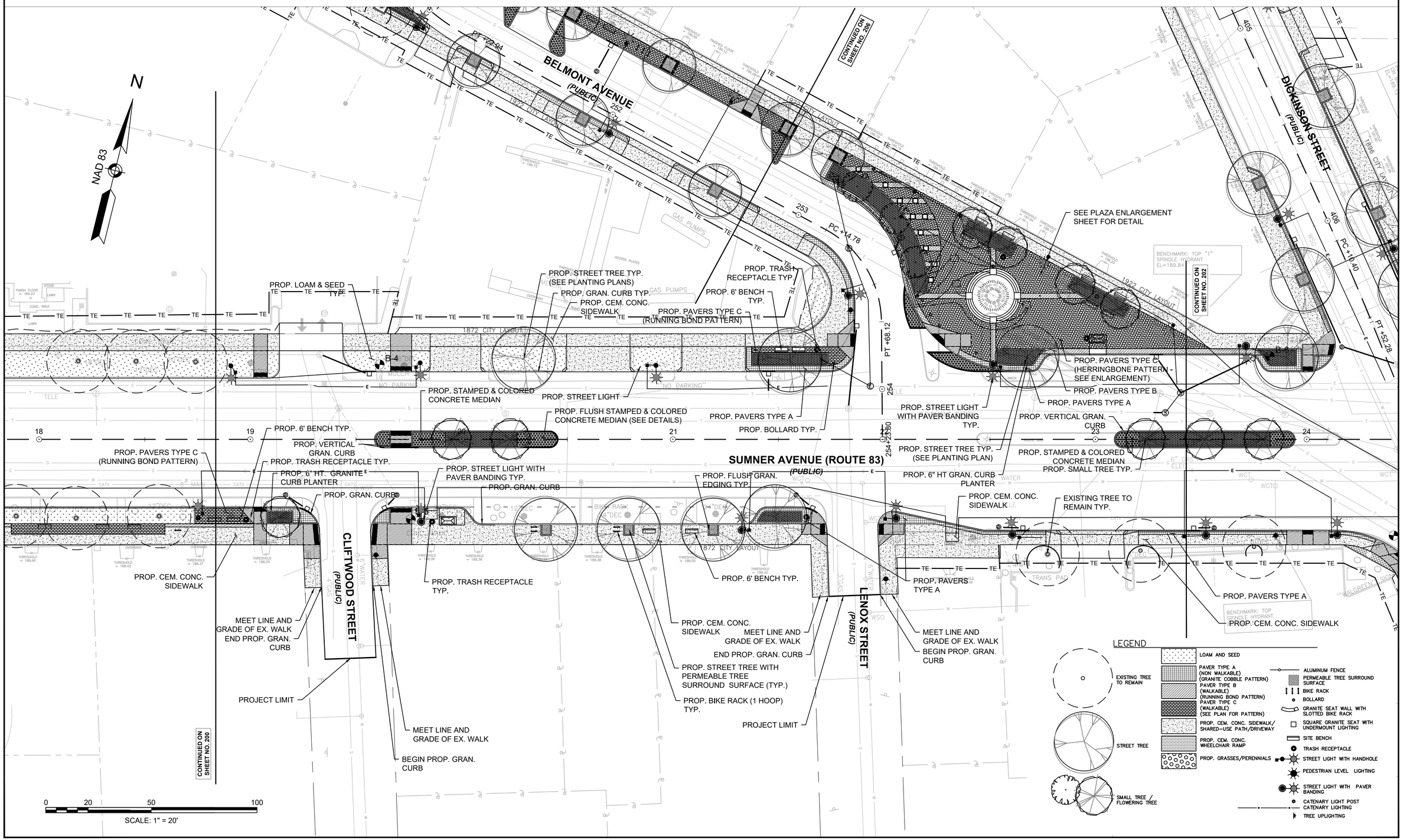
- EXISTING TREE TO REMAIN
- STREET TREE
- SMALL TREE / FLOWERING TREE
- LOAM AND SEED
- PAVER TYPE A (NON WALKABLE) (GRANITE COBBLE PATTERN)
- PAVER TYPE B (WALKABLE) (RUNNING BOND PATTERN)
- PAVER TYPE C (WALKABLE) (SEE PLAN FOR PATTERN)
- PROP. CEM. CONC. SIDEWALK/ SHARED-USE PATH/DRIVEWAY
- PROP. CEM. CONC. WHEELCHAIR RAMP
- PROP. GRASSES/PERENNIALS
- ALUMINUM FENCE
- PERMEABLE TREE SURROUND SURFACE
- BIKE RACK
- BOLLARD
- GRANITE SEAT WALL WITH SLOTTED BIKE RACK
- SQUARE GRANITE SEAT WITH UNDERMOUNT LIGHTING
- SITE BENCH
- TRASH RECEPTACLE
- STREET LIGHT WITH HANDHOLE
- PEDESTRIAN LEVEL LIGHTING
- STREET LIGHT WITH PAVER BANDING
- CATENARY LIGHT POST CATENARY LIGHTING
- TREE UPLIGHTING

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXX(XXX)X	201	358
	PROJECT FILE NO.	608717	

STREETSCAPE PLANS

NOTE: SEE UTILITY PLANS ON SHEETS 121 TO 141 FOR DISPOSITION OF EXISTING AND PROPOSED UTILITIES SHOWN IN STREETSCAPE PLANS



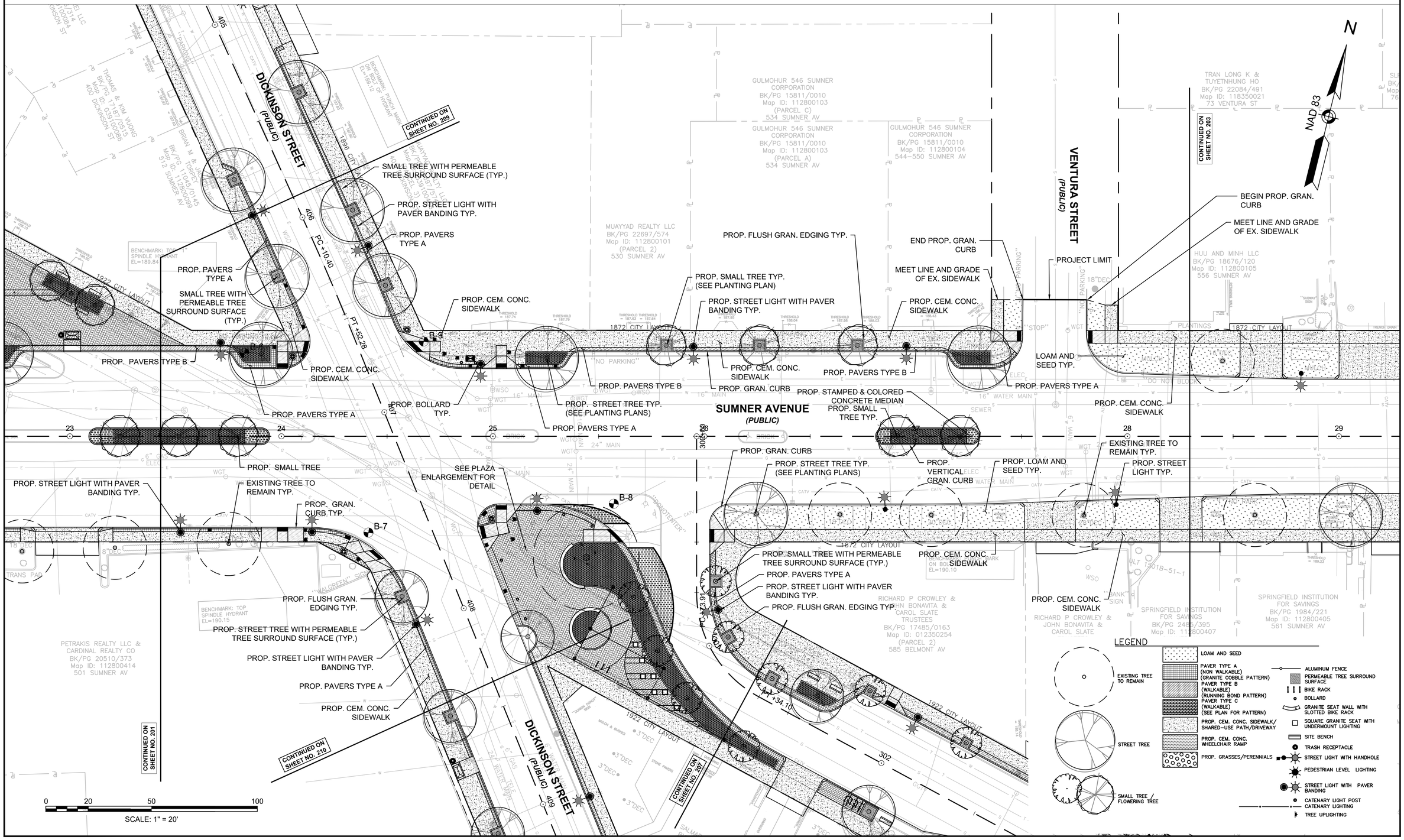
20121457A70_LND01.DWG Plotted on 5-May-2023 3:41 PM

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXX(XXX)X	202	358
PROJECT FILE NO.	608717		

STREETSCAPE PLANS

NOTE: SEE UTILITY PLANS ON SHEETS 121 TO 141 FOR DISPOSITION OF EXISTING AND PROPOSED UTILITIES SHOWN IN STREETSCAPE PLANS



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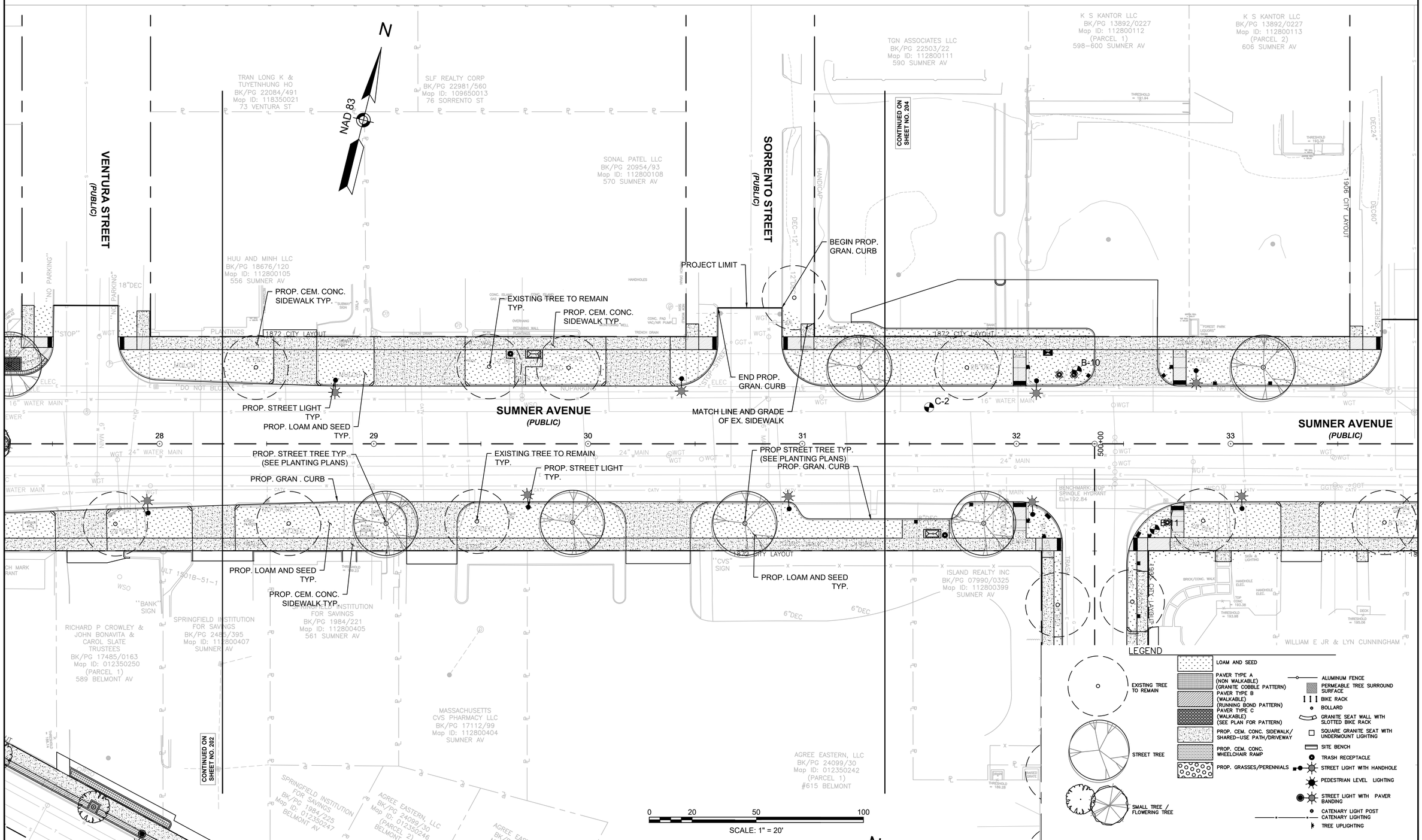
NOTE: SEE UTILITY PLANS ON SHEETS 121 TO 141 FOR DISPOSITION OF EXISTING AND PROPOSED UTILITIES SHOWN IN STREETSCAPE PLANS

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	203	358
PROJECT FILE NO.	608717		

STREETSCAPE PLANS



20121457A70_LND01.DWG Plotted on 5-May-2023 3:41 PM

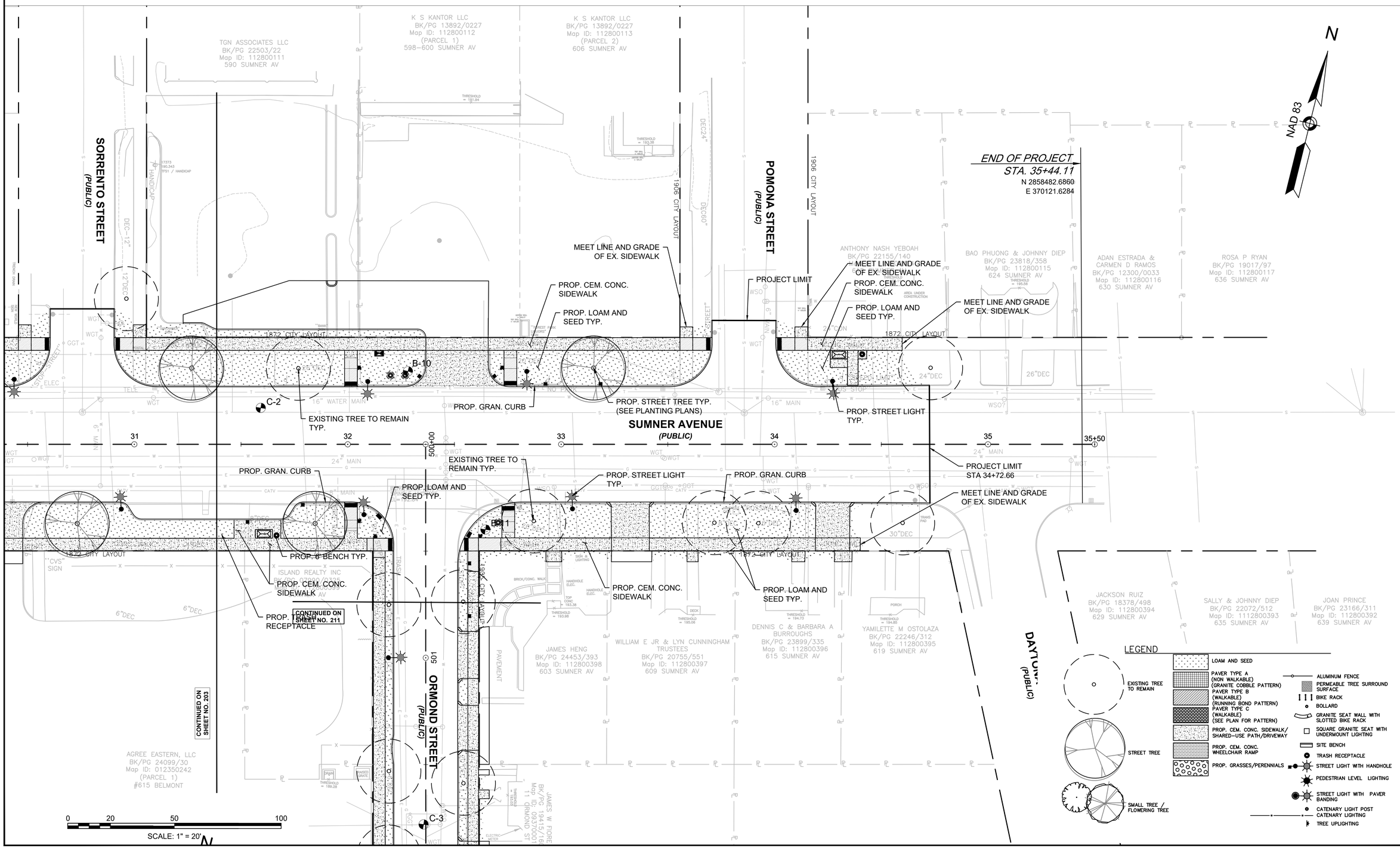
SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	204	358
PROJECT FILE NO.	608717		

STREETSCAPE PLANS

NOTE: SEE UTILITY PLANS ON SHEETS 121 TO 141 FOR DISPOSITION OF EXISTING AND PROPOSED UTILITIES SHOWN IN STREETSCAPE PLANS

20121457A70_LND01.DWG Plotted on 5-May-2023 3:42 PM



SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXX(XXX)X	205	358
PROJECT FILE NO.	608717		

STREETSCAPE PLANS

NOTE: SEE UTILITY PLANS ON SHEETS 121 TO 141 FOR DISPOSITION OF EXISTING AND PROPOSED UTILITIES SHOWN IN STREETSCAPE PLANS

LEGEND

- EXISTING TREE TO REMAIN
- STREET TREE
- SMALL TREE / FLOWERING TREE
- LOAM AND SEED
- PAVER TYPE A (NON WALKABLE) (GRANITE COBBLE PATTERN)
- PAVER TYPE B (WALKABLE) (RUNNING BOND PATTERN)
- PAVER TYPE C (WALKABLE) (SEE PLAN FOR PATTERN)
- PROP. CEM. CONC. SIDEWALK/ SHARED-USE PATH/DRIVEWAY
- PROP. CEM. CONC. WHEELCHAIR RAMP
- PROP. GRASSES/PERENNIALS
- ALUMINUM FENCE
- PERMEABLE TREE SURROUND SURFACE
- BIKE RACK
- BOLLARD
- GRANITE SEAT WALL WITH SLOTTED BIKE RACK
- SQUARE GRANITE SEAT WITH UNDERMOUNT LIGHTING
- SITE BENCH
- TRASH RECEPTACLE
- STREET LIGHT WITH HANDHOLE
- PEDESTRIAN LEVEL LIGHTING
- STREET LIGHT WITH PAVER BANDING
- CATENARY LIGHT POST
- CATENARY LIGHTING
- TREE UPLIGHTING

N

NAD 83

BEAUMONT STREET (PUBLIC)

LIMIT OF WORK
STA. 200+90.00
N 2858422.6534
E 368156.1247

PROJECT LIMIT
STA 201+00.00

200+00

201

202

203

204

205 PC +05.16

206 PT +79.07

207

PT +43.85

250+00

PC +88.91

PT +33.82

PC +47.43

PRC +80.63

251

PT +22.94

252

BELMONT AVENUE (PUBLIC)

BURLINGTON STREET (PUBLIC)

PROP. STREET TREE TYP.

PROP. LOAM & SEED TYP.

PROP. CEM. CONC. SIDEWALK

PROP. GRAN. CURB

PROP. STREET TREE WITH PERMEABLE TREE SURROUND SURFACE (TYP.)

EXISTING TREE TO REMAIN TYP.

PROP. STREET LIGHT TYP.

PROP. STREET LIGHT WITH PAVER BANDING TYP.

PROP. FLUSH GRAN. EDGING TYP.

PROP. PAVERS TYPE A

PROP. CEM. CONC. SIDEWALK TYP.

PROP. PAVERS TYPE A

PROP. CEM. CONC. WALK TO MEET LINE AND GRADE OF EXISTING WALKWAY

PROP. CEM. CONC. SIDEWALK TYP.

PROP. CEM. CONC. SIDEWALK TYP.

PROP. STREET TREE WITH PERMEABLE TREE SURROUND SURFACE (TYP.)

PAVER BANDING TYP.

PROP. PAVERS TYPE C (RUNNING BOND PATTERN)

CONTINUED ON SHEET NO. 208

CONTINUED ON SHEET NO. 206

1922 CITY LAYOUT

BENCHMARK: PUNCH MARK BOLT OF HYDRANT EL=189.81

NGUYEN HUNG & PHONG PHAM
BK/PG 21604/107
Map ID: 012350278
461 BELMONT AV

PADAM GAJMBER & SHOVA GAJMER & DAMBER BISWA & SUBASH LUHAGUN
BK/PG 24882/192
Map ID: 012350276
463-465 BELMONT AV

CHARLES R LYONS
BK/PG 06614/1
Map ID: 012350274
467-469 BELMONT AV

NALANI CAPITAL LLC
BK/PG 24840/148 (PARCEL 6)
Map ID: 012350272
BELMONT AV

NALANI CAPITAL LLC
BK/PG 24840/148 (PARCEL 7)
Map ID: 012350271
BELMONT AV

BELMONT BURLINGTON LLC
BK/PG 22243/6
Map ID: 012350270
(PARCEL 1)
483 BELMONT AV

"RESERVE"
BELMONT BURLINGTON LLC
BK/PG 22243/6
Map ID: 021000004
(PARCEL 21)
BURLINGTON ST

ANTONIO CALVANESE
BK/PG 20990/150
Map ID: 021000006
29 BURLINGTON ST

SALVATORE O CIROSTA
BK/PG 20226/327
Map ID: 021000007
24 BURLINGTON AV

FREEDOM PROPERTY GROUP LLC
BK/PG 20116/578
Map ID: 031000077
368 DICKINSON ST

ANTHONY L SANTANIELLO
07357/0103
Map ID: 021000012
BURLINGTON ST

ANTHONY L SANTANIELLO
BK/PG 08324/0158
Map ID: 021000013
21 BURLINGTON ST

BRANDON PARRY & KRISTEN TRUST
BK/PG 23906/238
Map ID: 012350267
497 BELMONT AVE

ISABEL LUCERO-MARTINEZ
BK/PG 24598/578
Map ID: 012350265
501 BELMONT AV

509 BELMONT INC
Map ID: 012350263
509 BELMONT AV

LIANG MIN & QING ZHANG
PG 21058/470
ID: 012350280
BELMONT AV

MARK: PUNCH MARK OF HYDRANT
3.24

MARTHA ALVARDO
BK/PG 16373/0237
Map ID: 012350092
450 BELMONT AV

SAGE HOME BUILDERS LLC
BK/PG 22895/261
Map ID: 012350094
462 BELMONT AV

NALANI CAPITAL LLC
BK/PG 24840/148 (PARCEL 4)
Map ID: 012350095
BELMONT AV

NALANI CAPITAL LLC
BK/PG 24840/148 (PARCEL 3)
Map ID: 012350097
BELMONT AV

NALANI CAPITAL LLC
BK/PG 24840/148 (PARCEL 2)
Map ID: 012350099
BELMONT AV

NALANI CAPITAL LLC
BK/PG 24840/148 (PARCEL 1)
Map ID: 012350101
486-494 BELMONT AV

NALANI CAPITAL LLC
BK/PG 24840/148 (PARCEL 5)
Map ID: 012350103
BELMONT AV

CUMBERLAND FARMS INC
BK/PG 06101/0415
Map ID: 112800
470 SUMNER AV

0 20 50 100

SCALE: 1" = 20'

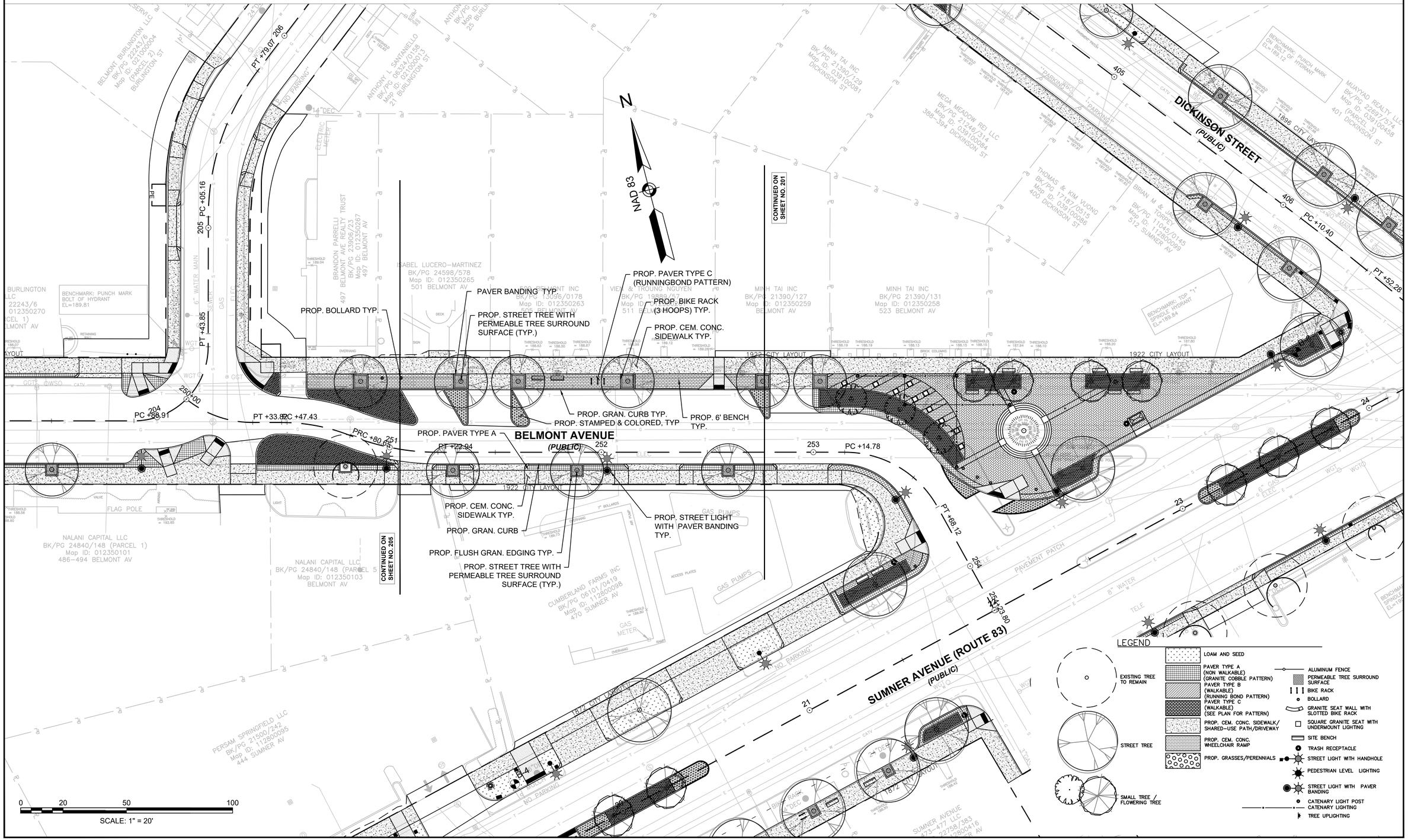
20121457A70_LND01.DWG Plotted on 5-May-2023 3:42 PM

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXX(XXX)X	206	358
	PROJECT FILE NO.	608717	

STREETSCAPE PLANS

NOTE: SEE UTILITY PLANS ON SHEETS 121 TO 141 FOR DISPOSITION OF EXISTING AND PROPOSED UTILITIES SHOWN IN STREETSCAPE PLANS



0 20 50 100
SCALE: 1" = 20'

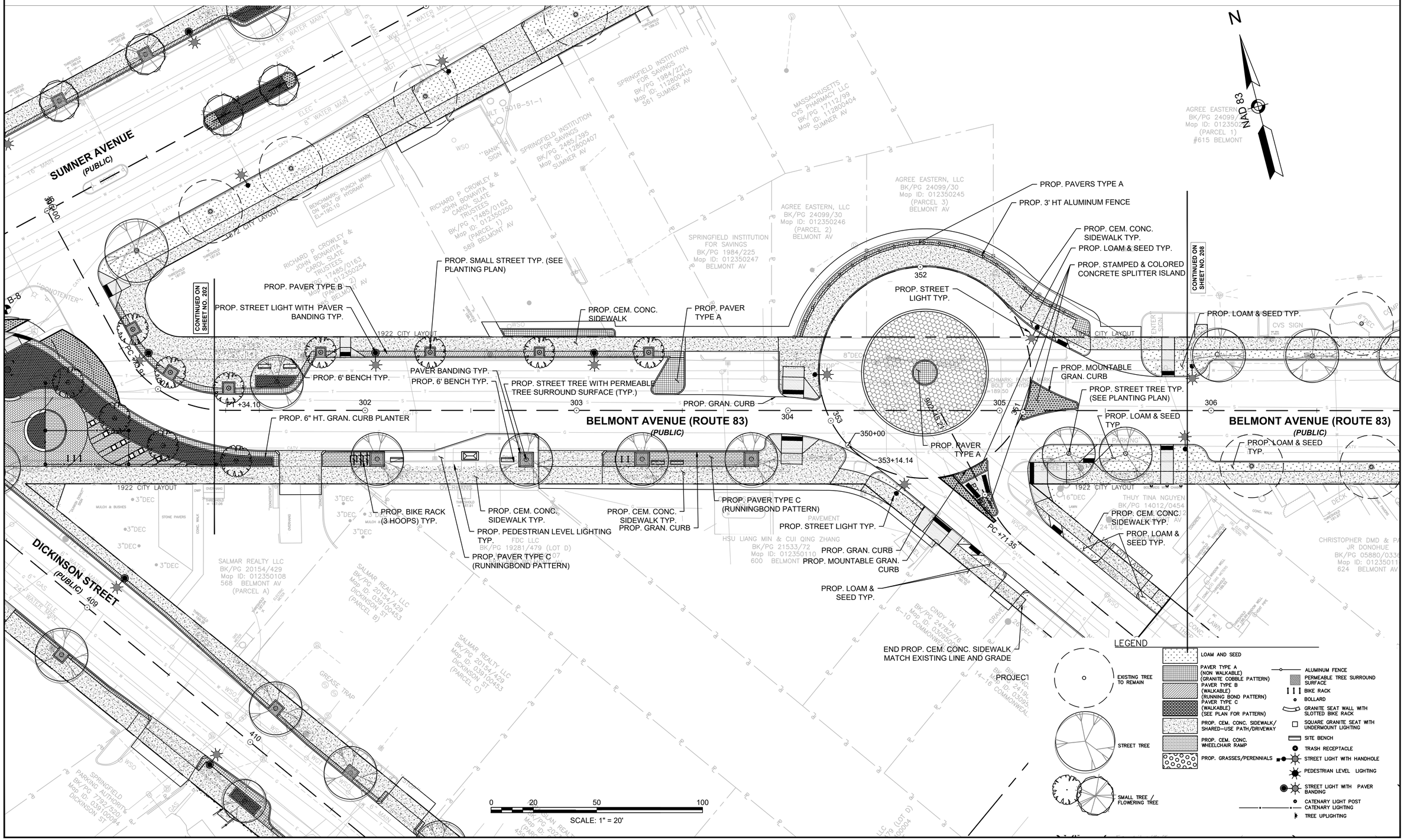
20121457A70_LND01.DWG Plotted on 5-May-2023 3:42 PM

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	207	358
	PROJECT FILE NO. 608717		

STREETSCAPE PLANS

NOTE: SEE UTILITY PLANS ON SHEETS 121 TO 141 FOR DISPOSITION OF EXISTING AND PROPOSED UTILITIES SHOWN IN STREETSCAPE PLANS



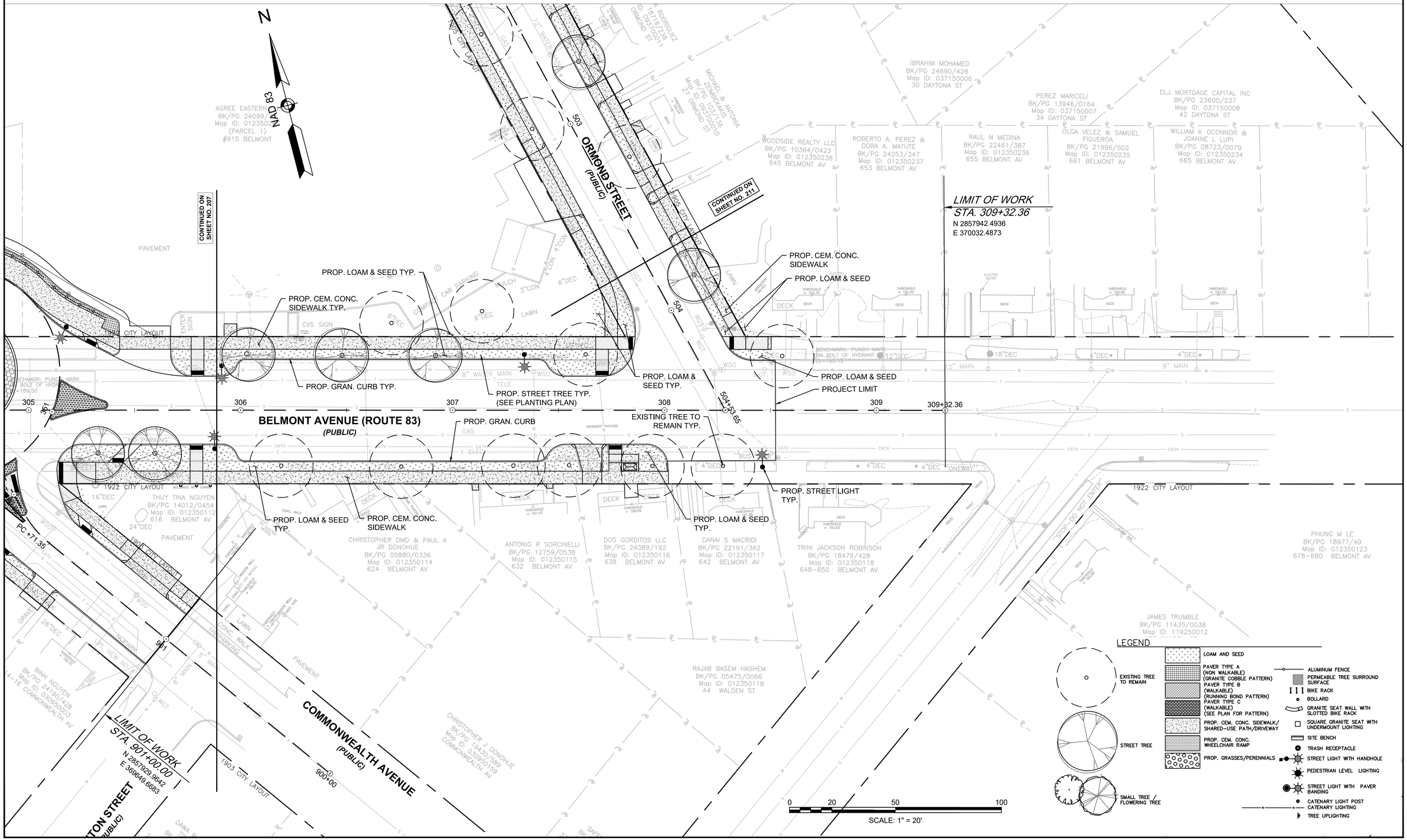
20121457A70_LND01.DWG Plotted on 5-May-2023 3:43 PM

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	208	358
	PROJECT FILE NO. 608717		

STREETSCAPE PLANS

NOTE: SEE UTILITY PLANS ON SHEETS 121 TO 141 FOR DISPOSITION OF EXISTING AND PROPOSED UTILITIES SHOWN IN STREETSCAPE PLANS



20121457A70_LND01.DWG Plotted on 5-May-2023 3:43 PM

NOTE: SEE UTILITY PLANS ON SHEETS 121 TO 141 FOR DISPOSITION OF EXISTING AND PROPOSED UTILITIES SHOWN IN STREETSCAPE PLANS

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXX(XXX)X	209	358
	PROJECT FILE NO. 608717		

STREETSCAPE PLANS

20121457A70_LND01.DWG Plotted on 5-May-2023 3:43 PM

LIMIT OF WORK
STA. 400+80.47
N 2858716.8242
E 368671.8197

GRENADA TERRACE (PUBLIC)

DICKINSON STREET (PUBLIC)

BURLINGTON STREET (PUBLIC)

BEGIN PROP. GRAN. CURB

MEET LINE AND GRADE OF EX. SIDEWALK

PROP. LOAM & SEED TYP

PROP. CEM. CONC. SIDEWALK

PROP. STREET TREE TYP. (SEE PLANTING PLANS)

PROP. LOAM & SEED TYP.

PROP. PAVERS TYPE A

PROP. GRAN. CURB

PROP. STREET TREE WITH PERMEABLE TREE SURROUND SURFACE (TYP.)

PROP. STREET LIGHT WITH PAVER BANDING TYP.

PROP. PAVERS TYPE C (RUNNINGBOND PATTERN)

PROP. CEM. CONC. WALK AT DRIVEWAY

PROP. STREET LIGHT (TYP)

PROP. SMALL STREET TREE WITH PERMEABLE TREE SURROUND SURFACE (TYP.)

BENCHMARK: PUNCH MARK ON BOLT OF HYDRANT EL=189.12

CONTINUED ON SHEET NO. 202

CONTINUED ON SHEET NO. 205

PC +80.47 PT +46.60 PC +10.40 PT +52.28 PT +79.07

HOLY NAME CATHOLIC ASSOCIATION BK/PG 2029/278 Map ID: 039100474 DICKINSON ST

IRENE A FONTAINE BK/PG 07687/499 Map ID: 060600038 17 GRENADA TERRACE

FOREST ORCHARD LLC BK/PG 24835/469 Map ID: 039100468 371 DICKINSON ST

VU SAM LAP & KIM CHAM TANG TRUSTEES BK/PG 11118/0391 Map ID: 039100464 385 DICKINSON ST

MUAYYAD REALTY LLC BK/PG 22697/574 Map ID: 039100461 (PARCEL 1) DICKINSON ST

MUAYYAD REALTY LLC BK/PG 22697/574 Map ID: 039100458 (PARCEL 3) 401 DICKINSON ST

BISWA GANGA BK/PG 20723/335 Map ID: 039100075 350 DICKINSON ST

EURIPIDES PETER PIATTI-RIOS BK/PG 23787/249 Map ID: 039100076 358 DICKINSON ST

FREEDOM PROPERTY GROUP LLC BK/PG 20116/378 Map ID: 039100077 368 DICKINSON ST

PHUNG M LE BK/PG 20981/46 Map ID: 039100078 DICKINSON ST

PHUNG LE BK/PG 19477/172 Map ID: 039100079 378-380 DICKINSON ST

MINH TAI INC BK/PG 21390/129 Map ID: 039100081 DICKINSON ST

MEGA MEADOW REI LLC BK/PG 21246/314 Map ID: 039100084 388-394 DICKINSON ST

THOMAS & KIM VUONG BK/PG 17187/0515 Map ID: 039100086 400 DICKINSON ST

BRIAN M & JANE LINE TORPEY BK/PG 11045/0145 Map ID: 112800099 512 SUMNER AV

SALVATORE O CIRCOSTA BK/PG 20228/327 Map ID: 021000007 24 BURLINGTON AV

ANTHONY L SANTANIELLO BK/PG 07357/0103 Map ID: 021000012 25 BURLINGTON ST

ANTHONY L SANTANIELLO BK/PG 06324/0158 Map ID: 021000013 21 BURLINGTON ST

ANTONIO CALVANESE BK/PG 20990/150 Map ID: 021000006 20 BURLINGTON ST

MINH TAI INC BK/PG 21390/131 Map ID: 012350258 523 BELMONT AV

MINH TAI INC BK/PG 21390/127 Map ID: 012350259 BELMONT AV

VIEN & TROUNG NGUYEN BK/PG 19889/67 Map ID: 012350261 511 BELMONT AV

509 BELMONT INC BK/PG 13096/0178 Map ID: 012350263 505 BELMONT AV

0 20 50 100
SCALE: 1" = 20'

LEGEND

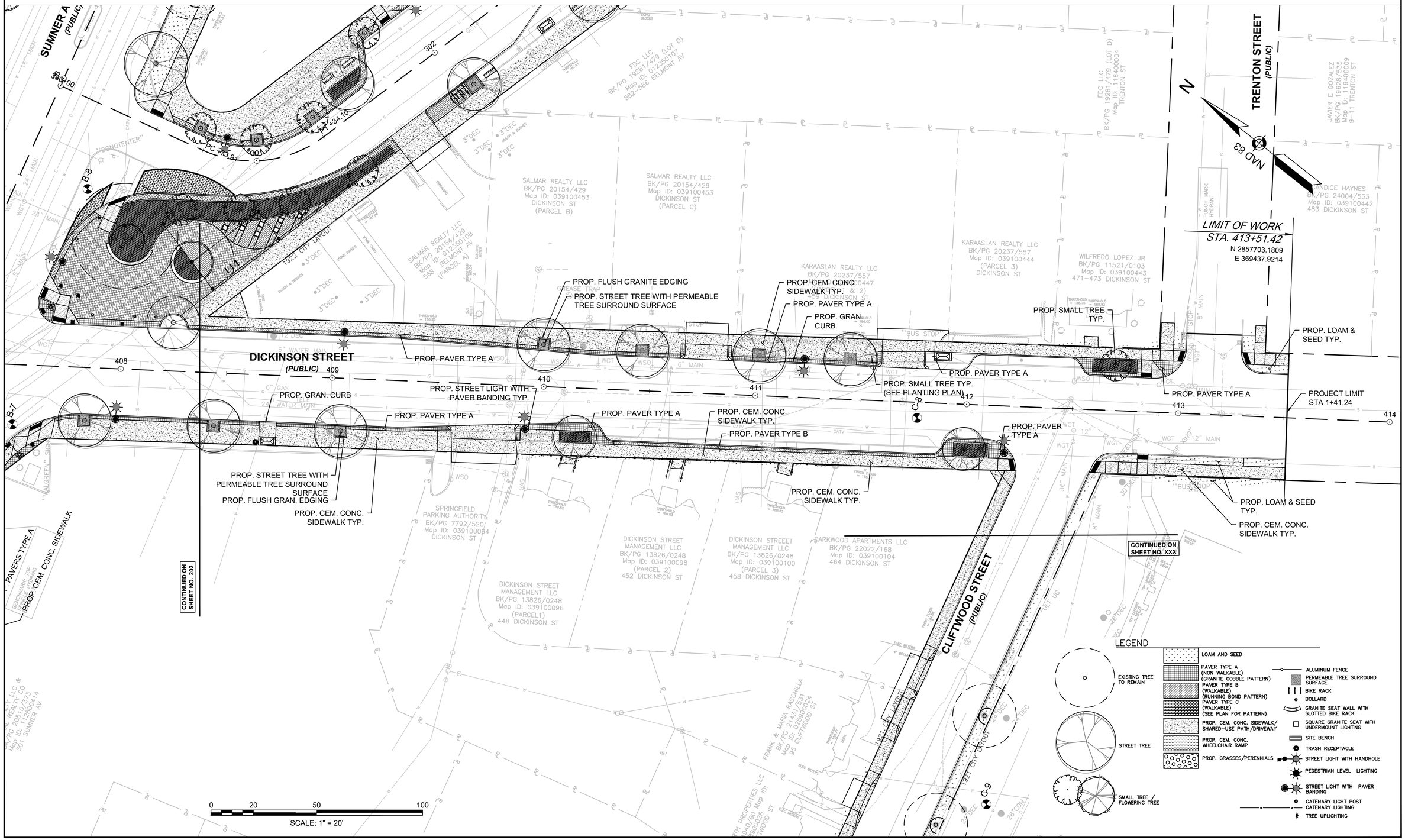
- EXISTING TREE TO REMAIN
- STREET TREE
- SMALL TREE / FLOWERING TREE
- LOAM AND SEED
- PAVER TYPE A (NON WALKABLE) (GRANITE COBBLE PATTERN)
- PAVER TYPE B (WALKABLE) (RUNNING BOND PATTERN)
- PAVER TYPE C (WALKABLE) (SEE PLAN FOR PATTERN)
- PROP. CEM. CONC. SIDEWALK/ SHARED-USE PATH/DRIVEWAY
- PROP. CEM. CONC. WHEELCHAIR RAMP
- PROP. GRASSES/PERENNIALS
- ALUMINUM FENCE
- PERMEABLE TREE SURROUND SURFACE
- BIKE RACK
- BOLLARD
- GRANITE SEAT WALL WITH SLOTTED BIKE RACK
- SQUARE GRANITE SEAT WITH UNDERMOUNT LIGHTING
- SITE BENCH
- TRASH RECEPTACLE
- STREET LIGHT WITH HANDHOLE
- PEDESTRIAN LEVEL LIGHTING
- STREET LIGHT WITH PAVER BANDING
- CATENARY LIGHT POST CATENARY LIGHTING
- TREE UPLIGHTING

NOTE: SEE UTILITY PLANS ON SHEETS 121 TO 141 FOR DISPOSITION OF EXISTING AND PROPOSED UTILITIES SHOWN IN STREETSCAPE PLANS

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	210	358
PROJECT FILE NO.	608717		

STREETSCAPE PLANS



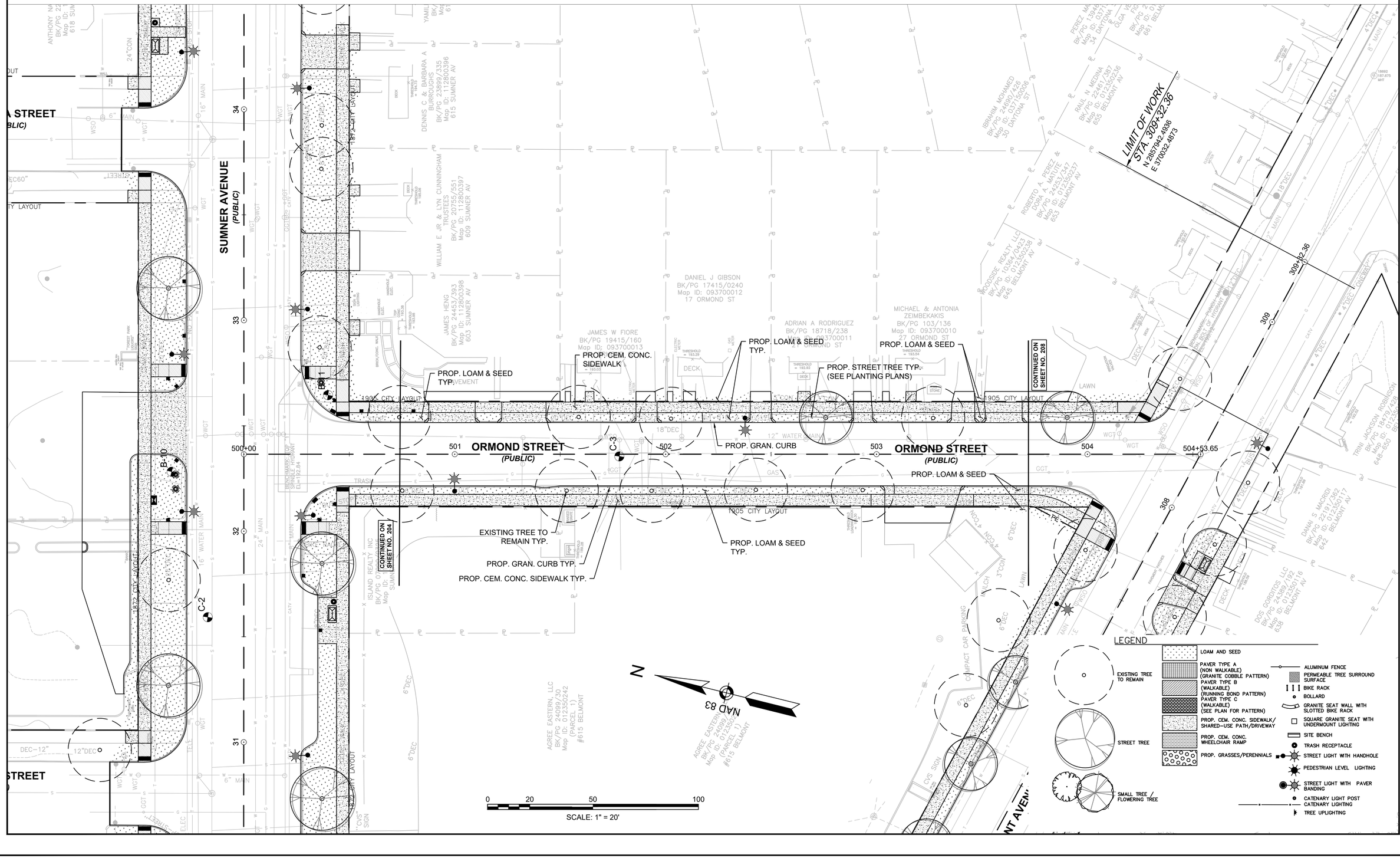
20121457A70_LND01.DWG Plotted on 5-May-2023 3:44 PM

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXX(XXX)X	211	358
	PROJECT FILE NO.	608717	

STREETSCAPE PLANS

NOTE: SEE UTILITY PLANS ON SHEETS 121 TO 141 FOR DISPOSITION OF EXISTING AND PROPOSED UTILITIES SHOWN IN STREETSCAPE PLANS



20121457A70_LND01.DWG Plotted on 5-May-2023 3:44 PM

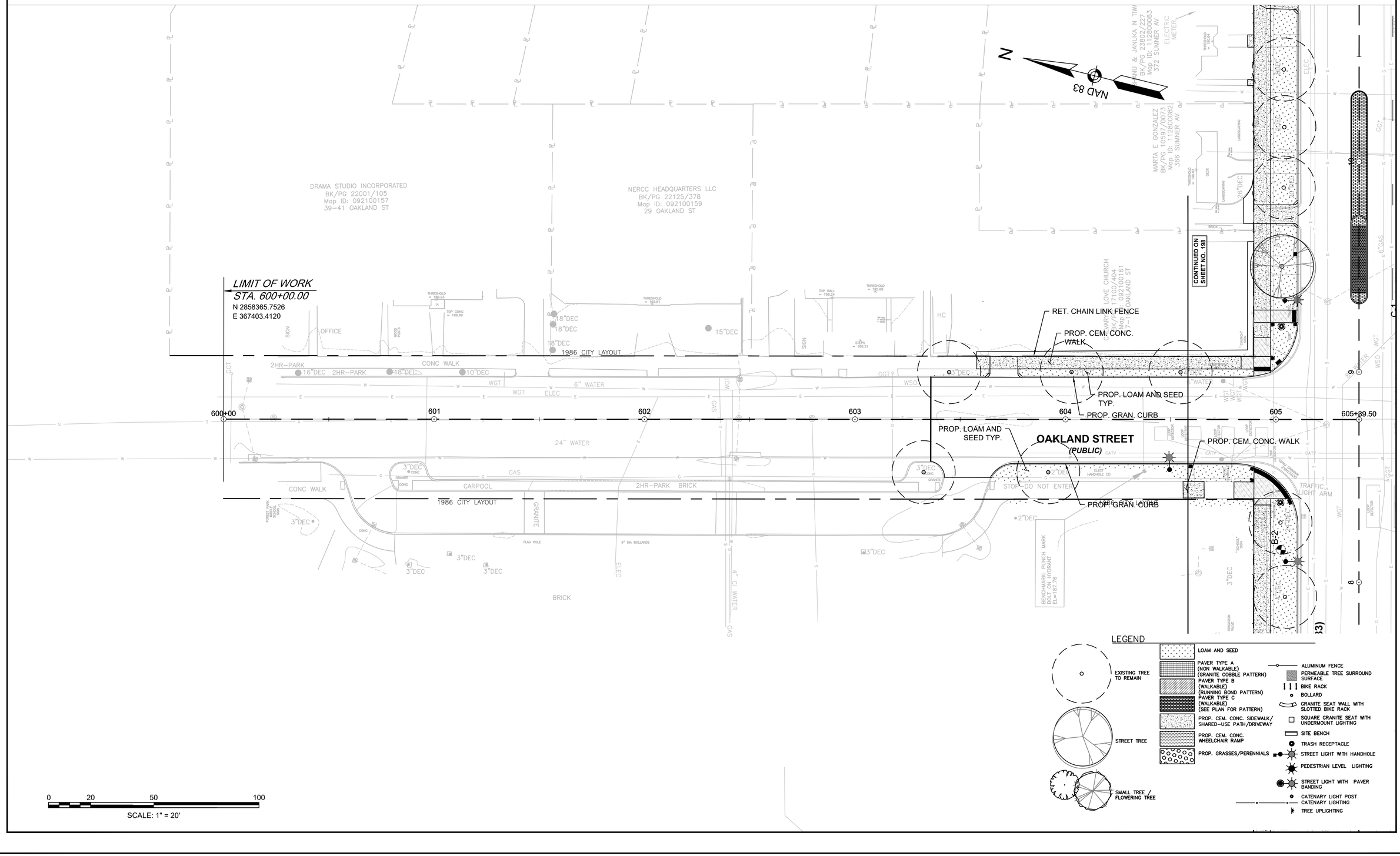
NOTE: SEE UTILITY PLANS ON SHEETS 121 TO 141 FOR DISPOSITION OF EXISTING AND PROPOSED UTILITIES SHOWN IN STREETSCAPE PLANS

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXX(XXX)X	212	358
	PROJECT FILE NO.	608717	

STREETSCAPE PLANS

20121457A70_LND01.DWG Plotted on 5-May-2023 3:44 PM

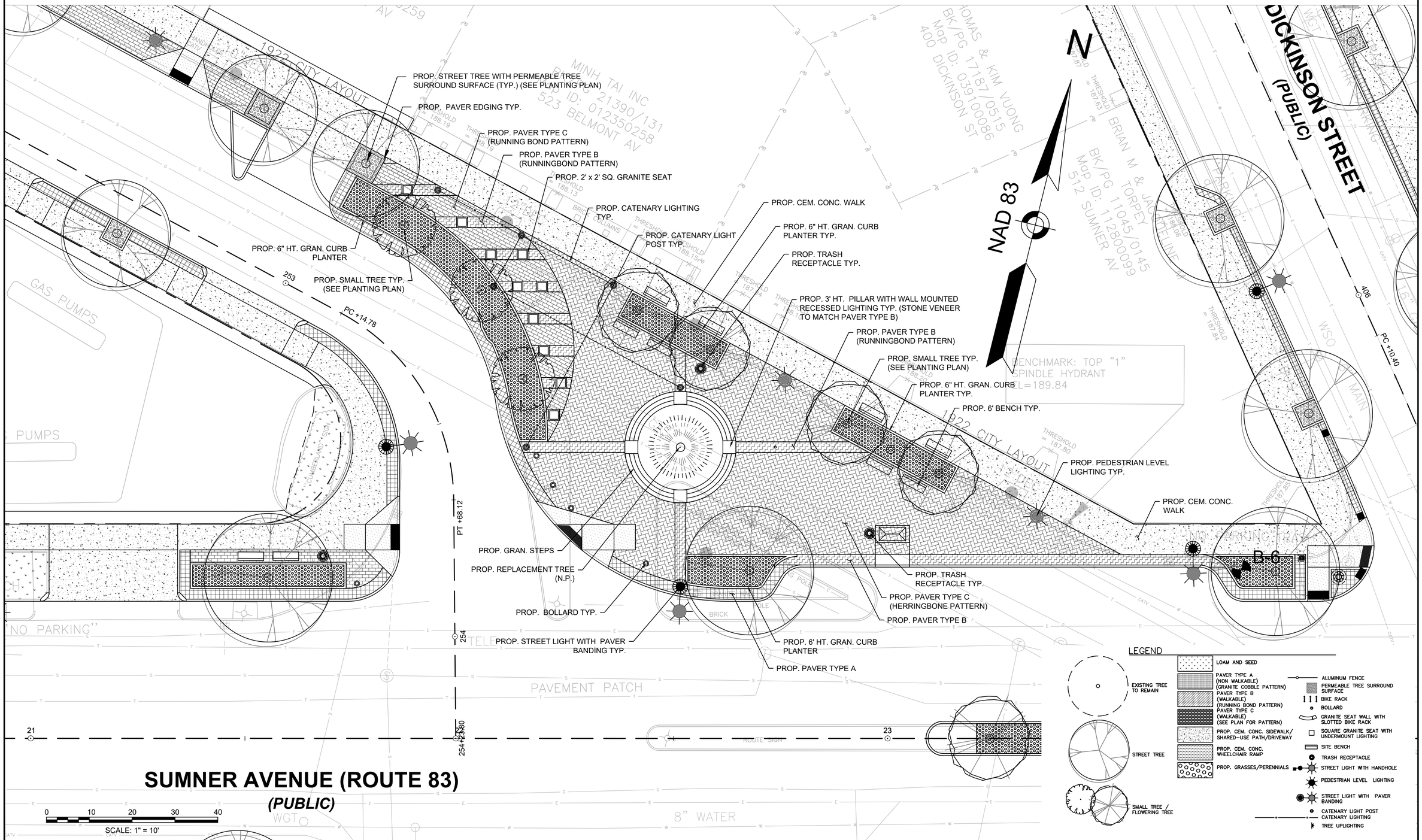


NOTE: SEE UTILITY PLANS ON SHEETS 121 TO 141 FOR DISPOSITION OF EXISTING AND PROPOSED UTILITIES SHOWN IN STREETSCAPE PLANS

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	213	358
PROJECT FILE NO.	608717		

STREETSCAPE PLANS



20121457A70_LND01.DWG Plotted on 5-May-2023 3:45 PM

NOTE: SEE UTILITY PLANS ON SHEETS 121 TO 141 FOR DISPOSITION OF EXISTING AND PROPOSED UTILITIES SHOWN IN STREETSCAPE PLANS

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXX(XXX)X	214	358
	PROJECT FILE NO. 608717		

STREETSCAPE PLANS

SUMNER AVENUE
(PUBLIC)

PROP. PAVER TYPE A TYP.
PROP. PAVER TYPE C TYP. (HERRINGBONE PATTERN)
PROP. BOLLARD TYP.
PROP. STREET LIGHT WITH PAVER BANDING TYP.
PROP 18" HT. GRANITE SEAT WALL
EXISTING SPECIMEN TREE TO REMAIN
B-8
B-7
PROP. TREE UPLIGHTING TYP.
PROP 18" HT. GRANITE SEAT WALL
PROP. PAVER TYPE A
PROP. 6" HT. GRAN. CURB PLANTER
PROP. FLUSH GRAN. EDGING
PROP. STREET TREE
PROP. PAVERS TYPE C
PROP. FLUSH GRANITE CURB
PROP. CATENARY LIGHTING TYP.
PROP. GRAN. CURB
PROP. SMALL TREE TYP. (SEE PLANTING PLAN)
PROP. CEM. CONC. WALK TYP.
PROP. CATENARY LIGHTING POST TYP.
PROP. PAVER TYPE B TYP.
PROP. 2' x 2' SQ. GRANITE SEAT (TYP.)
PROP. PAVER TYPE C TYP. (RUNNING BOND PATTERN)
PROP. 6" HT. GRAN. CURB PLANTER

DICKINSON STREET
(PUBLIC)

N
NAD 83

0 10 20 30 40
SCALE: 1" = 10'

RICHARD P CROWLEY
JOHN BONAVITA &
CAROL SLATE
TRUSTEES
BK/PG 17485/016
Map ID: 01235025
(PARCEL 2)
585 BELMONT AV

LEGEND

- LOAM AND SEED
- PAVER TYPE A (NON WALKABLE) (GRANITE COBBLE PATTERN)
- PAVER TYPE B (WALKABLE) (RUNNING BOND PATTERN)
- PAVER TYPE C (WALKABLE) (SEE PLAN FOR PATTERN)
- PROP. CEM. CONC. SIDEWALK/ SHARED-USE PATH/DRIVEWAY
- PROP. CEM. CONC. WHEELCHAIR RAMP
- PROP. GRASSES/PERENNIALS
- EXISTING TREE TO REMAIN
- STREET TREE
- SMALL TREE / FLOWERING TREE
- ALUMINUM FENCE
- PERMEABLE TREE SURROUND SURFACE
- BIKE RACK
- BOLLARD
- GRANITE SEAT WALL WITH SLOTTED BIKE RACK
- SQUARE GRANITE SEAT WITH UNDERMOUNT LIGHTING
- SITE BENCH
- TRASH RECEPTACLE
- STREET LIGHT WITH HANDHOLE
- PEDESTRIAN LEVEL LIGHTING
- STREET LIGHT WITH PAVER BANDING
- CATENARY LIGHT POST CATENARY LIGHTING
- TREE UPLIGHTING

20121457A70_LND01.DWG Plotted on 5-May-2023 3:45 PM

ELECTRICAL LEGEND

* MOUNTING HEIGHTS SHALL BE AS INDICATED UNLESS SHOWN OTHERWISE ON ELECTRICAL DRAWINGS
* ALL SYMBOLS MAY NOT BE SHOWN ON PLANS

—— E —— (1) 1" (UNLESS OTHERWISE INDICATED) UNDERGROUND ELECTRICAL DIRECT BURIED CONDUIT.

—— D —— (1) 2" (UNLESS OTHERWISE INDICATED) UNDERGROUND TEL/DATA/SECURITY DIRECT BURIED CONDUIT.

HH HANDHOLE.

STUB UP FOR CONDUIT. PROVIDE WEATHERPROOF CAP OR SEAL AS REQUIRED.

J JUNCTION BOX, SIZED PER NEC

UTILITY POLE

PC PHOTO-CELL

ϕ^2 DUPLEX RECEPTACLE, GROUND FAULT CIRCUIT INTERRUPTER TYPE DEVICE, WITH WEATHER PROOF COVER. "2" DENOTES CIRCUIT NUMBER.

ABBREVIATIONS

3R	NEMA 3R RATING
4X	NEMA 4X RATING
A	AMPERES
AWG	AMERICAN WIRE GAUGE
C	CONDUIT
C/B	CIRCUIT BREAKER
CAT	CATALOG
CKT	CIRCUIT
CU	COPPER
DWG	DRAWING
EC	ELECTRICAL CONTRACTOR
G	GROUND
GC	GENERAL CONTRACTOR
GFI	GROUND FAULT INTERRUPTER
HVAC	HEATING, VENTILATION, AIR CONDITIONING CONTRACTOR
KVA	KILOVOLT-AMPERES
KW	KILOWATTS
MCB	MAIN CIRCUIT BREAKER
NEC	NATIONAL ELECTRICAL CODE
NTS	NOT TO SCALE
ø	PHASE
P	POLE
PNL	PANELBOARD
UOI	UNLESS OTHERWISE INDICATED
V	VOLT
W	WATT
WP	WEATHERPROOF
XFMR	TRANSFORMER

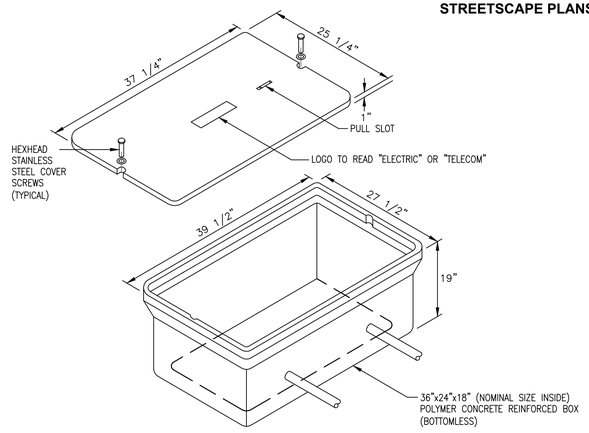
GENERAL NOTES

1. ALL ELECTRICAL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE AND THE LATEST LOCAL AND STATE REQUIREMENTS.
2. ADDITIONAL JUNCTION BOXES AND HANDHOLES SHALL BE FURNISHED AND INSTALLED AS REQUIRED.
3. ALL CONDUITS SHALL CONTAIN A GREEN SAFETY GROUND WIRE. BOND ALL PANELS, CABINETS, ENCLOSURES, CONDUITS, ETC., AS REQUIRED.
4. WHERE CONDUITS ARE NOT IDENTIFIED, THEY SHALL BE 3/4"WITH 2#12, 1#12 GROUND.
5. RECEPTACLE, LIGHT FIXTURE AND POWER BRANCH CIRCUIT WIRING MAY NOT BE SHOWN BUT SHALL BE PROVIDED AS REQUIRED. MINIMUM WIRING SHALL BE 3/4"C-2#12, 1#12 GROUND. NO MORE THAN THREE PHASES MAY BE COMBINED IN A SINGLE HOMERUN AND EACH PHASE SHALL BE PROVIDED WITH AN INDIVIDUAL NEUTRAL.
6. BRANCH CIRCUIT WIRING SHALL BE MINIMUM 3/4"C-2#12, 1#12 GND. BRANCH CIRCUIT WIRING AND HOMERUNS WITH LENGTHS EXCEEDING 90 FEET SHALL USE #10 AWG, THOSE EXCEEDING 140 FEET SHALL USE #8 AWG CONDUCTORS, UNLESS OTHERWISE INDICATED.
7. GREEN GROUND CONDUCTOR NOT INDICATED BUT SHALL BE INCLUDED IN EACH RACEWAY. SIZE SHALL BE #12AWG UNLESS INDICATED OTHERWISE.
8. WIRING IS SHOWN ON DRAWINGS ONLY FOR SPECIFIC ROUTES OR SPECIAL CONDITIONS.
9. WIRING AND CONDUIT SHALL BE REQUIRED BETWEEN ALL OUTLETS INDICATED WITH CIRCUIT NUMBERS AND PANEL DESIGNATIONS.
10. ALL SWITCH CONTROLS SHALL BE PROVIDED WITH WIRING AND CONDUIT AS REQUIRED.
11. ALTHOUGH ALL BRANCH CIRCUIT WIRING AND CONDUIT IS NOT SHOWN, IT IS THE INTENT OF THESE DOCUMENTS THAT A COMPLETE BRANCH CIRCUIT WIRING SYSTEM BE INSTALLED.
12. A GREEN GROUNDING CONDUCTOR SHALL BE RUN WITH ALL CIRCUITS. VERIFY CONDUIT SIZE TO ENSURE IT CAN ACCOMMODATE ALL PHASE, NEUTRAL AND GROUND CONDUCTORS.
13. PROVIDE A NEUTRAL CONDUCTOR TO ALL LIGHTING SWITCH BOXES PER NEC ARTICLE 404.2.
14. ALL 15A AND 20A, 125V RECEPTACLES SHALL BE GFCI PROTECTED PER NEC ARTICLE 210.8(B).

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	215	358
	PROJECT FILE NO. 608717		

STREETSCAPE PLANS - PLAZA LIGHTING



NOTE:
1. PROVIDE CONDUIT HUBS AS FOR ALL CONDUIT PENETRATIONS REQUIRED.
2. ELECTRIC HANDHOLE COVER TO BE STAMPED "CITY DPW LIGHTING"
3. CONFIGURATION OF CONDUIT PENETRATIONS PER FIELD REQUIREMENTS.

1 SITE HANDHOLE "A" DETAIL
NOT TO SCALE

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	ITEM NUMBER	LAMPS				REMARKS
			NUMBER	TYPE	VOLTS	WATTS	
A	CANTANERY LIGHT SYSTEM FIXTURE	823.01*	MULTI	LED	120	60	
B	PILLAR MOUNTED RECESSED LIGHT FIXTURE	686.*	8	LED	120	12	
C	GROUND MOUNTED TREE UPLIGHT	821.106*	4	LED	120	13	

LIGHTING FIXTURE NOTES:

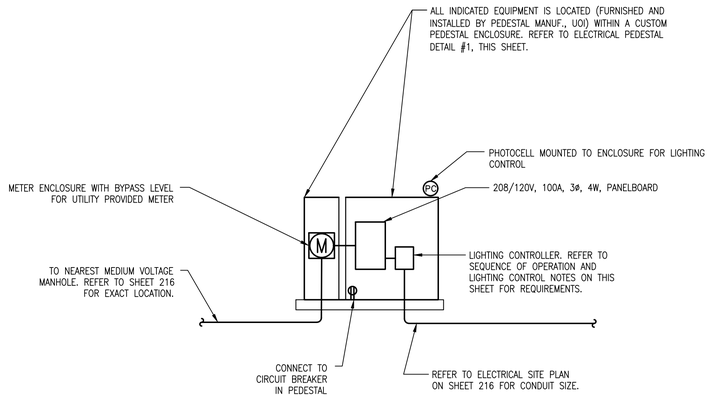
1. PROVIDE ACCESSORIES AND MOUNTING HARDWARE FOR ALL FIXTURES.
2. COLORS SHALL BE VERIFIED BY OWNER REPRESENTATIVE PRIOR TO PURCHASE.
3. COORDINATE EXACT LOCATION OF POLES AND HAND HOLES WITH CIVIL DRAWINGS.

LIGHTING CONTROL SEQUENCE OF OPERATION

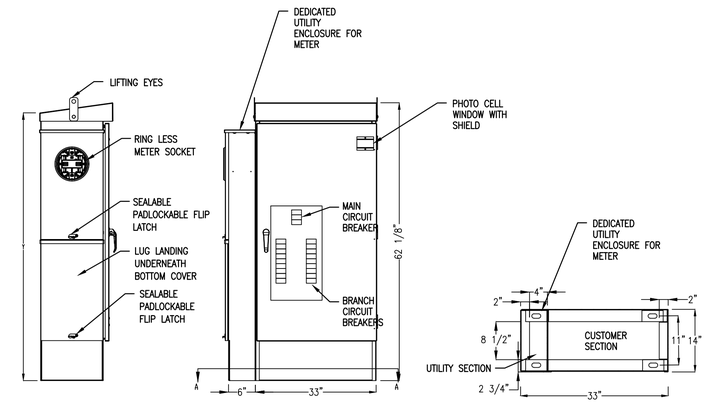
1. ALL SITE LIGHTING SHALL BE AUTOMATICALLY TURNED OFF WHEN DAYLIGHT IS PRESENT VIA PHOTOCELL.
2. ALL SITE LIGHTING SHALL BE TURNED ON VIA PHOTOCELL.
3. ALL SITE LIGHTING SHALL HAVE THE TOTAL WATTAGE OF FIXTURES AUTOMATICALLY REDUCED BY APPROXIMATELY 50% VIA SELECTIVELY SWITCHING OFF LUMINAIRES FROM MIDNIGHT TO 6AM. REFER TO SITE PLAN SL101 FOR SWITCH LEG CONFIGURATION.

SITE LIGHTING CONTROLS

1. ALL SITE LIGHTING SHALL BE CONTROLLED BY A TIME CLOCK CAPABLE OF BEING PROGRAMMED FOR 7 DAYS AND SET FOR 7 DIFFERENT DAYS PER WEEK.
2. CONTROLS SHALL ALLOW FOR AUTOMATIC HOLIDAY SETBACK FEATURE.
3. BASIS OF DESIGN: DIGITAL CONTROLS, ELC SERIES, MINIMUM OF 10 SWITCH ZONES SHALL BE PURCHASED AND INSTALLED IN ELECTRICAL PEDESTAL BY MANUFACTURER OF PEDESTAL.



3 ELECTRICAL RISER DIAGRAM
NOT TO SCALE



LEFT SIDE VIEW FRONT SIDE VIEW TOP VIEW

NOTE:
LIGHTING LOAD CENTER CABINET INCLUDES THE FOLLOWING:
1. INTEGRATED LIGHTING CONTROL (REFER TO SEQUENCE OF OPERATION AND LIGHTING CONTROL NOTES ON DWG. E001 FOR REQUIREMENTS).
2. 120/208V, 3ϕ, 4W, 100A RATED PANELBOARD
3. RAINPROOF – TYPE 3R
4. (G90) STEEL ENCLOSURE
5. PAINTED ANSI 61 GRAY
6. UL-LISTED
7. ENCLOSED INDUSTRIAL CONTROL – SUITABLE FOR USE AS SERVICE EQUIPMENT
8. SEPARATE ENCLOSURE FOR METER SOCKET AND SERVICE

2 LIGHTING LOAD CENTER CABINET
NOT TO SCALE

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SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	216	358
	PROJECT FILE NO. 608717		

STREETSCAPE PLANS - PLAZA LIGHTING

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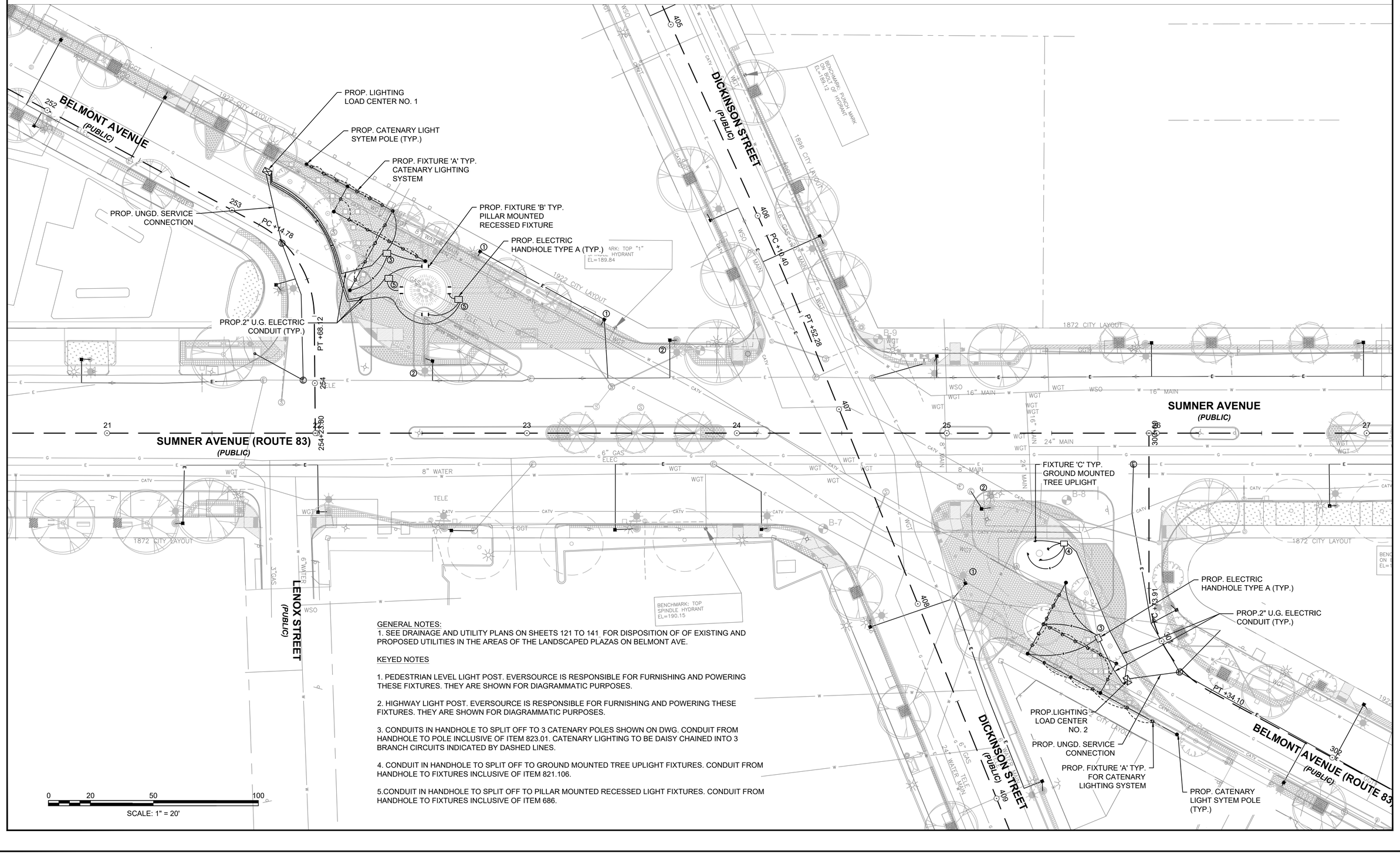

GENERAL NOTES:
1. SEE DRAINAGE AND UTILITY PLANS ON SHEETS 121 TO 141 FOR DISPOSITION OF OF EXISTING AND PROPOSED UTILITIES IN THE AREAS OF THE LANDSCAPED PLAZAS ON BELMONT AVE.

KEYED NOTES

1. PEDESTRIAN LEVEL LIGHT POST. EVERSOURCE IS RESPONSIBLE FOR FURNISHING AND POWERING THESE FIXTURES. THEY ARE SHOWN FOR DIAGRAMMATIC PURPOSES.

2. HIGHWAY LIGHT POST. EVERSOURCE IS RESPONSIBLE FOR FURNISHING AND POWERING THESE FIXTURES. THEY ARE SHOWN FOR DIAGRAMMATIC PURPOSES.

3. CONDUITS IN HANDHOLE TO SPLIT OFF TO 3 CATENARY POLES SHOWN ON DWG. CONDUIT FROM HANDHOLE TO POLE INCLUSIVE OF ITEM 823.01. CATENARY LIGHTING TO BE DAISY CHAINED INTO 3 BRANCH CIRCUITS INDICATED BY DASHED LINES.

4. CONDUIT IN HANDHOLE TO SPLIT OFF TO GROUND MOUNTED TREE UPLIGHT FIXTURES. CONDUIT FROM HANDHOLE TO FIXTURES INCLUSIVE OF ITEM 821.106.

5.CONDUIT IN HANDHOLE TO SPLIT OFF TO PILLAR MOUNTED RECESSED LIGHT FIXTURES. CONDUIT FROM HANDHOLE TO FIXTURES INCLUSIVE OF ITEM 686.

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	217	358
PROJECT FILE NO.	608717		

CONSTRUCTION DETAILS

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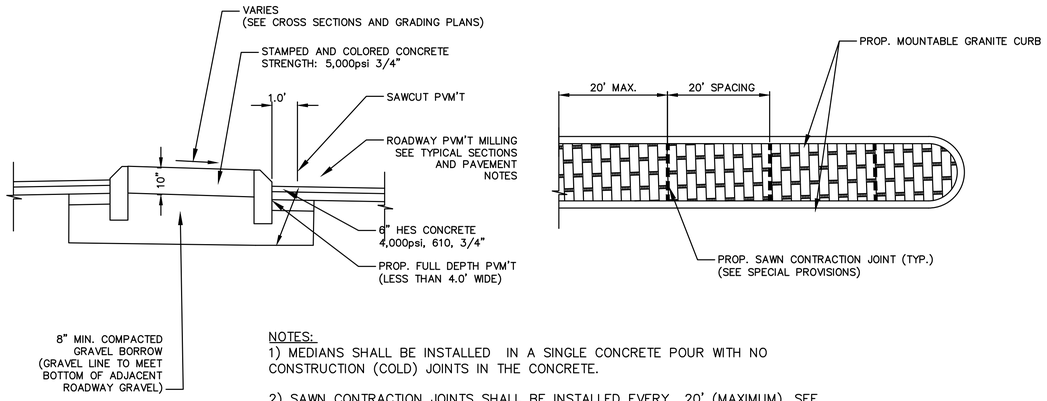
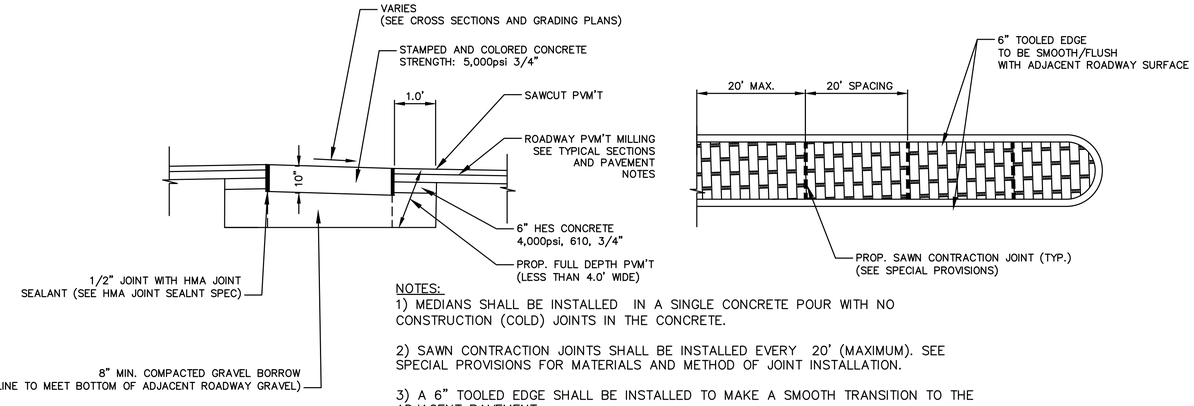


NOTES:
1) MEDIANS SHALL BE INSTALLED IN A SINGLE CONCRETE POUR WITH NO CONSTRUCTION (COLD) JOINTS IN THE CONCRETE.

2) SAWN CONTRACTION JOINTS SHALL BE INSTALLED EVERY 20' (MAXIMUM). SEE SPECIAL PROVISIONS FOR MATERIALS AND METHOD OF JOINT INSTALLATION.

1 STAMPED & COLORED CONCRETE MEDIAN
SCALE: N.T.S.

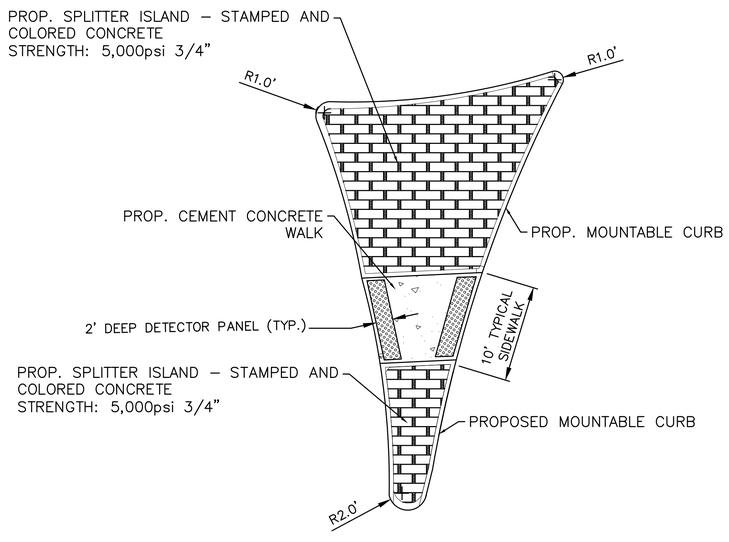


NOTES:
1) MEDIANS SHALL BE INSTALLED IN A SINGLE CONCRETE POUR WITH NO CONSTRUCTION (COLD) JOINTS IN THE CONCRETE.

2) SAWN CONTRACTION JOINTS SHALL BE INSTALLED EVERY 20' (MAXIMUM). SEE SPECIAL PROVISIONS FOR MATERIALS AND METHOD OF JOINT INSTALLATION.

3) A 6" TOOLED EDGE SHALL BE INSTALLED TO MAKE A SMOOTH TRANSITION TO THE ADJACENT PAVEMENT

2 FLUSH STAMPED & COLORED CONCRETE MEDIAN
SCALE: N.T.S.



3 SPLITTER ISLAND
SCALE: N.T.S.



NOTES:
1. PROVIDE CONTROL JOINTS SPACED EVERY 10' ON CENTER.
2. PROVIDE EXPANSION JOINTS AT ALL RIGID OBJECTS.
3. MINIMUM WIDTH OF PATTERN TO BE 1'.

4 STANDARD STAMPED COLORED CONCRETE
SCALE: N.T.S.

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	218	358
PROJECT FILE NO.	608717		

CONSTRUCTION DETAILS

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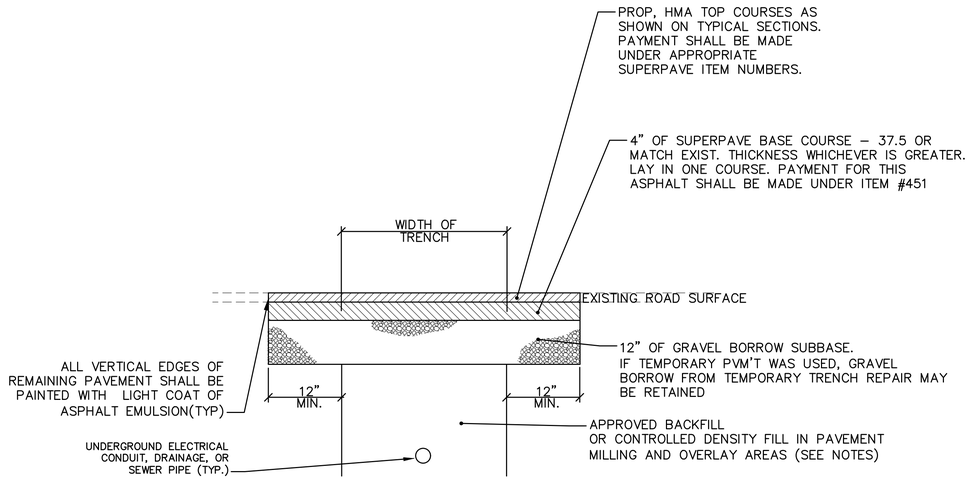


NOTES:
OVERLAY AREAS: THE TRENCH SHALL BE REPAIRED TO THE TOP OF THE BASE COURSE. THE TOP COURSES SHALL BE PLACED WITH OVERLAY OF THE ROADWAY

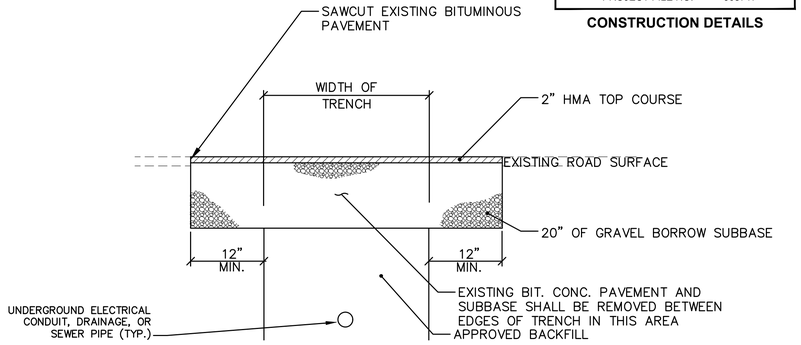
ROADWAY TRENCHING OUTSIDE OF FULL DEPTH AND OVERLAY: THE TRENCH SHALL BE REPAIRED WITH TOP COURSES INSTALLED WITH THE BASE COURSE.

CONTROLLED DENSITY FILL MAY BE USED IN LIEU OF APPROVED BACKFILL IN PAVEMENT MILLING AND OVERLAY AREAS WHERE NORMAL BACKFILL CANNOT PLACED OR TO REDUCE AMOUNT OF TIME NEED TO BACKFILL THE TRENCH. USE OF CONTROLLED DENSITY FILL TO BACKFILL TRENCHES SHALL BE APPROVED BY ENGINEER.

PERMANENT ASPHALT SHALL BE PAID FOR UNDER ITEM #451.

5 PERMANENT PAVEMENT TRENCH REPAIR IN ROADWAYS

SCALE: N.T.S.



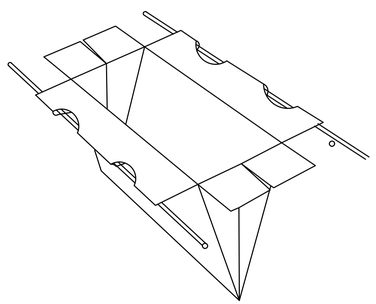
NOTES:
THE TEMPORARY PAVEMENT TRENCH REPAIR SHALL BE USED DURING THE TIME BETWEEN COMPLETION OF THE UTILITY CONSTRUCTION AND CONSTRUCTION OF THE PROPOSED ROADWAY PAVEMENT STRUCTURE OR PERMANENT PAVEMENT TRENCH REPAIR.

TEMPORARY ASPHALT SHALL BE PAID FOR UNDER ITEM #472

6 TEMPORARY PAVEMENT TRENCH REPAIR

SCALE: N.T.S.

NOTE: MOUNTABLE GRANITE CURB IS GENERALLY INTENDED TO BE USED IN RAISED MEDIANS WITHIN SUMNER AVE. AND AT THE APPROACH SPLITTER ISLANDS AT ROUNDABOUTS. SEE CONSTRUCTION PLANS FOR LOCATIONS.

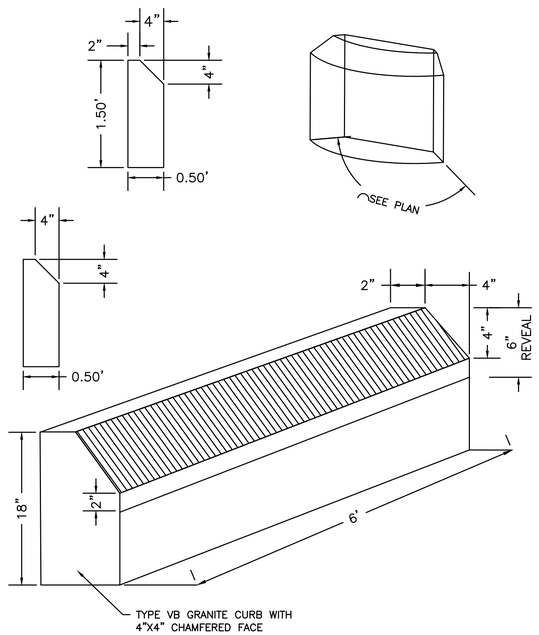


NOTES:

1. SIZED TO FIT ANY SIZE OR SHAPE CATCH BASIN.
2. ALL SEAMS DOUBLE STITCHED.
3. PERMEABILITY - REGULAR FLOW SILTSACK - 40 gal./min./sq. ft.
   HI - FLOW SILTSACK - 200 gal./min./sq. ft.

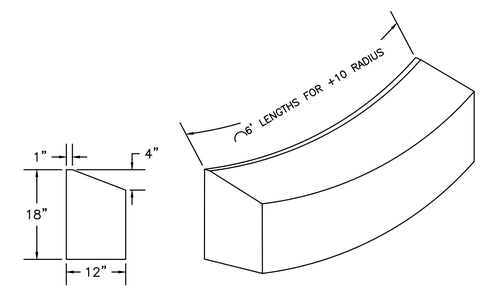
7 CATCH BASIN SILT SACK

SCALE: N.T.S.



8 MOUNTABLE GRANITE CURB

SCALE: N.T.S.



9 TRAVERSABLE GRANITE CURB

SCALE: N.T.S.

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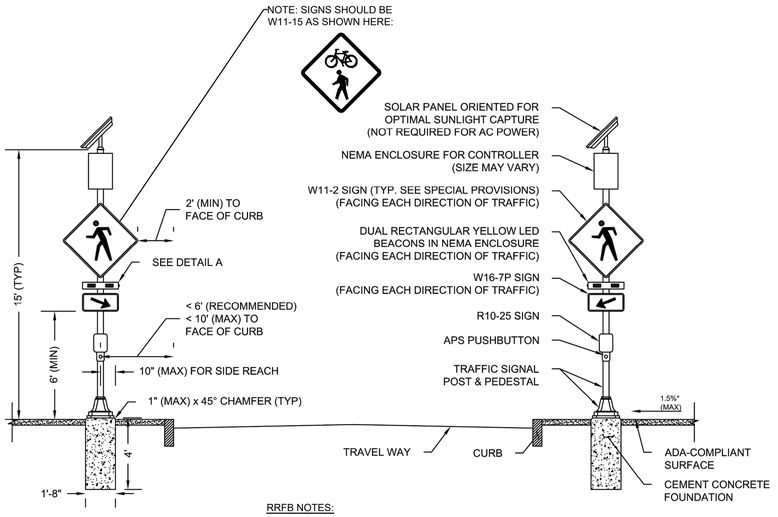


RRFB NOTES:

1) PAYMENT FOR PRECAST FOUNDATION INCLUSIVE UNDER ITEM 824.221 & 824.222
2) ALL POSTS, BRACKETS, AND HARDWARE SHALL BE FACTORY COATED BLACK.

NOTES:

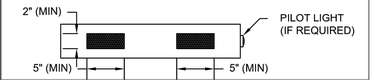
1. CROSSWALK AND ADA-COMPLIANT RAMPS NOT SHOWN. SEE PLANS FOR LOCATIONS.
2. REFER TO THE SPECIAL PROVISIONS FOR SIGN DIMENSIONS.
3. ALL CONDUIT, PULL BOXES, SERVICE CONNECTIONS, AND EQUIPMENT GROUNDING REQUIRED FOR AC POWER IS NOT SHOWN IN THIS DETAIL AND SHALL BE PAID FOR SEPARATELY UNDER THEIR RESPECTIVE PAY ITEMS.
4. ACCESS TO ALL PEDESTRIAN ACTUATED CONTROLS SHALL BE ADA/AAB COMPLIANT.
5. *0.5% CONSTRUCTION TOLERANCE FOR CROSS-SLOPE.

MAJOR ITEMS LIST

- 2 CEMENT CONCRETE FOUNDATIONS PER 812.30.1
- 2 15' TRAFFIC SIGNAL POSTS & PEDESTALS
- 2 APS PUSHBUTTON SYSTEMS
- 4 DUAL RECTANGULAR YELLOW LED BEACONS IN NEMA ENCLOSURES
- 2 R10-25 SIGNS
- 4 W11-2 SIGNS
- 2 W16-7PR SIGNS
- 2 W16-7PL SIGNS
- 2 SOLAR PANEL SYSTEMS (NOT REQUIRED FOR AC POWER)
- 2 NEMA ENCLOSURES FOR ALL COMPONENTS NEEDED TO MEET FUNCTIONAL REQUIREMENTS PER SPECIAL PROVISIONS
- 2 BATTERY SYSTEMS (NOT REQUIRED FOR AC POWER)

PLUS ALL MOUNTING AND SUPPORTING HARDWARE AND WIRING NECESSARY TO COMPLETE A WORKING SYSTEM.

DETAIL A: DUAL YELLOW BEACON



10 RECTANGULAR RAPID FLASHING BEACON (RRFB)

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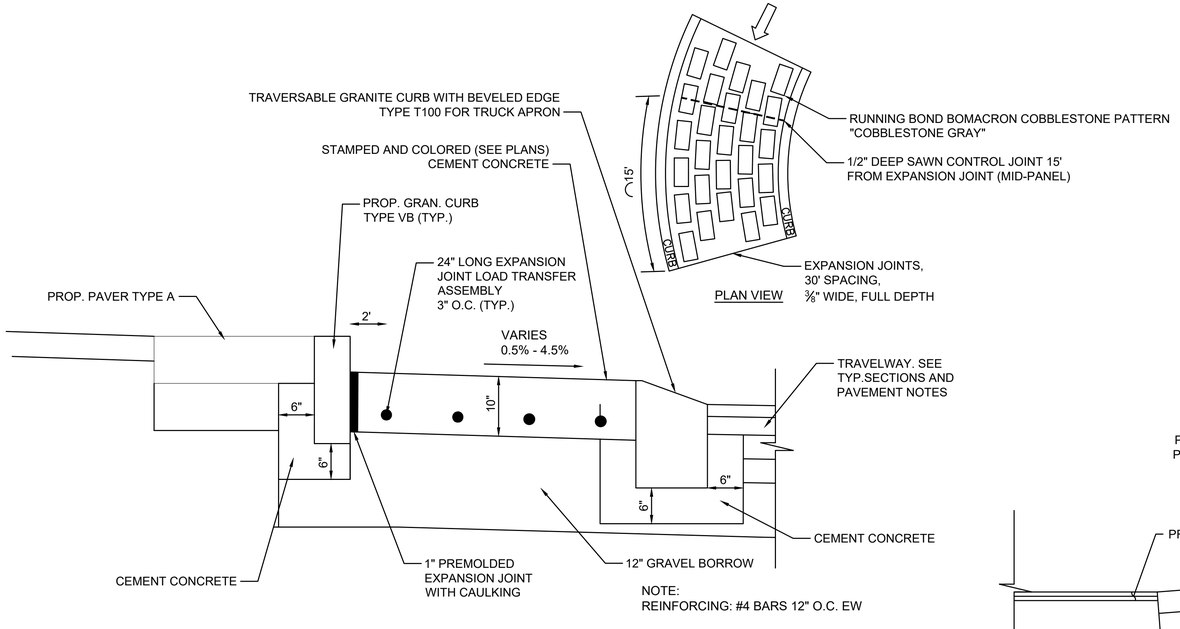
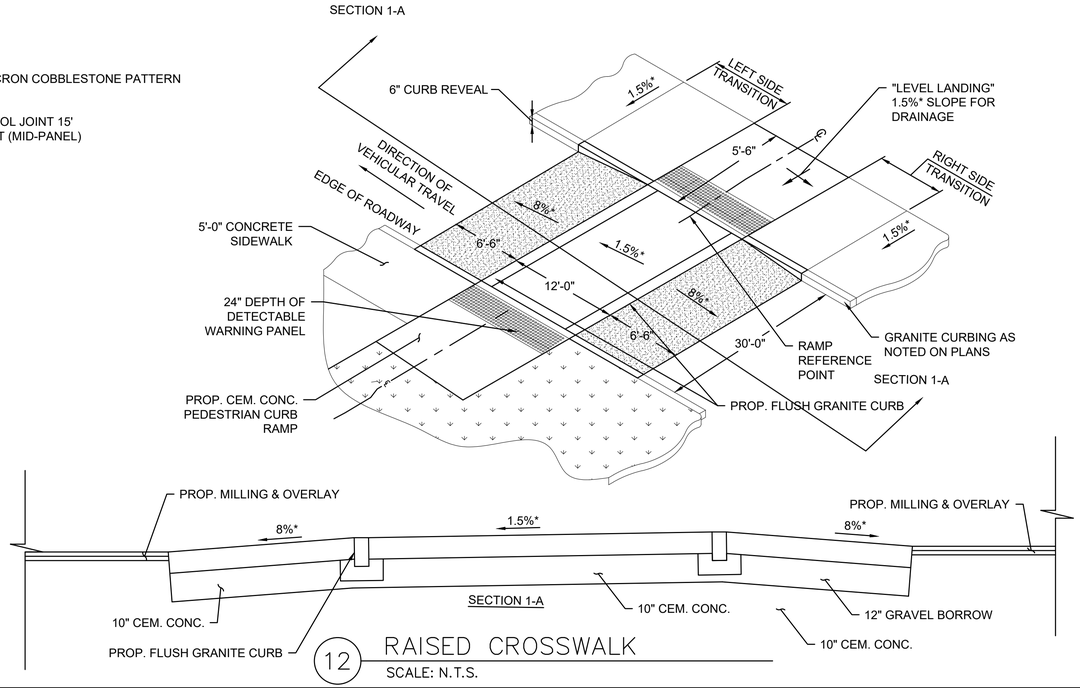


11 STAMPED & COLORED CONCRETE ROUNDABOUT TRUCK APRON

SCALE: N.T.S.



12 RAISED CROSSWALK

SCALE: N.T.S.

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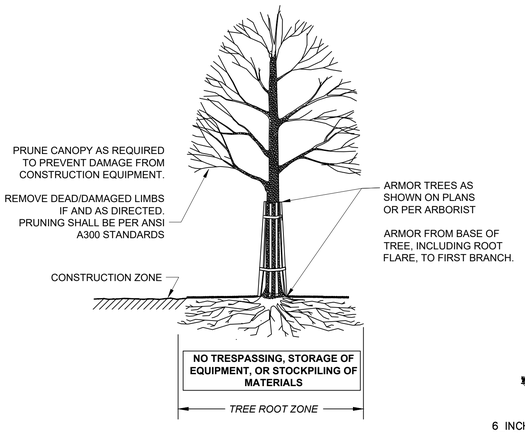
SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	218	358
	PROJECT FILE NO.	608711	

LANDSCAPE DETAILS

20121457A70_LND_DET01.DWG 5-May-2023



SECTION - TRUNK ARMORING & PRUNING

TREE PROTECTION - TRUNK

1 TREE PROTECTION – ARMORING & PRUNING
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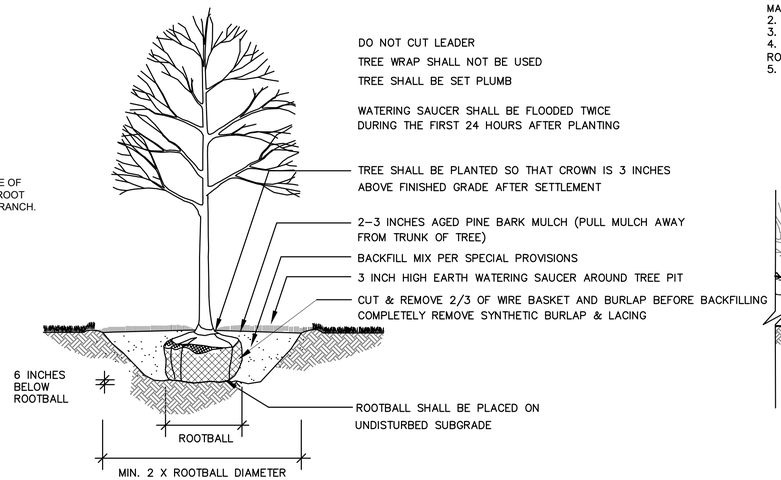
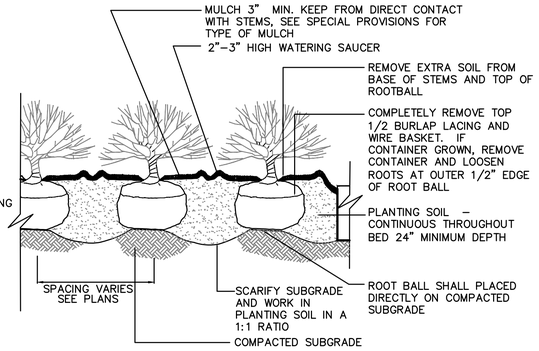


2 TREE PLANTING
SCALE: N.T.S.

NOTES:
1. TOPSOIL SHALL HAVE A PH RANGE OF 5.5 TO 7 WITH A MINIMUM 2 PERCENT ORGANIC MATERIAL CONTENT. AMEND WITH SOIL AMENDMENTS AS NECESSARY.
2. NO PRUNING OR CUTTING UNLESS DIRECTED BY THE ENGINEER.
3. SAUCER SHALL BE FLOODED TWICE DURING THE FIRST 24 HOURS AFTER PLANTING.
4. PLANTS SHALL BE SET PLUMB AND PLANTED SO THAT THE TOP OF THE ROOTBALL IS 1"–2" ABOVE FINSHED GRADE.
5. COORDINATE PLANTING WITH RESIDENT ENGINEER PRIOR TO INSTALLATION.



3 SHRUB AND PERENNIAL PLANTING
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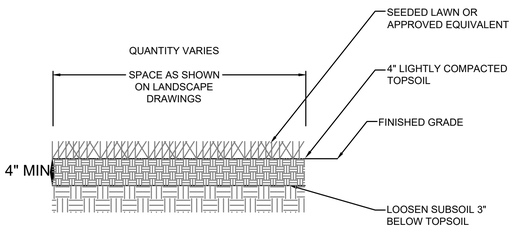

4 LOAM & SEED
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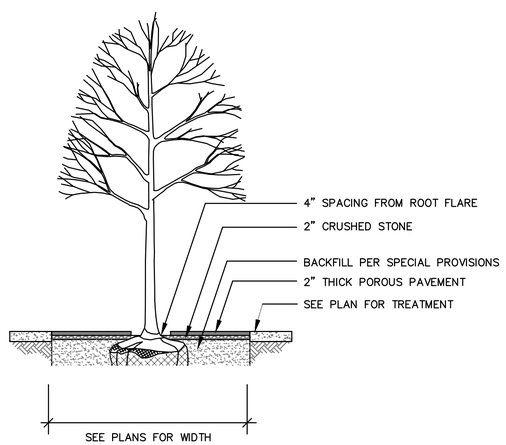

5 PERMEABLE TREE SURROUND
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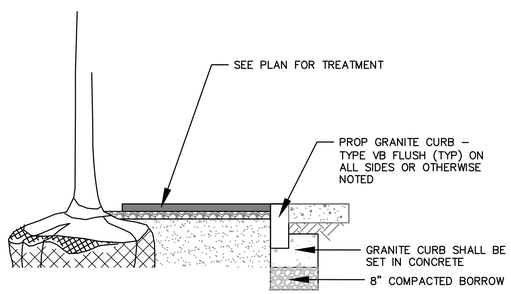
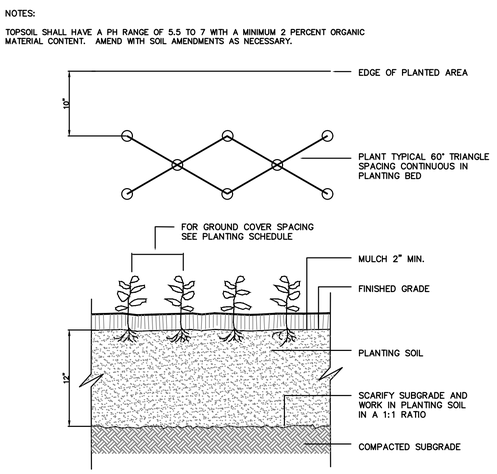


6 FLUSH GRANITE EDGING
SCALE: N.T.S.

NOTES:
TOPSOIL SHALL HAVE A PH RANGE OF 5.5 TO 7 WITH A MINIMUM 2 PERCENT ORGANIC MATERIAL CONTENT. AMEND WITH SOIL AMENDMENTS AS NECESSARY.



