

CITY OF ANDOVER, MINNESOTA

CONSTRUCTION PLANS FOR

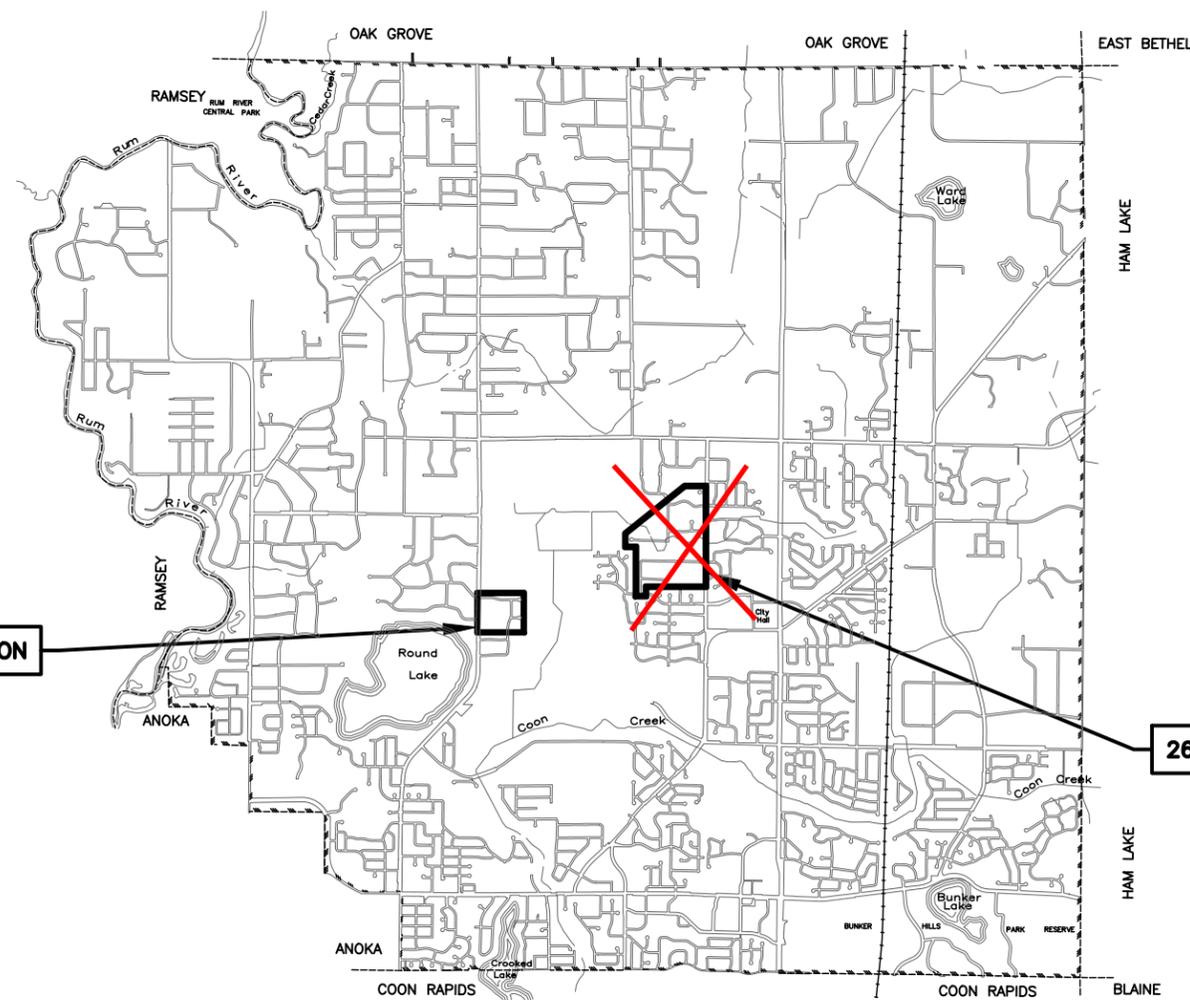
2026 STREET RECONSTRUCTION KADLEC ESTATES (C.P. 26-02B)

AND ~~NIGHTINGALE PRESERVE, WITTINGTON RIDGE, & NIGHTINGALE ESTATES 1ST-3RD ADDITIONS (C.P. 26-02D)~~

LEGEND

- = CORPORATE LIMITS
- = CENTERLINE
- EXISTING**
- = R.O.W.
- = PROPERTY LINE
- = 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
- = CATCH BASIN
- = STORM SEWER MANHOLE
- = OUTLET CONTROL STRUCTURE
- = STORM SEWER LINE
- = CONCRETE CURB & GUTTER
- PROPOSED**
- = CONCRETE CURB & GUTTER
- = CATCH BASIN
- = STORM SEWER LINE

- 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 ASCE 38-22, ENTITLED "STANDARD GUIDELINES FOR INVESTIGATING AND DOCUMENTING EXISTING UTILITIES."
 3. THESE PROJECTS ARE LOCATED WITHIN THE BOUNDARY OF THE COON CREEK WATERSHED DISTRICT.



NO SCALE

| PLAN REVISIONS SUMMARY | | | |
|------------------------|----|------|-----------|
| NO. | BY | DATE | REVISIONS |
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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.

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THIS PLAN CONTAINS 49 SHEETS



ANDOVER, MINNESOTA

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

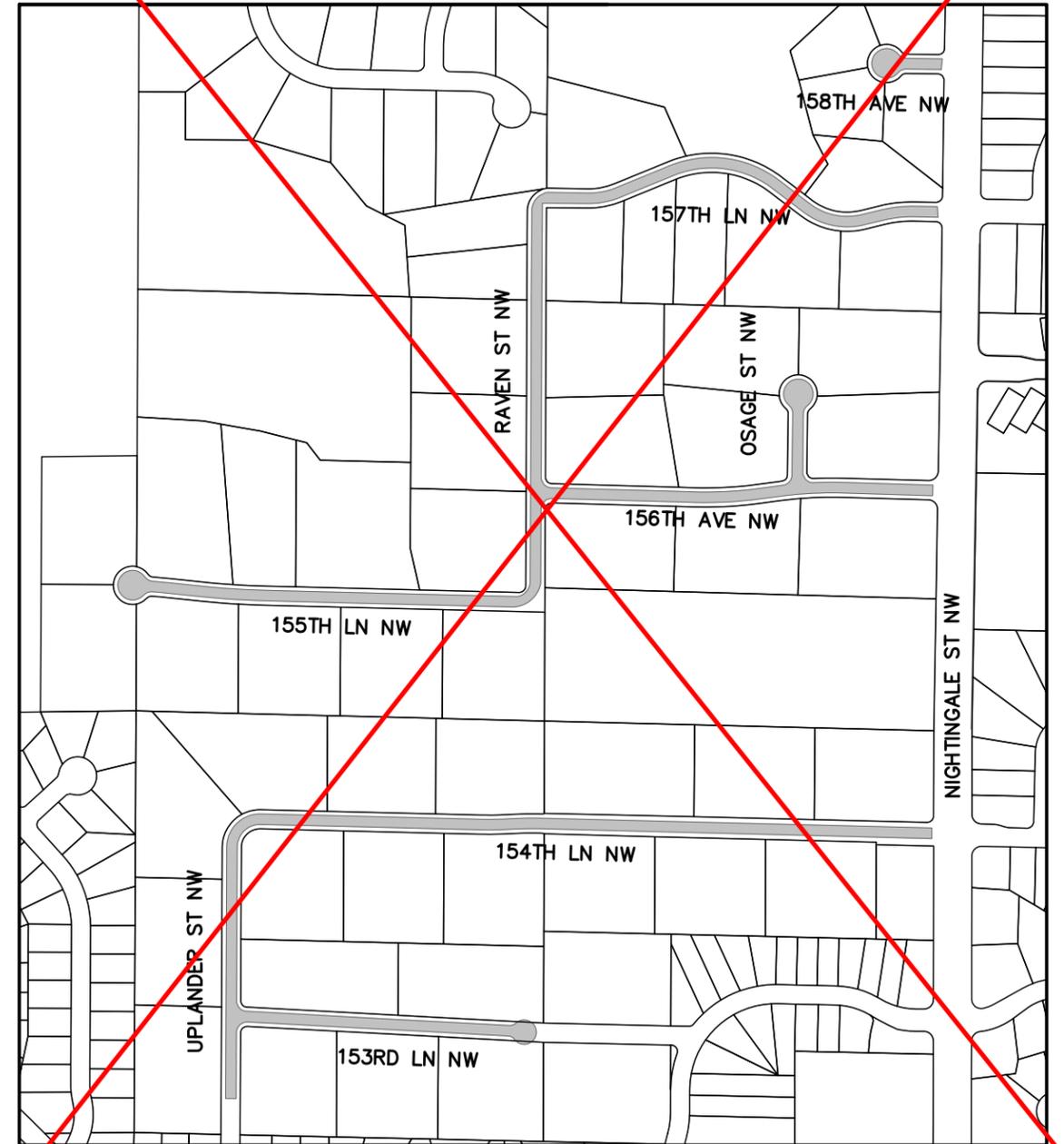
David D. Berkowitz DAVID D. BERKOWITZ, PE
ANDOVER DIRECTOR OF PUBLIC WORKS/CITY ENGINEER
DATE: APRIL 21ST, 2026 LIC. NO. 26757

