

MINNESOTA DEPARTMENT OF TRANSPORTATION

CITY OF BLAINE, MINNESOTA

CONSTRUCTION PLAN FOR GRADING, BITUMINOUS PAVING, CONCRETE CURB & GUTTER, ADA IMPROVEMENTS, STORM WATER IMPROVEMENTS, AND APPURTENANT WORK

GOVERNING SPECIFICATIONS

THE 2018 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN.

THE CITY OF BLAINE STANDARD SPECIFICATIONS SHALL GOVERN.

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

PLAN SHEET INDEX

SHEET NO.	DESCRIPTION
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7 - 10	QUANTITY TABULATIONS
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214 - 230	SIGNING & STRIPING PLAN
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X1 - X61	CROSS SECTIONS

THIS PLAN CONTAINS 317 SHEETS



THIS PLAN HAS BEEN PREPARED FOR:

CITY OF BLAINE
10801 TOWN SQUARE DRIVE NE
BLAINE, MN 55449

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

wsb

Nicholas E. Hentges
NICHOLAS E. HENTGES, PE

DESIGN ENGINEER: 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.

DATE: 3/29/2021 LICENSE NO. 44620

APPROVED: CITY OF BLAINE ENGINEER DATE:

DISTRICT STATE AID ENGINEER: REVIEWED FOR COMPLIANCE WITH STATE AID RULES/POLICY DATE:

STATE AID ENGINEER: APPROVED FOR STATE AID FUNDING DATE:

I HEREBY CERTIFY THAT THE FINAL FIELD REVISIONS, IF ANY, OF THE PLAN WERE MADE BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

DATE: LIC. NO.

SAP 106-125-008
SAP 106-130-008

CITY PROJECT 21-06

SHEET
1
OF
256
SHEETS

CLUB WEST PKWY NE (MSAS 130) SAP 106-130-008

GROSS LENGTH 5,933.51 ft 1.123 miles
BRIDGES-LENGTH N/A ft N/A miles
EXCEPTIONS-LENGTH N/A ft N/A miles
NET LENGTH 5,933.78 ft 1.124 miles

NOTE: LENGTHS BASED ON NB ALIGNMENT

93RD LANE NE (MSAS 125) SAP 106-130-008

GROSS LENGTH 2,149.59 ft 0.407 miles
BRIDGES-LENGTH 315.36 ft 0.060 miles
EXCEPTIONS-LENGTH 461.11 ft 0.087 miles
NET LENGTH 1,688.48 ft 0.320 miles

NOTE: LENGTHS BASED ON NB ALIGNMENT

93RD LANE NE

GROSS LENGTH 468.94 ft 0.089 miles
BRIDGES-LENGTH N/A ft N/A miles
EXCEPTIONS-LENGTH N/A ft N/A miles
NET LENGTH 468.94 ft 0.089 miles

NOTE: LENGTHS BASED ON NB ALIGNMENT

FLANDERS COURT NE

GROSS LENGTH 686.07 ft 0.130 miles
BRIDGES-LENGTH N/A ft N/A miles
EXCEPTIONS-LENGTH N/A ft N/A miles
NET LENGTH 686.07 ft 0.130 miles

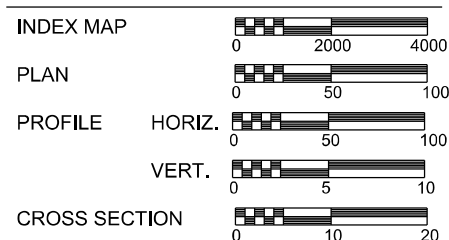
100TH COURT NE

GROSS LENGTH 740.67 ft 0.140 miles
BRIDGES-LENGTH N/A ft N/A miles
EXCEPTIONS-LENGTH N/A ft N/A miles
NET LENGTH 740.67 ft 0.140 miles

105TH LANE NE

GROSS LENGTH 2,045.86 ft 0.387 miles
BRIDGES-LENGTH N/A ft N/A miles
EXCEPTIONS-LENGTH N/A ft N/A miles
NET LENGTH 2,045.86 ft 0.387 miles

SCALES



EXCAVATION NOTICE SYSTEM

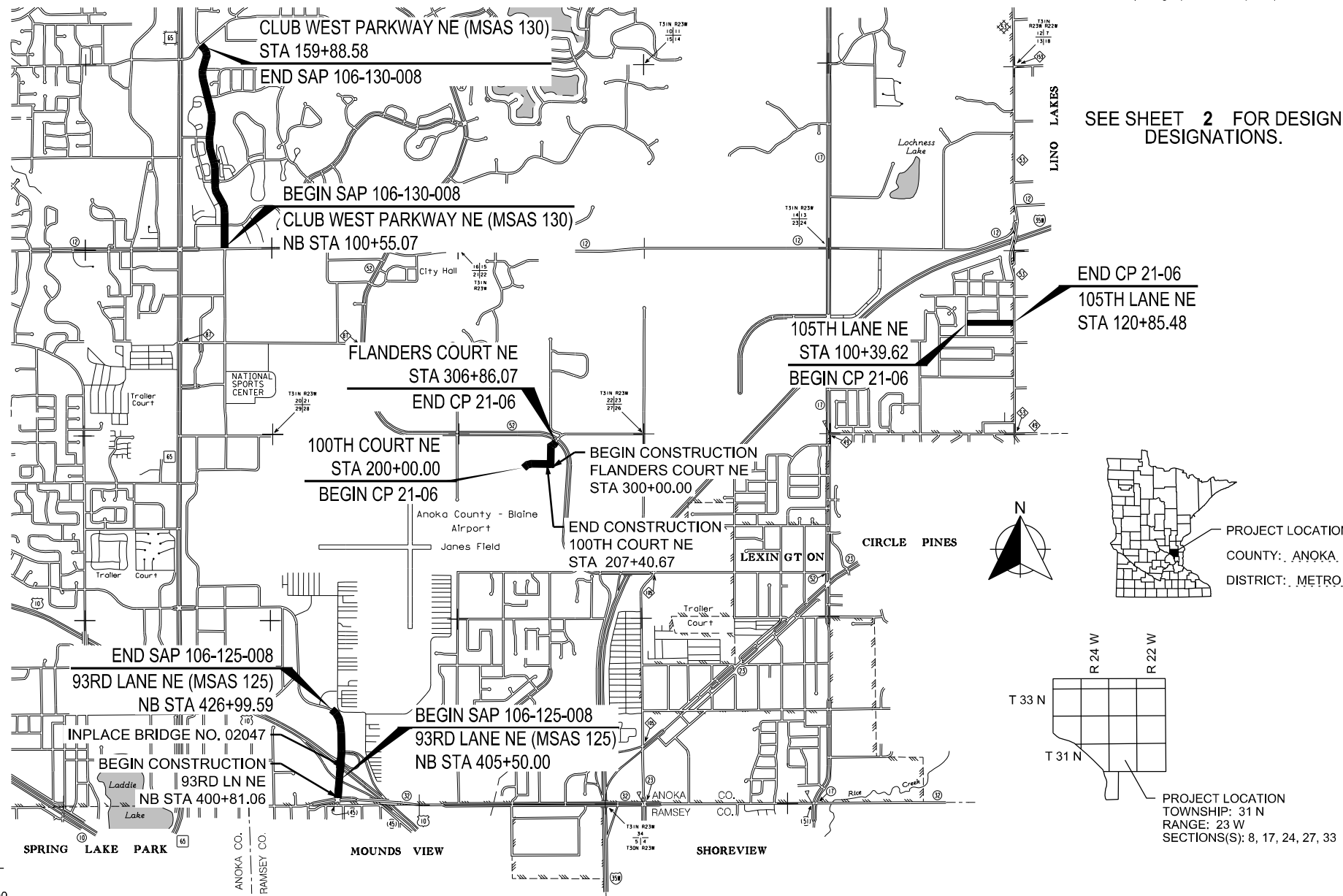
A CALL TO GOPHER STATE ONE (651-454-0002) IS REQUIRED A MINIMUM OF 48 HOURS PRIOR TO PERFORMING ANY EXCAVATION.

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 38-02, ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA."

GOPHER ONE CALL TICKET NUMBER(S): 202872162, 202872163, 202872164, 202872165, 202872166

UTILITY COORDINATION MEETING HELD ON: MARCH 18, 2021



SEE SHEET 2 FOR DESIGN DESIGNATIONS.

END CP 21-06
105TH LANE NE
STA 120+85.48

105TH LANE NE
STA 100+39.62
BEGIN CP 21-06

FLANDERS COURT NE
STA 306+86.07
END CP 21-06

100TH COURT NE
STA 200+00.00
BEGIN CP 21-06

BEGIN CONSTRUCTION
FLANDERS COURT NE
STA 300+00.00

END CONSTRUCTION
100TH COURT NE
STA 207+40.67

END SAP 106-125-008
93RD LANE NE (MSAS 125)
NB STA 426+99.59

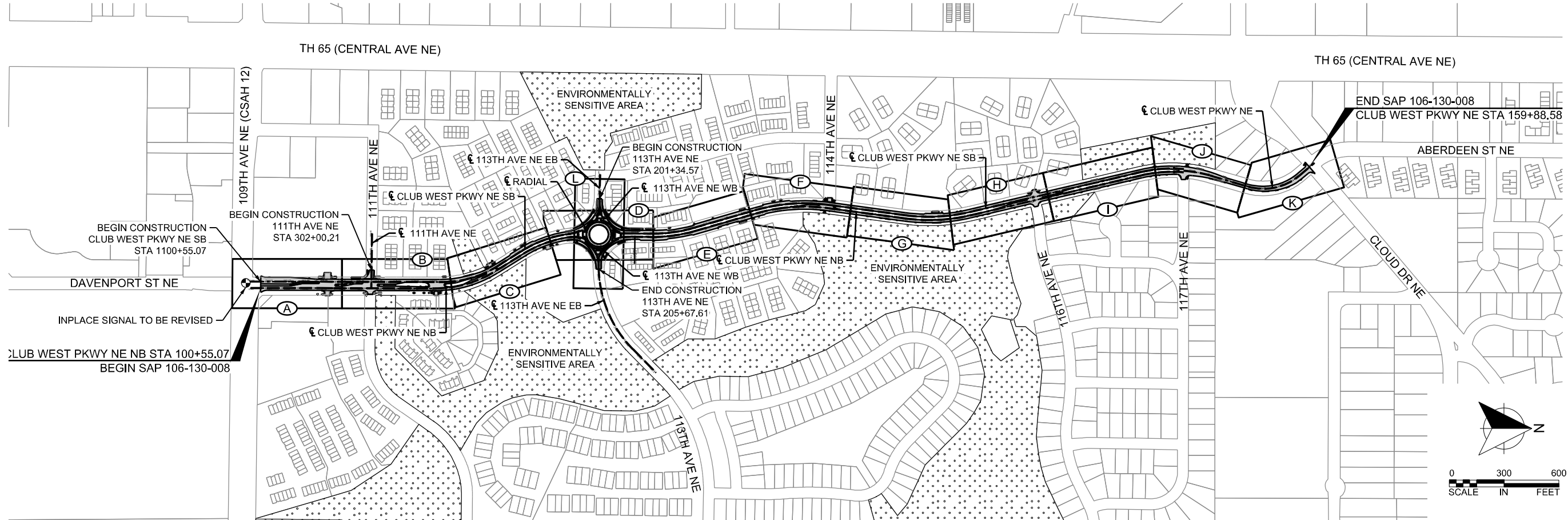
BEGIN CONSTRUCTION
93RD LN NE
NB STA 400+81.06

BEGIN SAP 106-125-008
93RD LANE NE (MSAS 125)
NB STA 405+50.00

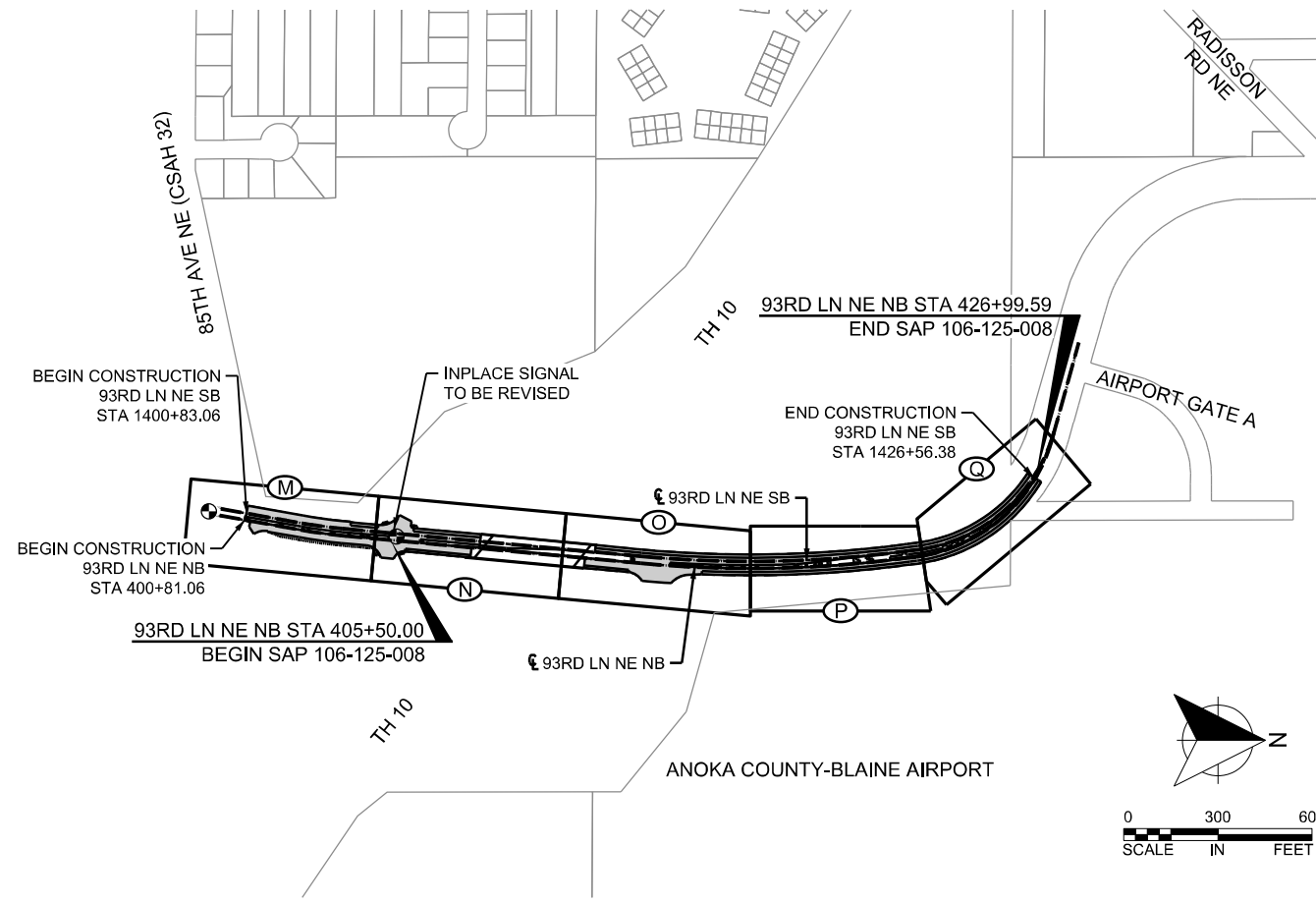
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CLUB WEST PARKWAY NE (MSAS 130)



93RD LANE NE (MSAS 125)



LEGEND																			
SECTION		(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)		(M)	(N)	(O)	(P)	(Q)
	PLAN SHEET INDEX PER SECTION																		
INPLACE TOPOGRAPHY & UTILITIES	CLUB WEST PKWY NE	94		95		96		97		98		99		93RD LANE NE	100		101		102
REMOVAL PLAN		107		108		109		110		111		112			113		114		115
STREET, STORM & WATERMAIN PLAN		120	121	122	123	124	125	126	127	128	129	130	131		132	133	134	135	136
EROSION CONTROL & TURF ESTABLISHMENT		201		202		203		204		205		206			207		208		209
SIGNING & STRIPING		215		216		217		218		219		220			221		222		223



wsb

WSB PROJECT NO.: 016987-000

SCALE: AS SHOWN
 PLAN BY: AJF
 DESIGN BY: AJF
 CHECK BY: NEH

REVISIONS	
NO.	DESCRIPTION

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CITY OF BLAINE, MN
 2021 STREET RECONSTRUCTIONS
 SAP 106-125-008
 SAP 106-130-008

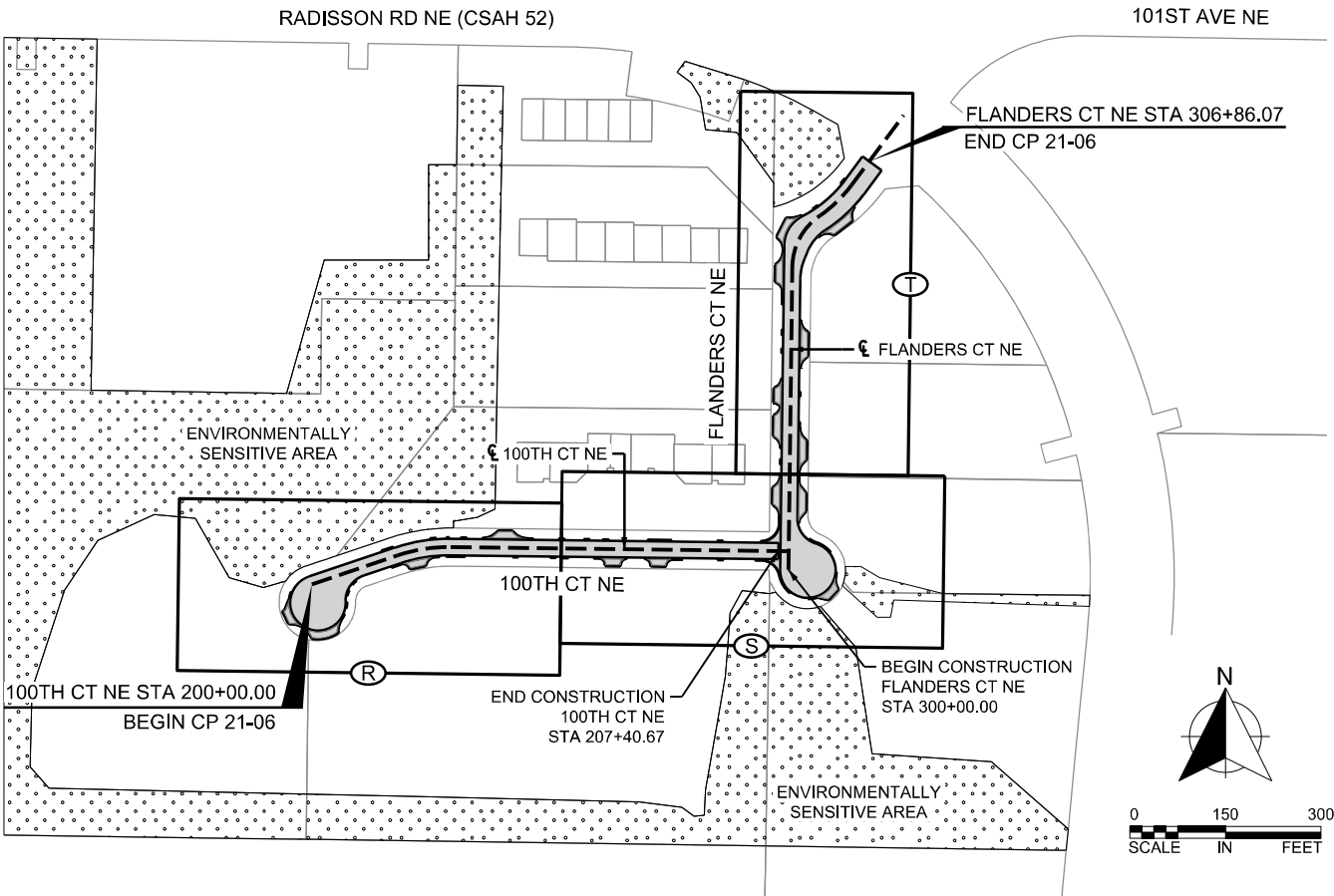
GENERAL LAYOUT

CITY PROJECT 21-06
 SHEET 3 OF 256 SHEETS

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100TH CT NE & FLANDERS CT NE



LEGEND

SECTION	PLAN SHEET INDEX PER SECTION									
	(R)	(S)	(T)	(U)	(V)	(W)	(X)			
INPLACE TOPOGRAPHY & UTILITIES	103		104		105		106			
REMOVAL PLAN	116		117		118		119			
STREET, STORM & WATERMAIN PLAN	137	138	139		140	141	142	143		
EROSION CONTROL & TURF ESTABLISHMENT	210		211		212		213			
SIGNING & STRIPING	224		225		226		227			



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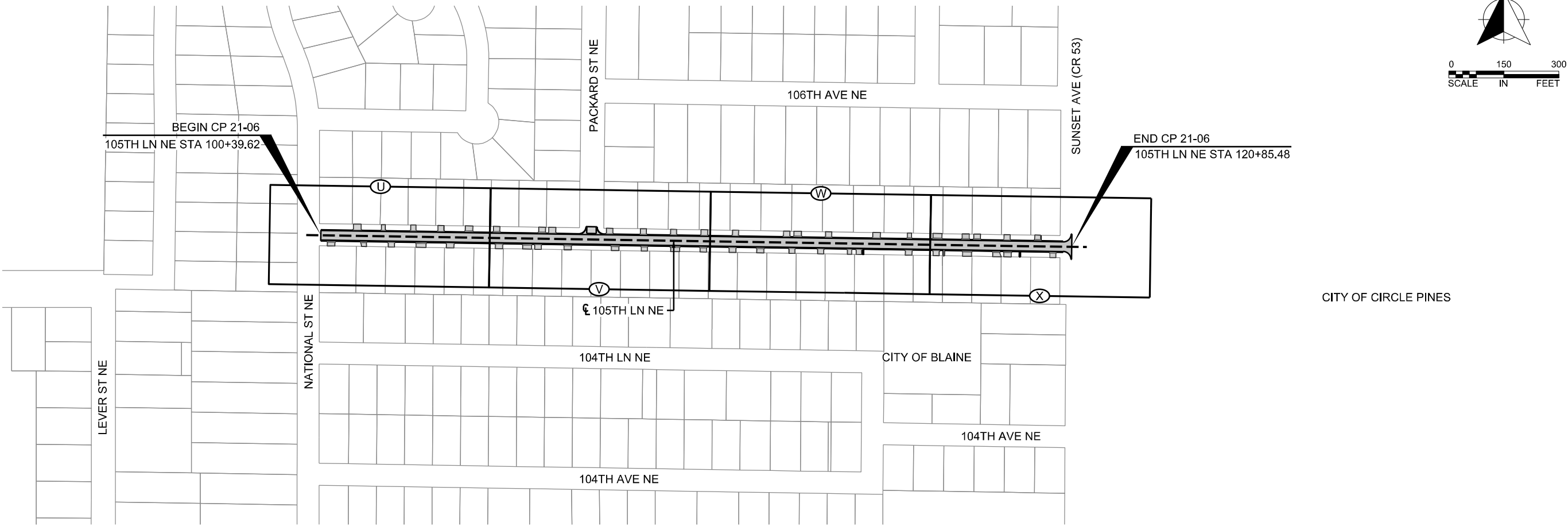
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NICHOLAS E. HERTIGES, PE

DATE: 3/29/2021 LIC. NO.: 44620

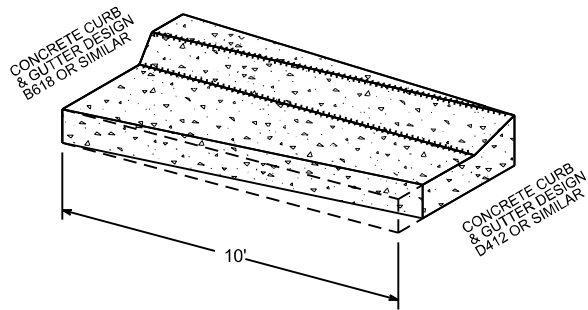
105TH LANE NE



CITY OF BLAINE, MN
 2021 STREET RECONSTRUCTIONS
 SAP 106-125-008
 SAP 106-130-008

GENERAL LAYOUT

CITY PROJECT 21-06
 SHEET 4 OF 256 SHEETS



FOR OTHER DIMENSIONS SEE STANDARD PLATE NO. 7100

PAYMENT SHALL BE MADE AS THE CURB & GUTTER TYPE B618 BY THE FOOT

TRANSITION CURB TAPER

NO SCALE



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016987-000

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AS SHOWN	AJF
PLAN BY:	CHECK BY:
AJF	NEH