7 GROUNDCOVER PLANTING
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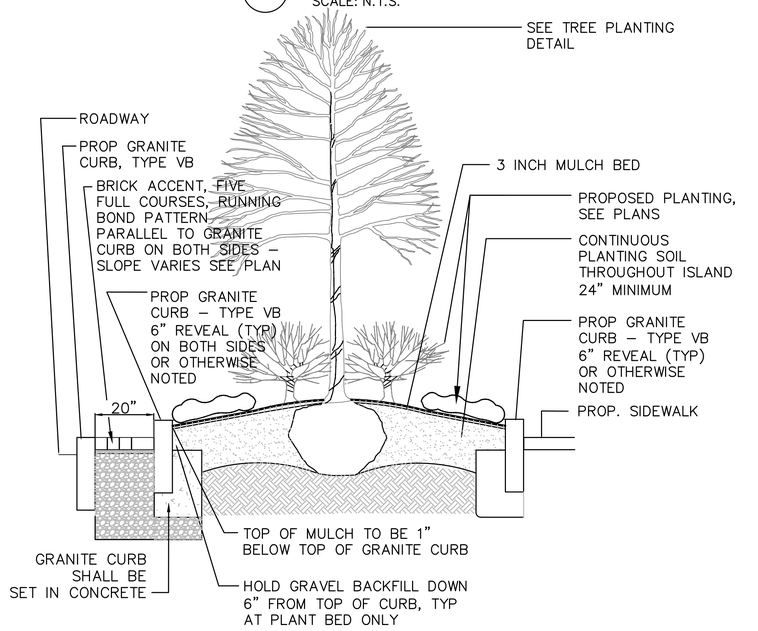

8 RAISED GRANITE PLANTER
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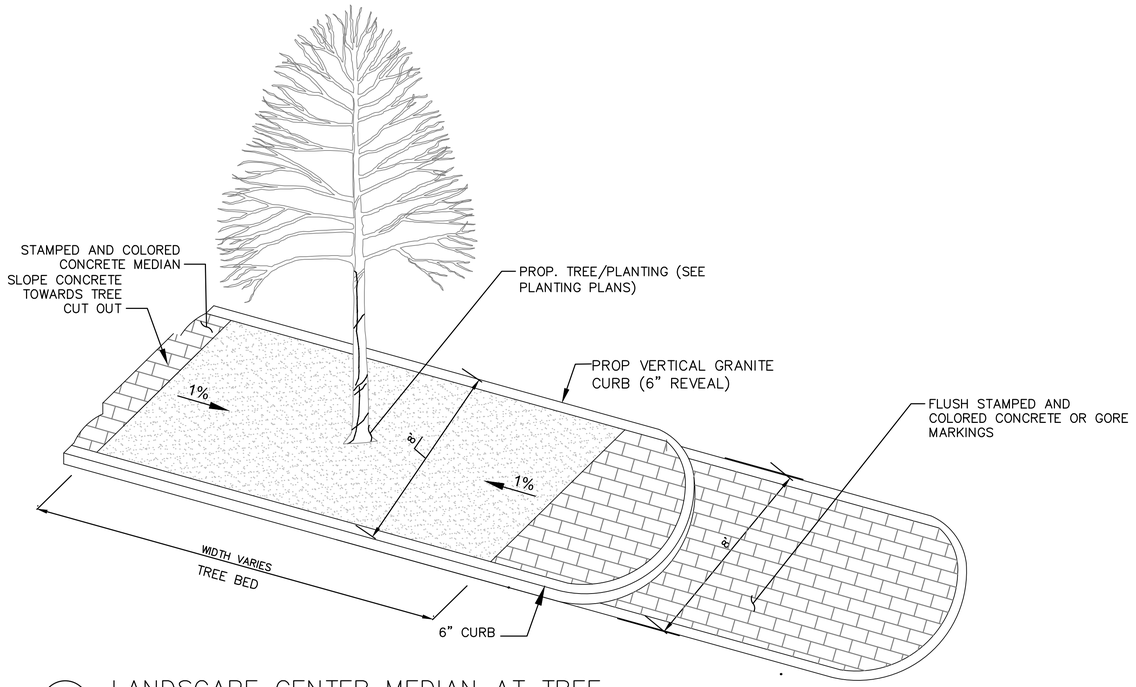
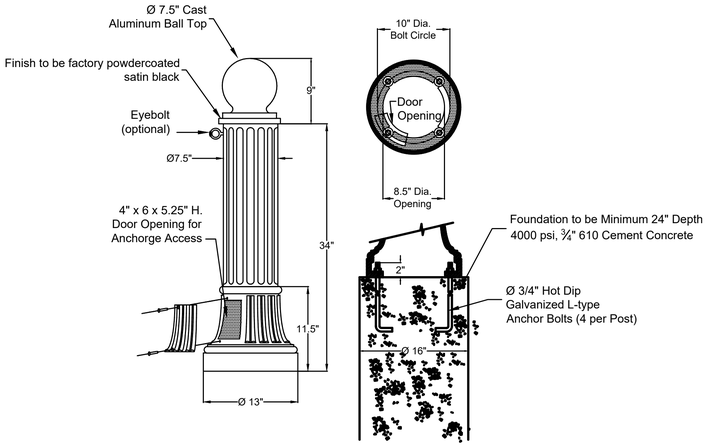


9 LANDSCAPE CENTER MEDIAN AT TREE
SCALE: N.T.S.



10 BOLLARD
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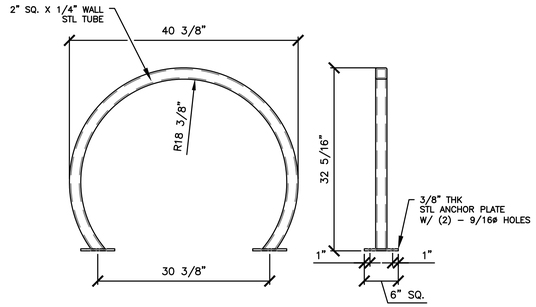
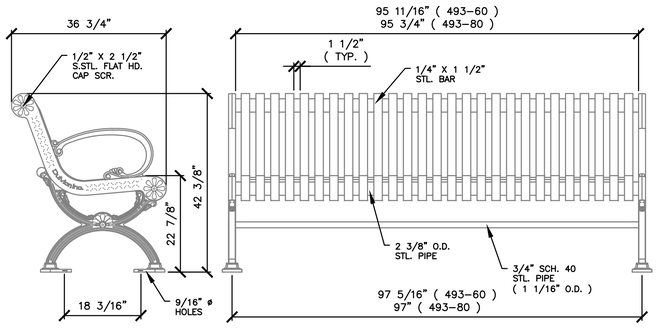




NOTE:
1.) ALL STL. MEMBERS COATED W/ ZINC RICH EPOXY THEN FINISHED W/ POLYESTER POWDER COATING.
2.) 1/2" X 3 3/4" EXPANSION ANCHOR BOLTS PROVIDED FOR OPTIONS S-2 & S-4.
2.) COLOR TO BE BLACK.

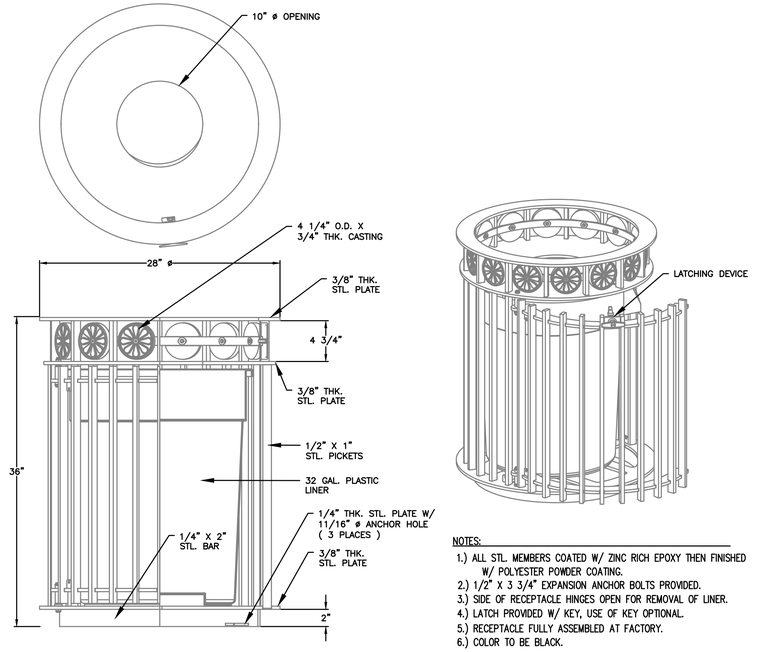
11 BIKE RACK
SCALE: N.T.S.





NOTES
1.) ALL STL. MEMBERS COATED W/ ZINC RICH EPOXY THEN FINISHED W/ POLYESTER POWDER COATING.
2.) 1/2" X 3 3/4" EXPANSION ANCHOR BOLTS PROVIDED.
3.) COLOR TO BE BLACK..

12 BENCH (6')
SCALE: N.T.S.



NOTES:
1.) ALL STL. MEMBERS COATED W/ ZINC RICH EPOXY THEN FINISHED W/ POLYESTER POWDER COATING.
2.) 1/2" X 3 3/4" EXPANSION ANCHOR BOLTS PROVIDED.
3.) SIDE OF RECEPTACLE HINGES OPEN FOR REMOVAL OF LINER.
4.) LATCH PROVIDED W/ KEY, USE OF KEY OPTIONAL.
5.) RECEPTACLE FULLY ASSEMBLED AT FACTORY.
6.) COLOR TO BE BLACK.

13 TRASH RECEPTACLE
SCALE: N.T.S.

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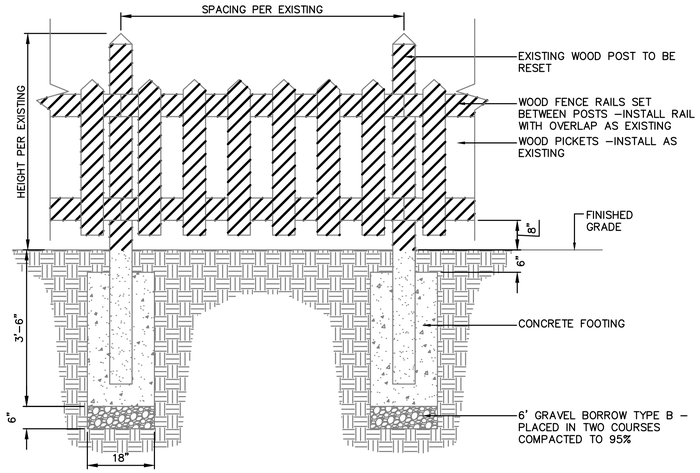
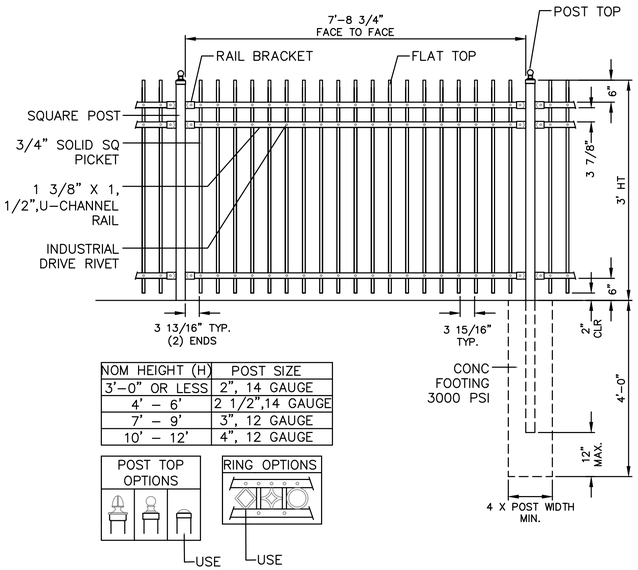


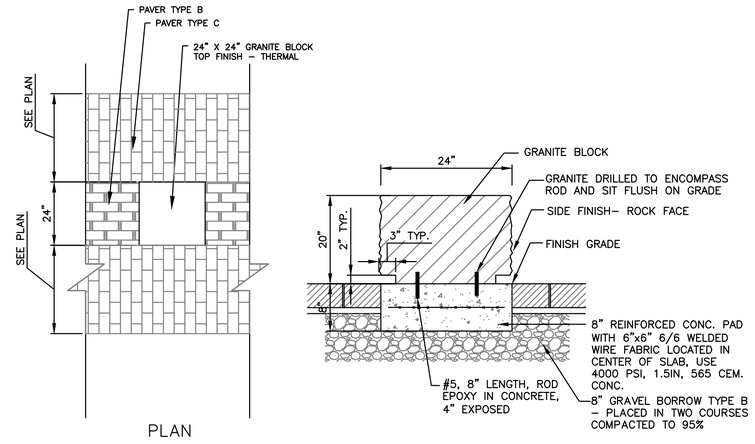
14 RESET EXISTING PICKET FENCE

SCALE: N.T.S.



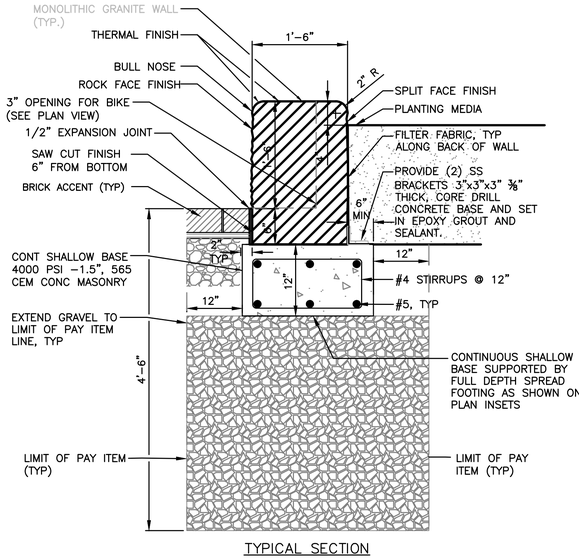
15 ALUMINUM FENCE

SCALE: N.T.S.

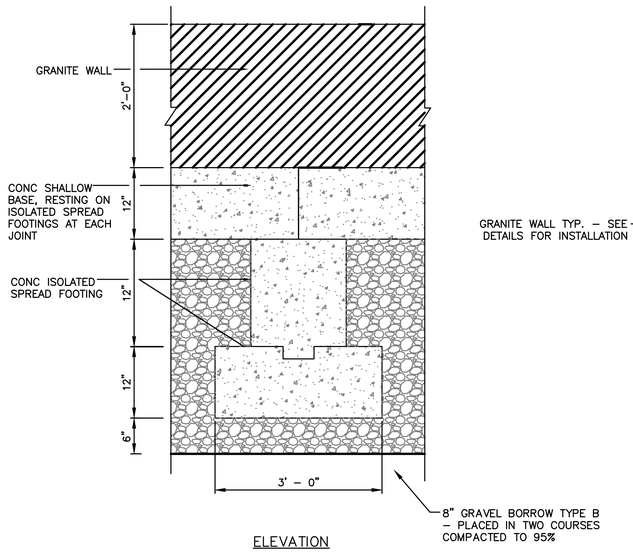


16 SQUARE GRANITE SEAT

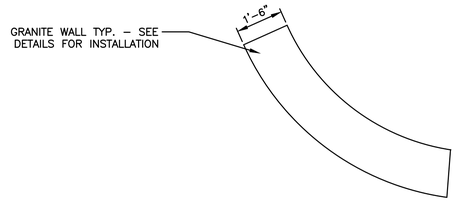
SCALE: N.T.S.



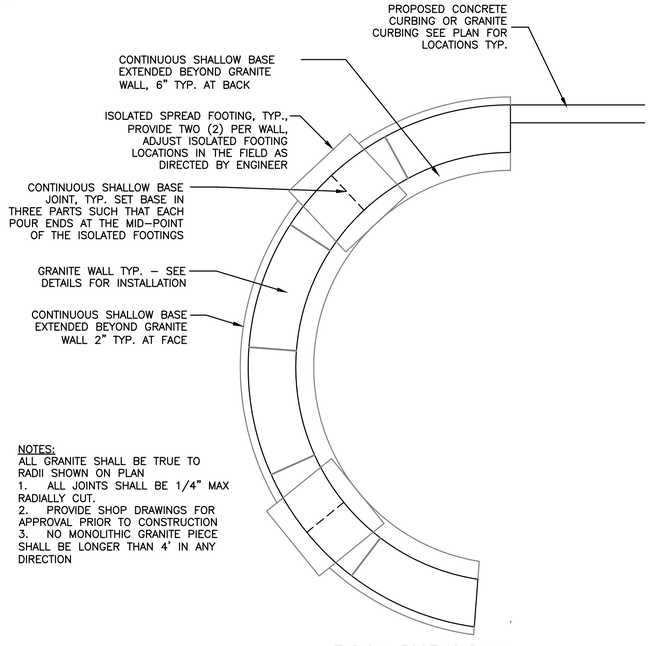
TYPICAL SECTION



ELEVATION



PLAN VIEW



TYPICAL FOOTING PLAN

NOTES:
1. ALL GRANITE SHALL BE TRUE TO RADII SHOWN ON PLAN
2. ALL JOINTS SHALL BE 1/4" MAX RADIALLY CUT

NOTES:
ALL GRANITE SHALL BE TRUE TO RADII SHOWN ON PLAN
1. ALL JOINTS SHALL BE 1/4" MAX RADIALLY CUT.
2. PROVIDE SHOP DRAWINGS FOR APPROVAL PRIOR TO CONSTRUCTION
3. NO MONOLITHIC GRANITE PIECE SHALL BE LONGER THAN 4' IN ANY DIRECTION

17 GRANITE SEAT WALL

SCALE: N.T.S.

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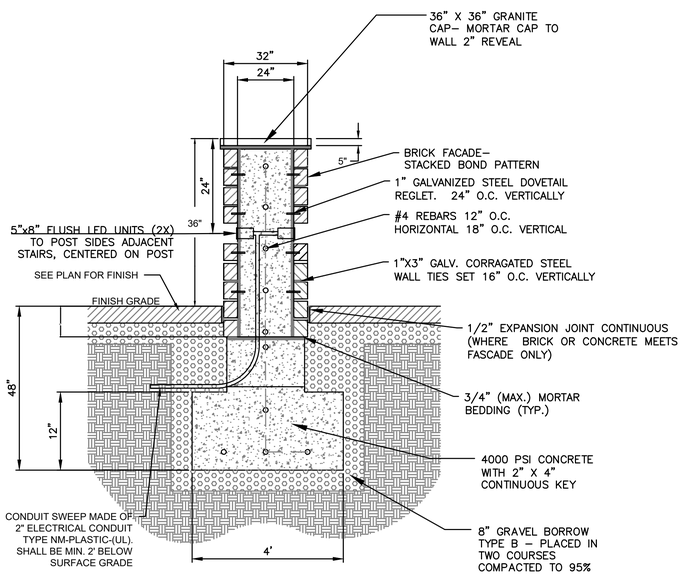
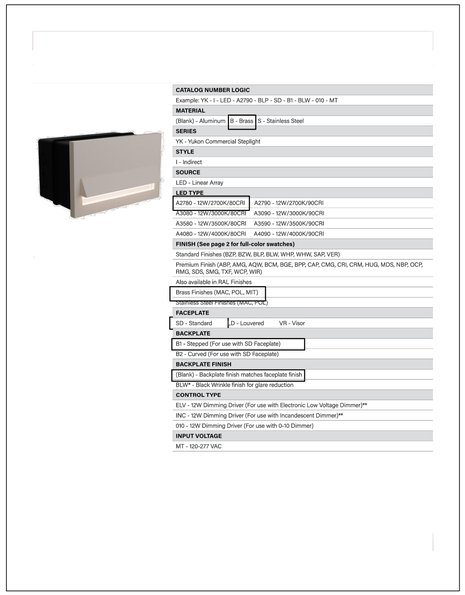
5-May-2023
20121457A70_LND_DET01.DWG



18 BRICK VENEER PILLAR WITH GRANITE CAP & MOUNTED LIGHTING
SCALE: N.T.S.



CATALOG NUMBER LOGIC
Example: YK - I - LED - A2790 - BLP - SD - B1 - BLW - 010 - MT

MATERIAL
(Blank) - Aluminum | B - Brass | S - Stainless Steel

SERIES
YK - Yukon Commercial Steplight

STYLE
I - Indirect

SOURCE
LED - Linear Array

LED TYPE
A2780 - 12W/2700K/80CRI | A2790 - 12W/2700K/90CRI
A3080 - 12W/3000K/80CRI | A3090 - 12W/3000K/90CRI
A3580 - 12W/3500K/80CRI | A3590 - 12W/3500K/90CRI
A4080 - 12W/4000K/80CRI | A4090 - 12W/4000K/90CRI

FINISH (See page 2 for full-color swatches)
Standard Finishes (BZF, BZW, BLP, BLW, WHP, WHW, SAP, VER)
Premium Finish (ABF, AMG, AOW, BCM, BGE, BPP, CAP, CMG, CRI, CRM, HUG, MOS, NBP, OCP, RMG, SDS, SMG, TXF, WCP, WIR)
Also available in RAL finishes
Brass Finishes (MAC, POL, MIT)
Stainless Steel Finishes (WAC, POL)

FACEPLATE
SD - Standard | D - Louvered | VR - Visor

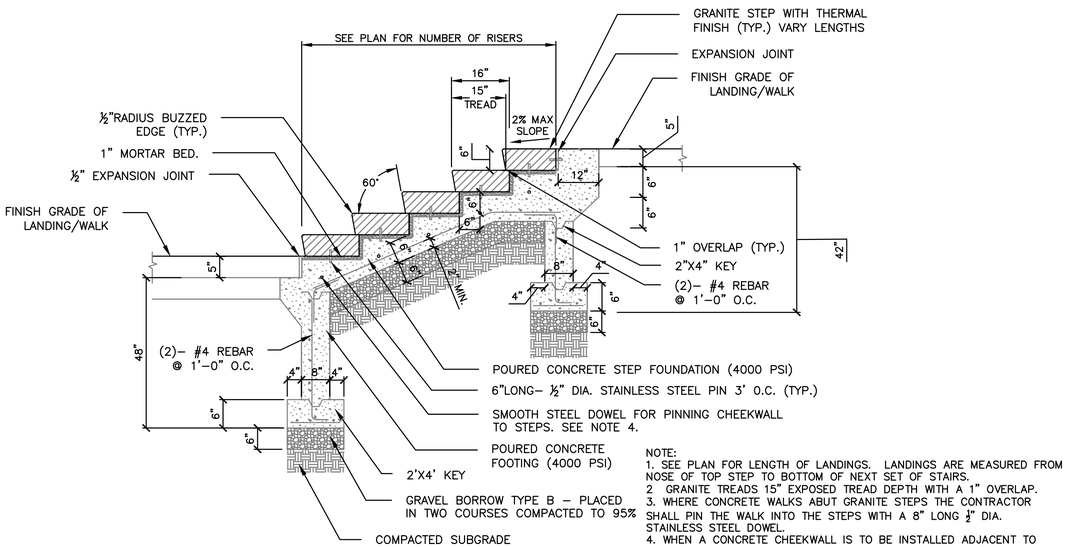
BACKPLATE
B1 - Stepped (For use with SD Faceplate)
B2 - Curved (For use with SD Faceplate)

BACKPLATE FINISH
(Blank) - Backplate finish matches faceplate finish
BLW* - Black Wrinkle finish for glare reduction

CONTROL TYPE
ELV - 12W Dimming Driver (For use with Electronic Low Voltage Dimmer)**
INC - 12W Dimming Driver (For use with Incandescent Dimmer)**
010 - 12W Dimming Driver (For use with 0-10 Dimmer)

INPUT VOLTAGE
MT - 120-277 VAC

19 WALL MOUNTED RECESSED LIGHTING
SCALE: N.T.S.



NOTE:
1. SEE PLAN FOR LENGTH OF LANDINGS. LANDINGS ARE MEASURED FROM NOSE OF TOP STEP TO BOTTOM OF NEXT SET OF STAIRS.
2 GRANITE TREADS 15" EXPOSED TREAD DEPTH WITH A 1" OVERLAP.
3. WHERE CONCRETE WALKS ABUT GRANITE STEPS THE CONTRACTOR SHALL PIN THE WALK INTO THE STEPS WITH A 8" LONG 1/2" DIA. STAINLESS STEEL DOWEL.
4. WHEN A CONCRETE CHEEKWALL IS TO BE INSTALLED ADJACENT TO GRANITE STEPS THE CONTRACTOR SHALL EMBED 8" LONG 1/2" DIA. STAINLESS STEEL DOWELS 4" INTO GRANITE STEPS. CORE DRILL AND SET WITH EPOXY. INSTALL ONE DOWEL PER STEP AS SHOWN.

20 GRANITE STEPS
SCALE: N.T.S.

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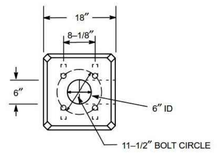
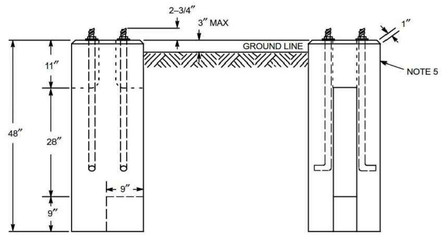
LMAN: X
MS VIEW: X
UCS: X
20121457A70_LND_DET01.DWG 5-May-2023



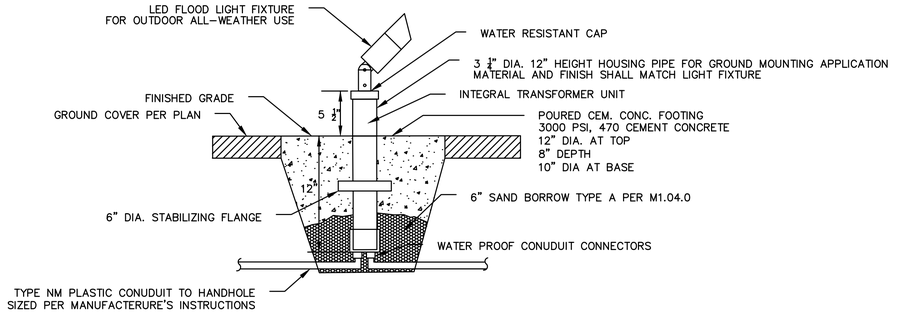
Notes
1. The 6–inch handhole at center of bolt circle projects into a 6–inch–wide slot 28 inches high through the base.
2. Final 28 day concrete strength to be 5000 psi.
3. Fabricator to obtain 1″ X 33″ anchor bolts **SC 0174222** from company stock.
4. Concrete and concrete design shall be in accordance with ACI Code 318–1986.
5. Manufacturer's identification and month/year when manufactured shall be legibly marked in/on concrete within 3 inches of the top.

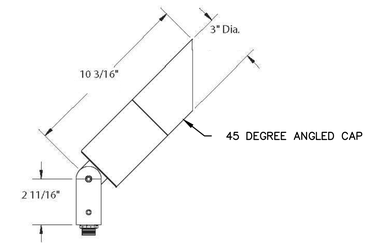


NOTE:
CONTRACTOR TO INSTALL FOUNDATION AND CONDUIT FOR LIGHTING, EVERSOURCE TO PROVIDE AND SET POLE, LUMINAIRE, WIRE AND ENERGIZE SYSTEM.

ORIGINAL 8/13/75 / APPROVED 8/10/98	BASE – STREET LIGHT – PRECAST CONCRETE – STANDARD			
	NORTHEAST UTILITIES	MATERIAL SPECIFICATION	SPC B–159	8

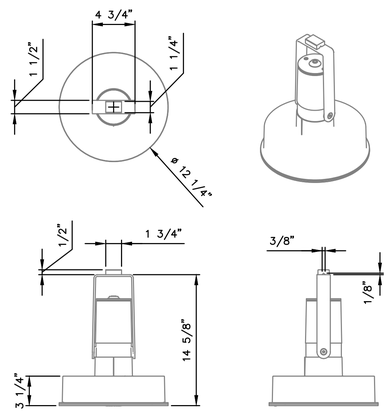
21 LIGHT STANDARD FOUNDATION PRECAST
SCALE: N.T.S.

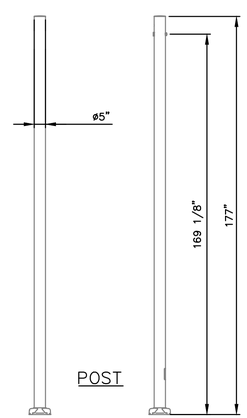




22 LANDSCAPE UPLIGHTING
SCALE: N.T.S.







NOTE:
SEE PEDESTRIAN LEVEL LIGHT FOUNDATION DETAIL FOR FOOTING INFORMATION

23 CATENARY LIGHTING
SCALE: N.T.S.

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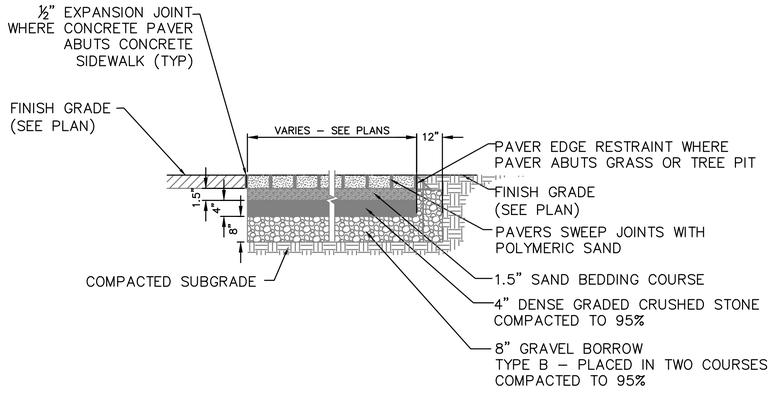
SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

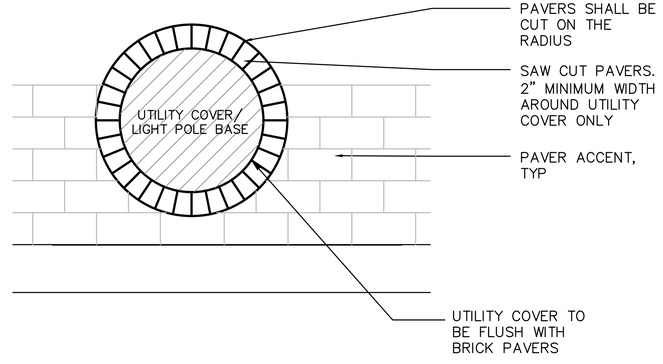
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	223	358
PROJECT FILE NO.	60871		

LANDSCAPE DETAILS

20121457A70_LND_DET01.DWG 5-May-2023



24 PAVER SETTING BED
SCALE: N.T.S.



25 DECORATIVE PAVER BANDING
LIGHT POLE BASE / UTILITY COVER
SCALE: N.T.S.

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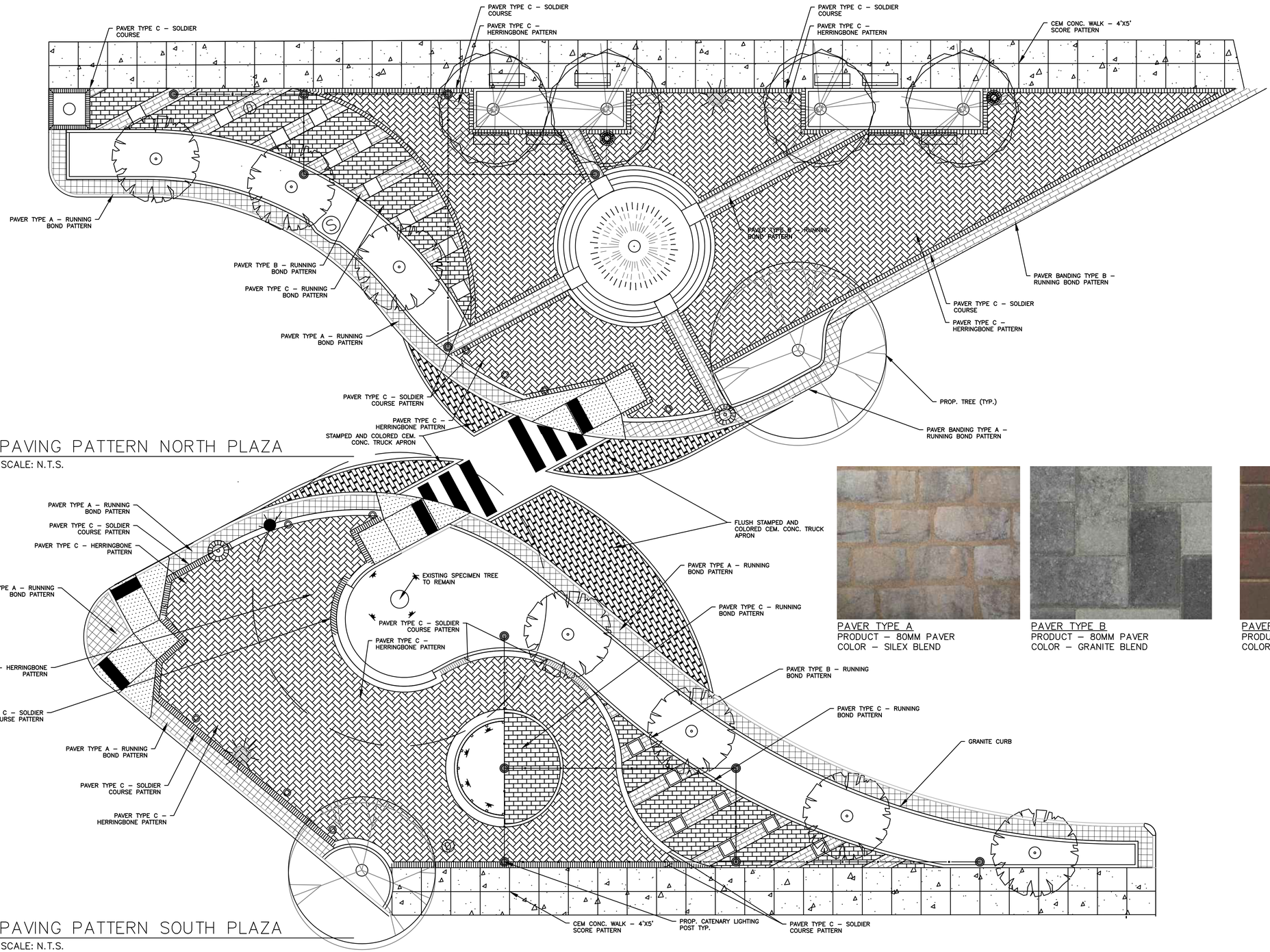
STB: X
LMAN: X
MS VIEW: X
UCS: X

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	224	358
PROJECT FILE NO.		60871	

LANDSCAPE DETAILS

5-May-2023
20121457A70_LND_DET01.DWG



26 PAVING PATTERN NORTH PLAZA
SCALE: N.T.S.

27 PAVING PATTERN SOUTH PLAZA
SCALE: N.T.S.

PAVER TYPE A
PRODUCT – 80MM PAVER
COLOR – SILEX BLEND

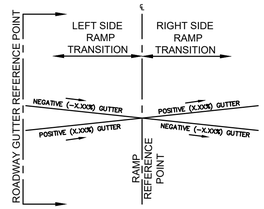
PAVER TYPE B
PRODUCT – 80MM PAVER
COLOR – GRANITE BLEND



PAVER TYPE C
PRODUCT – 80MM PAVER
COLOR – FANEUIL BLEND

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	227	358
PROJECT FILE NO.	608717		

PEDESTRIAN CURB RAMP & DRIVEWAY DETAILS

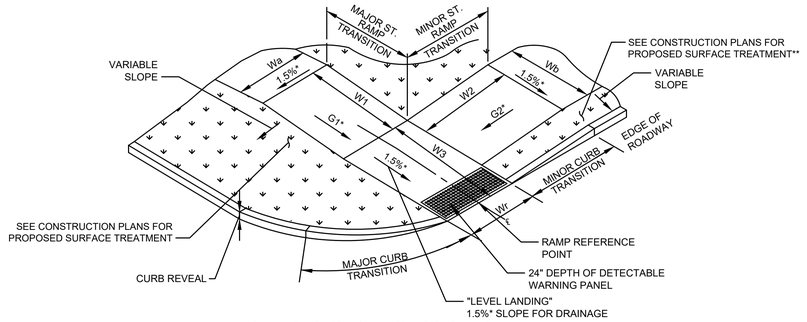


ROADWAY GUTTER GRADE REFERENCE

N.T.S.

NOTES:

THE ROADWAY GUTTER GRADE SHOULD BE READ BEGINNING FROM THE LEFT SIDE AND PROGRESSING TO THE RIGHT SIDE.

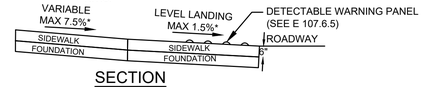


TYPE A PEDESTRIAN CURB RAMP

N.T.S.

NOTES:

- SEE CONSTRUCTION STANDARD E 107.6.0 AND E 107.6.5
* CONSTRUCTION TOLERANCE ± 0.5%

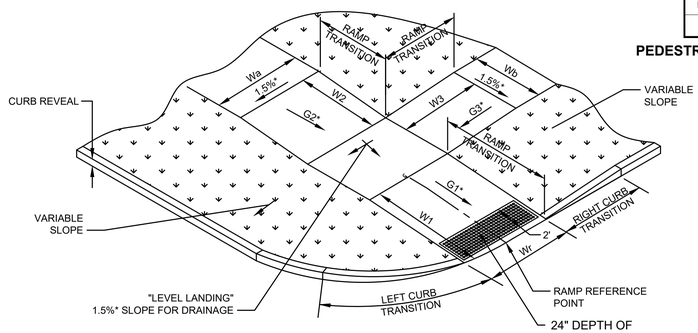


SECTION

N.T.S.

PCR#	RAMP REFERENCE POINT		WIDTH OF SIDEWALK (Wa)	WIDTH OF SIDEWALK (Wb)	WIDTH OF RAMP ENTRANCE (W1)	LENGTH OF RAMP (W1)	LENGTH OF TRANSITION RAMP (W2)	LENGTH OF TRANSITION RAMP (W3)	GRADE OF RAMP (G1)	GRADE OF RAMP (G2)	CORNER RADIUS	MAJOR SIDE TRANSITION					MINOR SIDE TRANSITION				
	STATION/ ROADWAY	OFFSET										CURB CURVE LENGTH	CURB STRAIGHT LENGTH	PC/PT CURB REVEAL	ROADWAY GUTTER GRADE	CURB REVEAL	CURB CURVE LENGTH	CURB STRAIGHT LENGTH	PC/PT CURB REVEAL	ROADWAY GUTTER GRADE	CURB REVEAL
A1	00+98.19 SUMNER AVE	46.00' LT	8'-0"	6'-3"	8'-0"	8'-6"	10'-6"	10'-5"	7.3%	7.2%	-	2'-6"	4'-0"	4"	1.40%	6"	-	6'-6"	-	-1.40%	6"
A2	04+32.17 SUMNER AVE	46.00' LT	8'-0"	5'-0"	8'-0"	5'-0"	8'-0"	8'-9"	5.6%	6.8%	20'	6'-6"	-	-	0.58%	6"	-	6'-6"	-	-0.58%	6"
A3	04+91.68 SUMNER AVE	46.00' LT	8'-0"	5'-0"	8'-0"	9'-0"	8'-6"	9'-4"	7.2%	7.4%	20'	6'-6"	-	-	0.58%	6"	-	6'-6"	-	-0.58%	6"
A4	08+98.71 SUMNER AVE	46.00' LT	8'-0"	6'-0"	8'-0"	9'-0"	6'-0"	7'-7"	7.0%	7.0%	30'	6'-6"	-	-	-0.41%	6"	6'-6"	-	-	0.41%	6"
A5	12+21.13 SUMNER AVE	46.00' LT	8'-0"	6'-0"	8'-0"	5'-0"	3'-0"	7'-3"	5.6%	4.0%	25'	6'-6"	-	-	0.50%	6"	4'-0"	2'-6"	4"	-0.41%	6"
A6	14+74.58 SUMNER AVE	46.00' LT	8'-0"	6'-0"	8'-0"	11'-0"	7'-0"	8'-0"	7.2%	7.4%	22'	6'-6"	-	-	2.7%	6"	-	6'-6"	-	-2.70%	6"
A7	15+05.52 SUMNER AVE	46.00' LT	8'-0"	6'-0"	8'-0"	8'-6"	8'-6"	8'-0"	7.1%	7.5%	22'	6'-6"	-	-	2.7%	6"	-	6'-6"	-	-2.70%	6"
A8	504+25.65 ORMOND ST	15.00' LT	6'-0"	5'-0"	6'-0"	10'-6"	10'-6"	7'-9"	7.2%	7.2%	15'	6'-6"	-	-	0.12%	6"	-	6'-6"	-	-0.12%	6"

(-) REPRESENTS THE LOW SIDE TRANSITION

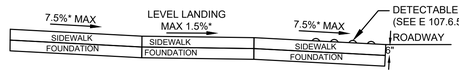


TYPE B PEDESTRIAN CURB RAMP

N.T.S.

NOTES:

- SEE CONSTRUCTION STANDARD E 107.3.0 AND E 107.6.5
* CONSTRUCTION TOLERANCE ± 0.5%

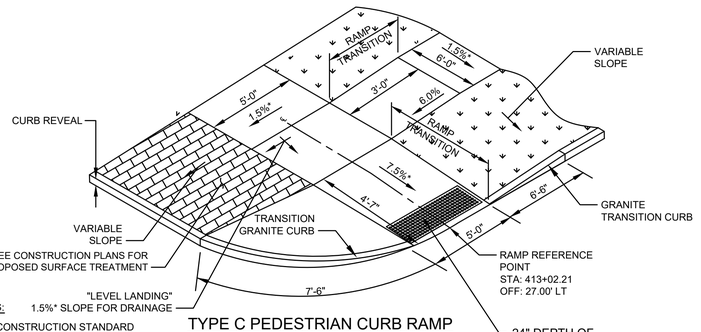


SECTION

N.T.S.

PCR#	RAMP REFERENCE POINT		WIDTH OF SIDEWALK (Wa)	WIDTH OF SIDEWALK (Wb)	WIDTH OF RAMP ENTRANCE (W1)	LENGTH OF RAMP (W1)	LENGTH OF TRANSITION RAMP (W2)	LENGTH OF TRANSITION RAMP (W3)	GRADE OF RAMP (G1)	GRADE OF RAMP (G2)	GRADE OF RAMP (G3)	CORNER RADIUS	LEFT SIDE TRANSITION					RIGHT SIDE TRANSITION				
	STATION/ ROADWAY	OFFSET											CURB CURVE LENGTH	CURB STRAIGHT LENGTH	PC/PT CURB REVEAL	ROADWAY GUTTER GRADE	CURB REVEAL	CURB CURVE LENGTH	CURB STRAIGHT LENGTH	PC/PT CURB REVEAL	ROADWAY GUTTER GRADE	CURB REVEAL
B1	13+64.69 SUMNER AVE	46.00' RT	8'-0"	5'-10"	8'-0"	4'-2"	6'-0"	6'-3"	5.0%	5.5%	5.2%	10'	-	6'-6"	-	-0.4%	6"	4'-6"	2'-0"	4"	0.4%	6"
B2	13+94.56 SUMNER AVE	46.00' RT	8'-0"	5'-9"	8'-0"	4'-2"	4'-0"	6'-0"	5.0%	6.1%	5.2%	10'	4'-6"	2'-0"	4"	0.9%	6"	-	6'-6"	-	-0.9%	6"
B3	16+54.82 SUMNER AVE	46.00' RT	8'-0"	5'-9"	8'-0"	4'-1"	5'-6"	5'-6"	5.0%	5.0%	5.0%	10'	-	6'-6"	-	2.0%	6"	2'-6"	4'-0"	4"	-2.0%	6"
B4	16+84.58 SUMNER AVE	46.00' RT	8'-0"	5'-10"	8'-0"	4'-1"	5'-0"	5'-6"	5.0%	4.8%	7.5%	15'	6'-6"	-	-	-2.0%	6"	-	6'-6"	-	2.0%	6"
B5	413+29.18 DICKINSON ST	27.25' LT	5'-6"	5'-0"	5'-6"	6'-3"	5'-0"	5'-0"	5.0%	3.8%	3.8%	10'	-	6'-6"	-	0.6%	6"	6'-6"	-	-	-0.6%	6"

(-) REPRESENTS THE LOW SIDE TRANSITION

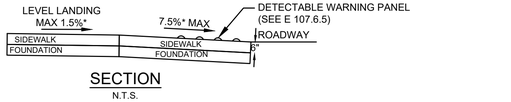


NOTES:

- SEE CONSTRUCTION STANDARD E 107.3.0 AND E 107.6.5
* CONSTRUCTION TOLERANCE ± 0.5%

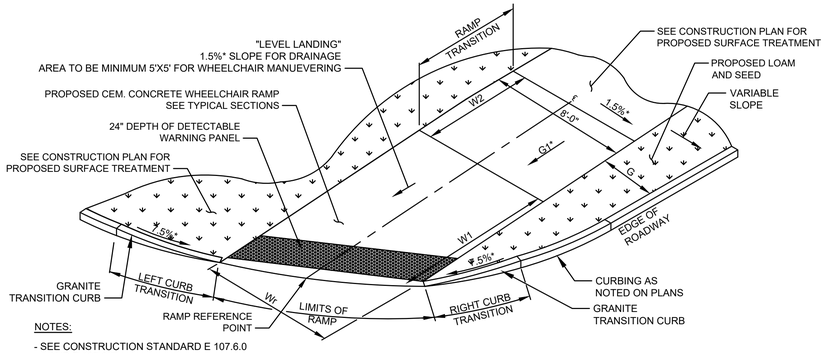
TYPE C PEDESTRIAN CURB RAMP
TRENTON STREET

N.T.S.



SECTION

N.T.S.

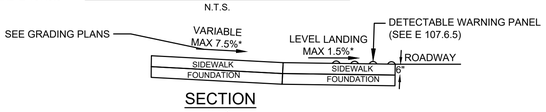


NOTES:

- SEE CONSTRUCTION STANDARD E 107.6.0 AND E 107.6.5
- * CONSTRUCTION TOLERANCE ± 0.5%
- **SEE CONSTRUCTION STANDARD E 107.9.0

TYPE D PEDESTRIAN CURB RAMP

N.T.S.



SECTION

N.T.S.

PCR#	RAMP REFERENCE POINT		LENGTH OF PRIMARY RAMP (W1)	RAMP WIDTH (Wr)	WIDTH OF BUFFER (G)	CORNER RADIUS	RAMP LENGTH (W2)	RAMP GRADE (G1)	LEFT SIDE CURB TRANSITION				RIGHT SIDE CURB TRANSITION			
	STATION/ ROADWAY	OFFSET							CURB CURVE LENGTH	CURB STRAIGHT LENGTH	ROADWAY GUTTER GRADE	CURB REVEAL	CURB CURVE LENGTH	CURB STRAIGHT LENGTH	ROADWAY GUTTER GRADE	CURB REVEAL
D1	3+25.59 SUMNER AVE	46.00 RT	5'-9"	8'-0"	12'-6"	30'	5'-0"	6.9%	-	6'-6"	-0.9%	6"	4'-0"	2'-6"	0.9%	6"
D2	3+83.13 SUMNER AVE	46.00 RT	5'-0"	8'-0"	12'-6"	30'	7'-6"	7.0%	6'-6"	-	2.0%	6"	-	6'-6"	-2.0%	6"
D3	707+36.30 CLIFTWOOD ST	15.50 RT	5'-0"	5'-6"	3'-7"	10.5'	6'-0"	6.7%	6'-6"	-	-0.56%	6"	-	6'-6"	0.56%	6"

(-) REPRESENTS THE LOW SIDE TRANSITION

NOTES:

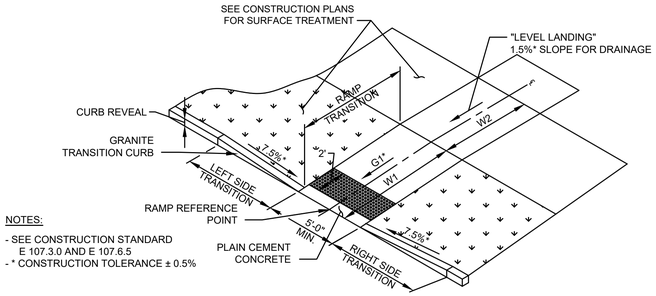
NOTE: THE TRANSITION SLOPE OF ANY CURB RAMP, EXCEPT MAXIMUM LENGTH HIGH SIDE TRANSITIONS, SHALL NOT EXCEED 7.5%*, +/- 0.5% FOR TOLERANCE FOR CONSTRUCTION. PER 521 CMR, FINISHED SLOPE MAY NOT EXCEED 8.33%. PROPOSED WHEELCHAIR RAMP SLOPES, ESPECIALLY HIGH SIDE TRANSITION SLOPES, SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO POURING OF CONCRETE AND ADJUSTED, IF NECESSARY, AT THE DIRECTION OF THE ENGINEER.

20121457A70_WCR_DET01.DWG Plotted on 5-May-2023 3:26 PM

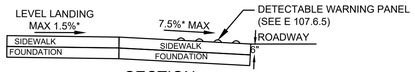
SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXX(XXX)X	228	358
	PROJECT FILE NO. 608717		

PEDESTRIAN CURB RAMP & DRIVEWAY DETAILS



NOTES:
- SEE CONSTRUCTION STANDARD E 107.3.0 AND E 107.6.5
- * CONSTRUCTION TOLERANCE ± 0.5%

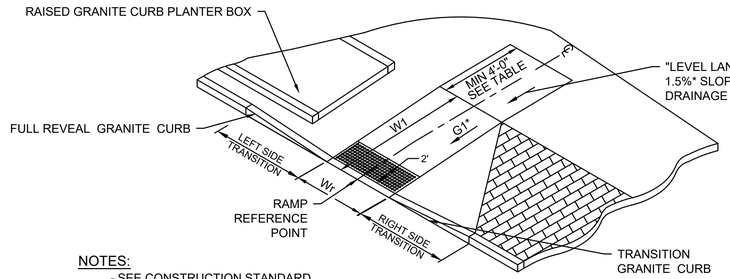


SECTION
N.T.S.

TYPE E PEDESTRIAN CURB RAMP
N.T.S.

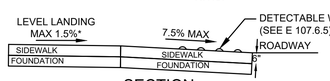
PCR#	RAMP REFERENCE POINT		WIDTH OF RAMP ENTRANCE (5'-0" MIN.)	CORNER RADIUS	RAMP TRANSITION LENGTH (W1)	GRADE OF RAMP (G1)	LEVEL LANDING WIDTH (W2)	LEFT SIDE CURB TRANSITION					RIGHT SIDE CURB TRANSITION				
	STATION/ ROADWAY	OFFSET						CURVE LENGTH	STRAIGHT LENGTH	PC/PT CURB REVEAL	ROADWAY GUTTER GRADE	CURB REVEAL	CURVE LENGTH	STRAIGHT LENGTH	PC/PT CURB REVEAL	ROADWAY GUTTER GRADE	CURB REVEAL
E1	02+61.38 SUMNER AVE	29.00' LT	8'-0"	-	13'-0"	5.2%	8'-0"	-	6'-6"	-	-0.51%	6"	-	6'-6"	-	0.51%	6"
E2	02+61.38 SUMNER AVE	29.00' RT	8'-0"	-	13'-0"	5.2%	8'-0"	-	6'-6"	-	0.51%	6"	-	6'-6"	-	-0.51%	6"
E3	08+43.64 SUMNER AVE	29.00' RT	10'-0"	-	13'-0"	5.3%	8'-0"	-	6'-6"	-	0.48%	6"	-	6'-6"	-	-0.48%	6"
E4	09+26.69 SUMNER AVE	29.00' LT	6'-0"	-	13'-0"	4.1%	8'-0"	-	6'-6"	-	-0.48%	6"	6'-6"	-	-	0.48%	6"
E5	11+55.64 SUMNER AVE	29.00' RT	6'-0"	-	13'-0"	6.6%	8'-0"	-	6'-6"	-	0.50%	6"	-	6'-6"	-	-0.50%	6"
E6	19+04.48 SUMNER AVE	29.00' LT	6'-6"	5'	13'-0"	5.8%	8'-0"	-	6'-6"	-	-0.10%	6"	6'-6"	-	-	0.10%	6"
E7	19+71.36 SUMNER AVE	32.00' LT	10'-0"	-	10'-0"	5.0%	8'-0"	-	6'-6"	-	-0.10%	6"	6'-6"	-	-	0.10%	6"
E8	27+80.65 SUMNER AVE	47.00' LT	6'-0"	20'	8'-1"	2.0%	6'-0"	-	6'-6"	-	0.3%	6"	6'-6"	-	-	-0.3%	6"
E9	30+60.63 SUMNER AVE	47.00' LT	6'-0"	20'	9'-0"	7.5%	6'-0"	6'-6"	-	-	1.0%	6"	-	6'-6"	-	-1.0%	6"
E10	30+90.47 SUMNER AVE	47.00' LT	6'-0"	20'	9'-0"	6.7%	6'-0"	-	6'-6"	-	-1.0%	6"	6'-6"	-	-	1.0%	6"
E11	32+01.53 SUMNER AVE	27.00' LT	6'-0"	-	8'-6"	5.0%	5'-0"	-	6'-6"	-	-0.33%	6"	-	6'-6"	-	0.33%	6"
E12	32+01.53 SUMNER AVE	27.00' RT	6'-0"	20'	8'-6"	5.0%	5'-0"	6'-6"	-	-	0.33%	6"	-	6'-6"	-	-0.33%	6"
E13	32+76.22 SUMNER AVE	27.00' LT	6'-0"	10'	8'-6"	7.2%	5'-0"	6'-6"	-	-	-0.33%	6"	-	6'-6"	-	0.33%	6"
E14	32+76.22 SUMNER AVE	27.50' RT	6'-0"	30'	8'-6"	7.4%	5'-0"	-	6'-6"	-	0.33%	6"	6'-6"	-	-	-0.33%	6"
E15	33+70.33 SUMNER AVE	47.00' LT	6'-0"	20'	9'-2"	3.5%	6'-0"	6'-6"	-	-	1.70%	6"	-	6'-6"	-	-1.70%	6"
E16	34+00.53 SUMNER AVE	47.00' LT	6'-0"	20'	9'-0"	6.2%	6'-0"	-	6'-6"	-	-1.70%	6"	6'-6"	-	-	1.70%	6"
E17	305+79.52 BELMONT AVE	16.00' LT	6'-0"	-	12'-9"	4.9%	6'-0"	6'-6"	-	-	0.86%	6"	-	6'-6"	-	-0.86%	6"
E18	305+79.52 BELMONT AVE	16.00' RT	6'-0"	-	12'-9"	5.6%	6'-0"	-	6'-6"	-	-0.86%	6"	-	6'-6"	-	0.86%	6"

(-) REPRESENTS THE LOW SIDE TRANSITION



NOTES:
- SEE CONSTRUCTION STANDARD E 107.6.9 AND E 107.6.5
- * CONSTRUCTION TOLERANCE ± 0.5%

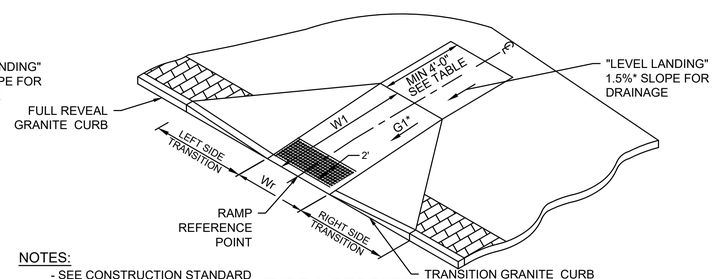
TYPE F PEDESTRIAN CURB RAMP
N.T.S.



SECTION
N.T.S.

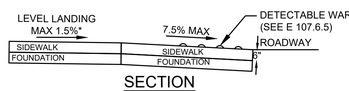
PCR#	RAMP REFERENCE POINT		WIDTH OF RAMP ENTRANCE (5'-0" MIN.)	CORNER RADIUS	RAMP TRANSITION LENGTH (W1)	GRADE OF RAMP (G1)	LEVEL LANDING WIDTH (W2)	LEFT SIDE CURB TRANSITION					RIGHT SIDE CURB TRANSITION				
	STATION/ ROADWAY	OFFSET						CURVE LENGTH	STRAIGHT LENGTH	PC/PT CURB REVEAL	ROADWAY GUTTER GRADE	CURB REVEAL	CURVE LENGTH	STRAIGHT LENGTH	PC/PT CURB REVEAL	ROADWAY GUTTER GRADE	CURB REVEAL
F1	402+10.90 DICKINSON ST	16.00' RT	5'-0"	N/A	8'-0"	7.50%	5'-5"	-	6'-6"	-	0.15%	6"	4'-0"	3'-0"	3"	0.15%	6"
F2	412+84.20 DICKINSON ST	16.00' LT	5'-0"	N/A	8'-6"	6.30%	5'-0"	-	6'-6"	-	-0.57%	6"	6'-0"	1'-0"	1"	-0.57%	6"

(-) REPRESENTS THE LOW SIDE TRANSITION



NOTES:
- SEE CONSTRUCTION STANDARD E 107.6.9 AND E 107.6.5
- * CONSTRUCTION TOLERANCE ± 0.5%

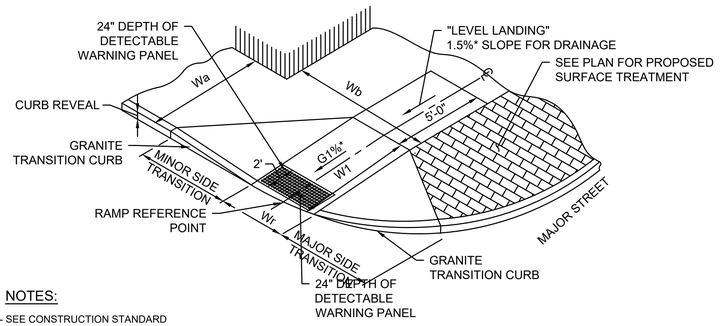
TYPE G PEDESTRIAN CURB RAMP
N.T.S.



SECTION
N.T.S.

PCR#	RAMP REFERENCE POINT		WIDTH OF RAMP ENTRANCE (5'-0" MIN.)	CORNER RADIUS	RAMP TRANSITION LENGTH (W1)	GRADE OF RAMP (G1)	LEVEL LANDING WIDTH (W2)	LEFT SIDE CURB TRANSITION					RIGHT SIDE CURB TRANSITION				
	STATION/ ROADWAY	OFFSET						CURVE LENGTH	STRAIGHT LENGTH	PC/PT CURB REVEAL	ROADWAY GUTTER GRADE	CURB REVEAL	CURVE LENGTH	STRAIGHT LENGTH	PC/PT CURB REVEAL	ROADWAY GUTTER GRADE	CURB REVEAL
G1	25+04.04 SUMNER AVE	32.00' LT	5'-0"	N/A	6'-0"	6.6%	5'-0"	-	6'-6"	-	0.10%	6"	-	6'-6"	-	-0.10%	6"
G2	203+98.53 BELMONT AVE	14.83' RT	5'-0"	53'	8'-6"	7.2%	5'-0"	6'-6"	-	-	0.30%	6"	6'-2"	-	-	-0.30%	6"
G3	250+21.27 BELMONT AVE	9.90' RT	5'-0"	10'	8'-6"	7.2%	5'-0"	6'-6"	-	-	0.10%	6"	6'-6"	-	-	-0.10%	6"
G4	301+90.70 BELMONT AVE	25.00' LT	5'-0"	N/A	4'-9"	7.0%	5'-0"	-	6'-6"	-	-0.32%	3"	-	6'-6"	-	-0.32%	3"
G5	252+55.50 BELMONT AVE	29.50' LT	5'-0"	N/A	7'-5"	7.5%	7'-5"	-	7'-6"	-	0.39%	6"	-	6'-6"	-	-0.39%	6"
G6	304+02.43 BELMONT AVE	11.38' RT	10'-0"	N/A	8'-6"	2.0%	5'-0"	8'-0"	-	-	-1.05%	6"	2'-8"	3'-10"	4"	1.05%	6"

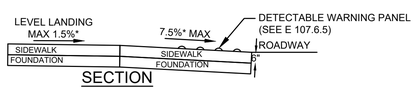
(-) REPRESENTS THE LOW SIDE TRANSITION



NOTES:
- SEE CONSTRUCTION STANDARD E 107.3.0 AND E 107.6.5

* CONSTRUCTION TOLERANCE ± 0.5%

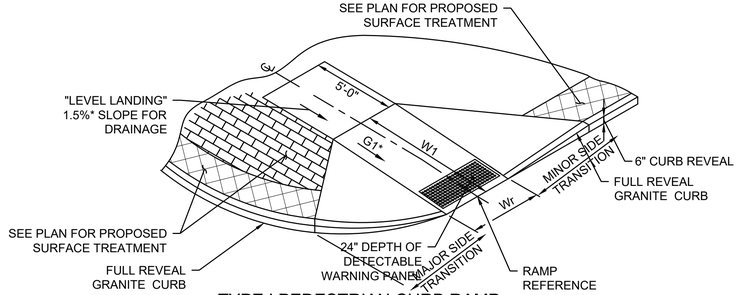
TYPE H PEDESTRIAN CURB RAMP
N.T.S.



SECTION
N.T.S.

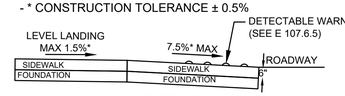
PCR#	RAMP REFERENCE POINT		WIDTH OF SIDEWALK (Wa)	WIDTH OF SIDEWALK (Wb)	WIDTH OF RAMP ENTRANCE (Wr = 5'-0" MIN.)	LENGTH OF RAMP (W1)	GRADE OF RAMP (G1)	MAJOR SIDE TRANSITION				MINOR SIDE TRANSITION			
	STATION/ ROADWAY	OFFSET						STRAIGHT LENGTH	CURVED LENGTH	ROADWAY GUTTER GRADE	CURB REVEAL	STRAIGHT LENGTH	CURVED LENGTH	ROADWAY GUTTER GRADE	CURB REVEAL
H1	21+72.54 SUMNER AVE	42.50' RT	8'-0"	10'-0"	5'-0"	7'-0"	7.0%	-	9'-6"	2.30%	6"	5'-6"	-	-2.30%	6"
H2	21+96.94 SUMNER AVE	27.00' LT	7'-6"	16'-0"	5'-0"	7'-0"	5.0%	-	9'-6"	2.30%	6"	5'-6"	-	-2.30%	6"
H3	406+75.60 DICKINSON STREET	22.60' LT	11'-0"	10'-0"	5'-0"	7'-0"	4.4%	-	8'-0"	0.85%	6"	-	6'-0"	-0.85%	6"
H4	300+47.00 BELMONT AVE	6.00' LT	N/A	N/A	5'-0"	7'-0"	7.0%	2'-0"	6'-0"	1.50%	6"	6'-0"	-	-1.50%	6"
H5	707+22.11 CLIFTWOOD ST	17.65' LT	6'-0"	5'-8"	5'-6"	7'-6"	7.0%	-	6'-0"	-0.52%	6"	2'-0"	6'-0"	0.52%	6"

(-) REPRESENTS THE LOW SIDE TRANSITION



NOTES:
- SEE CONSTRUCTION STANDARD E 107.6.9 AND E 107.6.5
- * CONSTRUCTION TOLERANCE ± 0.5%

TYPE I PEDESTRIAN CURB RAMP
N.T.S.



SECTION
N.T.S.

PCR#	RAMP REFERENCE POINT		WIDTH OF RAMP ENTRANCE (Wr = 5'-0" MIN.)	LENGTH OF RAMP (W1)	GRADE OF RAMP (G1)	MAJOR SIDE TRANSITION				MINOR SIDE TRANSITION			
	STATION/ ROADWAY	OFFSET				STRAIGHT LENGTH	CURVED LENGTH	ROADWAY GUTTER GRADE	CURB REVEAL	STRAIGHT LENGTH	CURVED LENGTH	ROADWAY GUTTER GRADE	CURB REVEAL
I1	253+76.78 BELMONT AVE	12.50' RT	6'-0"	8'-0"	7.1%	-	6'-6"	0.50%	6"	6'-6"	-	-0.50%	6"

(-) REPRESENTS THE LOW SIDE TRANSITION

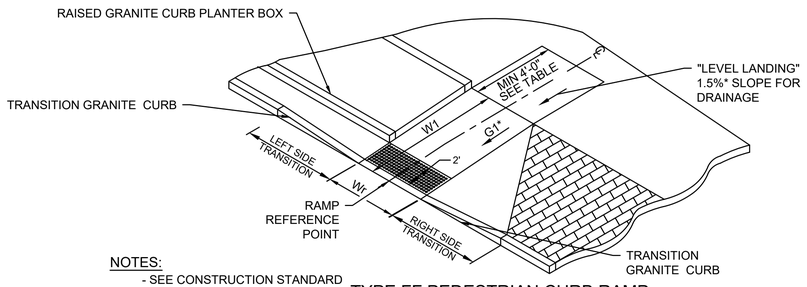
20121457A70_WCR_DET01.DWG Plotted on 5-May-2023 3:27 PM

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	229	358
PROJECT FILE NO.	608717		

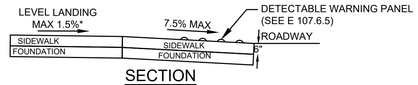
PEDESTRIAN CURB RAMP & DRIVEWAY DETAILS

20121457A70_WCR_DET01.DWG Plotted on 5-May-2023 3:27 PM



NOTES:
- SEE CONSTRUCTION STANDARD E 107.6.9 AND E 107.6.5
- * CONSTRUCTION TOLERANCE ± 0.5%

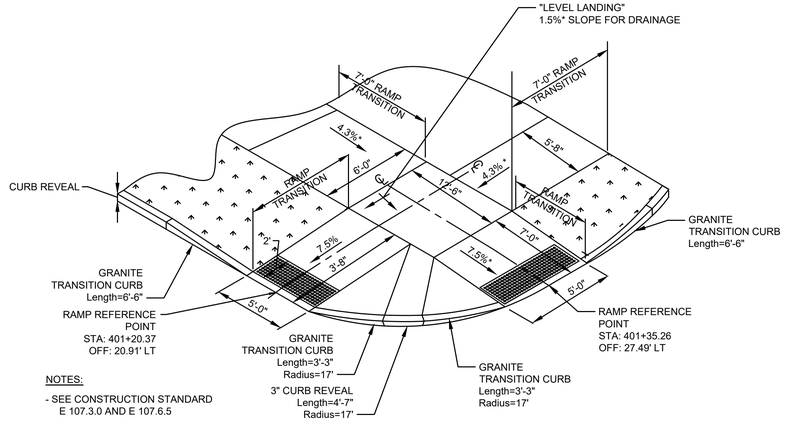
TYPE FF PEDESTRIAN CURB RAMP
N.T.S.



SECTION
N.T.S.

PCR#	RAMP REFERENCE POINT		WIDTH OF RAMP ENTRANCE (5'-0" MIN.)	CORNER RADIUS	RAMP TRANSITION LENGTH (W1)	GRADE OF RAMP (G1)	LEVEL LANDING WIDTH (W2)	LEFT SIDE CURB TRANSITION					RIGHT SIDE CURB TRANSITION				
	STATION/ ROADWAY	OFFSET						CURVE LENGTH	STRAIGHT LENGTH	PC/PT CURB REVEAL	ROADWAY GUTTER GRADE	CURB REVEAL	CURVE LENGTH	STRAIGHT LENGTH	PC/PT CURB REVEAL	ROADWAY GUTTER GRADE	CURB REVEAL
FF1	19+04.48 SUMNER AVE	32.00' RT	6'-0"	-	8'-0"	2.40%	10'-0"	-	7'-0"	-	-0.08%	6"	-	7'-0"	-	0.08%	6"

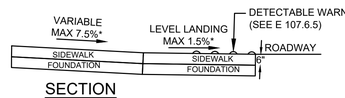
(-) REPRESENTS THE LOW SIDE TRANSITION



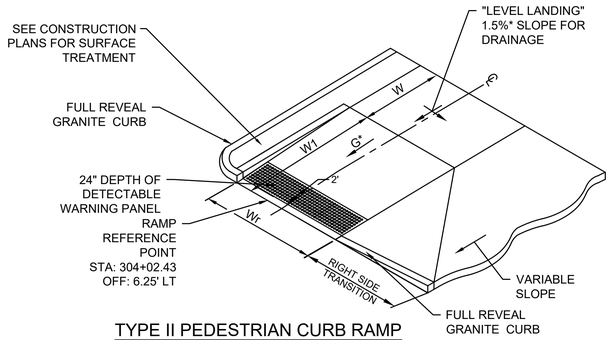
NOTES:
- SEE CONSTRUCTION STANDARD E 107.3.0 AND E 107.6.5

* CONSTRUCTION TOLERANCE ± 0.5%

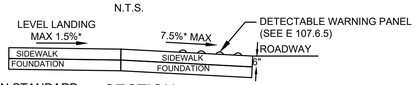
TYPE GG1 PEDESTRIAN CURB RAMP
N.T.S.



SECTION
N.T.S.



TYPE II PEDESTRIAN CURB RAMP
N.T.S.

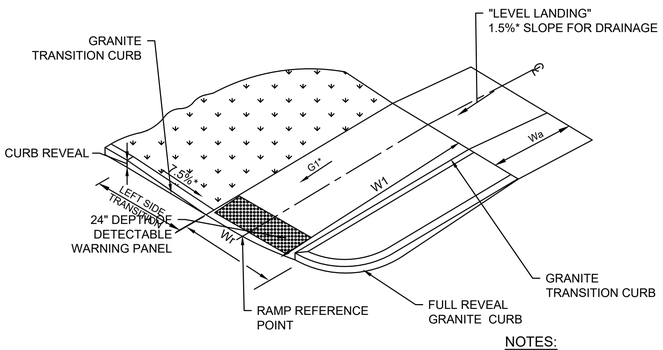


SECTION
N.T.S.

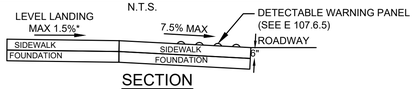
NOTES:
- SEE CONSTRUCTION STANDARD E 107.6.9 AND E 107.6.5
- * CONSTRUCTION TOLERANCE ± 0.5%

PCR#	RAMP REFERENCE POINT		WIDTH OF LEVEL LANDING (W)	WIDTH OF RAMP ENTRANCE (Wr)	LENGTH OF RAMP TRANSITION (W1)	GRADE OF RAMP TRANSITION (G1)	CURVE RADIUS	LEFT SIDE TRANSITION				
	STATION/ ROADWAY	OFFSET						CURVE LENGTH	STRAIGHT LENGTH	PC/PT CURB REVEAL	ROADWAY GUTTER GRADE	CURB REVEAL
II1	304+02.43 BELMONT AVE	06.25' LT	5'-0"	10'-0"	8'-6"	2.30%	92'-6"	3'-2"	4'-10"	4"	1.05%	6"

(-) REPRESENTS THE LOW SIDE TRANSITION



TYPE HH PEDESTRIAN CURB RAMP
N.T.S.

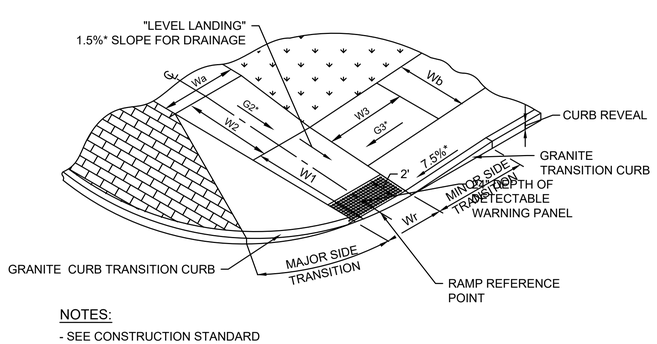


SECTION
N.T.S.

NOTES:
- SEE CONSTRUCTION STANDARD E 107.6.9 AND E 107.6.5
- * CONSTRUCTION TOLERANCE ± 0.5%

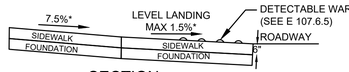
PCR#	RAMP REFERENCE POINT		WIDTH OF SIDEWALK (Ww)	WIDTH OF RAMP ENTRANCE (Ww)	LENGTH OF RAMP TRANSITION (W1)	GRADE OF RAMP TRANSITION (G1)	CORNER RADIUS	LEFT SIDE TRANSITION				
	STATION/ ROADWAY	OFFSET						CURVE LENGTH	STRAIGHT LENGTH	PC/PT CURB REVEAL	ROADWAY GUTTER GRADE	CURB REVEAL
HH1	9+26.69 SUMNER AVE	29.00' RT	8'-0"	6'-0"	13'-0"	3.20%	5'-0"	-	6'-6"	-	0.48%	6"
HH2	307+76.79 BELMONT AVE	16.00' RT	6'-0"	6'-0"	12'-9"	6.50%	N/A	-	6'-6"	-	0.31%	6"

(-) REPRESENTS THE LOW SIDE TRANSITION



NOTES:
- SEE CONSTRUCTION STANDARD E 107.3.0 AND E 107.6.5
- * CONSTRUCTION TOLERANCE ± 0.5%
- ** SIDEWALK ENDS
- *** SEE CONSTRUCTION STANDARD E 107.9.0

TYPE TT PEDESTRIAN CURB RAMP
N.T.S.



SECTION
N.T.S.

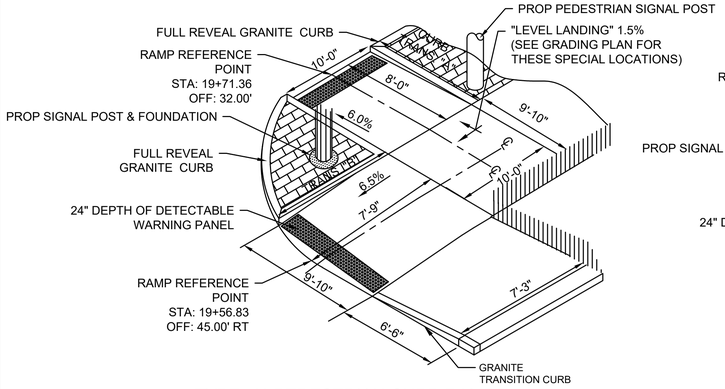
PCR#	RAMP REFERENCE POINT		WIDTH OF SIDEWALK (Ww)	WIDTH OF SIDEWALK (Ww)	LENGTH OF RAMP TRANSITION (W1)	LENGTH OF RAMP TRANSITION (W2)	LENGTH OF RAMP TRANSITION (W3)	GRADE OF RAMP TRANSITION (G2)	GRADE OF RAMP TRANSITION (G3)	CORNER RADIUS	MAJOR SIDE TRANSITION					MINOR SIDE TRANSITION				
	STATION/ ROADWAY	OFFSET									CURVE LENGTH	STRAIGHT LENGTH	PC/PT CURB REVEAL	ROADWAY GUTTER GRADE	CURB REVEAL	CURVE LENGTH	STRAIGHT LENGTH	PC/PT CURB REVEAL	ROADWAY GUTTER GRADE	CURB REVEAL
TT1	207+94.27 BURLINGTON ST	14.50' RT	5'-5"	4'-9"	5'-5"	8'-3"	8'-6"	5'-6"	7.5%	7.2%	15'	-	7'-0"	-	-0.15%	6"	-	6'-6"	-	0.15%	6"

(-) REPRESENTS THE LOW SIDE TRANSITION

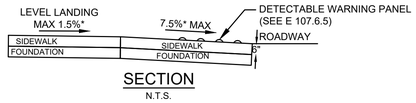
SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	230	358
PROJECT FILE NO.	608717		

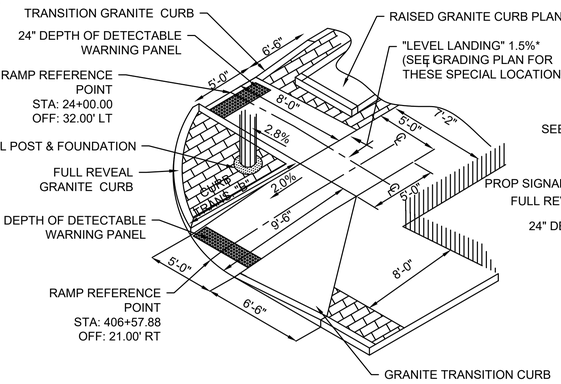
PEDESTRIAN CURB RAMP & DRIVEWAY DETAILS



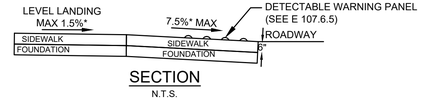
TYPE J1 PEDESTRIAN CURB RAMP
N.T.S.



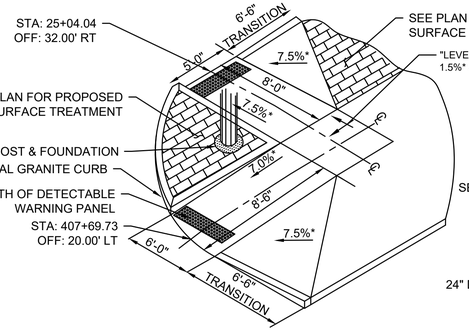
SECTION
N.T.S.

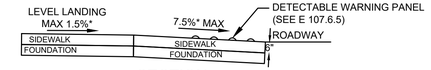


TYPE J2 MODIFIED PEDESTRIAN CURB RAMP
N.T.S.



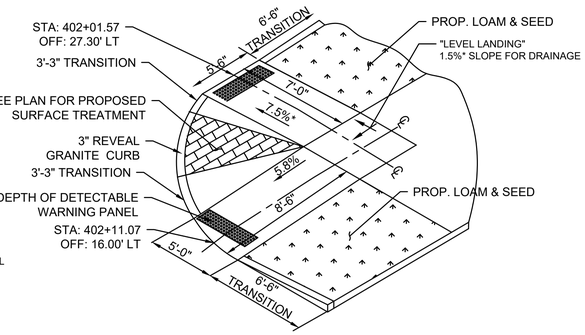
SECTION
N.T.S.

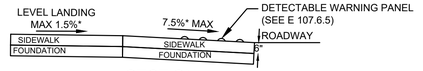




SECTION
N.T.S.

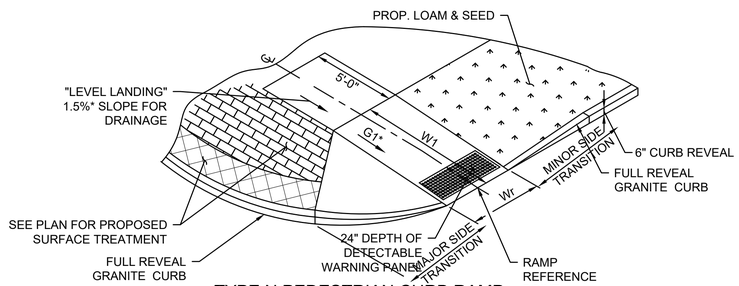
TYPE K1 PEDESTRIAN CURB RAMP
N.T.S.





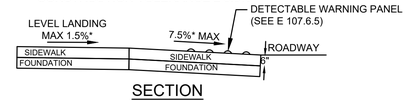
SECTION
N.T.S.

TYPE K2 PEDESTRIAN CURB RAMP
N.T.S.

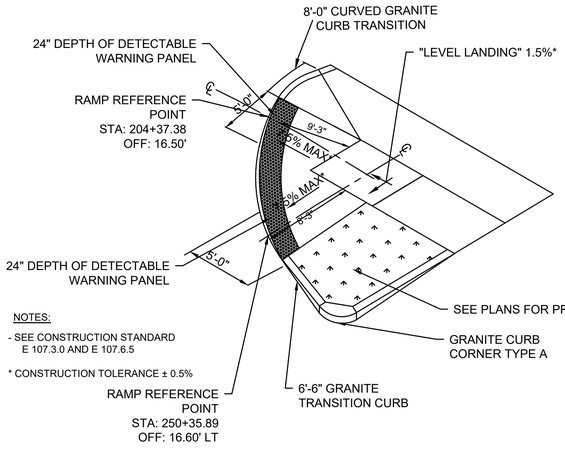


TYPE N PEDESTRIAN CURB RAMP
N.T.S.

NOTES:
- SEE CONSTRUCTION STANDARD E 107.6.9 AND E 107.6.5
- * CONSTRUCTION TOLERANCE ± 0.5%



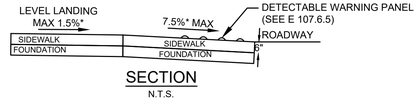
SECTION
N.T.S.



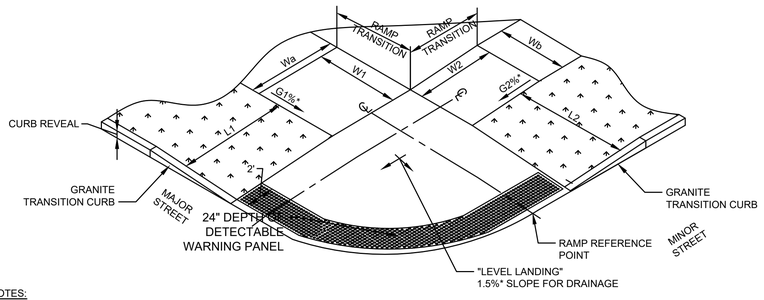
NOTES:
- SEE CONSTRUCTION STANDARD E 107.3.0 AND E 107.6.5

* CONSTRUCTION TOLERANCE ± 0.5%

TYPE L1 PEDESTRIAN CURB RAMP
N.T.S.



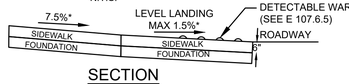
SECTION
N.T.S.



NOTES:
- SEE CONSTRUCTION STANDARD E 107.3.0 AND E 107.6.5

* CONSTRUCTION TOLERANCE ± 0.5%

TYPE M PEDESTRIAN CURB RAMP
N.T.S.



SECTION
N.T.S.

PCR#	RAMP REFERENCE POINT		WIDTH OF SIDEWALK (Wa)	WIDTH OF SIDEWALK (Wb)	LENGTH OF RAMP (W1)	LENGTH OF TRANSITION RAMP (W2)	GRADE OF RAMP (G1)	GRADE OF RAMP (G2)	BUFFER WIDTH (L1)	BUFFER WIDTH (L2)	CORNER RADIUS	MAJOR STREET TRANSITION					MINOR STREET TRANSITION				
	STATION/ ROADWAY	OFFSET										CURB CURVE LENGTH	CURB STRAIGHT LENGTH	PC/PT CURB REVEAL	ROADWAY GUTTER GRADE	CURB REVEAL	CURB CURVE LENGTH	CURB STRAIGHT LENGTH	PC/PT CURB REVEAL	ROADWAY GUTTER GRADE	CURB REVEAL
M1	08+53.41 SUMNER AVE	24.00' LT	8'-0"	8'-0"	3'-0"	6'-6"	5.3%	7.4%	12'-6"	8'-1"	30'	6'-6"	-	-	-0.50%	6"	7'-6"	-	-	0.41%	6"
M2	11+59.00 SUMNER AVE	46.00' LT	8'-0"	6'-0"	3'-0"	6'-6"	6.5%	7.1%	12'-6"	3'-5"	25'	6'-6"	-	-	-0.50%	6"	4'-0"	2'-5"	4'-0"	-0.75%	6"

(-) REPRESENTS THE LOW SIDE TRANSITION

PCR#	RAMP REFERENCE POINT		WIDTH OF RAMP ENTRANCE (Wr = 5'-0" MIN.)	LENGTH OF RAMP (W1)	GRADE OF RAMP (G1)	MAJOR SIDE TRANSITION			
	STATION/ ROADWAY	OFFSET				STRAIGHT LENGTH	CURVED LENGTH	ROADWAY GUTTER GRADE	CURB REVEAL
N1	27+50.45 SUMNER AVE	47.50' LT	6'-0"	9'-0"	7.5%	-	6'-6"	0.30%	6"

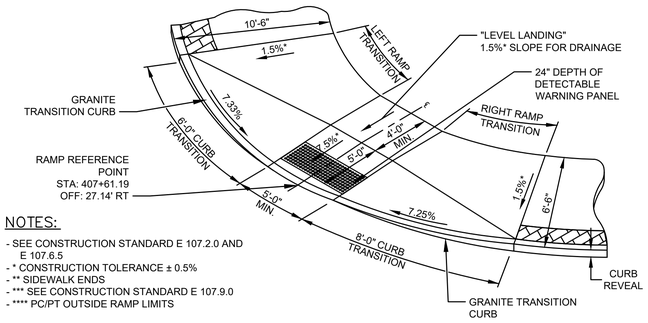
20121457A70_WCR_DET01.DWG Plotted on 5-May-2023 3:27 PM

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	231	358
	PROJECT FILE NO. 608717		

PEDESTRIAN CURB RAMP & DRIVEWAY DETAILS

20121457A70_WCR_DET01.DWG Plotted on 5-May-2023 3:27 PM

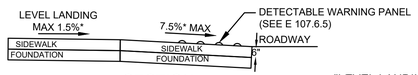


NOTES:

- SEE CONSTRUCTION STANDARD E 107.2.0 AND E 107.6.5
- * CONSTRUCTION TOLERANCE ± 0.5%
- ** SIDEWALK ENDS
- *** SEE CONSTRUCTION STANDARD E 107.9.0
- **** PC/PT OUTSIDE RAMP LIMITS

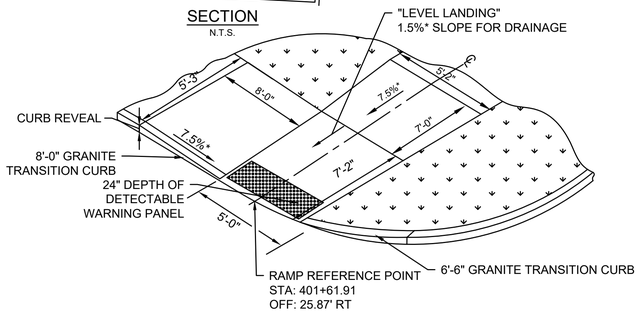
TYPE O1 PEDESTRIAN CURB RAMP

N.T.S.



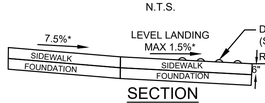
SECTION

N.T.S.



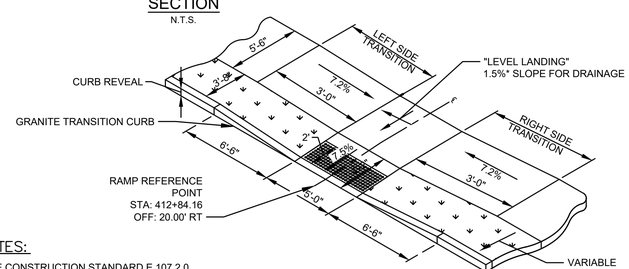
TYPE R1 PEDESTRIAN CURB RAMP

N.T.S.



SECTION

N.T.S.

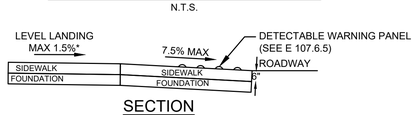


NOTES:

- SEE CONSTRUCTION STANDARD E 107.2.0 AND E 107.6.5
- * CONSTRUCTION TOLERANCE ± 0.5%

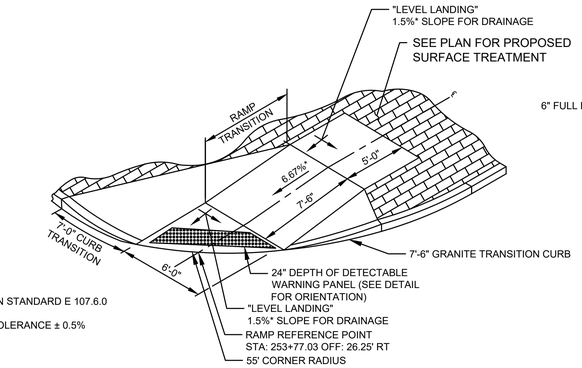
TYPE S1 PEDESTRIAN CURB RAMP

N.T.S.



SECTION

N.T.S.

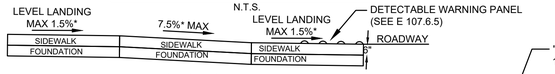


NOTES:

- SEE CONSTRUCTION STANDARD E 107.6.0 AND E 107.6.5
- * CONSTRUCTION TOLERANCE ± 0.5%

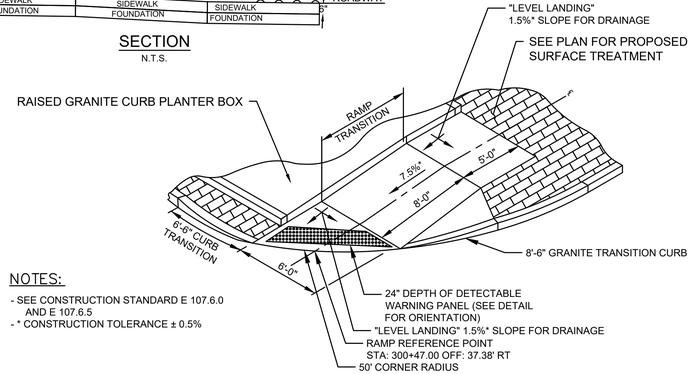
TYPE P1 PEDESTRIAN CURB RAMP

N.T.S.



SECTION

N.T.S.

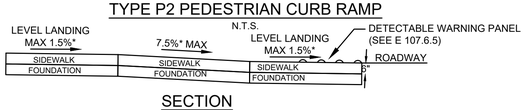


NOTES:

- SEE CONSTRUCTION STANDARD E 107.6.0 AND E 107.6.5
- * CONSTRUCTION TOLERANCE ± 0.5%

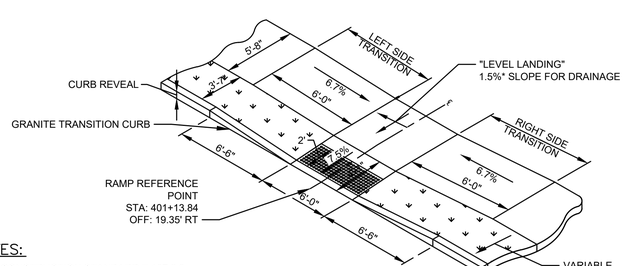
TYPE P2 PEDESTRIAN CURB RAMP

N.T.S.



SECTION

N.T.S.

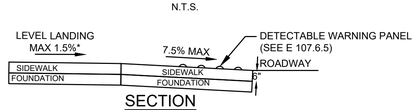


NOTES:

- SEE CONSTRUCTION STANDARD E 107.2.0 AND E 107.6.5
- * CONSTRUCTION TOLERANCE ± 0.5%

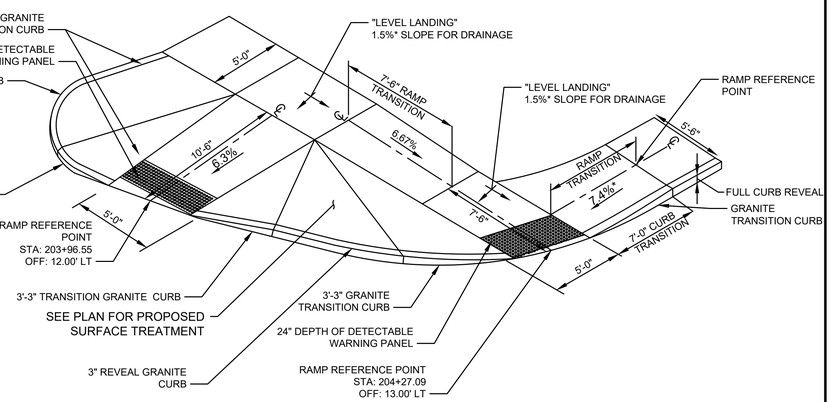
TYPE S2 PEDESTRIAN CURB RAMP

N.T.S.



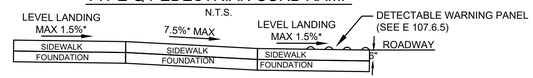
SECTION

N.T.S.



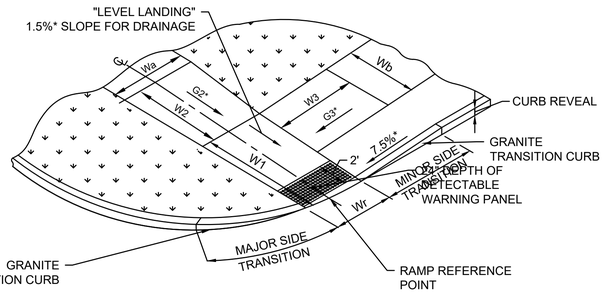
TYPE Q PEDESTRIAN CURB RAMP

N.T.S.



SECTION

N.T.S.

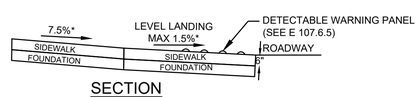


NOTES:

- SEE CONSTRUCTION STANDARD E 107.3.0 AND E 107.6.5
- * CONSTRUCTION TOLERANCE ± 0.5%
- ** SIDEWALK ENDS
- *** SEE CONSTRUCTION STANDARD E 107.9.0

TYPE T PEDESTRIAN CURB RAMP

N.T.S.



SECTION

N.T.S.

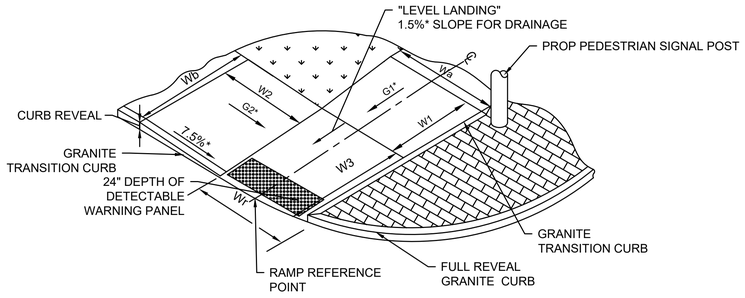
PCR#	RAMP REFERENCE POINT		WIDTH OF SIDEWALK (Wa)	WIDTH OF SIDEWALK (Wb)	WIDTH OF RAMP ENTRANCE (Wr)	LENGTH OF RAMP TRANSITION (W1)	LENGTH OF RAMP TRANSITION (W2)	LENGTH OF RAMP TRANSITION (W3)	GRADE OF RAMP TRANSITION (G2)	GRADE OF RAMP TRANSITION (G3)	CORNER RADIUS	MAJOR SIDE TRANSITION					MINOR SIDE TRANSITION				
	STATION/ ROADWAY	OFFSET										CURVE LENGTH	STRAIGHT LENGTH	PC/PT CURB REVEAL	ROADWAY GUTTER GRADE	CURB REVEAL	CURVE LENGTH	STRAIGHT LENGTH	PC/PT CURB REVEAL	ROADWAY GUTTER GRADE	CURB REVEAL
T1	500+46.94 ORMOND ST	15.00' RT	5'-11"	5'-5"	5'-11"	9'-6"	3'-0"	3'-0"	5.9%	3.0%	20'	6'-6"	-	-	1.2%	6"	-	6'-0"	-	-1.2%	6"
T2	500+46.94 ORMOND ST	16.74' LT	6'-1"	5'-0"	6'-1"	6'-9"	10'-6"	9'-6"	7.4%	7.4%	30'	6'-6"	-	-	1.2%	6"	6'-0"	-	-	-1.2%	6"

(-) REPRESENTS THE LOW SIDE TRANSITION

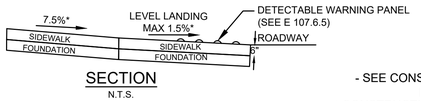
SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	232	358
	PROJECT FILE NO. 608717		

PEDESTRIAN CURB RAMP & DRIVEWAY DETAILS



TYPE U PEDESTRIAN CURB RAMP
N.T.S.

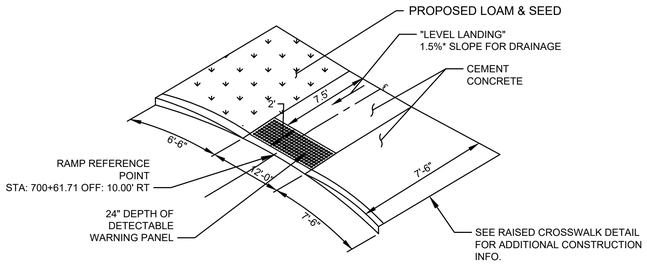


SECTION
N.T.S.

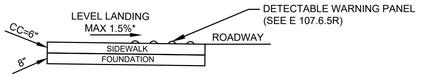
NOTES:
- SEE CONSTRUCTION STANDARD E 107.3.0 AND E 107.6.5
- * CONSTRUCTION TOLERANCE ± 0.5%
- ** SIDEWALK ENDS
- *** SEE CONSTRUCTION STANDARD E 107.9.0

PCR#	RAMP REFERENCE POINT		WIDTH OF SIDEWALK (Wa)	WIDTH OF SIDEWALK (Wb)	WIDTH OF RAMP ENTRANCE (Wt)	LENGTH OF RAMP TRANSITION (W1)	LENGTH OF RAMP TRANSITION (W2)	LENGTH OF RAMP TRANSITION (W3)	GRADE OF RAMP TRANSITION (G1)	GRADE OF RAMP TRANSITION (G2)	CORNER RADIUS	MINOR SIDE TRANSITION				
	STATION/ ROADWAY	OFFSET										CURVE LENGTH	STRAIGHT LENGTH	PCDPT CURB REVEAL	ROADWAY GUTTER GRADE	CURB REVEAL
U1	19+32.93 SUMNER AVE	45.00' RT	9'-11"	7'-0"	9'-11"	6'-0"	6'-6"	8'-0"	6.3%	7.2%	12'	-	6'-0"	-	-0.6%	6"

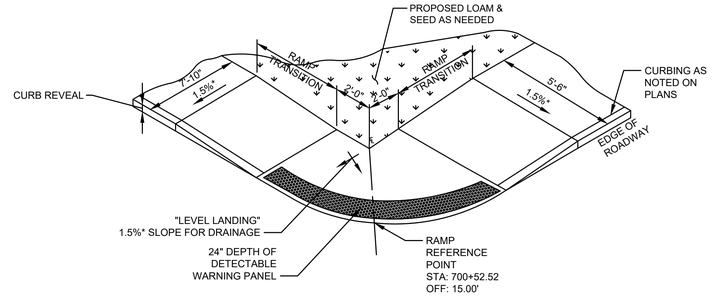
(-) REPRESENTS THE LOW SIDE TRANSITION



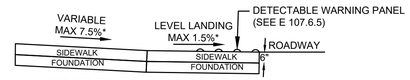
TYPE V1 PEDESTRIAN CURB RAMP
N.T.S.



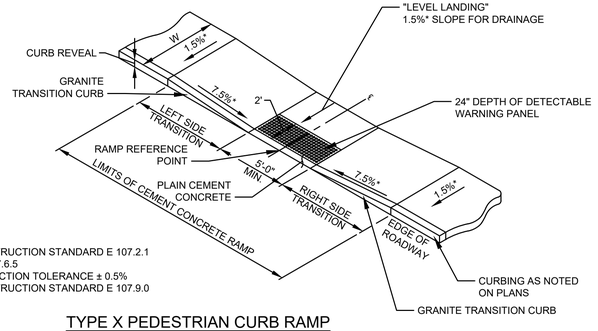
SECTION
N.T.S.



TYPE W PEDESTRIAN CURB RAMP
N.T.S.

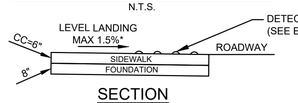


SECTION
N.T.S.



NOTES:
- SEE CONSTRUCTION STANDARD E 107.2.1 AND E 107.6.5
- * CONSTRUCTION TOLERANCE ± 0.5%
- SEE CONSTRUCTION STANDARD E 107.9.0

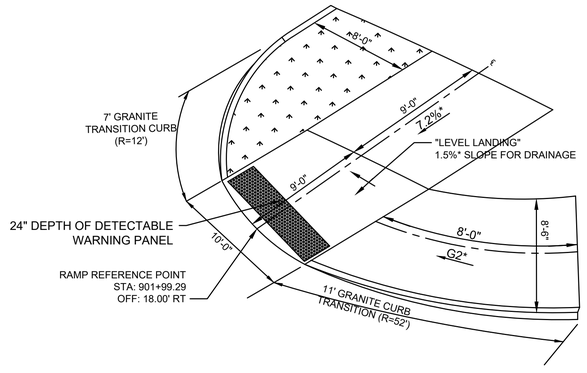
TYPE X PEDESTRIAN CURB RAMP
N.T.S.



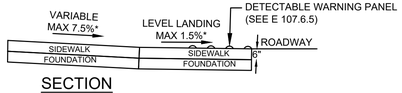
SECTION
N.T.S.

PCR#	RAMP REFERENCE POINT		WIDTH OF SIDEWALK (W)	WIDTH OF RAMP ENTRANCE (5'-0" MIN.)	LEFT SIDE TRANSITION			RIGHT SIDE TRANSITION		
	STATION/ ROADWAY	OFFSET			LENGTH	ROADWAY GUTTER GRADE	CURB REVEAL	LENGTH	ROADWAY GUTTER GRADE	CURB REVEAL
X1	24+00.00 SUMNER AVE	43.00' RT	7'-0"	5'-0"	6'-6"	0.10%	6"	6'-6"	-0.10%	6"
X2	901+97.76 COMMONWEALTH AVE	21.25' LT	10'-0"	10'-0"	7'-6"	0.40%	6"	6'-6"	-0.40%	6"
X3	702+88.51 CLIFTWOOD STREET	30.87' LT	7'-6"	5'-0"	7'-0"	0.10%	6"	7'-0"	-0.10%	6"
X4	703+11.02 CLIFTWOOD STREET	32.00' LT	6'-0"	5'-0"	7'-0"	-0.10%	6"	7'-0"	0.10%	6"

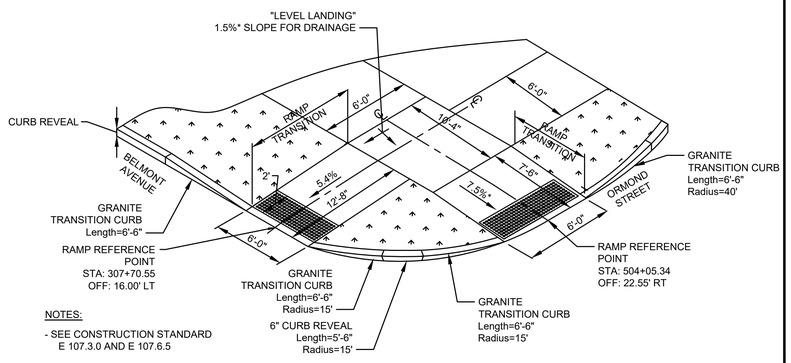
(-) REPRESENTS THE LOW SIDE TRANSITION



TYPE Y1 PEDESTRIAN CURB RAMP
N.T.S.



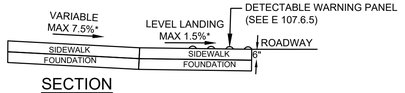
SECTION
N.T.S.



NOTES:
- SEE CONSTRUCTION STANDARD E 107.3.0 AND E 107.6.5

* CONSTRUCTION TOLERANCE ± 0.5%

TYPE Z1 PEDESTRIAN CURB RAMP
N.T.S.



SECTION
N.T.S.

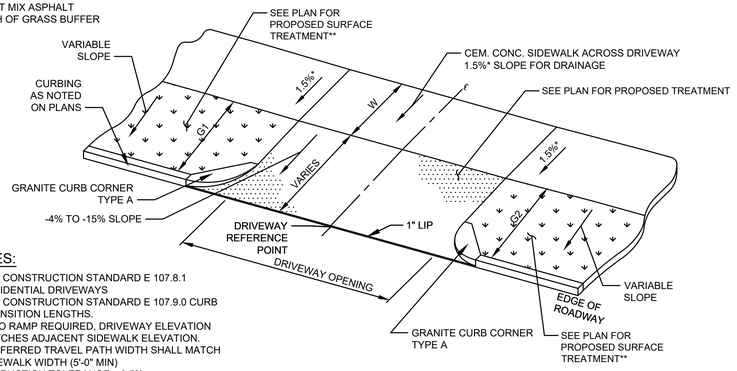
20121457A70_IWCR_DET01.DWG Plotted on 5-May-2023 3:27 PM

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	233	358
	PROJECT FILE NO. 608717		

PEDESTRIAN CURB RAMP & DRIVEWAY DETAILS

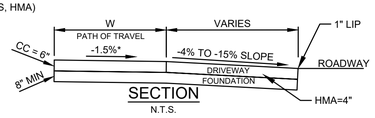
20121457A70_WCR_DET01.DWG Plotted on 5-May-2023 3:27 PM

LEGEND:
W = SIDEWALK WIDTH
CC = CEMENT CONCRETE
HMA = HOT MIX ASPHALT
G = WIDTH OF GRASS BUFFER



NOTES:
1. SEE CONSTRUCTION STANDARD E 107.8.1 RESIDENTIAL DRIVEWAYS
2. SEE CONSTRUCTION STANDARD E 107.9.0 CURB TRANSITION LENGTHS.
3. IF NO RAMP REQUIRED, DRIVEWAY ELEVATION MATCHES ADJACENT SIDEWALK ELEVATION.
4. PREFERRED TRAVEL PATH WIDTH SHALL MATCH SIDEWALK WIDTH (5'-0" MIN)

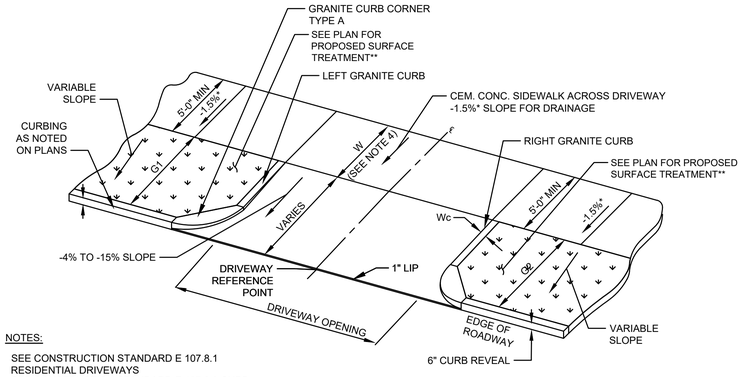
* CONSTRUCTION TOLERANCE ± 0.5%
**SEE PLAN FOR TREATMENT (GRASS, PAVERS, HMA)



SECTION
N.T.S.

SIDEWALK THROUGH DRIVEWAYS WITH A WIDE BUFFER STRIP - TYPE 1
N.T.S.

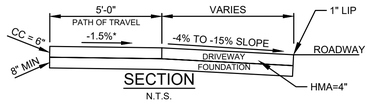
DR#	DRIVEWAY REFERENCE POINT		WIDTH OF SIDEWALK (W)	WIDTH OF BUFFER STRIP (G1)	WIDTH OF BUFFER STRIP (G2)
	STATION/ ROADWAY	OFFSET			
1-1	1+71.00 SUMNER AVE	29.00' LT	8'-0"	12'-6"	12'-6"
1-2	5+85.64 SUMNER AVE	29.00' LT	8'-0"	12'-6"	12'-6"
1-3	9+75.04 SUMNER AVE	29.00' LT	8'-0"	12'-6"	12'-6"
1-4	10+78.42 SUMNER AVE	29.00' LT	8'-0"	12'-6"	12'-6"
1-5	13+05.45 SUMNER AVE	29.00' LT	8'-0"	12'-6"	12'-6"
1-6	13+98.31 SUMNER AVE	29.00' LT	8'-0"	12'-6"	12'-6"
1-7	14+74.04 SUMNER AVE	29.00' RT	8'-0"	12'-6"	12'-6"
1-8	15+75.75 SUMNER AVE	29.00' RT	8'-0"	12'-6"	12'-6"
1-9	16+28.69 SUMNER AVE	29.00' LT	8'-0"	12'-6"	12'-6"
1-10	17+00.00 SUMNER AVE	29.00' LT	8'-0"	12'-6"	12'-6"
1-11	17+70.41 SUMNER AVE	29.00' LT	8'-0"	12'-6"	12'-6"
1-12	19+97.11 SUMNER AVE	32.00' LT	6'-0"	11'-6"	11'-6"
1-13	27+63.22 SUMNER AVE	31.00' LT	6'-0"	13'-6"	12'-0"
1-14	28+25.20 SUMNER AVE	29.00' RT	6'-0"	14'-2"	15'-0"
1-15	28+63.23 SUMNER AVE	27.50' LT	6'-0"	15'-6"	16'-4"
1-16	29+21.36 SUMNER AVE	27.00' LT	6'-0"	16'-6"	16'-6"
1-17	30+23.35 SUMNER AVE	27.00' LT	6'-0"	16'-6"	16'-6"
1-18	33+32.32 SUMNER AVE	27.00' LT	6'-0"	16'-4"	16'-4"
1-19	34+27.32 SUMNER AVE	27.00' RT	6'-0"	16'-4"	16'-4"
1-20	901+61.10 COMMONWEALTH AVE	15.00' LT	6'-0"	3'-6"	3'-6"



NOTES:
1. SEE CONSTRUCTION STANDARD E 107.8.1 RESIDENTIAL DRIVEWAYS
2. SEE CONSTRUCTION STANDARD E 107.9.0 CURB TRANSITION LENGTHS.
3. IF NO RAMP REQUIRED, DRIVEWAY ELEVATION MATCHES ADJACENT SIDEWALK ELEVATION.
4. PREFERRED TRAVEL PATH WIDTH SHALL MATCH SIDEWALK WIDTH (5'-0" MIN)

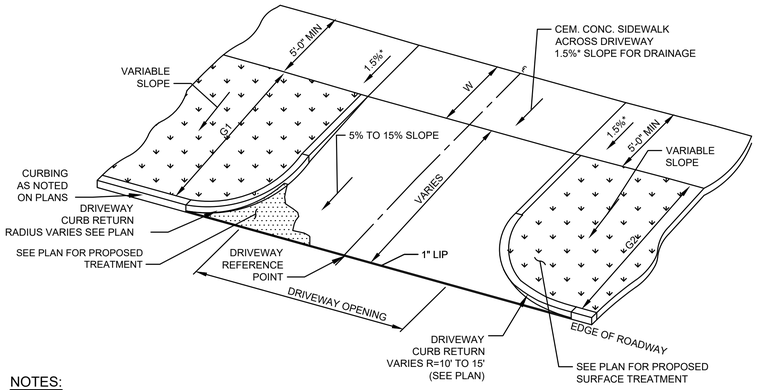
* CONSTRUCTION TOLERANCE ± 0.5%
**SEE PLAN FOR TREATMENT (GRASS, PAVERS, HMA)

SIDEWALK THROUGH DRIVEWAYS TYPE 2
N.T.S.