TITLE SHEET & LEGEND

SHEET NO. 1 OF 49 SHEETS

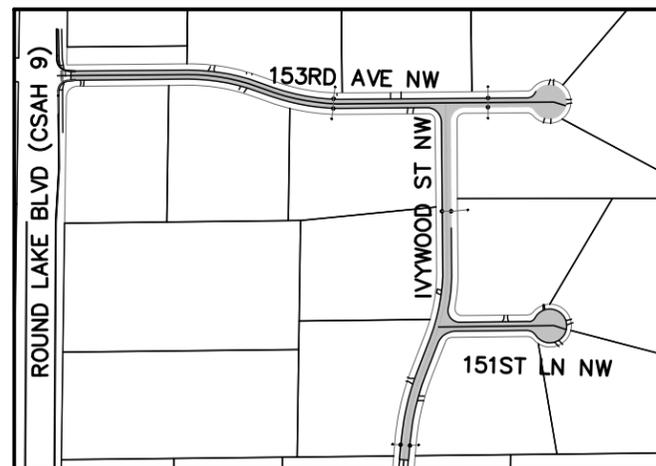
2026 STREET RECONSTRUCTION

NIGHTINGALE PRESERVE, WITTINGTON RIDGE, &
 NIGHTINGALE ESTATES 1ST - 3RD ADDITIONS (C.P. 26-02D)
 SEE SHEETS 18-49



2026 STREET RECONSTRUCTION

KADLEC ESTATES
 (C.P. 26-02B)
 SEE SHEETS 6-17



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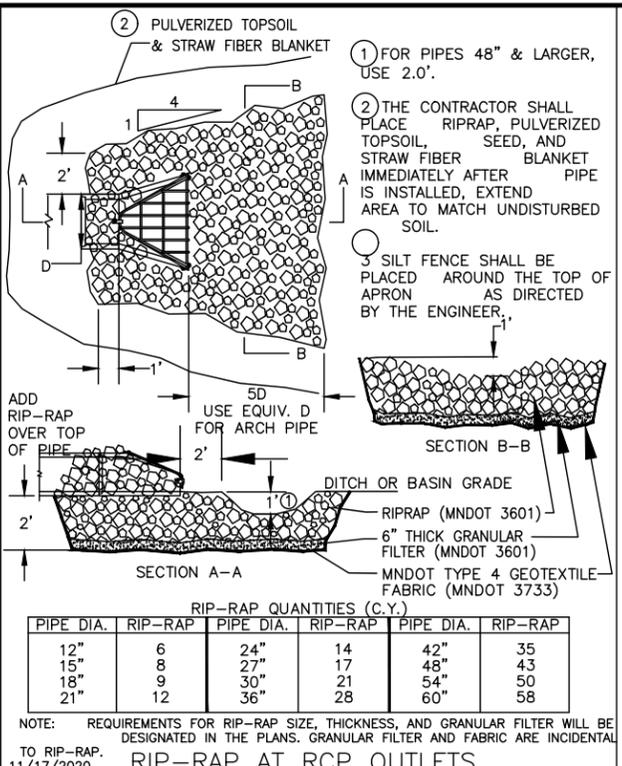
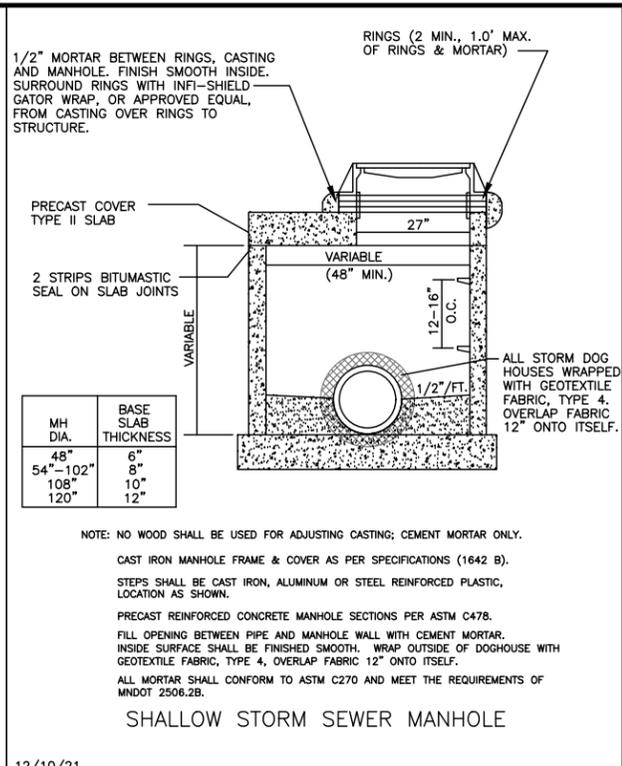
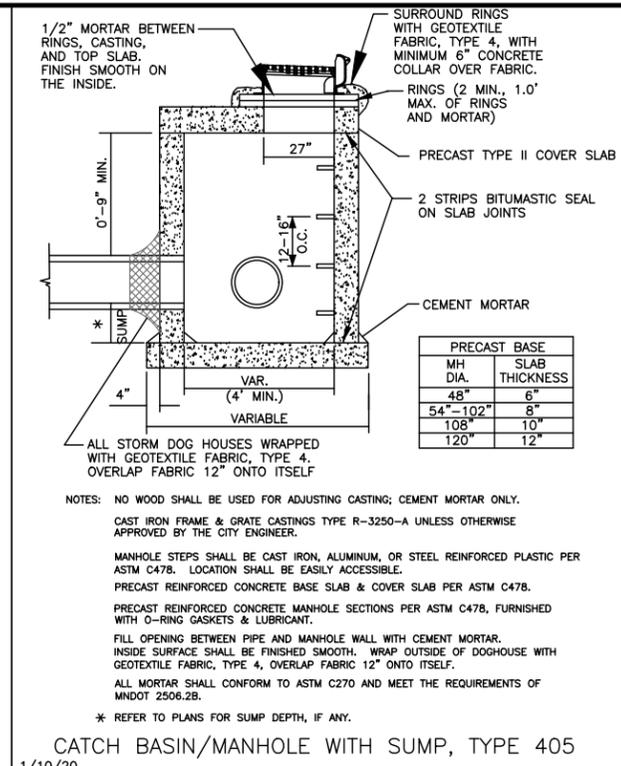
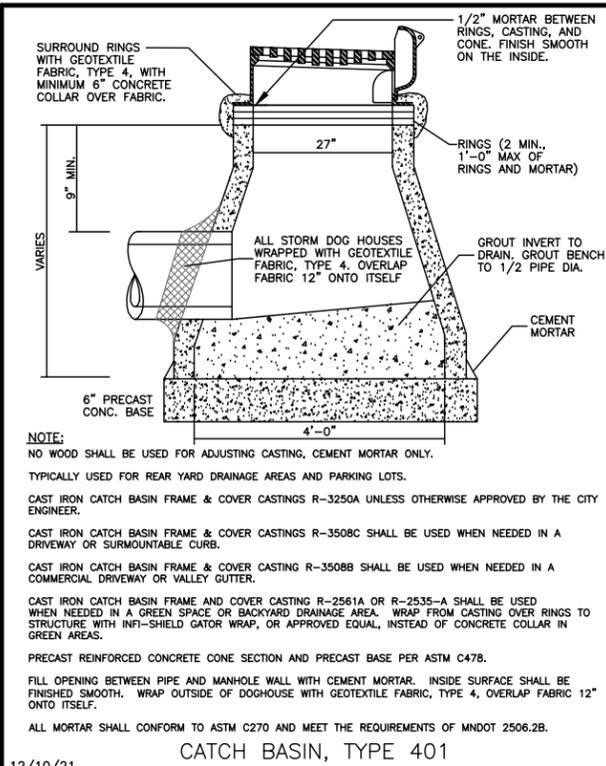
DESIGNED: J.J.L. DRAWN: J.B.K.
 CHECKED: D.D.B.
 I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
 SIGNATURE: *David D. Berkowitz* DATE: APRIL 21ST, 2026 LIC. NO.: 26757
 TYPED OR PRINTED NAME: DAVID D. BERKOWITZ



2026 STREET RECONSTRUCTION
 (C.P. 26-02B) & (C.P. 26-02D)

PROJECT LAYOUT (ALL PROJECTS)

SHEET NO. 2 OF 49 SHEETS



12/10/21

CITY OF ANDOVER

STANDARD DRAWING NO. 401L

1/10/20

CITY OF ANDOVER

STANDARD DRAWING NO. 405K

12/10/21

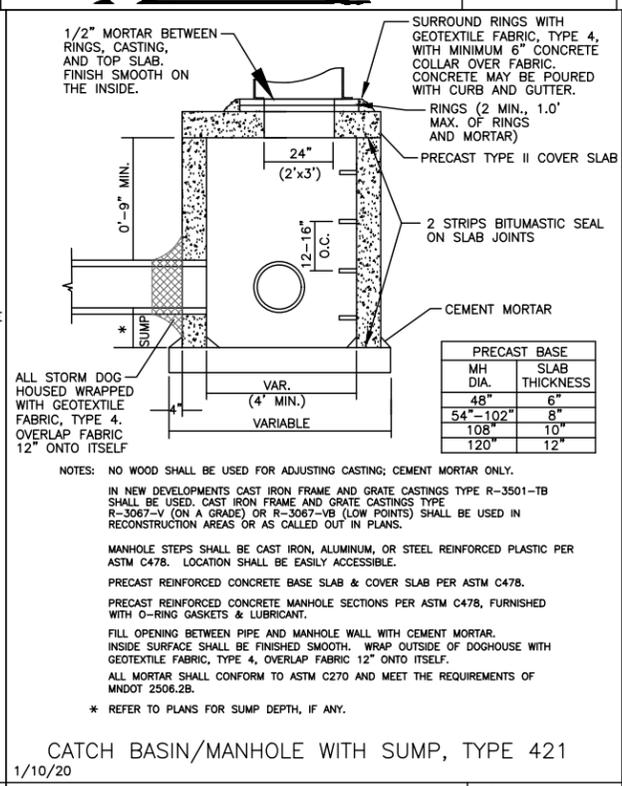
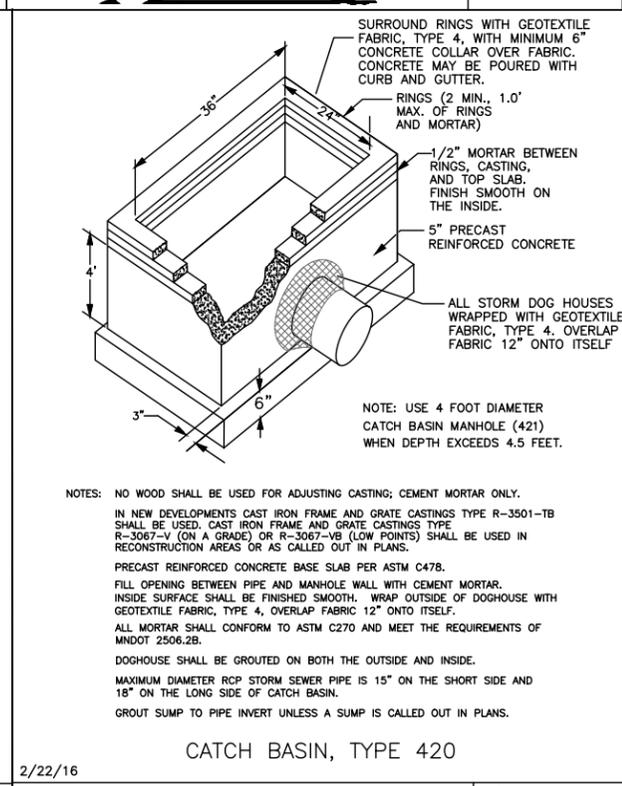
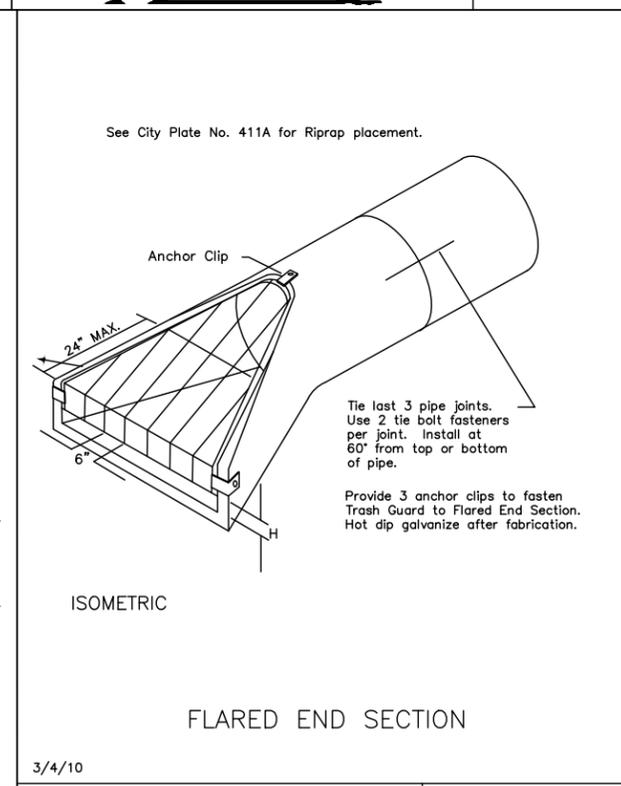
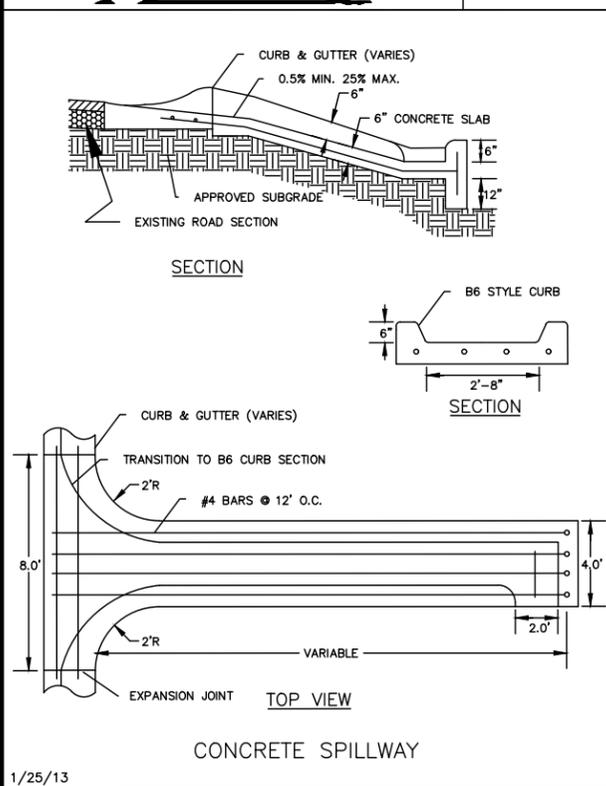
CITY OF ANDOVER

STANDARD DRAWING NO. 409E

11/17/2020

CITY OF ANDOVER

STANDARD DRAWING NO. 411B



1/25/13

CITY OF ANDOVER

STANDARD DRAWING NO. 412A

3/4/10

CITY OF ANDOVER

STANDARD DRAWING NO. 419A

2/22/16

CITY OF ANDOVER

STANDARD DRAWING NO. 420F

1/10/20

CITY OF ANDOVER

STANDARD DRAWING NO. 421G

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DESIGNED: JUL
DRAWN: JBK
CHECKED: DDB

