

2025 STREET REHABILITATION PROJECT

CITY OF LAKEVILLE

CONSTRUCTION PLAN FOR BITUMINOUS MILL AND OVERLAY, STORM IMPROVEMENTS

EXISTING PLAN SYMBOLS

PROPERTY LINES/RIGHT-OF-WAY	---
UTILITY EASEMENT	---
TREE LINE	~~~~~
SIGN	↑
DECIDUOUS TREE	⊗
SHRUB	⊗
CONIFEROUS TREE	⊗

EXISTING UTILITY SYMBOLS

FIBER OPTIC LINE	---	F
GAS LINE	---	G
COMMUNICATION LINE	---	C
ELECTRIC POWER LINE	---	E
WATER MAIN	---	W
SANITARY SEWER	---	S
STORM SEWER	---	SS
COMMUNICATIONS PEDESTAL	⊞	
POWER POLE	⊞	
ELECTRIC BOX	⊞	
CATCH BASIN	⊞	
STORM APRON	⊞	
STORM SEWER MANHOLE	⊞	
GATE VALVE	⊞	
HYDRANT	⊞	
SANITARY SEWER MANHOLE	⊞	

GOVERNING SPECIFICATIONS

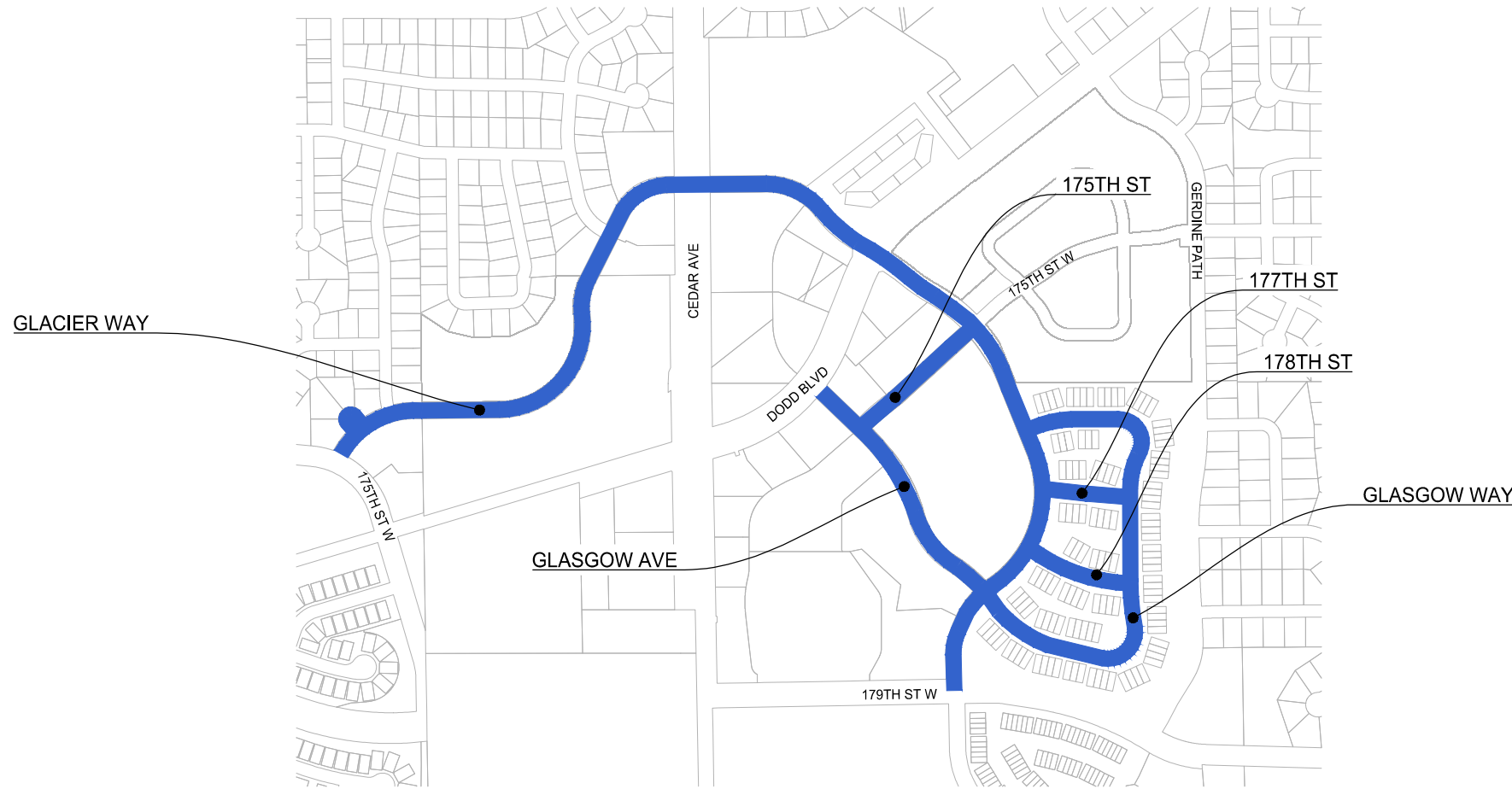
THIS WORK SHALL BE DONE IN ACCORDANCE WITH THE 2024 EDITION OF THE CITY OF LAKEVILLE "GENERAL SPECIFICATIONS AND STANDARD DETAIL PLATES FOR STREET AND UTILITY CONSTRUCTION."

THE 2020 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN.

ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE LATEST EDITION OF THE MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, INCLUDING THE LATEST FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS.

PLAN SET INDEX

SHEET NO.	DESCRIPTION
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56 - 61	STANDARD PLANS



PROJECT LOCATION MAP

THIS PLAN SET CONTAINS 61 SHEETS

THIS PLAN SET HAS BEEN PREPARED FOR:



CITY OF LAKEVILLE, MN
18400 IPAVA AVENUE
LAKEVILLE, MN 55044
(952) 985-2700

ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS AND ORDINANCES WILL BE COMPLIED WITH IN THE CONSTRUCTION OF THIS PROJECT.



I HEREBY CERTIFY THAT THIS PLAN 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.

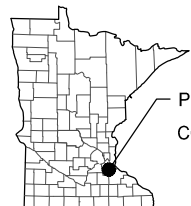
Jeffrey A. Oliver
JEFFREY A. OLIVER, P.E.

DATE: 02/03/2025

LICENSE NUMBER: 23110

EXCAVATION NOTICE SYSTEM

A CALL TO GOPHER STATE ONE (651-454-0002) IS REQUIRED A MINIMUM OF 48 HOURS PRIOR TO PERFORMING ANY EXCAVATION.



PROJECT LOCATION
COUNTY: DAKOTA

TWP 114, RNG 20

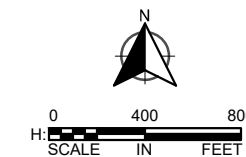
HORIZONTAL DATUM: NAD83 (2011) ADJUSTMENT
VRS MOUNT POINT: 2011 CMRX
VERTICAL DATUM: NAVD88
GEOID: MN12B

UTILITY INFORMATION

THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL D. THIS UTILITY QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CI/ASCE 38-22, ENTITLED, "STANDARD GUIDELINES FOR INVESTIGATING AND DOCUMENTING EXISTING UTILITIES".

GOPHER ONE CALL TICKET NUMBER: 242261399, 242261470, 242261471, 242261472, 242261473

UTILITY COORDINATION MEETING HELD ON: 01/07/2025

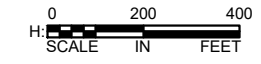
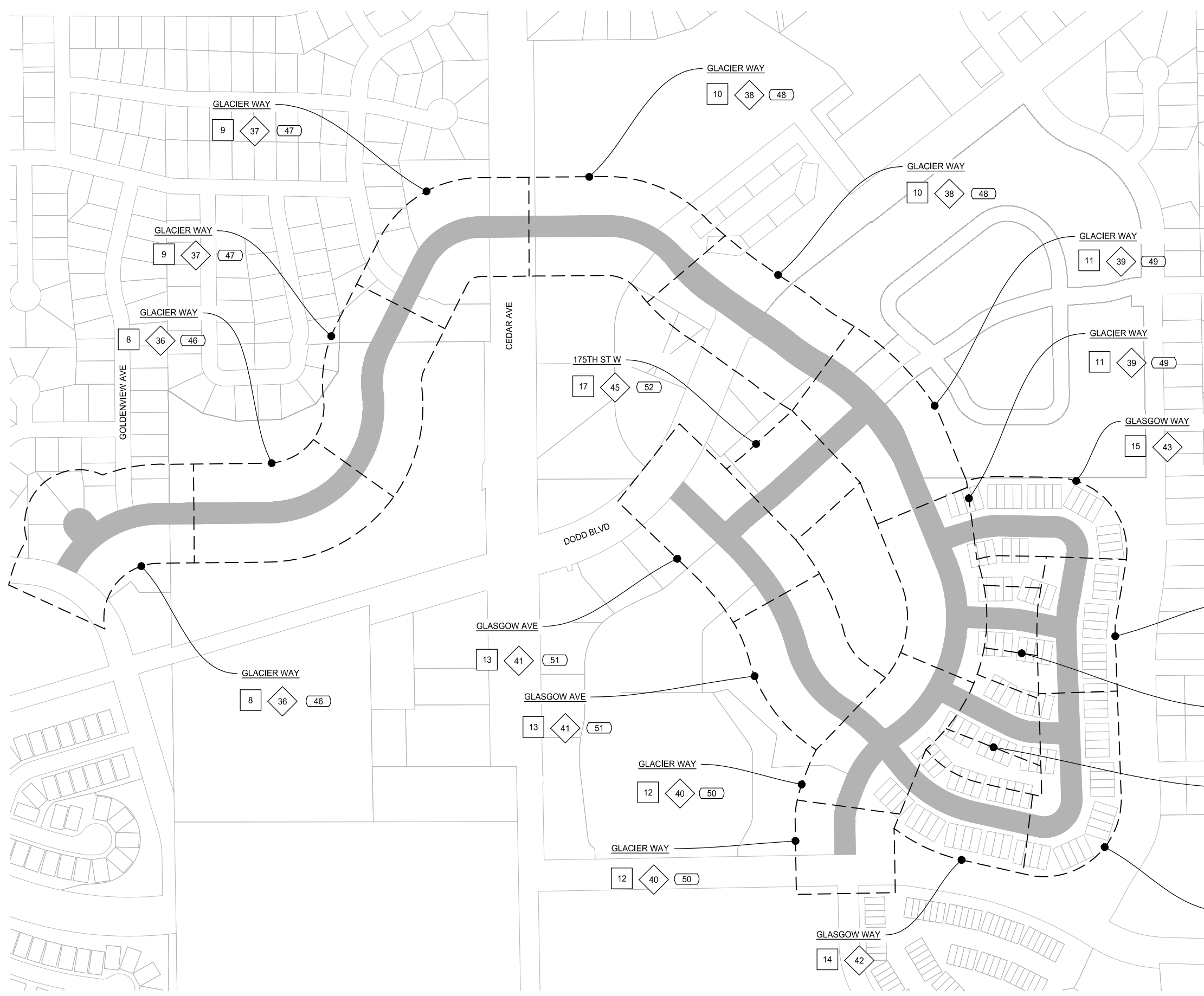


PLAN REVISIONS		
DATE	SHEET NO.	APPROVED BY

WSB PROJ. NO. 026423-000

SHEET
1
OF
61

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LEGEND

SHEET NO.	DESCRIPTION
X	STREET IMPROVEMENT PLAN
◇	EROSION CONTROL PLAN
○	SIGNING & STRIPING PLAN

- GLACIER WAY
- GLASGOW AVE
- GLASGOW WAY
- 177TH ST W
- 178TH ST W
- 175TH ST W



SCALE: AS SHOWN
 PLAN BY: EKM
 DESIGN BY: EKM
 CHECK BY: JAO

REVISIONS	
NO.	DATE

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.

JEFFREY A. OLIVER
 DATE: 02-03-2025 LIC. NO.: 23110

GENERAL LAYOUT

**2025 STREET REHABILITATION PROJECT
 CITY OF LAKEVILLE**

CLIENT PROJECT NO.
25-02

WSB PROJECT NO.
026423-000

SHEET
2 OF 61

STATEMENT OF ESTIMATED QUANTITIES

NOTES	ITEM NO.	MNDOT SPECIFICATION NO.	DESCRIPTION	UNIT	ESTIMATED QUANTITY
E. Street Improvements					
	1	2021.501	MOBILIZATION	LS	1
1	2	2101.502	CLEARING	EACH	2
1	3	2101.502	GRUBBING	EACH	2
	4	2104.502	SALVAGE MAIL BOX SUPPORT	EACH	18
1	5	2104.502	SALVAGE SIGN	EACH	5
	6	2104.503	REMOVE CURB & GUTTER	L F	3874
9	7	2104.503	SAWING BIT PAVEMENT (FULL DEPTH)	L F	619
9	8	2104.503	SAWING CONCRETE PAVEMENT (FULL DEPTH)	L F	327
9	9	2104.504	REMOVE BITUMINOUS DRIVEWAY PAVEMENT	S Y	215
10	10	2104.504	REMOVE BITUMINOUS PAVEMENT	S Y	49
9	11	2104.504	REMOVE CONCRETE DRIVEWAY PAVEMENT	S Y	181
	12	2104.518	REMOVE CONCRETE WALK	S F	24075
	13	2104.601	SALVAGE AND REINSTALL LANDSCAPE STRUCTURES	LS	1
2,8	14	2106.507	EXCAVATION - SUBGRADE	C Y	394
2,8	15	2106.507	STABILIZING AGGREGATE (CV)	C Y	394
9	16	2106.509	STABILIZING AGGREGATE	TON	104
2	17	2112.519	SUBGRADE PREPARATION	RDST	119
	18	2123.610	STREET SWEEPER (WITH PICKUP BROOM)	HOURL	50
	19	2130.523	WATER	MGAL	237
1	20	2211.509	AGGREGATE BASE (CV) CLASS 5	CY	20
6	21	2231.609	BITUMINOUS PATCH SPECIAL	TON	422
1	22	2232.604	MILL BITUMINOUS SURFACE (FULL DEPTH)	S Y	2134
	23	2232.504	MILL BITUMINOUS SURFACE (VARIABLE DEPTH)	S Y	47233
3,6	24	2360.504	TYPE SP 9.5 WEAR CRS MIX(2,B)3.0" THICK	S Y	847
6	25	2360.509	TYPE SP 9.5 WEARING COURSE MIX (3,B)	TON	5605
	26	2504.602	IRRIGATION SYSTEM REPAIR	EACH	5
3	27	2521.518	5" CONCRETE WALK	S F	11970
3	28	2521.518	6" CONCRETE WALK	S F	6418
	29	2531.503	CONCRETE CURB & GUTTER DESIGN B618	L F	3338
	30	2531.503	CONCRETE CURB & GUTTER DESIGN D412	L F	342
3,9	31	2531.504	7" CONCRETE DRIVEWAY PAVEMENT SPECIAL	S Y	181
	32	2531.601	ADA COMPLIANCE SUPERVISOR	LS	1
	33	2531.618	TRUNCATED DOMES	S F	1067
	34	2540.602	MAIL BOX	EACH	18
	35	2540.602	MAIL BOX SUPPORT	EACH	18
	36	2540.602	TEMPORARY MAIL BOX	EACH	175
	37	2557.602	REPAIR DOG FENCE	EACH	5
	38	2563.601	TRAFFIC CONTROL	LS	1
	39	2573.501	STABILIZED CONSTRUCTION EXIT	LS	1
11	40	2575.504	ROLLED EROSION PREVENTION CATEGORY 25	S Y	2705
	41	2575.523	WATER	MGAL	51
7	42	2575.604	PERMANENT TURF ESTABLISHMENT	S Y	2255
7	43	2575.604	TEMPORARY STABILIZATION	S Y	2255
	44	2582.503	4" BROKEN LINE PAINT	LF	803
	45	2582.503	4" DBLE SOLID LINE PAINT	L F	5000
	46	2582.503	4" SOLID LINE PAINT	L F	3152
	47	2582.503	6" SOLID LINE PAINT	L F	2030
	48	2582.503	24" SOLID LINE PAINT	L F	175
	49	2582.518	PAVT MSSG PAINT	S F	515

STATEMENT OF ESTIMATED QUANTITIES

NOTES	ITEM NO.	MNDOT SPECIFICATION NO.	DESCRIPTION	UNIT	ESTIMATED QUANTITY
F. Storm Sewer Improvements					
	50	2021.501	MOBILIZATION	LS	1
1	51	2101.502	CLEARING	EACH	1
1	52	2101.502	GRUBBING	EACH	1
	53	2104.502	REMOVE CASTING	EACH	9
	54	2104.502	REMOVE DRAINAGE STRUCTURE	EACH	3
	55	2104.503	REMOVE SEWER PIPE (STORM)	L F	66
	56	2503.503	12" RC PIPE SEWER CLASS V	L F	10
	57	2503.503	15" RC PIPE SEWER CLASS V	L F	60
	58	2503.503	21" RC PIPE SEWER CLASS III	L F	56
	59	2506.502	ADJUST FRAME & RING CASTING	EACH	60
	60	2506.502	CASTING ASSEMBLY	EACH	14
	61	2506.503	CONST DRAINAGE STRUCTURE DES 48-4020	L F	9
	62	2506.503	CONST DRAINAGE STRUCTURE DES 60-4020	L F	4
1	63	2506.602	6" TOP SLAB FOR 48-4020 STRUCTURE	EACH	5
	64	2506.602	CHIMNEY SEAL	EACH	4
	65	2506.602	CONST DRAINAGE STRUCTURE DESIGN SPEC (2'X3')	EACH	3
	66	2506.602	FILL STRUCTURE SUMP	EACH	11
	67	2506.602	GROUT CATCH BASIN OR MANHOLE	EACH	91
	68	2573.502	STORM DRAIN INLET PROTECTION	EACH	98
G. Sanitary Sewer Improvements					
	69	2021.501	MOBILIZATION	LS	1
1	70	2104.502	REMOVE CASTING	EACH	2
	71	2506.502	ADJUST FRAME & RING CASTING	EACH	33
1	72	2506.502	CASTING ASSEMBLY	EACH	2
	73	2506.602	CHIMNEY SEAL	EACH	33
H. Watermain Improvements					
	74	2021.501	MOBILIZATION	LS	1
1	75	2106.610	EXPLORATORY EXCAVATION	HOURL	5
1,4	76	2451.507	GRANULAR BEDDING	C Y	10
	77	2504.602	ADJUST VALVE BOX	EACH	23
1	78	2504.602	VALVE BOX SECTION	EACH	12

NOTES

- TOKEN QUANTITY TO BE USED AS DIRECTED BY THE ENGINEER.
- TO BE USED FOR SUBGRADE CORRECTION AS DIRECTED BY THE ENGINEER.
- 6 INCHES OF AGGREGATE BASE CLASS 5 IS INCIDENTAL TO DRIVEWAY AND TRAIL ITEMS. 4 INCHES OF SELECT GRANULAR IS INCIDENTAL TO WALK ITEMS.
- TO BE USED AS PIPE FOUNDATION BEDDING AS DIRECTED BY THE ENGINEER.
- TO BE USED FOR OUST CONTROL.
- UNIT WEIGHT OF BITUMINOUS: 113 LB/SY-IN
- SECO MIX FERTILIZER, SOIL AMENOMENTS, ANO TOPSOIL ARE INCIDENTAL TO RESTORATION ITEMS PER SPECIFICATIONS.
- TOKEN QUANTITY HAS BEEN ESTIMATEO, ASSUMING 5% OF THE SURFACE AREA OF THE ROADWAY ANO ASSUMING 6" IS NECESSARY TO EXCAVATE FROM BOTTOM OF EXISTING AGGREGATE LAYER.
- ESTIMATEO QUANTITY BASEO ON EXPECTEO DRIVEWAY IMPACTS.
- TO BE USED FOR STORM SEWER CROSSING WORK.
- SEE PAGE 53 FOR OETAIL OF EROSION CONTROL BLANKET. AOOTIONAL 6" OF ROLLEO BLANKET FOR PERIMETER CONTROL IS ACCOUNTEO FOR IN THE UNIT QUANTITY ANO WILL BE PAIO AS SUCH.
- UNOERSEAL BIO ALTERNATE IS ONLY FOR GLACIER WAY, GLASGOW AVENUE, ANO 175TH STREET W.

REVISIONS

NO.	DATE	DESCRIPTION
1	2/19/2025	ADDENDUM #1

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.

JEFFREY A. OLIVER
DATE: 02-03-2025 LIC. NO.: 23110

STATEMENT OF ESTIMATED QUANTITIES

NOTES	ITEM NO.	MNDOT SPECIFICATION NO.	DESCRIPTION	UNIT	ESTIMATED QUANTITY	
Bid Alternate 2. Bituminous Seal Coat						
	12	79	2356.504	BITUMINOUS SEAL COAT	S Y	36930

2025 STREET REHABILITATION PROJECT
CITY OF LAKEVILLE

CLIENT PROJECT NO. 25-02

WSB PROJECT NO. 026423-000

SHEET R3 OF 61


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SCALE: AS SHOWN
 PLAN BY: EKM
 DESIGN BY: EKM
 CHECK BY: JAO

NO.	DATE	DESCRIPTION

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 JEFFREY A. OLIVER
 DATE: 02-03-2025 LIC. NO.: 23110

TABULATIONS

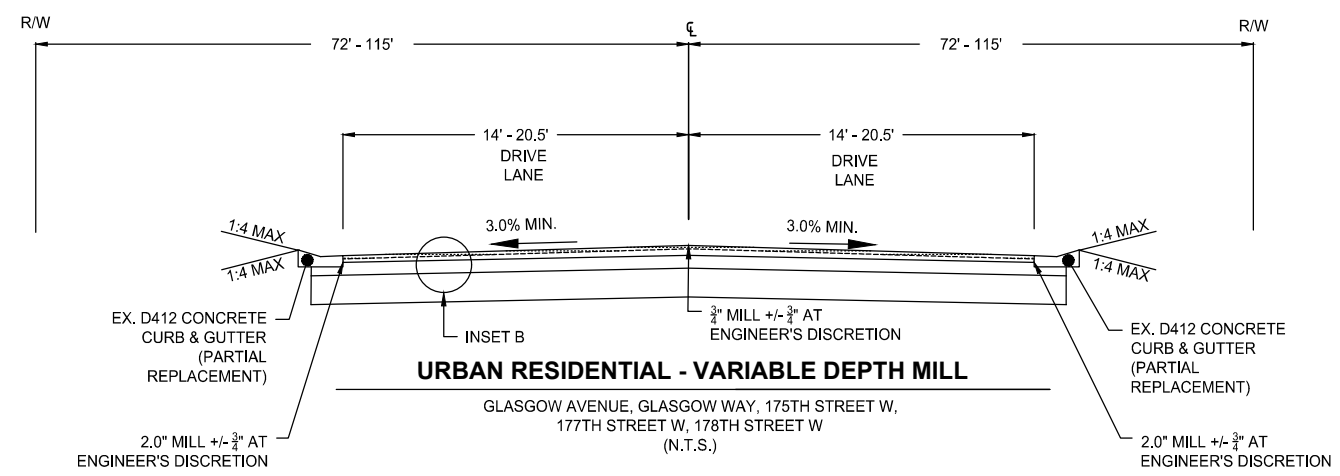
2025 STREET REHABILITATION PROJECT
 CITY OF LAKEVILLE

CLIENT PROJECT NO.
 25-02

WSB PROJECT NO.
 026423-000

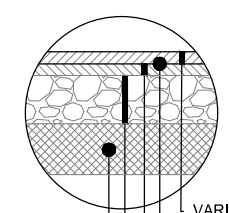
SHEET
 4 OF 61

SANITARY TABULATION							
STREET NAME	MANHOLE NUMBER	EXISTING TOP OF CASTING	(2) ADJUST SANITARY CASTING AND INSTALL CHIMNEY SEAL (EACH)	INTERIOR CONCRETE WORK (EACH)	(4) RECONSTRUCT DRAINAGE STRUCTURE (LF)	EXISTING ADJUSTING RING HEIGHT	NOTES
GLACIER AVE	53BM007	1030.52					REPLACE CASTING AND INSTALL CHIMNEY SEAL
GLACIER AVE	53BM008	1031.86	1				
GLACIER AVE	61BM111	1030.86	1				
GLACIER AVE	61BM112	1028.33	1				
GLACIER AVE	61BM113	1023.92	1				
GLACIER AVE	61BM114	1024.70	1				
GLACIER AVE	61BM094	1021.36	1				
GLACIER AVE	61BM093	1014.72	1				
GLACIER AVE	61BM092	1007.09	1				
GLACIER AVE	62AM036		1				
GLACIER AVE	62AM037		1				
GLASGOW WAY	54AM046	990.42	1				
GLASGOW WAY	54AM045	988.11	1				
GLASGOW WAY	54AM044	985.77	1				
GLASGOW WAY	54AM043	981.27	1				
GLASGOW WAY	54AM0186569	976.68	1				
GLASGOW WAY	54AM017	977.23	1				
GLASGOW WAY	54AM0166570	975.98	1				
GLASGOW WAY	54AM015	977.54	1				
GLASGOW WAY	54AM0146567	979.25	1				
GLASGOW WAY	54AM0136566	981.13	1				
GLASGOW WAY	54AM0126563	984.28	1				
GLASGOW WAY	54AM011	984.30	1				
GLASGOW WAY	54AM0106562	985.41	1				
GLASGOW WAY	54AM0096561	986.54	1				
GLASGOW WAY	54AM0086560	987.84	1				
GLASGOW WAY	54AM0076559	993.35	1				
GLASGOW WAY	54AM0066603	996.57	1				
177TH ST W	54AM0196565	994.78	1				
177TH ST W	54AM0206564	990.13	1				
178TH ST W	54AM042	993.53	1				
178TH ST W	54AM0416568	985.91	1				
175TH ST W	54AM001	1010.05	1				
175TH ST W	62AM103	1009.78	1				
TOTALS			33	0	0.00	-	-



URBAN RESIDENTIAL - VARIABLE DEPTH MILL

GLASGOW AVENUE, GLASGOW WAY, 175TH STREET W,
 177TH STREET W, 178TH STREET W
 (N.T.S.)

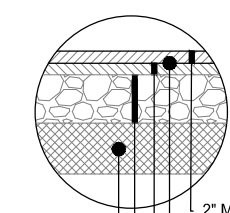


INSET A

VARIABLE DEPTH
 MILL AND OVERLAY SECTION

- VARIABLE MILL / 2.0" TYPE SP 9.5 WEARING COURSE MIX (3,B) (SPWEA340B)
- 2357 BITUMINOUS TACK COAT ON MILLED SURFACE (INCIDENTAL)
- EXISTING BITUMINOUS PAVEMENT
- EXISTING AGGREGATE BASE
- EXISTING SUBGRADE

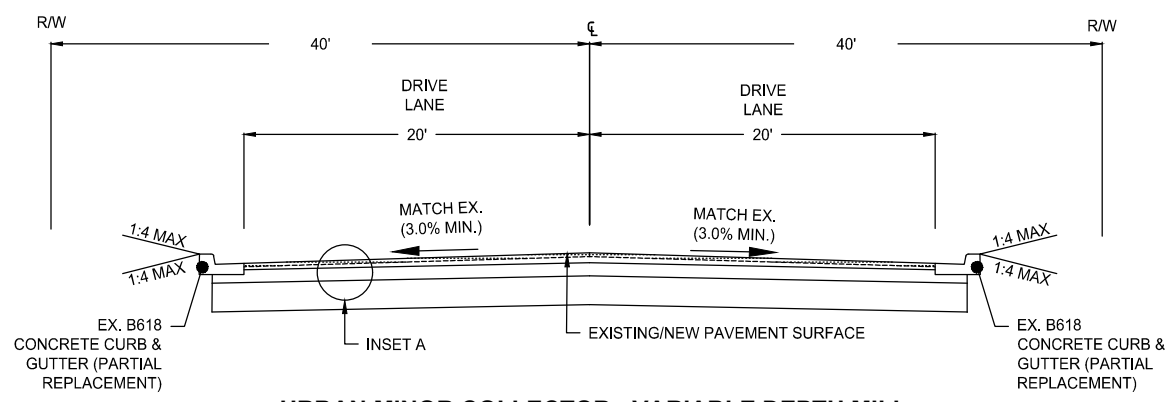
THE ENGINEER MAY ALSO REQUEST VARIABLE DEPTH MILLING FOR AREAS NOT IDENTIFIED IN THE PLANS.



INSET B

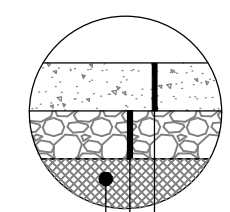
BID ALTERNATE 2: MILL AND
 OVERLAY SECTION WITH
 BITUMINOUS SEAL COAT

- 2" MILL / 2.0" TYPE SP 9.5 WEARING COURSE MIX (3,B) (SPWEA340B)
- 2356 BITUMINOUS SEAL COAT (TEXAS UNDERSEAL) (BID ALTERNATE 1)
- EXISTING BITUMINOUS PAVEMENT
- EXISTING AGGREGATE BASE
- EXISTING SUBGRADE



URBAN MINOR COLLECTOR - VARIABLE DEPTH MILL

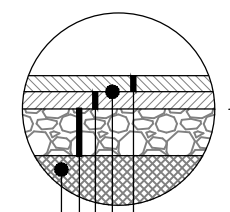
GLACIER WAY
 (N.T.S.)



DETAIL

CONCRETE DRIVEWAY & APRON SECTION
 (CITY STD. PLATE NO. LV-ST-3 & LV-ST-4)

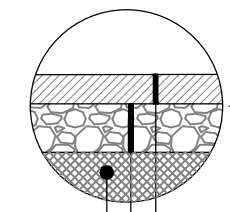
- 7" CONCRETE (MNDOT 3F52)
- 6" AGGREGATE BASE CLASS 5 MODIFIED (100% CRUSHED LIMESTONE; INCIDENTAL)
- APPROVED SUBGRADE (INCIDENTAL)



DETAIL

BITUMINOUS DRIVEWAY SECTION

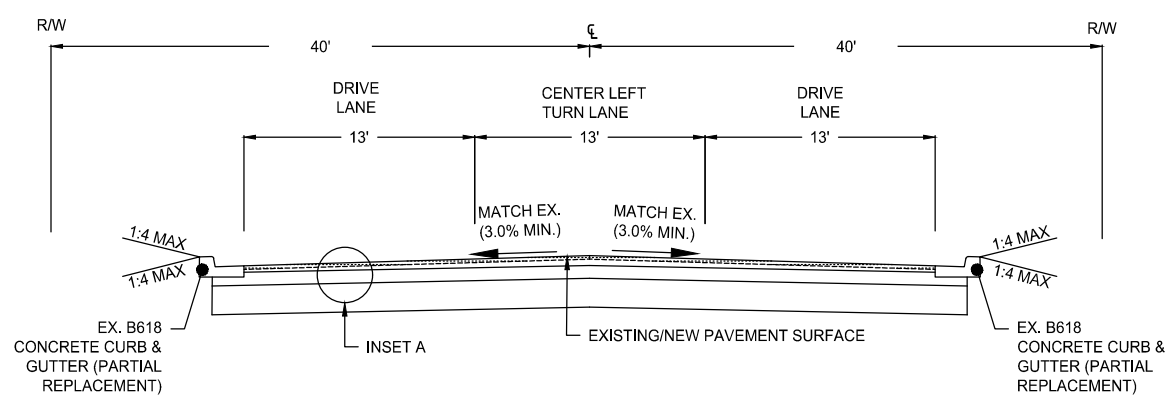
- 1.5" TYPE SP 9.5 WEARING COURSE MIX (2,B) (SPWEA240B)
- 2357 BITUMINOUS TACK COAT (INCIDENTAL)
- 1.5" TYPE SP 9.5 WEARING COURSE MIX (2,B) (SPWEA240B)
- 6" AGGREGATE BASE CLASS 5 MODIFIED (100% CRUSHED LIMESTONE; INCIDENTAL)
- APPROVED SUBGRADE (INCIDENTAL)



DETAIL

BITUMINOUS TRAIL
 (CITY STD. PLATE NO. LV-ST-10)

- 3" TYPE SP 9.5 SPWEA240B WEAR COURSE
- 6" CL 5 AGGREGATE BASE (100% CRUSHED LIMESTONE; INCIDENTAL)
- APPROVED SUBGRADE (INCIDENTAL)



URBAN MINOR COLLECTOR - VARIABLE DEPTH MILL

GLACIER WAY STA 134+43.63 TO 146+15.15,
 175TH STREET STA 234+00.00 TO 236+50.00
 (N.T.S.)