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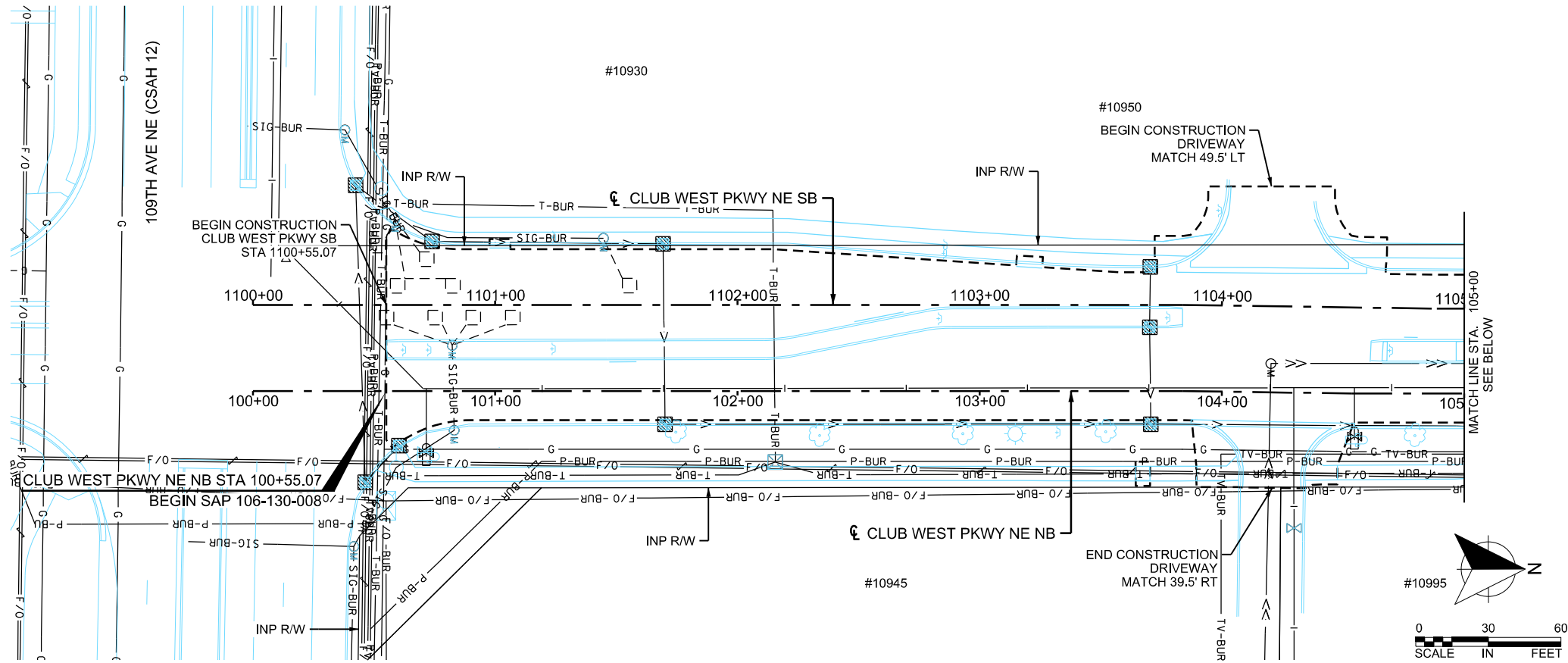
CITY OF BLAINE, MN
**2021 STREET
RECONSTRUCTIONS**
SAP 106-125-008
SAP 106-130-008

MISCELLANEOUS
DETAILS

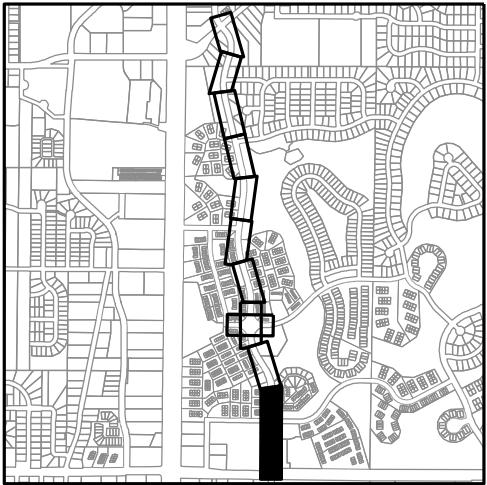
CITY
PROJECT
21-06

SHEET
24
OF
256
SHEETS

CLUB WEST PKWY NE (MSAS 130)



LOCATION MAP



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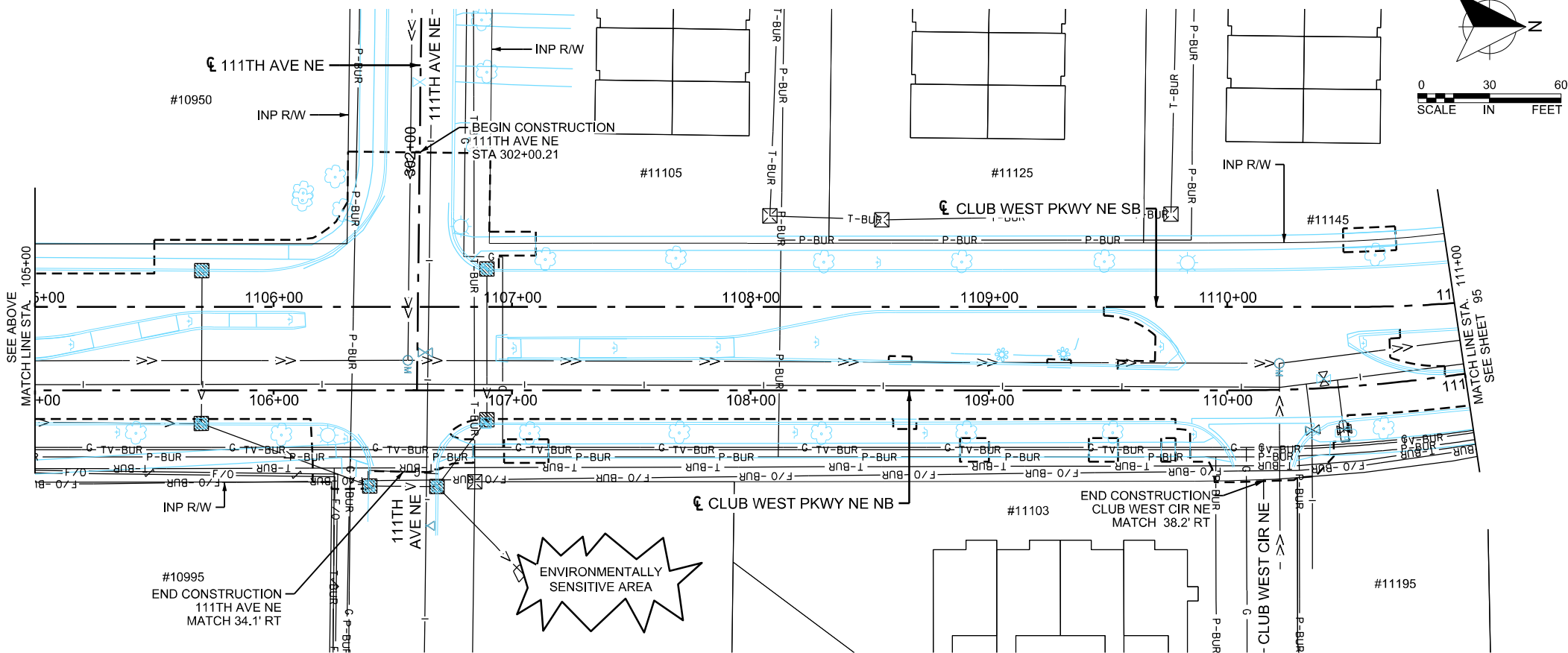
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CLUB WEST PKWY NE (MSAS 130)



LEGEND

- T-BUR - BURIED FIBER OPTIC LINE
- P-BUR - BURIED POWER LINE
- SIG-BUR - BURIED SIGNAL LINE
- T-BUR - BURIED TELEPHONE LINE
- TV-BUR - BURIED TELEVISION LINE
- OHP - OVERHEAD POWER LINE
- OHU - OVERHEAD UTILITY LINE
- SSW - SANITARY SEWER
- SSW - STORM SEWER
- G - UNDERGROUND GAS MAIN / SERVICE
- UIC - UTILITY IN CONDUIT
- WM - WATER MAIN
- CABINET
- CATCH BASIN
- HANDHOLE
- HYDRANT
- LIGHT POLE
- MANHOLE
- PIPE APRON
- POWER / UTILITY POLE
- SIGN STRUCTURE
- SIGNAL POLE
- UTILITY PEDESTAL
- VALVE
- VEGETATION
- FENCE
- RETAINING WALL
- CONSTRUCTION LIMITS

GENERAL NOTES

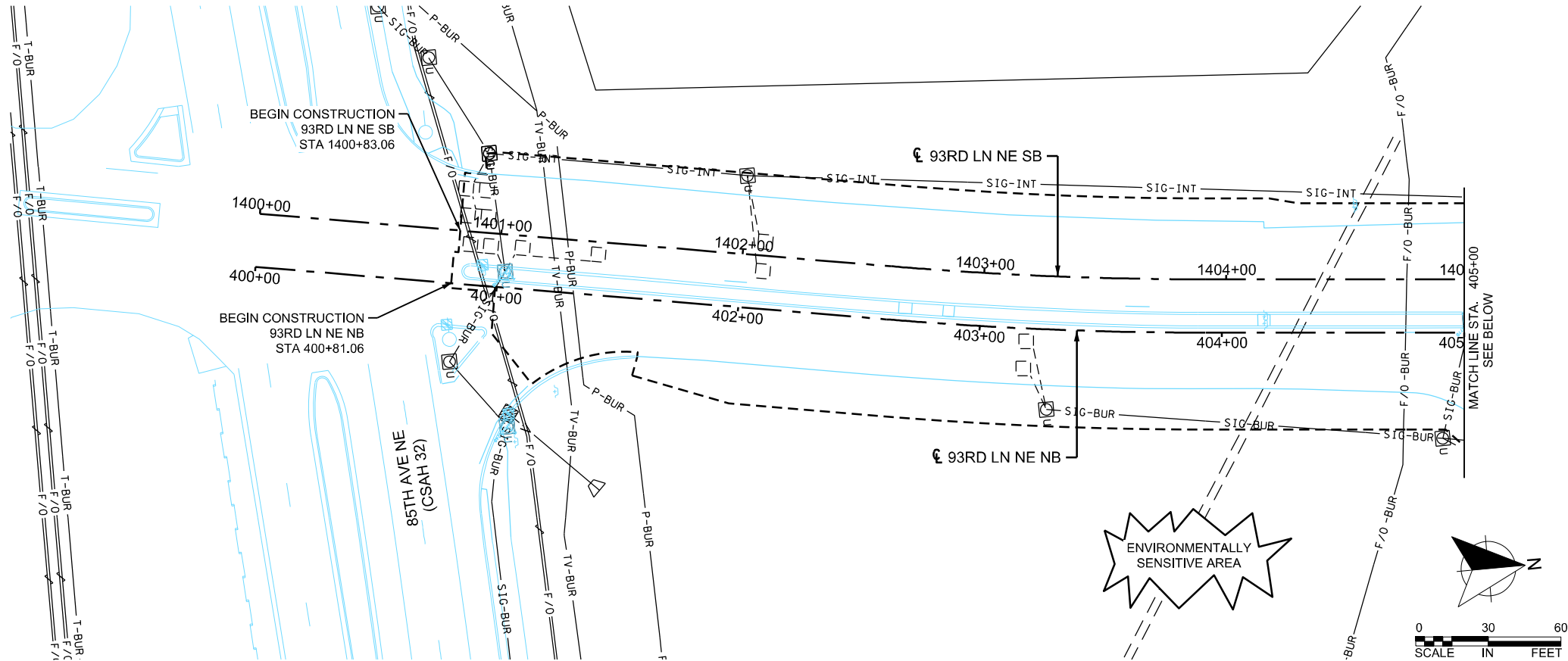
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- UTILITIES ARE SHOWN AT APPROXIMATE LOCATIONS. THE CONTRACTOR SHALL DETERMINE THE ACTUAL LOCATION OF ALL BURIED UTILITIES IN THE FIELD.
- SEE INPLACE UTILITY TABULATIONS FOR MORE DETAILS.

CITY OF BLAINE, MN
 2021 STREET RECONSTRUCTIONS
 SAP 106-125-008
 SAP 106-130-008

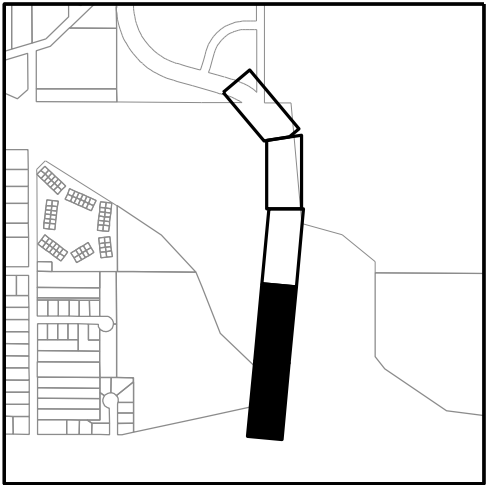
INPLACE TOPOGRAPHY & UTILITIES

CITY PROJECT 21-06
 SHEET 94 OF 256 SHEETS

93RD LANE NE (MSAS 125)



LOCATION MAP



wsb

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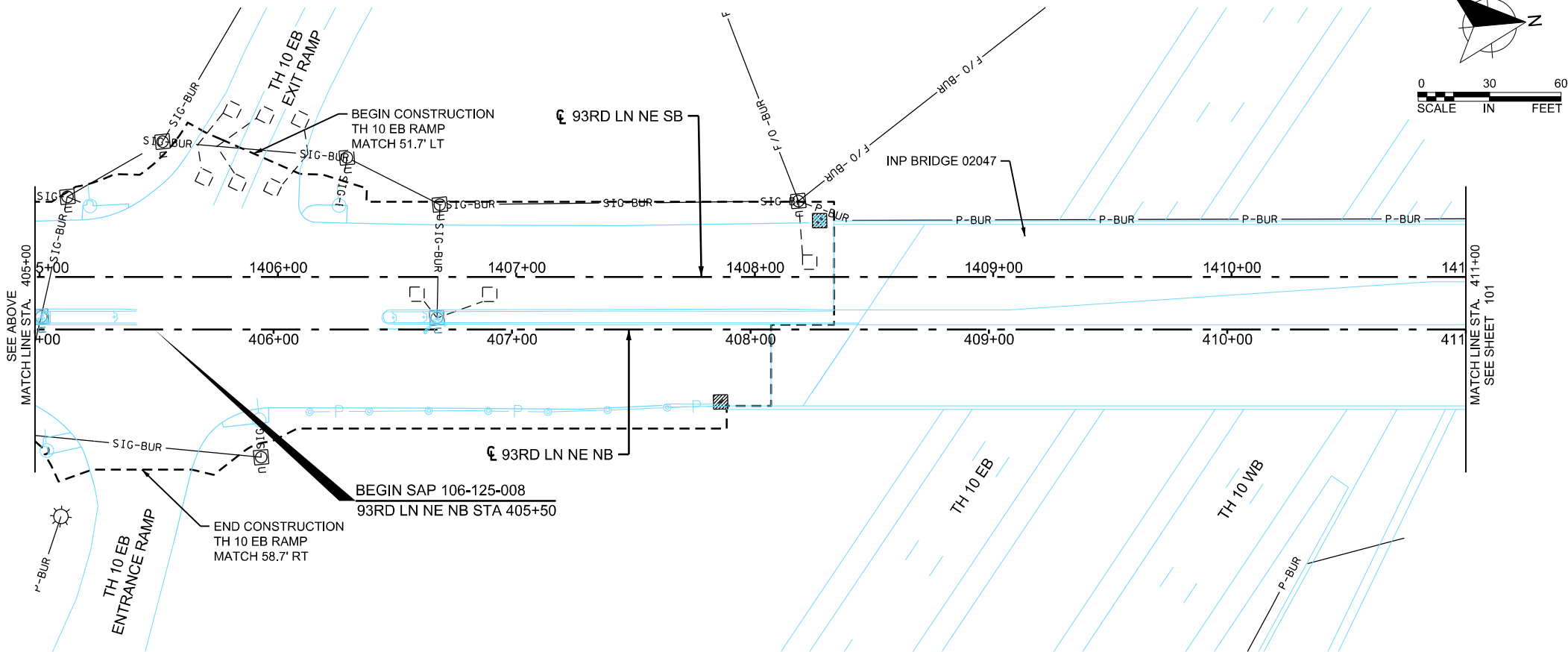
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NICHOLAS E. HERTIGES, PE

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93RD LANE NE (MSAS 125)



LEGEND

- T-BUR BURIED FIBER OPTIC LINE
- P-BUR BURIED POWER LINE
- SIG-BUR BURIED SIGNAL LINE
- T-BUR BURIED TELEPHONE LINE
- TV-BUR BURIED TELEVISION LINE
- OHP OVERHEAD POWER LINE
- OHS OVERHEAD UTILITY LINE
- SS SANITARY SEWER
- SS STORM SEWER
- G UNDERGROUND GAS MAIN / SERVICE
- U IN CONDUIT
- W WATER MAIN
- CABINET
- CATCH BASIN
- HANDHOLE
- HYDRANT
- LIGHT POLE
- MANHOLE
- PIPE APRON
- POWER / UTILITY POLE
- SIGN STRUCTURE
- SIGNAL POLE
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- CONSTRUCTION LIMITS

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CITY OF BLAINE, MN

2021 STREET RECONSTRUCTIONS

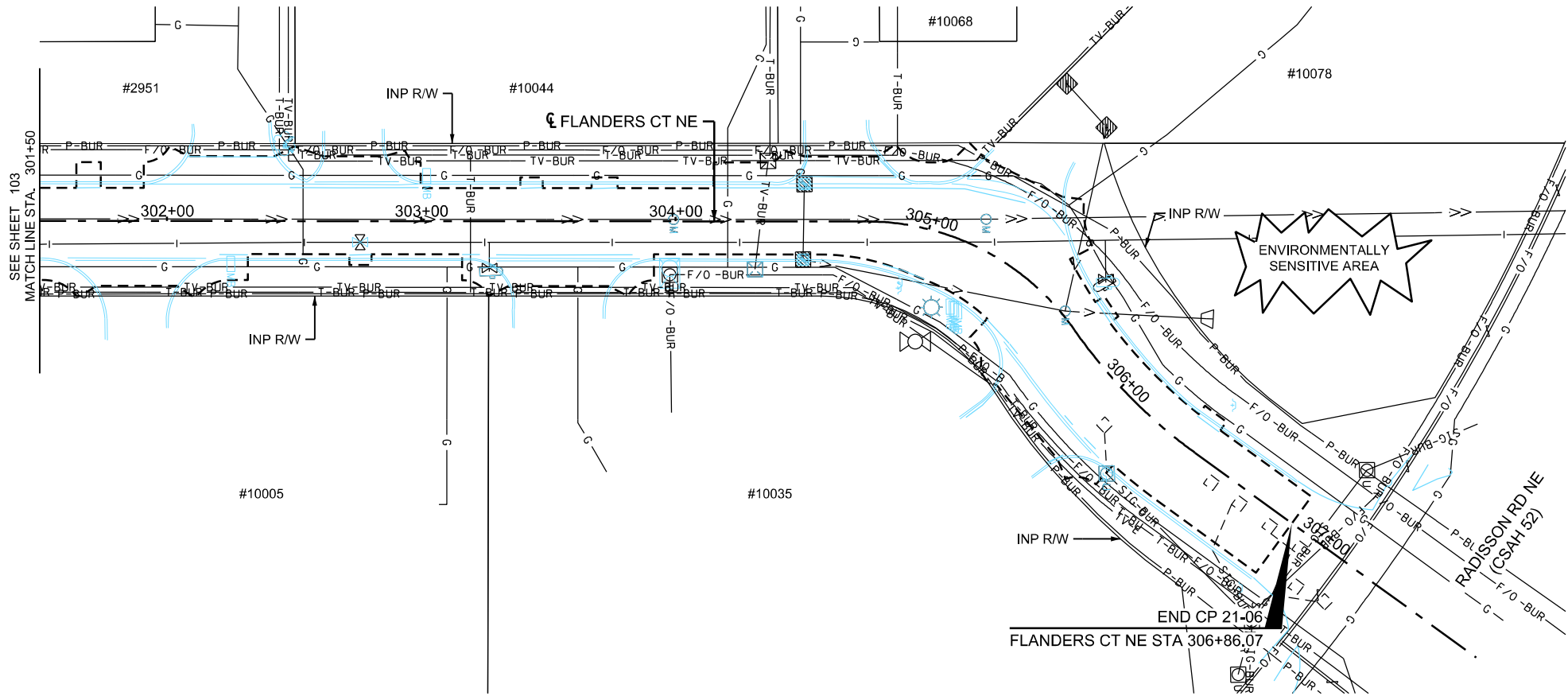
SAP 106-125-008
 SAP 106-130-008

INPLACE TOPOGRAPHY & UTILITIES

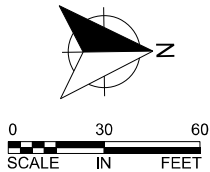
CITY PROJECT 21-06

SHEET 100 OF 256 SHEETS

FLANDERS COURT NE



LOCATION MAP



LEGEND

- T-BUR BURIED FIBER OPTIC LINE
- P-BUR BURIED POWER LINE
- SIG-BUR BURIED SIGNAL LINE
- T-BUR BURIED TELEPHONE LINE
- TV-BUR BURIED TELEVISION LINE
- OHP OVERHEAD POWER LINE
- OHU OVERHEAD UTILITY LINE
- SS SANITARY SEWER
- SS STORM SEWER
- G UNDERGROUND GAS MAIN / SERVICE
- UC UTILITY IN CONDUIT
- WM WATER MAIN
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wsb

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016987-000

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DATE: 3/29/2021 LIC. NO. 44620