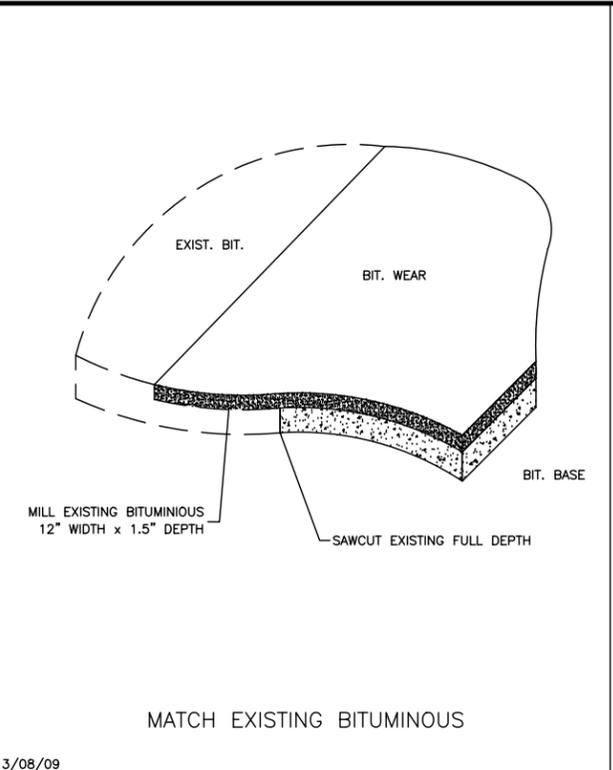
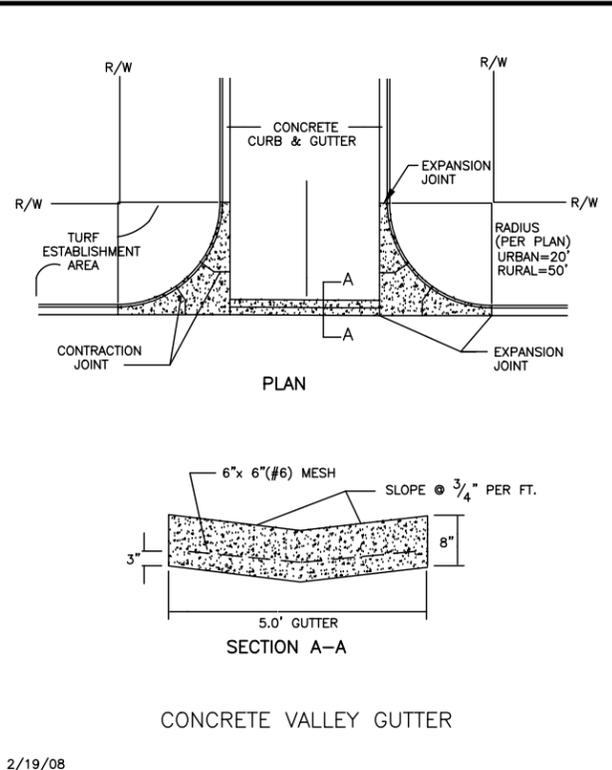
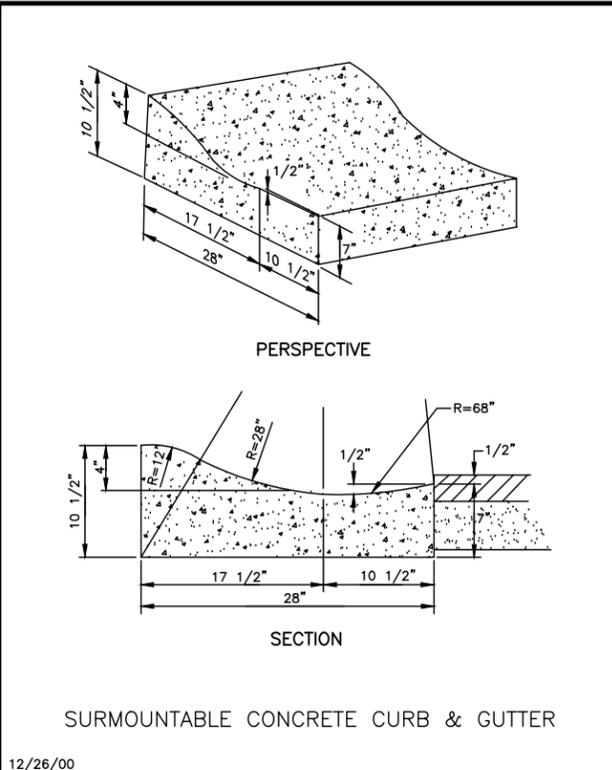
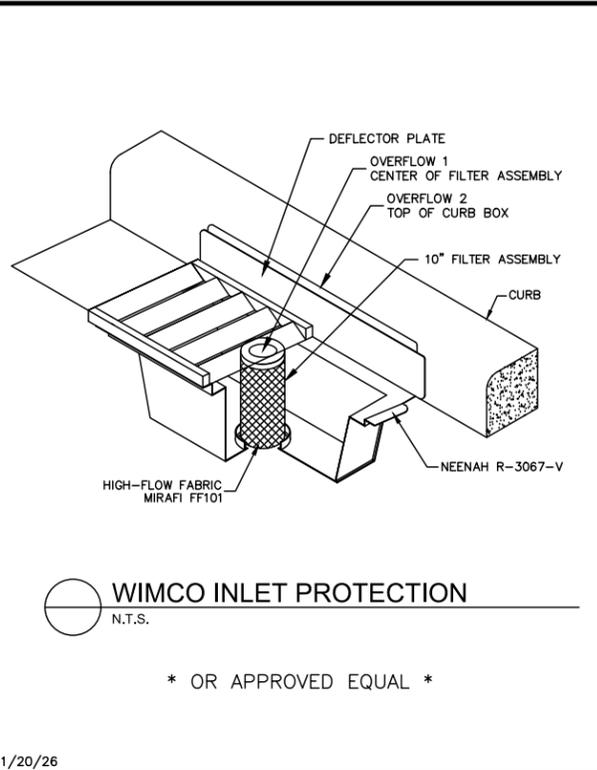
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David D. Berkowitz
DAVID D. BERKOWITZ
DATE: APRIL 21ST, 2026 LIC. NO. 28757

CITY OF ANDOVER

2026 STREET RECONSTRUCTION
(C.P. 26-02B) & (C.P. 26-02D)

DETAILS (ALL PROJECTS)
SHEET NO. 3 OF 49 SHEETS

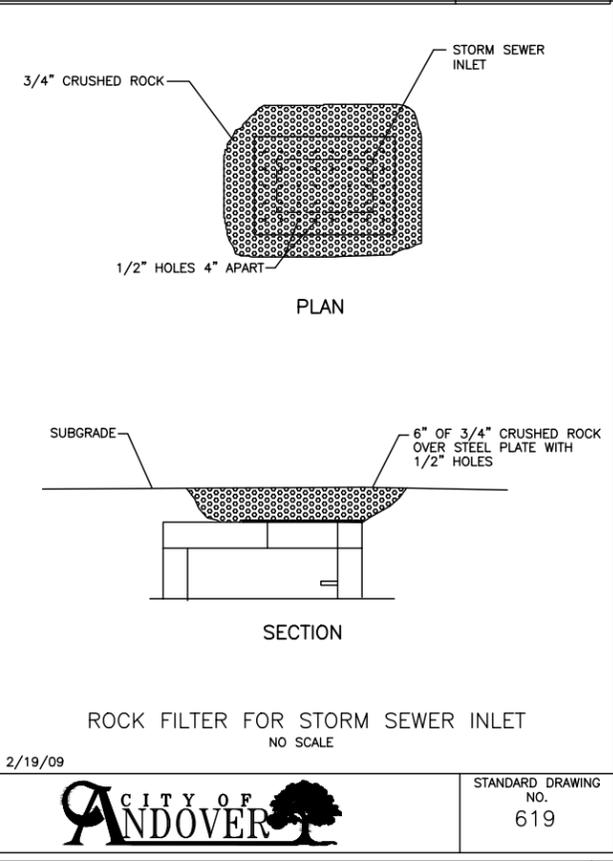
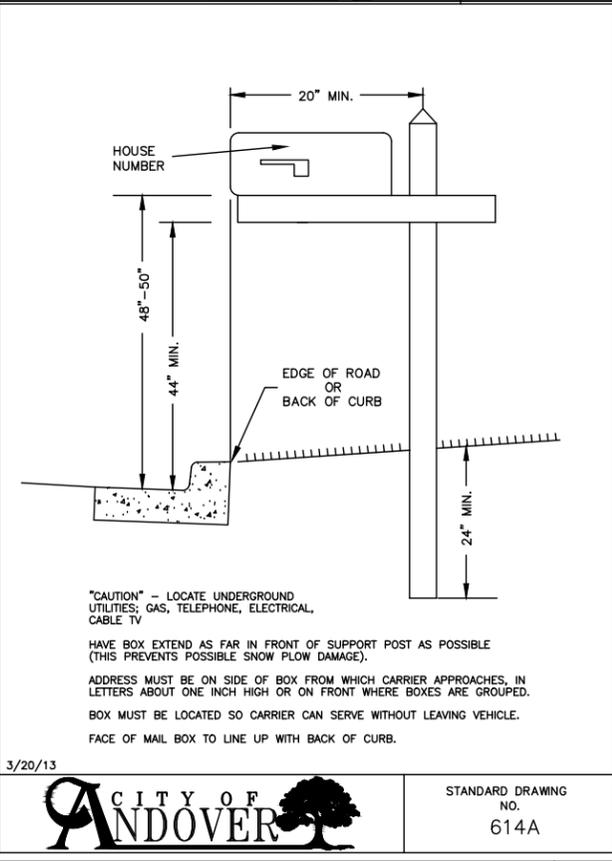
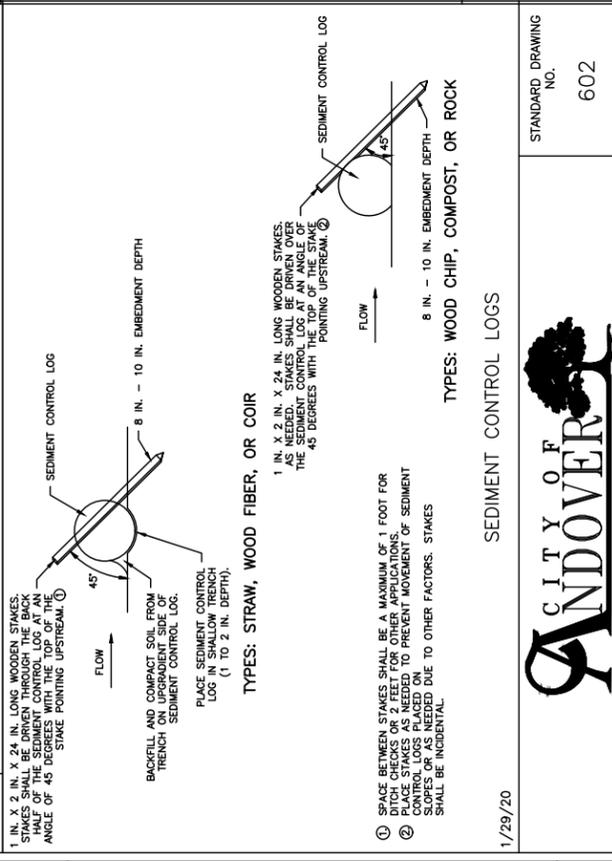
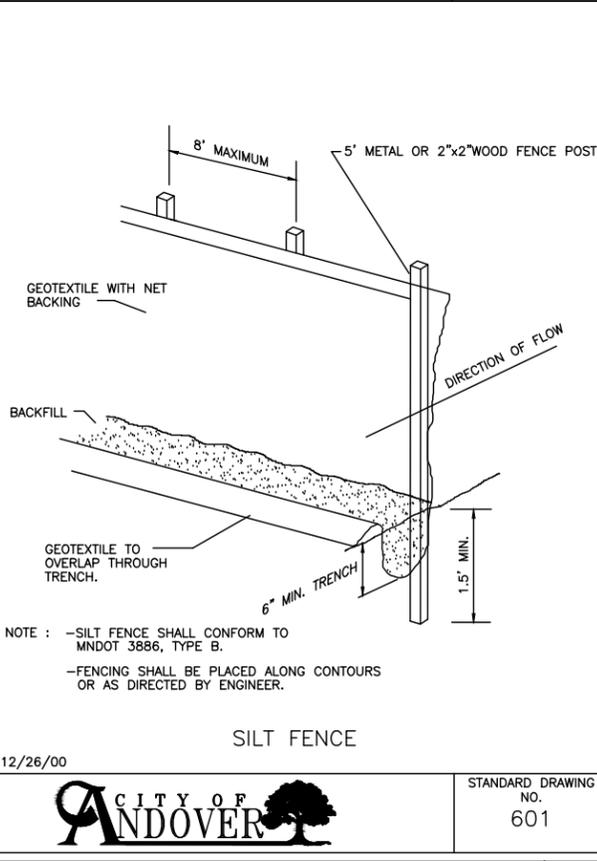


1/20/26
STANDARD DRAWING NO. 422
CITY OF ANDOVER

12/26/00
STANDARD DRAWING NO. 501
CITY OF ANDOVER

2/19/08
STANDARD DRAWING NO. 504E
CITY OF ANDOVER

3/08/09
STANDARD DRAWING NO. 520
CITY OF ANDOVER



12/26/00
STANDARD DRAWING NO. 601
CITY OF ANDOVER

1/29/20
STANDARD DRAWING NO. 614A
CITY OF ANDOVER

3/20/13
STANDARD DRAWING NO. 619
CITY OF ANDOVER

2/19/09
STANDARD DRAWING NO. 619
CITY OF ANDOVER

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DESIGNED: JUL
DRAWN: JBK
CHECKED: DDB
DATE: APRIL 21ST, 2026
LIC. NO. 28757

