

EXISTING

- = CORPORATE LIMITS
- = CENTERLINE
-
- = UNDERGROUND TELEPHONE LINE
- = UNDERGROUND ELECTRIC LINE
- = UNDERGROUND ELECTRIC 3 PHASE
- = OVERHEAD ELECTRIC LINE
- = GAS MAIN
- = GASOLINE MAIN
-
- = UNDERGROUND CABLE TV
- = UNDERGROUND FIBER OPTIC LINE
- = TELEPHONE/CABLE TV PEDESTAL
- = CONTROL CABINET/TRANSFORMER
- = SIGN
-
- = R.O.W.
- = PROPERTY LINE
- = CONCRETE CURB & GUTTER
- = CATCH BASIN
- = STORM SEWER LINE
- = DRAINAGE MANHOLE

PROPOSED

- = CONCRETE CURB & GUTTER
- = CATCH BASIN
- = STORM SEWER LINE
- = DRAINAGE MANHOLE

2026 STREET RECONSTRUCTION
LEEMAN LAKE ESTATES (26-02E)

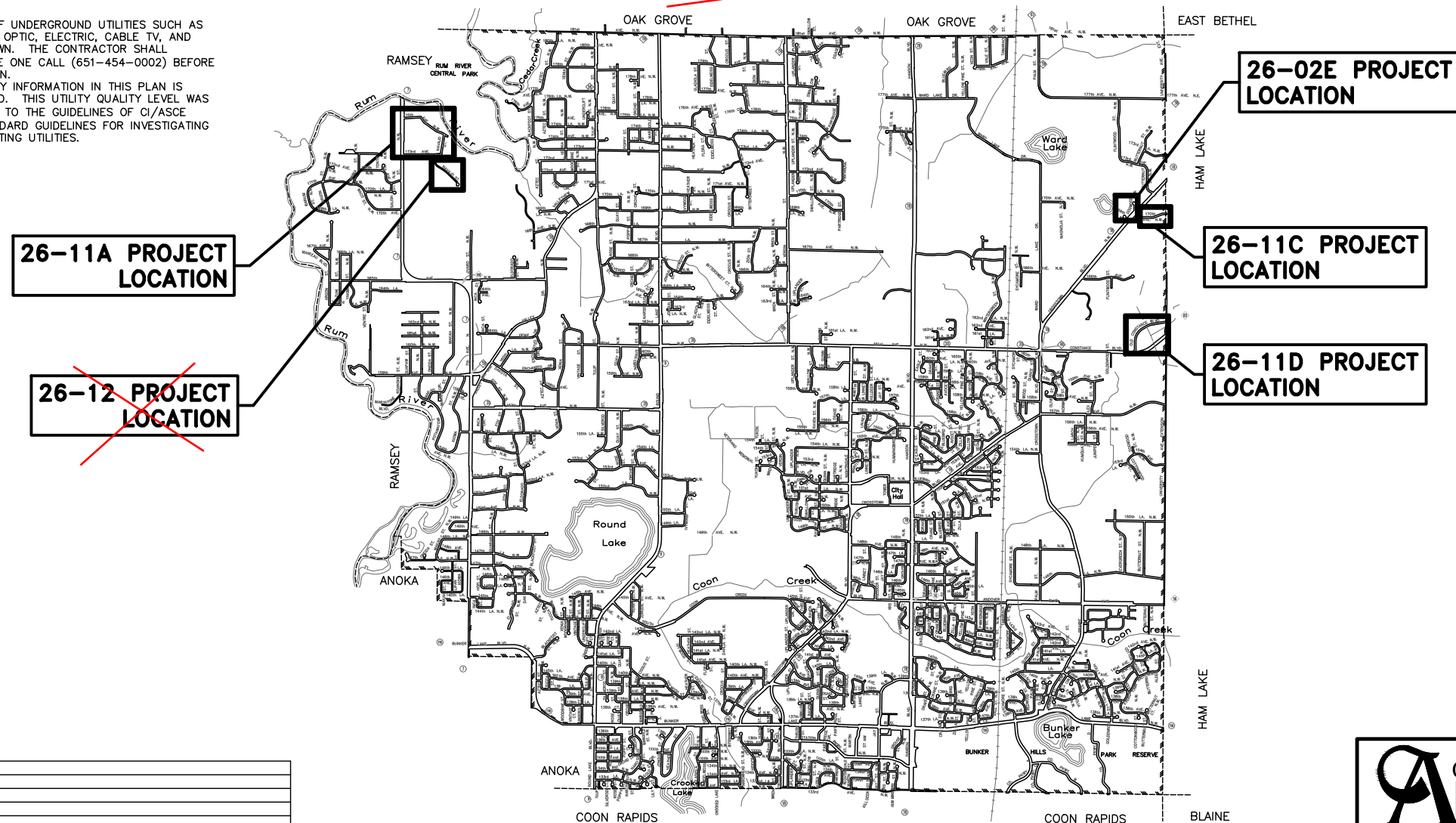
2026 FULL DEPTH RECLAMATION
173RD AVE NW/NAVAJO ST NW/ 175TH AVE NW (26-11A)
BIRCHWOOD POND (26-11C)
OLD CONSTANCE BLVD (26-11D)

~~2026 MILL & OVERLAY~~
~~GROW OAK VIEW ESTATES (26-12)~~

This project does not
abut any County Roads

NOTE:

1. THE EXACT LOCATION OF UNDERGROUND UTILITIES SUCH AS GAS, TELEPHONE, FIBER OPTIC, ELECTRIC, CABLE TV, AND PIPE LINES ARE UNKNOWN. THE CONTRACTOR SHALL CONTACT GOPHER STATE ONE CALL (651-454-0002) BEFORE COMMENCING EXCAVATION.
2. 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 38-22, ENTITLED "STANDARD GUIDELINES FOR INVESTIGATING AND DOCUMENTING EXISTING UTILITIES.



NO.	DATE	BY	DESCRIPTION OF REVISIONS

GOVERNING SPECIFICATIONS

THE 2025 EDITION OF THE MINNESOTA DEPARTMENT OF
TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION"
SHALL GOVERN.

CITY OF ANDOVER 2026 UTILITY AND STREET CONSTRUCTION
SPECIFICATIONS SHALL APPLY.

ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE LATEST MMUTCD, INCLUDING THE LATEST FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS.

INDEX

SHEET	DESCRIPTION
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1	TITLE SHEET & LEGEND
2	PROJECT LAYOUT (ALL PROJECTS)
3-4	DETAILS (ALL PROJECTS)

**26-02E 2026 STREET RECONSTRUCTION
LEEMAN LAKE ESTATES**

5	PROJECT LAYOUT
6	SEQ
7	EARTHWORK SUMMARY
8	CONSTRUCTION NOTES
9	TYPICAL SECTIONS
10	REMOVALS
11-12	PLAN/PROFILES
13	INTERSECTION DETAILS
14	STORM SEWER

26-11A 2026 FULL DEPTH RECLAMATION
173RD AVE NW/NAVAJO ST NW/ 175TH
AVE NW

15	PROJECT LAYOUT
16	SEQ
17	EARTHWORK SUMMARY
18	CONSTRUCTION NOTES
19	TYPICAL SECTIONS
20-21	REMOVALS
22-23	STREET & RESTORATION
24	CULVERT PLAN/PROFILES

**26-11C 2026 FULL DEPTH RECLAMATION
BIRCHWOOD POND**

25	PROJECT LAYOUT
26	SEQ
27	EARTHWORK SUMMARY
28	CONSTRUCTION NOTES
29	TYPICAL SECTIONS
30	REMOVALS
31	STREET & CULVERT PLAN/PROFILE

**26-11D 2026 FULL DEPTH RECLAMATION
OLD CONSTANCE BLVD**

32	PROJECT LAYOUT
33	SEQ
34	EARTHWORK SUMMARY
35	CONSTRUCTION NOTES
36	TYPICAL SECTIONS
37	REMOVALS
38-40	PLAN/PROFILES
41	STRIPING

**26-12 2026 MILL & OVERLAY
GROW OAK VIEW ESTATES**

42 PROJECT LAYOUT
43 SEQ
44 CONSTRUCTION NOTES
45 TYPICAL SECTIONS
46 STREET & STORM SEWER

THIS PLAN CONTAINS 46 SHEETS

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

ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA

David D. Berkowitz DAVID D. BERKOWITZ, PE
SIGNATURE TYPED OR PRINTED NAME

DATE 3/3/2026 LIC. NO. 26757

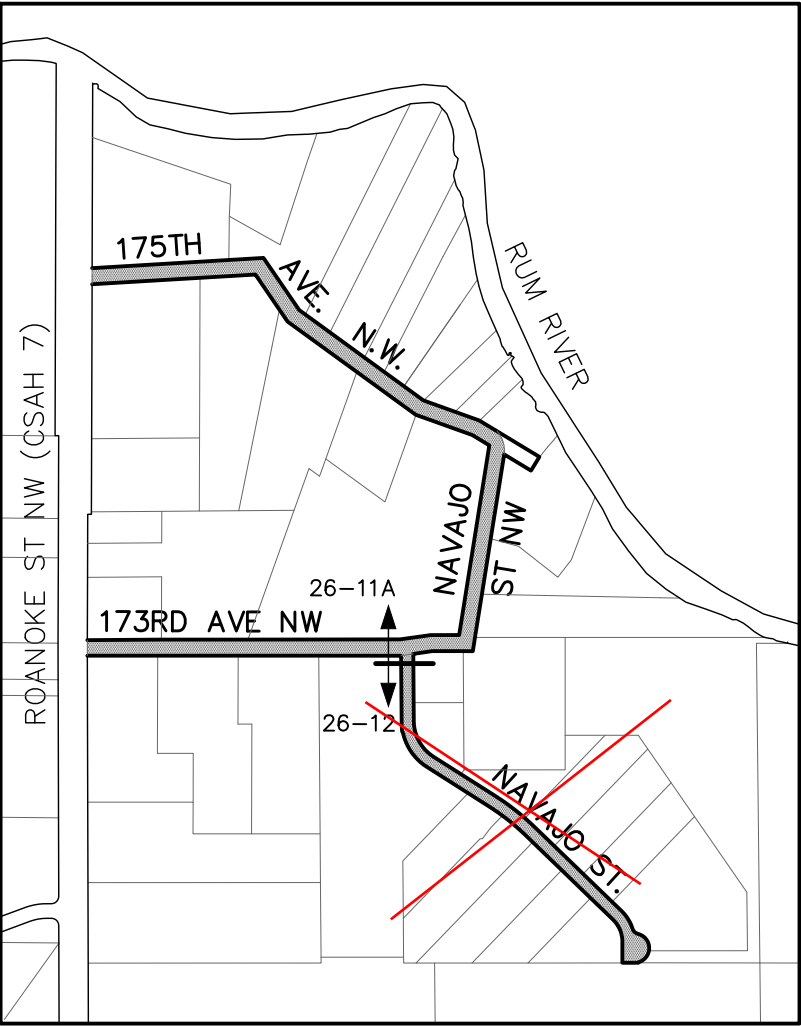
TITLE SHEET & LEGEND

SHEET NO. 1 OF 46 SHEETS



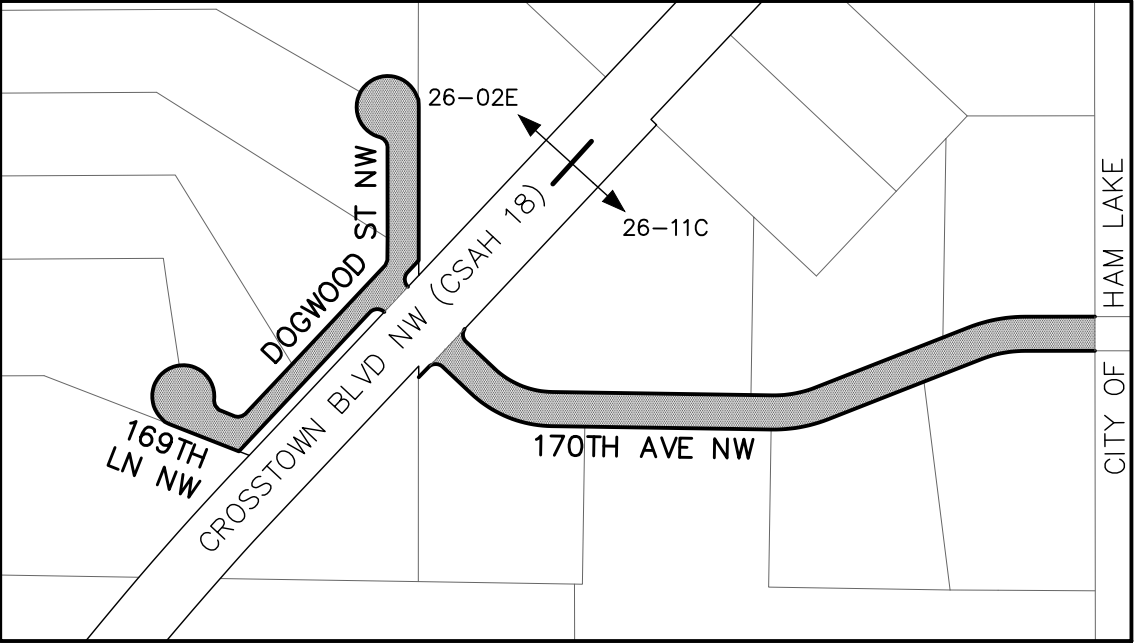
ANDOVER, MINNESOTA

2026 FULL DEPTH RECLAIM
173RD AVE NW/NAVAJO ST NW/175TH AVE NW
(C.P. 26-11A)
SEE SHEET 15-24

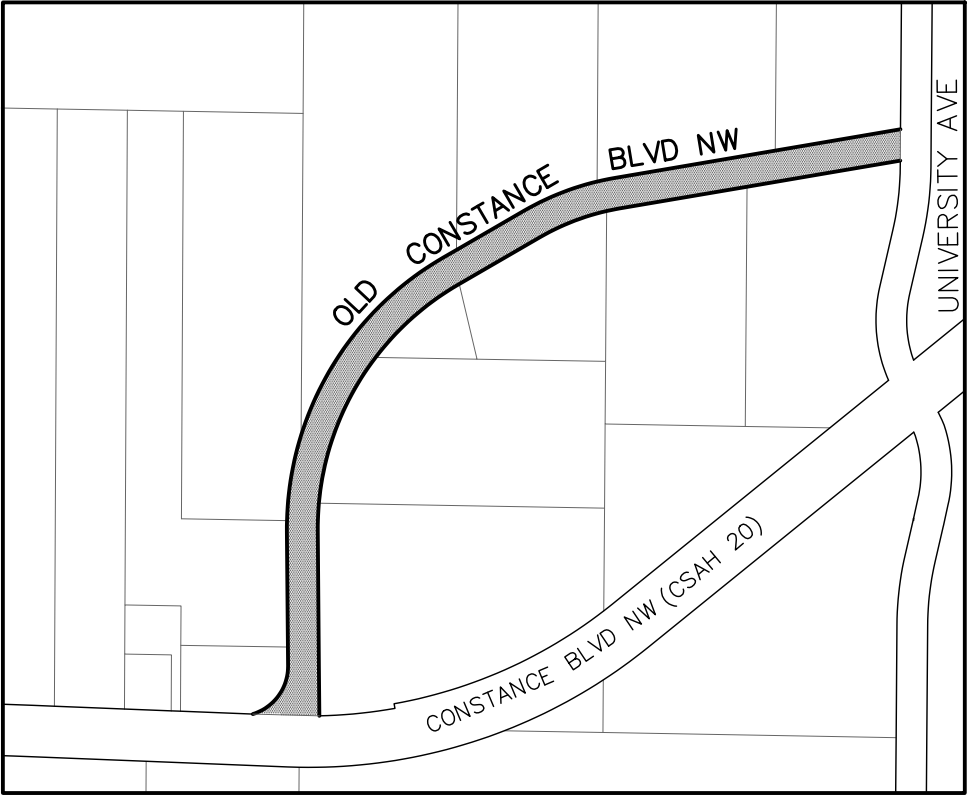


~~2026 MILL & OVERLAY
GROW OAK VIEW ESTATES
(C.P. 26-12)
SEE SHEET 42-46~~

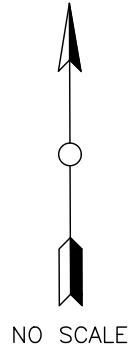
2026 STREET RECONSTRUCTION
LEEMAN LAKE ESTATES
(C.P. 26-02E)
SEE SHEET 5-14



2026 FULL DEPTH RECLAMATION
BIRCHWOOD POND
(C.P. 26-11C)
SEE SHEET 25-31



2026 FULL DEPTH RECLAMATION
OLD CONSTANCE BLVD NW
(C.P. 26-11D)
SEE SHEET 32-41



NO.	DATE	BY	DESCRIPTION OF REVISIONS

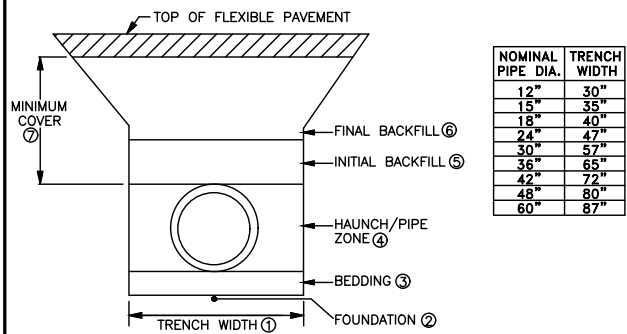
DESIGNED JJL	DRAWN JAK
CHECKED DDB	SIGNATURE <i>David D. Berkowitz</i> DATE 3/3/2026
	LIC. NO. 26757 TYPED OR PRINTED NAME DAVID D. BERKOWITZ



2026 STREET RECONSTRUCTION/FDR/MILL & OVERLAY CITY PROJECTS 26-02E/26-11A/26-11C/26-11D/26-12

PROJECT LAYOUT SHEET NO. 2 OF 46 SHEETS
--

HDPE STORM SEWER PIPE INSTALLATION

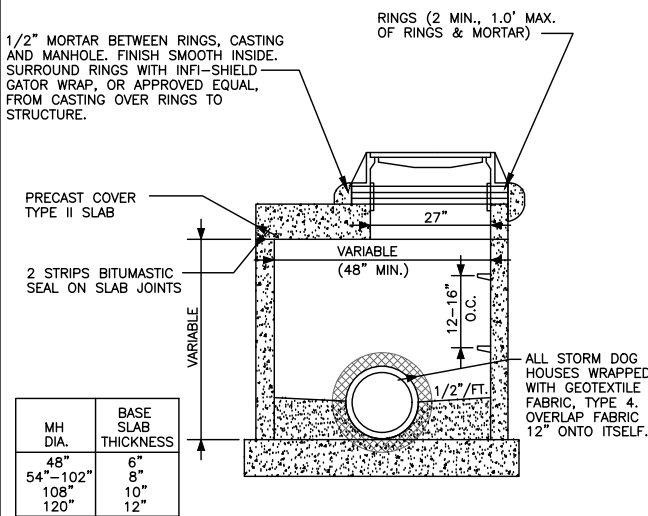


- MINIMUM TRENCH WIDTH:** Minimum trench width shall be 1.25*OD+12" or a minimum of 16" plus the outside diameter, whatever is greater. See table.
- FOUNDATION:** Areas of unstable trench bottom shall be excavated to a depth determined by the Engineer and replaced with suitable foundation material to meet the requirements of Note 8 below.
- BEDDING:** Bedding thickness shall be a minimum of 4" for pipe diameters through 24 inches. Bedding thickness shall be 6" for diameters larger than 24 inches. The material shall meet the requirements of Note 8 below.
- HAUNCHING:** This material is placed and compacted evenly on both sides of the pipe, from the top of the bedding elevation to the top of the pipe. The haunch/pipe zone material shall meet the requirements of Note 8 below.
- INITIAL BACKFILL:** Initial backfill is from the top of the haunch/pipe zone elevation to 6 inches above the top of the pipe. For traffic areas, initial backfill material shall meet the requirements of note 8 below unless roadway embankment requirements supercede.
- FINAL BACKFILL:** For traffic applications, final backfill material and compaction efforts shall be consistent with the Engineer's parameters for the sub grade of the pavement cross-section which is 95% of Standard Proctor Density from the encasement zone to 3 feet below the surface and 100% of Standard Proctor Density in the upper 3 feet.
- MINIMUM COVER:** Minimum cover shall be 18" for pipes 12"-42" in diameter and 24" for pipes 48"-60" in diameter for H-25 loadings measured from the bottom of the flexible pavement or top of rigid pavement. Temporary ramping with Class 5 may be needed during construction to maintain cover depths for construction vehicles.
- FOUNDATION, BEDDING, HAUNCHING, AND INITIAL BACKFILL:** Material meeting and installed per ASTM D2321 Class I, II, or III as approved by the Engineer.

2/25/10



STANDARD DRAWING NO. 106



NOTE: NO WOOD SHALL BE USED FOR ADJUSTING CASTING; CEMENT MORTAR ONLY.

CAST IRON MANHOLE FRAME & COVER AS PER SPECIFICATIONS (1642 B). STEPS SHALL BE CAST IRON, ALUMINUM OR STEEL REINFORCED PLASTIC, LOCATION AS SHOWN.

PRECAST REINFORCED CONCRETE MANHOLE SECTIONS PER ASTM C478.

FILL OPENING BETWEEN PIPE AND MANHOLE WALL WITH CEMENT MORTAR. INSIDE SURFACE SHALL BE FINISHED SMOOTH. WRAP OUTSIDE OF DOGHOUSE WITH GEOTEXTILE FABRIC, TYPE 4, OVERLAP FABRIC 12" ONTO ITSELF. ALL MORTAR SHALL CONFORM TO ASTM C270 AND MEET THE REQUIREMENTS OF MNDOT 2506.2B.

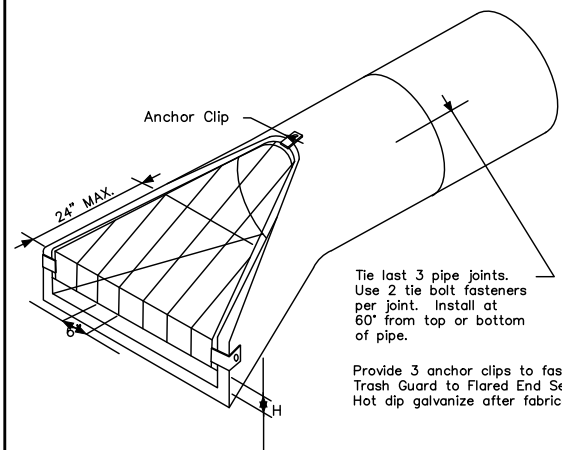
SHALLOW STORM SEWER MANHOLE

12/10/21



STANDARD DRAWING NO. 409E

See City Plate No. 411A for Riprap placement.



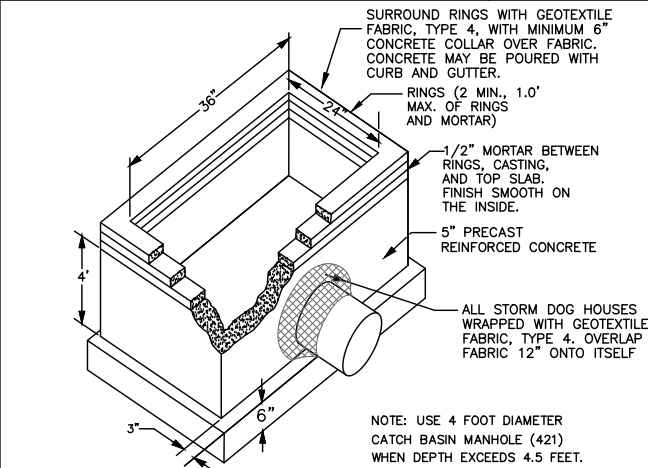
ISOMETRIC

FLARED END SECTION

3/4/10



STANDARD DRAWING NO. 419A



NOTES: NO WOOD SHALL BE USED FOR ADJUSTING CASTING; CEMENT MORTAR ONLY. IN NEW DEVELOPMENTS CAST IRON FRAME AND GRATE CASTINGS TYPE R-3501-TB SHALL BE USED. CAST IRON FRAME AND GRATE CASTINGS TYPE R-3067-V (ON A GRADE) OR R-3067-VB (LOW POINTS) SHALL BE USED IN RECONSTRUCTION AREAS OR AS CALLED OUT IN PLANS.

PRECAST REINFORCED CONCRETE BASE SLAB PER ASTM C478.

FILL OPENING BETWEEN PIPE AND MANHOLE WALL WITH CEMENT MORTAR. INSIDE SURFACE SHALL BE FINISHED SMOOTH. WRAP OUTSIDE OF DOGHOUSE WITH GEOTEXTILE FABRIC, TYPE 4, OVERLAP FABRIC 12" ONTO ITSELF.

ALL MORTAR SHALL CONFORM TO ASTM C270 AND MEET THE REQUIREMENTS OF MNDOT 2506.2B.

DOGHOUSE SHALL BE GROUTED ON BOTH THE OUTSIDE AND INSIDE.

MAXIMUM DIAMETER RCP STORM SEWER PIPE IS 15" ON THE SHORT SIDE AND 18" ON THE LONG SIDE OF CATCH BASIN.

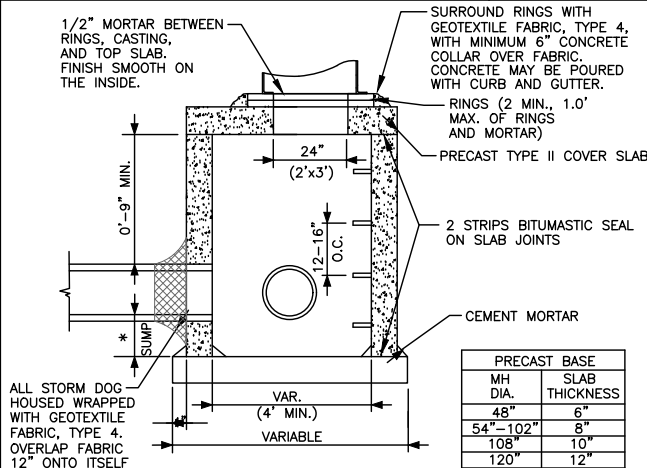
GROUT SUMP TO PIPE INVERT UNLESS A SUMP IS CALLED OUT IN PLANS.

CATCH BASIN, TYPE 420

2/22/16



STANDARD DRAWING NO. 420F



NOTES: NO WOOD SHALL BE USED FOR ADJUSTING CASTING; CEMENT MORTAR ONLY.

IN NEW DEVELOPMENTS CAST IRON FRAME AND GRATE CASTINGS TYPE R-3501-TB SHALL BE USED. CAST IRON FRAME AND GRATE CASTINGS TYPE R-3067-V (ON A GRADE) OR R-3067-VB (LOW POINTS) SHALL BE USED IN RECONSTRUCTION AREAS OR AS CALLED OUT IN PLANS.

MANHOLE STEPS SHALL BE CAST IRON, ALUMINUM, OR STEEL REINFORCED PLASTIC PER ASTM C478. LOCATION SHALL BE EASILY ACCESSIBLE.

PRECAST REINFORCED CONCRETE BASE SLAB & COVER SLAB PER ASTM C478.

PRECAST REINFORCED CONCRETE MANHOLE SECTIONS PER ASTM C478, FURNISHED WITH O-RING GASKETS & LUBRICANT.

FILL OPENING BETWEEN PIPE AND MANHOLE WALL WITH CEMENT MORTAR. INSIDE SURFACE SHALL BE FINISHED SMOOTH. WRAP OUTSIDE OF DOGHOUSE WITH GEOTEXTILE FABRIC, TYPE 4, OVERLAP FABRIC 12" ONTO ITSELF.

ALL MORTAR SHALL CONFORM TO ASTM C270 AND MEET THE REQUIREMENTS OF MNDOT 2506.2B.

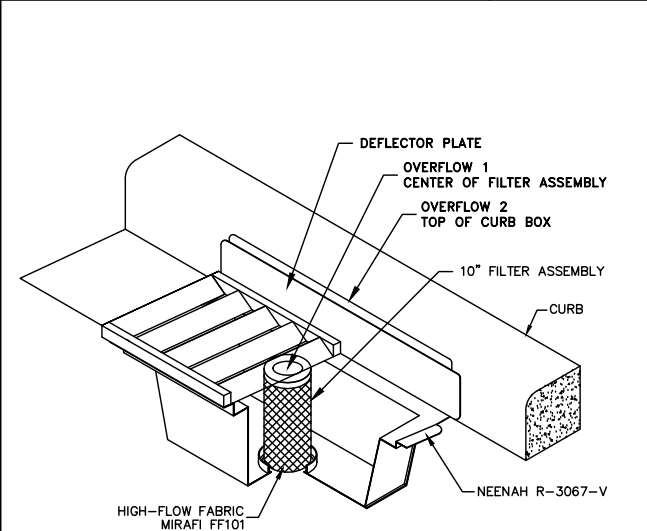
* REFER TO PLANS FOR SUMP DEPTH, IF ANY.