SECTION
N.T.S.

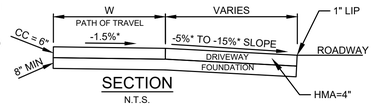
DR#	DRIVEWAY REFERENCE POINT		WIDTH OF SIDEWALK (W2)	WIDTH OF BUFFER STRIP (G1)	WIDTH OF BUFFER STRIP (G2)	LEFT CURB TRANSITION LENGTH	RIGHT CURB TRANSITION LENGTH
	STATION/ ROADWAY	OFFSET					
2-1	20+64.72 SUMNER AVE	32.00' LT	6'-0"	11'-6"	11'-6"	10'-0"	10'-0"
2-2	21+19.27 SUMNER AVE	32.00' LT	6'-0"	11'-6"	11'-6"	10'-0"	10'-0"
2-3	201+06.60 BELMONT AVE	20.14' LT	5'-6"	3'-9"	4'-0"	2'-3"	2'-6"
2-4	201+55.84 BELMONT AVE	20.20' LT	5'-0"	4'-3"	4'-3"	2'-9"	2'-9"
2-5	202+26.34 BELMONT AVE	20.25' LT	5'-0"	4'-2"	4'-2"	2'-8"	2'-8"
2-6	202+59.57 BELMONT AVE	20.18' RT	5'-0"	4'-2"	4'-0"	2'-6"	2'-6"
2-7	301+69.46 BELMONT AVE	19.00' RT	8'-3"	7'-0"	7'-0"	5'-6"	5'-6"
2-8	302+97.13 BELMONT AVE	19.00' RT	8'-3"	7'-0"	7'-0"	5'-6"	5'-6"
2-9	307+64.29 BELMONT AVE	16.00' RT	6'-0"	12'-3"	12'-3"	10'-9"	11'-7"
2-10	403+11.75 DICKINSON ST	16.00' RT	VARIES	7'-6"	7'-6"	6'-3"	5'-10"
2-11	403+41.59 DICKINSON ST	17.50' LT	5'-6"	7'-0"	6'-2"	5'-4"	4'-10"
2-12	403+92.31 DICKINSON ST	19.50' LT	5'-0"	5'-7"	4'-6"	4'-2"	3'-1"
2-13	403+93.53 DICKINSON ST	16.00' RT	5'-10"	7'-6"	7'-6"	6'-0"	6'-0"
2-14	404+44.41 DICKINSON ST	20.00' LT	5'-0"	4'-6"	4'-6"	3'-0"	3'-0"
2-15	405+11.81 DICKINSON ST	20.00' LT	5'-0"	4'-6"	4'-6"	3'-0"	3'-0"
2-16	409+71.93 DICKINSON ST	19.33' RT	6'-3"	7'-4"	5'-4"	5'-10"	3'-10"
2-17	410+76.07 DICKINSON ST	16.00' LT	5'-3"	6'-6"	6'-6"	5'-0"	5'-0"
2-18	411+69.15 DICKINSON ST	16.00' LT	VARIES	6'-9"	7'-8"	5'-3"	6'-2"
2-19	500+98.70 ORMOND ST	15.00' LT	5'-0"	4'-3"	4'-3"	2'-9"	2'-9"
2-20	501+32.81 ORMOND ST	15.00' LT	5'-0"	4'-3"	4'-3"	2'-9"	2'-9"
2-21	501+90.94 ORMOND ST	15.00' LT	5'-0"	4'-3"	4'-3"	2'-9"	2'-9"
2-22	502+45.09 ORMOND ST	15.00' LT	5'-0"	4'-3"	4'-3"	2'-9"	2'-9"
2-23	502+93.61 ORMOND ST	15.00' LT	5'-0"	4'-3"	4'-3"	2'-9"	2'-9"
2-24	503+41.05 ORMOND ST	15.00' LT	5'-0"	4'-3"	4'-3"	2'-9"	2'-9"
2-25	503+60.48 ORMOND ST	15.00' LT	5'-0"	4'-3"	4'-3"	2'-9"	2'-9"
2-26	603+70.76 OAKLAND ST	20.00' LT	6'-0"	3'-6"	3'-6"	2'-0"	2'-0"



NOTES:
1. SEE CONSTRUCTION STANDARD E 107.8.1 RESIDENTIAL DRIVEWAYS
2. SEE CONSTRUCTION STANDARD E 107.9.0 CURB TRANSITION LENGTHS.
3. IF NO RAMP REQUIRED, DRIVEWAY ELEVATION MATCHES ADJACENT SIDEWALK ELEVATION.
4. PREFERRED TRAVEL PATH WIDTH SHALL MATCH SIDEWALK WIDTH (5'-0" MIN)

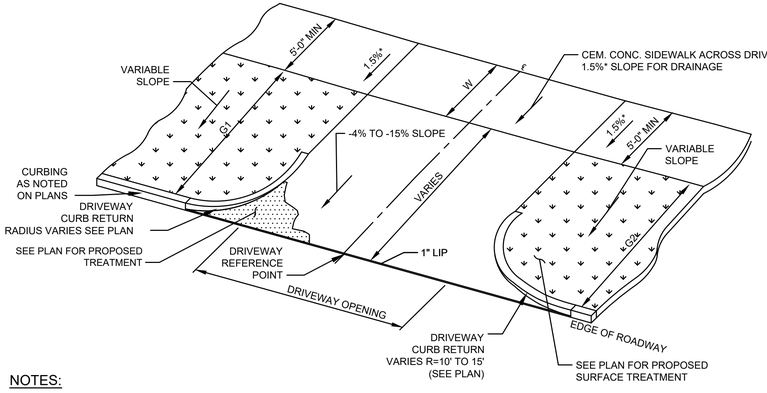
* CONSTRUCTION TOLERANCE ± 0.5%
**SEE PLAN FOR TREATMENT (GRASS, PAVERS, HMA)

SIDEWALK THROUGH DRIVEWAYS TYPE 3
N.T.S.



SECTION
N.T.S.

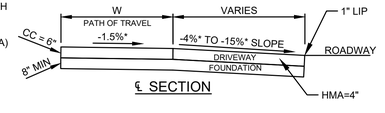
DR#	DRIVEWAY REFERENCE POINT		WIDTH OF SIDEWALK (W)	DRIVEWAY CURB RETURN	WIDTH OF BUFFER STRIP (G1)	WIDTH OF BUFFER STRIP (G2)	LEFT SIDE CURVE TRANSITION LENGTH	LEFT SIDE STRAIGHT TRANSITION LENGTH	RIGHT SIDE CURVE TRANSITION LENGTH	RIGHT SIDE STRAIGHT TRANSITION LENGTH
	STATION/ ROADWAY	OFFSET								
3-1	09+11.71 SUMNER AVE	29.00' RT	8'-0"	R=5'	12'-6"	12'-6"	7'-10"	8'-0"	7'-10"	8'-0"
3-2	32+51.21 SUMNER AVE	27.00' LT	6'-0"	R=10'	16'-6"	16'-6"	15'-9"	7'-0"	15'-9"	7'-0"
3-3	250+30.70 BELMONT AVE	8.50' RT	5'-0"	R=10'	16'-0"	13'-9"	9'-5"	8'-7"	7'-0"	8'-1"
3-4	303+73.28 BELMONT AVE	7.37' LT	6'-9"	R=5'	20'-0"	21'-8"	7'-10"	15'-10"	4'-0"	16'-8"



NOTES:
1. SEE CONSTRUCTION STANDARD E 107.8.1 RESIDENTIAL DRIVEWAYS
2. SEE CONSTRUCTION STANDARD E 107.9.0 CURB TRANSITION LENGTHS.
3. IF NO RAMP REQUIRED, DRIVEWAY ELEVATION MATCHES ADJACENT SIDEWALK ELEVATION.
4. PREFERRED TRAVEL PATH WIDTH SHALL MATCH SIDEWALK WIDTH (5'-0" MIN)

* CONSTRUCTION TOLERANCE ± 0.5%
**SEE PLAN FOR TREATMENT (GRASS, PAVERS, HMA)

SIDEWALK THROUGH DRIVEWAYS TYPE 4
N.T.S.



℄ SECTION

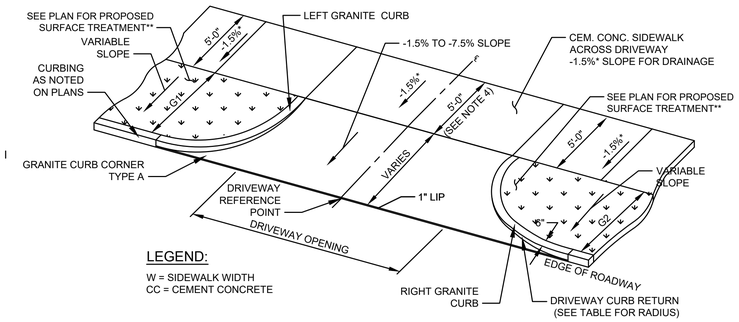
DR#	DRIVEWAY REFERENCE POINT		WIDTH OF SIDEWALK (W)	DRIVEWAY CURB RETURN	WIDTH OF BUFFER STRIP (G1)	WIDTH OF BUFFER STRIP (G2)	LEFT SIDE CURVE TRANSITION LENGTH	RIGHT SIDE CURVE TRANSITION LENGTH
	STATION/ ROADWAY	OFFSET						
4-1	03+21.29 SUMNER AVE	29.00' RT	8'-0"	R=5'	12'-6"	12'-6"	7'-10"	7'-10"
4-2	29+27.23 SUMNER AVE	27.00' RT	5'-11"	R=10'	16'-6"	16'-6"	15'-9"	15'-9"
4-3	30+32.81 SUMNER AVE	27.00' RT	5'-11"	R=10'	16'-6"	16'-6"	15'-9"	15'-9"

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	234	358
	PROJECT FILE NO. 608717		

PEDESTRIAN CURB RAMP & DRIVEWAY DETAILS

20121457A70_WCR_DET01.DWG Plotted on 5-May-2023 3:28 PM



LEGEND:

W = SIDEWALK WIDTH
CC = CEMENT CONCRETE

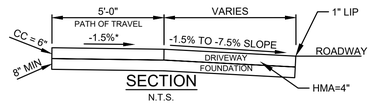
SIDEWALK THROUGH DRIVEWAYS TYPE 5

N.T.S.

NOTES:

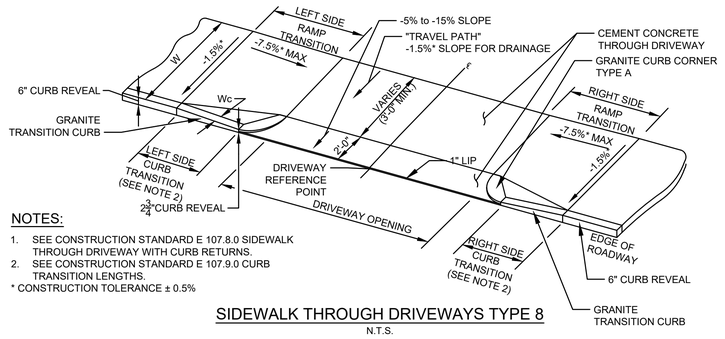
1. SEE CONSTRUCTION STANDARD E 107.8.1 RESIDENTIAL DRIVEWAYS
2. SEE CONSTRUCTION STANDARD E 107.9.0 CURB TRANSITION LENGTHS.
3. IF NO RAMP REQUIRED, DRIVEWAY ELEVATION MATCHES ADJACENT SIDEWALK ELEVATION.
4. PREFERRED TRAVEL PATH WIDTH SHALL MATCH SIDEWALK WIDTH (5'-0" MIN)

* CONSTRUCTION TOLERANCE ± 0.5%
**SEE PLAN FOR TREATMENT (GRASS, PAVERS, HMA)



SECTION
N.T.S.

DR#	DRIVEWAY REFERENCE POINT		DRIVEWAY CURB RETURN	WIDTH OF BUFFER STRIP (G1)	WIDTH OF BUFFER STRIP (G2)	LEFT SIDE TRANSITION LENGTH	RIGHT SIDE TRANSITION LENGTH
	STATION/ ROADWAY	OFFSET					
5-1	06+75.10 SUMNER AVE	29.00' LT	R=12'	12'-6"	12'-6"	19'-10"	19'-10"



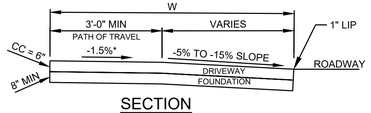
NOTES:

1. SEE CONSTRUCTION STANDARD E 107.8.0 SIDEWALK THROUGH DRIVEWAY WITH CURB RETURNS.
2. SEE CONSTRUCTION STANDARD E 107.9.0 CURB TRANSITION LENGTHS.

* CONSTRUCTION TOLERANCE ± 0.5%

SIDEWALK THROUGH DRIVEWAYS TYPE 8

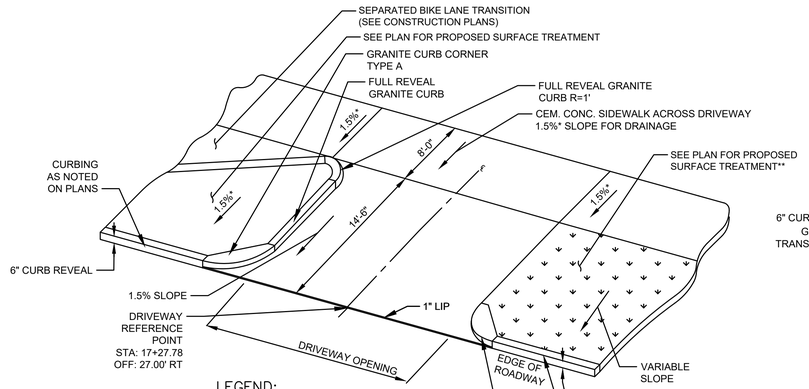
N.T.S.



SECTION
N.T.S.

DR#	DRIVEWAY REFERENCE POINT		WIDTH OF SIDEWALK (W) (INCLUDES CURB)	WIDTH OF TRAVEL PATH ACROSS OPENING (3'-0" MIN.)	GUTTER SLOPE AT REFERENCE POINT	LEFT SIDE TRANSITION			RIGHT SIDE TRANSITION		
	STATION/ ROADWAY	OFFSET				RAMP TRANSITION	CURB TRANSITION	ROADWAY GUTTER GRADE	RAMP TRANSITION	CURB TRANSITION	ROADWAY GUTTER GRADE
8-1	22+98.43 SUMNER AVE	43.00' RT	6'-4"	4'-10"	0.10%	6'-6"	4'-6"	0.10%	6'-6"	4'-6"	-0.10%
8-2	201+65.67 BELMONT AVE	20.00' RT	10'-0"	8'-0"	0.37%	7'-6"	5'-6"	0.37%	6'-6"	4'-6"	-0.37%
8-3	202+38.08 BELMONT AVE	20.00' RT	10'-0"	8'-0"	0.37%	7'-6"	5'-6"	0.37%	6'-6"	4'-6"	-0.37%
8-4	203+08.96 BELMONT AVE	20.00' RT	10'-0"	8'-0"	0.37%	7'-6"	5'-6"	0.37%	6'-6"	4'-6"	-0.37%
8-5	205+00.72 BURLINGTON ST	13.00' LT	6'-0"	4'-0"	0.40%	6'-6"	4'-6"	-0.40%	7'-6"	5'-6"	0.40%
8-6	205+39.29 BURLINGTON ST	13.40' RT	6'-0"	3'-6"	0.40%	7'-6"	5'-6"	0.40%	6'-6"	4'-6"	-0.40%
8-7	701+71.84 CLIFTWOOD ST	15.00' LT	5'-0"	3'-0"	0.13%	6'-6"	4'-6"	-0.13%	7'-0"	5'-0"	0.13%
8-8	702+57.09 CLIFTWOOD ST	15.00' LT	5'-0"	3'-0"	0.10%	6'-6"	4'-6"	-0.10%	7'-0"	5'-0"	0.10%
8-9	704+60.18 CLIFTWOOD ST	15.00' LT	5'-10"	3'-10"	0.50%	7'-6"	5'-6"	0.50%	6'-6"	4'-6"	-0.50%
8-10	705+49.03 CLIFTWOOD ST	15.00' LT	5'-10"	3'-10"	0.40%	7'-6"	5'-6"	0.40%	6'-6"	4'-6"	-0.40%

(-) REPRESENTS LOW SIDE TRANSITION



LEGEND:

W = SIDEWALK WIDTH
CC = CEMENT CONCRETE

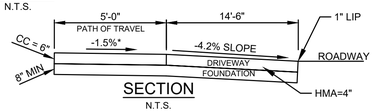
SIDEWALK THROUGH DRIVEWAYS TYPE 6-1

N.T.S.

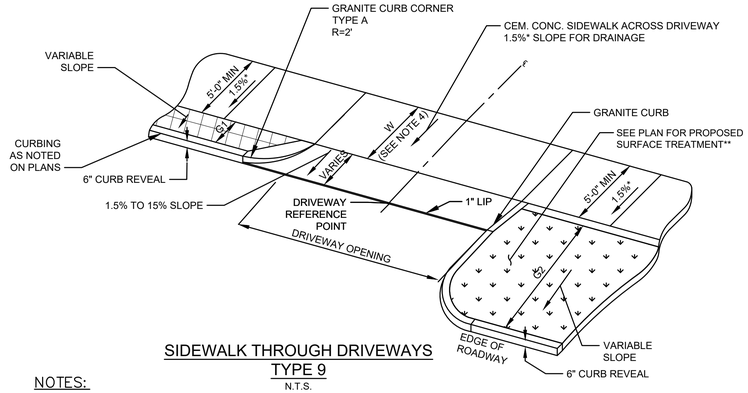
NOTES:

1. SEE CONSTRUCTION STANDARD E 107.8.1 RESIDENTIAL DRIVEWAYS
2. SEE CONSTRUCTION STANDARD E 107.9.0 CURB TRANSITION LENGTHS.
3. IF NO RAMP REQUIRED, DRIVEWAY ELEVATION MATCHES ADJACENT SIDEWALK ELEVATION.
4. PREFERRED TRAVEL PATH WIDTH SHALL MATCH SIDEWALK WIDTH (3'-0" MIN)

* CONSTRUCTION TOLERANCE ± 0.5%
**SEE PLAN FOR TREATMENT (GRASS, PAVERS, HMA)



SECTION
N.T.S.



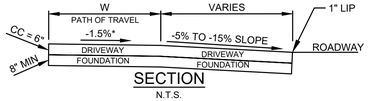
SIDEWALK THROUGH DRIVEWAYS TYPE 9

N.T.S.

NOTES:

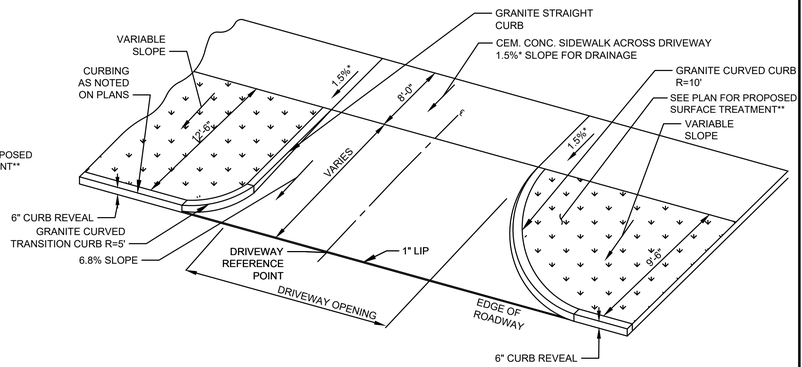
1. SEE CONSTRUCTION STANDARD E 107.8.1 RESIDENTIAL DRIVEWAYS
2. SEE CONSTRUCTION STANDARD E 107.9.0 CURB TRANSITION LENGTHS.
3. IF NO RAMP REQUIRED, DRIVEWAY ELEVATION MATCHES ADJACENT SIDEWALK ELEVATION.
4. PREFERRED TRAVEL PATH WIDTH SHALL MATCH SIDEWALK WIDTH (3'-0" MIN)

* CONSTRUCTION TOLERANCE ± 0.5%
**SEE PLAN FOR TREATMENT (GRASS, PAVERS, HMA)



SECTION
N.T.S.

DR#	DRIVEWAY REFERENCE POINT		WIDTH OF SIDEWALK (W)	WIDTH OF BUFFER STRIP (G1)	WIDTH OF BUFFER STRIP (G2)	RIGHT SIDE TRANSITION LENGTH
	STATION/ ROADWAY	OFFSET				
9-1	203+72.02 BELMONT AVE	20.30 LT	7'-4"	1'-6"	10'-6"	2'-0"



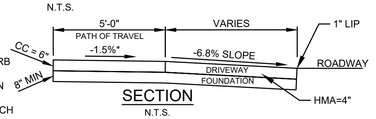
SIDEWALK THROUGH DRIVEWAYS TYPE 7

N.T.S.

NOTES:

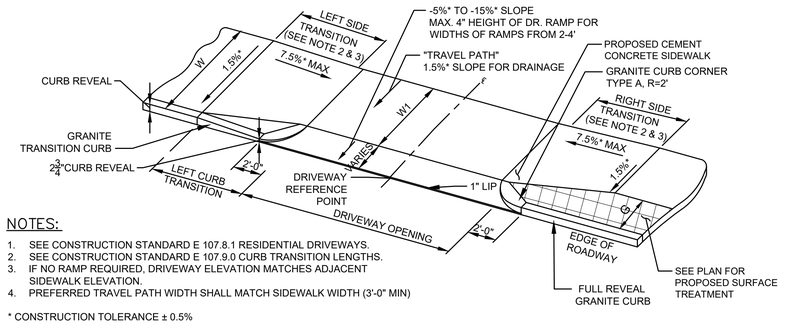
1. SEE CONSTRUCTION STANDARD E 107.8.1 RESIDENTIAL DRIVEWAYS
2. SEE CONSTRUCTION STANDARD E 107.9.0 CURB TRANSITION LENGTHS.
3. IF NO RAMP REQUIRED, DRIVEWAY ELEVATION MATCHES ADJACENT SIDEWALK ELEVATION.
4. PREFERRED TRAVEL PATH WIDTH SHALL MATCH SIDEWALK WIDTH (3'-0" MIN)

* CONSTRUCTION TOLERANCE ± 0.5%
**SEE PLAN FOR TREATMENT (GRASS, PAVERS, HMA)



SECTION
N.T.S.

DR#	DRIVEWAY REFERENCE POINT		LEFT SIDE CURVED TRANSITION LENGTH	LEFT SIDE STRAIGHT TRANSITION LENGTH	RIGHT SIDE CURVED TRANSITION LENGTH
	STATION/ ROADWAY	OFFSET			
7-1	19+31.22 SUMNER AVE	30.50 LT	7'-10"	8'-0"	15'-9"



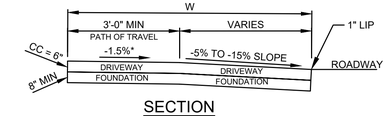
NOTES:

1. SEE CONSTRUCTION STANDARD E 107.8.1 RESIDENTIAL DRIVEWAYS.
2. SEE CONSTRUCTION STANDARD E 107.9.0 CURB TRANSITION LENGTHS.
3. IF NO RAMP REQUIRED, DRIVEWAY ELEVATION MATCHES ADJACENT SIDEWALK ELEVATION.
4. PREFERRED TRAVEL PATH WIDTH SHALL MATCH SIDEWALK WIDTH (3'-0" MIN)

* CONSTRUCTION TOLERANCE ± 0.5%

SIDEWALK THROUGH DRIVEWAYS TYPE 10

N.T.S.



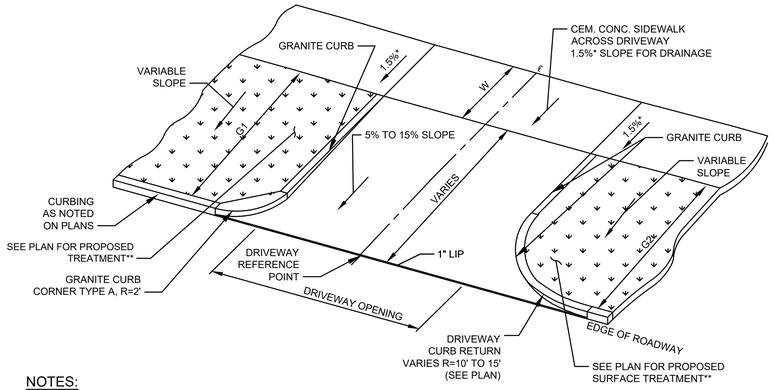
SECTION
N.T.S.

DR#	DR REFERENCE POINT		LEFT WIDTH OF SIDEWALK (W)	RIGHT WIDTH OF SIDEWALK (W)	WIDTH OF BUFFER STRIP (G)	WIDTH OF TRAVEL PATH ACROSS OPENING (3'-0" MIN.)	LEFT SIDE TRANSITION			
	STATION/ ROADWAY	OFFSET					CURB LENGTH	ROADWAY GUTTER GRADE	CURB REVEAL	RAMP LENGTH
10-1	205+45.06 BURLINGTON ST	14.90' LT	7'-6"	5'-6"	2'-6"	5'-6"	6'-6"	-0.40%	6"	6'-6"
10-2	700+42.43 CLIFTWOOD ST	10.40' RT	7'-6"	5'-0"	2'-0"	5'-6"	6'-6"	-0.66%	6"	6'-6"

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	235	358
	PROJECT FILE NO.	608717	

PEDESTRIAN CURB RAMP & DRIVEWAY DETAILS



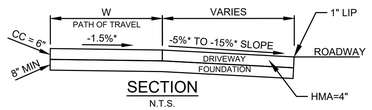
NOTES:

1. SEE CONSTRUCTION STANDARD E 107.8.1 RESIDENTIAL DRIVEWAYS
2. SEE CONSTRUCTION STANDARD E 107.9.0 CURB TRANSITION LENGTHS.
3. IF NO RAMP REQUIRED, DRIVEWAY ELEVATION MATCHES ADJACENT SIDEWALK ELEVATION.
4. PREFERRED TRAVEL PATH WIDTH SHALL MATCH SIDEWALK WIDTH (5'-0" MIN)

* CONSTRUCTION TOLERANCE ± 0.5%
**SEE PLAN FOR TREATMENT (GRASS, PAVERS, HMA)

SIDEWALK THROUGH DRIVEWAYS TYPE 11

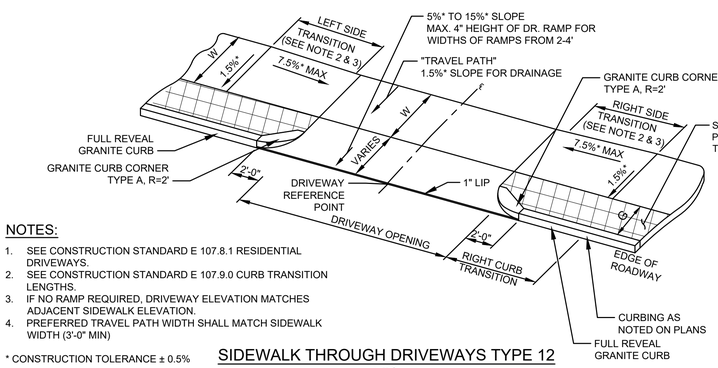
N.T.S.



SECTION

N.T.S.

DR#	DRIVEWAY REFERENCE POINT		WIDTH OF SIDEWALK (W)	DRIVEWAY CURB RETURN	WIDTH OF BUFFER STRIP (G1)	WIDTH OF BUFFER STRIP (G2)	LEFT SIDE STRAIGHT TRANSITION LENGTH	RIGHT SIDE CURVE TRANSITION LENGTH	RIGHT SIDE STRAIGHT TRANSITION LENGTH
	STATION/ ROADWAY	OFFSET							
11-1	250+52.57 BELMONT AVE	12.00' LT	7'-0"	R=3'	10'-6"	12'-0"	9'-0"	4'-3"	9'-10"



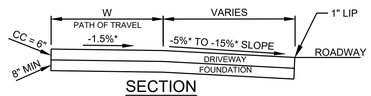
NOTES:

1. SEE CONSTRUCTION STANDARD E 107.8.1 RESIDENTIAL DRIVEWAYS.
2. SEE CONSTRUCTION STANDARD E 107.9.0 CURB TRANSITION LENGTHS.
3. IF NO RAMP REQUIRED, DRIVEWAY ELEVATION MATCHES ADJACENT SIDEWALK ELEVATION.
4. PREFERRED TRAVEL PATH WIDTH SHALL MATCH SIDEWALK WIDTH (3'-0" MIN)

* CONSTRUCTION TOLERANCE ± 0.5%

SIDEWALK THROUGH DRIVEWAYS TYPE 12

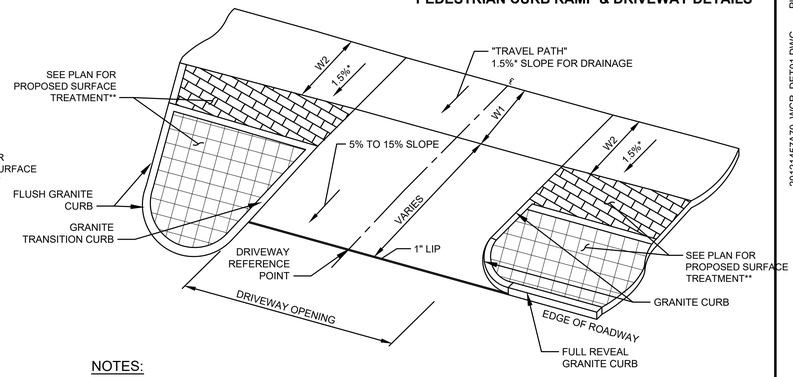
N.T.S.



SECTION

N.T.S.

DR#	DR REFERENCE POINT		LEFT WIDTH OF SIDEWALK (W)	RIGHT WIDTH OF SIDEWALK (W)	WIDTH OF BUFFER S TRIP (G)	WIDTH OF TRAVEL PATH ACROSS OPENING (3'-0" MIN.)	LEFT SIDE TRANSITION LENGTH	RIGHT SIDE TRANSITION LENGTH
	STATION/ ROADWAY	OFFSET						
12-1	251+12.64 BELMONT AVE	5.50' RT	6'-6"	6'-6"	VARIES	6'-6"	6'-6"	6'-6"
12-2	251+51.57 BELMONT AVE	5.50' RT	6'-6"	6'-6"	2'-6"	6'-6"	6'-6"	6'-6"
12-3	252+24.77 BELMONT AVE	5.50' RT	6'-6"	6'-6"	2'-6"	6'-6"	6'-6"	6'-6"
12-4	252+94.86 BELMONT AVE	5.50' RT	6'-6"	6'-6"	2'-6"	6'-6"	6'-6"	6'-6"
12-5	901+25.47 COMMONWEALTH AVE	15.00' LT	6'-0"	6'-0"	3'-6"	6'-0"	6'-6"	6'-6"
12-6	503+21.89 ORMOND ST	15.00' RT	5'-6"	5'-6"	3'-6"	5'-6"	6'-6"	6'-6"



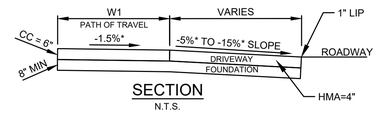
NOTES:

1. SEE CONSTRUCTION STANDARD E 107.8.1 RESIDENTIAL DRIVEWAYS
2. SEE CONSTRUCTION STANDARD E 107.9.0 CURB TRANSITION LENGTHS.
3. IF NO RAMP REQUIRED, DRIVEWAY ELEVATION MATCHES ADJACENT SIDEWALK ELEVATION.
4. PREFERRED TRAVEL PATH WIDTH SHALL MATCH SIDEWALK WIDTH (5'-0" MIN)

* CONSTRUCTION TOLERANCE ± 0.5%
**SEE PLAN FOR TREATMENT (GRASS, PAVERS, HMA)

SIDEWALK THROUGH DRIVEWAYS TYPE 13

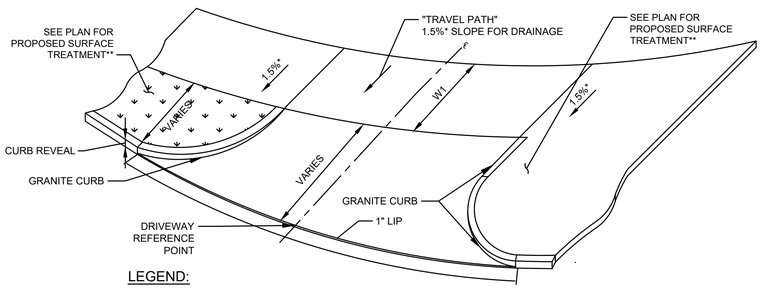
N.T.S.



SECTION

N.T.S.

DR#	DRIVEWAY REFERENCE POINT		DRIVEWAY OF DRIVEWAY (W1)	WIDTH OF SIDEWALK (W2)	DRIVEWAY CURB RETURN	LEFT SIDE STRAIGHT TRANSITION LENGTH	RIGHT SIDE CURVE TRANSITION LENGTH	RIGHT SIDE STRAIGHT TRANSITION LENGTH
	STATION/ ROADWAY	OFFSET						
13-1	251+47.61 BELMONT AVE	12.40' LT	15'-3"	7'-10"	R=5'	17'-0"	7'-10"	12'-6"
13-2	252+89.56 BELMONT AVE	18.50' LT	15'-3"	7'-10"	R=5'	11'-6"	7'-10"	6'-6"

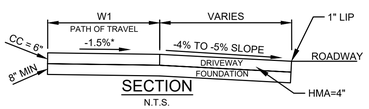


LEGEND:

W = SIDEWALK WIDTH
CC = CEMENT CONCRETE

SIDEWALK THROUGH DRIVEWAYS TYPE 14

N.T.S.



SECTION

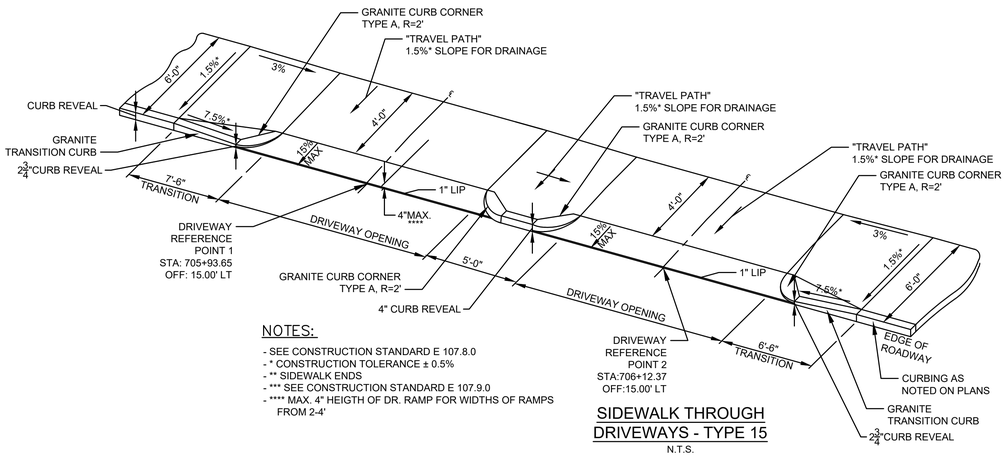
N.T.S.

NOTES:

1. SEE CONSTRUCTION STANDARD E 107.8.1 RESIDENTIAL DRIVEWAYS
2. SEE CONSTRUCTION STANDARD E 107.9.0 CURB TRANSITION LENGTHS.
3. IF NO RAMP REQUIRED, DRIVEWAY ELEVATION MATCHES ADJACENT SIDEWALK ELEVATION.
4. PREFERRED TRAVEL PATH WIDTH SHALL MATCH SIDEWALK WIDTH (5'-0" MIN)

* CONSTRUCTION TOLERANCE ± 0.5%
**SEE PLAN FOR TREATMENT (GRASS, PAVERS, HMA)

DR#	DRIVEWAY REFERENCE POINT		LEFT SIDE CURVED TRANSITION LENGTH	LEFT SIDE CURVE RADIUS	RIGHT SIDE STRAIGHT TRANSITION LENGTH	RIGHT SIDE CURVED TRANSITION LENGTH	RIGHT SIDE CURVE RADIUS
	STATION/ ROADWAY	OFFSET					
14-1	350+09.60 BELMONT AVE	00.00' CT	8'-0"	R=5'	3'-10"	8'-9"	R=5'
14-2	305+56.76 BELMONT AVE	18.75' LT	5'-11	R=3'	3'-0"	15'-3"	R=10'

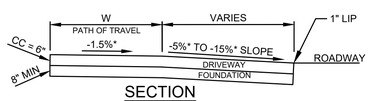


NOTES:

- SEE CONSTRUCTION STANDARD E 107.8.0
- * CONSTRUCTION TOLERANCE ± 0.5%
- ** SIDEWALK ENDS
- *** SEE CONSTRUCTION STANDARD E 107.9.0
- **** MAX. 4" HEIGTH OF DR. RAMP FOR WIDTHS OF RAMPS FROM 2-4'

SIDEWALK THROUGH DRIVEWAYS - TYPE 15

N.T.S.



SECTION

N.T.S.

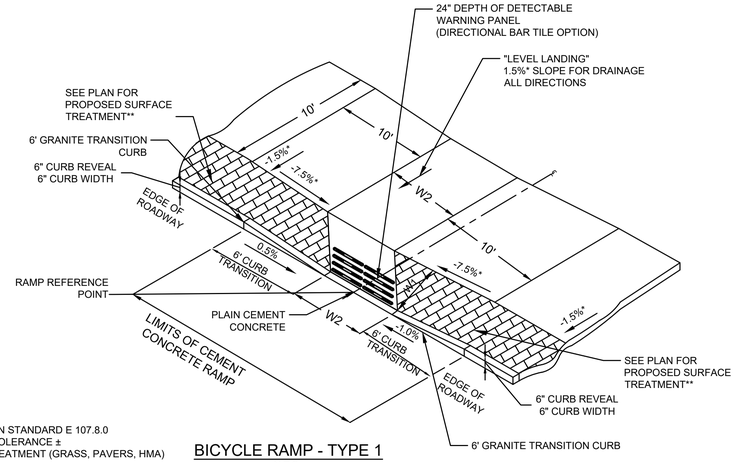
20121457A70_WCR_DET01.DWG Plotted on 5-May-2023 3:28 PM

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	236	358
	PROJECT FILE NO. 608717		

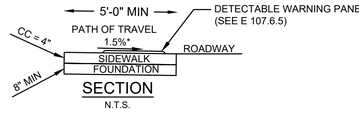
PEDESTRIAN CURB RAMP & DRIVEWAY DETAILS

20121457A70_WCR_DET01.DWG Plotted on 5-May-2023 3:28 PM



BICYCLE RAMP - TYPE 1
N.T.S.

NOTES:
- SEE CONSTRUCTION STANDARD E 107.8.0
- * CONSTRUCTION TOLERANCE ±
- **SEE PLAN FOR TREATMENT (GRASS, PAVERS, HMA)

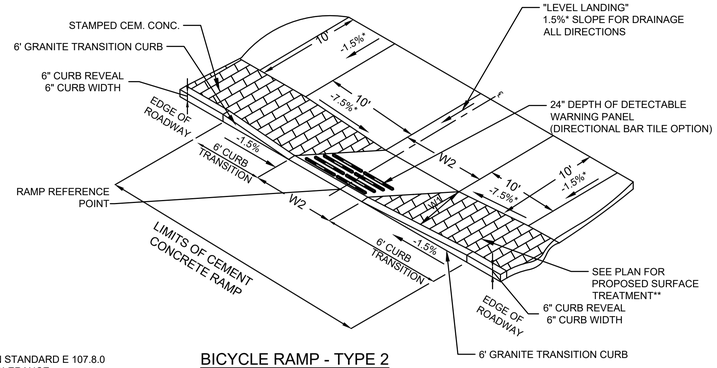


SECTION
N.T.S.

(-) REPRESENTS LOW SIDE TRANSITION

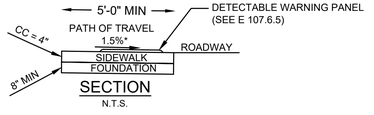
DR#	DRIVEWAY REFERENCE POINT		LENGTH OF RAMP (W1)	WIDTH OF SIDEWALK (W2)	WIDTH OF BIKE PATH ACROSS OPENING (3'-0" MIN.)	TRANSITION		
	STATION/ ROADWAY	OFFSET				RAMP TRANSITION	CURB TRANSITION	ROADWAY GUTTER GRADE
BR1-1	305+30 BELMONT AVE (ROUTE 83)	30' LT	3'-0"	5'-0"	5'-0"	8'-0"	8'-0"	1.0%
BR1-2	901+63 NORTH ST (ROUTE 7)	15' RT	4'-0"	5'-0"	5'-0"	13'-0"	13'-0"	-4.0%

(-) REPRESENTS LOW SIDE TRANSITION



BICYCLE RAMP - TYPE 2
N.T.S.

NOTES:
- SEE CONSTRUCTION STANDARD E 107.8.0
- * CONSTRUCTION TOLERANCE ±
- **SEE PLAN FOR TREATMENT (GRASS, PAVERS, HMA)



SECTION
N.T.S.

(-) REPRESENTS LOW SIDE TRANSITION

DR#	DRIVEWAY REFERENCE POINT		LENGTH OF RAMP (W1)	WIDTH OF SIDEWALK (W2)	WIDTH OF BIKE PATH ACROSS OPENING (3'-0" MIN.)	TRANSITION		
	STATION/ ROADWAY	OFFSET				RAMP TRANSITION	CURB TRANSITION	ROADWAY GUTTER GRADE
BR2-1	901+82 COMMON-WEALTH AVE	18' LT	4'-0"	5'-0"	5'-0"	8'-0"	8'-0"	1.0%
BR2-2	305+42 BELMONT AVE (ROUTE 83)	23.5' RT	8'-0"	5'-0"	5'-0"	13'-0"	13'-0"	-4.0%

(-) REPRESENTS LOW SIDE TRANSITION

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

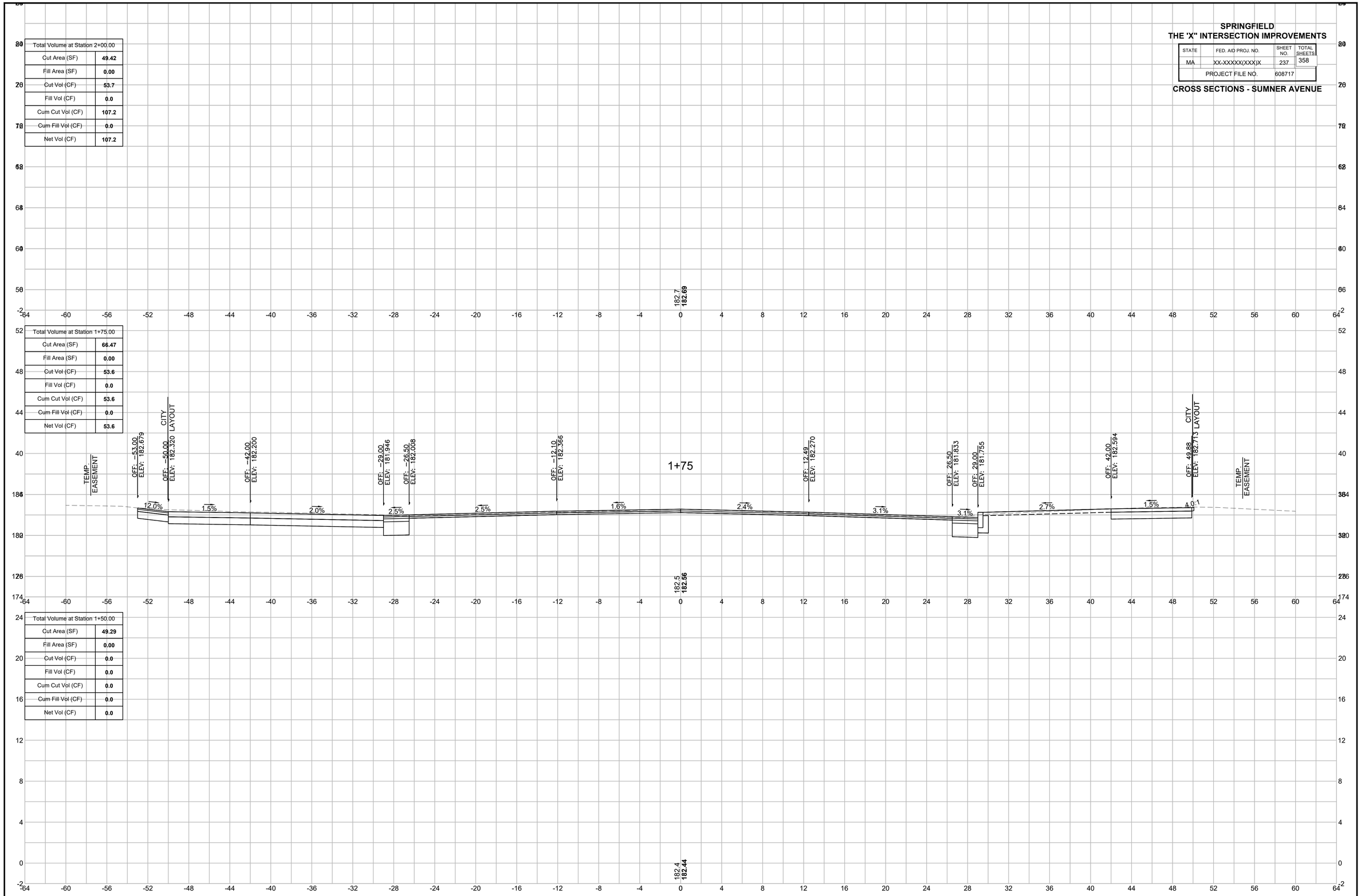
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	237	358
	PROJECT FILE NO.	608717	

CROSS SECTIONS - SUMNER AVENUE

Total Volume at Station 2+00.00	
Cut Area (SF)	49.42
Fill Area (SF)	0.00
Cut Vol (CF)	53.7
Fill Vol (CF)	0.0
Cum Cut Vol (CF)	107.2
Cum Fill Vol (CF)	0.0
Net Vol (CF)	107.2

Total Volume at Station 1+75.00	
Cut Area (SF)	66.47
Fill Area (SF)	0.00
Cut Vol (CF)	53.6
Fill Vol (CF)	0.0
Cum Cut Vol (CF)	53.6
Cum Fill Vol (CF)	0.0
Net Vol (CF)	53.6

Total Volume at Station 1+50.00	
Cut Area (SF)	49.29
Fill Area (SF)	0.00
Cut Vol (CF)	0.0
Fill Vol (CF)	0.0
Cum Cut Vol (CF)	0.0
Cum Fill Vol (CF)	0.0
Net Vol (CF)	0.0



20121457A70_XSC01_SUMNER.DWG Plotted on 5-May-2023 2:34 PM

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

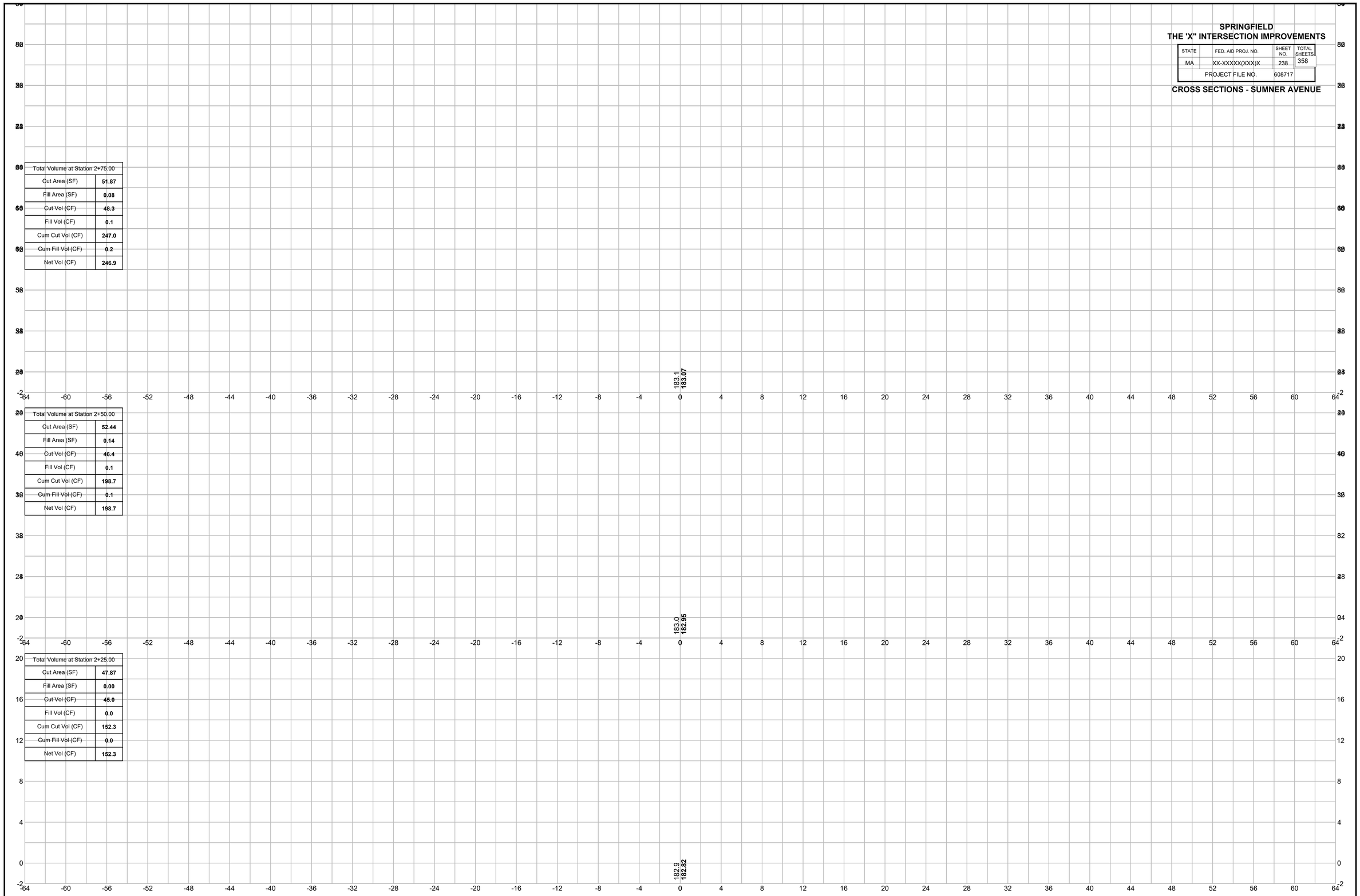
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	238	358
	PROJECT FILE NO.	608717	

CROSS SECTIONS - SUMNER AVENUE

Total Volume at Station 2+75.00	
Cut Area (SF)	**51.87**
Fill Area (SF)	**0.08**
Cut Vol (CF)	**48.3**
Fill Vol (CF)	**0.1**
Cum Cut Vol (CF)	**247.0**
Cum Fill Vol (CF)	**0.2**
Net Vol (CF)	**246.9**

Total Volume at Station 2+50.00	
Cut Area (SF)	**52.44**
Fill Area (SF)	**0.14**
Cut Vol (CF)	**46.4**
Fill Vol (CF)	**0.1**
Cum Cut Vol (CF)	**198.7**
Cum Fill Vol (CF)	**0.1**
Net Vol (CF)	**198.7**

Total Volume at Station 2+25.00	
Cut Area (SF)	**47.87**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**45.0**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**152.3**
Cum Fill Vol (CF)	**0.0**
Net Vol (CF)	**152.3**



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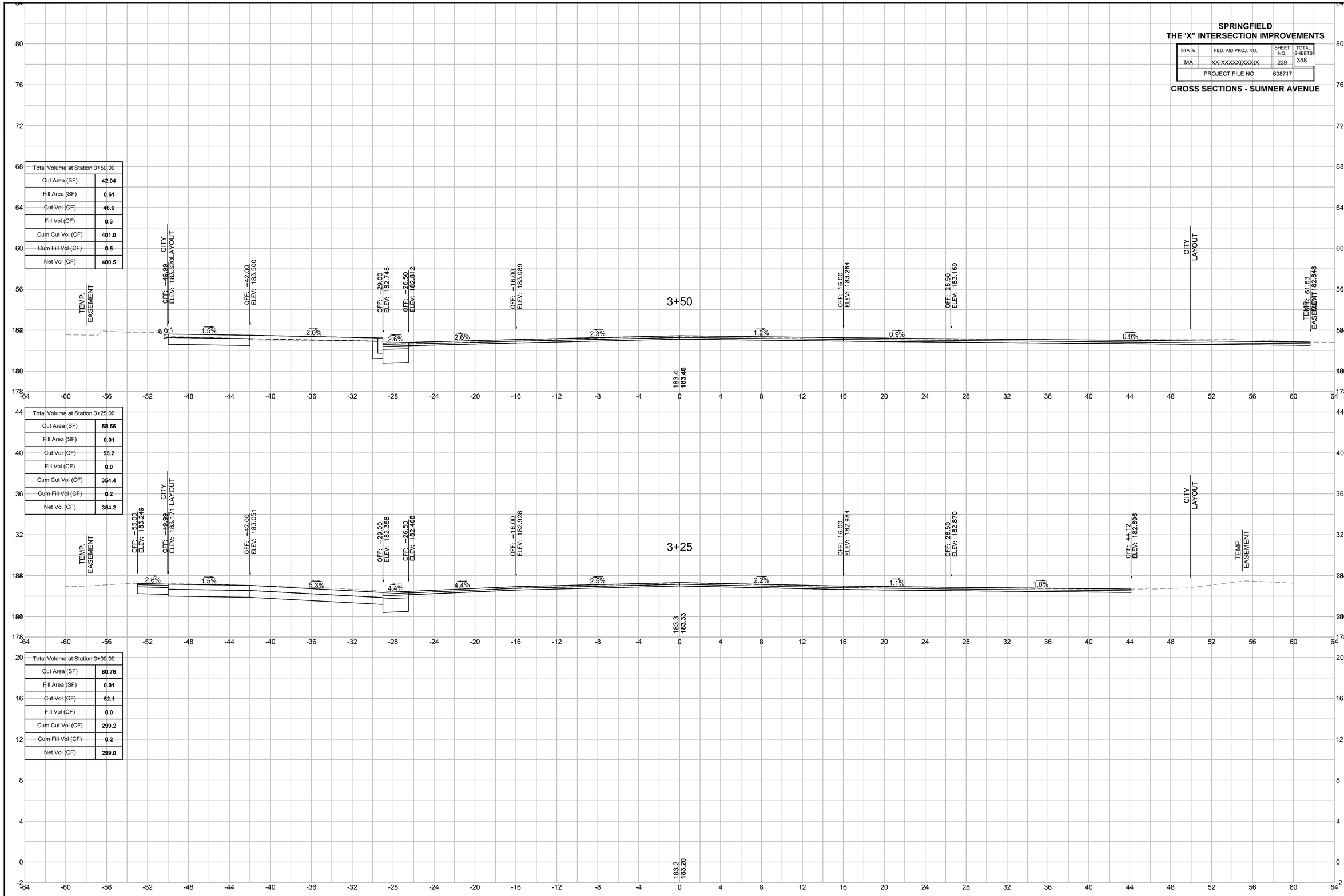
20121457A70_XSC01_SUMNER.DWG

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	239	358
	PROJECT FILE NO.	608717	

CROSS SECTIONS - SUMNER AVENUE



Total Volume at Station 3+50.00	
Cut Area (SF)	42.04
Fill Area (SF)	0.61
Cut Vol (CF)	46.6
Fill Vol (CF)	0.3
Cum Cut Vol (CF)	401.0
Cum Fill Vol (CF)	0.5
Net Vol (CF)	400.5

Total Volume at Station 3+25.00	
Cut Area (SF)	58.56
Fill Area (SF)	0.01
Cut Vol (CF)	55.2
Fill Vol (CF)	0.0
Cum Cut Vol (CF)	354.4
Cum Fill Vol (CF)	0.2
Net Vol (CF)	354.2

Total Volume at Station 3+00.00	
Cut Area (SF)	60.76
Fill Area (SF)	0.01
Cut Vol (CF)	52.1
Fill Vol (CF)	0.0
Cum Cut Vol (CF)	299.2
Cum Fill Vol (CF)	0.2
Net Vol (CF)	299.0

20121457A70_XSC01_SUMNER.DWG Plotted on 5-May-2023 2:35 PM

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

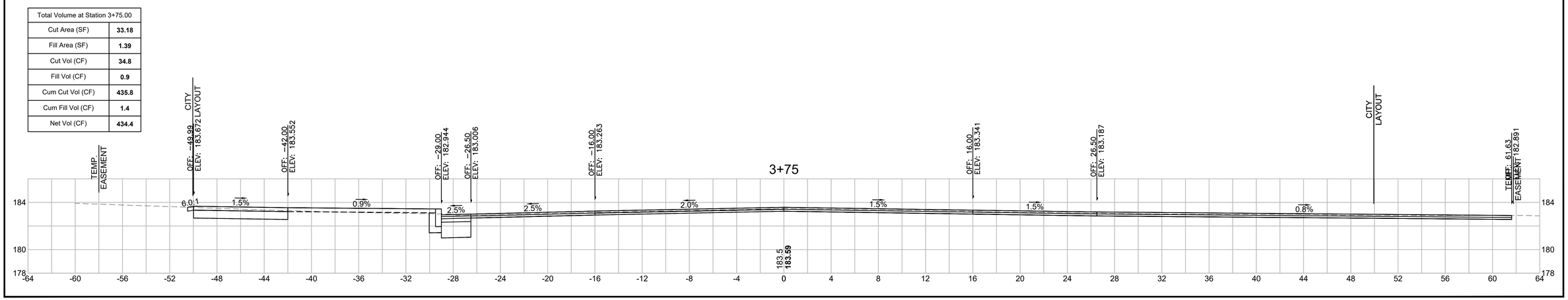
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	240	358
	PROJECT FILE NO.	608717	

CROSS SECTIONS - SUMNER AVENUE

Total Volume at Station 4+25.00	
Cut Area (SF)	52.89
Fill Area (SF)	2.84
Cut Vol (CF)	48.2
Fill Vol (CF)	1.4
Cum Cut Vol (CF)	523.0
Cum Fill Vol (CF)	3.6
Net Vol (CF)	519.3

Total Volume at Station 4+00.00	
Cut Area (SF)	51.13
Fill Area (SF)	0.28
Cut Vol (CF)	39.0
Fill Vol (CF)	0.8
Cum Cut Vol (CF)	474.8
Cum Fill Vol (CF)	2.2
Net Vol (CF)	472.6

Total Volume at Station 3+75.00	
Cut Area (SF)	33.18
Fill Area (SF)	1.39
Cut Vol (CF)	34.8
Fill Vol (CF)	0.9
Cum Cut Vol (CF)	435.8
Cum Fill Vol (CF)	1.4
Net Vol (CF)	434.4



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SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

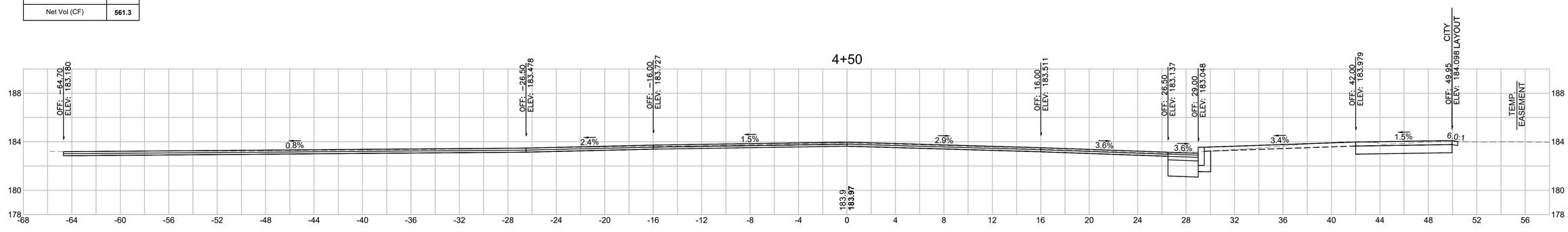
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	241	358
	PROJECT FILE NO.	608717	

CROSS SECTIONS - SUMNER AVENUE

Plotted on 5-May-2023 2:35 PM
20121457A70_XSC01_SUMNER.DWG

Total Volume at Station 4+75.00	
Cut Area (SF)	**49.75**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**41.8**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**608.0**
Cum Fill Vol (CF)	**5.0**
Net Vol (CF)	**603.1**

Total Volume at Station 4+50.00	
Cut Area (SF)	**40.53**
Fill Area (SF)	**0.01**
Cut Vol (CF)	**43.3**
Fill Vol (CF)	**1.3**
Cum Cut Vol (CF)	**566.2**
Cum Fill Vol (CF)	**5.0**
Net Vol (CF)	**561.3**



SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

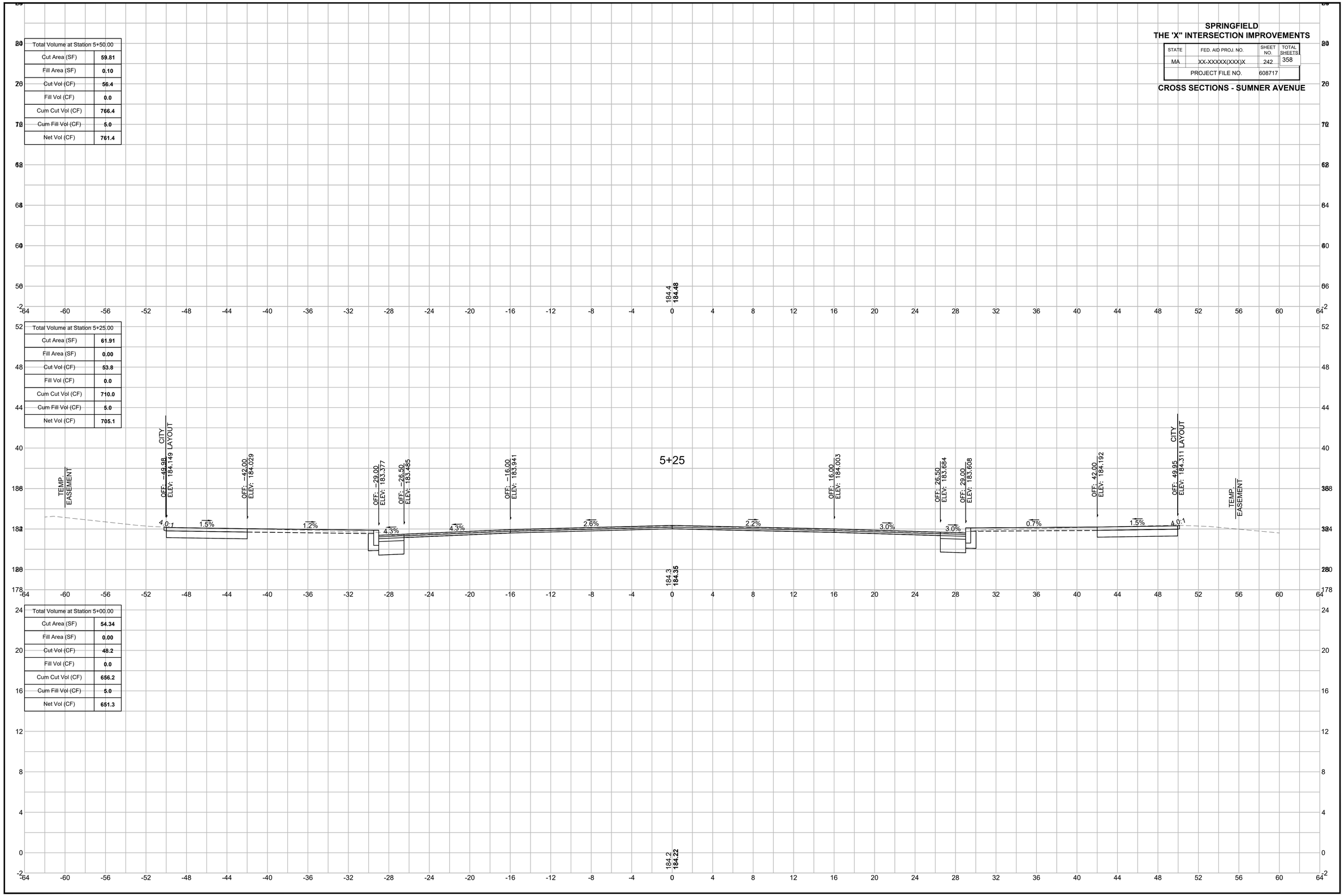
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	242	358
	PROJECT FILE NO.	608717	

CROSS SECTIONS - SUMNER AVENUE

Total Volume at Station 5+50.00	
Cut Area (SF)	59.81
Fill Area (SF)	0.10
Cut Vol (CF)	56.4
Fill Vol (CF)	0.0
Cum Cut Vol (CF)	766.4
Cum Fill Vol (CF)	5.0
Net Vol (CF)	761.4

Total Volume at Station 5+25.00	
Cut Area (SF)	61.91
Fill Area (SF)	0.00
Cut Vol (CF)	53.8
Fill Vol (CF)	0.0
Cum Cut Vol (CF)	710.0
Cum Fill Vol (CF)	5.0
Net Vol (CF)	705.1

Total Volume at Station 5+00.00	
Cut Area (SF)	54.34
Fill Area (SF)	0.00
Cut Vol (CF)	48.2
Fill Vol (CF)	0.0
Cum Cut Vol (CF)	656.2
Cum Fill Vol (CF)	5.0
Net Vol (CF)	651.3



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SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

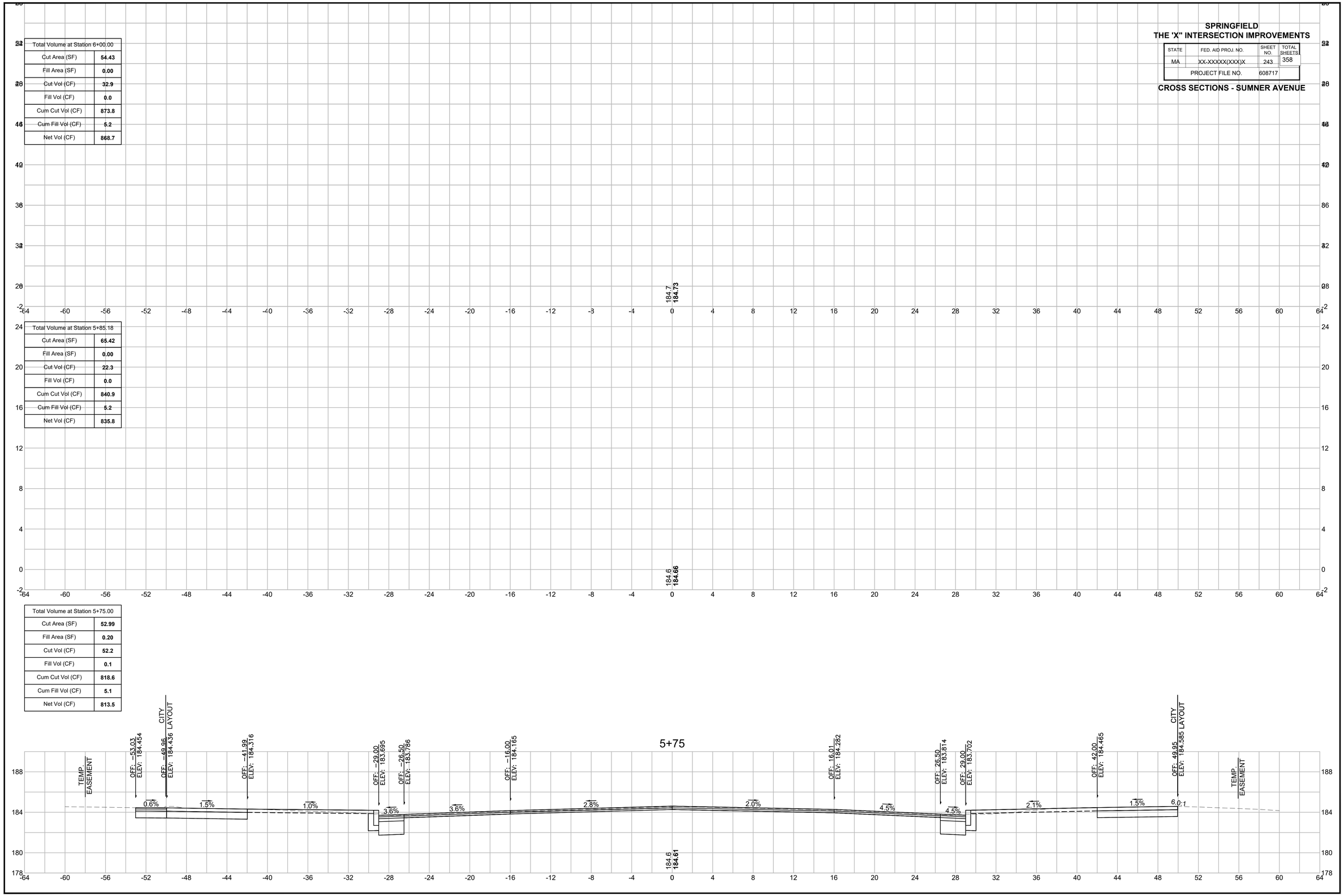
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	243	358
	PROJECT FILE NO.	608717	

CROSS SECTIONS - SUMNER AVENUE

Total Volume at Station 6+00.00	
Cut Area (SF)	**54.43**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**32.9**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**873.8**
Cum Fill Vol (CF)	**5.2**
Net Vol (CF)	**868.7**

Total Volume at Station 5+85.18	
Cut Area (SF)	**65.42**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**22.3**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**840.9**
Cum Fill Vol (CF)	**5.2**
Net Vol (CF)	**835.8**

Total Volume at Station 5+75.00	
Cut Area (SF)	**52.99**
Fill Area (SF)	**0.20**
Cut Vol (CF)	**52.2**
Fill Vol (CF)	**0.1**
Cum Cut Vol (CF)	**818.6**
Cum Fill Vol (CF)	**5.1**
Net Vol (CF)	**813.5**



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SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

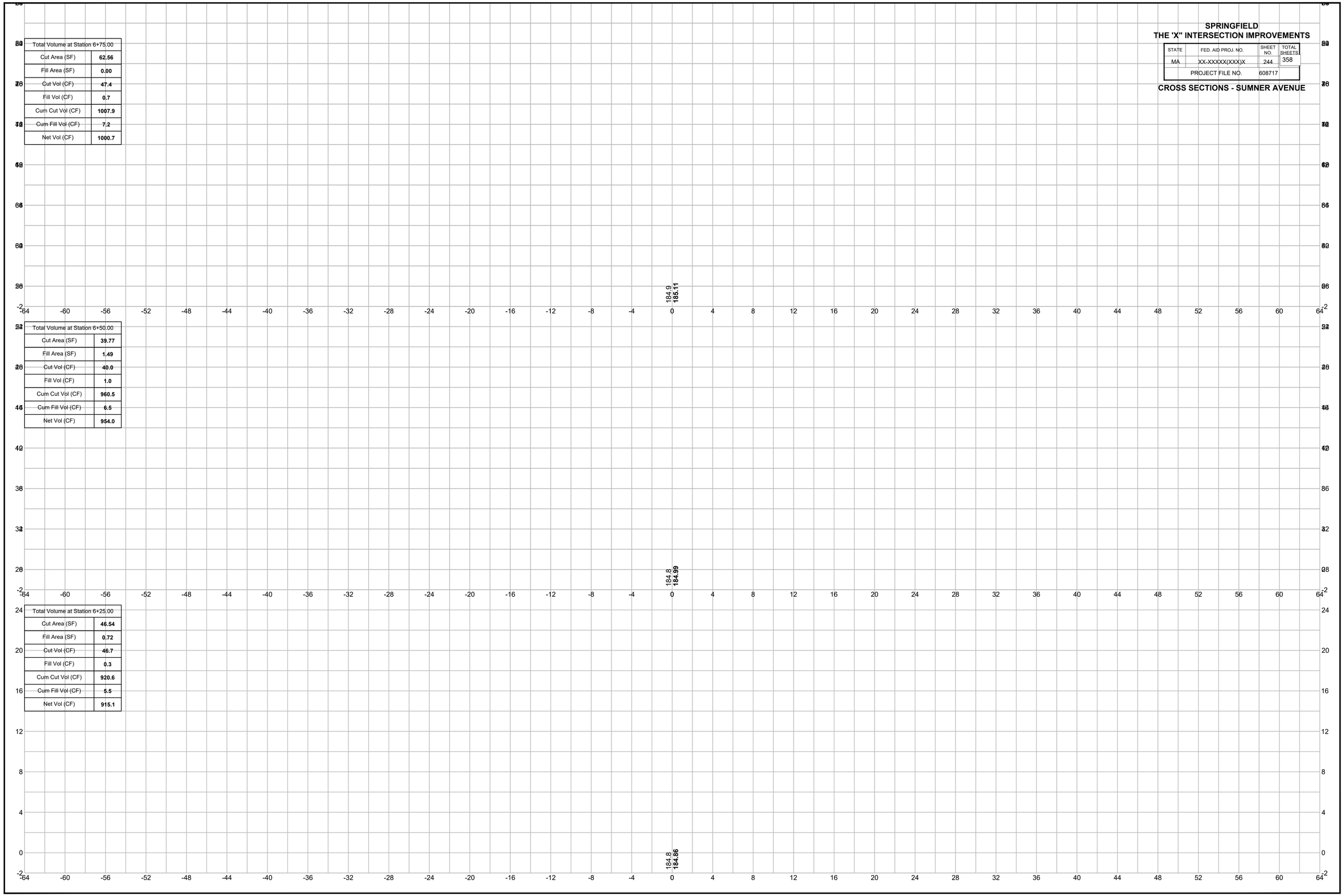
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	244	358
	PROJECT FILE NO.	608717	

CROSS SECTIONS - SUMNER AVENUE

Total Volume at Station 6+75.00	
Cut Area (SF)	**62.56**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**47.4**
Fill Vol (CF)	**0.7**
Cum Cut Vol (CF)	**1007.9**
Cum Fill Vol (CF)	**7.2**
Net Vol (CF)	**1000.7**

Total Volume at Station 6+50.00	
Cut Area (SF)	**39.77**
Fill Area (SF)	**1.49**
Cut Vol (CF)	**40.0**
Fill Vol (CF)	**1.0**
Cum Cut Vol (CF)	**960.5**
Cum Fill Vol (CF)	**6.5**
Net Vol (CF)	**954.0**

Total Volume at Station 6+25.00	
Cut Area (SF)	**46.54**
Fill Area (SF)	**0.72**
Cut Vol (CF)	**46.7**
Fill Vol (CF)	**0.3**
Cum Cut Vol (CF)	**920.6**
Cum Fill Vol (CF)	**5.5**
Net Vol (CF)	**915.1**



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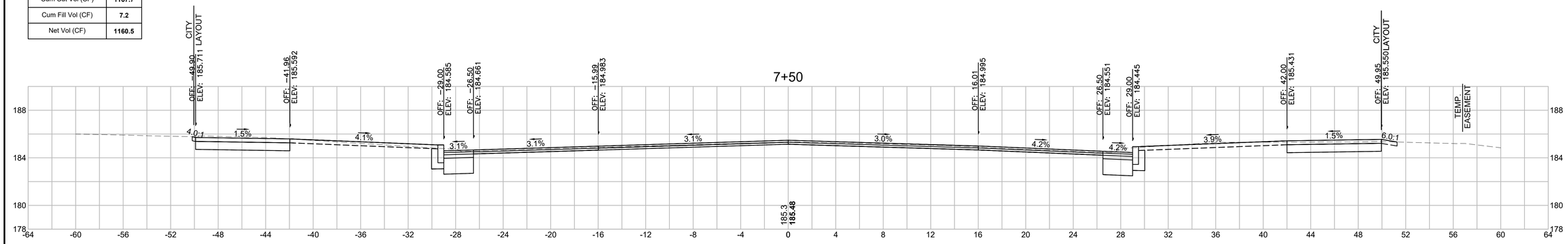
SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

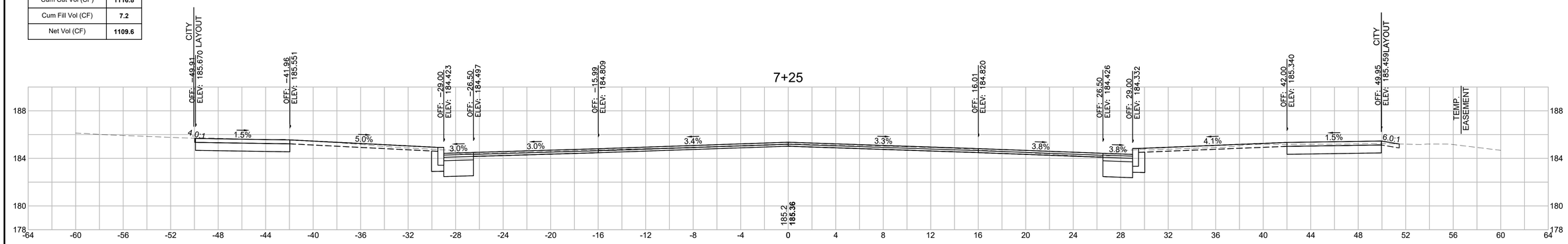
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	245	358
	PROJECT FILE NO.	608717	

CROSS SECTIONS - SUMNER AVENUE

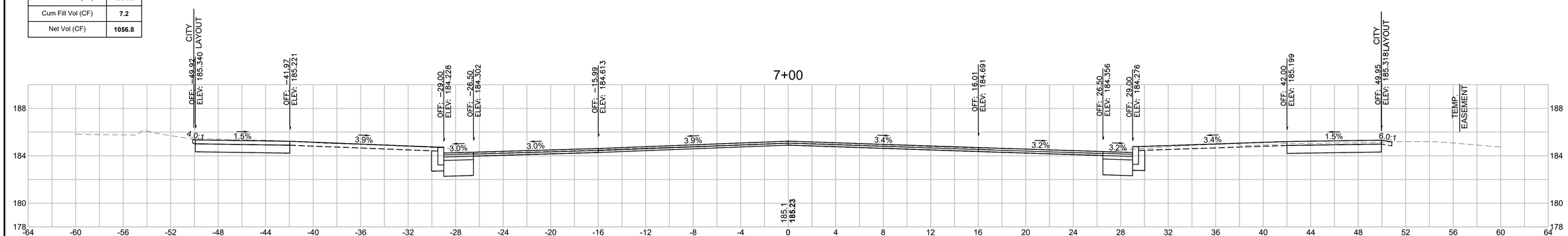
Total Volume at Station 7+50.00	
Cut Area (SF)	**54.58**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**50.9**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**1167.7**
Cum Fill Vol (CF)	**7.2**
Net Vol (CF)	**1160.5**



Total Volume at Station 7+25.00	
Cut Area (SF)	**55.39**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**52.8**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**1116.8**
Cum Fill Vol (CF)	**7.2**
Net Vol (CF)	**1109.6**



Total Volume at Station 7+00.00	
Cut Area (SF)	**58.64**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**56.1**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**1064.0**
Cum Fill Vol (CF)	**7.2**
Net Vol (CF)	**1056.8**



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SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

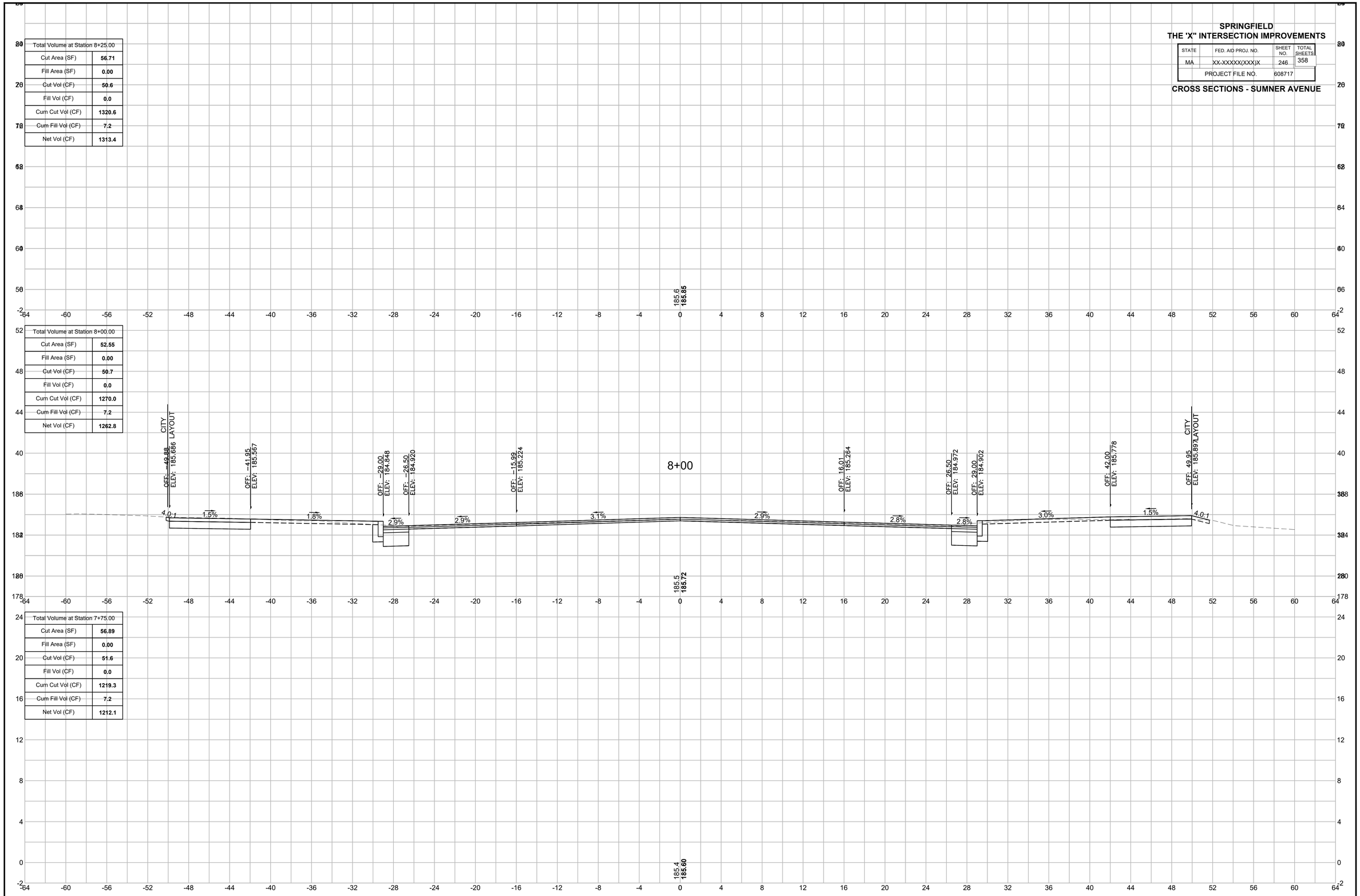
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	246	358
	PROJECT FILE NO.	608717	

CROSS SECTIONS - SUMNER AVENUE

Total Volume at Station 8+25.00	
Cut Area (SF)	**56.71**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**50.6**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**1320.6**
Cum Fill Vol (CF)	**7.2**
Net Vol (CF)	**1313.4**

Total Volume at Station 8+00.00	
Cut Area (SF)	**52.55**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**50.7**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**1270.0**
Cum Fill Vol (CF)	**7.2**
Net Vol (CF)	**1262.8**

Total Volume at Station 7+75.00	
Cut Area (SF)	**56.89**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**51.6**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**1219.3**
Cum Fill Vol (CF)	**7.2**
Net Vol (CF)	**1212.1**



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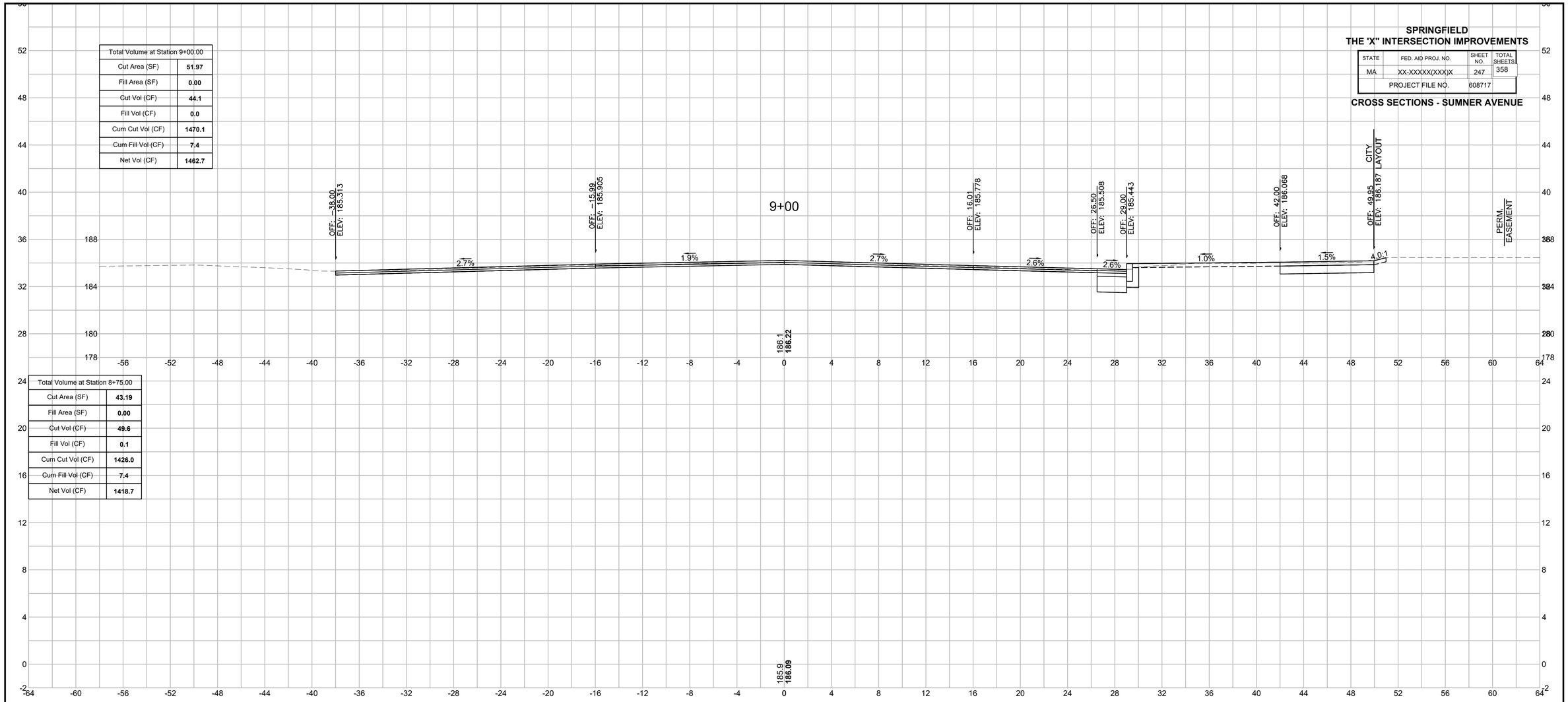
SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	247	358
	PROJECT FILE NO.	608717	

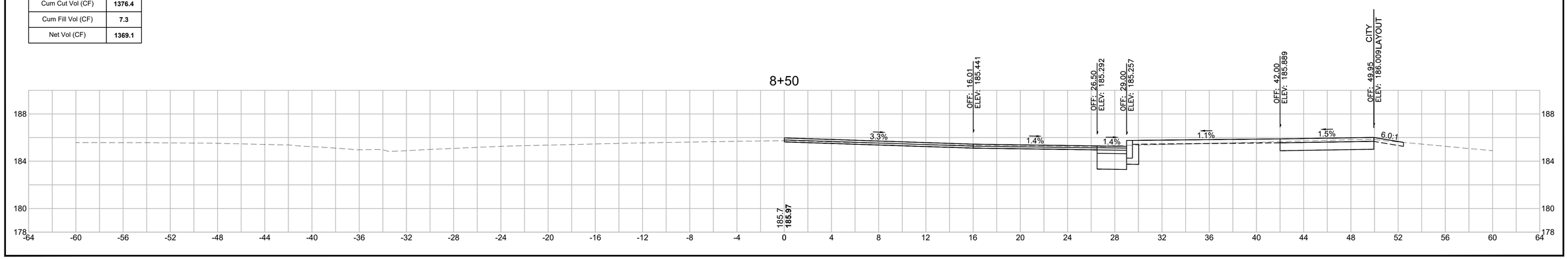
CROSS SECTIONS - SUMNER AVENUE

Total Volume at Station 9+00.00	
Cut Area (SF)	**51.97**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**44.1**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**1470.1**
Cum Fill Vol (CF)	**7.4**
Net Vol (CF)	**1462.7**



Total Volume at Station 8+75.00	
Cut Area (SF)	**43.19**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**49.6**
Fill Vol (CF)	**0.1**
Cum Cut Vol (CF)	**1426.0**
Cum Fill Vol (CF)	**7.4**
Net Vol (CF)	**1418.7**

Total Volume at Station 8+50.00	
Cut Area (SF)	**63.95**
Fill Area (SF)	**0.18**
Cut Vol (CF)	**55.9**
Fill Vol (CF)	**0.1**
Cum Cut Vol (CF)	**1376.4**
Cum Fill Vol (CF)	**7.3**
Net Vol (CF)	**1369.1**



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SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	248	358
	PROJECT FILE NO.	608717	

CROSS SECTIONS - SUMNER AVENUE

Total Volume at Station 9+50.00	
Cut Area (SF)	**76.46**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**70.4**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**1607.8**
Cum Fill Vol (CF)	**7.4**
Net Vol (CF)	**1600.5**

186.4
186.96

Total Volume at Station 9+25.00	
Cut Area (SF)	**75.67**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**40.8**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**1537.4**
Cum Fill Vol (CF)	**7.4**
Net Vol (CF)	**1530.0**

186.2
186.34

Total Volume at Station 9+10.85	
Cut Area (SF)	**79.99**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**26.5**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**1496.6**
Cum Fill Vol (CF)	**7.4**
Net Vol (CF)	**1489.2**

186.1
186.27

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SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

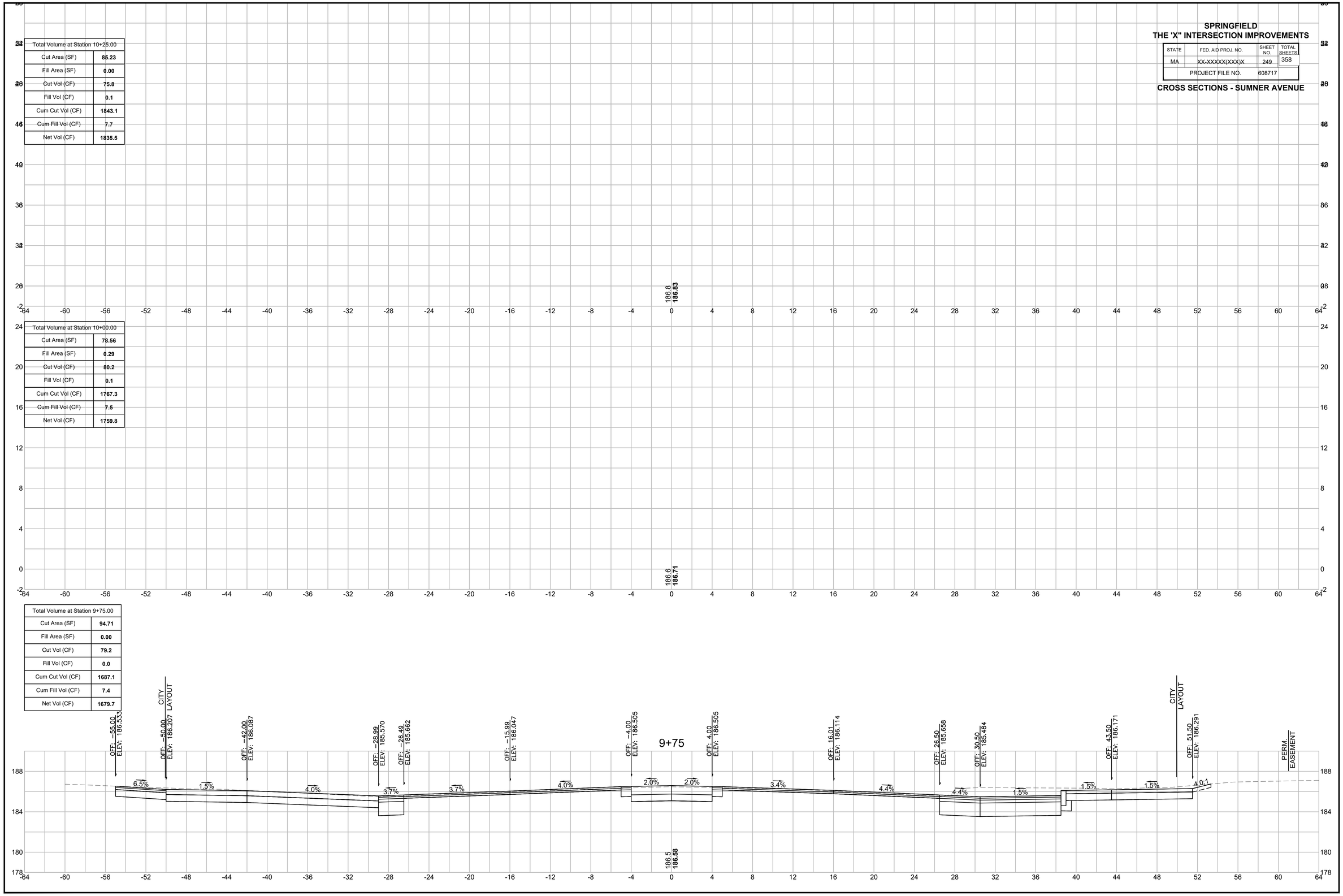
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	249	358
	PROJECT FILE NO.	608717	

CROSS SECTIONS - SUMNER AVENUE

Total Volume at Station 10+25.00	
Cut Area (SF)	**85.23**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**75.8**
Fill Vol (CF)	**0.1**
Cum Cut Vol (CF)	**1843.1**
Cum Fill Vol (CF)	**7.7**
Net Vol (CF)	**1835.5**

Total Volume at Station 10+00.00	
Cut Area (SF)	**78.56**
Fill Area (SF)	**0.29**
Cut Vol (CF)	**80.2**
Fill Vol (CF)	**0.1**
Cum Cut Vol (CF)	**1767.3**
Cum Fill Vol (CF)	**7.5**
Net Vol (CF)	**1759.8**

Total Volume at Station 9+75.00	
Cut Area (SF)	**94.71**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**79.2**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**1687.1**
Cum Fill Vol (CF)	**7.4**
Net Vol (CF)	**1679.7**



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SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

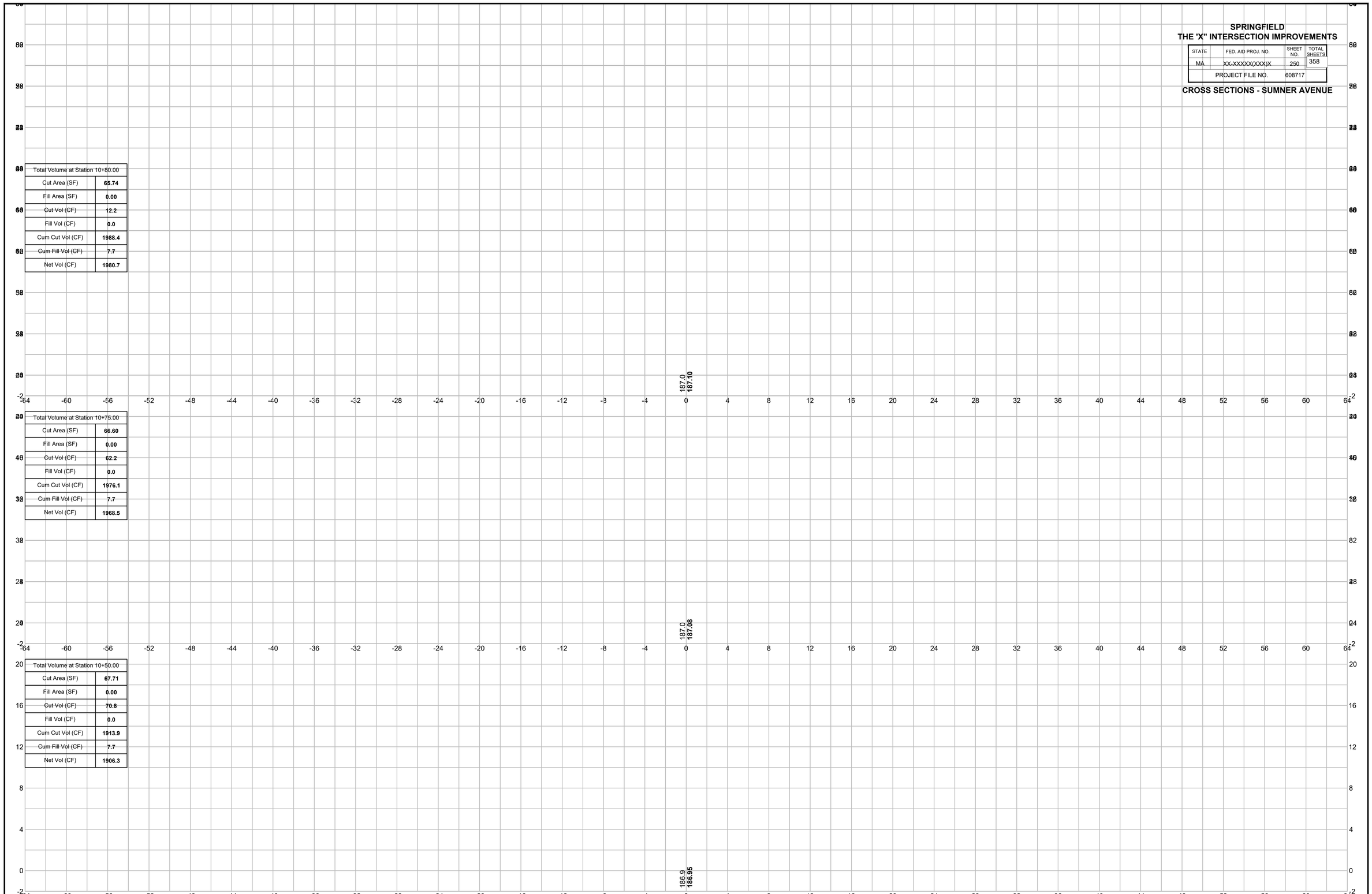
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	250	358
	PROJECT FILE NO.	608717	

CROSS SECTIONS - SUMNER AVENUE

Total Volume at Station 10+80.00	
Cut Area (SF)	65.74
Fill Area (SF)	0.00
Cut Vol (CF)	12.2
Fill Vol (CF)	0.0
Cum Cut Vol (CF)	1988.4
Cum Fill Vol (CF)	7.7
Net Vol (CF)	1980.7

Total Volume at Station 10+75.00	
Cut Area (SF)	66.60
Fill Area (SF)	0.00
Cut Vol (CF)	62.2
Fill Vol (CF)	0.0
Cum Cut Vol (CF)	1976.1
Cum Fill Vol (CF)	7.7
Net Vol (CF)	1968.5

Total Volume at Station 10+50.00	
Cut Area (SF)	67.71
Fill Area (SF)	0.00
Cut Vol (CF)	70.8
Fill Vol (CF)	0.0
Cum Cut Vol (CF)	1913.9
Cum Fill Vol (CF)	7.7
Net Vol (CF)	1906.3

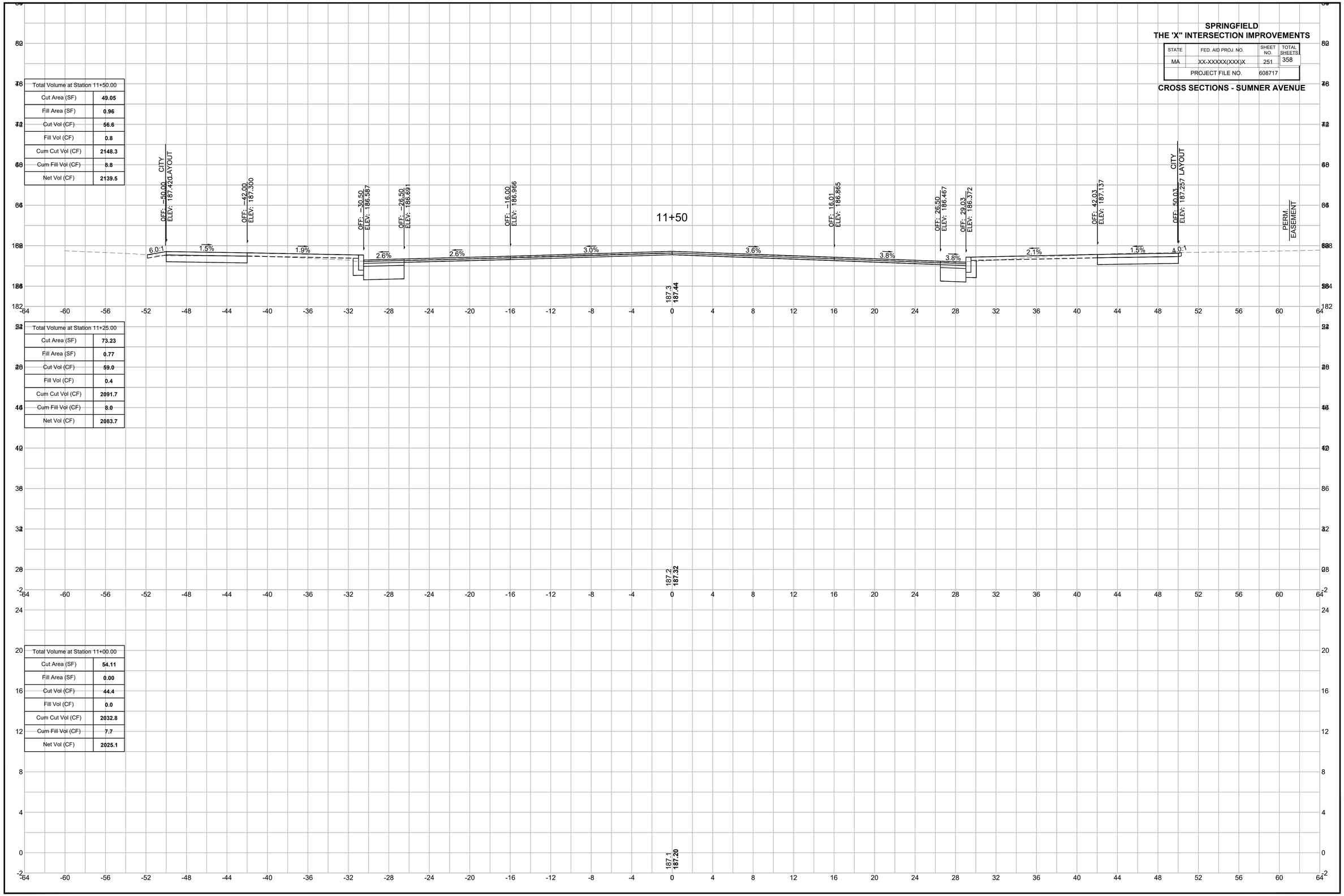


20121457A70_XSC01_SUMNER.DWG Plotted on 5-May-2023 2:36 PM

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	251	358
	PROJECT FILE NO.	608717	

CROSS SECTIONS - SUMNER AVENUE



Total Volume at Station 11+50.00	
Cut Area (SF)	49.05
Fill Area (SF)	0.96
Cut Vol (CF)	56.6
Fill Vol (CF)	0.8
Cum Cut Vol (CF)	2148.3
Cum Fill Vol (CF)	8.8
Net Vol (CF)	2139.5

Total Volume at Station 11+25.00	
Cut Area (SF)	73.23
Fill Area (SF)	0.77
Cut Vol (CF)	59.0
Fill Vol (CF)	0.4
Cum Cut Vol (CF)	2091.7
Cum Fill Vol (CF)	8.0
Net Vol (CF)	2083.7

Total Volume at Station 11+00.00	
Cut Area (SF)	54.11
Fill Area (SF)	0.00
Cut Vol (CF)	44.4
Fill Vol (CF)	0.0
Cum Cut Vol (CF)	2032.8
Cum Fill Vol (CF)	7.7
Net Vol (CF)	2025.1

20121457A70_XSC01_SUMNER.DWG Plotted on 5-May-2023 2:36 PM

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	252	358
	PROJECT FILE NO.	608717	

CROSS SECTIONS - SUMNER AVENUE

Total Volume at Station 12+00.00	
Cut Area (SF)	**45.64**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**41.8**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**2233.4**
Cum Fill Vol (CF)	**9.3**
Net Vol (CF)	**2224.1**

Total Volume at Station 11+75.00	
Cut Area (SF)	**44.54**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**43.3**
Fill Vol (CF)	**0.4**
Cum Cut Vol (CF)	**2191.6**
Cum Fill Vol (CF)	**9.3**
Net Vol (CF)	**2182.4**

187.6
187.64

187.4
187.56

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20121457A70_XSC01_SUMNER.DWG

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	253	358
	PROJECT FILE NO.	608717	

CROSS SECTIONS - SUMNER AVENUE

Total Volume at Station 12+75.00	
Cut Area (SF)	**62.86**
Fill Area (SF)	**0.01**
Cut Vol (CF)	**59.6**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**2400.8**
Cum Fill Vol (CF)	**9.3**
Net Vol (CF)	**2391.5**

Total Volume at Station 12+50.00	
Cut Area (SF)	**65.90**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**58.6**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**2341.1**
Cum Fill Vol (CF)	**9.3**
Net Vol (CF)	**2331.9**

Total Volume at Station 12+25.00	
Cut Area (SF)	**60.59**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**49.2**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**2282.6**
Cum Fill Vol (CF)	**9.3**
Net Vol (CF)	**2273.3**