CITY OF BLAINE, MN

2021 STREET
RECONSTRUCTIONS

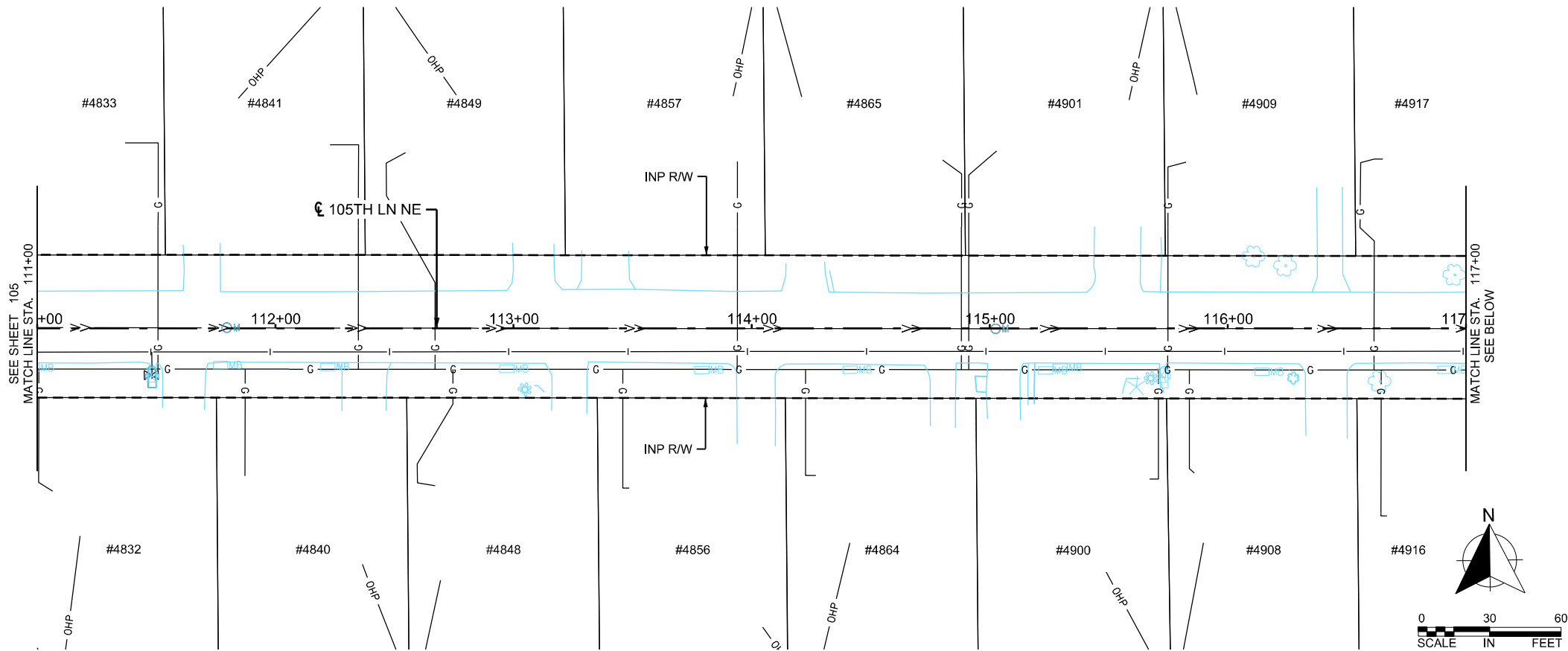
SAP 106-125-008
SAP 106-130-008

INPLACE
TOPOGRAPHY
& UTILITIES

CITY
PROJECT
21-06

SHEET
104
OF
256
SHEETS

105TH LANE NE



LOCATION MAP



wsb

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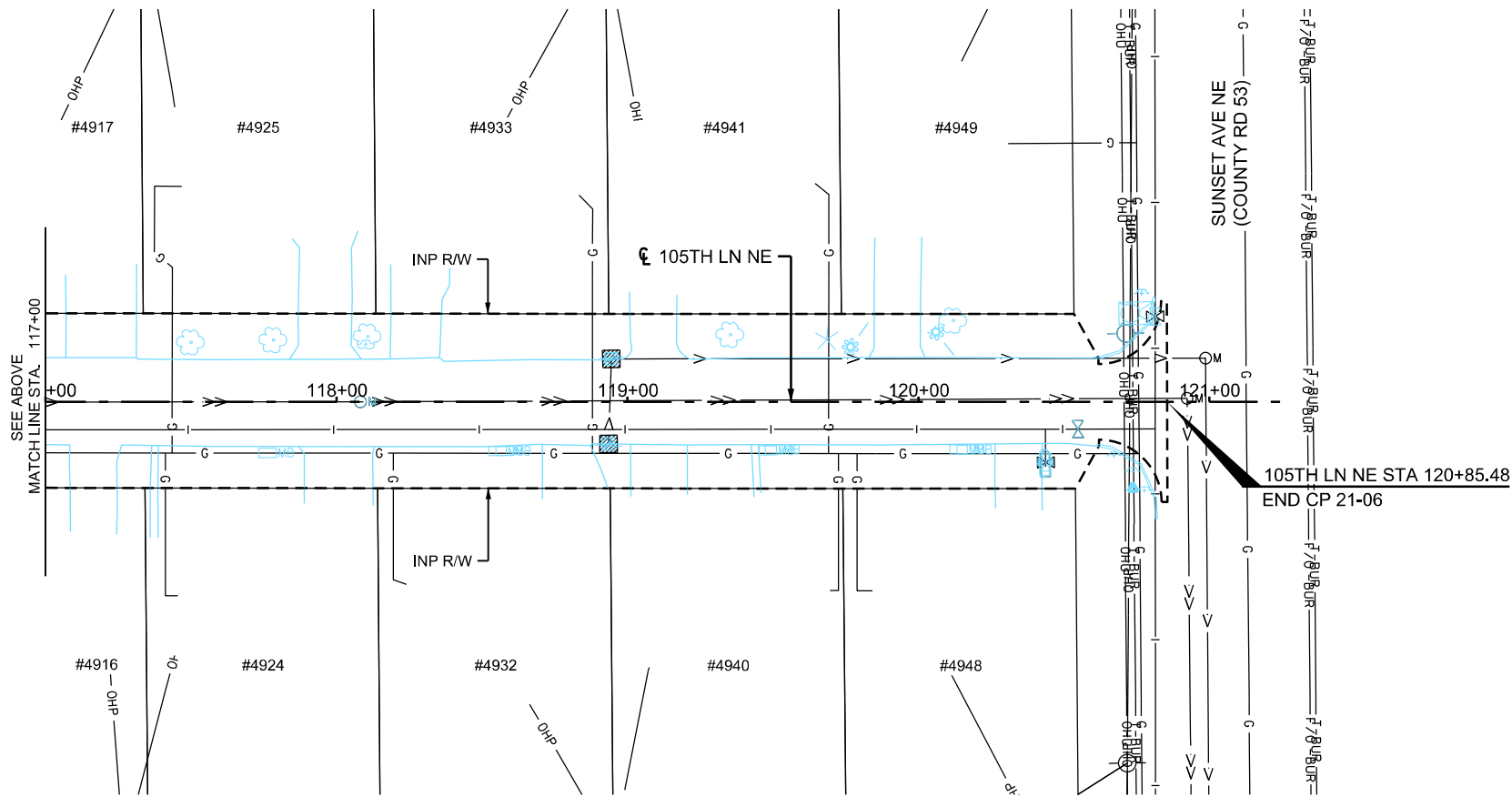
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DATE: 3/29/2021 LIC. NO.: 44620

105TH LANE NE



LEGEND

- T-BUR BURIED FIBER OPTIC LINE
- P-BUR BURIED POWER LINE
- SIG-BUR BURIED SIGNAL LINE
- T-BUR BURIED TELEPHONE LINE
- TV-BUR BURIED TELEVISION LINE
- OHP OVERHEAD POWER LINE
- OHU OVERHEAD UTILITY LINE
- S SANITARY SEWER
- A STORM SEWER
- G UNDERGROUND GAS MAIN / SERVICE
- C UTILITY IN CONDUIT
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- FENCE
- RETAINING WALL
- CONSTRUCTION LIMITS

GENERAL NOTES

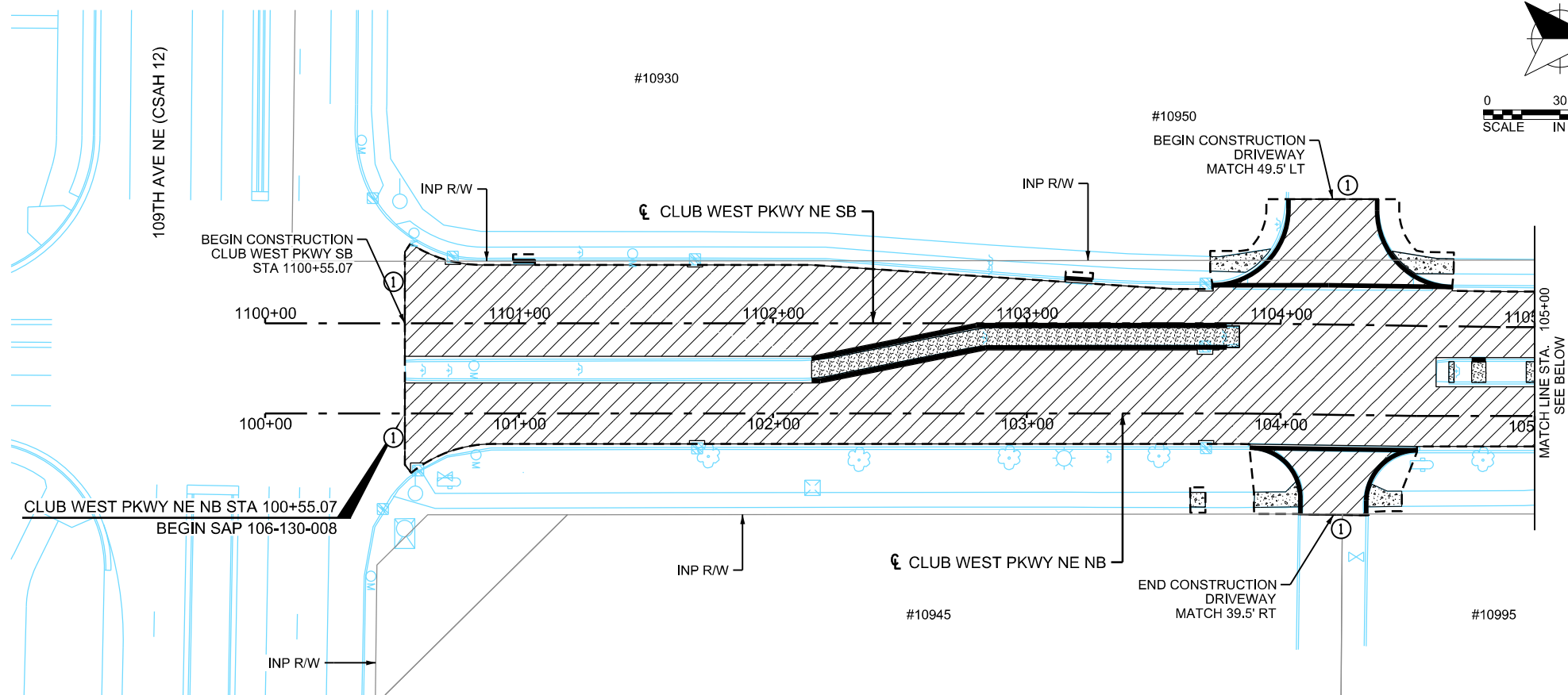
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CITY OF BLAINE, MN
2021 STREET
RECONSTRUCTIONS
SAP 106-125-008
SAP 106-130-008

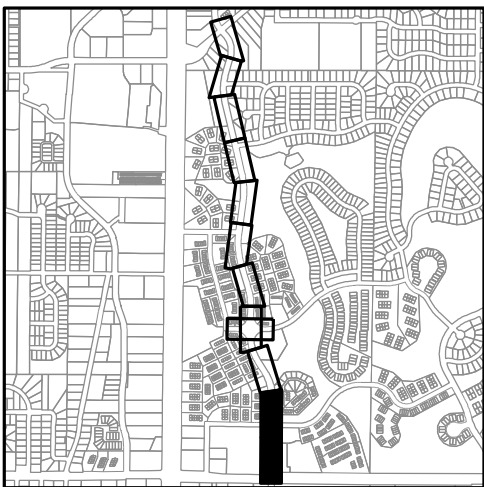
INPLACE
TOPOGRAPHY
& UTILITIES

CITY
PROJECT
21-06
SHEET
106
OF
256
SHEETS

CLUB WEST PKWY NE (MSAS 130)



LOCATION MAP



wsb

WSB PROJECT NO.: 016987-000

SCALE: AS SHOWN
 PLAN BY: AJF
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 CHECK BY: NEH

REVISIONS

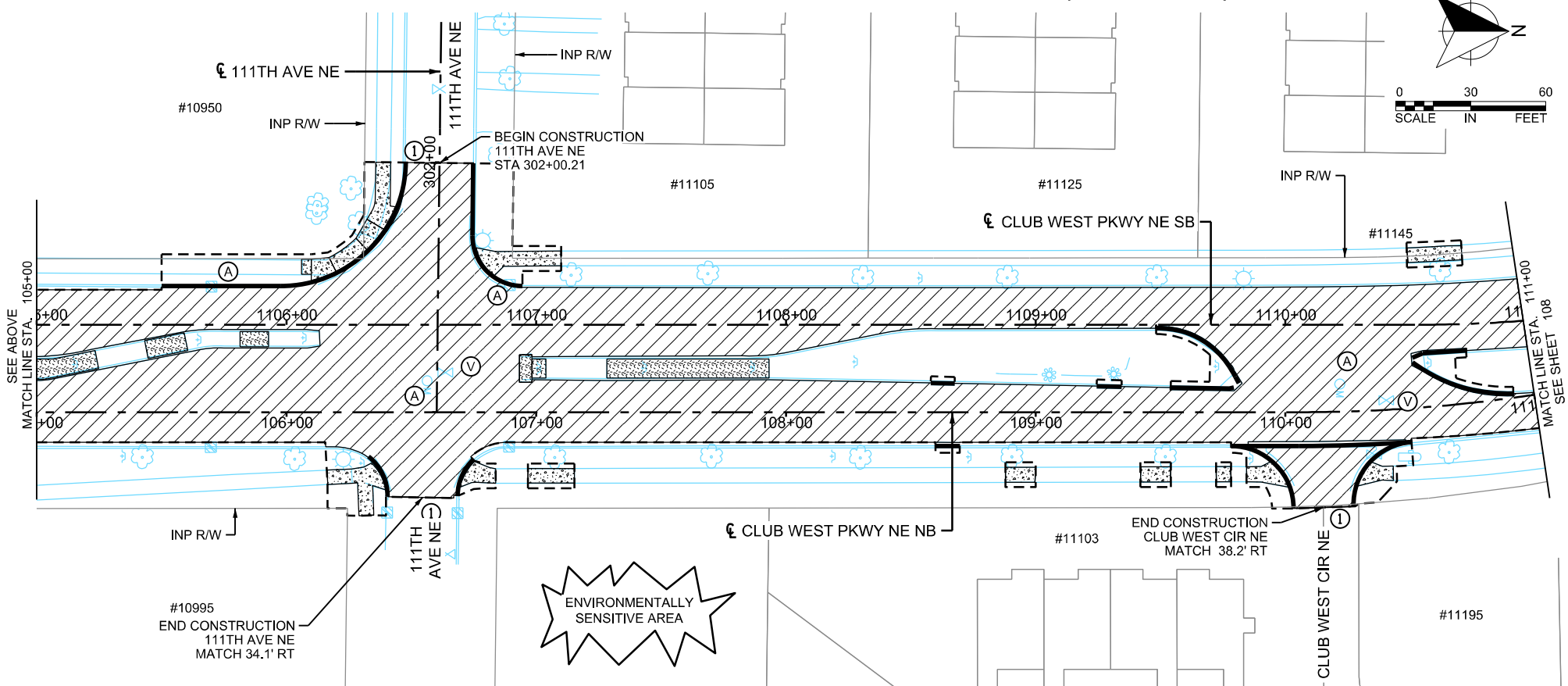
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DATE: 3/29/2021 LIC. NO.: 44620

CLUB WEST PKWY NE (MSAS 130)



LEGEND

- REMOVE BITUMINOUS PAVEMENT
- REMOVE CONCRETE PAVEMENT
- REMOVE CONCRETE WALK
- REMOVE BITUMINOUS DRIVEWAY PAVEMENT
- REMOVE CONCRETE DRIVEWAY PAVEMENT
- REMOVE CONCRETE MEDIAN
- REMOVE CONCRETE CURB & GUTTER
- GRADING LIMITS (APPROX.)
- REMOVE SEWER PIPE (STORM)
- PROTECT TREE (INCIDENTAL)
- REMOVE VALVE BOX
- REMOVE HYDRANT, REMOVE GATE VALVE & BOX
- REMOVE FRAME & RING CASTING
- REMOVE DRAINAGE STRUCTURE
- ADJUST GATE VALVE & BOX
- SAWING BITUMINOUS PAVEMENT (FULL DEPTH)
- SAWING CONCRETE PAVEMENT (FULL DEPTH)
- REMOVE MAIL BOX SUPPORT
- CLEAR & GRUB TREE

GENERAL NOTES:

- REMOVAL OF AGGREGATE BASE AND SURFACING SHALL BE INCLUDED IN EXCAVATION-COMMON.
- ALL REMOVAL ITEMS SHALL BE DISPOSED OF OFF THE PROJECT SITE.
- SAWING OF CONCRETE CURB & GUTTER, CONCRETE WALK SHALL BE INCIDENTAL.
- DRIVEWAY REMOVALS ARE SHOWN TO THE RIGHT OF WAY FOR ILLUSTRATIVE PURPOSES ONLY. ACTUAL EXTENT OF DRIVEWAY REMOVAL WILL BE DETERMINED IN THE FIELD BY THE ENGINEER. REFER TO REMOVAL TABULATION FOR EXISTING PAVEMENT DEPTHS.
- CONCRETE CURB & GUTTER REMOVAL TO BE VERIFIED IN THE FIELD BY THE ENGINEER.

CITY OF BLAINE, MN

2021 STREET RECONSTRUCTIONS

SAP 106-125-008
 SAP 106-130-008

REMOVAL PLANS

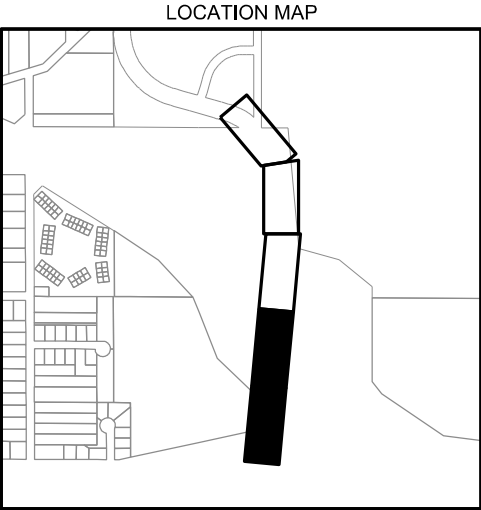
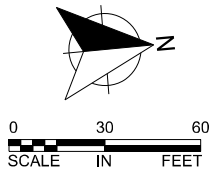
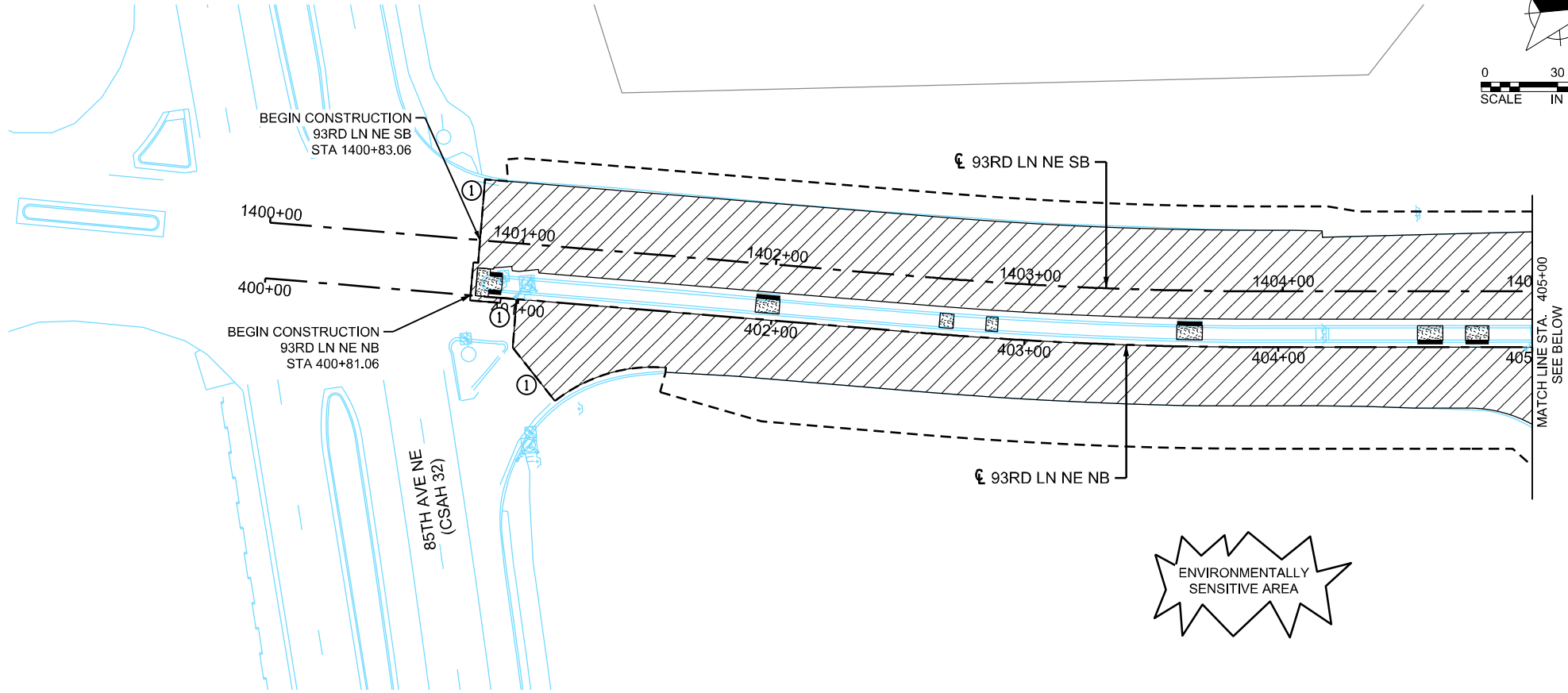
CITY PROJECT 21-06

SHEET 107 OF 256 SHEETS

PLOTTED/REVISED: 3/29/2021 12:54:27 PM

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93RD LANE NE (MSAS 125)



wsb

WSB PROJECT NO.: 016987-000

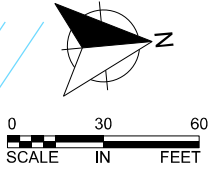
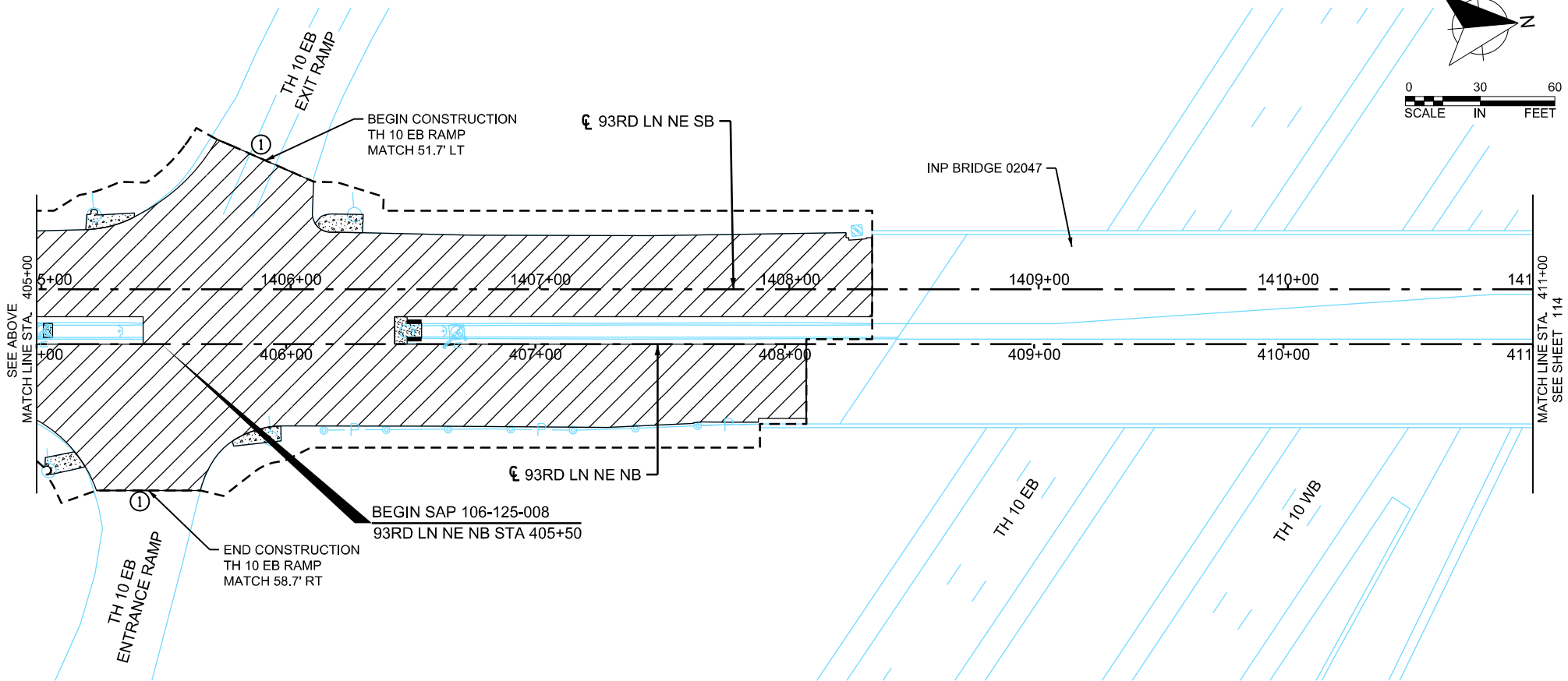
SCALE: AS SHOWN
 PLAN BY: AJF
 DESIGN BY: AJF
 CHECK BY: NEH

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.

