

PoDI / NHS

FHWA PROJECT OF DIVISION INTEREST (PoDI)? NO YES

NATIONAL HIGHWAY SYSTEM? NO YES

BOULDER COUNTY

HIGHWAY CONSTRUCTION BID PLANS OF PROPOSED CO 119 BIKEWAY BOULDER COUNTY PROJECT NO. 102541

Related Projects:
P. E. UNDER PROJECT:
Project Number: 1191-033
Project Code: 21497

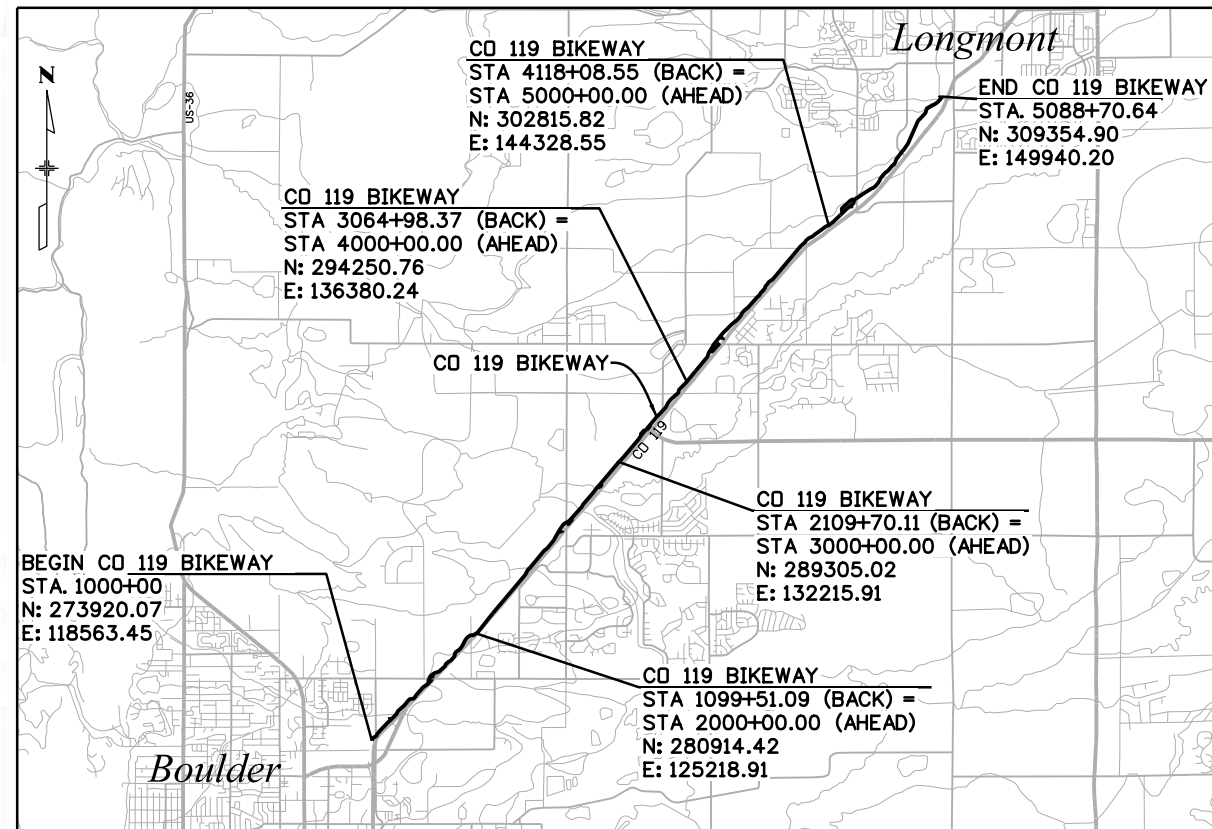
R.O.W. Projects:
R.O.W. Project Description



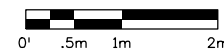
TABULATION OF LENGTH & DESIGN DATA

| STATION | ROADWAY | |
|--|-----------------|-------------|
| | FEET | MILES |
| BEGIN PROJECT = STA. 1000+00 | | |
| EQUATION : STA. 1099+52.79 (BACK) = STA 2000+00 (AHEAD) | 9952.79 | 1.88 |
| EQUATION : STA. 2109+70.11 (BACK) = STA 3000+00 (AHEAD) | 10970.11 | 2.08 |
| EQUATION : STA. 3064+98.37 (BACK) = STA 4000+00 (AHEAD) | 6498.37 | 1.23 |
| EQUATION : STA. 4118+08.55 (BACK) = STA 5000+00 (AHEAD) | 11808.55 | 2.24 |
| EQUATION : STA. 4118+08.55 (BACK) = STA 5000+00 (AHEAD) | 8870.6 | 1.68 |
| END PROJECT = STA. 5088+70.63 | | |
| PROJECT LENGTH | 48100.45 | 9.11 |

| DESIGN DATA | CO 119 BIKEWAY |
|---------------------------|----------------|
| DESIGN SPEED | 25 MPH |
| MAXIMUM GRADE | 4.80% |
| MINIMUM GRADE | 0.50% |
| MINIMUM S.S.D. HORIZONTAL | 222 FT. |
| MINIMUM S.S.D. VERTICAL | 222 FT. |
| CLEAR ZONE (TANGENT) | 5 FT. |



PROJECT LOCATION MAP



FIR INDEX OF SHEETS

| SHEET NO. | TITLE |
|-----------|--------------------------------------|
| 1 | TITLE SHEET |
| 2 | STANDARD PLANS LIST |
| 3 | GENERAL NOTES |
| 4 - 5 | TYPICAL SECTIONS |
| 6 - 9 | SUMMARY OF APPROXIMATE QUANTITIES |
| 10 | SURVEY TABULATION |
| 11 - 15 | SURVEY CONTROL DIAGRAM |
| 16 | MISCELLANEOUS DETAIL |
| 17 - 23 | BIKEWAY GEOMETRY PLANS |
| 24 | KEY MAP |
| 25 - 68 | BIKEWAY PLAN AND PROFILES |
| 69 - 93 | BIKEWAY SPUR CONNECTIONS |
| 94 - 98 | INTERSECTION DETAILS |
| 99 - 142 | UTILITY PLANS |
| 143 | STRUCTURES GENERAL INFORMATION SHEET |
| 144 - 157 | STRUCTURE SHEETS |
| 158 | DRAINAGE NOTES |
| 159 - 160 | DRAINAGE DETAILS |
| 161 - 174 | LIGHTING PLANS |
| 175 - 181 | STORMWATER MANAGEMENT PLANS |
| 182 | CONSTRUCTION PHASING NOTES |
| 183 - 273 | CROSS SECTIONS |

All seals for this set of drawings are applied to the cover page(s)

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Unit Information Unit Leader:
MULLER Otak
ENGINEERING COMPANY

Sheet Revisions

| Date: | Comments | Init. |
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As Constructed

No Revisions:

Revised:

Void:

Cover Page

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| Contractor: | |
| Resident Engineer: | |
| Project Engineer: | |
| PROJECT STARTED: / / | ACCEPTED: / / |
| Comments: | |

Project No./Code

Cover Page 1

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| PLAN NUMBER | M STANDARD TITLE | PAGE NUMBER |
|-------------|--|------------------|
| ■ M-100-1 | STANDARD SYMBOLS (3 SHEETS)..... | 1-3 |
| ■ M-100-2 | ACRONYMS AND ABBREVIATIONS (4 SHEETS)..... | 4-7 |
| □ M-203-1 | APPROACH ROADS..... | 8 |
| □ M-203-2 | DITCH TYPES..... | 9 |
| □ M-203-11 | SUPERELEVATION CROWNED AND DIVIDED HIGHWAYS (3 SHEETS)..... | 10-12 |
| □ M-203-12 | SUPERELEVATION STREETS (2 SHEETS)..... | 13-14 |
| ■ M-206-1 | EXCAVATION AND BACKFILL FOR STRUCTURES (2 SHEETS)..... | 15-16 |
| ■ M-206-2 | EXCAVATION AND BACKFILL FOR BRIDGES (2 SHEETS)..... | 17-18 |
| ■ M-208-1 | TEMPORARY EROSION CONTROL (11 SHEETS)..... | 19-29 |
| □ M-210-1 | MAILBOX SUPPORTS (2 SHEETS)..... | 30-31 |
| □ M-214-1 | NURSERY STOCK DETAILS..... | 32 |
| ■ M-216-1 | SOIL RETENTION COVERING (2 SHEETS)..... | 33-34 |
| ■ M-412-1 | CONCRETE PAVEMENT JOINTS (9 SHEETS)..... | 35-39 |
| □ M-412-2 | CONCRETE PAVEMENT CRACK REPAIR (4 SHEETS) (NEW, ISSUED ON OCTOBER 7, 2019) | |
| □ M-510-1 | STRUCTURAL PLATE PIPE H-20 LOADING..... | 40 |
| ■ M-601-1 | SINGLE CONCRETE BOX CULVERT (CAST-IN-PLACE)..... | 41-42 (2 SHEETS) |
| □ M-601-2 | DOUBLE CONCRETE BOX CULVERT (CAST-IN-PLACE)..... | 43-44 (2 SHEETS) |
| □ M-601-3 | TRIPLE CONCRETE BOX CULVERT (CAST-IN-PLACE)..... | 45-46 (2 SHEETS) |
| ■ M-601-10 | HEADWALL FOR PIPES..... | 47 |
| □ M-601-11 | TYPE "S" SADDLE HEADWALLS FOR PIPE..... | 48 |
| ■ M-601-12 | HEADWALLS AND PIPE OUTLET PAVING..... | 49 |
| ■ M-601-20 | WINGWALLS FOR PIPE OR BOX CULVERTS (2 SHEETS)... | 50-51 |
| ■ M-603-1 | METAL PIPE (4 SHEETS)..... | 52-55 |
| ■ M-603-2 | REINFORCED CONCRETE PIPE..... | 56 |
| ■ M-603-3 | PRECAST CONCRETE BOX CULVERT..... | 57 |
| □ M-603-4 | CORRUGATED POLYETHYLENE PIPE (AASHTO M294) AND CORRUGATED POLYPROPYLENE PIPE (AASHTO M330) (2 sheets) (REVISED ON MARCH 7, 2022) | 58 |
| □ M-603-5 | POLYVINYL CHLORIDE (PVC) PIPE (AASHTO M304)..... | 59 |
| □ M-603-6 | STEEL REINFORCED POLYETHYLENE RIBBED PIPE (AASHTO MP 20) | 60 |
| ■ M-603-10 | CONCRETE AND METAL END SECTIONS..... | 61 |
| □ M-603-12 | TRAVERSABLE END SECTIONS AND SAFETY GRATES..... | 62-64 (3 SHEETS) |
| ■ M-604-10 | INLET, TYPE C..... | 65 |
| ■ M-604-11 | INLET, TYPE D..... | 66 |
| □ M-604-12 | CURB INLET TYPE R (2 SHEETS)..... | 67-68 |
| ■ M-604-13 | CONCRETE INLET TYPE 13..... | 69 |
| ■ M-604-20 | MANHOLES (3 SHEETS)..... | 70-72 |
| □ M-604-25 | VANE GRATE INLET (5 SHEETS)..... | 73-77 |
| ■ M-605-1 | SUBSURFACE DRAINS..... | 78 |



| PLAN NUMBER | M STANDARD TITLE | PAGE NUMBER |
|-------------|---|--------------------|
| ■ M-606-1 | MIDWEST GUARDRAIL SYSTEM TYPE 3 W-BEAM 31 INCHES (19 SHEETS) (REVISED ON MARCH 5, 2020) | 79-97 |
| □ M-606-13 | GUARDRAIL TYPE 7 F-SHAPE BARRIER (4 SHEETS)..... | 98-101 |
| □ M-606-14 | PRECAST TYPE 7 CONCRETE BARRIER (4 SHEETS)..... | 102-104 |
| □ M-606-15 | GUARDRAIL TYPE 9 SINGLE SLOPE BARRIER (11 SHEETS) (REVISED ON MARCH 5, 2020) | 105-116 |
| □ M-607-1 | WIRE FENCES AND GATES (3 SHEETS)..... | 116-118 |
| □ M-607-2 | CHAIN LINK FENCE (3 SHEETS)..... | 119-121 |
| □ M-607-3 | BARRIER FENCE..... | 122 |
| □ M-607-4 | DEER FENCE, GATES, AND GAME RAMPS (7 SHEETS)..... | 123-127 |
| □ M-607-10 | PICKET SNOW FENCE..... | 128 |
| □ M-607-15 | ROAD CLOSURE GATE (9 SHEETS)..... | 129-137 |
| ■ M-608-1 | CURB RAMPS (10 SHEETS)..... | 138-147 |
| ■ M-609-1 | CURBS, GUTTERS, AND SIDEWALKS (4 SHEETS)..... | 148-151 |
| □ M-611-1 | CATTLE GUARD (2 SHEETS)..... | 152-153 |
| □ M-611-2 | DEER GUARD (2 SHEETS)..... | 154-155 |
| □ M-614-1 | RUMBLE STRIPS (3 SHEETS)..... | 156-158 |
| □ M-614-2 | SAND BARREL ARRAYS (2 SHEETS)..... | 159-160 |
| □ M-615-1 | EMBANKMENT PROTECTOR TYPE 3..... | 161 |
| □ M-615-2 | EMBANKMENT PROTECTOR TYPE 5..... | 162 |
| □ M-616-1 | INVERTED SIPHON..... | 163 |
| □ M-620-1 | FIELD LABORATORY CLASS 1..... | 164 |
| ■ M-620-2 | FIELD LABORATORY CLASS 2 (2 SHEETS)..... | 165-166 |
| □ M-620-11 | FIELD OFFICE CLASS 1..... | 167 |
| ■ M-620-12 | FIELD OFFICE CLASS 2..... | 168 |
| □ M-629-1 | SURVEY MONUMENTS (2 SHEETS)..... | 169-170 |

| PLAN NUMBER | S STANDARD TITLE | PAGE NUMBER |
|----------------------|--|--------------------|
| □ S-612-1 | DELINEATOR INSTALLATIONS (8 SHEETS)..... | 171-178 |
| □ S-613-1 | ROADWAY LIGHTING (6 SHEETS)..... | 179-186 |
| □ S-613-2 | ALTERNATIVE ROADWAY LIGHTING (4 SHEETS) (NEW, ISSUED ON SEPTEMBER 30, 2020) | |
| ■ S-614-1 | GROUND SIGN PLACEMENT (2 SHEETS)..... | 187-188 |
| ■ S-614-2 | CLASS I SIGNS..... | 189 |
| □ S-614-3 | CLASS II SIGNS..... | 190 |
| □ S-614-4 | CLASS III SIGNS (3 SHEETS)..... | 191-193 |
| □ S-614-5 | BREAK-AWAY SIGN SUPPORT DETAILS FOR CLASS III SIGNS (2 SHEETS)..... | 194-195 |
| □ S-614-6 | CONCRETE FOOTINGS AND SIGN ISLANDS FOR CLASS III SIGNS (2 SHEETS)..... | 196-197 |
| □ S-614-8 | TUBULAR STEEL SIGN SUPPORT DETAILS (7 SHEETS)..... | 198-204 |
| □ S-614-9 | PEDESTRIAN PUSH BUTTON POST ASSEMBLY (2 SHEETS)..... | 205-206 |
| □ S-614-10 | MARKER ASSEMBLY INSTALLATIONS..... | 207 |
| □ S-614-11 | MILEPOST SIGN DETAIL FOR HIGH SNOW AREAS..... | 208 |
| ■ S-614-12 | STRUCTURE NUMBER INSTALLATION (2 SHEETS)..... | 209-210 |
| □ S-614-14 | FLASHING BEACON AND SIGN INSTALLATIONS (4 SHEETS)..... | 211-214 |
| □ S-614-20 | TYPICAL POLE MOUNT SIGN INSTALLATIONS..... | 215 |
| □ S-614-21 | CONCRETE BARRIER SIGN POST INSTALLATIONS (2 SHEETS) (REVISED ON SEPTEMBER 21, 2020) | 216-217 |
| □ S-614-22 | TYPICAL MULTI-SIGN INSTALLATIONS..... | 218 |
| □ S-614-40 | TYPICAL TRAFFIC SIGNAL 30'-75' DOUBLE MAST ARMS 65'-75' SINGLE MAST ARMS (5 SHEETS)..... | 219-223 |
| □ S-614-40A | ALTERNATIVE TRAFFIC SIGNAL 25'-55' SINGLE MAST ARMS (4 SHEETS)..... | 224-227 |
| □ S-614-41 | TEMPORARY SPAN WIRE SIGNALS (13 SHEETS)..... | 228-240 |
| □ S-614-42 | CABINET FOUNDATION DETAIL (4 SHEETS)..... | 241-244 |
| □ S-614-43 | TRAFFIC LOOP AND MISCELLANEOUS SIGNAL DETAILS (8 SHEETS)..... | 245-252 |
| □ S-614-44 | PEDESTAL POLE SIGNALS (2 SHEETS)..... | 253-254 |
| □ S-614-45 | PEDESTRIAN PUSH BUTTON POST ASSEMBLY DETAILS (6 SHEETS) (REVISED ON DECEMBER 3, 2020) | |
| □ S-614-50 | STATIC SIGN MONOTUBE STRUCTURES (12 SHEETS)..... | 255-266 |
| □ S-614-60 | DYNAMIC SIGN MONOTUBE STRUCTURES (14 SHEETS)..... | 267-280 |
| □ S-627-1 | PAVEMENT MARKINGS (9 SHEETS)..... | 281-289 |
| ■ S-630-1 | TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION (24 SHEETS)..... | 290-313 |
| ■ S-630-2 | BARRICADES, DRUMS, CONCRETE BARRIERS (TEMP) AND VERTICAL PANELS..... | 314 |
| □ S-630-3 | FLASHING BEACON (PORTABLE) DETAILS..... | 315 |
| ■ S-630-4 | STEEL SIGN SUPPORT (TEMPORARY) INSTALLATION DETAILS (2 SHEETS)..... | 316-317 |
| □ S-630-5 | PORTABLE RUMBLE STRIPS (TEMPORARY) (2 SHEETS)..... | 318-319 |
| □ S-630-6 | EMERGENCY PULL-OFF AREA (TEMPORARY)..... | 320 |
| □ S-630-7 | ROLLING ROADBLOCKS FOR TRAFFIC CONTROL (3 SHEETS)..... | 321-323 |

COLORADO
DEPARTMENT OF TRANSPORTATION
M&S STANDARDS PLANS LIST
 July 31, 2019
 Revised on March 7, 2022

ALL OF THE M&S STANDARD PLANS, AS SUPPLEMENTED AND REVISED, APPLY TO THIS PROJECT WHEN USED BY DESIGNATED PAY ITEM OR SUBSIDIARY ITEM.

THE M&S STANDARD PLANS USED TO DESIGN THIS PROJECT ARE INDICATED BY A MARKED BOX ■, AND WILL BE ATTACHED TO THE PLANS. ALL THE OTHER M&S STANDARD PLANS ARE STILL ELIGIBLE FOR CONSTRUCTION IF APPROVED BY AN APPROPRIATE CDOT ENGINEER.

| | | | | | | | | | | |
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| All seals for this set of drawings are applied to the cover page(s) | Print Date: 6/28/2022 | Sheet Revisions | | |  | As Constructed | | CD 119 BIKEWAY | | Project No./Code |
| | File Name: 102_21015_GN_Std Pln List.dgn | Date: | Comments | Init. | | No Revisions: | | STANDARD PLANS LIST | | |
| | Horiz. Scale: Vert. Scale: As Noted | | | | | Revised: | | Designer: DKH | Structure Numbers | |
| | Unit Information | | | | | Void: | | Detailer: PDP | | |
|  | | | | | Sheet Subset: GN | | Subset Sheets: 1 of 1 | Sheet Number 2 | | |

GENERAL NOTES:

SECTION 100

1. THE COLORADO DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION DATED 2021, THE BOULDER COUNTY MULTIMODAL TRANSPORTATION STANDARDS DATED 2012 ALONG WITH PROJECT SPECIAL PROVISIONS AND STANDARD SPECIAL PROVISIONS, CONTROL CONSTRUCTION OF THIS PROJECT.
2. THE CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER OF ANY PROBLEM IN CONFORMING TO THE APPROVED PLANS FOR ANY ELEMENT OF THE PROPOSED IMPROVEMENTS PRIOR TO ITS CONSTRUCTION.
3. THE CONTRACTOR SHALL BE RESPONSIBLE TO ADHERING TO ALL LOCAL ORDINANCES.

SECTION 200

1. WATER SHALL BE USED AS A DUST PALLIATIVE WHERE REQUIRED. THE CONTRACTOR SHALL PROVIDE A WATER TRUCK ON-SITE FOR DUST CONTROL. LOCATIONS SHALL BE AS DIRECTED BY THE ENGINEER. WATER SHALL NOT BE PAID FOR SEPARATELY.
2. EXCAVATION REQUIRED FOR COMPACTION OF BASES OF CUTS AND FILLS WILL BE CONSIDERED AS SUBSIDIARY TO THAT OPERATION AND WILL NOT BE PAID FOR SEPARATELY.
3. DEPTH OF MOISTURE-DENSITY CONTROL FOR THIS PROJECT SHALL BE AS FOLLOWS:
 - FULL DEPTH OF ALL EMBANKMENTS
 - FULL DEPTH FOR AGGREGATE BASE COURSE
 - 6 INCHES FOR BASES OF CUTS AND FILLS
4. THE CONTRACTOR SHALL KEEP THE WORK AREA DRY OF STANDING WATER AND SHALL KEEP THE EXCAVATION AREAS FREE FROM STORM RUN-OFF.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCEPTANCE AND CONTROL OF ALL SURFACE AND SUBSURFACE DRAINAGE AND GROUNDWATER ENTERING THE PROJECT AREA. THE CONTRACTOR SHALL KEEP THE WORK AREA DRY OF STANDING WATER AND SHALL KEEP THE EXCAVATION AREAS FREE FROM STORM RUN-OFF. REPAIR OF DAMAGES RESULTING FROM RUNOFF IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE INCLUDED IN THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A DEWATERING PERMIT FROM THE STATE.
6. THE CONTRACTOR SHALL LIMIT CONSTRUCTION ACTIVITIES TO THOSE AREAS WITHIN THE LIMITS OF DISTURBANCE SHOWN ON THE PLANS. ANY DISTURBANCE BEYOND THESE LIMITS SHALL BE RESTORED TO ORIGINAL CONDITION BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE. CONSTRUCTION ACTIVITIES IN ADDITION TO NORMAL CONSTRUCTION PROCEDURE SHALL INCLUDE THE PARKING OF VEHICLES OR EQUIPMENT, DISPOSAL OF LITTER, AND ANY OTHER ACTION WHICH WOULD ALTER EXISTING CONDITIONS.
7. ANY DAMAGE TO ITEMS NOT IDENTIFIED FOR REMOVAL SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. ANY MUD OR OTHER MATERIAL TRACKED OR OTHERWISE DEPOSITED ON THE ROADWAY AND SIDEWALK SHALL BE REMOVED DAILY OR AS ORDERED BY THE ENGINEER.
8. PRIVATE DRIVEWAYS AND PARKING LOTS SHALL NOT BE USED AS TURNAROUNDS UNLESS WRITTEN PERMISSION IS OBTAINED FROM THE APPROPRIATE PROPERTY OWNER.
9. PRIOR TO PLACING BIKEWAY CONCRETE PAVING, THE PAVEMENT SUBGRADE SHALL BE PROOF ROLLED WITH A PNEUMATIC TIRED VEHICLE AS DIRECTED BY THE COUNTY'S AND GEOTECHNICAL ENGINEER REPRESENTATIVE.. AREAS WHICH DEFORM EXCESSIVELY (> 1/8 INCH) UNDER THE WHEEL LOADS SHALL BE REMOVED AND REPLACED PRIOR TO PAVING.

SECTION 300

1. DURING CONSTRUCTION THE CONTRACTOR SHALL MAINTAIN ALL ACCESSES USING AGGREGATE BASE COURSE MATERIAL OR OTHER MATERIAL APPROVED BY THE ENGINEER. THIS SHALL NOT BE MEASURED AND PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE WORK.
2. FOR PLAN QUANTITIES OF PAVEMENT MATERIALS FOR FOLLOWING RATE OF APPLICATION WAS USED:
 - AGGREGATE BASE COURSE @ 133 LBS./CF

SECTION 400

1. FOR PLAN QUANTITIES OF PAVEMENT MATERIALS FOR FOLLOWING RATE OF APPLICATION WAS USED:
 - HOT MIX ASPHALT @ 110 LBS./(SQ. YD. x INCH)
 - TACK COAT @ 0.1 GAL/SY

SECTION 600

1. SULFATE EXPOSURE FOR ALL CONCRETE ON THIS PROJECT IS CLASS X, INCLUDING BUT NOT LIMITED TO PCCP, PIPES, ETC.
2. THE CONTRACTOR SHALL REPAIR OR REPLACE AT THEIR EXPENSE ANY EXISTING SIGN DESIGNATED TO REMAIN THAT IS DAMAGED DURING CONSTRUCTION ACTIVITIES. ALL EXISTING SIGNS NOT DESIGNATED FOR REMOVAL OR REPLACEMENT ON THE PLANS ARE DESIGNATED TO STAY.
3. ALL EXISTING SURVEY MONUMENTATION DESIGNATED TO REMAIN SHALL BE PROTECTED FROM DAMAGE BY THE CONTRACTOR DURING CONSTRUCTION OPERATIONS. ANY MONUMENTS DISTURBED BY THE CONTRACTOR THAT ARE NOT DESIGNATED FOR RELOCATION, SHALL BE RESET AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR AND ENGINEER SHALL NOTE THOSE MONUMENTS IN THE FIELD PRIOR TO CONSTRUCTION.
4. THE CONTRACTOR SHALL NOT PARK EQUIPMENT OVERNIGHT WITHIN THE CLEAR ZONE LIMITS WITHOUT APPROVED TRAFFIC CONTROL DEVICES IN PLACE.
5. MAINTENANCE FOR THE SANITARY FACILITY SHALL INCLUDE CLEANING AT LEAST TWICE A WEEK AND SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE SANITARY FACILITY.



IT IS ESTIMATED THAT THE FOLLOWING ITEMS WILL BE REQUIRED:

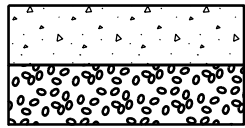
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| ITEM NO. 201-00000 CLEARING AND GRUBBING | 1 (LUMP SUM) |
| ITEM NO. 240-00000 WILDLIFE BIOLOGIST | 16 (HOURS) |
| ITEM NO. 240-00010 REMOVAL OF NESTS | 40 (HOURS) |
| ITEM NO. 240-00020 NETTING | 100 (SQUARE YARDS) |
| ITEM NO. 620-00020 SANITARY FACILITY | 1 (EACH) |
| ITEM NO. 620-00002 FIELD OFFICE (CLASS 2) | 1 (EACH) |
| ITEM NO. 620-00012 FIELD LABORATORY (CLASS 2) | 1 (EACH) |
| ITEM NO. 625-00000 CONSTRUCTION SURVEYING | 1 (LUMP SUM) |
| ITEM NO. 626-00000 MOBILIZATION | 1 (LUMP SUM) |
| ITEM NO. 626-0111X PUBLIC INFORMATION MANAGEMENT (TIER X) | 260 (DAY) |

ENVIRONMENTAL

- 1.

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| | File Name: 105_21015_GN_Gen Notes_1.dgn | | | | | GENERAL NOTES | | GENERAL NOTES | | |
| | Horiz. Scale: Vert. Scale: As Noted | | | | | | | | | |
| | Unit Information | | | | | | | | | |
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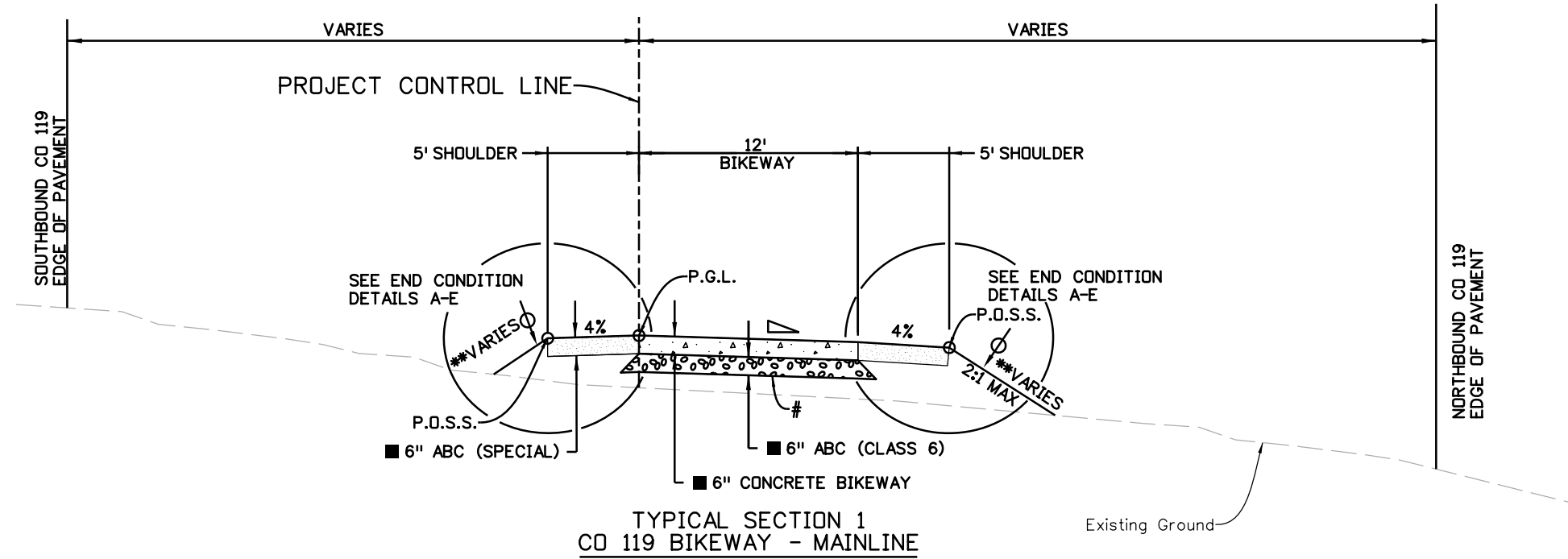
6" ■ CONCRETE BIKEWAY
 6" ■ AGGREGATE BASE COURSE (CLASS 6)

CD 119 BIKEWAY - PAVEMENT SECTION



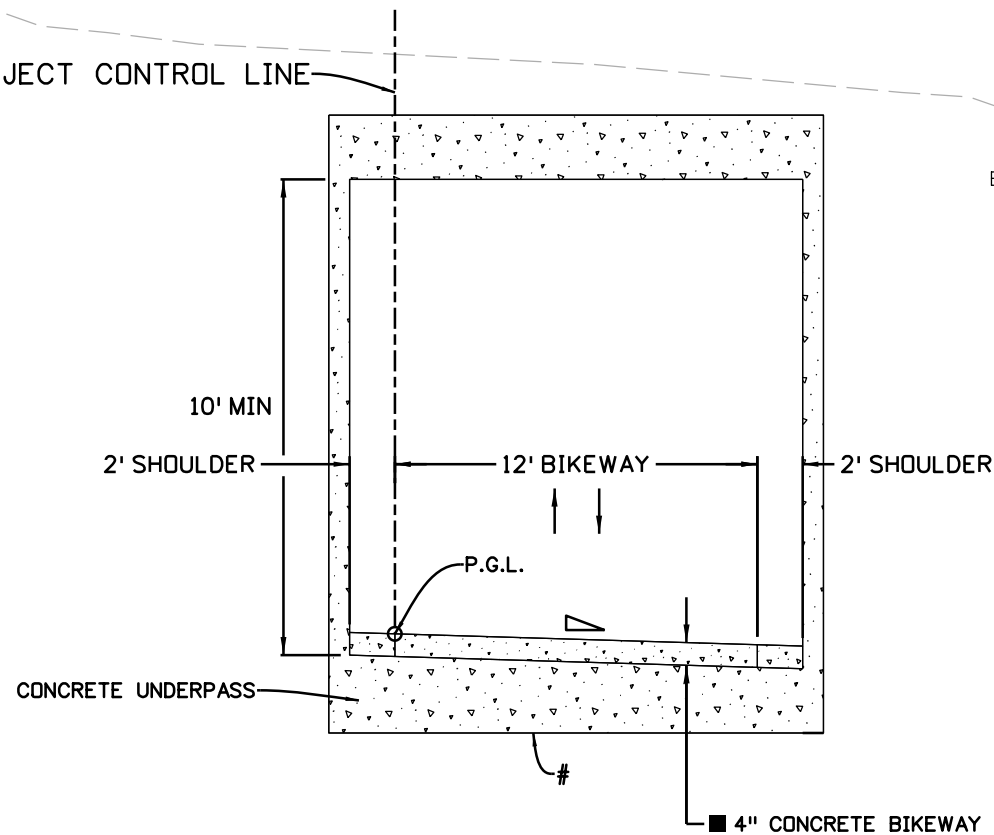
6" ■ CRUSHER FINES (PAID FOR AS AGGREGATE BASE COURSE (SPECIAL))

CD 119 BIKEWAY - SHOULDER



TYPICAL SECTION 1
 CD 119 BIKEWAY - MAINLINE

PROJECT CONTROL LINE



TYPICAL SECTION 2
 CD 119 BIKEWAY - UNDERPASS

TYPICAL SECTION NOTES

1. ○ P.G.L. - PROFILE GRADE LINE
2. P.O.S.S. - POINT OF SLOPE SELECTION
3. ∅ THE CONTRACTOR WILL BE REQUIRED TO PLACE 6 INCHES OF TOPSOIL TO THIS LINE AFTER COMPLETION OF PAVING OPERATION.
4. ▲ BREAKPOINTS IN SLOPES AND IN BOTTOMS OF DITCHES SHALL BE ROUNDED DURING CONSTRUCTION FOR A PLEASING APPEARANCE.
5. ▽ 1.5% BIKEWAY CROSS SLOPE (TYPICAL). FOR SPECIFIC CROSS SLOPES AND SUPERELEVATION LIMITS SEE PROFILE SHEETS.
6. ■ (MINIMUM) THICKNESS
7. ** SLOPE VARIES. SEE BIKEWAY PLANS AND CROSS SECTIONS.
8. SEE BIKEWAY PLANS AND PROFILES FOR CONTROL LINE GEOMETRY.

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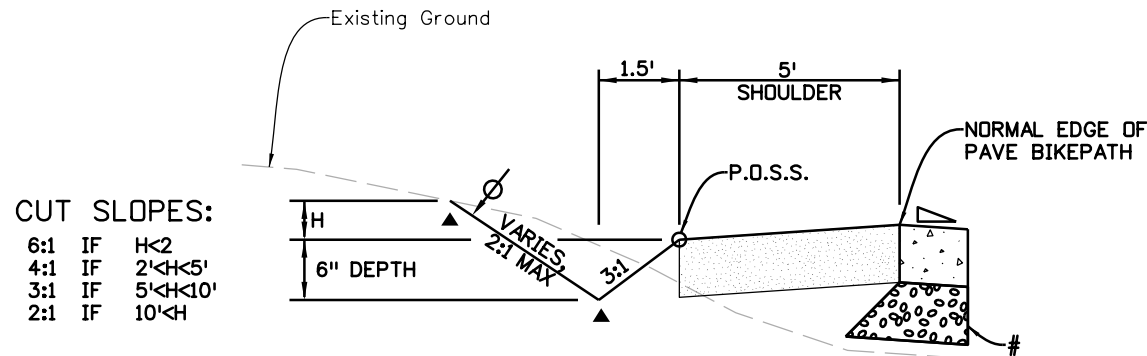
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| File Name: 110_21015_GN_Typicals_1.dgn |
| Horiz. Scale: Vert. Scale: As Noted |
| Unit Information |
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| Sheet Revisions | | |
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| As Constructed | CD 119 BIKEWAY | | Project No./Code |
| No Revisions: | TYPICAL SECTIONS | | |
| Revised: | Designer: DKH | Structure Numbers | |
| Void: | Detailer: PDP | | |
| | Sheet Subset: TYPICALS | Subset Sheets: 1 of 2 | Sheet Number 4 |

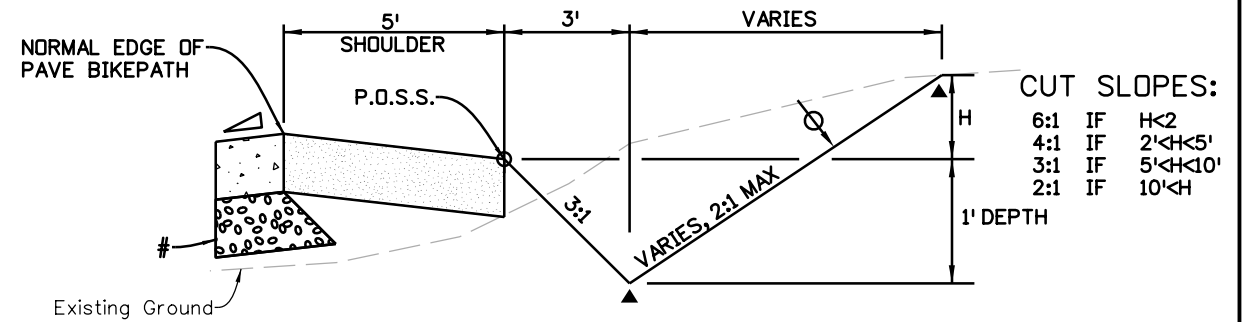
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CUT SLOPES:
 6:1 IF H<2
 4:1 IF 2'<H<5'
 3:1 IF 5'<H<10'
 2:1 IF 10'<H

CO 119 BIKEWAY - END CONDITION A

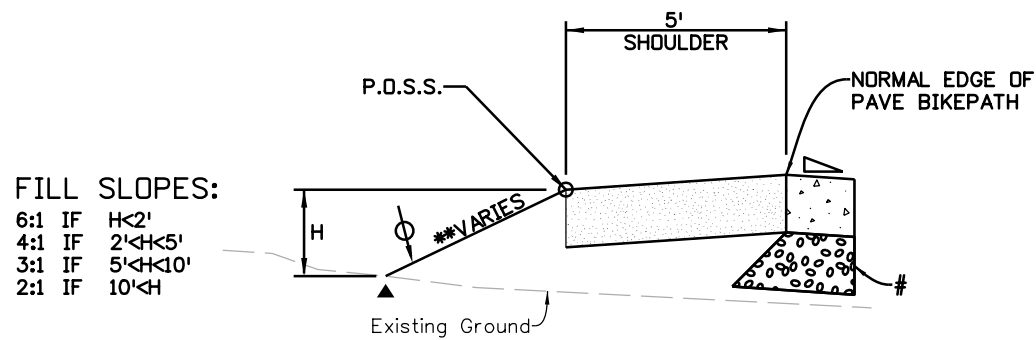
NTS
 SEE DRAINAGE DETAILS FOR SPECIFIC DITCHGRADING



CUT SLOPES:
 6:1 IF H<2
 4:1 IF 2'<H<5'
 3:1 IF 5'<H<10'
 2:1 IF 10'<H

CO 119 BIKEWAY - END CONDITION B

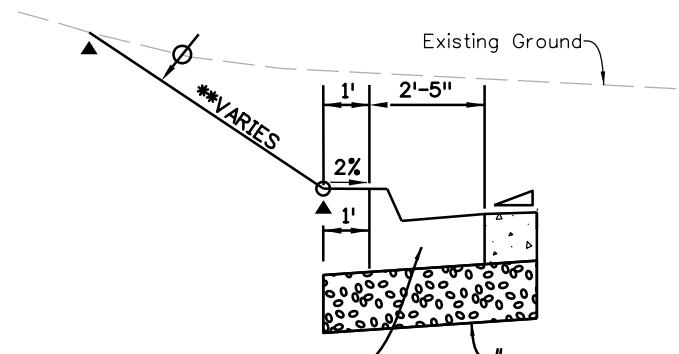
NTS
 SEE DRAINAGE DETAILS FOR SPECIFIC DITCHGRADING



FILL SLOPES:
 6:1 IF H<2'
 4:1 IF 2'<H<5'
 3:1 IF 5'<H<10'
 2:1 IF 10'<H

CO 119 BIKEWAY - END CONDITION C

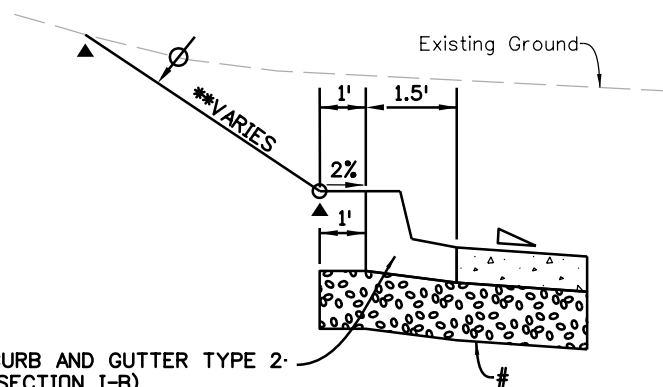
NTS



CURB AND GUTTER TYPE 2- (SECTION II-B)

CO 119 BIKEWAY - END CONDITION D

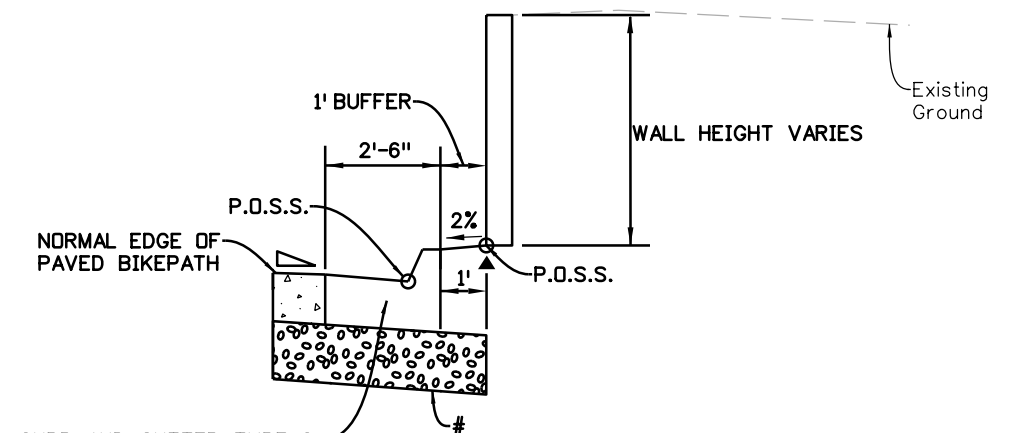
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CURB AND GUTTER TYPE 2- (SECTION I-B)

CO 119 BIKEWAY - END CONDITION E

NTS



CURB AND GUTTER TYPE 2- (SECTION II-B)

CO 119 BIKEWAY - END CONDITION F

NTS

TYPICAL SECTION NOTES

- P.G.L. - PROFILE GRADE LINE
- P.O.S.S. - POINT OF SLOPE SELECTION
- ∅ THE CONTRACTOR WILL BE REQUIRED TO PLACE 6 INCHES OF TOPSOIL TO THIS LINE AFTER COMPLETION OF PAVING OPERATION.
- ▲ BREAKPOINTS IN SLOPES AND IN BOTTOMS OF DITCHES SHALL BE ROUNDED DURING CONSTRUCTION FOR A PLEASING APPEARANCE.
- ▽ 1.5% BIKEWAY CROSS SLOPE (TYPICAL). FOR SPECIFIC CROSS SLOPES AND SUPERELEVATION LIMITS SEE PROFILE SHEETS.
- (MINIMUM) THICKNESS
- ** SLOPE VARIES. SEE BIKEWAY PLANS AND CROSS SECTIONS.
- SEE BIKEWAY PLANS AND PROFILES FOR CONTROL LINE GEOMETRY.

