

PLANS PREPARED FOR

LUMEN[®]

LUMEN ENGINEER:
 EMAIL:
 PHONE:
 LUMEN CONSTRUCTION CONTACT:
 EMAIL:
 PHONE:
 WIRECENTER:

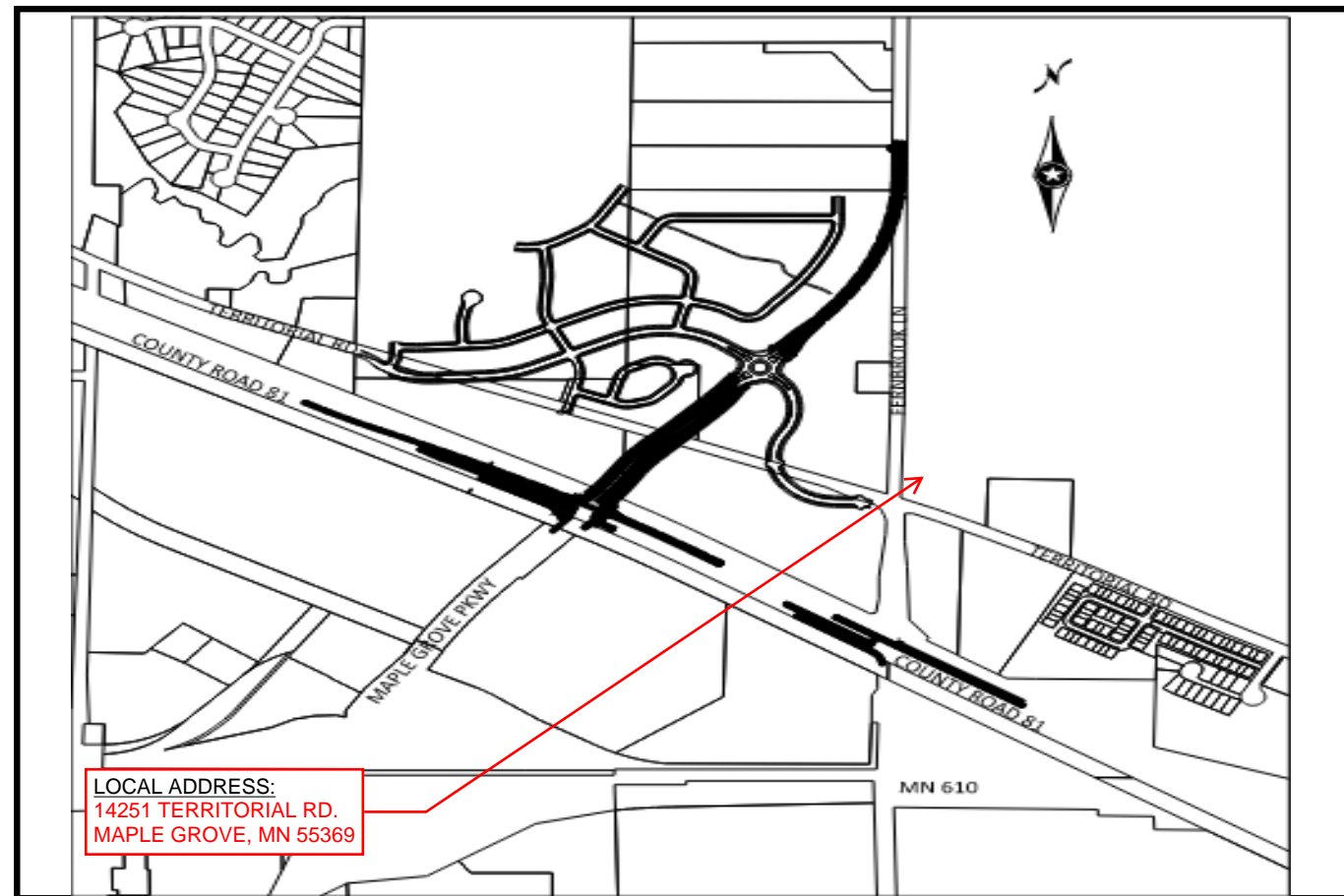
PLANS PREPARED BY



TT ENGINEER:
 PHONE:
 EMAIL:

PROJECT CONTACT

OWNER:
 PHONE:
 EMAIL:
 PROJECT ENGINEER:
 PHONE:
 EMAIL:
 SURVEY/STAKING:
 PHONE:
 EMAIL:
 ROAD CONTRACTOR:
 PHONE:
 EMAIL:



LOCATION MAP
 NOT TO SCALE

FOR REFERENCE ONLY

PERMITS REQUIRED: YES NO

CITY:
 COUNTY:
 STATE:
 RAILROAD:
 PIPELINE:
 DNR:
 MISCELLANEOUS:

CUTS REQUIRED: YES NO

FIBER OPTIC
 COPPER

MIGRATIONS REQUIRED: YES NO

PRECONSTRUCTION MEETING DATE:
 EXPECTED ROADWAY CONSTRUCTION START DATE:

NOTES:

ALL EXISTING AND PROPOSED CONDITIONS ARE BASED ON INFORMATION PROVIDED BY OTHERS. LUMEN CANNOT BE RESPONSIBLE FOR THE ACCURACY OF INFORMATION AND/OR PLANS PROVIDED BY OUTSIDE PARTIES. FACILITY LOCATIONS, DEPTHS AND ELEVATIONS SHOULD BE FIELD VERIFIED PRIOR TO CONSTRUCTION.

PROPOSED DESIGN MODIFICATIONS ARE RECOMMENDATIONS ONLY AND SHOULD BE VERIFIED PRIOR TO CONSTRUCTION.

