

2025 REHABILITATION PROJECT

CITY OF LINO LAKES

CONSTRUCTION PLAN FOR MILL & OVERLAY AND GATE VALVE REPLACEMENT

LOCATED ON	<u>RED BIRCH COURT</u>	<u>MUSKRAT RUN</u>	<u>COYOTE TRAIL</u>
	<u>WHITE BIRCH COURT</u>	<u>FAWN LANE</u>	<u>COYOTE COURT</u>
	<u>EAST SHADOW LAKE CT</u>	<u>BEAVER TRAIL</u>	<u>LINDEN LANE</u>
	<u>RED HAWK TRAIL</u>	<u>MAPLE STREET</u>	<u>ORANGE STREET</u>
	<u>OLIVE STREET</u>	<u>EVA STREET</u>	

GOVERNING SPECIFICATIONS

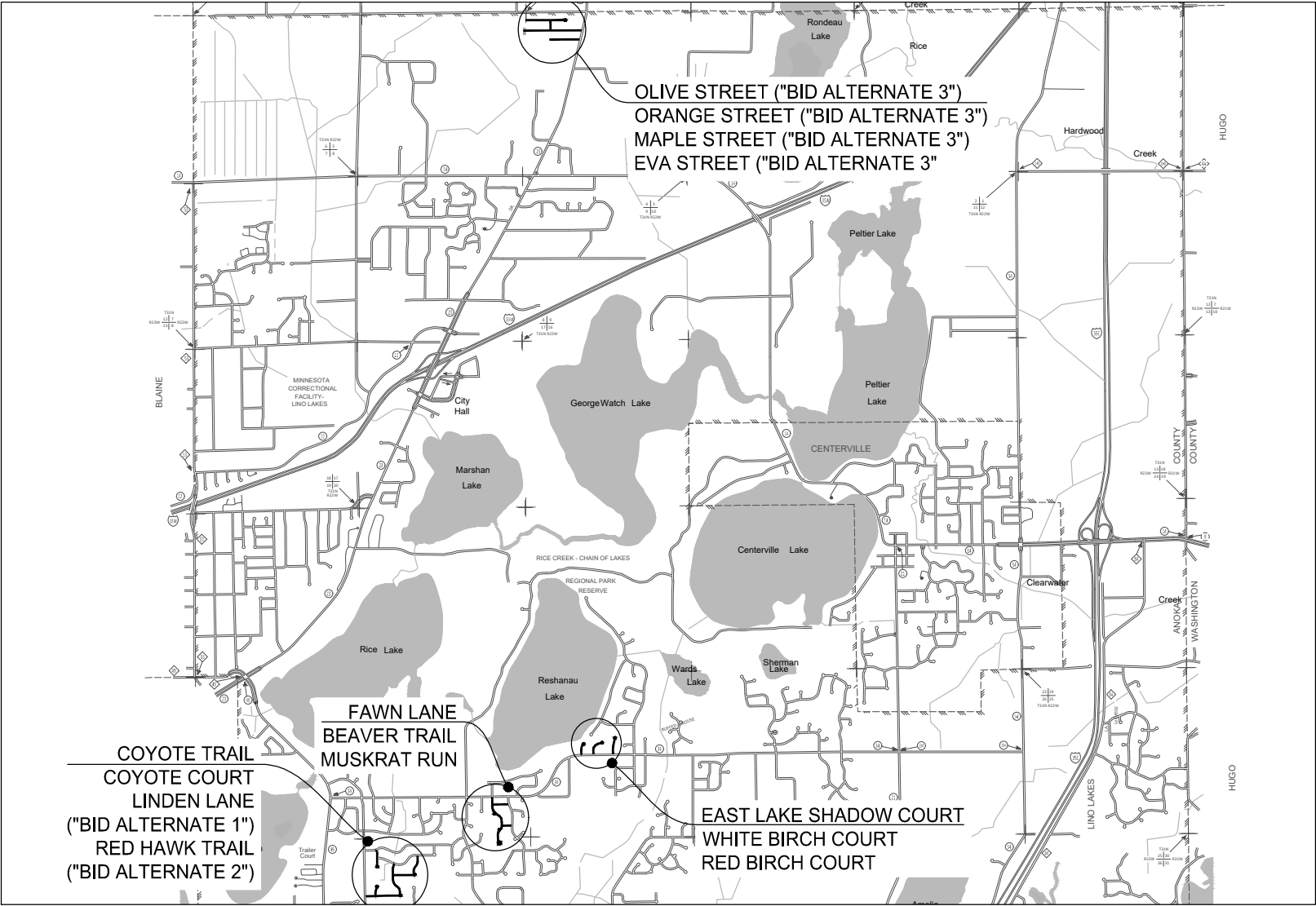
THIS WORK SHALL BE DONE IN ACCORDANCE WITH THE 2023 EDITION OF THE CITY OF LINO LAKES "GENERAL SPECIFICATIONS AND STANDARD DETAIL PLATES FOR STREET AND UTILITY CONSTRUCTION."

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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2	GENERAL LAYOUT
3	STATEMENT OF ESTIMATED QUANTITIES
4	CONSTRUCTION NOTES
5	TYPICAL SECTIONS
6	STANDARD DETAILS
7-20	STREET CONSTRUCTION PLANS
21-34	EROSION CONTROL PLANS



PROJECT LOCATION MAP

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: ANOKA

SECT 04, TWP 31N, RNG 22W
SECT 05, TWP 31N, RNG 22W
SECT 28, TWP 31N, RNG 22W
SECT 29, TWP 31N, RNG 22W
SECT 31, TWP 31N, RNG 22W
SECT 32, TWP 31N, RNG 22W
HORIZONTAL DATUM:
ANOKA COUNTY COORDINATE SYSTEM
DATUM: NAD83 (1996) ADJUSTMENT
UNITS: US SURVEY FEET
VRS MOUNT POINT: 1996 CMRX

VERTICAL DATUM:
NAVD88
GEOID: MN03

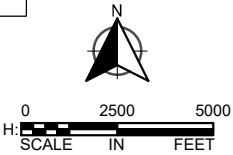
UTILITY INFORMATION

THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL D. THIS UTILITY QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF C/ASCE 38-02, ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA."

GOPHER ONE CALL TICKET NUMBER: 243052200, 243060719, 243052148, 243052330, 243052231, 243052166, 243051818, 243052113, 243052404, 243052276, 2430523386

UTILITY COORDINATION MEETING HELD ON: DECEMBER 20, 2025

PLAN REVISIONS		
DATE	SHEET NO.	APPROVED BY



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.

Diane Hanke
DIANE L. HANKEE, P.E.

DATE: 01/17/2025 LICENSE NUMBER: 43338

WSB PROJ. NO. 026891-000

SHEET
1
OF
34



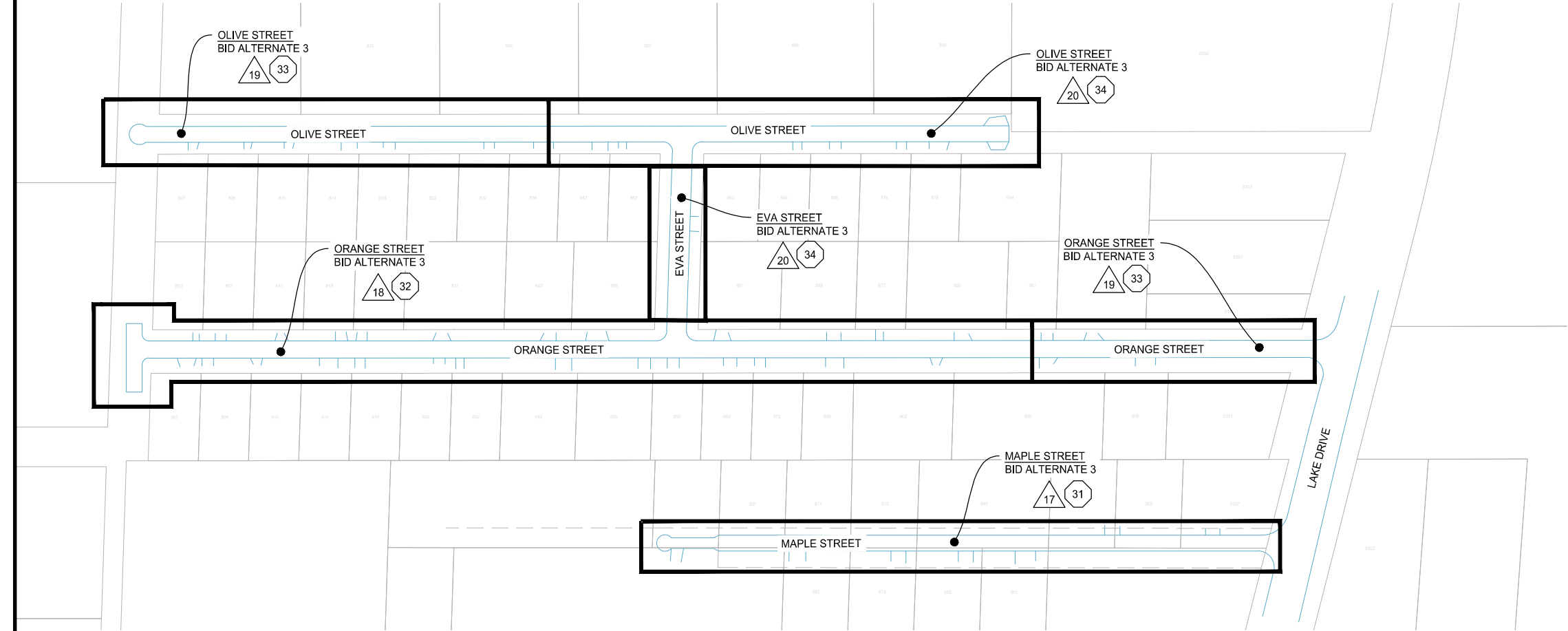
REVISIONS	
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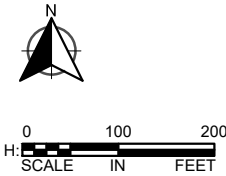
GENERAL LAYOUT

2025 STREET REHABILITATION PROJECT
CITY OF LINO LAKES



LEGEND

SHEET NO.	DESCRIPTION
	MILL AND OVERLAY PLAN
	EROSION CONTROL PLAN



SCALE:	DESIGN BY:
AS SHOWN	DLH
PLAN BY:	CHECK BY:
KEA	PTH

REVISIONS	
NO.	DESCRIPTION

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 DIANE L. HANKE
 DATE: MM/DD/YYYY LIC. NO. 43338

GENERAL LAYOUT

2025 STREET REHABILITATION PROJECT
CITY OF LINO LAKES

WSB PROJECT NO.
026891-000

SHEET
3 OF 34

2025 REHABILITATION PROJECT STATEMENT OF ESTIMATED QUANTITIES				
NOTES	MN/DOT SPECIFICATION NO.	DESCRIPTION	UNIT	ESTIMATED QUANTITY
SCHEDULE A - SURFACE IMPROVEMENTS				
	2021.501	MOBILIZATION	L S	1
1	2104.502	REMOVE CASTING	EACH	5
1	2104.503	REMOVE CURB & GUTTER	L F	1000
13	2104.503	SAWING CONCRETE PAVEMENT (FULL DEPTH)	L F	60
13	2104.503	SAWING BIT PAVEMENT (FULL DEPTH)	L F	400
13	2104.504	REMOVE CONCRETE DRIVEWAY PAVEMENT	S Y	100
13	2104.504	REMOVE BITUMINOUS DRIVEWAY PAVEMENT	S Y	30
13	2104.504	REMOVE BITUMINOUS PAVEMENT	S Y	60
1	2123.610	STREET SWEEPER (WITH PICKUP BROOM)	HOURL	20
1	2123.610	UTILITY CREW	HOURL	20
	2232.604	MILL BITUMINOUS SURFACE	S Y	13900
1,19	2301.604	SLAB JACKING	S Y	100
1,20	2302.604	CONCRETE GRINDING	S Y	40
11	2331.501	JOINT ADHESIVE	L F	1300
	2357.506	BITUMINOUS MATERIAL FOR TACK COAT	GAL	300
7	2360.504	TYPE SP 9.5 WEAR CRS MIX (2,B) 3.0" THICK	S Y	30
7,21	2360.509	TYPE SP 9.5 BIT MIXTURE FOR PATCHING	TON	10
	2360.509	TYPE SP 9.5 WEARING COURSE MIXTURE (2,B)	TON	2500
1	2504.601	IRRIGATION SYSTEM REPAIR	L S	1
	2505.601	UTILITY COORDINATION	L S	1
	2506.502	CASTING ASSEMBLY	EACH	5
17	2506.502	ADJUST FRAME & RING CASTING	EACH	39
18	2506.602	ADJUST FRAME & RING CASTING	EACH	29
	2506.602	CHIMNEY SEAL	EACH	44
	2531.503	CONCRETE CURB & GUTTER DESIGN B618	L F	600
	2531.603	CONCRETE CURB & GUTTER DES SURMOUNTABLE	L F	400
7	2531.504	6" CONCRETE DRIVEWAY PAVEMENT	S Y	100
	2563.601	TRAFFIC CONTROL	L S	1
	2573.502	STORM DRAIN INLET PROTECTION	EACH	40
	2573.503	SEDIMENT CONTROL LOG TYPE STRAW BIOROLL	L F	400
5,12	2574.507	COMMON TOPSOIL BORROW	C Y	40
	2575.504	SODDING TYPE LAWN	S Y	210
	2575.523	RAPID STABILIZATION METHOD 3	S Y	210
9	2575.523	WATER	MGAL	20
SCHEDULE B - WATER SYSTEM IMPROVEMENTS				
1,14	2104.502	REMOVE GATE VALVE & BOX	EACH	38
13	2104.503	SAWING BIT PAVEMENT (FULL DEPTH)	L F	1140
13	2104.504	REMOVE BITUMINOUS PAVEMENT	S Y	430
12,16	2106.507	EXCAVATION - COMMON (P)	C Y	170
12,16	2106.507	EXCAVATION - SUBGRADE (P)	C Y	400
16	2106.507	SELECT GRANULAR EMBANKMENT (CV) (P)	C Y	400
	2106.601	DEWATERING	L S	1
16	2211.507	AGGREGATE BASE (CV) CLASS 5	C Y	200
	2504.602	CONNECT TO EXISTING WATERMAIN	EACH	74
	2504.602	6" GATE VALVE & BOX	EACH	31
	2504.602	8" GATE VALVE & BOX	EACH	3
	2504.602	16" GATE VALVE & BOX	EACH	4
	2504.602	SACRIFICIAL ANODE BAG (32 LB)	EACH	38
8	2504.603	6" WATERMAIN DUCTILE IRON CL 52	L F	124
8	2504.603	8" WATERMAIN DUCTILE IRON CL 52	L F	20
8	2504.603	16" WATERMAIN DUCTILE IRON CL 52	L F	20
	2504.602	ADJUST GATE VALVE & BOX	EACH	2

- NOTES:
- (P) DENOTES PLAN QUANTITY.
1. AS DIRECTED BY THE ENGINEER IN THE FIELD (MAY REQUIRE MULTIPLE MOBILIZATIONS).
2. MUST BE PRE-APPROVED BY THE ENGINEER PRIOR TO THE START OF WORK.
3. NO LESS THAN 100% SHALL PASS THE TWO-INCH (2") SIEVE.
4. SEE CITY OF CITY OF LINO LAKES GENERAL SPECIFICATIONS FOR REQUIREMENTS.
5. 6% ORGANIC CONTENT.
6. 100% CRUSHED.
7. INCLUDES EXCAVATION AND 6" AGGREGATE BASE CLASS 5.
8. WITH POLYWRAP.
9. TURF ESTABLISHMENT.
10. INSTALLATION OF SALVAGED ITEM.
11. MASTIC.
12. COMPACTED VOLUME.
13. THICKNESS MAY VARY (INCIDENTAL).
14. ALL SIZES AND MATERIALS.
15. INCLUDES REINFORCEMENT.
16. INSTALLATION OF GATE VALVE & BOX.
17. SANITARY SEWER AND STORM SEWER MANHOLE CASTINGS.
18. STORM SEWER CATCH BASIN CASTINGS.
19. MUDJACKING CONCRETE VALLEY GUTTER AND CONCRETE CURB & GUTTER
20. FAWN LANE VALLEY GUTTERS.
21. MATCH BITUMINOUS MIXTURE FOR OVERLAY.

2025 REHABILITATION PROJECT STATEMENT OF ESTIMATED QUANTITIES				
NOTES	MN/DOT SPECIFICATION NO.	DESCRIPTION	UNIT	ESTIMATED QUANTITY
ALTERNATE 1 - LINDEN LANE OVERLAY IMPROVEMENTS				
	2021.501	MOBILIZATION	L S	1
1	2104.503	REMOVE CURB & GUTTER	L F	110
13	2104.504	REMOVE CONCRETE DRIVEWAY PAVEMENT	S Y	20
13	2104.504	REMOVE BITUMINOUS DRIVEWAY PAVEMENT	S Y	20
1	2123.610	STREET SWEEPER (WITH PICKUP BROOM)	HOURL	10
1	2123.610	UTILITY CREW	HOURL	10
	2232.504	MILL BITUMINOUS SURFACE	S Y	1230
11	2331.501	JOINT ADHESIVE	L F	1500
	2357.506	BITUMINOUS MATERIAL FOR TACK COAT	GAL	10
7	2360.504	TYPE SP 9.5 WEAR CRS MIX (2,B) 3.0" THICK	S Y	20
	2360.509	TYPE SP 9.5 WEARING COURSE MIXTURE (2,B)	TON	500
1	2504.601	IRRIGATION SYSTEM REPAIR	L S	1
	2505.601	UTILITY COORDINATION	L S	1
17	2506.502	ADJUST FRAME & RING CASTING	EACH	5
18	2506.602	ADJUST FRAME & RING CASTING	EACH	2
	2506.602	CHIMNEY SEAL	EACH	7
	2531.503	CONCRETE CURB & GUTTER DESIGN B618	L F	100
	2531.603	CONCRETE CURB & GUTTER DES SURMOUNTABLE	L F	100
	2563.601	TRAFFIC CONTROL	L S	1
	2573.502	STORM DRAIN INLET PROTECTION	EACH	5
	2573.503	SEDIMENT CONTROL LOG TYPE STRAW BIOROLL	L F	60
5,12	2574.507	COMMON TOPSOIL BORROW	C Y	10
	2575.504	SODDING TYPE LAWN	S Y	34
	2575.523	RAPID STABILIZATION METHOD 3	S Y	10
9	2575.523	WATER	MGAL	2
ALTERNATE 2 - RED HAWK TRAIL OVERLAY IMPROVEMENTS				
	2021.501	MOBILIZATION	L S	1
1	2104.503	REMOVE CURB & GUTTER	L F	20
13	2104.504	REMOVE CONCRETE DRIVEWAY PAVEMENT	S Y	20
13	2104.504	REMOVE BITUMINOUS DRIVEWAY PAVEMENT	S Y	20
1	2123.610	STREET SWEEPER (WITH PICKUP BROOM)	HOURL	10
1	2123.610	UTILITY CREW	HOURL	10
	2232.604	MILL BITUMINOUS SURFACE	S Y	850
11	2331.501	JOINT ADHESIVE	L F	80
	2357.506	BITUMINOUS MATERIAL FOR TACK COAT	GAL	10
7	2360.504	TYPE SP 9.5 WEAR CRS MIX (2,B) 3.0" THICK	S Y	20
	2360.509	TYPE SP 9.5 WEARING COURSE MIXTURE (2,B)	TON	230
1	2504.601	IRRIGATION SYSTEM REPAIR	L S	1
	2505.601	UTILITY COORDINATION	L S	1
17	2506.502	ADJUST FRAME & RING CASTING	EACH	3
	2506.602	CHIMNEY SEAL	EACH	3
	2531.603	CONCRETE CURB & GUTTER DES SURMOUNTABLE	L F	20
	2563.601	TRAFFIC CONTROL	L S	1
	2573.502	STORM DRAIN INLET PROTECTION	EACH	3
	2573.503	SEDIMENT CONTROL LOG TYPE STRAW BIOROLL	L F	20
5,12	2574.507	COMMON TOPSOIL BORROW	C Y	1.2
	2575.504	SODDING TYPE LAWN	S Y	10
	2575.523	RAPID STABILIZATION METHOD 3	S Y	10
9	2575.523	WATER	MGAL	2

2025 REHABILITATION PROJECT STATEMENT OF ESTIMATED QUANTITIES				
NOTES	MN/DOT SPECIFICATION NO.	DESCRIPTION	UNIT	ESTIMATED QUANTITY
ALTERNATE 3 - MAPLE ST, ORANGE ST, OLIVE ST, AND EVA ST THIN OVERLAY IMPROVEMENTS				
	2021.501	MOBILIZATION	L S	1
1	2123.610	STREET SWEEPER (WITH PICKUP BROOM)	HOURL	15
1	2123.610	UTILITY CREW	HOURL	15
	2232.604	MILL BITUMINOUS SURFACE	S Y	70
	2357.506	BITUMINOUS MATERIAL FOR TACK COAT	GAL	20
	2360.509	TYPE SP 9.5 WEARING COURSE MIXTURE (2,B)	TON	1370
	2505.601	UTILITY COORDINATION	L S	1
	2563.601	TRAFFIC CONTROL	L S	1
	2573.503	SEDIMENT CONTROL LOG TYPE STRAW BIOROLL	L F	200
5,12	2574.507	COMMON TOPSOIL BORROW	C Y	30
	2575.504	SODDING TYPE LAWN	S Y	170
	2575.523	RAPID STABILIZATION METHOD 3	S Y	10
9	2575.523	WATER	MGAL	10



SCALE:AS SHOWNPLAN BY: KEA

DESIGN BY:DLHCHECK BY: PTH

REVISIONS						
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DIANE L. HANKEE

