

CITY OF NORTHFIELD, MINNESOTA

CONSTRUCTION PLANS FOR

2026 JEFFERSON PARKWAY

M&O AND MTST

BITUMINOUS MILL AND OVERLAY, BITUMINOUS TRAIL,
CONCRETE CURB AND GUTTER, CONCRETE WALK, ADA IMPROVEMENTS,
AND STORM SEWER

FEBRUARY, 2026

RESOURCE LIST

CITY OF NORTHFIELD

City Hall
801 Washington Street
Northfield, MN 55057
645-8833

City Administrator:
Ben Martig

Mayor: Erica Zweifel

City Council Members:
Kathleen Holmes
Chad Beumer
Peter Dahlen
Jessica Peterson White
Brad Ness
Davin Sokup

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507-645-3006

Engineering Manager:
Sean Simonson
507-645-3049

Utility Manager:
Justin Wagner
507-645-3083

Utilities Supervisor:
Hunter Redfield
507-645-3088

UTILITIES

GAS

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612-919-1616
Nathan.M.Luedtke@xcelenergy.com

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charles.snyder@charter.com

Lumen (CenturyLink)
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Zayo

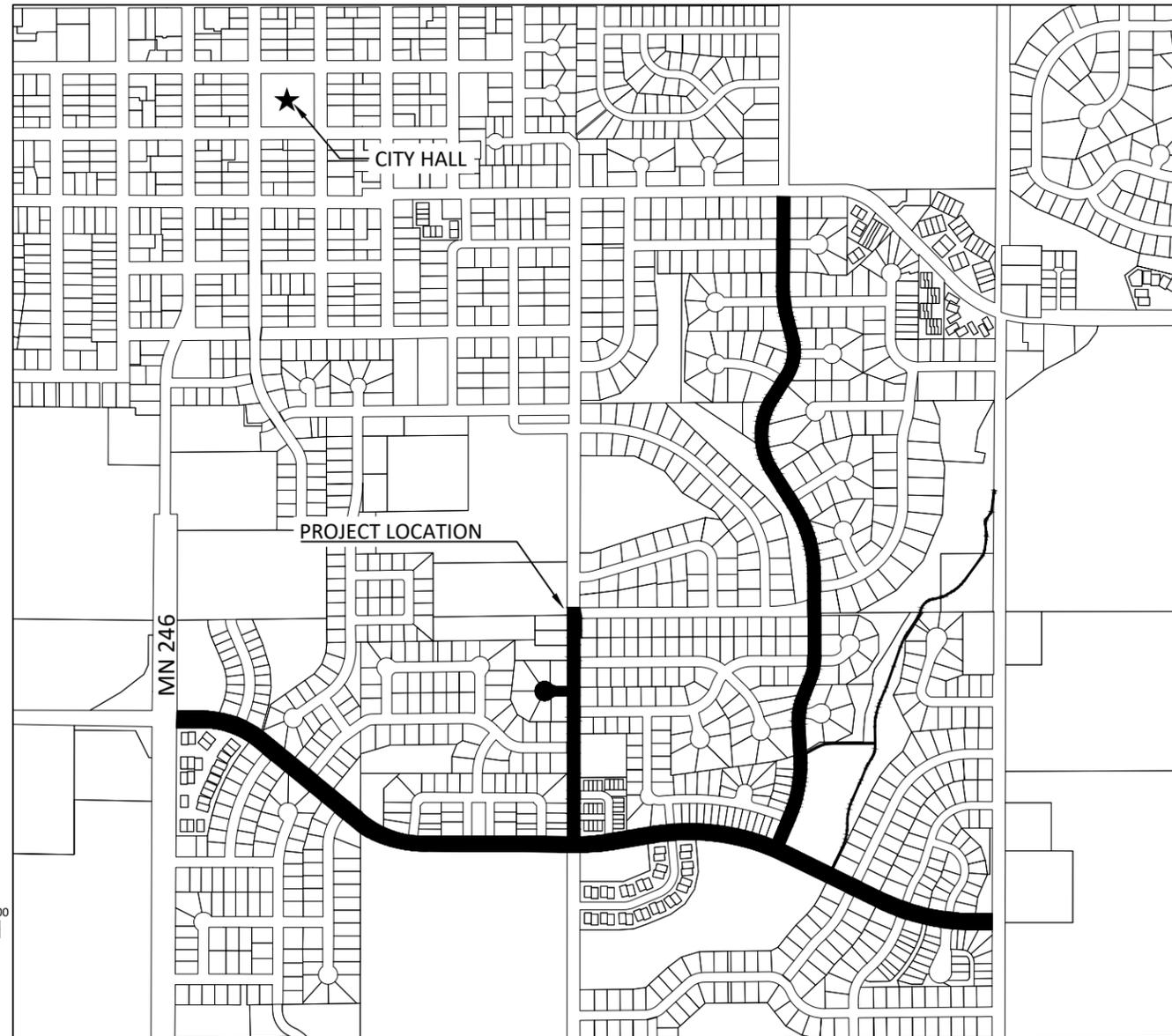
Lance McCrimmon
714-926-8725
lmccrimmon@congruex.com

ELECTRIC

Xcel Energy - Electric
Michael Palmer
507-334-2970
michael.t.palmer@xcelenergy.com

STREET LIGHTING

Xcel Energy
Damon Erickson
612-237-1449
damon.g.erickson@xcelenergy.com



SHEET NUMBER	SHEET TITLE
GENERAL	
G0.01 - G0.02	TITLE SHEET, LEGEND
G0.03	GENERAL NOTES
G1.01 - G1.02	STATEMENT OF ESTIMATED QUANTITIES, TABLES
CIVIL	
C0.01 - C0.10	EXISTING CONDITIONS, REMOVALS PLAN
C1.01	PHASING PLAN
C1.02 - C1.16	DETAILS, STANDARD PLATES
C2.01 - C2.13	SWPPP, EROSION CONTROL
C3.01 - C3.02	GRADING PLAN
C5.01 - C5.05	STORM SEWER
C6.01 - C6.03	CONSTRUCTION
C6.04 - C6.18	PLAN & PROFILE
C6.19 - C6.47	INTERSECTION DETAILS
C7.01 - C7.08	SIGNING & STRIPING
C7.09 - C7.11	DETOUR PLAN
C8.01 - C8.22	CROSS SECTIONS
LANDSCAPING	
L1.01 - L1.09	LANDSCAPING PLAN
THIS PLAN SET CONTAINS <u>140</u> SHEETS.	

NOTE: EXISTING UTILITY INFORMATION SHOWN ON THIS PLAN HAS BEEN PROVIDED BY THE UTILITY OWNER. THE CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS PRIOR TO COMMENCING CONSTRUCTION AS REQUIRED BY STATE LAW. NOTIFY GOPHER STATE ONE CALL, 1-800-252-1166 OR 651-454-0002.

THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL D UNLESS OTHERWISE NOTED. THIS UTILITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CI/ASCE 38-22, ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA."



REVIEWED & APPROVED _____ DATE: _____
PUBLIC WORKS DIRECTOR / CITY ENGINEER

+ BM=914.680 MNDOT MON. NAME CLAIRE NW QUAD OF MN STATE HWYS NO. 3 & NO. 246	PROJECT DATUM: HORIZONTAL: RICE COUNTY NAD83 (1996) VERTICAL: NAVD88	RECORD DRAWING INFORMATION OBSERVER: CONTRACTOR: DATE:
	NORTHFIELD, MINNESOTA 2026 JEFFERSON PKWY M&O AND MTST TITLE SHEET	

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

DAVID E BENNETT, P.E.
LIC. NO. 45867 DATE XX/XX/XXXX



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DESIGNED	DRAWN	CHECKED	CLIENT PROJ. NO.
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EXISTING TOPOGRAPHIC SYMBOLS

	ACCESS GRATE		REGULATION STATION GAS
	AIR CONDITION UNIT		SATELLITE DISH
	ANTENNA		SIGN NON TRAFFIC
	AUTO SPRINKLER CONNECTION		SIGN TRAFFIC
	BARRICADE PERMANENT		SIGNAL CONTROL CABINET
	BASKETBALL POST		SOIL BORING
	BENCH		SIREN
	BIRD FEEDER		TELEPHONE BOOTH
	BOLLARD		TILE INLET
	BUSH		TILE OUTLET
	CATCH BASIN RECTANGULAR CASTING		TILE RISER
	CATCH BASIN CIRCULAR CASTING		TRANSFORMER-ELECTRIC
	CURB STOP		TREE-CONIFEROUS
	CLEAN OUT		TREE-DEAD
	CULVERT END		TREE-DECIDUOUS
	DRINKING FOUNTAIN		TREE STUMP
	DOWN SPOUT		TRAFFIC ARM BARRIER
	FILL PIPE		TRAFFIC SIGNAL
	FIRE HYDRANT		TRASH CAN
	FLAG POLE		UTILITY MARKER
	FLARED END / APRON		VALVE
	FUEL PUMP		VALVE POST INDICATOR
	GRILL		VALVE VAULT
	GUY WIRE ANCHOR		VAULT
	HANDHOLE		VENT PIPE
	HANDICAP SPACE		WATER SPIGOT
	IRRIGATION SPRINKLER HEAD		WELL
	IRRIGATION VALVE BOX		WETLAND DELINEATED MARKER
	LIFT STATION CONTROL PANEL		WETLAND
	LIFT STATION		WET WELL
	LIGHT ON POLE		YARD HYDRANT
	LIGHT-GROUND		
	MAILBOX		
	MANHOLE-COMMUNICATION		
	MANHOLE-ELECTRIC		
	MANHOLE-GAS		
	MANHOLE-HEAT		
	MANHOLE-SANITARY SEWER		
	MANHOLE-STORM SEWER		
	MANHOLE-UTILITY		
	MANHOLE-WATER		
	METER		
	ORDER MICROPHONE		
	PARKING METER		
	PAVEMENT MARKING		
	PEDESTAL-COMMUNICATION		
	PEDESTAL-ELECTRIC		
	PEDESTRIAN PUSH BUTTON		
	PICNIC TABLE		
	POLE-UTILITY		
	POLE-BRACE		
	POST		
	RAILROAD SIGNAL POLE		

PROPOSED TOPOGRAPHIC SYMBOLS

	CLEANOUT
	MANHOLE
	LIFT STATION
	STORM SEWER CIRCULAR CASTING
	STORM SEWER RECTANGULAR CASTING
	STORM SEWER FLARED END / APRON
	STORM SEWER OUTLET STRUCTURE
	STORM SEWER OVERFLOW STRUCTURE
	CURB BOX
	FIRE HYDRANT
	WATER VALVE
	WATER REDUCER
	WATER BEND
	WATER TEE
	WATER CROSS
	WATER SLEEVE
	WATER CAP / PLUG
	RIP RAP
	DRAINAGE FLOW
	TRAFFIC SIGNS

SURVEY SYMBOLS

	BENCHMARK LOCATION		CAST IRON MONUMENT
	CONTROL POINT		STONE MONUMENT
	MONUMENT FOUND		

EXISTING TOPOGRAPHIC LINES

	RETAINING WALL
	FENCE
	FENCE-DECORATIVE
	GUARD RAIL
	TREE LINE
	BUSH LINE

SURVEY LINES

	CONTROLLED ACCESS BOUNDARY
	CENTERLINE
	EXISTING EASEMENT LINE
	PROPOSED EASEMENT LINE
	EXISTING LOT LINE
	PROPOSED LOT LINE
	EXISTING RIGHT-OF-WAY
	PROPOSED RIGHT-OF-WAY
	SETBACK LINE
	SECTION LINE
	QUARTER LINE
	SIXTEENTH LINE
	TEMPORARY EASEMENT

EXISTING UTILITY LINES

	FORCEMAIN
	SANITARY SEWER
	SANITARY SERVICE
	STORM SEWER
	STORM SEWER DRAIN TILE
	WATERMAIN
	WATER SERVICE

PROPOSED UTILITY LINES

	FORCEMAIN
	SANITARY SEWER
	SANITARY SERVICE
	STORM SEWER
	STORM SEWER DRAIN TILE
	WATERMAIN
	WATER SERVICE
	PIPE CASING
	TRENCHLESS PIPE (PLAN VIEW)
	TRENCHLESS PIPE (PROFILE VIEW)

GRADING INFORMATION

	EXISTING CONTOUR MINOR
	EXISTING CONTOUR MAJOR
	PROPOSED CONTOUR MINOR
	PROPOSED CONTOUR MAJOR
	PROPOSED GRADING LIMITS / SLOPE LIMITS
	PROJECT LIMITS
	PROPOSED SPOT ELEVATION
	RISE:RUN (SLOPE)

HATCH PATTERNS

	BITUMINOUS		GRAVEL
	CONCRETE		

EXISTING PRIVATE UTILITY LINES

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	FO		UNDERGROUND FIBER OPTIC
	P-BUR		UNDERGROUND ELECTRIC
	G		UNDERGROUND GAS
	C		UNDERGROUND COMMUNICATION
	OE		OVERHEAD ELECTRIC
	OC		OVERHEAD COMMUNICATION
	OU		OVERHEAD UTILITY

UTILITIES IDENTIFIED WITH A QUALITY LEVEL :

LINE TYPES FOLLOW THE FORMAT: UTILITY TYPE - QUALITY LEVEL
EXAMPLE: UNDERGROUND GAS, QUALITY LEVEL A
UTILITY QUALITY LEVEL (A,B,C,D) DEFINITIONS CAN BE FOUND IN CI/ASCE 38-02.

UTILITY QUALITY LEVELS:

QUALITY LEVEL D: PROVIDES THE MOST BASIC LEVEL OF INFORMATION. IT INVOLVES COLLECTING DATA FROM EXISTING UTILITY RECORDS. RECORDS MAY INCLUDE AS-BUILT DRAWINGS, DISTRIBUTION AND SERVICES MAPS, EXISTING GEOGRAPHIC INFORMATION SYSTEM DATABASES, CONSTRUCTION PLANS, ETC.

QUALITY LEVEL C: INVOLVES SURVEYING VISIBLE SUBSURFACE UTILITY STRUCTURES SUCH AS MANHOLES, HAND-HOLES, UTILITY VALVES AND METERS, FIRE HYDRANTS, PEDESTALS AND UTILITY MARKERS, AND THEN CORRELATING THE INFORMATION WITH EXISTING UTILITY RECORDS TO CREATE COMPOSITE DRAWINGS. INCLUDES QUALITY LEVEL D ACTIVITIES.

QUALITY LEVEL B: INVOLVES DESIGNATING THE HORIZONTAL POSITION OF SUBSURFACE UTILITIES THROUGH SURFACE DETECTION METHODS AND COLLECTING THE INFORMATION THROUGH A SURVEY METHOD. INCLUDES QUALITY LEVEL C AND D TASKS.

QUALITY LEVEL A: PROVIDES THE HIGHEST LEVEL OF ACCURACY. IT INVOLVES LOCATING OR POTHOLING UTILITIES AS WELL AS ACTIVITIES IN QUALITY LEVELS B, C, AND D. THE LOCATED FACILITY INFORMATION IS SURVEYED AND MAPPED AND THE DATA PROVIDES PRECISE PLAN AND PROFILE INFORMATION.

ABBREVIATIONS

A	ALGEBRAIC DIFFERENCE	GRAV	GRAVEL	RSC	RIGID STEEL CONDUIT
ADJ	ADJUST	GU	GUTTER	RT	RIGHT
ALT	ALTERNATE	GV	GATE VALVE	SAN	SANITARY SEWER
B-B	BACK TO BACK	HDPE	HIGH DENSITY POLYETHYLENE	SCH	SCHEDULE
BIT	BITUMINOUS	HH	HANDHOLE	SERV	SERVICE
BLDG	BUILDING	HP	HIGH POINT	SHLD	SHOULDER
BMP	BEST MANAGEMENT PRACTICE	HWL	HIGH WATER LEVEL	STA	STATION
BR	BEGIN RADIUS	HYD	HYDRANT	STD	STANDARD
BV	BUTTERFLY VALVE	I	INVERT	STM	STORM SEWER
CB	CATCH BASIN	K	CURVE COEFFICIENT	TC	TOP OF CURB
C&G	CURB AND GUTTER	L	LENGTH	TE	TEMPORARY EASEMENT
CIP	CAST IRON PIPE	LO	LOWEST OPENING	TEMP	TEMPORARY
CIPP	CURED-IN-PLACE PIPE	LP	LOW POINT	TNH	TOP NUT HYDRANT
CL	CENTER LINE	LT	LEFT	TP	TOP OF PIPE
CL	CLASS	MAX	MAXIMUM	TYP	TYPICAL
CLVT	CULVERT	MH	MANHOLE	VCP	VITRIFIED CLAY PIPE
CMP	CORRUGATED METAL PIPE	MIN	MINIMUM	VERT	VERTICAL
C.O.	CHANGE ORDER	MR	MID RADIUS	VPC	VERTICAL POINT OF CURVE
COMM	COMMUNICATION	NIC	NOT IN CONTRACT	VPI	VERTICAL POINT OF INTERSECTION
CON	CONCRETE	NMC	NON-METALLIC CONDUIT	VPT	VERTICAL POINT OF TANGENT
CSP	CORRUGATED STEEL PIPE	NTS	NOT TO SCALE	WM	WATERMAIN
DIA	DIAMETER	NWL	NORMAL WATER LEVEL		
DIP	DUCTILE IRON PIPE	OHW	ORDINARY HIGH WATER LEVEL		
DWY	DRIVEWAY	PC	POINT OF CURVE	AC	ACRES
E	EXTERNAL CURVE DISTANCE	PCC	POINT OF COMPOUND CURVE	CF	CUBIC FEET
ELEC	ELECTRIC	PE	PERMANENT EASEMENT	CV	COMPACTED VOLUME
ELEV	ELEVATION	PED	PEDESTRIAN, PEDESTAL	CY	CUBIC YARD
E.O.F	EMERGENCY OVERFLOW	PERF	PERFORATED PIPE	EA	EACH
ER	END RADIUS	PERM	PERMANENT	EV	EXCAVATED VOLUME
ESMT	EASEMENT	PI	POINT OF INTERSECTION	LB	POUND
EX	EXISTING	PL	PROPERTY LINE	LF	LINEAR FEET
FES	FLARED END SECTION	PRC	POINT OF REVERSE CURVE	LS	LUMP SUM
F-F	FACE TO FACE	PT	POINT OF TANGENT	LV	LOOSE VOLUME
FF	FINISHED FLOOR	PVC	POLYVINYL CHLORIDE PIPE	SF	SQUARE FEET
F&I	FURNISH AND INSTALL	PVMT	PAVEMENT	SV	STOCKPILE VOLUME
FM	FORCEMAIN	R	RADIUS	SY	SQUARE YARD
FO	FIBER OPTIC	R/W	RIGHT-OF-WAY		
F.O.	FIELD ORDER	RCP	REINFORCED CONCRETE PIPE		
GRAN	GRANULAR	RET	RETAINING		

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I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

DAVID E BENNETT, P.E.
LIC. NO. 45867 DATE XX/XX/XXXX



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DESIGNED	DRAWN	CHECKED	DATE
JDI	JDI	SMS	STR 2026 - A83

NORTHFIELD, MINNESOTA	
2026 JEFFERSON PKWY M&O AND MTST	
LEGEND	

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STATEMENT OF ESTIMATED QUANTITIES

ITEM NO.	SPEC. REF	DESCRIPTION	NOTES	UNIT	TOTAL ESTIMATED QUANTITY
1	2021.501	MOBILIZATION		LUMP SUM	1
2	2101.502	CLEARING		EACH	69
3	2101.502	GRUBBING		EACH	69
4	2101.505	CLEARING		ACRE	1
5	2101.505	GRUBBING		ACRE	1
6	2104.502	REMOVE CONCRETE APRON		EACH	2
7	2104.502	REMOVE CASTING		EACH	8
8	2104.502	REMOVE GATE VALVE & BOX		EACH	1
9	2104.502	REMOVE HYDRANT		EACH	1
10	2104.502	REMOVE DRAINAGE STRUCTURE		EACH	9
11	2104.502	REMOVE SIGN		EACH	59
12	2104.502	SALVAGE SIGN	(1)	EACH	43
13	2105.502	SALVAGE MAIL BOX SUPPORT	(2)	EACH	1
14	2104.503	SAWING BITUMINOUS PAVEMENT (FULL DEPTH)		LIN FT	1992
15	2104.503	REMOVE WATER MAIN		LIN FT	3
16	2104.503	REMOVE SEWER PIPE (STORM)		LIN FT	320
17	2104.503	REMOVE CURB & GUTTER		LIN FT	9156
18	2104.504	REMOVE CONCRETE MEDIAN		SQ YD	381
19	2104.504	REMOVE CONCRETE DRIVEWAY PAVEMENT		SQ YD	168
20	2104.504	REMOVE CONCRETE PAVEMENT		SQ YD	160
21	2104.504	REMOVE BITUMINOUS PAVEMENT	(3)	SQ YD	9208
22	2104.518	REMOVE BITUMINOUS WALK	(3)	SQ FT	19132
23	2104.518	REMOVE CONCRETE WALK		SQ FT	46853
24	2104.602	RELOCATE STREET LIGHT		EACH	1
25	2104.607	REMOVE RIPRAP		CU YD	60
26	2104.618	REMOVE AGGREGATE SURFACING		SQ YD	132
27	2106.507	EXCAVATION - COMMON	(CV) (P)	CU YD	3034
28	2106.507	EXCAVATION - MUCK	(CV) (4)	CU YD	960
29	2106.507	EXCAVATION - SUBGRADE	(CV)	CU YD	420
30	2106.507	EXCAVATION - CHANNEL AND POND	(CV)	CU YD	210
31	2106.507	SELECT GRANULAR EMBANKMENT	(CV)	CU YD	420
32	2106.507	COMMON EMBANKMENT	(CV) (P)	CU YD	940
33	2106.507	STABILIZING AGGREGATE	(CV) (4)	CU YD	960
34	2106.607	COMMON EMBANKMENT (CHANNEL AND POND)	(CV) (P)	CU YD	90
35	2108.504	GEOTEXTILE FABRIC TYPE 1	(P)	SQ YD	119
36	2108.507	GEOTEXTILE FABRIC TYPE 5		SQ YD	2470
37	2123.510	COMMON LABORERS	(4)	HR	20
38	2123.610	STREET SWEEPER (WITH PICKUP BROOM)	(4)	HR	60
39	2123.610	EXPLORATORY EXCAVATION	(4)	HR	10
40	2211.507	AGGREGATE BASE CLASS 5	(CV)	CU YD	1180
41	2231.604	BITUMINOUS PATCH SPECIAL 1		SQ YD	7908
42	2231.604	BITUMINOUS PATCH SPECIAL 2		SQ YD	2223
43	2232.504	MILL BITUMINOUS SURFACE (2.0")		SQ YD	44450
44	2232.618	MILL AND PATCH BITUMINOUS PAVEMENT		SQ FT	12594
45	2301.504	CONCRETE PAVEMENT 8.0"		SQ YD	173
46	2301.602	1.0" DOWEL BAR		EACH	658
47	2301.602	DRILL & GROUT DOWEL BAR (EPOXY COATED)		EACH	282
48	2302.508	SUPPLEMENTAL REINFORCEMENT BARS (EPOXY COATED)		POUND	500
49	2357.506	BITUMINOUS MATERIAL FOR TACK COAT		GAL	2670
50	2360.504	TYPE SP 9.5 WEARING COURSE MIXTURE (2,B) 2.5" THICK	(5)	SQ YD	7009
51	2360.504	TYPE SP 9.5 WEARING COURSE MIXTURE (2,B) 3.0" THICK	(5)	SQ YD	1905
52	2360.509	TYPE SP 9.5 WEARING COURSE MIXTURE (3,C)		TON	4974
53	2451.507	FINE FILTER AGGREGATE	(LV) (P)	CU YD	80
54	2501.502	30" RC PIPE APRON	(6)	EACH	1
55	2501.502	48" RC PIPE APRON	(6)	EACH	1
56	2502.503	4" PERF PE PIPE DRAIN	(8)	LIN FT	158
57	2502.503	4" PERF PE PIPE DRAIN (FILTRATION SWALE)	(8)	LIN FT	390
58	2502.602	4" PVC PIPE DRAIN CLEANOUT		EACH	10
59	2503.503	8" PVC PIPE SEWER SDR 35		LIN FT	71
60	2503.503	12" RC PIPE SEWER CLASS V		LIN FT	8
61	2503.503	15" RC PIPE SEWER CLASS III		LIN FT	249
62	2503.503	18" RC PIPE SEWER CLASS II		LIN FT	110
63	2503.503	24" RC PIPE SEWER CLASS II		LIN FT	8
64	2503.503	27" RC PIPE SEWER CLASS III		LIN FT	32
65	2503.503	33" RC PIPE SEWER CLASS III		LIN FT	8
66	2503.503	42" RC PIPE SEWER CLASS III		LIN FT	8
67	2503.602	4" PIPE DRAIN OUTLET WITH RODENT GUARD		EACH	2
68	2503.602	CONNECT TO EXISTING STORM SEWER		EACH	19
69	2503.602	CONNECT TO EXISTING STRUCTURE		EACH	6
70	2504.602	CONNECT TO EXISTING WATER MAIN		EACH	1

STATEMENT OF ESTIMATED QUANTITIES

ITEM NO.	SPEC. REF	DESCRIPTION	NOTES	UNIT	TOTAL ESTIMATED QUANTITY
71	2504.602	HYDRANT		EACH	1
72	2504.602	ADJUST GATE VALVE & BOX		EACH	45
73	2504.602	6" GATE VALVE & BOX		EACH	1
74	2504.602	IRRIGATION SYSTEM REPAIR		EACH	15
75	2504.603	6" WATERMAIN DUCTILE IRON CL 52		LIN FT	3
76	2506.502	CASTING ASSEMBLY		EACH	23
77	2506.502	ADJUST FRAME AND RING CASTING (STORM)		EACH	107
78	2506.502	ADJUST FRAME AND RING CASTING (SANITARY)		EACH	28
79	2506.503	CONSTRUCT DRAINAGE STRUCTURE DESIGN H		LIN FT	3
80	2506.503	CONSTRUCT DRAINAGE STRUCTURE DESIGN SPECIAL (2' X 3' CB)		LIN FT	16
81	2506.503	CONSTRUCT DRAINAGE STRUCTURE DESIGN 48-4022		LIN FT	59
82	2506.503	CONSTRUCT DRAINAGE STRUCTURE DESIGN 60-4022		LIN FT	5
83	2506.503	CONSTRUCT DRAINAGE STRUCTURE DESIGN 60-4020		LIN FT	7
84	2506.503	CONSTRUCT DRAINAGE STRUCTURE DESIGN 84-4022		LIN FT	6
85	2506.602	RECONSTRUCT DRAINAGE STRUCTURE		EACH	6
86	2506.602	GROUT CATCH BASIN OR MANHOLE		EACH	24
87	2506.602	REPAIR DRAINAGE STRUCTURE		EACH	24
88	2511.507	RANDOM RIPRAP CLASS III	(9)	CU YD	58
89	2521.518	4" CONCRETE WALK	(5)	SQ FT	13662
90	2521.518	4" CONCRETE WALK SPECIAL (POETRY)	(5)	SQ FT	125
91	2521.518	6" CONCRETE WALK	(5)	SQ FT	16643
92	2531.503	CONCRETE CURB & GUTTER DESIGN B618		LIN FT	10055
93	2531.504	6" CONCRETE DRIVEWAY PAVEMENT	(5)	SQ YD	64
94	2531.602	CONCRETE MEDIAN NOSE		EACH	20
95	2531.603	CONCRETE CURB DESIGN V		LIN FT	750
96	2531.604	7" CONCRETE VALLEY GUTTER		SQ YD	385
97	2531.618	TRUNCATED DOMES		SQ FT	1746
98	2531.618	4" CONCRETE MEDIAN PAVEMENT	(5)	SQ FT	5023
99	2531.618	6" CONCRETE WALK SPECIAL 1	(5)	SQ FT	194
100	2531.618	6" CONCRETE WALK SPECIAL 2	(5)	SQ FT	149
101	2540.602	INSTALL MAIL BOX SUPPORT	(1)	EACH	1
102	2540.621	LANDSCAPING RESTORATION ALLOWANCE		DOL	1
103	2563.601	TRAFFIC CONTROL		LUMP SUM	1
104	2564.502	INSTALL SIGN		EACH	48
105	2564.602	INSTALL SIGN (MILL TOWNS STATE TRAIL)	(12)	EACH	20
106	2564.618	SIGN PANEL TYPE C	(10)	SQ FT	157
107	2565.616	PEDESTRIAN CROSSWALK FLASHER SYSTEM		SYSTEM	1
108	2571.502	ORNAMENTAL TREE 1.5" CAL B&B		EACH	24
109	2571.502	DECIDUOUS TREE 2.5" CAL B&B		EACH	154
110	2572.503	CLEAN ROOT CUTTING		LIN FT	300
111	2572.510	PRUNE TREES		HR	20
112	2573.502	STORM DRAIN INLET PROTECTION		EACH	131
113	2573.503	SILT FENCE TYPE MS		LIN FT	9390
114	2573.503	SEDIMENT CONTROL LOG TYPE WOOD FIBER		LIN FT	215
115	2574.507	COMMON TOPSOIL BORROW	(LV)	CU YD	3180
116	2574.507	FILTER TOPSOIL BORROW	(LV) (P)	CU YD	10
117	2575.504	ROLLED EROSION PREVENTION CATEGORY 20 W/ SEED MIXTURE (SOUTHERN BOULEVARD)	(11)	SQ YD	11600
118	2575.504	ROLLED EROSION PREVENTION CATEGORY 20 W/ SEED MIXTURE (WET DITCH)	(11)	SQ YD	230
119	2575.504	ROLLED EROSION PREVENTION CATEGORY 20 W/ SEED MIXTURE (SOUTHERN SHORTGRASS ROADSIDE)	(11)	SQ YD	6250
120	2575.504	SODDING TYPE LAWN		SQ YD	910
121	2575.523	RAPID STABILIZATION METHOD 3		MGAL	17
122	2582.503	4" SOLID LINE MULTI COMP		LIN FT	19405
123	2582.503	6" SOLID LINE MULTI COMP		LIN FT	3572
124	2582.503	24" SOLID LINE MULTI COMP		LIN FT	107
125	2582.503	4" BROKEN LINE MULTI COMP		LIN FT	3517
126	2582.503	4" DOUBLE SOLID LINE MULTI COMP		LIN FT	1775
127	2582.518	PAVEMENT MESSAGE MULTI COMP		SQ FT	815
128	2582.518	CROSSWALK MULTI COMP (WHITE)		SQ FT	5116
129	2582.518	CROSSWALK MULTI COMP GROUND IN (GREEN W/ WHITE)		SQ FT	2815

- NOTES
 (1) SIGNS SHALL BE PROTECTED DURING STORAGE
 (2) MAILBOXES SHALL BE PROTECTED DURING STORAGE. TEMPORARY MAILBOXES SHALL BE INSTALLED DURING CONSTRUCTION (INCIDENTAL), AND FINAL REINSTALLATION LOCATION SHALL BE IDENTIFIED BY THE ENGINEER.
 (3) PAVEMENT DEPTHS MAY VARY. VARIANCE IN PAVEMENT THICKNESS WILL NOT BE COMPENSATED FOR AND SHALL BE INCIDENTAL.
 (4) TOKEN QUANTITY TO BE USED AS DIRECTED BY THE ENGINEER
 (5) BID ITEM INCLUDES THE FURNISHING & INSTALLATION OF AGGREGATE BASE MATERIAL, AS SPECIFIED
 (6) BID ITEM INCLUDES THE FURNISHING & INSTALLATION OF TRASH GUARD, AS INDICATED IN THE DETAILS
 (7) NO SOCK AND INCLUDES FILTER AGGREGATE AND GEOTEXTILE FABRIC, AS SPECIFIED
 (8) BID ITEM INCLUDES THE FURNISHING & INSTALLATION OF COARSE FILTER AGGREGATE, AS SPECIFIED
 (9) BID ITEM INCLUDES THE FURNISHING & INSTALLATION OF GEOTEXTILE FABRIC, AS SPECIFIED
 (10) SIGN PANELS SHALL INCLUDE NEW SIGN POSTS, HARDWARE, AND INSTALLATION AS REQUIRED AND SHALL BE INCLUDED IN THE PRICE BID
 (11) INCLUDES THE FURNISHING AND INSTALLATION OF FERTILIZER AND SEED MIXTURE, AS SPECIFIED
 #REF!
 (12) BID ITEM INCLUDES THE FURNISHING AND INSTALLATION OF 10' LONG, 4"x4" BROWN TREATED POSTS AND ALUMINUM CAPS, AND THE INSTALLATION OF SIGN PANELS FURNISHED BY THE CITY IN LOCATIONS AS NOTED IN APPENDIX F
 (CV) COMPACTED VOLUME

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NORTHFIELD, MINNESOTA
 2026 JEFFERSON PKWY M&O AND MTST
STATEMENT OF ESTIMATED QUANTITIES

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STORM SEWER TABLE

ROADWAY	STRUCTURE				PROPOSED RIM (ELEV)	EFFLUENT INVERT (ELEV)	DRAINAGE STRUCTURE DESIGN						CASTING ASSEMBLY			RECONSTRUCT DRAINAGE STRUCTURE	CONNECT TO EX STM SEWER	CONNECT TO EX DRAINAGE STRUCTURE	STORM PIPE (PVC)			REINFORCED CONCRETE PIPE (RCP)			DRAINS TO			NOTES
	ID	STA.	OFFSET				DESIGN H LF	2'X3' CATCH BASIN LF	48" 4022 LF	60" 4022 LF	60" 4020 LF	84" 4022 LF	F&I R-4342 CASTING EACH	F&I R-3067 CASTING EACH	F&I R-1642-B CASTING EACH				8"	15"	18"	STRUCTURE ID	PIPE GRADE (%)	INVERT ELEVATION (ELEV)				
			RT	LT																					LF	LF	LF	
JEFFERSON PARKWAY	CBMH - 2	0+63.54	0.07'	RT	960.17	955.15						1			2					EX CB - 1	0.4	955.06						
	CB - 4	0+95.06	0.0'	LT	961.88	958.39		3.49				1					1		38		EX CBMH - 5	2.24	957.55					
	EX CBMH - 5	0+57.37	0.0'	LT	962.25	957.37							1								EX CB - 6	0.28	957.14					
	CB - 7	0+85.40	0.0'	LT	963.54	959.81		3.73				1			1						EX CB - 8	0.71	959.29					
	CBMH - 10	0+34.18	0.0'	LT	964.49	959.8			4.69			1			1	1			8		EX CBMH - 11	0.88	959.73					
	EX CBMH - 11	0+41.93	0.0'	LT	964.84	959.68							1		1						CBMH - 12	0.34	959.36					
	CBMH - 12	0+59.19	0.05'	LT	963.52	959.36			4.16			1			2						EX CBMH - 13	0.34	959.22					
	EX CBMH - 13	0+17.34	0.09'	LT	964.02	959.17							1		1						EX CBMH - 14	0.03	959.16					
	EX CBMH - 14	0+25.64	0.00'	LT	967.17	960.95							1		1						CBMH - 15	0.76	960.63					
	CBMH - 15	0+67.58	0.18'	LT	966.92	960.62			6.3			1			2						CBMH - 16	0.76	959.55					
	CBMH - 16	2+08.92	0.04	RT	967.6	959.55			8.05			1			2						EX CBMH - 17	0.76	959.37					
	EX CBMH - 17	2+32.53	0.00'	LT	968.17	959.22							1		1						EX FES - 1	0.32	958.83					
	CBMH - 18	0+41.48	0.00'	LT	965.99	960.41					5.58	1			2	1			6		EX CB MH - 20	2.22	959.88					
	CB - 21	1+29.07	0.28'	LT	961.25	956.75		4.5				1							14		CBMH - 22	3.07	956.32					
	CBMH - 22	1+15.05	0.0'	LT	961.26	956.22			5.04			1			1						EX CB - 23	0.17	956.16					
	EX CB - 23	0+78.24	0.05'	RT	961.16	956.06						1				1				23	CBMH - 24	0.74	955.79					
	CBMH - 24	0+55.34	0.17'	RT	961.43	955.79			5.64			1								39	MH - 28	0.76	955.21					
	EX CB - 25	1+44.81	0.00'	LT	961.33	956.42						1				1			42		CBMH - 26	0.5	956.21					
	CBMH - 26	1+02.58	0.00'	LT	961.68	956.21			5.47			1							26		CBMH - 27	0.89	955.98					
	CBMH - 27	0+76.73	0.04'	LT	961.68	955.88			5.8			1							13		MH - 28	2.85	955.5					
MH - 28	0+63.41	0.00'	LT	962.15	955.21				6.94			1		1						EX CBMH - 29	0.26	954.61						
MAPLE STREET	BH - 30	0+25.22	0.00'	LT	967.73	965.07	2.66				1							71			CBMH - 31	0.4	964.79					
	CBMH - 31	0+96.34	0.06'	RT	969.96	964.79			5.17			1			3						EX CBMH - 32	0.94	962.77					
PRAIRIE STREET	CBMH - 33	0+56.12	0.11'	RT	969.22	960.66		8.56			1				2						EX CBMH - 34	1.01	960.03					
	CB - 35	0+79.70	0.29'	LT	969.68	965.68		4			1					1		62			EX CBMH - 34	1.91	964.5					
	EX CBMH - 34	0+18.07	0.05'	LT	969.7	959.52							1		1						EX MH - 35	0.33	959.46					
TOTALS:							3	16	59	5	7	6	1	18	6	6	19	6	71	209	62							

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JASON A. MALECHA, P.E.
LIC. NO. 57151 DATE MM/DD/YYYY



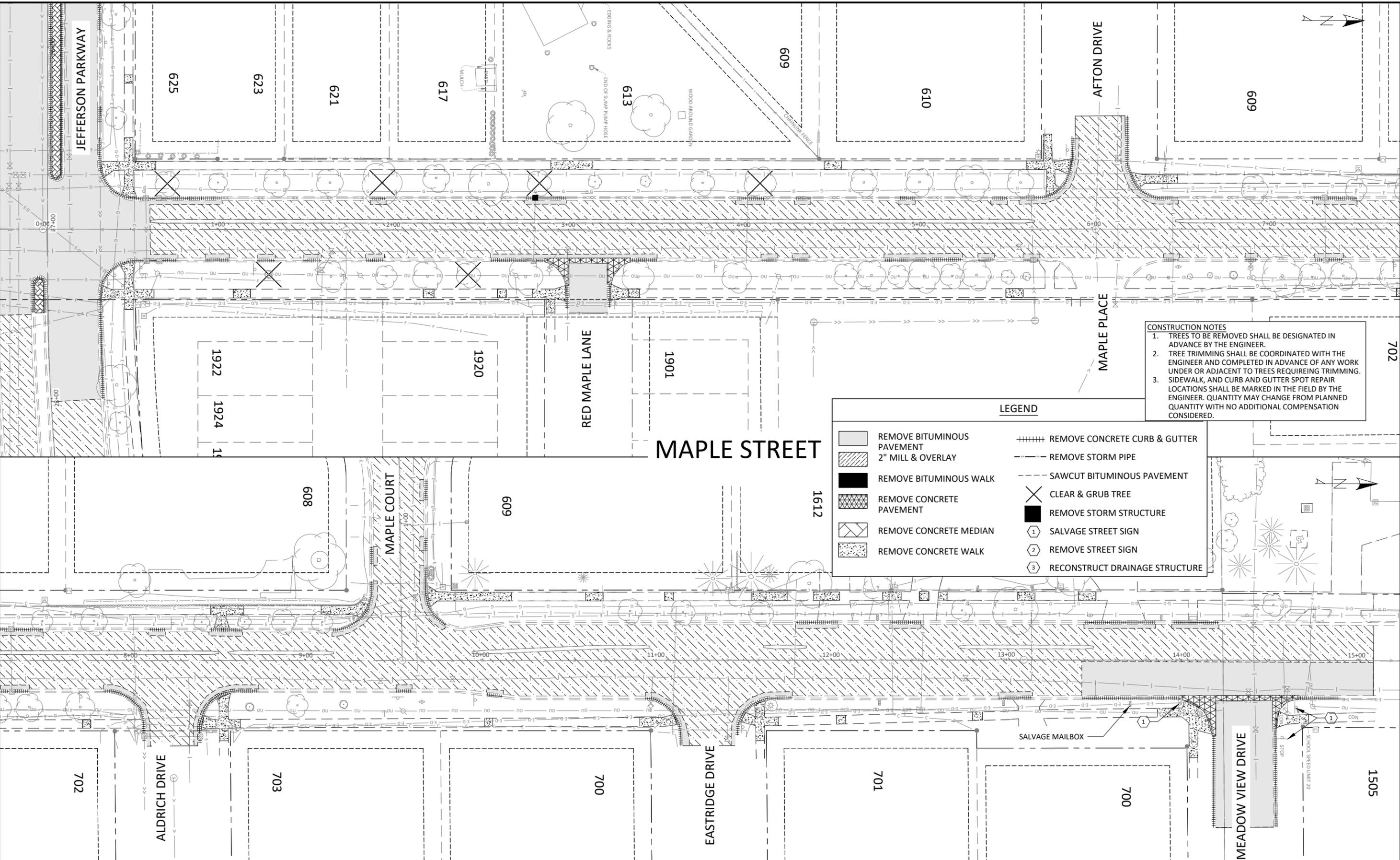
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NORTHFIELD, MINNESOTA
2026 JEFFERSON PKWY M&O AND MTST IMPROVEMENTS
STORM SEWER TABULATION

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CONSTRUCTION NOTES

1. TREES TO BE REMOVED SHALL BE DESIGNATED IN ADVANCE BY THE ENGINEER.
2. TREE TRIMMING SHALL BE COORDINATED WITH THE ENGINEER AND COMPLETED IN ADVANCE OF ANY WORK UNDER OR ADJACENT TO TREES REQUIRING TRIMMING.
3. SIDEWALK, AND CURB AND GUTTER SPOT REPAIR LOCATIONS SHALL BE MARKED IN THE FIELD BY THE ENGINEER. QUANTITY MAY CHANGE FROM PLANNED QUANTITY WITH NO ADDITIONAL COMPENSATION CONSIDERED.

LEGEND

	REMOVE BITUMINOUS PAVEMENT		REMOVE CONCRETE CURB & GUTTER
	2" MILL & OVERLAY		REMOVE STORM PIPE
	REMOVE BITUMINOUS WALK		SAWCUT BITUMINOUS PAVEMENT
	REMOVE CONCRETE PAVEMENT		CLEAR & GRUB TREE
	REMOVE CONCRETE MEDIAN		REMOVE STORM STRUCTURE
	REMOVE CONCRETE WALK		SALVAGE STREET SIGN
			REMOVE STREET SIGN
			RECONSTRUCT DRAINAGE STRUCTURE



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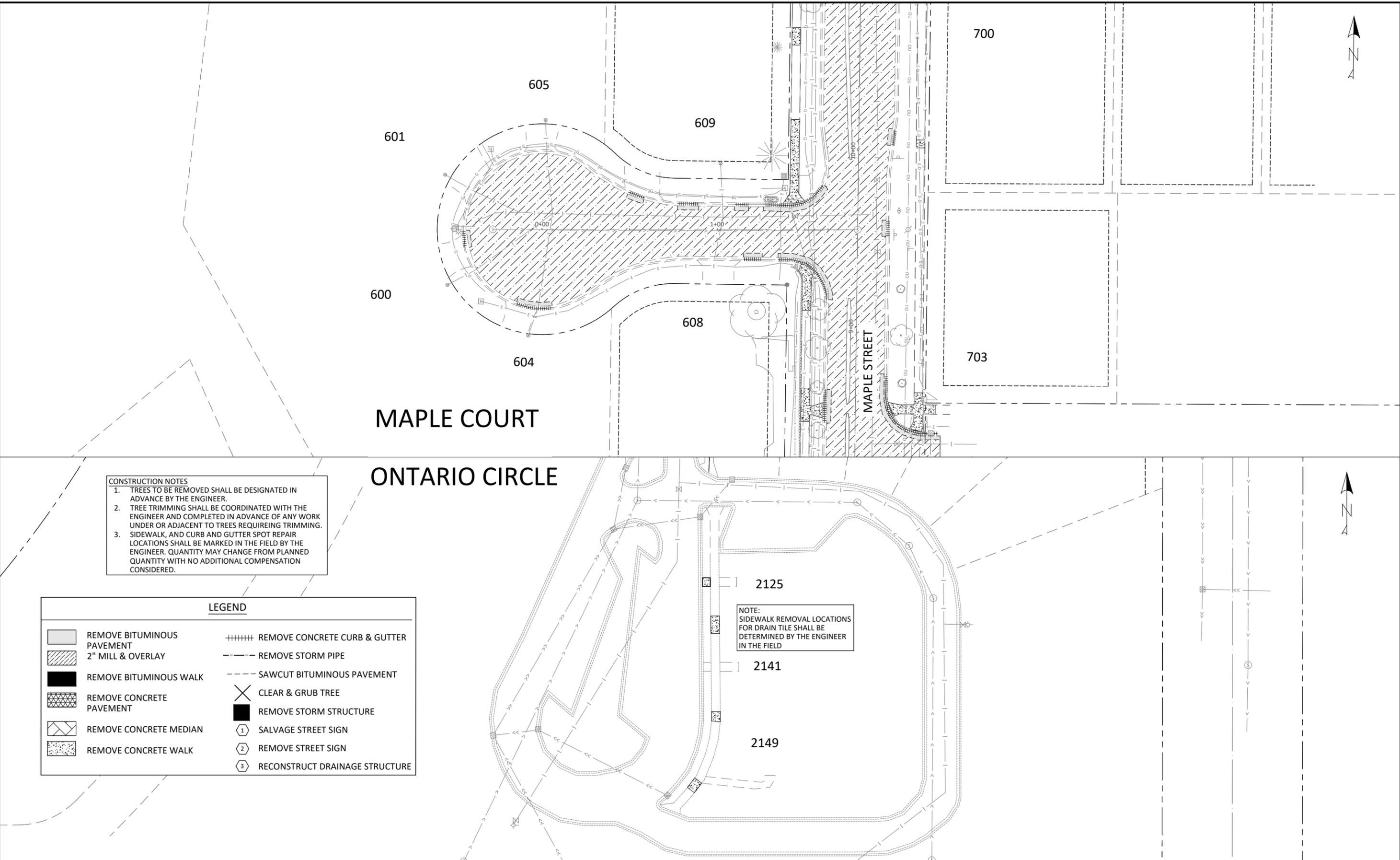


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NORTHFIELD, MINNESOTA
2026 JEFFERSON PKWY M&O AND MTST
EXISTING CONDITIONS & REMOVALS PLAN
MAPLE STREET

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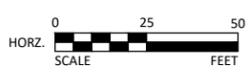


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	REMOVE CONCRETE WALK		SALVAGE STREET SIGN
			REMOVE STREET SIGN
			RECONSTRUCT DRAINAGE STRUCTURE

NOTE:
SIDEWALK REMOVAL LOCATIONS FOR DRAIN TILE SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD



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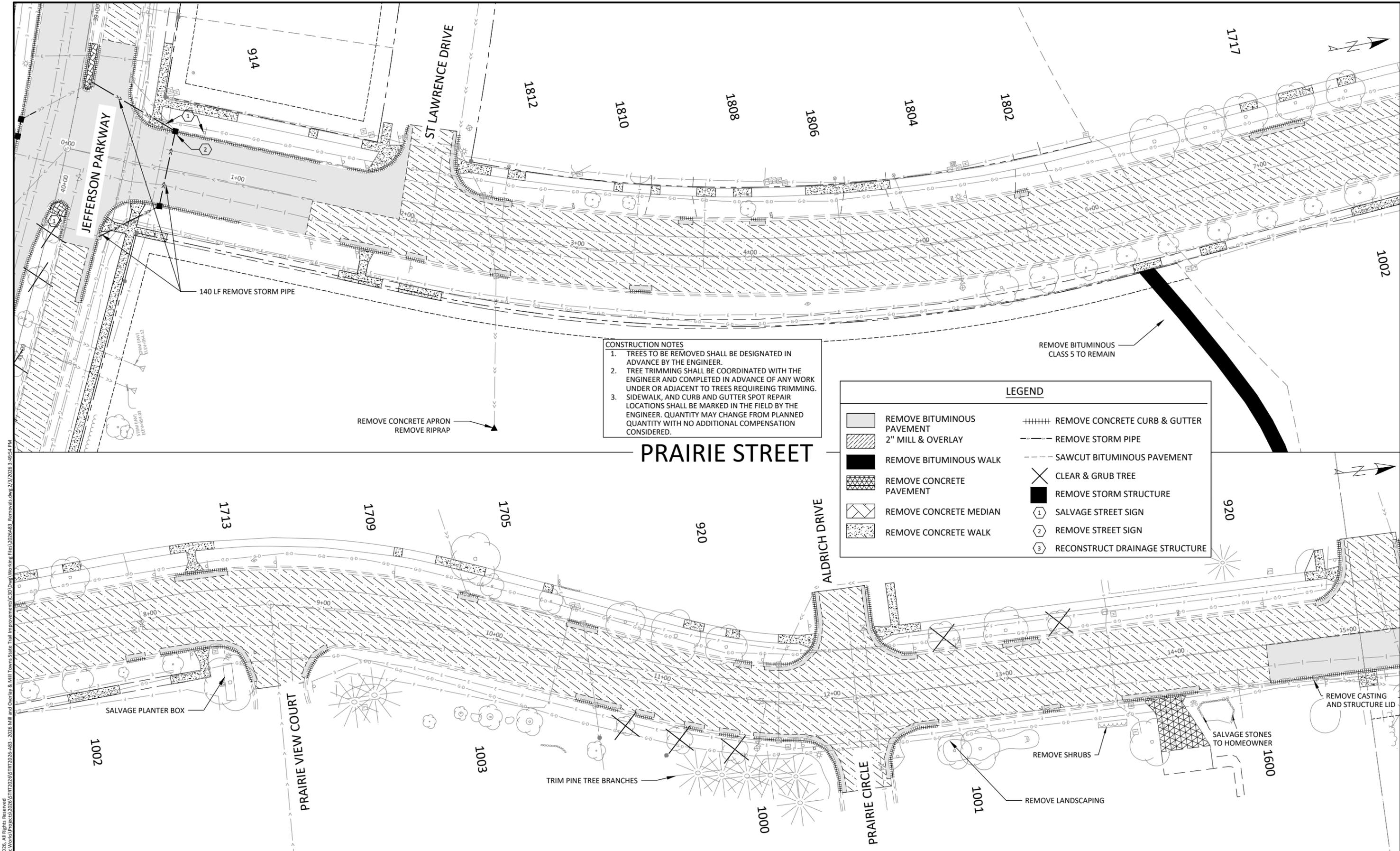
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NORTHFIELD, MINNESOTA
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CONSTRUCTION NOTES

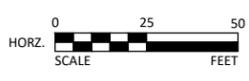
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	REMOVE CONCRETE WALK		SALVAGE STREET SIGN
			REMOVE STREET SIGN
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PRAIRIE STREET

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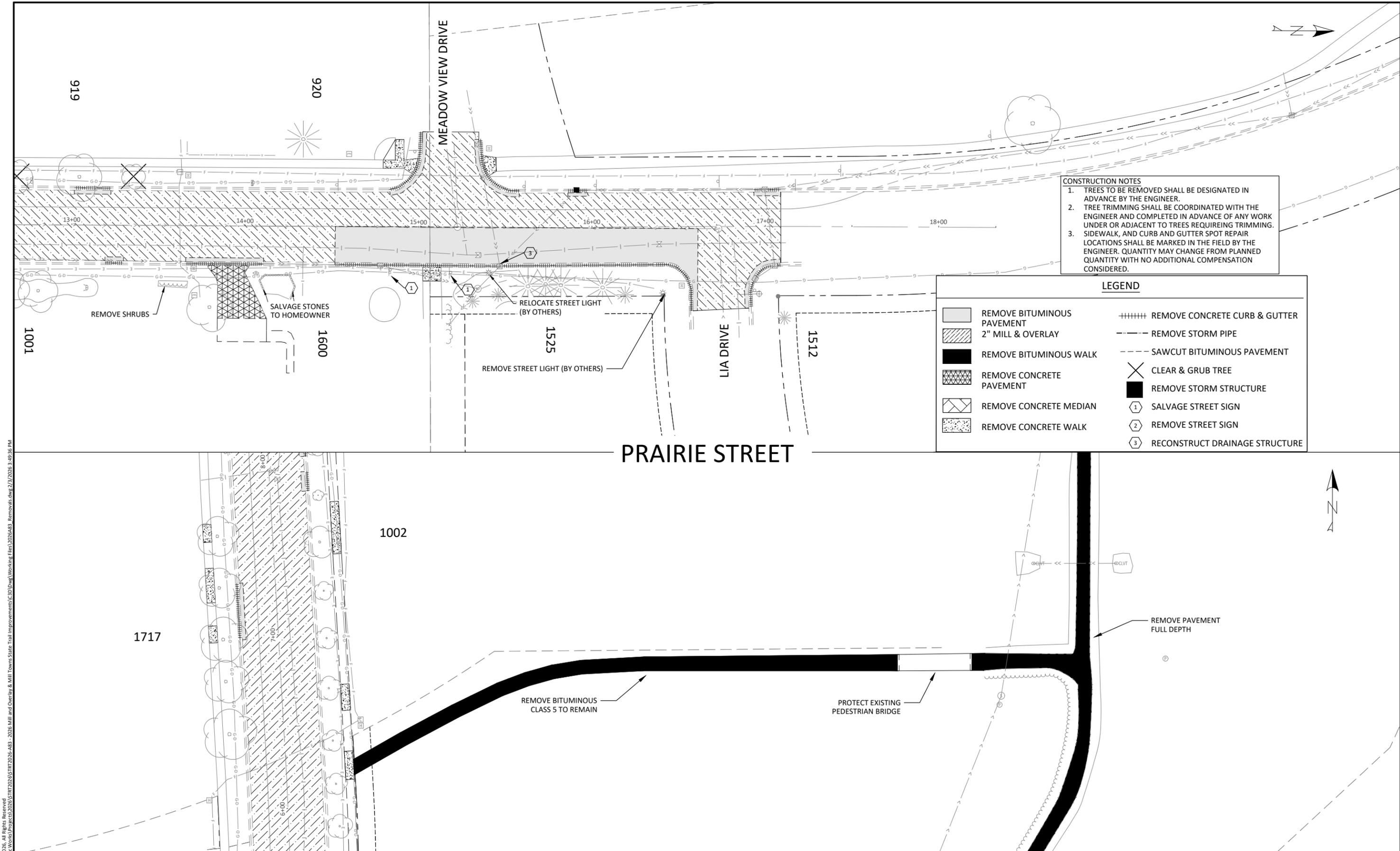
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NORTHFIELD, MINNESOTA
 2026 JEFFERSON PKWY M&O AND MTST
 EXISTING CONDITIONS & REMOVALS PLAN
 PRAIRIE STREET

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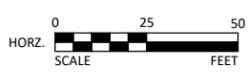
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			REMOVE STREET SIGN
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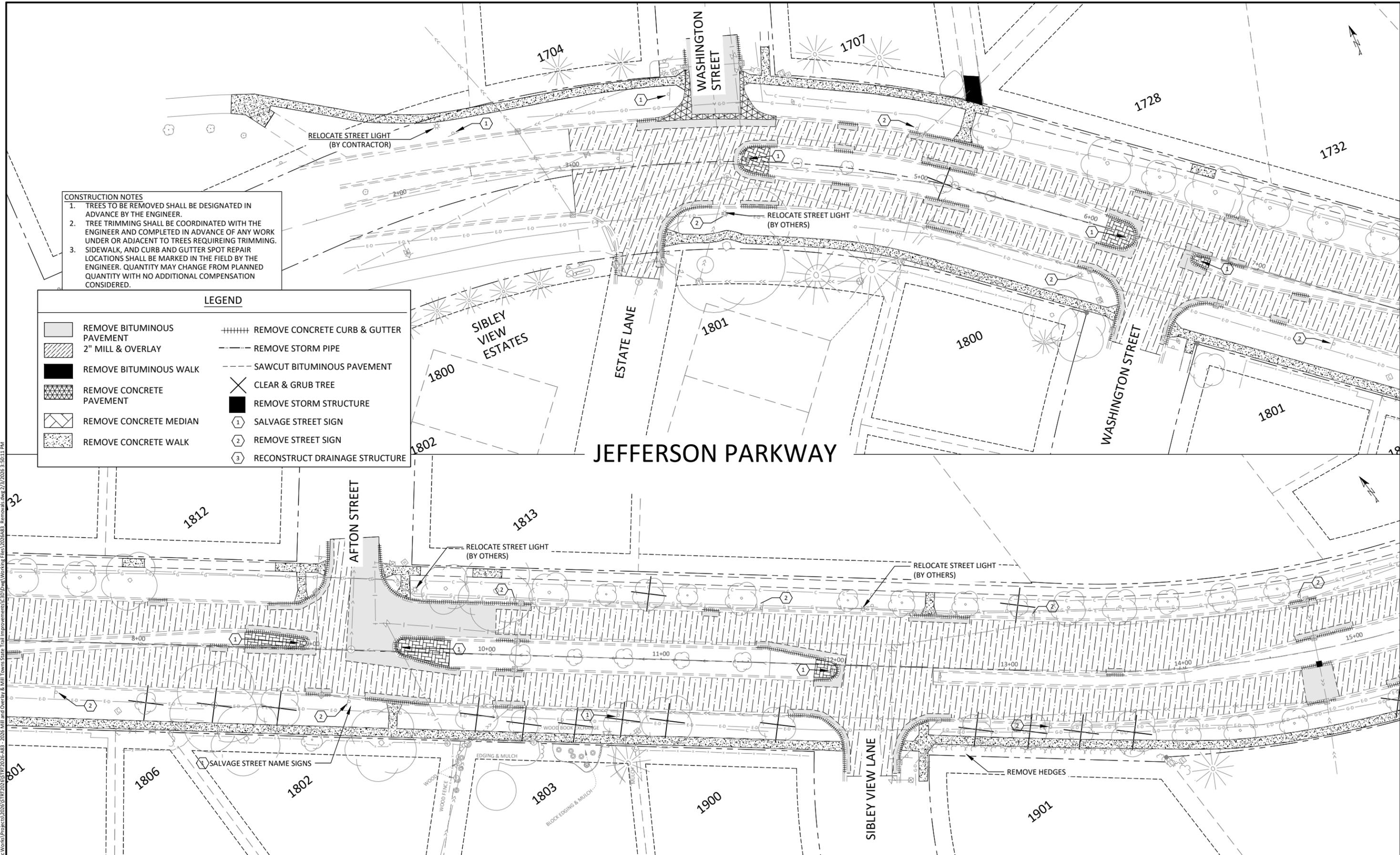


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NORTHFIELD, MINNESOTA
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PRAIRIE STREET

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			REMOVE STREET SIGN
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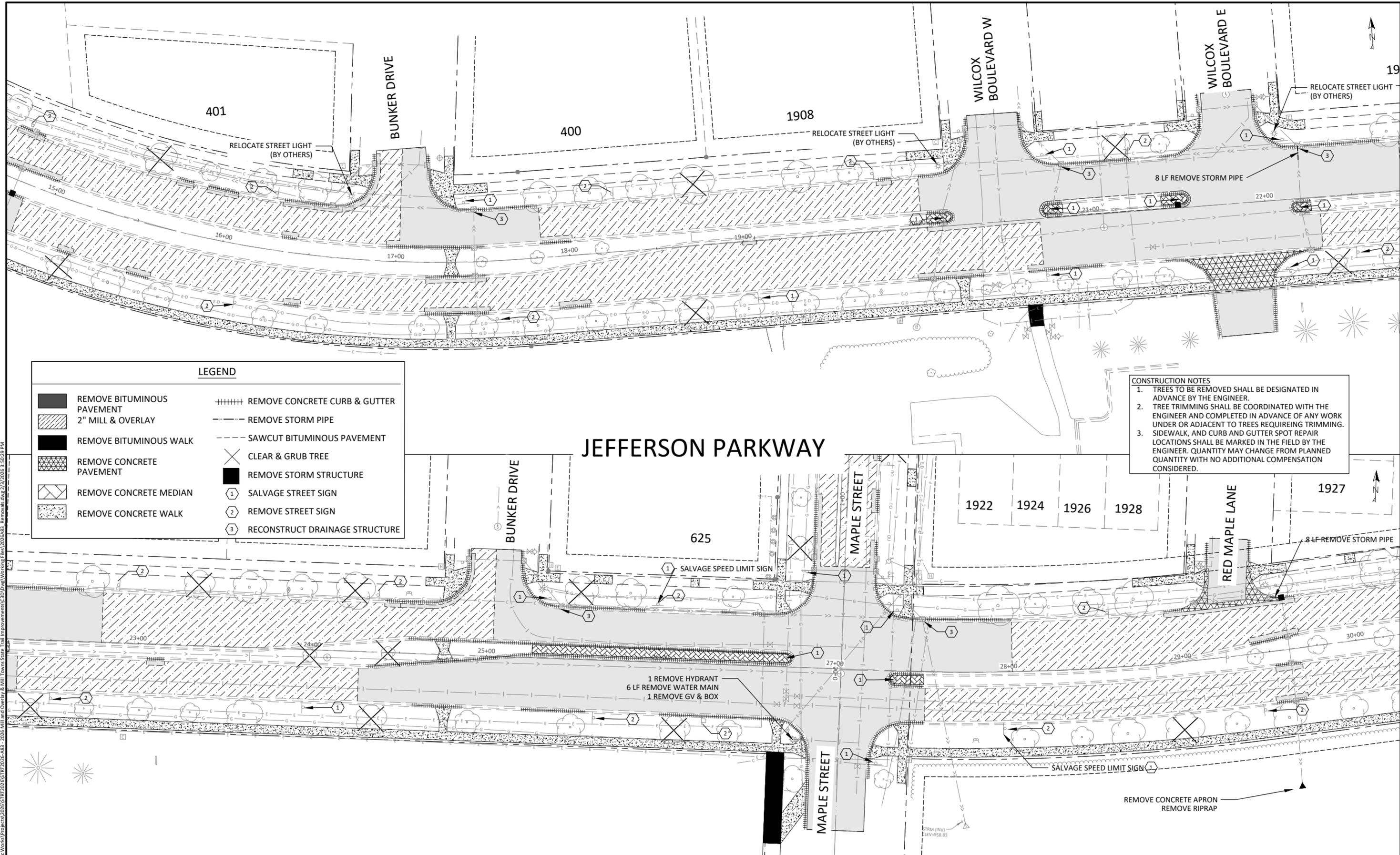


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NORTHFIELD, MINNESOTA
2026 JEFFERSON PKWY M&O AND MTST
EXISTING CONDITIONS & REMOVALS PLAN
JEFFERSON PARKWAY

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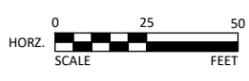
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JEFFERSON PARKWAY



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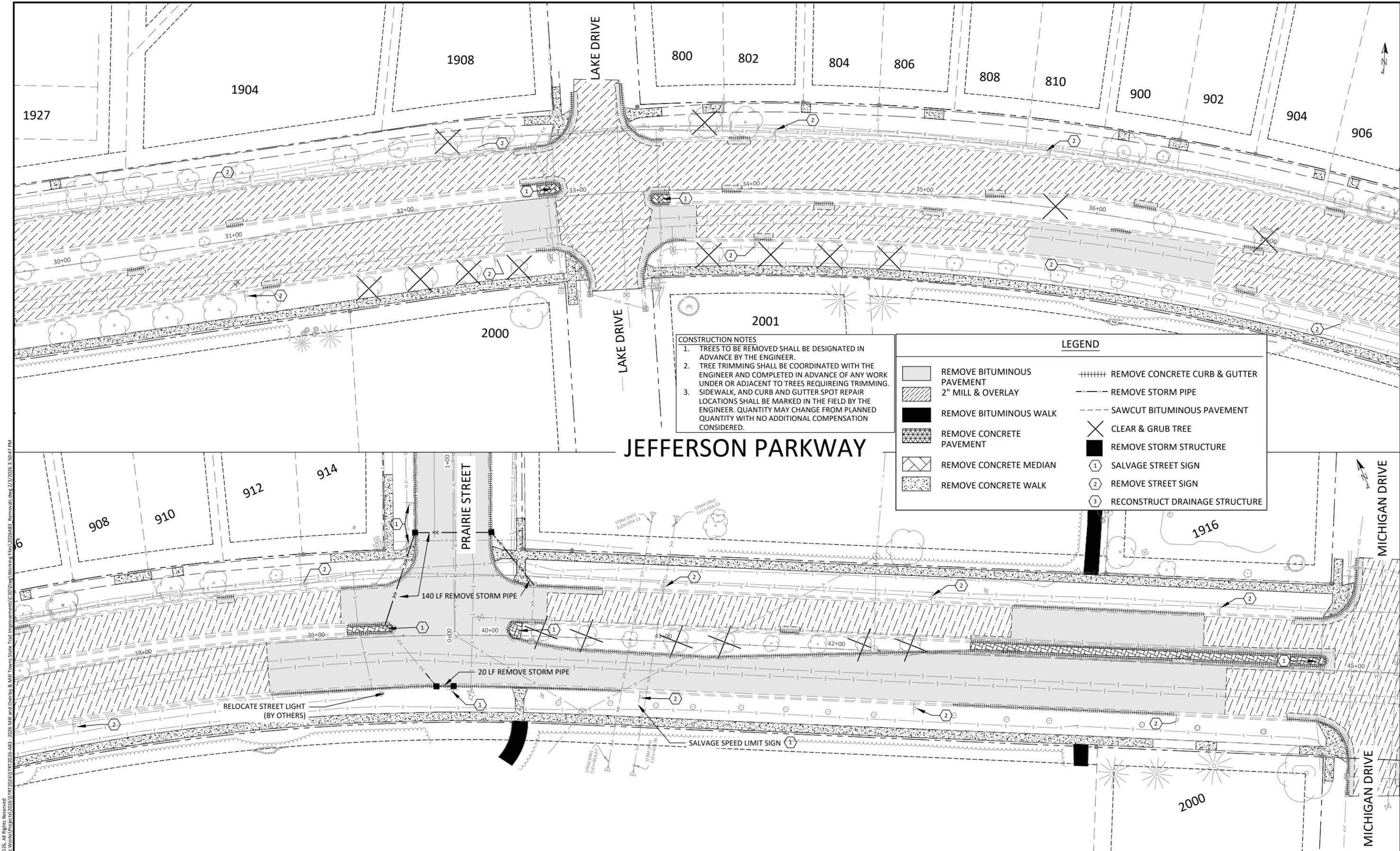
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 Email: Burnsville@bolton-menk.com
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NORTHFIELD, MINNESOTA
 2026 JEFFERSON PKWY M&O AND MTST
 EXISTING CONDITIONS & REMOVALS PLAN
 JEFFERSON PARKWAY

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CONSTRUCTION NOTES

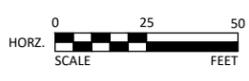
1. TREES TO BE REMOVED SHALL BE DESIGNATED IN ADVANCE BY THE ENGINEER.
2. TREE TRIMMING SHALL BE COORDINATED WITH THE ENGINEER AND COMPLETED IN ADVANCE OF ANY WORK UNDER OR ADJACENT TO TREES REQUIRING TRIMMING.
3. SIDEWALK, AND CURB AND GUTTER SPOT REPAIR LOCATIONS SHALL BE MARKED IN THE FIELD BY THE ENGINEER. QUANTITY MAY CHANGE FROM PLANNED QUANTITY WITH NO ADDITIONAL COMPENSATION CONSIDERED.

LEGEND

	REMOVE BITUMINOUS PAVEMENT		REMOVE CONCRETE CURB & GUTTER
	2" MILL & OVERLAY		REMOVE STORM PIPE
	REMOVE BITUMINOUS WALK		SAWCUT BITUMINOUS PAVEMENT
	REMOVE CONCRETE PAVEMENT		CLEAR & GRUB TREE
	REMOVE CONCRETE MEDIAN		REMOVE STORM STRUCTURE
	REMOVE CONCRETE WALK		SALVAGE STREET SIGN
			REMOVE STREET SIGN
			RECONSTRUCT DRAINAGE STRUCTURE

JEFFERSON PARKWAY

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 DAVID E BENNETT, P.E.
 LIC. NO. 45867 DATE XX/XX/XXXX



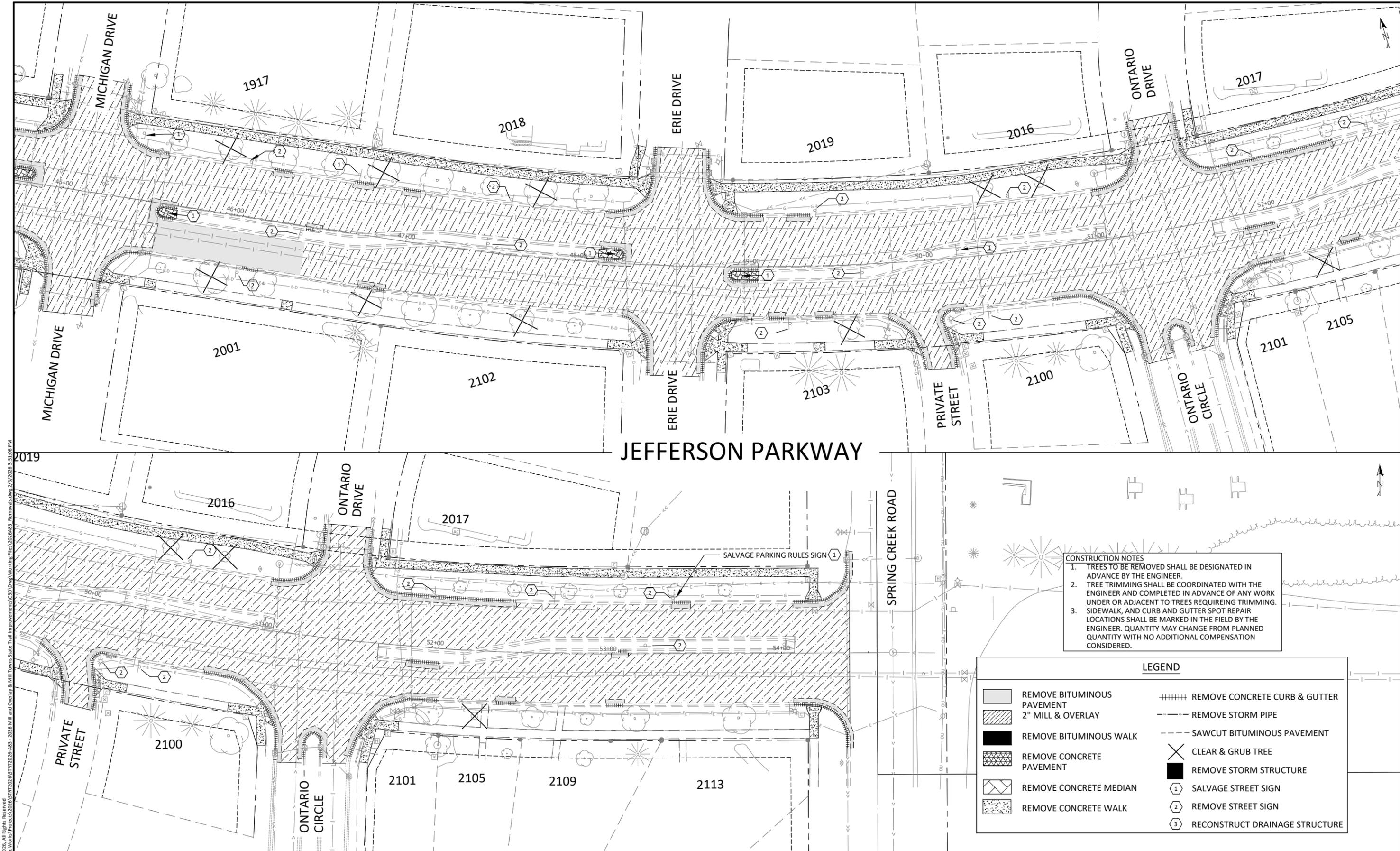
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JEFFERSON PARKWAY

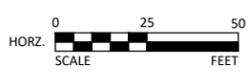
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	REMOVE CONCRETE PAVEMENT		CLEAR & GRUB TREE
	REMOVE CONCRETE MEDIAN		REMOVE STORM STRUCTURE
	REMOVE CONCRETE WALK		SALVAGE STREET SIGN
			REMOVE STREET SIGN
			RECONSTRUCT DRAINAGE STRUCTURE

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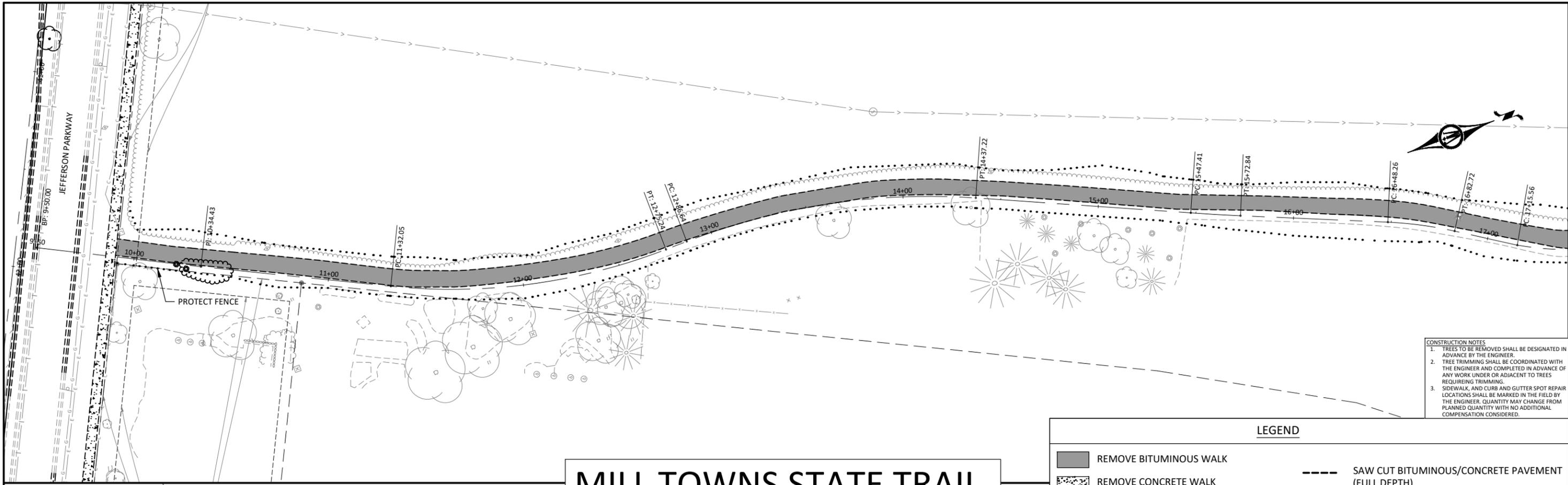
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NORTHFIELD, MINNESOTA
 2026 JEFFERSON PKWY M&O AND MTST
EXISTING CONDITIONS & REMOVALS PLAN
 JEFFERSON PARKWAY

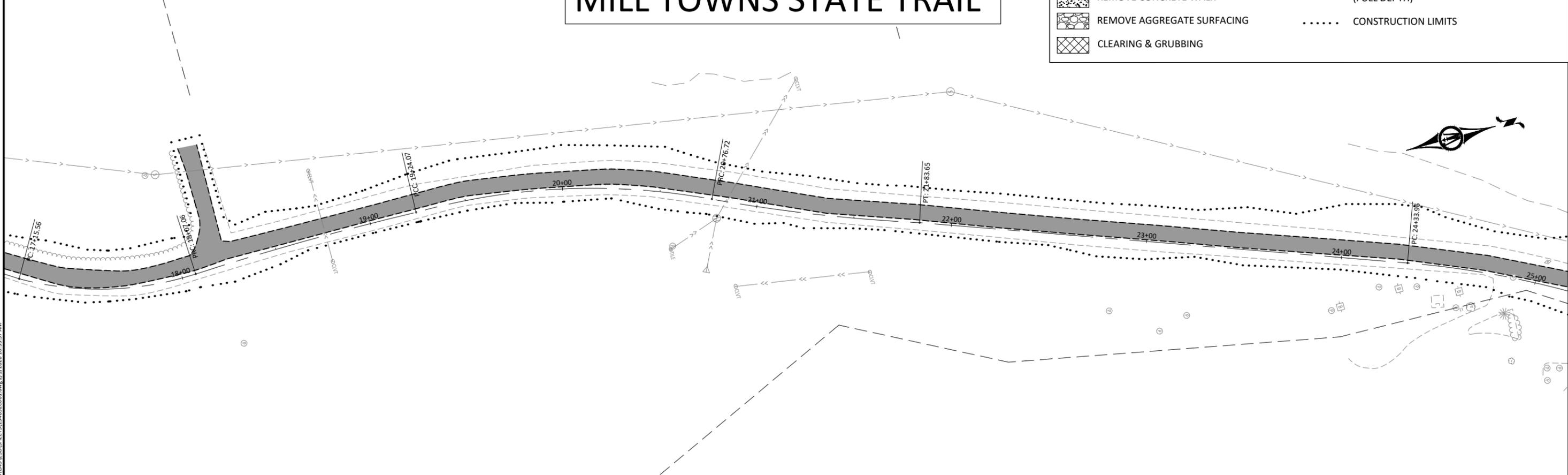
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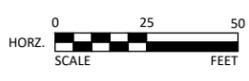
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MILL TOWNS STATE TRAIL

LEGEND			
	REMOVE BITUMINOUS WALK		SAW CUT BITUMINOUS/CONCRETE PAVEMENT (FULL DEPTH)
	REMOVE CONCRETE WALK		CONSTRUCTION LIMITS
	REMOVE AGGREGATE SURFACING		
	CLEARING & GRUBBING		



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JASON A. MALECHA, P.E.
 LIC. NO. 57151 DATE MM/DD/YYYY



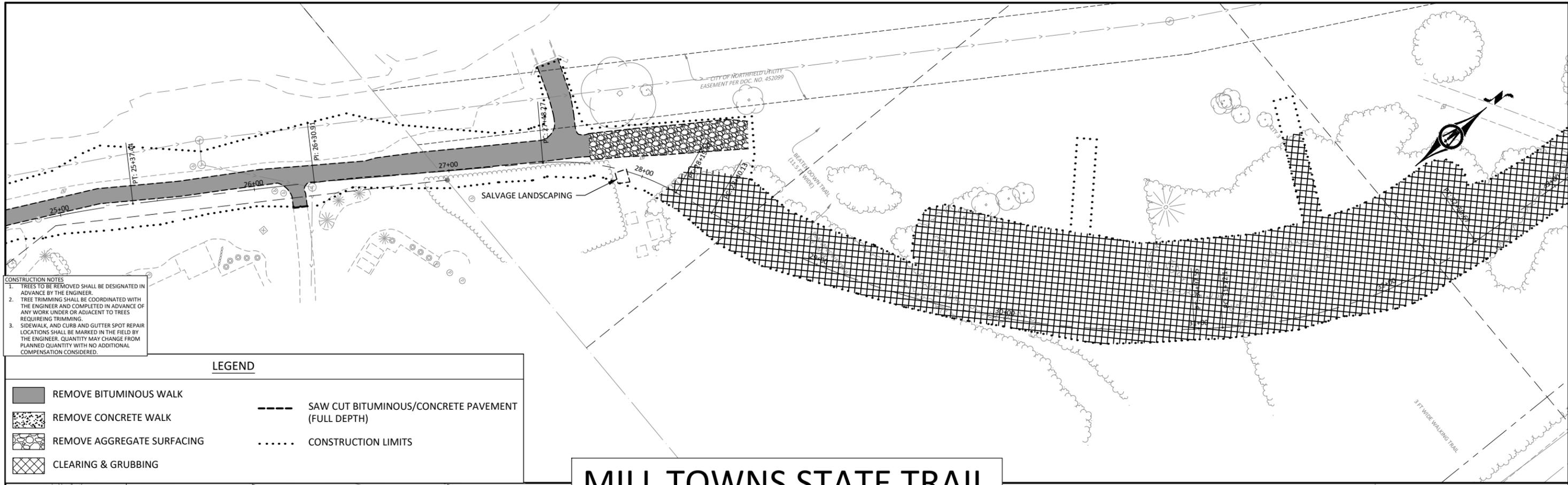
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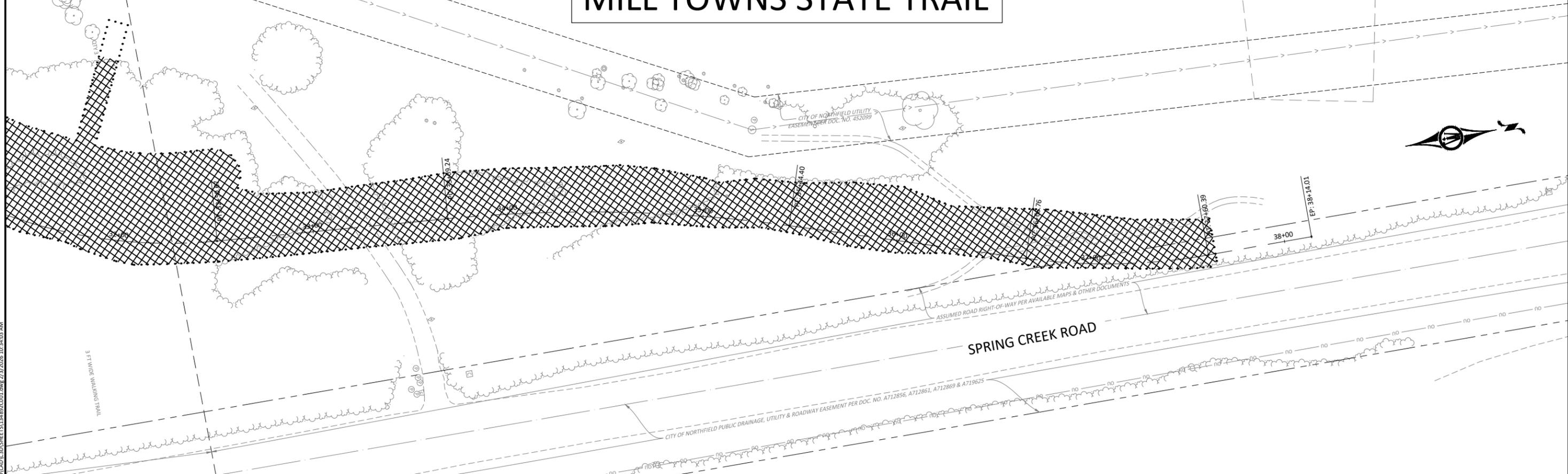


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	REMOVE CONCRETE WALK		CONSTRUCTION LIMITS
	REMOVE AGGREGATE SURFACING		
	CLEARING & GRUBBING		

MILL TOWNS STATE TRAIL



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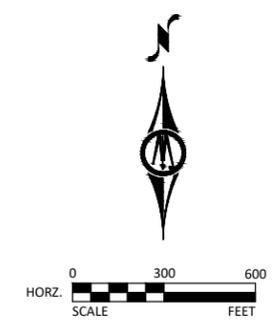
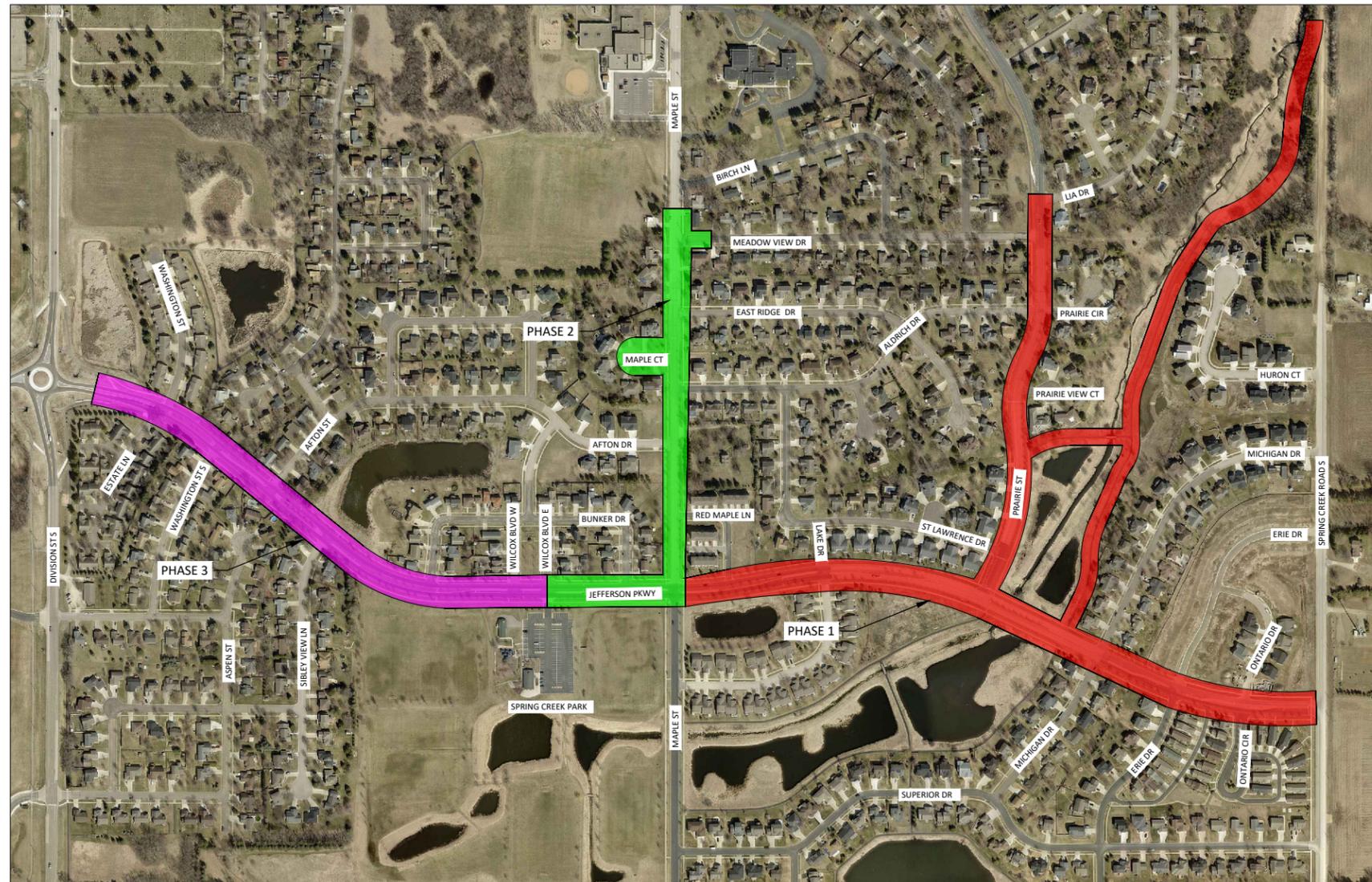
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LEGEND

	PHASE 1
	PHASE 2
<ul style="list-style-type: none"> - CONTRACTOR SHALL NOT BEGIN CONSTRUCTION WITHIN PHASE 2 AREA BEFORE 6/11/2026 AND SHALL COMPLETE CONSTRUCTION WITHIN THE PHASE 2 AREA ON OR BEFORE 9/4/2026. - PHASE ONE SHALL BE SUBSTANTIALLY COMPLETE PRIOR TO COMMENCING WORK WITHIN PHASE 2. 	
	PHASE 3
<ul style="list-style-type: none"> - CONTRACTOR SHALL NOT BEGIN CONSTRUCTION WITHIN PHASE 3 AREA BEFORE 6/11/2026 AND SHALL COMPLETE CONSTRUCTION WITHIN THE PHASE 3 AREA ON OR BEFORE 9/4/2026. - PHASE TWO SHALL BE SUBSTANTIALLY COMPLETE PRIOR TO COMMENCING WORK WITHIN PHASE 3. 	
<p>*ACCESS TO SPRING CREEK PARK MUST BE MAINTAINED THROUGHOUT ALL PHASES OF THE PROJECT DURATION.</p>	

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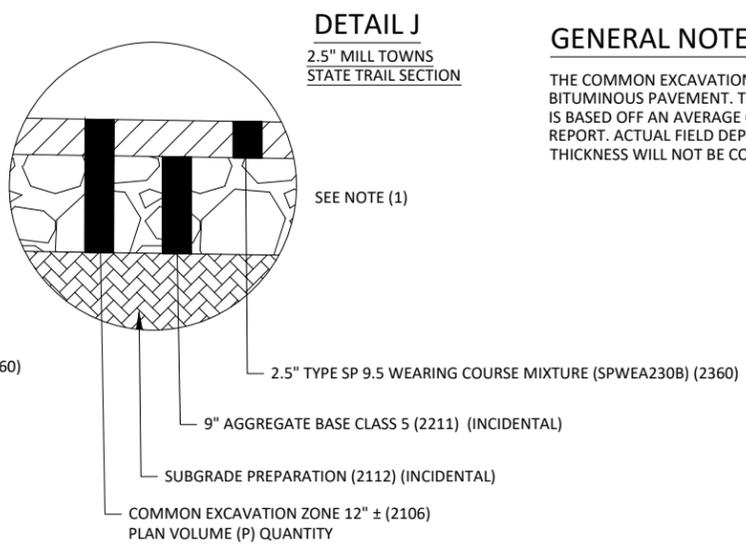
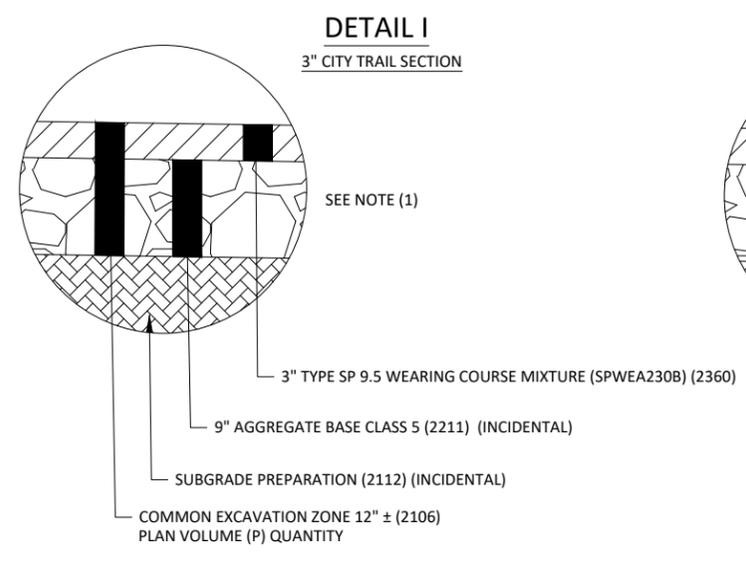
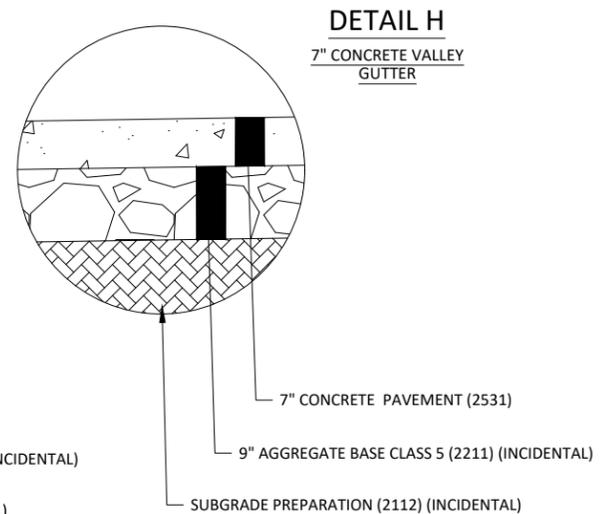
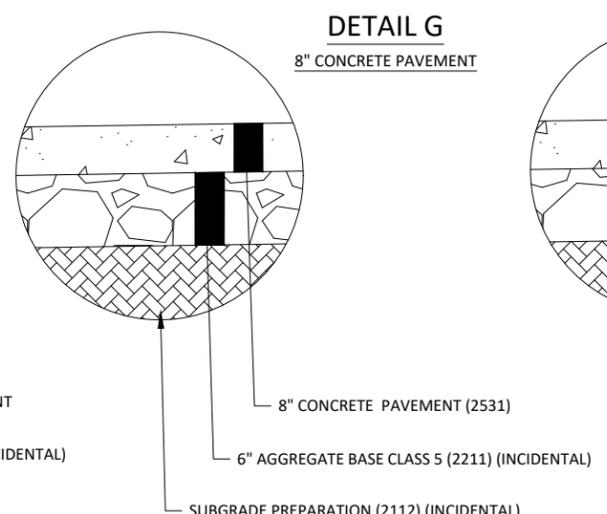
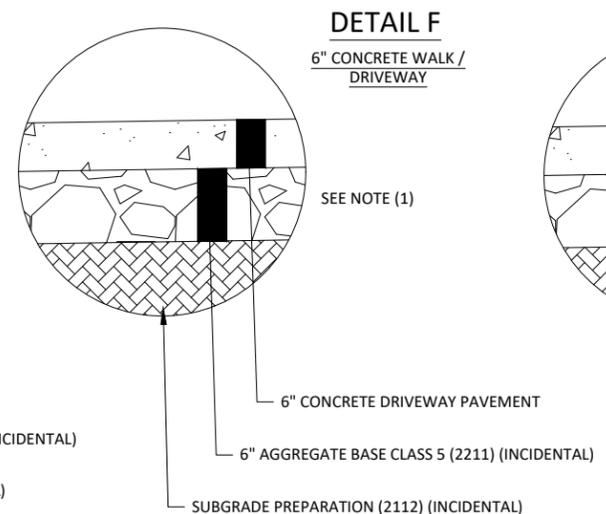
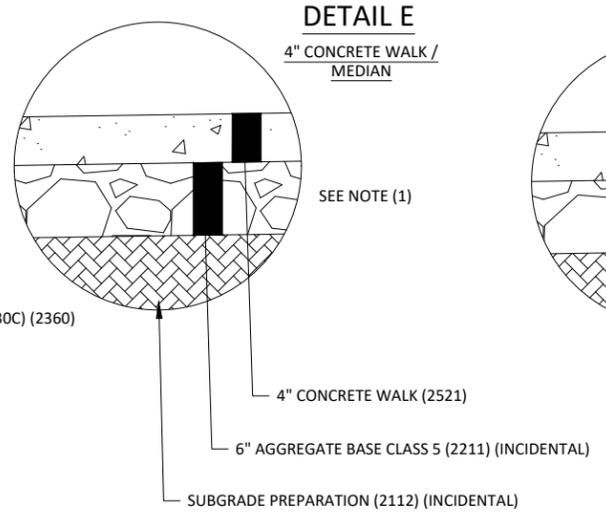
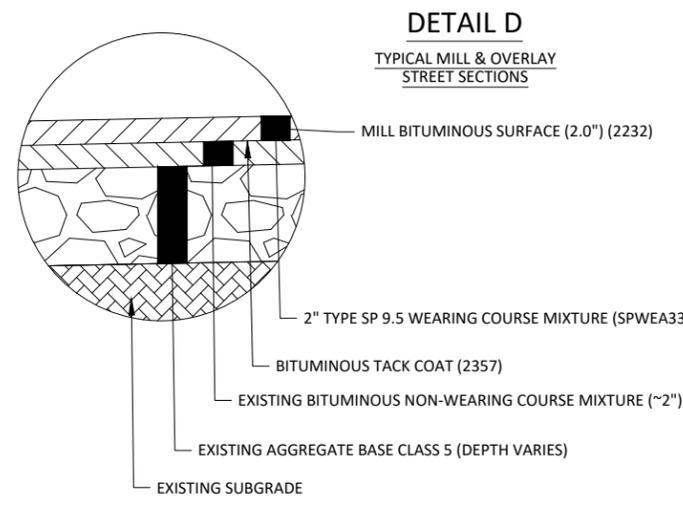
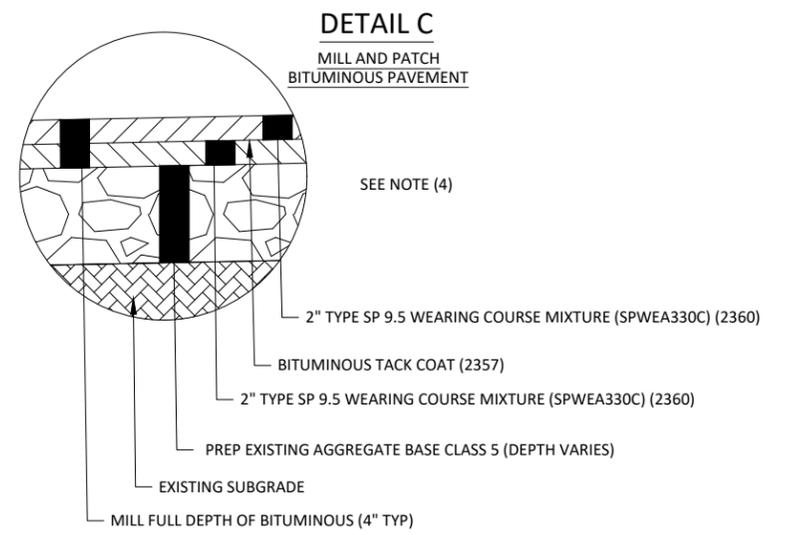
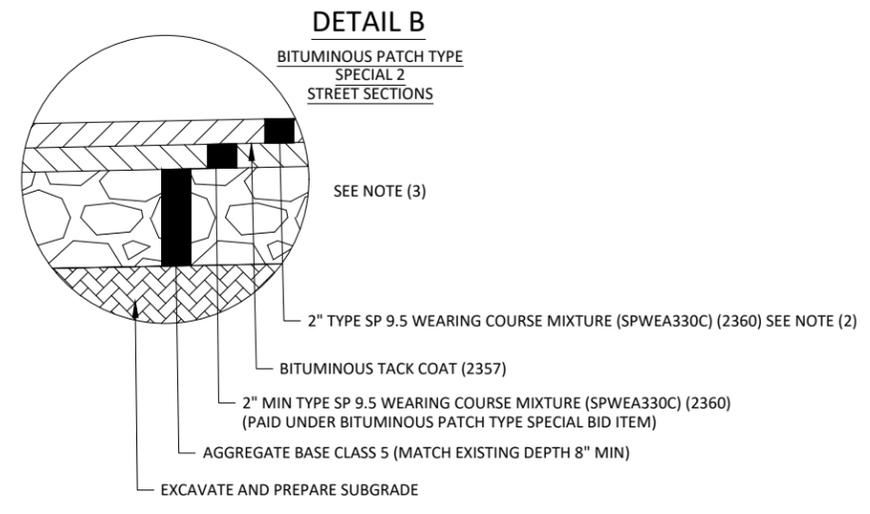
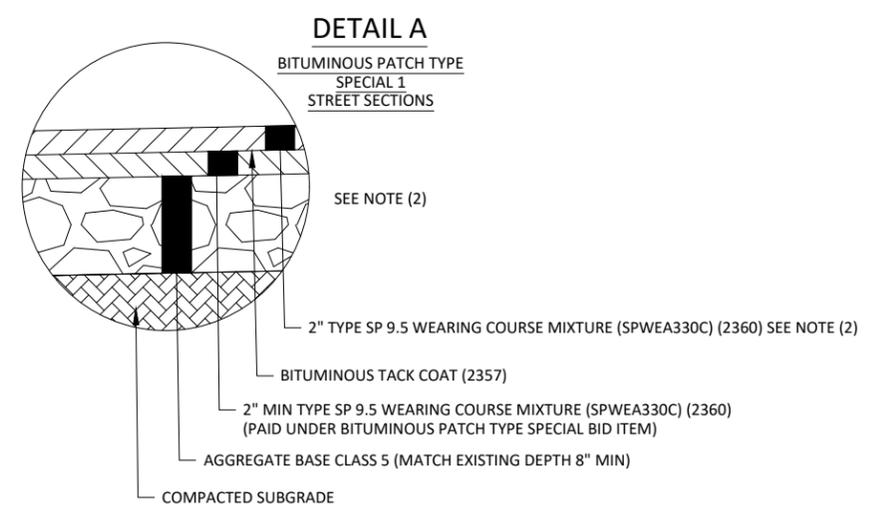


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GENERAL NOTES:

THE COMMON EXCAVATION VOLUME DOES NOT INCLUDE THE EXISTING BITUMINOUS PAVEMENT. THE EXISTING BITUMINOUS PAVEMENT DEPTH IS BASED OFF AN AVERAGE OF 4" FROM THE GEOTECHNICAL EVALUATION REPORT. ACTUAL FIELD DEPTHS MAY VARY. ANY VARIATION IN PAVEMENT THICKNESS WILL NOT BE COMPENSATED AND IS INCIDENTAL.