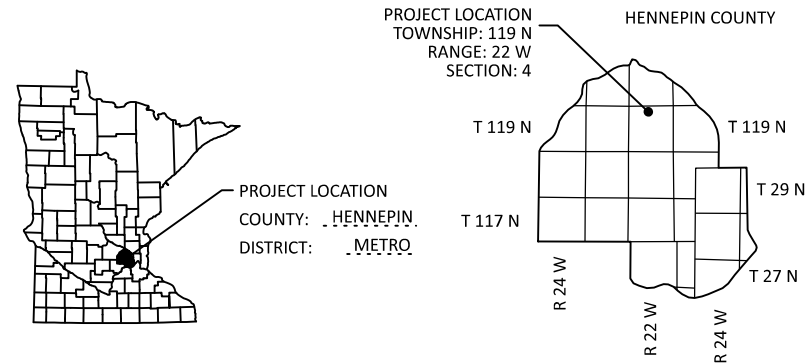
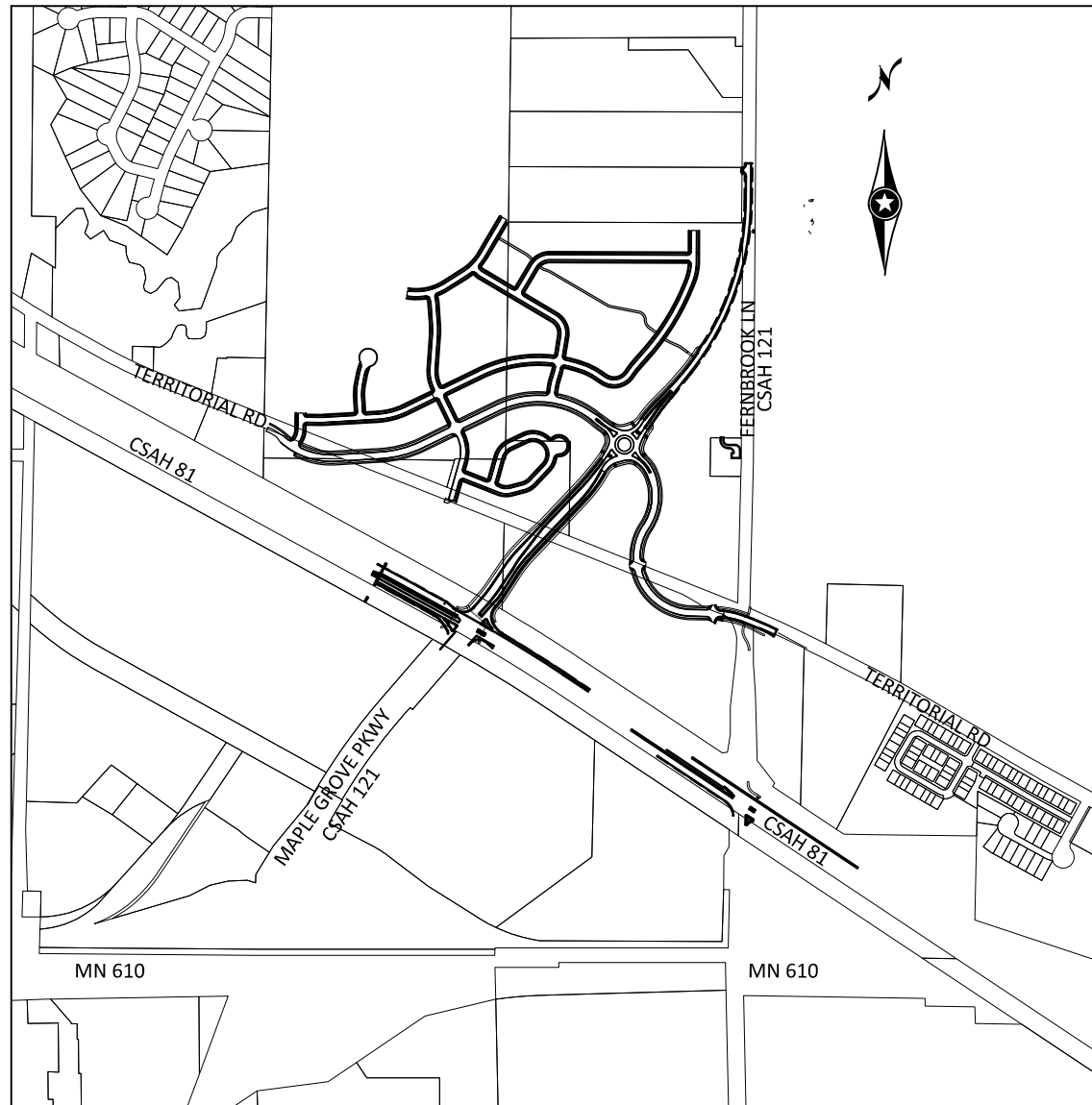
REVISION	DATE



CITY OF MAPLE GROVE HENNEPIN COUNTY

CONSTRUCTION PLAN FOR GRADING, BITUMINOUS SURFACING, ADA IMPROVEMENTS, SIGNAL SYSTEM, REVISED SIGNAL SYSTEM AND LIGHTING

LOCATED ON MAPLE GROVE PKWY FROM CSAH 81 TO 2500 FT NORTH OF TERRITORIAL RD
 LOCATED ON CSAH 81 FROM 1500 FT WEST OF MAPLE GROVE PKWY TO 750 FT EAST OF FERNBROOK LANE

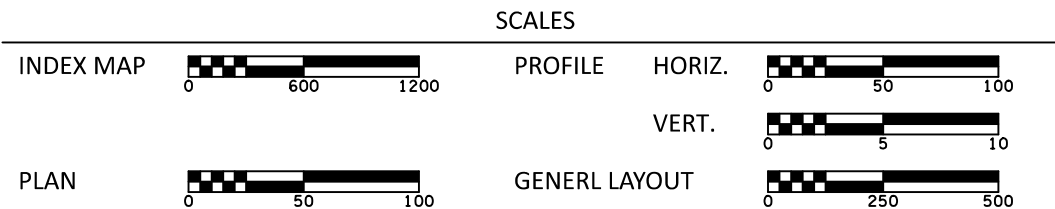


DESIGN DESIGNATION	MAPLE GROVE PARKWAY (NORTH OF TERRITORIAL)	MAPLE GROVE PARKWAY (SOUTH OF TERRITORIAL)	CSAH 81
GROSS LENGTH	1618.57' = 0.307 MILES	1283.79' = 0.243 MILES	4021.61' = 0.762 MILES
BRIDGES-LENGTH	NA	NA	NA
EXCEPTIONS-LENGTH	NA	NA	NA
NET LENGTH	1618.57' = 0.307 MILES	1283.79' = 0.243 MILES	4021.61' = 0.762 MILES

NOTE: LENGTH BASED ON NORTHBOUND AND EASTBOUND ALIGNMENTS.