CATCH BASIN/MANHOLE WITH SUMP, TYPE 421

1/10/20



STANDARD DRAWING NO. 421G



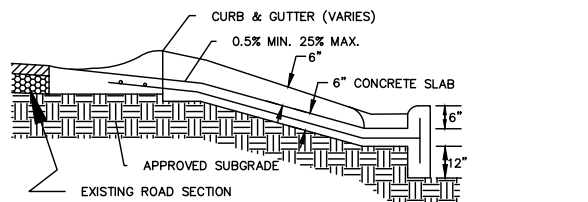
* OR APPROVED EQUAL *

WIMCO INLET PROTECTION N.T.S.

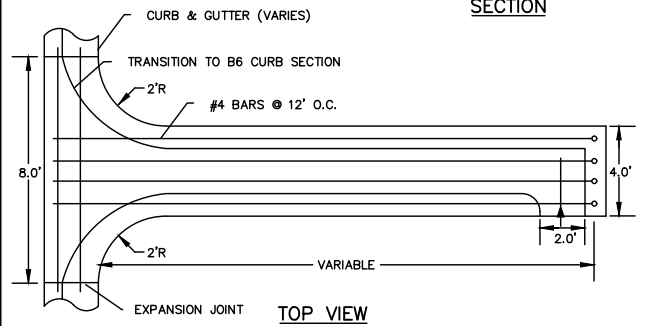
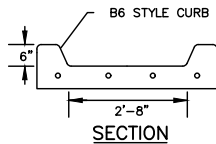
1/20/26



STANDARD DRAWING NO. 422



SECTION



CONCRETE SPILLWAY

1/25/13



STANDARD DRAWING NO. 412A

DESIGNED JJL

DRAWN JAK

CHECKED DDB

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

David D. Berkowitz
DATE 3/3/2026 LIC. NO. 26757

DAVID D. BERKOWITZ
TYPED OR PRINTED NAME



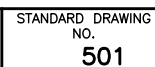
2026 STREET RECONSTRUCTION/FDR/MILL & OVERLAY
CITY PROJECTS
26-02E/26-11A/26-11C/26-11D/26-12

DETAILS

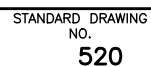
SHEET NO. 3 OF 46 SHEETS



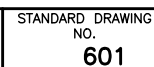
12/26/00



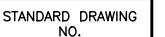
3/08/09



12/26/00



1/29/20



602



HAVE BOX EXTEND AS FAR IN FRONT OF SUPPORT POST AS POSSIBLE
(THIS PREVENTS POSSIBLE SNOW PLOW DAMAGE).

ADDRESS MUST BE ON SIDE OF BOX FROM WHICH CARRIER APPROACHES, IN LETTERS ABOUT ONE INCH HIGH OR ON FRONT WHERE BOXES ARE GROUPED.

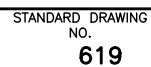
BOX MUST BE LOCATED SO CARRIER CAN SERVE WITHOUT LEAVING VEHICLE.

FACE OF MAIL BOX TO LINE UP WITH BACK OF CURB.

3/20/13



2/19/09



NO.	DATE	BY	DESCRIPTION OF REVISIONS

DESIGNED	DRAWN
JJL	JAK
CHECKED	

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

David D. Berkowitz

SIGNATURE _____ DAVID D. BERKOWITZ
TYPED OR PRINTED NAME

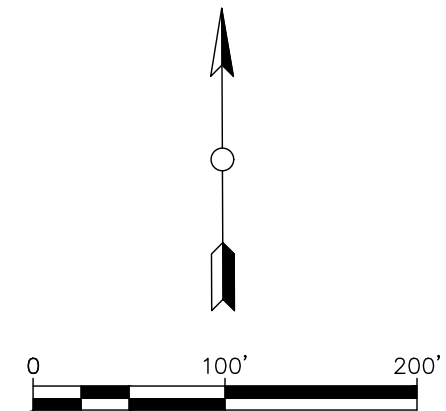
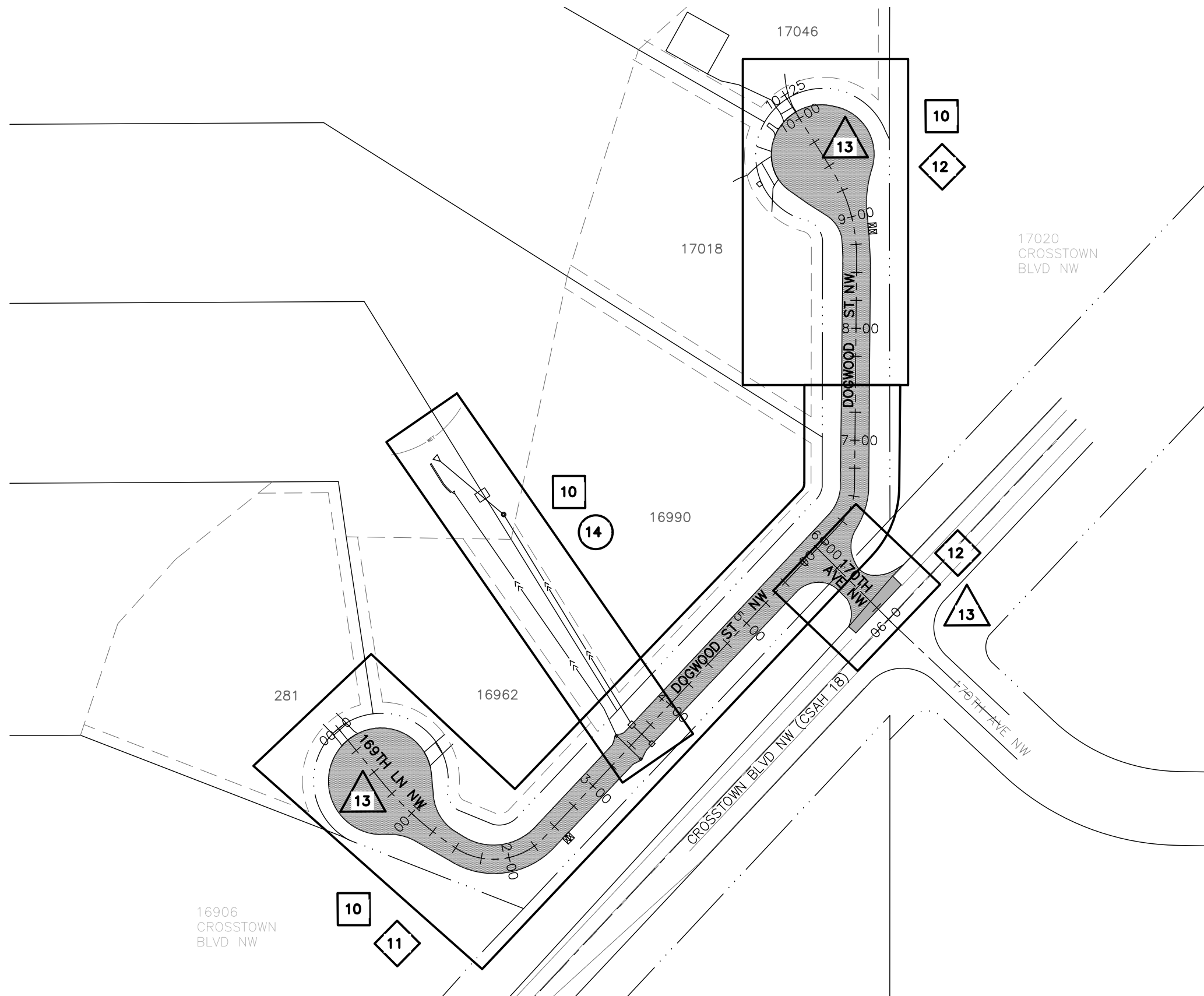
DATE 3/2/2026 LIC. NO. 26757



2026 STREET RECONSTRUCTION/FDR/MILL & OVERLAY
CITY PROJECTS
26-02E/26-11A/26-11C/26-11D/26-12

DETAILS

SHEET NO. 4 OF 46 SHEETS



- XX = REMOVALS
- XX = STORM SEWER
- XX = STREET & RESTORATION
- XX = INTERSECTION DETAILS

NO.	DATE	BY	DESCRIPTION OF REVISIONS

DESIGNED JJL	DRAWN JAK	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 DAVID D. BERKOWITZ TYPED OR PRINTED NAME	CHECKED DDB DATE 3/3/2026 LIC. NO. 26757



2026 STREET RECONSTRUCTION
LEEMAN LAKE ESTATES
CITY PROJECT 26-02E

PROJECT LAYOUT
SHEET NO. 5 OF 46 SHEETS

2026 Street Reconstruction - (Leeman Lake Estates)
City Project: 26-02E
STATEMENT OF ESTIMATED QUANTITIES

				TOTAL ESTIMATED PROJECT QUANTITIES	
NOTES	ITEM NO.	DESCRIPTION	UNIT	EST. QUAN.	ACT. QUAN.
	1	2021.501 Mobilization	LS	1.00	
	2	2101.502 Clearing	EA	14	
	3	2101.502 Grubbing	FA	14	
1	4	2104.502 Salvage Casting (Storm)	FA	2	
	5	2104.502 Remove Drainage Structure	EA	2	
2	6	2104.503 Salvage Timber Landscape Wall	LF	35	
3	7	2104.503 Sawing Concrete Pavement (Full Depth)	LF	40	
3	8	2104.503 Sawing Bit Pavement (Full Depth)	LF	90	
	9	2104.503 Remove Pipe Culvert / Storm Sewer	LF	115	
3	10	2104.518 Remove Concrete Pavement	SF	340	
3	11	2104.518 Remove Bituminous Pavement	SF	480	
4	12	2104.602 Salvage and Reinstall Mailbox	EA	4	
5	13	2105.607 Common Excavation (EV)	CY	290	
6	14	2105.607 Subgrade Excavation (EV)	CY	10	
7	15	2105.607 Salvage Reclaim Material (LV)	CY	20	
8	16	2105.607 Select Granular Borrow (LV)	CY	20	
9	17	2112.519 Subgrade Preparation	RDST	10.2	
10	18	2130.523 Water	MGAL	5	
11	19	2211.509 Aggregate Base Class 5	TN	90	
12	20	2211.607 Place Salvaged Reclaim Material (CV)	CY	10	
	21	2215.504 Full Depth Reclamation	SY	4,080	
	22	2232.504 Mill Bituminous Surface (1.5")	SY	100	
	23	2357.506 Bituminous Material For Tack Coat	Gal	190	
13	24	2360.509 Type SP 9.5 Wearing Course Mix (2,C)	TN	370	
	25	2360.509 Type SP 9.5 Bit Mix for Patching (2,B)	TN	20	
	26	2360.509 Type SP 12.5 Wearing Course Mixture (2,C)	TN	360	
	27	2411.504 Concrete Drainage Flume	SY	7	
14	28	2451.607 Trench Stabilization Material (CV)	CY	5	
	29	2501.502 15" CS Pipe Apron & Grate	FA	1	
	30	2503.503 15" RC Pipe Sewer Des 3006 Class V	LF	25	
	31	2503.602 Bulkhead Storm Sewer	EA	2	
	32	2503.603 15" HDPE Pipe Sewer	LF	300	
	33	2503.603 Clean & Televis Storm Sewer and Culverts	LF	325	
15	34	2504.602 Irrigation System Modifications	EA	20	
	35	2506.502 Casting Assembly - Storm	EA	3	
	36	2506.602 Construct Drainage Structure, Type 409 - 48" Dia.	FA	1	
	37	2506.602 Construct Drainage Structure, Type 420 - 2'x3'	EA	1	
	38	2506.602 Construct Drainage Structure, Type 421 - 48" Dia. w/ 4' Sump	EA	1	
	39	2511.507 Random Riprap Class III	CY	5	
	40	2531.503 Concrete Curb and Gutter Surmountable	LF	2,130	
	41	2531.504 6" Concrete Driveway Pavement	SY	60	
	42	2563.601 Traffic Control	LS	1.00	
	43	2573.502 Storm Drain Inlet Protection	EA	4	
	44	2573.503 Sediment Control Log Type Wood Chip	LF	300	
	45	2573.607 Rock Ditch Check - 1.5" Nom. Diameter	CY	3	
	46	2574.507 Loam Topsoil Borrow (LV)	CY	270	
16	47	2574.508 Fertilizer Type 3	LB	210	
	48	2575.504 Sodding Type Lawn	SY	420	
17	49	2575.504 Rolled Erosion Prevention Category 20	SY	150	
18	50	2575.505 Weed Spraying	ACRF	0.60	
	51	2575.505 Seeding	ACRE	0.60	
	52	2575.508 Hydraulic Mulch Matrix	LB	1,500	
	53	2575.508 Seed Residential Turfgrass	LB	120	

BASIS OF ESTIMATED QUANTITIES		
Bituminous Wear Course	120	# / SY / inch
Bituminous Non-Wear Course	120	# / SY / inch
Aggregate Base, Class 5	110	# / SY / inch
Tack Coat	0.05	Ga' / SY
Hydraulic Mulch Matrix	2500	# / acre
Fertilizer Type 3 (Analysis 22-5-10)	350	# / acre
Seed Mixture: Residential Turfgrass	200	# / acre

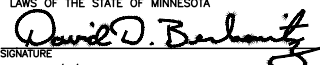
THE FOLLOWING STANDARD PLATES APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION SHALL APPLY ON THIS PROJECT	
STANDARD PLATES	
PLATE NO.	DESCRIPTION
3123J	METAL APRON FOR C.S. CULVERT
3124B	METAL APRON CONNECTION
8000K	TEMPORARY CHANNELIZERS - TYPE A

C.P. 26-02E Notes:

- Contractor shall salvage castings and stockpile on-site. Andover Public Works will dispose castings which become property of City of Andover.
- Salvage timber retaining wall approximately 2 courses tall. Stockpile near removal location for property owner.
- Regardless of depth.
- Includes salvage and re-install of existing mailbox and temporary placement of mailbox in same or near existing location during construction.
- Final excavation exceeds subgrade excavation. Dispose excess and/or unsuitable material off-site. See Earthwork Tabulation.
- For exc. beneath reclaimed agg. base where profile lowered or unsuitable material encountered. Dispose excess and/or unsuitable material off-site. See Earthwork Tabulation.
- For excavating hauling stockpiling reclaim material salvaged for subgrade exc. and/or excess material. Excess property of contractor. See Earthwork Tabulation.
- Only to be used if sufficient material not generated on-site for subgrade excavation/correction needed. If necessary.
- Includes grading reclaim material from areas of excess to areas requiring material under curb, along shoulder, increased crown, fine grading and compacting reclaimed agg. base.
- For dust control only as directed by the engineer. Water to achieve compaction shall be incidental.
- Item includes furnishing, hauling, placing and compacting. See Earthwork Tabulation.
- Includes loading, hauling, placing, grading, compacting salvaged reclaim material in areas of subgrade exc. or correction.
- Item shall be used for patching of bituminous roads and driveway replacements.
- Rock shall be 1.5' nominal diameter. Use under utility pipe and structures if water table is high.
- Based upon number of irrigation heads removed/replaced. Item shall include all items necessary to temporarily cap existing systems, replace damaged heads, heads, adjust systems and return them to pre-project condition or better. Work shall be performed by a licensed irrigation contractor.
- Analysis 22-5-10.
- Straw or wood fiber blanket is an acceptable alternative. Netting material shall be used netting.
- Only to be used if requested by engineer prior to or during site restoration.

NO.	DATE	BY	DESCRIPTION OF REVISIONS

DESIGNED
JJL
DRAWN
JAK
CHECKED
DDB

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

SIGNATURE
DATE: 3/3/2026 LIC. NO. 26757
DAVID D. BERKOWITZ
TYPED OR PRINTED NAME



2026 STREET RECONSTRUCTION
LEEMAN LAKE ESTATES
CITY PROJECT 26-02E

STATEMENT OF ESTIMATED QUANTITIES
SHEET NO. 6 OF 46 SHEETS

EARTH WORK TABLE

City Project 26-02E: Leeman Lake Estates

Aggregate Base Class 7 (Reclaim)

Existing 2" - 2.5" +/- of bituminous and 4" +/- aggregate base based on road cores
Reclaim 6" +/- deep (pull some sand into reclaim)

Roadway Length = 1.012 LF
Curb Length = 2.130 LF

Salvage Reclaim Material

Volume of salvaged reclaim material = 0 CY (CV)
Volume of salvaged reclaim material = 2 CY (CV)
Total Salvaged Reclaim = 2 CY (CV)

6" salvage in areas of subgrade / profile lowering 0 LF x 26' wide
6" salvage in areas of subgrade correction, if any 5 LF x 26' wide
Available material to be re-used on-site

Salvaged Reclaim Required

Volume required in subgrade exc. areas = 0 CY (CV)
Volume required in subgrade correction Areas = 2 CY (CV)
Total Salvaged Reclaim / Class 5 Required 2 CY (CV)

5" minimum
5" minimum

Aggregate Base Class 5 Required

Volume required for 169th Lane CDS = 38 CY (CV)
Volume required for driveway replacements = 5 CY (CV)
Total Class 5 Required 43 CY (CV)

Only use if sufficient reclaim not available on site. If sufficient reclaim available, grading part of subgrade prep.

Subgrade Excavation

Volume of subgrade exc. material for profile lowering = 0 CY (EV)
Volume of subgrade exc. material - correction areas = 10 CY (EV)
Total Salvaged Reclaim = 10 CY (EV)

Assume 2' depth in correction excavation, if any areas found

Common Excavation

Volume of common exc. - driveway removals 3 CY (EV)
Volume of common exc. - behind curb = 280 CY (EV)
Volume of common exc. material - flume daylight = 5 CY (EV)
Total Common Excavation = 288 CY (EV)

Miscellaneous excavation for driveway apron replacements
Assume 3.5' x curb length x 1'. Dispose unsuitable off-site, use clean material for curb backfill
Excavate end of flume / ditch to drain

Topsoil Borrow

190 CY (CV)

Curb length x 3' x 0.75' deep. Utilize salvaged common ex. if suitable first. 4" min. in all disturbed areas.

EARTHWORK SUMMARY**

Salvage Reclaim Material

Volume of salvaged reclaim 10 CY (CV)
20 CY (LV)

Place Salvaged Reclaim Material

Volume of salvaged reclaim material to replace = 10 CY (CV)

For replacement of salvaged reclaim in areas of profile lowering or subgrade correction

Reclaimed Aggregate Base Balance

Volume of salvaged reclaim material available = 10 CY (CV)
Volume of required reclaim material = 10 CY (CV)
Balance of reclaim material = 0 CY (CV)
0 CY (LV)

Haul out and dispose of excess. Excess property of contractor

Common Excavation

290 CY (EV)

Haul out and dispose of unsuitable and excess material off-site. Use clean material for curb backfill.

Subgrade Excavation

10 CY (EV)

Haul out and dispose of unsuitable and excess material off-site.

Aggregate Base Class 5

90 Tons

Topsoil Borrow

190 CY (CV)
270 CY (LV)

Select Granular Borrow

20 CY (LV)

For backfill of subgrade correction if necessary. Only used if sufficient material not available on-site.

Excess Excavation Material to Dispose of Off-Site

230 CY (EV)
300 CY (LV)

Excess reclaim, and assumed 75% of common exc material and subgrade exc material

** quantities for pay items are rounded to nearest 10

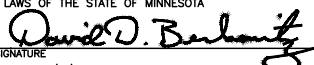
Swell Factors

EV to LV = 1.3
LV to CV = 1.4
LV to CV = 1.5 (For reclaimed material)
1 CY Class 5 = 2 tons (147 #/CF)

DESIGNED
JJL

CHECKED
DDB

DRAWN
JAK

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

SIGNATURE DATE 3/3/2026 LIC. NO. 226757
DAVID D. BERKOWITZ
TYPED OR PRINTED NAME



2026 STREET RECONSTRUCTION
LEEMAN LAKE ESTATES
CITY PROJECT 26-02E

EARTHWORK SUMMARY

SHEET NO. 7 OF 46 SHEETS

NO.	DATE	BY	DESCRIPTION OF REVISIONS

GENERAL NOTES:

THE 2025 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN.
CITY OF ANDOVER 2026 UTILITY AND STREET CONSTRUCTION SPECIFICATIONS SHALL APPLY.

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

ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO AND BE INSTALLED IN ACCORDANCE WITH THE "MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MMUTCD)" AND THE "TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS FIELD MANUAL", NEWEST ADDITIONS.

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE EXCAVATING CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. THE CONTRACTOR IS REQUIRED TO CALL GOPHER ONE CALL AT LEAST 48 HOURS IN ADVANCE OF CONSTRUCTION. (651-454-2000)

CONSTRUCTION NOTES:

ROAD WORK AHEAD SIGNS SHALL BE MAINTAINED AT ALL INTERSECTING ROADS TO THE PROJECT. TYPE B CHANNELIZERS SHALL BE USED IN ALL NECESSARY LOCATIONS.

CONSTRUCTION SHALL BE STAGED SUCH THAT TRAFFIC IS MAINTAINED AT ALL TIMES. CONTRACTOR SHALL USE FLAG PERSON, IF NEEDED (INCIDENTAL TO TRAFFIC CONTROL).

COMPACTION OF ALL BITUMINOUS MIXTURE SHALL BE BY THE "SPECIFIED DENSITY METHOD" EXCEPT FOR PATCHES AND TRAILS, WHICH SHALL BE BY THE "ORDINARY COMPACTION METHOD".

THE CONTRACTOR SHALL USE FLAG PERSON'S AND APPROPRIATE TRAFFIC CONTROL DEVICES TO DIRECT TRAFFIC AT INTERSECTING COUNTY ROADS. ALL TRAFFIC CONTROL MUST BE ACCEPTABLE TO THE ANOKA COUNTY HIGHWAY DEPARTMENT. CONTRACTOR SHALL APPLY FOR A PERMIT FOR WORKING WITHIN ANOKA COUNTY RIGHT OF WAY. PROVIDE A COPY OF COUNTY PERMIT TO CITY ENGINEER.

ABSENT A ROAD CLOSURE, RECONSTRUCTION SHALL BE PERFORMED IN A MANNER TO ALLOW LOCAL TRAFFIC TO BE MAINTAINED TO A MINIMUM OF HALF THE ROADWAY WIDTH. THE CONTRACTOR SHALL USE FLAG PERSON'S TO DIRECT TRAFFIC AS NEEDED.

CONTRACTOR SHALL PROVIDE 3 DAY NOTICE PRIOR TO POTENTIAL ROAD CLOSURE FOR UNDERGROUND UTILITY CONSTRUCTION. TYPE 3 BARRICADES WITH "ROAD CLOSED" SHALL BE INSTALLED ON BOTH SIDES OF UTILITY CONSTRUCTION ACTIVITY. STAGE CONSTRUCTION TO ALLOW FOR LOCAL RESIDENT ACCESS AS NEEDED.

DURING ALL ASPECTS OF CONSTRUCTION DRIVEWAYS SHALL BE RAMPED WITH GRAVEL IN A TIMELY MANNER TO PROVIDE RESIDENTS ACCESS. UPON THREE DAYS OF CURE, CONC. CURBING AT DRIVEWAYS SHALL BE BACKFILLED & RAMPED WITH GRAVEL TO PROVIDE ACCESS.

DURING THE CONSTRUCTION OF CONC. CURB & DRIVEWAYS, THE CONTRACTOR SHALL COORDINATE WITH ENGINEER TO NOTIFY RESIDENTS OF PENDING CONSTRUCTION ACTIVITY. A THREE DAY NOTICE IS REQUIRED PRIOR TO POURING CONC. CURB & DRIVEWAYS. IMMEDIATELY UPON COMPLETION THE ROADWAY SHALL BE GRADED TO ALLOW RESIDENTS TO PARK ON STREET ADJACENT TO THEIR PROPERTY.

CONCRETE CURBING SHALL BE KNOCKED DOWN AT ALL DRIVEWAY ENTRANCES (INCIDENTAL). CONSTRUCT B618 C&G ON ALL RADII, CATCH BASIN LOCATIONS & ADDITIONAL LOCATIONS AS NOTED ON PLAN. (PAID AS SURMOUNTABLE C&G).

EXISTING MAILBOXES SHALL BE SALVAGED AND REINSTALLED WHERE CALLED OUT IN PLANS. DURING CONSTRUCTION TEMPORARY MAILBOXES SHALL BE PLACED NEAR THE ORIGINAL MAILBOX LOCATION. THE TEMPORARY MAILBOXES SHALL BE MOUNTED ON BARRELS TO BE PORTABLE. PROPERTY OWNER MAY SUPPLY NEW POST AND/OR BOX TO BE PLACED IN THE ORIGINAL LOCATION.

RESIDENTS WILL BE ASKED TO MARK IRRIGATION PRIOR TO CONSTRUCTION. CONTRACTOR SHALL VERIFY LOCATION OF EXISTING SYSTEMS. WHERE BOULEVARD IRRIGATION MODIFICATIONS ARE REQUIRED THE IRRIGATION LINES/HEADS SHALL BE REMOVED & DISPOSED. REMAINING LINES SHALL BE PLUGGED & MARKED. ALL REPLACED IRRIGATION LINES/HEADS SHALL BE WITH NEW COMMERCIAL GRADE MATERIALS. CONTRACTOR WILL BE PAID A UNIT PER HEAD REPLACED. EXISTING LOCATIONS SHOWN ON PLANS ARE ONLY SCHEMATIC. ALL WORK SHALL BE BY AN IRRIGATION CONTRACTOR LICENSED TO WORK IN THE CITY OF ANDOVER.

THE CONTRACTOR SHALL PROTECT, SALVAGE AND REPAIR ALL EXISTING LANDSCAPING IN KIND. THIS SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.

THE FOLLOWING CONSTRUCTION ITEM'S SHALL OCCUR PRIOR TO COMMENCING THE RECLAIMING OPERATION. INSTALL TRAFFIC CONTROL, REMOVE STREET SIGN'S (CITY), INSTALL TEMP. EROSION CONTROL MEASURES, IDENTIFY & CAP IRRIGATION SYSTEMS IN AREAS OF CURB REPLACEMENT, SALVAGE LANDSCAPING, REMOVE EX. & INSTALL TEMP. MAILBOX'S WHERE IDENTIFIED IN PLANS.

EXISTING DRIVEWAYS SHALL BE SAWCUT AS DIRECTED BY ENGINEER, REMOVED AND DISPOSED OF OFF SITE . BITUMINOUS AND CONCRETE DRIVEWAYS SHALL BE REPLACED IN KIND. GRAVEL DRIVEWAYS SHALL BE REPLACED WITH A 10-15' BITUMINOUS APRON. ANY DAMAGE CAUSED BY CONSTRUCTION ACTIVITY SHALL BE SAWCUT AND REPAIRED IN KIND AT THE CONTRACTORS EXPENSE.

WHERE SUBGRADE EXCAVATION AND/OR UTILITY WORK OCCURS WITHIN THE ROADWAY THE RECLAIMED BASE SHALL BE SALVAGED & REPLACED PER THE TYPICAL SECTION (INCIDENTAL). THIS WORKSHALL BE DONE IN A MANNER SO RECLAIMED BASE IS NOT CONTAMINATED WITH SPOIL MATERIAL. COMPACTION OF THE RECLAIMED BASE MATERIAL SHALL BE ACHIEVED BY THE PENETRATION INDEX METHOD IN ACCORDANCE WITH MNDOT 2211.3C3. THE BOTTOM OF THE SUBCUTS SHALL BE SHAPED AND COMPACTED BY THE "QUALITY COMPACTION METHOD"

THE CONTRACTOR SHALL STRIP AND STOCKPILE EXISTING TOPSOIL MATERIAL, IF ANY, FOR RE-USE (LITTLE IS EXPECTED). RE-USED TOPSOIL SHALL BE CLEAN WITH NO SOD CHUNKS / EXISTING VEGETATION. TOPSOIL STRIPING, IF ANY, SHALL BE CONSIDERED INCIDENTAL.

SELECT EXCAVATED MATERIALS SHALL BE UTILIZED TO THE FULLEST EXTENT WITHIN THE PROJECT LIMITS TO BACKFILL PROPOSED CURB & GUTTERS. ANY EXCESS MATERIAL, OR MATERIAL WITH DEBRIS / SOD CHUCKS SHALL BE DISPOSED OF OFF-SITE.

EXCAVATION AND DISPOSAL OF SOIL/TURF MATERIAL SHALL BE INCIDENTAL TO REMOVAL PAY ITEMS UNLESS OTHERWISE NOTED. CONTRACTOR SHALL MINIMIZE EXCAVATION AND DISTURBANCE ALONG THE PROJECT CORRIDOR.

ALL DISTURBED AREAS SHALL BE BACKFILLED WITH SALVAGED TOPSOIL, IF ANY. DISTURBED AREAS SHALL BE RESTORED WITH 4" (MINIMUM) TOPSOIL & SOD OR SEED/FERTILIZER/HYDROMULCH (UNMAINTAINED AREAS). ALL RESTORATION SHALL OCCUR WITHIN 7 DAYS OF GRADING COMPLETION. SOIL STOCKPILES SHALL BE STABILIZED WITHIN 7 DAYS OF ROUGH GRADING OR INACTIVITY (INCIDENTAL). RESTORATION WORK SHALL BE COMPLETED PRIOR TO PAVING WEARING COURSE UNLESS OTHERWISE APPROVED BY ENGINEER IN THE FIELD.