- SPECIFIC NOTES:**
- AGGREGATE BASE SHALL EXTEND 6" BEYOND THE EDGE OF NEW PAVEMENT
 - PAYMENT FOR BITUMINOUS PATCH SPECIAL 1 SHALL INCLUDE THE MATERIALS AND LABOR REQUIRED FOR REMOVING THE BITUMINOUS, COMMON EXCAVATION, AGGREGATE BASE CLASS 5, AND THE BOTTOM LIFT OF BITUMINOUS. PAYMENT FOR THE TOP LIFT OF BITUMINOUS WEAR COURSE AND BITUMINOUS SAWCUTTING SHALL BE PAID AT THE RESPECTIVE BID ITEMS.
 - PAYMENT FOR BITUMINOUS PATCH SPECIAL 2 SHALL INCLUDE THE MATERIALS AND LABOR REQUIRED FOR REMOVING THE BITUMINOUS, COMMON EXCAVATION, EXCAVATION & PREPARATION OF THE SUBGRADE, AGGREGATE BASE CLASS 5, AND THE BOTTOM LIFT OF BITUMINOUS, PAYMENT FOR THE TOP LIFT OF BITUMINOUS WEAR COURSE AND BITUMINOUS SAWCUTTING SHALL BE PAID AT THE RESPECTIVE BID ITEMS. ITEM IS A CONTINGENCY ITEM TO BE USED AT THE DISCRETION OF THE ENGINEER FOLLOWING PAVEMENT MILLING TO REPAIR DAMAGED, DISTRESSED, OR FAULED BITUMINOUS PAVEMENT. QUANTITY IS ESTIMATED AT 5% OF TOTAL OVERLAY AREA AND MAY CHANGE WITH NO UNIT PRICE ADJUSTMENT.
 - PAYMENT FOR MILL AND PATCH BITUMINOUS PAVEMENT SHALL INCLUDE THE MATERIALS AND LABOR REQUIRED FOR PAVEMENT REMOVAL BEYOND THE TOP 2" OF THE BITUMINOUS PAVEMENT AND PATCHING BACK TO AN ELEVATION 2" BELOW THE FINISHED GRADE. PAYMENT FOR THE TOP LIFT OF BITUMINOUS WEAR COURSE AND MILLING OF THE TOP 2" OF EXISTING BITUMINOUS PAVEMENT SHALL BE PAID AT THE RESPECTIVE BID ITEMS. ITEM TO BE USED FOR BITUMINOUS REMOVALS ALONG CURB & GUTTER, MEDIAN, AND VALLEY GUTTER REMOVAL AREAS

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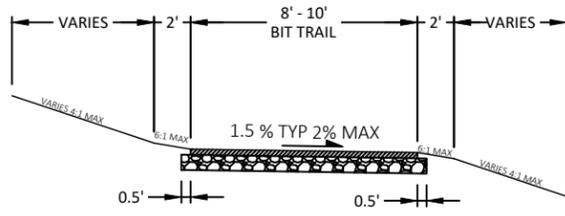
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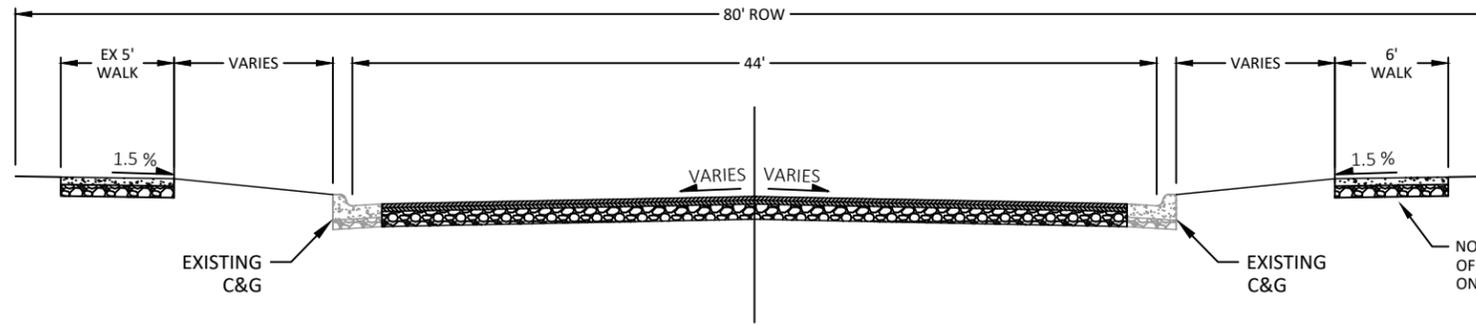
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NORTHFIELD, MINNESOTA
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DETAILS
TYPICAL SECTIONS

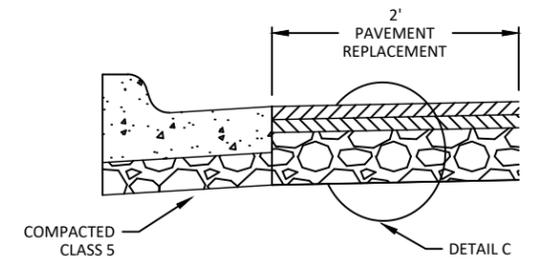
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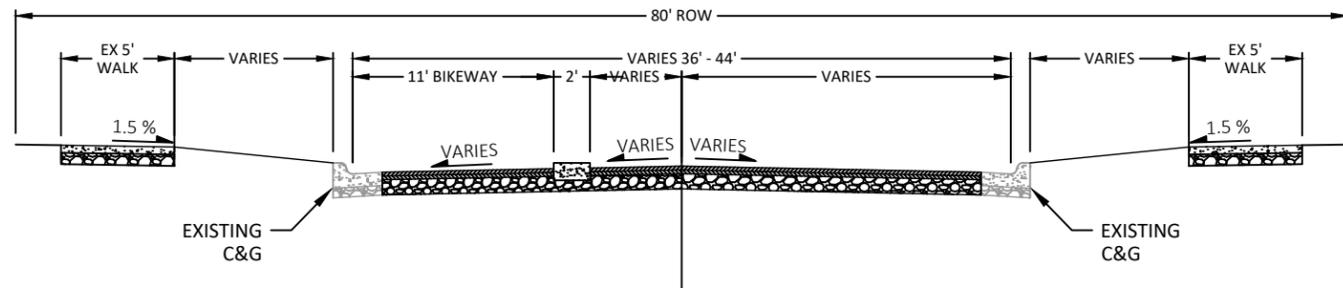
TYPICAL SECTION - TRAIL



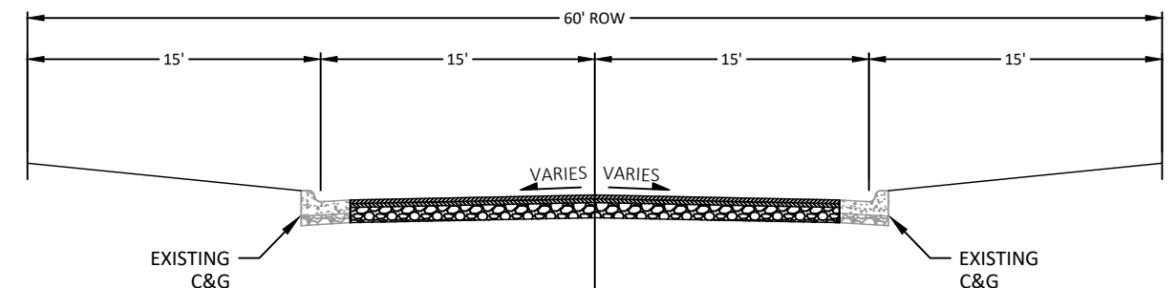
TYPICAL SECTION
PRAIRIE STREET



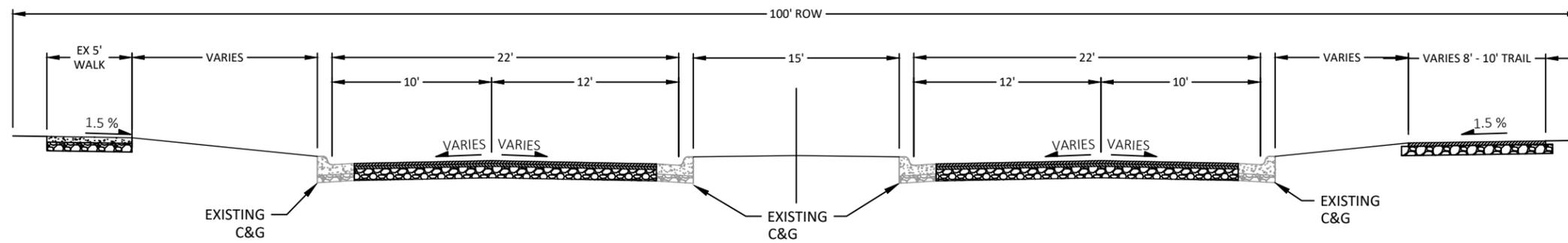
CURB AND GUTTER REPLACEMENT



TYPICAL SECTION
MAPLE STREET



TYPICAL SECTION
MAPLE COURT



TYPICAL SECTION
JEFFERSON PARKWAY

GENERAL NOTES:

1. SIDEWALK OR TRAIL MAY NOT EXIST ON ONE OR BOTH SIDES OF THE STREET IN SOME AREAS
2. ANY VARIATIONS FROM THE TYPICAL SECTION DIMENSIONS ARE SHOWN ON THE PLAN DRAWINGS
3. PAVEMENT SLOPES AT INTERSECTION LOCATIONS MAY VARY FROM THOSE SHOWN ON THE TYPICAL SECTION AND ARE SHOWN ON THE INTERSECTION PLAN DRAWINGS
4. CONTRACTOR SHALL MATCH ALL EXISTING DRAINAGE PATTERNS UNLESS OTHERWISE REQUESTED OR APPROVED BY THE ENGINEER. THE CONTRACTOR SHALL WORK WITH THE ENGINEER TO IDENTIFY PAVEMENT PROFILE ADJUSTMENTS IN THE FIELD AS NECESSARY TO MAINTAIN AND/OR IMPROVE DRAINAGE THROUGH INTERSECTIONS AND MAINTAIN/RE-ESTABLISH CROWN ALONG STREETS
5. SUBGRADE CORRECTION DEPTHS MAY NEED TO BE ALTERED IN THE FIELD, AS APPROVED BY THE ENGINEER, DEPENDING ON ACTUAL AGGREGATE OR SUBGRADE MATERIAL DISCOVERED
6. V-CURB MAY BE REQUIRED IN SOME AREAS TO PREVENT STEEP GRADES. V-CURB LOCATIONS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD

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NOTES:

- MATERIALS USED SHALL CONFORM TO SANITARY AND STORM SEWER SECTION OF THESE SPECIFICATIONS.
- REDUCER SECTION TO BE PRECAST ECCENTRIC TYPE WITH ON SIDE FACE RELATIVE TO MAINLINE THRU MANHOLE.
- STANDARD CASTING SHALL BE IDENTIFIED AS EITHER "SANITARY SEWER" OR "STORM SEWER", BY IMPRINTING THOSE WORDS ON THE COVER IN LETTERS TWO (2) INCHES IN HEIGHT.

STANDARD CASTING NEENAH R-1642B WITH TWO CONCEALED PICK HOLES

CONCRETE ADJUSTING RINGS
MAX. 4" RINGS TO BE INSTALLED
MIN. 2" RINGS TO BE INSTALLED

PRECAST ECCENTRIC REDUCER SECTION

WALLS TO BE CONSTRUCTED OF PRECAST SECTIONS CONCRETE SEWER. IF BLOCKS MUST BE USED THEY SHALL BE PLASTERED ON BOTH INTERIOR AND EXTERIOR. A MIN. OF (1) 1/2" SECTION SHALL BE INSTALLED BELOW THE CONE SECTION.

STEPS AS PER STANDARD PLATE SAN-1 INSTALL ON DOWNSTREAM SIDE OF MANHOLE

GROUT BOTTOM TO SLOPE TOWARD INVERT AS SHOWN BY ARROWS

SECTION A-A

ALL STEPS SHALL BE TURNED 1/8TH OF A TURN CLOCKWISE FROM THE DOWNSTREAM INVERT

JOINTS SHALL BE MADE USING CONFINED O-RING GASKETS AS SPECIFIED.

MANHOLE WALLS SHALL BE SLOPED TO PROVIDE SMOOTH FLOW FROM INLET TO OUTLET.

MANHOLE BOTTOMS SHALL BE PRE-FORMED. WHEN PIPES ARE 24" OR LARGER, THE BOTTOM OF MANHOLE SHALL BE CONSTRUCTED USING "T" SECTION.

FLEXIBLE SLEEVE CONNECTIONS ON ALL PIPES.

THE LARGEST DIAMETER OF PIPE THROUGH THE MANHOLE SHALL BE CONSTRUCTED CONTINUOUSLY WITH A LOWER 1/2 SECTION OF LINE PIPE OF THAT DIAMETER

6" CONCRETE BASE FOR ALL MANHOLES LESS THAN 14" DEEP. BOTTOM SECTION OF MANHOLE SHALL BE DESIGNED BY ENGINEER IF GROUNDWATER OR HYDROSTATIC PRESSURE IS PRESENT

DRAWN BY: B.D.H. NOT TO SCALE UPDATED: 2025

THE CITY OF NORTHFIELD MINNESOTA ESTD 1855 **ENGINEERING DIVISION** **STANDARD MANHOLE** **PLATE NO: SAN-1**

ROUGH DIAMOND SURFACE

1-1/4"

1-1/2"

1-1/2"

3-8"

1-3/4"

1-1/2"

2-1/2"

5-1/2"

1-3/4"

6" FOR PRECAST WALL SECTION
8" FOR BLOCK WALL SECTION

NOTES:

- MINOR VARIATIONS IN THE ABOVE DESIGN WHICH WILL NOT DECREASE STRENGTH WILL BE PERMITTED.
- ALL STEPS SHALL BE INSTALLED ON THE DOWNSTREAM SIDE OF THE MANHOLE EXCEPT FOR SANITARY MANHOLES, ALL STEPS SHALL BE TURNED CLOCKWISE 1/8TH OF A TURN FROM THE DOWNSTREAM INVERT.

DRAWN BY: B.D.H. NOT TO SCALE UPDATED: 2025

THE CITY OF NORTHFIELD MINNESOTA ESTD 1855 **ENGINEERING DIVISION** **MANHOLE STEP CASTING** **PLATE NO: SAN-6**

HIGH DENSITY POLYETHYLENE

COVER WITH TEMPORARY STEEL PLATE OR MANHOLE CASTING

PRECAST MANHOLE CORE

NOTE:

FOR ALL SANITARY MANHOLE AND STORM DRAINS THAT DO NOT HAVE INLET PROTECTION

DRAWN BY: B.D.H. NOT TO SCALE UPDATED: 2025

THE CITY OF NORTHFIELD MINNESOTA ESTD 1855 **ENGINEERING DIVISION** **TEMPORARY MANHOLE INSERTS** **PLATE NO: SAN-7**

PIPE SIZE	22 1/2" BEND			45" BEND			90" BEND		
	B ₁	D ₁	B ₂	D ₂	B ₃	D ₃	B ₄	D ₄	
6"	1'-8"	1'-8"	1'-8"	1'-8"	1'-8"	2'-1"	1'-6"		
8"	1'-8"	1'-8"	1'-8"	2'-1"	1'-6"	2'-8"	2'-0"		
12"	1'-10"	1'-10"	3'-4"	2'-0"	4'-8"	2'-6"			
16"	3'-0"	2'-0"	3'-10"	3'-0"	6'-2"	3'-6"			
20"	3'-6"	2'-8"	5'-6"	3'-4"	8'-4"	4'-0"			
24"	4'-4"	3'-0"	6'-10"	3'-10"	9'-8"	5'-0"			

NOTES:

- SHAPE OF BACK OF BUTTRESS MAY VARY AS LONG AS POURED AGAINST FIRM UNDISTURBED EARTH.
- DIMENSION 'A' SHOULD BE AS LARGE AS POSSIBLE.
- A = 45" MINIMUM.
- PLACE POLYETHYLENE BETWEEN CONCRETE & PIPE.
- ALL BENDS AND FITTINGS SHALL BE RESTRAINED WITH MEGALUGS THRUST RESTRAINTS OR EQUAL.

PLAN 45° TO 90° BENDS

PLAN 22 1/2° TO 45° BENDS

SECTION A-A

PLAN 0° TO 22 1/2° BENDS

CONCRETE SHALL BE IN CONTACT WITH THIS QUADRANT OF PIPE

CONCRETE

UNDISTURBED EARTH

BEDDING MATERIAL

DRAWN BY: B.D.H. NOT TO SCALE UPDATED: 2025

THE CITY OF NORTHFIELD MINNESOTA ESTD 1855 **ENGINEERING DIVISION** **CONCRETE THRUST BLOCKING** **PLATE NO: WAT-1**

HYDRANT MARKER WITH FLEX SPRING HYDRANT FINDER (CANDY CANE)

5' TO BACK OF CURB

18" MIN

2' - 4"

6" LEAD

6" CONCRETE BLOCK (TYPICAL)

1 CU. YD. OF 1 1/2" ROCK COVER WITH 2 LAYERS OF POLYETHYLENE.

NOTES:

- HYDRANT SHALL BE CLOW MEDALLION WITH 16" TRAFFIC BREAK OFF SECTION AND 6"-0" BURY.
- HYDRANT LEAD SHALL HAVE 8'-0" OF COVER. ANTI-CORROSION COATING REQUIRED ON ALL BOLTS AND RESTRAINT ASSEMBLY.
- COR-BLUE BOLTS & NUTS REQUIRED ON ALL MECHANICAL JOINT FITTINGS.
- FOR VALVE BOX INSTALLATION SEE DETAIL PLATE NO. WAT-3
- RETAIN HYDRANT, VALVE, AND TEE WITH MEGALUG THRUST RESTRAINT (OR EQUAL).
- RESILIENT SEATED WEDGE VALVE CONFORMING TO AWWA C-509-80 STANDARDS.

DRAWN BY: B.D.H. NOT TO SCALE UPDATED: 2025

THE CITY OF NORTHFIELD MINNESOTA ESTD 1855 **ENGINEERING DIVISION** **HYDRANT INSTALLATION** **PLATE NO: WAT-2**

WATER

DROP LID (CAST IRON)
TYLER NO. 8867
MUELLER NO. H-10361

EXTENSION (DUCTILE IRON)
TYLER NO. 58 14"
NO. 59 18"
NO. 60 24"

MUELLER NO. 58 14"
NO. 59 18"

TOP (CAST IRON)
TYLER NO. 8867 26"
MUELLER NO. H-10361 26"

BASE (DUCTILE IRON)
TYLER NO. 8860 30"
MUELLER NO. H-10361 65"

GRADE

ADJUST TOP TO 3/8" BELOW GRADE. SET BOX TO PROVIDE 12" OF ADJUSTMENT.

TYLER NO. 8860
MUELLER NO. H-10357

GATE VALVE BOX, SCREW TYPE, 3 PIECE, 5 1/4" SHAFT, SIZE G BOX, 6'-0" EXTENDED, 86 ROUND BASE

RESILIENT SEATED WEDGE VALVE CONFORMING TO AWWA C-509-80 STANDARDS

8" CONC. BLOCK

NOTES:

- THE ROD ASSEMBLY TO BE STAINLESS STEEL OR FUSION BONDED EPOXY COATED.
- COR-BLUE BOLTS & NUTS REQUIRED ON ALL MECHANICAL JOINT FITTINGS.
- 7.5" MINIMUM COVER REQUIRED OVER TOP OF WATER MAIN.
- RESTRAIN TEE AND VALVE WITH MEGALUG THRUST RESTRAINTS. (OR EQUAL)

DRAWN BY: B.D.H. NOT TO SCALE UPDATED: 2025

THE CITY OF NORTHFIELD MINNESOTA ESTD 1855 **ENGINEERING DIVISION** **GATE VALVE AND BOX INSTALLATION** **PLATE NO: WAT-3**

CONCRETE ADJUSTING RINGS MIN. 2 RINGS MAX. 4 RINGS

STANDARD CASTING NEENAH R-1642B

PRECAST ECCENTRIC REDUCER SECTION

16" O.C.

4" I.D. PRECAST SECTIONS

TOP SLAB AS PER STANDARD PLATE

5"

6" I.D. PRECAST SECTIONS

STEPS AS PER STANDARD PLATE

CONCRETE SLAB

7'-6"

8" MIN.

NOTES:

- MATERIALS USED SHALL CONFORM TO SANITARY AND STORM SEWER SECTION OF THESE SPECIFICATIONS.
- MANHOLE JOINTS WITH O-RING RUBBER GASKETS
- WALLS TO BE CONSTRUCTED OF PRECAST SECTIONS

DRAWN BY: B.D.H. NOT TO SCALE UPDATED: 2025

THE CITY OF NORTHFIELD MINNESOTA ESTD 1855 **ENGINEERING DIVISION** **TOP SLAB MANHOLE 48" DIAMETER RISER SECTION** **PLATE NO: STM-1**

BACK OF CURB

24"x36" SLAB OPENING R-3067

CATCH BASIN CASTING NEENAH R387 WITH TYPE "T" GRATE

FOR CATCH BASINS SITUATED IN VALLEY GUTTER, UTILIZE CATCH BASIN CASTING NEENAH R382.

FOR STREET GRADES ABOVE 5% USE A TYPE "V" GRATE

RINGS MIN.-2, MAX.-4 (12") FULL BED OF MORTAR BETWEEN RINGS, 6" CONCRETE COLLAR AROUND OUTSIDE OF RINGS AND CASTING FLANGE.

6" PRECAST REINFORCED CONCRETE SLAB

PRECAST MANHOLE SECTIONS

ALL JOINTS IN MANHOLE TO HAVE "O" RING RUBBER GASKET

6" CONCRETE BASE FOR ALL MANHOLES LESS THAN 14" DEEP. BOTTOM SECTION OF MANHOLE SHALL BE DESIGNED BY AN ENGINEER IF GROUNDWATER OR HYDROSTATIC PRESSURE IS PRESENT.

DOGHOUSE SHALL BE GROUTED ON BOTH OUTSIDE AND INSIDE.

GRATE TO BE 0.1" BELOW GUTTER GRADE. SLOPE GUTTER 0' EACH SIDE OF CATCH BASIN. 5' BOX OUT REQUIRED EACH SIDE OF CATCH BASIN WITH EXPANSION MATERIAL.

DRAWN BY: B.D.H. NOT TO SCALE UPDATED: 2025

THE CITY OF NORTHFIELD MINNESOTA ESTD 1855 **ENGINEERING DIVISION** **CATCH BASIN MANHOLE** **PLATE NO: STM-2**

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

DAVID E BENNETT, P.E.
LIC. NO. 45867 DATE XX/XX/XXXX



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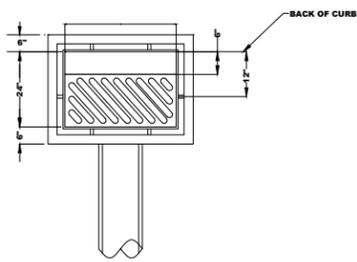


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CHECKED	SMS		
CLIENT PROJ. NO.	STR 2026 - A83		

NORTHFIELD, MINNESOTA
2026 JEFFERSON PKWY M&O AND MTST
DETAILS
STANDARD PLATES

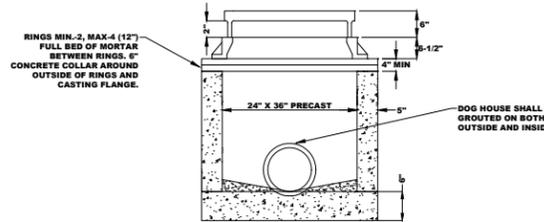
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C1.04
19
OF
140

- NOTES:
 1. PROVIDE INVERTS FOR 4" PE TILE 30" BELOW T.C. WHERE NEEDED.
 2. LOCATIONS TO BE VERIFIED DURING SHOP DRAWING REVIEW.



CATCH BASIN CASTING: NEEHAN R-3067 OR EQUAL, WITH TYPE "R" GRATE FOR STREET GRADES UP TO 5%. STREET GRADES 5% OR GREATER, USE A TYPE "V" GRATE.

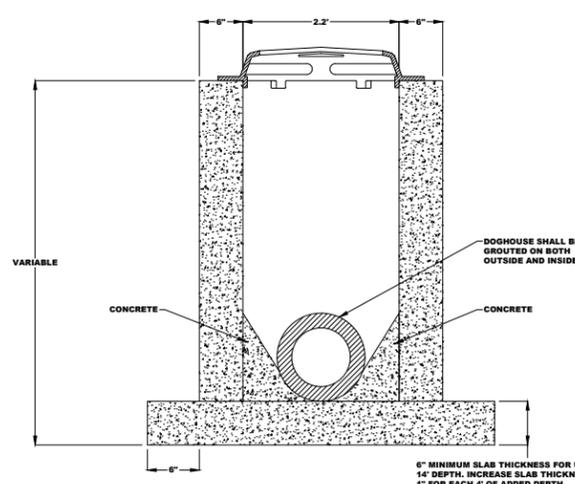
GRATE TO BE 0.1' BELOW GUTTER GRADE. SLOPE GUTTER 5' EACH SIDE OF CATCH BASIN. 5' BOXOUT REQUIRED EACH SIDE OF CATCH BASIN WITH EXPANSION MATERIAL.



DRAWN BY: B.D.H. NOT TO SCALE PLATE NO: STM-3 UPDATED: 2025

THE CITY OF NORTHFIELD MINNESOTA ESTD 1855
ENGINEERING DIVISION
 DRAINAGE STRUCTURE DESIGN SPECIAL

USE BEEHIVE GRATE W/FRAME NEEHAN NO. R-4342 OR APPROVED EQUAL

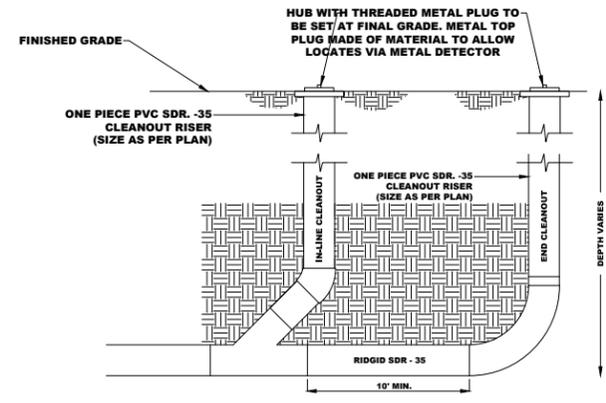


DOGHOUSE SHALL BE GROUTED ON BOTH OUTSIDE AND INSIDE.

6" MINIMUM SLAB THICKNESS FOR UP TO 14" DEPTH. INCREASE SLAB THICKNESS 1" FOR EACH 4" OF ADDED DEPTH REINFORCE W/6"x6", 10/10 MESH

DRAWN BY: B.D.H. NOT TO SCALE PLATE NO: STM-4 UPDATED: 2025

THE CITY OF NORTHFIELD MINNESOTA ESTD 1855
ENGINEERING DIVISION
 CATCH BASIN WITH BEEHIVE STYLE CASTING

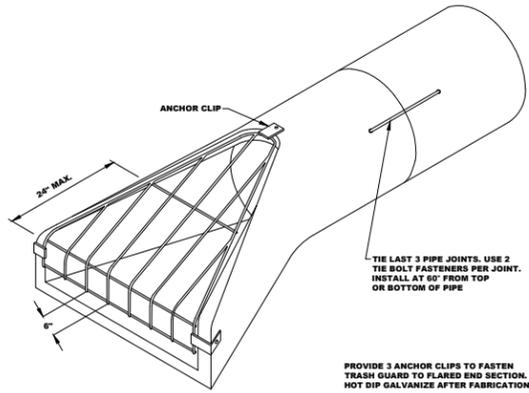


- NOTE:
 1. SOLVENT WELD ALL JOINTS ON CLEAN OUT (NON GASKETED).
 2. CLEAN OUTS SHALL BE SPACED AT 300' INTERVALS (MAXIMUM).
 3. BENDS AND RISER TO BE SAME SIZE AS DRAINTILE MAIN.
 4. ALL DRAINTILE MUST HAVE TRACER WIRE TAPED TO THE TOP OF THE PIPE AND BE BROUGHT UP TO THE SURFACE AT EACH STRUCTURE OR CLEAN OUT. TRACER WIRE AS PER SPECIFICATIONS. FOLLOWING COMPLETION, THE CONTRACTOR WILL BE REQUIRED TO PASS A LOW VOLTAGE CONDUCTIVITY TEST.

DRAWN BY: B.D.H. NOT TO SCALE PLATE NO: STM-7 UPDATED: 2025

THE CITY OF NORTHFIELD MINNESOTA ESTD 1855
ENGINEERING DIVISION
 DRAIN TILE CLEANOUT

SEE PLATE NO. STM-9 FOR RIPRAP PLACEMENT.

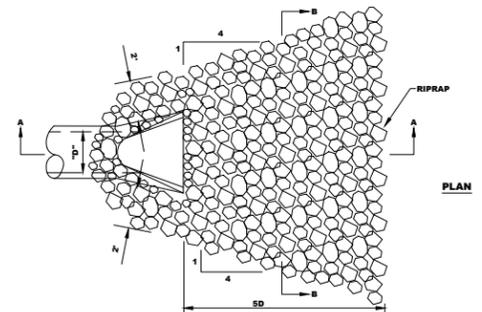


PROVIDE 3 ANCHOR CLIPS TO FASTEN TRASH GUARD TO FLARED END SECTION. NOT DIP GALVANIZE AFTER FABRICATION.

PIPE SIZE	TRASH GUARD SIZING BARS	H'	BOLTS
12"	3/4"Ø	2 1/2"	5/8"
15"	3/4"Ø	3"	5/8"
18"	3/4"Ø	4"	5/8"
21"-24"	1"Ø	4"	3/4"
27"-36"	1"Ø	5"	3/4"
42"	1"Ø	6"	3/4"
48"-54"	1 1/4"Ø	6"	1"
60"-72"	1 1/4"Ø	7"	1"
78"-90"	1 1/4"Ø	8"	1"

DRAWN BY: B.D.H. NOT TO SCALE PLATE NO: STM-8 UPDATED: 2025

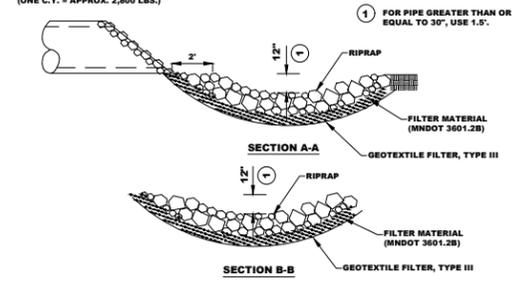
THE CITY OF NORTHFIELD MINNESOTA ESTD 1855
ENGINEERING DIVISION
 FLARED END SECTION WITH TRASH GUARD



PIPE "D"

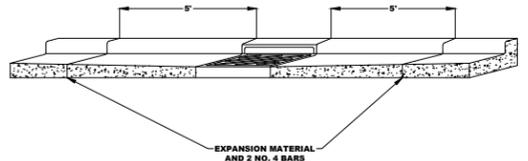
PIPE "D"	RIPRAP	FILTER BLANKET (MNDOT 3733)
12" TO 24"	8 TO 12 C.Y. CL-2	8 TO 12 S.Y., TYPE III
27" TO 33"	14 TO 20 C.Y. CL-3	14 TO 20 S.Y., TYPE IV
36" TO 48"	23 TO 38 C.Y. CL-3	23 TO 38 S.Y., TYPE IV
54" AND UP	62 C.Y. AND UP CL-4	40 S.Y. AND UP, TYPE IV

(ONE C.Y. = APPROX. 2,800 LBS.)



DRAWN BY: B.D.H. NOT TO SCALE PLATE NO: STM-9 UPDATED: 2025

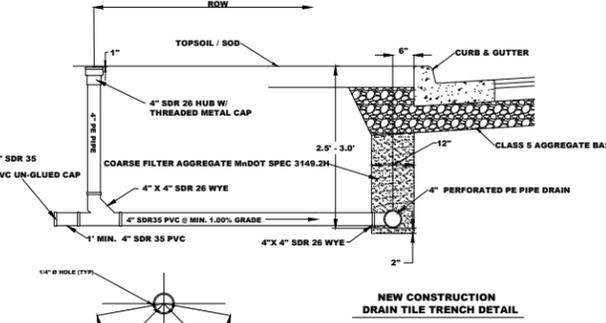
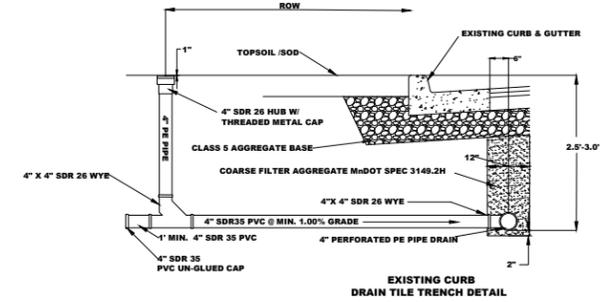
THE CITY OF NORTHFIELD MINNESOTA ESTD 1855
ENGINEERING DIVISION
 RIPRAP AT OUTLETS



- NOTES:
 1. 6" CONCRETE COLLAR SHALL BE POURED AROUND OUTSIDE OF RINGS AND CASTING FLANGE.
 2. BOXOUTS SHALL HAVE 0.10' DROP TO CASTING.
 3. DRILL AND GROUT 2 NO. 4 12" LONG REINFORCEMENT BARS (EPOXY COATED) 3" MINIMUM FROM CURB EDGE ON FRONT AND BACK

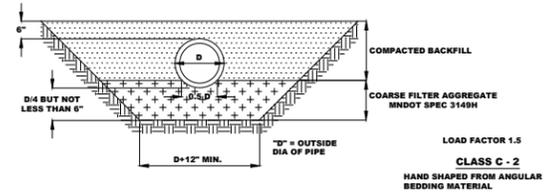
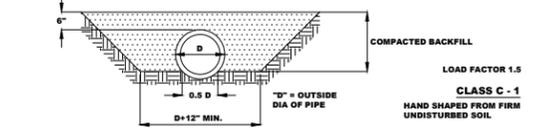
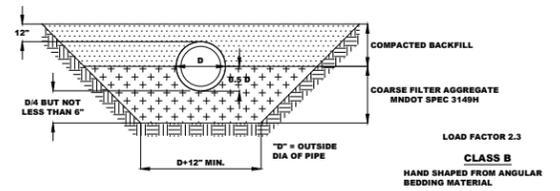
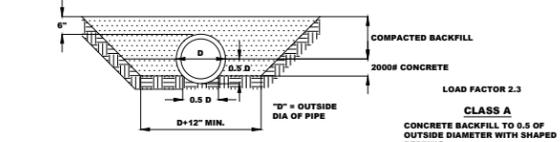
DRAWN BY: B.D.H. NOT TO SCALE PLATE NO: STM-10 UPDATED: 2025

THE CITY OF NORTHFIELD MINNESOTA ESTD 1855
ENGINEERING DIVISION
 CATCH BASIN BOXOUT



DRAWN BY: B.D.H. NOT TO SCALE PLATE NO: STM-13 UPDATED: 2025

THE CITY OF NORTHFIELD MINNESOTA ESTD 1855
ENGINEERING DIVISION
 DRAIN TILE TRENCH DETAIL WITH CLEANOUT



DRAWN BY: B.D.H. NOT TO SCALE PLATE NO: BED-1 UPDATED: 2025

THE CITY OF NORTHFIELD MINNESOTA ESTD 1855
ENGINEERING DIVISION
 BEDDING METHODS FOR RCP OR DIP

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I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

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SMS			
CLIENT PROJ. NO.:	STR 2026 - A83		

NORTHFIELD, MINNESOTA
 2026 JEFFERSON PKWY M&O AND MTST
 DETAILS
 STANDARD PLATES

SHEET
 C1.05
 20
 OF
 140

Street St
Street St

SERIES MAY BE MODIFIED TO B SERIES TO KEEP BLADES AT MAX 48"

SHIP TO: NORTHFIELD

Spec: 9XL, S/F, HP, 080, WG, E450, E450, 6", UL
City: Plate size: 9"

SEND ART FOR APPROVAL

Reflective Sheeting	Type	Plate Length
<input checked="" type="checkbox"/> Engineer Grade	<input checked="" type="checkbox"/> Single face	<input checked="" type="checkbox"/> Minimum Length 24 inches
<input checked="" type="checkbox"/> Hi-Intensity	<input checked="" type="checkbox"/> Double Face	<input checked="" type="checkbox"/> Maximum Length 48 inches

Size	Punching	Logo
<input checked="" type="checkbox"/> 6" Flat .080	<input type="checkbox"/> None	<input type="checkbox"/> Yes
<input checked="" type="checkbox"/> 9" Flat .080	<input type="checkbox"/> E-Series	<input type="checkbox"/> Right Side of Plate
<input type="checkbox"/> 12" Flat	<input checked="" type="checkbox"/> Telespar (2-7/16" Holes, 2-5/16" Holes, 1/2" P)	<input type="checkbox"/> Left Side of Plate
<input type="checkbox"/> 9" Extruded	Other:	<input checked="" type="checkbox"/> No

Border	Letter Size	Letter Format
<input type="checkbox"/> None	<input type="checkbox"/> All 4"	<input type="checkbox"/> 4" W/2" Superscript
<input checked="" type="checkbox"/> E-Series	<input type="checkbox"/> All 6"	<input type="checkbox"/> 5" W/2-1/2" Superscript
<input type="checkbox"/> 3/8" Border	<input checked="" type="checkbox"/> 4" W/2" SufPre	<input type="checkbox"/> 6" W/3" PS
	<input type="checkbox"/> 6" W/3" SufPre	Other:(Specify Below)
	<input type="checkbox"/> 5" W/2-1/2" SufPre	

Letter Series	Letter Color	Background Color
<input type="checkbox"/> B Series	<input checked="" type="checkbox"/> White	<input type="checkbox"/> White
<input checked="" type="checkbox"/> C Series	<input type="checkbox"/> Black	<input checked="" type="checkbox"/> Green
Other:	Other:	<input type="checkbox"/> Blue (Private Streets)

DRAWN BY: B.D.H. NOT TO SCALE UPDATED: 2025

THE CITY OF NORTHFIELD MINNESOTA ESTD 1855

ENGINEERING DIVISION

PLATE NO: STR-16
STANDARD STREET SIGN

BALL AND BURLAP (B&B) ROOT BALL PREPARATION AND PLANTING

USE OF THIS DETAIL PLATE IS ONLY APPLICABLE IN AREAS OF NON-DISTURBED SOIL LOCATIONS. THE AREA SHOULD NOT BE INCLUDED AS PART OF THE WORK SPACE AND MUST NOT BE COMPACTED OR UTILIZED DURING CONSTRUCTION IN ANY MANNER INCLUDING STAGING OF MATERIALS OR EQUIPMENT. ANY USE OF THIS AREA WOULD THEN REQUIRE REMOVAL AND REPLACEMENT OF SOIL TO CREATE THE REQUIRED 800 CUBIC FEET OF SOIL VOLUME FOR EACH TREE.

STAKING-MINIMUM 5' TALL WOOD (1-1/2" X 1-1/2") OR METAL FENCE POST STAKES
STAKE INTO UNDISTURBED SOIL
STAKE REMAIN FOR 1 YEAR MINIMUM

PRUNE AND REMOVE ADVENTITIOUS AND FIBROUS ROOTS ABOVE THE ROOT FLARE
ROOT FLARE AND TOP OF 1ST MAIN ROOT MUST BE VISIBLE
SHREDDED HARDWOOD BARK MULCH 4" MAX DEPTH, KEEP MULCH 2" BACK FROM ROOT FLARE

PREPARED PLANTING AREA
UNDISTURBED NATIVE SOIL

3X WIDTH OF ROOT BALL

1. A PLANTING PERMIT IS REQUIRED TO PLANT ANY TREE IN A RIGHT OF WAY IN THE CITY OF NORTHFIELD
2. ALL PLANTS MUST MEET THE "AMERICAN STANDARD FOR NURSERY STOCK" (ANSI Z66)
3. IDENTIFY 1ST MAIN ROOT. SET AT 1 INCH ABOVE GRADE. DIG HOLE ONLY DEEP ENOUGH TO ALLOW FOR UNDISTURBED SOIL DIRECTLY BENEATH TREE ROOTS TO MINIMIZE CHANCE OF SETTLING AND BACKFILL.
4. WATER THOROUGHLY TO SETTLE ANY AIR POCKETS AND ADD SOIL IF SINK HOLES DEVELOP
5. ROOT FLARE AND TOP OF 1ST MAIN ROOT MUST BE VISIBLE WHEN BACK FILLING IS COMPLETE
6. EACH TREE REQUIRES A MINIMUM 800 CUBIC FEET OF NON-COMPACTED LOAM SOILS

1. REMOVE TOP 1/2 OF PACKAGING TO FIND THE 1ST MAIN ROOT AND REMOVE ALL SOIL FROM ROOT BALL ABOVE IT. DIG HOLE TO DEPTH OF REMAINING ROOT BALL DEPTH AND PLACE THE TREE IN THE HOLE. REMOVE ALL REMAINING PACKAGING AND BACKFILL WITHOUT COMPACTING THE SOIL
2. IF TREES ARE BROUGHT TO THE SITE EARLY ENSURE THAT TREES ARE STORED IN A SHADED AREA AND ADEQUATELY WATERED BEFORE PLANTING

DRAWN BY: B.D.H. NOT TO SCALE UPDATED: 2025

THE CITY OF NORTHFIELD MINNESOTA ESTD 1855

ENGINEERING DIVISION

PLATE NO: STR-15
TREE PLANTING DETAIL

IMPERVIOUS SURFACE
WASHED ROCK OR WOODMULCH PER SPECIFICATIONS
ROCK - 6" MINIMUM DEPTH- WOODMULCH - 18" MINIMUM DEPTH
50' MINIMUM LENGTH
20' MINIMUM WIDTH
18" MINIMUM CUT OFF BERM TO MINIMIZE RUNOFF FROM SITE

PROVIDE RADIUS AS NEEDED (TYP)

NOTES:
1. MINIMUM ROCK SIZE SHALL BE 1 1/2".
2. FILTER FABRIC SHALL BE PLACED UNDER ROCK OR MULCH TO STOP MUD MIGRATION THROUGH MATERIAL.
3. ENTRANCE MUST BE MAINTAINED REGULARLY TO PREVENT SEDIMENTATION ON PUBLIC ROADWAYS. FUGITIVE ROCK OR MULCH WILL BE REMOVED FROM ADJACENT ROADWAYS DAILY OR MORE FREQUENTLY AS NECESSARY.

DRAWN BY: B.D.H. NOT TO SCALE UPDATED: 2025

THE CITY OF NORTHFIELD MINNESOTA ESTD 1855

ENGINEERING DIVISION

PLATE NO: ERO-1
STABILIZED CONSTRUCTION ENTRANCE

PLASTIC ZIP TIES (50LB TENSILE STRENGTH) LOCATED IN TOP 8"
STEEL T STUDDED POST 5' MIN LENGTH AT 6' SPACING OR 2" X 2" WOOD POST EMBEDDED 1.5' INTO THE GROUND 4' MIN LENGTH AT 4' MAX. SPACING
APPROVED MnDOT SILT FENCE FABRIC 36" WIDE, FASTEN TO STAKES.
FABRIC ANCHORAGE TRENCH. BACKFILL WITH TAMPED NATURAL SOIL
DIRECTION OF RUNOFF FLOW
2' MIN. POST EMBEDMENT
30" MIN.
6" MIN.
MACHINE SLICED 8" - 12" DEEP

DRAWN BY: B.D.H. NOT TO SCALE UPDATED: 2025

THE CITY OF NORTHFIELD MINNESOTA ESTD 1855

ENGINEERING DIVISION

PLATE NO: ERO-2
SILT FENCE INSTALLATION

CURB AND GUTTER REPAIR

PLAN VIEW
DRILL AND GROUT NO.4 X 18" LONG EPOXY COATED REBAR
IN PLACE JOINTS
IN PLACE JOINT
BACK OF CURB
GUTTER LINE
TOE OF CURB
EXISTING STREET PAVEMENT
AREA TO BE REMOVED

CROSS SECTION VIEW
SAW CUT
EXISTING CURB AND GUTTER
DRILL AND GROUT NO.4 X 18" LONG EPOXY COATED REBAR
3" MIN.

NOTES:
1. WHEN THE EXISTING PAVEMENT IS CONCRETE, DRILL AND GROUT REINFORCEMENT BARS AT 30" CENTERS.
2. LOCATE SAW CUT TO LEAVE A MINIMUM OF 3" OF IN PLACE CURB AND GUTTER BETWEEN AN EXISTING JOINT AND THE PROPOSED SAW CUT. IF THE 3" MINIMUM CAN NOT BE MAINTAINED, PLACE THE SAW CUT OVER THE EXISTING JOINT.

REPAIR SIDEWALK

PLAN VIEW
EXISTING JOINT
(TWO) NO.4 X 12" LONG EPOXY COATED REBAR
SAW CUT ON EXISTING JOINT (FULL DEPTH)

PROFILE VIEW
(TWO) NO.4 X 12" LONG EPOXY COATED REBAR
4" SIDEWALK (TYP)
SIDEWALK TO REMAIN IN PLACE
SIDEWALK TO BE REMOVED

NOTES:
1. PLACE PREFORMED JOINT FILLER WHEN SIDEWALK IS PLACED ADJACENT TO CONCRETE CURB AND GUTTER.
2. WHERE THE SIDEWALK DOUBLES AS A DRIVEWAY, PLACE 6" CONCRETE DRIVEWAY PAVEMENT. SEE STANDARD PLATES STR-1 THROUGH STR-4.

DRAWN BY: B.D.H. NOT TO SCALE UPDATED: 2025

THE CITY OF NORTHFIELD MINNESOTA ESTD 1855

ENGINEERING DIVISION

PLATE NO: STR-13
SIDEWALK AND CURB AND GUTTER SPOT REPAIRS

18"
41"-45"
6"-8"
24"
CURB GUTTERLINE
URBAN STREET
NEWSPAPER BOX

18"
6"-8"
24"
EDGE OF PAVEMENT
RURAL STREET
NEWSPAPER BOX

NOTES:
1. DIMENSIONS AS PER U.S. POSTAL SERVICE
2. ADDRESS MUST BE ON SIDE OF BOX FROM WHICH CARRIER APPROACHES IN LETTERS ABOUT ONE INCH HIGH (OR ON FRONT WHERE BOXES ARE GROUPED)

DRAWN BY: B.D.H. NOT TO SCALE UPDATED: 2025

THE CITY OF NORTHFIELD MINNESOTA ESTD 1855

ENGINEERING DIVISION

PLATE NO: GEN-3
MAIL BOX INSTALLATION DETAIL

BITUMINOUS PATCH
SAW CUT EDGE
SANITARY SEWER MANHOLE
BITUMINOUS PATCH
SAW CUT EDGE
1/4" TO 1/2" BELOW FINISH SURFACE

NOTES:
1. ALL MANHOLES WILL BE RAISED TWICE, ONCE AFTER BASE COURSE, AND ONCE BEFORE THE WEAR COURSE.
2. BASE COURSE - LEAVE MANHOLE CASTINGS 1/4" - 1/2" BELOW FINISH GRADE.
3. WEAR COURSE - LEAVE MANHOLE 1/4" - 1/2" BELOW FINISH GRADE.
4. GATE VALVES - LEAVE GATE VALVES 1/4" - 1/2" BELOW BOTH BASE AND WEAR COURSE.
5. ALL EDGES SHALL BE NEATLY SAW CUT BEFORE PATCHING.

DRAWN BY: B.D.H. NOT TO SCALE UPDATED: 2025

THE CITY OF NORTHFIELD MINNESOTA ESTD 1855

ENGINEERING DIVISION

PLATE NO: STR-12
TYPICAL FINISHED GRADE CASTING

18"
24"
TREE ROOT BARRIER PANEL
ROOT BARRIER DETAIL

A. ROOTBARRIER SHALL BE DEEPROOT URBAN LANDSCAPE PRODUCTS UB 18-2 OR APPROVED EQUAL. TEL: 800-458-7668 OR 415-781-9700 <http://www.deeproot.com>.

B. BARRIER SHALL BE OF HIGH QUALITY 50% POST-CONSUMER RECYCLED INJECTION MOLDED CO-POLYMER POLYPROPYLENE, MANUFACTURED IN ISO 9002 CERTIFIED FACTORIES.

C. Panels shall be 18" high by 24" long.

DRAWN BY: B.D.H. NOT TO SCALE UPDATED: 2025

THE CITY OF NORTHFIELD MINNESOTA ESTD 1855

ENGINEERING DIVISION

PLATE NO: STR-17
ROOT BARRIER DETAIL

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DAVID E BENNETT, P.E.
LIC. NO. 45867 DATE XX/XX/XXXX

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THE CITY OF NORTHFIELD MINNESOTA ESTD 1855

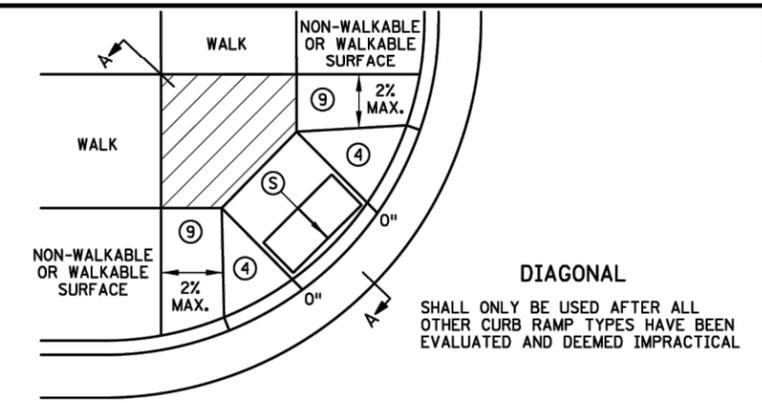
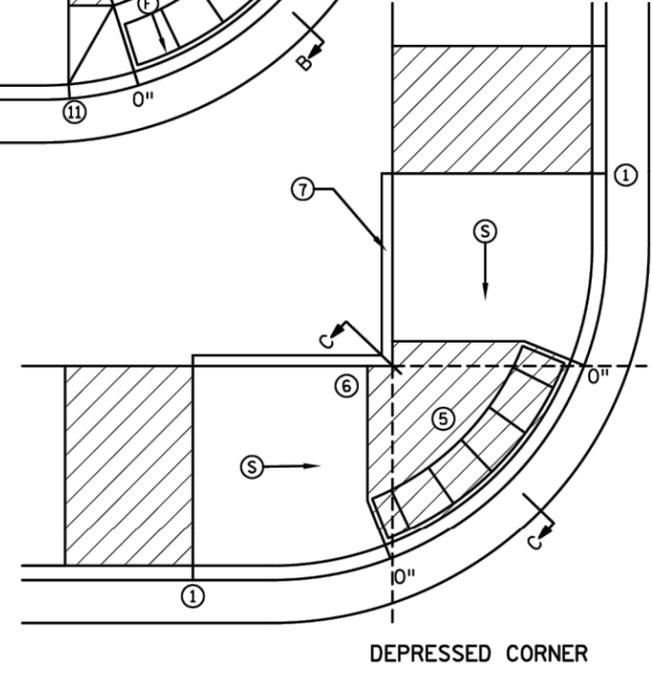
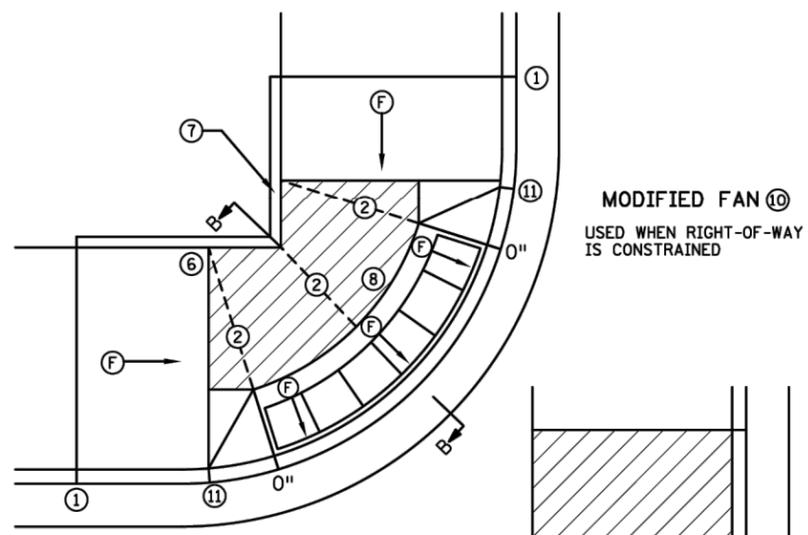
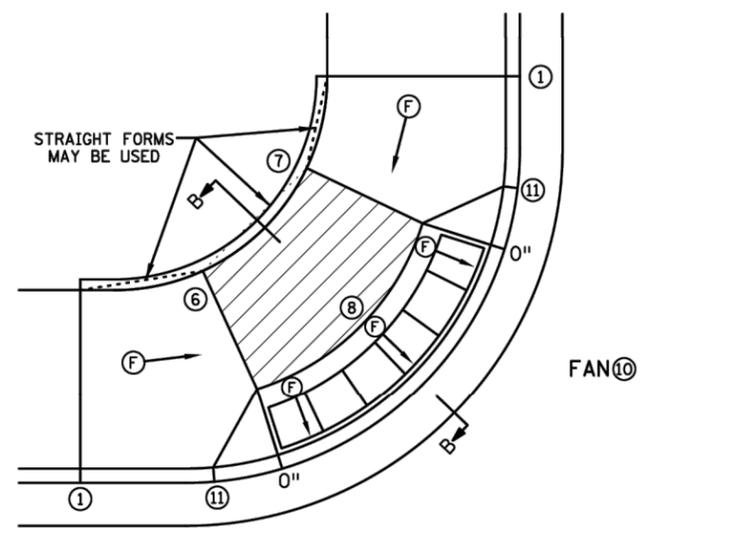
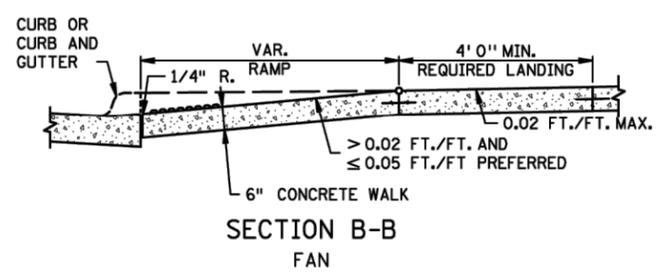
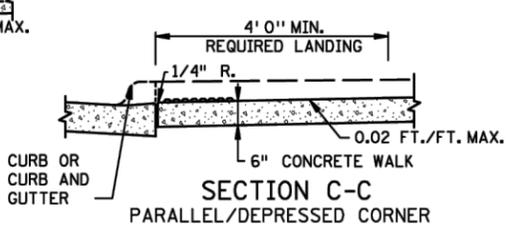
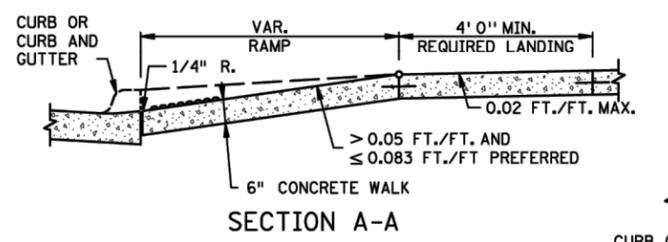
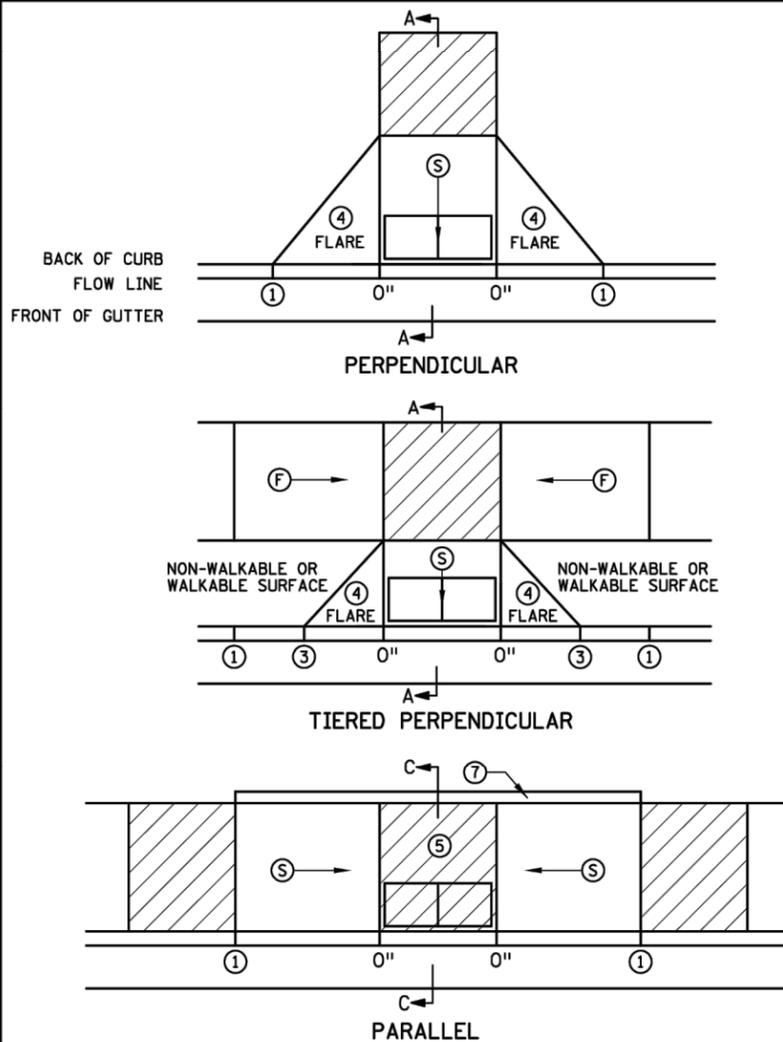
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CHECKED: SMS
CLIENT PROJ. NO: STRT 2026-AB3

NORTHFIELD, MINNESOTA
2026 JEFFERSON PKWY M&O AND MTST
DETAILS
STANDARD PLATES

SHEET C1.07
22 OF 140

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- NOTES:**
- LANDINGS SHALL BE LOCATED ANYWHERE THE PEDESTRIAN ACCESS ROUTE (PAR) CHANGES DIRECTION, AT THE TOP OF RAMPS THAT HAVE RUNNING SLOPES GREATER THAN 5.0%, AND IF THE APPROACHING WALK IS INVERSE GRADE GREATER THAN 2%.
- INITIAL CURB RAMP LANDINGS SHALL BE CONSTRUCTED WITHIN 15' FROM THE BACK OF CURB, WITH 6' FROM THE BACK OF CURB BEING THE PREFERRED DISTANCE, ONLY APPLICABLE WHEN THE INITIAL RAMP RUNNING SLOPE IS OVER 5.0%.
- SECONDARY CURB RAMP LANDINGS ARE REQUIRED FOR EVERY 30" OF VERTICAL RISE WHEN THE LONGITUDINAL RUNNING SLOPE IS GREATER THAN 5.0%.
- CONTRACTION JOINTS SHALL BE CONSTRUCTED ALONG ALL GRADE BREAKS WITHIN THE PAR. 1/4" DEEP VISUAL JOINTS SHALL BE USED AT THE TOPS OF CONCRETE FLARES ADJACENT TO WALKABLE SURFACES.
- ALL GRADE BREAKS WITHIN THE PAR SHALL BE PERPENDICULAR TO THE PATH OF TRAVEL, THUS BOTH SIDES OF A SLOPED WALKING SURFACE MUST BE EQUAL LENGTH. (EXCEPT AS STATED IN 6) BELOW.
- TO ENSURE RAMPS AND LANDINGS ARE PROPERLY CONSTRUCTED, ALL INITIAL LANDINGS AT A TOP OF A RAMPED SURFACE (RUNNING SLOPE GREATER THAN 2%) SHALL BE FORMED AND PLACED SEPARATELY IN AN INDEPENDENT CONCRETE POUR. FOLLOW SIDEWALK REINFORCEMENT DETAILS ON SHEET 6 OF 6 FOR ALL SEPARATELY POURED INITIAL LANDINGS.
- WHEN SIDEWALK IS AT BACK OF CURB, TOP OF CURB SHALL MATCH PROPOSED ADJACENT WALK GRADE. MAINTAIN POSITIVE BOULEVARD DRAINAGE TO TOP OF CURB.
- ALL RAMP TYPES SHOULD HAVE A MINIMUM 3' LONG RAMP LENGTH.
- 4' MINIMUM WIDTH OF DETECTABLE WARNING IS REQUIRED FOR ALL RAMPS. DETECTABLE WARNINGS SHALL CONTINUOUSLY EXTEND FOR A MIN. OF 24" IN THE PATH OF TRAVEL. DETECTABLE WARNING TO COVER THE ENTIRE PAR WIDTH OF SHARED-USE PATHS AND THE ENTIRE PAR WIDTH OF THE WALK WITH THE EXCEPTION OF 3" MAXIMUM ON EACH OUTSIDE EDGE WHICH ENSURES THE DETECTABLE WARNINGS ARE ENCASED IN CONCRETE WHEN ADJACENT TO TURF. WHEN ADJACENT TO CONCRETE FLARES 0" - 3" OFFSET IS ALLOWED.
- WHEN DESIGNING OR ORDERING RECTANGULAR DETECTABLE WARNING SURFACES SHOULD BE 6" LESS THAN THE INCOMING PAR. ARC LENGTH OF THE RADIAL DETECTABLE WARNINGS SHOULD NOT BE GREATER THAN 20 FEET.
- RECTANGULAR DETECTABLE WARNINGS SHALL BE SETBACK 3" FROM THE BACK OF CURB. RADIAL DETECTABLE WARNINGS SHALL BE SETBACK 3" MINIMUM TO 6" MAXIMUM FROM THE BACK OF CURB.
- 1 MATCH FULL HEIGHT CURB.
 - 2 4' MINIMUM DEPTH LANDING REQUIRED ACROSS TOP OF RAMP.
 - 3 3" HIGH CURB WHEN USING A 3' LONG RAMP, 4" HIGH CURB WHEN USING A 4' LONG RAMP.
 - 4 SEE SHEET 4 OF 6, TYPICAL SIDE TREATMENT OPTIONS, FOR DETAILS ON FLARES AND RETURNED CURBS.
 - 5 DETECTABLE WARNINGS MAY BE PART OF THE 4' X 4' MIN. LANDING AREA IF IT IS NOT FEASIBLE TO CONSTRUCT THE LANDING OUTSIDE OF THE DETECTABLE WARNING AREA.
 - 6 THE GRADE BREAK SHALL BE PERPENDICULAR TO THE BACK OF WALK. THIS WILL ENSURE THAT THE GRADE BREAK IS PERPENDICULAR TO THE DIRECTION OF TRAVEL. (TYPICAL FOR ALL)
 - 7 WHEN ADJACENT TO GRASS, GRADING SHALL ALWAYS BE USED WHEN FEASIBLE. V CURB, IF USED, SHALL BE PLACED OUTSIDE THE SIDEWALK LIMITS WHEN RIGHT OF WAY ALLOWS. WHEN ADJACENT TO PARKING LOTS, CONCRETE OR BITUMINOUS TAPERS LESS THAN 5% RUNNING SLOPE SHOULD BE USED OVER V CURB TO REDUCE TRIPPING HAZARDS AND FACILITATE SNOW & ICE REMOVAL.
 - 8 A 7' MIN TOP RADIUS GRADE BREAK IS REQUIRED TO BE CONSTRUCTIBLE.
 - 9 PAVE FULL WALK WIDTH.
 - 10 "S" SLOPES ON FANS SHALL ONLY BE USED WHEN ALL OTHER FEASIBLE OPTIONS HAVE BEEN EVALUATED AND DEEMED IMPRACTICAL.
 - 11 INTERMEDIATE CURB HEIGHTS TAPER SHALL RISE AT 8-10% TO A MINIMUM 3" CURB HEIGHT. REDUCE INTERMEDIATE CURB HEIGHT TO 2+ INCHES IF NECESSARY TO MATCH ADJACENT BOULEVARD OR SIDEWALK GRADES.

LEGEND

THESE LONGITUDINAL SLOPE RANGES SHALL BE THE STARTING POINT. IF SITE CONDITIONS WARRANT, LONGITUDINAL SLOPES UP TO 8.3% OR FLATTER ARE ALLOWED.

S INDICATES PEDESTRIAN RAMP - SLOPE SHALL BE BETWEEN 5.0% MINIMUM AND 8.3% MAXIMUM IN THE DIRECTION SHOWN AND THE CROSS SLOPE SHALL NOT EXCEED 2.0%.

F INDICATES PEDESTRIAN RAMP - SLOPE SHALL BE GREATER THAN 2.0% AND LESS THAN 5.0% IN THE DIRECTION SHOWN AND CROSS SLOPE SHALL NOT EXCEED 2.0%.

LANDING AREA - 4' X 4' MIN. (5' X 5' MIN. PREFERRED) DIMENSIONS AND MAX 2.0% SLOPE IN ALL DIRECTIONS. LANDING SHALL BE FULL WIDTH OF INCOMING PAR.

X" CURB HEIGHT

REVISIONS:

APPROVED: 11-04-2021

Jeff J. Perkins
JEFFREY PERKINS
OPERATIONS DIVISION

MINNESOTA
DEPARTMENT OF TRANSPORTATION

STANDARD PLAN 5-297.250 1 OF 6

APPROVED: 11-04-2021
REVISED:

Thomas Styrbicki
THOMAS STYRBICKI
STATE DESIGN ENGINEER

STATE PROJ. NO. (TH) SHEET NO. OF SHEETS

PEDESTRIAN CURB RAMP DETAILS

NORTHFIELD, MINNESOTA

2026 JEFFERSON PKWY M&O AND MTST

DETAILS

MNDOT ADA DETAILS (SHEET 1 OF 6)

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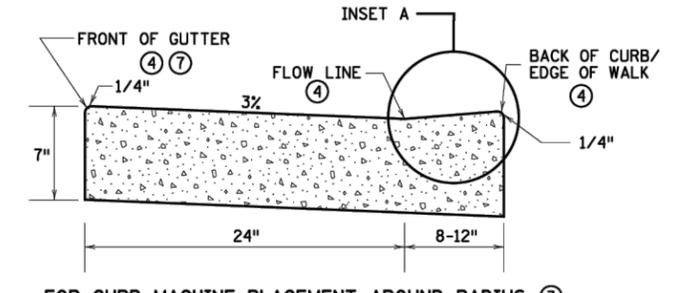
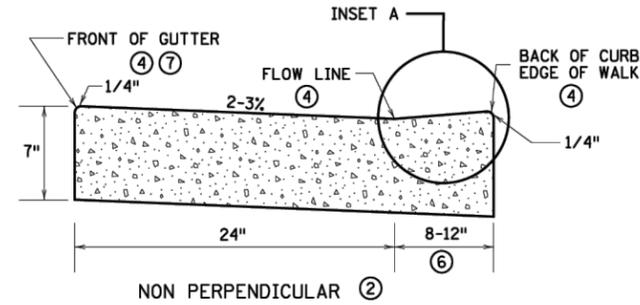
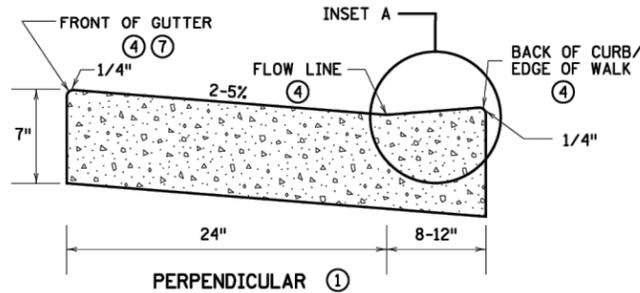
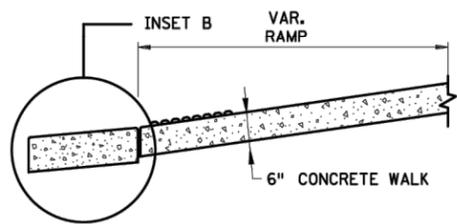


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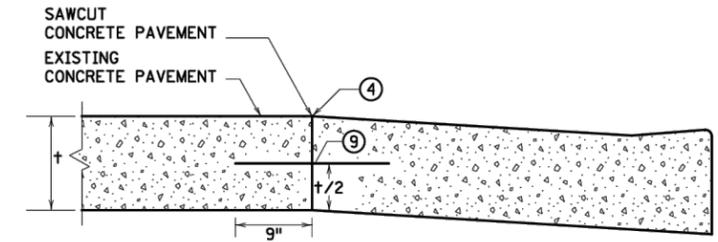
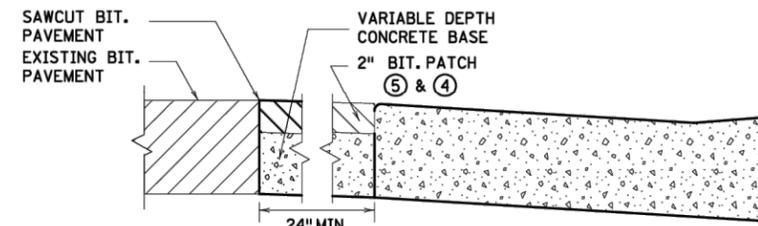
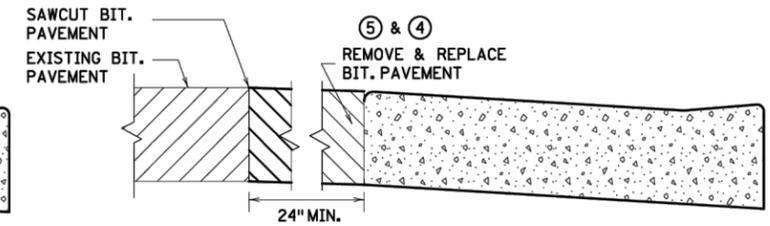
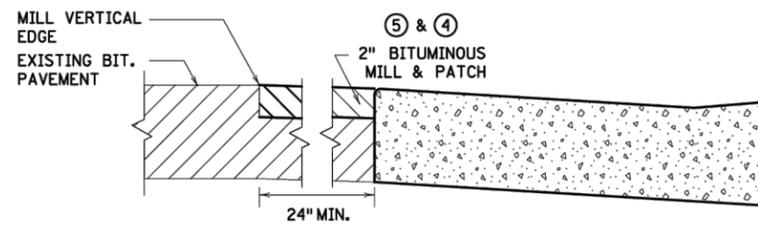
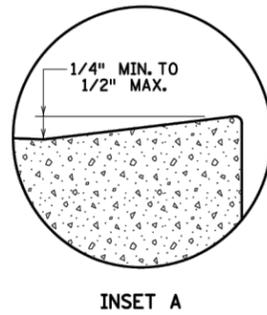
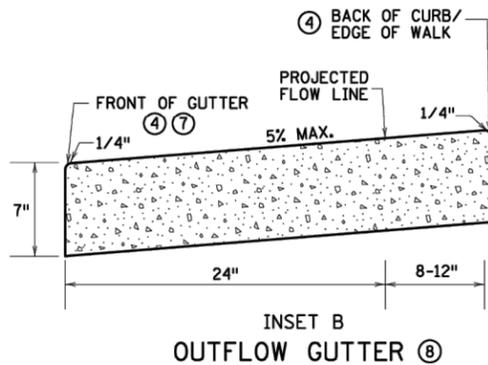


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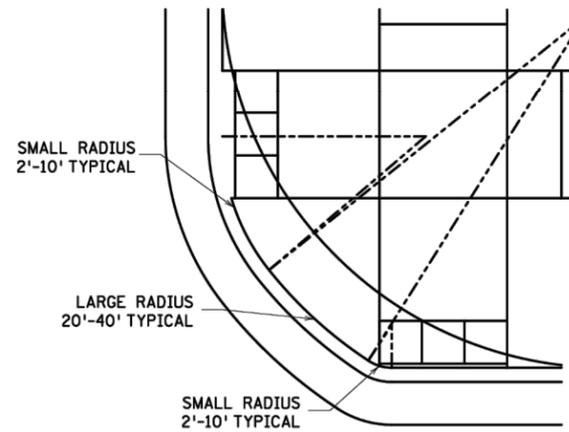
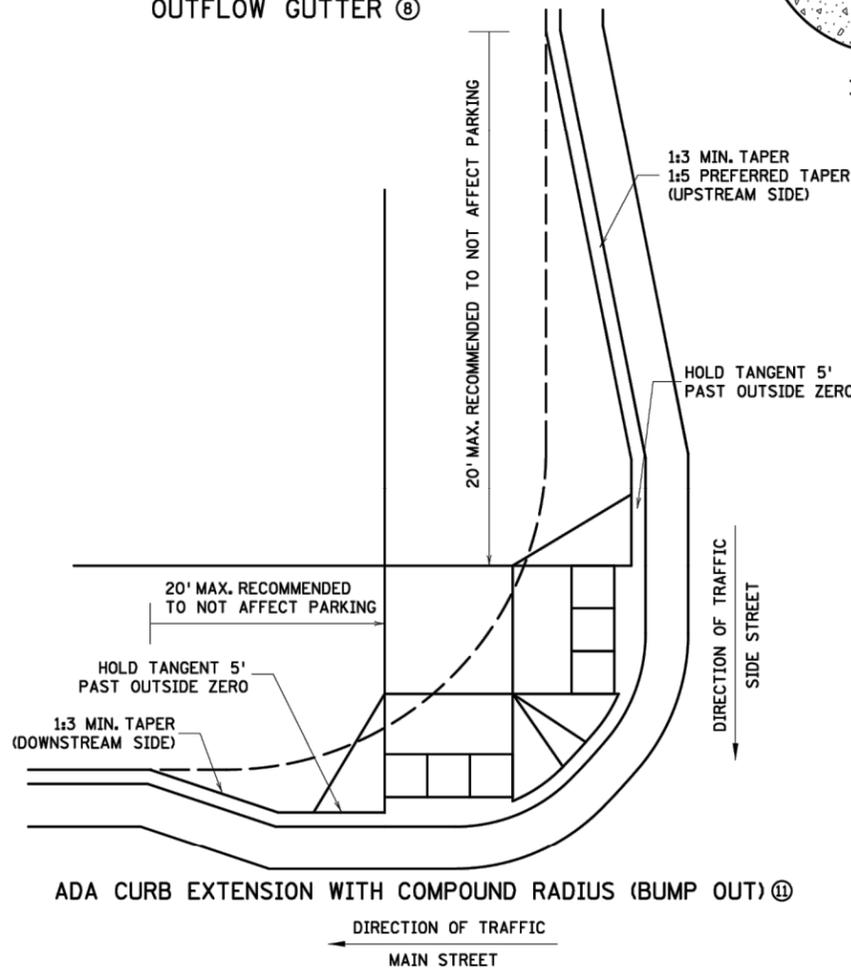


PEDESTRIAN ACCESS ROUTE CURB & GUTTER DETAIL



ONLY ALLOWED PER ENGINEER'S APPROVAL

PAVEMENT TREATMENT OPTIONS IN FRONT OF CURB & GUTTER FOR USE ON CURB RAMP RETROFITS



COMBINED DIRECTIONAL (COMPOUND RADIUS) 10

NOTES:

- POSITIVE FLOW LINE DRAINAGE SHALL BE MAINTAINED THROUGH THE PEDESTRIAN ACCESS ROUTE (PAR) AT A 2% MAXIMUM. NO PONDING SHALL BE PRESENT IN THE PAR.
- ANY VERTICAL LIP THAT OCCURS AT THE FLOW LINE SHALL NOT BE GREATER THAN 1/4 INCH.
- 1 FOR USE AT CURB CUTS WHERE THE PEDESTRIAN'S PATH OF TRAVEL IS ASSUMED PERPENDICULAR TO THE GUTTER FLOW LINE. RAMP TYPES INCLUDE: PERPENDICULAR, TIERED PERPENDICULAR, PARALLEL, AND DIAGONAL RAMP.
- 2 FOR USE AT CURB RAMP WHERE THE PEDESTRIAN'S PATH OF TRAVEL IS ASSUMED NON PERPENDICULAR TO THE GUTTER FLOW LINE. RAMP TYPES INCLUDE: FANS & DEPRESSED CORNERS.
- 3 BEGIN GUTTER SLOPE TRANSITION 10' OUTSIDE OF ALL CURB RAMP.
- 4 THERE SHALL BE NO VERTICAL DISCONTINUITIES GREATER THAN 1/4".
- 5 ELEVATION CHANGE TAKES PLACE FROM THE EXISTING TO NEW FRONT OF GUTTER. PATCH IS USED TO MATCH THE NEW GUTTER FACE INTO THE EXISTING ROADWAY.
- 6 VARIABLE WIDTH FOR DIRECTIONAL CURB APPLICATIONS. SEE SHEET 2 FOR DIRECTIONAL CURB SLOPE REQUIREMENTS.
- 7 TOP FRONT OF GUTTER SHALL BE CONSTRUCTED FLUSH WITH PROPOSED ADJACENT PAVEMENT ELEVATION. TOP 1.5" OF THE GUTTER FACE MUST BE A FORMED EDGE. PAR GUTTER SHALL NOT BE OVERLAID.
- 8 SHOULD BE USED AT VERTICALLY CONSTRAINED AREAS WHEN AT A DRAINAGE HIGH POINT OR SUPER ELEVATED ROADWAY SEGMENTS.
- 9 DRILL AND GROUT NO. 4 EPOXY-COATED 18" LONG TIE BARS AT 30" CENTER TO CENTER INTO EXISTING CONCRETE PAVEMENT 1' MINIMUM FROM ALL JOINTS.
- 10 HELPS PROVIDE TWO SEPARATE RAMPS, REDUCES THE DOME SETBACK LENGTH AND MINIMIZES DIRECTIONAL CURB. THIS RADIUS DESIGN CLOSELY FOLLOWS THE TURNING VEHICLE PATH WHILE OPTIMIZING CURB RAMP LENGTH.
- 11 CURB EXTENSIONS SHOULD BE USED IN VERTICALLY CONSTRAINED AREAS, USUALLY IN DOWNTOWN ROADWAY SEGMENTS WHERE ON-STREET PARKING IS AVAILABLE. CURB EXTENSIONS SHOULD BE CONSIDERED FOR APS INTERSECTIONS WHERE SPACE IS LIMITED. PUSH BUTTONS MUST MEET APS CRITERIA AS DESCRIBED IN THE PUSH BUTTON LOCATION DETAIL SHEET.

REVISIONS:
APPROVED: 11-04-2021
<i>Jeff J. Perkins</i>
JEFFREY PERKINS
OPERATIONS DIVISION

	STANDARD PLAN 5-297.250	3 OF 6
	APPROVED: 11-04-2021	
		REVISOR:
THOMAS STYRBICKI STATE DESIGN ENGINEER		STATE PROJ. NO.

PEDESTRIAN CURB RAMP DETAILS		
(TH)	SHEET NO.	OF SHEETS

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 LIC. NO. 45867 DATE XX/XX/XXXX



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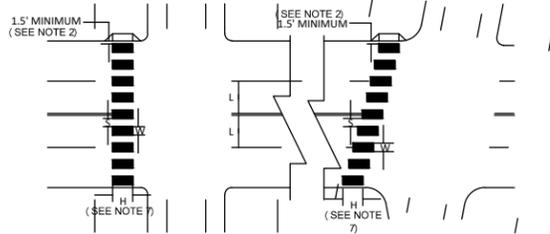


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NORTHFIELD, MINNESOTA
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 DETAILS
 MNDOT ADA DETAILS (SHEET 3 OF 6)

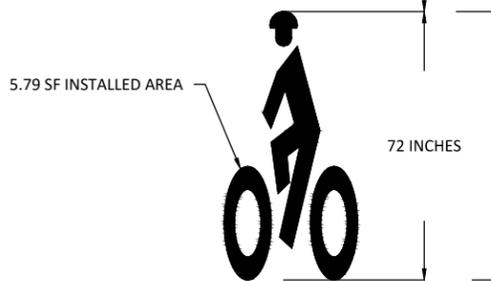
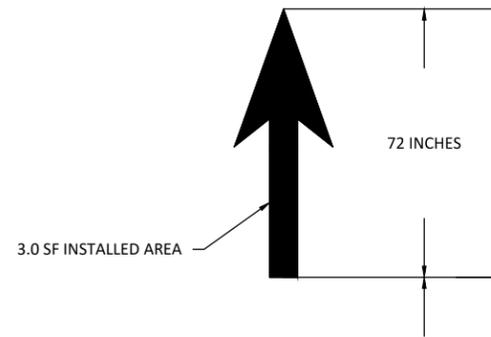
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(L) WIDTH OF INSIDE LANE	(W) WIDTH OF PAINTED AREA	(S) WIDTH OF SPACE	ALTERNATE (W) WIDTH OF PAINTED AREA	ALTERNATE (S) WIDTH OF SPACE
9'	2.0'	2.5'	—	—
10'	2.5'	2.5'	2.0'	3.0'
11'	2.5'	3.0'	2.0'	3.5'
12'	3.0'	3.0'	2.5'	3.5'
13'	3.0'	3.5'	—	—

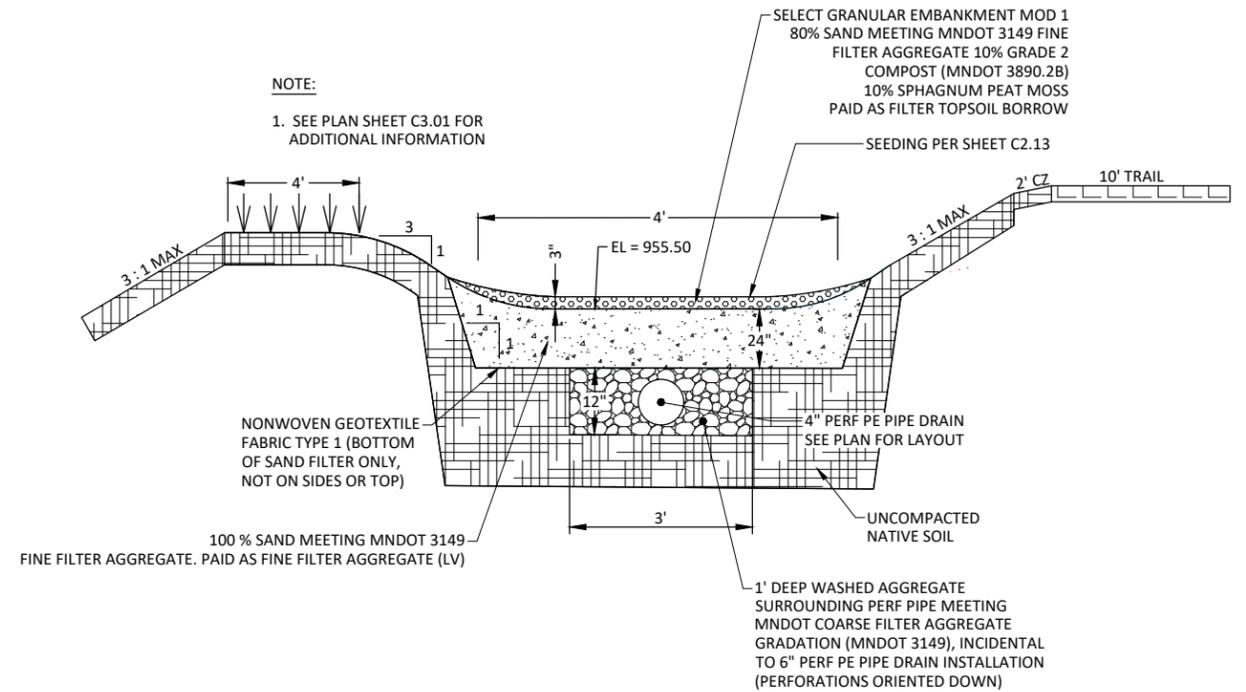


- NOTES:
1. PAINTED AREAS TO BE CENTERED ON CENTERLINE AND LANE LINES.
 2. A MINIMUM OF 1.5 FT. CLEAR DISTANCE SHALL BE LEFT ADJACENT TO THE CURB FACE. IF LAST PAINTED AREA FALLS INTO THIS DISTANCE IT MUST BE OMITTED.
 3. ON TWO LANE TWO WAY STREETS, USE SPACING SHOWN FOR AN 11 FT. INSIDE LANE.
 4. FOR DIVIDED ROADWAYS, ADJUSTMENTS IN SPACING OF THE BLOCKS SHOULD BE MADE IN THE MEDIAN SO THAT THE BLOCKS ARE MAINTAINED IN THEIR PROPER LOCATION ACROSS THE TRAVELED PORTION OF THE ROADWAY.
 5. AT SKEWED CROSSWALKS, THE BLOCKS ARE TO REMAIN PARALLEL TO THE LANE LINES AS SHOWN.
 6. THE BLOCKS SHALL BE PLACED SO THAT THEY ARE NOT LOCATED IN THE WHEEL PATH OF THE VEHICLES.
 7. THE BLOCKS SHALL BE A MINIMUM OF 6' LONG AND AT LEAST AS LONG AS THE TRUNCATED DOMES, FOR FANNED TRUNCATED DOMES THE BLOCKS SHALL BE AT LEAST AS LONG AS THE APPROACHING SIDEWALK OR SHARED USE PATH.
 8. THE ALTERNATE (W) AND (S) MAY BE USED WHEN BLOCKS LONGER THAN 6' (H) ARE USED.

PEDESTRIAN CROSSWALK MARKINGS
NOT TO SCALE



- NOTES:
- PLACE BICYCLE SYMBOL NO MORE THAN 50 FEET DOWNSTREAM OF INTERSECTIONS, AND AT INTERVALS NO GREATER THAN 250 FEET (URBAN). ORIENT BICYCLE SYMBOL IN THE DIRECTION OF BICYCLE TRAVEL
- SYMBOL AND ARROW PAVEMENT MARKINGS FOR BICYCLE LANES**
NOT TO SCALE



TYPICAL FILTRATION SWALE CROSS-SECTION
NOT TO SCALE

STANDARD PLATES		
THE FOLLOWING STANDARD PLATES, APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION, SHALL APPLY ON THIS PROJECT		
PLATE NUMBER	SUBJECT	REVISIONS
7113A	CONCRETE APPROACH NOSE DETAIL	5/28/2003
1070N	SUPPLEMENTAL PAVEMENT REINFORCEMENT	9/30/2022

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JASON A. MALECHA, P.E.
LIC. NO. 57151 DATE MM/DD/YYYY



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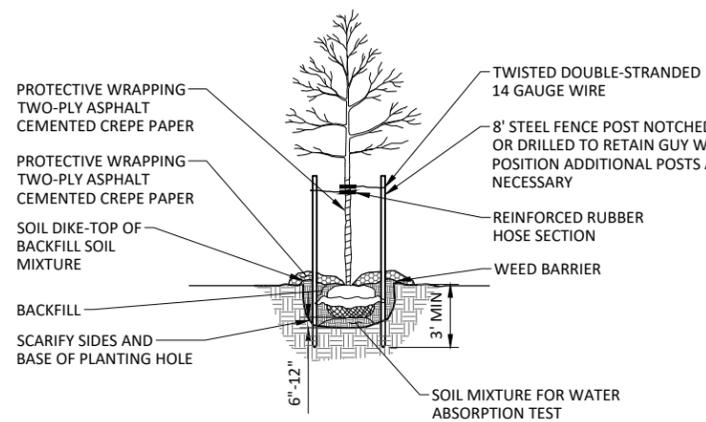


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NORTHFIELD, MINNESOTA
2026 JEFFERSON PKWY M&O AND MTST IMPROVEMENTS

DETAILS

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DECIDUOUS TREE PLANTING

NOT TO SCALE

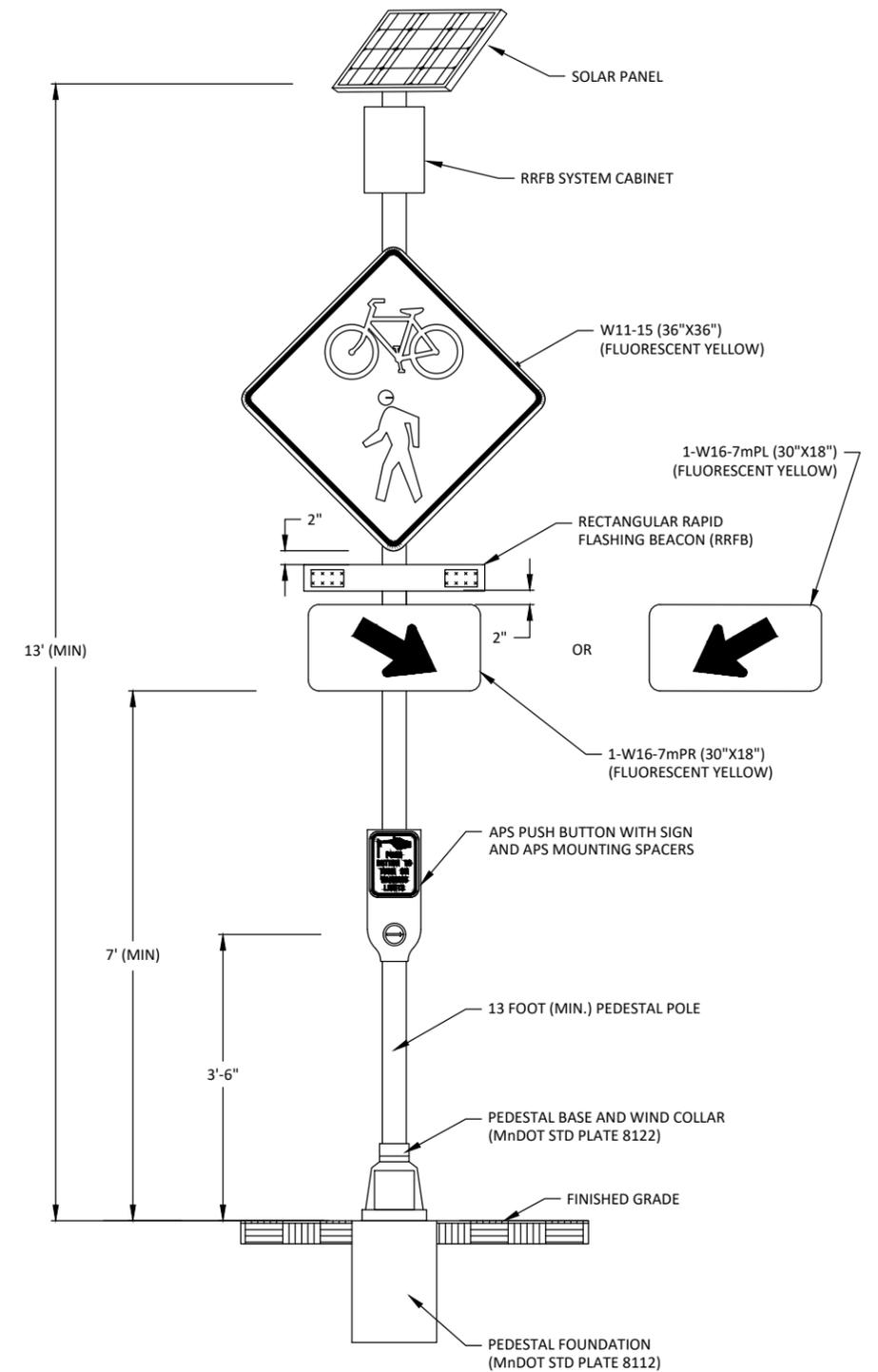
BAG & BALL PLANTING NOTE:

1. REMOVE WRAPPING AND ALL TIES OR STRAPS. IF ROOT BALL IS WRAPPED IN BURLAP THE LOWER 1/2 PORTION OF THE FABRIC MAY BE LEFT AT THE BOTTOM OF THE HOLE. SYNTHETIC WRAP MUST BE REMOVED AND PROPERLY DISPOSED.
2. LOOSEN ROOTS TO ENSURE THEY ARE NOT GIRDLING THE ROOT BALL.
3. SALVAGE AND REUSE ALL SOIL THAT CAME WITH THE ROOT BALL.
4. IF ROOT BALL IS EXTREMELY DRY WATER IT PRIOR TO PLACING IT IN THE HOLE.
5. IF TREE IS CONTAINER GROWN, SALVAGE ALL SOIL AND MIX WITH SUPPLEMENTED SOIL FOR BACK FILL.

BARE ROOT PLANTING NOTE:

- IF BARE ROOT MATERIAL IS SPECIFIED THESE ADDITIONAL REQUIREMENTS MUST BE MET:
1. ROOTS MUST BE SOAKED OVERNIGHT THE NIGHT BEFORE PLANTING.
 2. ROOTS MUST BE PROTECTED FROM DRYING OUT DURING THE INSTALLATION PROCESS.
 3. ALL DAMAGED, DISEASED OR DESIGNATED ROOTS AND ROOT ENDS MUST BE CLEANLY PRUNED. TREE SHALL NOT HAVE GIRDLING ROOTS.

1. PROVIDE AND INSTALL HEALTHY PLANT MATERIALS THAT MEET ALL SPECIFICATIONS AND ARE OF THE SIZE, TYPE AND SPECIES NAMED ON THE PLANT SCHEDULE AND SHOWN ON THE PLANS.
2. DIG PLANT HOLE 1'-0" MINIMUM LARGER ON ALL SIDES THAN ROOT BALL.
3. PRIOR TO PLACING TREE, SCARIFY BOTTOM AND SIDES OF THE PLANTING HOLE.
4. TEST SOIL ABSORPTION. FILL HOLE PARTIALLY WITH SUPPLEMENTED SOIL MIXTURE, ADD WATER AND ALLOW TO PUDDLE AND SETTLE PRIOR TO SETTING TREE.
5. AFTER PUDDLING HAS SETTLED, SET TREE AND BACK FILL WITH SUPPLEMENTED SOIL MIXTURE.
6. WATER THOROUGHLY AND ADD BACK FILL AS NEEDED AFTER MOISTURE IS ABSORBED.
7. BUILD SOIL DIKE AROUND PERIPHERY OF TREE TO HOLD WATER.
8. AFTER SETTLEMENT, MULCH WITH MINIMUM 4" LAYER SHREDDED BARK, WOOD CHIPS OR AS OTHERWISE SPECIFIED. DO NOT MULCH UP AGAINST THE TRUNK.
9. REMOVE DEAD OR DAMAGED BRANCHES. RETAIN THE NATURAL FORM OF THE TREE.



PEDESTRIAN CROSSWALK FLASHER SYSTEM DETAIL

NOTES:

1. LED DUAL 7" FLASHING ARRAYS ON BEACON TO FACE APPROACHING TRAFFIC IN BOTH DIRECTIONS. BEACONS SHALL INCLUDE SIDE FACING PEDESTRIAN INDICATION FACING ROADWAY.
2. SEE MNDOT STANDARD PLATE NO. 8122 "PEDESTAL AND PEDESTAL BASE" FOR PEDESTAL DETAILS.
3. SEE MNDOT STANDARD PLATE NO. 8112 "PEDESTAL FOUNDATION" FOR PEDESTAL FOUNDATION DETAILS.
4. FURNISH AND INSTALL PUSH BUTTON AND FHWA APPROVED REGULATORY SIGN FOR PEDESTRIAN FLASHER SYSTEM ABOVE PUSH BUTTON.

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I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

JASON A. MALECHA, P.E.
LIC. NO. 57151 DATE MM/DD/YYYY



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NORTHFIELD, MINNESOTA
2026 JEFFERSON PKWY M&O AND MTST IMPROVEMENTS

DETAILS

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STORMWATER POLLUTION PREVENTION PLAN (SWPPP)

2026 JEFFERSON PKWY M&O AND MTT
CITY OF NORTHFIELD, MN
RICE COUNTY



LEGEND

- 1-MILE BOUNDARY
- PROJECT BOUNDARY
- OR IMPAIRED, SPECIAL OR PROTECTED WATERS
- NATIONAL WETLANDS INVENTORY
- CALCAREOUS FEN
- RECEIVING WATERS

PROJECT AREAS:

Total Project Size (disturbed area) =	13.1	ACRES
Existing area of impervious surface =	10.8	ACRES
Post construction area of impervious surface =	11.6	ACRES
Total new impervious surface area created =	0.8	ACRES

Planned Construction Start Date:	04/01/2026
Estimated Construction Completion Date:	11/15/2026

PERMANENT STORMWATER MANAGEMENT SYSTEM:

Type of storm water management used if more than 1 acre of new impervious surface is created:

<input type="checkbox"/>	Wet Sedimentation Basin
<input checked="" type="checkbox"/>	Infiltration/Filtration
<input type="checkbox"/>	Regional Pond
<input type="checkbox"/>	Permanent Stormwater Management Not Required

PROJECT LOCATION:

COUNTY	TOWNSHIP	RANGE	SECTION	LATITUDE	LONGITUDE
RICE	T111N	R20W	12, 1	44.4417°	-93.1683°

BMP SUMMARY	QUANTITY	UNIT
STORM DRAIN INLET PROTECTION	132	EACH
SILT FENCE TYPE MACHINE SLICED	9390	LIN FT
SEDIMENT CONTROL LOG TYPE WOOD FIBER	215	LIN FT
RIPRAP	58	CU YD
SODDING TYPE LAWN	910	SQ YD
ROLLED EROSION PREVENTION CATEGORY 20 AND SEED MIXTURE SOUTHERN BOULEVARD	11600	SQ YD
ROLLED EROSION PREVENTION CATEGORY 20 AND SEED MIXTURE WET DITCH	230	SQ YD
ROLLED EROSION PREVENTION CATEGORY 20 AND SEED SOUTHERN SHORTGRASS ROADSIDE	6250	SQ YD
RAPID STABILIZATION METHOD 3	17	MGAL

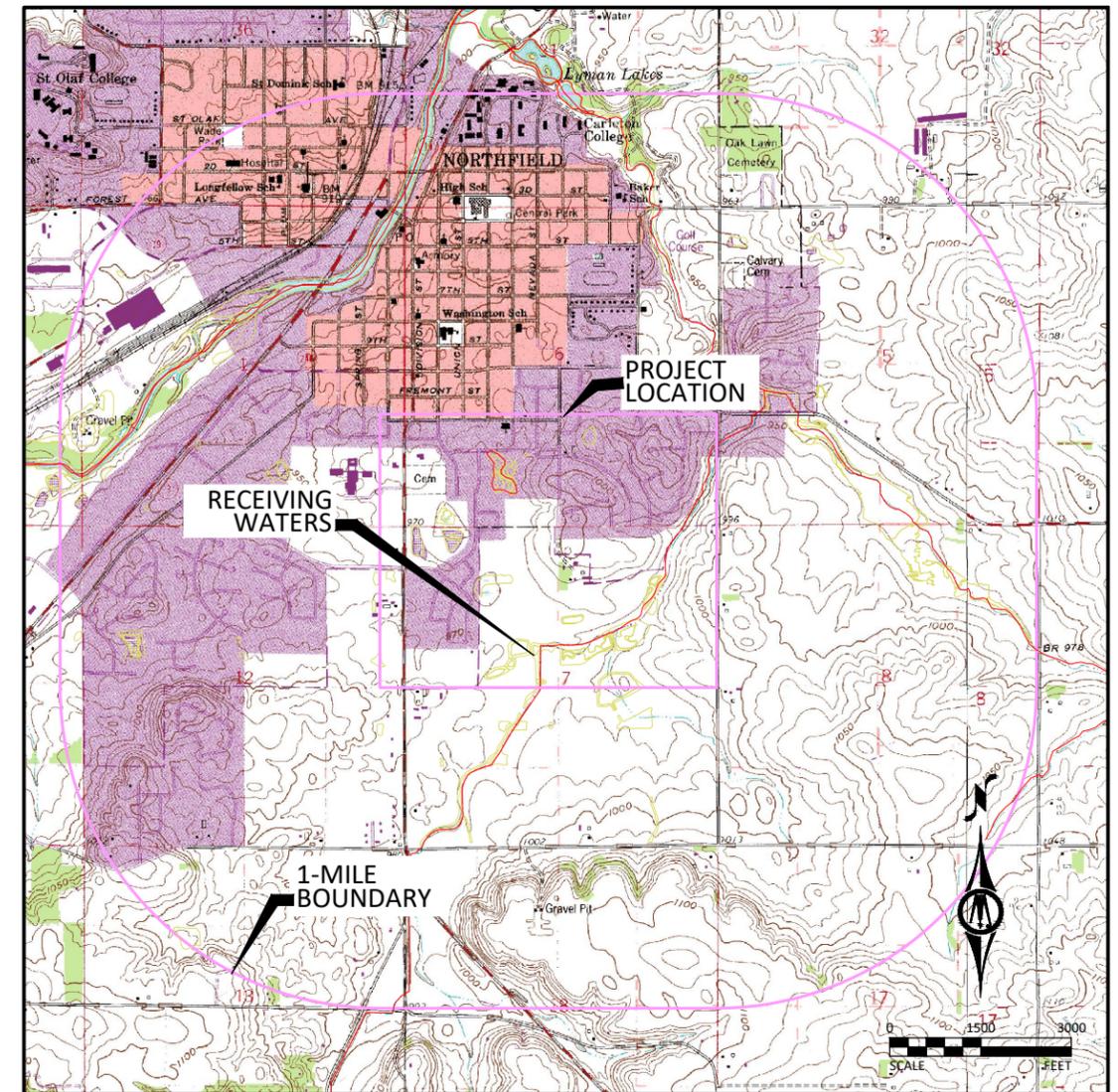
DESCRIPTION OF CONSTRUCTION ACTIVITIES AND STORMWATER MANAGEMENT:

Construction activities include: Bituminous mill and overlay, bituminous trail, concrete curb and gutter, concrete walk, ADA improvements, storm sewer, and permanent stabilization.

Stormwater currently drains to a series of existing storm water infiltration basins located along the Jefferson Parkway corridor.

After construction is complete stormwater will maintain existing drainage patterns.

This project includes the following stormwater management BMPs. A filtration swale basin will be constructed to fulfill the water quality volume requirements with the extension of the Mill Towns State Trail further north.



RECEIVING WATERS:

Receiving waters, including surface water, wetlands, Public Waters, and stormwater ponds, within 1-mile of the project boundary are identified on the USGS 7.5 min quad map above. Receiving waters that are impaired, the impairment, and WLA are listed as follows. All specific BMPs relative to construction activities listed in the permit for special, prohibited, restricted, or impaired have been incorporated into this plan. All specific BMPs listed in approved TMDLs and those BMPs listed for construction related waste load allocations have also been incorporated.

NAME OF WATER BODY	TYPE (ditch, pond, wetland, lake, etc.)	Special, Prohibited, Restricted Water ¹	Flows to Impaired Water Within 1-Mile ²	USEPA Approved Construction Related TMDL ³
Sibley Marsh	Marsh	Yes	Yes	Yes
Spring Creek	Creek	Yes	Yes	Yes
Cannon River	River	Yes	Yes	Yes

¹ Special, prohibited, and restricted waters are listed in Section 23 of the MN Construction Stormwater General Permit (MNR100001).

² Identified as impaired under section 303 (d) of the federal Clean Water Act for phosphorus, turbidity, TSS, dissolved oxygen, and/or aquatic biota.

³ Construction Related TMDLs include those related to: phosphorus, turbidity, TSS, dissolved oxygen, and/or aquatic biota.

IMPLEMENTATION SCHEDULE AND PHASING: The Contractor is required to provide an updated schedule and site management plan meeting the minimum requirements of Section 1717 of the Minnesota Standard Specifications for Construction.

- 1) Submit SWPPP Updates to Engineer. Submittal shall include any requested changes to the SWPPP, including but not limited to: Trained Personnel, Locations for Stockpiles, Concrete Washout, Sanitation Facilities, Types and Locations of Erosion & Sediment Control. Failure to submit updates shall be considered acceptance of the SWPPP as designed with no changes.
- 2) Install perimeter sediment control, inlet protection, and construction exit.
- 3) Perform removals
- 4) Grading and utility installation
- 5) Construct permanent management system
- 6) Add additional temporary BMPs as necessary during construction based on inspection reports.
- 7) Ensure final stabilization measures are complete.
- 8) Provide digital copy of all Field SWPPP Documentation including Inspection Reports and SWPPP Revisions to the Owner.
- 9) Submit Notice of Termination (NOT) to MPCA. NOTE: The NOT must be submitted to MPCA before Final Stabilization is considered complete.

RESPONSIBLE PARTIES:

The Contractor and Owner will be joint applicants under the MPCA's General Stormwater Permit for Construction Activity as required by the National Pollutant Discharge Elimination System (NPDES) Phase II program.

The Contractor shall provide one or more trained Construction SWPPP Manager(s) knowledgeable and experienced in the application of erosion prevention and sediment control BMPs that will oversee the implementation of the SWPPP, and the installation, inspection and maintenance of the erosion prevention and sediment control BMPs.

A Construction SWPPP Manager must be available for an on-site inspection within 72 hours upon request by the MPCA.

	COMPANY	CONTACT PERSON	PHONE
OWNER:	City of Northfield	Sean Simonson	507-645-3049
SWPPP DESIGNER:	Bolton & Menk, Inc.	Lani Leichy	612-804-7230
CONTRACTOR:	TBD	TBD	TBD
CONSTRUCTION SWPPP MANAGER:	TBD	TBD	TBD
PARTY RESPONSIBLE FOR LONG TERM O&M:	City of Northfield	Sean Simonson	507-645-3049

The SWPPP Designer, Construction SWPPP Manager, and BMP Installer must have appropriate training. Documentation showing training commensurate with the job duties and responsibilities is required to be included in the SWPPP prior to any work beginning on the site. Training documentation for the SWPPP Designer is included on the Narrative sheet. The Contractor shall attach training documentation to this SWPPP for the Construction SWPPP Manager and BMP Installer prior to the start of construction. This information shall be kept up to date until the project NOT is filed.

ADDITIONAL COMPENSATION

Payment for all work associated with Erosion and Sediment Control shall be as described in the Project Manual. Unless otherwise authorized by the Owner no additional payment shall be made for any work required to administer and maintain the site erosion and sediment control in compliance with the Minnesota Pollution Control Agency (MPCA) - General Stormwater Permit for Construction Activity (MN R100001) including but not limited to inspection, maintenance, and removal of BMPs or addition of BMPs to accommodate Contractor phasing.

DOCUMENT RETENTION

Permittees must make the SWPPP, including all inspection reports, maintenance records, training records and other information required by this permit, available to federal, state, and local officials within three (3) days upon request for the duration of the permit and for three (3) years following the NOT.

GENERAL STORMWATER DISCHARGE REQUIREMENTS

All requirements listed in Section 5.1 of the Permit for the design of the permanent stormwater management system and discharge have been included in the preparation of this SWPPP. These include but are not limited to:

1. The expected amount, frequency, intensity, and duration of precipitation.
2. The nature of stormwater runoff and run-on at the site
3. Peak flow rates and stormwater volumes to minimize erosion at outlets and downstream channel and stream bank erosion.
4. The range of soil particle sizes expected to be present on the site.

Permanent stormwater treatment systems for this project have been designed in accordance with the guidance in the MN Stormwater Manual in place at the time of bidding. Copies of the design information and calculations are part of this SWPPP and will be provided in digital format upon written request to the Engineer.

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JASON A. MALECHA, P.E.
LIC. NO. 57151 DATE MM/DD/YYYY



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NORTHFIELD, MINNESOTA
2026 JEFFERSON PKWY M&O AND MTT IMPROVEMENTS
STORMWATER POLLUTION PREVENTION PLAN
PLAN

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Information contained in this SWPPP narrative sheet summarizes requirements of the GENERAL PERMIT AUTHORIZATION TO DISCHARGE STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITY UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM/STATE DISPOSAL SYSTEM PROGRAM - Permit No: MN R100001 (Permit) as they apply to this project. All provisions of the Permit including those not specifically cited herein shall apply to this project. The Contractor is responsible to be familiar with and comply with all conditions of the permit. The full text of the Permit is available at: <https://www.pca.state.mn.us/sites/default/files/wq-strm2-80a.pdf>

SWPPP AMENDMENTS AND SUBMITTALS

Contractor must prepare and submit to the Engineer a SWPPP amendment as necessary to include additional Best Management Practices (BMPs) to correct problems identified or address the following situations.