NO.	DATE	DESCRIPTION

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JEFFREY A. OLIVER
 DATE: 02-03-2025 LIC. NO.: 23110

TYPICAL SECTIONS

**2025 STREET REHABILITATION PROJECT
 CITY OF LAKEVILLE**

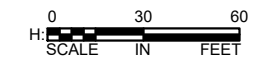
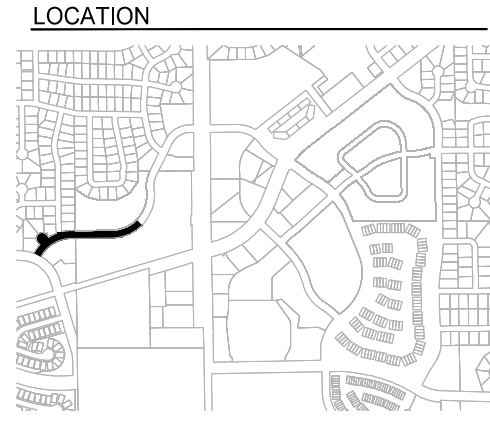
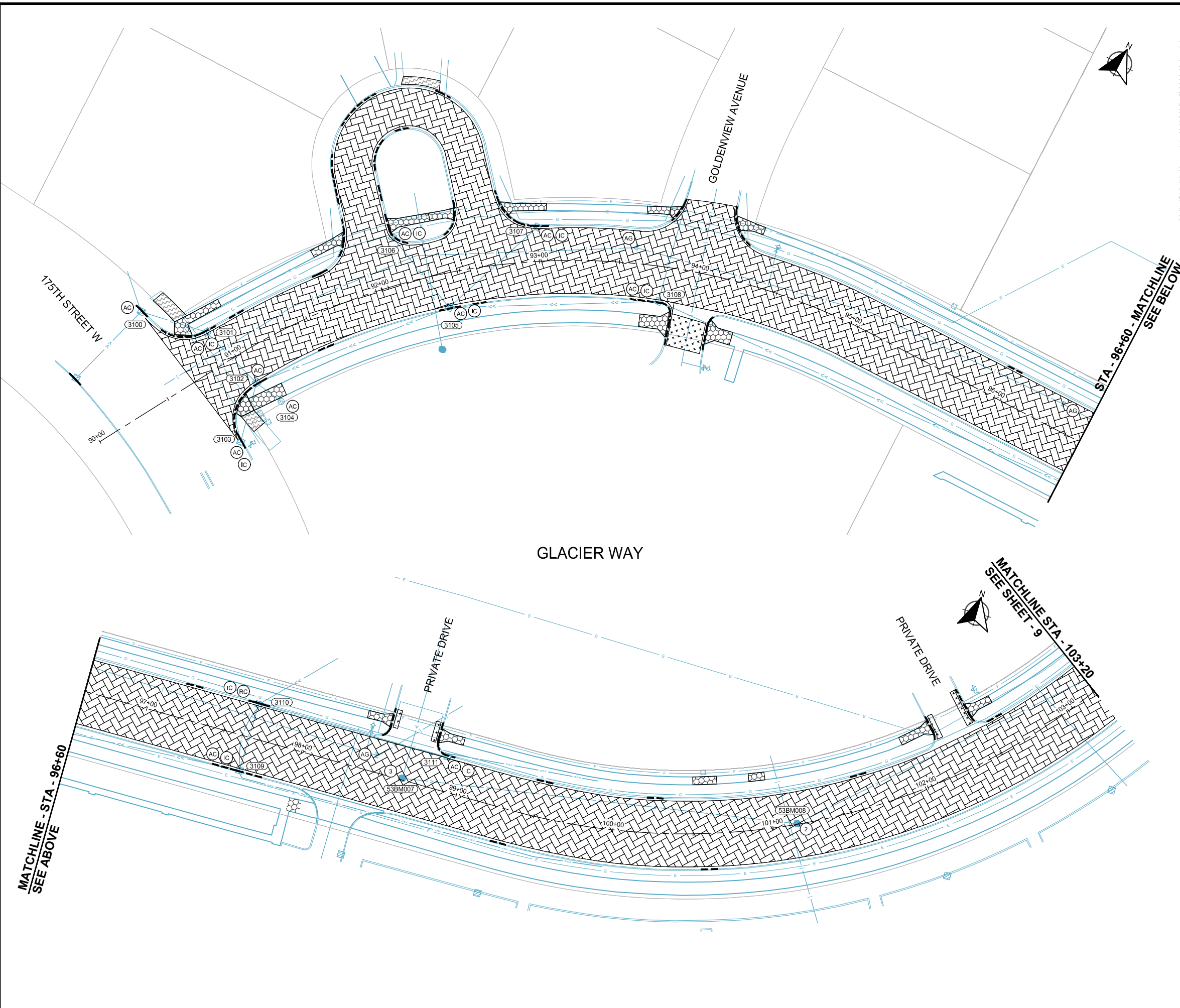
CLIENT PROJECT NO.
 25-02

WSB PROJECT NO.
 026423-000



SHEET
 7 OF 61

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- LEGEND**
- (RC) REMOVE & REPLACE CASTING
 - (FS) FILL STRUCTURE SUMP
 - (TS) REMOVE & REPLACE STRUCTURE TOP SLAB
 - (IC) INTERIOR CONCRETE WORK (RE-POUR INVERT OR RE-GROUT DOGHOUSE)
 - (AC) ADJUST CASTING
 - (AG) ADJUST GATE VALVE
 - (CG) CLEAR & GRUB TREES
 - (AB) ADD BARREL SECTION
 - (TG) REMOVE TRASH GAURD
 - (1) INSTALL SACRIFICIAL ANODE BAG (17# OR 32# AS DIRECTED BY ENGINEER)
 - (2) ADJUST SANITARY CASTING AND INSTALL CHIMNEY SEAL
 - (3) INSTALL NEW SANITARY CASTING AND CHIMNEY SEAL
 - REMOVE & REPLACE STORM SEWER STRUCTURE
 - REMOVE & REPLACE CONCRETE CURB & GUTTER
 - REMOVE AND REPLACE BITUMINOUS PAVEMENT
 - ▨ VARIABLE DEPTH MILL BITUMINOUS PAVEMENT
 - ▩ REMOVE & REPLACE BITUMINOUS DRIVEWAY AND TRAIL PAVEMENT
 - REMOVE CONCRETE WALK AND REPLACE WITH BITUMINOUS TRAIL
 - ▩▩▩ REMOVE & REPLACE CONCRETE DRIVEWAY PAVEMENT (TO FIRST JOINT)
 - ▩▩▩ REMOVE & REPLACE CONCRETE SIDEWALK (TO NEAREST JOINT)
 - ▨▨▨ CLEAR & GRUB TREES





SCALE: AS SHOWN
 PLAN BY: EKM
 EKM

DESIGN BY: EKM
 CHECK BY: JAO

NO.	DATE	DESCRIPTION

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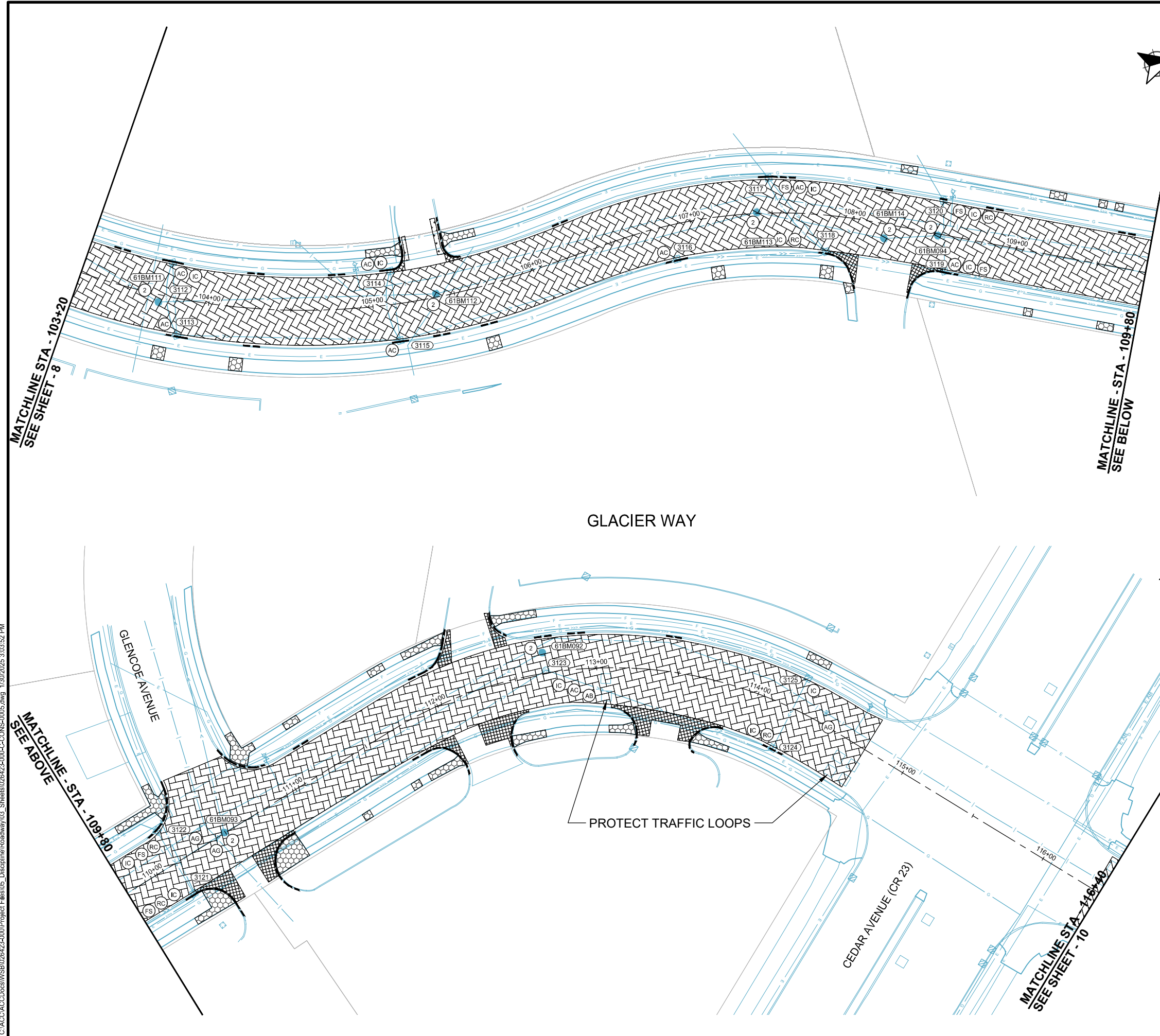

 JEFFREY A. OLIVER
 DATE: 02-03-2025 LIC. NO.: 23110

CONSTRUCTION PLANS

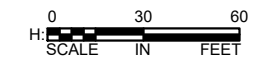
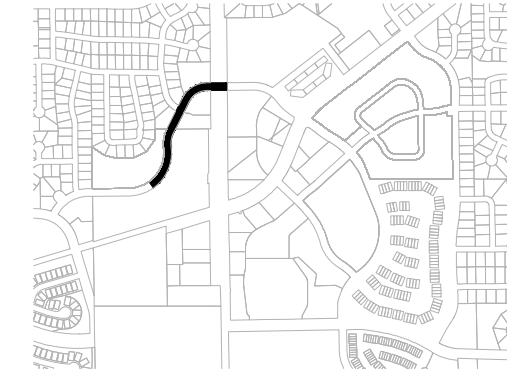
**2025 STREET REHABILITATION PROJECT
 CITY OF LAKEVILLE**

CLIENT PROJECT NO. 25-02
WSB PROJECT NO. 026423-000
SHEET 8 OF 61

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LOCATION



LEGEND

- (RC) REMOVE & REPLACE CASTING
- (FS) FILL STRUCTURE SUMP
- (TS) REMOVE & REPLACE STRUCTURE TOP SLAB
- (IC) INTERIOR CONCRETE WORK (RE-POUR INVERT OR RE-GROUT DOGHOUSE)
- (AC) ADJUST CASTING
- (AG) ADJUST GATE VALVE
- (CG) CLEAR & GRUB TREES
- (AB) ADD BARREL SECTION
- (TG) REMOVE TRASH GAURD
- (1) INSTALL SACRIFICIAL ANODE BAG (17# OR 32# AS DIRECTED BY ENGINEER)
- (2) ADJUST SANITARY CASTING AND INSTALL CHIMNEY SEAL
- (3) INSTALL NEW SANITARY CASTING AND CHIMNEY SEAL
- REMOVE & REPLACE STORM SEWER STRUCTURE
- REMOVE & REPLACE CONCRETE CURB & GUTTER
- ++++ REMOVE AND REPLACE BITUMINOUS PAVEMENT
- XXXX VARIABLE DEPTH MILL BITUMINOUS PAVEMENT
- XXXX REMOVE & REPLACE BITUMINOUS DRIVEWAY AND TRAIL PAVEMENT
- XXXX REMOVE CONCRETE WALK AND REPLACE WITH BITUMINOUS TRAIL
- XXXX REMOVE & REPLACE CONCRETE DRIVEWAY PAVEMENT (TO FIRST JOINT)
- XXXX REMOVE & REPLACE CONCRETE SIDEWALK (TO NEAREST JOINT)
- XXXX CLEAR & GRUB TREES

SCALE: AS SHOWN
PLAN BY: EKM
EKM

DESIGN BY: EKM
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CONSTRUCTION PLANS

2025 STREET REHABILITATION PROJECT
CITY OF LAKEVILLE

CLIENT PROJECT NO. 25-02
WSB PROJECT NO. 026423-000
SHEET 9 OF 61

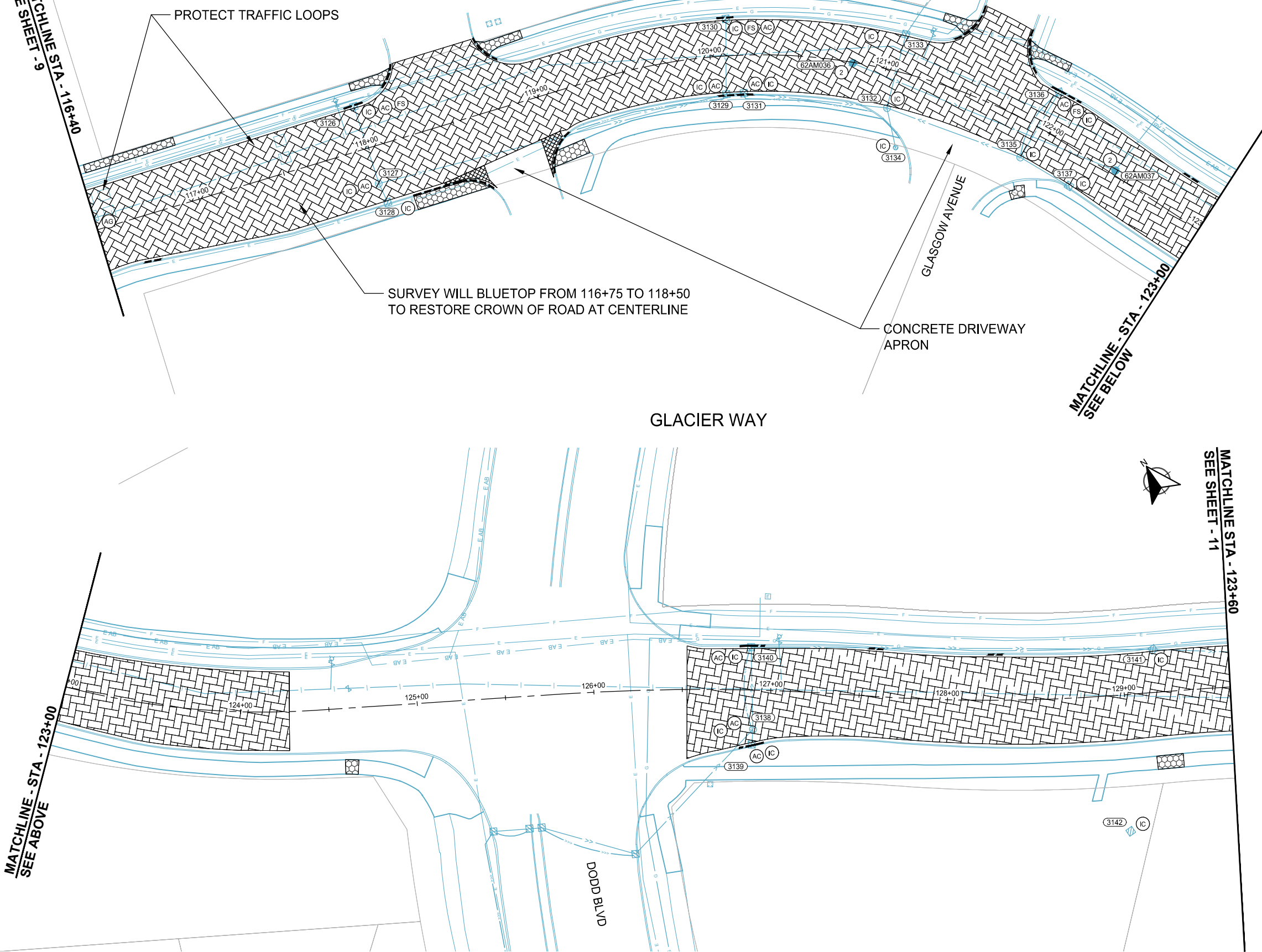
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MATCHLINE STA - 119+40
SEE SHEET - 9

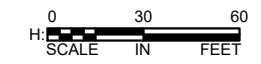
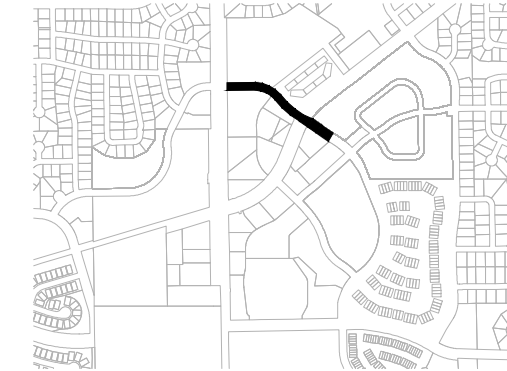
MATCHLINE - STA - 123+00
SEE ABOVE

MATCHLINE STA - 123+60
SEE SHEET - 11

MATCHLINE - STA - 123+00
SEE BELOW



LOCATION



LEGEND

- (RC) REMOVE & REPLACE CASTING
- (FS) FILL STRUCTURE SUMP
- (TS) REMOVE & REPLACE STRUCTURE TOP SLAB
- (IC) INTERIOR CONCRETE WORK (RE-POUR INVERT OR RE-GROUT DOGHOUSE)
- (AC) ADJUST CASTING
- (AG) ADJUST GATE VALVE
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- (AB) ADD BARREL SECTION
- (TG) REMOVE TRASH GAURD
- (1) INSTALL SACRIFICIAL ANODE BAG (17# OR 32# AS DIRECTED BY ENGINEER)
- (2) ADJUST SANITARY CASTING AND INSTALL CHIMNEY SEAL
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- (S) REMOVE & REPLACE STORM SEWER STRUCTURE
- (---) REMOVE & REPLACE CONCRETE CURB & GUTTER
- (+ + +) REMOVE AND REPLACE BITUMINOUS PAVEMENT
- (X X X) VARIABLE DEPTH MILL BITUMINOUS PAVEMENT
- (H H H) REMOVE & REPLACE BITUMINOUS DRIVEWAY AND TRAIL PAVEMENT
- (O O O) REMOVE CONCRETE WALK AND REPLACE WITH BITUMINOUS TRAIL
- (D D D) REMOVE & REPLACE CONCRETE DRIVEWAY PAVEMENT (TO FIRST JOINT)
- (S S S) REMOVE & REPLACE CONCRETE SIDEWALK (TO NEAREST JOINT)
- (X X X) CLEAR & GRUB TREES



SCALE: AS SHOWN
PLAN BY: EKM
EKM

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CHECK BY: JAO

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Jeffrey A. Oliver
JEFFREY A. OLIVER
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CONSTRUCTION PLANS

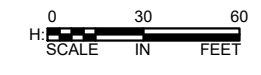
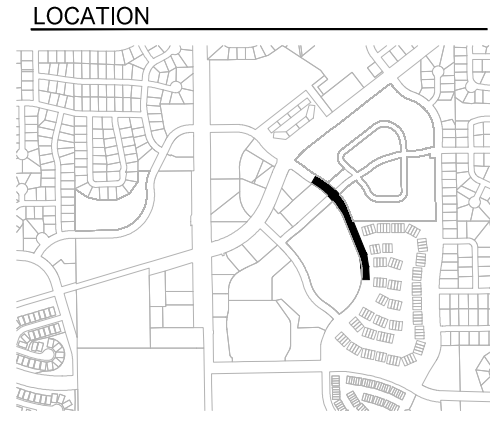
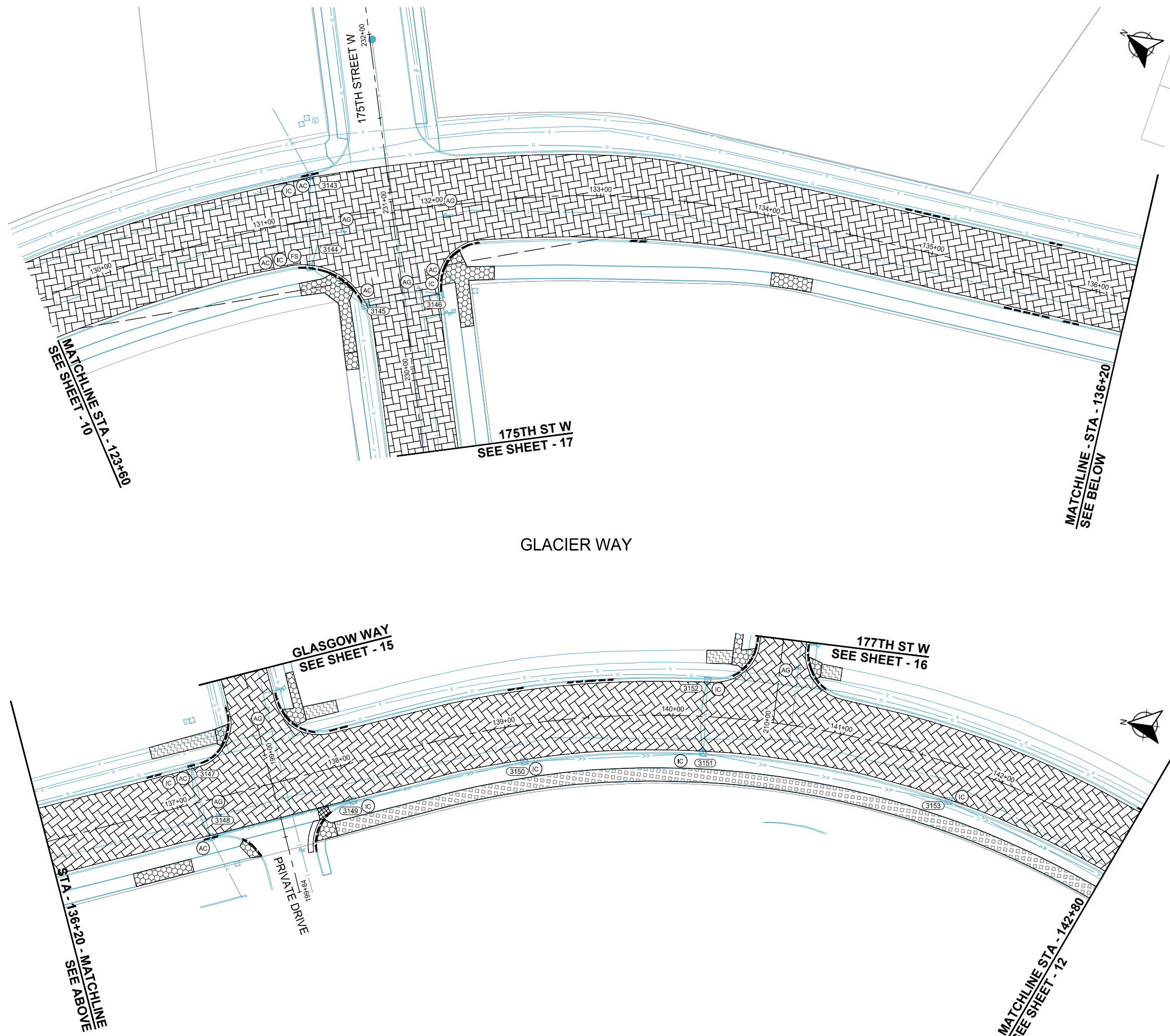
2025 STREET REHABILITATION PROJECT
CITY OF LAKEVILLE

CLIENT PROJECT NO.
25-02

WSB PROJECT NO.
026423-000

SHEET
10 OF 61

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LEGEND

- (RC) REMOVE & REPLACE CASTING
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- REMOVE AND REPLACE BITUMINOUS PAVEMENT
- VARIABLE DEPTH MILL BITUMINOUS PAVEMENT
- REMOVE & REPLACE BITUMINOUS DRIVEWAY AND TRAIL PAVEMENT
- REMOVE CONCRETE WALK AND REPLACE WITH BITUMINOUS TRAIL
- REMOVE & REPLACE CONCRETE DRIVEWAY PAVEMENT (TO FIRST JOINT)
- REMOVE & REPLACE CONCRETE SIDEWALK (TO NEAREST JOINT)
- CLEAR & GRUB TREES

MATCHLINE STA - 123+60
SEE SHEET - 10

175TH ST W
SEE SHEET - 17

MATCHLINE - STA - 136+20
SEE BELOW

GLASGOW WAY
SEE SHEET - 15

177TH ST W
SEE SHEET - 16

STA - 136+20 - MATCHLINE
SEE ABOVE

MATCHLINE STA - 142+80
SEE SHEET - 12



SCALE: AS SHOWN
PLAN BY: EKM
EKM

DESIGN BY: EKM
CHECK BY: JAO
JAO

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CONSTRUCTION PLANS

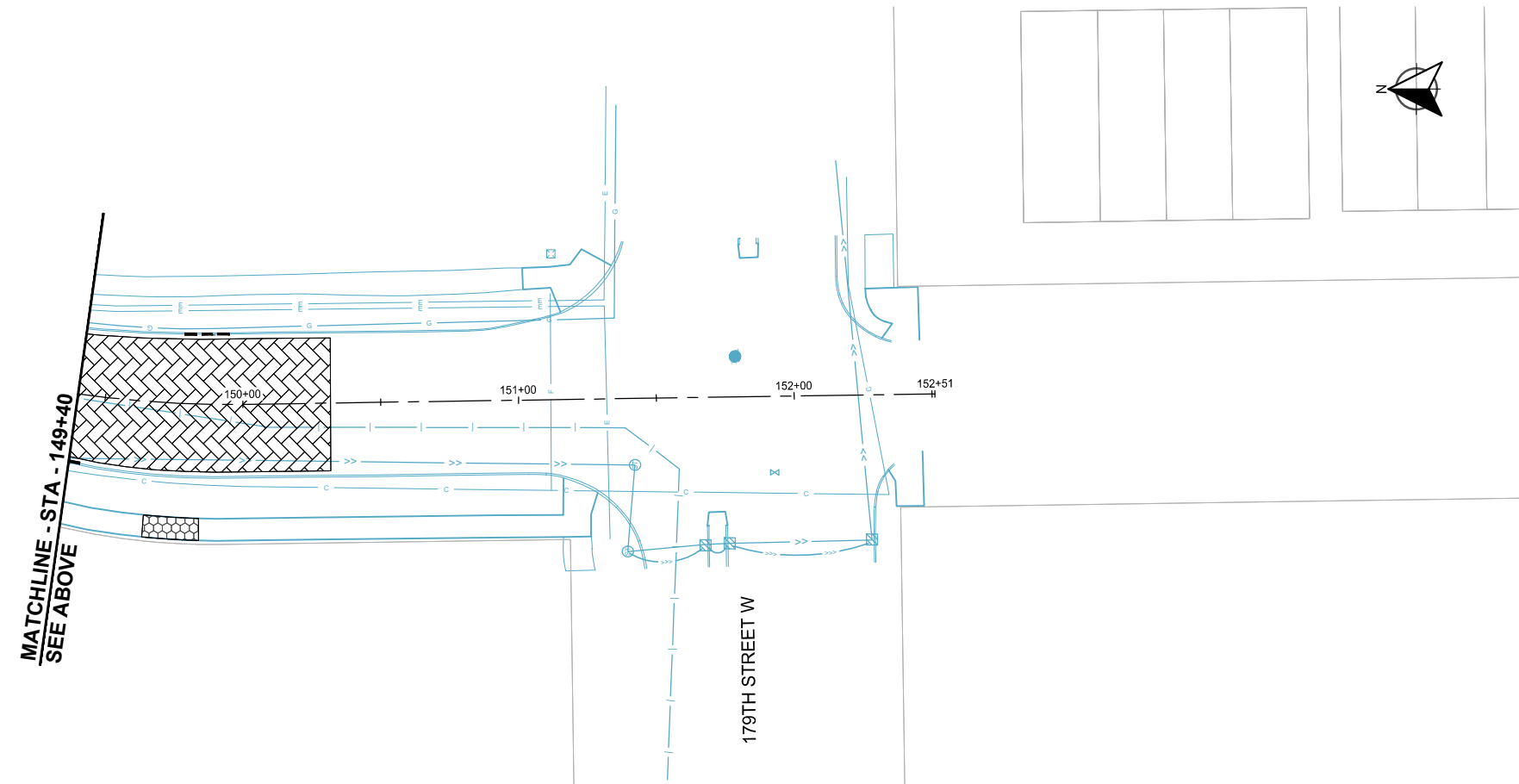
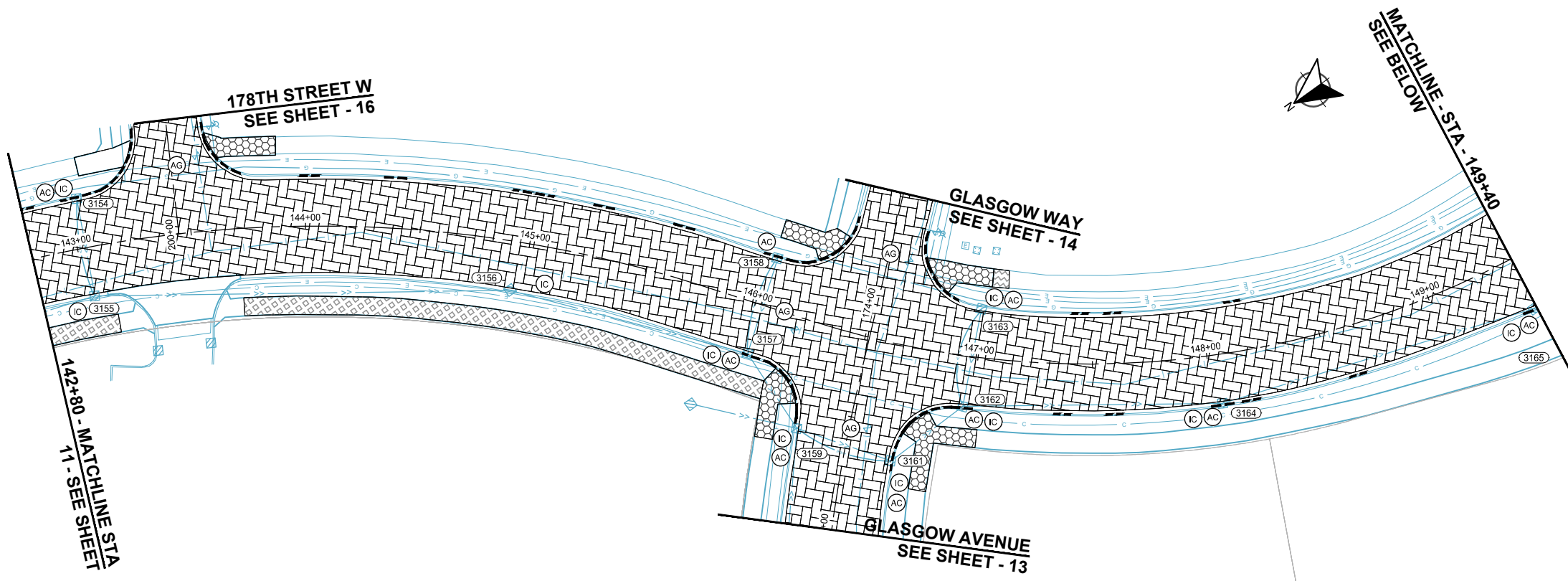
**2025 STREET REHABILITATION PROJECT
CITY OF LAKEVILLE**

CLIENT PROJECT NO.
25-02

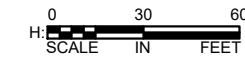
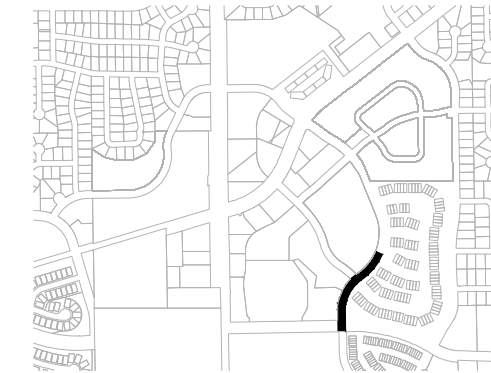
WSB PROJECT NO.
026423-000

SHEET
11 OF 61

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LOCATION



MATCHLINE - STA - 149+40
SEE BELOW

142+80 - MATCHLINE STA
11 - SEE SHEET

178TH STREET W
SEE SHEET - 16

GLASGOW WAY
SEE SHEET - 14

GLASGOW AVENUE
SEE SHEET - 13

GLACIER WAY

179TH STREET W

LEGEND

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- (▨▨▨▨) REMOVE & REPLACE CONCRETE SIDEWALK (TO NEAREST JOINT)
- (X X X) CLEAR & GRUB TREES



SCALE: AS SHOWN
PLAN BY: EKM
EKM

DESIGN BY: EKM
CHECK BY: JAO
JAO

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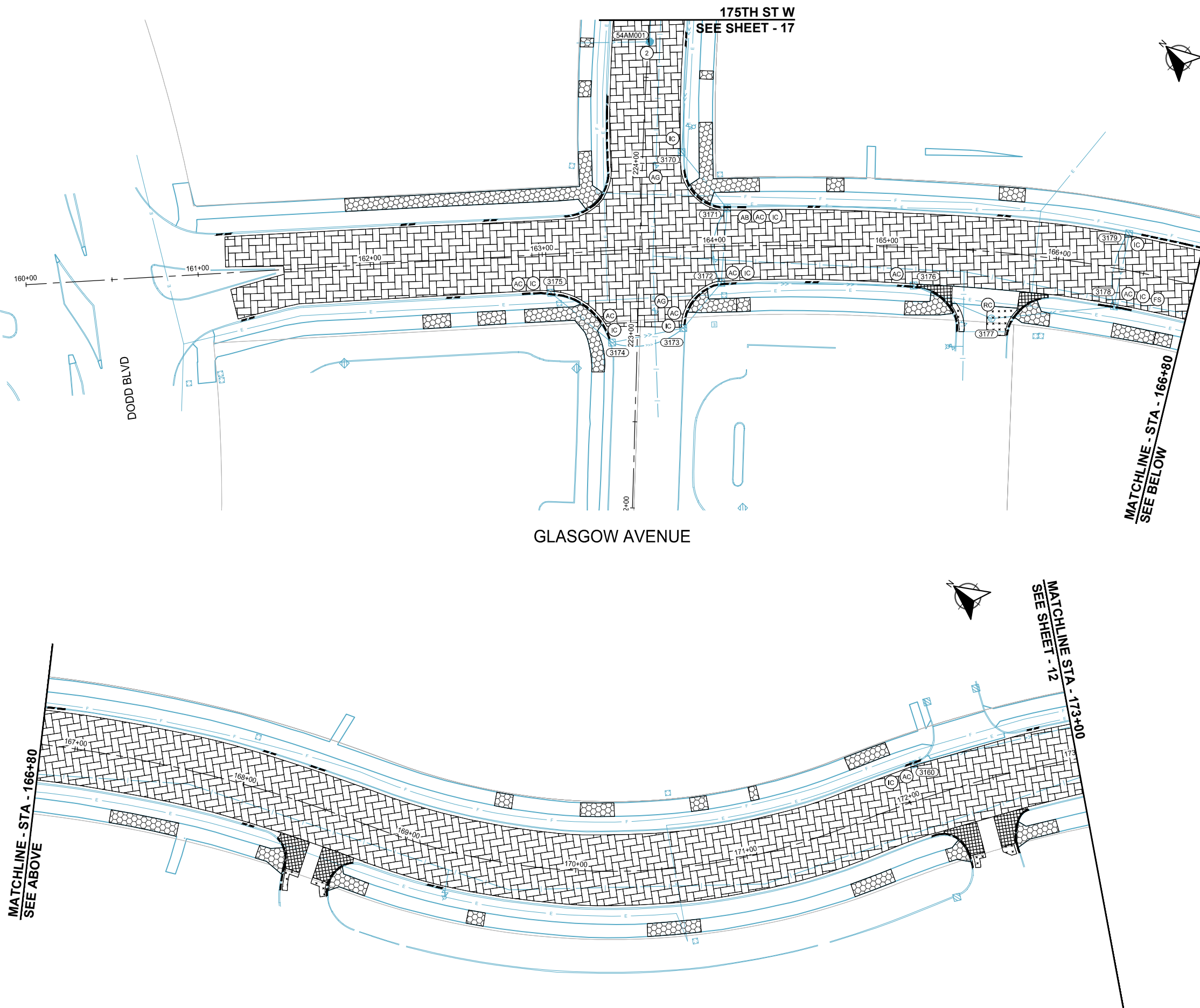
2025 STREET REHABILITATION PROJECT
CITY OF LAKEVILLE