All seals for this set of drawings are applied to the cover page(s)

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| Print Date: 6/28/2022 |
| File Name: 110_21015_GN_Typicals_3.dgn |
| Horiz. Scale: Vert. Scale: As Noted |
| Unit Information |
| MULLER ENGINEERING COMPANY |

| Sheet Revisions | | |
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| As Constructed No Revisions: Revised: Void: | CD 119 BIKEWAY TYPICAL SECTIONS | | | Project No./Code |
| | Designer: DKH | Structure Numbers | | |
| | Detailer: PDP | | | |
| | Sheet Subset: TYPICALS | Subset Sheets: 2 of 2 | Sheet Number | 5 |

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| INDEX | | | CONTRACT ITEM NO. | CONTRACT ITEM | UNIT | BIKEWAY | | | | | | | | | | PROJECT TOTALS | |
|-------|------|-------|-------------------|---|------|---------|-----------|------|-----------|------|-----------|------|-----------|------|-----------|----------------|-----------|
| BOOK | PAGE | SHEET | | | | PLAN | AS CONST. | PLAN | AS CONST. | PLAN | AS CONST. | PLAN | AS CONST. | PLAN | AS CONST. | PLAN | AS CONST. |
| | | | 201-00000 | CLEARING AND GRUBBING | LS | 1 | | | | | | | | | | 1 | |
| | | | 202-00010 | REMOVAL OF TREE | EACH | 67 | | | | | | | | | | 67 | |
| | | | 202-00019 | REMOVAL OF INLET | EACH | 2 | | | | | | | | | | 2 | |
| | | | 202-00033 | REMOVAL OF PIPE | EACH | 14 | | | | | | | | | | 14 | |
| | | | 202-00037 | REMOVAL OF END SECTION | EACH | 14 | | | | | | | | | | 14 | |
| | | | 202-00155 | REMOVAL OF WALL | LF | 40 | | | | | | | | | | 40 | |
| | | | 202-00190 | REMOVAL OF CONCRETE MEDIAN COVER MATERIAL | SY | 35 | | | | | | | | | | 35 | |
| | | | 202-00200 | REMOVAL OF SIDEWALK | SY | 1,464 | | | | | | | | | | 1,464 | |
| | | | 202-00203 | REMOVAL OF CURB AND GUTTER | LF | 165 | | | | | | | | | | 165 | |
| | | | 202-00206 | REMOVAL OF CONCRETE CURB RAMP | SY | 62 | | | | | | | | | | 62 | |
| | | | 202-00210 | REMOVAL OF CONCRETE PAVEMENT | SY | 1,088 | | | | | | | | | | 1,088 | |
| | | | 202-00220 | REMOVAL OF ASPHALT MAT | SY | 1,459 | | | | | | | | | | 1,459 | |
| | | | 202-00250 | REMOVAL OF PAVEMENT MARKING | SF | 124 | | | | | | | | | | 124 | |
| | | | 202-00503 | REMOVAL OF PORTIONS OF PRESENT STRUCTURE | SY | 15 | | | | | | | | | | 15 | |
| | | | 202-00821 | REMOVAL OF SIGN PANEL | EACH | 1 | | | | | | | | | | 1 | |
| | | | 202-00840 | REMOVAL OF TRAFFIC SIGNAL POLE | EACH | 1 | | | | | | | | | | 1 | |
| | | | 202-01000 | REMOVAL OF FENCE | LF | 371 | | | | | | | | | | 371 | |
| | | | 203-00010 | UNCLASSIFIED EXCAVATION (COMPLETE IN PLACE) | CY | 51,966 | | | | | | | | | | 51,966 | |
| | | | 206-00000 | STRUCTURE EXCAVATION | CY | 12,021 | | | | | | | | | | 12,021 | |
| | | | 206-00100 | STRUCTURE BACKFILL (CLASS 1) | CY | 5,727 | | | | | | | | | | 5,727 | |
| | | | 206-00510 | FILTER MATERIAL (CLASS A) | CY | 35 | | | | | | | | | | 35 | |
| | | | 207-00205 | TOPSOIL | CY | 2,009 | | | | | | | | | | 2,009 | |
| | | | 208-00000 | EROSION CONTROL | LS | 1 | | | | | | | | | | 1 | |
| | | | 210-00750 | RESET LIGHT STANDARD | EACH | 6 | | | | | | | | | | 6 | |
| | | | 210-00810 | RESET GROUND SIGN | EACH | 1 | | | | | | | | | | 1 | |
| | | | 210-00827 | RESET PULL BOX | EACH | 4 | | | | | | | | | | 4 | |
| | | | 210-00848 | RESET TRAFFIC SIGNAL CONTROLLER AND CABINET | EACH | 1 | | | | | | | | | | 1 | |
| | | | 210-01000 | RESET FENCE | LF | 702 | | | | | | | | | | 702 | |
| | | | 210-04010 | ADJUST MANHOLE | EACH | 1 | | | | | | | | | | 1 | |
| | | | 210-04060 | ADJUST WATER METER | EACH | 1 | | | | | | | | | | 1 | |
| | | | 211-03005 | DEWATERING | LS | 1 | | | | | | | | | | 1 | |
| | | | 240-00000 | WILDLIFE BIOLOGIST | hour | 16 | | | | | | | | | | 16 | |
| | | | 240-00010 | REMOVAL OF NESTS | hour | 40 | | | | | | | | | | 40 | |
| | | | 240-00020 | NETTING | SY | 100 | | | | | | | | | | 100 | |
| | | | 304-06000 | AGGREGATE BASE COURSE (CLASS 6) | TON | 22,849 | | | | | | | | | | 22,849 | |
| | | | 304-09014 | AGGREGATE BASE COURSE (SPECIAL) | TON | 15,589 | | | | | | | | | | 15,589 | |
| | | | 403-00720 | HOT MIX ASPHALT (PATCHING) (ASPHALT) | TON | 631 | | | | | | | | | | 631 | |
| | | | 412-01200 | CONCRETE PAVEMENT (12 INCH) | SY | 1,028 | | | | | | | | | | 1,028 | |
| | | | 502-11274 | STEEL PILING (HP 12X74) | LF | 240 | | | | | | | | | | 240 | |

All seals for this set of drawings are applied to the cover page(s)

Print Date: 6/29/2022
 File Name: 115_21015_GN_SAQ_1.dgn
 Horiz. Scale: Vert. Scale: As Noted
 Unit Information

| Sheet Revisions | | |
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| As Constructed |
| No Revisions: |
| Revised: |
| Void: |

CD 119 BIKEWAY
SUMMARY OF APPROXIMATE QUANTITIES
 Designer: DKH Structure Numbers
 Detailer: PDP
 Sheet Subset: SAQ Subset Sheets: 1 of 4

Project No./Code
 Sheet Number **6**

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| INDEX | | | CONTRACT ITEM NO. | CONTRACT ITEM | UNIT | BIKEWAY | | | | | | | | | | PROJECT TOTALS | |
|-------|------|-------|-------------------|--|------|---------|-----------|------|-----------|------|-----------|------|-----------|------|-----------|----------------|-----------|
| BOOK | PAGE | SHEET | | | | PLAN | AS CONST. | PLAN | AS CONST. | PLAN | AS CONST. | PLAN | AS CONST. | PLAN | AS CONST. | PLAN | AS CONST. |
| | | | 503-00030 | DRILLED SHAFT (30 INCH) | LF | 120 | | | | | | | | | | 120 | |
| | | | 504-08050 | STONE LANDSCAPE WALL | SF | 22,645 | | | | | | | | | | 22,645 | |
| | | | 506-00209 | RIPRAP (9 INCH) | CY | 108 | | | | | | | | | | 108 | |
| | | | 514-00042 | PEDESTRIAN RAILING (42 INCH) | LF | 42 | | | | | | | | | | 42 | |
| | | | 515-00120 | WATERPROOFING (MEMBRANE) | SY | 2,436 | | | | | | | | | | 2,436 | |
| | | | 601-01000 | CONCRETE CLASS B | CY | 3 | | | | | | | | | | 3 | |
| | | | 601-03000 | CONCRETE CLASS D | CY | 77 | | | | | | | | | | 77 | |
| | | | 601-03030 | CONCRETE CLASS D (BOX CULVERT) | CY | 1,374 | | | | | | | | | | 1,374 | |
| | | | 601-03040 | CONCRETE CLASS D (BRIDGE) | CY | 73 | | | | | | | | | | 73 | |
| | | | 601-03050 | CONCRETE CLASS D (WALL) | CY | 181 | | | | | | | | | | 181 | |
| | | | 602-00000 | REINFORCING STEEL | LB | 260,052 | | | | | | | | | | 260,052 | |
| | | | 602-00020 | REINFORCING STEEL (EPOXY COATED) | LB | 56,442 | | | | | | | | | | 56,442 | |
| | | | 603-01185 | 18 INCH REINFORCED CONCRETE PIPE (COMPLETE IN PLACE) | LF | 1,672 | | | | | | | | | | 1,672 | |
| | | | 603-01245 | 24 INCH REINFORCED CONCRETE PIPE (COMPLETE IN PLACE) | LF | 499 | | | | | | | | | | 499 | |
| | | | 603-01365 | 36 INCH REINFORCED CONCRETE PIPE (COMPLETE IN PLACE) | LF | 40 | | | | | | | | | | 40 | |
| | | | 603-02365 | 45X29 INCH REINFORCED CONCRETE PIPE ELLIPTICAL (COMPLETE IN PLACE) | LF | 192 | | | | | | | | | | 192 | |
| | | | 603-05018 | 18 INCH REINFORCED CONCRETE END SECTION | EACH | 74 | | | | | | | | | | 74 | |
| | | | 603-05024 | 24 INCH REINFORCED CONCRETE END SECTION | EACH | 17 | | | | | | | | | | 17 | |
| | | | 603-05036 | 36 INCH REINFORCED CONCRETE END SECTION | EACH | 2 | | | | | | | | | | 2 | |
| | | | 603-05136 | 45X29 INCH REINFORCED CONCRETE END SECTION ELLIPTICAL | EACH | 1 | | | | | | | | | | 1 | |
| | | | 603-10180 | 18 INCH CORRUGATED STEEL PIPE | LF | 45 | | | | | | | | | | 45 | |
| | | | 603-10240 | 24 INCH CORRUGATED STEEL PIPE | LF | 30 | | | | | | | | | | 30 | |
| | | | 603-10300 | 30 INCH CORRUGATED STEEL PIPE | LF | 184 | | | | | | | | | | 184 | |
| | | | 603-10420 | 42 INCH CORRUGATED STEEL PIPE | LF | 50 | | | | | | | | | | 50 | |
| | | | 603-15024 | 24 INCH EQUIVALENT CORRUGATED STEEL PIPE ARCH | LF | 160 | | | | | | | | | | 160 | |
| | | | 603-30024 | 24 INCH STEEL END SECTION | EACH | 1 | | | | | | | | | | 1 | |
| | | | 603-30030 | 30 INCH STEEL END SECTION | EACH | 2 | | | | | | | | | | 2 | |
| | | | 603-30042 | 42 INCH STEEL END SECTION | EACH | 2 | | | | | | | | | | 2 | |
| | | | 603-31324 | 24 INCH EQUIVALENT ARCH STEEL END SECTION | EACH | 2 | | | | | | | | | | 2 | |
| | | | 603-50015 | 15 INCH PLASTIC PIPE | LF | 2,325 | | | | | | | | | | 2,325 | |
| | | | 603-71610 | 16X10 FOOT CONCRETE BOX CULVERT (PRECAST) | LF | 274 | | | | | | | | | | 274 | |
| | | | 604-00305 | INLET TYPE C (5 FOOT) | EACH | 8 | | | | | | | | | | 8 | |
| | | | 604-00505 | INLET TYPE D (5 FOOT) | EACH | 2 | | | | | | | | | | 2 | |
| | | | 604-13005 | INLET TYPE 13 (5 FOOT) | EACH | 28 | | | | | | | | | | 28 | |
| | | | 604-30005 | MANHOLE SLAB BASE (5 FOOT) | EACH | 1 | | | | | | | | | | 1 | |
| | | | 604-30010 | MANHOLE SLAB BASE (10 FOOT) | EACH | 2 | | | | | | | | | | 2 | |
| | | | 606-00302 | GUARDRAIL TYPE 3 (31 INCH MIDWEST GUARDRAIL SYSTEM) | LF | 2,763 | | | | | | | | | | 2,763 | |
| | | | 606-01340 | END ANCHORAGE TYPE 3D | EACH | 3 | | | | | | | | | | 3 | |
| | | | 606-02003 | END ANCHORAGE (NONFLARED) | EACH | 6 | | | | | | | | | | 6 | |

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| All seals for this set of drawings are applied to the cover page(s) | Print Date: 6/29/2022 | Sheet Revisions | | |  | As Constructed | | CD 119 BIKEWAY | | | | Project No./Code | |
| | File Name: 115_21015_GN_SAQ_2.dgn | Date: | Comments | Init. | | No Revisions: | SUMMARY OF APPROXIMATE QUANTITIES | | | | | | |
| | Horiz. Scale: Vert. Scale: As Noted | | | | | Revised: | Designer: DKH | Structure Numbers | | | | | |
| | Unit Information | | | | | Void: | Detailer: PDP | Subset Sheets: 2 of 4 | Sheet Number 7 | | | | |
|  | | | | | Sheet Subset: SAQ | | | | | | | | |

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| INDEX | | | CONTRACT ITEM NO. | CONTRACT ITEM | UNIT | BIKEWAY | | | | | | | | | | PROJECT TOTALS | |
|-------|------|-------|-------------------|---|------|---------|-----------|------|-----------|------|-----------|------|-----------|------|-----------|----------------|-----------|
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| | | | 607-11525 | FENCE (PLASTIC) | LF | 500 | | | | | | | | | | 500 | |
| | | | 607-55110 | SAFETY RAIL (CABLE) | LF | 151 | | | | | | | | | | 151 | |
| | | | 608-00000 | CONCRETE SIDEWALK | SY | 586 | | | | | | | | | | 586 | |
| | | | 608-00010 | CONCRETE CURB RAMP | SY | 31 | | | | | | | | | | 31 | |
| | | | 608-00024 | CONCRETE BIKEWAY (4 INCH) | SY | 1,496 | | | | | | | | | | 1,496 | |
| | | | 608-00026 | CONCRETE BIKEWAY (6 INCH) | SY | 68,408 | | | | | | | | | | 68,408 | |
| | | | 608-00350 | CONCRETE SIDEWALK (COLORED) | SY | 4 | | | | | | | | | | 4 | |
| | | | 609-21010 | CURB AND GUTTER TYPE 2 (SECTION I-B) | LF | 2,798 | | | | | | | | | | 2,798 | |
| | | | 609-21020 | CURB AND GUTTER TYPE 2 (SECTION II-B) | LF | 8,772 | | | | | | | | | | 8,772 | |
| | | | 609-24002 | GUTTER TYPE 2 (2 FOOT) | LF | 694 | | | | | | | | | | 694 | |
| | | | 613-00125 | 1-1/4 INCH ELECTRICAL CONDUIT | LF | 1,920 | | | | | | | | | | 1,920 | |
| | | | 613-01125 | 1-1/4 INCH ELECTRICAL CONDUIT (PLASTIC) | LF | 140 | | | | | | | | | | 140 | |
| | | | 613-01200 | 2 INCH ELECTRICAL CONDUIT (PLASTIC) | LF | 3,000 | | | | | | | | | | 3,000 | |
| | | | 613-01300 | 3 INCH ELECTRICAL CONDUIT (PLASTIC) | LF | 650 | | | | | | | | | | 650 | |
| | | | 613-07001 | TYPE ONE PULL BOX | EACH | 19 | | | | | | | | | | 19 | |
| | | | 613-07002 | TYPE TWO PULL BOX | EACH | 8 | | | | | | | | | | 8 | |
| | | | 613-10000 | WIRING | LS | 1 | | | | | | | | | | 1 | |
| | | | 613-13002 | LUMINAIRE (LED) (2,000 LUMENS) | EACH | 14 | | | | | | | | | | 14 | |
| | | | 613-13004 | LUMINAIRE (LED) (4,000 LUMENS) | EACH | 10 | | | | | | | | | | 10 | |
| | | | 613-13006 | LUMINAIRE (LED) (6,000 LUMENS) | EACH | 158 | | | | | | | | | | 158 | |
| | | | 613-30005 | LIGHT STANDARD AND LUMINAIRE (PEDESTRIAN) | EACH | 3 | | | | | | | | | | 3 | |
| | | | 613-32300 | LIGHT STANDARD STEEL (30 FOOT) | EACH | 10 | | | | | | | | | | 10 | |
| | | | 613-40000 | CONCRETE FOUNDATION PAD | EACH | 13 | | | | | | | | | | 13 | |
| | | | 613-40010 | LIGHT STANDARD FOUNDATION | EACH | 19 | | | | | | | | | | 19 | |
| | | | 613-50100 | LIGHTING CONTROL CENTER | EACH | 13 | | | | | | | | | | 13 | |
| | | | 613-50210 | TEMPORARY LIGHTING | LS | 1 | | | | | | | | | | 1 | |
| | | | 614-00011 | SIGN PANEL (CLASS I) | SF | 322 | | | | | | | | | | 322 | |
| | | | 614-00214 | STEEL SIGNPOST (1.75X1.75 INCH TUBING) | LF | 485 | | | | | | | | | | 485 | |
| | | | 614-81XXX | TRAFFIC SIGNAL EQUIPMENT (AIRPORT ROAD) | LS | 1 | | | | | | | | | | 1 | |
| | | | 614-81165 | TRAFFIC SIGNAL-LIGHT POLE STEEL (1-65 FOOT MAST ARM) | EACH | 1 | | | | | | | | | | 1 | |
| | | | 620-00002 | FIELD OFFICE (CLASS 2) | EACH | 1 | | | | | | | | | | 1 | |
| | | | 620-00012 | FIELD LABORATORY (CLASS 2) | EACH | 1 | | | | | | | | | | 1 | |
| | | | 620-00020 | SANITARY FACILITY | EACH | 1 | | | | | | | | | | 1 | |
| | | | 622-00720 | PUMP STATION | LS | 6 | | | | | | | | | | 6 | |
| | | | 625-00000 | CONSTRUCTION SURVEYING | LS | 1 | | | | | | | | | | 1 | |
| | | | 626-00000 | MOBILIZATION | LS | 1 | | | | | | | | | | 1 | |
| | | | 626-0111X | PUBLIC INFORMATION MANAGEMENT (TIER X) | DAY | 260 | | | | | | | | | | 260 | |
| | | | 627-00008 | MODIFIED EPOXY PAVEMENT MARKING | GAL | 2 | | | | | | | | | | 2 | |
| | | | 627-30405 | PREFORMED THERMOPLASTIC PAVEMENT MARKING (WORD- SYMBOL) | SF | 465 | | | | | | | | | | 465 | |

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Print Date: 6/29/2022
 File Name: 115_21015_GN_SAQ_3.dgn
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 Unit Information

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| As Constructed |
| No Revisions: |
| Revised: |
| Void: |

CD 119 BIKEWAY
SUMMARY OF APPROXIMATE QUANTITIES
 Designer: DKH Structure Numbers
 Detailer: PDP
 Sheet Subset: SAQ Subset Sheets: 3 of 4

Project No./Code
 Sheet Number **8**

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| INDEX | | | CONTRACT ITEM NO. | CONTRACT ITEM | UNIT | BIKEWAY | | | | | | | | PROJECT TOTALS | | |
|-------|------|-------|-------------------|--|------|---------|-----------|------|-----------|------|-----------|------|-----------|----------------|-----------|-------|
| BOOK | PAGE | SHEET | | | | PLAN | AS CONST. | PLAN | AS CONST. | PLAN | AS CONST. | PLAN | AS CONST. | PLAN | AS CONST. | TOTAL |
| | | | 627-30410 | PREFORMED THERMOPLASTIC PAVEMENT MARKING (XWALK-STOP LINE) | SF | 467 | | | | | | | | | 467 | |
| | | | 628-00140 | BRIDGE GIRDER AND DECK UNIT (140 FEET TO 145 FEET) | EACH | 1 | | | | | | | | | 1 | |
| | | | 628-00170 | BRIDGE GIRDER AND DECK UNIT (165 FEET TO 170 FEET) | EACH | 1 | | | | | | | | | 1 | |
| | | | 630-0000X | CONSTRUCTION TRAFFIC CONTROL | LS | 1 | | | | | | | | | 1 | |
| | | | 700-70010 | F/A MINOR CONTRACT REVISIONS | F A | 1 | | | | | | | | | 1 | |
| | | | 700-70016 | F/A FUEL COST ADJUSTMENT | F A | 1 | | | | | | | | | 1 | |
| | | | 700-70019 | F/A ASPHALT CEMENT COST ADJUSTMENT | F A | 1 | | | | | | | | | 1 | |
| | | | 700-70082 | F/A FURNISH & INSTALL ELECTRICAL SERVICE | F A | 1 | | | | | | | | | 1 | |
| | | | 700-70100 | F/A RELOCATE UTILITIES | F A | 1 | | | | | | | | | 1 | |
| | | | 700-70380 | F/A EROSION CONTROL | F A | 1 | | | | | | | | | 1 | |
| | | | 700-70589 | F/A ENVIRONMENTAL HEALTH & SAFETY MANAGEMENT | F A | 1 | | | | | | | | | 1 | |

All seals for this set of drawings are applied to the cover page(s)

Print Date: 6/29/2022
 File Name: 115_21015_GN_SAQ_4.dgn
 Horiz. Scale: Vert. Scale: As Noted
 Unit Information

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| As Constructed |
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CD 119 BIKEWAY
SUMMARY OF APPROXIMATE QUANTITIES
 Designer: DKH
 Detailer: PDP
 Sheet Subset: SAQ
 Structure Numbers: Subsets Sheets: 4 of 4

| |
|-----------------------|
| Project No./Code |
| Sheet Number 9 |

TO ESTABLISH GEOMETRIC CONTROL FOR THE CONSTRUCTION OF THIS PROJECT, THE DEPARTMENT HAS PROVIDED THE FOLLOWING INFORMATION:

| Format * | |
|--|--------------------|
| <input type="checkbox"/> 3D Design Modeling Electronic Files | _____ |
| <input checked="" type="checkbox"/> Horizontal Control | <u>PLAN SHEETS</u> |
| <input checked="" type="checkbox"/> Vertical Control | <u>PLAN SHEETS</u> |
| <input checked="" type="checkbox"/> Roadway Alignment | <u>PLAN SHEETS</u> |
| <input checked="" type="checkbox"/> Original Terrain Data | <u>PLAN SHEETS</u> |
| <input type="checkbox"/> Other: | _____ |

* Specify the information format, i.e., plan sheet, computer disk, computer printout, or other. The information marked is either contained on the plans or is available from the Engineer.

TYPE OF PROJECT

- | | |
|---|--|
| <input type="checkbox"/> Landscaping | <input type="checkbox"/> Major Reconstruction |
| <input type="checkbox"/> Signalization | <input type="checkbox"/> New Roadway Construction |
| <input type="checkbox"/> Safety Improvement | <input type="checkbox"/> Bridge Replacement |
| <input type="checkbox"/> Asphalt Overlay | <input type="checkbox"/> Bridge Widening |
| <input type="checkbox"/> Concrete Overlay | <input type="checkbox"/> New Bridge |
| <input type="checkbox"/> Minor Widening | <input checked="" type="checkbox"/> Other: <u>BIKEWAY CONSTRUCTION</u> |

SURVEY WORK TO BE PERFORMED BY OTHERS: _____

WORK PERFORMED BY THE CONTRACTOR'S SURVEYOR UNDER SECTION 625:

- A complete passing Base Line report (completed within 6 months prior to the start of the project)
- An instrument calibration Certification (completed within 6 months prior to the start of the project)
- Establish and Maintain Project Centerline or Engineer Approved Offset Line(s)
- Verification and Maintenance of Horizontal and Vertical Control
- Verify or Determine existing grades and alignments
- Verify or Determine existing topography
- Clearing and Grubbing Limits (Section 201)
- Removal Limits (Section 202)
- Reset Items (Section 210)
- Excavation and Embankment (Section 203)

- Excavation
 - Unclassified
 - Stripping
 - Muck
 - Rock
 - Borrow
 - Other: _____
 - Potholing

- Embankment
 - Site Grading
 - Erosion Control (Perm)
 - Other: _____
- As Staked Earthwork Quantities (See General Notes)

- Landscaping
 - Top Soil (Section 207)
 - Seeding (Section 212)
 - Mulching (Section 213)
 - Planting (Section 214)
 - Herbicide (Section 217)
 - Other: _____
- Erosion Control (Section 208)
 - Seeding (Temp)
 - Silt Fence
 - Erosion Bales
 - Erosion Logs
 - Riprap (Temp)
 - Other: _____

- Roadway Bases
 - Untreated Subgrade
 - Treated Subgrade
 - Aggregate Base Course (Section 304)
 - Reconditioning
 - PMBB - Plant Mix Bituminous Base
 - Other: _____

| | Slope Staking (Y/N) | Grid (Y/N) | Grade (Y/N) | Special Interval |
|------------|---------------------|------------|-------------|------------------|
| Excavation | - | - | - | - |
| | - | - | - | - |
| | - | - | - | - |
| | - | - | - | - |

| | Slope Staking (Y/N) | Grid (Y/N) | Grade (Y/N) | Special Interval |
|------------|---------------------|------------|-------------|------------------|
| Embankment | - | - | - | - |
| | - | - | - | - |
| | - | - | - | - |
| | - | - | - | - |

| | Grid (Y/N) | Grade (Y/N) | Special Interval | Special Offset |
|---------------|------------|-------------|------------------|----------------|
| Roadway Bases | - | - | - | - |
| | - | - | - | - |
| | - | - | - | - |
| | - | - | - | - |

- Pavements
 - HMA - Hot Mix Asphalt (Section 403)
 - Concrete (Section 412)
 - Heating & Scarifying Treatment
 - Prime Coat, Tack Coat & Rejuvenating Agent (Section 407)
 - Seal Coat or Chip Seal (Section 409)
 - Other: _____

- Roadway Elements
 - Curb and Gutter (Section 609)
 - Drop inlets - alignment and grades (Section 604)
 - Retaining Walls
 - Guard Rail (Section 606)
 - Sidewalk (Section 608)
 - Overlay Stationing
 - Other: _____

- Riprap (Perm) (Section 506)
- Slope and Ditch Paving (Section 507)
- Minor Structures
 - Structure Excavation limits (Section 206)
 - Culverts (Section 603)
 - Culverts w/ Headwalls and Wingwalls (Section 601)
 - Concrete Box Culverts w/ Headwalls and Wingwalls
 - Pipes (Section 603)
 - Sanitary Sewer
 - Storm Sewer
 - Water
 - Irrigation
 - Miscellaneous
 - Manholes (Section 604)
 - Inlets (Section 604)
 - Permanent Water Quality BMP (Section 208)
 - Other: _____

- Major Structures - Overhead Signs (Section 614), Concrete Box Culverts, Bridges - and all other structures assigned a structure number
 - Structure Excavation limits (Section 206)
 - Concrete Box Culverts (Section 603) w/ Headwalls and Wingwalls (Section 601)
 - Piling locations and cut off elevations (Section 502)
 - Caisson locations and elevations (Section 503)
 - Footing locations, alignment, and elevations
 - Abutment/Pier locations, alignment, and elevations
 - Wingwall skew angles/offsets
 - Structural concrete form locations
 - Substructure As-constructed survey required for Bridges (Subsection 601 .12) and Overhead signs (S-614-50)
 - Bridge expansion joint(s) alignment and grade (longitudinal and transverse)
 - Deck grades at Girder 10th or "n" th point locations and elevations
 - Slope and Ditch Paving (Section 507)
 - Other: _____

- Fencing (Section 607)
 - Temporary
 - Permanent
 - Sound Barrier
 - Other: _____

- Delineators (Section 612)
 - Temporary
 - Permanent

- Lighting (Section 613) and Traffic Control Devices (Permanent) (Section 614)
 - Signal pole locations and elevations
 - Light pole locations and elevations
 - Sign locations
 - Field verify sign post locations, elevations, and lengths before fabrication.
 - Other: _____

| Pavements | (Y/N) | Interval | Offset |
|-----------|-------|----------|--------|
| | - | - | - |
| - | - | - | |
| - | - | - | |
| - | - | - | |
| - | - | - | |

| Curb & Gutter | Tangent Interval | Curve Interval | Special Offset |
|---------------|------------------|----------------|----------------|
| | - | - | - |

| Stationing | Left Interval | Center Interval | Right Interval |
|------------|---------------|-----------------|----------------|
| | - | - | - |

- Pavement Marking (Section 627)
 - Striping (Temp)
 - Striping (Perm)
 - Symbols
 - Other: _____
- Temporary Lighting and Construction Traffic Control Devices (Section 630)
 - Signal pole locations and elevations (Temp)
 - Light pole locations and elevations (Temp)
 - Sign Locations (Temp)
 - Other: _____
- All Easements (Temp Staking by P.L.S. Only)
- Right of Way (Temp Staking by P.L.S. Only)

WORK PERFORMED BY THE CONTRACTOR'S SURVEYOR UNDER SECTION 629:

- Monumentation (Section 629)
 - Control
 - Right of Way
 - Land corners, Aliquot corners
 - Easements
 - Reference the specified existing monuments: ** _____
 - Replace the specified existing monuments: ** _____
 - Locate monuments. It is estimated _____ hours are required.

NOTE: All 629 items shall include adequate research, calculations, and evaluations of evidence for monuments to be set.

** A Tabulation of Survey Monuments may be provided on the plans.

GENERAL NOTES:

1. Unless indicated otherwise on this Survey Tabulation Sheet, all survey work and staking intervals shall be done in accordance with the latest edition of the CDDT Survey Manual.
2. Adequate information for establishing lines, grades, and locations for all work items have been specified on the plans. Any additional information required to stake the item or element shall be generated by the Contractor's surveyor.
3. The Contractor's surveyor shall provide an estimate of the man-hours necessary to complete the work items indicated on this sheet. A copy of this sheet, with the estimated man-hours written on the blank line to the left of the specified items, shall be submitted with the Survey Schedule to the Engineer 5 days prior to the Presurvey Conference - Construction Survey.
4. Stakes and Monuments which are damaged or destroyed by the progress of construction shall be replaced by the Contractor at no additional cost to the Department.
5. The Contractor shall furnish an As Staked (or 3D Design Modeling Electronic Files) Earthwork Quantity report to the Engineer prior to completion of twenty percent (20%) of the planned earthwork in any phase as per the CDDT Survey Manual. A printed copy of the As Staked (or 3D Design Modeling Electronic Files) Earthwork data report and a computer disk with that information on it, in the specified format shall be submitted to the Engineer. The Contractor shall field verify original ground cross sections at a maximum 500 feet intervals.
6. Prior to beginning work on any subsequent operation, such as placing base course or paving, the Contractor shall certify in writing to the Engineer that the final grade is within specified tolerance.
7. The Contractor's surveyor shall perform all field surveying and calculations necessary to tie plan grades into field grades.
8. The Contractor shall coordinate construction staking on the project with any utility work.
9. Fieldbooks shall contain daily records of points set and or measurements observed. The information recorded shall contain: date, crew members' names, point no., description, staking information, and sketches. If the survey information is collected electronically, information recorded shall be provided to the Project Engineer in a hard copy format that is intuitive, clear and related to the supplemental information recorded in the field books. All linear surveys, such as slope stakes and blue tops, shall have the station and offset information related to the measured information. Non-linear surveys such as structures staking shall have sketches relating electronic information, such as point numbers, to the sketch.
10. The Contractor's surveyor shall submit the following fieldbooks to the Engineer:
 - Horizontal Control (Primary & Secondary)
 - Vertical Control (i.e. Benchmarks)
 - Property Pin Ties
 - Horizontal Alignment
 - Grading
 - Slope Staking
 - Minor Structures
 - Major Structures
 - One fieldbook for each work category shown on this sheet
 - Other Fieldbook(s): _____
11. The Contractor's surveyor shall submit the following (prior to surveying on the project) to the Engineer:
 - All required Instrument Calibrations

| | | | | | | | | | | |
|---|---|-----------------|----------|-------|---|----------------|-------------------|-----------------------|-----------------|------------------|
| All seals for this set of drawings are applied to the cover page(s) | Print Date: 6/28/2022 | Sheet Revisions | | |  | As Constructed | CD 119 BIKEWAY | | | Project No./Code |
| | File Name: 120_21015_GN_Surv Tab.dgn | Date: | Comments | Init. | | No Revisions: | SURVEY TABULATION | | | |
| | Horiz. Scale: _____ Vert. Scale: As Noted | | | | | Revised: | Designer: DKH | Structure Numbers | | |
| | Unit Information | | | | | Void: | Detailer: PDP | Subset Sheets: 1 of 1 | Sheet Number 10 | |
| |  | | | | | | | | | |

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Colorado Department of Transportation
 10601 West 10th Street
 Greeley, CO 80634
 Phone: 970-350-2173

Region 4 MDG

| Sheet Revisions | | | Sheet Revisions | | | Sheet Revisions | | |
|-----------------|-------------|----------|-----------------|-------------|----------|-----------------|-------------|----------|
| Date | Description | Initials | Date | Description | Initials | Date | Description | Initials |
| mm/dd/yy | XXXXXXXX | XXX | mm/dd/yy | XXXXXXXX | XXX | mm/dd/yy | XXXXXXXX | XXX |
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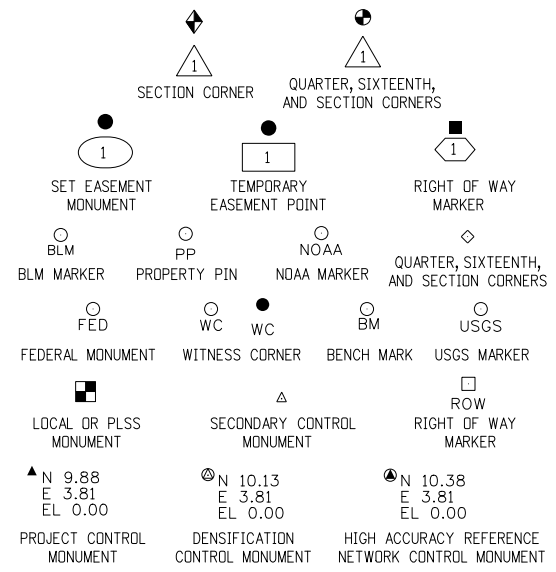
| Project Control Diagram | | | |
|--|----------------|--------------|-----------|
| Title Sheet | | | |
| Project Number: STA 1191-033 | | | |
| Project Location: SH119: Safety Ops & Mobility Impvts. | | | |
| Project Code: | Last Mod. Date | Subset | Sheet No. |
| 21497 | 11-30-2021 | 3.01 to 3.05 | 3.01 |

DEPARTMENT OF TRANSPORTATION STATE OF COLORADO

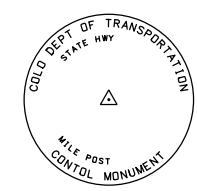
PROJECT CONTROL DIAGRAM
 State Highway 119 MP 44.24 to 17.00
 Section 2,3,9,10,15,16,20,21
 Township 1 North, Range 70 West
 Section 25,35,36
 Township 2 North, Range 70 West
 Section 16,17,19,20,30
 Township 2 North, Range 69 West
 of the 6th Principal Meridian
 County of Boulder

SURVEYOR STATEMENT (PROJECT CONTROL DIAGRAM)

I, Mark Leroy Angell, a professional land surveyor licensed in the State of Colorado, do hereby state to the Colorado Department of Transportation this Project Control Diagram was prepared and the field survey it represents was performed under my responsible charge and, based upon my knowledge, information and belief is in accordance with applicable standards of practice defined by Colorado Department of Transportation publications. This statement is not a guaranty or warranty, either expressed or implied.



Note: For a complete listing of symbolology used within this set of plans, please refer to the M-100-1 Standard Symbols of the Colorado Department of Transportation M&S Standards Publication. Existing features are shown as screened weight (gray scale). Proposed or new features are shown as full weight without screening.

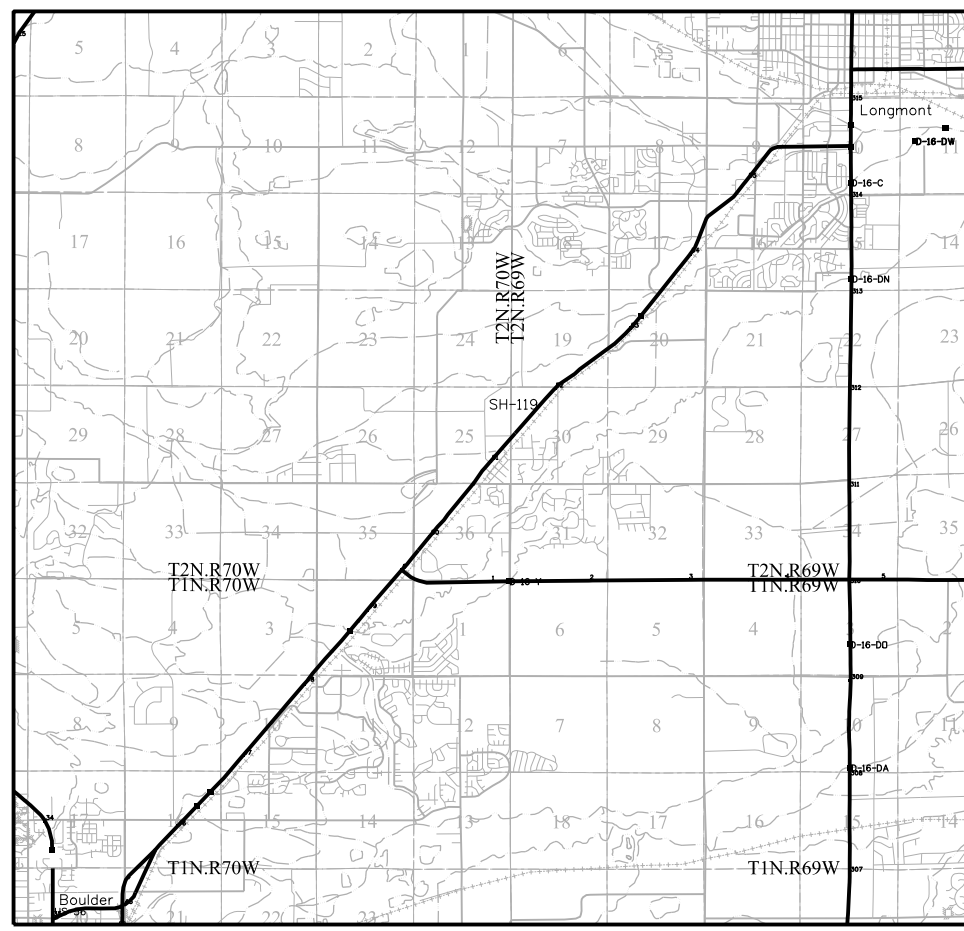


Typical Control Monument Cap
Not to Scale

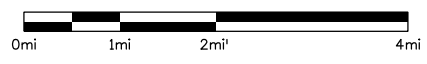
▲ CM-MP - Control Point Monuments set by CDOT. They are CDOT Type 2 monuments, a 3/4" dia. aluminum control monument cap (as shown) on a 3' x 3/4" dia. aluminum security rod on a 3' x 3/4" dia. smooth aluminum rod.

General Notes:

1. This Project Control Diagram is not a boundary survey of the adjoining property and is prepared for the Colorado Department of Transportation purposes only.
2. This plan set is subject to change and may not be the most current set. It is the user's responsibility to verify with CDOT that this set is the most current. The information contained on the attached drawing is not valid unless this copy bears an original signature of the Professional Land Surveyor hereon named.
3. Refer to the M-629-1 Survey Monuments of the Standard Plans found in The Colorado Department of Transportation, M & S Standards for typical survey monument descriptions.



PROJECT LOCATION MAP



Basis of Bearings: Bearings used in the calculations of coordinates are based on a grid bearing of N 34° 51'19" E from the Control Monument "C 119 MP49.50" (NGS Deep Rod in Logo Box, MP 49.50), Section 35, Township 2 North, Range 70 West, Sixth P.M. and the Control Monument "D 454" (NGS Deep Rod in Logo Box, MP 50.08), Section 36, Township 2 South, Range 70 West, Sixth P.M. as obtained from a Global Positioning System (GPS) survey based on the National Spatial Reference System (NSRS).

Basis of Elevations: Project elevations are GPS derived, using GEOID 18, based on a NAVD 88 elevation of 1563.898m on NGS Benchmark "D 454" (Stamped "D454 2003" NGS stainless steel rod in logo box).

COORDINATE DATUM: Project coordinates are modified Colorado State Plane North Zone NAD 83(2011) coordinates. The project seed point (C 119 MP49.50 Reset) coordinates are: Northing = 388658.802m, Easting = 240820.825, and Elevation = 1554.654m. The ground scale factor used to modify the coordinates is 1.00028304970695. Project Coordinates are truncated by 300,000m in the Northing and 900,000m in the Easting.

To get from Project to State Plane coordinates: convert project coordinates to metric, add the truncation, subtract the seed point northing and easting, divide by the ground scale factor, then add the seed point northing and easting.