DATE: MM/DD/YYYYLIC. NO.: 43338

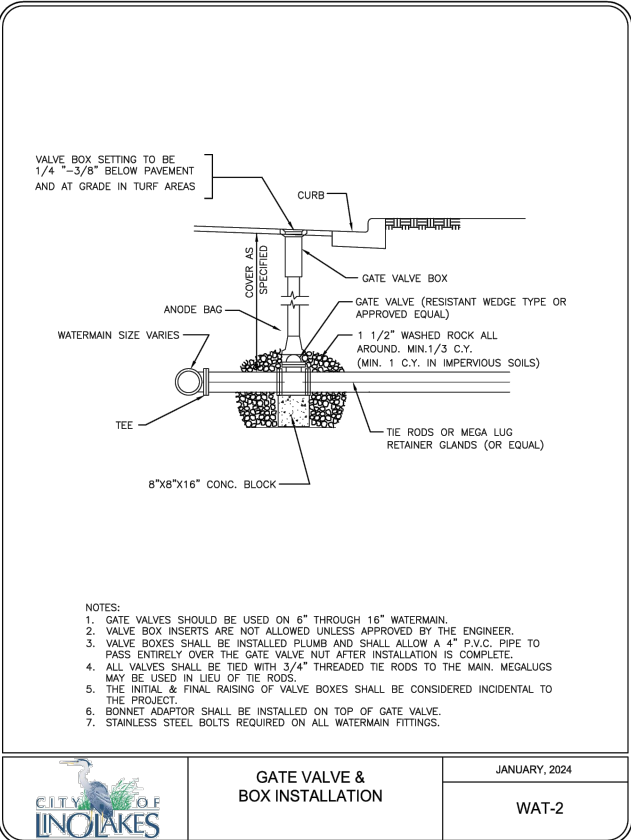
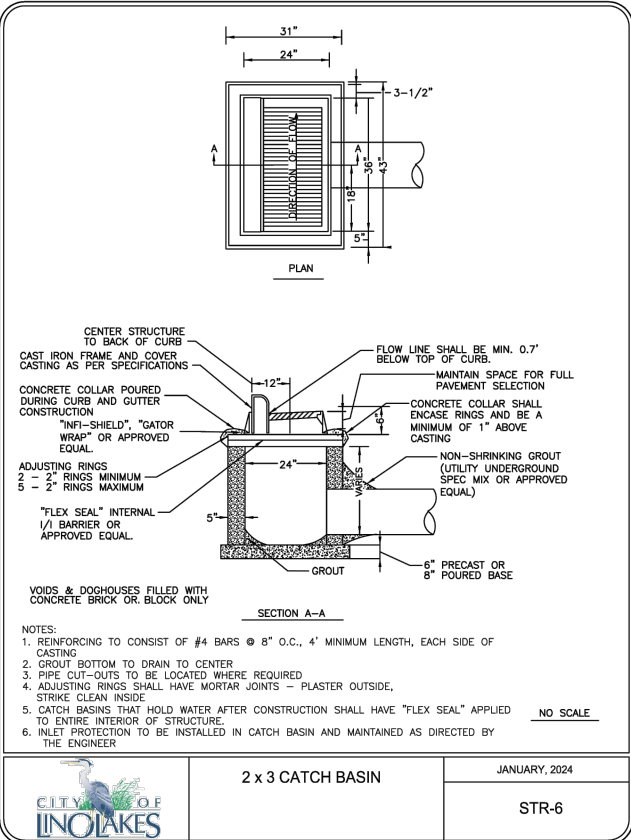
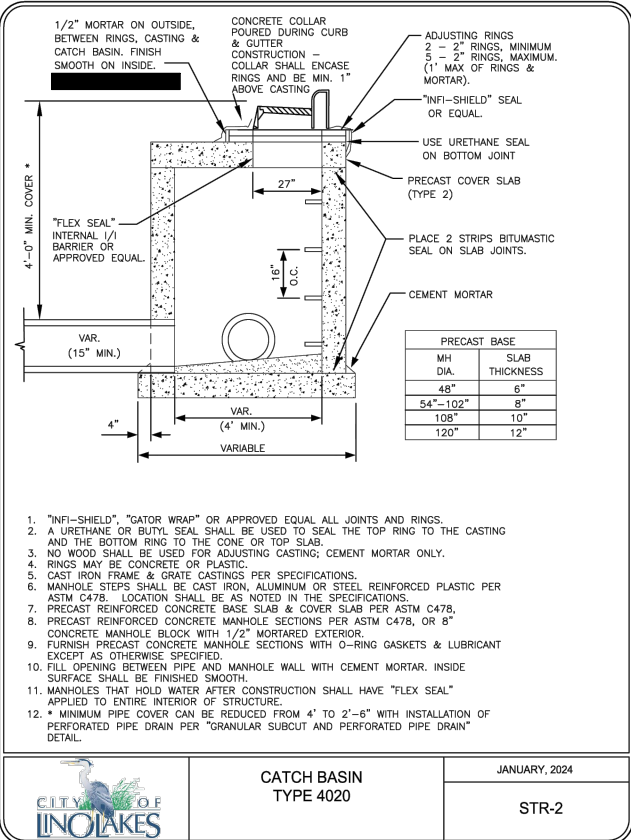
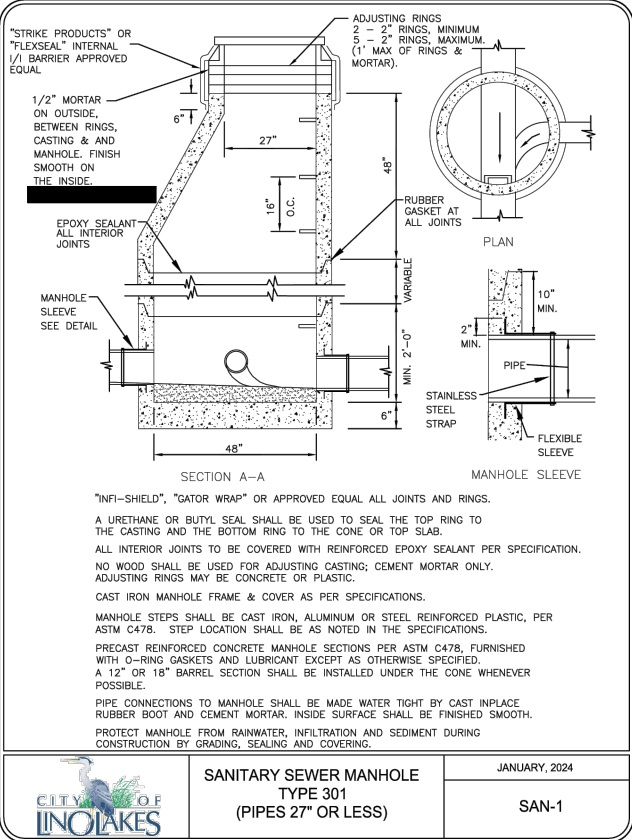
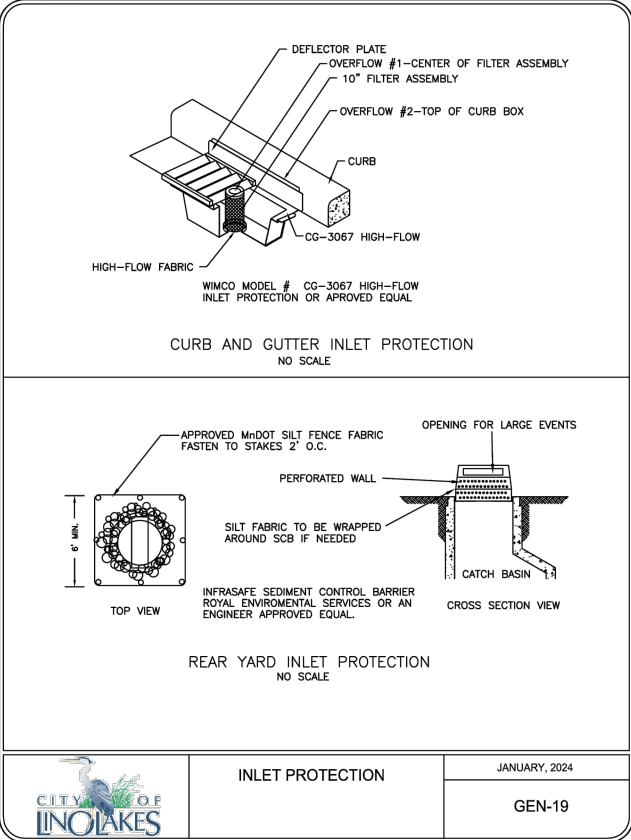
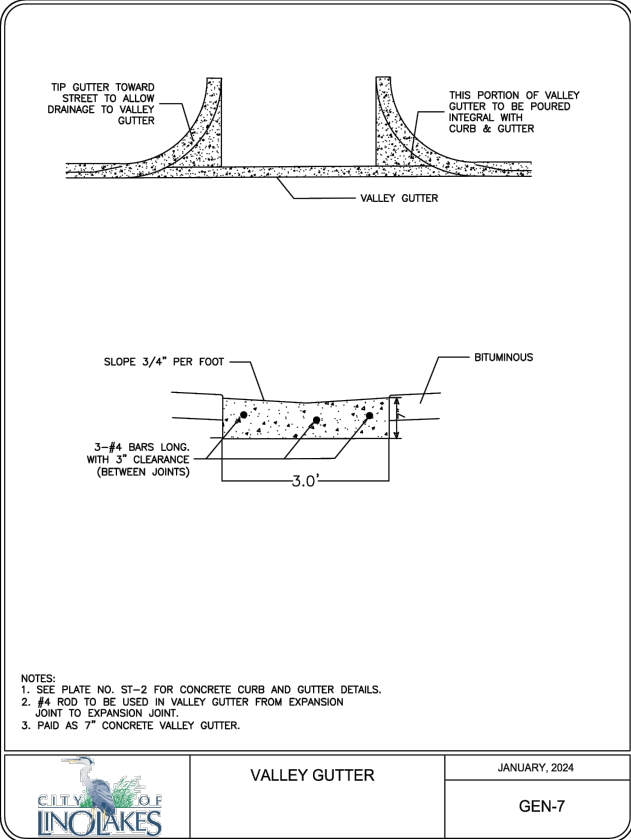
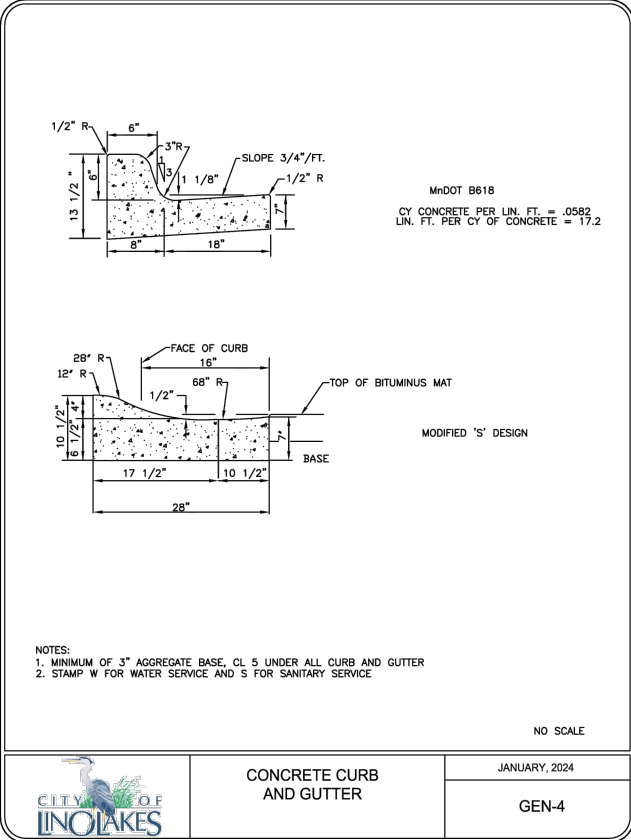
STATEMENT OF
ESTIMATED
QUANTITIES

2025 STREET REHABILITATION PROJECT
CITY OF LINO LAKES

WSB PROJECT NO.
026891-000

SHEET

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CITY OF LINO LAKES

SCALE: AS SHOWN
PLAN BY: KEA
DESIGN BY: DLH
CHECK BY: PTH

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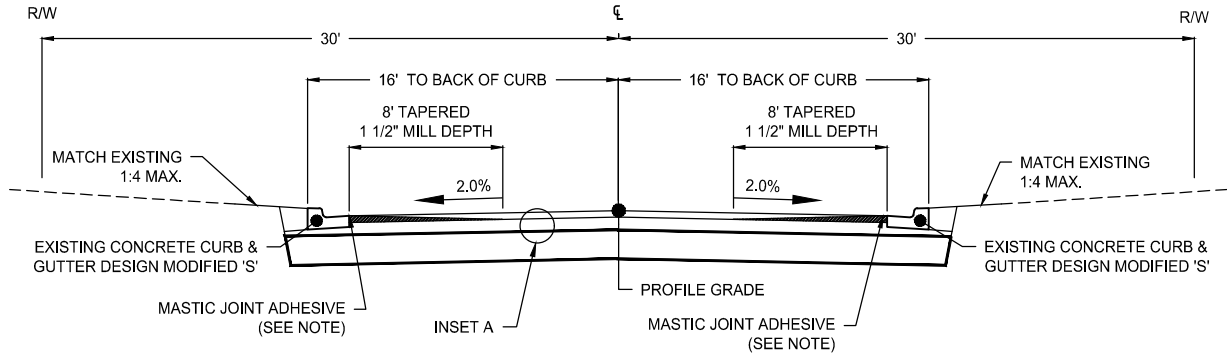
DATE: MM/DD/YYYY LIC. NO. 43338

GENERAL DETAILS

2025 STREET REHABILITATION PROJECT
CITY OF LINO LAKES

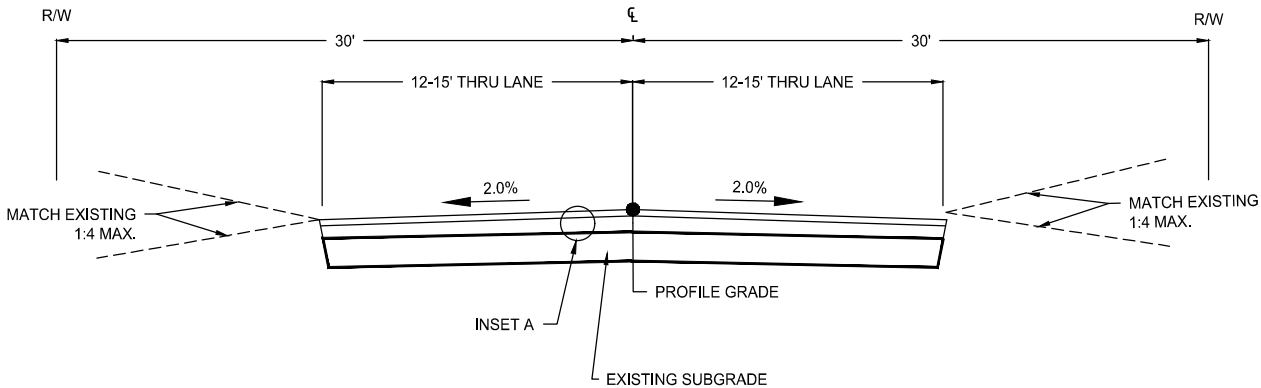
TYPICAL MILL AND OVERLAY PAVEMENT SECTION
RED BIRCH CT, WHITE BIRCH CT, EAST SHADOW LAKE CT,
FAWN LN, MUSKRAT RUN, BEAVER TRL, COYOTE TRL,
COYOTE CT, RED HAWK TRL (BID ALTERNATE), LINDEN LN
(BID ALTERNATE)

NOT TO SCALE



TYPICAL OVERLAY SECTION
MAPLE ST, ORANGE ST,
EVA ST, AND OLIVE ST

NOT TO SCALE



INSET A
OVERLAY PAVEMENT SECTION

- 1.5" TYPE SP 9.5 BITUMINOUS WEARING COURSE MIX (2.B) SPWEA240B (PG58-28)
- 2357 BITUMINOUS TACK COAT
- EXISTING BITUMINOUS PAVEMENT
- EXISTING AGGREGATE BASE

INSET B
BITUMINOUS ROAD PATCH SECTION

- 1.5" TYPE SP 9.5 WEARING COURSE MIX SPEC 2360 (SPWEA240B)
- 2357 BITUMINOUS TACK COAT
- 2" TYPE SP 12.5 NON WEAR COURSE MIX SPEC 2360 (SPWEA240B)
- 6" AGGREGATE BASE CLASS 5
- EXISTING SUBGRADE

BITUMINOUS DRIVEWAY

- 3" TYPE SP 9.5 WEARING COURSE MIX SPEC 2360 (SPWEA240C)
- AGGREGATE BASE CLASS 5 (MATCH EXISTING)
- APPROVED SUBGRADE

CONCRETE DRIVEWAY

- 6" CONCRETE DRIVEWAY PAVEMENT (Mn/DOT 3F52)
- AGGREGATE BASE CLASS 5 (MATCH EXISTING)
- APPROVED SUBGRADE

- NOTES:
1. APPLY MASTIC JOINT ADHESIVE TO THE TOE OF THE CURB PRIOR TO THE FINAL LIFT OF PAVEMENT (SEE SPECIFICATIONS).
 2. REMOVAL AND REPLACEMENT OF SPOT CURB AND GUTTER SHALL BE MARKED BY THE ENGINEER IN THE FIELD.

SCALE: DESIGN BY:
AS SHOWN DLH
PLAN BY: CHECK BY:
KEA PTH

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TYPICAL
SECTIONS

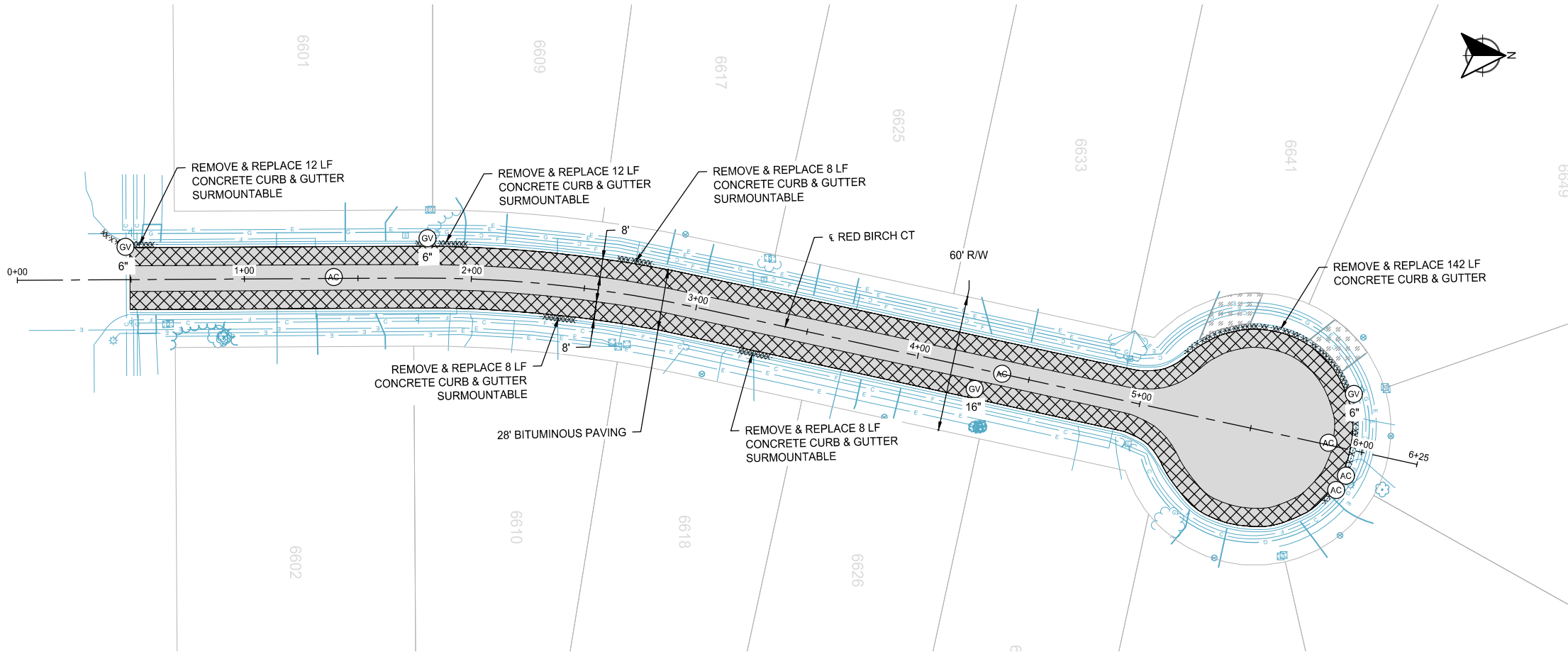
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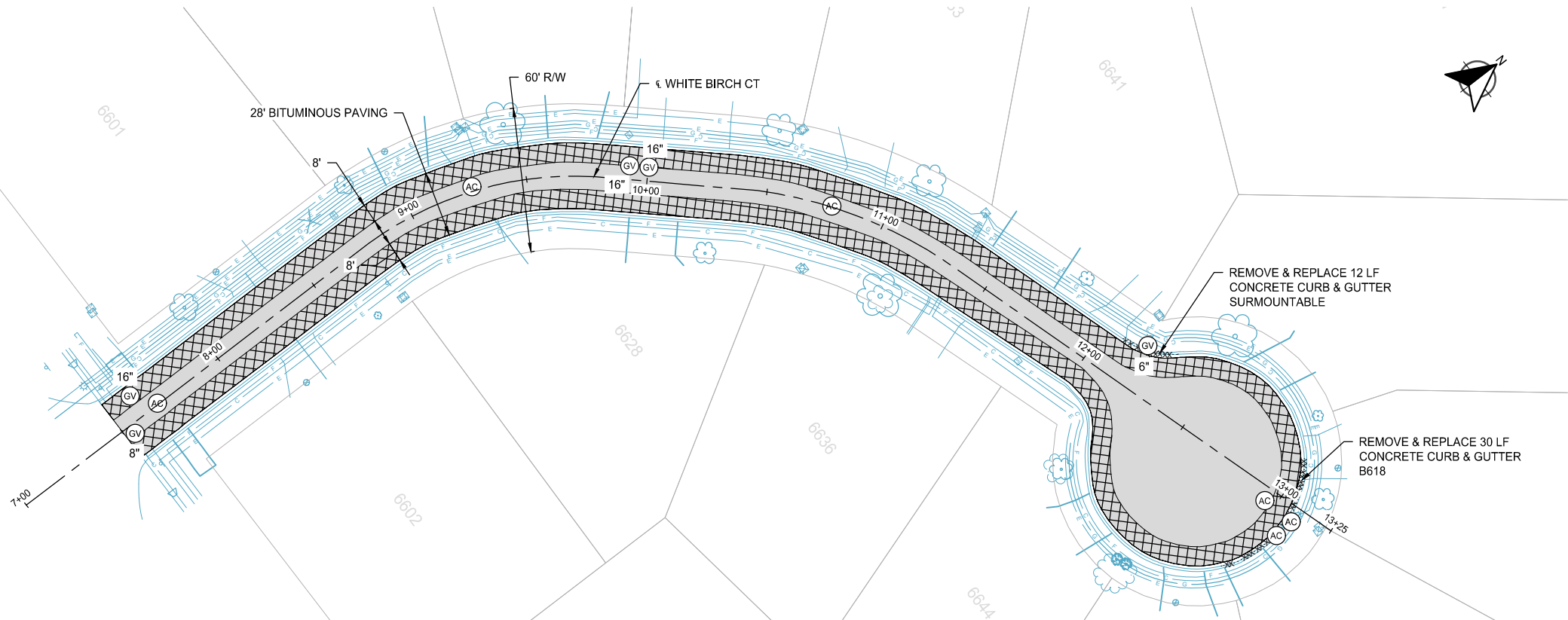
SHEET

6 OF 34

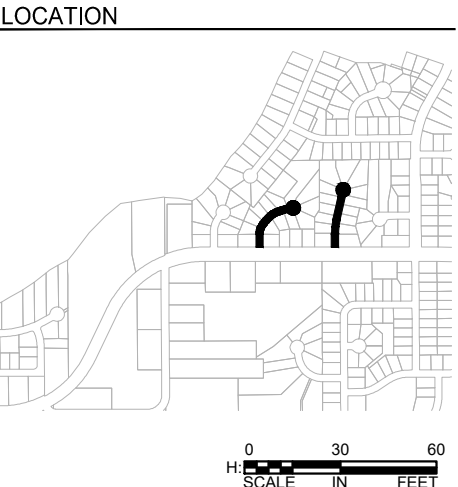
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RED BIRCH COURT



WHITE BIRCH COURT



LEGEND

- (P) PROTECT GATE VALVE
- (AC) ADJUST FRAME & RING CASTING
- (GV) REMOVE & REPLACE GATE VALVE
- (MJ) MUDJACK CONCRETE CURB & GUTTER
- (1) MILL BITUMINOUS PAVEMENT AT DRIVEWAY & 8' ON EITHER SIDE