CLIENT PROJECT NO.
25-02

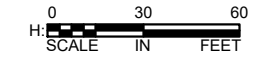
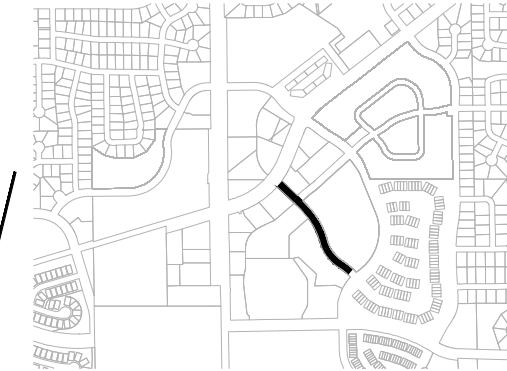
WSB PROJECT NO.
026423-000

SHEET
12 OF 61

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LOCATION



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LEGEND

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- VARIABLE DEPTH MILL BITUMINOUS PAVEMENT
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- REMOVE & REPLACE CONCRETE DRIVEWAY PAVEMENT (TO FIRST JOINT)
- REMOVE & REPLACE CONCRETE SIDEWALK (TO NEAREST JOINT)
- CLEAR & GRUB TREES

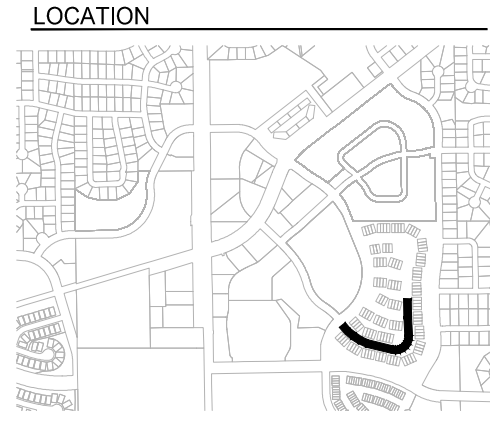
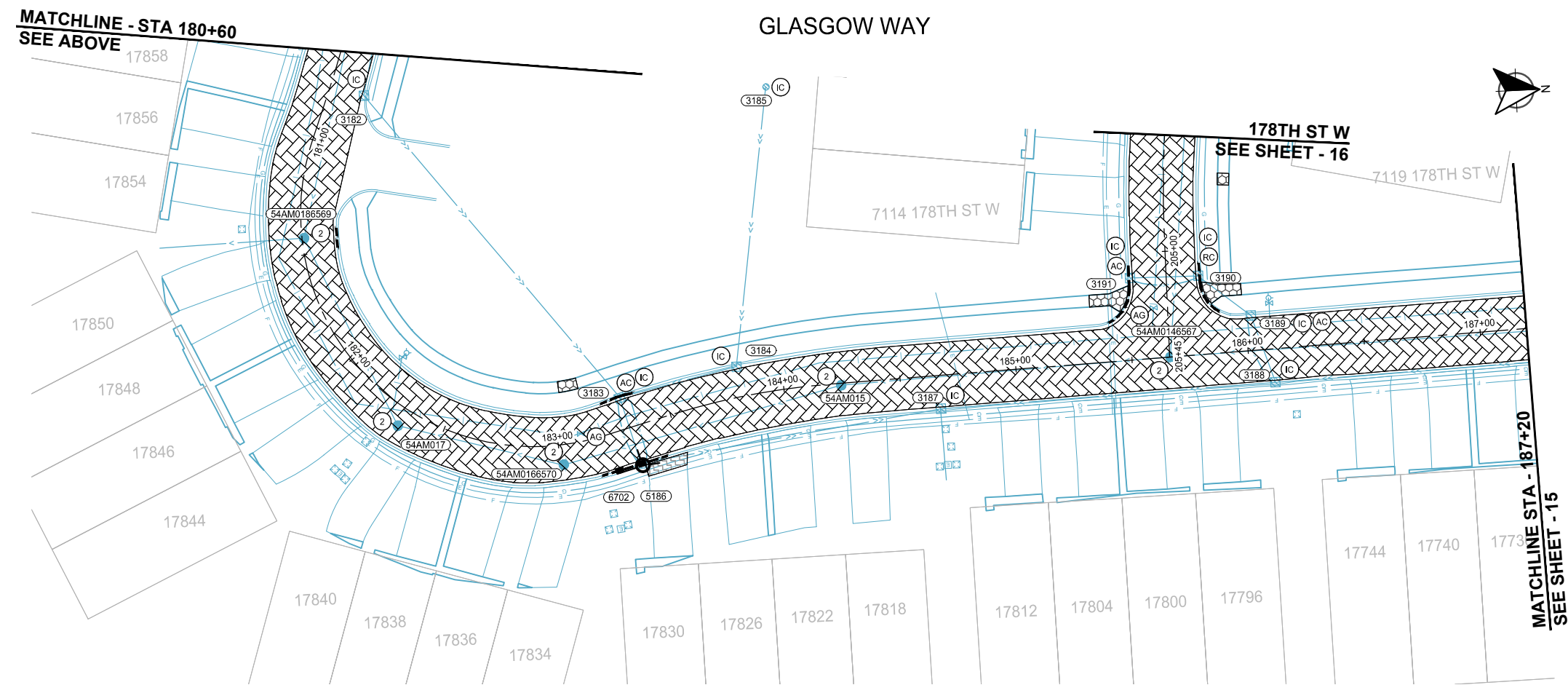
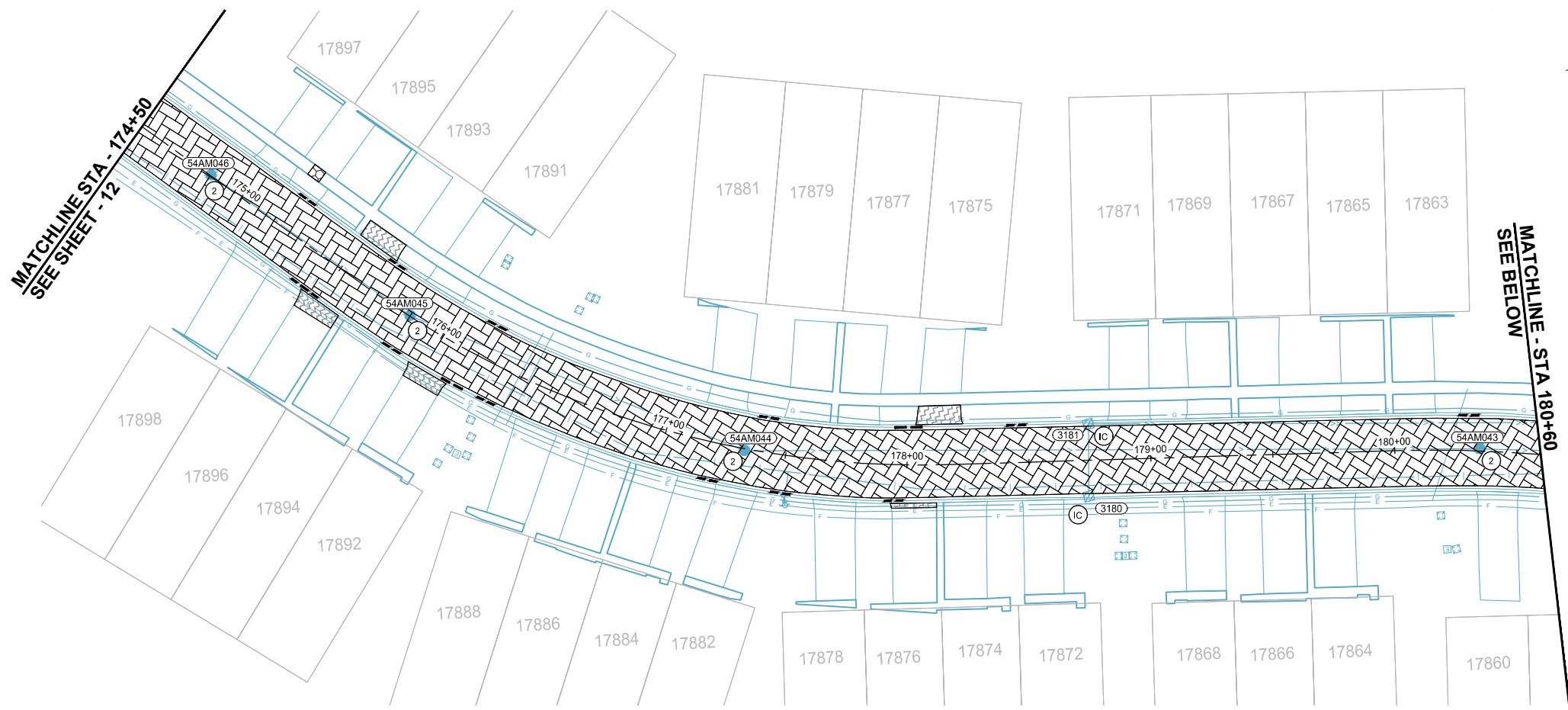
CONSTRUCTION PLANS

2025 STREET REHABILITATION PROJECT
CITY OF LAKEVILLE

CLIENT PROJECT NO. 25-02

WSB PROJECT NO. 026423-000

SHEET 13 OF 61



- LEGEND**
- (RC) REMOVE & REPLACE CASTING
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 - (---) REMOVE & REPLACE CONCRETE CURB & GUTTER
 - (*) REMOVE AND REPLACE BITUMINOUS PAVEMENT
 - (X) VARIABLE DEPTH MILL BITUMINOUS PAVEMENT
 - (Z) REMOVE & REPLACE BITUMINOUS DRIVEWAY AND TRAIL PAVEMENT
 - (O) REMOVE CONCRETE WALK AND REPLACE WITH BITUMINOUS TRAIL
 - (D) REMOVE & REPLACE CONCRETE DRIVEWAY PAVEMENT (TO FIRST JOINT)
 - (E) REMOVE & REPLACE CONCRETE SIDEWALK (TO NEAREST JOINT)
 - (V) CLEAR & GRUB TREES

wsb **Lakeville**

SCALE: AS SHOWN
 PLAN BY: EKM
 EKM

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 CHECK BY: JAO

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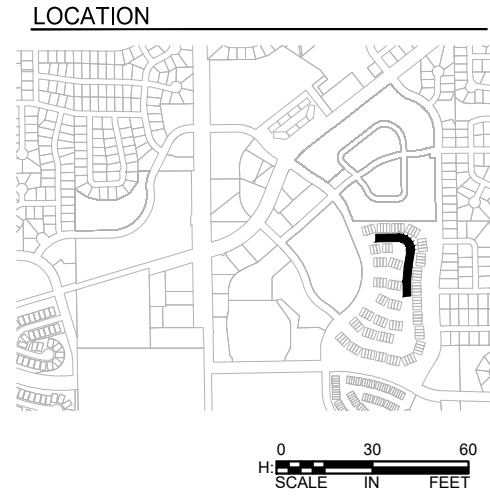
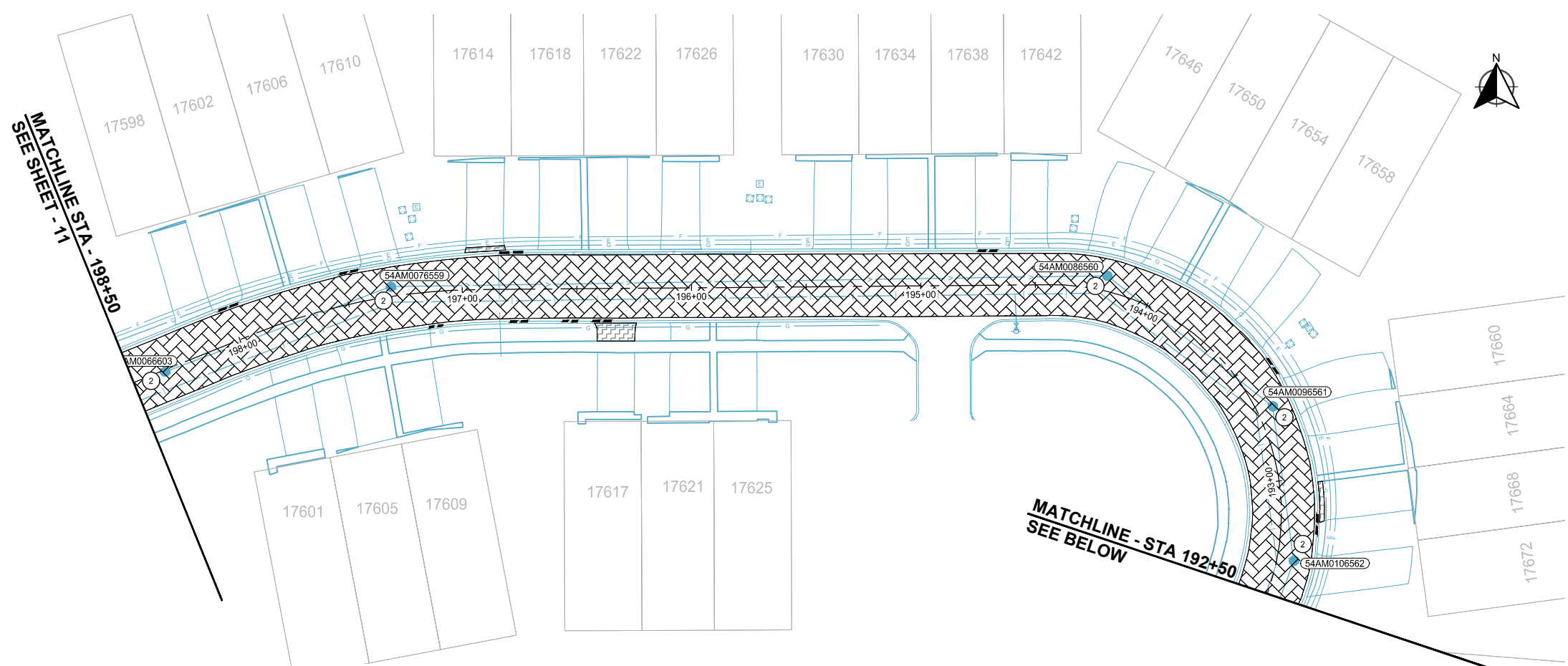
CONSTRUCTION PLANS

**2025 STREET REHABILITATION PROJECT
 CITY OF LAKEVILLE**

CLIENT PROJECT NO. 25-02
WSB PROJECT NO. 026423-000
SHEET 14 OF 61

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wsb **Lakeville**

SCALE: AS SHOWN
 PLAN BY: EKM

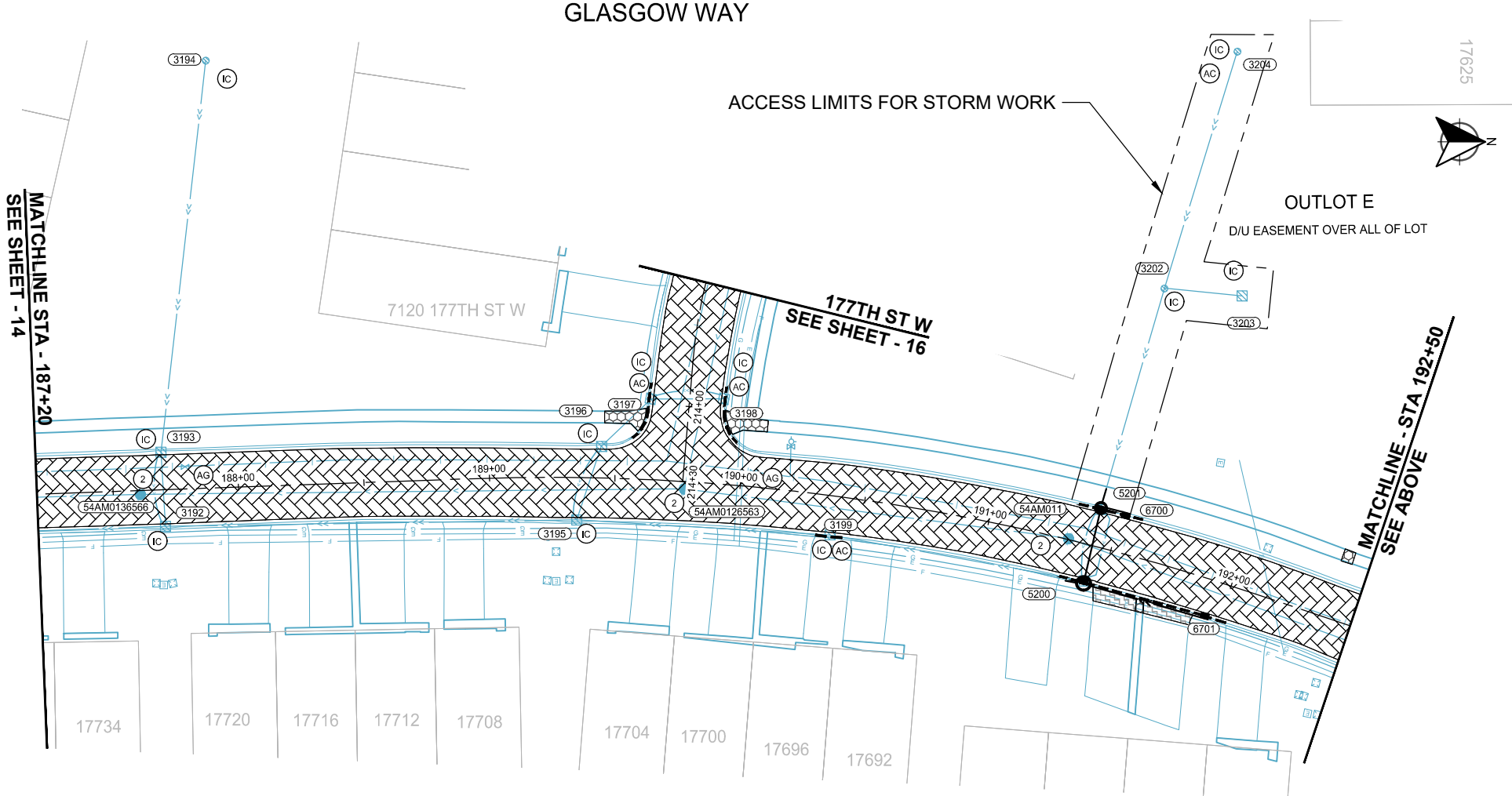
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 DATE: 02-03-2025 LIC. NO.: 23110

GLASGOW WAY



- LEGEND**
- (RC) REMOVE & REPLACE CASTING
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CONSTRUCTION PLANS

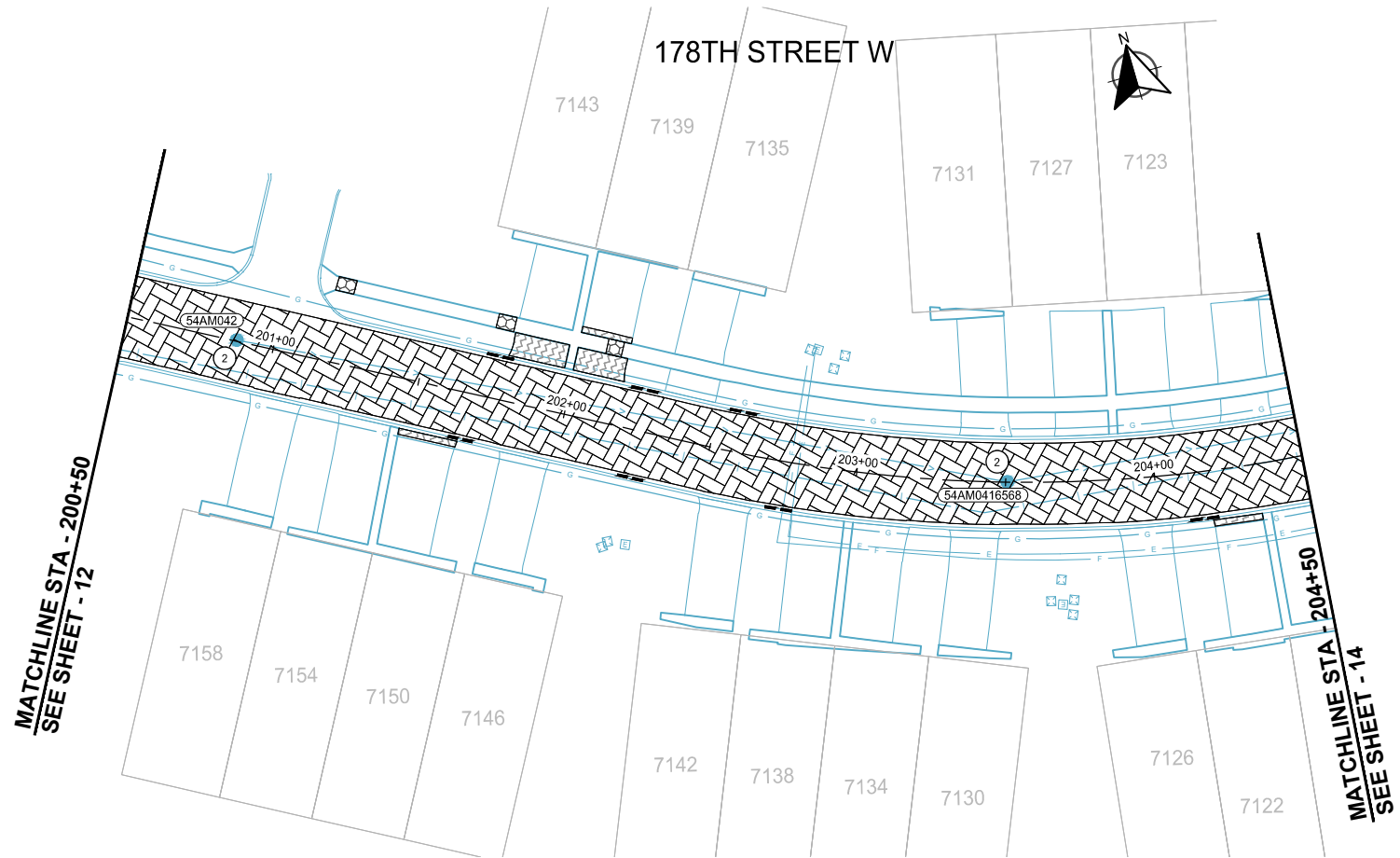
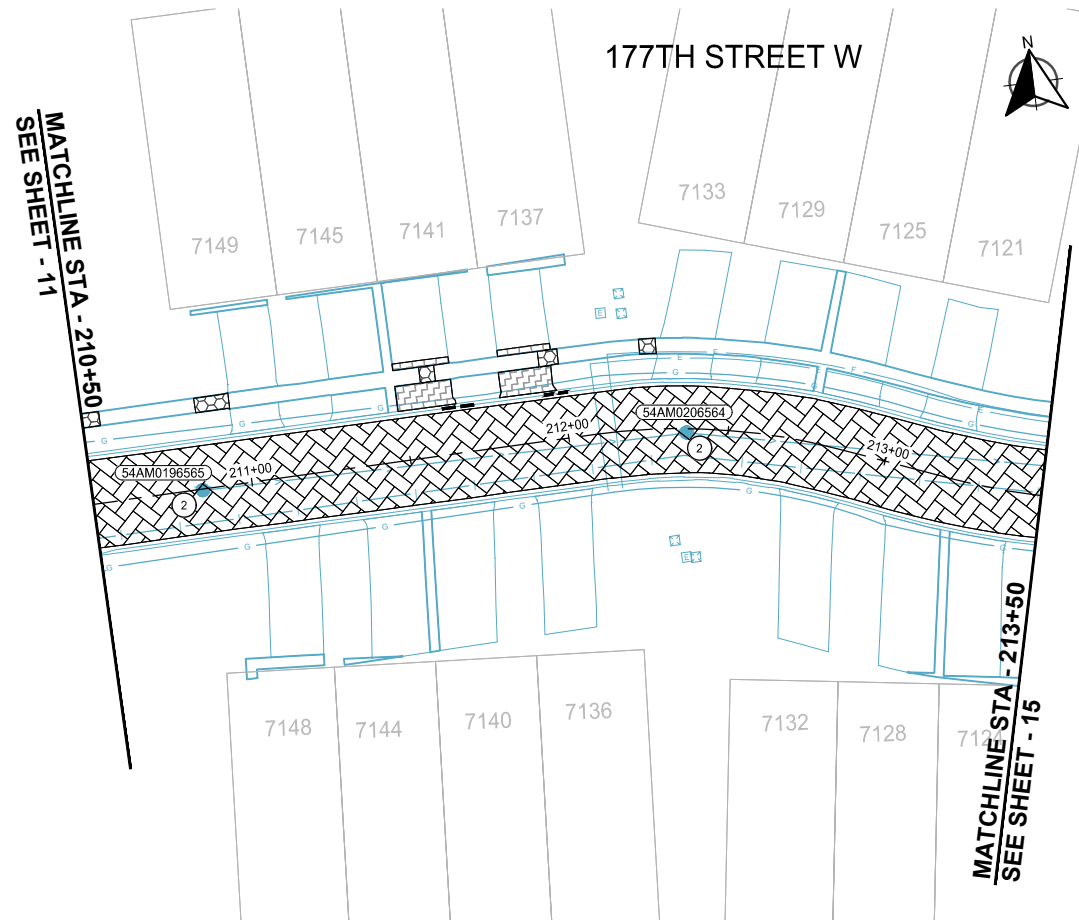
**2025 STREET REHABILITATION PROJECT
 CITY OF LAKEVILLE**

CLIENT PROJECT NO. 25-02

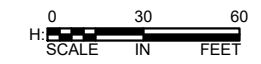
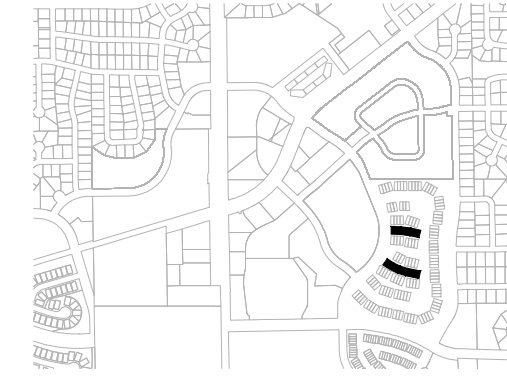
WSB PROJECT NO. 026423-000

SHEET 15 OF 61

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LOCATION



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 PLAN BY: EKM
 DESIGN BY: EKM
 CHECK BY: JAO

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Jeffrey A. Oliver
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 DATE: 02-03-2025 LIC. NO.: 23110

LEGEND

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- (3) INSTALL NEW SANITARY CASTING AND CHIMNEY SEAL
- (S) REMOVE & REPLACE STORM SEWER STRUCTURE
- (C) REMOVE & REPLACE CONCRETE CURB & GUTTER
- (B) REMOVE AND REPLACE BITUMINOUS PAVEMENT
- (V) VARIABLE DEPTH MILL BITUMINOUS PAVEMENT
- (D) REMOVE & REPLACE BITUMINOUS DRIVEWAY AND TRAIL PAVEMENT
- (T) REMOVE CONCRETE WALK AND REPLACE WITH BITUMINOUS TRAIL
- (R) REMOVE & REPLACE CONCRETE DRIVEWAY PAVEMENT (TO FIRST JOINT)
- (S) REMOVE & REPLACE CONCRETE SIDEWALK (TO NEAREST JOINT)
- (G) CLEAR & GRUB TREES

CONSTRUCTION PLANS

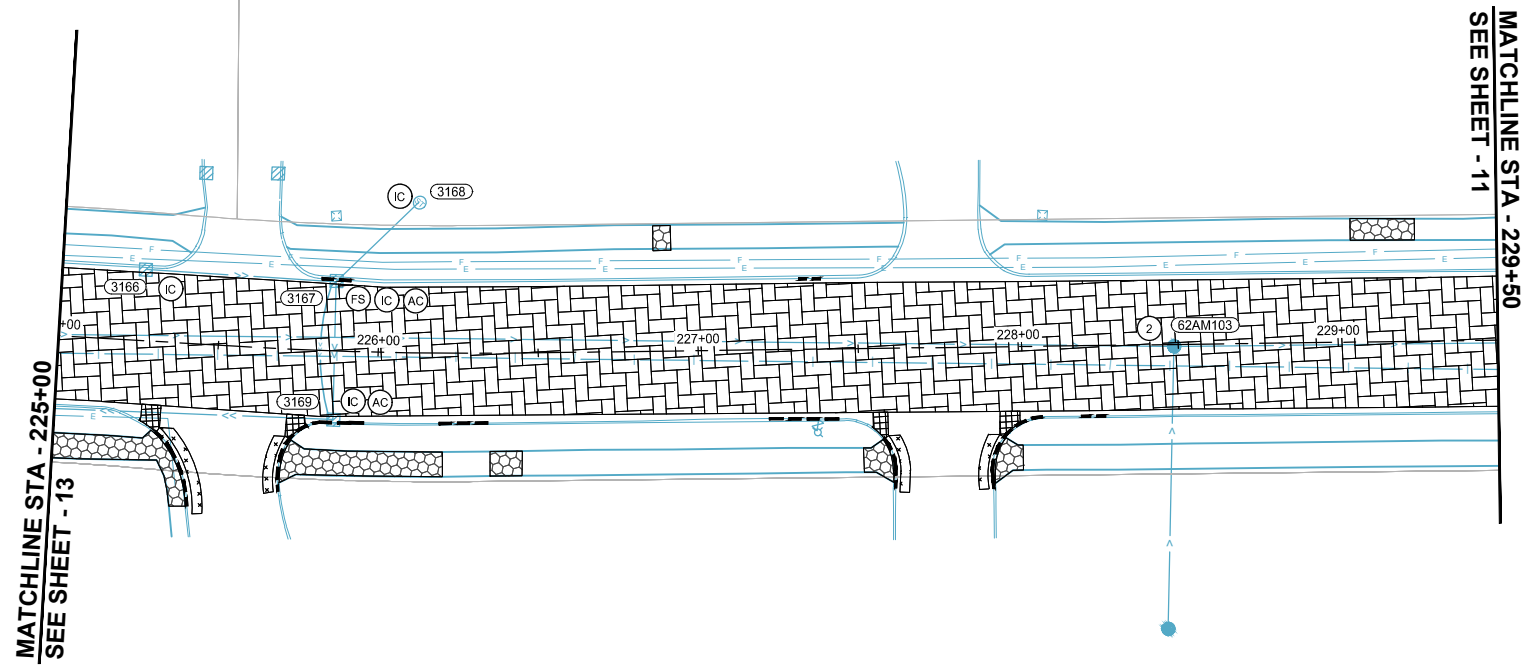
2025 STREET REHABILITATION PROJECT
 CITY OF LAKEVILLE

CLIENT PROJECT NO. 25-02

WSB PROJECT NO. 026423-000

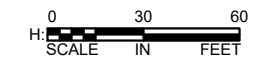
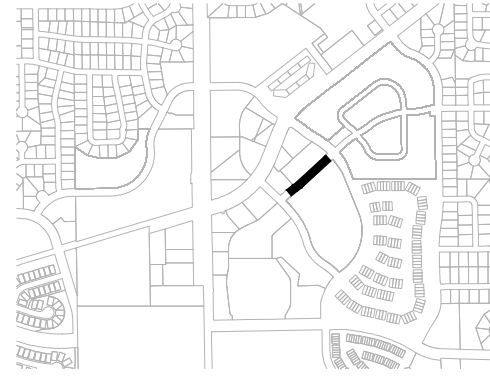
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175TH STREET W

LOCATION



LEGEND

- (RC) REMOVE & REPLACE CASTING
- (FS) FILL STRUCTURE SUMP
- (TS) REMOVE & REPLACE STRUCTURE TOP SLAB
- (IC) INTERIOR CONCRETE WORK (RE-POUR INVERT OR RE-GROUT DOGHOUSE)
- (AC) ADJUST CASTING
- (AG) ADJUST GATE VALVE
- (CG) CLEAR & GRUB TREES
- (AB) ADD BARREL SECTION
- (TG) REMOVE TRASH GAURD
- (1) INSTALL SACRIFICIAL ANODE BAG (17# OR 32# AS DIRECTED BY ENGINEER)
- (2) ADJUST SANITARY CASTING AND INSTALL CHIMNEY SEAL
- (3) INSTALL NEW SANITARY CASTING AND CHIMNEY SEAL
- (S) REMOVE & REPLACE STORM SEWER STRUCTURE
- (---) REMOVE & REPLACE CONCRETE CURB & GUTTER
- (+ + + +) REMOVE AND REPLACE BITUMINOUS PAVEMENT
- (X X X X) VARIABLE DEPTH MILL BITUMINOUS PAVEMENT
- (// // // //) REMOVE & REPLACE BITUMINOUS DRIVEWAY AND TRAIL PAVEMENT
- (□ □ □ □) REMOVE CONCRETE WALK AND REPLACE WITH BITUMINOUS TRAIL
- (■ ■ ■ ■) REMOVE & REPLACE CONCRETE DRIVEWAY PAVEMENT (TO FIRST JOINT)
- (□ □ □ □) REMOVE & REPLACE CONCRETE SIDEWALK (TO NEAREST JOINT)
- (X X X X) CLEAR & GRUB TREES



SCALE: AS SHOWN
 PLAN BY: EKM
 EKM

DESIGN BY: EKM
 CHECK BY: JAO
 JAO

NO.	DATE	DESCRIPTION

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.