NICHOLAS E. HERTIGES, PE
 DATE: 3/29/2021 LIC. NO.: 44620

93RD LANE NE (MSAS 125)



LEGEND

- REMOVE BITUMINOUS PAVEMENT
- REMOVE CONCRETE PAVEMENT
- REMOVE CONCRETE WALK
- REMOVE BITUMINOUS DRIVEWAY PAVEMENT
- REMOVE CONCRETE DRIVEWAY PAVEMENT
- REMOVE CONCRETE MEDIAN
- REMOVE CONCRETE CURB & GUTTER
- GRADING LIMITS (APPROX.)
- REMOVE SEWER PIPE (STORM)
- PROTECT TREE (INCIDENTAL)
- REMOVE VALVE BOX
- REMOVE HYDRANT, REMOVE GATE VALVE & BOX
- REMOVE FRAME & RING CASTING
- REMOVE DRAINAGE STRUCTURE
- ADJUST GATE VALVE & BOX
- SAWING BITUMINOUS PAVEMENT (FULL DEPTH)
- SAWING CONCRETE PAVEMENT (FULL DEPTH)
- REMOVE MAIL BOX SUPPORT
- CLEAR & GRUB TREE

GENERAL NOTES:

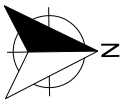
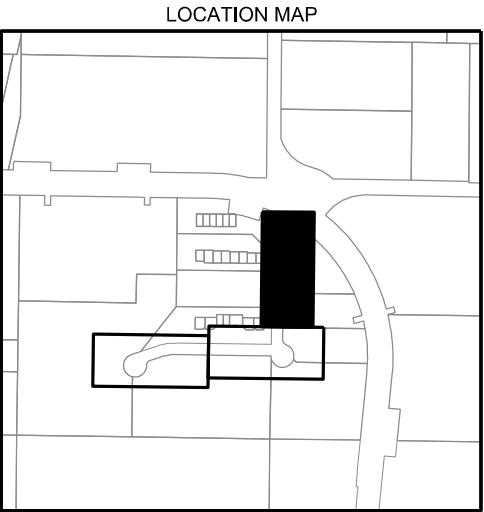
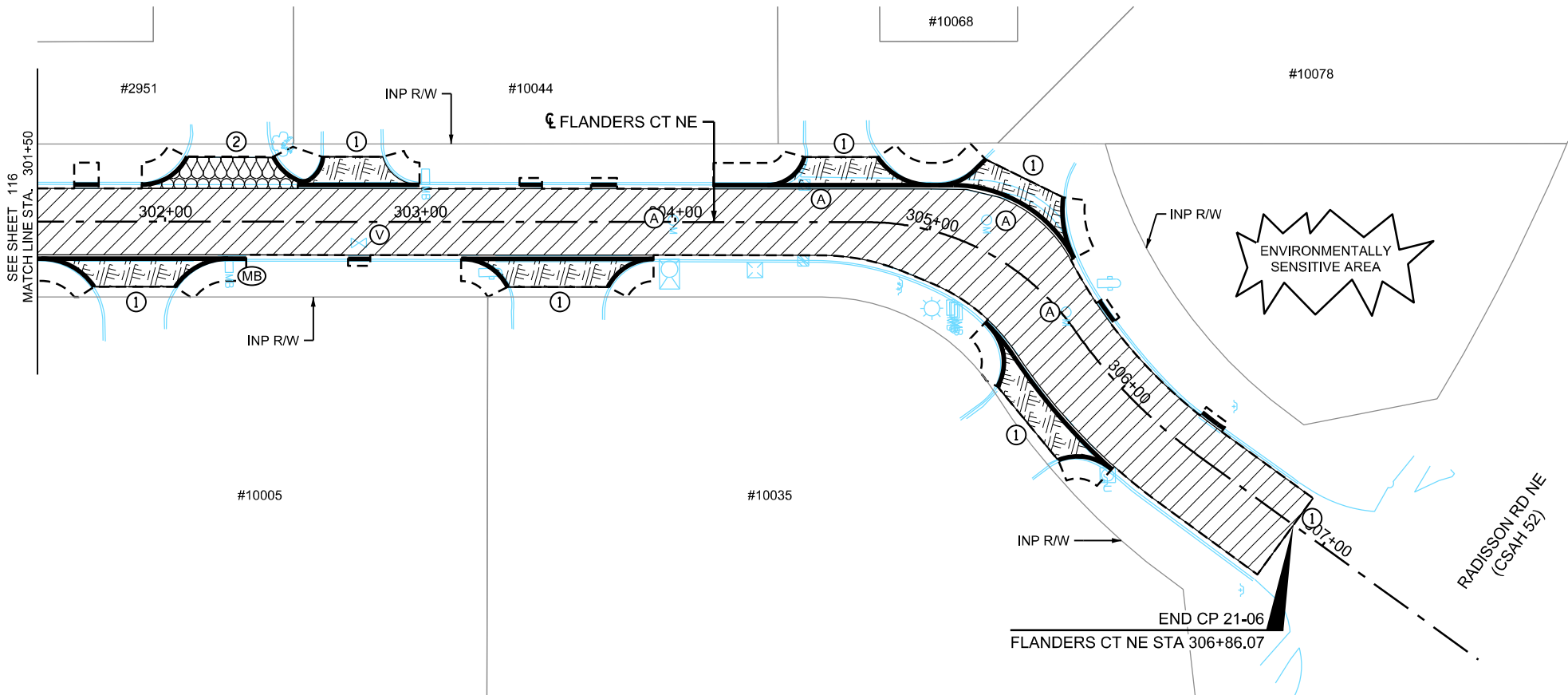
- REMOVAL OF AGGREGATE BASE AND SURFACING SHALL BE INCLUDED IN EXCAVATION-COMMON.
- ALL REMOVAL ITEMS SHALL BE DISPOSED OF OFF THE PROJECT SITE.
- SAWING OF CONCRETE CURB & GUTTER, CONCRETE WALK SHALL BE INCIDENTAL.
- DRIVEWAY REMOVALS ARE SHOWN TO THE RIGHT OF WAY FOR ILLUSTRATIVE PURPOSES ONLY. ACTUAL EXTENT OF DRIVEWAY REMOVAL WILL BE DETERMINED IN THE FIELD BY THE ENGINEER. REFER TO REMOVAL TABULATION FOR EXISTING PAVEMENT DEPTHS.
- CONCRETE CURB & GUTTER REMOVAL TO BE VERIFIED IN THE FIELD BY THE ENGINEER.

CITY OF BLAINE, MN
 2021 STREET RECONSTRUCTIONS
 SAP 106-125-008
 SAP 106-130-008

REMOVAL PLANS

CITY PROJECT 21-06
 SHEET 113 OF 256 SHEETS

FLANDERS COURT NE



LEGEND

- REMOVE BITUMINOUS PAVEMENT
- REMOVE CONCRETE PAVEMENT
- REMOVE CONCRETE WALK
- REMOVE BITUMINOUS DRIVEWAY PAVEMENT
- REMOVE CONCRETE DRIVEWAY PAVEMENT
- REMOVE CONCRETE MEDIAN
- REMOVE CONCRETE CURB & GUTTER
- GRADING LIMITS (APPROX.)
- REMOVE SEWER PIPE (STORM)
- PROTECT TREE (INCIDENTAL)
- REMOVE VALVE BOX
- REMOVE HYDRANT, REMOVE GATE VALVE & BOX
- REMOVE FRAME & RING CASTING
- REMOVE DRAINAGE STRUCTURE
- ADJUST GATE VALVE & BOX
- SAWING BITUMINOUS PAVEMENT (FULL DEPTH)
- SAWING CONCRETE PAVEMENT (FULL DEPTH)
- REMOVE MAIL BOX SUPPORT
- CLEAR & GRUB TREE

GENERAL NOTES:

- REMOVAL OF AGGREGATE BASE AND SURFACING SHALL BE INCLUDED IN EXCAVATION-COMMON.
- ALL REMOVAL ITEMS SHALL BE DISPOSED OF OFF THE PROJECT SITE.
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- REFER TO REMOVAL TABULATION FOR EXISTING PAVEMENT DEPTHS.
- CONCRETE CURB & GUTTER REMOVAL TO BE VERIFIED IN THE FIELD BY THE ENGINEER.

WSB PROJECT NO.:
016987-000

SCALE: AS SHOWN
DESIGN BY: AJF
PLAN BY: AJF
CHECK BY: NEH

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.

NICHOLAS E. HERTIGES, PE
DATE: 3/29/2021 LIC. NO.: 44620

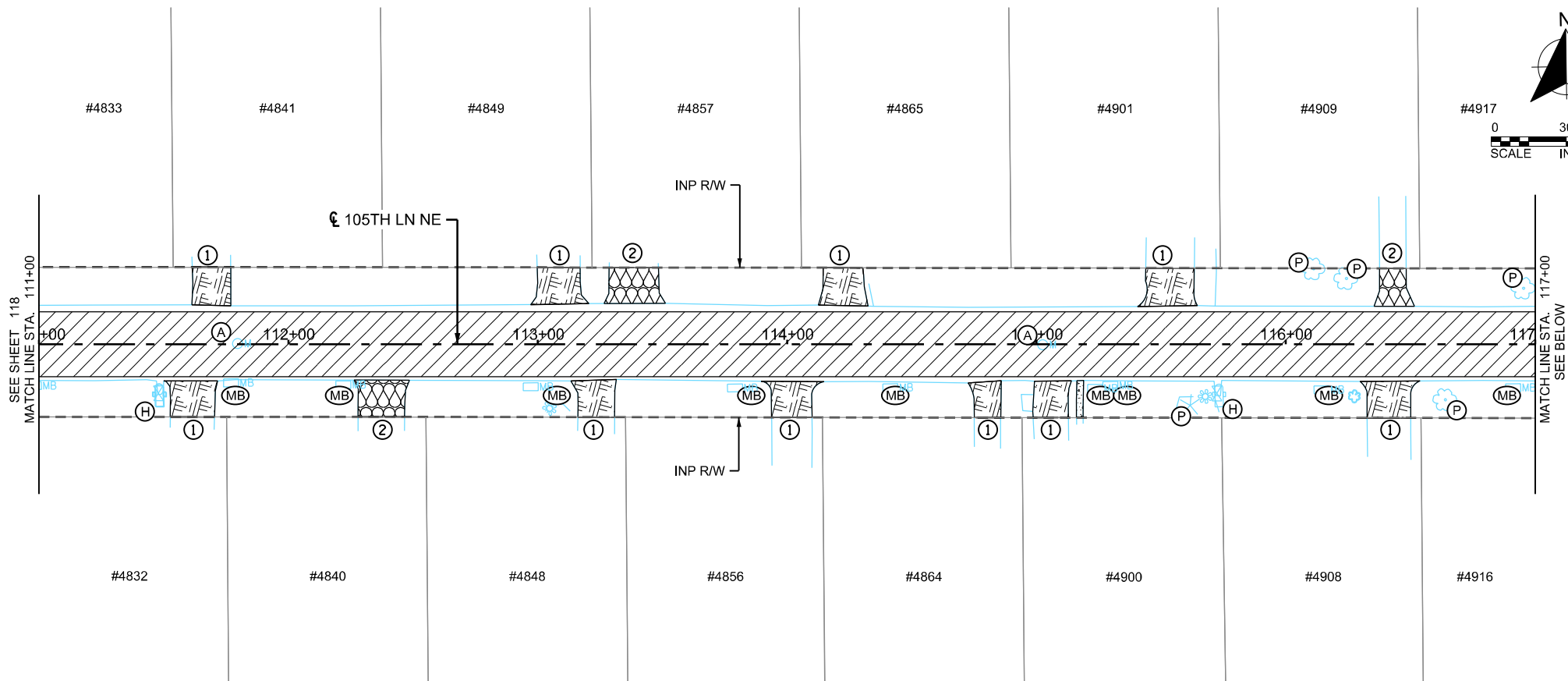
CITY OF BLAINE, MN
2021 STREET
RECONSTRUCTIONS
SAP 106-125-008
SAP 106-130-008

REMOVAL PLANS

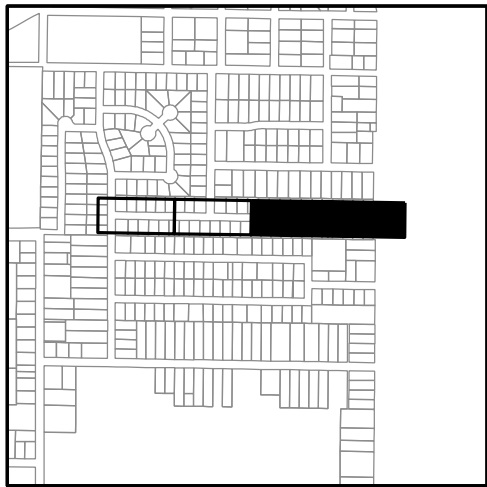
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3/29/2021
12:54:34 PM
PLOTTED/REVISED:

K:\016987-000\Cad\Plan\16987-000-C-DEMO-PLAN-13.dgn
PATH & FILENAME:

105TH LANE NE



LOCATION MAP



wsb

WSB PROJECT NO.:
016987-000

SCALE: AS SHOWN
PLAN BY: AJF
DESIGN BY: AJF
CHECK BY: NEH

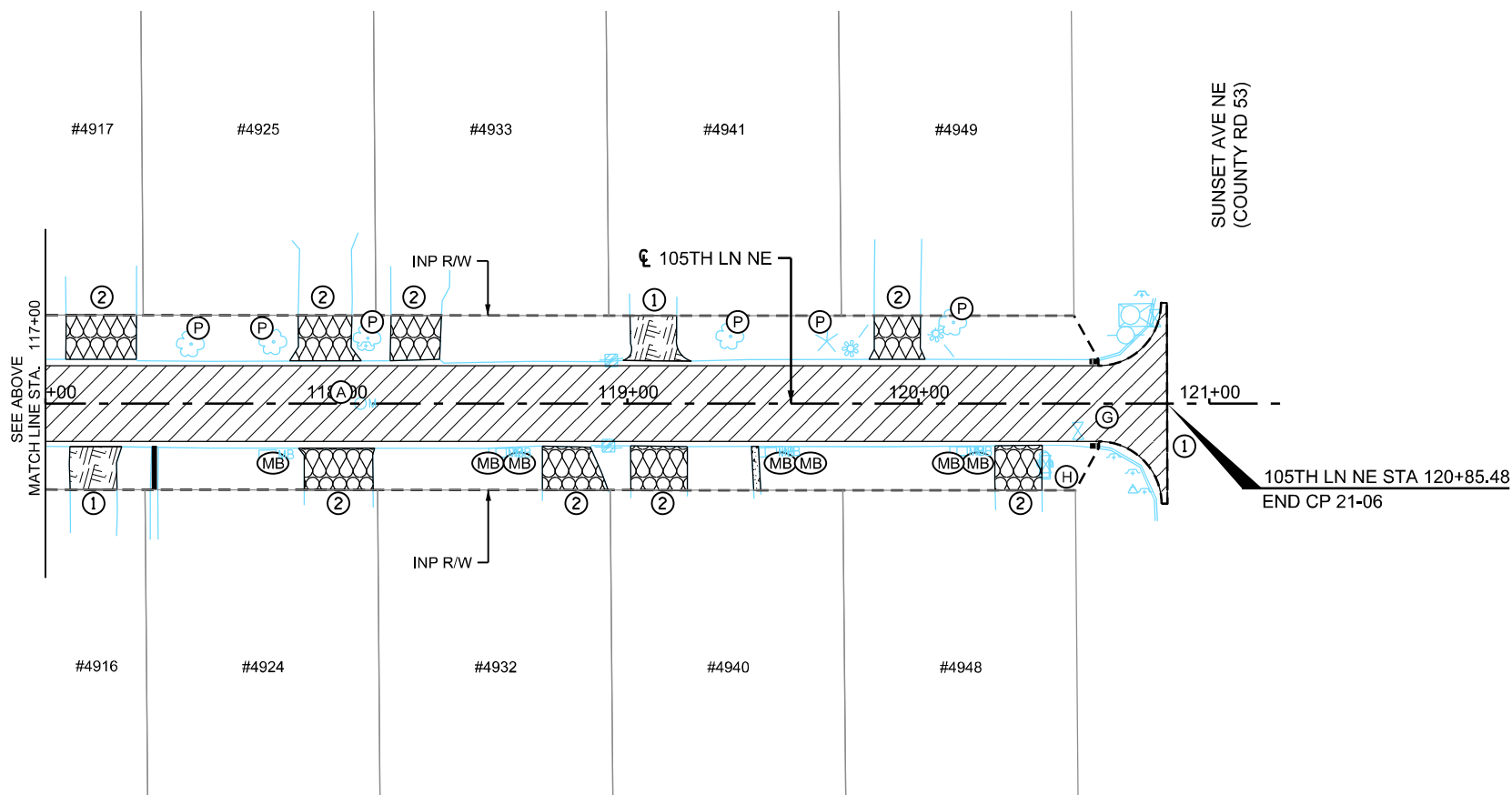
REVISIONS

NO.	DATE	DESCRIPTION

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NICHOLAS E. HERZOGES, PE
DATE: 3/29/2021 LIC. NO.: 44620

105TH LANE NE



LEGEND

- REMOVE BITUMINOUS PAVEMENT
- REMOVE CONCRETE PAVEMENT
- REMOVE CONCRETE WALK
- REMOVE BITUMINOUS DRIVEWAY PAVEMENT
- REMOVE CONCRETE DRIVEWAY PAVEMENT
- REMOVE CONCRETE MEDIAN
- REMOVE CONCRETE CURB & GUTTER
- GRADING LIMITS (APPROX.)
- REMOVE SEWER PIPE (STORM)
- PROTECT TREE (INCIDENTAL)
- REMOVE VALVE BOX
- REMOVE HYDRANT, REMOVE GATE VALVE & BOX
- REMOVE FRAME & RING CASTING
- REMOVE DRAINAGE STRUCTURE
- ADJUST GATE VALVE & BOX
- SAWING BITUMINOUS PAVEMENT (FULL DEPTH)
- SAWING CONCRETE PAVEMENT (FULL DEPTH)
- REMOVE MAIL BOX SUPPORT
- CLEAR & GRUB TREE

GENERAL NOTES:

- REMOVAL OF AGGREGATE BASE AND SURFACING SHALL BE INCLUDED IN EXCAVATION-COMMON.
- ALL REMOVAL ITEMS SHALL BE DISPOSED OF OFF THE PROJECT SITE.
- SAWING OF CONCRETE CURB & GUTTER, CONCRETE WALK SHALL BE INCIDENTAL.
- DRIVEWAY REMOVALS ARE SHOWN TO THE RIGHT OF WAY FOR ILLUSTRATIVE PURPOSES ONLY. ACTUAL EXTENT OF DRIVEWAY REMOVAL WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- REFER TO REMOVAL TABULATION FOR EXISTING PAVEMENT DEPTHS.
- CONCRETE CURB & GUTTER REMOVAL TO BE VERIFIED IN THE FIELD BY THE ENGINEER.

CITY OF BLAINE, MN

2021 STREET
RECONSTRUCTIONS

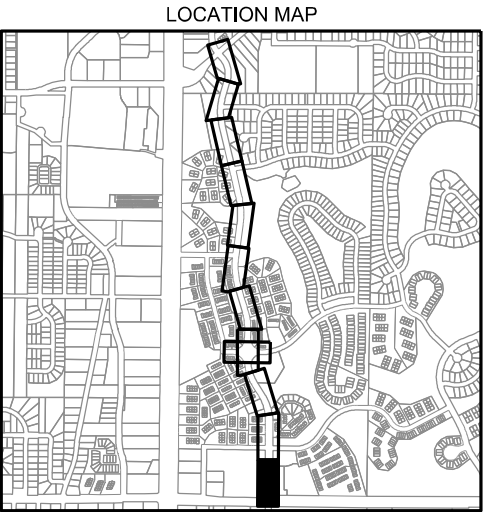
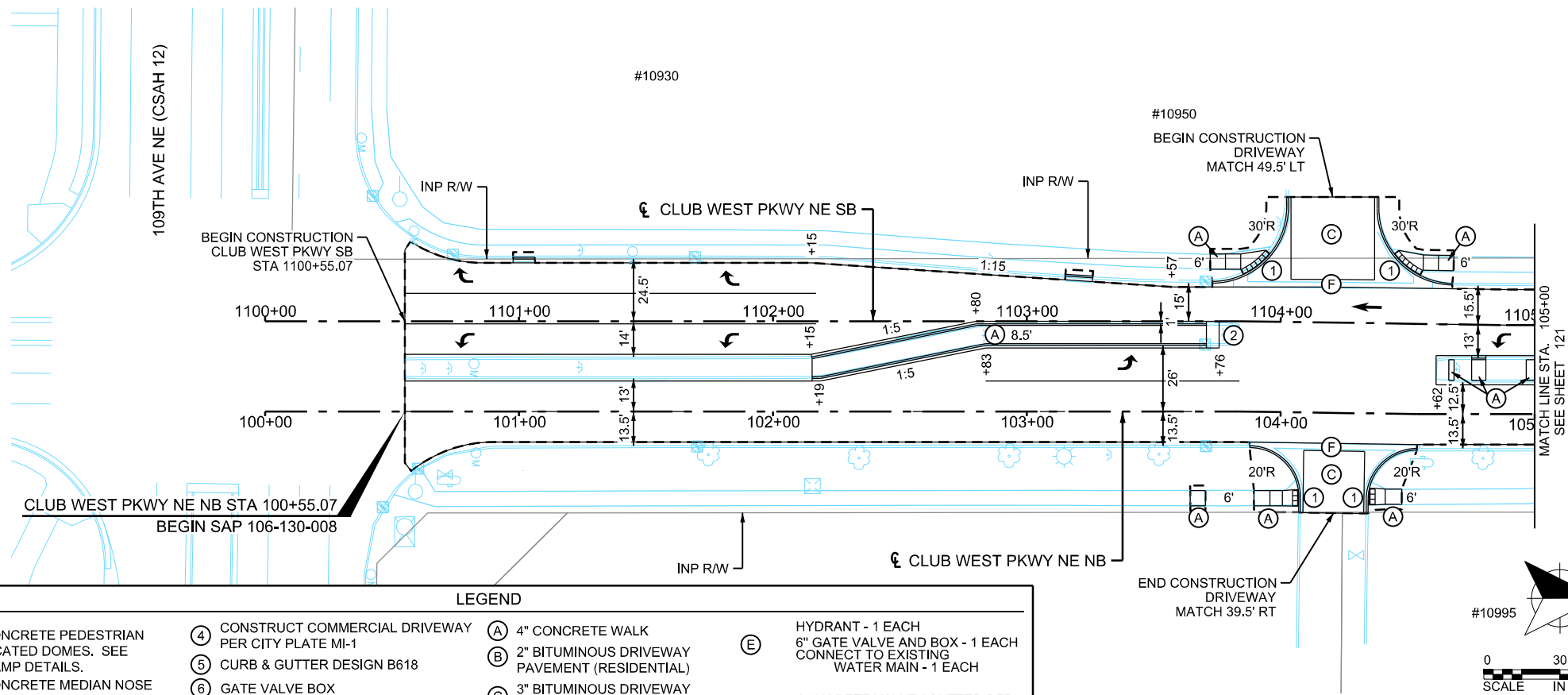
SAP 106-125-008
SAP 106-130-008

REMOVAL PLANS

CITY
PROJECT
21-06

SHEET
119
OF
256
SHEETS

CLUB WEST PKWY NE (MSAS 130)



wsb

WSB PROJECT NO.:
016987-000

SCALE: AS SHOWN
DESIGN BY: AJF
PLAN BY: AJF
CHECK BY: NEH

GENERAL NOTES

- ALL DIMENSIONS ARE TO FACE OF CURB OR EDGE OF BITUMINOUS UNLESS OTHERWISE NOTED.
- SEE TYPICAL SECTIONS FOR CURB AND GUTTER DESIGN UNLESS NOTED OTHERWISE.
- CURB AND GUTTER IS DESIGN B618 UNLESS NOTED OTHERWISE.
- SEE ALIGNMENT PLAN FOR CURVE DATA.
- SEE INTERSECTION DETAILS FOR ADDITIONAL INFORMATION AT ROADWAY INTERSECTIONS.