----- REMOVE & REPLACE CURB AND GUTTER

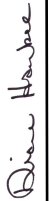
- 1 1/2" BITUMINOUS OVERLAY
- 1 1/2" TAPERED MILL
- REMOVE & REPLACE BITUMINOUS PAVEMENT
- REMOVE & REPLACE CONCRETE DRIVEWAY PAVEMENT
- MUDJACK CONCRETE VALLEY GUTTER



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AS SHOWN	DLH
PLAN BY:	CHECK BY:
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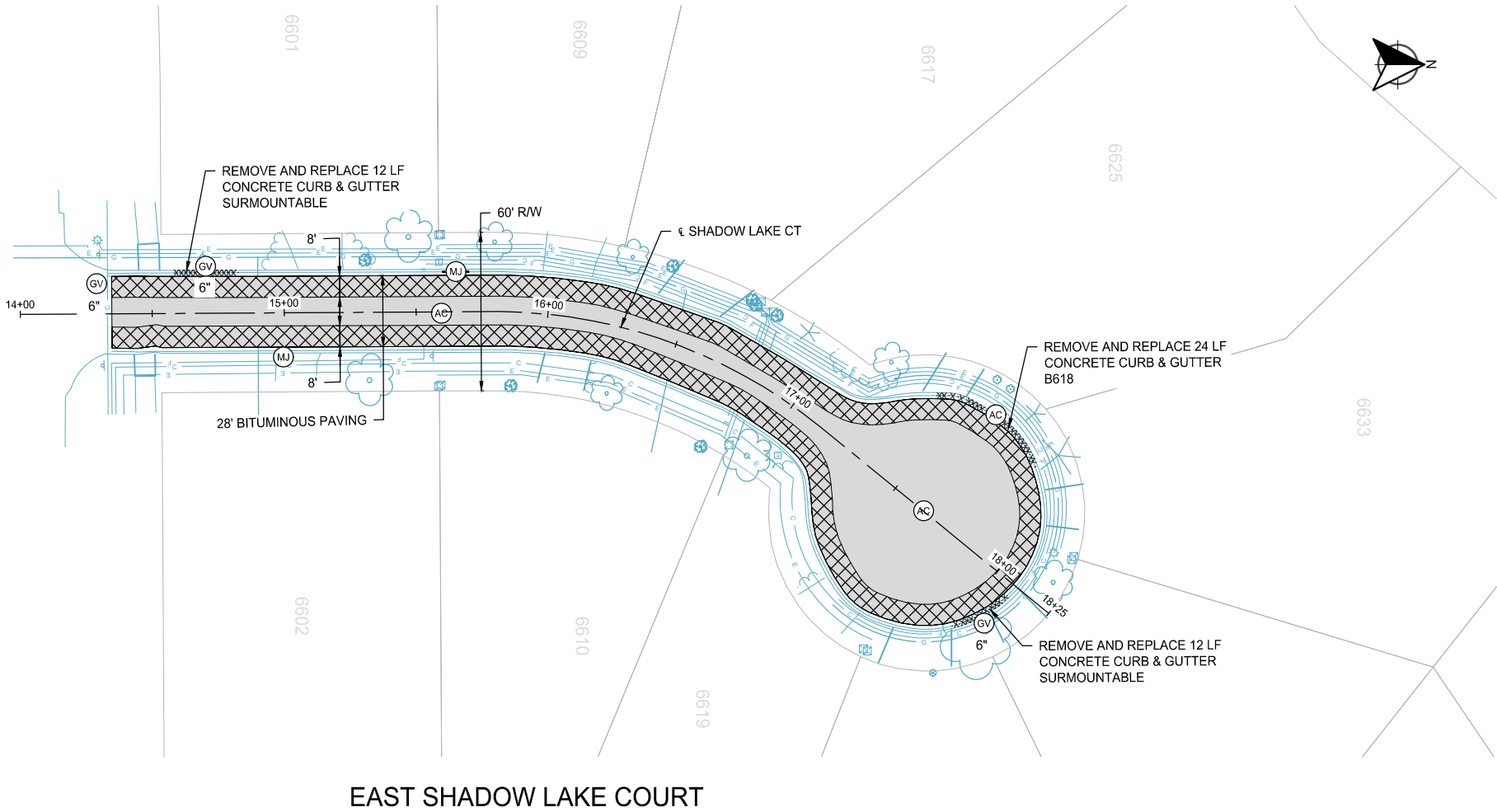
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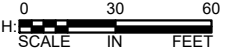
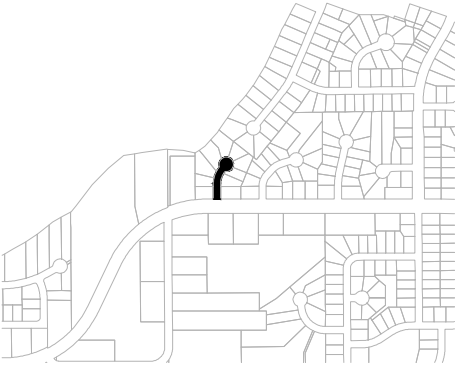
STREET
CONSTRUCTION
PLAN

2025 STREET REHABILITATION PROJECT
CITY OF LINO LAKES

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LOCATION



LEGEND

- (P) PROTECT GATE VALVE
- (AC) ADJUST FRAME & RING CASTING
- (GV) REMOVE & REPLACE GATE VALVE
- (MJ) MUDJACK CONCRETE CURB & GUTTER
- (1) MILL BITUMINOUS PAVEMENT AT DRIVEWAY & 8' ON EITHER SIDE
- REMOVE & REPLACE CURB AND GUTTER
- [Solid Gray Box] 1 1/2" BITUMINOUS OVERLAY
- [Cross-hatched Box] 1 1/2" TAPERED MILL
- [Diagonal Hatched Box] REMOVE & REPLACE BITUMINOUS PAVEMENT
- [Stippled Box] REMOVE & REPLACE CONCRETE DRIVEWAY PAVEMENT
- [Brick Pattern Box] MUDJACK CONCRETE VALLEY GUTTER



SCALE: AS SHOWN
PLAN BY: KEA
DESIGN BY: DLH
CHECK BY: PTH

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Diane L. Hanke
DIANE L. HANKE

DATE: MM/DD/YYYY LIC. NO. 43338

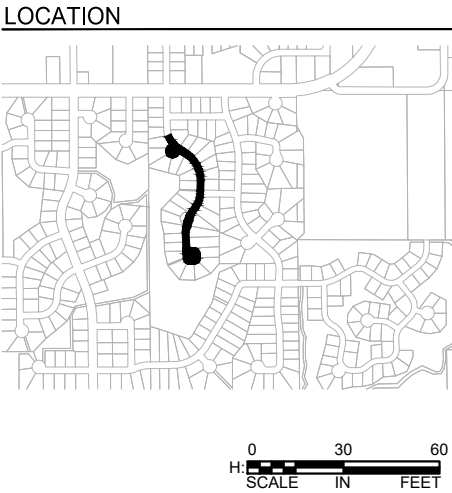
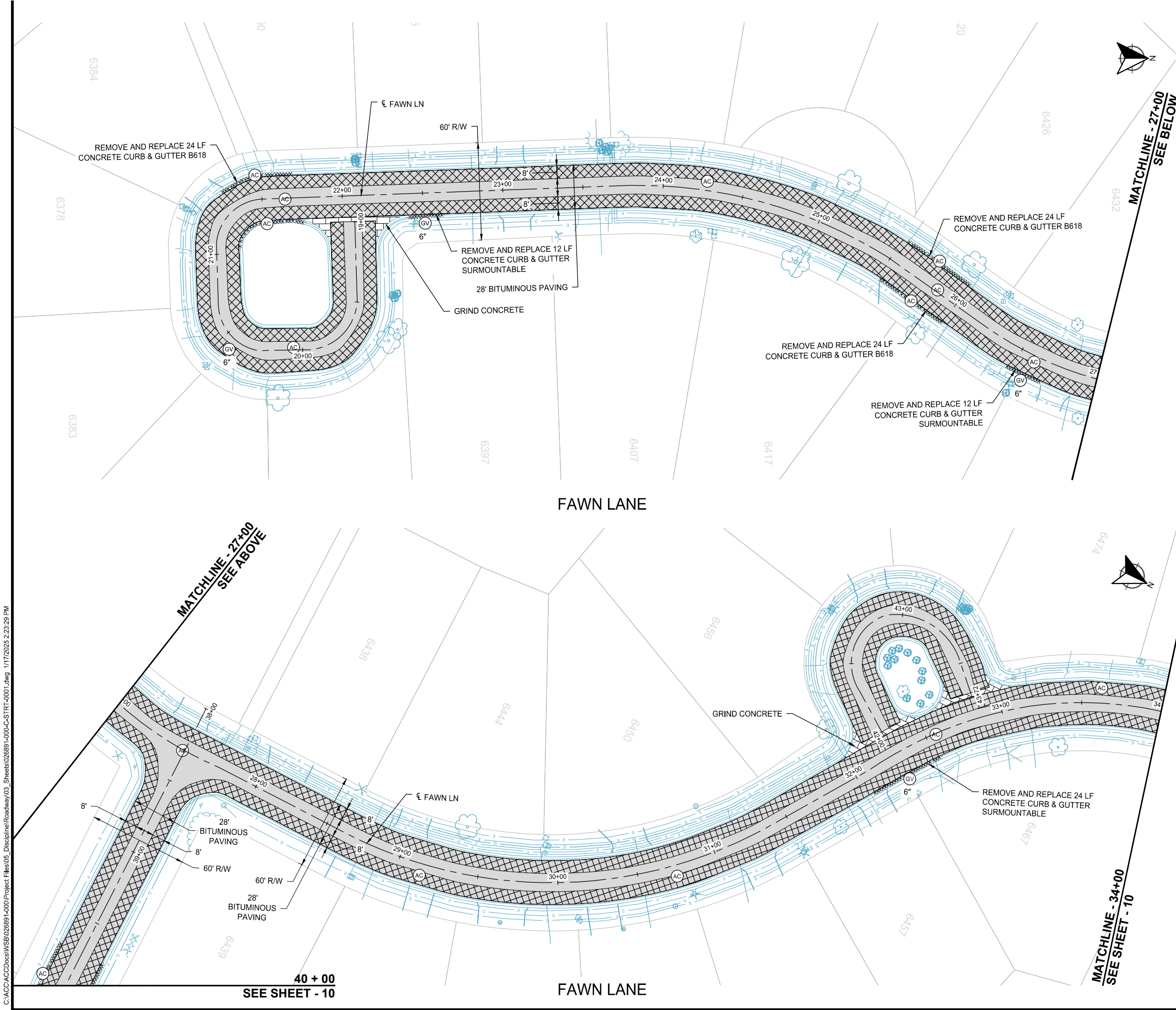
STREET
CONSTRUCTION
PLAN

2025 STREET REHABILITATION PROJECT
CITY OF LINO LAKES

WSB PROJECT NO.
026891-000

SHEET

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LEGEND

(P)	PROTECT GATE VALVE
(AC)	ADJUST FRAME & RING CASTING
(GV)	REMOVE & REPLACE GATE VALVE
(MJ)	MUDJACK CONCRETE CURB & GUTTER
(1)	MILL BITUMINOUS PAVEMENT AT DRIVEWAY & 8' ON EITHER SIDE
-----	REMOVE & REPLACE CURB AND GUTTER
[Pattern]	1 1/2" BITUMINOUS OVERLAY
[Pattern]	1 1/2" TAPERED MILL
[Pattern]	REMOVE & REPLACE BITUMINOUS PAVEMENT
[Pattern]	REMOVE & REPLACE CONCRETE DRIVEWAY PAVEMENT
[Pattern]	MUDJACK CONCRETE VALLEY GUTTER

wsb

CITY OF LINO LAKES

SCALE:

AS SHOWN

PLAN BY:

KEA

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Diane Hanke

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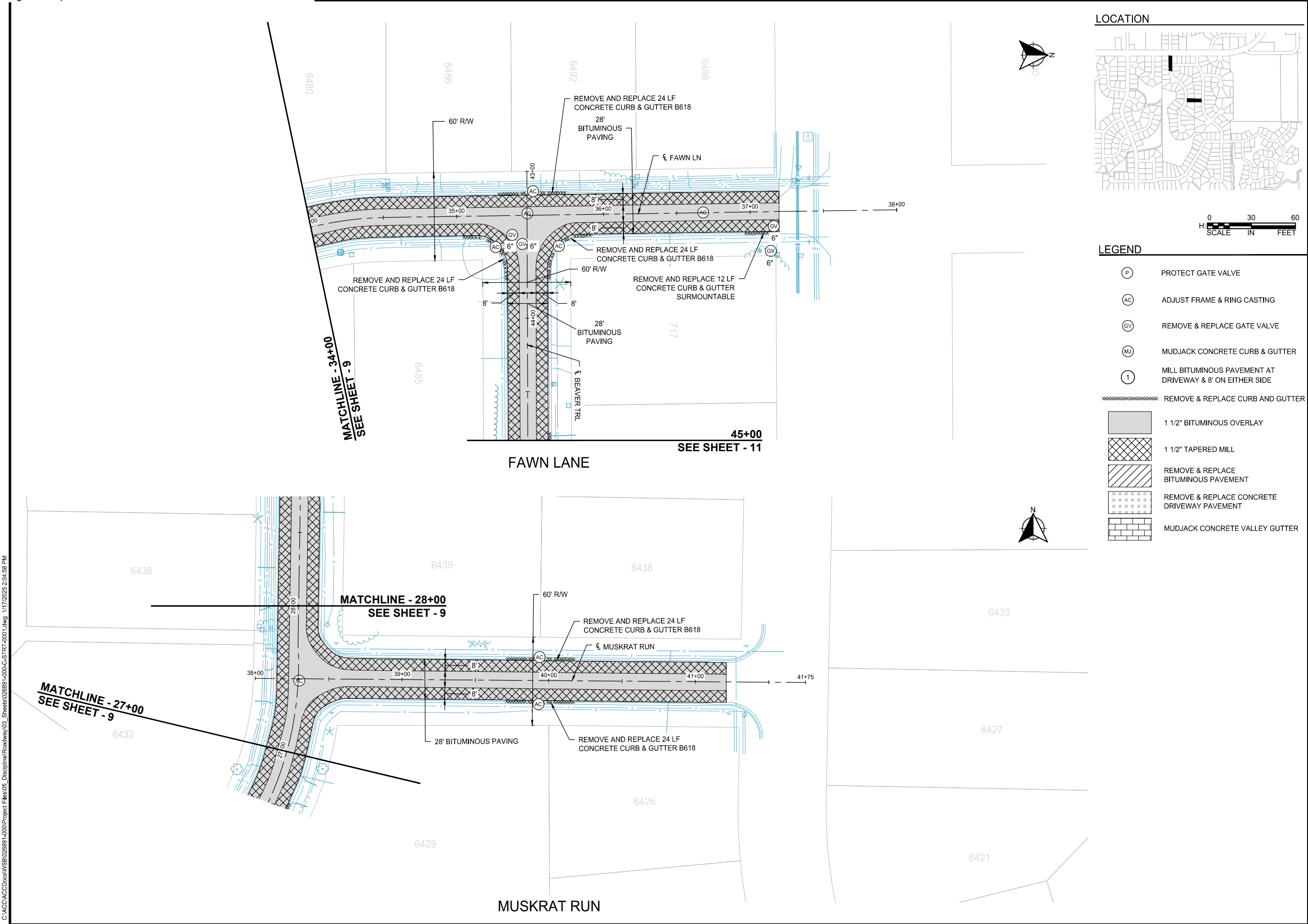
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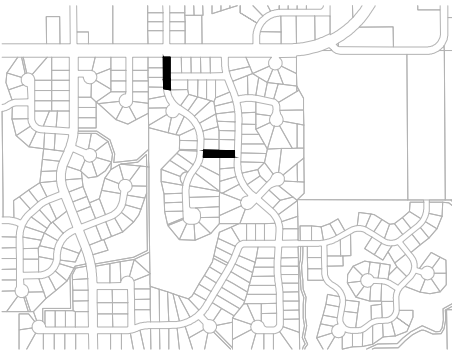
STREET CONSTRUCTION PLAN

2025 STREET REHABILITATION PROJECT
CITY OF LINO LAKES

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LOCATION



LEGEND

- (P) PROTECT GATE VALVE
- (AC) ADJUST FRAME & RING CASTING
- (GV) REMOVE & REPLACE GATE VALVE
- (MJ) MUDJACK CONCRETE CURB & GUTTER
- (1) MILL BITUMINOUS PAVEMENT AT DRIVEWAY & 8' ON EITHER SIDE
- REMOVE & REPLACE CURB AND GUTTER
- [Pattern: Solid Grey] 1 1/2" BITUMINOUS OVERLAY
- [Pattern: Diagonal Lines] 1 1/2" TAPERED MILL
- [Pattern: Parallel Lines] REMOVE & REPLACE BITUMINOUS PAVEMENT
- [Pattern: Staggered Bricks] REMOVE & REPLACE CONCRETE DRIVEWAY PAVEMENT
- [Pattern: Bricks] MUDJACK CONCRETE VALLEY GUTTER



SCALE: AS SHOWN
PLAN BY: KEA
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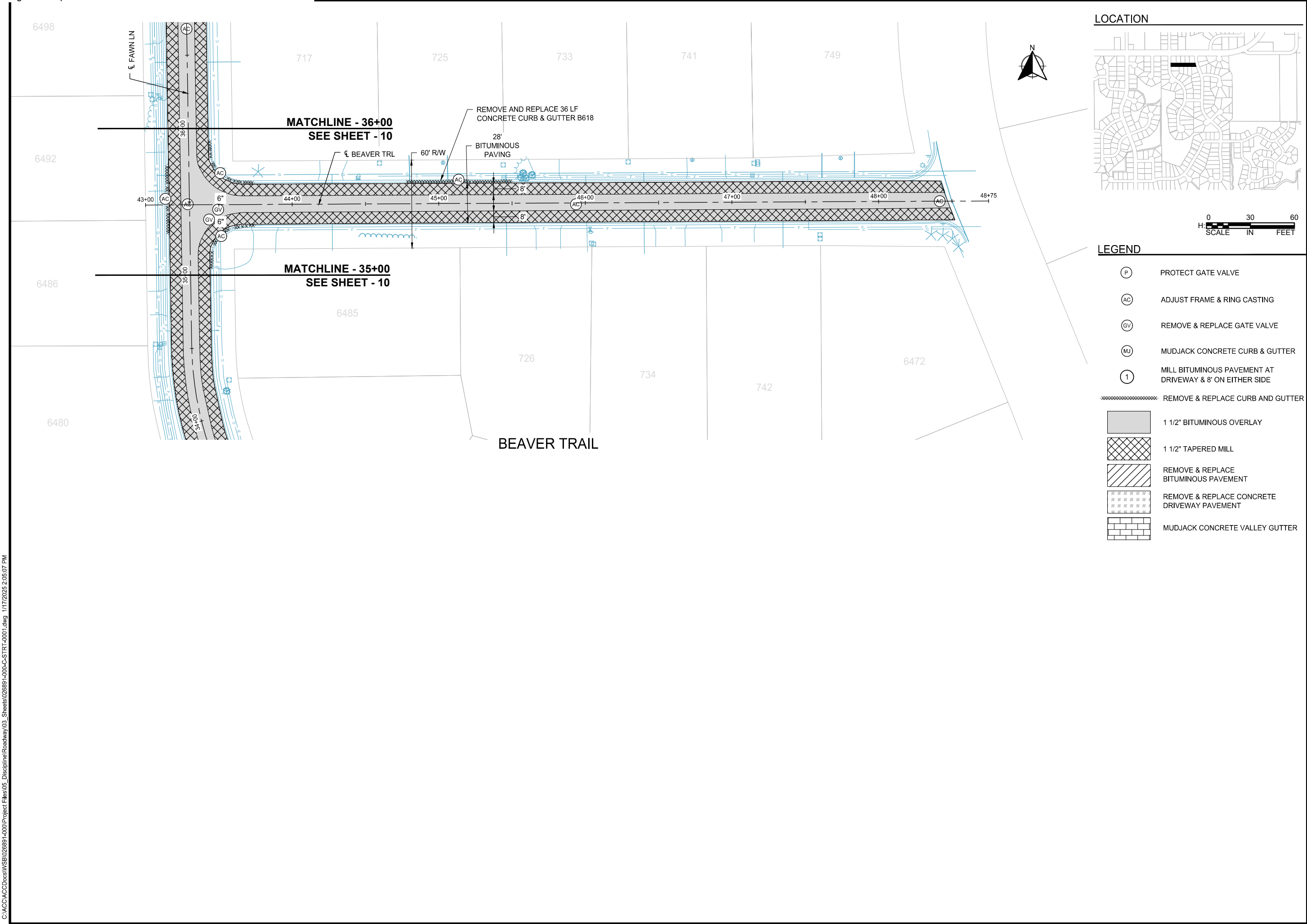
STREET CONSTRUCTION PLAN

2025 STREET REHABILITATION PROJECT
CITY OF LINO LAKES

WSB PROJECT NO.
026891-000

SHEET

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- LEGEND**
- (P) PROTECT GATE VALVE
 - (AC) ADJUST FRAME & RING CASTING
 - (GV) REMOVE & REPLACE GATE VALVE
 - (MJ) MUDJACK CONCRETE CURB & GUTTER
 - (1) MILL BITUMINOUS PAVEMENT AT DRIVEWAY & 8' ON EITHER SIDE
 - REMOVE & REPLACE CURB AND GUTTER
 - [Solid Grey] 1 1/2" BITUMINOUS OVERLAY
 - [Cross-hatch] 1 1/2" TAPERED MILL
 - [Diagonal Lines] REMOVE & REPLACE BITUMINOUS PAVEMENT
 - [Stippled] REMOVE & REPLACE CONCRETE DRIVEWAY PAVEMENT
 - [Brick Pattern] MUDJACK CONCRETE VALLEY GUTTER