NOTICE: According to Colorado law you must commence any legal action based upon any defect in this survey within three years after you first discover such defect. In no event may any action based upon any defect in this survey be commenced more than ten years from the date of the certification shown hereon.

| SHEET NO. | INDEX OF SHEETS |
|-----------|-----------------------|
| 3.01-3.01 | (1) Title Sheet |
| 3.02-3.02 | (1) Coordinate Tables |
| 3.03-3.05 | (3) Plan Sheet |
| <hr/> | |
| | (5) Total Sheets |

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Region 4 MDG

| Sheet Revisions | | | Sheet Revisions | | | Sheet Revisions | | |
|-----------------|-------------|----------|-----------------|-------------|----------|-----------------|-------------|----------|
| Date | Description | Initials | Date | Description | Initials | Date | Description | Initials |
| mm/dd/yy | XXXXXXXX | XXX | mm/dd/yy | XXXXXXXX | XXX | mm/dd/yy | XXXXXXXX | XXX |
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| Project Control Diagram | | | |
|--|----------------|--------------|-----------|
| Coordinate Tables | | | |
| Project Number: STU 119A-071 | | | |
| Project Location: SH119: Safety Ops & Mobility Impvts. | | | |
| Project Code: | Last Mod. Date | Subset | Sheet No. |
| 21497 | 11-30-2021 | 3.01 to 3.05 | 3.02 |

CHARN GEODETIC COORDINATE TABLE

(adjusted field data) (meters)

| NAME | COORDINATES NAD 83(2011) | | ELLIPS. HEIGHT | MAPPING ANGLE | SCALE | NAD 83(2011) ZONE 0501 | | DESCRIPTION |
|--------|--------------------------|--------------------|----------------|---------------|-------------|------------------------|------------|-------------------------------------|
| | LATITUDE | LONGITUDE | | | | NORTHING | EASTING | |
| MENDEZ | 40°09'49.14155" N | 105°05'11.75841" W | 1498.203 | 0°16'02" | 0.999957995 | 397072.983 | 949617.662 | NGS Stainless Steel Rod in Logo Box |
| X 438 | 40°02'11.39082" N | 105°14'05.37354" W | 1596.266 | 0°10'17" | 0.999963800 | 382906.662 | 937033.148 | NGS Stainless Steel Rod in Logo Box |
| LEGION | 40°00'55.33018" N | 105°11'25.24543" W | 1617.217 | 0°12'00" | 0.999965239 | 380573.118 | 940837.480 | NGS Brass Cap on Concrete Monument |

PROJECT COORDINATE SUMMARY TABLE (feet)

| NAME | PROJECT COORDINATES | | ELEV. (NAVD 88) | DESCRIPTION |
|---------------------|---------------------|------------|-----------------|--|
| | NORTHING | EASTING | | |
| CM 0052 | 290363.927 | 136680.523 | 5114.460 | CDOT Type 2 Monument SH 52 (MP 00.52) |
| CM 4418 | 271961.819 | 114967.806 | 5326.230 | CDOT Type 5 Monument (MP44.18) |
| CM 4446 | 272558.043 | 116297.325 | 5319.120 | CDOT Type 5 Monument (MP 44.46) |
| CM 4496 | 272757.279 | 119035.617 | 5303.831 | CDOT Type 5 Monument (MP 44.96) |
| CM 4550 | 275099.307 | 119768.369 | 5296.329 | CDOT Type 2 Monument (MP 45.50) |
| Y 453 | 276645.902 | 121199.921 | 5289.025 | NGS Stainless Steel Rod in Logo Box (MP 45.87) |
| CM 4628 | 278086.419 | 122714.243 | 5268.584 | CDOT Type 2 Monument (MP 46.28) |
| Z 453 | 279810.033 | 124193.789 | 5236.390 | NGS Stainless Steel Rod in Logo Box (MP 46.70) |
| CM 9065 | 282015.383 | 126162.705 | 5203.736 | CDOT Type 2 Monument (MP 47.25) |
| A 454 | 282997.791 | 126970.088 | 5195.065 | NGS Stainless Steel Rod in Logo Box (MP 47.52) |
| CM 4793 | 284676.380 | 128210.725 | 5159.154 | CDOT Type 5 Monument (MP 47.93) |
| B 454 | 286421.128 | 129789.789 | 5168.185 | NGS Stainless Steel Rod in Logo Box (MP 48.34) |
| CM 4870 | 287779.841 | 130920.597 | 5138.678 | CDOT Type 5 Monument (MP 48.70) |
| C 454 | 289142.771 | 132108.960 | 5165.898 | NGS Stainless Steel Rod in Logo Box (MP 49.04) |
| C 119 MP49.50 Reset | 290874.752 | 133926.322 | 5154.189 | CDOT Type 2 Monument (MP 49.50) |
| D 454 | 293330.653 | 135636.728 | 5130.889 | NGS Stainless Steel Rod in Logo Box (MP 50.08) |
| CM 9045 | 294561.104 | 136677.979 | 5118.558 | CDOT Type 2 Monument (MP 50.32) |
| CM 5080 | 296404.940 | 138347.045 | 5099.696 | CDOT Type 2 Monument (MP 50.80) |
| CM9040 | 297380.095 | 138957.657 | 5091.162 | CDOT Type 2 Monument (MP 51.14) |
| F 454 | 298976.655 | 140371.896 | 5073.563 | NGS Stainless Steel Rod in Logo Box (MP 51.47) |
| CM 9036 | 300059.357 | 141292.788 | 5063.793 | CDOT Type 2 Monument (MP 51.76) |
| G 454 | 301924.401 | 143200.264 | 5050.443 | NGS Stainless Steel Rod in Logo Box (MP 52.23) |
| CM 5263 | 303291.318 | 144949.691 | 5034.548 | CDOT Type 5 Monument (MP 52.63) |
| CM 9029 | 304618.929 | 146455.359 | 5021.139 | CDOT Type 2 Monument (MP 53.04) |
| J 454 | 306028.453 | 147558.866 | 5014.426 | NGS Stainless Steel Rod in Logo Box (MP 53.37) |
| K 454 | 308332.798 | 149254.910 | 5016.145 | NGS Stainless Steel Rod in Logo Box (MP 53.93) |
| CM 5450 | 310672.455 | 150784.511 | 5002.838 | CDOT Type 5 Monument (MP 54.50) |

GEODETIC COORDINATE TABLE

(adjusted field data) (meters)

| NAME | COORDINATES NAD 83(2011) | | ELLIPS. HEIGHT | MAPPING ANGLE | SCALE | NAD 83(2011) ZONE 0501 | | DESCRIPTION |
|---------------------|--------------------------|--------------------|----------------|---------------|-------------|------------------------|------------|--|
| | LATITUDE | LONGITUDE | | | | NORTHING | EASTING | |
| CM 0052 | 40°05'12.35105" N | 105°10'49.35298" W | 1542.468 | 0°12'23" | 0.999960920 | 388503.146 | 941660.069 | CDOT Type 2 Monument (MP 00.52) SH 52 |
| CM 4418 | 40°02'11.22173" N | 105°15'29.28442" W | 1607.630 | 0°09'23" | 0.999963803 | 382895.759 | 935043.893 | CDOT Type 5 Monument (MP44.18) |
| CM 4446 | 40°02'17.07612" N | 105°15'12.17443" W | 1605.419 | 0°09'34" | 0.999963698 | 383077.437 | 935449.016 | CDOT Type 5 Monument (MP 44.46) |
| CM 4496 | 40°02'18.96780" N | 105°14'36.97017" W | 1600.669 | 0°09'56" | 0.999963664 | 383138.147 | 936283.413 | CDOT Type 5 Monument (MP 44.96) |
| CM 4550 | 40°02'42.08551" N | 105°14'27.46367" W | 1598.362 | 0°10'03" | 0.999963258 | 383851.797 | 936506.693 | CDOT Type 2 Monument (MP 45.50) |
| Y 453 | 40°02'57.32382" N | 105°14'09.00201" W | 1596.093 | 0°10'14" | 0.999962997 | 384323.067 | 936942.907 | NGS Stainless Steel Rod in Logo Box (MP 45.87) |
| CM 4628 | 40°03'11.51078" N | 105°13'49.47806" W | 1589.817 | 0°10'27" | 0.999962759 | 384762.013 | 937404.343 | CDOT Type 2 Monument (MP 46.28) |
| Z 453 | 40°03'28.49481" N | 105°13'30.38769" W | 1579.962 | 0°10'39" | 0.999962480 | 385287.223 | 937855.182 | NGS Stainless Steel Rod in Logo Box (MP 46.70) |
| CM 9065 | 40°03'50.22208" N | 105°13'04.98257" W | 1569.954 | 0°10'56" | 0.999962133 | 385959.225 | 938455.139 | CDOT Type 2 Monument (MP 47.25) |
| A 454 | 40°03'59.90254" N | 105°12'54.56030" W | 1567.290 | 0°11'03" | 0.999961982 | 386258.578 | 938701.160 | NGS Stainless Steel Rod in Logo Box (MP 47.52) |
| CM 4793 | 40°04'16.44690" N | 105°12'38.53658" W | 1556.312 | 0°11'13" | 0.999961728 | 386770.069 | 939079.200 | CDOT Type 5 Monument (MP 47.93) |
| B 454 | 40°04'33.63318" N | 105°12'18.15547" W | 1559.024 | 0°11'26" | 0.999961472 | 387301.719 | 939560.364 | NGS Stainless Steel Rod in Logo Box (MP 48.34) |
| CM 4870 | 40°04'47.01948" N | 105°12'03.55355" W | 1550.001 | 0°11'36" | 0.999961278 | 387715.738 | 939904.937 | CDOT Type 5 Monument (MP 48.70) |
| C 454 | 40°05'00.44500" N | 105°11'48.20956" W | 1558.269 | 0°11'45" | 0.999961086 | 388131.042 | 940267.048 | NGS Stainless Steel Rod in Logo Box (MP 49.04) |
| C 119 MP49.50 Reset | 40°05'17.49443" N | 105°11'24.75661" W | 1554.654 | 0°12'01" | 0.999960850 | 388658.802 | 940820.825 | CDOT Type 2 Monument (MP 49.50) |
| D 454 | 40°05'41.69842" N | 105°11'02.64309" W | 1547.512 | 0°12'15" | 0.999960526 | 389407.150 | 941342.010 | NGS Stainless Steel Rod in Logo Box (MP 50.08) |
| CM 9045 | 40°05'53.81804" N | 105°10'49.19108" W | 1543.729 | 0°12'24" | 0.999960368 | 389782.086 | 941659.294 | CDOT Type 2 Monument (MP 50.32) |
| CM 5080 | 40°06'11.97458" N | 105°10'27.63158" W | 1537.941 | 0°12'38" | 0.999960139 | 390343.929 | 942167.882 | CDOT Type 2 Monument (MP 50.80) |
| CM 9040 | 40°06'21.58659" N | 105°10'19.72914" W | 1535.326 | 0°12'43" | 0.999960021 | 390641.073 | 942353.945 | CDOT Type 2 Monument (MP 51.14) |
| F 454 | 40°06'37.30805" N | 105°10'01.45591" W | 1529.929 | 0°12'54" | 0.999959832 | 391127.568 | 942784.883 | NGS Stainless Steel Rod in Logo Box (MP 51.47) |
| CM 9036 | 40°06'47.97046" N | 105°09'49.55378" W | 1526.930 | 0°13'02" | 0.999959708 | 391457.483 | 943065.493 | CDOT Type 2 Monument (MP 51.76) |
| G 454 | 40°07'06.32431" N | 105°09'24.91602" W | 1522.818 | 0°13'18" | 0.999959499 | 392025.789 | 943646.728 | NGS Stainless Steel Rod in Logo Box (MP 52.23) |
| CM 5263 | 40°07'19.76151" N | 105°09'02.33386" W | 1517.934 | 0°13'33" | 0.999959352 | 392442.308 | 944179.803 | CDOT Type 5 Monument (MP 52.63) |
| CM 9029 | 40°07'32.81879" N | 105°08'42.88845" W | 1513.814 | 0°13'45" | 0.999959212 | 392846.850 | 944638.602 | CDOT Type 2 Monument (MP 53.04) |
| J 454 | 40°07'46.70053" N | 105°08'28.61283" W | 1511.746 | 0°13'54" | 0.999959069 | 393276.352 | 944974.856 | NGS Stainless Steel Rod in Logo Box (MP 53.37) |
| K 454 | 40°08'09.39828" N | 105°08'06.66135" W | 1512.237 | 0°14'09" | 0.999958843 | 393978.519 | 945491.665 | NGS Stainless Steel Rod in Logo Box (MP 53.93) |
| CM 5450 | 40°08'32.45059" N | 105°07'46.84654" W | 1508.153 | 0°14'21" | 0.999958627 | 394691.446 | 945957.757 | CDOT Type 5 Monument (MP 54.50) |

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Colorado Department of Transportation



10601 West 10th Street
Greeley, CO 80634
Phone: 970-350-2173

Region 4

MDG

| Sheet Revisions | | |
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| Right of Way Plans | | | |
|--|----------------|--------------|-----------|
| Land Survey Control Diagram Plan | | | |
| Project Number: STU 119A-071 | | | |
| Project Location: SH119: Safety Ops & Mobility Impvts. | | | |
| Project Code: | Last Mod. Date | Subset | Sheet No. |
| 21497 | 11-30-2021 | 3.01 to 3.05 | 3.03 |



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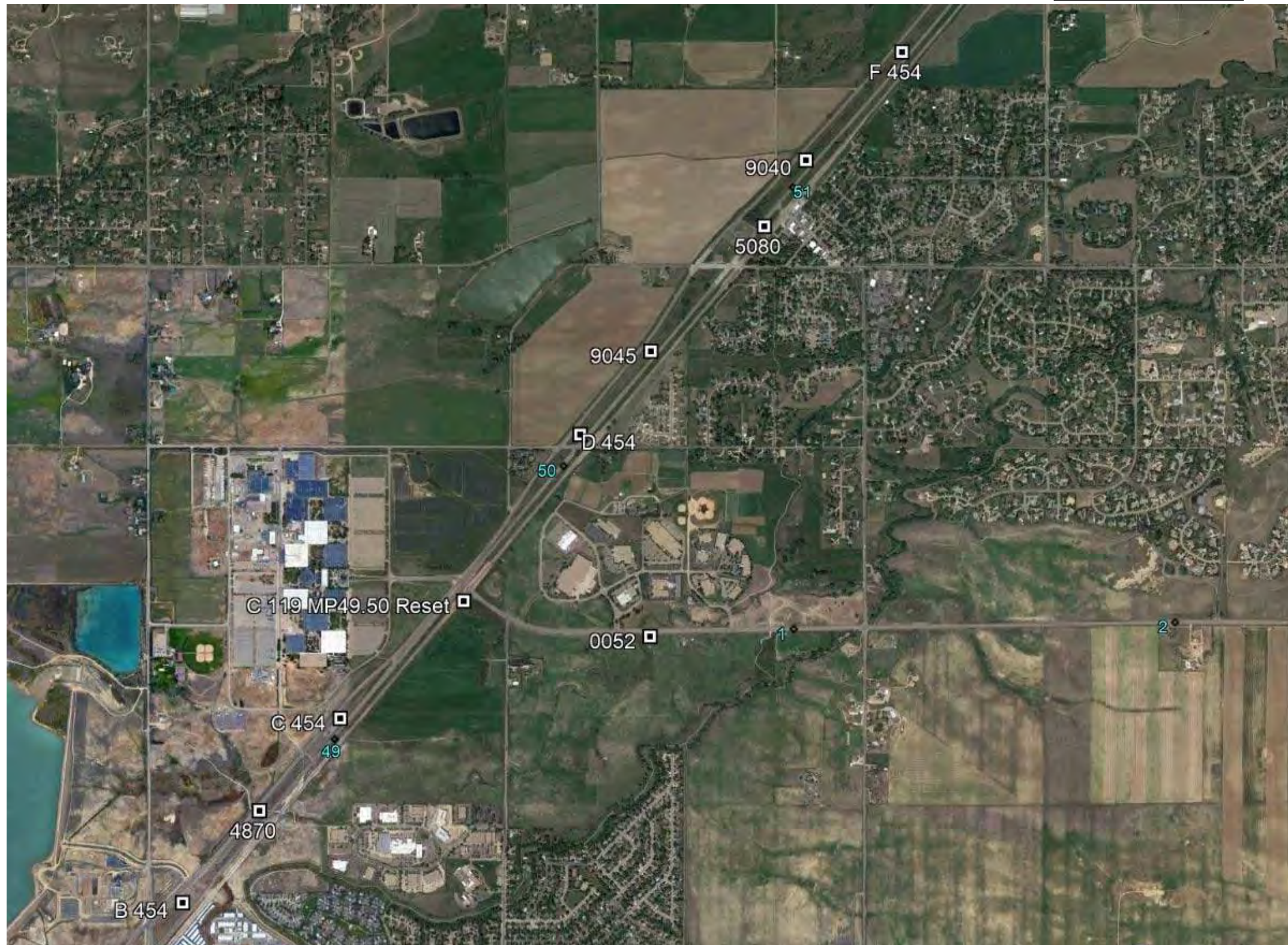
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Right of Way Plans

| | | | |
|--|----------------|--------------|-----------|
| Land Survey Control Diagram Plan | | | |
| Project Number: STU 119A-071 | | | |
| Project Location: SH119: Safety Ops & Mobility Impvts. | | | |
| Project Code: | Last Mod. Date | Subset | Sheet No. |
| 21497 | 11-30-2021 | 3.01 to 3.05 | 3.04 |



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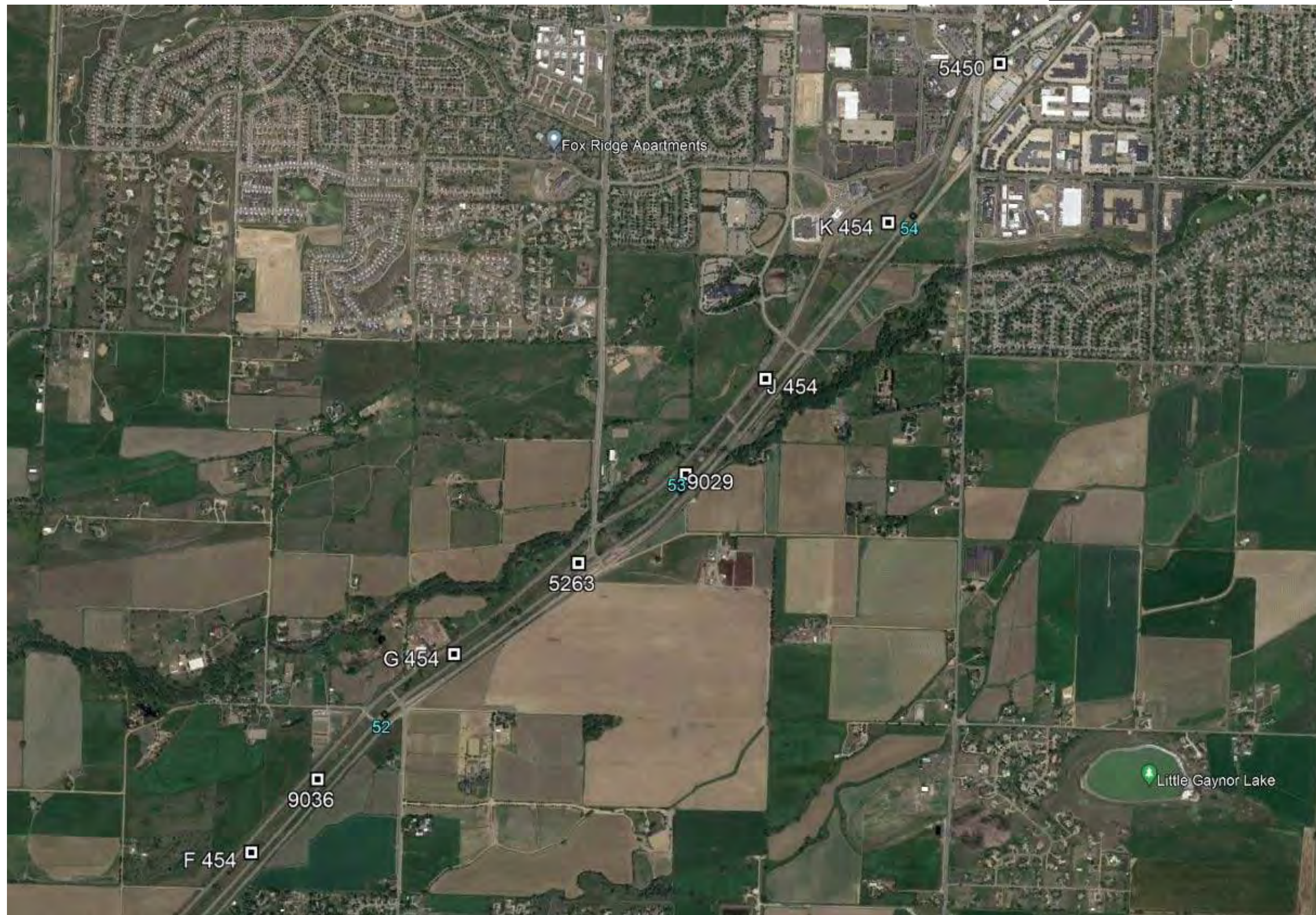
Right of Way Plans

Land Survey Control Diagram Plan

Project Number: STU 119A-071

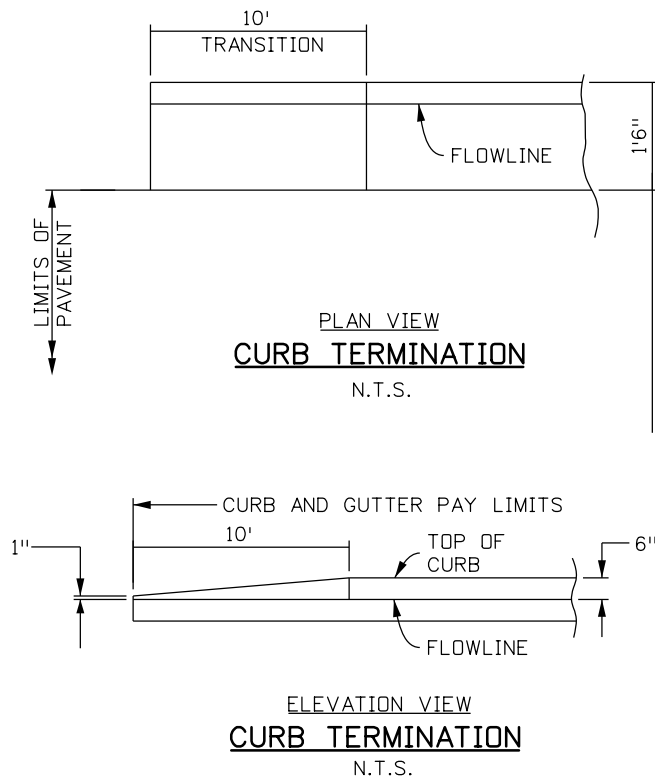
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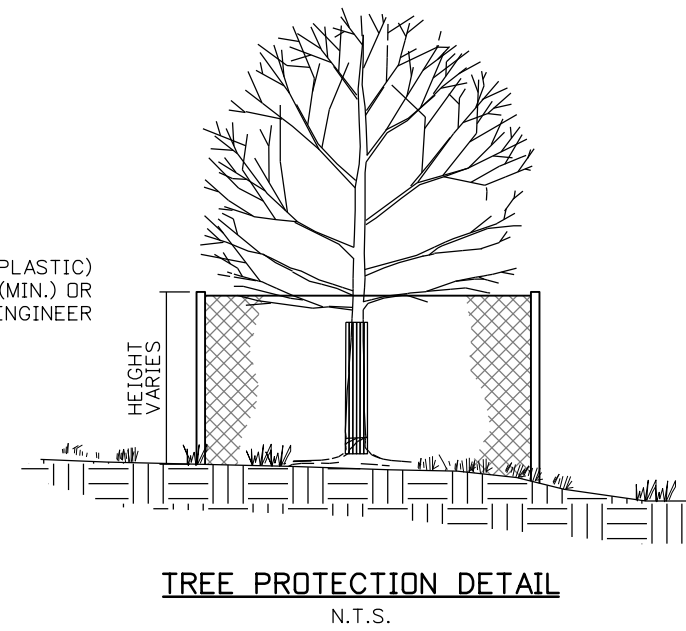


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PROVIDE FENCE (PLASTIC)
AT DRIPLINE (MIN.) OR
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All seals for this set of drawings are applied to the cover page(s)

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| File Name: 130_21015_GN_Misc Details.dgn |
| Horiz. Scale: Vert. Scale: As Noted |
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| CD 119 BIKEWAY | | | |
| MISCELLANEOUS DETAILS | | | |
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| Detailer: | PDP | | |
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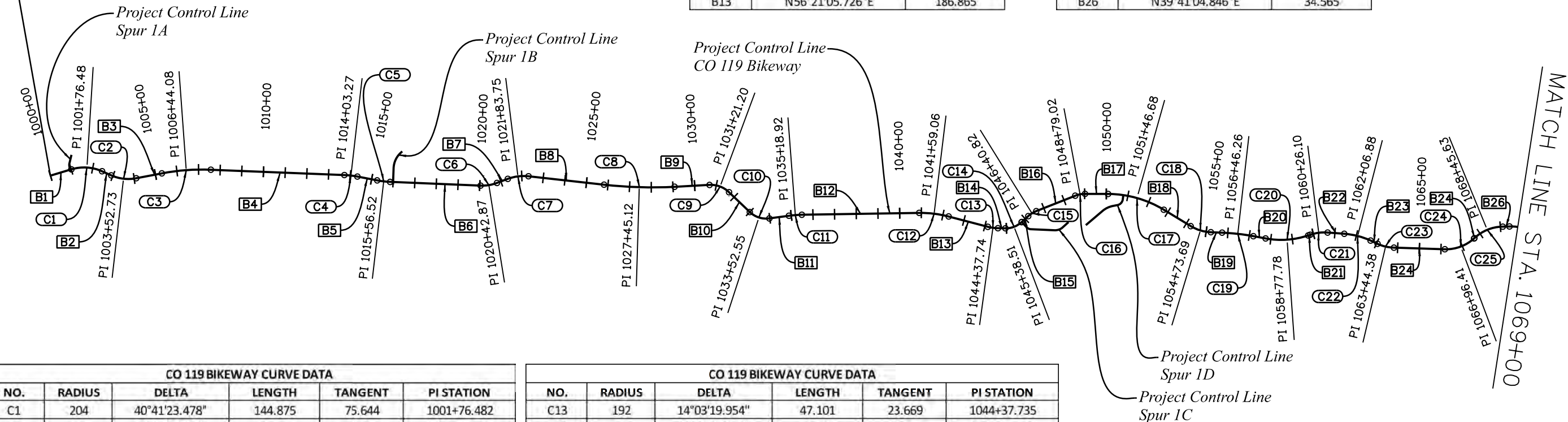
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| Project No./Code |
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| Sheet Number 16 |

NOTE:
SEE BIKE SPUR PLAN SHEETS FOR SPUR GEOMETRY INFORMATION

| CO 119 BIKEWAY CONTROL LINE DATA | | |
|----------------------------------|-----------------|----------|
| NO. | BEARING | DISTANCE |
| B1 | N24°46'36.413"E | 100.838 |
| B2 | N65°27'59.890"E | 46.511 |
| B3 | N30°49'28.429"E | 120.489 |
| B4 | N43°50'25.235"E | 615.773 |
| B5 | N52°30'36.082"E | 92.923 |
| B6 | N43°53'50.827"E | 417.24 |
| B7 | N20°52'35.122"E | 53.329 |
| B8 | N47°54'14.813"E | 350.504 |
| B9 | N38°34'27.095"E | 161.325 |
| B10 | N85°18'42.786"E | 132.348 |
| B11 | N33°48'19.699"E | 91.125 |
| B12 | N40°38'08.499"E | 541.367 |
| B13 | N56°21'05.726"E | 186.865 |

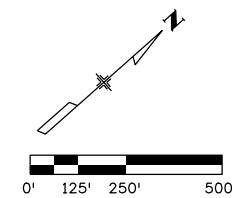
| CO 119 BIKEWAY CONTROL LINE DATA | | |
|----------------------------------|-----------------|----------|
| NO. | BEARING | DISTANCE |
| B14 | N42°17'45.772"E | 34.421 |
| B15 | N00°41'42.172"W | 41.397 |
| B16 | N19°57'18.230"E | 193.218 |
| B17 | N41°51'56.244"E | 106.25 |
| B18 | N72°50'38.408"E | 145.033 |
| B19 | N43°49'44.346"E | 51.853 |
| B20 | N52°08'30.163"E | 57.336 |
| B21 | N22°53'30.685"E | 9.818 |
| B22 | N45°42'48.376"E | 76.997 |
| B23 | N66°20'42.484"E | 35.596 |
| B24 | N43°16'56.391"E | 234.836 |
| B25 | N01°16'59.865"W | 1.012 |
| B26 | N39°41'04.846"E | 34.565 |

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| CO 119 BIKEWAY CURVE DATA | | | | | |
|---------------------------|--------|---------------|---------|---------|-------------|
| NO. | RADIUS | DELTA | LENGTH | TANGENT | PI STATION |
| C1 | 204 | 40°41'23.478" | 144.875 | 75.644 | 1001+76.482 |
| C2 | 194 | 34°38'31.462" | 117.296 | 60.502 | 1003+52.727 |
| C3 | 1000 | 13°00'56.806" | 227.168 | 114.075 | 1006+44.085 |
| C4 | 400 | 08°40'10.848" | 60.526 | 30.321 | 1014+03.272 |
| C5 | 400 | 08°36'45.255" | 60.127 | 30.12 | 1015+56.520 |
| C6 | 192 | 23°01'15.705" | 77.144 | 39.1 | 1020+42.867 |
| C7 | 206 | 27°01'39.691" | 97.175 | 49.509 | 1021+83.750 |
| C8 | 2000 | 09°19'47.718" | 325.676 | 163.199 | 1027+45.118 |
| C9 | 121 | 46°44'15.692" | 98.703 | 52.283 | 1031+21.203 |
| C10 | 109 | 51°30'23.087" | 97.986 | 52.583 | 1033+52.553 |
| C11 | 500 | 06°49'48.800" | 59.605 | 29.838 | 1035+18.919 |
| C12 | 500 | 15°42'57.227" | 137.147 | 69.007 | 1041+59.061 |

| CO 119 BIKEWAY CURVE DATA | | | | | |
|---------------------------|--------|---------------|---------|---------|-------------|
| NO. | RADIUS | DELTA | LENGTH | TANGENT | PI STATION |
| C13 | 192 | 14°03'19.954" | 47.101 | 23.669 | 1044+37.735 |
| C14 | 109 | 42°59'27.944" | 81.787 | 42.926 | 1045+38.514 |
| C15 | 121 | 20°39'00.402" | 43.61 | 22.044 | 1046+40.815 |
| C16 | 121 | 21°54'38.014" | 46.272 | 23.422 | 1048+79.021 |
| C17 | 500 | 30°58'42.164" | 270.337 | 138.561 | 1051+46.681 |
| C18 | 194 | 29°00'54.062" | 98.243 | 50.199 | 1054+73.691 |
| C19 | 1000 | 08°18'45.817" | 145.084 | 72.67 | 1056+46.258 |
| C20 | 390 | 29°14'59.478" | 199.097 | 101.769 | 1058+77.777 |
| C21 | 204 | 22°49'17.691" | 81.256 | 41.174 | 1060+26.097 |
| C22 | 350 | 20°37'54.108" | 126.032 | 63.706 | 1062+06.882 |
| C23 | 194 | 23°03'46.093" | 78.089 | 39.58 | 1063+44.384 |
| C24 | 192 | 44°33'56.256" | 149.341 | 78.678 | 1066+96.406 |
| C25 | 195 | 40°58'04.711" | 139.43 | 72.845 | 1068+40.927 |



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All seals for this set of drawings are applied to the cover page(s)

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Horiz. Scale: 1"=500' Vert. Scale: As Noted
Unit Information

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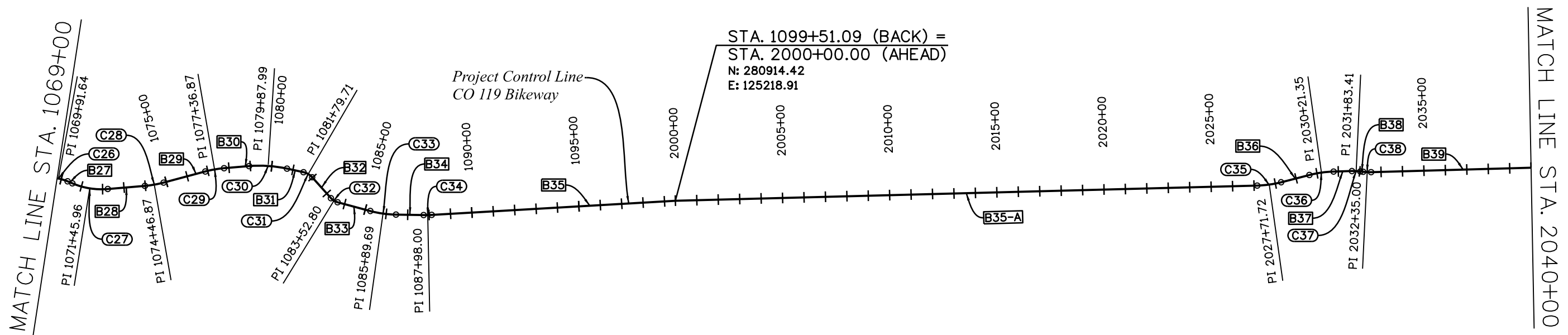


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| CO 119 BIKEWAY GEOMETRY PLANS | | | |
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| Designer: | DKH | Structure Numbers | |
| Detailer: | PDP | | |
| Sheet Subset: | GEO | Subset Sheets: | 1 of 7 |

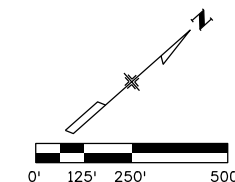
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| Project No./Code | |
| Sheet Number | 17 |

NOTE:
SEE BIKE SPUR PLAN SHEETS FOR SPUR GEOMETRY INFORMATION



| CO 119 BIKEWAY CURVE DATA | | | | | |
|---------------------------|--------|---------------|---------|---------|-------------|
| NO. | RADIUS | DELTA | LENGTH | TANGENT | PI STATION |
| C26 | 206 | 24°43'40.814" | 88.907 | 45.156 | 1069+87.232 |
| C27 | 350 | 27°39'13.211" | 168.927 | 86.142 | 1071+41.545 |
| C28 | 500 | 10°09'36.512" | 88.664 | 44.449 | 1074+42.456 |
| C29 | 500 | 10°12'27.194" | 89.078 | 44.657 | 1077+32.456 |
| C30 | 600 | 16°59'45.014" | 177.98 | 89.648 | 1079+83.580 |
| C31 | 76 | 35°53'40.362" | 47.612 | 24.617 | 1081+75.294 |
| C32 | 64 | 33°13'19.388" | 37.109 | 19.093 | 1083+48.385 |
| C33 | 500 | 13°54'55.757" | 121.436 | 61.018 | 1085+85.273 |
| C34 | 500 | 04°19'43.694" | 37.776 | 18.897 | 1087+93.584 |
| C35 | 500 | 12°54'58.838" | 112.716 | 56.598 | 2027+71.719 |
| C36 | 512 | 12°48'34.723" | 114.468 | 57.474 | 2030+21.352 |
| C37 | 262 | 08°31'50.756" | 39.009 | 19.541 | 2031+83.405 |
| C38 | 250 | 08°30'05.286" | 37.095 | 18.581 | 2032+34.997 |

| CO 119 BIKEWAY CONTROL LINE DATA | | |
|----------------------------------|-----------------|----------|
| NO. | BEARING | DISTANCE |
| B27 | N64°24'45.660"E | 24.42 |
| B28 | N36°45'32.450"E | 173.678 |
| B29 | N26°35'55.938"E | 201.127 |
| B30 | N36°48'23.132"E | 117.055 |
| B31 | N53°48'08.145"E | 78.766 |
| B32 | N89°41'48.508"E | 131.003 |
| B33 | N56°28'29.119"E | 157.854 |
| B34 | N42°33'33.362"E | 128.996 |
| B35 | N38°13'49.668"E | 1138.625 |
| B35-A | N40°03'51.512"E | 2715.121 |
| B36 | N27°08'52.674"E | 136.041 |
| B37 | N39°57'27.397"E | 85.518 |
| B38 | N48°29'18.153"E | 13.542 |
| B39 | N39°59'12.868"E | 1193.512 |



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 Unit Information

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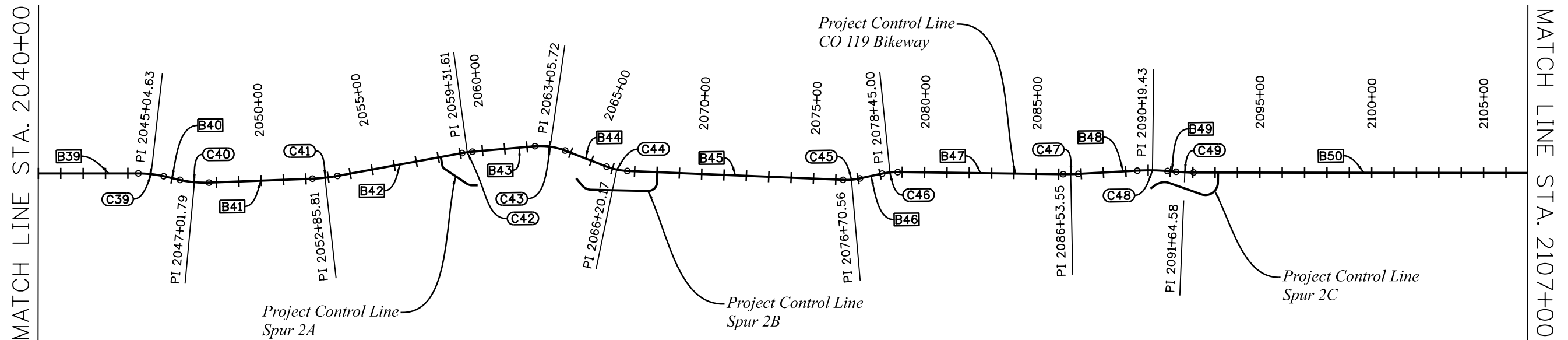
CO 119 BIKEWAY
GEOMETRY PLANS

Designer: DKH
 Detailer: PDP
 Sheet Subset: GEO
 Structure Numbers:
 Subset Sheets: 2 of 7

Project No./Code
 Sheet Number **18**

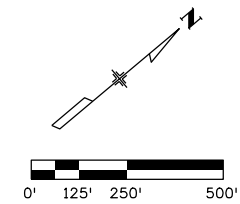
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NOTE:
SEE BIKE SPUR PLAN SHEETS FOR SPUR GEOMETRY INFORMATION



| CO 119 BIKEWAY CURVE DATA | | | | | |
|---------------------------|--------|---------------|---------|---------|-------------|
| NO. | RADIUS | DELTA | LENGTH | TANGENT | PI STATION |
| C39 | 512 | 12°50'20.194" | 114.73 | 57.606 | 2045+04.629 |
| C40 | 500 | 14°58'47.541" | 130.724 | 65.737 | 2047+01.787 |
| C41 | 788 | 08°10'18.024" | 112.387 | 56.289 | 2052+85.812 |
| C42 | 500 | 05°20'16.636" | 46.582 | 23.308 | 2059+31.612 |
| C43 | 300 | 26°17'04.366" | 137.626 | 70.046 | 2063+05.722 |
| C44 | 288 | 18°54'28.920" | 95.042 | 47.957 | 2066+20.174 |
| C45 | 300 | 14°27'32.860" | 75.708 | 38.056 | 2076+70.560 |
| C46 | 312 | 12°50'20.194" | 69.914 | 35.104 | 2078+44.998 |
| C47 | 1000 | 03°52'15.699" | 67.562 | 33.794 | 2086+53.553 |
| C48 | 1000 | 07°44'29.964" | 135.117 | 67.662 | 2090+19.431 |
| C49 | 988 | 04°31'40.392" | 78.078 | 39.059 | 2091+64.580 |

| CO 119 BIKEWAY CONTROL LINE DATA | | |
|----------------------------------|-----------------|----------|
| NO. | BEARING | DISTANCE |
| B40 | N52°49'33.061"E | 74.298 |
| B41 | N37°50'45.521"E | 462.749 |
| B42 | N29°40'27.496"E | 566.395 |
| B43 | N35°00'44.132"E | 280.79 |
| B44 | N61°17'48.498"E | 198.914 |
| B45 | N42°23'19.578"E | 965.245 |
| B46 | N27°55'46.719"E | 101.682 |
| B47 | N40°46'06.912"E | 739.952 |
| B48 | N36°53'51.213"E | 264.449 |
| B49 | N44°38'21.177"E | 38.633 |
| B50 | N40°06'40.785"E | 1521.964 |



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 No Revisions:
 Revised:
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CD 119 BIKEWAY
GEOMETRY PLANS

Designer: DKH
 Detailer: PDP
 Sheet Subset: GEO

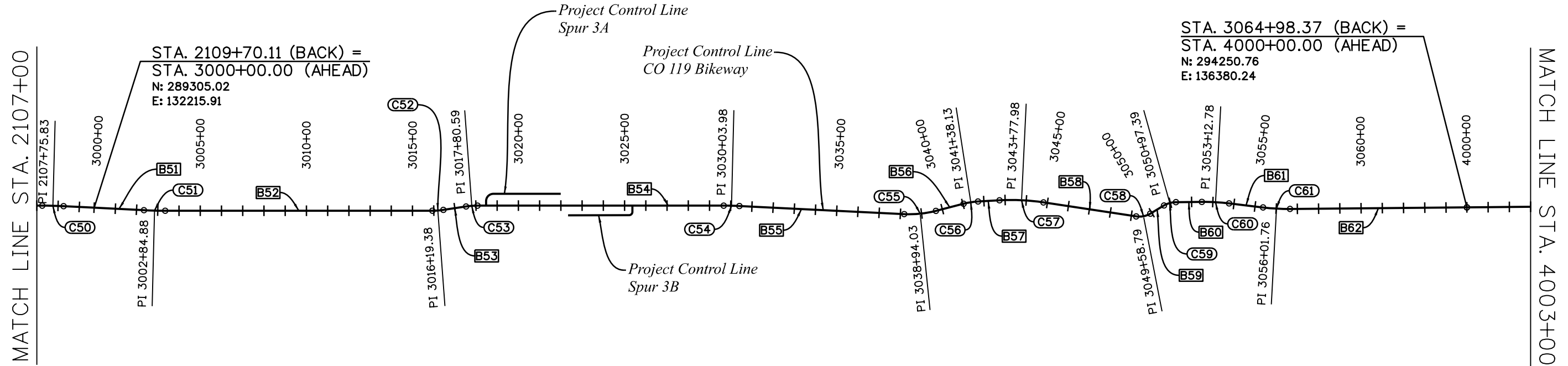
Structure Numbers
 Subset Sheets: 3 of 7

Project No./Code
 Sheet Number **19**

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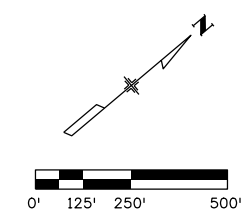
NOTE:

SEE BIKE SPUR PLAN SHEETS FOR SPUR GEOMETRY INFORMATION



| CO 119 BIKEWAY CURVE DATA | | | | | |
|---------------------------|--------|---------------|---------|---------|-------------|
| NO. | RADIUS | DELTA | LENGTH | TANGENT | PI STATION |
| C50 | 2012 | 02°51'44.659" | 100.516 | 50.269 | 2107+75.831 |
| C51 | 2000 | 02°51'44.659" | 99.917 | 49.969 | 3002+84.883 |
| C52 | 350 | 08°31'50.756" | 52.111 | 26.104 | 3016+19.378 |
| C53 | 362 | 08°31'50.756" | 53.898 | 26.999 | 3017+80.594 |
| C54 | 1512 | 02°48'21.287" | 74.046 | 37.031 | 3030+03.981 |
| C55 | 500 | 17°15'56.869" | 150.673 | 75.912 | 3038+94.033 |
| C56 | 350 | 11°18'35.757" | 69.088 | 34.657 | 3041+38.134 |
| C57 | 1012 | 11°45'05.112" | 207.562 | 104.146 | 3043+77.981 |
| C58 | 100 | 39°22'38.308" | 68.726 | 35.783 | 3049+58.791 |
| C59 | 112 | 30°16'25.430" | 59.178 | 30.297 | 3050+97.392 |
| C60 | 1012 | 07°17'12.220" | 128.704 | 64.439 | 3053+12.782 |
| C61 | 1000 | 07°17'12.220" | 127.177 | 63.675 | 3056+01.765 |

| CO 119 BIKEWAY CONTROL LINE DATA | | |
|----------------------------------|-----------------|----------|
| NO. | BEARING | DISTANCE |
| B51 | N42°58'25.444"E | 378.94 |
| B52 | N40°06'40.785"E | 1258.443 |
| B53 | N31°34'50.029"E | 108.209 |
| B54 | N40°06'40.785"E | 1159.458 |
| B55 | N42°55'02.072"E | 777.125 |
| B56 | N25°39'05.203"E | 134.683 |
| B57 | N36°57'40.960"E | 101.269 |
| B58 | N48°42'46.072"E | 441.611 |
| B59 | N09°20'07.764"E | 75.36 |
| B60 | N39°36'33.195"E | 122.071 |
| B61 | N46°53'45.415"E | 161.043 |
| B62 | N39°36'33.195"E | 177050 |



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All seals for this set of drawings are applied to the cover page(s)

Print Date: 6/28/2022
 File Name: 200_21015_RD_Geometry Pln 4.dgn
 Horiz. Scale: 1"=500' Vert. Scale: As Noted
 Unit Information

| Sheet Revisions | | |
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| Date: | Comments | Init. |
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As Constructed
 No Revisions:
 Revised:
 Void:

CD 119 BIKEWAY
GEOMETRY PLANS

Designer: DKH
 Detailer: PDP
 Sheet Subset: GEO

Structure Numbers
 Subset Sheets: 4 of 7

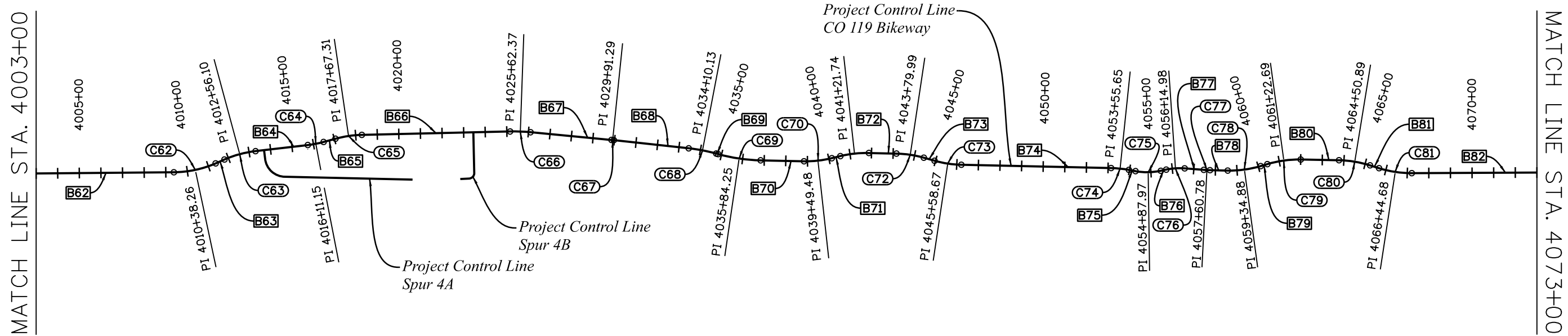
Project No./Code
 Sheet Number **20**

NOTE:

SEE BIKE SPUR PLAN SHEETS FOR SPUR GEOMETRY INFORMATION

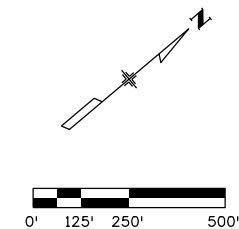
| CO 119 BIKEWAY CONTROL LINE DATA | | |
|----------------------------------|-----------------|----------|
| NO. | BEARING | DISTANCE |
| B63 | N16°31'50.245"E | 44.466 |
| B64 | N33°26'51.619"E | 243.549 |
| B65 | N24°47'58.490"E | 56.792 |
| B66 | N38°48'23.270"E | 686.149 |
| B67 | N45°32'13.270"E | 376.078 |
| B68 | N46°19'54.098"E | 348.366 |
| B69 | N55°32'10.032"E | 9.36 |
| B70 | N41°22'05.509"E | 200.718 |
| B71 | N26°17'33.056"E | 40.689 |
| B72 | N41°22'05.509"E | 127.562 |

| CO 119 BIKEWAY CONTROL LINE DATA | | |
|----------------------------------|-----------------|----------|
| NO. | BEARING | DISTANCE |
| B73 | N55°53'51.304"E | 51.894 |
| B74 | N41°22'05.509"E | 692.907 |
| B75 | N50°48'31.384"E | 31.064 |
| B76 | N27°51'55.345"E | 25.659 |
| B77 | N44°36'56.390"E | 88.77 |
| B78 | N41°21'53.371"E | 81.748 |
| B79 | N23°25'06.168"E | 32.065 |
| B80 | N41°10'07.889"E | 177.005 |
| B81 | N57°41'16.667"E | 43.762 |
| B82 | N39°50'07.490"E | 2156.734 |



| CO 119 BIKEWAY CURVE DATA | | | | | |
|---------------------------|--------|---------------|---------|---------|-------------|
| NO. | RADIUS | DELTA | LENGTH | TANGENT | PI STATION |
| C62 | 494 | 23°04'42.950" | 198.982 | 100.858 | 4010+38.259 |
| C63 | 506 | 16°55'01.374" | 149.401 | 75.248 | 4012+56.097 |
| C64 | 494 | 08°38'53.129" | 74.563 | 37.353 | 4016+11.152 |
| C65 | 506 | 14°00'24.780" | 123.7 | 62.16 | 4017+67.314 |
| C66 | 806 | 06°43'34.999" | 94.622 | 47.366 | 4025+62.368 |
| C67 | 806 | 00°47'40.828" | 11.179 | 5.59 | 4029+91.292 |
| C68 | 806 | 09°12'15.934" | 129.482 | 64.881 | 4034+10.128 |
| C69 | 806 | 14°10'04.523" | 199.305 | 100.163 | 4035+84.253 |
| C70 | 494 | 15°04'32.454" | 129.981 | 65.368 | 4039+49.481 |
| C71 | 506 | 15°04'32.454" | 133.139 | 66.956 | 4041+21.740 |

| CO 119 BIKEWAY CURVE DATA | | | | | |
|---------------------------|--------|---------------|---------|---------|-------------|
| NO. | RADIUS | DELTA | LENGTH | TANGENT | PI STATION |
| C72 | 506 | 14°31'45.795" | 128.314 | 64.503 | 4043+79.988 |
| C73 | 494 | 14°31'45.795" | 125.271 | 62.973 | 4045+58.667 |
| C74 | 506 | 09°26'25.875" | 83.373 | 41.781 | 4053+55.653 |
| C75 | 294 | 22°56'36.039" | 117.728 | 59.664 | 4054+87.972 |
| C76 | 294 | 16°45'01.045" | 85.95 | 43.284 | 4056+14.980 |
| C77 | 506 | 03°15'03.018" | 28.709 | 14.359 | 4057+60.775 |
| C78 | 494 | 17°56'47.204" | 154.733 | 78.005 | 4059+34.880 |
| C79 | 506 | 17°45'01.721" | 156.761 | 79.013 | 4061+22.686 |
| C80 | 506 | 16°31'08.778" | 145.886 | 73.453 | 4064+50.891 |
| C81 | 494 | 17°51'09.176" | 153.923 | 77.59 | 4066+44.677 |