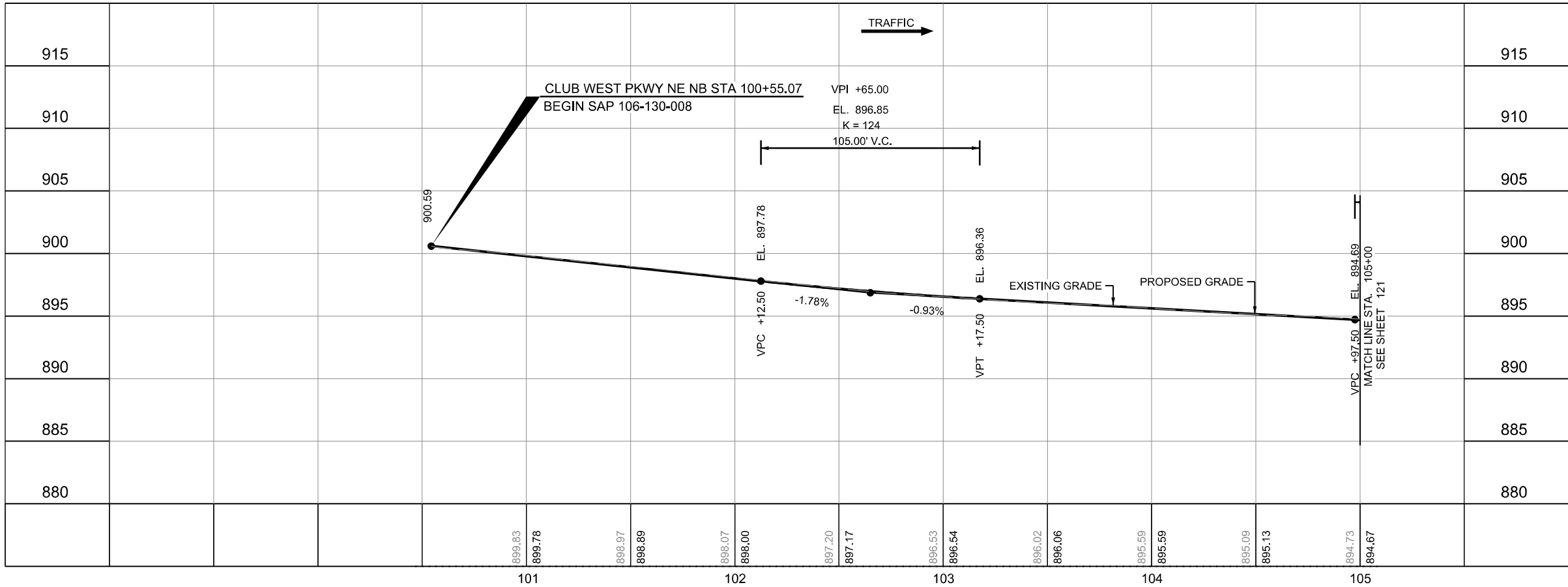
VERTICAL CONTROL

ELEVATIONS FOR THIS PLAN ARE BASED ON NAVD 88 DATUM.

LEGEND

- | | | | |
|--|--|--|---|
| 1. CONSTRUCT CONCRETE PEDESTRIAN RAMP W/ TRUNCATED DOMES. SEE PEDESTRIAN RAMP DETAILS. | 4. CONSTRUCT COMMERCIAL DRIVEWAY PER CITY PLATE MI-1 | A. 4" CONCRETE WALK | E. HYDRANT - 1 EACH |
| 2. CONSTRUCT CONCRETE MEDIAN NOSE PER STANDARD PLATE 7113. | 5. CURB & GUTTER DESIGN B618 | B. 2" BITUMINOUS DRIVEWAY PAVEMENT (RESIDENTIAL) | F. 6" GATE VALVE AND BOX - 1 EACH |
| 3. CURB TRANSITION, SEE MISCELLANEOUS DETAILS. | 6. GATE VALVE BOX | C. 3" BITUMINOUS DRIVEWAY PAVEMENT (COMMERCIAL) | CONNECT TO EXISTING WATER MAIN - 1 EACH |
| | 7. FRAME & RING CASTING | D. 6" CONCRETE DRIVEWAY PAVEMENT | F. CONCRETE VALLEY GUTTER PER CITY DETAIL PLATE ST-4. |
| | 8. ADJUST FRAME & RING CASTING | | --- GRADING LIMITS (APPROX) |

CLUB WEST PKWY NE (MSAS 130) NB PROFILE



REVISIONS

NO.	DESCRIPTION	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.

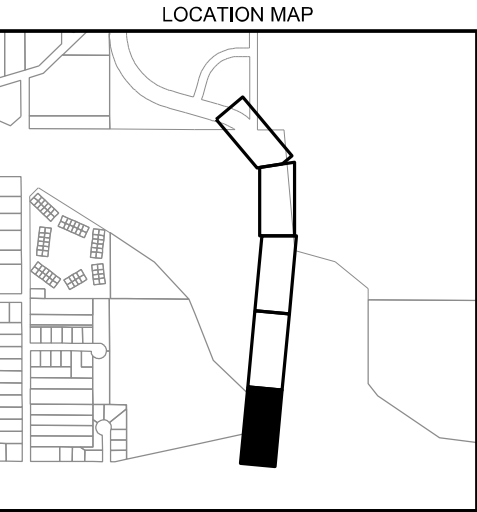
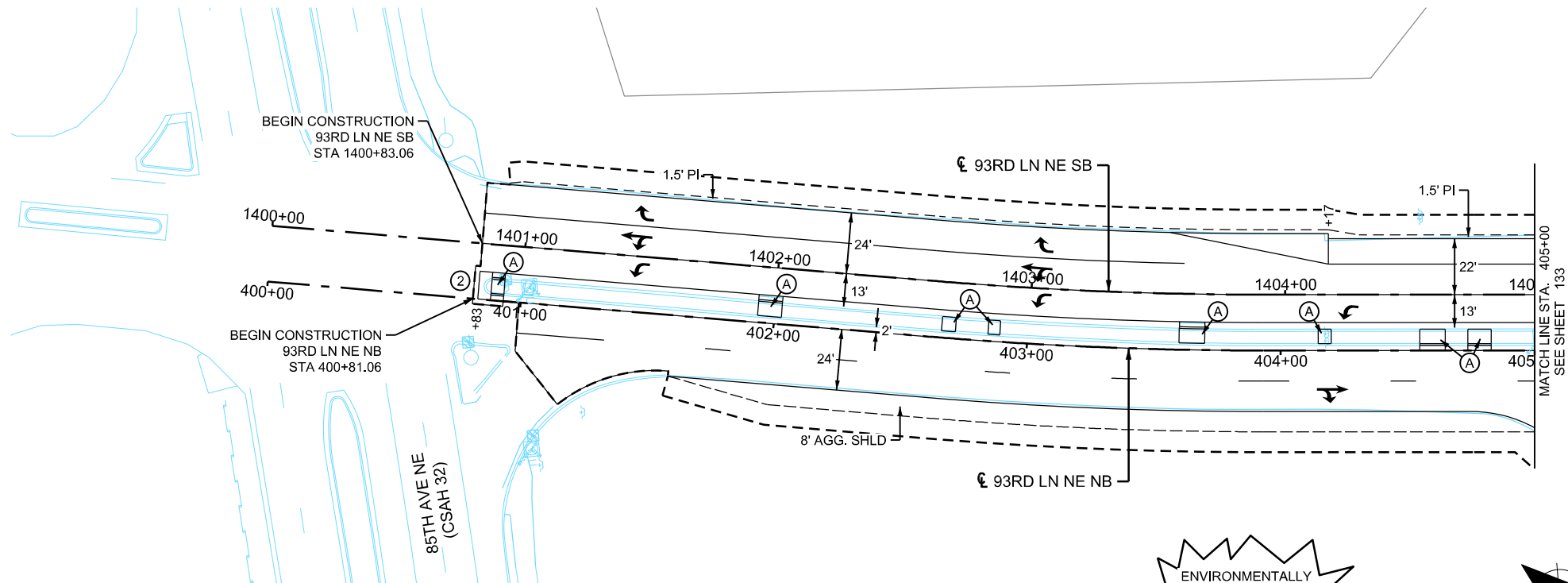
NICHOLAS E. HERTIGES, PE
DATE: 3/29/2021 LIC. NO. 44620

CITY OF BLAINE, MN
2021 STREET
RECONSTRUCTIONS
SAP 106-125-008
SAP 106-130-008

STREET,
WATERMAIN,
& SANITARY
SEWER PLANS

CITY PROJECT 21-06
SHEET 120 OF 256 SHEETS

93RD LANE NE (MSAS 125)



wsb

WSB PROJECT NO.:
016987-000

SCALE: AS SHOWN
DESIGN BY: AJF
PLAN BY: AJF
CHECK BY: NEH

REVISIONS

NO.	DESCRIPTION	DATE

GENERAL NOTES

- ALL DIMENSIONS ARE TO FACE OF CURB OR EDGE OF BITUMINOUS UNLESS OTHERWISE NOTED.
- SEE TYPICAL SECTIONS FOR CURB AND GUTTER DESIGN UNLESS NOTED OTHERWISE.
- CURB AND GUTTER IS DESIGN B618 UNLESS NOTED OTHERWISE.
- SEE ALIGNMENT PLAN FOR CURVE DATA.
- SEE INTERSECTION DETAILS FOR ADDITIONAL INFORMATION AT ROADWAY INTERSECTIONS.

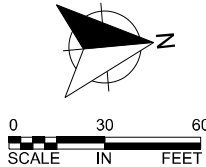
VERTICAL CONTROL

ELEVATIONS FOR THIS PLAN ARE BASED ON NAVD 88 DATUM.

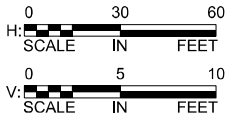
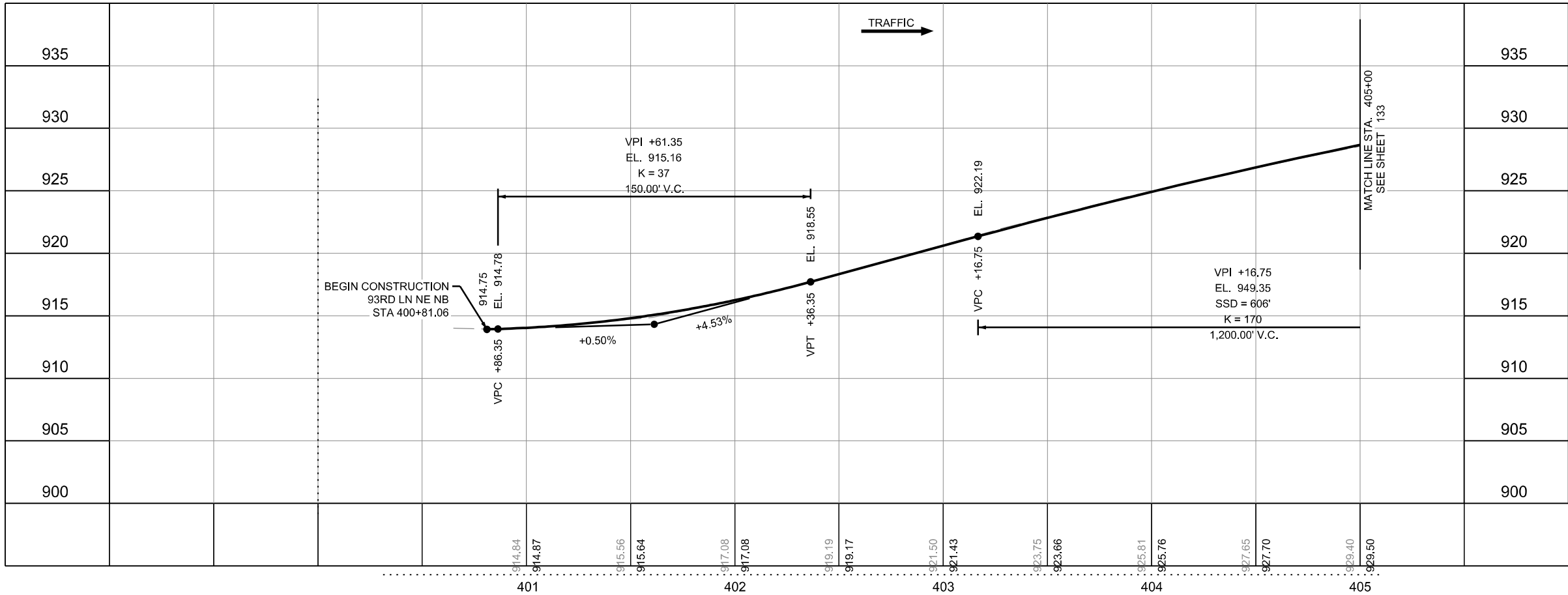
LEGEND

- | | | | |
|---|---|---|--|
| ① CONSTRUCT CONCRETE PEDESTRIAN RAMP W/ TRUNCATED DOMES. SEE PEDESTRIAN RAMP DETAILS. | ④ CONSTRUCT COMMERCIAL DRIVEWAY PER CITY PLATE MI-1 | Ⓐ 4" CONCRETE WALK | Ⓔ HYDRANT - 1 EACH |
| ② CONSTRUCT CONCRETE MEDIAN NOSE PER STANDARD PLATE 7113. | ⑤ CURB & GUTTER DESIGN B618 | Ⓑ 2" BITUMINOUS DRIVEWAY PAVEMENT (RESIDENTIAL) | Ⓕ 6" GATE VALVE AND BOX - 1 EACH |
| ③ CURB TRANSITION, SEE MISCELLANEOUS DETAILS. | ⑥ GATE VALVE BOX | Ⓒ 3" BITUMINOUS DRIVEWAY PAVEMENT (COMMERCIAL) | Ⓖ CONCRETE VALLEY GUTTER PER CITY DETAIL PLATE ST-4. |
| | ⑦ FRAME & RING CASTING | Ⓓ 8" CONCRETE DRIVEWAY PAVEMENT | --- GRADING LIMITS (APPROX) |
| | ⑧ ADJUST FRAME & RING CASTING | | |

ENVIRONMENTALLY SENSITIVE AREA



93RD LANE NE (MSAS 125) NB PROFILE



CITY OF BLAINE, MN
2021 STREET
RECONSTRUCTIONS
SAP 106-125-008
SAP 106-130-008

STREET,
WATERMAIN,
& SANITARY
SEWER PLANS

CITY PROJECT
21-06
SHEET
132
OF
256
SHEETS

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.

NICHOLAS E. HERTIGES, PE
DATE: 3/29/2021 LIC. NO.: 44620

PLOTTED/REVISED: 3/29/2021 12:54:57 PM

PATH & FILENAME: K:\016987-000\Cad\Plan\16987-000-C-CONS-PLAN-20.dgn

FLANDERS COURT NE

LOCATION MAP



wsb

WSB PROJECT NO.:
016987-000

SCALE: AS SHOWN
DESIGN BY: AJF
PLAN BY: AJF
CHECK BY: NEH

REVISIONS

NO.	DATE	DESCRIPTION

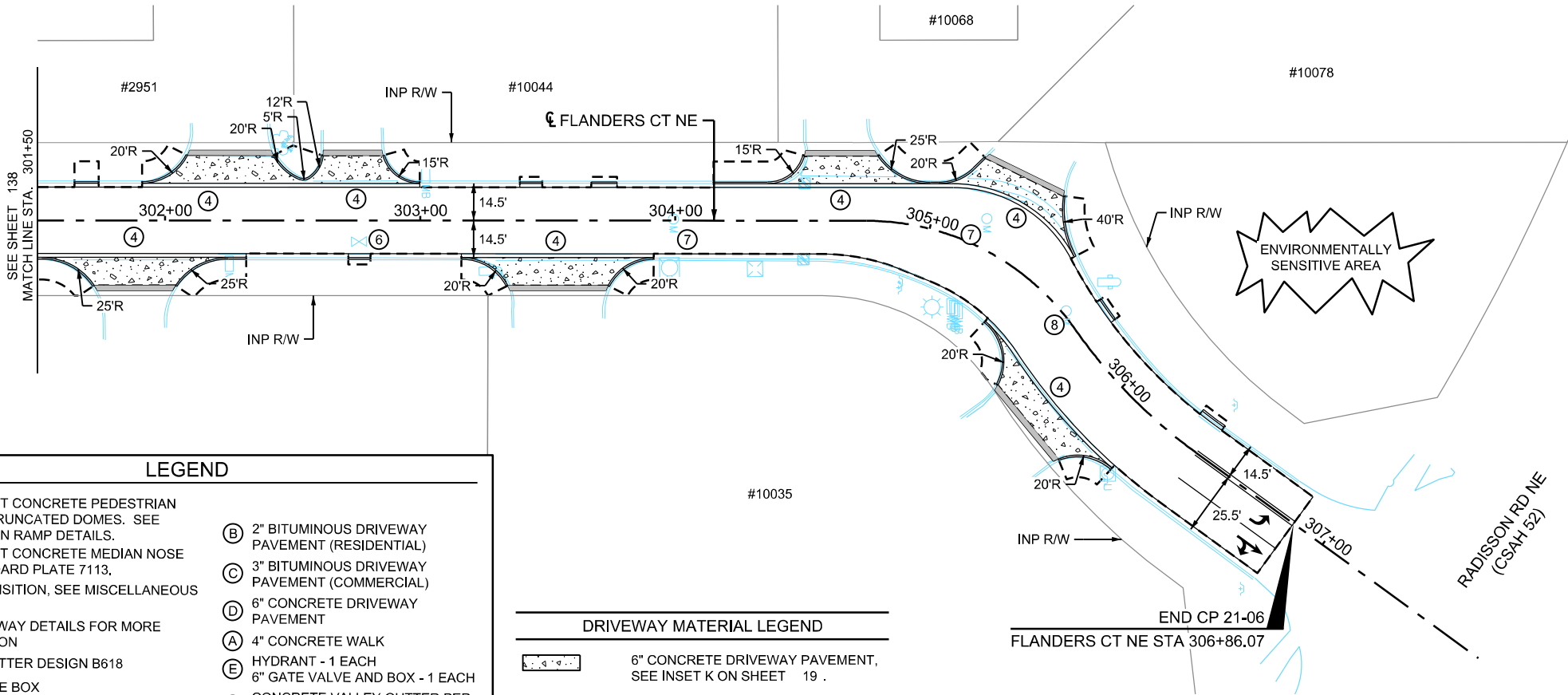
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NICHOLAS E. HERTIGES, PE
DATE: 3/29/2021 LIC. NO.: 44620

CITY OF BLAINE, MN
2021 STREET
RECONSTRUCTIONS
SAP 106-125-008
SAP 106-130-008

STREET,
WATERMAIN,
& SANITARY
SEWER PLANS

CITY PROJECT 21-06
SHEET 139 OF 256 SHEETS



LEGEND

- 1. CONSTRUCT CONCRETE PEDESTRIAN RAMP W/ TRUNCATED DOMES. SEE PEDESTRIAN RAMP DETAILS.
- 2. CONSTRUCT CONCRETE MEDIAN NOSE PER STANDARD PLATE 7113.
- 3. CURB TRANSITION, SEE MISCELLANEOUS DETAILS.
- 4. SEE DRIVEWAY DETAILS FOR MORE INFORMATION
- 5. CURB & GUTTER DESIGN B618
- 6. GATE VALVE BOX
- 7. FRAME & RING CASTING
- 7. ADJUST FRAME & RING CASTING
- 8. 2" BITUMINOUS DRIVEWAY PAVEMENT (RESIDENTIAL)
- 9. 3" BITUMINOUS DRIVEWAY PAVEMENT (COMMERCIAL)
- 10. 6" CONCRETE DRIVEWAY PAVEMENT
- 11. 4" CONCRETE WALK
- 12. HYDRANT - 1 EACH
- 13. 6" GATE VALVE AND BOX - 1 EACH
- 14. CONCRETE VALLEY GUTTER PER CITY DETAIL PLATE ST-4
- 15. GRADING LIMITS (APPROX)

DRIVEWAY MATERIAL LEGEND

- 6" CONCRETE DRIVEWAY PAVEMENT, SEE INSET K ON SHEET 19.
- 3" BITUMINOUS DRIVEWAY PAVEMENT, SEE INSET J ON SHEET 19.

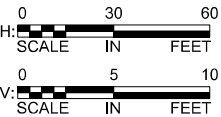
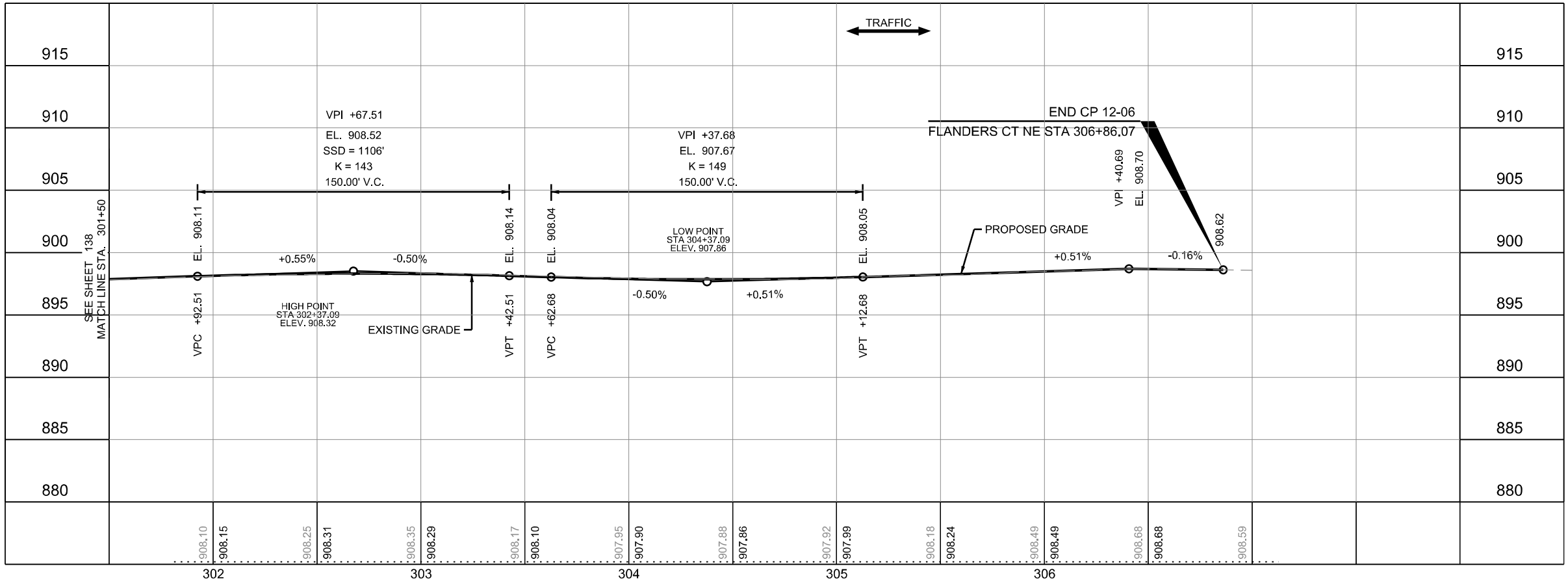
GENERAL NOTES

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- SEE TYPICAL SECTIONS FOR CURB AND GUTTER DESIGN UNLESS NOTED OTHERWISE.
- CURB AND GUTTER IS DESIGN B618 UNLESS NOTED OTHERWISE.
- SEE ALIGNMENT PLAN FOR CURVE DATA.
- SEE INTERSECTION DETAILS FOR ADDITIONAL INFORMATION AT ROADWAY INTERSECTIONS.

VERTICAL CONTROL

ELEVATIONS FOR THIS PLAN ARE BASED ON NAVD 88 DATUM.