Jeffrey A. Oliver
 JEFFREY A. OLIVER
 DATE: 02-03-2025 LIC. NO.: 23110

CONSTRUCTION PLANS

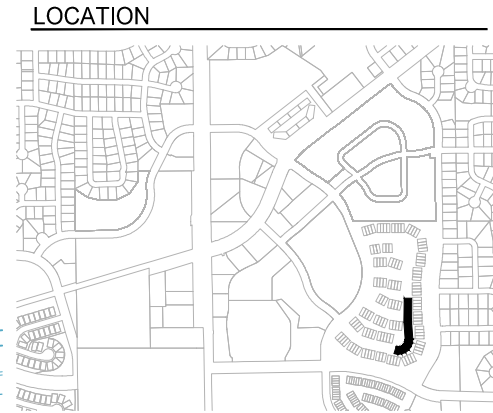
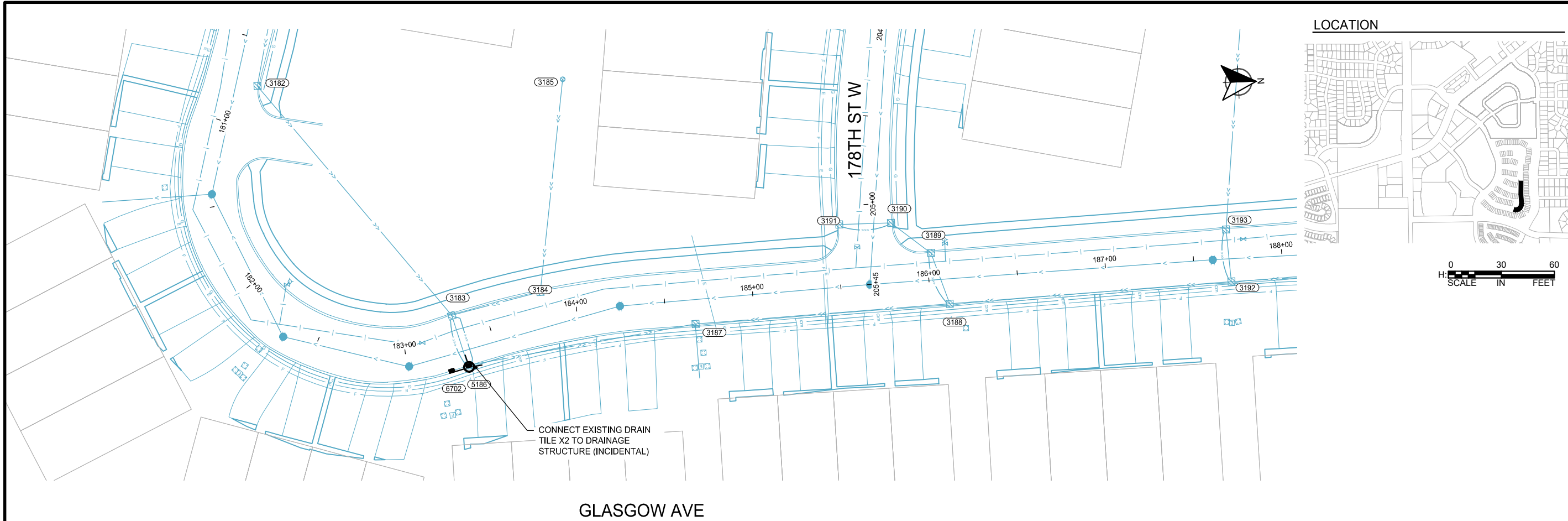
2025 STREET REHABILITATION PROJECT
 CITY OF LAKEVILLE

CLIENT PROJECT NO.
 25-02

WSB PROJECT NO.
 026423-000

SHEET
 17 OF 61

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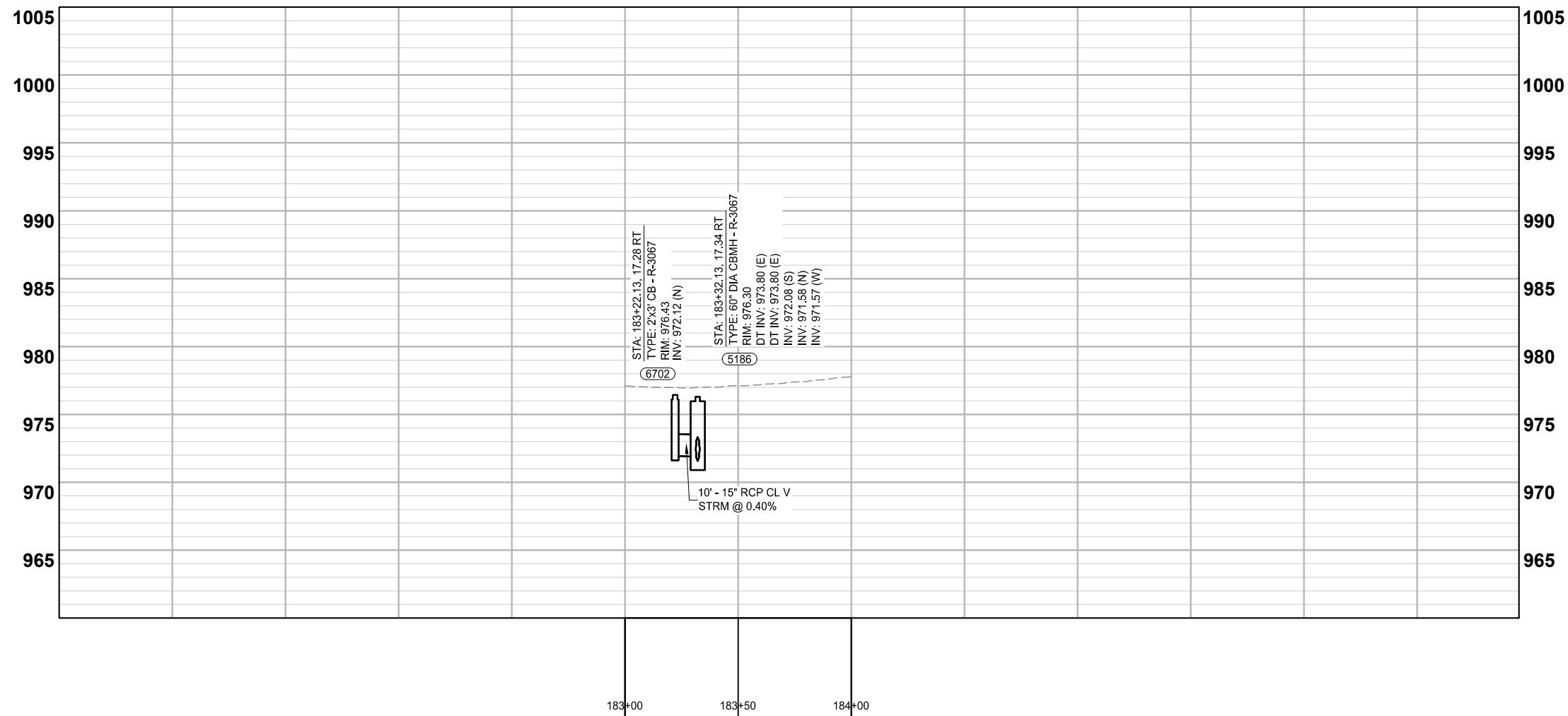
wsb Lakeville
 SCALE: AS SHOWN
 PLAN BY: EKM
 DESIGN BY: EKM
 CHECK BY: JAO

NO.	DATE	DESCRIPTION

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JEFFREY A. OLIVER
 DATE: 02-03-2025 LIC. NO.: 23110

GLASGOW AVE



STORM PROFILE PLANS

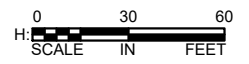
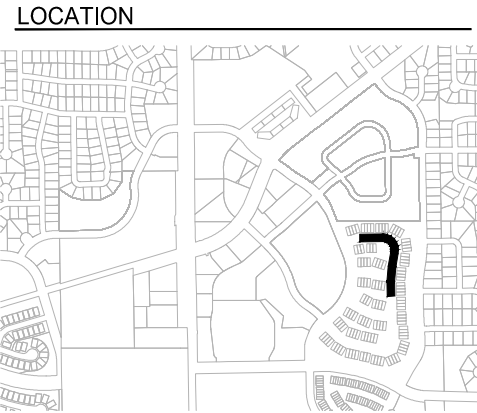
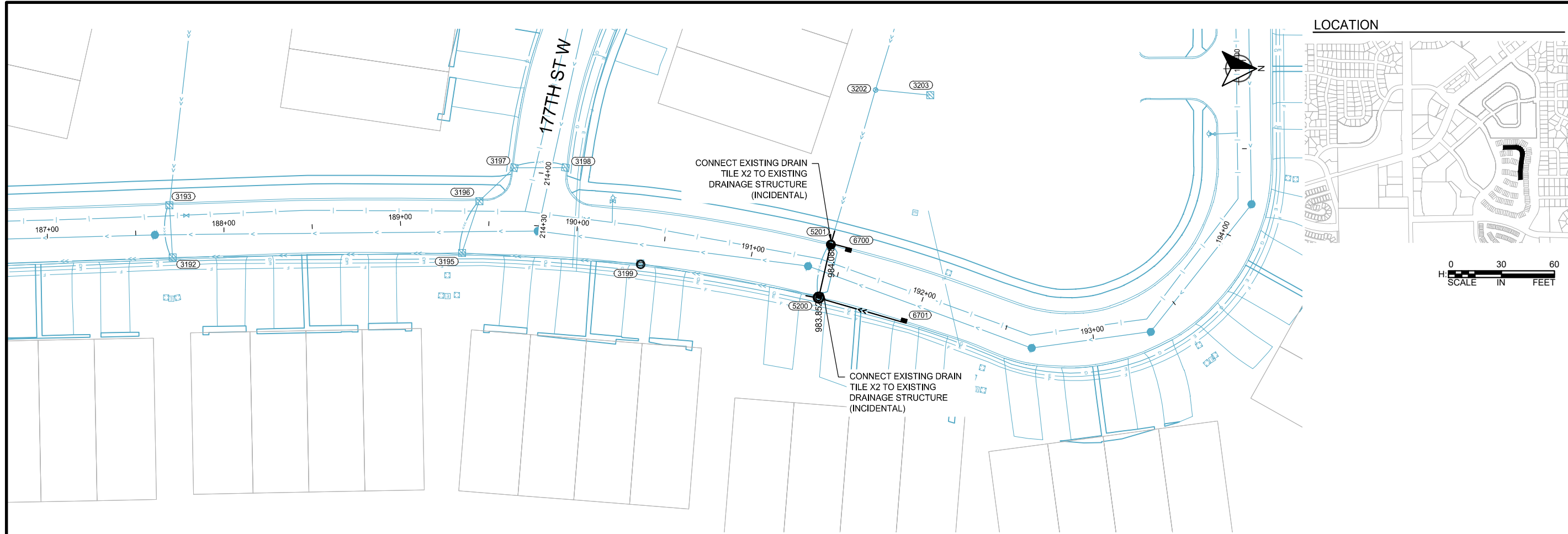
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 CITY OF LAKEVILLE

CLIENT PROJECT NO.
 25-02

WSB PROJECT NO.
 026423-000

SHEET
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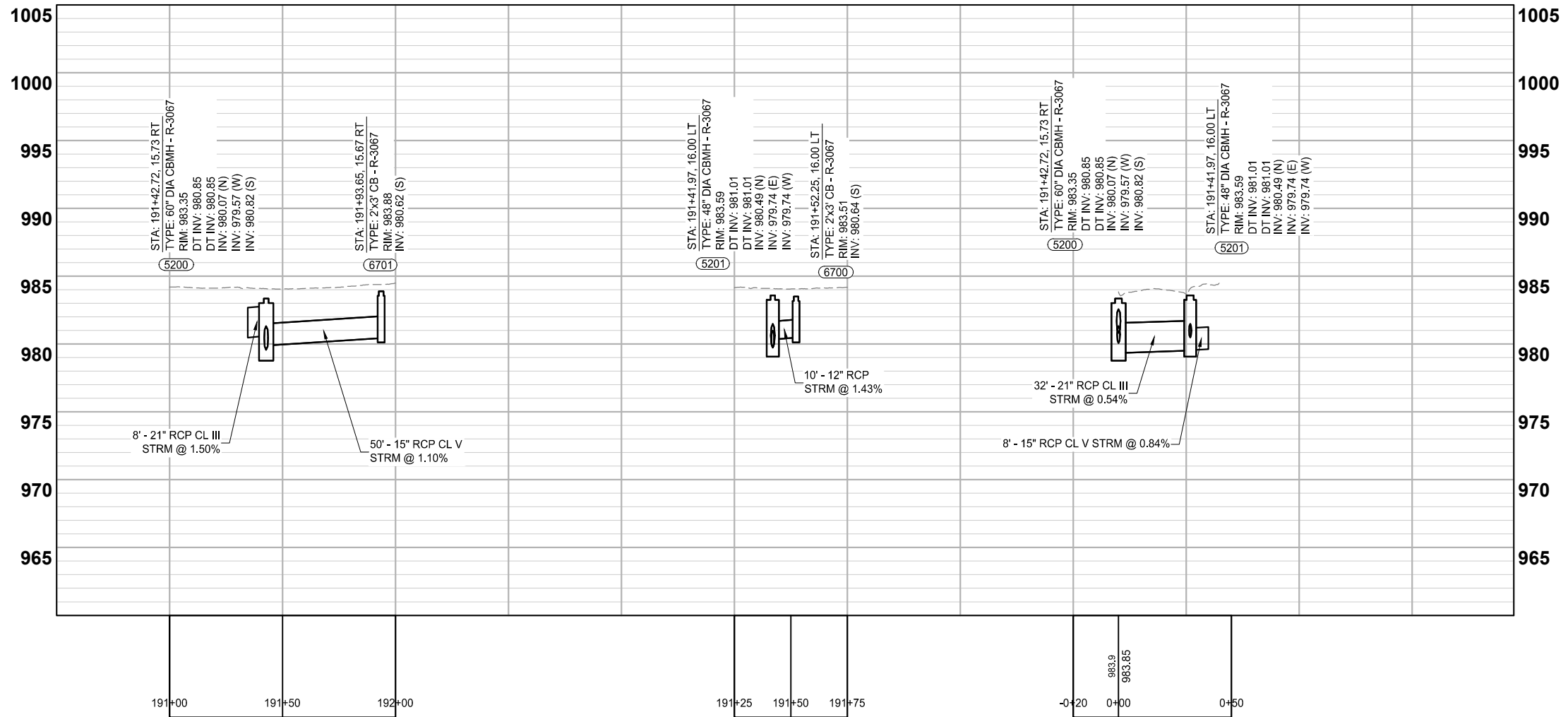
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REVISIONS	
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JEFFREY A. OLIVER
 DATE: 02-03-2025 LIC. NO.: 23110



STORM PROFILE PLANS

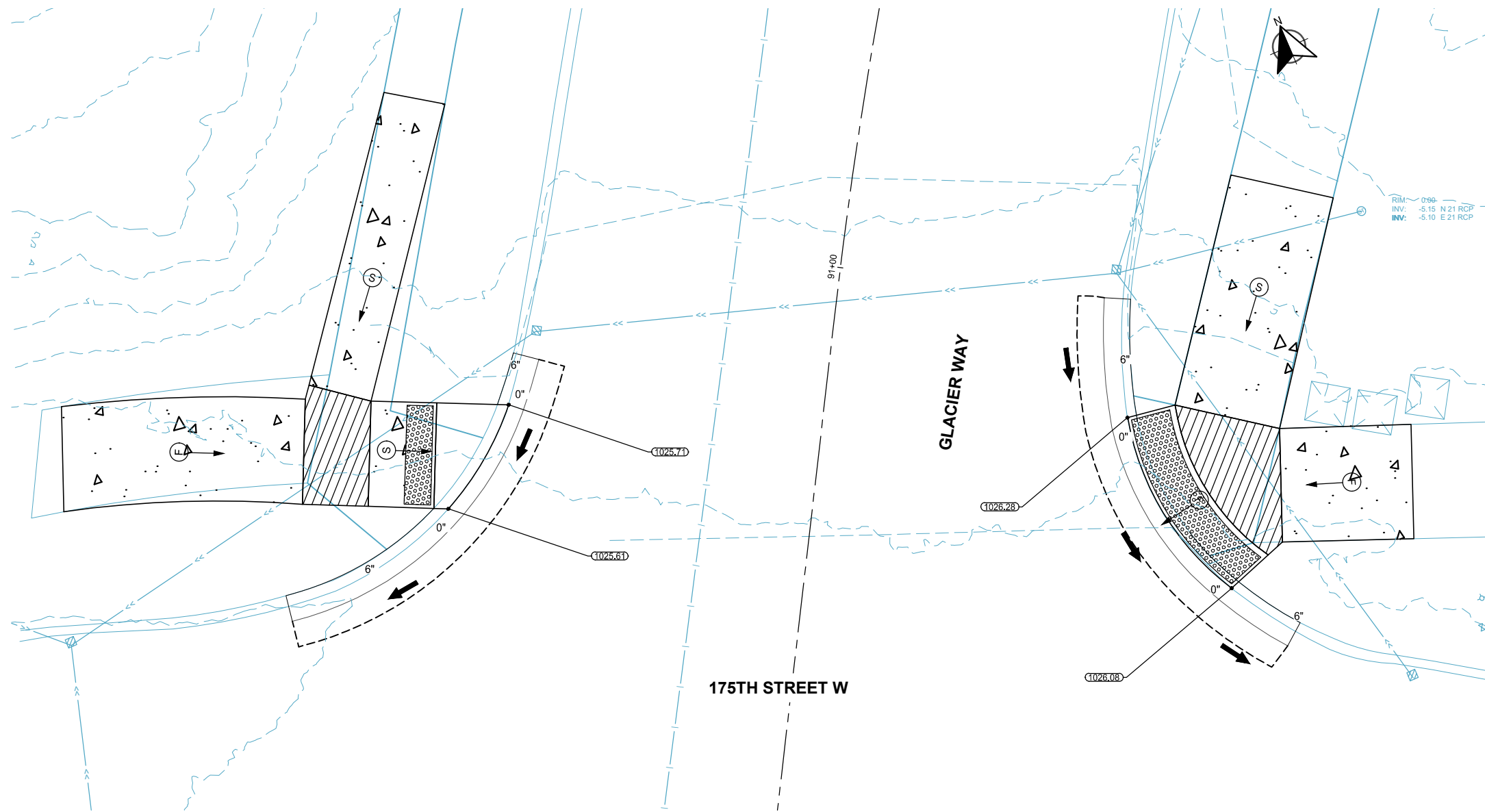
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 CITY OF LAKEVILLE

CLIENT PROJECT NO. 25-02

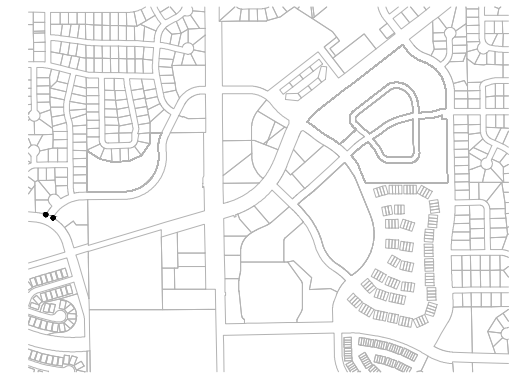
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SHEET 19 OF 61

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LOCATION



0 5 10
SCALE IN FEET

LEGEND

- INDICATES PEDESTRIAN RAMP: SLOPE SHALL BE BETWEEN 5.0% MINIMUM AND 8.3% MAXIMUM IN THE DIRECTION SHOWN AND CROSS SLOPE SHALL NOT EXCEED 2.0%
- 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%
- PROPOSED LANDING AREA 4'x4' MIN. DIMENSIONS MAX 2% SLOPE IN ALL DIRECTIONS
- PROPOSED TRUNCATED DOMES
- PROPOSED CONCRETE WALK
- PROPOSED BITUMINOUS TRAIL
- EXISTING SPOT ELEVATION
- PROPOSED SPOT ELEVATION
- CURB HEIGHT
- PROPOSED FLOW DIRECTION
- FULL DEPTH BITUMINOUS PATCH

REVISIONS	
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JEFFREY A. OLIVER
DATE: 02-03-2025 LIC. NO.: 23110

PEDESTRIAN RAMP PLANS

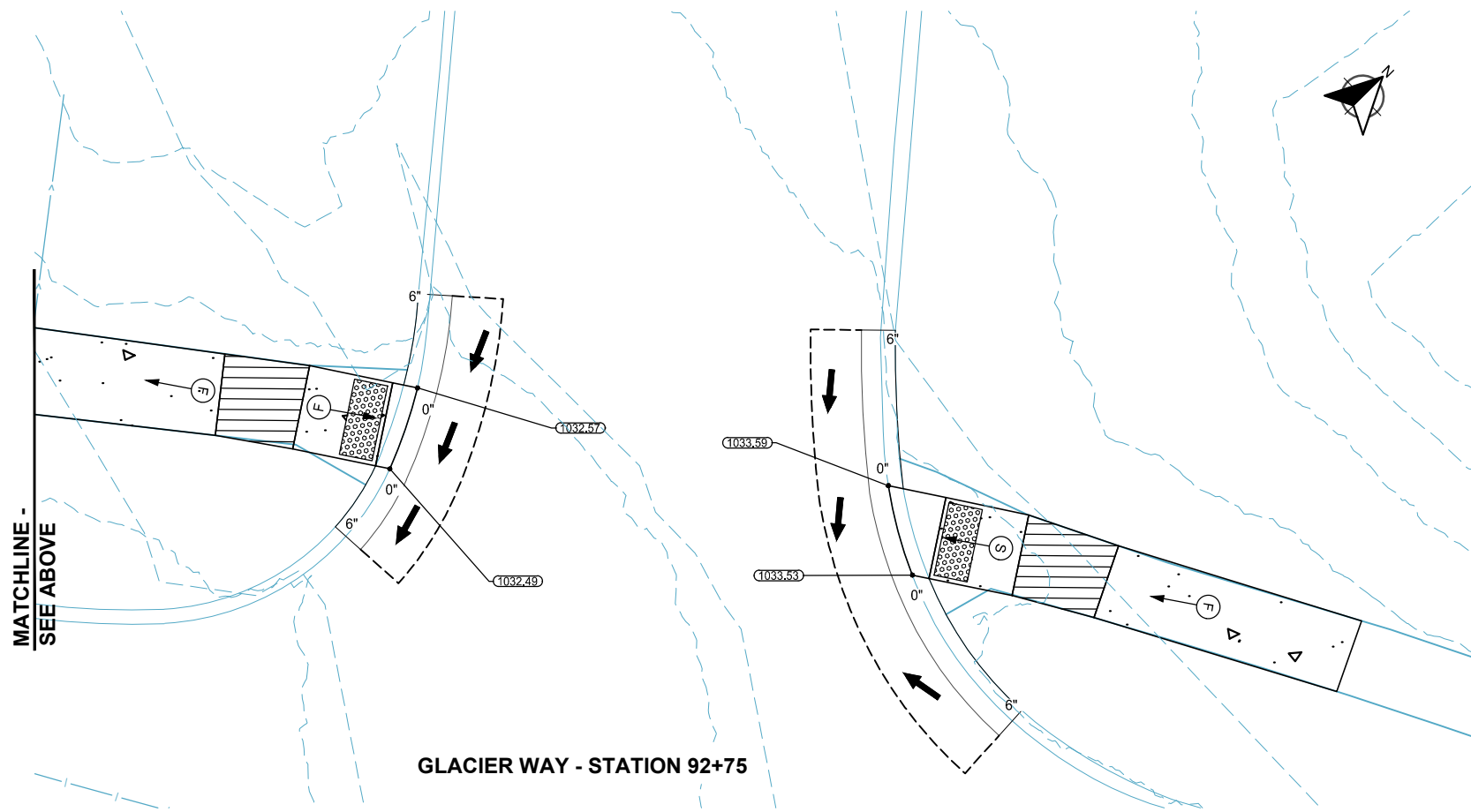
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CITY OF LAKEVILLE

CLIENT PROJECT NO. 25-02

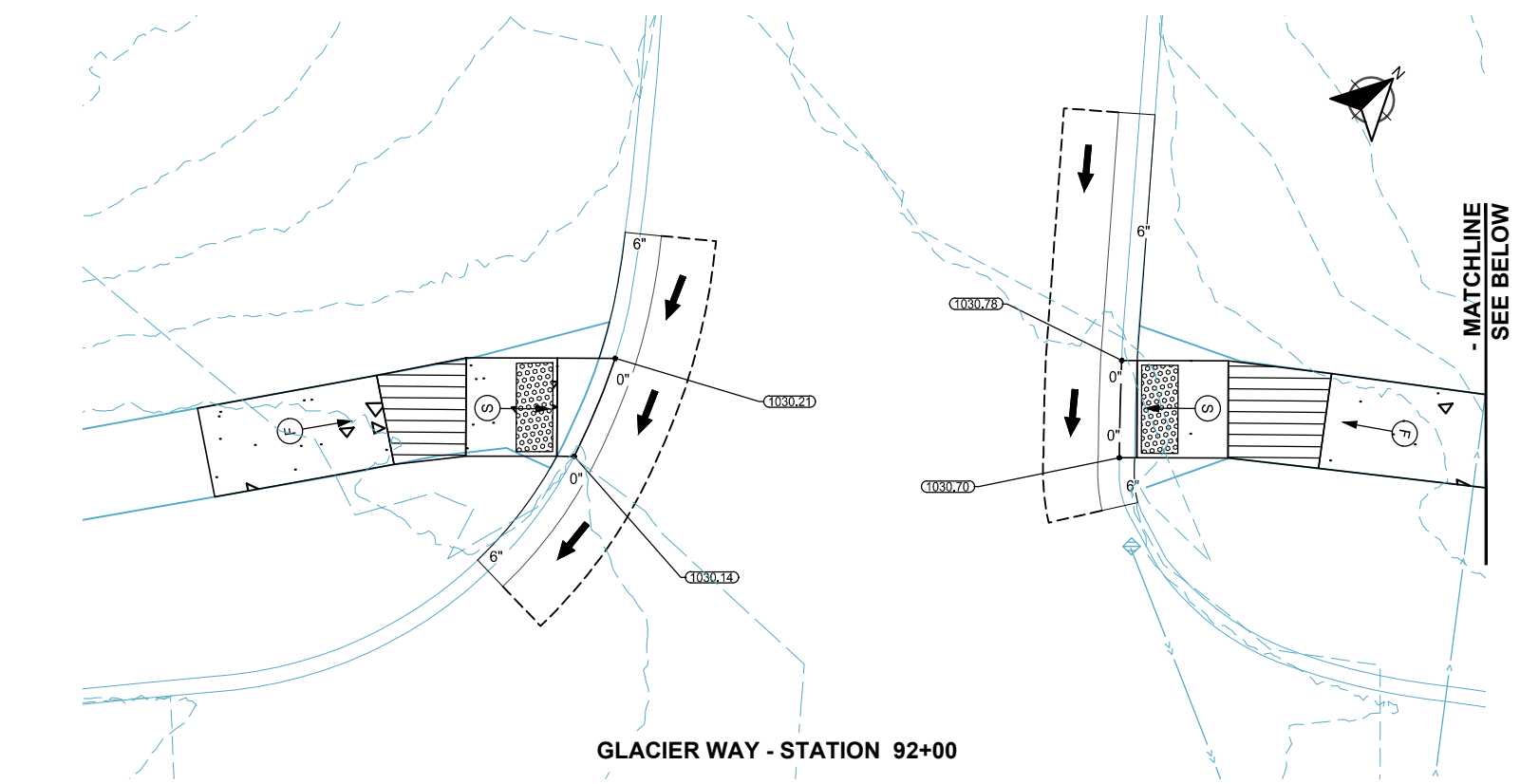
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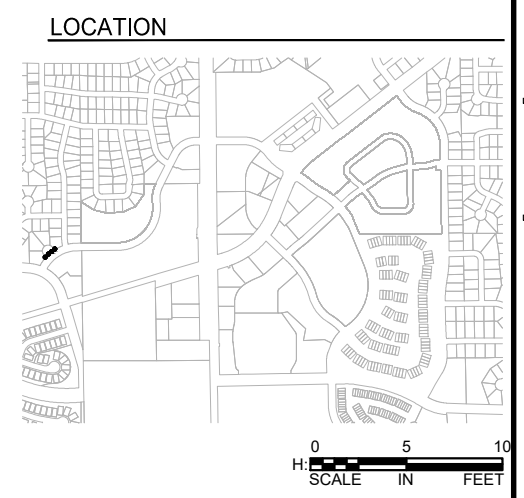
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GLACIER WAY - STATION 92+75



GLACIER WAY - STATION 92+00



- LEGEND**
- INDICATES PEDESTRIAN RAMP: SLOPE SHALL BE BETWEEN 5.0% MINIMUM AND 8.3% MAXIMUM IN THE DIRECTION SHOWN AND CROSS SLOPE SHALL NOT EXCEED 2.0%
 - 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%
 - PROPOSED LANDING AREA 4'x4' MIN. DIMENSIONS MAX 2% SLOPE IN ALL DIRECTIONS
 - PROPOSED TRUNCATED DOMES
 - PROPOSED CONCRETE WALK
 - PROPOSED BITUMINOUS TRAIL
 - EXISTING SPOT ELEVATION
 - PROPOSED SPOT ELEVATION
 - CURB HEIGHT
 - PROPOSED FLOW DIRECTION
 - FULL DEPTH BITUMINOUS PATCH

wsb

SCALE: AS SHOWN
PLAN BY: EKM

DESIGN BY: EKM
CHECK BY: JAO

REVISIONS	
NO.	DESCRIPTION

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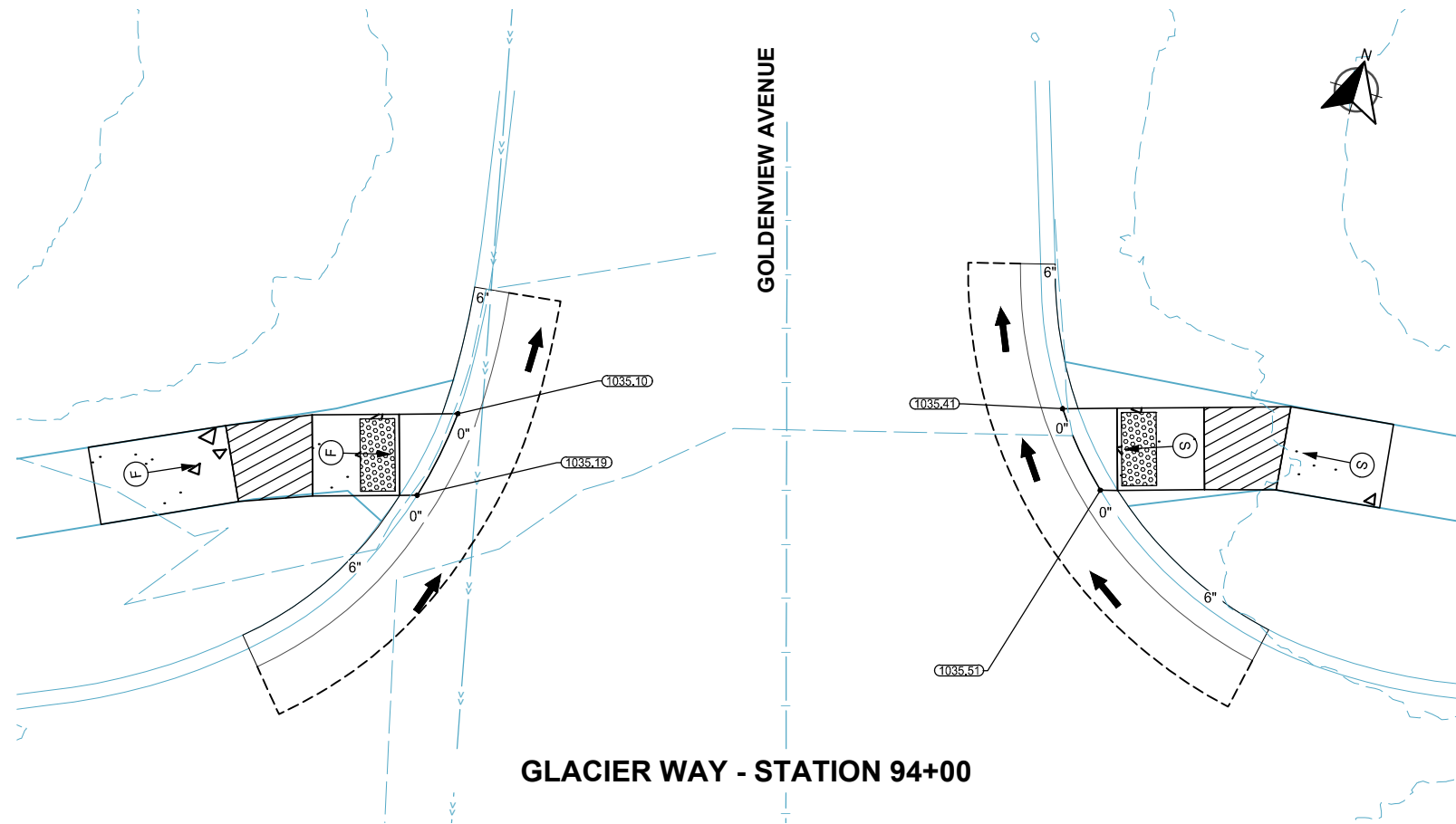
JEFFREY A. OLIVER
DATE: 02-03-2025 LIC. NO.: 23110

PEDESTRIAN RAMP PLANS

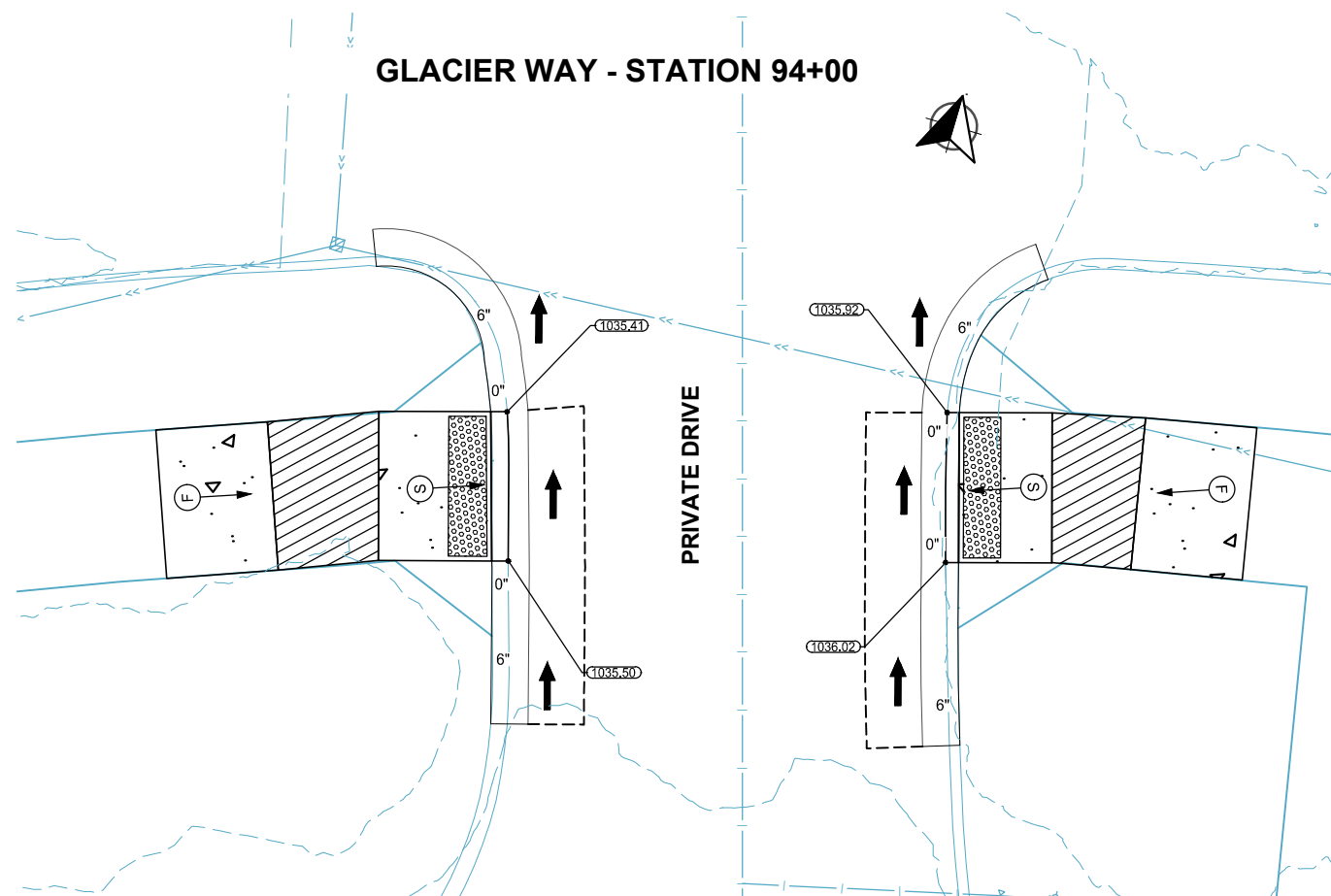
**2025 STREET REHABILITATION PROJECT
CITY OF LAKEVILLE**

CLIENT PROJECT NO. 25-02
WSB PROJECT NO. 026423-000
SHEET 21 OF 61

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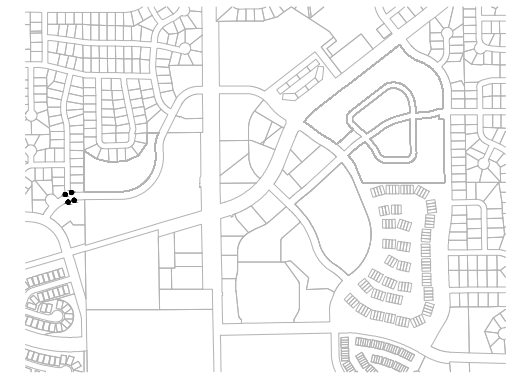


