

LEGEND:

|                                    |  |
|------------------------------------|--|
| EXST'G ROW:                        |  |
| TEMPORARY EASEMENT:                |  |
| PERMANENT EASEMENT:                |  |
| FENCE:                             |  |
| ALIGNMENT STATIONS:                |  |
| ALIGNMENT POINTS:                  |  |
| WATER LINE:                        |  |
| ABANDONED WATER LINE:              |  |
| GAS LINE:                          |  |
| ABANDONED GAS LINE:                |  |
| SANITARY SEWER:                    |  |
| STORM SEWER:                       |  |
| PERFORATED PIPE DRAIN:             |  |
| UNDERGROUND ELECTRICAL LINE:       |  |
| OVERHEAD ELECTRICAL LINE:          |  |
| UNDERGROUND FIBER OPTIC LINES:     |  |
| UNDERGROUND CATV LINES:            |  |
| UNDERGROUND TELEPHONE LINES:       |  |
| ABANDONED CATV LINES:              |  |
| UNDERGROUND ELECTRIC LINES:        |  |
| SIGNAL LOOP LINES:                 |  |
| LIGHT POLE:                        |  |
| LIGHT POLE W/<br>PARKING METER(S): |  |
| PARKING METER(S):                  |  |
| SIGNAL POLE:                       |  |
| SIGNAL CABINET:                    |  |
| HAND HOLE:                         |  |
| ELECTRIC BOX:                      |  |
| JUNCTION BOX:                      |  |
| ELECTRIC METER:                    |  |
| ELECTRIC MANHOLE:                  |  |
| TELE. MANHOLE (ABAND):             |  |
| WATER VALVE:                       |  |
| WATER SHUT OFF VALVE:              |  |
| HYDRANT:                           |  |
| VALVE PIT:                         |  |
| GAS VALVE:                         |  |
| SANITARY MANHOLE:                  |  |
| STORM MANHOLE:                     |  |
| CATCH BASIN:                       |  |
| STEAM MANHOLE:                     |  |
| SIGNAL CABINET:                    |  |
| ELEC. BOX:                         |  |
| BOLLARD:                           |  |
| FLAG POLE:                         |  |
| VENT PIPE:                         |  |
| MAILBOX:                           |  |
| TREE / SHRUB:                      |  |
| ENTRANCE OR DRIVE<br>LOCATION:     |  |
| SIGN:                              |  |
| SOIL BORING:                       |  |
| HORIZONTAL CONTROL<br>POINT:       |  |
| BUILDING:                          |  |

NOTE: REFER TO INDIVIDUAL PLAN SECTIONS FOR ADDITIONAL LEGEND INFORMATION.

# MINNESOTA DEPARTMENT OF TRANSPORTATION SAINT LOUIS COUNTY

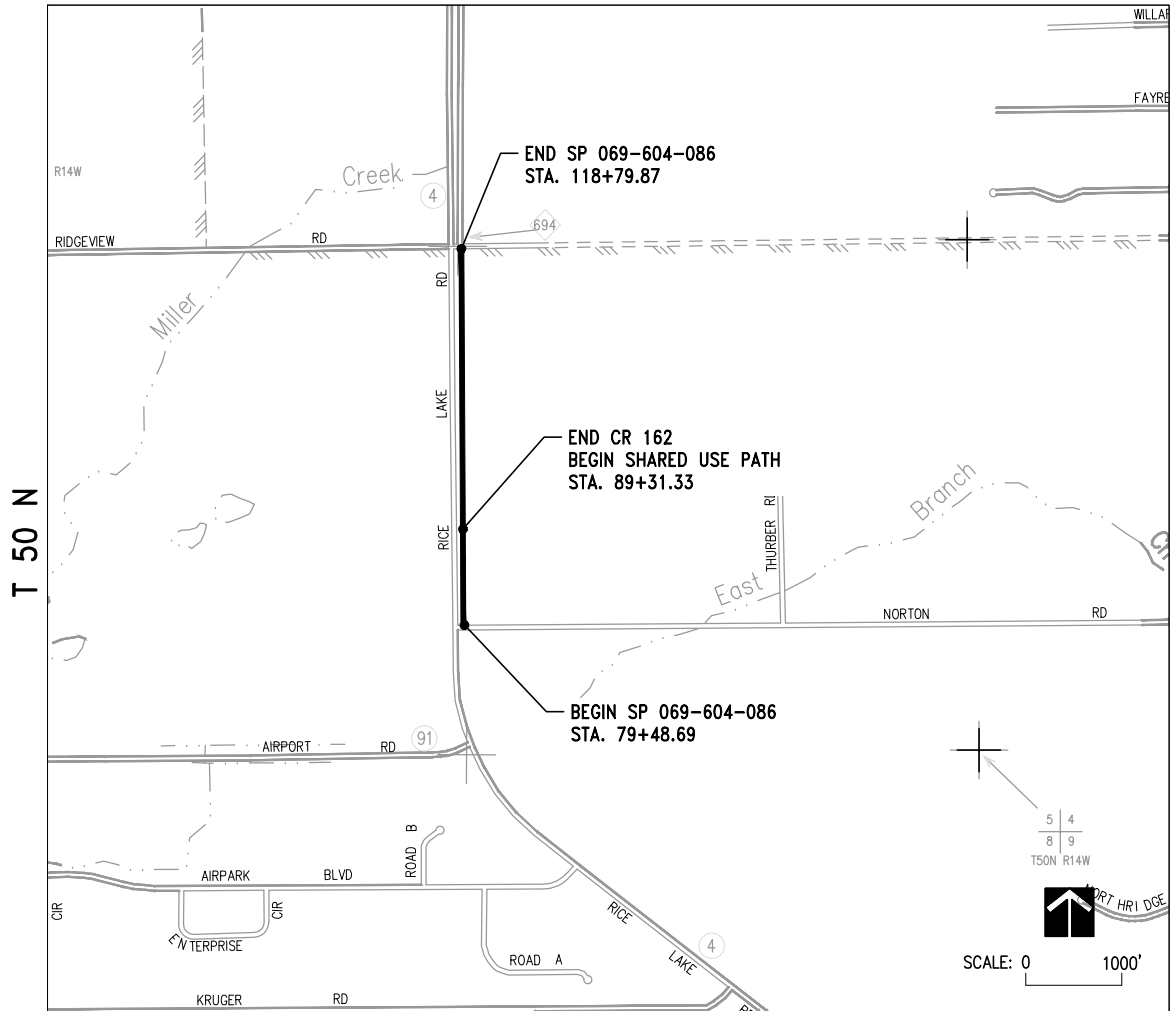
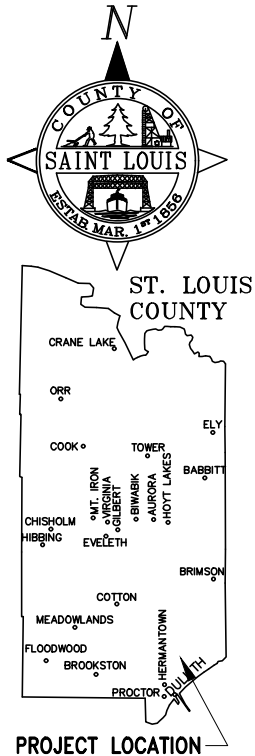
## CONSTRUCTION PLAN FOR: GRADING, BITUMINOUS SURFACING, RECLAMATION AND ADA IMPROVEMENTS

LOCATED ON CR 162 AND ADJACENT TO CSAH 4 IN CITY OF DULUTH  
FROM NORTON RD TO CR 694

STATE PROJ. NO. 069-604-086

COUNTY PROJ. NO. 0004-981495

|                   |          |      |       |       |
|-------------------|----------|------|-------|-------|
| GROSS LENGTH      | 3,931.18 | FEET | 0.745 | MILES |
| BRIDGES-LENGTH    | N/A      | FEET | N/A   | MILES |
| EXCEPTIONS-LENGTH | N/A      | FEET | N/A   | MILES |
| NET LENGTH        | 3,931.18 | FEET | 0.745 | MILES |



UTILITY NOTE

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

SCALES

|         |                              |
|---------|------------------------------|
| PLAN    | 20 ft.                       |
| PROFILE | 20 ft. 5 ft.<br>HORIZ. VERT. |

R 14 W



PLAN REVISIONS

| DATE | SHEET NO. | APPROVED BY |
|------|-----------|-------------|
|      |           |             |
|      |           |             |
|      |           |             |

MINN. PROJ NO. \_\_\_\_\_

GOVERNING SPECIFICATIONS

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

ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MOST RECENT EDITION OF  
THE MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MN MUTCD) AND  
THE MINNESOTA TEMPORARY TRAFFIC CONTROL FIELD MANUAL.

INDEX OF SHEETS

| SHEET NO. | DESCRIPTION                      |
|-----------|----------------------------------|
| 1         | TITLE SHEET                      |
| 2         | GENERAL LAYOUT                   |
| 3         | CONSTRUCTION NOTES               |
| 4-5       | STATEMENT OF ESTIMATE QUANTITIES |
| 6-8       | TABULATIONS                      |
| 9-10      | TYPICAL SECTIONS                 |
| 11-12     | CONSTRUCTION DETAILS             |
| 13-16     | EXISTING CONDITIONS AND REMOVALS |
| 17-25     | PLAN & PROFILE                   |
| 26-29     | PAVEMENT MARKINGS & SIGNING PLAN |
| 30-31     | SWPPP NARRATIVE                  |
| 32-39     | EROSION CONTROL PLAN             |
| 40-41     | TRAFFIC CONTROL PLAN             |
| 42-55     | CROSS SECTIONS                   |

- THIS PLAN CONTAINS 55 SHEETS -

SHARED USE PATH DESIGN DESIGNATION

|                 |            |                                  |         |
|-----------------|------------|----------------------------------|---------|
| Shoulder Width  | = 2.0 ft.  | Design Speed                     | 20 MPH  |
| Bike Lane Width | = 10.0 ft. | Based on STOPPING Sight Distance |         |
|                 |            | Height Of Eye                    | 4.5 ft. |
|                 |            | Height of object                 | 0 ft.   |

CR 162 DESIGN DESIGNATION

|                         |                  |                                  |              |
|-------------------------|------------------|----------------------------------|--------------|
| R VALUE = 10            | ESALS = <100,000 | Design Speed                     | 25 MPH       |
| ADT (Current Year) 2023 | = 20             | Based on STOPPING Sight Distance |              |
| ADT (Future Year) 2043  | = 20             | Height Of Eye                    | 3.5 ft.      |
| HCADT (Current)         | = ---            | Height of object                 | 2.0 ft.      |
| HCADT (Future)          | = ---            | Classification                   | LOCAL ROAD   |
| D (Directional Distr.)  | = 50-50%         |                                  |              |
| T (Heavy Commercial)    | = ---            |                                  |              |
| Proj. Soil Factor       | = N/A            | Traffic Lanes                    | 2 @ 12' Each |
| Shoulder Width          | = 2.0 ft.        | Turn Lanes                       | N/A          |
| Bike Lane Width         | = N/A            | Parking Lanes                    | N/A          |
| Design Loading          | = 10 TON         |                                  |              |

DESIGNERS (LHB) M. Goplin, Z. Johnson, R. Roberts, B. Putnam, P. Barden

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.

PRINT NAME: MEGAN GOPLIN

SIGNATURE: \_\_\_\_\_

DATE: X/XX/XX LIC. #: 53018

Approved: St. Louis County Highway Engineer Date: \_\_\_\_\_

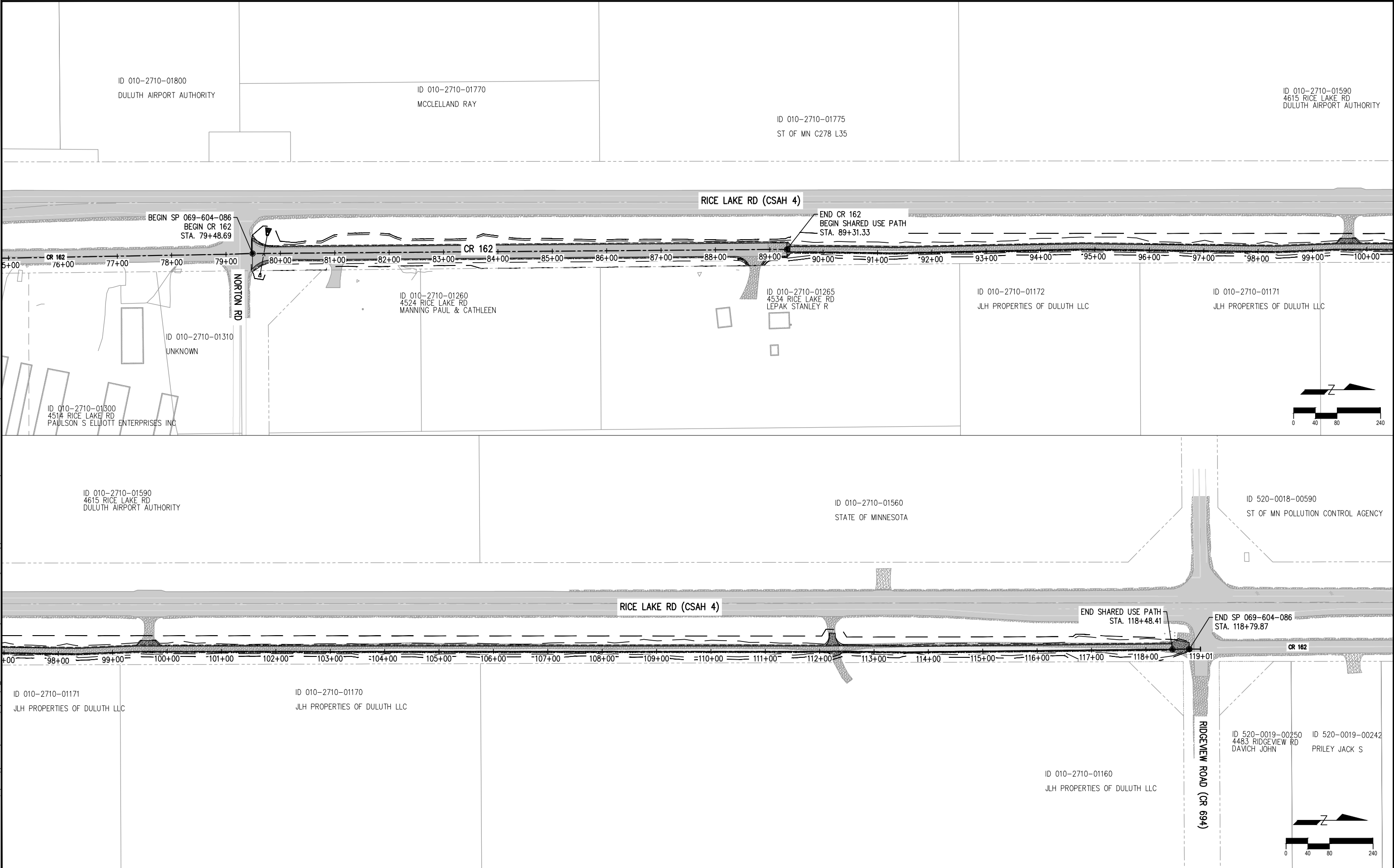
District State Aid Engineer: Reviewed for Compliance  
with State Aid and/or Federal Aid Rules/Policy Date: \_\_\_\_\_

State Aid Engineer: Approved for State Aid and/or Federal Aid Funding Date: \_\_\_\_\_

ST LOUIS COUNTY PROJECT: SP 069-604-086

CP 0004-981495

SHEET 1 OF 55 SHEETS



|          |      |                      |          |                                                                                                                                                                                                                                                                                                                 |                                                                                       |                               |      |                                                     |                                    |
|----------|------|----------------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------------------------------|------|-----------------------------------------------------|------------------------------------|
|          |      |                      |          | I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.<br>PRINTED NAME: <u>MEGAN GOPLIN</u> LIC. NO. <u>53018</u><br>SIGNATURE: _____ DATE <u>__/__/2026</u> |  | ST LOUIS COUNTY CP0004-490685 | DR:  | PROJECT:<br><br>RICE LAKE ROAD -<br>SHARED USE PATH | SHEET TITLE:<br><br>GENERAL LAYOUT |
| REV. NO. | DATE | REVISION DESCRIPTION | APPROVED |                                                                                                                                                                                                                                                                                                                 |                                                                                       | SP 069-604-086                | DES: |                                                     |                                    |

PLOT DATE: 6/30/2026 11:14:52 AM FILE: G:\24Pro\240652\500 Drawings\Civil\01 Shared Use Path - (Norton Rd to Ridgeview Rd)\240652 031 Construction Notes - Shared Use Path.dwg

GENERAL CONSTRUCTION NOTES

WHENEVER THE WORD "INCIDENTAL" IS USED IN THIS PLAN IT SHALL MEAN NO DIRECT PAYMENT WILL BE MADE FOR THAT ITEM.

WHENEVER THE PHRASE "MIN." IS USED IN THIS PLAN, IT SHALL MEAN THE WORD MINIMUM.

ALL SLOPES IN THIS PLAN ARE 1 VERTICAL TO X HORIZONTAL.

ALL CONSTRUCTION DEWATERING SHALL BE CONSIDERED INCIDENTAL.

UNSUITABLE SOILS ARE DEFINED AS SOILS WHICH DO NOT MEET OR ARE NOT MANUFACTURED TO MEET ANY OF THE DEFINED CATEGORIES IN SPEC. 2106. THESE SOILS ARE THEREFORE NOT REUSABLE AS STRUCTURAL BACKFILL OR EMBANKMENT.

ALL TOPSOIL SALVAGE AND RE-USE SHALL BE INCLUDED IN THE EXCAVATION – COMMON PAY ITEM.

AVERAGE INPLACE PAVEMENT THICKNESSES ARE PROVIDED ON THE TYPICAL SECTION SHEETS. THE CONTRACTOR SHALL EXPECT INPLACE PAVEMENT DEPTHS AND COMPOSITION TO VARY. NO ADJUSTMENT IN UNIT PRICES SHALL BE ALLOWED BASED ON VARYING INPLACE PAVEMENT THICKNESS OR COMPOSITION.

PRIOR TO PLACEMENT OF AGGREGATE BASE, THE BOTTOM OF EXCAVATION, AND/OR EXISTING BASE MATERIAL MUST BE SHAPED AND COMPACTED BY THE QUALITY COMPACTION METHOD WITH A MINIMUM OF 4 PASSES BY AN APPROVED ROLLER (INCIDENTAL).

ALL MATERIAL NOT UTILIZED ON THIS PROJECT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND DISPOSED OF OFF THE R/W IN ACCORDANCE WITH SPEC. 2104.

ALL AREAS DISTURBED BY THE CONTRACTOR'S EQUIPMENT WHICH ARE OUTSIDE THE PLANNED CONSTRUCTION LIMITS SHALL BE RESTORED, AS APPROVED BY THE ENGINEER, AT THE CONTRACTOR'S EXPENSE AND AT NO ADDITIONAL COST TO THE COUNTY.

THE CONTRACTOR IS ADVISED THAT THERE SHALL BE NO STOCKPILE OF MATERIALS ON SITE OUTSIDE THE PROJECT CONSTRUCTION LIMITS UNLESS APPROVED BY THE ENGINEER.

ANY DAMAGE TO INPLACE CONDITIONS NOT DESIGNATED FOR REMOVAL SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

PROVIDE A SAWCUT WHERE PLACING NEW PAVEMENT ADJACENT TO IN-PLACE PAVEMENT TO ENSURE A UNIFORM JOINT. PAID FOR AS SAWING BITUMINOUS PAVEMENT (FULL DEPTH).

REMOVALS

REFER TO CONSTRUCTION CHARTS, REMOVALS PLANS, SITE PLANS, AND SPECIAL PROVISIONS FOR REQUIREMENTS.

BITUMINOUS SURFACING, CONCRETE ITEMS, ABANDONED UTILITY ITEMS, OR ANY OTHER MATERIALS WHICH MAY BE ENCOUNTERED DURING CONSTRUCTION THAT ARE NOT SUITABLE FOR SALVAGE OR ROADWAY CONSTRUCTION SHALL BE DISPOSED OF BY THE CONTRACTOR AT AN APPROVED DISPOSAL SITE AND SHALL BE INCLUDED FOR PAYMENT UNDER REMOVAL PAY ITEMS OR SHALL BE INCIDENTAL WITH NO ADDITIONAL COMPENSATION THEREFORE.

THE PROPOSED SHARED USE PATH ALIGNMENT FOLLOWS THE ABANDONED STRETCH OF CR 162. IT IS ANTICIPATED THAT REMNANTS OF OLD ASPHALT PAVEMENT, AS WELL AS AREAS OF ORGANIC MATERIAL, WILL BE ENCOUNTERED DURING CONSTRUCTION. REMOVAL OF THESE MATERIALS IN PREPARATION OF THE SUB-GRADE SHALL BE PAID FOR AS EXCAVATION-COMMON.

TURF ESTABLISHMENT

TURF ESTABLISHMENT SHALL BE PLACED AS SHOWN ON THE EROSION CONTROL PLANS AND AT THE RATES SHOWN ON THIS SHEET. TURF ESTABLISHMENT INCLUDES THE FOLLOWING:

- SUBSOILING
- SOIL BED PREPARATION
- COMMON TOPSOIL BORROW
- FERTILIZER
- ROLLED EROSION PREVENTION
- SEEDING
- WEED SPRAYING

SURVEY

HORIZONTAL DATUM IS SAINT LOUIS COUNTY TRANSVERSE MERCATOR 1996 (SLCTM\_96)  
VERTICAL DATUM IS NAVD 88 USING VERTICAL CONTROL MONUMENT (EL=1297.18)

UTILITIES

THE CONTRACTOR IS HEREBY REMINDED OF HIS RESPONSIBILITY UNDER STATE LAW TO CONTACT ALL UTILITIES THAT MAY HAVE FACILITIES IN THE AREA. CONTACT MUST BE MADE THROUGH GOPHER STATE ONE-CALL: 1-800-252-1166.

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

THE FOLLOWING UTILITIES HAVE FACILITIES WITHIN THE PROJECT LIMITS.

| DIRECTORY OF KNOWN UTILITIES |           |              |
|------------------------------|-----------|--------------|
| COMPANY                      | SERVICE   | TELEPHONE    |
|                              |           |              |
| CITY OF DULUTH               | GAS       | 218-730-5068 |
| CONSOLIDATED TEL. COMPANY    | FIBER     | 218-966-0048 |
| LUMEN (CENTURYLINK)          | TELEPHONE | 651-378-2915 |
| MIDCO                        | FIBER     | 701-319-0233 |
| MINNESOTA POWER              | ELECTRIC  | 218-576-2559 |
| SPECTRUM (CHARTER)           | FIBER     | 218-522-0197 |
|                              |           |              |

NO UTILITY RELOCATIONS AND ADJUSTMENTS WERE IDENTIFIED FOR THIS PHASE OF CONSTRUCTION. REFER TO THE SPECIAL PROVISIONS FOR MORE INFORMATION.

| BASIS FOR PLANNED QUANTITIES                        |                                     |
|-----------------------------------------------------|-------------------------------------|
|                                                     |                                     |
| BITUMINOUS MIXTURES                                 | 120 LBS PER SQ YD PER INCH OF DEPTH |
| BITUMINOUS MATERIAL FOR TACK COAT (CSS-1 OR CSS-1H) | 0.06 GALLONS PER SQ YD (UNDILUTED)  |
| RAPID STABILIZATION METHOD 3                        | 6000 GALLONS PER ACRE               |
| SEED NORTHEAST ROADSIDE                             | 26 LBS/ACRE                         |
| FERTILIZER TYPE 3 (SLOW RELEASE) (22-5-10)          | 350 LBS/ACRE                        |
|                                                     |                                     |

THE LISTED STANDARD PLANS AND/OR PLATES ARE INCORPORATED BY REFERENCE INTO THE PLAN SET. THE CERTIFICATION ON THIS SHEET SIGNIFIES THE ENGINEER SELECTED THE STANDARD PLANS AND PLATES AS APPROPRIATE FOR USE ON THE PROJECT.

| MnDOT STANDARD PLATES                                                      |                                            |                 |
|----------------------------------------------------------------------------|--------------------------------------------|-----------------|
| THE FOLLOWING STANDARD PLATES APPROVED BY FHWA SHALL APPLY ON THIS PROJECT |                                            |                 |
| PLATE NO.                                                                  | DESCRIPTION                                | APPR./REV. DATE |
|                                                                            |                                            |                 |
| 3000M                                                                      | REINFORCED CONCRETE PIPE                   | 03-05-2020      |
| 3133D                                                                      | RIPRAP AT RCP OUTLETS                      | 12-09-2013      |
| 7038A                                                                      | DETECTABLE WARNING SURFACE TRUNCATED DOMES | 01-09-2020      |
| 8000K                                                                      | TEMPORARY CHANNELIZERS – TYPE A            | 05-14-2021      |
| 9350D                                                                      | MAILBOX SUPPORT – SWING-AWAY TYPE          | 12-01-2025      |
|                                                                            |                                            |                 |

| MnDOT STANDARD PLANS                                                      |                                                                                     |                 |
|---------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------|
| THE FOLLOWING STANDARD PLANS APPROVED BY FHWA SHALL APPLY ON THIS PROJECT |                                                                                     |                 |
| PLAN NO.                                                                  | DESCRIPTION                                                                         | APPR./REV. DATE |
|                                                                           |                                                                                     |                 |
| 5-297.404                                                                 | PERMANENT EROSION CONTROL – ALONG ROAD, DITCHES, AND FLUMES                         | 02-28-2017      |
| 5-297.405                                                                 | TEMPORARY SEDIMENT CONTROL – SILT CURTAIN OR SILT FENCE TYPE TB (SHEETS 5,6, AND 8) | 02-28-2017      |
| 5-297.701                                                                 | STANDARD SIGN PLACEMENT                                                             | 08-09-2023      |
| 5-297.718                                                                 | SQUARE-TUBE SIGN MOUNTING DETAILS                                                   | 08-09-2023      |
| 5-297.719                                                                 | SQUARE-TUBE SIDE-BY-SIDE SIGN MOUNTING DETAILS                                      | 08-09-2023      |
| 5-297.720                                                                 | SQUARE TUBE NO PASSING ZONE SIGN MOUNTING DETAILS                                   | 08-09-2023      |
| 5-297.721                                                                 | THREE-WALL BASE FOR SQUARE-TUBE RISE POST                                           | 11-29-2022      |
| 5-297.722                                                                 | FIN BASE FOR SQUARE-TUBE RISER POST IN SOIL                                         | 08-09-2023      |
| 5-297.724                                                                 | SLIP BASE ASSEMBLY FOR SQUARE-TUBE RISE POST                                        | 08-09-2023      |
|                                                                           |                                                                                     |                 |

|          |      |                      |          |                                                                                                                                                                                                                                                                                                       |                                                                                       |                               |                         |                                           |                                 |
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| REV. NO. | DATE | REVISION DESCRIPTION | APPROVED |                                                                                                                                                                                                                                                                                                       |                                                                                       | SP 069-604-086                | CHK: _____              |                                           | SHEET NO. 03 OF 55 SHEETS       |

Plot Date: 7/3/2026 12:49:54 PM File: Q:\24Pro\240652\500 Drawings\Civil\01 Shared Use Path - (Norton Rd to Ridgeview Rd)\240652\_03.0\_SFQ - Shared Use Path.dwg

| STATEMENT OF ESTIMATED QUANTITIES |      |           |          |                                            |          |                                    |
|-----------------------------------|------|-----------|----------|--------------------------------------------|----------|------------------------------------|
| NOTES                             | TAB. | SHEET NO. | ITEM NO. | ITEM DESCRIPTION                           | UNITS    | SP 069-604-086<br>CP 0004-981495   |
|                                   |      |           |          |                                            |          | TOTAL ESTIMATED<br>QUANTITY<br>(A) |
|                                   |      |           | 2021.501 | MOBILIZATION                               | LUMP SUM | 1                                  |
|                                   |      |           |          |                                            |          |                                    |
| 3                                 |      |           | 2101.505 | GRUBBING                                   | ACRE     | 0.10                               |
|                                   |      |           |          |                                            |          |                                    |
|                                   | I    | 8         | 2104.502 | REMOVE SIGN                                | EACH     | 2                                  |
|                                   | A    | 9         | 2104.502 | REMOVE MAIL BOX SUPPORT                    | EACH     | 2                                  |
|                                   | A    | 6         | 2104.503 | SAWING BITUMINOUS PAVEMENT (FULL DEPTH)    | LIN FT   | 82                                 |
|                                   | A    | 6         | 2104.503 | REMOVE PIPE CULVERTS                       | LIN FT   | 100                                |
|                                   | A    | 6         | 2104.504 | REMOVE BITUMINOUS DRIVEWAY PAVEMENT        | SQ YD    | 19                                 |
|                                   |      |           |          |                                            |          |                                    |
|                                   | D    | 6         | 2106.507 | EXCAVATION - COMMON (P)                    | CU YD    | 1 797                              |
|                                   | B,C  | 6         | 2106.507 | SELECT GRANULAR EMBANKMENT MOD 7% (CV) (P) | CU YD    | 1 394                              |
|                                   | D    | 6         | 2106.507 | COMMON EMBANKMENT (CV) (P)                 | CU YD    | 605                                |
|                                   |      |           |          |                                            |          |                                    |
|                                   | E    | 7         | 2108.504 | GEOTEXTILE FABRIC TYPE 4                   | SQ YD    | 20.8                               |
|                                   |      |           |          |                                            |          |                                    |
|                                   | B,C  | 6         | 2118.507 | AGGREGATE SURFACING (CV) CLASS 5 (P)       | CU YD    | 215                                |
|                                   |      |           |          |                                            |          |                                    |
|                                   | B,C  | 6         | 2211.507 | AGGREGATE BASE (CV) CLASS 5 (P)            | CU YD    | 1 273                              |
|                                   |      |           |          |                                            |          |                                    |
|                                   | A    | 6         | 2215.504 | FULL DEPTH RECLAMATION                     | SQ YD    | 2 515                              |
|                                   |      |           |          |                                            |          |                                    |
|                                   | B,C  | 6         | 2357.506 | BITUMINOUS MATERIAL FOR TACK COAT          | GALLON   | 357                                |
|                                   |      |           |          |                                            |          |                                    |
|                                   | C    | 6         | 2360.509 | TYPE SP 9.5 WEARING COURSE MIXTURE (2,C)   | TON      | 745                                |
|                                   | B    | 6         | 2360.509 | TYPE SP 9.5 WEARING COURSE MIXTURE (3,C)   | TON      | 635                                |
|                                   |      |           |          |                                            |          |                                    |
| 2                                 | E    | 7         | 2501.502 | 15" RC PIPE APRON                          | EACH     | 2                                  |
| 2                                 | E    | 7         | 2501.503 | 15" RC PIPE CULVERT                        | LIN FT   | 78                                 |
|                                   |      |           |          |                                            |          |                                    |
|                                   | E    | 7         | 2511.507 | RANDOM RIPRAP CLASS III                    | CU YD    | 4.8                                |
|                                   |      |           |          |                                            |          |                                    |
|                                   | C    | 6         | 2521.518 | 6" CONCRETE WALK                           | SQ FT    | 58                                 |
|                                   |      |           |          |                                            |          |                                    |
|                                   | C    | 6         | 2531.618 | TRUNCATED DOMES                            | SQ FT    | 19                                 |
|                                   |      |           |          |                                            |          |                                    |
|                                   | B    | 6         | 2540.602 | BOLLARD                                    | EACH     | 2                                  |
|                                   | B    | 6         | 2540.602 | MAIL BOX SUPPORT                           | EACH     | 2                                  |
|                                   |      |           |          |                                            |          |                                    |
|                                   |      |           | 2563.601 | TRAFFIC CONTROL                            | LUMP SUM | 1                                  |
|                                   |      |           |          |                                            |          |                                    |

(P) DENOTES PLAN QUANTITY

SEQ NOTES

1. SHALL BE INSTALLED PRIOR TO ANY OPERATION THAT DISTURBS INPLACE VEGETATION OR SOIL.
2. TURF ESTABLISHMENT AT CULVERT INSTALLATION SITE TO BE PLACED WITHIN 24 HOURS OF THE COMPLETION OF THE CULVERT INSTALLATION.
3. COUNTY WILL CUT TREES PRIOR TO CONSTRUCTION. ANY ADDITIONAL TREES THAT ARE IDENTIFIED FOR REMOVAL DURING CONSTRUCTION SHALL BE CLEARED AND GRUBBED BY CONTRACTOR (INCIDENTAL). CONTRACTOR TO GRUB ALL STUMPS, REMOVE FELLED TREES AND CLEAN WOOD DEBRIS. CONTRACTOR SHALL PERFORM FIELD REVIEW WITH ENGINEER PRIOR TO GRUBBING. CONTRACTOR SHALL PROTECT ALL TREES AND VEGETATION NOT DESIGNATED FOR REMOVAL.
4. INSTALL AND MAINTAIN AT ALL CULVERT INLETS WITHIN AFFECTED AREA AND IMMEDIATELY DOWNSTREAM. TO BE PAID FOR ONCE AT EACH LOCATION.
5. ADDITIONAL 442 LF OF UNDISTRIBUTED QUANTITY TO BE PLACED AS NEEDED OR OTHER LOCATIONS AS DIRECTED BY THE ENGINEER.
- (A) FEDERAL RAISE FUNDS ARE CAPPED. MINIMUM 20% FOR IIJA MATCH PROGRAM STATE FUND.

|          |      |                      |          |                                                                                                                                                                                                                                                                                           |                                                                                       |                                                 |                                       |                                              |                                                                                |
|----------|------|----------------------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------------------------------------------------|---------------------------------------|----------------------------------------------|--------------------------------------------------------------------------------|
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| REV. NO. | DATE | REVISION DESCRIPTION | APPROVED |                                                                                                                                                                                                                                                                                           |                                                                                       |                                                 |                                       |                                              |                                                                                |



PLOT DATE: 7/3/2026 12:50:02 PM FILE: Q:\24Pro\240652\500 Drawings\Civil\01 Shared Use Path - (Norton Rd to Ridgeview Rd)\240652\_03.0 SEQ - Shared Use Path.dwg

| STATEMENT OF ESTIMATED QUANTITIES |      |           |          |                                                  |          |                                  |
|-----------------------------------|------|-----------|----------|--------------------------------------------------|----------|----------------------------------|
| NOTES                             | TAB. | SHEET NO. | ITEM NO. | ITEM DESCRIPTION                                 | UNITS    | SP 069-604-086<br>CP 0004-981495 |
|                                   |      |           |          |                                                  |          | (A)<br>ESTIMATED QUANTITY        |
|                                   |      |           |          |                                                  |          |                                  |
|                                   | I    | 8         | 2564.618 | SIGN                                             | SQ FT    | 36.25                            |
|                                   |      |           |          |                                                  |          |                                  |
|                                   |      |           | 2573.501 | STABILIZED CONSTRUCTION EXIT                     | LUMP SUM | 1                                |
|                                   |      |           | 2573.501 | EROSION CONTROL SUPERVISOR                       | LUMP SUM | 1                                |
| 4                                 | F    | 7         | 2573.502 | CULVERT END CONTROLS                             | EACH     | 4                                |
| 1                                 | F    | 7         | 2573.503 | SILT FENCE, TYPE MS                              | LIN FT   | 9 130                            |
| 5                                 | F    | 7         | 2573.503 | SEDIMENT CONTROL LOG TYPE COMPOST                | LIN FT   | 500                              |
|                                   |      |           |          |                                                  |          |                                  |
|                                   | G    | 7         | 2574.505 | SUBSOILING                                       | ACRE     | 0.9                              |
|                                   | G    | 7         | 2574.505 | SOIL BED PREPARATION                             | ACRE     | 2.7                              |
|                                   | G    | 7         | 2574.508 | FERTILIZER TYPE 3                                | POUND    | 622                              |
|                                   |      |           |          |                                                  |          |                                  |
|                                   | G    | 7         | 2575.504 | ROLLED EROSION PREVENTION CATEGORY 30            | SQ YD    | 8 600                            |
|                                   | G    | 7         | 2575.505 | SEEDING                                          | ACRE     | 1.8                              |
|                                   | G    | 7         | 2575.505 | WEED SPRAYING                                    | ACRE     | 0.9                              |
|                                   | G    | 7         | 2575.506 | WEED SPRAY MIXTURE                               | GALLON   | 0.09                             |
|                                   | G    | 7         | 2575.523 | RAPID STABILIZATION METHOD 3                     | M GALLON | 11                               |
|                                   | G    | 7         | 2575.608 | SEED NORTHEAST ROADSIDE                          | POUND    | 46                               |
|                                   |      |           |          |                                                  |          |                                  |
|                                   | H    | 8         | 2582.503 | 24" SOLID LINE PREFORM THERMOPLASTIC GROUND IN   | LIN FT   | 26                               |
|                                   | H    | 8         | 2582.518 | PAVEMENT MESSAGE PREFORM THERMOPLASTIC GROUND IN | SQ FT    | 68                               |
|                                   |      |           |          |                                                  |          |                                  |

SEQ NOTES

1. SHALL BE INSTALLED PRIOR TO ANY OPERATION THAT DISTURBS INPLACE VEGETATION OR SOIL.
2. TURF ESTABLISHMENT AT CULVERT INSTALLATION SITE TO BE PLACED WITHIN 24 HOURS OF THE COMPLETION OF THE CULVERT INSTALLATION.
3. COUNTY WILL CUT TREES PRIOR TO CONSTRUCTION. ANY ADDITIONAL TREES THAT ARE IDENTIFIED FOR REMOVAL DURING CONSTRUCTION SHALL BE CLEARED AND GRUBBED BY CONTRACTOR (INCIDENTAL). CONTRACTOR TO GRUB ALL STUMPS, REMOVE FELLED TREES AND CLEAN WOOD DEBRIS. CONTRACTOR SHALL PERFORM FIELD REVIEW WITH ENGINEER PRIOR TO GRUBBING. CONTRACTOR SHALL PROTECT ALL TREES AND VEGETATION NOT DESIGNATED FOR REMOVAL.
4. INSTALL AND MAINTAIN AT ALL CULVERT INLETS WITHIN AFFECTED AREA AND IMMEDIATELY DOWNSTREAM. TO BE PAID FOR ONCE AT EACH LOCATION.
5. ADDITIONAL 442 LF OF UNDISTRIBUTED QUANTITY TO BE PLACED AS NEEDED OR OTHER LOCATIONS AS DIRECTED BY THE ENGINEER.
- (A) FEDERAL RAISE FUNDS ARE CAPPED. MINIMUM 20% FOR IJJA MATCH PROGRAM STATE FUND.

|          |      |                      |          |                                                                                                                                                                                                                                                                                                       |                                                                                       |                               |                          |                                           |                                                                             |
|----------|------|----------------------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------------------------------|--------------------------|-------------------------------------------|-----------------------------------------------------------------------------|
|          |      |                      |          | I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.<br>PRINTED NAME: MEGAN GOPLIN _____ LIC. NO. 53018 _____<br>SIGNATURE: _____ DATE: 7/3/2026 |  | ST LOUIS COUNTY CP0004-490685 | DR: _____                | PROJECT: RICE LAKE ROAD - SHARED USE PATH | SHEET TITLE: STATEMENT OF ESTIMATED QUANTITIES<br>SHEET NO. 05 OF 55 SHEETS |
| REV. NO. | DATE | REVISION DESCRIPTION | APPROVED |                                                                                                                                                                                                                                                                                                       |                                                                                       | SP 069-604-086                | DES: _____<br>CHK: _____ |                                           |                                                                             |

PLOT DATE: 7/3/2026 12:50:51 PM FILE: Q:\24Pro\240652\500 Drawings\Civil\01 - Shared Use Path - (Norton Rd to Ridgeview Rd)\240652\_03.2 Tabulations - Shared Use Path.dwg

| REMOVALS                          |    |           |                    |                            |                                            |                      |                                        |                           |  | A |
|-----------------------------------|----|-----------|--------------------|----------------------------|--------------------------------------------|----------------------|----------------------------------------|---------------------------|--|---|
| STATION TO STATION                |    |           | LT / RT            | SPEC. 2104                 |                                            |                      |                                        | SPEC. 2215                |  |   |
|                                   |    |           |                    | REMOVE MAIL BOX<br>SUPPORT | SAWING BITUMINOUS<br>PAVEMENT (FULL DEPTH) | REMOVE PIPE CULVERTS | REMOVE BITUMINOUS<br>DRIVEWAY PAVEMENT | FULL DEPTH<br>RECLAMATION |  |   |
|                                   |    |           |                    | EACH                       | LIN FT                                     | LIN FT               | SQ YD                                  | SQ YD                     |  |   |
| SP 069-604-086                    |    |           |                    |                            |                                            |                      |                                        |                           |  |   |
| ALIGNMENT: CONSTRUCTION ALIGNMENT |    |           |                    |                            |                                            |                      |                                        |                           |  |   |
| 79+48.69                          | TO | 88+97.21  | LT/RT              | 2                          | 82                                         | 65                   | 19                                     | 2 515                     |  |   |
| 116+73.83                         | TO | 116+75.59 | 27.91 LT TO 7.5 RT |                            |                                            | 35                   |                                        |                           |  |   |
|                                   |    |           |                    |                            |                                            |                      |                                        |                           |  |   |
| TOTAL                             |    |           |                    | 2                          | 82                                         | 100                  | 19                                     | 2 515                     |  |   |

| EARTHWORK                         |    |           |       |         |         | D                   |                        |
|-----------------------------------|----|-----------|-------|---------|---------|---------------------|------------------------|
| STATION                           |    |           | TO    | STATION | LT / RT | SPEC. 2106          |                        |
|                                   |    |           |       |         |         | EXCAVATION – COMMON | COMMON EMBANKMENT (CV) |
|                                   |    |           |       |         |         | (P)                 | (P)                    |
|                                   |    |           |       |         |         | CU YD               | CU YD                  |
| SP 069–604–086                    |    |           |       |         |         |                     |                        |
| ALIGNMENT: CONSTRUCTION ALIGNMENT |    |           |       |         |         |                     |                        |
| 79+48.69                          | TO | 89+31.33  | LT/RT | 209     | 180     |                     |                        |
| 89+31.33                          | TO | 118+48.40 | LT/RT | 1 586   | 403     |                     |                        |
| 118+48.40                         | TO | 118+79.87 | LT/RT | 2       | 22      |                     |                        |
| TOTALS                            |    |           |       |         |         | 1 797               | 605                    |

| ROADWAY                           |    |          |         |                                        |                                  |                             |                                   |                                          |            | B                |
|-----------------------------------|----|----------|---------|----------------------------------------|----------------------------------|-----------------------------|-----------------------------------|------------------------------------------|------------|------------------|
| STATION                           | TO | STATION  | LT / RT | SPEC. 2106                             | SPEC. 2118                       | SPEC. 2211                  | SPEC. 2357                        | SPEC. 2360                               | SPEC. 2540 |                  |
|                                   |    |          |         | SELECT GRANULAR EMBANKMENT MOD 7% (CV) | AGGREGATE SURFACING (CV) CLASS 5 | AGGREGATE BASE (CV) CLASS 5 | BITUMINOUS MATERIAL FOR TACK COAT | TYPE SP 9.5 WEARING COURSE MIXTURE (3,C) | BOLLARD    | MAIL BOX SUPPORT |
|                                   |    |          |         | (P) ①                                  | (P) ①                            | (P) ①                       | ①                                 |                                          |            |                  |
|                                   |    |          |         | CU YD                                  | CU YD                            | CU YD                       | GALLON                            | TON                                      | EACH       | EACH             |
| SP 069-604-086                    |    |          |         |                                        |                                  |                             |                                   |                                          |            |                  |
| ALIGNMENT: CONSTRUCTION ALIGNMENT |    |          |         |                                        |                                  |                             |                                   |                                          |            |                  |
| 79+48.69                          | TO | 89+31.33 | LT/RT   | 34                                     | 54                               | 511                         | 163                               | 635                                      | 2          | 2                |
| TOTALS                            |    |          |         | 34                                     | 54                               | 511                         | 163                               | 635                                      | 2          | 2                |

| SHARED USE PATH                   |    |           |         |                                        |                                  |                             |                                   |                                          |                  |                 | C |
|-----------------------------------|----|-----------|---------|----------------------------------------|----------------------------------|-----------------------------|-----------------------------------|------------------------------------------|------------------|-----------------|---|
| STATION                           | TO | STATION   | LT / RT | SPEC. 2106                             | SPEC. 2118                       | SPEC. 2211                  | SPEC. 2357                        | SPEC. 2360                               | SPEC. 2521       | SPEC. 2531      |   |
|                                   |    |           |         | SELECT GRANULAR EMBANKMENT MOD 7% (CV) | AGGREGATE SURFACING (CV) CLASS 5 | AGGREGATE BASE (CV) CLASS 5 | BITUMINOUS MATERIAL FOR TACK COAT | TYPE SP 9.5 WEARING COURSE MIXTURE (2,C) | 6" CONCRETE WALK | TRUNCATED DOMES |   |
|                                   |    |           |         | (P) ①                                  | (P) ①                            | (P) ①                       | ①                                 |                                          |                  |                 |   |
|                                   |    |           |         | CU YD                                  | CU YD                            | CU YD                       | GALLON                            | TON                                      | SQ FT            | SQ FT           |   |
| SP 069-604-086                    |    |           |         |                                        |                                  |                             |                                   |                                          |                  |                 |   |
| ALIGNMENT: CONSTRUCTION ALIGNMENT |    |           |         |                                        |                                  |                             |                                   |                                          |                  |                 |   |
| 89+31.33                          | TO | 118+48.40 | LT/RT   | 1 347                                  | 153                              | 754                         | 194                               | 745                                      | 58               | 19              |   |
| 118+48.40                         | TO | 118+79.87 | LT/RT   | 13                                     | 8                                | 7                           |                                   |                                          |                  |                 |   |
|                                   |    |           |         |                                        |                                  |                             |                                   |                                          |                  |                 |   |
| TOTALS                            |    |           |         | 1 360                                  | 161                              | 762                         | 194                               | 745                                      | 58               | 19              |   |

KEY NOTES:  
① SEE OTHER CHARTS FOR ADDITIONAL QUANTITIES.