R VALUE	12	12	15
ADT (Current Year) 2024	12,800	10,400	19,650
ADT (Future Year) 2044	14,800	12,400	22,770
D (DIRECTIONAL DISTR.)	50/50	50/50	50/50
HEAVY COMMERCIAL	4.35%	4.35%	10.39%
ESALS	2,324,000	2,324,000	7,138,000
DESIGN SPEED	55 MPH	40 MPH	55 MPH
BASED ON SIGHT DISTANCE	STOPPING	STOPPING	STOPPING
HEIGHT OF EYE/HEIGHT OF OBJECT	3.5'/2.0'	3.5'/2.0'	3.5'/2.0'
FUNCTIONAL CLASS	MINOR ARTERIAL	MINOR ARTERIAL	MINOR ARTERIAL
NO. OF TRAFFIC LANES	2	2	4
NO. OF PARKING LANES	NA	NA	NA
SHOULDER WIDTH	8' (2' PAVED)	8'	8' (6' PAVED)
TON DESIGN	10	10	10
DESIGN SPEED NOT ACHIEVED AT	ROUNDBABOUTS	ROUNDBABOUTS	

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



TRAIL DESIGN DESIGNATION:
 DESIGN SPEED (MPH)20.....
 BASED ON 4.5 FT HEIGHT OF EYE
 0.0 FT HEIGHT OF OBJECT

PLAN REVISIONS		
DATE	SHEET NO.	APPROVED

GOVERNING SPECIFICATIONS

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 EDITION OF THE FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS.

INDEX

SHEET NO.	DESCRIPTION
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6	CONSTRUCTION NOTES & STANDARD PLATES
7	EARTHWORK TABULATION
8 - 10	TABULATIONS
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20	MISCELLANEOUS DETAILS
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154 - 164	SIGNING PLAN
165 - 193	TRAFFIC CONTROL SIGNAL SYSTEM
X1 - X49	CROSS SECTIONS

THIS PLAN CONTAINS 242 SHEETS.

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



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.

PRINTED NAME: DANIEL KIEFFER, PE
 LICENSE NO. 54260

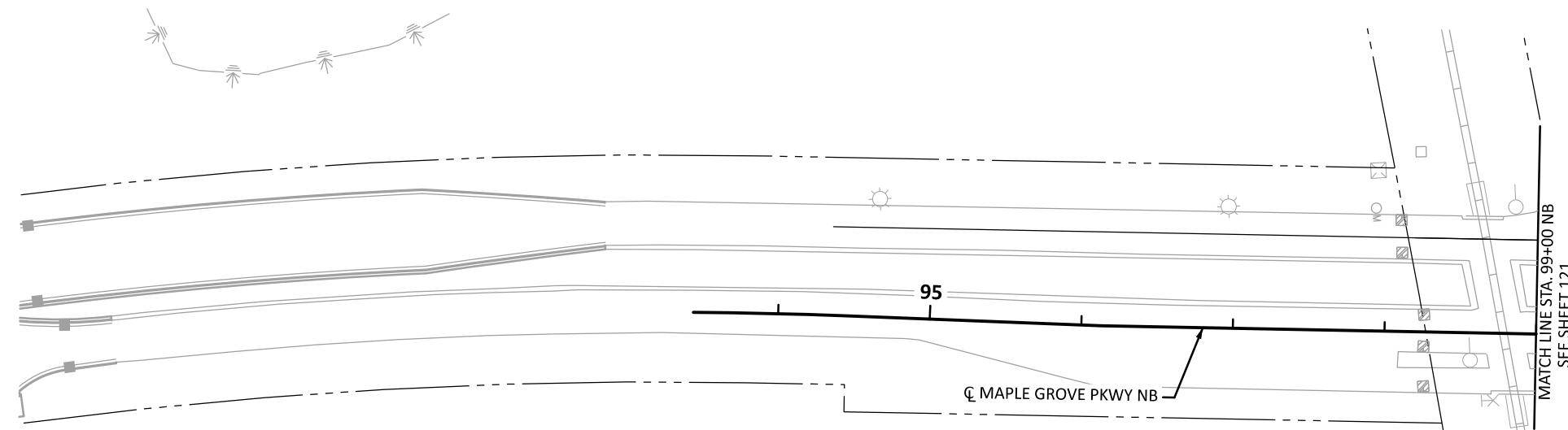
APPROVED: CITY ENGINEER
 CITY OF MAPLE GROVE