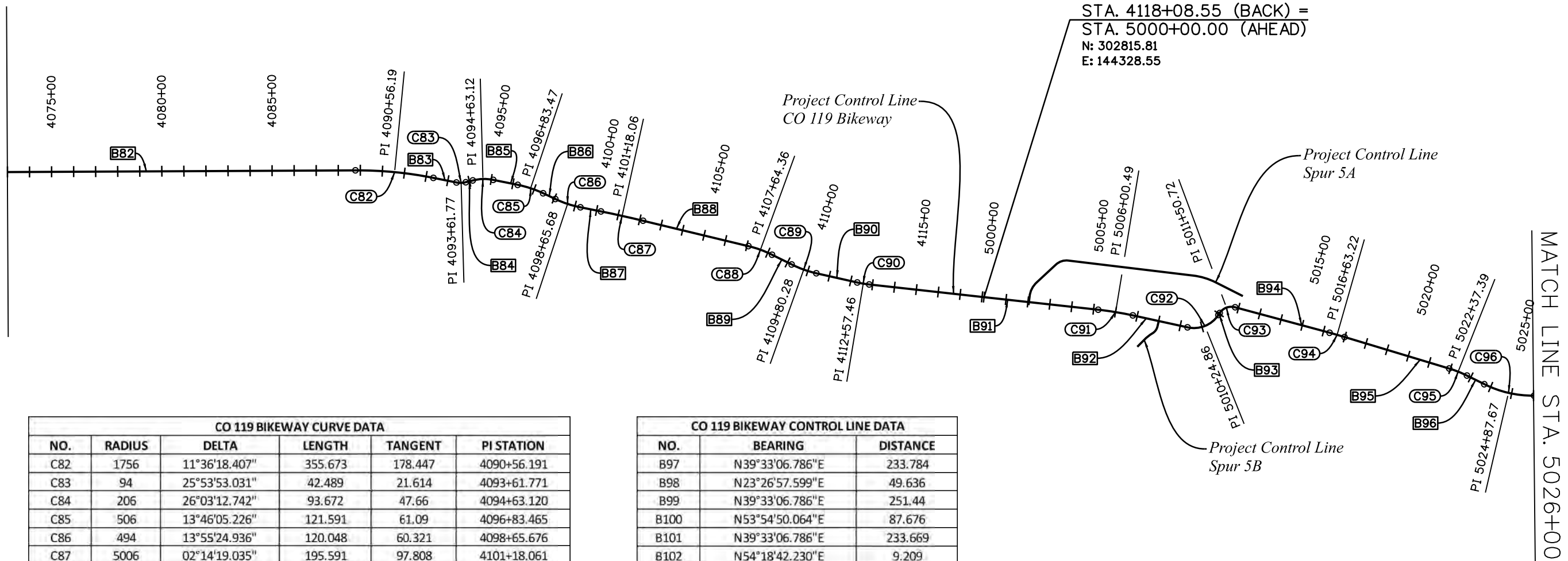


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| | | | | | | | | | | | |
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| All seals for this set of drawings are applied to the cover page(s) | Print Date: 6/28/2022 | Sheet Revisions | | | | As Constructed | | CO 119 BIKEWAY GEOMETRY PLANS | | Project No./Code | |
| | File Name: 200_21015_RD_Geometry Pln 5.dgn | Date: | Comments | Init. | | No Revisions: | | | | | |
| | Horiz. Scale: 1"=500' Vert. Scale: As Noted | | | | | Revised: | Designer: DKH | Structure Numbers | | | |
| | Unit Information | | | | | Void: | Detailer: PDP | Subset Sheets: 5 of 7 | Sheet Number 21 | | |
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NOTE:
SEE BIKE SPUR PLAN SHEETS FOR SPUR GEOMETRY INFORMATION

MATCH LINE STA. 4073+00

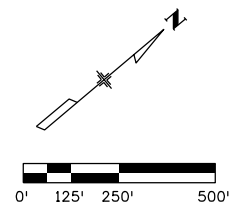


CO 119 BIKEWAY CURVE DATA

| NO. | RADIUS | DELTA | LENGTH | TANGENT | PI STATION |
|-----|--------|---------------|---------|---------|-------------|
| C82 | 1756 | 11°36'18.407" | 355.673 | 178.447 | 4090+56.191 |
| C83 | 94 | 25°53'53.031" | 42.489 | 21.614 | 4093+61.771 |
| C84 | 206 | 26°03'12.742" | 93.672 | 47.66 | 4094+63.120 |
| C85 | 506 | 13°46'05.226" | 121.591 | 61.09 | 4096+83.465 |
| C86 | 494 | 13°55'24.936" | 120.048 | 60.321 | 4098+65.676 |
| C87 | 5006 | 02°14'19.035" | 195.591 | 97.808 | 4101+18.061 |
| C88 | 506 | 12°55'06.903" | 114.089 | 57.287 | 4107+64.361 |
| C89 | 494 | 13°48'27.990" | 119.05 | 59.815 | 4109+80.279 |
| C90 | 494 | 06°23'01.991" | 55.041 | 27.549 | 4112+57.463 |
| C91 | 1506 | 06°04'14.590" | 159.567 | 79.858 | 5006+00.491 |
| C92 | 134 | 68°22'29.979" | 159.911 | 91.024 | 5010+24.864 |
| C93 | 64 | 71°08'12.355" | 79.461 | 45.766 | 5011+50.724 |
| C94 | 2506 | 01°36'46.040" | 70.54 | 35.272 | 5016+63.220 |
| C95 | 506 | 09°48'42.297" | 86.651 | 43.432 | 5022+37.387 |
| C96 | 494 | 27°06'40.370" | 233.751 | 119.106 | 5024+87.675 |

CO 119 BIKEWAY CONTROL LINE DATA

| NO. | BEARING | DISTANCE |
|------|-----------------|----------|
| B97 | N39°33'06.786"E | 233.784 |
| B98 | N23°26'57.599"E | 49.636 |
| B99 | N39°33'06.786"E | 251.44 |
| B100 | N53°54'50.064"E | 87.676 |
| B101 | N39°33'06.786"E | 233.669 |
| B102 | N54°18'42.230"E | 9.209 |
| B103 | N17°02'35.057"E | 46.887 |
| B104 | N36°14'51.193"E | 441.819 |
| B105 | N44°42'22.205"E | 50.916 |
| B106 | N33°27'23.322"E | 318.321 |
| B107 | N23°32'45.489"E | 1117.403 |
| B108 | N45°54'12.180"E | 284.589 |
| B109 | N17°05'21.532"E | 145.158 |
| B110 | N65°49'51.910"E | 97.616 |
| B111 | N62°07'41.442"E | 216.991 |
| B112 | N29°58'36.897"E | 39.106 |



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All seals for this set of drawings are applied to the cover page(s)

Print Date: 6/28/2022
 File Name: 200_21015_RD_Geometry Pln 6.dgn
 Horiz. Scale: 1"=500' Vert. Scale: As Noted
 Unit Information

| Sheet Revisions | | |
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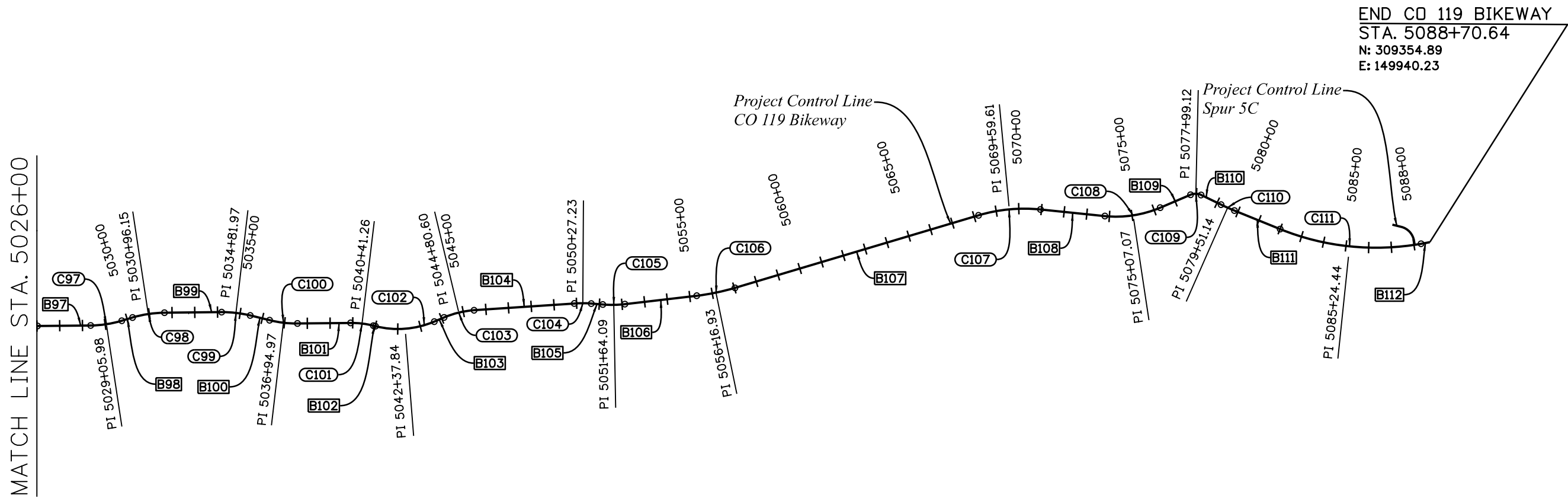


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| As Constructed | |
| No Revisions: | |
| Revised: | |
| Void: | |

| CO 119 BIKEWAY GEOMETRY PLANS | | | |
|-------------------------------|-----|-------------------|--------|
| Designer: | DKH | Structure Numbers | |
| Detailer: | PDP | | |
| Sheet Subset: | GEO | Subset Sheets: | 6 of 7 |

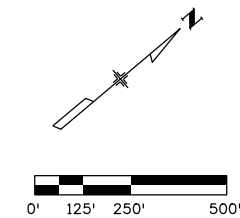
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| Project No./Code | |
| Sheet Number | 22 |

NOTE:
SEE BIKE SPUR PLAN SHEETS FOR SPUR GEOMETRY INFORMATION



| CO 119 BIKEWAY CURVE DATA | | | | | |
|---------------------------|--------|---------------|---------|---------|-------------|
| NO. | RADIUS | DELTA | LENGTH | TANGENT | PI STATION |
| C97 | 494 | 16°06'09.187" | 138.835 | 69.878 | 5029+05.982 |
| C98 | 506 | 16°06'09.187" | 142.208 | 71.576 | 5030+96.150 |
| C99 | 506 | 14°21'43.278" | 126.836 | 63.752 | 5034+81.974 |
| C100 | 494 | 14°21'43.278" | 123.828 | 62.24 | 5036+94.974 |
| C101 | 394 | 14°45'35.444" | 101.498 | 51.031 | 5040+41.262 |
| C102 | 406 | 37°16'07.173" | 264.087 | 136.905 | 5042+37.842 |
| C103 | 406 | 19°12'16.136" | 136.084 | 68.686 | 5044+80.598 |
| C104 | 506 | 08°27'31.012" | 74.701 | 37.419 | 5050+27.234 |
| C105 | 494 | 11°14'58.883" | 96.994 | 48.653 | 5051+64.086 |
| C106 | 994 | 09°54'38.311" | 171.935 | 86.183 | 5056+16.930 |
| C107 | 706 | 22°21'26.959" | 275.49 | 139.52 | 5069+59.606 |
| C108 | 494 | 28°48'50.648" | 248.433 | 126.902 | 5075+07.067 |
| C109 | 56 | 48°44'30.378" | 47.639 | 25.368 | 5077+99.124 |
| C110 | 994 | 03°42'10.468" | 64.24 | 32.131 | 5079+51.143 |
| C111 | 1125 | 32°09'04.545" | 631.289 | 324.196 | 5085+24.438 |

| CO 119 BIKEWAY CONTROL LINE DATA | | |
|----------------------------------|-----------------|----------|
| NO. | BEARING | DISTANCE |
| B97 | N39°33'06.786"E | 233.784 |
| B98 | N23°26'57.599"E | 49.636 |
| B99 | N39°33'06.786"E | 251.44 |
| B100 | N53°54'50.064"E | 87.676 |
| B101 | N39°33'06.786"E | 233.669 |
| B102 | N54°18'42.230"E | 9.209 |
| B103 | N17°02'35.057"E | 46.887 |
| B104 | N36°14'51.193"E | 441.819 |
| B105 | N44°42'22.205"E | 50.916 |
| B106 | N33°27'23.322"E | 318.321 |
| B107 | N23°32'45.489"E | 1117.403 |
| B108 | N45°54'12.180"E | 284.589 |
| B109 | N17°05'21.532"E | 145.158 |
| B110 | N65°49'51.910"E | 97.616 |
| B111 | N62°07'41.442"E | 216.991 |
| B112 | N29°58'36.897"E | 39.106 |



All seals for this set of drawings are applied to the cover page(s)

Print Date: 6/28/2022
 File Name: 200_21015_RD_Geometry Pln 7.dgn
 Horiz. Scale: 1"=500' Vert. Scale: As Noted
 Unit Information

| Sheet Revisions | | |
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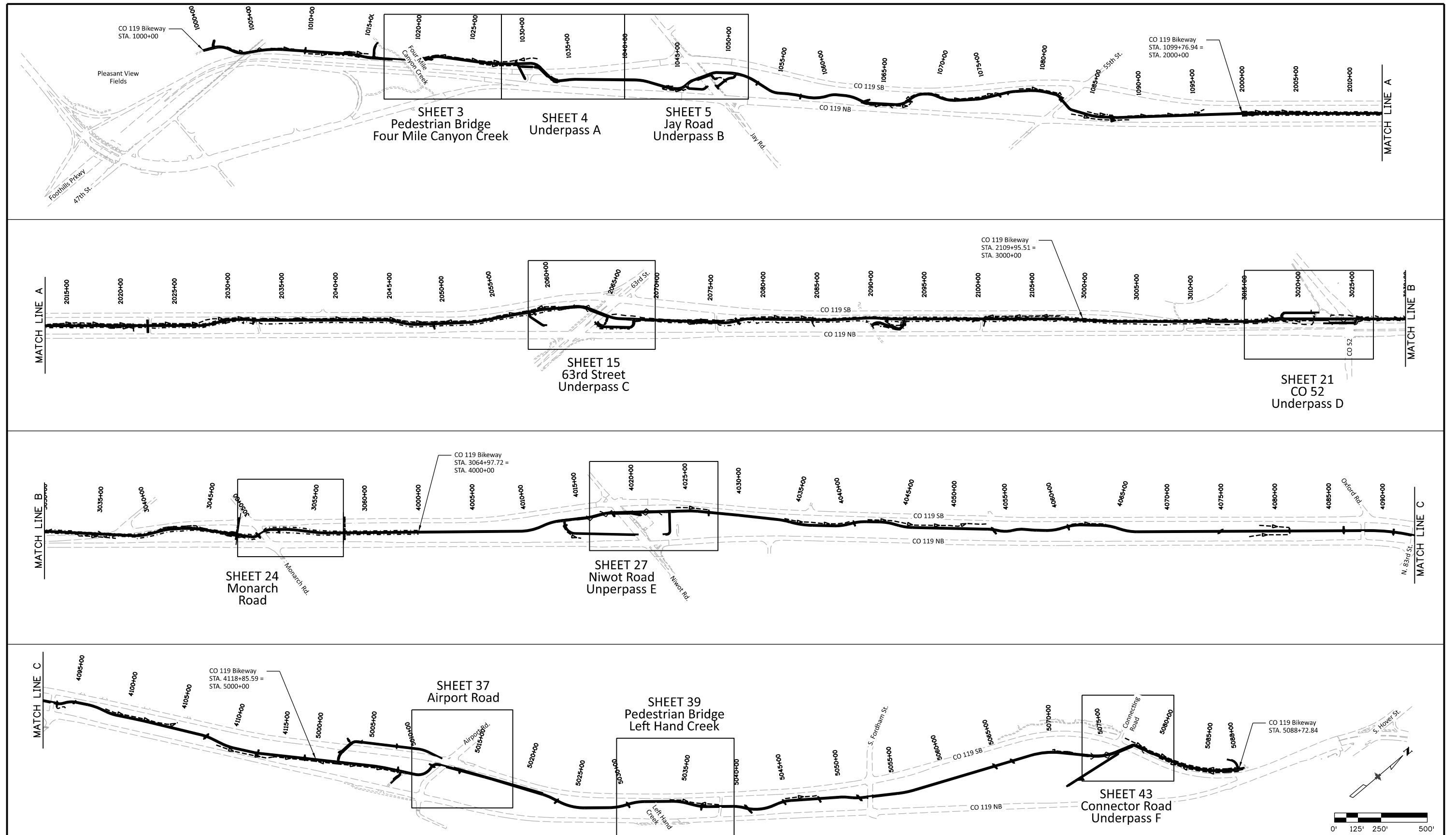
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 No Revisions:
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CD 119 BIKEWAY
GEOMETRY PLANS

Designer: DKH
 Detailer: PDP
 Sheet Subset: GEO

Structure Numbers
 Subset Sheets: 7 of 7

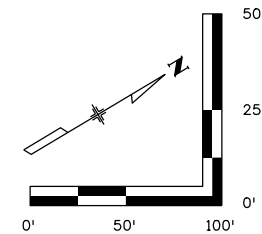
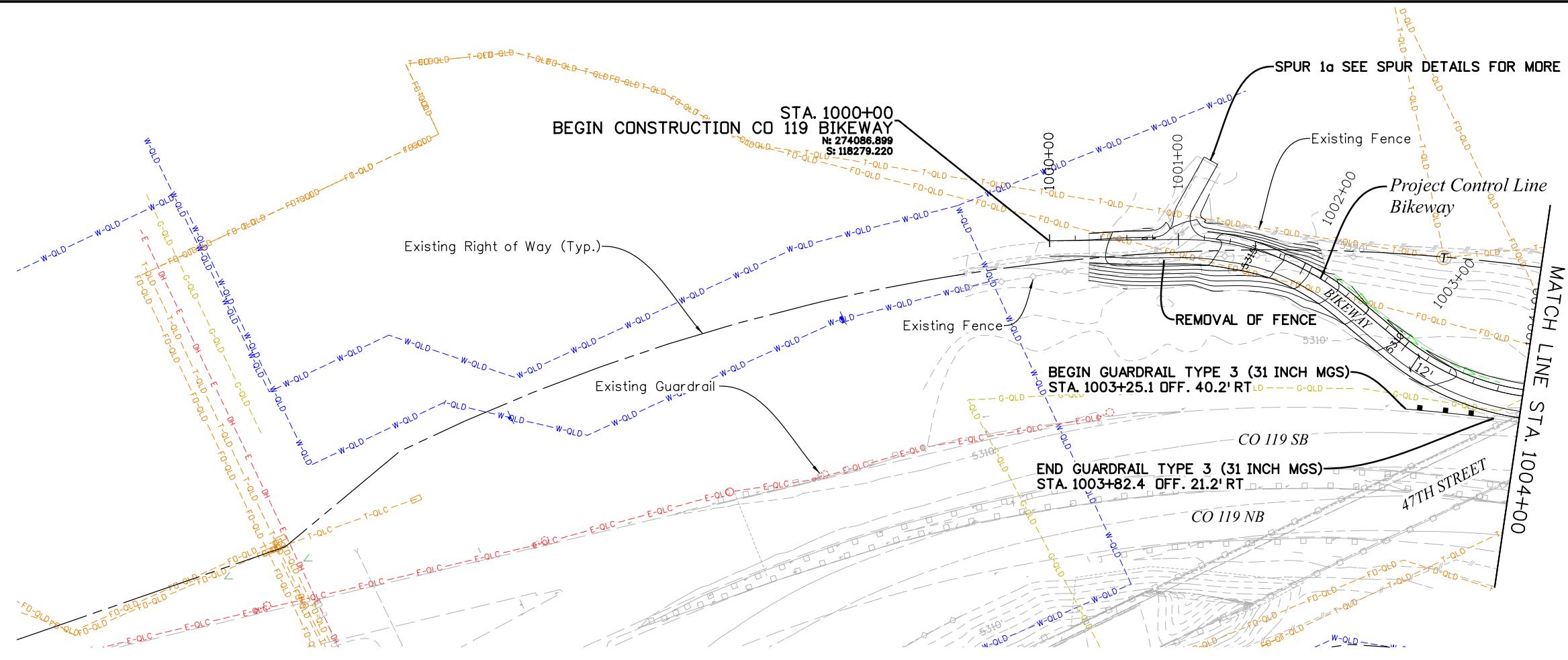
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 Sheet Number **23**



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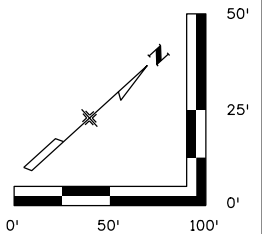
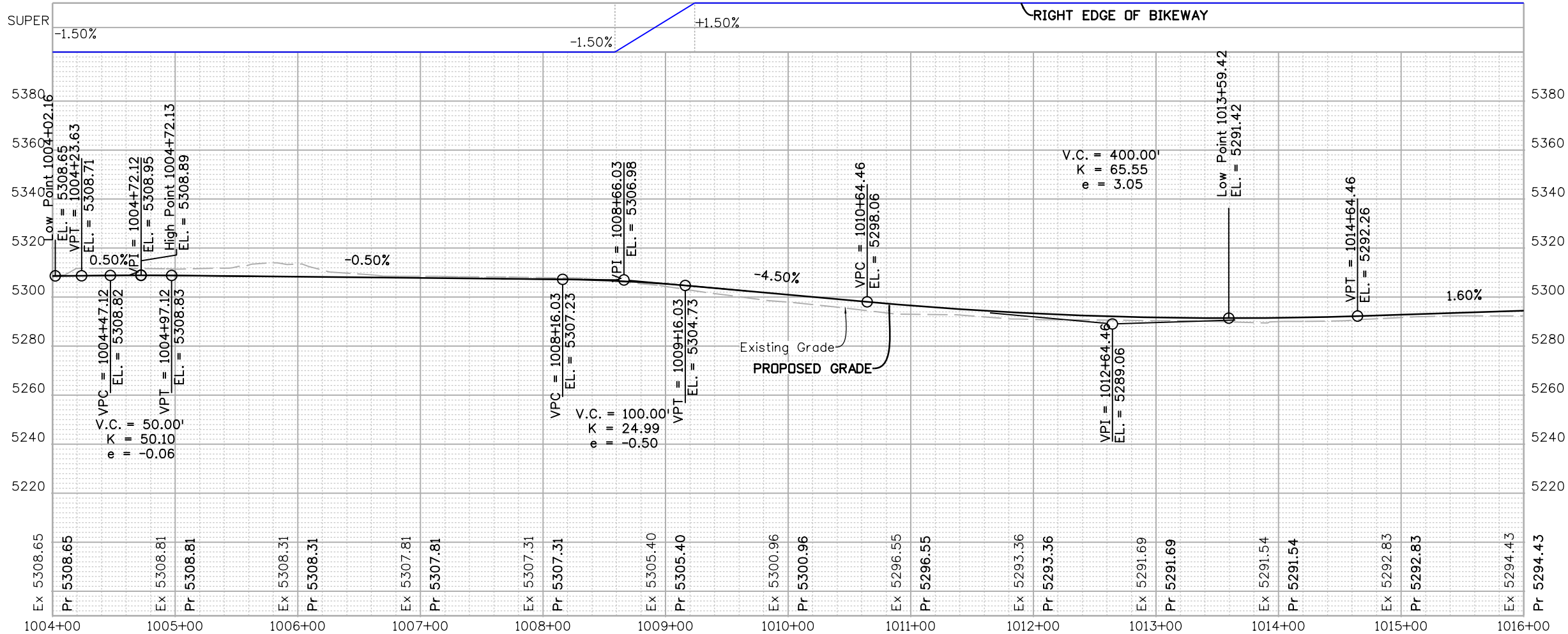
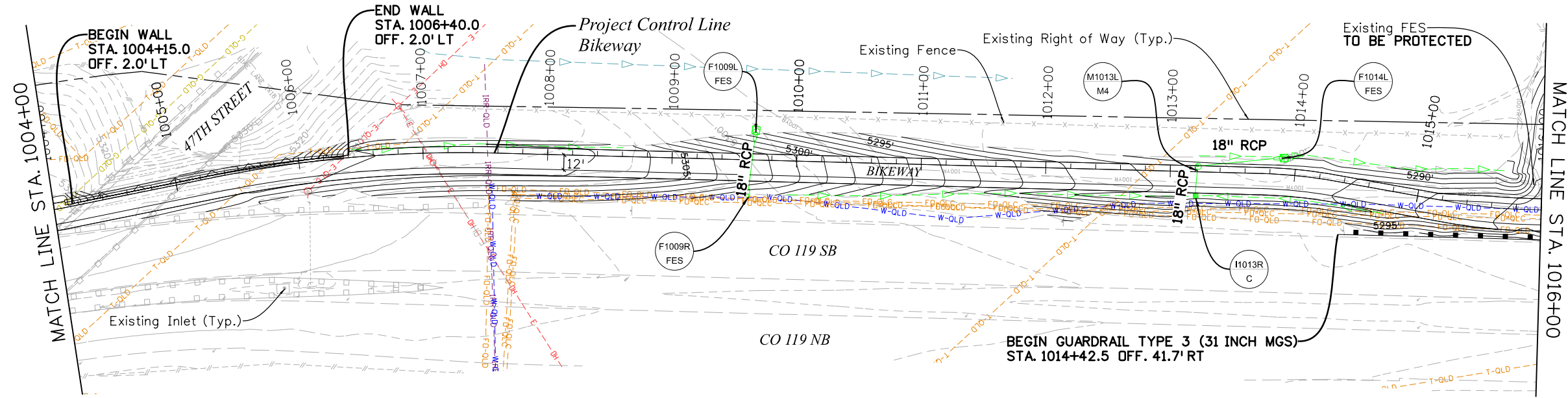
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| | File Name: 299_21015_RD_Key Map.dgn | Date: | Comments | Init. | | No Revisions: | Designer: DKH | Structure Numbers | Sheet No./Code | |
| | Horiz. Scale: 1"=500' Vert. Scale: As Noted | Unit Information | Date: | Comments | | Init. | Revised: | Detailer: PDP | Sheet No./Code | |
| | | Unit Information | Date: | Comments | | Init. | Void: | Sheet Subset: KEYMAP | Subset Sheets: 1 of 1 | Sheet Number 24 |

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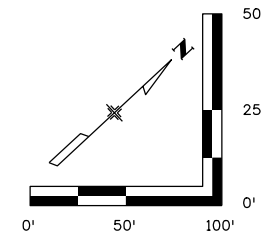
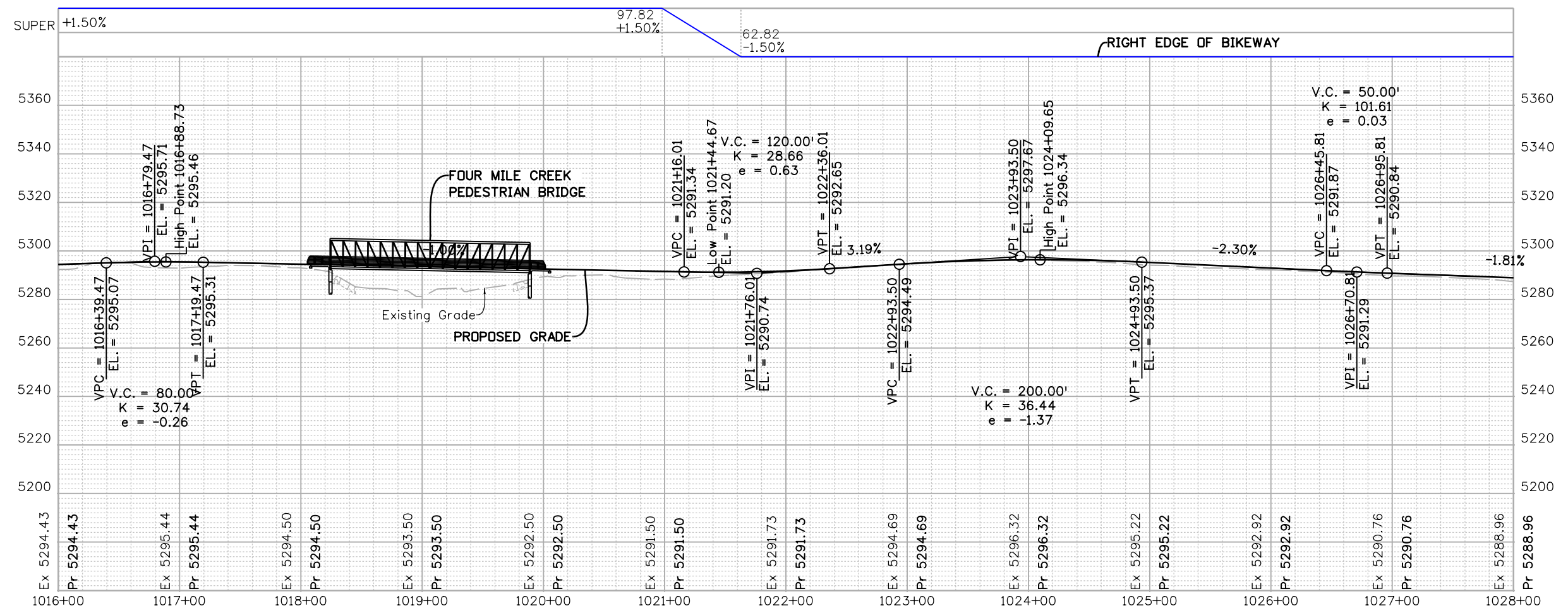
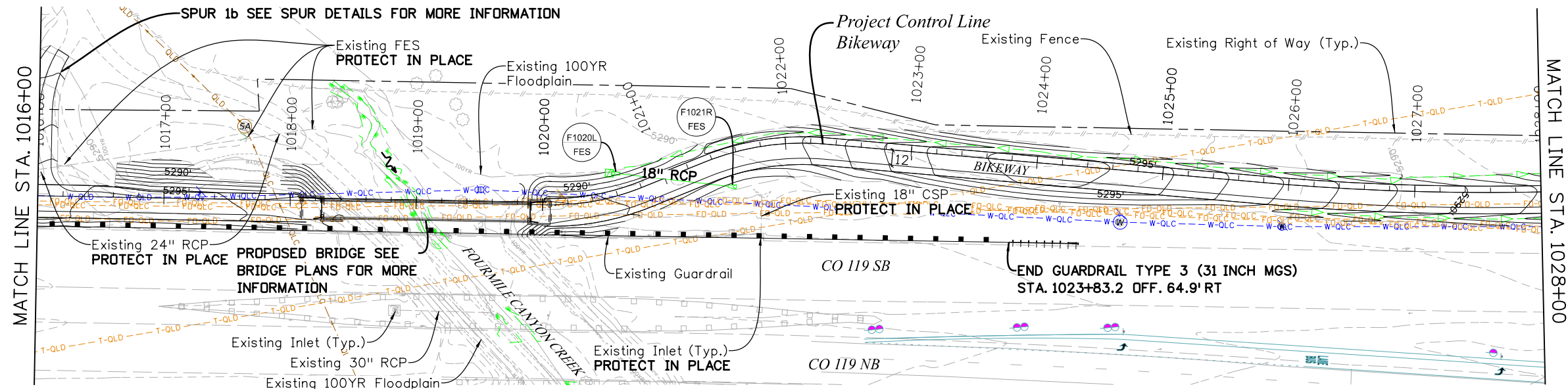
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| | Sheet Revisions | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Designer: | MMA | Structure Numbers: | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Detailer: | MDC | Subset Sheets: | 1 of 44 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Muller Otak ENGINEERING COMPANY | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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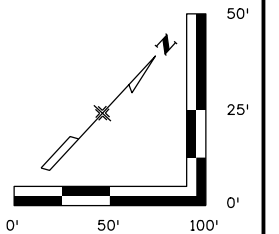
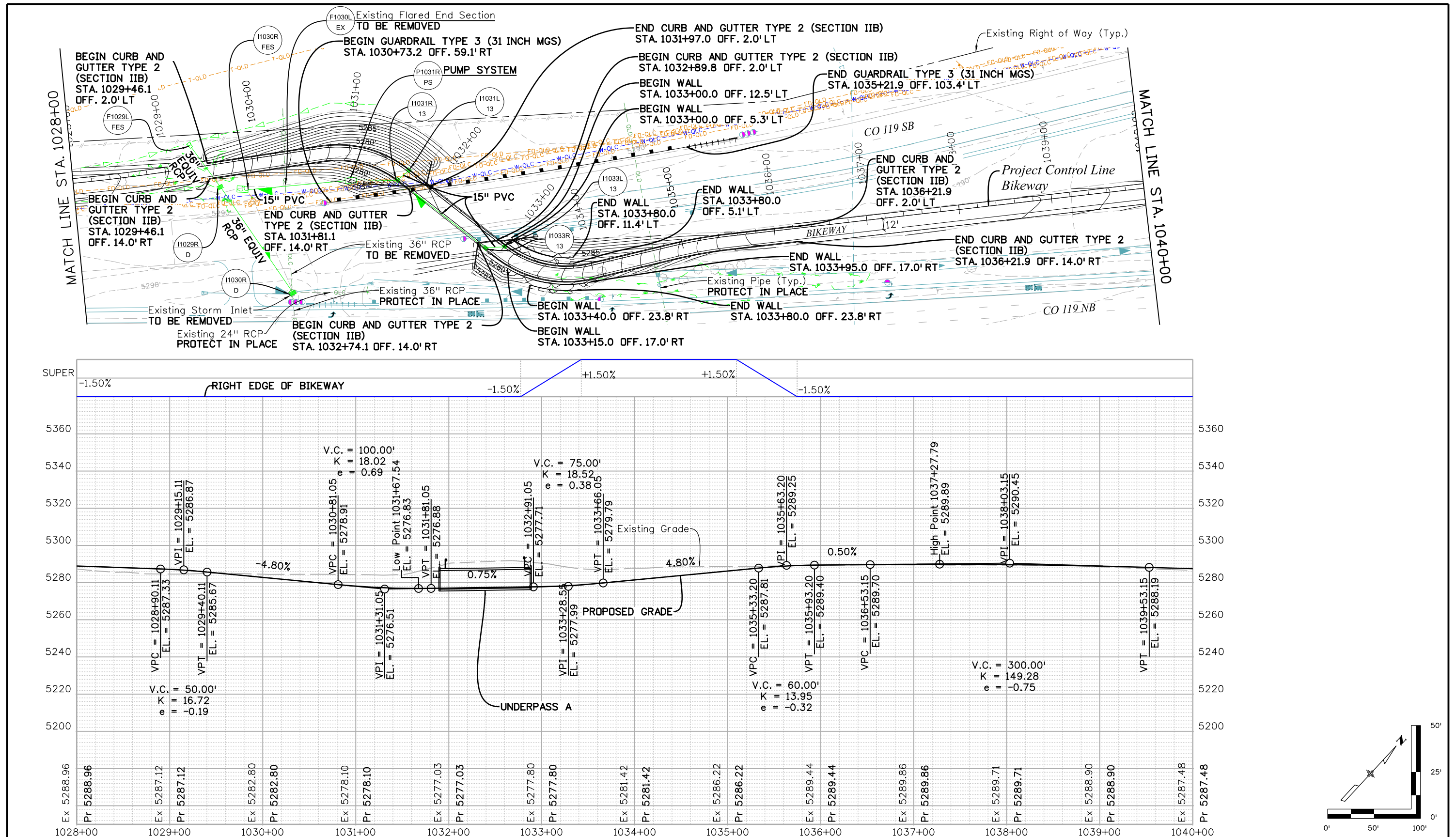
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| Void: | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Designer: MMA Detailer: MDC Sheet Subset: P&P Subset Sheets: 2 of 44 | | Structure Numbers 26 | | | | | | | | | | | | | | | | | | | | | | |