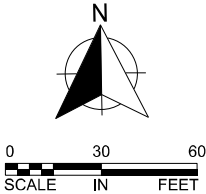
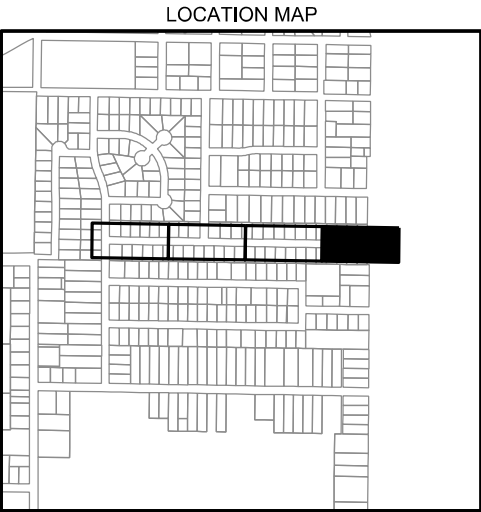
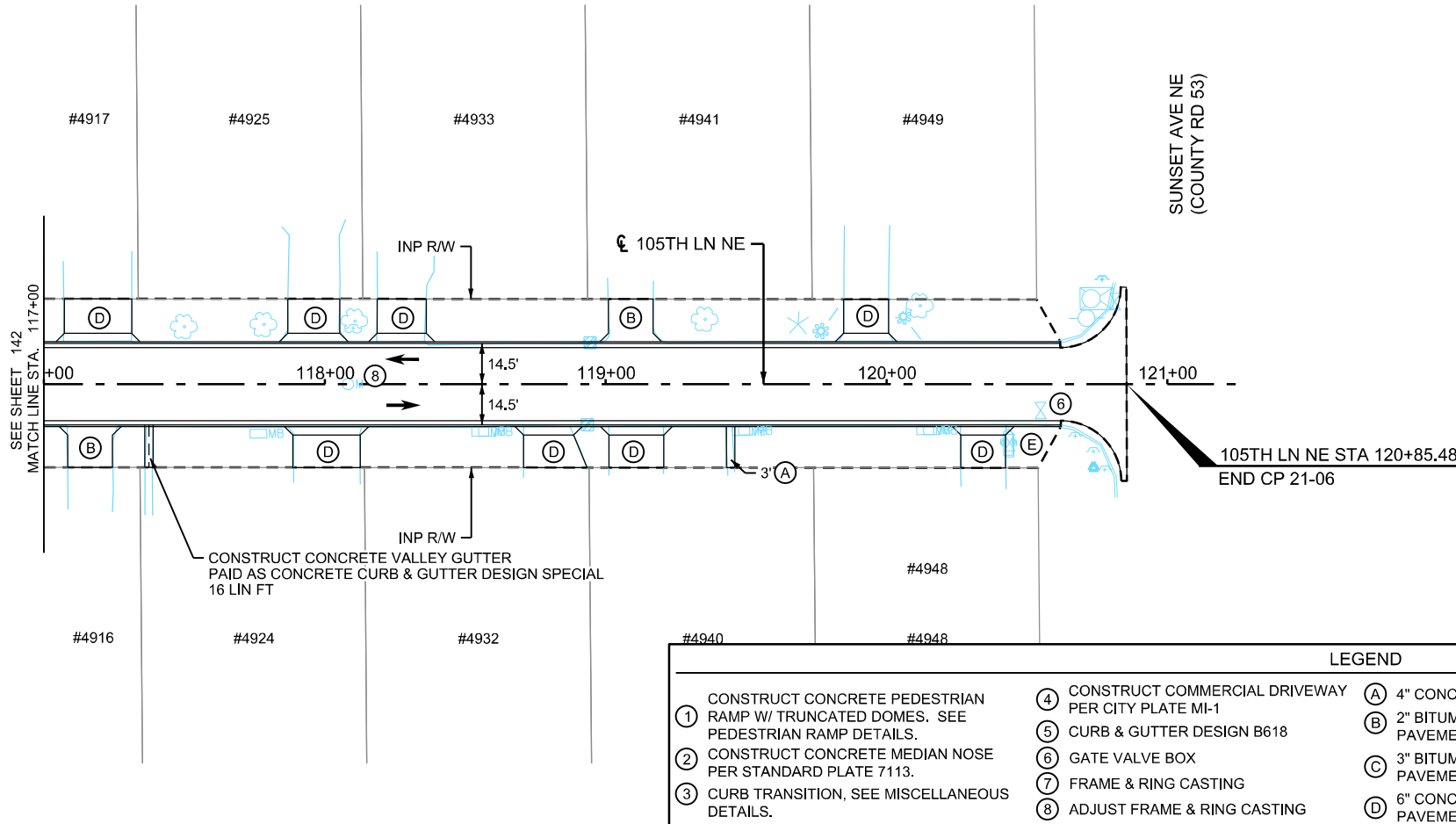
FLANDERS COURT NE PROFILE



PLOTTED/REVISED: 3/29/2021 12:55:01 PM

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105TH LANE NE



- GENERAL NOTES**
- ALL DIMENSIONS ARE TO FACE OF CURB OR EDGE OF BITUMINOUS UNLESS OTHERWISE NOTED.
 - SEE TYPICAL SECTIONS FOR CURB AND GUTTER DESIGN UNLESS NOTED OTHERWISE.
 - CURB AND GUTTER IS DESIGN B618 UNLESS NOTED OTHERWISE.
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 - SEE INTERSECTION DETAILS FOR ADDITIONAL INFORMATION AT ROADWAY INTERSECTIONS.
- VERTICAL CONTROL**
- ELEVATIONS FOR THIS PLAN ARE BASED ON NAVD 88 DATUM.



WSB PROJECT NO.: 016987-000

SCALE: AS SHOWN
PLAN BY: AJF

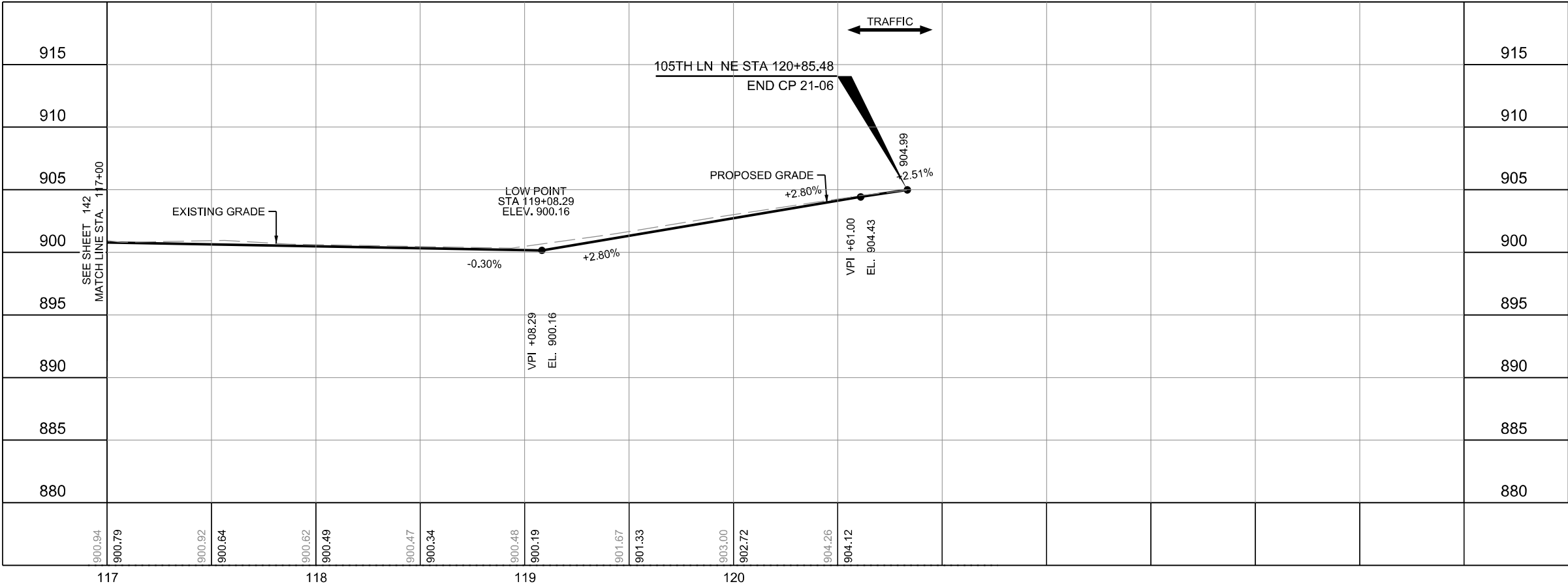
DESIGN BY: AJF
CHECK BY: NEH

REVISIONS	
NO.	DESCRIPTION

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Nicholas E. Hertges
NICHOLAS E. HERTGES, PE
DATE: 3/29/2021 LIC. NO. 44620

105TH LANE NE PROFILE



CITY OF BLAINE, MN

2021 STREET RECONSTRUCTIONS

SAP 106-125-008
SAP 106-130-008

STREET, WATERMAIN, & SANITARY SEWER PLANS

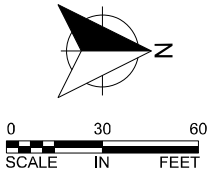
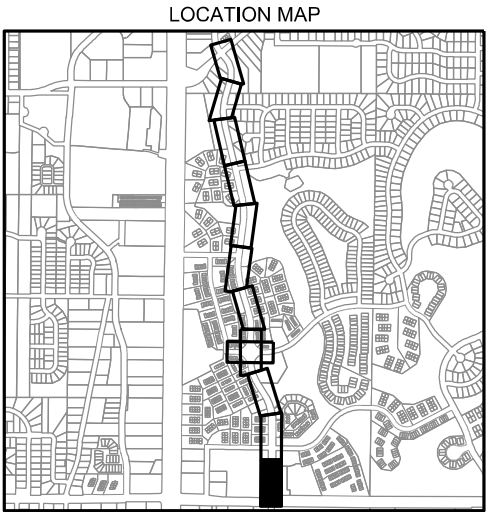
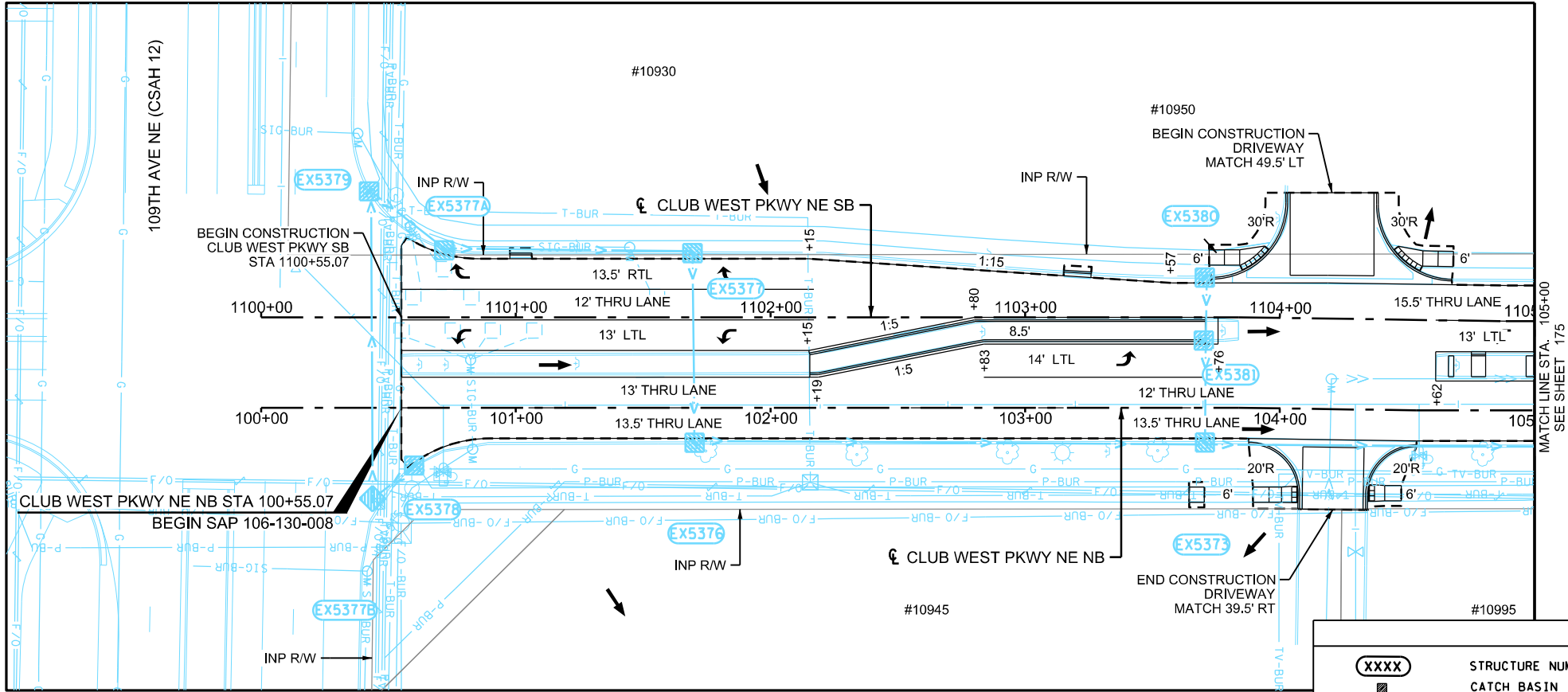
CITY PROJECT 21-06

SHEET 143 OF 256 SHEETS

PLOTTED/REVISED: 3/29/2021 12:55:29 PM

PATH & FILENAME: K:\016987-000\Cad\Plan\16987-000-C-DRAIN-PLAN-01.dgn

CLUB WEST PKWY NE (MSAS 130)

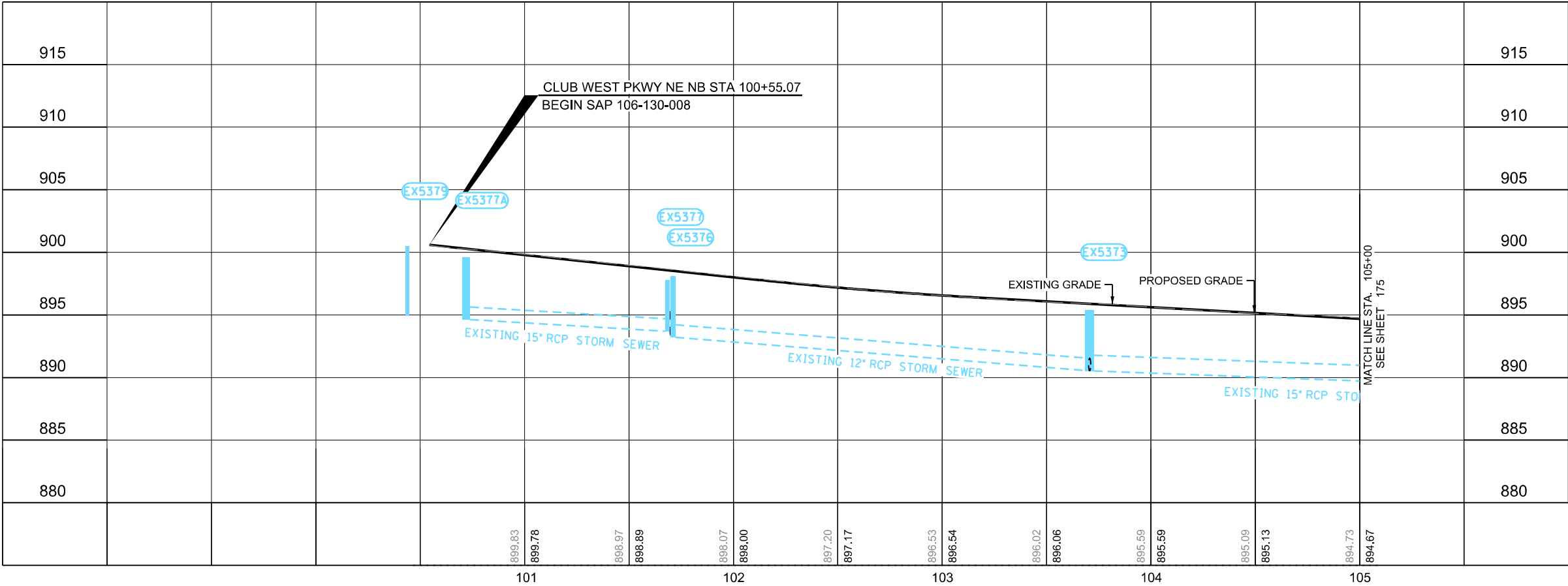


(A) REPLACE WITH NEW NEENAH R-3067V CASTING

LEGEND

- XXXX
 STRUCTURE NUMBER
 CATCH BASIN
 MANHOLE
 DROP INLET
 APRON
- SURFACE FLOW DIRECTION
 STORM SEWER PIPE
 INPLACE STORM SEWER
 CONSTRUCTION LIMITS

CLUB WEST PKWY NE (MSAS 130)



wsb

WSB PROJECT NO.: 016987-000

SCALE: AS SHOWN
 PLAN BY: FO
 DESIGN BY: KF
 CHECK BY: WCA

REVISIONS

NO.	DATE	DESCRIPTION

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William C. Alms, PE
 WILLIAM C. ALMS, PE
 DATE: 3/29/2021 LIC. NO.: 54301

CITY OF BLAINE, MN
 2021 STREET RECONSTRUCTIONS
 SAP 106-125-008
 SAP 106-130-008

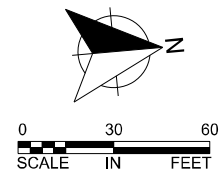
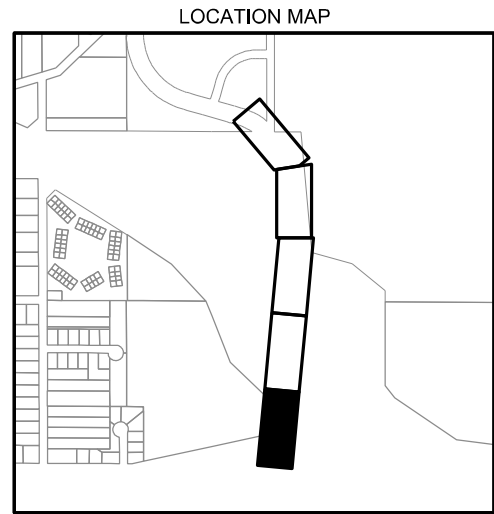
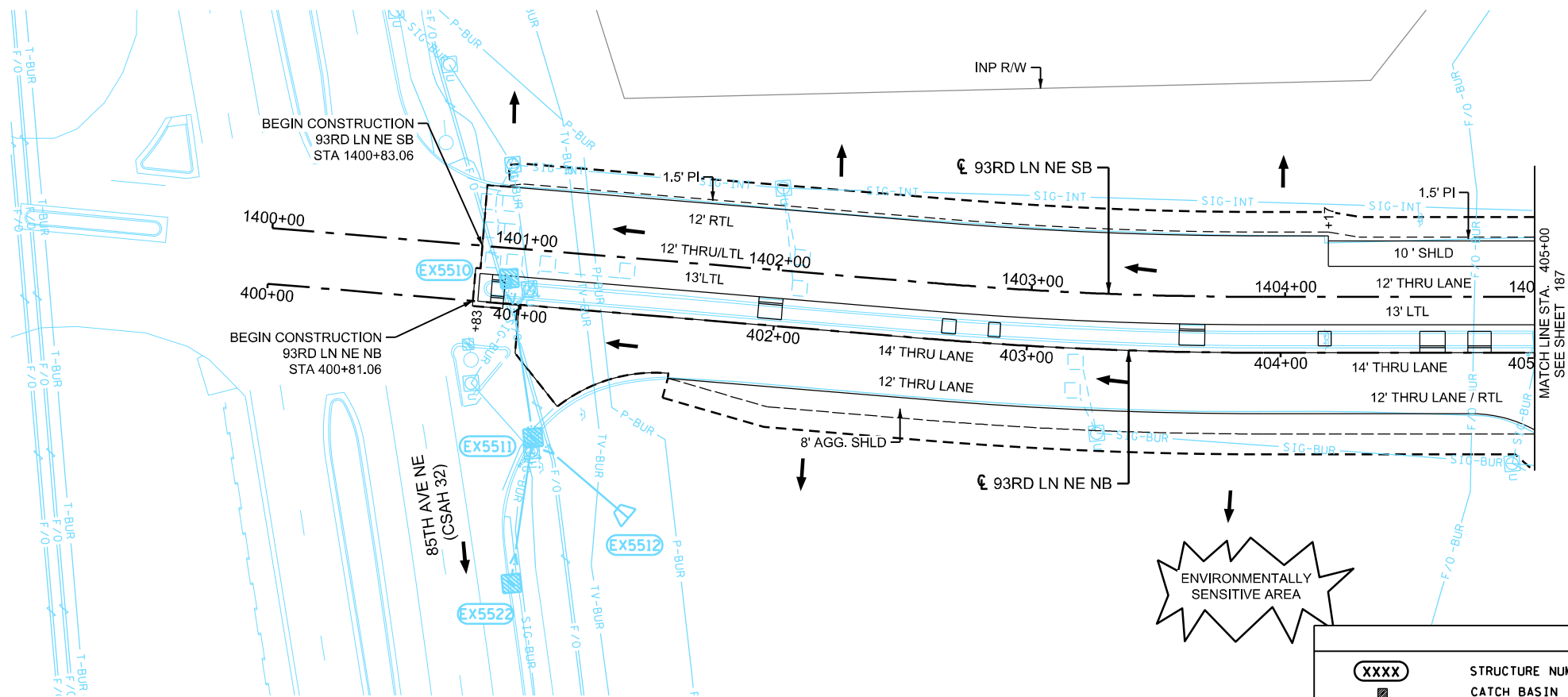
DRAINAGE PLANS & PROFILES

CITY PROJECT 21-06
 SHEET 174 OF 256 SHEETS

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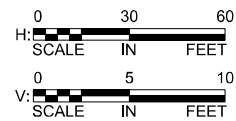
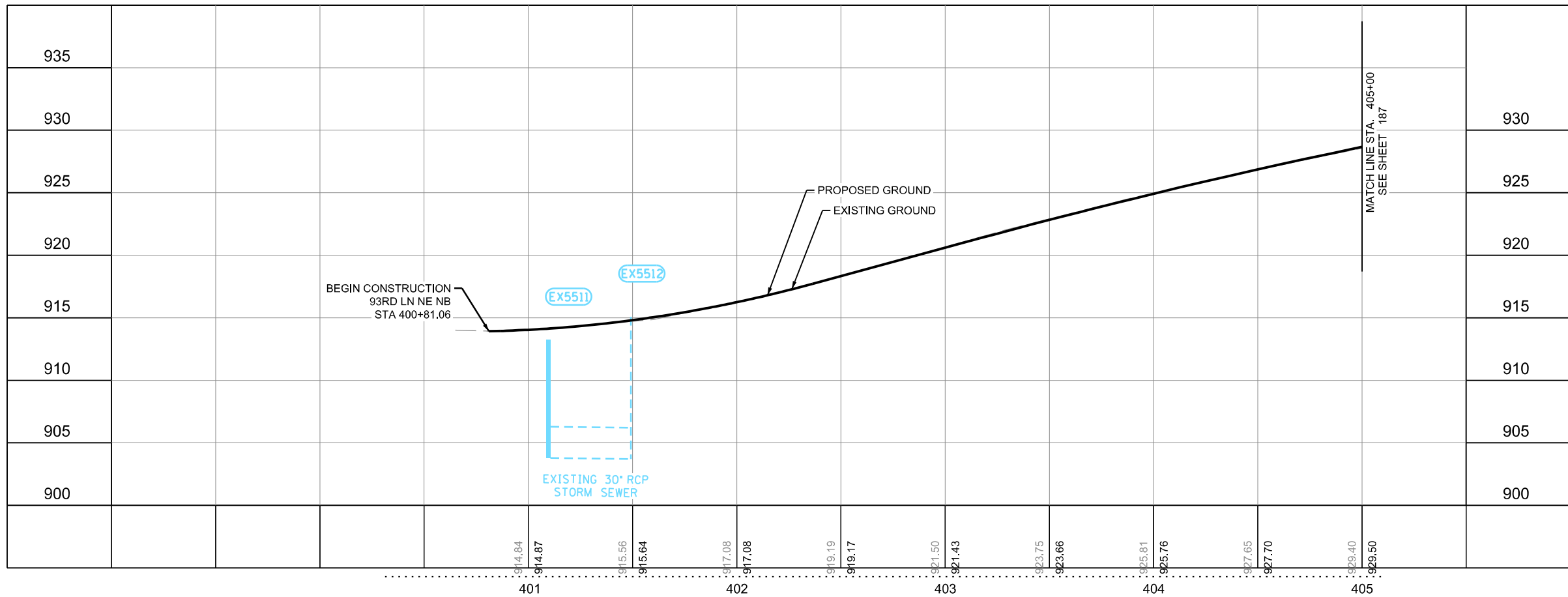
93RD LANE NE (MSAS 125)



LEGEND

- XXXX STRUCTURE NUMBER
- CATCH BASIN
- MANHOLE
- DROP INLET
- ▭ APRON
- SURFACE FLOW DIRECTION
- STORM SEWER PIPE
- - - INPLACE STORM SEWER
- - - CONSTRUCTION LIMITS

93RD LANE NE (MSAS 125) NB PROFILE



wsb

WSB PROJECT NO.: 016987-000

SCALE: AS SHOWN
 PLAN BY: FO
 DESIGN BY: KF
 CHECK BY: WCA

REVISIONS

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.