APPROVED: COUNTY ENGINEER
 HENNEPIN COUNTY

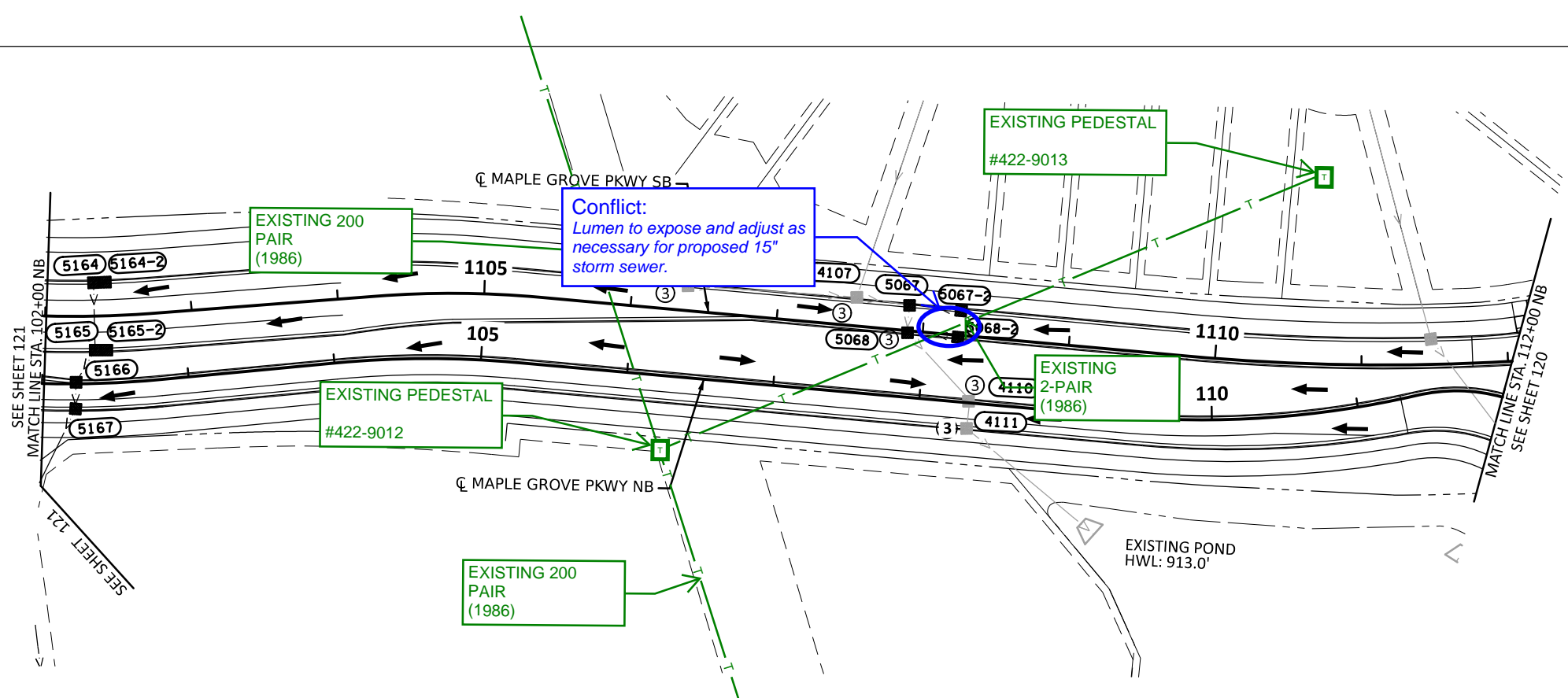
RECOMMENDED FOR APPROVAL
 HENNEPIN COUNTY
 DESIGN DEVISION ENGINEER

**DRAFT 99% PLAN
 PRELIMINARY
 NOT FOR CONSTRUCTION**

DATE: 12/20/2024 TIME: 3:19:01 PM
 FILENAME: Projects\Minnesota\021783-000\05_Discipline\Drainage\03_Sheets\021783-000-000drp-001



LEGEND	
	CATCH BASIN/DROP INLET
	MANHOLE
	APRON
	GUIDE POST TYPE B
	STRUCTURE NUMBER
	RANDOM RIPRAP CL III
	SURFACE FLOW DIRECTION
	CULVERT
	EXISTING STORM SEWER PIPE
	PROPOSED STORM SEWER PIPE
	PROPOSED DRAINTILE
	CONSTRUCTION LIMITS
	AREA OF ENVIRONMENTAL SENSITIVITY
	EXISTING ROW
	PROPOSED ROW
	TEMPORARY EASEMENT
	PERMANENT EASEMENT
	UTILITY EASEMENT
	SUPERELEVATION TRANSITION
	① CONNECT TO EXISTING STORM SEWER
	② CONNECT INTO EXISTING DRAINAGE STRUCTURE
	③ ADJUST FRAME AND RING CASTING



DRAWN BY: KL
 DESIGNED BY: KF
 CHECKED BY: EE

I HEREBY CERTIFY THAT THIS SHEET 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.

NOT FOR CONSTRUCTION

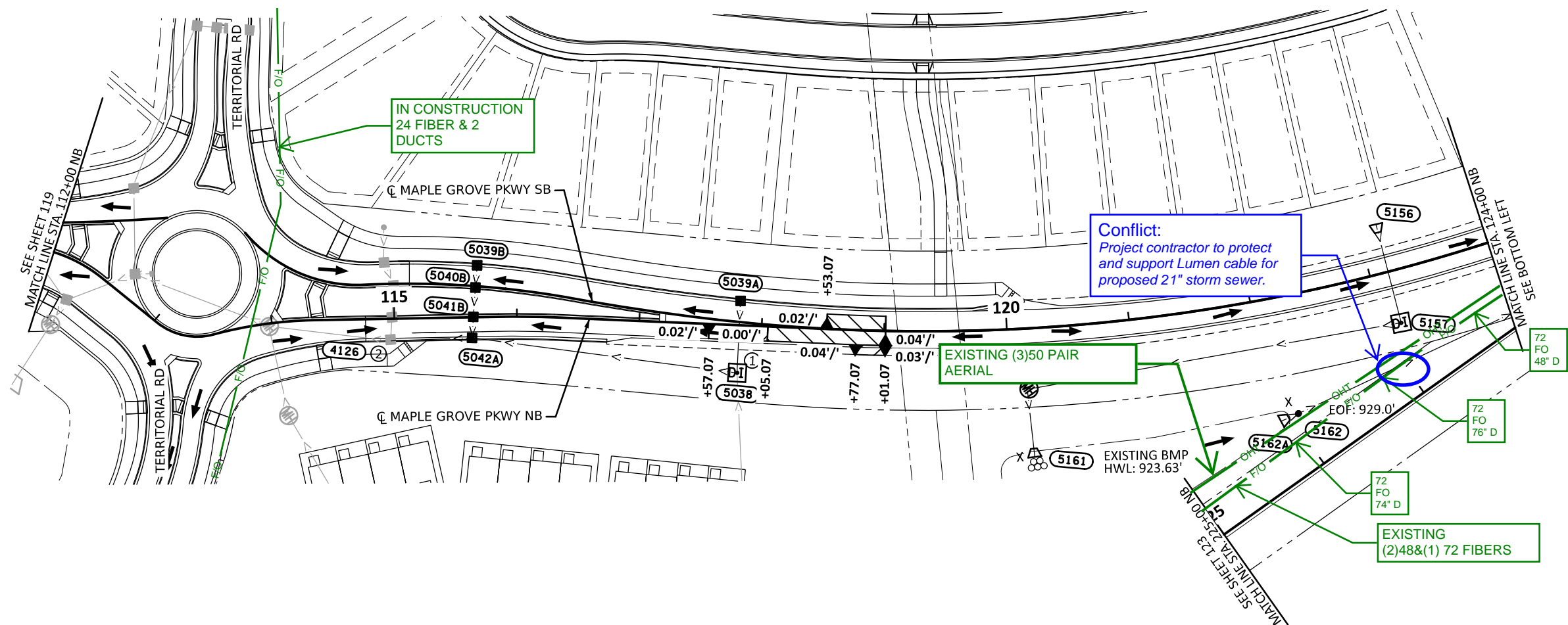
SIGNATURE: _____
 PRINTED NAME: EARTH EVANS
 DATE: 12/20/2024 LIC. NO. 44235