1. Contact information and training documentation for Construction SWPPP Manager and BMP Installer,
2. There is a change in construction method of phasing, operation, maintenance, weather or seasonal conditions not anticipated during the design of the SWPPP including but not limited to:
 - a. Types and/or Locations of BMPs
 - b. Material Storage and Spill Response
 - c. Fueling Plans
 - d. Locations for Stockpiles, Concrete Washout, and Sanitation Facilities and
 - e. Project Phasing
3. It is determined that the SWPPP is not achieving objectives of minimizing pollutants in stormwater discharges associated with construction activity, or
4. The SWPPP is not consistent with the terms and conditions of the permit.

The Contractor may implement SWPPP amendments immediately and is not required to wait for Engineer review of the submittal. The responsibility for completeness of SWPPP amendments and compliance with the Permit lies with the Contractor. Review, comment, or lack of comment by the Engineer on a SWPPP amendment shall not absolve the responsibilities of the Contractor in any way.

If a change order is issued for a design change the SWPPP amendment will be prepared by the Engineer and included in the change order.

In addition to SWPPP amendments, the Contractor shall submit to the Engineer Weekly Erosion and Sediment Control Schedule meeting the requirements of MnDOT 1717.

The Contractor shall keep copies of all SWPPP amendments, Weekly Erosion and Sediment Control Schedules, inspection logs, and maintenance logs with the field copy of the SWPPP. A PDF copy of these documents will be provided along with a copy of the final Field Copy of the SWPPP to the Engineer along with the signed Notice of Termination when final stabilization is complete.

EROSION PREVENTION PRACTICES

Stormwater conveyance channels shall be routed around unstabilized areas. Erosion controls and velocity dissipation devices shall be used at outlets within and along the length of any constructed conveyance channel.

The normal wetted perimeter of all ditches or swales, including storm water management pond slopes, that drain waters from the site must be stabilized within 200' of any property edge or discharge point, including storm sewer inlets, within 24 hours of connection.

Temporary or permanent ditches or swales used as sediment containment during construction do not need to be stabilized during temporary period of use and shall be stabilized within 24 hours after no longer used as sediment containment.

Mulch, hydromulch, tackifier, or similar practice shall not be used in any portion of the wetted perimeter of a temporary or permanent drainage ditch or swale section with a continuous slope of greater than 2 percent.

Energy dissipation shall be installed at all temporary or permanent pipe outlets within 24 hours of connection to a surface water or permanent stormwater treatment system.

The Contractor shall phase construction and use construction methods to the extent practical to minimize exposed soils. The project phasing shall be documented in the Weekly Erosion and Sediment Control Schedule.

SEDIMENT CONTROL PRACTICES

Down gradient BMPs including perimeter BMPs must be in place before up gradient land- disturbing activities begin and shall remain in place until final stabilization.

All BMPs that have been adjusted or removed to accommodate short-term activities shall be re-installed or replaced the earlier of the end of the work day or before the next precipitation event even if the activity is not complete.

Inlet BMPs may be removed for specific safety concerns. The BMPs shall be replaced as soon as the safety concern is resolved. The removal shall be documented in the SWPPP as a SWPPP amendment.

Temporary stockpiles must have sediment control BMPs. The Contractor shall prepare and submit to the Engineer a SWPPP amendment showing the location of temporary stockpiles and the BMPs for each stockpile. The SWPPP amendment must meet the minimum requirements of Section 9 of the Permit.

Stockpiles are located outside of natural buffers or surface waters, including stormwater conveyances unless there is a bypass.

The contractor will ensure vehicle tracking be minimized with BMPs and shall conduct street sweeping to remove tracked sediment.

Soil compaction shall be minimized and topsoil shall be preserved, unless infeasible or if construction activities dictate soil compaction or topsoil stripping.

Contractor shall direct any discharges from BMPs to vegetated areas.

The use of polymers, flocculants, or other sedimentation treatment chemicals are not proposed as part of this SWPPP as designed by the Engineer. If methods or phasing of construction require the use of any of these chemicals, the Contractor shall prepare and submit to the Engineer a SWPPP amendment that meets the minimum requirements of Section 9 of the Permit.

TEMPORARY SEDIMENTATION BASINS

A temporary sedimentation basin has not been included in this SWPPP as designed by the Engineer. If a basin is later determined to be desirable or necessary the Contractor shall prepare and submit to the Engineer a SWPPP amendment. Temporary

sedimentation basins shall meet or exceed the minimum requirements of Section 14 of the Permit and shall include a basin draining plan meeting or exceeding the minimum requirements of Section 10 of the Permit. Where the site discharges to Special and/or Impaired Waters the SWPPP amendment shall also meet or exceed the minimum requirements of Section 23 of the permit.

DEWATERING

A dewatering plan has not been included in this SWPPP as designed by the Engineer. If dewatering is required for this project, the Contractor shall prepare and submit to the Engineer a SWPPP amendment. All dewatering shall meet or exceed the minimum requirements of Section 10 of the Permit.

POLLUTION PREVENTION

Products and materials that have the potential to leach pollutants that are stored on the site must be stored in a manner designed to minimize contact with stormwater. Materials that are not a source of potential contamination to stormwater or that are designed for exposure to stormwater are not required to be covered.

Hazardous materials including but not limited to pesticides, fertilizer, petroleum products, curing compounds and toxic waste must be properly stored and protected from stormwater exposure as recommended by the manufacturer in an access restricted area.

Solid waste must be stored, collected and disposed of in compliance with Minnesota Administrative Rules Chapter 7035.

Portable toilets must be positioned so that they are secure and will not be tipped or knocked over. Sanitary waste must be disposed of properly in accordance with Minn. R. CH 7041.

Exterior vehicle or equipment washing on the project site shall be limited to a defined area of the site. No engine degreasing is allowed on site. A sign must be installed adjacent to each washout facility that requires site personnel to utilize the proper facilities for disposal of concrete and other washout wastes.

Perform all vehicle and equipment fueling, maintenance, and lubrication at least 100 feet from wetlands, waterways, storm drains, and infiltration areas unless otherwise shown in the plans.

The Contractor shall prepare and submit a SWPPP amendment detailing the location and BMPs proposed for storage of materials, solid waste, portable toilets, and exterior vehicle or equipment washing on the site. The SWPPP amendment shall include a spill prevention and response plan that is appropriate for the materials proposed to be on the site. The SWPPP amendment shall meet or exceed the minimum requirements of Section 12 of the Permit.

INSPECTION & MAINTENANCE

A trained person shall routinely inspect the entire construction site at the time interval indicated on this sheet of the SWPPP during active construction and within 24-hours after a rainfall event greater than 0.5 inches in 24 hours. Following an inspection that occurs within 24-hours after a rainfall event, the next inspection must be conducted at the time interval indicated in the Receiving Waters Table found on the SITE PLAN AND INFORMATION SHEET of the SWPPP.

All inspections and maintenance conducted during construction must be recorded on the day it is completed and must be retained with the SWPPP. Inspection report forms are available in the Project Specifications. Inspection report forms other than those provided shall be approved by the engineer.

The Contractor may request a change in inspection schedule for the following conditions:

- a. Inspections of areas with permanent cover to be reduced to once per month,
- b. Inspections of areas that have permanent cover and have had no construction activity for 12 months to be suspended until construction resumes,
- c. Inspections of areas where construction is suspended due to frozen ground conditions, inspections to be suspended until the earlier of within 24 hours of runoff occurring, or upon resuming construction.

No change in inspection schedule shall occur until authorized by the Engineer.

Inspections must include:

1. All erosion prevention and sediment control BMPs and Pollution Prevention Management Measures to ensure integrity and effectiveness.
2. Surface waters, including drainage ditches and conveyance systems for evidence of erosion and sediment deposition.
3. Construction site vehicle exit locations, streets and curb and gutter systems within and adjacent to the project for sedimentation from erosion or tracked sediment from vehicles.
4. Infiltration areas to ensure that no sediment from ongoing construction activity is reaching the infiltration area and that equipment is not being driven across the infiltration area.

All non-functioning BMPs and those BMPs where sediment reaches one-half (1/2) of the depth of the BMP, or in the case of sediment basins one-half (1/2) of the storage volume, must be repaired, replaced, or supplemented by the end of the next business day after discovery, or as soon as field conditions allow.

Permittees must repair, replace or supplement all nonfunctional BMPs with functional BMPs by the end of the next business day after discovery, or as soon as field conditions allow.

Any sediment that escapes the site must be removed and the area stabilized within 7 calendar days of discovery unless precluded by legal, regulatory, or physical access in which case the work shall be completed within 7 calendar days of authorization. Paved surfaces such as streets shall have any escaped or tracked sediment removed by the end of the day that it is discovered. Sediment release, other than paved surfaces that can be cleaned up with street sweeping shall be reported immediately upon discovery to the Engineer.

PUBLIC WATER RESTRICTIONS:

For public waters that have been promulgated "work in water restrictions" during fish spawning time frames, all exposed soil areas that are within 200 feet of the water's edge, and drain to these waters must complete stabilization within 24-hours during the time period. MN DNR permits are not valid for work in waters that are designated as infested waters unless accompanied by an Infested Waters Permit or written notification has been obtained from MN DNR stating that such permit is not required. There is no exception for pre-existing permits. If a MN DNR Permit has been issued for the project and the water is later designated as infested, the Contractor shall halt all work covered by the MN DNR Permit until an Infested Waters Permit is obtained or that written notification is obtained stating that such permit is not required.

FINAL STABILIZATION

Final Stabilization is not complete until all the following requirements have been met:

1. Substantial Completion has been reached and no ground disturbing activities are anticipated.
2. Permanent cover has been installed with an established minimum uniform perennial vegetation density of 70 percent of its expected final growth. Vegetation is not required in areas where no vegetation is proposed by this project such as impervious surfaces or the base of a sand filter.
3. Accumulated sediment has been removed from all permanent stormwater treatment systems as necessary to ensure the system is operating as designed.
4. All sediment has been removed from conveyance systems
5. All temporary synthetic erosion prevention and sediment control BMPs have been removed. BMPs designated on the SWPPP to remain to decompose on-site may remain.
6. For residential construction only, permit coverage terminates on individual lots if the structures are finished and temporary erosion prevention and downgradient perimeter control is complete, the residence sells to the homeowner, and the permittee distributes the MPCA's "Homeowner Fact Sheet" to the homeowner.
7. For agricultural land only (e.g., pipelines across cropland), the disturbed land must be returned to its preconstruction agricultural use prior to submitting the NOT.

SITE STABILIZATION COMPLETION:

Stabilization of exposed soils shall begin immediately and shall be completed after the construction activity has temporarily or permanently ceased no later than:	7 calendar days
--------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------

SITE INSPECTION INTERVAL:

A trained person shall routinely inspect the entire construction site during active construction at an interval of no more than:	3 calendar days
----------------------------------------------------------------------------------------------------------------------------------	-----------------

SPECIAL ENVIRONMENTAL CONSIDERATIONS AND PERMITS:

1) Was an environmental review required for this project or any part of a common plan of development or sale that includes all or any portion of this project?	NO
2) Does any portion of the site have the potential to affect threatened or endangered species or their critical habitat?	NO
3) Does any portion of this site discharge to a Calcareous fen.	NO
4) Will any portion of the site potentially affect properties listed on the National Register of Historic Places or a known or discovered archeological site?	NO
5) Have any Karst features have been identified in the project vicinity?	NO
6) Is compliance with temporary or permanent stormwater management design requirements infeasible for this project?	NO
7) Has the MN DNR promulgated "work in water restrictions" for any Public Water this site discharges to during fish spawning?	NO

TYPE OF PERMIT	PERMITTING AGENCY	PERMIT STATUS AND CONDITIONS
Construction Stormwater NPDES	MPCA	Pending Approval

SWPPP DESIGNER TRAINING DOCUMENTATION:

SWPPP DESIGNER TRAINING DOCUMENTATION:

I certify that I have completed the Design of Construction SWPPP course. The certification expires 2026.

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

Jason A. Malecha
 SIGNER'S NAME
 LIC. NO. 20846 DATE 06/19/2023

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JASON A. MALECHA, P.E.
 LIC. NO. 57151 DATE MM/DD/YYYY



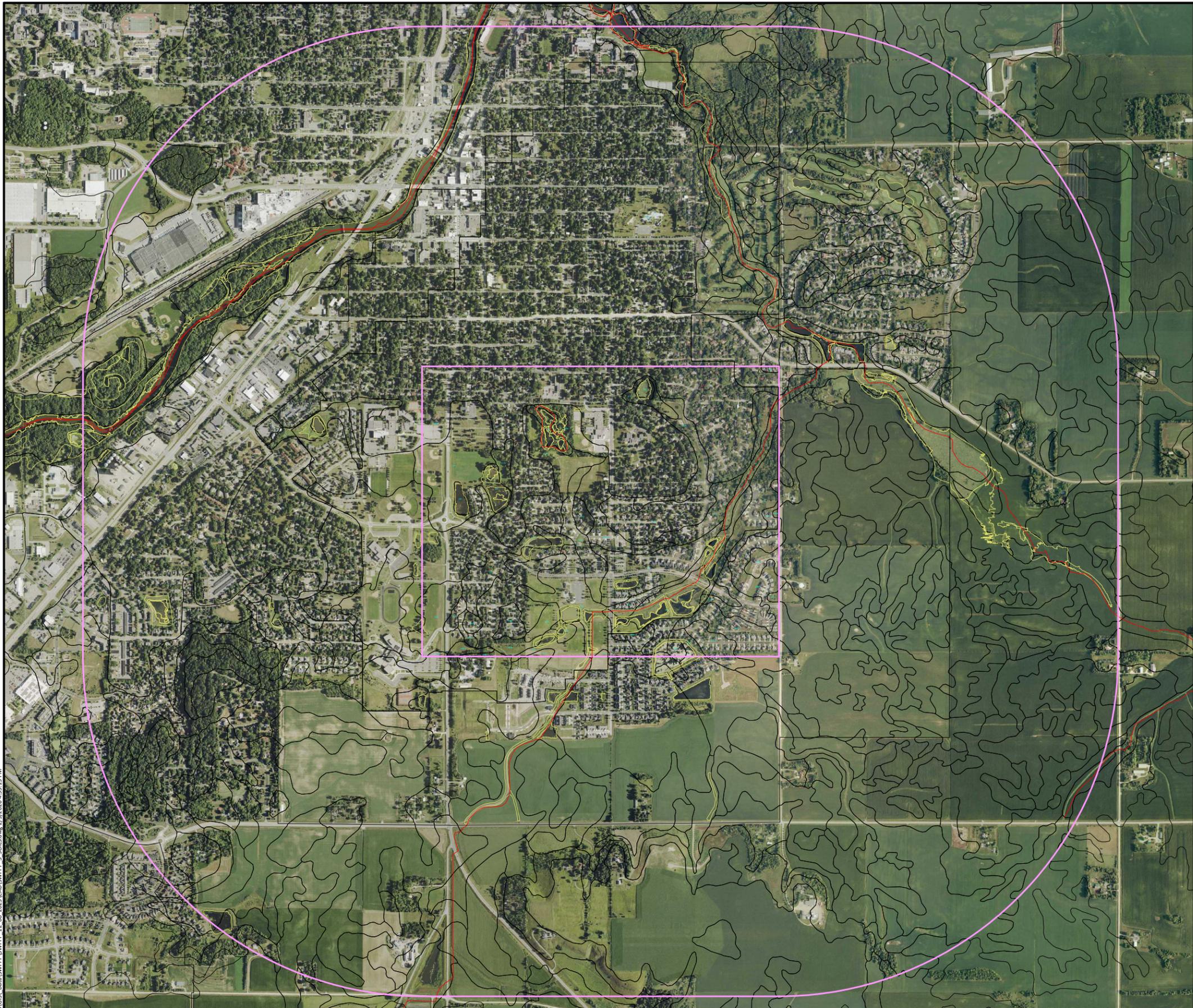
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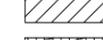
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NORTHFIELD, MINNESOTA
 2026 JEFFERSON PKWY M&O AND MTST IMPROVEMENTS
 STORMWATER POLLUTION PREVENTION PLAN
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LEGEND

-  PROJECT BOUNDARY
-  SOIL TYPE
-  IMPAIRED, SPECIAL OR PROTECTED WATERS
-  NATIONAL WETLANDS INVENTORY
-  DWSMA, LOW VULNERABILITY
-  STEEP SLOPES (>33.3%)
-  RECEIVING WATERS



SOIL TYPE SUMMARY

Map Unit Symbol	Soil Name	Hyd. Soil Group	Erodibility
MUSYM	MUNAME	HYDGRP	MUHELCL
104C2	Hayden Loam, 6 to 10 percent slopes, moderately eroded	C	PHEL
1116F	Brodale-Eyota complex, 12 to 35 percent slopes	B	HEL
1366	Talcot silty clay loam, 0 to 1 percent slopes	B/D	NHEL
1413B	Littleton silt loam, till substratum, 1 to 4 percent slopes	B/D	NHEL
1501	Klossner muck, 0 to 1 percent slopes	C/D	NHEL
1831	Colo silt loam, channeled, 0 to 2 percent slopes, frequently flooded	C/D	NHEL
208	Kato silty clay loam, 0 to 1 percent slopes	B/D	NHEL
301B	Lindstrom silt loam, till plain, 2 to 6 percent slopes	B	NHEL
382B	Blooming silt loam, 2 to 6 percent slopes	B	NHEL
382C2	Blooming silt loam, 6 to 12 percent slopes, eroded	B	PHEL
411A	Waukegan silt loam, 2 to 6 percent slopes	B	NHEL
411B	Waukegan silt loam, 0 to 2 percent slopes	B	NHEL
414	Hamel loam, 0 to 2 percent slopes	C/D	NHEL
41A	Estherville sandy loam, 0 to 2 percent slopes	A	NHEL
41B	Estherville sandy loam, 2 to 6 percent slopes	A	NHEL
611D	Hawick gravelly sandy loam, 12 to 20 percent slopes	A	HEL
764	Klossner muck, 0 to 1 percent slopes, flooded	A/D	NHEL
81	Boone loamy fine sand, 6 to 18 percent slopes	A	HEL
81	Boone loamy fine sand, 18 to 25 percent slopes	A	HEL
849B	Urban land-Estherville complex, 1 to 6 percent slopes	A	NHEL
875B	Hawick-Estherville complex, 2 to 6 percent slopes	A	NHEL
875C	Hawick-Estherville complex, 6 to 12 percent slopes	A	PHEL
98	Colo silty clay loam, 0 to 2 percent slopes, occasionally flooded	C/D	NHEL

NHEL - Not Highly Erodible Land
 PHEL - Potentially Highly Erodible Land
 HEL - Highly Erodible Land

LOCATION OF SWPPP REQUIREMENTS IN PROJECT PLAN

DESCRIPTION	SHEET NO.
SITE MAP	C2.01
FINAL STABILIZATION	C2.04 - C2.13
SOILS	C2.03
EROSION & SEDIMENT CONTROL DETAILS	C1.06 - C1.07
EROSION CONTROL TABULATION	C2.01
NARRATIVE & NOTES	C2.01 - C2.02

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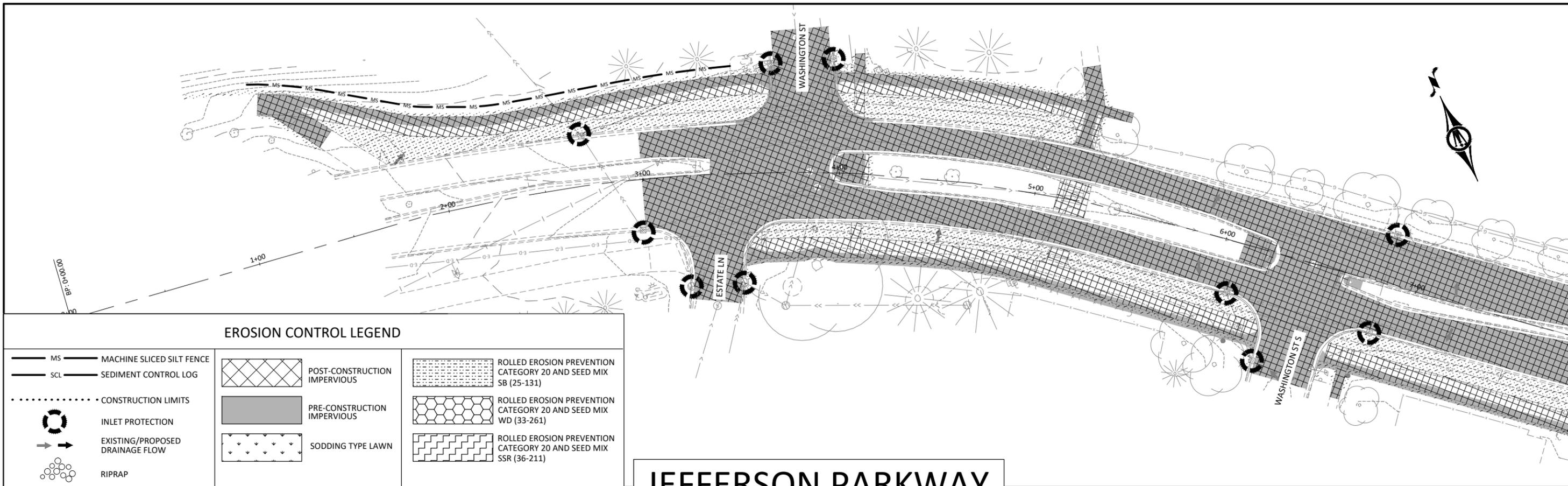
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 SOILS

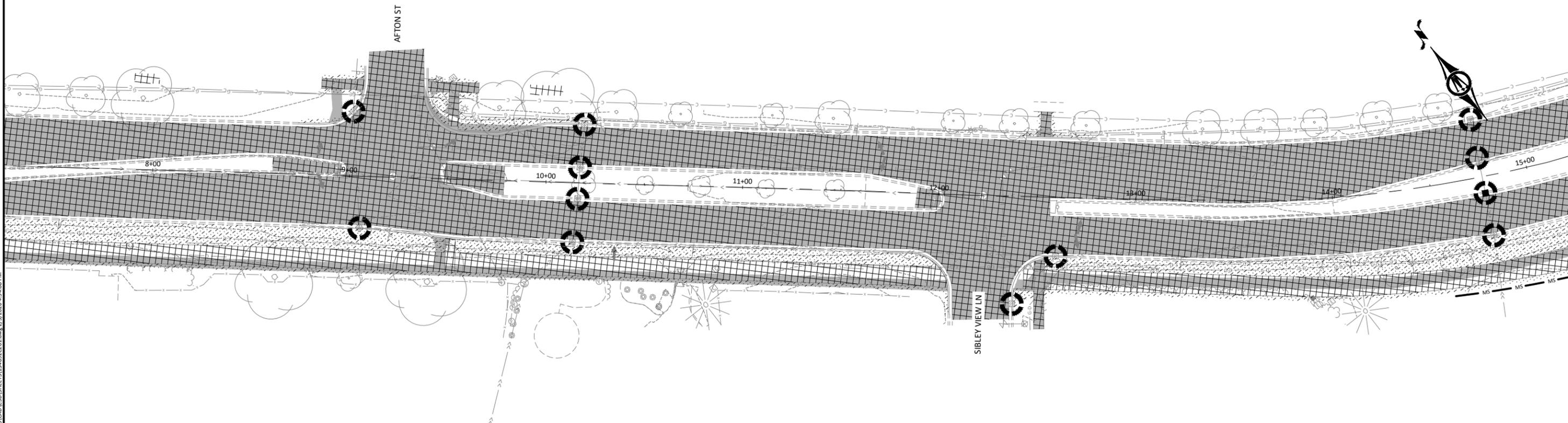
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EROSION CONTROL LEGEND

MS	MACHINE SLICED SILT FENCE		POST-CONSTRUCTION IMPERVIOUS		ROLLED EROSION PREVENTION CATEGORY 20 AND SEED MIX SB (25-131)
SCL	SEDIMENT CONTROL LOG		PRE-CONSTRUCTION IMPERVIOUS		ROLLED EROSION PREVENTION CATEGORY 20 AND SEED MIX WD (33-261)
.....	CONSTRUCTION LIMITS		SODDING TYPE LAWN		ROLLED EROSION PREVENTION CATEGORY 20 AND SEED MIX SSR (36-211)
	INLET PROTECTION				
	EXISTING/PROPOSED DRAINAGE FLOW				
	RIPRAP				

JEFFERSON PARKWAY



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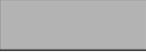
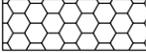
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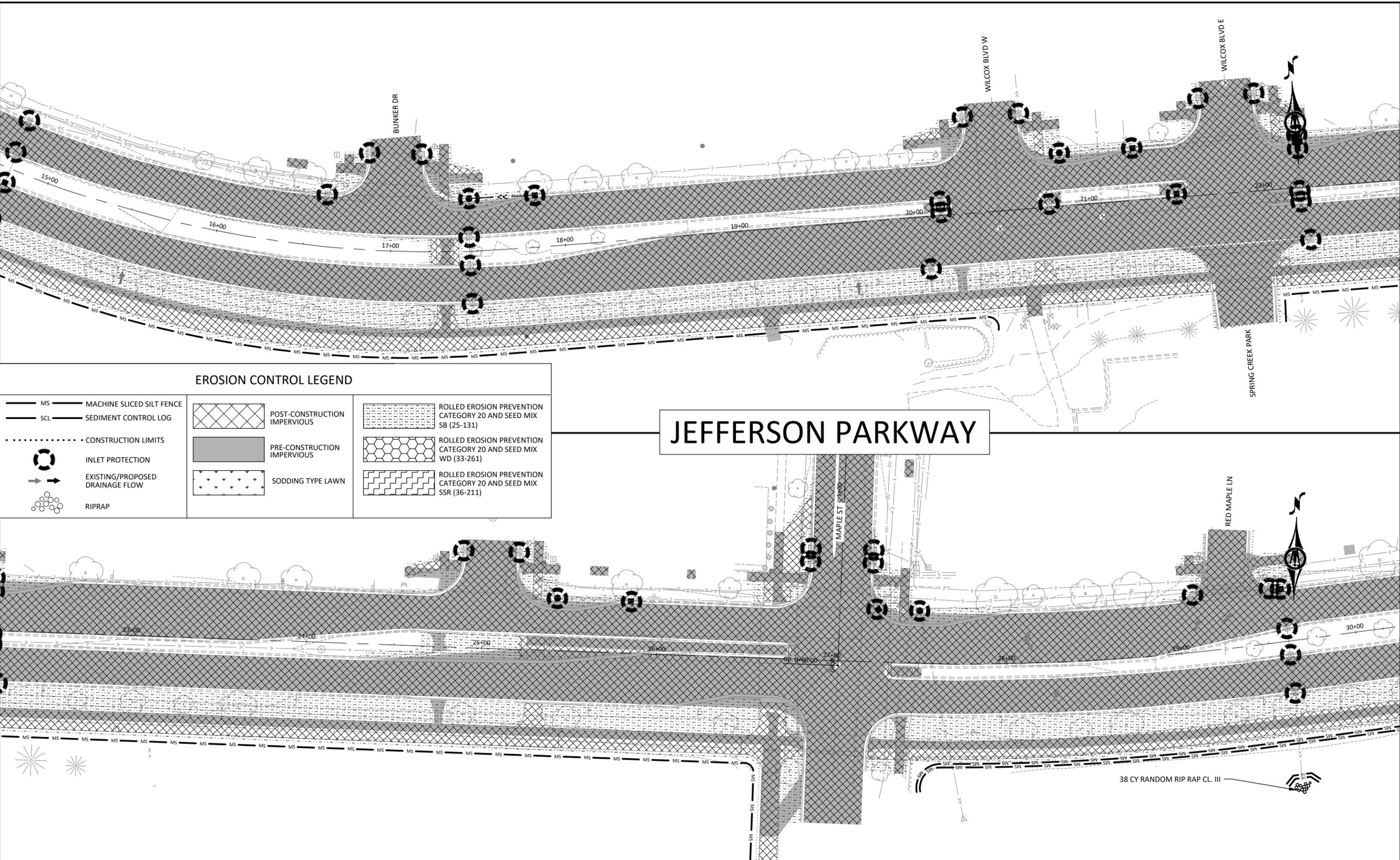
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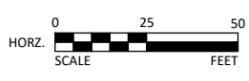
JEFFERSON PARKWAY

EROSION CONTROL LEGEND

	MACHINE SLICED SILT FENCE		POST-CONSTRUCTION IMPERVIOUS		ROLLED EROSION PREVENTION CATEGORY 20 AND SEED MIX SB (25-131)
	SEDIMENT CONTROL LOG		PRE-CONSTRUCTION IMPERVIOUS		ROLLED EROSION PREVENTION CATEGORY 20 AND SEED MIX WD (33-261)
	CONSTRUCTION LIMITS		SODDING TYPE LAWN		ROLLED EROSION PREVENTION CATEGORY 20 AND SEED MIX SSR (36-211)
	INLET PROTECTION				
	EXISTING/PROPOSED DRAINAGE FLOW				
	RIPRAP				



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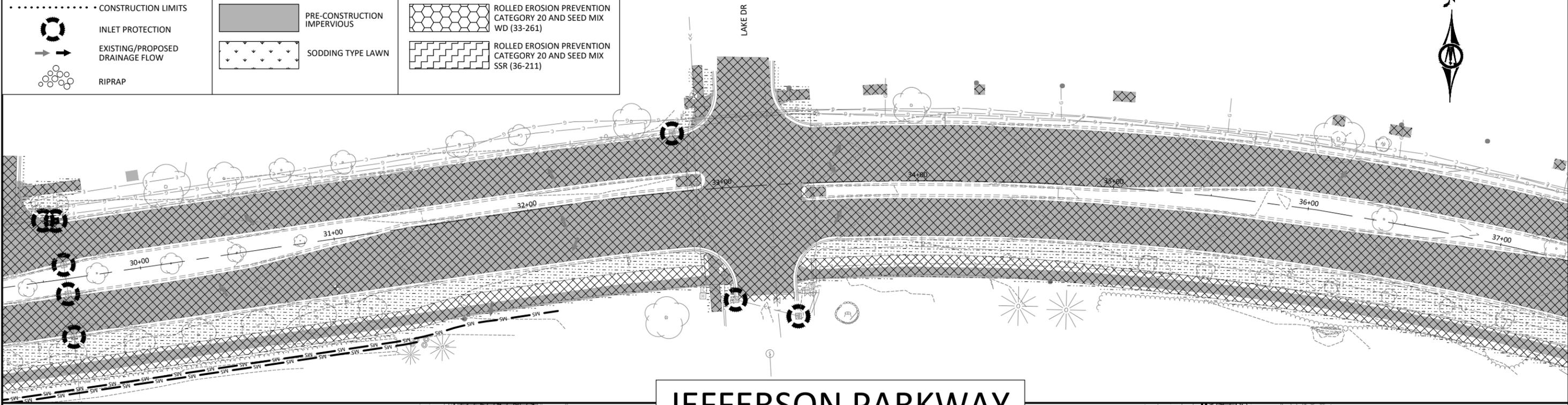
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 EROSION CONTROL PLAN
 JEFFERSON PARKWAY

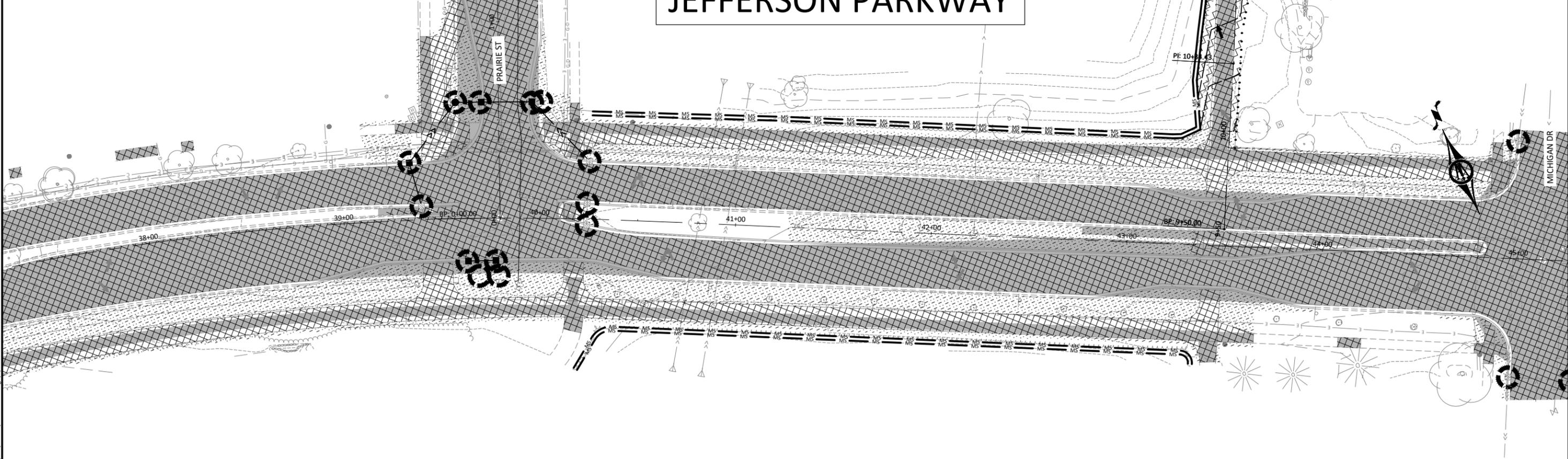
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EROSION CONTROL LEGEND

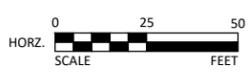
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	SCL SEDIMENT CONTROL LOG		PRE-CONSTRUCTION IMPERVIOUS		ROLLED EROSION PREVENTION CATEGORY 20 AND SEED MIX WD (33-261)
	CONSTRUCTION LIMITS		SODDING TYPE LAWN		ROLLED EROSION PREVENTION CATEGORY 20 AND SEED MIX SSR (36-211)
	INLET PROTECTION				
	EXISTING/PROPOSED DRAINAGE FLOW				
	RIPRAP				



JEFFERSON PARKWAY



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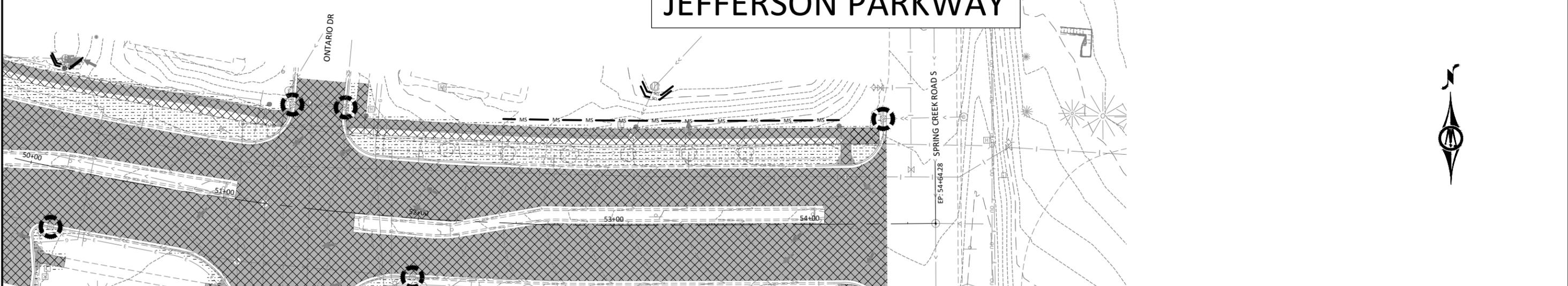
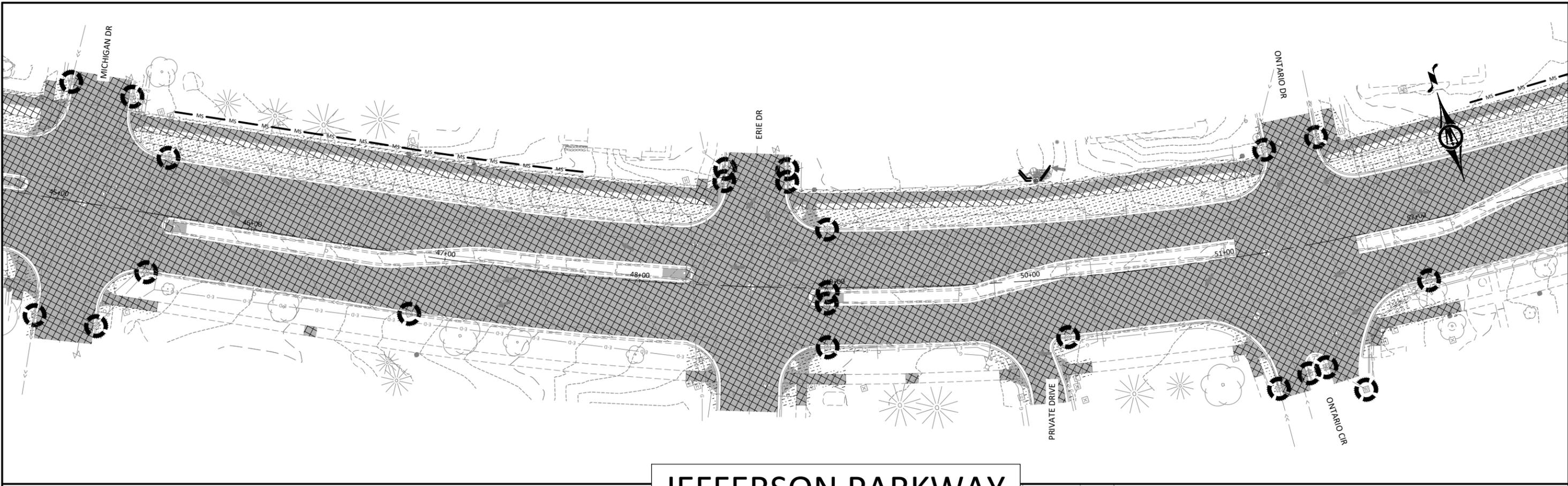
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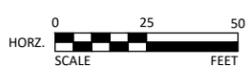
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JEFFERSON PARKWAY

EROSION CONTROL LEGEND				
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	SCL	SEDIMENT CONTROL LOG		PRE-CONSTRUCTION IMPERVIOUS
		CONSTRUCTION LIMITS		SODDING TYPE LAWN
		INLET PROTECTION		ROLLED EROSION PREVENTION CATEGORY 20 AND SEED MIX SB (25-131)
		EXISTING/PROPOSED DRAINAGE FLOW		ROLLED EROSION PREVENTION CATEGORY 20 AND SEED MIX WD (33-261)
		RIPRAP		ROLLED EROSION PREVENTION CATEGORY 20 AND SEED MIX SSR (36-211)

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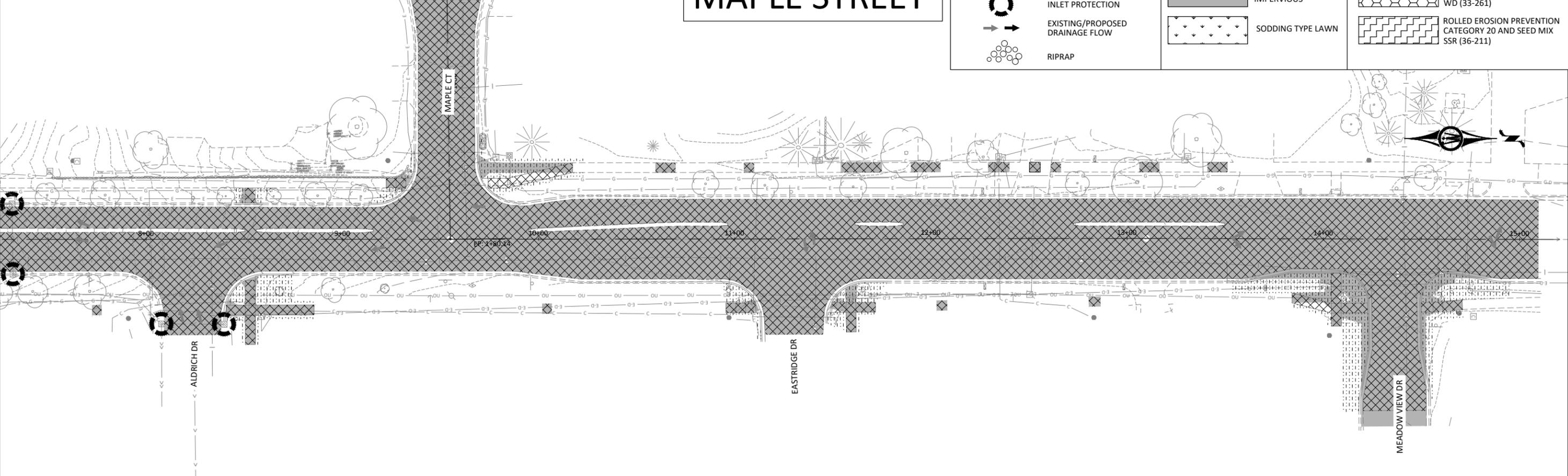
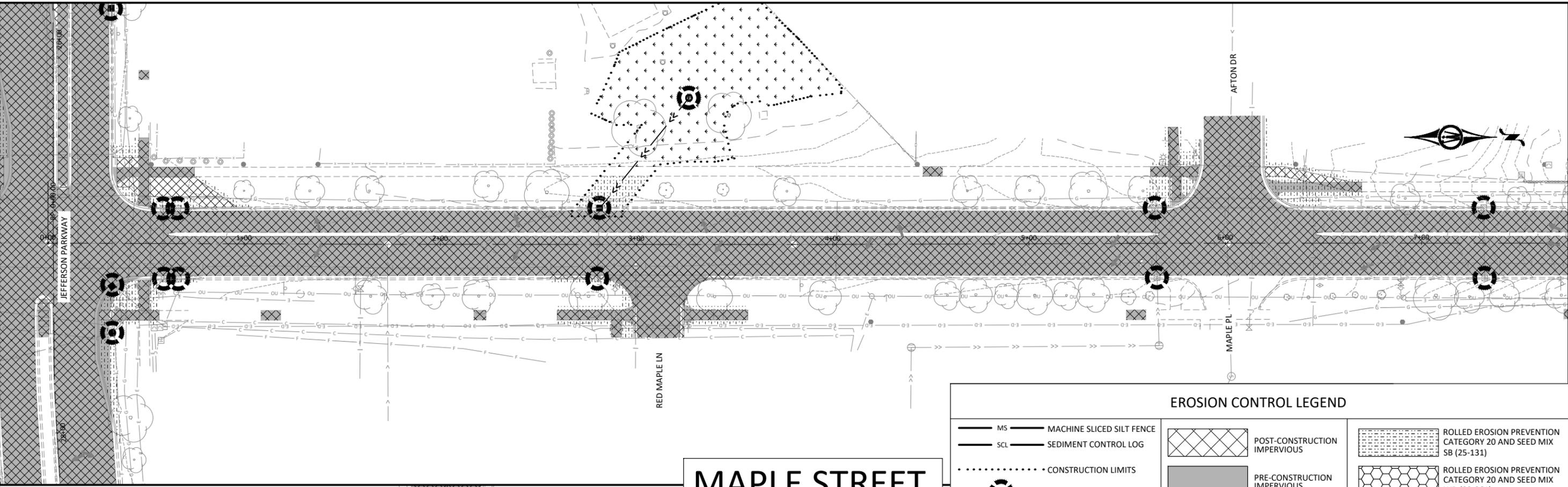
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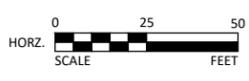


EROSION CONTROL LEGEND

	MS — MACHINE SLICED SILT FENCE		POST-CONSTRUCTION IMPERVIOUS		ROLLED EROSION PREVENTION CATEGORY 20 AND SEED MIX SB (25-131)
	SCL — SEDIMENT CONTROL LOG		PRE-CONSTRUCTION IMPERVIOUS		ROLLED EROSION PREVENTION CATEGORY 20 AND SEED MIX WD (33-261)
	CONSTRUCTION LIMITS		SODDING TYPE LAWN		ROLLED EROSION PREVENTION CATEGORY 20 AND SEED MIX SSR (36-211)
	INLET PROTECTION				
	EXISTING/PROPOSED DRAINAGE FLOW				
	RIPRAP				

MAPLE STREET

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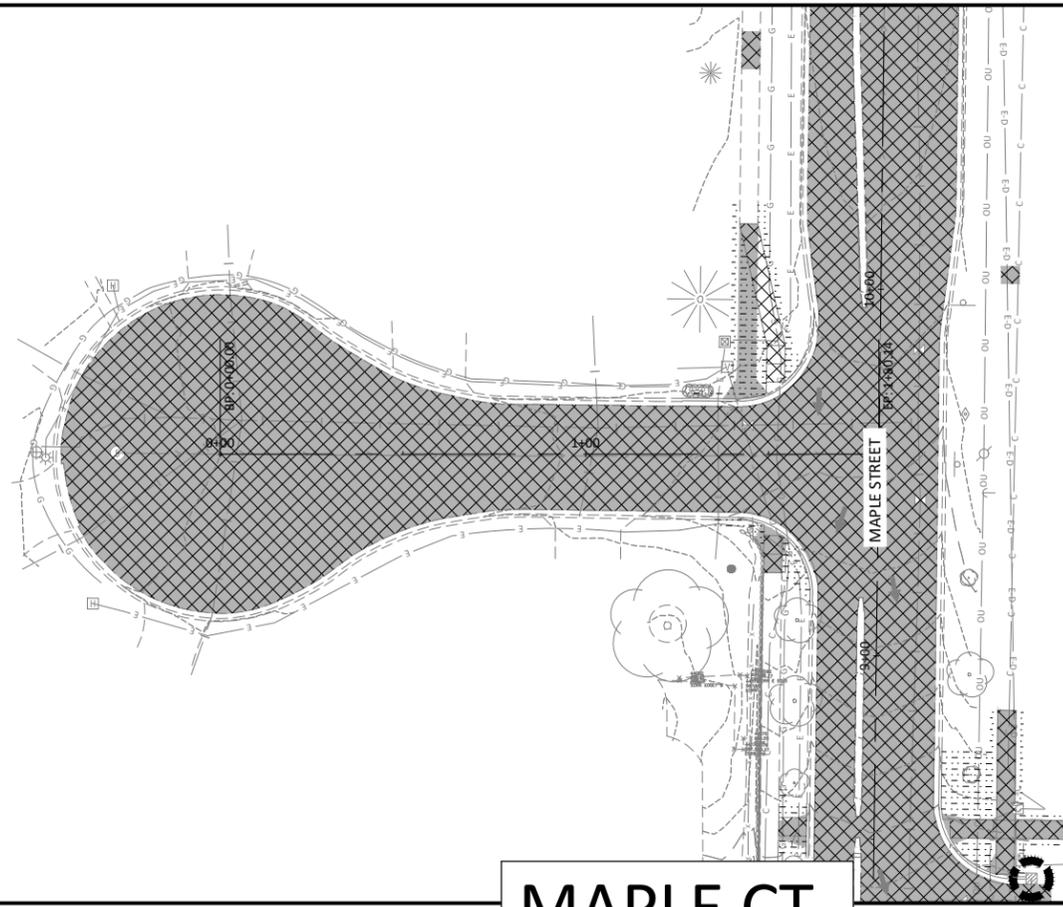
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 MAPLE STREET

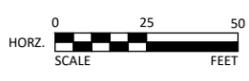
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MAPLE CT

EROSION CONTROL LEGEND			
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— SCL —	SEDIMENT CONTROL LOG		PRE-CONSTRUCTION IMPERVIOUS
.....	CONSTRUCTION LIMITS		SODDING TYPE LAWN
	INLET PROTECTION		ROLLED EROSION PREVENTION CATEGORY 20 AND SEED MIX SB (25-131)
	EXISTING/PROPOSED DRAINAGE FLOW		ROLLED EROSION PREVENTION CATEGORY 20 AND SEED MIX WD (33-261)
	RIPRAP		ROLLED EROSION PREVENTION CATEGORY 20 AND SEED MIX SSR (36-211)

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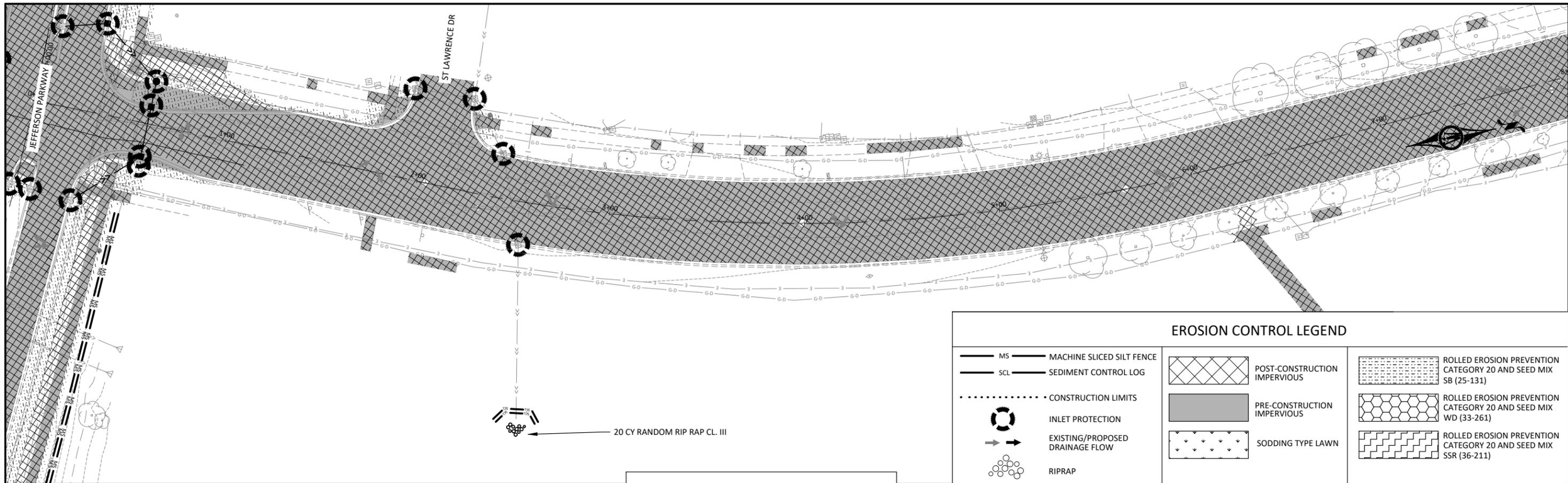
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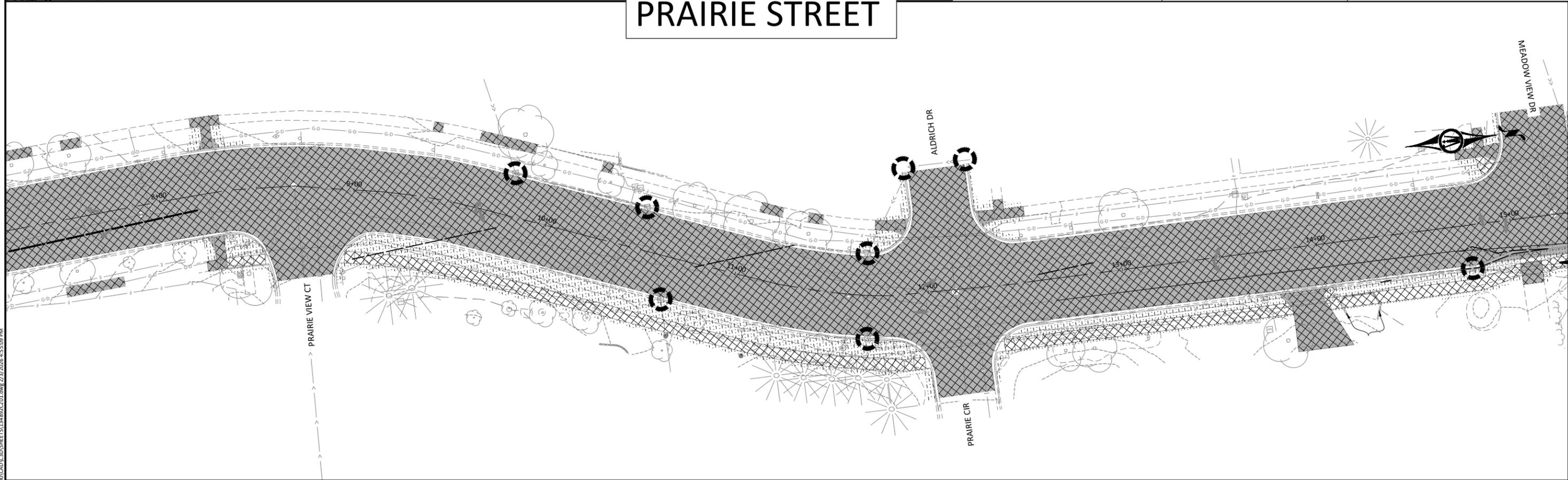
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PRAIRIE STREET

EROSION CONTROL LEGEND			
MS	MACHINE SLICED SILT FENCE	POST-CONSTRUCTION IMPERVIOUS	ROLLED EROSION PREVENTION CATEGORY 20 AND SEED MIX SB (25-131)
SCL	SEDIMENT CONTROL LOG	PRE-CONSTRUCTION IMPERVIOUS	ROLLED EROSION PREVENTION CATEGORY 20 AND SEED MIX WD (33-261)
	CONSTRUCTION LIMITS	SODDING TYPE LAWN	ROLLED EROSION PREVENTION CATEGORY 20 AND SEED MIX SSR (36-211)
	INLET PROTECTION		
	EXISTING/PROPOSED DRAINAGE FLOW		
	RIPRAP		



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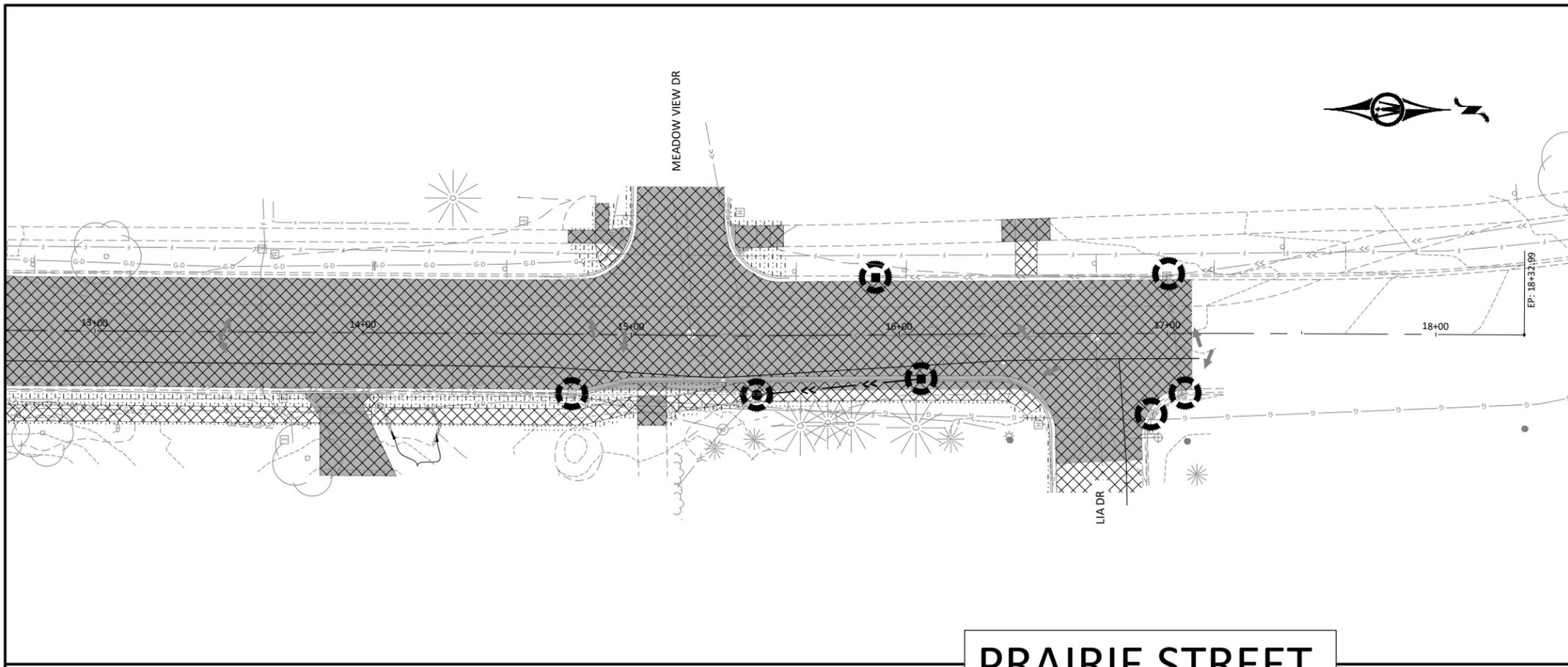
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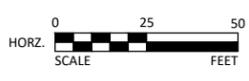
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PRAIRIE STREET

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— SCL —	SEDIMENT CONTROL LOG		PRE-CONSTRUCTION IMPERVIOUS
.....	CONSTRUCTION LIMITS		SODDING TYPE LAWN
	INLET PROTECTION		ROLLED EROSION PREVENTION CATEGORY 20 AND SEED MIX SB (25-131)
	EXISTING/PROPOSED DRAINAGE FLOW		ROLLED EROSION PREVENTION CATEGORY 20 AND SEED MIX WD (33-261)
	RIPRAP		ROLLED EROSION PREVENTION CATEGORY 20 AND SEED MIX SSR (36-211)

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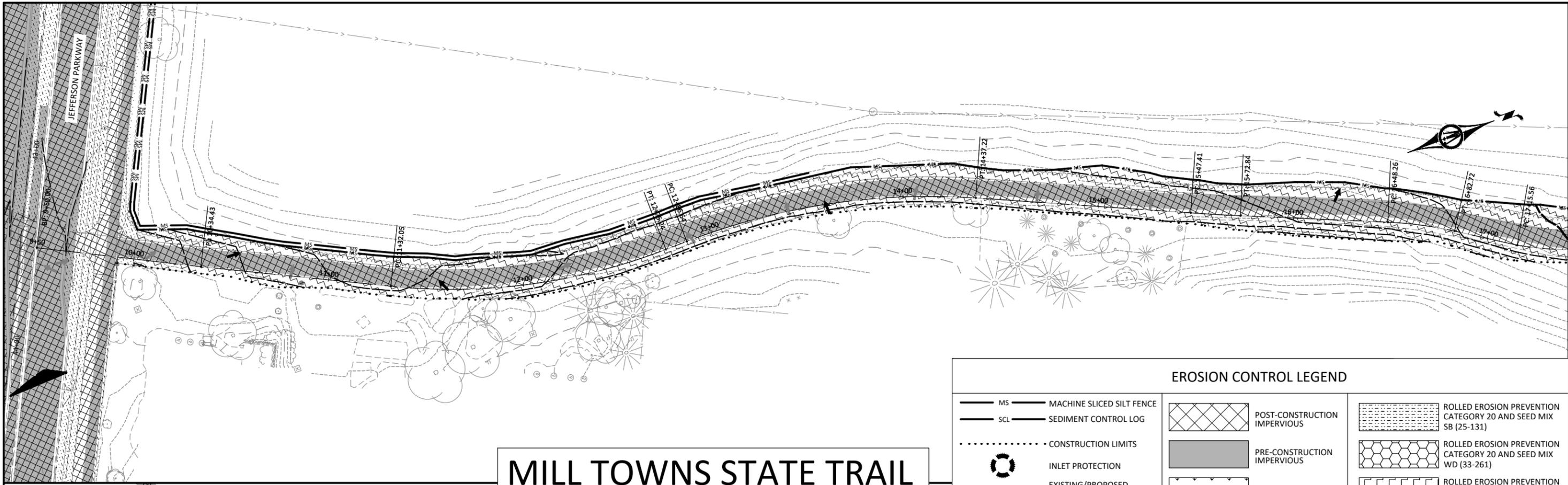
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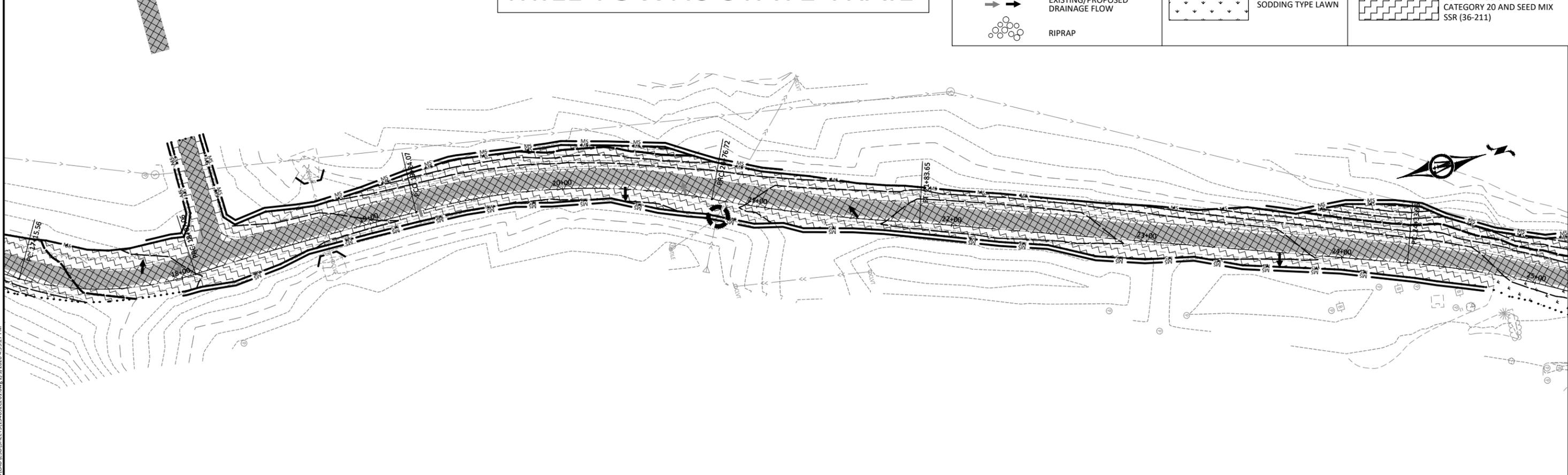
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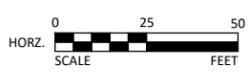


MILL TOWNS STATE TRAIL

EROSION CONTROL LEGEND			
	MS	MACHINE SLICED SILT FENCE	
	SCL	SEDIMENT CONTROL LOG	
		CONSTRUCTION LIMITS	
		INLET PROTECTION	
		EXISTING/PROPOSED DRAINAGE FLOW	
		RIPRAP	
		POST-CONSTRUCTION IMPERVIOUS	
		PRE-CONSTRUCTION IMPERVIOUS	
		SODDING TYPE LAWN	
		ROLLED EROSION PREVENTION CATEGORY 20 AND SEED MIX SB (25-131)	
		ROLLED EROSION PREVENTION CATEGORY 20 AND SEED MIX WD (33-261)	
		ROLLED EROSION PREVENTION CATEGORY 20 AND SEED MIX SSR (36-211)	



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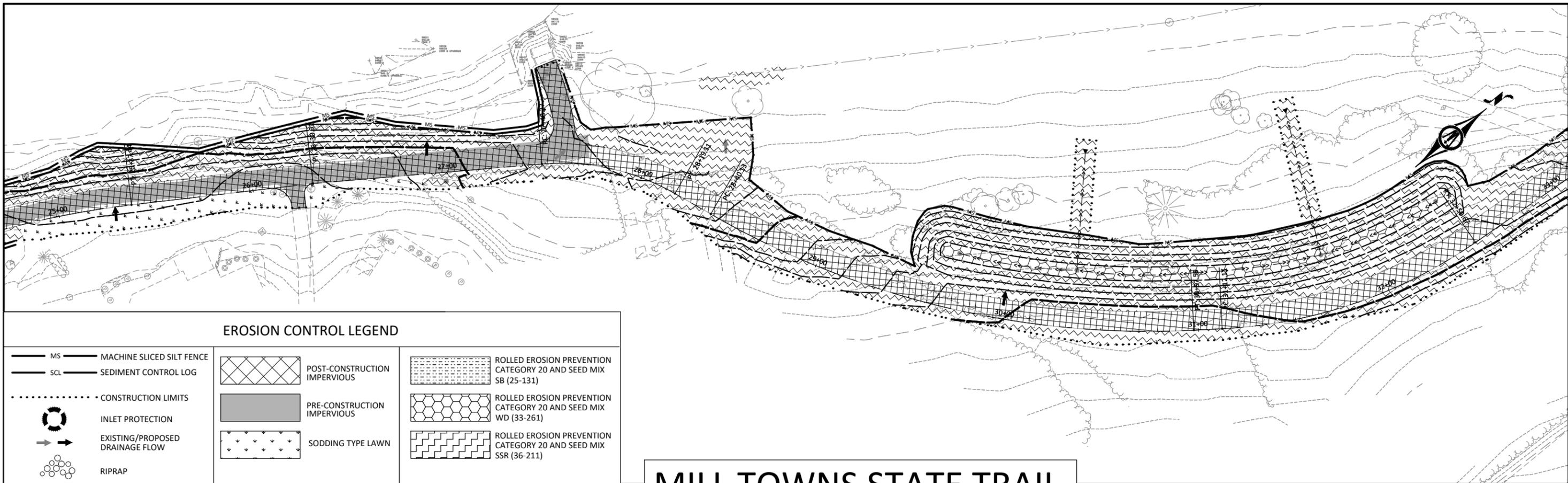


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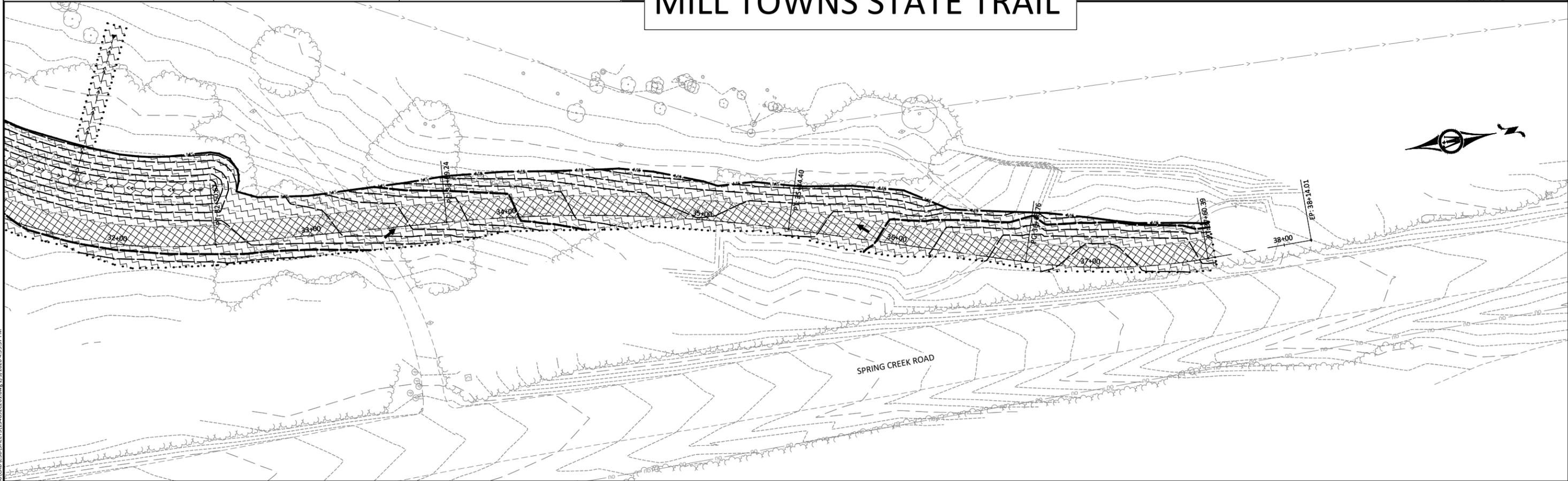
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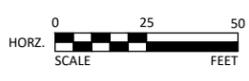
EROSION CONTROL LEGEND

MS	MACHINE SLICED SILT FENCE		POST-CONSTRUCTION IMPERVIOUS		ROLLED EROSION PREVENTION CATEGORY 20 AND SEED MIX SB (25-131)
SCL	SEDIMENT CONTROL LOG		PRE-CONSTRUCTION IMPERVIOUS		ROLLED EROSION PREVENTION CATEGORY 20 AND SEED MIX WD (33-261)
.....	CONSTRUCTION LIMITS		SODDING TYPE LAWN		ROLLED EROSION PREVENTION CATEGORY 20 AND SEED MIX SSR (36-211)
	INLET PROTECTION				
	EXISTING/PROPOSED DRAINAGE FLOW				
	RIPRAP				

MILL TOWNS STATE TRAIL



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NORTHFIELD, MINNESOTA
 2026 JEFFERSON PKWY M&O AND MTST IMPROVEMENTS
 EROSION CONTROL PLAN
 MILL TOWNS STATE TRAIL

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NORTHFIELD, MINNESOTA
 2026 JEFFERSON PKWY M&O AND MTST IMPROVEMENTS
GRADING PLAN
 STORMWATER BMP

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#613 BUNKER DR

LOW OPENING = 970.17

EOF = 969.21

GRADING/CONSTRUCTION LIMITS

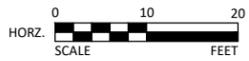
LOW POINT/ RIM STRUCTURE = 967.73

T/E (TYP.)

P/E (TYP.)

MAPLE STREET

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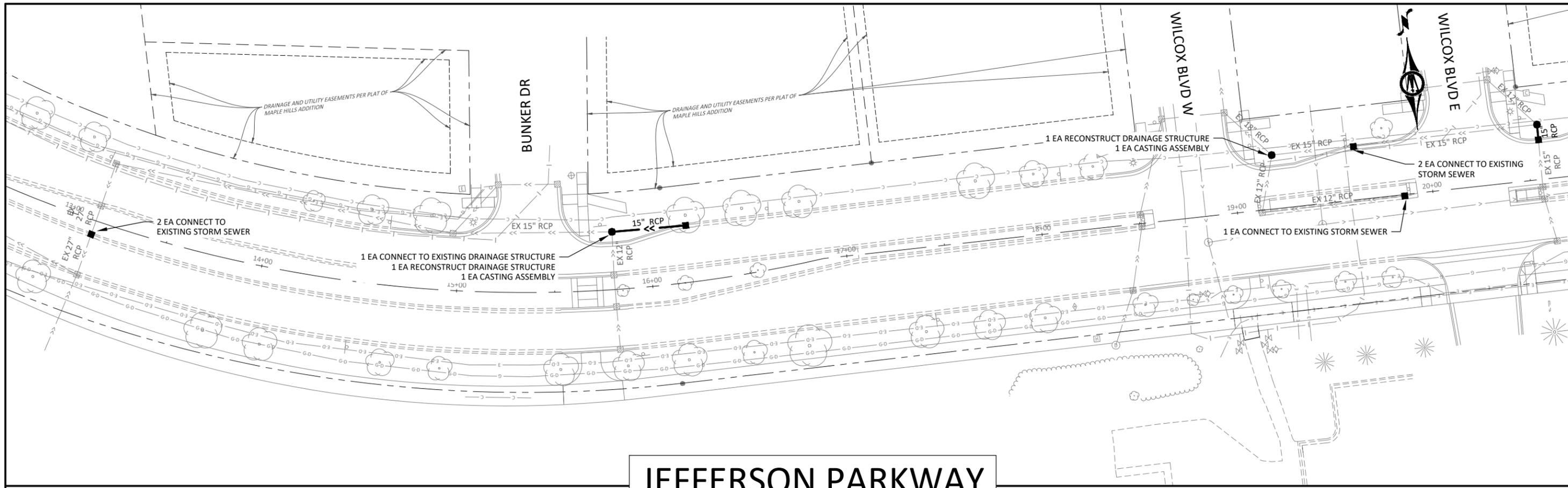
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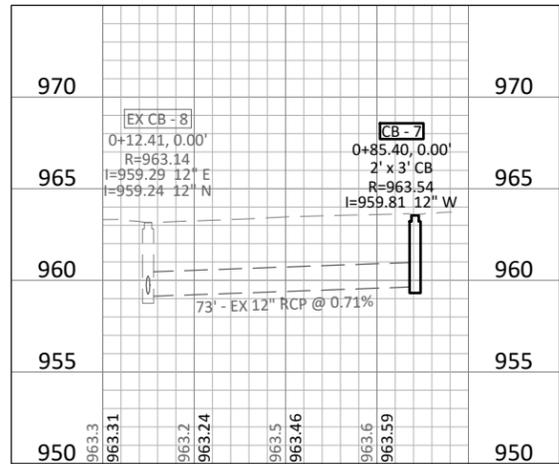
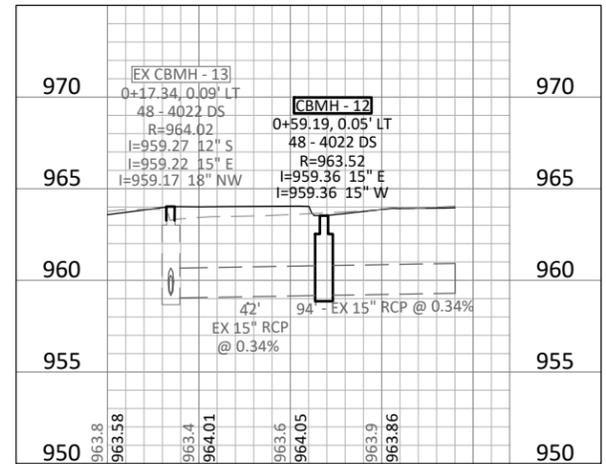
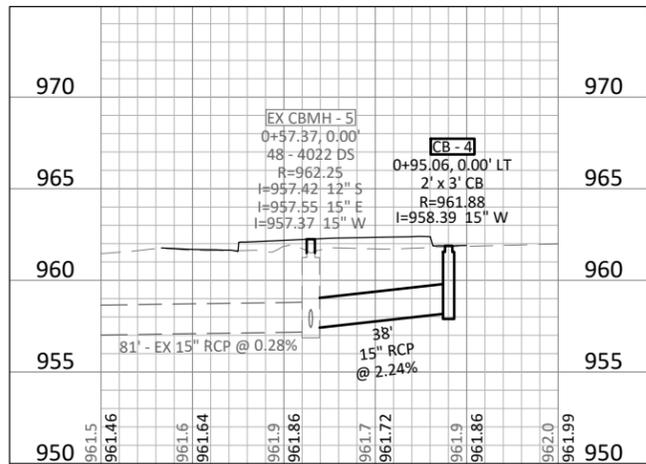
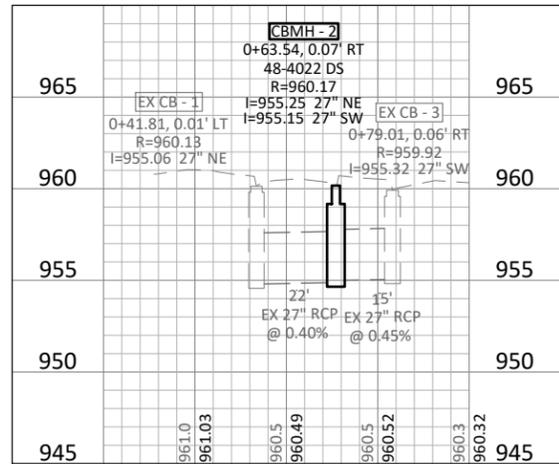
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NORTHFIELD, MINNESOTA
2026 JEFFERSON PKWY M&O AND MTST IMPROVEMENTS
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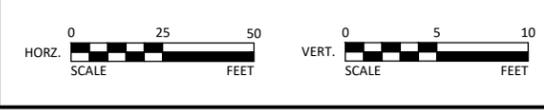
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JEFFERSON PARKWAY



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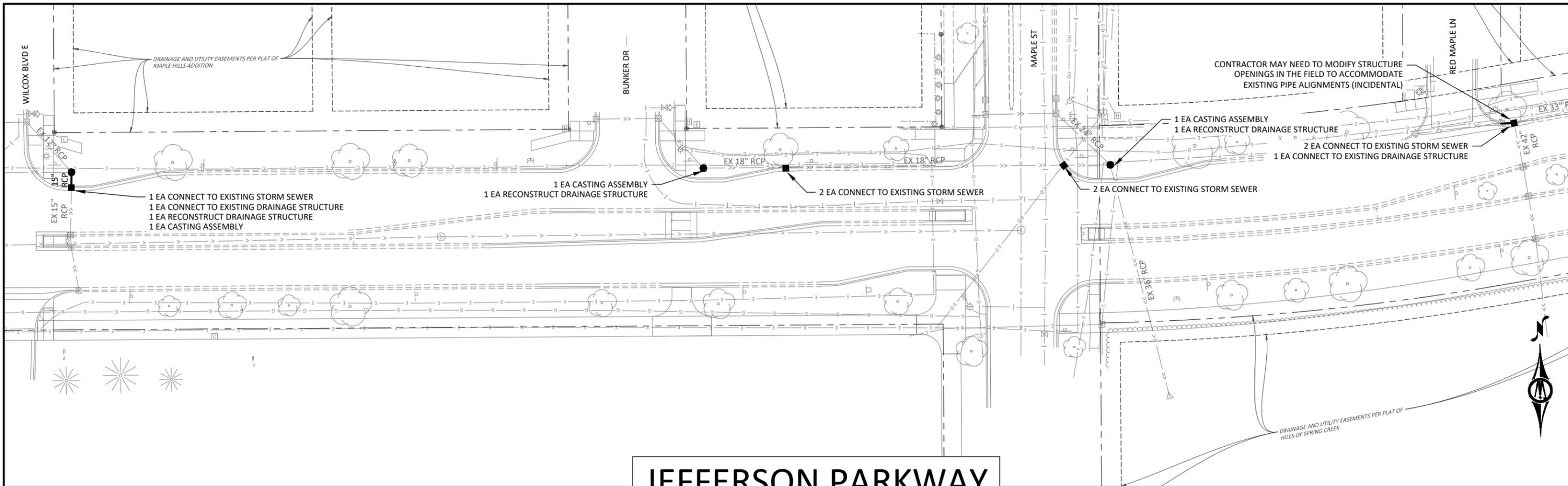
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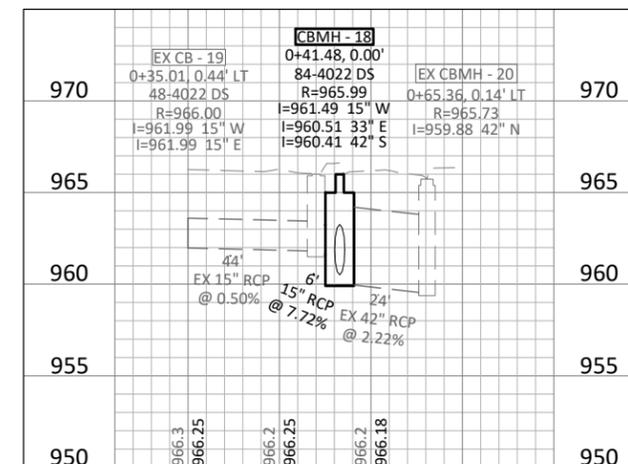
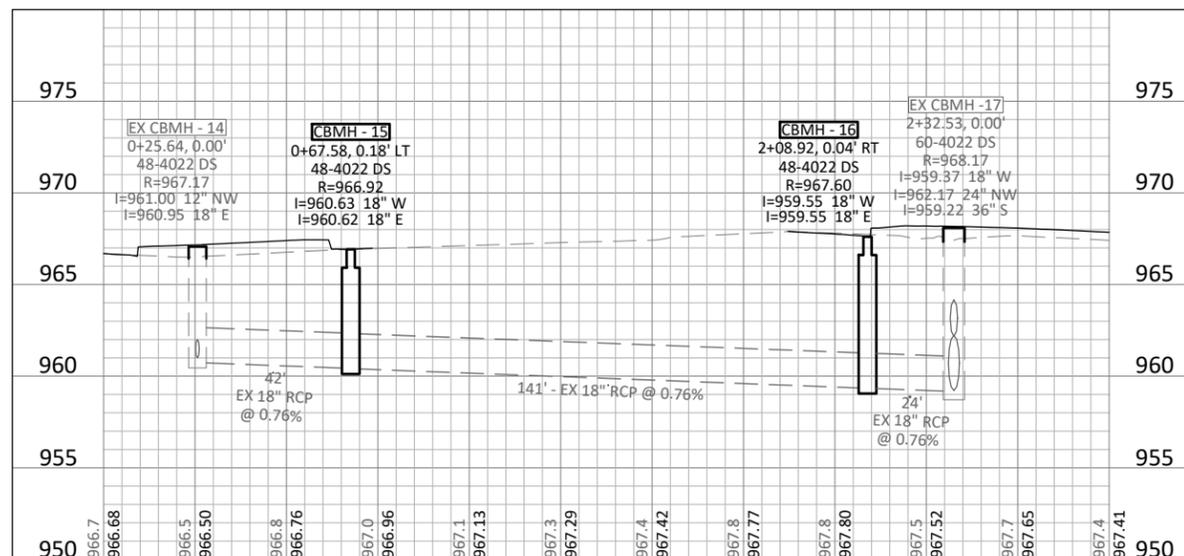
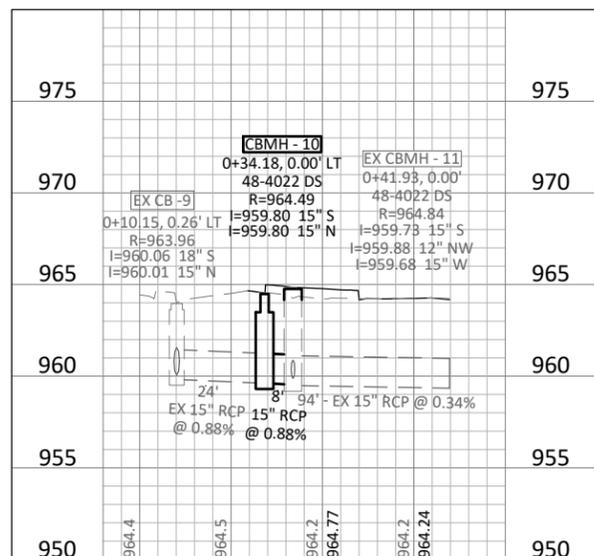
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NORTHFIELD, MINNESOTA
 2026 JEFFERSON PKWY M&O AND MTST IMPROVEMENTS
 STORM SEWER PLAN & PROFILE
 JEFFERSON PARKWAY

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JEFFERSON PARKWAY



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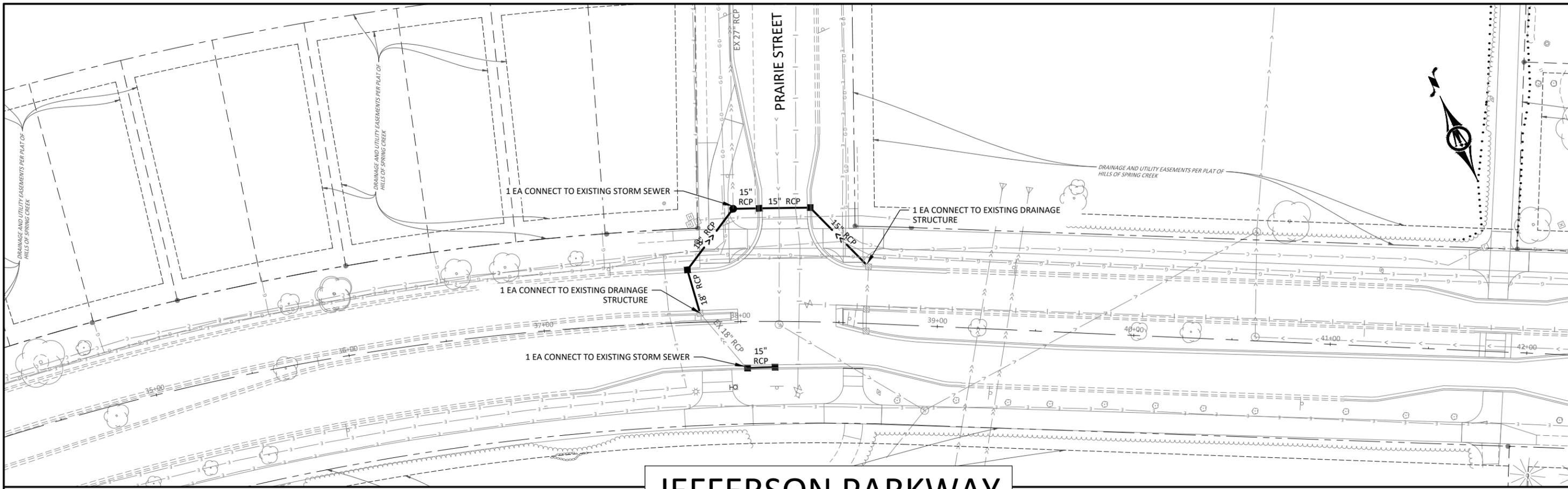
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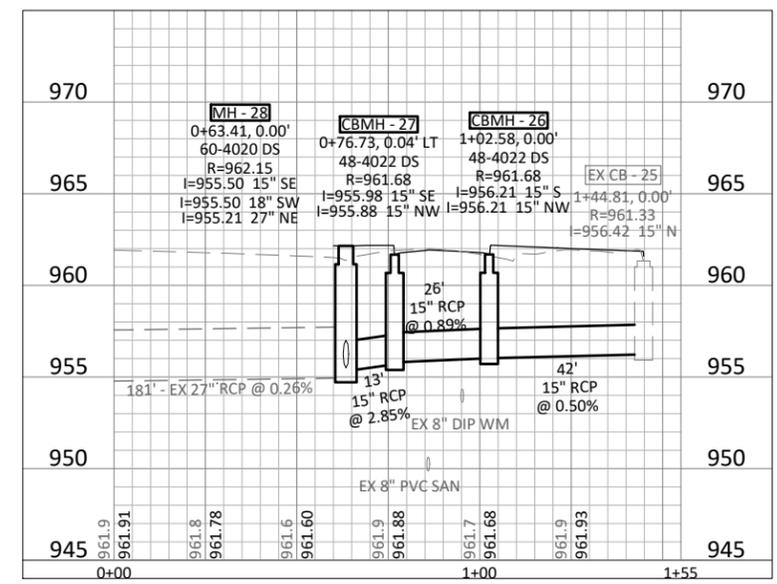
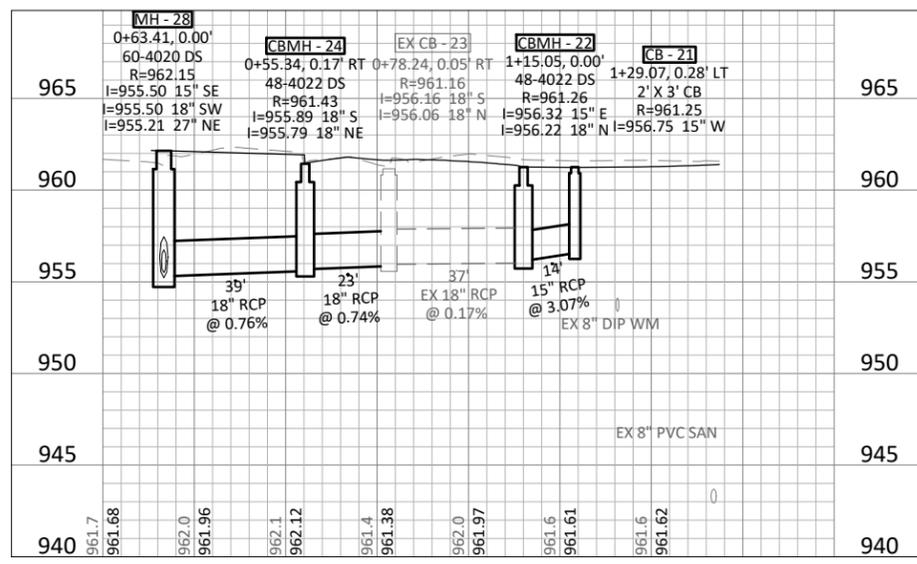
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NORTHFIELD, MINNESOTA
2026 JEFFERSON PKWY M&O AND MTST IMPROVEMENTS
STORM SEWER PLAN & PROFILE
JEFFERSON PARKWAY

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JEFFERSON PARKWAY



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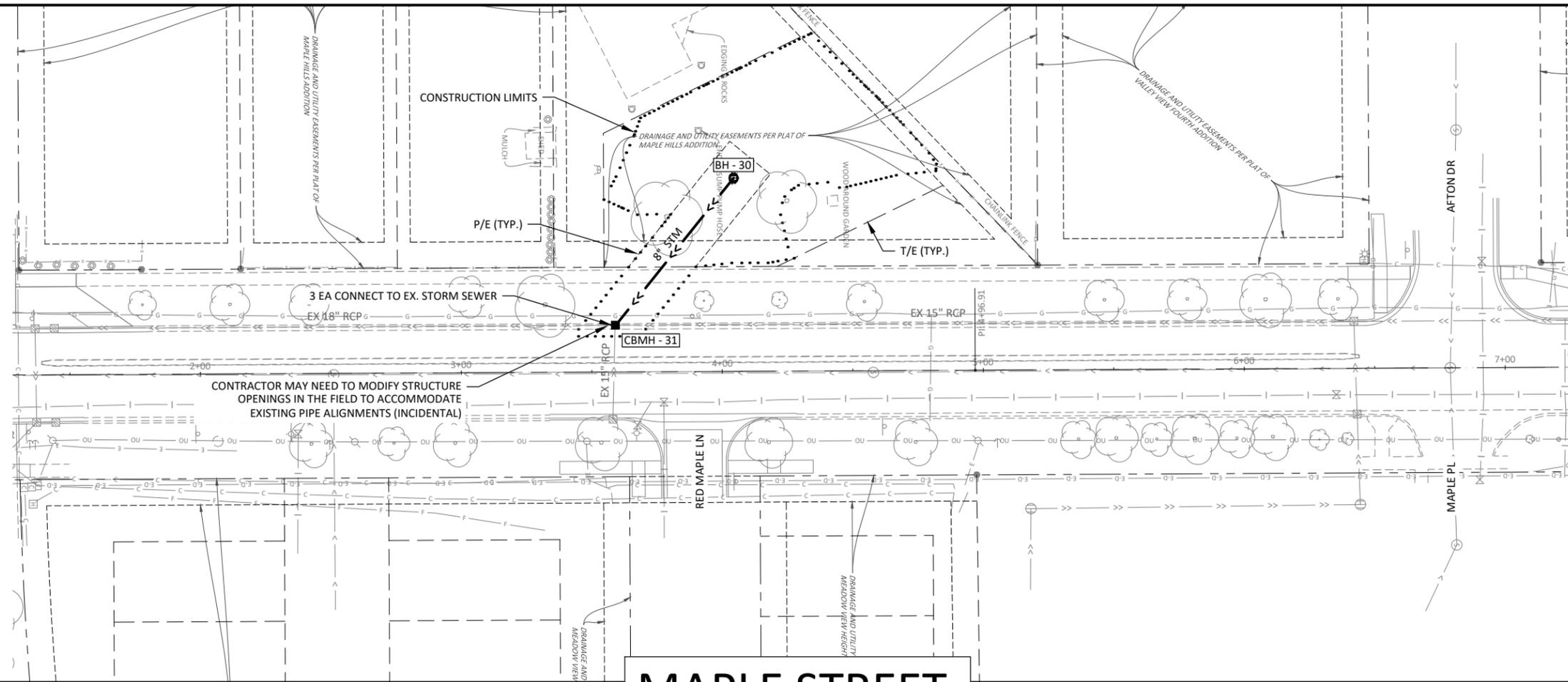
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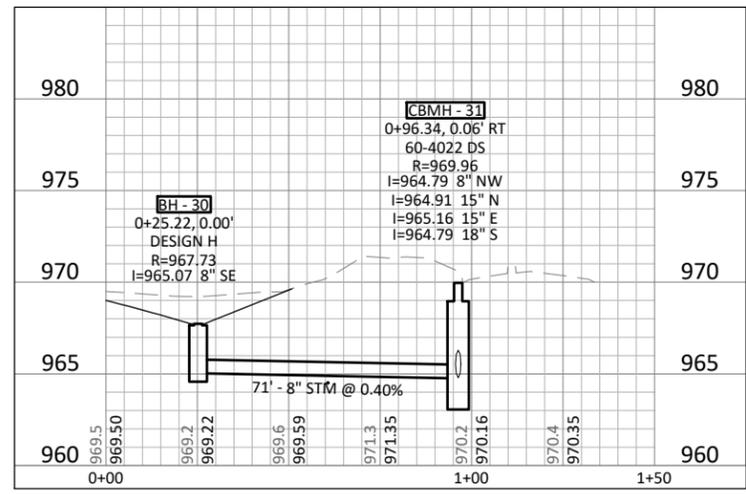
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NORTHFIELD, MINNESOTA
2026 JEFFERSON PKWY M&O AND MTST IMPROVEMENTS
STORM SEWER PLAN & PROFILE
JEFFERSON PARKWAY

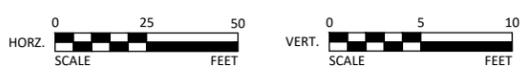
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MAPLE STREET



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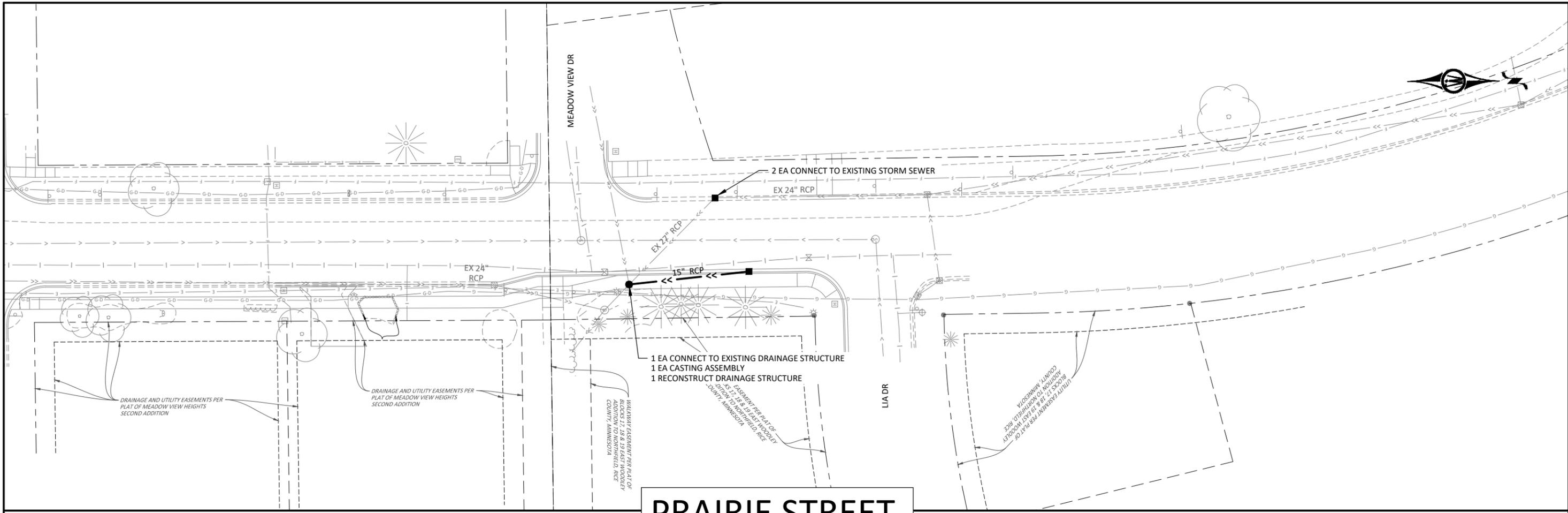
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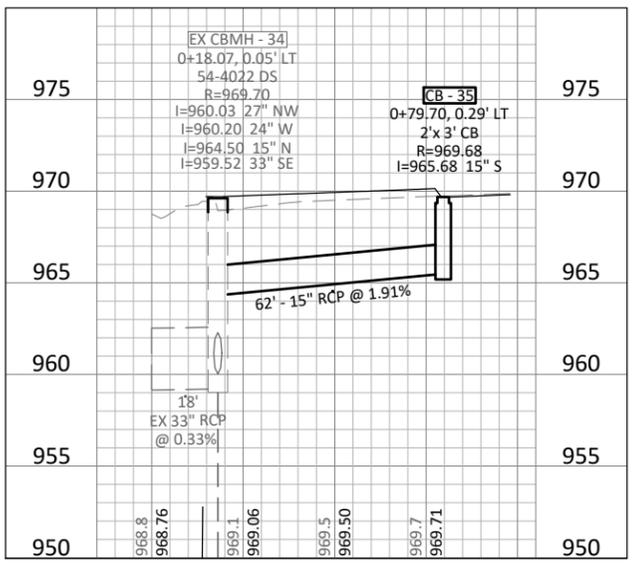
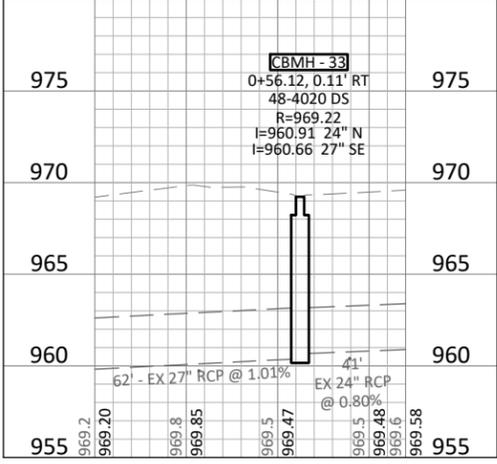
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NORTHFIELD, MINNESOTA
 2026 JEFFERSON PKWY M&O AND MTST IMPROVEMENTS
 STORM SEWER PLAN & PROFILE
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PRAIRIE STREET



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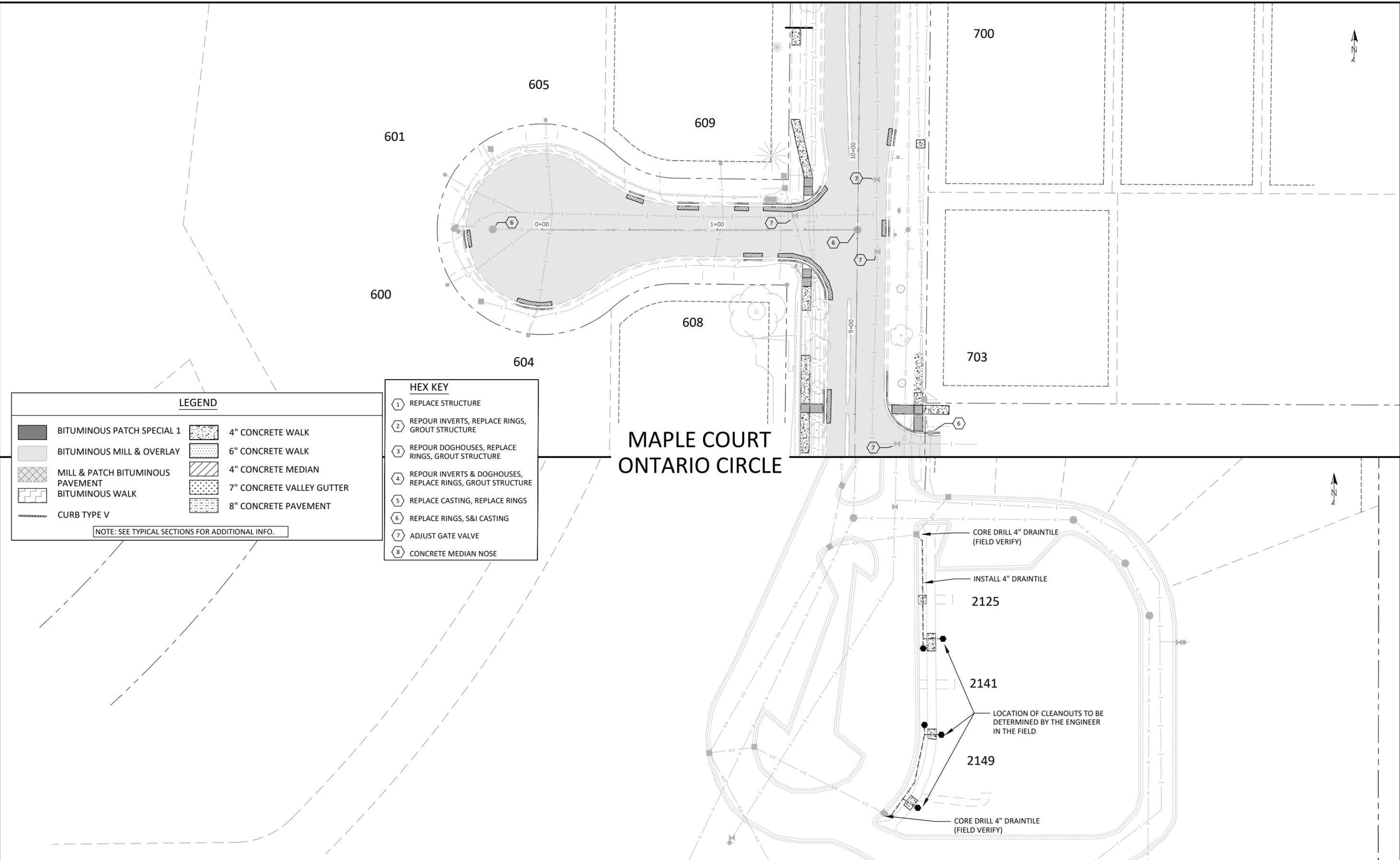


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NORTHFIELD, MINNESOTA
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STORM SEWER PLAN & PROFILE
PRAIRIE STREET

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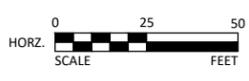
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	BITUMINOUS PATCH SPECIAL 1		4" CONCRETE WALK
	BITUMINOUS MILL & OVERLAY		6" CONCRETE WALK
	MILL & PATCH BITUMINOUS PAVEMENT		4" CONCRETE MEDIAN
	BITUMINOUS WALK		7" CONCRETE VALLEY GUTTER
	CURB TYPE V		8" CONCRETE PAVEMENT

NOTE: SEE TYPICAL SECTIONS FOR ADDITIONAL INFO.