ALL EXISTING SIGNS SHALL BE REMOVED AND REPLACED BY THE ANDOVER SIGN DEPARTMENT UNLESS CALLED OUT OTHERWISE IN THE PLANS. COORDINATE WITH MINIMUM 48 HOUR NOTICE WITH ENGINEER IN FIELD.

CONCRETE WASHOUT SHALL BE CONTAINED WITHIN CONCRETE TRUCKS, NOT DISPOSED OF ON-SITE.

CONTRACTOR SHALL SWEEP ALL MATERIAL OFF ADJACENT STREETS DUE TO CONSTRUCTION ACTIVITY, DAILY AS NECESSARY (INCIDENTAL).

INSTALL INLET PROTECTION DEVICES ON ALL STORM SEWER STRUCTURES. PRIOR TO PLACING CASTINGS ON STORM SEWER STRUCTURES THE CONTRACTOR SHALL FOLLOW STANDARD DETAIL IN THE PLANS TO ALLOW FOR INFLOW INTO THE STORM SEWERS. ONCE CASTINGS ARE INSTALLED ON STORM SEWER STRUCTURES THE CONTRACTOR SHALL INSTALL INLET PROTECTION ON ALL STRUCTURES SUCH THAT SEDIMENT IS CAPTURED WITH A HIGH FLOW BYPASS. CLEAN AS NECESSARY.

CONTRACTOR IS REQUIRED TO REPAIR AND MAINTAIN ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL PRACTICES ACCORDING TO THE MPCA BEST MANAGEMENT PRACTICES MANUAL, SWPPP, AND THE MINNESOTA STORM WATER MANUAL (INCIDENTAL).

CONTRACTOR SHALL REMOVE ALL TEMPORARY SEDIMENT CONTROL PRACTICES ONCE VEGETATION IS RE-ESTABLISHED (INCIDENTAL).

REFER TO SWPPP IN PROJECT SPECIFICATION FOR ADDITIONAL CONSTRUCTION/EROSION CONTROL REQUIREMENTS.

WHEN CONNECTING NEW PAVED SURFACING TO ANY IN-PLACE PAVEMENTS, CUT VERTICALLY TO THE BOTTOM OF THE IN-PLACE PAVEMENTS OR TO THE BOTTOM OF THE NEW SURFACING, WHICHEVER IS DEEPER, THEN AT 2(V):1(H) SLOPE TO THE TOP OF THE SUBGRADE.

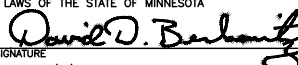
						DESIGNED JJL	DRAWN JAK	I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA  SIGNATURE DATE 3/3/2026 LIC. NO. 26757		2026 STREET RECONSTRUCTION LEEMAN LAKE ESTATES CITY PROJECT 26-02E	CONSTRUCTION NOTES			
													SHEET NO. 8 OF 46 SHEETS	
NO.	DATE	BY	DESCRIPTION OF REVISIONS			CHECKED DDB								

Diagram illustrating the cross-section of a 60' wide road. The road has a 2.5% crown and 4:1 maximum side slopes. The central section is 13' wide, with 12' wide shoulders on each side. The road is constructed on an approved subgrade with a bituminous curb (typical). A 4" topsoil layer is shown on the right shoulder. The diagram also indicates a 4:1 maximum slope for the side slopes and a 2.5% crown for the road surface. A callout 'INSET 1' points to the central section of the road.

PROPOSED

R/W

60'

CL

13.33' 11' 13.33' 11'

4:1 MAX.

1' MIN. (TYP.)

EXISTING APPROVED SUBGRADE

INSET 2

SURM. CONC. CURB & GUTTER (TYP)

4" TOPSOIL

4:1 MAX.

3% 3%

Plan view of the proposed road layout. The diagram shows a 60' wide road section with a centerline (CL) and a 4:1 MAX. slope. The existing approved subgrade is shown below the proposed road. Dimensions include 14' and 13' from the centerline to the edges, and a 3% slope. A 4" TOPSOIL layer is indicated at the bottom right. A callout 'INSET 2' points to a specific area on the subgrade.

1.5" – TYPE SP 9.5 WEAR COURSE
MIX (2,C) SPWEA240C

2357 TACK COAT

1.5" – TYPE SP 12.5 WEAR COURSE
MIX (2,C) SPWEB240C

5" +/- RECLAIMED CL.5 AGGREGATE BASE

EXISTING GRANULAR SUBGRADE

2.5" - TYPE SP 9.5 WEAR COURSE MIX (2,B) SPWEA240B

4" MIN. CL.5 AGGREGATE BASE

EXISTING GRANULAR SUBGRADE

A circular detail view showing a cross-section of the pavement structure. It features a 6-inch thick concrete base layer, indicated by a stippled pattern, which sits on an existing granular subgrade, indicated by a dashed pattern. A leader line points to the concrete layer with the text "6" CONCRETE", and another leader line points to the subgrade with the text "EXISTING GRANULAR SUBGRADE".

NO.	DATE	BY	DESCRIPTION OF REVISIONS

DESIGNED DRAWN
J.J.L. J.A.K.

CHECKED
D.D.B.

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

David D. Berkowitz

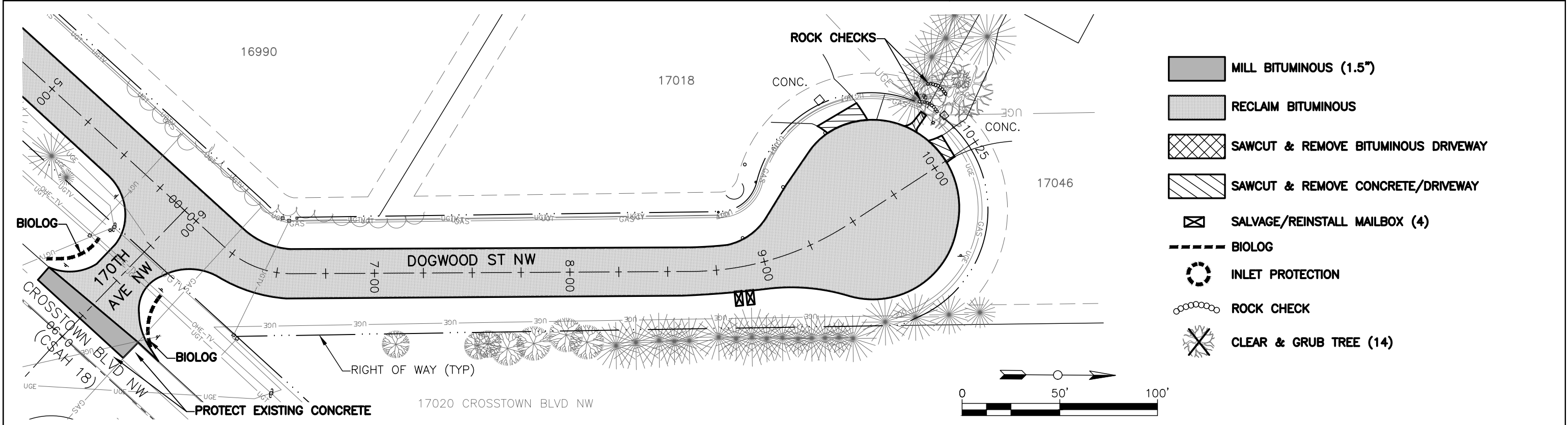
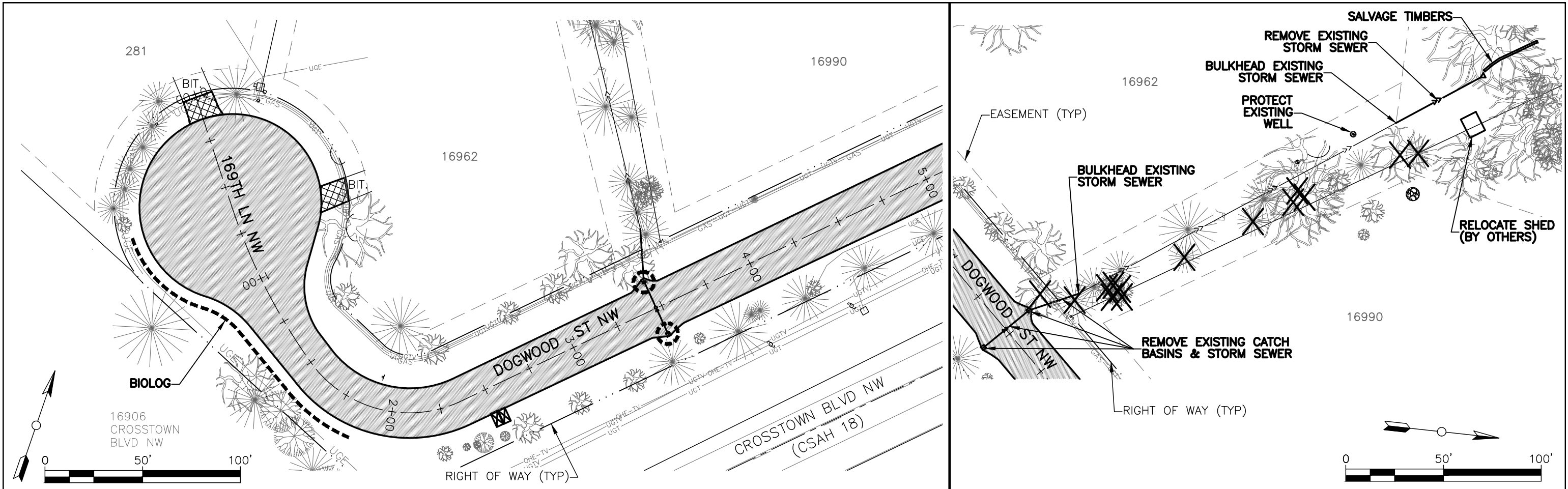
SIGNATURE _____ DATE 3/3/2026 LIC. NO. 26757

DAVID D. BERKOWITZ
TYPED OR PRINTED NAME _____

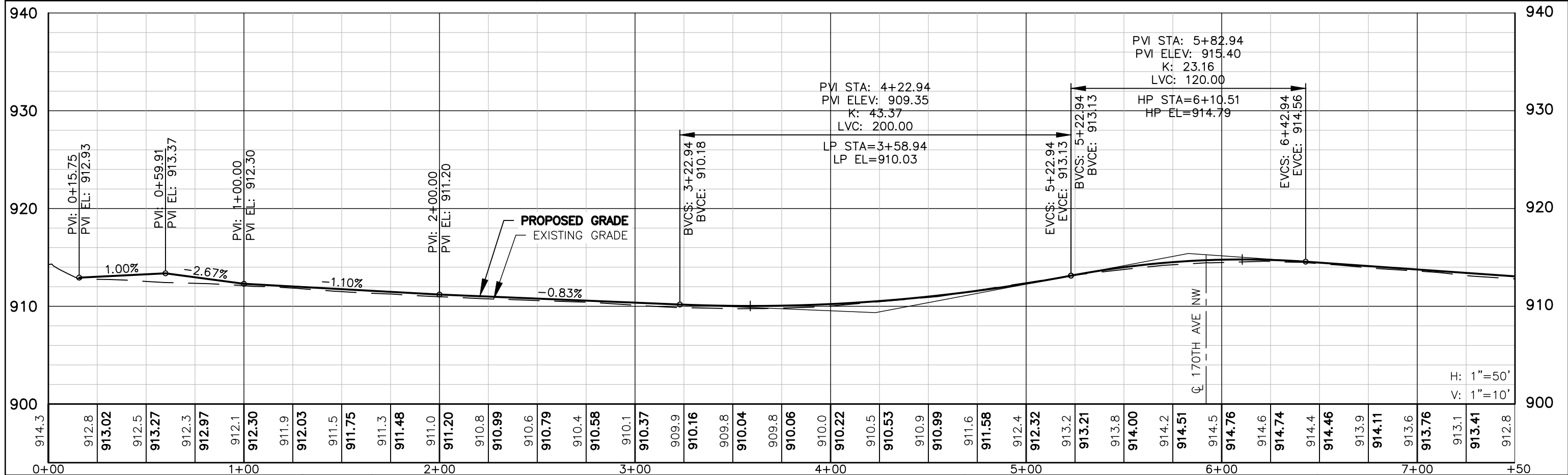
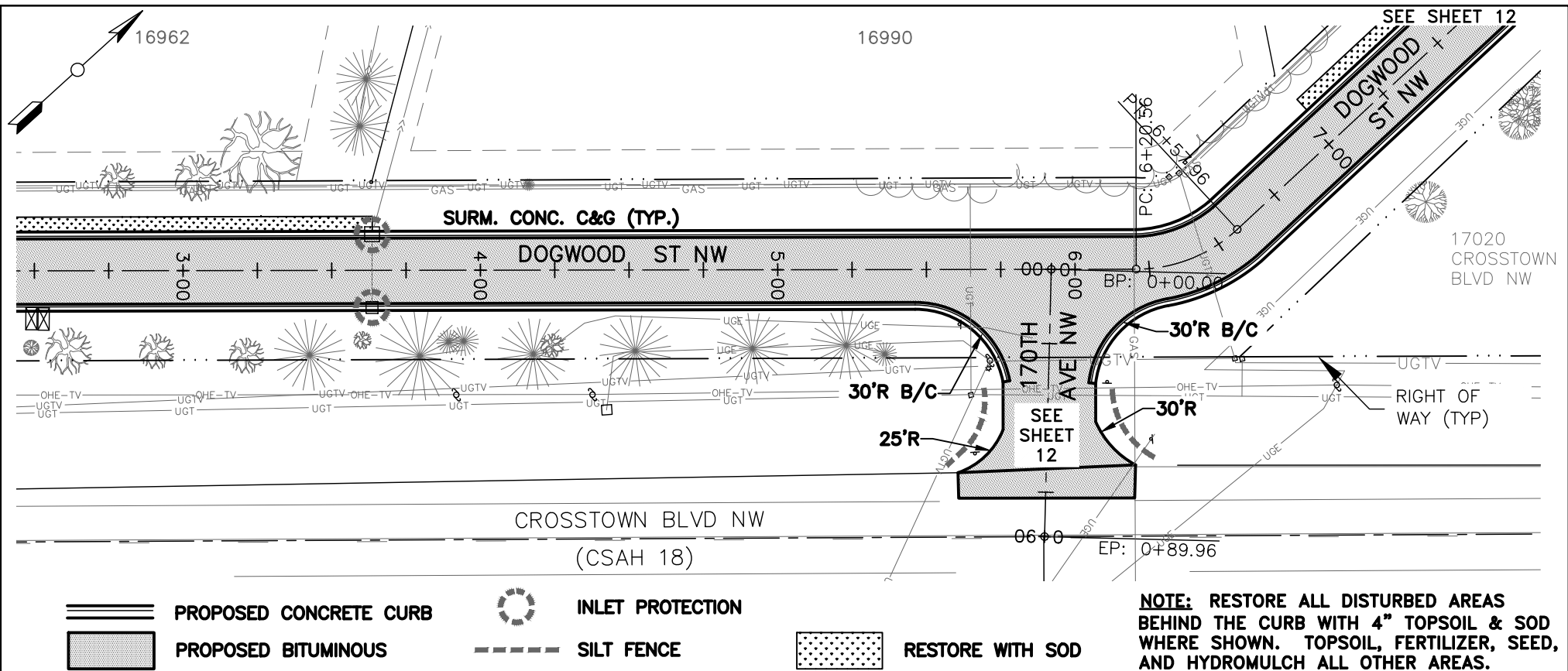
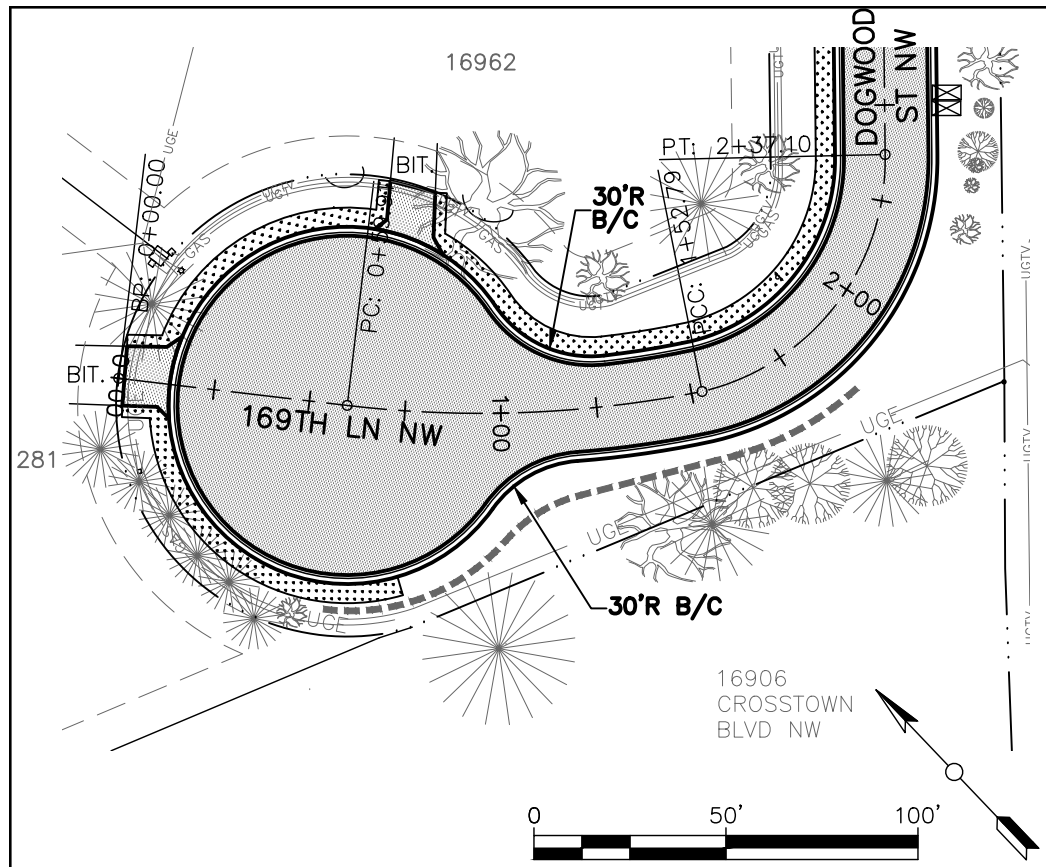


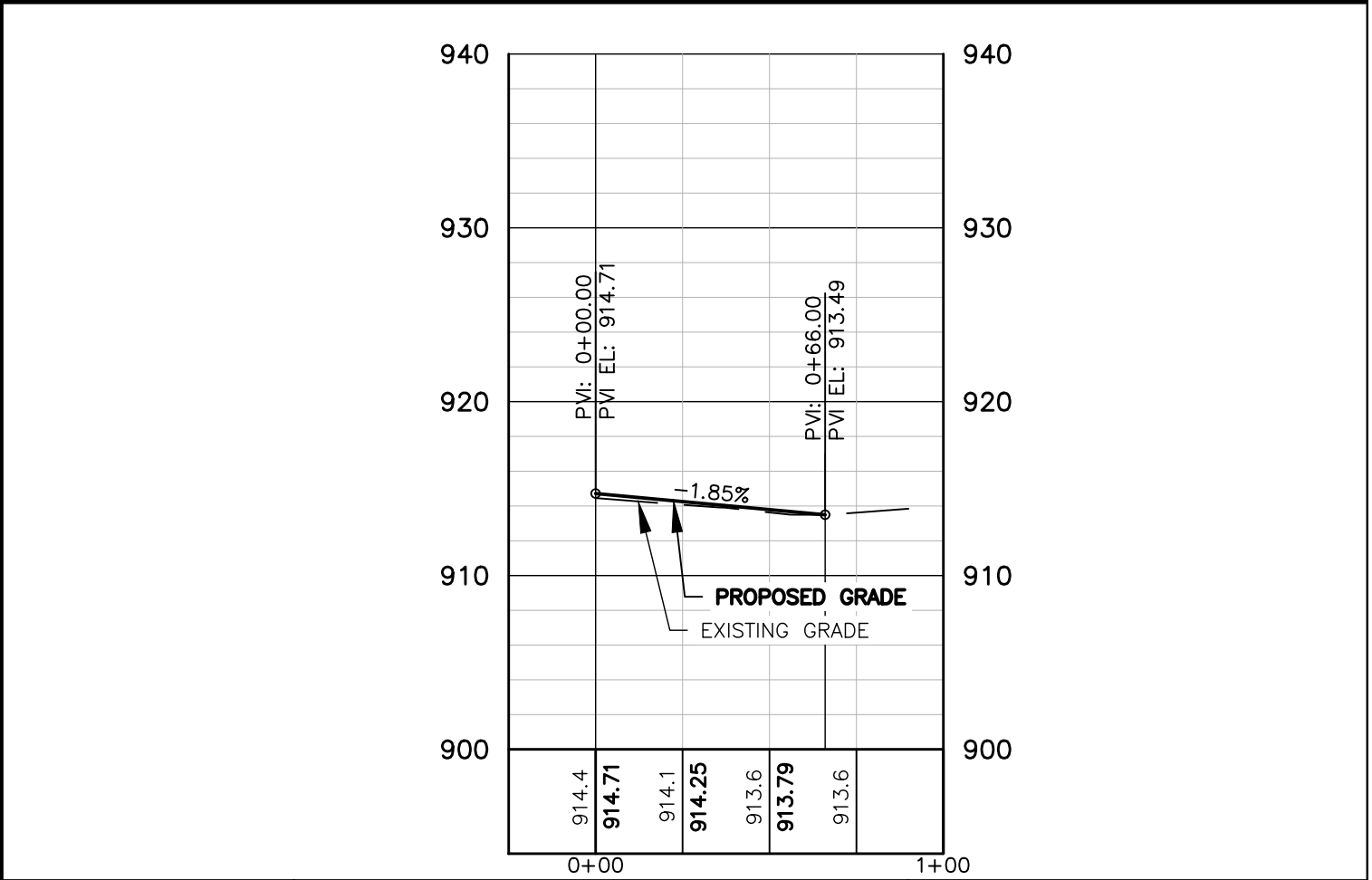
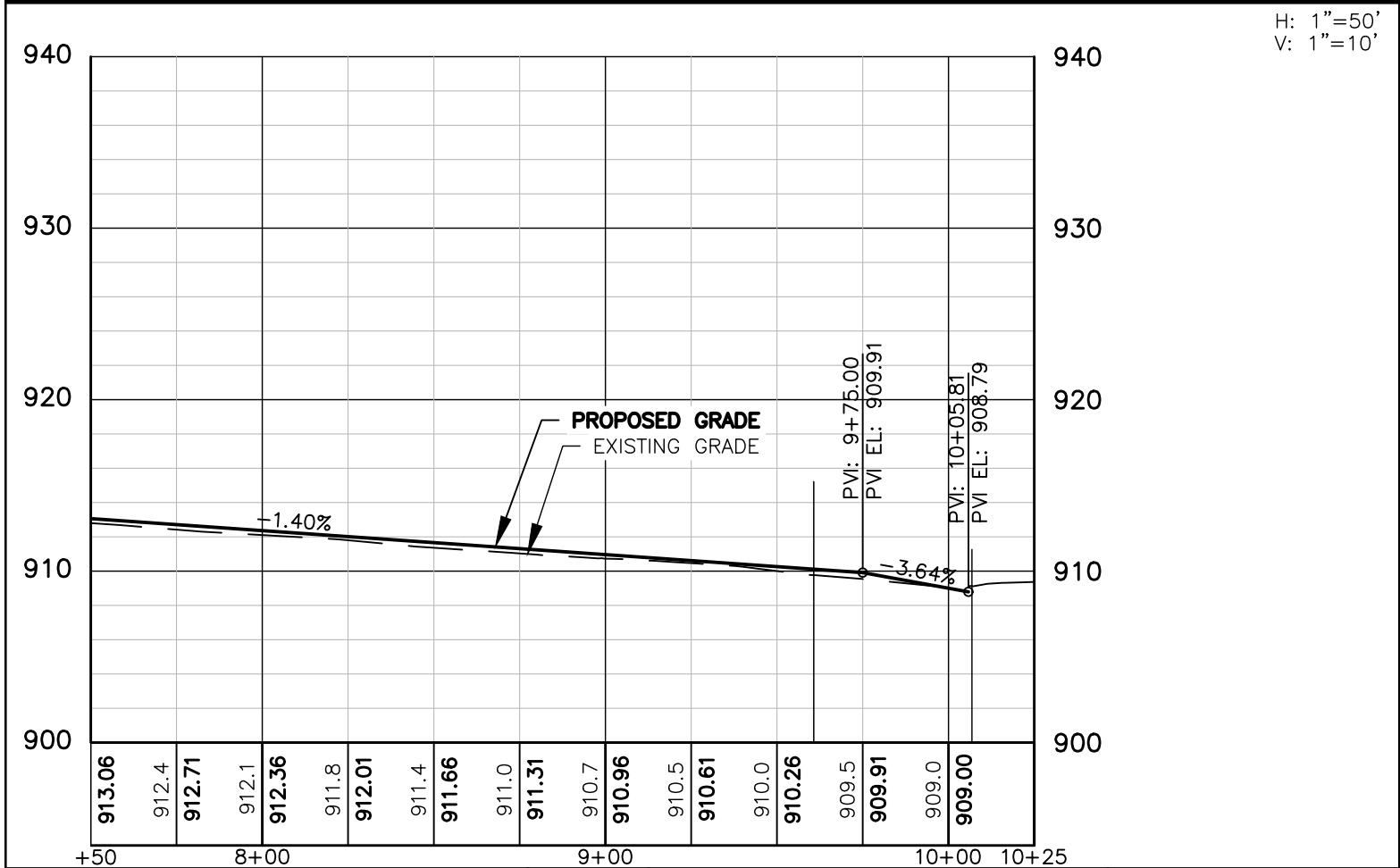
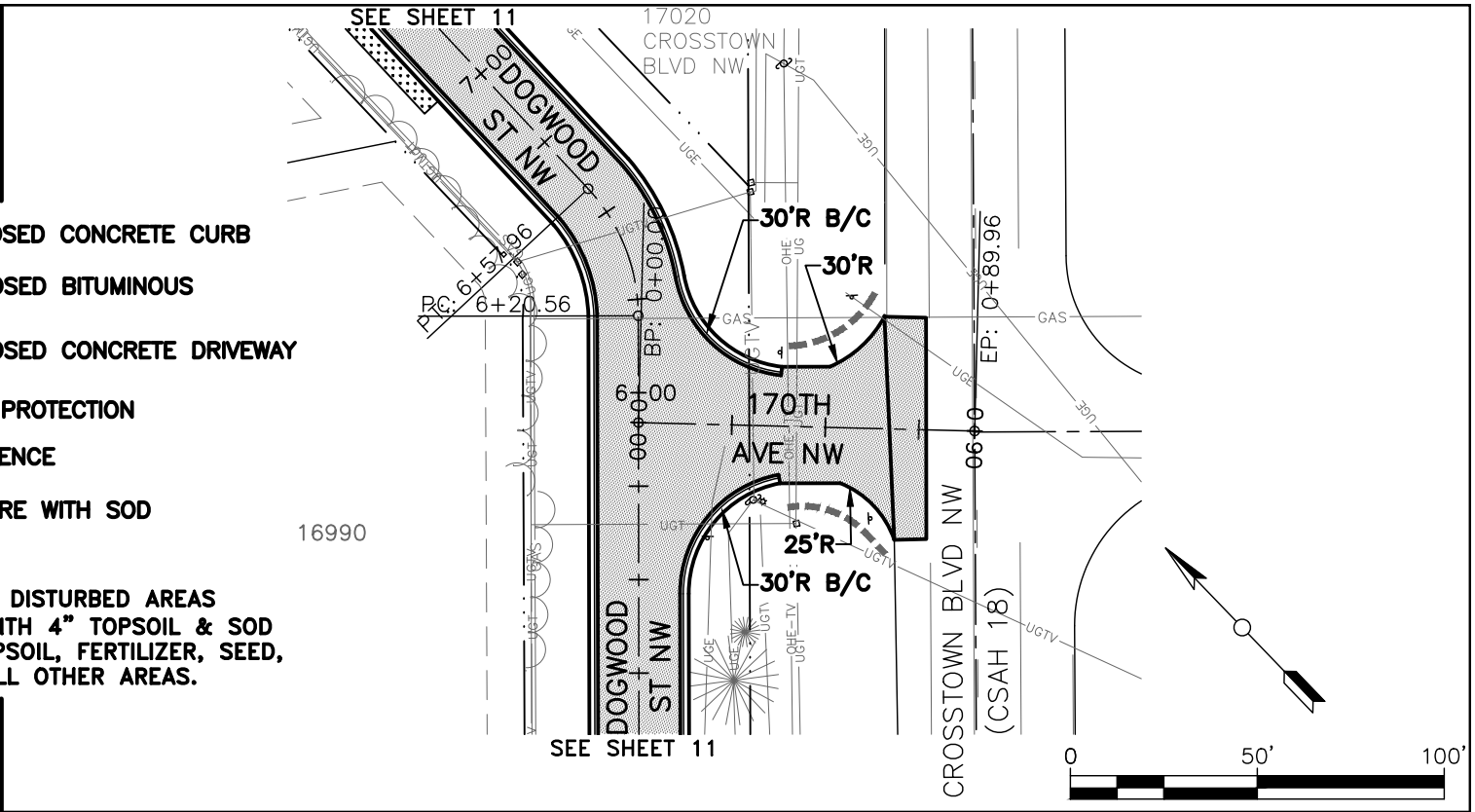
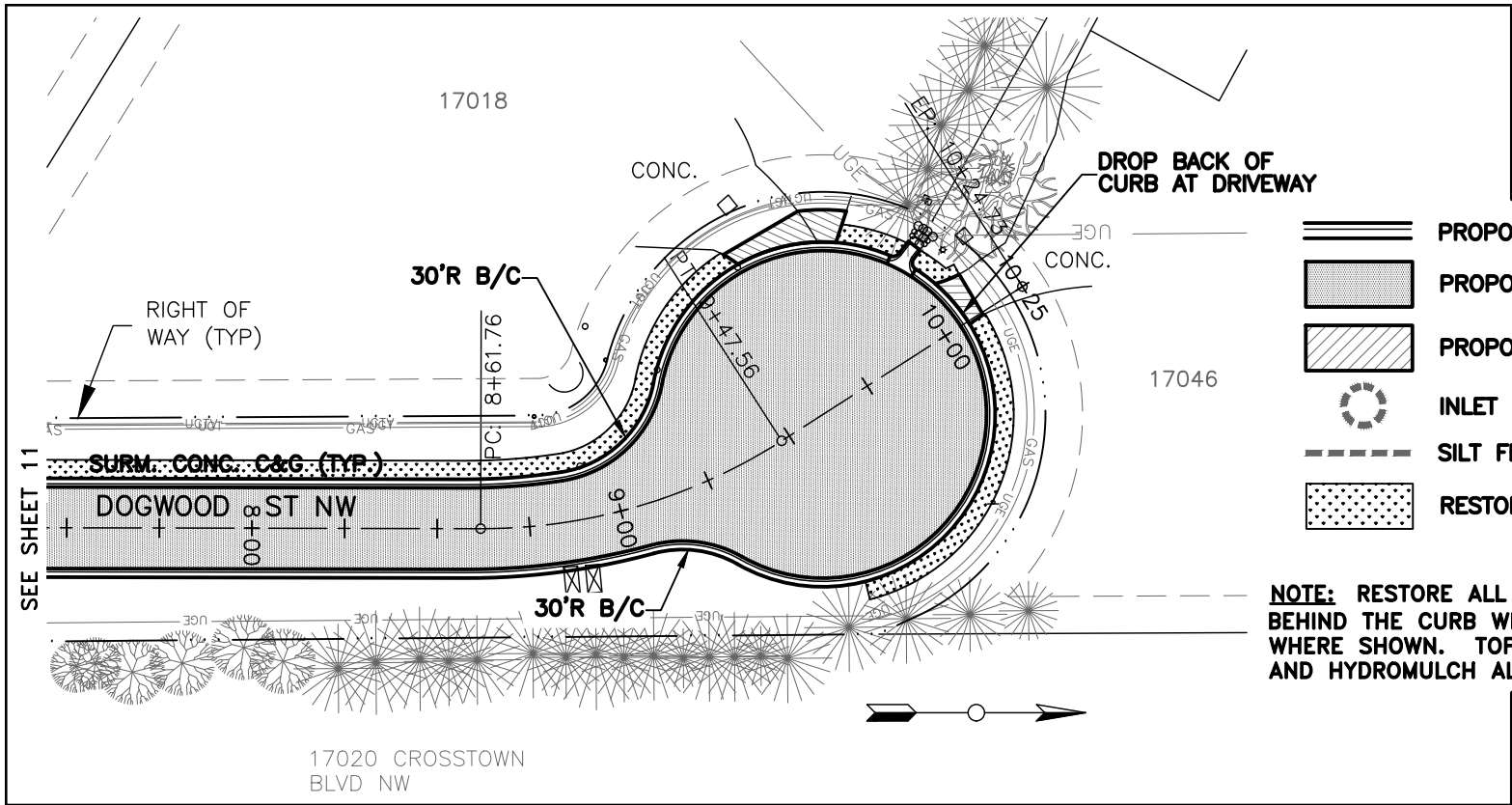
TYPICAL SECTIONS