187.7
188.28

187.7
188.24

187.7
187.70

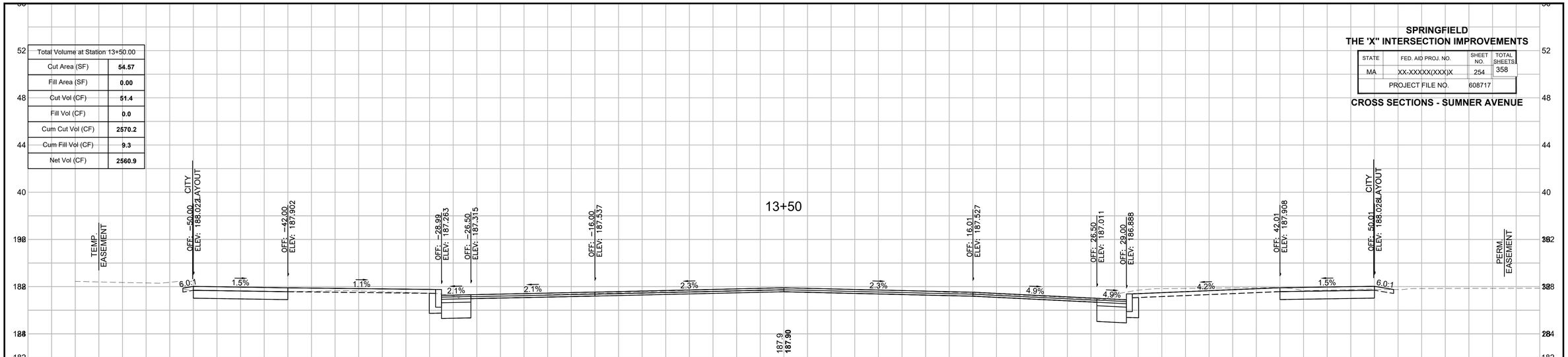
20121457A70_XSC01_SUMNER.DWG Plotted on 5-May-2023 2:36 PM

SPRINGFIELD
THE "X" INTERSECTION IMPROVEMENTS

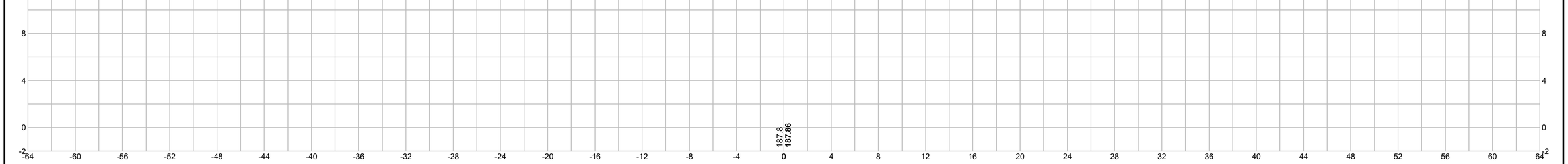
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	254	358
	PROJECT FILE NO.	608717	

CROSS SECTIONS - SUMNER AVENUE

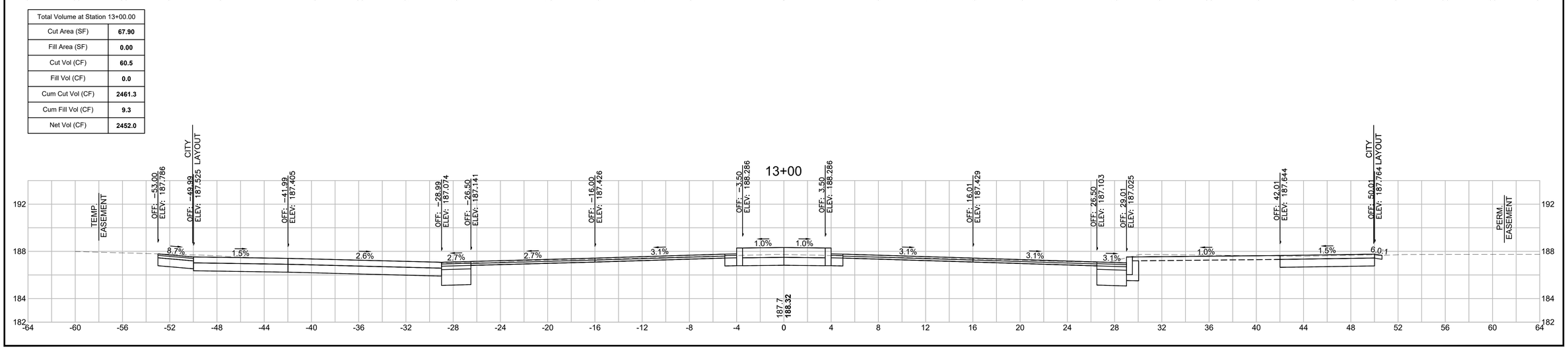
Total Volume at Station 13+50.00	
Cut Area (SF)	**54.57**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**51.4**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**2570.2**
Cum Fill Vol (CF)	**9.3**
Net Vol (CF)	**2560.9**



Total Volume at Station 13+25.00	
Cut Area (SF)	**56.40**
Fill Area (SF)	**0.03**
Cut Vol (CF)	**57.5**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**2518.8**
Cum Fill Vol (CF)	**9.3**
Net Vol (CF)	**2509.6**



Total Volume at Station 13+00.00	
Cut Area (SF)	**67.90**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**60.5**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**2461.3**
Cum Fill Vol (CF)	**9.3**
Net Vol (CF)	**2452.0**



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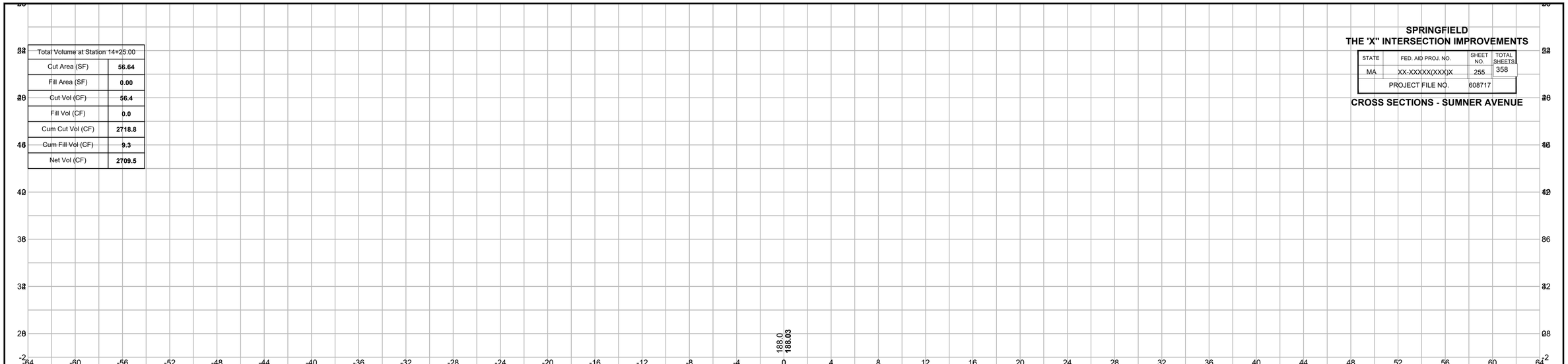
SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

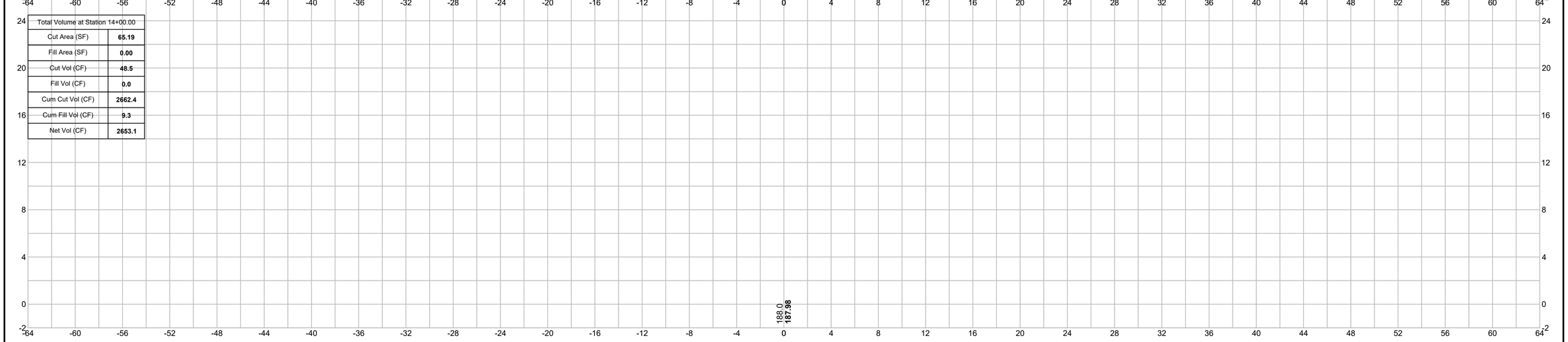
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	255	358
	PROJECT FILE NO.	608717	

CROSS SECTIONS - SUMNER AVENUE

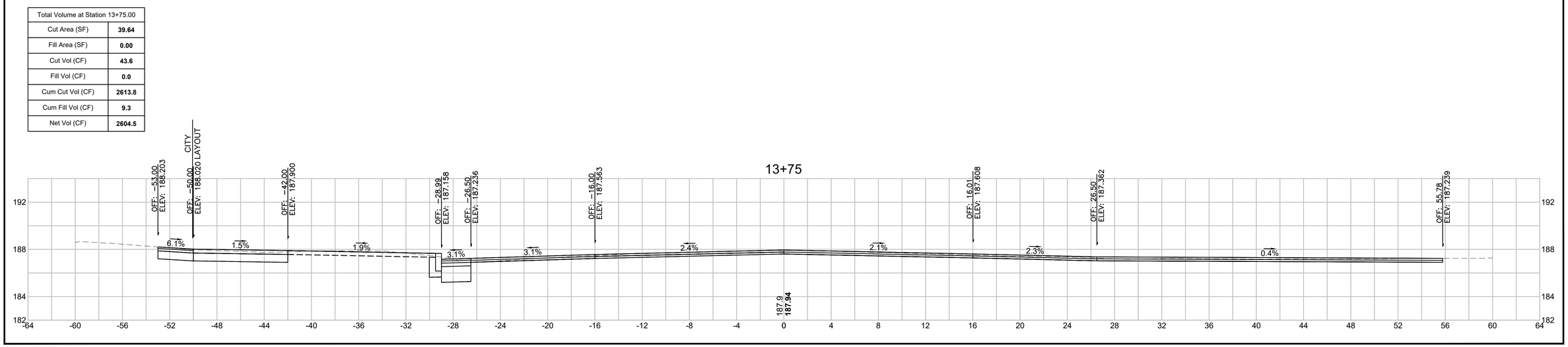
Total Volume at Station 14+25.00	
Cut Area (SF)	**56.64**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**56.4**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**2718.8**
Cum Fill Vol (CF)	**9.3**
Net Vol (CF)	**2709.5**



Total Volume at Station 14+00.00	
Cut Area (SF)	**65.19**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**48.5**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**2662.4**
Cum Fill Vol (CF)	**9.3**
Net Vol (CF)	**2653.1**



Total Volume at Station 13+75.00	
Cut Area (SF)	**39.64**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**43.6**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**2613.8**
Cum Fill Vol (CF)	**9.3**
Net Vol (CF)	**2604.5**



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SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	256	358
	PROJECT FILE NO.	608717	

CROSS SECTIONS - SUMNER AVENUE

Total Volume at Station 15+00.00	
Cut Area (SF)	33.49
Fill Area (SF)	9.91
Cut Vol (CF)	42.1
Fill Vol (CF)	7.6
Cum Cut Vol (CF)	2862.6
Cum Fill Vol (CF)	20.0
Net Vol (CF)	2842.6

Total Volume at Station 14+75.00	
Cut Area (SF)	57.53
Fill Area (SF)	6.57
Cut Vol (CF)	51.1
Fill Vol (CF)	3.0
Cum Cut Vol (CF)	2820.5
Cum Fill Vol (CF)	12.3
Net Vol (CF)	2808.1

Total Volume at Station 14+50.00	
Cut Area (SF)	52.77
Fill Area (SF)	0.00
Cut Vol (CF)	50.6
Fill Vol (CF)	0.0
Cum Cut Vol (CF)	2769.4
Cum Fill Vol (CF)	9.3
Net Vol (CF)	2760.1

14+75

OFF: −56.98 ELEV: 187.343
OFF: −26.50 ELEV: 187.869
OFF: −16.00 ELEV: 187.942
OFF: 16.01 ELEV: 187.726
OFF: 26.50 ELEV: 187.230
OFF: 29.00 ELEV: 187.112
OFF: 41.97 ELEV: 187.743
OFF: 49.96 ELEV: 187.863 CITY LAYOUT
OFF: 54.23 ELEV: 188.015
TEMP. EASEMENT

1.7% 0.7% 1.0% 2.4% 4.7% 4.7% 4.9% 1.5% 3.6%

188.1
188.15
188.11
188.07

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SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

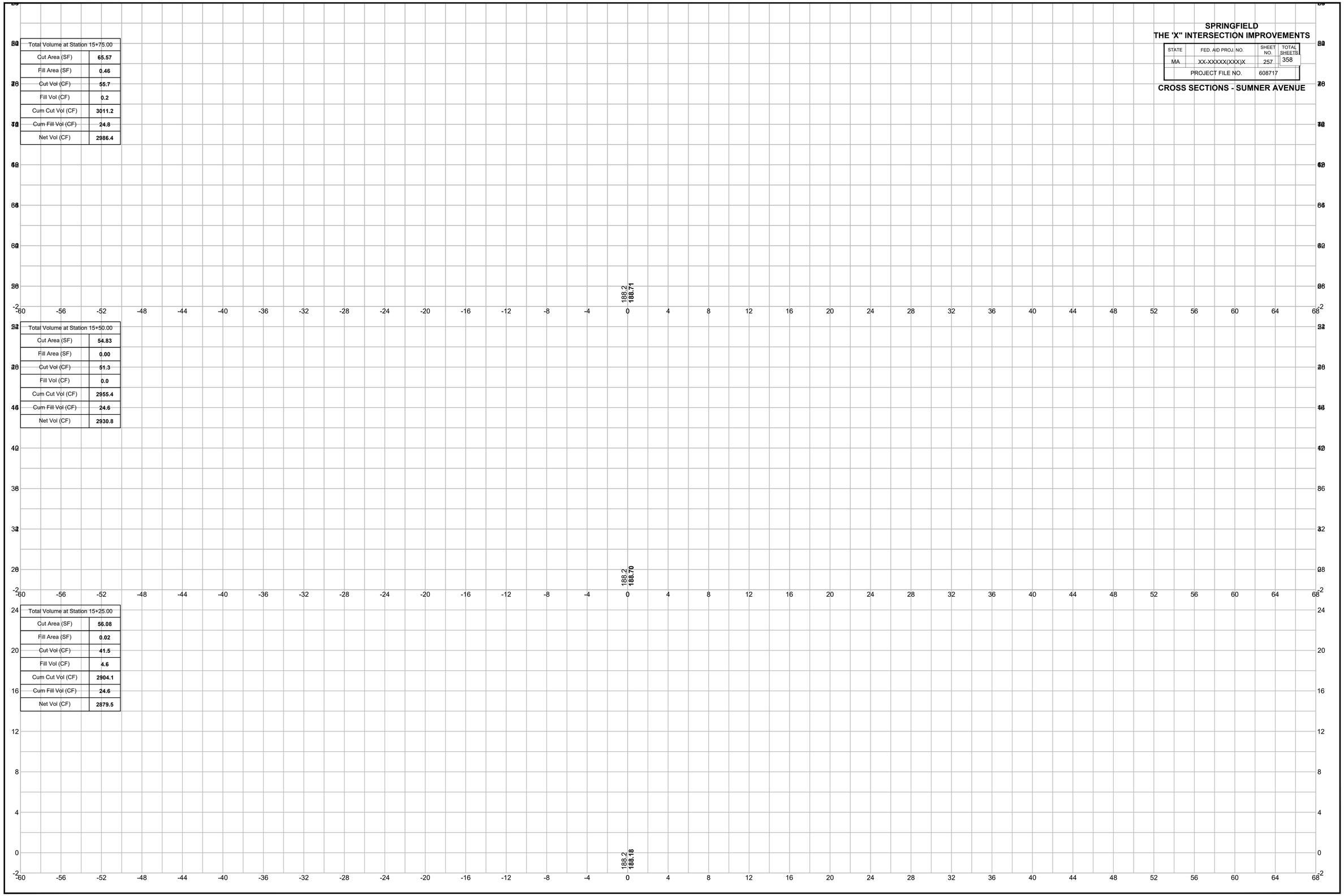
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	257	358
	PROJECT FILE NO.	608717	

CROSS SECTIONS - SUMNER AVENUE

Total Volume at Station 15+75.00	
Cut Area (SF)	65.57
Fill Area (SF)	0.46
Cut Vol (CF)	55.7
Fill Vol (CF)	0.2
Cum Cut Vol (CF)	3011.2
Cum Fill Vol (CF)	24.8
Net Vol (CF)	2986.4

Total Volume at Station 15+50.00	
Cut Area (SF)	54.83
Fill Area (SF)	0.00
Cut Vol (CF)	51.3
Fill Vol (CF)	0.0
Cum Cut Vol (CF)	2955.4
Cum Fill Vol (CF)	24.6
Net Vol (CF)	2930.8

Total Volume at Station 15+25.00	
Cut Area (SF)	56.08
Fill Area (SF)	0.02
Cut Vol (CF)	41.5
Fill Vol (CF)	4.6
Cum Cut Vol (CF)	2904.1
Cum Fill Vol (CF)	24.6
Net Vol (CF)	2879.5



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SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

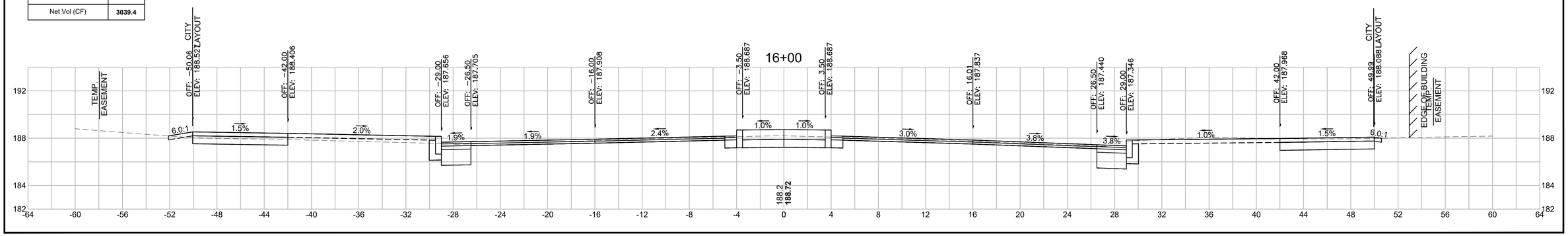
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	258	358
	PROJECT FILE NO.	608717	

CROSS SECTIONS - SUMNER AVENUE

Total Volume at Station 16+30.00	
Cut Area (SF)	**87.39**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**14.8**
Fill Vol (CF)	**0.1**
Cum Cut Vol (CF)	**3138.3**
Cum Fill Vol (CF)	**28.5**
Net Vol (CF)	**3109.8**

Total Volume at Station 16+25.00	
Cut Area (SF)	**72.43**
Fill Area (SF)	**1.61**
Cut Vol (CF)	**57.7**
Fill Vol (CF)	**2.0**
Cum Cut Vol (CF)	**3123.5**
Cum Fill Vol (CF)	**28.3**
Net Vol (CF)	**3095.1**

Total Volume at Station 16+00.00	
Cut Area (SF)	**52.28**
Fill Area (SF)	**2.79**
Cut Vol (CF)	**54.6**
Fill Vol (CF)	**1.5**
Cum Cut Vol (CF)	**3065.7**
Cum Fill Vol (CF)	**26.3**
Net Vol (CF)	**3039.4**



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SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

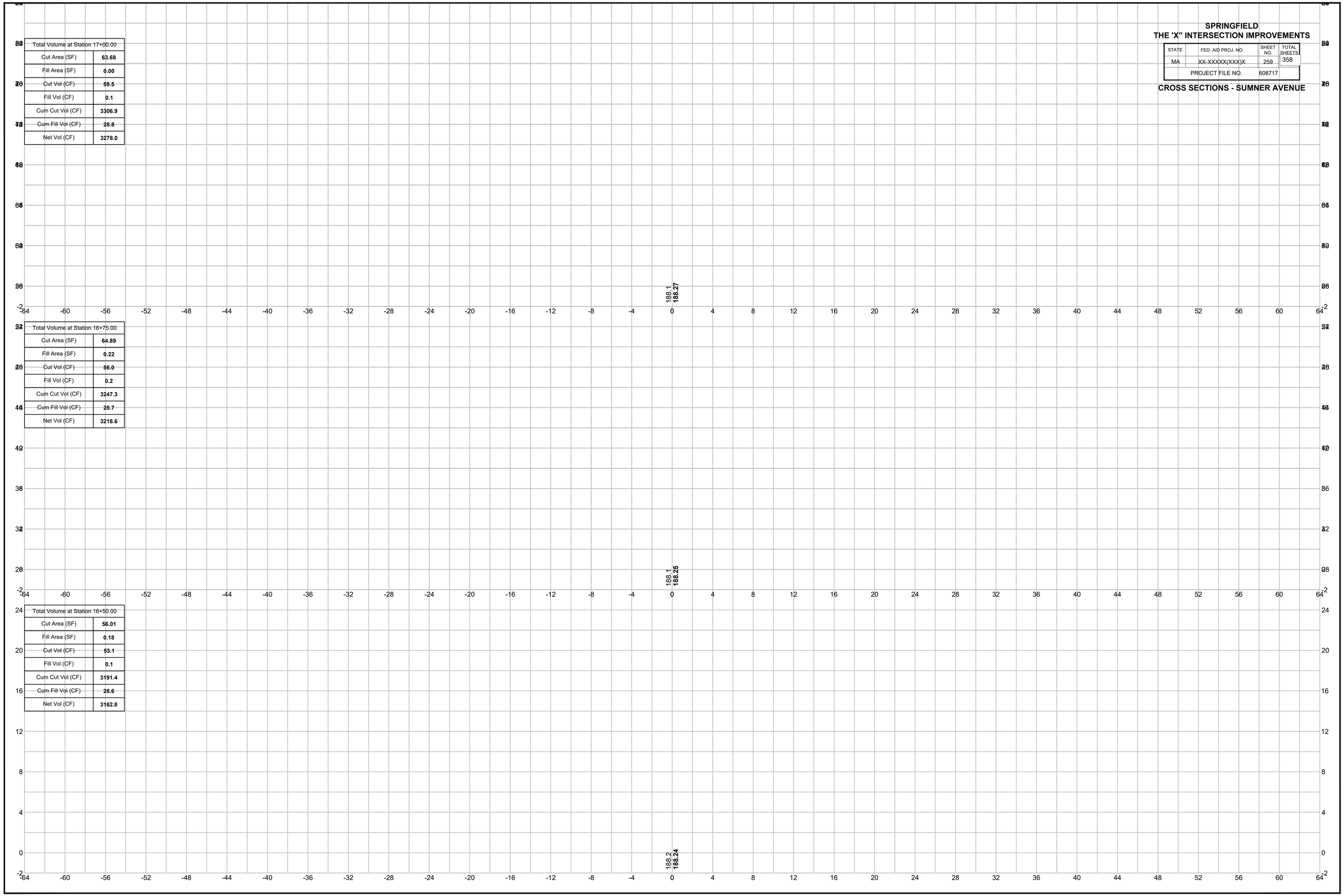
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	259	358
	PROJECT FILE NO.	608717	

CROSS SECTIONS - SUMNER AVENUE

Total Volume at Station 17+00.00	
Cut Area (SF)	63.68
Fill Area (SF)	0.00
Cut Vol (CF)	59.5
Fill Vol (CF)	0.1
Cum Cut Vol (CF)	3306.9
Cum Fill Vol (CF)	28.8
Net Vol (CF)	3278.0

Total Volume at Station 16+75.00	
Cut Area (SF)	64.89
Fill Area (SF)	0.22
Cut Vol (CF)	56.0
Fill Vol (CF)	0.2
Cum Cut Vol (CF)	3247.3
Cum Fill Vol (CF)	28.7
Net Vol (CF)	3218.6

Total Volume at Station 16+50.00	
Cut Area (SF)	56.01
Fill Area (SF)	0.18
Cut Vol (CF)	53.1
Fill Vol (CF)	0.1
Cum Cut Vol (CF)	3191.4
Cum Fill Vol (CF)	28.6
Net Vol (CF)	3162.8



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SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	260	358
	PROJECT FILE NO.	608717	

CROSS SECTIONS - SUMNER AVENUE

Total Volume at Station 17+50.00	
Cut Area (SF)	**50.07**
Fill Area (SF)	**1.18**
Cut Vol (CF)	**53.2**
Fill Vol (CF)	**0.5**
Cum Cut Vol (CF)	**3419.6**
Cum Fill Vol (CF)	**29.4**
Net Vol (CF)	**3390.2**

Total Volume at Station 17+25.00	
Cut Area (SF)	**64.91**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**59.5**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**3366.4**
Cum Fill Vol (CF)	**28.8**
Net Vol (CF)	**3337.6**

188.2
188.27

188.2
188.27

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SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

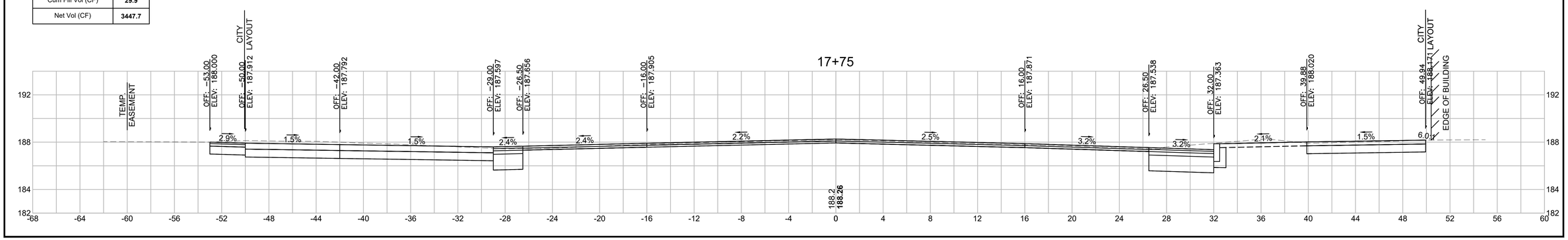
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	261	358
	PROJECT FILE NO.	608717	

CROSS SECTIONS - SUMNER AVENUE

Total Volume at Station 18+25.00	
Cut Area (SF)	**56.59**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**52.2**
Fill Vol (CF)	**0.1**
Cum Cut Vol (CF)	**3590.7**
Cum Fill Vol (CF)	**30.1**
Net Vol (CF)	**3560.6**

Total Volume at Station 18+00.00	
Cut Area (SF)	**56.16**
Fill Area (SF)	**0.18**
Cut Vol (CF)	**60.8**
Fill Vol (CF)	**0.1**
Cum Cut Vol (CF)	**3538.5**
Cum Fill Vol (CF)	**30.0**
Net Vol (CF)	**3508.4**

Total Volume at Station 17+75.00	
Cut Area (SF)	**75.22**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**58.0**
Fill Vol (CF)	**0.5**
Cum Cut Vol (CF)	**3477.6**
Cum Fill Vol (CF)	**29.9**
Net Vol (CF)	**3447.7**



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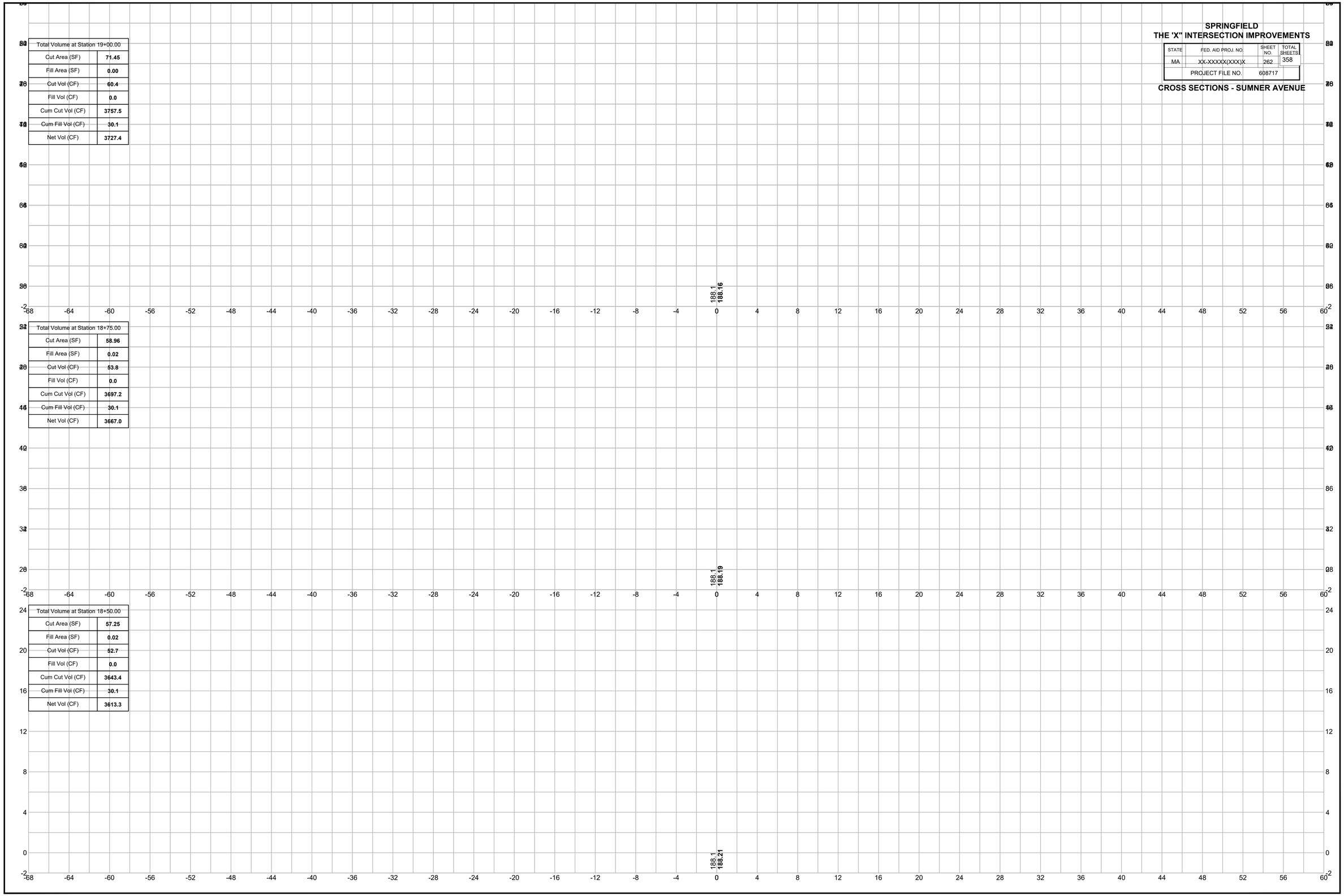
Total Volume at Station 19+00.00	
Cut Area (SF)	71.45
Fill Area (SF)	0.00
Cut Vol (CF)	60.4
Fill Vol (CF)	0.0
Cum Cut Vol (CF)	3757.5
Cum Fill Vol (CF)	30.1
Net Vol (CF)	3727.4



Total Volume at Station 18+75.00	
Cut Area (SF)	58.96
Fill Area (SF)	0.02
Cut Vol (CF)	53.8
Fill Vol (CF)	0.0
Cum Cut Vol (CF)	3697.2
Cum Fill Vol (CF)	30.1
Net Vol (CF)	3667.0

Total Volume at Station 18+50.00	
Cut Area (SF)	57.25
Fill Area (SF)	0.02
Cut Vol (CF)	52.7
Fill Vol (CF)	0.0
Cum Cut Vol (CF)	3643.4
Cum Fill Vol (CF)	30.1
Net Vol (CF)	3613.3

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	262	358
	PROJECT FILE NO.	608717	

CROSS SECTIONS - SUMNER AVENUE

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SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	263	358
	PROJECT FILE NO.	608717	

CROSS SECTIONS - SUMNER AVENUE

Total Volume at Station 19+50.00	
Cut Area (SF)	**65.95**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**73.5**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**3907.1**
Cum Fill Vol (CF)	**30.1**
Net Vol (CF)	**3876.9**

Total Volume at Station 19+25.00	
Cut Area (SF)	**92.80**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**76.0**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**3833.6**
Cum Fill Vol (CF)	**30.1**
Net Vol (CF)	**3803.4**



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SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	264	358
	PROJECT FILE NO.	608717	

CROSS SECTIONS - SUMNER AVENUE

Total Volume at Station 20+25.00	
Cut Area (SF)	109.24
Fill Area (SF)	0.00
Cut Vol (CF)	102.3
Fill Vol (CF)	0.0
Cum Cut Vol (CF)	4184.3
Cum Fill Vol (CF)	30.1
Net Vol (CF)	4154.2

Total Volume at Station 20+00.00	
Cut Area (SF)	111.76
Fill Area (SF)	0.00
Cut Vol (CF)	98.1
Fill Vol (CF)	0.0
Cum Cut Vol (CF)	4082.0
Cum Fill Vol (CF)	30.1
Net Vol (CF)	4051.9

Total Volume at Station 19+75.00	
Cut Area (SF)	100.05
Fill Area (SF)	0.00
Cut Vol (CF)	76.9
Fill Vol (CF)	0.0
Cum Cut Vol (CF)	3983.9
Cum Fill Vol (CF)	30.1
Net Vol (CF)	3953.8

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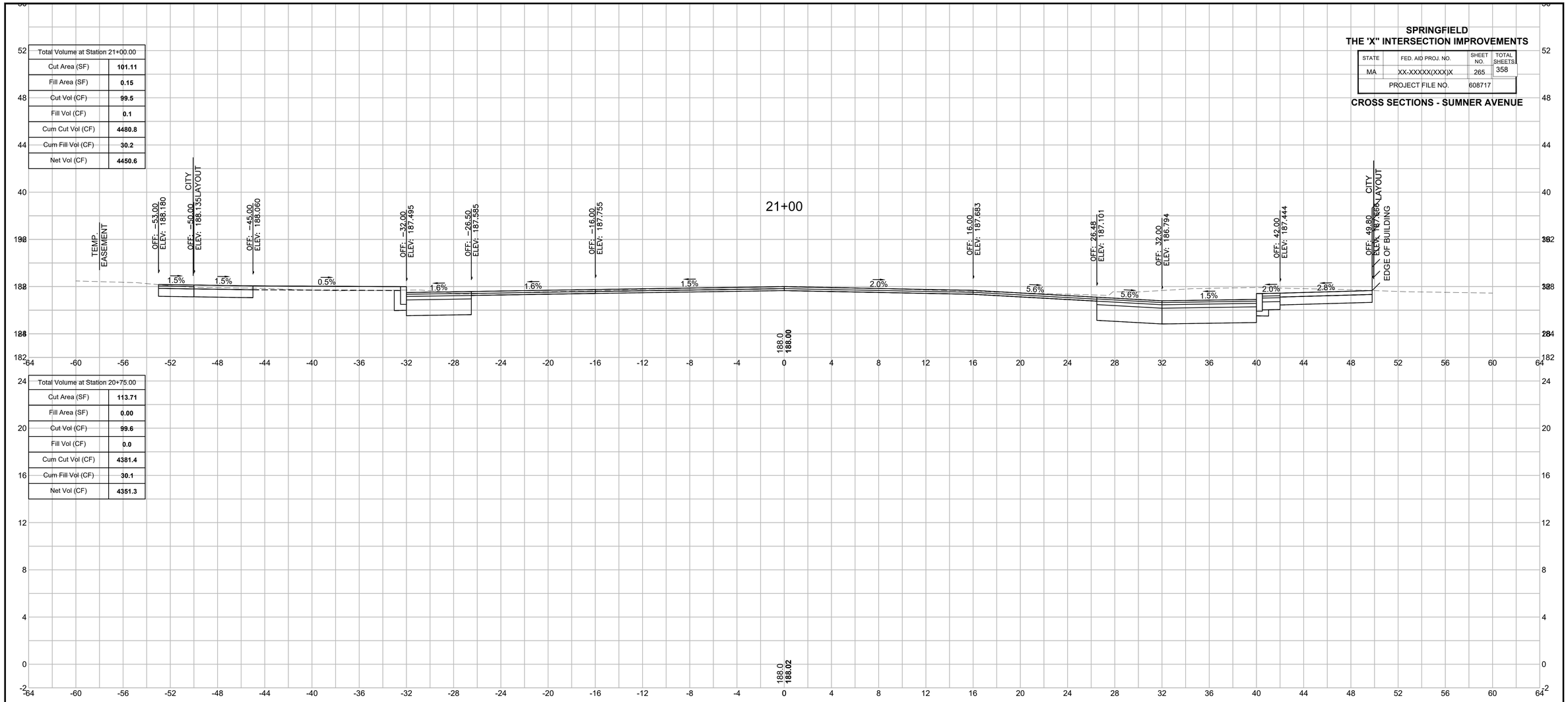
SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	265	358
	PROJECT FILE NO.	608717	

CROSS SECTIONS - SUMNER AVENUE

Total Volume at Station 21+00.00	
Cut Area (SF)	**101.11**
Fill Area (SF)	**0.15**
Cut Vol (CF)	**99.5**
Fill Vol (CF)	**0.1**
Cum Cut Vol (CF)	**4480.8**
Cum Fill Vol (CF)	**30.2**
Net Vol (CF)	**4450.6**



Total Volume at Station 20+75.00	
Cut Area (SF)	**113.71**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**99.6**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**4381.4**
Cum Fill Vol (CF)	**30.1**
Net Vol (CF)	**4351.3**

Total Volume at Station 20+50.00	
Cut Area (SF)	**101.37**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**97.5**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**4281.8**
Cum Fill Vol (CF)	**30.1**
Net Vol (CF)	**4251.7**

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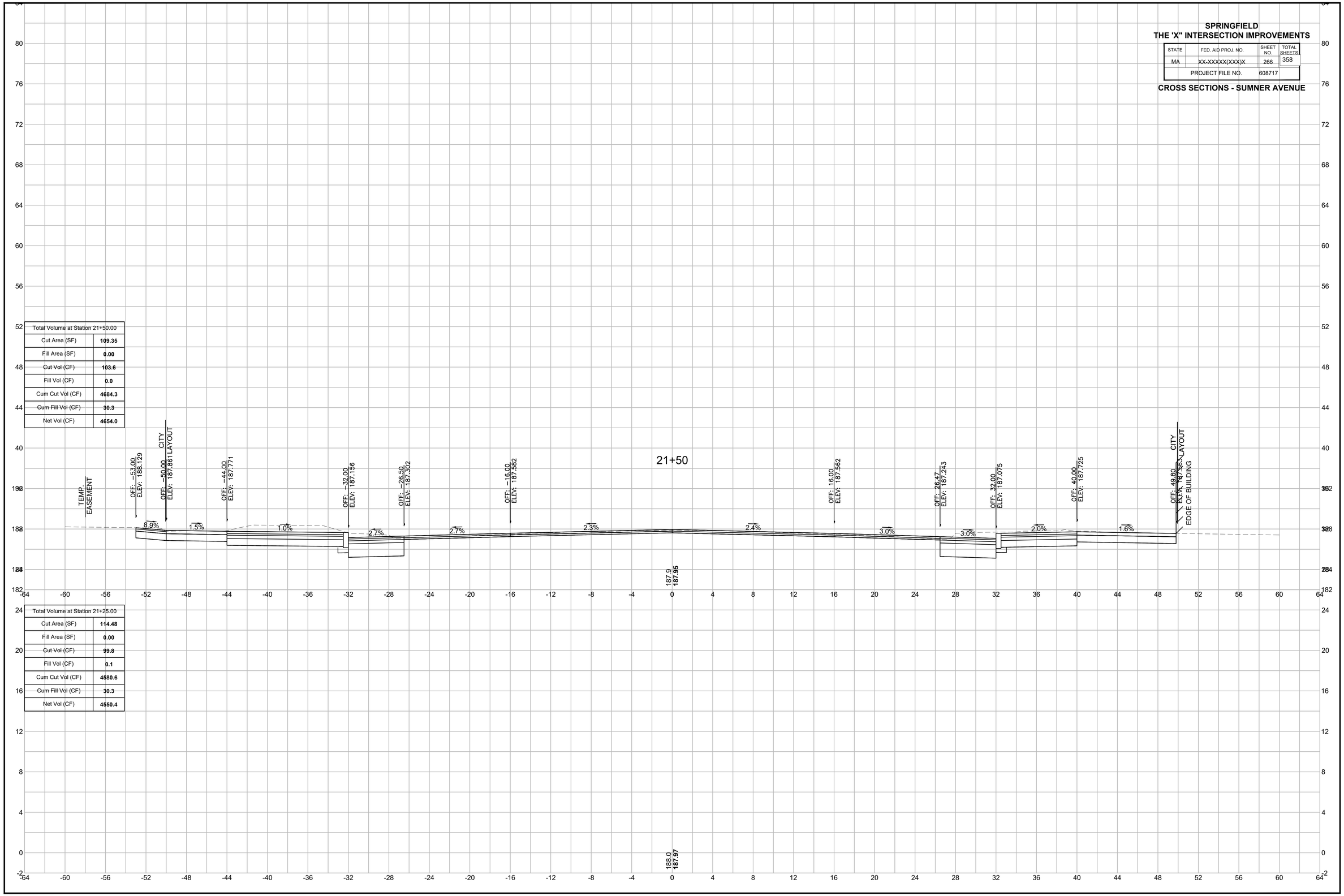
SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	266	358
	PROJECT FILE NO.	608717	

CROSS SECTIONS - SUMNER AVENUE

Total Volume at Station 21+50.00	
Cut Area (SF)	**109.35**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**103.6**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**4684.3**
Cum Fill Vol (CF)	**30.3**
Net Vol (CF)	**4654.0**

Total Volume at Station 21+25.00	
Cut Area (SF)	**114.48**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**99.8**
Fill Vol (CF)	**0.1**
Cum Cut Vol (CF)	**4580.6**
Cum Fill Vol (CF)	**30.3**
Net Vol (CF)	**4550.4**



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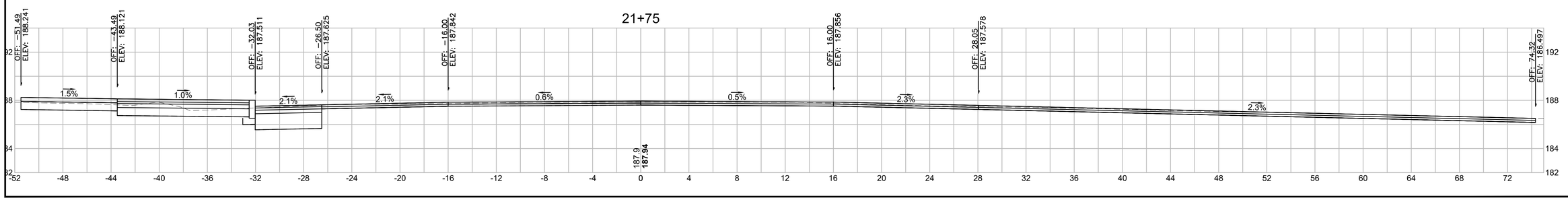
SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	267	358
PROJECT FILE NO.	608717		

CROSS SECTIONS - SUMNER AVENUE

Plotted on 5-May-2023 2:38 PM
20121457A70_XSC01_SUMNER.DWG

Total Volume at Station 21+75.00	
Cut Area (SF)	**54.82**
Fill Area (SF)	**7.74**
Cut Vol (CF)	**76.0**
Fill Vol (CF)	**3.6**
Cum Cut Vol (CF)	**4760.3**
Cum Fill Vol (CF)	**33.9**
Net Vol (CF)	**4726.4**



SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

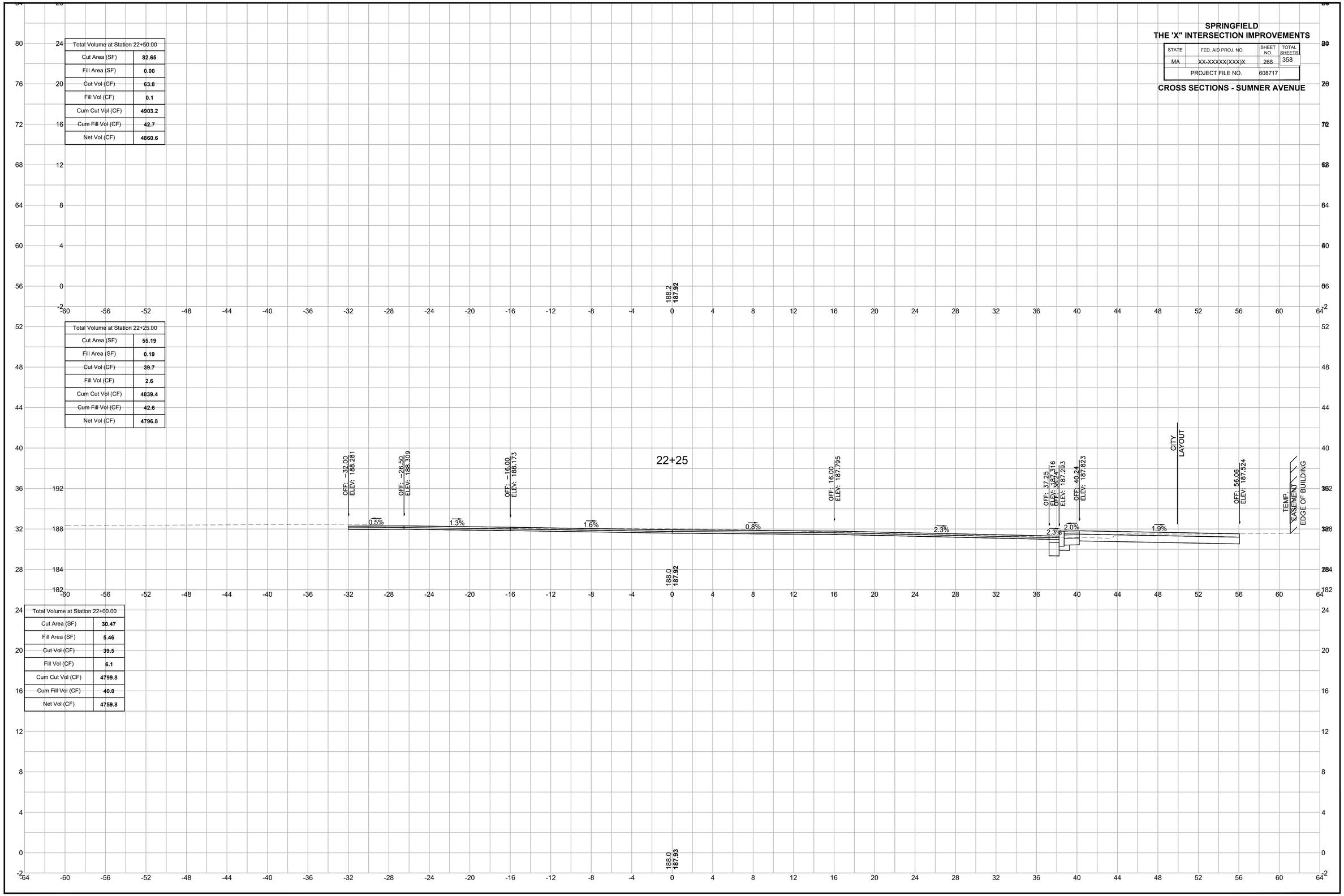
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	268	358
	PROJECT FILE NO.	608717	

CROSS SECTIONS - SUMNER AVENUE

Total Volume at Station 22+50.00	
Cut Area (SF)	**82.65**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**63.8**
Fill Vol (CF)	**0.1**
Cum Cut Vol (CF)	**4903.2**
Cum Fill Vol (CF)	**42.7**
Net Vol (CF)	**4860.6**

Total Volume at Station 22+25.00	
Cut Area (SF)	**55.19**
Fill Area (SF)	**0.19**
Cut Vol (CF)	**39.7**
Fill Vol (CF)	**2.6**
Cum Cut Vol (CF)	**4839.4**
Cum Fill Vol (CF)	**42.6**
Net Vol (CF)	**4796.8**

Total Volume at Station 22+00.00	
Cut Area (SF)	**30.47**
Fill Area (SF)	**5.46**
Cut Vol (CF)	**39.5**
Fill Vol (CF)	**6.1**
Cum Cut Vol (CF)	**4799.8**
Cum Fill Vol (CF)	**40.0**
Net Vol (CF)	**4759.8**



20121457A70_XSC01_SUMNER.DWG Plotted on 5-May-2023 2:39 PM

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

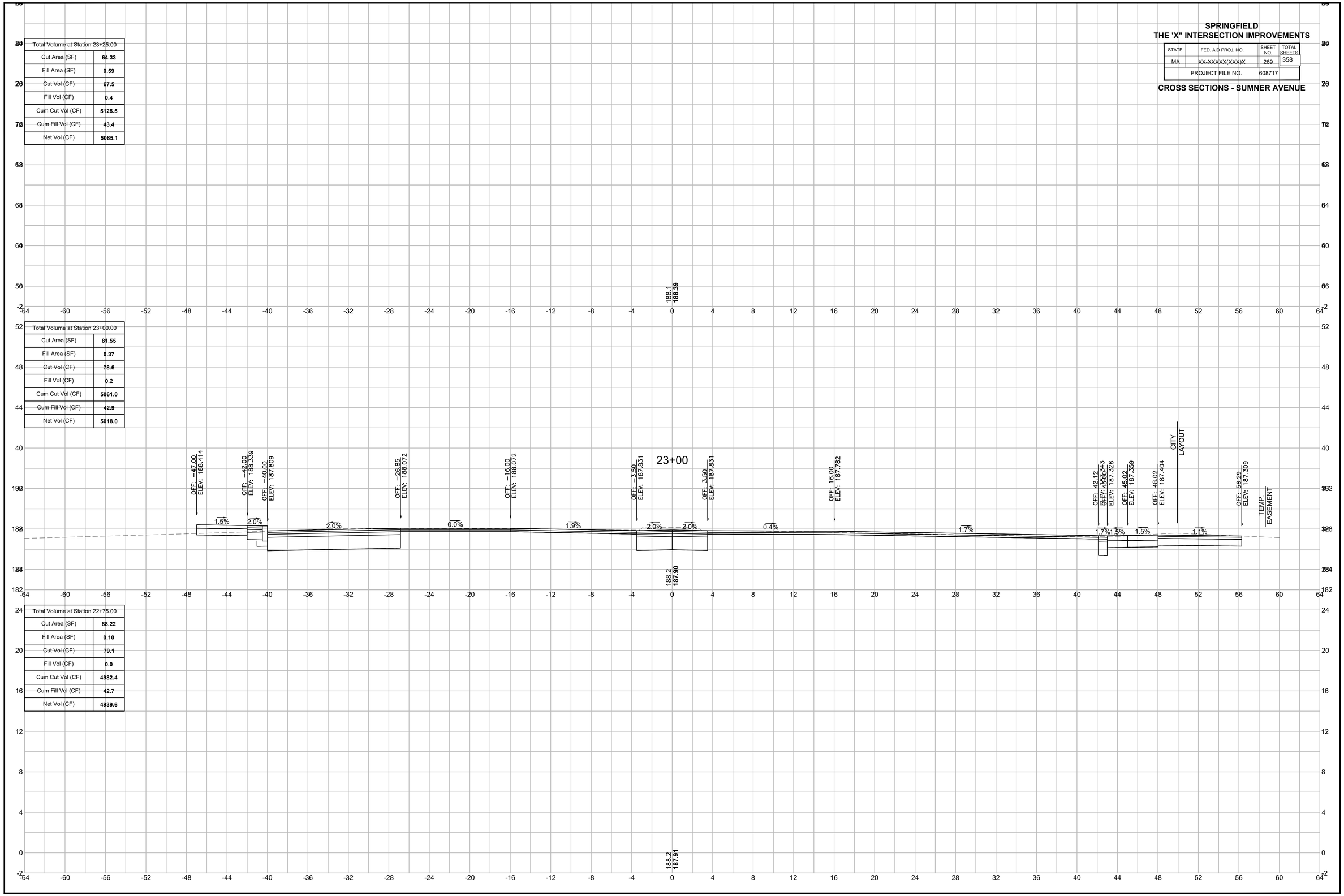
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	269	358
	PROJECT FILE NO.	608717	

CROSS SECTIONS - SUMNER AVENUE

Total Volume at Station 23+25.00	
Cut Area (SF)	64.33
Fill Area (SF)	0.59
Cut Vol (CF)	67.5
Fill Vol (CF)	0.4
Cum Cut Vol (CF)	5128.5
Cum Fill Vol (CF)	43.4
Net Vol (CF)	5085.1

Total Volume at Station 23+00.00	
Cut Area (SF)	81.55
Fill Area (SF)	0.37
Cut Vol (CF)	78.6
Fill Vol (CF)	0.2
Cum Cut Vol (CF)	5061.0
Cum Fill Vol (CF)	42.9
Net Vol (CF)	5018.0

Total Volume at Station 22+75.00	
Cut Area (SF)	88.22
Fill Area (SF)	0.10
Cut Vol (CF)	79.1
Fill Vol (CF)	0.0
Cum Cut Vol (CF)	4982.4
Cum Fill Vol (CF)	42.7
Net Vol (CF)	4939.6



20121457A70_XSC01_SUMNER.DWG Plotted on 5-May-2023 2:39 PM

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

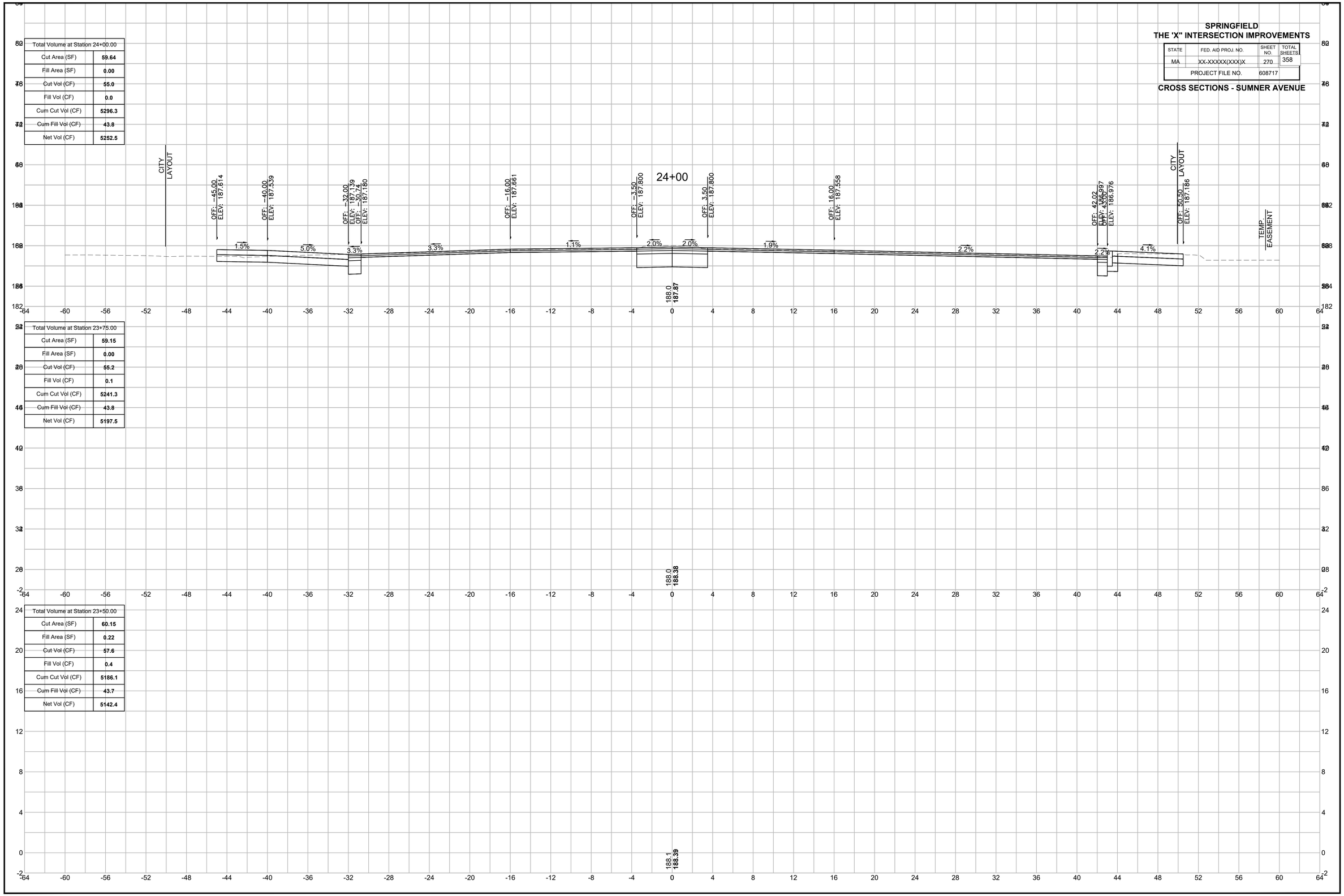
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	270	358
	PROJECT FILE NO.	608717	

CROSS SECTIONS - SUMNER AVENUE

Total Volume at Station 24+00.00	
Cut Area (SF)	**59.64**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**55.0**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**5296.3**
Cum Fill Vol (CF)	**43.8**
Net Vol (CF)	**5252.5**

Total Volume at Station 23+75.00	
Cut Area (SF)	**59.15**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**55.2**
Fill Vol (CF)	**0.1**
Cum Cut Vol (CF)	**5241.3**
Cum Fill Vol (CF)	**43.8**
Net Vol (CF)	**5197.5**

Total Volume at Station 23+50.00	
Cut Area (SF)	**60.15**
Fill Area (SF)	**0.22**
Cut Vol (CF)	**57.6**
Fill Vol (CF)	**0.4**
Cum Cut Vol (CF)	**5186.1**
Cum Fill Vol (CF)	**43.7**
Net Vol (CF)	**5142.4**



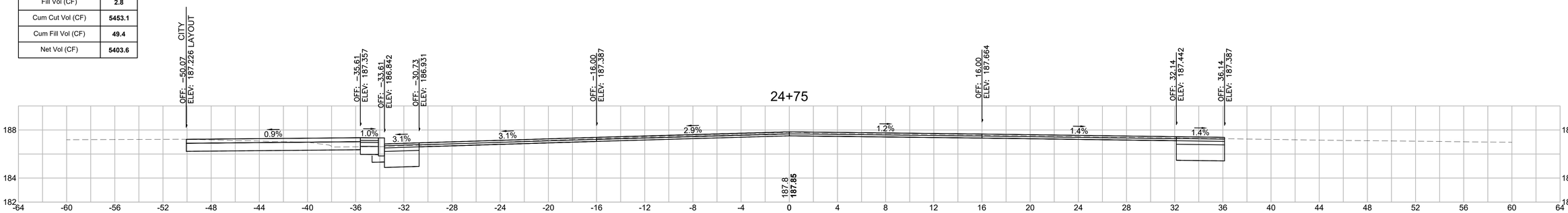
20121457A70_XSC01_SUMNER.DWG Plotted on 5-May-2023 2:39 PM

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

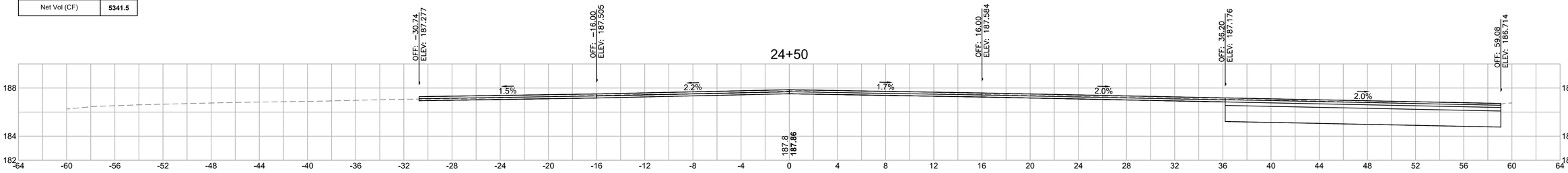
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	271	358
	PROJECT FILE NO.	608717	

CROSS SECTIONS - SUMNER AVENUE

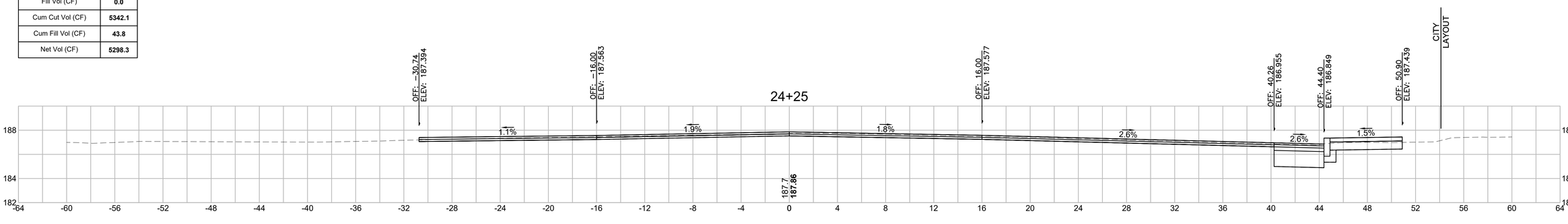
Total Volume at Station 24+75.00	
Cut Area (SF)	**79.97**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**64.9**
Fill Vol (CF)	**2.8**
Cum Cut Vol (CF)	**5453.1**
Cum Fill Vol (CF)	**49.4**
Net Vol (CF)	**5403.6**



Total Volume at Station 24+50.00	
Cut Area (SF)	**60.17**
Fill Area (SF)	**6.02**
Cut Vol (CF)	**46.0**
Fill Vol (CF)	**2.8**
Cum Cut Vol (CF)	**5388.2**
Cum Fill Vol (CF)	**46.6**
Net Vol (CF)	**5341.5**



Total Volume at Station 24+25.00	
Cut Area (SF)	**39.27**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**45.8**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**5342.1**
Cum Fill Vol (CF)	**43.8**
Net Vol (CF)	**5298.3**



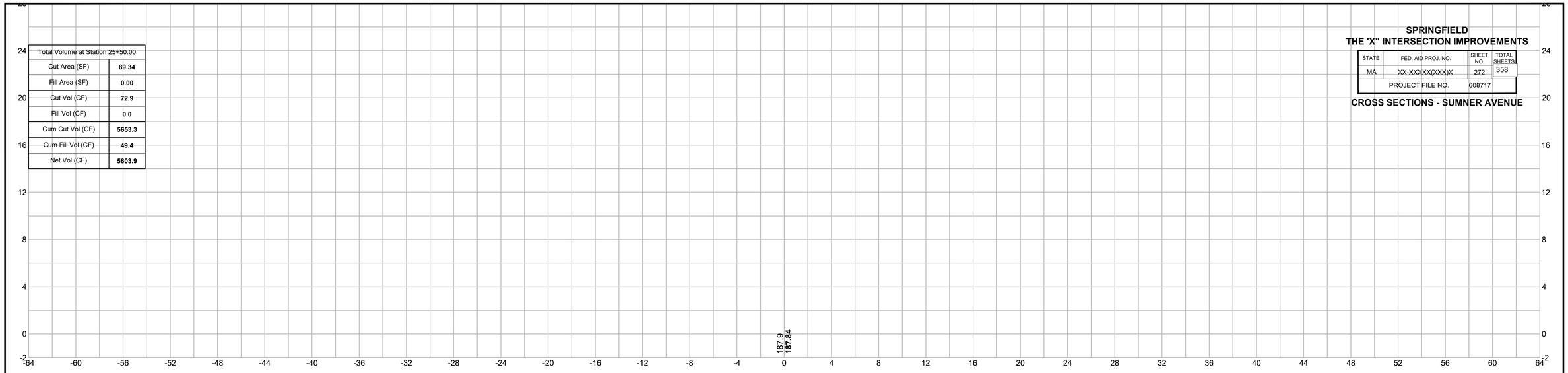
20121457A70_XSC01_SUMNER.DWG Plotted on 5-May-2023 2:39 PM

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

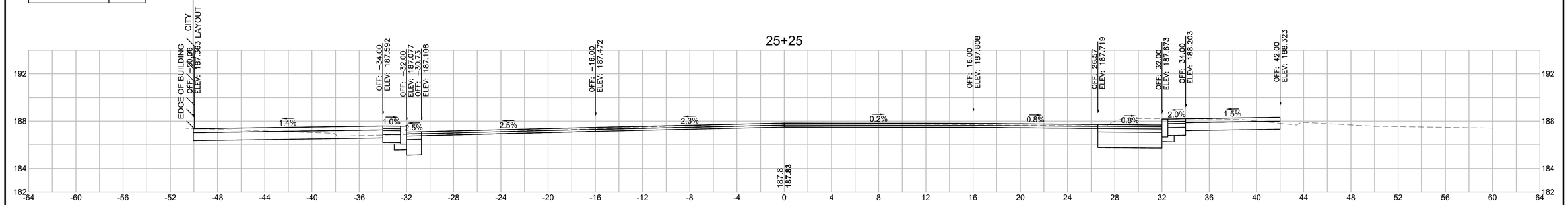
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	272	358
	PROJECT FILE NO.	608717	

CROSS SECTIONS - SUMNER AVENUE

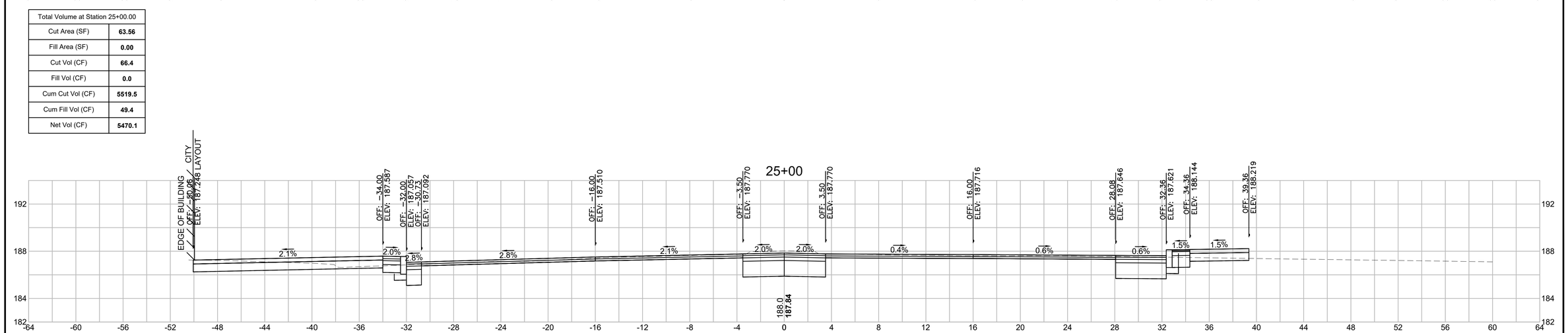
Total Volume at Station 25+50.00	
Cut Area (SF)	**89.34**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**72.9**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**5653.3**
Cum Fill Vol (CF)	**49.4**
Net Vol (CF)	**5603.9**



Total Volume at Station 25+25.00	
Cut Area (SF)	**68.06**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**60.9**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**5580.4**
Cum Fill Vol (CF)	**49.4**
Net Vol (CF)	**5531.0**



Total Volume at Station 25+00.00	
Cut Area (SF)	**63.56**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**66.4**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**5519.5**
Cum Fill Vol (CF)	**49.4**
Net Vol (CF)	**5470.1**



20121457A70_XSC01_SUMNER.DWG Plotted on 5-May-2023 2:39 PM

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

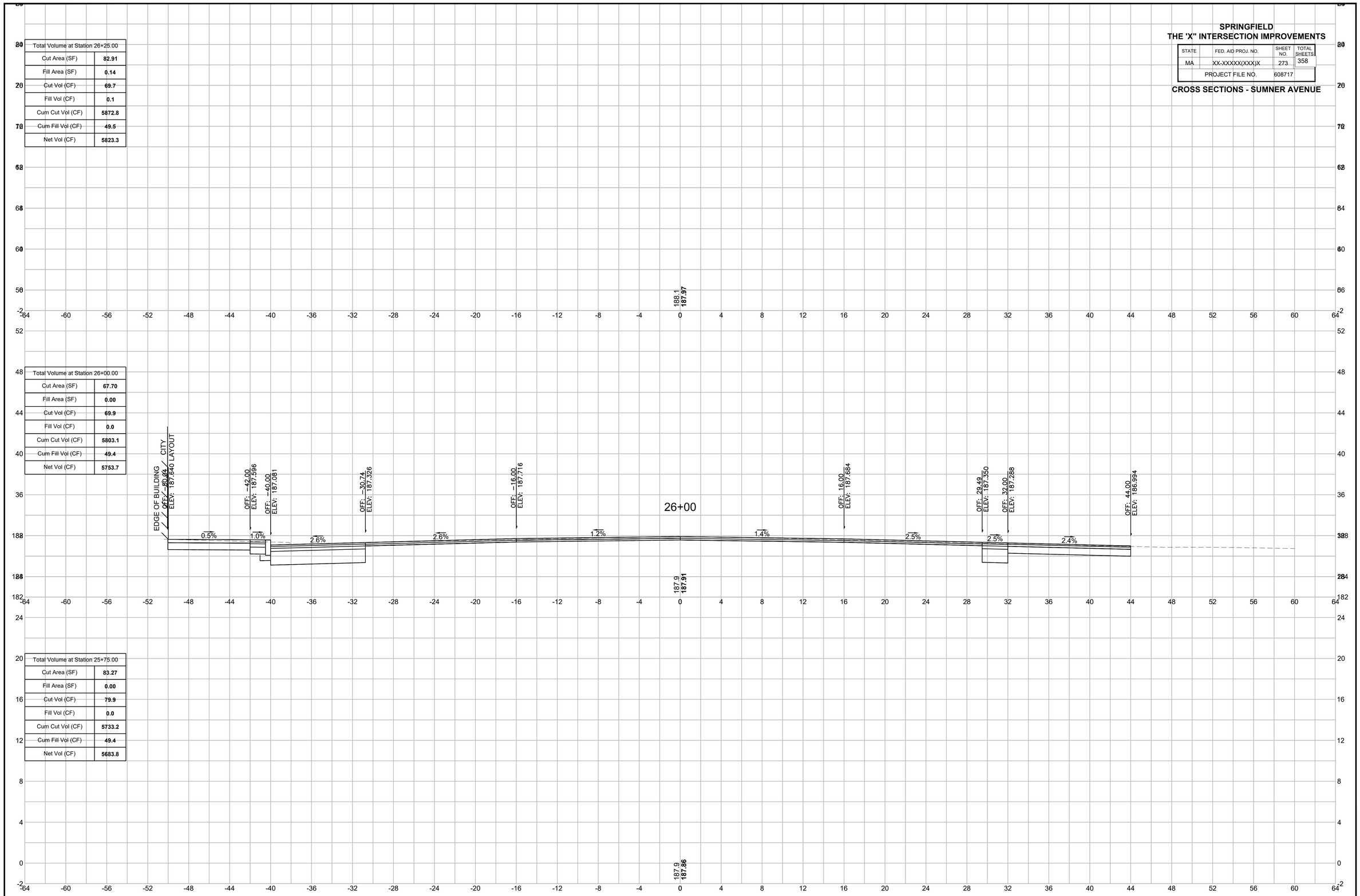
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	273	358
	PROJECT FILE NO.	608717	

CROSS SECTIONS - SUMNER AVENUE

Total Volume at Station 26+25.00	
Cut Area (SF)	**82.91**
Fill Area (SF)	**0.14**
Cut Vol (CF)	**69.7**
Fill Vol (CF)	**0.1**
Cum Cut Vol (CF)	**5872.8**
Cum Fill Vol (CF)	**49.5**
Net Vol (CF)	**5823.3**

Total Volume at Station 26+00.00	
Cut Area (SF)	**67.70**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**69.9**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**5803.1**
Cum Fill Vol (CF)	**49.4**
Net Vol (CF)	**5753.7**

Total Volume at Station 25+75.00	
Cut Area (SF)	**83.27**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**79.9**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**5733.2**
Cum Fill Vol (CF)	**49.4**
Net Vol (CF)	**5683.8**



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SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

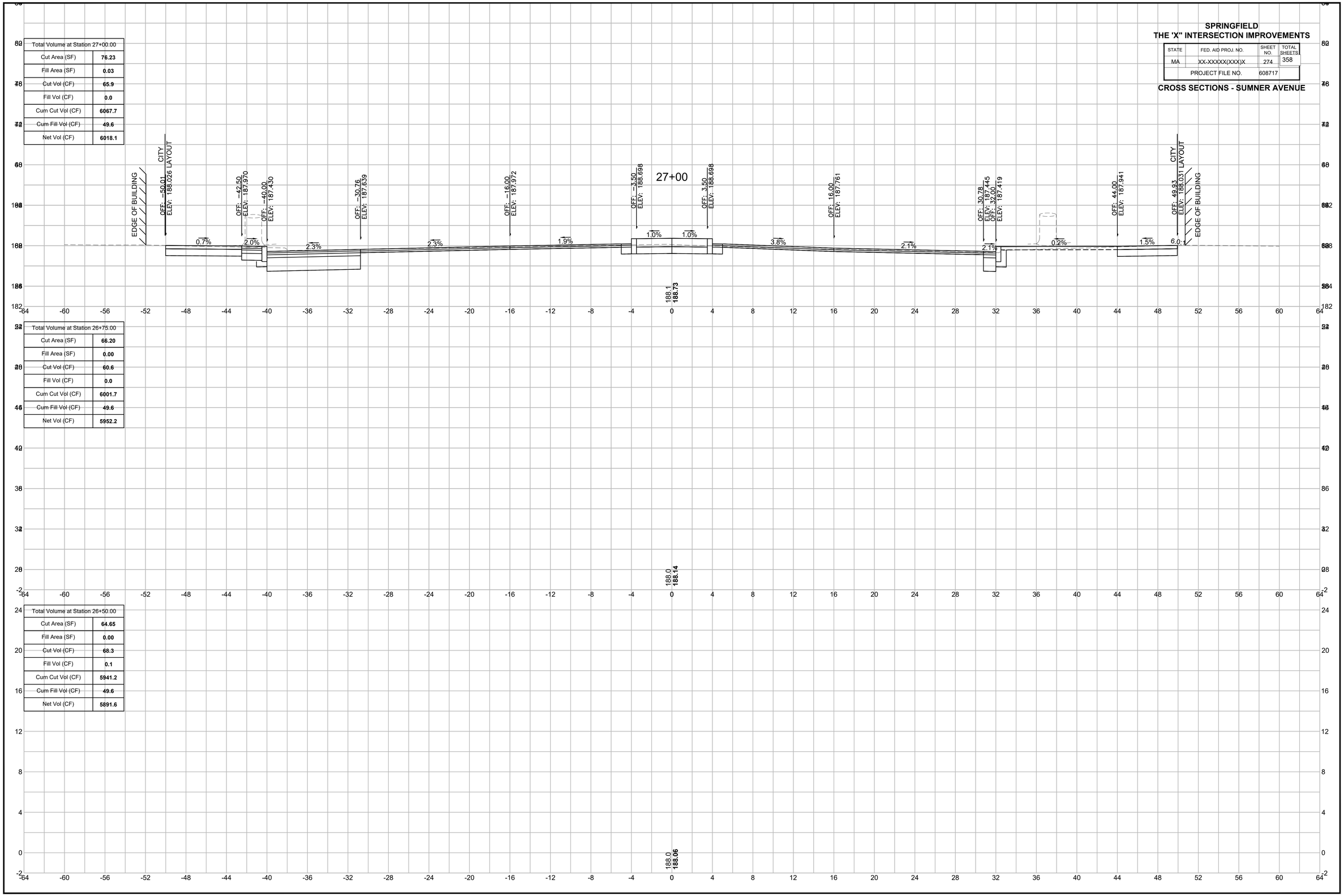
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	274	358
	PROJECT FILE NO.	608717	

CROSS SECTIONS - SUMNER AVENUE

Total Volume at Station 27+00.00	
Cut Area (SF)	76.23
Fill Area (SF)	0.03
Cut Vol (CF)	65.9
Fill Vol (CF)	0.0
Cum Cut Vol (CF)	6067.7
Cum Fill Vol (CF)	49.6
Net Vol (CF)	6018.1

Total Volume at Station 26+75.00	
Cut Area (SF)	66.20
Fill Area (SF)	0.00
Cut Vol (CF)	60.6
Fill Vol (CF)	0.0
Cum Cut Vol (CF)	6001.7
Cum Fill Vol (CF)	49.6
Net Vol (CF)	5952.2

Total Volume at Station 26+50.00	
Cut Area (SF)	64.65
Fill Area (SF)	0.00
Cut Vol (CF)	68.3
Fill Vol (CF)	0.1
Cum Cut Vol (CF)	5941.2
Cum Fill Vol (CF)	49.6
Net Vol (CF)	5891.6



20121457A70_XSC01_SUMNER.DWG Plotted on 5-May-2023 2:39 PM

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	275	358
	PROJECT FILE NO.	608717	

CROSS SECTIONS - SUMNER AVENUE

Total Volume at Station 27+25.00	
Cut Area (SF)	**65.93**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**65.8**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**6133.5**
Cum Fill Vol (CF)	**49.6**
Net Vol (CF)	**6083.9**

188.2
188.82

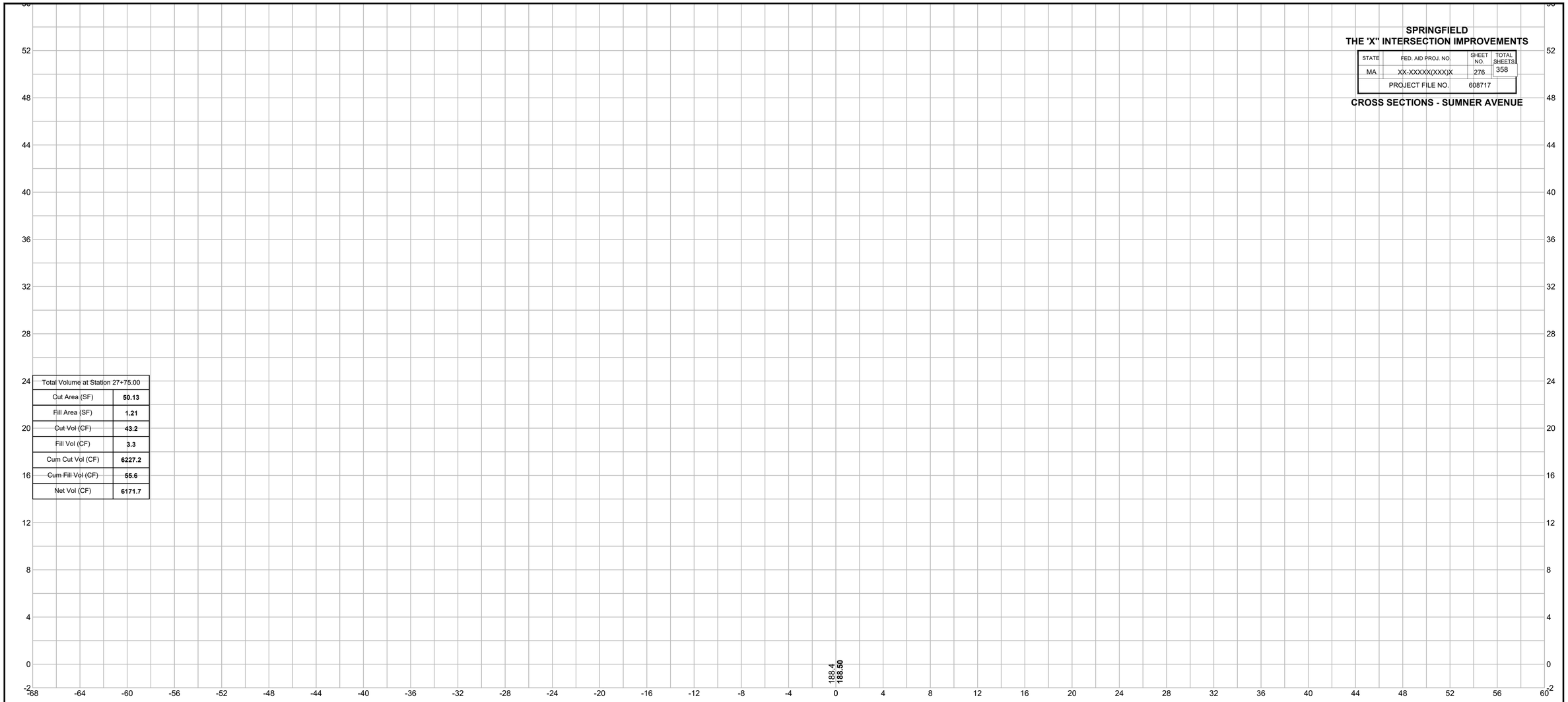
Plotted on 5-May-2023 2:40 PM
20121457A70_XSC01_SUMNER.DWG

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

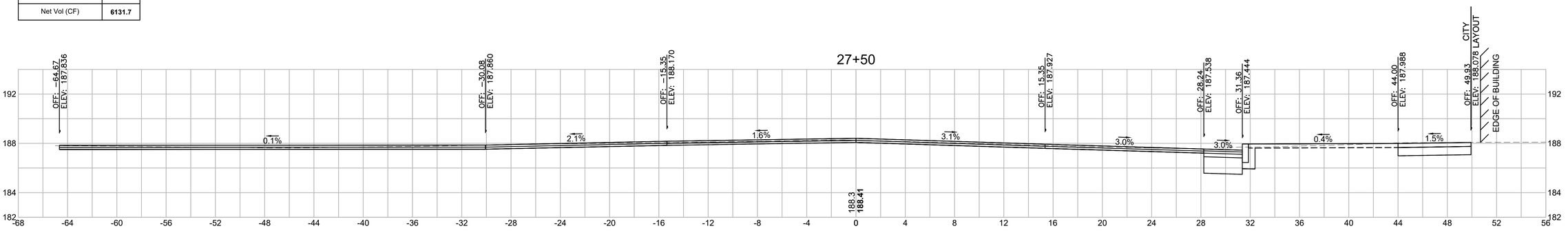
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	276	358
	PROJECT FILE NO.	608717	

CROSS SECTIONS - SUMNER AVENUE

Total Volume at Station 27+75.00	
Cut Area (SF)	**50.13**
Fill Area (SF)	**1.21**
Cut Vol (CF)	**43.2**
Fill Vol (CF)	**3.3**
Cum Cut Vol (CF)	**6227.2**
Cum Fill Vol (CF)	**55.6**
Net Vol (CF)	**6171.7**



Total Volume at Station 27+50.00	
Cut Area (SF)	**43.21**
Fill Area (SF)	**5.85**
Cut Vol (CF)	**50.5**
Fill Vol (CF)	**2.7**
Cum Cut Vol (CF)	**6184.0**
Cum Fill Vol (CF)	**52.3**
Net Vol (CF)	**6131.7**



20121457A70_XSC01_SUMNER.DWG Plotted on 5-May-2023 2:40 PM

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

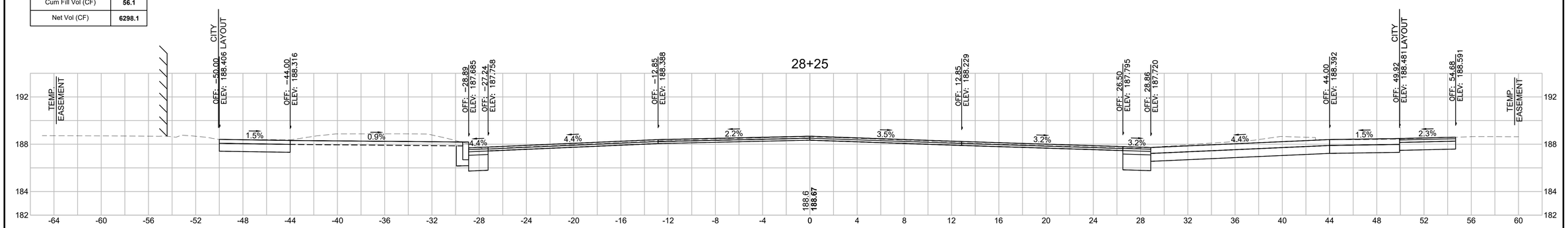
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	277	358
	PROJECT FILE NO. 608717		

CROSS SECTIONS - SUMNER AVENUE

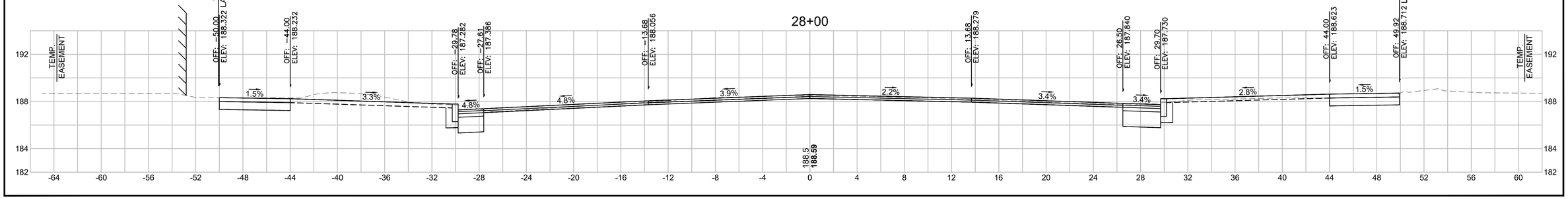
Total Volume at Station 28+50.00	
Cut Area (SF)	**65.55**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**69.5**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**6423.8**
Cum Fill Vol (CF)	**56.1**
Net Vol (CF)	**6367.7**

188.7
188.76

Total Volume at Station 28+25.00	
Cut Area (SF)	**84.67**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**71.5**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**6354.3**
Cum Fill Vol (CF)	**56.1**
Net Vol (CF)	**6298.1**



Total Volume at Station 28+00.00	
Cut Area (SF)	**69.80**
Fill Area (SF)	**0.01**
Cut Vol (CF)	**55.5**
Fill Vol (CF)	**0.6**
Cum Cut Vol (CF)	**6282.7**
Cum Fill Vol (CF)	**56.1**
Net Vol (CF)	**6226.6**



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SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	278	358
	PROJECT FILE NO. 608717		

CROSS SECTIONS - SUMNER AVENUE

Total Volume at Station 28+65.00	
Cut Area (SF)	**72.65**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**38.4**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**6462.2**
Cum Fill Vol (CF)	**56.1**
Net Vol (CF)	**6406.1**

188.7
188.82

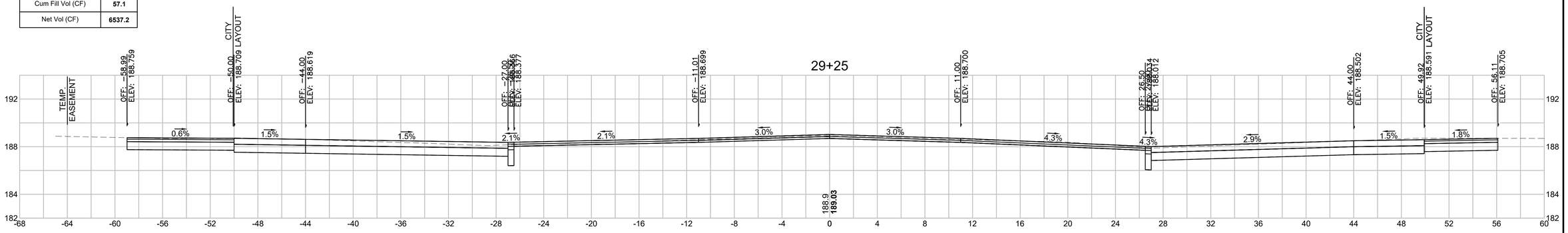
20121457A70_XSC01_SUMNER.DWG Plotted on 5-May-2023 2:40 PM

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

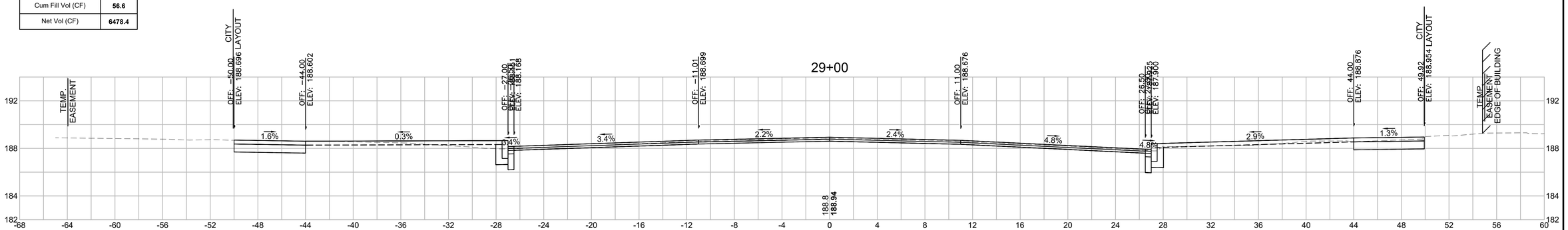
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	279	358
PROJECT FILE NO.	608717		

CROSS SECTIONS - SUMNER AVENUE

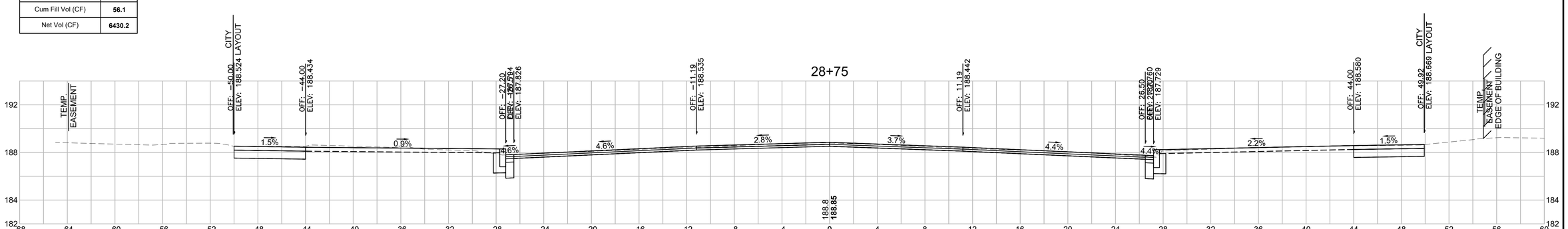
Total Volume at Station 29+25.00	
Cut Area (SF)	**80.77**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**59.3**
Fill Vol (CF)	**0.5**
Cum Cut Vol (CF)	**6594.2**
Cum Fill Vol (CF)	**57.1**
Net Vol (CF)	**6537.2**



Total Volume at Station 29+00.00	
Cut Area (SF)	**47.28**
Fill Area (SF)	**1.01**
Cut Vol (CF)	**48.6**
Fill Vol (CF)	**0.5**
Cum Cut Vol (CF)	**6534.9**
Cum Fill Vol (CF)	**56.6**
Net Vol (CF)	**6478.4**



Total Volume at Station 28+75.00	
Cut Area (SF)	**57.70**
Fill Area (SF)	**0.01**
Cut Vol (CF)	**24.1**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**6486.3**
Cum Fill Vol (CF)	**56.1**
Net Vol (CF)	**6430.2**



20121457A70_XSC01_SUMNER.DWG Plotted on 5-May-2023 2:40 PM

SPRINGFIELD
THE 'X' INTERSECTION IMPROVEMENTS

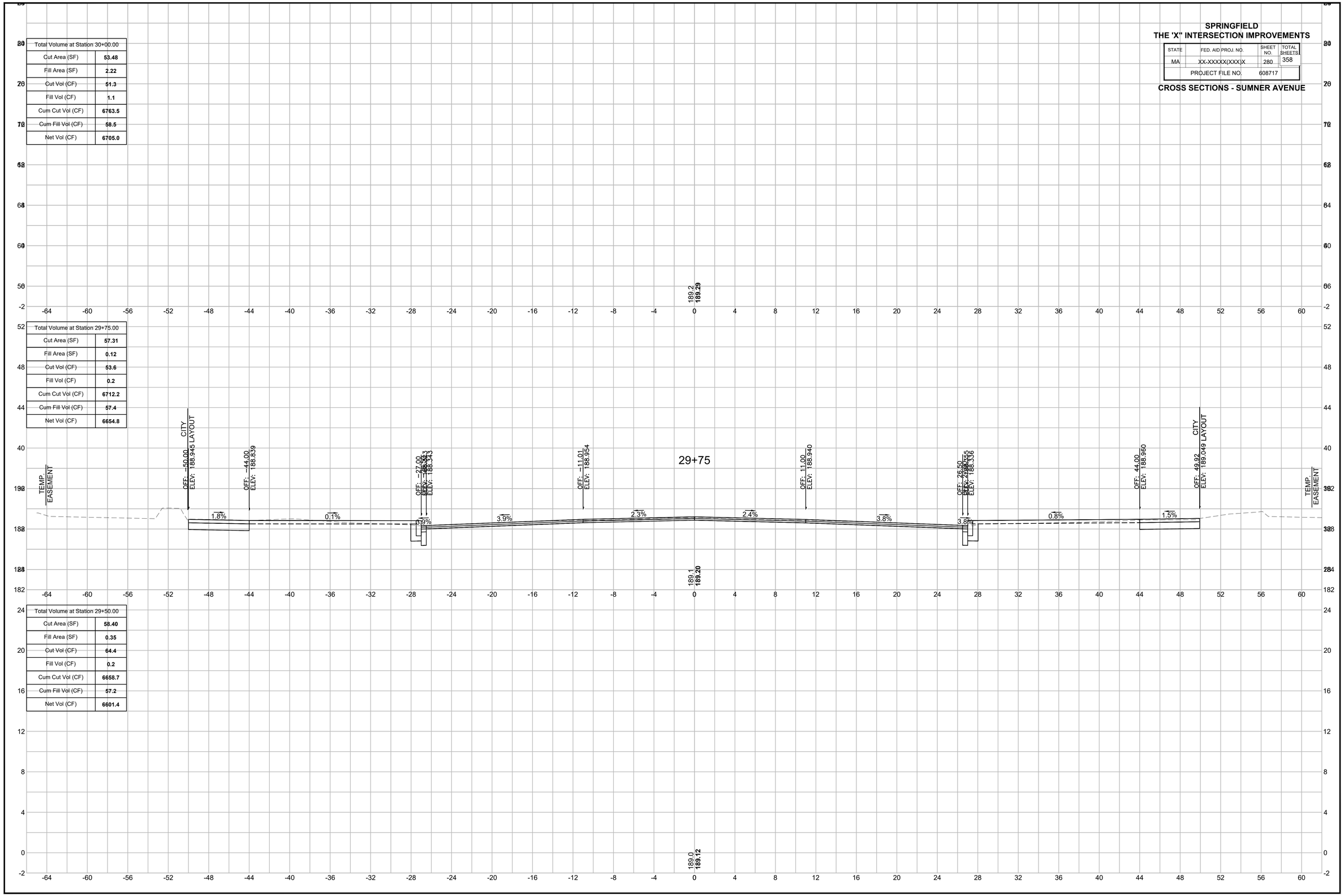
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	280	358
	PROJECT FILE NO. 608717		

CROSS SECTIONS - SUMNER AVENUE

Total Volume at Station 30+00.00	
Cut Area (SF)	53.48
Fill Area (SF)	2.22
Cut Vol (CF)	51.3
Fill Vol (CF)	1.1
Cum Cut Vol (CF)	6763.5
Cum Fill Vol (CF)	58.5
Net Vol (CF)	6705.0

Total Volume at Station 29+75.00	
Cut Area (SF)	57.31
Fill Area (SF)	0.12
Cut Vol (CF)	53.6
Fill Vol (CF)	0.2
Cum Cut Vol (CF)	6712.2
Cum Fill Vol (CF)	57.4
Net Vol (CF)	6654.8

Total Volume at Station 29+50.00	
Cut Area (SF)	58.40
Fill Area (SF)	0.35
Cut Vol (CF)	64.4
Fill Vol (CF)	0.2
Cum Cut Vol (CF)	6658.7
Cum Fill Vol (CF)	57.2
Net Vol (CF)	6601.4



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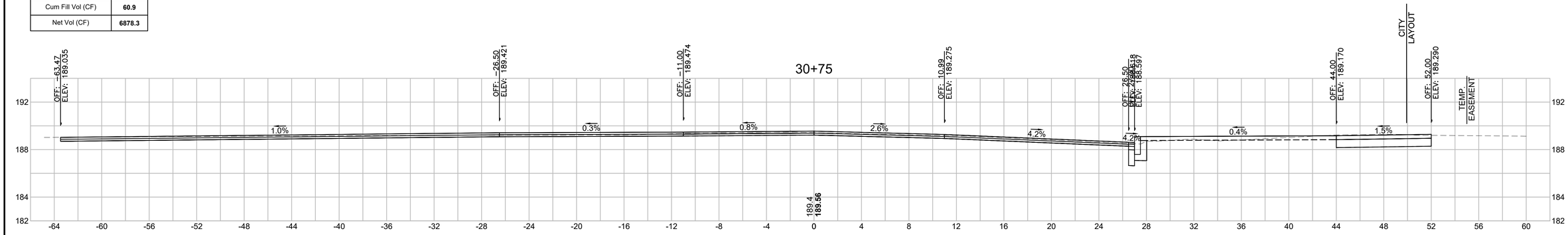
20121457A70_XSC01_SUMNER.DWG

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

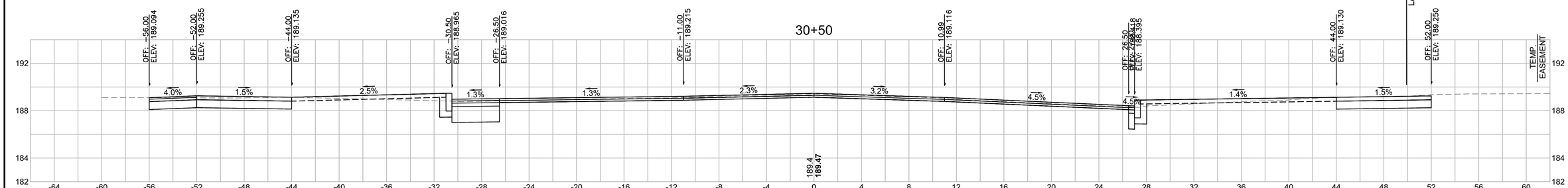
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	281	358
	PROJECT FILE NO. 608717		

CROSS SECTIONS - SUMNER AVENUE

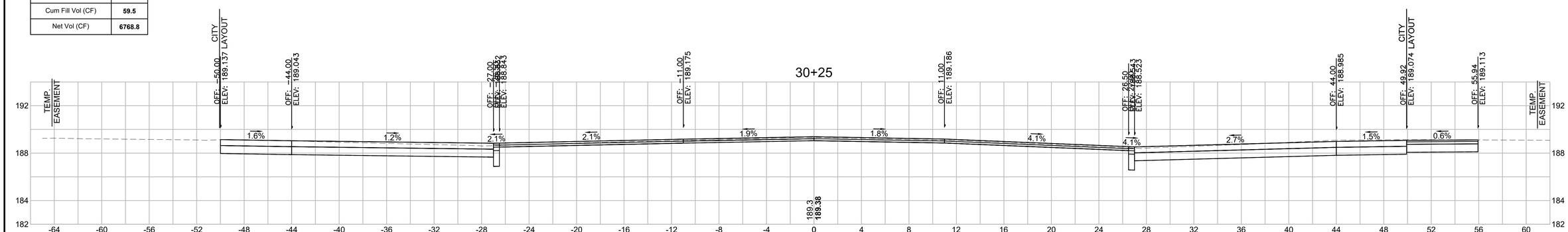
Total Volume at Station 30+75.00	
Cut Area (SF)	**44.89**
Fill Area (SF)	**0.18**
Cut Vol (CF)	**45.8**
Fill Vol (CF)	**0.7**
Cum Cut Vol (CF)	**6939.2**
Cum Fill Vol (CF)	**60.9**
Net Vol (CF)	**6878.3**



Total Volume at Station 30+50.00	
Cut Area (SF)	**53.98**
Fill Area (SF)	**1.34**
Cut Vol (CF)	**65.1**
Fill Vol (CF)	**0.6**
Cum Cut Vol (CF)	**6893.4**
Cum Fill Vol (CF)	**60.2**
Net Vol (CF)	**6833.2**



Total Volume at Station 30+25.00	
Cut Area (SF)	**86.54**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**64.8**
Fill Vol (CF)	**1.0**
Cum Cut Vol (CF)	**6828.3**
Cum Fill Vol (CF)	**59.5**
Net Vol (CF)	**6768.8**



20121457A70_XSC01_SUMNER.DWG Plotted on 5-May-2023 2:40 PM

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

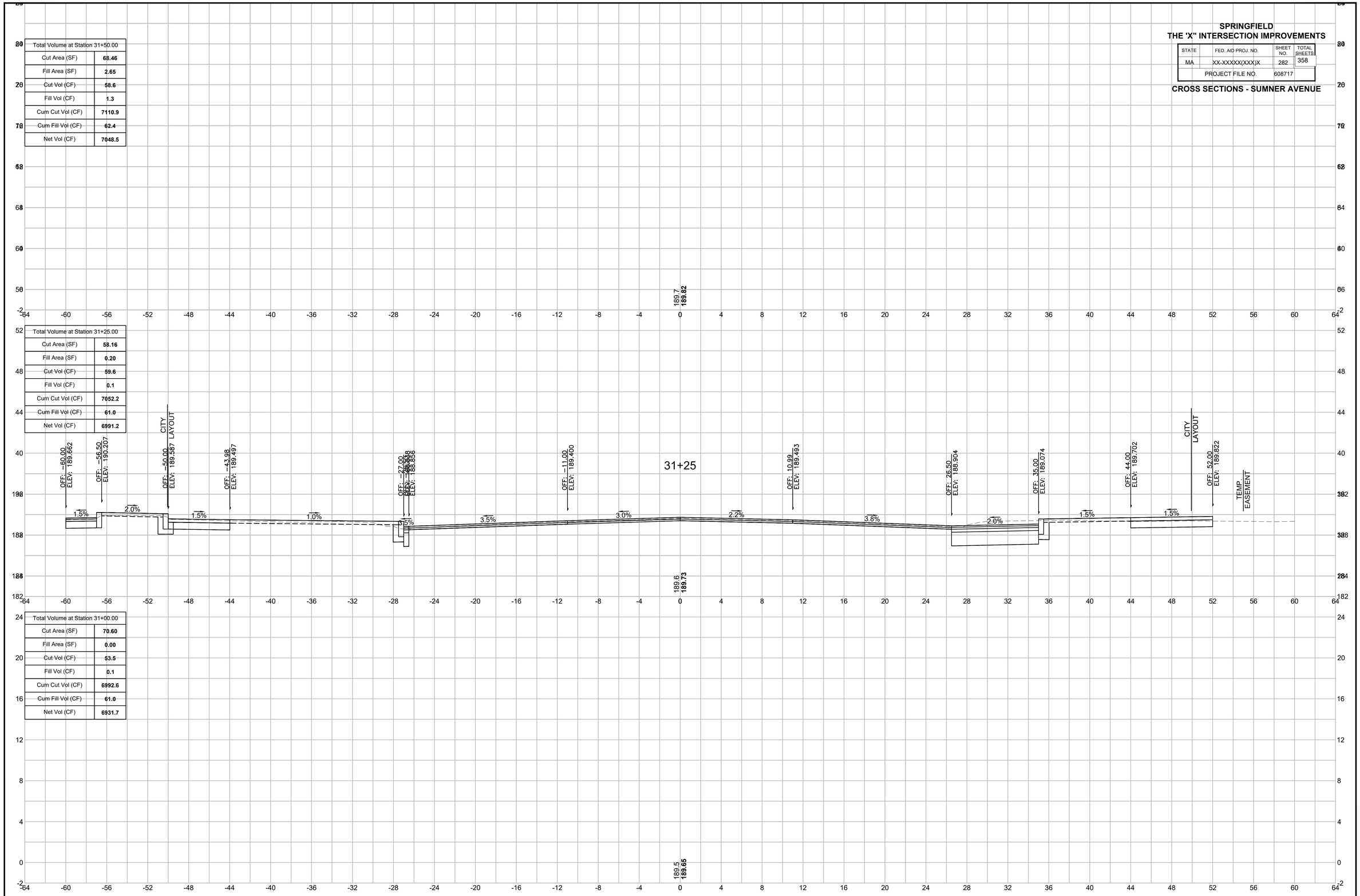
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	282	358
	PROJECT FILE NO.	608717	

CROSS SECTIONS - SUMNER AVENUE

Total Volume at Station 31+50.00	
Cut Area (SF)	68.46
Fill Area (SF)	2.65
Cut Vol (CF)	58.6
Fill Vol (CF)	1.3
Cum Cut Vol (CF)	7110.9
Cum Fill Vol (CF)	62.4
Net Vol (CF)	7048.5

Total Volume at Station 31+25.00	
Cut Area (SF)	58.16
Fill Area (SF)	0.20
Cut Vol (CF)	59.6
Fill Vol (CF)	0.1
Cum Cut Vol (CF)	7052.2
Cum Fill Vol (CF)	61.0
Net Vol (CF)	6991.2

Total Volume at Station 31+00.00	
Cut Area (SF)	70.60
Fill Area (SF)	0.00
Cut Vol (CF)	53.5
Fill Vol (CF)	0.1
Cum Cut Vol (CF)	6992.6
Cum Fill Vol (CF)	61.0
Net Vol (CF)	6931.7



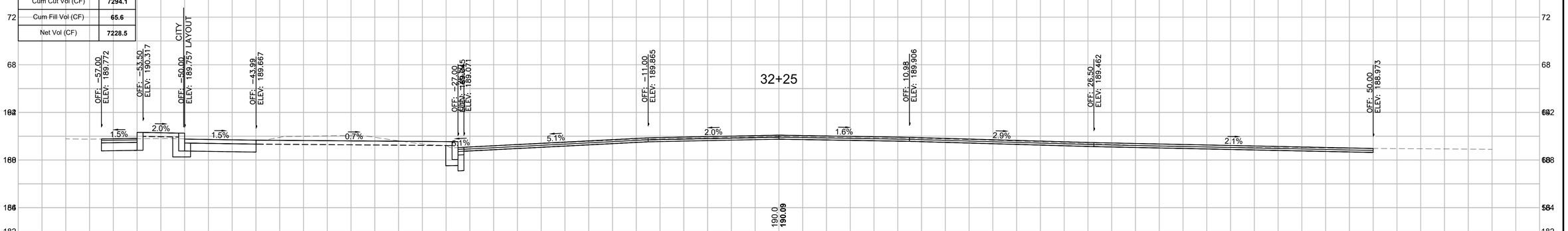
20121457A70_XSC01_SUMNER.DWG Plotted on 5-May-2023 2:41 PM