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
DAVID D. BERKOWITZ
TYPED OR PRINTED NAME

CITY OF ANDOVER

2026 STREET RECONSTRUCTION
(C.P. 26-02B) & (C.P. 26-02D)

DETAILS (ALL PROJECTS)
SHEET NO. 4 OF 49 SHEETS

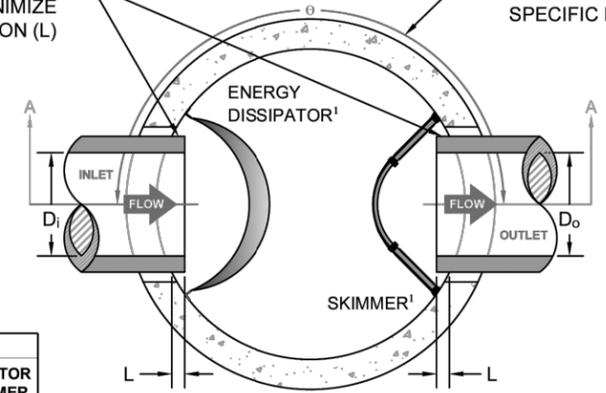
THE FOLLOWING STANDARD PLATES APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION SHALL APPLY ON THIS PROJECT

| STANDARD PLATES | |
|-----------------|--|
| PLATE NO. | DESCRIPTION |
| 7038A | DETECTABLE WARNING SURFACE TRUNCATED DOMES |
| 7100H | CONCRETE CURB AND GUTTER |
| 8000K | TEMPORARY CHANNELIZERS - TYPE A |

PLAN VIEW

FOR NEW MANHOLE CONSTRUCTION, CONTRACTOR TO MINIMIZE PIPE PROTRUSION (L)

REFER TO MANHOLE SIZING CHART TO ENSURE PROJECT SPECIFIC DESIGN FEASIBILITY



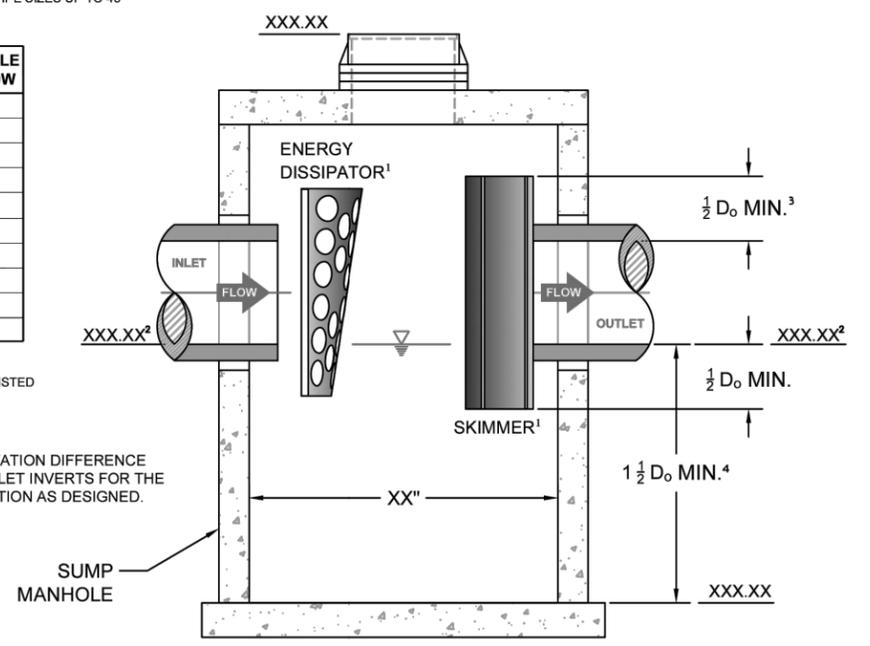
| STRUCTURE DIAMETER* | MAXIMUM PIPE DIAMETER** | | |
|---------------------|-------------------------|--------------|----------------------|
| | DISSIPATOR ONLY | SKIMMER ONLY | DISSIPATOR & SKIMMER |
| 48" | 27" | 24" | 15" |
| 60" | 36" | 30" | 24" |
| 72" | 48" | 42" | 30" |
| 84" | | 48" | 36" |
| 96" | | | 48" |

NOTE 1: THE PRESERVER™ ENERGY DISSIPATOR WAS DESIGNED AND TESTED TO FUNCTION WITH OR WITHOUT A SKIMMER. DISSIPATORS & SKIMMERS CAN BE UTILIZED IN TANDEM OR INDEPENDENTLY.

*RECOMMENDED TO PROVIDE ADEQUATE SPACING BETWEEN COMPONENTS FOR INSTALLATION, ACCESS & MAINTENANCE. REFER TO MANHOLE SIZING CHARTS FOR MORE DETAILED STRUCTURE SIZING OR CONTACT MOMENTUM FOR PROJECT SPECIFIC DETAILS.

**PRESERVER™ COMPONENTS ACCOMMODATE PIPE SIZES UP TO 48" DIAMETER.

CROSS SECTION AA



| PART NUMBER* | PIPE DIAMETER** | ALLOWABLE PEAK FLOW |
|--------------|-----------------|---------------------|
| D15 / S15 | 12" | 20 CFS |
| | 15" | 25 CFS |
| D21 / S21 | 18" | 30 CFS |
| | 21" | 35 CFS |
| D27 / S27 | 24" | 50 CFS |
| | 27" | 60 CFS |
| D36 / S36 | 30" | 85 CFS |
| | 36" | 100 CFS |
| D48 / S48 | 42" | 145 CFS |
| | 48" | 175 CFS |

*"D" = DISSIPATOR, PLACED AT INLET(S)
 *"S" = SKIMMER, PLACED AT OUTLET
 **CONTACT MOMENTUM FOR PIPE SIZES NOT LISTED

NOTE 2: MINIMIZE ELEVATION DIFFERENCE BETWEEN INLET AND OUTLET INVERTS FOR THE PRESERVER™ TO FUNCTION AS DESIGNED.

NOTE 3: STOCK SKIMMERS HAVE A MINIMUM FREEBOARD DEPTH OF 1/2 Do. FOR GREATER FREEBOARD DEPTHS, DESIGNERS CAN UPSIZE THE SKIMMER, OR USE A CUSTOMIZED SKIMMER. FOR CUSTOM DESIGNS, AND/OR PROJECT SPECIFIC DETAILS, CONTACT MOMENTUM.

NOTE 4: ADDITIONAL DEPTH IS RECOMMENDED FOR POLLUTANT STORAGE (1 1/2 Do + POLLUTANT STORAGE DEPTH). SIZING CALCULATOR SHOULD BE USED TO ENSURE ADEQUATE POLLUTANT STORAGE VOLUME.

Not to Scale

PRESERVER
MADE IN THE USA

877-773-0073 • www.MomentumEnv.com

THE PRESERVER™
STANDARD INSTALL DETAIL

ENERGY DISSIPATOR AND/OR SKIMMER

PROUDLY QUALITY MATERIALS:
 100% recycled HDPE
 Stainless steel brackets
 Stainless steel hardware

CONCEPTUAL PLAN DISCLAIMER:
 THIS GENERIC DETAIL DOES NOT ENCOMPASS THE SIZING, FIT, AND APPLICABILITY OF THE PRESERVER FOR THIS SPECIFIC PROJECT. IT IS THE ULTIMATE RESPONSIBILITY OF THE DESIGN ENGINEER TO ASSURE THAT THE STORMWATER SYSTEM DESIGN IS IN FULL COMPLIANCE WITH ALL APPLICABLE LAWS AND REGULATIONS. MOMENTUM ENVIRONMENTAL LLC DOES NOT APPROVE PLANS, SIZING, OR SYSTEM DESIGNS. THE DESIGN ENGINEER IS RESPONSIBLE FOR ALL DESIGN DECISIONS.

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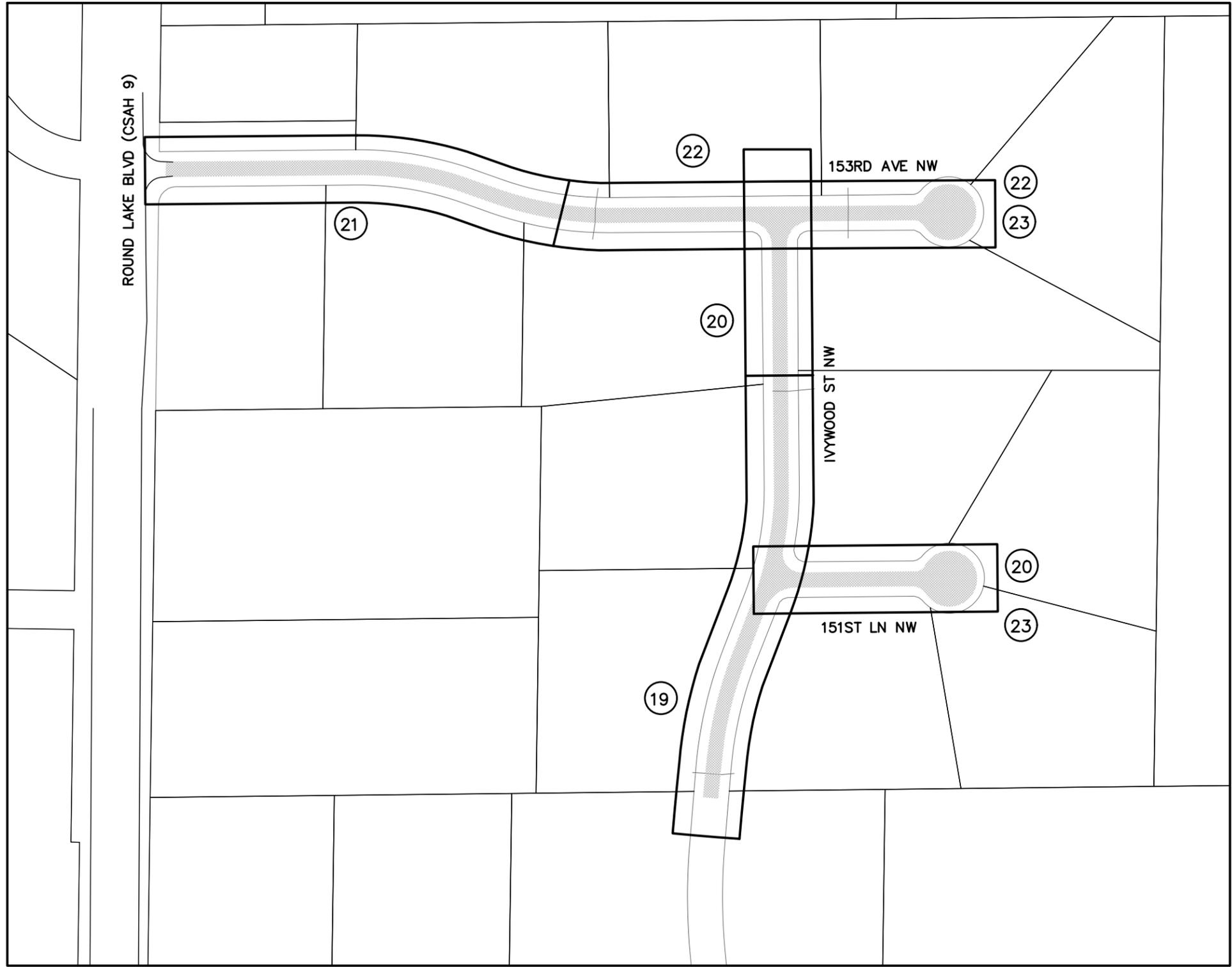
DESIGNED: JUL DRAWN: JBK
 CHECKED: DDB
 I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE: DAVID D. BERKOWITZ
 DATE: APRIL 21ST, 2026 LIC. NO.: 26757 TYPED OR PRINTED NAME



2026 STREET RECONSTRUCTION
(C.P. 26-02B) & (C.P. 26-02D)

DETAILS (ALL PROJECTS)
SHEET NO. 5 OF 49 SHEETS



ⓧ = REMOVALS, PLAN / PROFILES, RESTORATION

| NO. | DATE | BY | DESCRIPTION OF REVISIONS |
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DESIGNED: J.J.L. DRAWN: J.B.K.
 CHECKED: D.D.B.
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 SIGNATURE: *David D. Berkowitz* DATE: APRIL 21ST, 2026 LIC. NO.: 26757
 TYPED OR PRINTED NAME: DAVID D. BERKOWITZ