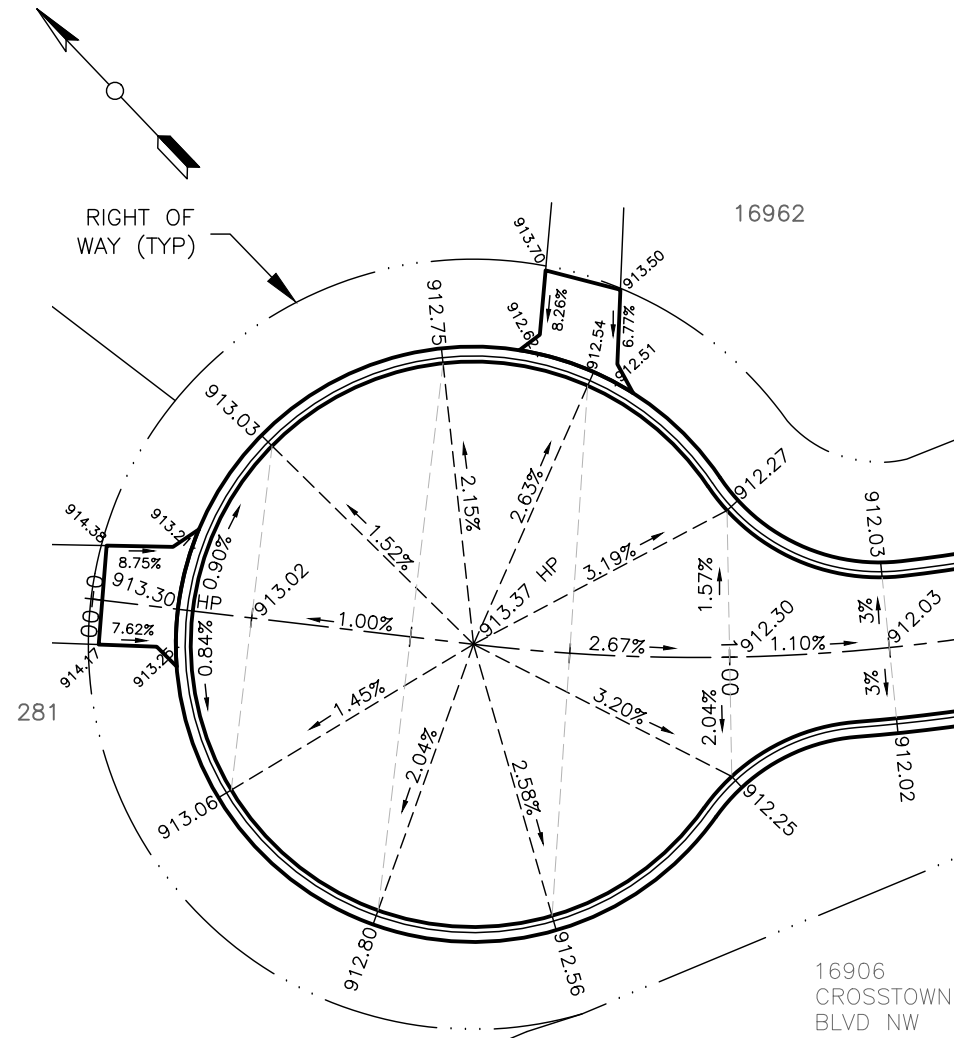
SHEET NO. 9 OF 46 SHEETS



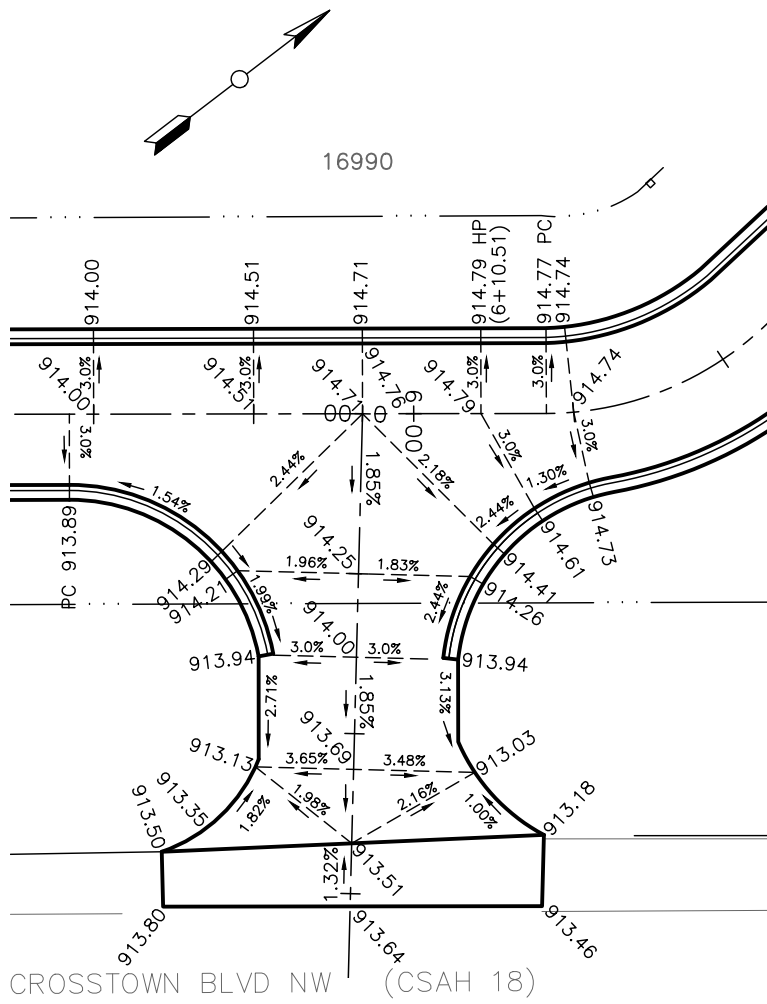
- MILL BITUMINOUS (1.5")
- RECLAIM BITUMINOUS
- SAWCUT & REMOVE BITUMINOUS DRIVEWAY
- SAWCUT & REMOVE CONCRETE/DRIVEWAY
- SALVAGE/REINSTALL MAILBOX (4)
- BIOLOG
- INLET PROTECTION
- ROCK CHECK
- CLEAR & GRUB TREE (14)



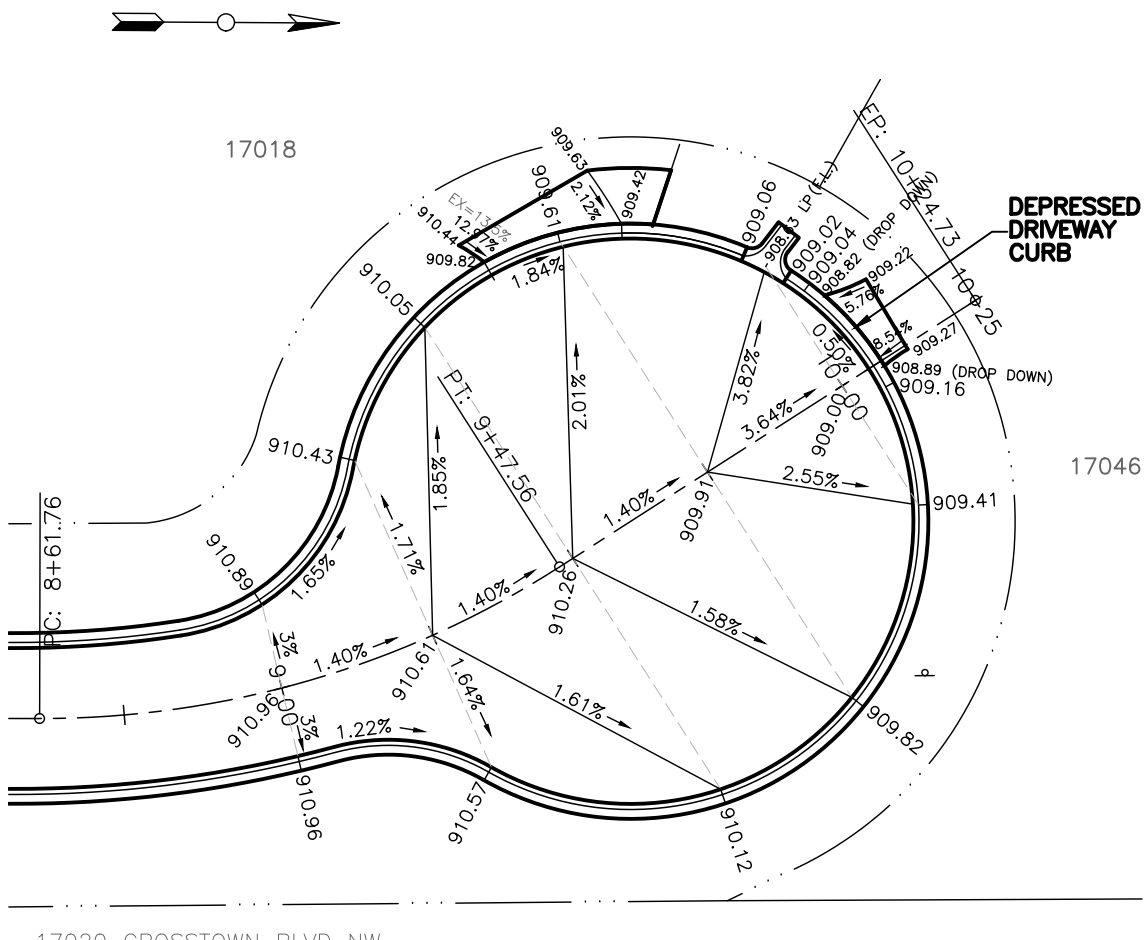




169TH LN NW CUL DE SAC

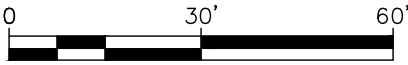


170TH LN NW/DOGWOOD ST NW



DOGWOOD ST NW CUL DE SAC

NOTE:
CURB ELEVATIONS ARE TO TOP BACK OF CURB UNLESS NOTED.
STREET ELEVATIONS ARE TO FINISHED GRADE.



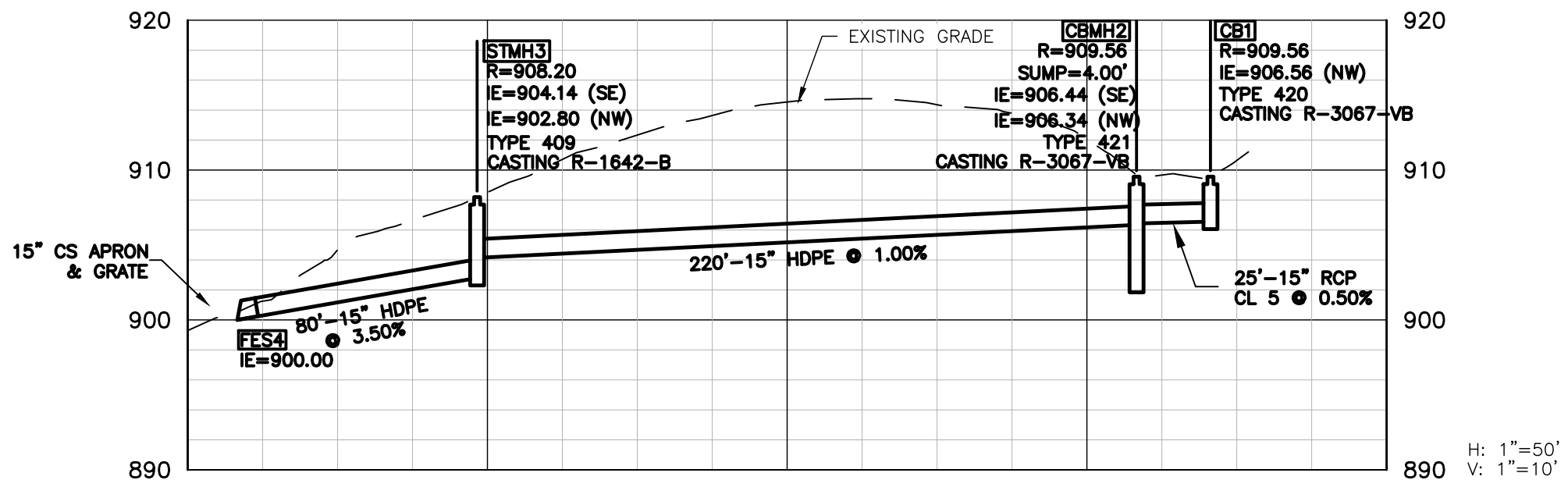
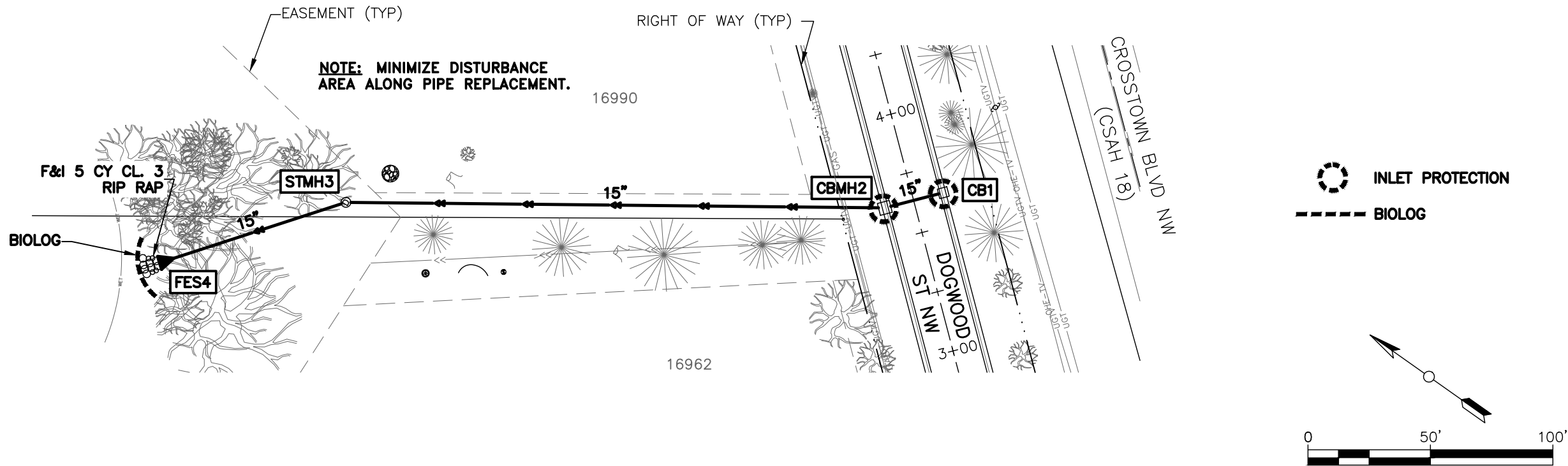
NO.	DATE	BY	DESCRIPTION OF REVISIONS

DESIGNED JJL	DRAWN JAK
CHECKED DDB	SIGNATURE <i>David D. Berkowitz</i> DATE 3/3/2026
	LIC. NO. 26757



2026 STREET RECONSTRUCTION
LEEMAN LAKE ESTATES
CITY PROJECT 26-02E

INTERSECTION DETAILS
SHEET NO. 13 OF 46 SHEETS



NO.	DATE	BY	DESCRIPTION OF REVISIONS

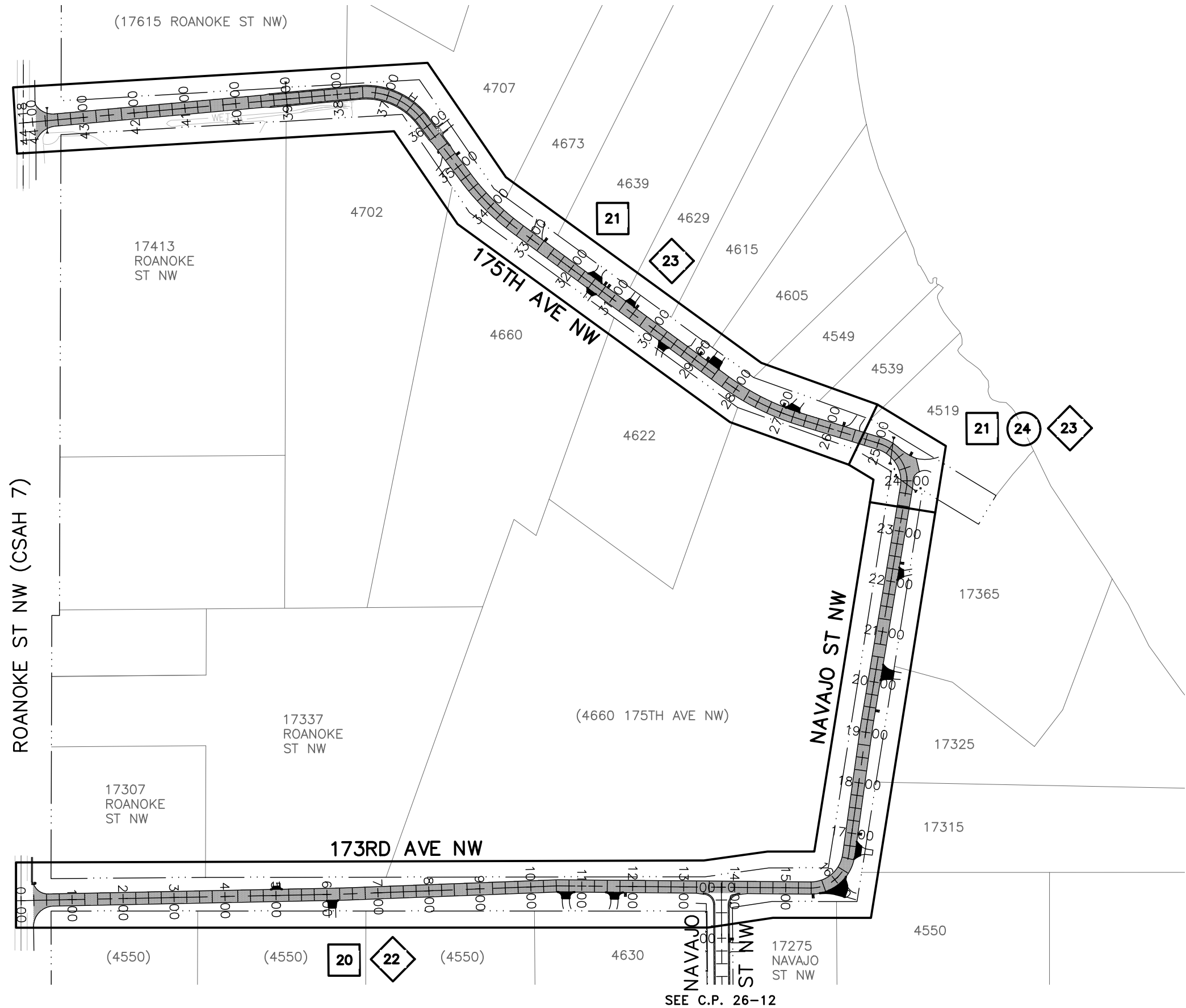
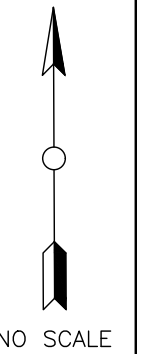
DESIGNED JJL	DRAWN JAK
CHECKED DDB	SIGNATURE <i>David D. Berkowitz</i> DATE 3/3/2026 LIC. NO. 26757
	DAVID D. BERKOWITZ TYPED OR PRINTED NAME



2026 STREET RECONSTRUCTION
LEEMAN LAKE ESTATES
CITY PROJECT 26-02E

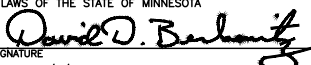
STORM SEWER
SHEET NO. 14 OF 46 SHEETS

- XX** = REMOVALS
- XX** = STORM SEWER
- XX** = STREET & RESTORATION



SEE C.P. 26-12

NO.	DATE	BY	DESCRIPTION OF REVISIONS

DESIGNED JJL	DRAWN JAK
CHECKED DDB	
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 3/3/2026 LIC. NO. 26757	
DAVID D. BERKOWITZ TYPED OR PRINTED NAME	



2026 FULL DEPTH RECLAIM
173RD AVE NW/NAVAJO ST NW/175TH AVE NW
CITY PROJECT 26-11A

PROJECT LAYOUT
SHEET NO. 15 OF 46 SHEETS

2026 Full Depth Reclamation: 173rd Ave / Navajo St / 175th Ave
City Project: 26-11A
STATEMENT OF ESTIMATED QUANTITIES

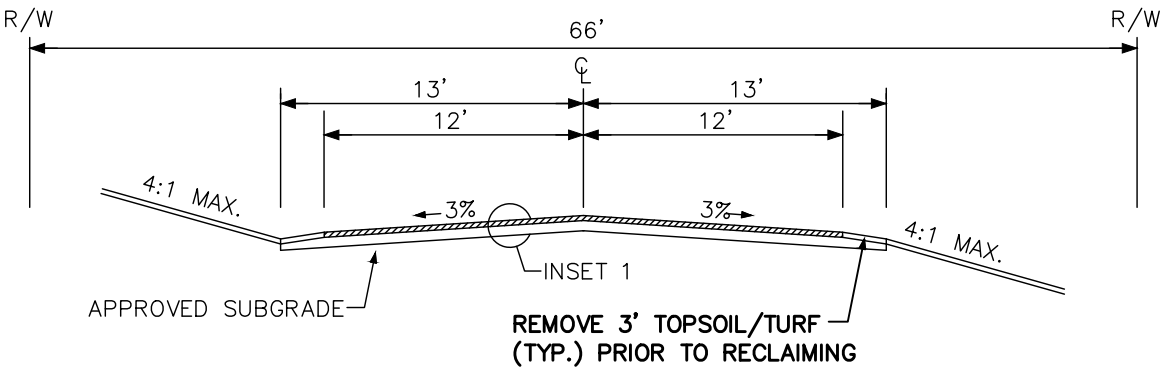
					TOTAL ESTIMATED PROJECT QUANTITIES	
NOTES	ITEM NO.		DESCRIPTION	UNIT	EST. QUAN.	ACT. QUAN.
	101	2021.501	Mobilization	LS	1.00	
1	102	2104.503	Sawing Bit Pavement (Full Depth)	LF	460	
	103	2104.503	Remove Pipe Culvert / Storm Sewer	LF	110	
1	104	2104.518	Remove Bituminous Pavement	SF	4,160	
2	105	2105.607	Common Excavation (EV)	CY	260	
3	106	2105.607	Subgrade Excavation (EV)	CY	30	
4	107	2105.607	Salvage Reclaim Material (LV)	CY	650	
5	108	2112.519	Subgrade Preparation	RDST	43.8	
6	109	2130.523	Water	MGAL	25	
7	110	2211.509	Aggregate Base Class 5	TN	40	
8	111	2211.607	Place Salvaged Reclaim Material (CV)	CY	40	
	112	2215.504	Full Depth Reclamation	SY	12,280	
	113	2232.504	Mill Bituminous Surface (1.5")	SY	10	
	114	2357.506	Bituminous Material For Tack Coat	Gal	620	
	115	2360.509	Type SP 9.5 Wearing Course Mix (2,C)	TN	1,140	
9	116	2360.509	Type SP 9.5 Bit Mix for Patching (2,B)	TN	130	
	117	2360.509	Type SP 12.5 Wearing Course Mixture (2,C)	TN	1,180	
	118	2501.502	18" RC Pipe Apron & Grate	EA	4	
	119	2501.503	18" RC Pipe Culvert Class V Des 3006	LF	80	
10	120	2503.603	Clean & Televis Storm Sewer and Culverts	LF	104	
11	121	2504.602	Irrigation System Modifications	EA	50	
12	122	2506.602	Mud Existing Casting Rings	EA	2	
13	123	2506.602	Mud Doghouse	EA	2	
	124	2511.507	Random Riprap Class III	CY	5	
	125	2563.601	Traffic Control	LS	1.00	
	126	2573.502	Storm Drain Inlet Protection	EA	2	
	127	2573.503	Sediment Control Log Type Wood Chip	LF	600	
	128	2573.607	Rock Ditch Check - 1.5" Nom. Diameter	CY	5	
	129	2574.507	Loam Topsoil Borrow (LV)	CY	440	
14	130	2574.508	Fertilizer Type 3	LB	350	
15	131	2575.504	Rolled Erosion Prevention Category 20	SY	400	
16	132	2575.505	Weed Spraying	ACRE	1.00	
	133	2575.505	Seeding	ACRE	1.00	
	134	2575.508	Hydraulic Mulch Matrix	LB	2,500	
	135	2575.508	Seed Residential Turfgrass	LB	200	

BASIS OF ESTIMATED QUANTITIES		
Bituminous Wear Course	120	# / SY / inch
Bituminous Non-Wear Course	120	# / SY / inch
Aggregate Base, Class 5	110	# / SY / inch
Tack Coat	0.05	Gal / SY
Hydraulic Mulch Matrix	2500	# / acre
Fertilizer Type 3 (Analysis 22-5-10)	350	# / acre
Seed Residential Turfgrass	200	# / acre

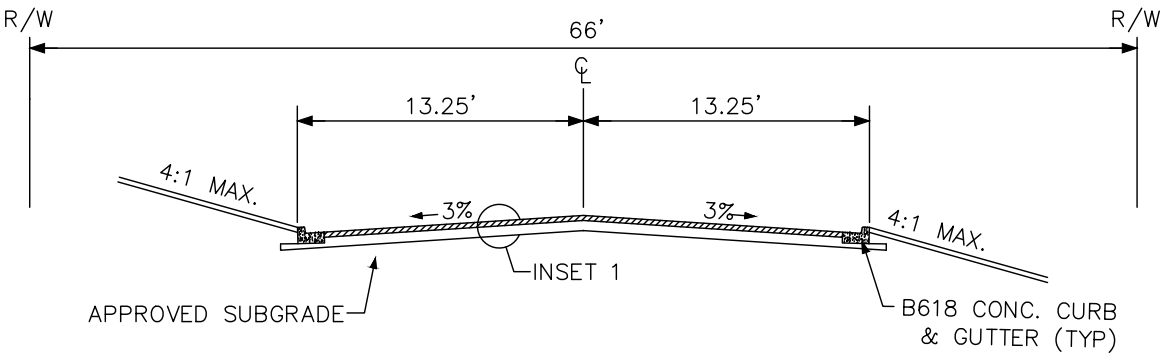
- C.P. 26-11A Notes:**
- Regardless of depth.
 - For all excavation except subgrade excavation. Dispose excess and/or unsuitable material off-site. See Earthwork Tabulation.
 - For exc. beneath reclaimed agg. base where profile lowered or unsuitable material encountered. Dispose excess and/or unsuitable material off-site. See Earthwork Tabulation.
 - For excavating/hauling/stockpiling reclaim material salvaged for subgrade exc. and/or excess material. Excess property of contractor. See Earthwork Tabulation.
 - Includes grading reclaim material from areas of excess to areas requiring material (under curb, along shoulder, increased crown), fine grading, and compacting reclaimed agg. base.
 - For dust control only as directed by the engineer. Water to achieve compaction shall be incidental.
 - Item includes furnishing, hauling, placing and compacting. See Earthwork Tabulation.
 - Includes loading/hauling/placing/grading/compacting salvaged reclaim material in areas of subgrade exc. or correction.
 - Item shall be used for patching of bituminous trails and driveway replacements.
 - Only clean and televise RCP culverts. DIP culverts are not to be televised.
 - Based upon number or irrigation heads removed / replaced. Item shall include all items necessary to temporarily cap existing systems, replace damaged lines, heads, adjust systems, and return them to pre-project condition or better. Work shall be performed by a licensed irrigation contractor.
 - Protect casting, touch up mud on existing concrete adjustment rings inside structure.
 - Item shall include regrouting all doghouses within structure. The "Each" item refers to each structure regardless of the number of doghouses in the structure.
 - Analysis 22-5-10.
 - Straw or wood fiber blanket is an acceptable alternative. Netting material shall be jute netting.
 - Only to be used if requested by engineer prior to or during site restoration.