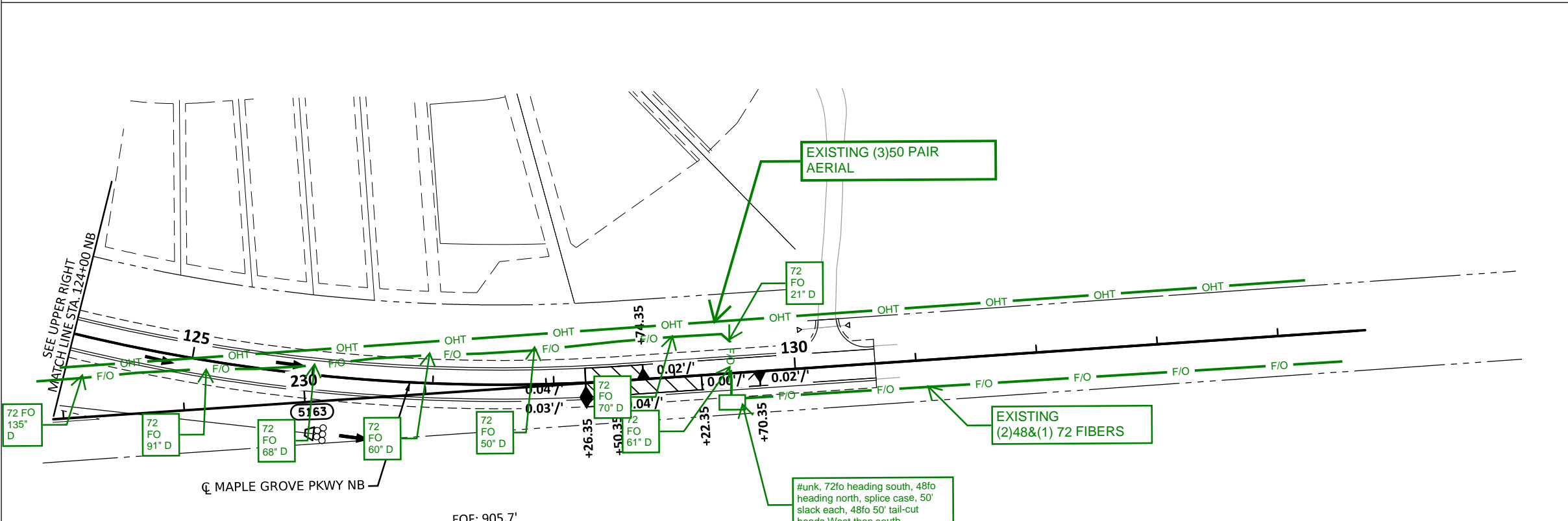
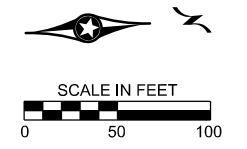
CITY OF MAPLE GROVE
 MAPLE GROVE PARKWAY AND CSAH 81 IMPROVEMENTS
 Maple Grove, Minnesota