2026 STREET RECON (C.P. 26-02B)
 KADLEC ESTAES

PROJECT LAYOUT
 SHEET NO. 6 OF 49 SHEETS

2026 Street Reconstruction: Kadlec Estates
City Project: 26-02B
STATEMENT OF ESTIMATED QUANTITIES

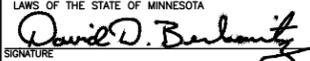
| NOTES | ITEM NO. | DESCRIPTION | UNIT | TOTAL ESTIMATED PROJECT QUANTITIES | | |
|-------|----------|-------------|--|------------------------------------|------------|--|
| | | | | EST. QUAN. | ACT. QUAN. | |
| | 101 | 2021.501 | Mobilization | LS | 1.00 | |
| 1 | 102 | 2104.502 | Remove Casting (Storm) | EA | 2 | |
| 1 | 103 | 2104.502 | Salvage Casting (Storm) | EA | 6 | |
| 2 | 104 | 2104.503 | Sawing Concrete Pavement (Full Depth) | LF | 90 | |
| 2 | 105 | 2104.503 | Sawing Bit Pavement (Full Depth) | LF | 190 | |
| | 106 | 2104.503 | Remove Curb & Gutter | LF | 20 | |
| 2 | 107 | 2104.518 | Remove Concrete Pavement | SF | 850 | |
| 2 | 108 | 2104.518 | Remove Bituminous Pavement | SF | 1,900 | |
| 3 | 109 | 2104.602 | Salvage and Reinstall Mailbox | EA | 15 | |
| 4 | 110 | 2105.607 | Common Excavation (EV) | CY | 740 | |
| 5 | 111 | 2105.607 | Subgrade Excavation (EV) | CY | 50 | |
| 6 | 112 | 2105.607 | Salvage Reclaim Material (LV) | CY | 10 | |
| 7 | 113 | 2105.607 | Select Granular Borrow (LV) | CY | 70 | |
| 8 | 114 | 2112.519 | Subgrade Preparation | RDST | 27.6 | |
| 9 | 115 | 2130.523 | Water | MGAL | 10 | |
| 10 | 116 | 2211.509 | Aggregate Base Class 5 | TN | 20 | |
| 11 | 117 | 2211.607 | Place Salvaged Reclaim Material (CV) | CY | 7 | |
| | 118 | 2215.504 | Full Depth Reclamation | SY | 9,070 | |
| | 119 | 2232.504 | Mill Bituminous Surface (1.5") | SY | 3 | |
| | 120 | 2357.506 | Bituminous Material For Tack Coat | Gal | 400 | |
| | 121 | 2360.509 | Type SP 9.5 Wearing Course Mix (2,C) | TN | 760 | |
| 12 | 122 | 2360.509 | Type SP 9.5 Bit Mixture for Patching (2,B) | TN | 60 | |
| | 123 | 2360.509 | Type SP 12.5 Wearing Course Mixture (2,C) | TN | 760 | |
| 13 | 124 | 2504.602 | Irrigation System Modifications | EA | 60 | |
| 14,15 | 125 | 2506.502 | Casting Assembly - Storm | EA | 3 | |
| 15 | 126 | 2506.502 | Install Casting - Storm | EA | 6 | |
| 16 | 127 | 2506.602 | Mud Doghouse | EA | 4 | |
| 17 | 128 | 2506.607 | Fill Catch Basin Sump | CY | 4 | |
| | 129 | 2531.503 | Concrete Curb and Gutter Design Surmountable | LF | 5,500 | |
| | 130 | 2531.504 | 6" Concrete Driveway Pavement | SY | 100 | |
| | 131 | 2563.601 | Traffic Control | LS | 1 | |
| | 132 | 2573.502 | Storm Drain Inlet Protection | EA | 2 | |
| | 133 | 2573.503 | Sediment Control Log Type Wood Chip | LF | 400 | |
| | 134 | 2573.607 | Rock Ditch Check - 1.5" Nom. Diameter | CY | 5 | |
| | 135 | 2574.507 | Loam Topsoil Borrow (LV) | CY | 690 | |
| 18 | 136 | 2574.508 | Fertilizer Type 3 | LB | 210 | |
| | 137 | 2575.504 | Sodding Type Lawn | SY | 980 | |
| 19 | 138 | 2575.504 | Rolled Erosion Prevention Category 20 | SY | 220 | |
| 20 | 139 | 2575.505 | Weed Spraying | ACRE | 0.60 | |
| | 140 | 2575.505 | Seeding | ACRE | 0.60 | |
| | 141 | 2575.508 | Hydraulic Mulch Matrix | LB | 1,500 | |
| | 142 | 2575.608 | Seed Residential Turfgrass | LB | 120 | |
| | 143 | 2582.503 | 18" Solid Line Paint | LF | 20 | |
| | 144 | 2582.518 | Pavement Message Paint | SF | 150 | |

C.P. 26-02B Notes:

- Item includes temporary plating of structure if necessary.
- Regardless of depth.
- Includes salvage and reinstall of existing mailbox, and temporary placement of mailbox in barrel at each existing location during construction.
- 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.
- Only to be used if sufficient material not generated on-site for subgrade excavation / correction backfill, if necessary. Use excess reclaim first.
- 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.
- For use if salvaged casting breaks or is unusable or new casting required per plans.
- Includes new concrete adjusting rings regardless of depth, Infi-Shield Gator Wrap (manholes), or wrap rings with geotextile fabric and concrete collar (catch basins).
- Item shall include regrouting all doghouses within structure. The "Each" item refers to each structure regardless of the number of doghouses in the structure.
- Includes filling sump with redi-mix, pouring invert, constructing benches to 1/3 of pipe diameter. Includes regrouting doghouses as necessary.
- 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.

| 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 |

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| DESIGNED JUL | DRAWN JBK | 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 APRIL 21ST, 2026 | |



2026 STREET RECON (C.P. 26-02B)
KADLEC ESTAES

STATEMENT OF ESTIMATED QUANTITIES
SHEET NO. 7 OF 49 SHEETS

EARTH WORK TABLE

City Project 26-02B: Kadlec Estates

Aggregate Base Class 7 (Reclaim)

Existing 2.5'-3" of bituminous and 4" +/- aggregate base based on road cores
 Reclaim 7" +/- deep (pull some sand into reclaim)

Roadway Length = 2,753 LF
 Curb Length = 5,500 LF

Salvage Reclaim Material

| | | | |
|---------------------------------------|------------------|--|------------------|
| Volume of salvaged reclaim material = | 0 CY (CV) | 6" salvage in areas of subgrade / profile lowering | 0 LF x 24' wide |
| Volume of salvaged reclaim material = | 7 CY (CV) | 6" salvage in areas of subgrade correction, if any | 15 LF x 24' wide |
| Total Salvaged Reclaim = | <u>7 CY (CV)</u> | Available material to be re-used on-site | |

Salvaged Reclaim Required

| | | |
|--|------------------|---|
| Volume required = | 0 CY (CV) | 5" minimum - areas of profile grade changes |
| Volume required = | 7 CY (CV) | 5" minimum - areas of subgrade corrections |
| Total Salvaged Reclaim Required | <u>7 CY (CV)</u> | |

Aggregate Base Class 5 Required

| | | |
|-------------------------------|-------------------|---------------------------------------|
| Volume required = | 10 CY (CV) | Driveway and pedestrian ramps, if any |
| Total Class 5 Required | <u>10 CY (CV)</u> | |

Subgrade Excavation

| | | |
|------------------------------------|-------------------|---|
| Volume of subgrade exc. = | 0 CY (EV) | Areas of lowering of roadway profile |
| Volume of subgrade exc. = | 47 CY (EV) | Subgrade correction areas. Assume 3' depth in correction excavation, if any areas found |
| Total Subgrade Excavation = | <u>47 CY (EV)</u> | |

Common Excavation

| | | |
|----------------------------------|--------------------|---|
| Volume of common exc. = | 9 CY (EV) | Miscellaneous excavation for driveway apron replacements |
| Volume of common exc. = | 720 CY (EV) | Assume 3.5' x curb length x 1'. Dispose unsuitable off-site, use clean material for curb backfill |
| Volume of common exc. = | 10 CY (EV) | Excavate end of flared end / ditch to drain |
| Total Common Excavation = | <u>739 CY (EV)</u> | |

Topsoil Borrow

| | |
|-------------|---|
| 490 CY (CV) | Curb length x 3' x 0.75' deep. Utilize salvaged common ex. if suitable. 4" min. in all disturbed areas. |
|-------------|---|

EARTHWORK SUMMARY**

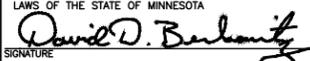
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|--|-------------|---|
| Salvage Reclaim Material | 7 CY (CV) | |
| Volume of salvaged reclaim | 10 CY (LV) | |
| Place Salvaged Reclaim Material | 7 CY (CV) | For replacement of salvaged reclaim in areas of profile lowering or subgrade correction |
| Volume of salvaged reclaim material to replace = | | |
| Reclaimed Aggregate Base Balance | | |
| Volume of salvaged reclaim material available = | 7 CY (CV) | |
| Volume of required reclaim material = | 7 CY (CV) | |
| Balance of reclaim material = | 0 CY (CV) | |
| | 0 CY (LV) | Haul out and dispose of excess. Excess property of contractor |
| Common Excavation | 740 CY (EV) | Haul out and dispose of unsuitable and excess material off-site. Use clean material for curb backfill. |
| Subgrade Excavation | 50 CY (EV) | Haul out and dispose of unsuitable and excess material off-site. |
| Aggregate Base Class 5 | 10 CY (CV) | |
| | 20 Tons | |
| Topsoil Borrow | 490 CY (CV) | |
| | 690 CY (LV) | |
| Select Granular Borrow | 47 CY (EV) | For backfill of subgrade correction if necessary. Only used if sufficient material not available on-site. |
| | 70 CY (LV) | |
| Excess Excavation Material to Dispose of Off-Site | 600 CY (EV) | Excess reclaim, and assumed 75% of common exc material and subgrade exc material |
| | 780 CY (LV) | |

** 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)

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| DESIGNED JUL | DRAWN JJB | 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 APRIL 21ST, 2026 | |



2026 STREET RECON (C.P. 26-02B)
 KADLEC ESTAES

EARTHWORK SUMMARY
 SHEET NO. 8 OF 49 SHEETS

**Existing Storm Sewer Structures Table
2026 Street Recon: Kadlec Estates (C.P. 26-02B)**

| CB / MH # | Fill Sump / Pour Invert (CY) (2) | Structure Diameter (ft) | Sump Depth (ft) | Mud Dog House (Each) | Salvage Casting (Each) | Remove Casting (Each) | Install Casting (Each) | F&I New Casting (Each) | # Exist Rings (Inches) (1) |
|--------------|--|-------------------------------|-----------------------|----------------------------|------------------------------|-----------------------------|------------------------------|------------------------------|----------------------------------|
| DCB3004 | | 4 | 1 | 1 | | 1 | | 1 | 15 |
| DCB3005 | 0.8 | 4 | 1 | | 1 | | 1 | | 8 |
| DCB3006 | 0.8 | 4 | 1 | | 1 | | 1 | | 10 |
| DCB3007 | | 4 | 1 | 1 | 1 | | 1 | | 8 |
| DCB3008 | | 4 | 1 | 1 | 1 | | 1 | | 10 |
| DCB3009 | 0.8 | 4 | 1 | | 1 | | 1 | | 8 |
| DCB3010 | 0.8 | 4 | 1 | | 1 | | 1 | | 10 |
| DCB3011 | | 4 | 1 | 1 | | 1 | | 1 | 8 |
| Total | 3.2 | | | 4 | 6 | 2 | 6 | 2 | |

Notes 1): When installing casting, 6" and 1' rings shall be used so that there are no more than 5 rings per casting.
2) Mudding of doghouses incidental to filling CB sump.

| NO. | DATE | BY | DESCRIPTION OF REVISIONS |
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DESIGNED: JUL DRAWN: JBK
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
SIGNATURE: DAVID D. BERKOWITZ
DATE: APRIL 21ST, 2026 LIC. NO.: 26757



2026 STREET RECON (C.P. 26-02B)
KADLEC ESTAES

STORM SEWER STRUCTURE TABLE
SHEET NO. 9 OF 49 SHEETS

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. TRAIL CLOSED SIGNS ON TYPE III BARRICADES SHALL BE PLACED AT ALL LOCATIONS IMPACTED BY PEDESTRIAN RAMP/SIDEWALK/TRAIL IMPROVEMENTS.

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 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.

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. (BASE BID, 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 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 4" (MINIMUM) TOPSOIL & SOD OR SEED, FERTILIZER & HYDRAULIC MULCH MATRIX AS DEPICTED IN PLANS. 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).

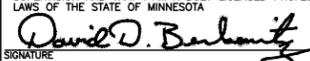
CONTRACTOR IS REQUIRED TO REPAIR AND MAINTAIN ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL PRACTICES (INCIDENTAL).

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.