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| CULVERT                           |    |          |         |                             |                   |                     |                            | E |
|-----------------------------------|----|----------|---------|-----------------------------|-------------------|---------------------|----------------------------|---|
| STATION TO STATION                |    |          | LT / RT | SPEC. 2108                  | SPEC. 2501        |                     | SPEC. 2511                 |   |
|                                   |    |          |         | GEOTEXTILE FABRIC TYPE<br>4 | 15" RC PIPE APRON | 15" RC PIPE CULVERT | RANDOM RIPRAP CLASS<br>III |   |
|                                   |    |          |         | SQ YD                       | EACH              | LIN FT              | CU YD                      |   |
| SP 069-604-086                    |    |          |         |                             |                   |                     |                            |   |
| ALIGNMENT: CONSTRUCTION ALIGNMENT |    |          |         |                             |                   |                     |                            |   |
| 79+61.80                          | TO | 79+77.02 | LT / RT | 20.8                        | 2                 | 78                  | 4.8                        |   |
| TOTALS                            |    |          |         | 20.8                        | 2                 | 78                  | 4.8                        |   |

| EROSION CONTROL                   |    |           |         |                      |                     |                                   | F |
|-----------------------------------|----|-----------|---------|----------------------|---------------------|-----------------------------------|---|
| STATION TO STATION                |    |           | LT / RT | SPEC. 2573           |                     |                                   |   |
|                                   |    |           |         | CULVERT END CONTROLS | SILT FENCE, TYPE MS | SEDIMENT CONTROL LOG TYPE COMPOST |   |
|                                   |    |           |         | EACH                 | LIN FT              | LIN FT                            |   |
| SP 069-604-086                    |    |           |         |                      |                     |                                   |   |
| ALIGNMENT: CONSTRUCTION ALIGNMENT |    |           |         |                      |                     |                                   |   |
| 79+48.69                          | TO | 89+31.33  | LT/RT   | 2                    | 1 756               | 58                                |   |
| 89+31.33                          | TO | 118+48.40 | LT/RT   | 2                    | 7 336               |                                   |   |
| 118+48.40                         | TO | 118+79.87 | LT/RT   |                      | 38                  |                                   |   |
|                                   |    |           |         |                      |                     |                                   |   |
| TOTALS                            |    |           |         | 4                    | 9 130               | 58                                |   |

| TURF ESTABLISHMENT         |    |           |         |            |                      |                   |                                        |         |               |                    |                              | G                       |  |  |
|----------------------------|----|-----------|---------|------------|----------------------|-------------------|----------------------------------------|---------|---------------|--------------------|------------------------------|-------------------------|--|--|
| STATION TO STATION         |    |           | LT / RT | SPEC. 2574 |                      |                   | SPEC. 2575                             |         |               |                    |                              |                         |  |  |
|                            |    |           |         | SUBSOILING | SOIL BED PREPARATION | FERTILIZER TYPE 3 | ROLLED EROSION PREVENATION CATEGORY 30 | SEEDING | WEED SPRAYING | WEED SPRAY MIXTURE | RAPID STABILIZATION METHOD 3 | SEED NORTHEAST ROADSIDE |  |  |
|                            |    |           |         | ACRE       | ACRE                 | POUND             | SQ YD                                  | ACRE    | ACRE          | GALLON             | M GALLON                     | POUND                   |  |  |
| SP 069-604-086             |    |           |         |            |                      |                   |                                        |         |               |                    |                              |                         |  |  |
| ALIGNMENT: COUNTY ROAD 162 |    |           |         |            |                      |                   |                                        |         |               |                    |                              |                         |  |  |
| 79+48.69                   | TO | 89+31.33  | LT/RT   | 0.3        | 0.7                  | 151               | 2 100                                  | 0.4     | 0.3           | 0.03               | 3                            | 11                      |  |  |
| 89+31.33                   | TO | 118+48.40 | LT/RT   | 0.6        | 2                    | 468               | 6 458                                  | 1.4     | 0.6           | 0.06               | 8                            | 35                      |  |  |
| 118+48.40                  | TO | 118+79.87 | LT/RT   |            |                      | 3                 | 42                                     |         |               |                    |                              |                         |  |  |
|                            |    |           |         |            |                      |                   |                                        |         |               |                    |                              |                         |  |  |
| TOTALS                     |    |           |         | 0.9        | 2.7                  | 622               | 8 600                                  | 1.8     | 0.9           | 0.09               | 11                           | 46                      |  |  |

|          |      |                      |          |
|----------|------|----------------------|----------|
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PRINTED NAME: MEGAN GOPLIN LIC. NO. 53018  
SIGNATURE: \_\_\_\_\_ DATE: 7/1/2026



|                               |
|-------------------------------|
| ST LOUIS COUNTY CP0004-490685 |
| SP 069-604-086                |

|      |
|------|
| DR:  |
| DES: |
| CHK: |

|                                  |
|----------------------------------|
| PROJECT:                         |
| RICE LAKE ROAD - SHARED USE PATH |

|                           |
|---------------------------|
| SHEET TITLE:              |
| TABULATIONS               |
| SHEET NO. 07 OF 55 SHEETS |

| PAVEMENT MARKINGS                 |  |    |  | H        |  |         |  |                                                   |  |                                                     |  |
|-----------------------------------|--|----|--|----------|--|---------|--|---------------------------------------------------|--|-----------------------------------------------------|--|
| STATION                           |  | TO |  | STATION  |  | LT / RT |  | SPEC. 2582                                        |  |                                                     |  |
|                                   |  |    |  |          |  |         |  | 24" SOLID LINE PREFORM<br>THERMOPLASTIC GROUND IN |  | PAVEMENT MESSAGE PREFORM<br>THERMOPLASTIC GROUND IN |  |
|                                   |  |    |  |          |  |         |  | (WHITE)                                           |  | (WHITE)                                             |  |
|                                   |  |    |  |          |  |         |  | LIN FT                                            |  | SQ FT                                               |  |
| SP 069-604-086                    |  |    |  |          |  |         |  |                                                   |  |                                                     |  |
| ALIGNMENT: CONSTRUCTION ALIGNMENT |  |    |  |          |  |         |  |                                                   |  |                                                     |  |
| 79+48.69                          |  | TO |  | 89+31.33 |  | LT / RT |  | 26                                                |  | 68                                                  |  |
| TOTALS                            |  |    |  |          |  |         |  | 26                                                |  | 68                                                  |  |

| SIGNING                           |          |                |            |                                    |                 |                    |                    |             |                |            |            | I       |
|-----------------------------------|----------|----------------|------------|------------------------------------|-----------------|--------------------|--------------------|-------------|----------------|------------|------------|---------|
|                                   |          |                |            |                                    |                 |                    |                    |             | SP 069-604-086 |            |            |         |
| STATION                           | RT/LT    | SIGN<br>NUMBER | PANEL CODE | LEGEND                             | SIZE<br>(W x H) | MOUNTING<br>HEIGHT | SIGN SUPPORT       |             |                | SPEC. 2104 | SPEC. 2564 | REMARKS |
|                                   |          |                |            |                                    | TYPE            | RISER POST<br>SIZE | NUMBER OF<br>POSTS | REMOVE SIGN | SIGN           |            |            |         |
|                                   |          |                |            |                                    |                 | INCH               |                    | FEET        | INCH           | EACH       | SQ FT      |         |
| ALIGNMENT: CONSTRUCTION ALIGNMENT |          |                |            |                                    |                 |                    |                    |             |                |            |            |         |
| 79+52.49                          | 33.71 LT | S-01           | R1-1       | STOP SIGN                          | 36 X 36         | 7                  | SQ - SOIL          | 2           | 1              |            | 9.00       |         |
| 80+09.07                          | 25.57 RT | S-02           | EXST       | AXLE WEIGHT LIMIT 5 TONS           | EXST.           |                    |                    |             |                | 1          |            |         |
| 80+39.86                          | 28.16 RT | S-03           | EXST       | DEAD END                           | 36 X 36         |                    |                    |             |                | 1          |            |         |
| 80+72.24                          | 21.73 RT | S-04           | M1-X4      | ROUTE MARKER (ST LOUIS COUNTY 162) | 24 X 24         | 7                  | SQ - SOIL          | 2           | 1              |            | 4.00       |         |
| 80+72.25                          | 18.56 RT | S-05           | W14-1      | DEAD END                           | 30 X 30         | 7                  | SQ - SOIL          | 2           | 1              |            | 6.25       |         |
| 89+38.07                          | 14.64 RT | S-06           | R5-3       | NO MOTOR VEHICLES                  | 24 X 24         | 7                  | SQ - SOIL          | 2           | 1              |            | 4.00       |         |
| 89+25.86                          | 16.63 LT | S-07           | R5-3       | NO MOTOR VEHICLES                  | 24 X 24         | 7                  | SQ - SOIL          | 2           | 1              |            | 4.00       |         |
| 89+34.30                          | 13.99 LT | S-08           | OM4-1      | END OF ROADWAY                     | 18 X 18         | 7                  | SQ - SOIL          | 2           | 1              |            | 2.25       |         |
| 89+34.30                          | 10.10 RT | S-09           | OM4-1      | END OF ROADWAY                     | 18 X 18         | 7                  | SQ - SOIL          | 2           | 1              |            | 2.25       |         |
| 118+49.81                         | 2.00 LT  | S-10           | OM4-1      | END OF ROADWAY                     | 18 X 18         | 7                  | SQ - SOIL          | 2           | 1              |            | 2.25       |         |
| 118+50.09                         | 8.23 LT  | S-11           | OM4-1      | END OF ROADWAY                     | 18 X 18         | 7                  | SQ - SOIL          | 2           | 1              |            | 2.25       |         |
| CHART TOTAL                       |          |                |            |                                    |                 |                    |                    |             |                | 2          | 36.25      |         |

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| ST LOUIS COUNTY CP0004-490685 |
| SP 069-604-086                |

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| DR: _____  |
| DES: _____ |
| CHK: _____ |

|                                  |
|----------------------------------|
| PROJECT:                         |
| RICE LAKE ROAD - SHARED USE PATH |

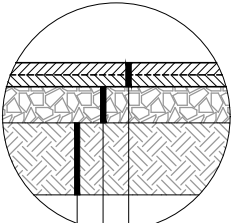
|                           |
|---------------------------|
| SHEET TITLE:              |
| TABULATIONS               |
| SHEET NO. 08 OF 55 SHEETS |

KEY NOTES:

- 1
- PLACE 4" OF SALVAGED TOPSOIL (PAID FOR AS COMMON EMBANKMENT (CV) AND TURF ESTABLISHMENT AS SHOWN ON EROSION CONTROL PLANS.
- 2
- 4.0" AGGREGATE SURFACING (CV) CLASS 5
- 3
- ASSUMED A 15% FLUFF FACTOR FOR RECLAIM MATERIAL.
- 4
- VARIABLE EXISTING CONDITIONS CONSISTING OF ABANDONED BITUMINOUS PAVEMENT AND TRACES OF ORGANIC MATERIAL. (SHALL BE PAID FOR AS EXCAVATION COMMON).
- 5
- RECLAIMED MATERIAL MEETING SPEC. 2211 MAY BE USED AS AGGREGATE BASE (CV) CLASS 5
- 6
- REMOVE EXCESS RECLAIM MATERIAL TO MAINTAIN A COMPACTED 6" RECLAIM BASE.
- 7
- MATCH EXISTING SLOPE (1:3.5 MAX.)
- 8
- 3.5" GRADE RAISE FROM EXISTING GROUND.

GENERAL NOTES

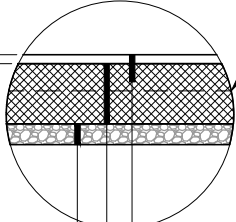
EXISTING MAINLINE PAVEMENT THICKNESS = 3.0 IN (AVERAGE)  
EXISTING MAINLINE AGGREGATE BASE THICKNESS = 13.0 IN (AVERAGE)



2.0" TYPE SP 9.5 WEARING COURSE MIX (3,C) (SPWEA340C)  
PLACE TACK COAT BETWEEN BITUMINOUS LAYERS - SPEC. 2357  
2.0" TYPE SP 9.5 WEARING COURSE MIX (3,C) (SPWEA340C)  
6" AGGREGATE BASE (CV) CLASS 5  
12" SELECT GRANULAR EMBANKMENT MOD. 7% (CV) 5

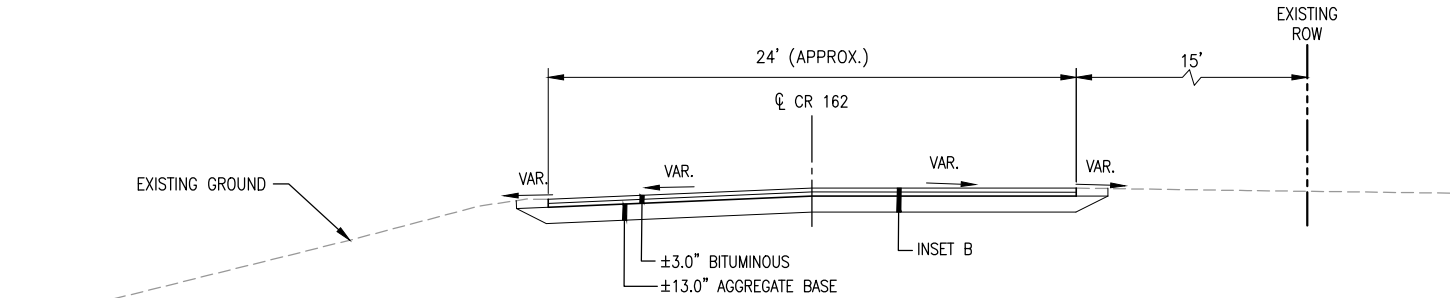
INSET A (C.R. 162)

3  
1.5" TEMPORARY GRADE RAISE



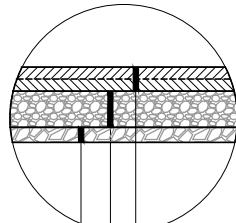
BOTTOM OF INPLACE BITUMINOUS (APPROX. 3.0")  
REMOVE RECLAIM MATERIAL (APPROX. 2.0") 6  
FULL DEPTH RECLAMATION (8")  
INPLACE AGGREGATE BASE (APPROX. 3.0") (TO REMAIN INPLACE)

INSET B (RECLAIM)



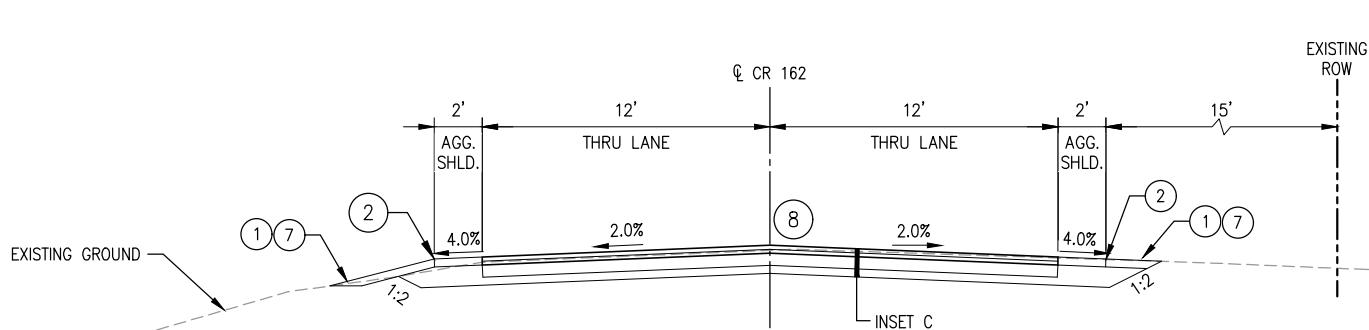
INPLACE TYPICAL SECTION - COUNTY ROAD 162

APPLIES: STA. 79+48.69 TO 88+97.21



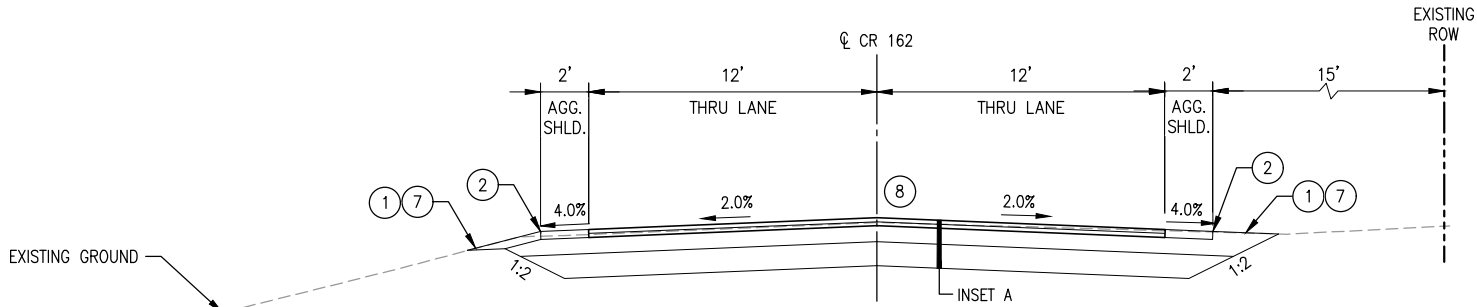
2" TYPE SP 9.5 WEARING COURSE MIXTURE (3,C) (SPWEA340C)  
PLACE TACK COAT BETWEEN BITUMINOUS LAYERS - SPEC. 2357  
2" TYPE SP 9.5 WEARING COURSE MIXTURE (3,C) (SPWEA340C)  
6.0" RECLAIMED BITUMINOUS & AGGREGATE BASE  
INPLACE AGGREGATE BASE (APPROX. 3.0")

INSET C



PROPOSED FULL DEPTH RECLAIM TYPICAL SECTION - COUNTY ROAD 162

APPLIES: STA. 79+48.69 TO 88+97.21



PROPOSED TYPICAL SECTION - COUNTY ROAD 162

APPLIES: STA. 88+97.21 TO 89+31.33

PLOT DATE: 7/3/2026 1:01:45 PM FILE: Q:\24Pro\240652\500 Drawings\Civil\01 Shared Use Path - (Norton Rd to Ridgeview Rd)\240652 04.0 Typical Sections - Shared Use Path.dwg

| REV. NO. | DATE | REVISION DESCRIPTION | APPROVED |
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PRINTED NAME: MEGAN GOPLIN LIC. NO. 53018  
SIGNATURE: \_\_\_\_\_ DATE: 7/3/2026



ST LOUIS COUNTY CP0004-490685  
SP 069-604-086

DR:  
DES:  
CHK:

PROJECT:  
RICE LAKE ROAD -  
SHARED USE PATH

SHEET TITLE:  
TYPICAL SECTIONS  
SHEET NO. 09 OF 55 SHEETS

KEY NOTES:

- 1

PLACE 4" OF SALVAGED TOPSOIL (PAID FOR AS COMMON EMBANKMENT (CV) AND TURF ESTABLISHMENT AS SHOWN ON EROSION CONTROL PLANS.
- 2

4.0" AGGREGATE SURFACING (CV) CLASS 5
- 3

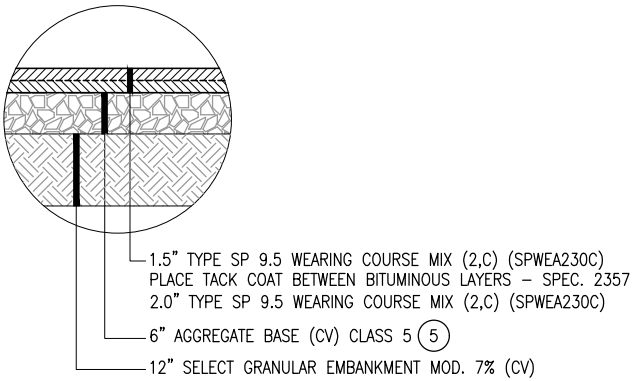
ASSUMED A 15% FLUFF FACTOR FOR RECLAIM MATERIAL.
- 4

VARIABLE EXISTING CONDITIONS CONSISTING OF ABANDONED BITUMINOUS PAVEMENT AND TRACES OF ORGANIC MATERIAL. (SHALL BE PAID FOR AS EXCAVATION COMMON).
- 5

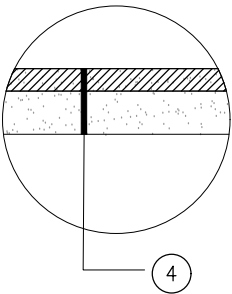
RECLAIMED MATERIAL MEETING SPEC. 2211 MAY BE USED AS AGGREGATE BASE (CV) CLASS 5
- 6

REMOVE EXCESS RECLAIM MATERIAL TO MAINTAIN A COMPACTED 6" RECLAIM BASE.
- 7

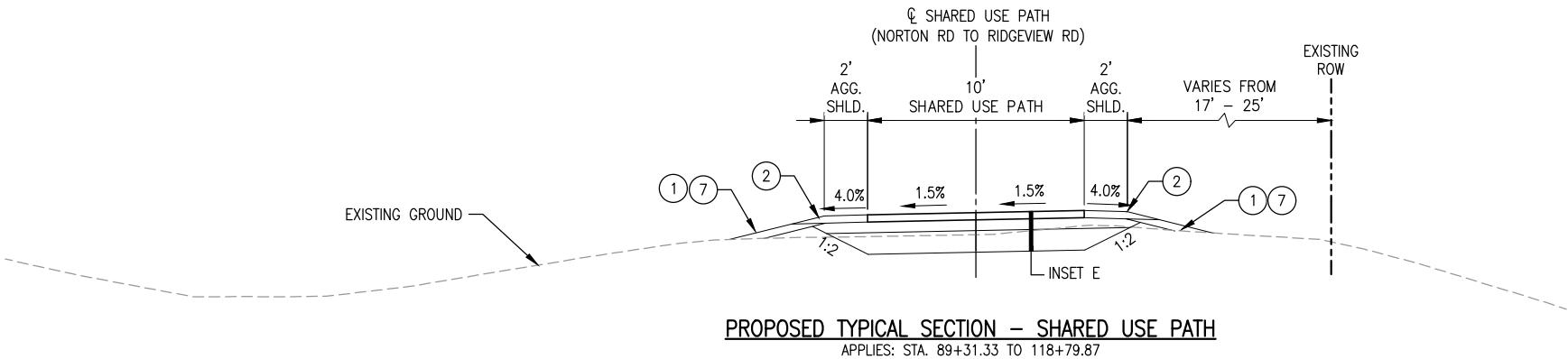
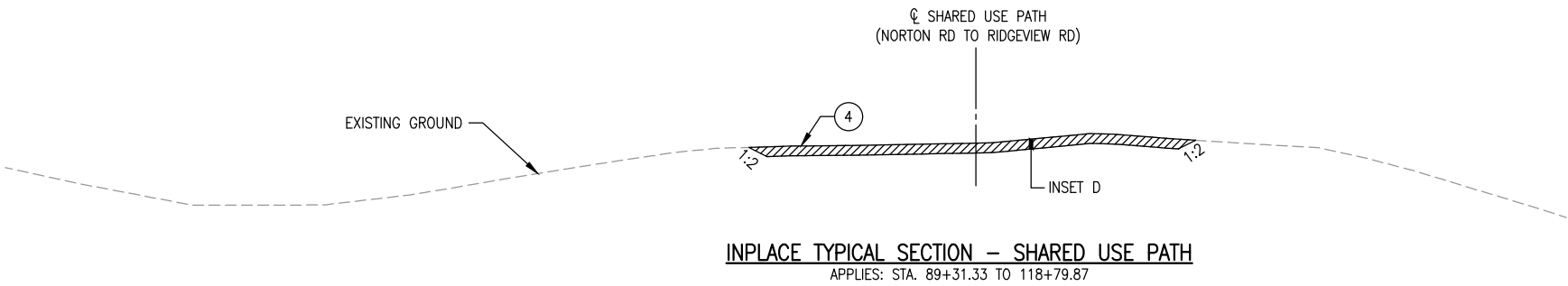
1:4 MAX.



INSET E  
PROPOSED SECTION

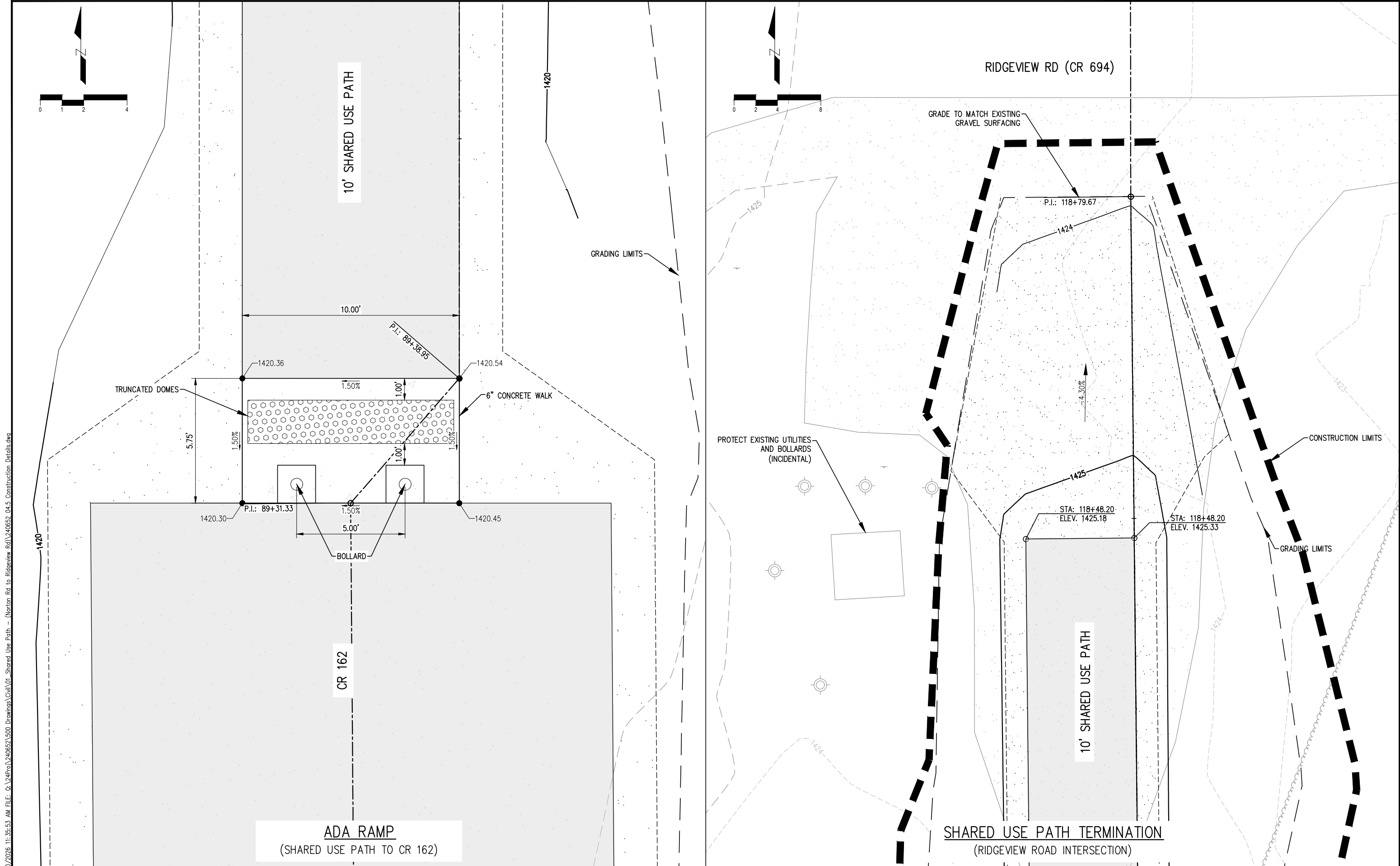


INSET D  
EXISTING SECTION



|                                                                                                                                                                                                                                                                                                |      |                      |          |                                                                                       |                               |                                       |                                           |                               |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------------------|----------|---------------------------------------------------------------------------------------|-------------------------------|---------------------------------------|-------------------------------------------|-------------------------------|
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| REV. NO.                                                                                                                                                                                                                                                                                       | DATE | REVISION DESCRIPTION | APPROVED |                                                                                       | SP 069-604-086                |                                       |                                           | SHEET NO. 10 OF 55 SHEETS     |





PLOT DATE: 6/30/2026 11:35:53 AM FILE: Q:\24Pro\240652\500 Drawings\Civil\01 Shared Use Path - (Norton Rd to Ridgeview Rd)\240652 04.5 Construction Details.dwg

| REV. NO. | DATE | REVISION DESCRIPTION | APPROVED |
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SIGNATURE: \_\_\_\_\_ DATE: \_\_/\_\_/2026



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|-------------------------------|
| ST LOUIS COUNTY CP0004-490685 |
| SP 069-604-086                |

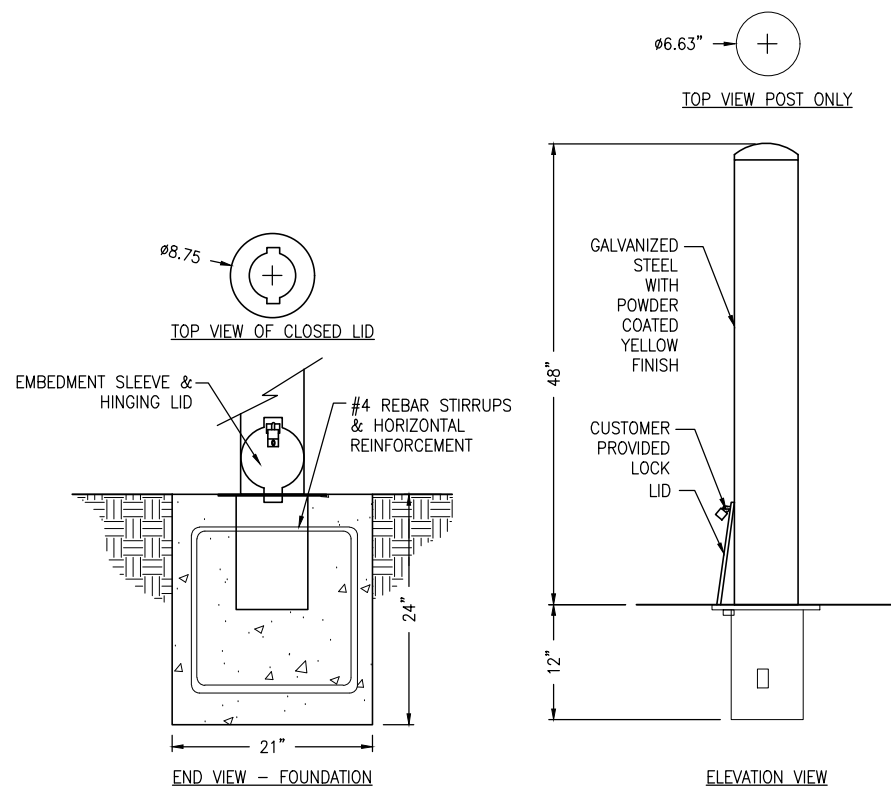
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|------------|
| DR: _____  |
| DES: _____ |
| CHK: _____ |

|                                  |
|----------------------------------|
| PROJECT:                         |
| RICE LAKE ROAD - SHARED USE PATH |

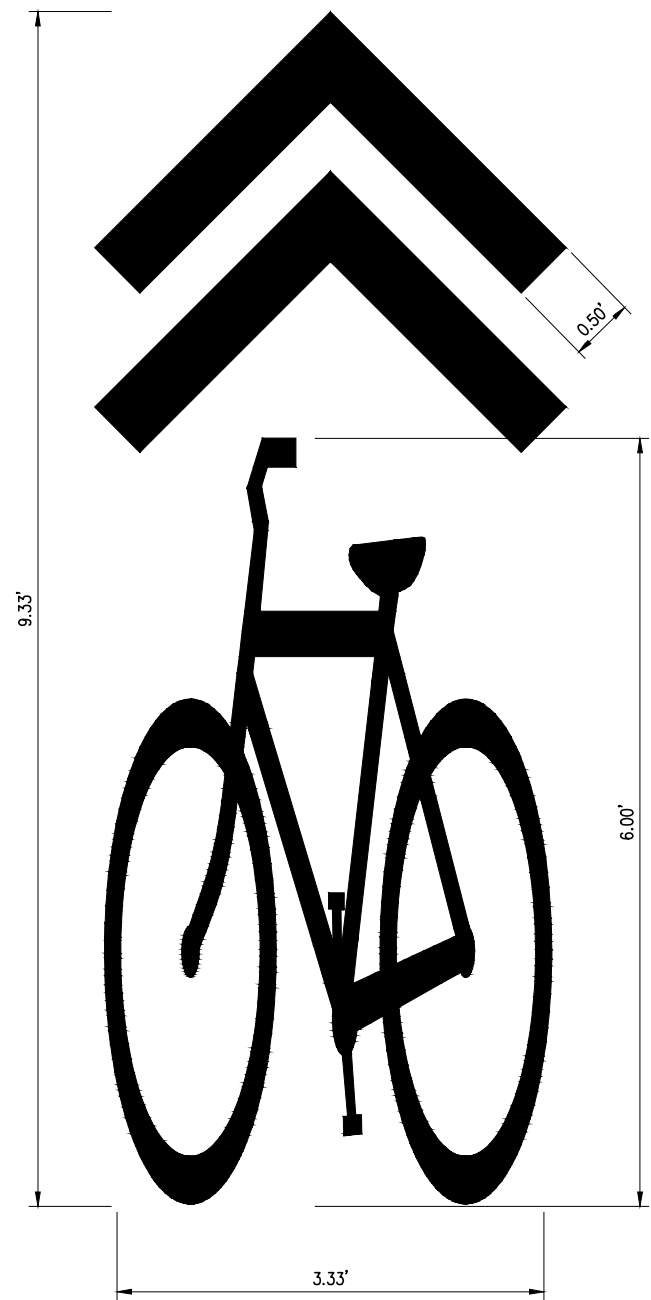
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| SHEET TITLE:              |
| CONSTRUCTION DETAILS      |
| SHEET NO. 11 OF 55 SHEETS |



PLOT DATE: 6/30/2026 11:36:19 AM FILE: G:\24Pro\240652\500 Drawings\Civil\01 Shared Use Path - (Norton Rd to Ridgeview Rd)\240652 04.5 Construction Details.dwg



REMOVABLE BOLLARD DETAIL  
(SHARED USE PATH TO CR 162)



INSTALLED AREA = 8.5 SQ FT

BICYCLE PAVEMENT MARKING  
(CR 162)

| REV. NO. | DATE | REVISION DESCRIPTION | APPROVED |
|----------|------|----------------------|----------|
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SIGNATURE: \_\_\_\_\_ DATE: \_\_/\_\_/2026



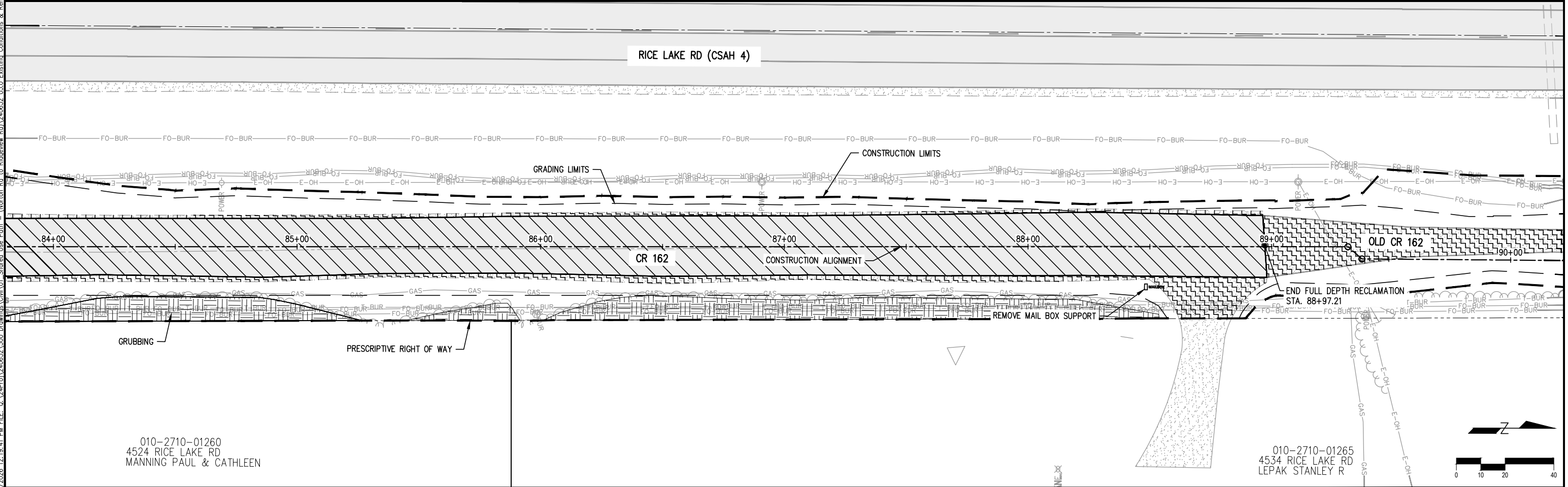
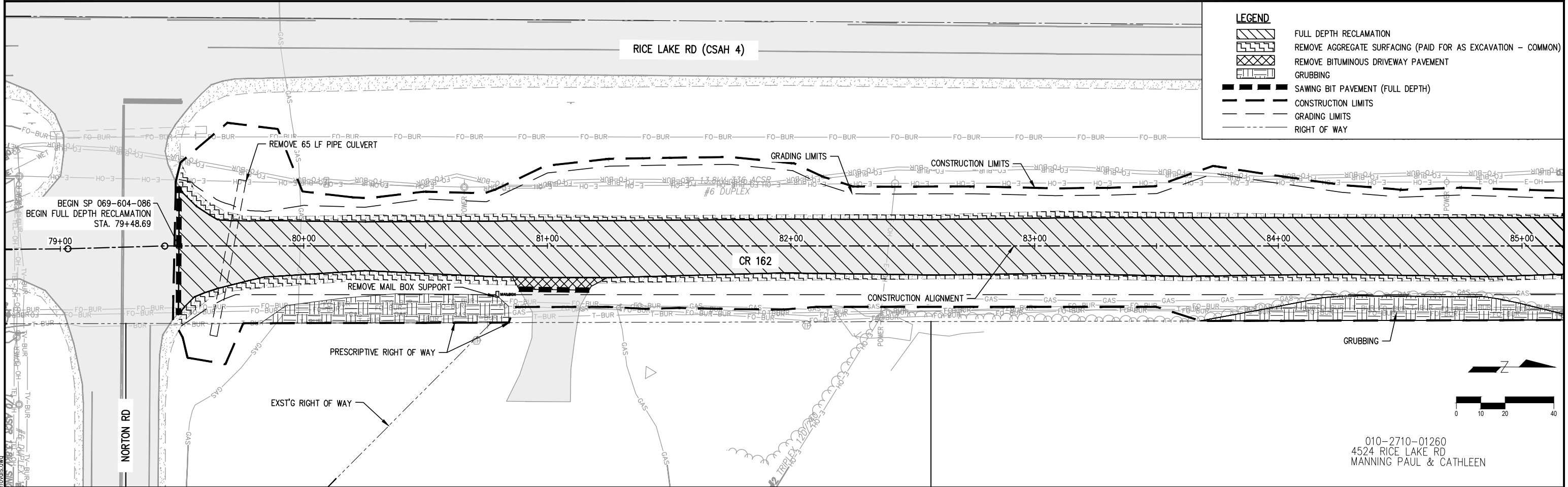
ST LOUIS COUNTY CP0004-490685

SP 069-604-086

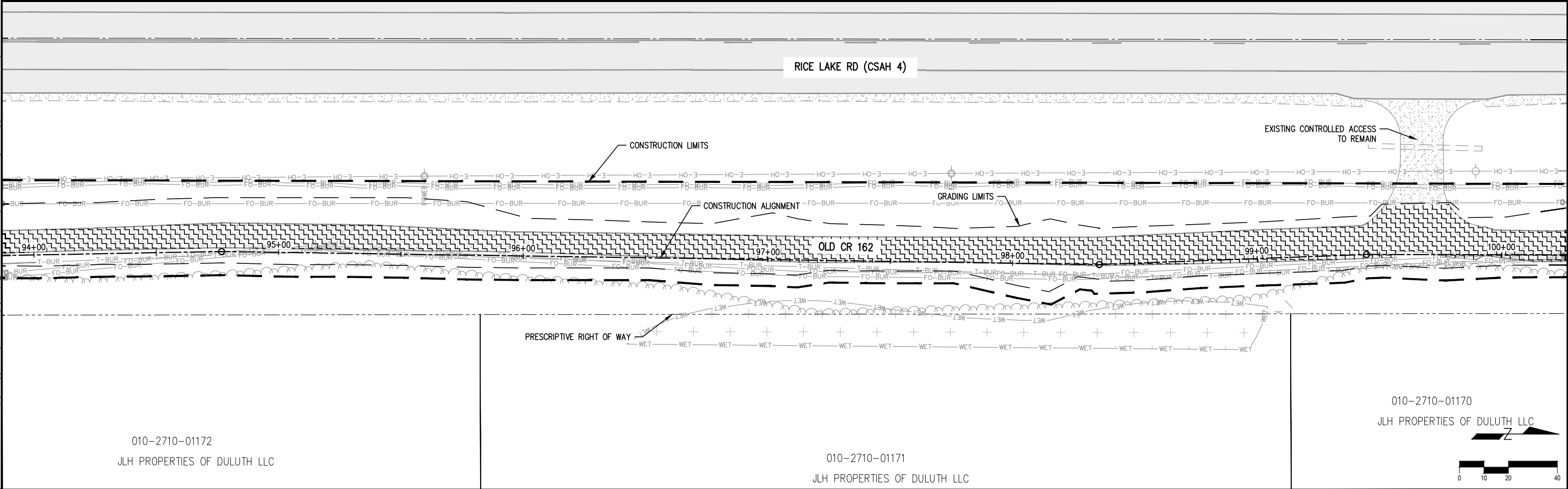
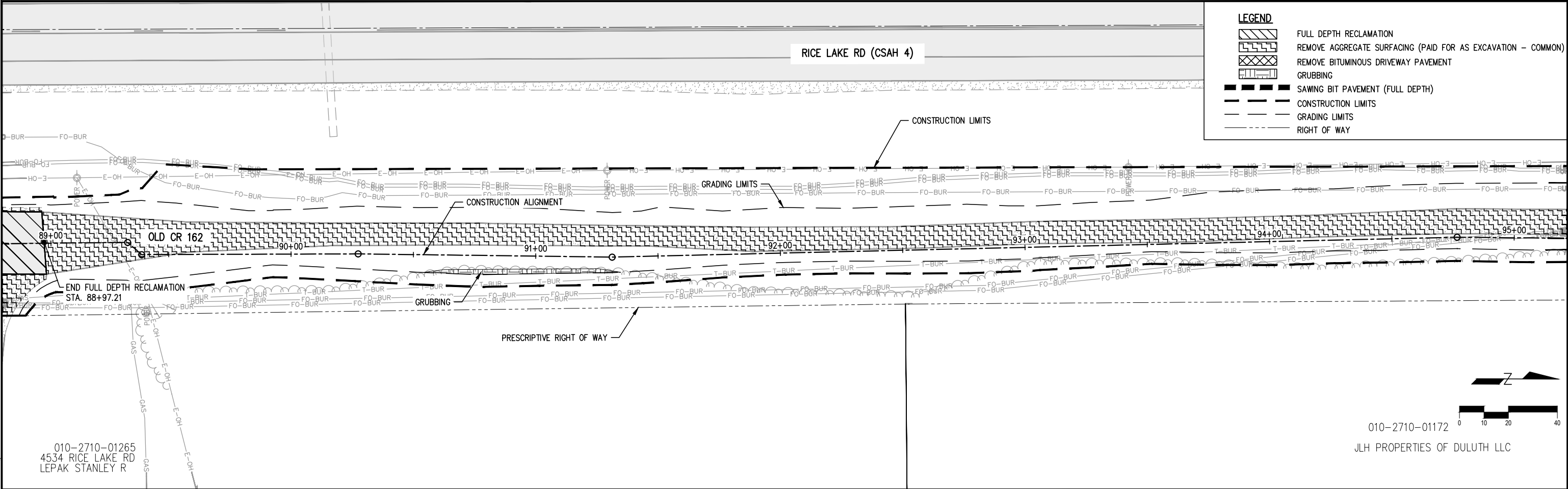
DR: \_\_\_\_\_  
DES: \_\_\_\_\_  
CHK: \_\_\_\_\_