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

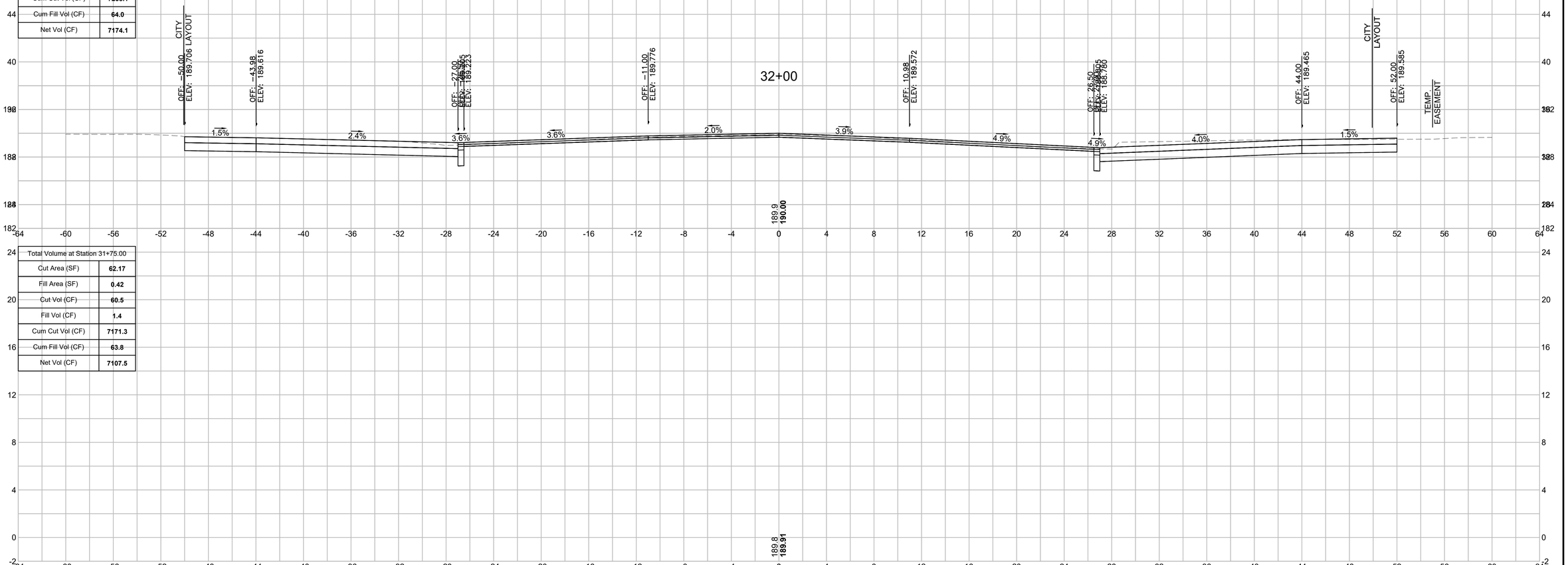
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	283	358
	PROJECT FILE NO.	608717	

CROSS SECTIONS - SUMNER AVENUE

Total Volume at Station 32+25.00	
Cut Area (SF)	38.74
Fill Area (SF)	3.44
Cut Vol (CF)	55.9
Fill Vol (CF)	1.6
Cum Cut Vol (CF)	7294.1
Cum Fill Vol (CF)	65.6
Net Vol (CF)	7228.5



Total Volume at Station 32+00.00	
Cut Area (SF)	82.09
Fill Area (SF)	0.00
Cut Vol (CF)	66.8
Fill Vol (CF)	0.2
Cum Cut Vol (CF)	7238.1
Cum Fill Vol (CF)	64.0
Net Vol (CF)	7174.1



Total Volume at Station 31+75.00	
Cut Area (SF)	62.17
Fill Area (SF)	0.42
Cut Vol (CF)	60.5
Fill Vol (CF)	1.4
Cum Cut Vol (CF)	7171.3
Cum Fill Vol (CF)	63.8
Net Vol (CF)	7107.5

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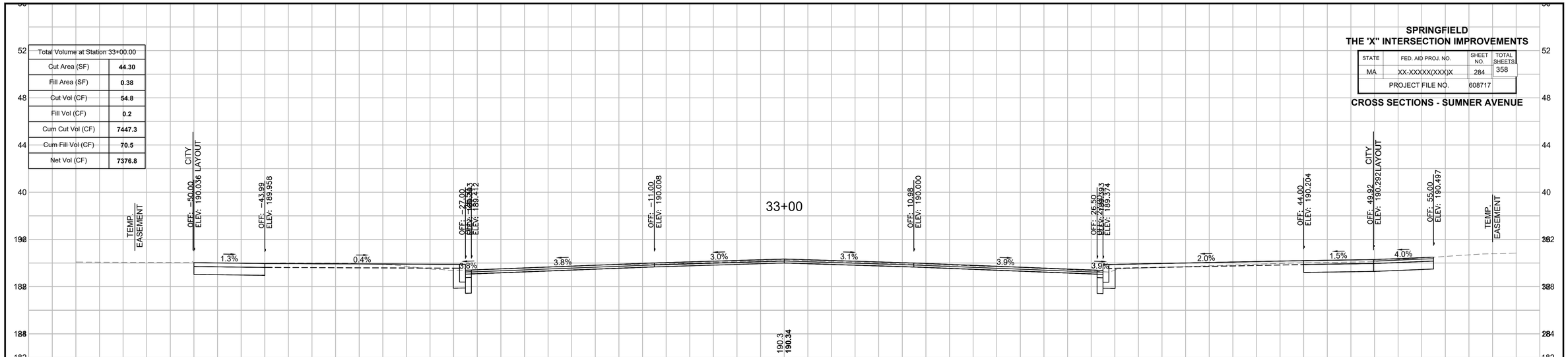
20121457A70_XSC01_SUMNER.DWG

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

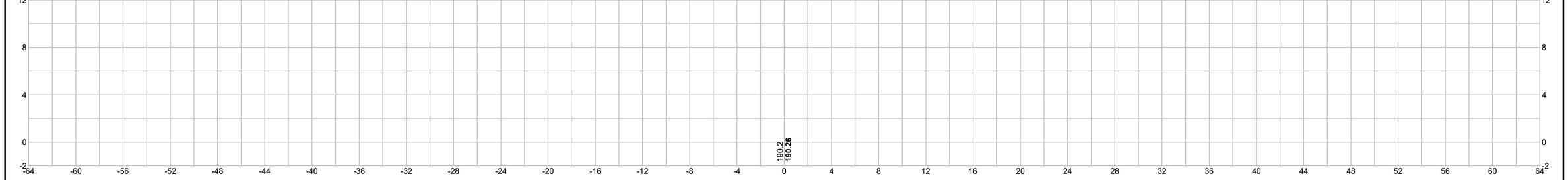
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	284	358
	PROJECT FILE NO.	608717	

CROSS SECTIONS - SUMNER AVENUE

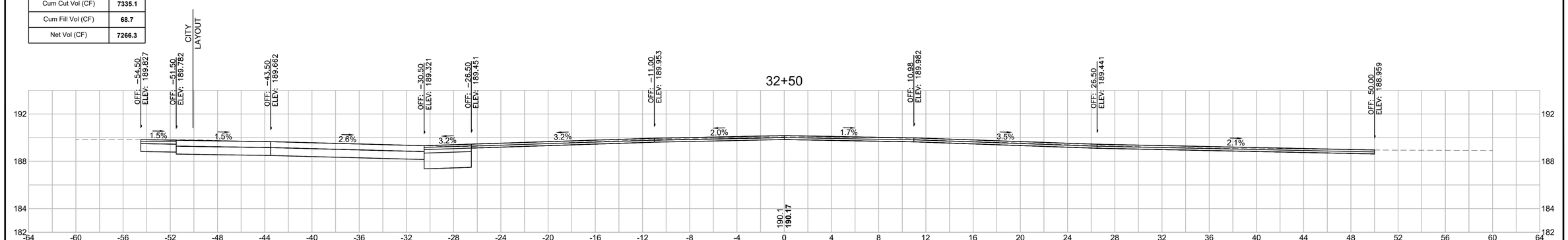
Total Volume at Station 33+00.00	
Cut Area (SF)	**44.30**
Fill Area (SF)	**0.38**
Cut Vol (CF)	**54.8**
Fill Vol (CF)	**0.2**
Cum Cut Vol (CF)	**7447.3**
Cum Fill Vol (CF)	**70.5**
Net Vol (CF)	**7376.8**



Total Volume at Station 32+75.00	
Cut Area (SF)	**74.11**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**57.4**
Fill Vol (CF)	**1.6**
Cum Cut Vol (CF)	**7392.5**
Cum Fill Vol (CF)	**70.3**
Net Vol (CF)	**7322.1**



Total Volume at Station 32+50.00	
Cut Area (SF)	**49.84**
Fill Area (SF)	**3.39**
Cut Vol (CF)	**41.0**
Fill Vol (CF)	**3.2**
Cum Cut Vol (CF)	**7335.1**
Cum Fill Vol (CF)	**68.7**
Net Vol (CF)	**7266.3**

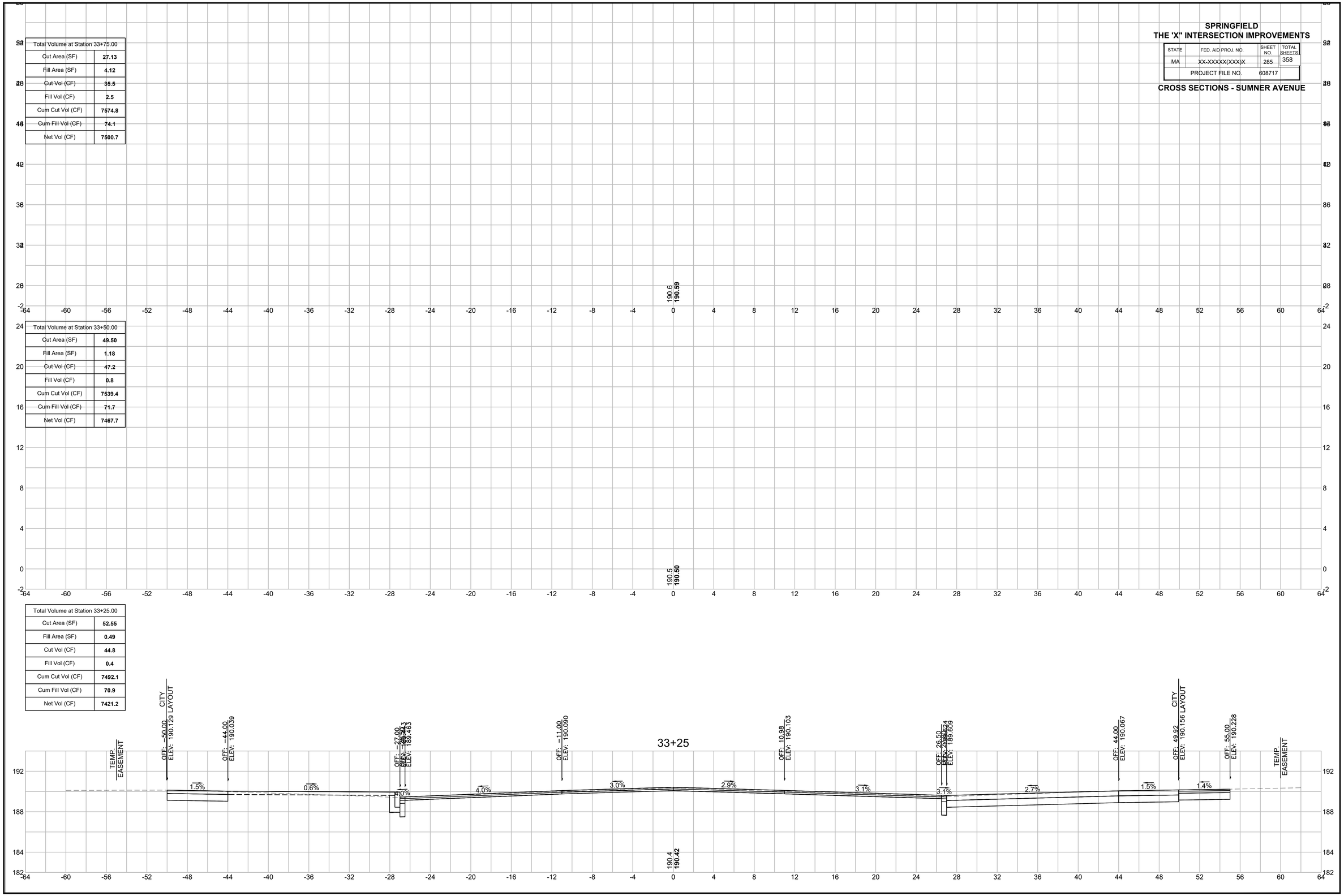


20121457A70_XSC01_SUMNER.DWG Plotted on 5-May-2023 2:41 PM

Total Volume at Station 33+75.00	
Cut Area (SF)	27.13
Fill Area (SF)	4.12
Cut Vol (CF)	35.5
Fill Vol (CF)	2.5
Cum Cut Vol (CF)	7574.8
Cum Fill Vol (CF)	74.1
Net Vol (CF)	7500.7

Total Volume at Station 33+50.00	
Cut Area (SF)	49.50
Fill Area (SF)	1.18
Cut Vol (CF)	47.2
Fill Vol (CF)	0.8
Cum Cut Vol (CF)	7539.4
Cum Fill Vol (CF)	71.7
Net Vol (CF)	7467.7

Total Volume at Station 33+25.00	
Cut Area (SF)	52.55
Fill Area (SF)	0.49
Cut Vol (CF)	44.8
Fill Vol (CF)	0.4
Cum Cut Vol (CF)	7492.1
Cum Fill Vol (CF)	70.9
Net Vol (CF)	7421.2



SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	285	358
	PROJECT FILE NO. 608717		

CROSS SECTIONS - SUMNER AVENUE

Plotted on 5-May-2023 2:41 PM
20121457A70_XSC01_SUMNER.DWG

Total Volume at Station 34+50.00	
Cut Area (SF)	**62.95**
Fill Area (SF)	**0.23**
Cut Vol (CF)	**59.2**
Fill Vol (CF)	**0.1**
Cum Cut Vol (CF)	**7701.6**
Cum Fill Vol (CF)	**84.6**
Net Vol (CF)	**7617.0**

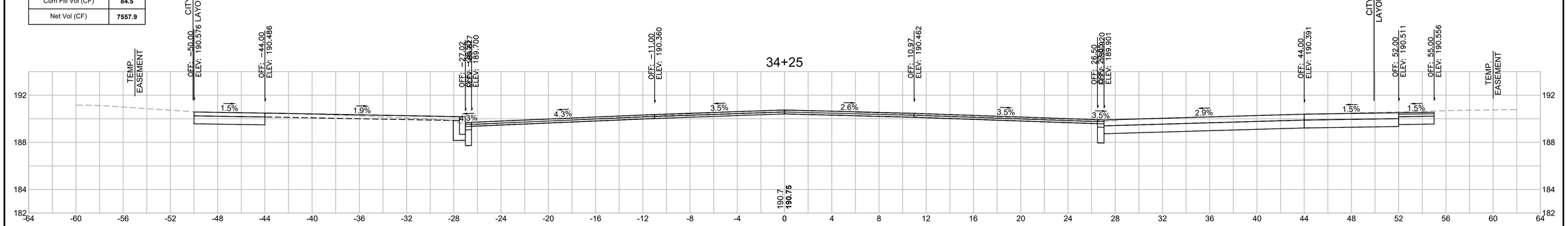
Total Volume at Station 34+25.00	
Cut Area (SF)	**64.91**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**42.5**
Fill Vol (CF)	**4.2**
Cum Cut Vol (CF)	**7642.4**
Cum Fill Vol (CF)	**84.5**
Net Vol (CF)	**7557.9**

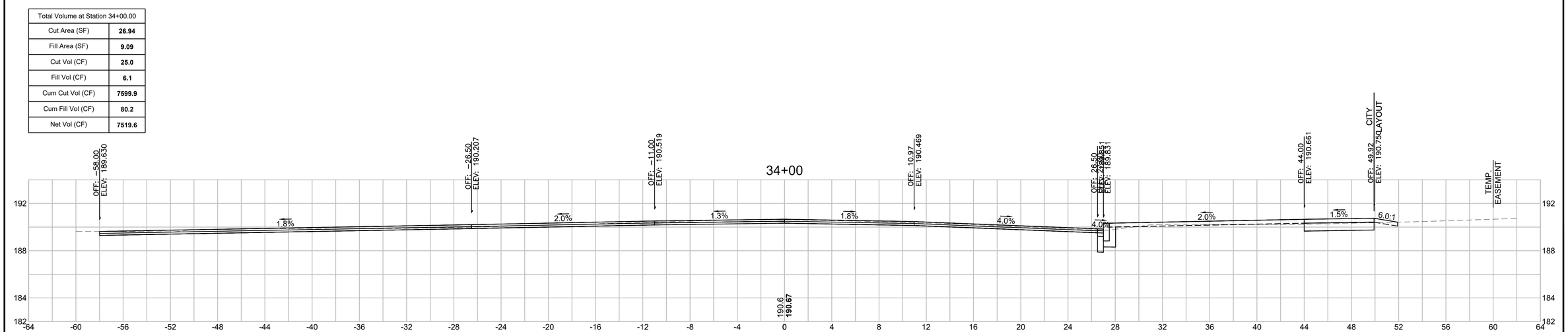
Total Volume at Station 34+00.00	
Cut Area (SF)	**26.94**
Fill Area (SF)	**9.09**
Cut Vol (CF)	**25.0**
Fill Vol (CF)	**6.1**
Cum Cut Vol (CF)	**7599.9**
Cum Fill Vol (CF)	**80.2**
Net Vol (CF)	**7519.6**

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	286	358
	PROJECT FILE NO. 608717		

CROSS SECTIONS - SUMNER AVENUE



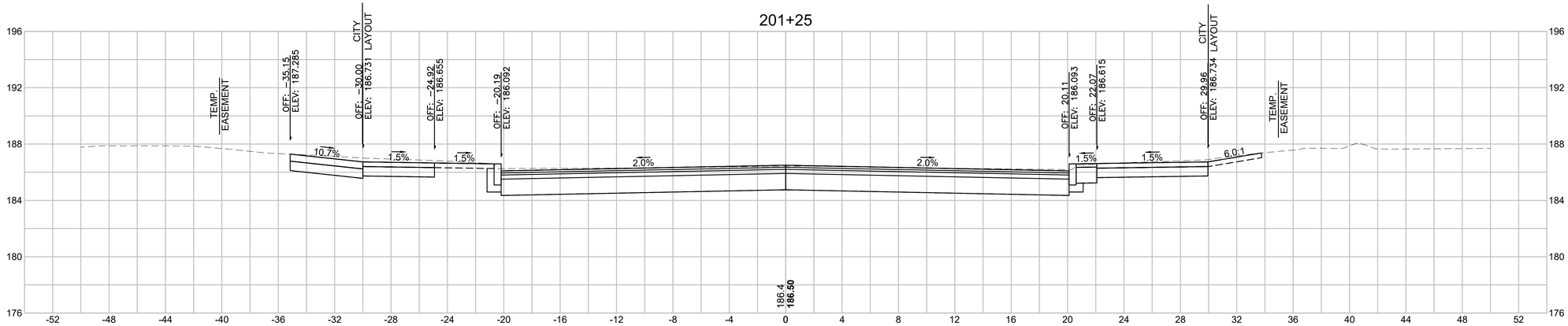


20121457A70_XSC01_SUMNER.DWG Plotted on 5-May-2023 2:41 PM

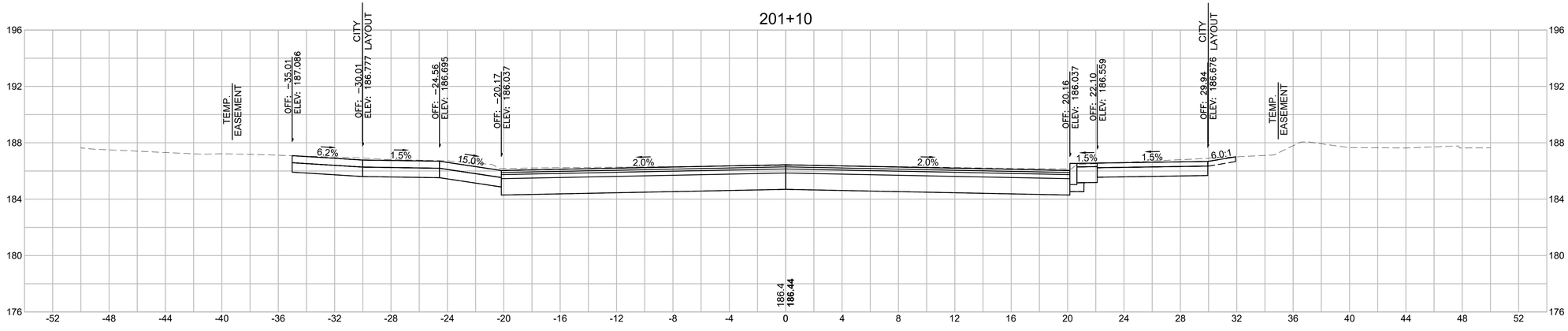
SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	287	358
PROJECT FILE NO.	608717		

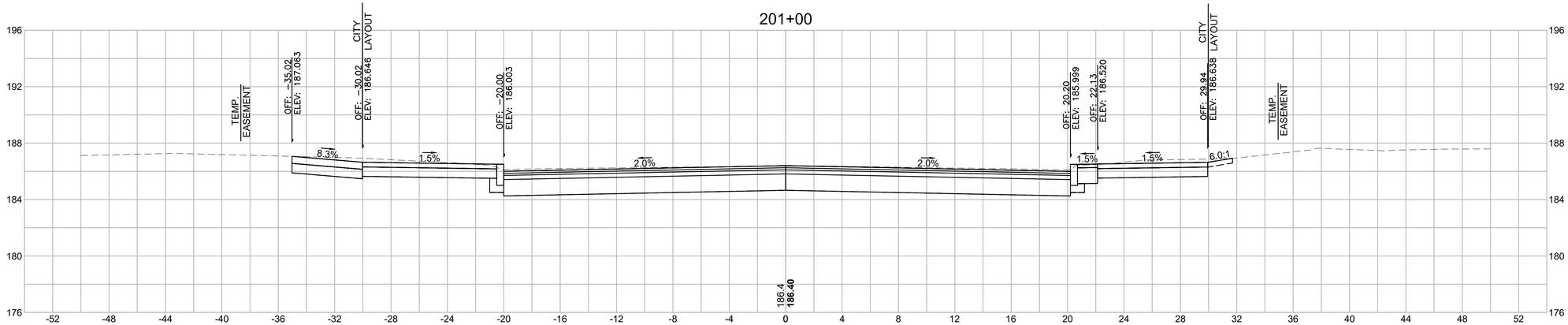
CROSS SECTIONS - BELMONT AVENUE



Total Volume at Station 201+25.00	
Cut Area (SF)	**125.41**
Fill Area (SF)	**0.00**
Cut Vol (CY)	**68.6**
Fill Vol (CY)	**0.0**
Cum Cut Vol (CY)	**113.1**
Cum Fill Vol (CY)	**0.0**
Net Vol (CY)	**113.1**



Total Volume at Station 201+10.00	
Cut Area (SF)	**121.54**
Fill Area (SF)	**0.00**
Cut Vol (CY)	**44.5**
Fill Vol (CY)	**0.0**
Cum Cut Vol (CY)	**44.5**
Cum Fill Vol (CY)	**0.0**
Net Vol (CY)	**44.5**



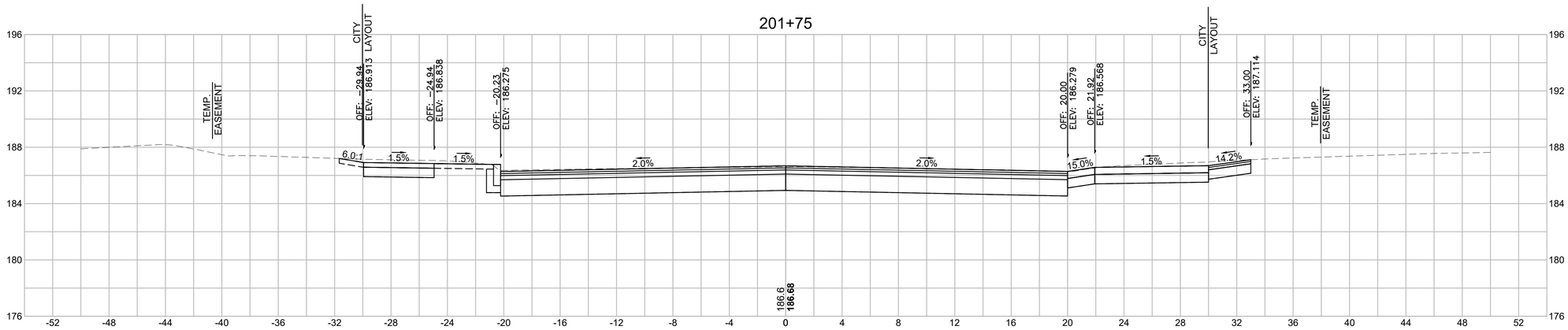
Total Volume at Station 201+00.00	
Cut Area (SF)	**118.97**
Fill Area (SF)	**0.00**
Cut Vol (CY)	**0.0**
Fill Vol (CY)	**0.0**
Cum Cut Vol (CY)	**0.0**
Cum Fill Vol (CY)	**0.0**
Net Vol (CY)	**0.0**

20121457A70_XSC01_BELMONT.DWG Plotted on 5-May-2023 2:43 PM

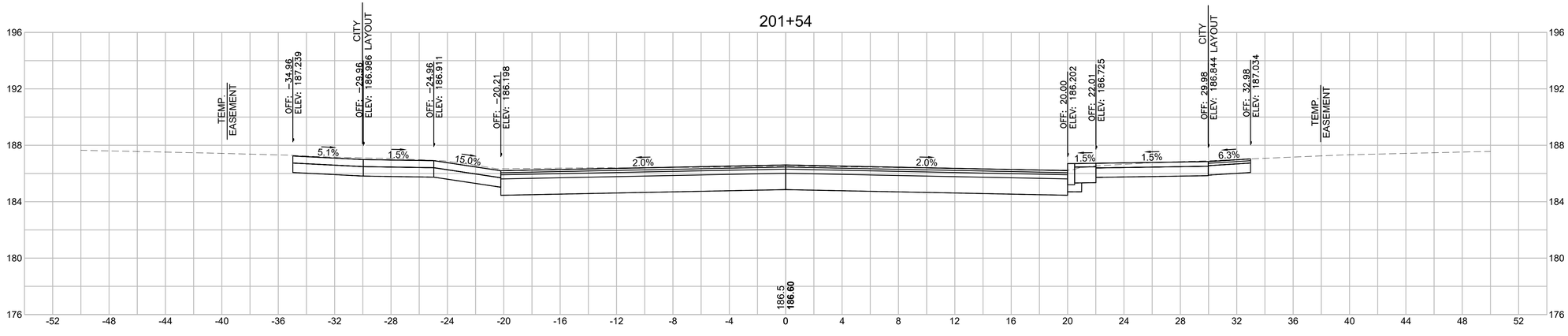
SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	288	358
PROJECT FILE NO.	608717		

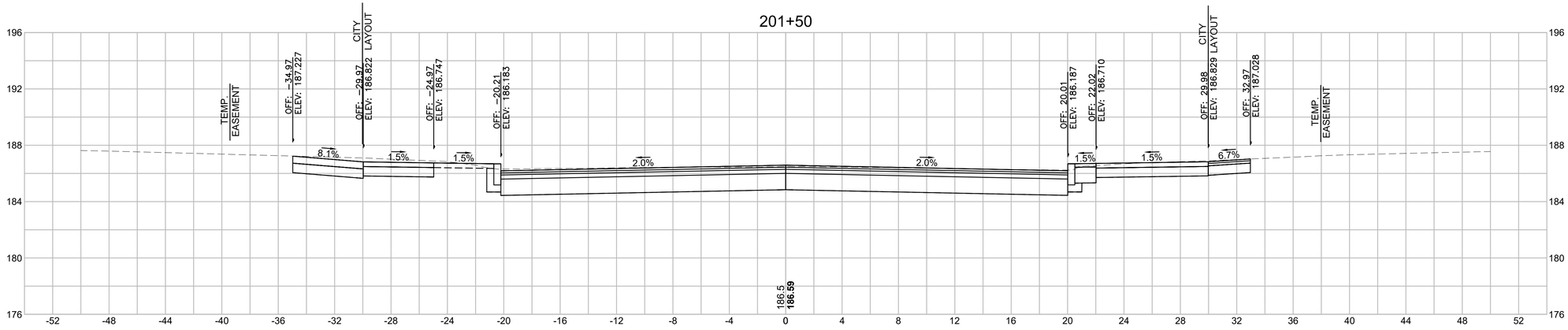
CROSS SECTIONS - BELMONT AVENUE



Total Volume at Station 201+75.00	
Cut Area (SF)	**124.62**
Fill Area (SF)	**0.00**
Cut Vol (CY)	**96.2**
Fill Vol (CY)	**0.0**
Cum Cut Vol (CY)	**341.5**
Cum Fill Vol (CY)	**0.0**
Net Vol (CY)	**341.5**



Total Volume at Station 201+54.00	
Cut Area (SF)	**122.85**
Fill Area (SF)	**0.00**
Cut Vol (CY)	**18.0**
Fill Vol (CY)	**0.0**
Cum Cut Vol (CY)	**245.2**
Cum Fill Vol (CY)	**0.0**
Net Vol (CY)	**245.2**



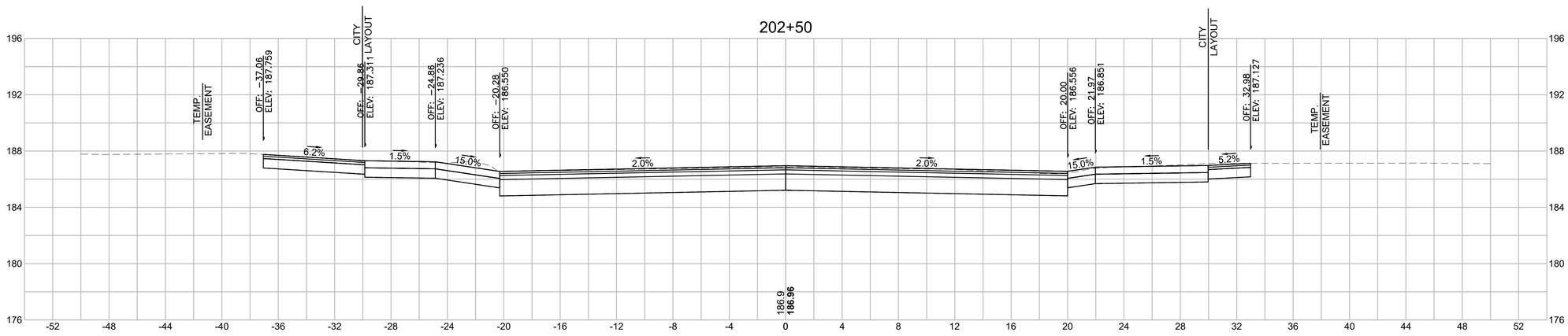
Total Volume at Station 201+50.00	
Cut Area (SF)	**120.90**
Fill Area (SF)	**0.00**
Cut Vol (CY)	**114.0**
Fill Vol (CY)	**0.0**
Cum Cut Vol (CY)	**227.2**
Cum Fill Vol (CY)	**0.0**
Net Vol (CY)	**227.2**

20121457A70_XSC01_BELMONT.DWG Plotted on 5-May-2023 2:43 PM

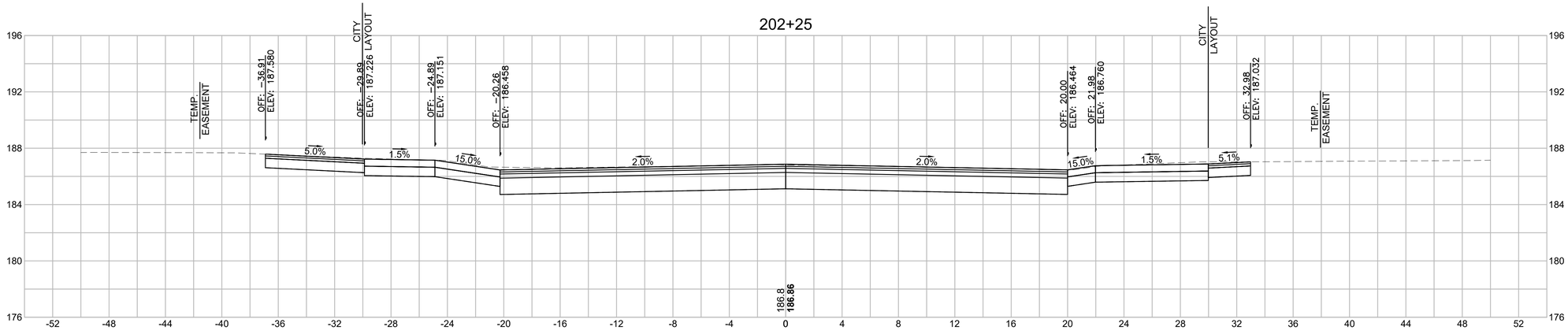
SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	289	358
	PROJECT FILE NO. 608717		

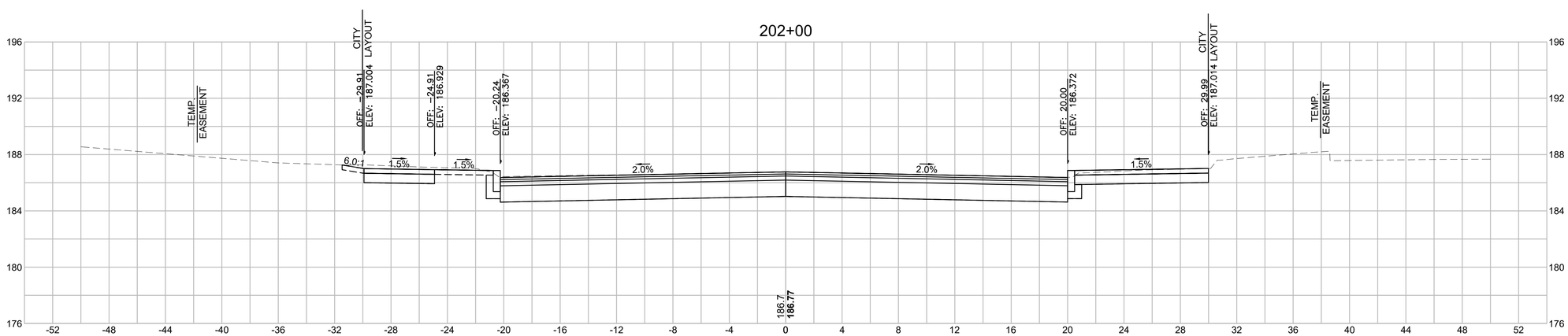
CROSS SECTIONS - BELMONT AVENUE



Total Volume at Station 202+50.00	
Cut Area (SF)	**114.53**
Fill Area (SF)	**0.00**
Cut Vol (CY)	**108.1**
Fill Vol (CY)	**0.0**
Cum Cut Vol (CY)	**673.5**
Cum Fill Vol (CY)	**0.0**
Net Vol (CY)	**673.5**



Total Volume at Station 202+25.00	
Cut Area (SF)	**118.91**
Fill Area (SF)	**0.00**
Cut Vol (CY)	**110.7**
Fill Vol (CY)	**0.0**
Cum Cut Vol (CY)	**565.4**
Cum Fill Vol (CY)	**0.0**
Net Vol (CY)	**565.4**



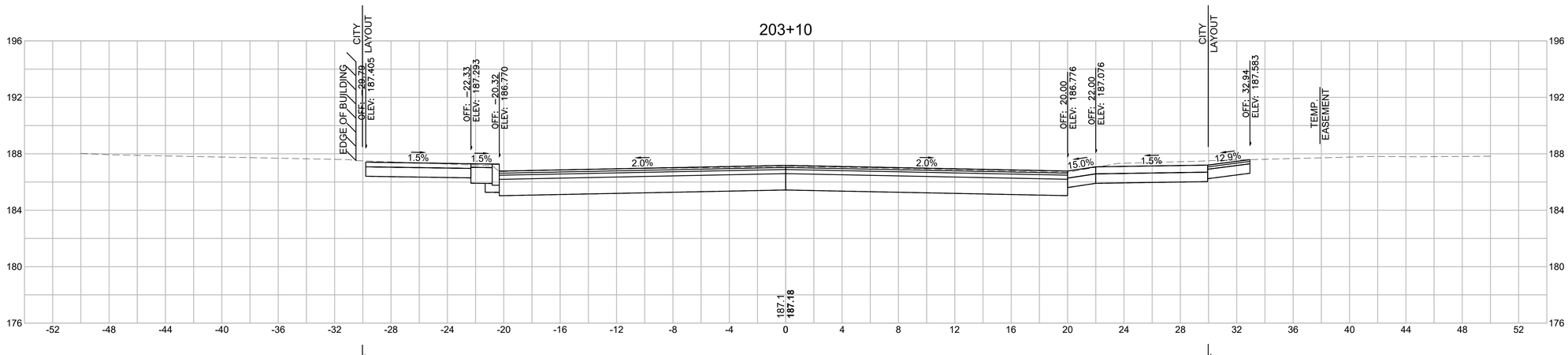
Total Volume at Station 202+00.00	
Cut Area (SF)	**120.12**
Fill Area (SF)	**0.02**
Cut Vol (CY)	**113.3**
Fill Vol (CY)	**0.0**
Cum Cut Vol (CY)	**454.8**
Cum Fill Vol (CY)	**0.0**
Net Vol (CY)	**454.8**

20121457A70_XSC01_BELMONT.DWG Plotted on 5-May-2023 2:44 PM

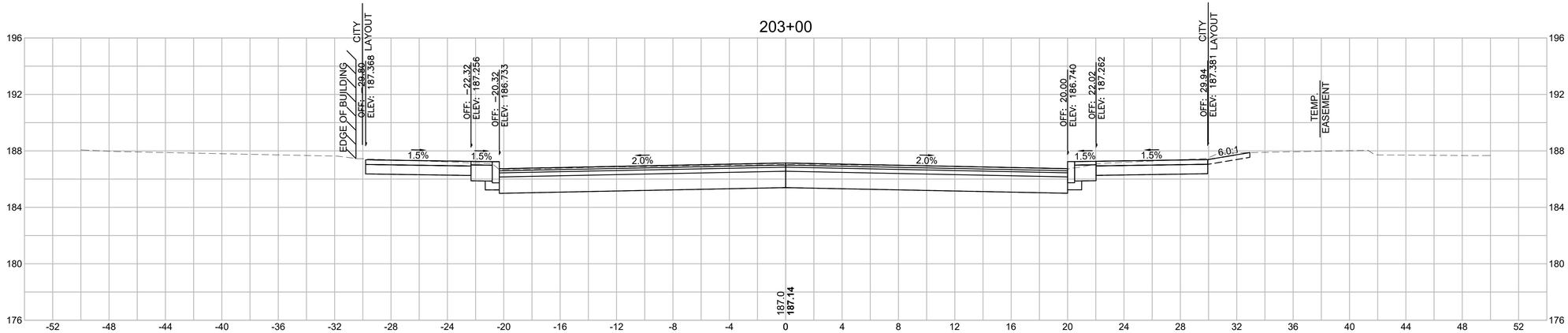
SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	290	358
	PROJECT FILE NO. 608717		

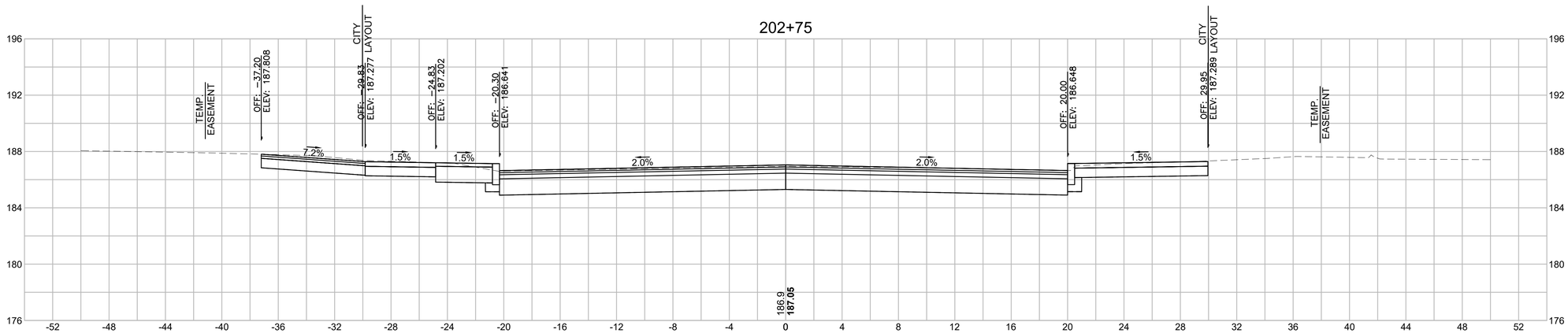
CROSS SECTIONS - BELMONT AVENUE



Total Volume at Station 203+10.00	
Cut Area (SF)	**111.01**
Fill Area (SF)	**0.00**
Cut Vol (CY)	**40.8**
Fill Vol (CY)	**0.0**
Cum Cut Vol (CY)	**923.9**
Cum Fill Vol (CY)	**0.0**
Net Vol (CY)	**923.9**



Total Volume at Station 203+00.00	
Cut Area (SF)	**109.41**
Fill Area (SF)	**0.00**
Cut Vol (CY)	**103.6**
Fill Vol (CY)	**0.0**
Cum Cut Vol (CY)	**883.1**
Cum Fill Vol (CY)	**0.0**
Net Vol (CY)	**883.1**



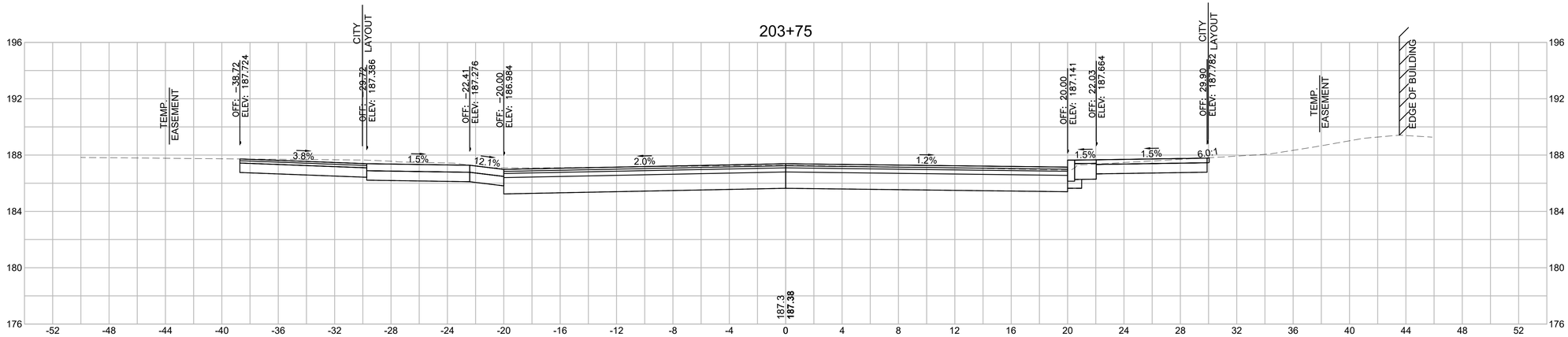
Total Volume at Station 202+75.00	
Cut Area (SF)	**114.38**
Fill Area (SF)	**0.00**
Cut Vol (CY)	**106.0**
Fill Vol (CY)	**0.0**
Cum Cut Vol (CY)	**779.5**
Cum Fill Vol (CY)	**0.0**
Net Vol (CY)	**779.5**

20121457A70_XSC01_BELMONT.DWG Plotted on 5-May-2023 2:44 PM

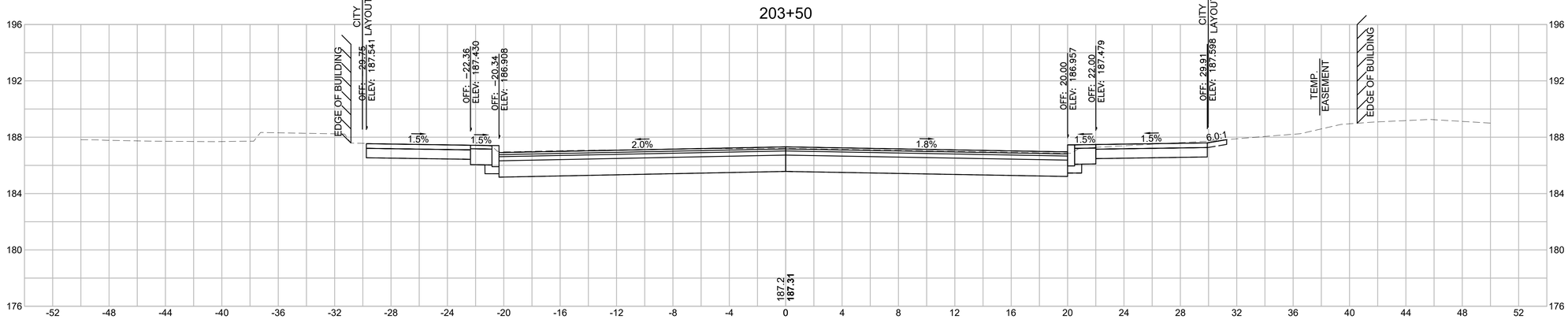
SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	291	358
	PROJECT FILE NO. 608717		

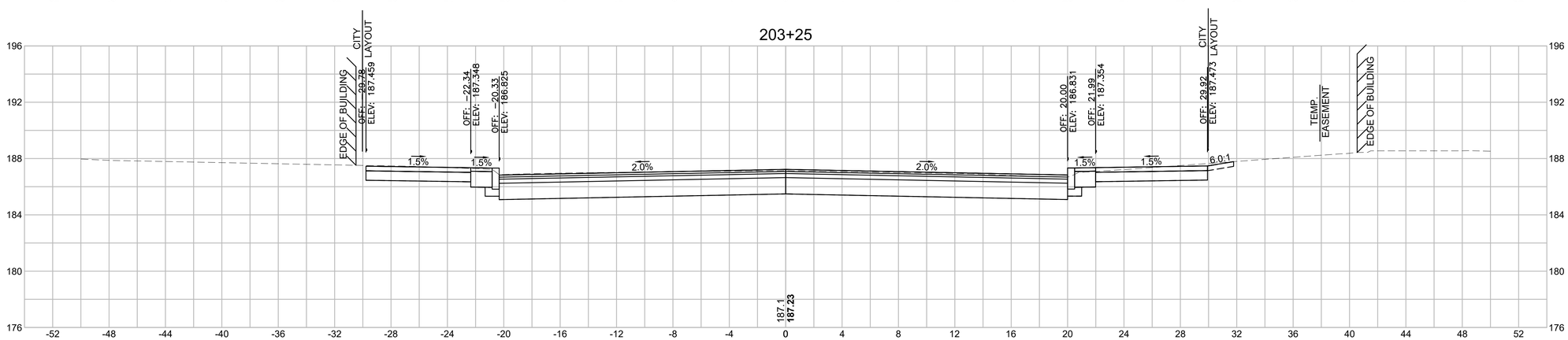
CROSS SECTIONS - BELMONT AVENUE



Total Volume at Station 203+75.00	
Cut Area (SF)	**109.25**
Fill Area (SF)	**0.00**
Cut Vol (CY)	**95.6**
Fill Vol (CY)	**0.9**
Cum Cut Vol (CY)	**1169.4**
Cum Fill Vol (CY)	**1.9**
Net Vol (CY)	**1167.5**



Total Volume at Station 203+50.00	
Cut Area (SF)	**97.32**
Fill Area (SF)	**2.00**
Cut Vol (CY)	**91.3**
Fill Vol (CY)	**0.9**
Cum Cut Vol (CY)	**1073.8**
Cum Fill Vol (CY)	**0.9**
Net Vol (CY)	**1072.8**



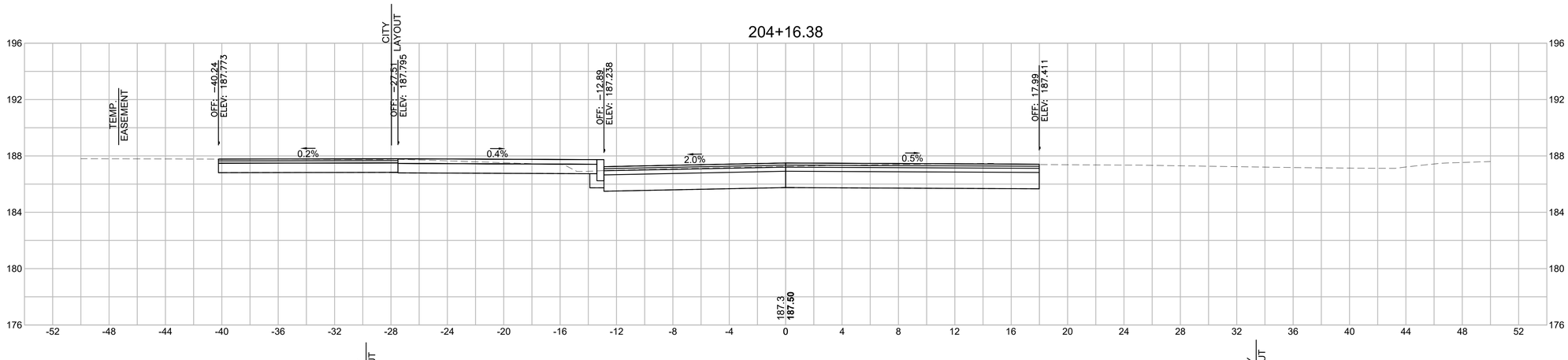
Total Volume at Station 203+25.00	
Cut Area (SF)	**99.90**
Fill Area (SF)	**0.00**
Cut Vol (CY)	**58.6**
Fill Vol (CY)	**0.0**
Cum Cut Vol (CY)	**982.5**
Cum Fill Vol (CY)	**0.0**
Net Vol (CY)	**982.5**

20121457A70_XSC01_BELMONT.DWG Plotted on 5-May-2023 2:44 PM

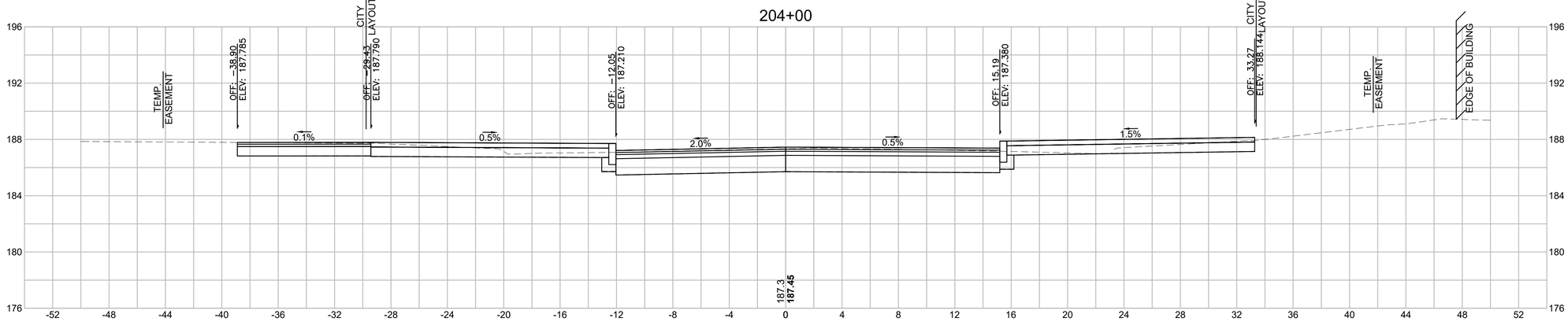
SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	292	358
	PROJECT FILE NO. 608717		

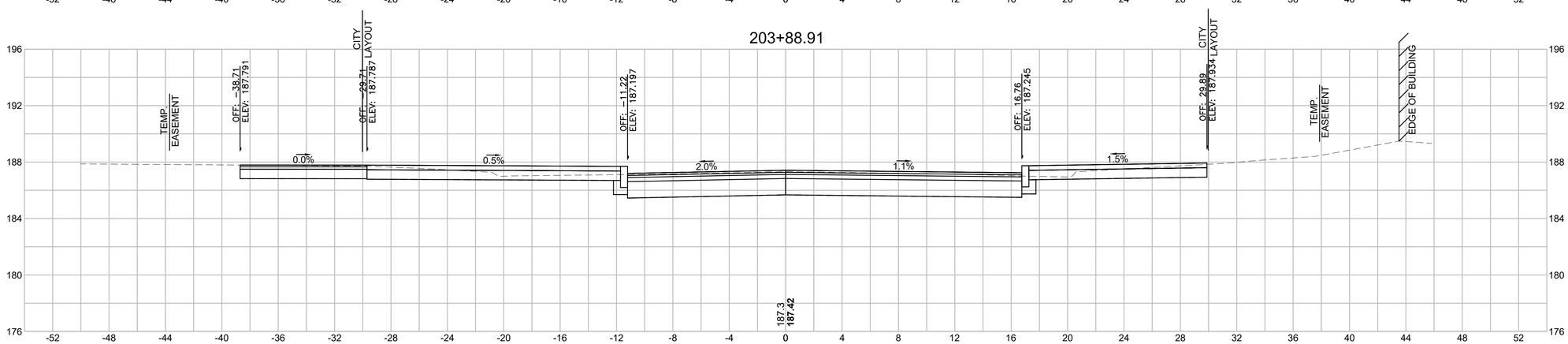
CROSS SECTIONS - BELMONT AVENUE



Total Volume at Station 204+16.38	
Cut Area (SF)	**103.88**
Fill Area (SF)	**0.15**
Cut Vol (CY)	**47.3**
Fill Vol (CY)	**0.1**
Cum Cut Vol (CY)	**1294.2**
Cum Fill Vol (CY)	**2.0**
Net Vol (CY)	**1292.2**



Total Volume at Station 204+00.00	
Cut Area (SF)	**82.36**
Fill Area (SF)	**0.01**
Cut Vol (CY)	**26.3**
Fill Vol (CY)	**0.0**
Cum Cut Vol (CY)	**1246.9**
Cum Fill Vol (CY)	**1.9**
Net Vol (CY)	**1245.0**



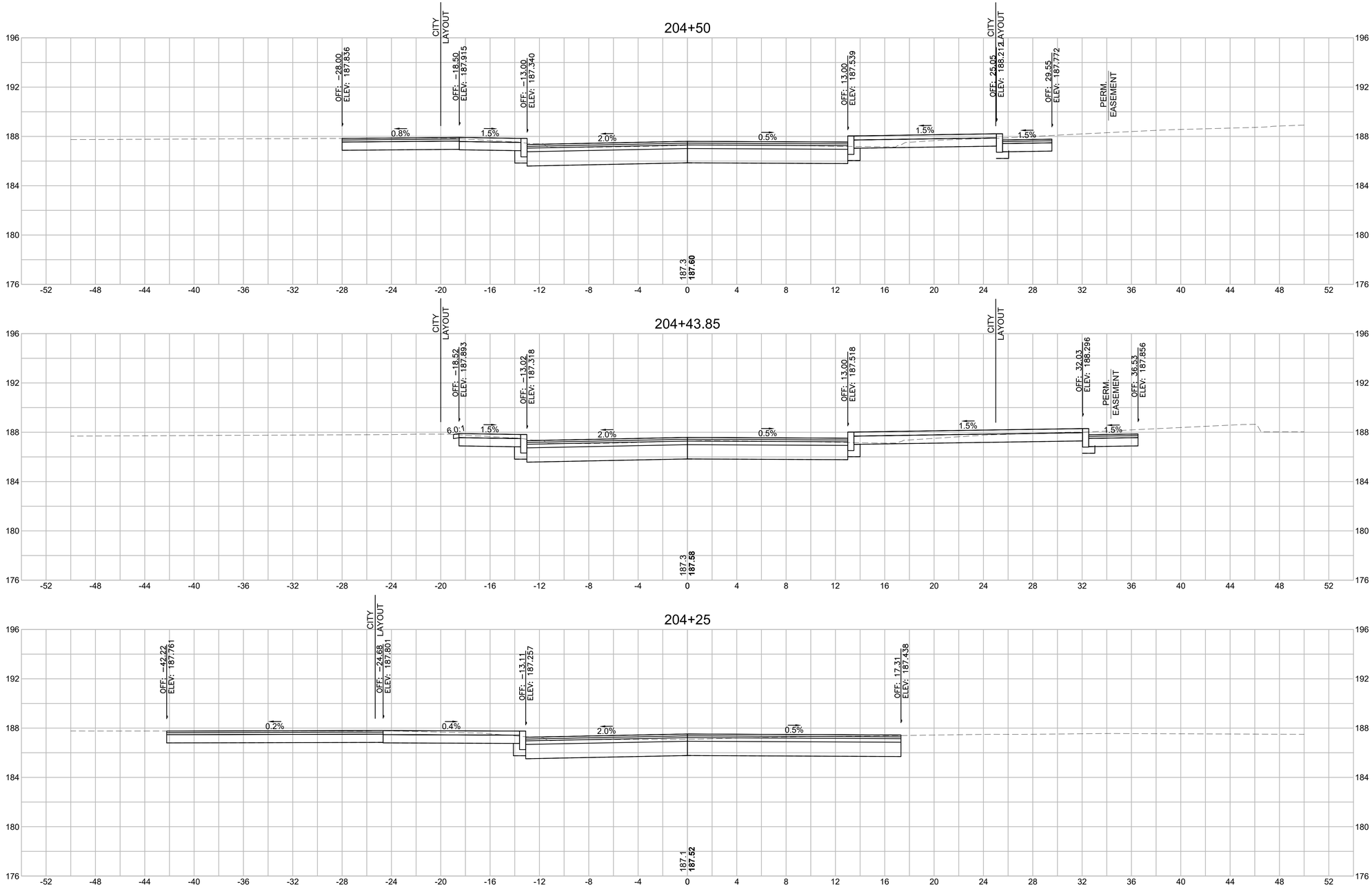
Total Volume at Station 203+88.91	
Cut Area (SF)	**89.44**
Fill Area (SF)	**0.00**
Cut Vol (CY)	**51.2**
Fill Vol (CY)	**0.0**
Cum Cut Vol (CY)	**1220.6**
Cum Fill Vol (CY)	**1.9**
Net Vol (CY)	**1218.7**

20121457A70_XSC01_BELMONT.DWG Plotted on 5-May-2023 2:44 PM

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	293	358
	PROJECT FILE NO. 608717		

CROSS SECTIONS - BELMONT AVENUE



Total Volume at Station 204+50.00	
Cut Area (SF)	**108.37**
Fill Area (SF)	**0.00**
Cut Vol (CY)	**24.0**
Fill Vol (CY)	**0.0**
Cum Cut Vol (CY)	**1417.9**
Cum Fill Vol (CY)	**2.0**
Net Vol (CY)	**1415.8**

Total Volume at Station 204+43.85	
Cut Area (SF)	**102.25**
Fill Area (SF)	**0.00**
Cut Vol (CY)	**69.1**
Fill Vol (CY)	**0.0**
Cum Cut Vol (CY)	**1393.9**
Cum Fill Vol (CY)	**2.0**
Net Vol (CY)	**1391.9**

Total Volume at Station 204+25.00	
Cut Area (SF)	**105.21**
Fill Area (SF)	**0.00**
Cut Vol (CY)	**30.6**
Fill Vol (CY)	**0.1**
Cum Cut Vol (CY)	**1324.8**
Cum Fill Vol (CY)	**2.0**
Net Vol (CY)	**1322.7**

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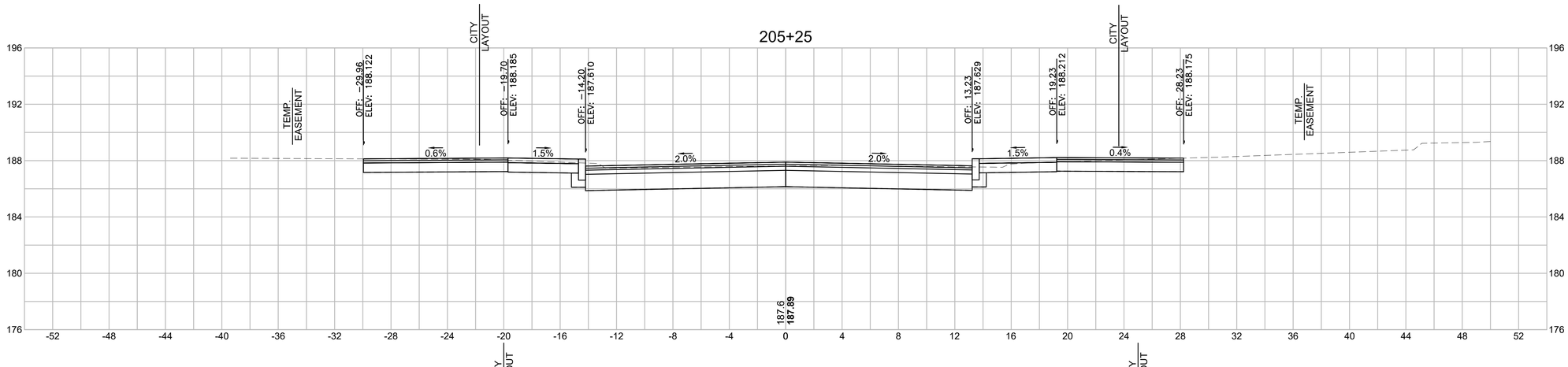
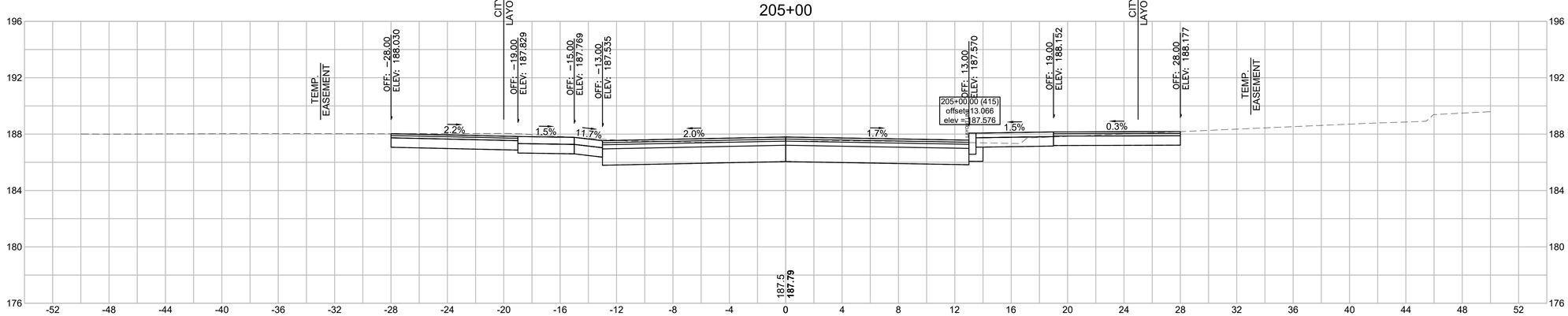
SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	294	358
	PROJECT FILE NO. 608717		

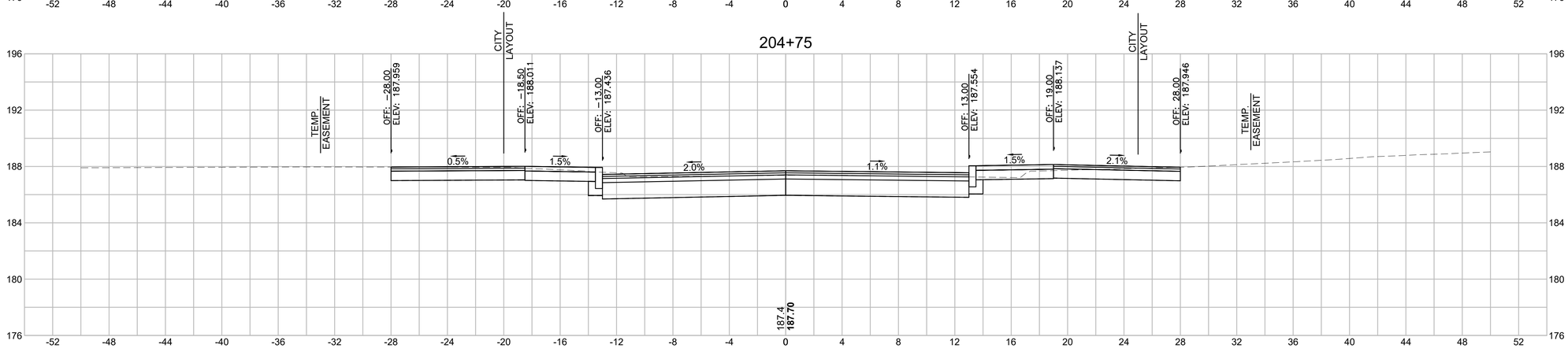
CROSS SECTIONS - BELMONT AVENUE



Total Volume at Station 205+25.00	
Cut Area (SF)	**104.04**
Fill Area (SF)	**0.00**
Cut Vol (CY)	**98.3**
Fill Vol (CY)	**0.0**
Cum Cut Vol (CY)	**1711.9**
Cum Fill Vol (CY)	**2.0**
Net Vol (CY)	**1709.9**



Total Volume at Station 205+00.00	
Cut Area (SF)	**114.58**
Fill Area (SF)	**0.00**
Cut Vol (CY)	**99.3**
Fill Vol (CY)	**0.0**
Cum Cut Vol (CY)	**1613.6**
Cum Fill Vol (CY)	**2.0**
Net Vol (CY)	**1611.5**



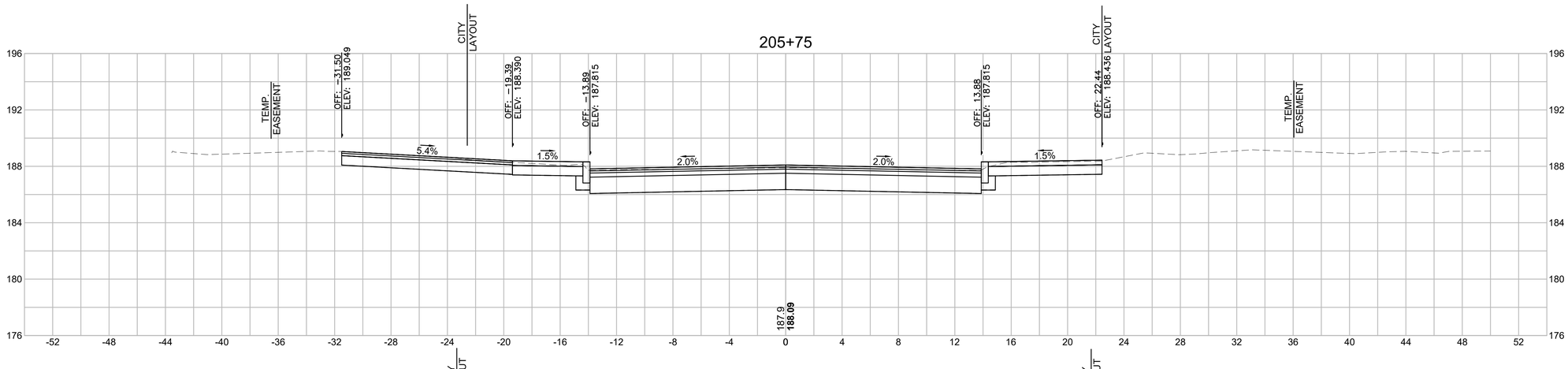
Total Volume at Station 204+75.00	
Cut Area (SF)	**99.89**
Fill Area (SF)	**0.00**
Cut Vol (CY)	**96.4**
Fill Vol (CY)	**0.0**
Cum Cut Vol (CY)	**1514.3**
Cum Fill Vol (CY)	**2.0**
Net Vol (CY)	**1512.3**

20121457A70_XSC01_BELMONT.DWG Plotted on 5-May-2023 2:44 PM

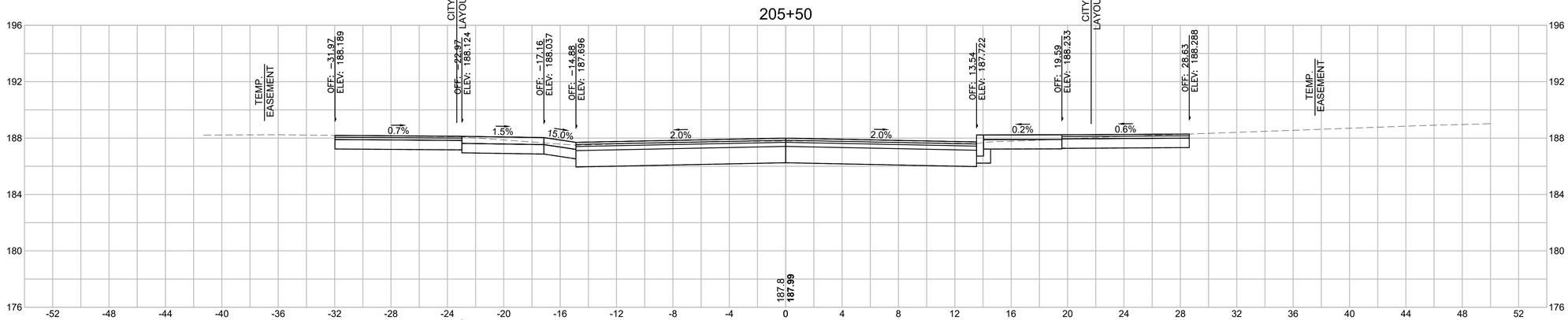
SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	295	358
	PROJECT FILE NO. 608717		

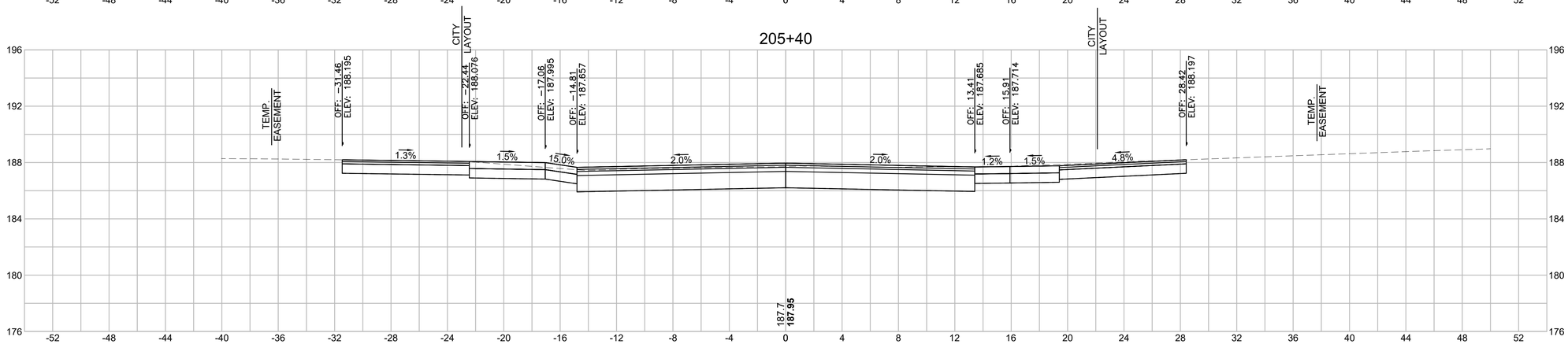
CROSS SECTIONS - BELMONT AVENUE



Total Volume at Station 205+75.00	
Cut Area (SF)	**106.43**
Fill Area (SF)	**0.00**
Cut Vol (CY)	**92.2**
Fill Vol (CY)	**0.0**
Cum Cut Vol (CY)	**1898.8**
Cum Fill Vol (CY)	**2.0**
Net Vol (CY)	**1896.8**



Total Volume at Station 205+50.00	
Cut Area (SF)	**106.66**
Fill Area (SF)	**0.00**
Cut Vol (CY)	**38.3**
Fill Vol (CY)	**0.0**
Cum Cut Vol (CY)	**1806.7**
Cum Fill Vol (CY)	**2.0**
Net Vol (CY)	**1804.6**



Total Volume at Station 205+40.00	
Cut Area (SF)	**109.30**
Fill Area (SF)	**0.00**
Cut Vol (CY)	**56.4**
Fill Vol (CY)	**0.0**
Cum Cut Vol (CY)	**1768.3**
Cum Fill Vol (CY)	**2.0**
Net Vol (CY)	**1766.3**

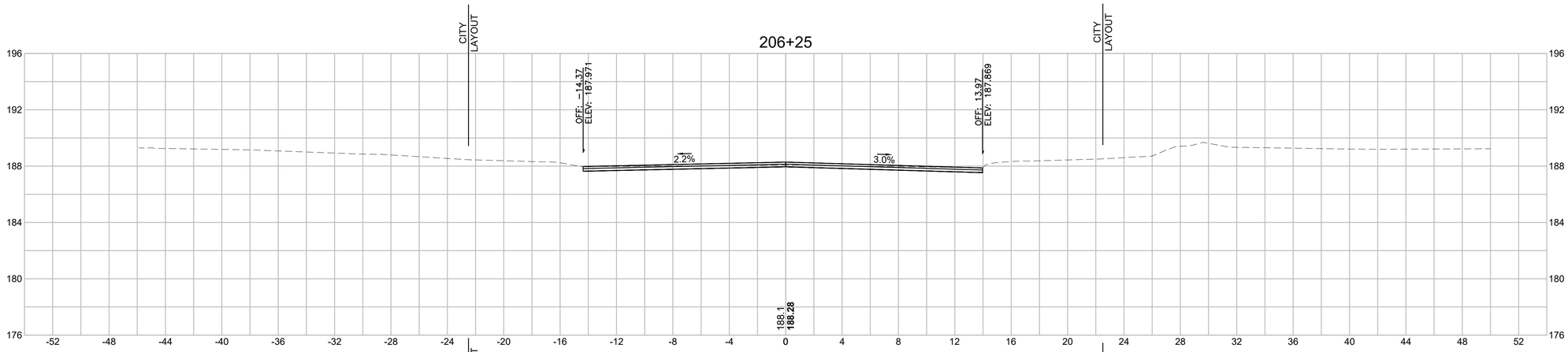
20121457A70_XSC01_BELMONT.DWG Plotted on 5-May-2023 2:45 PM

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

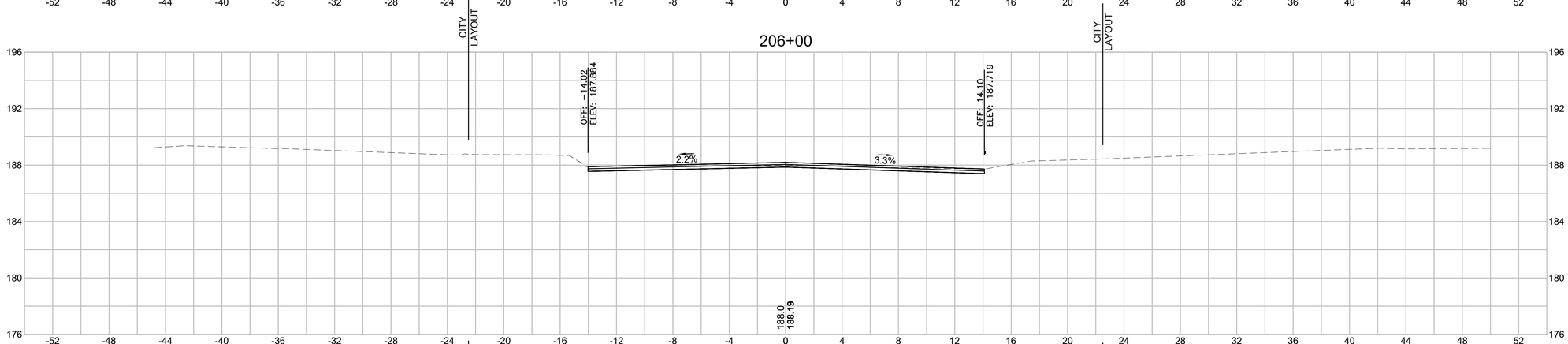
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	296	358
	PROJECT FILE NO. 608717		

CROSS SECTIONS - BELMONT AVENUE

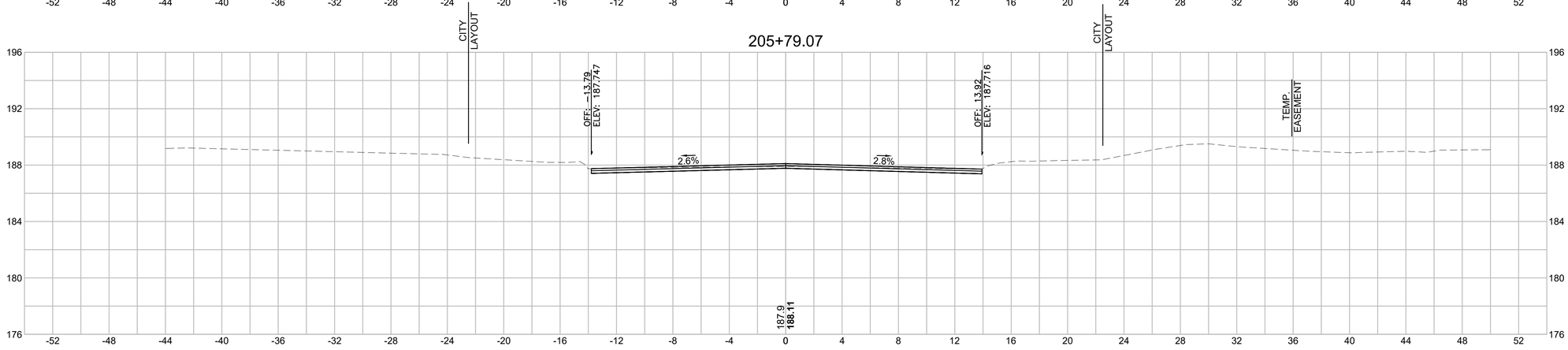
20121457A70_XSC01_BELMONT.DWG Plotted on 5-May-2023 2:45 PM



Total Volume at Station 206+25.00	
Cut Area (SF)	**57.82**
Fill Area (SF)	**0.00**
Cut Vol (CY)	**54.0**
Fill Vol (CY)	**0.0**
Cum Cut Vol (CY)	**2012.1**
Cum Fill Vol (CY)	**2.0**
Net Vol (CY)	**2010.1**



Total Volume at Station 206+00.00	
Cut Area (SF)	**58.86**
Fill Area (SF)	**0.00**
Cut Vol (CY)	**48.0**
Fill Vol (CY)	**0.0**
Cum Cut Vol (CY)	**1958.1**
Cum Fill Vol (CY)	**2.0**
Net Vol (CY)	**1956.1**

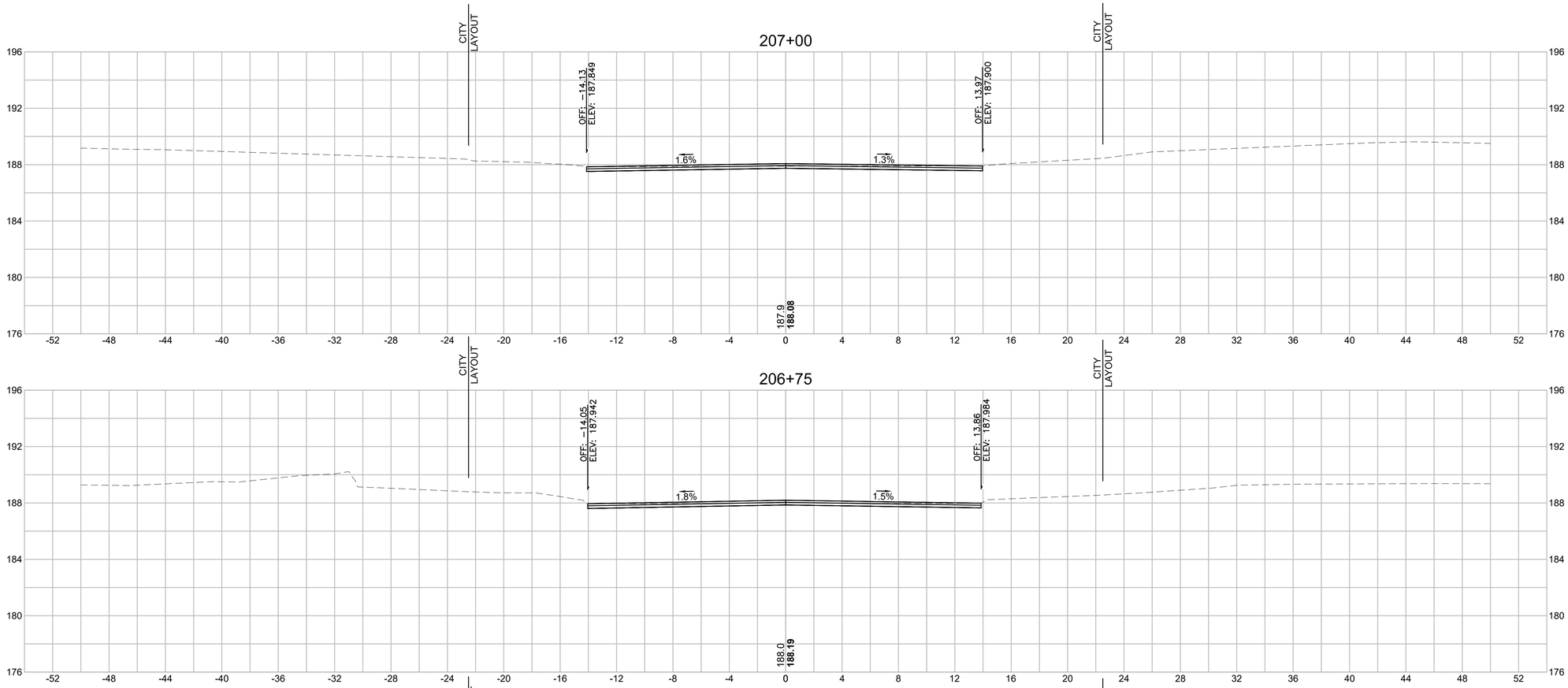


Total Volume at Station 205+79.07	
Cut Area (SF)	**64.91**
Fill Area (SF)	**0.00**
Cut Vol (CY)	**11.3**
Fill Vol (CY)	**0.0**
Cum Cut Vol (CY)	**1910.1**
Cum Fill Vol (CY)	**2.0**
Net Vol (CY)	**1908.1**

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	297	358
	PROJECT FILE NO. 608717		

CROSS SECTIONS - BELMONT AVENUE



Total Volume at Station 207+00.00	
Cut Area (SF)	**54.30**
Fill Area (SF)	**0.00**
Cut Vol (CY)	**48.7**
Fill Vol (CY)	**0.0**
Cum Cut Vol (CY)	**2157.4**
Cum Fill Vol (CY)	**2.0**
Net Vol (CY)	**2155.3**

Total Volume at Station 206+75.00	
Cut Area (SF)	**50.97**
Fill Area (SF)	**0.00**
Cut Vol (CY)	**46.7**
Fill Vol (CY)	**0.0**
Cum Cut Vol (CY)	**2108.6**
Cum Fill Vol (CY)	**2.0**
Net Vol (CY)	**2106.6**

Total Volume at Station 206+50.00	
Cut Area (SF)	**49.83**
Fill Area (SF)	**0.00**
Cut Vol (CY)	**49.8**
Fill Vol (CY)	**0.0**
Cum Cut Vol (CY)	**2062.0**
Cum Fill Vol (CY)	**2.0**
Net Vol (CY)	**2059.9**

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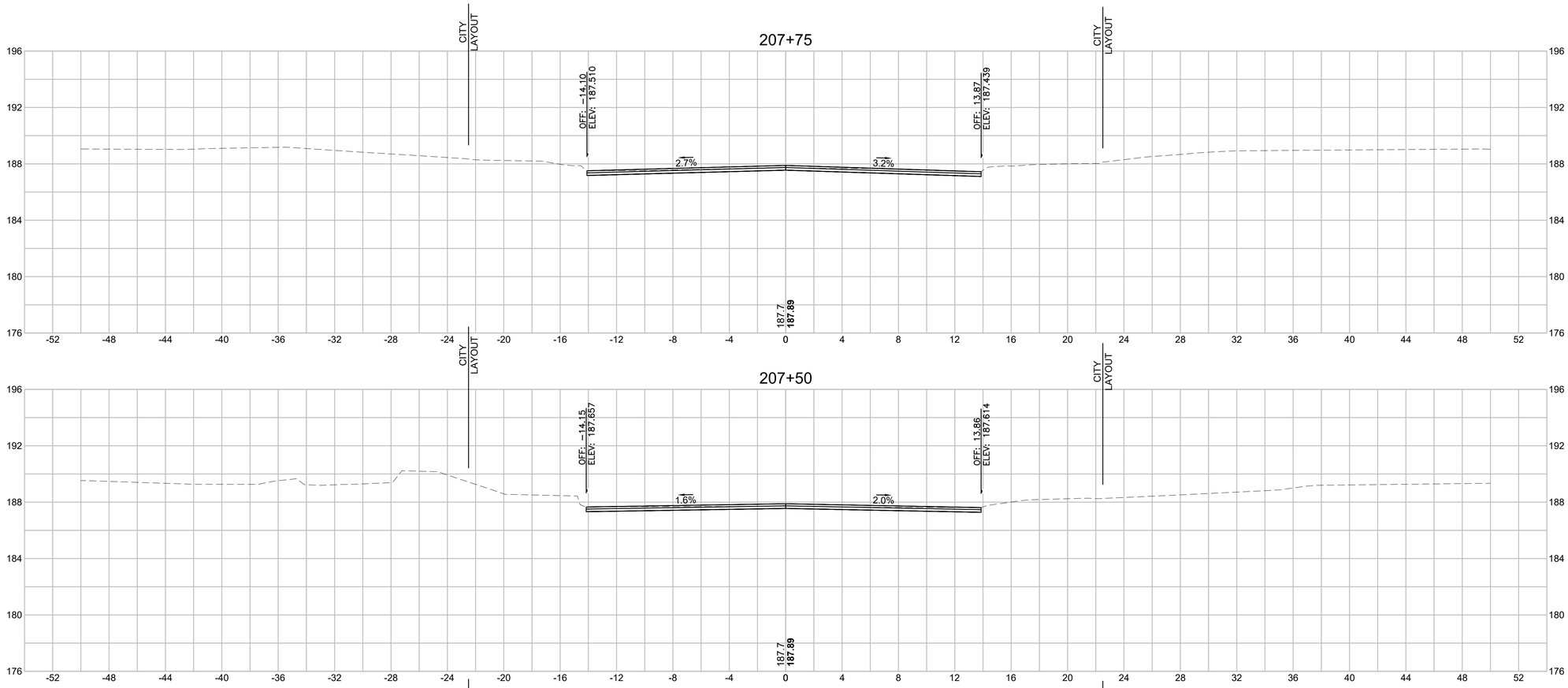
SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	298	358
	PROJECT FILE NO. 608717		

CROSS SECTIONS - BELMONT AVENUE



Total Volume at Station 207+75.00	
Cut Area (SF)	**54.48**
Fill Area (SF)	**0.00**
Cut Vol (CY)	**49.7**
Fill Vol (CY)	**0.0**
Cum Cut Vol (CY)	**2300.5**
Cum Fill Vol (CY)	**2.0**
Net Vol (CY)	**2298.5**

Total Volume at Station 207+50.00	
Cut Area (SF)	**52.79**
Fill Area (SF)	**0.00**
Cut Vol (CY)	**46.4**
Fill Vol (CY)	**0.0**
Cum Cut Vol (CY)	**2250.9**
Cum Fill Vol (CY)	**2.0**
Net Vol (CY)	**2248.9**

Total Volume at Station 207+25.00	
Cut Area (SF)	**47.47**
Fill Area (SF)	**0.00**
Cut Vol (CY)	**47.1**
Fill Vol (CY)	**0.0**
Cum Cut Vol (CY)	**2204.5**
Cum Fill Vol (CY)	**2.0**
Net Vol (CY)	**2202.4**

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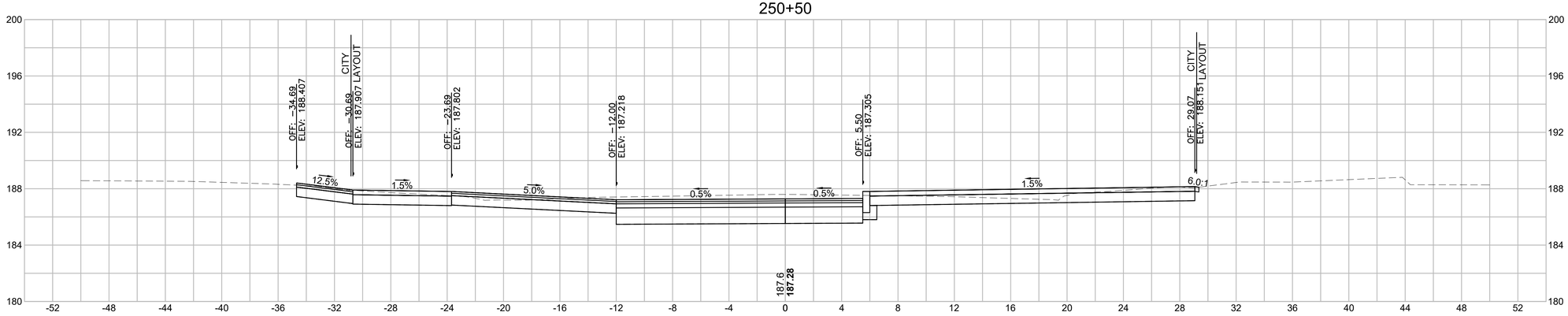
SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	299	358
	PROJECT FILE NO. 608717		

CROSS SECTIONS - BELMONT AVENUE

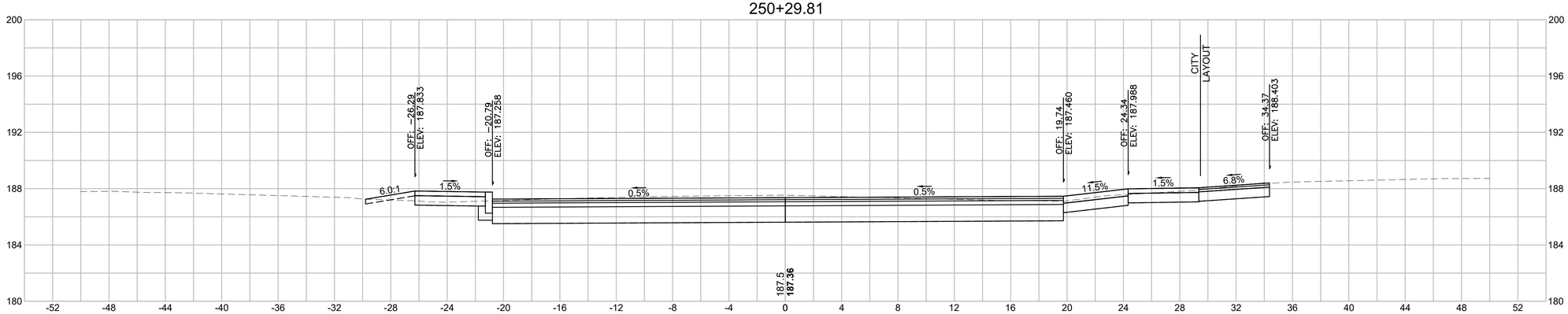
20121457A70_XSC01_BELMONT.DWG Plotted on 5-May-2023 2:45 PM

250+50



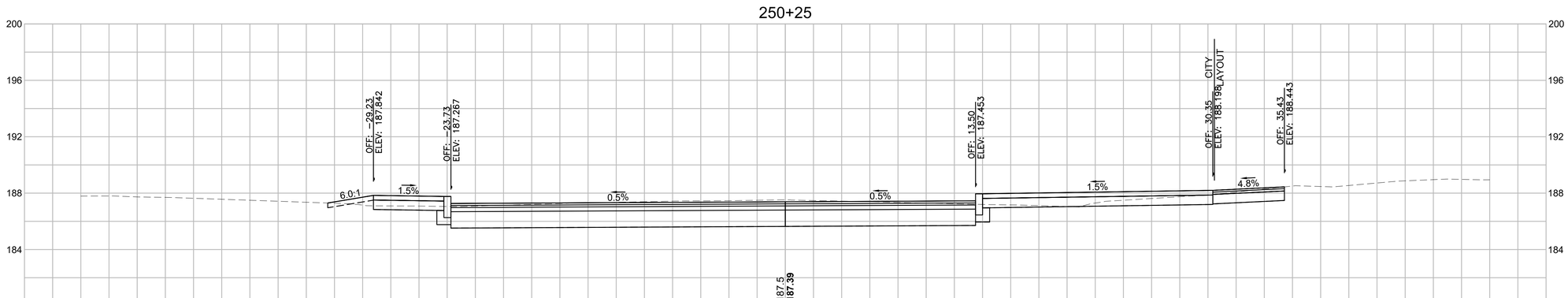
Total Volume at Station 250+50.00	
Cut Area (SF)	**74.75**
Fill Area (SF)	**0.00**
Cut Vol (CY)	**60.9**
Fill Vol (CY)	**0.1**
Cum Cut Vol (CY)	**75.8**
Cum Fill Vol (CY)	**0.1**
Net Vol (CY)	**75.7**

250+29.81



Total Volume at Station 250+29.81	
Cut Area (SF)	**88.77**
Fill Area (SF)	**0.32**
Cut Vol (CY)	**15.0**
Fill Vol (CY)	**0.0**
Cum Cut Vol (CY)	**15.0**
Cum Fill Vol (CY)	**0.0**
Net Vol (CY)	**14.9**

250+25



Total Volume at Station 250+25.00	
Cut Area (SF)	**82.18**
Fill Area (SF)	**0.32**
Cut Vol (CY)	**0.0**
Fill Vol (CY)	**0.0**
Cum Cut Vol (CY)	**0.0**
Cum Fill Vol (CY)	**0.0**
Net Vol (CY)	**0.0**

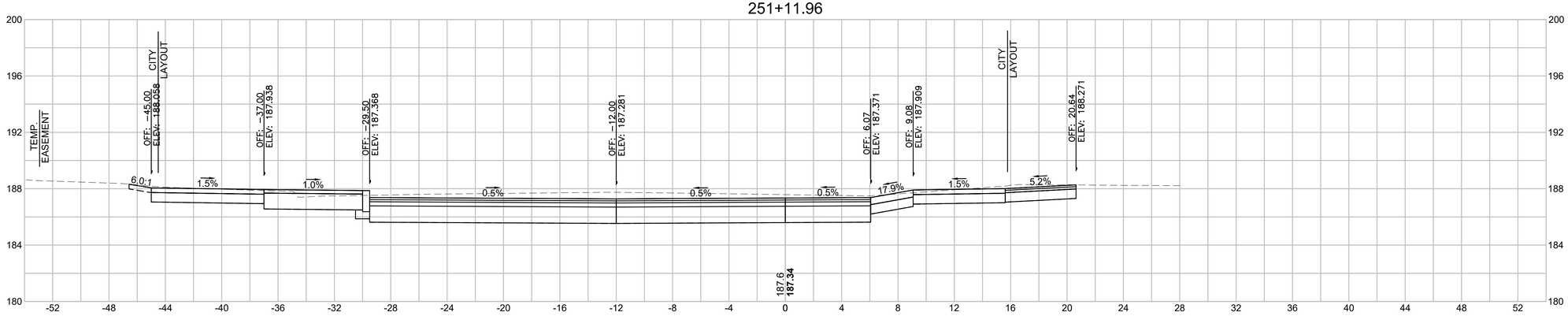
SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	300	358
	PROJECT FILE NO. 608717		

CROSS SECTIONS - BELMONT AVENUE

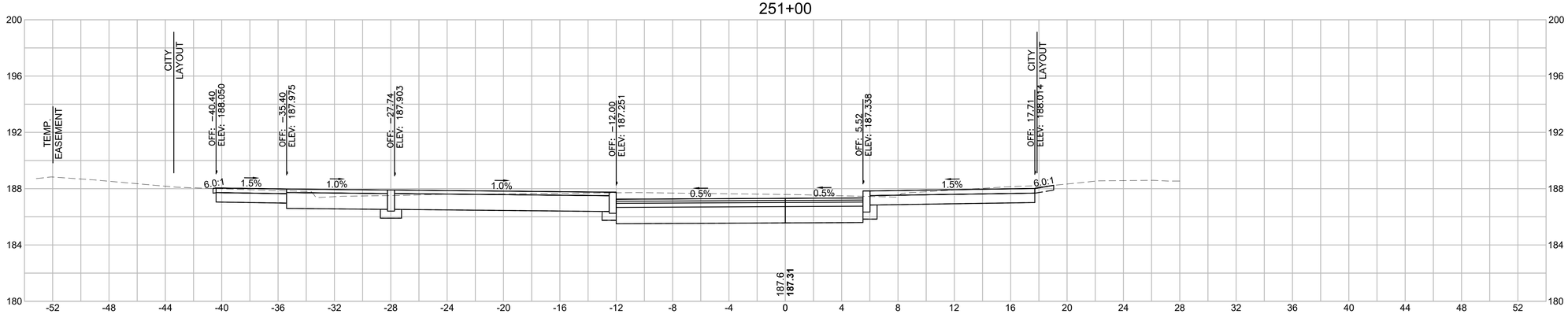
20121457A70_XSC01_BELMONT.DWG Plotted on 5-May-2023 2:45 PM

251+11.96



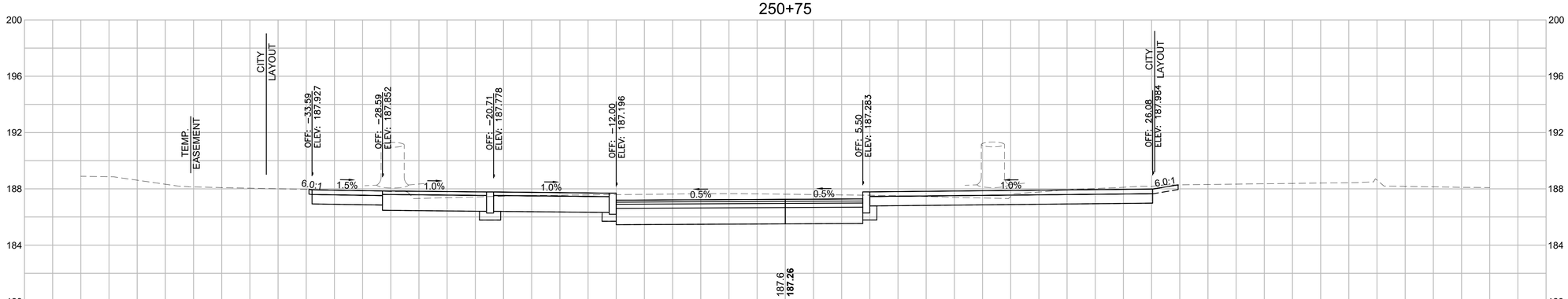
Total Volume at Station 251+11.96	
Cut Area (SF)	**106.30**
Fill Area (SF)	**0.00**
Cut Vol (CY)	**37.1**
Fill Vol (CY)	**0.0**
Cum Cut Vol (CY)	**263.5**
Cum Fill Vol (CY)	**0.1**
Net Vol (CY)	**263.4**

251+00



Total Volume at Station 251+00.00	
Cut Area (SF)	**79.58**
Fill Area (SF)	**0.00**
Cut Vol (CY)	**73.1**
Fill Vol (CY)	**0.0**
Cum Cut Vol (CY)	**226.3**
Cum Fill Vol (CY)	**0.1**
Net Vol (CY)	**226.2**

250+75



Total Volume at Station 250+75.00	
Cut Area (SF)	**83.53**
Fill Area (SF)	**0.00**
Cut Vol (CY)	**77.4**
Fill Vol (CY)	**0.0**
Cum Cut Vol (CY)	**153.2**
Cum Fill Vol (CY)	**0.1**
Net Vol (CY)	**153.1**

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	301	358
	PROJECT FILE NO. 608717		

CROSS SECTIONS - BELMONT AVENUE

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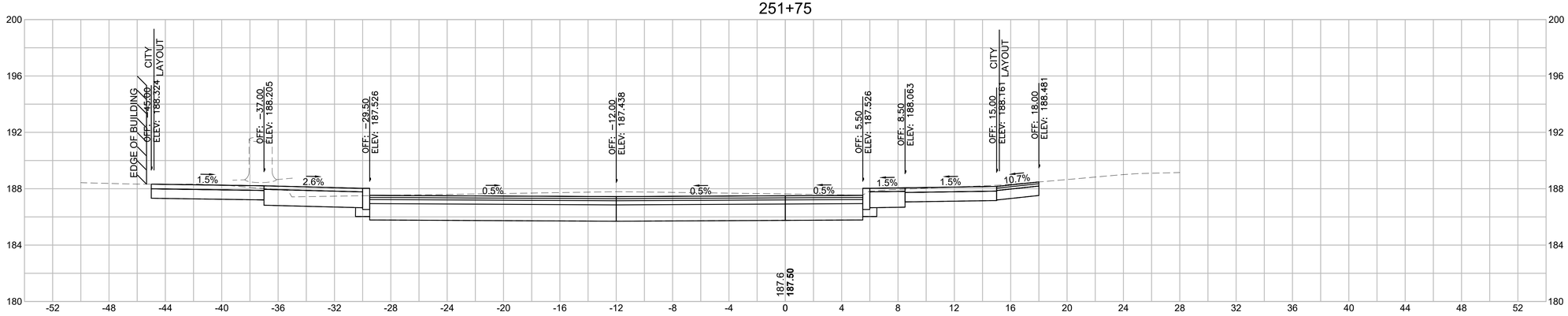
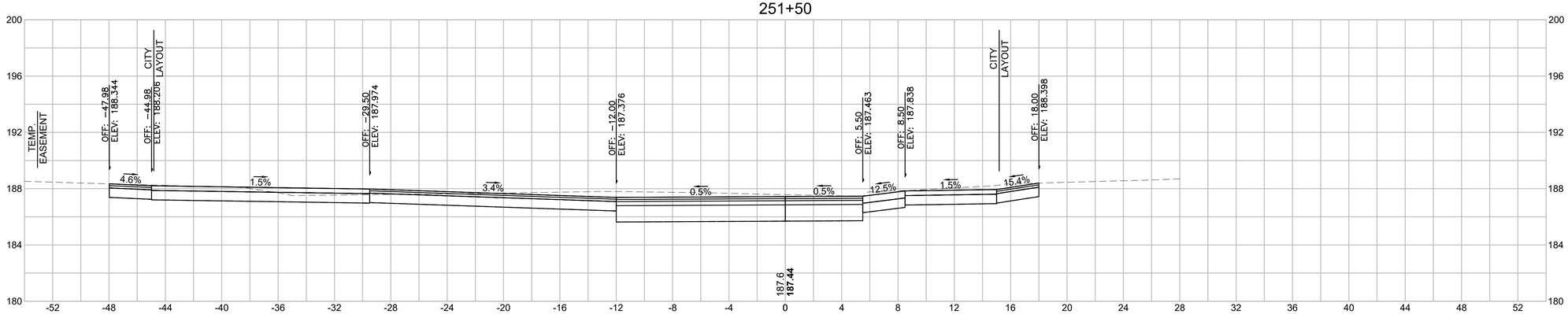
251+75



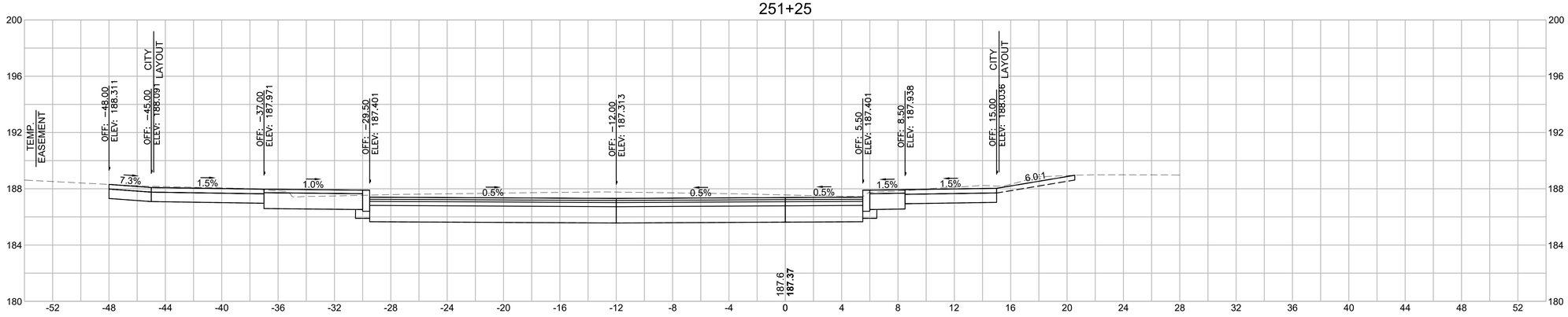
Total Volume at Station 251+75.00	
Cut Area (SF)	**110.09**
Fill Area (SF)	**0.00**
Cut Vol (CY)	**90.2**
Fill Vol (CY)	**0.0**
Cum Cut Vol (CY)	**480.0**
Cum Fill Vol (CY)	**0.1**
Net Vol (CY)	**479.9**

251+50



Total Volume at Station 251+50.00	
Cut Area (SF)	**84.64**
Fill Area (SF)	**0.00**
Cut Vol (CY)	**82.7**
Fill Vol (CY)	**0.0**
Cum Cut Vol (CY)	**389.9**
Cum Fill Vol (CY)	**0.1**
Net Vol (CY)	**389.7**

251+25



Total Volume at Station 251+25.00	
Cut Area (SF)	**94.00**
Fill Area (SF)	**0.00**
Cut Vol (CY)	**43.7**
Fill Vol (CY)	**0.0**
Cum Cut Vol (CY)	**307.2**
Cum Fill Vol (CY)	**0.1**
Net Vol (CY)	**307.0**

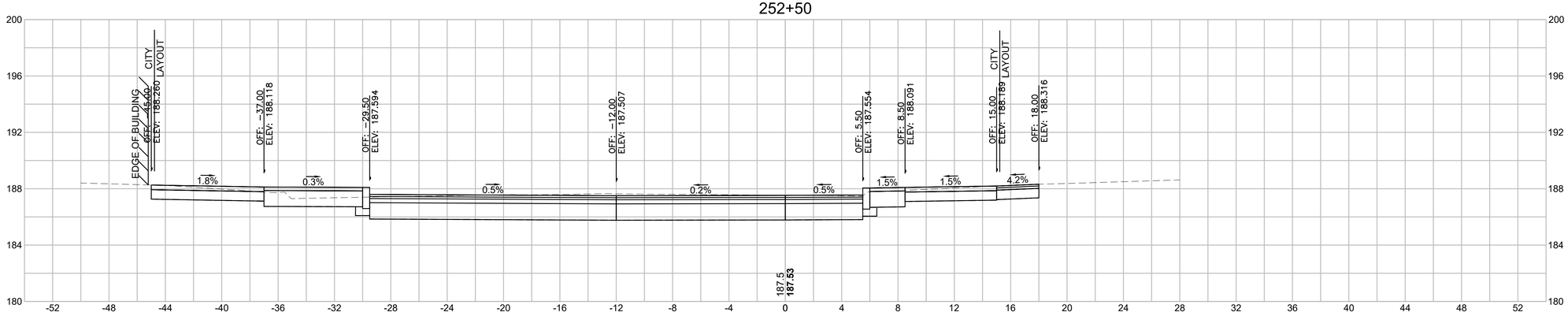
SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	302	358
	PROJECT FILE NO. 608717		