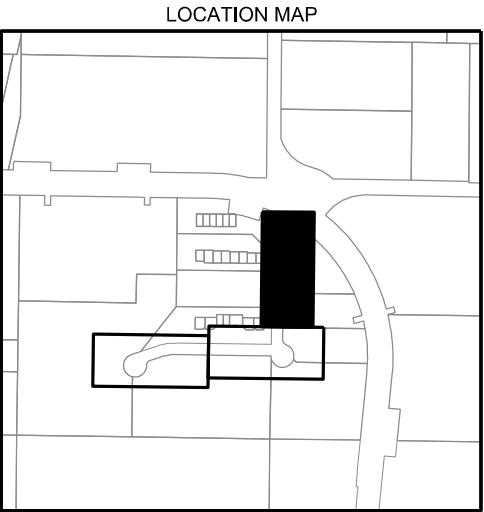
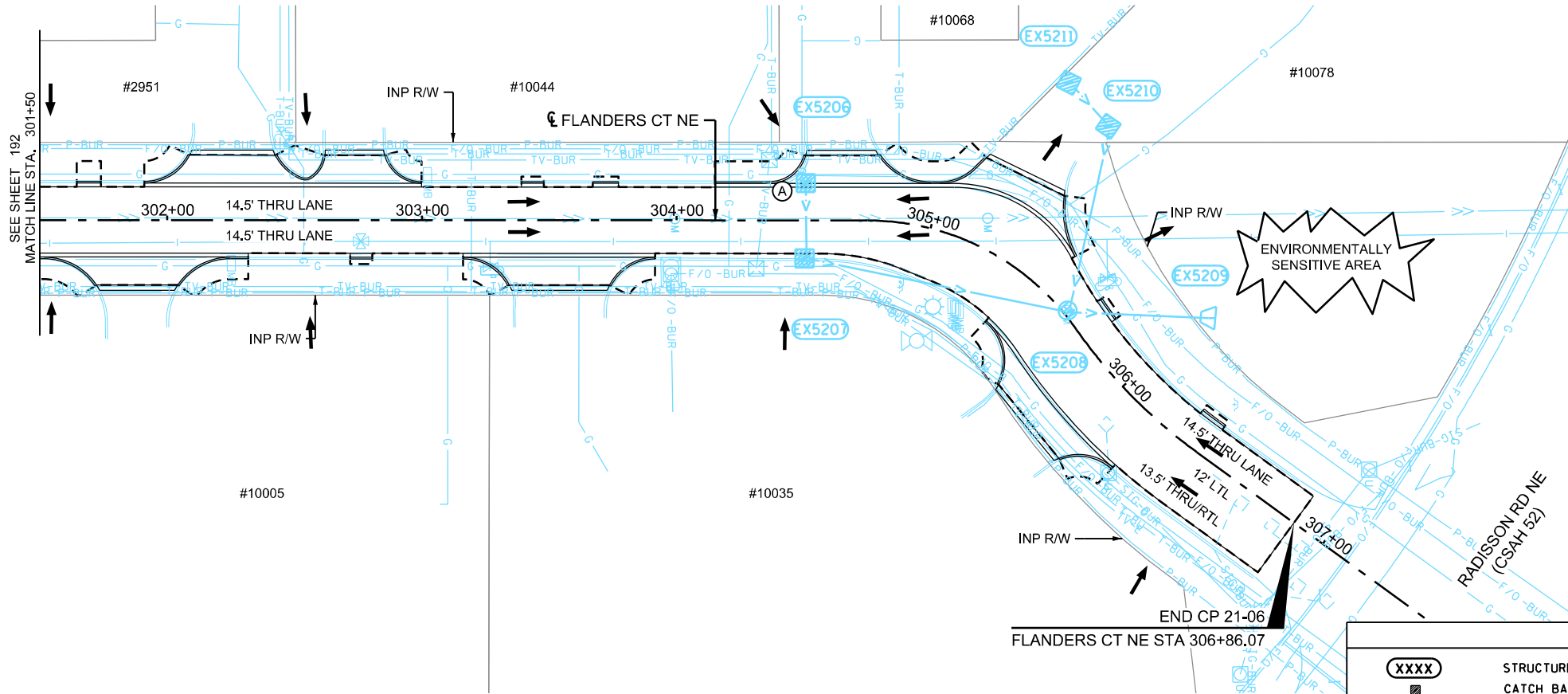
William C. Alms, PE
 WILLIAM C. ALMS, PE
 DATE: 3/29/2021 LIC. NO.: 54301

CITY OF BLAINE, MN
 2021 STREET RECONSTRUCTIONS
 SAP 106-125-008
 SAP 106-130-008

DRAINAGE PLANS & PROFILES

CITY PROJECT 21-06
 SHEET 186 OF 256 SHEETS

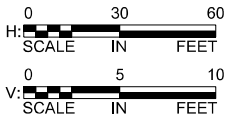
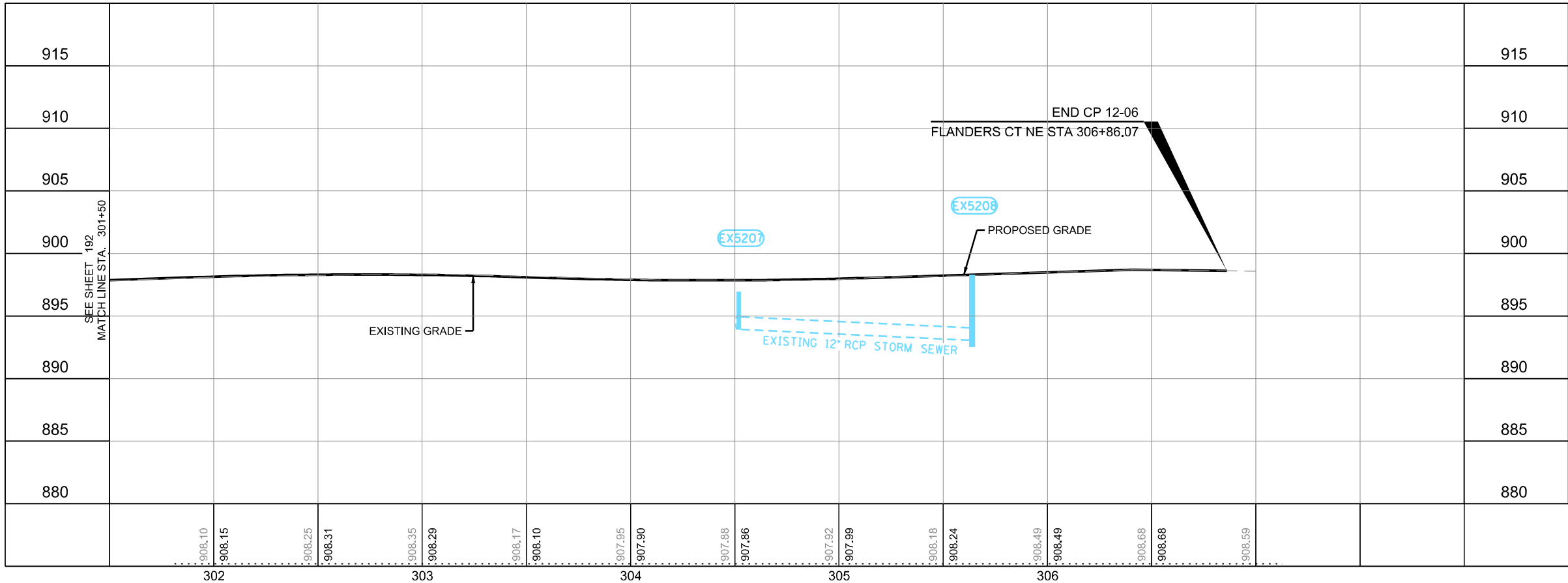
FLANDERS COURT NE



Ⓐ REPLACE WITH NEW NEENAH R-3067V CASTING

LEGEND		
XXXX	STRUCTURE NUMBER	→ SURFACE FLOW DIRECTION
⬢	CATCH BASIN	—> STORM SEWER PIPE
⊙	MANHOLE	-> INPLACE STORM SEWER
⬢	DROP INLET	- - - CONSTRUCTION LIMITS
⬢	APRON	

FLANDERS COURT NE PROFILE



wsb
WSB PROJECT NO.:
016987-000

SCALE: AS SHOWN
PLAN BY: FO
DESIGN BY: KF
CHECK BY: WCA

REVISIONS	
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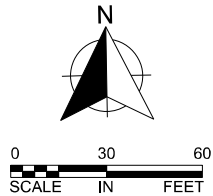
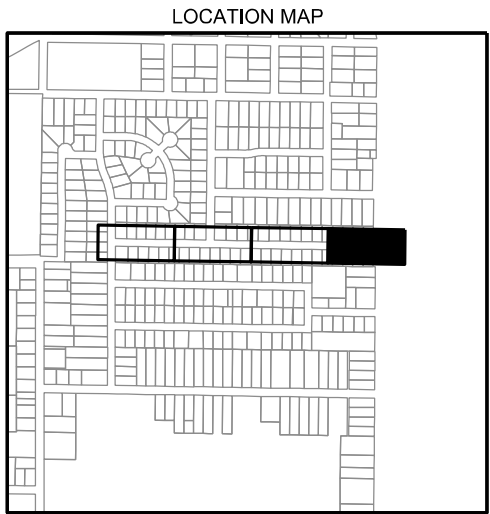
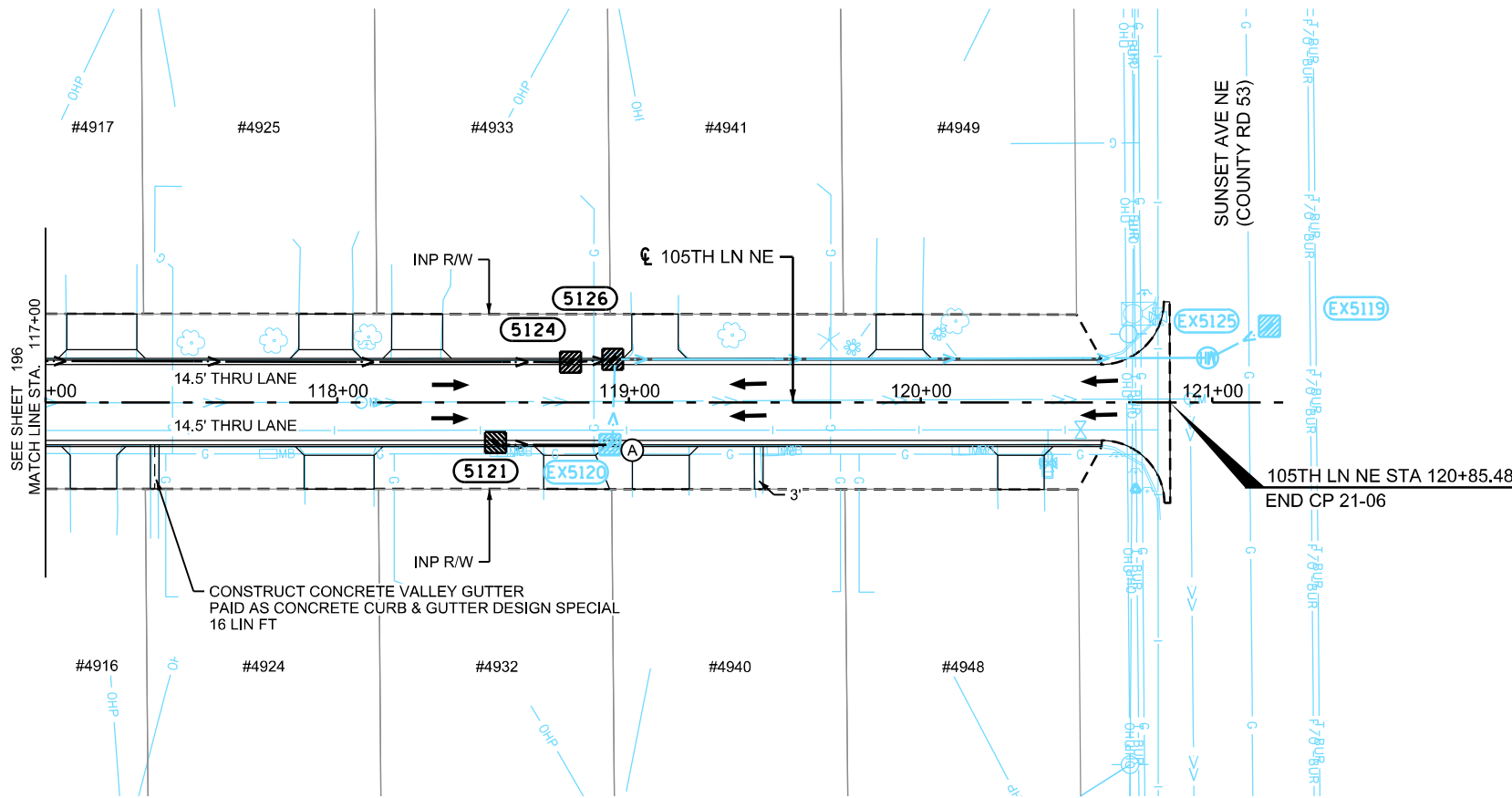
William C. Alms
WILLIAM C. ALMS, PE
DATE: 3/29/2021 LIC. NO.: 54301

CITY OF BLAINE, MN
2021 STREET
RECONSTRUCTIONS
SAP 106-125-008
SAP 106-130-008

DRAINAGE
PLANS &
PROFILES

CITY
PROJECT
21-06
SHEET
193
OF
256
SHEETS

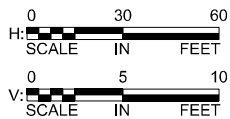
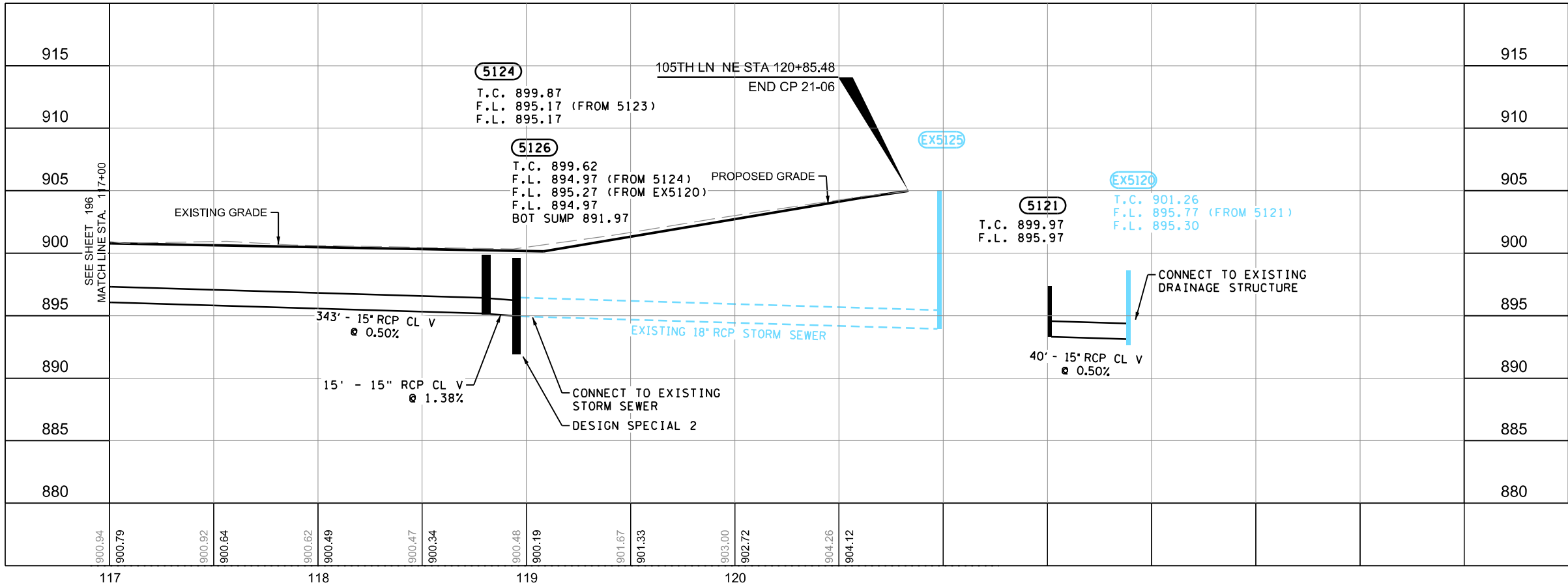
105TH LANE NE



(A) REPLACE WITH NEW NEENAH R-3067V CASTING

LEGEND		
XXXX	STRUCTURE NUMBER	→ SURFACE FLOW DIRECTION
■	CATCH BASIN	—> STORM SEWER PIPE
●	MANHOLE	-> INPLACE STORM SEWER
⊠	DROP INLET	- - - CONSTRUCTION LIMITS
D	APRON	

105TH LANE NE PROFILE



wsb

WSB PROJECT NO.:
016987-000

SCALE: AS SHOWN
PLAN BY: FO
DESIGN BY: KF
CHECK BY: WCA

REVISIONS

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William C. Alms
WILLIAM C. ALMS, PE
DATE: 3/29/2021 LIC. NO.: 54301

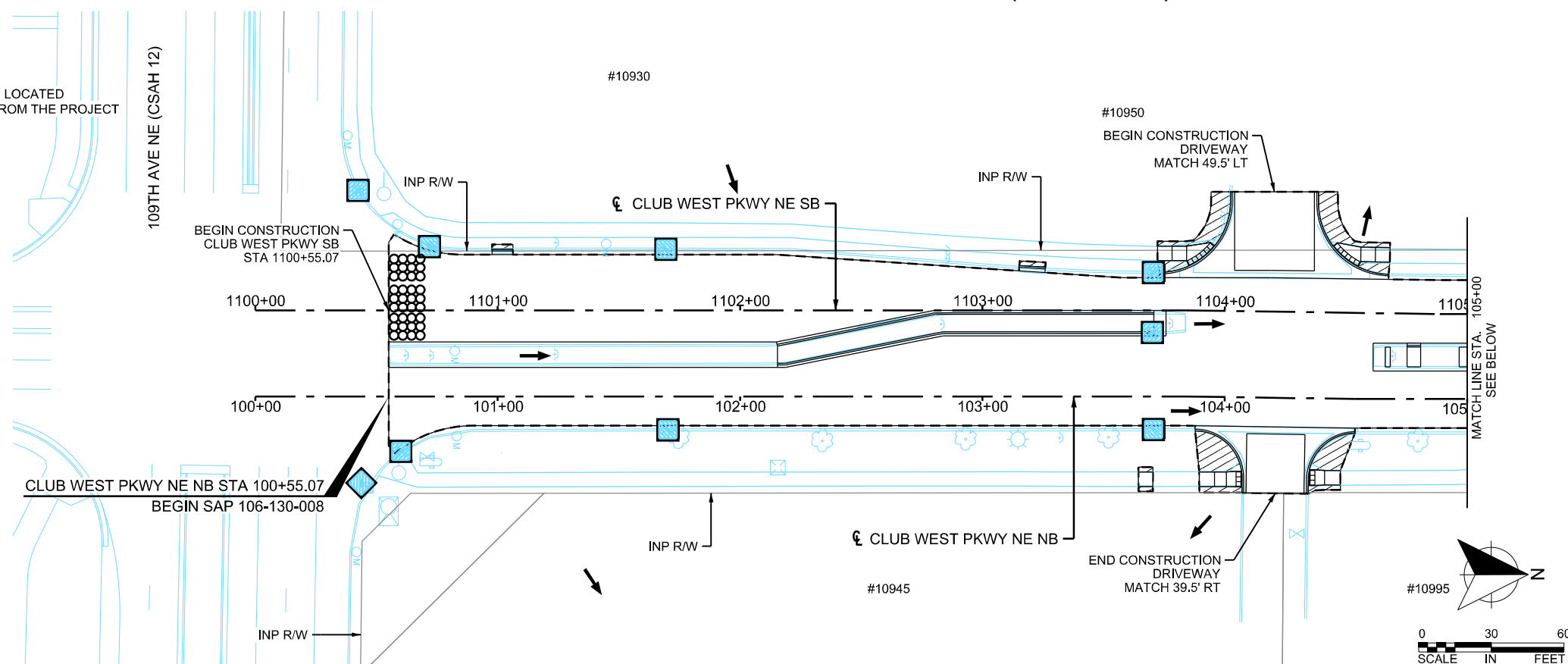
CITY OF BLAINE, MN
2021 STREET
RECONSTRUCTIONS
SAP 106-125-008
SAP 106-130-008

DRAINAGE
PLANS &
PROFILES

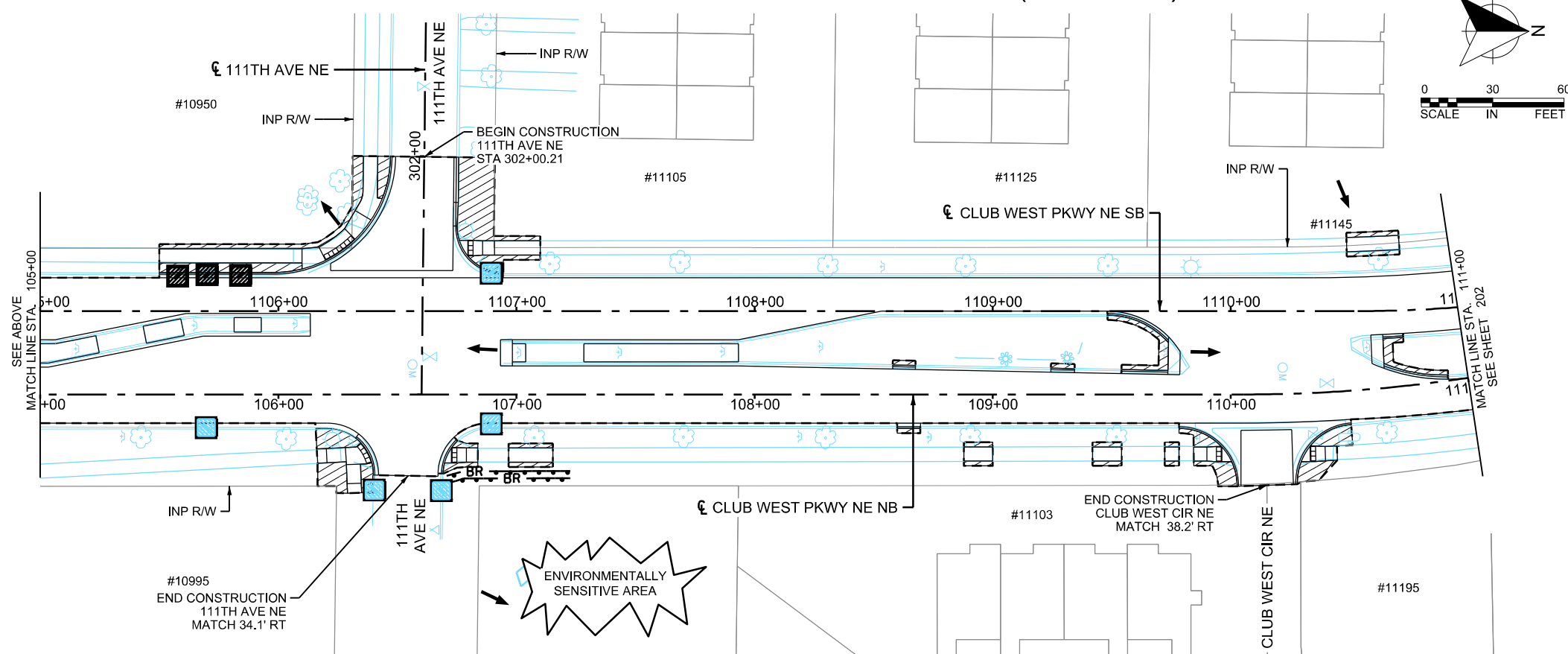
CITY
PROJECT
21-06

SHEET
197
OF
256
SHEETS

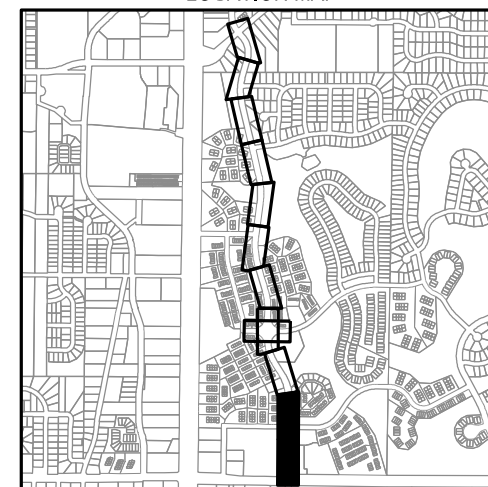
CLUB WEST PKWY NE (MSAS 130)



CLUB WEST PKWY NE (MSAS 130)



LOCATION MAP



wsb

WSB PROJECT NO.:
016987-000

SCALE: AS SHOWN
PLAN BY:
DESIGN BY: AJF
CHECK BY:

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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.