HEX KEY

	1 REPLACE STRUCTURE
	2 REPOUR INVERTS, REPLACE RINGS, GROUT STRUCTURE
	3 REPOUR DOGHOUSES, REPLACE RINGS, GROUT STRUCTURE
	4 REPOUR INVERTS & DOGHOUSES, REPLACE RINGS, GROUT STRUCTURE
	5 REPLACE CASTING, REPLACE RINGS
	6 REPLACE RINGS, S&I CASTING
	7 ADJUST GATE VALVE
	8 CONCRETE MEDIAN NOSE



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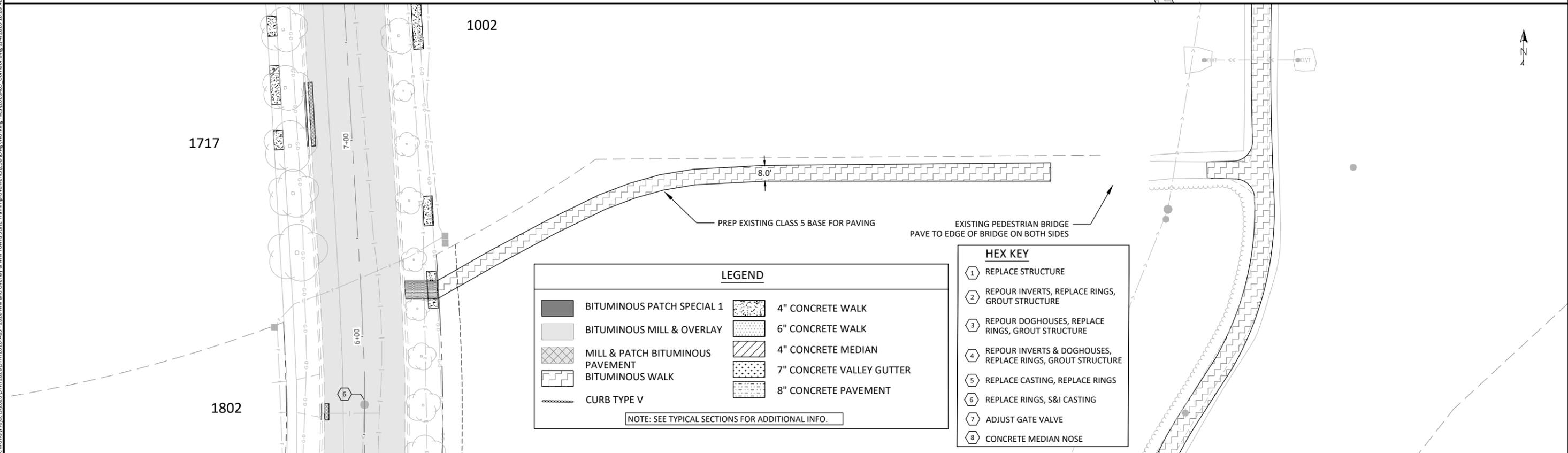
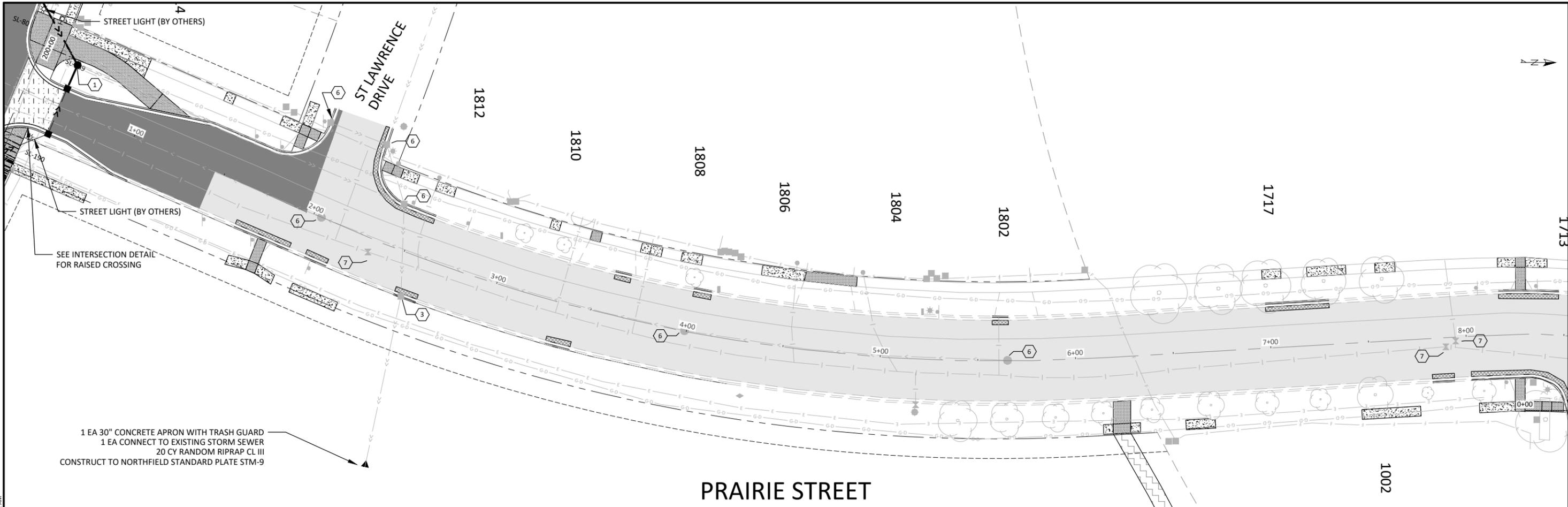
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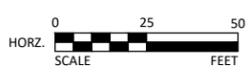
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NORTHFIELD, MINNESOTA
2026 JEFFERSON PKWY M&O AND MTST
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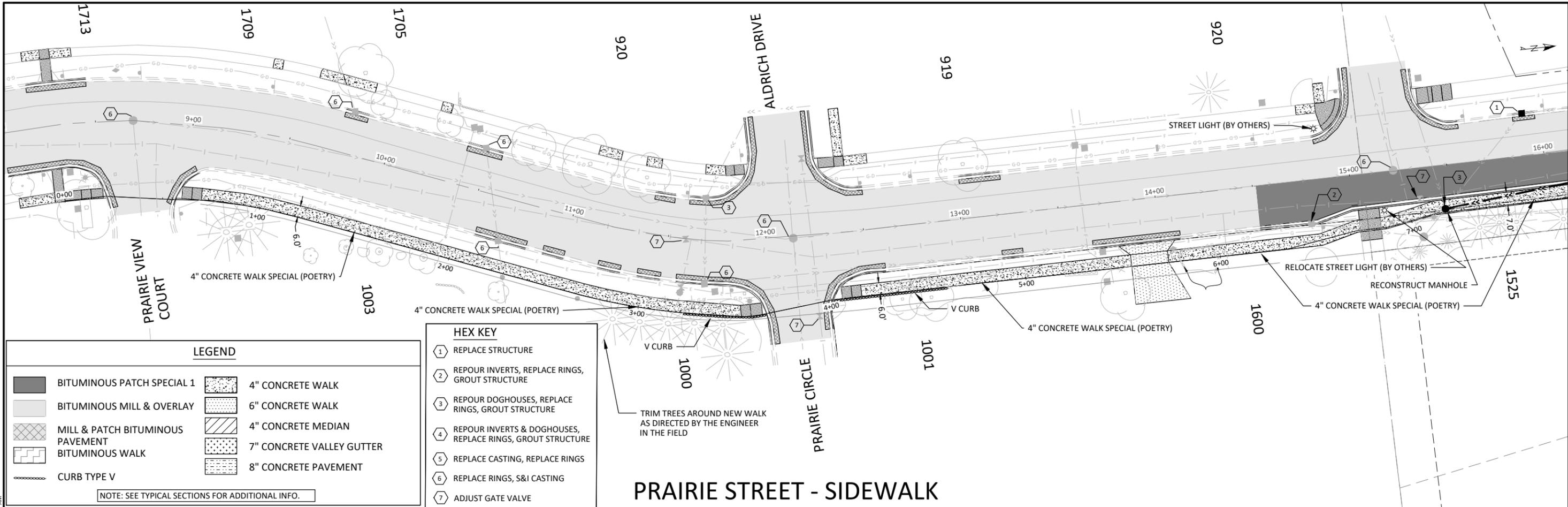
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NORTHFIELD, MINNESOTA
2026 JEFFERSON PKWY M&O AND MTST
CONSTRUCTION PLAN
PRAIRIE STREET - TRAIL

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LEGEND

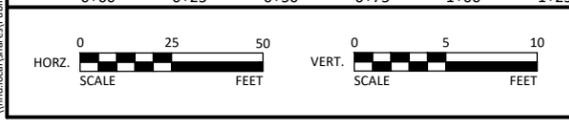
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	BITUMINOUS WALK		7" CONCRETE VALLEY GUTTER
	CURB TYPE V		8" CONCRETE PAVEMENT

NOTE: SEE TYPICAL SECTIONS FOR ADDITIONAL INFO.

HEX KEY

	1 REPLACE STRUCTURE
	2 REPOUR INVERTS, REPLACE RINGS, GROUT STRUCTURE
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	5 REPLACE CASTING, REPLACE RINGS
	6 REPLACE RINGS, S&I CASTING
	7 ADJUST GATE VALVE
	8 CONCRETE MEDIAN NOSE

PRAIRIE STREET - SIDEWALK



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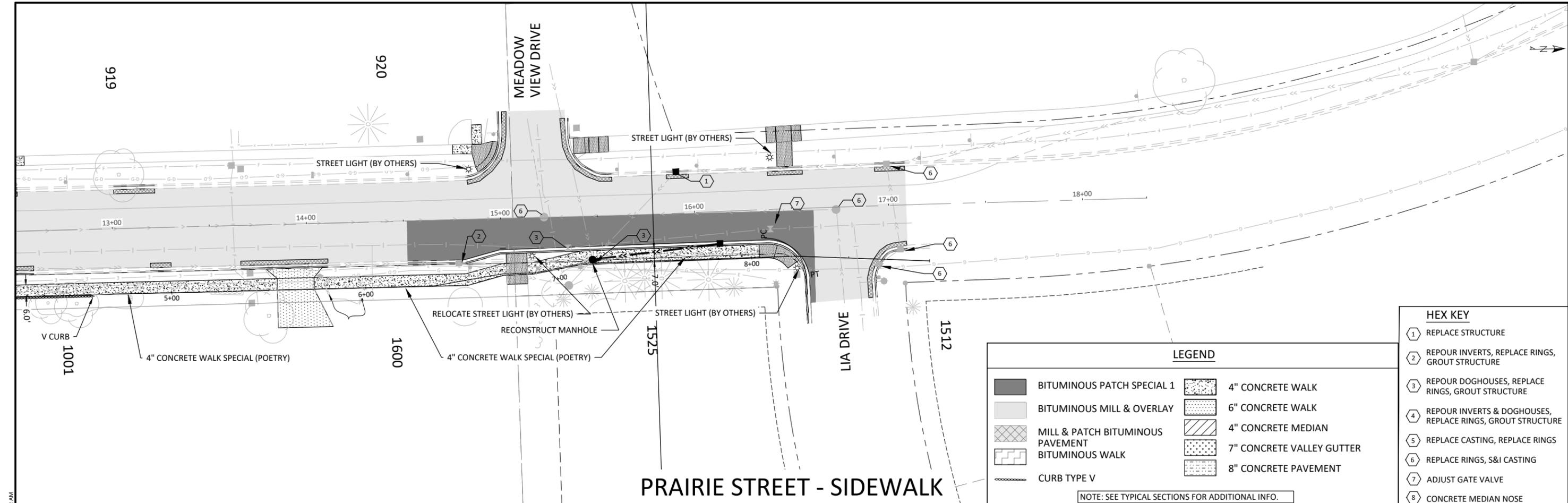


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NORTHFIELD, MINNESOTA
2026 JEFFERSON PKWY M&O AND MTST
PLAN & PROFILE
PRAIRIE STREET SIDEWALK

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55 OF 140

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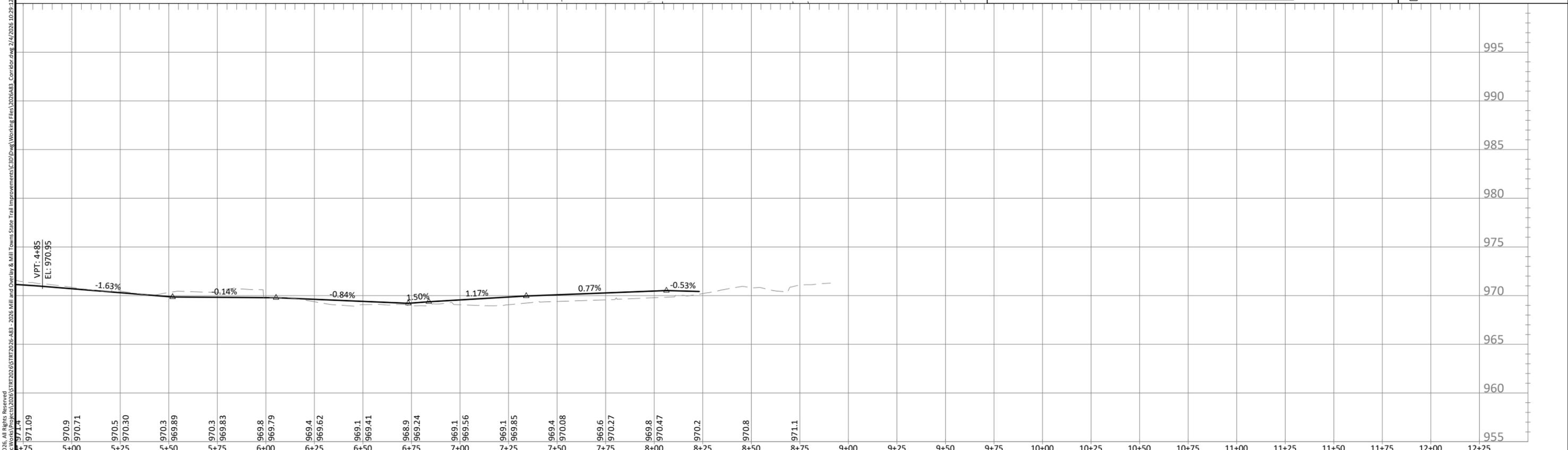
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	BITUMINOUS WALK		7" CONCRETE VALLEY GUTTER
	CURB TYPE V		8" CONCRETE PAVEMENT

NOTE: SEE TYPICAL SECTIONS FOR ADDITIONAL INFO.

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	6 REPLACE RINGS, S&I CASTING
	7 ADJUST GATE VALVE
	8 CONCRETE MEDIAN NOSE

PRAIRIE STREET - SIDEWALK



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NORTHFIELD, MINNESOTA
2026 JEFFERSON PKWY M&O AND MTST
PLAN & PROFILE
PRAIRIE STREET SIDEWALK

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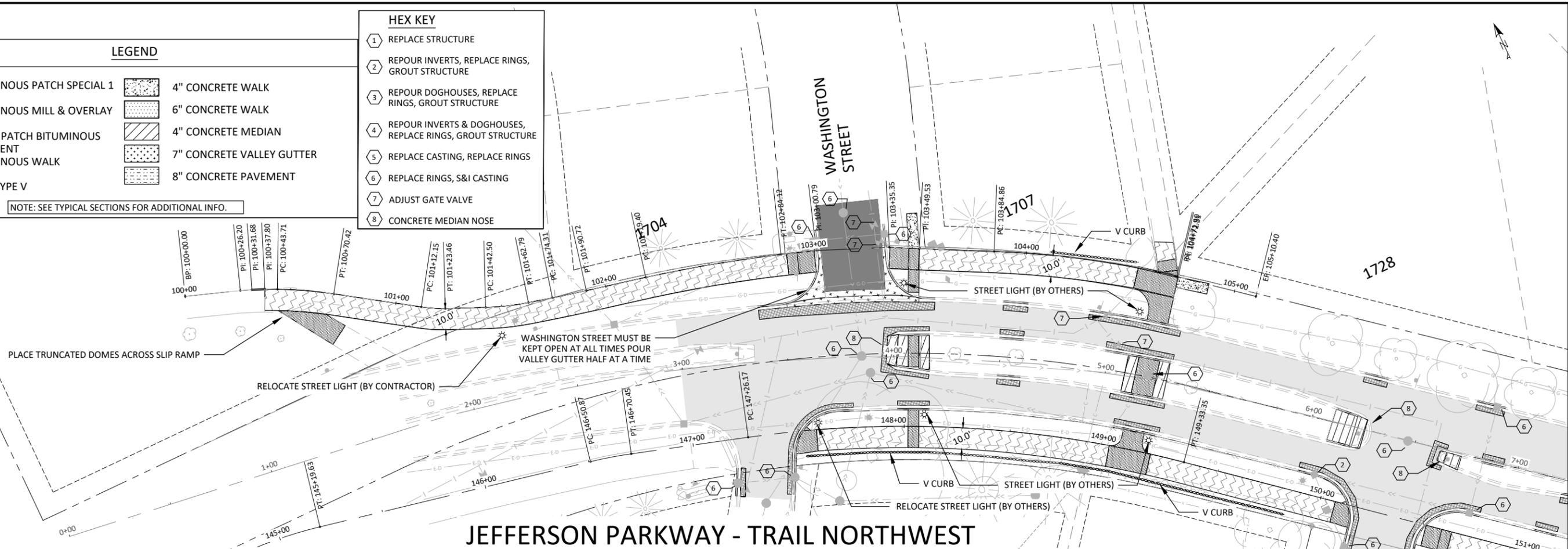
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	MILL & PATCH BITUMINOUS PAVEMENT		4" CONCRETE MEDIAN
	BITUMINOUS WALK		7" CONCRETE VALLEY GUTTER
	CURB TYPE V		8" CONCRETE PAVEMENT

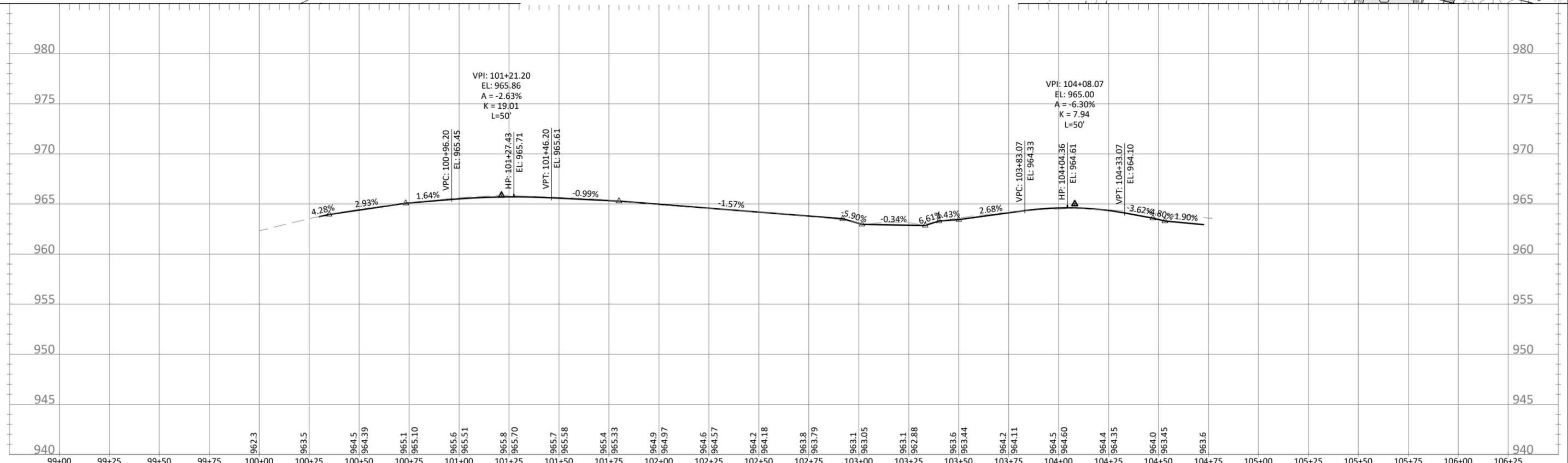
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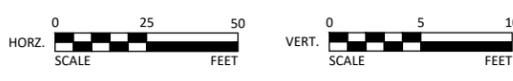
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	5 REPLACE CASTING, REPLACE RINGS
	6 REPLACE RINGS, S&I CASTING
	7 ADJUST GATE VALVE
	8 CONCRETE MEDIAN NOSE



JEFFERSON PARKWAY - TRAIL NORTHWEST



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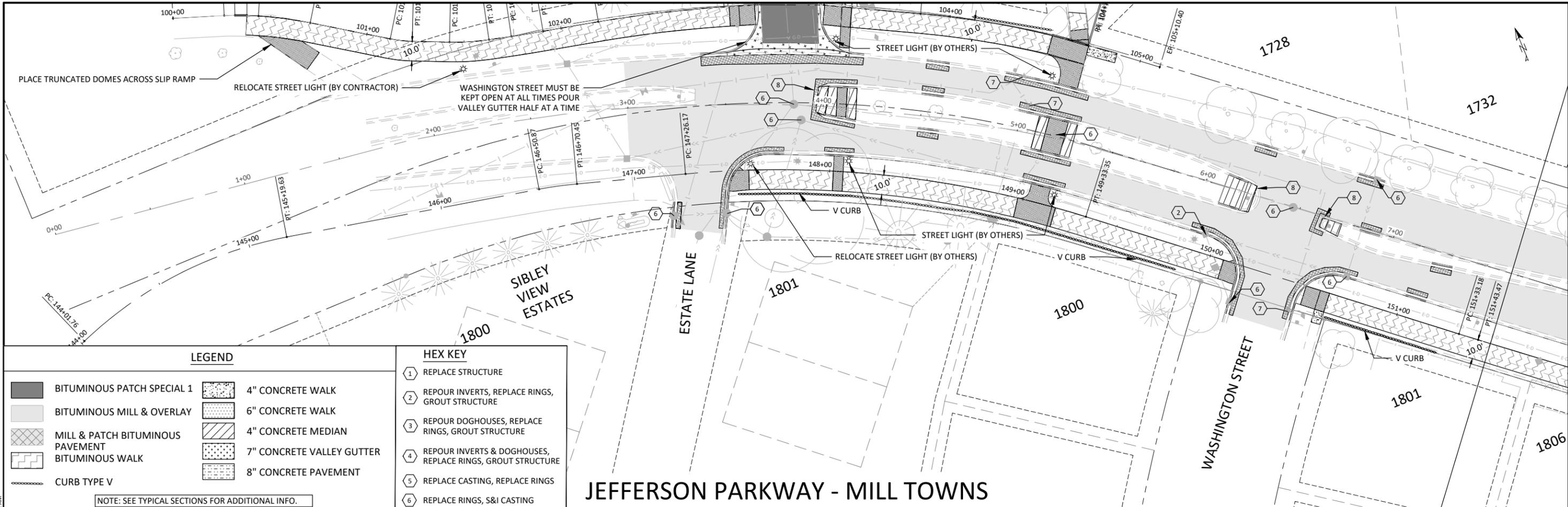
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NORTHFIELD, MINNESOTA
2026 JEFFERSON PKWY M&O AND MTST
PLAN & PROFILE
JEFFERSON PARKWAY TRAIL NW

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LEGEND

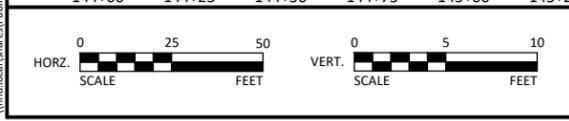
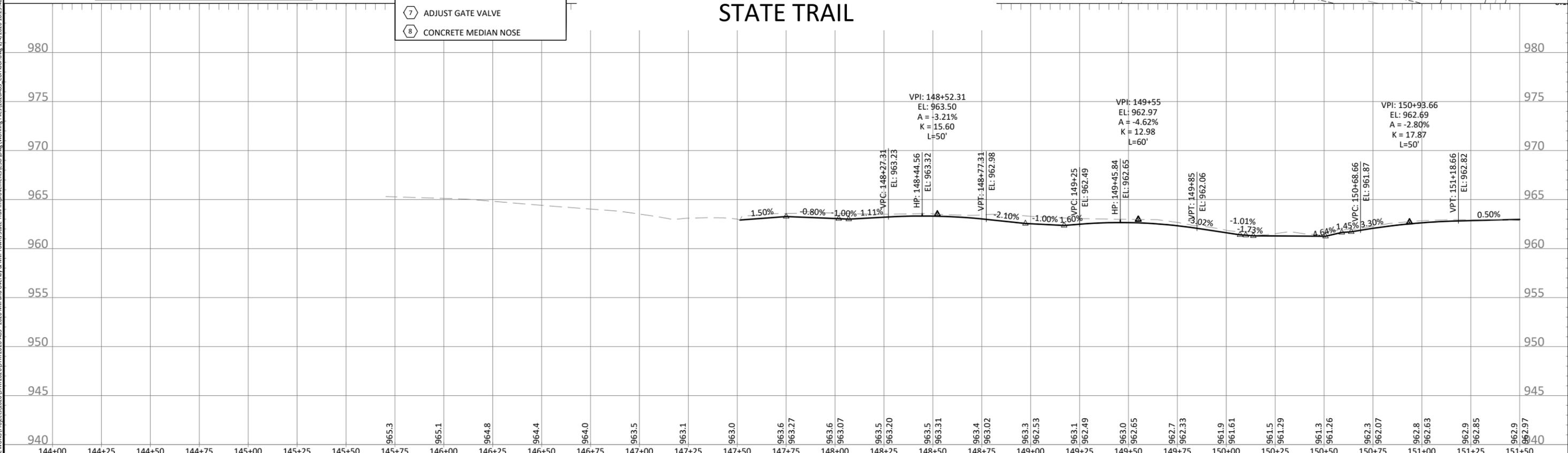
	BITUMINOUS PATCH SPECIAL 1		4" CONCRETE WALK
	BITUMINOUS MILL & OVERLAY		6" CONCRETE WALK
	MILL & PATCH BITUMINOUS PAVEMENT		4" CONCRETE MEDIAN
	BITUMINOUS WALK		7" CONCRETE VALLEY GUTTER
	CURB TYPE V		8" CONCRETE PAVEMENT

NOTE: SEE TYPICAL SECTIONS FOR ADDITIONAL INFO.

HEX KEY

1	REPLACE STRUCTURE
2	REPOUR INVERTS, REPLACE RINGS, GROUT STRUCTURE
3	REPOUR DOGHOUSES, REPLACE RINGS, GROUT STRUCTURE
4	REPOUR INVERTS & DOGHOUSES, REPLACE RINGS, GROUT STRUCTURE
5	REPLACE CASTING, REPLACE RINGS
6	REPLACE RINGS, S&I CASTING
7	ADJUST GATE VALVE
8	CONCRETE MEDIAN NOSE

JEFFERSON PARKWAY - MILL TOWNS STATE TRAIL



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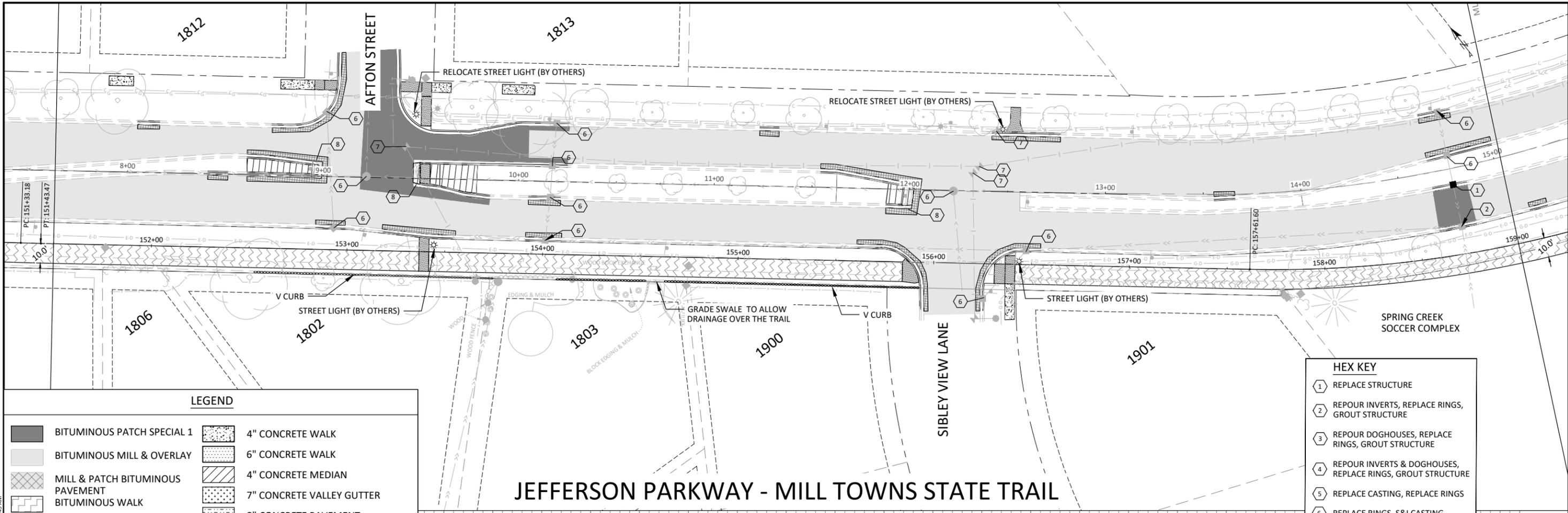


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58 OF 140

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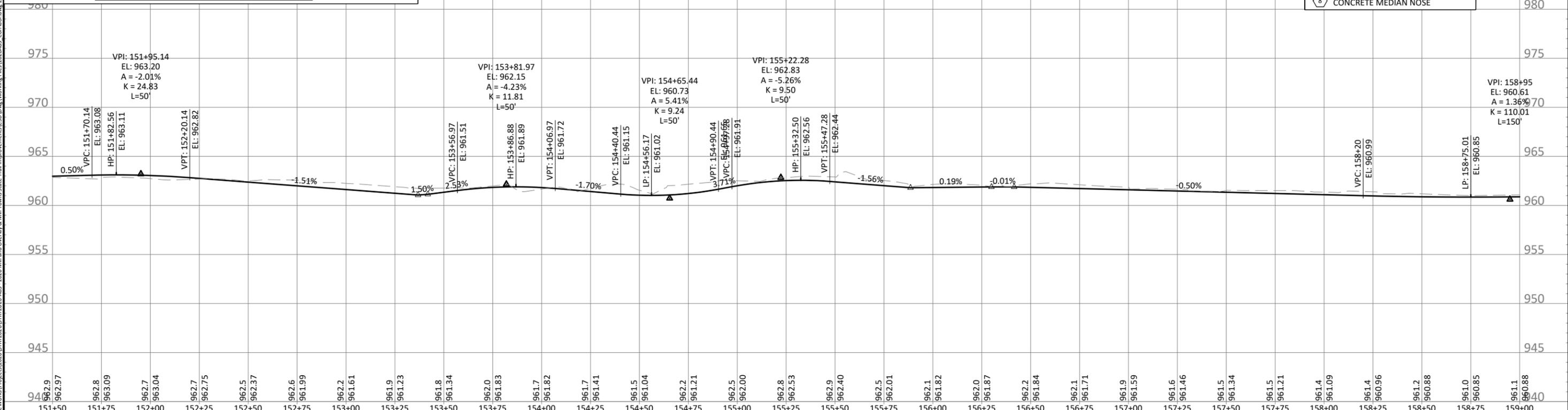
LEGEND

	BITUMINOUS PATCH SPECIAL 1		4" CONCRETE WALK
	BITUMINOUS MILL & OVERLAY		6" CONCRETE WALK
	MILL & PATCH BITUMINOUS PAVEMENT		4" CONCRETE MEDIAN
	BITUMINOUS WALK		7" CONCRETE VALLEY GUTTER
	CURB TYPE V		8" CONCRETE PAVEMENT

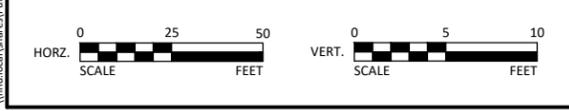
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HEX KEY

	1 REPLACE STRUCTURE
	2 REPOUR INVERTS, REPLACE RINGS, GROUT STRUCTURE
	3 REPOUR DOGHOUSES, REPLACE RINGS, GROUT STRUCTURE
	4 REPOUR INVERTS & DOGHOUSES, REPLACE RINGS, GROUT STRUCTURE
	5 REPLACE CASTING, REPLACE RINGS
	6 REPLACE RINGS, S&I CASTING
	7 ADJUST GATE VALVE
	8 CONCRETE MEDIAN NOSE



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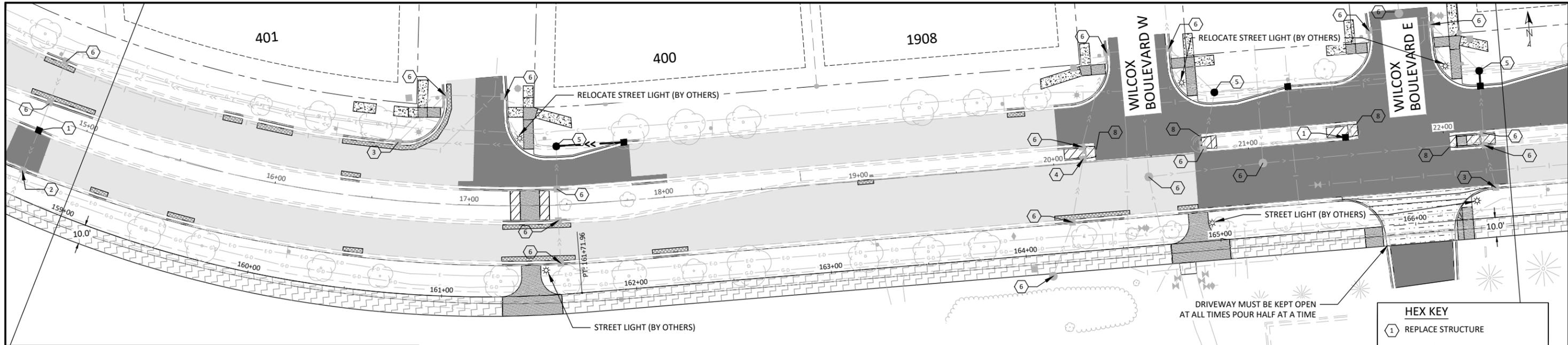
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NORTHFIELD, MINNESOTA
2026 JEFFERSON PKWY M&O AND MTST
PLAN & PROFILE
JEFFERSON PARKWAY MTST

SHEET C6.08
59 OF 140



LEGEND

	BITUMINOUS PATCH SPECIAL 1		4" CONCRETE WALK
	BITUMINOUS MILL & OVERLAY		6" CONCRETE WALK
	MILL & PATCH BITUMINOUS PAVEMENT		4" CONCRETE MEDIAN
	BITUMINOUS WALK		7" CONCRETE VALLEY GUTTER
	CURB TYPE V		8" CONCRETE PAVEMENT

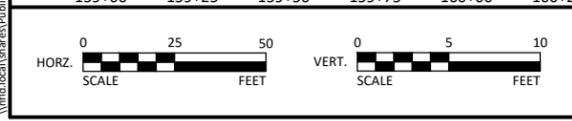
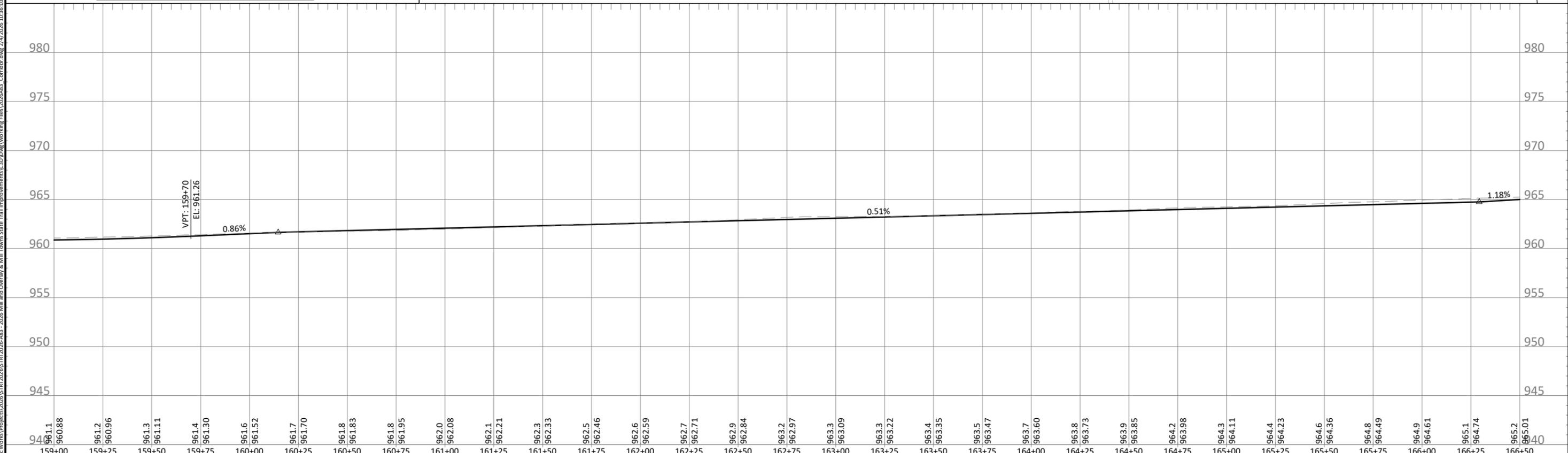
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SPRING CREEK SOCCER COMPLEX

JEFFERSON PARKWAY - MILL TOWNS STATE TRAIL

HEX KEY

- 1 REPLACE STRUCTURE
- 2 REPOUR INVERTS, REPLACE RINGS, GROUT STRUCTURE
- 3 REPOUR DOGHOUSES, REPLACE RINGS, GROUT STRUCTURE
- 4 REPOUR INVERTS & DOGHOUSES, REPLACE RINGS, GROUT STRUCTURE
- 5 REPLACE CASTING, REPLACE RINGS
- 6 REPLACE RINGS, S&I CASTING
- 7 ADJUST GATE VALVE
- 8 CONCRETE MEDIAN NOSE



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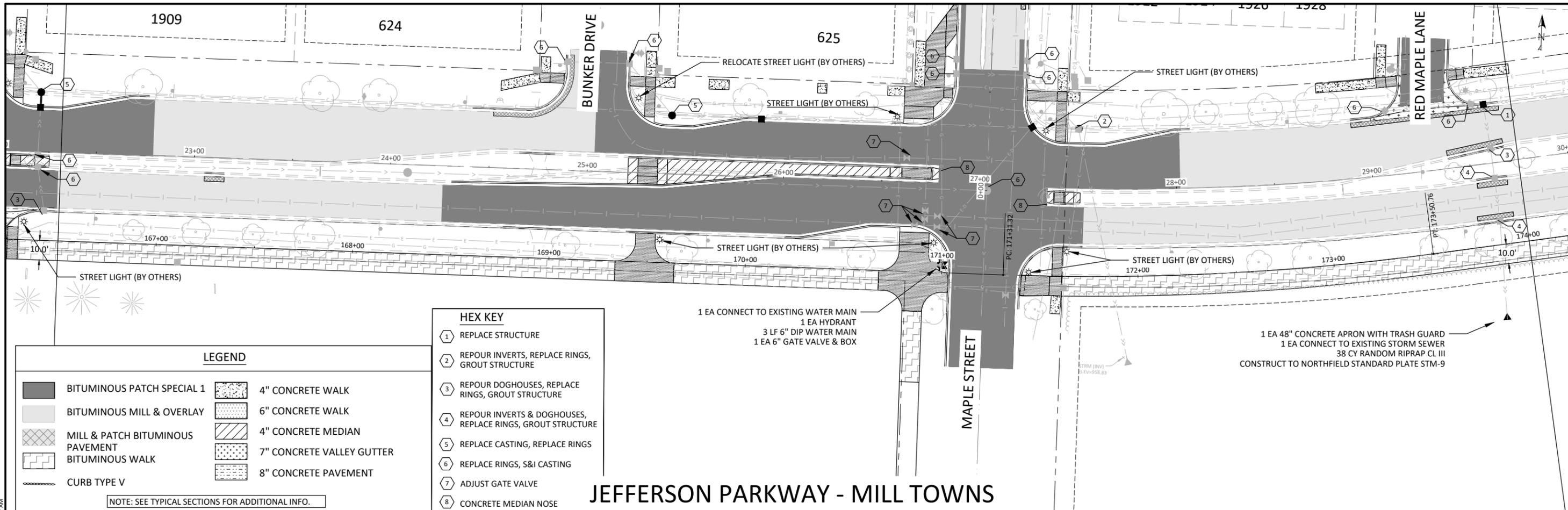


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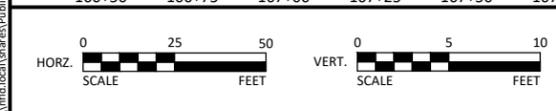
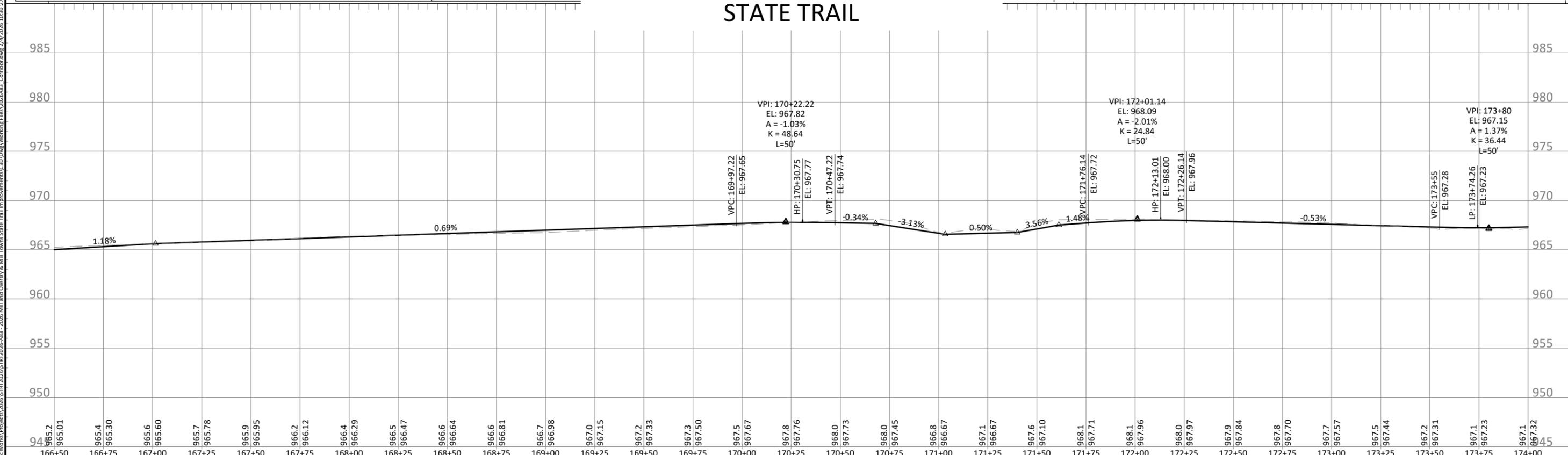
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60 OF 140

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JEFFERSON PARKWAY - MILL TOWNS STATE TRAIL



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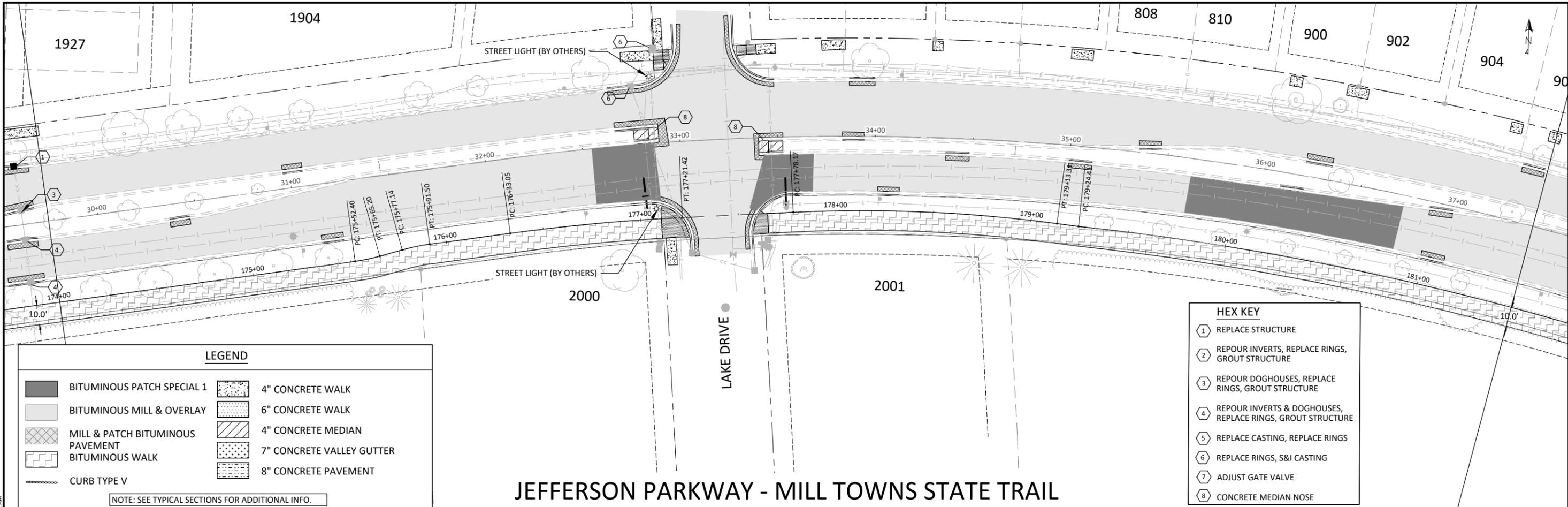


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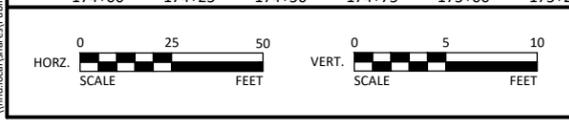
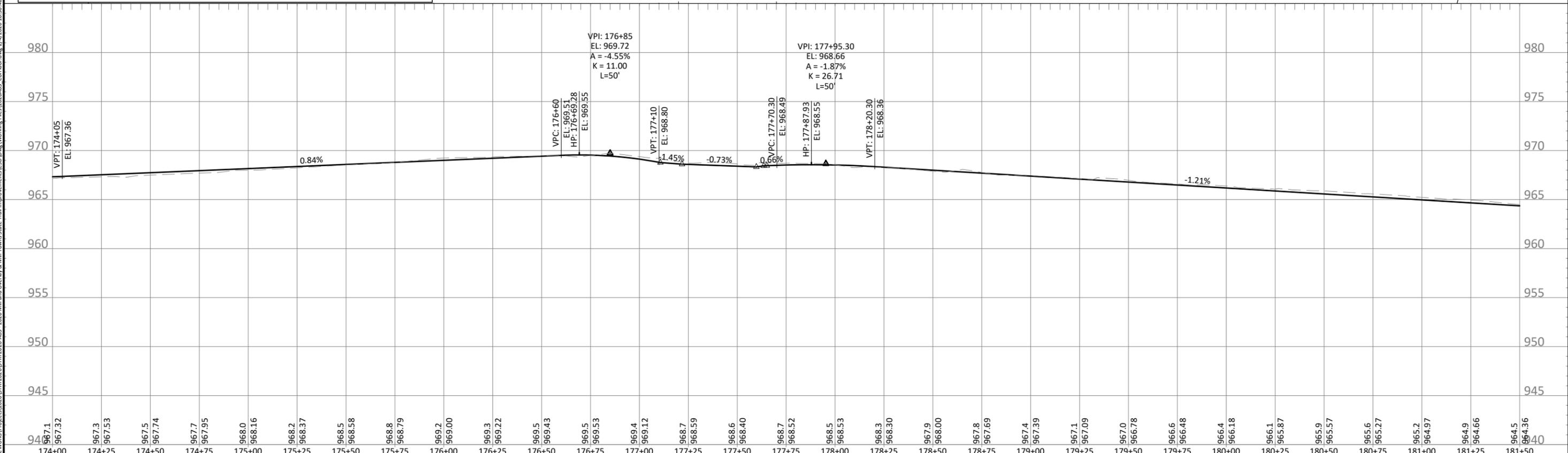
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	BITUMINOUS MILL & OVERLAY		6" CONCRETE WALK
	MILL & PATCH BITUMINOUS PAVEMENT		4" CONCRETE MEDIAN
	BITUMINOUS WALK		7" CONCRETE VALLEY GUTTER
	CURB TYPE V		8" CONCRETE PAVEMENT

NOTE: SEE TYPICAL SECTIONS FOR ADDITIONAL INFO.

HEX KEY

	1 REPLACE STRUCTURE
	2 REPOUR INVERTS, REPLACE RINGS, GROUT STRUCTURE
	3 REPOUR DOGHOUSES, REPLACE RINGS, GROUT STRUCTURE
	4 REPOUR INVERTS & DOGHOUSES, REPLACE RINGS, GROUT STRUCTURE
	5 REPLACE CASTING, REPLACE RINGS
	6 REPLACE RINGS, S&I CASTING
	7 ADJUST GATE VALVE
	8 CONCRETE MEDIAN NOSE

JEFFERSON PARKWAY - MILL TOWNS STATE TRAIL



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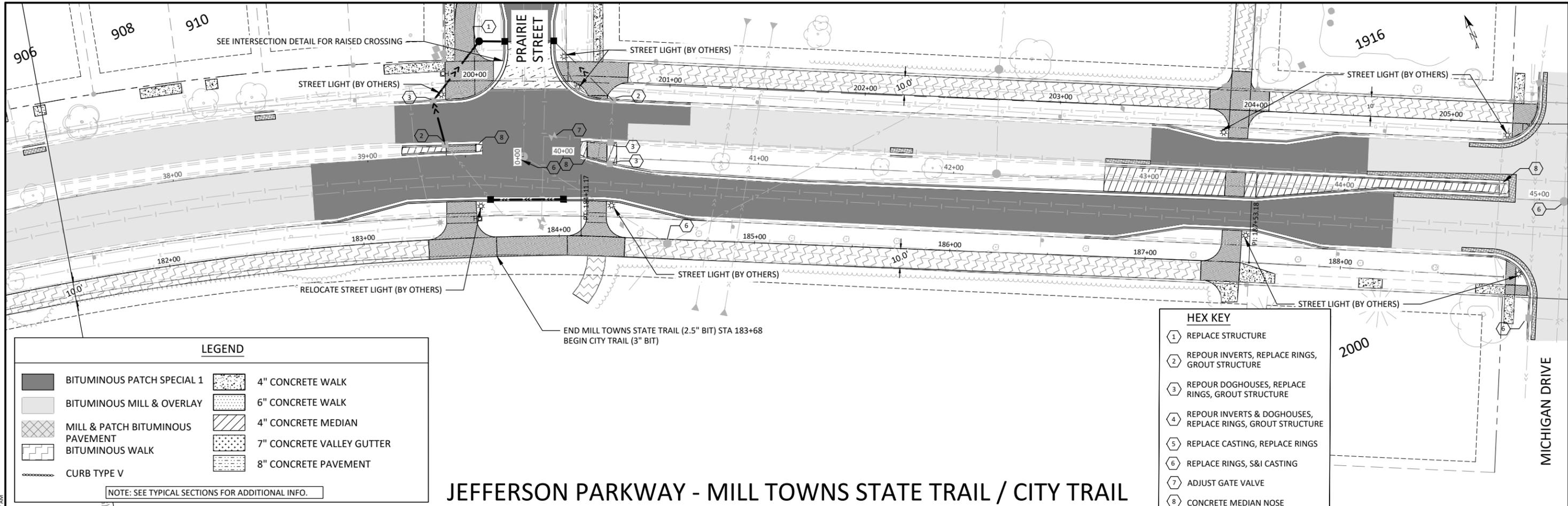


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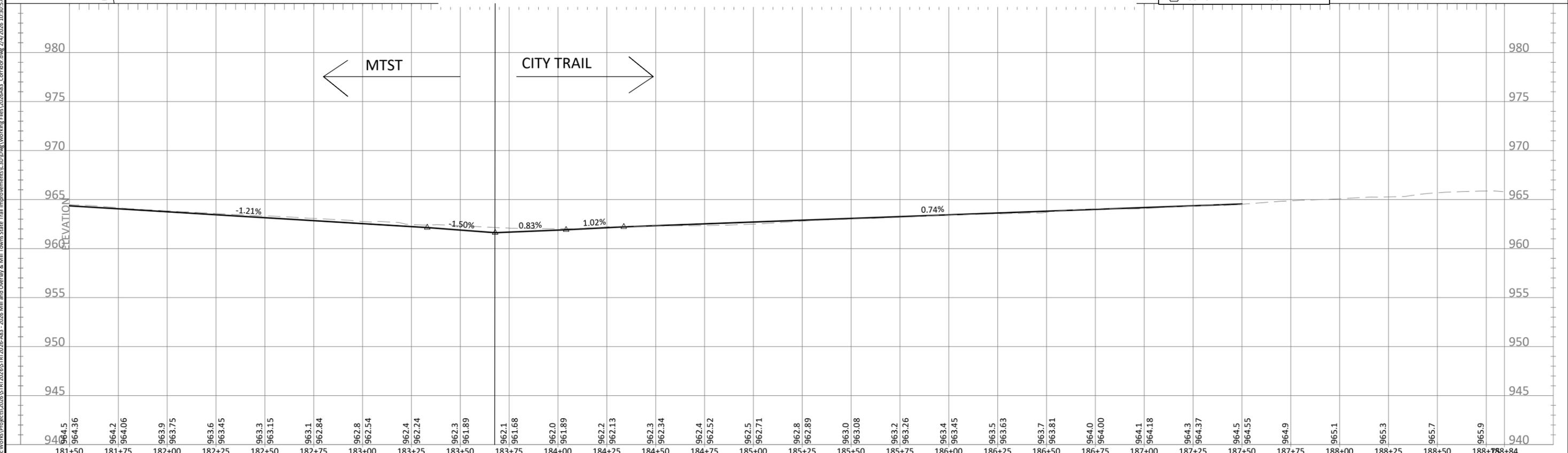
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JEFFERSON PARKWAY - MILL TOWNS STATE TRAIL / CITY TRAIL



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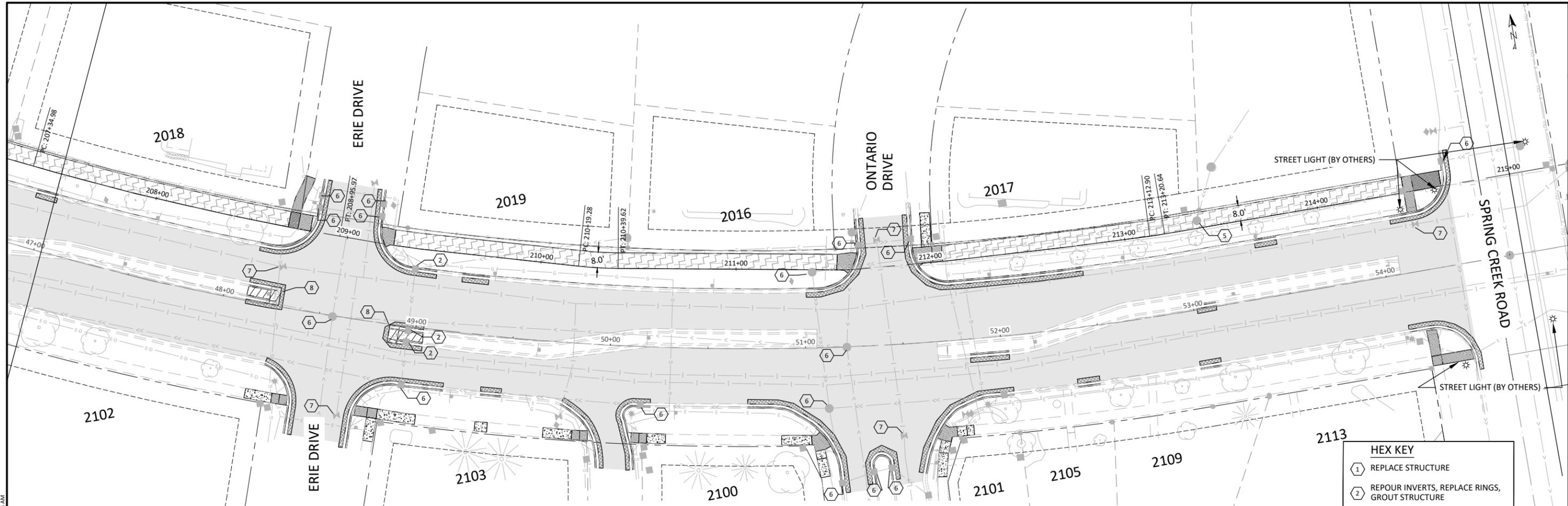


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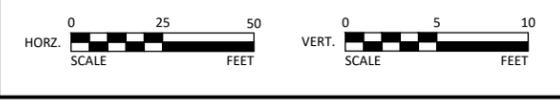
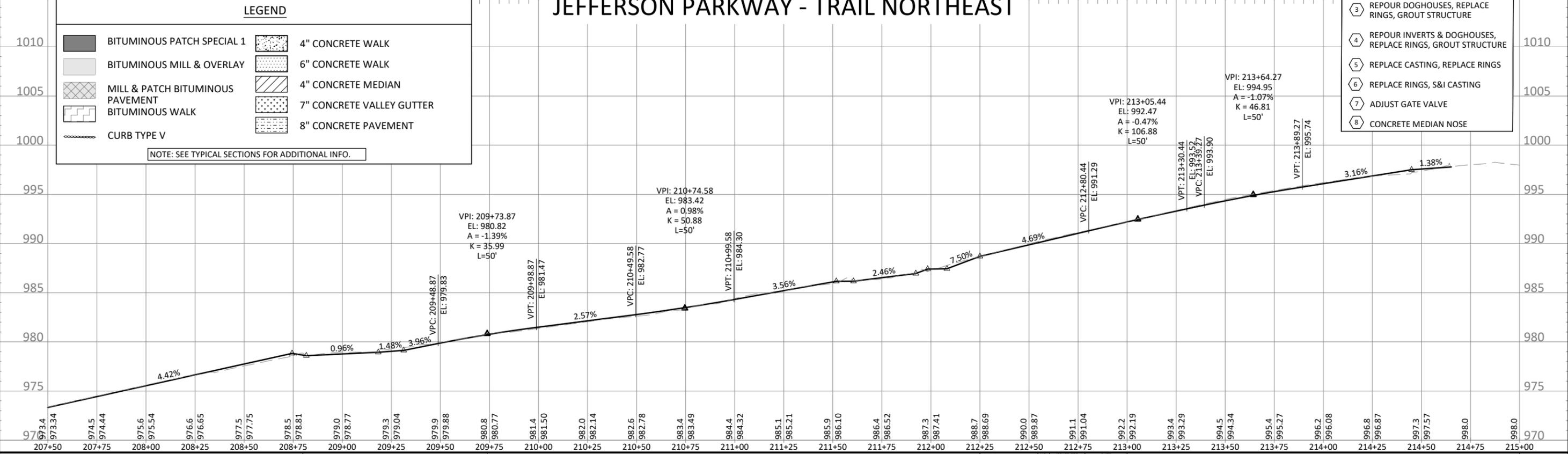


JEFFERSON PARKWAY - TRAIL NORTHEAST

HEX KEY	
1	REPLACE STRUCTURE
2	REPOUR INVERTS, REPLACE RINGS, GROUT STRUCTURE
3	REPOUR DOGHOUSES, REPLACE RINGS, GROUT STRUCTURE
4	REPOUR INVERTS & DOGHOUSES, REPLACE RINGS, GROUT STRUCTURE
5	REPLACE CASTING, REPLACE RINGS
6	REPLACE RINGS, S&I CASTING
7	ADJUST GATE VALVE
8	CONCRETE MEDIAN NOSE

LEGEND			
	BITUMINOUS PATCH SPECIAL 1		4" CONCRETE WALK
	BITUMINOUS MILL & OVERLAY		6" CONCRETE WALK
	MILL & PATCH BITUMINOUS PAVEMENT		4" CONCRETE MEDIAN
	BITUMINOUS WALK		7" CONCRETE VALLEY GUTTER
	CURB TYPE V		8" CONCRETE PAVEMENT

NOTE: SEE TYPICAL SECTIONS FOR ADDITIONAL INFO.



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LIC. NO. 45867 DATE XX/XX/XXXX



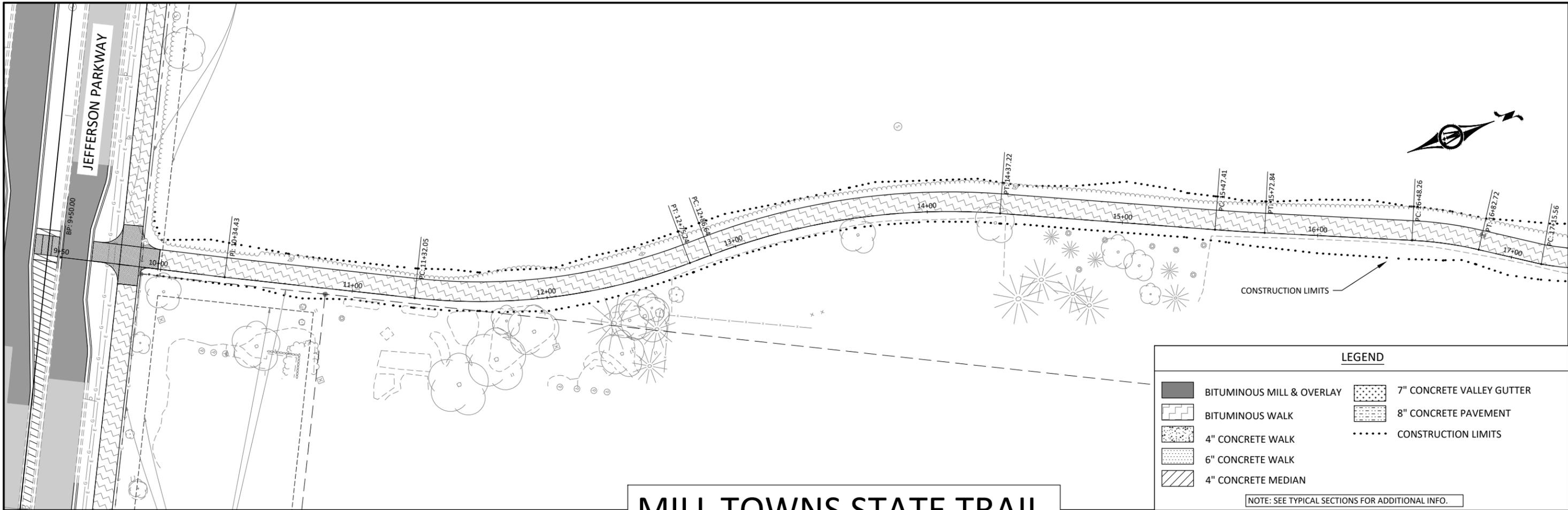
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NORTHFIELD, MINNESOTA
2026 JEFFERSON PKWY M&O AND MTST
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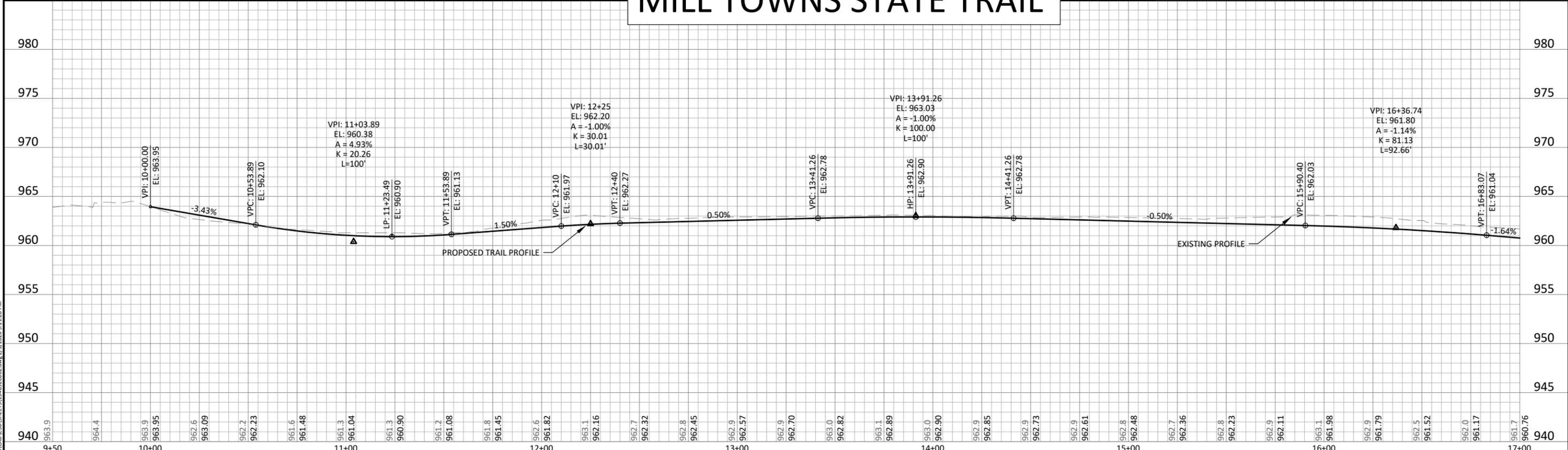


MILL TOWNS STATE TRAIL

LEGEND

- BITUMINOUS MILL & OVERLAY
- BITUMINOUS WALK
- 4" CONCRETE WALK
- 6" CONCRETE WALK
- 4" CONCRETE MEDIAN
- 7" CONCRETE VALLEY GUTTER
- 8" CONCRETE PAVEMENT
- CONSTRUCTION LIMITS

NOTE: SEE TYPICAL SECTIONS FOR ADDITIONAL INFO.



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JASON A. MALECHA, P.E.
LIC. NO. 57151 DATE MM/DD/YYYY



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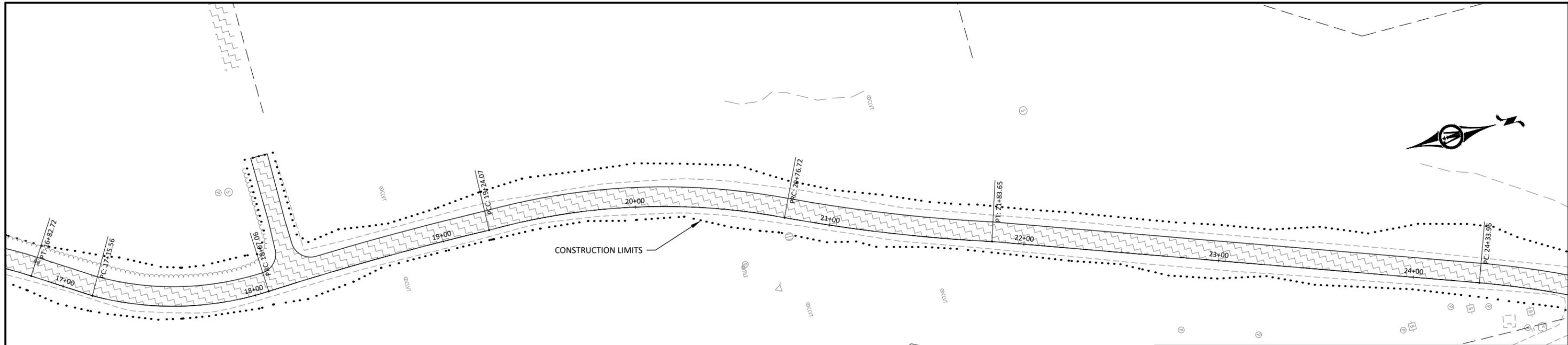
NORTHFIELD, MINNESOTA

2026 JEFFERSON PKWY M&O AND MTST IMPROVEMENTS

TRAIL PLAN & PROFILE

MILL TOWNS STATE TRAIL

SHEET **C6.15** OF 140

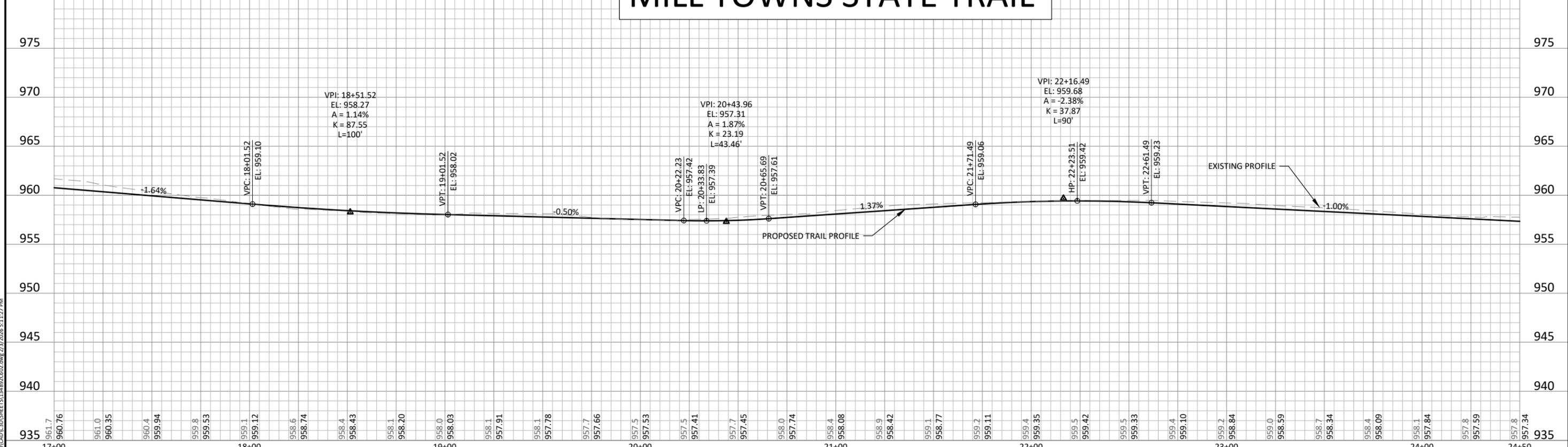


MILL TOWNS STATE TRAIL

LEGEND

- BITUMINOUS MILL & OVERLAY
- BITUMINOUS WALK
- 4" CONCRETE WALK
- 6" CONCRETE WALK
- 4" CONCRETE MEDIAN
- 7" CONCRETE VALLEY GUTTER
- 8" CONCRETE PAVEMENT
- CONSTRUCTION LIMITS

NOTE: SEE TYPICAL SECTIONS FOR ADDITIONAL INFO.



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 LIC. NO. 57151 DATE MM/DD/YYYY



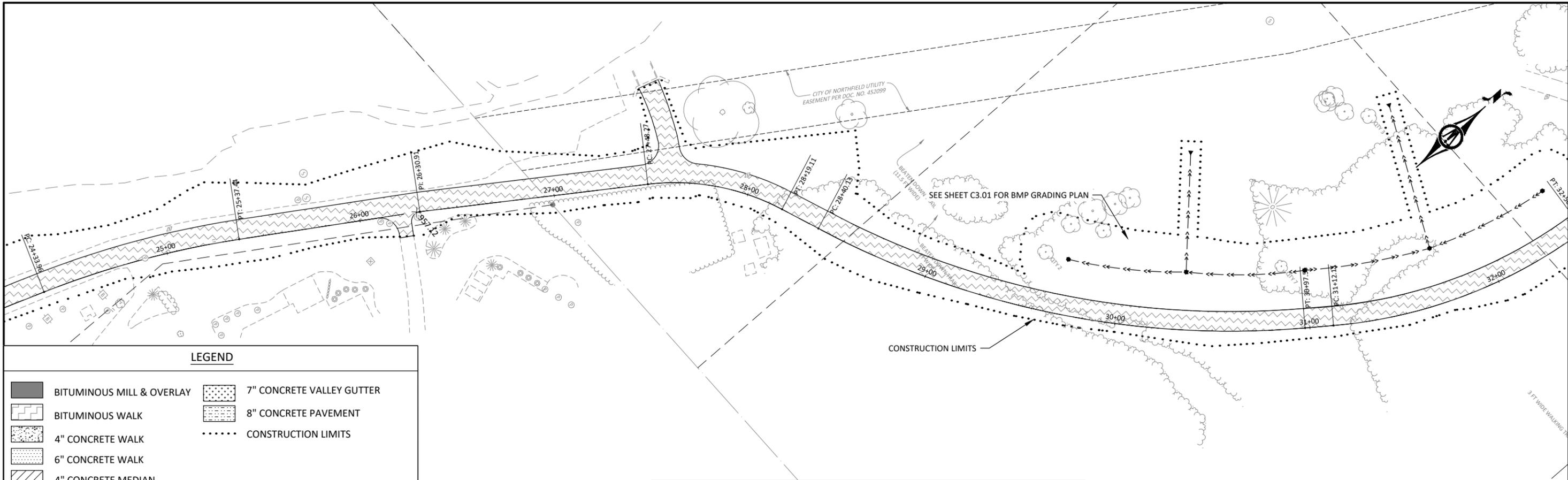
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NORTHFIELD, MINNESOTA
 2026 JEFFERSON PKWY M&O AND MTST IMPROVEMENTS
 TRAIL PLAN & PROFILE
 MILL TOWNS STATE TRAIL

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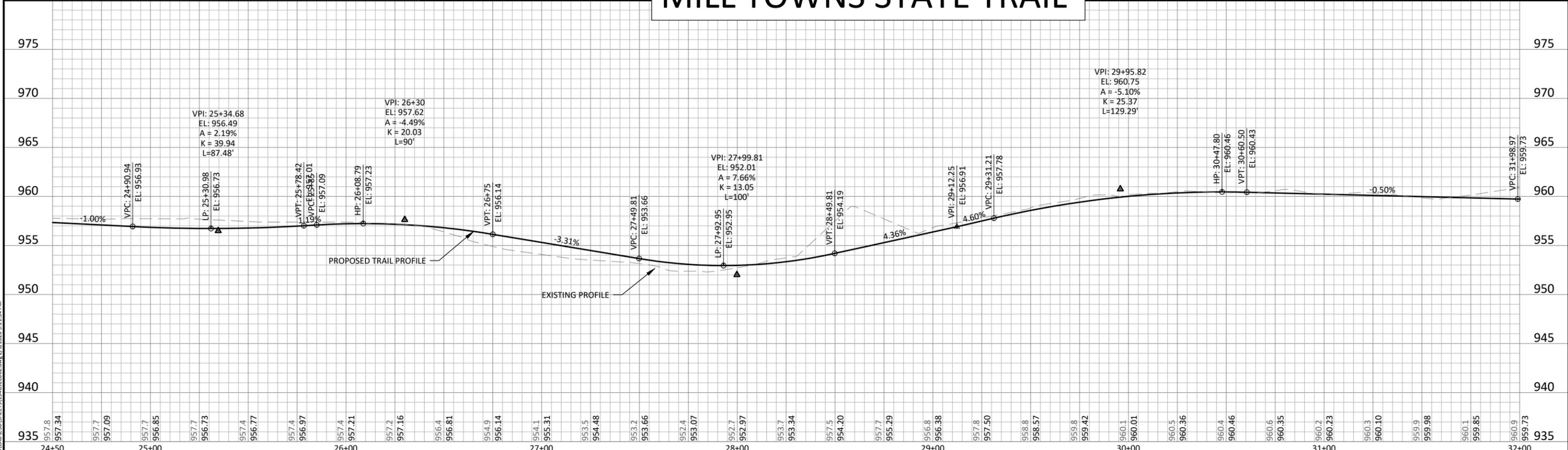


LEGEND

	BITUMINOUS MILL & OVERLAY		7" CONCRETE VALLEY GUTTER
	BITUMINOUS WALK		8" CONCRETE PAVEMENT
	4" CONCRETE WALK		CONSTRUCTION LIMITS
	6" CONCRETE WALK		
	4" CONCRETE MEDIAN		

NOTE: SEE TYPICAL SECTIONS FOR ADDITIONAL INFO.

MILL TOWNS STATE TRAIL



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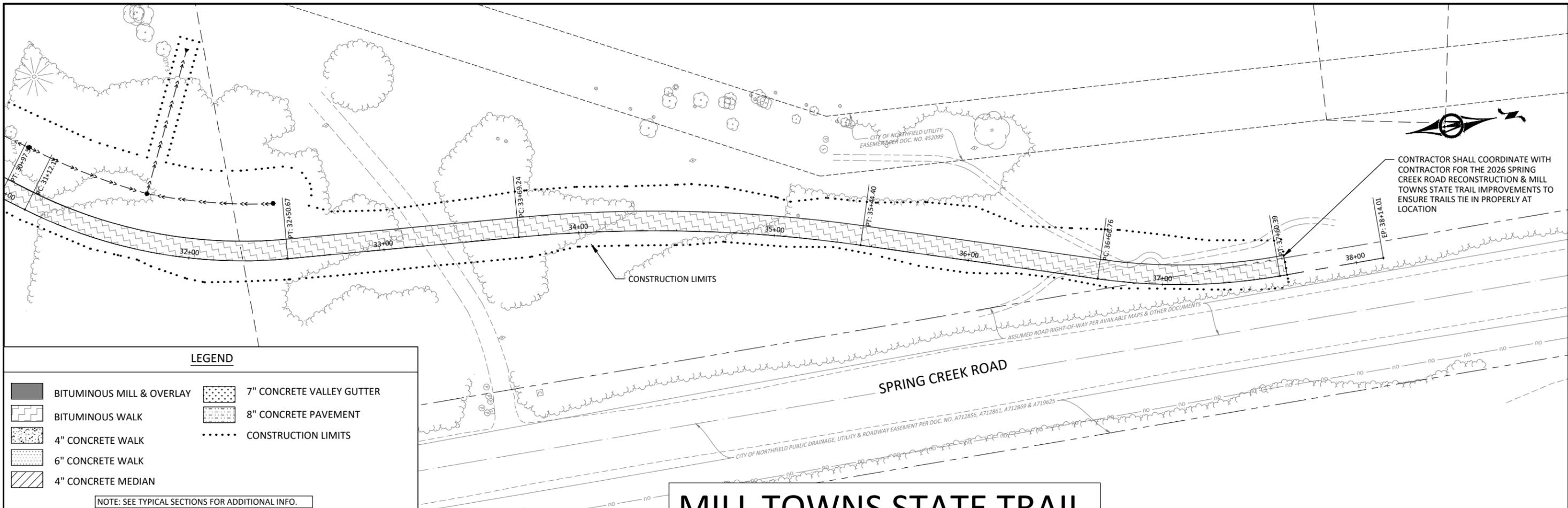
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MILL TOWNS STATE TRAIL

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68 OF 140

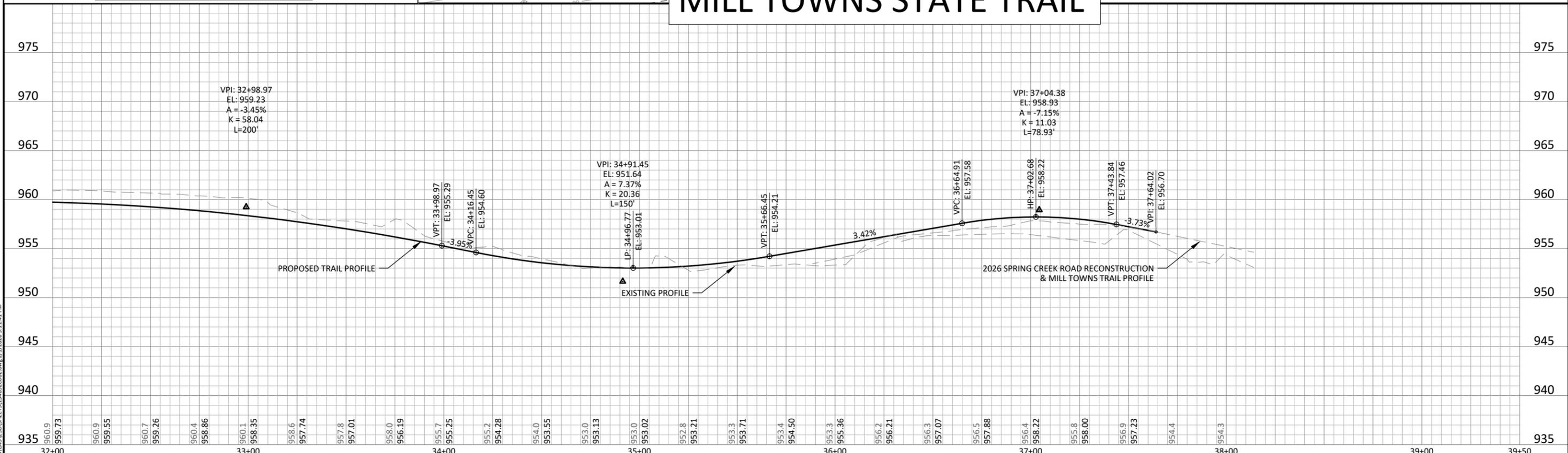


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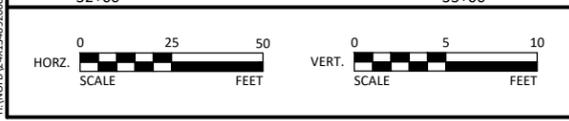
	BITUMINOUS MILL & OVERLAY	7" CONCRETE VALLEY GUTTER
	BITUMINOUS WALK	8" CONCRETE PAVEMENT
4" CONCRETE WALK		
6" CONCRETE WALK		CONSTRUCTION LIMITS
4" CONCRETE MEDIAN		

NOTE: SEE TYPICAL SECTIONS FOR ADDITIONAL INFO.

MILL TOWNS STATE TRAIL



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JASON A. MALECHA, P.E.
LIC. NO. 57151 DATE MM/DD/YYYY



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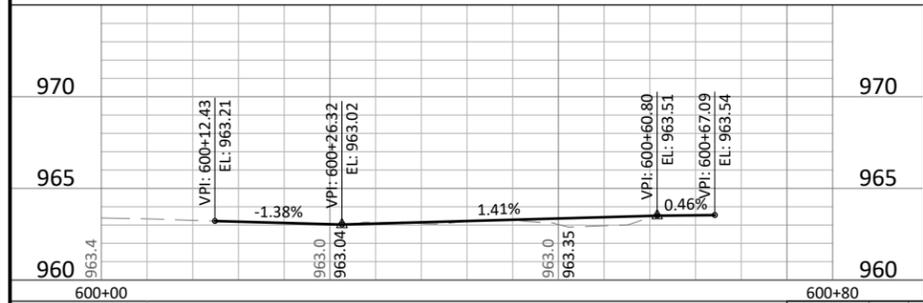


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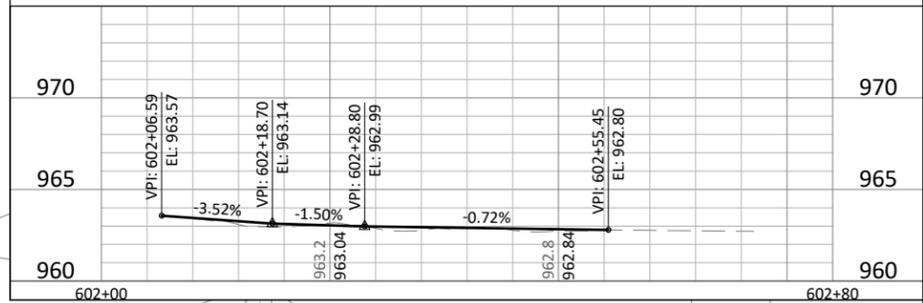
NORTHFIELD, MINNESOTA
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TRAIL PLAN & PROFILE
MILL TOWNS STATE TRAIL

SHEET C6.18
69 OF 140

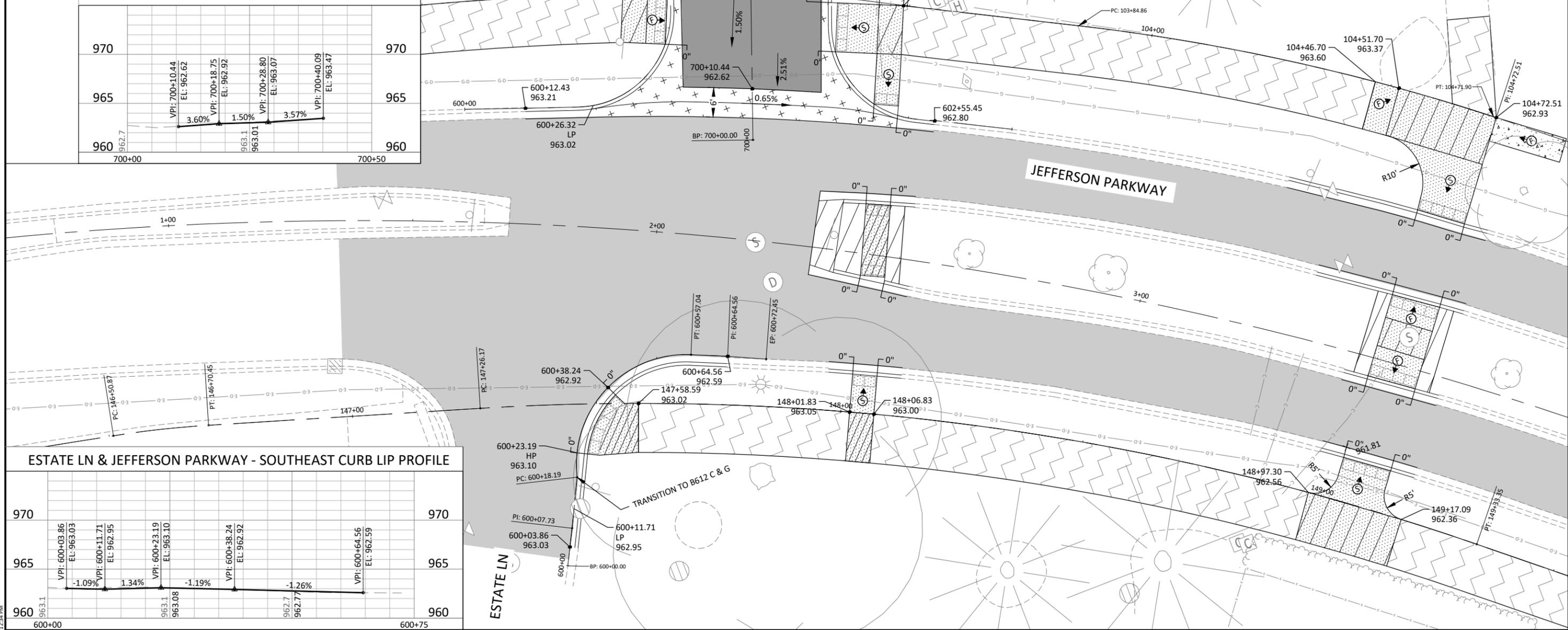
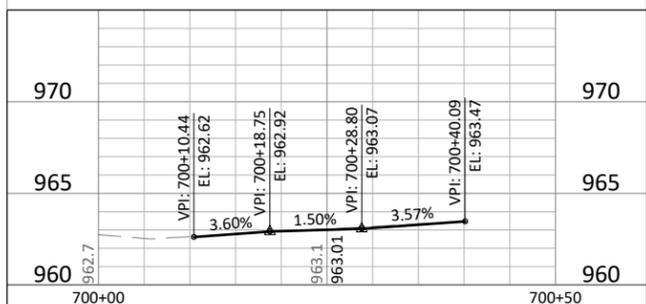
WASHINGTON ST & JEFFERSON PARKWAY - NORTHWEST CURB BACK PROFILE



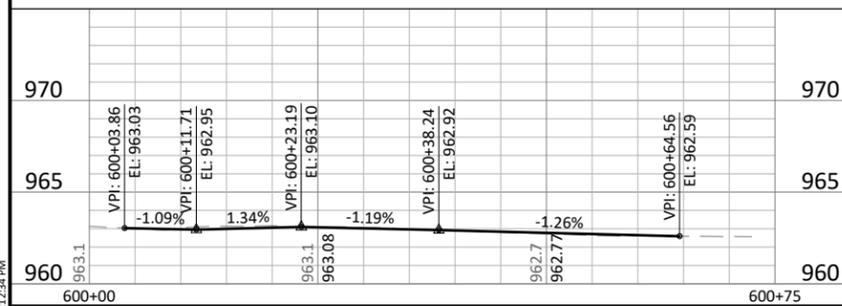
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WASHINGTON ST CENTERLINE PROFILE



ESTATE LN & JEFFERSON PARKWAY - SOUTHEAST CURB LIP PROFILE

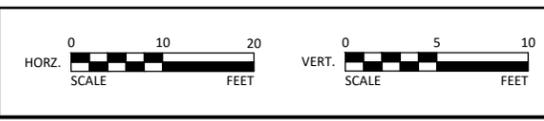


INTERSECTION DETAILS LEGEND

- LANDING AREA - 4' X 4' MIN. DIMENSIONS AND 1.0% OPTIMUM (2.0% MAXIMUM) SLOPE IN ALL DIRECTIONS
- TRANSITION PANEL(S) - TO BE USED FOR TRANSITIONING THE CROSS-SLOPE AND WIDTH OF A RAMP TO THE EXISTING WALK CROSS-SLOPE. RATE OF TRANSITION SHOULD BE 0.5% PER 1 LINEAR FOOT OF WALK.
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- X.XX% DRAINAGE FLOW ARROW AND SLOPE
- ANTICIPATED SIDEWALK SLOPE DIRECTION
- CONSTRUCT CONCRETE CURB & GUTTER
- X" CURB HEIGHT
- TRUNCATED DOMES (SEE MNDOT STANDARD PLATE 7038)

- NOTES:
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 - ALL CURB TAPERS SHALL BE 3' TO FULL HEIGHT CURB UNLESS NOTED OTHERWISE.

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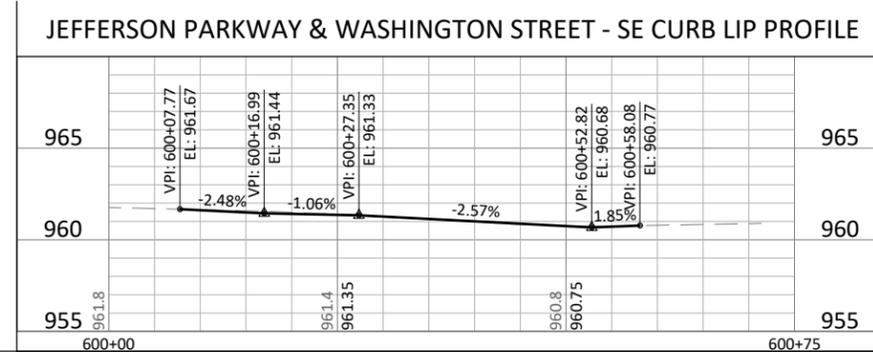
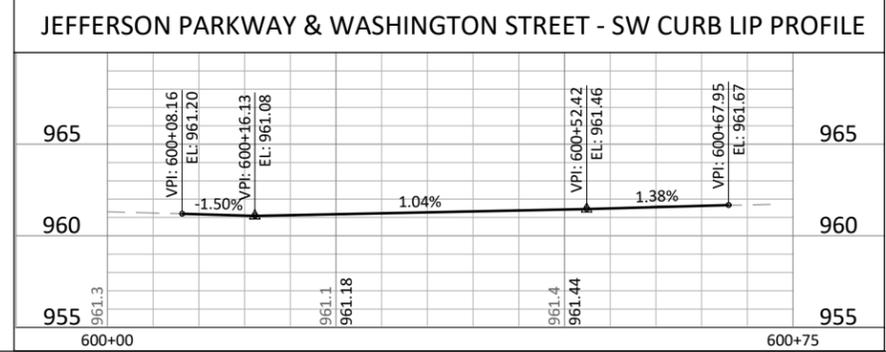
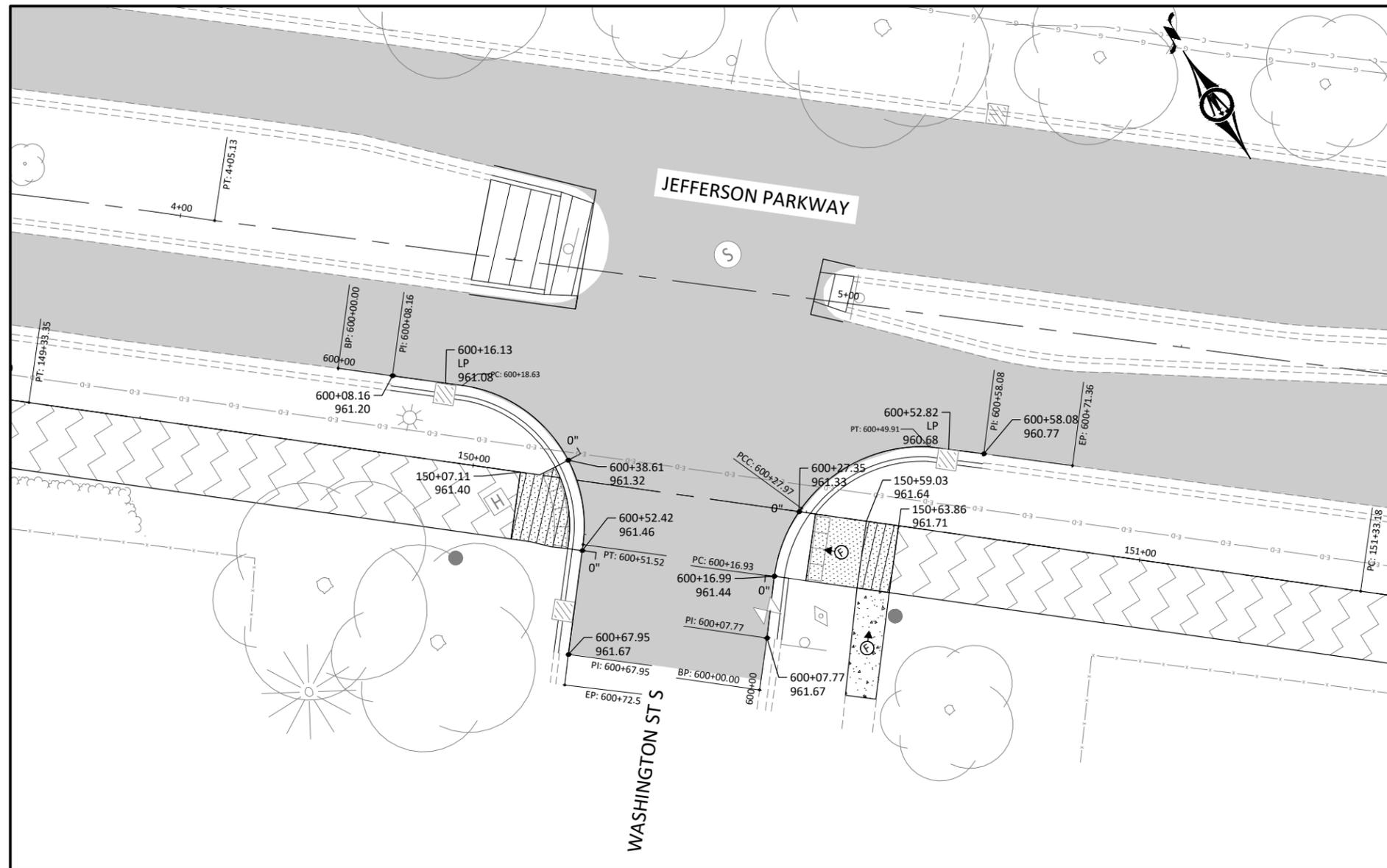
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NORTHFIELD, MINNESOTA
2026 JEFFERSON PKWY M&O AND MTST IMPROVEMENTS
INTERSECTION DETAILS
JEFFERSON PARKWAY

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OF
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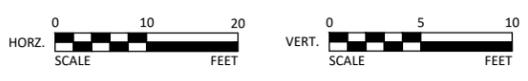


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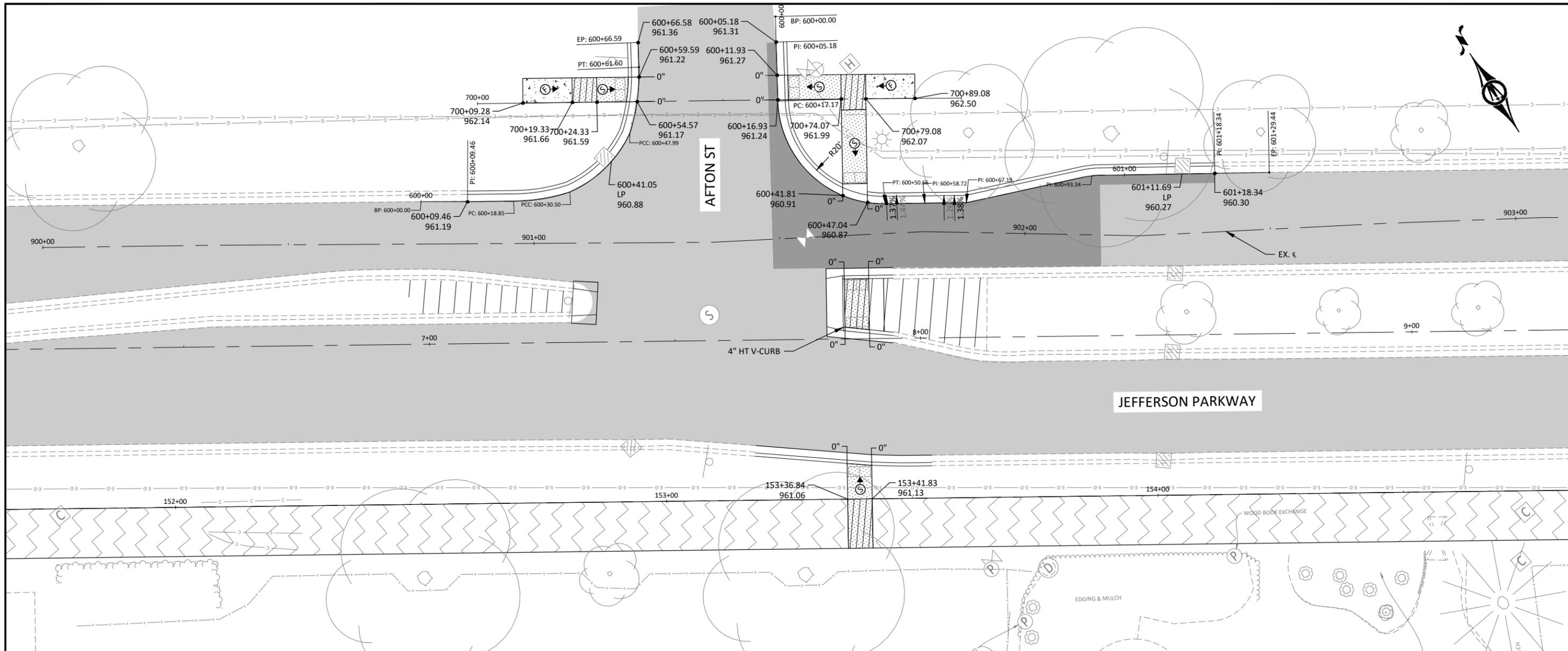
NORTHFIELD, MINNESOTA

2026 JEFFERSON PKWY M&O AND MTST IMPROVEMENTS

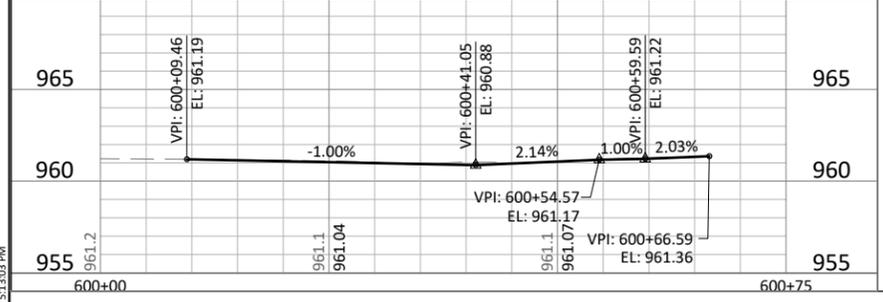
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JEFFERSON PARKWAY

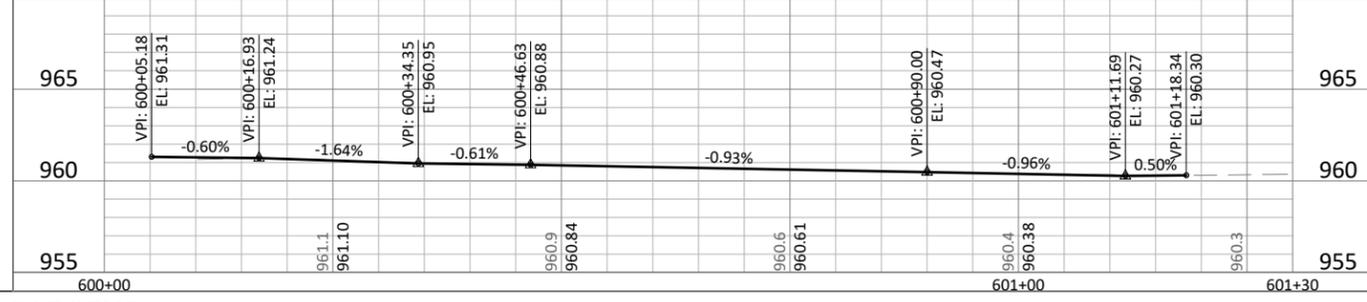
SHEET
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JEFFERSON PARKWAY & AFTON STREET - NORTHWEST CURB LIP PROFILE



JEFFERSON PARKWAY & AFTON STREET - NORTHEAST CURB LIP PROFILE

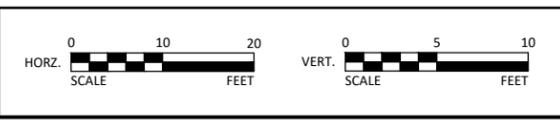


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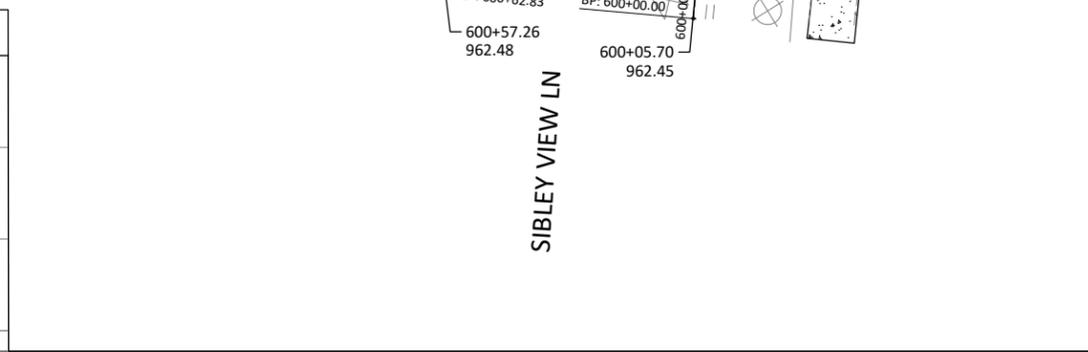
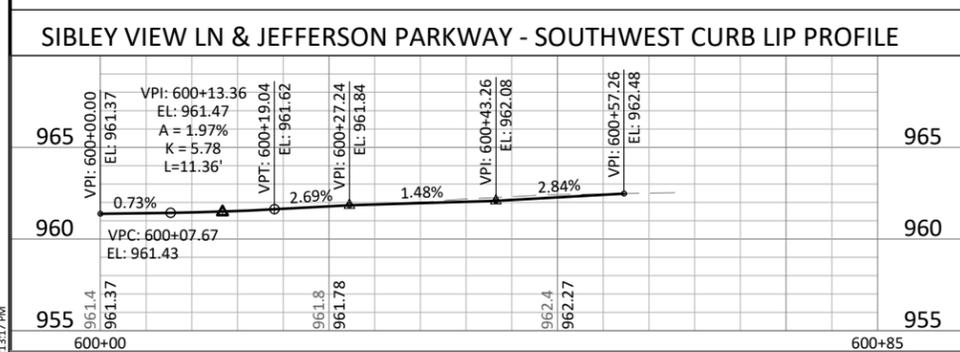
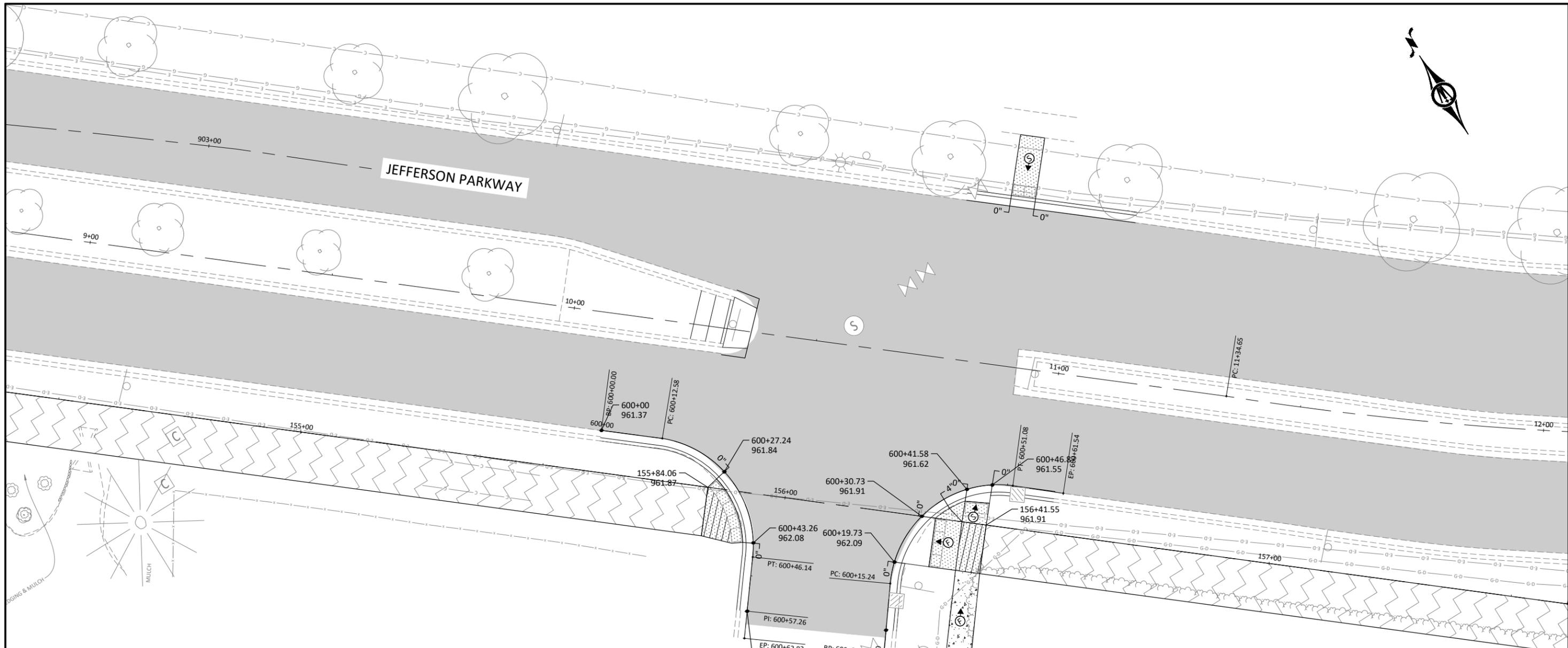
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INTERSECTION DETAILS
JEFFERSON PARKWAY