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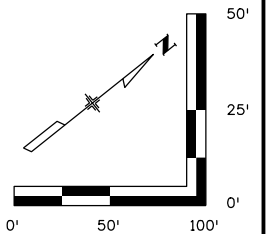
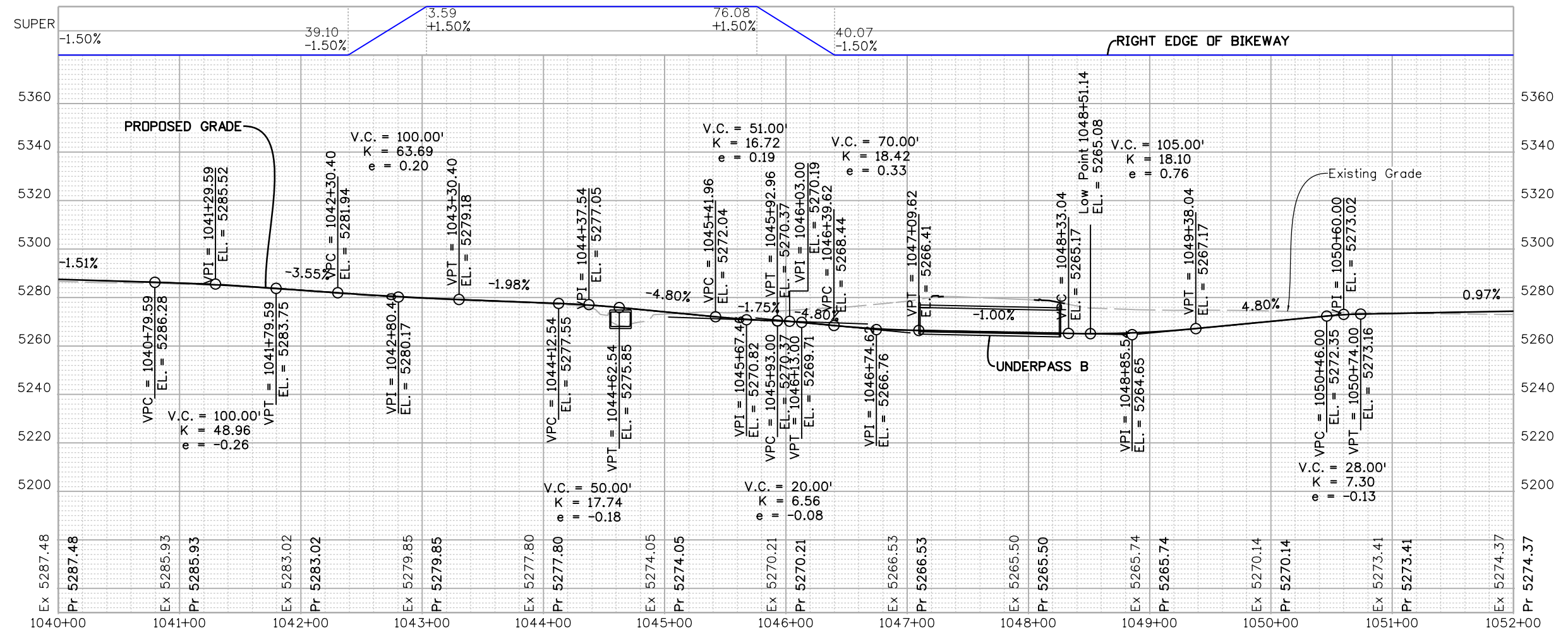
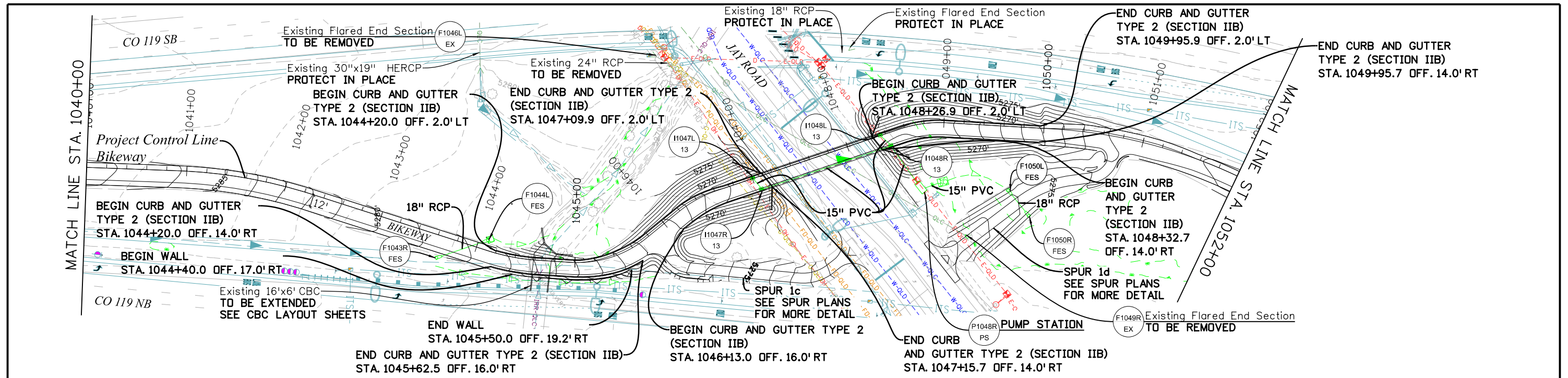
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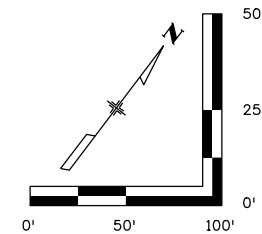
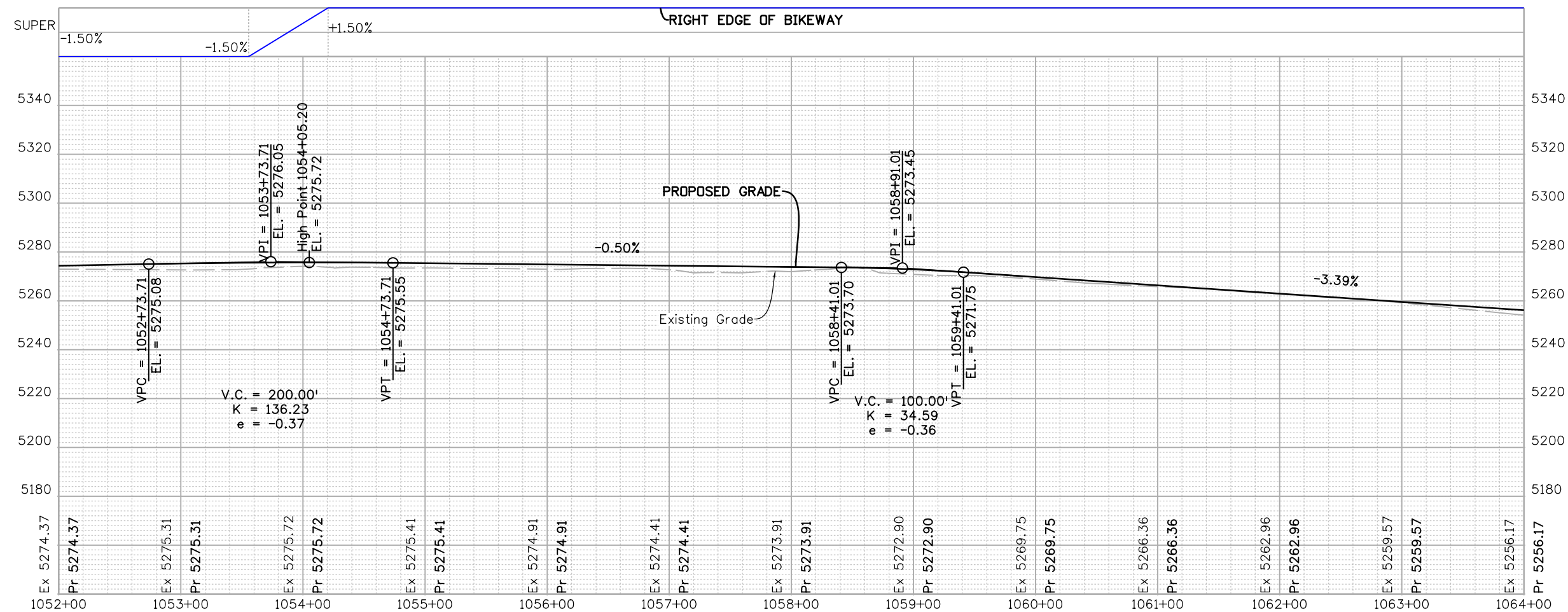
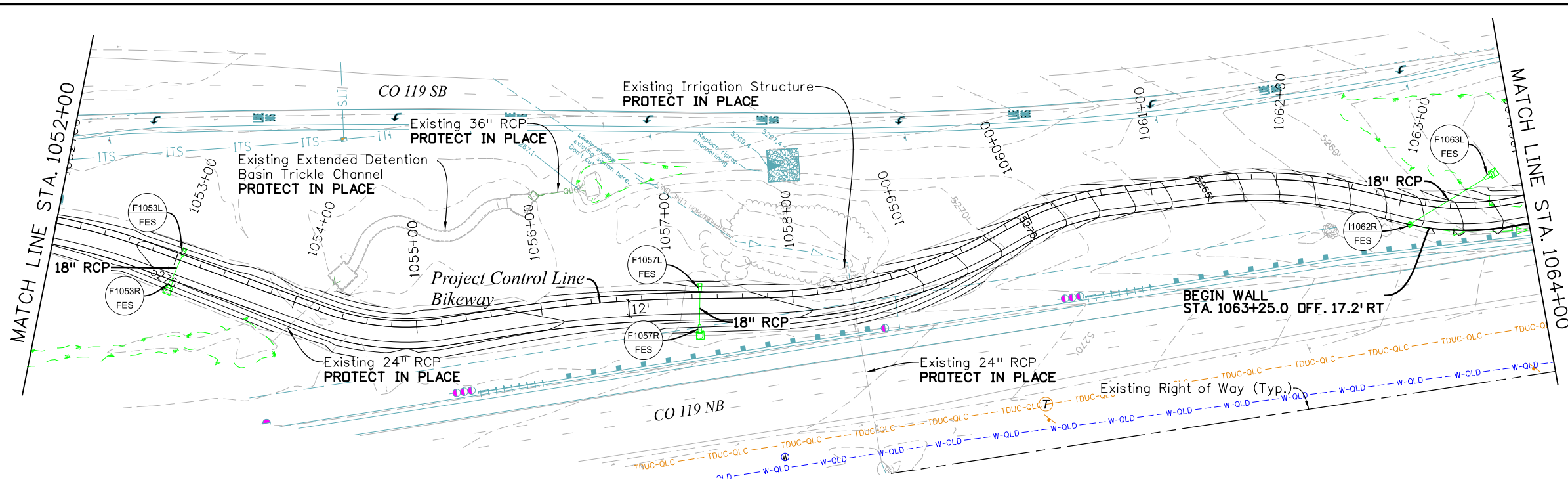
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| | | Date: Comments Init. | No Revisions: | | | BIKEWAY PLAN & PROFILE | | Designer: MMA Detailer: MDC | | Structure Numbers |
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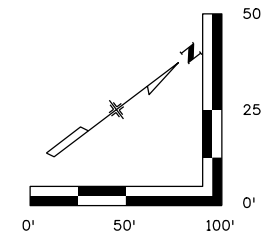
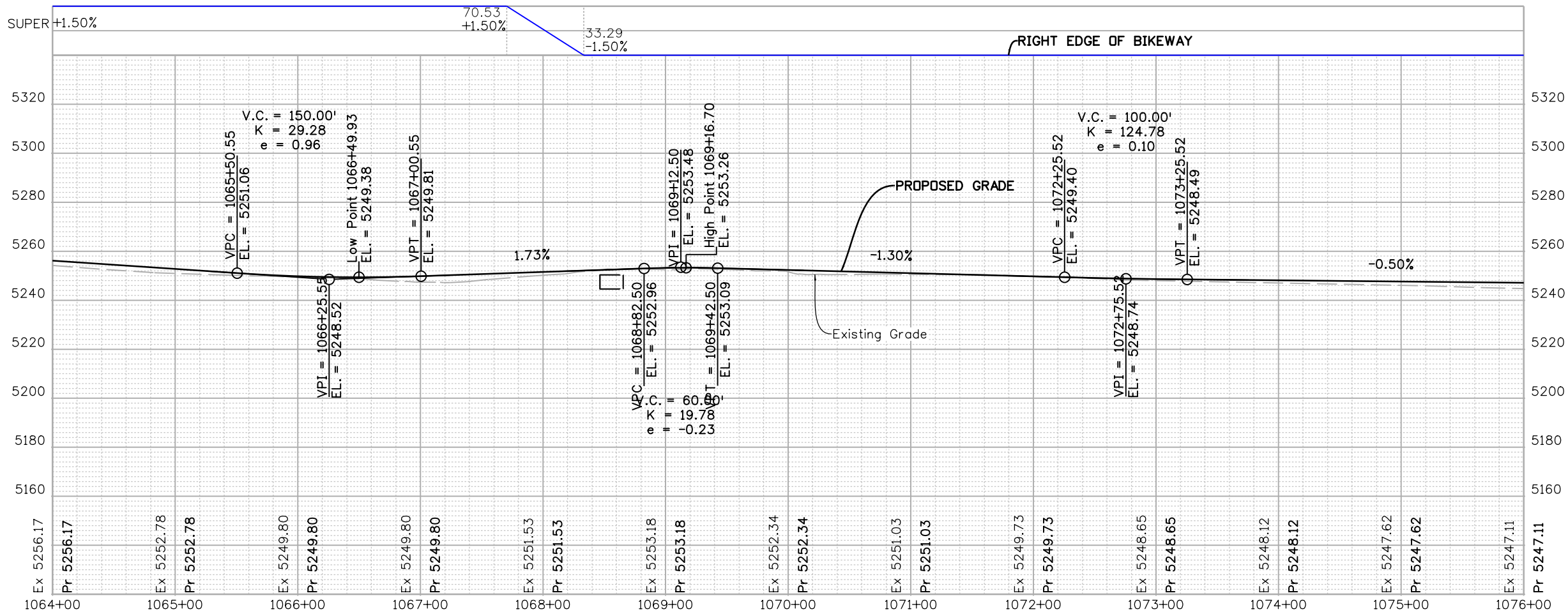
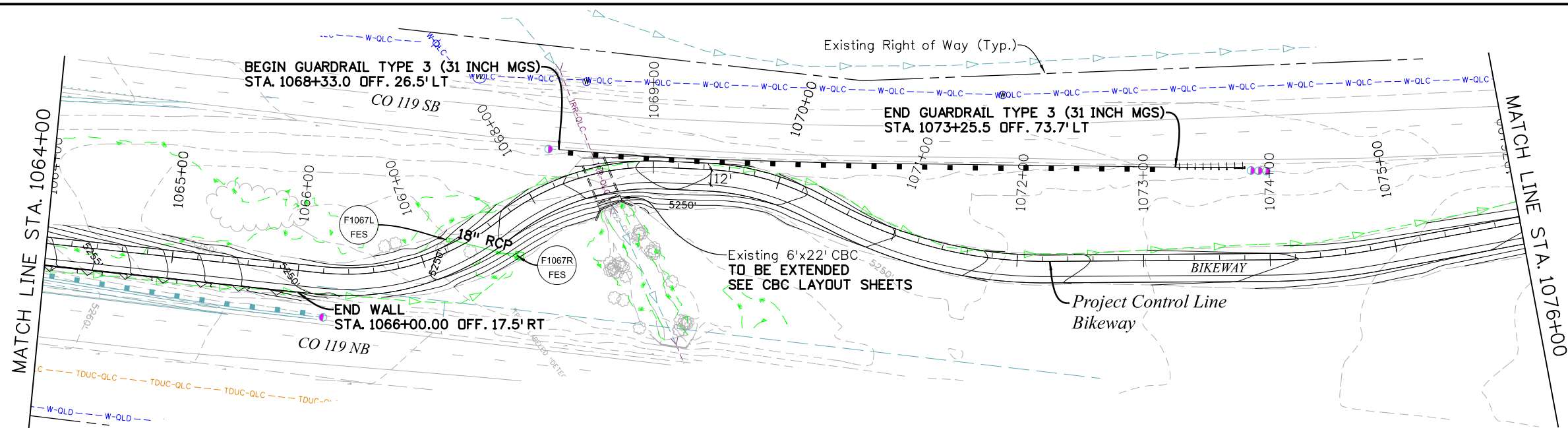
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| | Date: | Comments | Init. | | | | | | | | | | | | | | | |
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| | Designer: MMA Detailer: MDC Sheet Subset: P&P Subset Sheets: 5 of 44 | Structure Numbers 5 of 44 | | | | | | | | | | | | | | | | |

Michael Carlson 2:53:29 PM P:\mullereng-pw-bentley.com\mullereng-pw-01\Documents\2021\Projects\21-015.01 CO 119 Bikeway\01 Pre-Construction\Sheets\300_21015_RD_Bkwy Pln 06



| All seals for this set of drawings are applied to the cover page(s) | Print Date: 6/28/2022 File Name: 300_21015_RD_Bkwy Pln 06.dgn Horiz. Scale: 1"=100' Vert. Scale: As Noted Unit Information | Sheet Revisions <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Date:</th> <th>Comments</th> <th>Init.</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table> | Date: | Comments | Init. | | | | | | | | | | | As Constructed No Revisions: Revised: Void: | CD 119 BIKEWAY BIKEWAY PLAN & PROFILE | Project No./Code Sheet Number 30 |
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| | Designer: MMA Detailer: MDC Sheet Subset: P&P Subset Sheets: 6 of 44 | Structure Numbers Sheet Number 30 | | | | | | | | | | | | | | | | |

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All seals for this set of drawings are applied to the cover page(s)

Print Date: 6/28/2022
 File Name: 300_21015_RD_Bkwy Pln 07.dgn
 Horiz. Scale: 1"=100' Vert. Scale: As Noted
 Unit Information

| Sheet Revisions | | |
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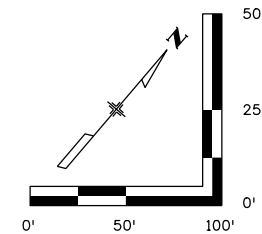
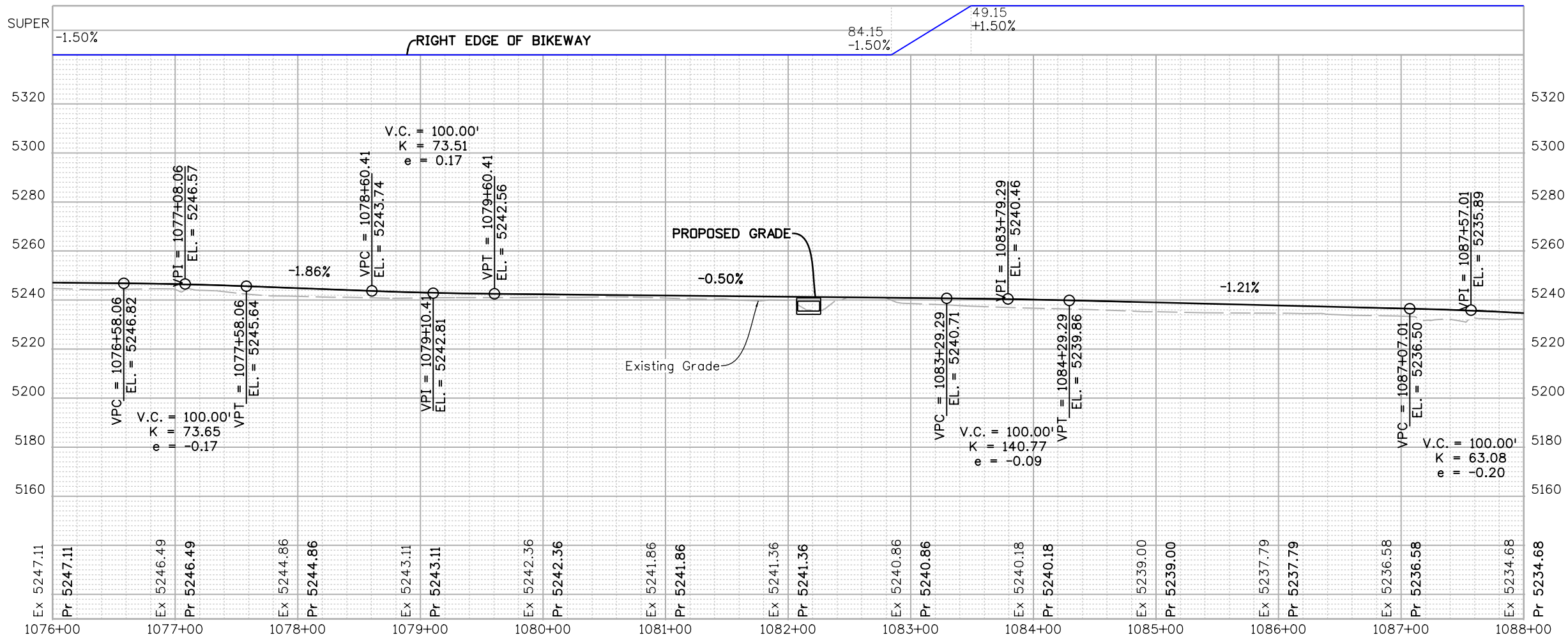
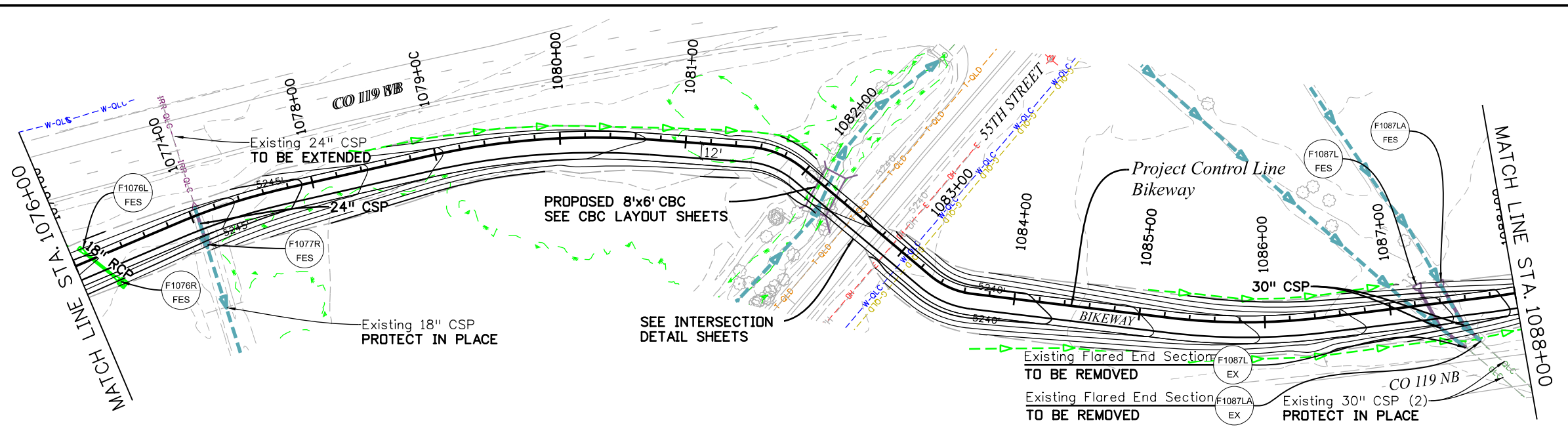
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BIKEWAY PLAN & PROFILE

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| Detailer: | MDC | | |
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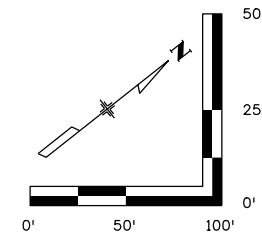
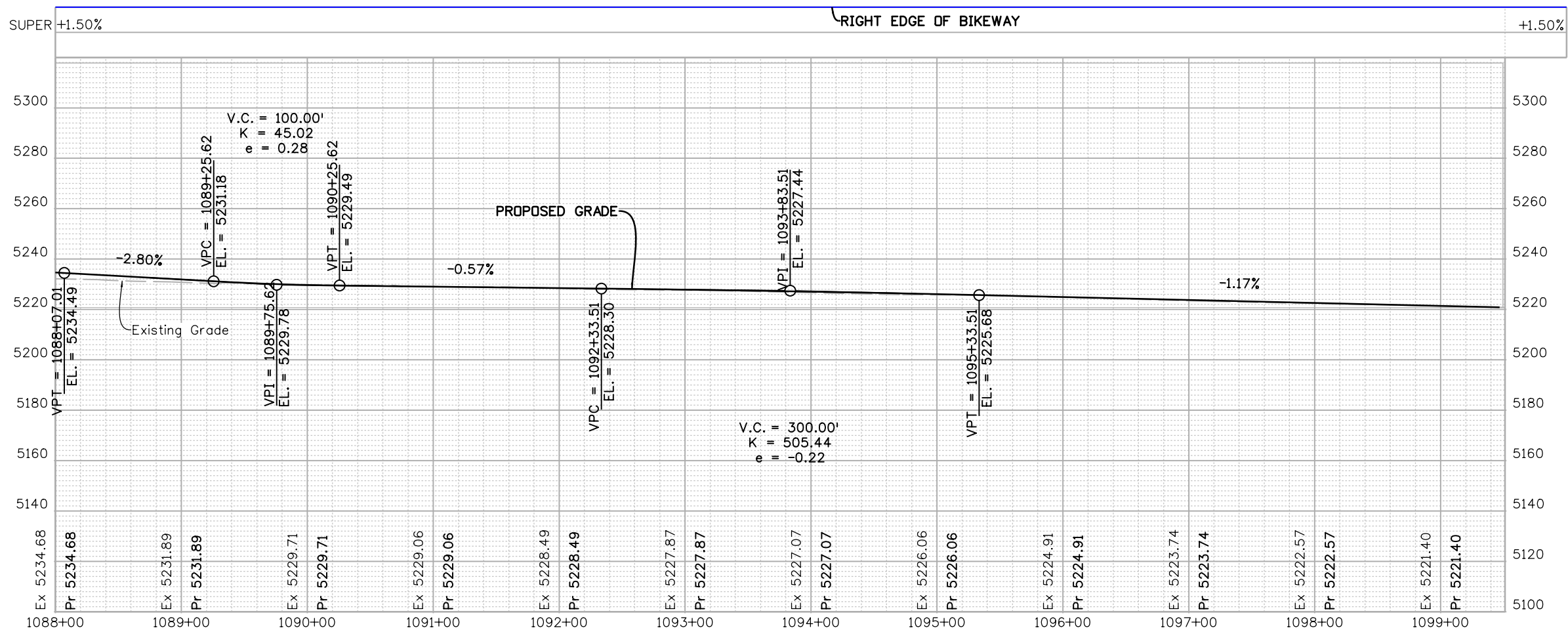
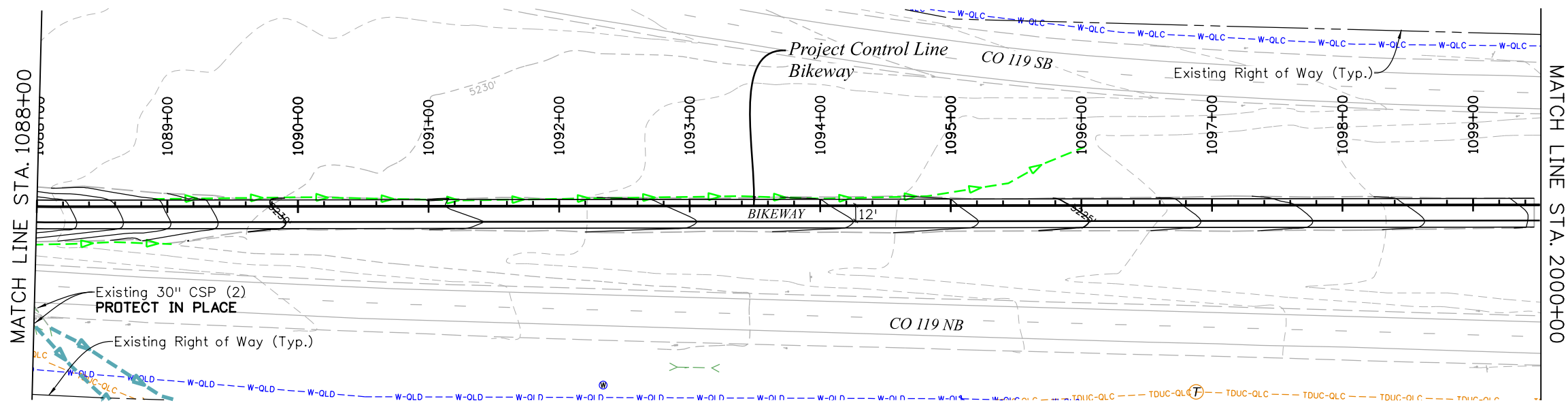
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| All seals for this set of drawings are applied to the cover page(s) | Print Date: 6/28/2022 File Name: 300_21015_RD_Bkwy Pln 08.dgn Horiz. Scale: 1"=100' Vert. Scale: As Noted Unit Information | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3">Sheet Revisions</th> </tr> <tr> <th>Date:</th> <th>Comments</th> <th>Init.</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table> | Sheet Revisions | | | Date: | Comments | Init. | | | | | | | | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2">As Constructed</td> </tr> <tr> <td>No Revisions:</td> <td> </td> </tr> <tr> <td>Revised:</td> <td> </td> </tr> <tr> <td>Void:</td> <td> </td> </tr> </table> | As Constructed | | No Revisions: | | Revised: | | Void: | | CO 119 BIKEWAY BIKEWAY PLAN & PROFILE | Project No./Code Sheet Number 32 |
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All seals for this set of drawings are applied to the cover page(s)

Print Date: 6/28/2022
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 Horiz. Scale: 1"=100' Vert. Scale: As Noted
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 ENGINEERING COMPANY

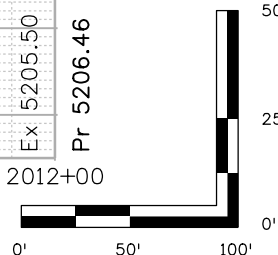
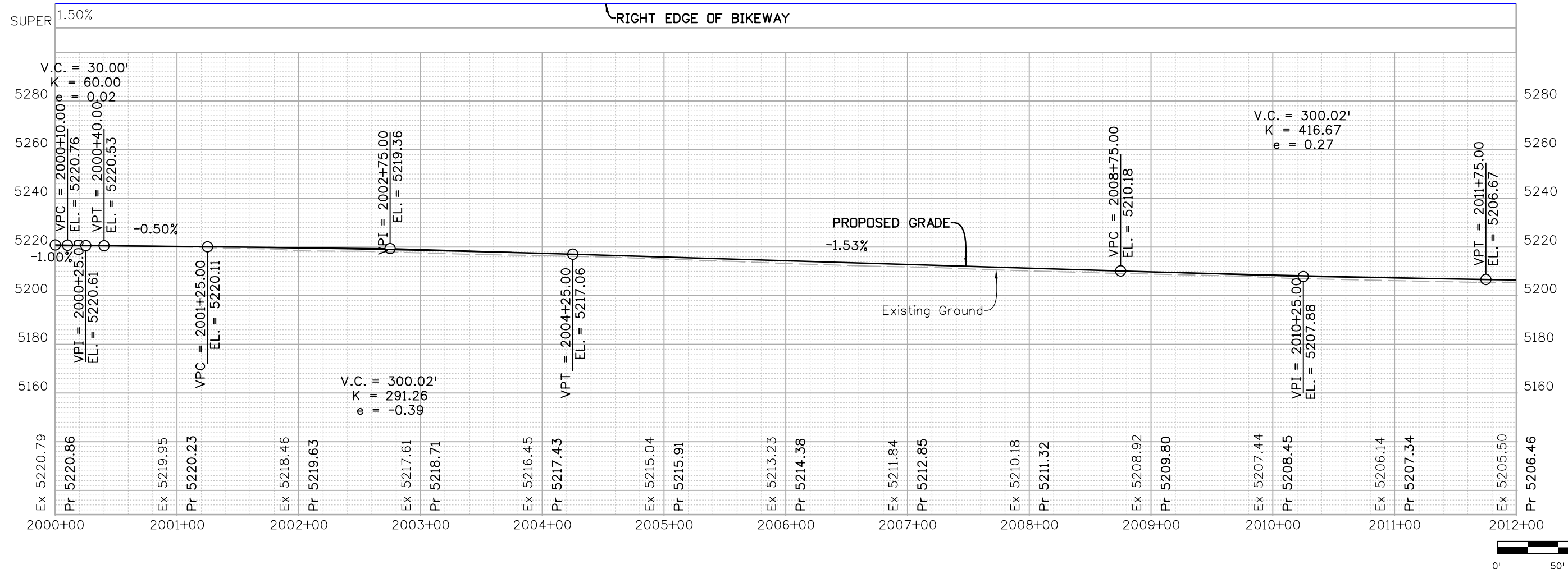
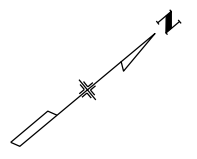
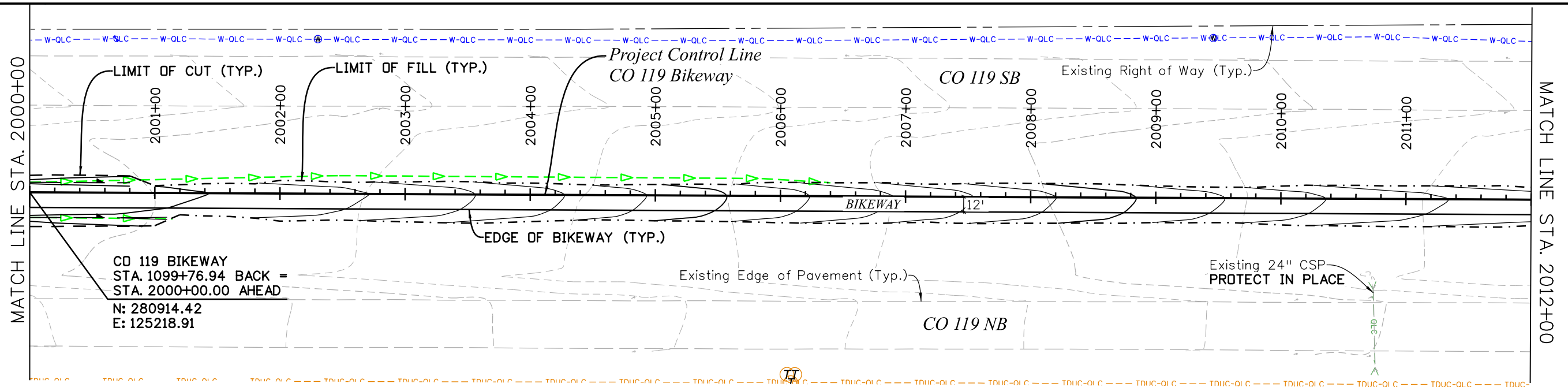
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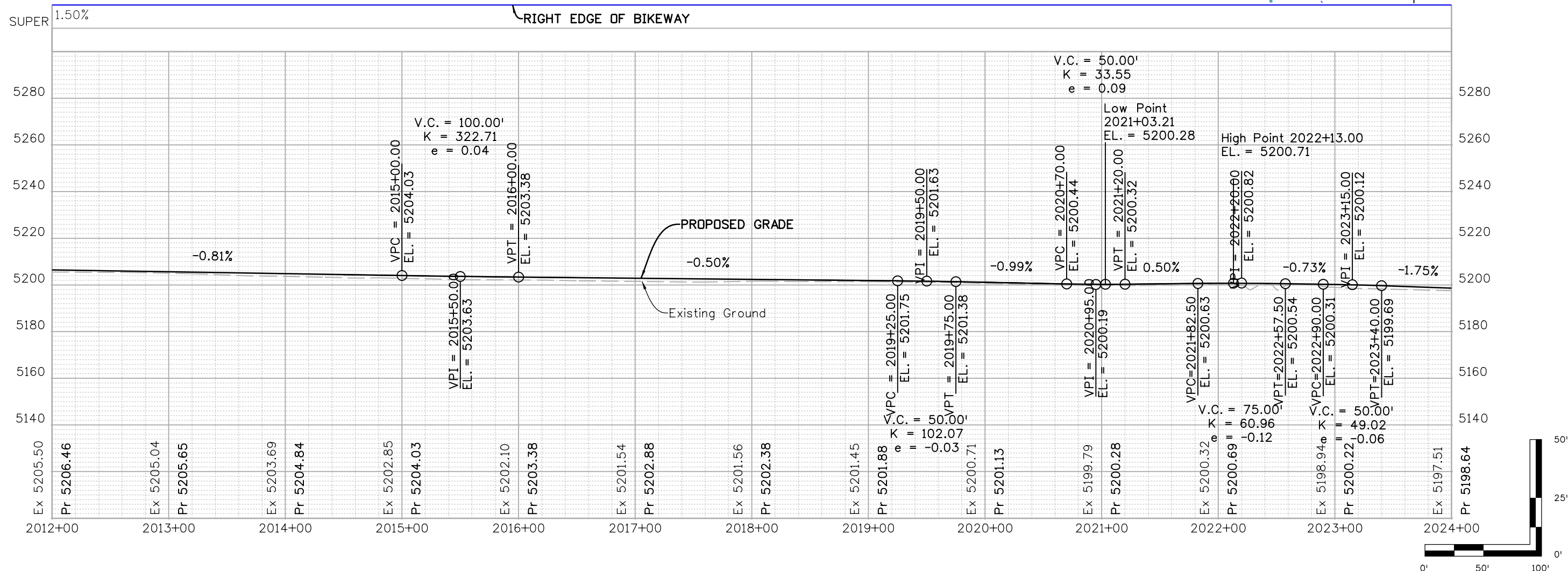
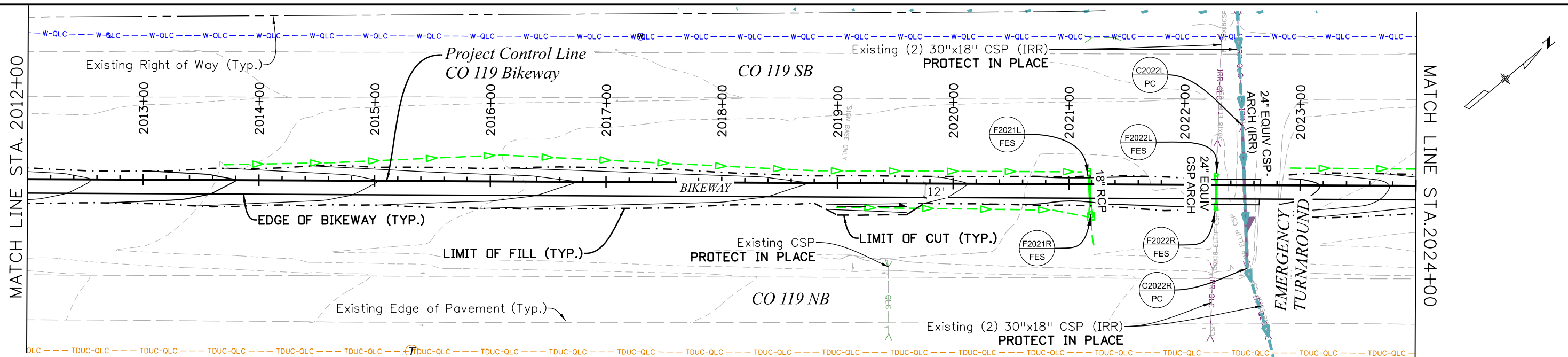
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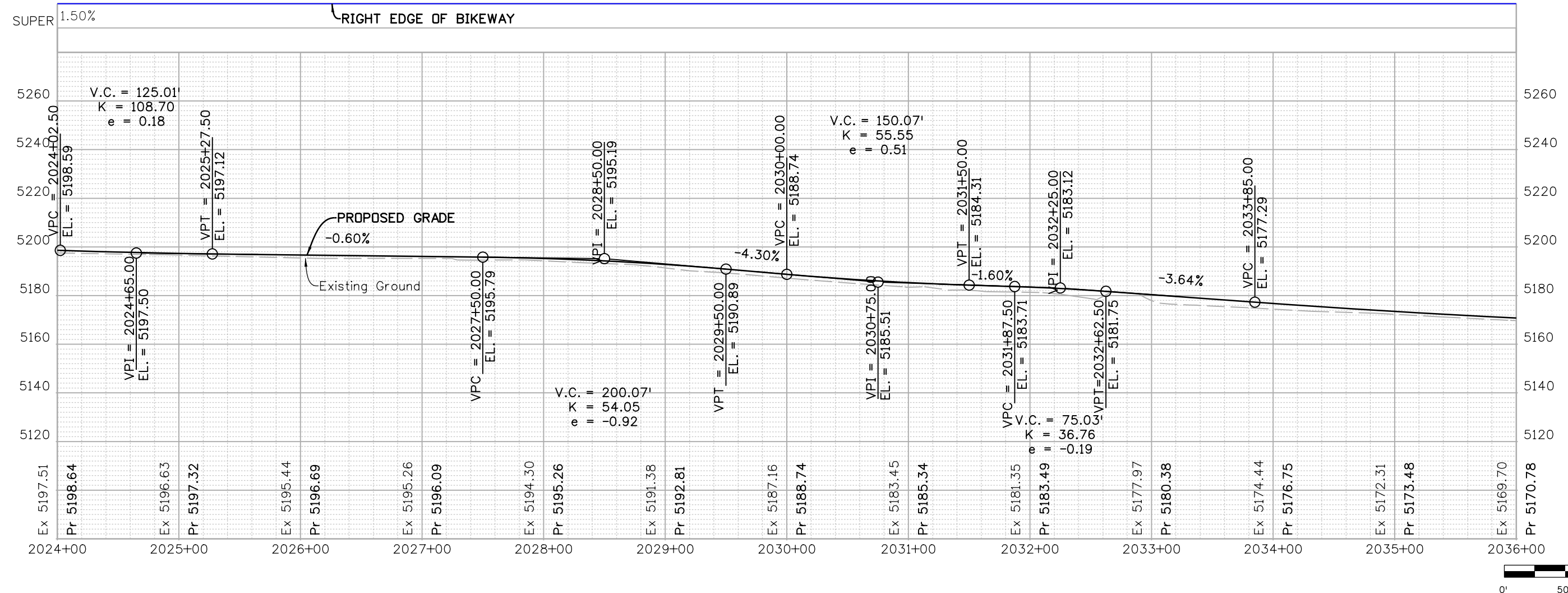
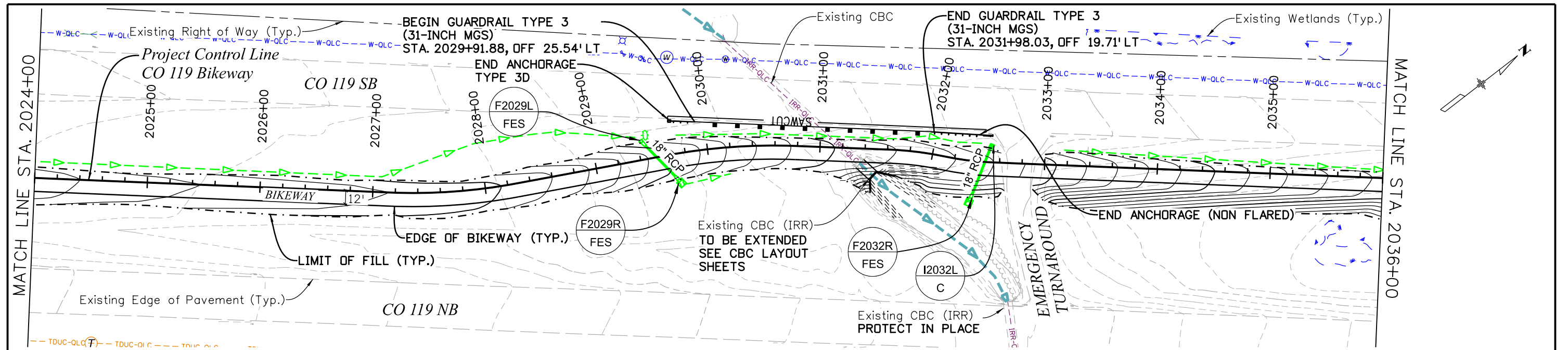
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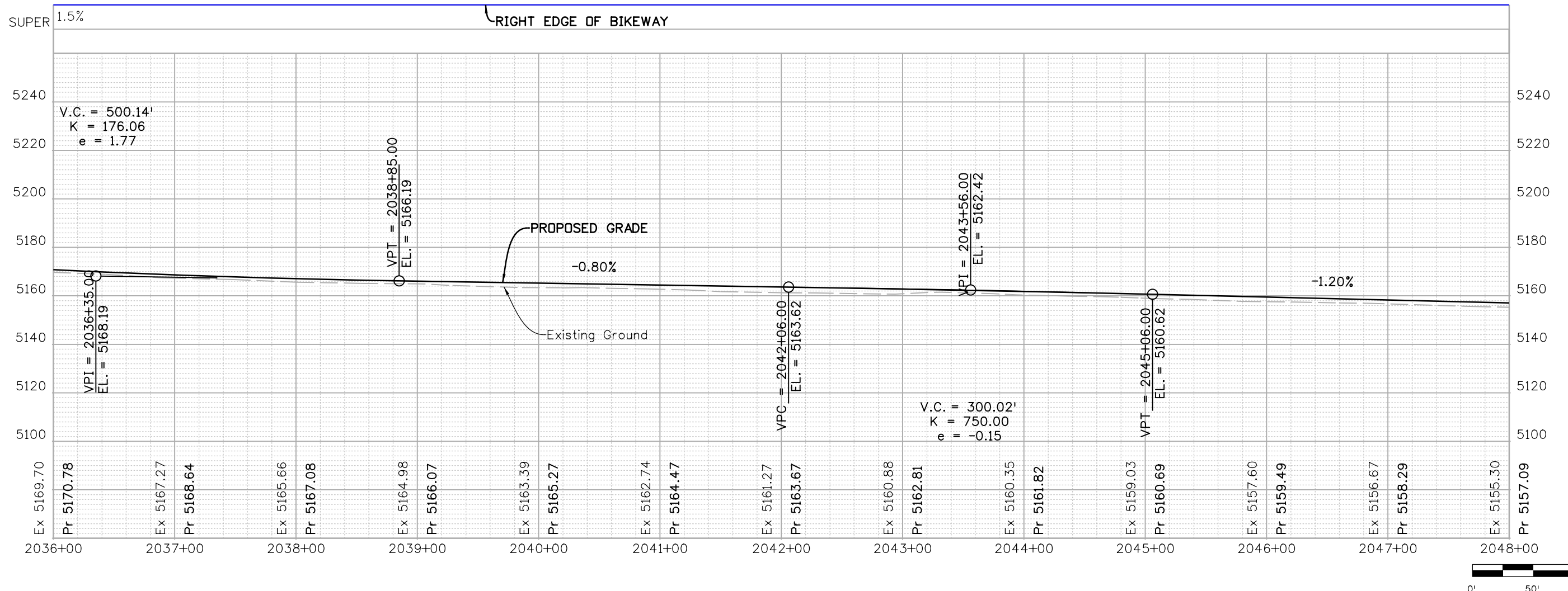
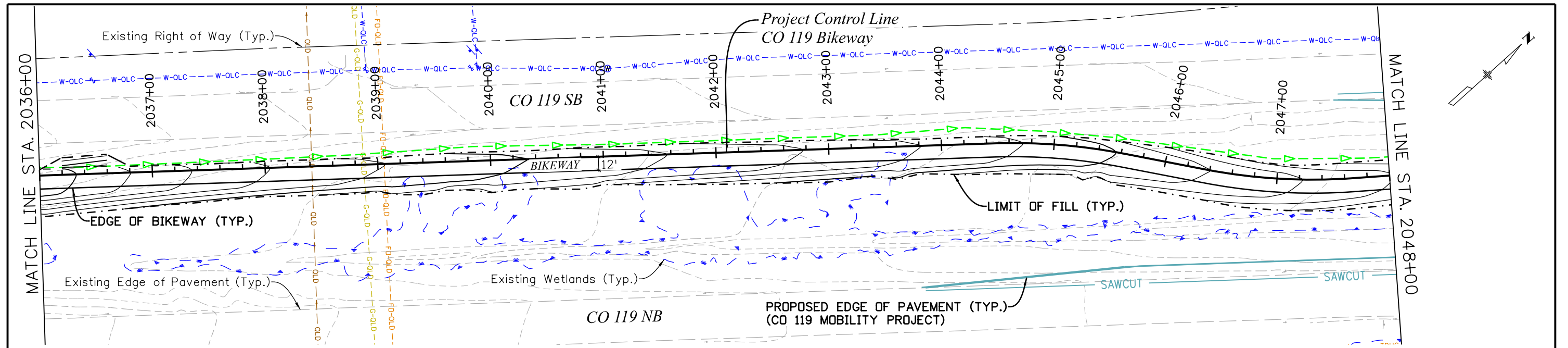
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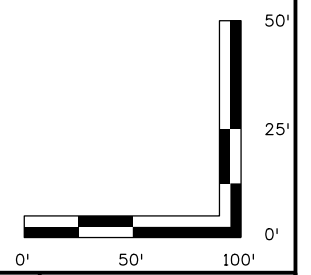
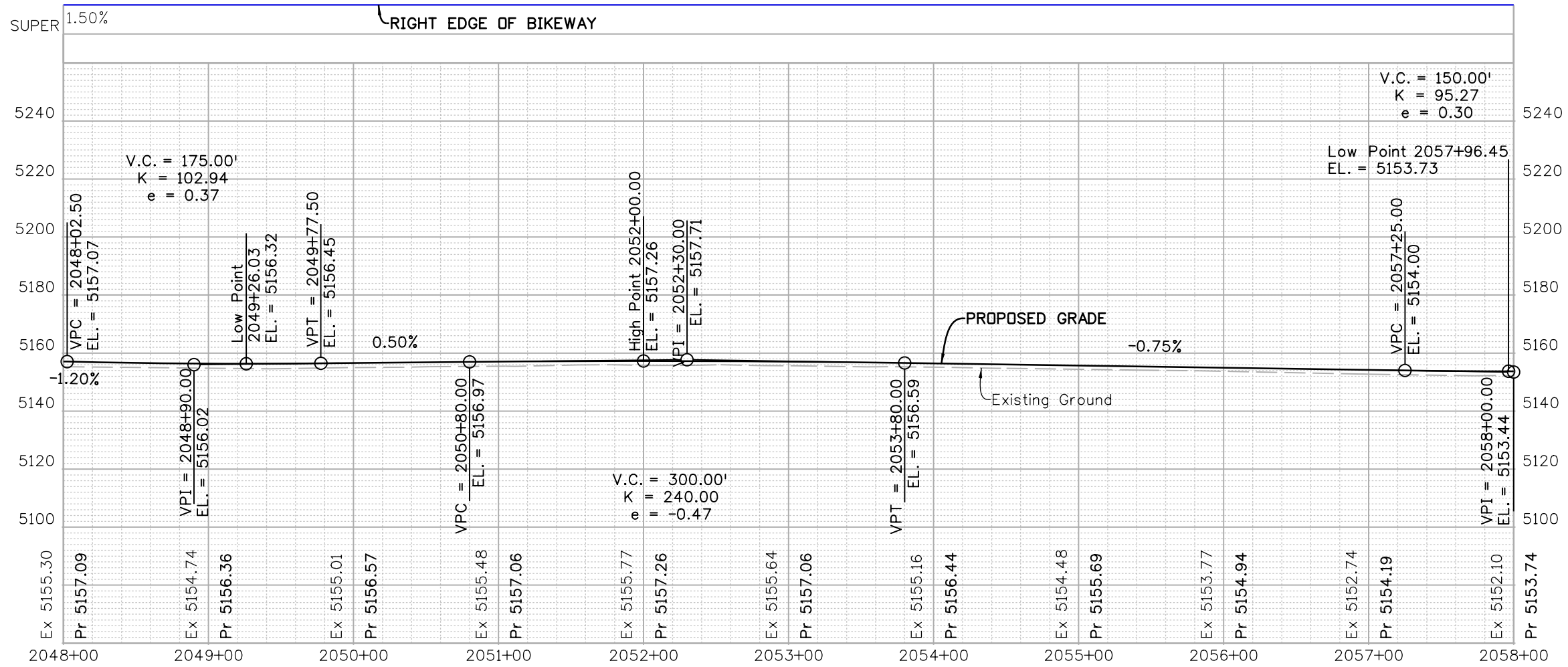
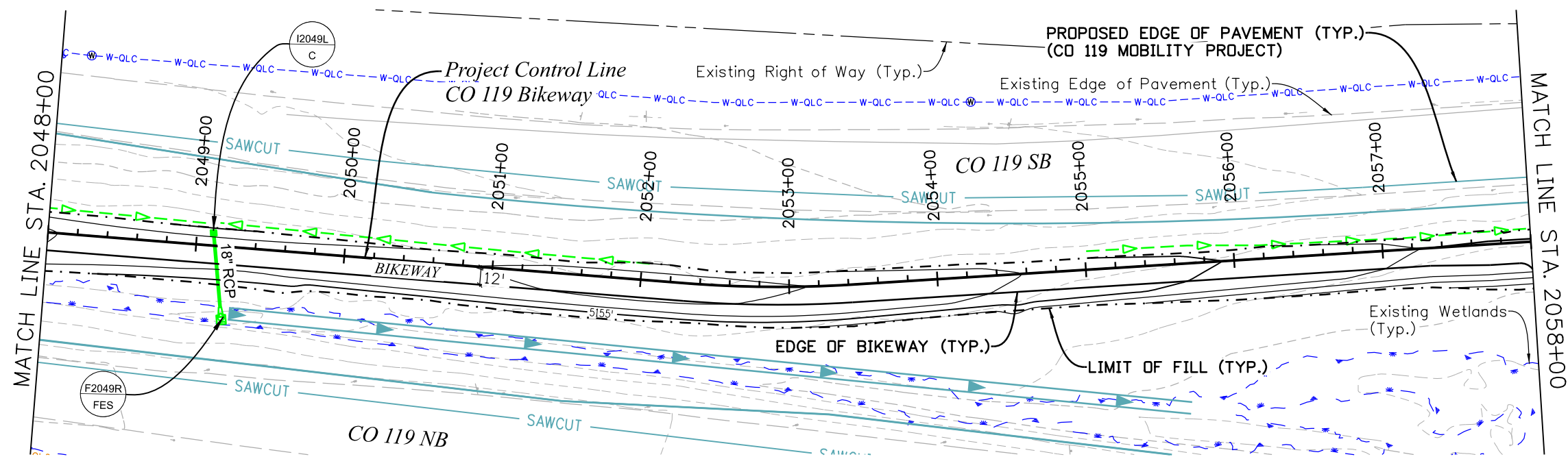
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| | Designer: RML Detailer: PDP Sheet Subset: P&P Subset Sheets: 12 of 44 | | | | | | | | | | | | | | | | | |
| Sheet Number 36 | | | | | | | | | | | | | | | | | | |