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CITY OF LINO LAKES

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STREET CONSTRUCTION PLAN

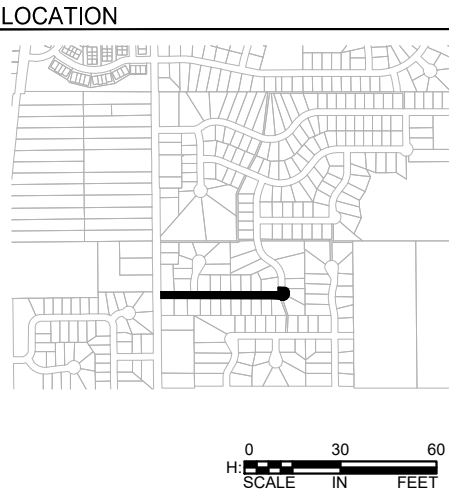
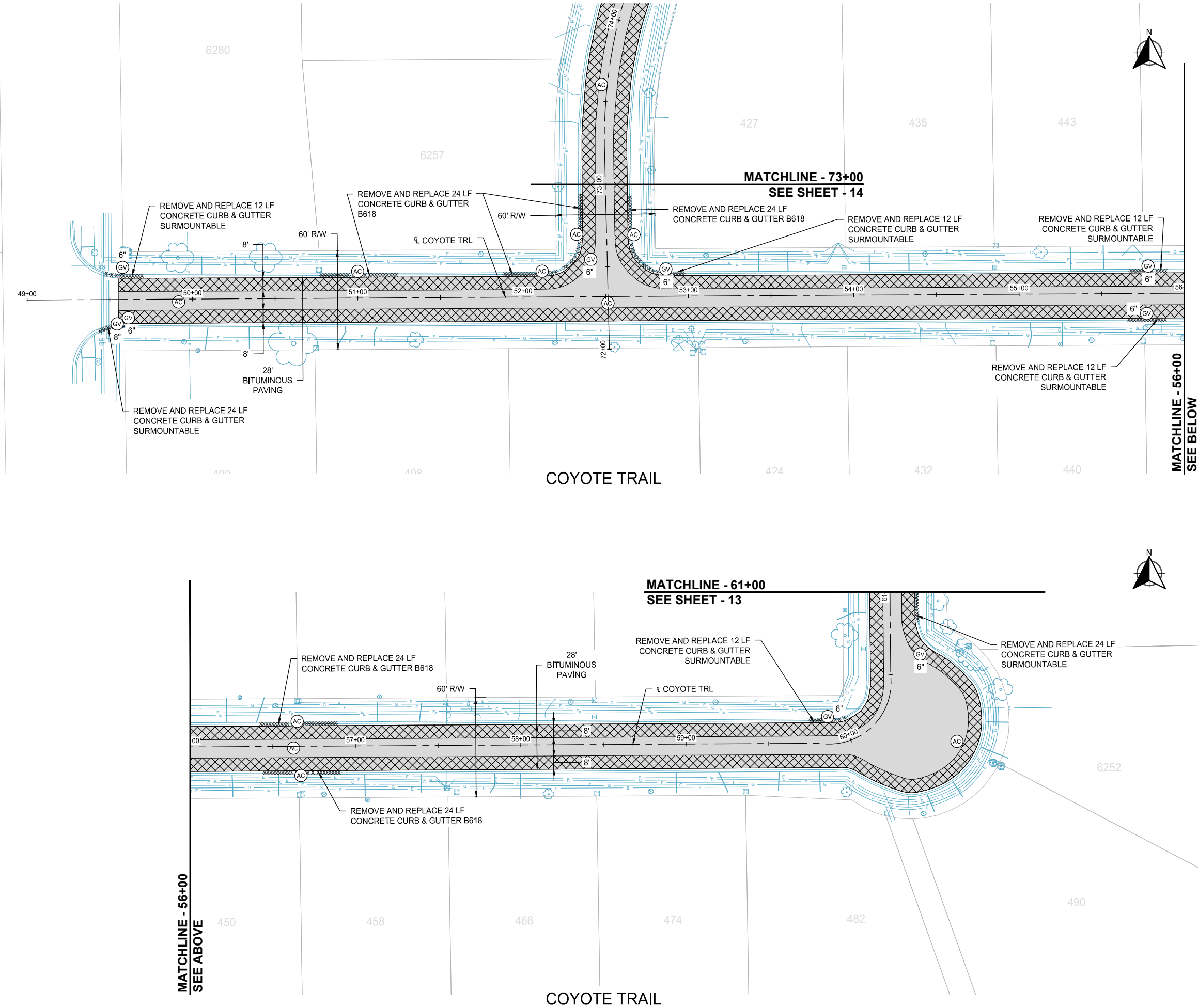
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CITY OF LINO LAKES

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SHEET

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- LEGEND**
- (P) PROTECT GATE VALVE
 - (AC) ADJUST FRAME & RING CASTING
 - (GV) REMOVE & REPLACE GATE VALVE
 - (MJ) MUDJACK CONCRETE CURB & GUTTER
 - (1) MILL BITUMINOUS PAVEMENT AT DRIVEWAY & 8' ON EITHER SIDE
 - REMOVE & REPLACE CURB AND GUTTER
 - 1 1/2" BITUMINOUS OVERLAY
 - 1 1/2" TAPERED MILL
 - REMOVE & REPLACE BITUMINOUS PAVEMENT
 - REMOVE & REPLACE CONCRETE DRIVEWAY PAVEMENT
 - MUDJACK CONCRETE VALLEY GUTTER



SCALE:
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PLAN BY:
KEA

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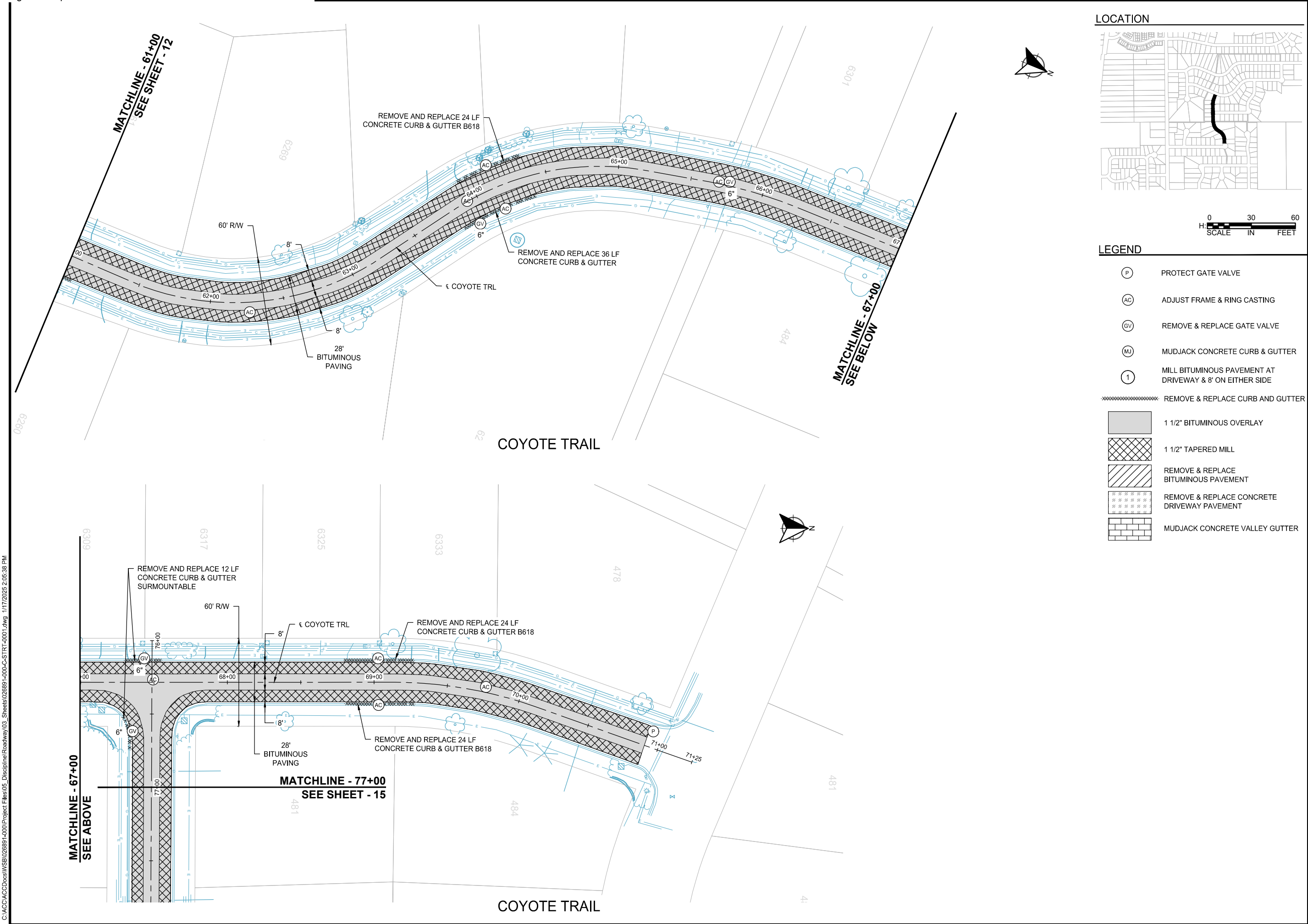


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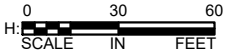
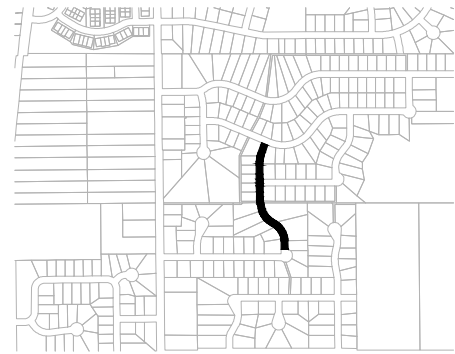
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STREET
CONSTRUCTION
PLAN

2025 STREET REHABILITATION PROJECT
CITY OF LINO LAKES



LOCATION



LEGEND

- (P) PROTECT GATE VALVE
- (AC) ADJUST FRAME & RING CASTING
- (GV) REMOVE & REPLACE GATE VALVE
- (MJ) MUDJACK CONCRETE CURB & GUTTER
- (1) MILL BITUMINOUS PAVEMENT AT DRIVEWAY & 8' ON EITHER SIDE
- REMOVE & REPLACE CURB AND GUTTER
- [Solid Gray Box] 1 1/2" BITUMINOUS OVERLAY
- [Cross-hatch Box] 1 1/2" TAPERED MILL
- [Diagonal Hatch Box] REMOVE & REPLACE BITUMINOUS PAVEMENT
- [Stippled Box] REMOVE & REPLACE CONCRETE DRIVEWAY PAVEMENT
- [Brick Pattern Box] MUDJACK CONCRETE VALLEY GUTTER



SCALE: AS SHOWN
PLAN BY: KEA
DESIGN BY: DLH
CHECK BY: PTH

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STREET
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PLAN

2025 STREET REHABILITATION PROJECT
CITY OF LINO LAKES

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026891-000

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(P)	PROTECT GATE VALVE
(AC)	ADJUST FRAME & RING CASTING
(GV)	REMOVE & REPLACE GATE VALVE
(MJ)	MUDJACK CONCRETE CURB & GUTTER
(1)	MILL BITUMINOUS PAVEMENT AT DRIVEWAY & 8' ON EITHER SIDE

-
- The diagram illustrates the cross-section of a road construction project. It shows a series of layers and materials, each with a corresponding text label to its right. The layers are represented by different patterns and colors:
- REMOVE & REPLACE CURB AND GUTTER**: Indicated by a row of small circles at the top left.
 - 1 1/2" BITUMINOUS OVERLAY**: Indicated by a solid gray rectangle.
 - 1 1/2" TAPERED MILL**: Indicated by a rectangle with a diamond pattern.
 - REMOVE & REPLACE BITUMINOUS PAVEMENT**: Indicated by a rectangle with diagonal lines.
 - REMOVE & REPLACE CONCRETE DRIVEWAY PAVEMENT**: Indicated by a rectangle with a cross-hatch pattern.
 - MUDJACK CONCRETE VALLEY GUTTER**: Indicated by a rectangle with a brick pattern at the bottom.

SCALE:	DESIGN BY:
AS SHOWN	DLH
PLAN BY:	CHECK BY:
KEA	PTH

[illegible]

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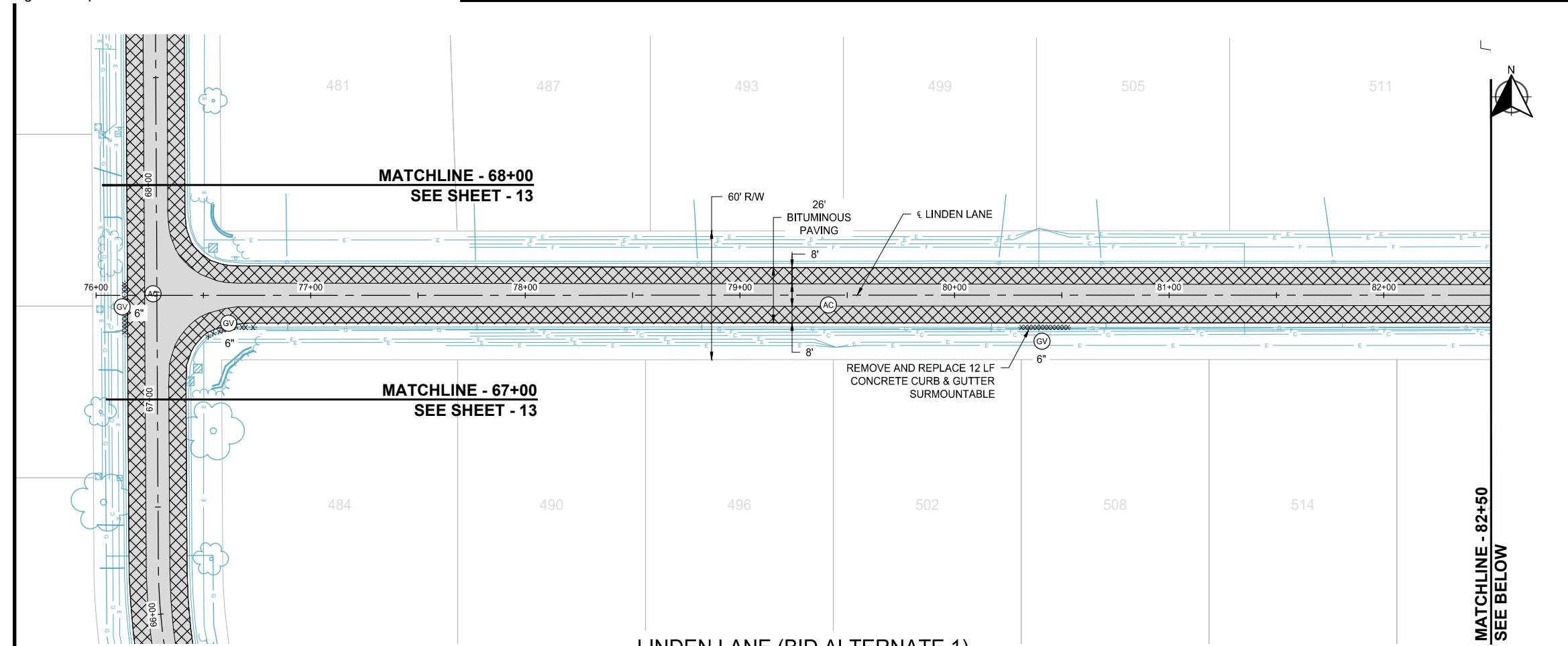
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STREET CONSTRUCTION PLAN

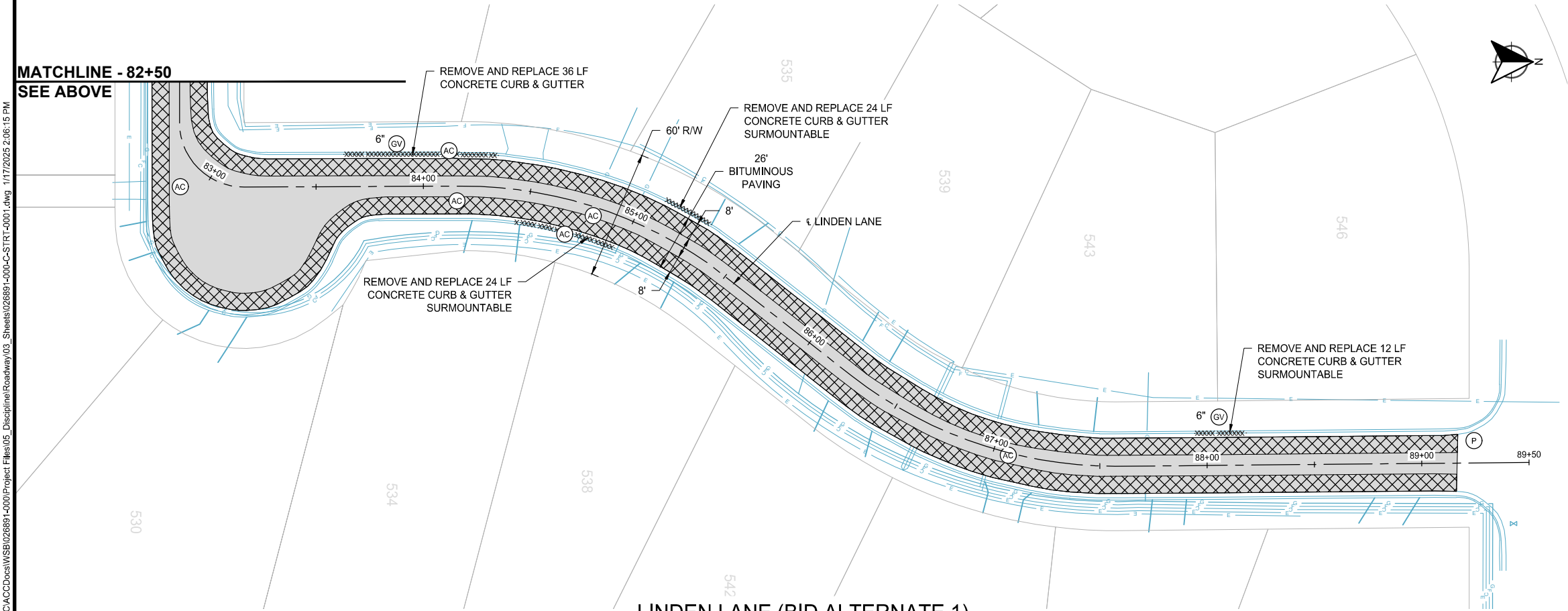
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CITY OF LINO LAKES

WSB PROJECT NO.
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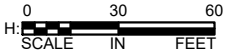
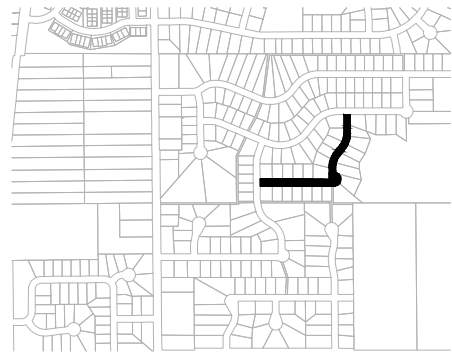


LINDEN LANE (BID ALTERNATE 1)



LINDEN LANE (BID ALTERNATE 1)

LOCATION



LEGEND

- (P) PROTECT GATE VALVE
- (AC) ADJUST FRAME & RING CASTING
- (GV) REMOVE & REPLACE GATE VALVE
- (MJ) MUDJACK CONCRETE CURB & GUTTER
- (1) MILL BITUMINOUS PAVEMENT AT DRIVEWAY & 8' ON EITHER SIDE
- REMOVE & REPLACE CURB AND GUTTER
- 1 1/2" BITUMINOUS OVERLAY
- 1 1/2" TAPERED MILL
- REMOVE & REPLACE BITUMINOUS PAVEMENT
- REMOVE & REPLACE CONCRETE DRIVEWAY PAVEMENT
- MUDJACK CONCRETE VALLEY GUTTER



SCALE: AS SHOWN
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Diane Hanke

DIANE L. HANKEE

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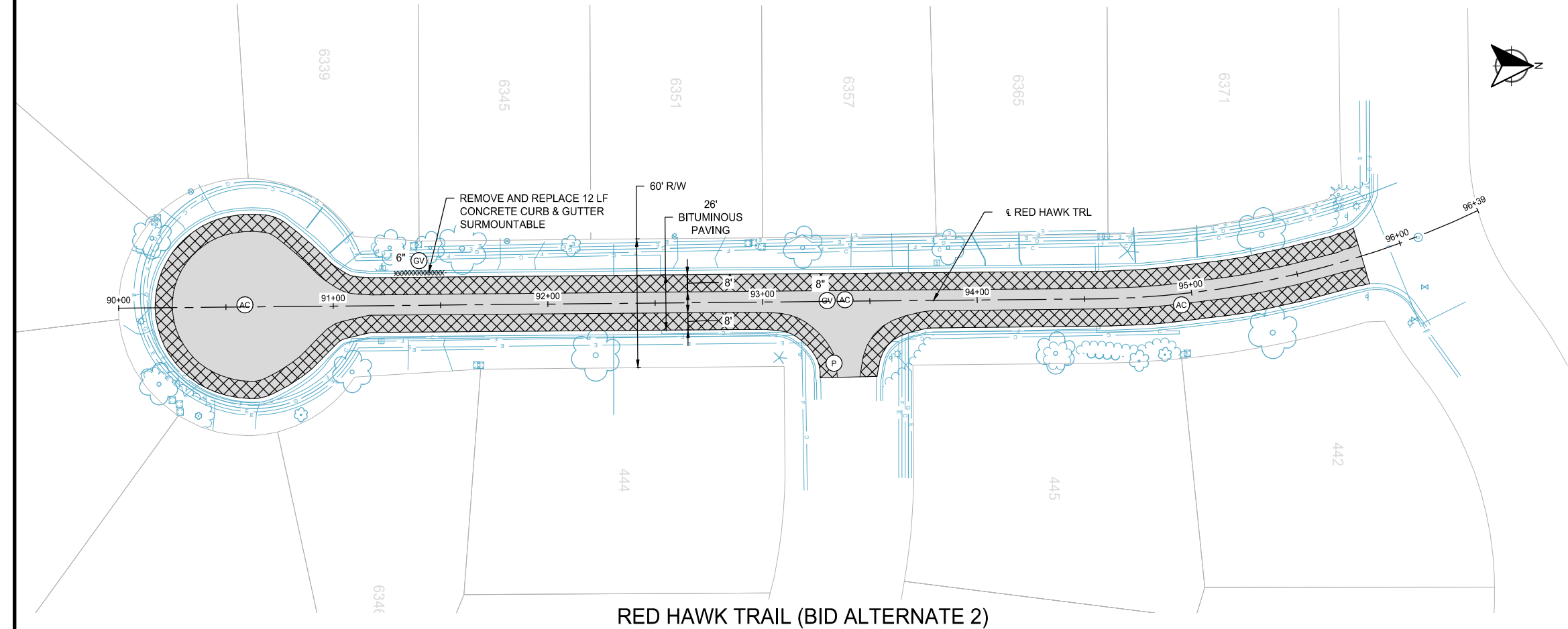
BID ALTERNATE STREET CONSTRUCTION PLAN

2025 STREET REHABILITATION PROJECT
CITY OF LINO LAKES

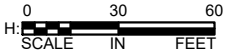
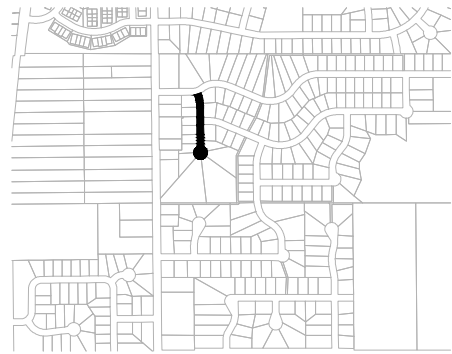
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026891-000

SHEET

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LOCATION



LEGEND

- (P) PROTECT GATE VALVE
- (AC) ADJUST FRAME & RING CASTING
- (GV) REMOVE & REPLACE GATE VALVE
- (MJ) MUDJACK CONCRETE CURB & GUTTER
- (1) MILL BITUMINOUS PAVEMENT AT DRIVEWAY & 8' ON EITHER SIDE
- REMOVE & REPLACE CURB AND GUTTER
- 1 1/2" BITUMINOUS OVERLAY
- 1 1/2" TAPERED MILL
- REMOVE & REPLACE BITUMINOUS PAVEMENT
- REMOVE & REPLACE CONCRETE DRIVEWAY PAVEMENT
- MUDJACK CONCRETE VALLEY GUTTER