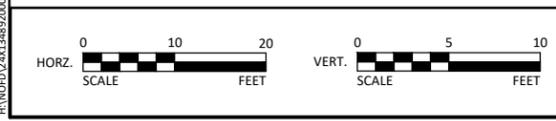
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INTERSECTION DETAILS LEGEND

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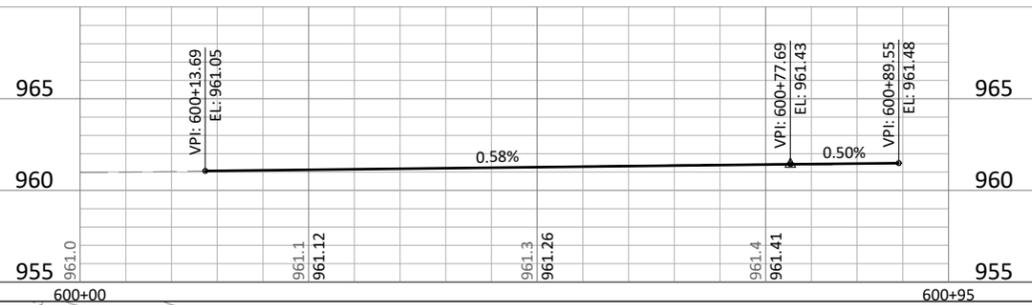
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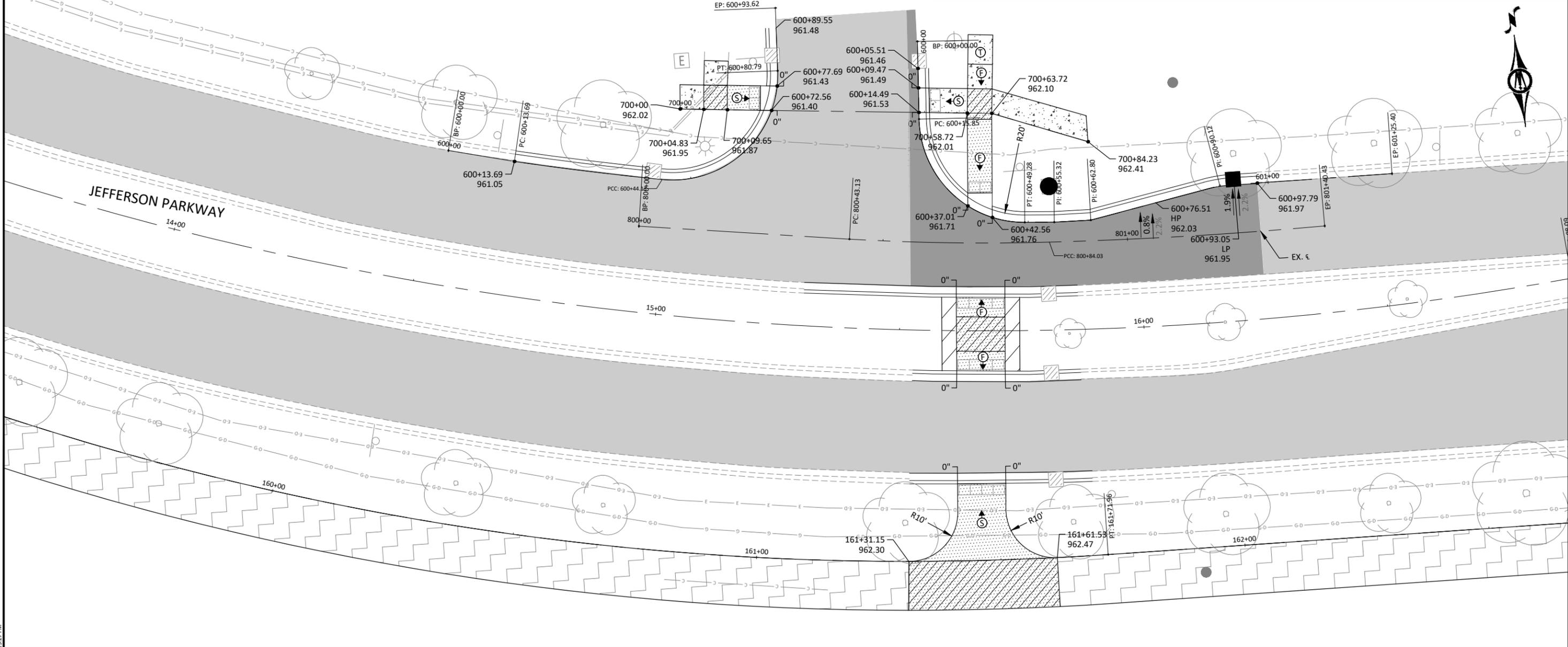
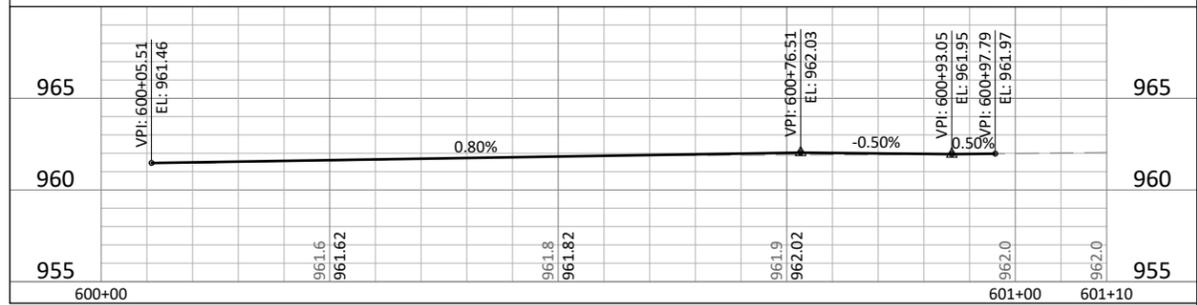
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JEFFERSON PARKWAY & BUNKER DRIVE - NORTHWEST CURB LIP PROFILE



JEFFERSON PARKWAY & BUNKER DRIVE - NORTHEAST CURB LIP PROFILE

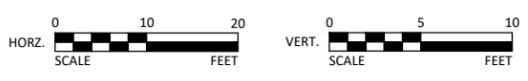


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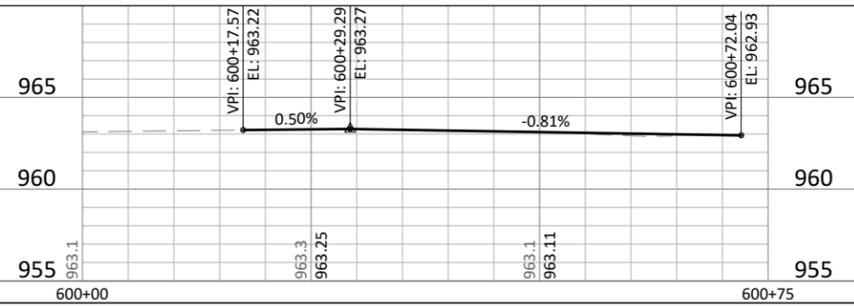
NORTHFIELD, MINNESOTA

2026 JEFFERSON PKWY M&O AND MTST IMPROVEMENTS

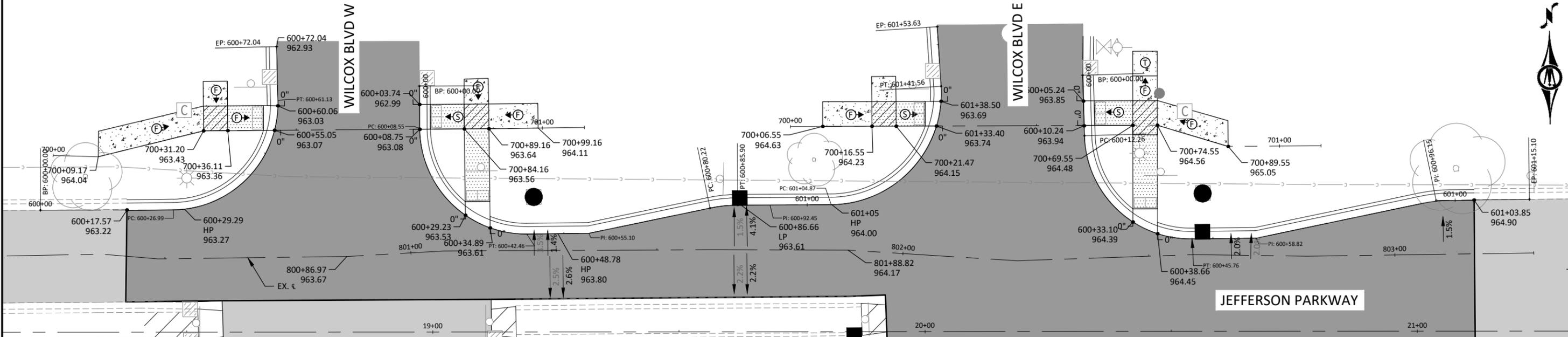
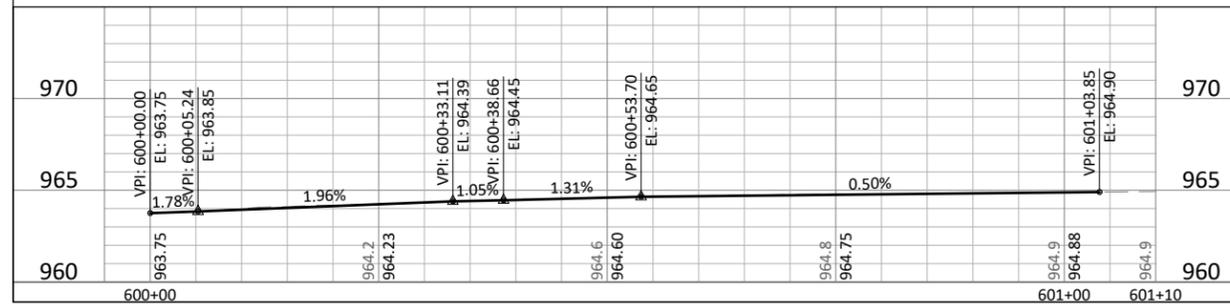
INTERSECTION DETAILS
JEFFERSON PARKWAY

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JEFFERSON PARKWAY & WILCOX BLVD W - NW CURB LIP PROFILE



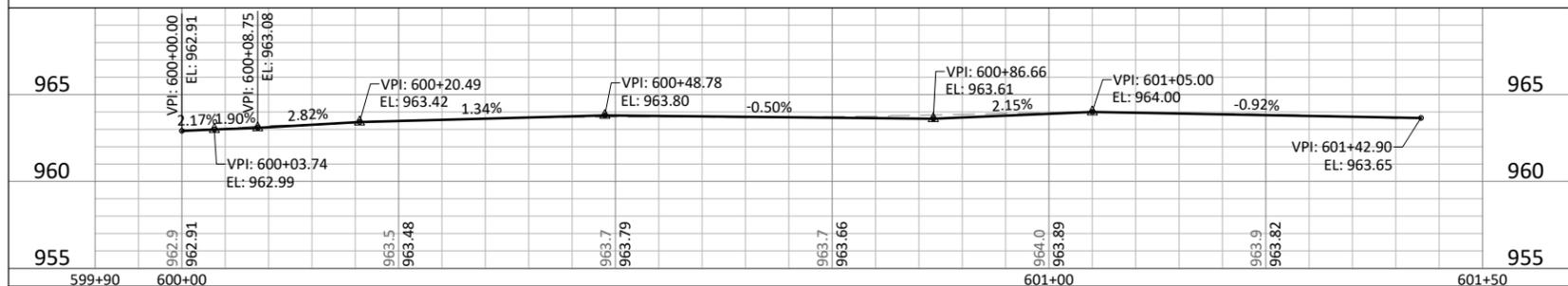
JEFFERSON PARKWAY & WILCOX BLVD E - NORTHEAST CURB LIP PROFILE



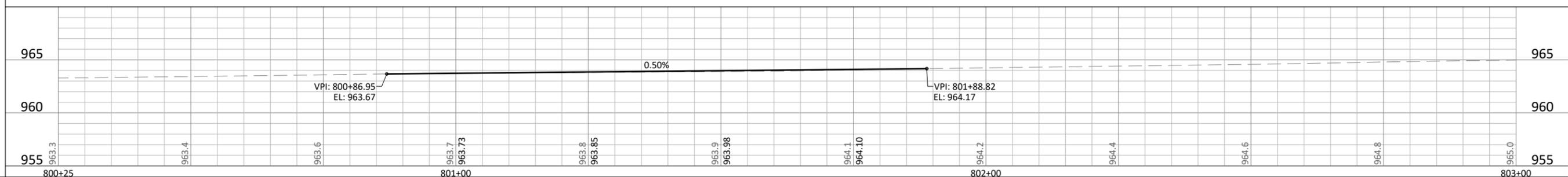
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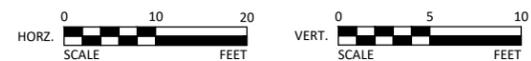
JEFFERSON PARKWAY & WILCOX BLVD W & E - NORTH CURB LIP PROFILE



JEFFERSON PARKWAY - PROPOSED CENTERLINE PROFILE



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JASON A. MALECHA, P.E.
LIC. NO. 57151 DATE MM/DD/YYYY



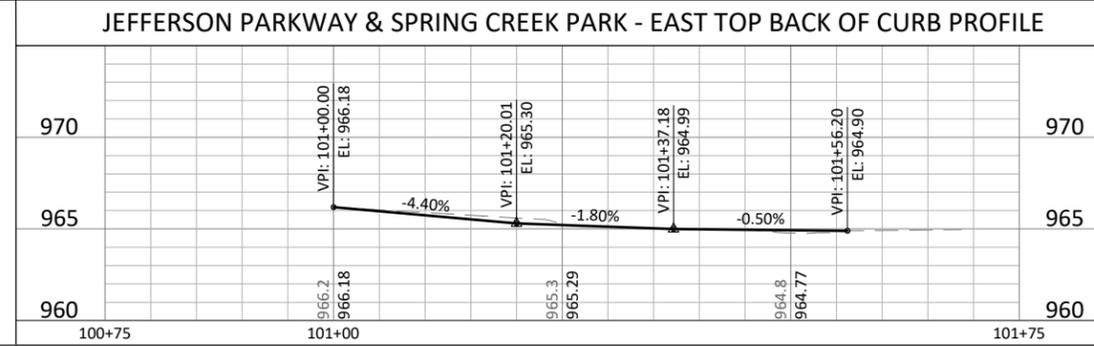
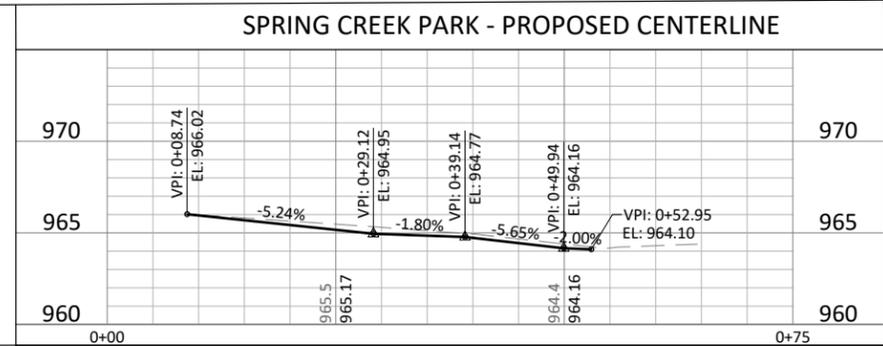
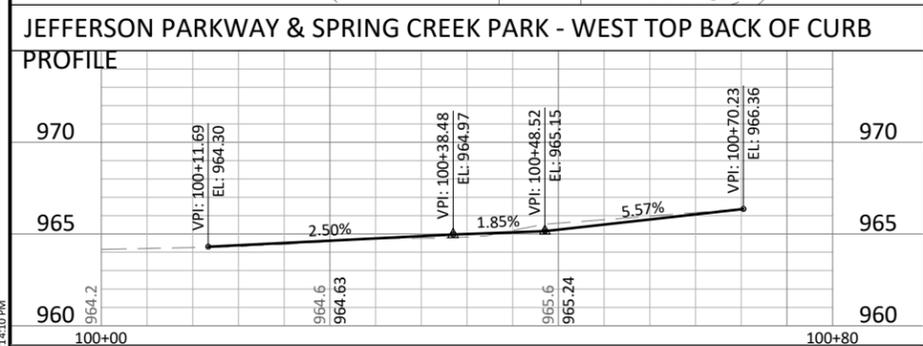
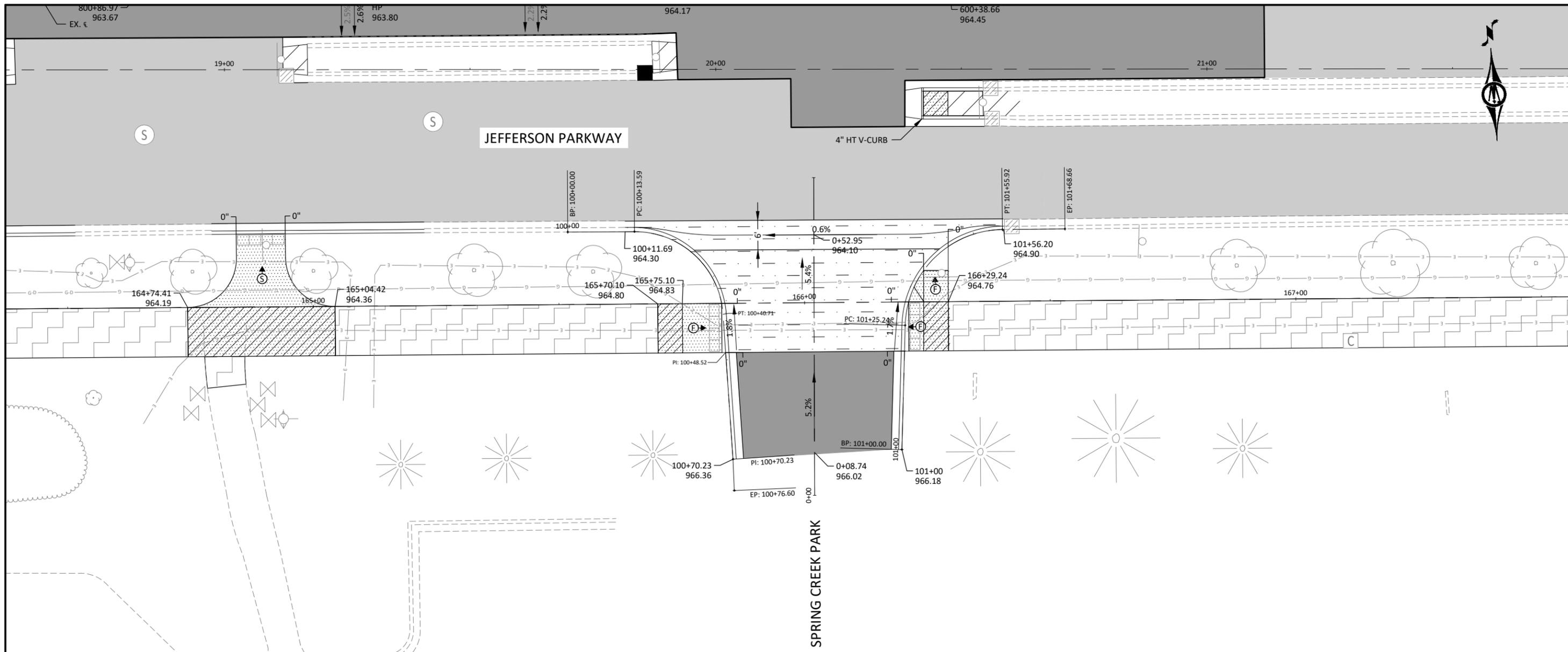
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NORTHFIELD, MINNESOTA
2026 JEFFERSON PKWY M&O AND MTST IMPROVEMENTS
INTERSECTION DETAILS
JEFFERSON PARKWAY

SHEET
C6.24
75
OF
140

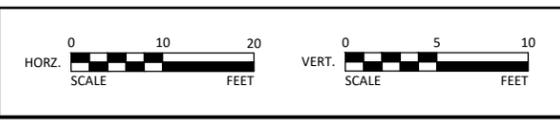


INTERSECTION DETAILS LEGEND

- LANDING AREA - 4' X 4' MIN. DIMENSIONS AND 1.0% OPTIMUM (2.0% MAXIMUM) SLOPE IN ALL DIRECTIONS
- TRANSITION PANEL(S) - TO BE USED FOR TRANSITIONING THE CROSS-SLOPE AND WIDTH OF A RAMP TO THE EXISTING WALK CROSS-SLOPE. RATE OF TRANSITION SHOULD BE 0.5% PER 1 LINEAR FOOT OF WALK.
- INDICATES PEDESTRIAN RAMP - SLOPE SHALL BE 4.0% OPTIMUM (5.0% MAXIMUM) IN THE DIRECTION SHOWN AND CROSS SLOPE SHALL BE 1.5% OPTIMUM (2.0% MAX.)
- INDICATES PEDESTRIAN RAMP - SLOPE SHALL BE 7.0% OPTIMUM (5.0% MINIMUM AND 8.3% MAXIMUM) IN THE DIRECTION SHOWN AND CROSS SLOPE SHALL BE 1.5% OPTIMUM (2.0% MAX.)
- DRAINAGE FLOW ARROW AND SLOPE
- ANTICIPATED SIDEWALK SLOPE DIRECTION
- CONSTRUCT CONCRETE CURB & GUTTER
- CURB HEIGHT
- TRUNCATED DOMES (SEE MnDOT STANDARD PLATE 7038)

- NOTES:**
1. ALL TOP OF CURB ELEVATIONS GIVEN ON THE INTERSECTION DETAILS (INCLUDING THOSE GIVEN AT PEDESTRIAN RAMP CONTROL POINTS) REPRESENT FULL HEIGHT TOP OF DESIGN B6 (6") UNLESS NOTED OTHERWISE. THE CURB HEIGHT THROUGH DRIVEWAYS AND PEDESTRIAN RAMPS SHALL BE CONSTRUCTED PER THE DETAILS IN THIS PLAN SET.
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 3. ALL CURB TAPERS SHALL BE 3' TO FULL HEIGHT CURB UNLESS NOTED OTHERWISE.

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LIC. NO. 57151 DATE MM/DD/YYYY



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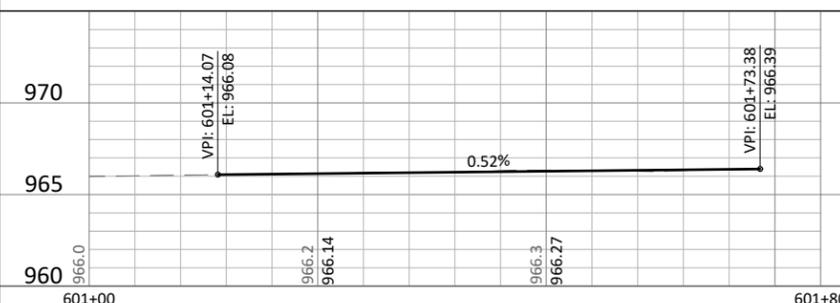


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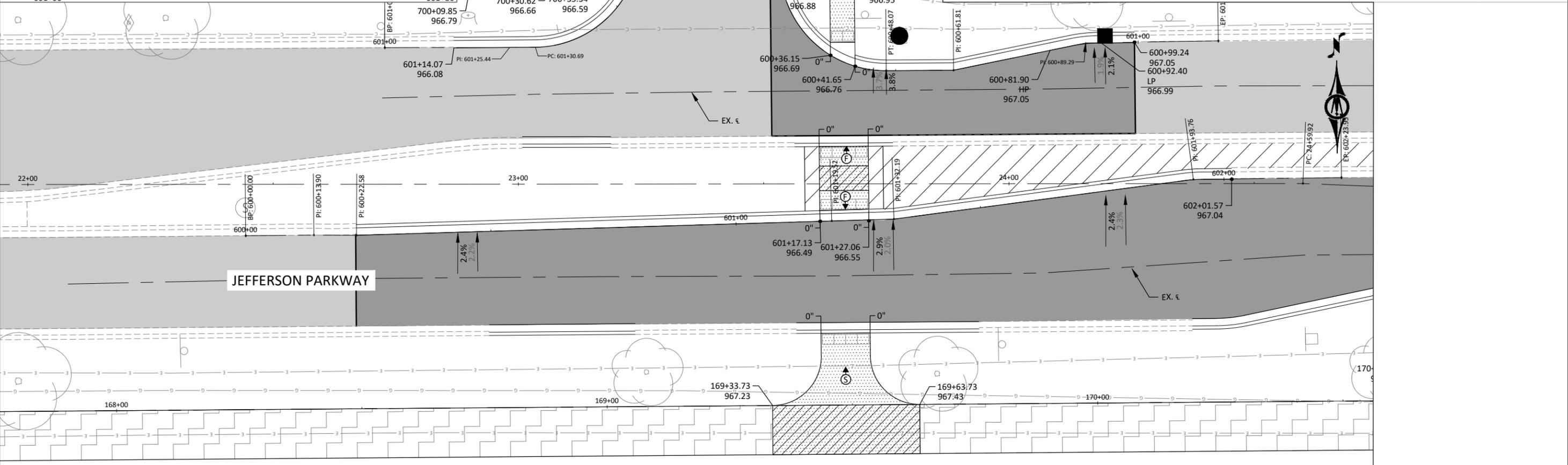
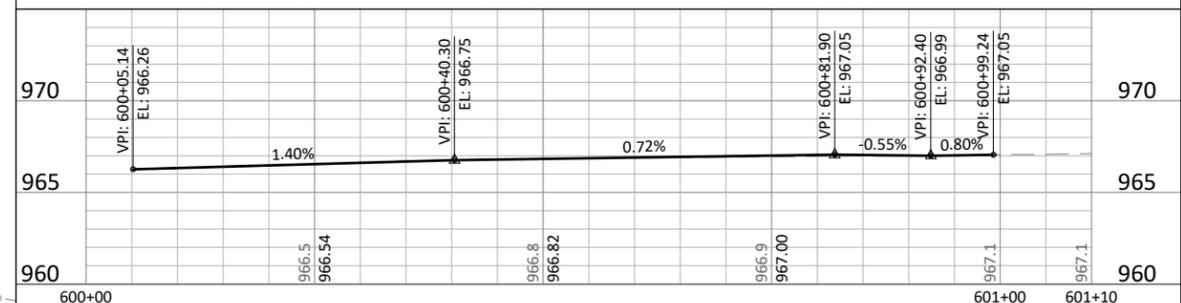
NORTHFIELD, MINNESOTA
2026 JEFFERSON PKWY M&O AND MTST IMPROVEMENTS
INTERSECTION DETAILS
JEFFERSON PARKWAY

SHEET
C6.25
76
OF
140

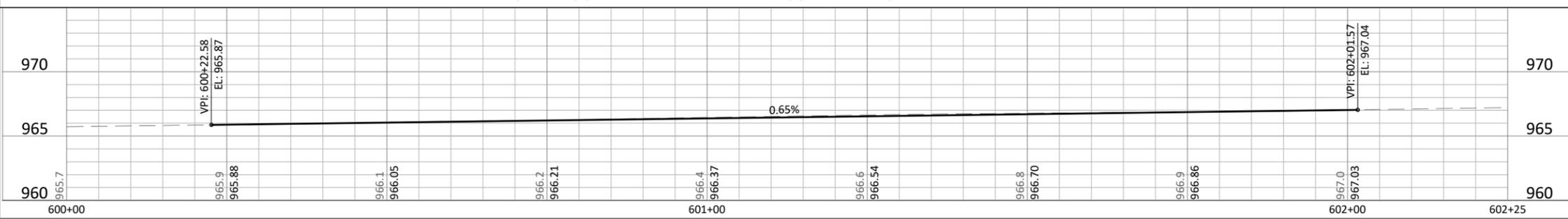
JEFFERSON PARKWAY & BUNKER DRIVE - NW LIP CURB LIP PROFILE



JEFFERSON PARKWAY & BUNKER DRIVE - NORTHEAST CURB LIP PROFILE



JEFFERSON PARKWAY MEDIAN - CURB LIP PROFILE

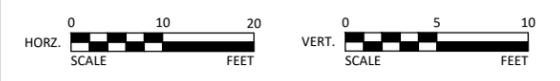


INTERSECTION DETAILS LEGEND

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- CURB HEIGHT
- TRUNCATED DOMES (SEE MnDOT STANDARD PLATE 7038)

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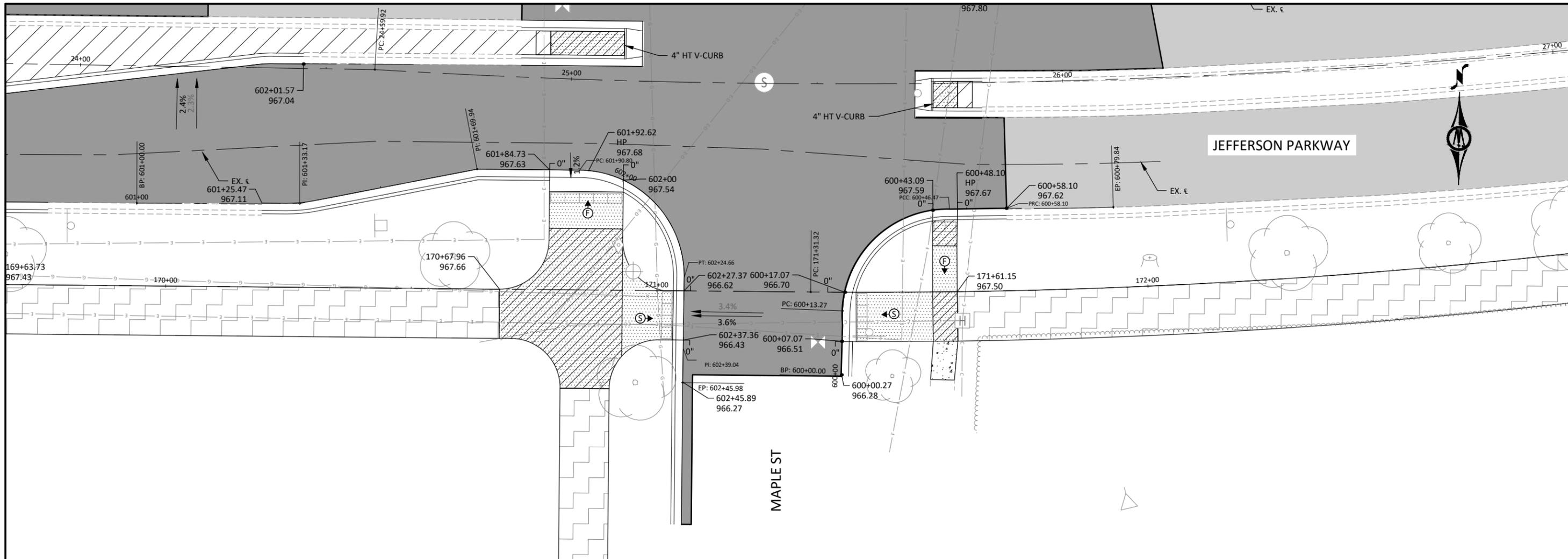
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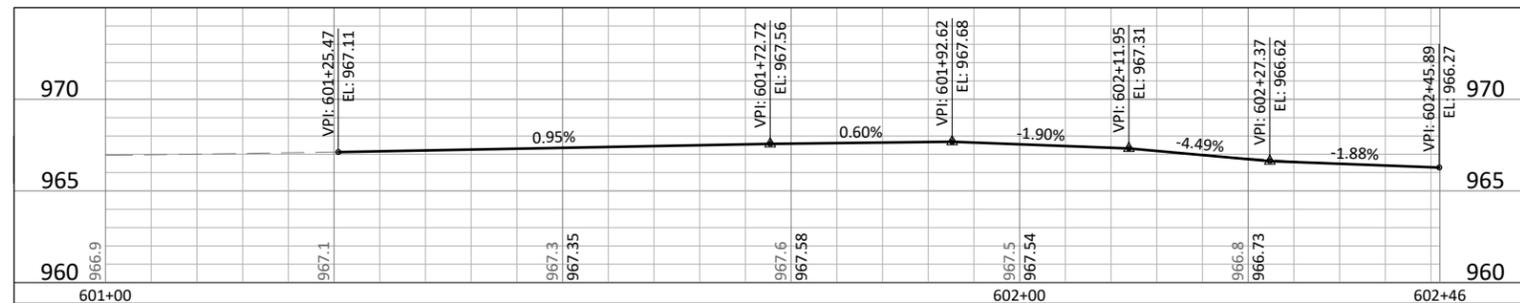
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NORTHFIELD, MINNESOTA
2026 JEFFERSON PKWY M&O AND MTST IMPROVEMENTS
INTERSECTION DETAILS
JEFFERSON PARKWAY

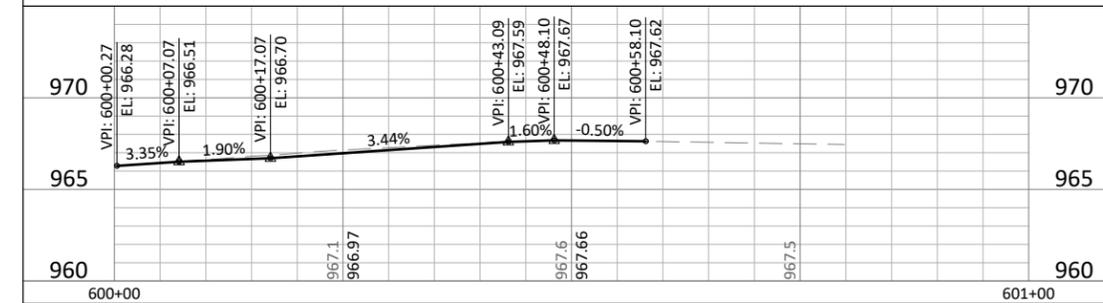
SHEET
C6.26
77
OF
140



JEFFERSON PARKWAY & MAPLE ST - SOUTHWEST LIP OF CURB PROFILE



JEFFERSON PARKWAY & MAPLE STREET - SOUTHEAST LIP OF CURB PROFILE



INTERSECTION DETAILS LEGEND

LANDING AREA - 4' X 4' MIN. DIMENSIONS AND 1.0% OPTIMUM (2.0% MAXIMUM) SLOPE IN ALL DIRECTIONS

TRANSITION PANEL(S) - TO BE USED FOR TRANSITIONING THE CROSS-SLOPE AND WIDTH OF A RAMP TO THE EXISTING WALK CROSS-SLOPE. RATE OF TRANSITION SHOULD BE 0.5% PER 1 LINEAR FOOT OF WALK.

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X.XX% DRAINAGE FLOW ARROW AND SLOPE

ANTICIPATED SIDEWALK SLOPE DIRECTION

CONSTRUCT CONCRETE CURB & GUTTER

X" CURB HEIGHT

TRUNCATED DOMES (SEE MnDOT STANDARD PLATE 7038)

NOTES:

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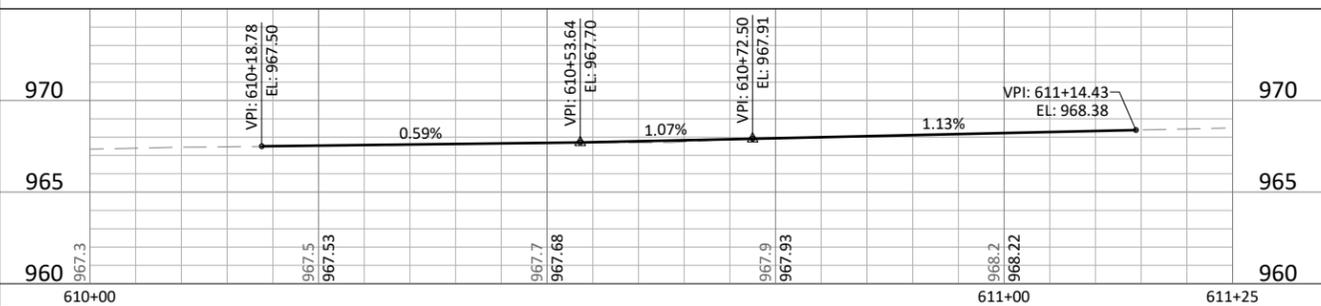
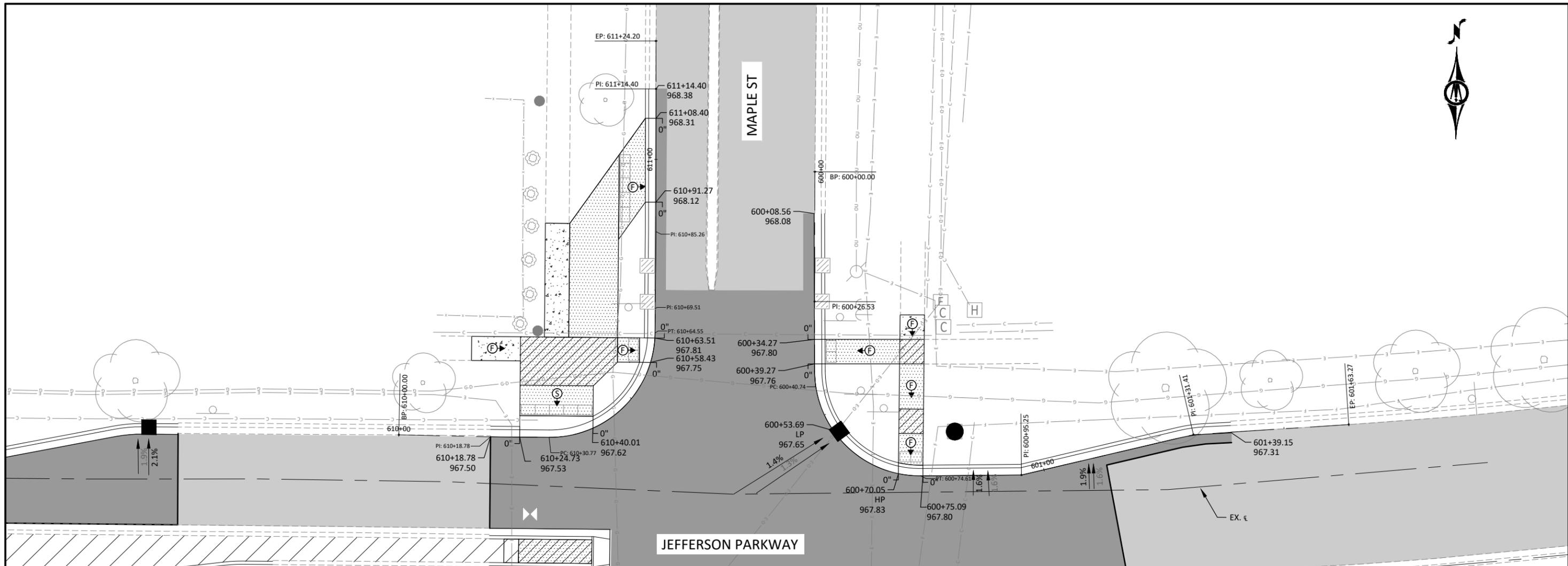
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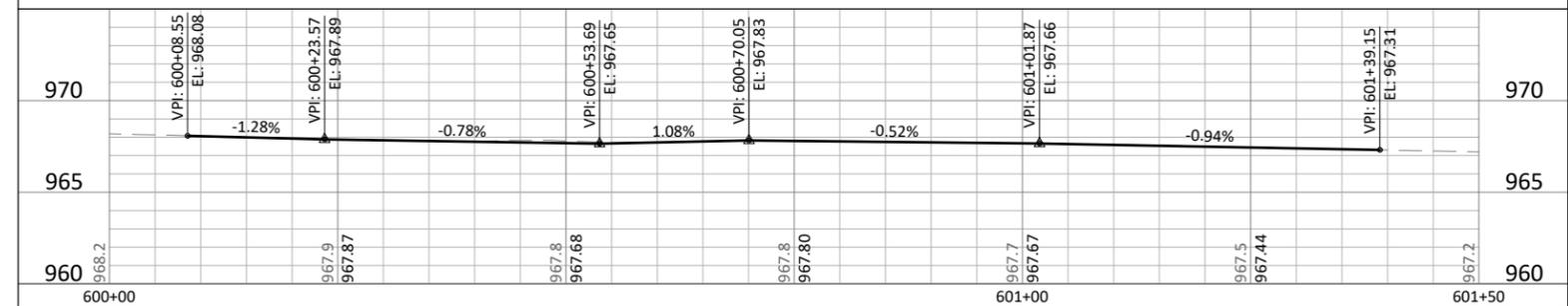
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NORTHFIELD, MINNESOTA
2026 JEFFERSON PKWY M&O AND MTST IMPROVEMENTS
INTERSECTION DETAILS
JEFFERSON PARKWAY

SHEET
C6.27
78
OF
140



JEFFERSON PARKWAY & MAPLE ST - NORTHEAST LIP OF CURB PROFILE

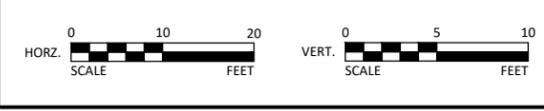


INTERSECTION DETAILS LEGEND

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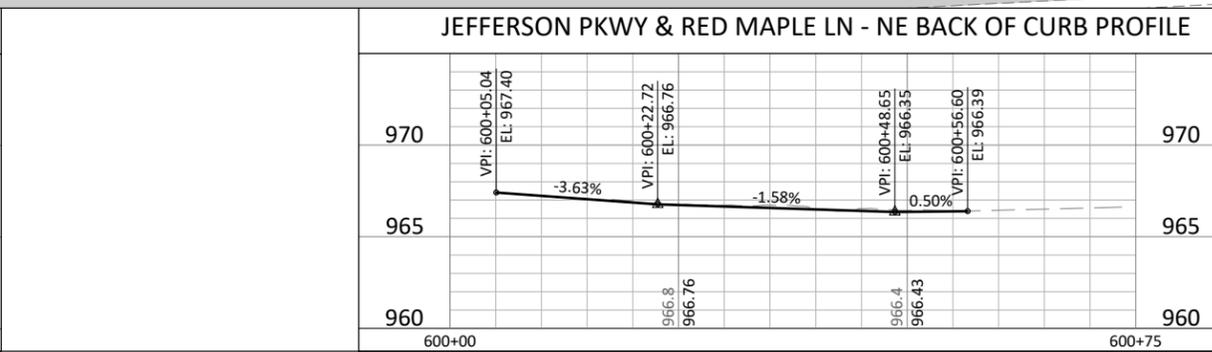
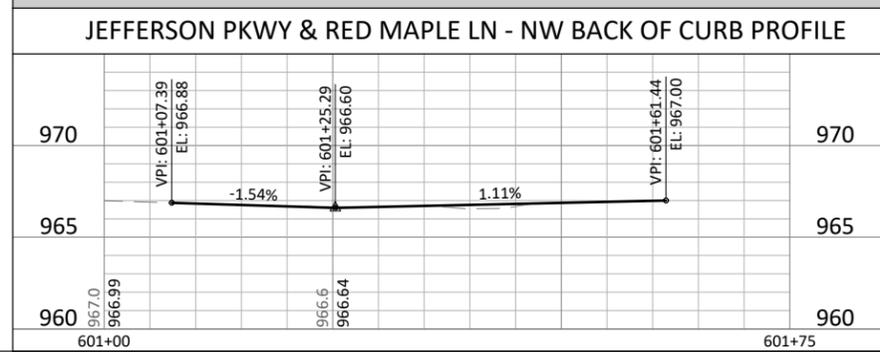
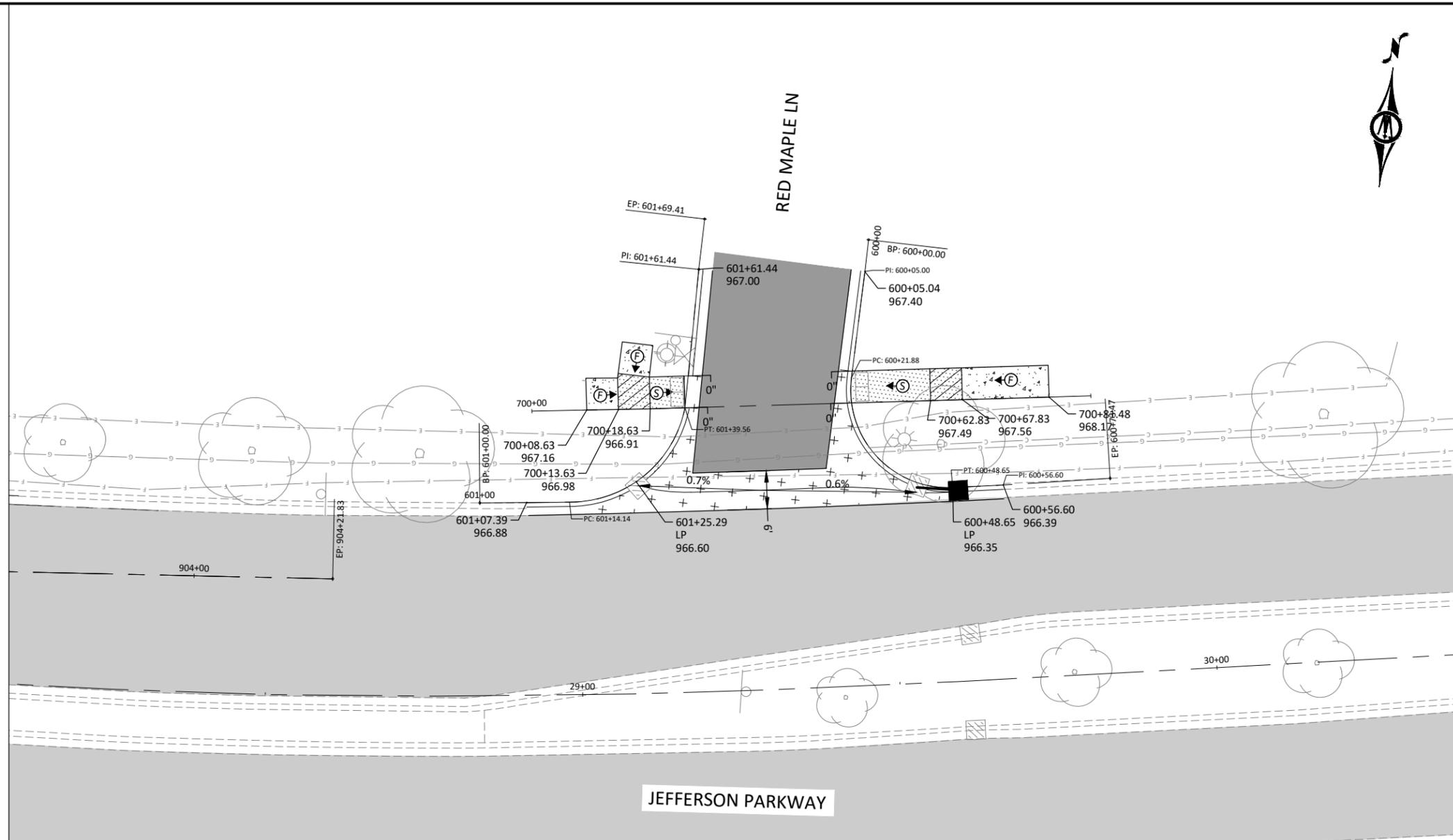
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NORTHFIELD, MINNESOTA

2026 JEFFERSON PKWY M&O AND MTST IMPROVEMENTS

INTERSECTION DETAILS
JEFFERSON PARKWAY

SHEET
C6.28
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140

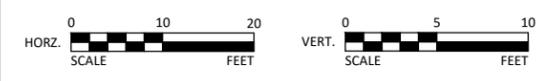


INTERSECTION DETAILS LEGEND

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- TRUNCATED DOMES (SEE MnDOT STANDARD PLATE 7038)

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NORTHFIELD, MINNESOTA

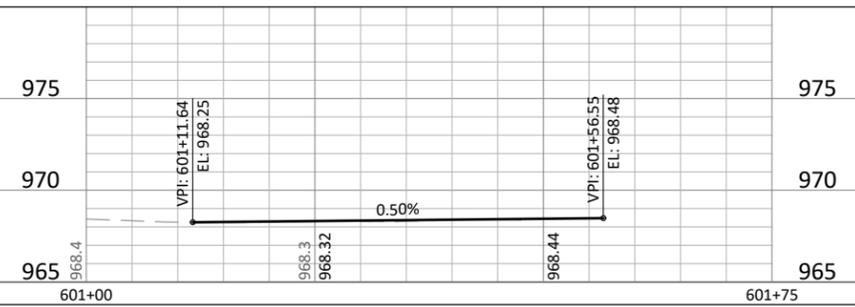
2026 JEFFERSON PKWY M&O AND MTST IMPROVEMENTS

INTERSECTION DETAILS

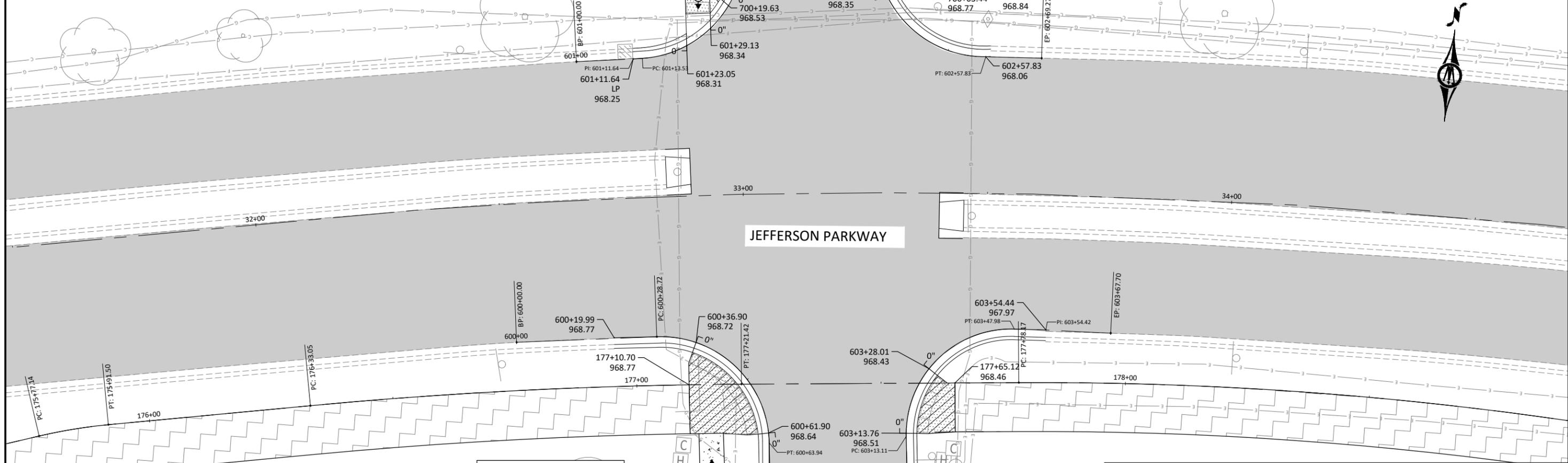
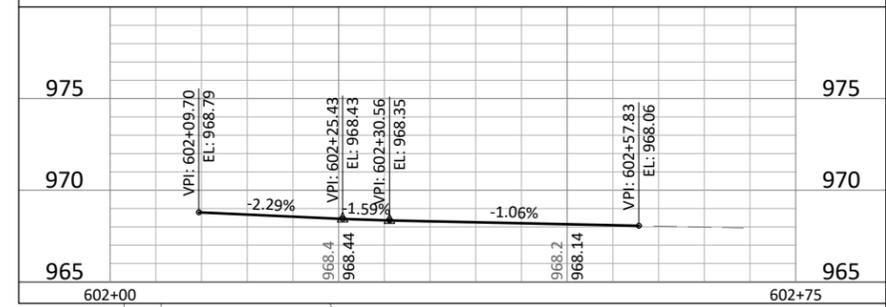
JEFFERSON PARKWAY

SHEET
C6.29
80
OF
140

JEFFERSON PARKWAY & LAKE DR - NORTHWEST CURB LIP PROFILE



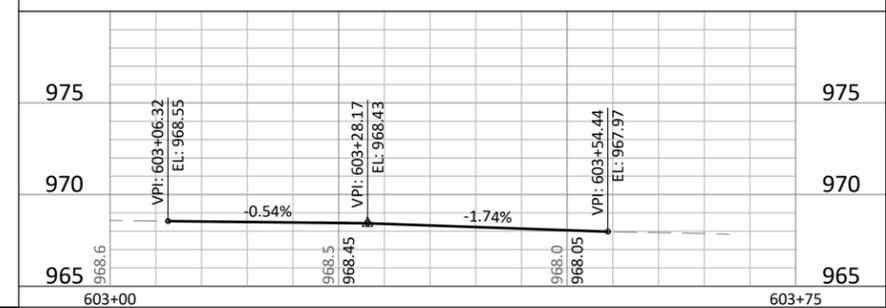
JEFFERSON PARKWAY & LAKE DR - NORTHEAST CURB LIP PROFILE



JEFFERSON PARKWAY & LAKE DR - SOUTHWEST CURB LIP PROFILE



JEFFERSON PARKWAY & LAKE DR - SOUTHEAST CURB LIP PROFILE



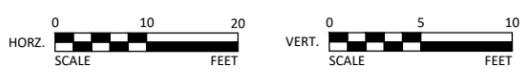
NOTE:
CONTRACTOR TO FIELD VERIFY CURB
REMOVAL LIMITS REQUIRED TO
MAINTAIN SUFFICIENT DRAINAGE

INTERSECTION DETAILS LEGEND

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JASON A. MALECHA, P.E.
LIC. NO. 57151 DATE MM/DD/YYYY



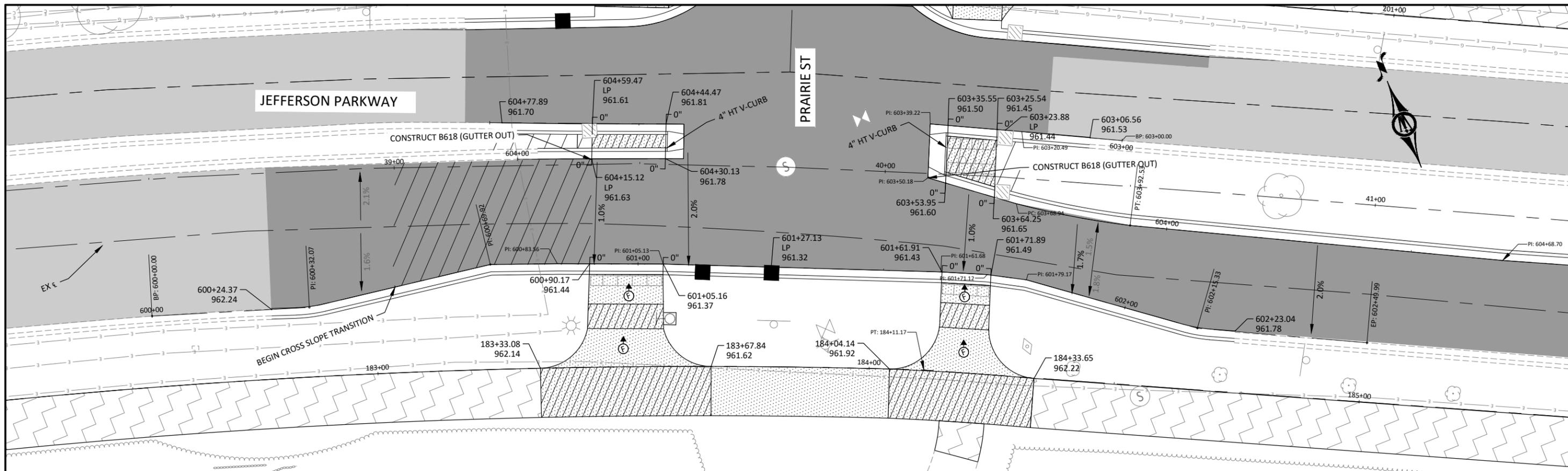
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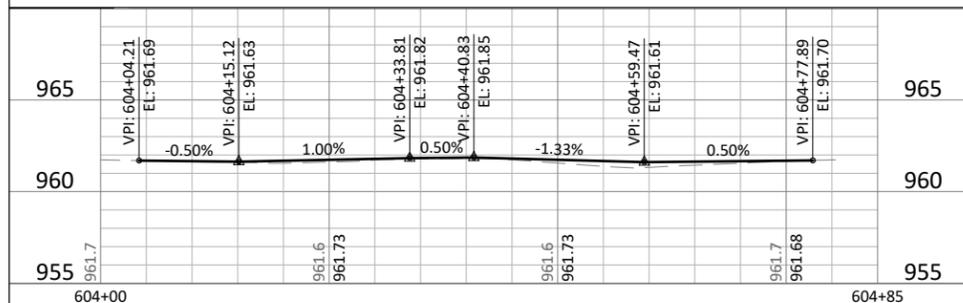
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NORTHFIELD, MINNESOTA
2026 JEFFERSON PKWY M&O AND MTST IMPROVEMENTS
INTERSECTION DETAILS
JEFFERSON PARKWAY

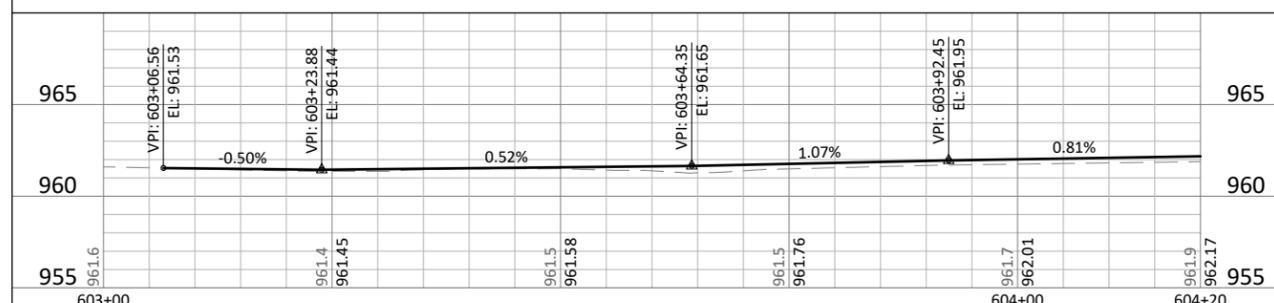
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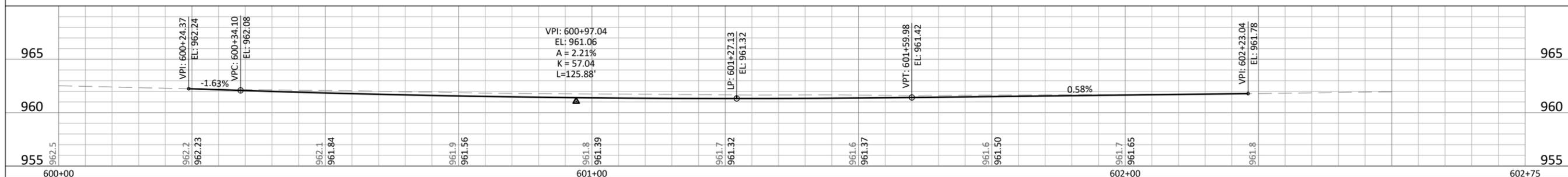
JEFFERSON PARKWAY & PRAIRIE STREET - WEST REFUGE LIP PROFILE



JEFFERSON PARKWAY & PRAIRIE STREET - EAST REFUGE LIP PROFILE



JEFFERSON PARKWAY & PRAIRIE STREET - SOUTH BUMP OUT CURB LIP PROFILE



INTERSECTION DETAILS LEGEND

- LANDING AREA - 4' X 4' MIN. DIMENSIONS AND 1.0% OPTIMUM (2.0% MAXIMUM) SLOPE IN ALL DIRECTIONS
- TRANSITION PANEL(S) - TO BE USED FOR TRANSITIONING THE CROSS-SLOPE AND WIDTH OF A RAMP TO THE EXISTING WALK CROSS-SLOPE. RATE OF TRANSITION SHOULD BE 0.5% PER 1 LINEAR FOOT OF WALK.
- INDICATES PEDESTRIAN RAMP - SLOPE SHALL BE 4.0% OPTIMUM (5.0% MAXIMUM) IN THE DIRECTION SHOWN AND CROSS SLOPE SHALL BE 1.5% OPTIMUM (2.0% MAX.)
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- DRAINAGE FLOW ARROW AND SLOPE
- ANTICIPATED SIDEWALK SLOPE DIRECTION
- CONSTRUCT CONCRETE CURB & GUTTER
- X,XX% CURB HEIGHT
- X" CURB HEIGHT
- TRUNCATED DOMES (SEE MnDOT STANDARD PLATE 7038)

NOTES:

1. ALL TOP OF CURB ELEVATIONS GIVEN ON THE INTERSECTION DETAILS (INCLUDING THOSE GIVEN AT PEDESTRIAN RAMP CONTROL POINTS) REPRESENT FULL HEIGHT TOP OF DESIGN B6 (6") UNLESS NOTED OTHERWISE. THE CURB HEIGHT THROUGH DRIVEWAYS AND PEDESTRIAN RAMPS SHALL BE CONSTRUCTED PER THE DETAILS IN THIS PLAN SET.
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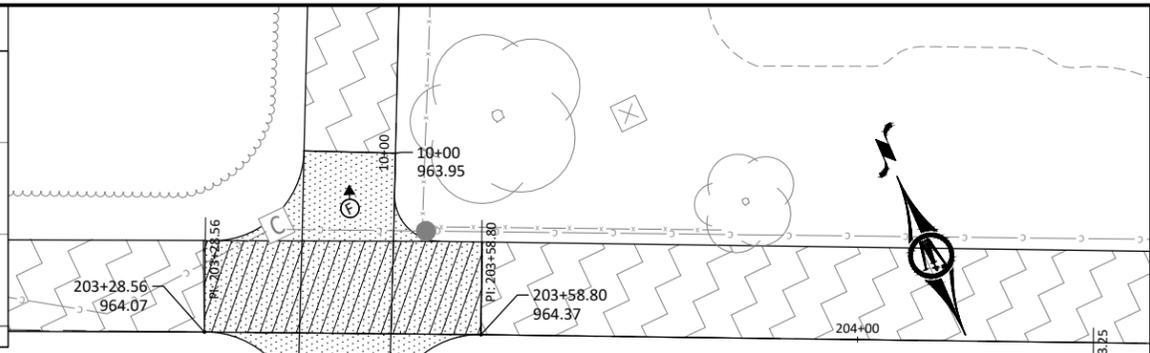
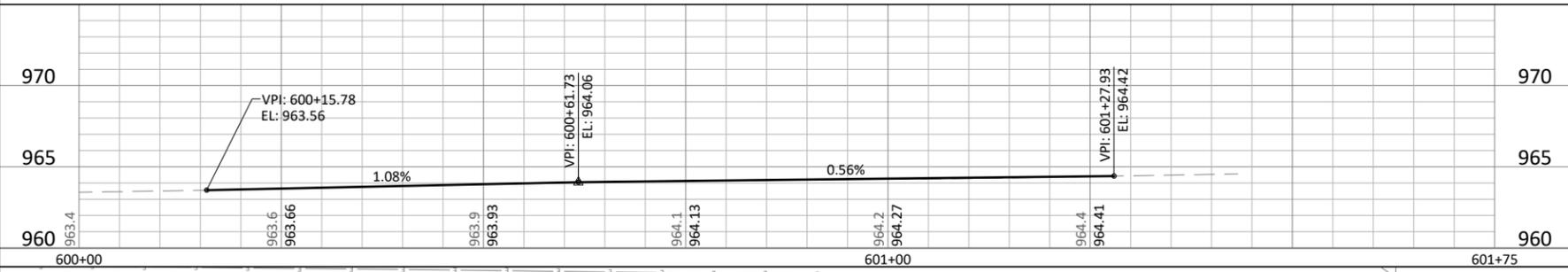


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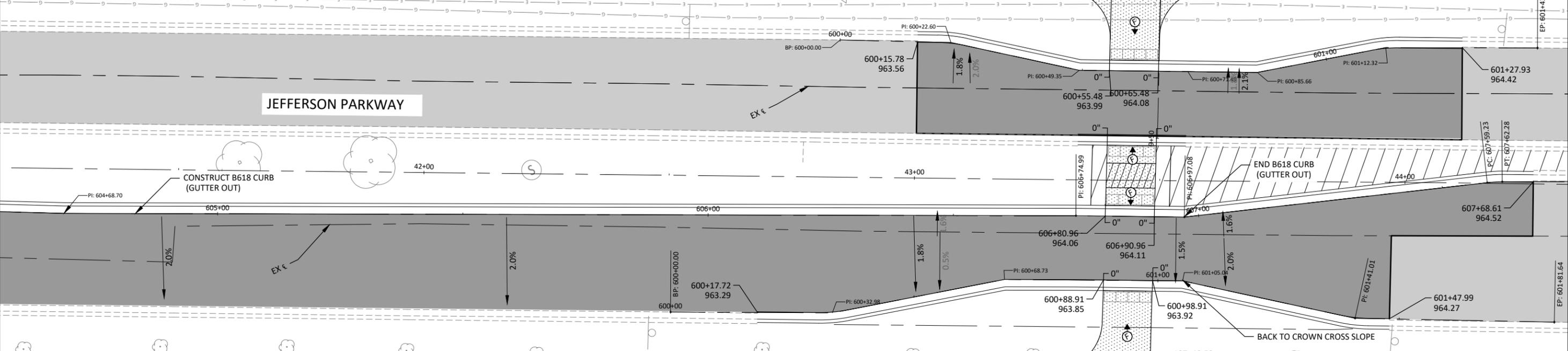
NORTHFIELD, MINNESOTA
2026 JEFFERSON PKWY M&O AND MTST IMPROVEMENTS
INTERSECTION DETAILS
JEFFERSON PARKWAY

SHEET
C6.31
82
OF
140

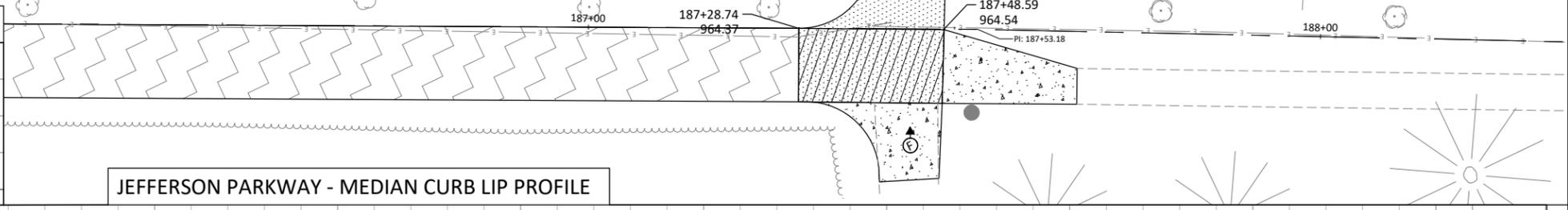
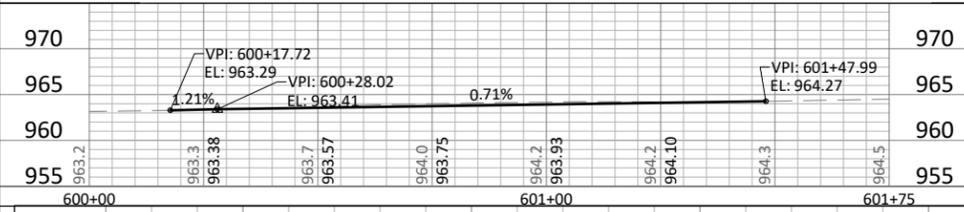
JEFFERSON PARKWAY - NORTH CURB BUMP OUT LIP PROFILE



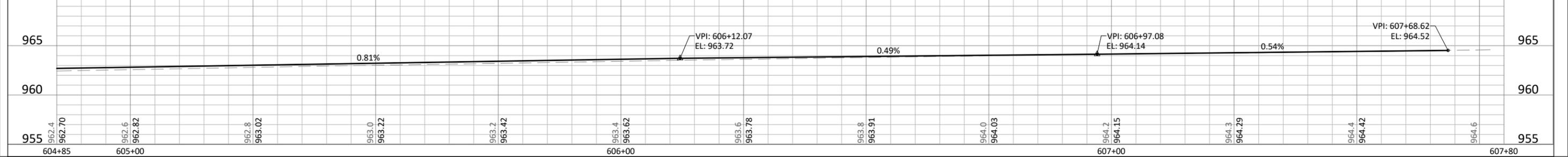
JEFFERSON PARKWAY



JEFFERSON PARKWAY - SOUTH CURB BUMP OUT LIP PROFILE



JEFFERSON PARKWAY - MEDIAN CURB LIP PROFILE

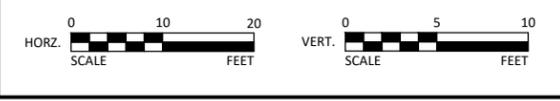


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- CONSTRUCT CONCRETE CURB & GUTTER
- CURB HEIGHT
- TRUNCATED DOMES (SEE MnDOT STANDARD PLATE 7038)

- NOTES:
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LIC. NO. 57151 DATE MM/DD/YYYY



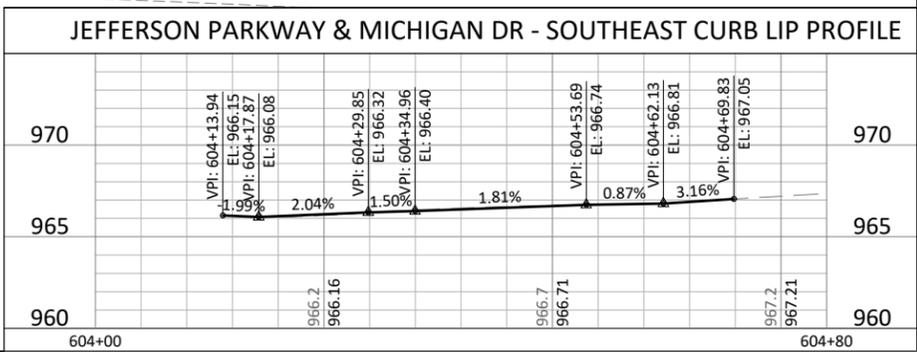
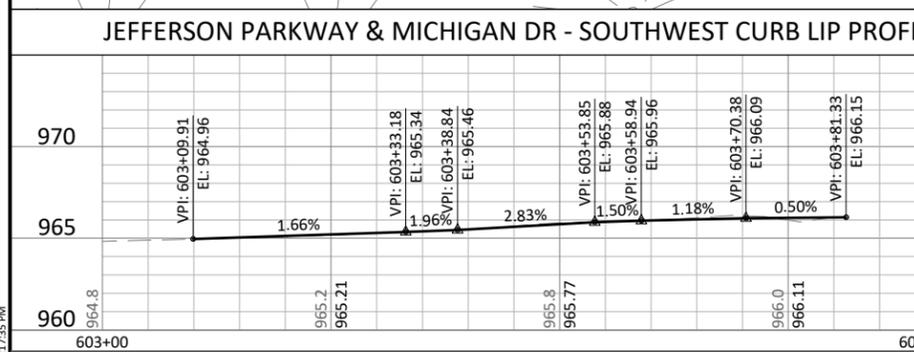
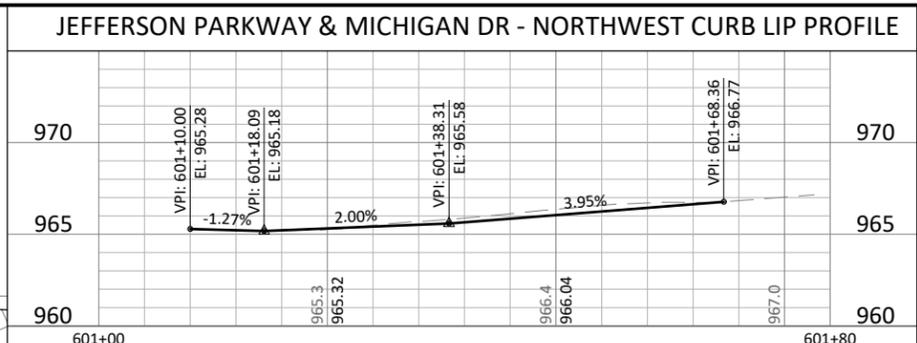
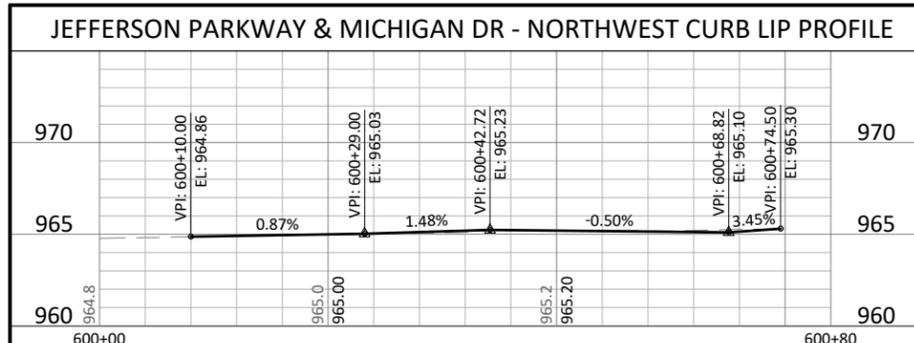
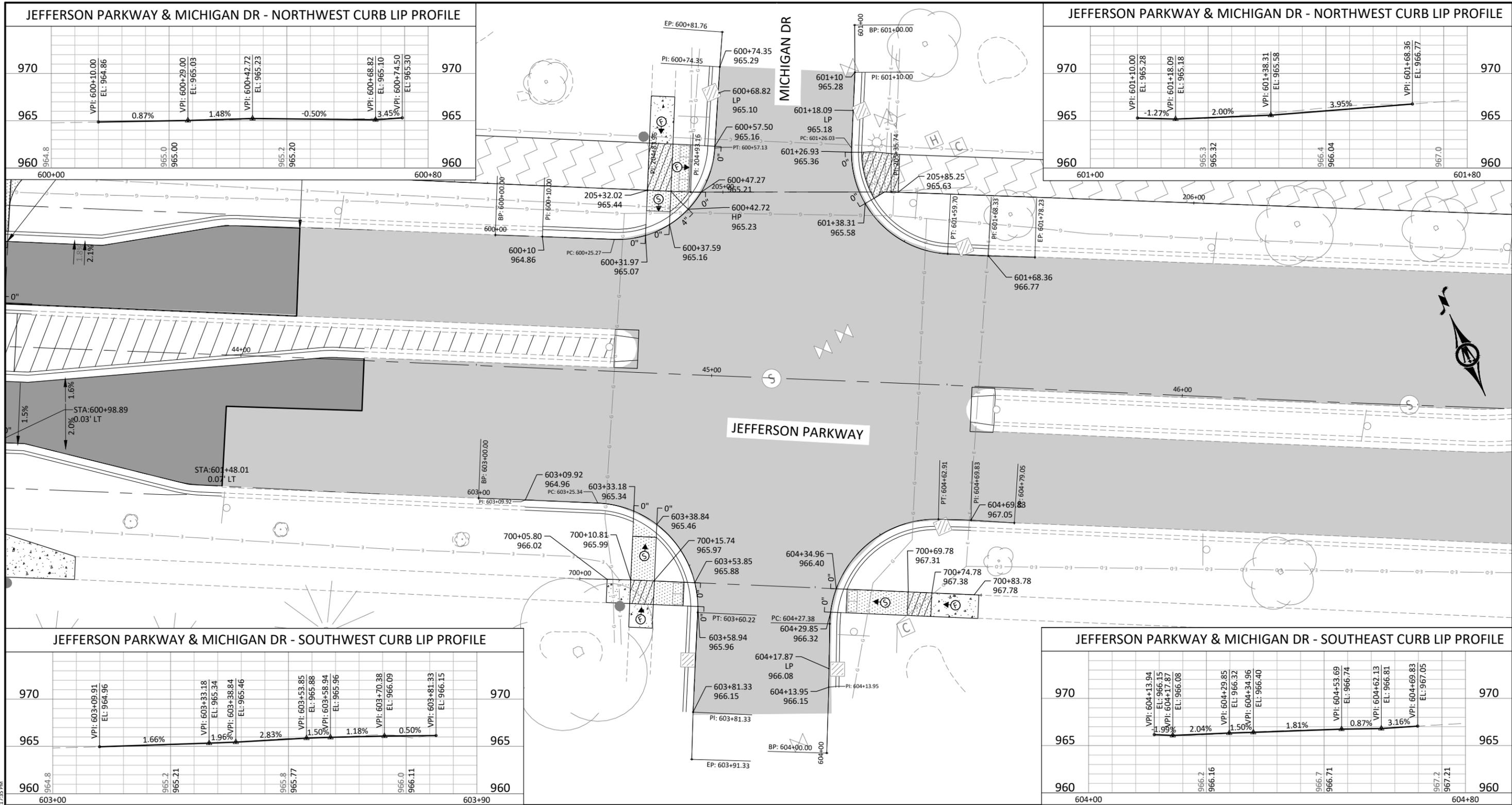
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NORTHFIELD, MINNESOTA
2026 JEFFERSON PKWY M&O AND MTST IMPROVEMENTS
INTERSECTION DETAILS
JEFFERSON PARKWAY

SHEET
C6.32
83
OF
140

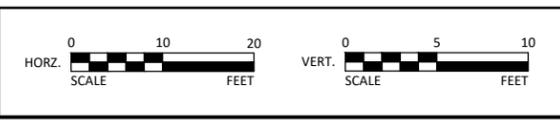


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LIC. NO. 57151 DATE MM/DD/YYYY



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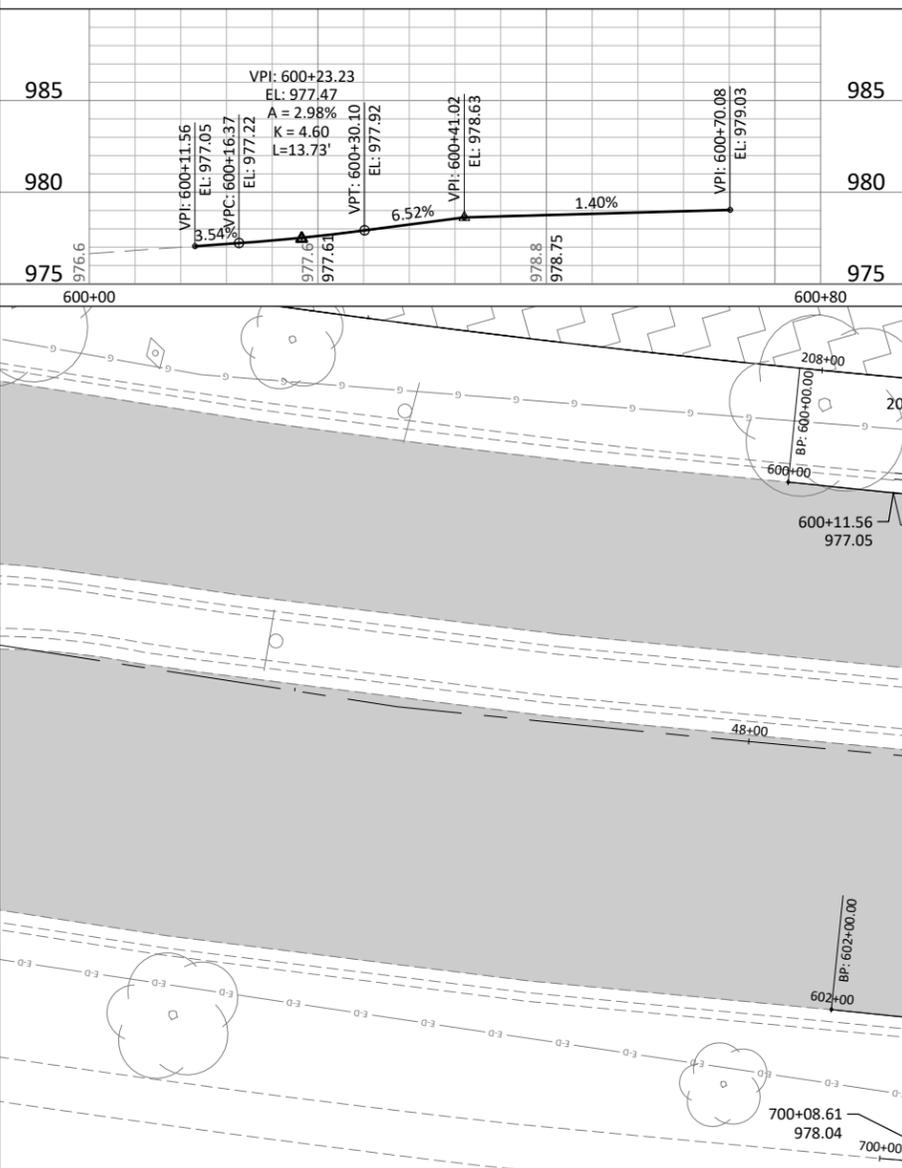


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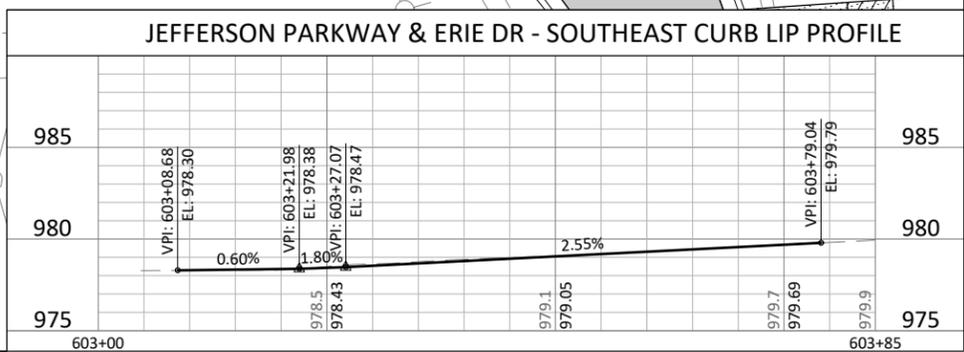
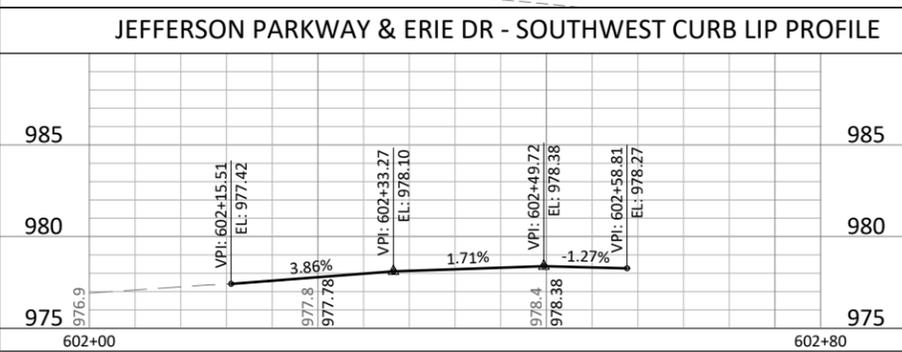
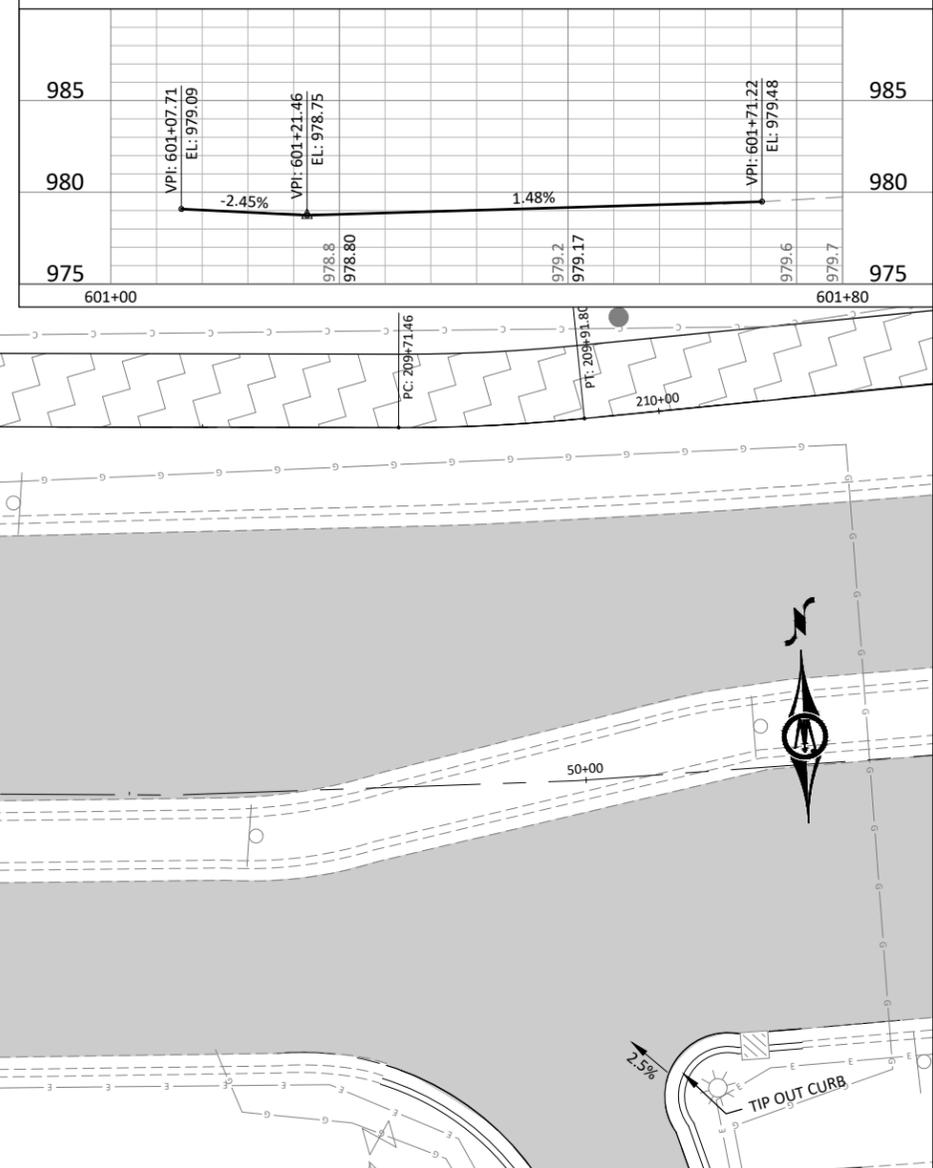
NORTHFIELD, MINNESOTA
2026 JEFFERSON PKWY M&O AND MTST IMPROVEMENTS
INTERSECTION DETAILS
JEFFERSON PARKWAY

SHEET
C6.33
84
OF
140

JEFFERSON PARKWAY & ERIE DR - NORTHWEST CURB LIP PROFILE



JEFFERSON PARKWAY & ERIE DR - NORTHEAST CURB LIP PROFILE



JEFFERSON PARKWAY

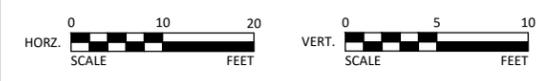
ERIE DR

INTERSECTION DETAILS LEGEND

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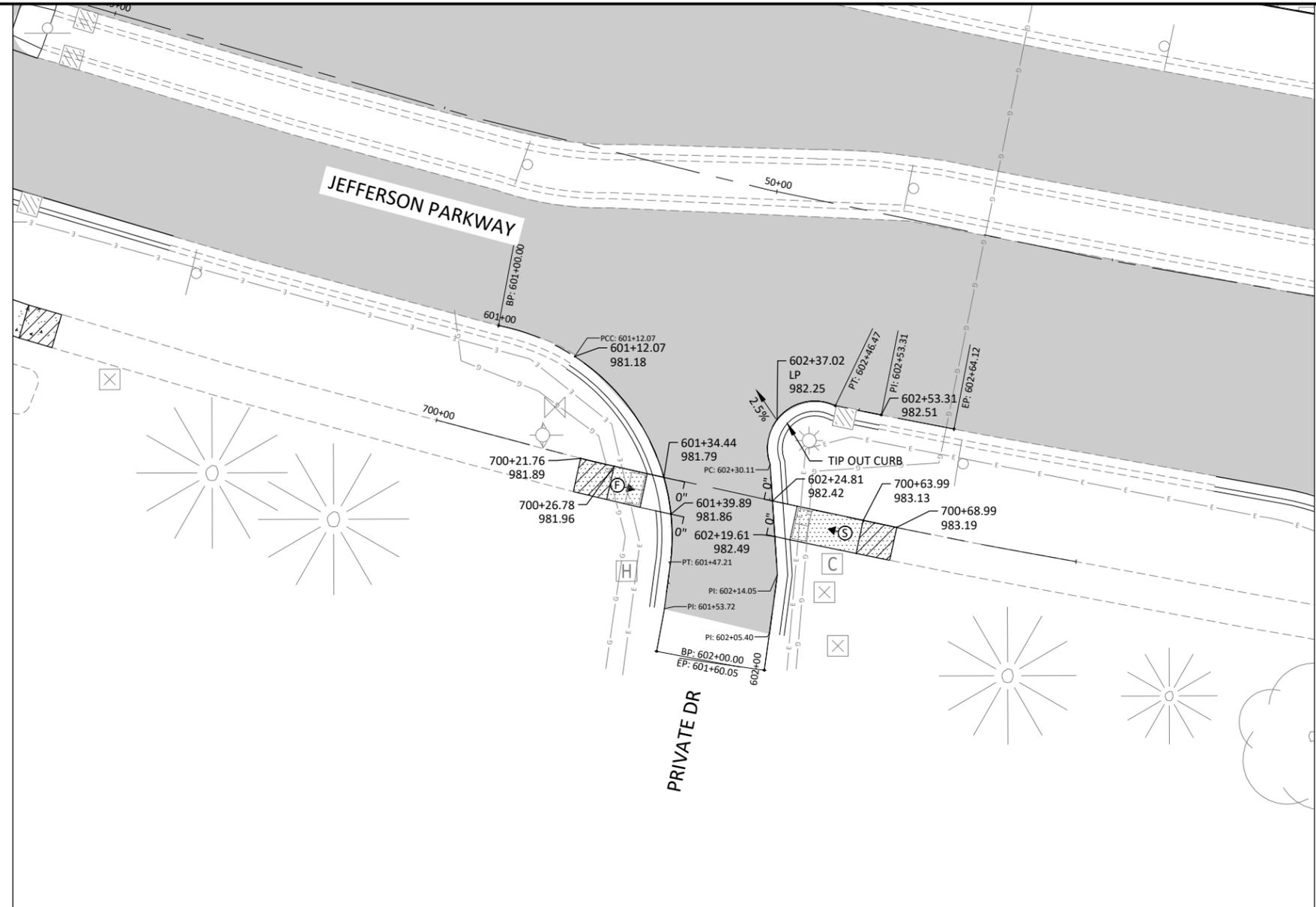
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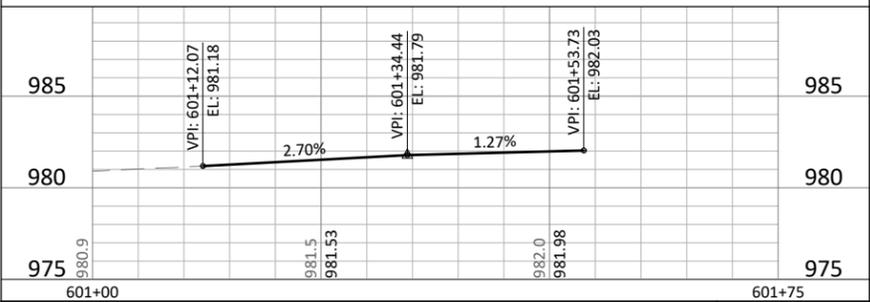
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NORTHFIELD, MINNESOTA
2026 JEFFERSON PKWY M&O AND MTST IMPROVEMENTS
INTERSECTION DETAILS
JEFFERSON PARKWAY

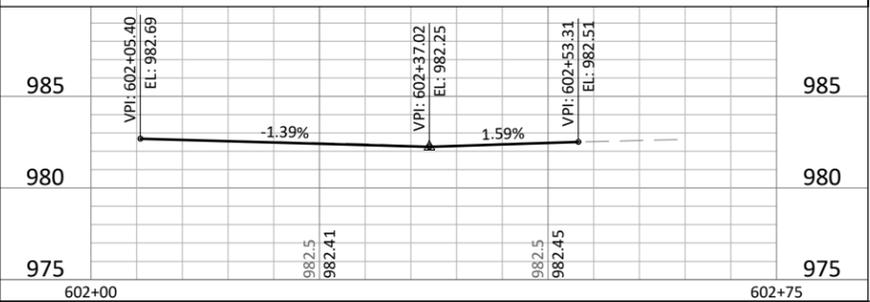
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JEFFERSON PARKWAY & ERIÉ DR - SOUTHWEST CURB LIP PROFILE



JEFFERSON PARKWAY & ERIÉ DR - SOUTHEAST CURB LIP PROFILE

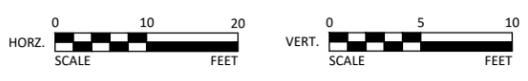


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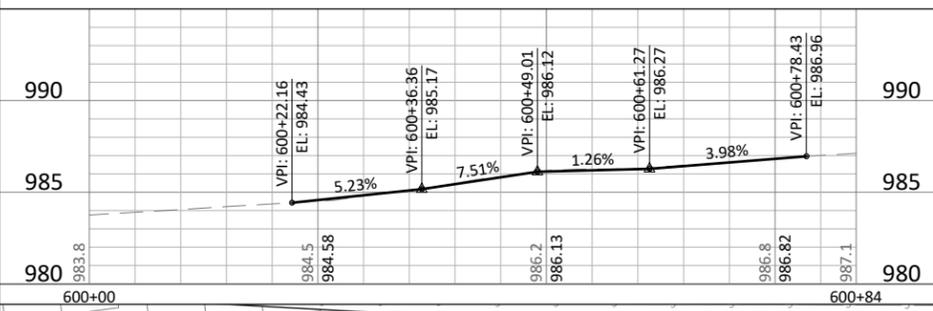
NORTHFIELD, MINNESOTA

2026 JEFFERSON PKWY M&O AND MTST IMPROVEMENTS

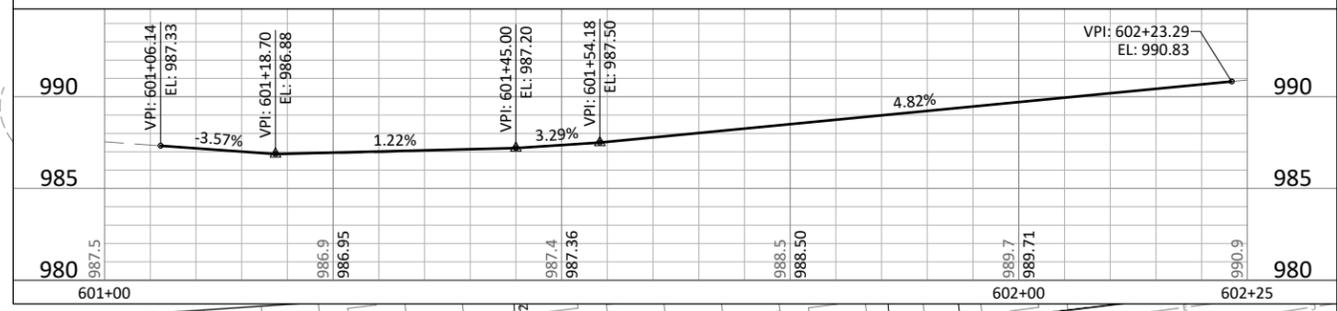
INTERSECTION DETAILS
JEFFERSON PARKWAY

SHEET
86
OF
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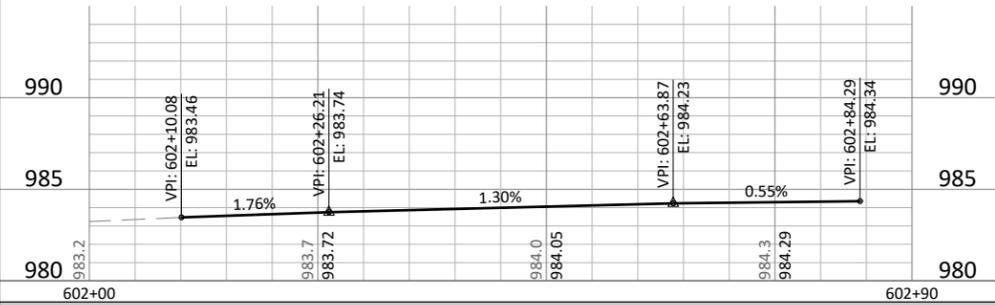
JEFFERSON PARKWAY & ONTARIO DR - NORTHWEST CURB LIP PROFILE



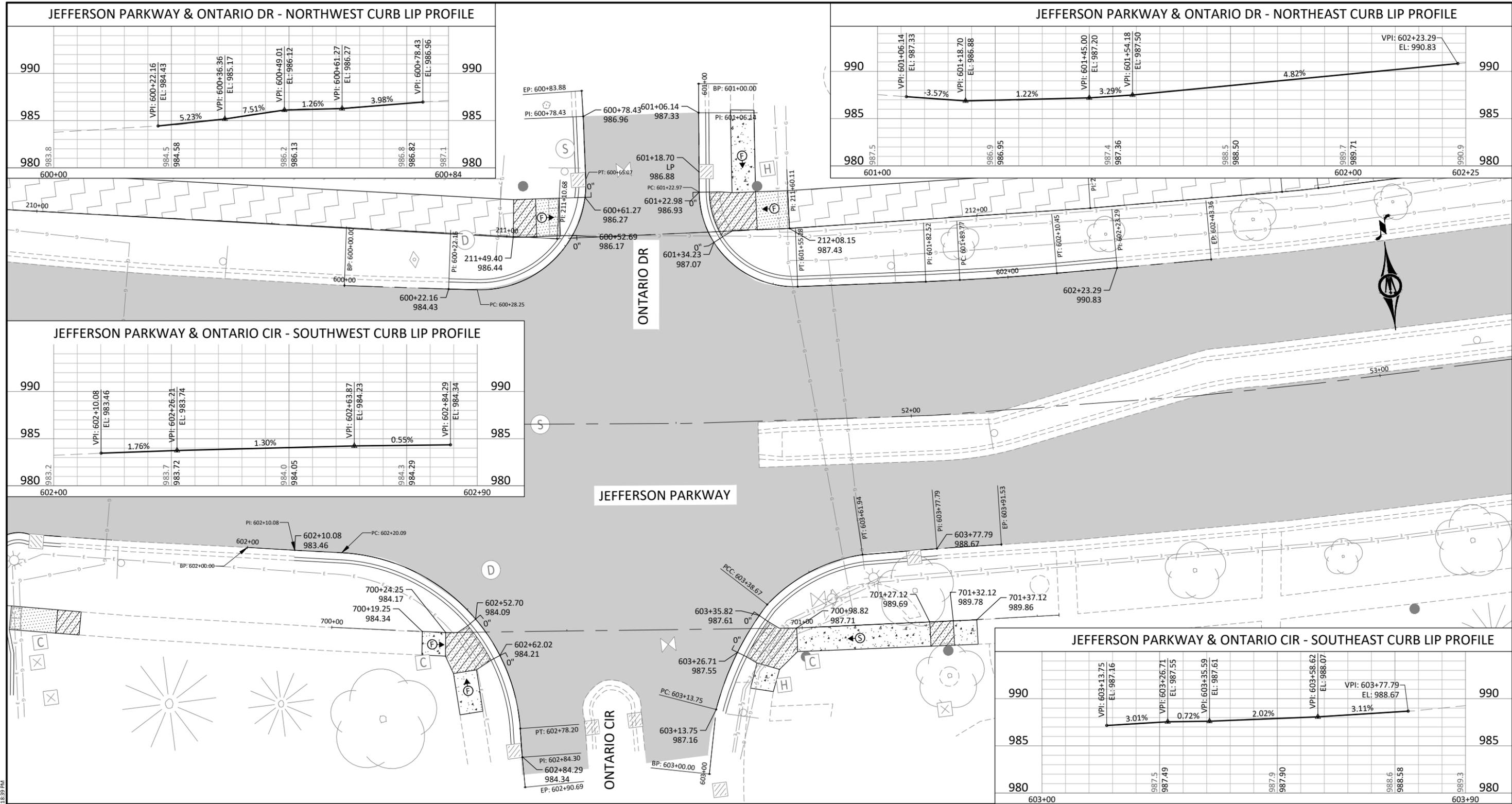
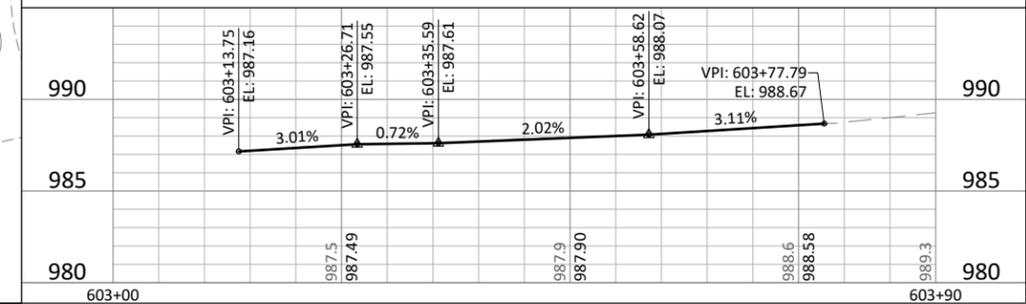
JEFFERSON PARKWAY & ONTARIO DR - NORTHEAST CURB LIP PROFILE



JEFFERSON PARKWAY & ONTARIO CIR - SWEST CURB LIP PROFILE



JEFFERSON PARKWAY & ONTARIO CIR - SOUTHEAST CURB LIP PROFILE

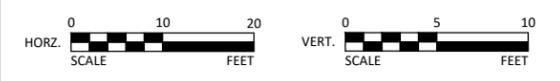


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- X.XX% DRAINAGE FLOW ARROW AND SLOPE
- ANTICIPATED SIDEWALK SLOPE DIRECTION
- CONSTRUCT CONCRETE CURB & GUTTER
- X" CURB HEIGHT
- TRUNCATED DOMES (SEE MNDOT STANDARD PLATE 7038)

- NOTES:
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 - CURB DESIGN V (WHERE PROPOSED) MAY BE ELIMINATED AT THE DISCRETION OF THE ENGINEER AS FIELD CONDITIONS ALLOW. THIS QUANTITY MAY BE INCREASED OR DECREASED BY ANY AMOUNT WITHOUT ADJUSTMENT TO THE UNIT PRICES BID.
 - ALL CURB TAPERS SHALL BE 3' TO FULL HEIGHT CURB UNLESS NOTED OTHERWISE.