PROJECT:  
RICE LAKE ROAD -  
SHARED USE PATH

SHEET TITLE:  
CONSTRUCTION DETAILS  
SHEET NO. 12 OF 55 SHEETS



|          |      |                      |          |                                                                                                                                                                                                                                                                                                                    |                                                                                                  |                               |      |                                                  |                                                                                       |
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|          |      |                      |          |                                                                                                                                                                                                                                                                                                                    |                                                                                                  |                               | DES: |                                                  |                                                                                       |
| REV. NO. | DATE | REVISION DESCRIPTION | APPROVED |                                                                                                                                                                                                                                                                                                                    |                                                                                                  | SP 069-604-086                | CHK: |                                                  |                                                                                       |



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| REV. NO. |  |  |  | DATE |  |  |  | REVISION DESCRIPTION |  |  |  | APPROVED |  |  |  | SIGNATURE |  |  |  | DATE |  |  |  |
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ST LOUIS COUNTY CP0004-490685

SP 069-604-086

DR:

DES:

CHK:

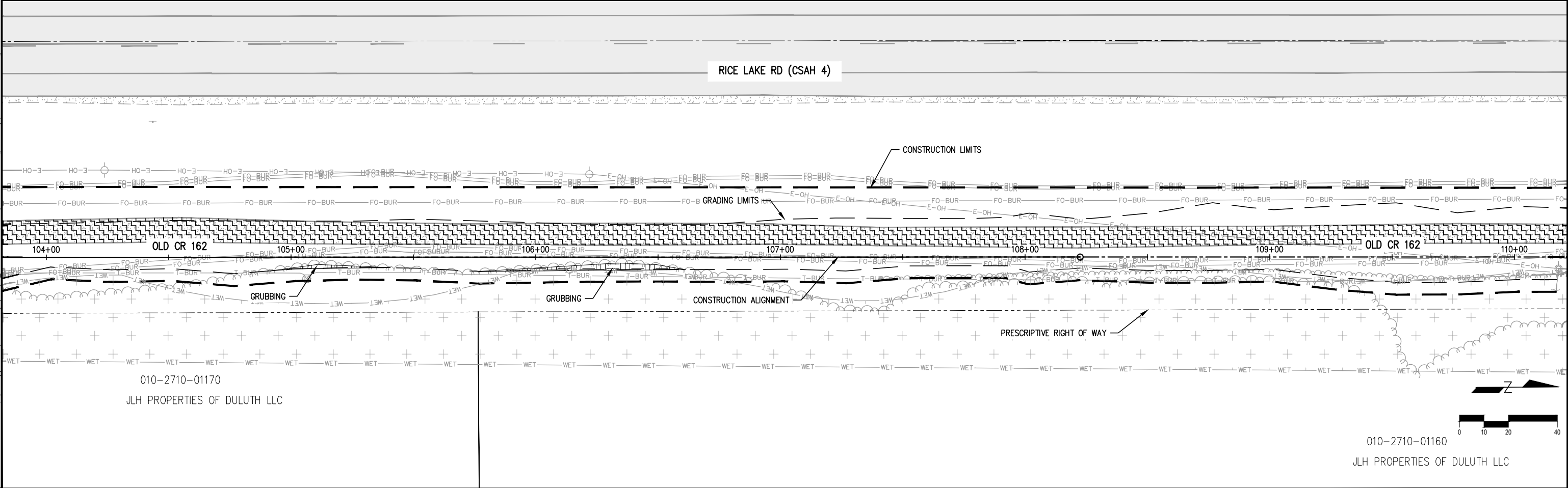
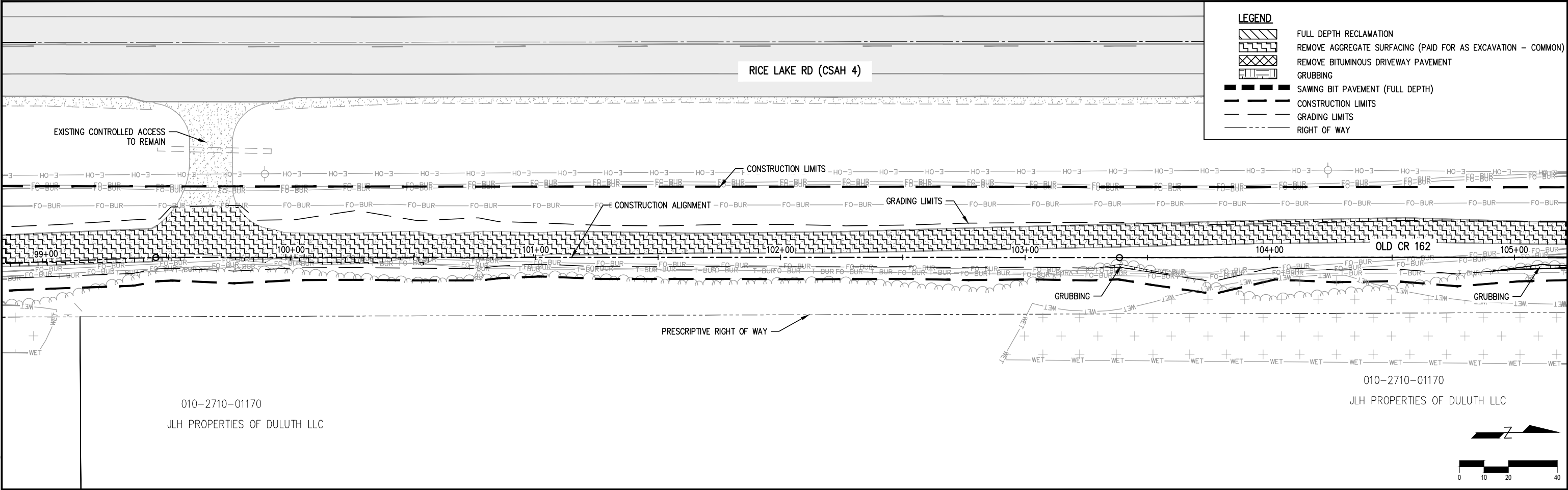
PROJECT:

RICE LAKE ROAD - SHARED USE PATH

SHEET TITLE:

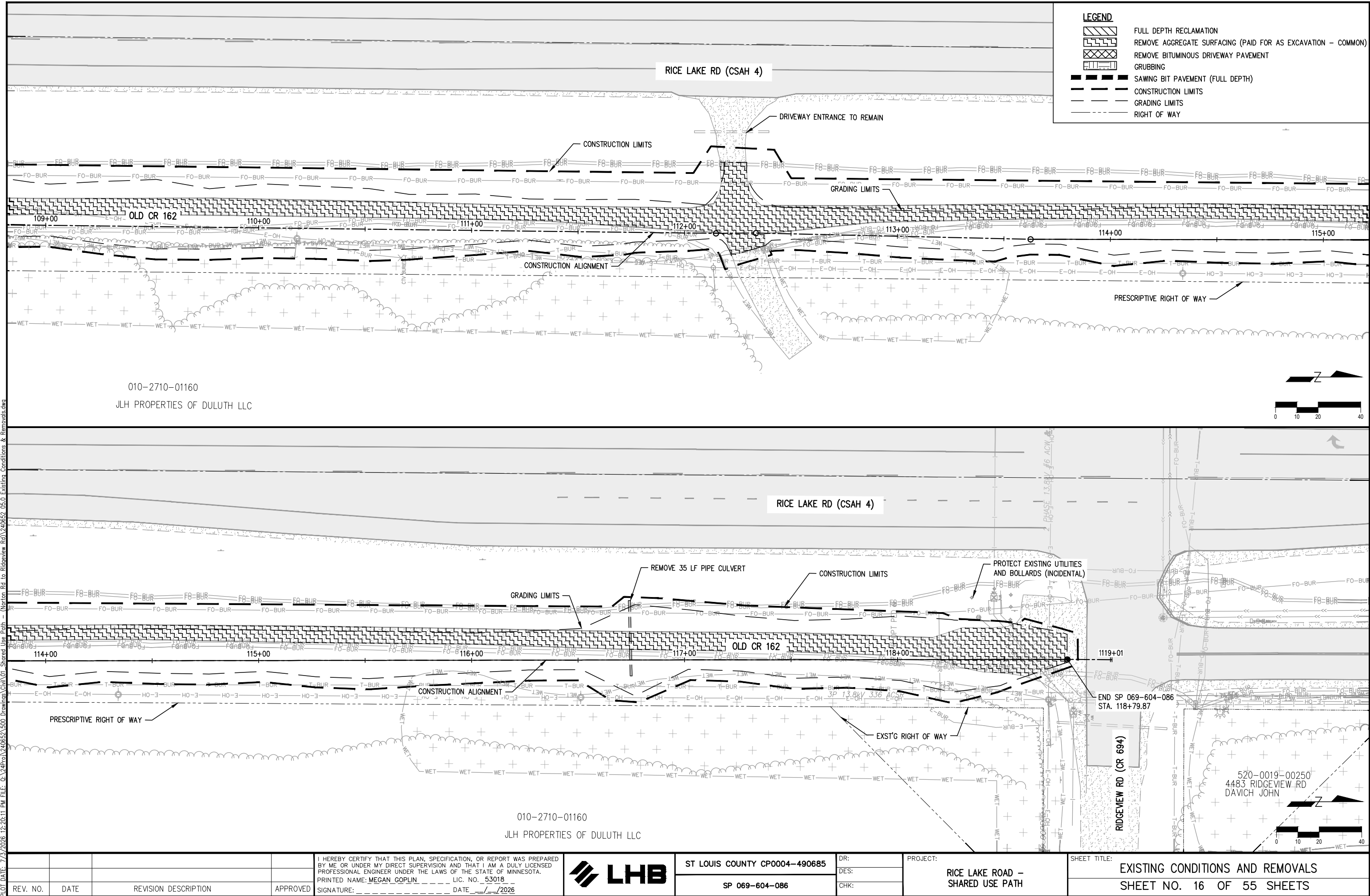
EXISTING CONDITIONS AND REMOVALS  
SHEET NO. 14 OF 55 SHEETS

PLOT DATE: 7/3/2026 12:20:09 PM FILE: Q:\24Pro\240652\600 Drawings\Civil\01 Shared Use Path - (Norton Rd to Ridgeway Rd)\240652\_05.0\_Existing Conditions & Removals.dwg



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|          |      |                      |          | <div><div></div><div>LHB</div></div> | ST LOUIS COUNTY CP0004-490685<br>SP 069-604-086 | DR:<br>DES:<br>CHK: | PROJECT:<br>RICE LAKE ROAD -<br>SHARED USE PATH | SHEET TITLE:<br>EXISTING CONDITIONS AND REMOVALS<br>SHEET NO. 15 OF 55 SHEETS |
| REV. NO. | DATE | REVISION DESCRIPTION | APPROVED |                                      |                                                 |                     |                                                 |                                                                               |

PLOT DATE: 7/3/2026 12:20:11 PM FILE: Q:\24652\240652\500 Drawings\Civil\01 - Shared Use Path - (Norton Rd to Ridgeview Rd)\240652\_05.0 Existing Conditions & Removals.dwg



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SIGNATURE: \_\_\_\_\_ DATE: 7/3/2026

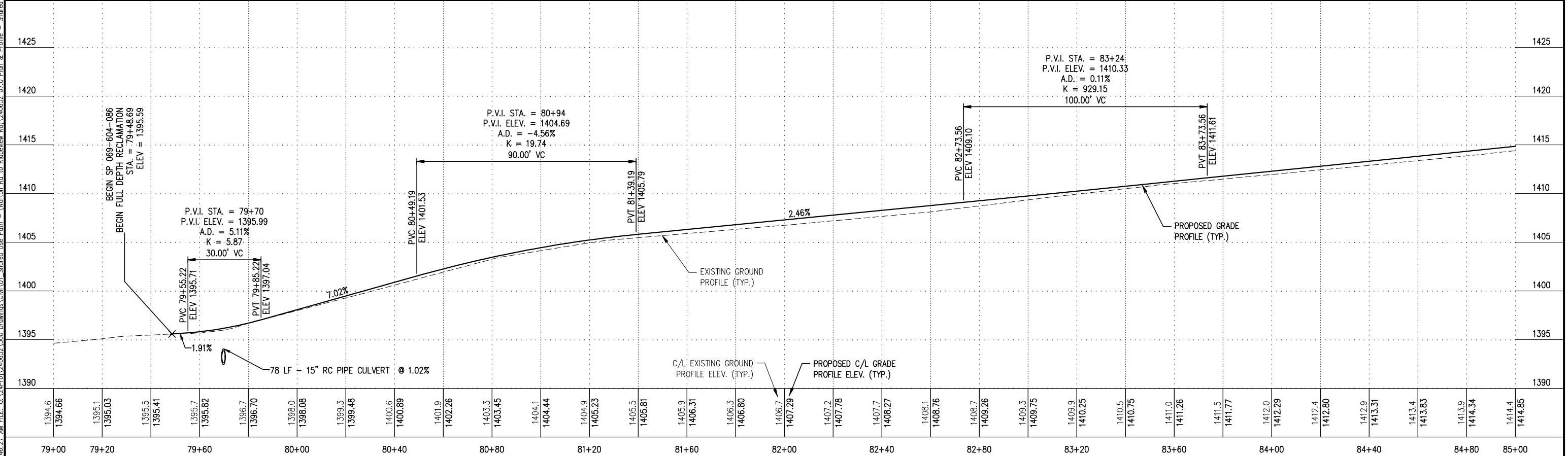
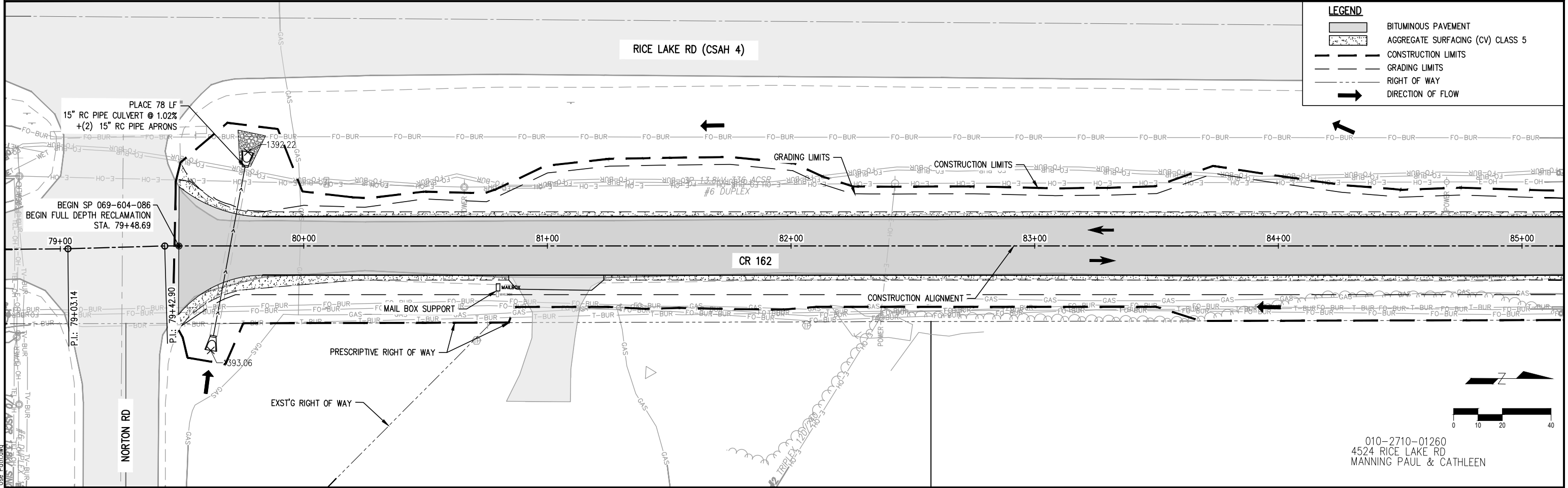


ST LOUIS COUNTY CP0004-490685  
SP 069-604-086

DR: \_\_\_\_\_  
DES: \_\_\_\_\_  
CHK: \_\_\_\_\_

PROJECT: RICE LAKE ROAD - SHARED USE PATH

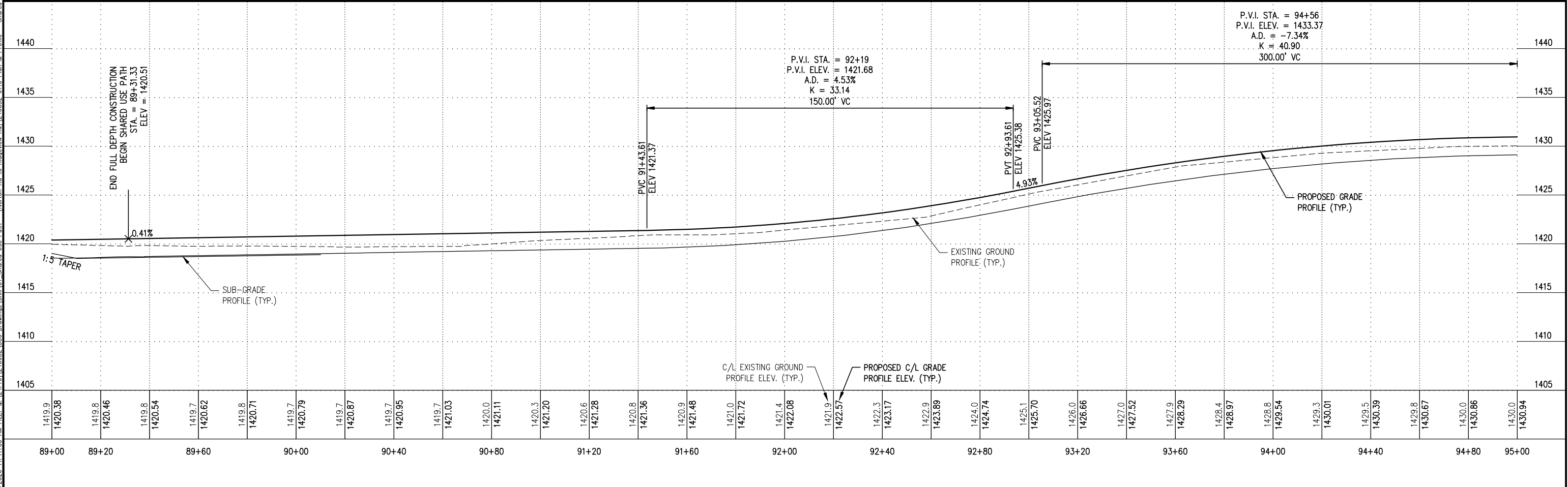
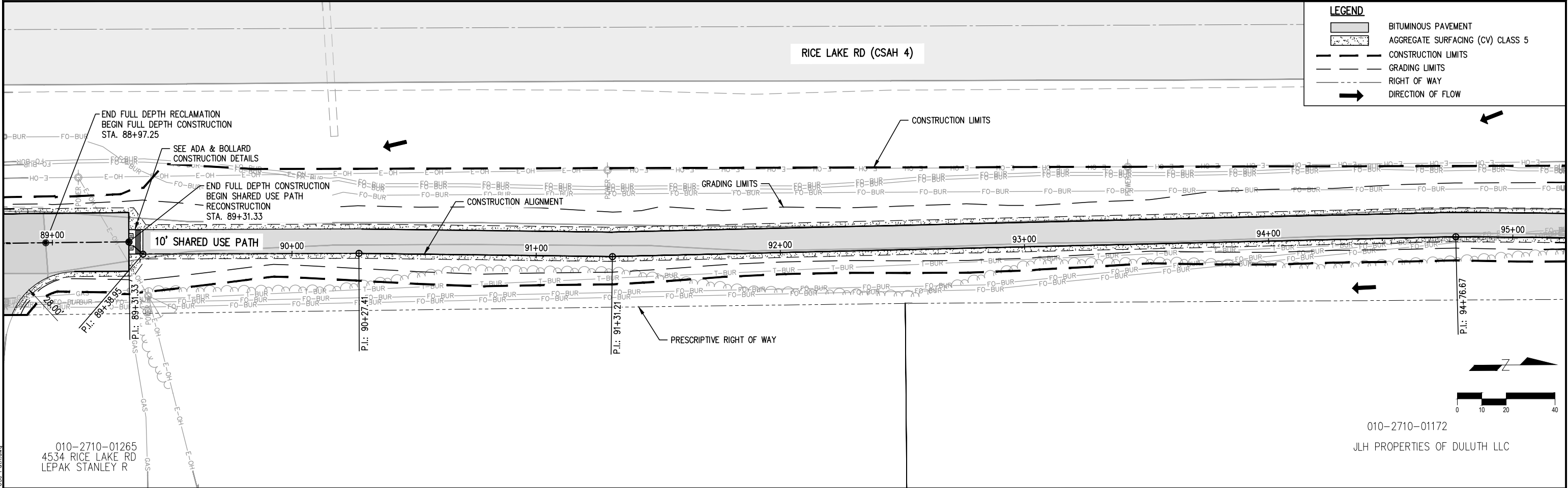
SHEET TITLE: EXISTING CONDITIONS AND REMOVALS  
SHEET NO. 16 OF 55 SHEETS



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| REV. NO. | DATE | REVISION DESCRIPTION | APPROVED | SIGNATURE | DATE | ST LOUIS COUNTY CP0004-490685 | DR:  | PROJECT:                         | SHEET TITLE:              |
|          |      |                      |          |           |      | SP 069-604-086                | DES: | RICE LAKE ROAD - SHARED USE PATH | PLAN & PROFILE - CR 162   |
|          |      |                      |          |           |      |                               | CHK: |                                  | SHEET NO. 17 OF 55 SHEETS |



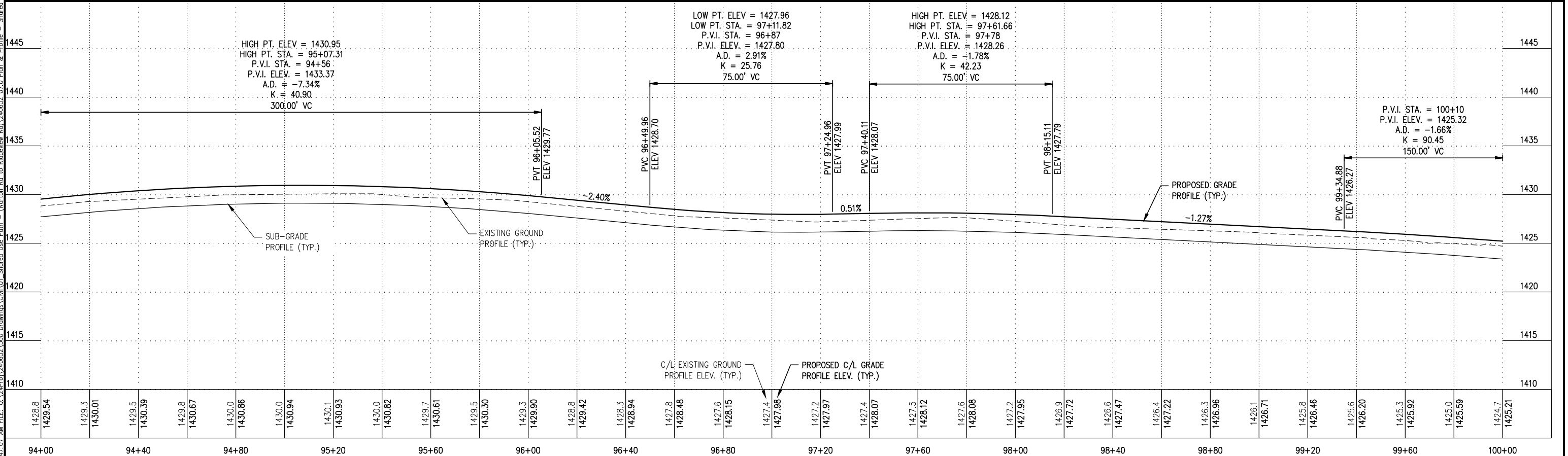
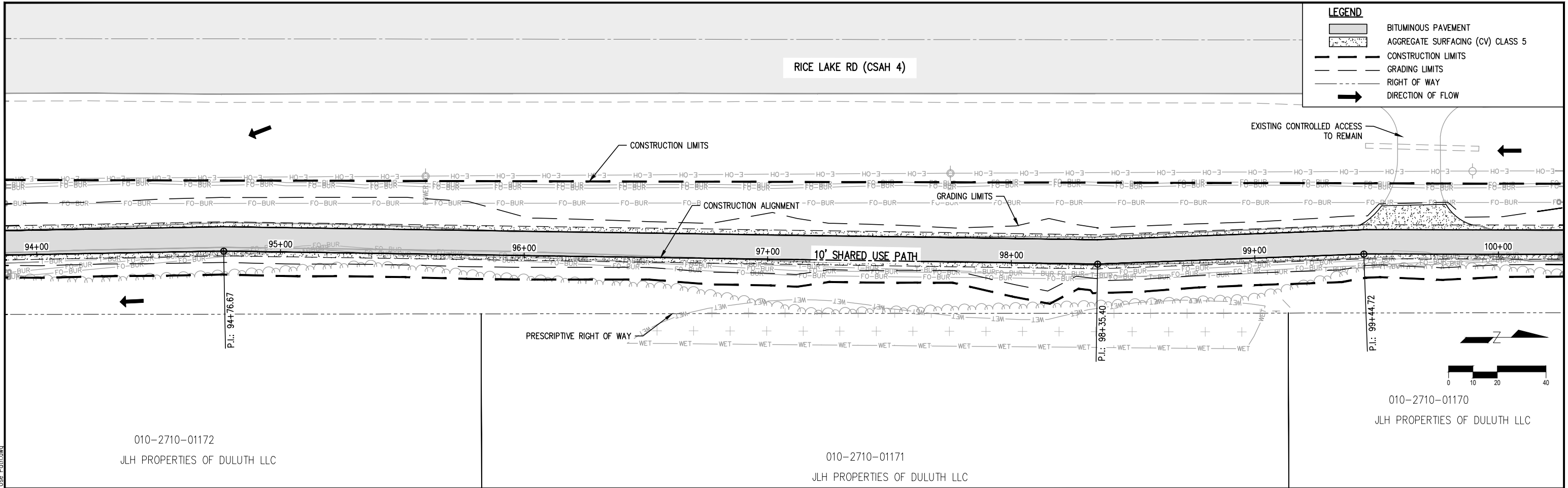




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| REV. NO.                                                                                                                                                                                                                                                                                  | DATE | REVISION DESCRIPTION | APPROVED |                                                                                       | SP 069-604-086                |                                       |                                           |                                                                            |

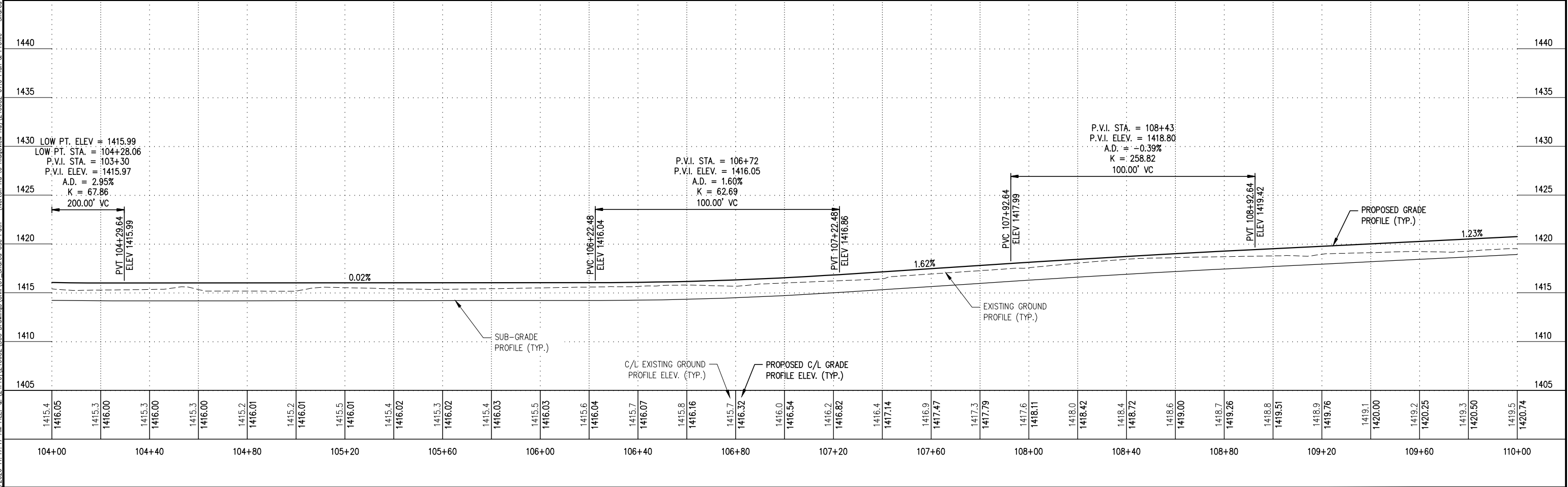
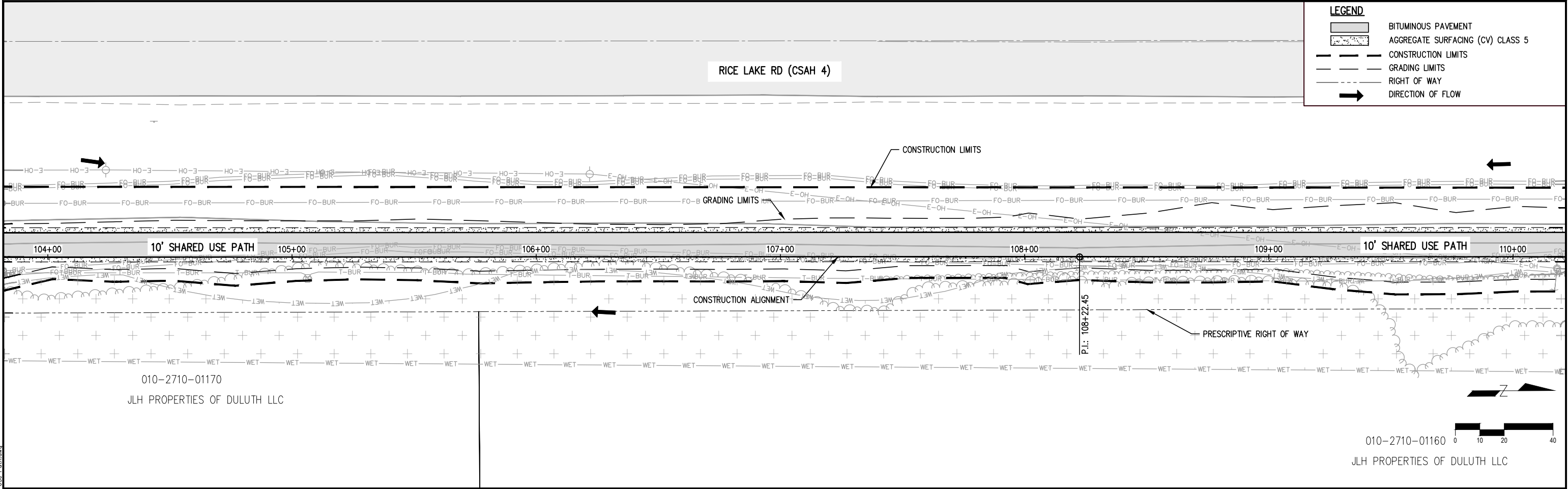


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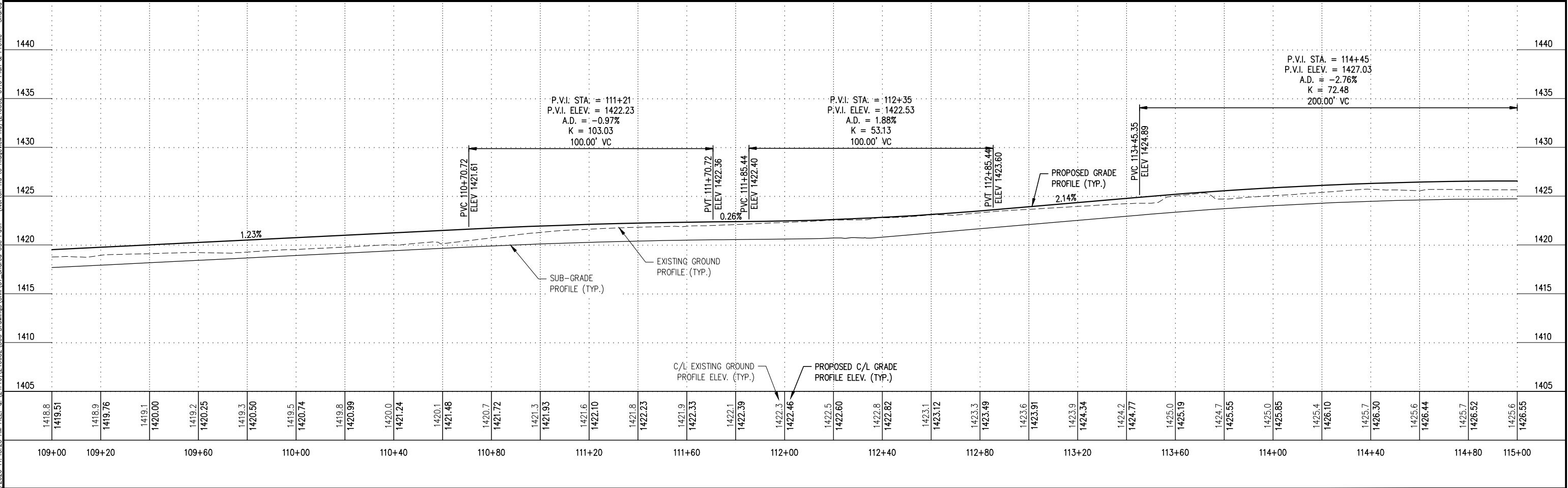
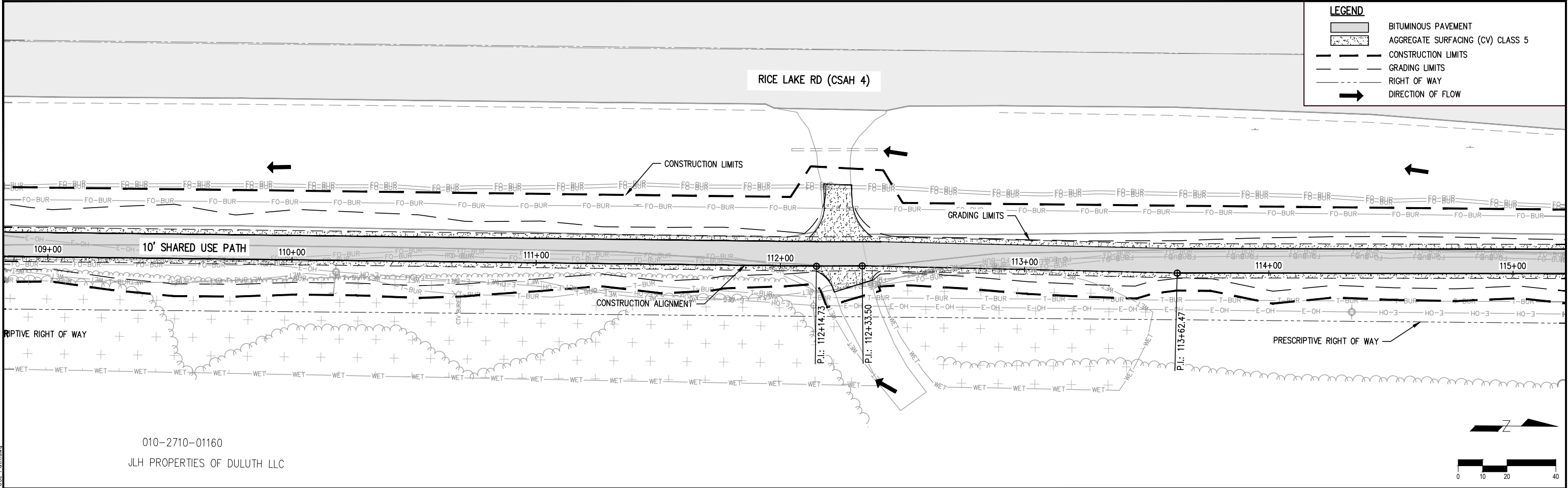


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| REV. NO.                                                                                                                                                                                                                                                                                  | DATE | REVISION DESCRIPTION | APPROVED |                                                                                       | SP 069-604-086                |                                       |                                           |                                                                            |



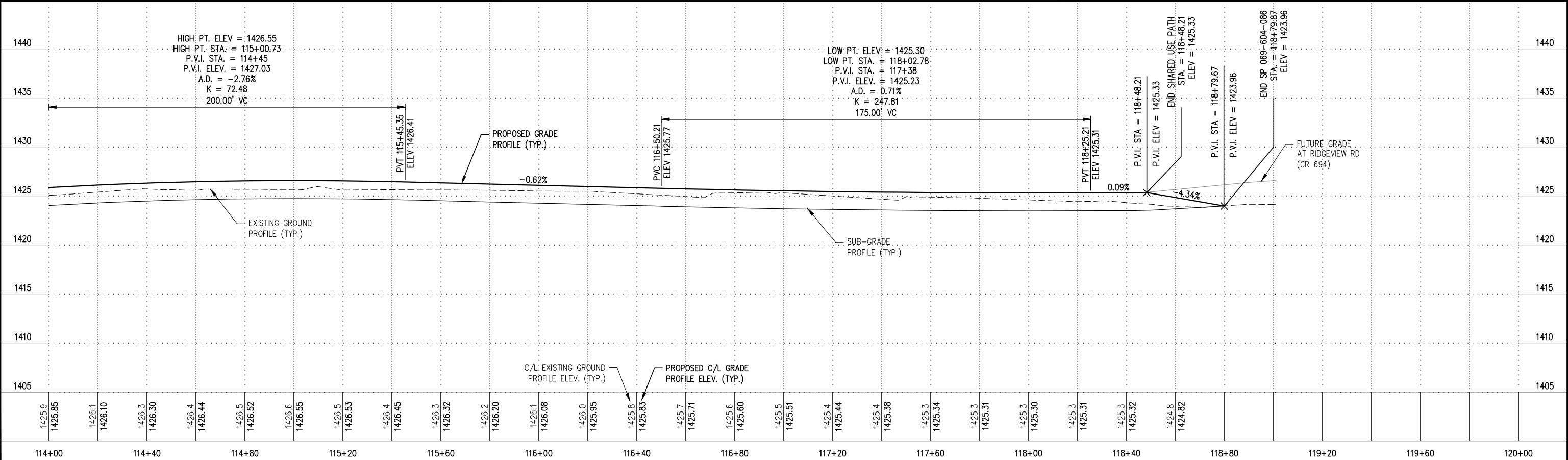
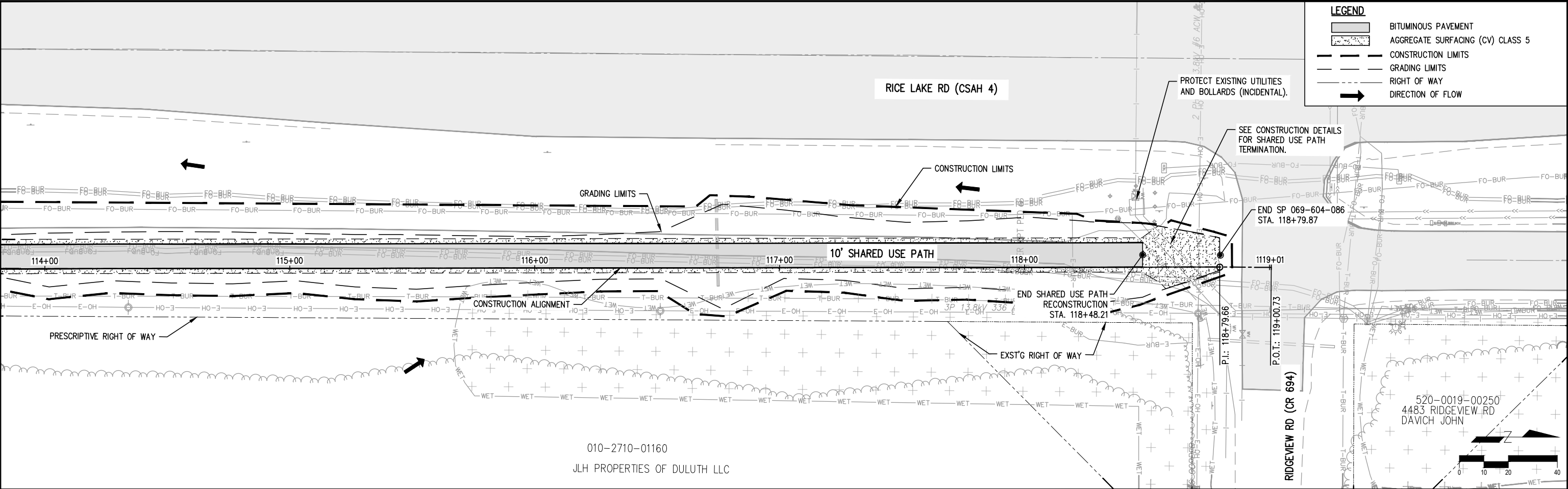


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| REV. NO.                                                                                                                                                                                                                                                                                  | DATE | REVISION DESCRIPTION | APPROVED |                                                 |  |                     |                                              |                                                                               |