DRAINAGE AND SUPERELEVATION PLAN

CP 2024-13
 Sheet No. 119 of 193 Sheets



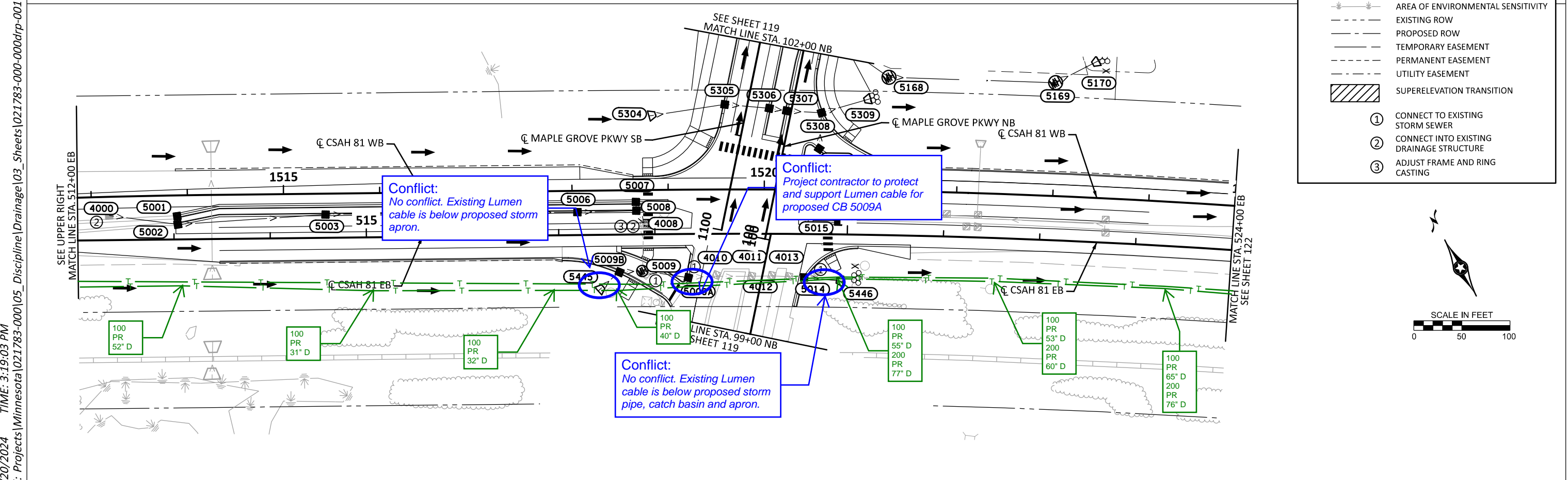
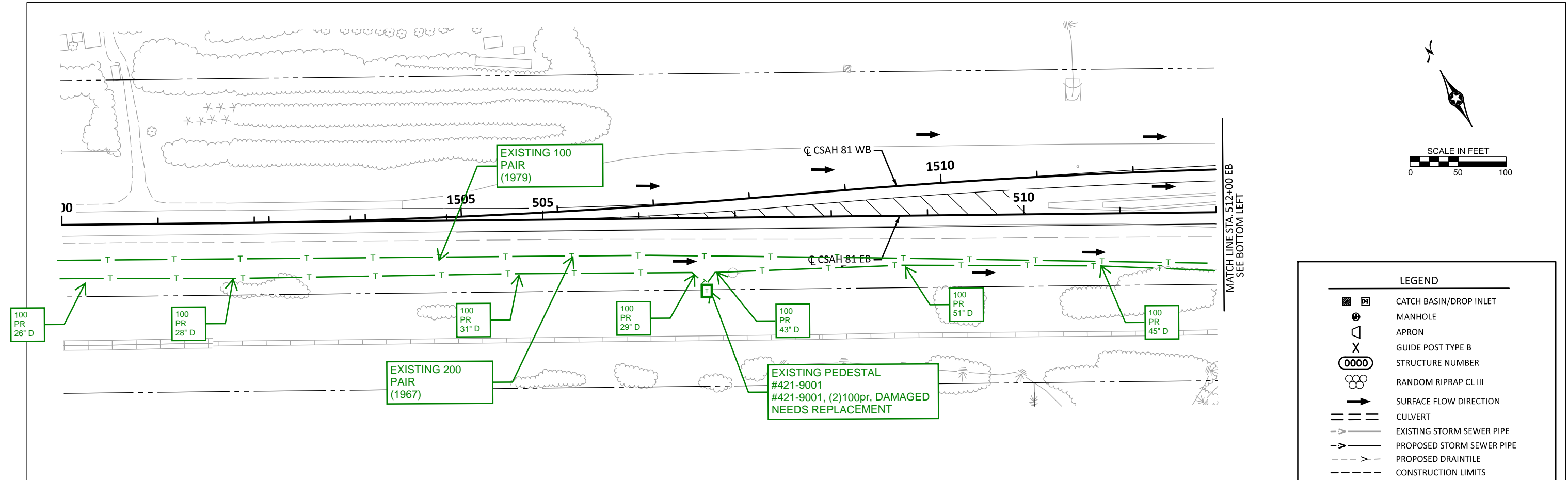
LEGEND	
	CATCH BASIN/DROP INLET
	MANHOLE
	APRON
	GUIDE POST TYPE B
	STRUCTURE NUMBER
	RANDOM RIPRAP CL III
	SURFACE FLOW DIRECTION
	CULVERT
	EXISTING STORM SEWER PIPE
	PROPOSED STORM SEWER PIPE
	PROPOSED DRAIN TILE
	CONSTRUCTION LIMITS
	AREA OF ENVIRONMENTAL SENSITIVITY
	EXISTING ROW
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	③ ADJUST FRAME AND RING CASTING



DATE: 12/20/2024 TIME: 3:19:02 PM
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DRAWN BY: KL DESIGNED BY: KF CHECKED BY: EE	I HEREBY CERTIFY THAT THIS SHEET 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.	SIGNATURE: PRINTED NAME: EARTH EVANS DATE: 12/20/2024 LIC. NO. 44235		CITY OF MAPLE GROVE MAPLE GROVE PARKWAY AND CSAH 81 IMPROVEMENTS Maple Grove, Minnesota	DRAINAGE AND SUPERELEVATION PLAN	CP 2024-13 Sheet No. 120 of 193 Sheets
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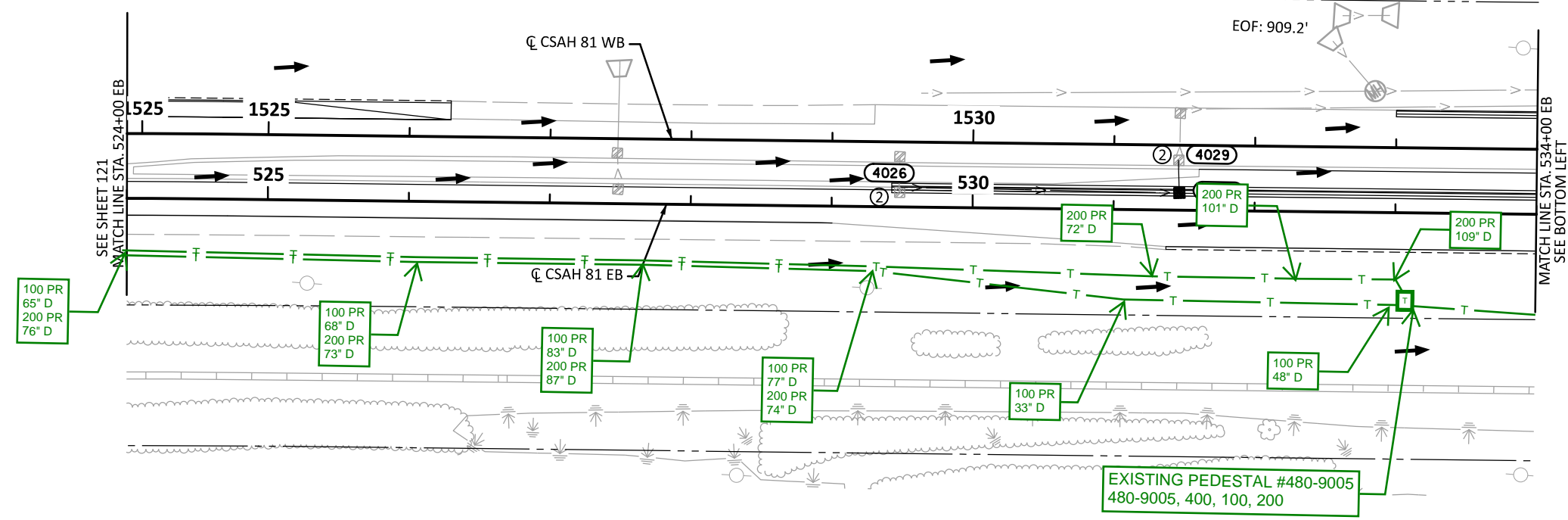
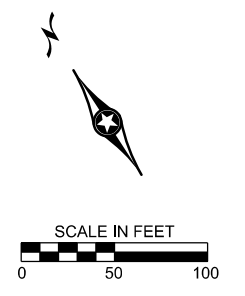
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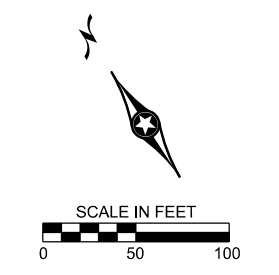
LEGEND