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JASON A. MALECHA, P.E.
LIC. NO. 57151 DATE MM/DD/YYYY



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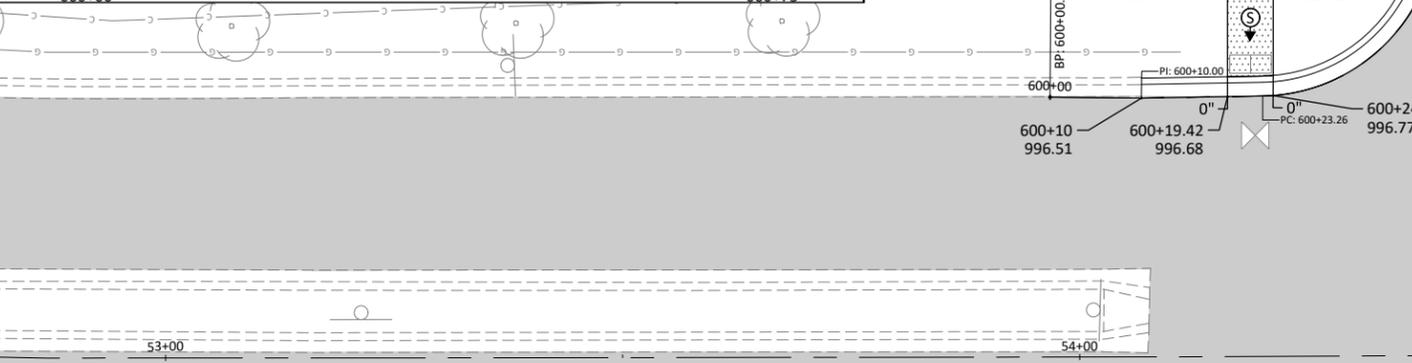
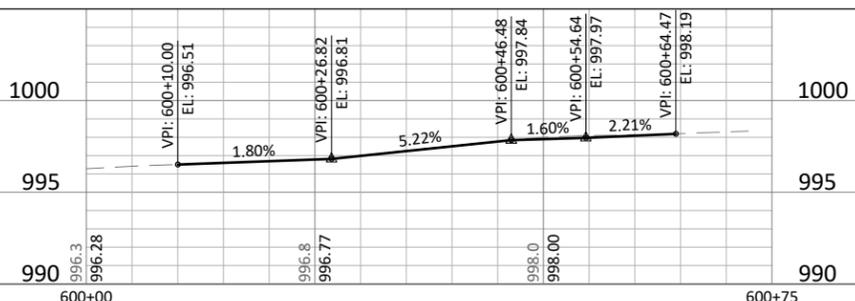


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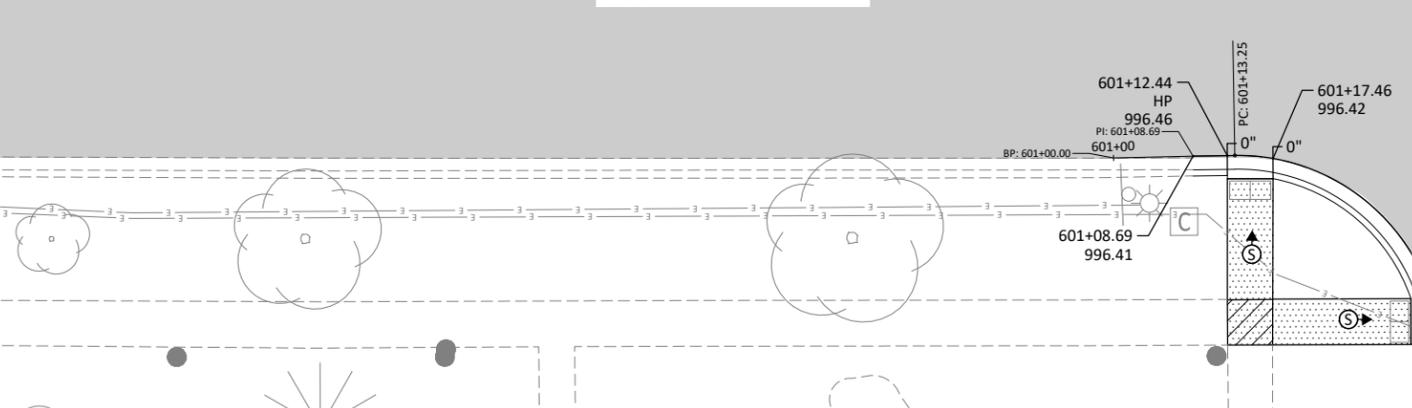
NORTHFIELD, MINNESOTA
2026 JEFFERSON PKWY M&O AND MTST IMPROVEMENTS
INTERSECTION DETAILS
JEFFERSON PARKWAY

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OF
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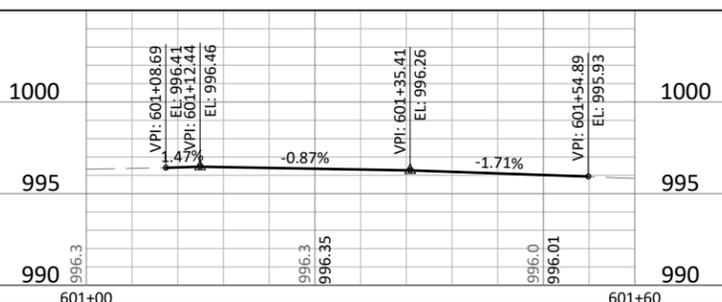
JEFFERSON PKWY & SPRING CREEK RD - NORTHWEST CURB LIP PROFILE



JEFFERSON PARKWAY



JEFFERSON PKWY & SPRING CREEK RD-SW CURB LIP PROFILE

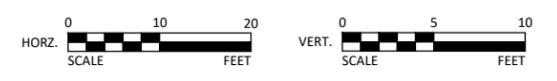


INTERSECTION DETAILS LEGEND

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NORTHFIELD, MINNESOTA

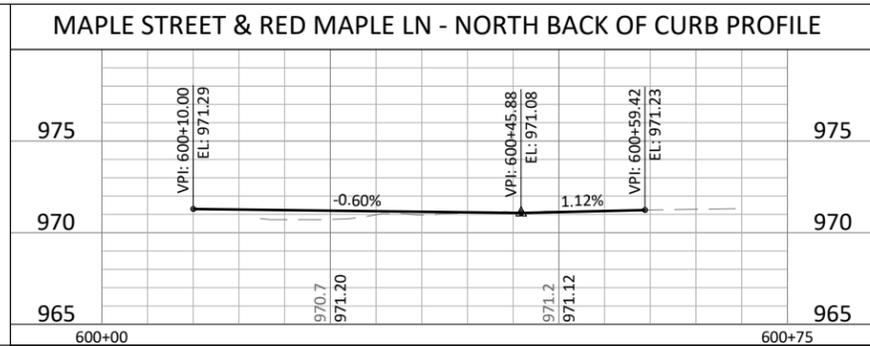
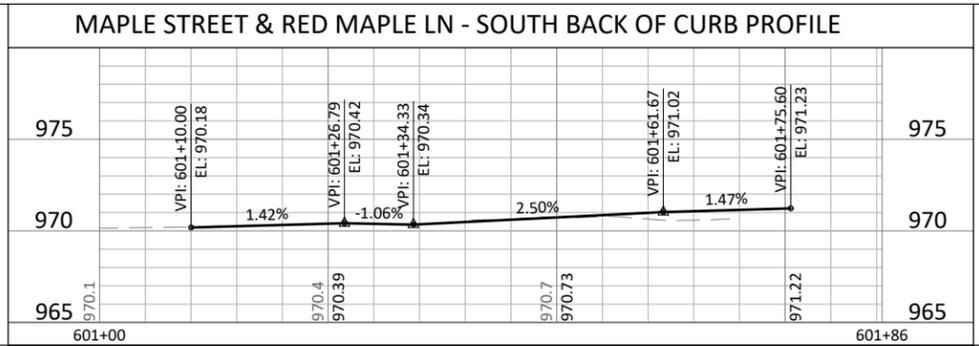
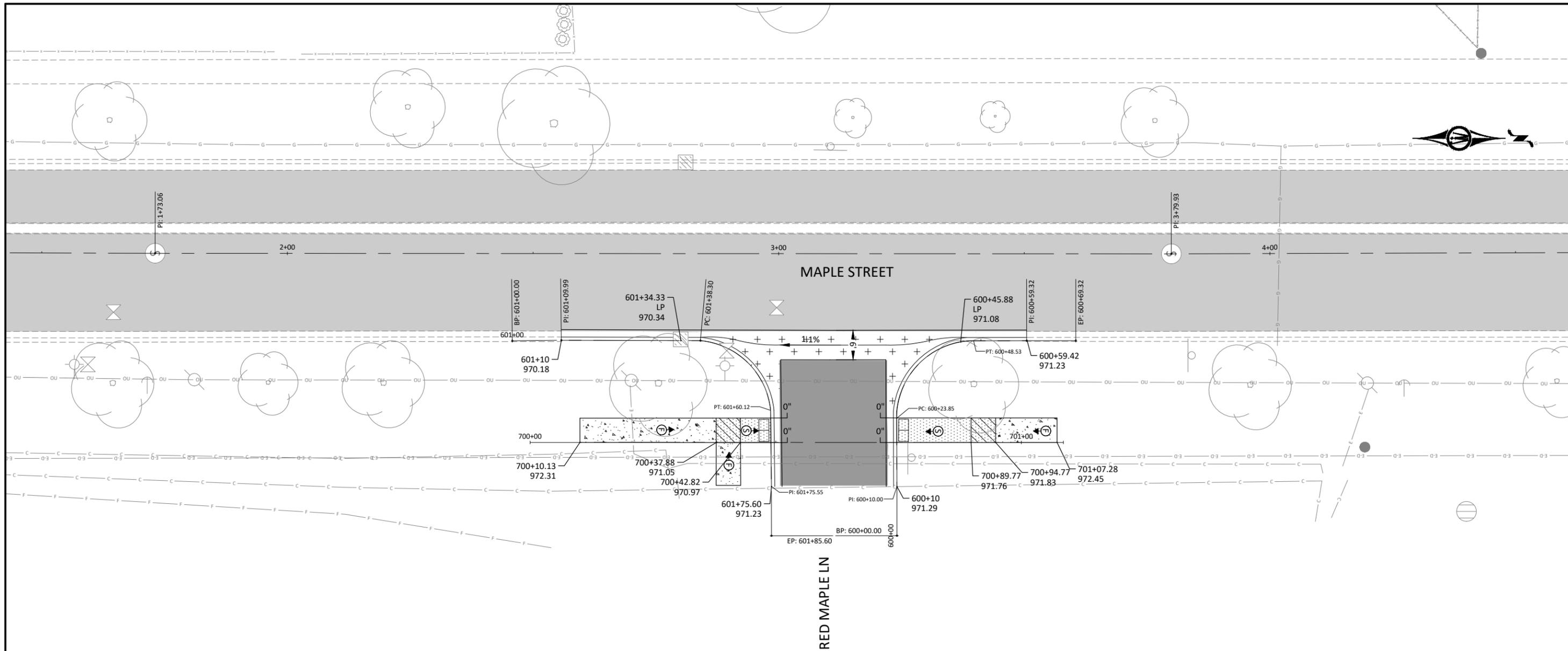
2026 JEFFERSON PKWY M&O AND MTST IMPROVEMENTS

INTERSECTION DETAILS

JEFFERSON PARKWAY

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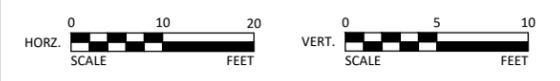


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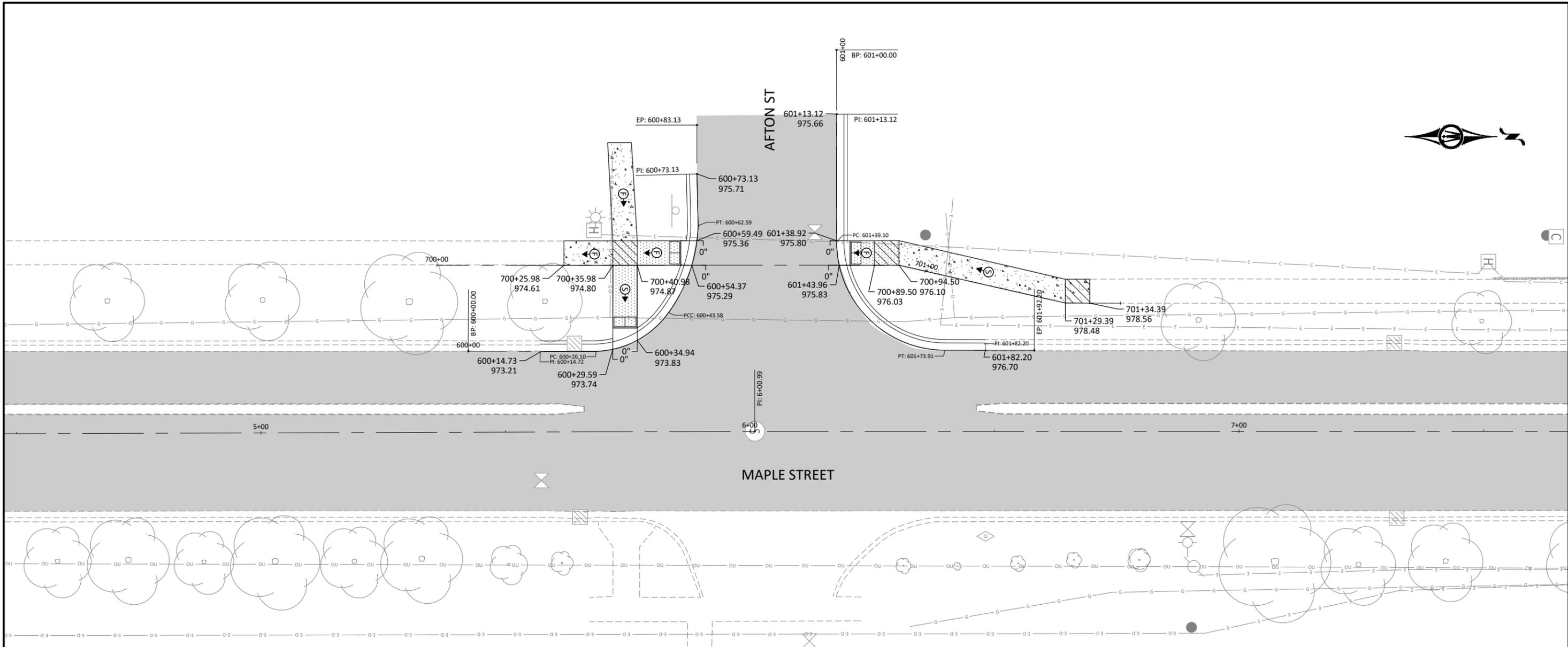
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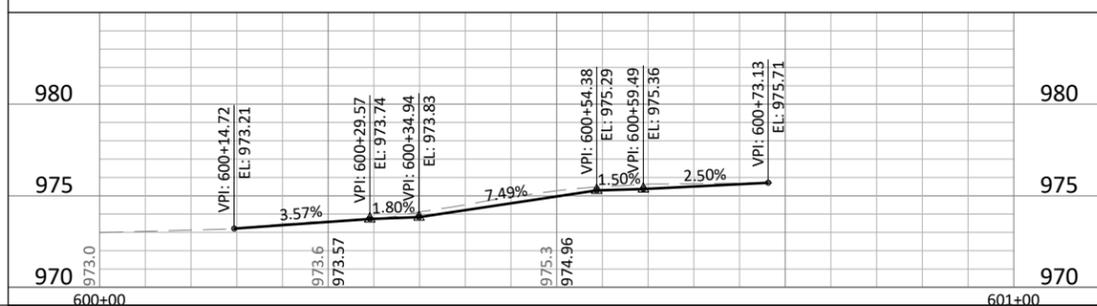
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NORTHFIELD, MINNESOTA
2026 JEFFERSON PKWY M&O AND MTST IMPROVEMENTS
INTERSECTION DETAILS
MAPLE STREET

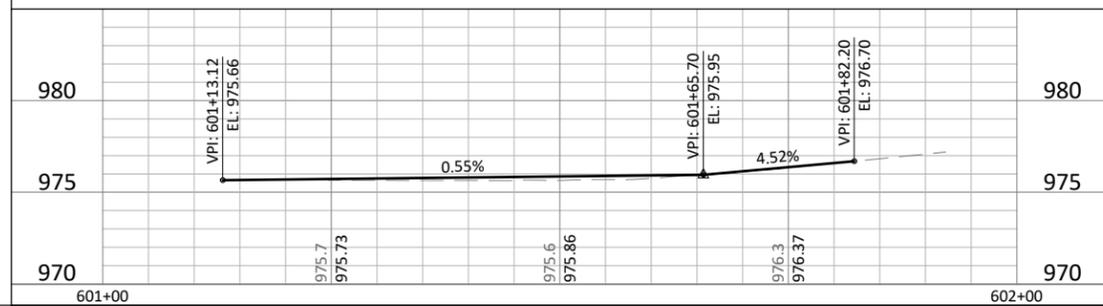
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MAPLE STREET & AFTON DR - SOUTH CURB LIP PROFILE



MAPLE STREET & AFTON DR - NORTH CURB LIP PROFILE

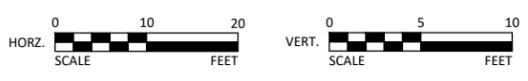


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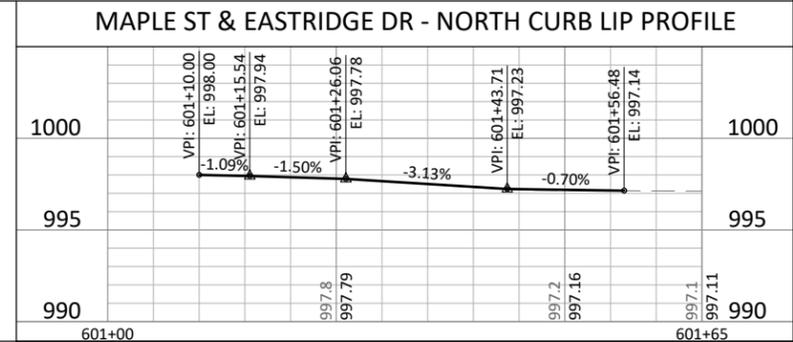
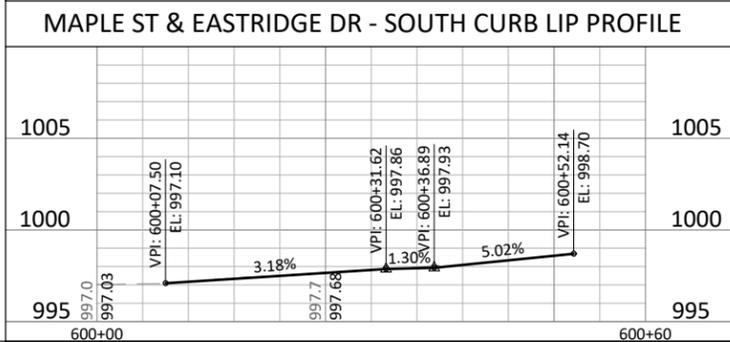
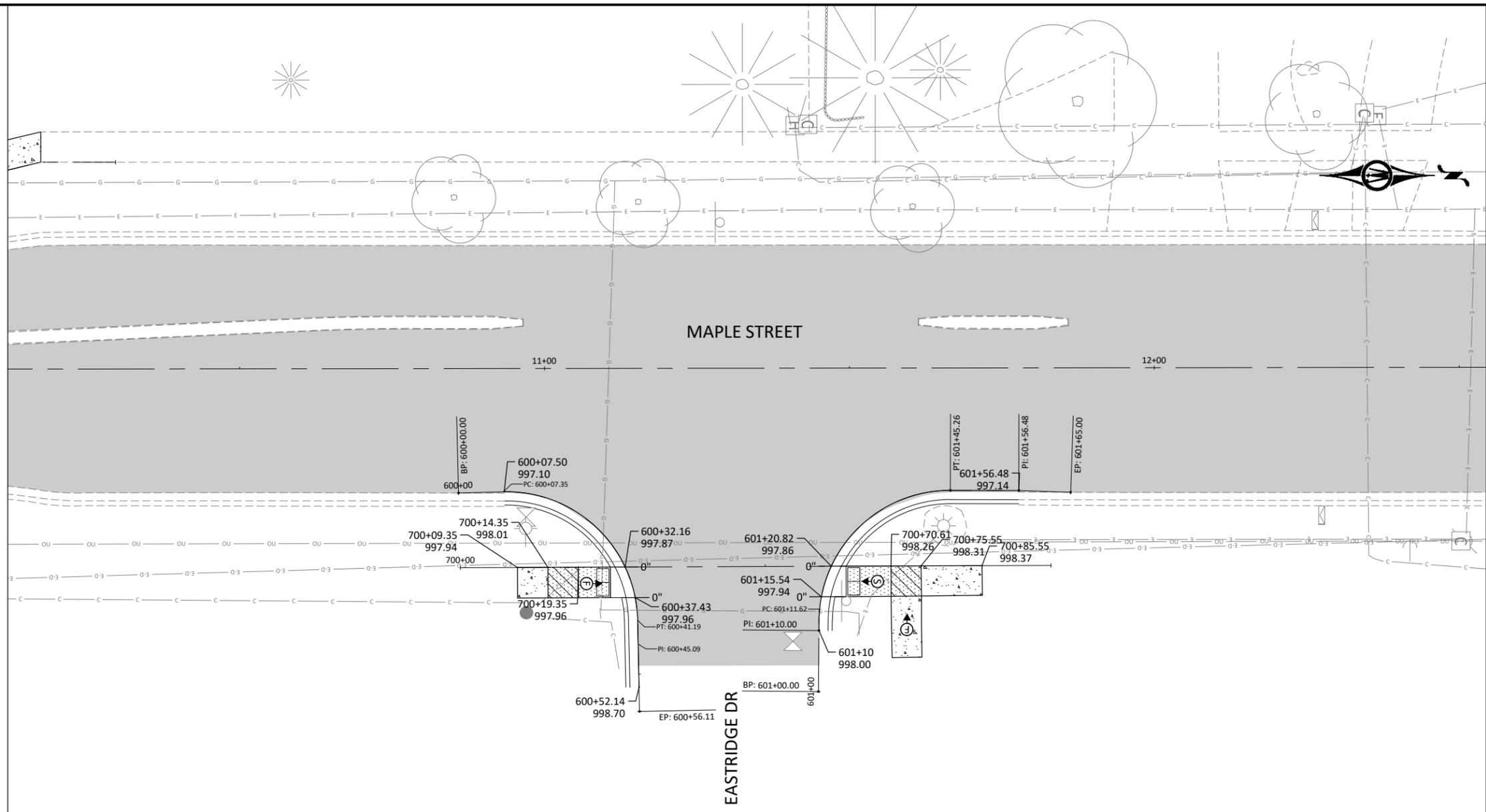
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2026 JEFFERSON PKWY M&O AND MTST IMPROVEMENTS
INTERSECTION DETAILS
MAPLE STREET

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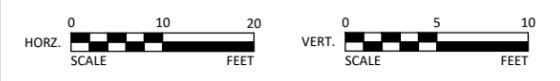


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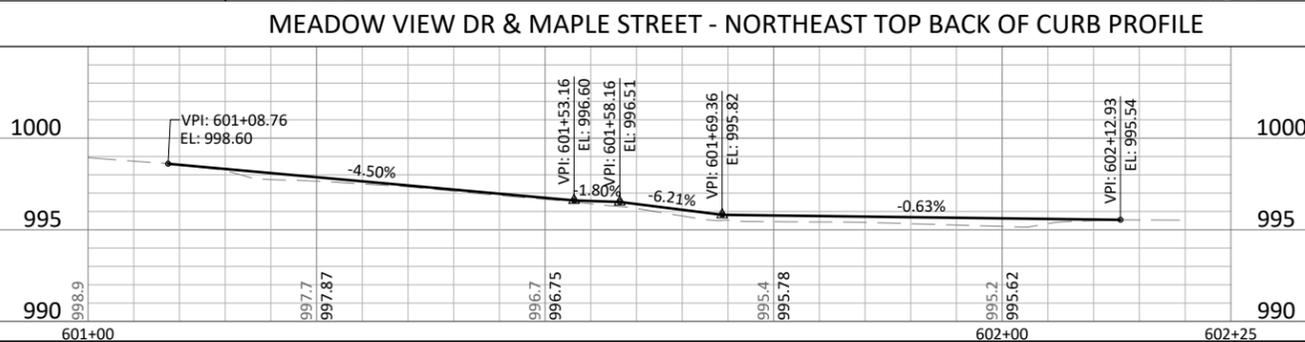
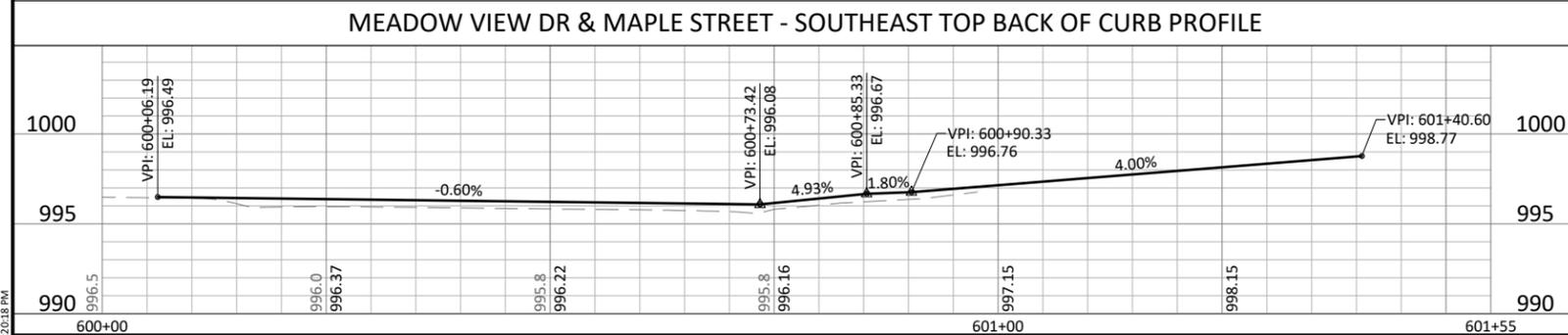
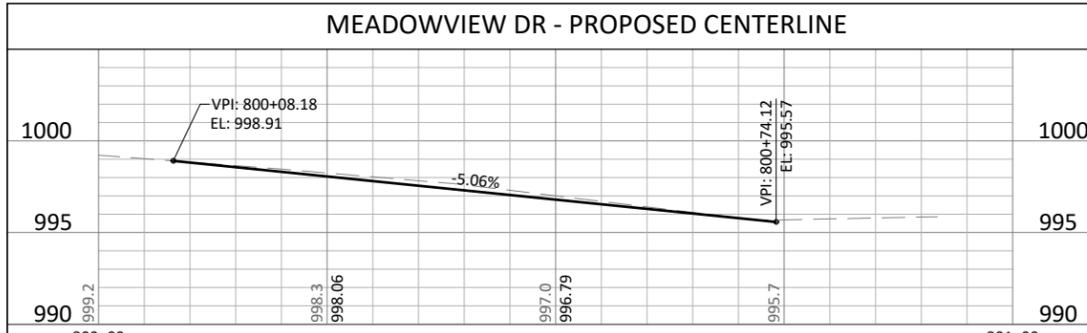
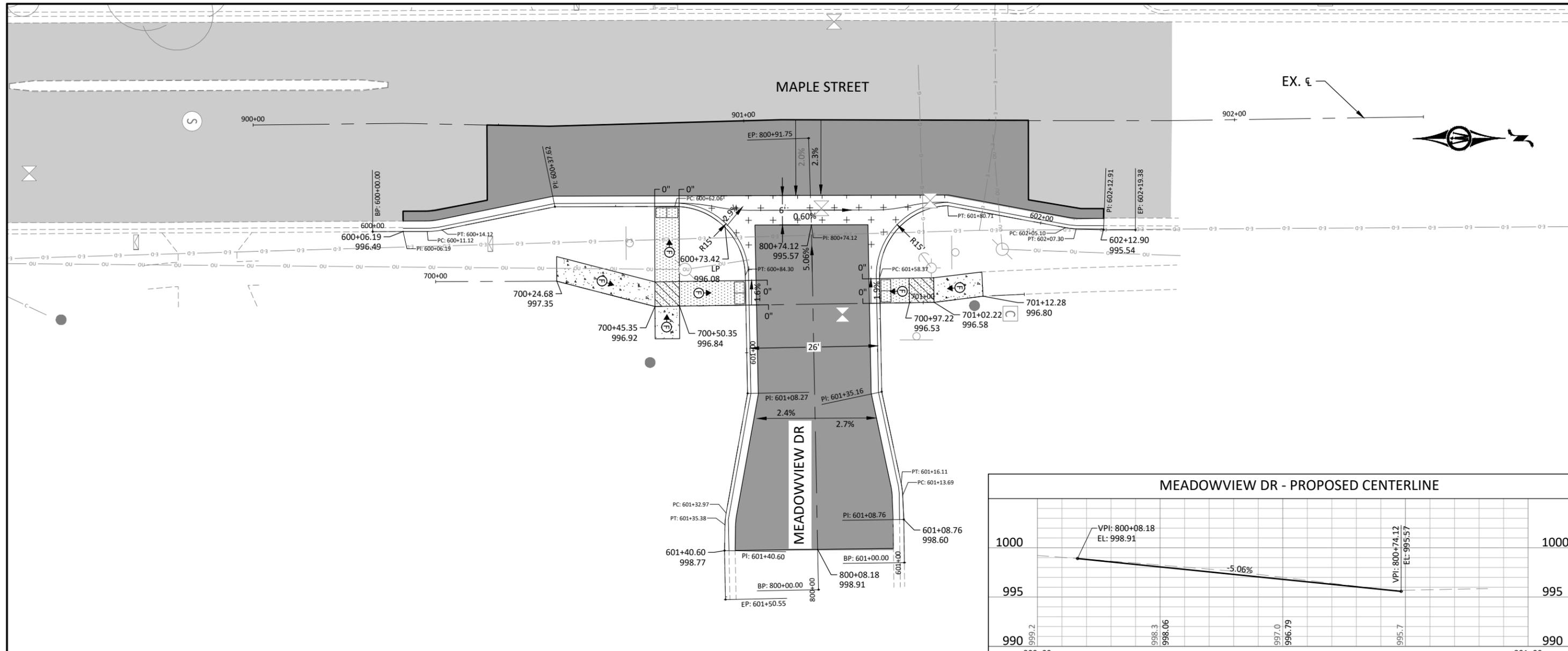
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NORTHFIELD, MINNESOTA
2026 JEFFERSON PKWY M&O AND MTST IMPROVEMENTS
INTERSECTION DETAILS
MAPLE STREET

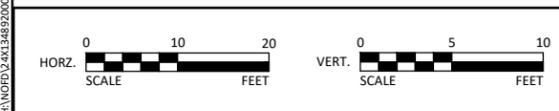
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INTERSECTION DETAILS LEGEND

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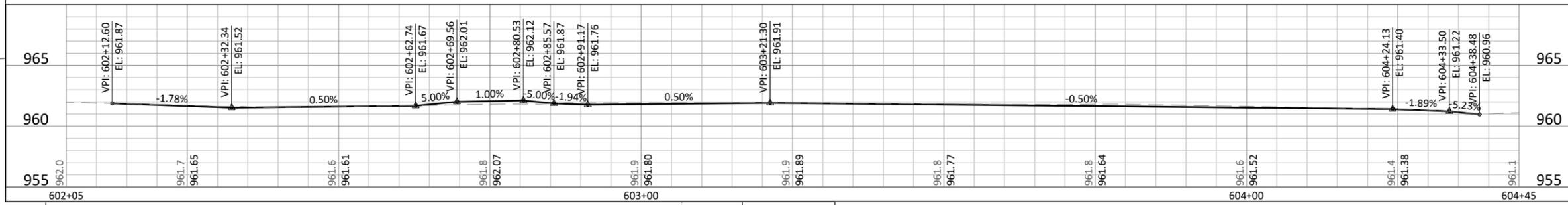
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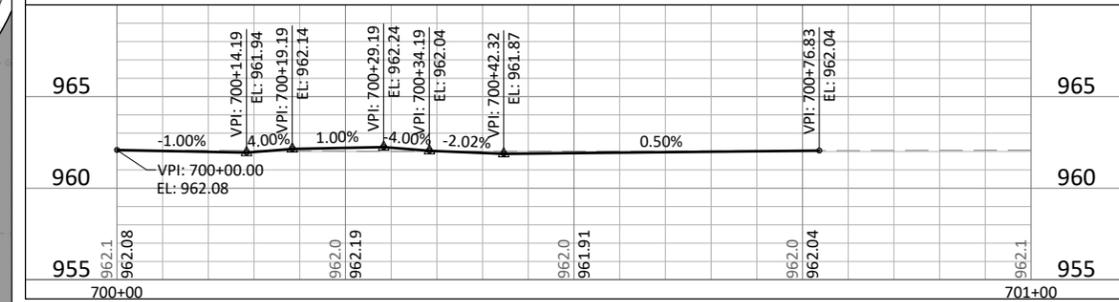
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PRAIRIE STREET & JEFFERSON PARKWAY - WEST CURB LIP PROFILE



PRAIRIE STREET PROPOSED CENTERLINE PROFILE



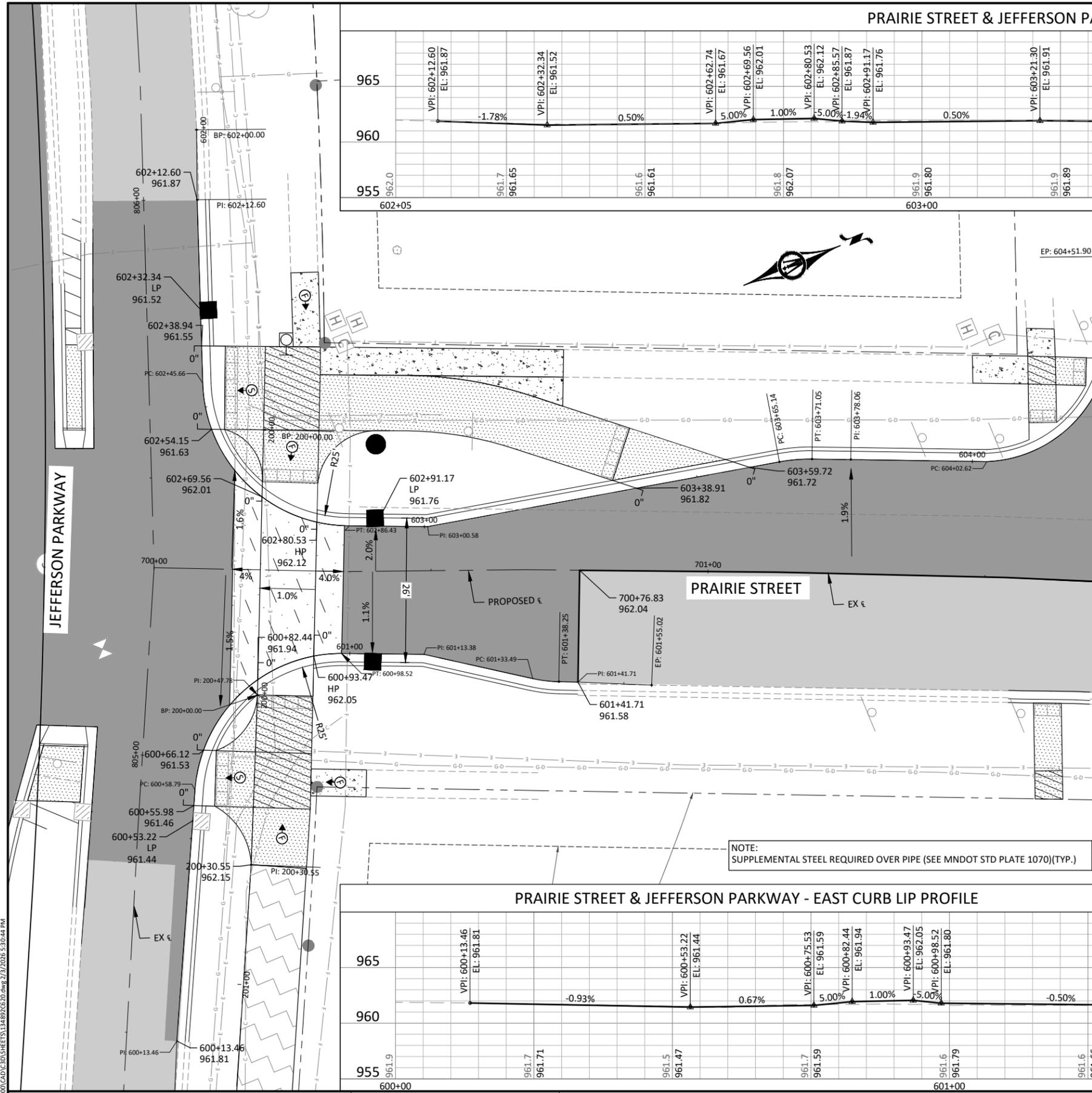
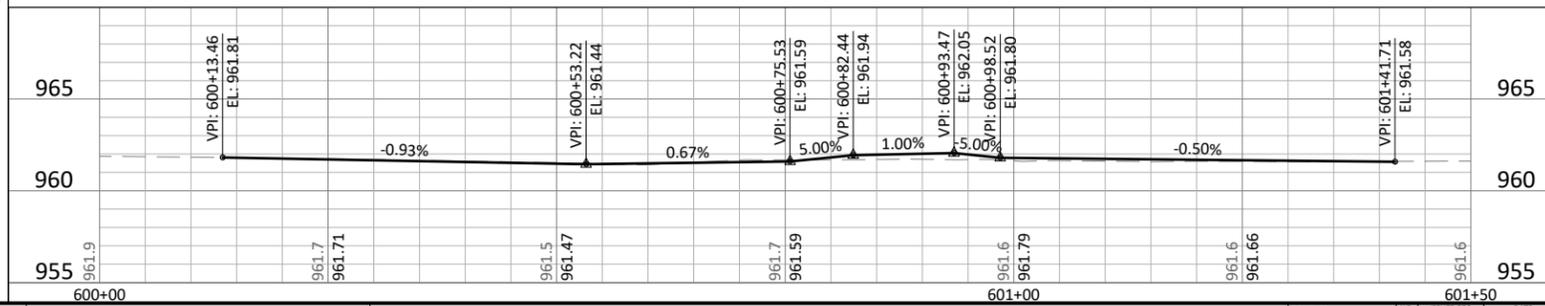
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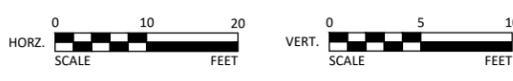
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 - ALL CURB TAPERS SHALL BE 3' TO FULL HEIGHT CURB UNLESS NOTED OTHERWISE.

NOTE:
SUPPLEMENTAL STEEL REQUIRED OVER PIPE (SEE MNDOT STD PLATE 1070)(TYP.)

PRAIRIE STREET & JEFFERSON PARKWAY - EAST CURB LIP PROFILE



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JASON A. MALECHA, P.E.
LIC. NO. 57151 DATE MM/DD/YYYY



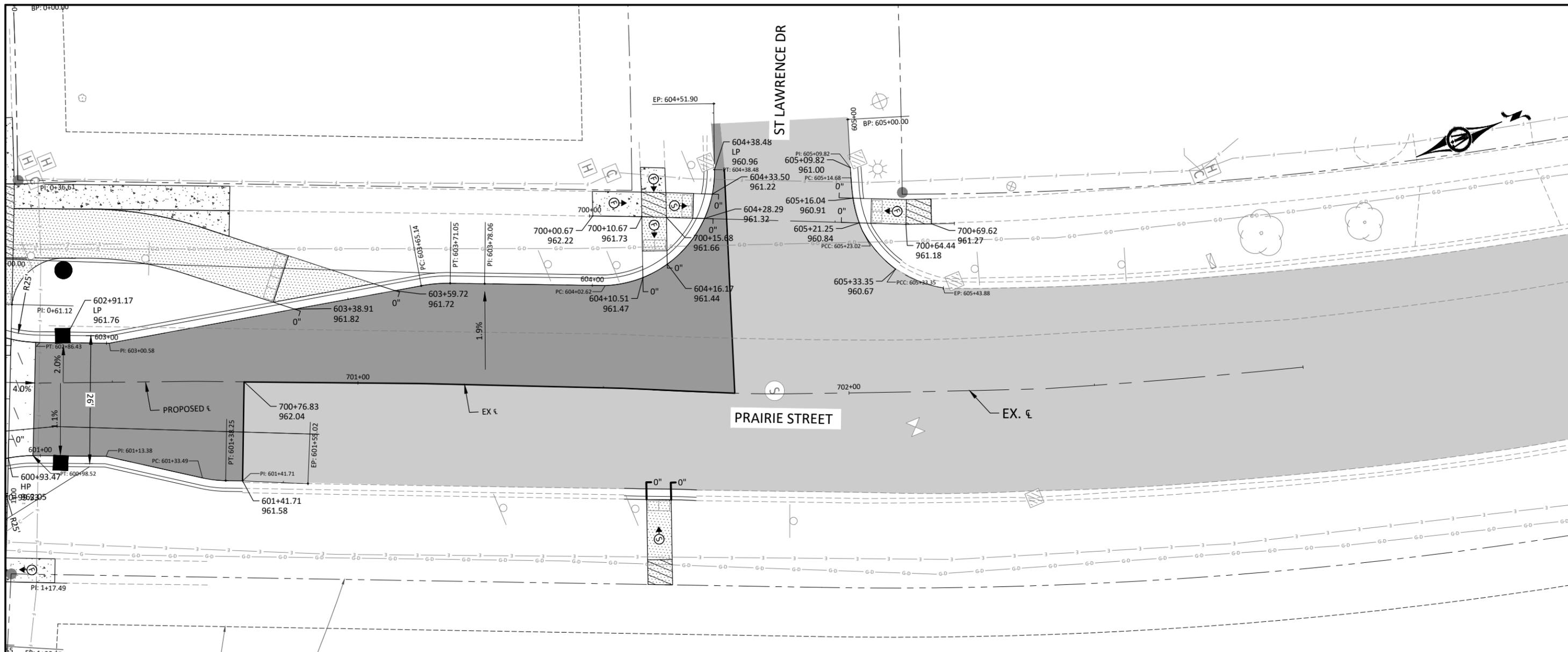
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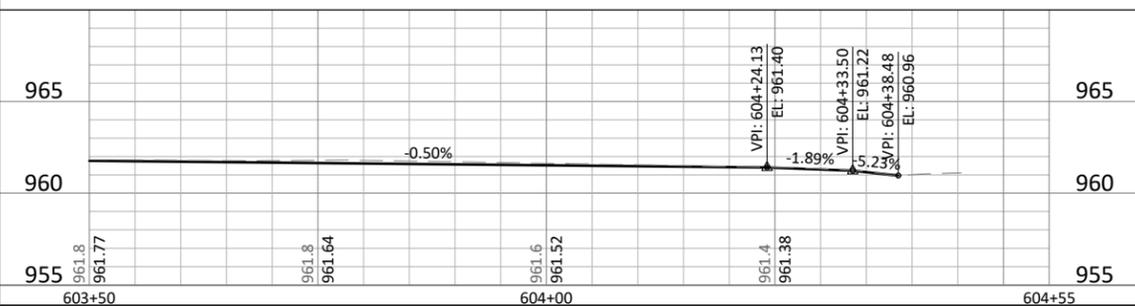
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NORTHFIELD, MINNESOTA
2026 JEFFERSON PKWY M&O AND MTST IMPROVEMENTS
INTERSECTION DETAILS
PRAIRIE STREET

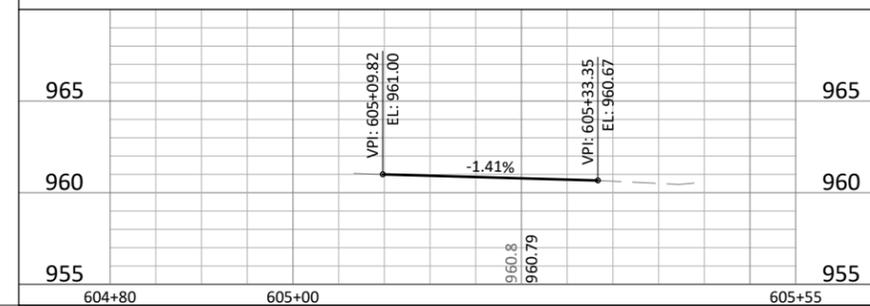
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PRAIRIE ST & ST LAWRENCE DR - SOUTHWEST CURB LIP PROFILE



PRAIRIE ST & ST LAWRENCE DR - NORTHWEST CURB LIP PROFILE

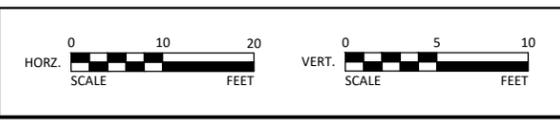


INTERSECTION DETAILS LEGEND

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- ANTICIPATED SIDEWALK SLOPE DIRECTION
- CONSTRUCT CONCRETE CURB & GUTTER
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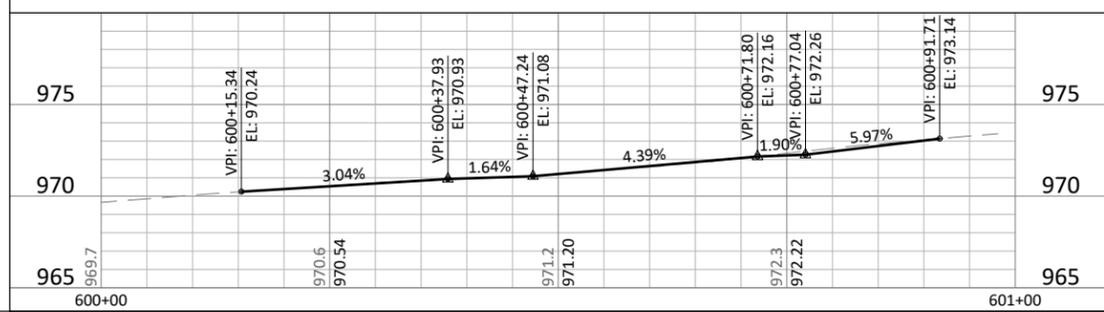
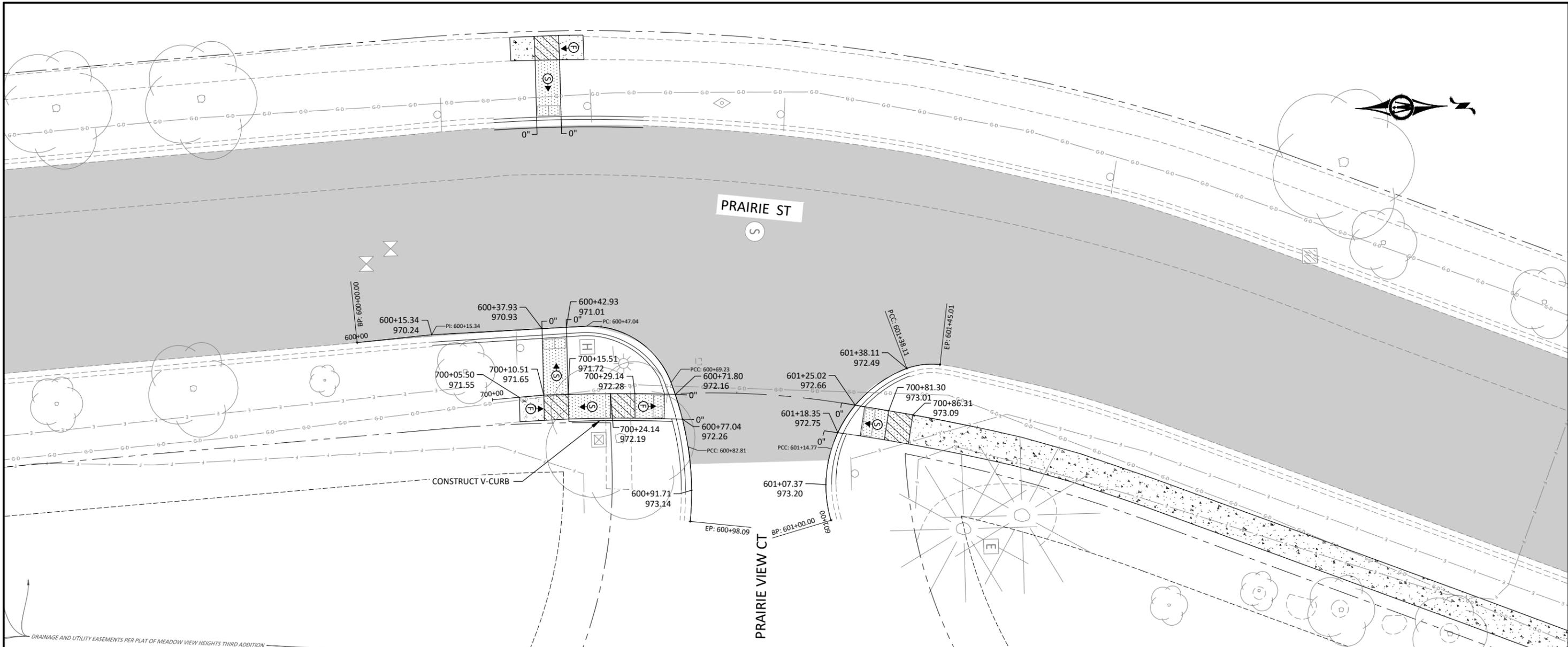
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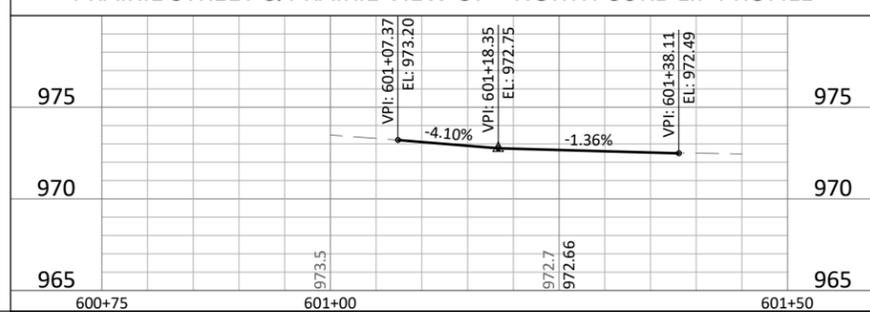
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NORTHFIELD, MINNESOTA
2026 JEFFERSON PKWY M&O AND MTST IMPROVEMENTS
INTERSECTION DETAILS
PRAIRIE STREET

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PRAIRIE STREET & PRAIRIE VIEW CT - NORTH CURB LIP PROFILE

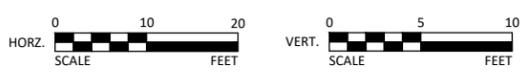


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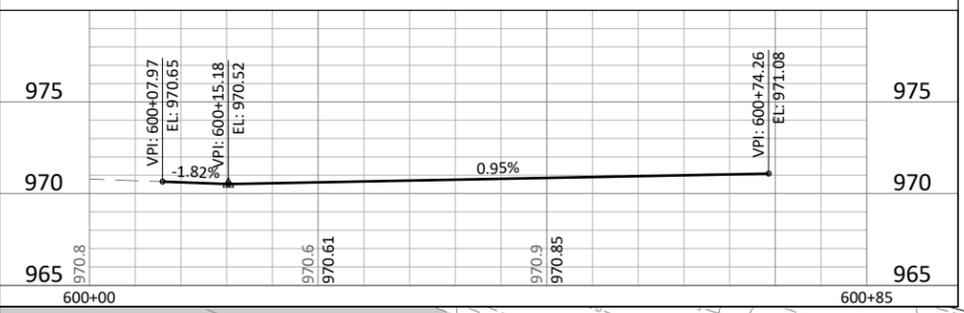
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INTERSECTION DETAILS

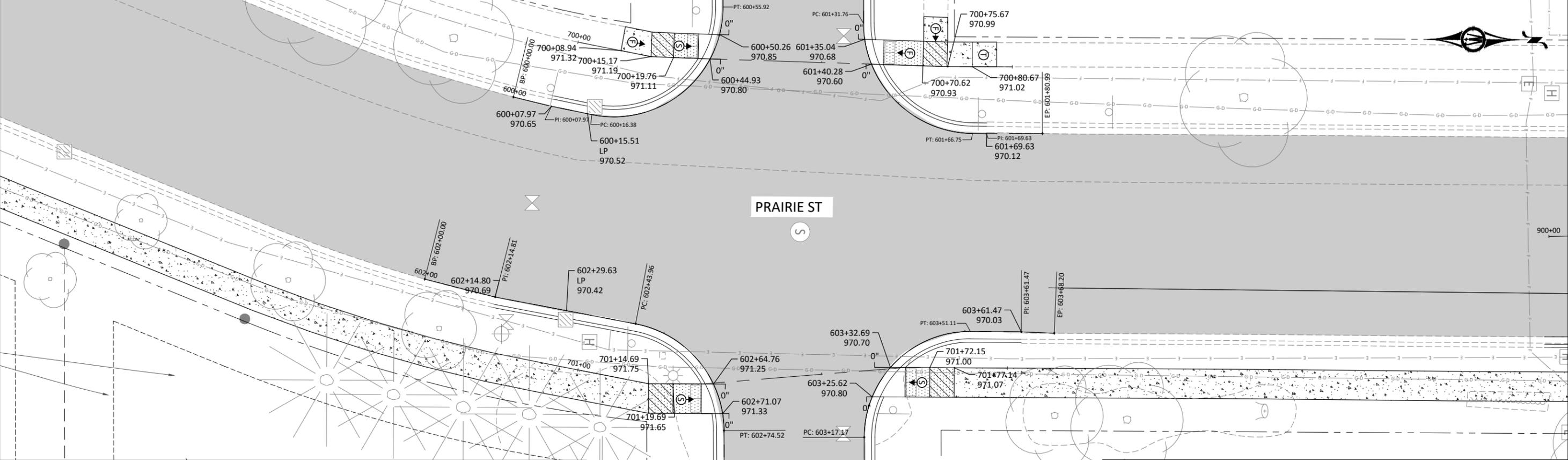
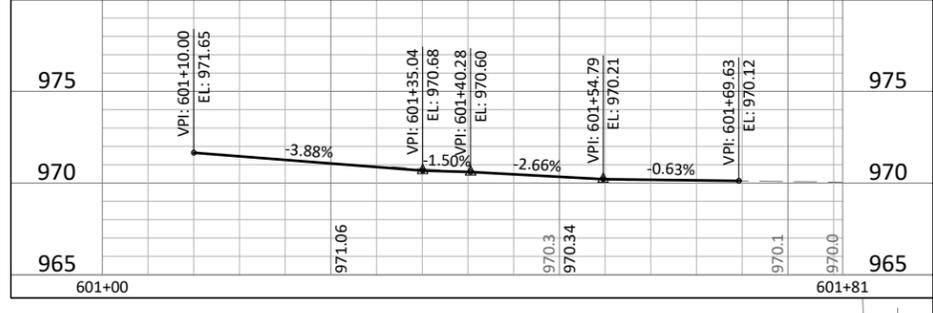
PRAIRIE STREET

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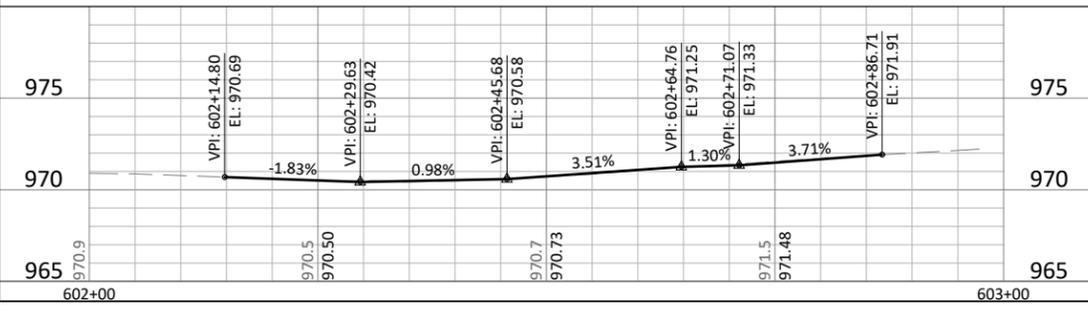
PRAIRIE STREET & ALDRICH DR - SOUTH CURB LIP PROFILE



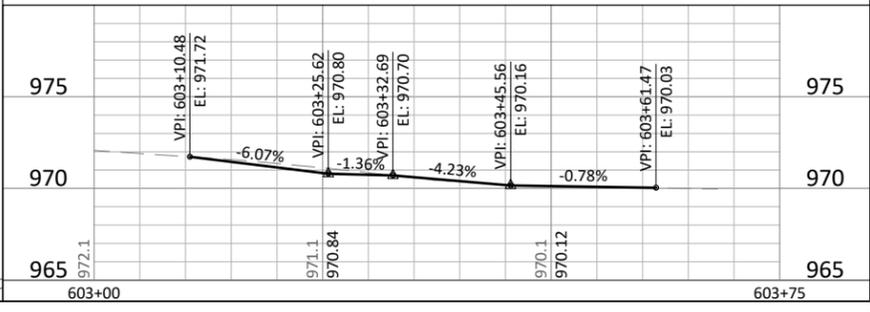
PRAIRIE STREET & ALDRICH DR - NORTH CURB LIP PROFILE



PRAIRIE STREET & PRAIRIE CIR - SOUTH CURB LIP PROFILE



PRAIRIE STREET & PRAIRIE CIR - NORTH CURB LIP PROFILE



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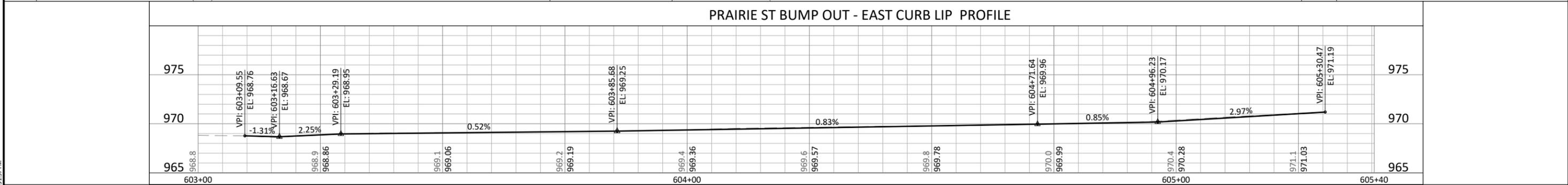
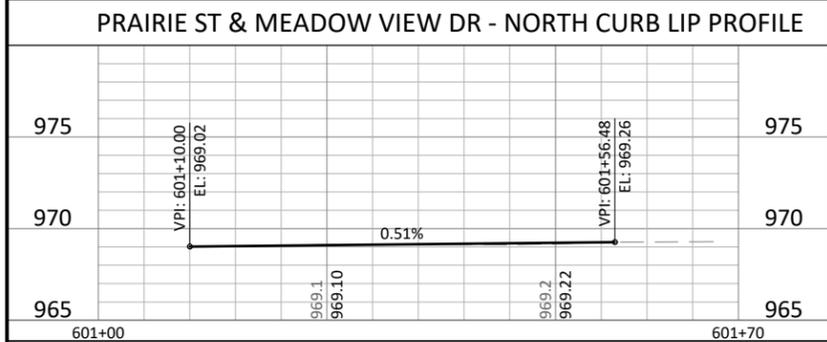
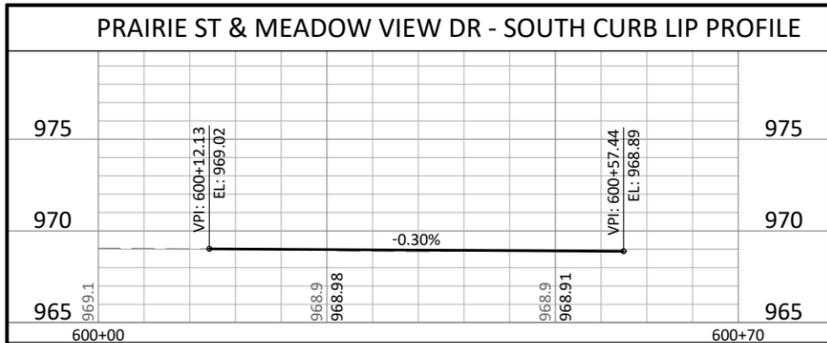
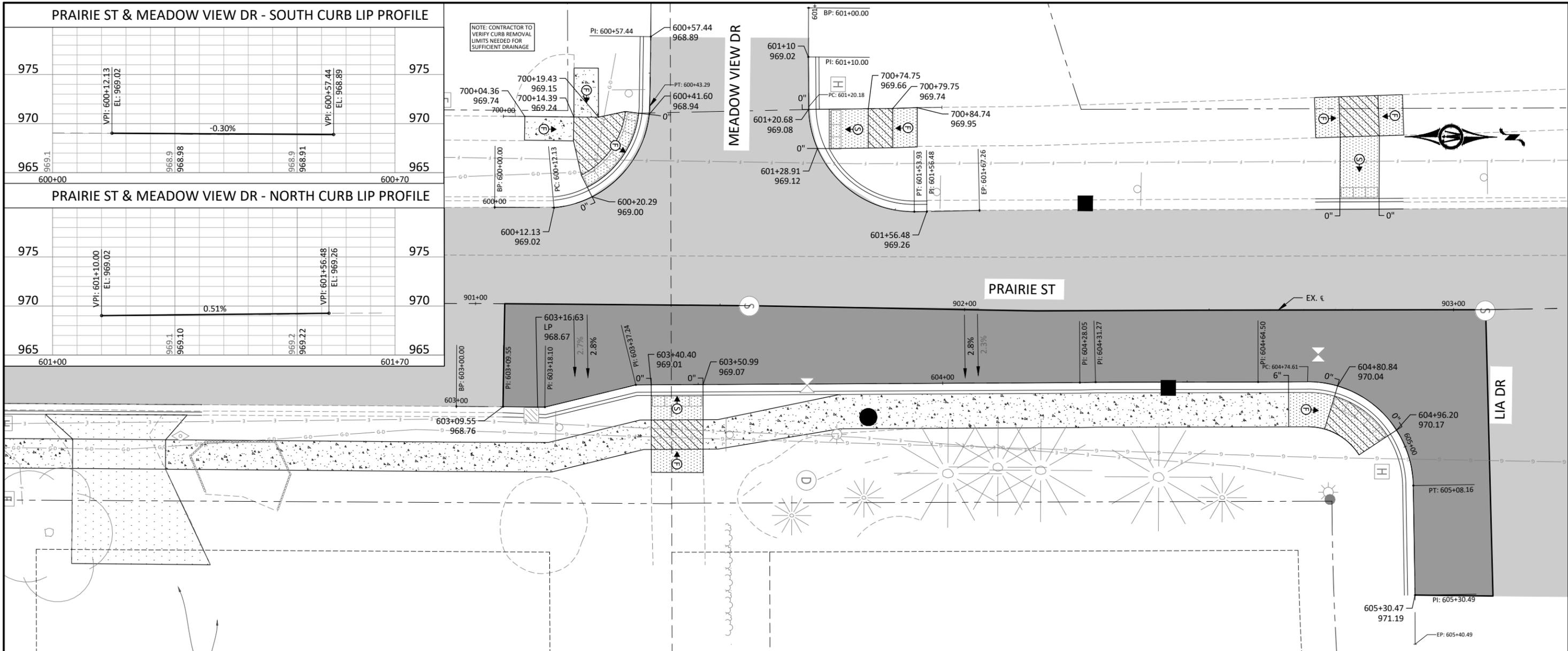
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INTERSECTION DETAILS
PRAIRIE STREET

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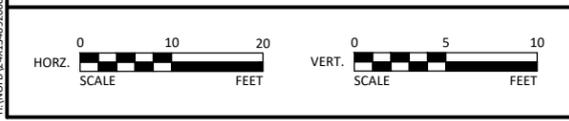
INTERSECTION DETAILS LEGEND

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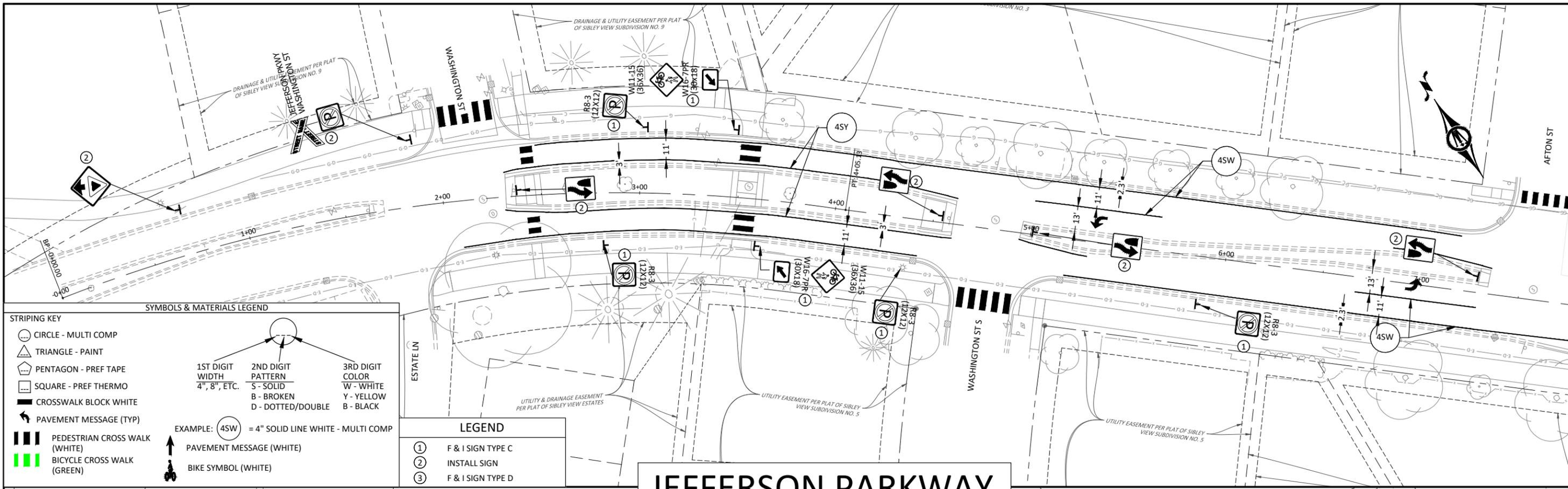
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NORTHFIELD, MINNESOTA
2026 JEFFERSON PKWY M&O AND MTST IMPROVEMENTS
INTERSECTION DETAILS
PRAIRIE STREET

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STRIPING KEY

- CIRCLE - MULTI COMP
- TRIANGLE - PAINT
- PENTAGON - PREF TAPE
- SQUARE - PREF THERMO
- CROSSWALK BLOCK WHITE
- PAVEMENT MESSAGE (TYP)
- PEDESTRIAN CROSS WALK (WHITE)
- BICYCLE CROSS WALK (GREEN)

SYMBOLS & MATERIALS LEGEND

1ST DIGIT WIDTH 4", 8", ETC.	2ND DIGIT PATTERN S - SOLID B - BROKEN D - DOTTED/DOUBLE	3RD DIGIT COLOR W - WHITE Y - YELLOW B - BLACK
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EXAMPLE: (4SW) = 4" SOLID LINE WHITE - MULTI COMP

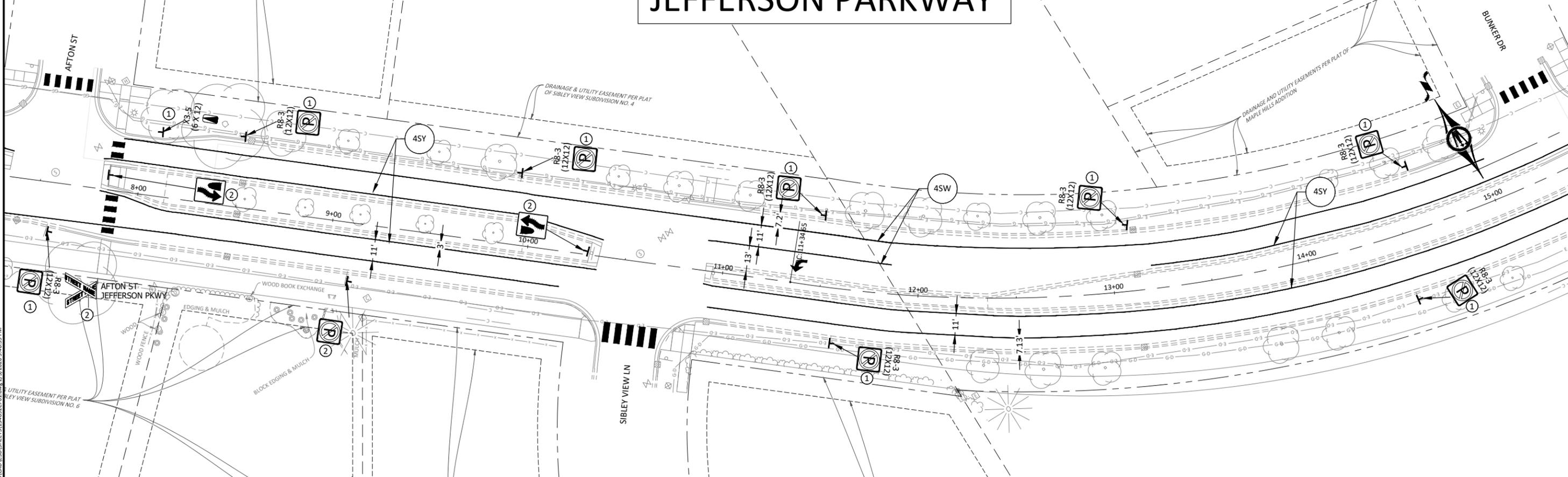
PAVEMENT MESSAGE (WHITE)

BIKE SYMBOL (WHITE)

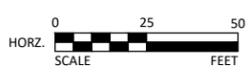
LEGEND

- (1) F & I SIGN TYPE C
- (2) INSTALL SIGN
- (3) F & I SIGN TYPE D

JEFFERSON PARKWAY



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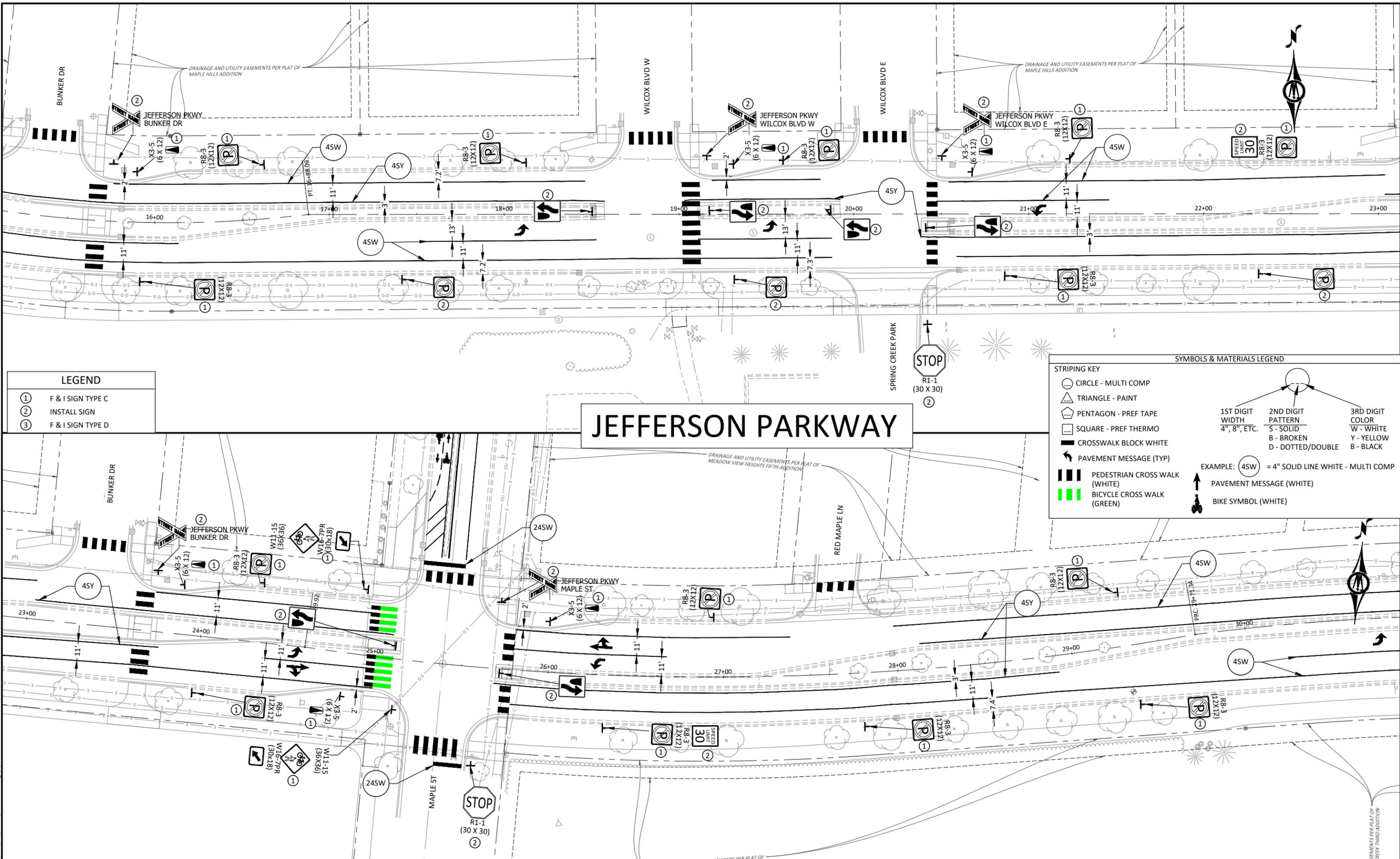
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NORTHFIELD, MINNESOTA
 2026 JEFFERSON PKWY M&O AND MTST IMPROVEMENTS
 SIGNING & STRIPING
 JEFFERSON PARKWAY

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LEGEND	
①	F & I SIGN TYPE C
②	INSTALL SIGN
③	F & I SIGN TYPE D

STRIPING KEY		SYMBOLS & MATERIALS LEGEND		
○	CIRCLE - MULTI COMP	1ST DIGIT WIDTH 4", 8", ETC.	2ND DIGIT PATTERN S - SOLID B - BROKEN D - DOTTED/DOUBLE	3RD DIGIT COLOR W - WHITE Y - YELLOW B - BLACK
△	TRIANGLE - PAINT			
⬠	PENTAGON - PREF TAPE			
◻	SQUARE - PREF THERMO			
▬	CROSSWALK BLOCK WHITE	EXAMPLE: (4SW) = 4" SOLID LINE WHITE - MULTI COMP		
↔	PAVEMENT MESSAGE (TYP)	PAVEMENT MESSAGE (WHITE)		
▬▬	PEDESTRIAN CROSS WALK (WHITE)	BIKE SYMBOL (WHITE)		
▬▬	BICYCLE CROSS WALK (GREEN)			

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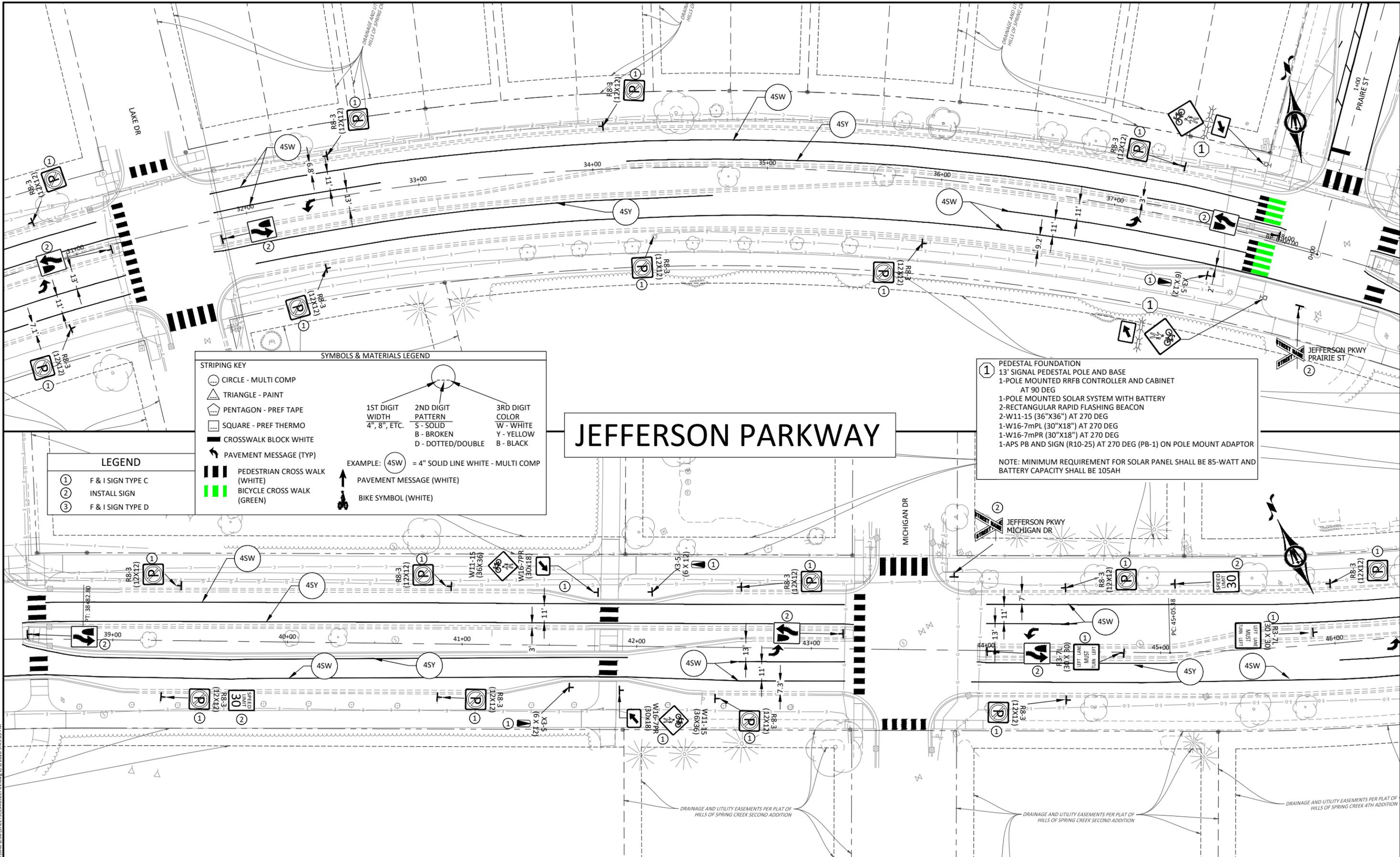
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NORTHFIELD, MINNESOTA
 2026 JEFFERSON PKWY M&O AND MTST IMPROVEMENTS
 SIGNING & STRIPING
 JEFFERSON PARKWAY

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SYMBOLS & MATERIALS LEGEND

STRIPING KEY

- CIRCLE - MULTI COMP
- TRIANGLE - PAINT
- PENTAGON - PREF TAPE
- SQUARE - PREF THERMO
- CROSSWALK BLOCK WHITE
- PAVEMENT MESSAGE (TYP)
- PEDESTRIAN CROSS WALK (WHITE)
- BICYCLE CROSS WALK (GREEN)

LEGEND

- 1 F & I SIGN TYPE C
- 2 INSTALL SIGN
- 3 F & I SIGN TYPE D

EXAMPLE: 4SW = 4" SOLID LINE WHITE - MULTI COMP

1ST DIGIT WIDTH
4", 8", ETC.

2ND DIGIT PATTERN
S - SOLID
B - BROKEN
D - DOTTED/DOUBLE

3RD DIGIT COLOR
W - WHITE
Y - YELLOW
B - BLACK

EXAMPLE: 4SW = 4" SOLID LINE WHITE - MULTI COMP

PAVEMENT MESSAGE (WHITE)

BIKE SYMBOL (WHITE)

JEFFERSON PARKWAY

1 PEDESTAL FOUNDATION
13' SIGNAL PEDESTAL POLE AND BASE
1-POLE MOUNTED RRFB CONTROLLER AND CABINET
AT 90 DEG
1-POLE MOUNTED SOLAR SYSTEM WITH BATTERY
2-RECTANGULAR RAPID FLASHING BEACON
2-W11-15 (36"x36") AT 270 DEG
1-W16-7mPL (30"x18") AT 270 DEG
1-W16-7mPR (30"x18") AT 270 DEG
1-APS PB AND SIGN (R10-25) AT 270 DEG (PB-1) ON POLE MOUNT ADAPTOR

NOTE: MINIMUM REQUIREMENT FOR SOLAR PANEL SHALL BE 85-WATT AND BATTERY CAPACITY SHALL BE 105AH

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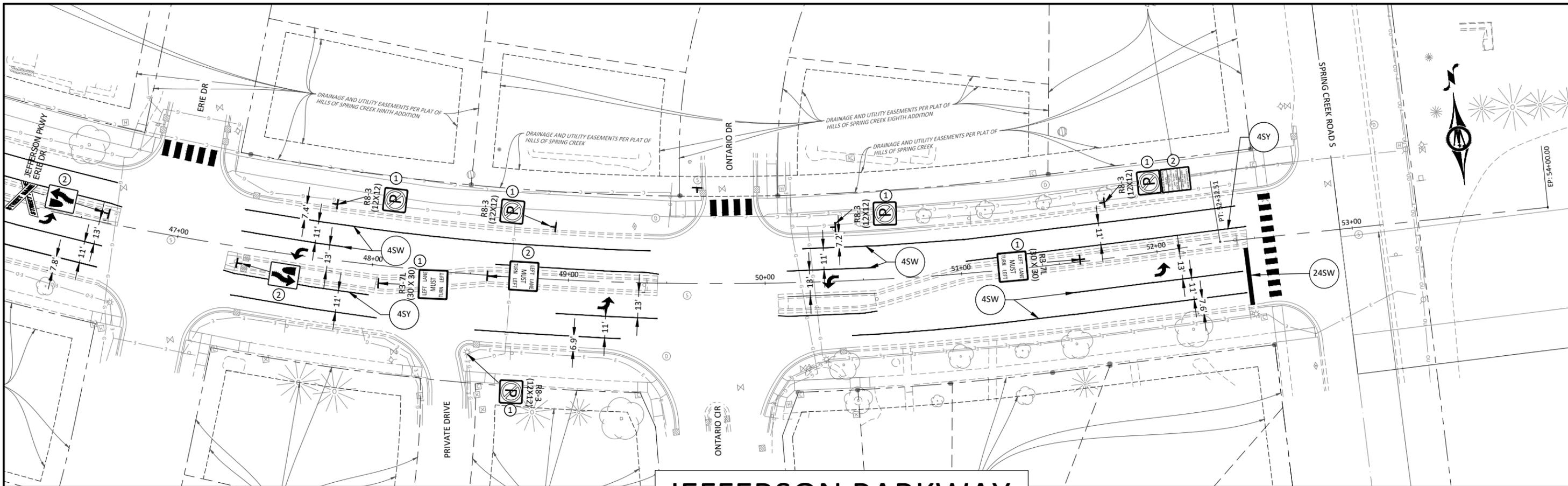
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NORTHFIELD, MINNESOTA
2026 JEFFERSON PKWY M&O AND MTST IMPROVEMENTS
SIGNING & STRIPING
JEFFERSON PARKWAY

SHEET
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101
OF
140



JEFFERSON PARKWAY

LEGEND	
①	F & I SIGN TYPE C
②	INSTALL SIGN
③	F & I SIGN TYPE D

STRIPING KEY

- CIRCLE - MULTI COMP
- TRIANGLE - PAINT
- PENTAGON - PREF TAPE
- SQUARE - PREF THERMO
- CROSSWALK BLOCK WHITE
- PAVEMENT MESSAGE (TYP)
- PEDESTRIAN CROSS WALK (WHITE)
- BICYCLE CROSS WALK (GREEN)

SYMBOLS & MATERIALS LEGEND

1ST DIGIT WIDTH 4", 8", ETC.	2ND DIGIT PATTERN S - SOLID B - BROKEN D - DOTTED/DOUBLE	3RD DIGIT COLOR W - WHITE Y - YELLOW B - BLACK
4	S	W

EXAMPLE: 4SW = 4" SOLID LINE WHITE - MULTI COMP

↑ PAVEMENT MESSAGE (WHITE)

🚲 BIKE SYMBOL (WHITE)

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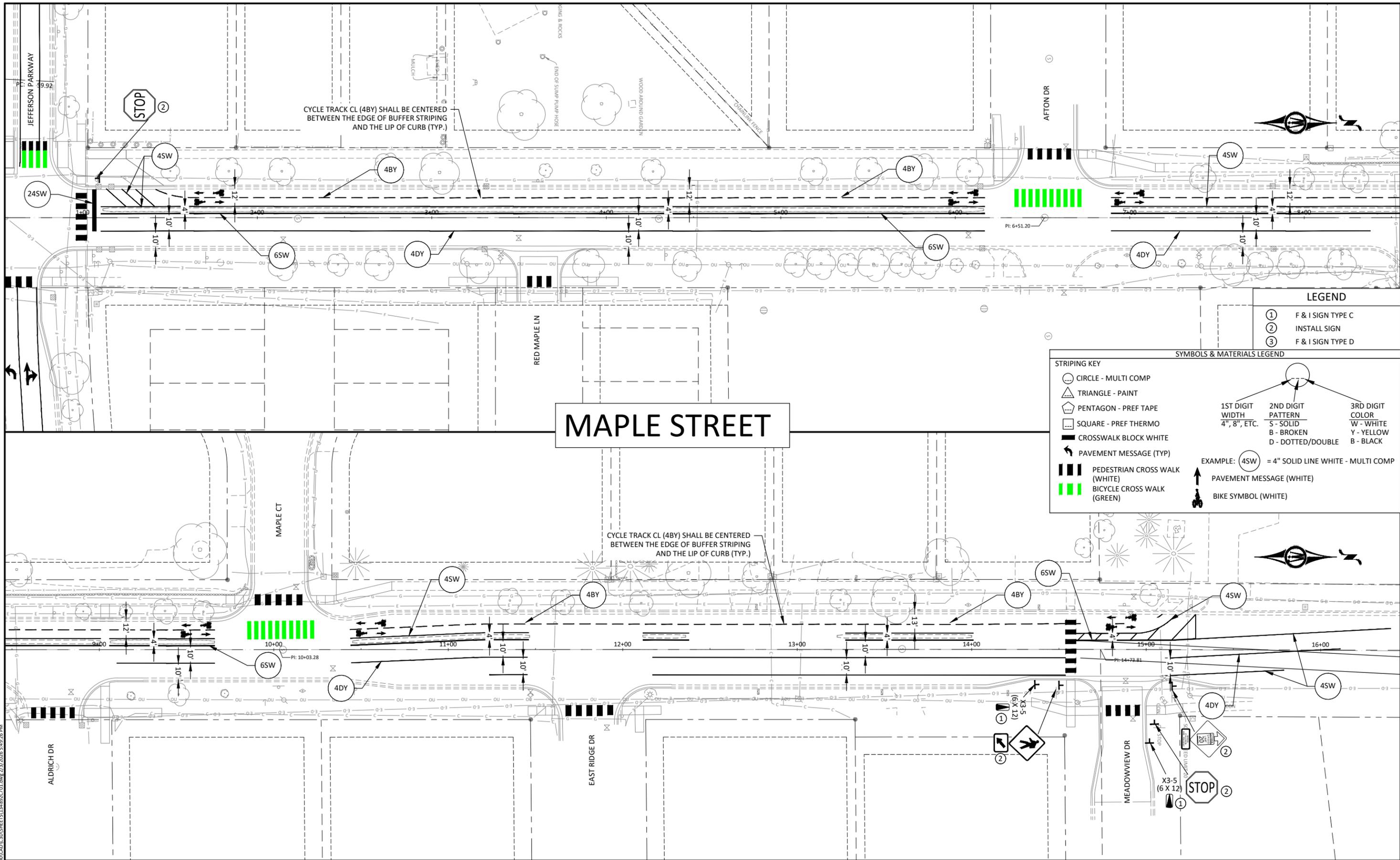
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NORTHFIELD, MINNESOTA
 2026 JEFFERSON PKWY M&O AND MTST IMPROVEMENTS
 SIGNING & STRIPING
 JEFFERSON PARKWAY

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 OF
 140



CYCLE TRACK CL (4BY) SHALL BE CENTERED BETWEEN THE EDGE OF BUFFER STRIPING AND THE LIP OF CURB (TYP.)

MAPLE STREET

CYCLE TRACK CL (4BY) SHALL BE CENTERED BETWEEN THE EDGE OF BUFFER STRIPING AND THE LIP OF CURB (TYP.)



LEGEND

①	F & I SIGN TYPE C
②	INSTALL SIGN
③	F & I SIGN TYPE D

SYMBOLS & MATERIALS LEGEND

STRIPING KEY		
	CIRCLE - MULTI COMP	
	TRIANGLE - PAINT	
	PENTAGON - PREF TAPE	
	SQUARE - PREF THERMO	
	CROSSWALK BLOCK WHITE	
	PAVEMENT MESSAGE (TYP)	
	PEDESTRIAN CROSS WALK (WHITE)	
	BICYCLE CROSS WALK (GREEN)	

1ST DIGIT WIDTH	2ND DIGIT PATTERN	3RD DIGIT COLOR
4", 8", ETC.	S - SOLID B - BROKEN D - DOTTED/DOUBLE	W - WHITE Y - YELLOW B - BLACK

EXAMPLE: (4SW) = 4" SOLID LINE WHITE - MULTI COMP

	PAVEMENT MESSAGE (WHITE)
	BIKE SYMBOL (WHITE)

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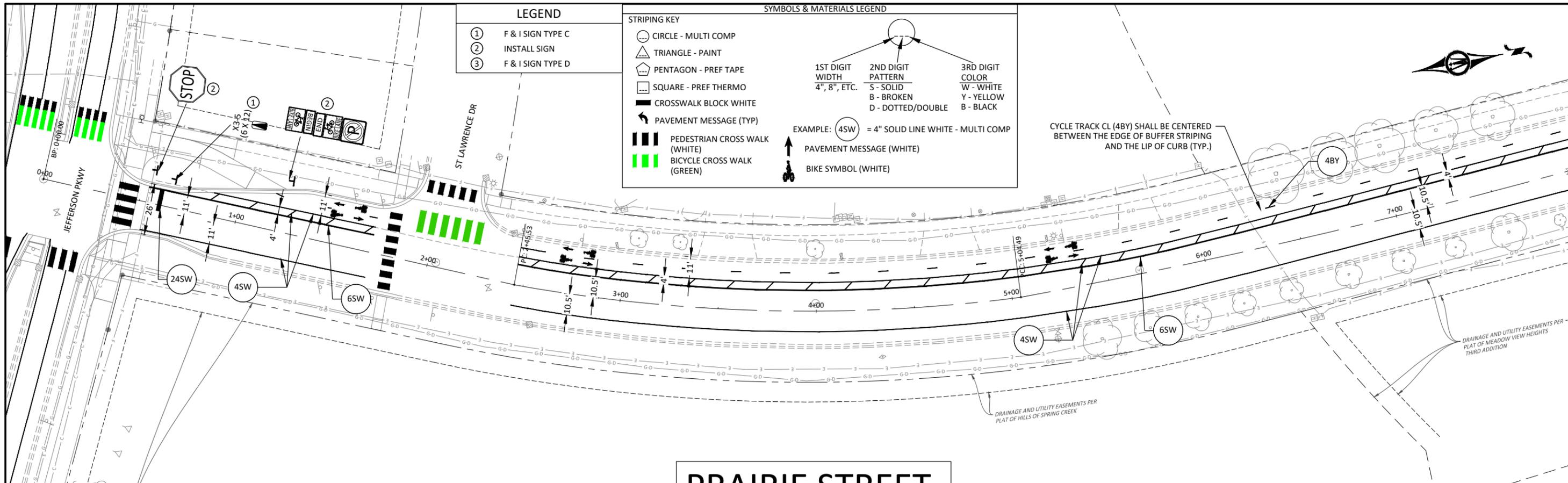
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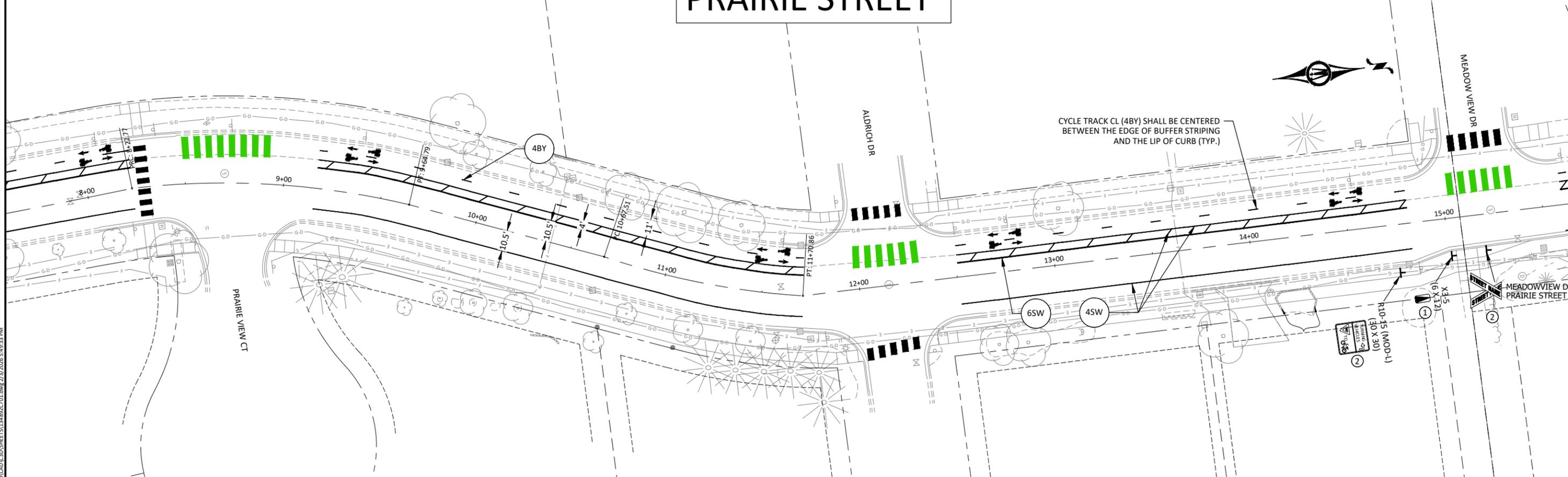
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2026 JEFFERSON PKWY M&O AND MTST IMPROVEMENTS
SIGNING & STRIPING
MAPLE STREET

SHEET
C7.05
103
OF
140



PRAIRIE STREET



- LEGEND**
- ① F & I SIGN TYPE C
 - ② INSTALL SIGN
 - ③ F & I SIGN TYPE D

STRIPING KEY

- CIRCLE - MULTI COMP
- △ TRIANGLE - PAINT
- ⬠ PENTAGON - PREF TAPE
- SQUARE - PREF THERMO
- ▬ CROSSWALK BLOCK WHITE
- ↩ PAVEMENT MESSAGE (TYP)
- ▬ PEDESTRIAN CROSS WALK (WHITE)
- ▬ BICYCLE CROSS WALK (GREEN)

SYMBOLS & MATERIALS LEGEND

1ST DIGIT WIDTH	2ND DIGIT PATTERN	3RD DIGIT COLOR
4", 8", ETC.	S - SOLID B - BROKEN D - DOTTED/DOUBLE	W - WHITE Y - YELLOW B - BLACK

EXAMPLE: 4SW = 4" SOLID LINE WHITE - MULTI COMP

↑ PAVEMENT MESSAGE (WHITE)

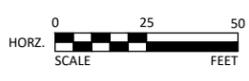
🚲 BIKE SYMBOL (WHITE)

CYCLE TRACK CL (4BY) SHALL BE CENTERED BETWEEN THE EDGE OF BUFFER STRIPING AND THE LIP OF CURB (TYP.)

DRAINAGE AND UTILITY EASEMENTS PER PLAT OF HILLS OF SPRING CREEK

CYCLE TRACK CL (4BY) SHALL BE CENTERED BETWEEN THE EDGE OF BUFFER STRIPING AND THE LIP OF CURB (TYP.)

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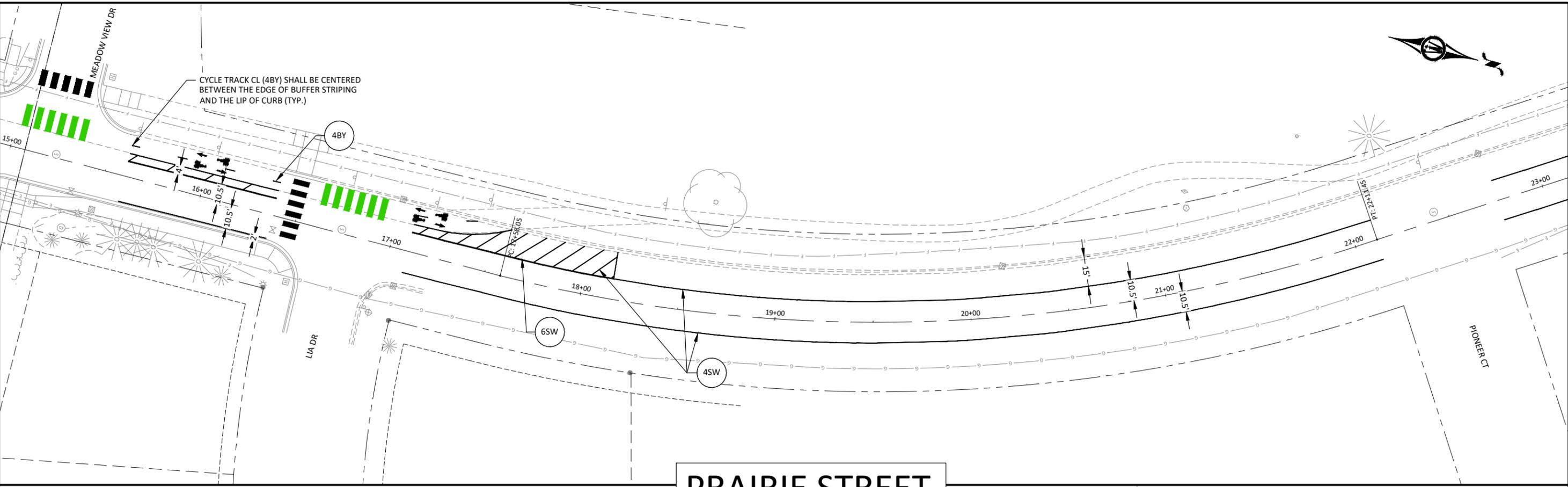
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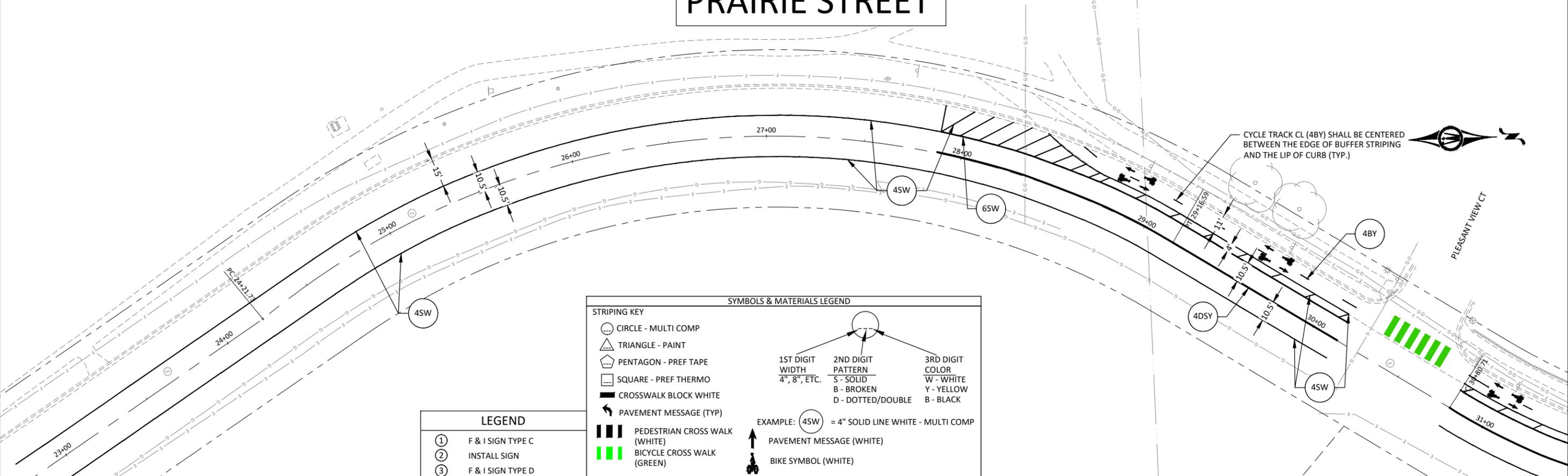
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SIGNING & STRIPING
PRAIRIE STREET

SHEET
C7.06
104
OF
140



PRAIRIE STREET



STRIPING KEY		
	CIRCLE - MULTI COMP	
	TRIANGLE - PAINT	
	PENTAGON - PREF TAPE	
	SQUARE - PREF THERMO	
	CROSSWALK BLOCK WHITE	
	PAVEMENT MESSAGE (TYP)	
	PEDESTRIAN CROSS WALK (WHITE)	
	BICYCLE CROSS WALK (GREEN)	

SYMBOLS & MATERIALS LEGEND		
1ST DIGIT WIDTH 4", 8", ETC.	2ND DIGIT PATTERN S - SOLID B - BROKEN D - DOTTED/DOUBLE	3RD DIGIT COLOR W - WHITE Y - YELLOW B - BLACK
EXAMPLE: = 4" SOLID LINE WHITE - MULTI COMP		
	PAVEMENT MESSAGE (WHITE)	
	BIKE SYMBOL (WHITE)	

LEGEND	
①	F & I SIGN TYPE C
②	INSTALL SIGN
③	F & I SIGN TYPE D



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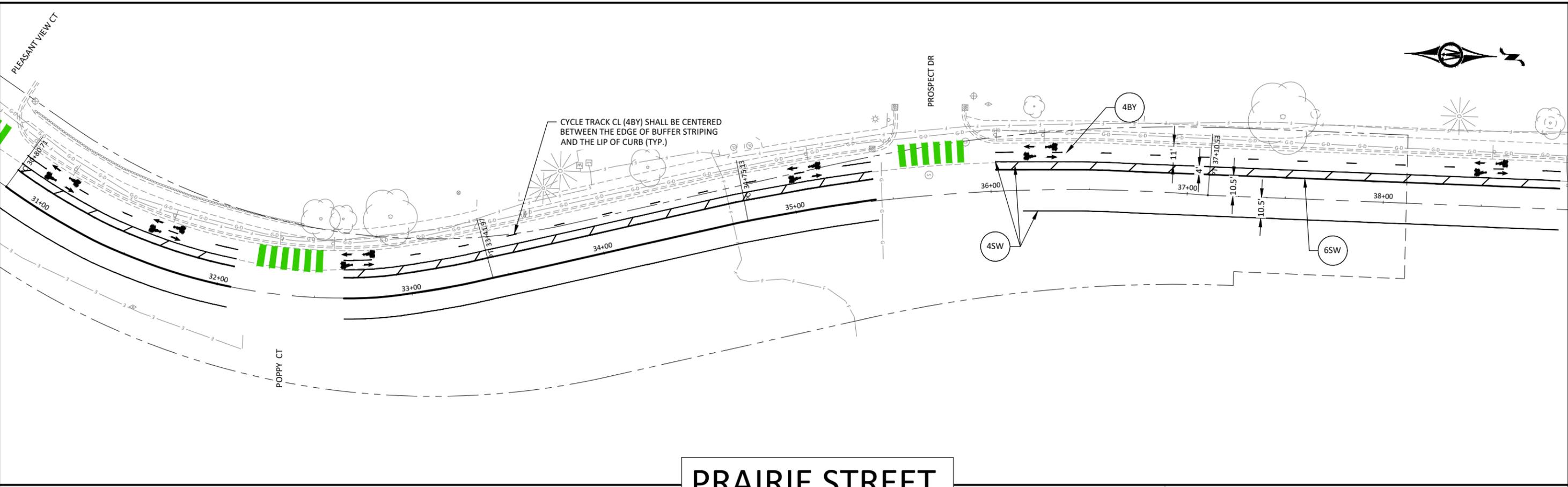


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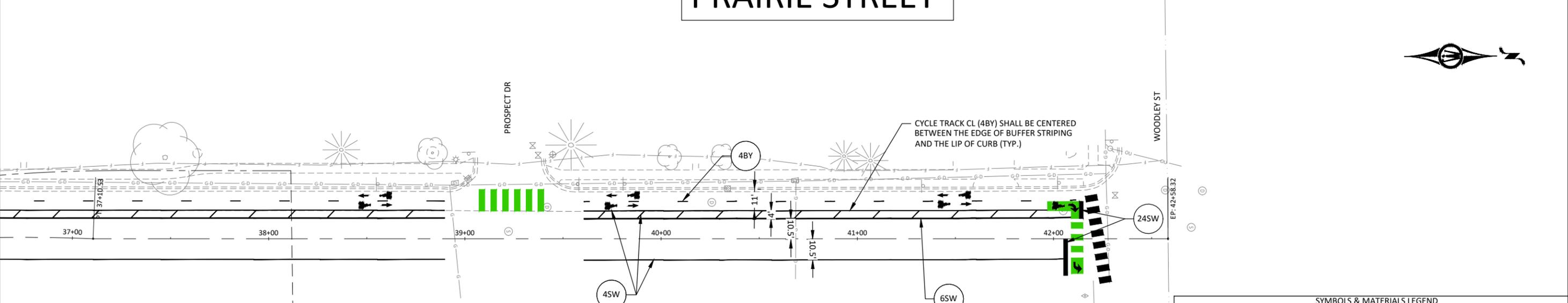
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PRAIRIE STREET

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PRAIRIE STREET



STRIPING KEY

- CIRCLE - MULTI COMP
- TRIANGLE - PAINT
- PENTAGON - PREF TAPE
- SQUARE - PREF THERMO
- CROSSWALK BLOCK WHITE
- PAVEMENT MESSAGE (TYP)
- PEDESTRIAN CROSS WALK (WHITE)
- BICYCLE CROSS WALK (GREEN)

SYMBOLS & MATERIALS LEGEND

1ST DIGIT WIDTH 4", 8", ETC.	2ND DIGIT PATTERN S - SOLID B - BROKEN D - DOTTED/DOUBLE	3RD DIGIT COLOR W - WHITE Y - YELLOW B - BLACK
4	S	W

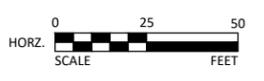
EXAMPLE: **4SW** = 4" SOLID LINE WHITE - MULTI COMP

PAVEMENT MESSAGE (WHITE)

BIKE SYMBOL (WHITE)

LEGEND

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②	INSTALL SIGN
③	F & I SIGN TYPE D



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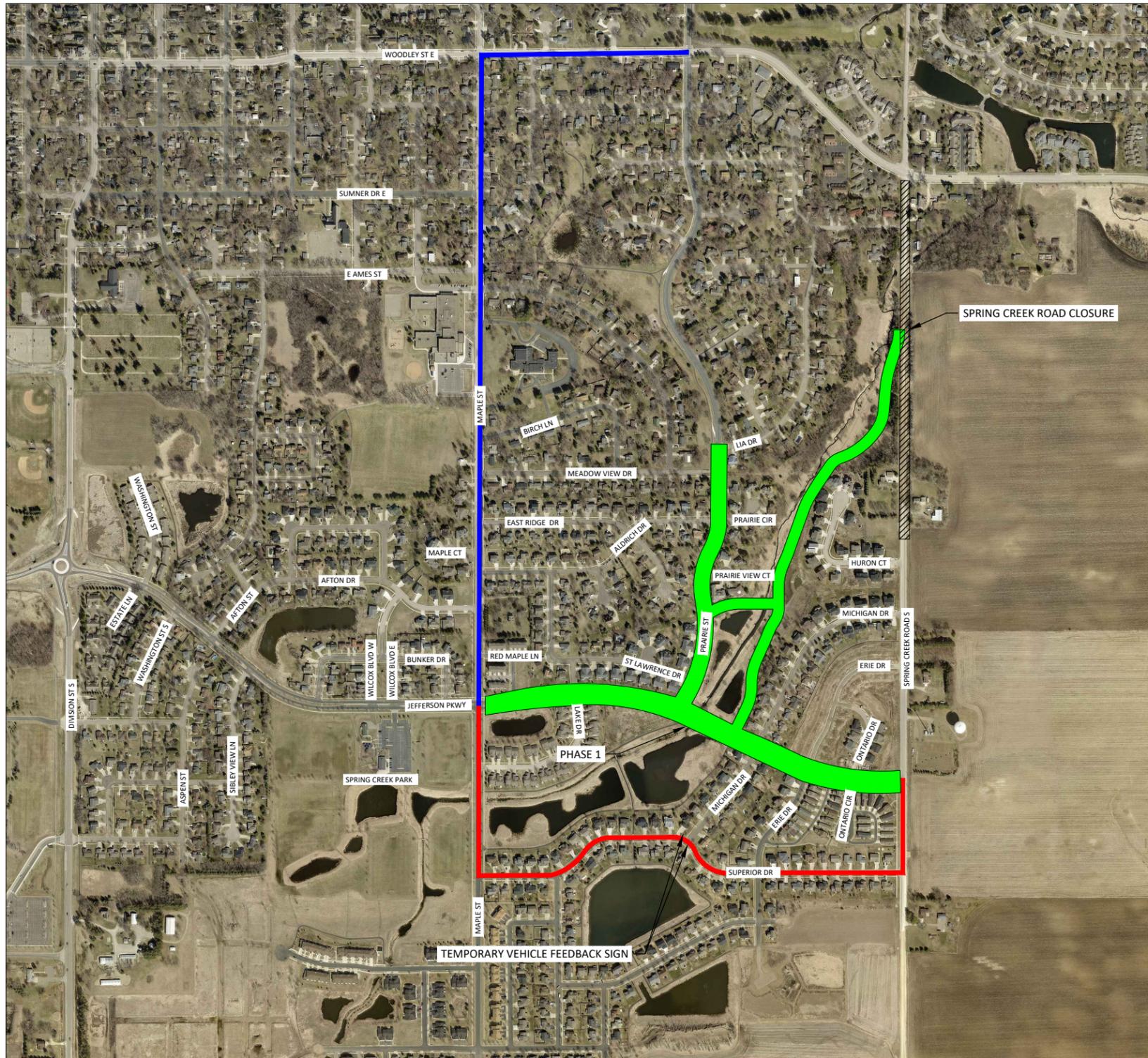


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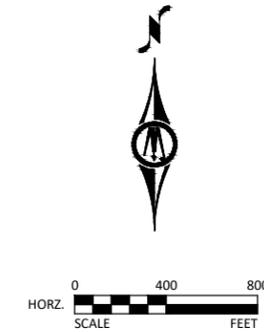
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SIGNING & STRIPING
PRAIRIE STREET

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LEGEND	
	PHASE 1
	JEFFERSON PARKWAY TRAFFIC DETOUR ROUTE
	PRAIRIE STREET TRAFFIC DETOUR ROUTE



TRAFFIC CONTROL NOTES
 THE CONTRACTOR MUST DEVELOP A DETAILED TRAFFIC CONTROL PLAN SHOWING ALL SIGNS AND DEVICES FOR EACH DETOUR WHICH FOLLOWS THE GENERAL DETOUR ROUTE SHOWN IN THE PLANS. DETOUR PLANS MUST BE SUBMITTED TO THE OWNER AND ENGINEER FOR REVIEW 14 DAYS PRIOR TO THE ROAD CLOSURE.