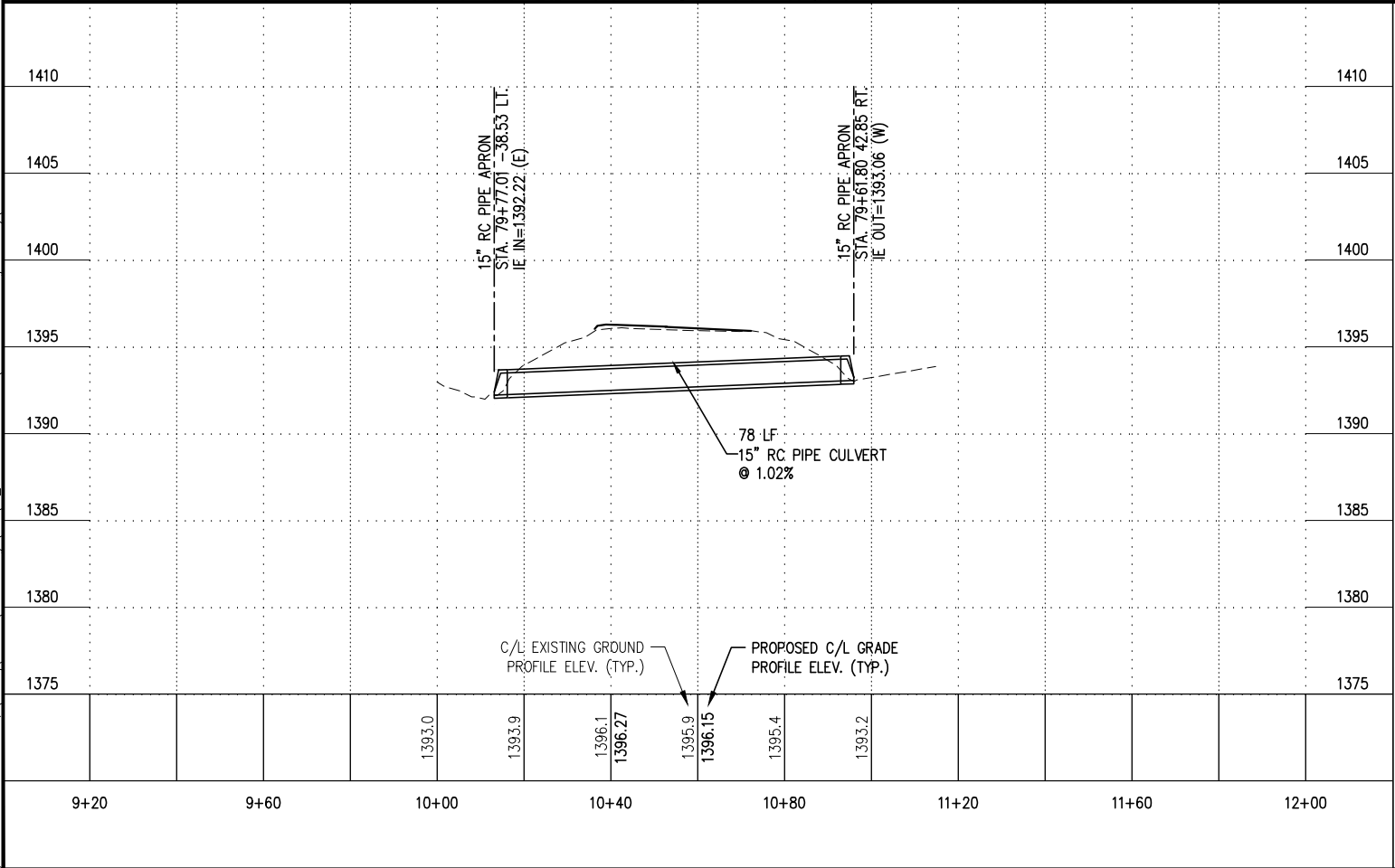
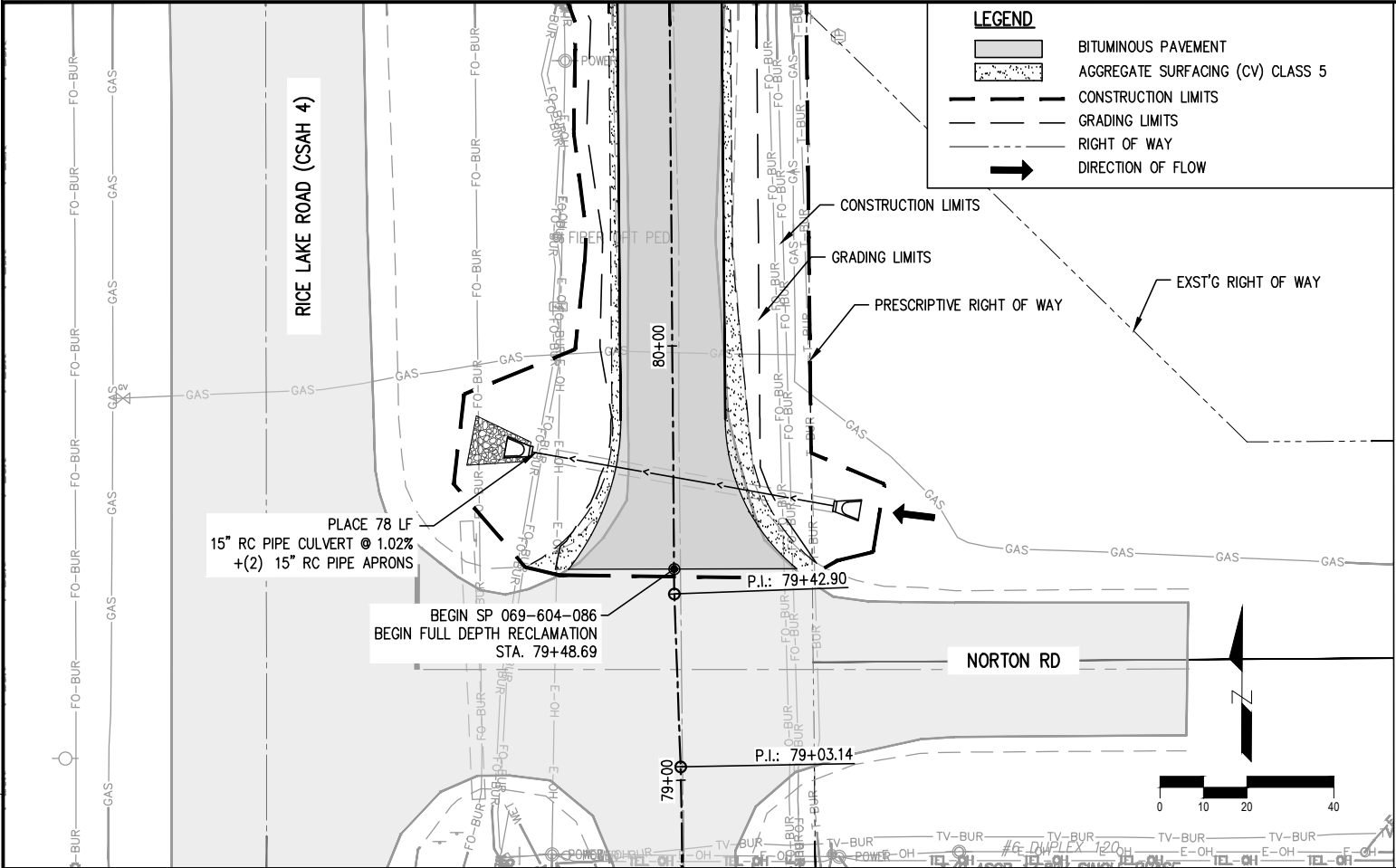
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| REV. NO.                                                                                                                                                                                                                                                                                    | DATE | REVISION DESCRIPTION | APPROVED |                                                 |  |                     |                                              |                                                                               |

PLOT DATE: 7/3/2026 11:48:26 AM FILE: Q:\24Pro\240652\500 Drawings\CU\01 Shared Use Path - (Norton Rd to Ridgeview Rd)\240652\_07.0 Plan & Profile - Shared Use Path.dwg



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| REV. NO. | DATE | REVISION DESCRIPTION | APPROVED | SIGNATURE | DATE | ST LOUIS COUNTY CP0004-490685 | DR:  | PROJECT:                         | SHEET TITLE:                     |
|          |      |                      |          |           |      | SP 069-604-086                | DES: | RICE LAKE ROAD - SHARED USE PATH | PLAN & PROFILE - SHARED USE PATH |
|          |      |                      |          |           |      |                               | CHK: |                                  | SHEET NO. 24 OF 55 SHEETS        |

PLOT DATE: 7/3/2026 11:49:00 AM FILE: Q:\24Pro\240652\500 Drawings\Civil\01 Shared Use Path - (Norton Rd to Rice Lake Rd)\240652\_07.0 Plan & Profile - Shared Use Path.dwg



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SIGNATURE: \_\_\_\_\_ DATE: 7/3/2026



ST LOUIS COUNTY CP0004-490685  
SP 069-604-086

DR: \_\_\_\_\_  
DES: \_\_\_\_\_  
CHK: \_\_\_\_\_

PROJECT:  
RICE LAKE ROAD - SHARED USE PATH

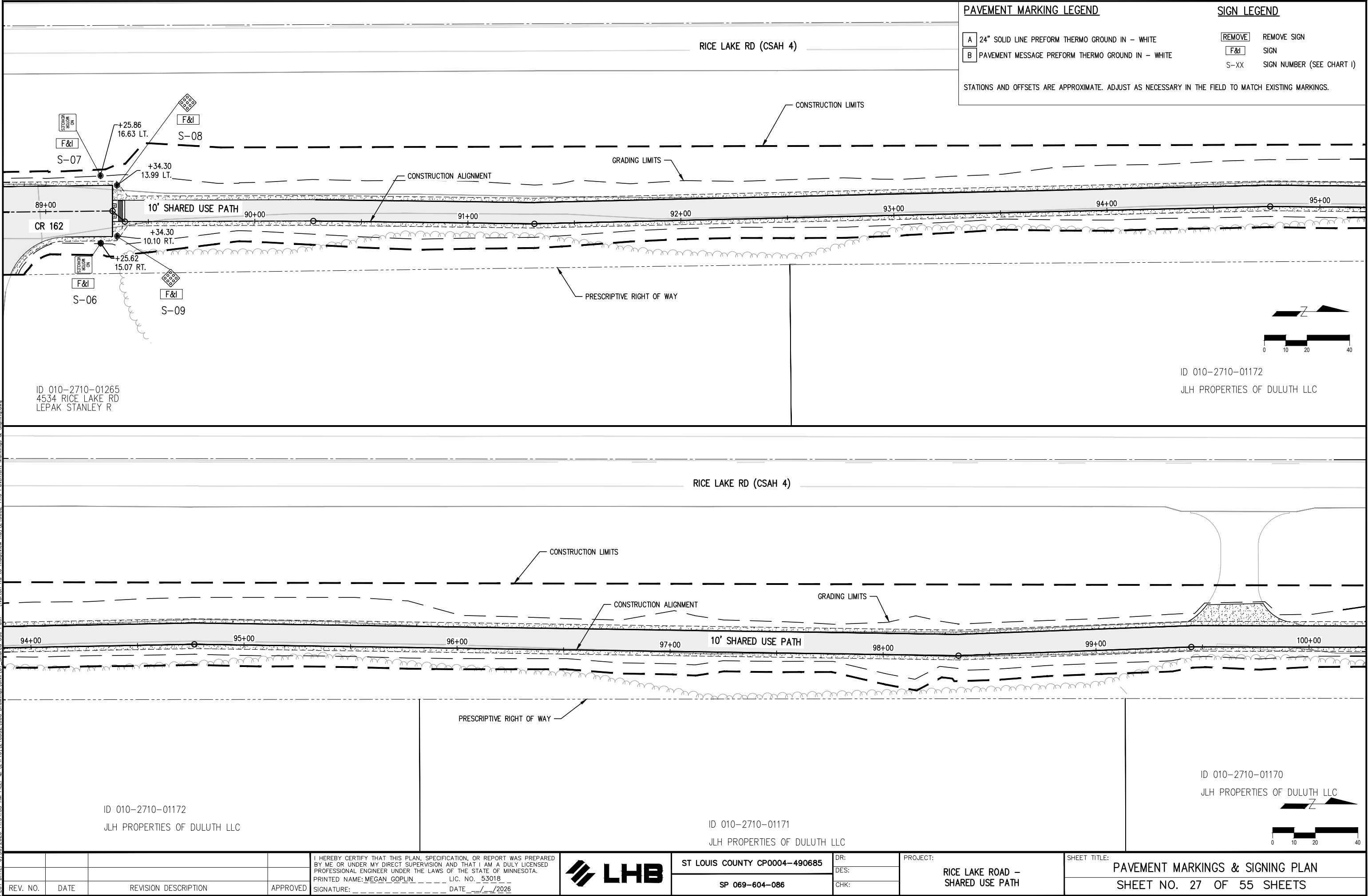
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PLAN & PROFILE - CULVERT  
SHEET NO. 25 OF 55 SHEETS







Plot Date: 6/30/2026 11:54:33 AM File: Q:\24Pro\240652\500 Drawings\Civil\01 Shared Use Path - (Norton Rd to Ridgeview Rd)\240652 11.0 Pavement Markings & Signing.dwg



| REV. NO. | DATE | REVISION DESCRIPTION | APPROVED |
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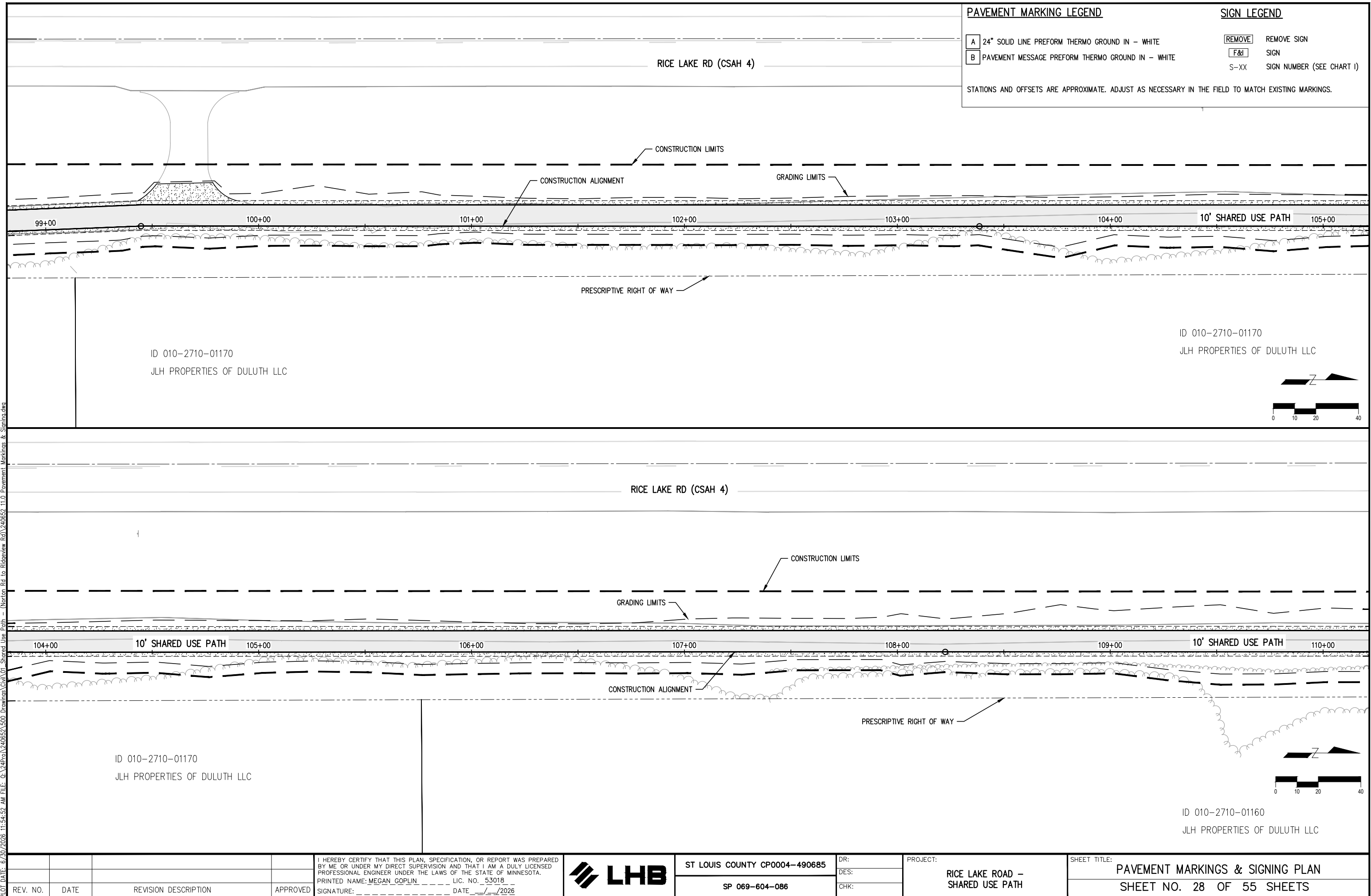
ST LOUIS COUNTY CP0004-490685  
SP 069-604-086

DR: \_\_\_\_\_  
DES: \_\_\_\_\_  
CHK: \_\_\_\_\_

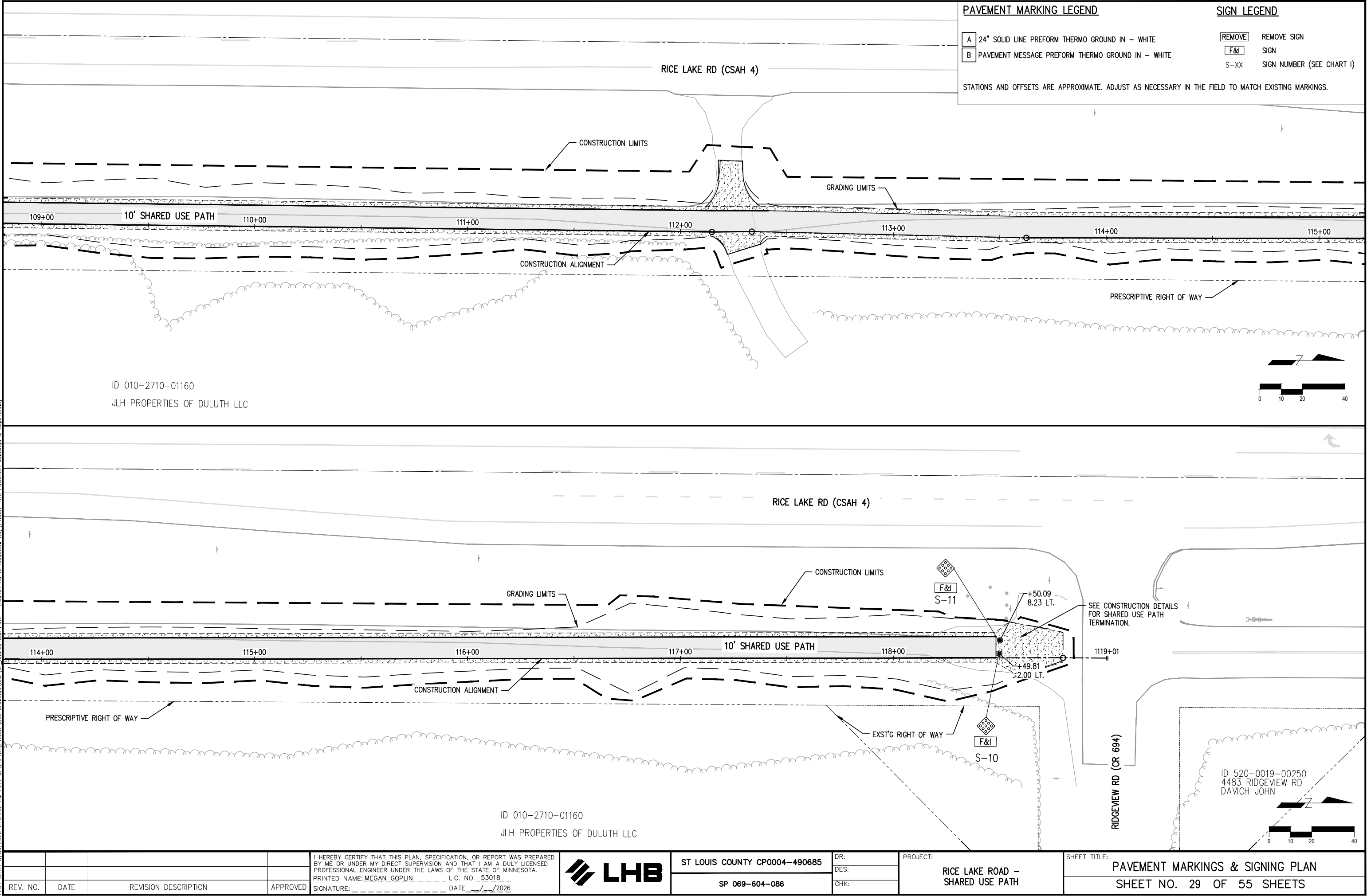
PROJECT: RICE LAKE ROAD - SHARED USE PATH

SHEET TITLE: PAVEMENT MARKINGS & SIGNING PLAN  
SHEET NO. 27 OF 55 SHEETS





LHB PROJECT NO. 240652



STORM WATER POLLUTION PREVENTION PLAN (SWPPP) NARRATIVE:

CHAIN OF RESPONSIBILITY

THE COUNTY AND THE CONTRACTOR ARE CO-PERMITTEES FOR THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) CONSTRUCTION PERMIT. THE CONTRACTOR IS RESPONSIBLE TO COMPLY WITH ALL ASPECTS OF THE NPDES CONSTRUCTION PERMIT AT ALL TIMES UNTIL THE SITE HAS UNDERGONE FINAL STABILIZATION, AND A NOTICE OF TERMINATION (NOT) (PERMIT SECTIONS 4 AND 13) HAS BEEN SUBMITTED TO THE MPCA. THE CONTRACTOR WILL DEVELOP A CHAIN OF COMMAND WITH ALL OPERATORS ON THE SITE TO ENSURE THAT THE SWPPP WILL BE IMPLEMENTED AND STAY IN EFFECT UNTIL THE CONSTRUCTION PROJECT IS COMPLETE, AND THE (NOT) HAS BEEN FILED WITH THE MPCA. KEEP AND POST A COPY OF THE NOTIFICATION OF COVERAGE FROM THE MPCA AT THE SITE (PERMIT ITEM 3.6).

EROSION PREVENTION PRACTICES (PERMIT SECTION 8)

- 1. DELINEATE LOCATIONS NOT TO BE DISTURBED BEFORE WORK BEGINS (PERMIT ITEM 8.2).
- 2. MINIMIZE DISTURBANCE OF STEEP SLOPES. USE TECHNIQUES SUCH AS PHASING, SLOPE DRAINS, TERRACING, AND OTHER STEEP SLOPE STABILIZATION BMP'S (PERMIT ITEM 8.3).
- 3. PROPERTY DESIGNED DITCH OR SWALES (WITH ROCK DITCH CHECKS, BIO ROLLS, ETC) USED FOR SEDIMENT CONTAINMENT SYSTEM DO NOT NEED STABILIZATION AND ONLY NEED APPROPRIATE SEDIMENT CONTROLS. STABILIZE WITHIN 24 HOUR AFTER USE (PERMIT ITEM 8.7 AND 9.4).
- 4. WHERE FEASIBLE ROUTE STORMWATER AROUND NON-STABILIZED AREAS.

SEDIMENT CONTROL PRACTICES (PERMIT SECTION 9):

- 1. ESTABLISH SEDIMENT CONTROL BMPS ON ALL DOWNGRADIENT PERIMETERS THAT DRAIN TO ANY SURFACE WATER INCLUDING STORM CONVEYANCE SYSTEMS (PERMIT ITEM 9.2).
- 2. FLOATING SILT CURTAIN IS NOT A SEDIMENT CONTROL BMP EXCEPT WHEN WORKING ON THE SHORELINE OR BELOW WATERLINE (PERMIT ITEM 9.5)
- 3. SEDIMENT CONTROL BMP MAY BE REMOVED OR ADJUSTED FOR SHORT-TERM ACTIVITIES (SUCH AS CLEARING, GRUBBING, VEHICLE PASSAGE, ETC.) BUT MUST BE REINSTALLED (PERMIT ITEM 9.6):
  - 3.1. IMMEDIATELY AFTER SHORT-TERM ACTIVITY IS COMPLETED.
  - 3.2. BEFORE NEXT PRECIPITATION EVENT EVEN IF SHORT-TERM ACTIVITY IS NOT COMPLETE.
- 4. INLET PROTECTION MAY BE REMOVED FROM AN INLET IF A SPECIFIC SAFETY CONCERN IS IDENTIFIED. DOCUMENT THIS EVENT IN THE SWPPP (PERMIT ITEM 9.8)
- 5. PROVIDE EFFECTIVE SEDIMENT CONTROLS AT THE BASE OF STOCKPILES (PERMIT ITEM 9.9). LOCATE STOCKPILES OUTSIDE OF NATURAL BUFFERS, SURFACE WATERS, AND STORMWATER CONVEYANCES (PERMIT ITEM 9.10).
- 6. INSTALL TEMPORARY SEDIMENT BASINS AS REQUIRED IN PERMIT SECTION 14 (PERMIT ITEM 9.13).
- 7. RESTRICT VEHICLE AND EQUIPMENT USE ON AREAS WHERE VEGETATION WILL BE REESTABLISHED TO REDUCE SOIL COMPACTION. USE SUBSOILING (MNDOT SPEC 2574.3.A.4) TO RESTORE HAUL ROADS AND OTHER AREAS THAT WERE COMPACTED DURING CONSTRUCTION (PERMIT ITEM 9.14).
- 8. PRESERVE TOPSOIL ON SITE, UNLESS INFEASIBLE (PERMIT ITEM 9.15).
- 9. DISCHARGE BMPS TO VEGETATED AREAS UNLESS INFEASIBLE (PERMIT ITEM 9.16).
- 10. PRESERVE 50- FEET NATURAL BUFFER (100- FEET FOR SPECIAL WATERS) FROM SURFACE WATERS PERMIT (ITEMS 9.17 AND 23.11). WHERE INFEASIBLE PROVIDE REDUNDANT PERIMETER SEDIMENT CONTROLS (INSTALL AT LEAST 5 FEET APART).
- 11. STABILIZE ANY SEDIMENT CONTROL MADE OF SOIL WITHIN 24 HOURS (PERMIT ITEM 9.18).
- 12. USE ACCEPTED ENGINEERING PRACTICES WHEN USIGN POLYMERS, FLOCCULANTS, OR OTHER SEDIMENTATION TREATMENT CHEMICALS. USE DOSING SPECIFICATIONS AND SEDIMENT REMOVAL DESIGN SPECIFICATION PROVIDED BY THE MANUFACTURER OR SUPPLIER. USE CONVENTIONAL EROSION AND SEDIMENT CONTROLS PRIOR TO CHEMICAL ADDITION AND DIRECT TREATED STORMWATER TO A SEDIMENT CONTROL SYSTEM FOR FILTRATION OR SETTLEMENT OF THE FLOC PRIOR TO DISCHARGE (PERMIT ITEM 9.19).

DEWATERING AND BASIN DRAINING (PERMIT SECTION 10):

- 1. DURING DEWATERING DO NOT CAUSE NUISANCE CONDITIONS. CEASE DEWATERING IMMEDIATELY IF NUISANCE CONDITIONS OCCURE. NUISANCE CONDITIONS INCLUDE BUT ARE ON LIMITED TO (PERMIT ITEM 10.3):
  - 1.1. SEDIMENT PLUMES
  - 1.2. DISCHARGE APPEARS CLOUDY OR OPAQUE
  - 1.3. VISIBLE OIL FILM
  - 1.4. AQUATIC HABITAT DEGRADATION
- 2. DISCHARGE TURBID OR SEDIMENT-LADEN WATER TO SEDIMENT TRAP, SEDIMENT BASIN, FILTER BAG, OR OTHER SEDIMENT CONTROL. TO THE EXTENT FEASIBLE DISCHARGE TO WELL VEGETATED UPLAND AREA (PERMIT ITEM 10.2).
- 3. PERMITTEES ARE PROHIBITED FROM USING RECEIVING WATER AS PART OF THE TREATMENT AREA (PERMIT ITEM 10.2).
- 4. USE AN OIL-WATER SEPARATOR OR SUITABLE FILTRATION DEVICE FOR WATER CONTAINING OIL OR GREASE (PERMIT ITEM 10.4).
- 5. DISCHARGE WATER IN A MANNER THAT DOES NOT CAUSES EROSION OR SCOUR OR INUNDATION OF WETLANDS IN THE IMMEDIATE VICINITY OF DISCHARGE POINT (PERMIT ITEM 10.5).
- 6. IF FILTERS WITH BACKWASH WATER ARE USED, HAUL BACKWASH WATER AWAY FOR DISPOSAL, RETURN THE BACKWASH WATER TO THE BEGINNING OF THE TREATMENT PROCESS, OR INCORPORATE THE BACKWASH WATER INTO THE SITE IN A MANOR THAT DOES NOT CAUSE EROSION (PERMIT ITEM 10.6).

POLLUTION PREVENTION MANAGEMENT MEASURE (PERMIT SECTION 12):

- 1. PLACE CONSTRUCTION MATERIALS THAT ARE A SOURCE CONTAMINATION UNDER COVER PROTECTING THEM FROM STORMWATER (PERMIT ITEM 12.2). THESE MATERIALS INCLUDE BUT ARE NOT LIMITED TO (PERMIT ITEMS 12.2 AND 12.3):
  - 1.1. PESTICIDES
  - 1.2. FERTILIZERS
  - 1.3. TREATMENT CHEMICALS
- 2. STORE HAZARDOUS MATERIALS AND WASTE IN SEALED CONTAINERS TO PREVENT SPILLS, LEAKS, AND OTHER DISCHARGE, INCLUDE SECONDARY CONTAINMENT AS APPLICABLE. TAKE REASONABLE STEPS TO PREVENT DISCHARGE AND SPILLS. THESE PRODUCES INCLUDING (PERMIT ITEMS 12.4, 12.5, AND 12.7):
  - 2.1. OIL
  - 2.2. DIESEL FUEL, GASOLINE, AND OTHER PETROLEUM PRODUCTS
  - 2.3. HYDRAULIC FLUIDS
  - 2.4. PAINTS AND SOLVENTS
  - 2.5. WOOD PRESERVATIVES
  - 2.6. CURING COMPOUNDS
  - 2.7. ACIDS
- 3. STORE COLLECT AND DISPOSE OF SOLID WASTE IN COMPLIANCE WITH MINN. R. CH. 7035 (PERMIT ITEM 12.5).
- 4. POSITION PORTABLE TOILETS AND SECURE TO PREVENT BEING KNOCKED OVER.
- 5. LIMIT VEHICLE EXTERIOR AND EQUIPMENT WASHING TO A DEFINED AREA. DISPOSE WASTE FROM WASHING PROPERLY (PERMIT ITEM 12.8).
- 6. PROVIDE EFFECTIVE CONTAINMENT FOR ALL LIQUID AND SOLID WASTES GENERATED BY WASHOUT OPERATIONS FROM (PERMIT ITEM 12.9).
  - 6.1. CONCRETE, STUCCO, AND GROUT
  - 6.2. PAINT
  - 6.3. FORM RELEASE OIL
  - 6.4. CURING COMPOUND
  - 6.5. ANY OTHER CONSTRUCTION MATERIALS
- 7. ENGINE DEGREASING PROHIBITED ONSITE

SITE INSPECTION AND MAINTENANCE (PERMIT SECTION 11):

INSPECT THE ENTIRE CONSTRUCTION SITE AT A MINIMUM (PERMIT ITEM 11.2):

- 1. ONCE EVERY 7 DAYS
- 2. WITHIN 24 HOURS OF A RAINFALL GREATER THAN 0.5 INCH IN 24 HOURS
- 3. ONCE EVERY 24 HOUR FOR DEWATERING OPERATIONS (INCLUDES PHOTOGRAPH)

RECORD ALL INSPECTIONS AND MAINTENANCE IN WRITING AND SUBMIT TO THE CITY. INCLUDE THE FOLLOWING AT A MINIMUM (PERMIT ITEM 11.12):

- 1. DATE AND TIME OF INSPECTION
- 2. NAME OF INSPECTOR
- 3. REASON FOR INSPECTION
- 4. FINDINGS OF INSPECTION
- 5. CORRECTIVE ACTIONS NEEDED AND TAKEN, INCLUDING DATES, TIME, PERSON COMPLETING ACTION, DOCUMENT DISCHARGES
- 6. DOCUMENTED CHANGES TO THE SWPPP
- 7. PHOTOGRAPHS

INSPECT ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL BMPS AND STORMWATER TREATMENT. REPAIR, REPLACE, CLEAN, OR SUPPLEMENT NONFUNCTIONAL BMPS BY THE END OF THE NEXT BUSINESS DAY AFTER DISCOVERY UNLESS NOTED BELOW (PERMIT ITEM 11.3 AND 11.4).

- 1. SITE VEHICLE EXIT LOCATION, STREETS, AND CURB AND GUTTER SYSTEMS (PERMIT ITEM 11.6)
  - 1.1. REMOVE SEDIMENT FROM PAVED SURFACES WITHIN ONE CALENDAR DAY
  - 1.2. REMOVE SEDIMENT AS SOON AS POSSIBLE IF DEEMED A SAFETY HAZARD
- 2. PERIMETER CONTROL DEVICES (PERMIT ITEM 11.7)
  - 2.1. SUPPLEMENT, CLEAN, OR REPLACE WHEN THE DEPTH OF SEDIMENT REACHES HALF THE STORAGE VOLUME
- 3. TEMPORARY AND PERMANENT SEDIMENTATION BASINS (PERMIT ITEM 11.8)
  - 3.1. DRAIN AND REMOVE SEDIMENT WHEN DEPTH OF SEDIMENT REACHES 0.5 THE STORAGE VOLUME
- 4. DEWATERING OPERATIONS (PERMIT ITEM 10.2 AND 11.9)
  - 4.1. INSPECT AND PHOTOGRAPH AT LEAST AT THE BEGINNING OF OPERATION AND ONCE EVERY 24 HOURS DURING OPERATION

INSPECT AREAS ADJACENT TO THE PROJECT. IF SEDIMENT DEPOSITED ARE DISCOVERED REMOVE DEPOSITED WITHIN 7 DAYS AS REQUIRE IN PERMIT ITEM 11.5.

AT A MINIMUM INSPECT:

- 1. SURFACE WATER
- 2. DRAINAGE DITCHES
- 3. CONVEYANCE SYSTEMS

INSPECTION SCHEDULE MAY BE ADJUSTED AS OUTLINED IN PERMIT ITEM 11.11 WHEN APPROVED BY CITY.

AMENDMENT TO SWPPP (PERMIT SECTION 6):

- 1. THE SWPPP CAN ONLY BE AMENDED BY A QUALIFIED INDIVIDUAL. INDIVIDUAL'S NAME AND QUALIFICATION SHALL BE RECORDED IN THE SWPPP. DOCUMENT AMENDMENTS TO THE SWPPP AND KEEP ON SITE (PERMIT ITEM 6.2).
- 2. THE SWPPP MUST BE AMENDED, WITHIN 7 DAYS, WHEN:
  - 2.1. THERE IS A CHANGE THAT HAS A SIGNIFICANT EFFECT ON THE DISCHARGE OF POLLUTANTS TO SURFACE OR GROUND WATERS CAUSED BY (PERMIT ITEM 6.3 AND 6.4):
    - 2.1.1. DESIGN
    - 2.1.2. CONSTRUCTION OPERATION AND MAINTENANCE
    - 2.1.3. WEATHER OR SEASONAL CONDITIONS
    - 2.1.4. BMP'S ARE NOT EFFECTIVE (PERMIT ITEM 9.3)
    - 2.1.5. SITE IS CAUSING NUISANCE CONDITIONS
    - 2.1.6. NOT MEETING THE OBJECTIVES OF AN APPROVED TMDL

BMP INSTALLATION TIMING (PERMIT ITEM 5.4):

- 1. INITIATE STABILIZATION IMMEDIATELY WHEN CONSTRUCTION HAS TEMPORARILY OR PERMANENTLY CEASED IN A PORTION OF THE PROJECT.
  - 1.1. COMPLETE STABILIZATION WITH IN 14 DAYS (7 OF SPECIAL OR IMPAIRED WATERS) (PERMIT ITEM 8.4)
  - 1.2. STABILIZE THE NORMAL WETTER PERIMETER OF THE LAST 200 LIN FT OF TEMPORARY OR PERMANENT DITCHES OR SWALES WITH 24 HOURS (PERMIT ITEM 8.6). DO NOT USE MULCH, HYDROMULCH, TACKIFIER, POLYACRYLAMIDE OR SIMILAR BMP ON DITCH SLOPES GREATER THEN 2% (PERMIT ITEM 8.7)
  - 1.3. PROVIDE TEMPORARY OF PERMANENT ENERGY DISSIPATION AT ALL PIPE OUTLETS WITH 24 HOUR (PERMIT ITEM 8.8).
- 2. STABILIZE ALL AREAS OF THE SITE PRIOR TO THE ONSET OF WINTER. ANY WORK STILL BEING PERFORMED WILL BE SNOW MULCHED, SEEDED, AND BLANKETED WITHIN THE TIME FRAMES IN THE NPDES PERMIT.
- 3. TEMPORARY SEED SHALL BE:
  - 3.1. SINGLE YEAR CONSTRUCTION BETWEEN MAY-1 – AUGUST 1, USE SEED MIX 21-111.
  - 3.2. SINGLE YEAR CONSTRUCTION BETWEEN AUGUST 1 – OCTOBER 31, USE SEED MIX 21-112
  - 3.3. MULTI YEAR CONSTRUCTION 22-111
- 4. TIMING FOR INSTALLATION OF EROSION & SEDIMENTATION BMPS AND PERMANENT STORWATER MANAGEMENT SYSTEMS, IN GENERAL SEQUENTIAL ORDER:
  - 4.1. INSTALL PRIOR TO CONSTRUCTION:
    - 4.1.1. INLET PROTECTION FOR EXISTING INLETS (PERMIT ITEM 9.7)
    - 4.1.2. SILT FENCE OR OTHER PERIMETER CONTROL BMPS (PERMIT ITEM 9.2)
    - 4.1.3. DELINEATION AREAS NOT TO BE DISTURBED (PERMIT ITEM 8.2)
    - 4.1.4. ROCK CONSTRUCTION ENTRANCE (PERMIT ITEM 9.11)
    - 4.1.5. FUELING AND OTHER HAZARDOUS MATERIALS CONTAINMENT AREA (PERMIT ITEM 12.4 AND 12.7)
  - 4.2. DURING CONSTRUCTION:
    - 4.2.1. SILT FENCE OR BIOROLL AROUND STOCKPILES (PERMIT ITEM 9.9)
    - 4.2.2. CONTAINMENT FOR LIQUID AND SOLID WASTES (PERMIT ITEM 12.9)
    - 4.2.3. TREATMENT SYSTEMS FOR DEWATERING OPERATIONS (PERMIT SECTION 10)
    - 4.2.4. INLET PROTECTION FOR NEW INLETS (PERMIT ITEM 9.7)
    - 4.2.5. STREET SWEEPING TO REMOVE TRACKING FROM PAVED SURFACES (PERMIT ITEM 9.12)
    - 4.2.6. USE RAPID STABILIZATION TYPE 3 WHEN NEEDED
  - 4.3. AFTER STABILIZATION (70% UNIFORM PERENNIAL VEGETATION) (PERMIT ITEM 13.2):
    - 4.3.1. CLEAN PERMANENT STORMWATER TREATMENT AND CONVEYANCE SYSTEMS (PERMIT ITEM 13.3 AND 13.4)
    - 4.3.2. REMOVE ALL SYNTHETIC TEMPORARY BMP'S (PERMIT ITEM 13.5)

PLOT DATE: 6/30/2026 11:57:08 AM FILE: G:\24Pro\240652\500 Drawings\Civil\01 Shared Use Path - (Norton Rd to Ridgeview Rd)\240652\_08.0 SWPPP Narrative.dwg

|          |      |                      |          |                                                                                                                                                                                                                                                                                                            |                                                                                       |                               |                     |                                                     |                                                                |
|----------|------|----------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------------------------------|---------------------|-----------------------------------------------------|----------------------------------------------------------------|
|          |      |                      |          | I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.<br>PRINTED NAME: MEGAN GOPLIN _____ LIC. NO. 53018 ____<br>SIGNATURE: _____ DATE: ____/____/2026 |  | ST LOUIS COUNTY CP0004-490685 | DR:<br>DES:<br>CHK: | PROJECT:<br><br>RICE LAKE ROAD –<br>SHARED USE PATH | SHEET TITLE:<br>STORMWATER POLLUTION PREVENTION PLAN NARRATIVE |
| REV. NO. | DATE | REVISION DESCRIPTION | APPROVED |                                                                                                                                                                                                                                                                                                            |                                                                                       | SP 069-604-086                |                     |                                                     | SHEET NO. 30 OF 55 SHEETS                                      |

STORM WATER POLLUTION PREVENTION PLAN (SWPPP) NARRATIVE (CONTINUED):

LAND FEATURE CHANGES (PERMIT ITEM 5.8):

|                                                      |            |
|------------------------------------------------------|------------|
| TOTAL DISTURBED AREA                                 | 0.04 ACRES |
| TOTAL EXISTING IMPERVIOUS SURFACE AREA               | 0.52 ACRES |
| TOTAL PROPOSED IMPERVIOUS SURFACE AREA               | 1.26 ACRES |
| TOTAL PROPOSED NET CHANGE IN IMPERVIOUS SURFACE AREA | 0.74 ACRES |

ENVIRONMENTAL REVIEW (PERMIT ITEM 5.16)

- MITIGATION MEASURES DUE TO REVIEW: THERE ARE NO STORMWATER MITIGATION MEASURES REQUIRED AS A RESULT OF AN ENVIRONMENT, ARCHEOLOGICAL, OR AGENCY REVIEW.
- WELL HEAD PROTECTION AREA: THIS PROJECT IS NOT LOCATED IN A WELL HEAD PROTECTION AREA.
- DRINKING WATER SUPPLY MANAGEMENT AREA: THIS PROJECT IS NOT LOCATED IN A DRINKING WATER SUPPLY MANAGEMENT AREA (DWSMA).

PROJECT DESCRIPTION/LOCATION:

- PROJECT LOCATION: THE PROJECT IS LOCATED ON COUNTY ROAD 162 BETWEEN NORTON RD AND RIDGEVIEW ROAD.
- DESCRIPTION OF PROJECT: THE PROJECT CONSISTS OF GRADING AND BITUMINOUS SURFACING.
- PLANNED SOIL DISTURBANCE ACTIVITIES: EXCAVATION, CONSTRUCTION OF EMBANKMENTS, BITUMINOUS SURFACING, AND GRADING.

PERSON KNOWLEDGEABLE/TRAINED INDIVIDUALS (PERMIT ITEMS 5.20 & 21.2):

1. PERSON PREPARED THE SWPPP:

NAME: ZACH JOHNSON

TRAINING DATE/TRAINER: CERTIFICATION 01-16-2025 (EXPIRES 01-16-2028)/STORMWATER ONE

TRAINING CONTENT/HOURS: DESIGN OF CONSTRUCTION SWPPP/16 HOUR

2. CONTRACTOR OVERSEEING IMPLEMENTATION, INSPECTIONS, AND AMENDING THE SWPPP:

NAME: \_\_\_\_\_

TRAINING DATE/TRAINER: \_\_\_\_\_

TRAINING CONTENT/HOURS: \_\_\_\_\_

3. CONTRACTOR CERTIFIED EROSION CONTROL INSTALLER:

NAME: \_\_\_\_\_

TRAINING DATE/TRAINER: \_\_\_\_\_

TRAINING CONTENT/HOURS: \_\_\_\_\_

LONG TERM MAINTENANCE AND OPERATION (PERMIT ITEM 5.23)

CONTACT INFORMATION: ST. LOUIS COUNTY ENGINEERING DEPARTMENT WILL BE THE LONG TERM OWNER, OPERATOR, AND WILL MAINTAIN THE PERMANENT STORM WATER SYSTEM.

SOIL TYPES AND STORM WATER RUNOFF

- THE SOIL TYPICALLY FOUND ON THE PROJECT IS: SOIL TYPE: SEE GEOTECH REPORT FOR MORE INFORMATION.
- AREAS THAT DRAIN TO THE SITE: SEE SITE MAP ON PAGE 32.
- STORM FREQUENCY AND INTENSITY: .

INFEASIBLE REQUIREMENTS DETERMINATIONS (PERMIT ITEM 5.13):

- TEMPORARY SEDIMENT BASINS (PERMIT SECTION 14): N/A
- PERMANENT STORMWATER TREATMENT FOR LINEAR PROJECTS (PERMIT ITEM 15.9): N/A
- BUFFER ZONES (PERMIT ITEM 9.17 AND 23.11): N/A
- VOLUME REDUCTION REQUIREMENT (PERMIT ITEM 15.5): N/A

SUMMARY OF RECEIVING WATER WITHIN 1-MILE RADIUS OF PROJECT (PERMIT ITEM 5.19 & 23.7):

| RECEIVING WATER   | LOCATION DRAINED | SPECIAL WATER | IMPAIRED WATER | TMDL | TROUT |
|-------------------|------------------|---------------|----------------|------|-------|
| MILLER CREEK (B)  | ENTIRE PROJECT   | NO            | NO             | NO   | YES   |
| CHESTER CREEK (B) | ENTIRE PROJECT   | NO            | NO             | NO   | YES   |
|                   |                  |               |                |      |       |
|                   |                  |               |                |      |       |

(A) CONSTRUCTION RELATED IMPAIRMENT, (B) NON-CONSTRUCTION RELATED IMPAIRMENT.