RECLAIM 8" +/- DEPTH OR
AS NECESSARY TO PROVIDE
A HOMOGENOUS MIXTURE
MEETING GRADATION SPEC.
IN MNDOT 2215 WITH 100%
PASSING THE 3" SIEVE.

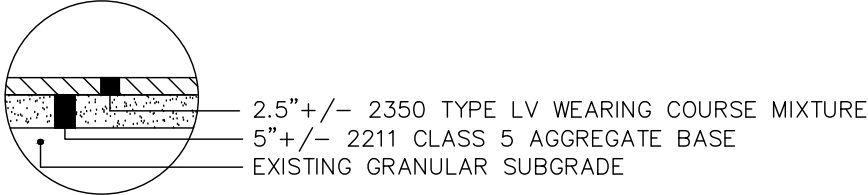
EXISTING



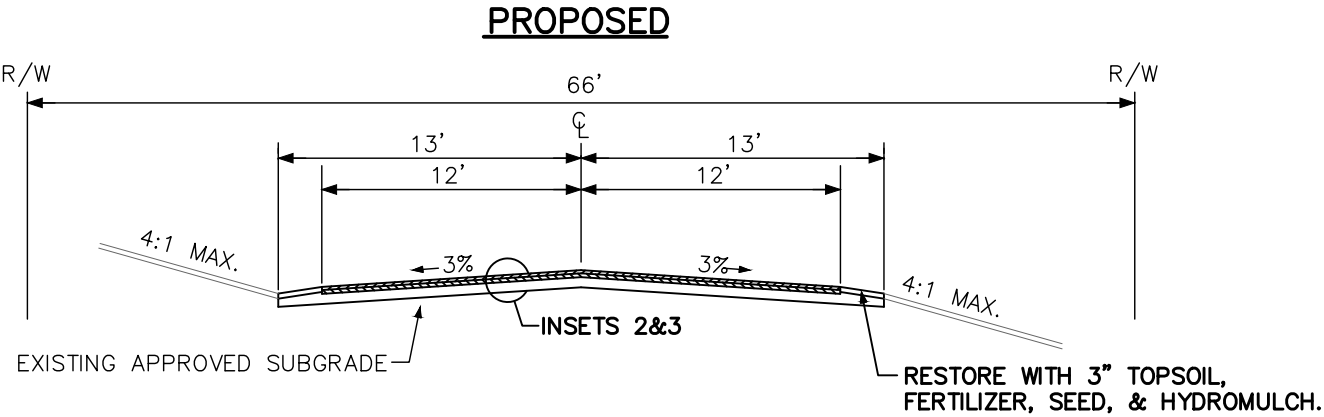
173RD AVE NW/NAVAJO ST NW/175TH AVE NW TYPICAL SECTION
WITHOUT CURB



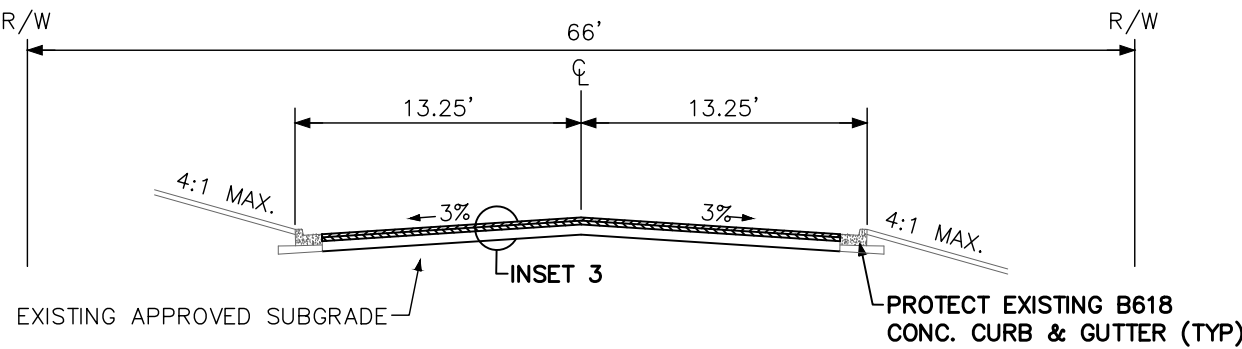
175TH AVE NW TYPICAL SECTION
WITH CURB



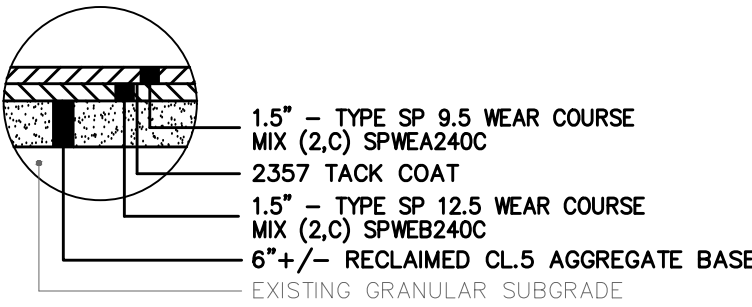
INSET 1



173RD AVE NW/NAVAJO ST NW/175TH AVE NW TYPICAL SECTION
WITHOUT CURB

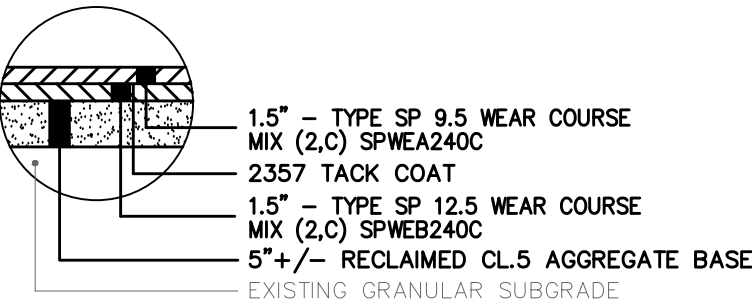


175TH AVE NW TYPICAL SECTION
WITH CURB
(STA 35+40 TO 39+30)



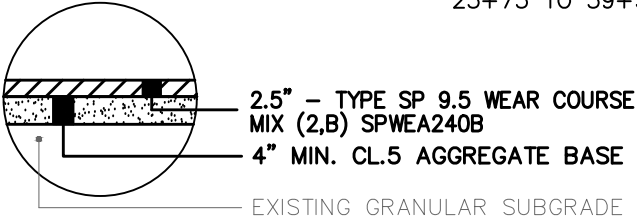
INSET 2

0+24 TO 13+00
14+50 TO 23+75



INSET 3

13+00 TO 14+50 &
23+75 TO 39+30



BITUMINOUS DRIVEWAYS

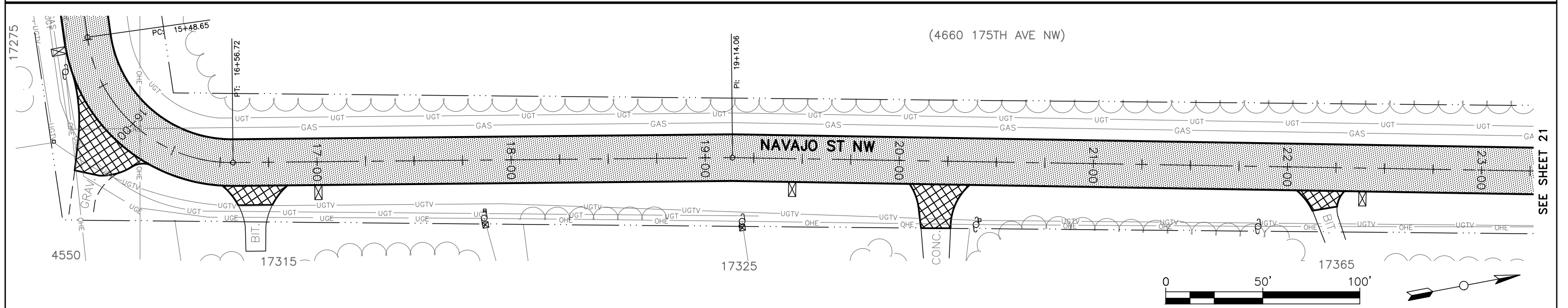
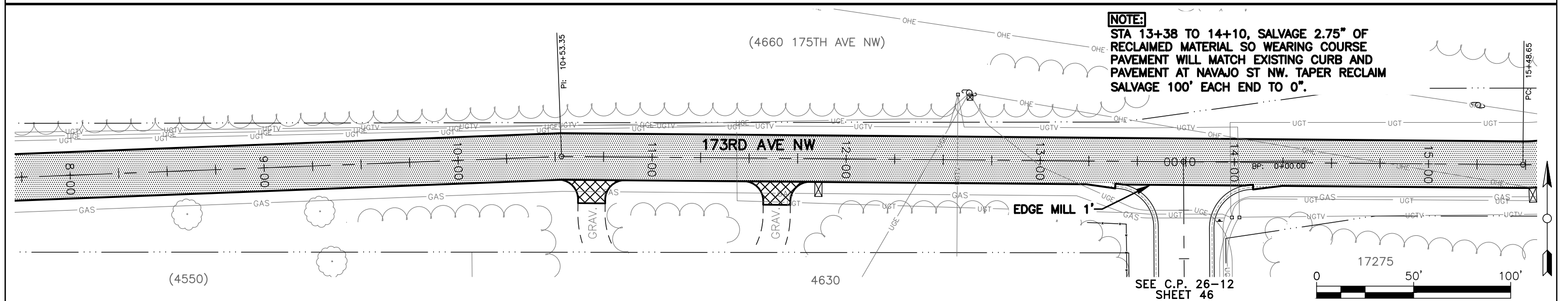
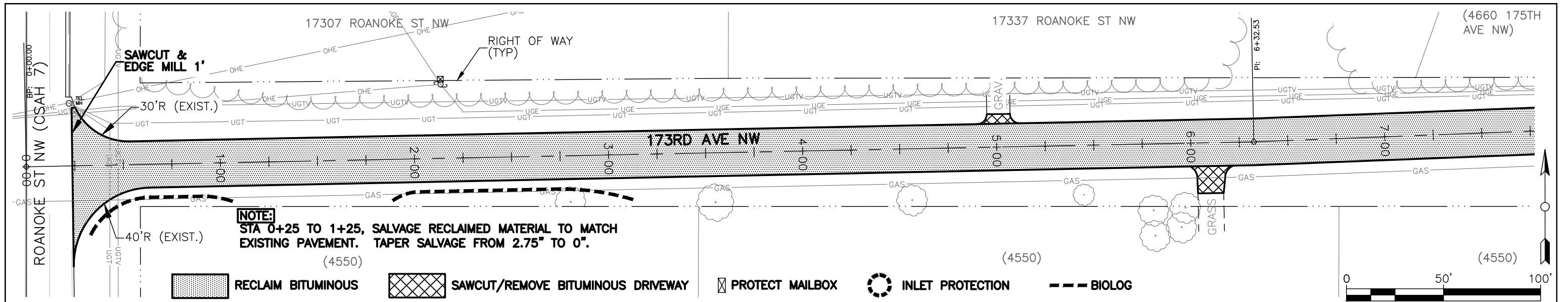
NO.	DATE	BY	DESCRIPTION OF REVISIONS

DESIGNED JJL	DRAWN JAK
CHECKED DDB	SIGNATURE <i>David D. Berkowitz</i> DATE 3/3/2026
	LIC. NO. 226757

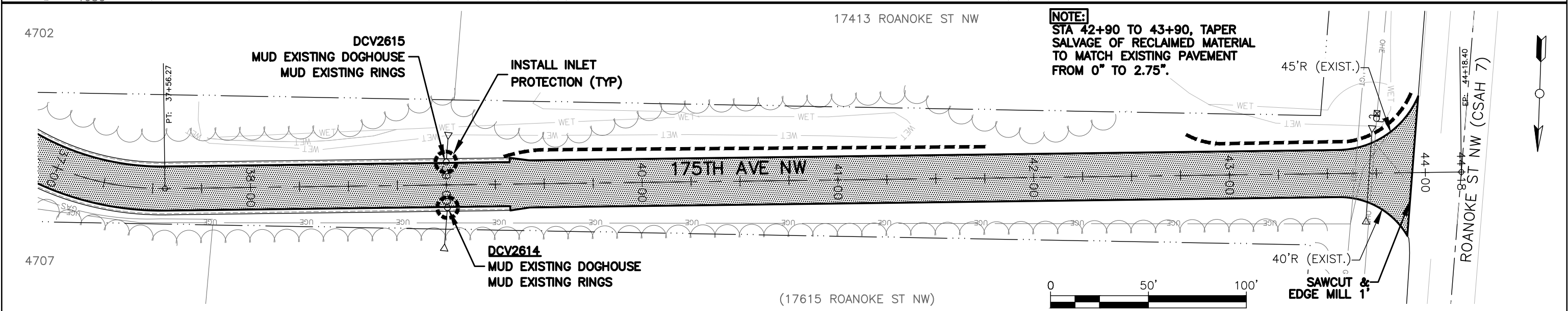
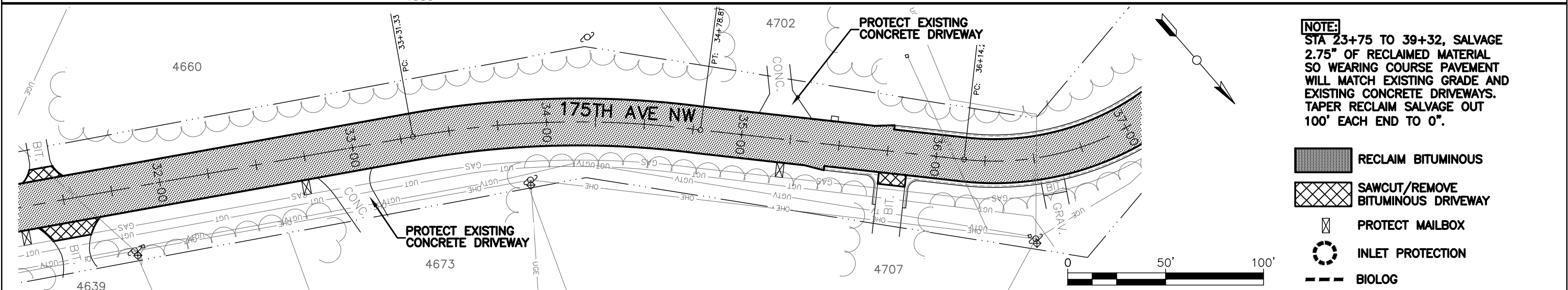
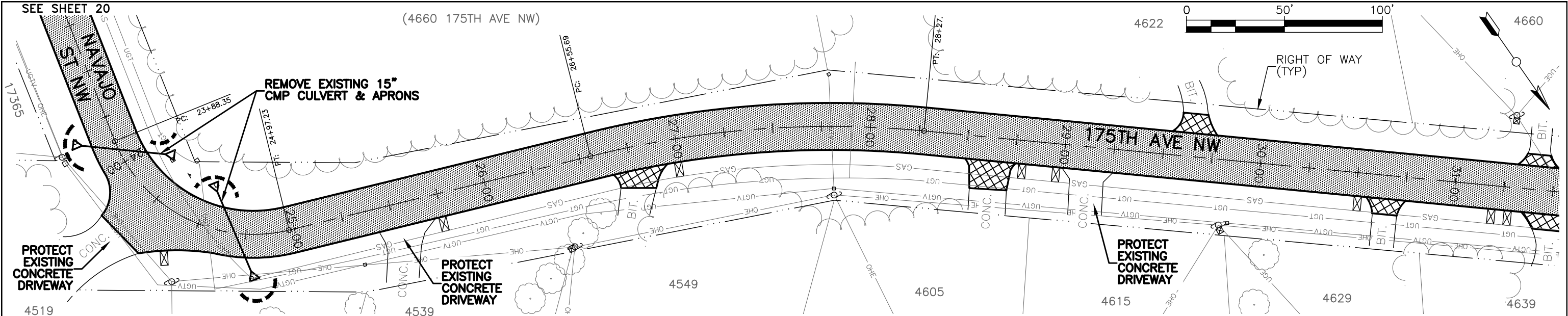


2026 FULL DEPTH RECLAIM
173RD AVE NW/NAVAJO ST NW/175TH AVE NW
CITY PROJECT 26-11A

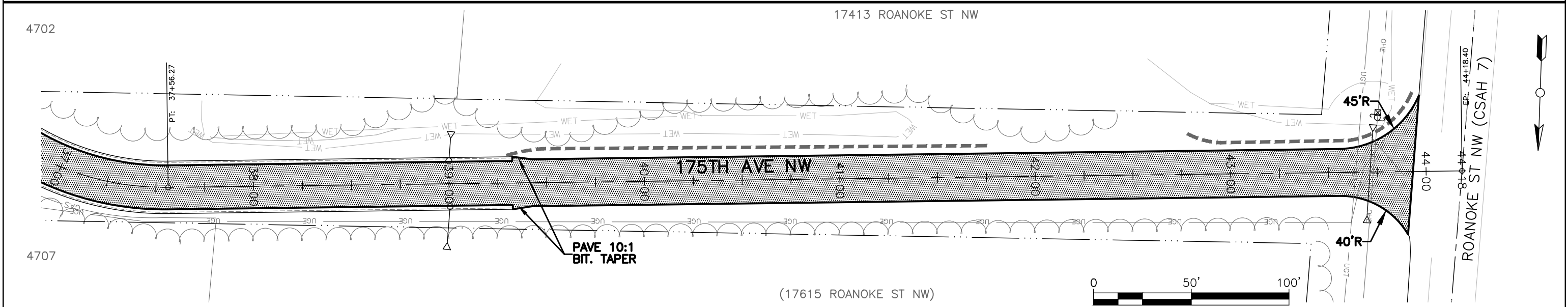
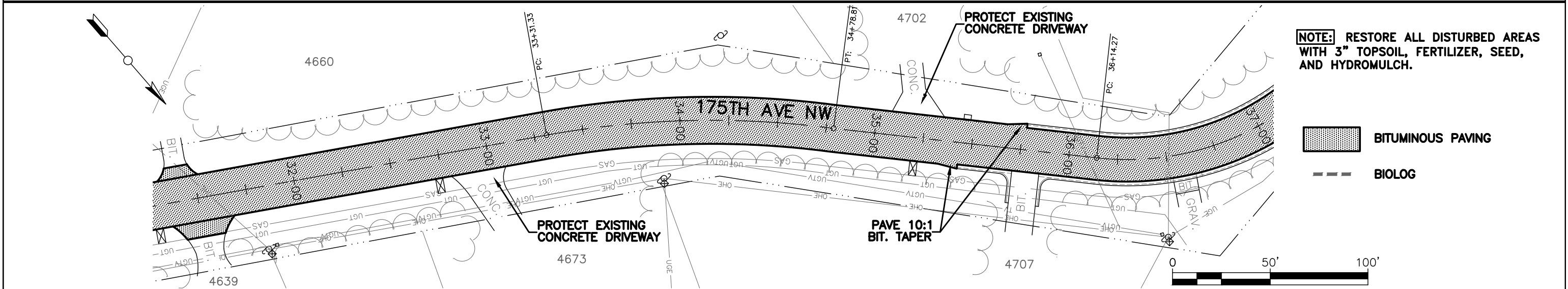
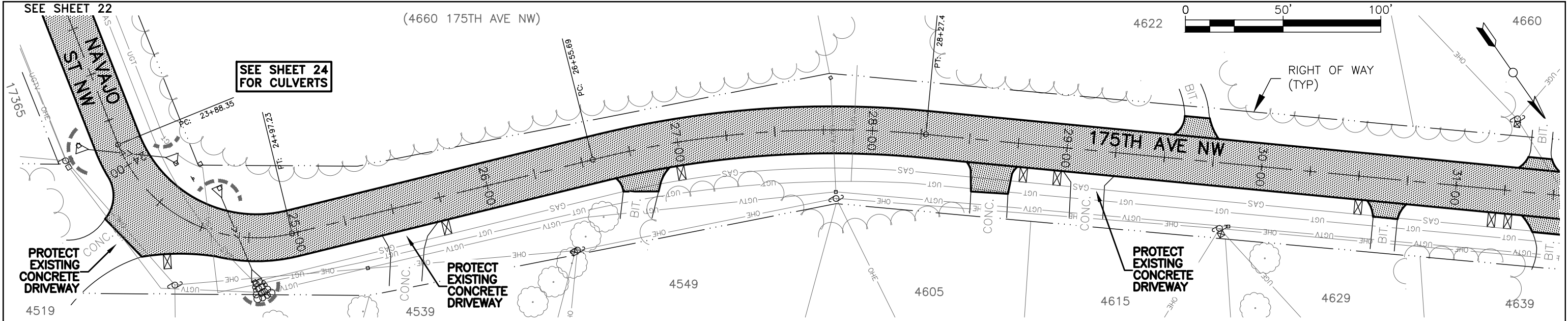
TYPICAL SECTIONS
SHEET NO. 19 OF 46 SHEETS



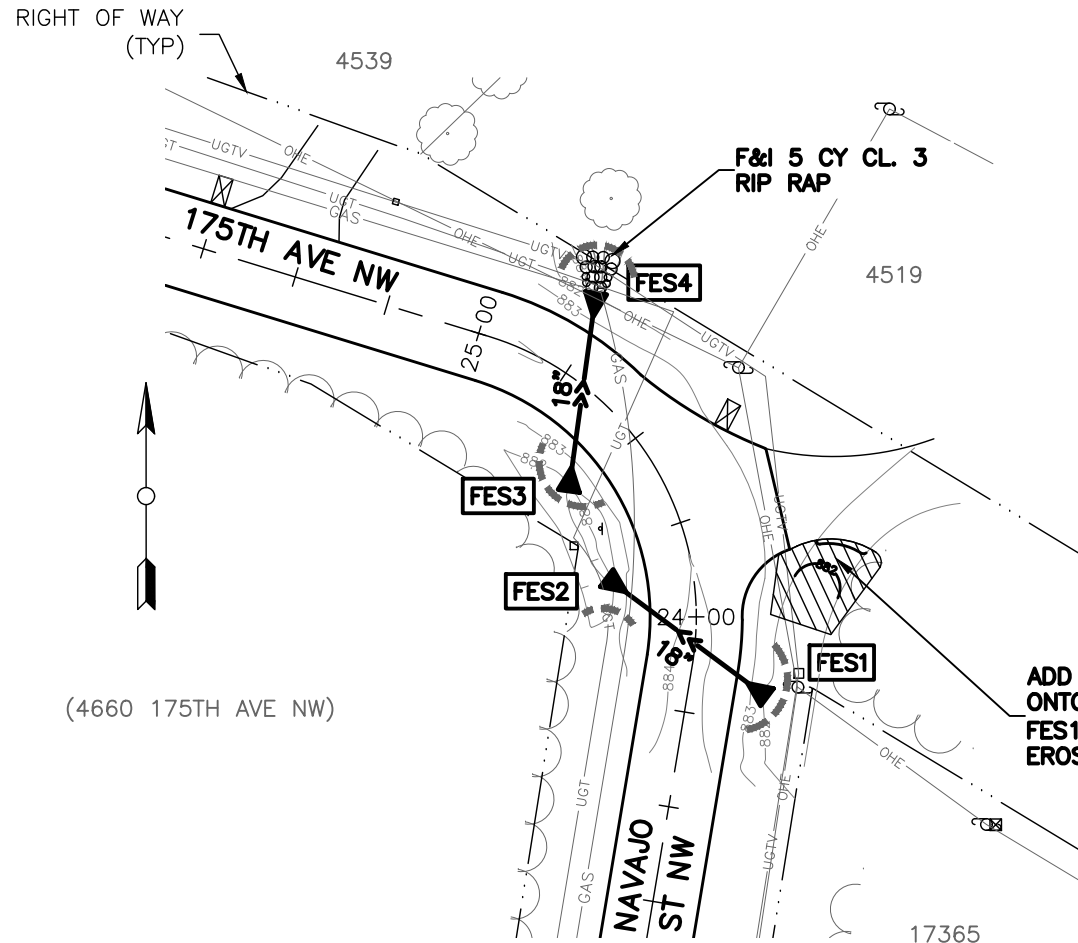
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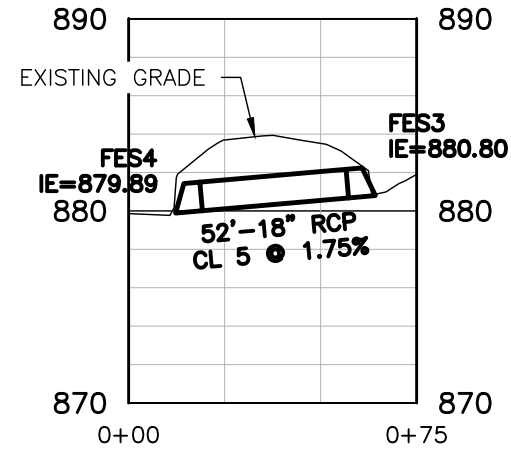
				DESIGNED JJL	DRAWN JAK	I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA David D. Berkowitz DATE 3/3/2026 LIC. NO. 26757		2026 FULL DEPTH RECLAIM 173RD AVE NW/NAVAJO ST NW/175TH AVE NW CITY PROJECT 26-11A	REMOVALS NAVAJO ST NW & 175TH AVE NW 23+25 TO 43+94 SHEET NO. 21 OF 46 SHEETS
NO.	DATE	BY	DESCRIPTION OF REVISIONS	CHECKED DDB					