CROSS SECTIONS - BELMONT AVENUE

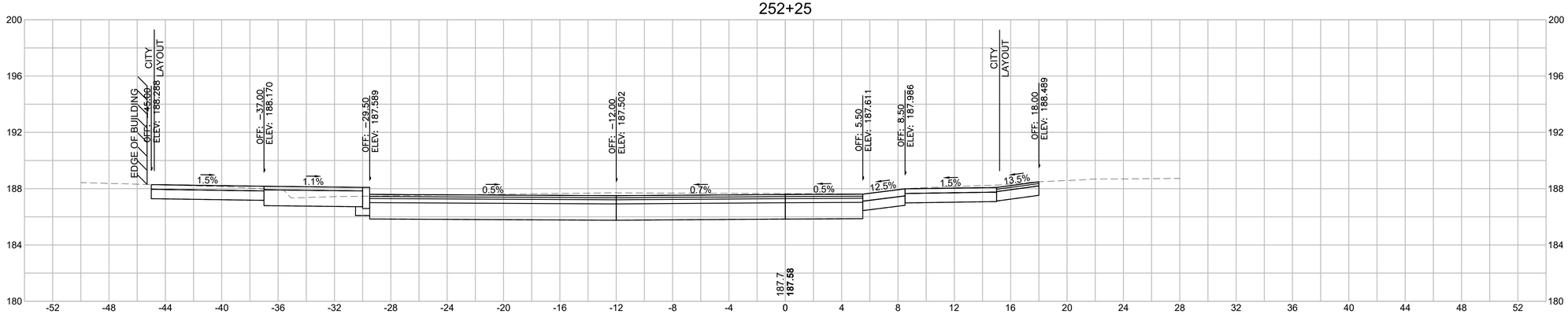
20121457A70_XSC01_BELMONT.DWG Plotted on 5-May-2023 2:46 PM

252+50



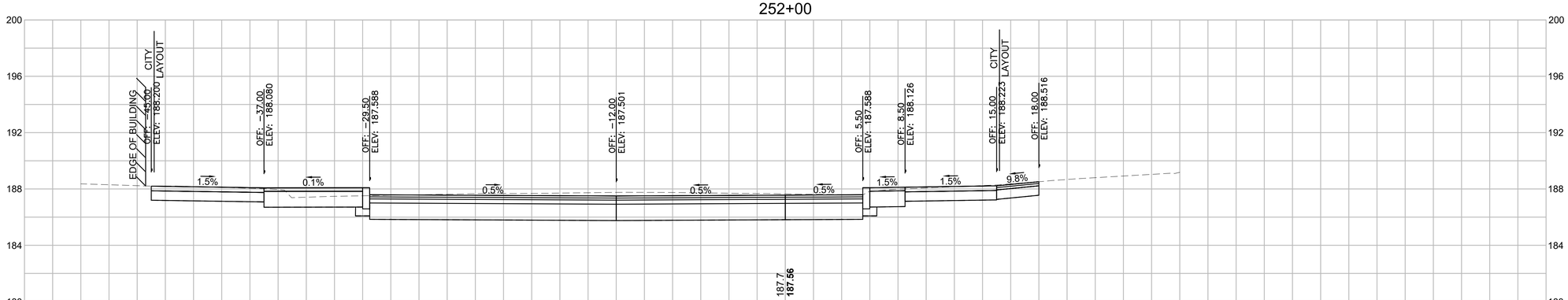
Total Volume at Station 252+50.00	
Cut Area (SF)	**89.23**
Fill Area (SF)	**0.00**
Cut Vol (CY)	**89.1**
Fill Vol (CY)	**0.0**
Cum Cut Vol (CY)	**767.8**
Cum Fill Vol (CY)	**0.1**
Net Vol (CY)	**767.7**

252+25



Total Volume at Station 252+25.00	
Cut Area (SF)	**103.18**
Fill Area (SF)	**0.00**
Cut Vol (CY)	**97.7**
Fill Vol (CY)	**0.0**
Cum Cut Vol (CY)	**678.7**
Cum Fill Vol (CY)	**0.1**
Net Vol (CY)	**678.6**

252+00



Total Volume at Station 252+00.00	
Cut Area (SF)	**107.95**
Fill Area (SF)	**0.00**
Cut Vol (CY)	**100.9**
Fill Vol (CY)	**0.0**
Cum Cut Vol (CY)	**581.0**
Cum Fill Vol (CY)	**0.1**
Net Vol (CY)	**580.8**

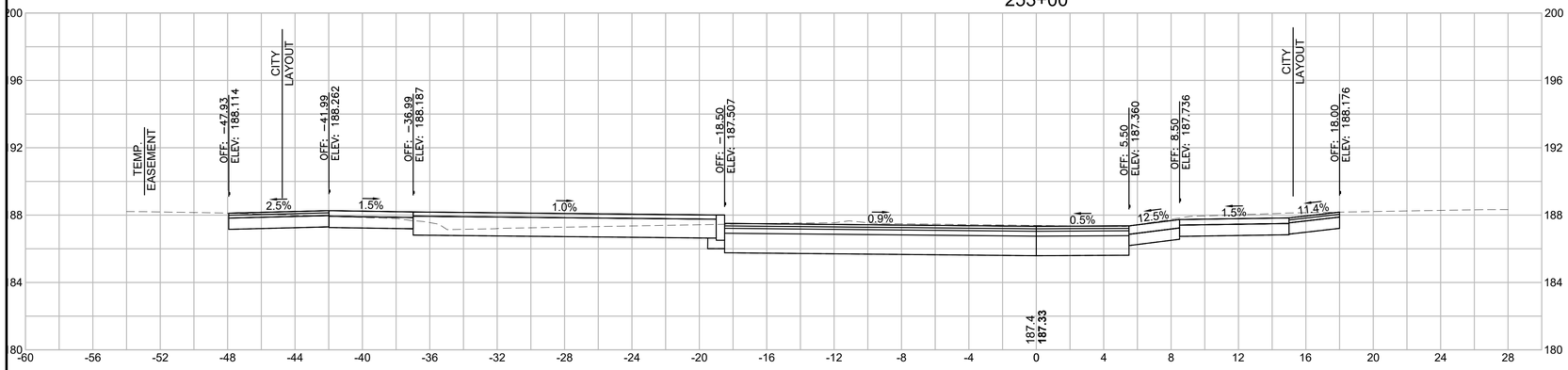
SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	303	358
	PROJECT FILE NO. 608717		

CROSS SECTIONS - BELMONT AVENUE

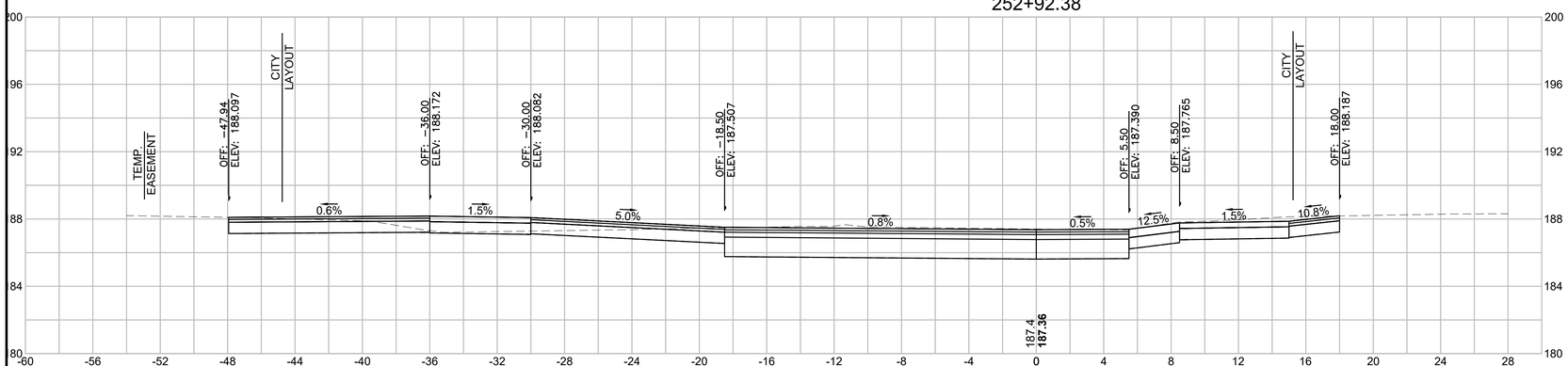
20121457A70_XSC01_BELMONT.DWG Plotted on 5-May-2023 2:46 PM

253+00



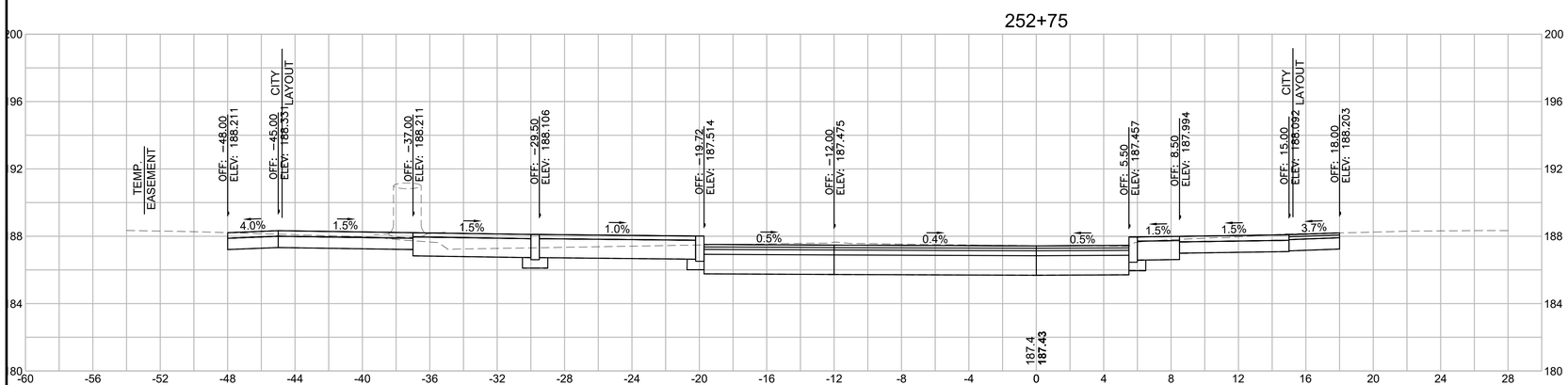
Total Volume at Station 253+00.00	
Cut Area (SF)	**73.28**
Fill Area (SF)	**0.00**
Cut Vol (CY)	**20.7**
Fill Vol (CY)	**0.0**
Cum Cut Vol (CY)	**920.9**
Cum Fill Vol (CY)	**0.1**
Net Vol (CY)	**920.8**

252+92.38



Total Volume at Station 252+92.38	
Cut Area (SF)	**73.25**
Fill Area (SF)	**0.00**
Cut Vol (CY)	**51.3**
Fill Vol (CY)	**0.0**
Cum Cut Vol (CY)	**900.3**
Cum Fill Vol (CY)	**0.1**
Net Vol (CY)	**900.1**

252+75



Total Volume at Station 252+75.00	
Cut Area (SF)	**86.12**
Fill Area (SF)	**0.00**
Cut Vol (CY)	**81.2**
Fill Vol (CY)	**0.0**
Cum Cut Vol (CY)	**849.0**
Cum Fill Vol (CY)	**0.1**
Net Vol (CY)	**848.8**

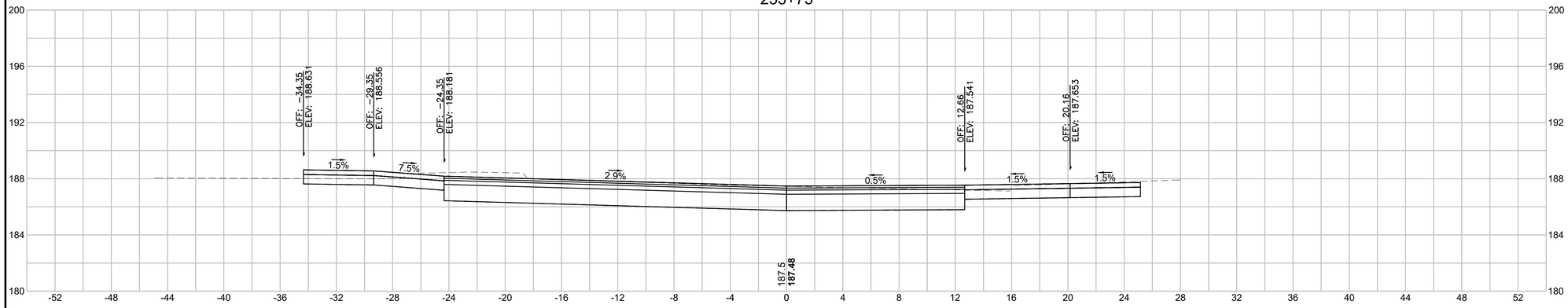
SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	304	358
	PROJECT FILE NO. 608717		

CROSS SECTIONS - BELMONT AVENUE

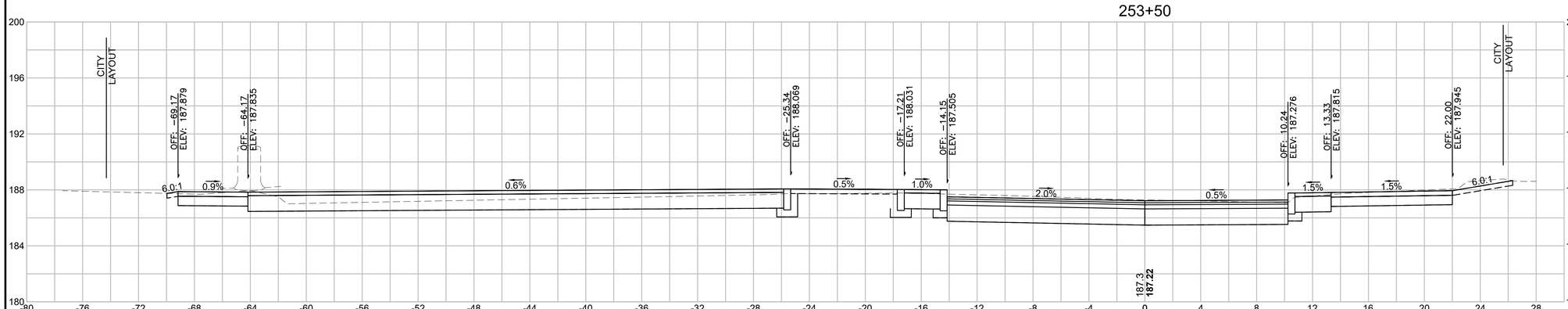
20121457A70_XSC01_BELMONT.DWG Plotted on 5-May-2023 2:46 PM

253+75



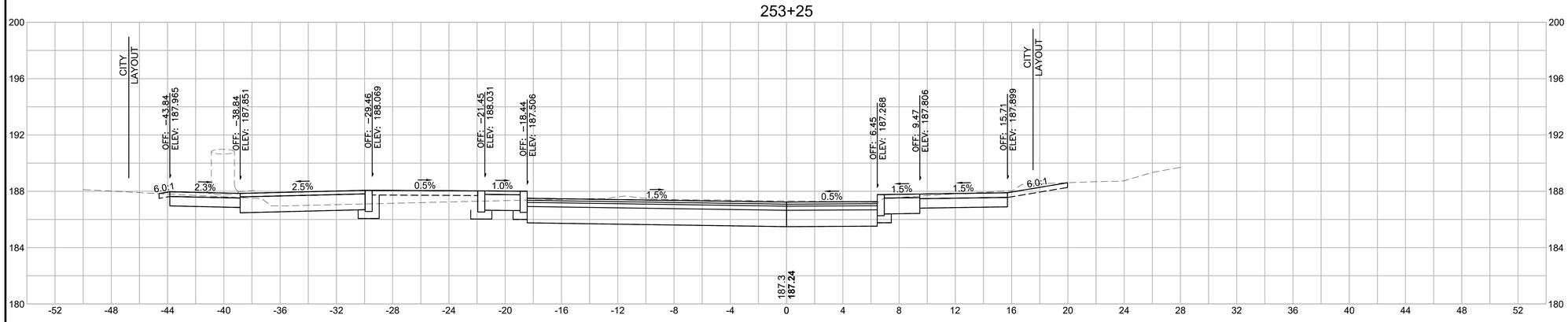
Total Volume at Station 253+75.00	
Cut Area (SF)	**77.52**
Fill Area (SF)	**0.00**
Cut Vol (CY)	**97.0**
Fill Vol (CY)	**0.0**
Cum Cut Vol (CY)	**1193.1**
Cum Fill Vol (CY)	**4.4**
Net Vol (CY)	**1188.8**

253+50



Total Volume at Station 253+50.00	
Cut Area (SF)	**102.70**
Fill Area (SF)	**0.01**
Cut Vol (CY)	**102.3**
Fill Vol (CY)	**2.4**
Cum Cut Vol (CY)	**1096.1**
Cum Fill Vol (CY)	**4.4**
Net Vol (CY)	**1091.7**

253+25



Total Volume at Station 253+25.00	
Cut Area (SF)	**74.66**
Fill Area (SF)	**3.35**
Cut Vol (CY)	**72.9**
Fill Vol (CY)	**1.9**
Cum Cut Vol (CY)	**993.8**
Cum Fill Vol (CY)	**2.0**
Net Vol (CY)	**991.8**

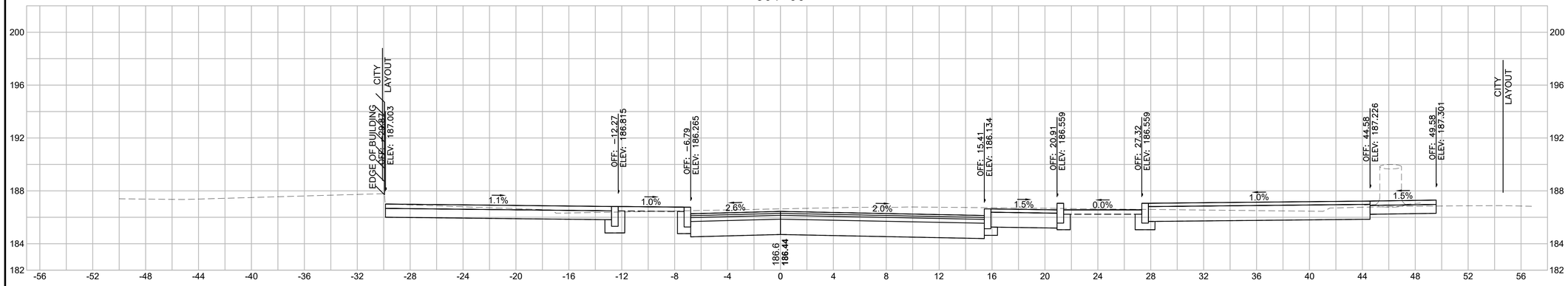
SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	305	358
	PROJECT FILE NO. 608717		

CROSS SECTIONS - BELMONT AVENUE

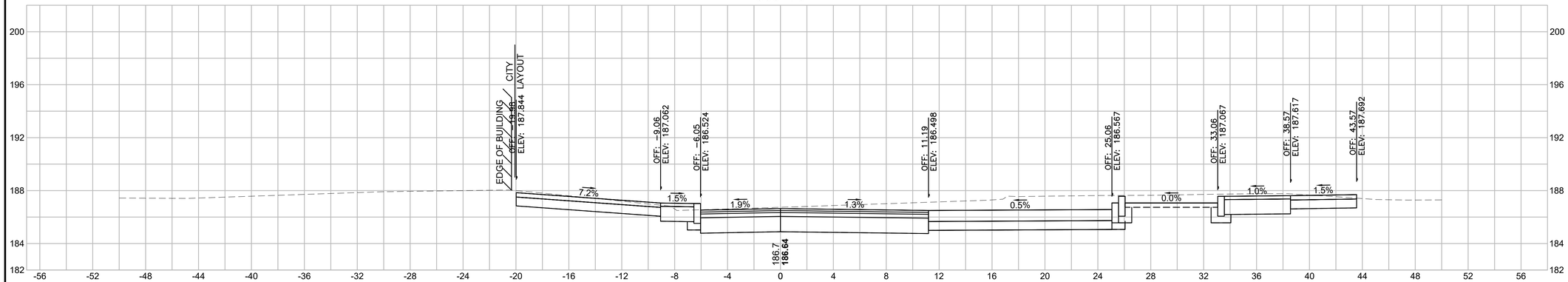
20121457A70_XSC01_BELMONT.DWG Plotted on 5-May-2023 2:46 PM

301+00



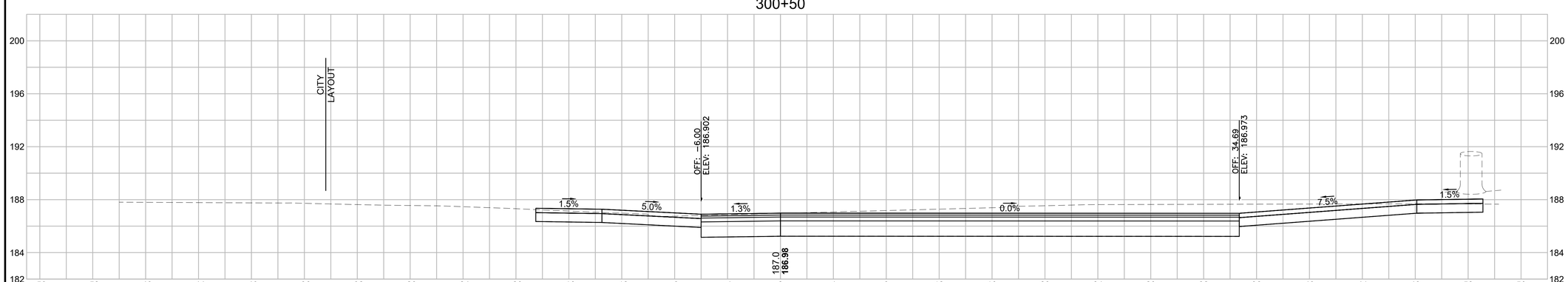
Total Volume at Station 301+00.00	
Cut Area (SF)	**116.51**
Fill Area (SF)	**0.10**
Cut Vol (CY)	**122.5**
Fill Vol (CY)	**0.0**
Cum Cut Vol (CY)	**251.6**
Cum Fill Vol (CY)	**0.0**
Net Vol (CY)	**251.5**

300+75



Total Volume at Station 300+75.00	
Cut Area (SF)	**146.20**
Fill Area (SF)	**0.00**
Cut Vol (CY)	**129.0**
Fill Vol (CY)	**0.0**
Cum Cut Vol (CY)	**129.0**
Cum Fill Vol (CY)	**0.0**
Net Vol (CY)	**129.0**

300+50



Total Volume at Station 300+50.00	
Cut Area (SF)	**130.94**
Fill Area (SF)	**0.00**
Cut Vol (CY)	**0.0**
Fill Vol (CY)	**0.0**
Cum Cut Vol (CY)	**0.0**
Cum Fill Vol (CY)	**0.0**
Net Vol (CY)	**0.0**

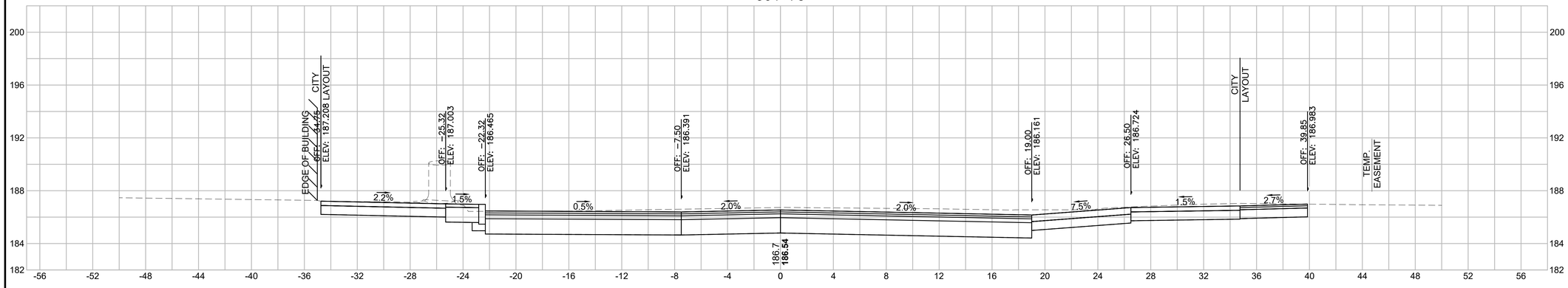
SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	306	358
	PROJECT FILE NO. 608717		

CROSS SECTIONS - BELMONT AVENUE

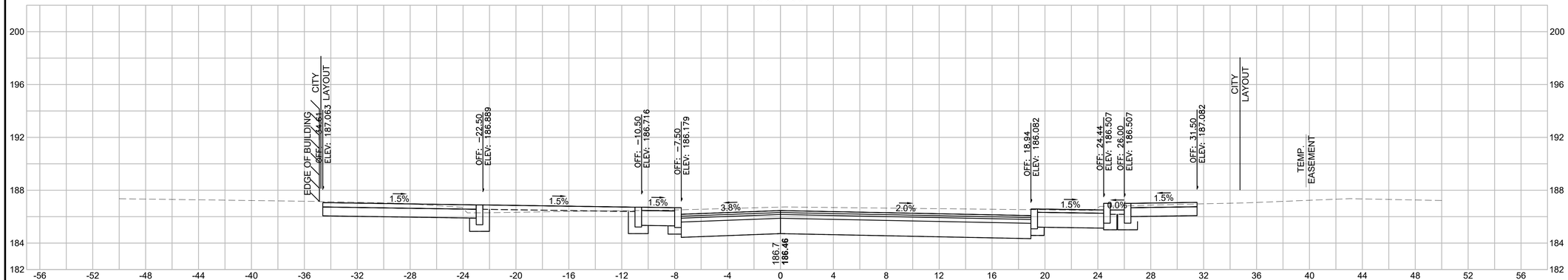
20121457A70_XSC01_BELMONT.DWG Plotted on 5-May-2023 2:47 PM

301+75



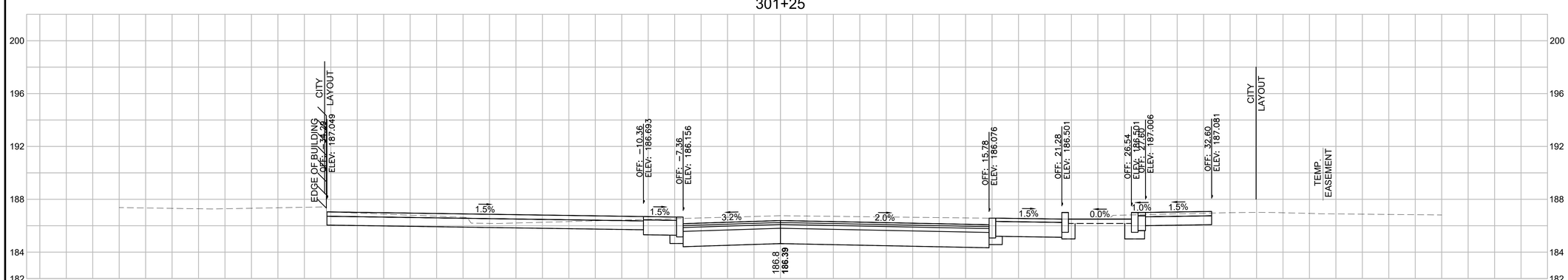
Total Volume at Station 301+75.00	
Cut Area (SF)	**120.64**
Fill Area (SF)	**0.00**
Cut Vol (CY)	**107.5**
Fill Vol (CY)	**0.5**
Cum Cut Vol (CY)	**559.8**
Cum Fill Vol (CY)	**1.0**
Net Vol (CY)	**558.8**

301+50



Total Volume at Station 301+50.00	
Cut Area (SF)	**111.56**
Fill Area (SF)	**1.02**
Cut Vol (CY)	**101.3**
Fill Vol (CY)	**0.4**
Cum Cut Vol (CY)	**452.3**
Cum Fill Vol (CY)	**0.5**
Net Vol (CY)	**451.8**

301+25



Total Volume at Station 301+25.00	
Cut Area (SF)	**108.51**
Fill Area (SF)	**0.00**
Cut Vol (CY)	**99.4**
Fill Vol (CY)	**0.0**
Cum Cut Vol (CY)	**351.0**
Cum Fill Vol (CY)	**0.1**
Net Vol (CY)	**350.9**

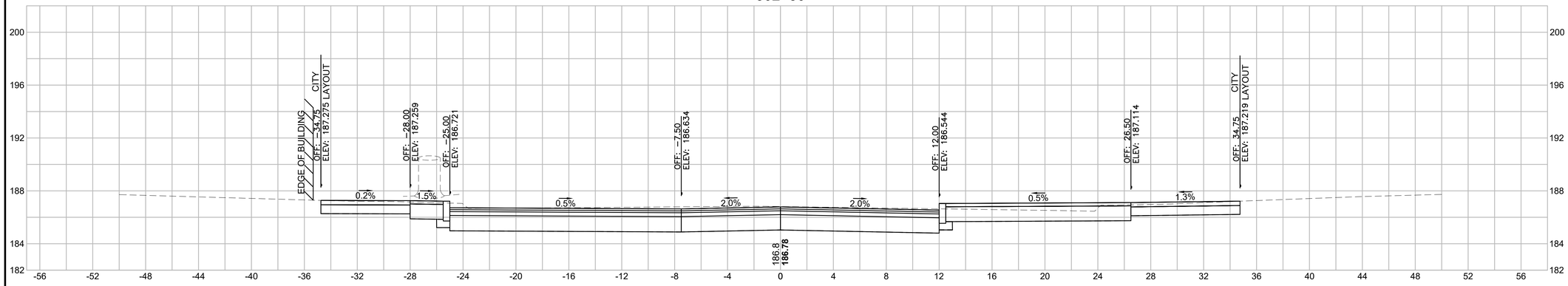
SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	307	358
	PROJECT FILE NO. 608717		

CROSS SECTIONS - BELMONT AVENUE

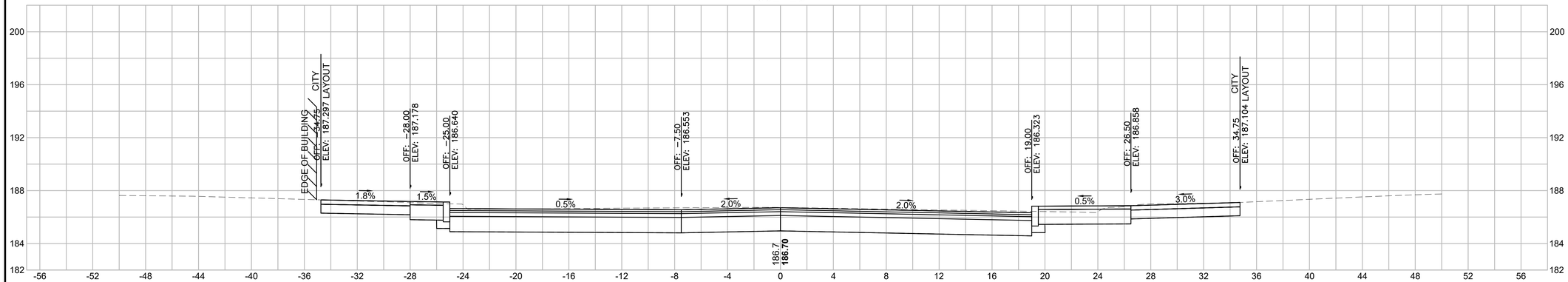
20121457A70_XSC01_BELMONT.DWG Plotted on 5-May-2023 2:47 PM

302+50



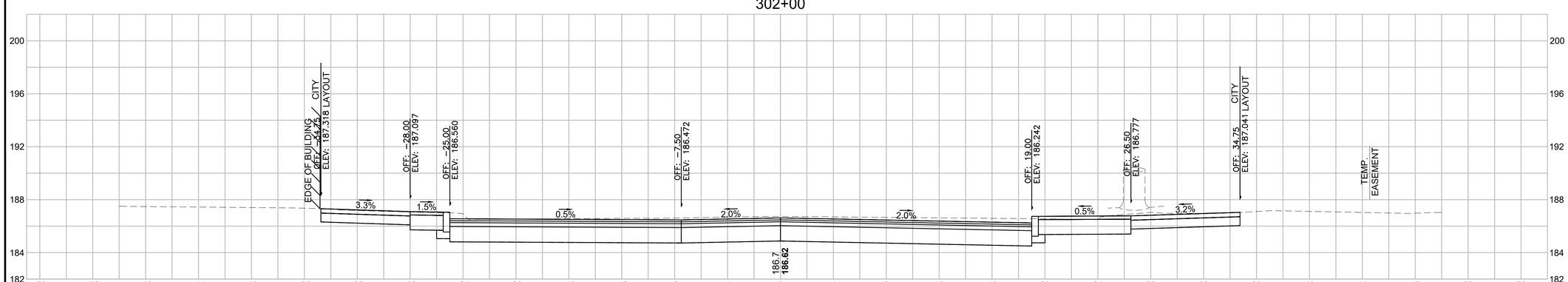
Total Volume at Station 302+50.00	
Cut Area (SF)	**105.33**
Fill Area (SF)	**0.00**
Cut Vol (CY)	**99.6**
Fill Vol (CY)	**0.0**
Cum Cut Vol (CY)	**873.9**
Cum Fill Vol (CY)	**1.0**
Net Vol (CY)	**873.0**

302+25



Total Volume at Station 302+25.00	
Cut Area (SF)	**109.75**
Fill Area (SF)	**0.00**
Cut Vol (CY)	**104.8**
Fill Vol (CY)	**0.0**
Cum Cut Vol (CY)	**774.4**
Cum Fill Vol (CY)	**1.0**
Net Vol (CY)	**773.4**

302+00



Total Volume at Station 302+00.00	
Cut Area (SF)	**116.53**
Fill Area (SF)	**0.00**
Cut Vol (CY)	**109.8**
Fill Vol (CY)	**0.0**
Cum Cut Vol (CY)	**669.6**
Cum Fill Vol (CY)	**1.0**
Net Vol (CY)	**668.6**

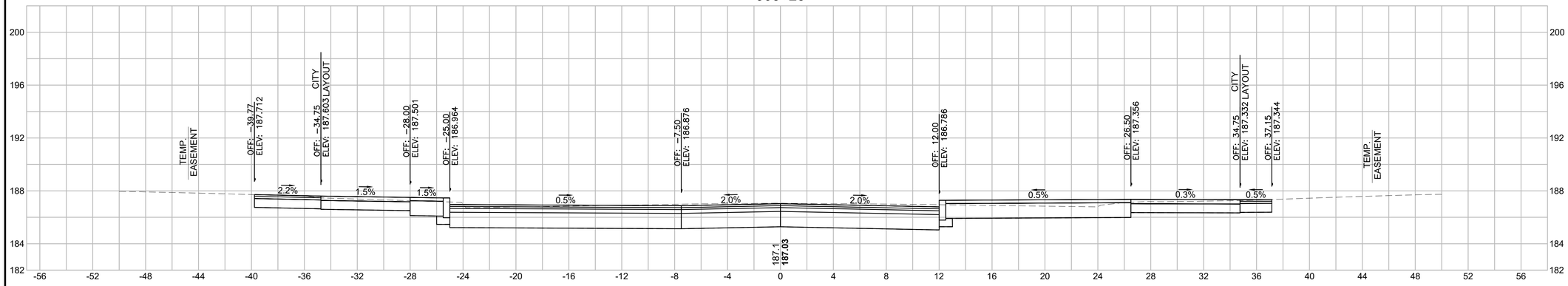
SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	308	358
	PROJECT FILE NO. 608717		

CROSS SECTIONS - BELMONT AVENUE

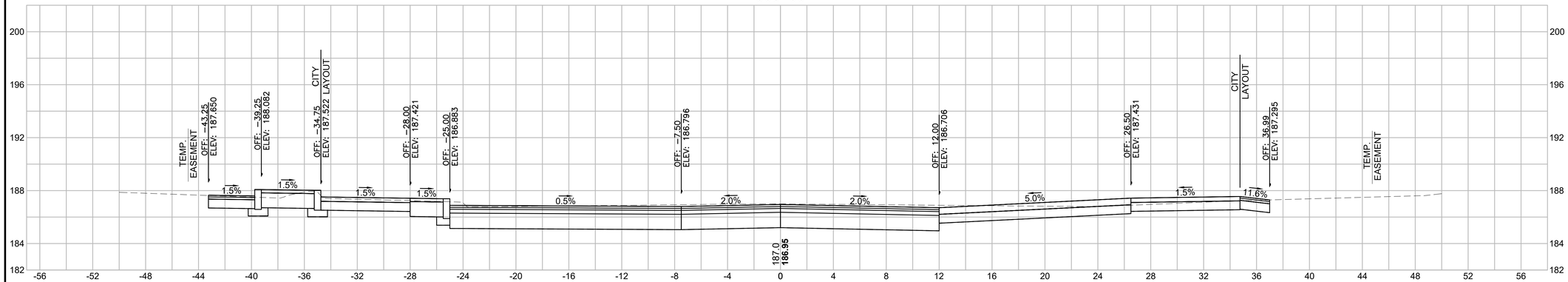
20121457A70_XSC01_BELMONT.DWG Plotted on 5-May-2023 2:47 PM

303+25



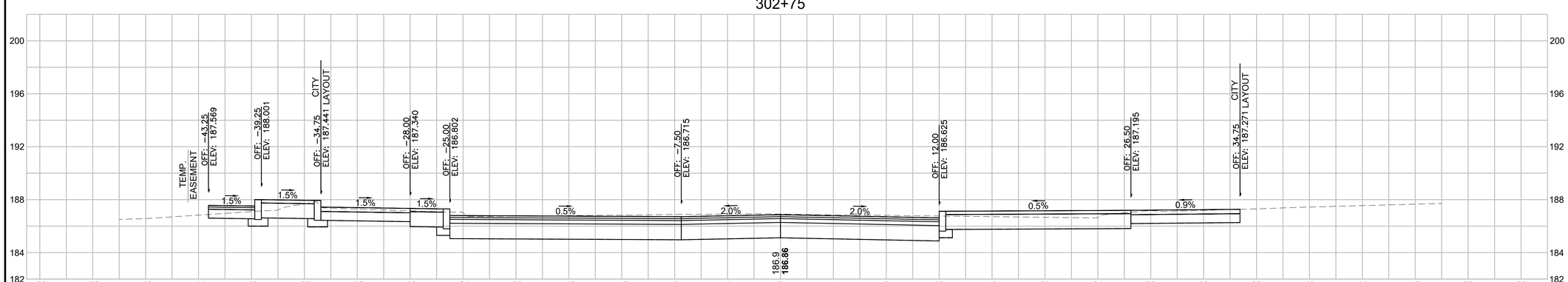
Total Volume at Station 303+25.00	
Cut Area (SF)	**105.79**
Fill Area (SF)	**0.00**
Cut Vol (CY)	**98.6**
Fill Vol (CY)	**0.0**
Cum Cut Vol (CY)	**1171.7**
Cum Fill Vol (CY)	**1.0**
Net Vol (CY)	**1170.8**

303+00



Total Volume at Station 303+00.00	
Cut Area (SF)	**107.20**
Fill Area (SF)	**0.00**
Cut Vol (CY)	**100.0**
Fill Vol (CY)	**0.0**
Cum Cut Vol (CY)	**1073.1**
Cum Fill Vol (CY)	**1.0**
Net Vol (CY)	**1072.2**

302+75



Total Volume at Station 302+75.00	
Cut Area (SF)	**108.88**
Fill Area (SF)	**0.00**
Cut Vol (CY)	**99.2**
Fill Vol (CY)	**0.0**
Cum Cut Vol (CY)	**973.1**
Cum Fill Vol (CY)	**1.0**
Net Vol (CY)	**972.1**

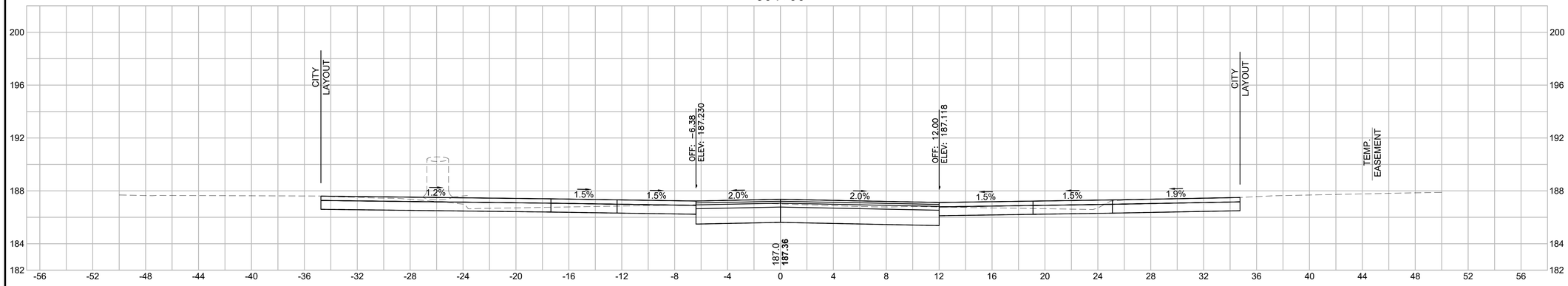
SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	309	358
PROJECT FILE NO.	608717		

CROSS SECTIONS - BELMONT AVENUE

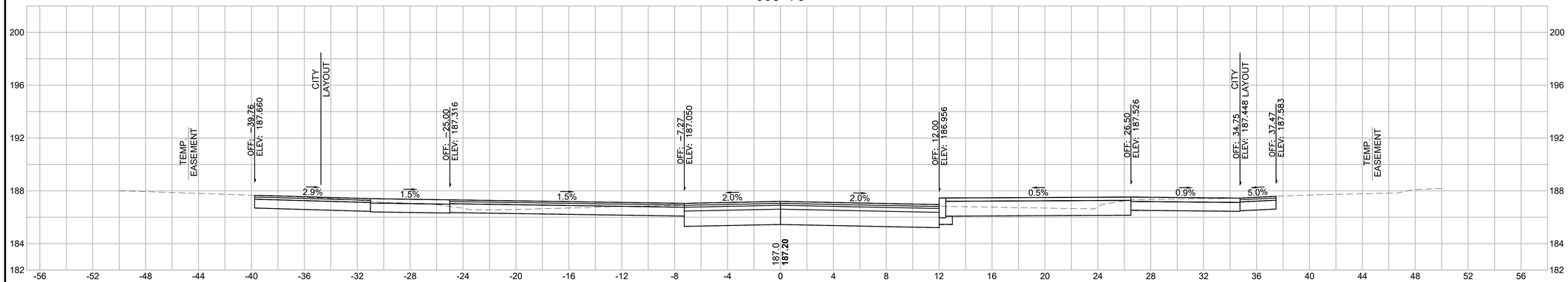
20121457A70_XSC01_BELMONT.DWG Plotted on 5-May-2023 2:47 PM

304+00



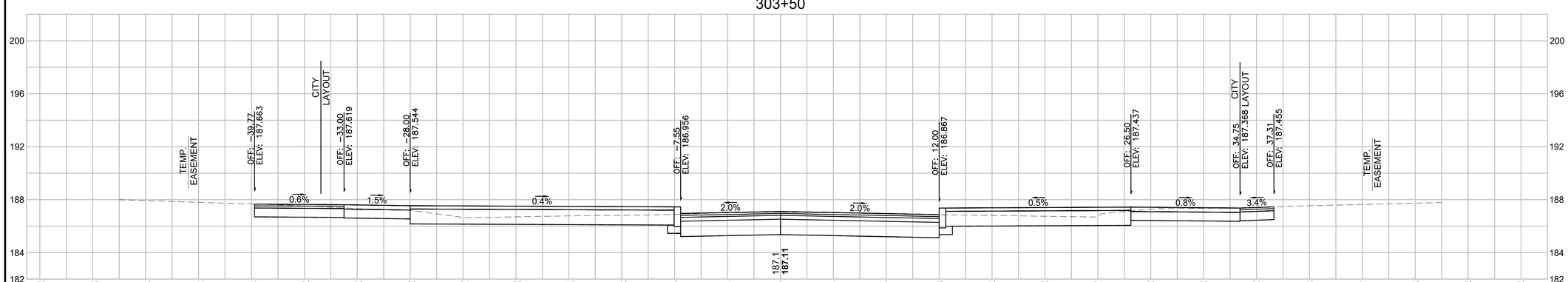
Total Volume at Station 304+00.00	
Cut Area (SF)	**63.85**
Fill Area (SF)	**0.00**
Cut Vol (CY)	**63.0**
Fill Vol (CY)	**0.0**
Cum Cut Vol (CY)	**1386.2**
Cum Fill Vol (CY)	**1.0**
Net Vol (CY)	**1385.3**

303+75



Total Volume at Station 303+75.00	
Cut Area (SF)	**72.15**
Fill Area (SF)	**0.00**
Cut Vol (CY)	**68.0**
Fill Vol (CY)	**0.0**
Cum Cut Vol (CY)	**1323.3**
Cum Fill Vol (CY)	**1.0**
Net Vol (CY)	**1322.3**

303+50



Total Volume at Station 303+50.00	
Cut Area (SF)	**74.69**
Fill Area (SF)	**0.00**
Cut Vol (CY)	**83.6**
Fill Vol (CY)	**0.0**
Cum Cut Vol (CY)	**1255.3**
Cum Fill Vol (CY)	**1.0**
Net Vol (CY)	**1254.3**

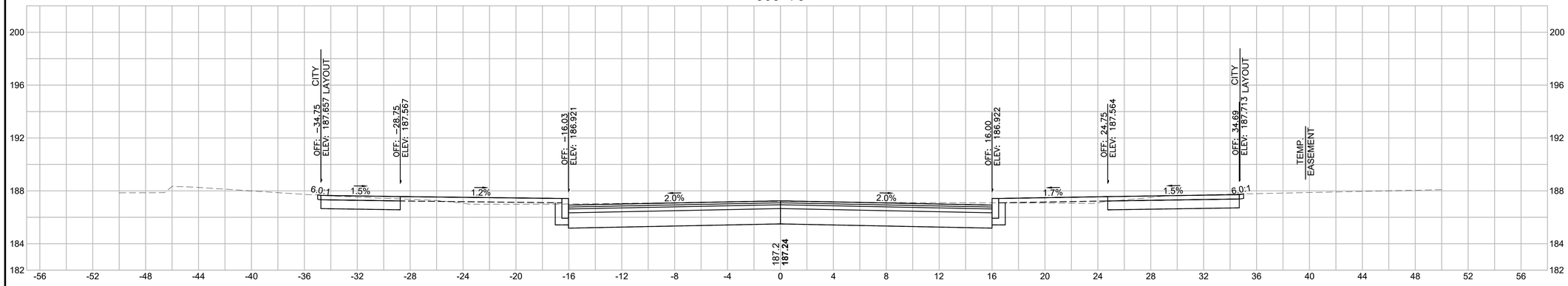
SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	310	358
	PROJECT FILE NO. 608717		

CROSS SECTIONS - BELMONT AVENUE

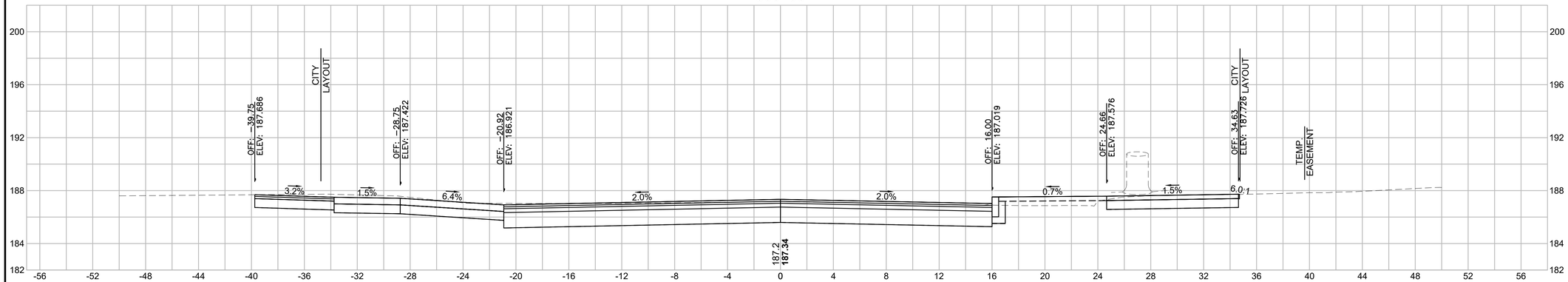
20121457A70_XSC01_BELMONT.DWG Plotted on 5-May-2023 2:47 PM

305+75



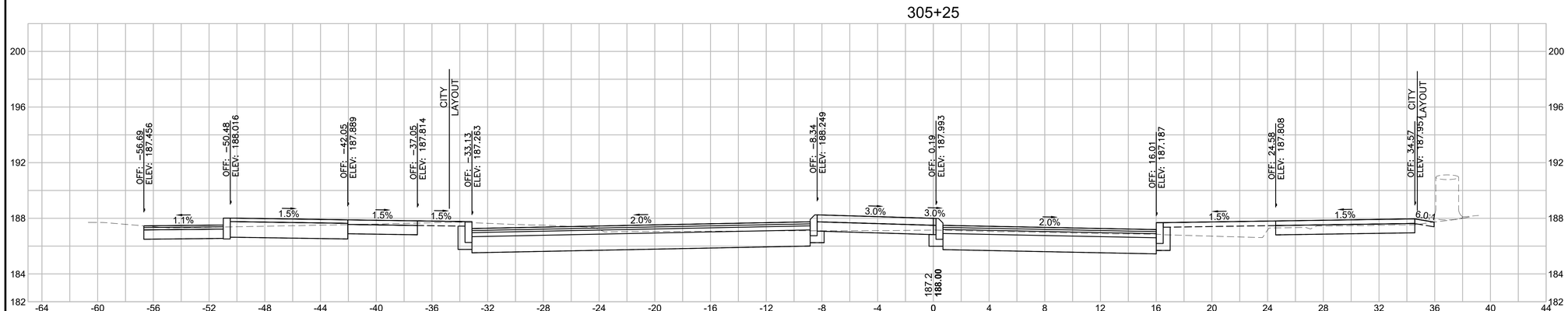
Total Volume at Station 305+75.00	
Cut Area (SF)	**83.35**
Fill Area (SF)	**1.08**
Cut Vol (CY)	**87.2**
Fill Vol (CY)	**1.6**
Cum Cut Vol (CY)	**1920.5**
Cum Fill Vol (CY)	**17.6**
Net Vol (CY)	**1902.9**

305+50



Total Volume at Station 305+50.00	
Cut Area (SF)	**105.01**
Fill Area (SF)	**2.41**
Cut Vol (CY)	**90.4**
Fill Vol (CY)	**3.4**
Cum Cut Vol (CY)	**1833.3**
Cum Fill Vol (CY)	**16.0**
Net Vol (CY)	**1817.3**

305+25



Total Volume at Station 305+25.00	
Cut Area (SF)	**90.24**
Fill Area (SF)	**5.01**
Cut Vol (CY)	**356.7**
Fill Vol (CY)	**11.6**
Cum Cut Vol (CY)	**1742.9**
Cum Fill Vol (CY)	**12.6**
Net Vol (CY)	**1730.4**

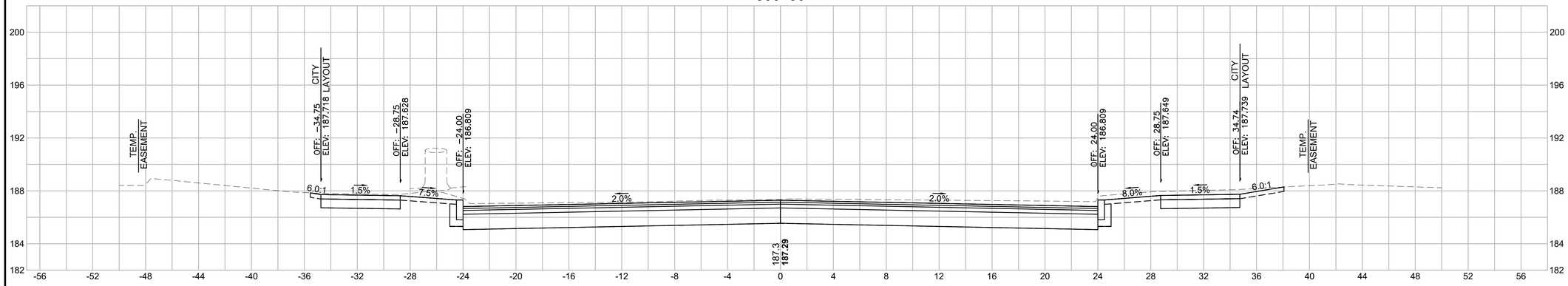
SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	311	358
	PROJECT FILE NO. 608717		

CROSS SECTIONS - BELMONT AVENUE

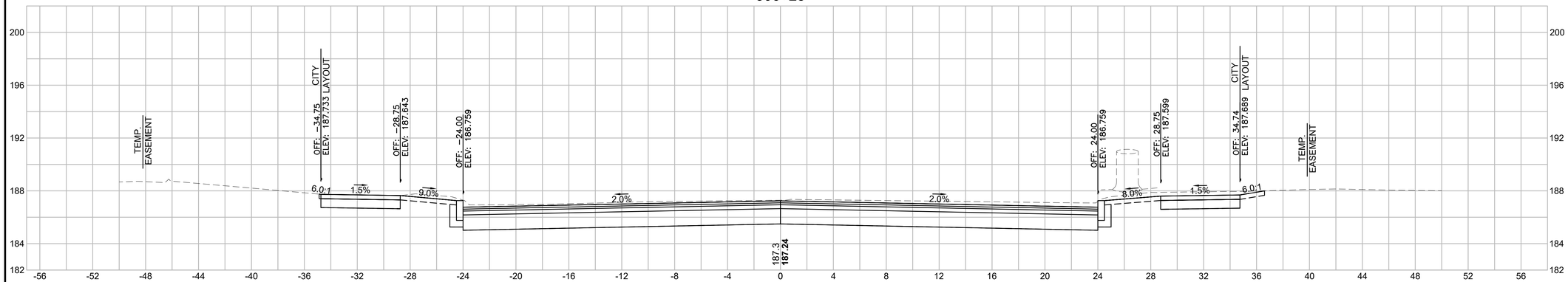
20121457A70_XSC01_BELMONT.DWG Plotted on 5-May-2023 2:47 PM

306+50



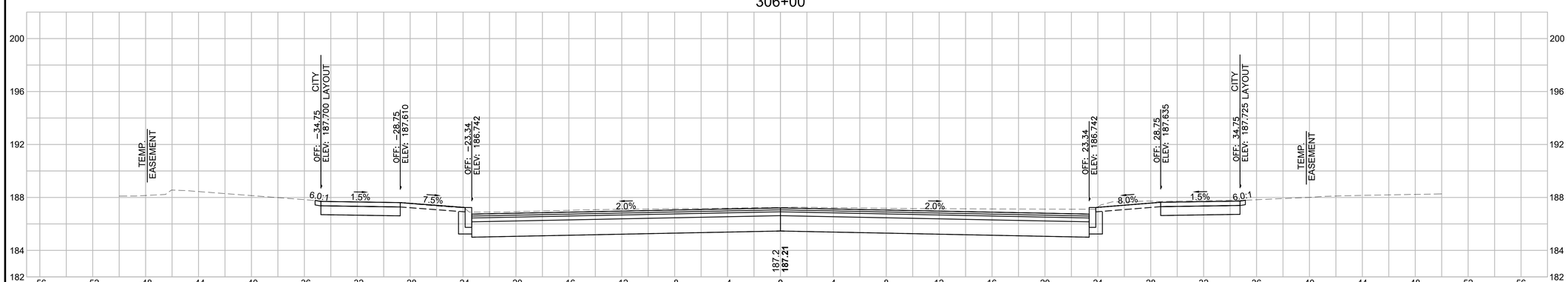
Total Volume at Station 306+50.00	
Cut Area (SF)	**118.85**
Fill Area (SF)	**0.00**
Cut Vol (CY)	**108.4**
Fill Vol (CY)	**0.0**
Cum Cut Vol (CY)	**2222.9**
Cum Fill Vol (CY)	**18.1**
Net Vol (CY)	**2204.8**

306+25



Total Volume at Station 306+25.00	
Cut Area (SF)	**115.24**
Fill Area (SF)	**0.00**
Cut Vol (CY)	**104.4**
Fill Vol (CY)	**0.0**
Cum Cut Vol (CY)	**2114.5**
Cum Fill Vol (CY)	**18.1**
Net Vol (CY)	**2096.4**

306+00



Total Volume at Station 306+00.00	
Cut Area (SF)	**110.21**
Fill Area (SF)	**0.00**
Cut Vol (CY)	**89.6**
Fill Vol (CY)	**0.5**
Cum Cut Vol (CY)	**2010.1**
Cum Fill Vol (CY)	**18.1**
Net Vol (CY)	**1992.0**

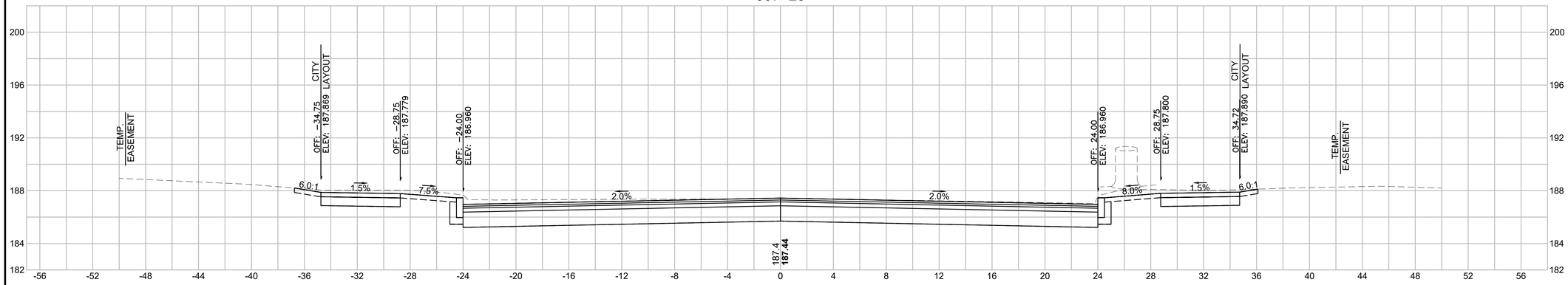
SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	312	358
	PROJECT FILE NO. 608717		

CROSS SECTIONS - BELMONT AVENUE

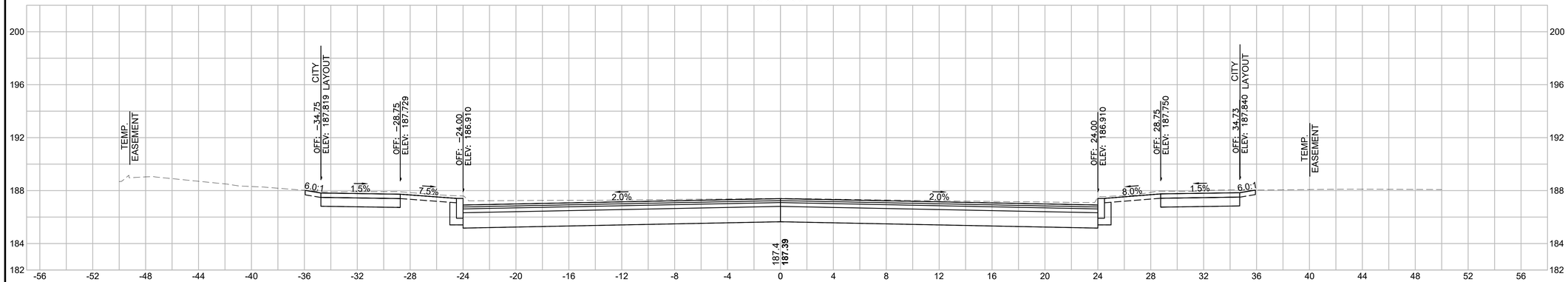
20121457A70_XSC01_BELMONT.DWG Plotted on 5-May-2023 2:48 PM

307+25



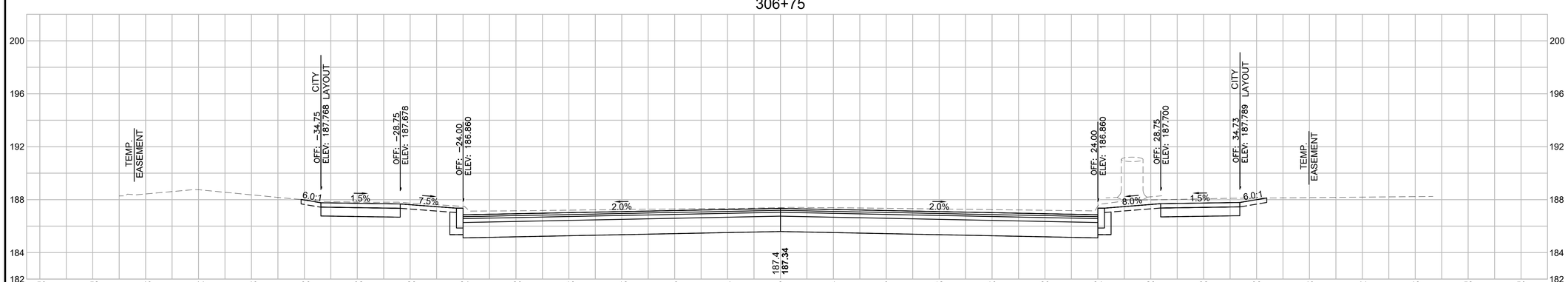
Total Volume at Station 307+25.00	
Cut Area (SF)	**113.49**
Fill Area (SF)	**0.00**
Cut Vol (CY)	**104.7**
Fill Vol (CY)	**0.0**
Cum Cut Vol (CY)	**2543.4**
Cum Fill Vol (CY)	**18.1**
Net Vol (CY)	**2525.3**

307+00



Total Volume at Station 307+00.00	
Cut Area (SF)	**112.70**
Fill Area (SF)	**0.00**
Cut Vol (CY)	**106.5**
Fill Vol (CY)	**0.0**
Cum Cut Vol (CY)	**2438.6**
Cum Fill Vol (CY)	**18.1**
Net Vol (CY)	**2420.5**

306+75



Total Volume at Station 306+75.00	
Cut Area (SF)	**117.27**
Fill Area (SF)	**0.00**
Cut Vol (CY)	**109.3**
Fill Vol (CY)	**0.0**
Cum Cut Vol (CY)	**2332.2**
Cum Fill Vol (CY)	**18.1**
Net Vol (CY)	**2314.1**

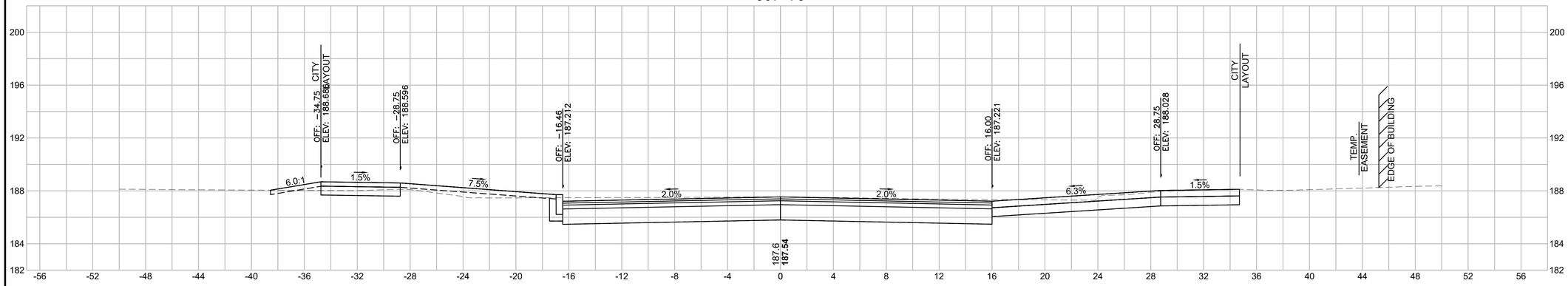
SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	313	358
	PROJECT FILE NO. 608717		

CROSS SECTIONS - BELMONT AVENUE

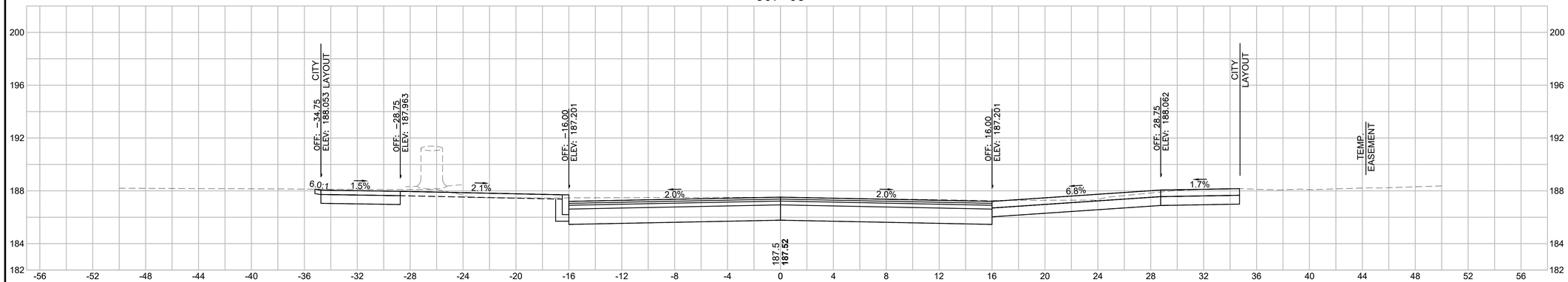
20121457A70_XSC01_BELMONT.DWG Plotted on 5-May-2023 2:48 PM

307+75



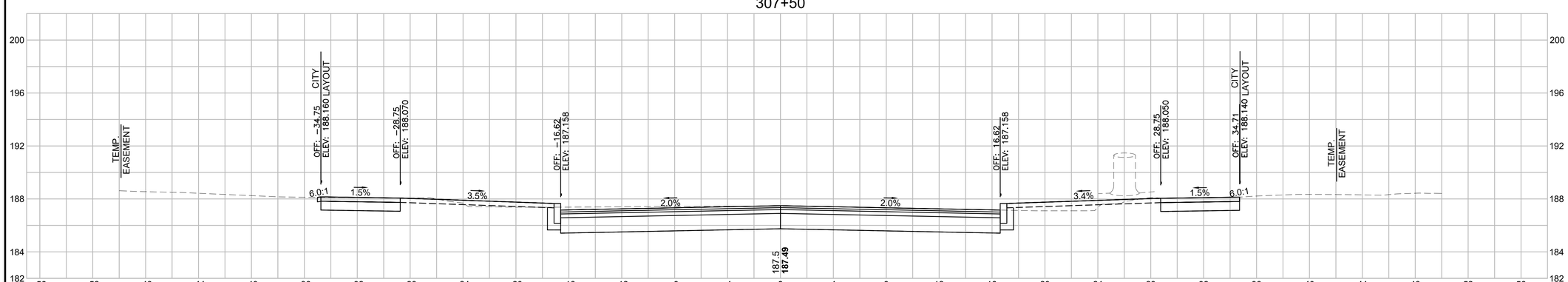
Total Volume at Station 307+75.00	
Cut Area (SF)	**87.97**
Fill Area (SF)	**2.57**
Cut Vol (CY)	**33.5**
Fill Vol (CY)	**0.5**
Cum Cut Vol (CY)	**2714.0**
Cum Fill Vol (CY)	**20.5**
Net Vol (CY)	**2693.6**

307+65



Total Volume at Station 307+65.00	
Cut Area (SF)	**93.03**
Fill Area (SF)	**0.06**
Cut Vol (CY)	**47.9**
Fill Vol (CY)	**0.7**
Cum Cut Vol (CY)	**2680.5**
Cum Fill Vol (CY)	**20.0**
Net Vol (CY)	**2660.5**

307+50



Total Volume at Station 307+50.00	
Cut Area (SF)	**79.34**
Fill Area (SF)	**2.50**
Cut Vol (CY)	**89.3**
Fill Vol (CY)	**1.2**
Cum Cut Vol (CY)	**2632.6**
Cum Fill Vol (CY)	**19.3**
Net Vol (CY)	**2613.4**

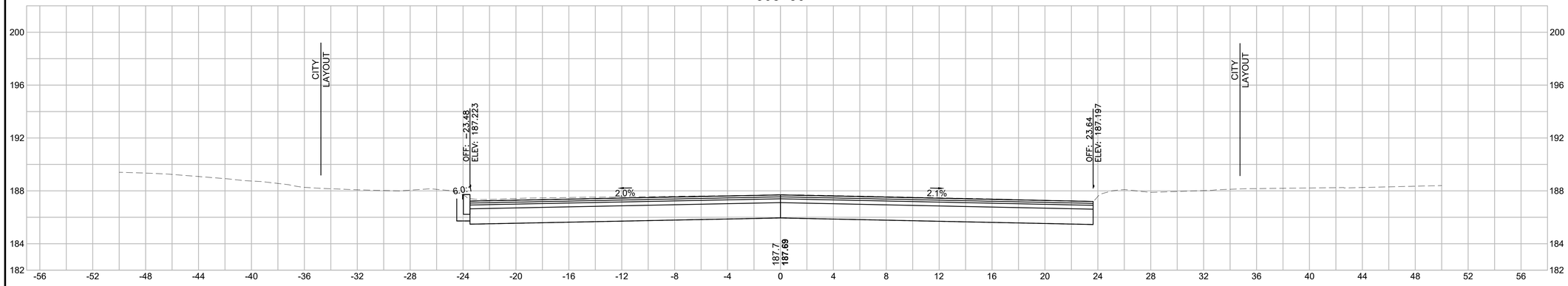
SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	314	358
	PROJECT FILE NO. 608717		

CROSS SECTIONS - BELMONT AVENUE

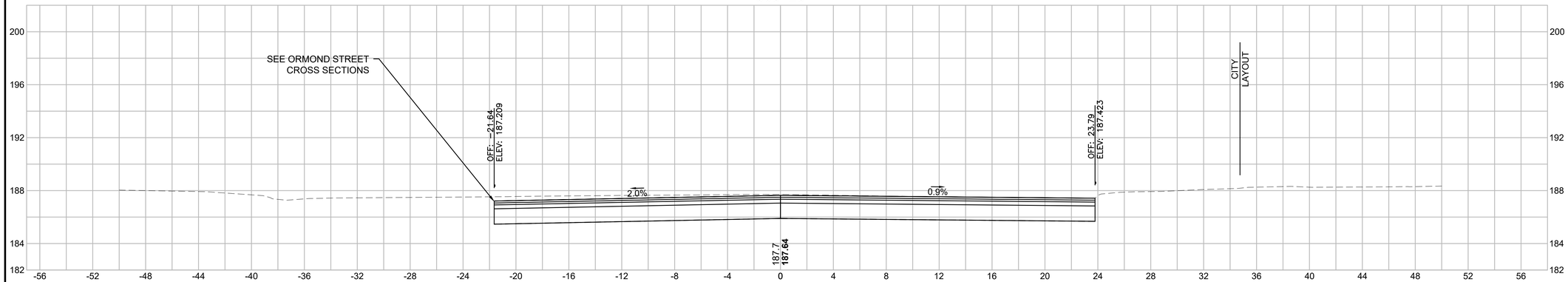
Plotted on 5-May-2023 2:48 PM
20121457A70_XSC01_BELMONT.DWG

308+50



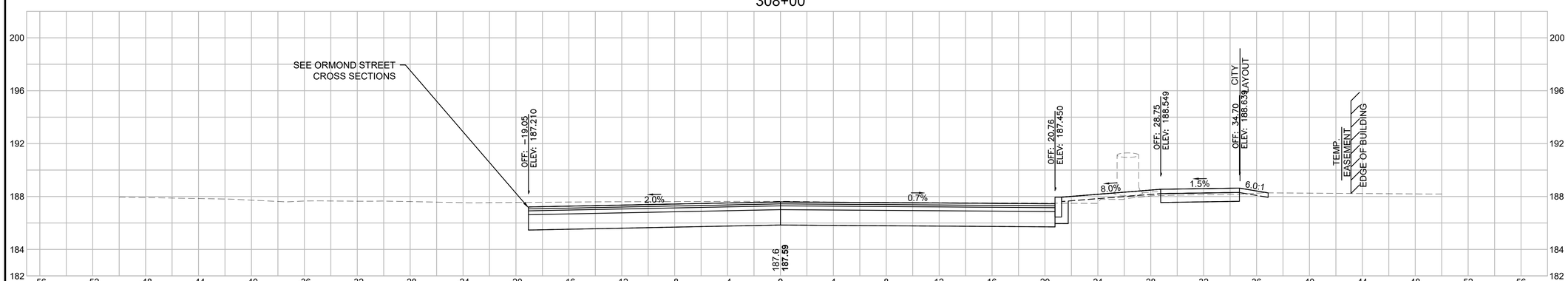
Total Volume at Station 308+50.00	
Cut Area (SF)	**93.94**
Fill Area (SF)	**0.00**
Cut Vol (CY)	**93.5**
Fill Vol (CY)	**0.0**
Cum Cut Vol (CY)	**2992.2**
Cum Fill Vol (CY)	**22.5**
Net Vol (CY)	**2969.7**

308+25



Total Volume at Station 308+25.00	
Cut Area (SF)	**107.99**
Fill Area (SF)	**0.10**
Cut Vol (CY)	**97.0**
Fill Vol (CY)	**0.4**
Cum Cut Vol (CY)	**2898.8**
Cum Fill Vol (CY)	**22.5**
Net Vol (CY)	**2876.3**

308+00



Total Volume at Station 308+00.00	
Cut Area (SF)	**101.53**
Fill Area (SF)	**0.85**
Cut Vol (CY)	**87.7**
Fill Vol (CY)	**1.6**
Cum Cut Vol (CY)	**2801.8**
Cum Fill Vol (CY)	**22.1**
Net Vol (CY)	**2779.7**

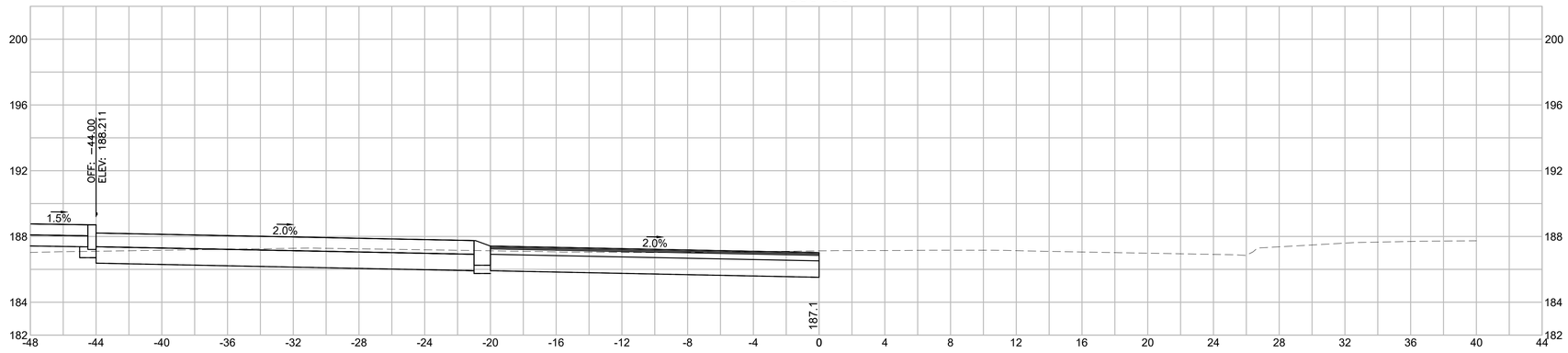
SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	315	358
	PROJECT FILE NO. 608717		

CROSS SECTIONS - BELMONT AVENUE

20121457A70_XSC01_BELMONT.DWG Plotted on 5-May-2023 2:48 PM

350+50



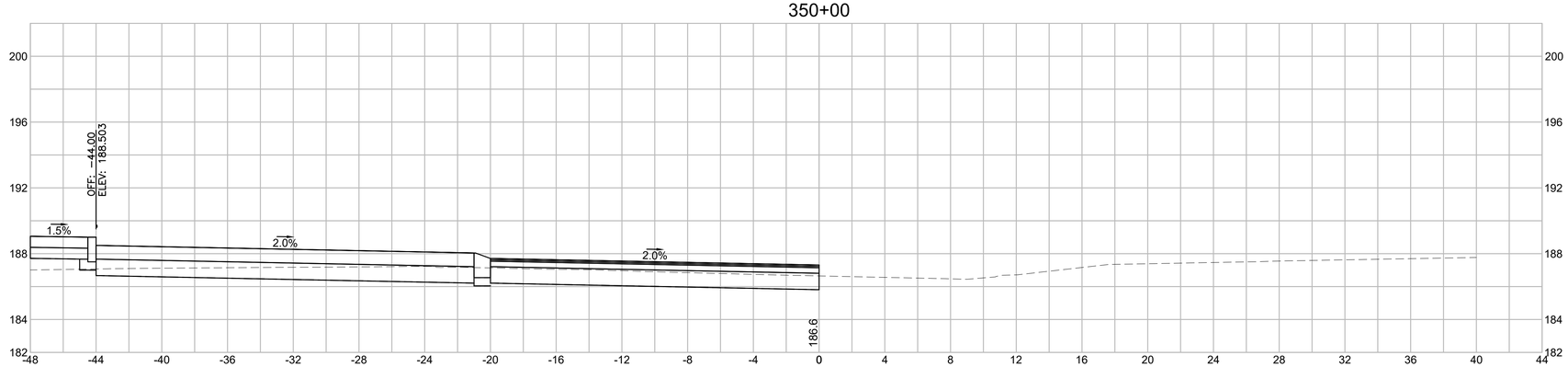
Total Volume at Station 350+50.00	
Cut Area (SF)	**57.53**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**55.6**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**104.1**
Cum Fill Vol (CF)	**0.0**
Net Vol (CF)	**104.1**

350+25



Total Volume at Station 350+25.00	
Cut Area (SF)	**62.51**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**48.5**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**48.5**
Cum Fill Vol (CF)	**0.0**
Net Vol (CF)	**48.5**

350+00



Total Volume at Station 350+00.00	
Cut Area (SF)	**42.33**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**0.0**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**0.0**
Cum Fill Vol (CF)	**0.0**
Net Vol (CF)	**0.0**

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	358	365
	PROJECT FILE NO.	608717	

CROSS SECTIONS - BELMONT AVENUE

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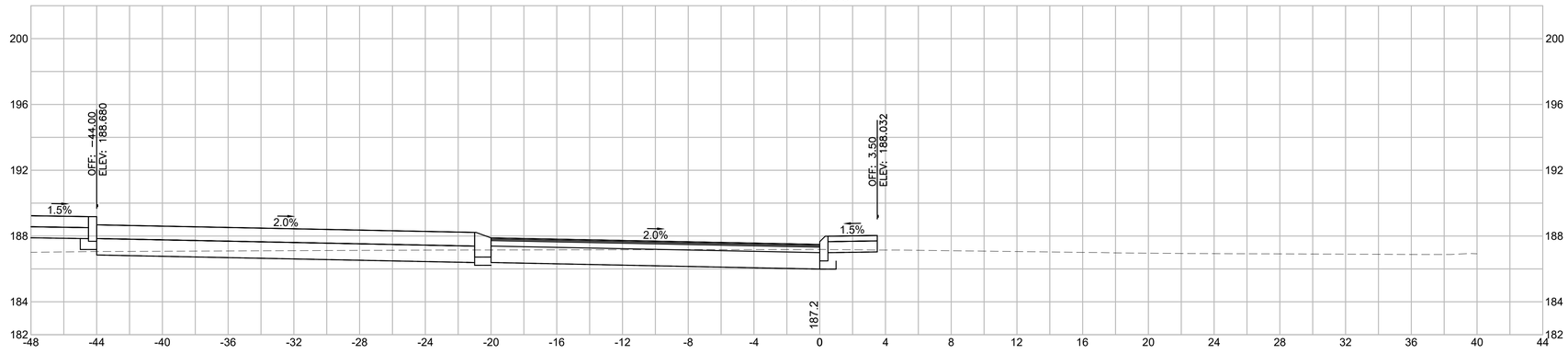
20121457A70_XSC01_BELMONT.DWG

351+25



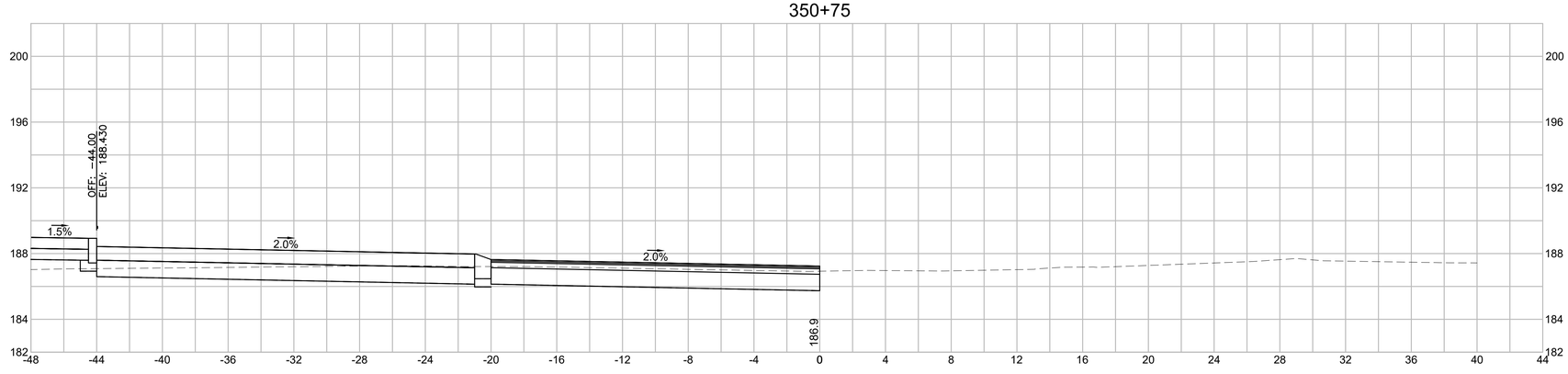
Total Volume at Station 351+25.00	
Cut Area (SF)	**37.80**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**34.2**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**224.6**
Cum Fill Vol (CF)	**0.0**
Net Vol (CF)	**224.6**

351+00



Total Volume at Station 351+00.00	
Cut Area (SF)	**36.18**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**38.2**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**190.4**
Cum Fill Vol (CF)	**0.0**
Net Vol (CF)	**190.4**

350+75



Total Volume at Station 350+75.00	
Cut Area (SF)	**46.34**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**48.1**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**152.2**
Cum Fill Vol (CF)	**0.0**
Net Vol (CF)	**152.2**

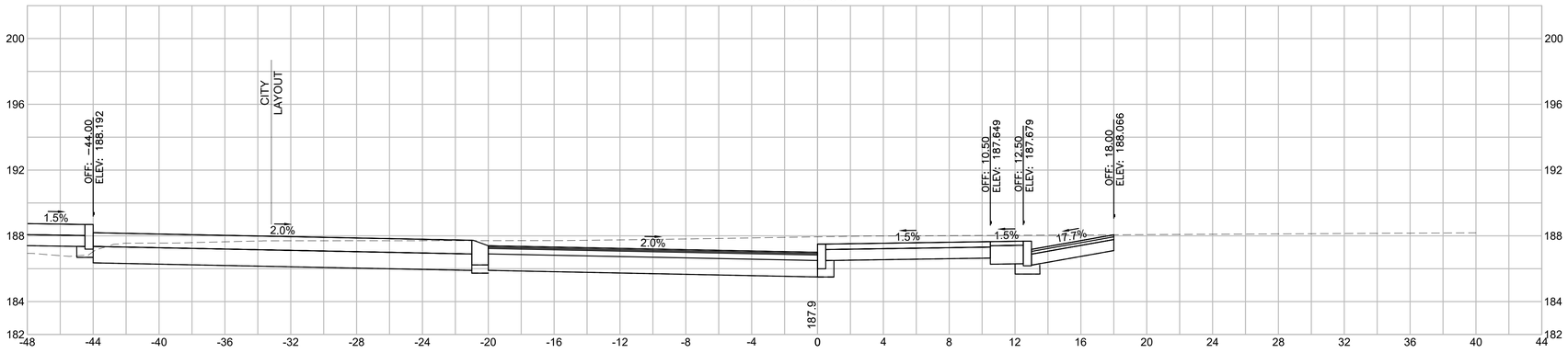
SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	317	358
	PROJECT FILE NO. 608717		

CROSS SECTIONS - BELMONT AVENUE

20121457A70_XSC01_BELMONT.DWG Plotted on 5-May-2023 2:48 PM

352+00



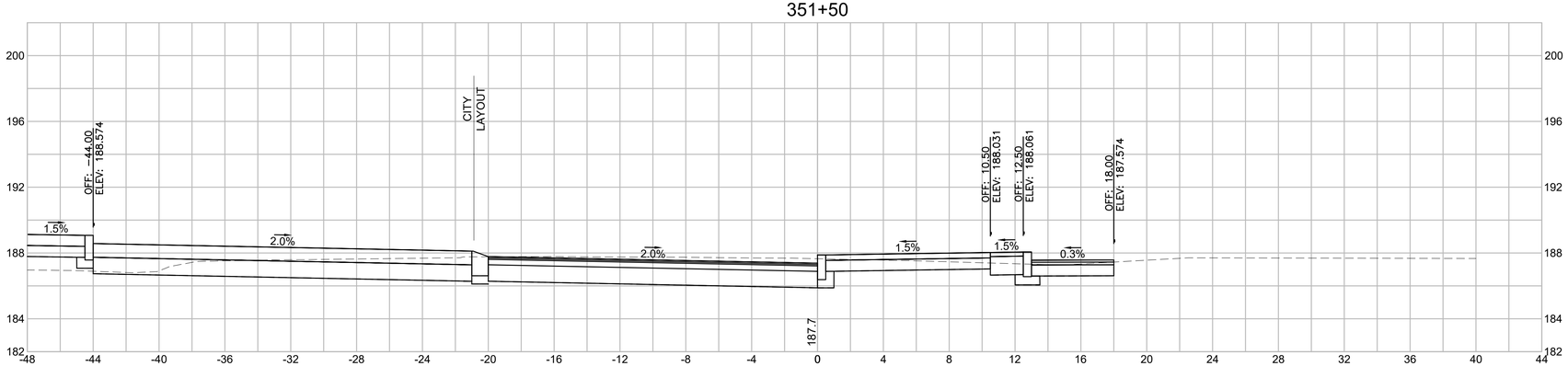
Total Volume at Station 352+00.00	
Cut Area (SF)	**108.57**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**96.5**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**451.6**
Cum Fill Vol (CF)	**0.0**
Net Vol (CF)	**451.6**

351+75



Total Volume at Station 351+75.00	
Cut Area (SF)	**99.82**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**79.6**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**355.1**
Cum Fill Vol (CF)	**0.0**
Net Vol (CF)	**355.1**

351+50



Total Volume at Station 351+50.00	
Cut Area (SF)	**72.14**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**50.9**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**275.5**
Cum Fill Vol (CF)	**0.0**
Net Vol (CF)	**275.5**

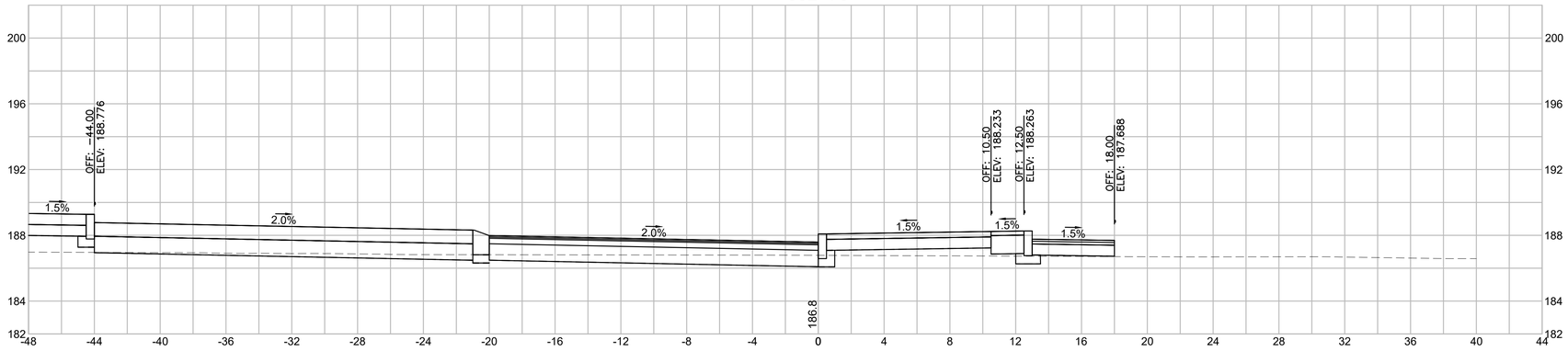
SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	318	358
	PROJECT FILE NO. 608717		

CROSS SECTIONS - BELMONT AVENUE

20121457A70_XSC01_BELMONT.DWG Plotted on 5-May-2023 2:49 PM

352+75



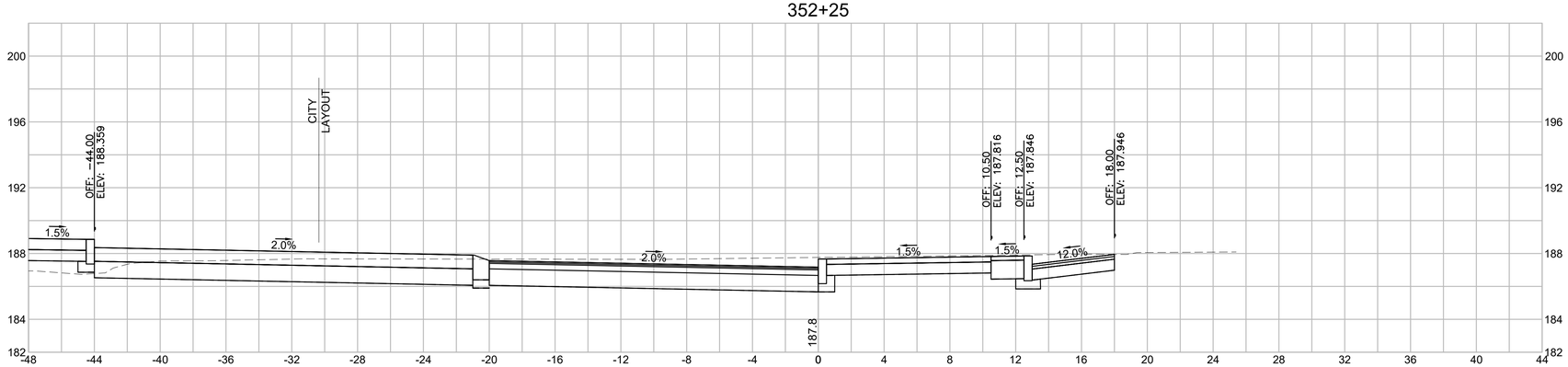
Total Volume at Station 352+75.00	
Cut Area (SF)	**23.90**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**41.4**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**659.2**
Cum Fill Vol (CF)	**0.0**
Net Vol (CF)	**659.2**

352+50



Total Volume at Station 352+50.00	
Cut Area (SF)	**65.61**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**73.1**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**617.8**
Cum Fill Vol (CF)	**0.0**
Net Vol (CF)	**617.8**

352+25



Total Volume at Station 352+25.00	
Cut Area (SF)	**92.34**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**93.0**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**544.6**
Cum Fill Vol (CF)	**0.0**
Net Vol (CF)	**544.6**

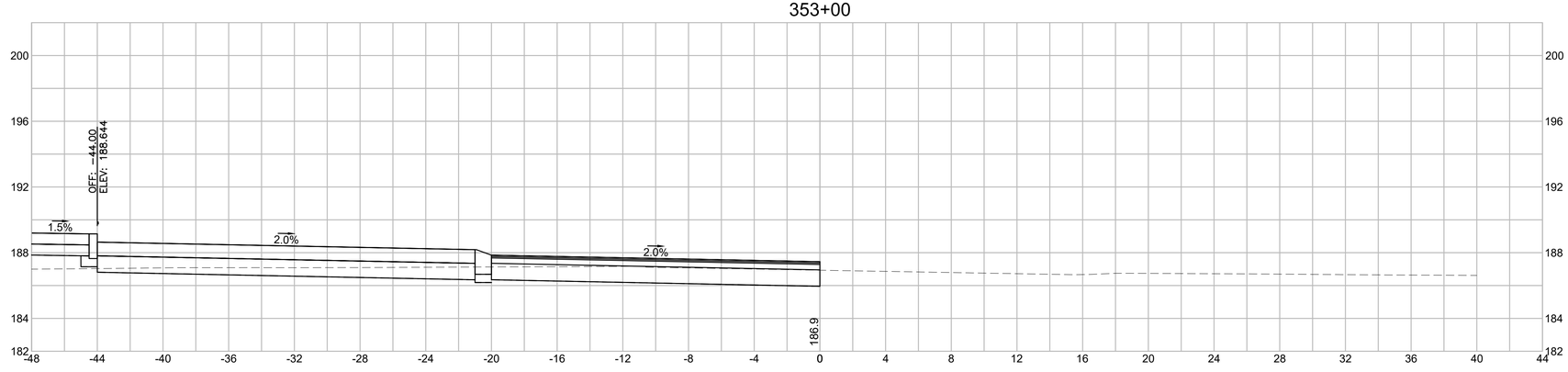
SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	319	358
	PROJECT FILE NO.	608717	

CROSS SECTIONS - BELMONT AVENUE

20121457A70_XSC01_BELMONT.DWG Plotted on 5-May-2023 2:49 PM

353+00



Total Volume at Station 353+00.00	
Cut Area (SF)	**40.56**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**29.8**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**689.0**
Cum Fill Vol (CF)	**0.0**
Net Vol (CF)	**689.0**

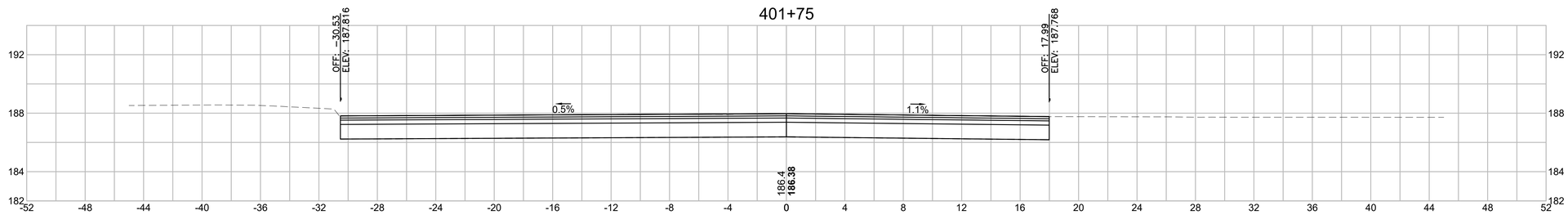
SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	320	358
PROJECT FILE NO.	608717		

CROSS SECTIONS - DICKINSON STREET

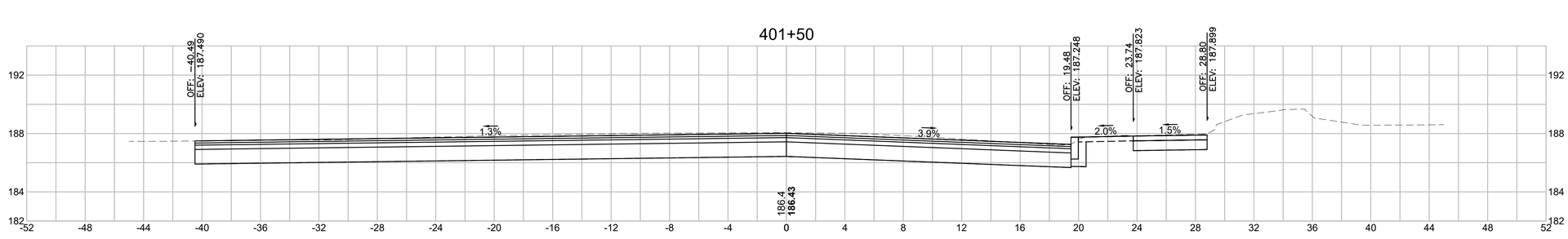
20121457A70_XSC01_DICKINSON.DWG Plotted on 5-May-2023 2:50 PM

401+75



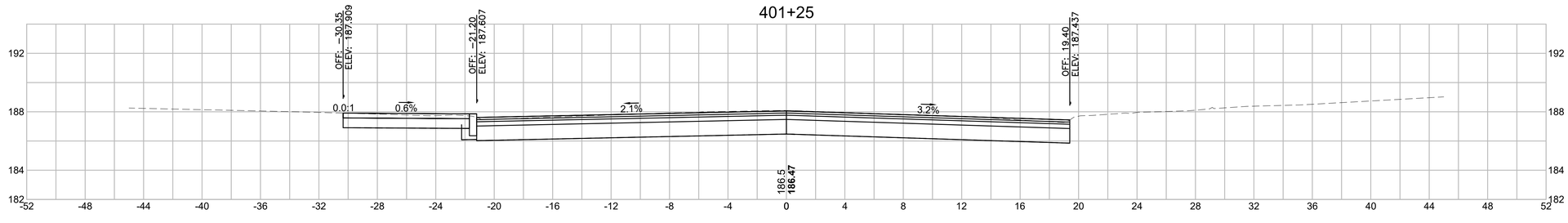
Total Volume at Station 401+75.00	
Cut Area (SF)	**104.36**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**97.8**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**249.7**
Cum Fill Vol (CF)	**0.0**
Net Vol (CF)	**249.7**

401+50



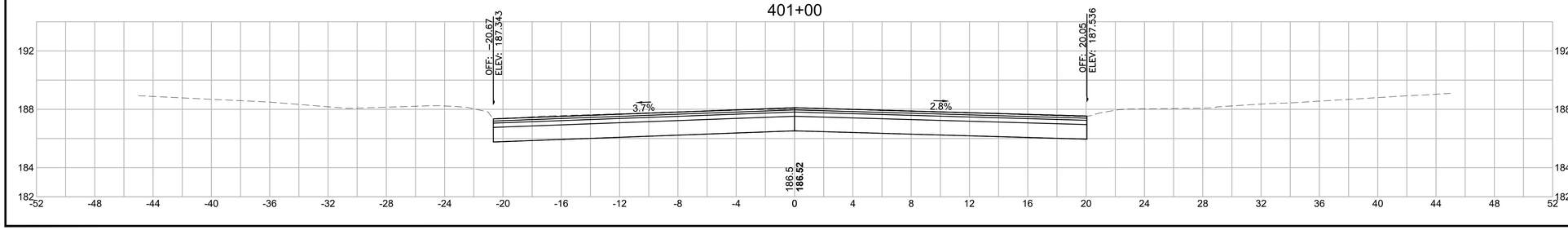
Total Volume at Station 401+50.00	
Cut Area (SF)	**106.96**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**85.9**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**151.9**
Cum Fill Vol (CF)	**0.0**
Net Vol (CF)	**151.9**

401+25



Total Volume at Station 401+25.00	
Cut Area (SF)	**78.48**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**66.0**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**66.0**
Cum Fill Vol (CF)	**0.0**
Net Vol (CF)	**66.0**

401+00



Total Volume at Station 401+00.00	
Cut Area (SF)	**64.16**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**0.0**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**0.0**
Cum Fill Vol (CF)	**0.0**
Net Vol (CF)	**0.0**

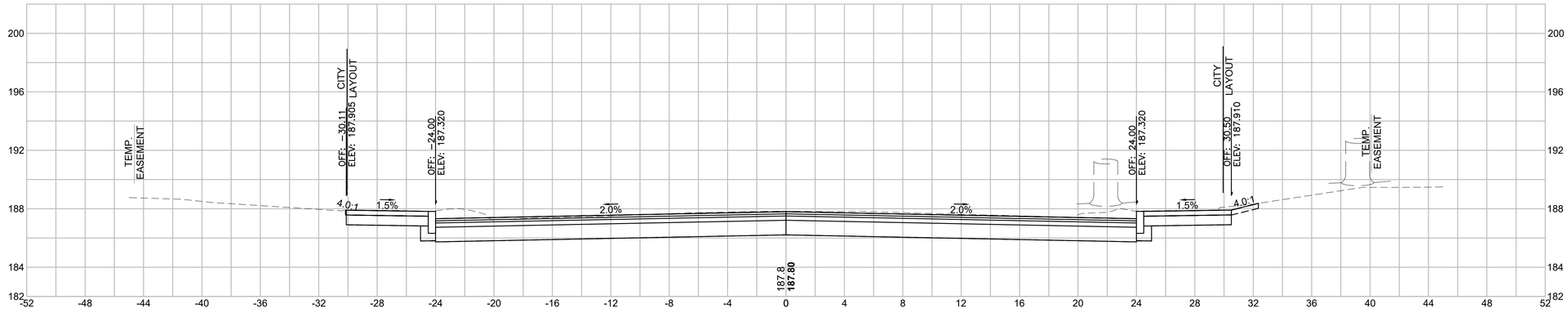
SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	321	358
	PROJECT FILE NO. 608717		

CROSS SECTIONS - DICKINSON STREET

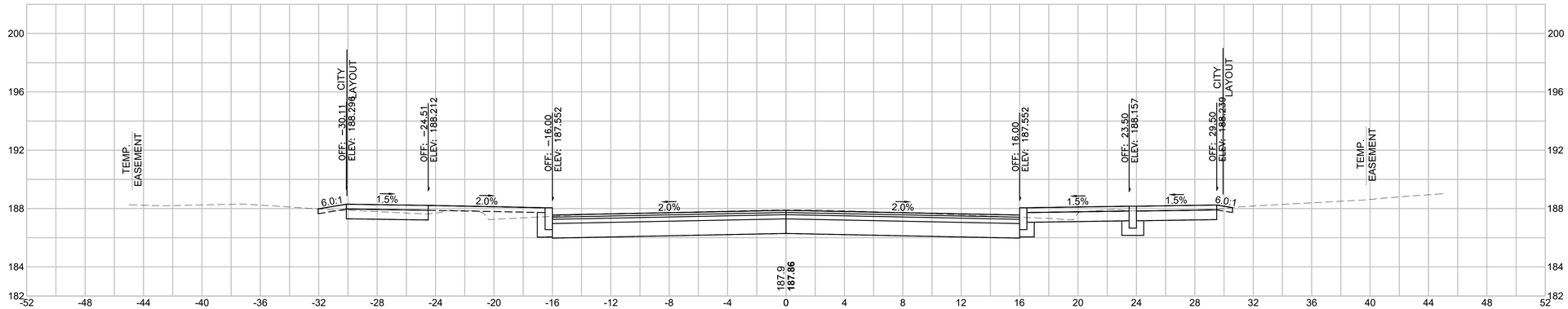
Plotted on 5-May-2023 2:50 PM
20121457A70_XSC01_DICKINSON.DWG

402+50



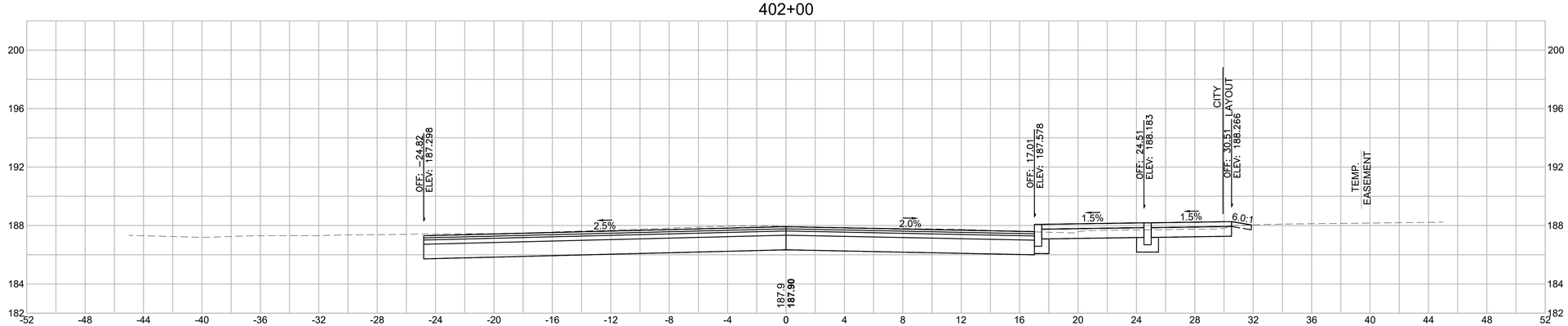
Total Volume at Station 402+50.00	
Cut Area (SF)	**96.69**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**75.1**
Fill Vol (CF)	**0.9**
Cum Cut Vol (CF)	**483.0**
Cum Fill Vol (CF)	**1.7**
Net Vol (CF)	**481.3**

402+25



Total Volume at Station 402+25.00	
Cut Area (SF)	**65.52**
Fill Area (SF)	**1.85**
Cut Vol (CF)	**70.1**
Fill Vol (CF)	**0.9**
Cum Cut Vol (CF)	**407.9**
Cum Fill Vol (CF)	**0.9**
Net Vol (CF)	**407.1**

402+00



Total Volume at Station 402+00.00	
Cut Area (SF)	**85.94**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**88.1**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**337.8**
Cum Fill Vol (CF)	**0.0**
Net Vol (CF)	**337.8**

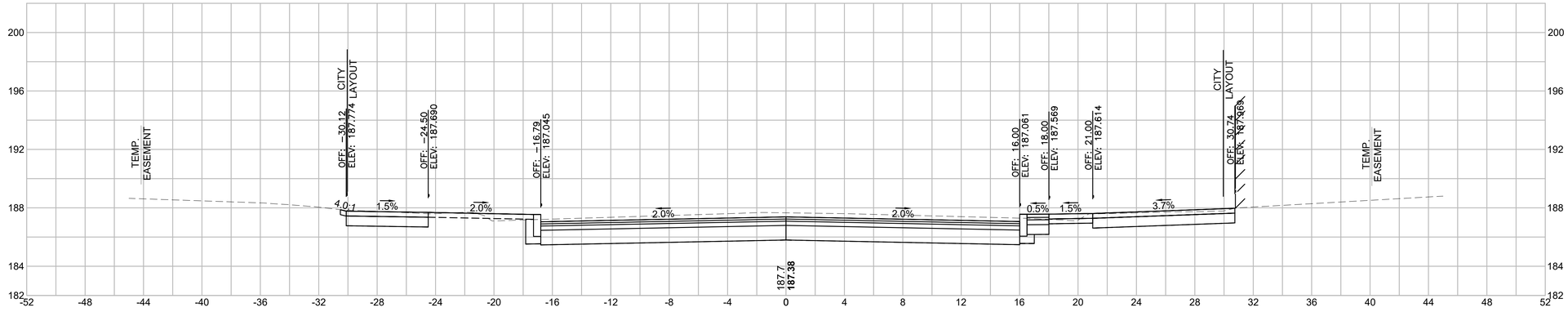
SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	322	358
PROJECT FILE NO.	608717		