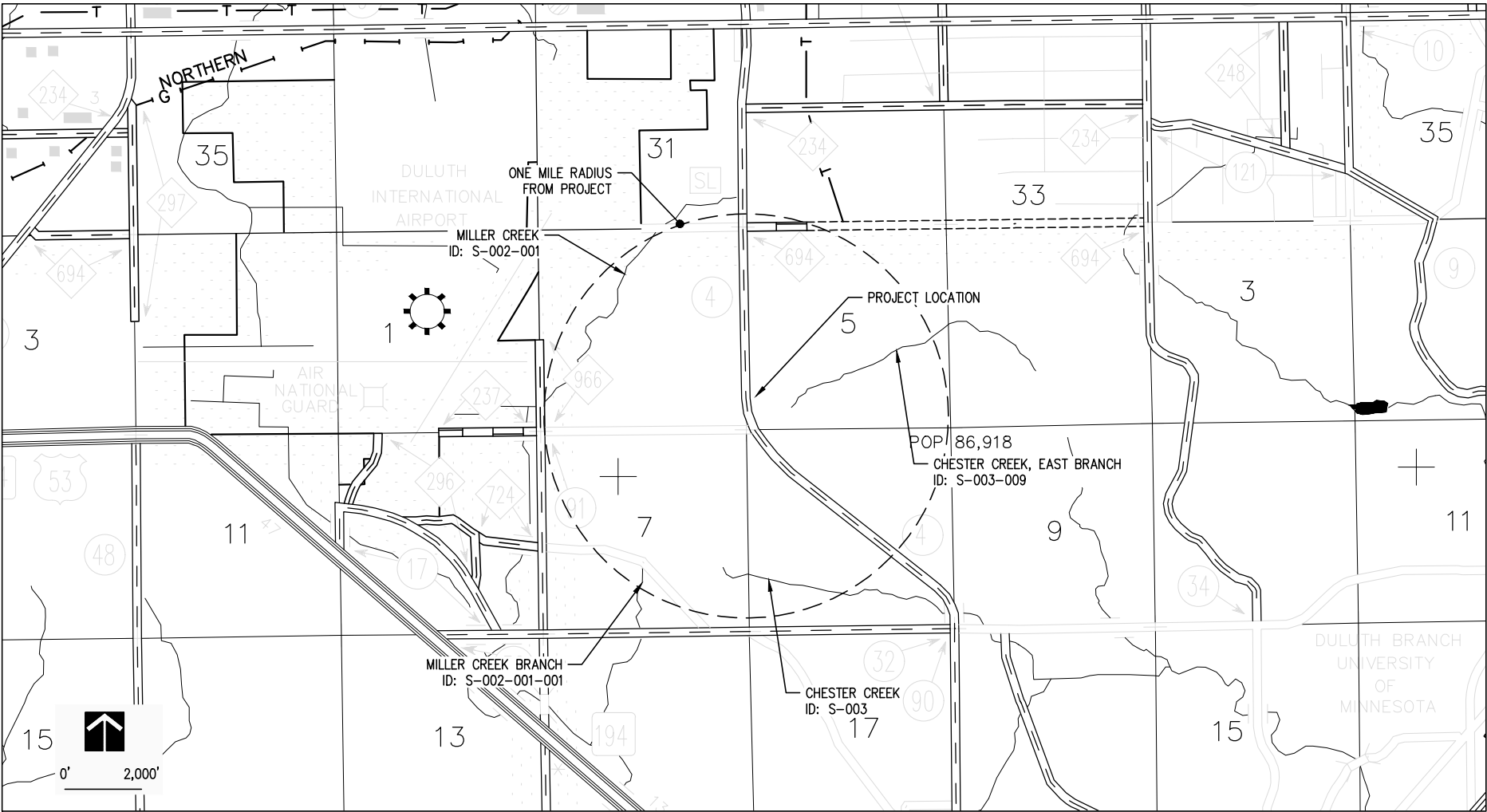
LOCATION OF SWPPP REQUIRE IN PROJECT PLAN:

| DESCRIPTION                                                                       | LOCATION         |
|-----------------------------------------------------------------------------------|------------------|
| TEMPORARY AND PERMANENT BMPS (PERMIT ITEM 5.5)                                    | SHEETS NO. 33-40 |
| EROSION AND SEDIMENT CONTROL DETAIL (PERMIT ITEM 5.5)                             | SHEETS NO. 3     |
| TABULATIONS (PERMIT ITEM 5.7)                                                     | SHEETS NO. 7-8   |
| EXISTING AND FINAL GRADES, FLOW ARROWS, AREAS OF STEEP SLOPES (PERMIT ITEM 5.9)   | SHEETS NO. 33-40 |
| DRAINAGE AREAS, DISCHARGE POINTS, AREAS OF RUNOFF ENTERING SITE (PERMIT ITEM 5.9) | SHEETS NO. 32-40 |
| DNR "WORK IN WATER RESTRICTIONS", BUFFER ZONES (PERMIT ITEM 5.11, 5.12)           | SHEETS NO. 30-32 |

PROJECT CONTACTS

| ORGANIZATION                          | CONTACT NAME  | PHONE                        |
|---------------------------------------|---------------|------------------------------|
| MPCA - EMERGENCY RELEASE NOTIFICATION | DUTY OFFICER  | 651-649-5451 OR 800-422-0798 |
| MNDNR - AREA HYDROLOGIST              | BRI SPELDRICH | 218-302-3246                 |
| SWCD - WCA LGU                        | ANDY KASUN    | 218-723-4867                 |
| BWSR - WCA                            | DAVID DEMMER  | 218-464-8289                 |
| MPCA - COMPLIANCE INSPECTOR           | JIM DEXTER    | 218-302-6632                 |

MAP OF SURFACE WATERS, WETLANDS, EXISTING PONDS WITHIN ONE MILE OF PROJECT (PERMIT ITEM 5.10):



ST LOUIS COUNTY CP0004-490685

SP 069-604-086

DR:

DES:

CHK:

PROJECT:

RICE LAKE ROAD -  
SHARED USE PATH

SHEET TITLE:

STORMWATER POLLUTION PREVENTION PLAN NARRATIVE

SHEET NO. 31 OF 55 SHEETS

**LEGEND**

--- EXISTING RIGHT OF WAY

--- EXISTING VEGETATION

--- CONSTRUCTION LIMITS

--- SILT FENCE, TYPE MS

--- DIRECTION OF FLOW

--- SEDIMENT CONTROL LOG

--- TYPE COMPOST

--- 1370 --- EXISTING CONTOUR

--- 1370 --- PROPOSED CONTOUR

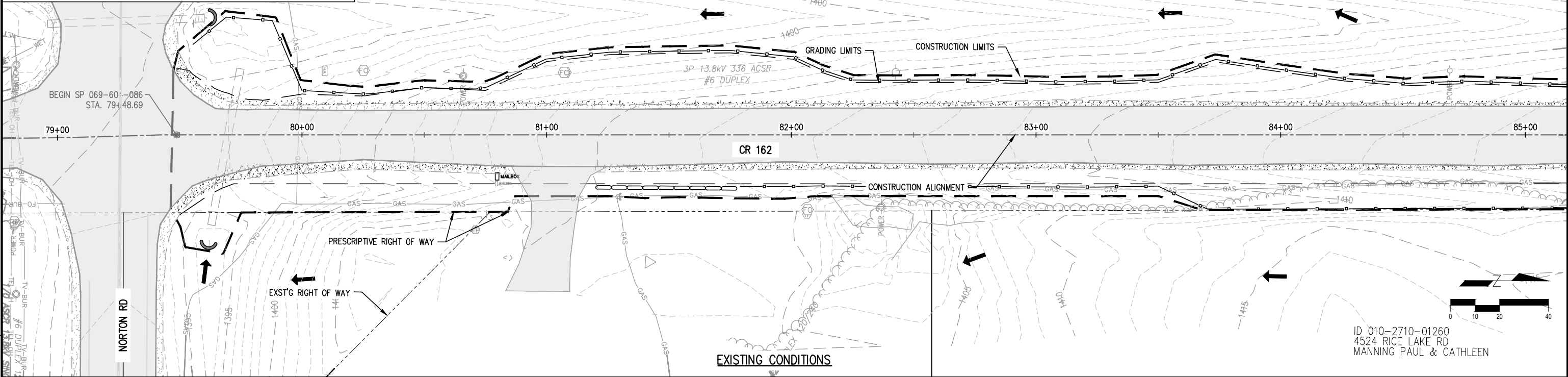
--- TURF ESTABLISHMENT - SEE CHART G

--- CULVERT END CONTROLS

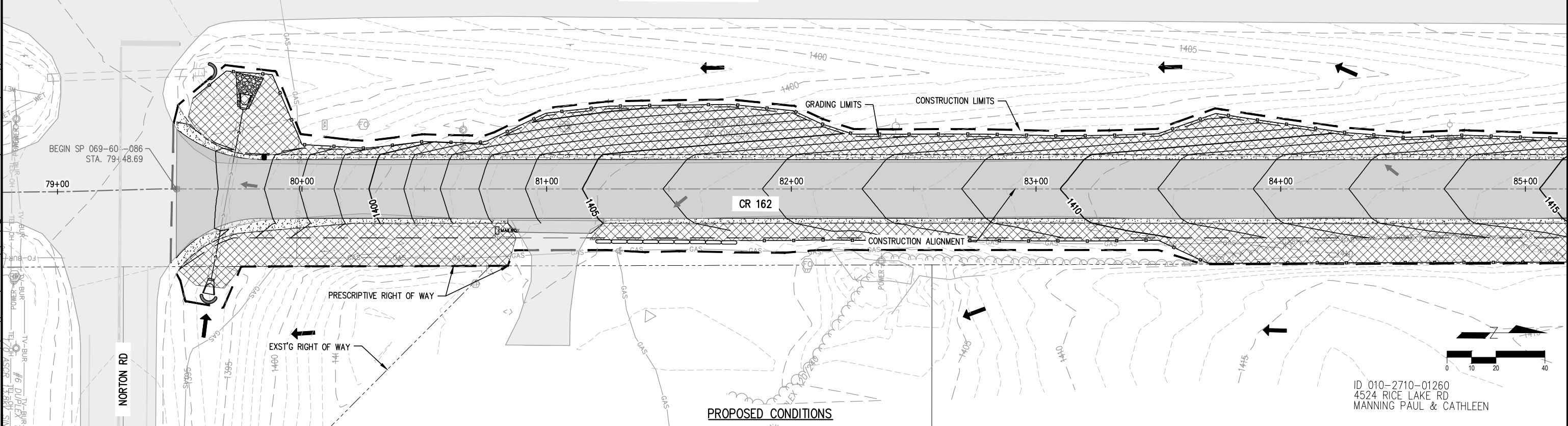
**KEY NOTES**

1 PROVIDE REDUNDANT PERIMETER CONTROL ADJACENT TO WETLANDS

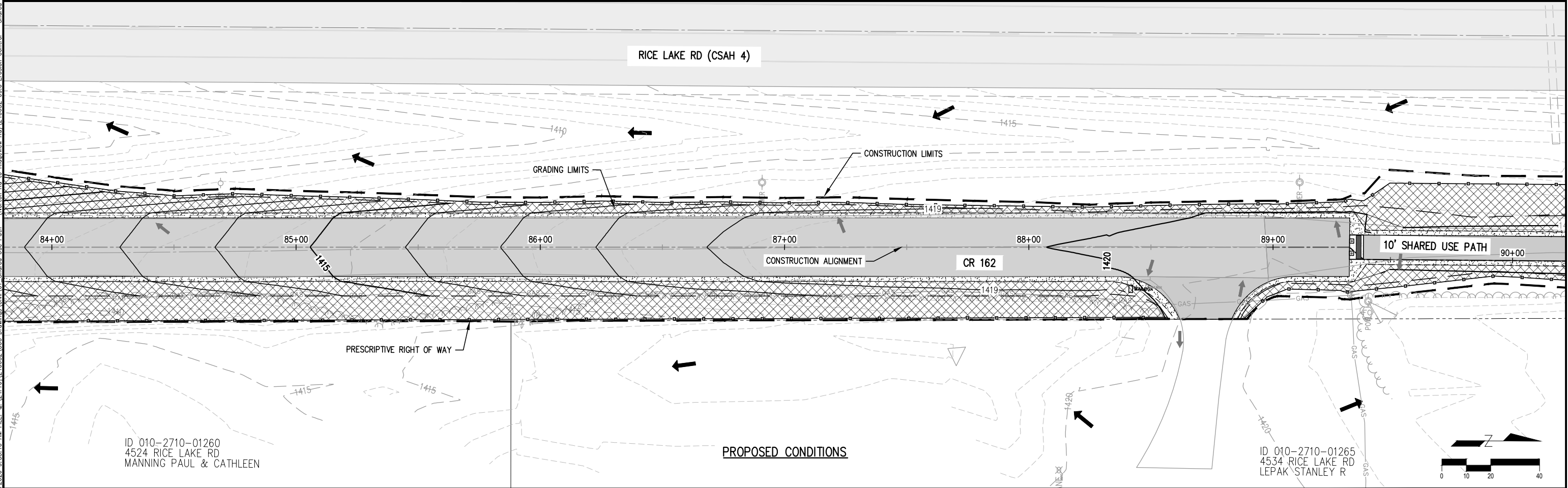
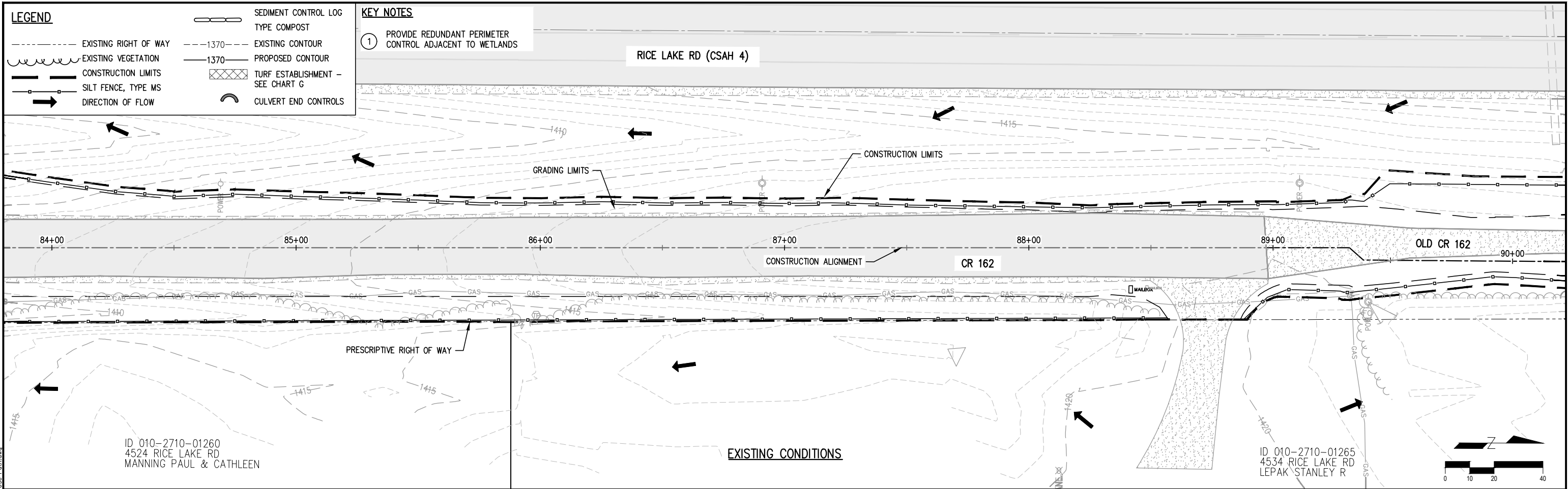
RICE LAKE RD (CSAH 4)



RICE LAKE RD (CSAH 4)



|                                                                                                                                                                                                                                                                                            |      |                      |          |            |  |                                                 |                                       |                                           |                                                                         |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------------------|----------|------------|--|-------------------------------------------------|---------------------------------------|-------------------------------------------|-------------------------------------------------------------------------|
| I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.<br>PRINTED NAME: MEGAN GOPLIN LIC. NO. 53018<br>SIGNATURE: _____ DATE: 11/1/2026 |      |                      |          | <b>LHB</b> |  | ST LOUIS COUNTY CP0004-490685<br>SP 069-604-086 | DR: _____<br>DES: _____<br>CHK: _____ | PROJECT: RICE LAKE ROAD - SHARED USE PATH | SHEET TITLE: EROSION CONTROL PLAN - CR 162<br>SHEET NO. 32 OF 55 SHEETS |
| REV. NO.                                                                                                                                                                                                                                                                                   | DATE | REVISION DESCRIPTION | APPROVED |            |  |                                                 |                                       |                                           |                                                                         |



|                                                                                                                                                                                                                                                                                             |      |                      |          |                                                                                       |                               |  |                          |                                           |                                                                         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------------------|----------|---------------------------------------------------------------------------------------|-------------------------------|--|--------------------------|-------------------------------------------|-------------------------------------------------------------------------|
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| REV. NO.                                                                                                                                                                                                                                                                                    | DATE | REVISION DESCRIPTION | APPROVED |                                                                                       | SP 069-604-086                |  | DES: _____<br>CHK: _____ |                                           |                                                                         |



**LEGEND**

--- EXISTING RIGHT OF WAY

--- EXISTING VEGETATION

--- CONSTRUCTION LIMITS

--- SILT FENCE, TYPE MS

→ DIRECTION OF FLOW

--- SEDIMENT CONTROL LOG

--- TYPE COMPOST

--- 1370 --- EXISTING CONTOUR

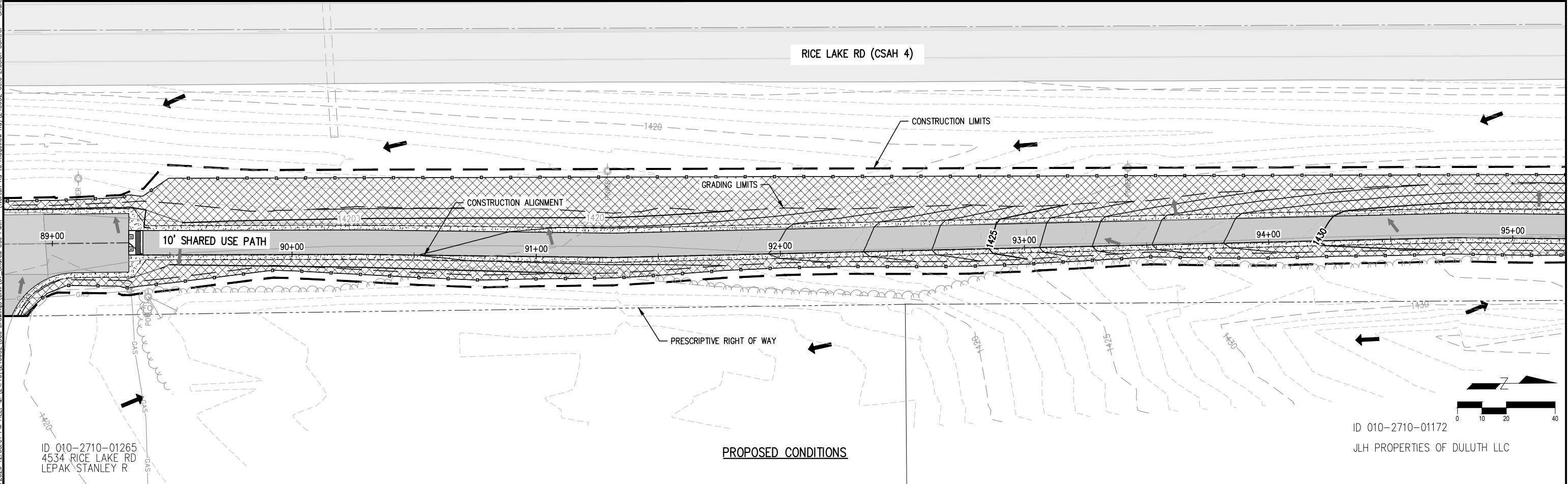
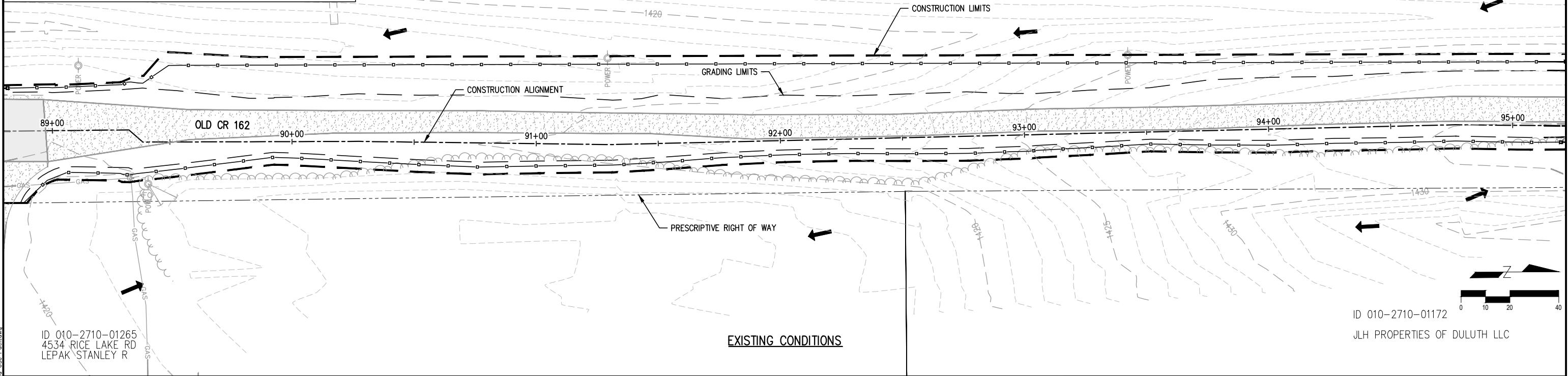
--- 1370 --- PROPOSED CONTOUR

--- TURF ESTABLISHMENT - SEE CHART G

--- CULVERT END CONTROLS

**KEY NOTES**

1 PROVIDE REDUNDANT PERIMETER CONTROL ADJACENT TO WETLANDS



|                                                                                                                                                                                                                                                                                             |      |                      |          |            |  |                                                 |                                       |                                              |                                                                                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------------------|----------|------------|--|-------------------------------------------------|---------------------------------------|----------------------------------------------|-------------------------------------------------------------------------------------|
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| REV. NO.                                                                                                                                                                                                                                                                                    | DATE | REVISION DESCRIPTION | APPROVED |            |  |                                                 |                                       |                                              |                                                                                     |

**LEGEND**

--- EXISTING RIGHT OF WAY

--- EXISTING VEGETATION

--- CONSTRUCTION LIMITS

--- SILT FENCE, TYPE MS

→ DIRECTION OF FLOW

--- SEDIMENT CONTROL LOG

--- TYPE COMPOST

--- EXISTING CONTOUR

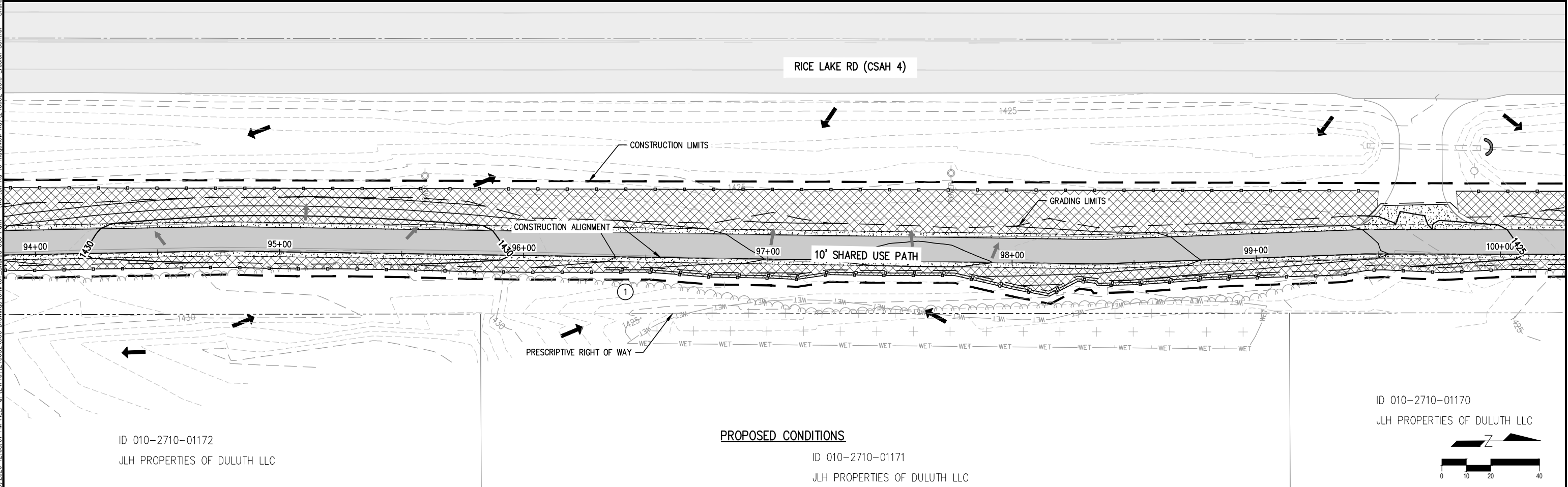
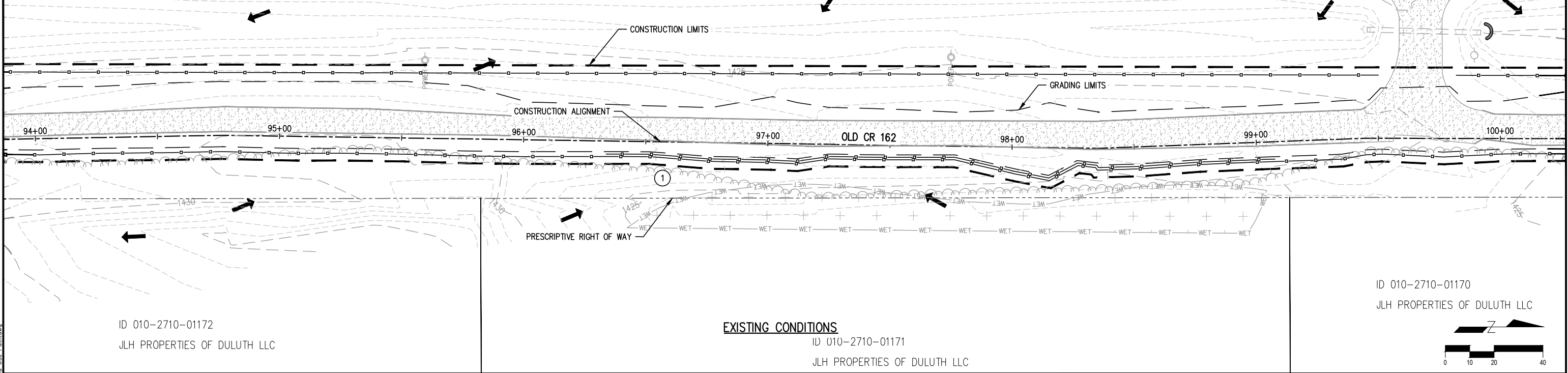
--- PROPOSED CONTOUR

--- TURF ESTABLISHMENT - SEE CHART G

--- CULVERT END CONTROLS

**KEY NOTES**

1 PROVIDE REDUNDANT PERIMETER CONTROL ADJACENT TO WETLANDS



|                                                                                                                                                                                                                                                                                             |      |                      |          |  |  |                                                 |                                       |                                              |                                                                                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------------------|----------|--|--|-------------------------------------------------|---------------------------------------|----------------------------------------------|-------------------------------------------------------------------------------------|
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| REV. NO.                                                                                                                                                                                                                                                                                    | DATE | REVISION DESCRIPTION | APPROVED |  |  |                                                 |                                       |                                              |                                                                                     |



**LEGEND**

--- EXISTING RIGHT OF WAY

--- EXISTING VEGETATION

--- CONSTRUCTION LIMITS

--- SILT FENCE, TYPE MS

→ DIRECTION OF FLOW

--- SEDIMENT CONTROL LOG

--- TYPE COMPOST

--- 1370 --- EXISTING CONTOUR

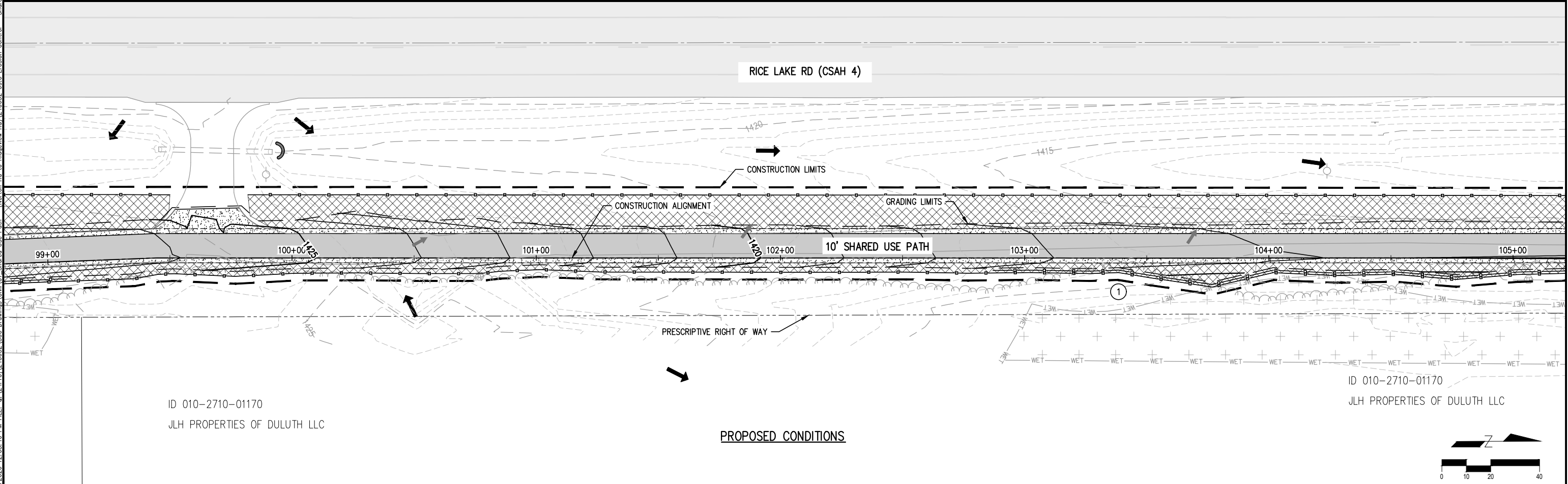
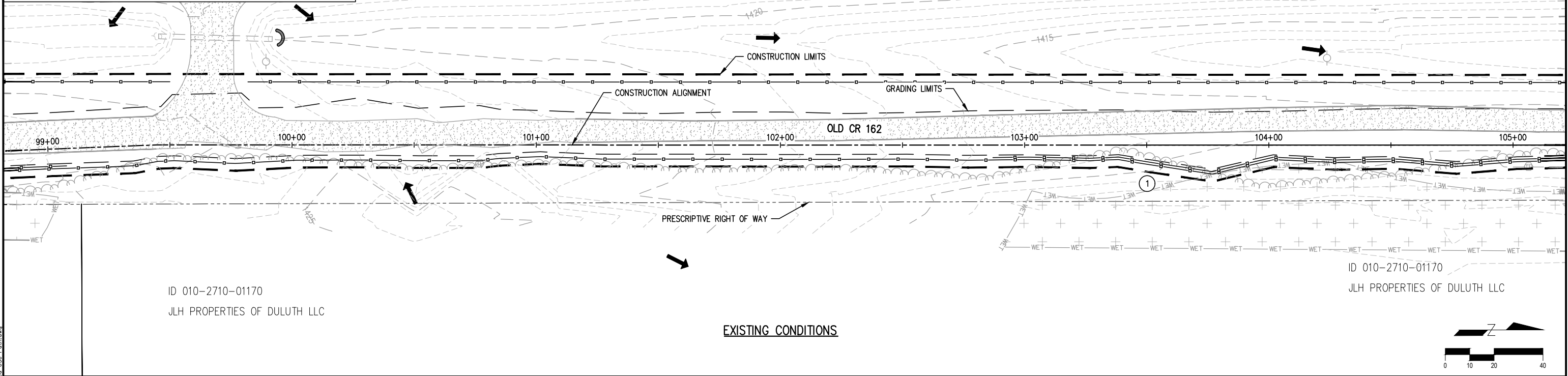
--- 1370 --- PROPOSED CONTOUR

--- TURF ESTABLISHMENT - SEE CHART G

--- CULVERT END CONTROLS

**KEY NOTES**

1 PROVIDE REDUNDANT PERIMETER CONTROL ADJACENT TO WETLANDS



|          |      |                      |          |                                                                                                                                                                                                                                                                                                |                                                                                       |                               |      |                                                     |                                                                                         |
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|          |      |                      |          |                                                                                                                                                                                                                                                                                                |                                                                                       | SP 069-604-086                | DES: |                                                     |                                                                                         |
| REV. NO. | DATE | REVISION DESCRIPTION | APPROVED |                                                                                                                                                                                                                                                                                                |                                                                                       | CHK:                          |      |                                                     |                                                                                         |



**LEGEND**

--- EXISTING RIGHT OF WAY

--- EXISTING VEGETATION

--- CONSTRUCTION LIMITS

--- SILT FENCE, TYPE MS

→ DIRECTION OF FLOW

--- SEDIMENT CONTROL LOG

--- TYPE COMPOST

--- EXISTING CONTOUR

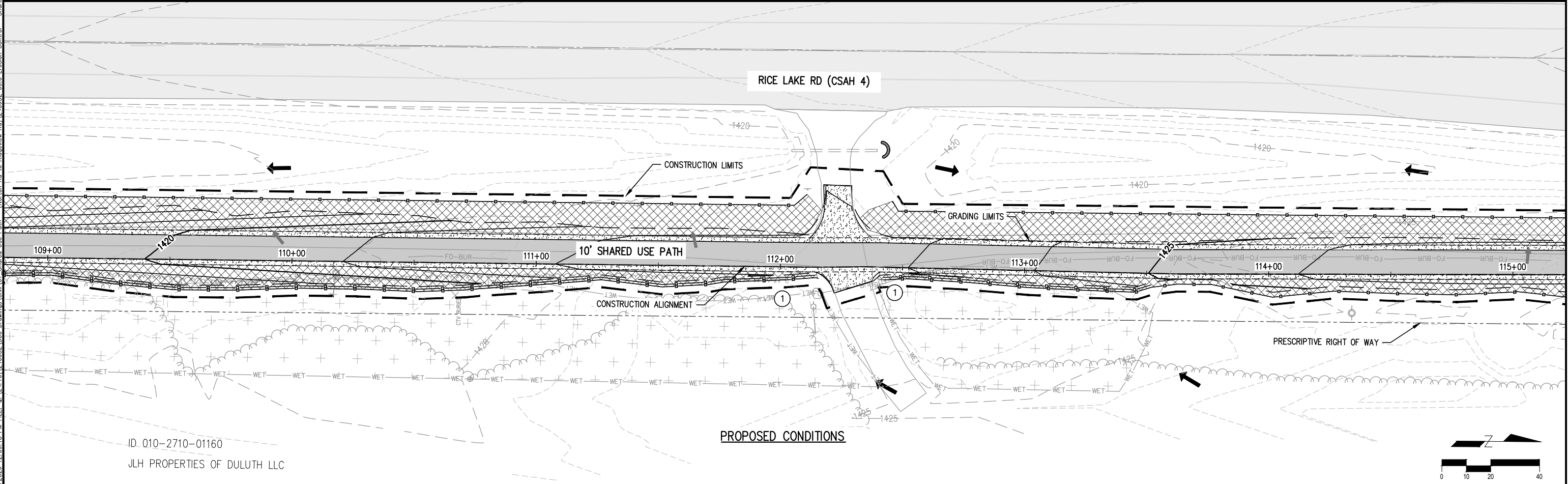
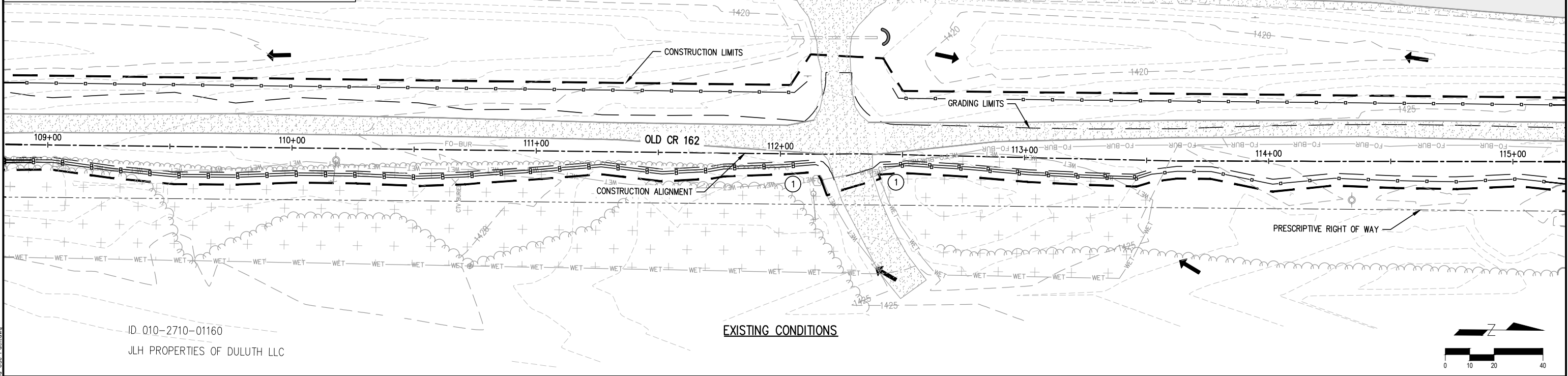
--- PROPOSED CONTOUR

--- TURF ESTABLISHMENT - SEE CHART G

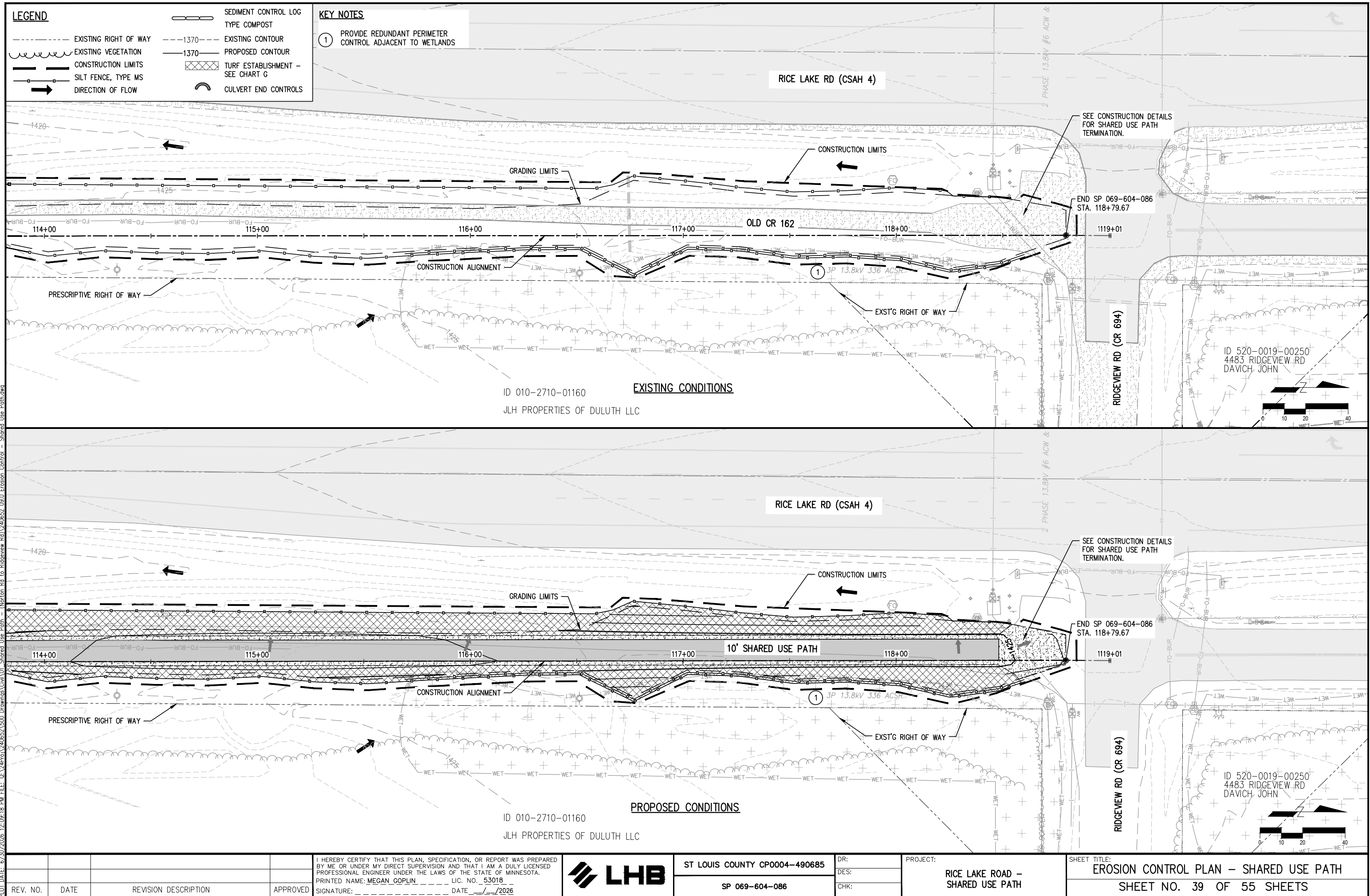
--- CULVERT END CONTROLS

**KEY NOTES**

1 PROVIDE REDUNDANT PERIMETER CONTROL ADJACENT TO WETLANDS



|          |      |                      |          |                                                                                                                                                                                                                                                                                                |                                                                                       |                               |                |                                                     |                                                        |                           |
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|          |      |                      |          |                                                                                                                                                                                                                                                                                                |                                                                                       |                               | SP 069-604-086 |                                                     | DES:                                                   |                           |
| REV. NO. | DATE | REVISION DESCRIPTION | APPROVED |                                                                                                                                                                                                                                                                                                |                                                                                       |                               |                |                                                     | CHK:                                                   | SHEET NO. 38 OF 55 SHEETS |



PLOT DATE: 6/30/2026 12:15:03 PM FILE: Q:\24Pro\240652\500 Drawings\Civil\01 Shared Use Path - (Norton Rd to Ridgeview Rd)\240652\_10.0 Traffic Control Plans.dwg

NOTES & GUIDELINES

GENERAL INFORMATION:

1. ALL DISTANCES ARE APPROXIMATE.
2. SIGN STRUCTURE TABULATIONS INDICATE SQUARE TUBE GROUND MOUNTED SIGN STRUCTURES THAT ARE MASH-16 COMPLIANT.
3. USE PRODUCTS FROM THE BASES FOR SQUARE TUBE SIGN STRUCTURES APPROVED-QUALIFIED PRODUCTS LIST FOR THE INDICATED SQUARE TUBE RISER POST SIZE. PLACE PER THE MANUFACTURER'S SPECIFICATIONS.
4. ALUMINUM STRINGERS SHALL BE USED FOR SIGNS 36 INCHES AND WIDER. SEE MANUFACTURER'S SPECIFICATIONS FOR SQUARE TUBE MOUNTING DETAILS. STRINGERS ON SINGLE POST ASSEMBLIES ARE REQUIRED TO BE AT LEAST 9 INCHES IN FROM THE EDGE OF THE SIGN.
5. UNLESS OTHERWISE INDICATED, USE 2-1/2 INCH RISER POSTS FOR GROUND MOUNTED SIGN STRUCTURES.
6. BLACK MASK SHALL BE USED TO COVER CONFLICTING PAVEMENT MARKINGS.
7. ALL SIGNING INDICATED ON THIS TRAFFIC CONTROL PLAN, EXCEPT THOSE SIGNS WHICH ARE INPLACE, SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. ALL APPROPRIATE SIGNING, INCLUDING INPLACE SIGNS, SHALL BE MAINTAINED BY THE CONTRACTOR DURING THE LIFE OF THE CONTRACT. EXISTING STOP SIGNS SHALL BE MAINTAINED FOR THE DURATION OF THE PROJECT.
8. THE CONTRACTOR SHALL RECEIVE COMPENSATION FOR ALL WORK DESCRIBED HEREIN ON THE BASIS OF A LUMP SUM PAYMENT FOR ITEM TRAFFIC CONTROL (2563.601).
9. THE CONTRACTOR SHALL PLACE ADEQUATE PLASTIC DRUMS, WARNING SIGNS, AND BARRICADES WITHIN THE CONSTRUCTION ZONE TO PROTECT VEHICULAR TRAFFIC AND PEDESTRIAN TRAFFIC FROM CONSTRUCTION OPERATIONS. ADDITIONAL SIGNING MAY INCLUDE, BUT IS NOT LIMITED TO BUMP, DIP, LOOSE GRAVEL, ETC. THE NUMBER AND PLACEMENT OF TRAFFIC CONTROL DEVICES SHALL BE DETERMINED BY THE SEQUENCE OF THE CONTRACTOR'S OPERATIONS. TRAFFIC CONTROL DEVICES MAY BE ADJUSTED IN THE FIELD AS DIRECTED BY THE ENGINEER.
10. ALL TRAFFIC CONTROL DEVICES SHALL BE REMOVED OR COVERED AS SOON AS THEY ARE NO LONGER REQUIRED OR APPROPRIATE.
11. TYPE A (LOW INTENSITY) FLASHERS SHALL BE FURNISHED, INSTALLED, AND MAINTAINED ON TYPE III BARRICADES AND ADVANCED WARNING SIGNS WHEN USED AT NIGHT, OR TO IDENTIFY HAZARDS, AND AS DETAILED IN THIS TRAFFIC CONTROL PLAN. ADDITIONAL FLASHERS SHALL BE FURNISHED, INSTALLED, AND MAINTAINED ON SIGNS, BARRICADES, AND CHANNELIZERS AS NEEDED OR AS DIRECTED BY THE ENGINEER FOR TRAFFIC CONTROL THROUGH WORK ZONES WITHIN THE PROJECT LIMITS.
12. THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTING TRAFFIC CONTROL ON THE PROJECT. ADDITIONAL TRAFFIC CONTROL (NOT SHOWN) AS NEEDED TO COMPLETE THE WORK AND/OR AS NEEDED TO ACCOMMODATE THE CONTRACTOR'S MEANS AND METHODS FOR CONSTRUCTING THE PROJECT SHALL BE CONSIDERED INCIDENTAL. ALL TRAFFIC CONTROL SHALL BE IMPLEMENTED IN ACCORDANCE WITH THE MNMUTCD AND THE CURRENT VERSION OF THE FIELD MANUAL.
13. DRIVEWAY ACCESS ALONG CR 162 SHALL BE MAINTAINED AT ALL TIMES.