				DESIGNED JJL	DRAWN JAK	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 <i>David D. Berkowitz</i> DAVID D. BERKOWITZ TYPED OR PRINTED NAME	CITY OF ANDOVER	2026 FULL DEPTH RECLAIM 173RD AVE NW/NAVAJO ST NW/175TH AVE NW CITY PROJECT 26-11A	STREET & RESTORATION NAVAJO ST NW & 175TH AVE NW 23+25 TO 43+94 SHEET NO. 23 OF 46 SHEETS
NO.	DATE	BY	DESCRIPTION OF REVISIONS	CHECKED DDB					
						SIGNATURE DATE 3/3/2026 LIC. NO. 26757			

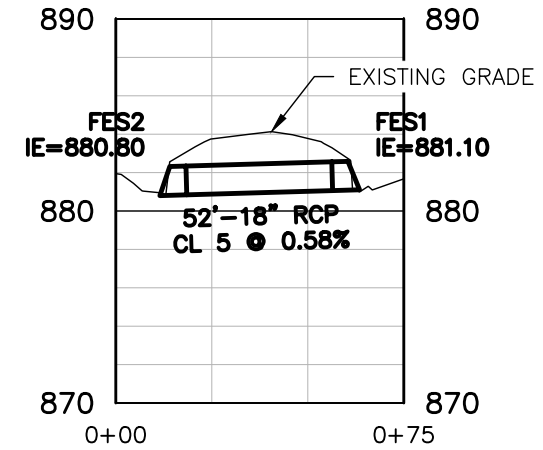


FES4 TO FES3

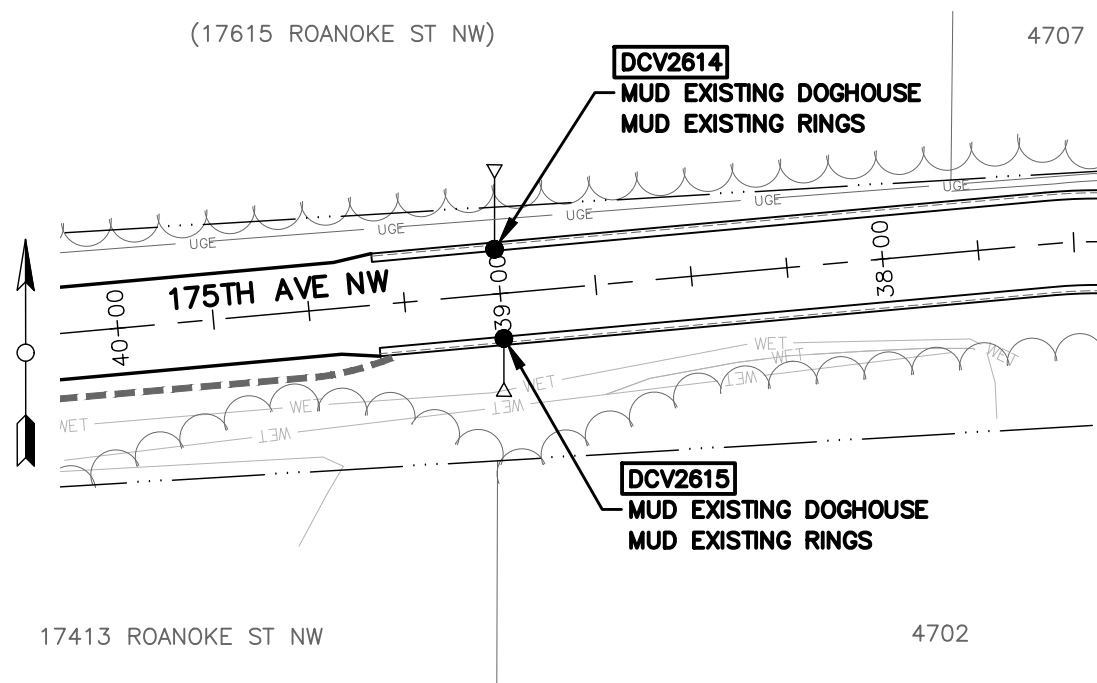


H: 1"=50'
V: 1"=10'

FES2 TO FES1



--- BIOLOG



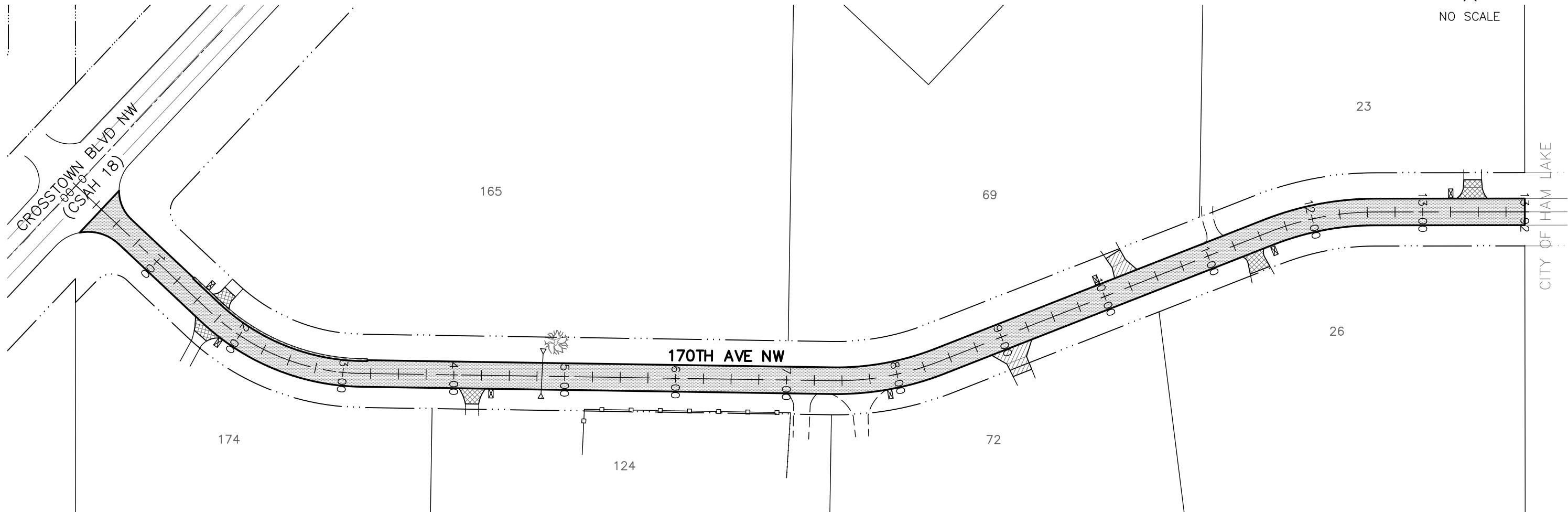
NO.	DATE	BY	DESCRIPTION OF REVISIONS

DESIGNED JJL	DRAWN JAK
CHECKED DDB	SIGNATURE <i>David D. Berkowitz</i>
DATE 3/3/2026	LIC. NO. 26757



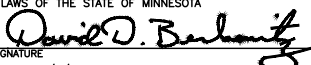
2026 FULL DEPTH RECLAIM
173RD AVE NW/NAVAJO ST NW/175TH AVE NW
CITY PROJECT 26-11A

CULVERT PLAN/PROFILES
SHEET NO. 24 OF 46 SHEETS



REMOVALS – SEE SHEET 30
 STREET & CULVERT PLAN/PROFILE – SEE SHEET 31

NO.	DATE	BY	DESCRIPTION OF REVISIONS

DESIGNED JJL	DRAWN JAK	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  DAVID D. BERKOWITZ TYPED OR PRINTED NAME
CHECKED DDB		
SIGNATURE DATE 3/3/2026 LIC. NO. 26757		



2026 FULL DEPTH RECLAMATION
 BIRCHWOOD POND
 CITY PROJECT 26-11C

PROJECT LAYOUT
 SHEET NO. 25 OF 46 SHEETS

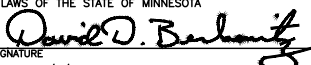
2026 Full Depth Reclamation: Birchwood Pond
City Project: 26-11C
STATEMENT OF ESTIMATED QUANTITIES

					TOTAL ESTIMATED PROJECT QUANTITIES	
NOTES	ITEM NO.		DESCRIPTION	UNIT	EST. QUAN.	ACT. QUAN.
	201	2021.501	Mobilization	LS	1.00	
1	202	2104.503	Sawing Concrete Pavement (Full Depth)	LF	60	
1	203	2104.503	Sawing Bit Pavement (Full Depth)	LF	250	
	204	2104.503	Remove Curb & Gutter	LF	60	
	205	2104.503	Remove Pipe Culvert / Storm Sewer	LF	50	
1	206	2104.518	Remove Concrete Pavement	SF	630	
1	207	2104.518	Remove Bituminous Pavement	SF	1,520	
2	208	2105.607	Common Excavation (EV)	CY	100	
3	209	2105.607	Subgrade Excavation (EV)	CY	30	
4	210	2105.607	Salvage Reclaim Material (LV)	CY	100	
5	211	2112.519	Subgrade Preparation	RDST	13.7	
6	212	2130.523	Water	MGAL	20	
7	213	2211.509	Aggregate Base Class 5	TN	20	
8	214	2211.607	Place Salvaged Reclaim Material (CV)	CY	40	
	215	2215.504	Full Depth Reclamation	SY	3,830	
	216	2232.504	Mill Bituminous Surface (1.5")	SY	10	
	217	2357.506	Bituminous Material For Tack Coat	Gal	190	
	218	2360.509	Type SP 9.5 Wearing Course Mix (2,C)	TN	360	
9	219	2360.509	Type SP 9.5 Bit Mix for Patching (2,B)	TN	60	
	220	2360.509	Type SP 12.5 Wearing Course Mixture (2,C)	TN	370	
	221	2501.502	18" RC Pipe Apron & Grate	EA	2	
	222	2501.503	18" RC Pipe Culvert Des 3006 Class V	LF	40	
	223	2503.603	Clean & Televis Storm Sewer and Culverts	LF	52	
10	224	2504.602	Irrigation System Modifications	EA	25	
	225	2511.507	Random Riprap Class III	CY	3	
	226	2531.503	Concrete Curb and Gutter B612	LF	60	
	227	2531.504	6" Concrete Driveway Pavement	SY	70	
	228	2563.601	Traffic Control	LS	1.00	
	229	2573.503	Sediment Control Log Type Wood Chip	LF	530	
	230	2574.507	Loam Topsoil Borrow (LV)	CY	170	
11	231	2574.508	Fertilizer Type 3	LB	105	
12	232	2575.504	Rolled Erosion Prevention Category 20	SY	200	
13	233	2575.505	Weed Spraying	ACRE	0.30	
	234	2575.505	Seeding	ACRE	0.30	
	235	2575.508	Hydraulic Mulch Matrix	LB	750	
	237	2575.508	Seed Residential Turfgrass	LB	60	

BASIS OF ESTIMATED QUANTITIES		
Bituminous Wear Course	120	# / SY / inch
Bituminous Non-Wear Course	120	# / SY / inch
Aggregate Base, Class 5	110	# / SY / inch
Tack Coat	0.05	Gal / SY
Hydraulic Mulch Matrix	2500	# / acre
Fertilizer Type 3 (Analysis 22-5-10)	350	# / acre
Seed Residential Turfgrass	200	# / acre

- C.P. 26-11C Notes:
- Regardless of depth.
 - For all excavation except subgrade excavation. Dispose excess and/or unsuitable material off-site. See Earthwork Tabulation.
 - For exc. beneath reclaimed agg. base where profile lowered or unsuitable material encountered. Dispose excess and/or unsuitable material off-site. See Earthwork Tabulation.
 - For excavating/hauling/stockpiling reclaim material salvaged for subgrade exc. and/or excess material. Excess property of contractor. See Earthwork Tabulation.
 - Includes grading reclaim material from areas of excess to areas requiring material (under curb, along shoulder, increased crown), fine grading, and compacting reclaimed agg. base.
 - For dust control only as directed by the engineer. Water to achieve compaction shall be incidental.
 - Item includes furnishing, hauling, placing and compacting. See Earthwork Tabulation.
 - Includes loading/hauling/placing/grading/compacting salvaged reclaim material in areas of subgrade exc. or correction.
 - Item shall be used for patching of bituminous trails and driveway replacements.
 - Based upon number or irrigation heads removed / replaced. Item shall include all items necessary to temporarily cap existing systems, replace damaged lines, heads, adjust systems, and return them to pre-project condition or better. Work shall be performed by a licensed irrigation contractor.
 - Analysis 22-5-10.
 - Straw or wood fiber blanket is an acceptable alternative. Netting material shall be jute netting.
 - Only to be used if requested by engineer prior to or during site restoration.

NO.	DATE	BY	DESCRIPTION OF REVISIONS

DESIGNED JJL	DRAWN JAK	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	
CHECKED DDB			DAVID D. BERKOWITZ TYPED OR PRINTED NAME
		SIGNATURE DATE 3/3/2026	LIC. NO. 26757



2026 FULL DEPTH RECLAMATION
BIRCHWOOD POND
CITY PROJECT 26-11C

STATEMENT OF ESTIMATED QUANTITIES
SHEET NO. 26 OF 46 SHEETS

GENERAL NOTES:

THE 2025 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN.
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ROAD WORK AHEAD SIGNS SHALL BE MAINTAINED AT ALL INTERSECTING ROADS TO THE PROJECT. TYPE B CHANNELIZERS SHALL BE USED IN ALL NECESSARY LOCATIONS. TRAIL CLOSED SIGNS ON TYPE III BARRICADES SHALL BE PLACED AT ALL LOCATIONS IMPACTED BY PEDESTRIAN RAMP/SIDEWALK/TRAIL IMPROVEMENTS.

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THE CONTRACTOR SHALL PROTECT, SALVAGE AND REPAIR ALL EXISTING LANDSCAPING IN KIND. THIS SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.

THE FOLLOWING CONSTRUCTION ITEM'S SHALL OCCUR PRIOR TO COMMENCING THE RECLAIMING OPERATION. INSTALL TRAFFIC CONTROL, REMOVE STREET SIGN'S (CITY), INSTALL TEMP. EROSION CONTROL MEASURES, IDENTIFY & CAP IRRIGATION SYSTEMS IN AREAS OF CURB REPLACEMENT, SALVAGE LANDSCAPING, REMOVE EX. & INSTALL TEMP. MAILBOX'S WHERE IDENTIFIED IN PLANS.

MACHINE CURB ON STRETCHES OVER 100'. ALSO, SALVAGE AND INSTALL MAILBOXES IN AREAS WHERE THERE WILL BE MACHINE CURB.

EXISTING DRIVEWAYS SHALL BE SAWCUT AS DIRECTED BY ENGINEER, REMOVED AND DISPOSED OF OFF SITE . BITUMINOUS AND CONCRETE DRIVEWAYS SHALL BE REPLACED IN KIND. GRAVEL DRIVEWAYS SHALL BE REPLACED WITH A 10–15' BITUMINOUS APRON. ANY DAMAGE CAUSED BY CONSTRUCTION ACTIVITY SHALL BE SAWCUT AND REPAIRED IN KIND AT THE CONTRACTORS EXPENSE.

WHERE SUBGRADE EXCAVATION AND/OR UTILITY WORK OCCURS WITHIN THE ROADWAY THE RECLAIMED BASE SHALL BE SALVAGED & REPLACED PER THE TYPICAL SECTION (INCIDENTAL). THIS WORKSHALL BE DONE IN A MANNER SO RECLAIMED BASE IS NOT CONTAMINATED WITH SPOIL MATERIAL. COMPACTION OF THE RECLAIMED BASE MATERIAL SHALL BE ACHIEVED BY THE PENETRATION INDEX METHOD IN ACCORDANCE WITH MNDOT 2211.3C3. THE BOTTOM OF THE SUBCUTS SHALL BE SHAPED AND COMPACTED BY THE "QUALITY COMPACTION METHOD"

THE CONTRACTOR SHALL STRIP AND STOCKPILE EXISTING TOPSOIL MATERIAL, IF ANY, FOR RE–USE (LITTLE IS EXPECTED). RE–USED TOPSOIL SHALL BE CLEAN WITH NO SOD CHUNKS / EXISTING VEGETATION. TOPSOIL STRIPING, IF ANY, SHALL BE CONSIDERED INCIDENTAL TO COMMON EXCAVATION.

SELECT EXCAVATED MATERIALS SHALL BE UTILIZED TO THE FULLEST EXTENT WITHIN THE PROJECT LIMITS TO BACKFILL PROPOSED CURB & GUTTERS. ANY EXCESS MATERIAL, OR MATERIAL WITH DEBRIS / SOD CHUCKS SHALL BE DISPOSED OF OFF–SITE.

EXCAVATION AND DISPOSAL OF SOIL/TURF MATERIAL SHALL BE INCIDENTAL TO REMOVAL PAY ITEMS UNLESS OTHERWISE NOTED. CONTRACTOR SHALL MINIMIZE EXCAVATION AND DISTURBANCE ALONG THE PROJECT CORRIDOR.

ALL DISTURBED AREAS SHALL BE BACKFILLED WITH SALVAGED TOPSOIL, IF ANY. DISTURBED AREAS SHALL BE RESTORED WITH TOPSOIL, FERTILIZER, SEED, & HYDRAULIC MULCH MATRIX. ALL RESTORATION SHALL OCCUR WITHIN 7 DAYS OF GRADING COMPLETION. SOIL STOCKPILES SHALL BE STABILIZED WITHIN 7 DAYS OF ROUGH GRADING OR INACTIVITY (INCIDENTAL). TOPSOIL SHALL BE PLACED WITH A SHOULDERING MACHINE & RESTORATION COMPLETED IN AREAS WITH DITCH SECTIONS AFTER PAVING OF WEAR COURSE UNLESS OTHERWISE APPROVED BY THE ENGINEER IN THE FIELD.

ALL EXISTING SIGNS SHALL BE REMOVED AND REPLACED BY THE ANDOVER SIGN DEPARTMENT UNLESS CALLED OUT OTHERWISE IN THE PLANS. COORDINATE WITH MINIMUM 48 HOUR NOTICE WITH ENGINEER IN FIELD.

CONCRETE WASHOUT SHALL BE CONTAINED WITHIN CONCRETE TRUCKS, NOT DISPOSED OF ON–SITE.

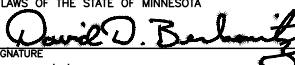
CONTRACTOR SHALL SWEEP ALL MATERIAL OFF ADJACENT STREETS DUE TO CONSTRUCTION ACTIVITY, DAILY AS NECESSARY (INCIDENTAL).

CONTRACTOR IS REQUIRED TO REPAIR AND MAINTAIN ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL PRACTICES (INCIDENTAL).

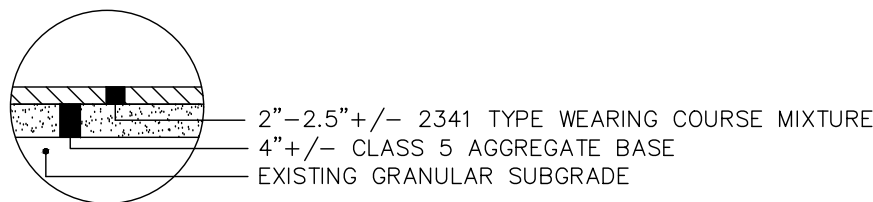
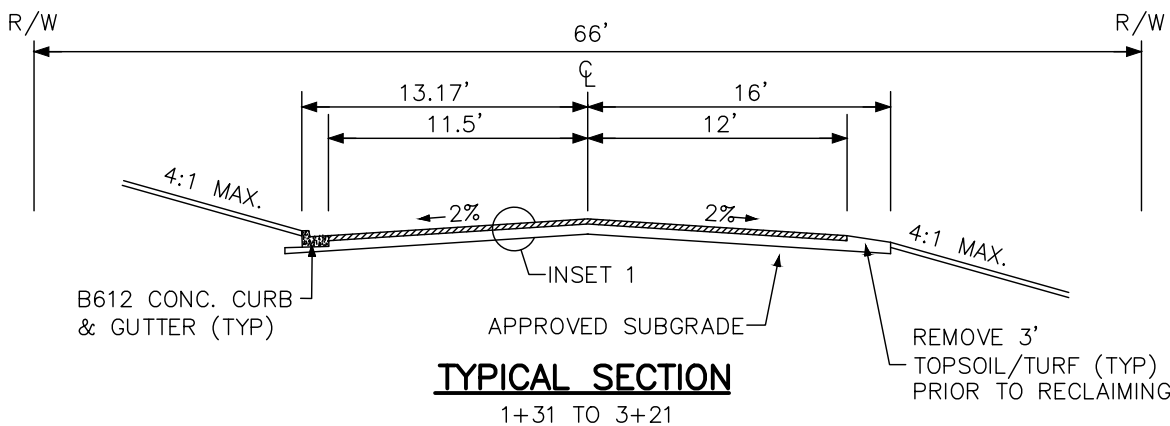
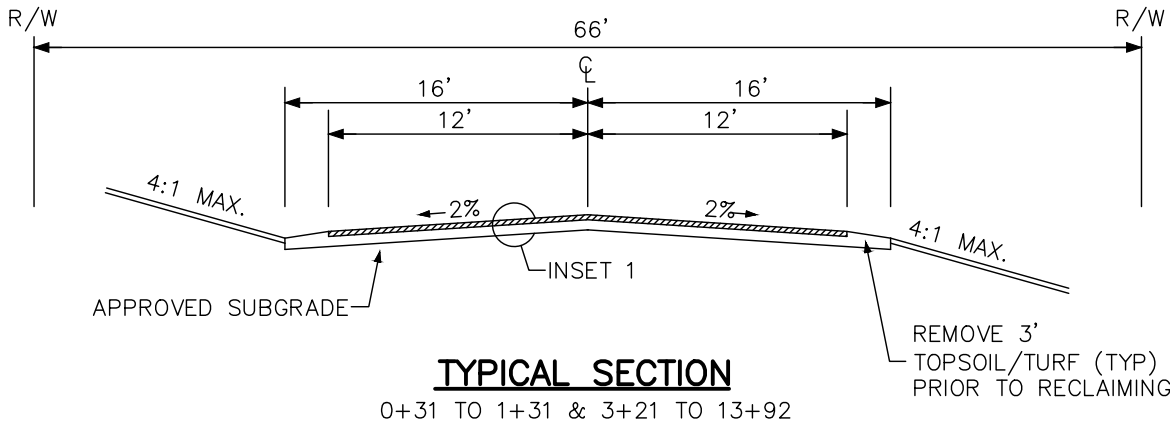
CONTRACTOR SHALL REMOVE ALL TEMPORARY SEDIMENT CONTROL PRACTICES ONCE VEGETATION IS RE–ESTABLISHED (INCIDENTAL).

REFER TO SWPPP IN PROJECT SPECIFICATION FOR ADDITIONAL CONSTRUCTION/EROSION CONTROL REQUIREMENTS.

WHEN CONNECTING NEW PAVED SURFACING TO ANY IN–PLACE PAVEMENTS, CUT VERTICALLY TO THE BOTTOM OF THE IN–PLACE PAVEMENTS OR TO THE BOTTOM OF THE NEW SURFACING, WHICHEVER IS DEEPER, THEN AT 2(V):1(H) SLOPE TO THE TOP OF THE SUBGRADE.

				DESIGNED JJL	DRAWN JAK	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  DAVID D. BERKOWITZ TYPED OR PRINTED NAME DATE 3/3/2026 LIC. NO. 26757		2026 FULL DEPTH RECLAMATION BIRCHWOOD POND CITY PROJECT 26–11C	CONSTRUCTION NOTES	
				CHECKED DDB						
NO.	DATE	BY	DESCRIPTION OF REVISIONS						SHEET NO. 28 OF 46 SHEETS	

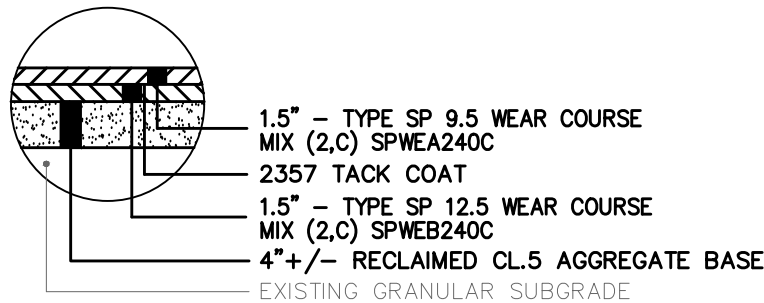
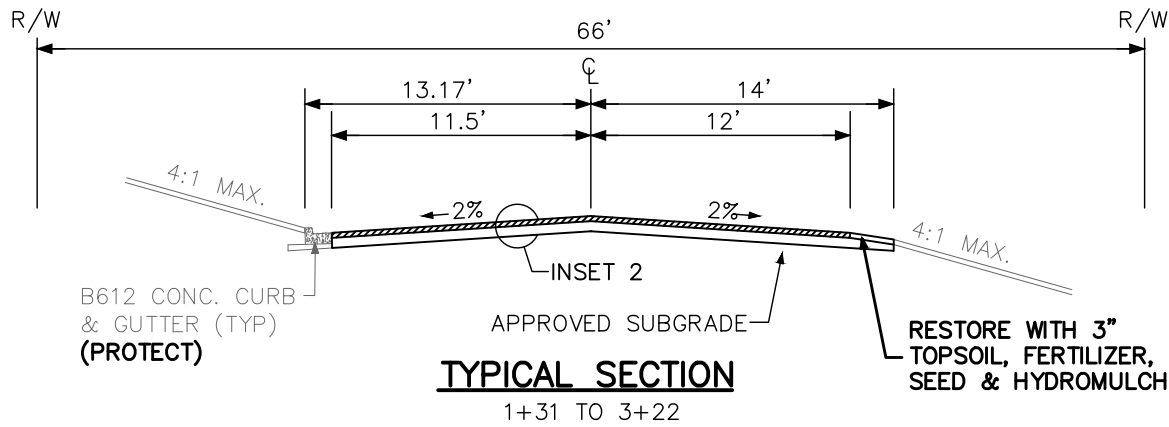
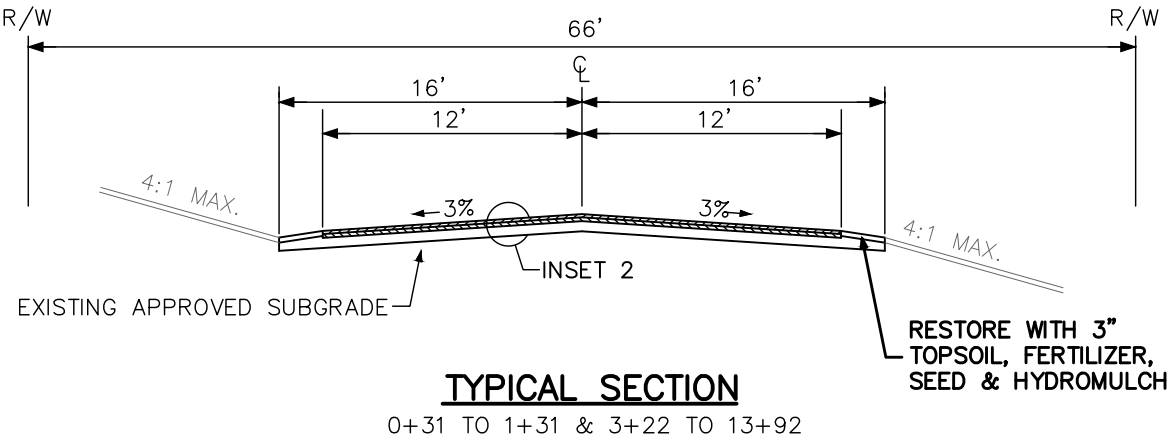
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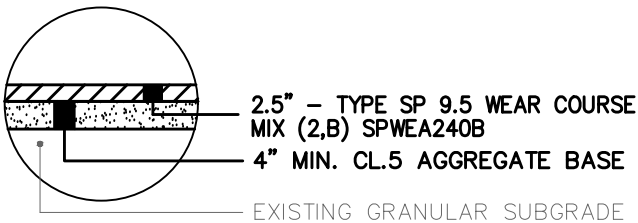
INSET 1

NOTE:
RECLAIM 7" +/- DEPTH OR AS NECESSARY TO PROVIDE A HOMOGENOUS MIXTURE MEETING GRADATION SPECIFICATION IN MnDOT 2215 WITH 100% PASSING A 3" SIEVE.