VICHOI AS E LHERITGES DE

DATE:	2/29/2024	LIC NO:	44620
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CITY OF BLAINE, MN

2021 STREET RECONSTRUCTIONS

SAP 106-125-008
SAP 106-130-008

**TURF
ESTABLISHMENT
&
EROSION
CONTROL**

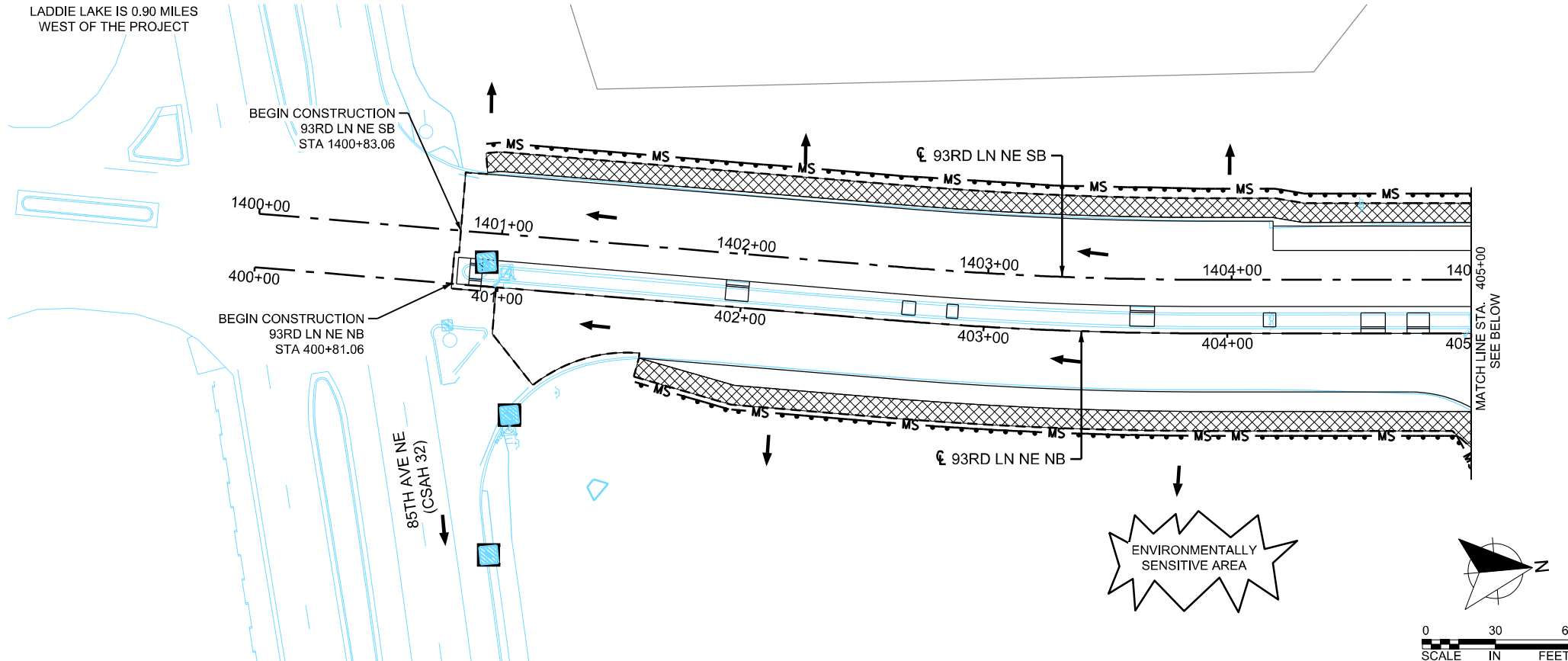
CITY
PROJECT
21-06

SHEET
201
OF
256
SHEETS

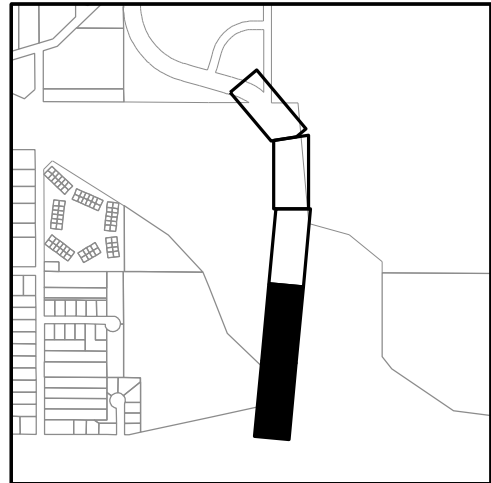
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93RD LANE NE (MSAS 125)



LOCATION MAP



wsb

WSB PROJECT NO.:
016987-000

SCALE: AS SHOWN
DESIGN BY: AJF
PLAN BY: AJF
CHECK BY: NEH

REVISIONS

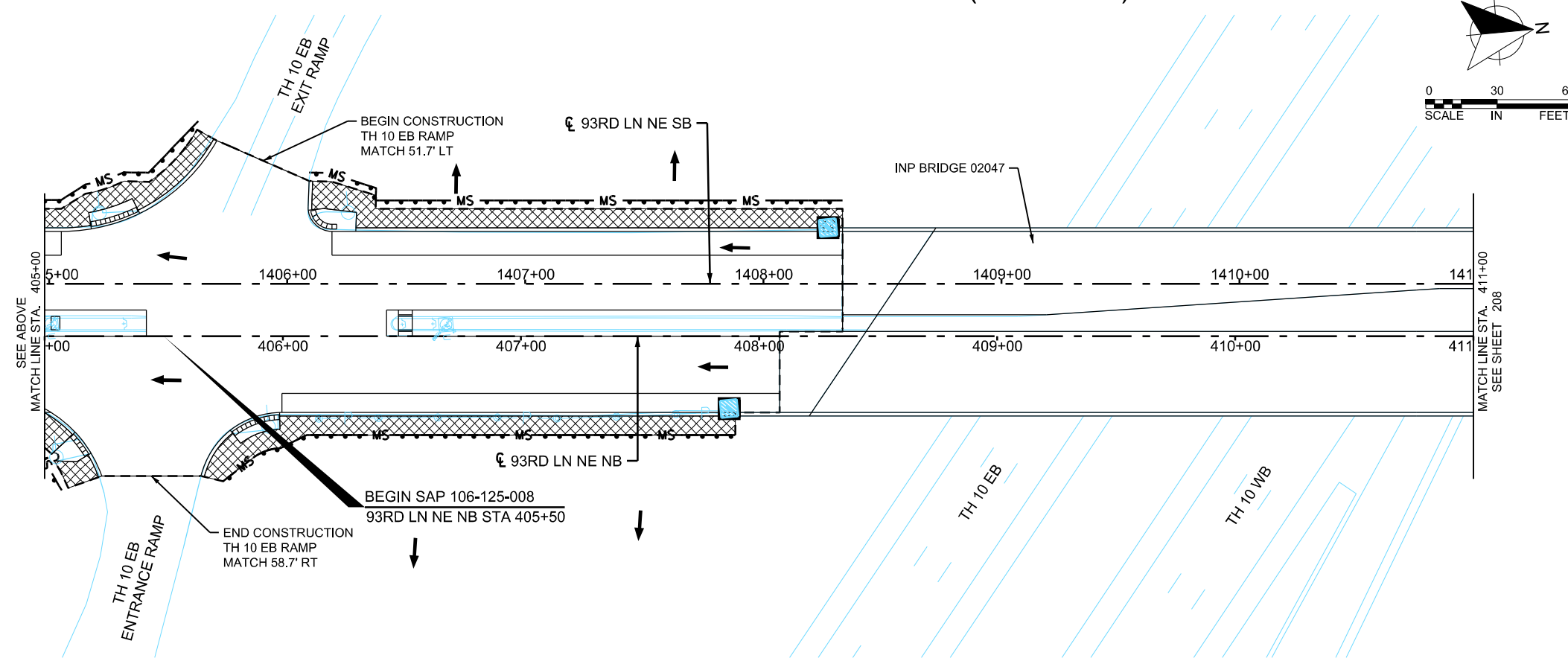
NO.	DATE	DESCRIPTION

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NICHOLAS E. HERTIGES, PE

DATE: 3/29/2021 LIC. NO.: 44620

93RD LANE NE (MSAS 125)



LEGEND

TEMPORARY:
HYDRAULIC MULCH MATRIX (3000 LBS/ACRE)

PERMANENT:
SODDING TYPE LAWN
FERTILIZER TYPE 3 (200 LBS/ACRE)

TEMPORARY:
HYDRAULIC MULCH MATRIX (3000 LBS/ACRE)

PERMANENT:
SEED MIXTURE 25-121 (61 LBS/ACRE)
FERTILIZER TYPE 3 (350 LBS/ACRE)
ROLLED EROSION PREVENTION CATEGORY 20

→ SURFACE FLOW DIRECTION

□ INLET PROTECTION

⊞ STABILIZED CONSTRUCTION EXIT

← MS → SILT FENCE TYPE MS

← BR → SEDIMENT CONTROL LOG TYPE STRAW

NOTES

1. SOILS SHALL RECEIVE TEMPORARY OR PERMANENT STABILIZATION MEASURES IMMEDIATELY AND WITHIN 7 DAYS OF INACTIVITY.
2. THE CONTRACTOR SHALL AMEND THE SWPPP AND THE EROSION CONTROL PLAN SHEETS TO SHOW LOCATIONS INCLUDING BUT NOT LIMITED TO: STAGING AND MATERIAL STORAGE AREAS, STOCKPILE LOCATIONS, AND LOCATIONS OF POTENTIAL POLLUTANT GENERATING ACTIVITIES (IE: FUELING LOCATIONS, DESIGNATED CONCRETE WASHOUT AREAS, ETC.)

CITY OF BLAINE, MN

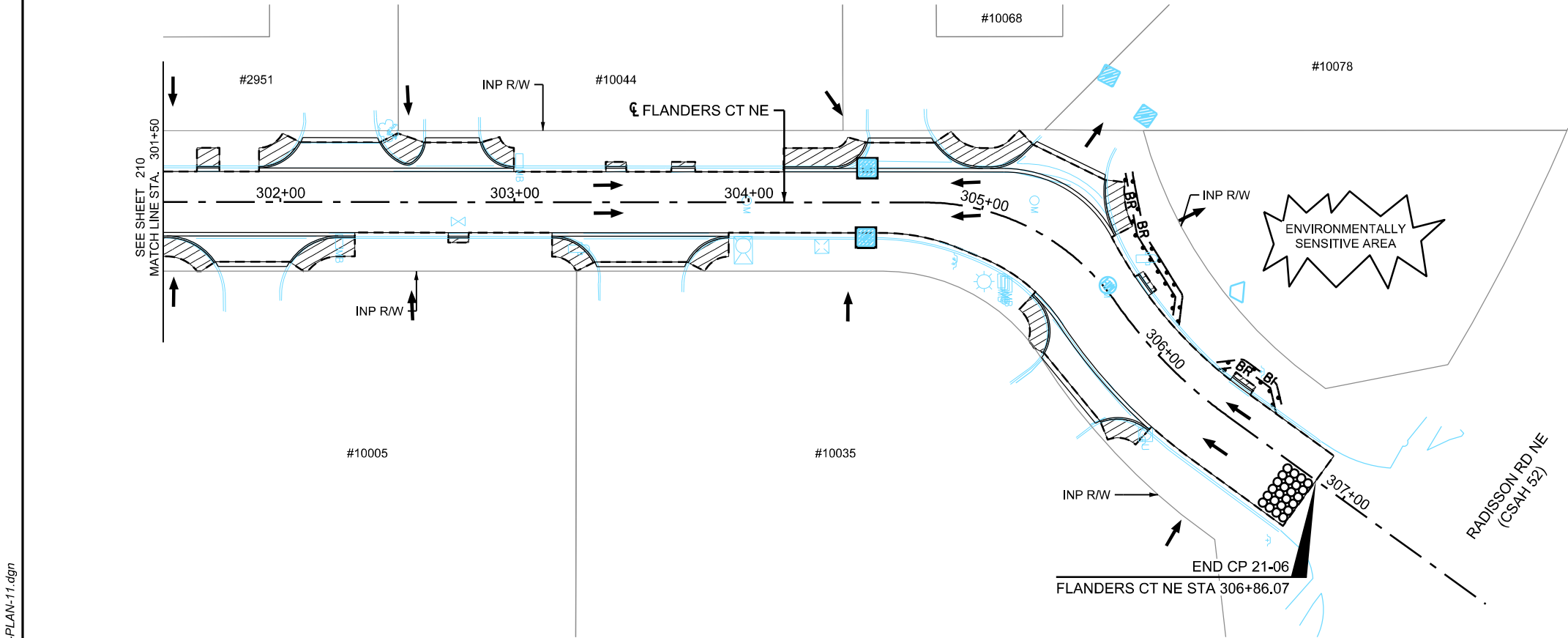
2021 STREET
RECONSTRUCTIONS

SAP 106-125-008
SAP 106-130-008

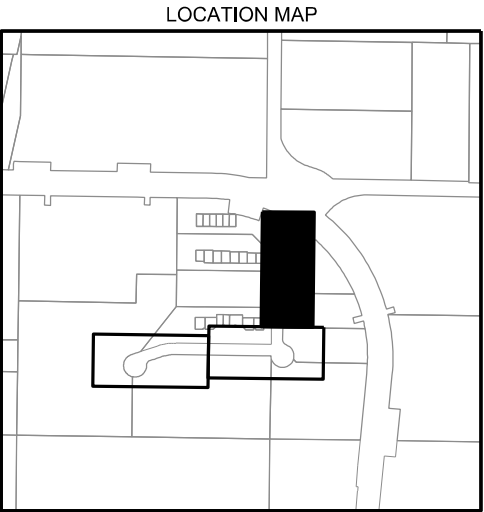
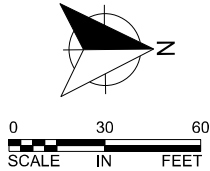
TURF
ESTABLISHMENT
&
EROSION
CONTROL

CITY
PROJECT
21-06

SHEET
207
OF
256
SHEETS



FLANDERS COURT NE



LEGEND

TEMPORARY:
HYDRAULIC MULCH MATRIX (3000 LBS/ACRE)

PERMANENT:
SODDING TYPE LAWN
FERTILIZER TYPE 3 (200 LBS/ACRE)

TEMPORARY:
HYDRAULIC MULCH MATRIX (3000 LBS/ACRE)

PERMANENT:
SEED MIXTURE 25-121 (61 LBS/ACRE)
FERTILIZER TYPE 3 (350 LBS/ACRE)
ROLLED EROSION PREVENTION CATEGORY 20

→ SURFACE FLOW DIRECTION

□ INLET PROTECTION

⊞ STABILIZED CONSTRUCTION EXIT

→ MS → SILT FENCE TYPE MS

→ BR → SEDIMENT CONTROL LOG TYPE STRAW

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WSB PROJECT NO.:
016987-000

SCALE: AS SHOWN
DESIGN BY: AJF
PLAN BY: AJF
CHECK BY: NEH

REVISIONS	
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NICHOLAS E. HERTGES, PE
DATE: 3/29/2021 LIC. NO.: 44620

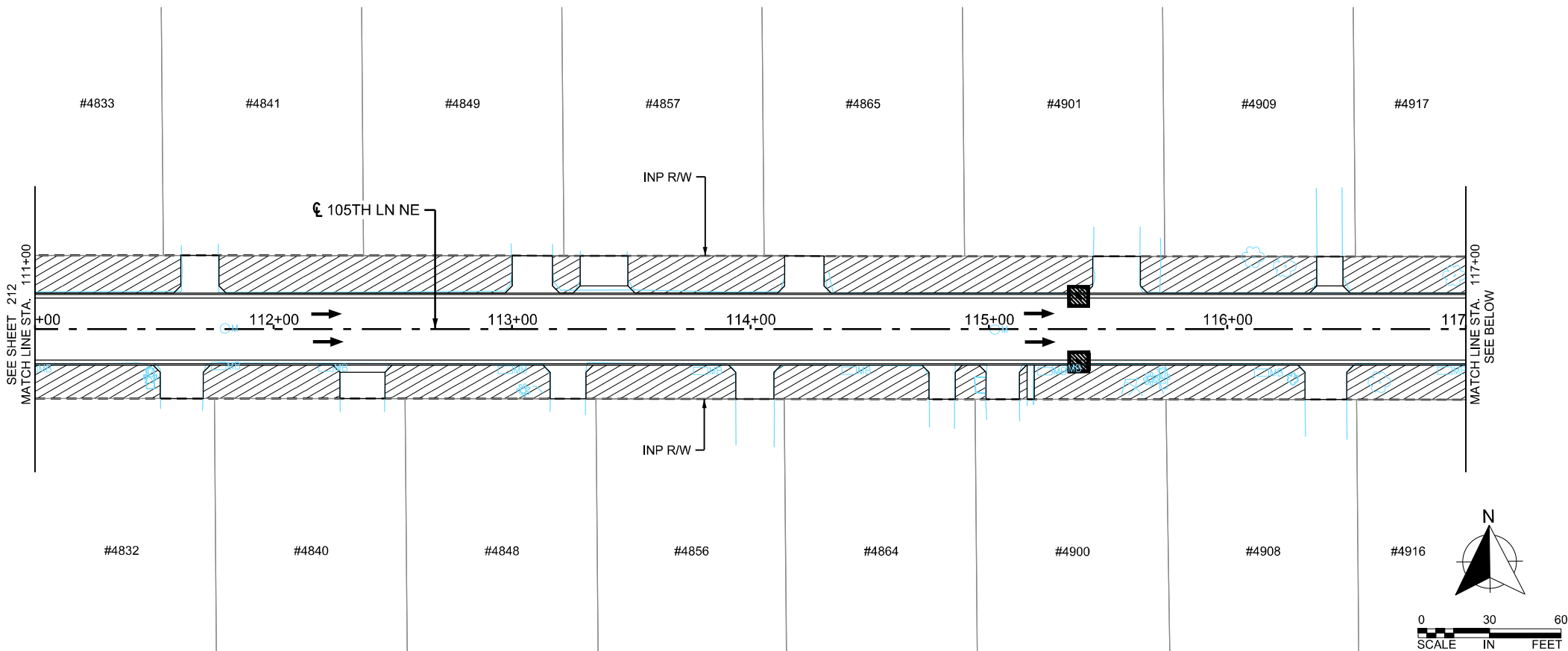
CITY OF BLAINE, MN
2021 STREET
RECONSTRUCTIONS
SAP 106-125-008
SAP 106-130-008

EROSION
CONTROL
PLANS

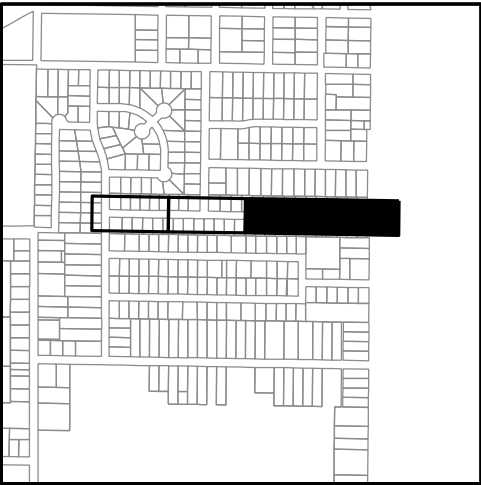
CITY
PROJECT
21-06

SHEET
211
OF
256
SHEETS

105TH LANE NE



LOCATION MAP



wsb

WSB PROJECT NO.:
016987-000

SCALE: AS SHOWN
 DESIGN BY: AJF
 PLAN BY: AJF
 CHECK BY: NEH

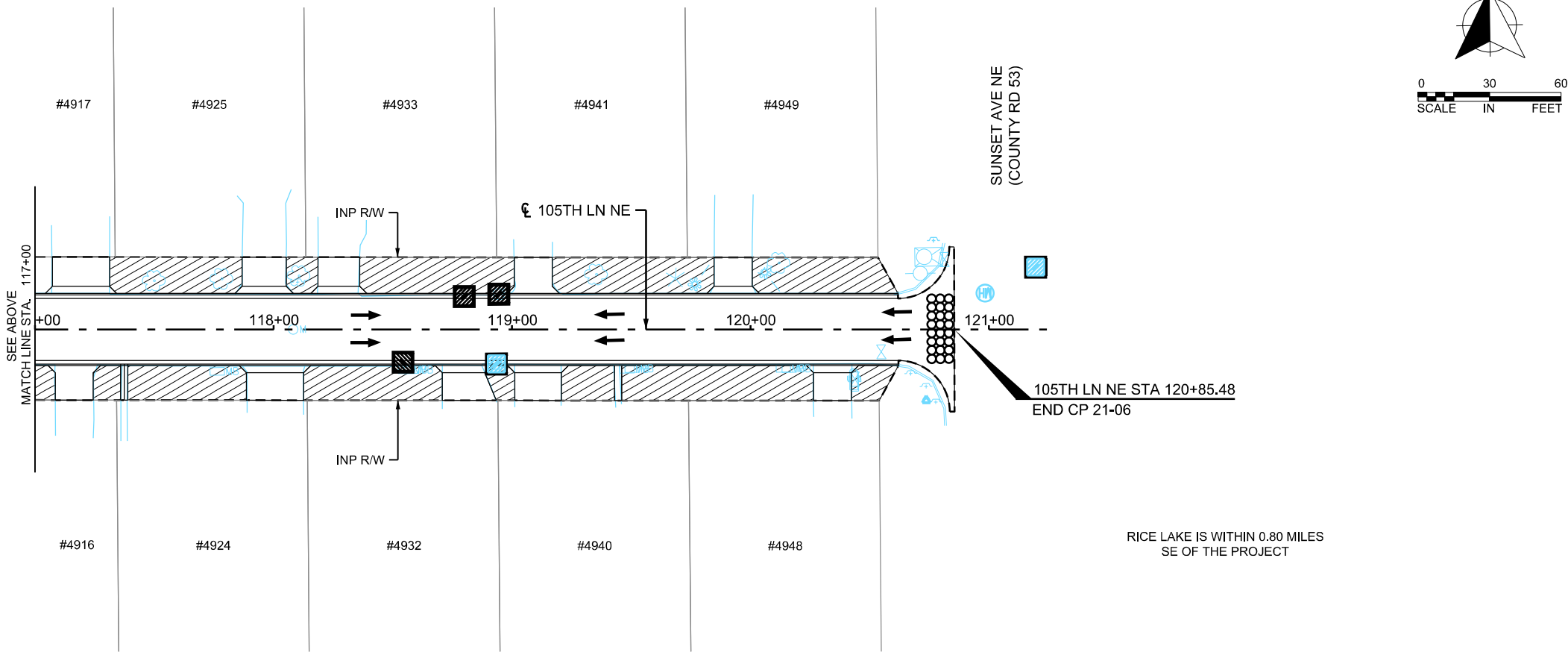
REVISIONS

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NICHOLAS E. HERTIGES, PE
 DATE: 3/29/2021 LIC. NO.: 44620

105TH LANE NE



LEGEND

TEMPORARY:
HYDRAULIC MULCH MATRIX (3000 LBS/ACRE)

PERMANENT:
SODDING TYPE LAWN
FERTILIZER TYPE 3 (200 LBS/ACRE)

TEMPORARY:
HYDRAULIC MULCH MATRIX (3000 LBS/ACRE)

PERMANENT:
SEED MIXTURE 25-121 (61 LBS/ACRE)
FERTILIZER TYPE 3 (350 LBS/ACRE)
ROLLED EROSION PREVENTION CATEGORY 20

SURFACE FLOW DIRECTION

INLET PROTECTION

STABILIZED CONSTRUCTION EXIT

MS SILT FENCE TYPE MS

BR SEDIMENT CONTROL LOG TYPE STRAW

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CITY OF BLAINE, MN

2021 STREET
RECONSTRUCTIONS

SAP 106-125-008
SAP 106-130-008

TURF
ESTABLISHMENT
&
EROSION
CONTROL

CITY
PROJECT
21-06

SHEET
213
OF
256
SHEETS