SIGNING:

1. ALL TEMPORARY SIGNS ARE REQUIRED TO BE CRASHWORTHY PER THE AASHTO MANUAL FOR ASSESSING SAFETY HARDWARE 2016 (MASH-2016). THE MINNESOTA TYPE "C" AND "D" BRACED LEG U-CHANNEL (KNEE BRACE) SIGN SUPPORT IS NOT ALLOWED.
2. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THE FINAL SIGNS TO ASSURE THAT THE FINAL SIGNS ARE PLACED AS NEEDED, OR PROVIDE TEMPORARY SIGNING UNTIL THE FINAL SIGNING IS PLACED.
3. WHEN MULTIPLE GROUND MOUNTED SIGN STRUCTURES ARE PLACED ADJACENT TO EACH OTHER THERE SHOULD BE NO MORE THAN 2 POSTS WITHIN 84" OF EACH OTHER. WHEN THIS SPACING CAN NOT BE MAINTAINED, THEN SIGN STRUCTURES SHALL BE OFFSET, AND STAGGERED WITH A MINIMUM OF BETWEEN SIGN STRUCTURES.
4. WHEN A SIGN OR BARRICADE IS ORIENTED SUCH THAT VISIBILITY TO ROAD USERS INCLUDING BIKES AND PEDESTRIANS IS REDUCED ENOUGH TO CAUSE A HAZARD, DELINEATE THE SIGN/BARRICADE WITH APPROPRIATE DEVICES.
5. TEMPORARY SIGNS SHALL BE PLACED SUCH THAT OBSTACLES DO NOT BLOCK THEM FROM BEING VIEWED BY APPROACHING ROAD USERS. OBSTACLES MAY INCLUDE, BUT ARE NOT LIMITED TO, LIGHT POLES, TREES, SIGNS, AND BUILDINGS.
6. TEMPORARY SIGNS SHALL BE PLACED AND ORIENTED APPROXIMATELY AS SHOWN IN THE PLAN, AT RIGHT ANGLES TO DIRECTION OF AND FACING THE TRAFFIC THEY ARE INTENDED TO SERVE, UNLESS OTHERWISE SPECIFIED.
7. LONGITUDINAL DROPOFFS SHALL BE SIGNED AS SHOWN IN THE "MINNESOTA TEMPORARY TRAFFIC CONTROL FIELD MANUAL" PAGES (6K-aj) THRU (6K-al) UNLESS OTHERWISE SPECIFIED IN THESE PLANS.
8. AFTER REMOVAL OF SIGN AND/OR SIGN BASE, BACK FILL, COMPACT, AND LEVEL SOIL TO MATCH SURROUNDING SOIL.

CONSTRUCTION STAGING

**CR 162:** INCLUDES THE FULL RECLAMATION OF CR 162 FROM NORTON ROAD TO THE DEAD END OF CR 162 AND THE CONSTRUCTION OF A SHARED USE PATH EXTENDING TO RIDGEVIEW ROAD. ROAD CLOSURE SHALL BE POSTED AND TRAFFIC CONTROL SHALL APPLY DURING CONSTRUCTION ACTIVITIES.

| DEAD END CR 162 TRAFFIC CONTROL SUMMARY                                                                                                |                                                                                                      |
|----------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| WORK TYPE/OPERATION                                                                                                                    | MINIMUM REQUIRED TRAFFIC CONTROL                                                                     |
| <div>- DEMOLITION/ REMOVAL ACTIVITIES</div> <div>- FULL DEPTH RECLAMATION AND BACKFILL ACTIVITIES</div> <div>- PAVING OPERATIONS</div> | <div>- WORK PERFORMED USING ROAD CLOSURE. RESIDENTIAL ACCESS SHALL BE MAINTAINED AT ALL TIMES.</div> |

TRAFFIC CONTROL DEVICES & SYMBOLS LEGEND

SYMBOL DESCRIPTION



AREA CLOSED TO TRAFFIC / WORK AREA



TRAFFIC CONTROL SIGN



TYPE III BARRICADE = 

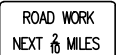


DRUM-LIKE CHANNELIZER (TYPE B) = 

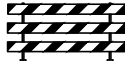


PORTABLE CHANGEABLE MESSAGE SIGN

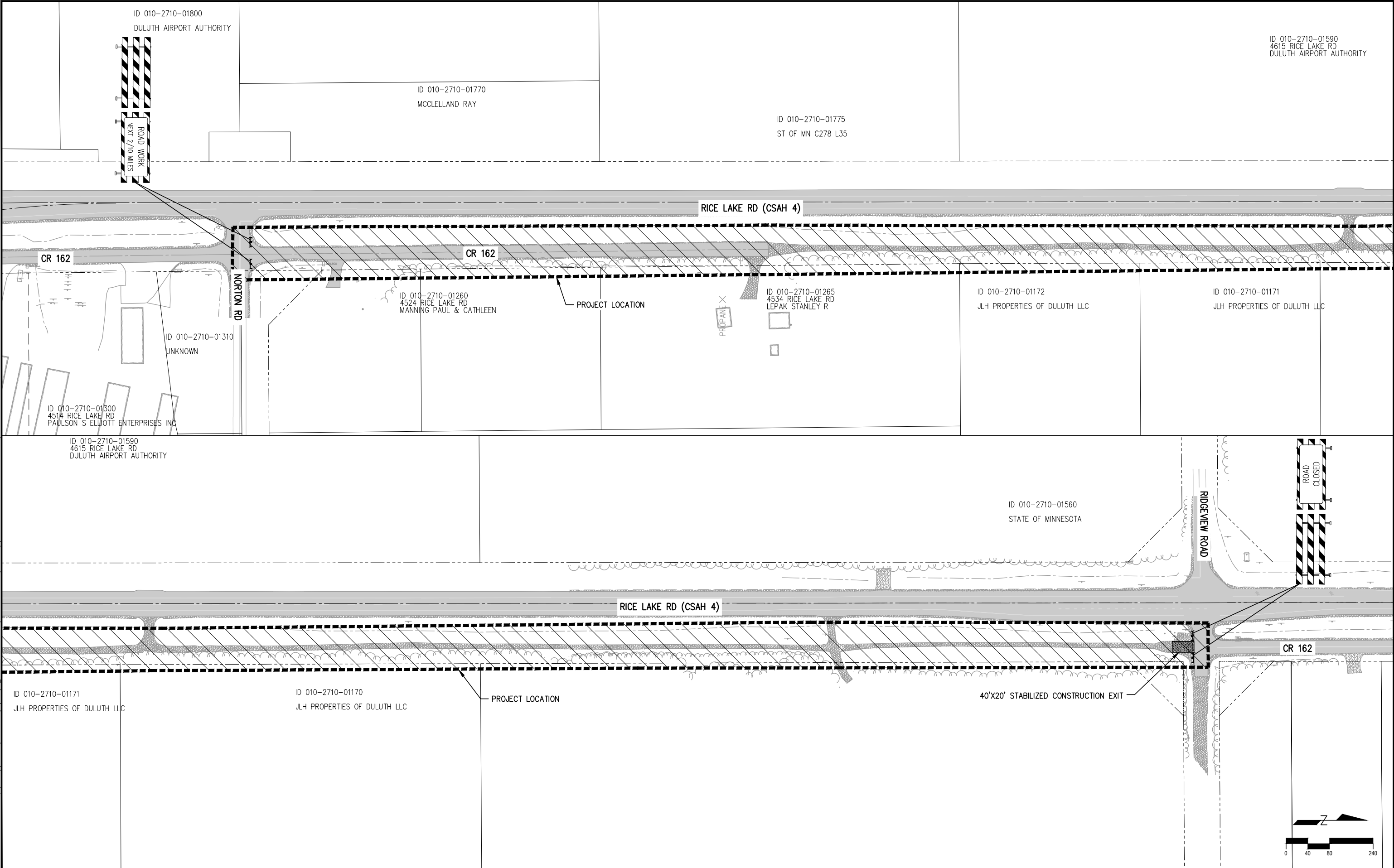
BARRICADE MOUNTED SIGNS

| SIGN                                                                                | SIGN NO. | COLOR           | SIZE (W x H) INCHES |
|-------------------------------------------------------------------------------------|----------|-----------------|---------------------|
|  | R11-2M   | BLACK ON WHITE  | 48X30               |
|  | G20-1    | BLACK ON ORANGE | 60X24               |

DEVICES

| SIGN                                                                                | SIGN NO. | COLOR           | SIZE    |
|-------------------------------------------------------------------------------------|----------|-----------------|---------|
|  | TYPE III | BLACK ON ORANGE | 8' LONG |

|          |      |                      |          |                                                                                                                                                                                                                                                                                                        |                                                                                       |                                                 |                                       |                                           |                                                                |
|----------|------|----------------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------------------------------------------------|---------------------------------------|-------------------------------------------|----------------------------------------------------------------|
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| REV. NO. | DATE | REVISION DESCRIPTION | APPROVED |                                                                                                                                                                                                                                                                                                        |                                                                                       |                                                 |                                       |                                           |                                                                |



|          |      |                      |          |                                                                                                                                                                                                                                                                                                                   |                                                                                       |                               |            |                                           |                                   |
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| REV. NO. | DATE | REVISION DESCRIPTION | APPROVED | SP 069-604-086                                                                                                                                                                                                                                                                                                    |                                                                                       | DES: _____                    | CHK: _____ |                                           |                                   |

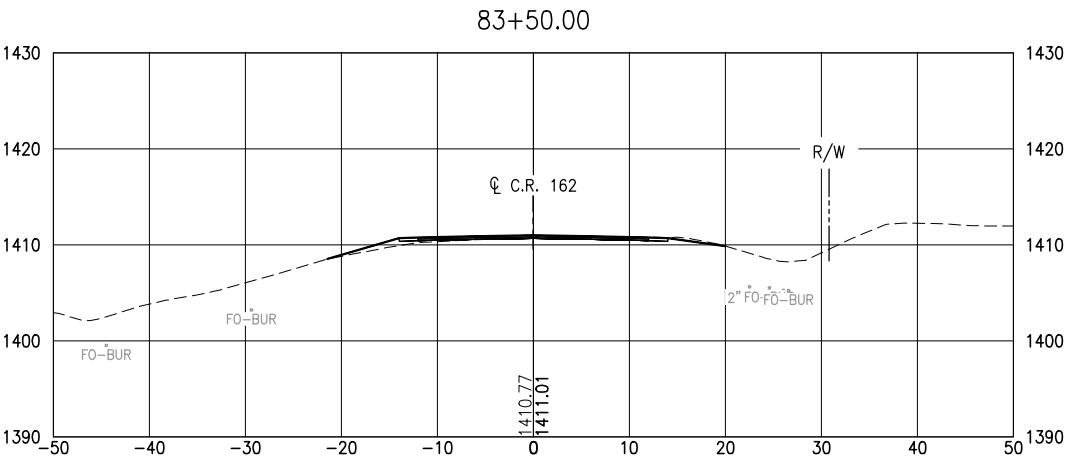
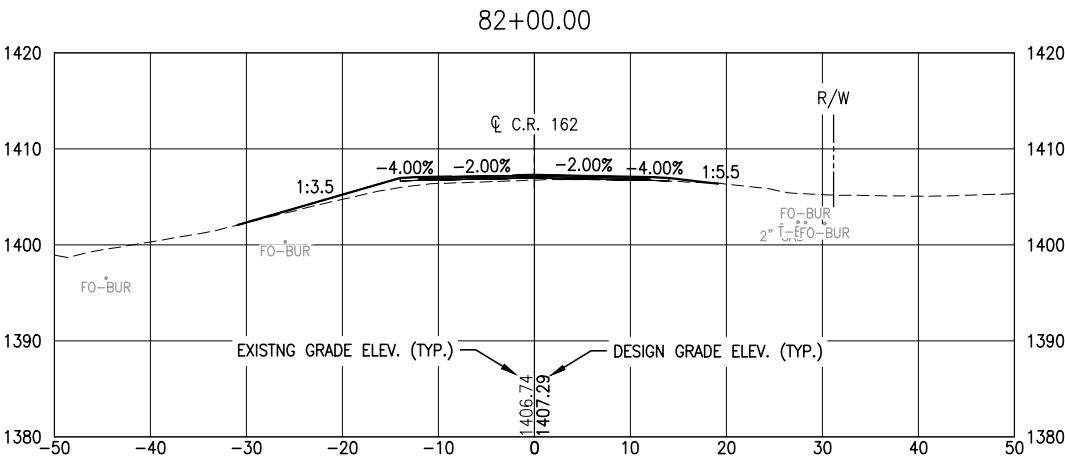
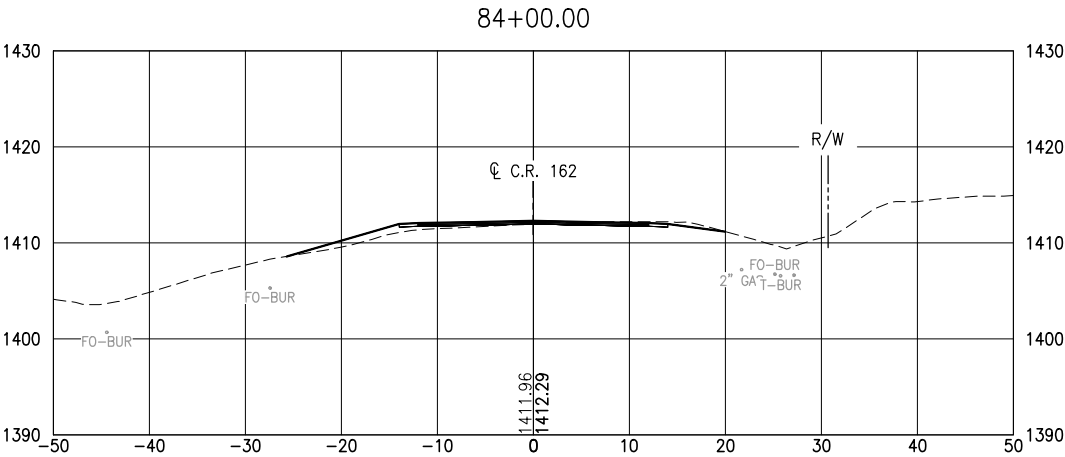
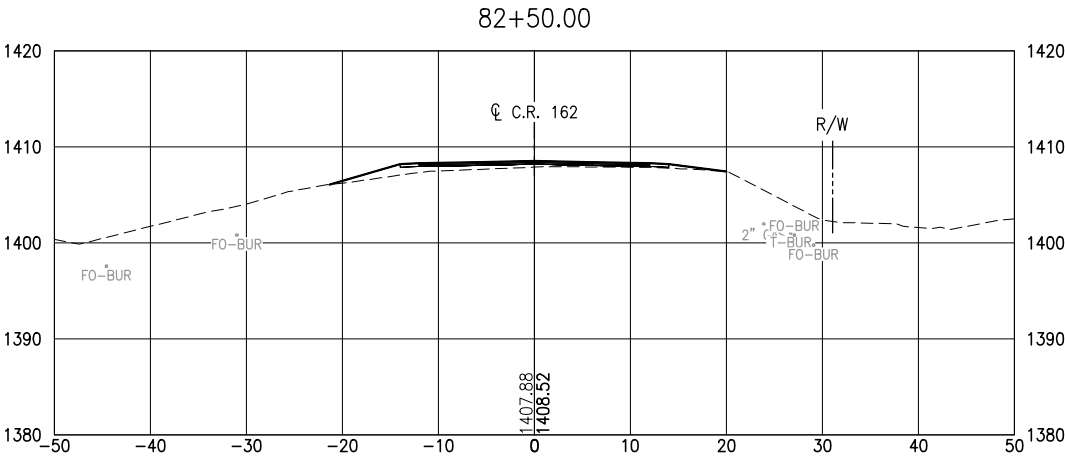
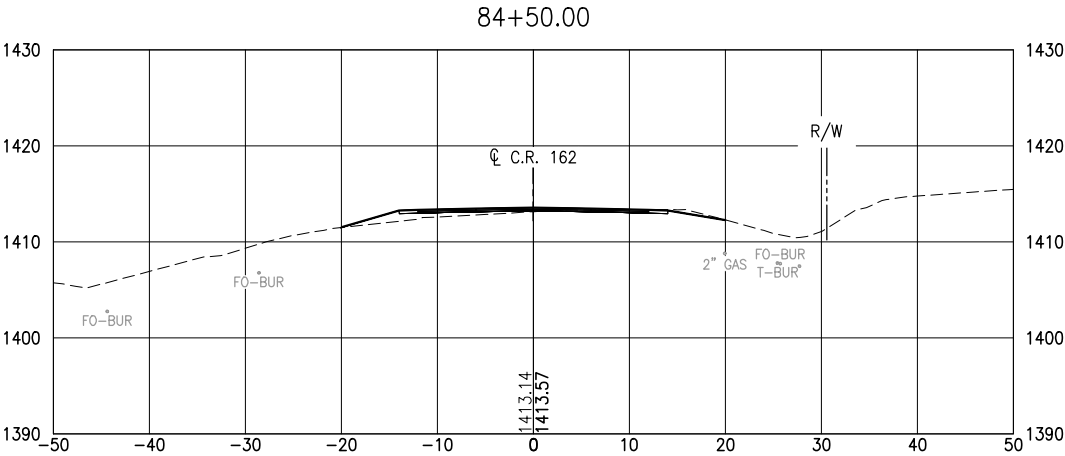
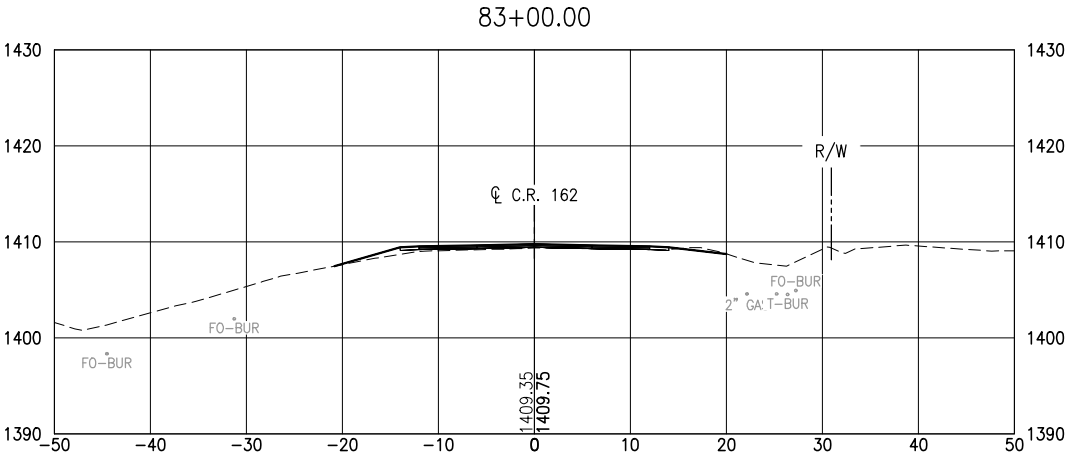
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 LHB PROJECT NO. 240652



| REV. NO. | DATE | REVISION DESCRIPTION | APPROVED |
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ST LOUIS COUNTY CP0004-490685

SP 069-604-086

DR:  
DES:  
CHK:

PROJECT:

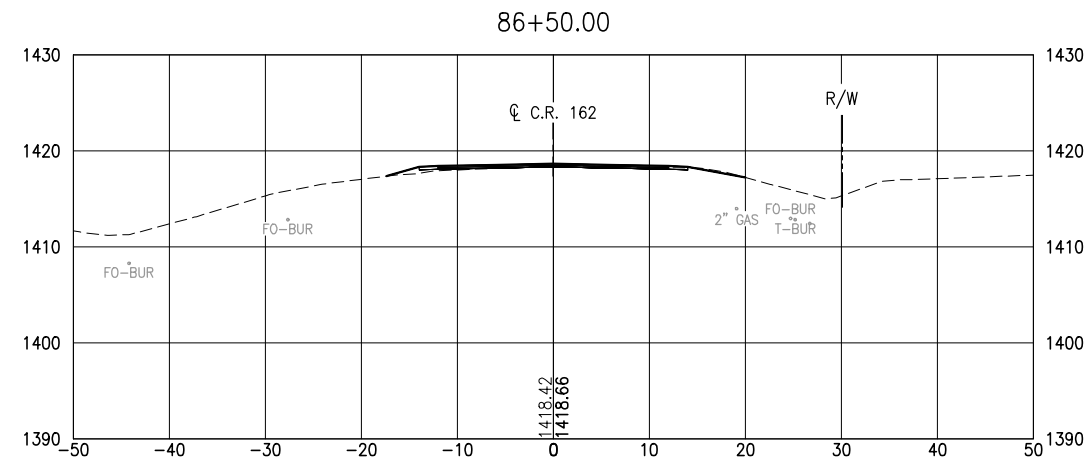
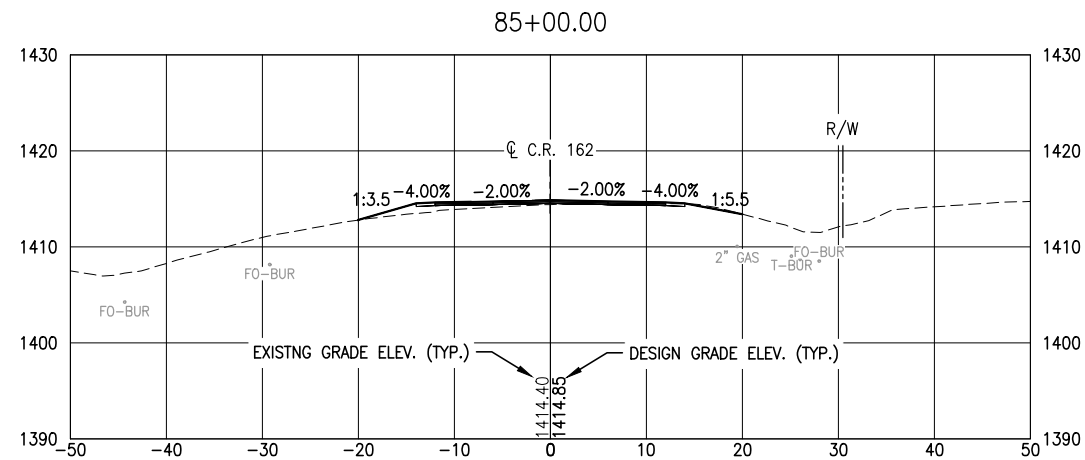
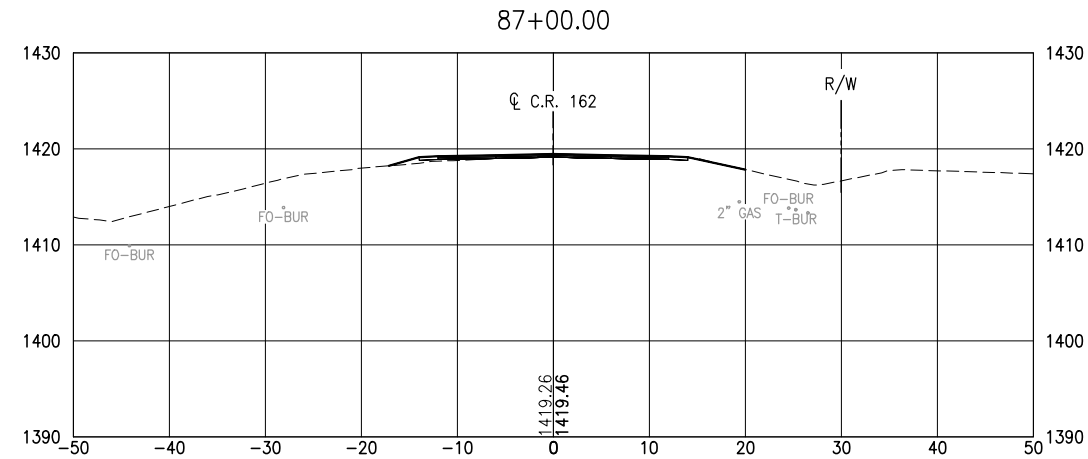
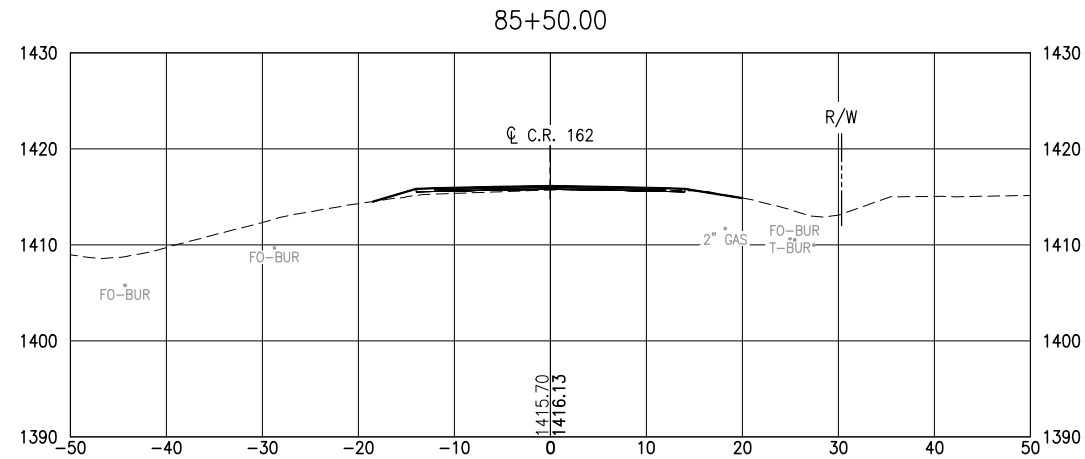
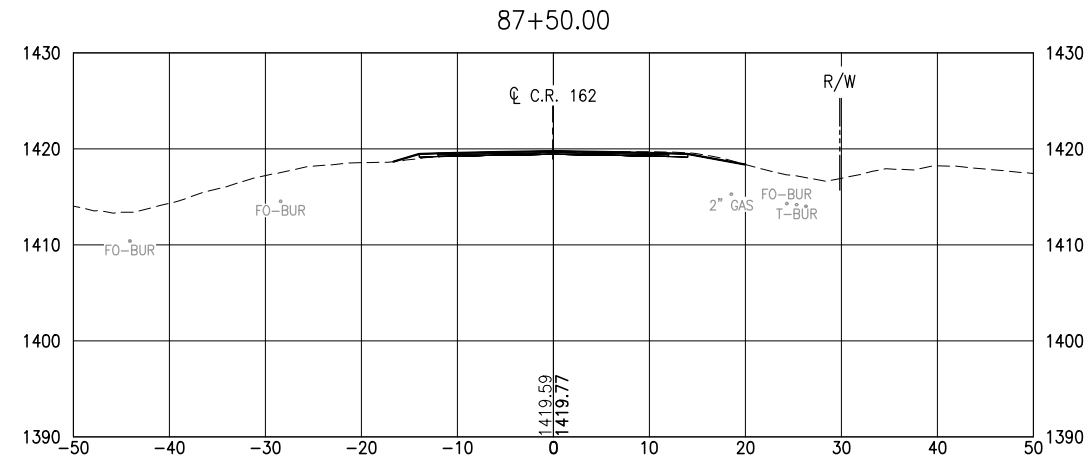
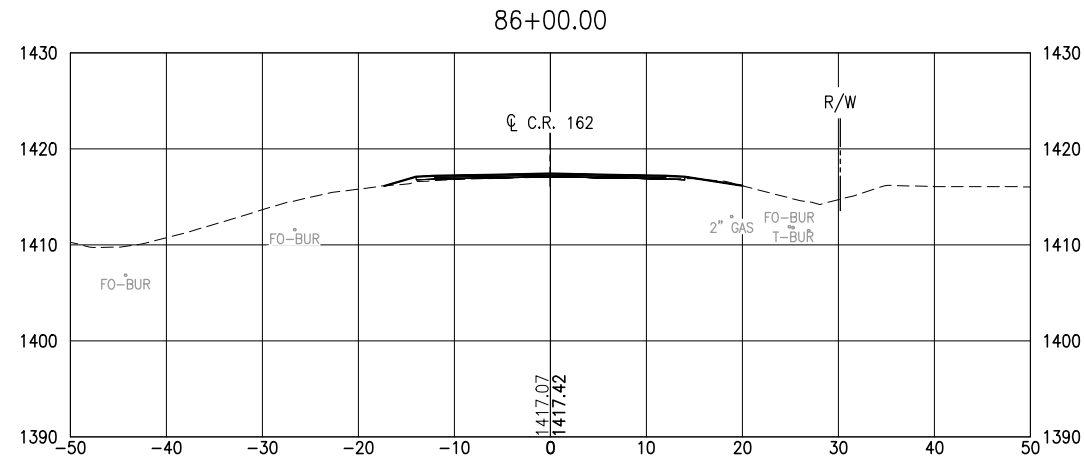
RICE LAKE ROAD -  
SHARED USE PATH

SHEET TITLE:

CROSS SECTIONS - CR 162  
SHEET NO. 43 OF 55 SHEETS



PLOT DATE: 6/30/2026 12:18:05 PM FILE: Q:\24Pro\240652\500 Drawings\Civil\01 Shared Use Path - (Norton Rd to Ridgeview Rd)\240652 12.0 Cross Sections - Shared Use Path.dwg



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SIGNATURE: \_\_\_\_\_ DATE: \_\_/\_\_/2026



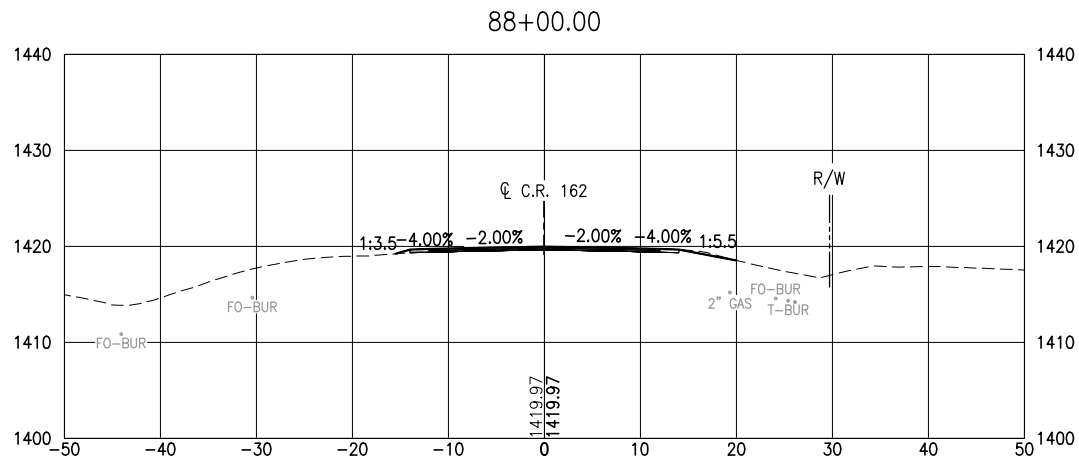
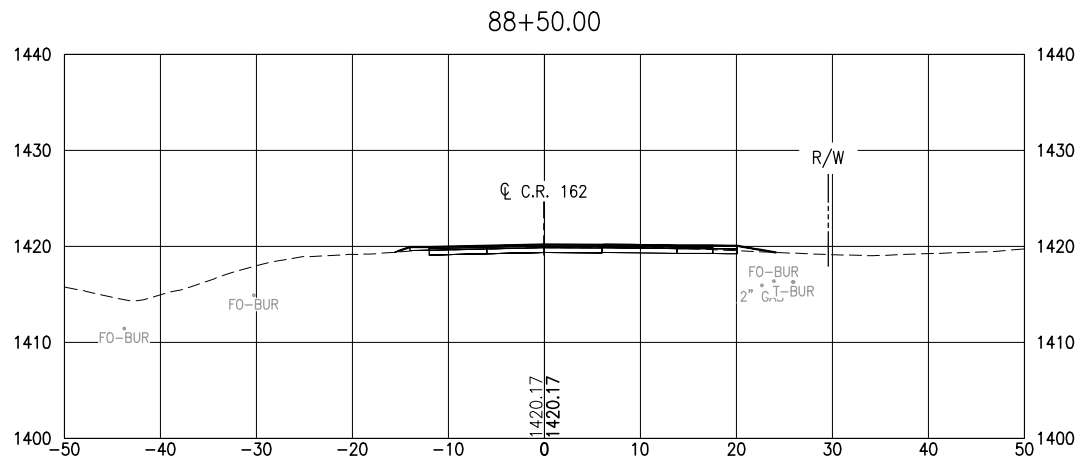
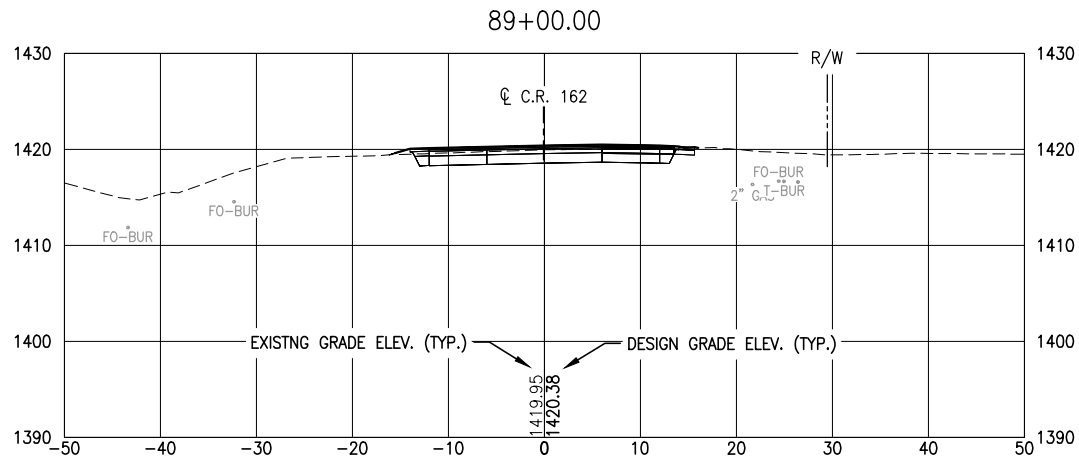
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SP 069-604-086

DR: \_\_\_\_\_  
DES: \_\_\_\_\_  
CHK: \_\_\_\_\_

PROJECT:  
RICE LAKE ROAD -  
SHARED USE PATH

SHEET TITLE:  
CROSS SECTIONS - CR 162  
SHEET NO. 44 OF 55 SHEETS

PLOT DATE: 6/30/2026 12:18:05 PM FILE: Q:\24Pro\240652\500 Drawings\Civil\01 Shared Use Path - (Norton Rd to Ridgeview Rd)\240652 12.0 Cross Sections - Shared Use Path.dwg



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ST LOUIS COUNTY CP0004-490685

SP 069-604-086

DR: \_\_\_\_\_  
DES: \_\_\_\_\_  
CHK: \_\_\_\_\_

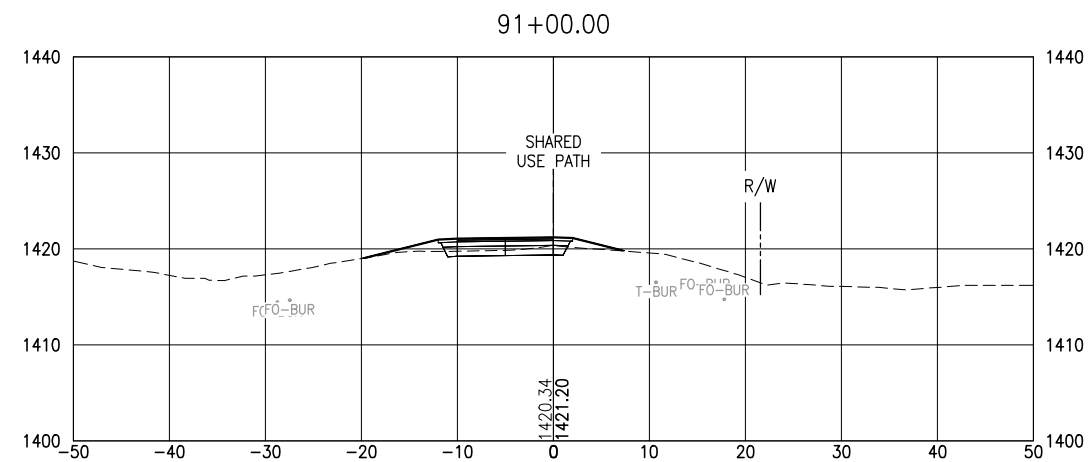
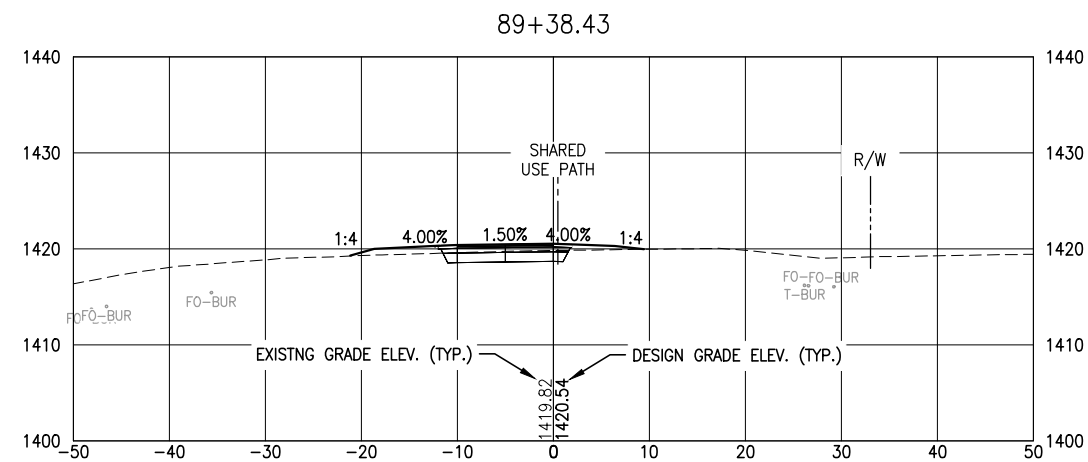
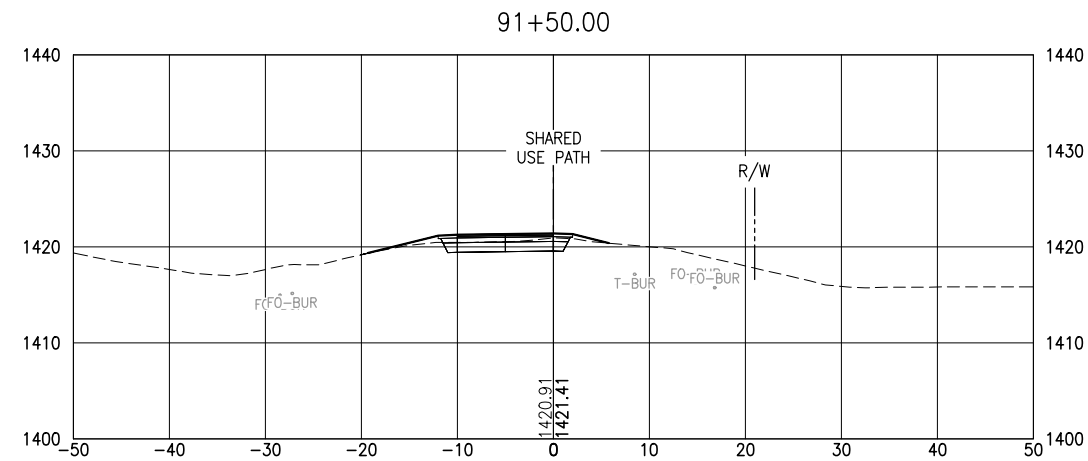
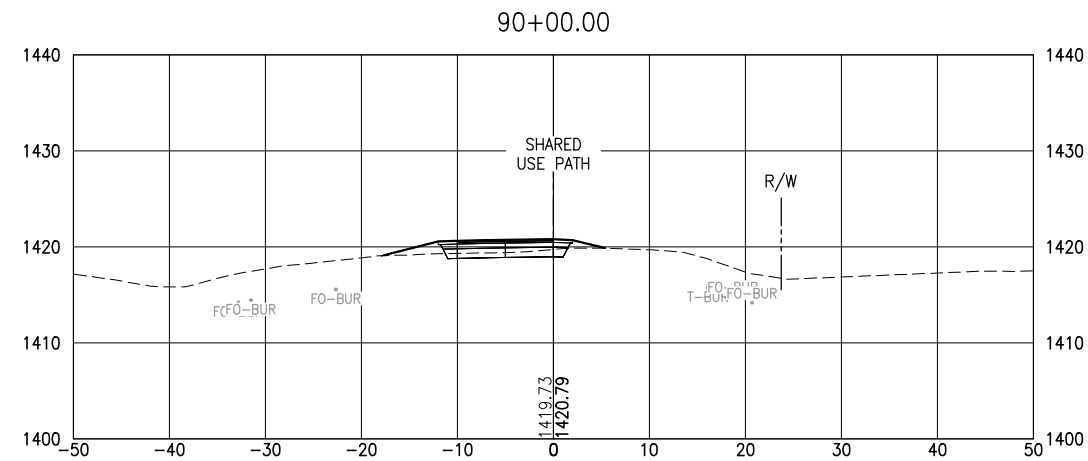
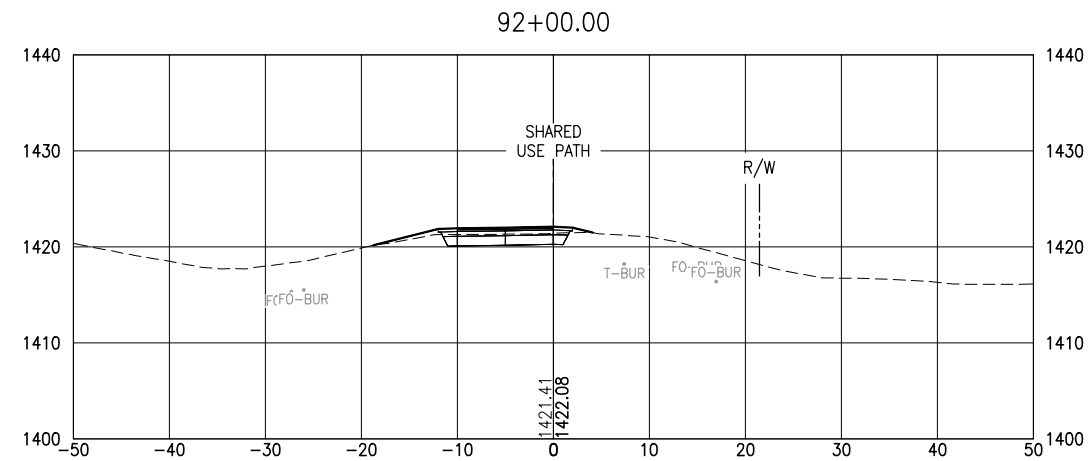
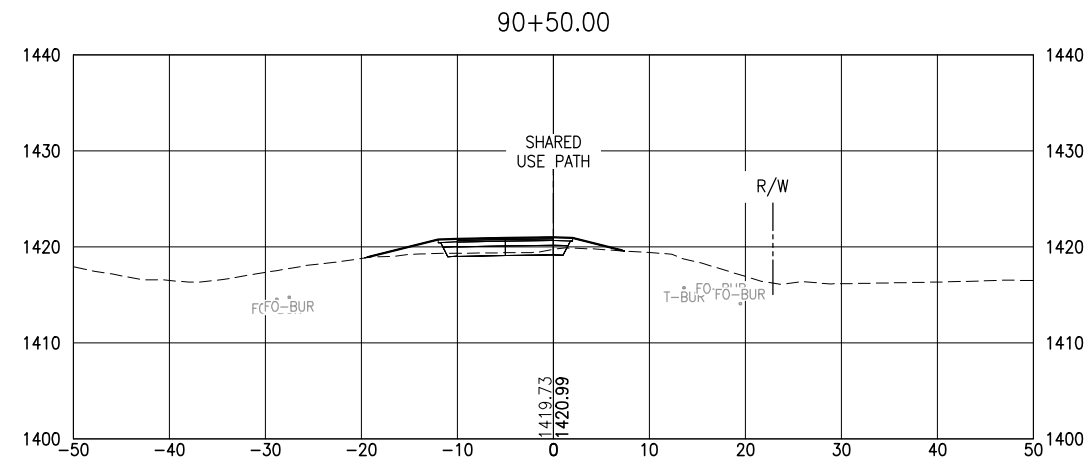
PROJECT:

RICE LAKE ROAD -  
SHARED USE PATH

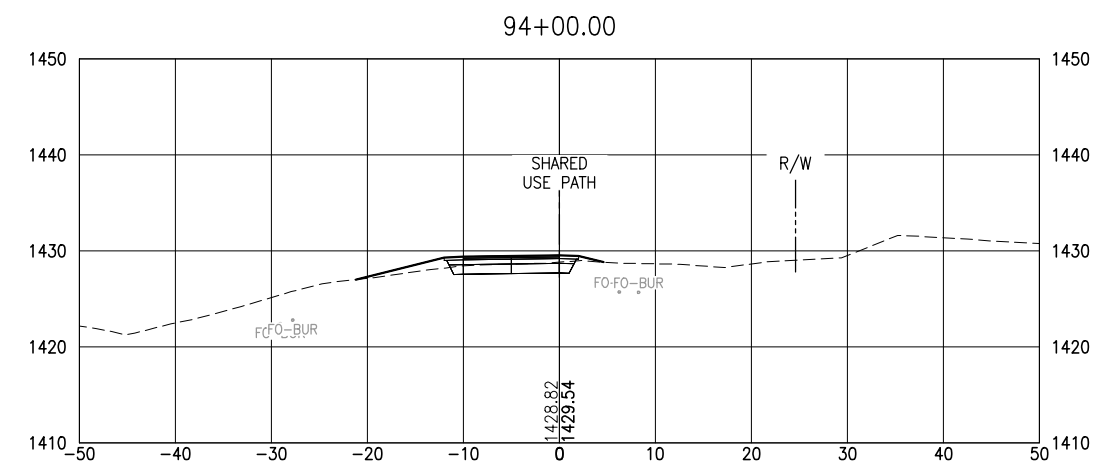
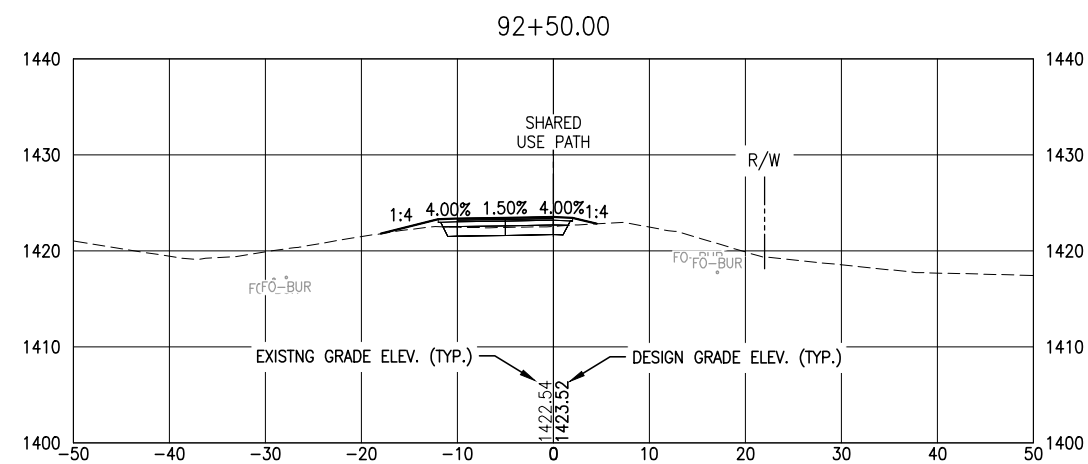
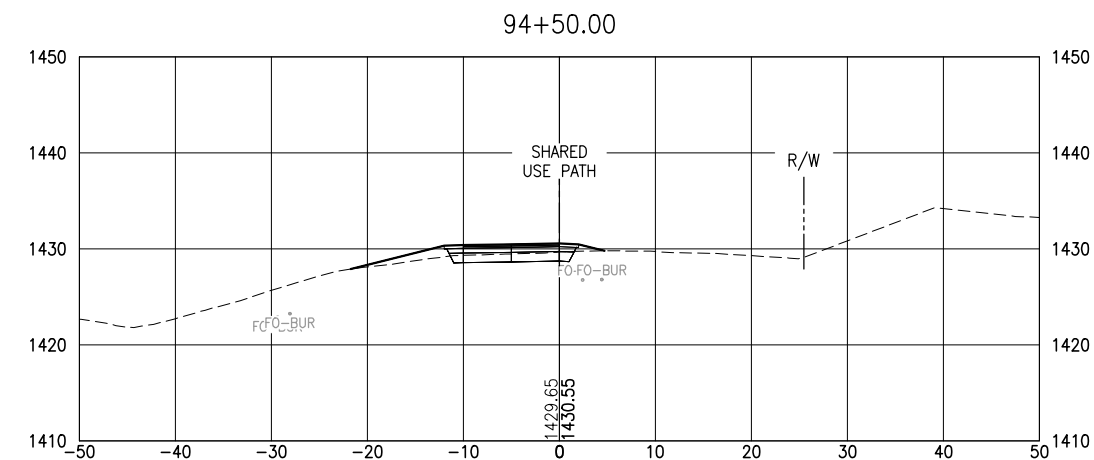
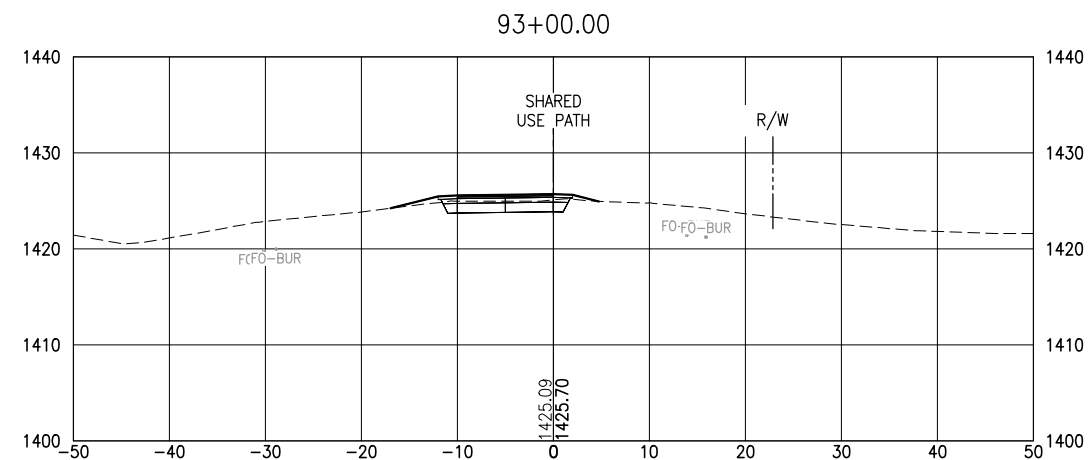
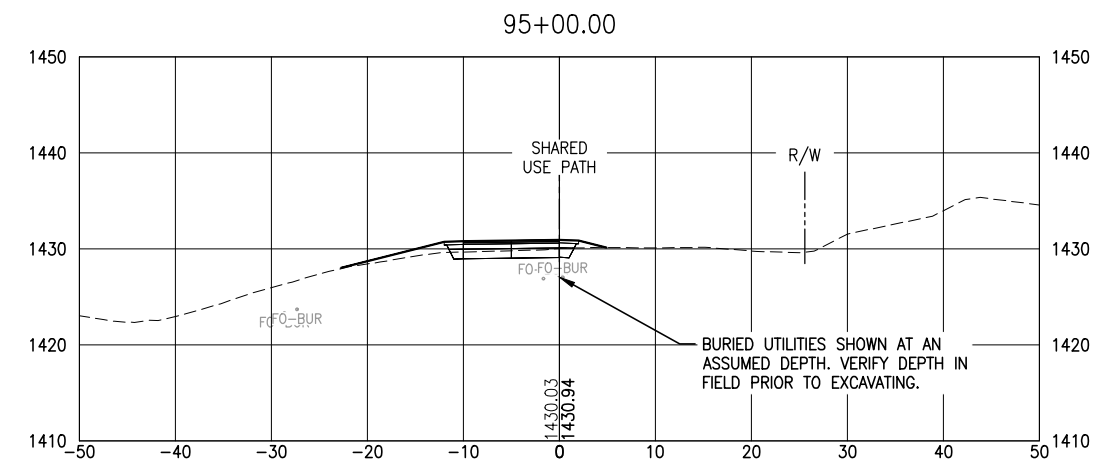
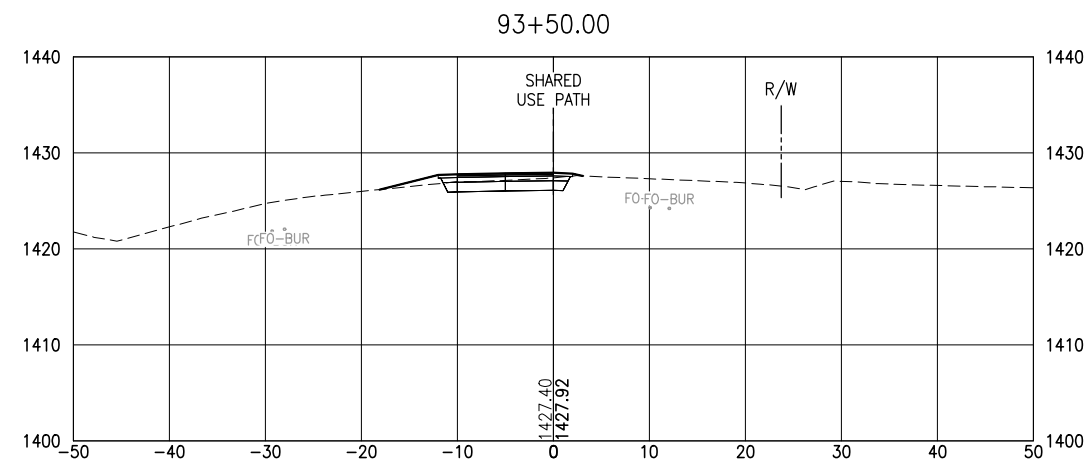
SHEET TITLE:

CROSS SECTIONS - CR 162  
SHEET NO. 45 OF 55 SHEETS

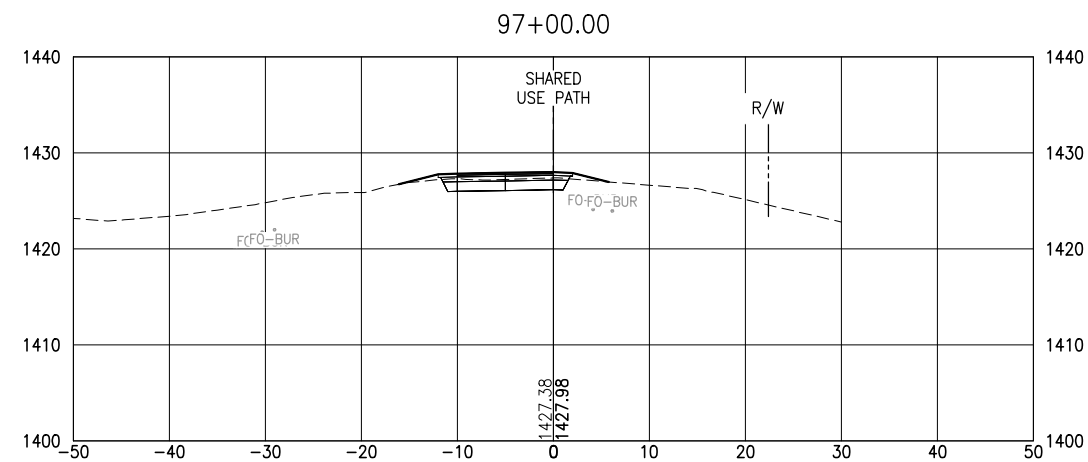
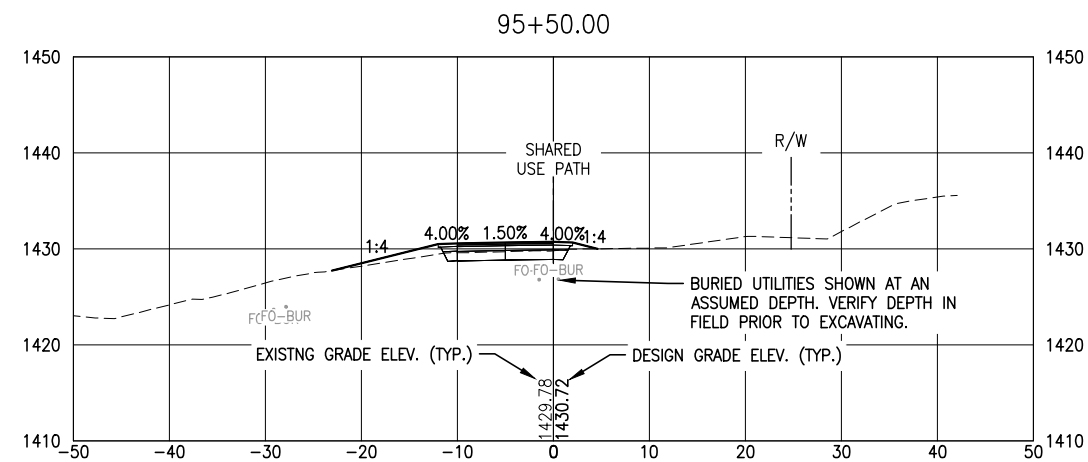
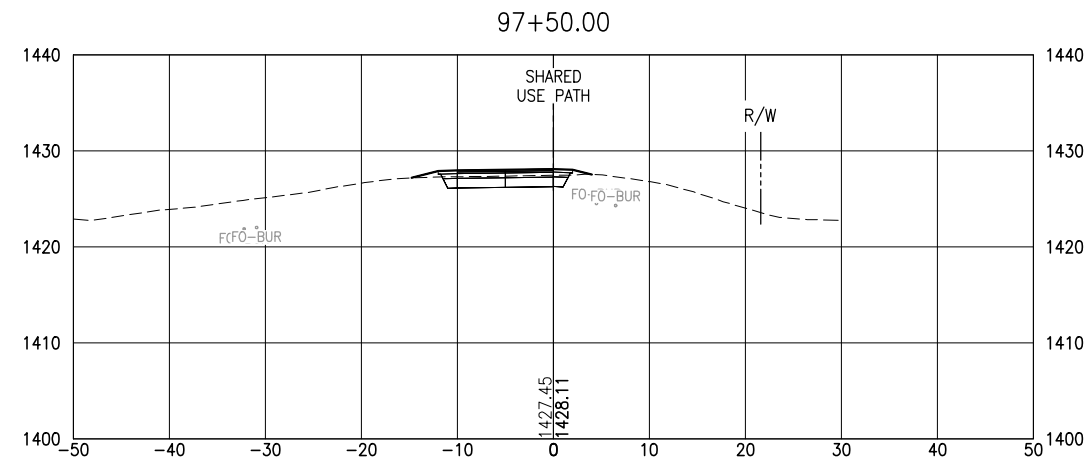
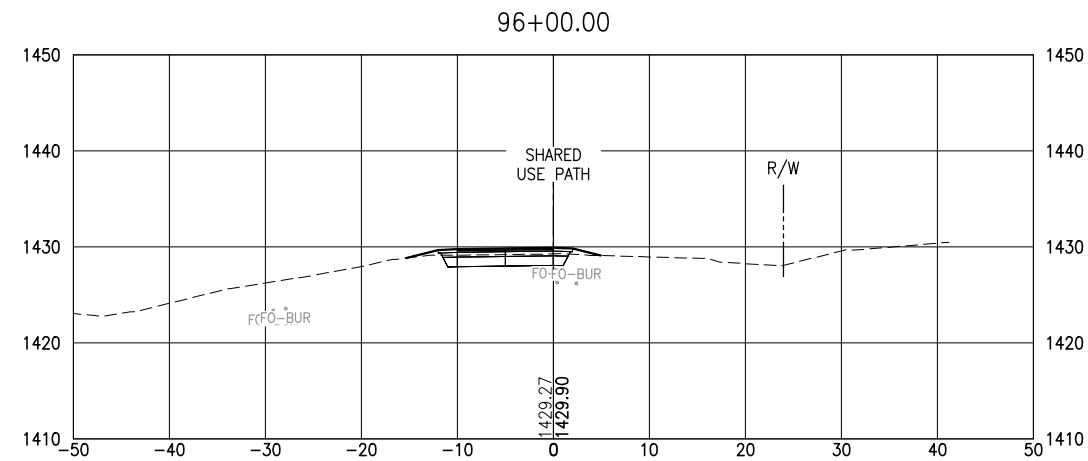
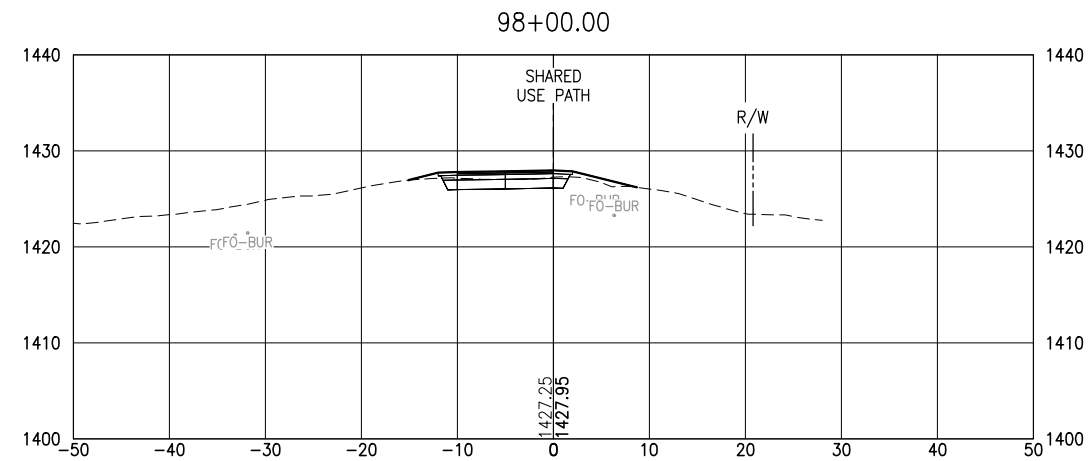
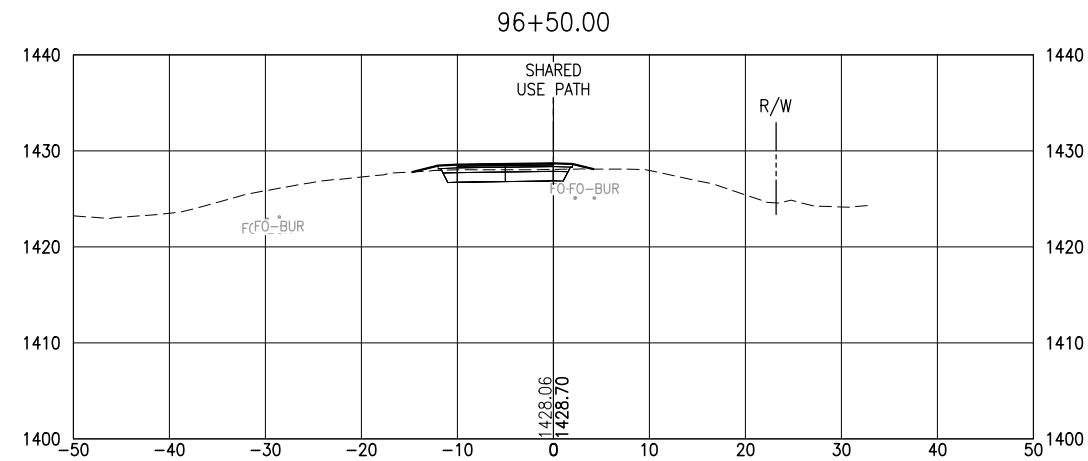
PLOT DATE: 6/30/2026 12:18:17 PM FILE: G:\24Pro\240652\500 Drawings\Civil\01\_Shared Use Path - (Norton Rd to Ridgeview Rd)\240652 12.0 Cross Sections - Shared Use Path.dwg



|          |      |                      |          |                                                                                                                                                                                                                                                                                             |  |                               |                          |                                           |                                                                            |
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| REV. NO. | DATE | REVISION DESCRIPTION | APPROVED |                                                                                                                                                                                                                                                                                             |  | SP 069-604-086                | DES: _____<br>CHK: _____ |                                           |                                                                            |



PLOT DATE: 6/30/2026 12:18:30 PM FILE: G:\24Pro\240652\500 Drawings\RA\240652 12.0 Cross Sections - Shared Use Path.dwg



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ST LOUIS COUNTY CP0004-490685

SP 069-604-086

DR: \_\_\_\_\_  
DES: \_\_\_\_\_  
CHK: \_\_\_\_\_

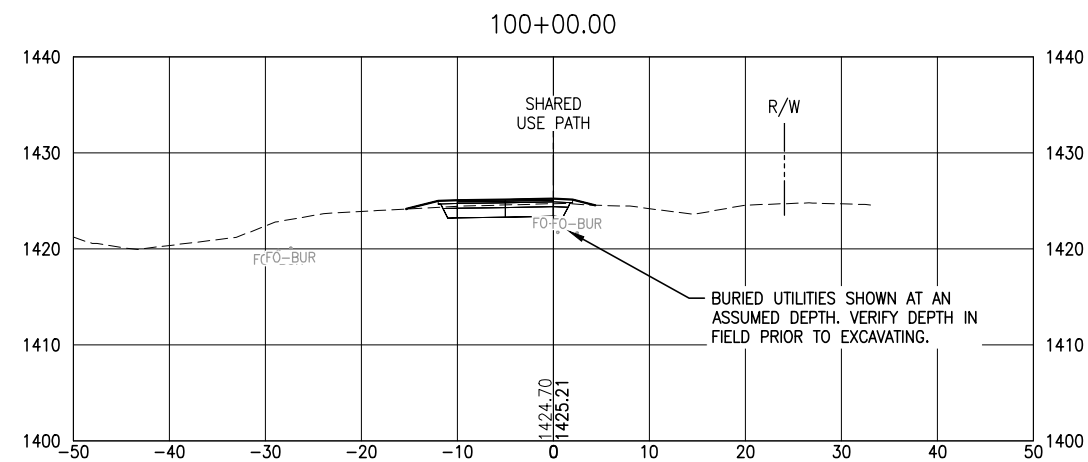
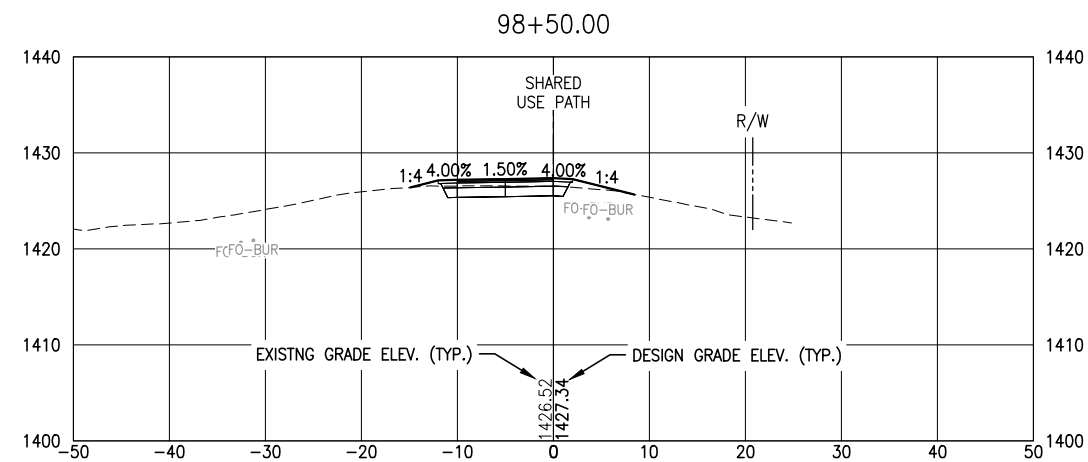
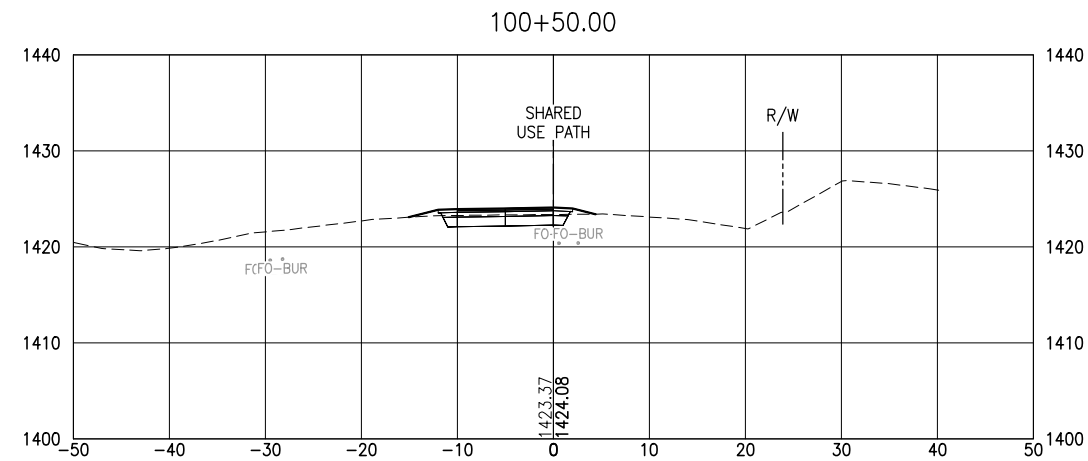
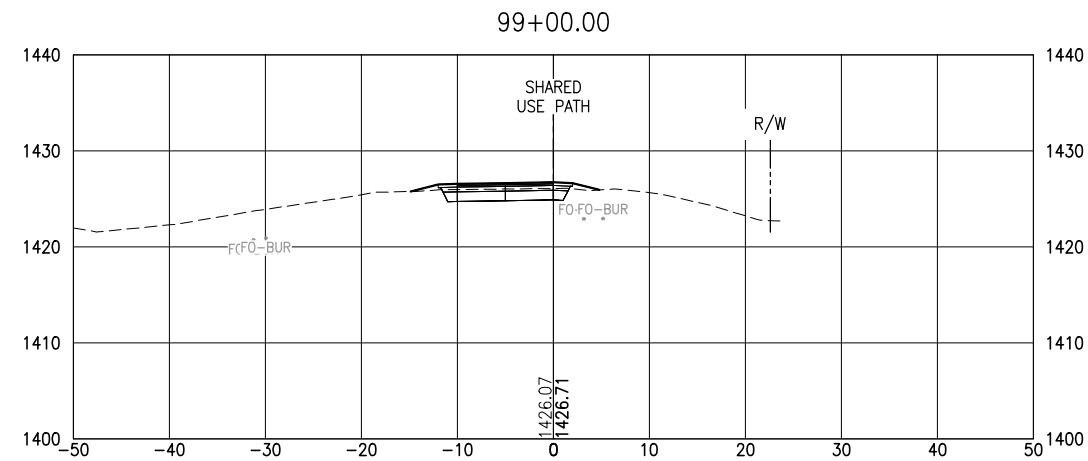
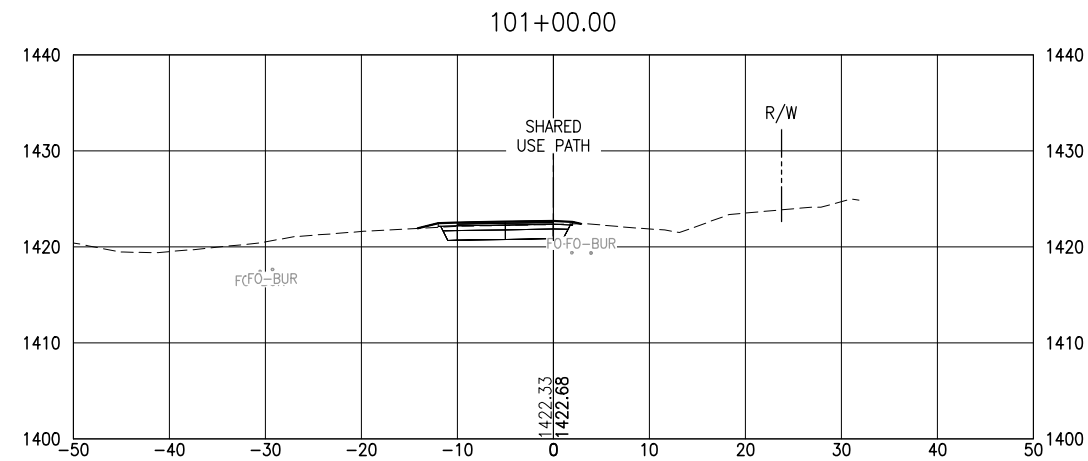
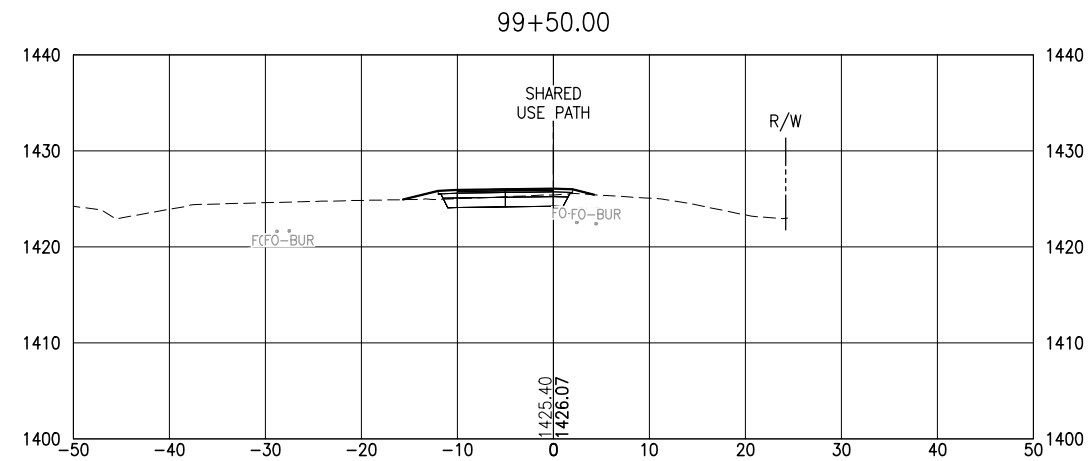
PROJECT:

RICE LAKE ROAD -  
SHARED USE PATH

SHEET TITLE:

CROSS SECTIONS - SHARED USE PATH  
SHEET NO. 48 OF 55 SHEETS

PLOT DATE: 6/30/2026 12:18:30 PM FILE: G:\24Pro\240652\500 Drawings\Civil\01 Shared Use Path - (Norton Rd to Ridgeview Rd)\240652 12.0 Cross Sections - Shared Use Path.dwg



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ST LOUIS COUNTY CP0004-490685

SP 069-604-086

DR:  
DES:  
CHK:

PROJECT:

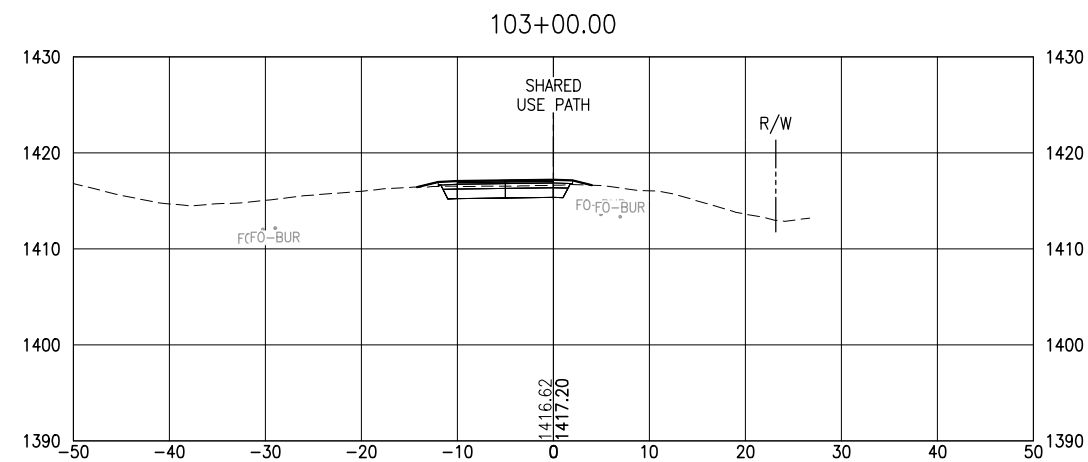
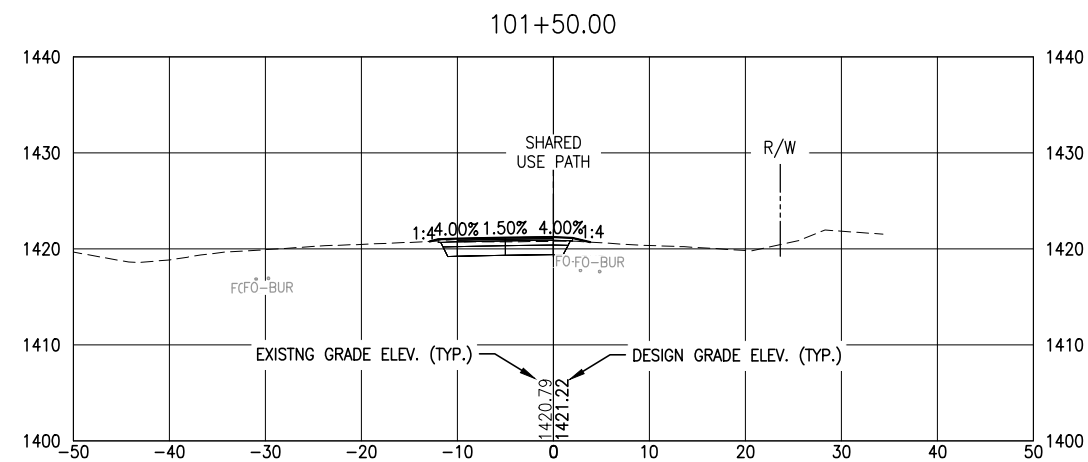
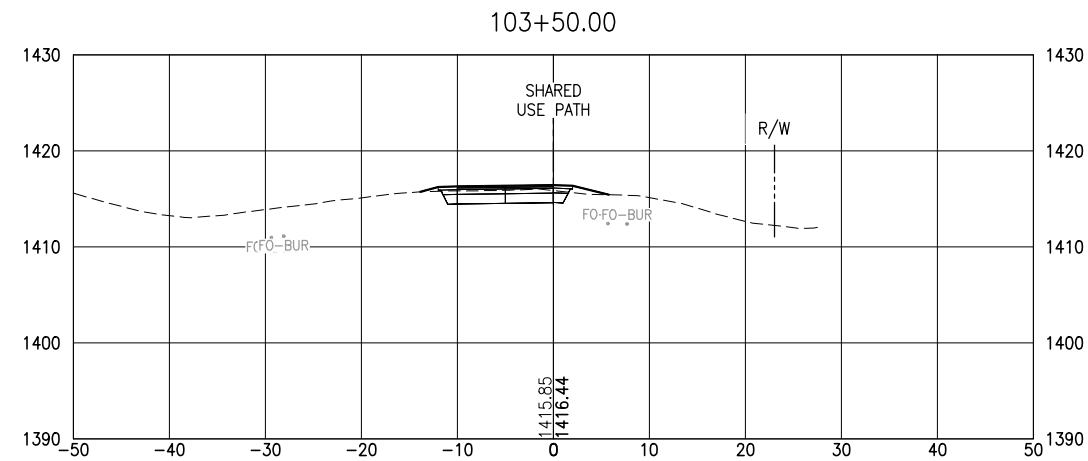
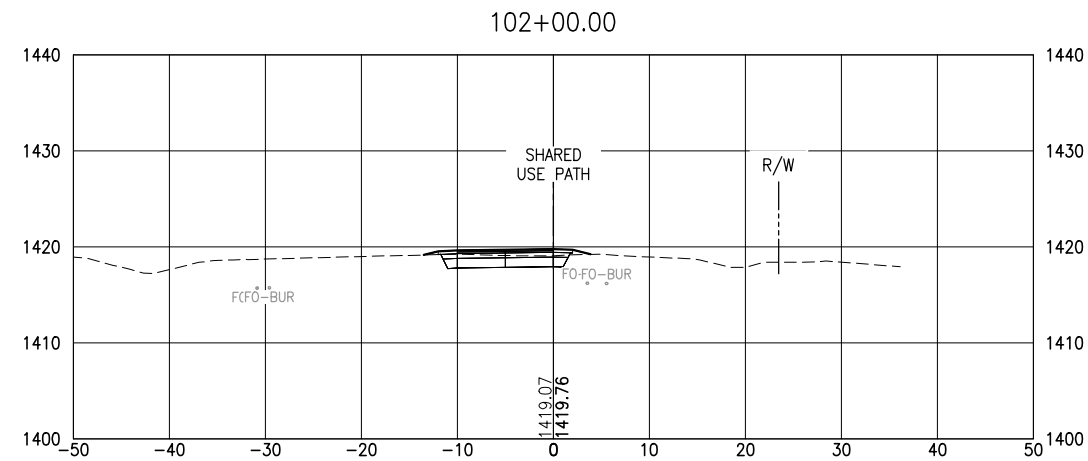
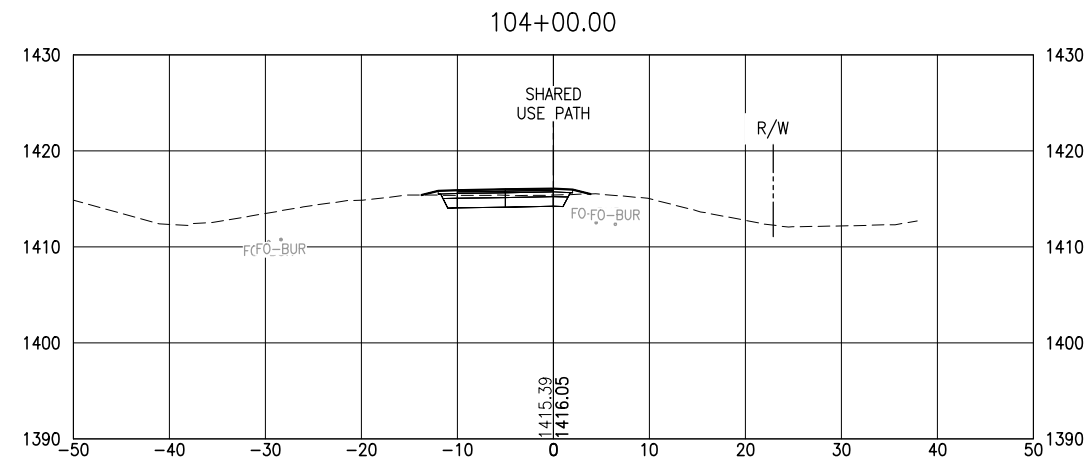
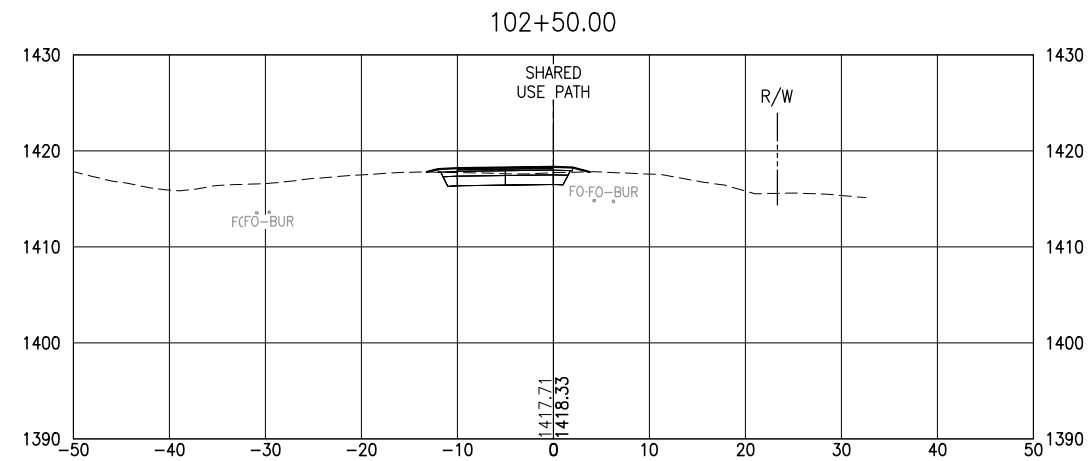
RICE LAKE ROAD -  
SHARED USE PATH

SHEET TITLE:

CROSS SECTIONS - SHARED USE PATH  
SHEET NO. 49 OF 55 SHEETS



Plot Date: 6/30/2026 12:18:41 PM File: G:\24Pro\240652\500 Drawings\Civil\01 Shared Use Path - (Norton Rd to Ridgeview Rd)\240652 12.0 Cross Sections - Shared Use Path.dwg