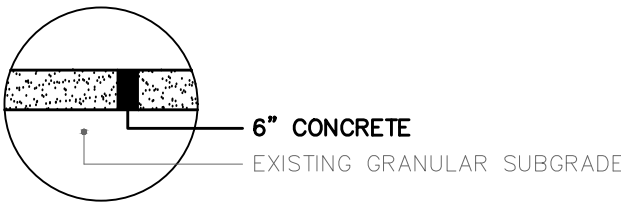
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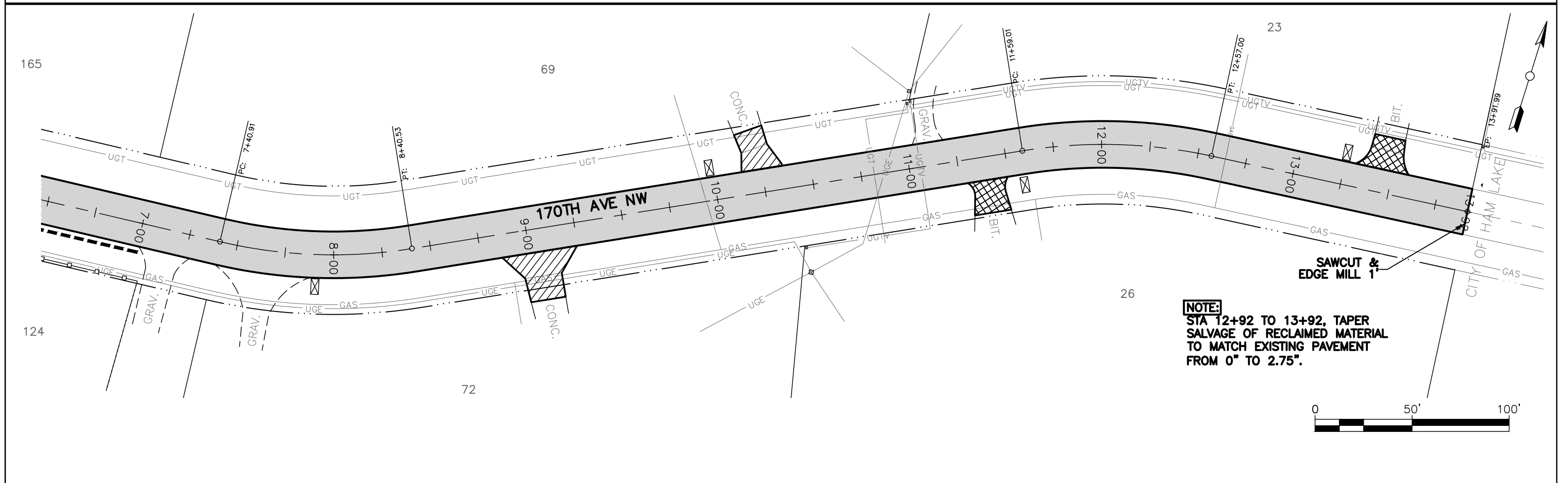
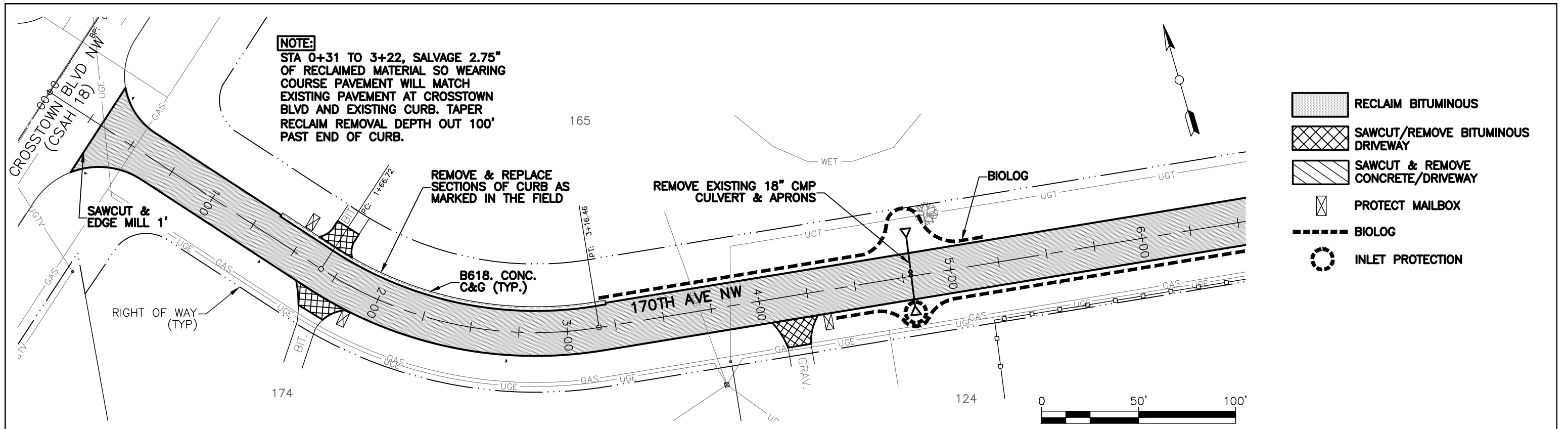
INSET 2



BITUMINOUS DRIVEWAYS



CONCRETE DRIVEWAYS



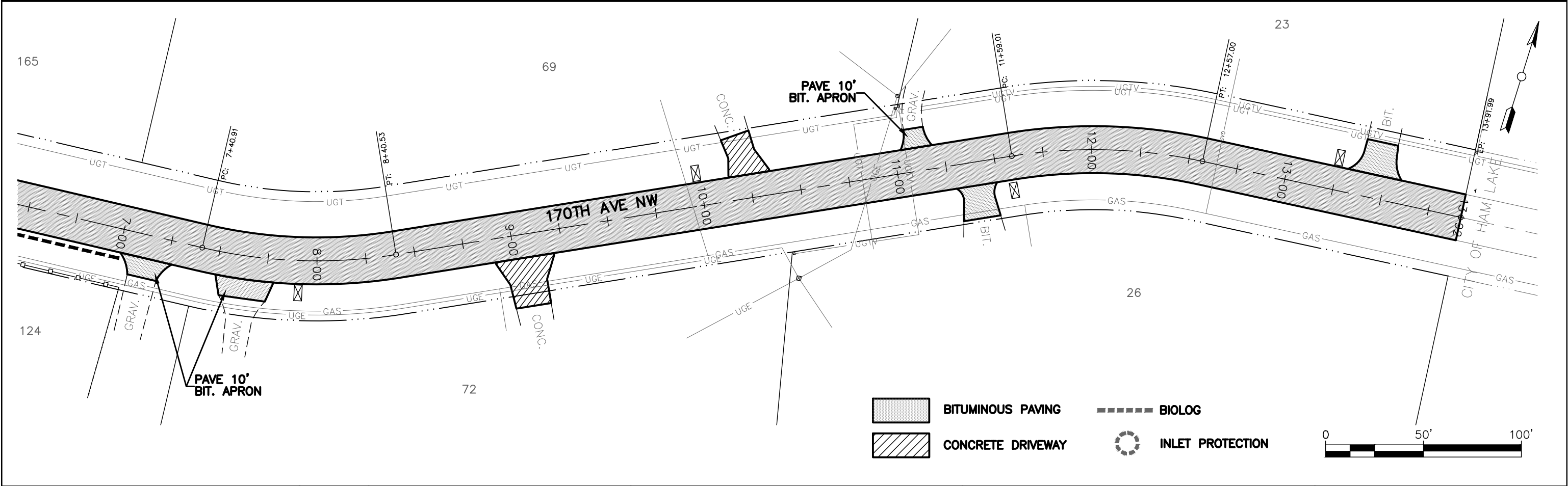
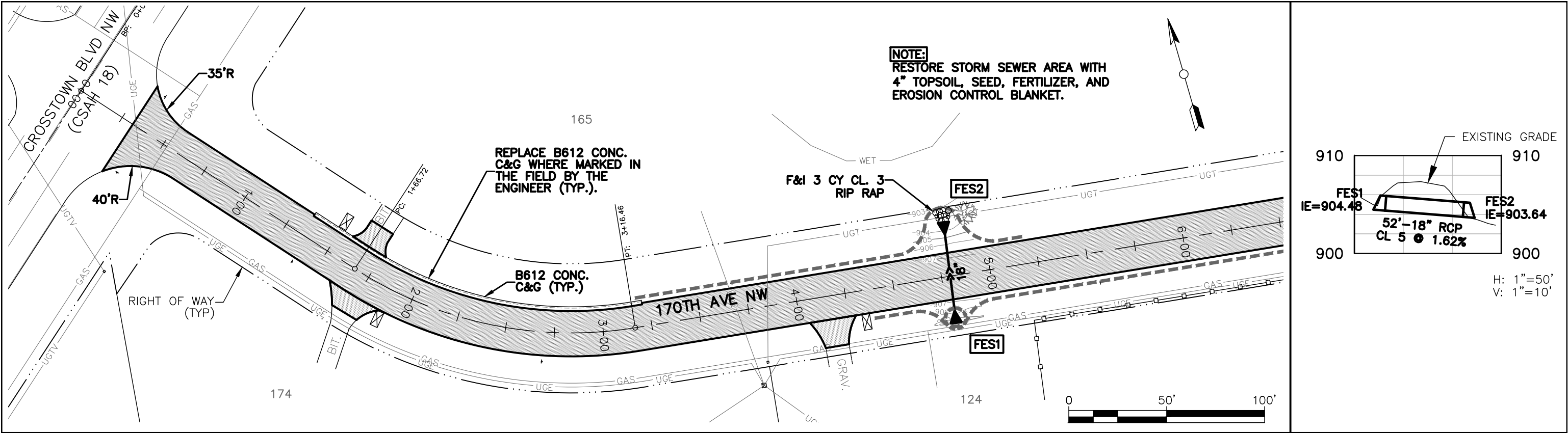
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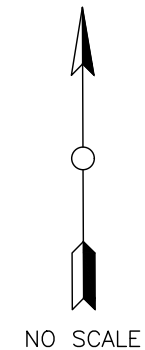
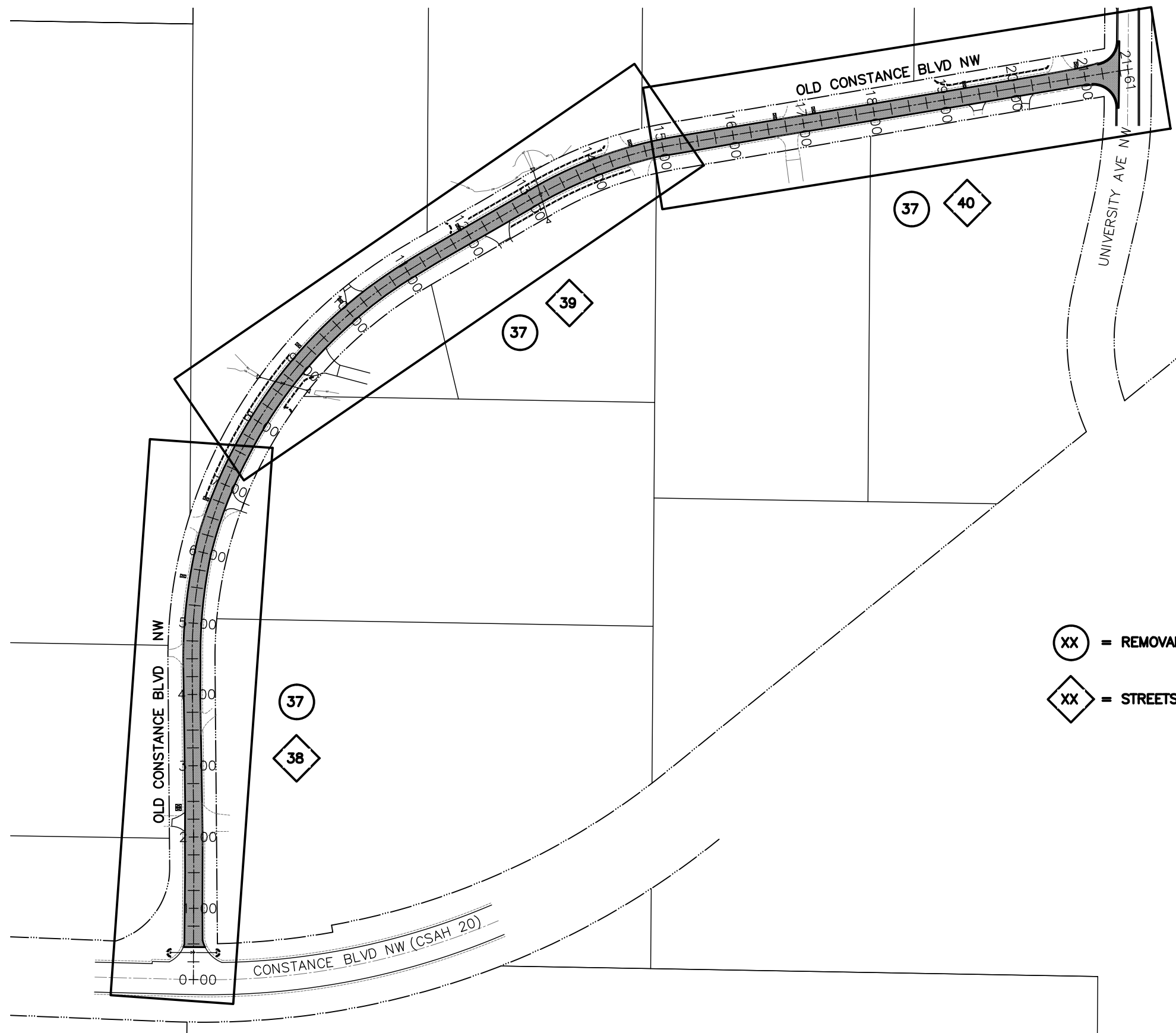
DESIGNED JJL	DRAWN JAK
CHECKED DDB	SIGNATURE <i>David D. Berkowitz</i> DATE 3/3/2026
	DAVID D. BERKOWITZ TYPED OR PRINTED NAME LIC. NO. 26757



2026 FULL DEPTH RECLAMATION
BIRCHWOOD POND
CITY PROJECT 26-11C

REMOVALS
SHEET NO. 30 OF 46 SHEETS

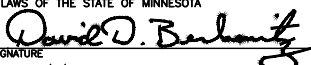




XX = REMOVALS

XX = STREETS

NO.	DATE	BY	DESCRIPTION OF REVISIONS

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CHECKED DDB	
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2026 FULL DEPTH RECLAMATION
OLD CONSTANCE BLVD NW
CITY PROJECT 26-11D

PROJECT LAYOUT
SHEET NO. 32 OF 46 SHEETS

2026 Full Depth Reclamation: Old Constance Blvd
City Project: 26-11D
STATEMENT OF ESTIMATED QUANTITIES

					TOTAL ESTIMATED PROJECT QUANTITIES	
NOTES	ITEM NO.		DESCRIPTION	UNIT	EST. QUAN.	ACT. QUAN.
	301	2021.501	Mobilization	LS	1.00	
1	302	2104.503	Sawing Bit Pavement (Full Depth)	LF	320	
1	303	2104.518	Remove Bituminous Pavement	SF	2,450	
2	304	2104.602	Salvage and Reinstall Mailbox	EA	13	
3	305	2105.607	Common Excavation (EV)	CY	140	
4	306	2105.607	Subgrade Excavation (EV)	CY	20	
5	307	2105.607	Salvage Reclaim Material (LV)	CY	690	
6	308	2112.519	Subgrade Preparation	RDST	21.1	
7	309	2130.523	Water	MGAL	15	
8	310	2211.509	Aggregate Base Class 5	TN	110	
9	311	2211.607	Place Salvaged Reclaim Material (CV)	CY	20	
	312	2215.504	Full Depth Reclamation	SY	5,910	
	313	2232.504	Mill Bituminous Surface (1.5")	SY	20	
	314	2357.506	Bituminous Material For Tack Coat	Gal	290	
	315	2360.509	Type SP 9.5 Wearing Course Mix (2,C)	TN	550	
10	316	2360.509	Type SP 9.5 Bit Mix for Patching (2,B)	TN	120	
	317	2360.509	Type SP 12.5 Wearing Course Mixture (2,C)	TN	570	
11	318	2504.602	Irrigation System Modifications	EA	5	
	319	2563.601	Traffic Control	LS	1.00	
	320	2573.503	Sediment Control Log Type Wood Chip	LF	900	
	321	2574.507	Loam Topsoil Borrow (LV)	CY	260	
12	322	2574.508	Fertilizer Type 3	LB	175	
13	323	2575.505	Weed Spraying	ACRE	0.50	
	324	2575.505	Seeding	ACRE	0.50	
	325	2575.508	Hydraulic Mulch Matrix	LB	1,250	
	326	2575.508	Seed Residential Turfgrass	LB	100	
	327	2582.503	4" Solid Line Paint	LF	4,150	
	328	2582.503	4" Double Solid Line Paint	LF	2,100	

C.P. 26-11D Notes:

1. Regardless of depth.
2. Includes salvage and reinstall of existing mailbox, and temporary placement of mailbox in barrel at each existing location during construction.
3. For all excavation except subgrade excavation. Dispose excess and/or unsuitable material off-site. See Earthwork Tabulation.
4. For exc. beneath reclaimed agg. base where profile lowered or unsuitable material encountered. Dispose excess and/or unsuitable material off-site. See Earthwork Tabulation.
5. For excavating/hauling/stockpiling reclaim material salvaged for subgrade exc. and/or excess material. Excess property of contractor. See Earthwork Tabulation.
6. Includes grading reclaim material from areas of excess to areas requiring material (under curb, along shoulder, increased crown), fine grading, and compacting reclaimed agg. base.
7. For dust control only as directed by the engineer. Water to achieve compaction shall be incidental.
8. Item includes furnishing, hauling, placing and compacting. See Earthwork Tabulation.
9. Includes loading/hauling/placing/grading/compacting salvaged reclaim material in areas of subgrade exc. or correction.
10. Item shall be used for patching of bituminous trails and driveway replacements.
11. Based upon number or irrigation heads removed / replaced. Item shall include all items necessary to temporarily cap existing systems, replace damaged lines, heads, adjust systems, and return them to pre-project condition or better. Work shall be performed by a licensed irrigation contractor.
12. Analysis 22-5-10.
13. Only to be used if requested by engineer prior to or during site restoration.

BASIS OF ESTIMATED QUANTITIES		
Bituminous Wear Course	12C	# / SY / Inch
Bituminous Non-Wear Course	12C	# / SY / Inch
Aggregate Base, Class 5	11C	# / SY / Inch
Tack Coat	0.35	Gal / SY
Hydraulic Mulch Matrix	250C	# / acre
Fertilizer Type 3 (Analysis 22-5-10)	35C	# / acre
Seed Residential Turfgrass	20C	# / acre

City Project 26-11D: Old Constance Blvd

Existing 3.5"-6" +/- of bituminous and 6" +/- aggregate base based on existing typical section
Reclaim 10"-12" +/- deep

Roadway Length = 2,105 LF

Volume of salvaged reclaim material =	0 CY (CV)
Volume of salvaged reclaim material =	3 CY (CV)
Volume of salvaged reclaim material =	451 CY (CV)
Total Salvaged Reclaim =	454 CY (CV)

7" salvage in areas of subgrade / profile lowering	0 LF x 25' wide
7" salvage in areas of subgrade correction, if any	5 LF x 25' wide
2.75" salvage over entire reclaimed area	
Available material to be re-used on-site	

Volume required =	0 CY (CV)
Volume required =	14 CY (CV)
Volume required =	2 CY (CV)
Total Salvaged Reclaim / Class 5 Required	16 CY (CV)

5" minimum - areas of subgrade excavation
Backfill for subgrade correction area (corresponds to assumed correction volume)
5"- areas of subgrade corrections

Volume required =	51 CY (CV)
Total Class 5 Required	51 CY (CV)

Driveway replacements

Volume of subgrade exc. =	0 CY (EV)
Volume of subgrade exc. =	14 CY (EV)
Total Salvaged Reclaim =	14 CY (EV)

Subgrade correction areas. Assume 3' depth in correction areas, if any found.

Volume of common exc. =	17 CY (EV)
Volume of common exc. =	120 CY (EV)
Total Common Excavation =	137 CY (EV)

Miscellaneous excavation for driveway apron replacements
Excavate 3' wide x 3" deep along existing bit edge prior to reclaiming. Haul out and dispose of material.

180 CY (CV)

Length x 2 x 4' wide x 3" deep. Utilize any salvaged material if suitable. Place with shouldering machine.

Salvage Reclaim Material	454 CY (CV)
Volume of salvaged reclaim	690 CY (LV)

20 CY (CV)

For replacement of salvaged reclaim in areas of profile lowering or subgrade correction

Volume of salvaged reclaim material available =	454 CY (CV)
Volume of required reclaim material =	16 CY (CV)
Balance of reclaim material =	438 CY (CV)
	660 CY (LV)

Haul out and dispose of excess. Excess property of contractor

140 CY (EV)

Haul out and dispose of unsuitable and excess material off-site.

20 CY (EV)

Haul out and dispose of unsuitable and excess material off-site.

110 Tons

180 CY (CV)
260 CY (LV)

Place on shoulder with shouldering machine after wear course paved.

580 CY (EV)
760 CY (LV)

Excess reclaim, and assumed 85% of common exc material and subgrade exc material

Swell Factors

$$\overline{\text{EV to LV}} = 1.3$$

LV to CV = 1.4

LV to CV = 1.5 (For reclaimed material)

1 CY Class 5 = 2 tons (147 #/CF)

DESIGNED	DRAWN
JJL	JAK

CHECKED

DDB

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

David B. Smith

SIGNATURE _____

DAVID D. BERKOWITZ
 TYPED OR PRINTED NAME



2026 FULL DEPTH RECLAMATION
OLD CONSTANCE BLVD NW
CITY PROJECT 26-11D

EARTHWORK SUMMARY

SHEET NO. 34 OF 46 SHEETS

[illegible]

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RESIDENTS WILL BE ASKED TO MARK IRRIGATION PRIOR TO CONSTRUCTION. CONTRACTOR SHALL VERIFY LOCATION OF EXISTING SYSTEMS. WHERE BOULEVARD IRRIGATION MODIFICATIONS ARE REQUIRED THE IRRIGATION LINES/HEADS SHALL BE REMOVED & DISPOSED. REMAINING LINES SHALL BE PLUGGED & MARKED. ALL REPLACED IRRIGATION LINES/HEADS SHALL BE WITH NEW COMMERCIAL GRADE MATERIALS. CONTRACTOR WILL BE PAID A UNIT PER HEAD REPLACED. EXISTING LOCATIONS SHOWN ON PLANS ARE ONLY SCHEMATIC. ALL WORK SHALL BE BY AN IRRIGATION CONTRACTOR LICENSED TO WORK IN THE CITY OF ANDOVER.

THE CONTRACTOR SHALL PROTECT, SALVAGE AND REPAIR ALL EXISTING LANDSCAPING IN KIND. THIS SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.

THE FOLLOWING CONSTRUCTION ITEM'S SHALL OCCUR PRIOR TO COMMENCING THE RECLAIMING OPERATION. INSTALL TRAFFIC CONTROL, REMOVE STREET SIGN'S (CITY), INSTALL TEMP. EROSION CONTROL MEASURES, IDENTIFY & CAP IRRIGATION SYSTEMS IN AREAS OF CURB REPLACEMENT, SALVAGE LANDSCAPING, REMOVE EX. & INSTALL TEMP. MAILBOX'S WHERE IDENTIFIED IN PLANS.

EXISTING DRIVEWAYS SHALL BE SAWCUT AS DIRECTED BY ENGINEER, REMOVED AND DISPOSED OF OFF SITE. BITUMINOUS AND CONCRETE DRIVEWAYS SHALL BE REPLACED IN KIND. GRAVEL DRIVEWAYS SHALL BE REPLACED WITH A 10-15' BITUMINOUS APRON. ANY DAMAGE CAUSED BY CONSTRUCTION ACTIVITY SHALL BE SAWCUT AND REPAIRED IN KIND AT THE CONTRACTORS EXPENSE.

WHERE SUBGRADE EXCAVATION AND/OR UTILITY WORK OCCURS WITHIN THE ROADWAY THE RECLAIMED BASE SHALL BE SALVAGED & REPLACED PER THE TYPICAL SECTION (INCIDENTAL). THIS WORKSHALL BE DONE IN A MANNER SO RECLAIMED BASE IS NOT CONTAMINATED WITH SPOIL MATERIAL. COMPACTION OF THE RECLAIMED BASE MATERIAL SHALL BE ACHIEVED BY THE PENETRATION INDEX METHOD IN ACCORDANCE WITH MNDOT 2211.3C3. THE BOTTOM OF THE SUBCUTS SHALL BE SHAPED AND COMPACTED BY THE "QUALITY COMPACTION METHOD"

THE CONTRACTOR SHALL STRIP AND STOCKPILE EXISTING TOPSOIL MATERIAL, IF ANY, FOR RE-USE (LITTLE IS EXPECTED). RE-USED TOPSOIL SHALL BE CLEAN WITH NO SOD CHUNKS / EXISTING VEGETATION. TOPSOIL STRIPING, IF ANY, SHALL BE CONSIDERED INCIDENTAL.

SELECT EXCAVATED MATERIALS SHALL BE UTILIZED TO THE FULLEST EXTENT WITHIN THE PROJECT LIMITS TO BACKFILL PROPOSED CURB & GUTTERS. ANY EXCESS MATERIAL, OR MATERIAL WITH DEBRIS / SOD CHUCKS SHALL BE DISPOSED OF OFF-SITE.

EXCAVATION AND DISPOSAL OF SOIL/TURF MATERIAL SHALL BE INCIDENTAL TO REMOVAL PAY ITEMS UNLESS OTHERWISE NOTED. CONTRACTOR SHALL MINIMIZE EXCAVATION AND DISTURBANCE ALONG THE PROJECT CORRIDOR.

ALL DISTURBED AREAS SHALL BE BACKFILLED WITH SALVAGED TOPSOIL, IF ANY. DISTURBED AREAS SHALL BE RESTORED WITH 4" (MINIMUM) TOPSOIL, SEED, FERTILIZER, AND HYDROMULCH. ALL RESTORATION SHALL OCCUR WITHIN 7 DAYS OF GRADING COMPLETION. SOIL STOCKPILES SHALL BE STABILIZED WITHIN 7 DAYS OF ROUGH GRADING OR INACTIVITY (INCIDENTAL). TOPSOIL SHALL BE PLACED WITH A SHOULDERING MACHINE & RESTORATION COMPLETED IN AREAS WITH DITCH SECTIONS AFTER PAVING OF WEAR COURSE UNLESS OTHERWISE APPROVED BY ENGINEER IN THE FIELD.

ALL EXISTING SIGNS SHALL BE REMOVED AND REPLACED BY THE ANDOVER SIGN DEPARTMENT UNLESS CALLED OUT OTHERWISE IN THE PLANS. COORDINATE WITH MINIMUM 48 HOUR NOTICE WITH ENGINEER IN FIELD.

CONCRETE WASHOUT SHALL BE CONTAINED WITHIN CONCRETE TRUCKS, NOT DISPOSED OF ON-SITE.

CONTRACTOR SHALL SWEEP ALL MATERIAL OFF ADJACENT STREETS DUE TO CONSTRUCTION ACTIVITY, DAILY AS NECESSARY (INCIDENTAL).

INSTALL INLET PROTECTION DEVICES ON ALL STORM SEWER STRUCTURES. PRIOR TO PLACING CASTINGS ON STORM SEWER STRUCTURES THE CONTRACTOR SHALL FOLLOW STANDARD DETAIL IN THE PLANS TO ALLOW FOR INFLOW INTO THE STORM SEWERS. ONCE CASTINGS ARE INSTALLED ON STORM SEWER STRUCTURES THE CONTRACTOR SHALL INSTALL INLET PROTECTION ON ALL STRUCTURES SUCH THAT SEDIMENT IS CAPTURED WITH A HIGH FLOW BYPASS. CLEAN AS NECESSARY.

CONTRACTOR IS REQUIRED TO REPAIR AND MAINTAIN ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL PRACTICES ACCORDING TO THE MPCA BEST MANAGEMENT PRACTICES MANUAL, SWPPP, AND THE MINNESOTA STORM WATER MANUAL (INCIDENTAL).