GLACIER WAY - STATION 94+00



GLACIER WAY - STATION 94+00

LOCATION



0 5 10
SCALE IN FEET

LEGEND

- INDICATES PEDESTRIAN RAMP: SLOPE SHALL BE BETWEEN 5.0% MINIMUM AND 8.3% MAXIMUM IN THE DIRECTION SHOWN AND CROSS SLOPE SHALL NOT EXCEED 2.0%
- 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%
- PROPOSED LANDING AREA 4'x4' MIN. DIMENSIONS MAX 2% SLOPE IN ALL DIRECTIONS
- PROPOSED TRUNCATED DOMES
- PROPOSED CONCRETE WALK
- PROPOSED BITUMINOUS TRAIL
- EXISTING SPOT ELEVATION
- PROPOSED SPOT ELEVATION
- CURB HEIGHT
- PROPOSED FLOW DIRECTION
- FULL DEPTH BITUMINOUS PATCH



SCALE: AS SHOWN
PLAN BY: EKM
EKM

DESIGN BY: EKM
CHECK BY: JAO
JAO

REVISIONS	
NO.	DESCRIPTION

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JEFFREY A. OLIVER
DATE: 02-03-2025 LIC. NO.: 23110

PEDESTRIAN RAMP PLANS

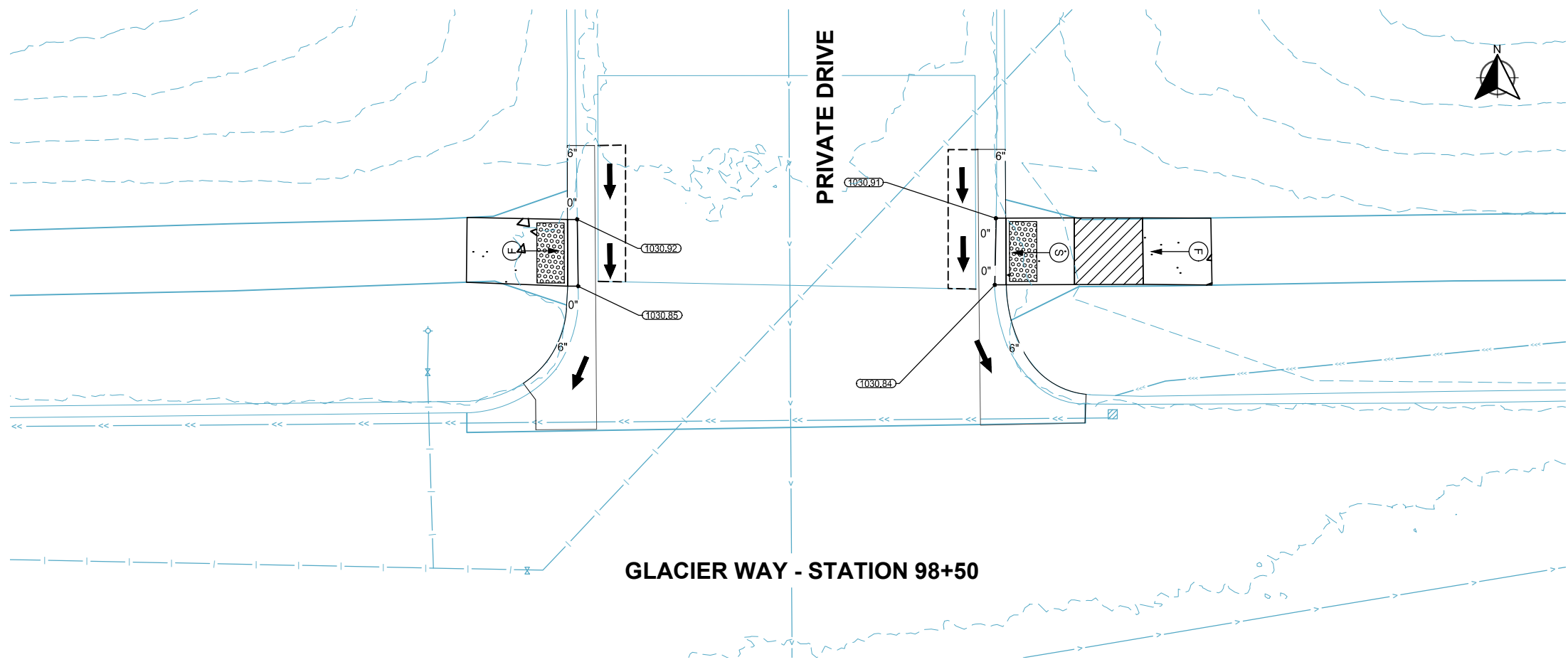
**2025 STREET REHABILITATION PROJECT
CITY OF LAKEVILLE**

CLIENT PROJECT NO.
25-02

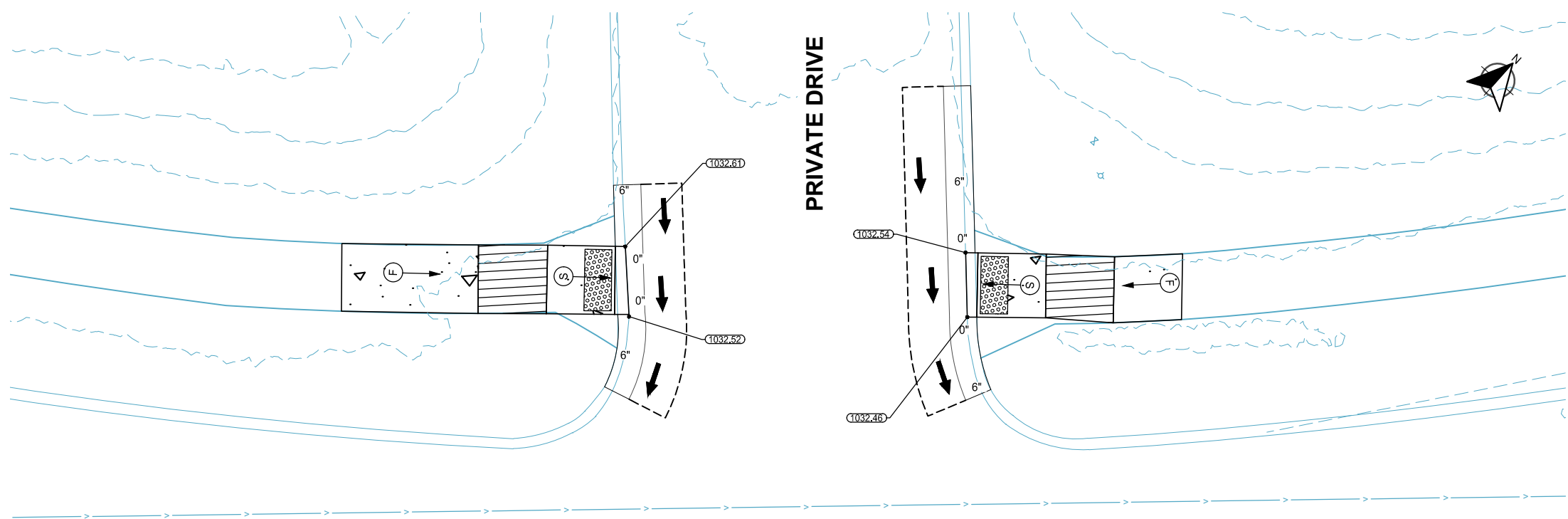
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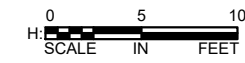
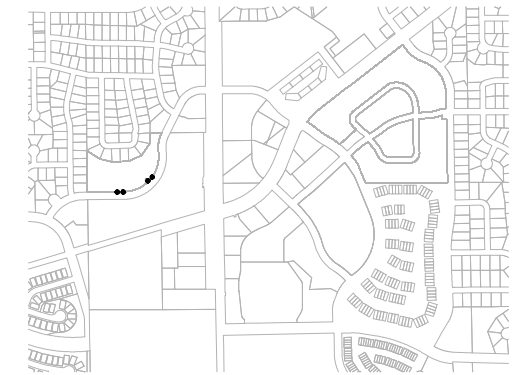


GLACIER WAY - STATION 98+50














GLACIER WAY - STATION 102+25

LOCATION



LEGEND

-  INDICATES PEDESTRIAN RAMP: SLOPE SHALL BE BETWEEN 5.0% MINIMUM AND 8.3% MAXIMUM IN THE DIRECTION SHOWN AND CROSS SLOPE SHALL NOT EXCEED 2.0%
-  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%
-  PROPOSED LANDING AREA
4'x4' MIN. DIMENSIONS
MAX 2% SLOPE IN ALL DIRECTIONS
-  PROPOSED TRUNCATED DOMES
-  PROPOSED CONCRETE WALK
-  PROPOSED BITUMINOUS TRAIL
-  EXISTING SPOT ELEVATION
-  PROPOSED SPOT ELEVATION
-  C'URB HEIGHT
-  PROPOSED FLOW DIRECTION
-  FULL DEPTH BITUMINOUS PATCH




SCALE: AS SHOWN
PLAN BY: EKM
EKM

DESIGN BY: EKM
CHECK BY: JAO
JAO

REVISIONS	
NO.	DESCRIPTION

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.


JEFFREY A. OLIVER
DATE: 02-03-2025 LIC. NO.: 23110

PEDESTRIAN RAMP PLANS

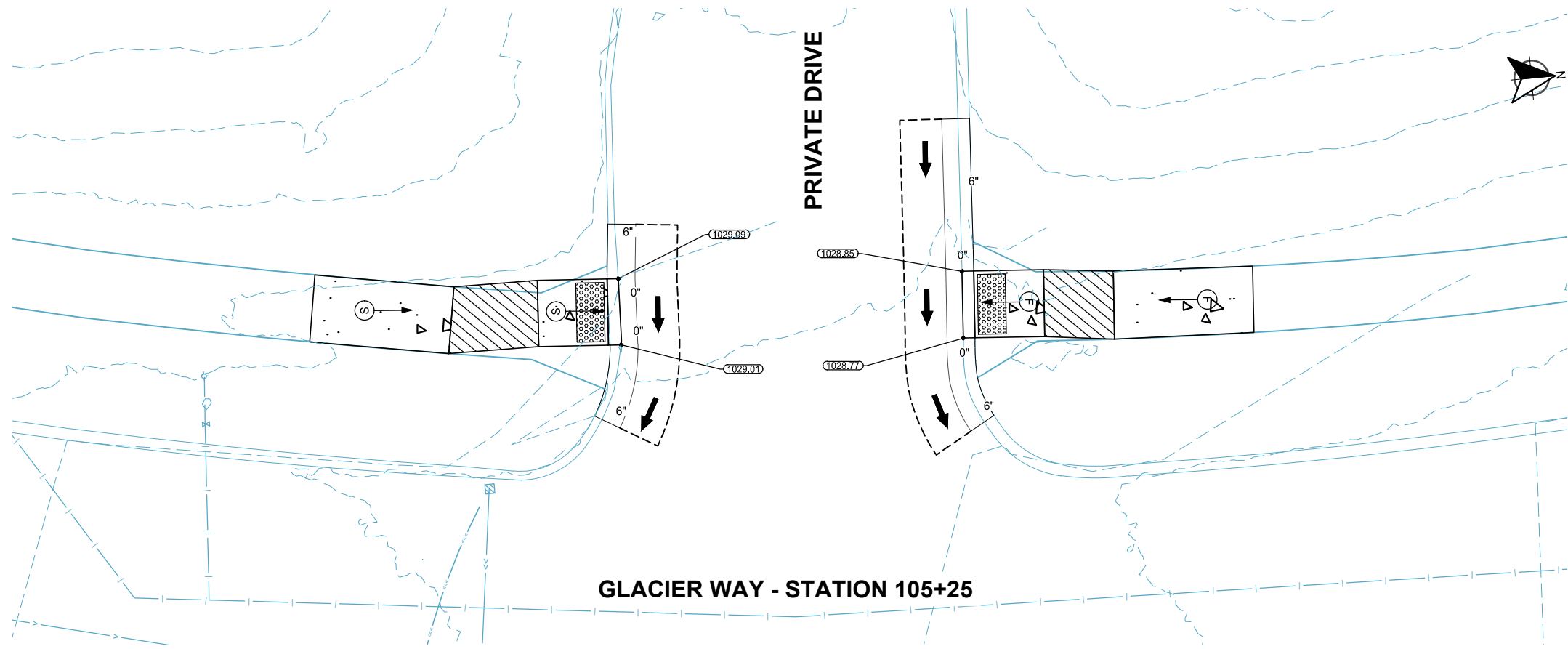
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CITY OF LAKEVILLE

CLIENT PROJECT NO.
25-02

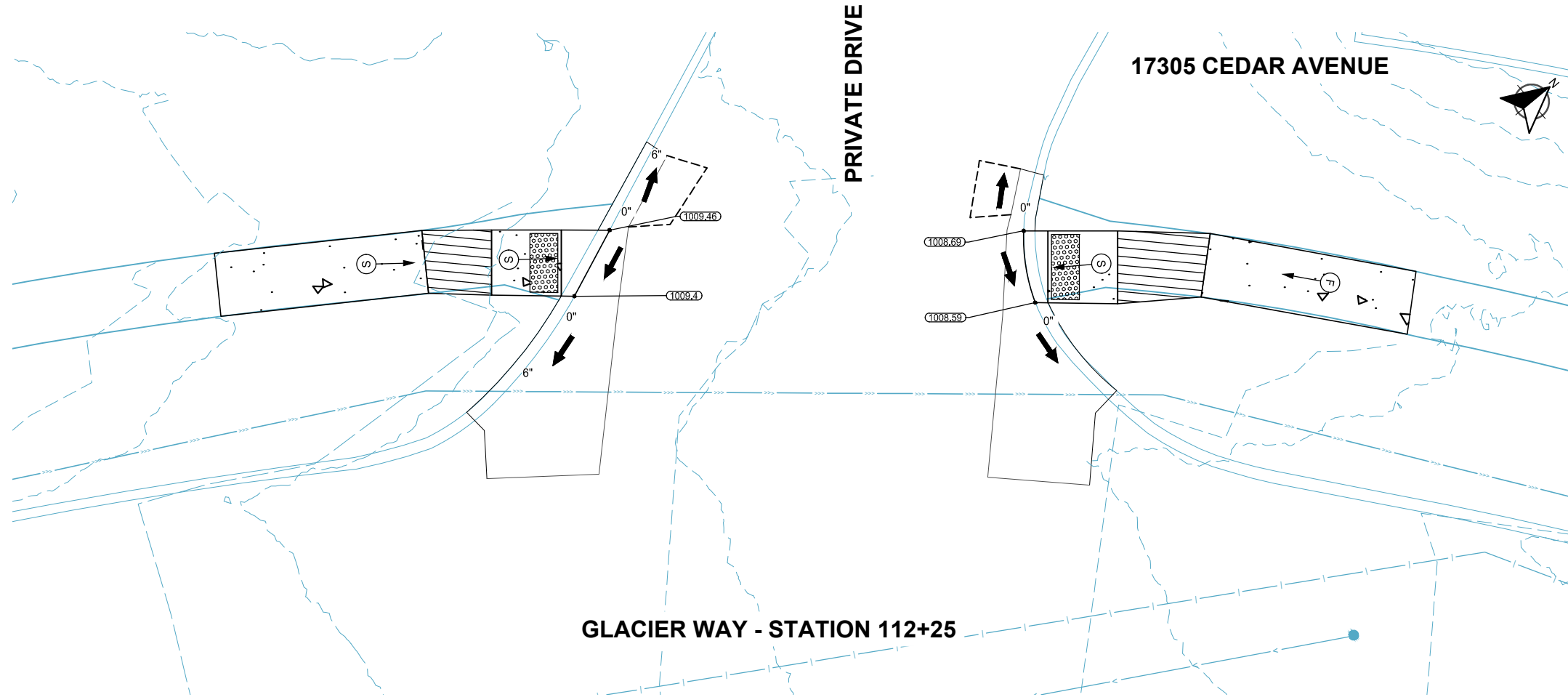
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026423-000

SHEET
23 OF 61

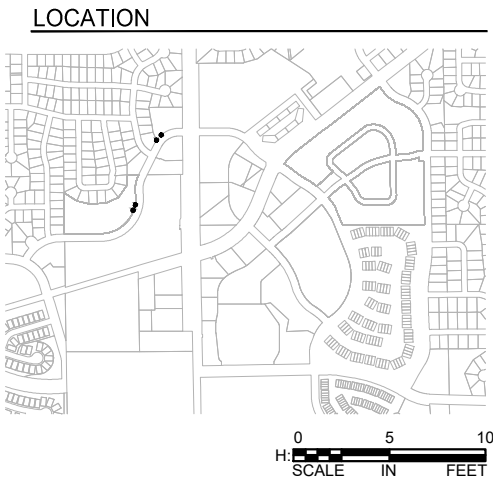
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GLACIER WAY - STATION 105+25



GLACIER WAY - STATION 112+25



LEGEND

- INDICATES PEDESTRIAN RAMP: SLOPE SHALL BE BETWEEN 5.0% MINIMUM AND 8.3% MAXIMUM IN THE DIRECTION SHOWN AND CROSS SLOPE SHALL NOT EXCEED 2.0%
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MAX 2% SLOPE IN ALL DIRECTIONS
- PROPOSED TRUNCATED DOMES
- PROPOSED CONCRETE WALK
- PROPOSED BITUMINOUS TRAIL
- EXISTING SPOT ELEVATION
- PROPOSED SPOT ELEVATION
- CURB HEIGHT
- PROPOSED FLOW DIRECTION
- FULL DEPTH BITUMINOUS PATCH

wsb Lakeville

SCALE: AS SHOWN
PLAN BY: EKM
EKM

DESIGN BY: EKM
CHECK BY: JAO
JAO

REVISIONS	
NO.	DESCRIPTION

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DATE: 02-03-2025 LIC. NO.: 23110

PEDESTRIAN RAMP PLANS

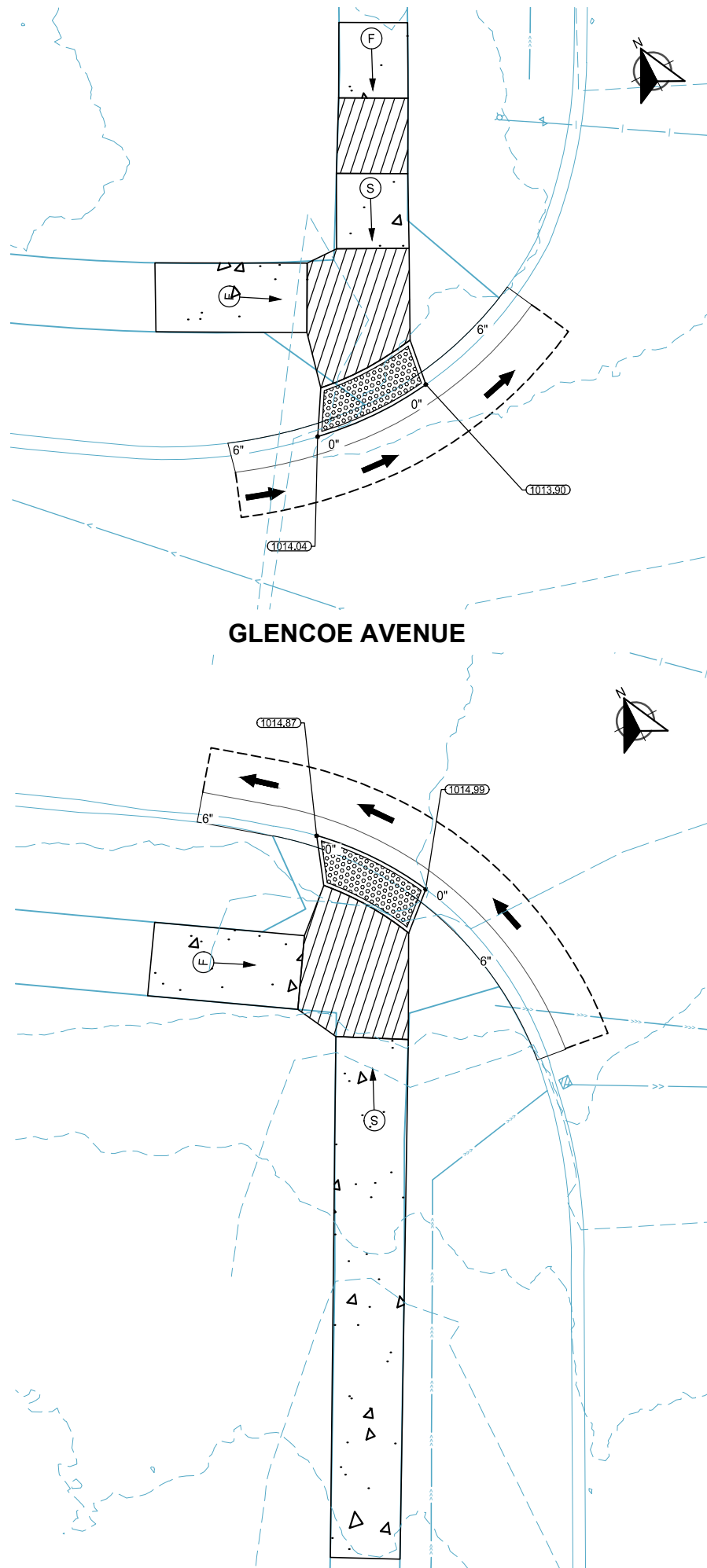
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CITY OF LAKEVILLE

CLIENT PROJECT NO.
25-02

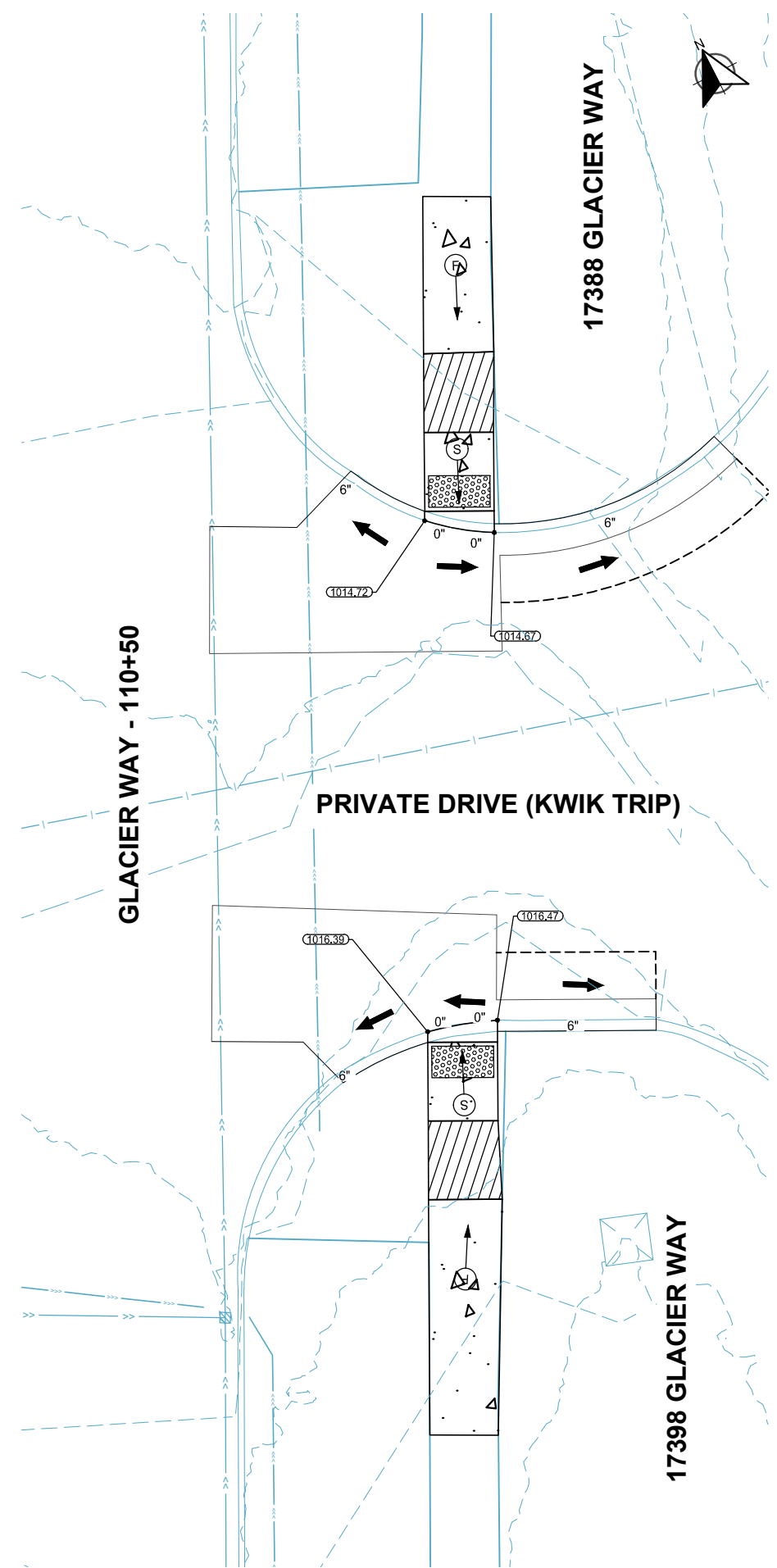
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026423-000

SHEET
24 OF 61

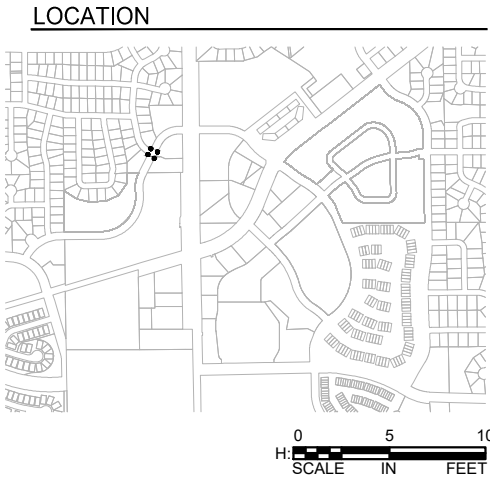
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GLACIERE WAY - STATION 110+50



GLACIERE WAY - 110+50



LEGEND

- INDICATES PEDESTRIAN RAMP: SLOPE SHALL BE BETWEEN 5.0% MINIMUM AND 8.3% MAXIMUM IN THE DIRECTION SHOWN AND CROSS SLOPE SHALL NOT EXCEED 2.0%
- 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%
- PROPOSED LANDING AREA 4'x4' MIN. DIMENSIONS MAX 2% SLOPE IN ALL DIRECTIONS
- PROPOSED TRUNCATED DOMES
- PROPOSED CONCRETE WALK
- PROPOSED BITUMINOUS TRAIL
- EXISTING SPOT ELEVATION
- PROPOSED SPOT ELEVATION
- CURB HEIGHT
- PROPOSED FLOW DIRECTION
- FULL DEPTH BITUMINOUS PATCH

wsb

SCALE: AS SHOWN
PLAN BY: EKM
EKM

DESIGN BY: EKM
CHECK BY: JAO

DATE: 02-03-2025 LIC. NO.: 23110

JEFFREY A. OLIVER

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PEDESTRIAN RAMP PLANS

**2025 STREET REHABILITATION PROJECT
CITY OF LAKEVILLE**

CLIENT PROJECT NO. 25-02

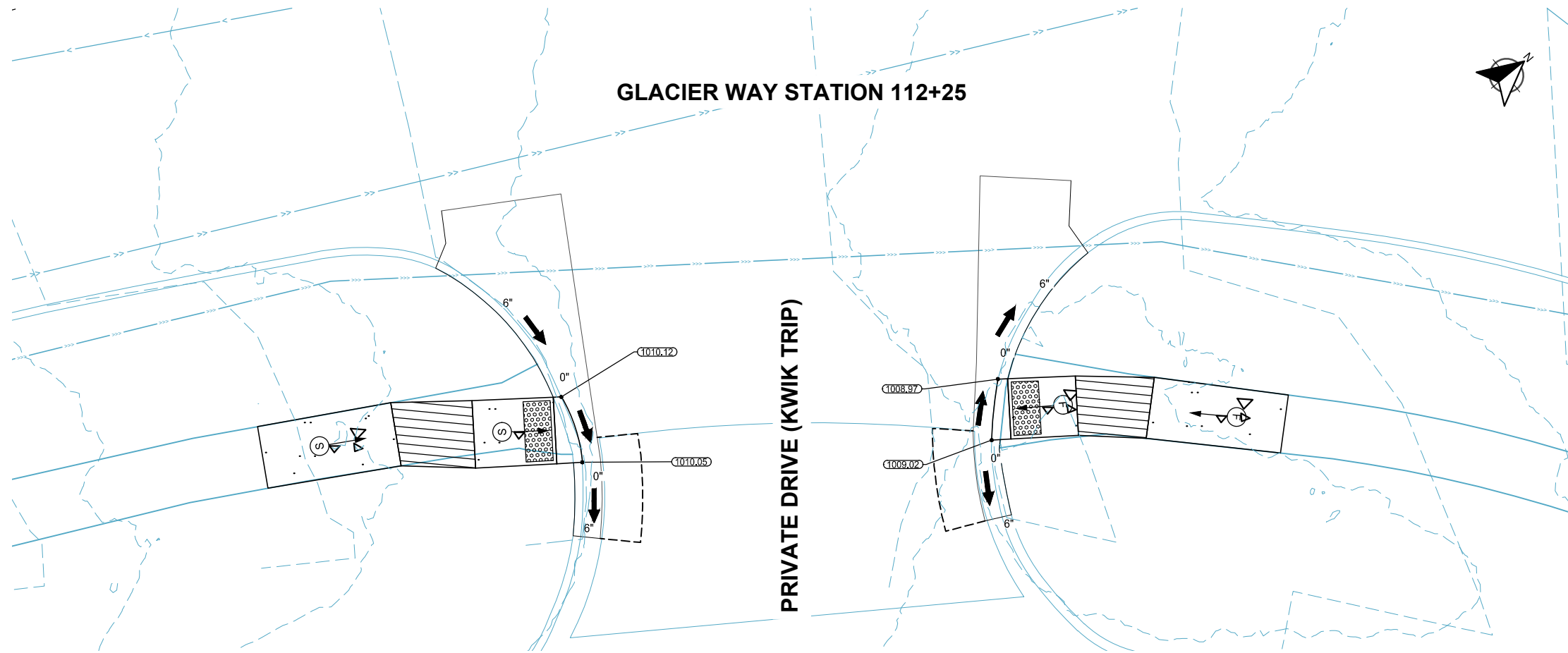
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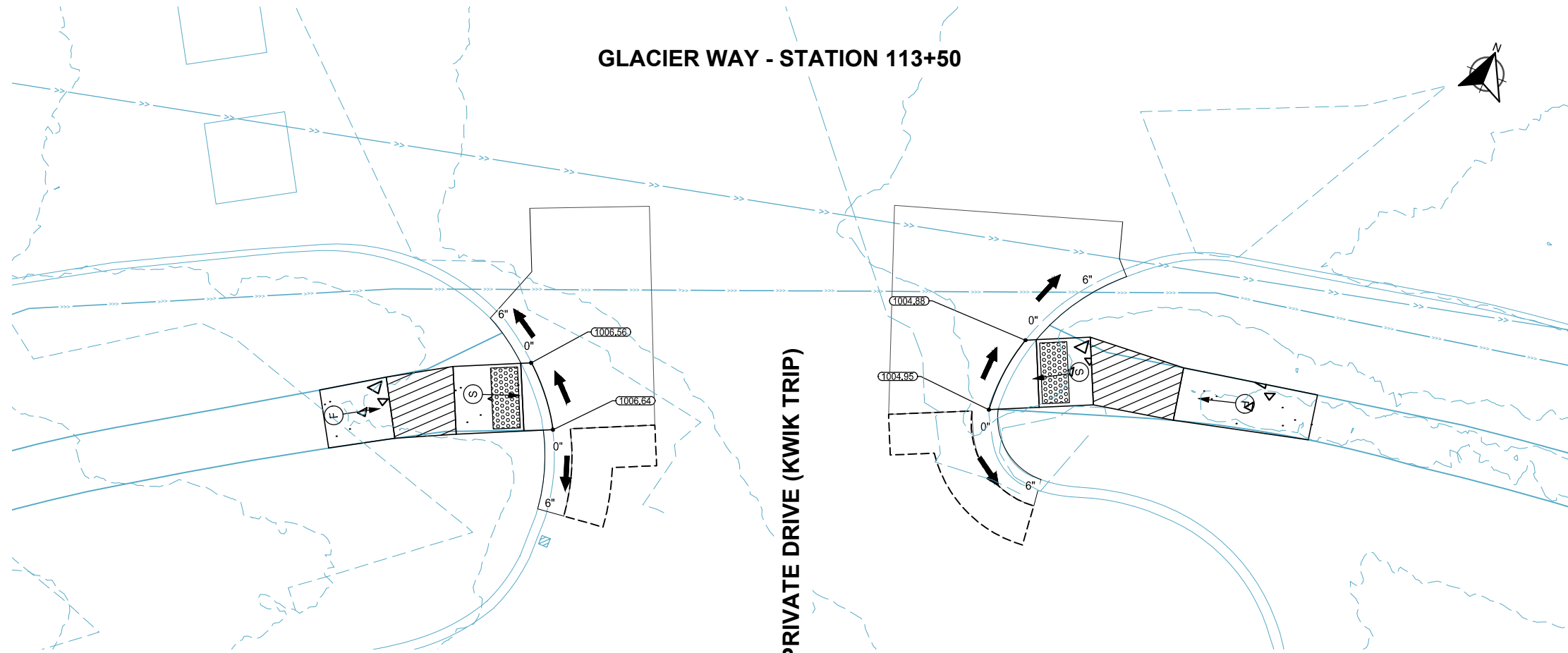
GLACIER WAY STATION 112+25

PRIVATE DRIVE (KWIK TRIP)

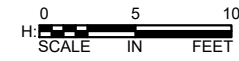
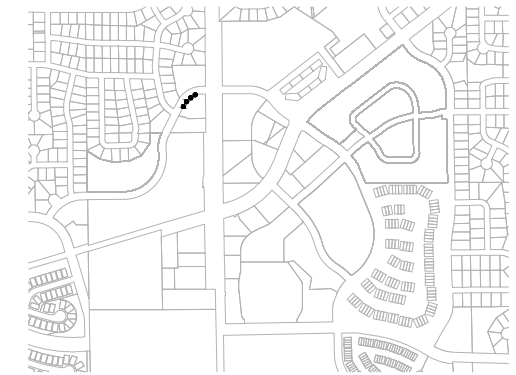