CROSS SECTIONS - DICKINSON STREET

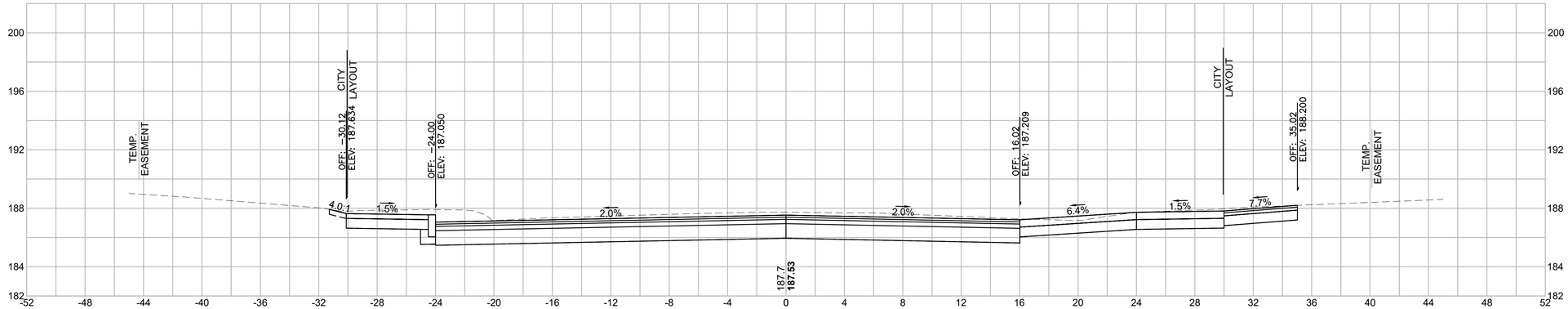
Plotted on 5-May-2023 2:51 PM
20121457A70_XSC01_DICKINSON.DWG

403+25



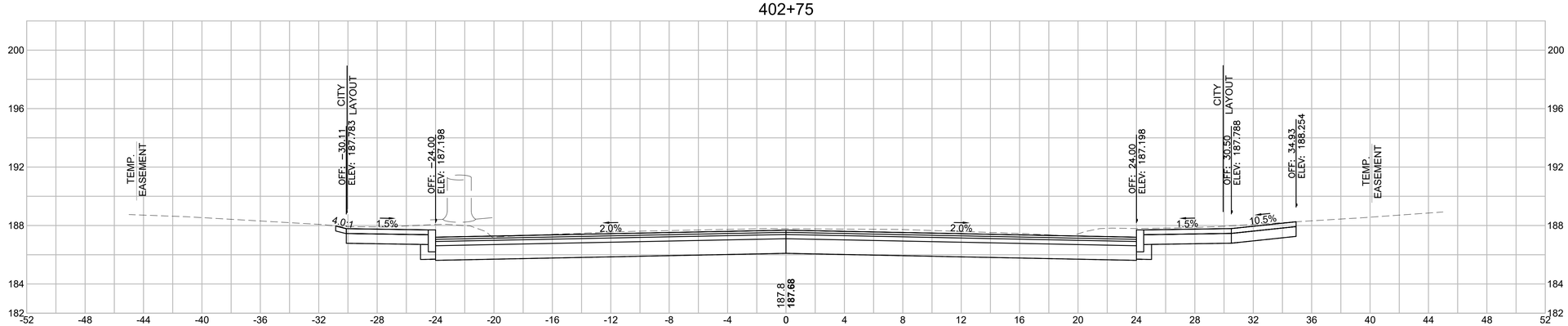
Total Volume at Station 403+25.00	
Cut Area (SF)	**87.88**
Fill Area (SF)	**0.28**
Cut Vol (CF)	**88.5**
Fill Vol (CF)	**0.1**
Cum Cut Vol (CF)	**763.1**
Cum Fill Vol (CF)	**1.8**
Net Vol (CF)	**761.2**

403+00



Total Volume at Station 403+00.00	
Cut Area (SF)	**103.19**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**97.3**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**674.6**
Cum Fill Vol (CF)	**1.7**
Net Vol (CF)	**672.9**

402+75



Total Volume at Station 402+75.00	
Cut Area (SF)	**106.94**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**94.3**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**577.3**
Cum Fill Vol (CF)	**1.7**
Net Vol (CF)	**575.6**

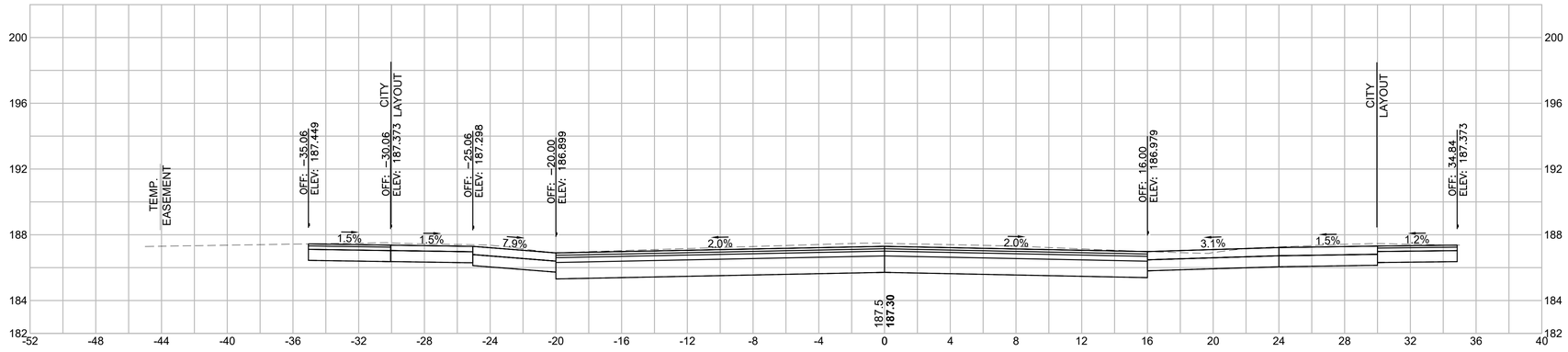
SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	323	358
	PROJECT FILE NO. 608717		

CROSS SECTIONS - DICKINSON STREET

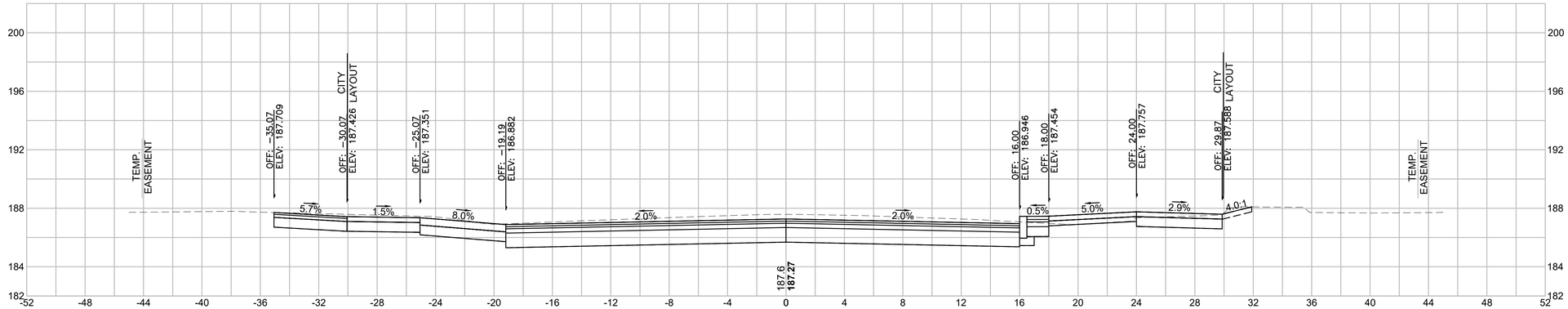
Plotted on 5-May-2023 2:51 PM
20121457A70_XSC01_DICKINSON.DWG

404+00



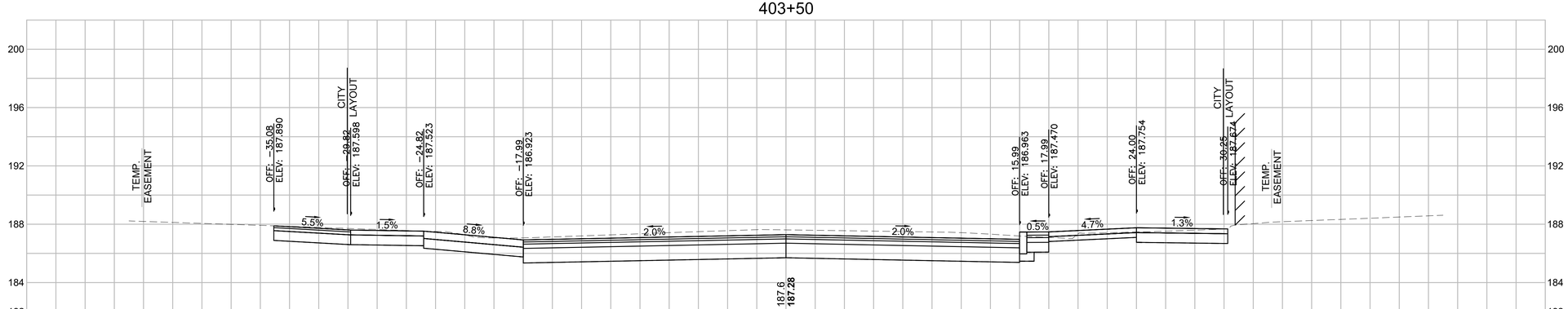
Total Volume at Station 404+00.00	
Cut Area (SF)	**102.33**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**89.6**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**1024.4**
Cum Fill Vol (CF)	**2.0**
Net Vol (CF)	**1022.4**

403+75



Total Volume at Station 403+75.00	
Cut Area (SF)	**91.23**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**86.6**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**934.8**
Cum Fill Vol (CF)	**2.0**
Net Vol (CF)	**932.8**

403+50



Total Volume at Station 403+50.00	
Cut Area (SF)	**95.91**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**85.1**
Fill Vol (CF)	**0.1**
Cum Cut Vol (CF)	**848.1**
Cum Fill Vol (CF)	**2.0**
Net Vol (CF)	**846.2**

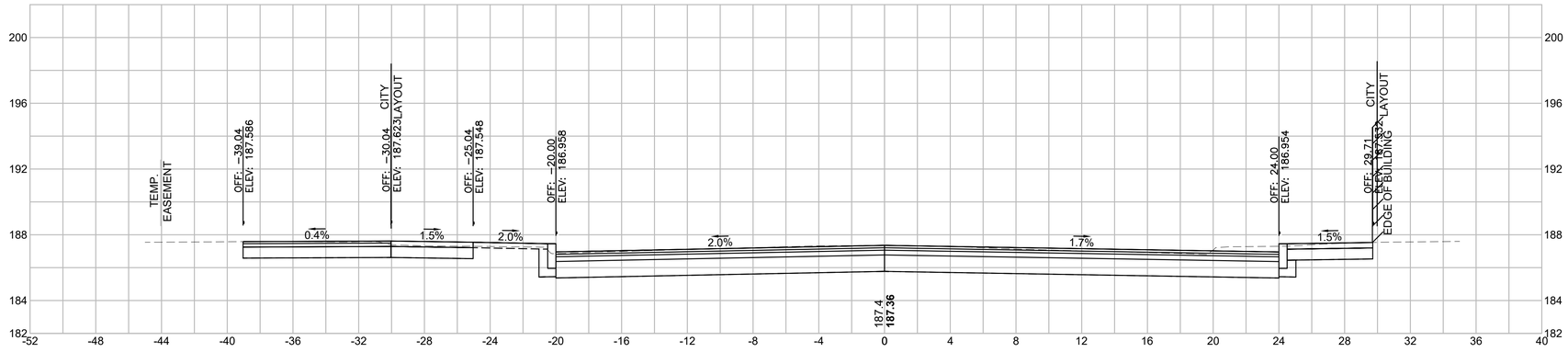
SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	324	358
	PROJECT FILE NO.	608717	

CROSS SECTIONS - DICKINSON STREET

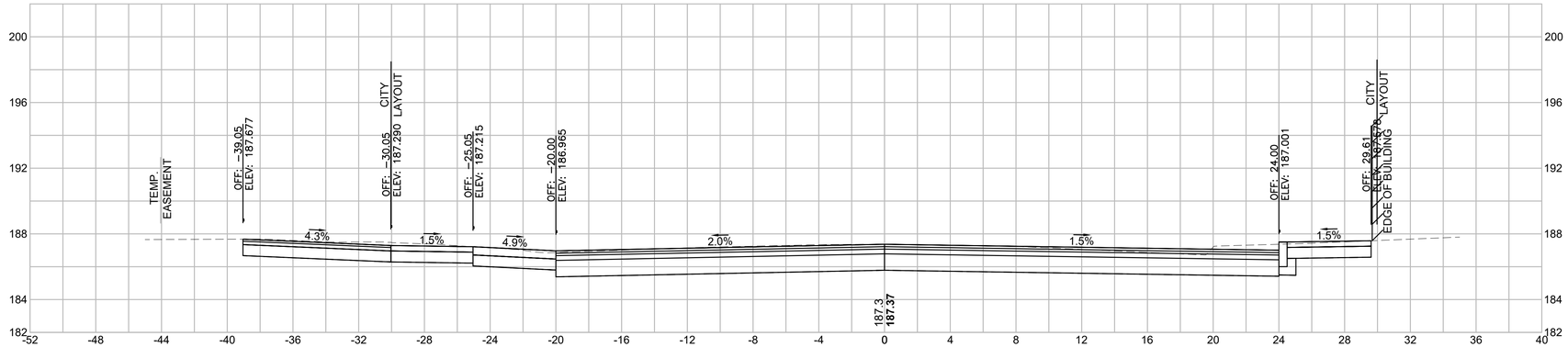
Plotted on 5-May-2023 2:51 PM
20121457A70_XSC01_DICKINSON.DWG

404+75



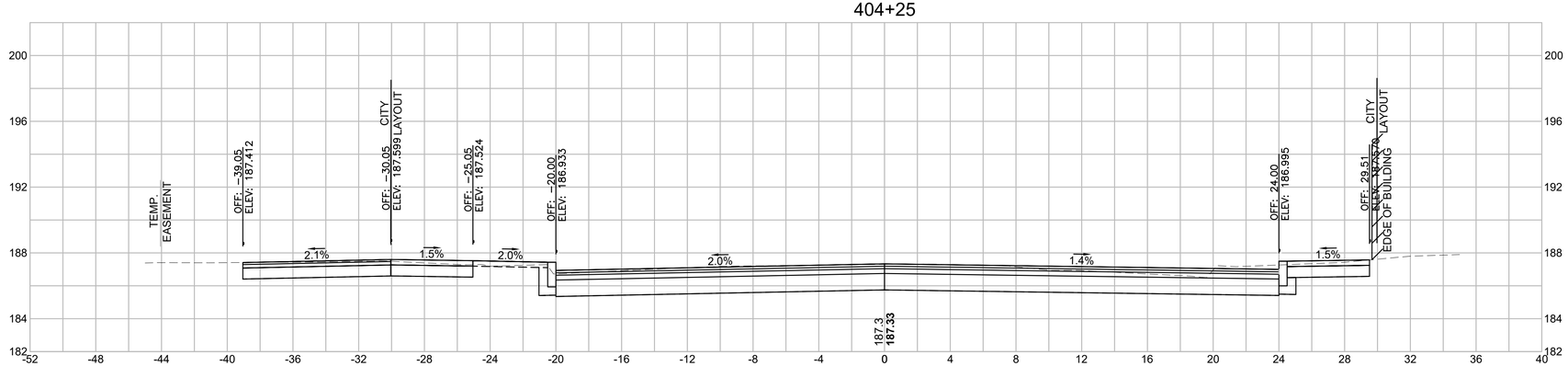
Total Volume at Station 404+75.00	
Cut Area (SF)	**89.66**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**85.9**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**1284.6**
Cum Fill Vol (CF)	**2.0**
Net Vol (CF)	**1282.6**

404+50



Total Volume at Station 404+50.00	
Cut Area (SF)	**95.80**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**85.7**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**1198.7**
Cum Fill Vol (CF)	**2.0**
Net Vol (CF)	**1196.8**

404+25



Total Volume at Station 404+25.00	
Cut Area (SF)	**89.21**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**88.7**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**1113.1**
Cum Fill Vol (CF)	**2.0**
Net Vol (CF)	**1111.1**

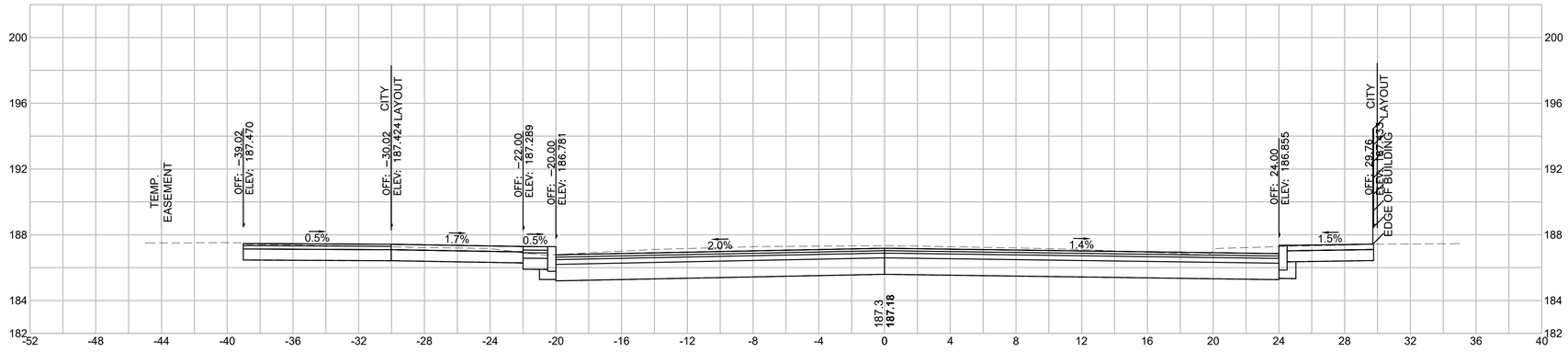
SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	325	358
	PROJECT FILE NO. 608717		

CROSS SECTIONS - DICKINSON STREET

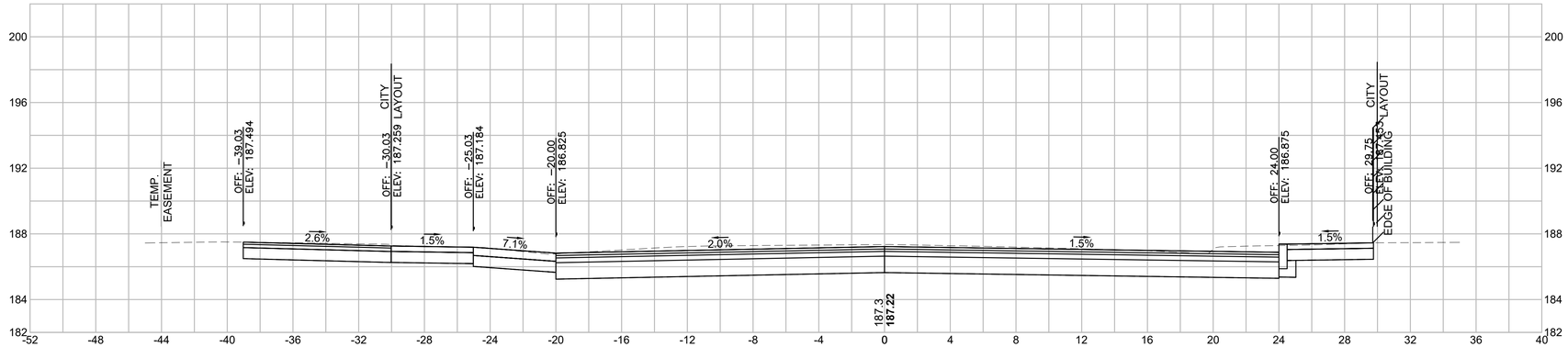
Plotted on 5-May-2023 2:51 PM
20121457A70_XSC01_DICKINSON.DWG

405+25



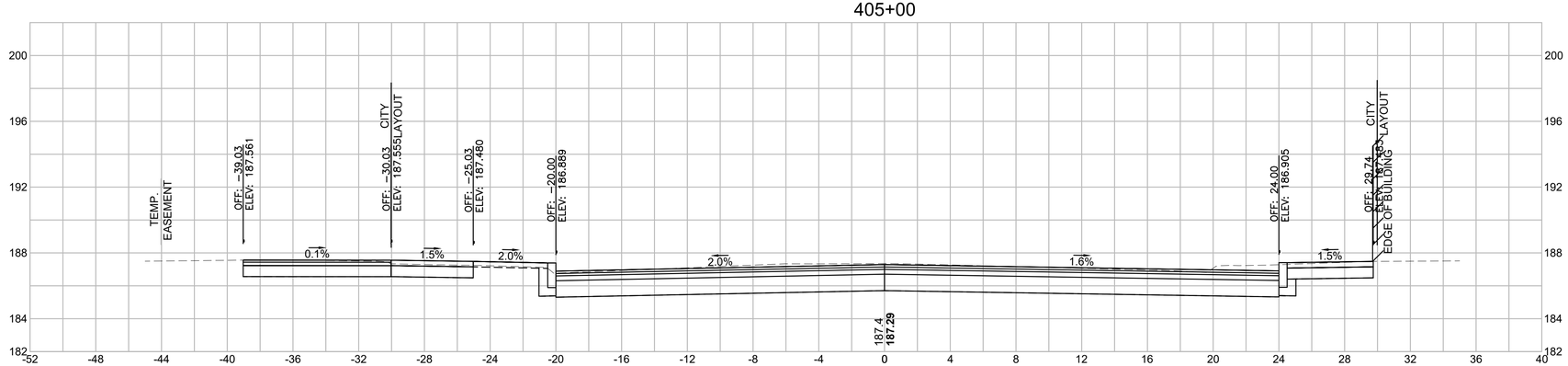
Total Volume at Station 405+25.00	
Cut Area (SF)	**99.93**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**37.1**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**1459.5**
Cum Fill Vol (CF)	**2.0**
Net Vol (CF)	**1457.5**

405+15



Total Volume at Station 405+15.00	
Cut Area (SF)	**100.21**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**53.5**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**1422.5**
Cum Fill Vol (CF)	**2.0**
Net Vol (CF)	**1420.5**

405+00



Total Volume at Station 405+00.00	
Cut Area (SF)	**92.51**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**84.3**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**1368.9**
Cum Fill Vol (CF)	**2.0**
Net Vol (CF)	**1367.0**

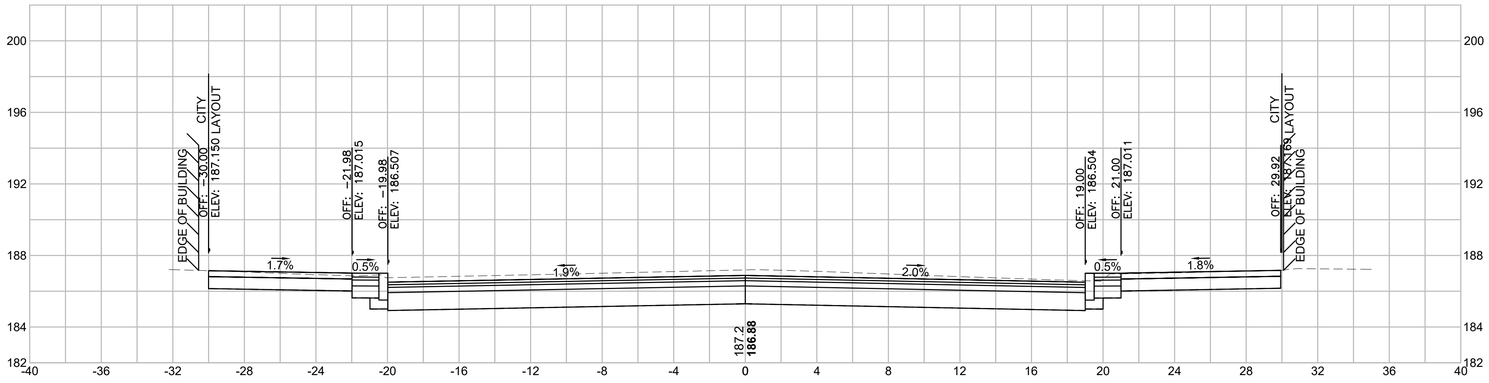
SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	326	358
	PROJECT FILE NO.	608717	

CROSS SECTIONS - DICKINSON STREET

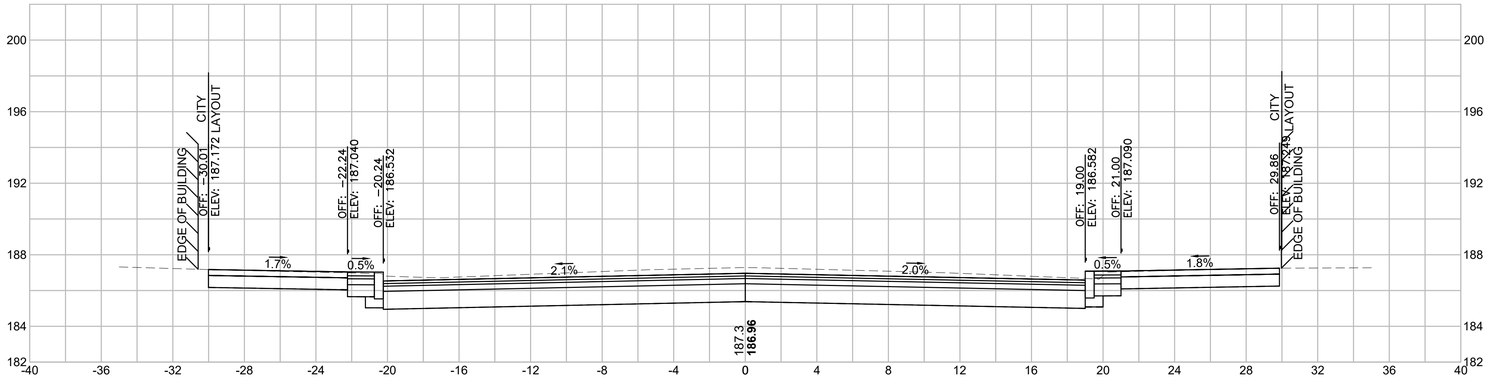
Plotted on 5-May-2023 2:51 PM
20121457A70_XSC01_DICKINSON.DWG

406+00



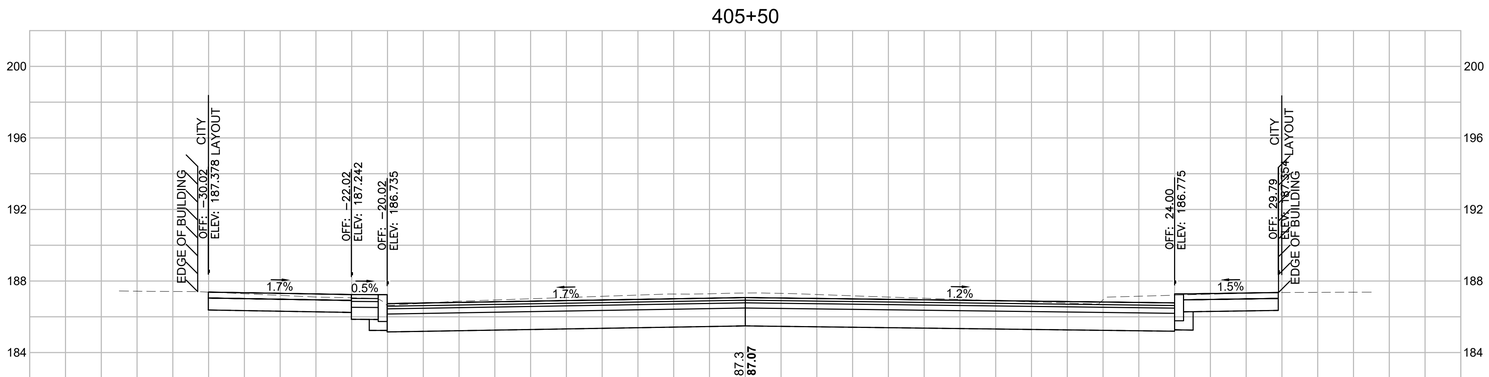
Total Volume at Station 406+00.00	
Cut Area (SF)	**95.62**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**90.1**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**1732.3**
Cum Fill Vol (CF)	**2.0**
Net Vol (CF)	**1730.4**

405+75



Total Volume at Station 405+75.00	
Cut Area (SF)	**98.98**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**91.1**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**1642.3**
Cum Fill Vol (CF)	**2.0**
Net Vol (CF)	**1640.3**

405+50



Total Volume at Station 405+50.00	
Cut Area (SF)	**97.90**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**91.6**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**1551.1**
Cum Fill Vol (CF)	**2.0**
Net Vol (CF)	**1549.1**

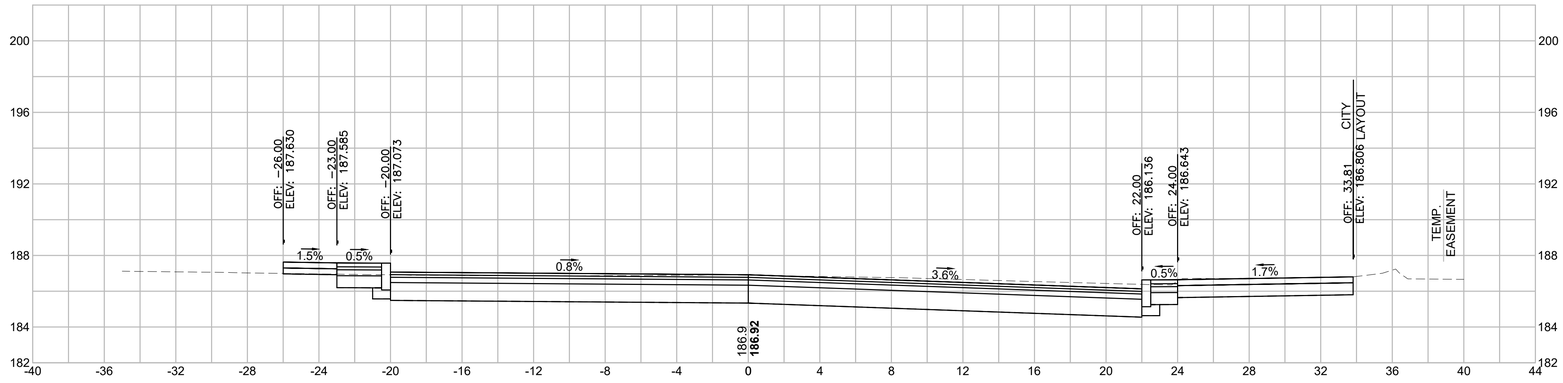
SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	327	358
PROJECT FILE NO.	608717		

CROSS SECTIONS - DICKINSON STREET

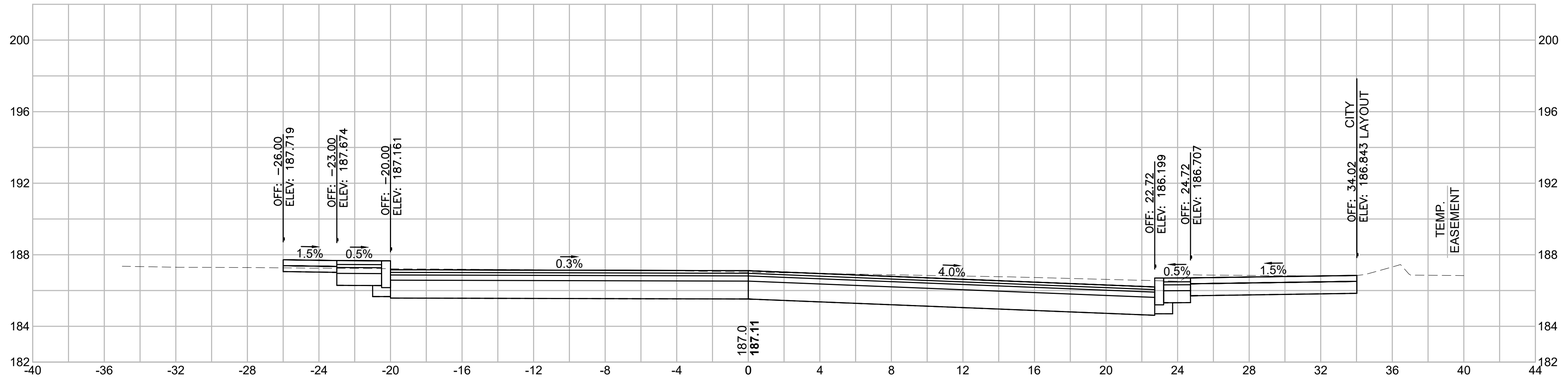
Plotted on 5-May-2023 2:52 PM
20121457A70_XSC01_DICKINSON.DWG

408+00



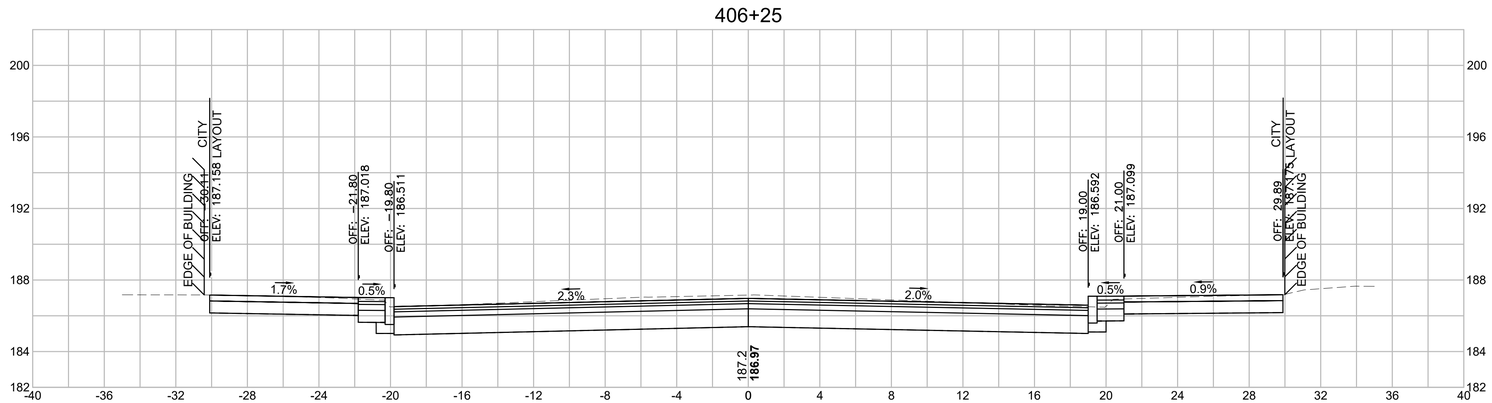
Total Volume at Station 408+00.00	
Cut Area (SF)	**90.33**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**87.0**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**2430.9**
Cum Fill Vol (CF)	**2.0**
Net Vol (CF)	**2429.0**

407+75



Total Volume at Station 407+75.00	
Cut Area (SF)	**97.68**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**525.0**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**2343.9**
Cum Fill Vol (CF)	**2.0**
Net Vol (CF)	**2341.9**

406+25



Total Volume at Station 406+25.00	
Cut Area (SF)	**91.32**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**86.5**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**1818.9**
Cum Fill Vol (CF)	**2.0**
Net Vol (CF)	**1816.9**

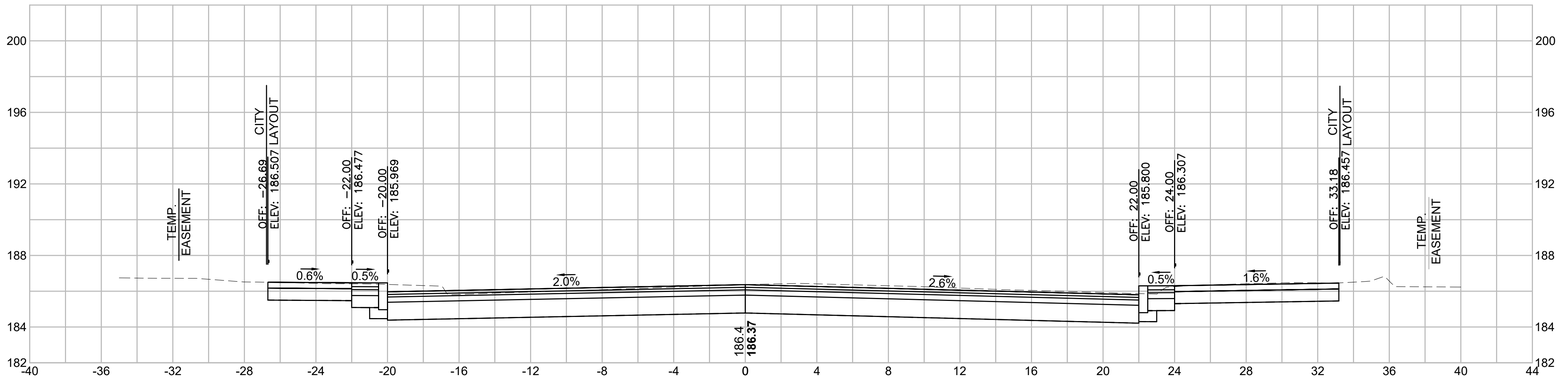
SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	328	358
PROJECT FILE NO.	608717		

CROSS SECTIONS - DICKINSON STREET

Plotted on 5-May-2023 2:52 PM
20121457A70_XSC01_DICKINSON.DWG

408+75



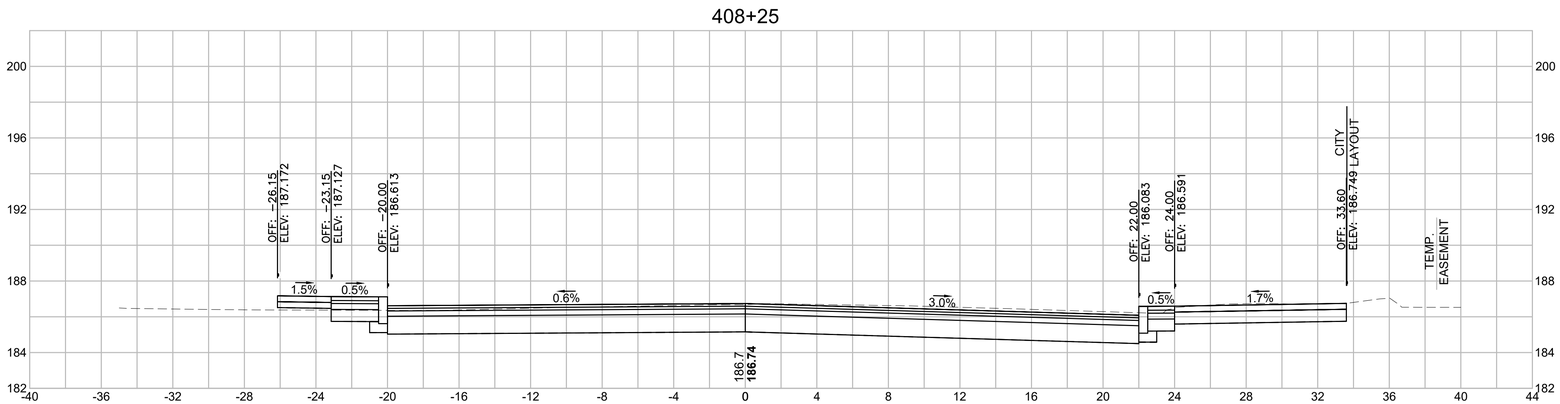
Total Volume at Station 408+75.00	
Cut Area (SF)	**90.30**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**82.6**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**2672.5**
Cum Fill Vol (CF)	**2.4**
Net Vol (CF)	**2670.1**

408+50



Total Volume at Station 408+50.00	
Cut Area (SF)	**88.03**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**79.0**
Fill Vol (CF)	**0.2**
Cum Cut Vol (CF)	**2589.9**
Cum Fill Vol (CF)	**2.4**
Net Vol (CF)	**2587.5**

408+25



Total Volume at Station 408+25.00	
Cut Area (SF)	**82.52**
Fill Area (SF)	**0.46**
Cut Vol (CF)	**80.0**
Fill Vol (CF)	**0.2**
Cum Cut Vol (CF)	**2511.0**
Cum Fill Vol (CF)	**2.2**
Net Vol (CF)	**2508.8**

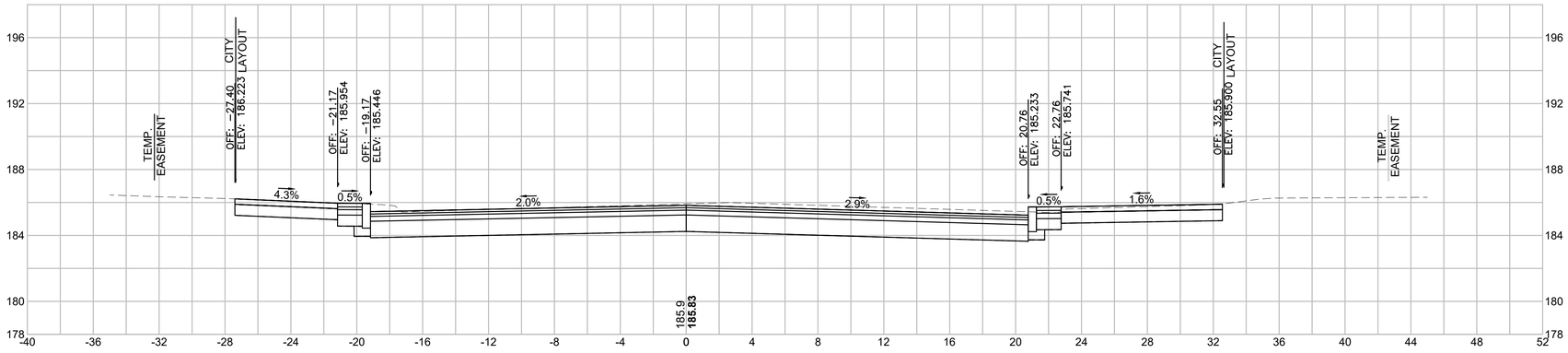
SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	329	358
PROJECT FILE NO.	608717		

CROSS SECTIONS - DICKINSON STREET

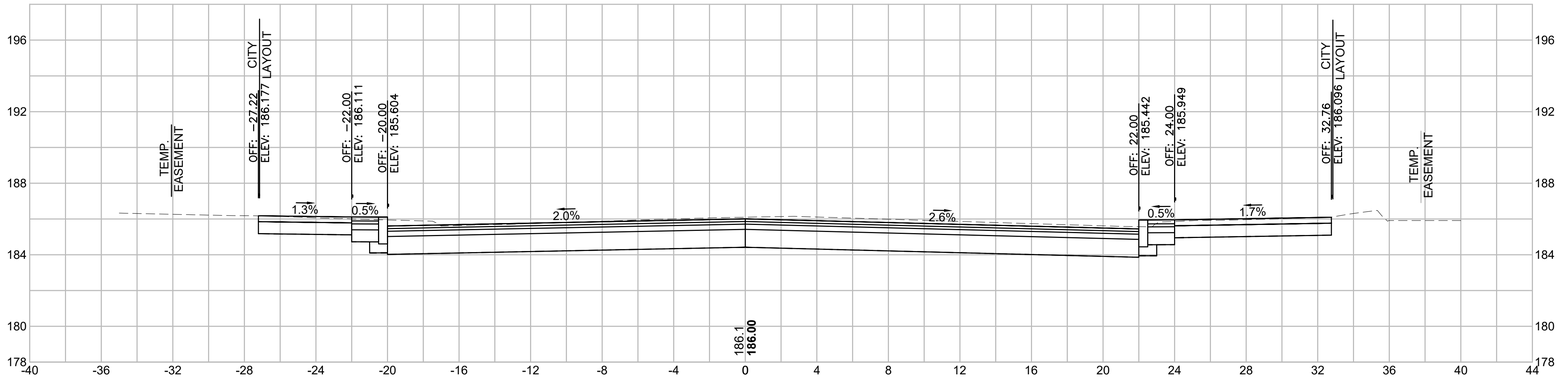
Plotted on 5-May-2023 2:52 PM
20121457A70_XSC01_DICKINSON.DWG

409+50



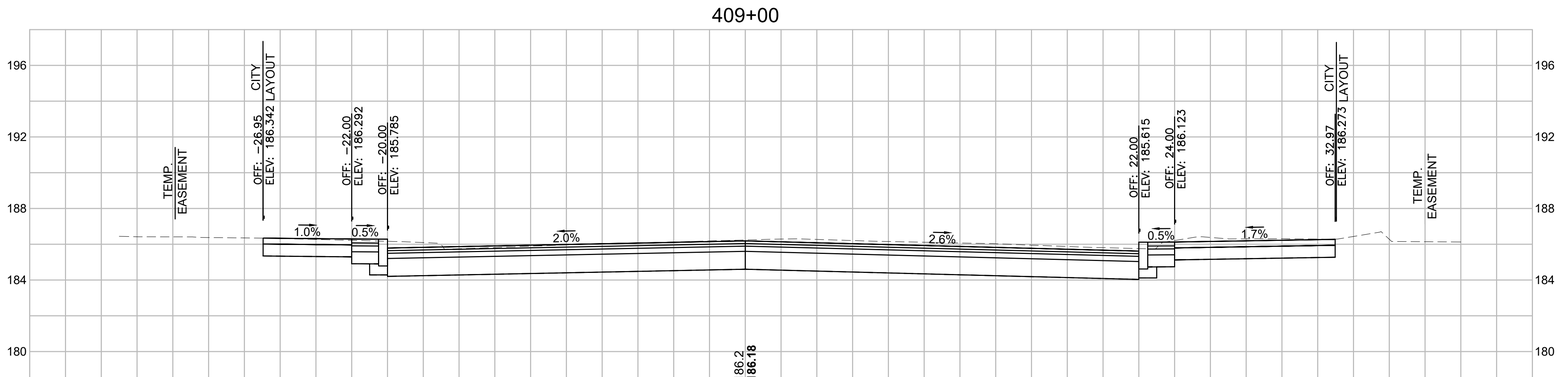
Total Volume at Station 409+50.00	
Cut Area (SF)	**92.82**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**84.9**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**2927.1**
Cum Fill Vol (CF)	**2.4**
Net Vol (CF)	**2924.7**

409+25



Total Volume at Station 409+25.00	
Cut Area (SF)	**90.60**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**84.9**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**2842.2**
Cum Fill Vol (CF)	**2.4**
Net Vol (CF)	**2839.8**

409+00



Total Volume at Station 409+00.00	
Cut Area (SF)	**92.86**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**84.8**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**2757.3**
Cum Fill Vol (CF)	**2.4**
Net Vol (CF)	**2754.9**

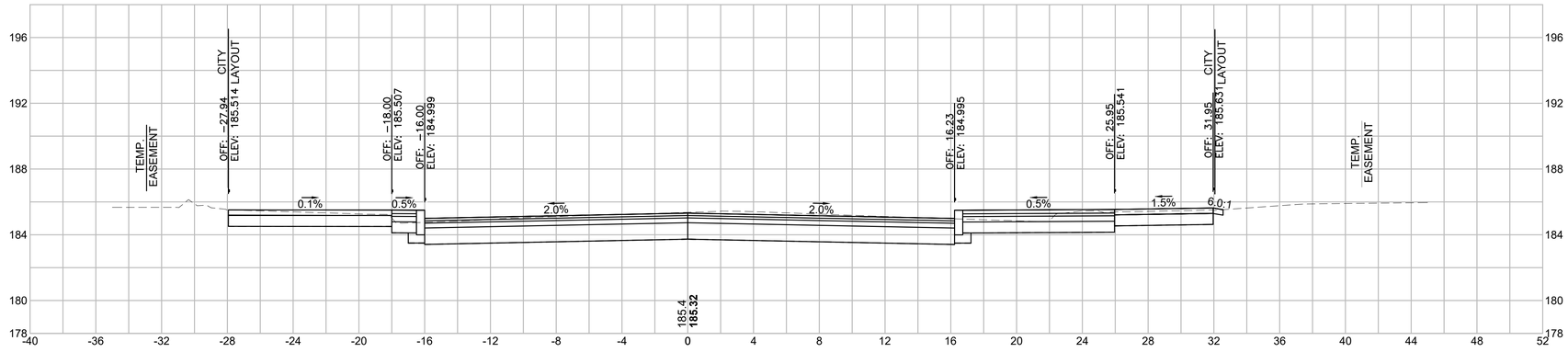
SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	330	358
	PROJECT FILE NO.	608717	

CROSS SECTIONS - DICKINSON STREET

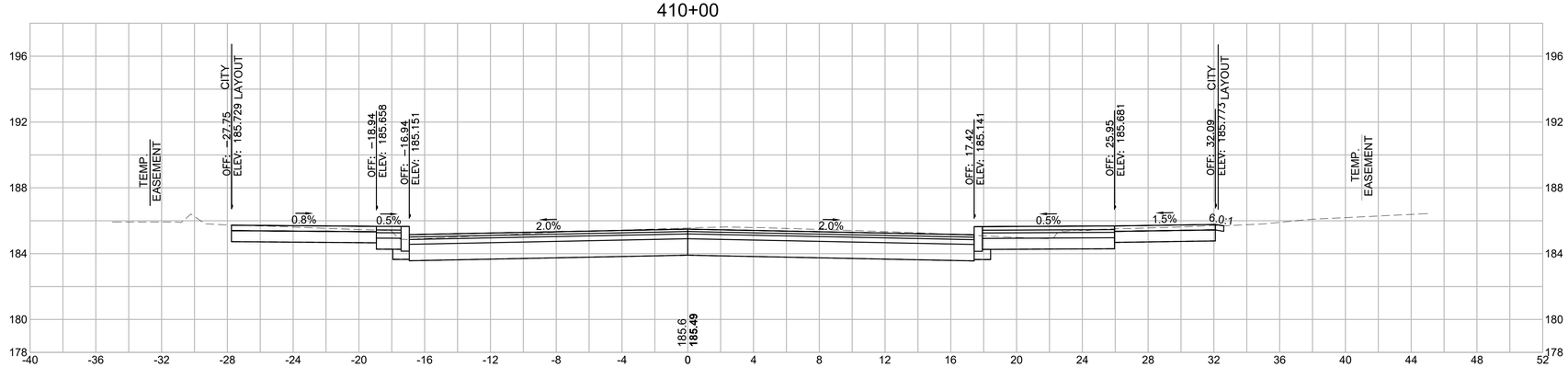
Plotted on 5-May-2023 2:52 PM
20121457A70_XSC01_DICKINSON.DWG

410+25



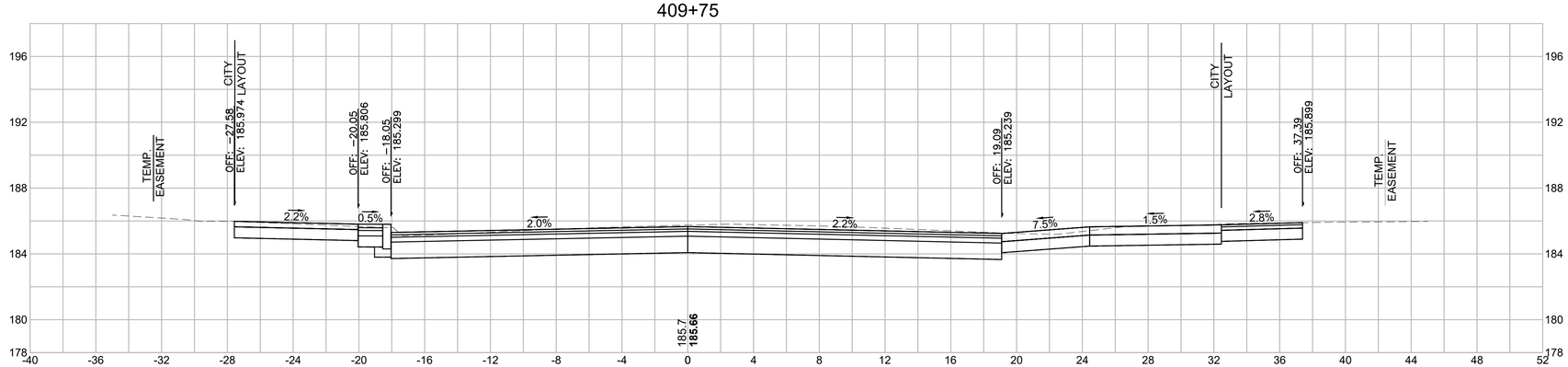
Total Volume at Station 410+25.00	
Cut Area (SF)	**78.67**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**73.7**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**3165.0**
Cum Fill Vol (CF)	**2.4**
Net Vol (CF)	**3162.6**

410+00



Total Volume at Station 410+00.00	
Cut Area (SF)	**80.47**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**79.2**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**3091.3**
Cum Fill Vol (CF)	**2.4**
Net Vol (CF)	**3088.9**

409+75



Total Volume at Station 409+75.00	
Cut Area (SF)	**90.66**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**84.9**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**3012.1**
Cum Fill Vol (CF)	**2.4**
Net Vol (CF)	**3009.7**

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	331	358
	PROJECT FILE NO.	608717	

CROSS SECTIONS - DICKINSON STREET

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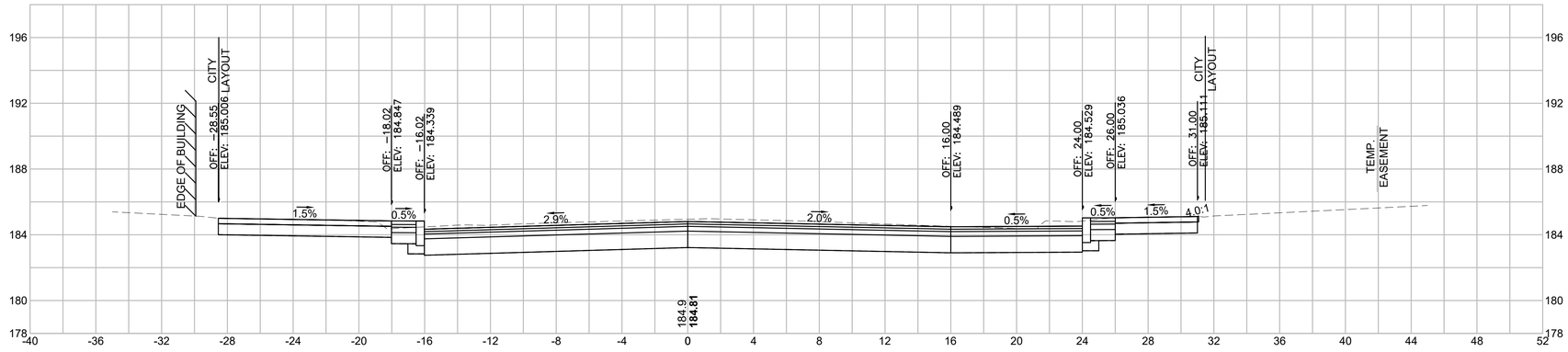
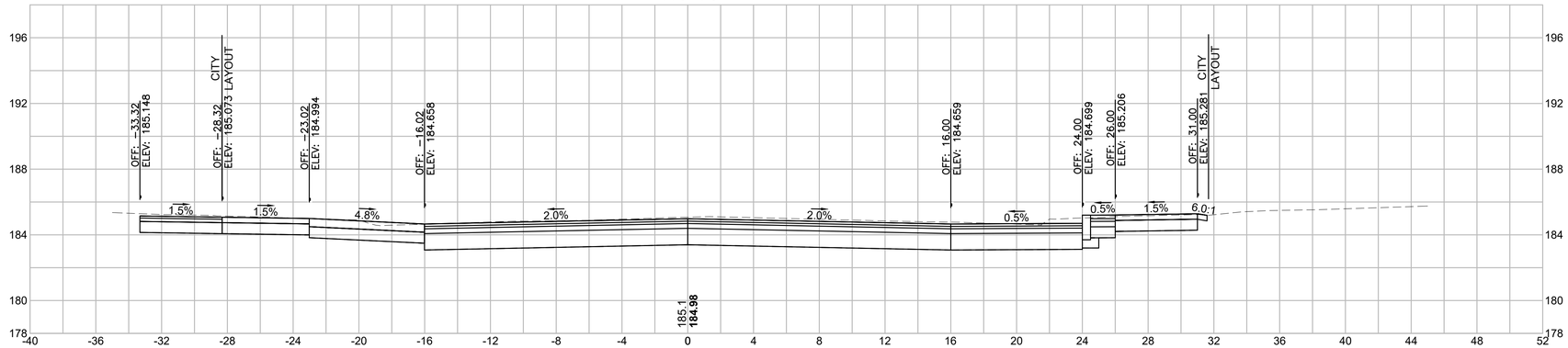
20121457A70_XSC01_DICKINSON.DWG

411+00



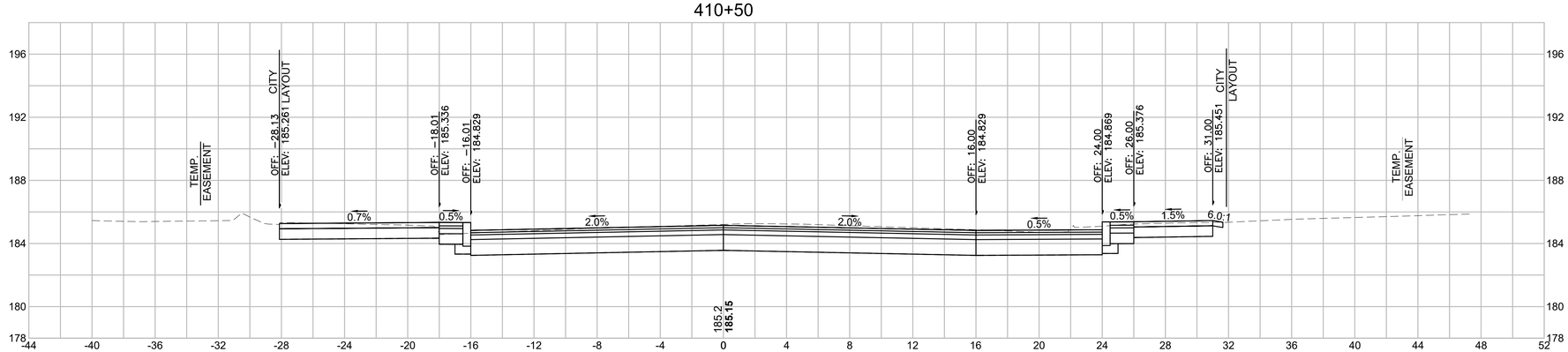
Total Volume at Station 411+00.00	
Cut Area (SF)	**95.09**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**87.4**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**3413.0**
Cum Fill Vol (CF)	**2.4**
Net Vol (CF)	**3410.6**

410+75



Total Volume at Station 410+75.00	
Cut Area (SF)	**93.63**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**83.8**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**3325.6**
Cum Fill Vol (CF)	**2.4**
Net Vol (CF)	**3323.2**

410+50



Total Volume at Station 410+50.00	
Cut Area (SF)	**87.32**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**76.8**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**3241.8**
Cum Fill Vol (CF)	**2.4**
Net Vol (CF)	**3239.4**

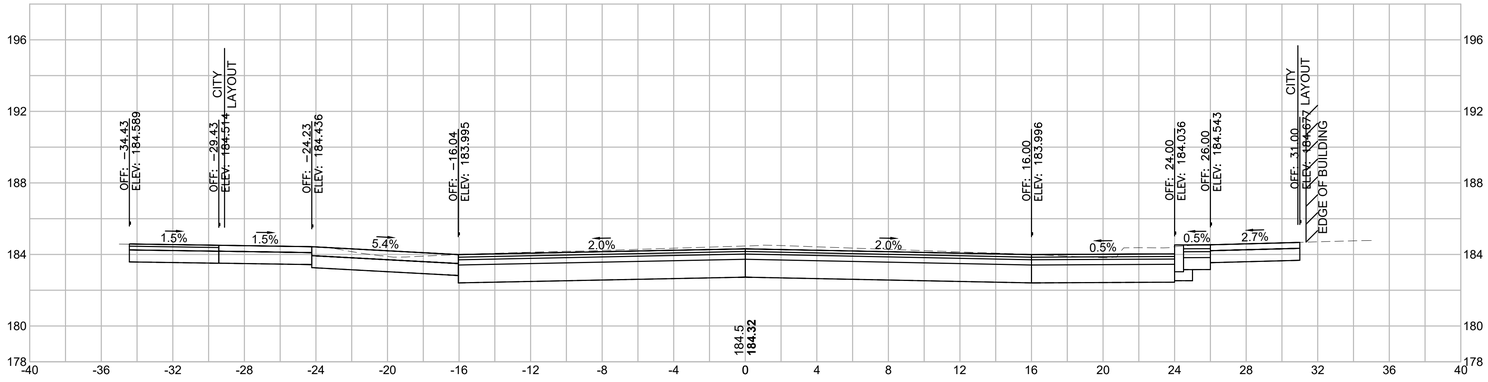
SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	332	358
	PROJECT FILE NO.	608717	

CROSS SECTIONS - DICKINSON STREET

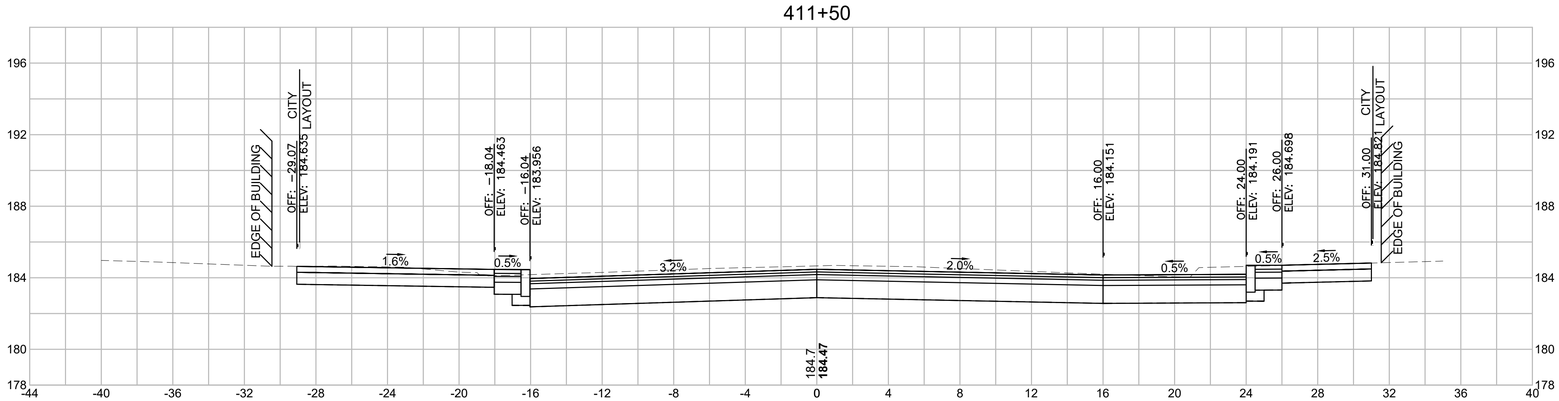
Plotted on 5-May-2023 2:52 PM
20121457A70_XSC01_DICKINSON.DWG

411+75



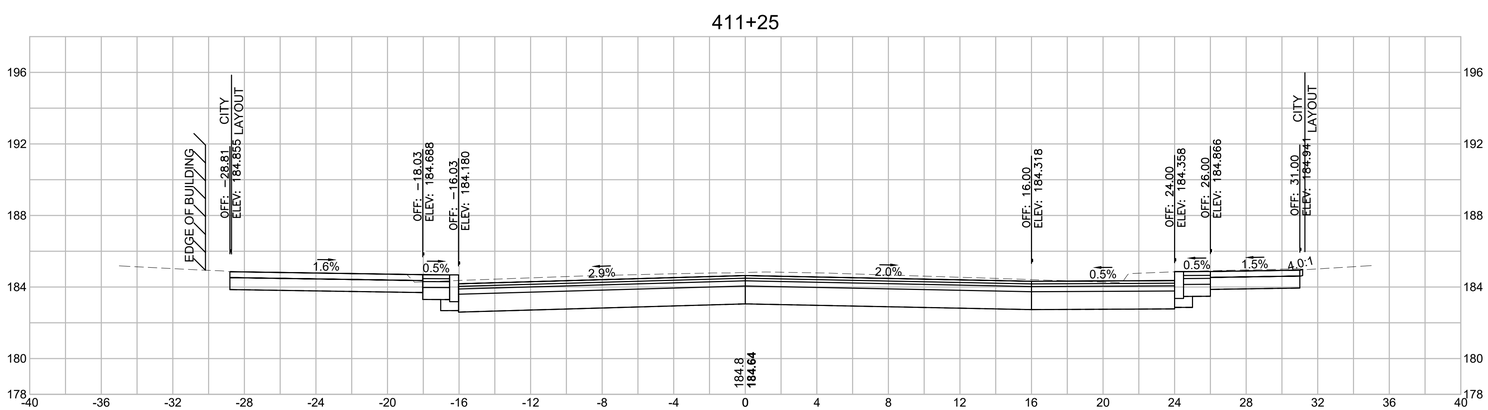
Total Volume at Station 411+75.00	
Cut Area (SF)	**98.60**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**91.5**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**3685.5**
Cum Fill Vol (CF)	**2.4**
Net Vol (CF)	**3683.1**

411+50



Total Volume at Station 411+50.00	
Cut Area (SF)	**99.02**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**91.4**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**3594.0**
Cum Fill Vol (CF)	**2.4**
Net Vol (CF)	**3591.6**

411+25



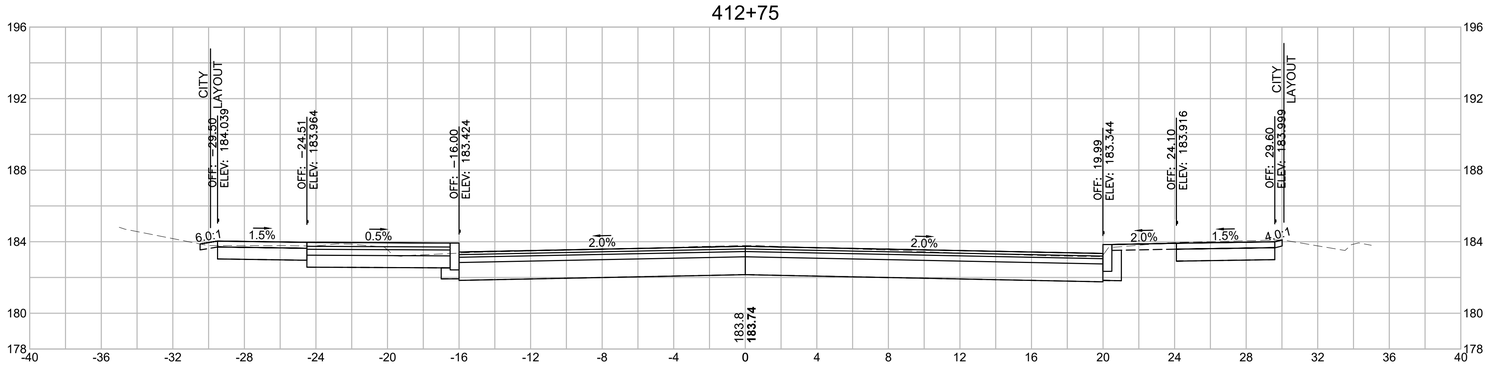
Total Volume at Station 411+25.00	
Cut Area (SF)	**98.43**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**89.6**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**3502.6**
Cum Fill Vol (CF)	**2.4**
Net Vol (CF)	**3500.2**

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

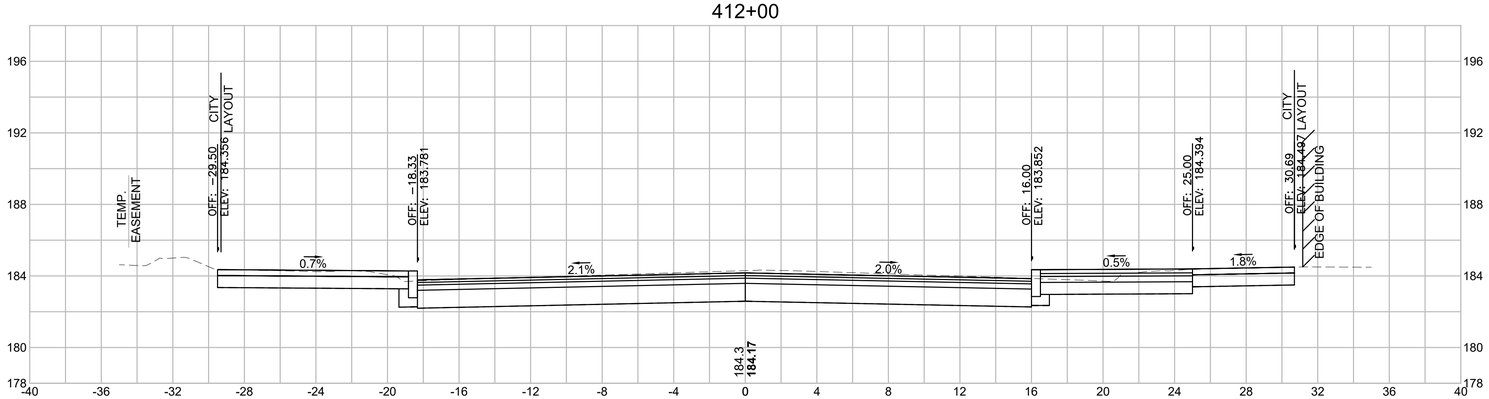
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	333	358
PROJECT FILE NO.	608717		

CROSS SECTIONS - DICKINSON STREET

Plotted on 5-May-2023 2:52 PM
20121457A70_XSC01_DICKINSON.DWG



Total Volume at Station 412+75.00	
Cut Area (SF)	**141.86**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**482.9**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**4309.3**
Cum Fill Vol (CF)	**2.4**
Net Vol (CF)	**4306.9**



Total Volume at Station 412+00.00	
Cut Area (SF)	**205.81**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**140.9**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**3826.4**
Cum Fill Vol (CF)	**2.4**
Net Vol (CF)	**3824.0**

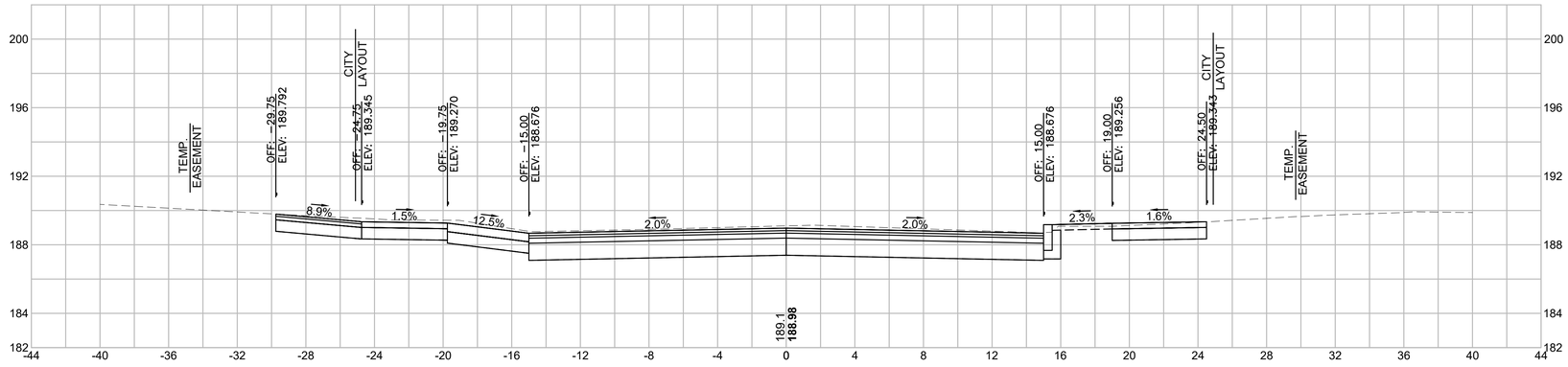
SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	334	358
PROJECT FILE NO.	608717		

CROSS SECTIONS - ORMOND STREET

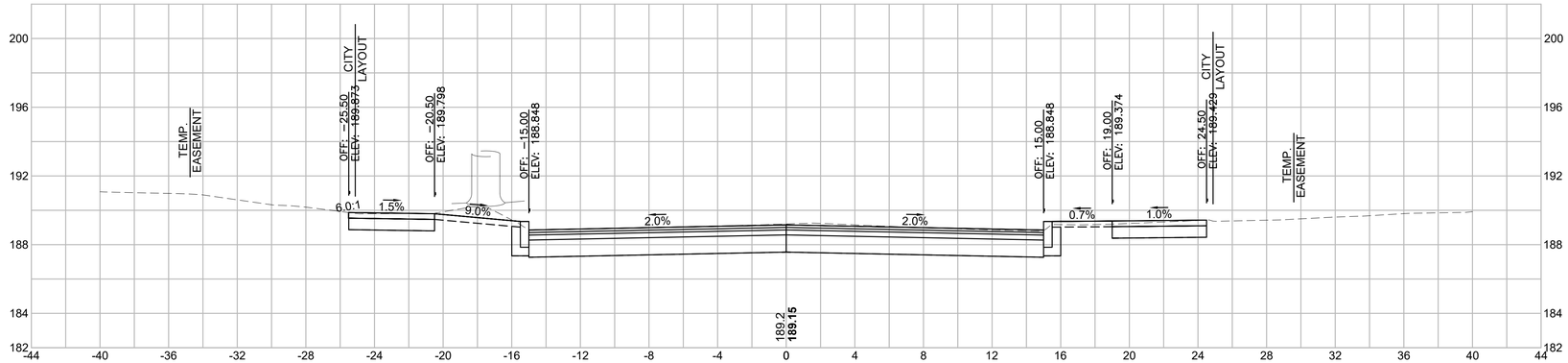
Plotted on 5-May-2023 2:54 PM
20121457A70_XSC01_ORMOND.DWG

501+00



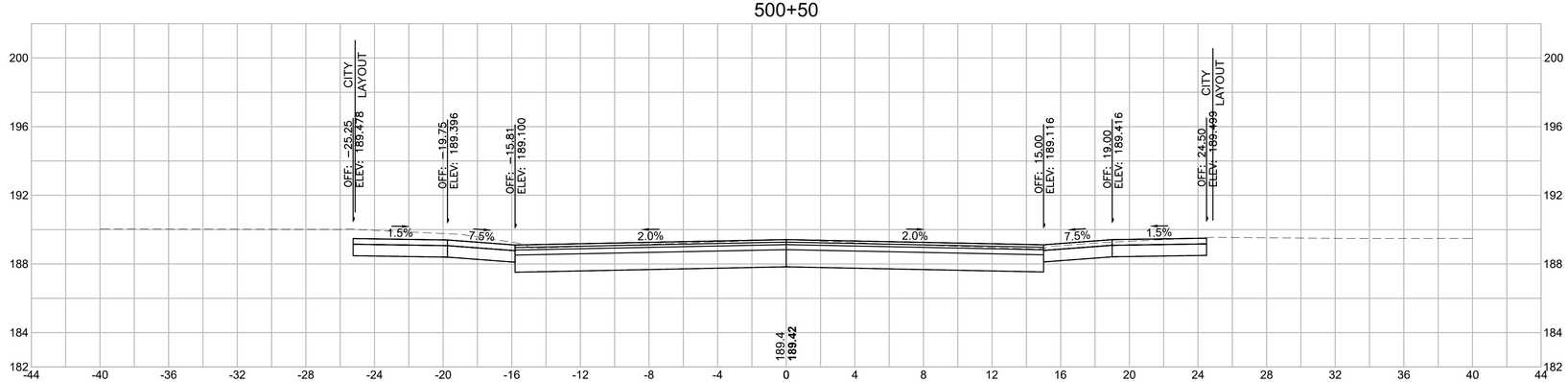
Total Volume at Station 501+00.00	
Cut Area (SF)	**75.66**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**68.5**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**138.4**
Cum Fill Vol (CF)	**0.0**
Net Vol (CF)	**138.4**

500+75



Total Volume at Station 500+75.00	
Cut Area (SF)	**72.39**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**69.8**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**69.8**
Cum Fill Vol (CF)	**0.0**
Net Vol (CF)	**69.8**

500+50



Total Volume at Station 500+50.00	
Cut Area (SF)	**78.48**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**0.0**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**0.0**
Cum Fill Vol (CF)	**0.0**
Net Vol (CF)	**0.0**

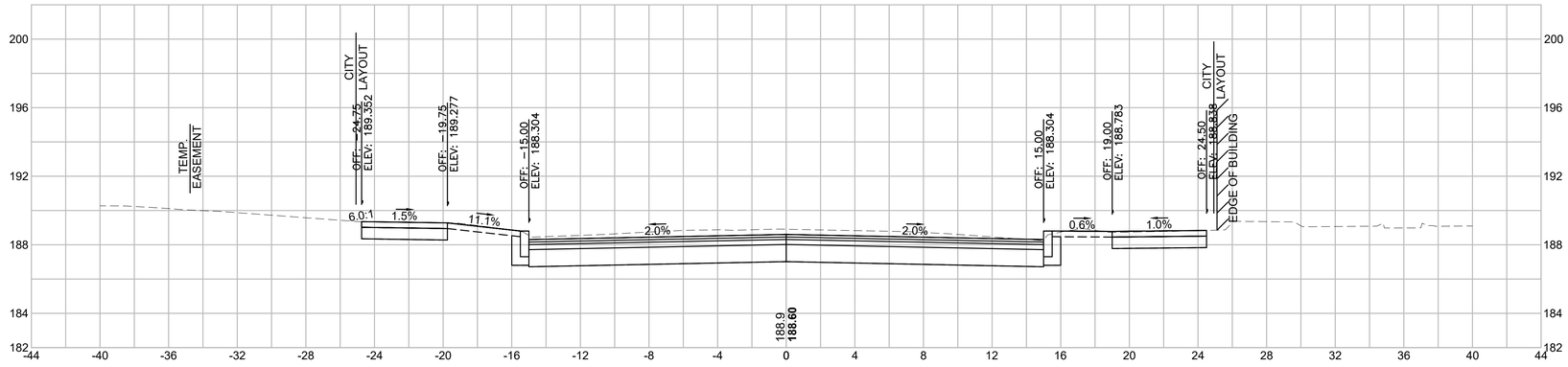
SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	335	358
	PROJECT FILE NO.	608717	

CROSS SECTIONS - ORMOND STREET

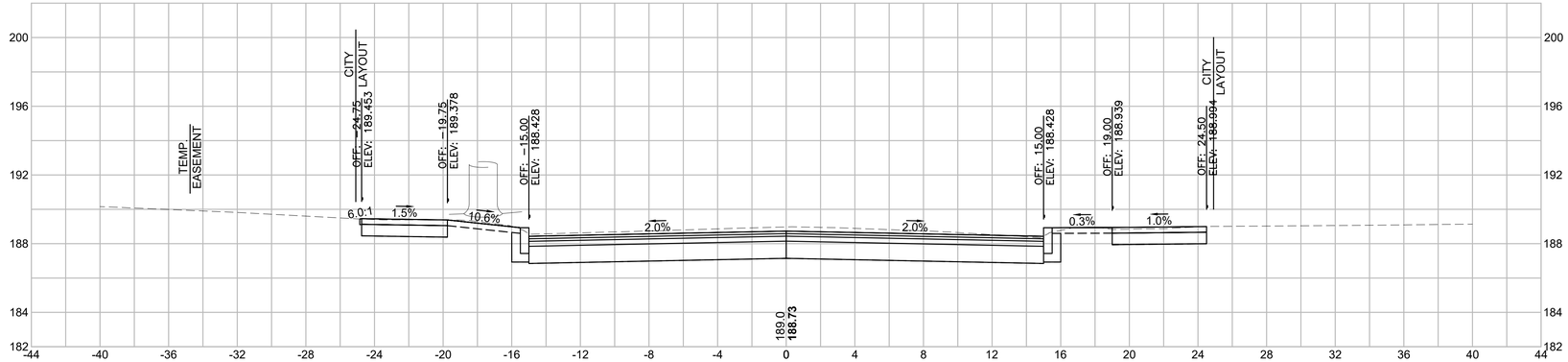
20121457A70_XSC01_ORMOND.DWG Plotted on 5-May-2023 2:55 PM

501+75



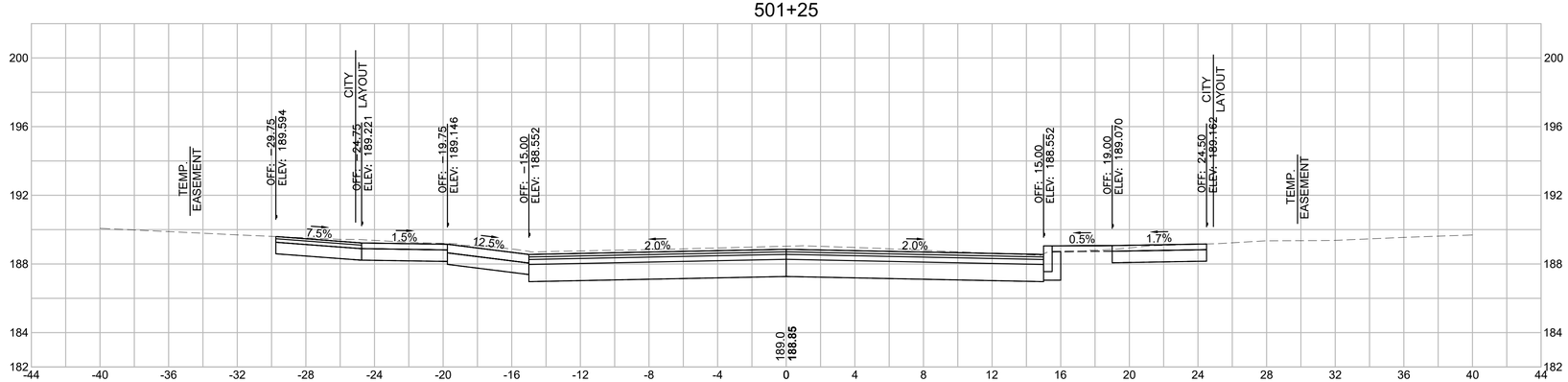
Total Volume at Station 501+75.00	
Cut Area (SF)	**74.99**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**67.9**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**342.0**
Cum Fill Vol (CF)	**0.0**
Net Vol (CF)	**342.0**

501+50



Total Volume at Station 501+50.00	
Cut Area (SF)	**71.61**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**66.9**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**274.1**
Cum Fill Vol (CF)	**0.0**
Net Vol (CF)	**274.1**

501+25



Total Volume at Station 501+25.00	
Cut Area (SF)	**72.96**
Fill Area (SF)	**0.02**
Cut Vol (CF)	**68.8**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**207.2**
Cum Fill Vol (CF)	**0.0**
Net Vol (CF)	**207.2**

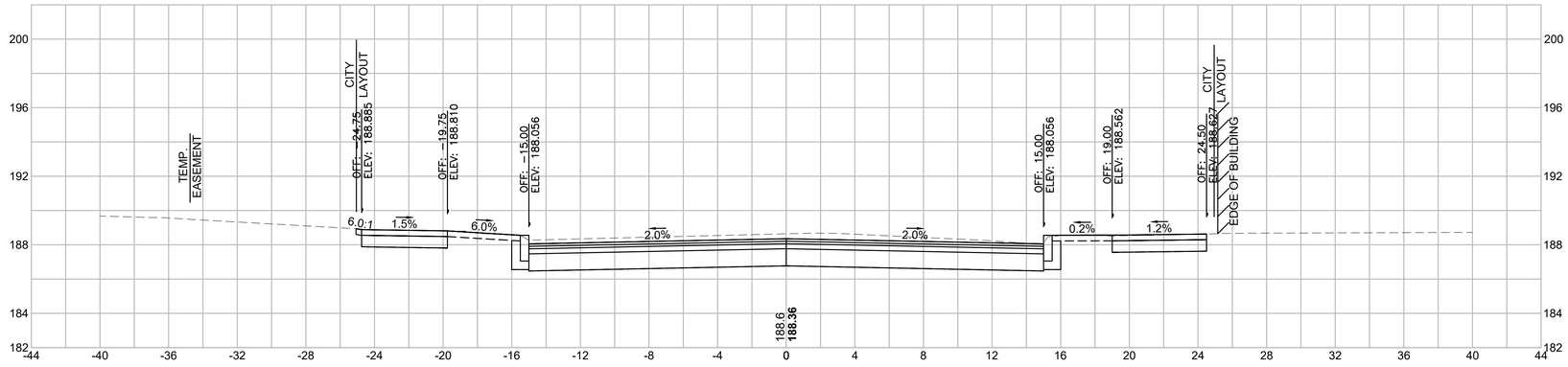
SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	336	358
PROJECT FILE NO.	608717		

CROSS SECTIONS - ORMOND STREET

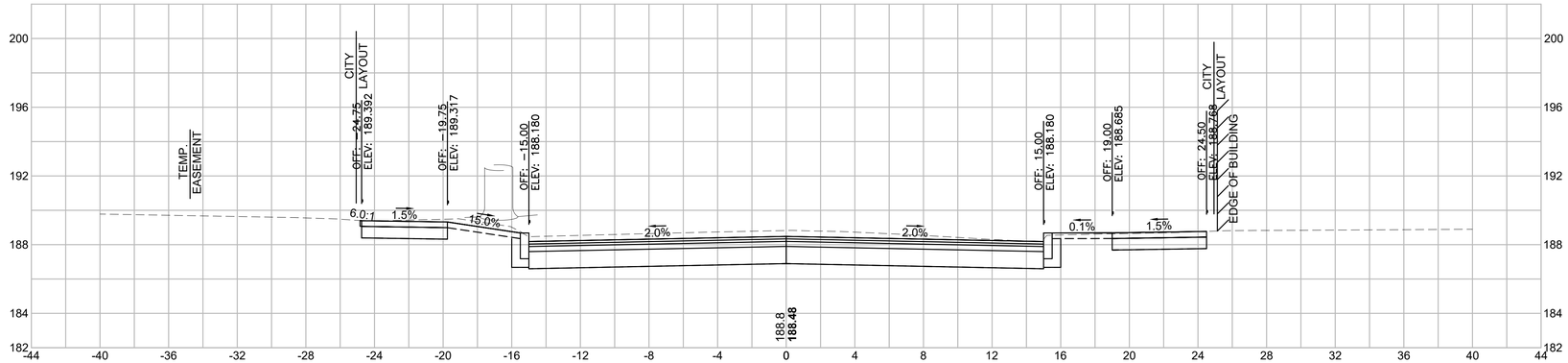
Plotted on 5-May-2023 2:55 PM
20121457A70_XSC01_ORMOND.DWG

502+25



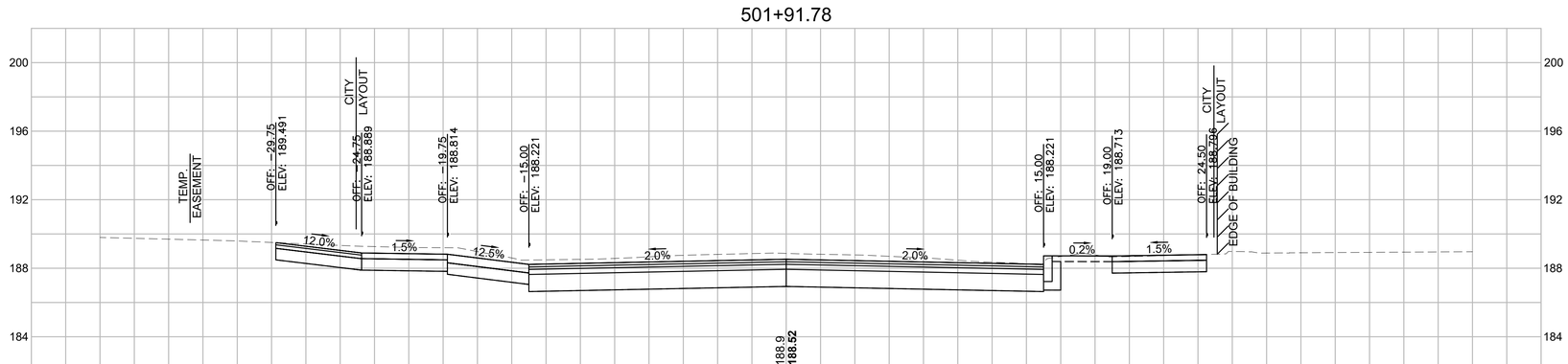
Total Volume at Station 502+25.00	
Cut Area (SF)	**74.94**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**70.4**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**485.0**
Cum Fill Vol (CF)	**0.0**
Net Vol (CF)	**485.0**

502+00



Total Volume at Station 502+00.00	
Cut Area (SF)	**77.07**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**24.1**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**414.6**
Cum Fill Vol (CF)	**0.0**
Net Vol (CF)	**414.6**

501+91.78



Total Volume at Station 501+91.78	
Cut Area (SF)	**81.20**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**48.5**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**390.5**
Cum Fill Vol (CF)	**0.0**
Net Vol (CF)	**390.5**

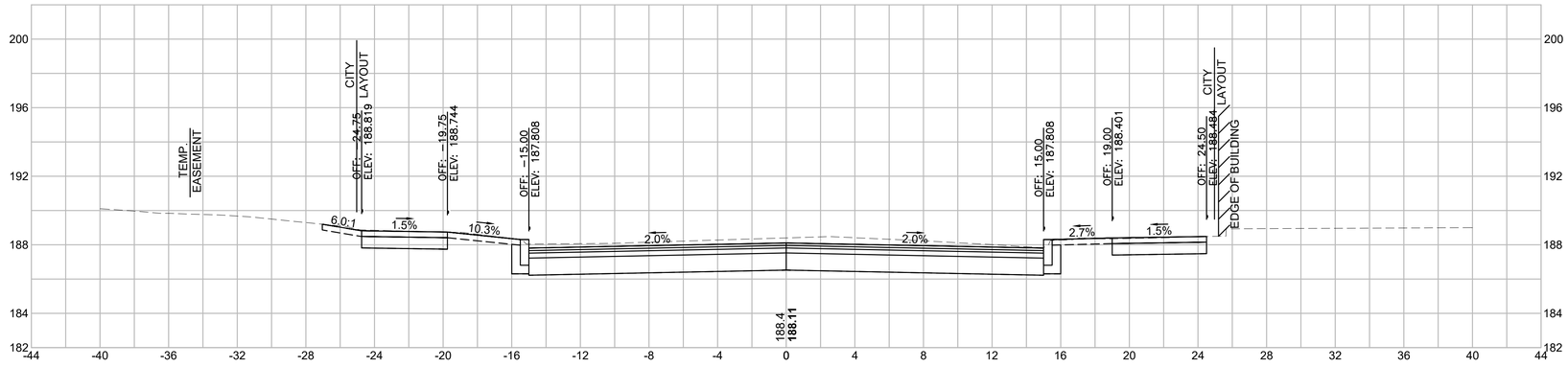
SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	337	358
PROJECT FILE NO.	608717		

CROSS SECTIONS - ORMOND STREET

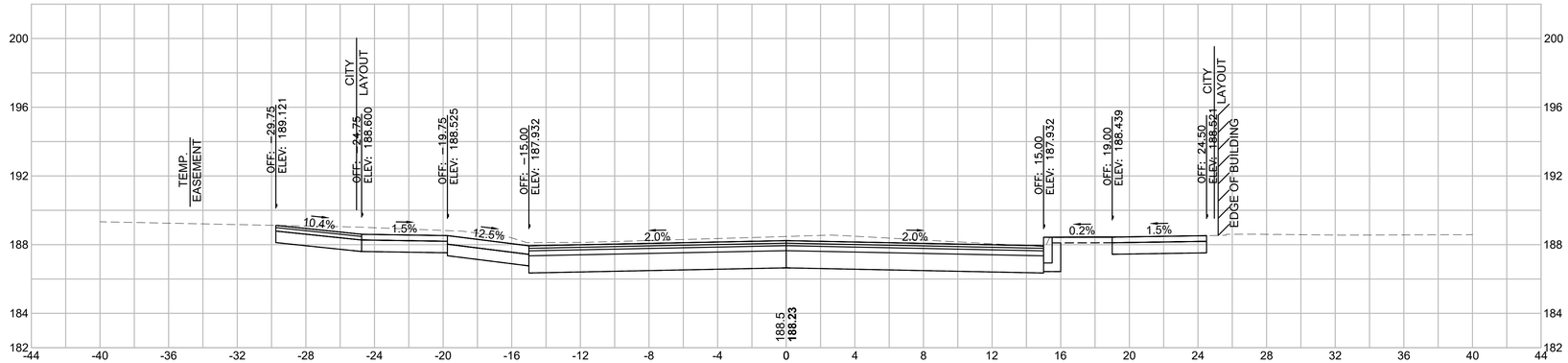
Plotted on 5-May-2023 2:55 PM
20121457A70_XSC01_ORMOND.DWG

502+75



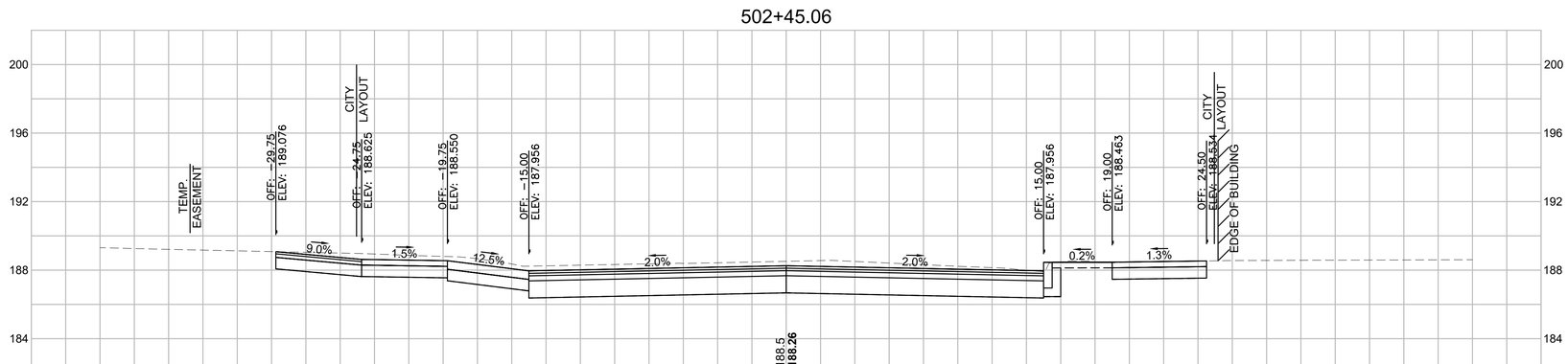
Total Volume at Station 502+75.00	
Cut Area (SF)	**75.97**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**72.8**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**631.3**
Cum Fill Vol (CF)	**0.0**
Net Vol (CF)	**631.2**

502+50



Total Volume at Station 502+50.00	
Cut Area (SF)	**81.31**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**15.0**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**558.4**
Cum Fill Vol (CF)	**0.0**
Net Vol (CF)	**558.4**

502+45.06

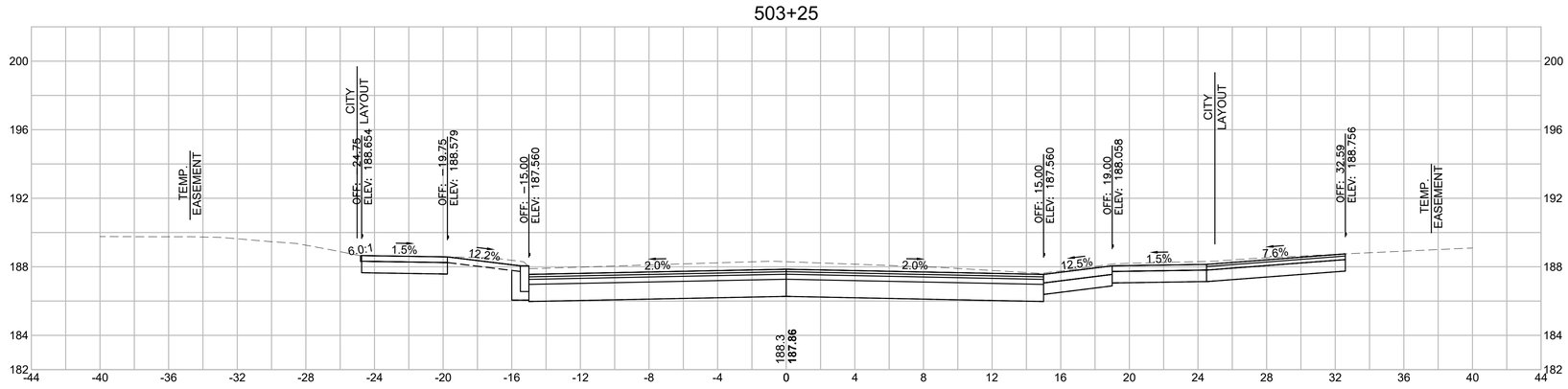


Total Volume at Station 502+45.06	
Cut Area (SF)	**82.45**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**58.5**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**543.5**
Cum Fill Vol (CF)	**0.0**
Net Vol (CF)	**543.5**

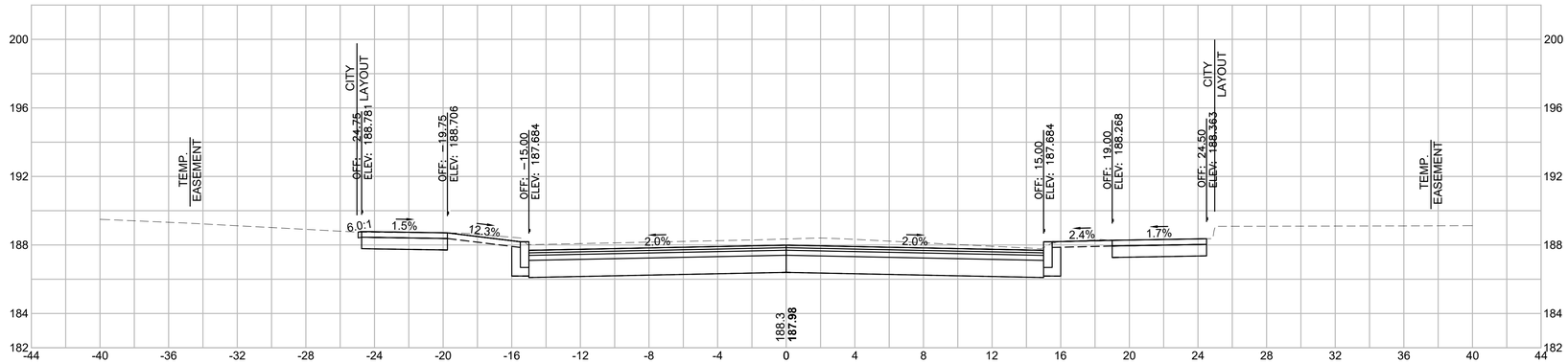
SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	338	358
	PROJECT FILE NO. 608717		

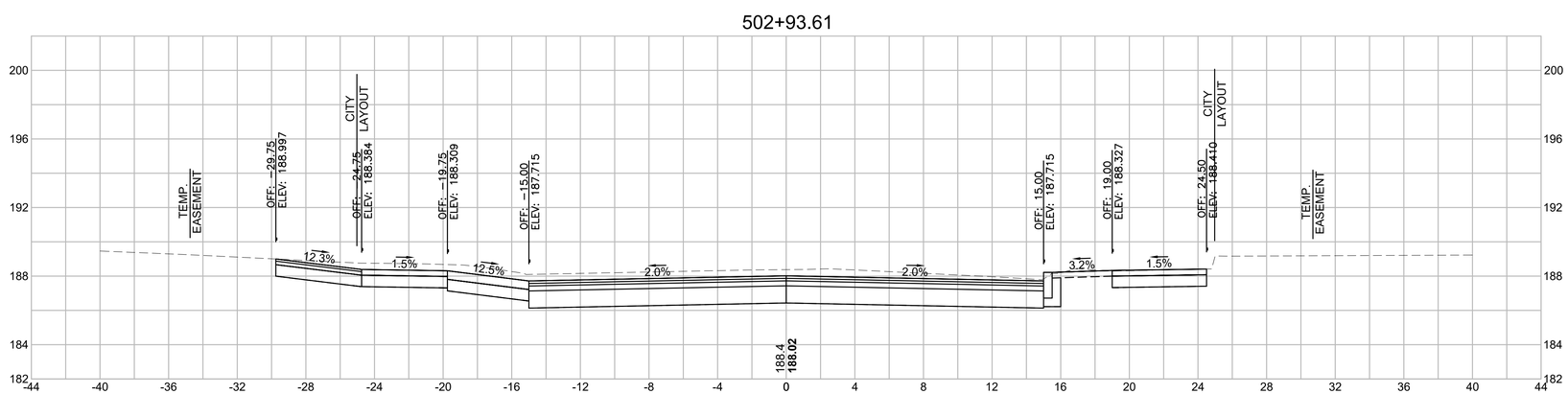
CROSS SECTIONS - ORMOND STREET



Total Volume at Station 503+25.00	
Cut Area (SF)	**90.90**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**82.4**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**791.8**
Cum Fill Vol (CF)	**0.0**
Net Vol (CF)	**791.7**



Total Volume at Station 503+00.00	
Cut Area (SF)	**87.01**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**21.0**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**709.4**
Cum Fill Vol (CF)	**0.0**
Net Vol (CF)	**709.4**



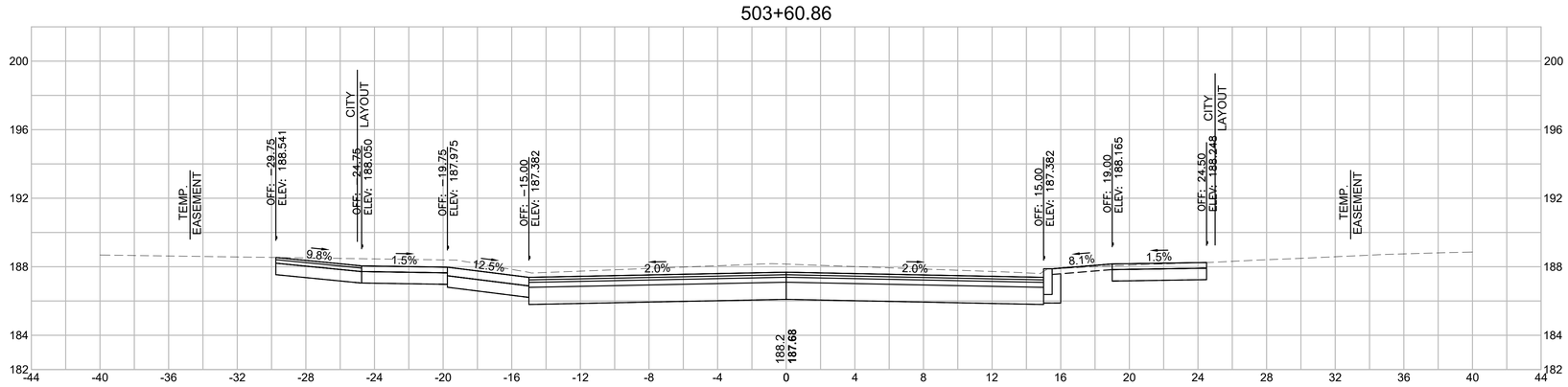
Total Volume at Station 502+93.61	
Cut Area (SF)	**90.00**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**57.2**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**688.4**
Cum Fill Vol (CF)	**0.0**
Net Vol (CF)	**688.4**

20121457A70_XSC01_ORMOND.DWG Plotted on 5-May-2023 2:55 PM

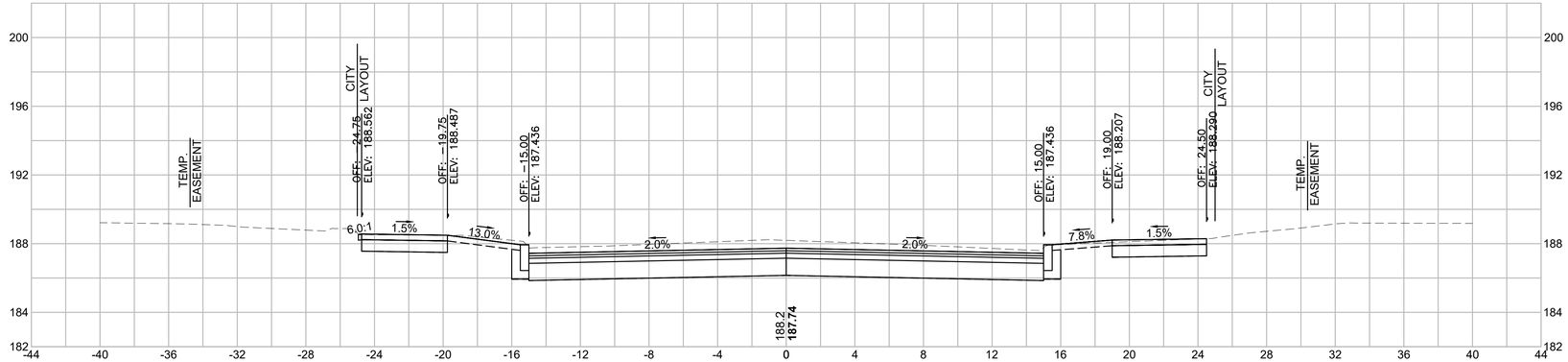
SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	339	358
	PROJECT FILE NO. 608717		

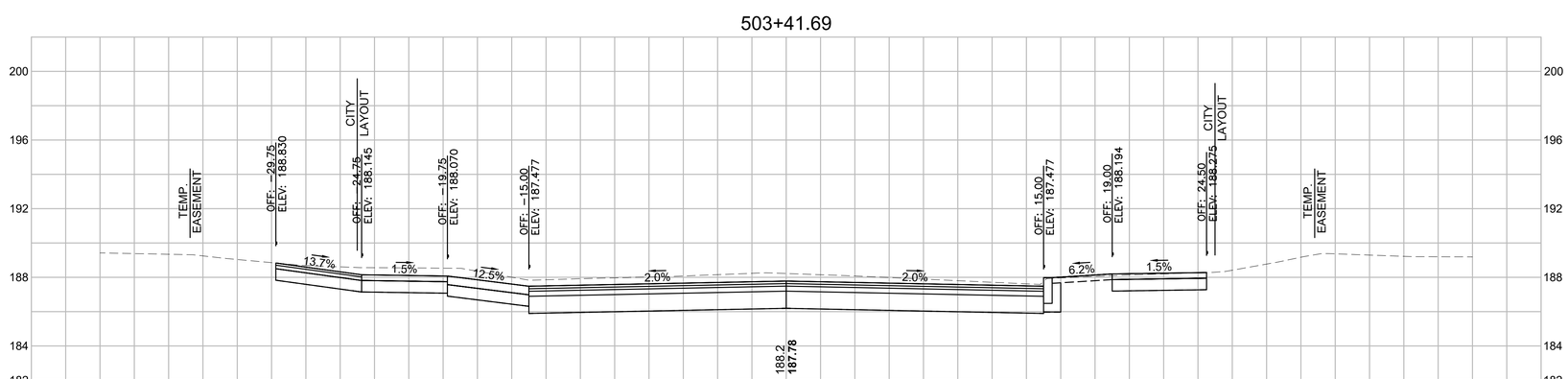
CROSS SECTIONS - ORMOND STREET



Total Volume at Station 503+60.86	
Cut Area (SF)	**100.89**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**39.3**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**922.1**
Cum Fill Vol (CF)	**0.0**
Net Vol (CF)	**922.1**



Total Volume at Station 503+50.00	
Cut Area (SF)	**94.45**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**30.6**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**882.9**
Cum Fill Vol (CF)	**0.0**
Net Vol (CF)	**882.8**



Total Volume at Station 503+41.69	
Cut Area (SF)	**104.67**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**60.5**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**852.2**
Cum Fill Vol (CF)	**0.0**
Net Vol (CF)	**852.2**