SCALE: AS SHOWN
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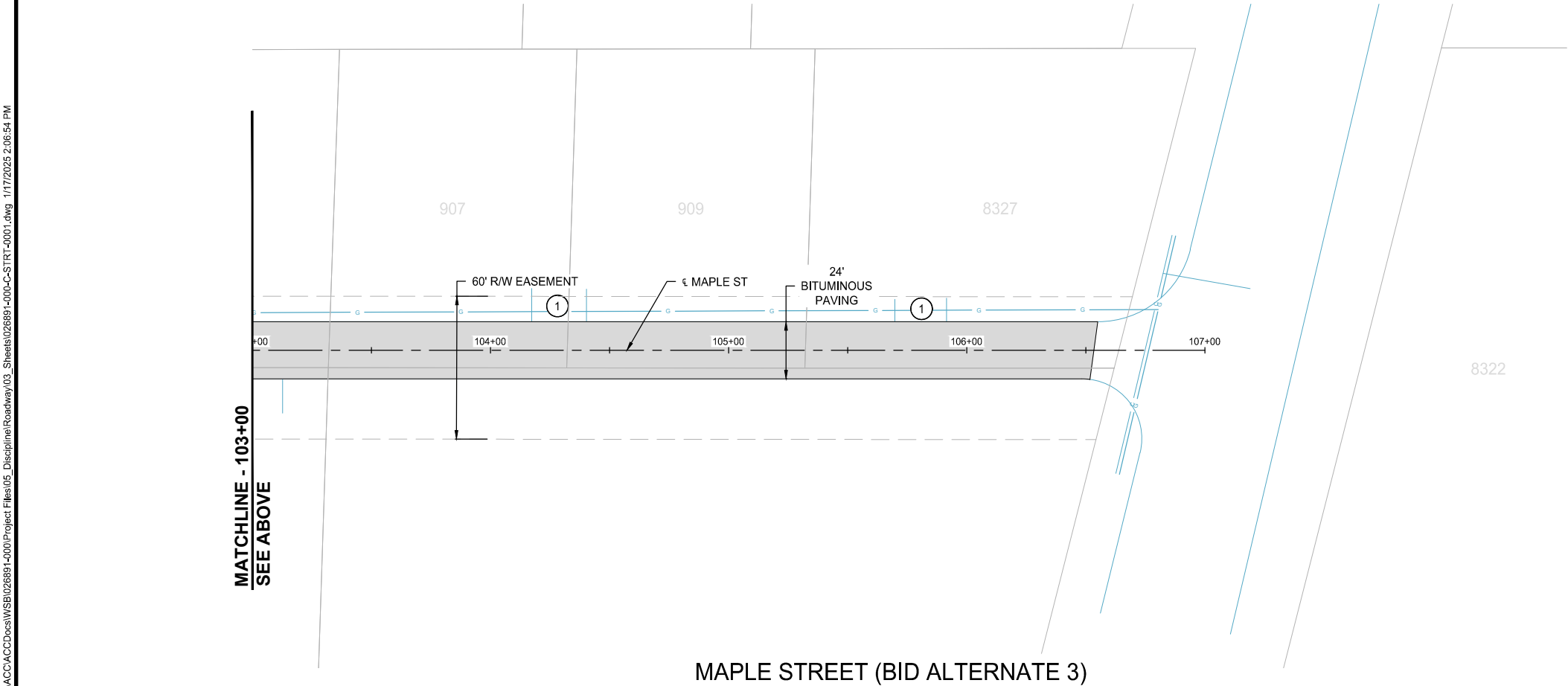
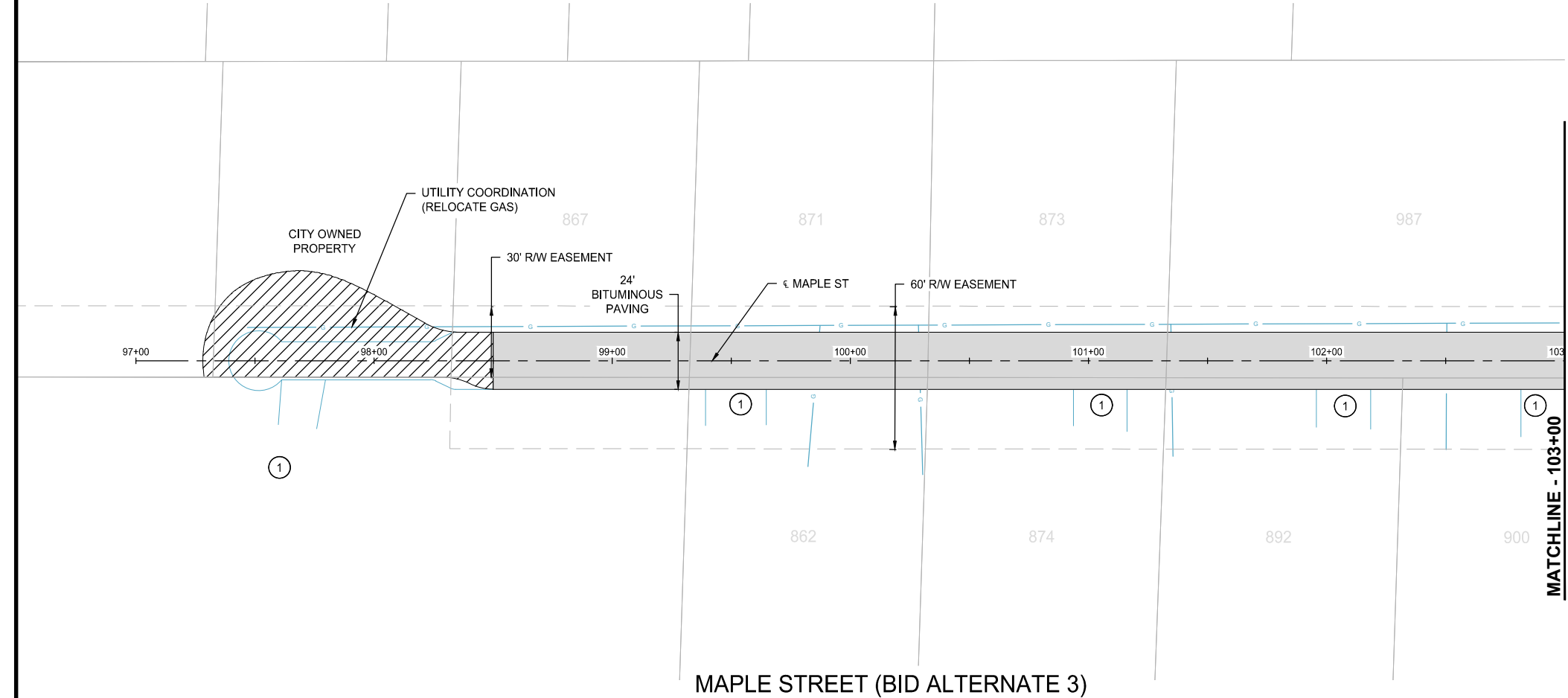
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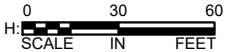
WSB PROJECT NO.
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SHEET

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LOCATION



LEGEND

- (P) PROTECT GATE VALVE
- (AC) ADJUST FRAME & RING CASTING
- (GV) REMOVE & REPLACE GATE VALVE
- (MJ) MUDJACK CONCRETE CURB & GUTTER
- (1) MILL BITUMINOUS PAVEMENT AT DRIVEWAY & 8' ON EITHER SIDE
- REMOVE & REPLACE CURB AND GUTTER
- [Solid Gray Box] 1 1/2" BITUMINOUS OVERLAY
- [Cross-hatch Box] 1 1/2" TAPERED MILL
- [Diagonal Hatch Box] REMOVE & REPLACE BITUMINOUS PAVEMENT
- [Stippled Box] REMOVE & REPLACE CONCRETE DRIVEWAY PAVEMENT
- [Brick Pattern Box] MUDJACK CONCRETE VALLEY GUTTER



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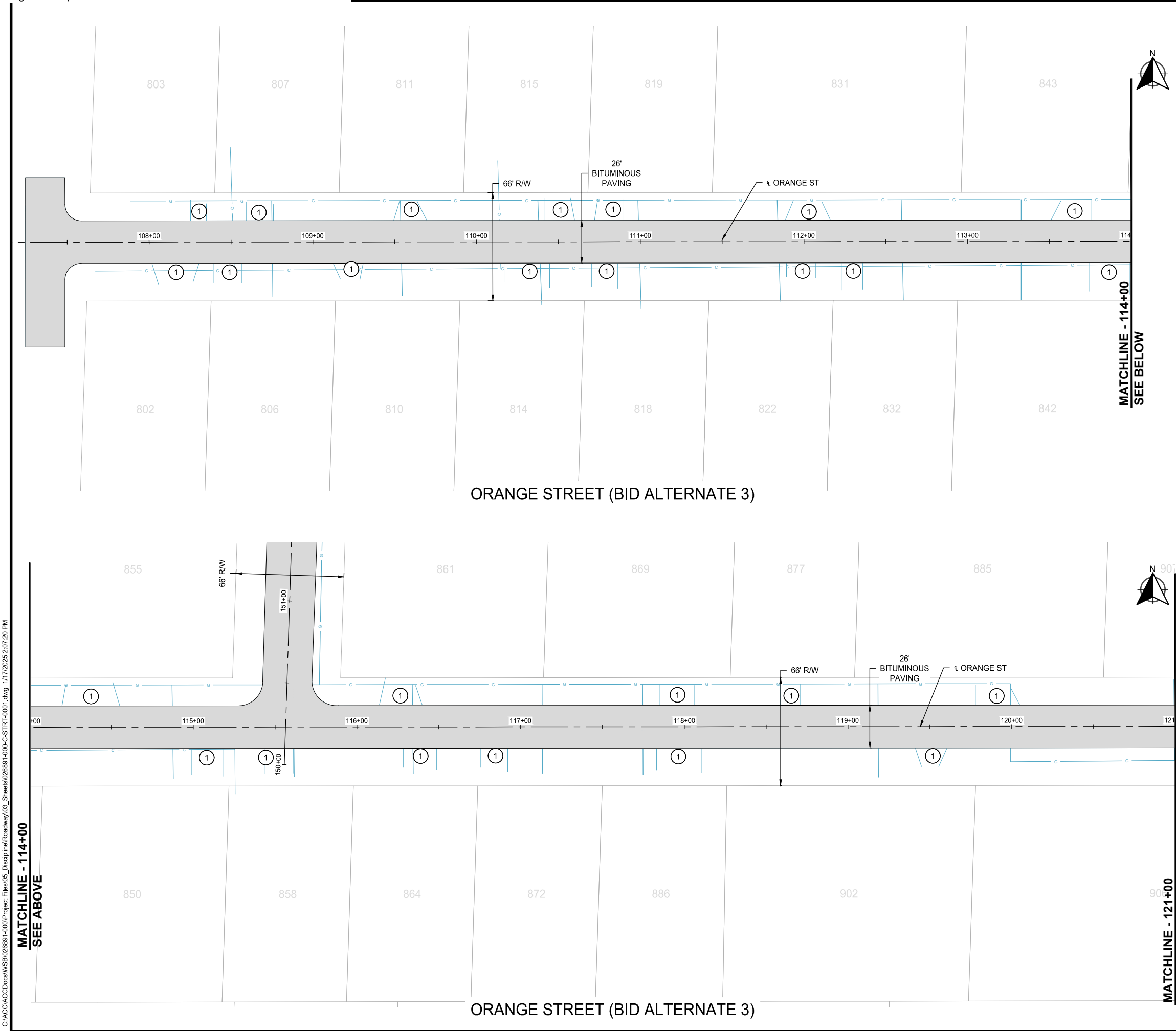
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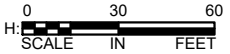
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026891-000

SHEET

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LOCATION



LEGEND

- (P) PROTECT GATE VALVE
- (AC) ADJUST FRAME & RING CASTING
- (GV) REMOVE & REPLACE GATE VALVE
- (MJ) MUDJACK CONCRETE CURB & GUTTER
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- REMOVE & REPLACE CURB AND GUTTER
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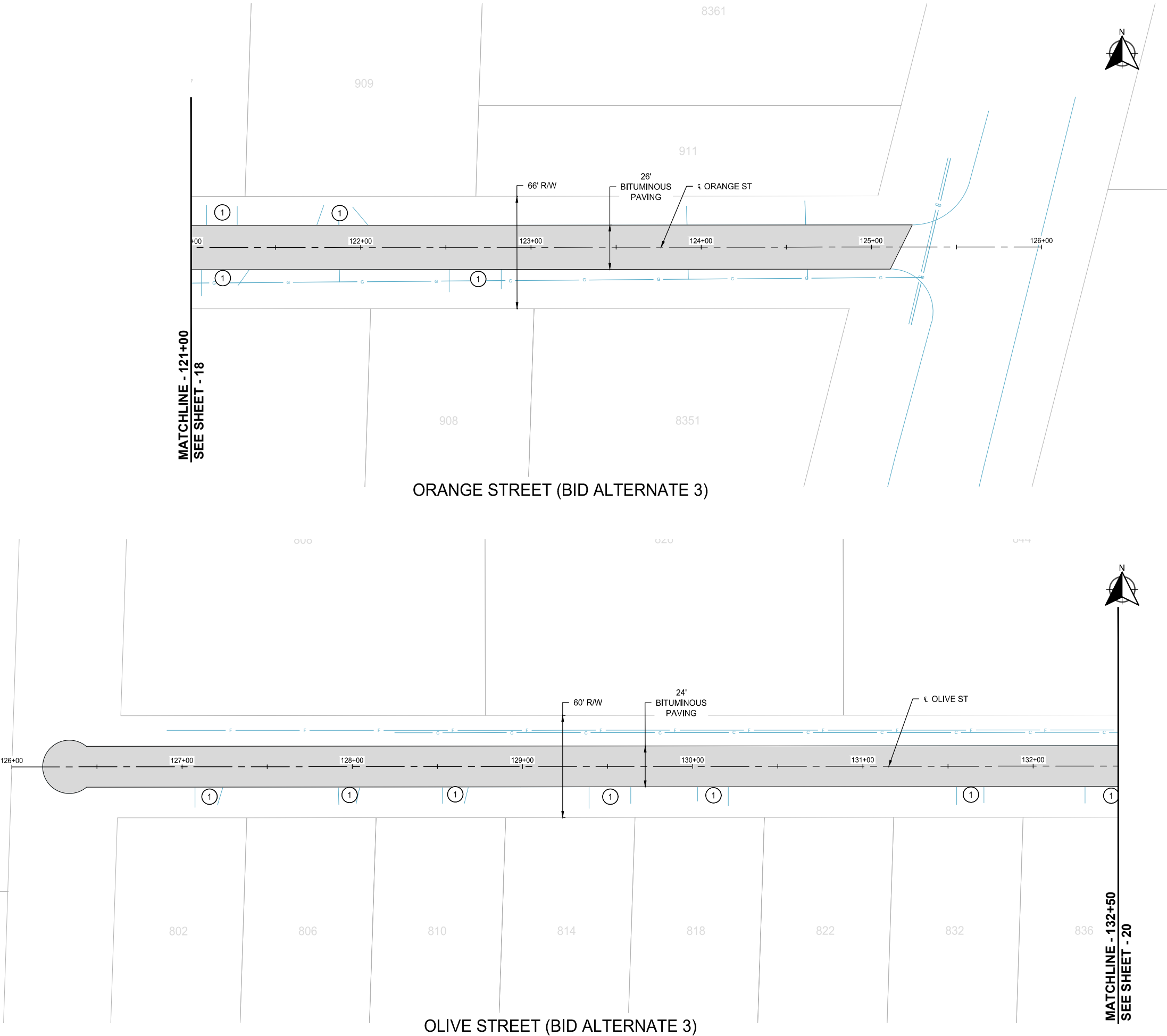
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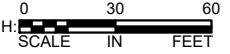
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LOCATION



LEGEND

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- (GV) REMOVE & REPLACE GATE VALVE
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- [Stippled Box] REMOVE & REPLACE CONCRETE DRIVEWAY PAVEMENT
- [Brick Pattern Box] MUDJACK CONCRETE VALLEY GUTTER



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2025 STREET REHABILITATION PROJECT
CITY OF LINO LAKES

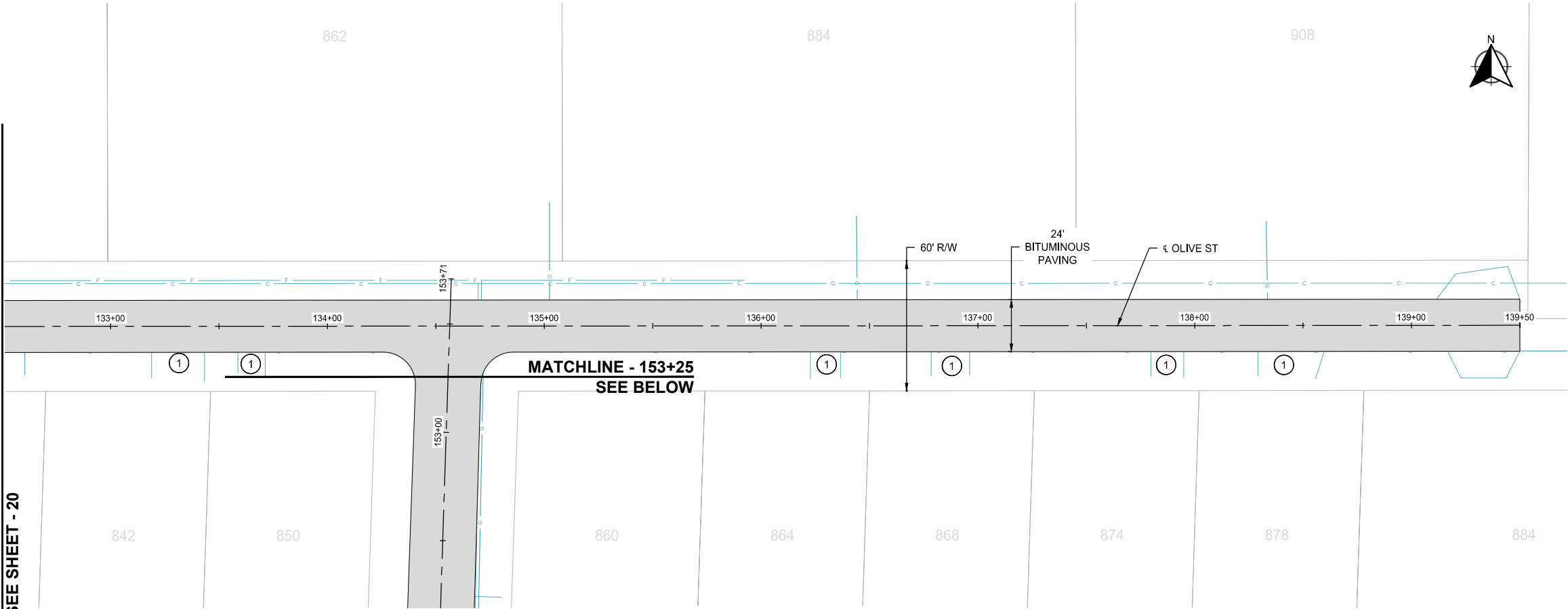
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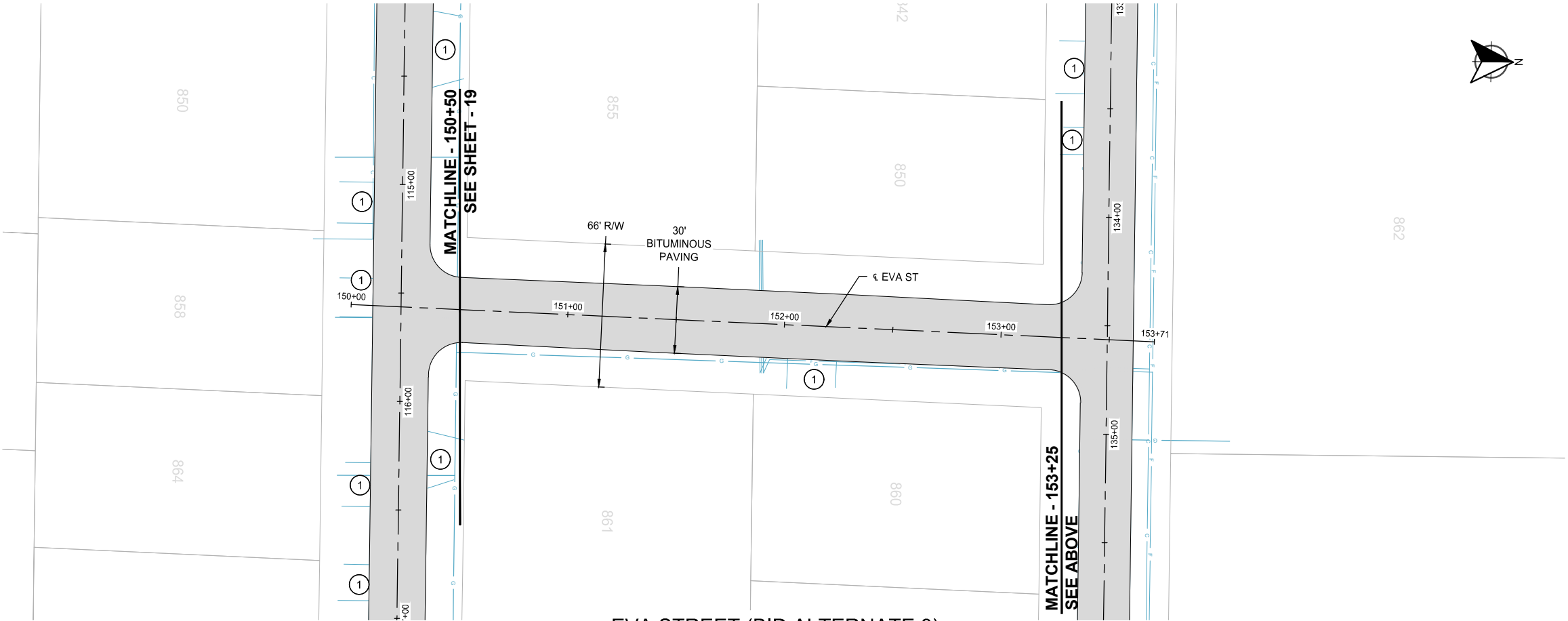
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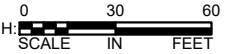


OLIVE STREET (BID ALTERNATE 3)



EVA STREET (BID ALTERNATE 3)

LOCATION



LEGEND

- (P) PROTECT GATE VALVE
- (AC) ADJUST FRAME & RING CASTING
- (GV) REMOVE & REPLACE GATE VALVE
- (MJ) MUDJACK CONCRETE CURB & GUTTER
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- [Diagonal Hatch Box] REMOVE & REPLACE BITUMINOUS PAVEMENT
- [Stippled Box] REMOVE & REPLACE CONCRETE DRIVEWAY PAVEMENT
- [Brick Pattern Box] MUDJACK CONCRETE VALLEY GUTTER



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BID ALTERNATE
STREET
CONSTRUCTION
PLAN