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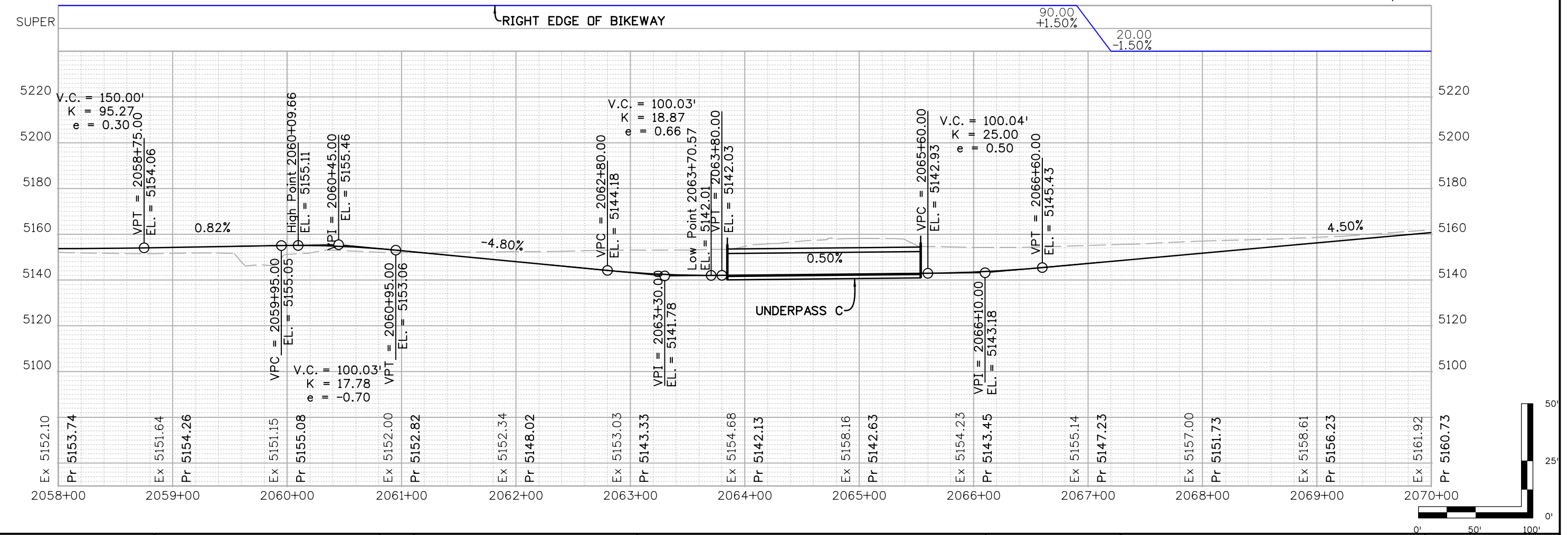
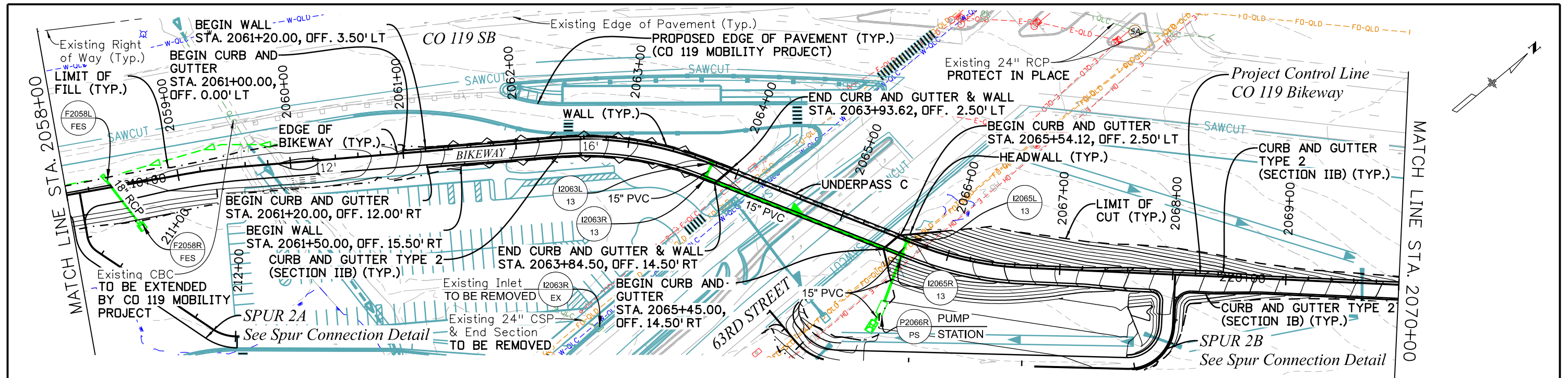
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| | Date: | Comments | | Init. | | | | | | | | | | | | | | | |
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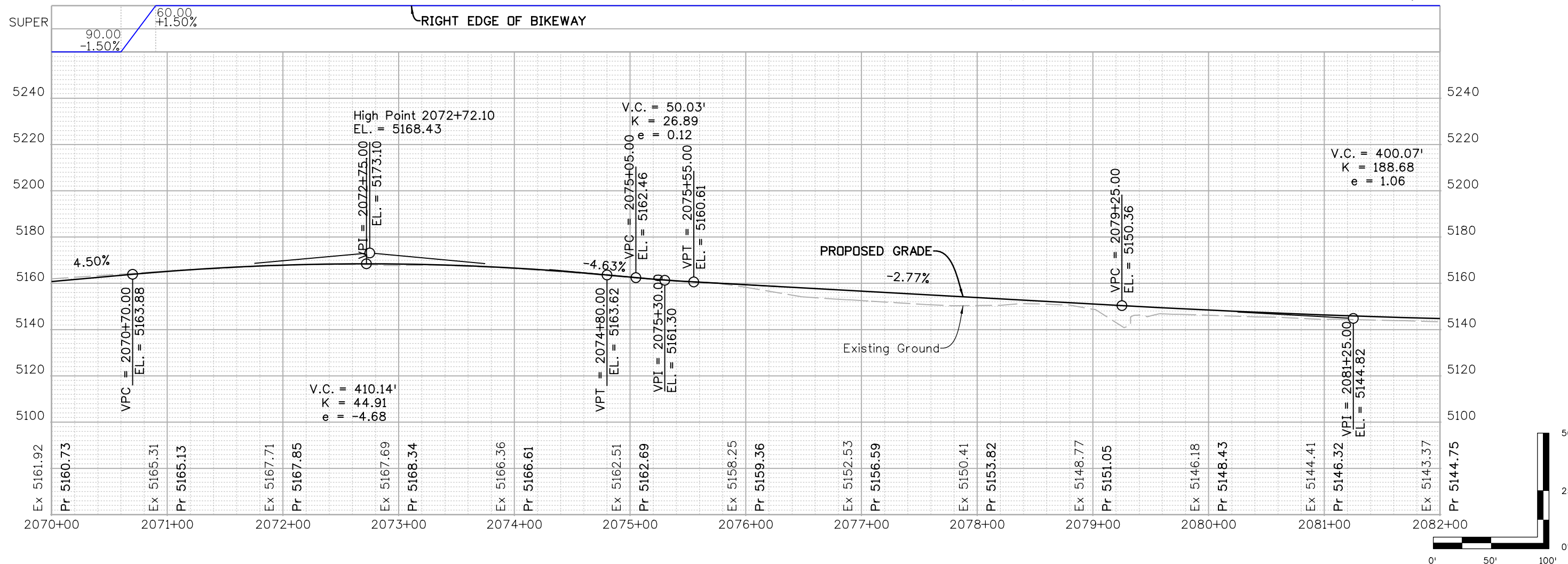
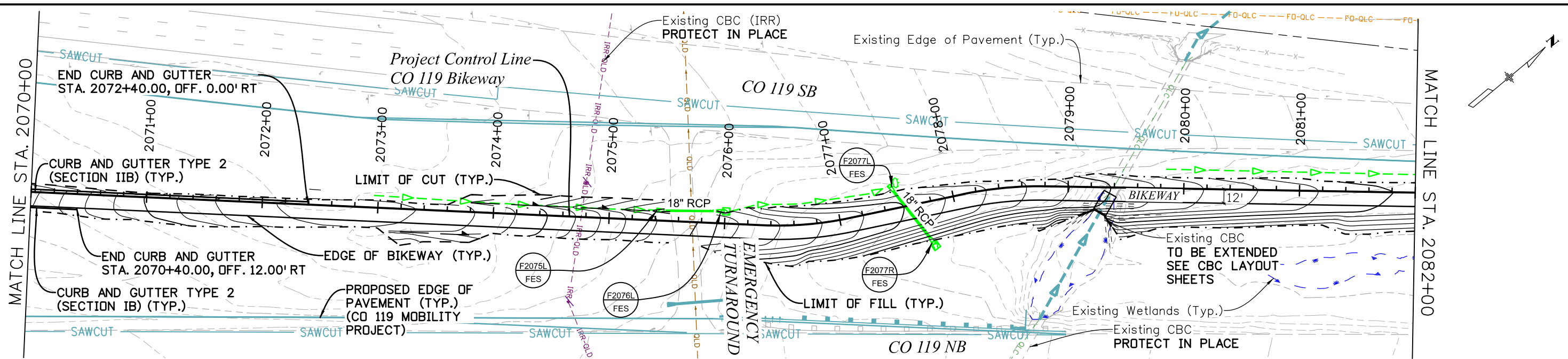
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| Sheet Subset: P&P | Subset Sheets: 14 of 44 | | | | | | | | | | | | | | | | | |
| | | | | | | Sheet Number 38 | | | | | | | | | | | | |

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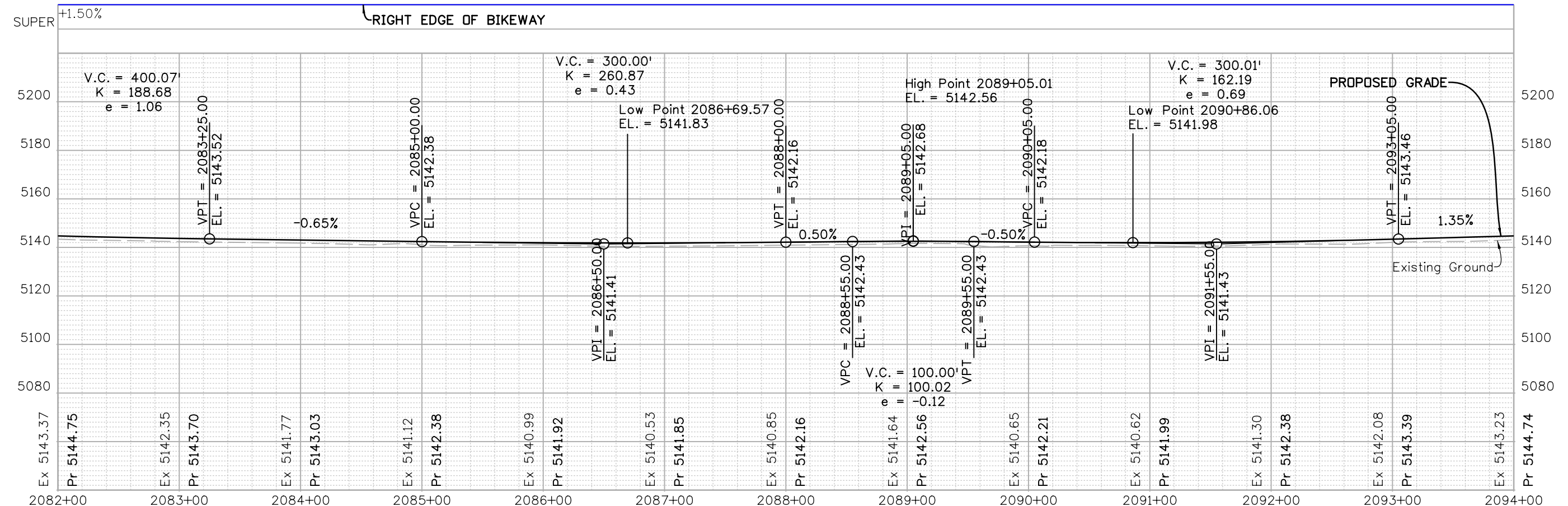
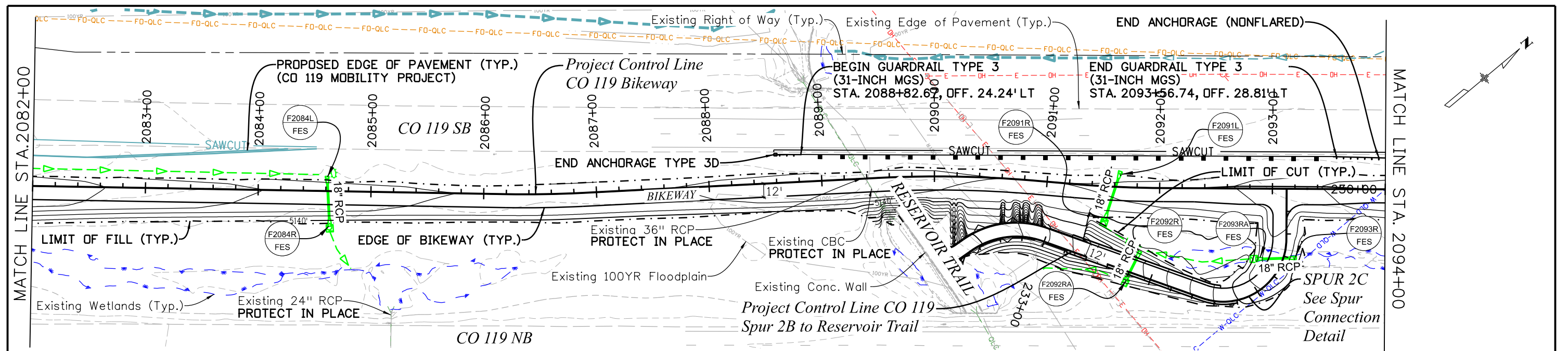
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| | Date: | Comments | | Init. | | | | | | | | | | | | | | | |
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| Unit Information | Void: | Sheet Subset: P&P | Subset Sheets: 15 of 44 | Sheet Number 39 | | | | | | | | | | | | | | | |

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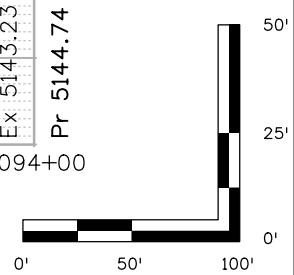


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| | Void: | | Sheet Subset: P&P | Subset Sheets: 16 of 44 | Sheet Number 40 | | |

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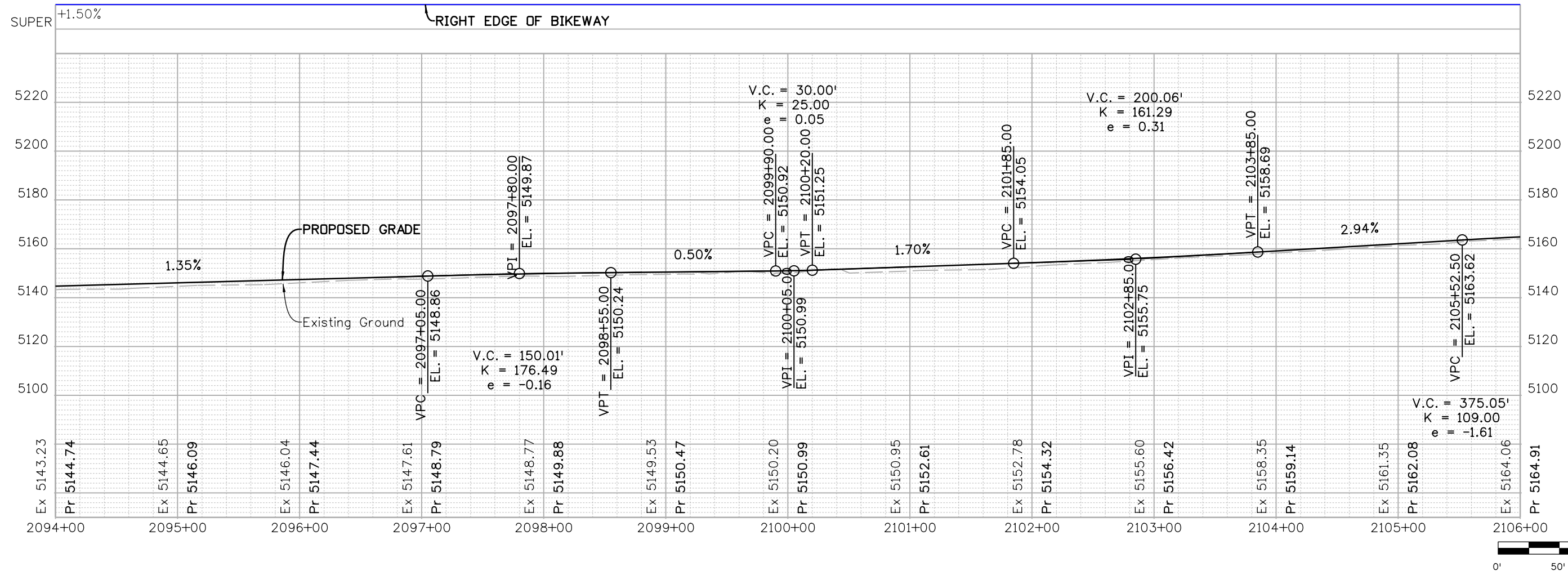
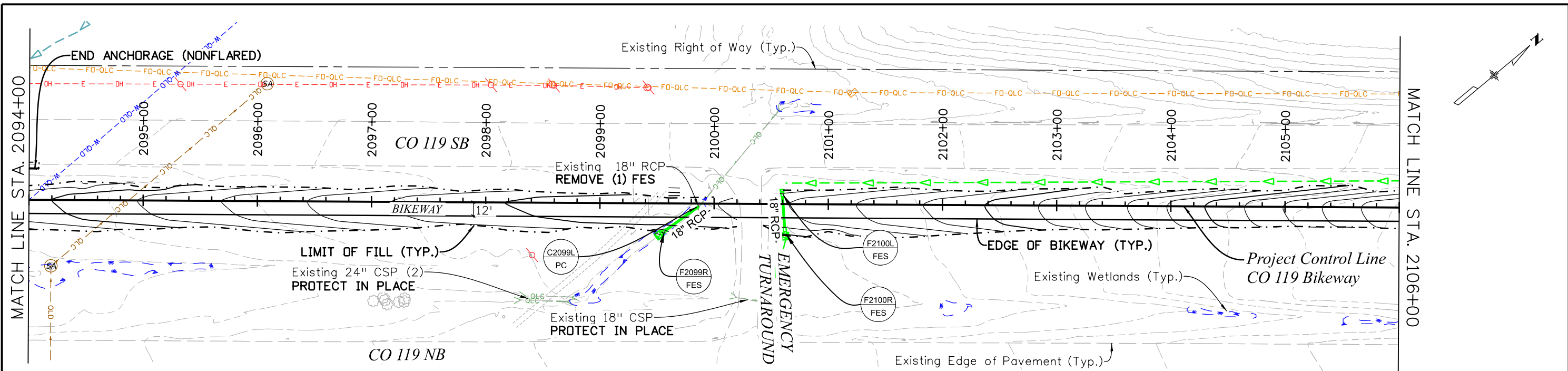


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| Ex 5143.37 | Pr 5144.75 | Ex 5142.35 | Pr 5143.70 | Ex 5141.77 | Pr 5143.03 | Ex 5141.12 | Pr 5142.38 | Ex 5140.99 | Pr 5141.92 | Ex 5140.53 | Pr 5141.85 | Ex 5140.85 | Pr 5142.16 | Ex 5141.64 | Pr 5142.56 | Ex 5140.65 | Pr 5142.21 | Ex 5140.62 | Pr 5141.99 | Ex 5141.30 | Pr 5142.38 | Ex 5142.08 | Pr 5143.39 | Ex 5143.23 | Pr 5144.74 |
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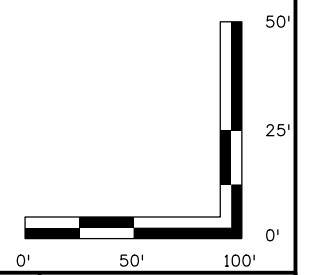
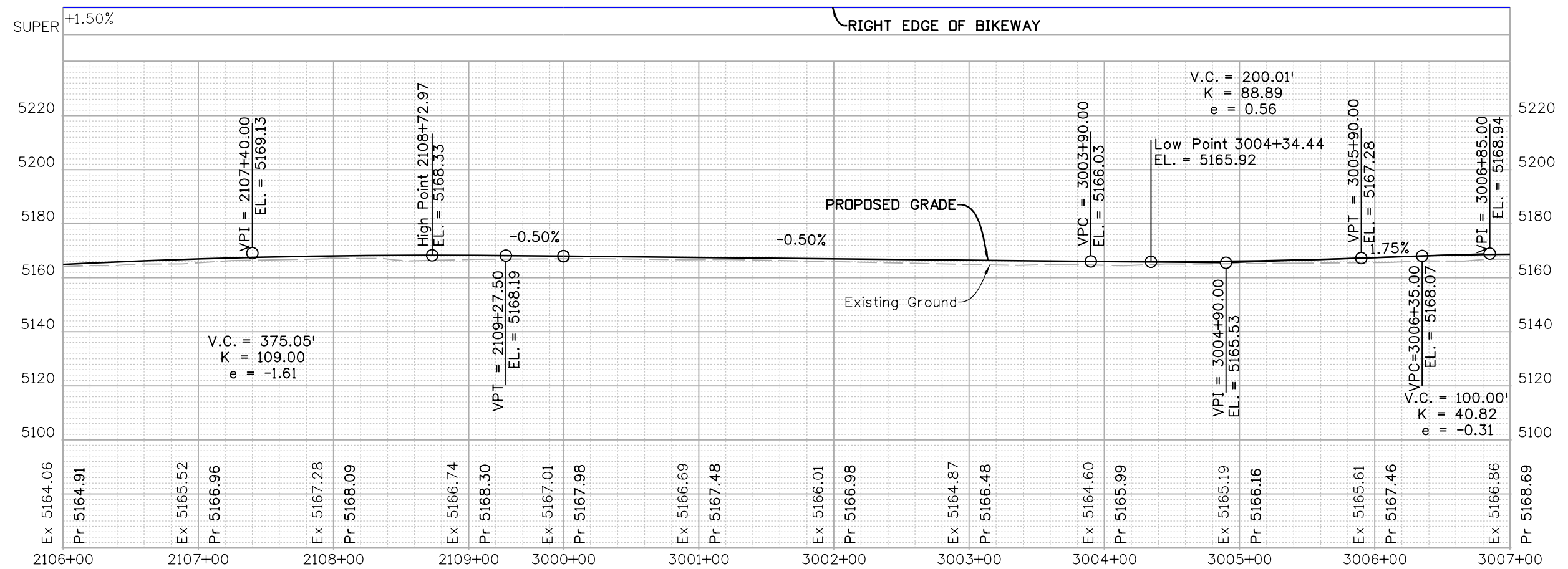
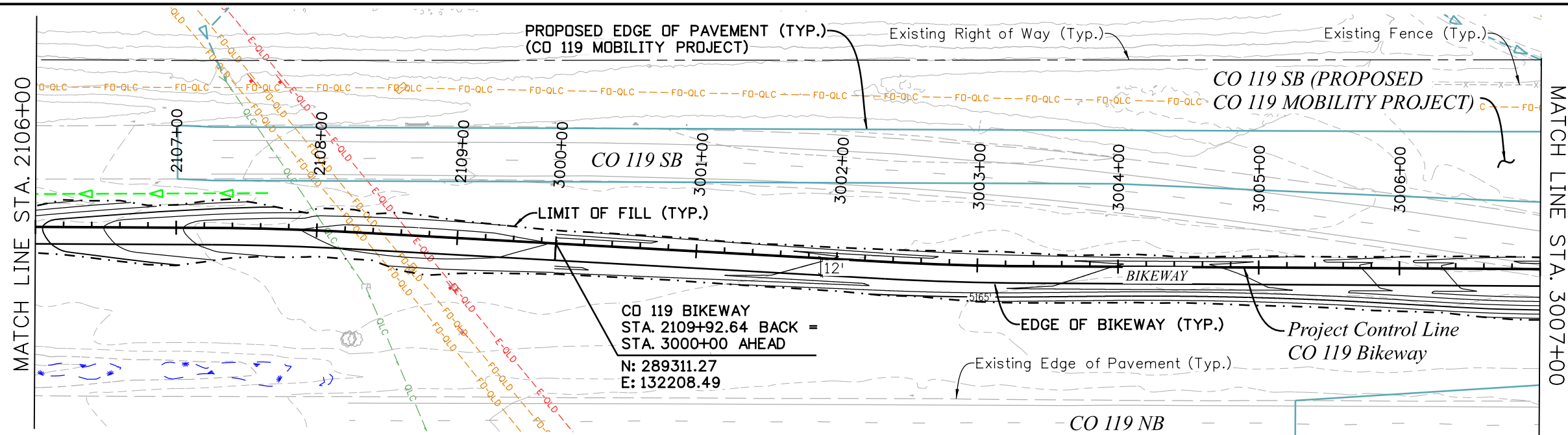
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| All seals for this set of drawings are applied to the cover page(s) | Print Date: 6/28/2022 | Sheet Revisions | | | | As Constructed | | CD 119 BIKEWAY | | Project No./Code |
| | File Name: 320_21015_RD_Bkwy Pln 17.dgn | Date: | Comments | Init. | | No Revisions: | BIKEWAY PLAN & PROFILE | | Sheet Number 41 | |
| Unit Information | Horiz. Scale: Vert. Scale: As Noted | | | | | Revised: | Designer: RML | Structure Numbers | Subset Sheets: 17 of 44 | Sheet Number 41 |
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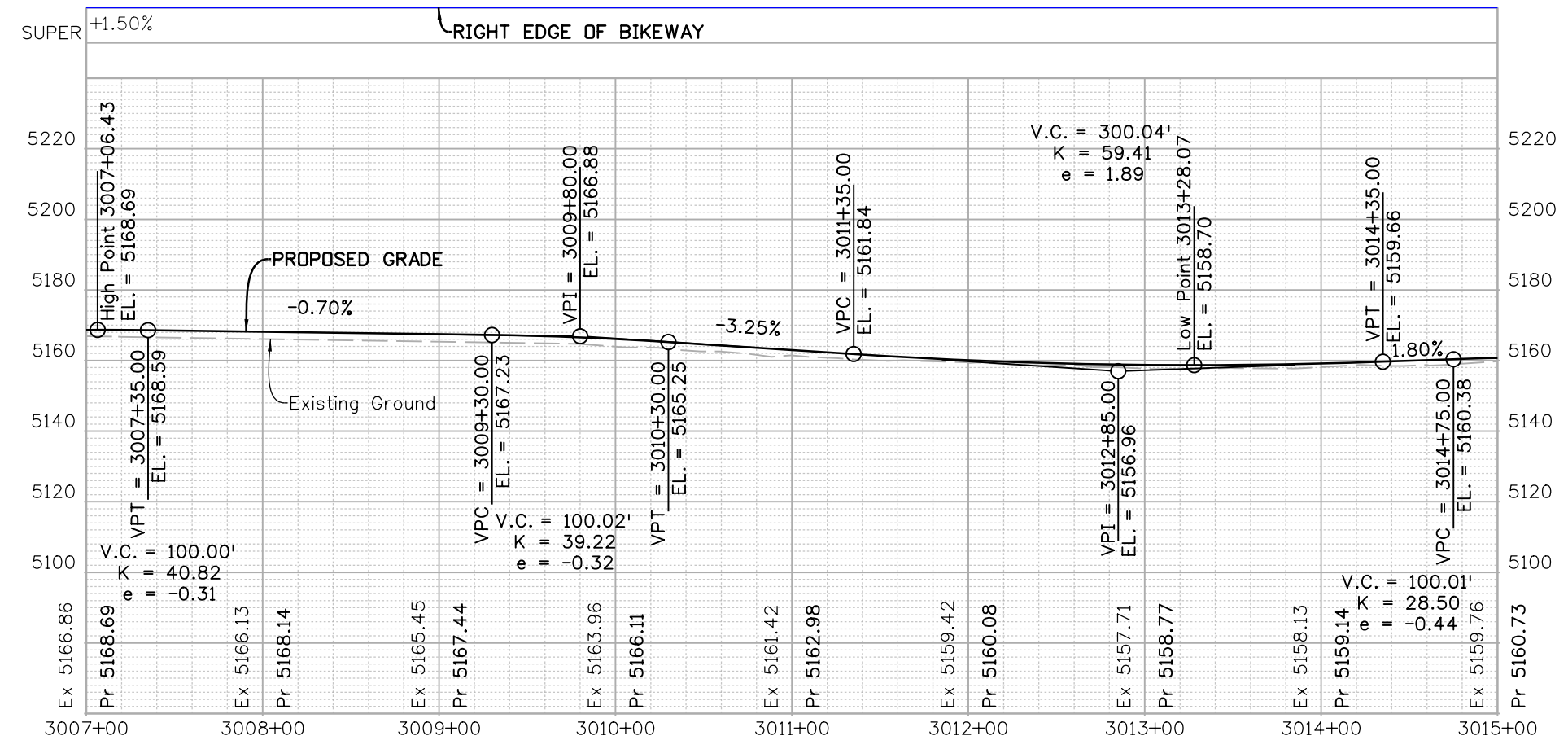
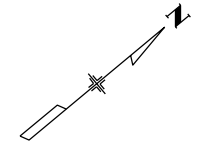
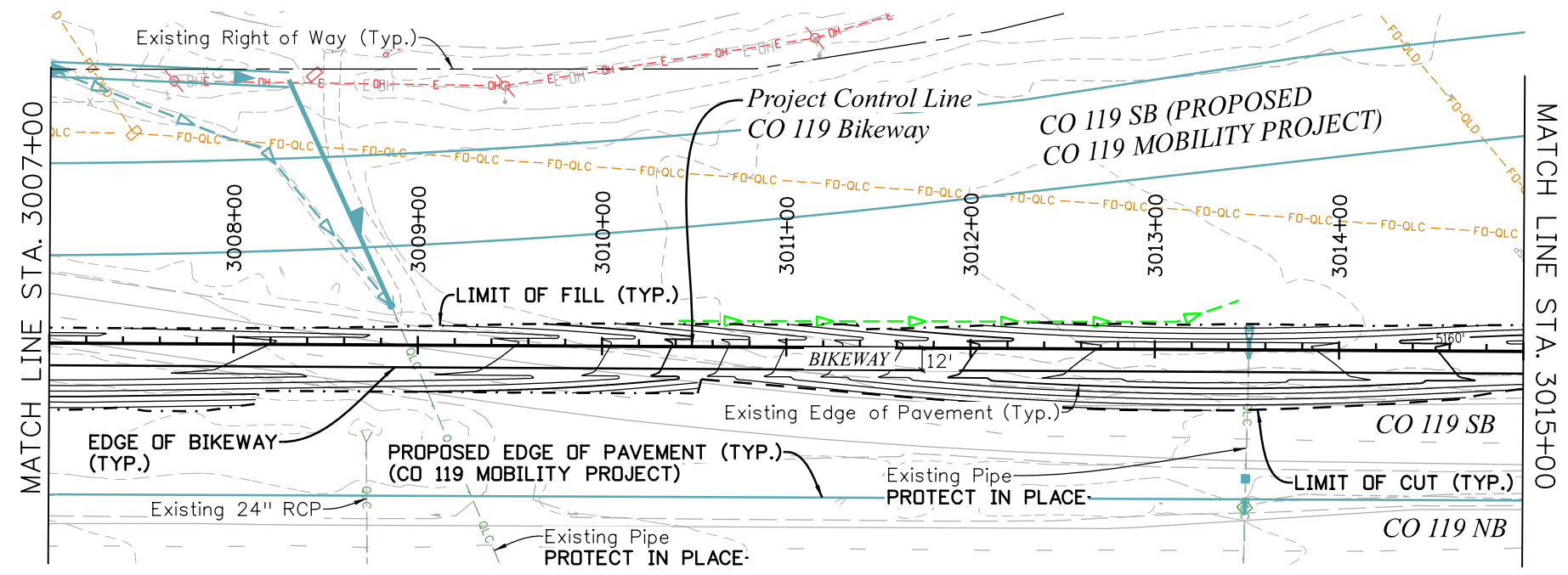
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| Horiz. Scale: Vert. Scale: As Noted Unit Information | Designer: RML Detailer: PDP Sheet Subset: P&P | Structure Numbers Subset Sheets: 18 of 44 | | | | | | | | | | | | | | | | |
| | Muller Engineering Company | Sheet Number 42 | | | | | | | | | | | | | | | | |