GLACIER WAY - STATION 113+50

PRIVATE DRIVE (KWIK TRIP)



LOCATION



REVISIONS

NO.	DATE	DESCRIPTION

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Jeffrey A. Oliver
JEFFREY A. OLIVER

DATE: 02-03-2025 LIC. NO.: 23110

PEDESTRIAN RAMP PLANS

LEGEND

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- PROPOSED BITUMINOUS TRAIL
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- PROPOSED SPOT ELEVATION
- CURB HEIGHT
- PROPOSED FLOW DIRECTION
- FULL DEPTH BITUMINOUS PATCH

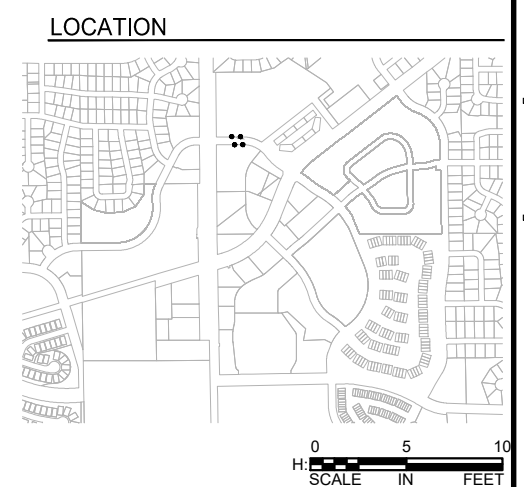
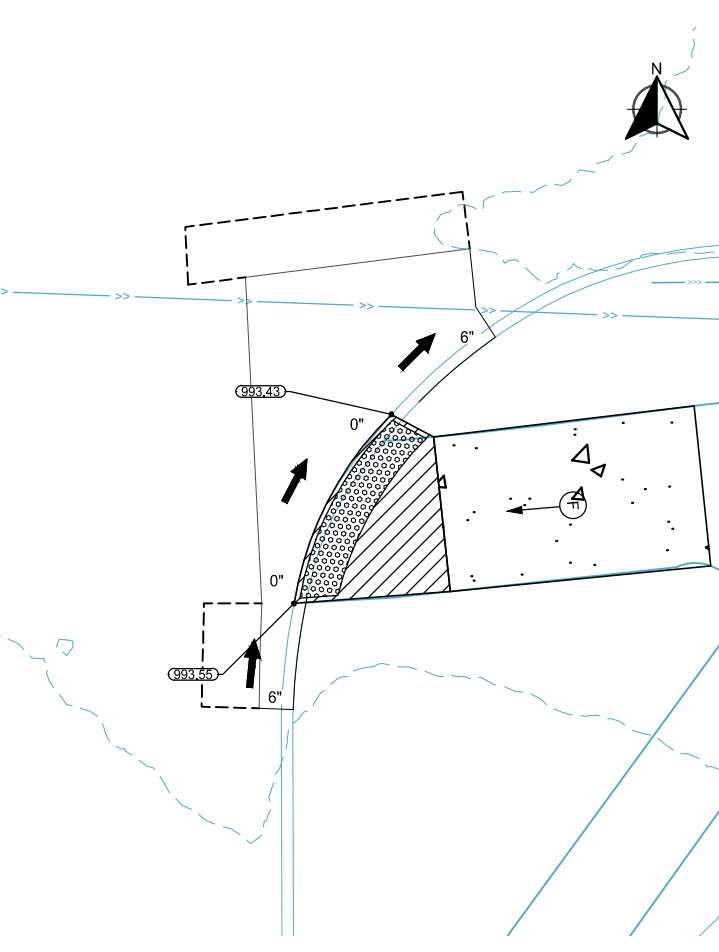
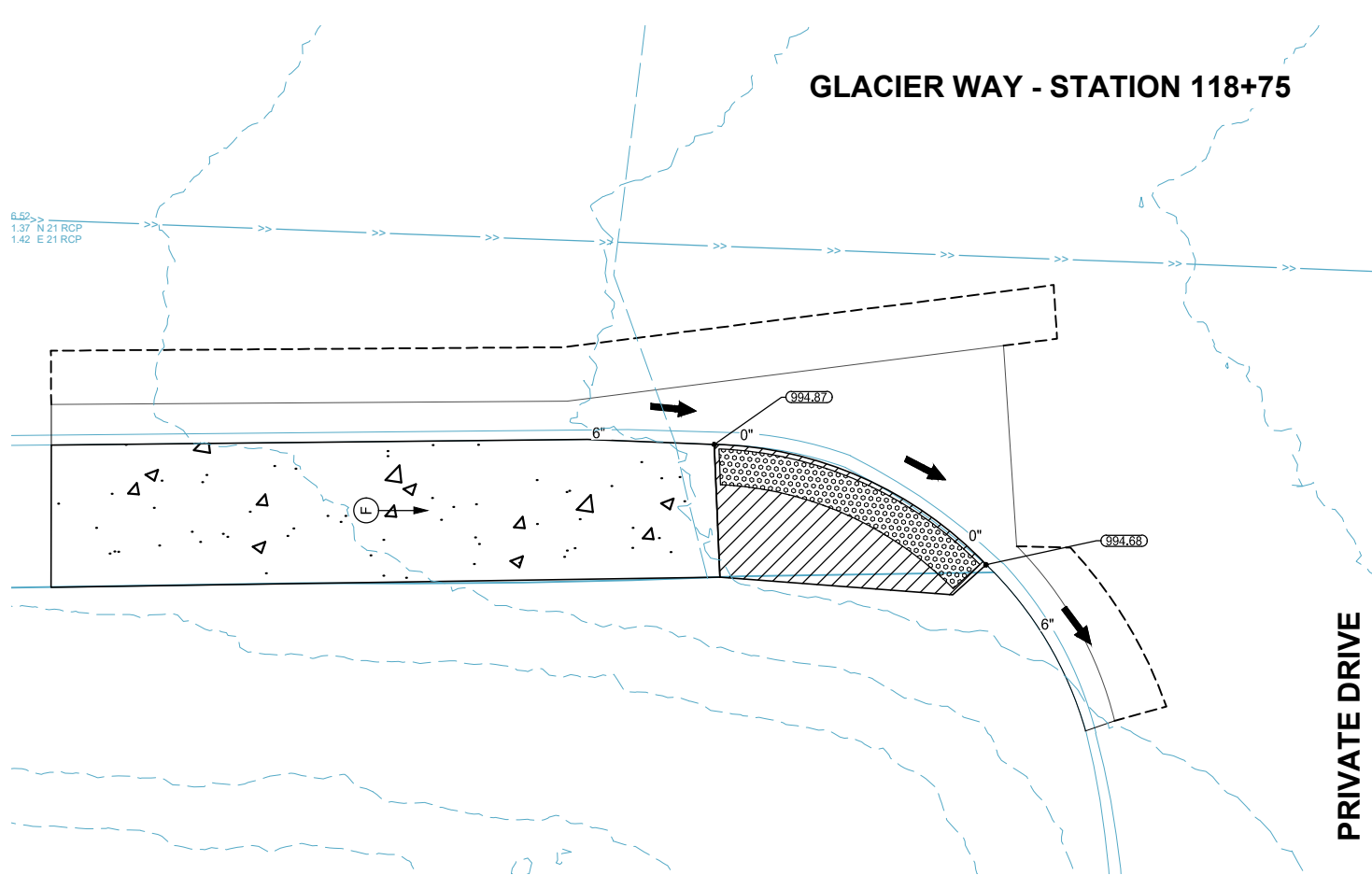
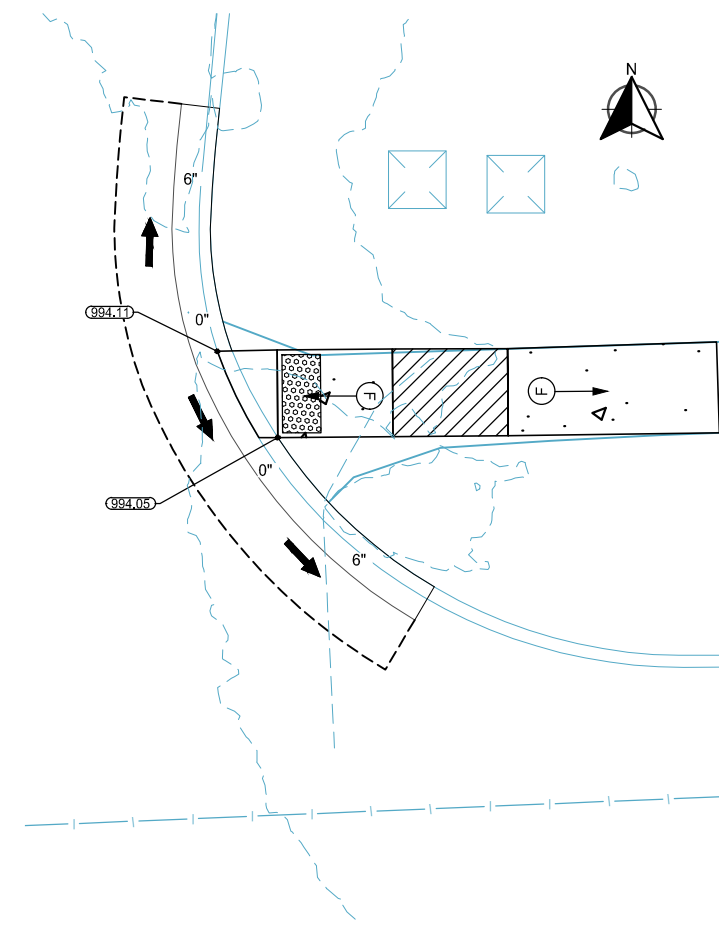
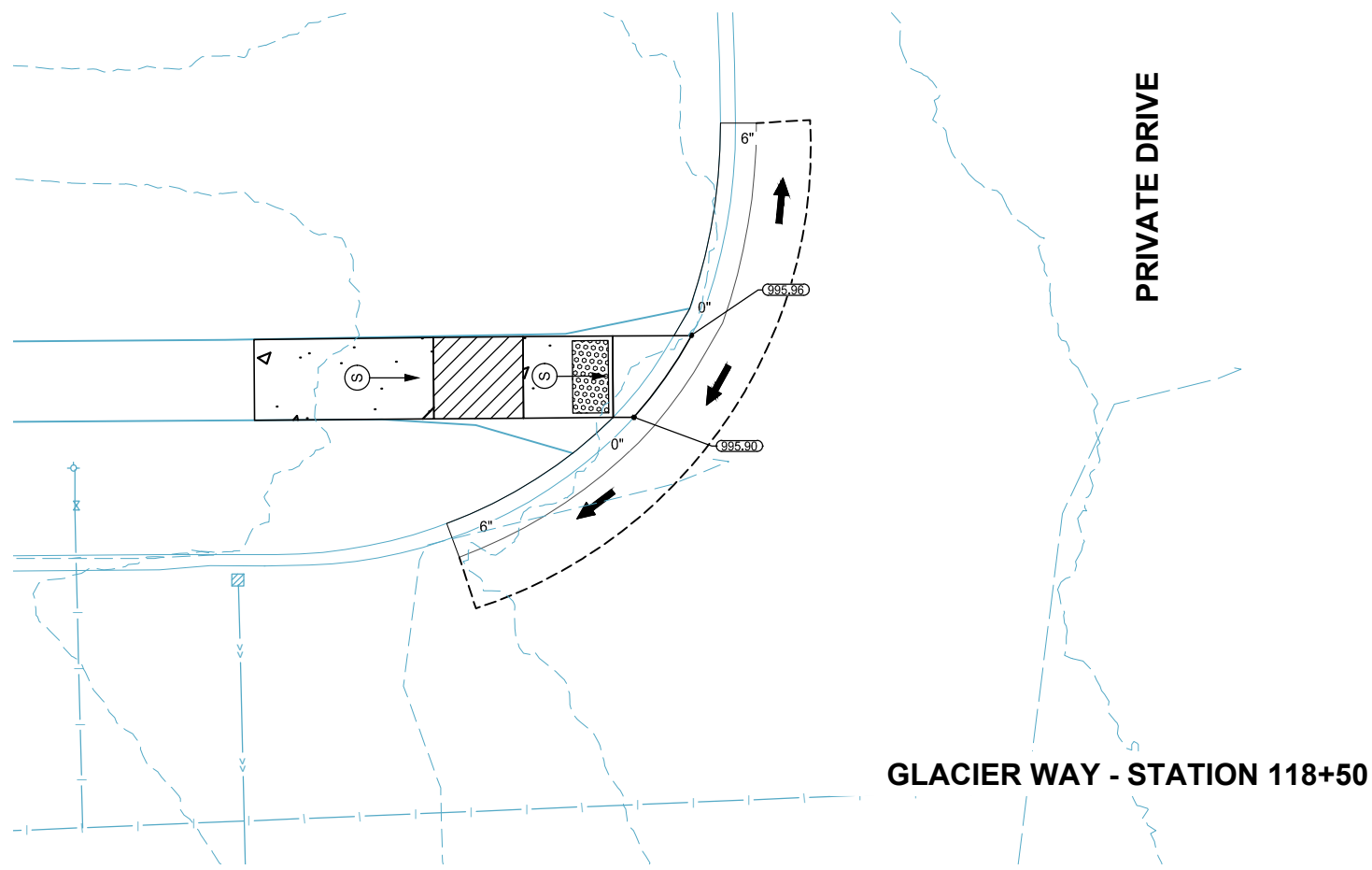
**2025 STREET REHABILITATION PROJECT
CITY OF LAKEVILLE**

CLIENT PROJECT NO.
25-02

WSB PROJECT NO.
026423-000

SHEET
26 OF 61

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wsb

SCALE: AS SHOWN
PLAN BY: EKM
EKM

DESIGN BY: EKM
CHECK BY: JAO

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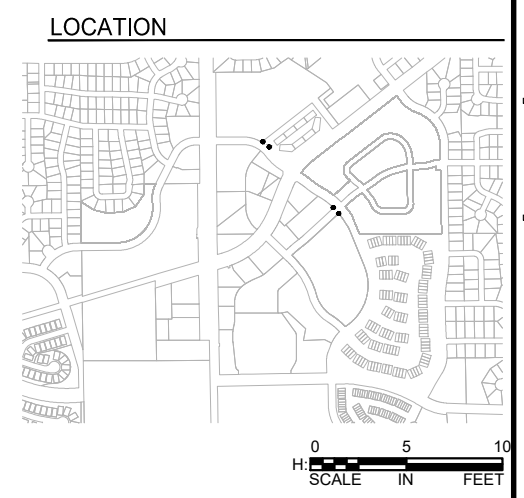
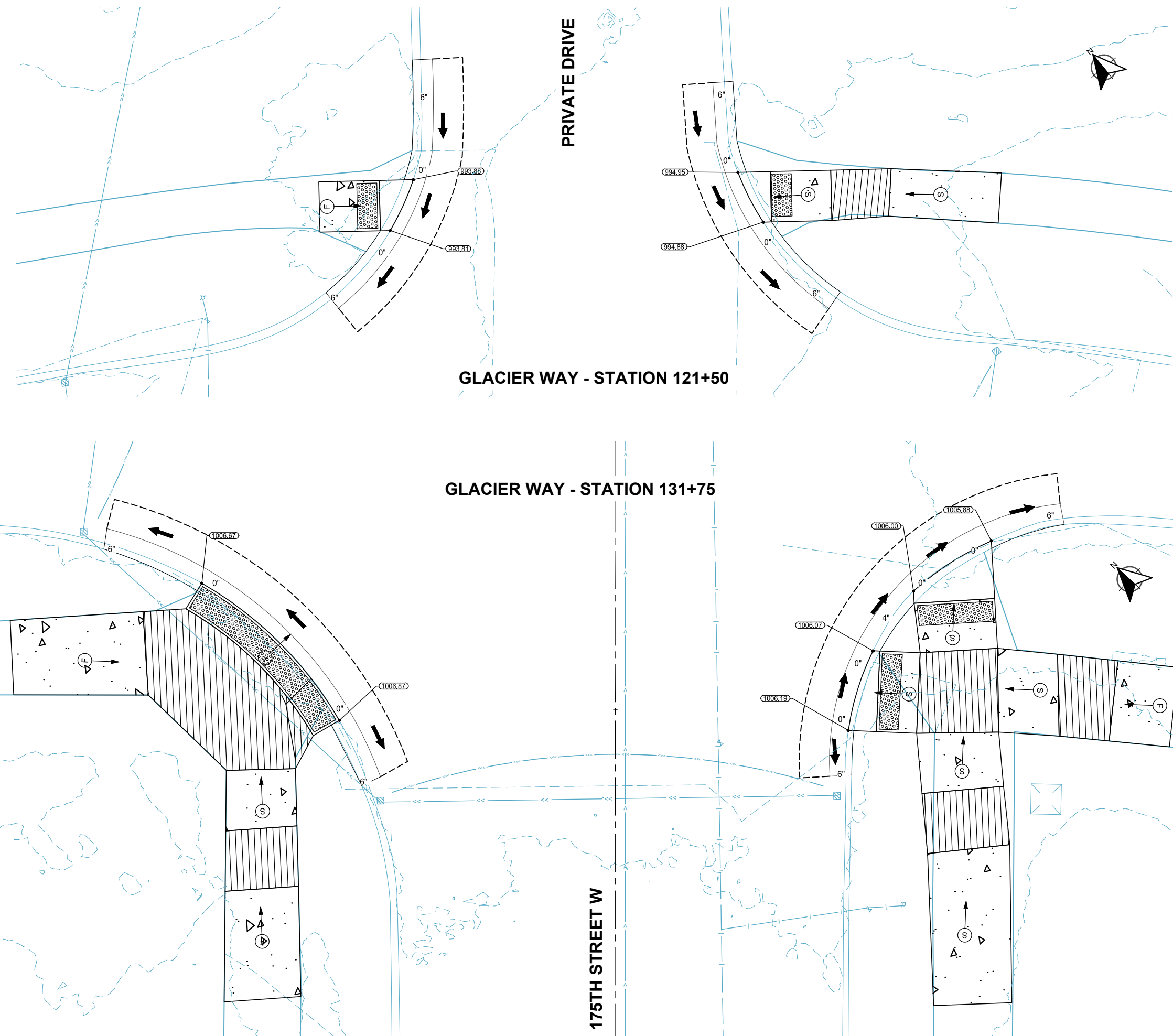
JEFFREY A. OLIVER
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PEDESTRIAN RAMP PLANS


2025 STREET REHABILITATION PROJECT
CITY OF LAKEVILLE

CLIENT PROJECT NO. 25-02
WSB PROJECT NO. 026423-000
SHEET 27 OF 61

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SCALE: AS SHOWN PLAN BY: EKM
 DESIGN BY: EKM CHECK BY: JAO

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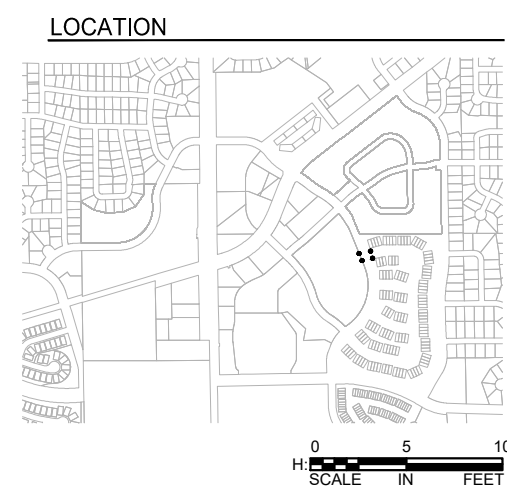
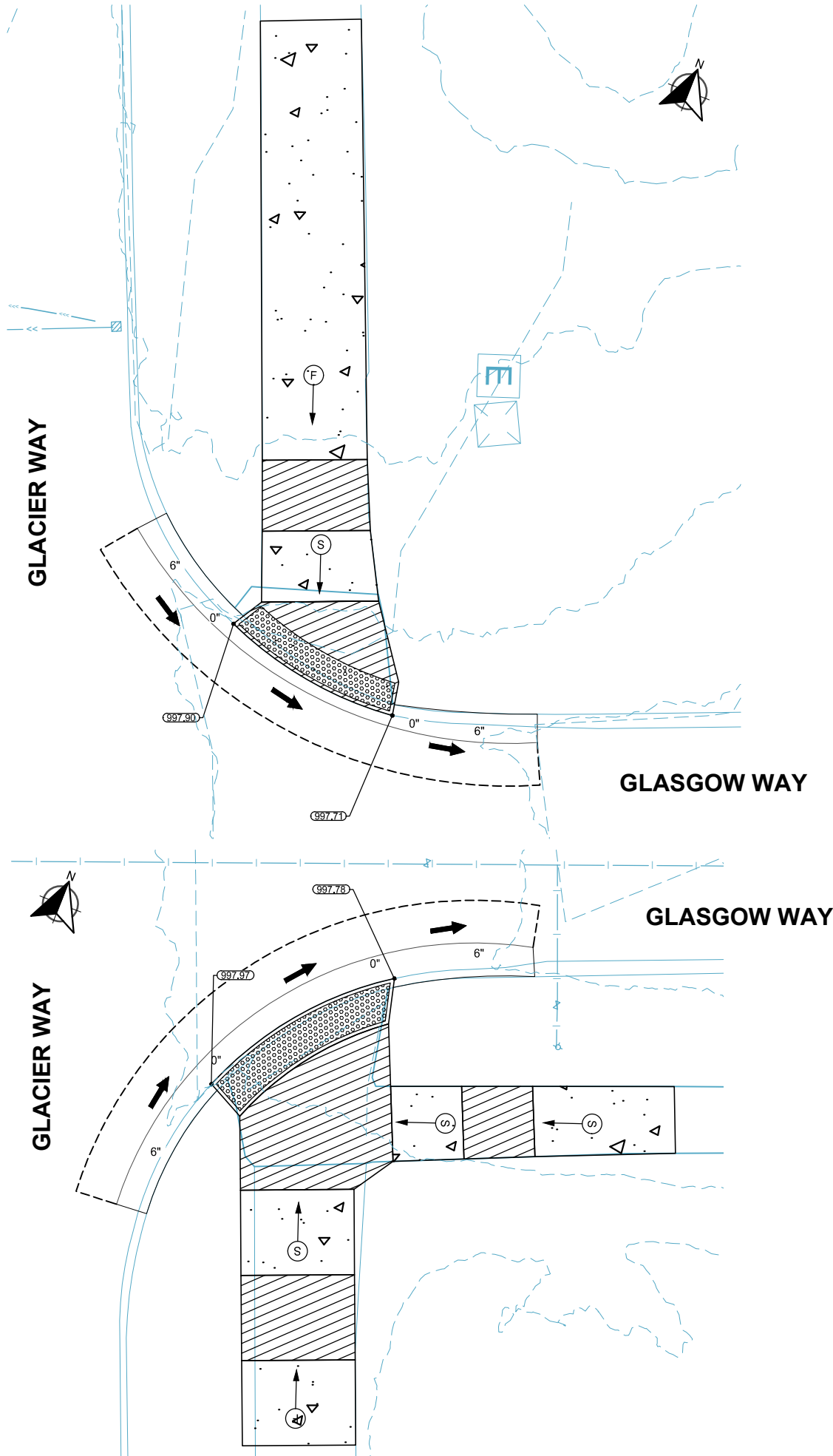
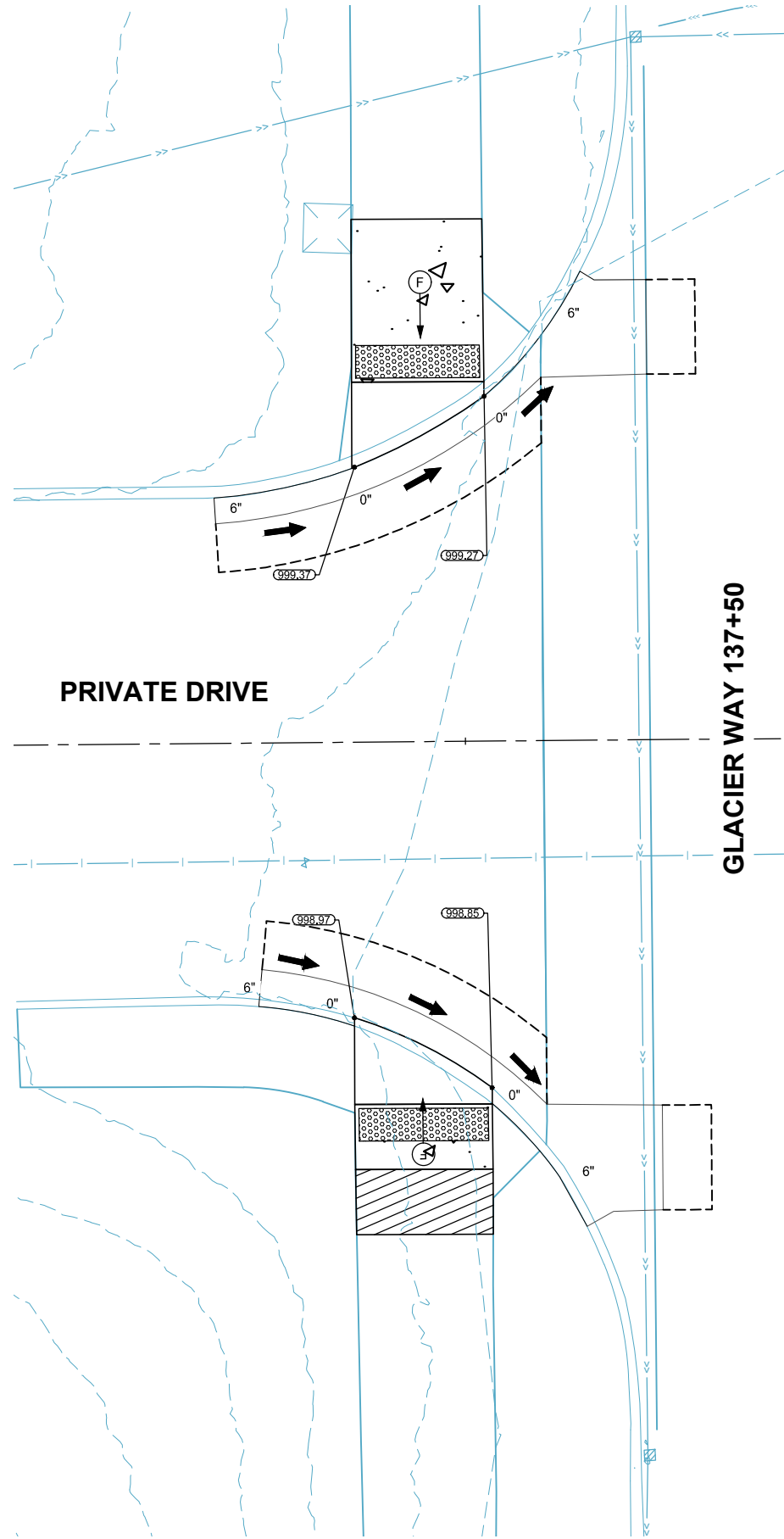
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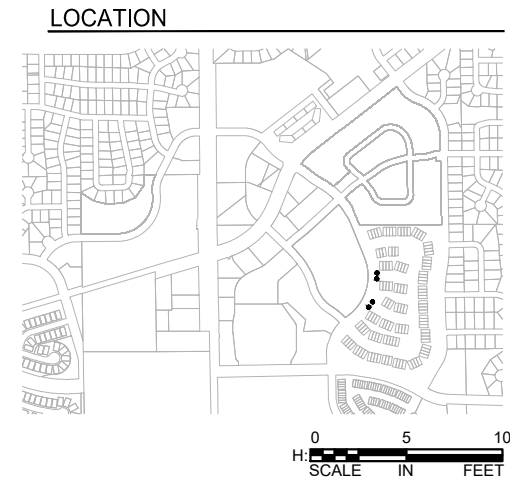
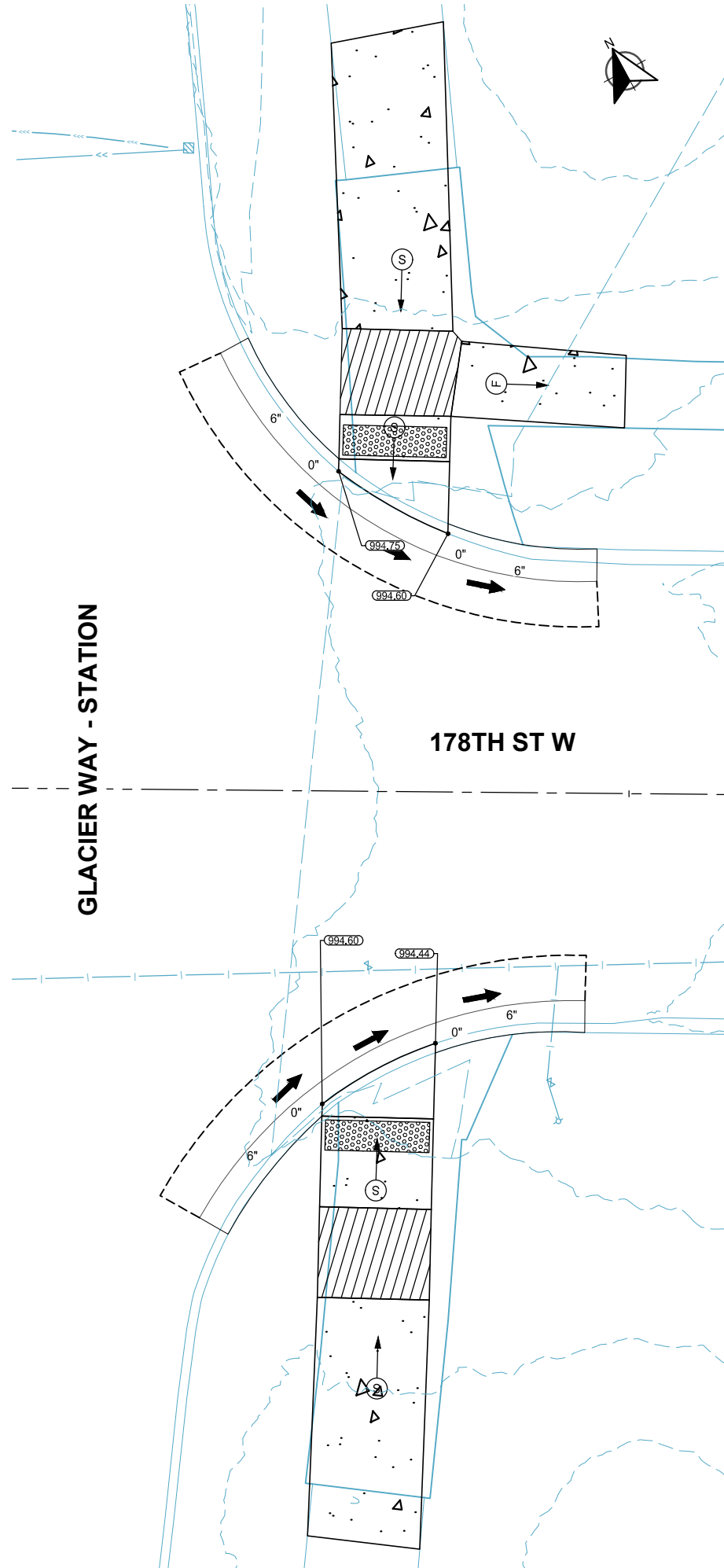
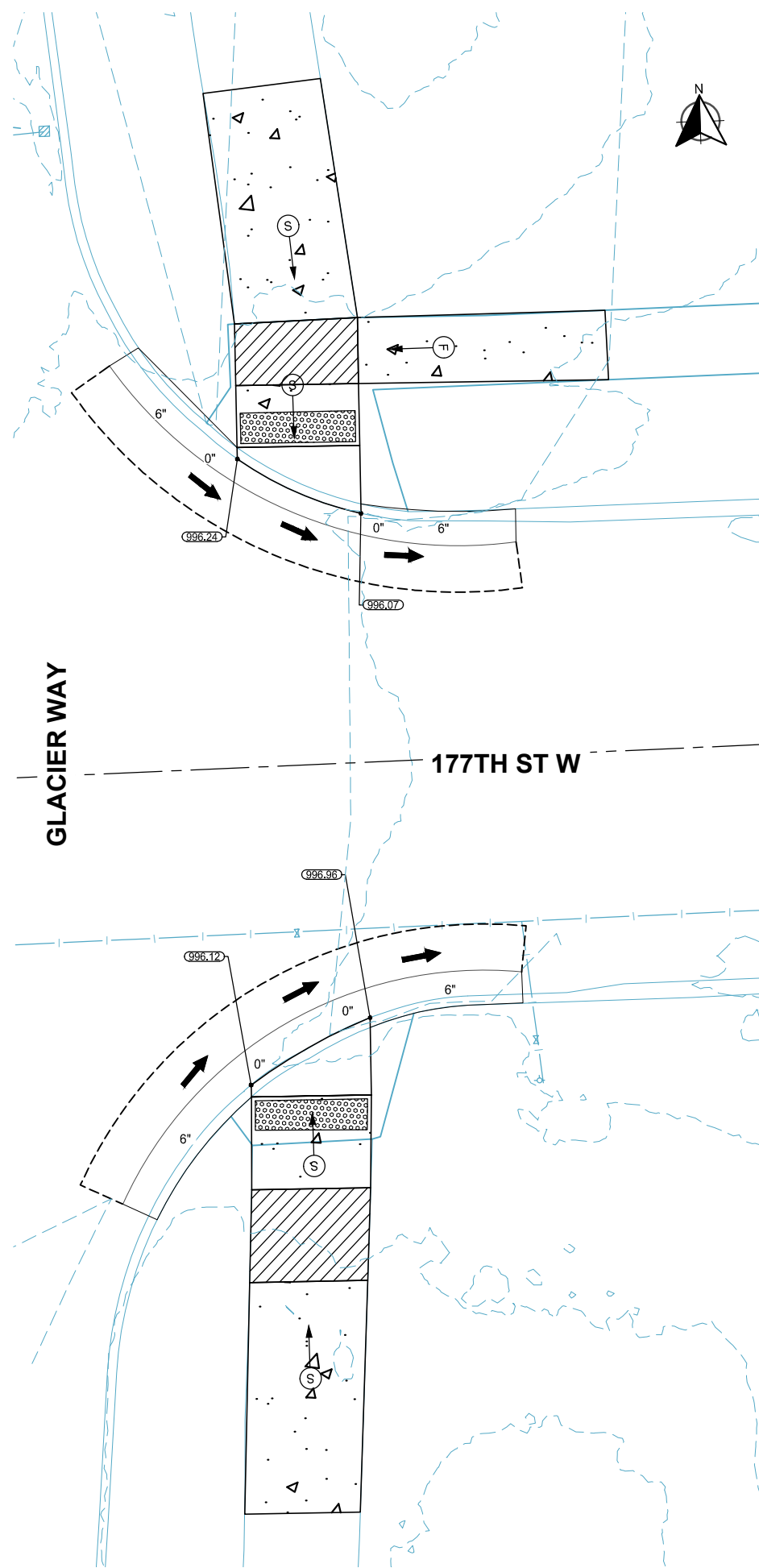
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CITY OF LAKEVILLE**