- CATCH BASIN/DROP INLET
- MANHOLE
- APRON
- GUIDE POST TYPE B
- STRUCTURE NUMBER
- RANDOM RIPRAP CL III
- SURFACE FLOW DIRECTION
- CULVERT
- EXISTING STORM SEWER PIPE
- PROPOSED STORM SEWER PIPE
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- PERMANENT EASEMENT
- UTILITY EASEMENT
- SUPERELEVATION TRANSITION

- ① CONNECT TO EXISTING STORM SEWER
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LEGEND	
	CATCH BASIN/DROP INLET
	MANHOLE
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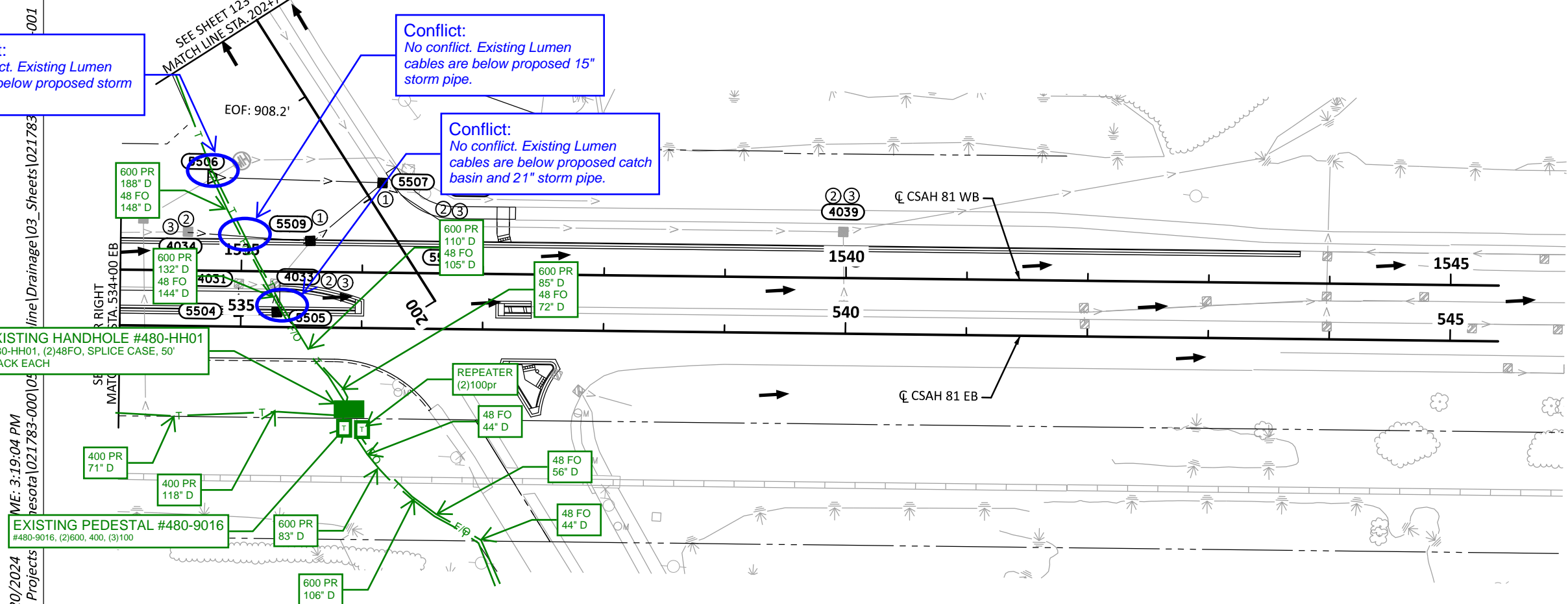
Conflict:
No conflict. Existing Lumen cable is below proposed storm apron.

Conflict:
No conflict. Existing Lumen cables are below proposed 15" storm pipe.

Conflict:
No conflict. Existing Lumen cables are below proposed catch basin and 21" storm pipe.

EXISTING HANDHOLE #480-HH01
#480-HH01, (2)48FO, SPLICE CASE, 50' SLACK EACH

EXISTING PEDESTAL #480-9016
#480-9016, (2)600, 400, (3)100



DATE: 12/20/2024
DRAWN BY: KL
DESIGNED BY: KF
CHECKED BY: EE

I HEREBY CERTIFY THAT THIS SHEET 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.