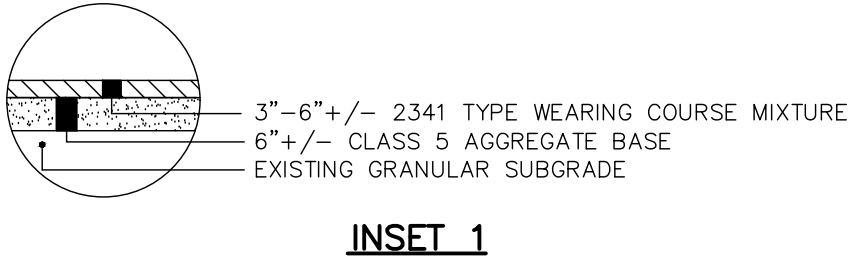
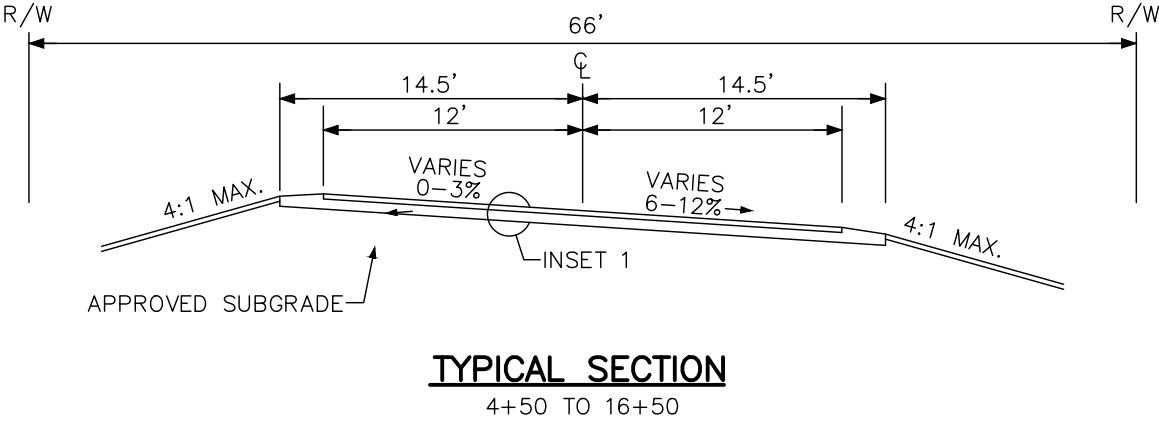
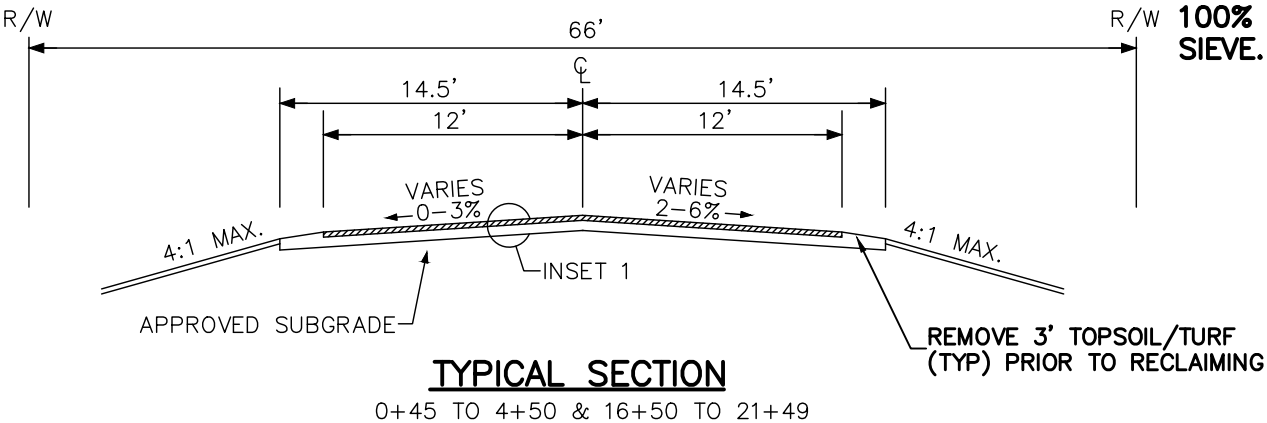
CONTRACTOR SHALL REMOVE ALL TEMPORARY SEDIMENT CONTROL PRACTICES ONCE VEGETATION IS RE-ESTABLISHED (INCIDENTAL).

REFER TO SWPPP IN PROJECT SPECIFICATION FOR ADDITIONAL CONSTRUCTION/EROSION CONTROL REQUIREMENTS.

WHEN CONNECTING NEW PAVED SURFACING TO ANY IN-PLACE PAVEMENTS, CUT VERTICALLY TO THE BOTTOM OF THE IN-PLACE PAVEMENTS OR TO THE BOTTOM OF THE NEW SURFACING, WHICHEVER IS DEEPER, THEN AT 2(V):1(H) SLOPE TO THE TOP OF THE SUBGRADE.

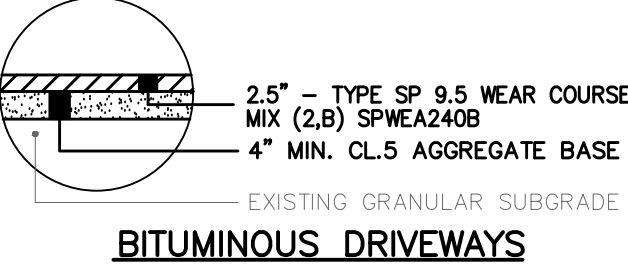
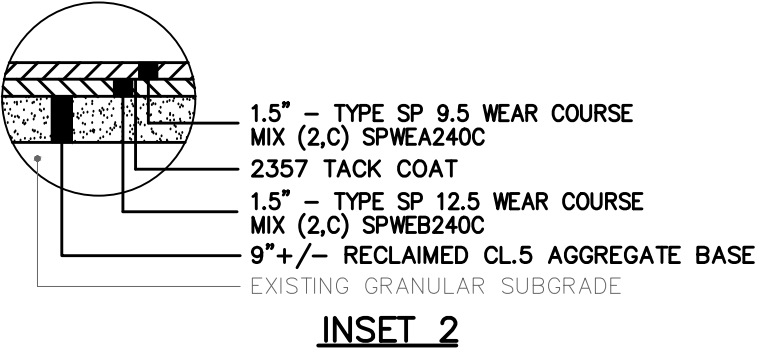
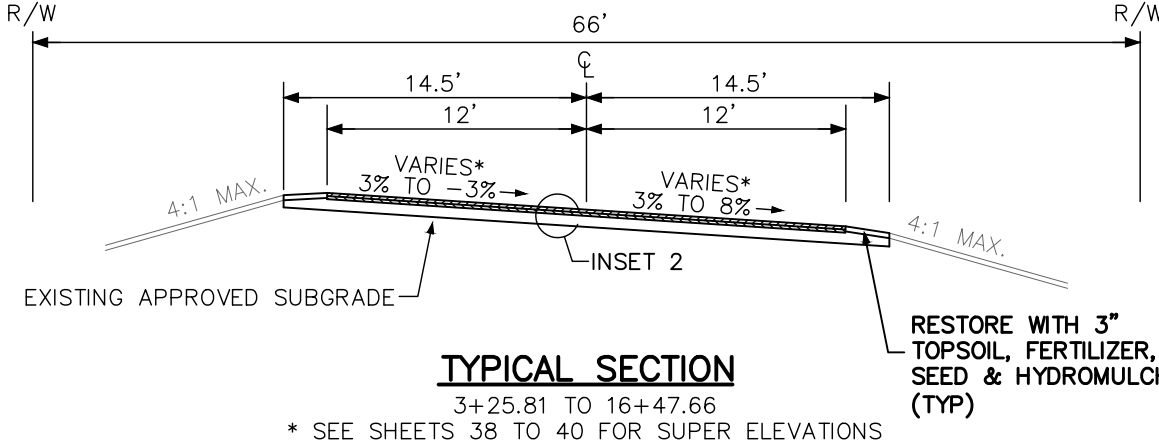
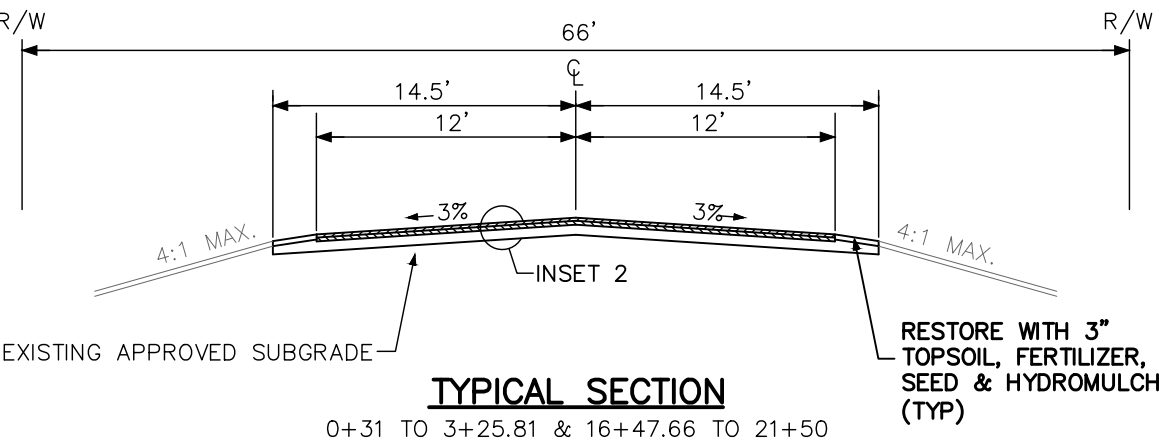
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EXISTING



NOTE:
RECLAIM 12" +/- DEPTH
OR AS NECESSARY TO
PROVIDE A HOMOGENOUS
MIXTURE MEETING
GRADATION SPECIFICATION
IN MnDOT 2215 WITH
100% PASSING A 3" SIEVE.

PROPOSED



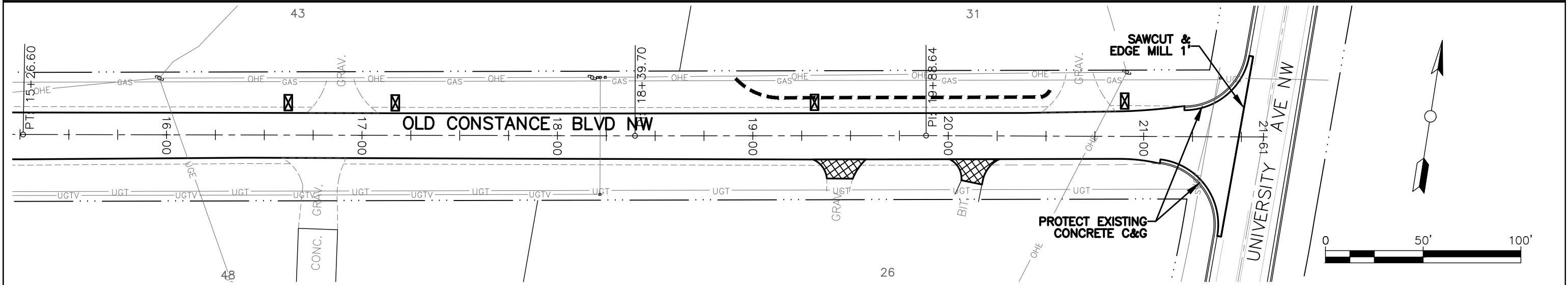
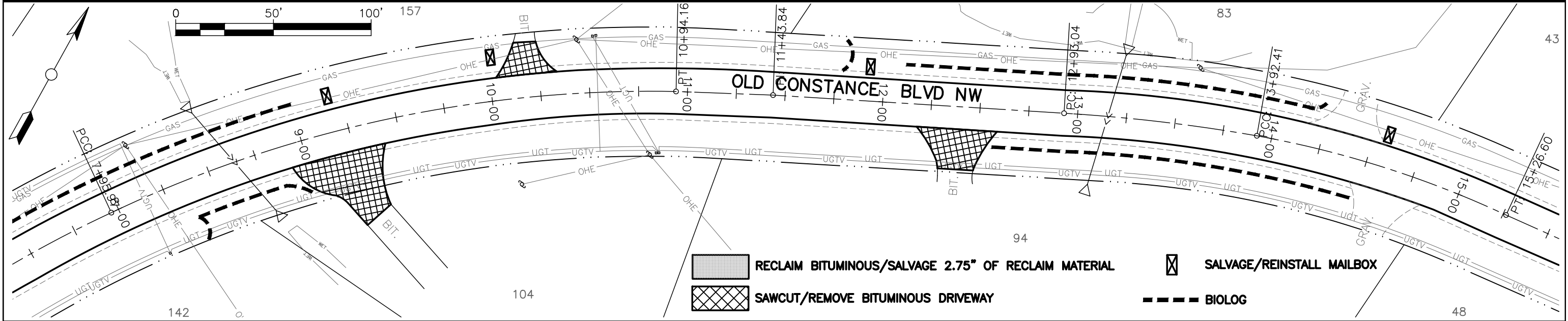
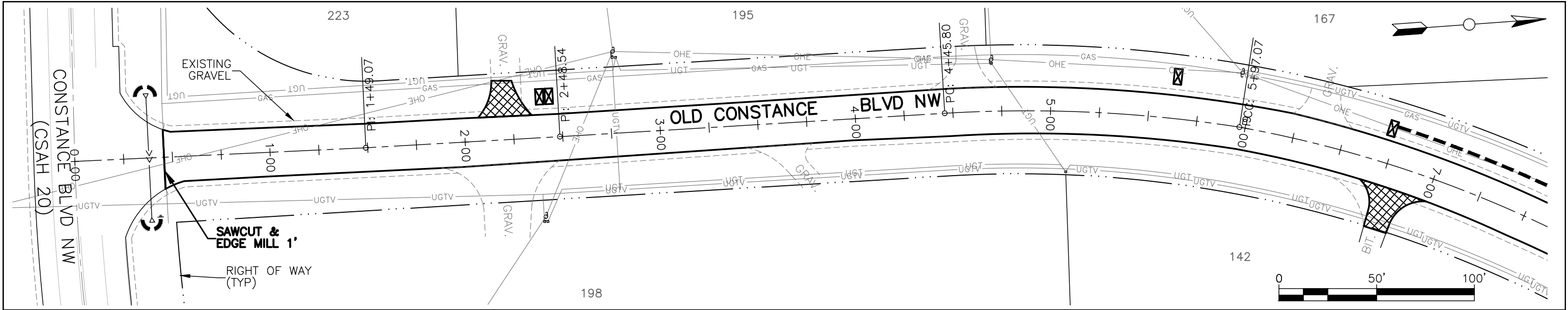
NO.	DATE	BY	DESCRIPTION OF REVISIONS

DESIGNED JJL	DRAWN JAK	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 <i>David D. Berkowitz</i> SIGNATURE DATE 3/3/2026 LIC. NO. 26757
CHECKED DDB	TYPED OR PRINTED NAME DAVID D. BERKOWITZ	



2026 FULL DEPTH RECLAMATION
OLD CONSTANCE BLVD NW
CITY PROJECT 26-11D

TYPICAL SECTIONS
SHEET NO. 36 OF 46 SHEETS



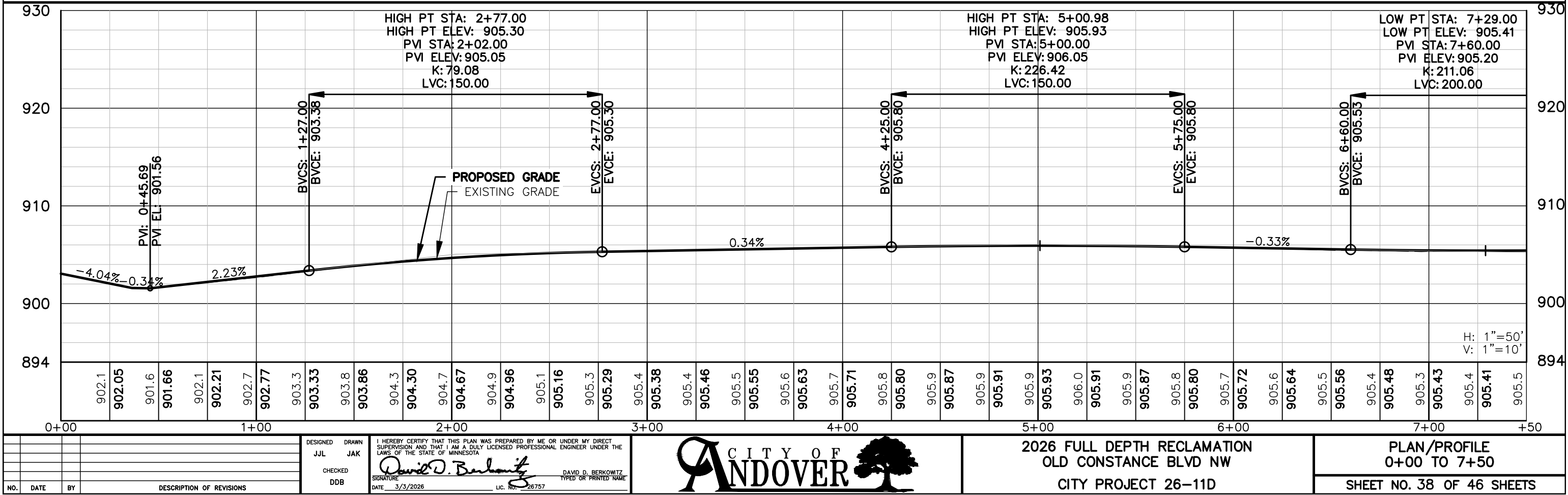
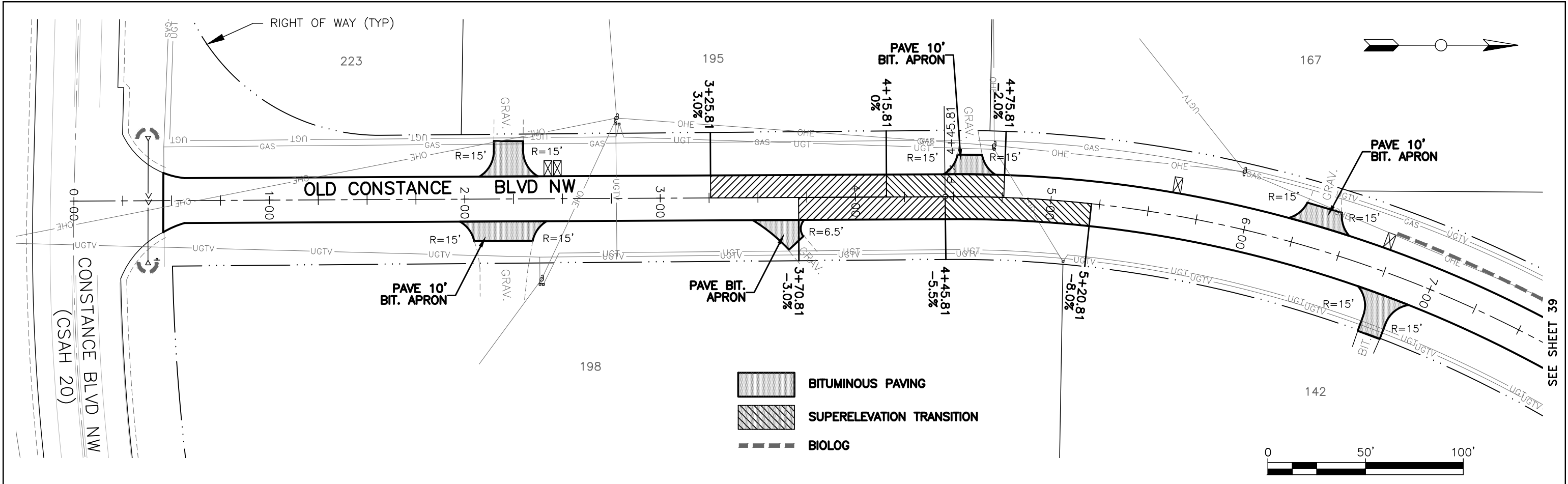
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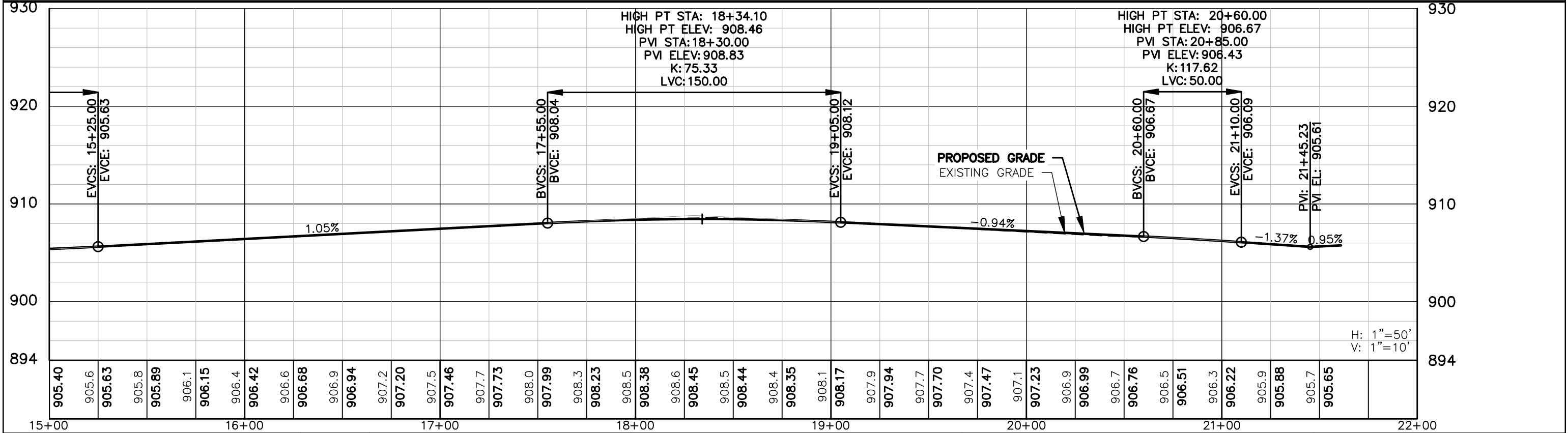
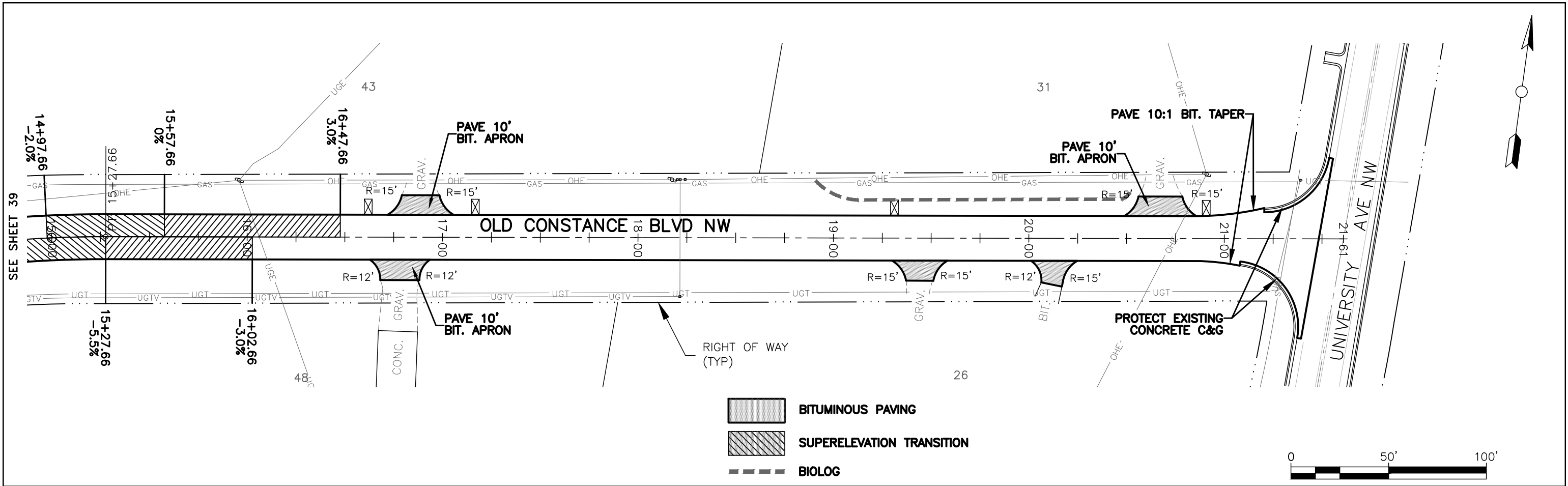
DESIGNED JJL	DRAWN JAK
CHECKED DDB	SIGNATURE <i>David D. Berkowitz</i> DATE 3/3/2026
	DAVID D. BERKOWITZ TYPED OR PRINTED NAME LIC. NO. 26757

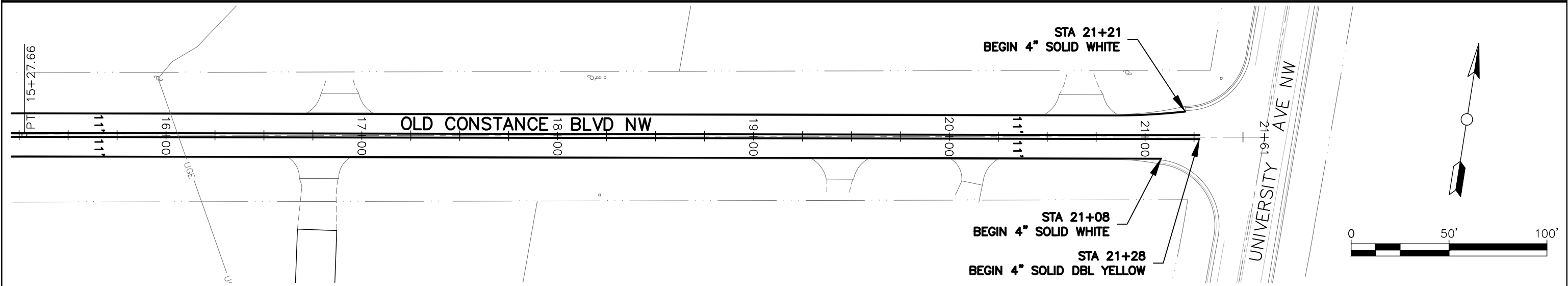
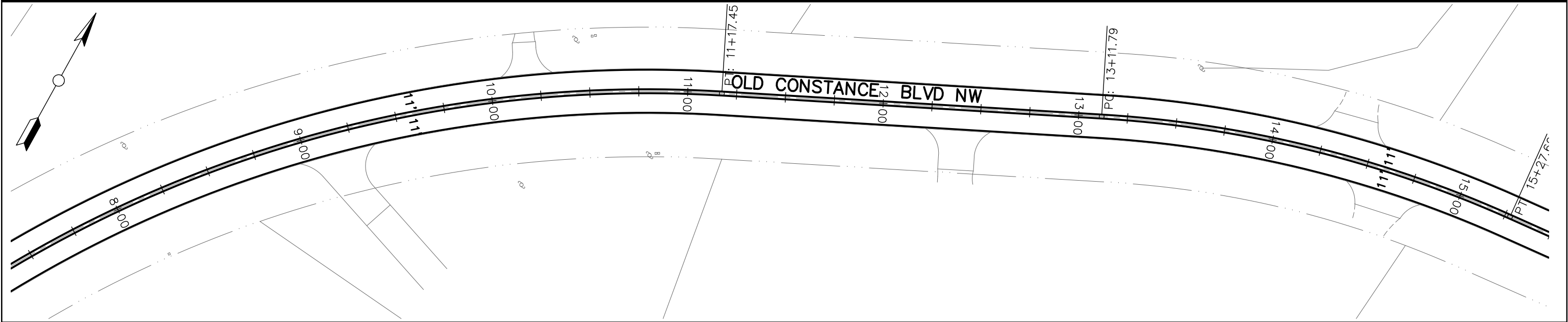
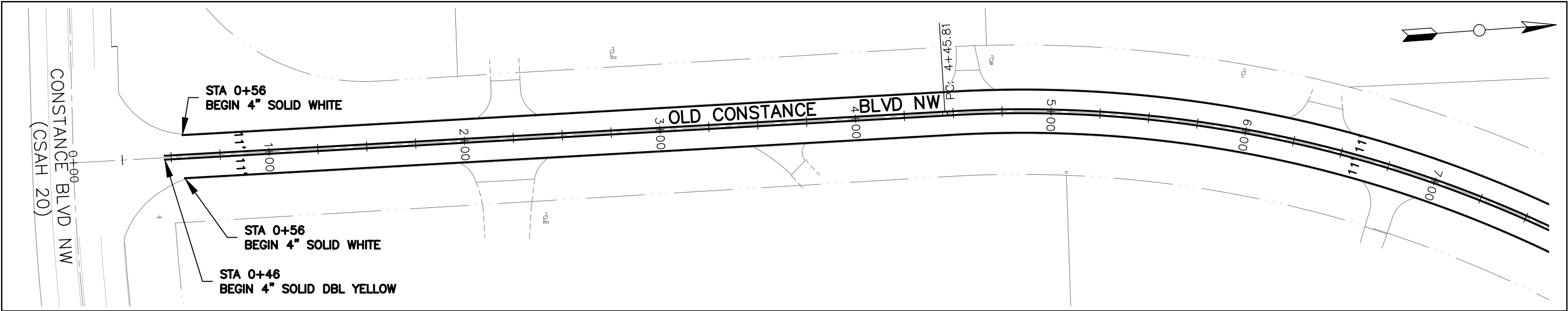


2026 FULL DEPTH RECLAMATION
OLD CONSTANCE BLVD NW
CITY PROJECT 26-11D

REMOVALS
SHEET NO. 37 OF 46 SHEETS







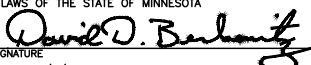
NO.	DATE	BY	DESCRIPTION OF REVISIONS

DESIGNED
JJL

DRAWN
JAK

CHECKED
DDB

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


DAVID D. BERKOWITZ
TYPED OR PRINTED NAME

DATE 3/3/2026 LIC. NO. 226757



2026 FULL DEPTH RECLAMATION
OLD CONSTANCE BLVD NW
CITY PROJECT 26-11D

STRIPING
SHEET NO. 41 OF 46 SHEETS