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



PEDESTRIAN RAMP PLANS

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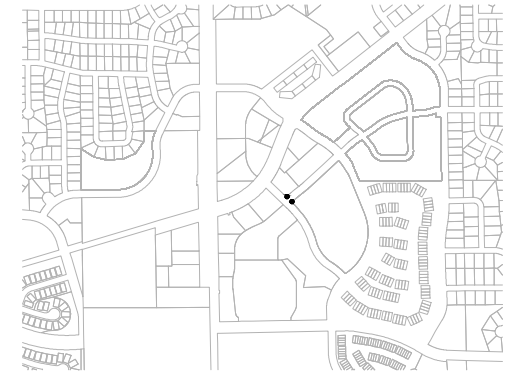
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LEGEND

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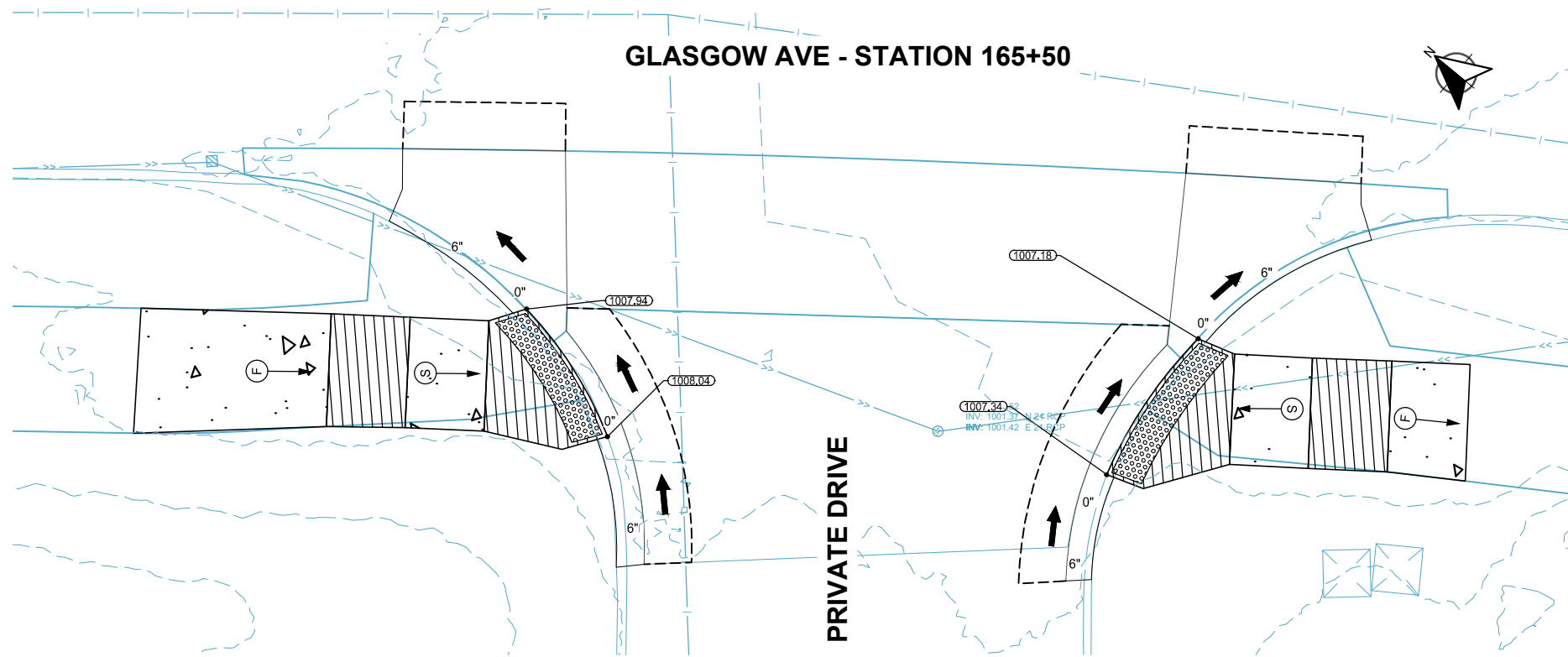
CLIENT PROJECT NO.
25-02

WSB PROJECT NO.
026423-000

SHEET
31 OF 61

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GLASGOW AVE - STATION 165+50

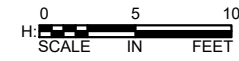
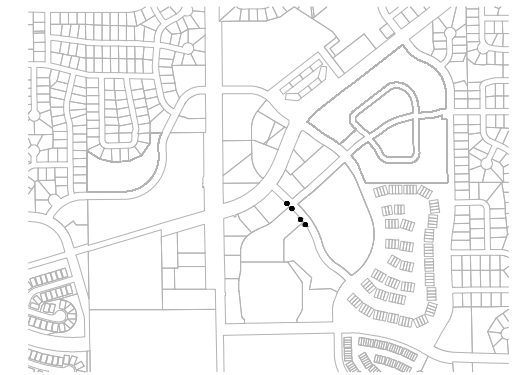


GLASGOW AVE

175TH ST W



LOCATION



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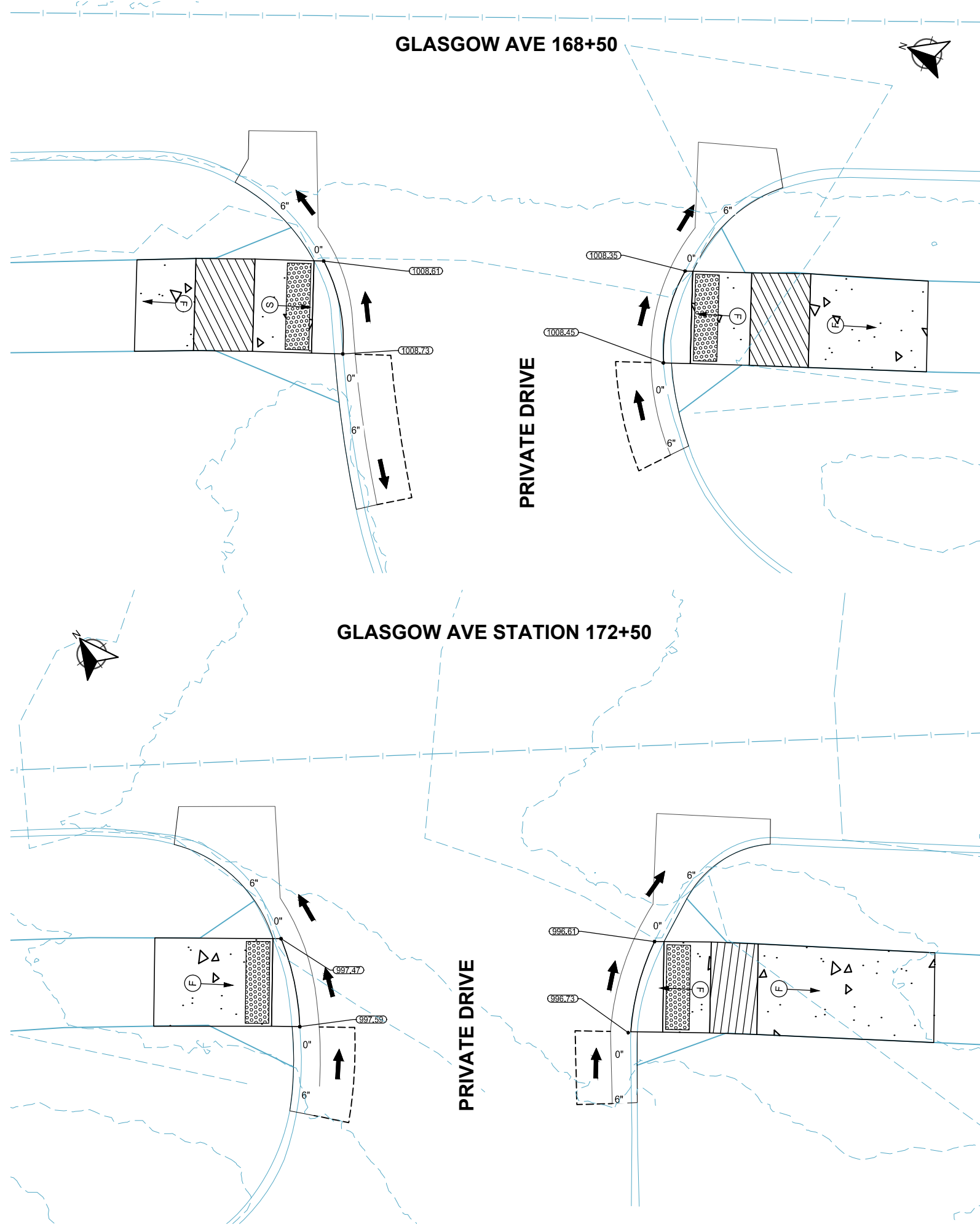
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SHEET 32 OF 61

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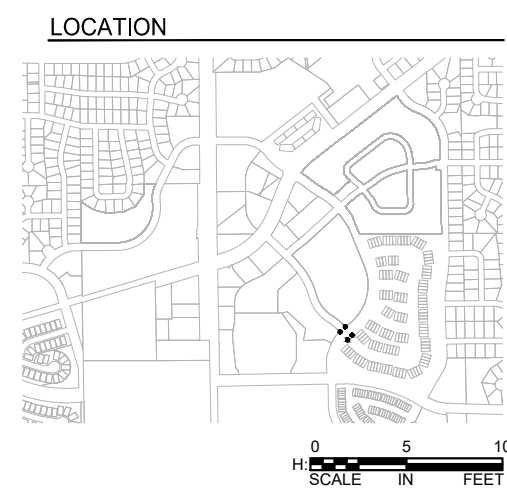
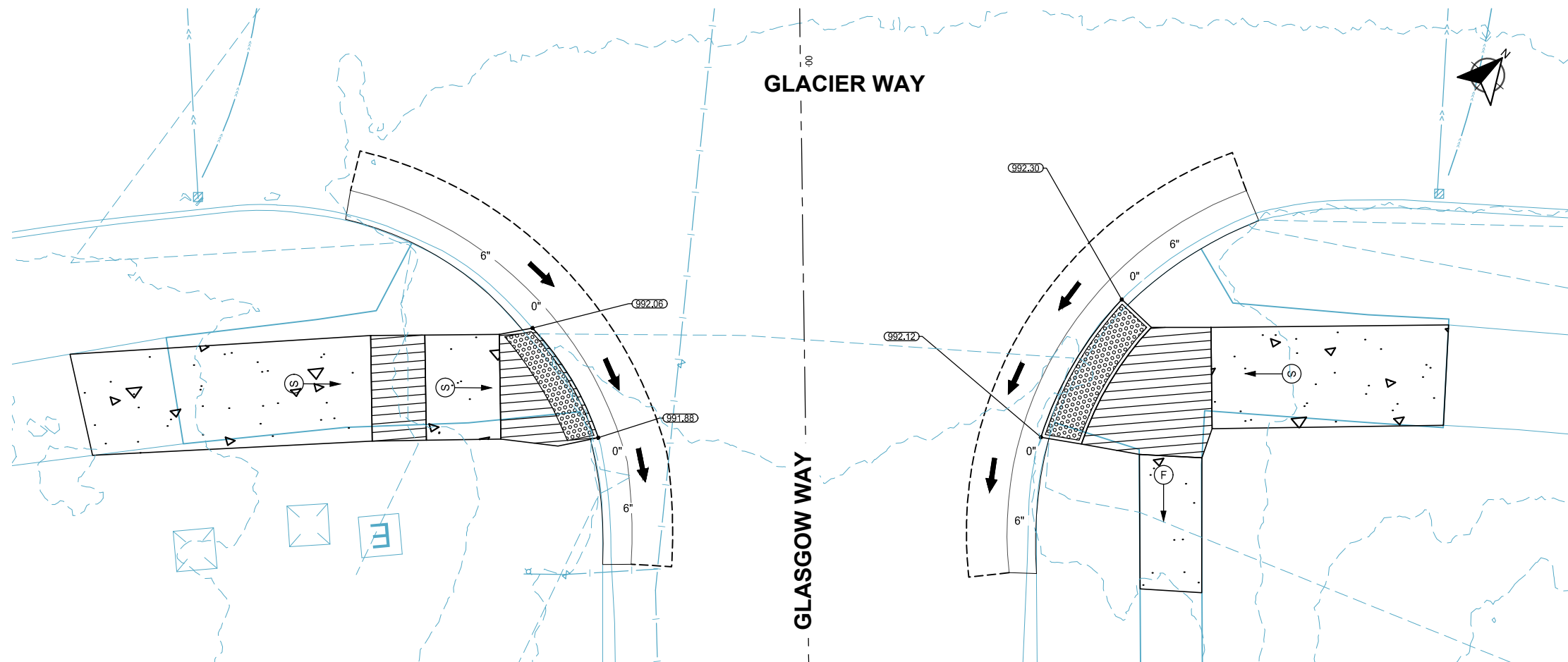
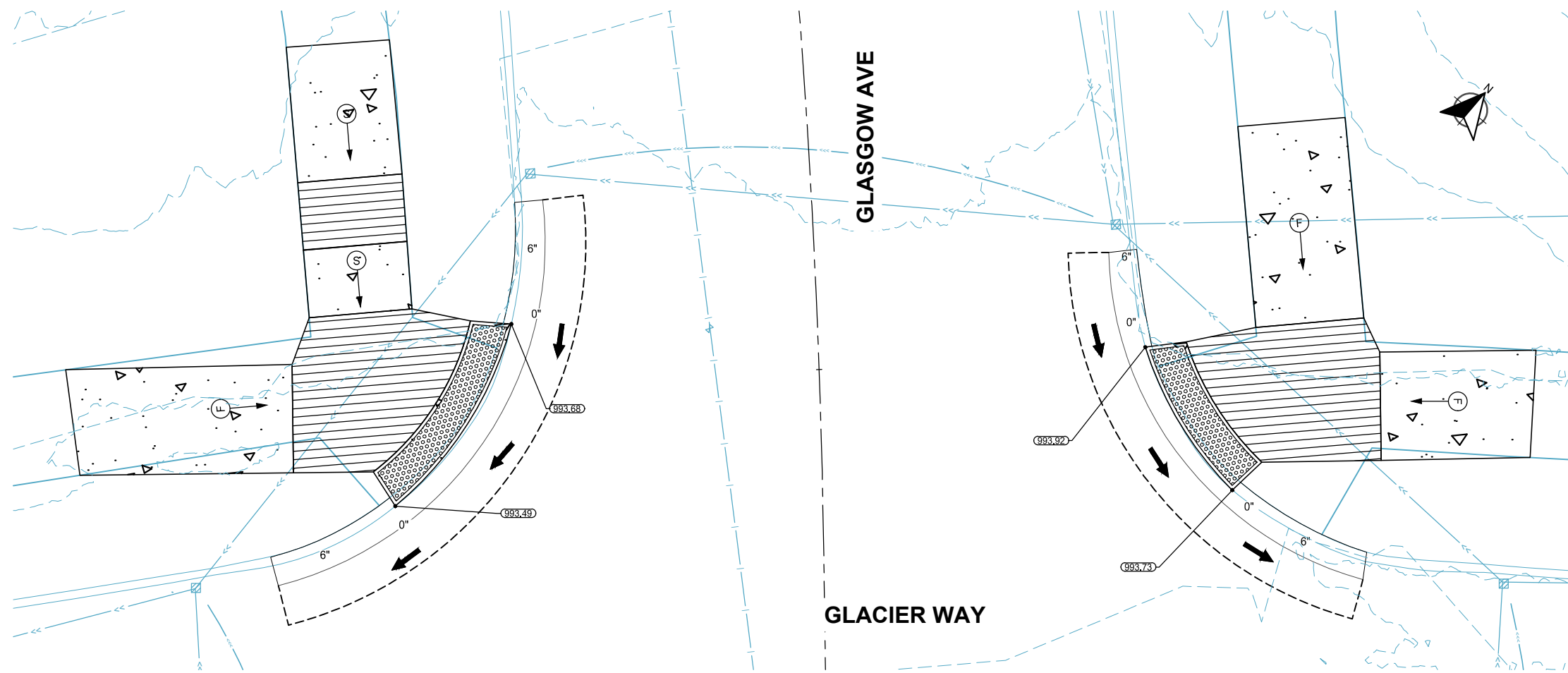
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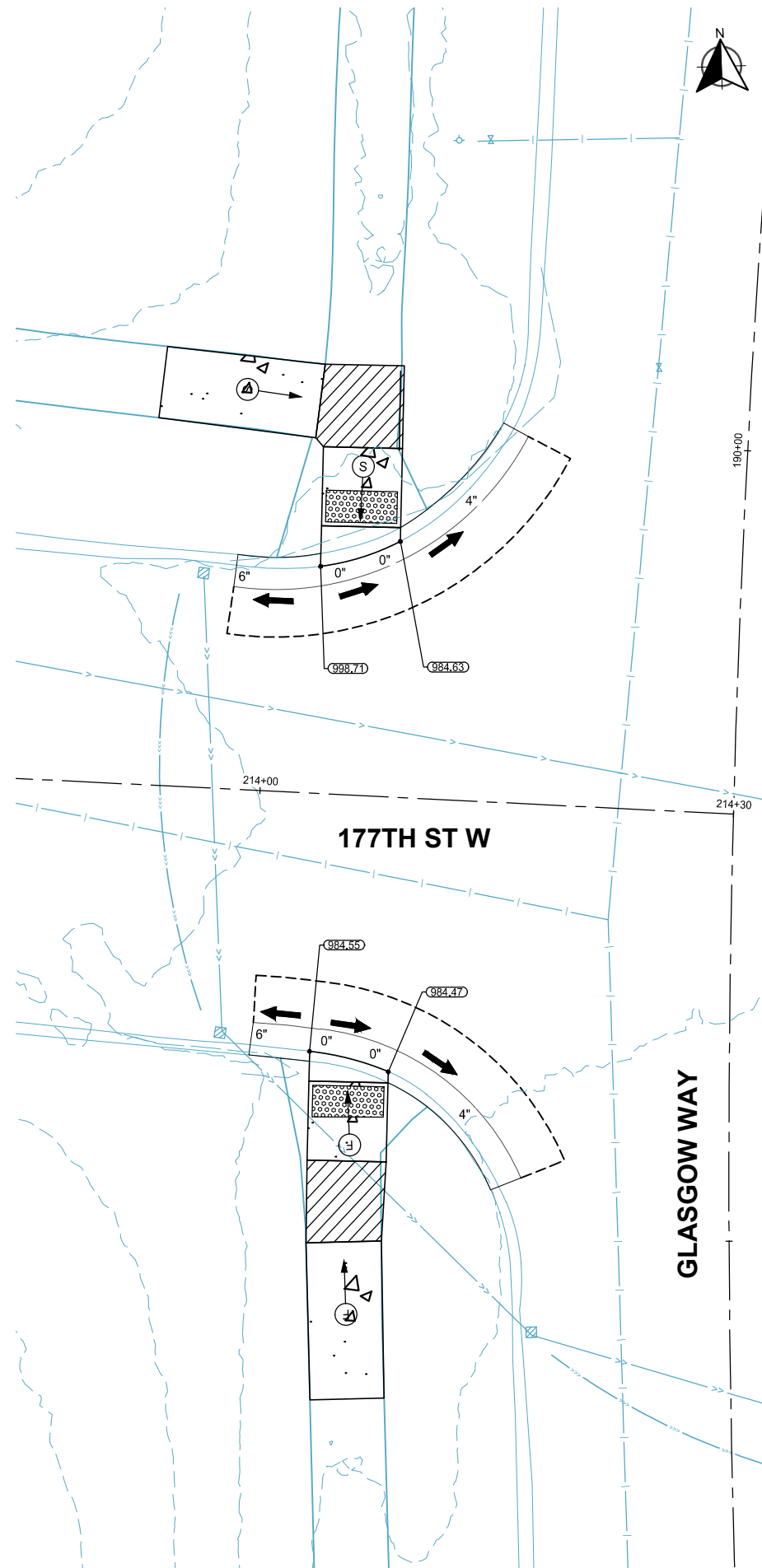
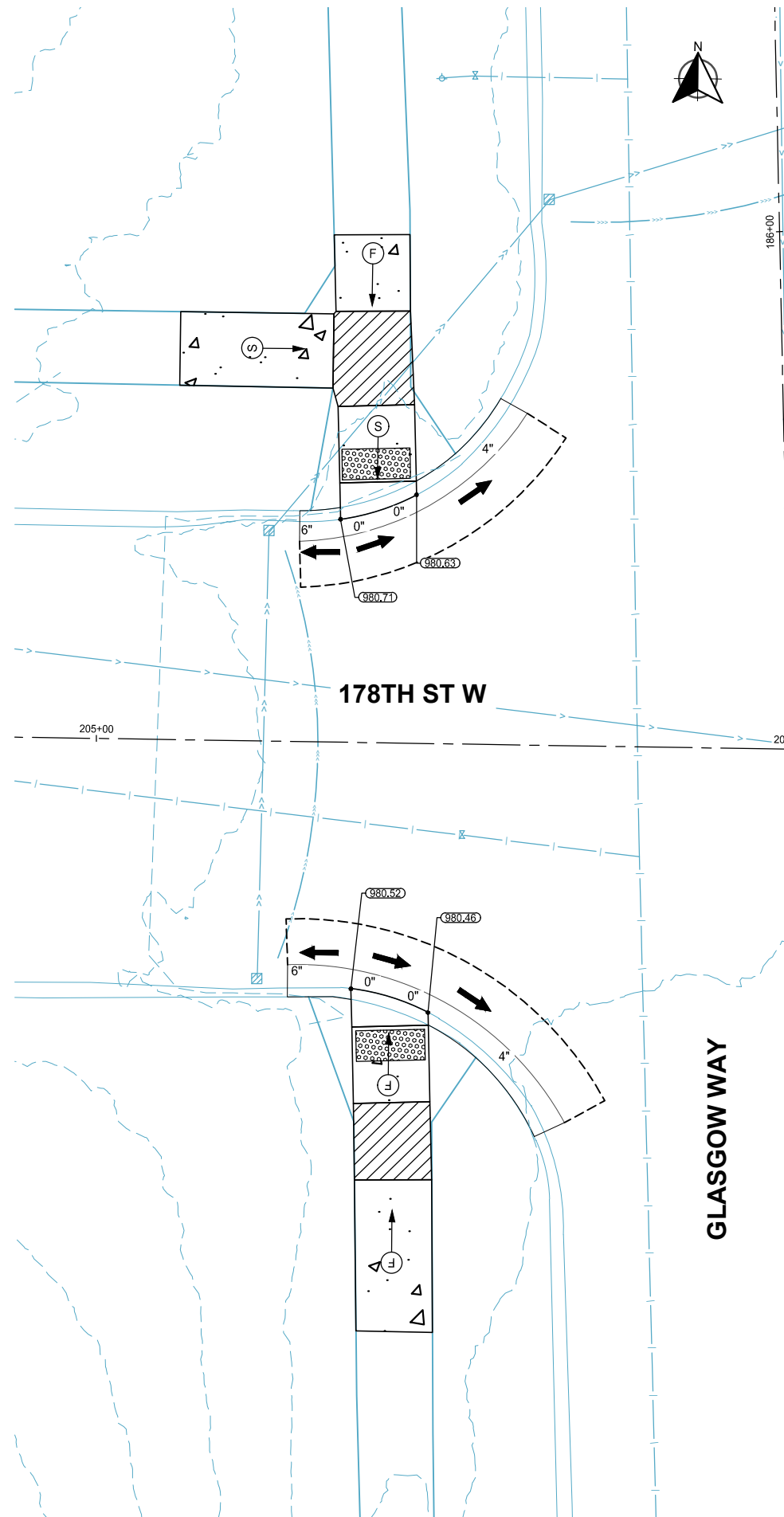
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








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LOCATION



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 PLAN BY: EKM
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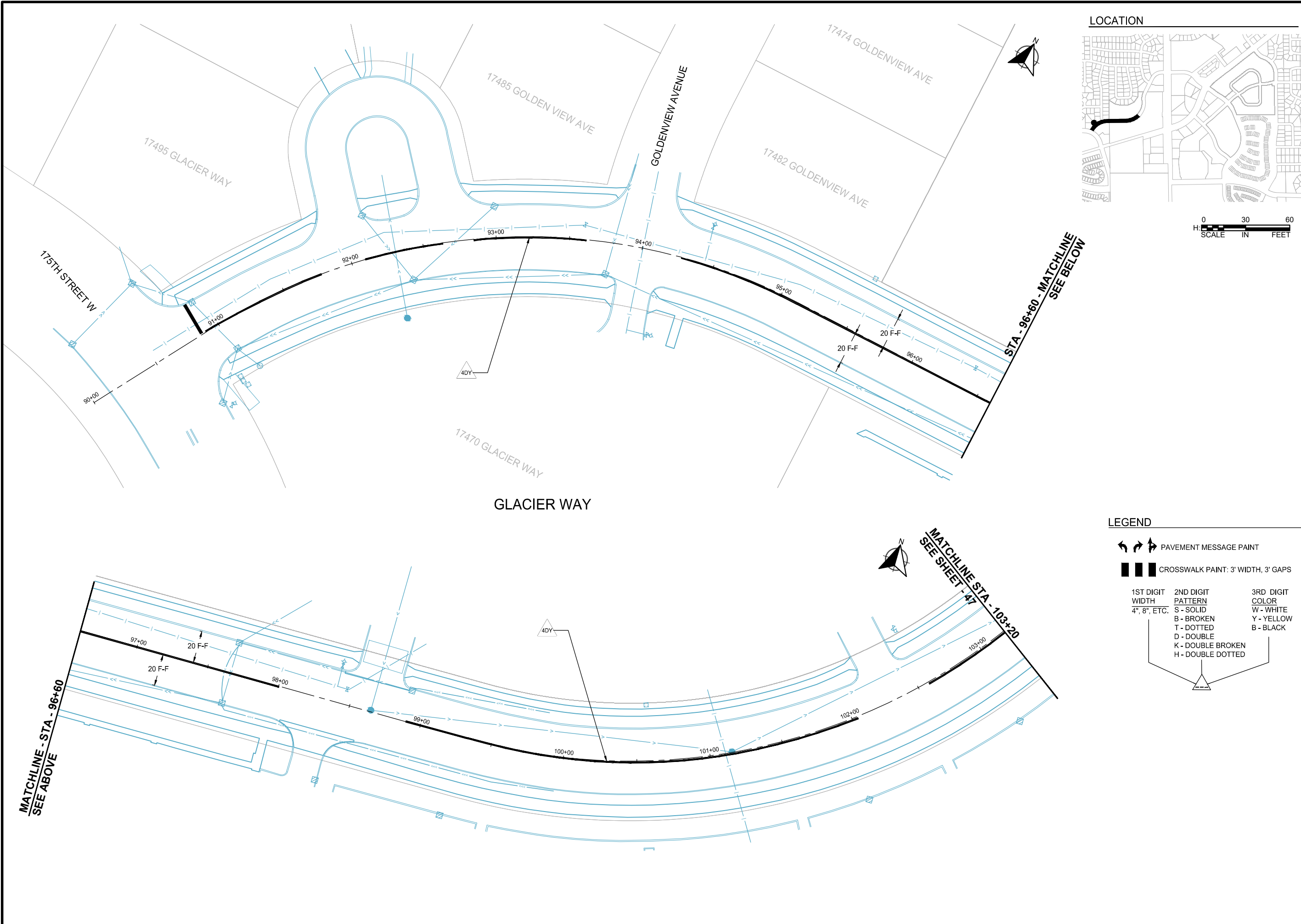
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CLIENT PROJECT NO.
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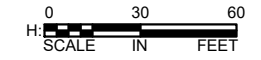
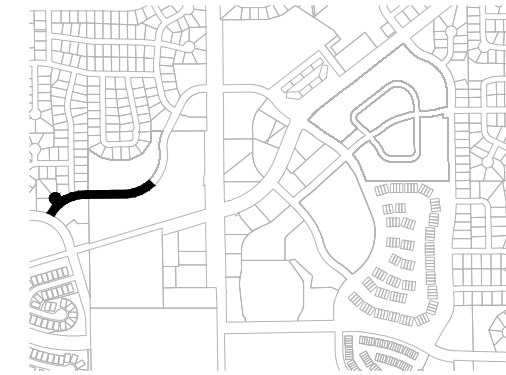
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LOCATION




SCALE: AS SHOWN
 PLAN BY: EKM
 EKM

DESIGN BY: EKM
 CHECK BY: JAO



NO.	DATE	DESCRIPTION

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.


 JEFFREY A. OLIVER
 DATE: 02-03-2025 LIC. NO.: 23110

SIGNING & STRIPING PLANS

LEGEND

-  PAVEMENT MESSAGE PAINT
 -  CROSSWALK PAINT: 3' WIDTH, 3' GAPS
- | 1ST DIGIT
WIDTH
4", 8", ETC. | 2ND DIGIT
PATTERN | 3RD DIGIT
COLOR |
|------------------------------------|----------------------|--------------------|
| S | SOLID | W - WHITE |
| B | BROKEN | Y - YELLOW |
| T | DOTTED | B - BLACK |
| D | DOUBLE | |
| K | DOUBLE BROKEN | |
| H | DOUBLE DOTTED | |

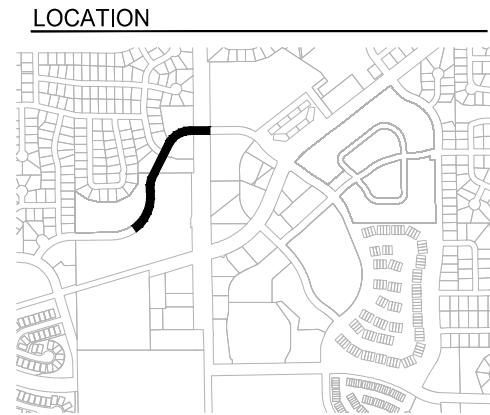
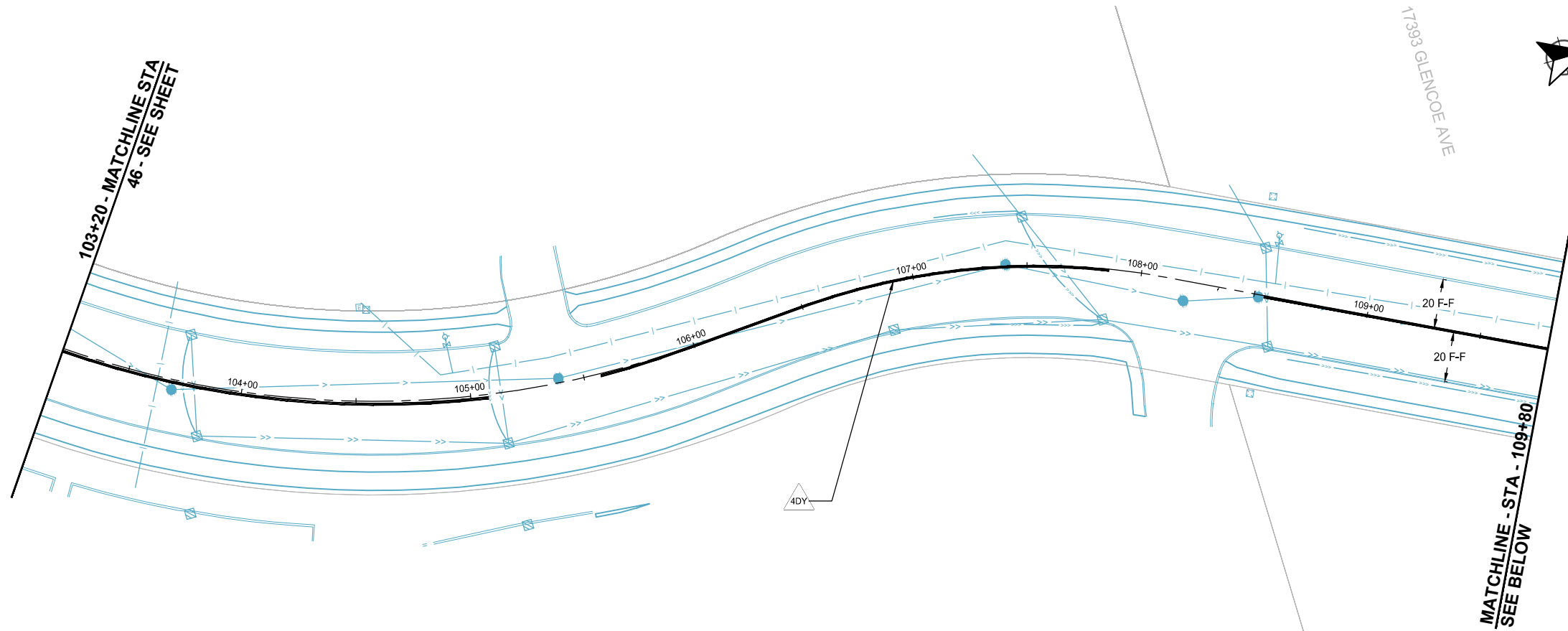
2025 STREET REHABILITATION PROJECT
 CITY OF LAKEVILLE

CLIENT PROJECT NO.
25-02

WSB PROJECT NO.
026423-000

SHEET
46 OF 61

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wsb **Lakeville**

SCALE: AS SHOWN
 PLAN BY: EKM
 EKM

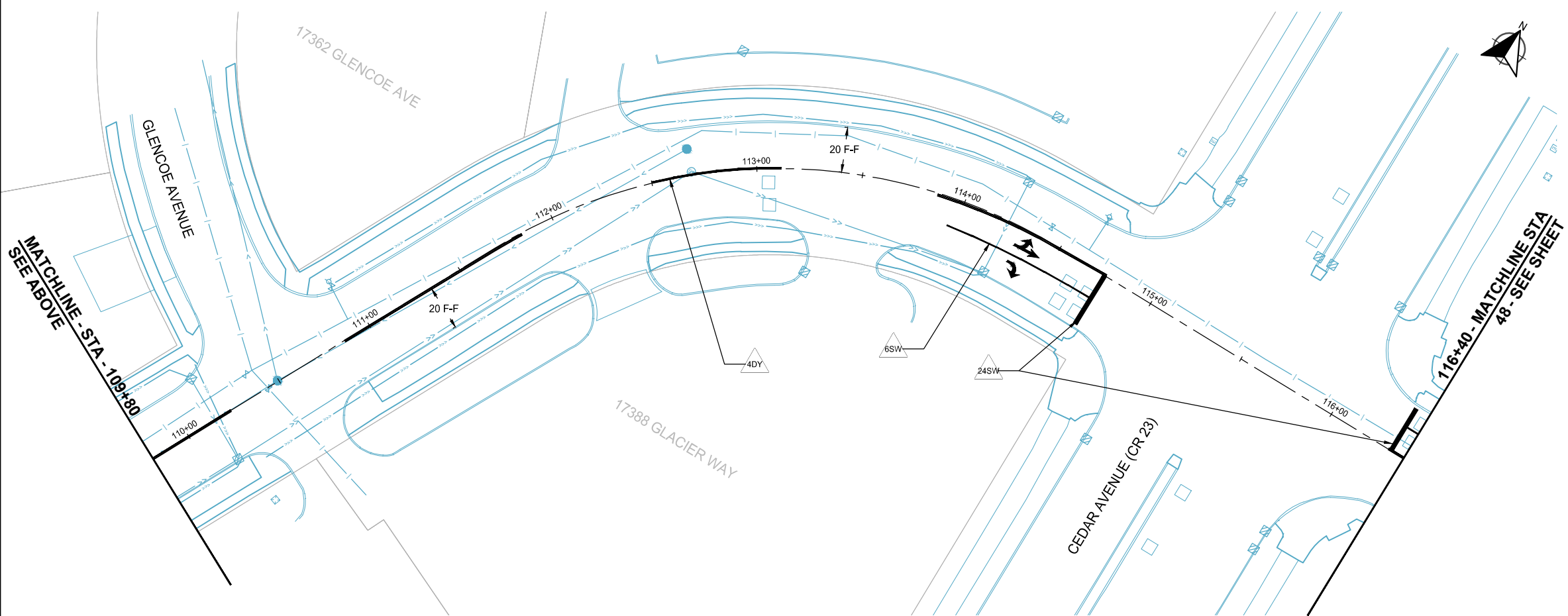
DESIGN BY: EKM
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 JAO