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| All seals for this set of drawings are applied to the cover page(s) | Print Date: 6/28/2022 File Name: 320_21015_RD_Bkwy Pln 19.dgn | | Sheet Revisions | | | | As Constructed | | CD 119 BIKEWAY BIKEWAY PLAN & PROFILE | | Project No./Code | | | | | | | | | |
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| Unit Information | Revised: | Detailer: PDP | Sheet Subset: P&P | Subset Sheets: 19 of 44 | | | | | | | | | | | | | | | | |
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 File Name: 320_21015_RD_Bkwy Pln 20.dgn
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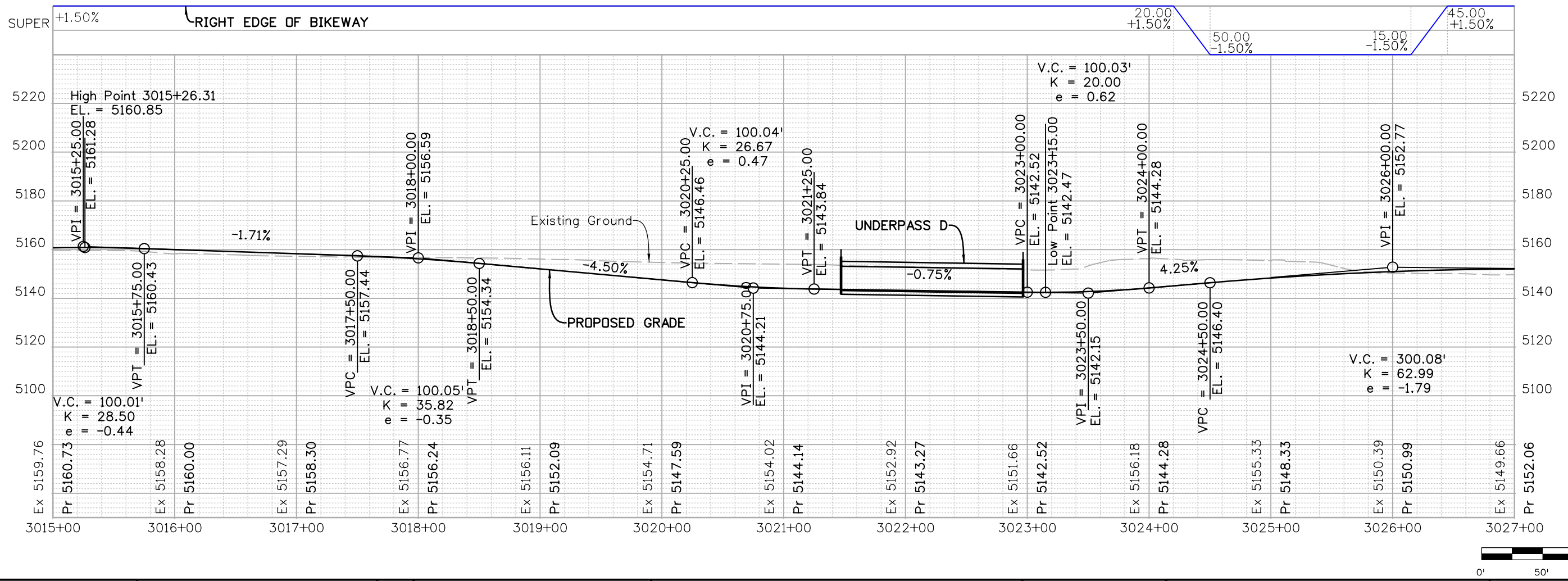
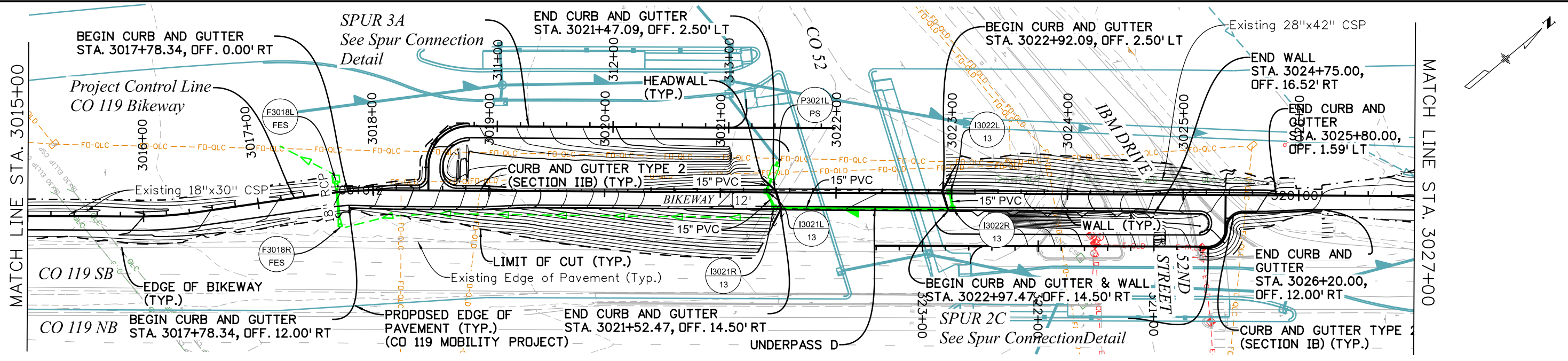
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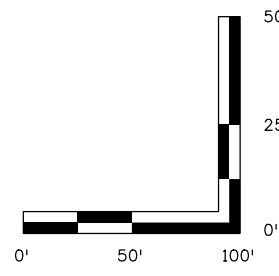
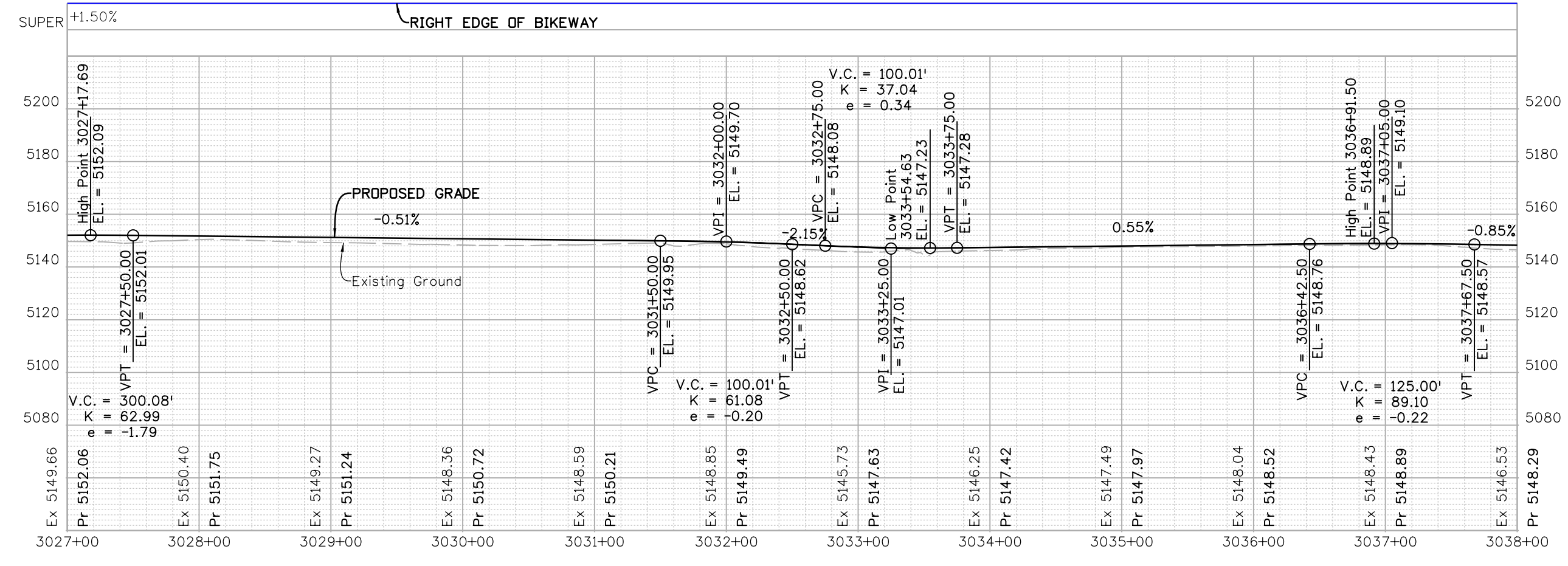
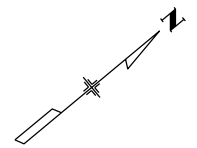
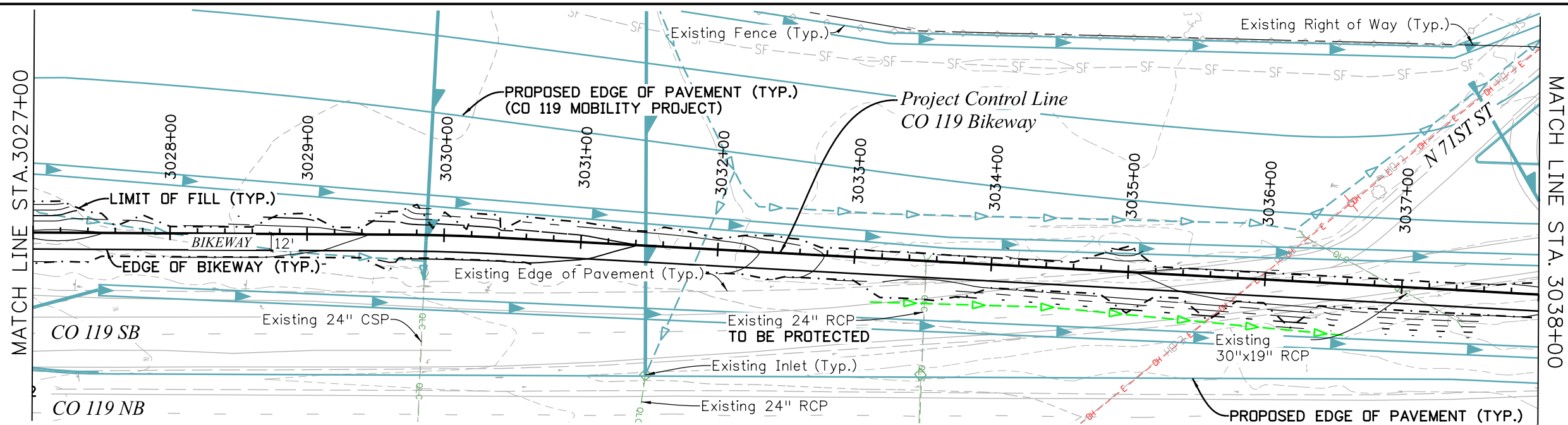
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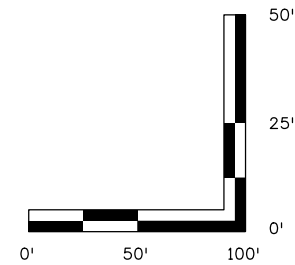
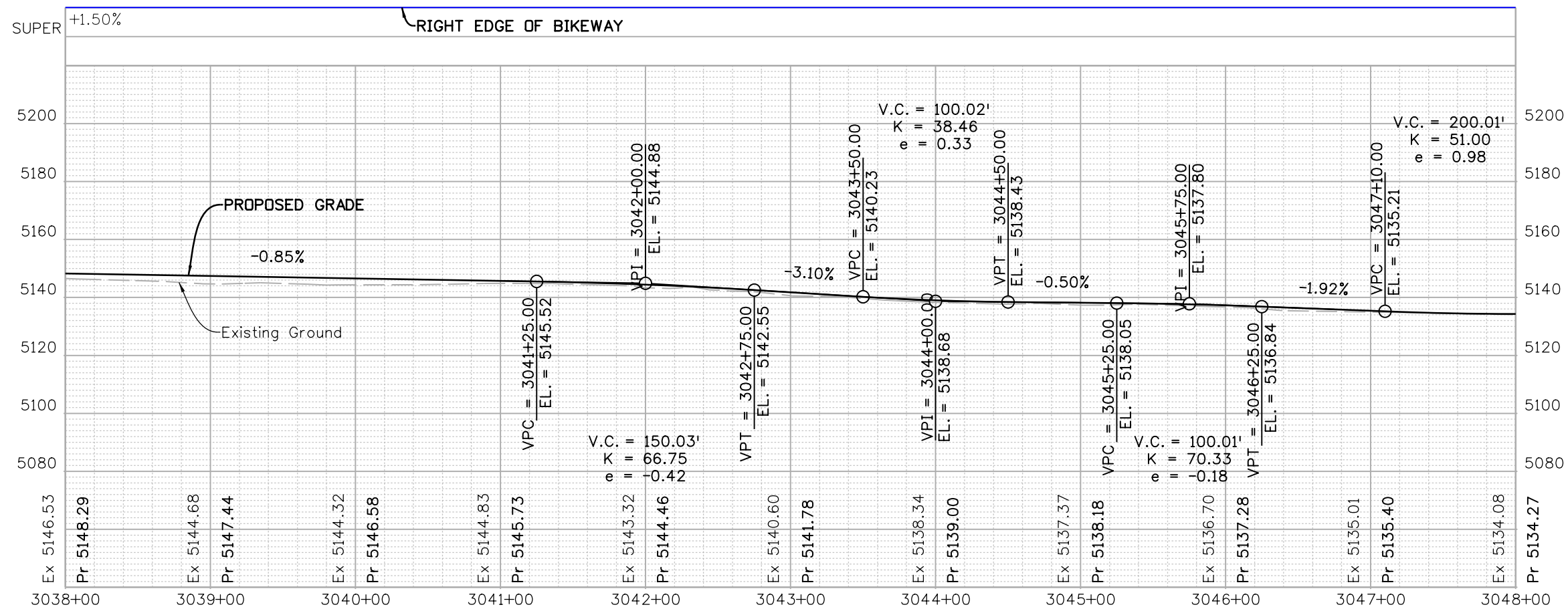
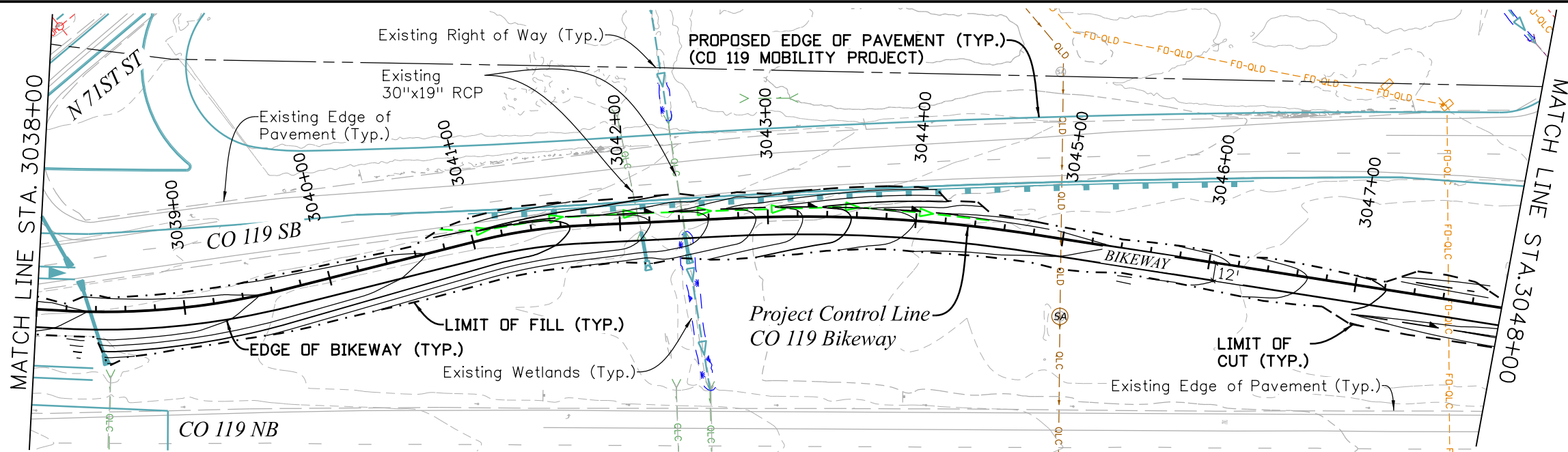
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| File Name: 320_21015_RD_Bkwy Pln 21.dgn | Designer: RML Detailer: PDP Sheet Subset: P&P | Structure Numbers Subset Sheets: 21 of 44 | | | | | | | | | | | | | | | |
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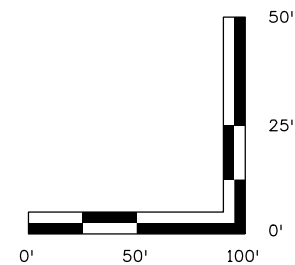
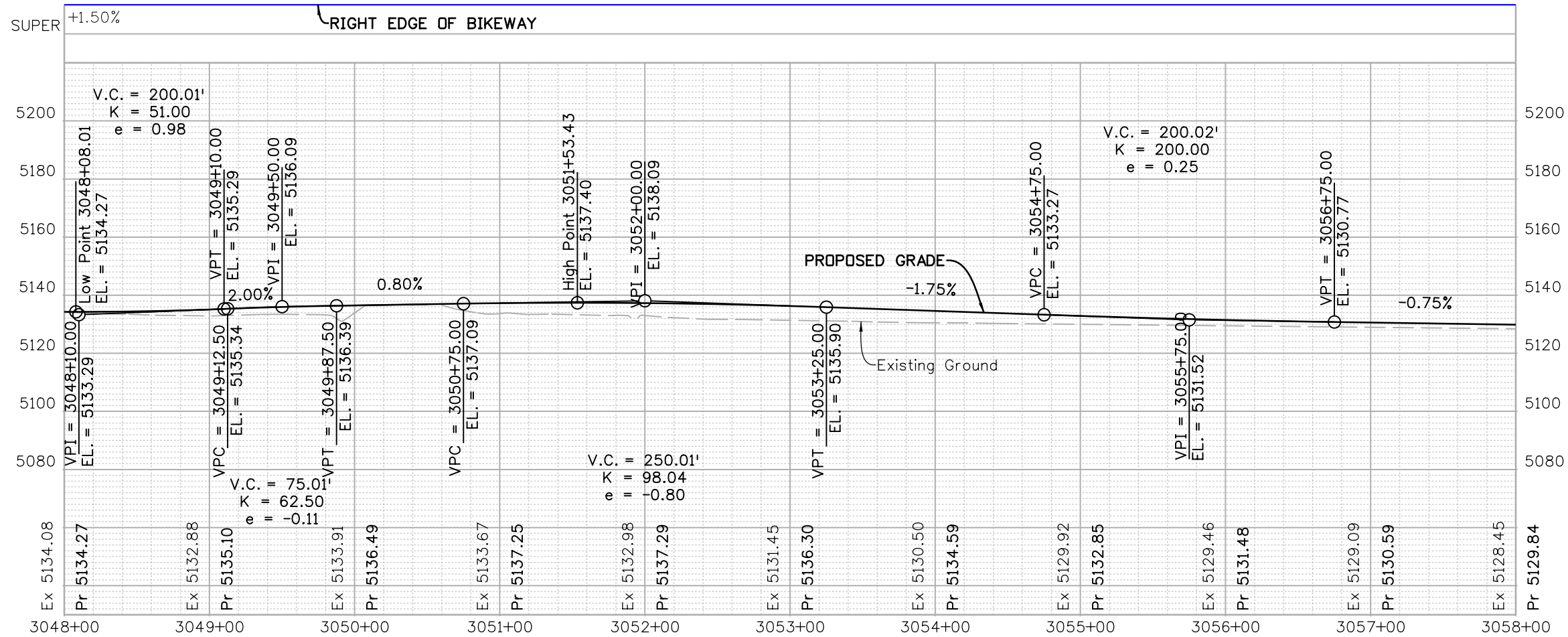
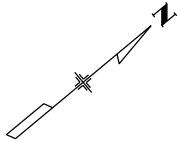
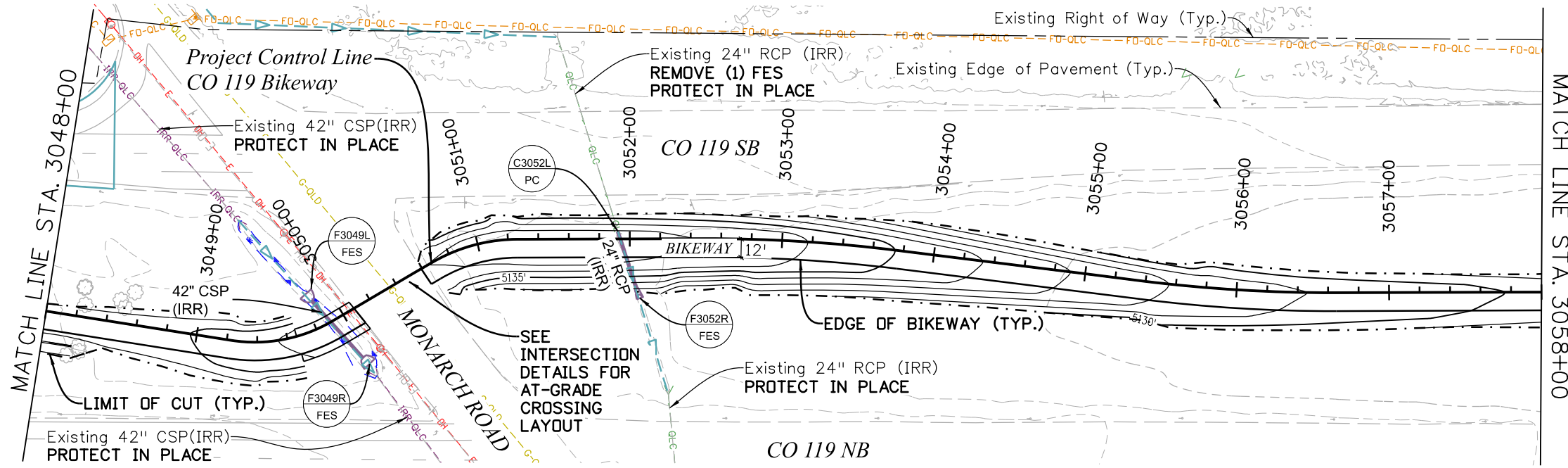
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| | Date: | | Comments | Init. | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Sheet Subset: | P&P | Subset Sheets: | 22 of 44 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Unit Information | 0000 | Sheet Number 46 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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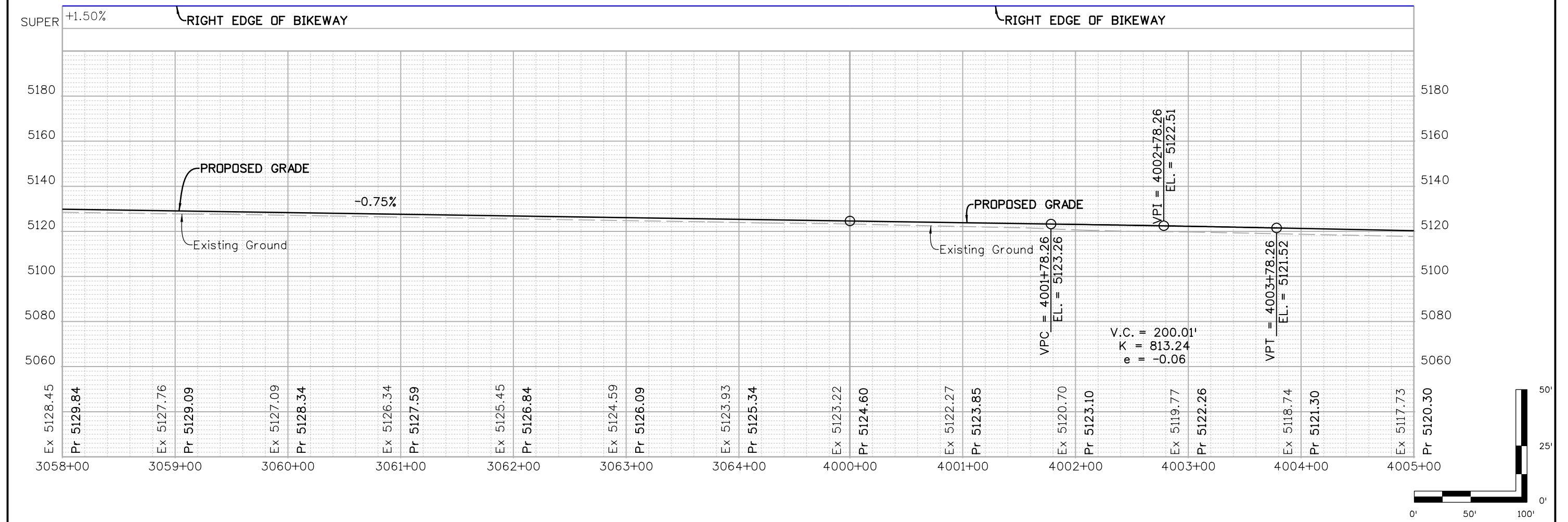
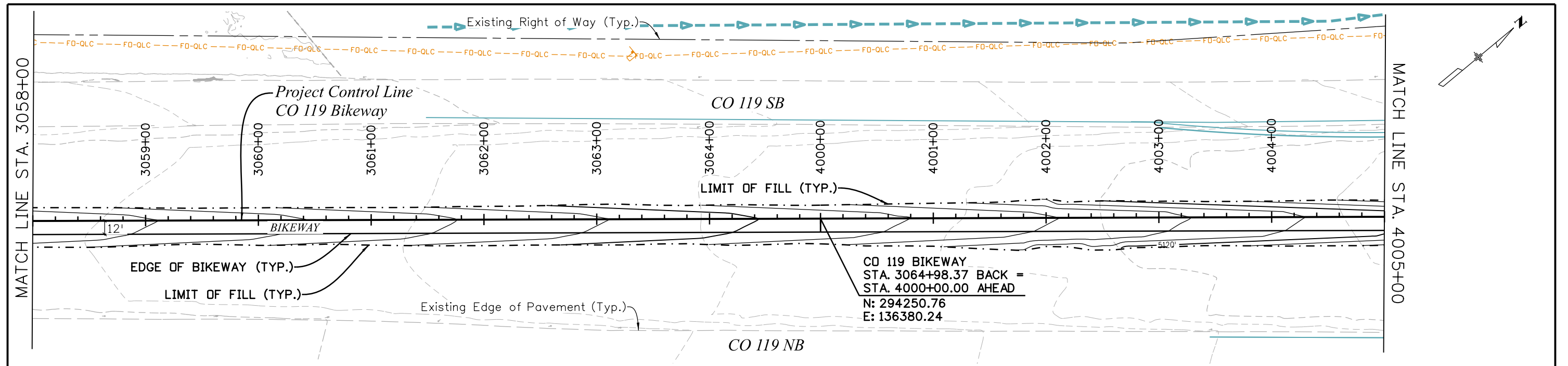
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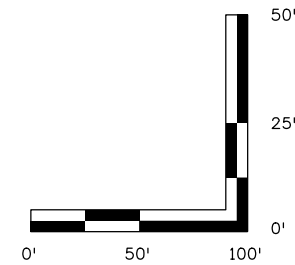
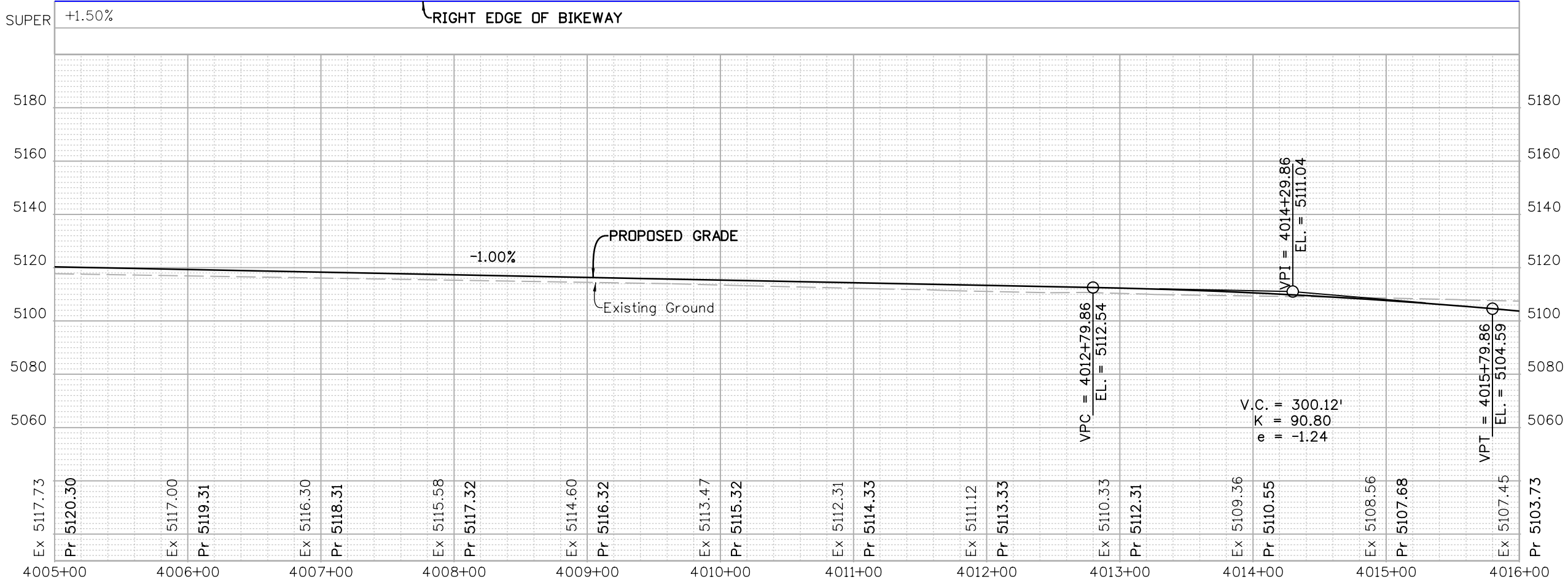
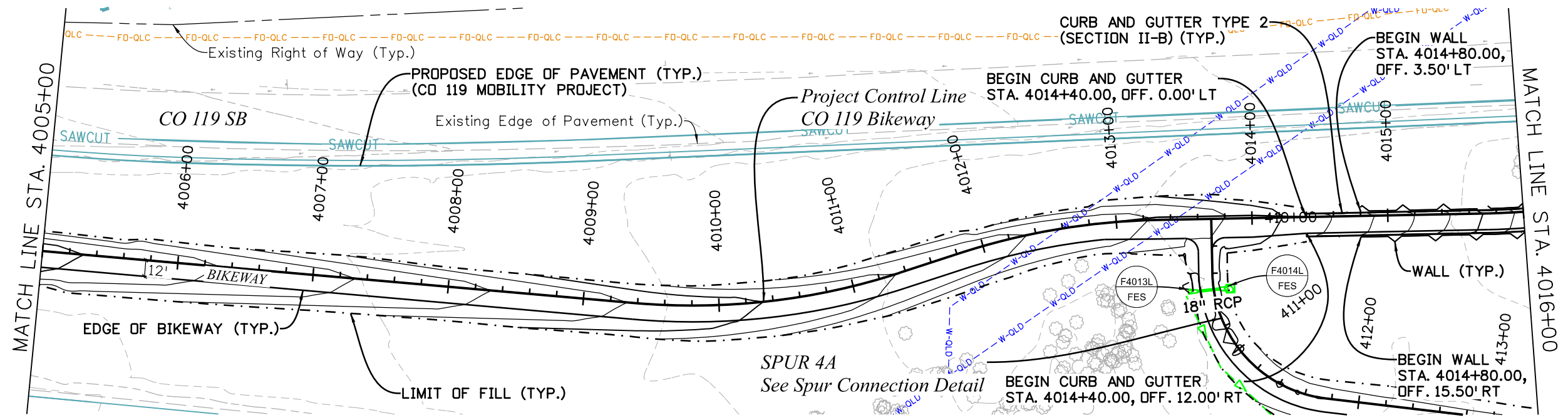
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| | Horiz. Scale: Vert. Scale: As Noted | Date: | Comments | Init. | | No Revisions: | | Designer: RML | Structure Numbers | Sheet Number 48 |
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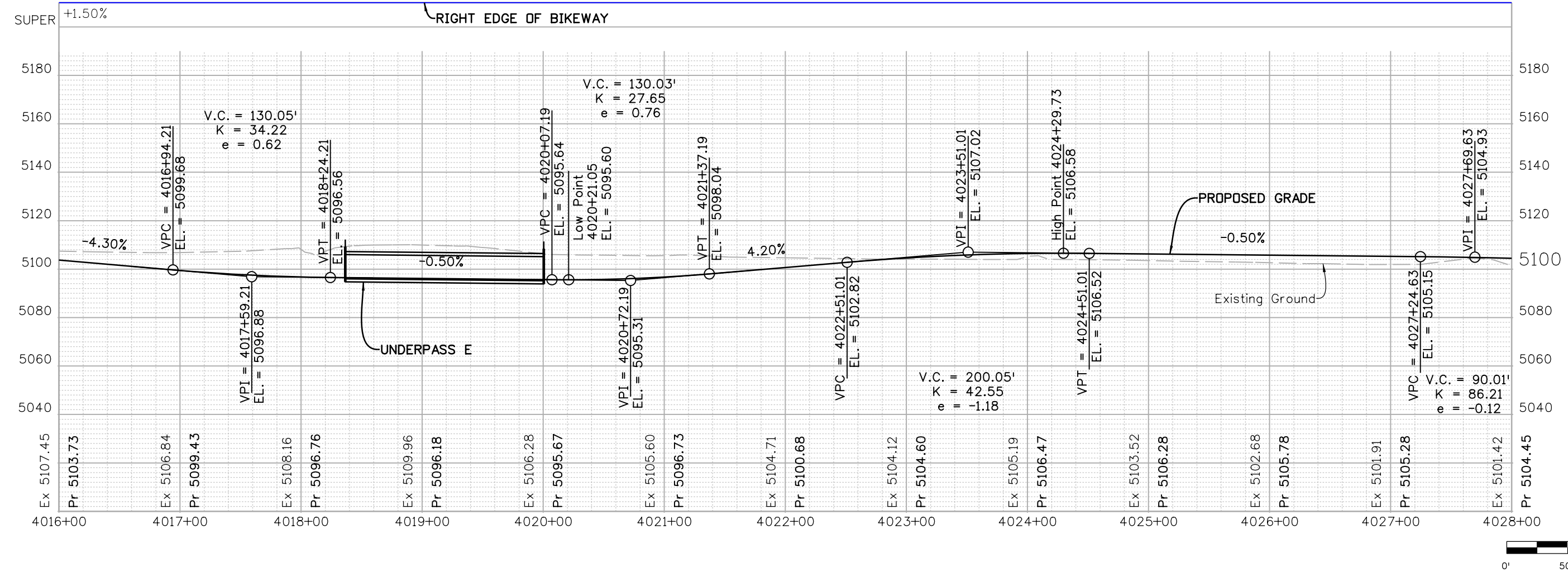
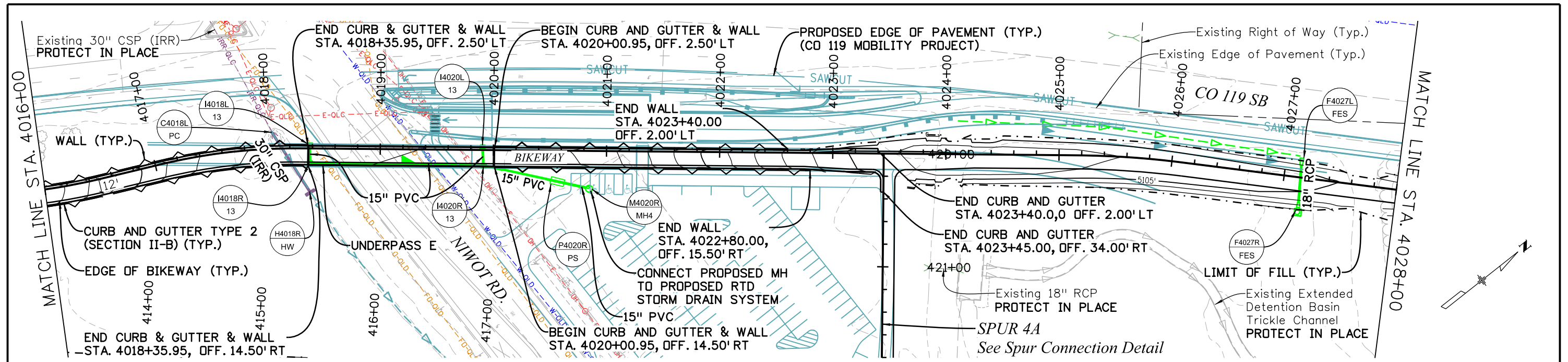
| All seals for this set of drawings are applied to the cover page(s) | Print Date: 6/29/2022 File Name: 320_21015_RD_Bkwy Pln 25.dgn Horiz. Scale: 1"=100' Vert. Scale: As Noted Unit Information | Sheet Revisions <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">Date:</th> <th style="width: 60%;">Comments</th> <th style="width: 30%;">Init.</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table> | Date: | Comments | Init. | | | | | | | | | | | As Constructed No Revisions: Revised: Void: | CD 119 BIKEWAY BIKEWAY PLAN & PROFILE | Project No./Code <hr/> Designer: RML Detailer: PDP Sheet Subset: P&P Structure Numbers Subset Sheets: 25 of 44 Sheet Number 49 |
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| | | | | CD 119 BIKEWAY BIKEWAY PLAN & PROFILE | | Sheet Number 49 | | | | | | | | | | | | |
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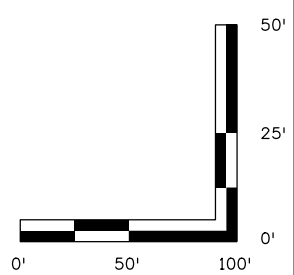
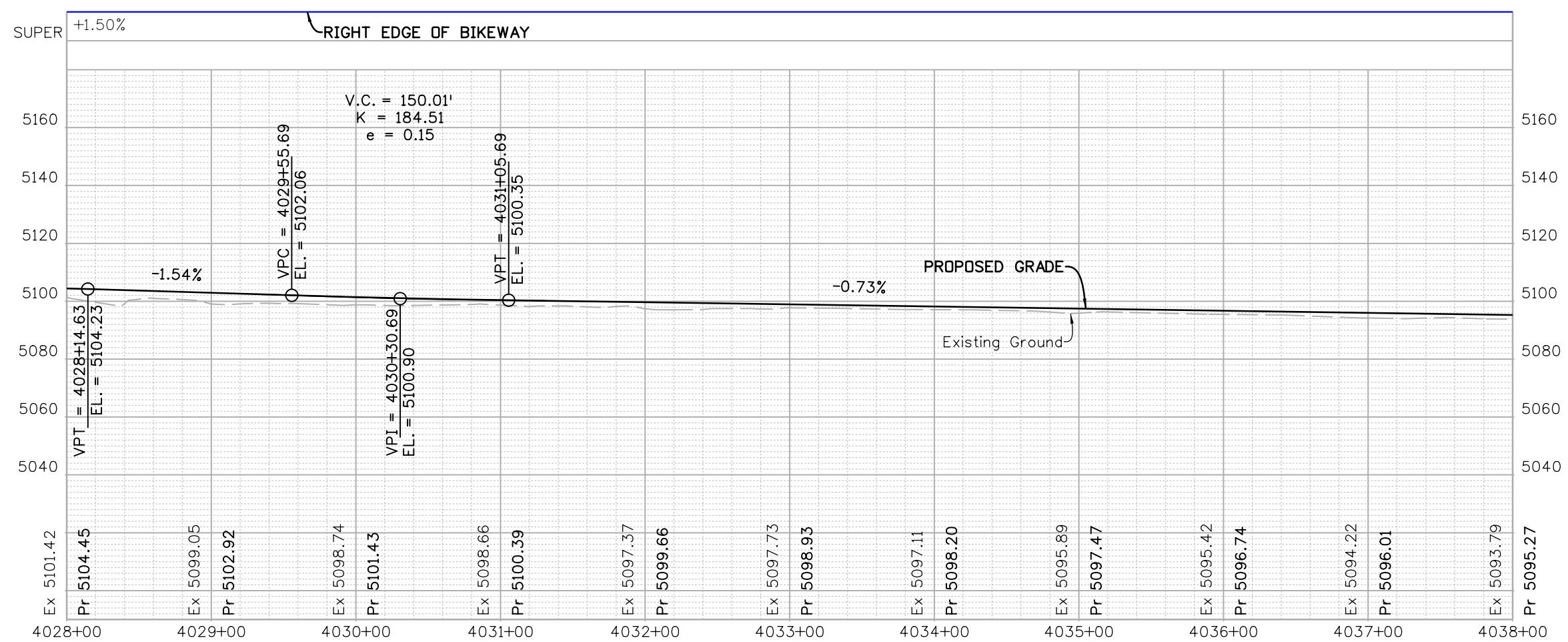
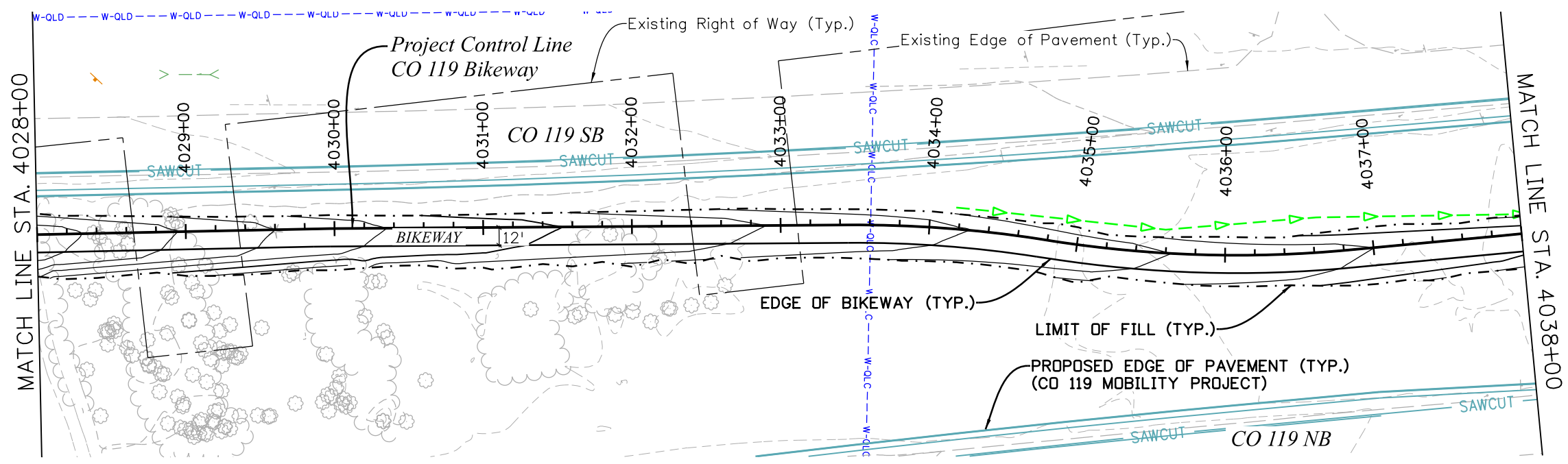
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| | Horiz. Scale: Vert. Scale: As Noted | | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Date:</th> <th>Comments</th> <th>Init.</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table> | Date: | Comments | | Init. | | | | | | | | | | No Revisions: | Designer: RML | Structure Numbers | Sheet Number 50 |
| | Date: | | Comments | Init. | | | | | | | | | | | | | | | | |
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| Unit Information | Revised: | Detailer: PDP | Sheet Subset: P&P | Subset Sheets: 26 of 44 | | | | | | | | | | | | | | | | |
| | Void: | Sheet Subset: P&P | Subset Sheets: 26 of 44 | Sheet Number 50 | | | | | | | | | | | | | | | | |

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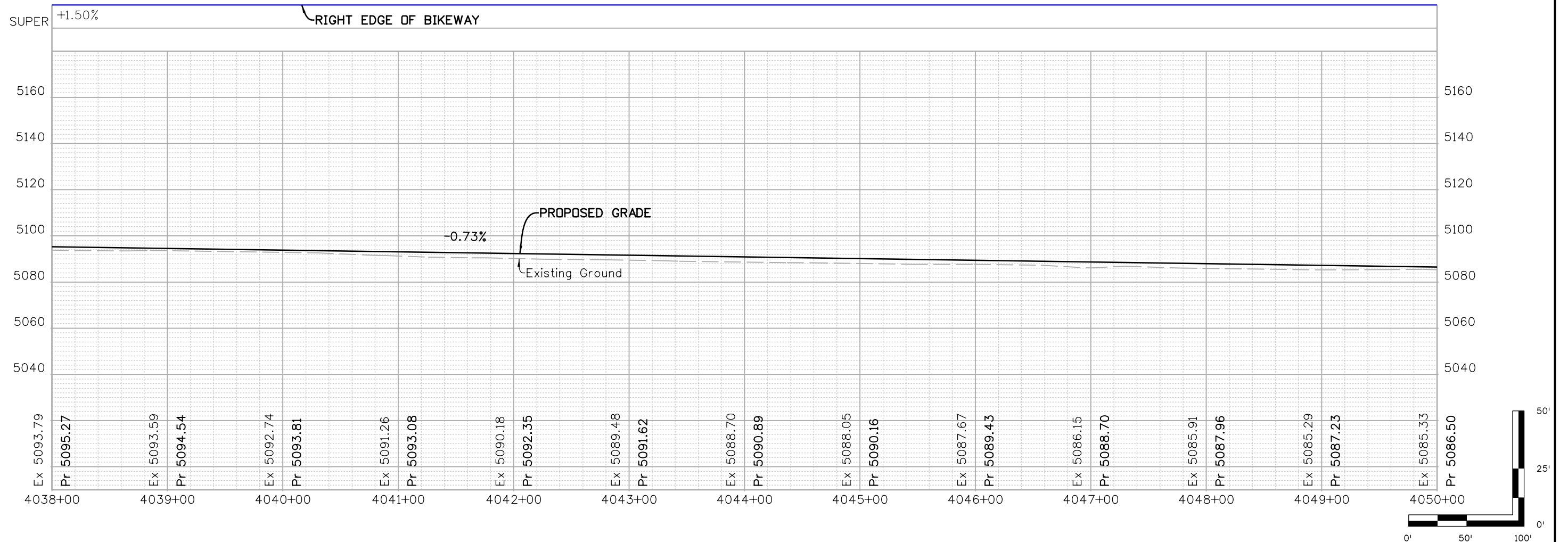
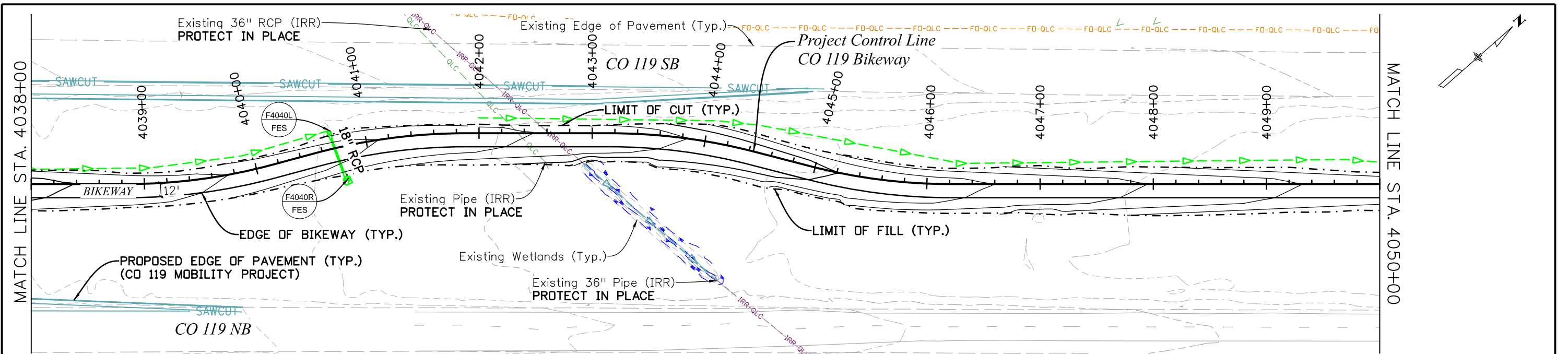
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| Designer: | RML | Structure Numbers | | | | | | | | | | | | | | | | |
| Detailer: | PDP | | | | | | | | | | | | | | | | | |
| Sheet Subset: | P&P | Subset Sheets: | 27 of 44 | | | | | | | | | | | | | | | |

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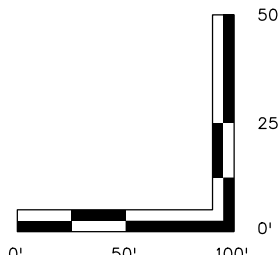
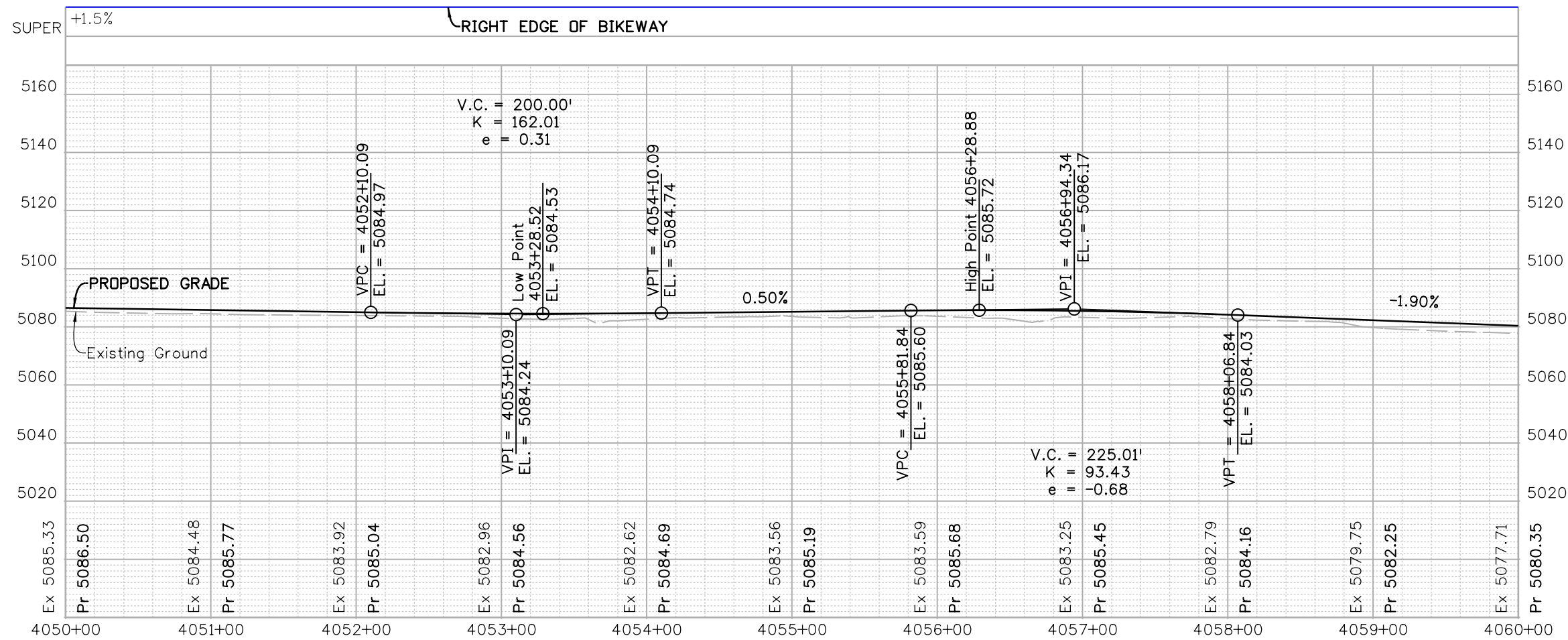
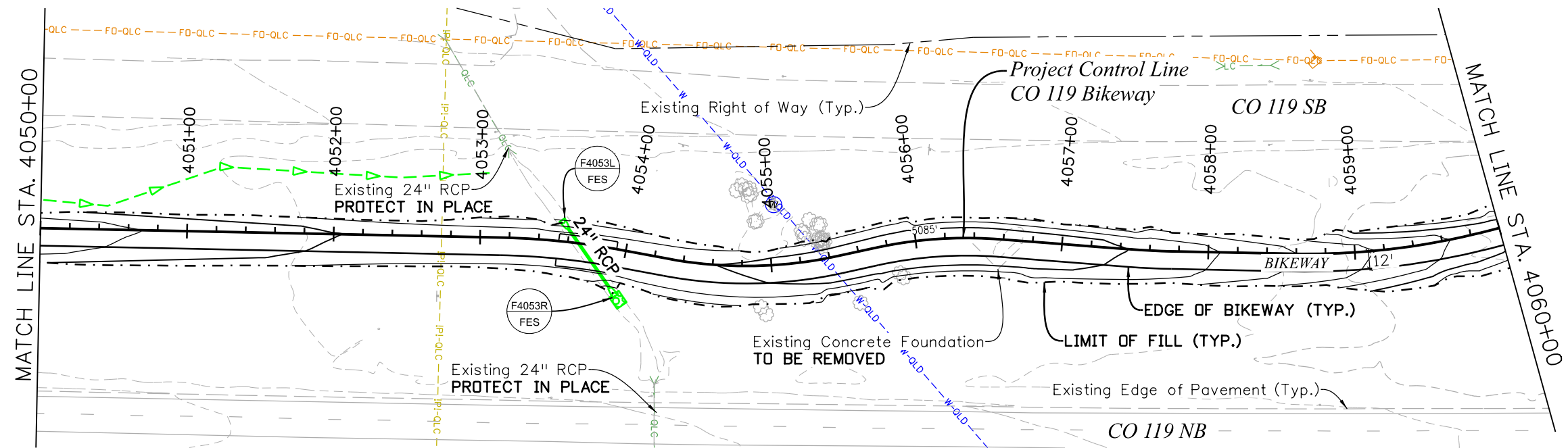
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|---|--|--|-------|----------|-------|--|--|--|--|--|--|--|--|--|--|--|---|--|
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| | Designer: RML Detailer: PDP Sheet Subset: P&P | Structure Numbers Subset Sheets: 28 of 44 | | | | | | | | | | | | | | | | |