20121457A70_XSC01_ORMOND.DWG Plotted on 5-May-2023 2:55 PM

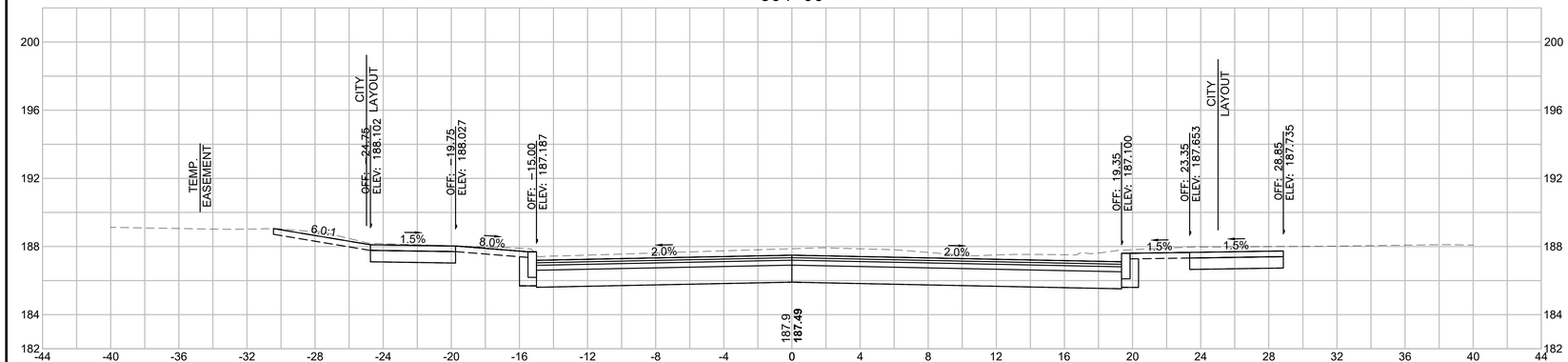
SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	340	358
	PROJECT FILE NO.	608717	

CROSS SECTIONS - ORMOND STREET

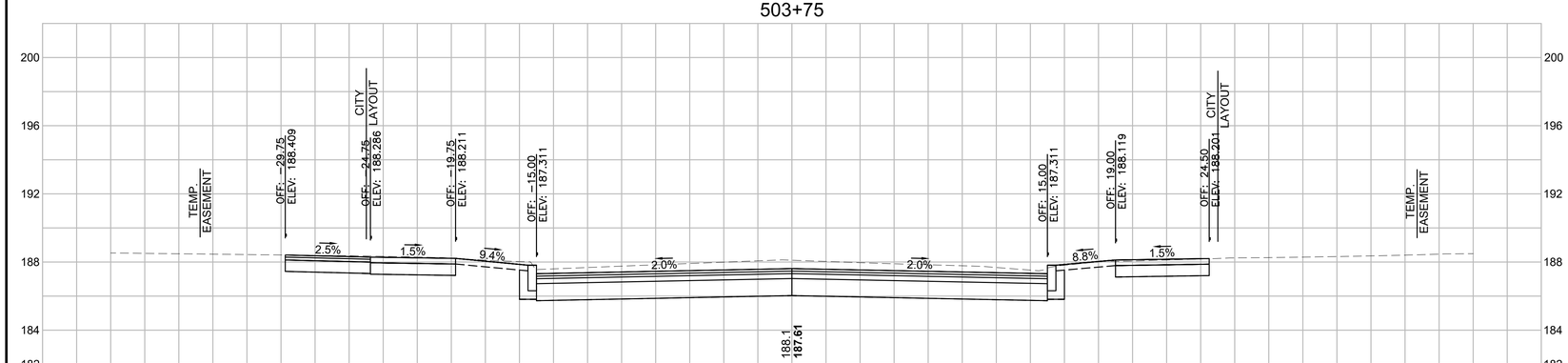
Plotted on 5-May-2023 2:55 PM
20121457A70_XSC01_ORMOND.DWG

504+00



Total Volume at Station 504+00.00	
Cut Area (SF)	**98.05**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**90.6**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**1064.7**
Cum Fill Vol (CF)	**0.0**
Net Vol (CF)	**1064.7**

503+75



Total Volume at Station 503+75.00	
Cut Area (SF)	**97.67**
Fill Area (SF)	**0.00**
Cut Vol (CF)	**52.0**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**974.1**
Cum Fill Vol (CF)	**0.0**
Net Vol (CF)	**974.1**

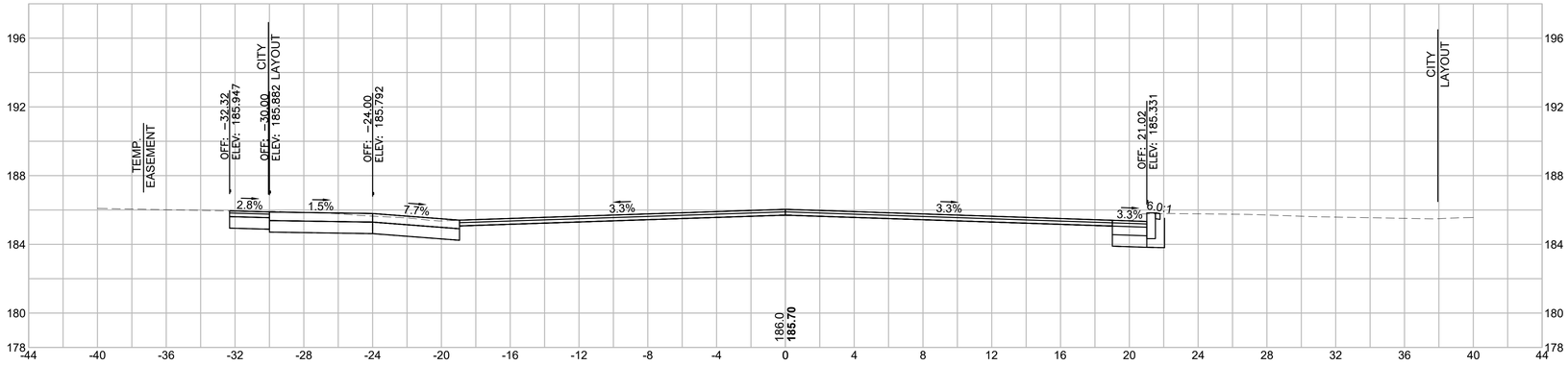
SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	341	358
	PROJECT FILE NO.	608717	

CROSS SECTIONS - OAKLAND STREET

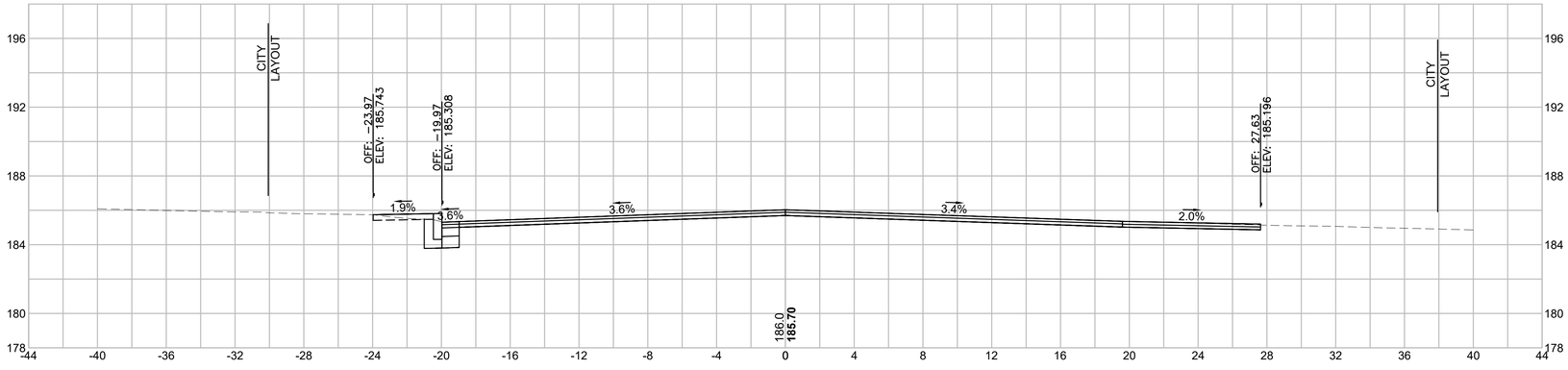
Plotted on 5-May-2023 2:57 PM
20121457A70_XSC01_OAKLAND.DWG

603+75



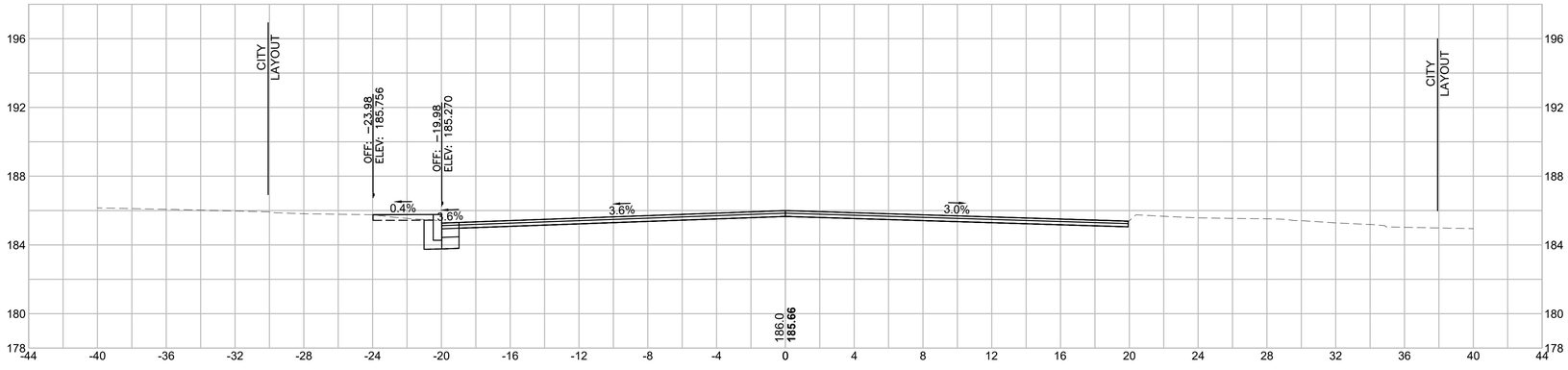
Total Volume at Station 603+75.00	
Cut Area (SF)	**45.767**
Fill Area (SF)	**0.000**
Cut Vol (CF)	**31.8**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**42.0**
Cum Fill Vol (CF)	**0.0**
Net Vol (CF)	**42.0**

603+50



Total Volume at Station 603+50.00	
Cut Area (SF)	**22.861**
Fill Area (SF)	**0.000**
Cut Vol (CF)	**10.2**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**10.2**
Cum Fill Vol (CF)	**0.0**
Net Vol (CF)	**10.2**

603+36



Total Volume at Station 603+36.00	
Cut Area (SF)	**16.568**
Fill Area (SF)	**0.000**
Cut Vol (CF)	**0.0**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**0.0**
Cum Fill Vol (CF)	**0.0**
Net Vol (CF)	**0.0**

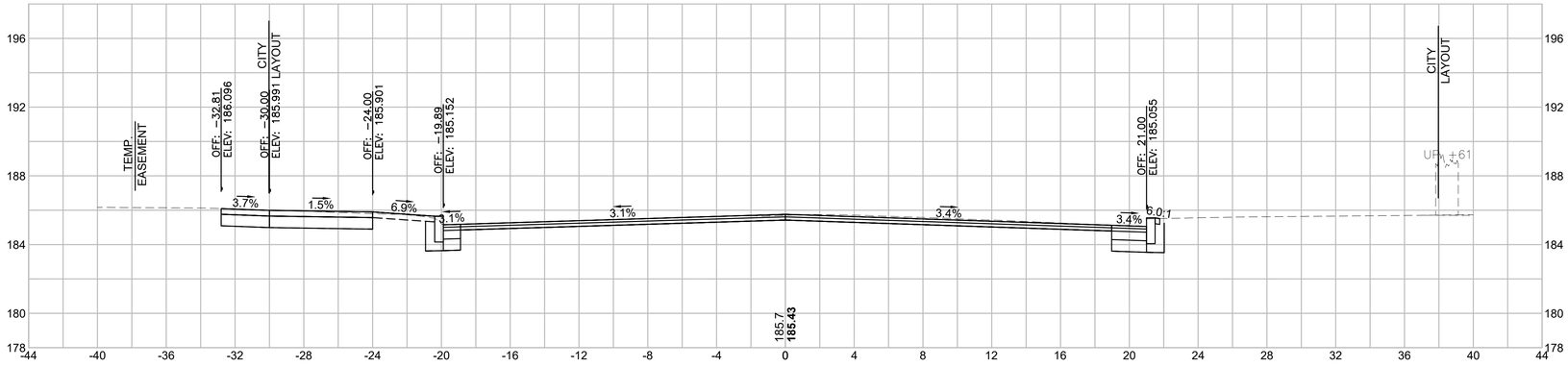
SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	342	358
	PROJECT FILE NO.	608717	

CROSS SECTIONS - OAKLAND STREET

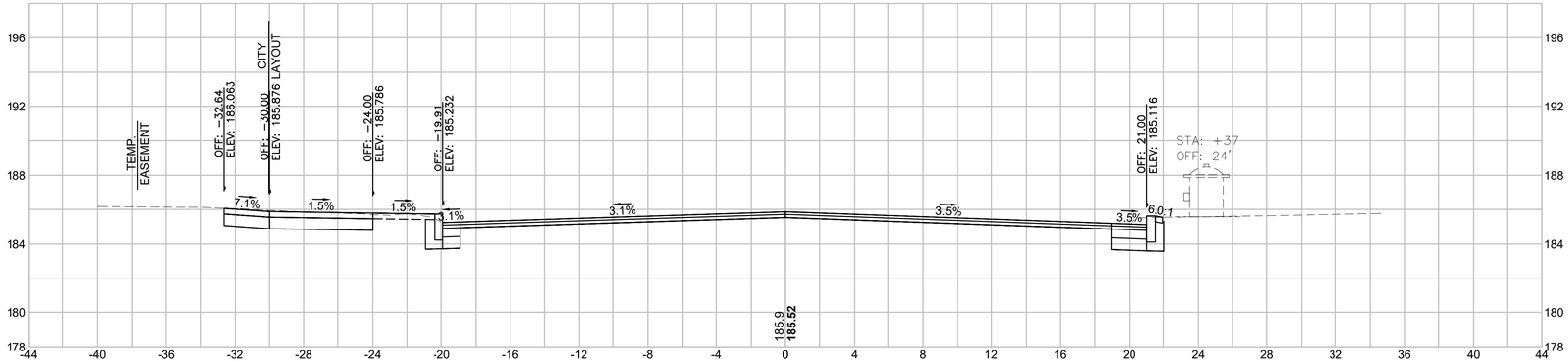
20124457A70_XSC01_OAKLAND.DWG Plotted on 5-May-2023 2:57 PM

604+50



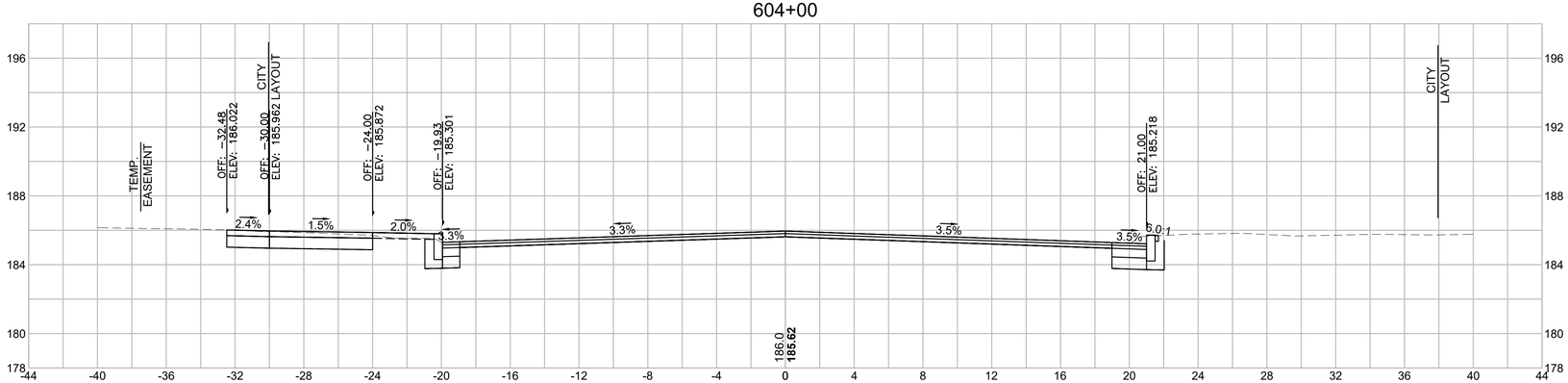
Total Volume at Station 604+50.00	
Cut Area (SF)	**55.203**
Fill Area (SF)	**0.000**
Cut Vol (CF)	**47.7**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**175.6**
Cum Fill Vol (CF)	**0.0**
Net Vol (CF)	**175.6**

604+25



Total Volume at Station 604+25.00	
Cut Area (SF)	**47.805**
Fill Area (SF)	**0.000**
Cut Vol (CF)	**43.4**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**127.9**
Cum Fill Vol (CF)	**0.0**
Net Vol (CF)	**127.9**

604+00



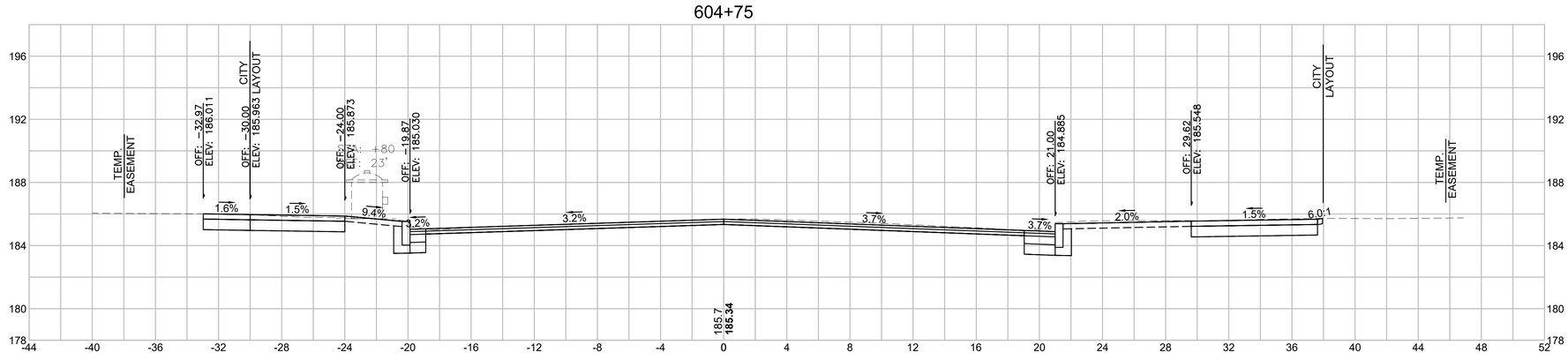
Total Volume at Station 604+00.00	
Cut Area (SF)	**45.952**
Fill Area (SF)	**0.000**
Cut Vol (CF)	**42.5**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**84.5**
Cum Fill Vol (CF)	**0.0**
Net Vol (CF)	**84.5**

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	343	358
PROJECT FILE NO.	608717		

CROSS SECTIONS - OAKLAND STREET

20121457A70_XSC01_OAKLAND.DWG Plotted on 5-May-2023 2:57 PM



Total Volume at Station 604+75.00	
Cut Area (SF)	**53.657**
Fill Area (SF)	**0.000**
Cut Vol (CF)	**50.4**
Fill Vol (CF)	**0.0**
Cum Cut Vol (CF)	**225.9**
Cum Fill Vol (CF)	**0.0**
Net Vol (CF)	**225.9**

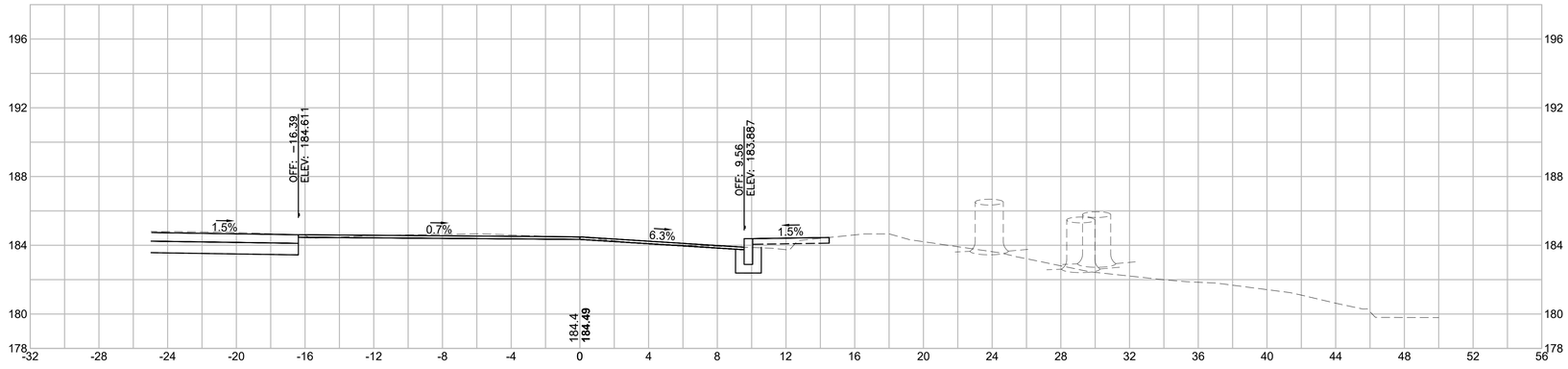
SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	344	358
	PROJECT FILE NO. 608717		

CROSS SECTIONS - CLIFTWOOD STREET

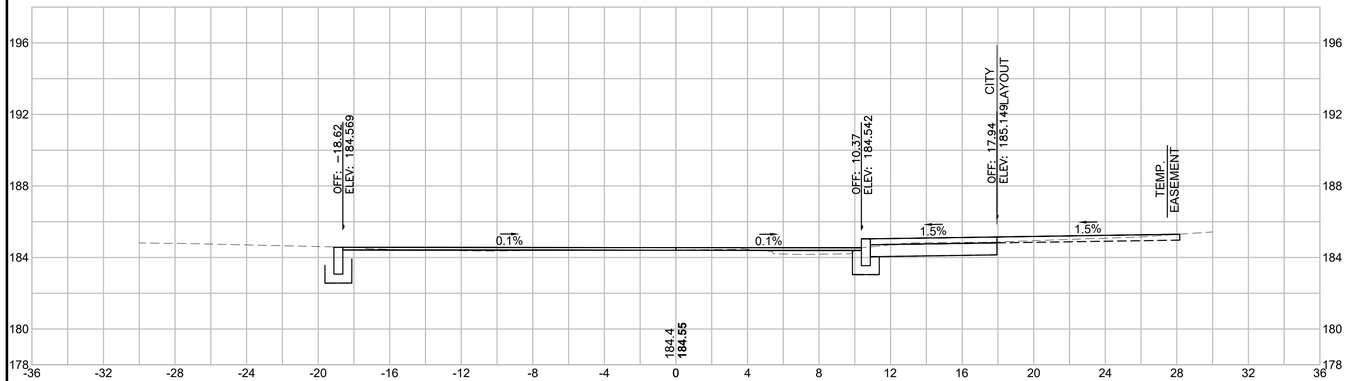
20121457A70_XSC01_CLIFTWOOD STREET.DWG Plotted on 5-May-2023 2:38 PM

700+75



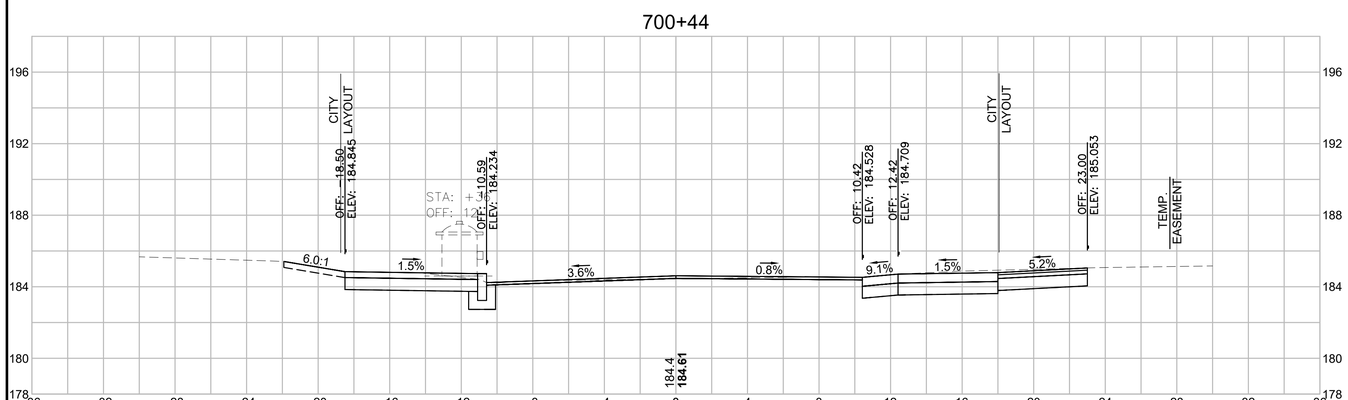
Total Volume at Station 700+75.00	
Cut Area (SF)	**16.59**
Fill Area (SF)	**0.59**
Cut Vol (CY)	**4.8**
Fill Vol (CY)	**1.0**
Cum Cut Vol (CY)	**16.7**
Cum Fill Vol (CY)	**1.2**
Net Vol (CY)	**15.5**

700+54.06



Total Volume at Station 700+54.06	
Cut Area (SF)	**29.92**
Fill Area (SF)	**1.32**
Cut Vol (CY)	**11.9**
Fill Vol (CY)	**0.3**
Cum Cut Vol (CY)	**11.9**
Cum Fill Vol (CY)	**0.3**
Net Vol (CY)	**11.7**

700+44



Total Volume at Station 700+44.00	
Cut Area (SF)	**33.96**
Fill Area (SF)	**0.03**
Cut Vol (CY)	**0.0**
Fill Vol (CY)	**0.0**
Cum Cut Vol (CY)	**0.0**
Cum Fill Vol (CY)	**0.0**
Net Vol (CY)	**0.0**

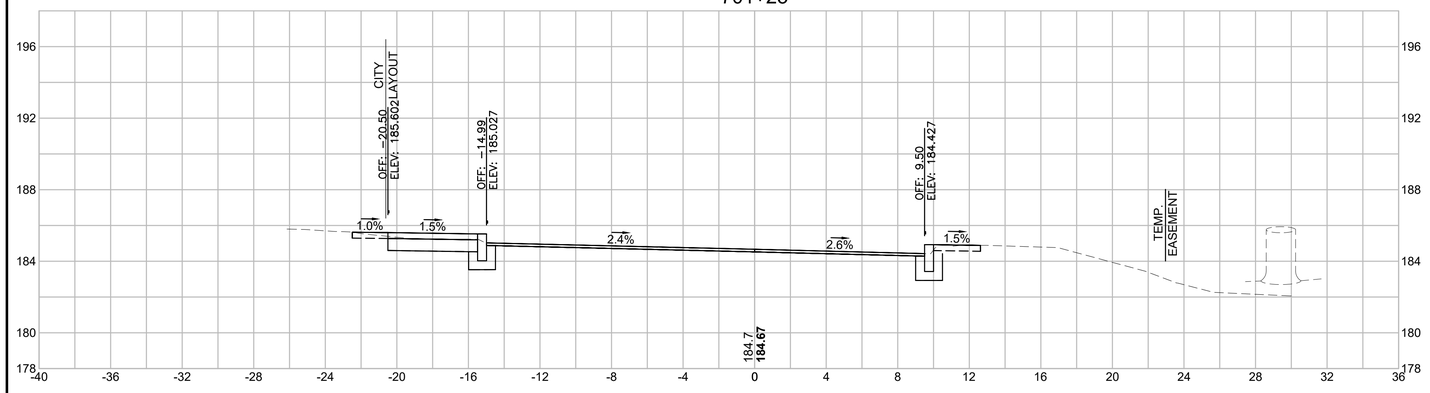
SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	345	358
	PROJECT FILE NO. 608717		

CROSS SECTIONS - CLIFTWOOD STREET

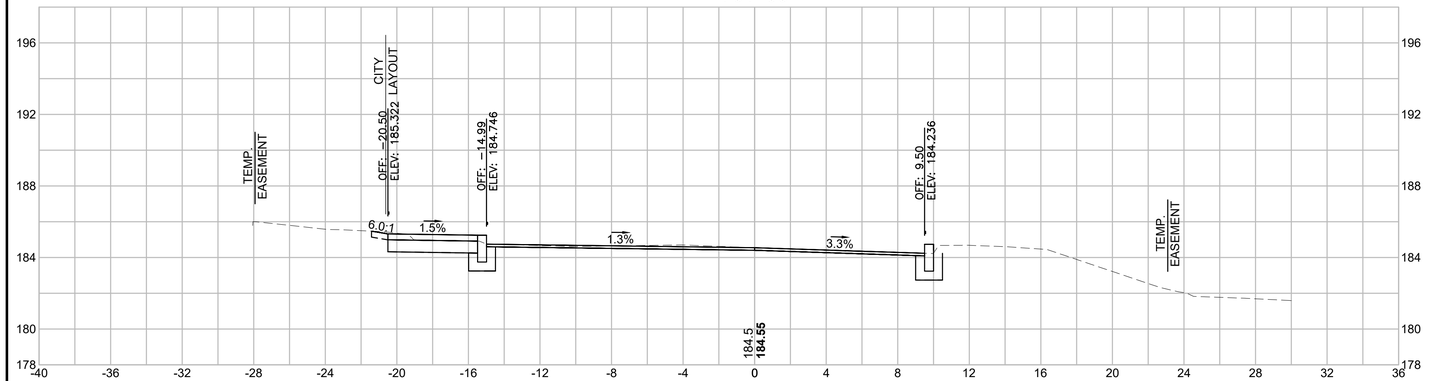
20121457A70_XSC01_CLIFTWOOD STREET.DWG Plotted on 5-May-2023 2:58 PM

701+25



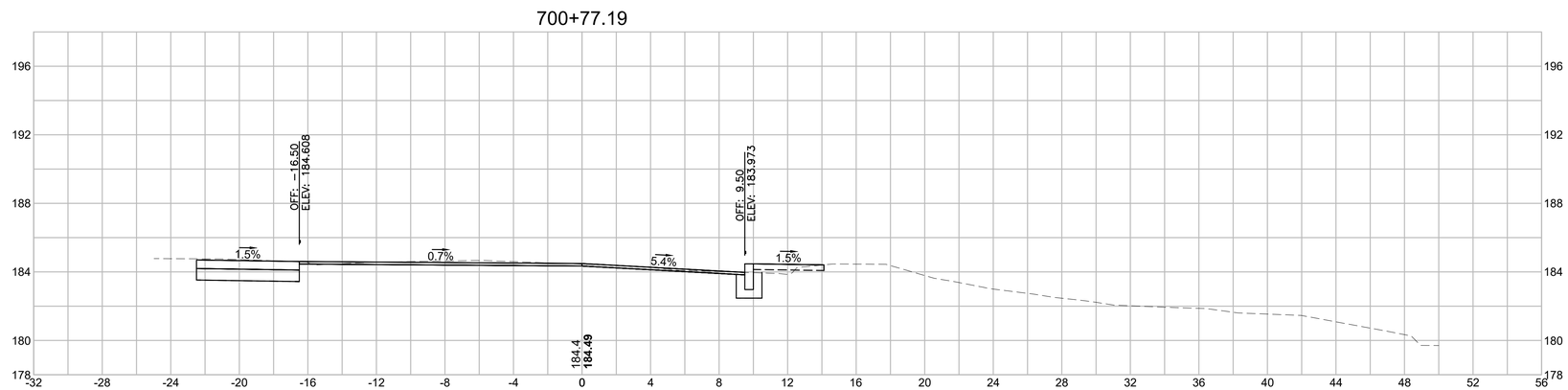
Total Volume at Station 701+25.00	
Cut Area (SF)	**14.71**
Fill Area (SF)	**0.00**
Cut Vol (CY)	**16.2**
Fill Vol (CY)	**0.0**
Cum Cut Vol (CY)	**48.9**
Cum Fill Vol (CY)	**1.5**
Net Vol (CY)	**47.4**

701+00



Total Volume at Station 701+00.00	
Cut Area (SF)	**20.36**
Fill Area (SF)	**0.00**
Cut Vol (CY)	**15.7**
Fill Vol (CY)	**0.2**
Cum Cut Vol (CY)	**32.7**
Cum Fill Vol (CY)	**1.5**
Net Vol (CY)	**31.2**

700+77.19



Total Volume at Station 700+77.19	
Cut Area (SF)	**16.82**
Fill Area (SF)	**0.44**
Cut Vol (CY)	**0.3**
Fill Vol (CY)	**0.1**
Cum Cut Vol (CY)	**17.0**
Cum Fill Vol (CY)	**1.3**
Net Vol (CY)	**15.7**

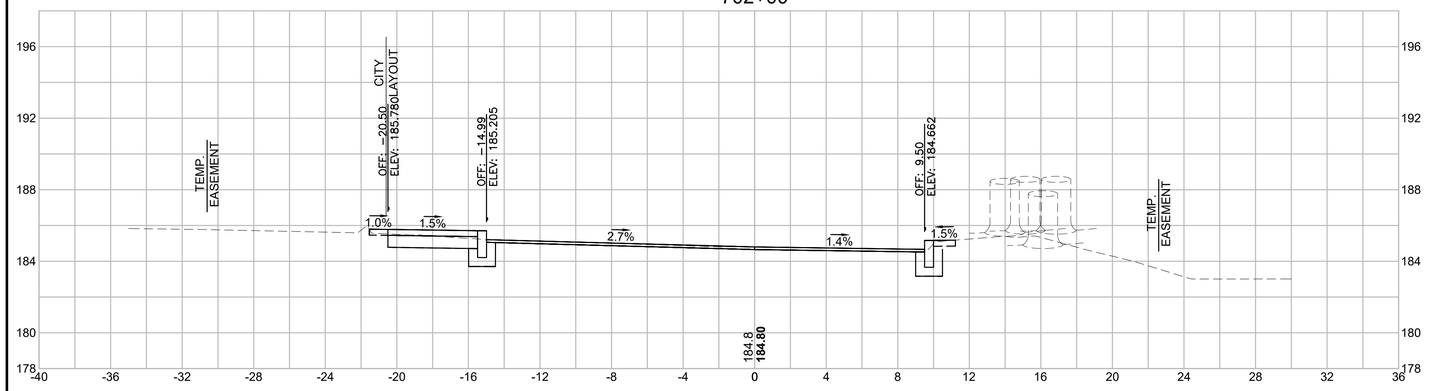
SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	346	358
	PROJECT FILE NO. 608717		

CROSS SECTIONS - CLIFTWOOD STREET

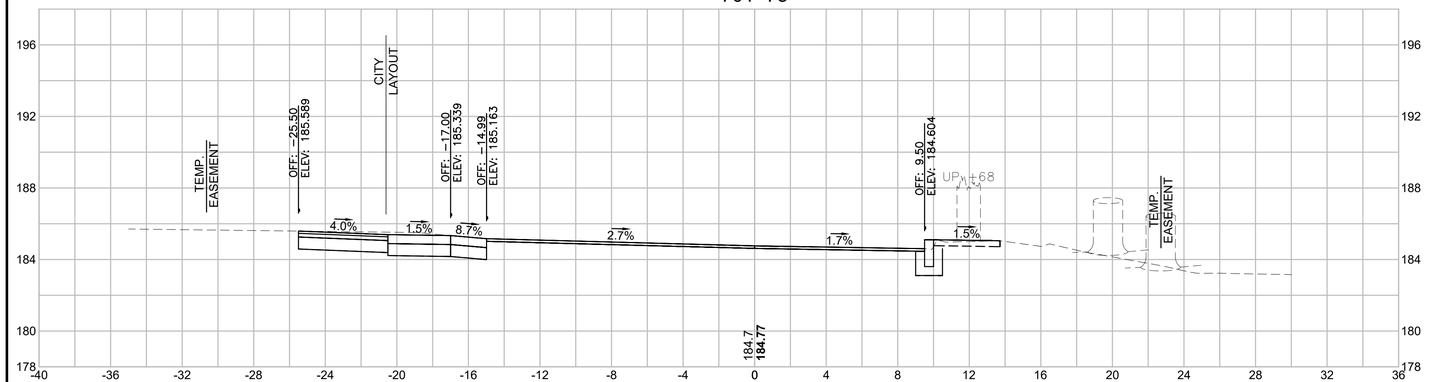
20121457A70_XSC01_CLIFTWOOD STREET.DWG Plotted on 5-May-2023 2:59 PM

702+00



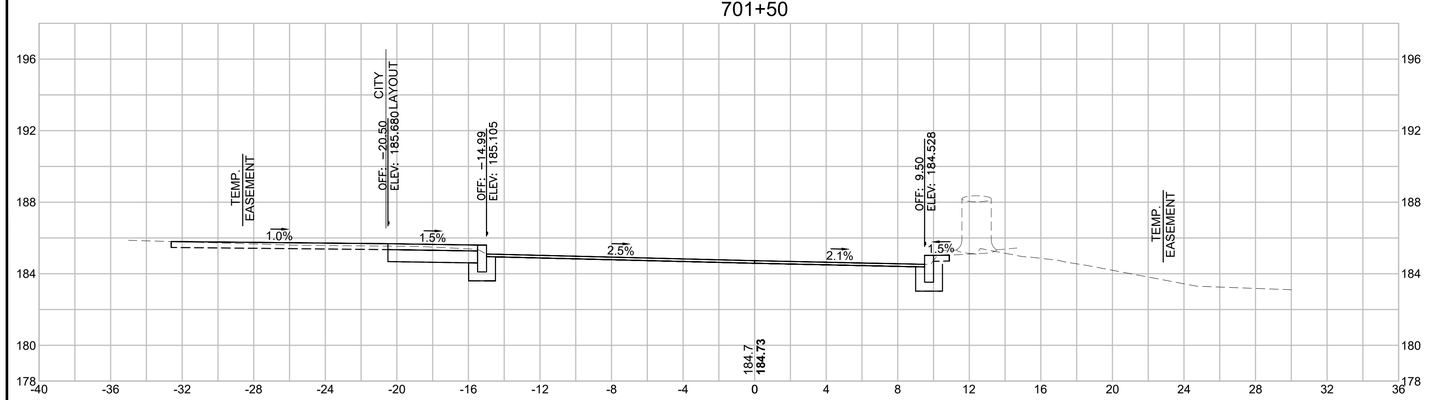
Total Volume at Station 702+00.00	
Cut Area (SF)	**16.09**
Fill Area (SF)	**0.01**
Cut Vol (CY)	**17.2**
Fill Vol (CY)	**0.0**
Cum Cut Vol (CY)	**99.0**
Cum Fill Vol (CY)	**1.5**
Net Vol (CY)	**97.6**

701+75



Total Volume at Station 701+75.00	
Cut Area (SF)	**21.05**
Fill Area (SF)	**0.00**
Cut Vol (CY)	**17.9**
Fill Vol (CY)	**0.0**
Cum Cut Vol (CY)	**81.8**
Cum Fill Vol (CY)	**1.5**
Net Vol (CY)	**80.4**

701+50



Total Volume at Station 701+50.00	
Cut Area (SF)	**17.69**
Fill Area (SF)	**0.00**
Cut Vol (CY)	**15.0**
Fill Vol (CY)	**0.0**
Cum Cut Vol (CY)	**63.9**
Cum Fill Vol (CY)	**1.5**
Net Vol (CY)	**62.4**

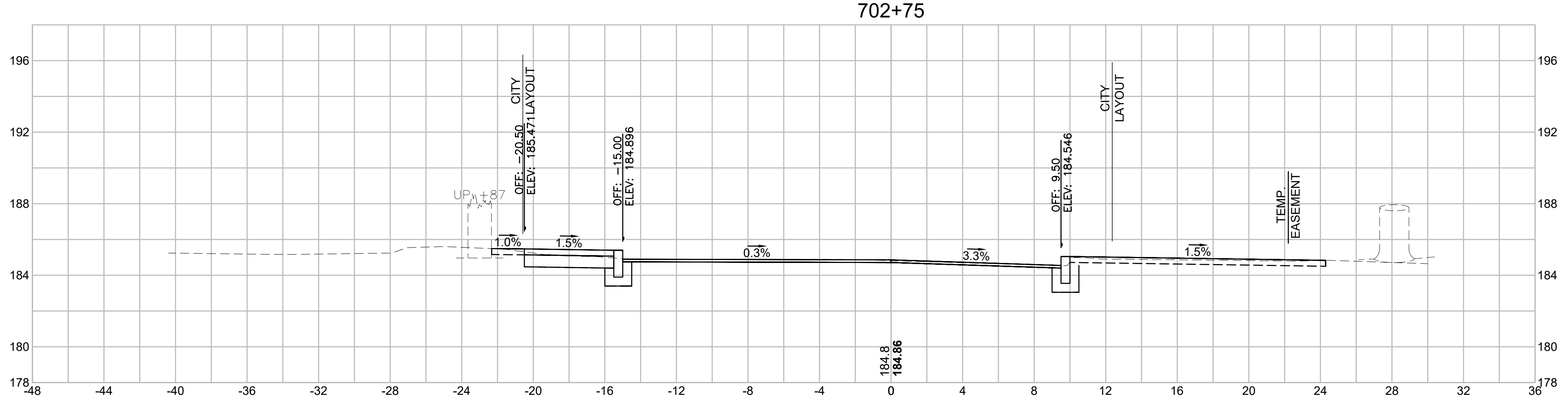
SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	347	358
	PROJECT FILE NO. 608717		

CROSS SECTIONS - CLIFTWOOD STREET

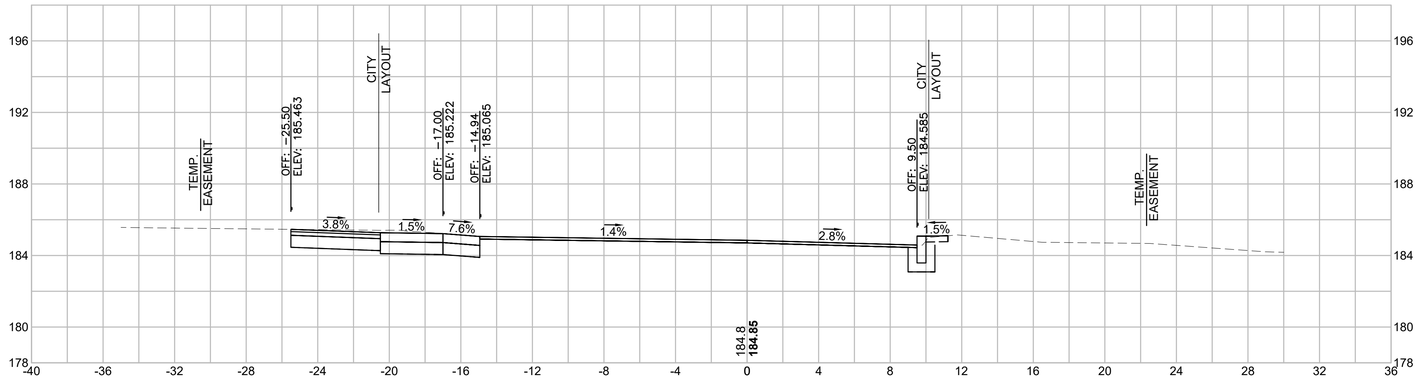
20121457A70_XSC01_CLIFTWOOD STREET.DWG Plotted on 5-May-2023 2:59 PM

702+75



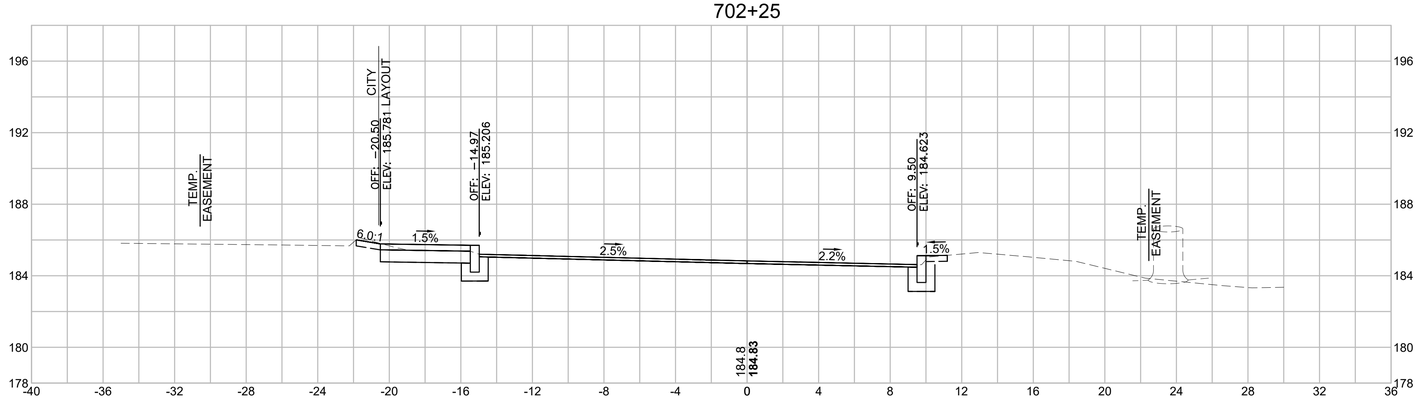
Total Volume at Station 702+75.00	
Cut Area (SF)	**22.75**
Fill Area (SF)	**0.00**
Cut Vol (CY)	**22.3**
Fill Vol (CY)	**0.0**
Cum Cut Vol (CY)	**157.2**
Cum Fill Vol (CY)	**1.5**
Net Vol (CY)	**155.6**

702+50



Total Volume at Station 702+50.00	
Cut Area (SF)	**25.38**
Fill Area (SF)	**0.00**
Cut Vol (CY)	**20.1**
Fill Vol (CY)	**0.0**
Cum Cut Vol (CY)	**134.9**
Cum Fill Vol (CY)	**1.5**
Net Vol (CY)	**133.4**

702+25



Total Volume at Station 702+25.00	
Cut Area (SF)	**17.96**
Fill Area (SF)	**0.04**
Cut Vol (CY)	**15.8**
Fill Vol (CY)	**0.0**
Cum Cut Vol (CY)	**114.8**
Cum Fill Vol (CY)	**1.5**
Net Vol (CY)	**113.3**

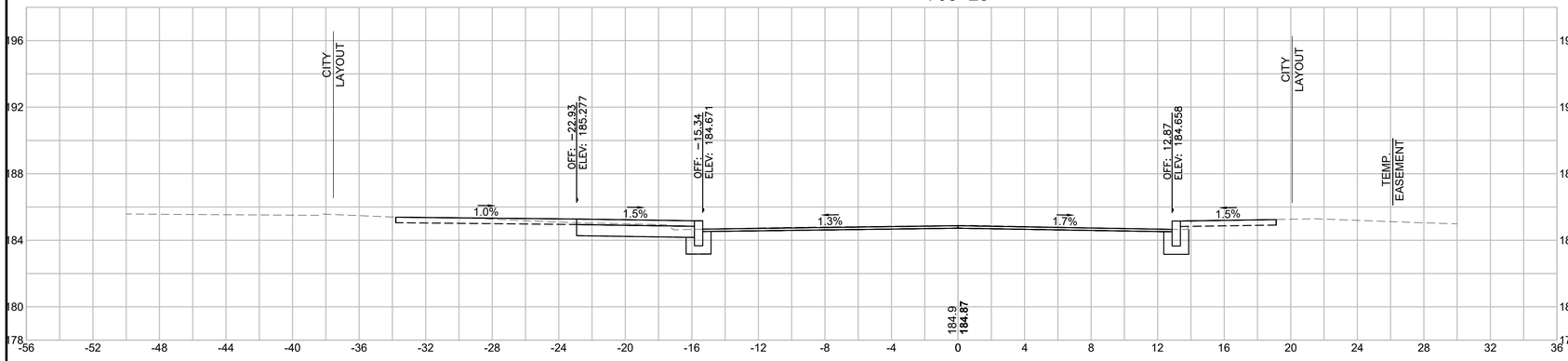
SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	348	358
	PROJECT FILE NO. 608717		

CROSS SECTIONS - CLIFTWOOD STREET

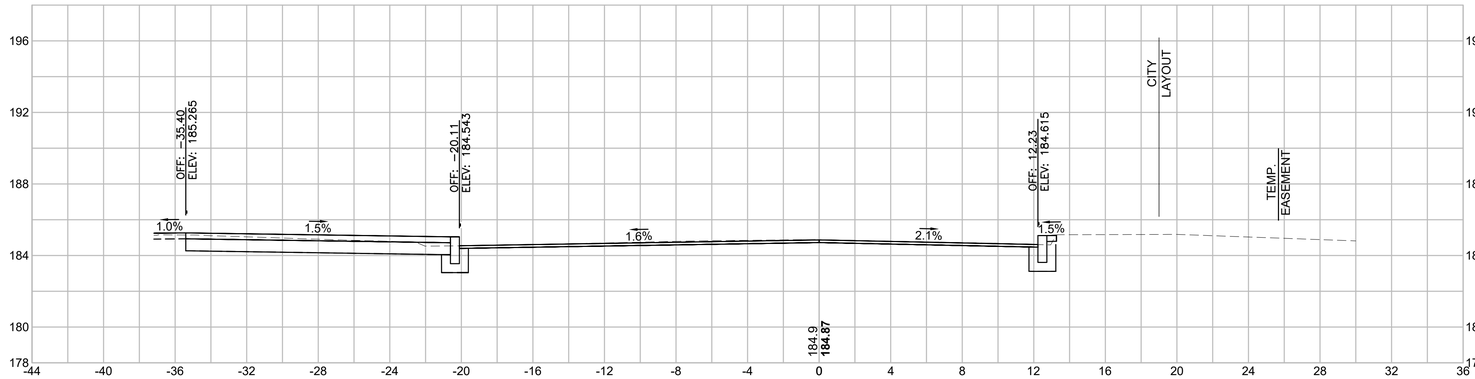
20121457A70_XSC01_CLIFTWOOD STREET.DWG Plotted on 5-May-2023 2:59 PM

703+25



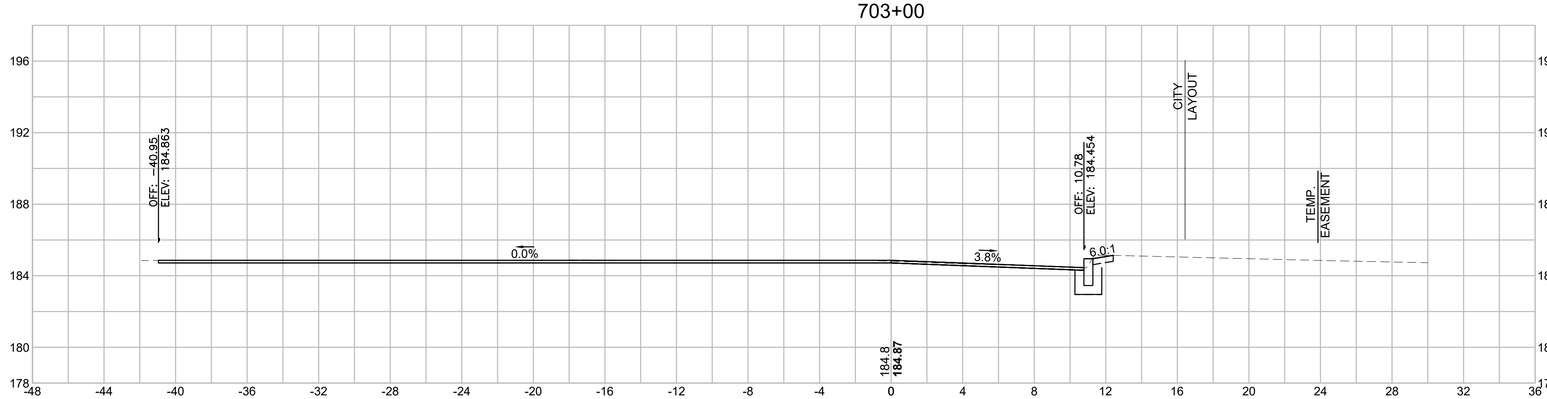
Total Volume at Station 703+25.00	
Cut Area (SF)	**27.09**
Fill Area (SF)	**0.00**
Cut Vol (CY)	**9.0**
Fill Vol (CY)	**0.0**
Cum Cut Vol (CY)	**205.0**
Cum Fill Vol (CY)	**1.5**
Net Vol (CY)	**203.5**

703+16.25



Total Volume at Station 703+16.25	
Cut Area (SF)	**25.59**
Fill Area (SF)	**0.00**
Cut Vol (CY)	**16.1**
Fill Vol (CY)	**0.0**
Cum Cut Vol (CY)	**196.0**
Cum Fill Vol (CY)	**1.5**
Net Vol (CY)	**194.5**

703+00



Total Volume at Station 703+00.00	
Cut Area (SF)	**26.44**
Fill Area (SF)	**0.00**
Cut Vol (CY)	**22.8**
Fill Vol (CY)	**0.0**
Cum Cut Vol (CY)	**179.9**
Cum Fill Vol (CY)	**1.5**
Net Vol (CY)	**178.4**

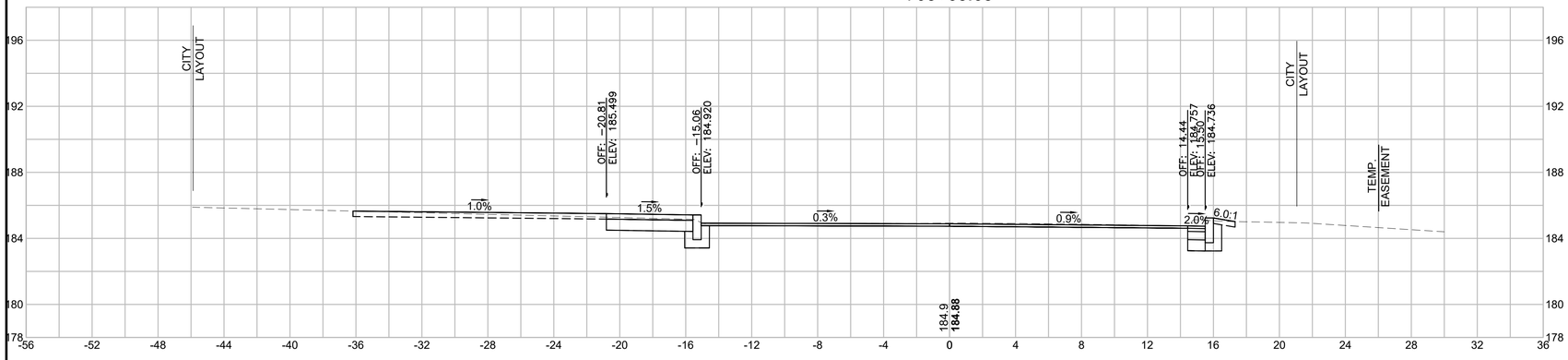
SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	349	358
	PROJECT FILE NO. 608717		

CROSS SECTIONS - CLIFTWOOD STREET

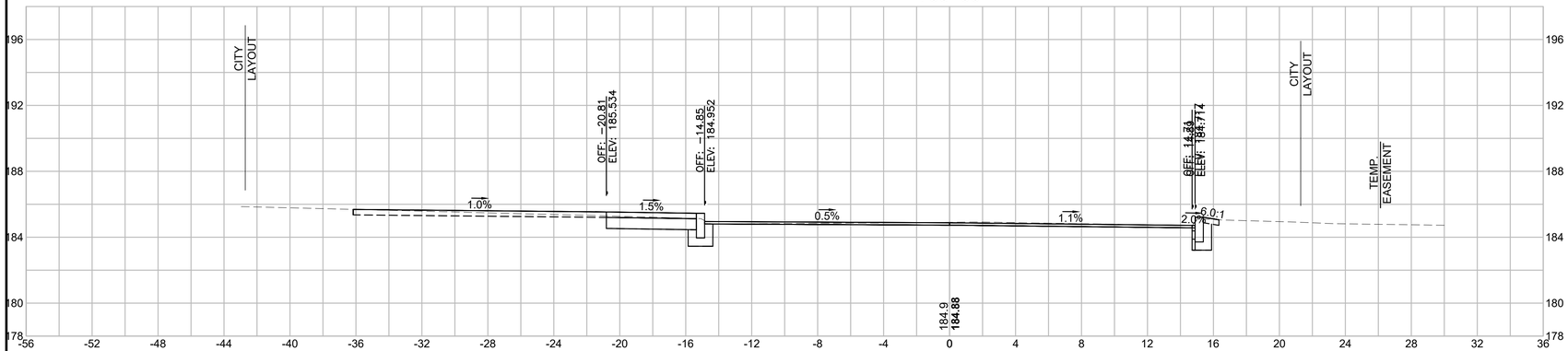
20121457A70_XSC01_CLIFTWOOD STREET.DWG Plotted on 5-May-2023 2:59 PM

703+65.65



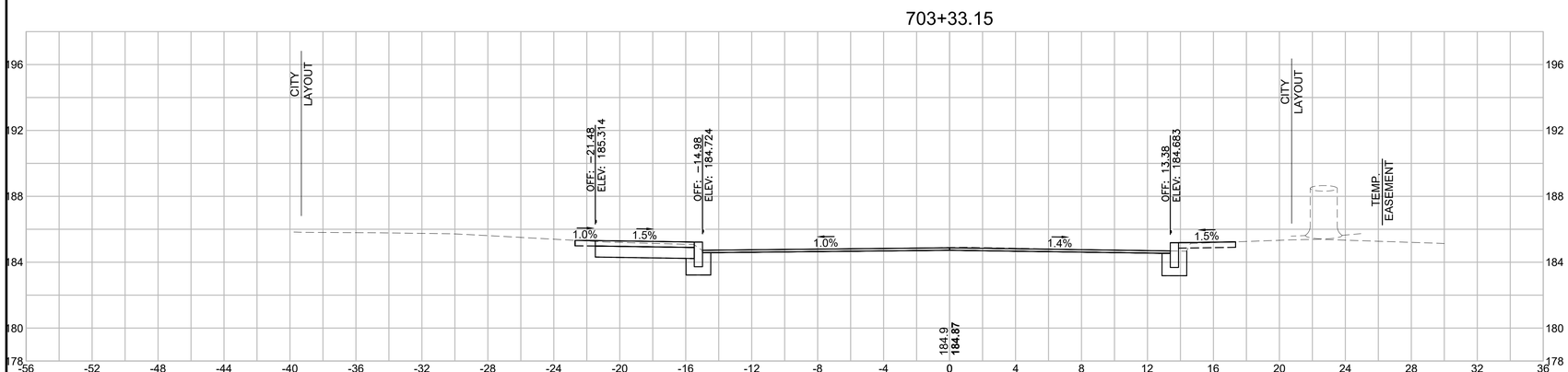
Total Volume at Station 703+65.65	
Cut Area (SF)	**19.59**
Fill Area (SF)	**0.00**
Cut Vol (CY)	**11.1**
Fill Vol (CY)	**0.0**
Cum Cut Vol (CY)	**239.0**
Cum Fill Vol (CY)	**1.5**
Net Vol (CY)	**237.5**

703+50



Total Volume at Station 703+50.00	
Cut Area (SF)	**18.54**
Fill Area (SF)	**0.00**
Cut Vol (CY)	**14.3**
Fill Vol (CY)	**0.0**
Cum Cut Vol (CY)	**228.0**
Cum Fill Vol (CY)	**1.5**
Net Vol (CY)	**226.5**

703+33.15



Total Volume at Station 703+33.15	
Cut Area (SF)	**27.17**
Fill Area (SF)	**0.01**
Cut Vol (CY)	**8.7**
Fill Vol (CY)	**0.0**
Cum Cut Vol (CY)	**213.7**
Cum Fill Vol (CY)	**1.5**
Net Vol (CY)	**212.2**

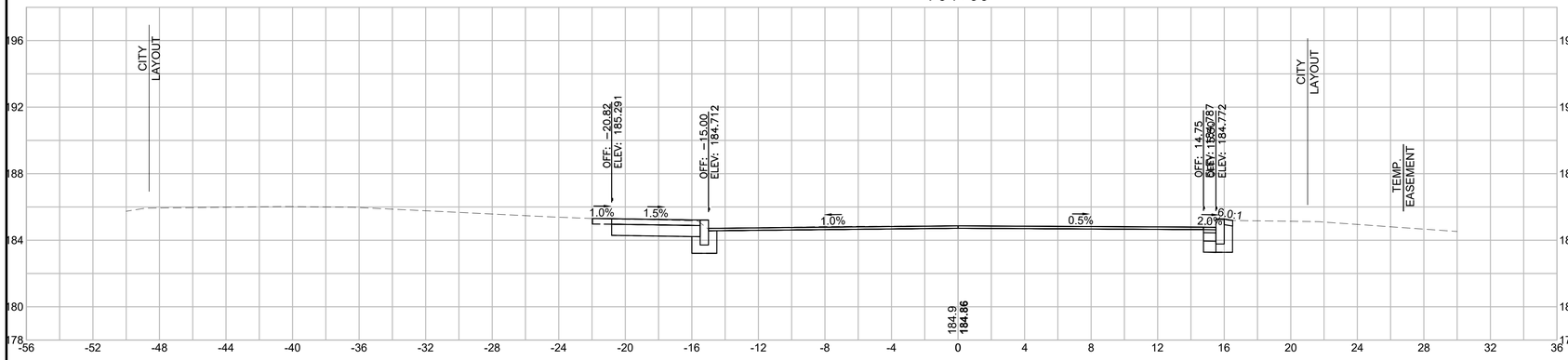
SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	350	358
	PROJECT FILE NO. 608717		

CROSS SECTIONS - CLIFTWOOD STREET

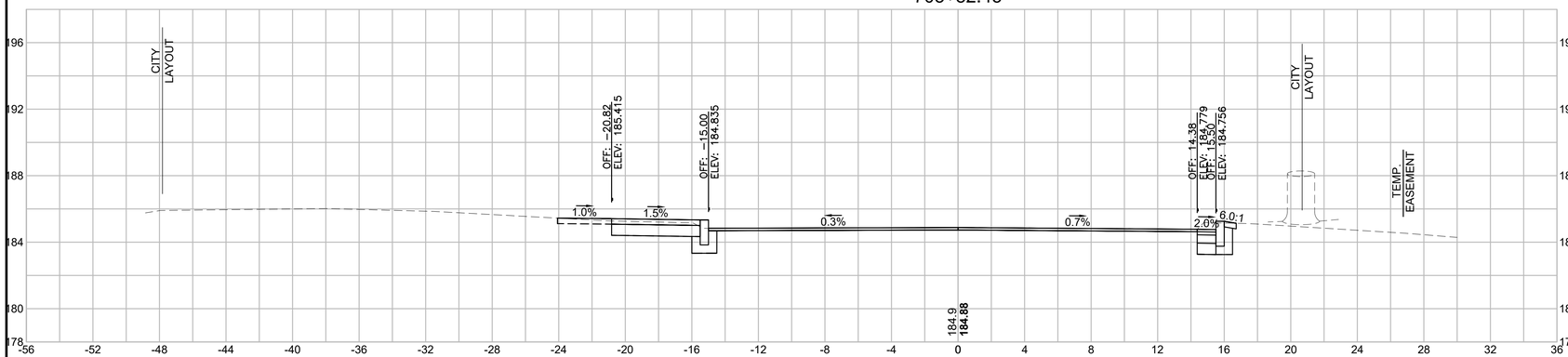
20121457A70_XSC01_CLIFTWOOD STREET.DWG Plotted on 5-May-2023 3:00 PM

704+00



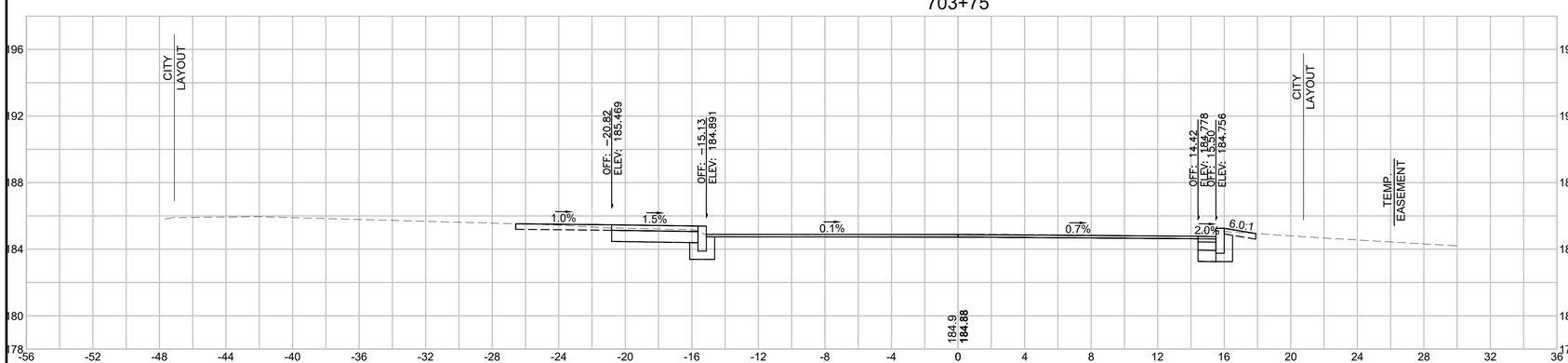
Total Volume at Station 704+00.00	
Cut Area (SF)	**36.43**
Fill Area (SF)	**0.00**
Cut Vol (CY)	**18.8**
Fill Vol (CY)	**0.0**
Cum Cut Vol (CY)	**271.2**
Cum Fill Vol (CY)	**1.5**
Net Vol (CY)	**269.7**

703+82.45



Total Volume at Station 703+82.45	
Cut Area (SF)	**28.90**
Fill Area (SF)	**0.00**
Cut Vol (CY)	**6.5**
Fill Vol (CY)	**0.0**
Cum Cut Vol (CY)	**252.4**
Cum Fill Vol (CY)	**1.5**
Net Vol (CY)	**250.9**

703+75



Total Volume at Station 703+75.00	
Cut Area (SF)	**22.53**
Fill Area (SF)	**0.00**
Cut Vol (CY)	**6.9**
Fill Vol (CY)	**0.0**
Cum Cut Vol (CY)	**245.9**
Cum Fill Vol (CY)	**1.5**
Net Vol (CY)	**244.4**

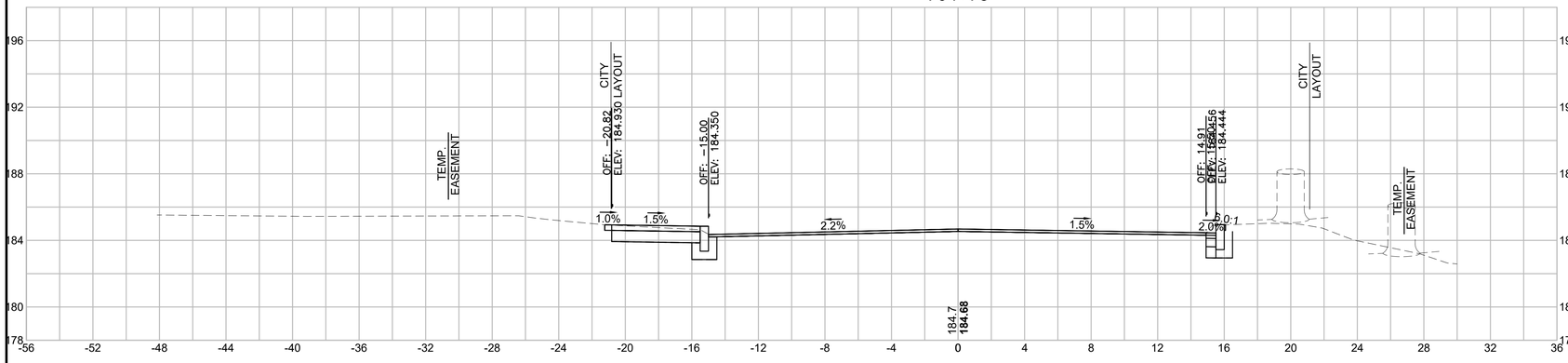
SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	351	358
	PROJECT FILE NO. 608717		

CROSS SECTIONS - CLIFTWOOD STREET

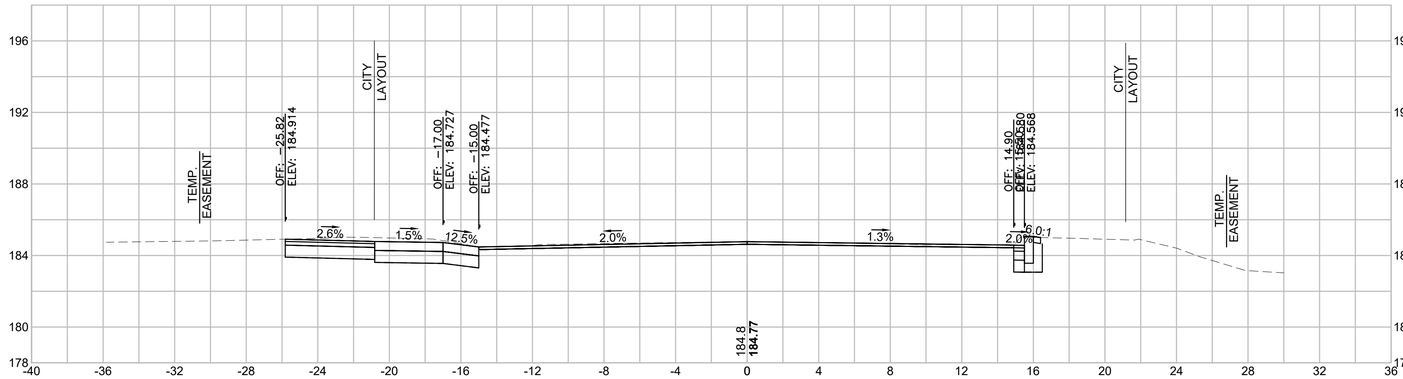
20121457A70_XSC01_CLIFTWOOD STREET.DWG Plotted on 5-May-2023 3:00 PM

704+75



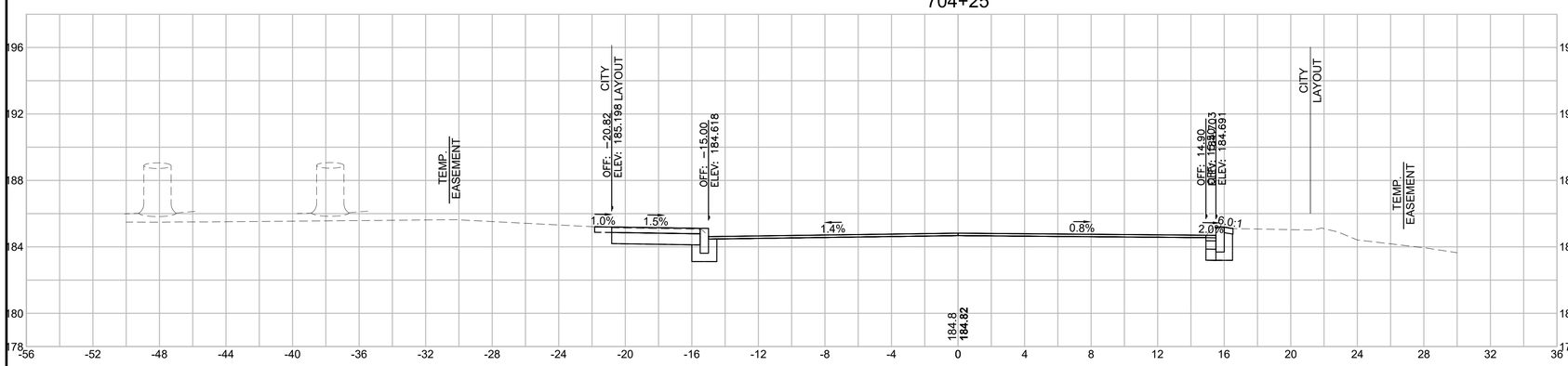
Total Volume at Station 704+75.00	
Cut Area (SF)	**45.11**
Fill Area (SF)	**0.00**
Cut Vol (CY)	**34.6**
Fill Vol (CY)	**0.0**
Cum Cut Vol (CY)	**376.3**
Cum Fill Vol (CY)	**1.5**
Net Vol (CY)	**374.7**

704+50



Total Volume at Station 704+50.00	
Cut Area (SF)	**29.58**
Fill Area (SF)	**0.00**
Cut Vol (CY)	**33.7**
Fill Vol (CY)	**0.0**
Cum Cut Vol (CY)	**341.7**
Cum Fill Vol (CY)	**1.5**
Net Vol (CY)	**340.2**

704+25



Total Volume at Station 704+25.00	
Cut Area (SF)	**43.12**
Fill Area (SF)	**0.00**
Cut Vol (CY)	**36.8**
Fill Vol (CY)	**0.0**
Cum Cut Vol (CY)	**308.0**
Cum Fill Vol (CY)	**1.5**
Net Vol (CY)	**306.5**

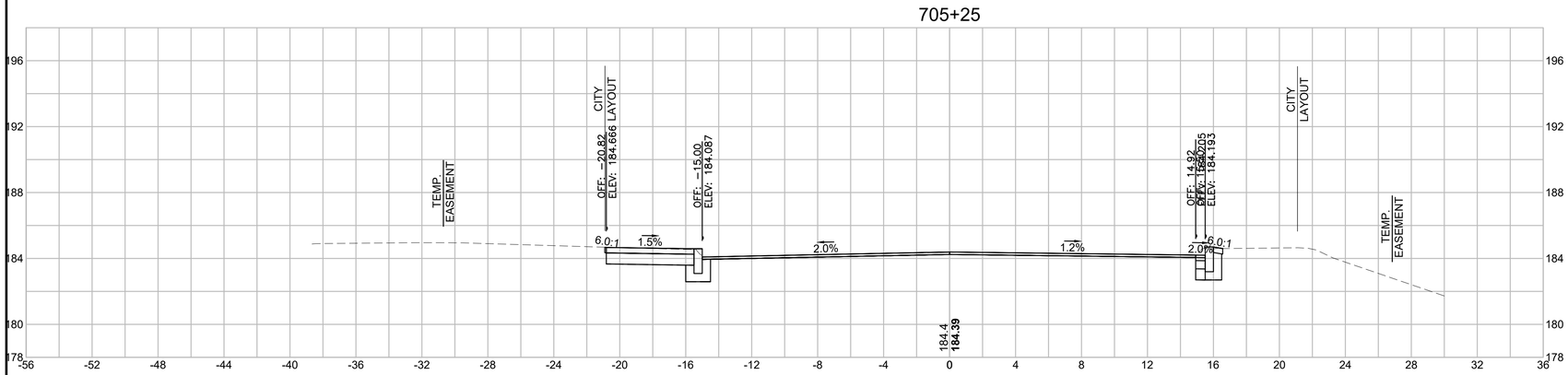
SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	352	358
	PROJECT FILE NO. 608717		

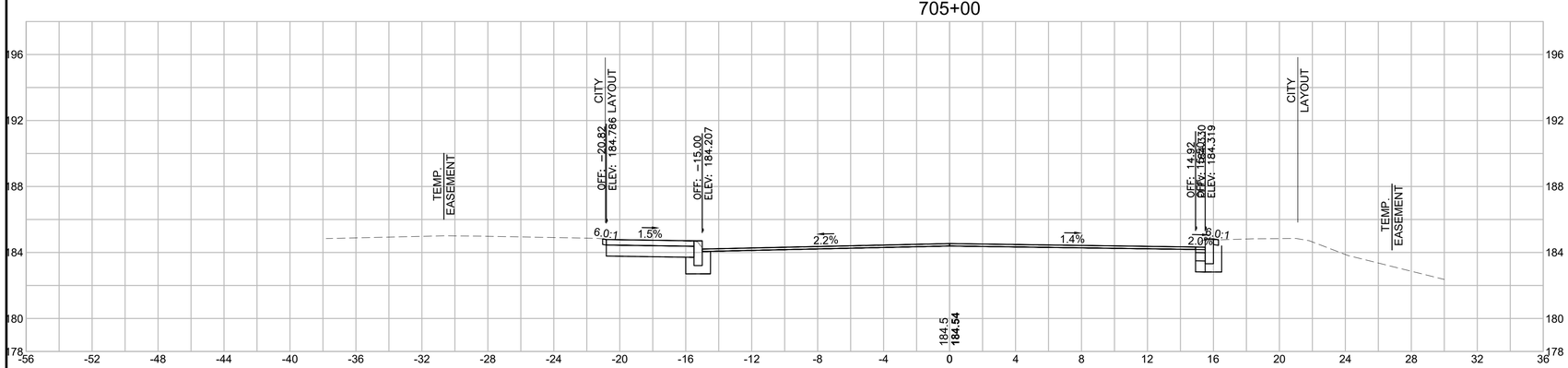
CROSS SECTIONS - CLIFTWOOD STREET



Total Volume at Station 705+50.00	
Cut Area (SF)	**33.62**
Fill Area (SF)	**0.00**
Cut Vol (CY)	**26.2**
Fill Vol (CY)	**0.0**
Cum Cut Vol (CY)	**455.7**
Cum Fill Vol (CY)	**1.5**
Net Vol (CY)	**454.2**



Total Volume at Station 705+25.00	
Cut Area (SF)	**22.92**
Fill Area (SF)	**0.00**
Cut Vol (CY)	**21.5**
Fill Vol (CY)	**0.0**
Cum Cut Vol (CY)	**429.5**
Cum Fill Vol (CY)	**1.5**
Net Vol (CY)	**428.0**



Total Volume at Station 705+00.00	
Cut Area (SF)	**23.53**
Fill Area (SF)	**0.00**
Cut Vol (CY)	**31.8**
Fill Vol (CY)	**0.0**
Cum Cut Vol (CY)	**408.0**
Cum Fill Vol (CY)	**1.5**
Net Vol (CY)	**406.5**

20121457A70_XSC01_CLIFTWOOD STREET.DWG Plotted on 5-May-2023 3:00 PM

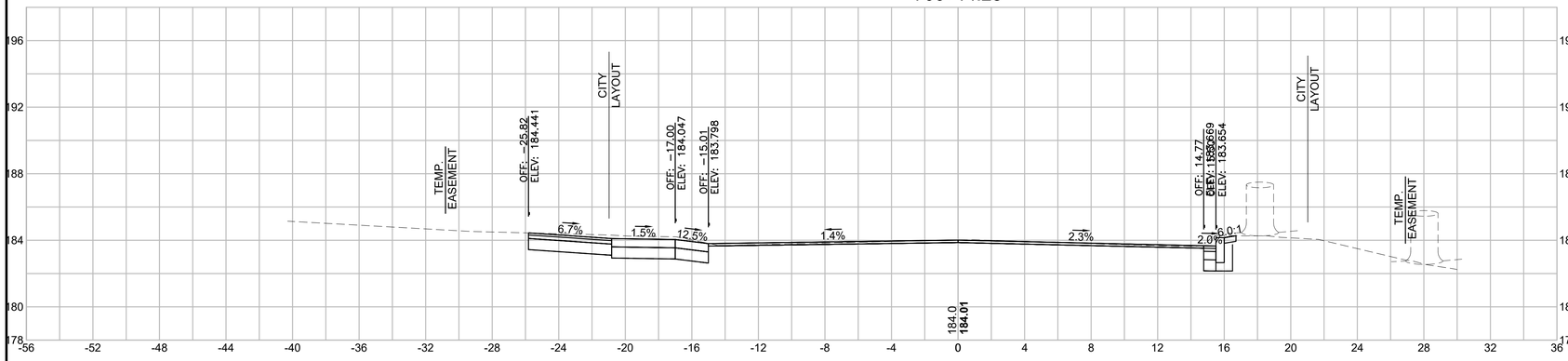
SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	353	358
	PROJECT FILE NO. 608717		

CROSS SECTIONS - CLIFTWOOD STREET

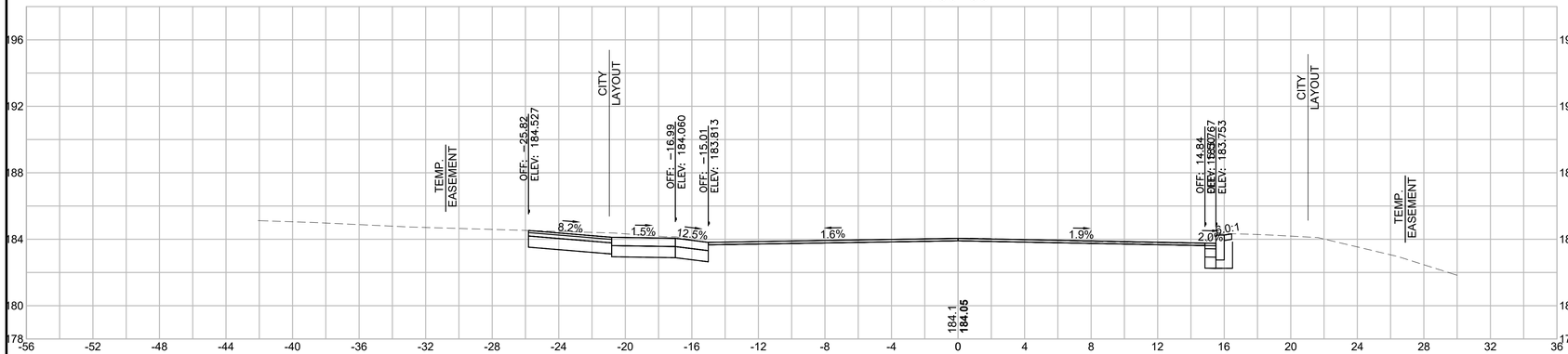
20121457A70_XSC01_CLIFTWOOD STREET.DWG Plotted on 5-May-2023 3:00 PM

706+14.28



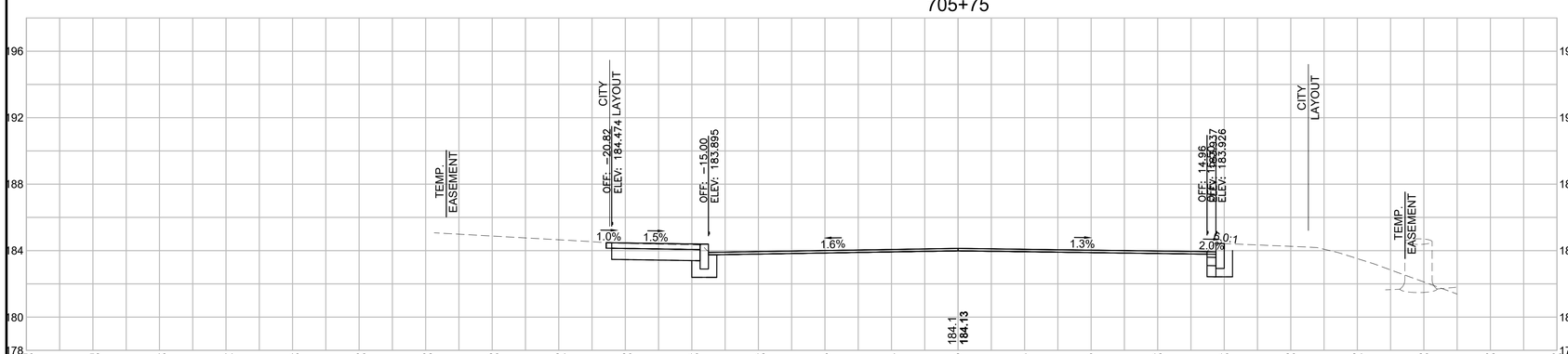
Total Volume at Station 706+14.28	
Cut Area (SF)	**37.02**
Fill Area (SF)	**0.00**
Cut Vol (CY)	**20.3**
Fill Vol (CY)	**0.0**
Cum Cut Vol (CY)	**531.8**
Cum Fill Vol (CY)	**1.5**
Net Vol (CY)	**530.3**

706+00



Total Volume at Station 706+00.00	
Cut Area (SF)	**39.70**
Fill Area (SF)	**0.00**
Cut Vol (CY)	**29.3**
Fill Vol (CY)	**0.0**
Cum Cut Vol (CY)	**511.5**
Cum Fill Vol (CY)	**1.5**
Net Vol (CY)	**510.0**

705+75



Total Volume at Station 705+75.00	
Cut Area (SF)	**23.62**
Fill Area (SF)	**0.00**
Cut Vol (CY)	**26.5**
Fill Vol (CY)	**0.0**
Cum Cut Vol (CY)	**482.2**
Cum Fill Vol (CY)	**1.5**
Net Vol (CY)	**480.7**

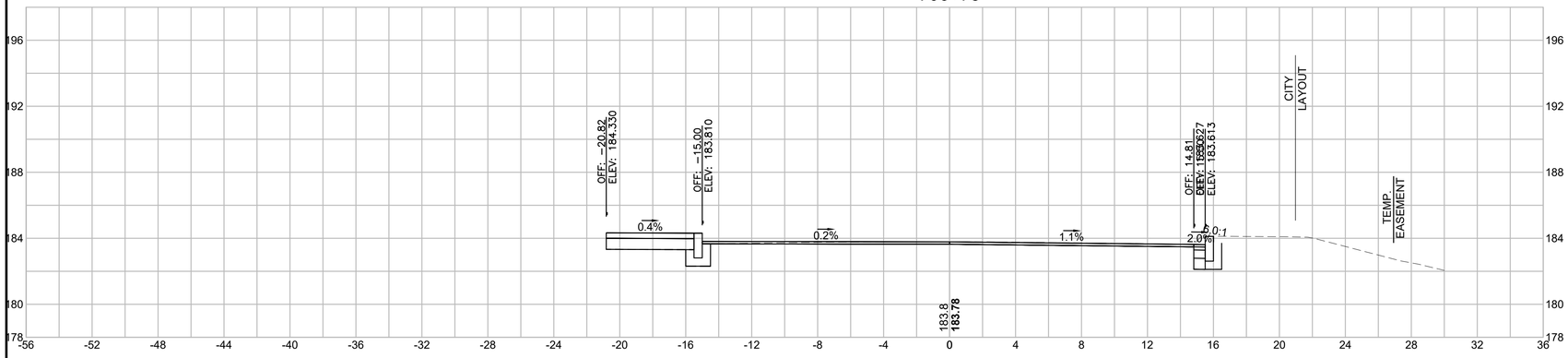
SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	354	358
	PROJECT FILE NO. 608717		

CROSS SECTIONS - CLIFTWOOD STREET

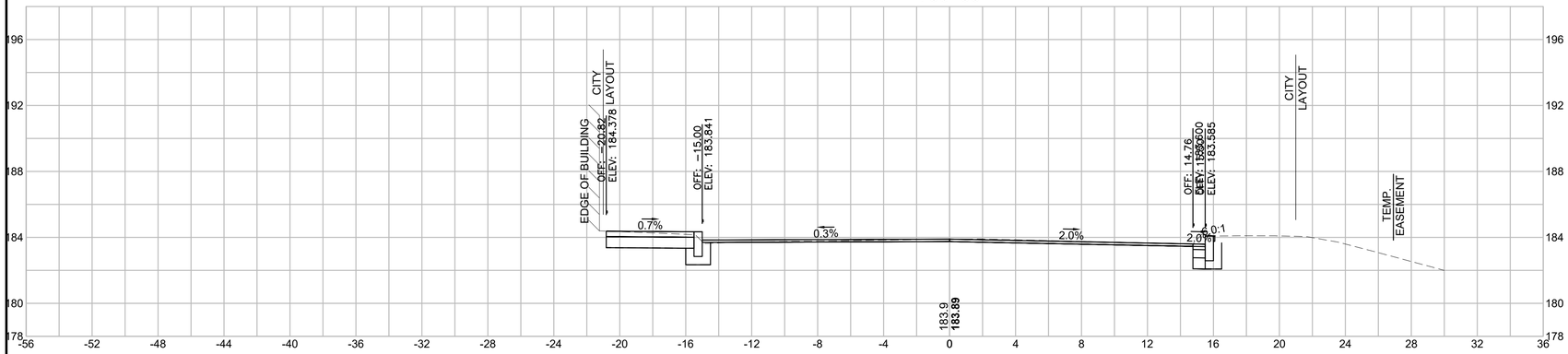
20121457A70_XSC01_CLIFTWOOD STREET.DWG Plotted on 5-May-2023 3:01 PM

706+75



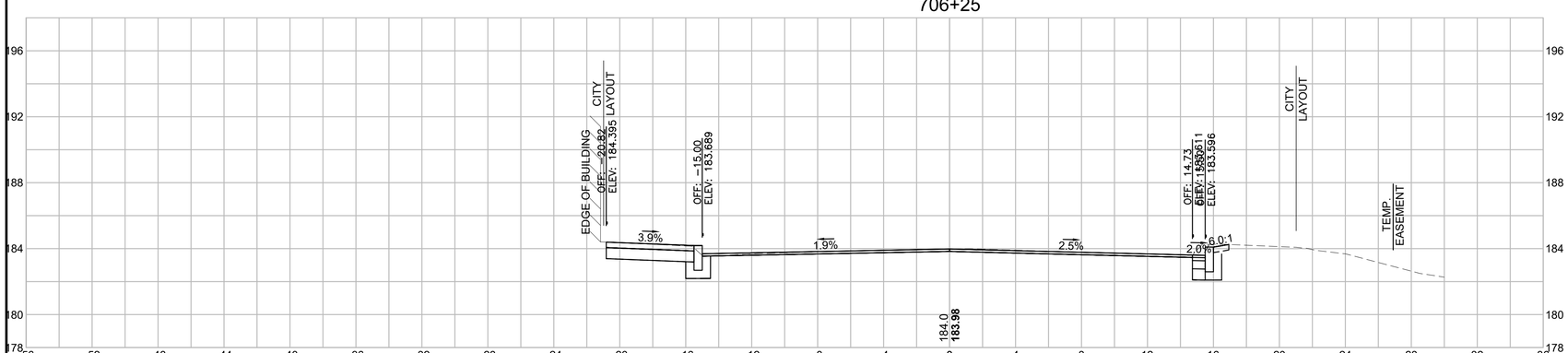
Total Volume at Station 706+75.00	
Cut Area (SF)	**7.72**
Fill Area (SF)	**0.00**
Cut Vol (CY)	**10.2**
Fill Vol (CY)	**0.0**
Cum Cut Vol (CY)	**566.0**
Cum Fill Vol (CY)	**1.6**
Net Vol (CY)	**564.4**

706+50



Total Volume at Station 706+50.00	
Cut Area (SF)	**14.21**
Fill Area (SF)	**0.05**
Cut Vol (CY)	**13.6**
Fill Vol (CY)	**0.0**
Cum Cut Vol (CY)	**555.8**
Cum Fill Vol (CY)	**1.5**
Net Vol (CY)	**554.3**

706+25



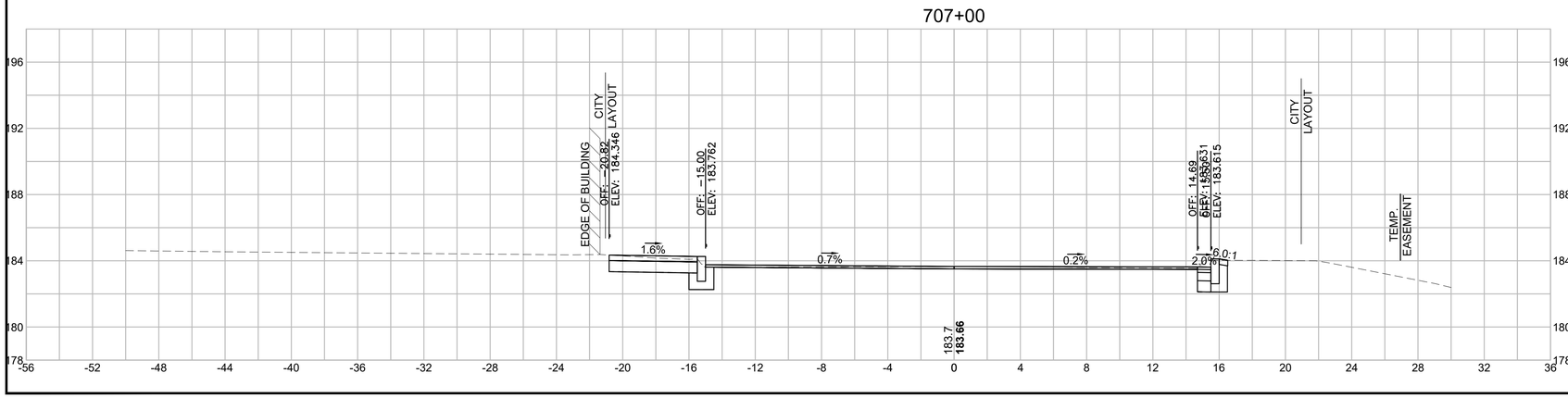
Total Volume at Station 706+25.00	
Cut Area (SF)	**15.21**
Fill Area (SF)	**0.01**
Cut Vol (CY)	**10.4**
Fill Vol (CY)	**0.0**
Cum Cut Vol (CY)	**542.2**
Cum Fill Vol (CY)	**1.5**
Net Vol (CY)	**540.7**

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	355	358
	PROJECT FILE NO. 608717		

CROSS SECTIONS - CLIFTWOOD STREET

20121457A70_XSC01_CLIFTWOOD STREET.DWG Plotted on 5-May-2023 3:01 PM

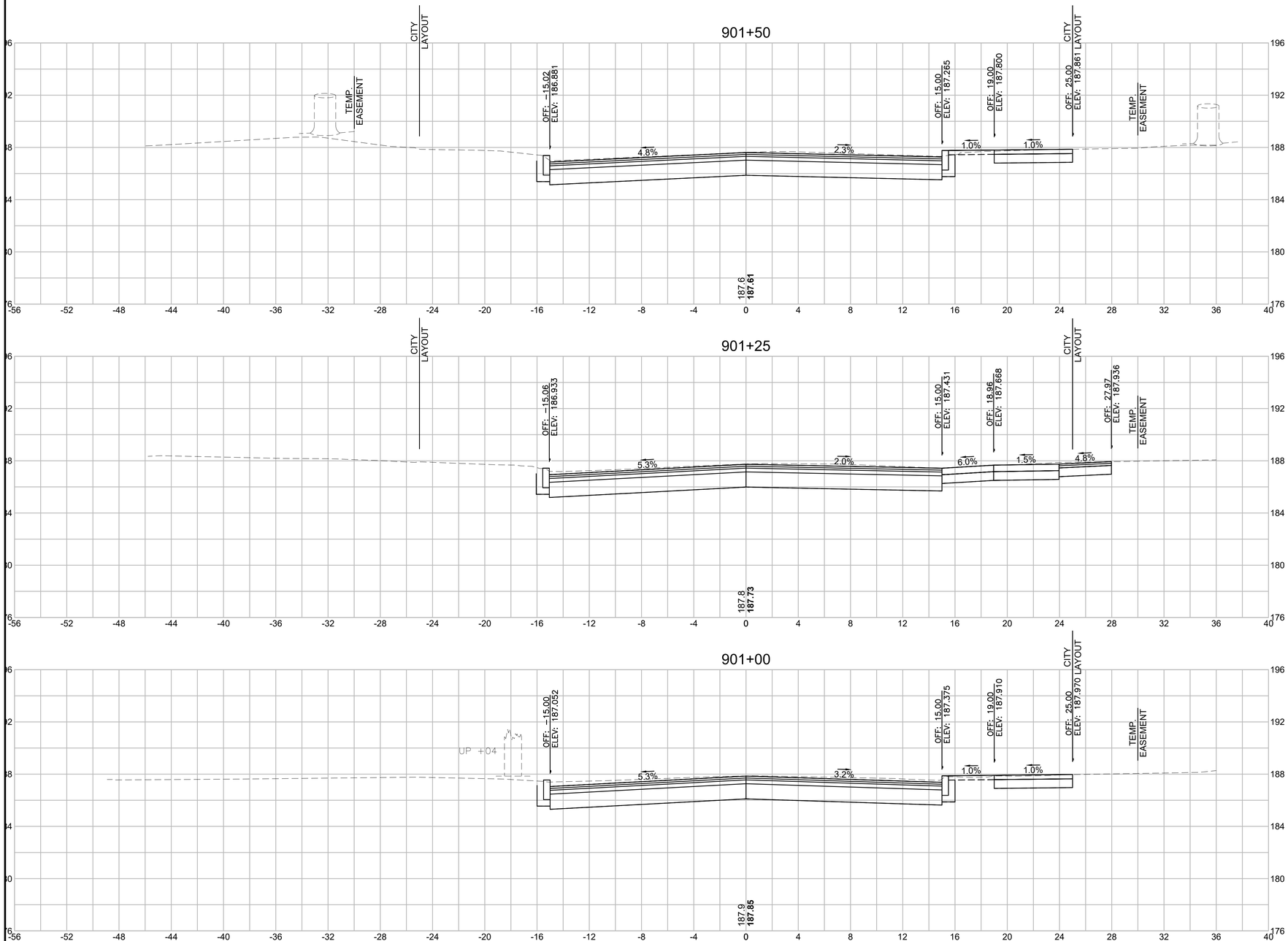


Total Volume at Station 707+00.00	
Cut Area (SF)	**42.78**
Fill Area (SF)	**0.00**
Cut Vol (CY)	**23.4**
Fill Vol (CY)	**0.0**
Cum Cut Vol (CY)	**589.3**
Cum Fill Vol (CY)	**1.6**
Net Vol (CY)	**587.8**

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	356	358
	PROJECT FILE NO. 608717		

CROSS SECTIONS - COMMONWEALTH AVENUE



Total Volume at Station 901+50.00	
Cut Area (SF)	**83.23**
Fill Area (SF)	**0.00**
Cut Vol (CY)	**72.8**
Fill Vol (CY)	**0.0**
Cum Cut Vol (CY)	**136.2**
Cum Fill Vol (CY)	**0.0**
Net Vol (CY)	**136.2**

Total Volume at Station 901+25.00	
Cut Area (SF)	**73.93**
Fill Area (SF)	**0.00**
Cut Vol (CY)	**63.4**
Fill Vol (CY)	**0.0**
Cum Cut Vol (CY)	**63.4**
Cum Fill Vol (CY)	**0.0**
Net Vol (CY)	**63.4**

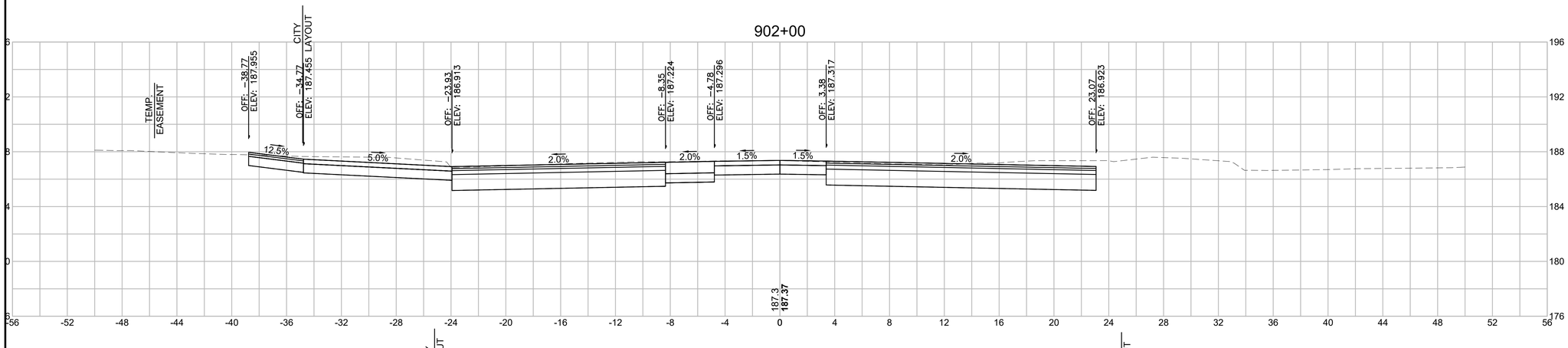
Total Volume at Station 901+00.00	
Cut Area (SF)	**63.00**
Fill Area (SF)	**0.00**
Cut Vol (CY)	**0.0**
Fill Vol (CY)	**0.0**
Cum Cut Vol (CY)	**0.0**
Cum Fill Vol (CY)	**0.0**
Net Vol (CY)	**0.0**

20121457A70_XSC01_BELMONT.DWG Plotted on 5-May-2023 3:02 PM

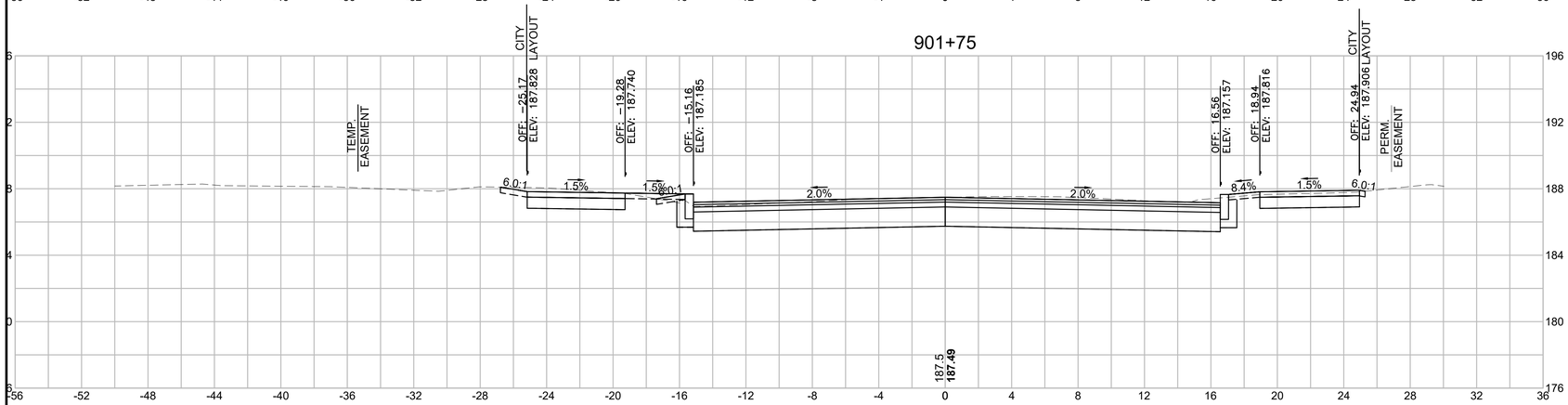
SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	357	358
	PROJECT FILE NO. 608717		

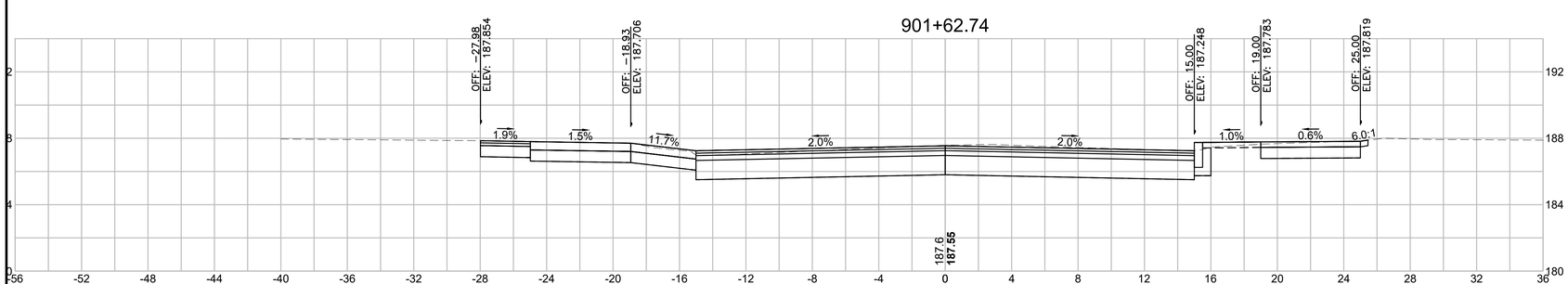
CROSS SECTIONS - COMMONWEALTH AVENUE



Total Volume at Station 902+00.00	
Cut Area (SF)	**94.47**
Fill Area (SF)	**0.00**
Cut Vol (CY)	**73.5**
Fill Vol (CY)	**0.0**
Cum Cut Vol (CY)	**281.6**
Cum Fill Vol (CY)	**0.3**
Net Vol (CY)	**281.3**



Total Volume at Station 901+75.00	
Cut Area (SF)	**65.36**
Fill Area (SF)	**0.00**
Cut Vol (CY)	**33.1**
Fill Vol (CY)	**0.2**
Cum Cut Vol (CY)	**208.1**
Cum Fill Vol (CY)	**0.3**
Net Vol (CY)	**207.8**



Total Volume at Station 901+62.74	
Cut Area (SF)	**81.54**
Fill Area (SF)	**0.57**
Cut Vol (CF)	**38.9**
Fill Vol (CF)	**0.1**
Cum Cut Vol (CF)	**175.0**
Cum Fill Vol (CF)	**0.1**
Net Vol (CF)	**174.9**

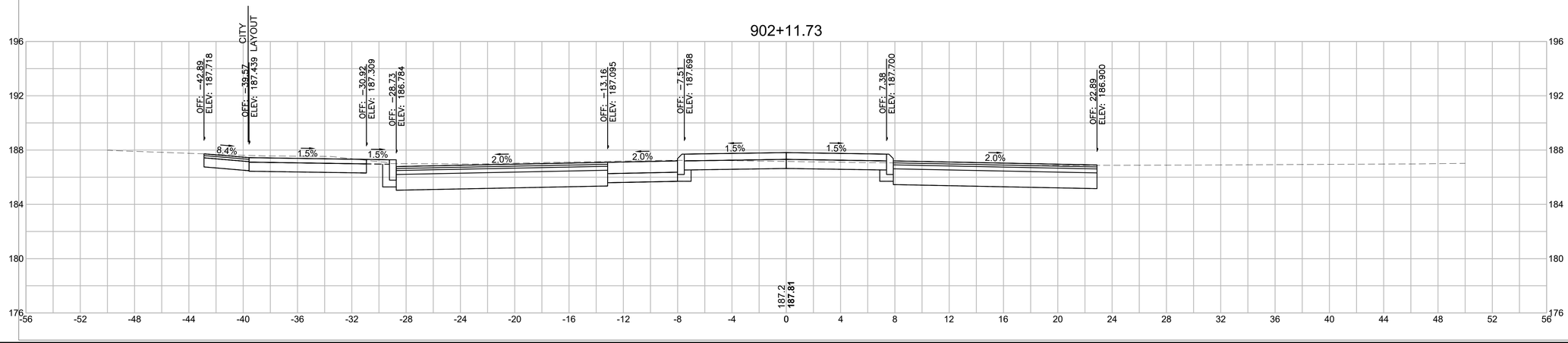
20121457A70_XSC01_BELMONT.DWG Plotted on 5-May-2023 3:03 PM

SPRINGFIELD
THE 'X" INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	358	358
	PROJECT FILE NO. 608717		

CROSS SECTIONS - COMMONWEALTH AVENUE

Plotted on 5-May-2023 3:03 PM
20121457A70_XSC01_BELMONT.DWG



Total Volume at Station 902+11.73	
Cut Area (SF)	**116.13**
Fill Area (SF)	**0.01**
Cut Vol (CY)	**45.8**
Fill Vol (CY)	**0.0**
Cum Cut Vol (CY)	**327.4**
Cum Fill Vol (CY)	**0.3**
Net Vol (CY)	**327.1**