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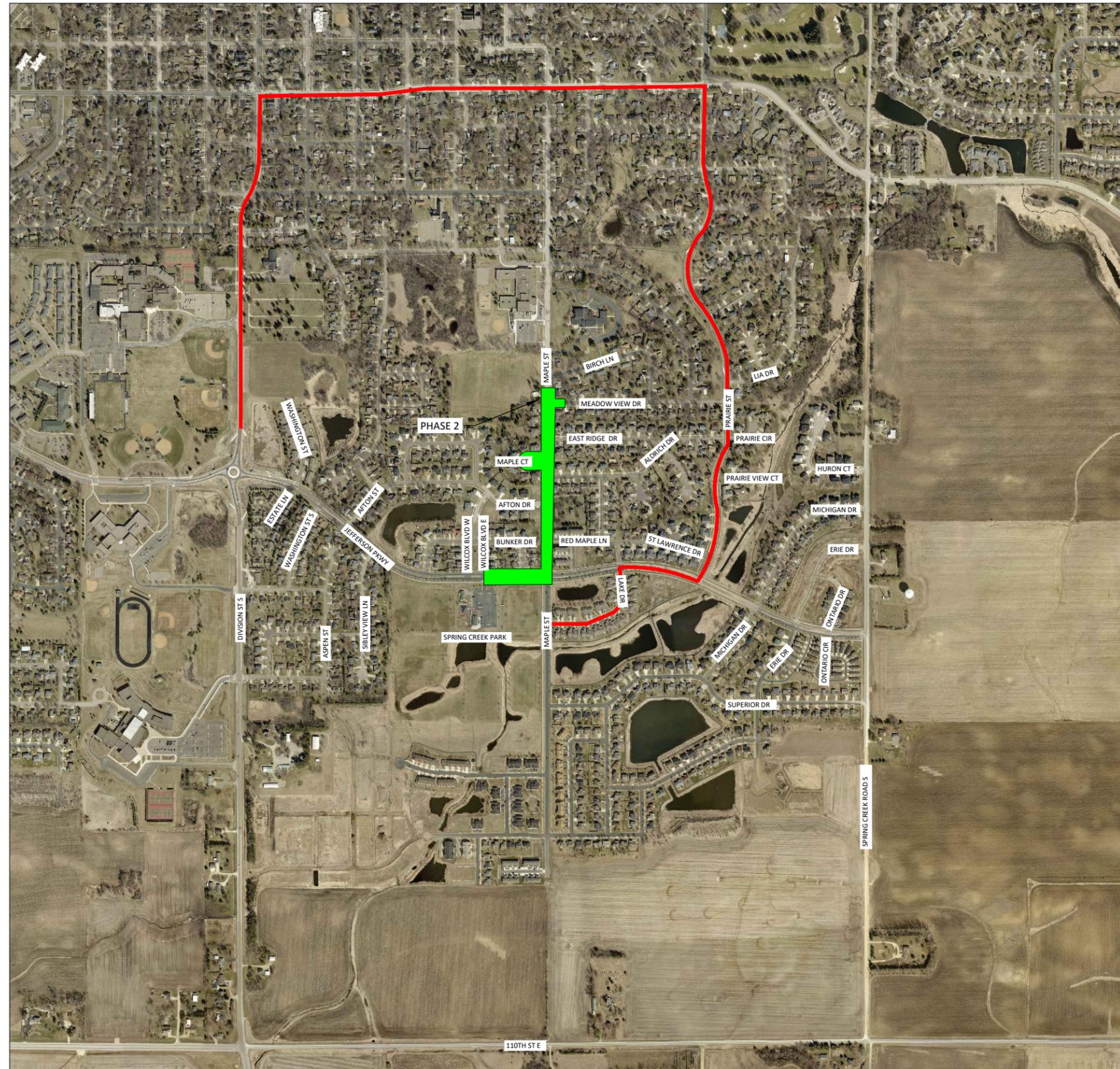
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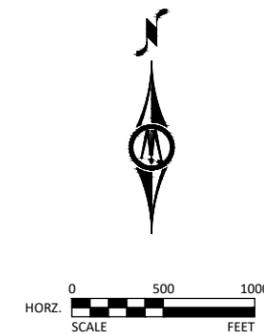
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 2026 JEFFERSON PKWY M&O AND MTST IMPROVEMENTS
 DETOUR PLAN
 PHASE 1

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LEGEND	
	PHASE 2
	TRAFFIC DETOUR ROUTE



TRAFFIC CONTROL NOTES
 THE CONTRACTOR MUST DEVELOP A DETAILED TRAFFIC CONTROL PLAN SHOWING ALL SIGNS AND DEVICES FOR EACH DETOUR WHICH FOLLOWS THE GENERAL DETOUR ROUTE SHOWN IN THE PLANS. DETOUR PLANS MUST BE SUBMITTED TO THE OWNER AND ENGINEER FOR REVIEW 14 DAYS PRIOR TO THE ROAD CLOSURE.

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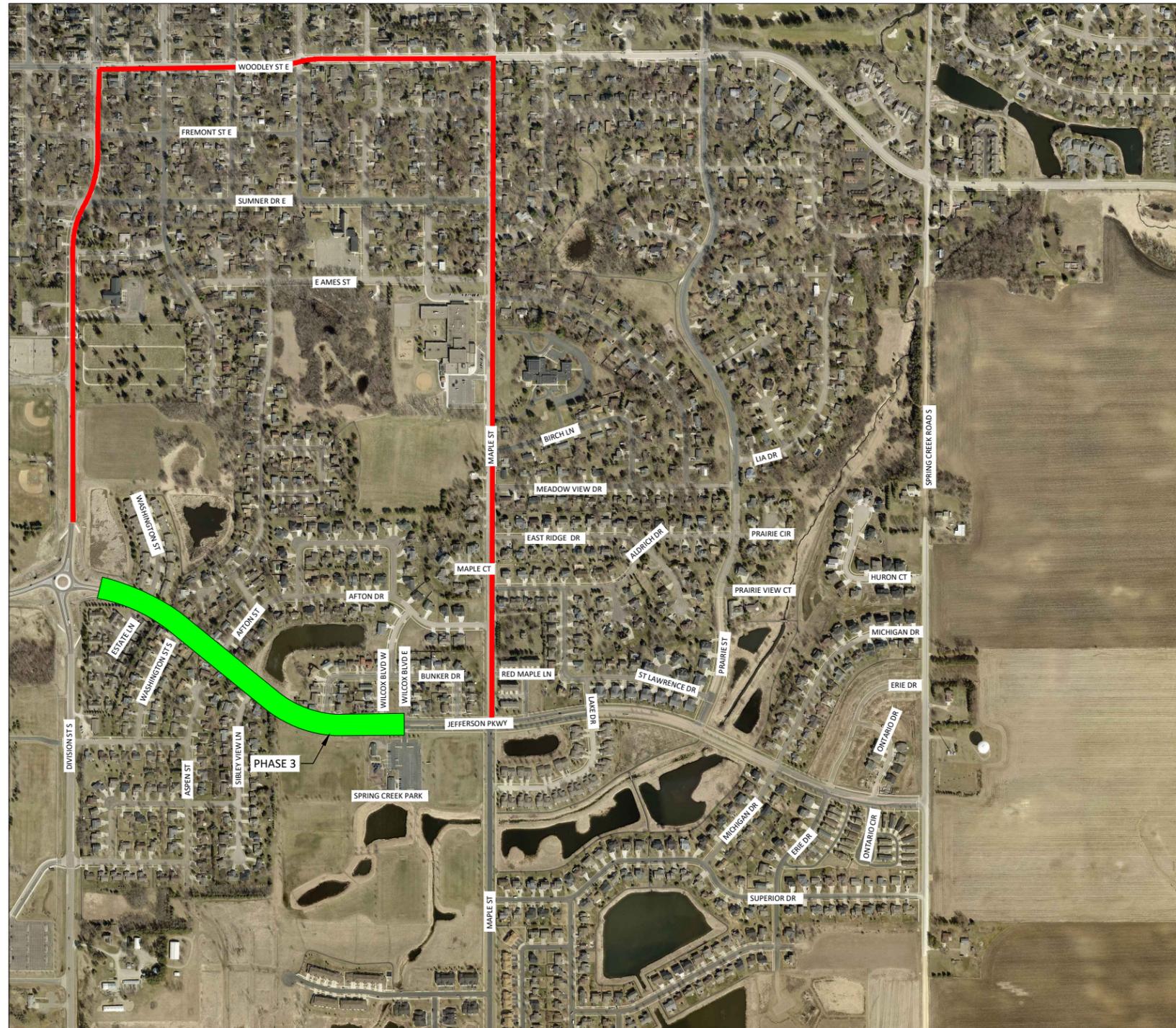
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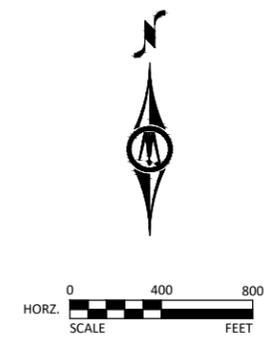
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 2026 JEFFERSON PKWY M&O AND MTST IMPROVEMENTS
 DETOUR PLAN
 PHASE 2

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LEGEND	
	PHASE 3
	TRAFFIC DETOUR ROUTE



TRAFFIC CONTROL NOTES
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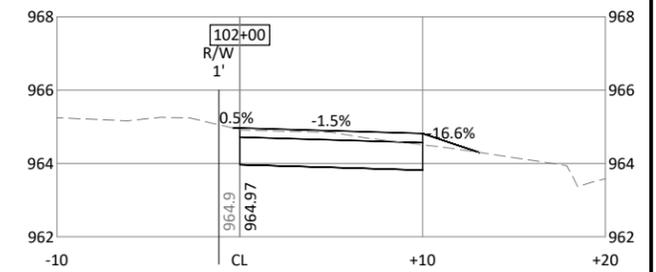
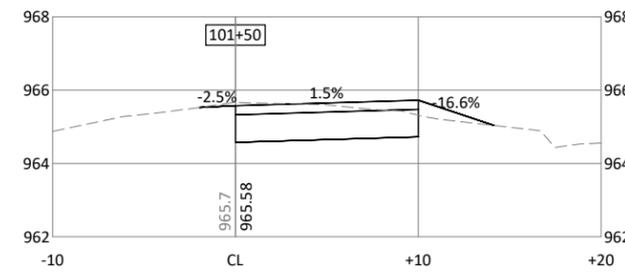
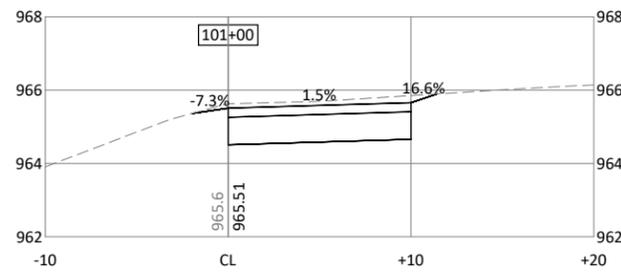
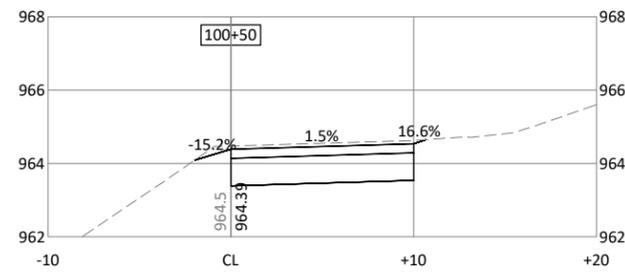
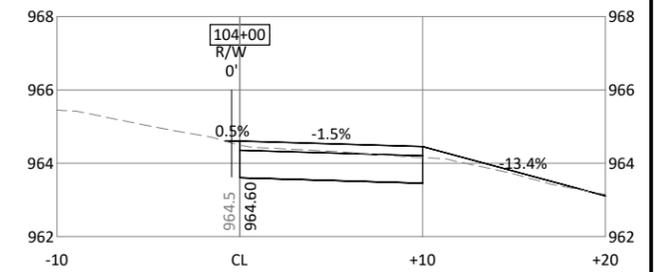
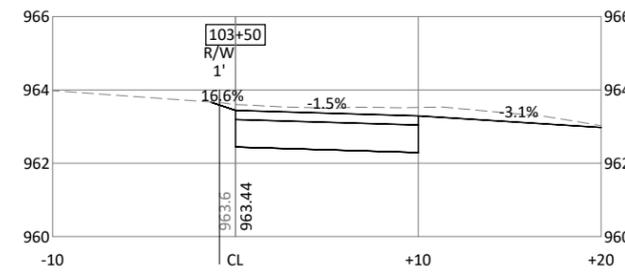
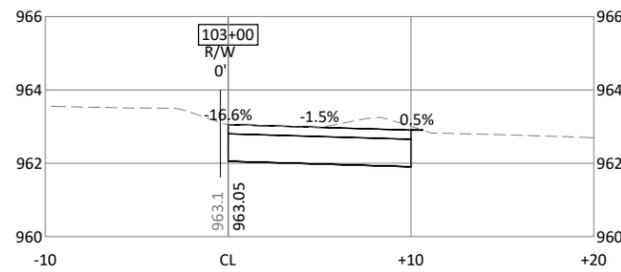
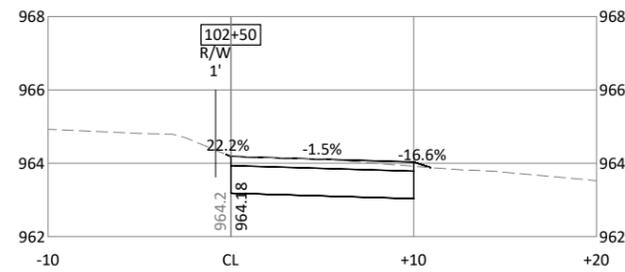
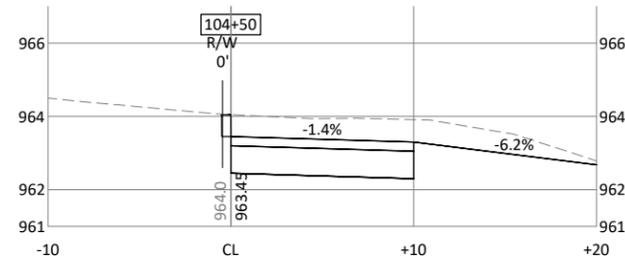


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 DETOUR PLAN
 PHASE 3

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DAVID E BENNETT, P.E.
 LIC. NO. 45867 DATE XX/XX/XXXX



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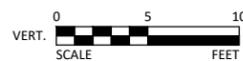
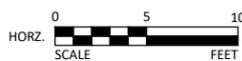
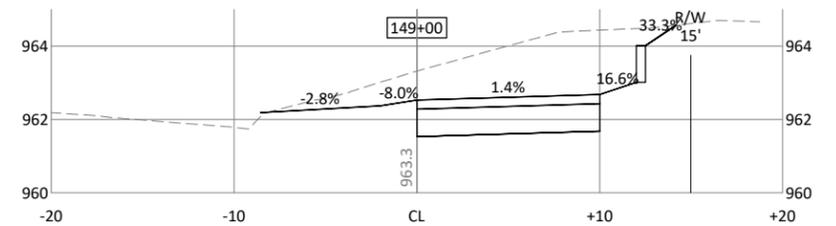
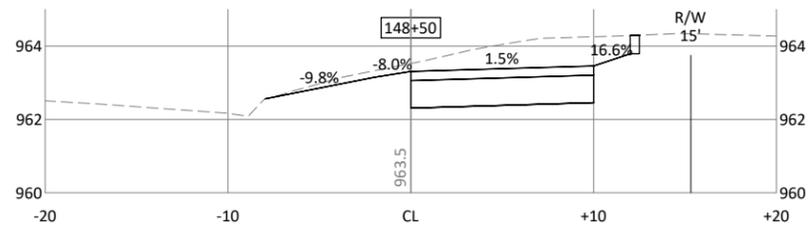
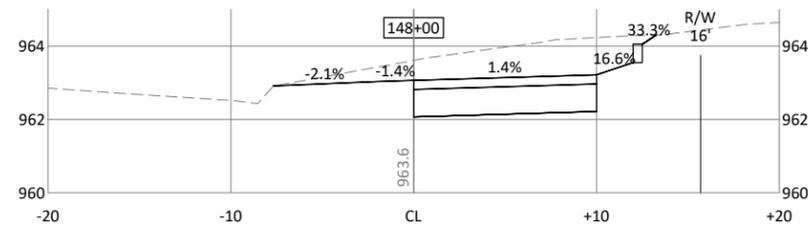
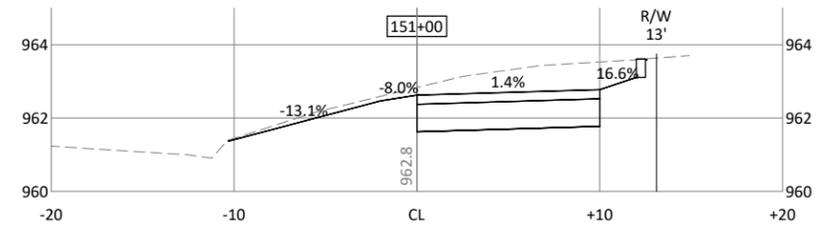
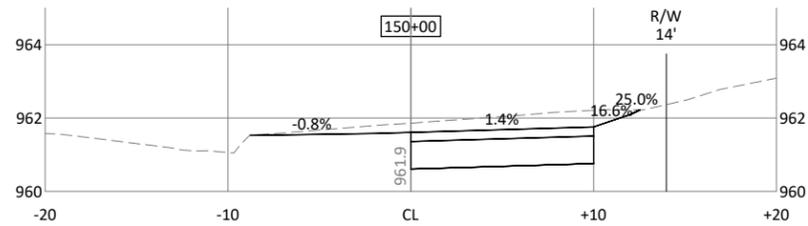
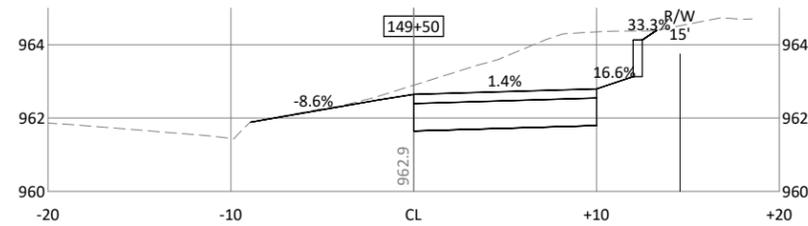
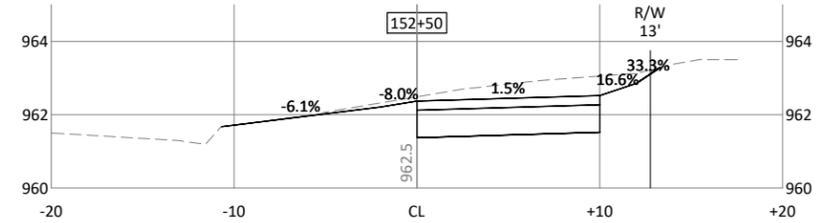
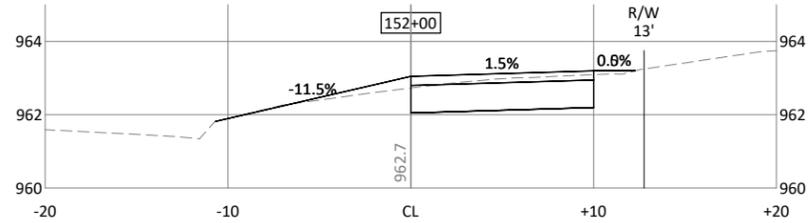
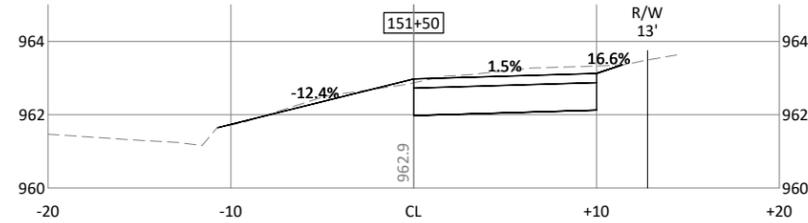
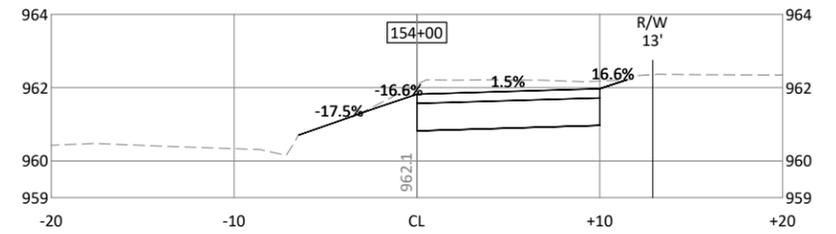
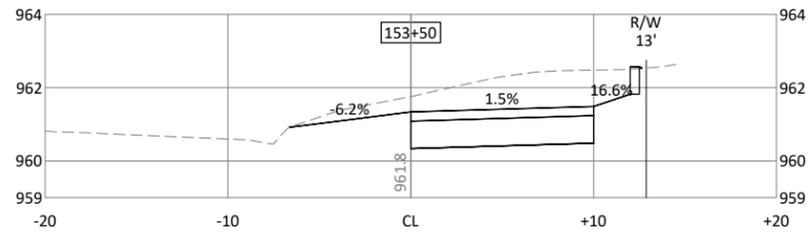
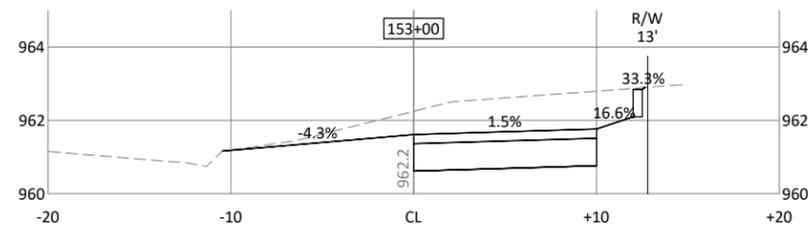


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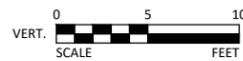
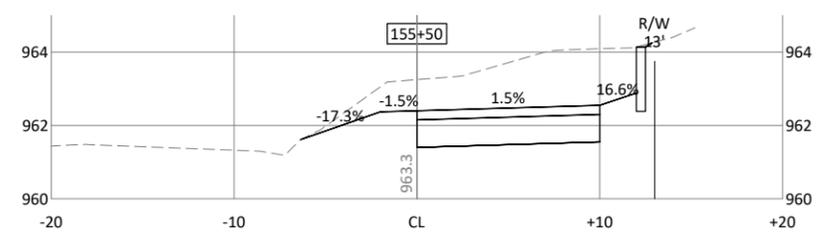
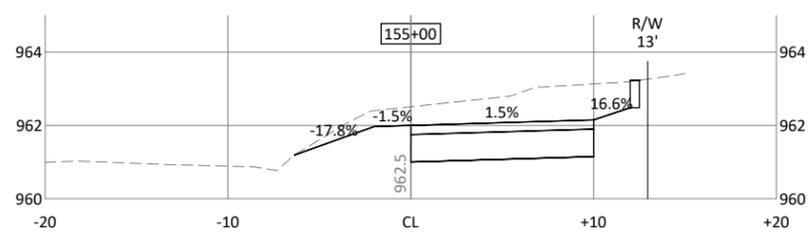
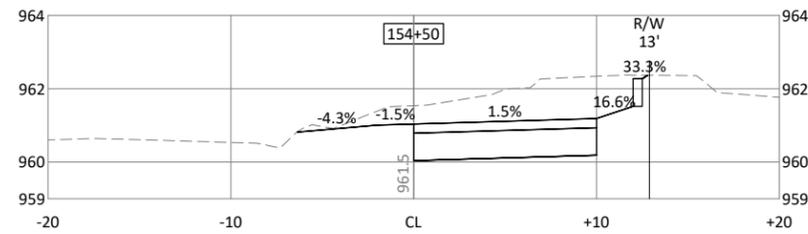
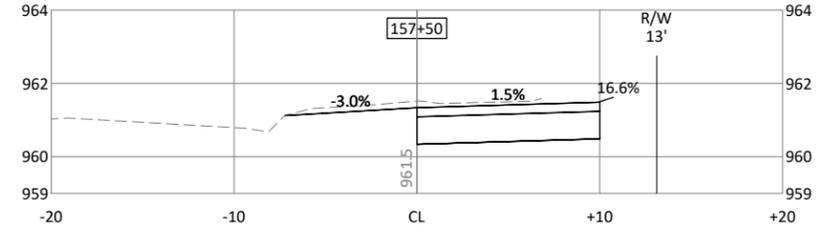
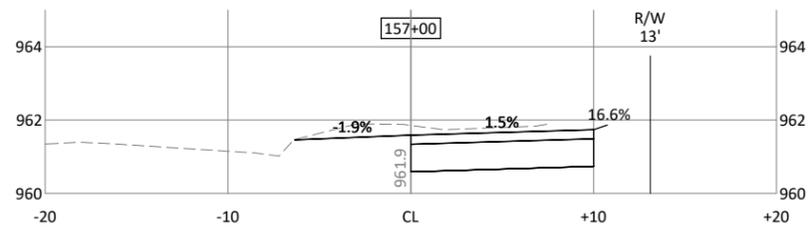
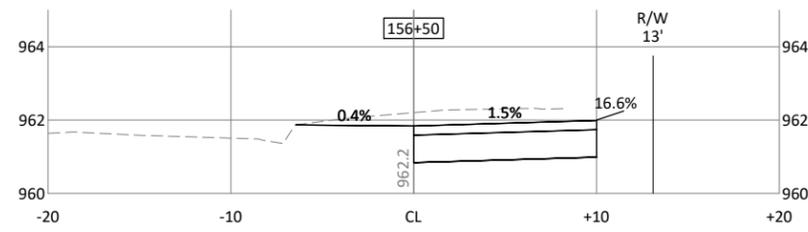
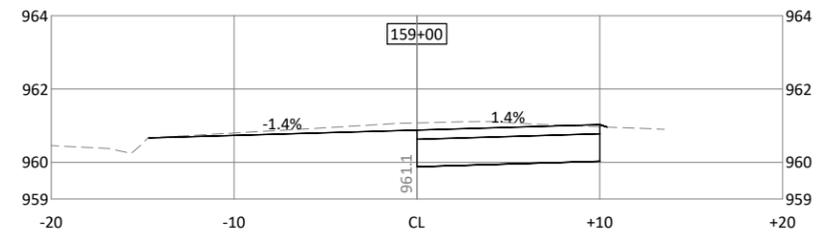
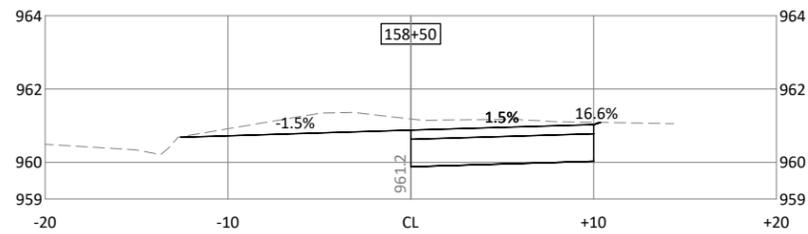
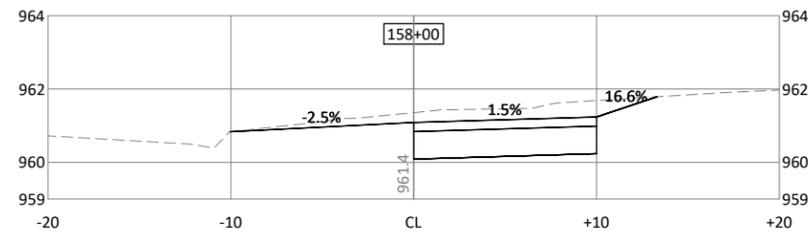
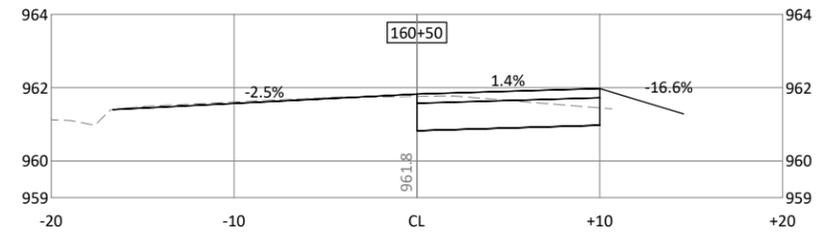
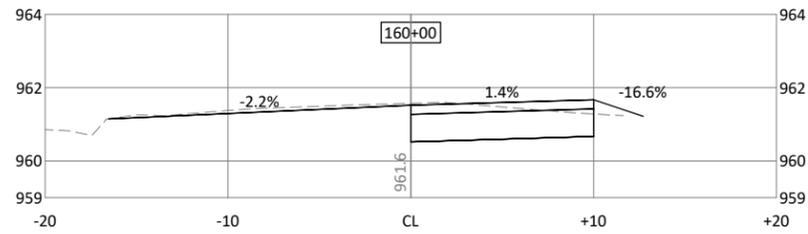
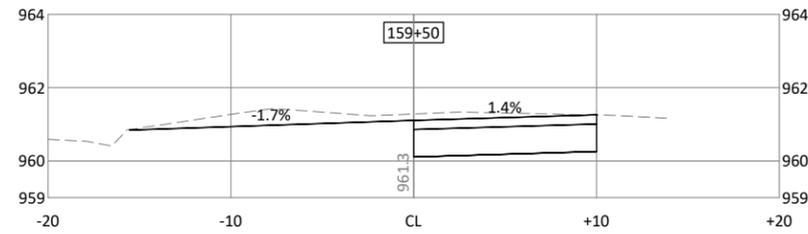


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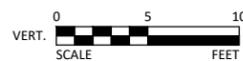
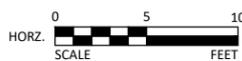
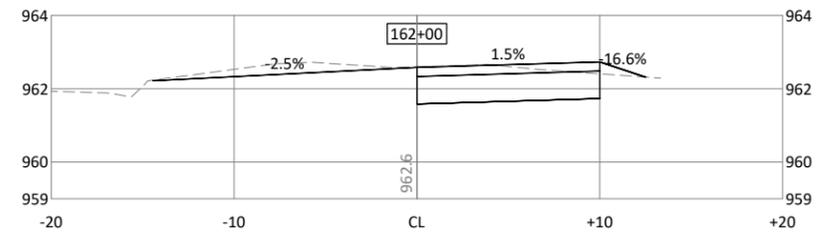
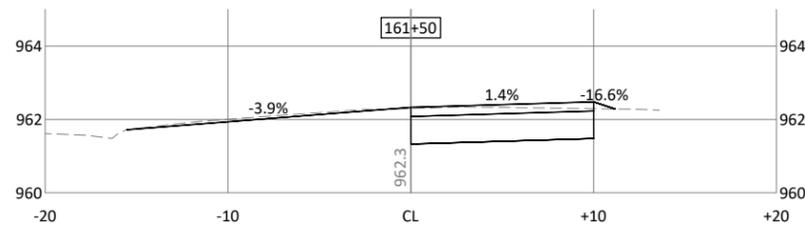
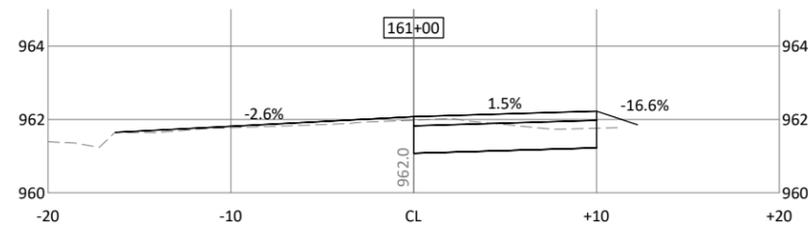
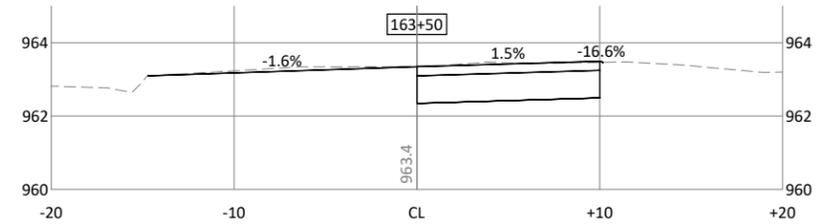
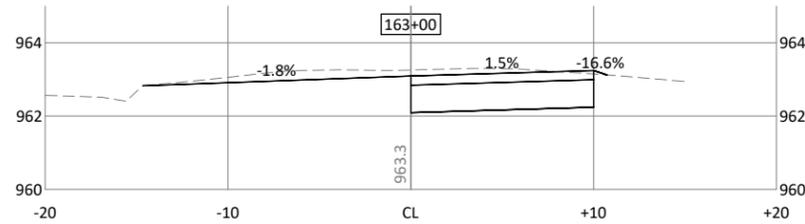
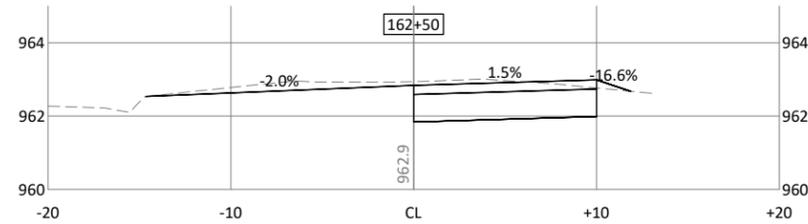
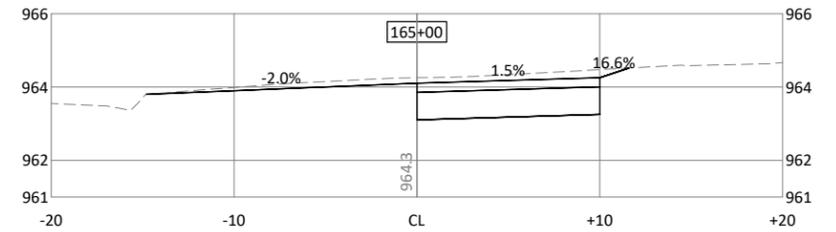
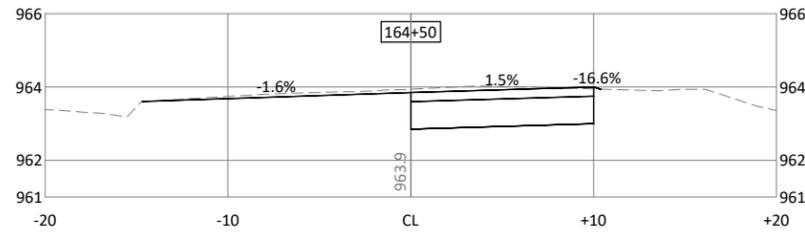
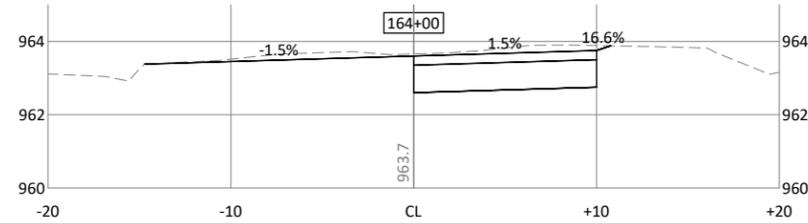
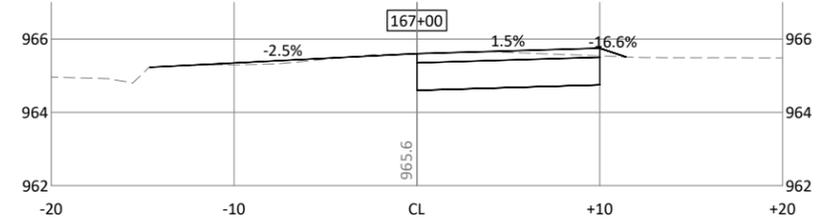
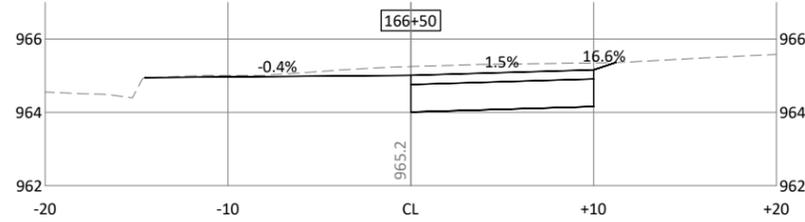
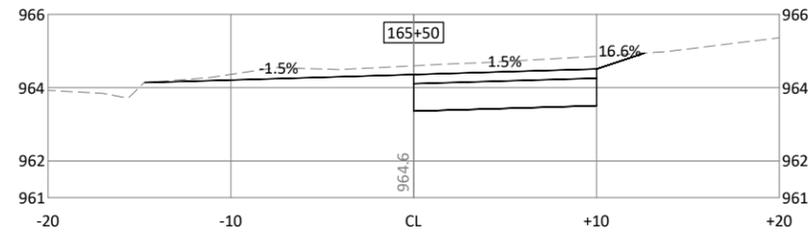


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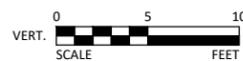
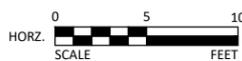
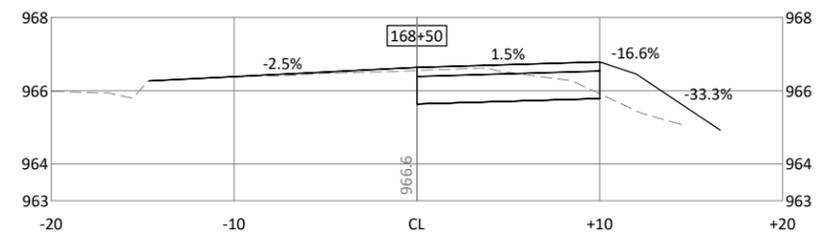
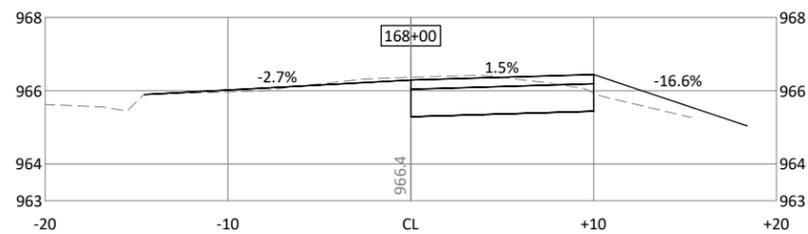
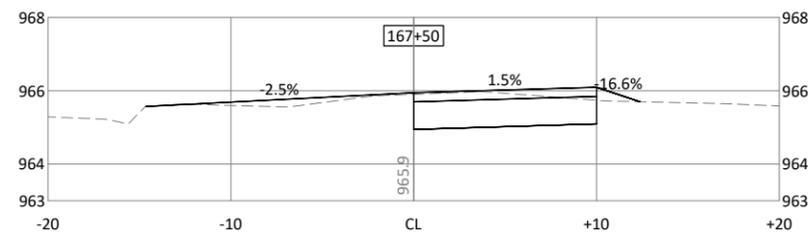
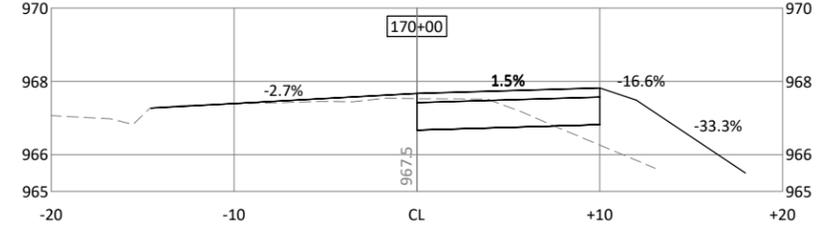
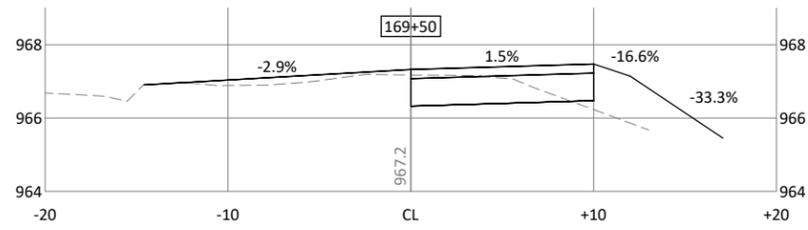
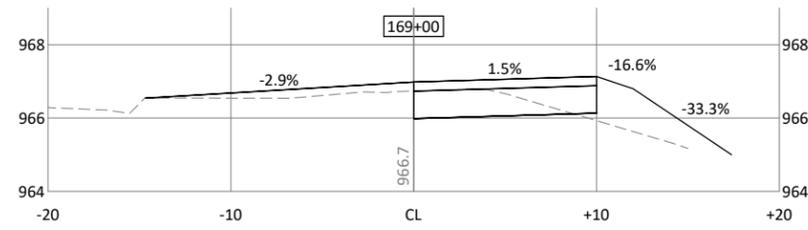
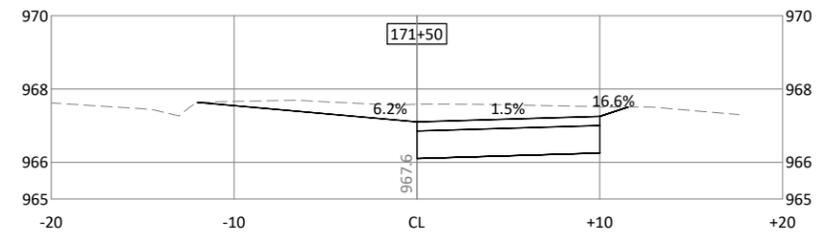
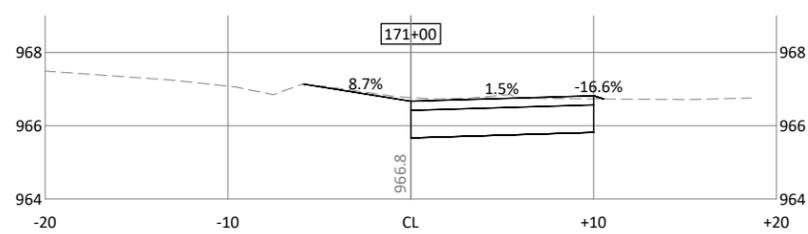
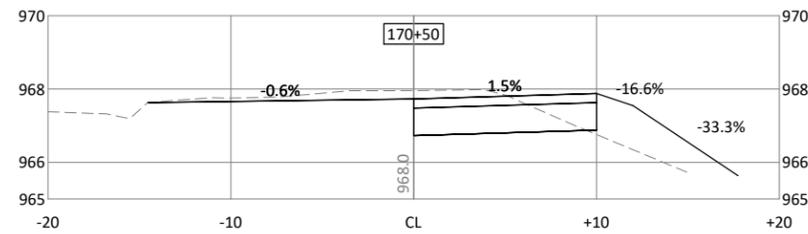
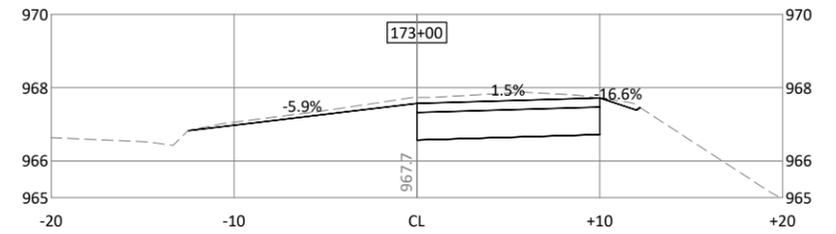
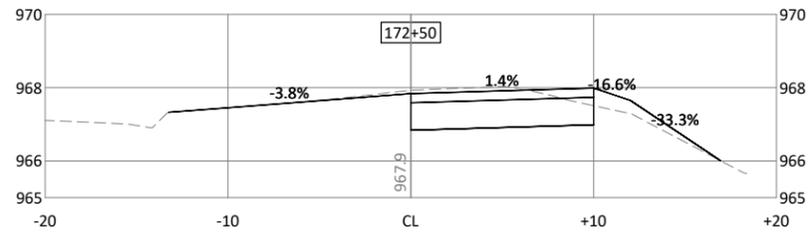
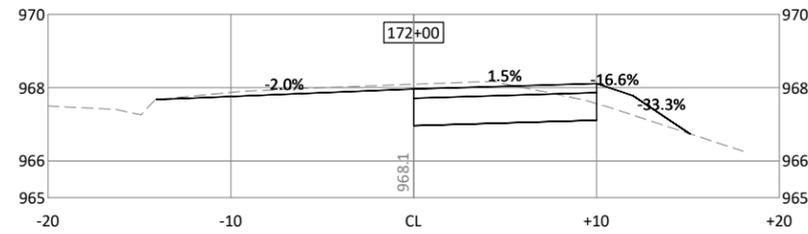


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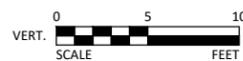
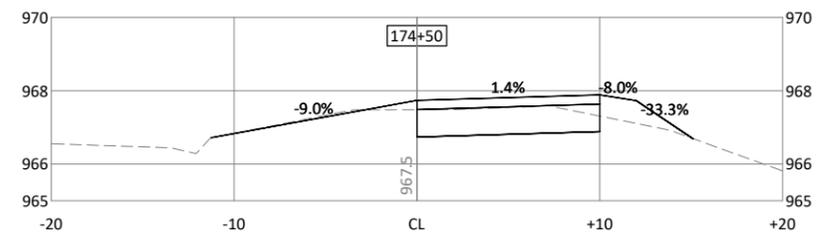
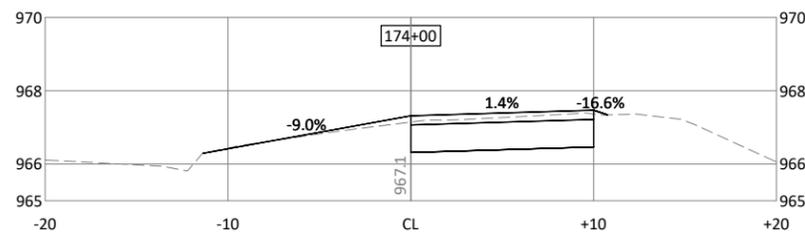
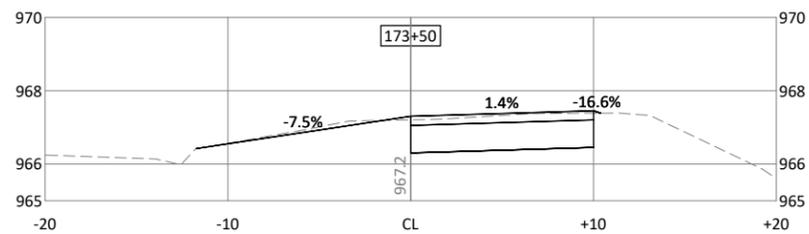
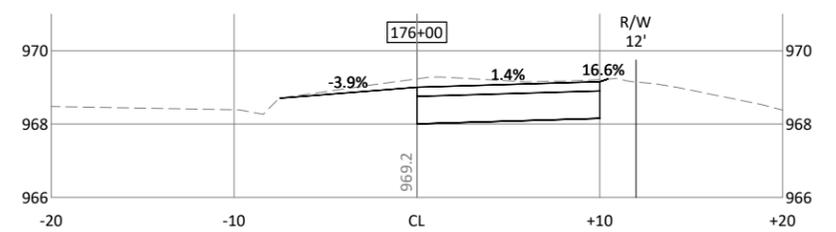
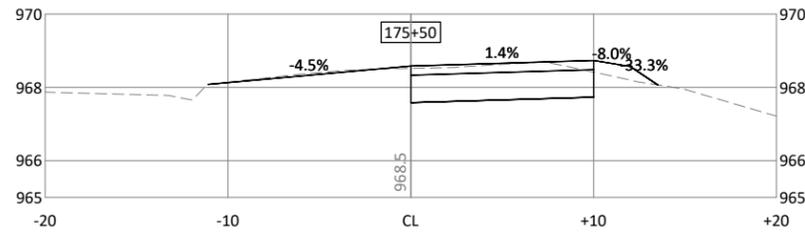
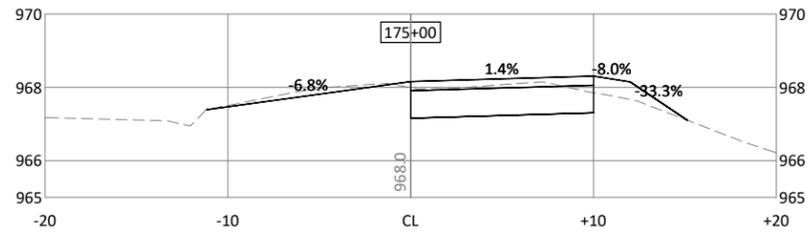
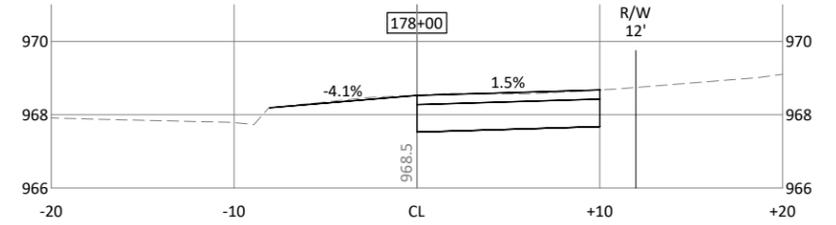
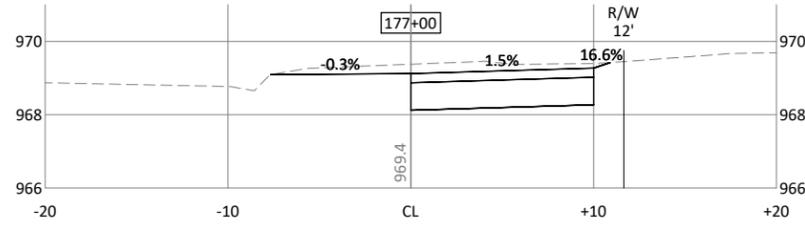
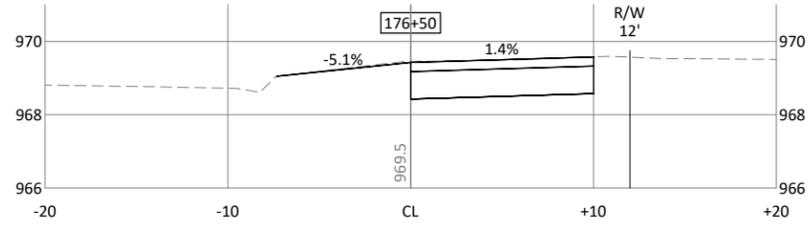
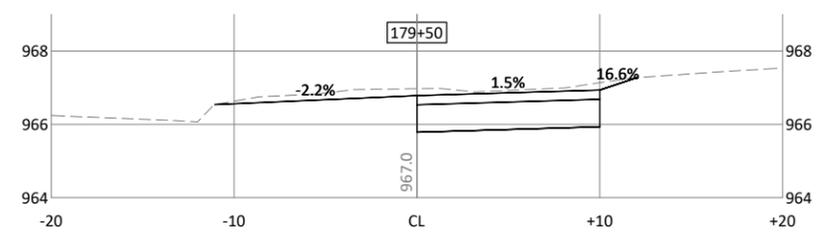
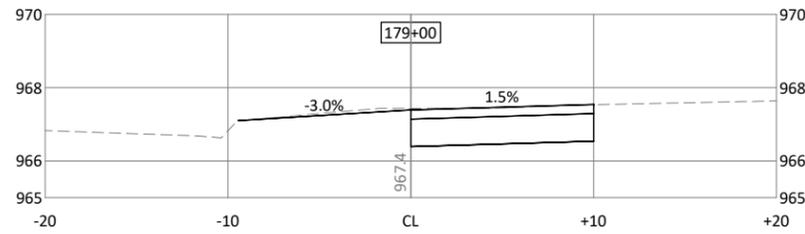
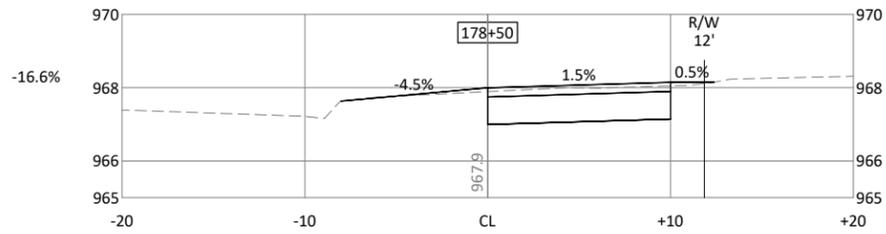


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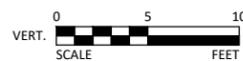
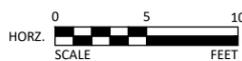
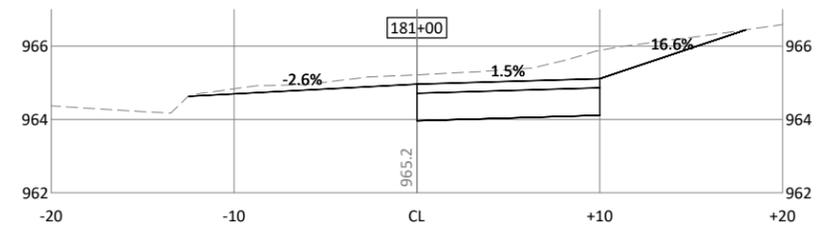
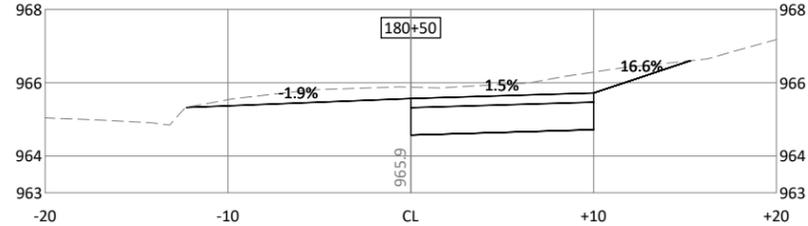
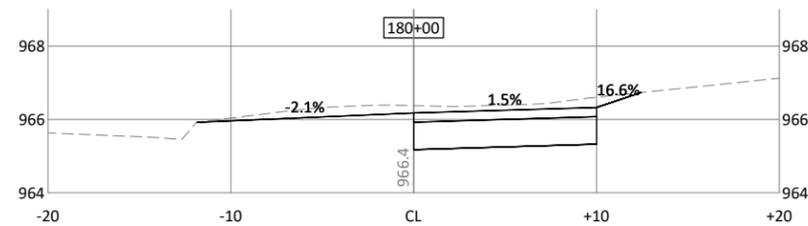
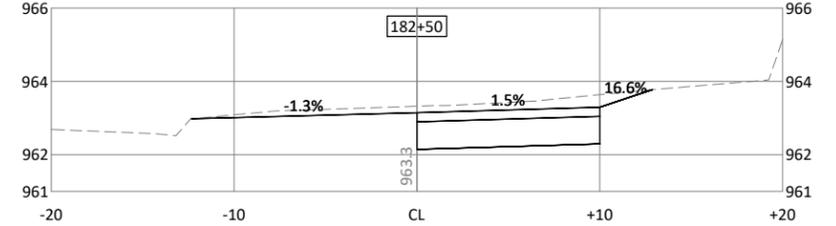
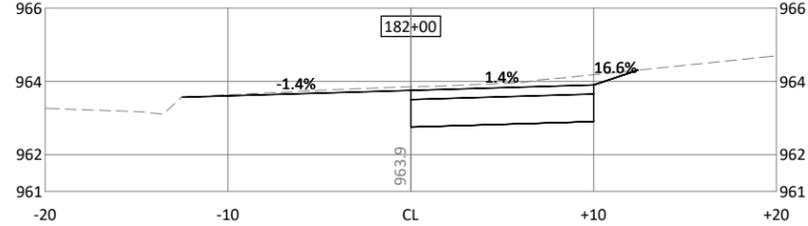
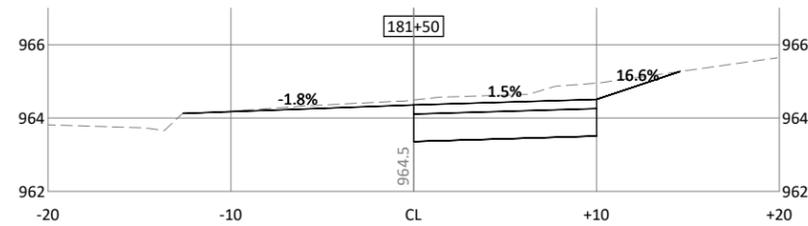
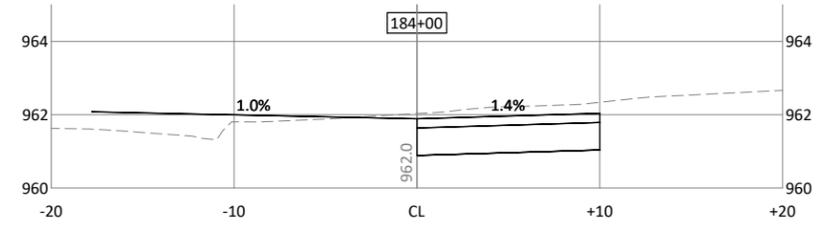
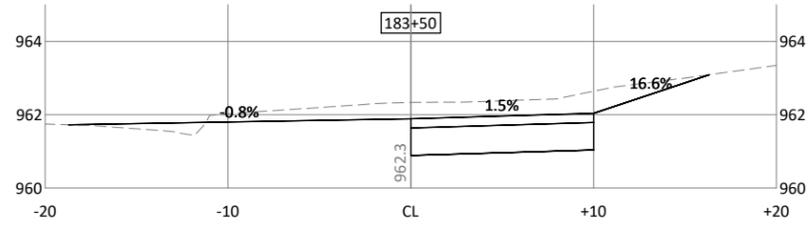
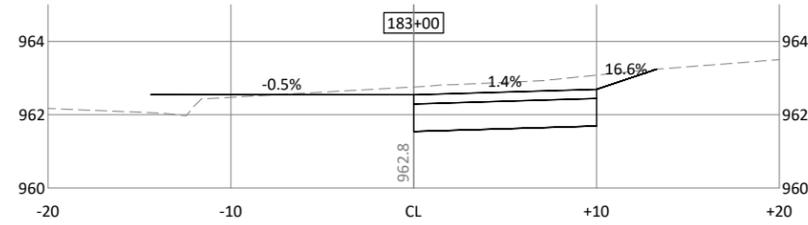
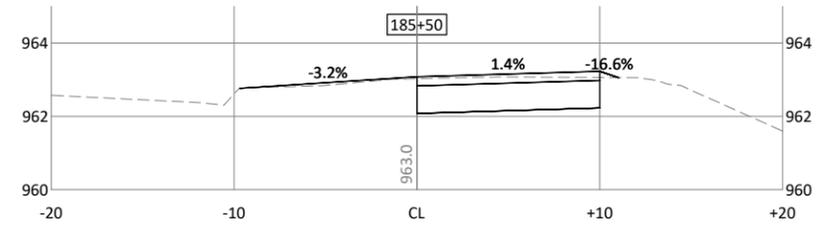
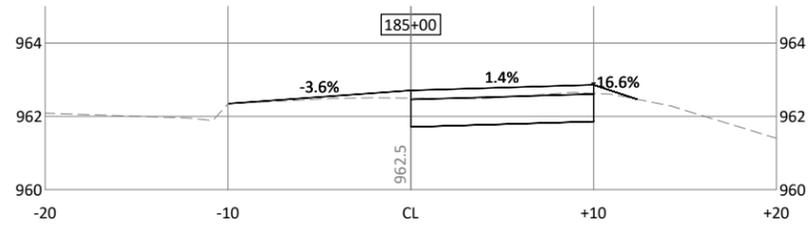
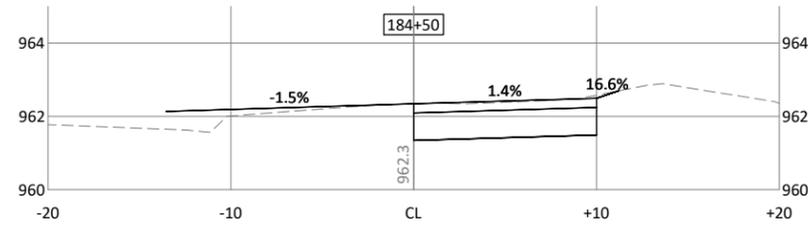


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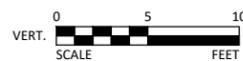
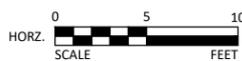
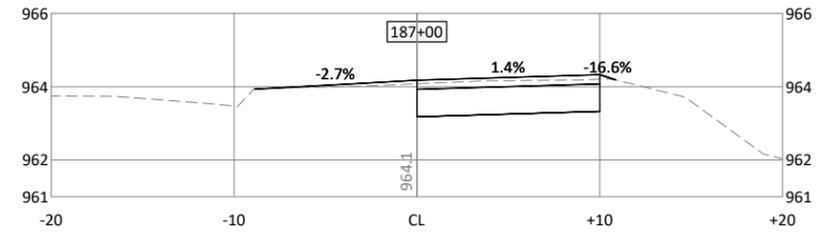
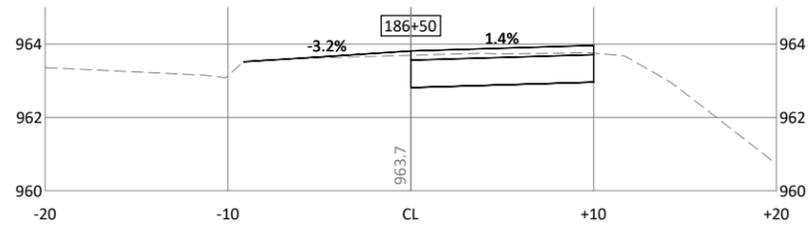
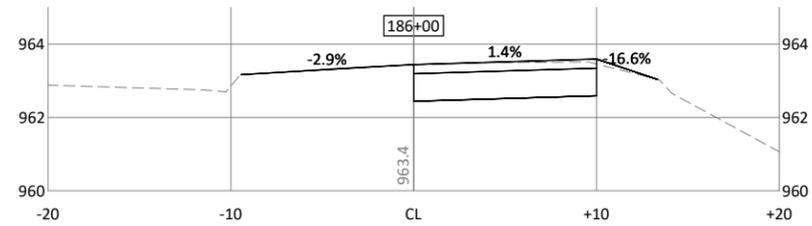
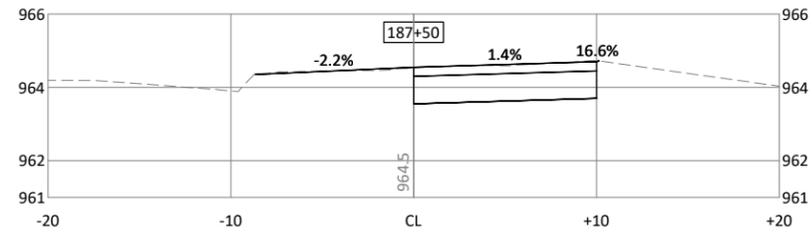


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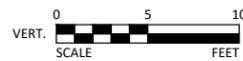
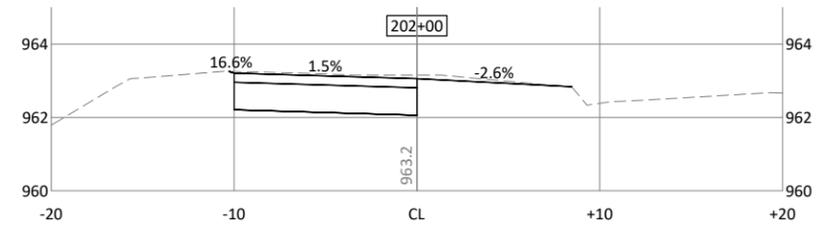
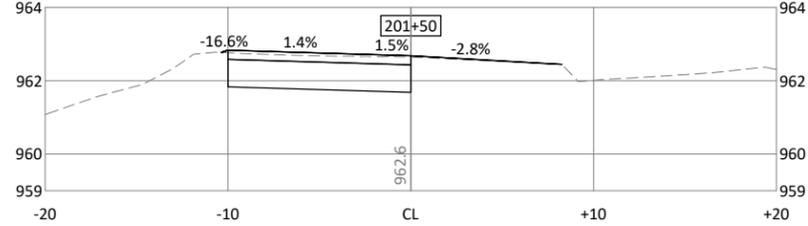
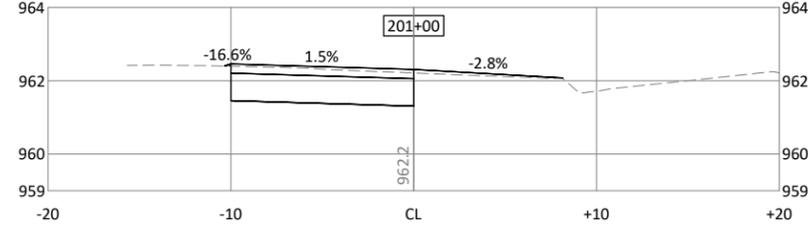
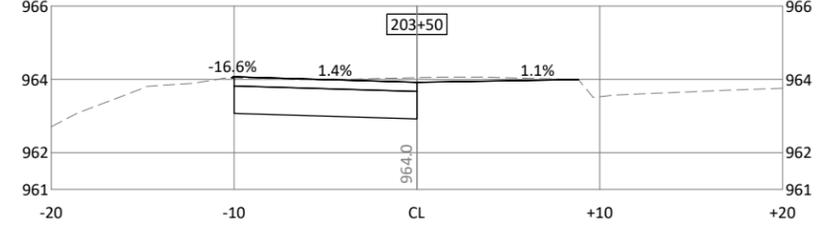
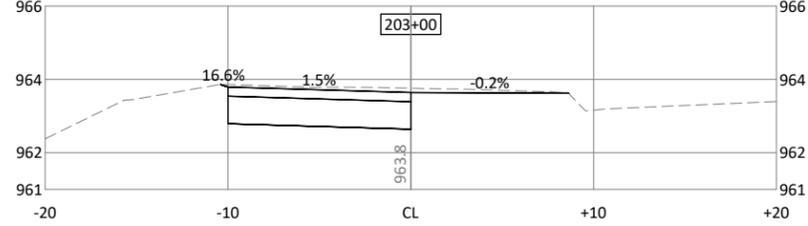
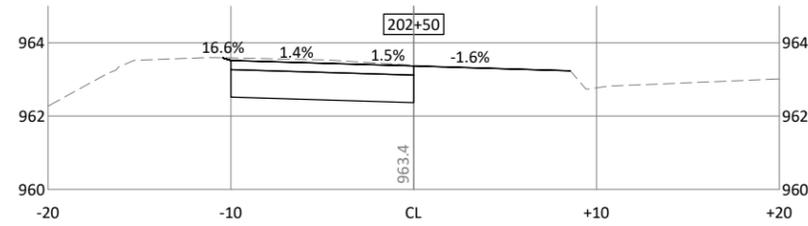
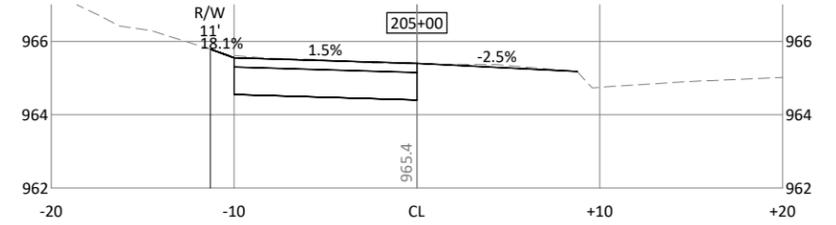
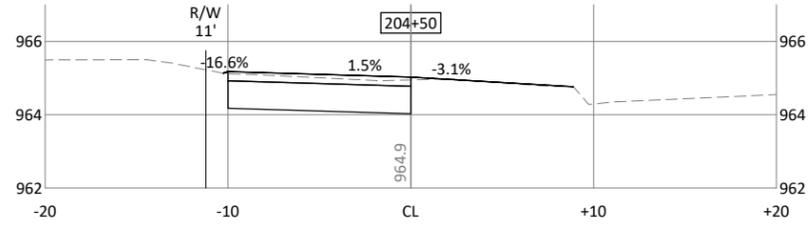
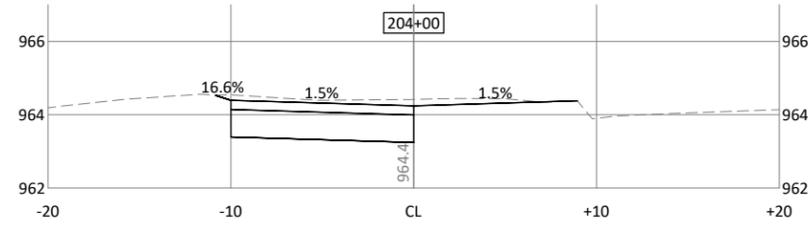
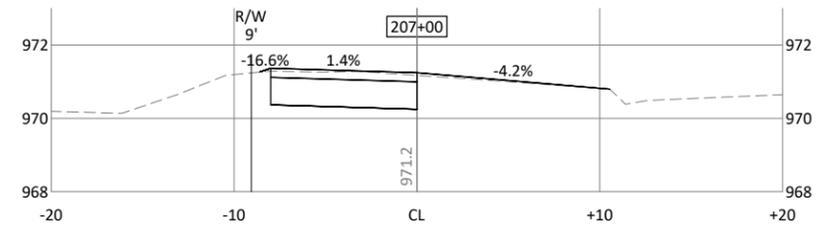
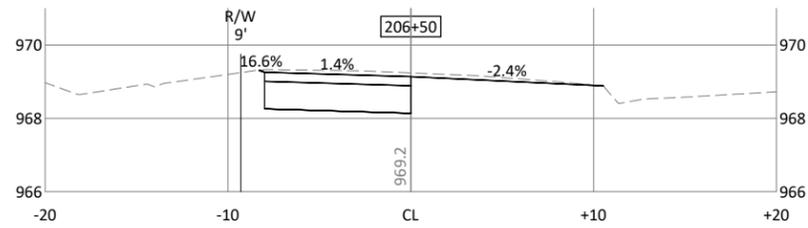
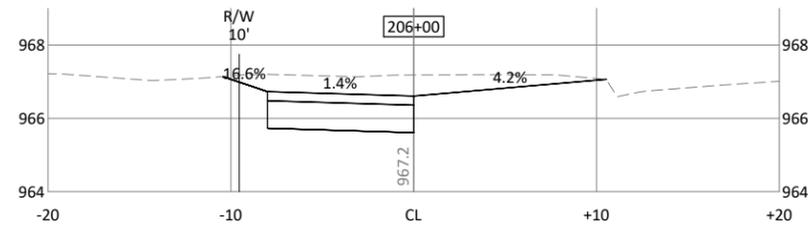


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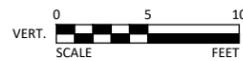
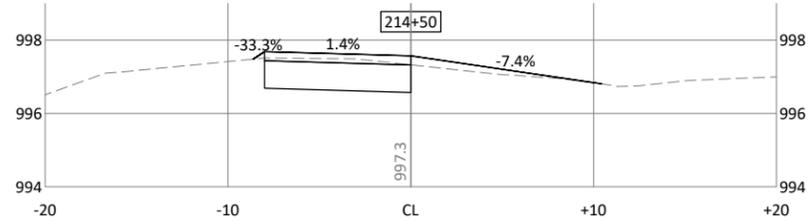
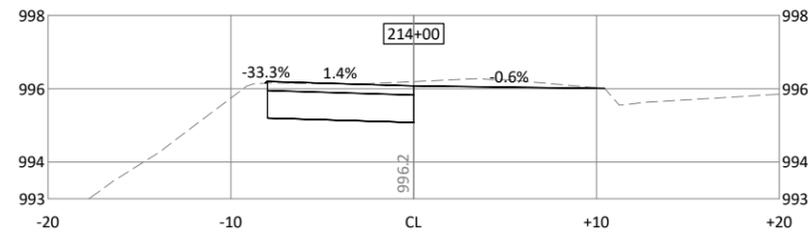


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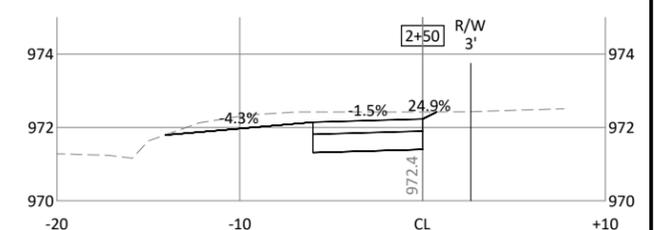
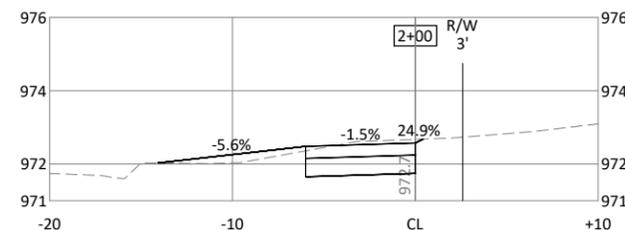
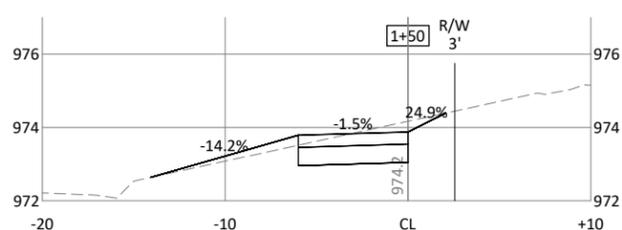
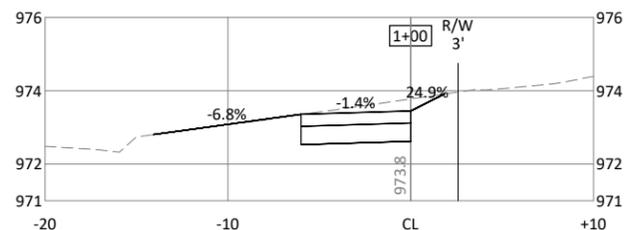
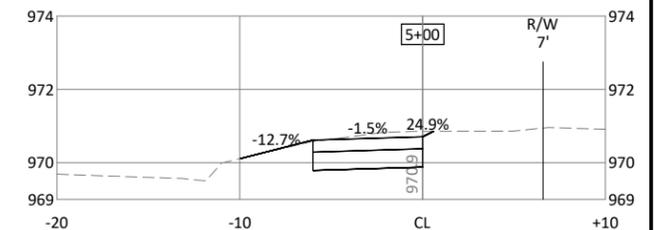
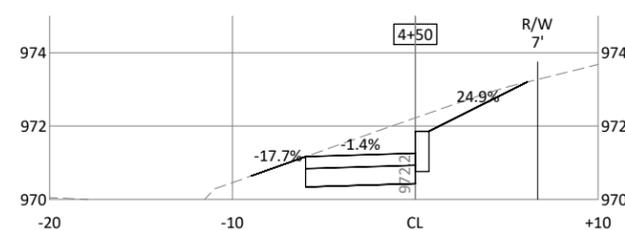
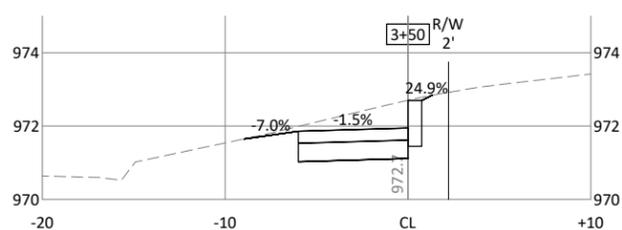
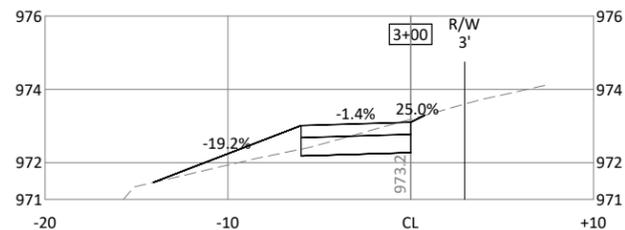
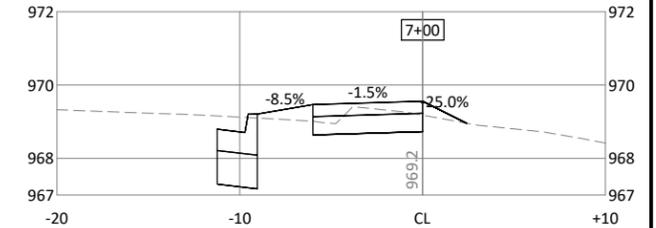
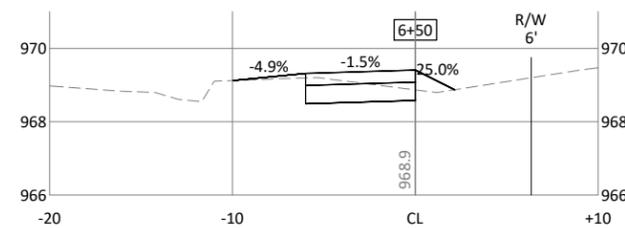
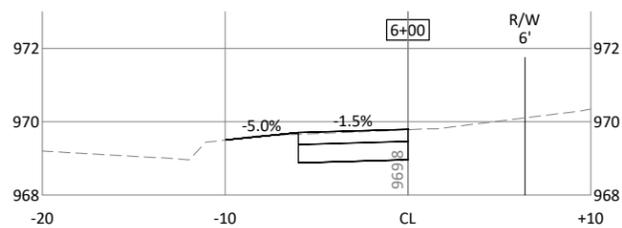
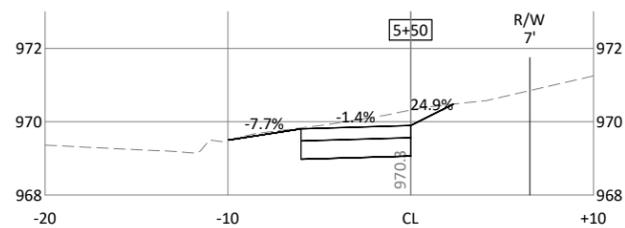
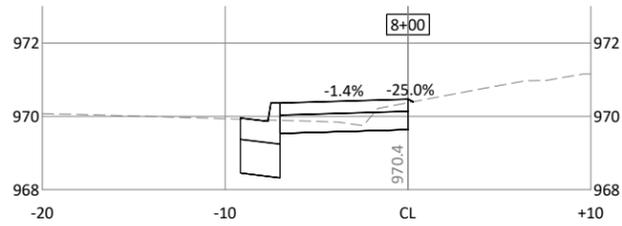
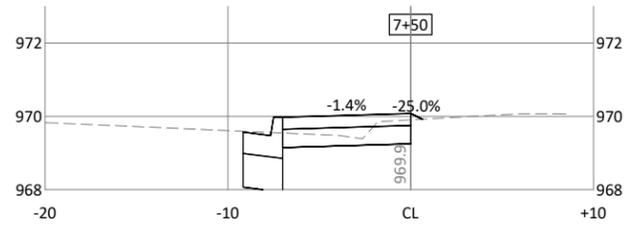


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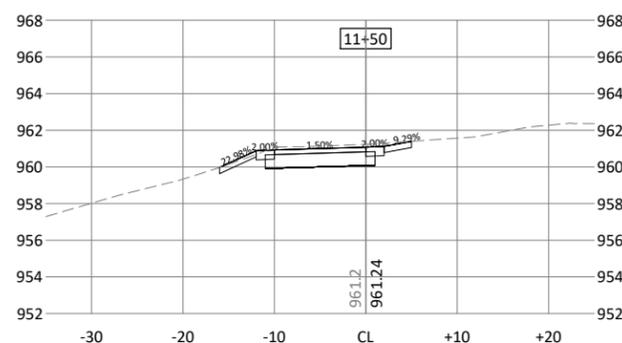
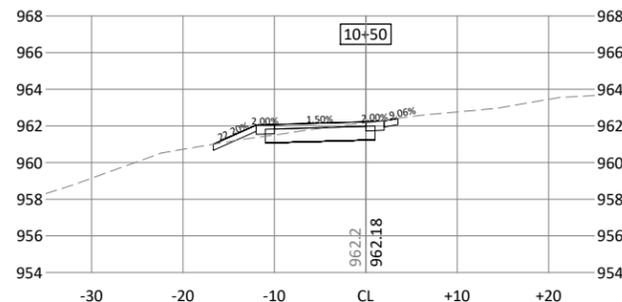
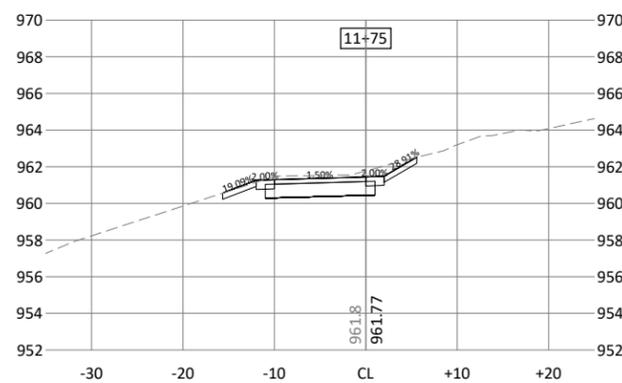
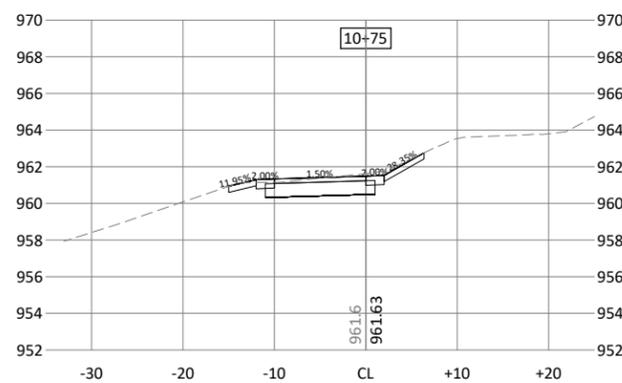
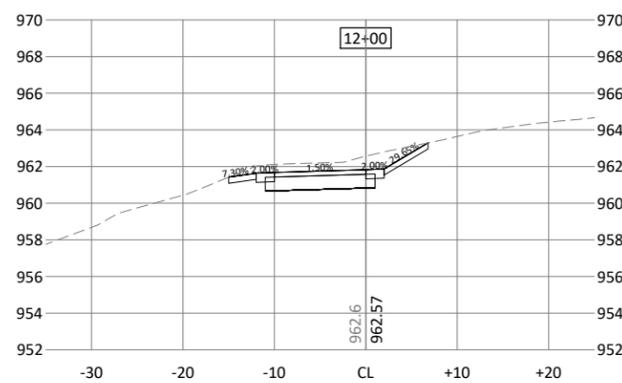
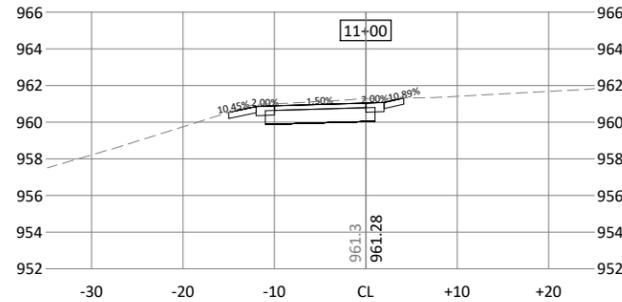
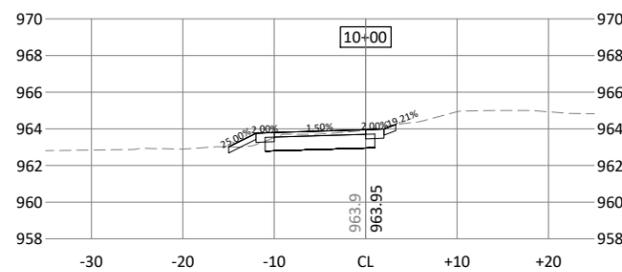
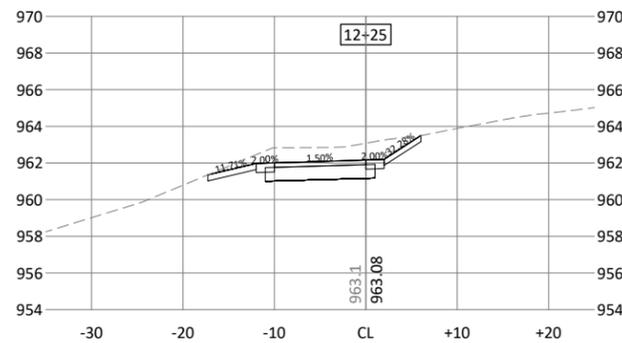
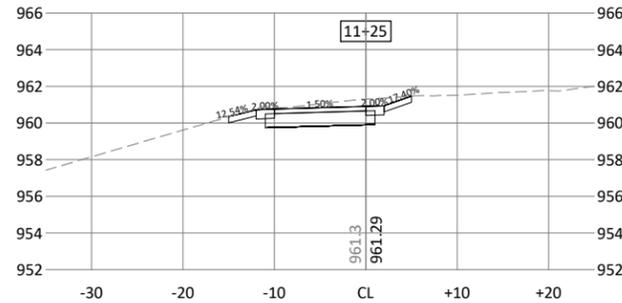
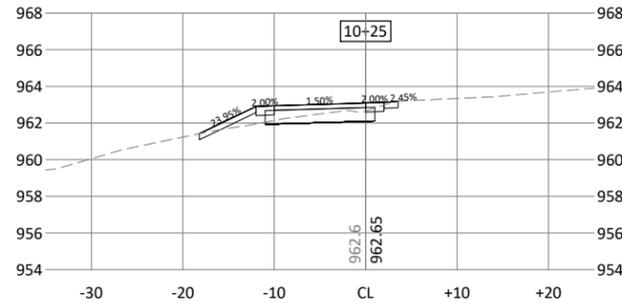
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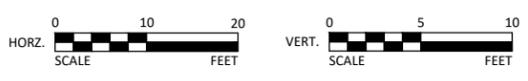
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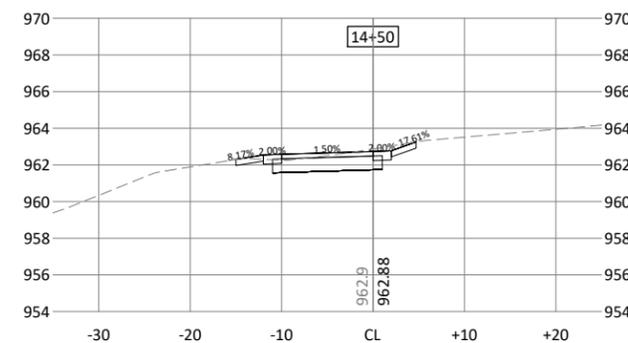
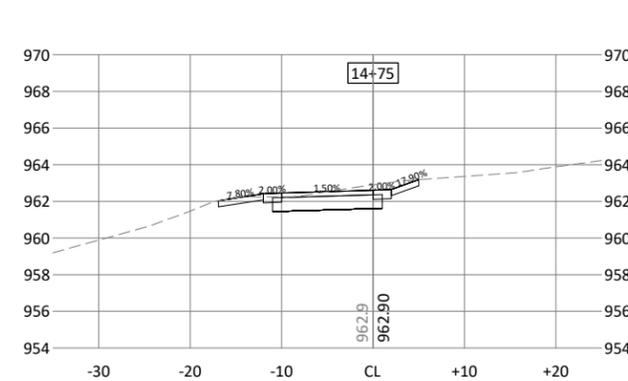
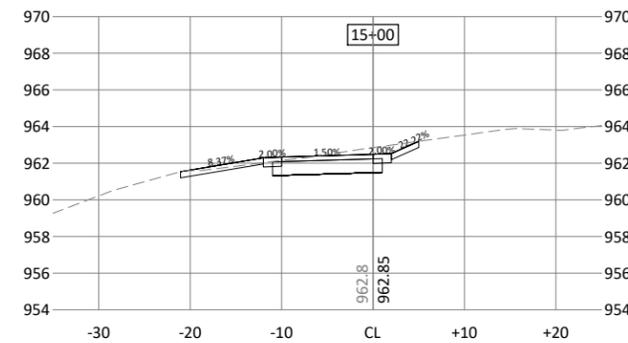
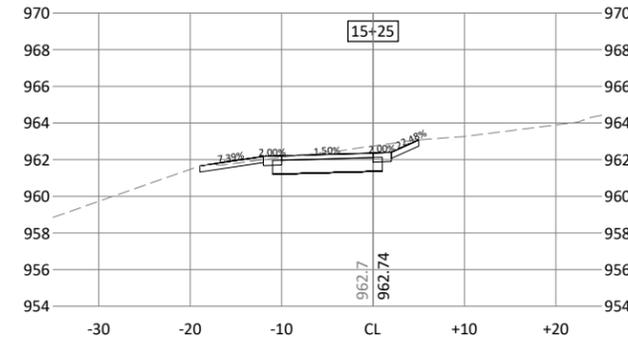
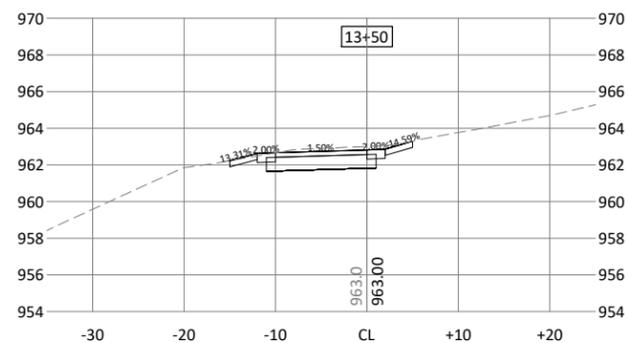
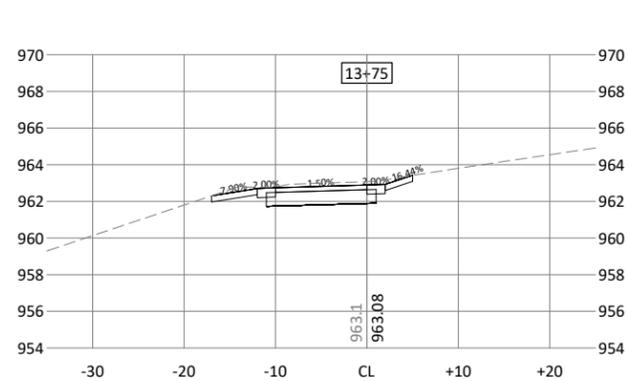
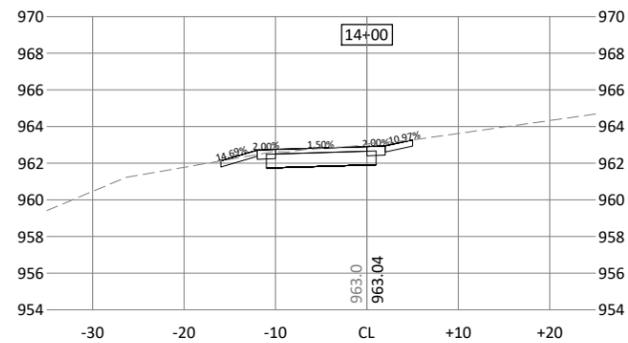
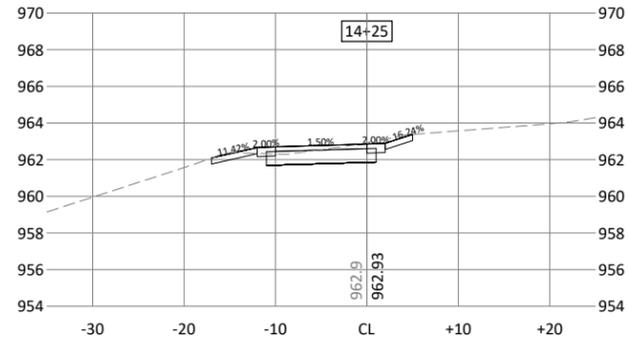
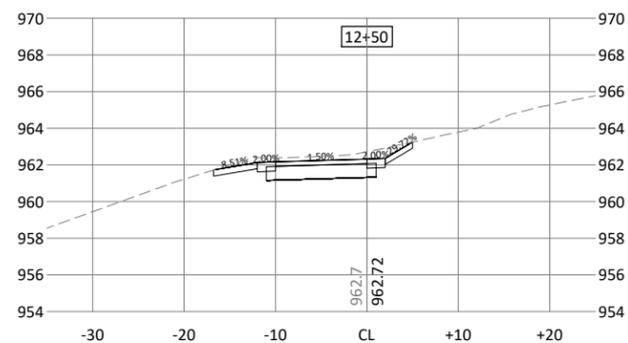
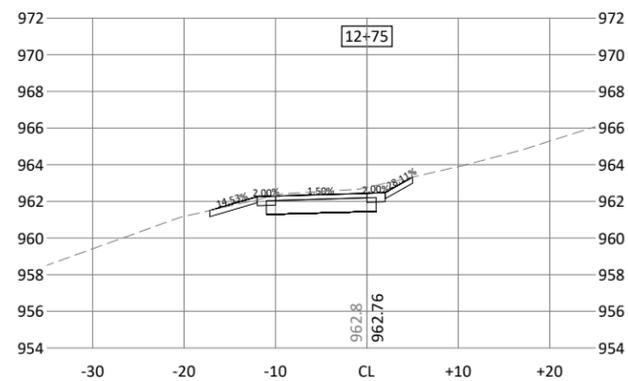
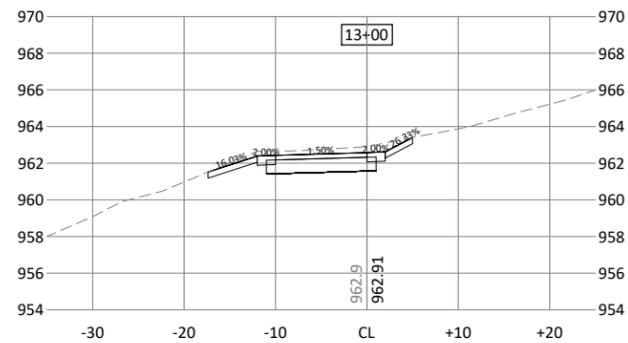
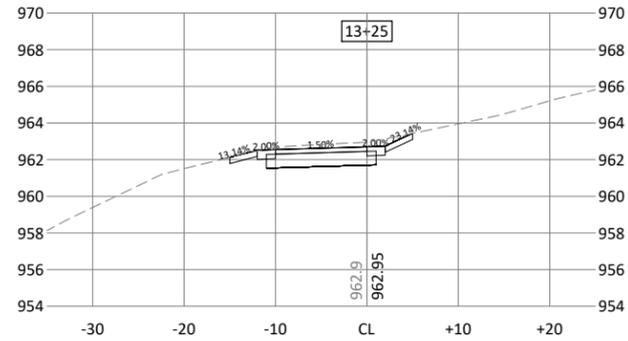