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| DESIGNED JUL | DRAWN JBK | 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 | LIC. NO. 26757 |
| CHECKED DDB | DATE APRIL 21ST, 2026 | | |

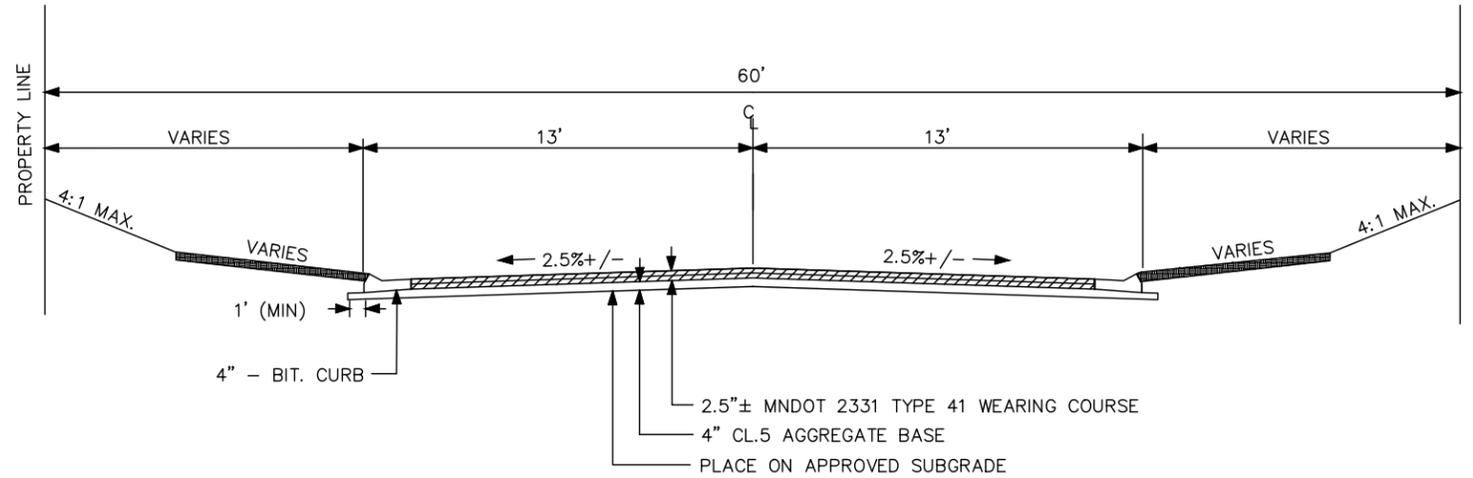


2026 STREET RECON (C.P. 26-02B)
KADLEC ESTAES

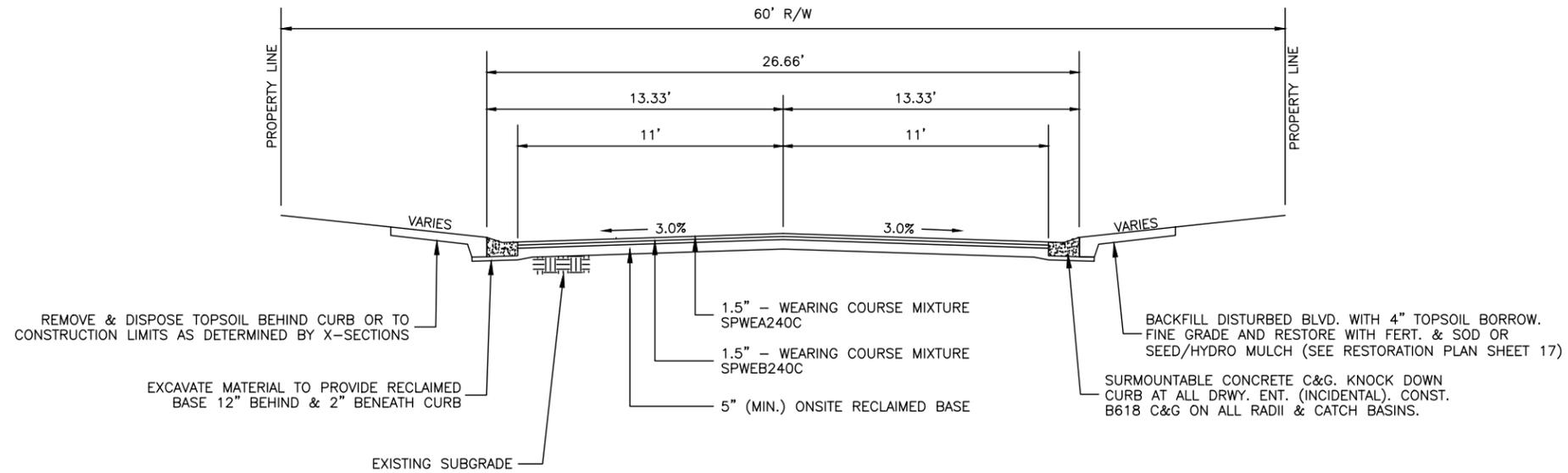
CONSTRUCTION NOTES
SHEET NO. 10 OF 49 SHEETS

RECLAIM 7" +/- DEPTH, OR AS NECESSARY TO PROVIDE HOMOGENEOUS MIXTURE MEETING GRADATION SPEC IN MNDOT 2215.

NOTE:
B618 CONC. CURB & GUTTER TO BE USED AT ALL RADII AND CATCH BASINS.



26-02B EXISTING STREET SECTION



26-02B PROPOSED STREET SECTION

NOTE: PRIOR TO CUTTING CURB SUBGRADE, EXCESS RECLAIM ABOVE PROPOSED GRAVEL GRADE SHALL BE REMOVED TO PROVIDE ADEQUATE ROOM FOR CURB MACHINE.

NOTE: TO COORDINATE & PROVIDE RESIDENT PARKING, PLACEMENT OF CURB SHALL BE STAGED IN TWO PHASES, HALF OF THE ROAD AT A TIME.

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DESIGNED: JUL
DRAWN: JBK
CHECKED: DDB
DATE: APRIL 21ST, 2026
LIC. NO.: 26757

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.

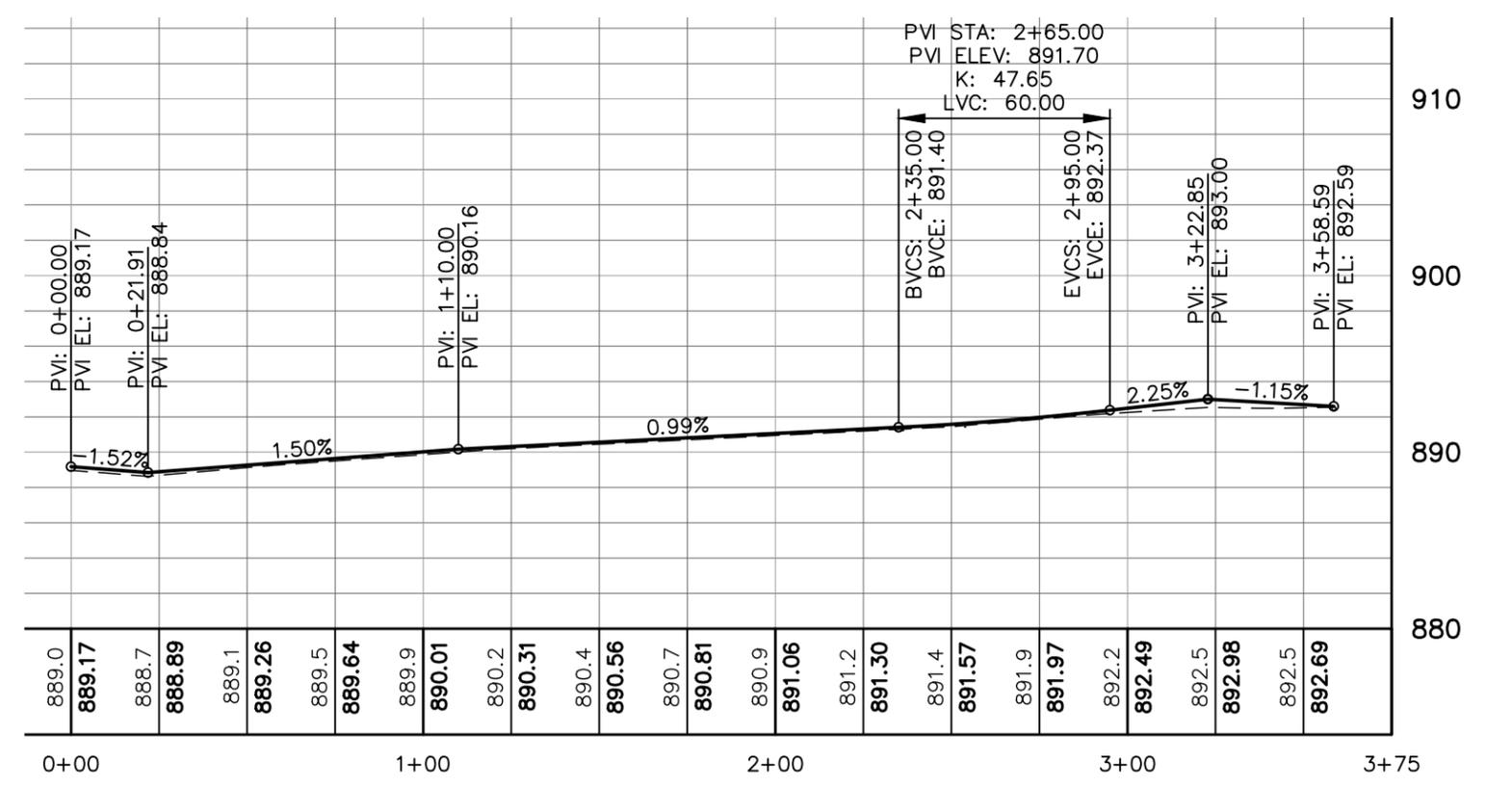
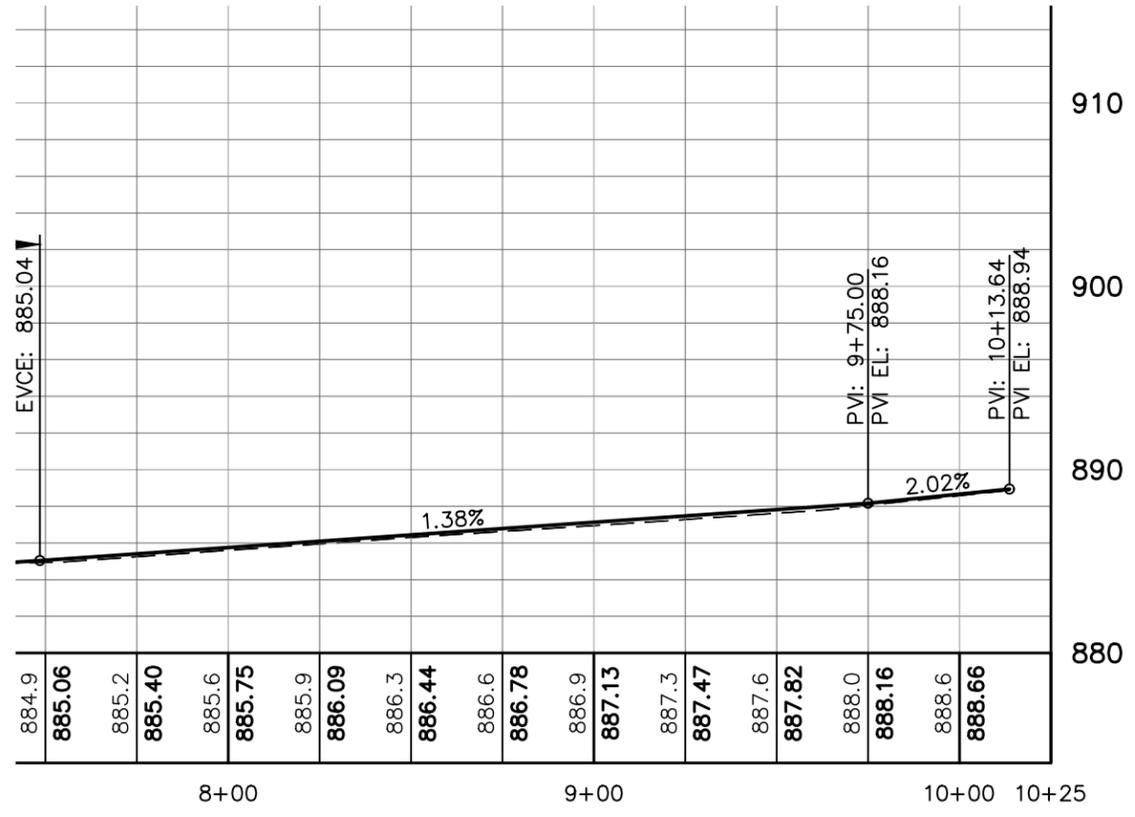
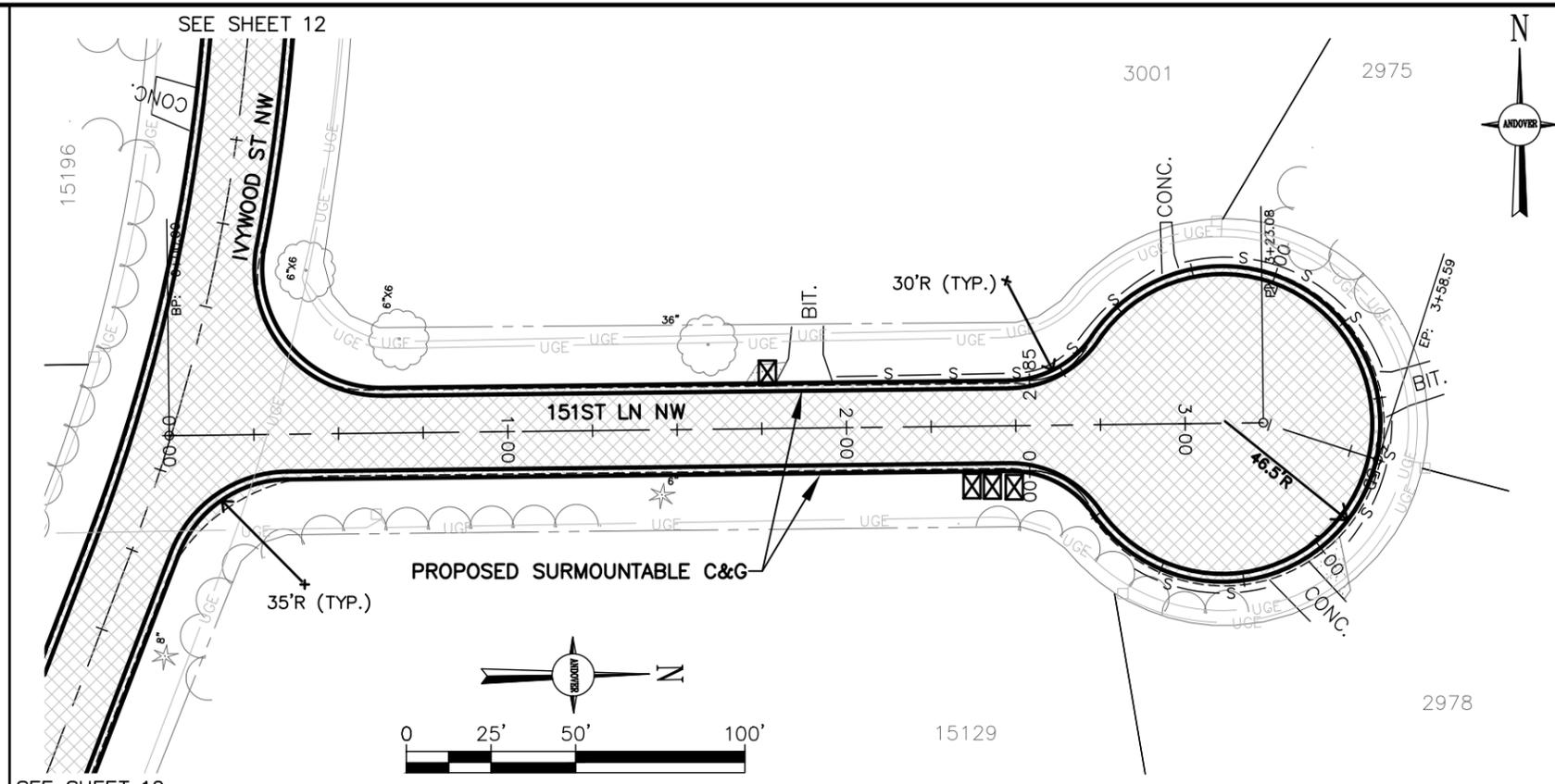
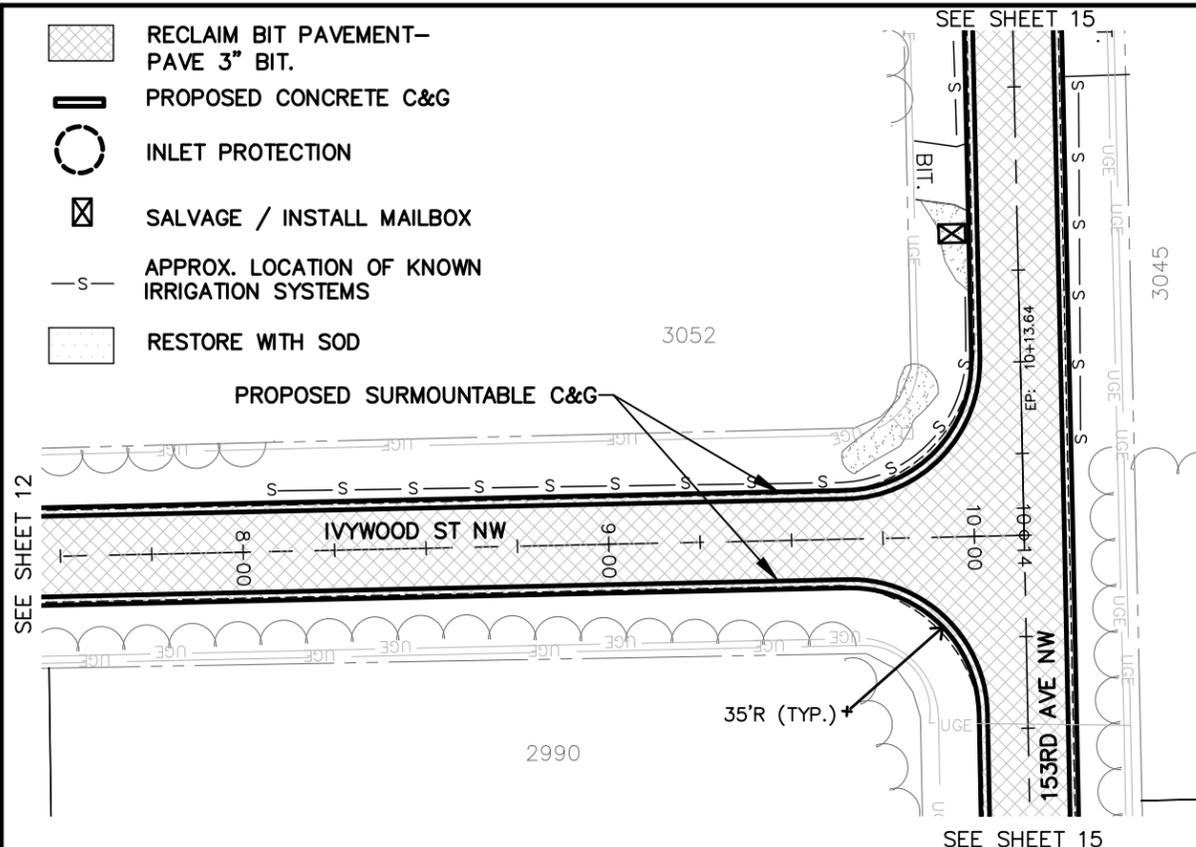
David D. Berkowitz
DAVID D. BERKOWITZ
TYPED OR PRINTED NAME