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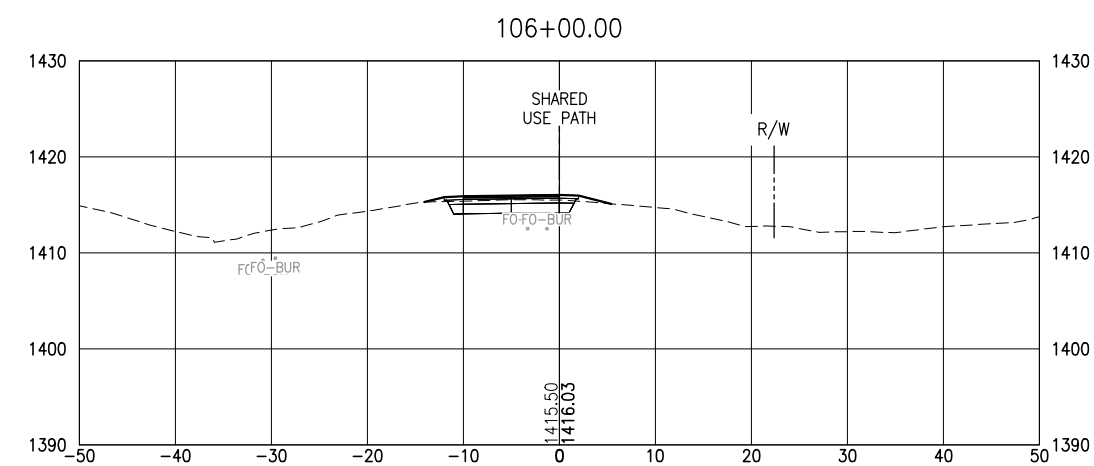
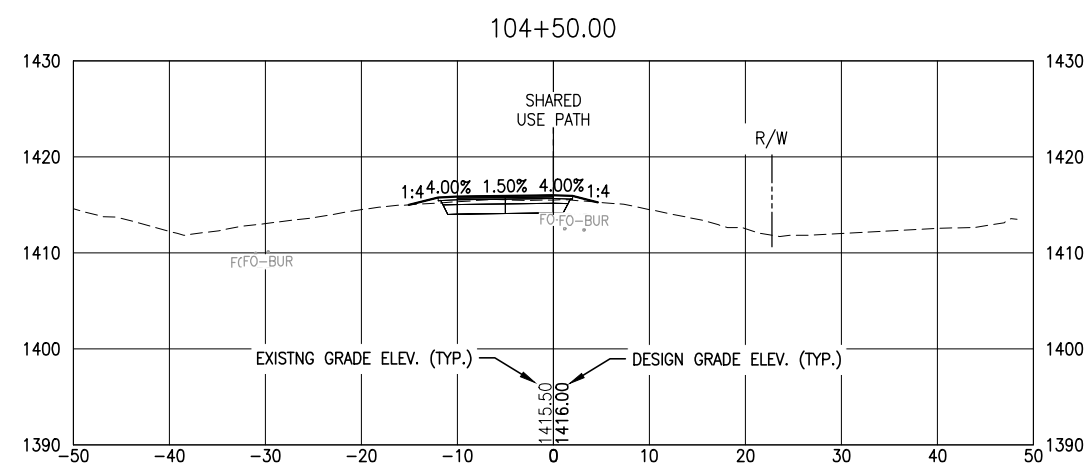
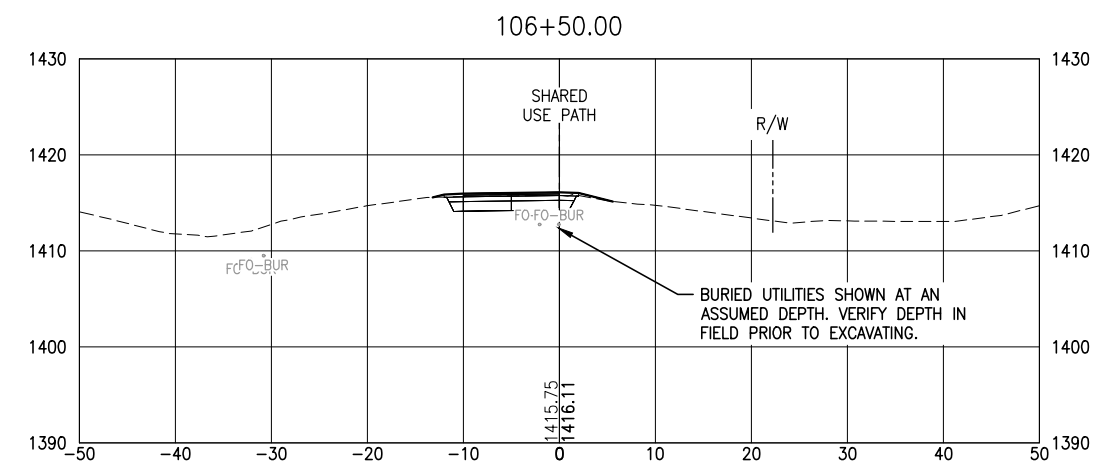
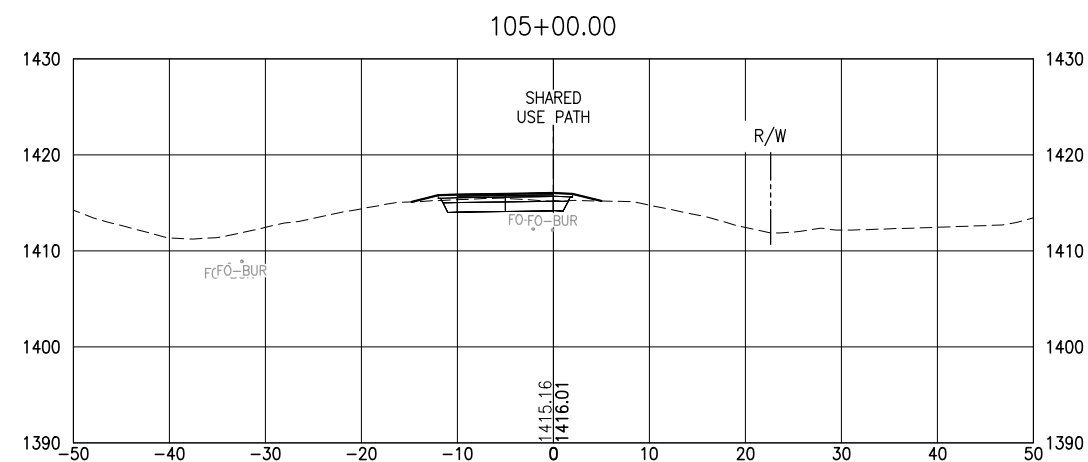
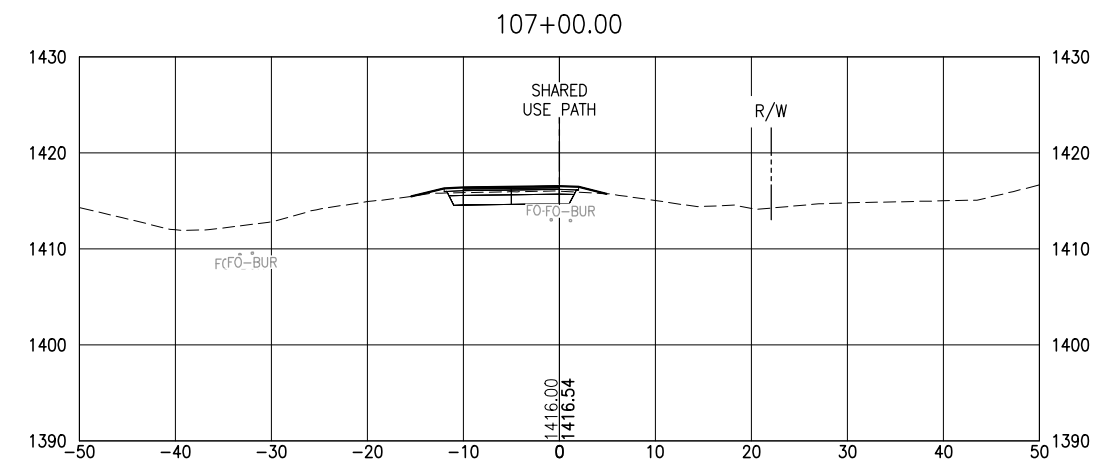
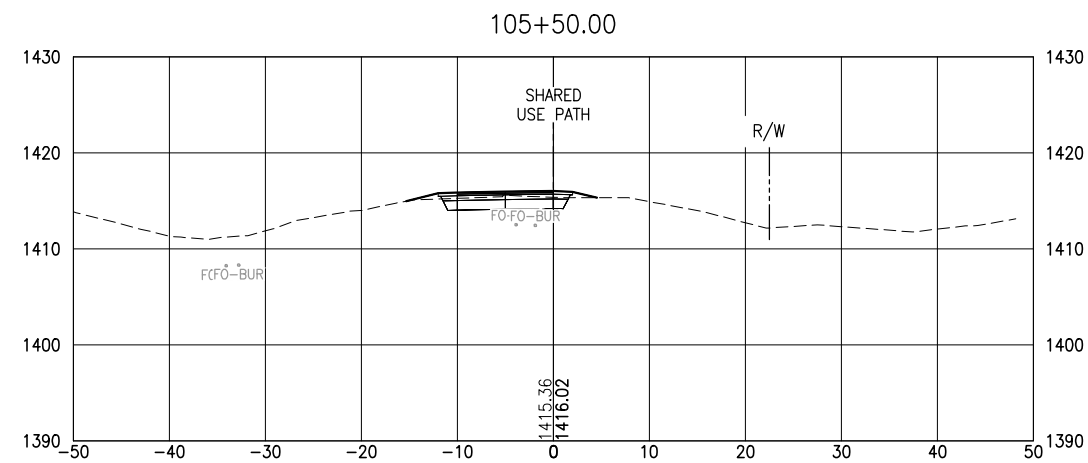


ST LOUIS COUNTY CP0004-490685  
SP 069-604-086

DR: \_\_\_\_\_  
DES: \_\_\_\_\_  
CHK: \_\_\_\_\_

PROJECT: RICE LAKE ROAD - SHARED USE PATH

SHEET TITLE: CROSS SECTIONS - SHARED USE PATH  
SHEET NO. 50 OF 55 SHEETS

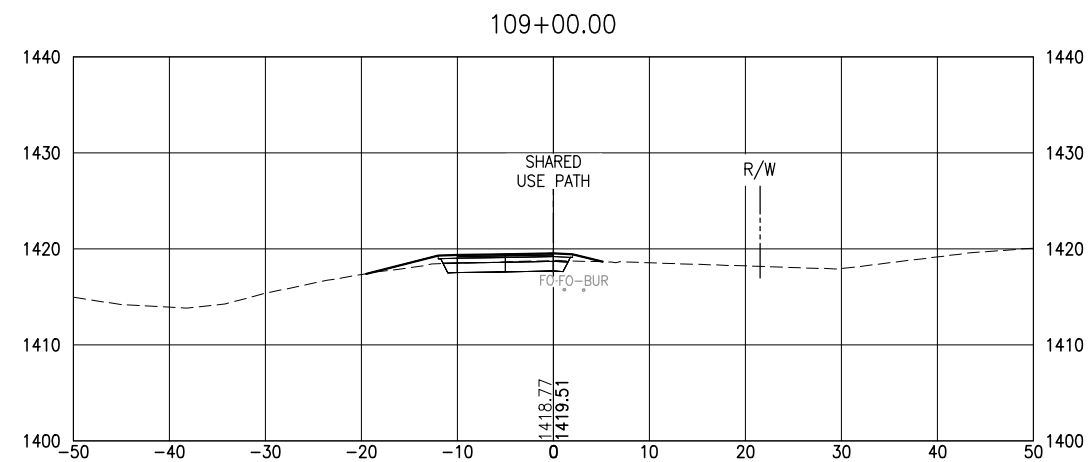
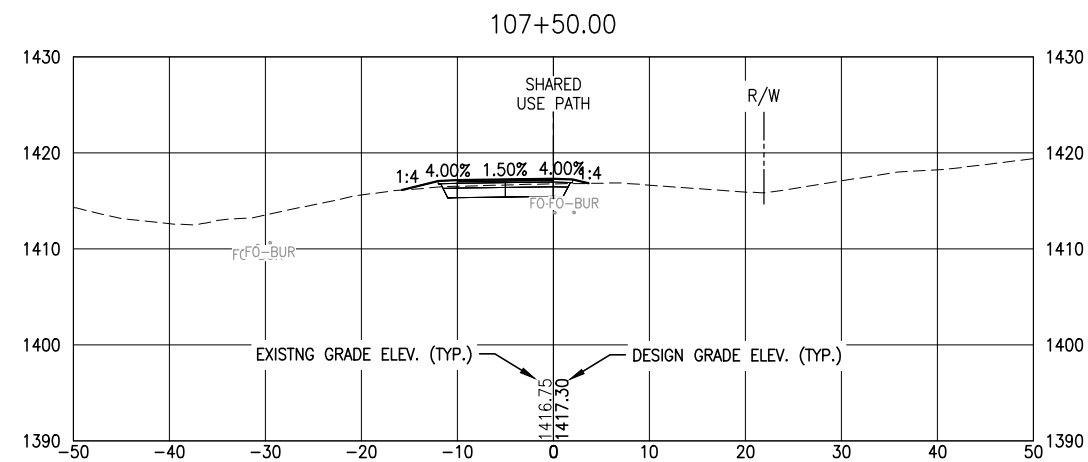
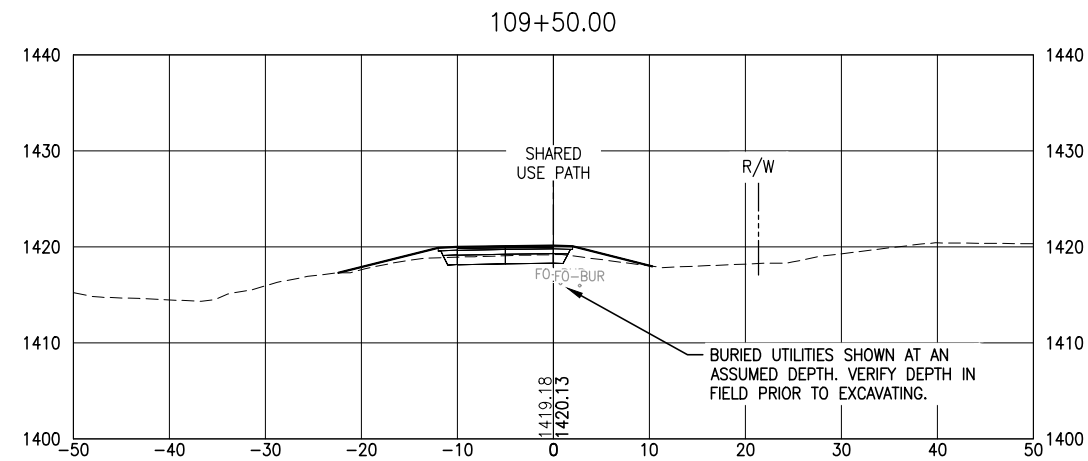
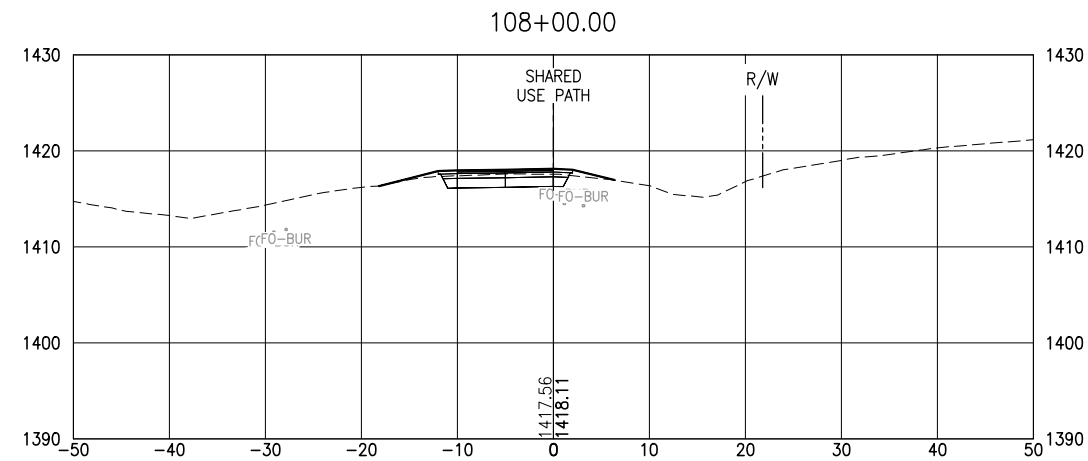
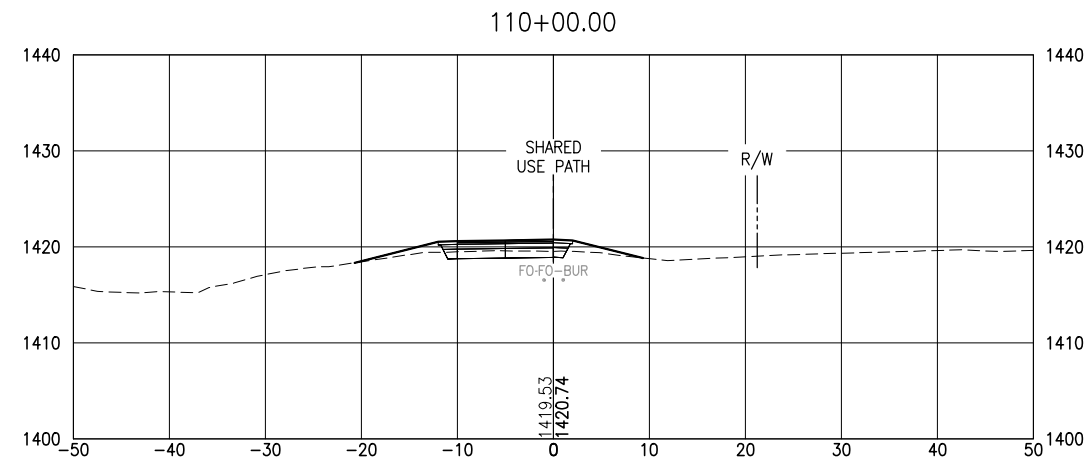
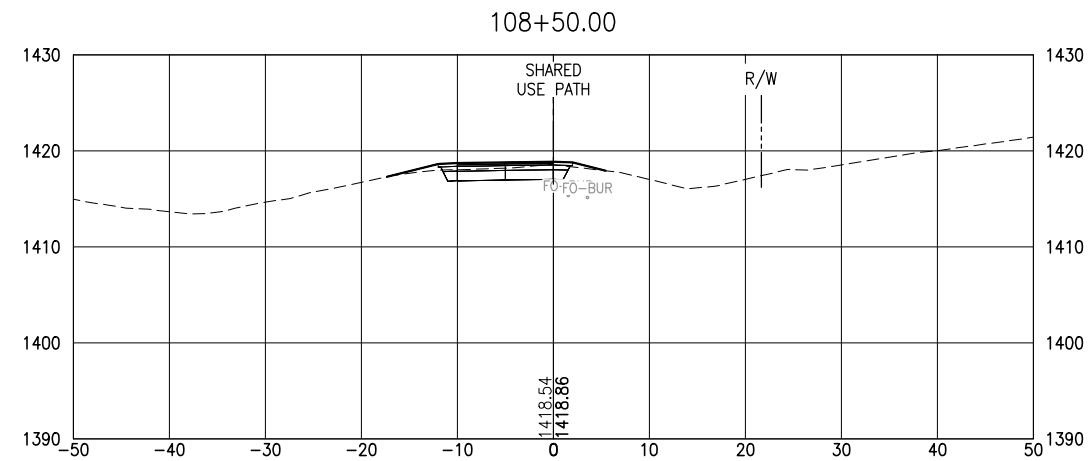


PLOT DATE: 6/30/2026 12:18:41 PM FILE: Q:\24Pro\240652\500 Drawings\Civil\01\_Shared Use Path - (Norton Rd to Ridgeway Rd)\240652 12.0 Cross Sections - Shared Use Path.dwg

|          |      |                      |          |                                                                                                                                                                                                                                                                                                                   |                                                                                       |                               |      |                                                  |                                                                                       |
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|          |      |                      |          |                                                                                                                                                                                                                                                                                                                   |                                                                                       |                               | DES: |                                                  |                                                                                       |
| REV. NO. | DATE | REVISION DESCRIPTION | APPROVED |                                                                                                                                                                                                                                                                                                                   |                                                                                       | SP 069-604-086                | CHK: |                                                  |                                                                                       |



PLOT DATE: 6/30/2026 12:18:53 PM FILE: Q:\24Pro\240652 500 Drawings\Civil\01 Shared Use Path - (Norton Rd to Ridgeview Rd)\240652 12.0 Cross Sections - Shared Use Path.dwg



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DES:  
CHK:

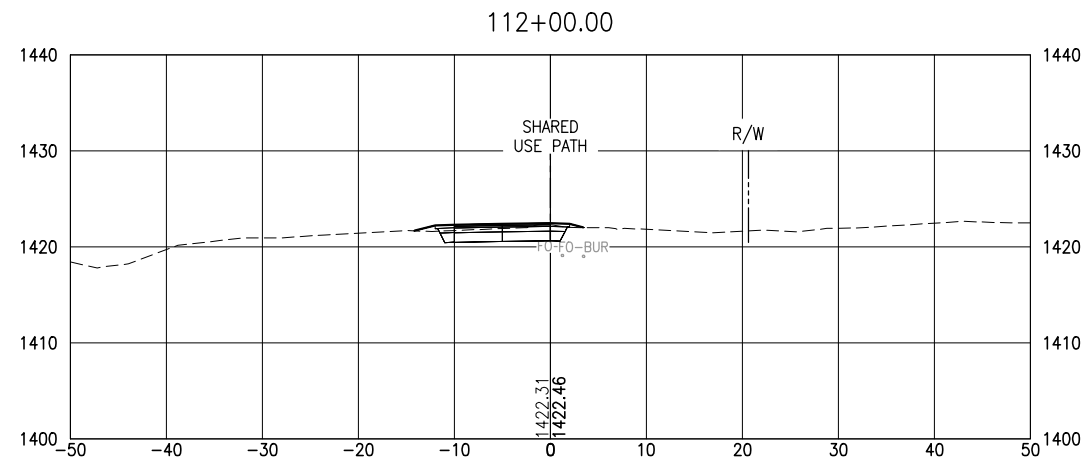
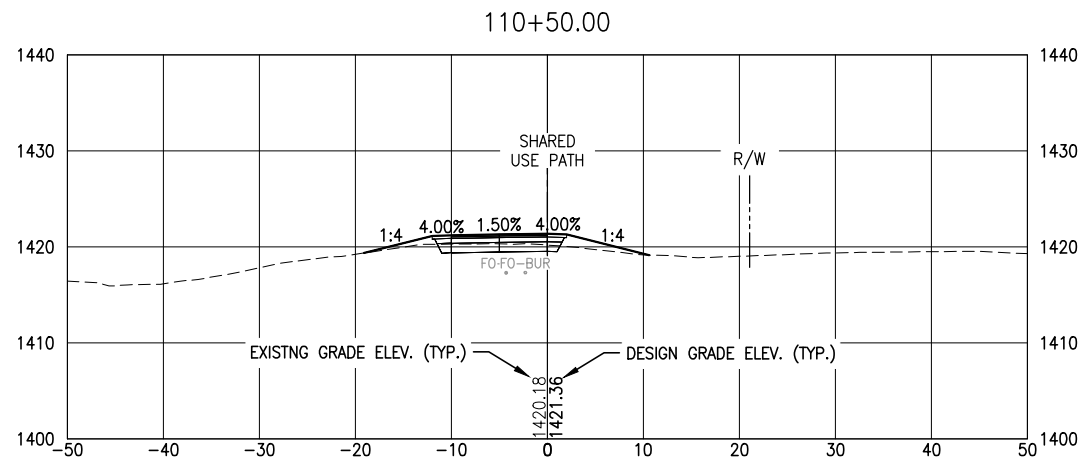
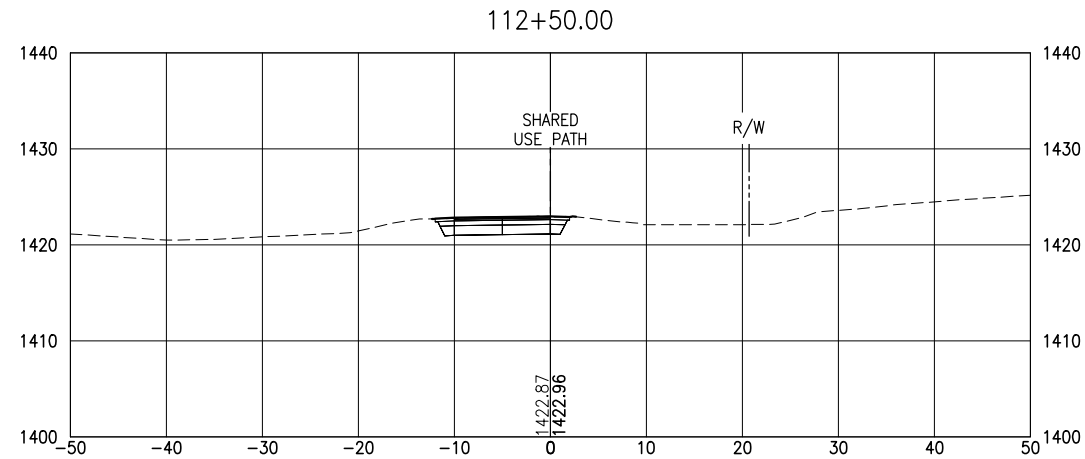
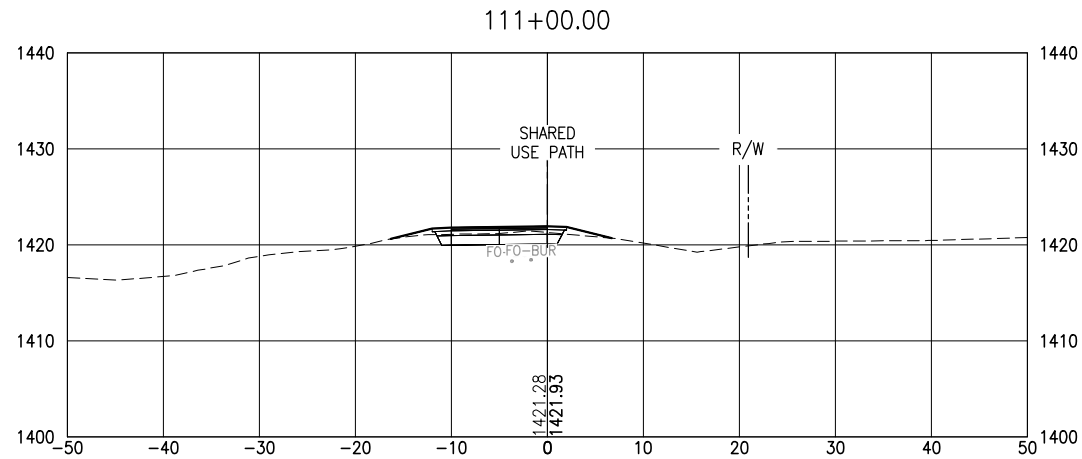
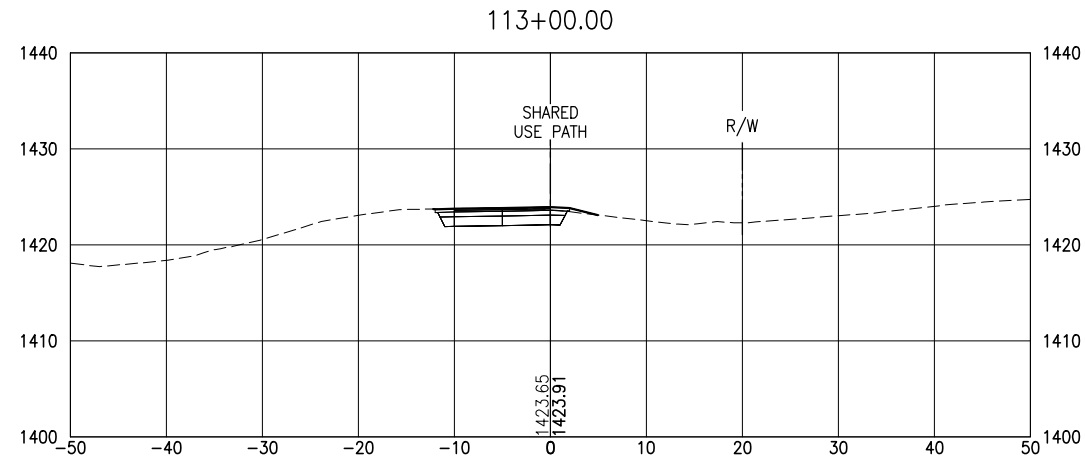
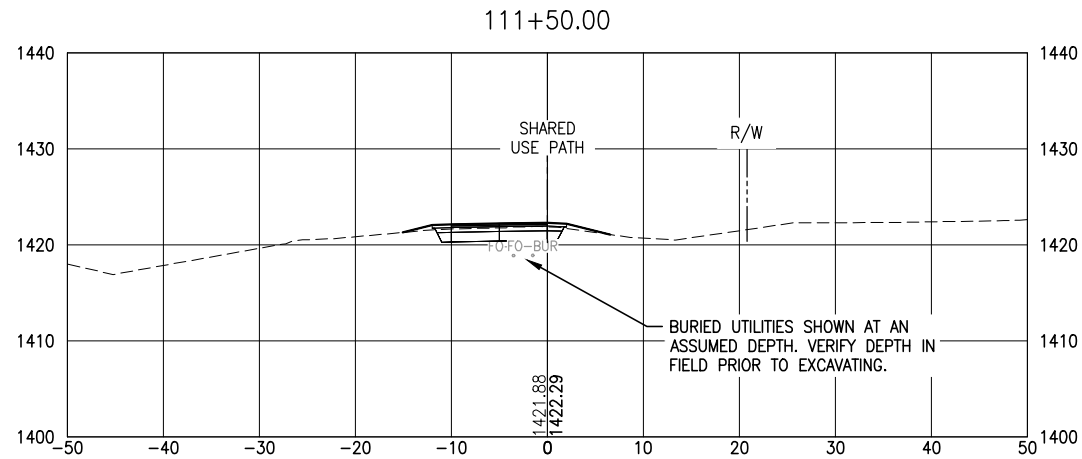
PROJECT:

RICE LAKE ROAD -  
SHARED USE PATH

SHEET TITLE:

CROSS SECTIONS - SHARED USE PATH  
SHEET NO. 52 OF 55 SHEETS

PLOT DATE: 6/30/2026 12:18:53 PM FILE: G:\24Pro\240652 500 Drawings\Civil\01 Shared Use Path - (Norton Rd to Ridgeview Rd)\240652 12.0 Cross Sections - Shared Use Path.dwg



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DES:  
CHK:

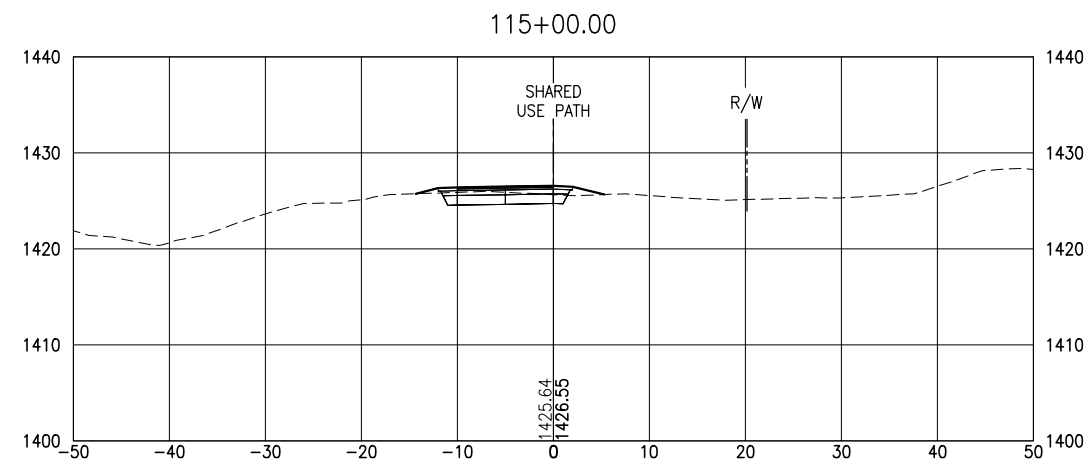
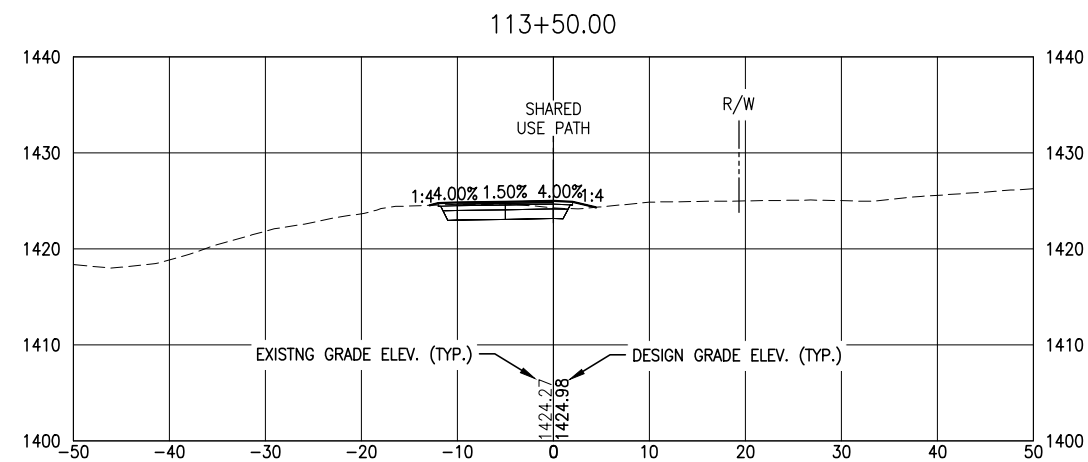
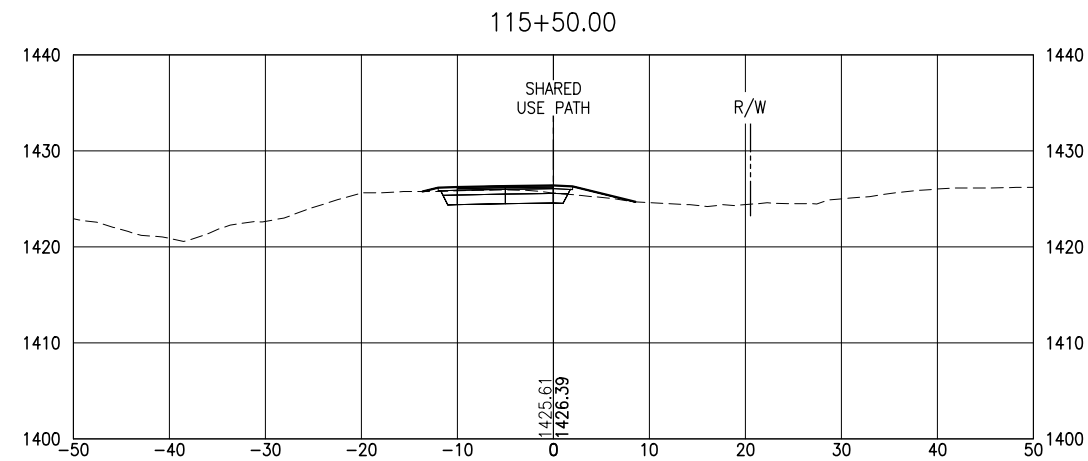
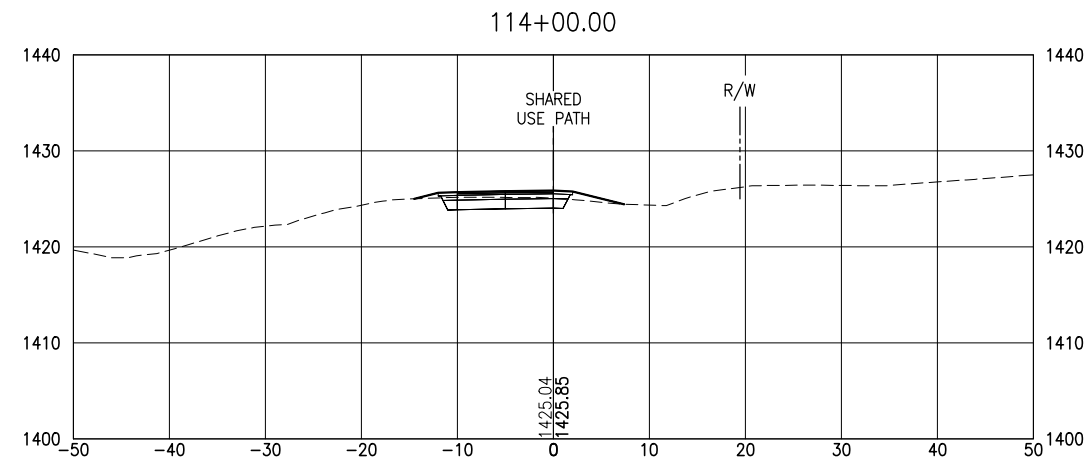
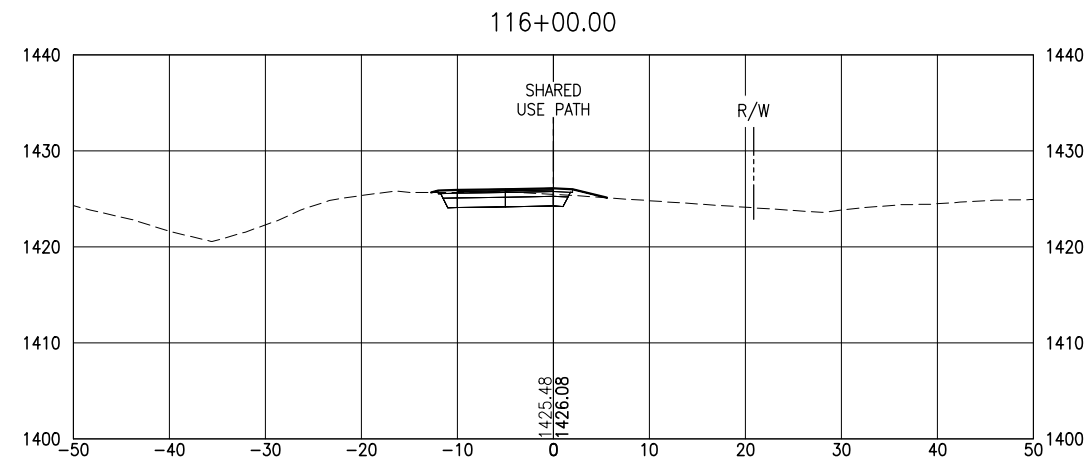
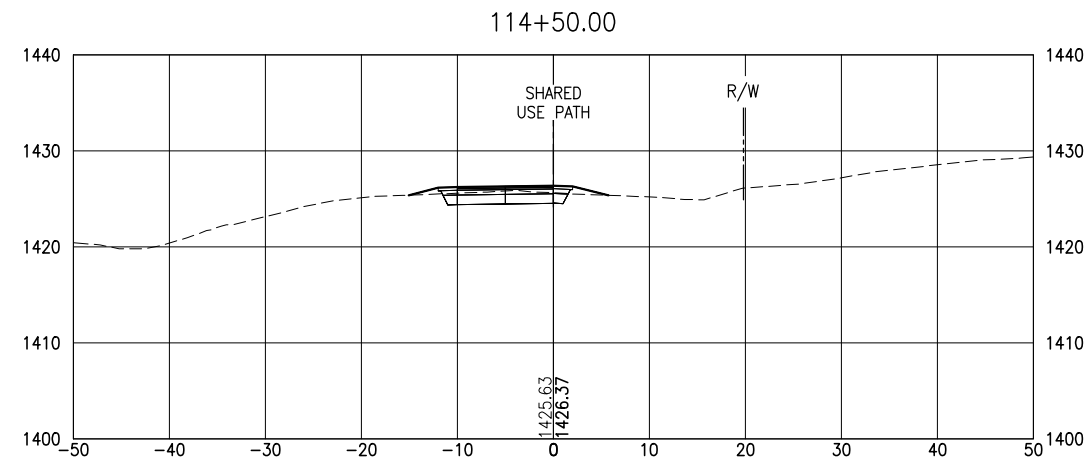
PROJECT:

RICE LAKE ROAD -  
SHARED USE PATH

SHEET TITLE:

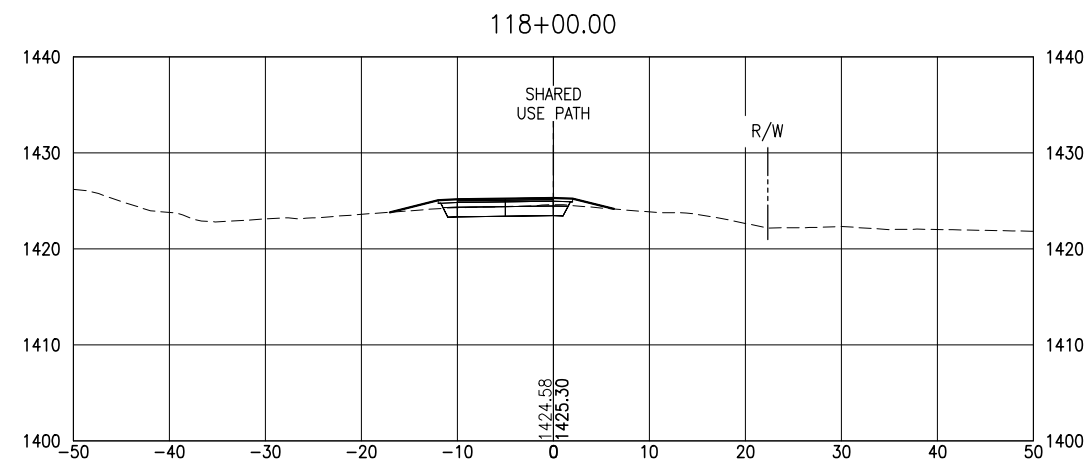
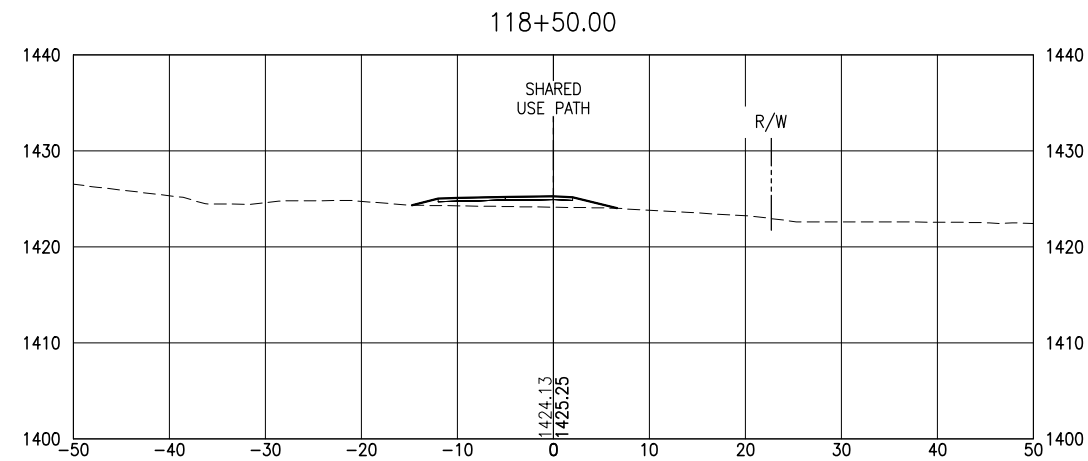
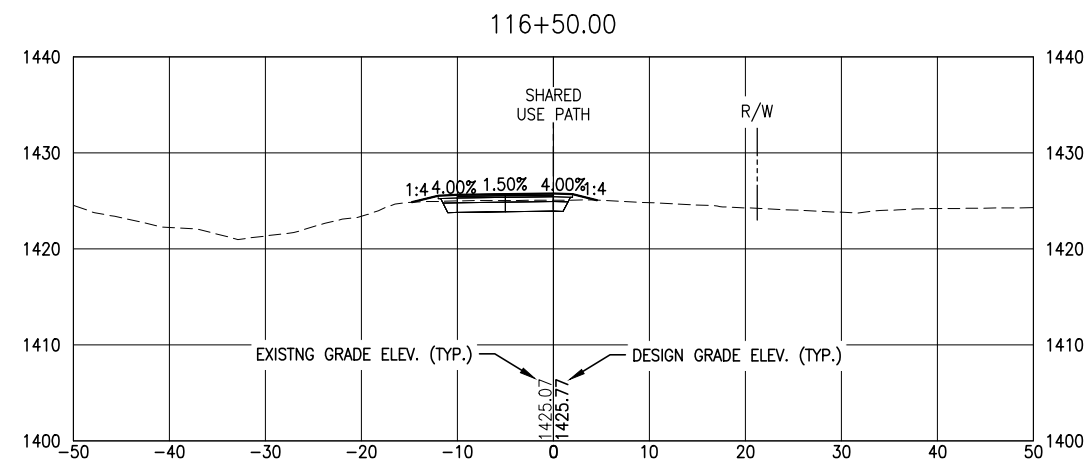
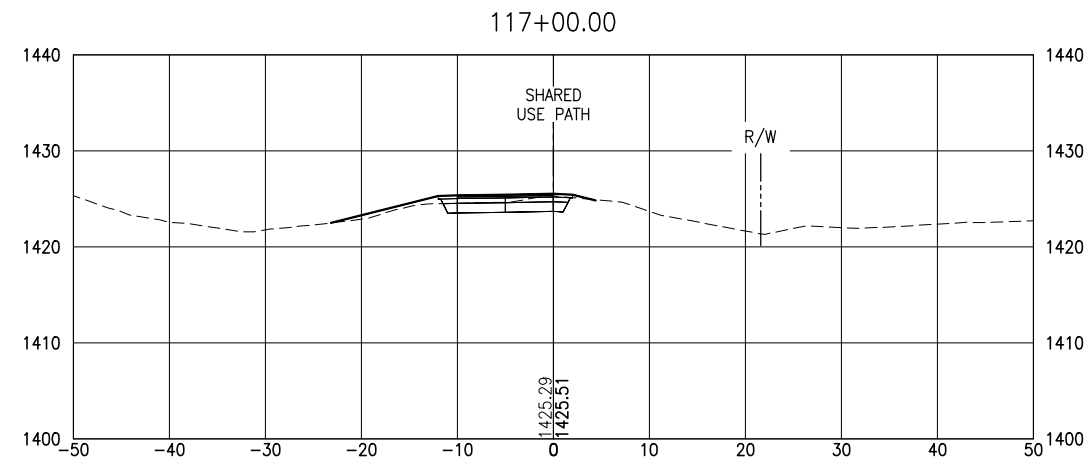
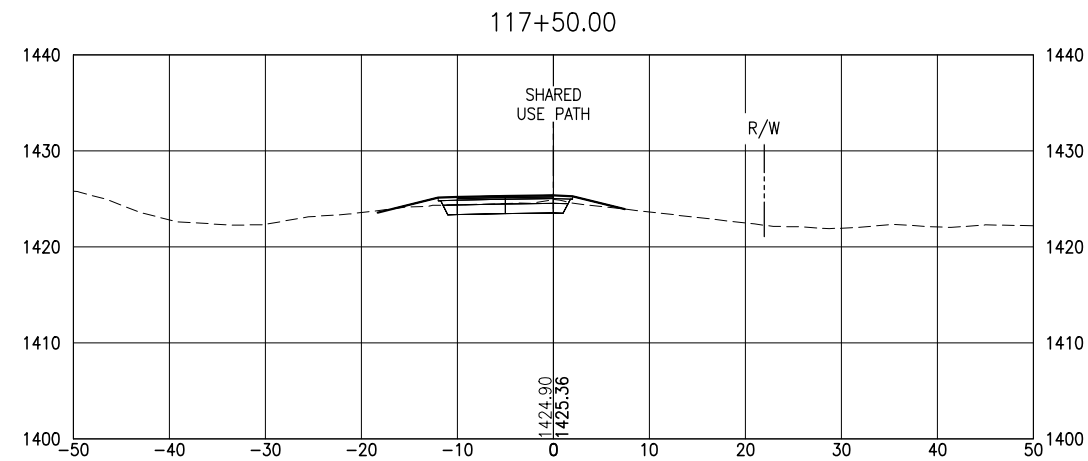
CROSS SECTIONS - SHARED USE PATH  
SHEET NO. 53 OF 55 SHEETS

PLOT DATE: 6/30/2026 12:19:05 PM FILE: Q:\24Pro\240652\500 Drawings\Civil\01 Shared Use Path - (Norton Rd to Ridgeview Rd)\240652 12.0 Cross Sections - Shared Use Path.dwg



|          |      |                      |          |                                                                                                                                                                                                                                                                                             |  |                               |  |                                       |                                                 |                                                                               |
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| REV. NO. | DATE | REVISION DESCRIPTION | APPROVED |                                                                                                                                                                                                                                                                                             |  | SP 069-604-086                |  |                                       |                                                 |                                                                               |

PLOT DATE: 6/30/2026 12:19:05 PM FILE: G:\24Pro\240652\500 Drawings\RA\240652 12.0 Cross Sections - Shared Use Path.dwg



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ST LOUIS COUNTY CP0004-490685

SP 069-604-086

DR: \_\_\_\_\_  
DES: \_\_\_\_\_  
CHK: \_\_\_\_\_

PROJECT:

RICE LAKE ROAD -  
SHARED USE PATH

SHEET TITLE:

CROSS SECTIONS - SHARED USE PATH  
SHEET NO. 55 OF 55 SHEETS