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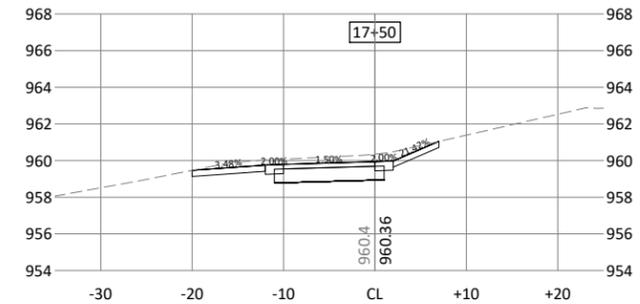
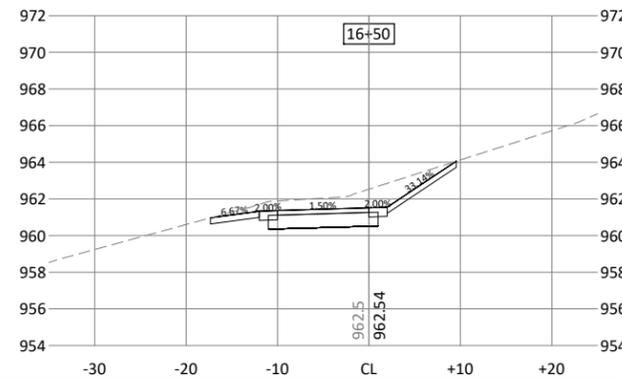
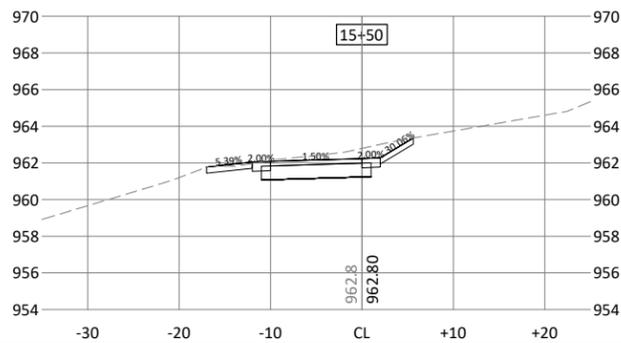
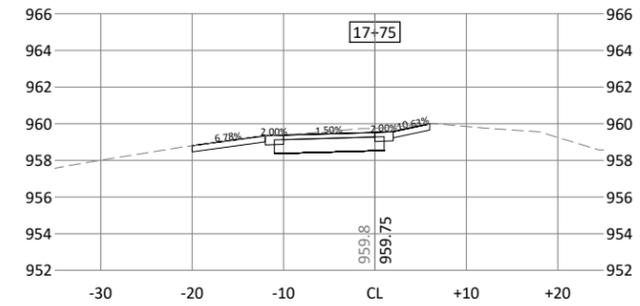
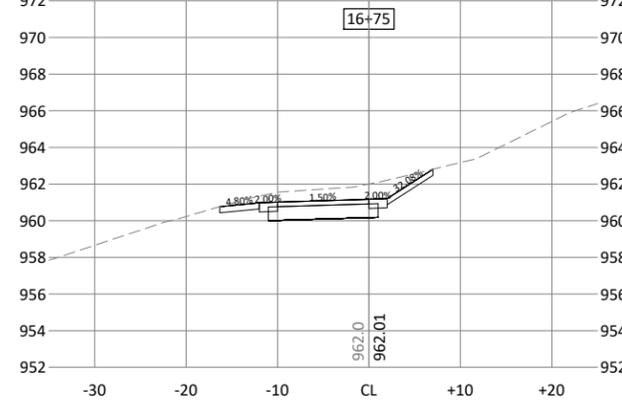
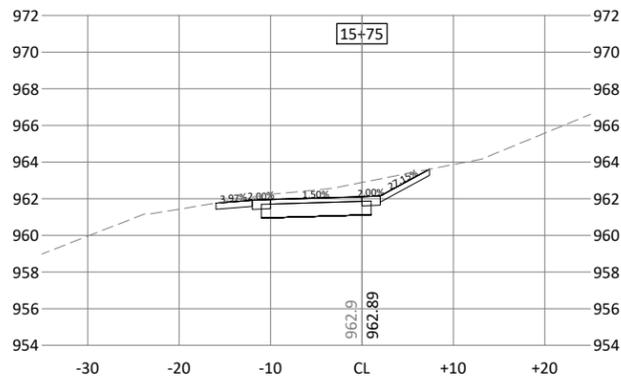
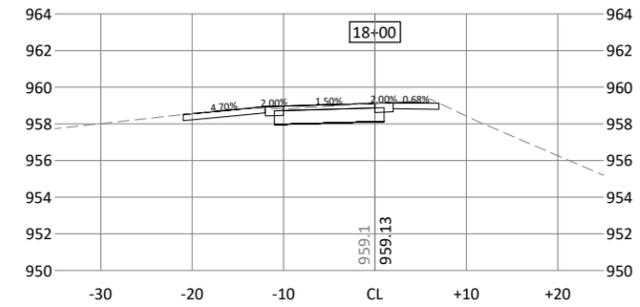
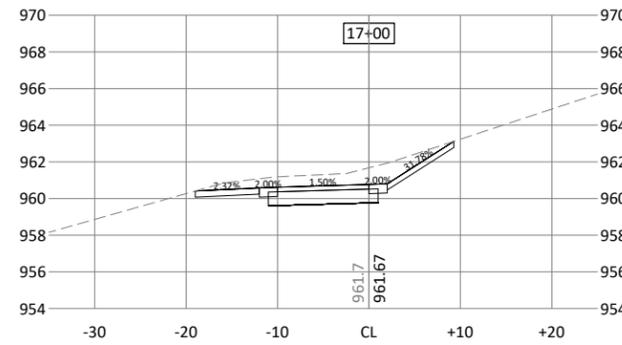
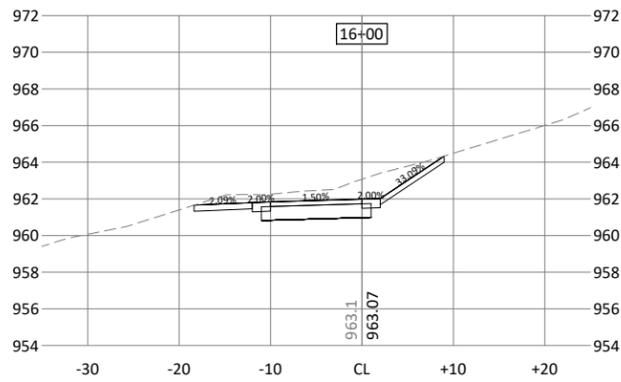
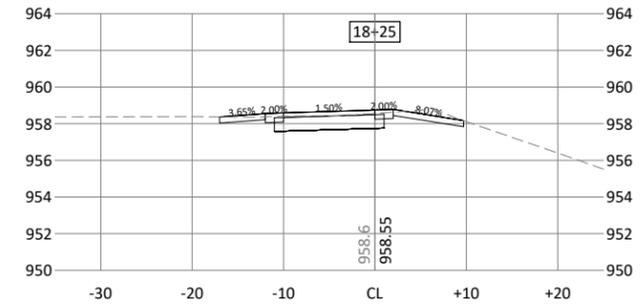
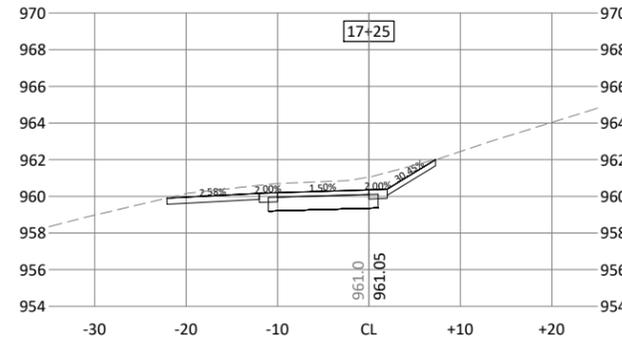
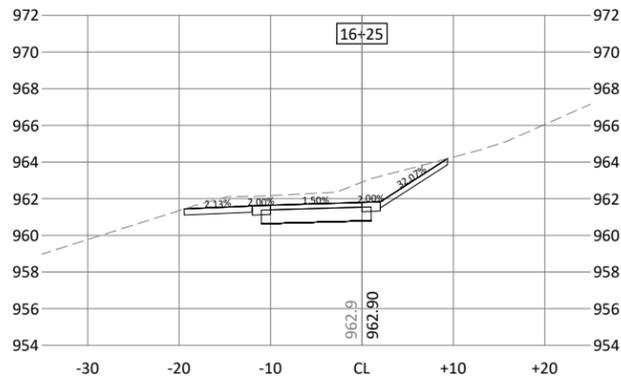
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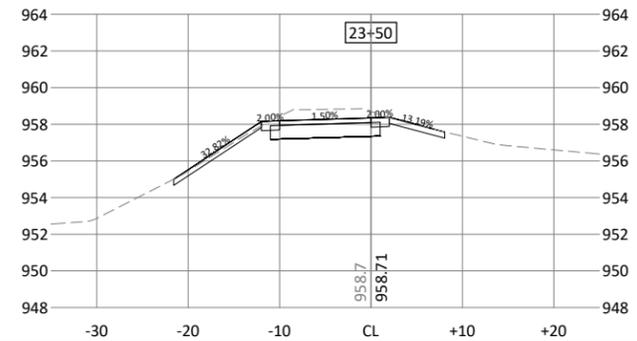
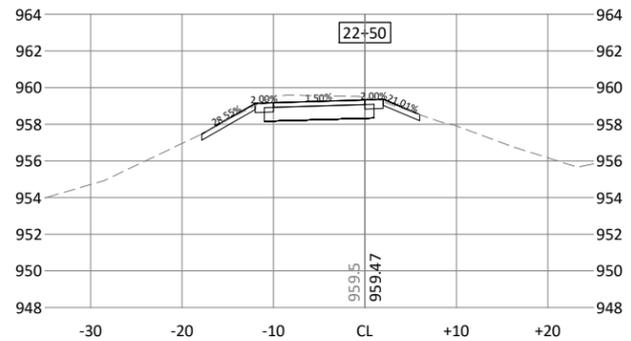
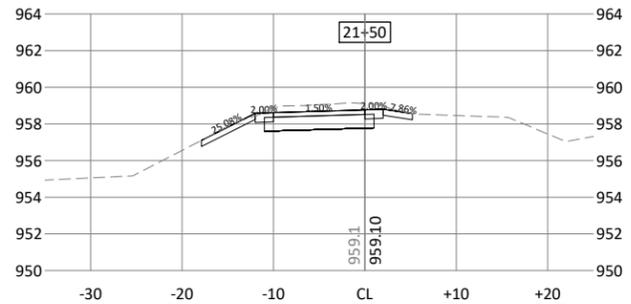
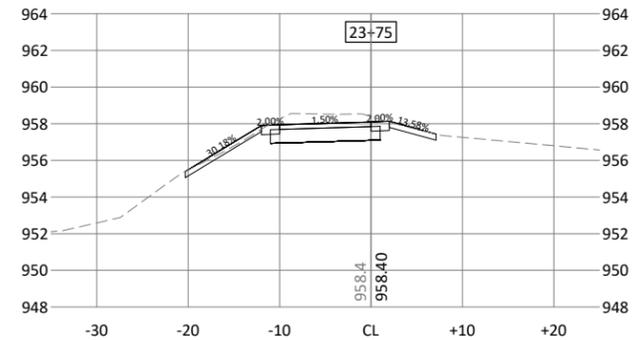
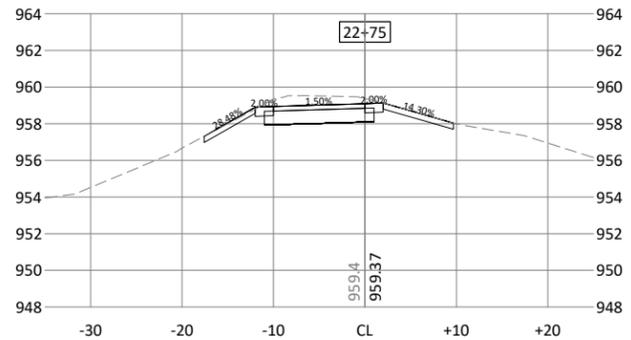
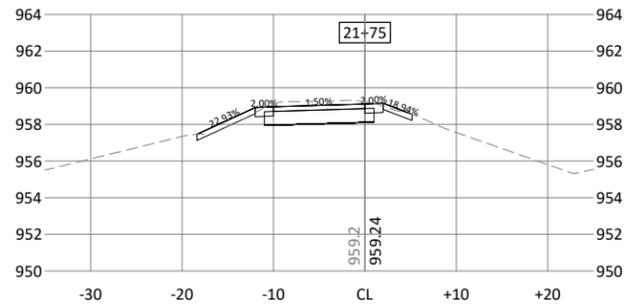
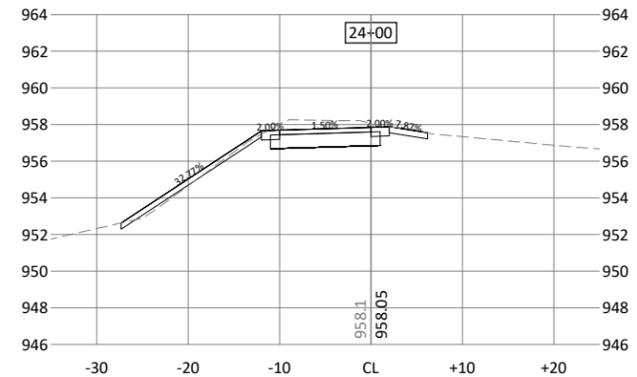
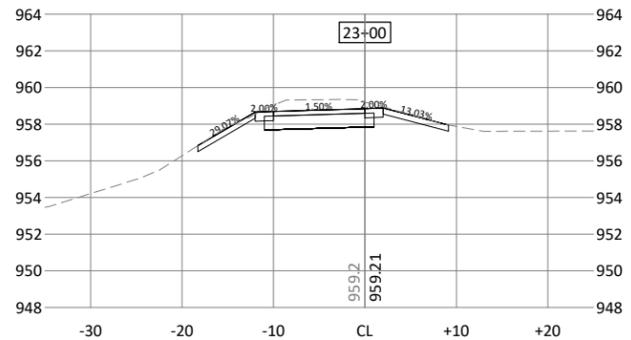
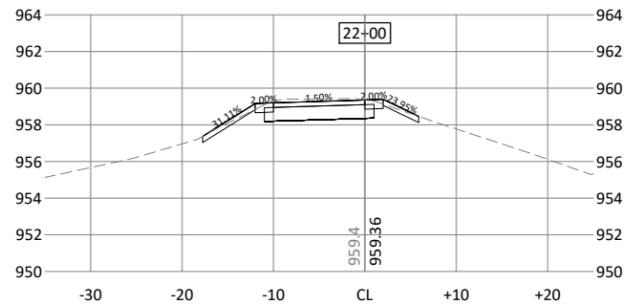
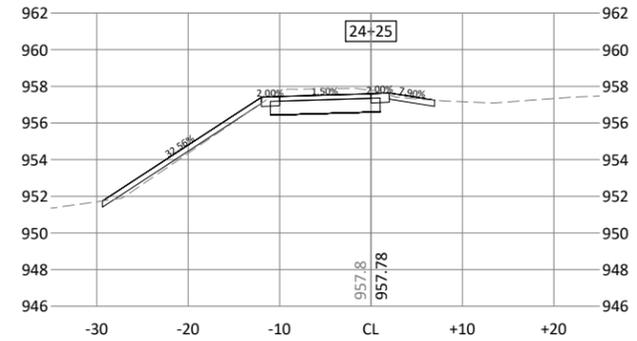
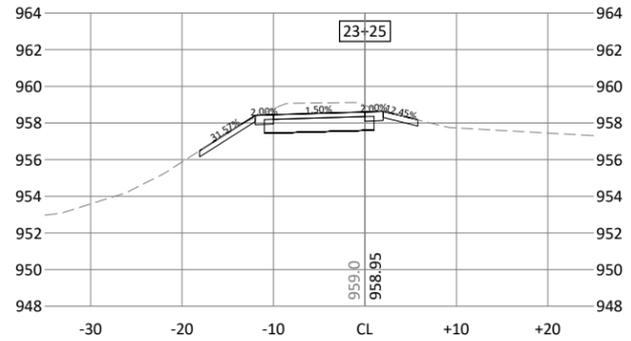
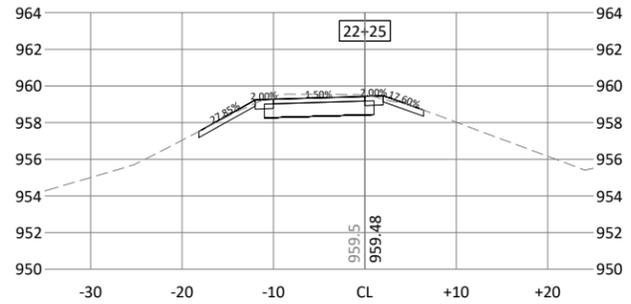


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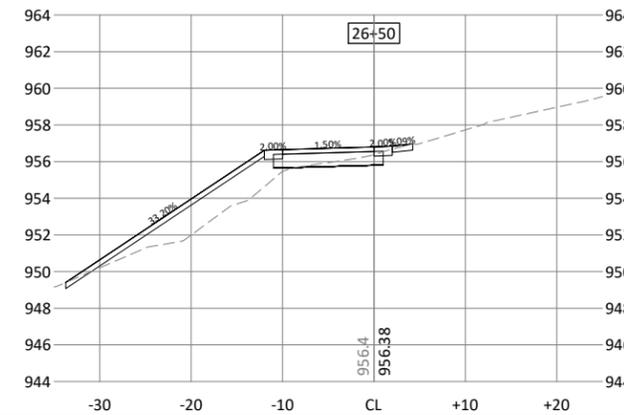
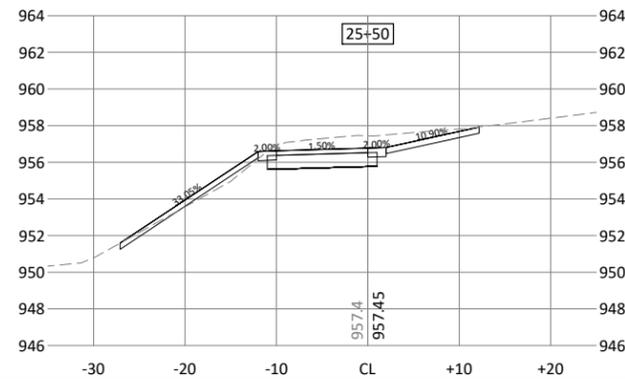
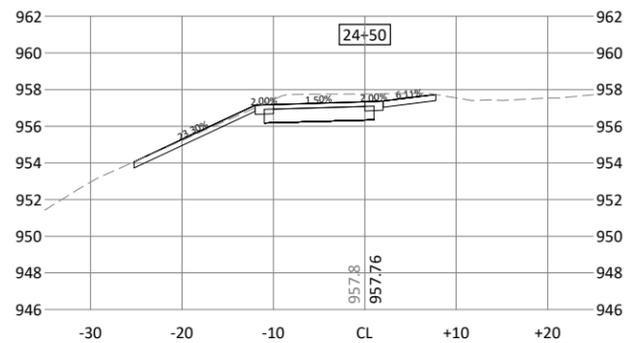
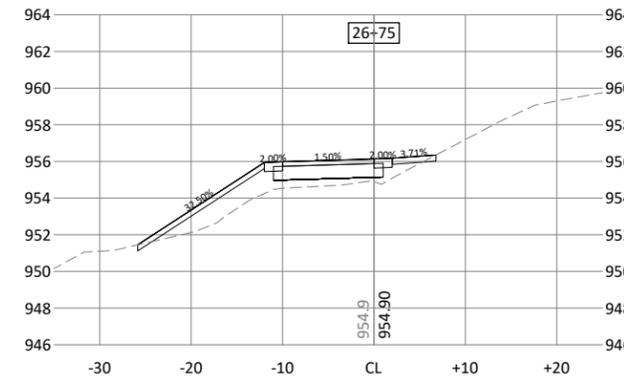
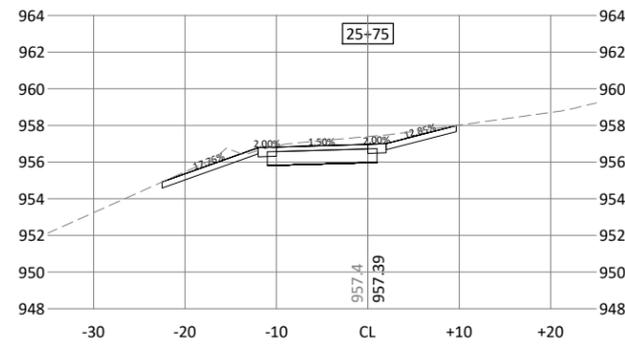
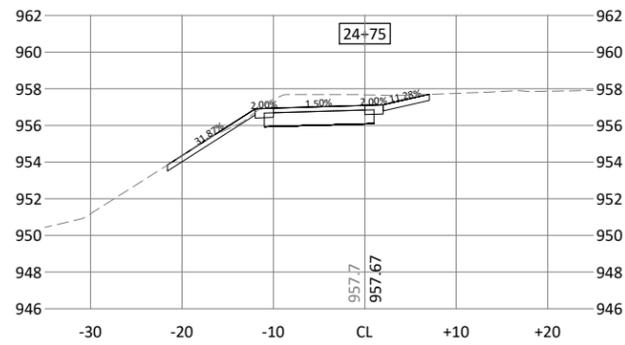
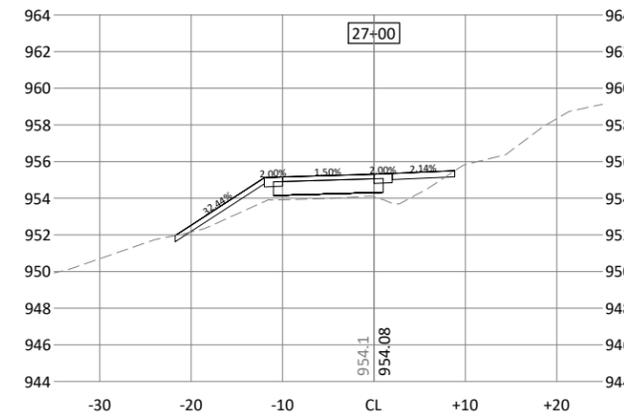
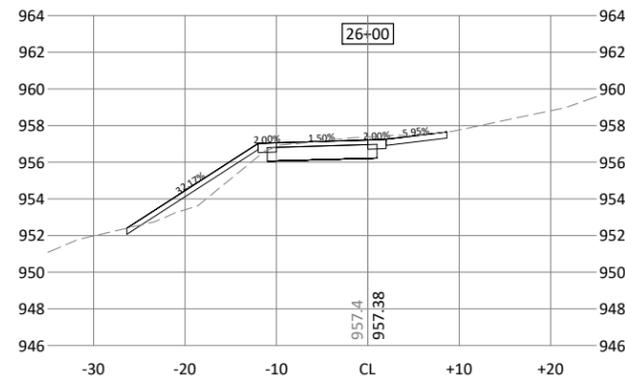
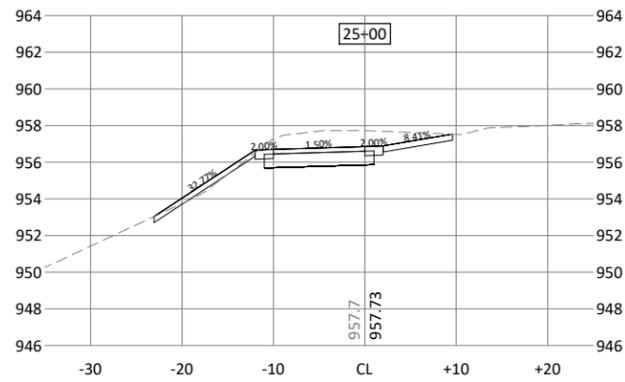
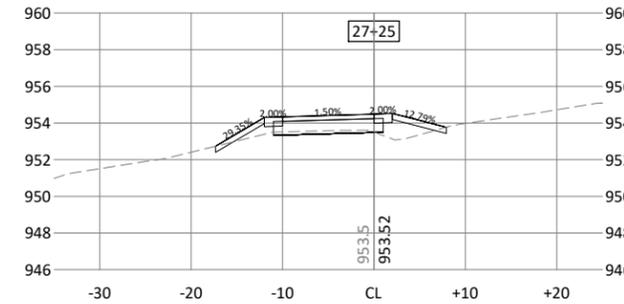
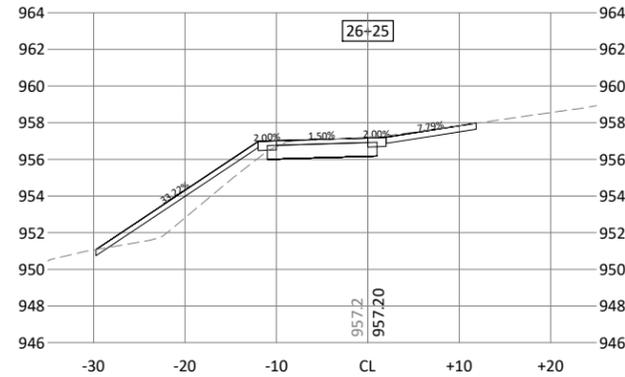
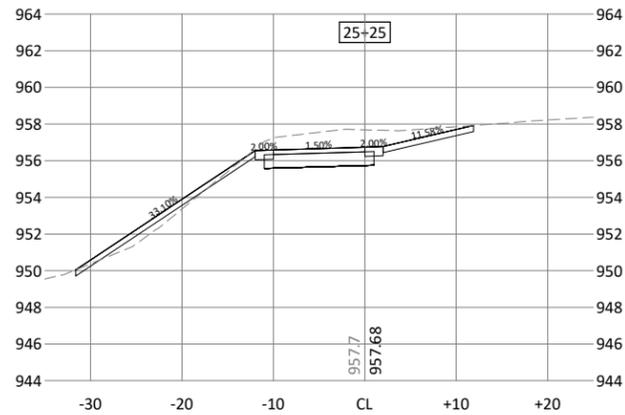
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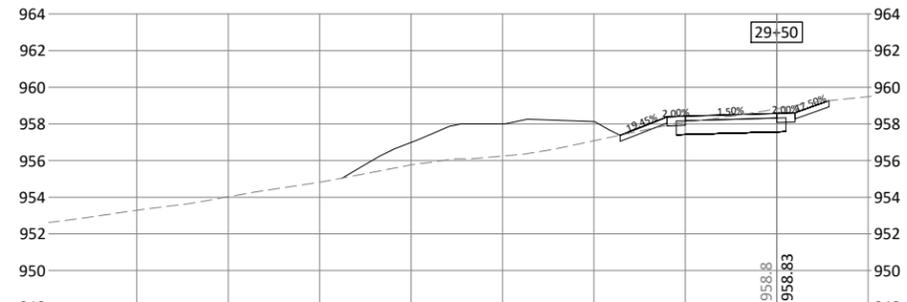
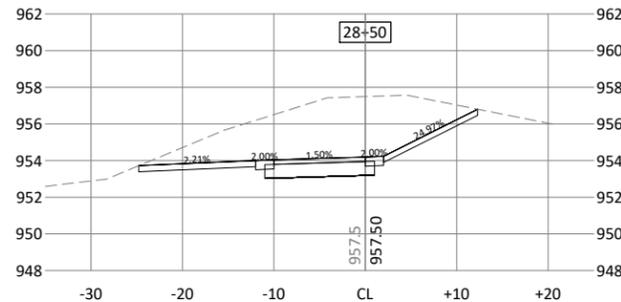
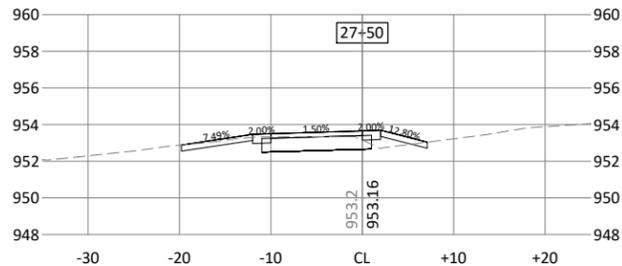
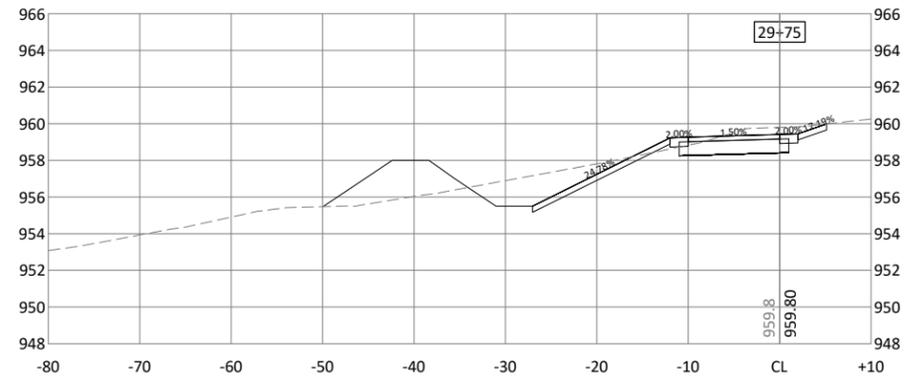
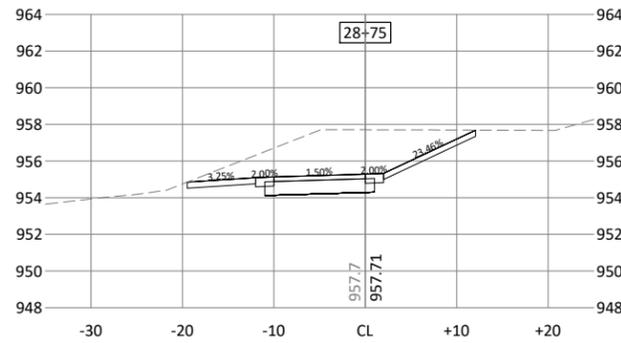
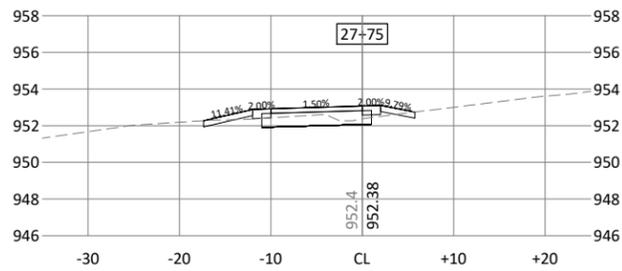
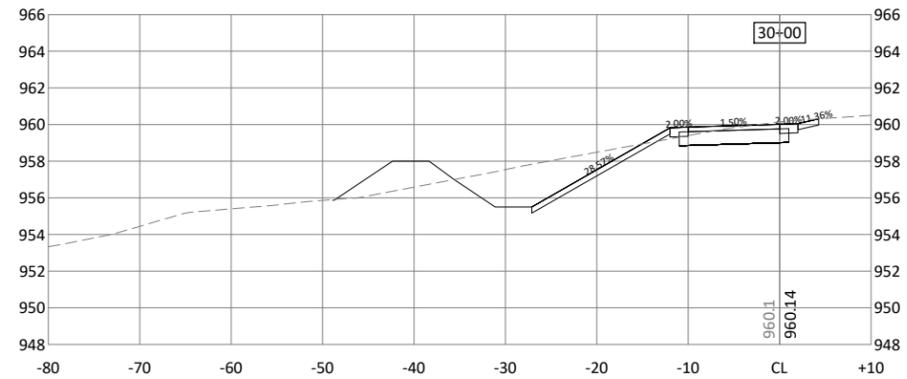
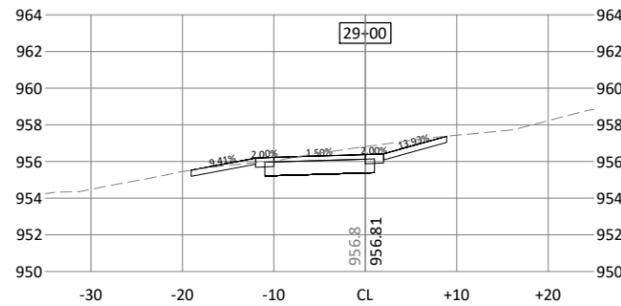
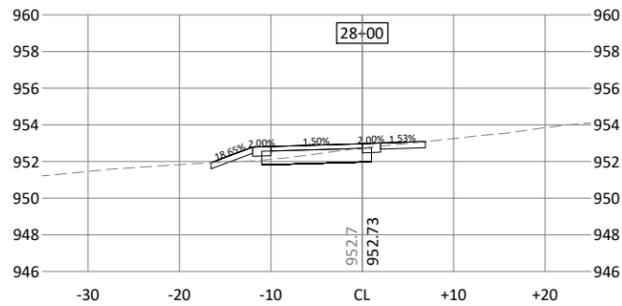
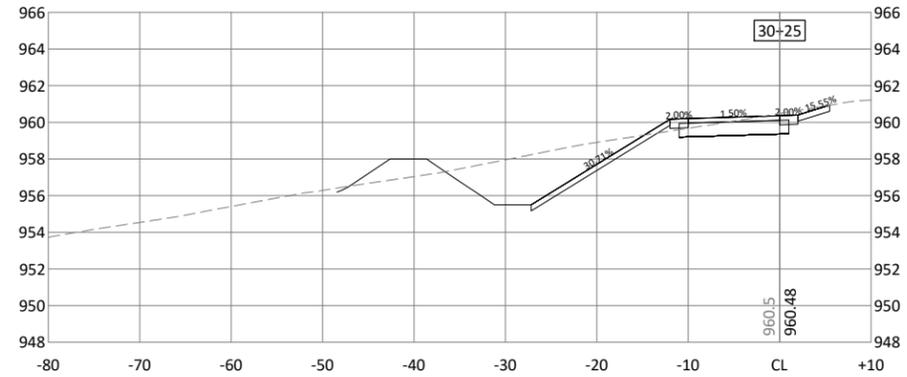
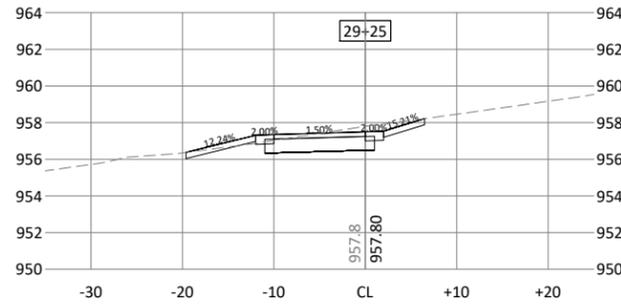
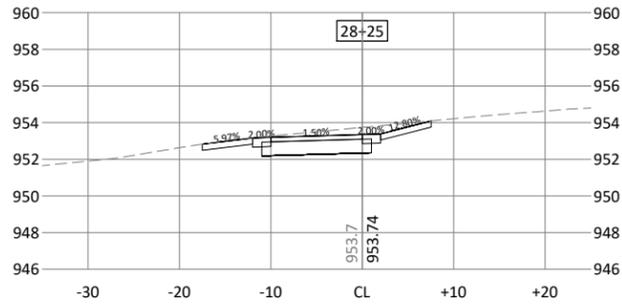


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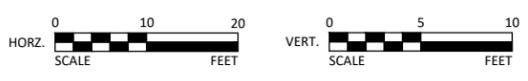
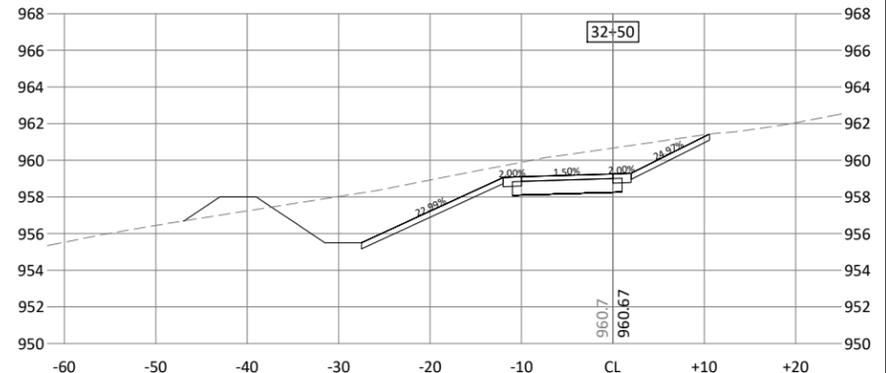
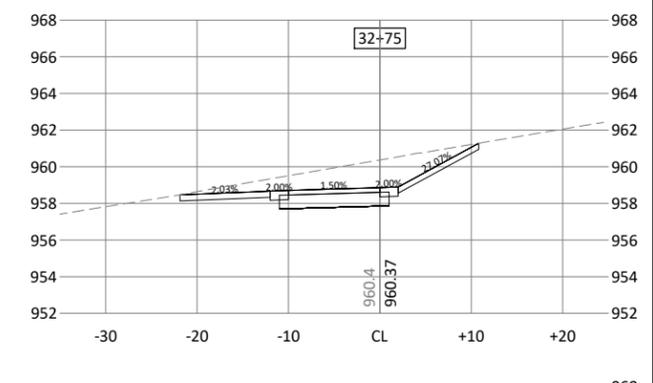
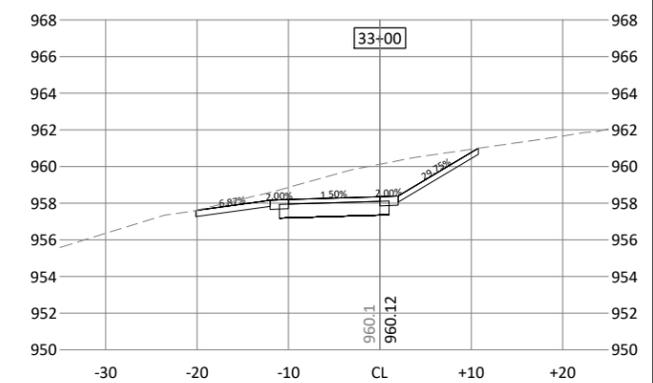
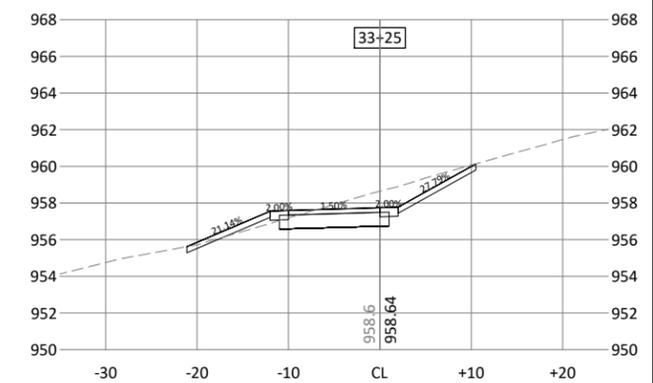
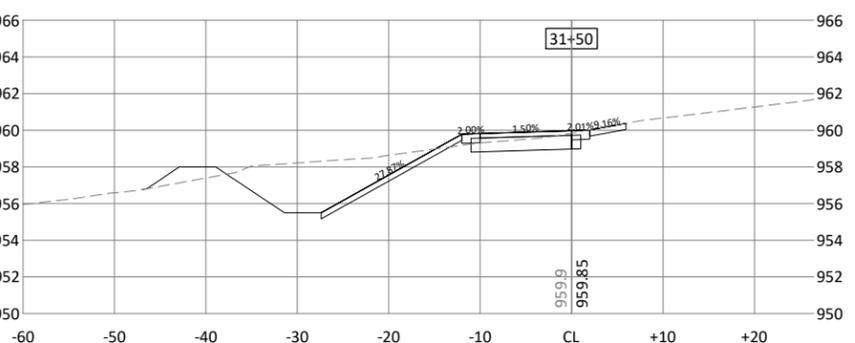
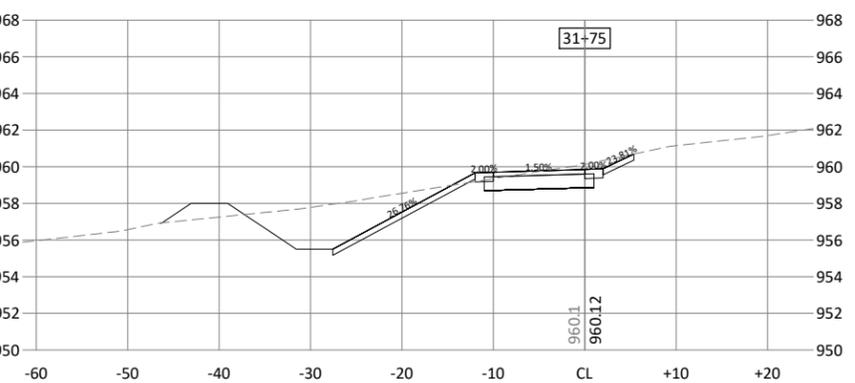
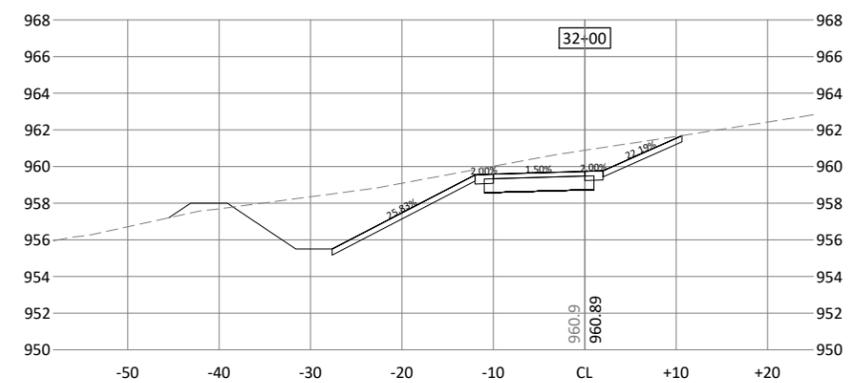
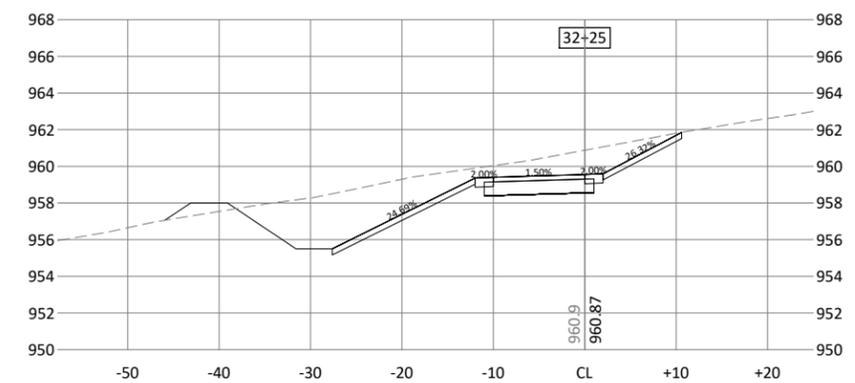
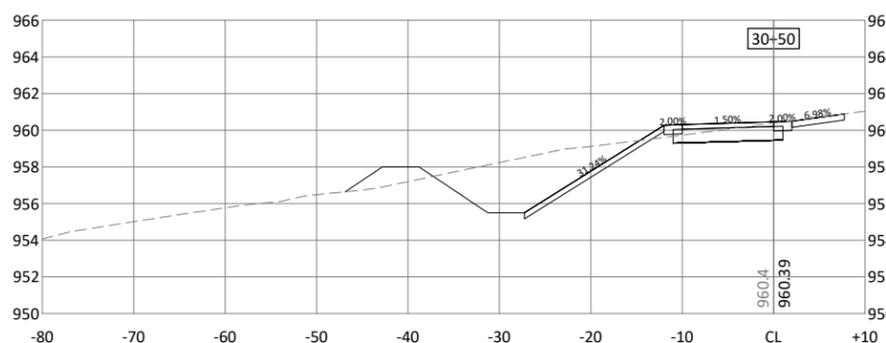
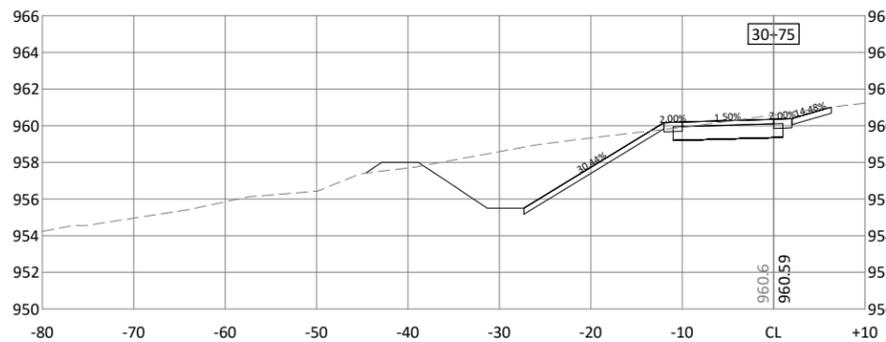
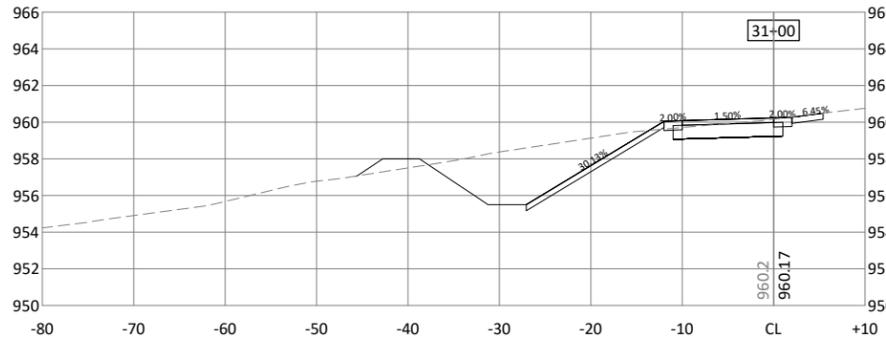
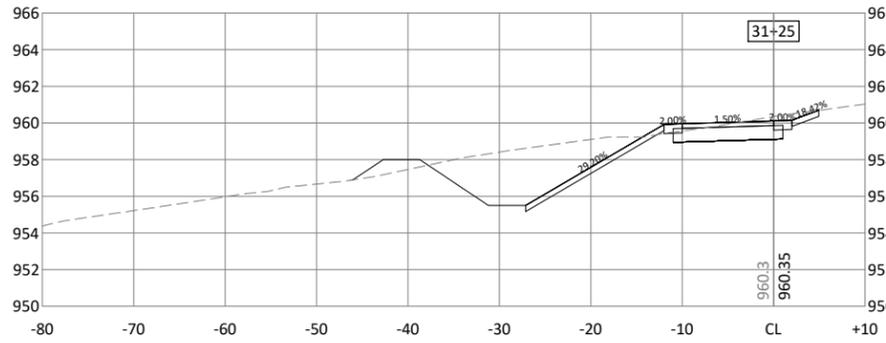


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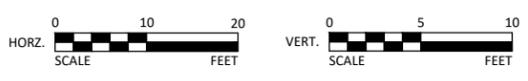
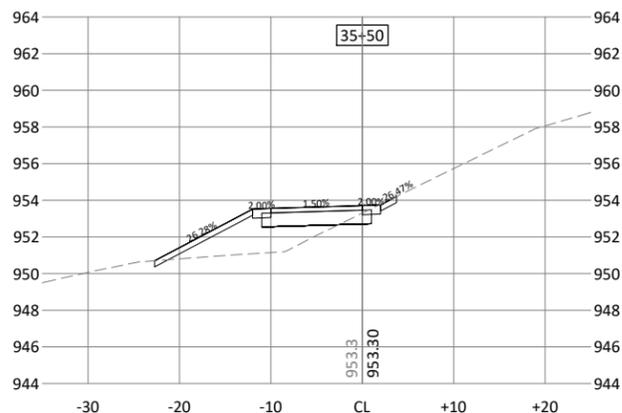
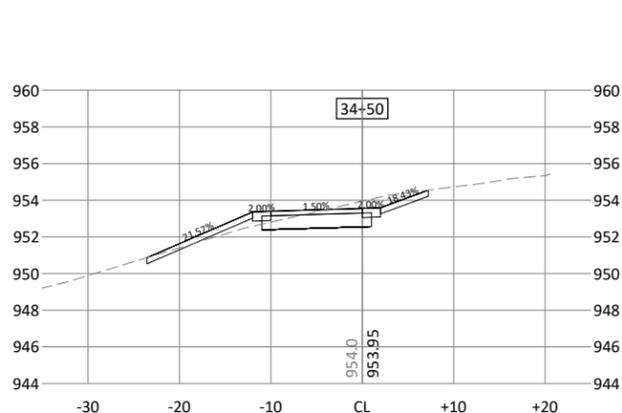
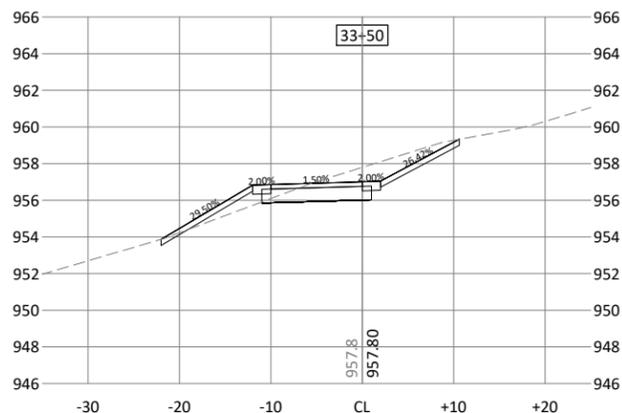
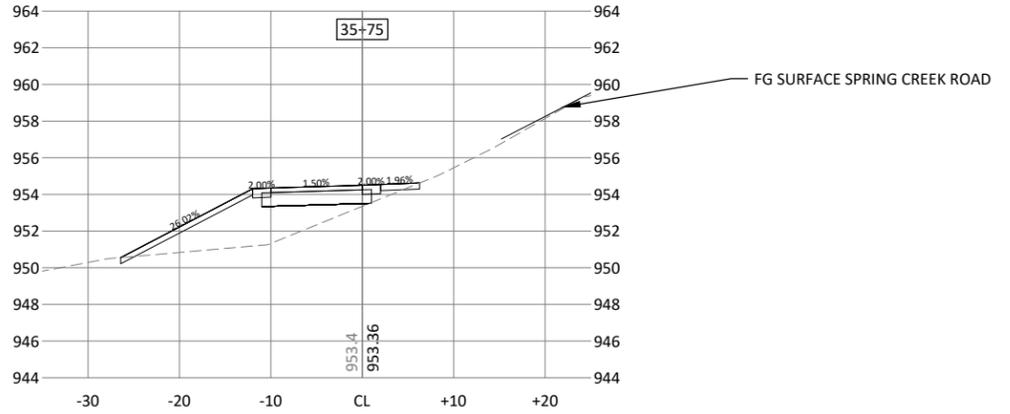
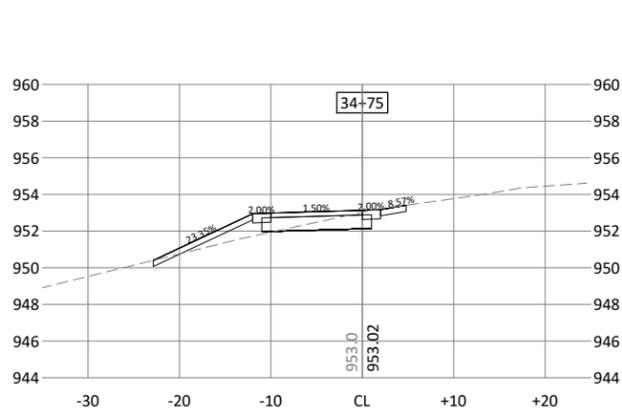
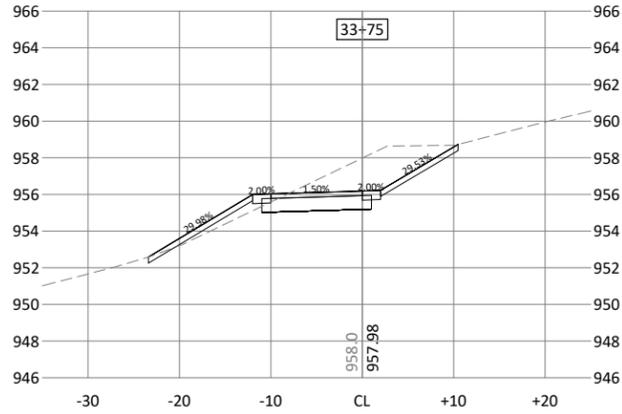
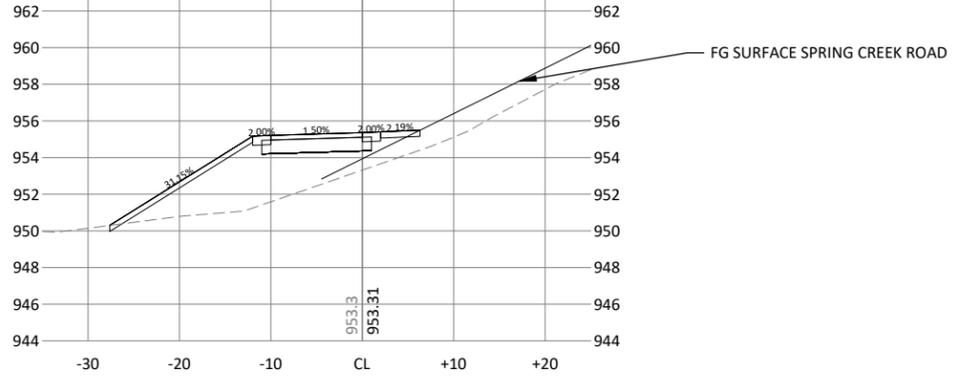
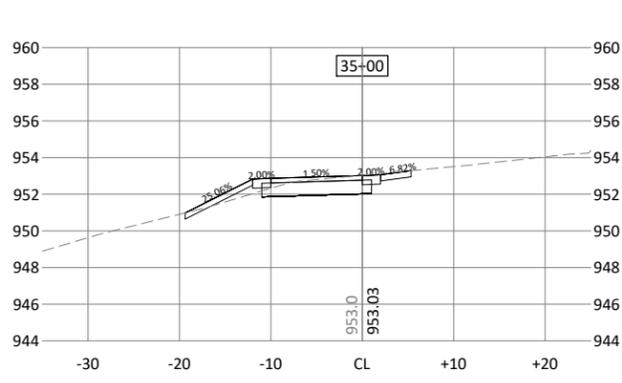
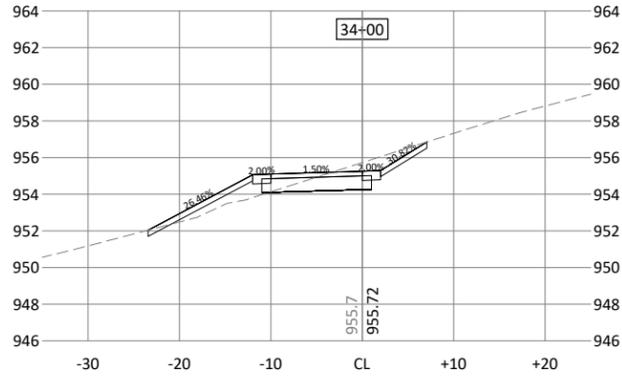
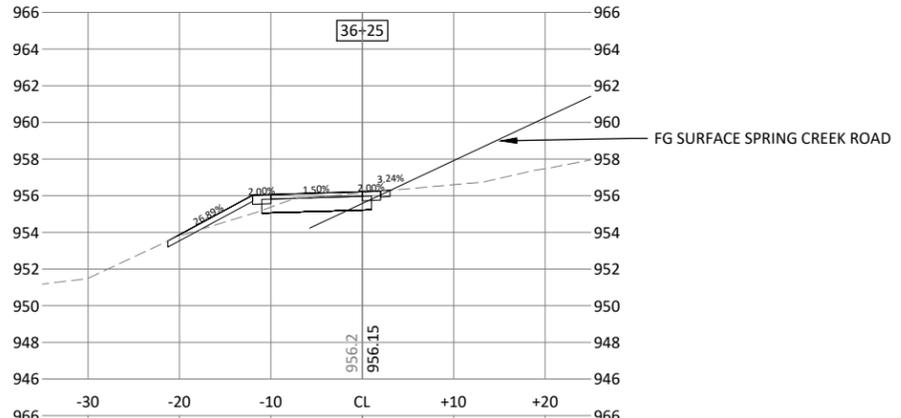
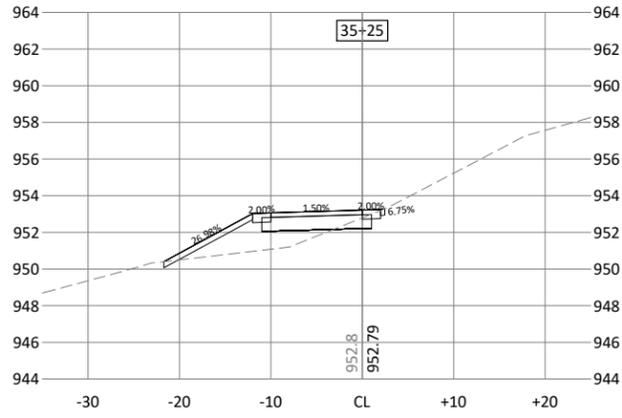
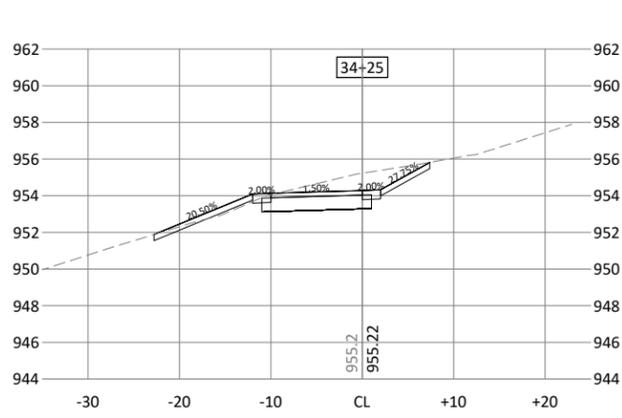


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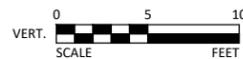
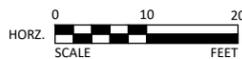
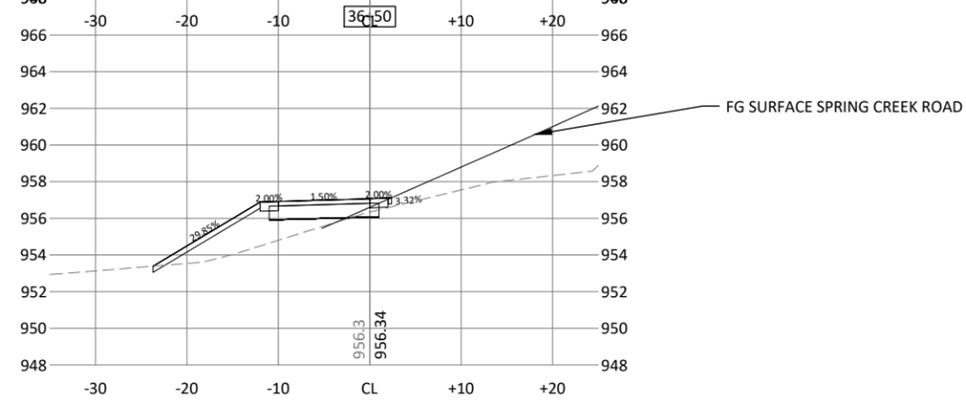
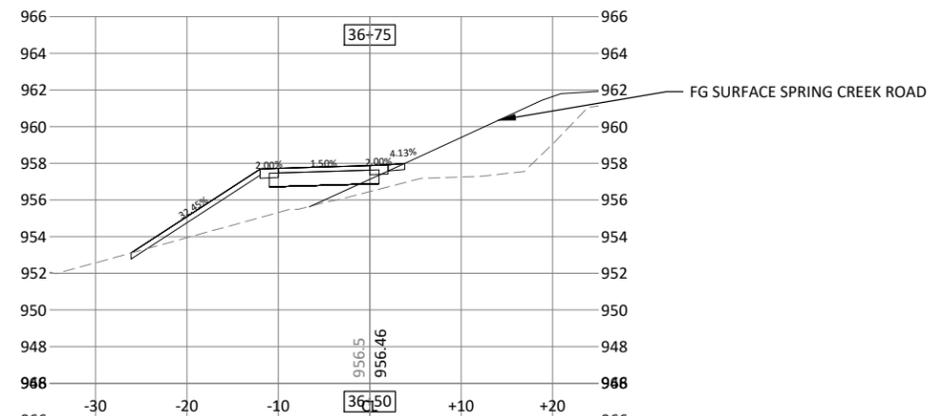
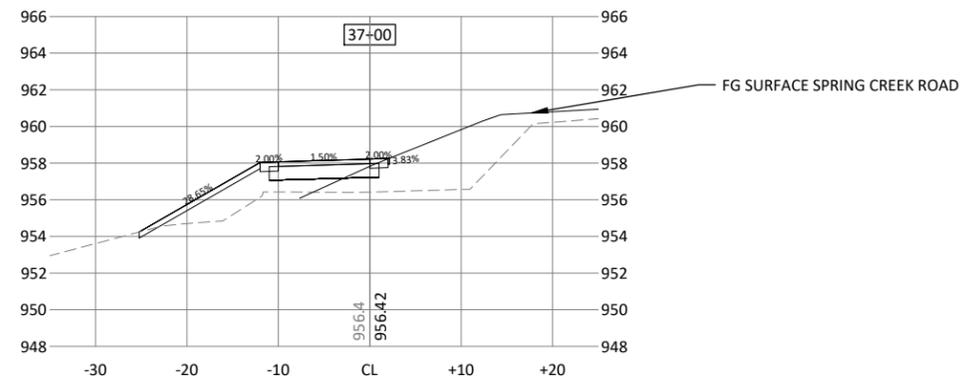
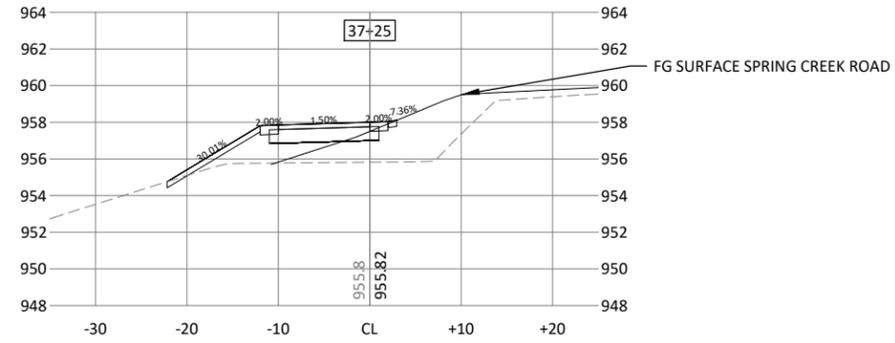


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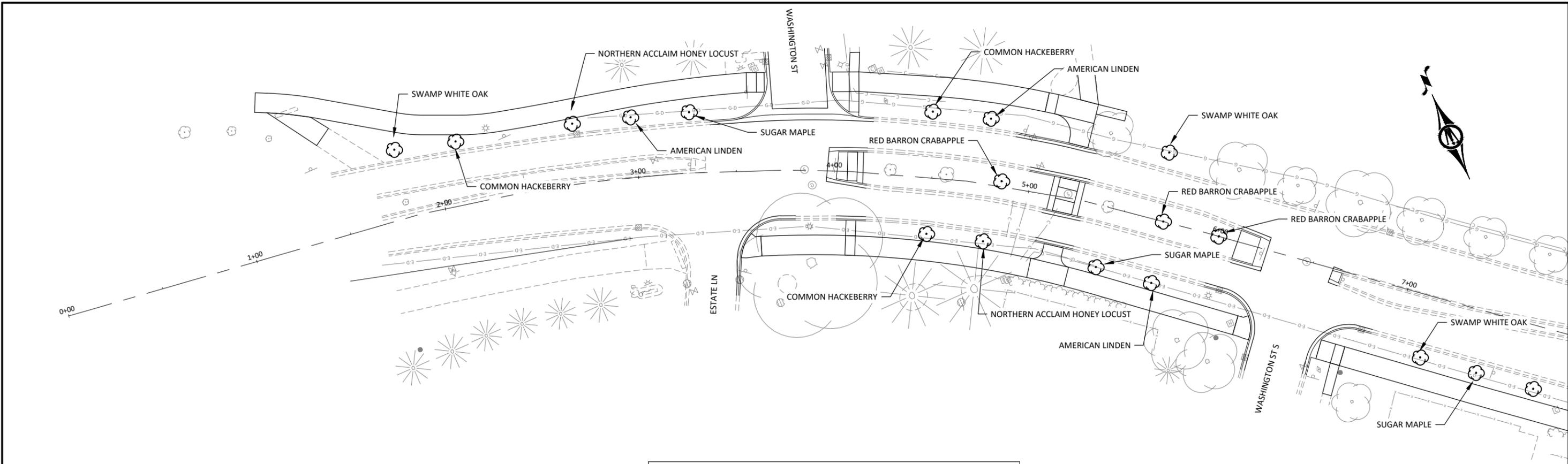
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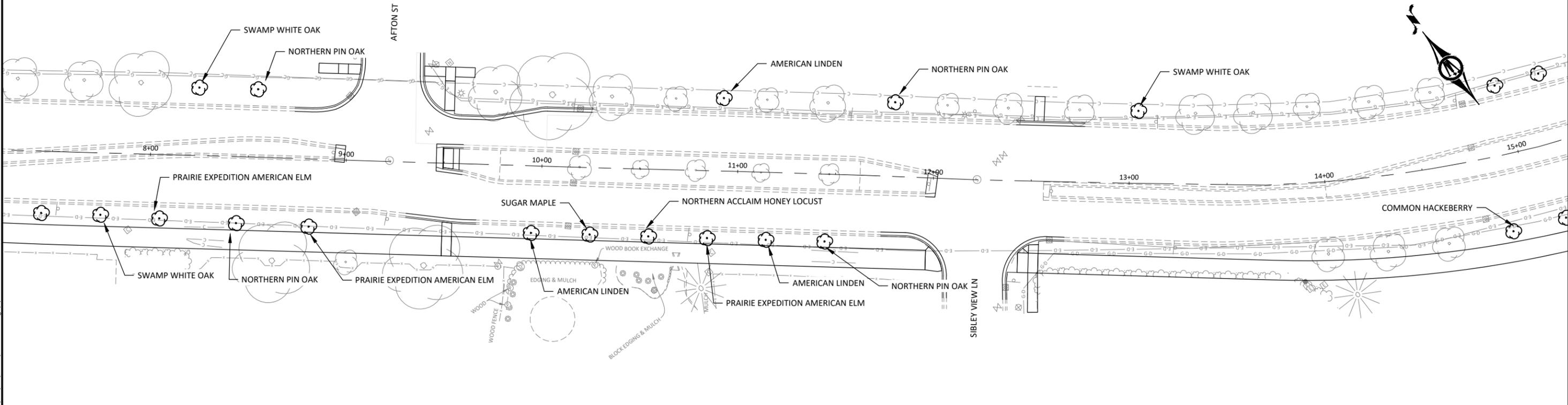
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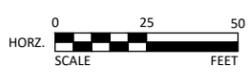
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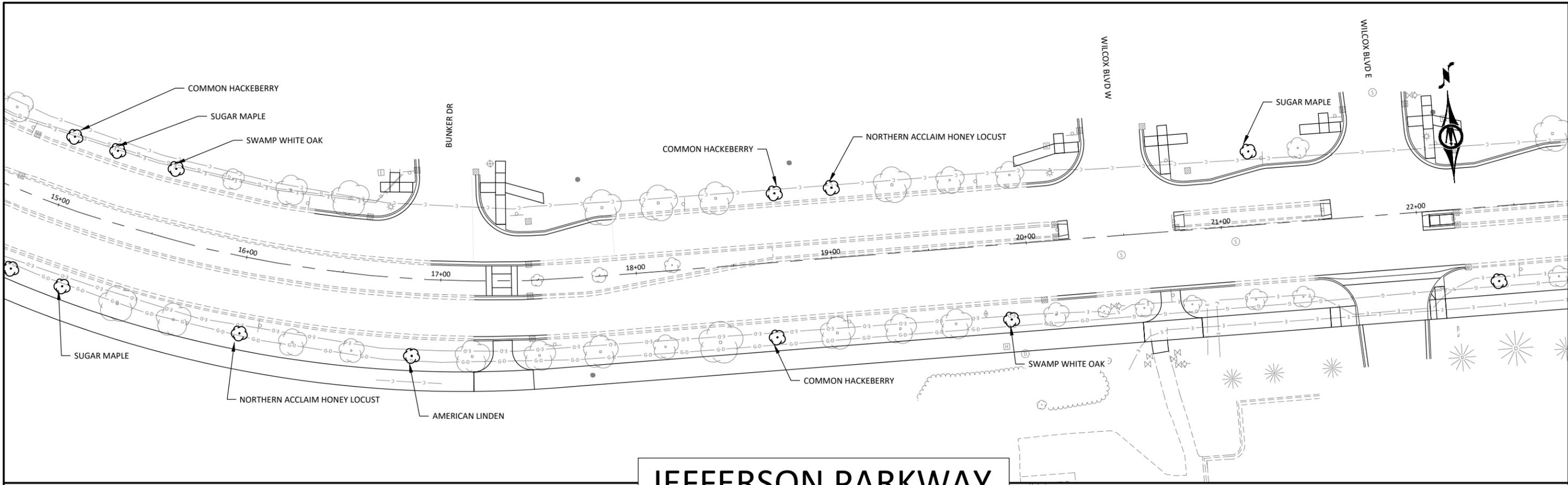
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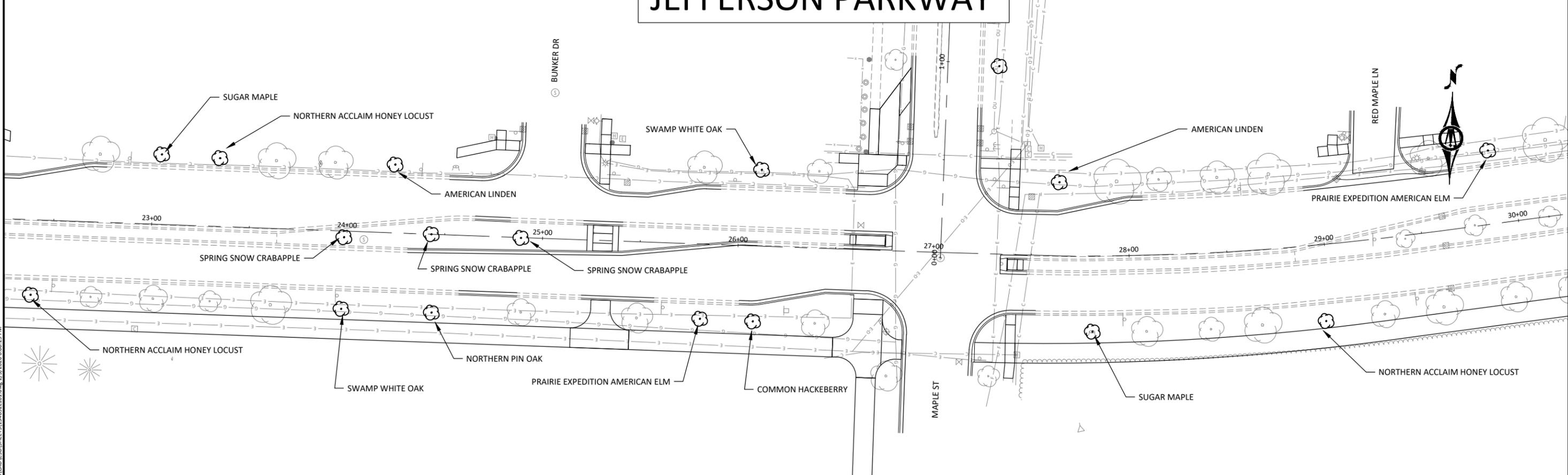
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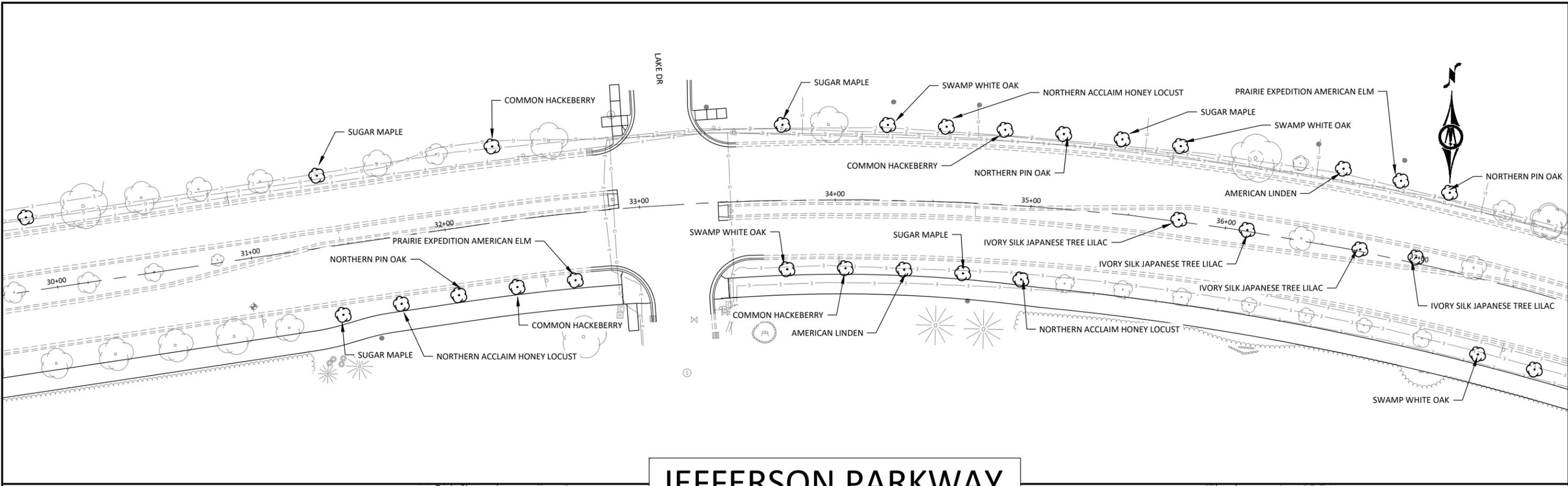
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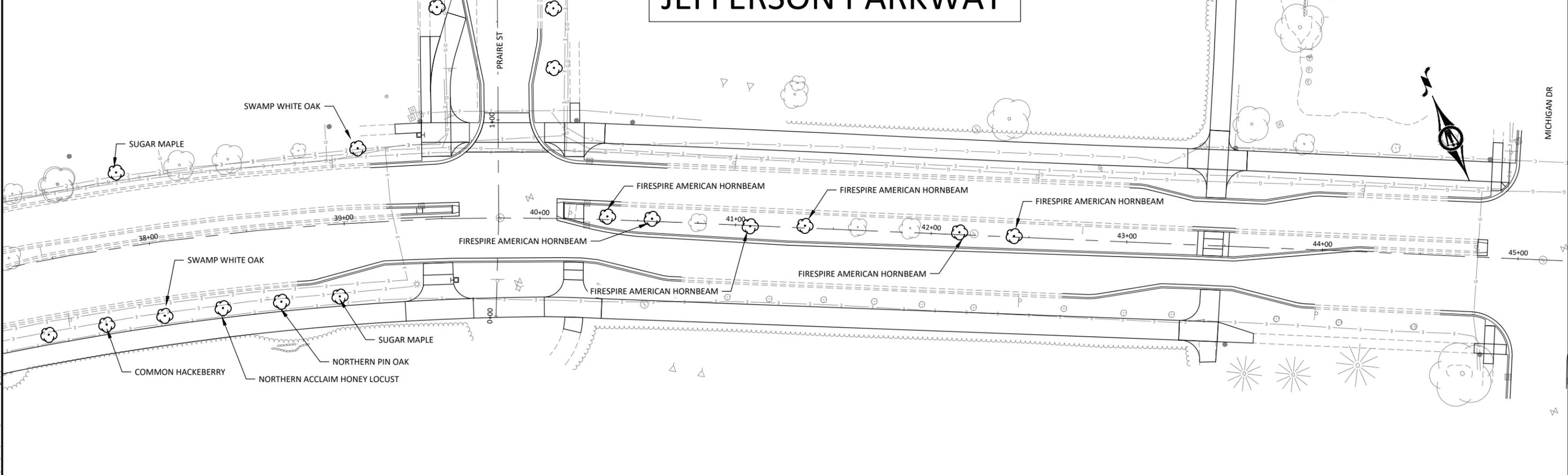
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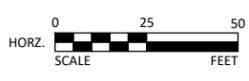
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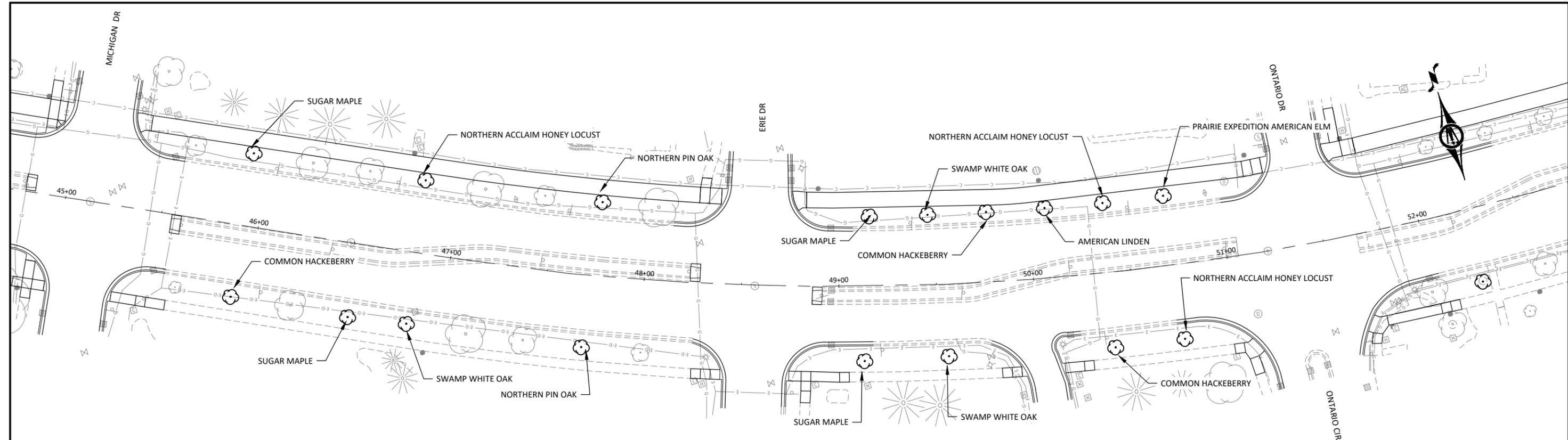
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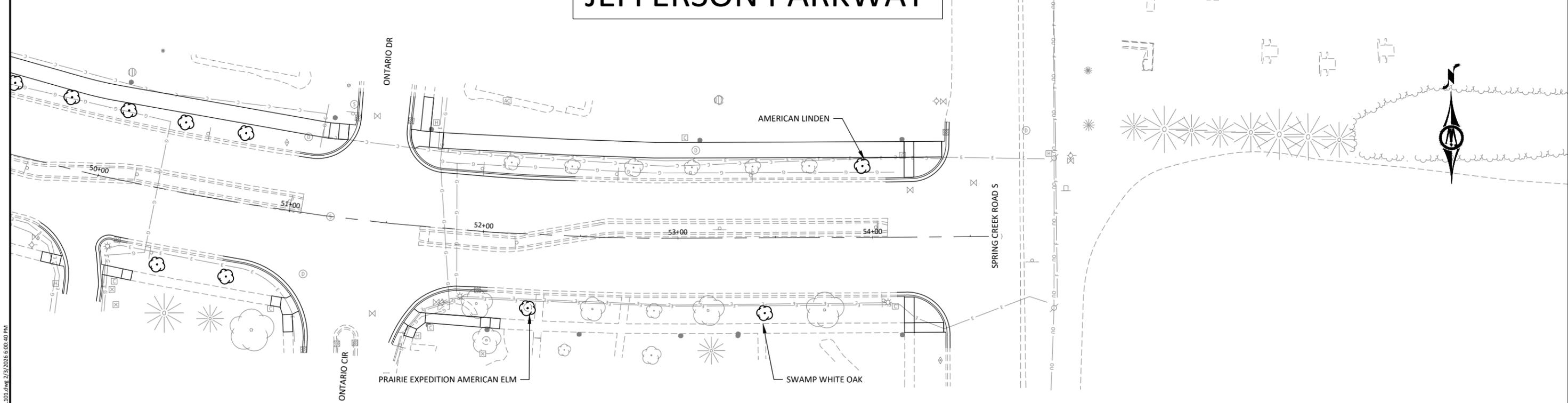
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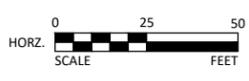
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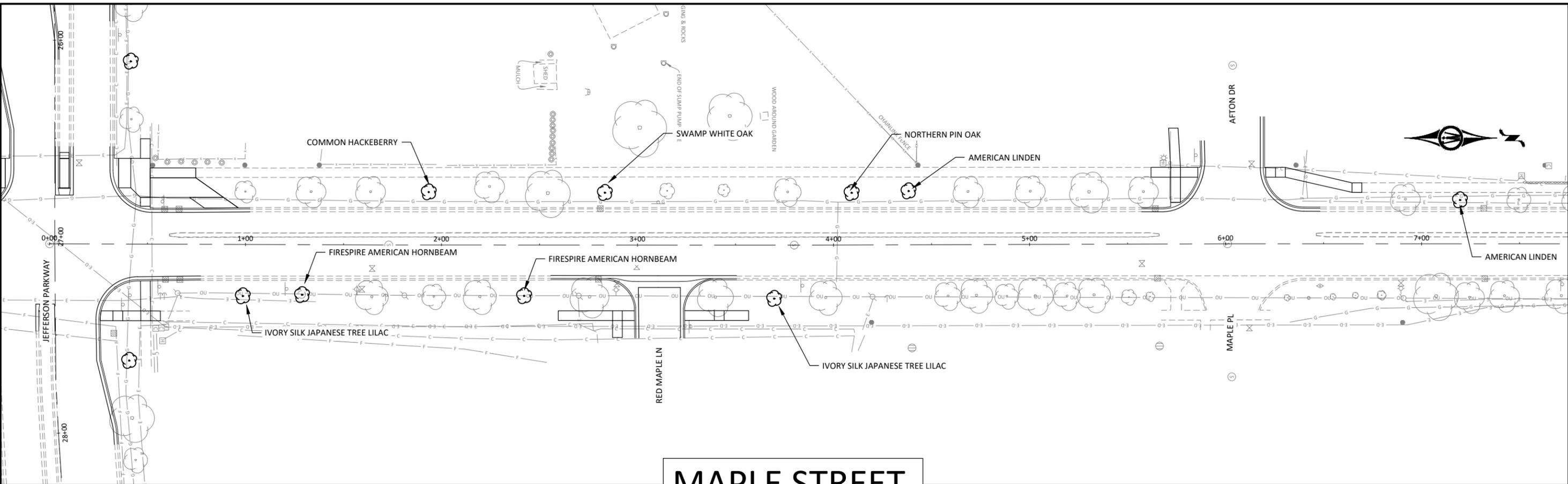
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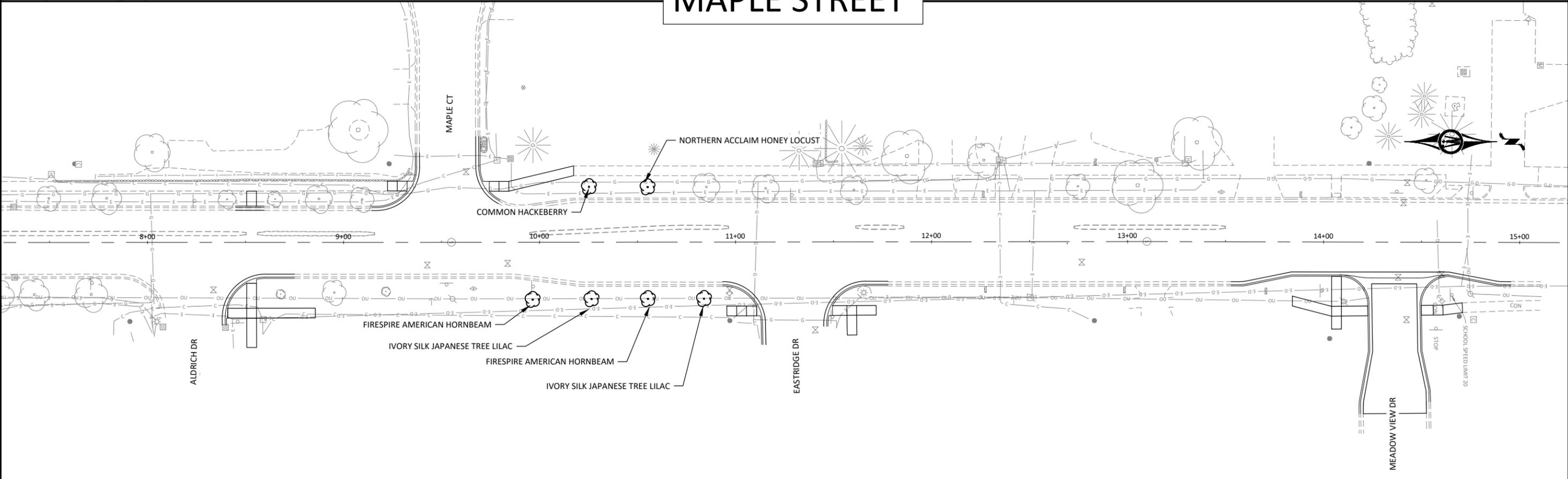
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MAPLE STREET



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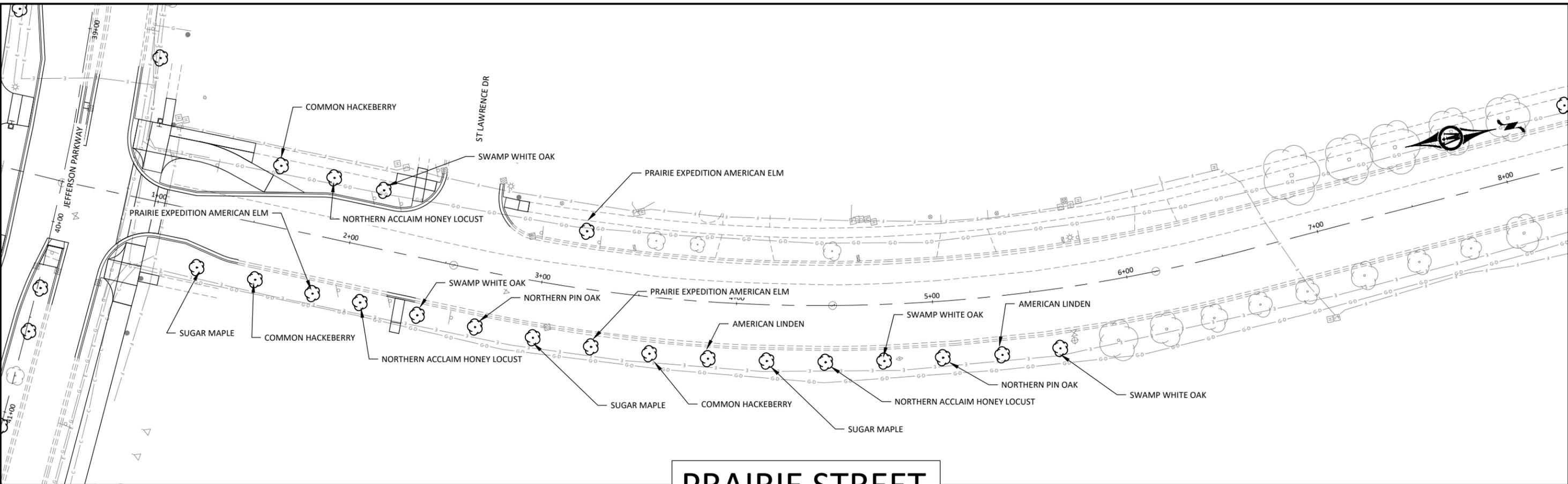
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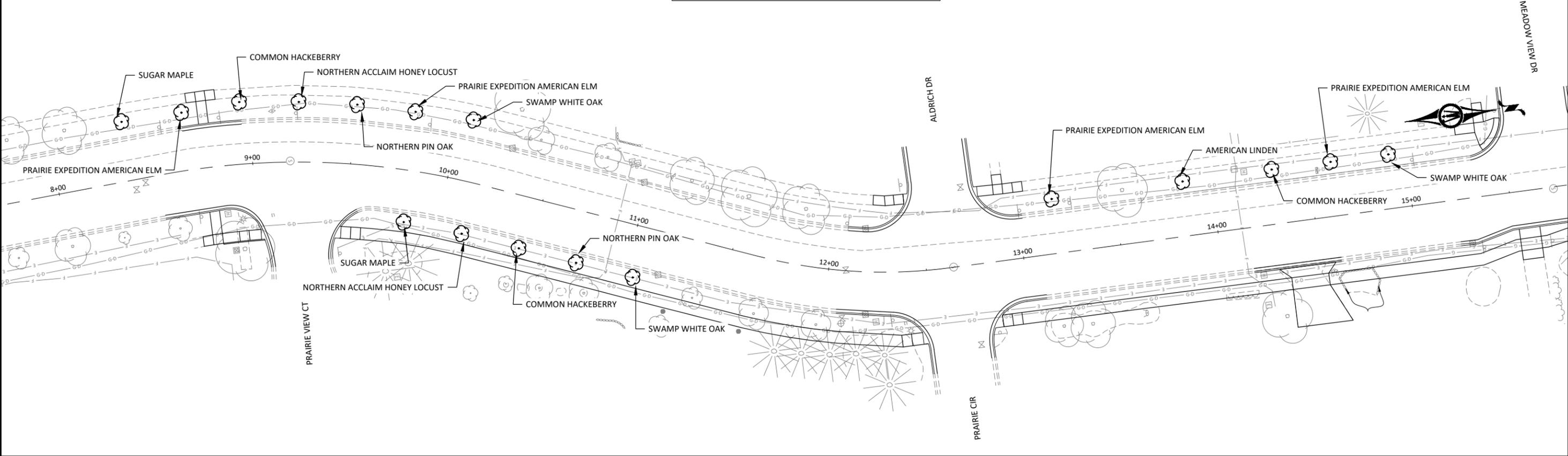
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PRAIRIE STREET



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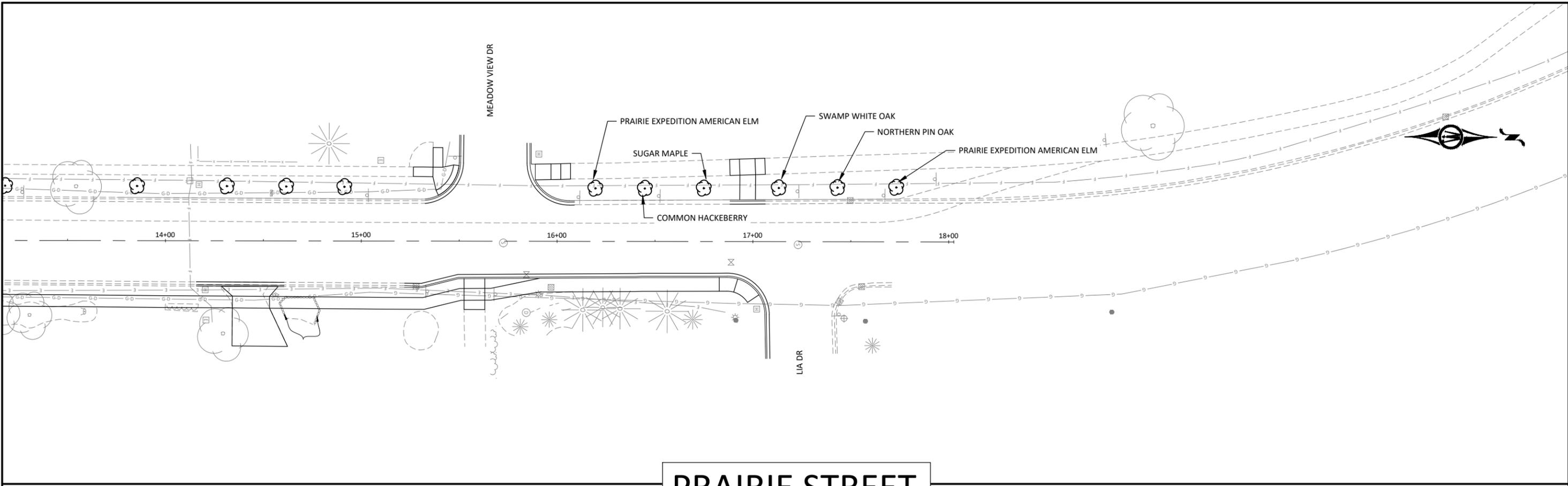
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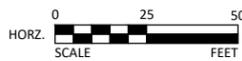
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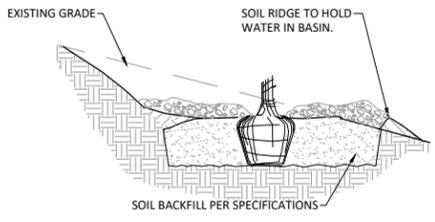
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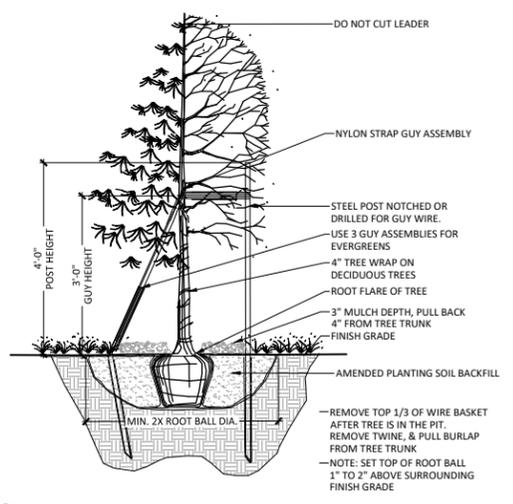
PLANT SCHEDULE

SYMBOL	CODE	QTY	BOTANICAL NAME	COMMON NAME	CALIPER	CONTAINER	HEIGHT
DECIDUOUS OVERSTORY TREES							
	AS	26	ACER SACCHARUM	SUGAR MAPLE	2.5" CAL.	B&B	
	CO	25	CELTIS OCCIDENTALIS	COMMON HACKBERRY	2.5" CAL.	B&B	
	GI	21	GLEDITSIA TRIACANTHOS INERMIS 'HARVE'	NORTHERN ACCLAIM® HONEY LOCUST	2.5" CAL.	B&B	
	QB	29	QUERCUS BICOLOR	SWAMP WHITE OAK	2.5" CAL.	B&B	
	QE	17	QUERCUS ELLIPSOIDALIS	NORTHERN PIN OAK	2.5" CAL.	B&B	
	TA	18	TILIA AMERICANA	AMERICAN LINDEN	2.5" CAL.	B&B	
	UO	18	ULMUS AMERICANA 'LEWIS & CLARK'	PRAIRIE EXPEDITION® AMERICAN ELM	2.5" CAL.	B&B	
DECIDUOUS ORNAMENTAL TREES							
	CJ	10	CARPINUS CAROLINIANA 'J.N. UPRIGHT'	FIRESPIRE® AMERICAN HORNBEAM	1.5" CAL.	B&B	
	SI	8	SYRINGA RETICULATA 'IVORY SILK'	IVORY SILK JAPANESE TREE LILAC	1.5" CAL.	B&B	
	MB	6	MALUS X 'RED BARRON'	RED BARRON CRABAPPLE	1.5" CAL.	B&B	



—ON 2:1 SLOPES OR GREATER, DO NOT CONSTRUCT THE UPHILL HALF OF THE WATERING BASIN.

1 TREE PLANTING ON SLOPES SCALE: N.T.S.

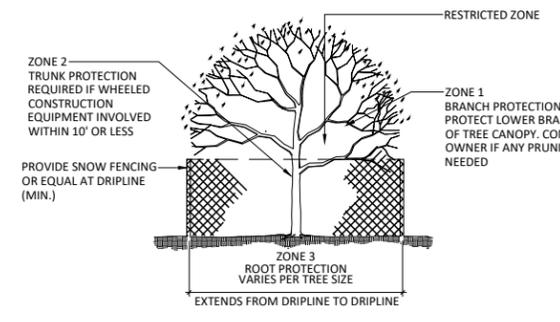


—REMOVE TOP 1/3 OF WIRE BASKET AFTER TREE IS IN THE PIT. REMOVE TWINE, & PULL BURLAP FROM TREE TRUNK
—NOTE: SET TOP OF ROOT BALL 1" TO 2" ABOVE SURROUNDING FINISH GRADE

2 TREE PLANTING SCALE: N.T.S.

TREE PROTECTION NOTES

- ALL TREES TO BE PROTECTED AND PRESERVED SHALL BE PER DETAIL. GROUPING OF MORE THAN ONE TREE MAY OCCUR.
- TREES TO BE PROTECTED AND PRESERVED SHALL BE IDENTIFIED ON THE TRUNK WITH WHITE SURVEY TAPE.
- TO PREVENT TREE ROOT SMOTHERING, SOIL STOCKPILES, SUPPLIES, EQUIPMENT OR ANY OTHER MATERIAL SHALL NOT BE PLACED OR STORED WITHIN A TREE DRIP LINE OR WITHIN 15 FEET OF A TREE TRUNK, WHICHEVER IS GREATER.
- TREE ROOTS SHALL NOT BE CUT UNLESS CUTTING IS UNAVOIDABLE.
- TRENCHES SHALL BE HAND DUG WITHIN THE DRIP LINE IN AREAS WHERE ROOTS TWO INCHES IN DIAMETER AND GREATER ARE PRESENT, OR WHEN IN CLOSE PROXIMITY TO LOW BRANCHING TREES. WHENEVER POSSIBLE, ROOTS TWO INCHES OR GREATER IN DIAMETER SHALL BE TUNNELED OR BORED UNDER AND SHALL BE COVERED TO PREVENT DEHYDRATION.
- WHEN ROOT CUTTING IS UNAVOIDABLE, A CLEAN SHARP CUT SHALL BE MADE TO AVOID SHREDDING OR SMASHING. ROOT CUTS SHOULD BE MADE BACK TO A LATERAL ROOT. WHENEVER POSSIBLE, TREE ROOTS SHOULD BE CUT BETWEEN LATE FALL AND BUD OPENING, WHEN ROOT ENERGY SUPPLIES ARE HIGH AND CONDITIONS ARE LEAST FAVORABLE FOR DISEASE CAUSING AGENTS. EXPOSED ROOTS SHALL BE COVERED IMMEDIATELY TO PREVENT DEHYDRATION. ROOTS SHALL BE COVERED WITH SOIL OR BURLAP AND KEPT MOIST.
- WATERING OF PROTECTED TREES IN WHICH ROOTS WERE CUT SHALL BE PROVIDED BY THE CONTRACTOR.
- AUGER TUNNELING RATHER THAN TRENCHING SHOULD BE USED FOR UTILITY PLACEMENT WITHIN DRIP LINE OF TREE.
- FENCING MATERIAL SHALL ENCIRCLE ANY TREE WHOSE OUTER DRIP LINE EDGE IS WITHIN 20 FEET OF ANY CONSTRUCTION ACTIVITIES.
- FENCING MATERIAL SHALL BE BRIGHT, CONTRASTING COLOR, DURABLE, AND A MINIMUM OF FOUR FEET IN HEIGHT.
- FENCING MATERIAL SHALL BE SET AT THE DRIP LINE OR 15 FEET FROM TREE TRUNK, WHICHEVER IS GREATER, AND MAINTAINED IN AN UPRIGHT POSITION THROUGHOUT THE DURATION OF CONSTRUCTION ACTIVITIES.
- ANY GRADE CHANGES (SUCH AS THE REMOVAL OF TOPSOIL OR ADDITION OF FILL MATERIAL) WITHIN THE DRIP LINE SHOULD BE AVOIDED FOR EXISTING TREES TO REMAIN. RETAINING WALLS AND TREE WELLS ARE ACCEPTABLE ONLY WHEN CONSTRUCTED PRIOR TO GRADE CHANGE.



3 EXISTING TREE PROTECTION SCALE: N.T.S.

GENERAL PLANTING NOTES:

- SEE C2.04 EROSION CONTROL SHEET FOR TURF REESTABLISHMENT IN AREAS DISTRIBUTED BY CONSTRUCTION.
- PROVIDE PLANT MATERIAL OF SIZE, GENUS, SPECIES, AND VARIETY SHOWN AND COMPLYING WITH REQUIREMENTS OF MOST RECENT VERSION OF ANSI Z60.1 "AMERICAN STANDARD FOR NURSERY STOCK." ALL PLANTING MATERIAL SUBJECT TO APPROVAL BY OWNER OR OWNER'S REPRESENTATIVE.
- PLANT SCHEDULES: ALL TREES, SHRUBS, PERENNIALS, AND ORNAMENTAL GRASSES ARE LISTED IN THE PLANT SCHEDULE. IF THERE IS A CONFLICT BETWEEN THE QUANTITIES SHOWN ON THE PLAN DRAWING AND THE QUANTITIES SHOWN IN THE PLANT SCHEDULE, THE PLAN QUANTITIES SHALL PREVAIL.
- PLANTINGS TO BE INSTALLED PER DETAILS IN THIS PLAN SET AND MNDOT STANDARD PLANS 5-297.301 AND SPECIFICATION 2571 - PLANT INSTALLATION & ESTABLISHMENT.
- PRIOR TO DIGGING, IT IS REQUIRED BY LAW TO CALL GOPHER STATE ONE CALL FOR UTILITY LOCATIONS: (651) 453-0002
- TREE PLANTING HOLE SHALL BE A MINIMUM OF 1' LARGER THAN ROOT BALL ON ALL SIDES. CONTRACTOR SHALL SCARIFY THE BOTTOM AND SIDES OF PLANTING HOLE PRIOR TO INSTALLING TREE.
- MAINTAIN AND WARRANTY ALL LIVING PLANT MATERIAL AS PER SPECIFICATIONS. ANY ACTS OF VANDALISM OR DAMAGE WHICH MAY OCCUR PRIOR TO THE OWNER'S WRITTEN ACCEPTANCE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- ADJUSTMENT IN LOCATION OF PROPOSED PLANT MATERIAL MAY BE NEEDED IN THE FIELD. SHOULD AN ADJUSTMENT BE ADVISED, CONTRACTOR SHALL COORDINATE WITH LANDSCAPE ARCHITECT ON PLANNED ADJUSTMENT.
- NO PLANT MATERIAL SUBSTITUTIONS WILL BE ACCEPTED UNLESS APPROVAL IS REQUESTED OF THE LANDSCAPE ARCHITECT BY THE CONTRACTOR PRIOR TO THE SUBMISSION OF A BID AND/OR QUOTATION.
- IF THE CONTRACTOR PERCEIVES ANY DEFICIENCIES IN THE PLANT SELECTIONS, SOIL CONDITIONS, OR ANY OTHER SITE CONDITIONS THAT MAY NEGATIVELY AFFECT PLAN MATERIAL ESTABLISHMENT, SURVIVAL, OR GUARANTEE, CONTRACTOR SHALL BRING THESE DEFICIENCIES TO THE ATTENTION OF THE OWNER OR OWNER'S REPRESENTATIVE/LANDSCAPE ARCHITECT.
- ALL TREE PLANTINGS SHALL MAINTAIN A 2-FT CLEAR ZONE FROM EDGE OF TRAIL, UNLESS OTHERWISE SPECIFICALLY DIRECTED OR IDENTIFIED ON THE PLAN.

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I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
 JASON A. MALECHA, P.E.
 LIC. NO. 57151 DATE MM/DD/YYYY



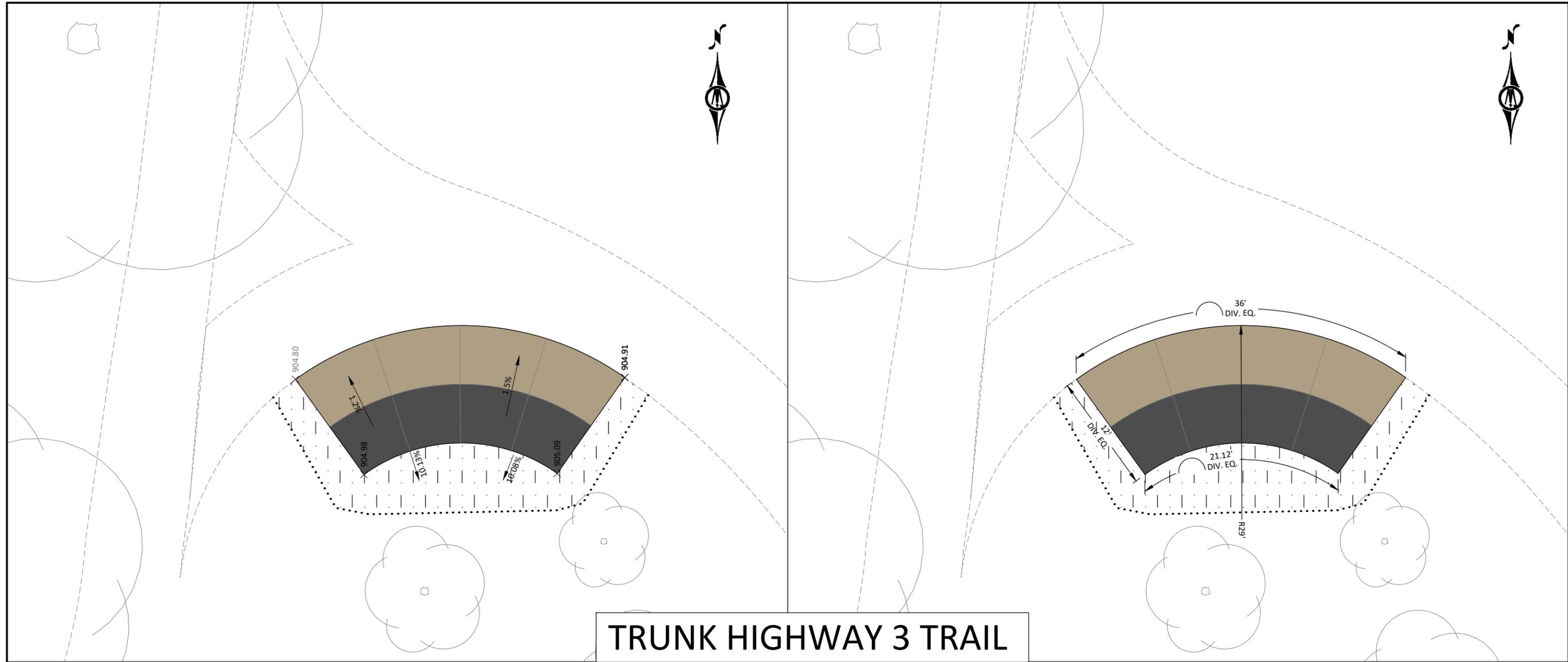
12224 NICOLLET AVENUE
 BURNSVILLE, MN 55337
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 Email: Burnsville@bolton-menk.com
 www.bolton-menk.com



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NORTHFIELD, MINNESOTA
 2026 JEFFERSON PKWY M&O AND MTST IMPROVEMENTS
 LANDSCAPING PLAN
 JEFFERSON PARKWAY

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 OF
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TRUNK HIGHWAY 3 TRAIL

1 MILL TOWNS TRAIL PLAZA - LAYOUT PLAN

2 MILL TOWNS TRAIL PLAZA - SCORING PLAN

HATCH LEGEND		MISCELLANEOUS	
	6" CONCRETE WALK SPECIAL 1 COLOR = STONE ARCH BUFF		CONSTRUCTION LIMITS
	6" CONCRETE WALK SPECIAL 2 COLOR = HARBOR MIST		ROLLED EROSION PREVENTION CATEGORY 20 AND SEED MIXTURE SB (25-131)



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NORTHFIELD, MINNESOTA
2026 JEFFERSON PKWY M&O AND MTST IMPROVEMENTS
LANDSCAPING PLAN
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