2026 STREET RECON (C.P. 26-02B)
KADLEC ESTAES

TYPICAL SECTIONS
SHEET NO. 11 OF 49 SHEETS

-  RECLAIM BIT PAVEMENT-
PAVE 3" BIT.
-  PROPOSED CONCRETE C&G
-  INLET PROTECTION
-  SALVAGE / INSTALL MAILBOX
-  APPROX. LOCATION OF KNOWN
IRRIGATION SYSTEMS
-  RESTORE WITH SOD



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DESIGNED: JUL
DRAWN: JBK
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
SIGNATURE: DAVID D. BERKOWITZ
DATE: APRIL 21ST, 2026 LIC. NO.: 26757



2026 STREET RECON (C.P. 26-02B)
KADLEC ESTAES

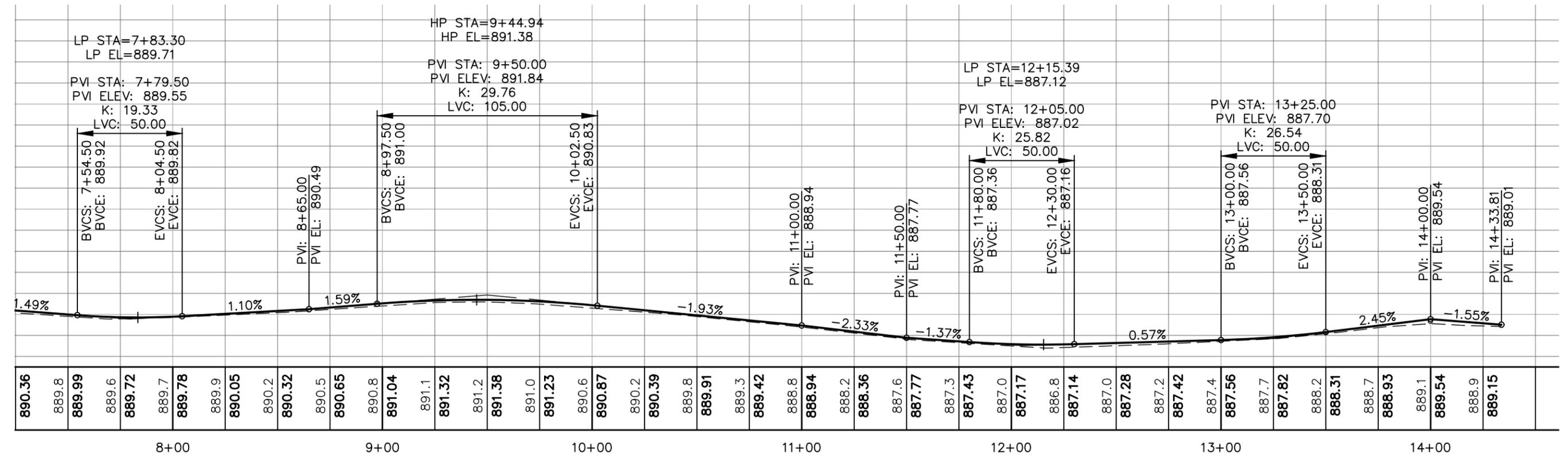
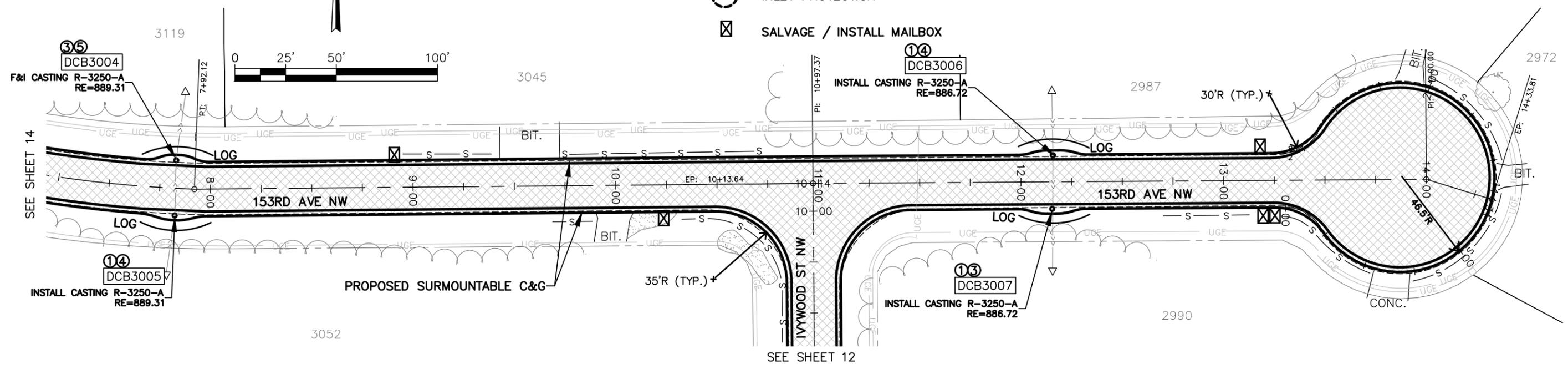
REMOVALS, PLAN/PROFILE
SHEET NO. 13 OF 49 SHEETS



-  RECLAIM BIT PAVEMENT-PAVE 3" BIT.
-  PROPOSED CONCRETE C&G
-  INLET PROTECTION
-  SALVAGE / INSTALL MAILBOX

—s— APPROX. LOCATION OF KNOWN IRRIGATION SYSTEMS

- KEYNOTES:
- ① SALVAGE & INSTALL CASTING
 - ② MUD EXISTING CASTING RINGS
 - ③ MUD DOGHOUSE(S)
 - ④ FILL SUMP/POUR INVERT
 - ⑤ REMOVE CASTING



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DESIGNED: JVL
DRAWN: JBK
CHECKED: DDB