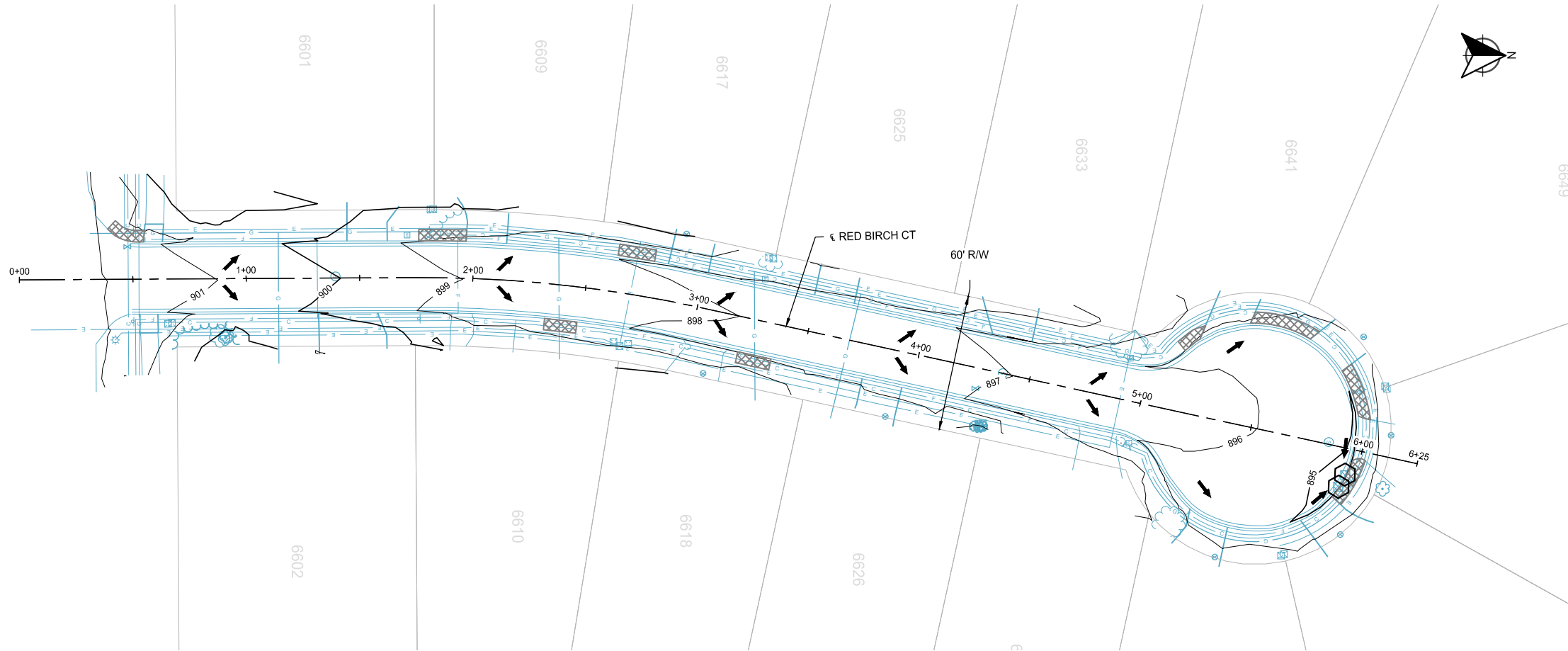
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CITY OF LINO LAKES

WSB PROJECT NO.
026891-000

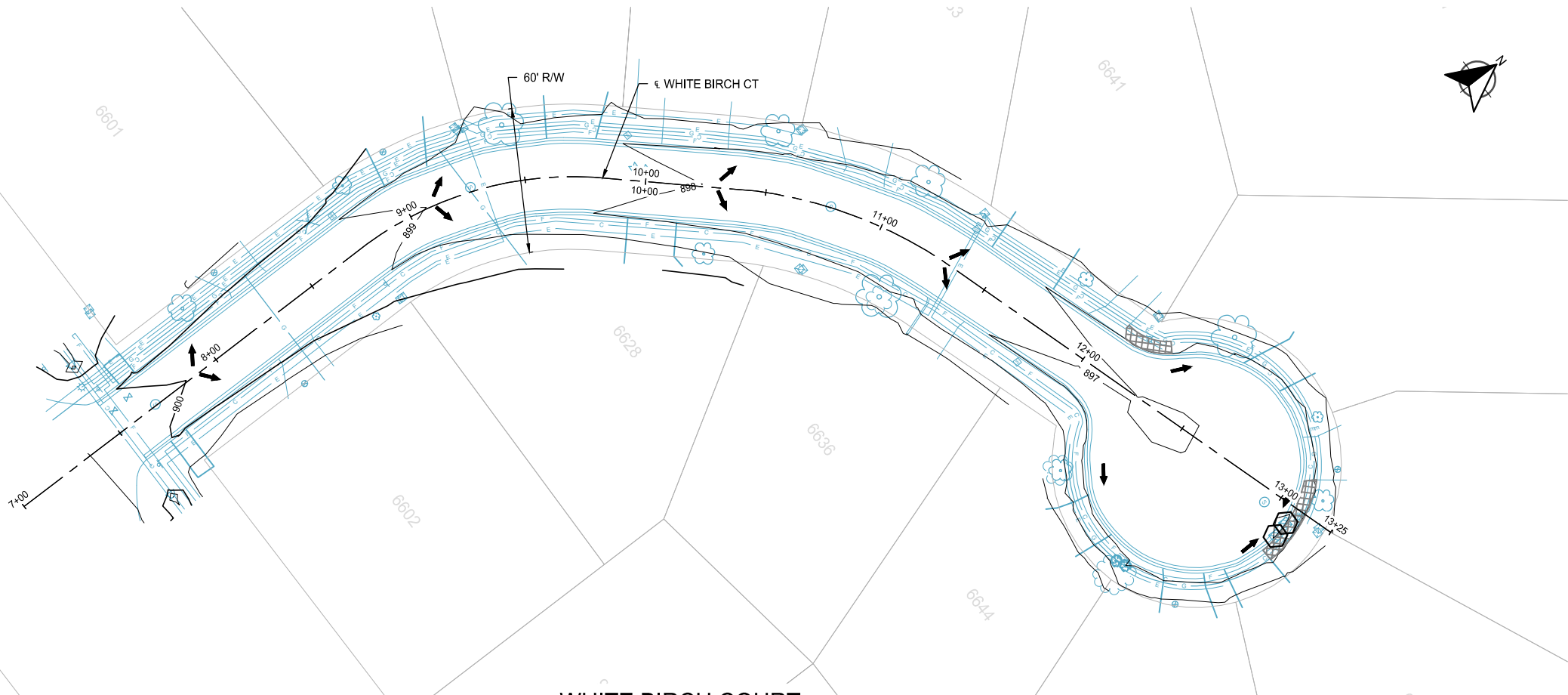
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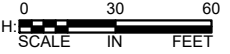
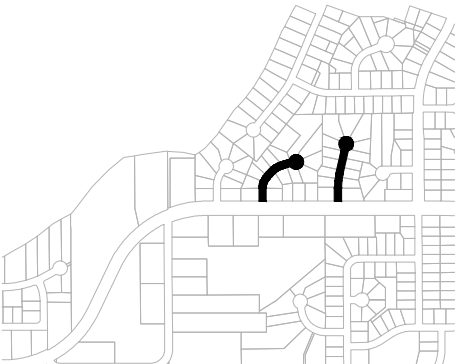


RED BIRCH COURT



WHITE BIRCH COURT

LOCATION



LEGEND

- INLET PROTECTION
- FLOW DIRECTION
- STABILIZED CONTROL LOG
TYPE WOOD FIBER
- STABILIZED CONSTRUCTION EXIT
- SODDING TYPE LAWN
- TEMPORARY SOIL STABILIZATION:
HYDRAULIC STABILIZED FIBER MATRIX
@ 3000 LB/ACRE



SCALE: AS SHOWN
PLAN BY: KEA
DESIGN BY: DLH
CHECK BY: PTH

REVISIONS

NO.	DATE	DESCRIPTION

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Diane Hanke
DIANE L. HANKE

DATE: MM/DD/YYYY LIC. NO.: 43338

EROSION
CONTROL PLAN

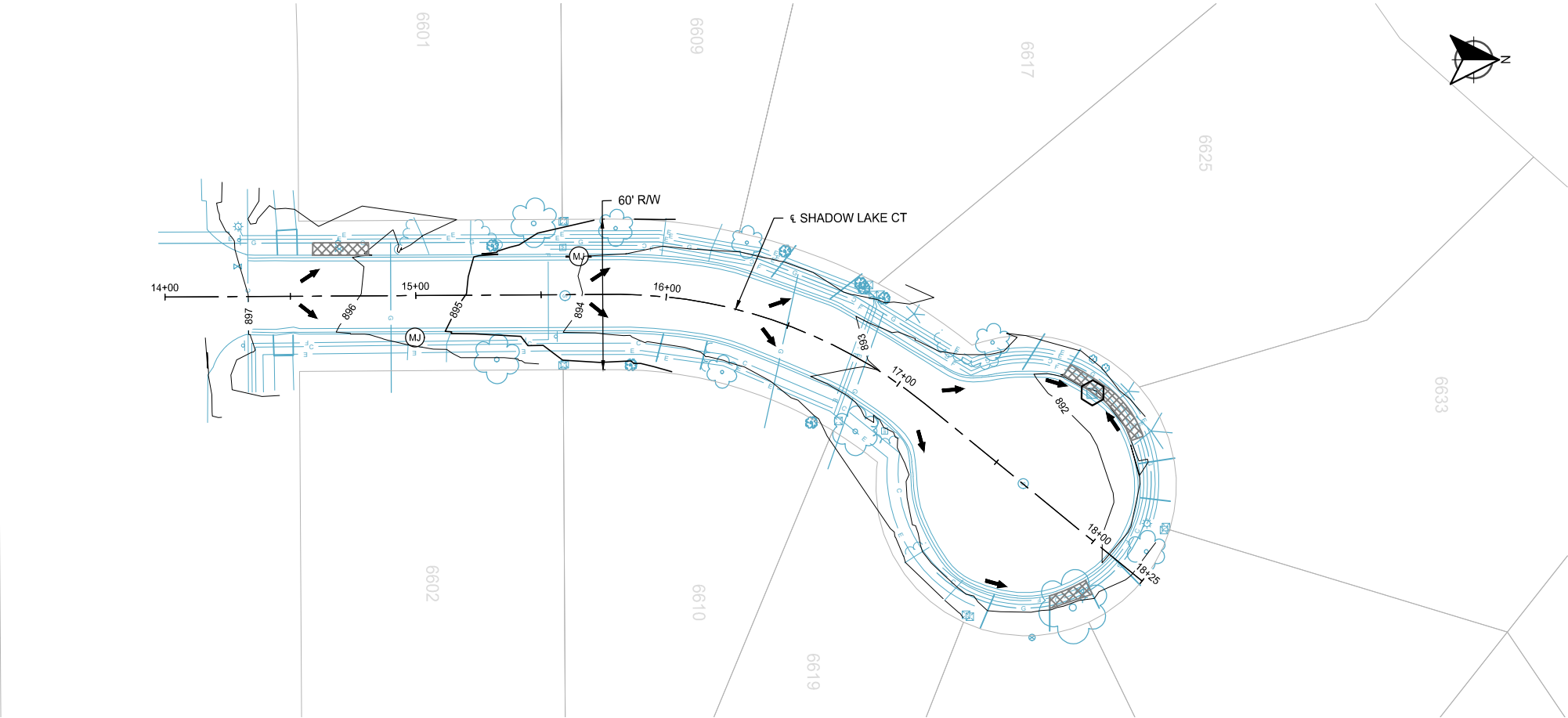
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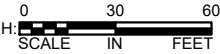
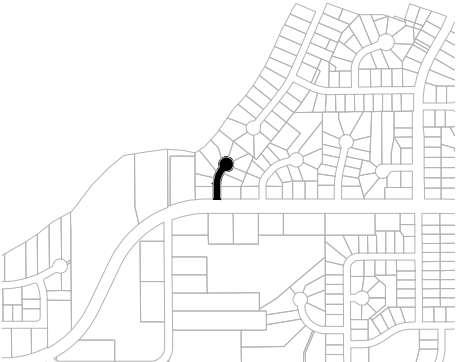
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LOCATION



LEGEND

-  INLET PROTECTION
-  FLOW DIRECTION
-  STABILIZED CONTROL LOG
TYPE WOOD FIBER
-  STABILIZED CONSTRUCTION EXIT
-  SODDING TYPE LAWN
TEMPORARY SOIL STABILIZATION:
HYDRAULIC STABILIZED FIBER MATRIX
@ 3000 LB/ACRE



SCALE: AS SHOWN
PLAN BY: KEA
DESIGN BY: DLH
CHECK BY: PTH

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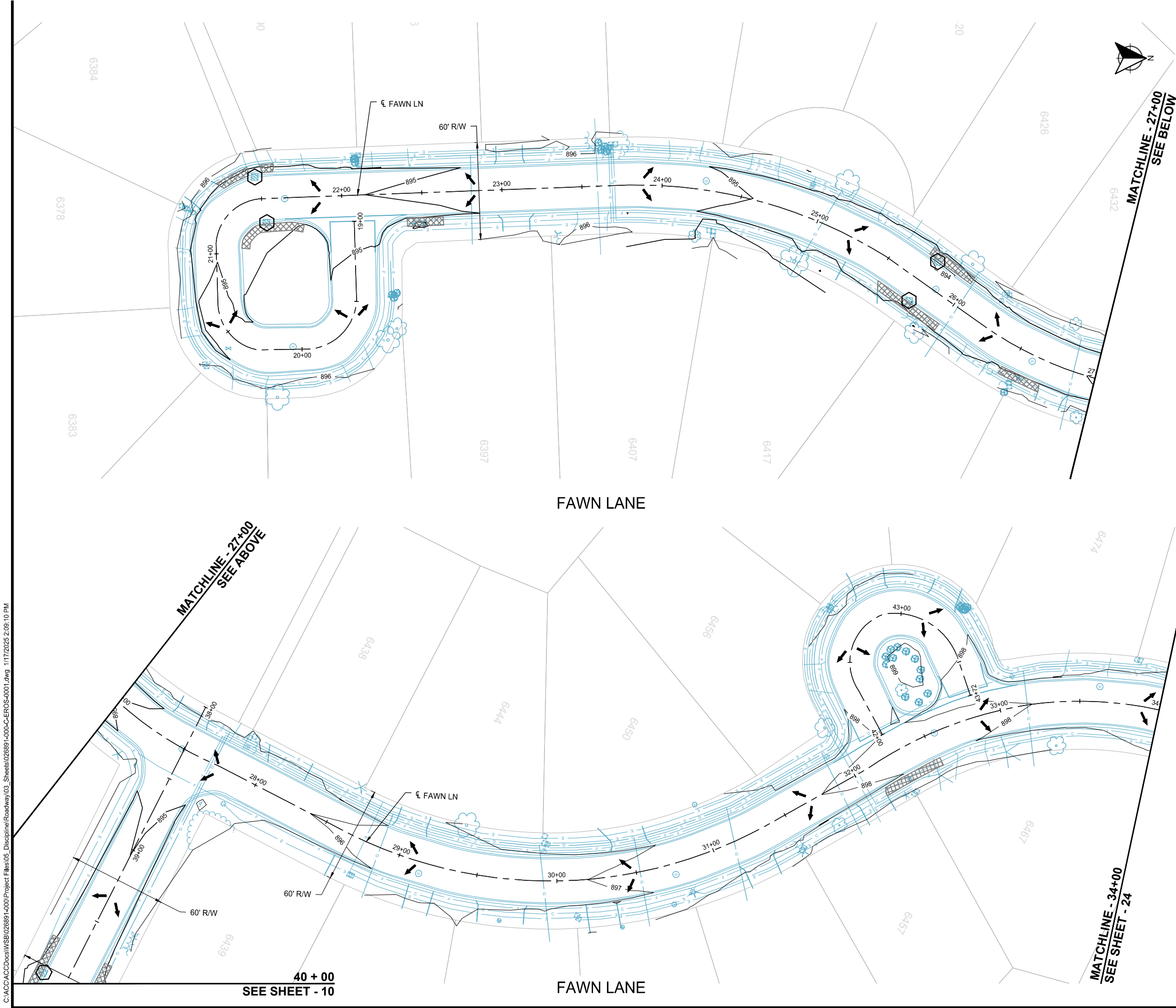
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CITY OF LINO LAKES

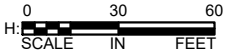
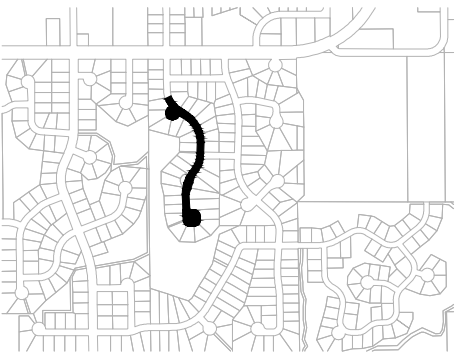
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LOCATION



LEGEND

- INLET PROTECTION
- FLOW DIRECTION
- STABILIZED CONTROL LOG
TYPE WOOD FIBER
- STABILIZED CONSTRUCTION EXIT
- SODDING TYPE LAWN
- TEMPORARY SOIL STABILIZATION:
HYDRAULIC STABILIZED FIBER MATRIX
@ 3000 LB/ACRE



SCALE: AS SHOWN
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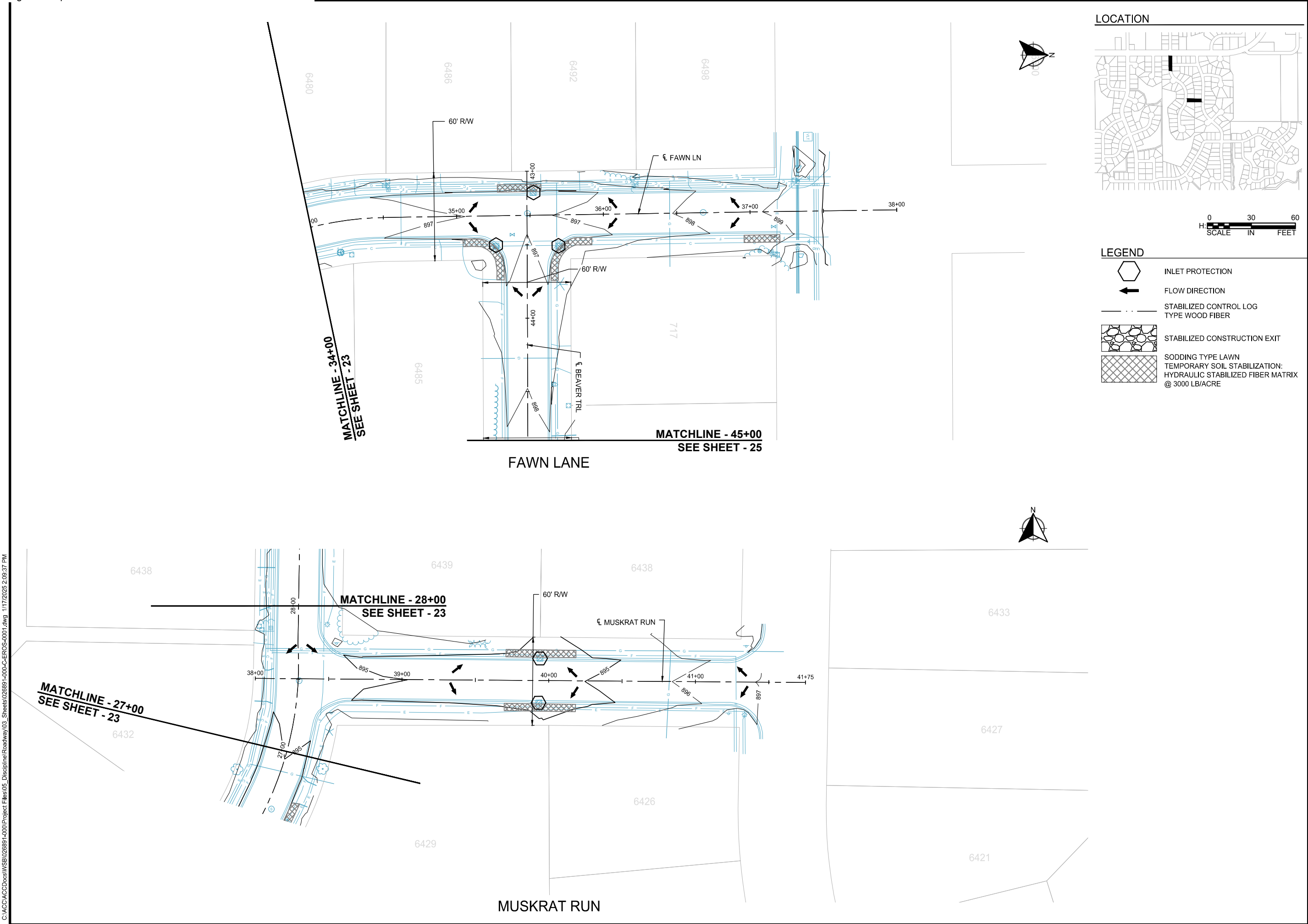
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2025 STREET REHABILITATION PROJECT
CITY OF LINO LAKES

WSB PROJECT NO.
026891-000

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23 OF 34

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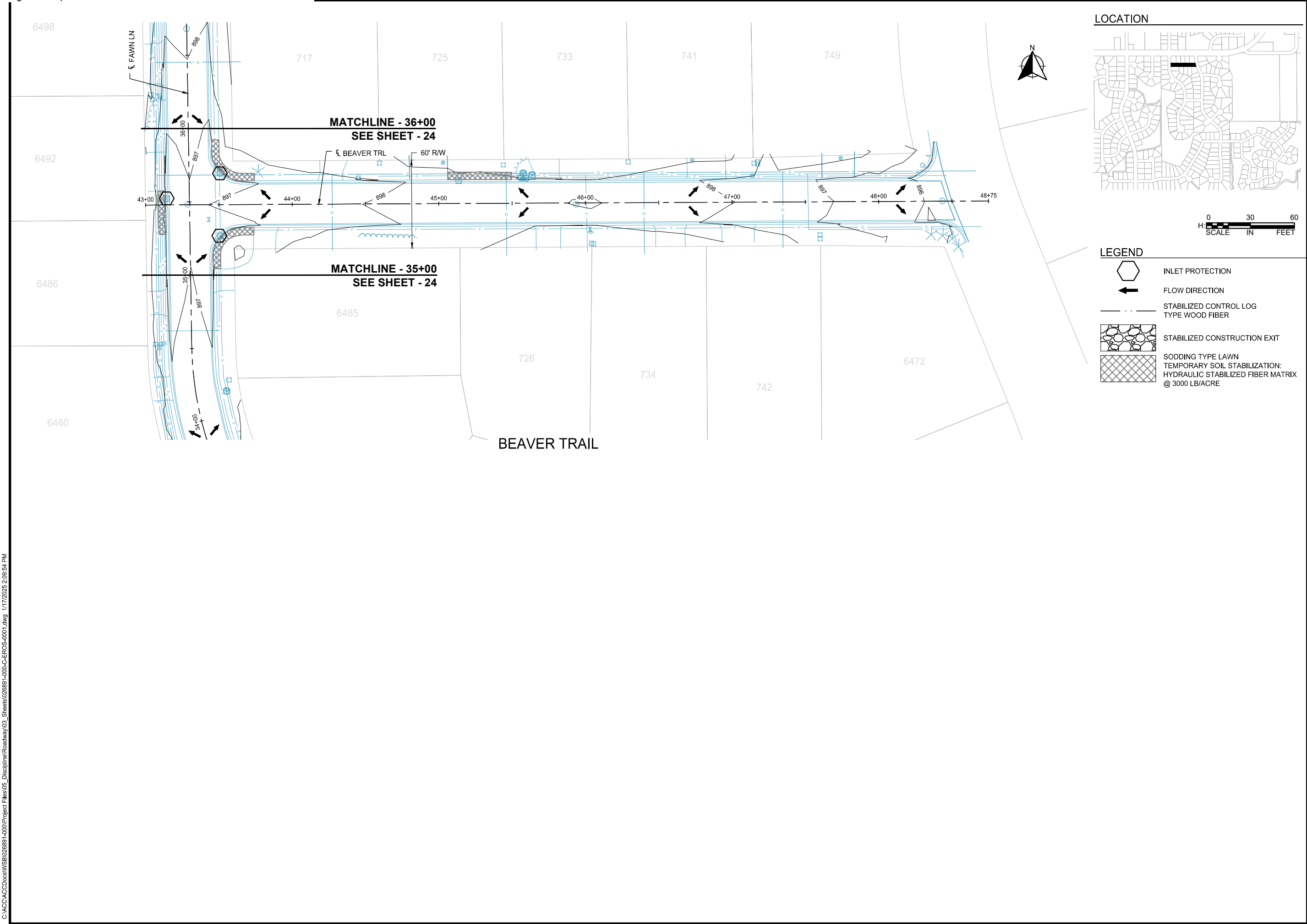
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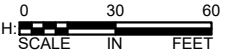
2025 STREET REHABILITATION PROJECT
CITY OF LINO LAKES