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Jeffrey A. Oliver
 JEFFREY A. OLIVER
 DATE: 02-03-2025 LIC. NO.: 23110

GLACIER WAY



LEGEND

PAVEMENT MESSAGE PAINT
 CROSSWALK PAINT: 3' WIDTH, 3' GAPS

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

SIGNING & STRIPING PLANS

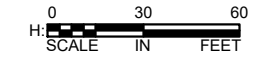
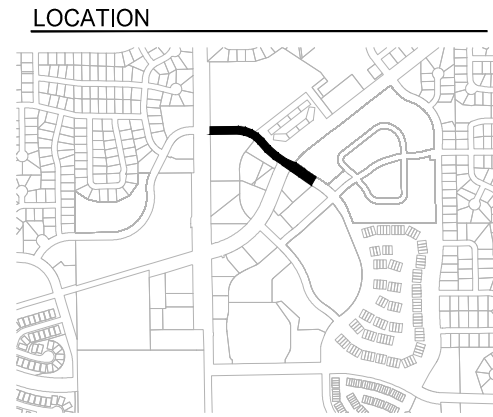
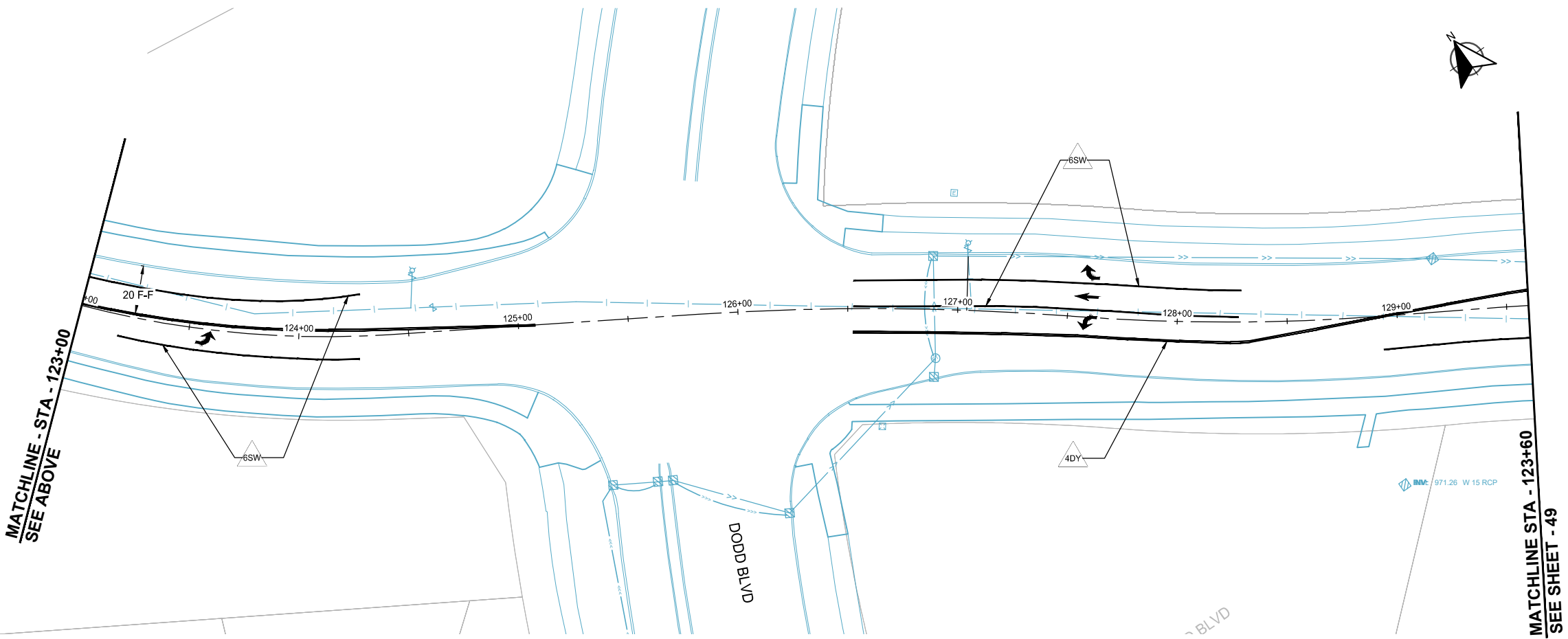
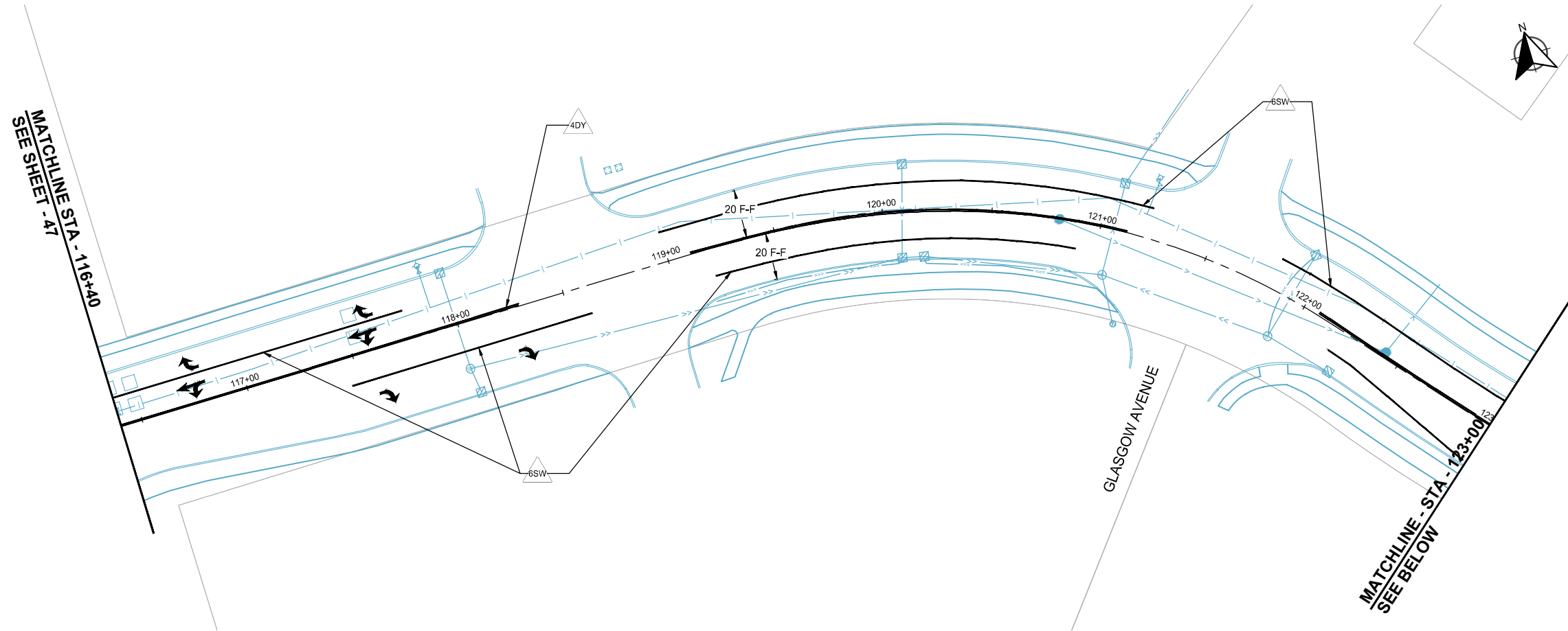
**2025 STREET REHABILITATION PROJECT
 CITY OF LAKEVILLE**

CLIENT PROJECT NO.
25-02

WSB PROJECT NO.
026423-000

SHEET
47 OF 61

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LEGEND

- PAVEMENT MESSAGE PAINT
 - CROSSWALK PAINT: 3' WIDTH, 3' GAPS
- | | | |
|------------------------------------|---|--|
| 1ST DIGIT
WIDTH
4", 8", ETC. | 2ND DIGIT
PATTERN
S - SOLID
B - BROKEN
T - DOTTED
D - DOUBLE
K - DOUBLE BROKEN
H - DOUBLE DOTTED | 3RD DIGIT
COLOR
W - WHITE
Y - YELLOW
B - BLACK |
|------------------------------------|---|--|



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PLAN BY: EKM

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CHECK BY: JAO

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JEFFREY A. OLIVER
DATE: 02-03-2025 LIC. NO.: 23110

SIGNING & STRIPING PLANS

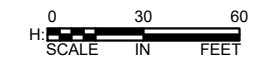
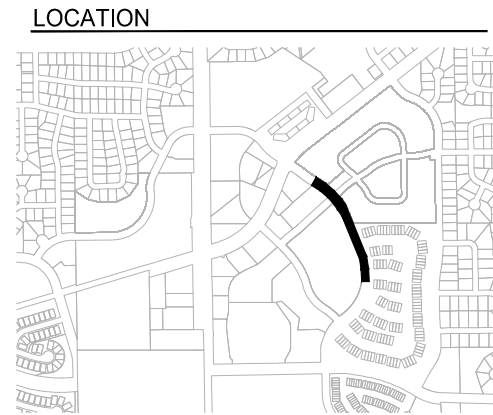
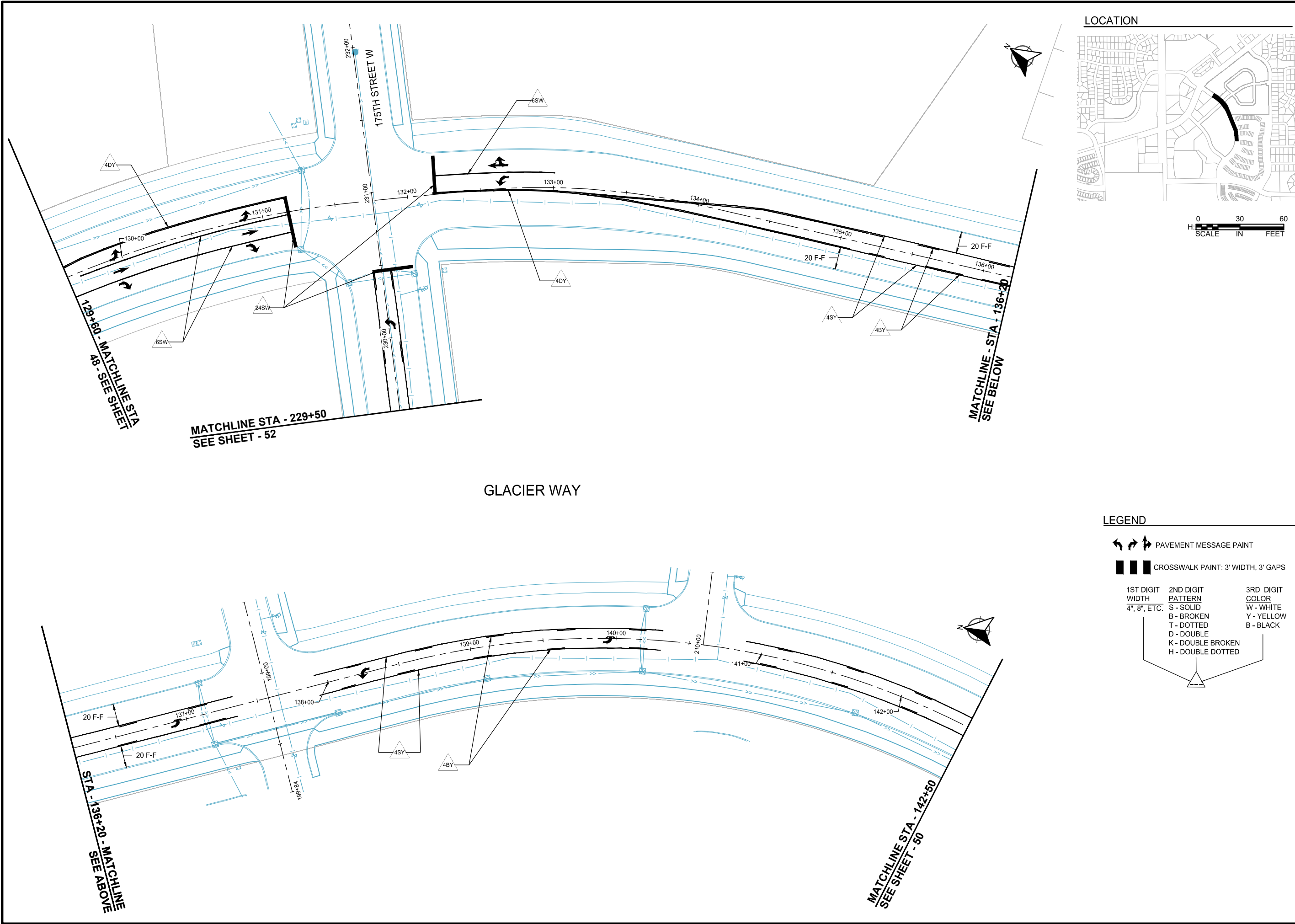
2025 STREET REHABILITATION PROJECT
CITY OF LAKEVILLE

CLIENT PROJECT NO.
25-02

WSB PROJECT NO.
026423-000

SHEET
48 OF 61

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Jeffrey A. Oliver
 JEFFREY A. OLIVER
 DATE: 02-03-2025 LIC. NO.: 23110

SIGNING & STRIPING PLANS

LEGEND

- PAVEMENT MESSAGE PAINT
- CROSSWALK PAINT: 3' WIDTH, 3' GAPS

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

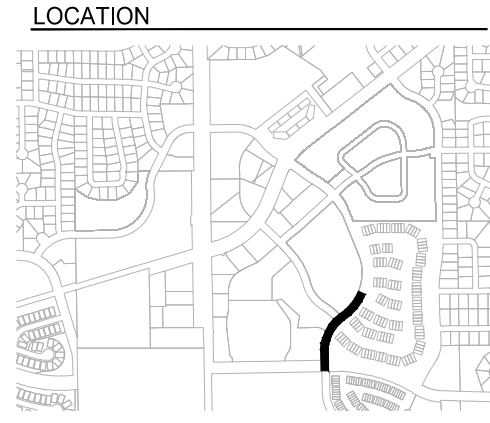
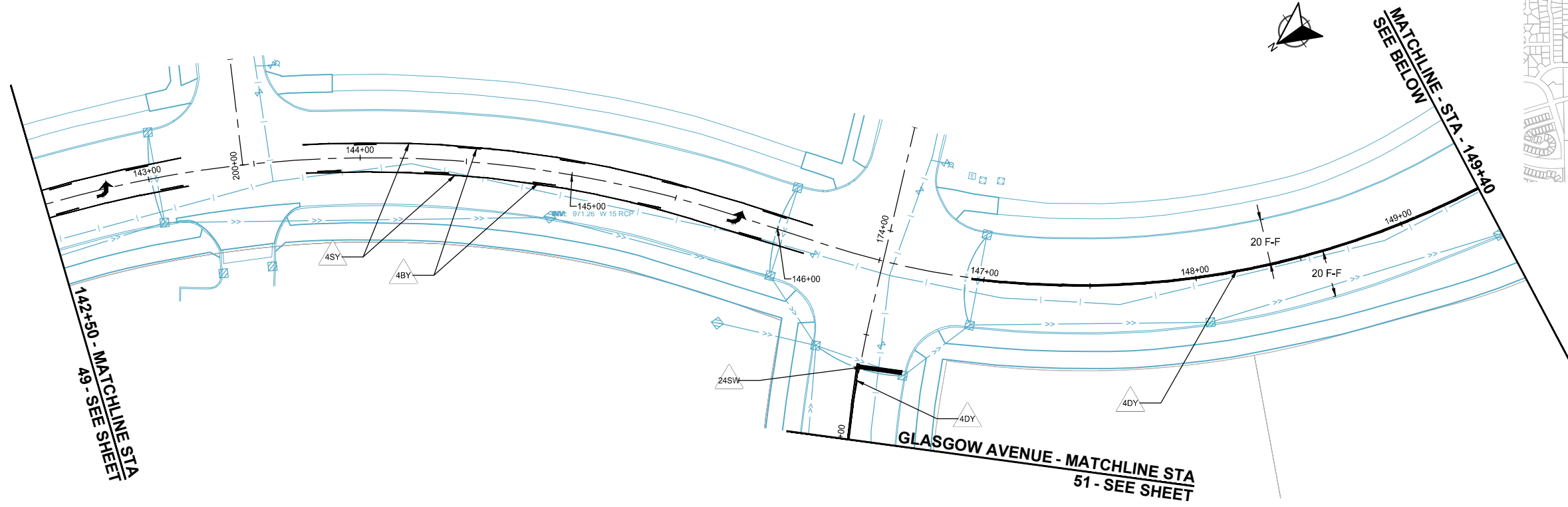
**2025 STREET REHABILITATION PROJECT
 CITY OF LAKEVILLE**

CLIENT PROJECT NO. 25-02

WSB PROJECT NO. 026423-000

SHEET 49 OF 61

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wsb Lakeville

SCALE: AS SHOWN
 PLAN BY: EKM
 EKM

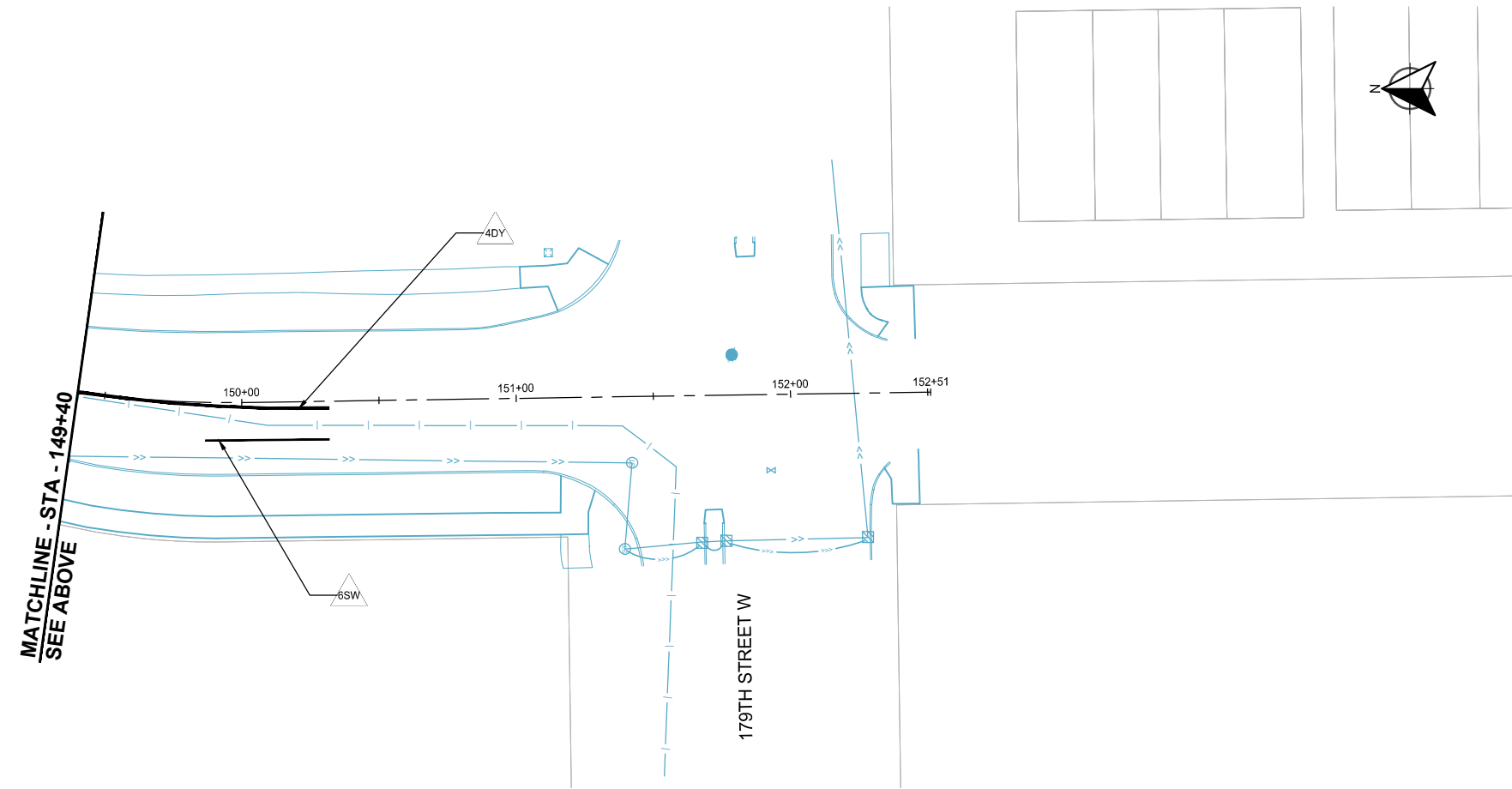
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 CHECK BY: JAO
 JAO

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Jeffrey A. Oliver
 JEFFREY A. OLIVER
 DATE: 02-03-2025 LIC. NO.: 23110

GLACIER WAY



LEGEND

- PAVEMENT MESSAGE PAINT
- CROSSWALK PAINT: 3' WIDTH, 3' GAPS

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

SIGNING & STRIPING PLANS

2025 STREET REHABILITATION PROJECT
 CITY OF LAKEVILLE

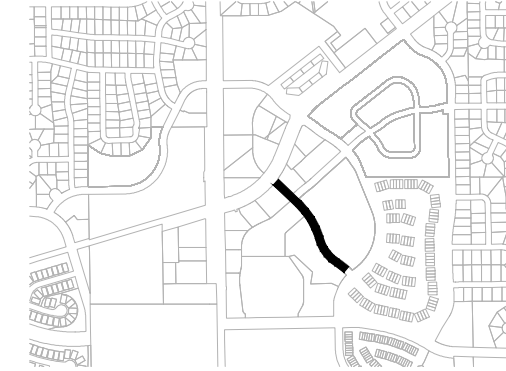
CLIENT PROJECT NO.
25-02

WSB PROJECT NO.
026423-000

SHEET
50 OF 61

MATCHLINE STA - 175TH STREET W
SEE SHEET - 52

LOCATION



SCALE: AS SHOWN
PLAN BY: EKM
EKM

DESIGN BY: EKM
CHECK BY: JAO
JAO

REVISIONS

NO.	DATE	DESCRIPTION

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Jeffrey A. Oliver
JEFFREY A. OLIVER

DATE: 02-03-2025 LIC. NO.: 23110

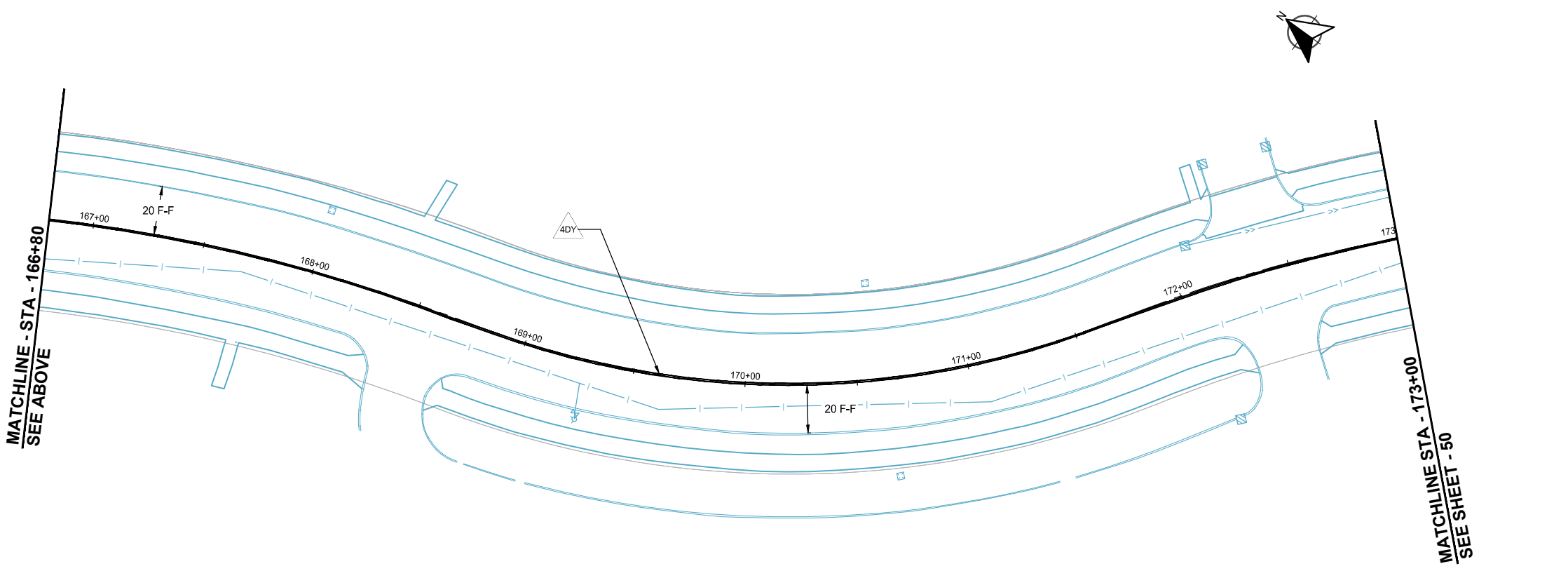
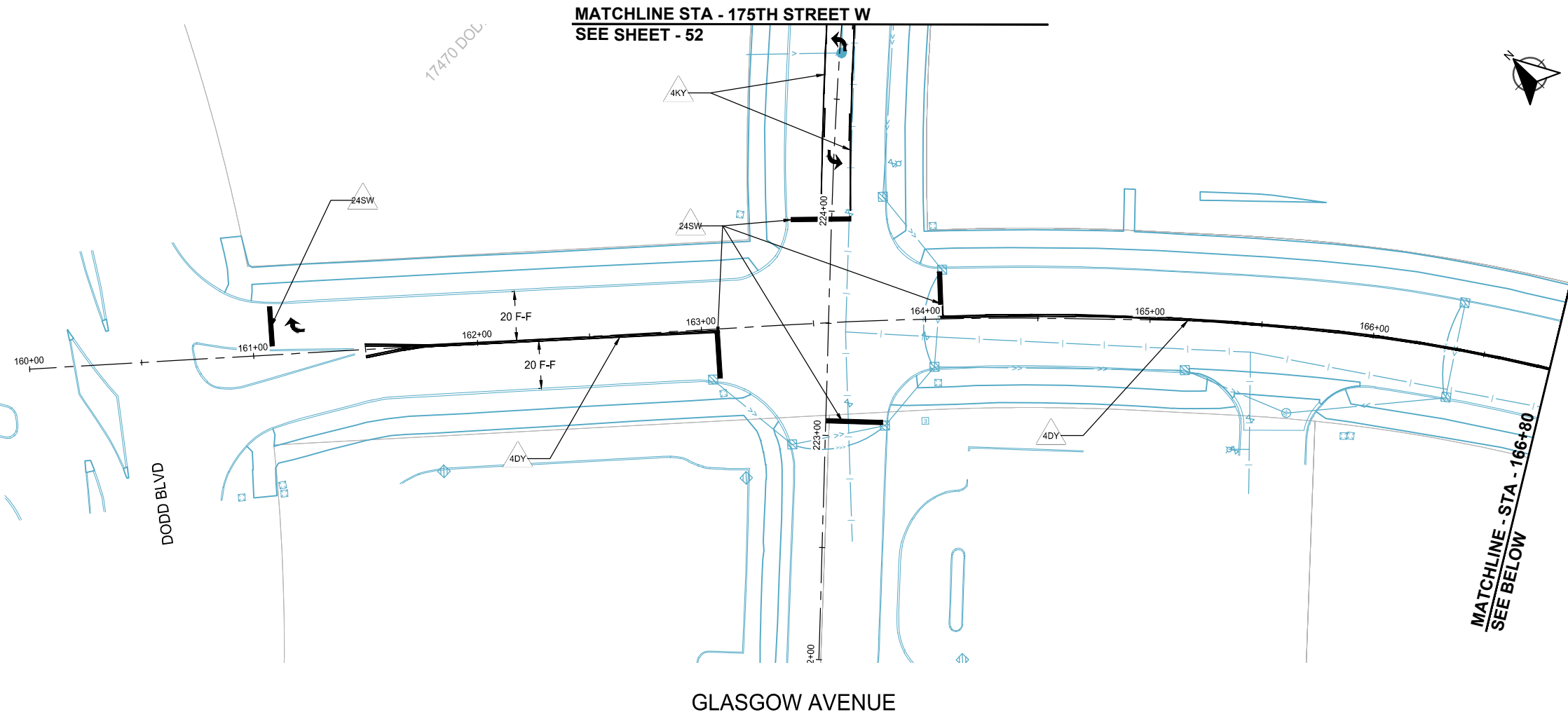
SIGNING & STRIPING PLANS

2025 STREET REHABILITATION PROJECT
CITY OF LAKEVILLE

CLIENT PROJECT NO.
25-02

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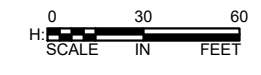
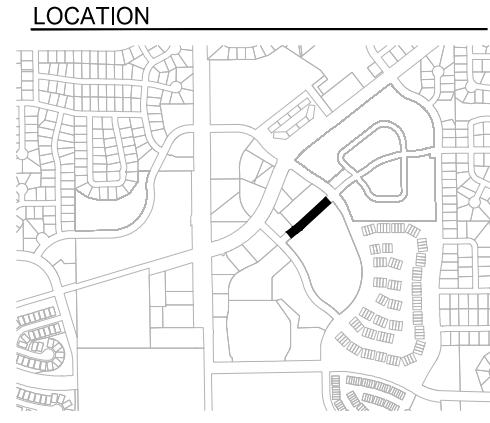
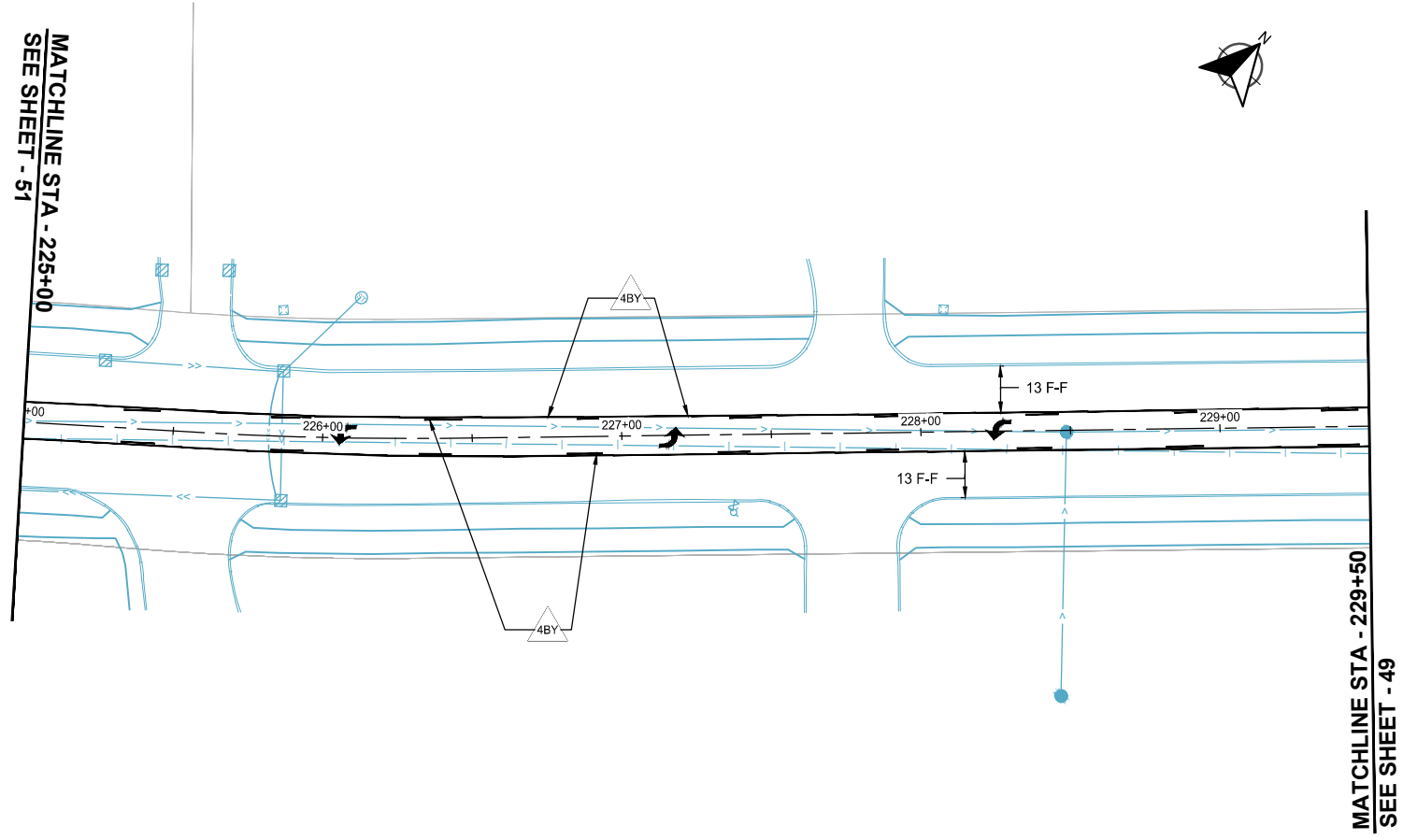


LEGEND

- PAVEMENT MESSAGE PAINT
 - CROSSWALK PAINT: 3' WIDTH, 3' GAPS
- | | | |
|------------------------------------|---|--|
| 1ST DIGIT
WIDTH
4", 8", ETC. | 2ND DIGIT
PATTERN
S - SOLID
B - BROKEN
T - DOTTED
D - DOUBLE
K - DOUBLE BROKEN
H - DOUBLE DOTTED | 3RD DIGIT
COLOR
W - WHITE
Y - YELLOW
B - BLACK |
|------------------------------------|---|--|

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LEGEND

- PAVEMENT MESSAGE PAINT
- CROSSWALK PAINT: 3' WIDTH, 3' GAPS

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



SCALE: AS SHOWN
PLAN BY: EKM
EKM

DESIGN BY: EKM
CHECK BY: JAO
JAO

REVISIONS	
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