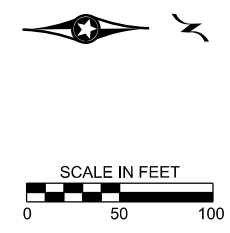
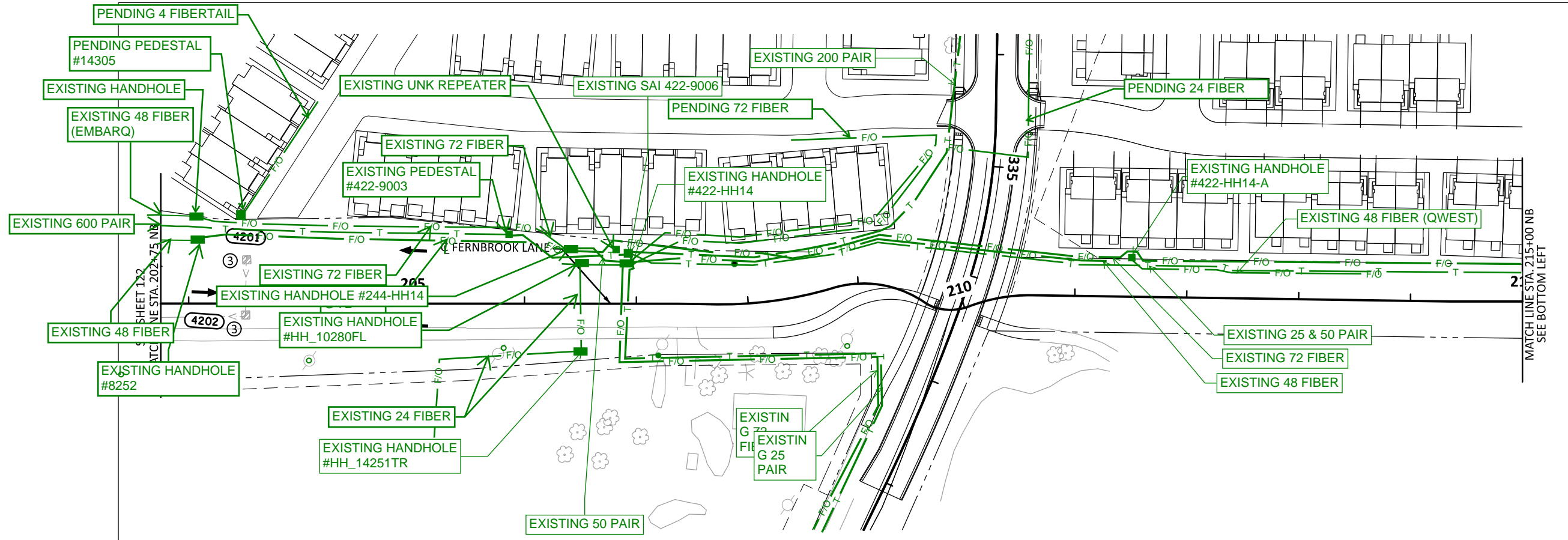
SIGNATURE: EARTH EVANS
PRINTED NAME: EARTH EVANS
DATE: 12/20/2024
LIC. NO.: 44235



CITY OF MAPLE GROVE
MAPLE GROVE PARKWAY AND CSAH 81 IMPROVEMENTS
Maple Grove, Minnesota

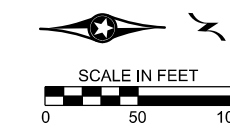
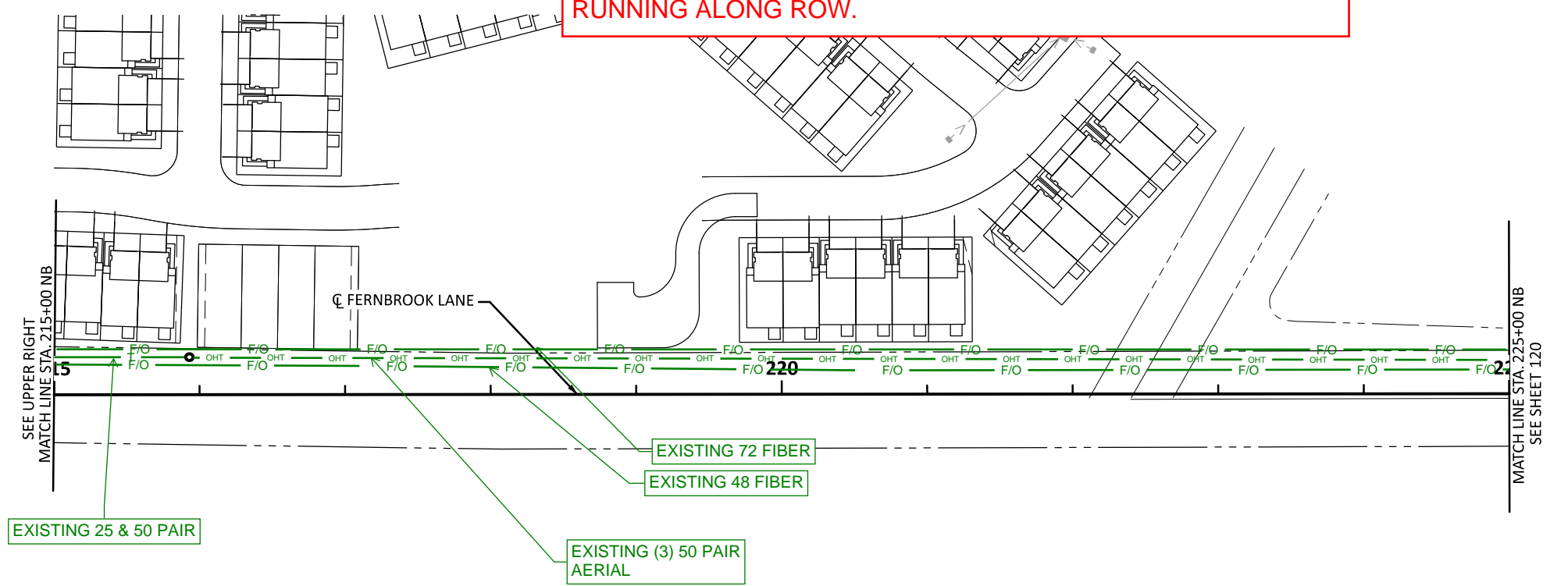
DRAINAGE AND SUPERELEVATION PLAN

CP 2024-13
Sheet No. 122 of 193 Sheets



LEGEND	
	CATCH BASIN/DROP INLET
	MANHOLE
	APRON
	GUIDE POST TYPE B
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	RANDOM RIPRAP CL III
	SURFACE FLOW DIRECTION
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	3 ADJUST FRAME AND RING CASTING

LUMEN TO COORDINATE WITH PROJECT AND CITY ON MINIMUM HEIGHT REQUIREMENT FOR AERIAL FACILITIES RUNNING ALONG ROW.



DATE: 12/20/2024 TIME: 3:19:04 PM FILENAME: Projects\Minnesota\021783-000\05_Discipline\Drainage\03_Sheets\021783-000-000drp-001