WSB PROJECT NO.
026891-000

SHEET
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LOCATION



LEGEND

- INLET PROTECTION
- FLOW DIRECTION
- STABILIZED CONTROL LOG
TYPE WOOD FIBER
- STABILIZED CONSTRUCTION EXIT
- SODDING TYPE LAWN
- TEMPORARY SOIL STABILIZATION:
HYDRAULIC STABILIZED FIBER MATRIX
@ 3000 LB/ACRE



SCALE: AS SHOWN
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EROSION
CONTROL PLAN

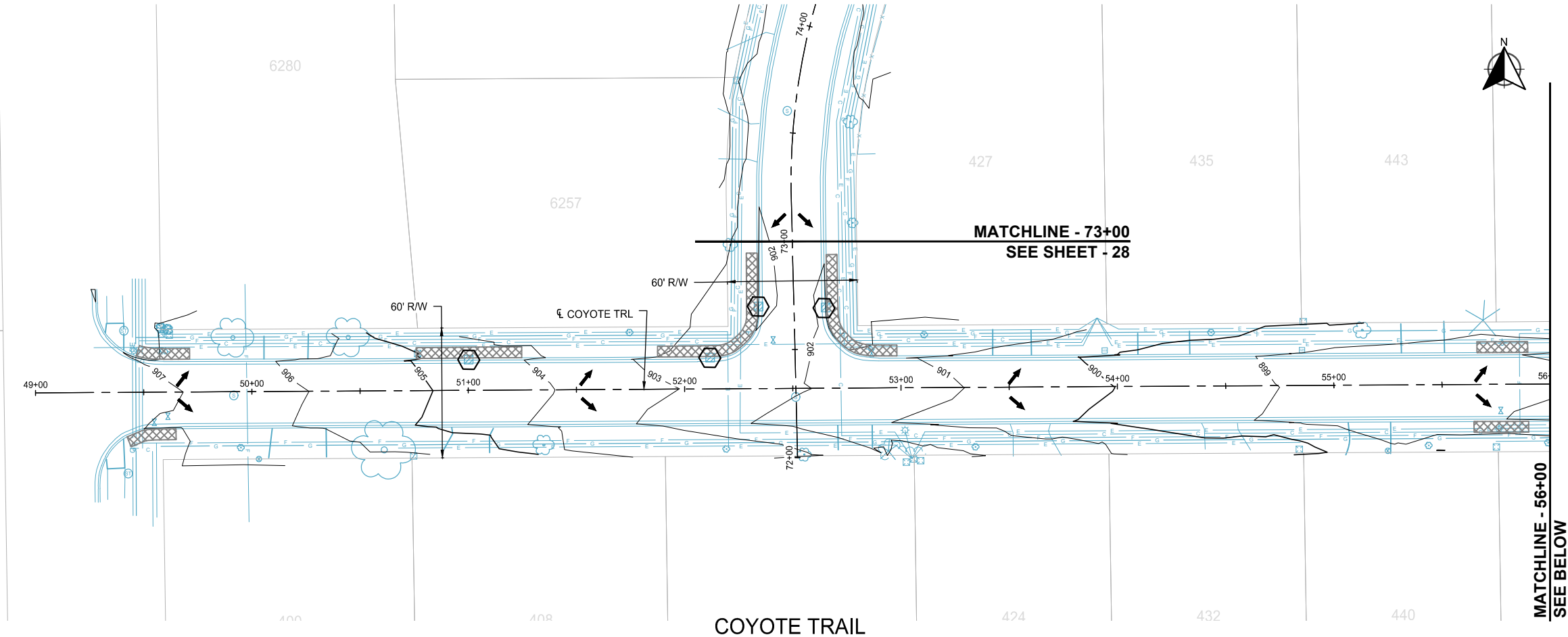
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CITY OF LINO LAKES

WSB PROJECT NO.
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LOCATION



LEGEND

- INLET PROTECTION
- FLOW DIRECTION
- STABILIZED CONTROL LOG
TYPE WOOD FIBER
- STABILIZED CONSTRUCTION EXIT
- SODDING TYPE LAWN
- TEMPORARY SOIL STABILIZATION:
HYDRAULIC STABILIZED FIBER MATRIX
@ 3000 LB/ACRE



SCALE: AS SHOWN
PLAN BY: KEA

DESIGN BY: DLH
CHECK BY: PTH

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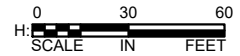
EROSION
CONTROL PLAN

2025 STREET REHABILITATION PROJECT
CITY OF LINO LAKES

WSB PROJECT NO.
026891-000

SHEET

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INLET PROTECTION

FLOW DIRECTION

STABILIZED CONTROL LOG
TYPE WOOD FIBER

STABILIZED CONSTRUCTION EXIT

SODDING TYPE LAWN

TEMPORARY SOIL STABILIZATION:
HYDRAULIC STABILIZED FIBER MATRIX
@ 3000 LB/ACRE





SCALE: AS SHOWN

PLAN BY: KEA

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Diane Hawke

DIANE L. HAWKE

DATE: MM/DD/YYYY

U.C. NO: 43338

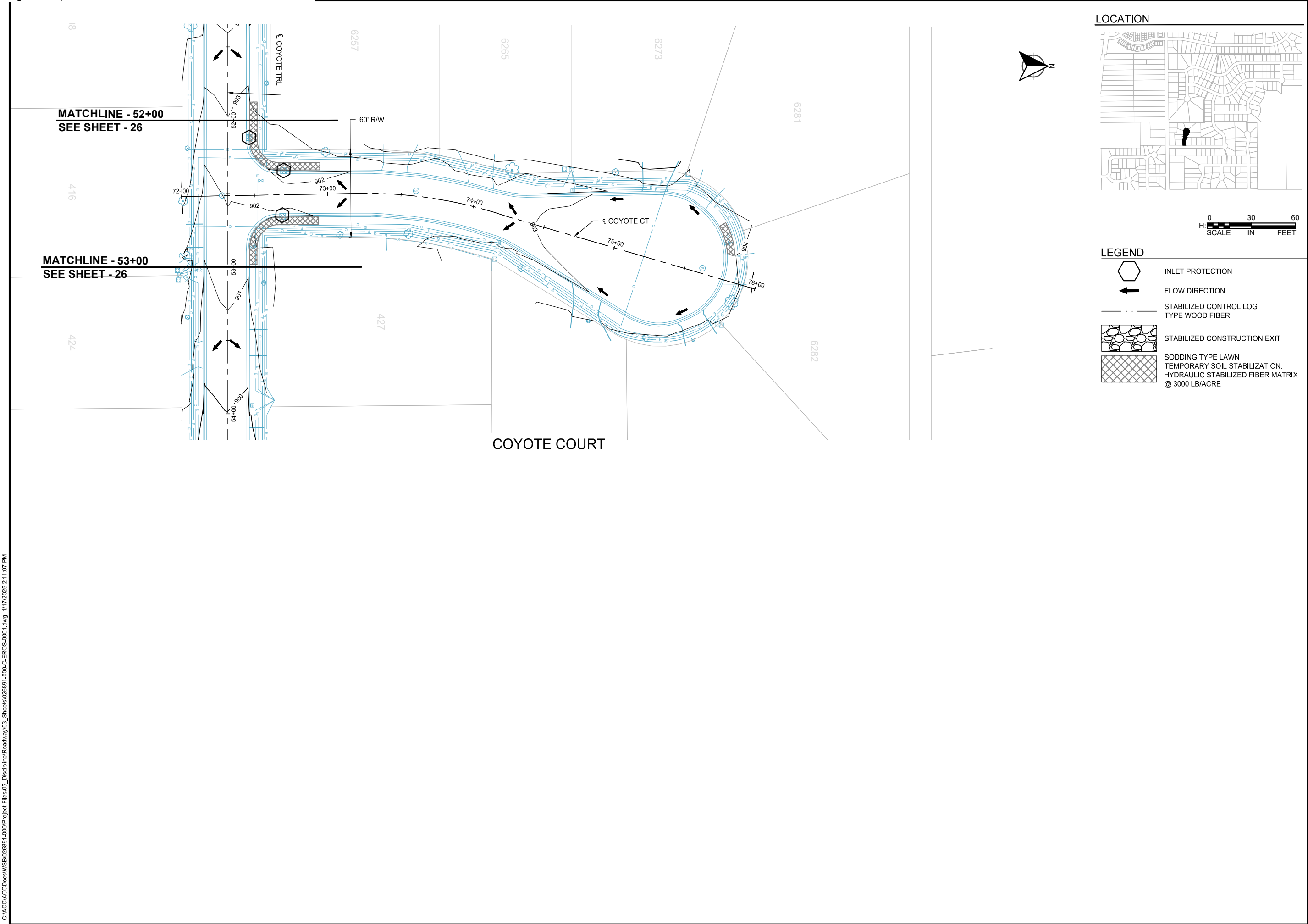
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CITY OF LINO LAKES

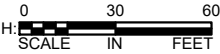
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LOCATION



LEGEND

- INLET PROTECTION
- FLOW DIRECTION
- STABILIZED CONTROL LOG
TYPE WOOD FIBER
- STABILIZED CONSTRUCTION EXIT
- SODDING TYPE LAWN
TEMPORARY SOIL STABILIZATION:
HYDRAULIC STABILIZED FIBER MATRIX
@ 3000 LB/ACRE



SCALE: AS SHOWN
PLAN BY: KEA

DESIGN BY: DLH
CHECK BY: PTH

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Diane L. Hanke
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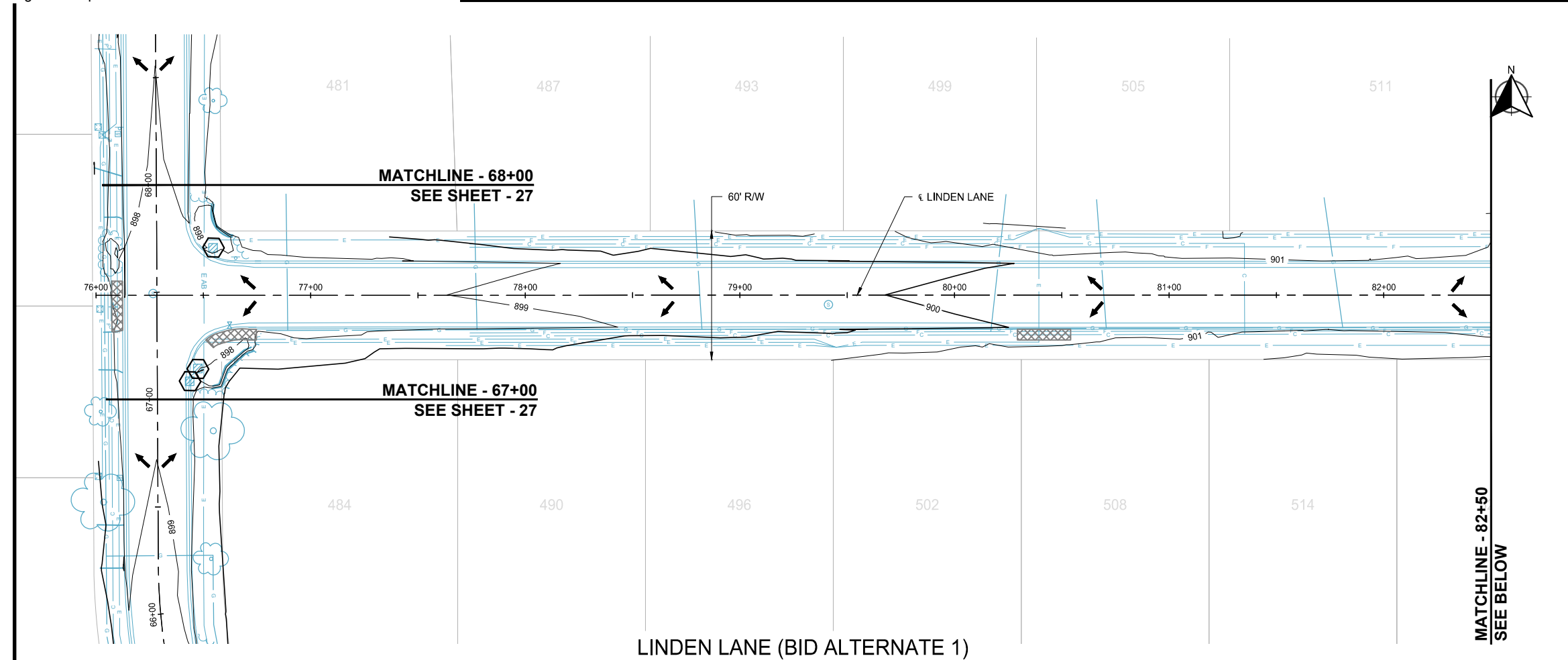
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CITY OF LINO LAKES

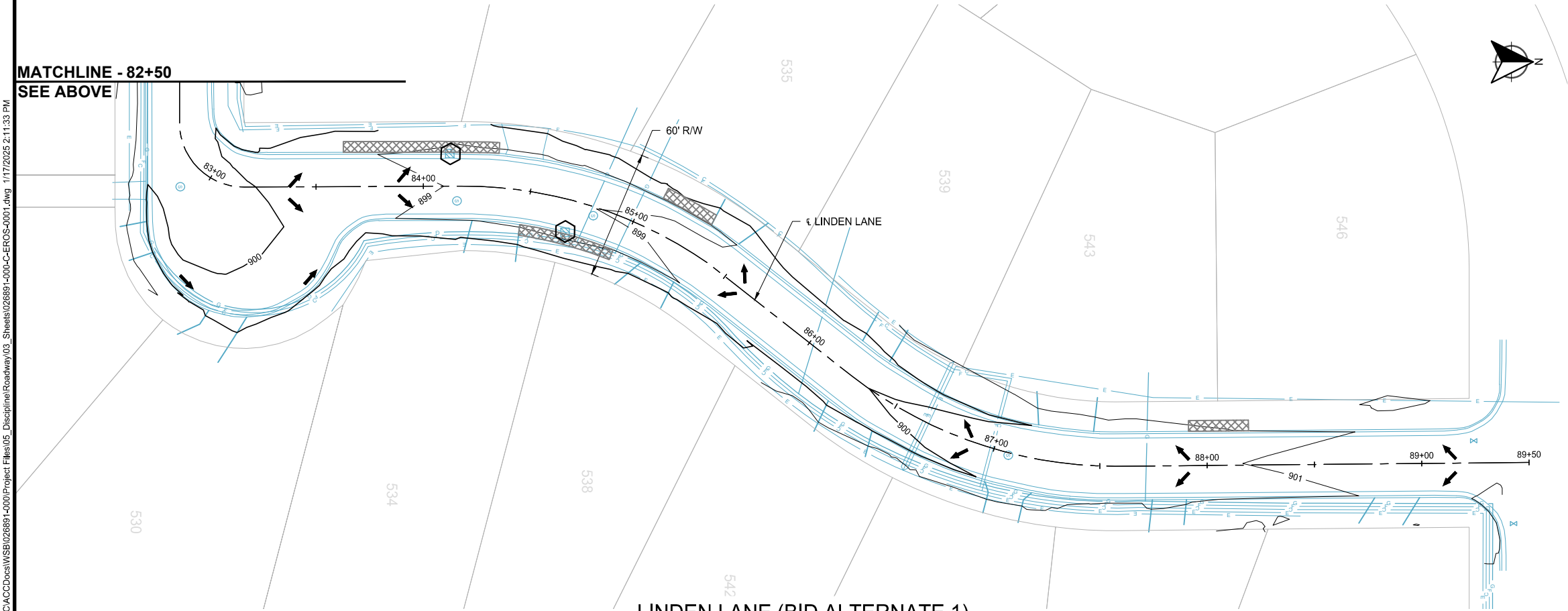
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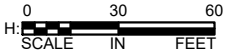
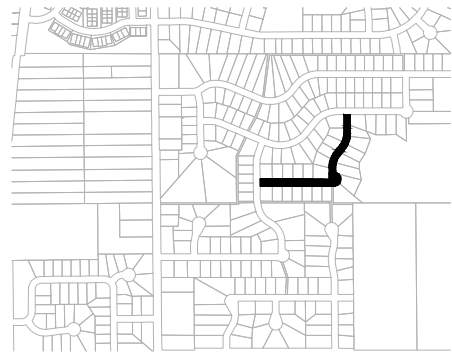


LINDEN LANE (BID ALTERNATE 1)



LINDEN LANE (BID ALTERNATE 1)

LOCATION



LEGEND

- INLET PROTECTION
- FLOW DIRECTION
- STABILIZED CONTROL LOG
TYPE WOOD FIBER
- STABILIZED CONSTRUCTION EXIT
- SODDING TYPE LAWN
- TEMPORARY SOIL STABILIZATION:
HYDRAULIC STABILIZED FIBER MATRIX
@ 3000 LB/ACRE



SCALE: AS SHOWN
PLAN BY: KEA

DESIGN BY: DLH
CHECK BY: PTH

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DIANE L. HANKEE

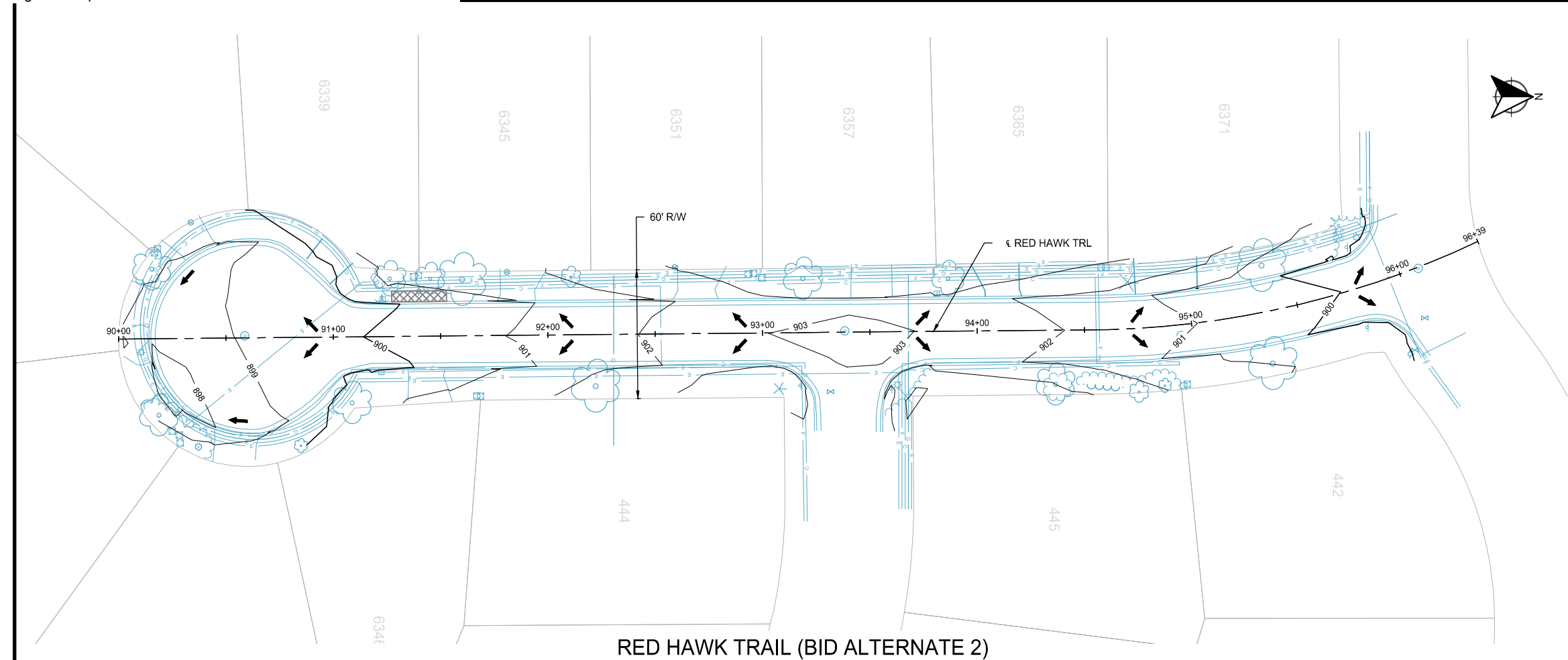
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BID ALTERNATE
EROSION
CONTROL PLAN

2025 STREET REHABILITATION PROJECT
CITY OF LINO LAKES

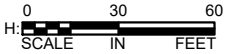
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RED HAWK TRAIL (BID ALTERNATE 2)

LOCATION



LEGEND

- INLET PROTECTION
- FLOW DIRECTION
- STABILIZED CONTROL LOG
TYPE WOOD FIBER
- STABILIZED CONSTRUCTION EXIT
- SODDING TYPE LAWN
TEMPORARY SOIL STABILIZATION:
HYDRAULIC STABILIZED FIBER MATRIX
@ 3000 LB/ACRE



SCALE: AS SHOWN
PLAN BY: KEA

DESIGN BY: DLH
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Diane L. Hanke
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DATE: MM/DD/YYYY LIC. NO. 43338

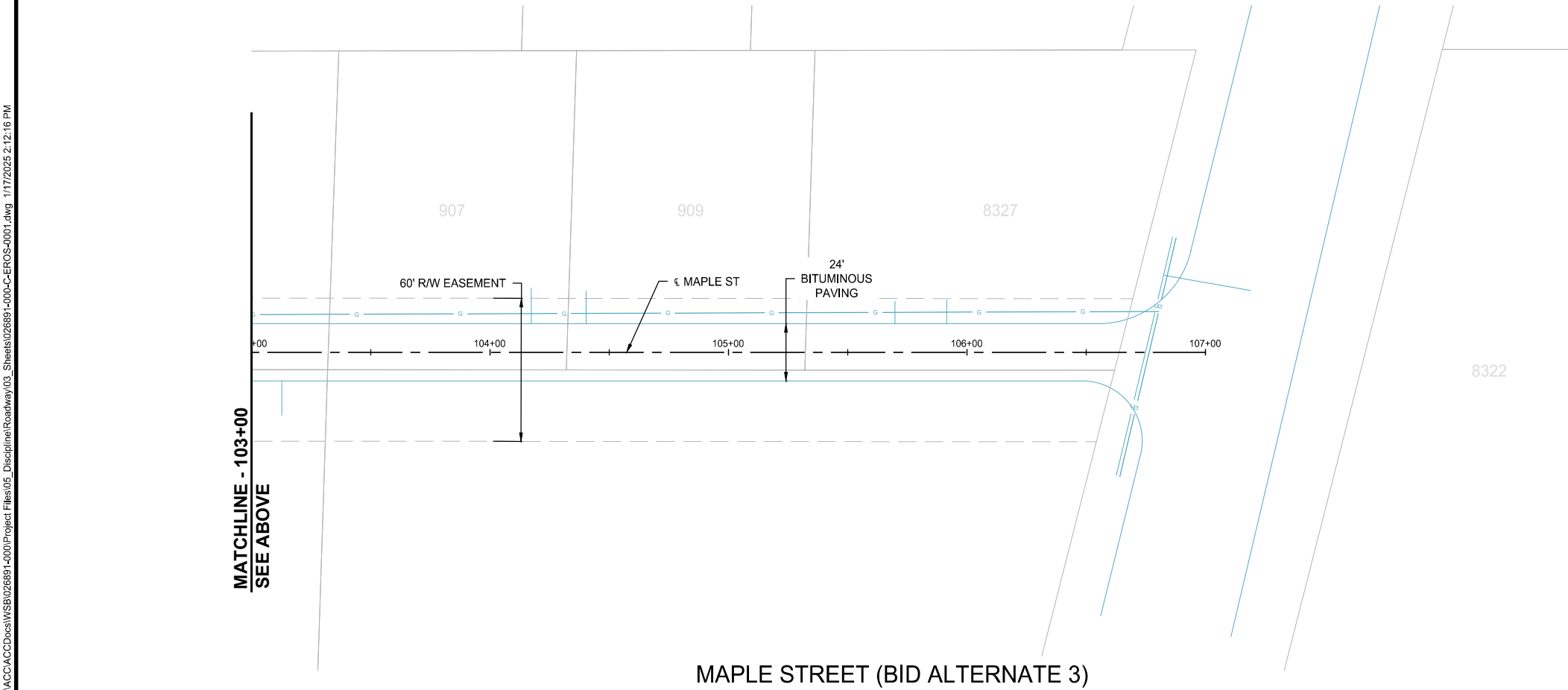
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EROSION
CONTROL PLAN