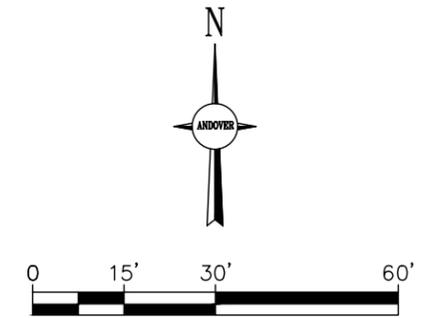
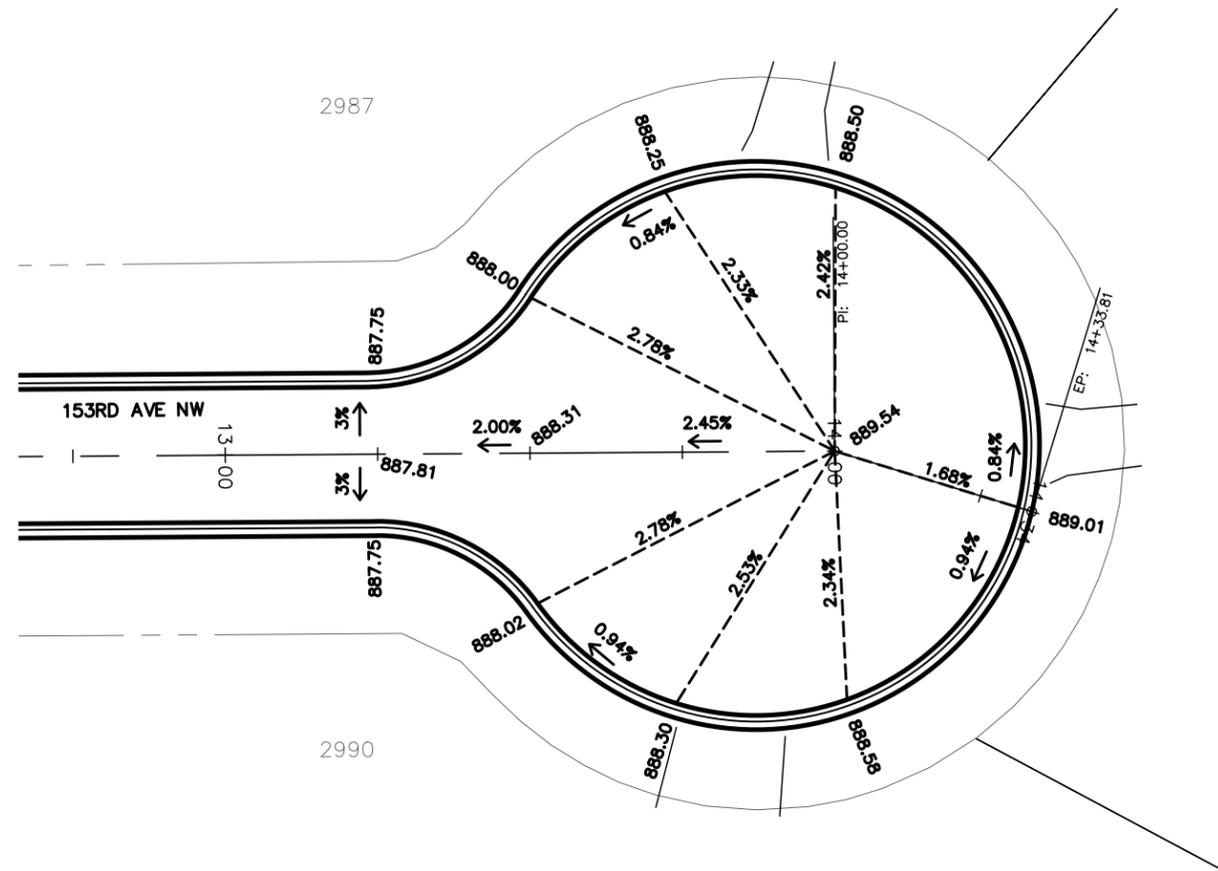
I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

David D. Berkowitz
SIGNATURE: DAVID D. BERKOWITZ
DATE: APRIL 21ST, 2026 LIC. NO.: 26757

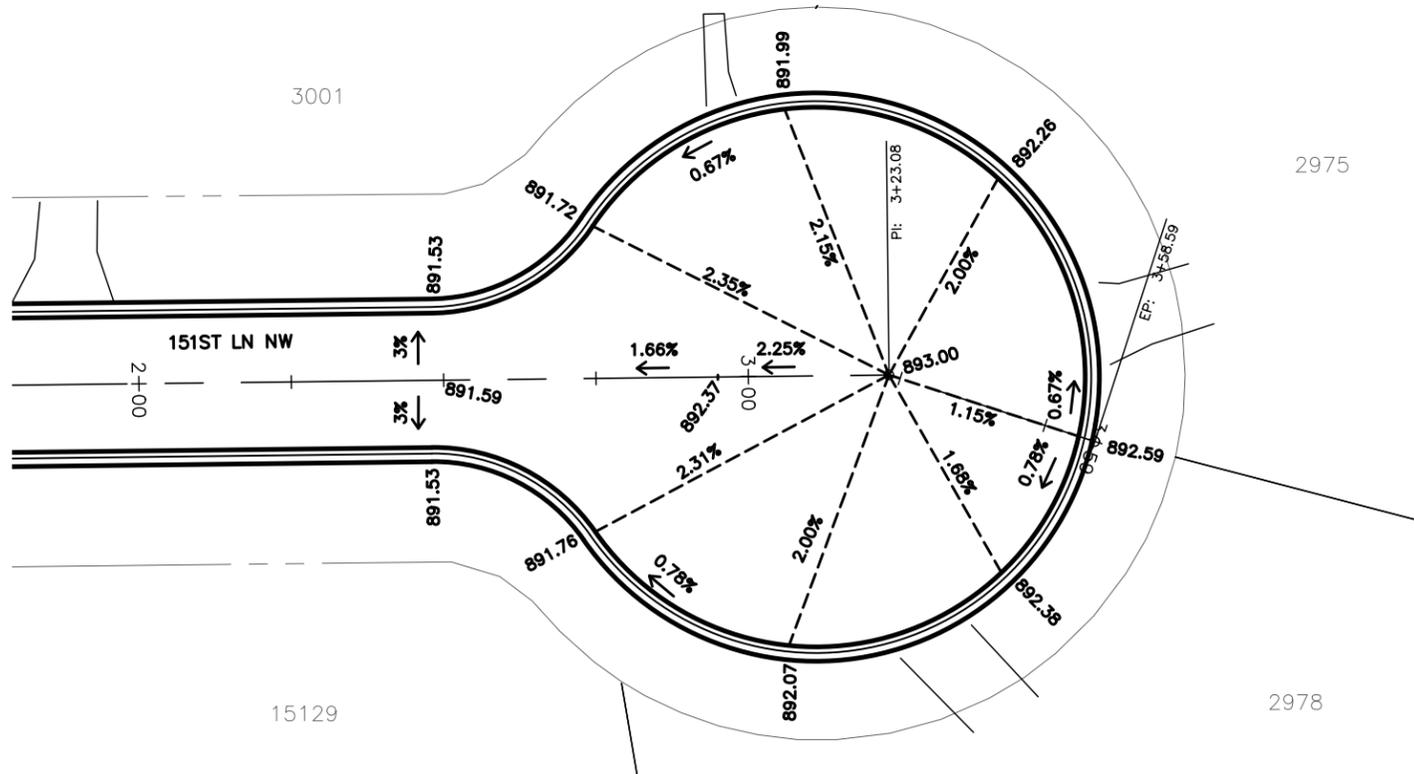


2026 STREET RECON (C.P. 26-02B)
KADLEC ESTAES

REMOVALS, PLAN/PROFILE
SHEET NO. 15 OF 49 SHEETS



NOTES:
CURB ELEVATIONS ARE TO TOP
BACK OF CURB UNLESS NOTED.



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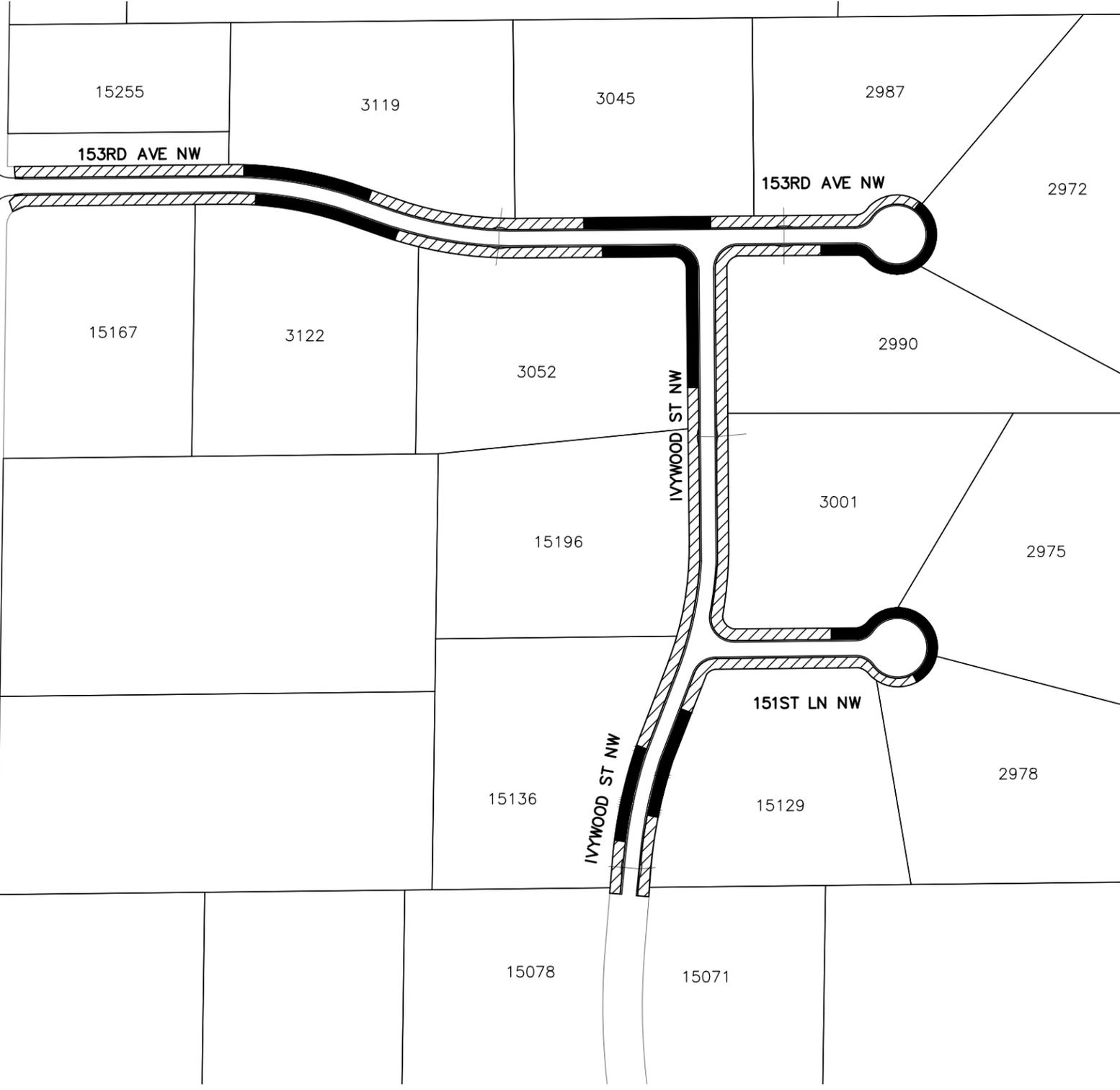
DESIGNED: J.L.
DRAWN: J.B.K.
CHECKED: D.D.B.
I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
David D. Berkowitz
SIGNATURE: DAVID D. BERKOWITZ
DATE: FEBRUARY 12TH, 2026 LIC. NO.: 28757
TYPED OR PRINTED NAME



2026 STREET RECON (C.P. 26-02B)
KADLEC ESTAES

CUL DE SAC GRADES
SHEET NO. 16 OF 49 SHEETS

ROUND LAKE BLVD (CSAH 9)



NOTE: BACKFILL DISTURBED BOULEVARDS WITH 4" MIN. TOPSOIL BORROW.

NOTE: THE SOD AND SEED AREAS SHOWN ARE PRELIMINARY. FINAL AREAS WILL BE DETERMINED ONSITE BY ENGINEER

-  = RESTORE MAINTAINED AREAS WITH TOPSOIL, SOD & FERTILIZER
-  = RESTORE UNMAINTAINED AREAS WITH TOPSOIL, SEED, FERTILIZER AND HYDRAULIC MULCH MATRIX.



NO SCALE

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DESIGNED: JVL
 DRAWN: JBK
 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: *David D. Berkowitz*
 DATE: APRIL 21ST, 2026 LIC. NO. 28757
 TYPED OR PRINTED NAME: DAVID D. BERKOWITZ



2026 STREET RECON (C.P. 26-02B)
KADLEC ESTAES

RESTORATION PLAN
SHEET NO. 17 OF 49 SHEETS