2025 STREET REHABILITATION PROJECT
CITY OF LINO LAKES

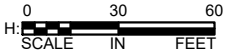
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SHEET

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LOCATION



LEGEND

- INLET PROTECTION
- FLOW DIRECTION
- STABILIZED CONTROL LOG
TYPE WOOD FIBER
- STABILIZED CONSTRUCTION EXIT
- SODDING TYPE LAWN
- TEMPORARY SOIL STABILIZATION:
HYDRAULIC STABILIZED FIBER MATRIX
@ 3000 LB/ACRE



SCALE: AS SHOWN
PLAN BY: KEA
DESIGN BY: DLH
CHECK BY: PTH

REVISIONS	
NO.	DESCRIPTION

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DATE: MM/DD/YYYY LIC. NO. 43338

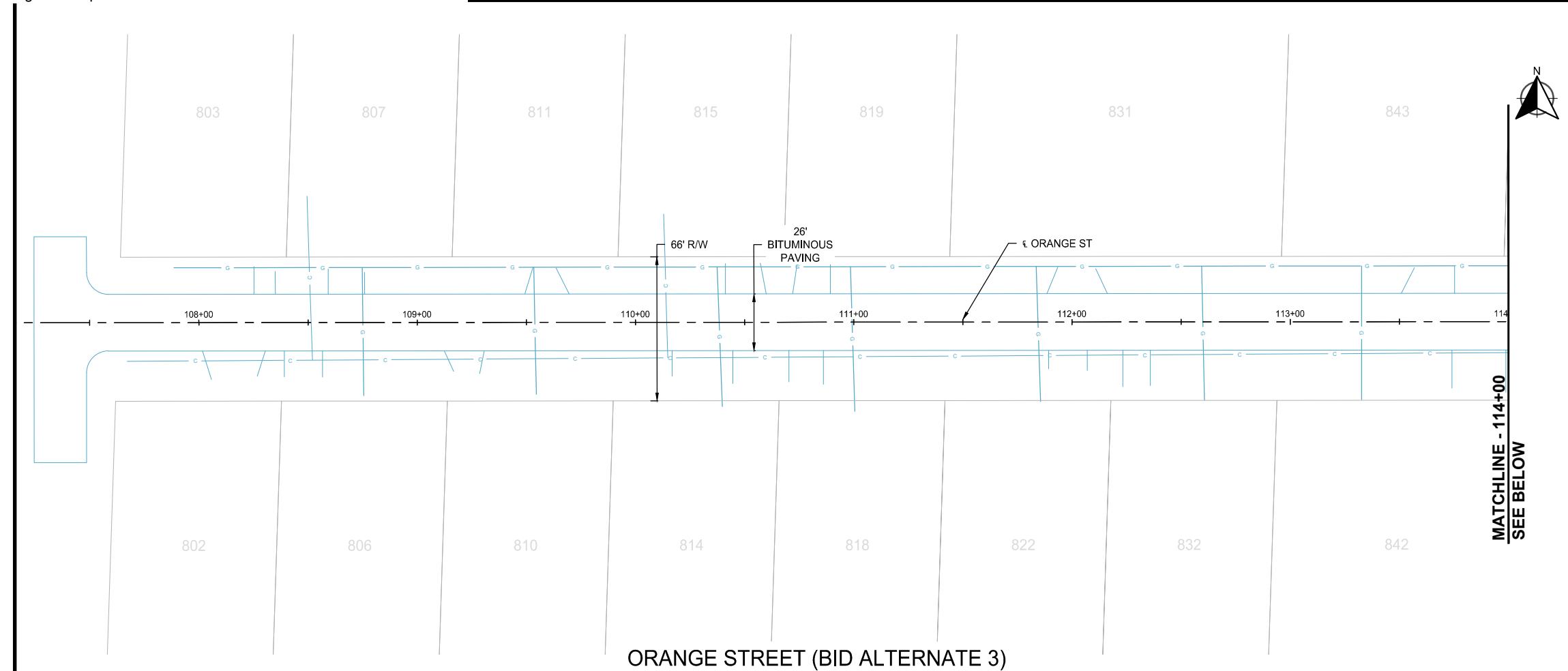
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CITY OF LINO LAKES

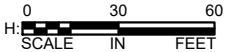
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LOCATION



LEGEND

- INLET PROTECTION
- FLOW DIRECTION
- STABILIZED CONTROL LOG
TYPE WOOD FIBER
- STABILIZED CONSTRUCTION EXIT
- SODDING TYPE LAWN
- TEMPORARY SOIL STABILIZATION:
HYDRAULIC STABILIZED FIBER MATRIX
@ 3000 LB/ACRE



SCALE: AS SHOWN
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DESIGN BY: DLH
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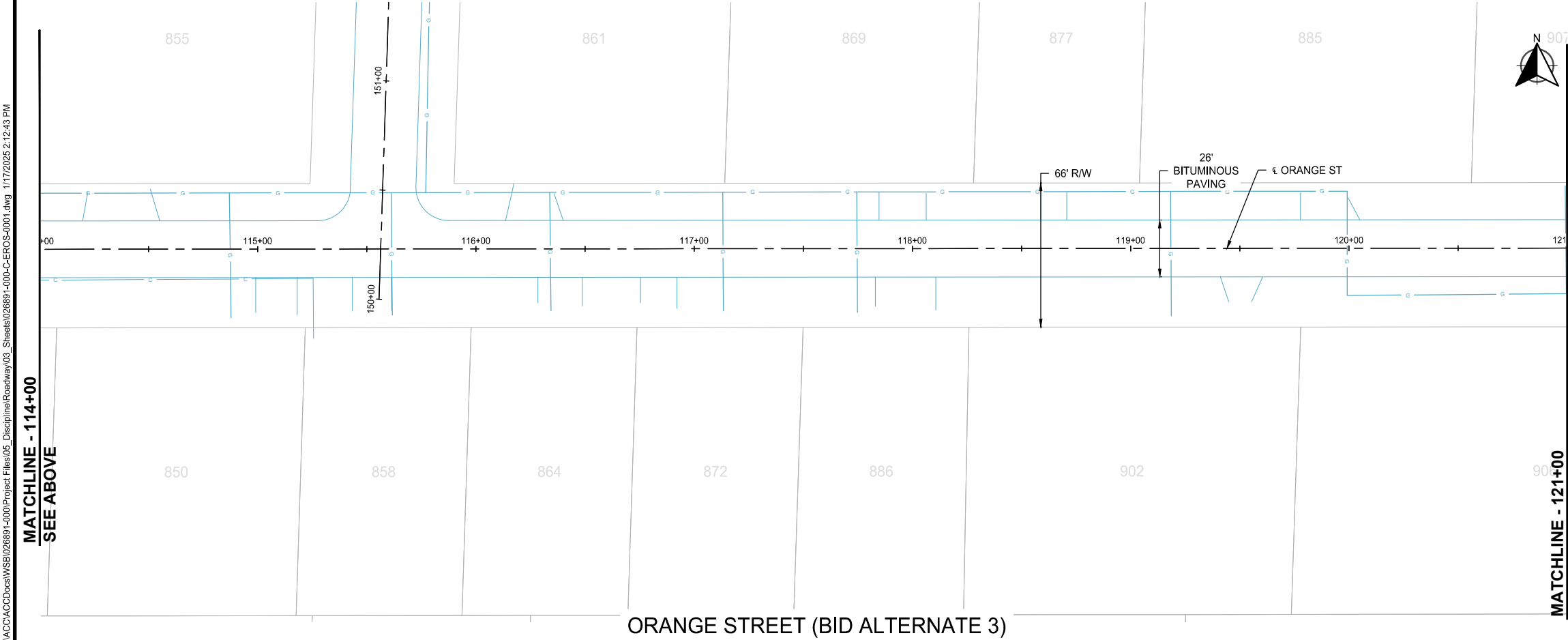
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Diane Hanke
DIANE L. HANKEE

DATE: MM/DD/YYYY LIC. NO. 43338

BID ALTERNATE
EROSION
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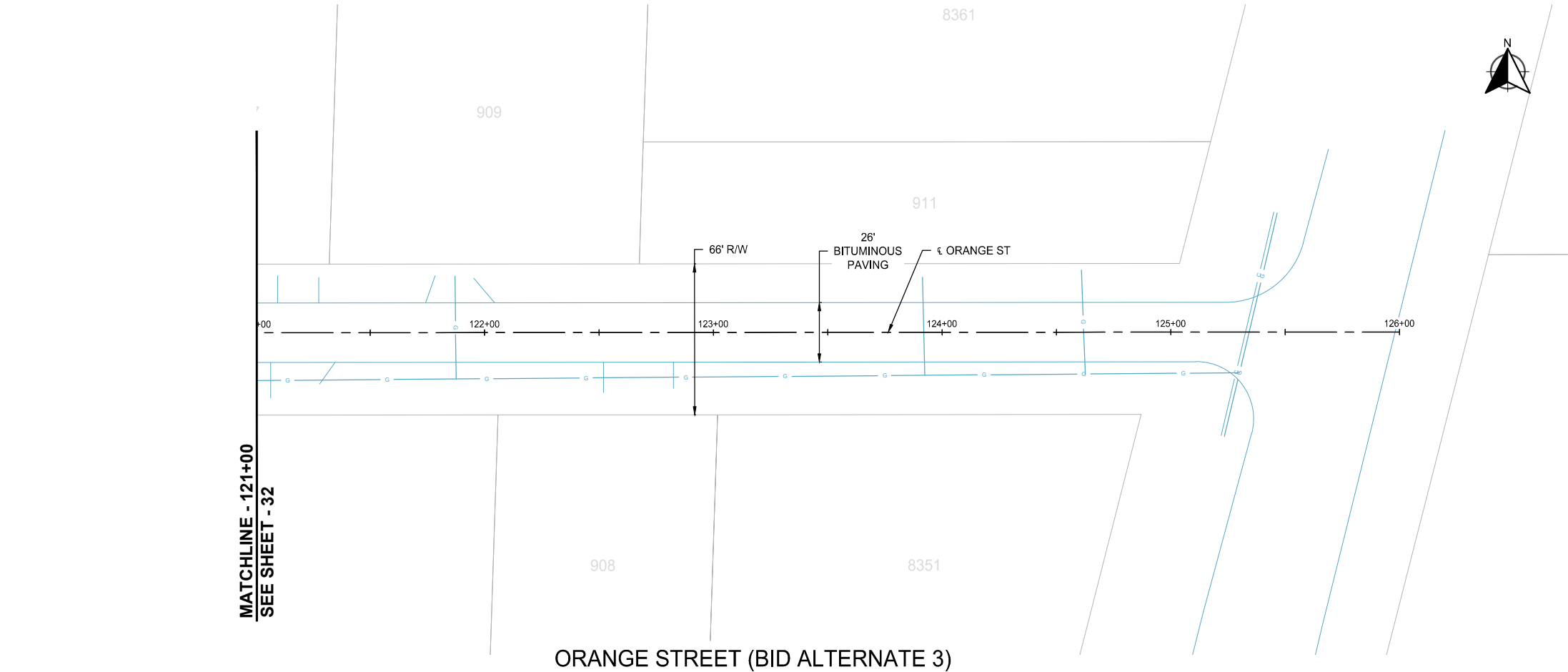
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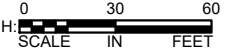
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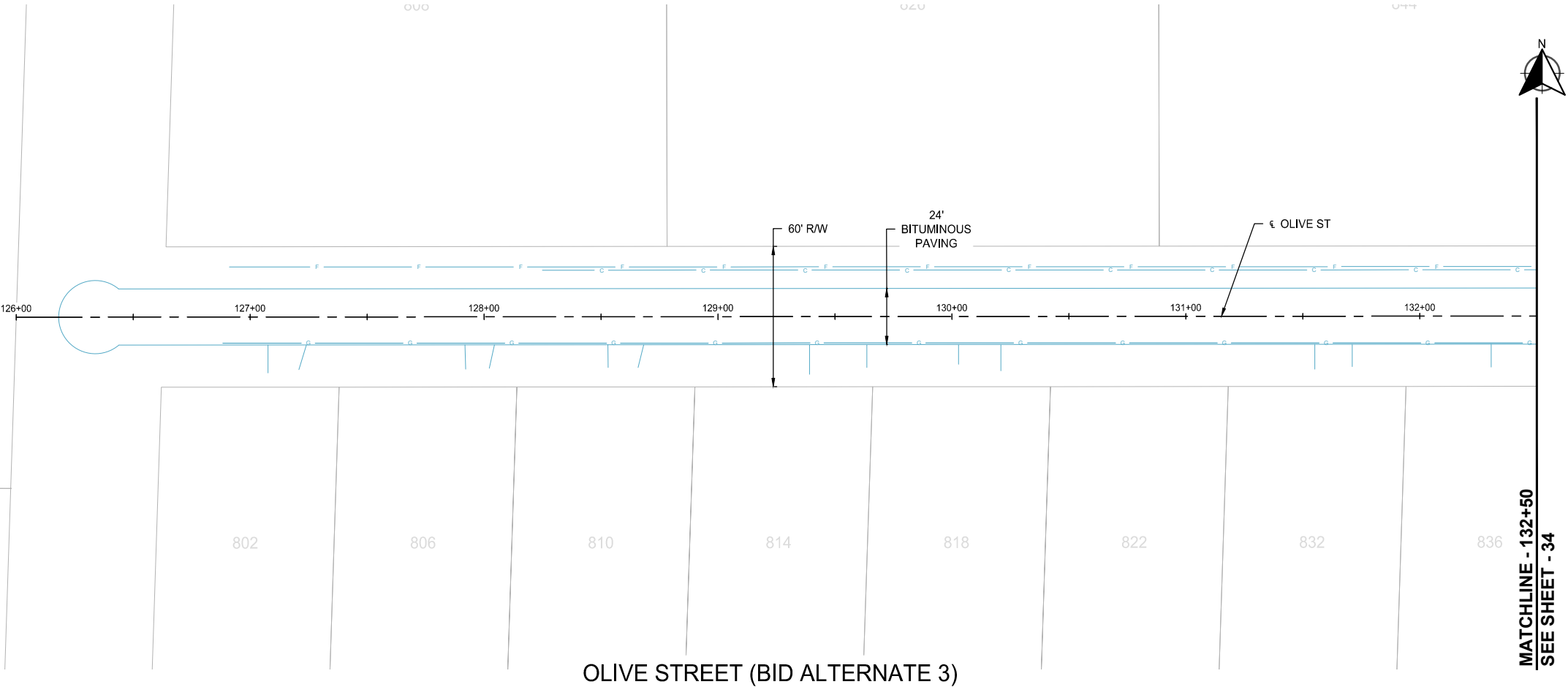


LOCATION



LEGEND

- INLET PROTECTION
- FLOW DIRECTION
- STABILIZED CONTROL LOG
TYPE WOOD FIBER
- STABILIZED CONSTRUCTION EXIT
- SODDING TYPE LAWN
TEMPORARY SOIL STABILIZATION:
HYDRAULIC STABILIZED FIBER MATRIX
@ 3000 LB/ACRE



SCALE: AS SHOWN
PLAN BY: KEA
DESIGN BY: DLH
CHECK BY: PTH

REVISIONS

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BID ALTERNATE
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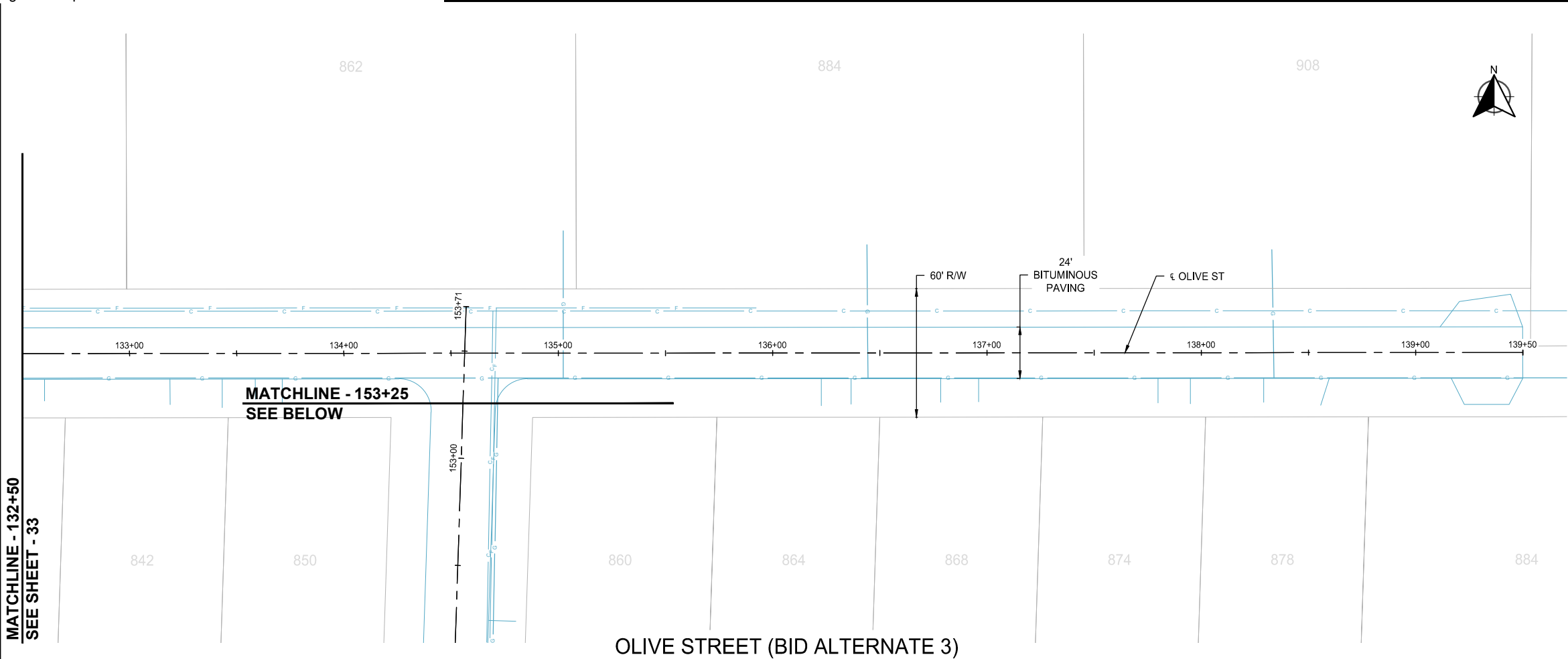
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CITY OF LINO LAKES

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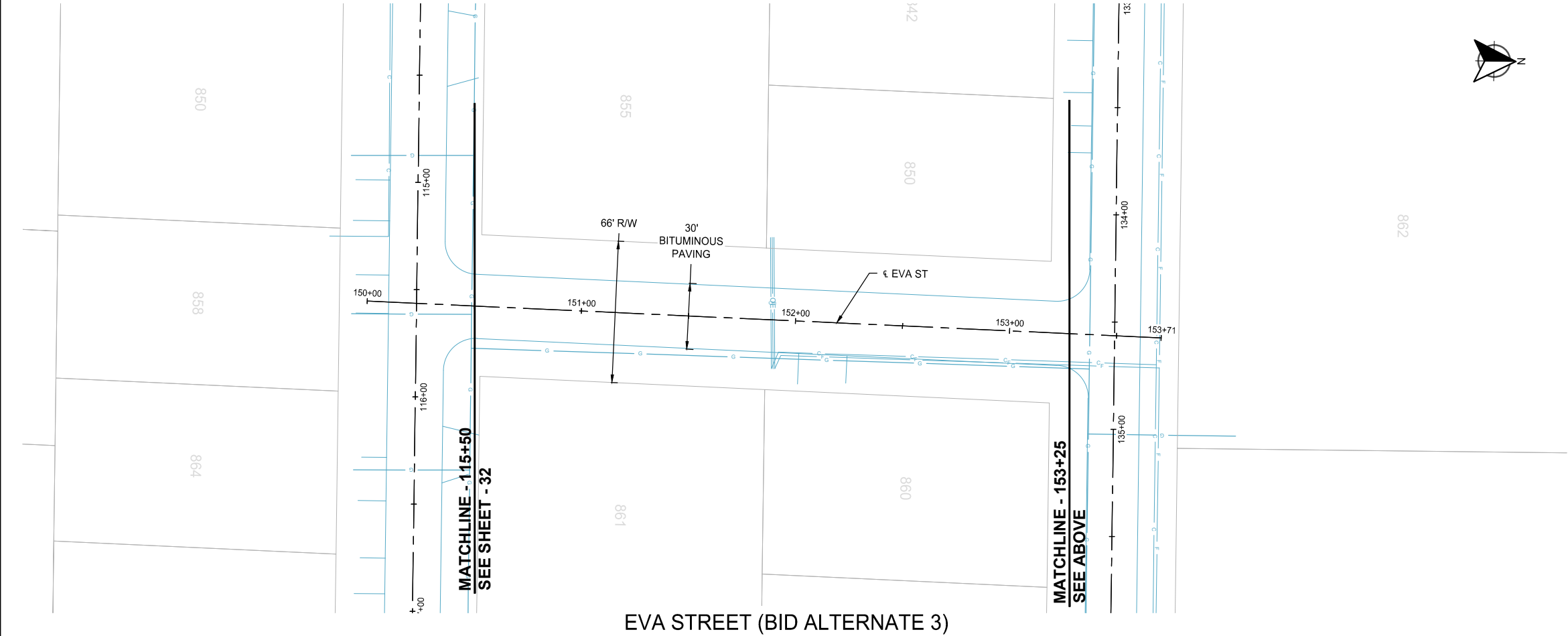
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MATCHLINE - 132+50
SEE SHEET - 33



EVA STREET (BID ALTERNATE 3)

LOCATION



LEGEND

- INLET PROTECTION
- FLOW DIRECTION
- STABILIZED CONTROL LOG TYPE WOOD FIBER
- STABILIZED CONSTRUCTION EXIT
- SODDING TYPE LAWN
- TEMPORARY SOIL STABILIZATION: HYDRAULIC STABILIZED FIBER MATRIX @ 3000 LB/ACRE



SCALE: AS SHOWN
PLAN BY: KEA
DESIGN BY: DLH
CHECK BY: PTH

REVISIONS

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Diane Hanke
DIANE L. HANKEE

DATE: MM/DD/YYYY LIC. NO.: 43338

BID ALTERNATE
EROSION
CONTROL PLAN

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CITY OF LINO LAKES

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