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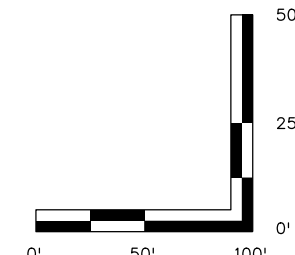
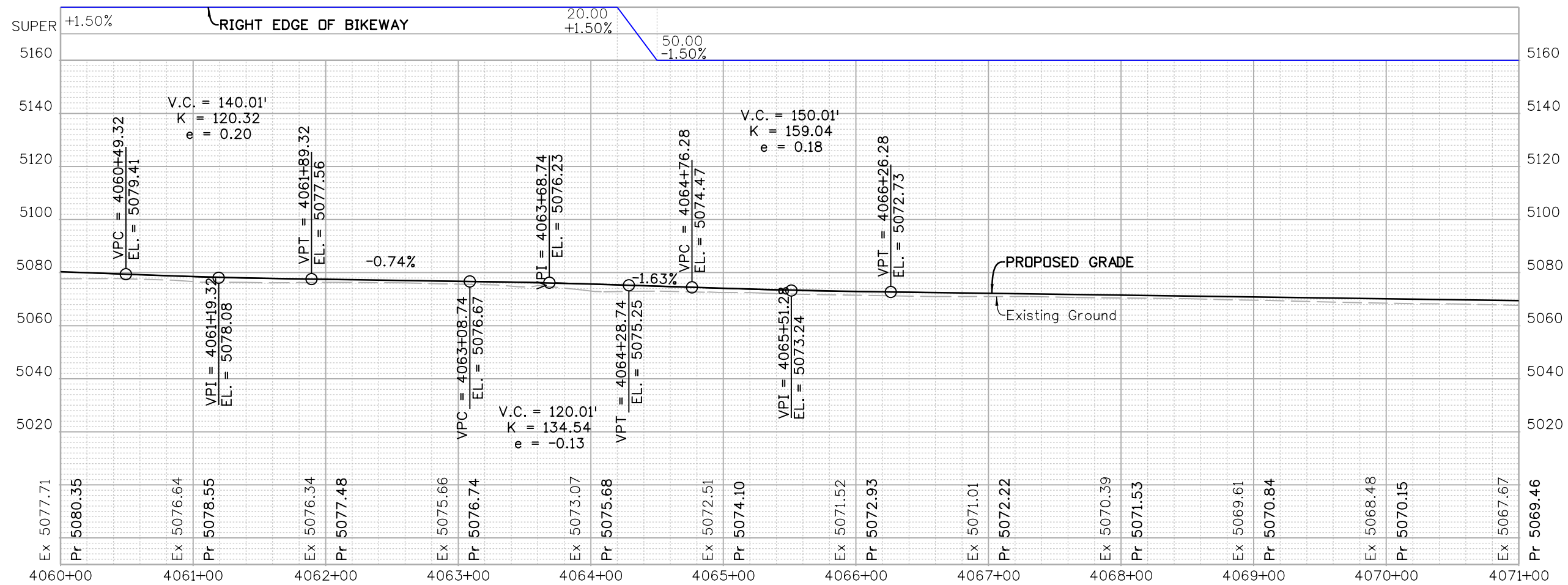
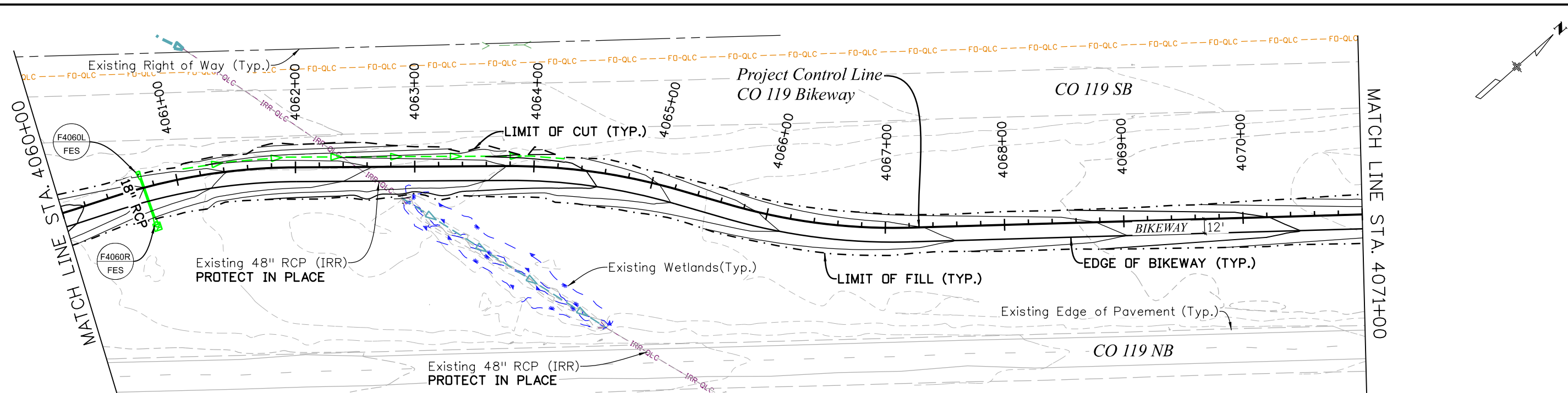
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| All seals for this set of drawings are applied to the cover page(s) | Print Date: 6/28/2022 | Sheet Revisions | | | | As Constructed | | CD 119 BIKEWAY | | Project No./Code |
| | File Name: 320_21015_RD_Bkwy Pln 29.dgn | Date: | Comments | Init. | | No Revisions: | BIKEWAY PLAN & PROFILE | | | |
| | Unit Information | | | | | Revised: | Designer: RML | Structure Numbers | | |
| | | | | | Void: | Detailer: PDP | Subset Sheets: 29 of 44 | Sheet Number 53 | | |

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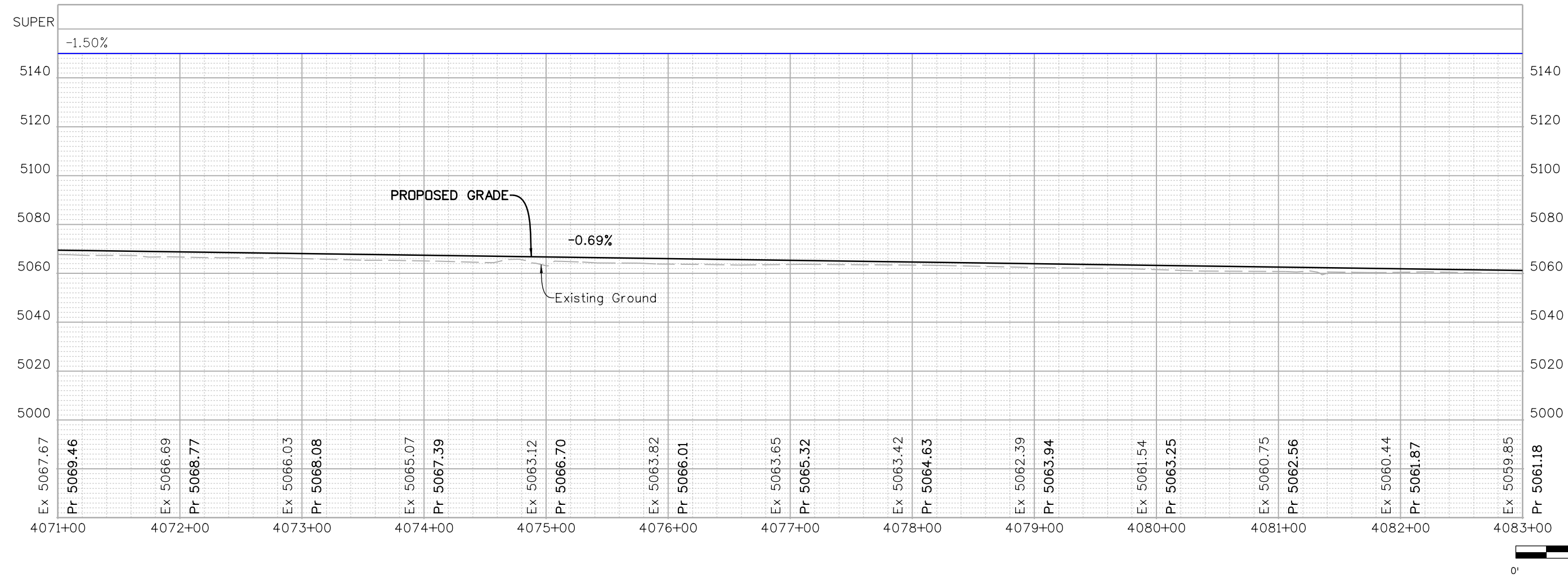
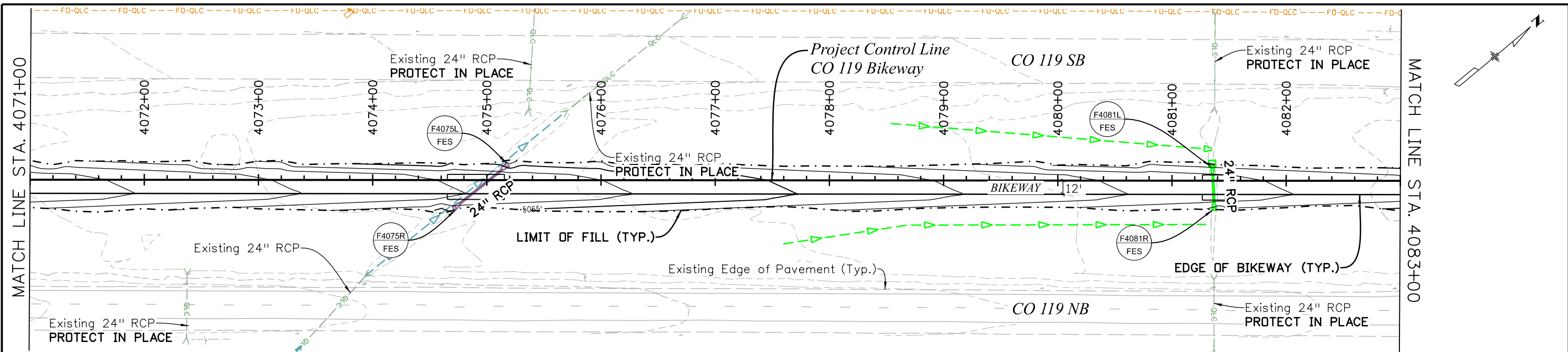
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| Horiz. Scale: Vert. Scale: As Noted Unit Information | Designer: RML Detailer: PDP | Structure Numbers | Sheet Number 54 | | | | | | | | | | | | | | | | |
| | Sheet Subset: P&P | Subset Sheets: 30 of 44 | Sheet Number 54 | | | | | | | | | | | | | | | | |

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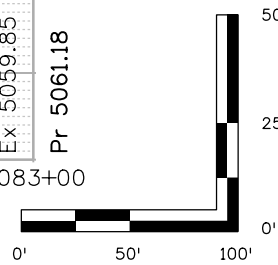


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| All seals for this set of drawings are applied to the cover page(s) | Print Date: 6/28/2022 | Sheet Revisions | | | | As Constructed | | CO 119 BIKEWAY | | Project No./Code |
| | File Name: 320_21015_RD_Bkwy Pln 31.dgn | Date: | Comments | Init. | | BIKEWAY PLAN & PROFILE | | Designer: RML | | |
| | Unit Information | | | | | Revised: | | Detailer: PDP | | |
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| | | | | | Structure Numbers | | Subset Sheets: 31 of 44 | | Sheet Number 55 | |

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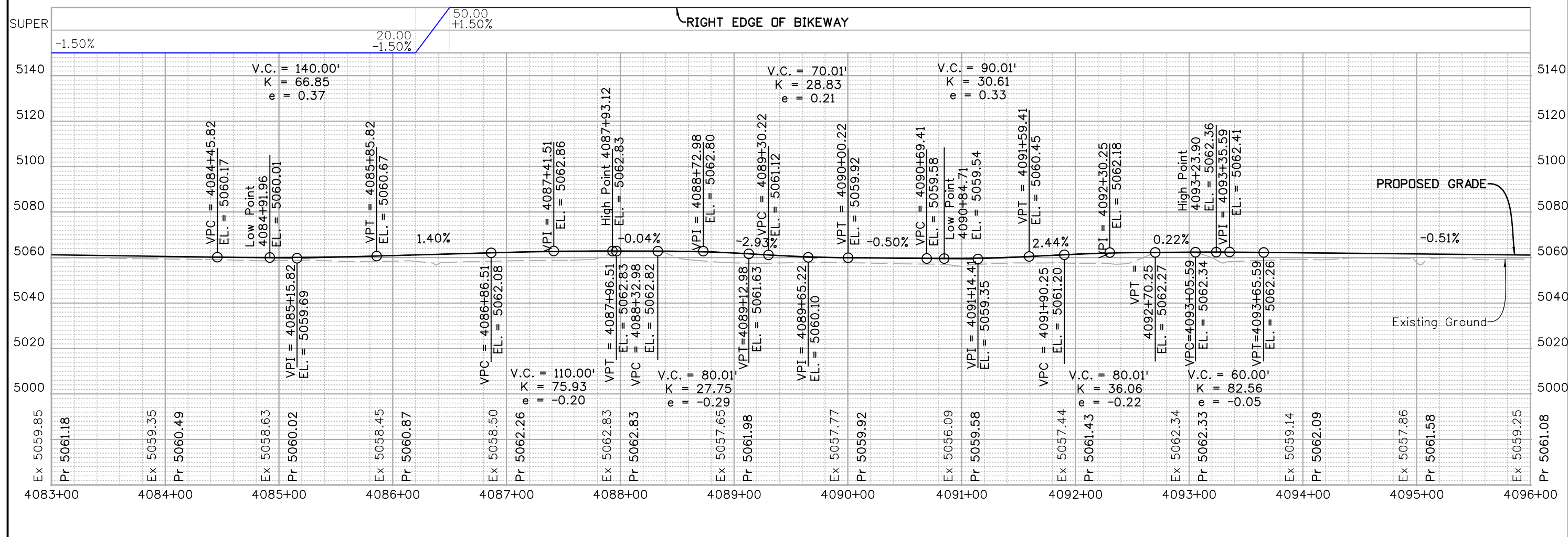
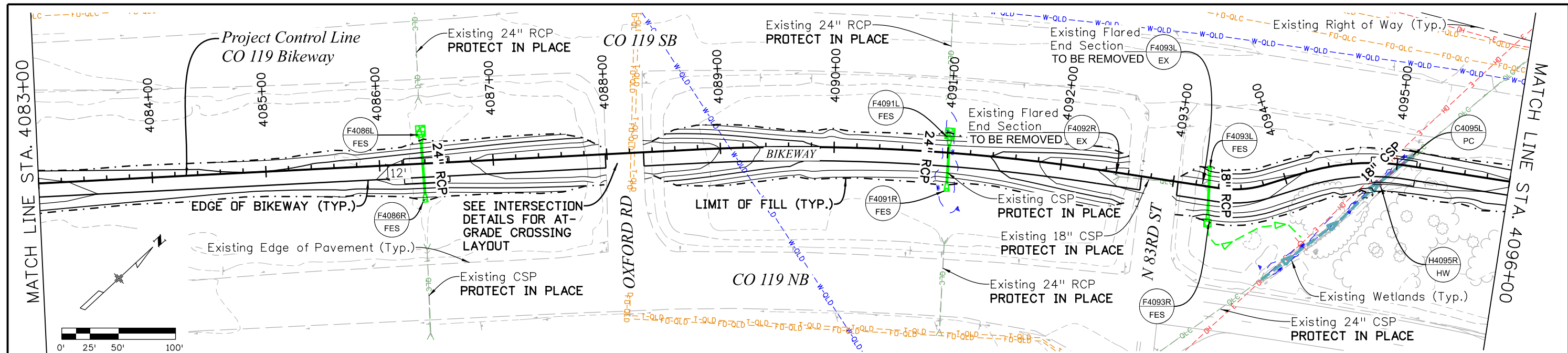


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| Ex 5067.67 | Pr 5069.46 | Ex 5066.69 | Pr 5068.77 | Ex 5066.03 | Pr 5068.08 | Ex 5065.07 | Pr 5067.39 | Ex 5063.12 | Pr 5066.70 | Ex 5063.82 | Pr 5066.01 | Ex 5063.65 | Pr 5065.32 | Ex 5063.42 | Pr 5064.63 | Ex 5062.39 | Pr 5063.94 | Ex 5061.54 | Pr 5063.25 | Ex 5060.75 | Pr 5062.56 | Ex 5060.44 | Pr 5061.87 | Ex 5059.85 | Pr 5061.18 |
| 4071+00 | 4072+00 | 4073+00 | 4074+00 | 4075+00 | 4076+00 | 4077+00 | 4078+00 | 4079+00 | 4080+00 | 4081+00 | 4082+00 | 4083+00 | | | | | | | | | | | | | |



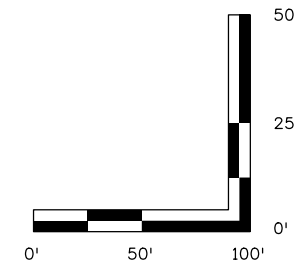
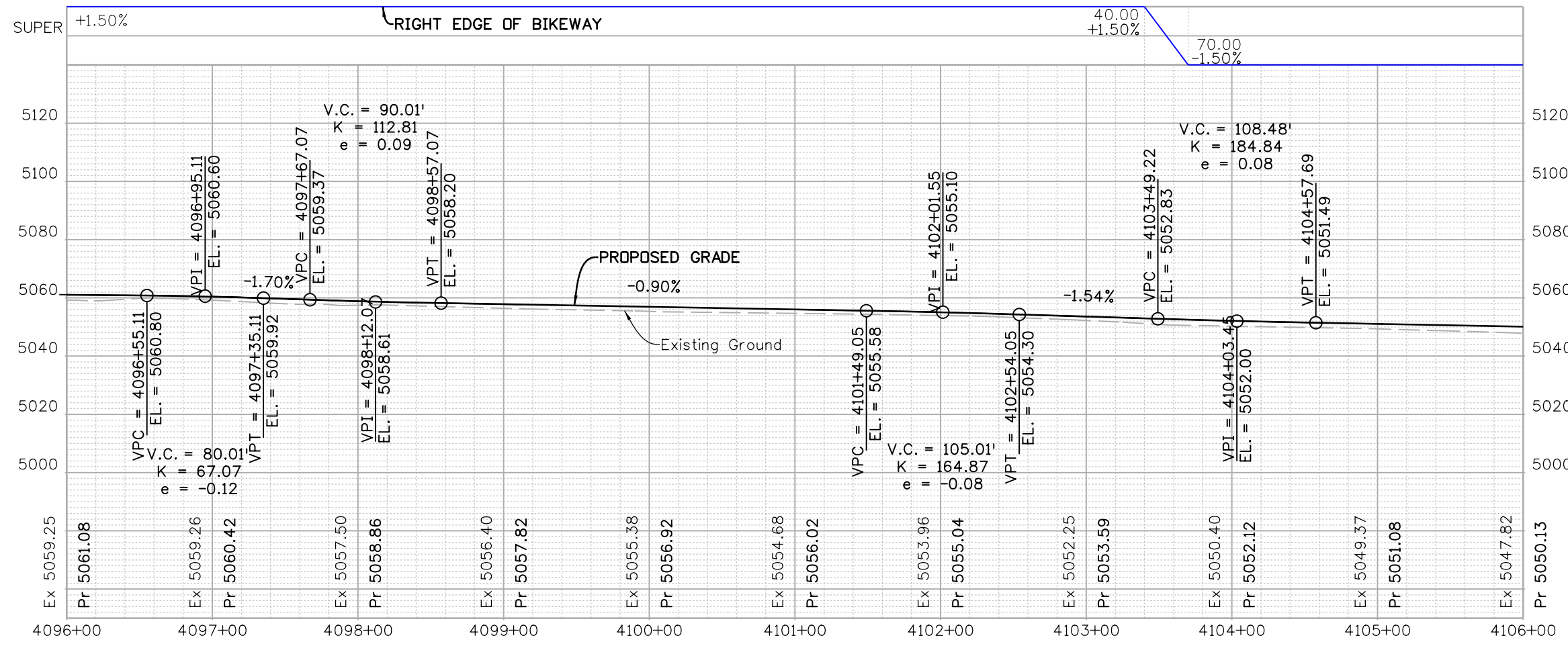
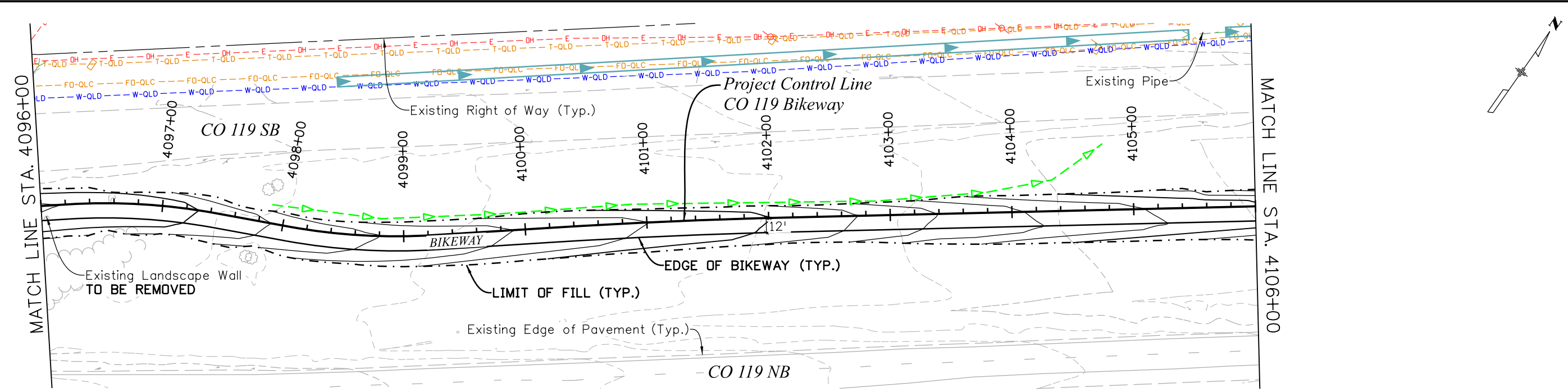
| All seals for this set of drawings are applied to the cover page(s) | Print Date: 6/28/2022 File Name: 320_21015_RD_Bkwy Pln 32.dgn | Sheet Revisions | | | | As Constructed | | CD 119 BIKEWAY BIKEWAY PLAN & PROFILE | | | Project No./Code | | | | | | | | | |
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| | Horiz. Scale: Vert. Scale: As Noted | <table border="1" style="width: 100%;"> <thead> <tr> <th>Date:</th> <th>Comments</th> <th>Init.</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table> | Date: | Comments | | Init. | | | | | | | | | | No Revisions: | Designer: RML | Structure Numbers | Sheet Number 56 | |
| | Date: | Comments | Init. | | | | | | | | | | | | | | | | | |
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| Unit Information | Revised: | Detailer: PDP | Subset Sheets: 32 of 44 | | | | | | | | | | | | | | | | | |
| | | Void: | Sheet Subset: P&P | | | | | | | | | | | | | | | | | |

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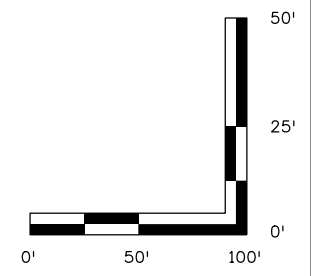
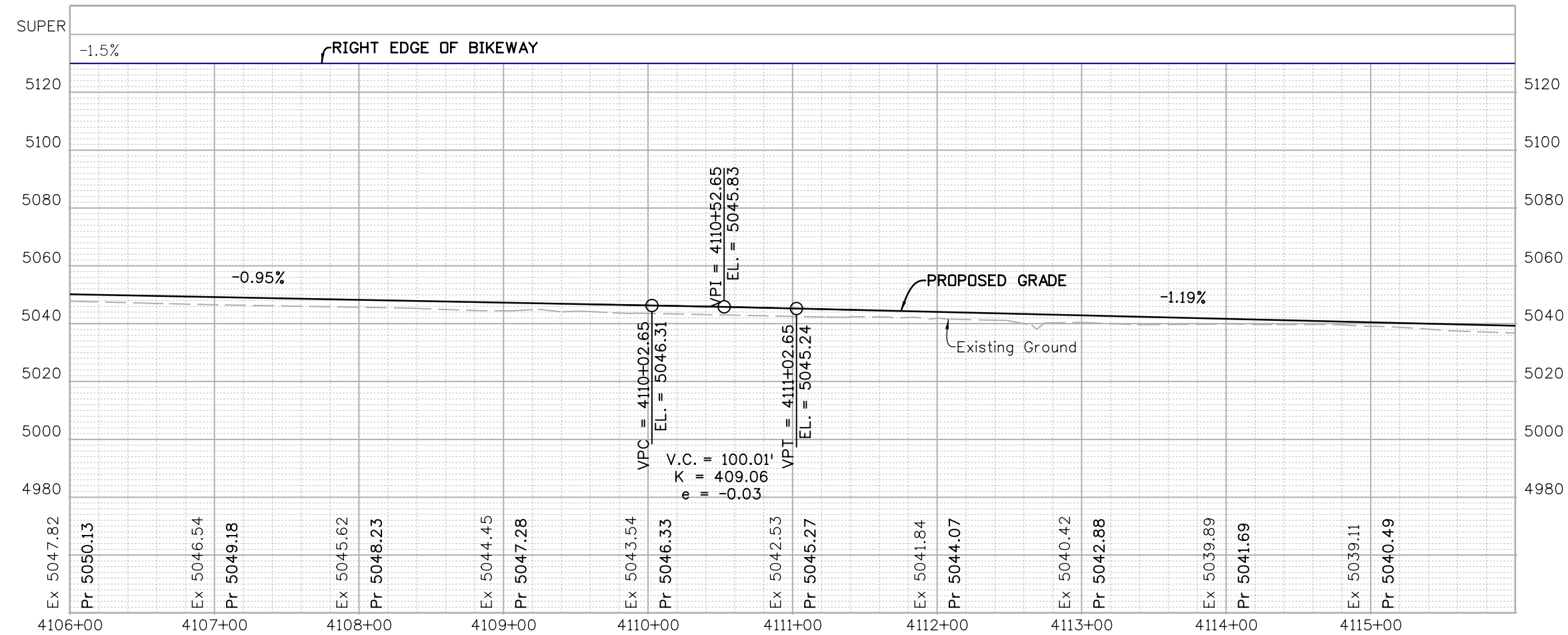
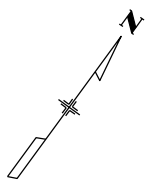
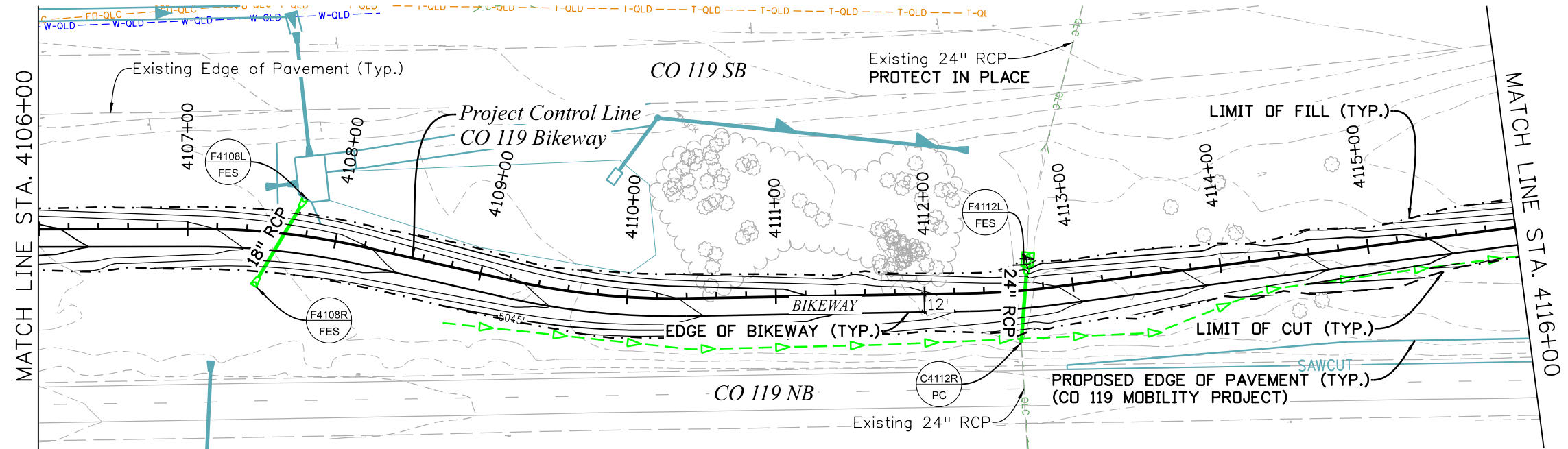
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| | Horiz. Scale: Vert. Scale: As Noted | | | | | Revised: | Designer: RML | Structure Numbers | | |
| | Unit Information | | | | | Void: | Detailer: PDP | Subset Sheets: 33 of 44 | Sheet Number 57 | |
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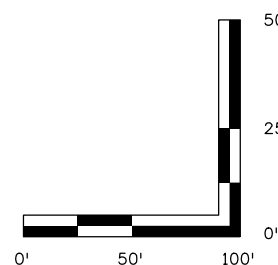
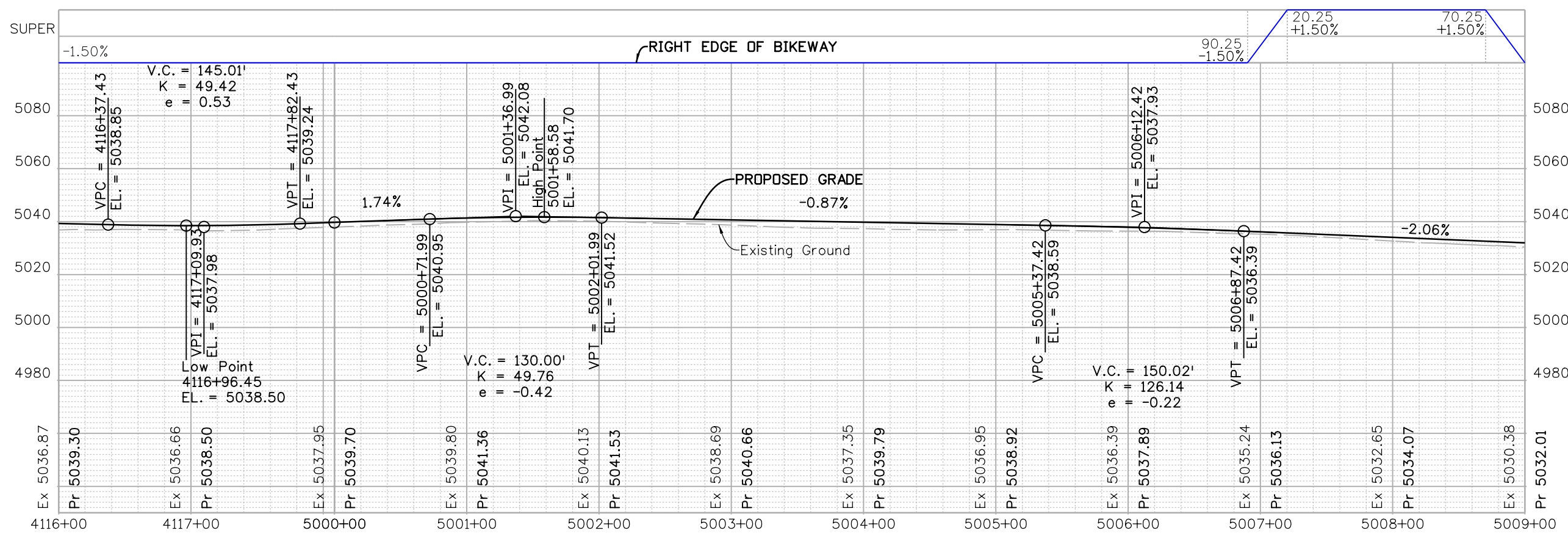
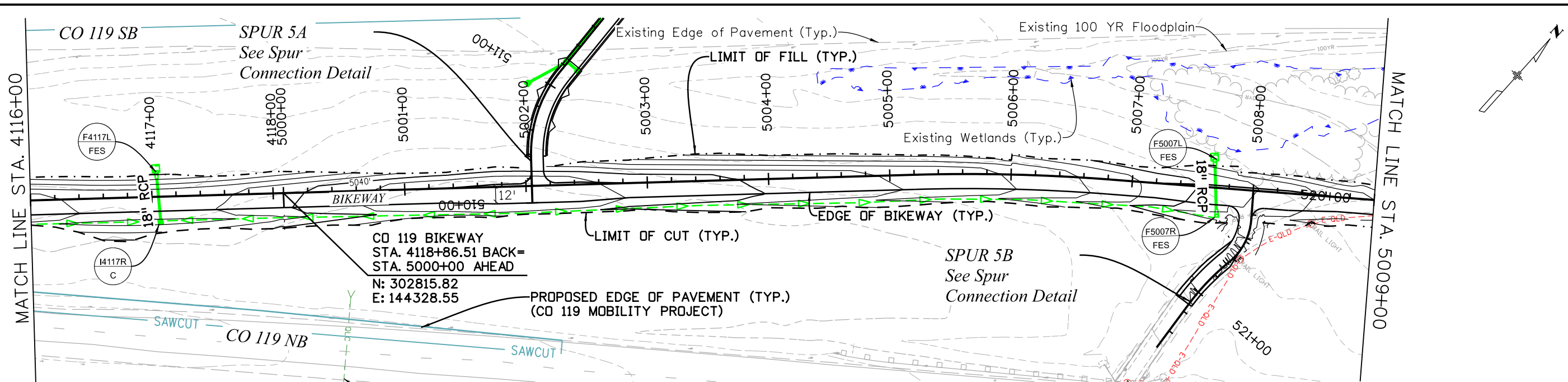
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| | Horiz. Scale: Vert. Scale: As Noted | Date: | Comments | Init. | | No Revisions: | | Designer: RML | Structure Numbers | Sheet Number 58 |
| | Unit Information | Revised: | Void: | Sheet Subset: P&P | | Subset Sheets: 34 of 44 | | | | |

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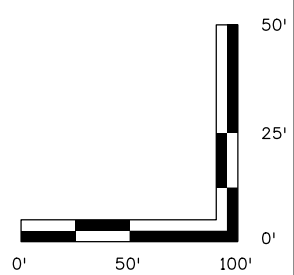
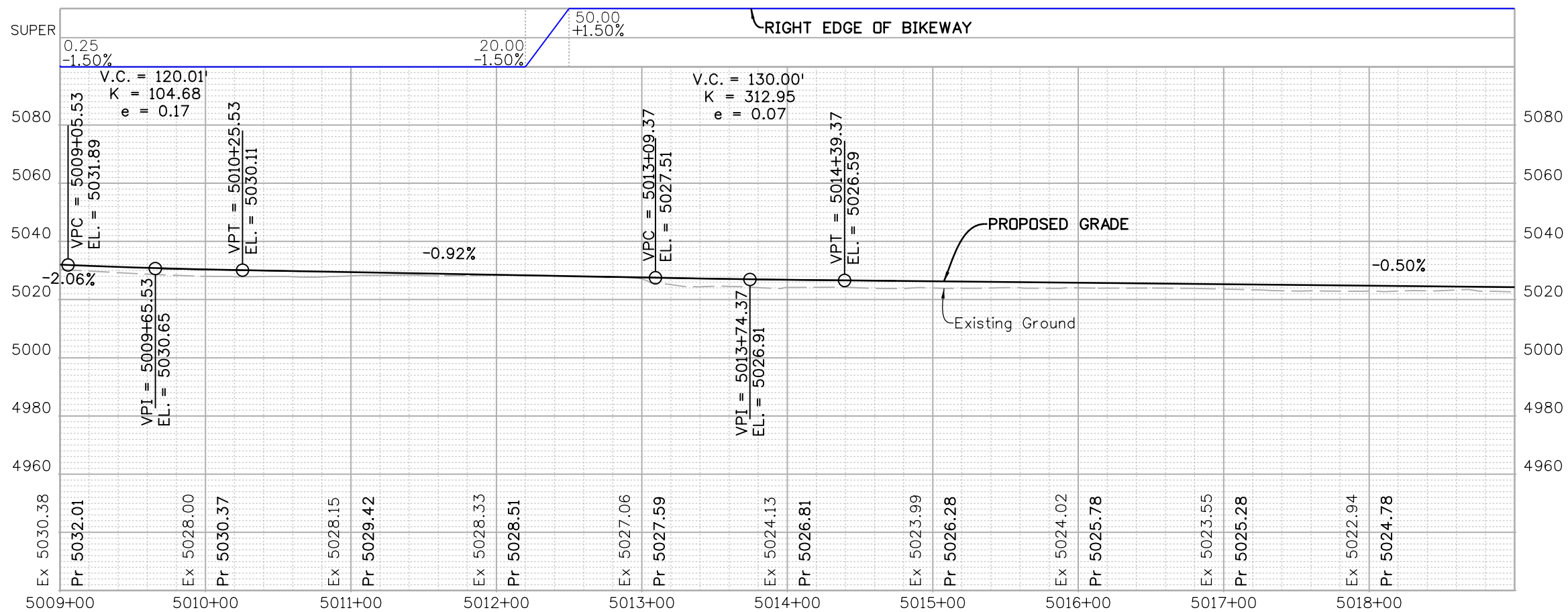
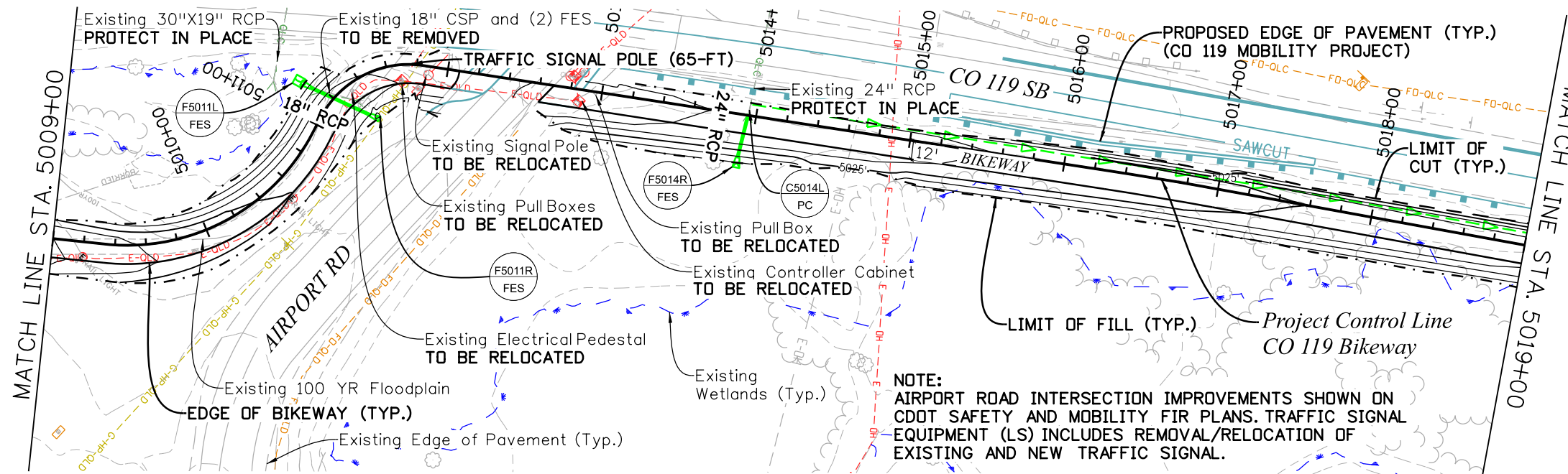


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| All seals for this set of drawings are applied to the cover page(s) | Print Date: 6/28/2022 | Sheet Revisions | | | | As Constructed | | CD 119 BIKEWAY | | Project No./Code |
| | File Name: 320_21015_RD_Bkwy Pln 35.dgn | Date: | Comments | Init. | | BIKEWAY PLAN & PROFILE | | | | |
| | Horiz. Scale: Vert. Scale: As Noted | | | | | Revised: | Designer: RML | Structure Numbers | | |
| | Unit Information | | | | | Void: | Detailer: PDP | Subset Sheets: 35 of 44 | Sheet Number 59 | |
| | | | | | Sheet Subset: P&P | | | | | |

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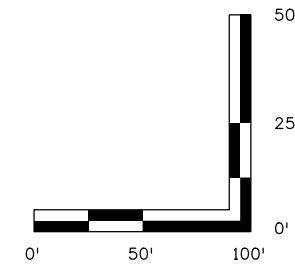
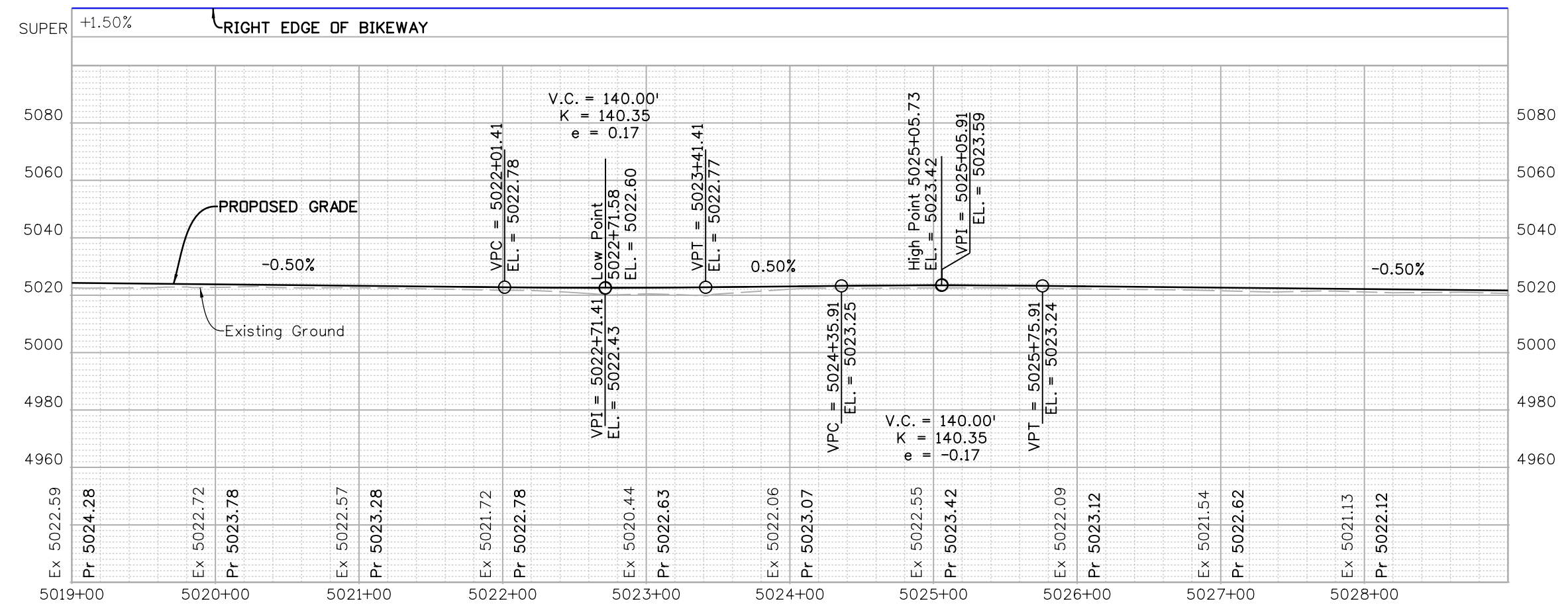
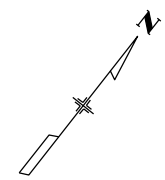
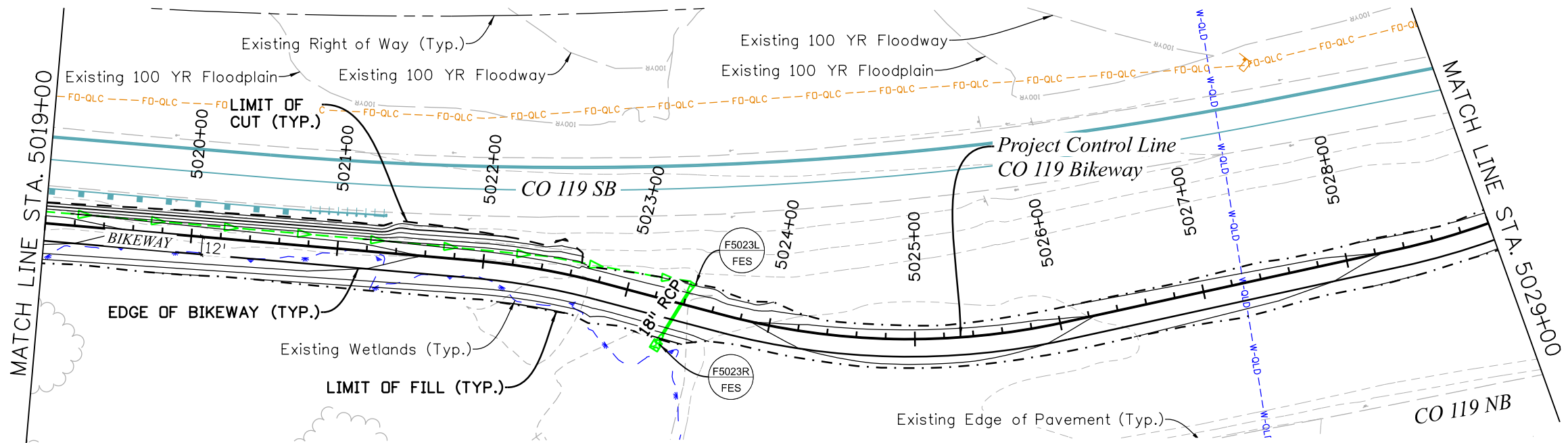
| All seals for this set of drawings are applied to the cover page(s) | Print Date: 6/29/2022 File Name: 320_21015_RD_Bkwy Pln 36.dgn Horiz. Scale: 1"=100' Vert. Scale: As Noted Unit Information | Sheet Revisions <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">Date:</th> <th style="width: 60%;">Comments</th> <th style="width: 30%;">Init.</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table> | Date: | Comments | Init. | | | | | | | | | | | As Constructed No Revisions: Revised: Void: | CD 119 BIKEWAY BIKEWAY PLAN & PROFILE | Project No./Code Sheet Number 60 |
|---|---|--|-------|----------|-------|--|--|--|--|--|--|--|--|--|--|--|---|--|
| | Date: | Comments | Init. | | | | | | | | | | | | | | | |
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| | Designer: RML Detailer: PDP Sheet Subset: P&P Subset Sheets: 36 of 44 | Structure Numbers Sheet Number 60 | | | | | | | | | | | | | | | | |



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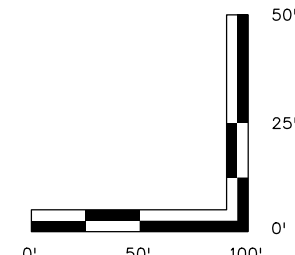
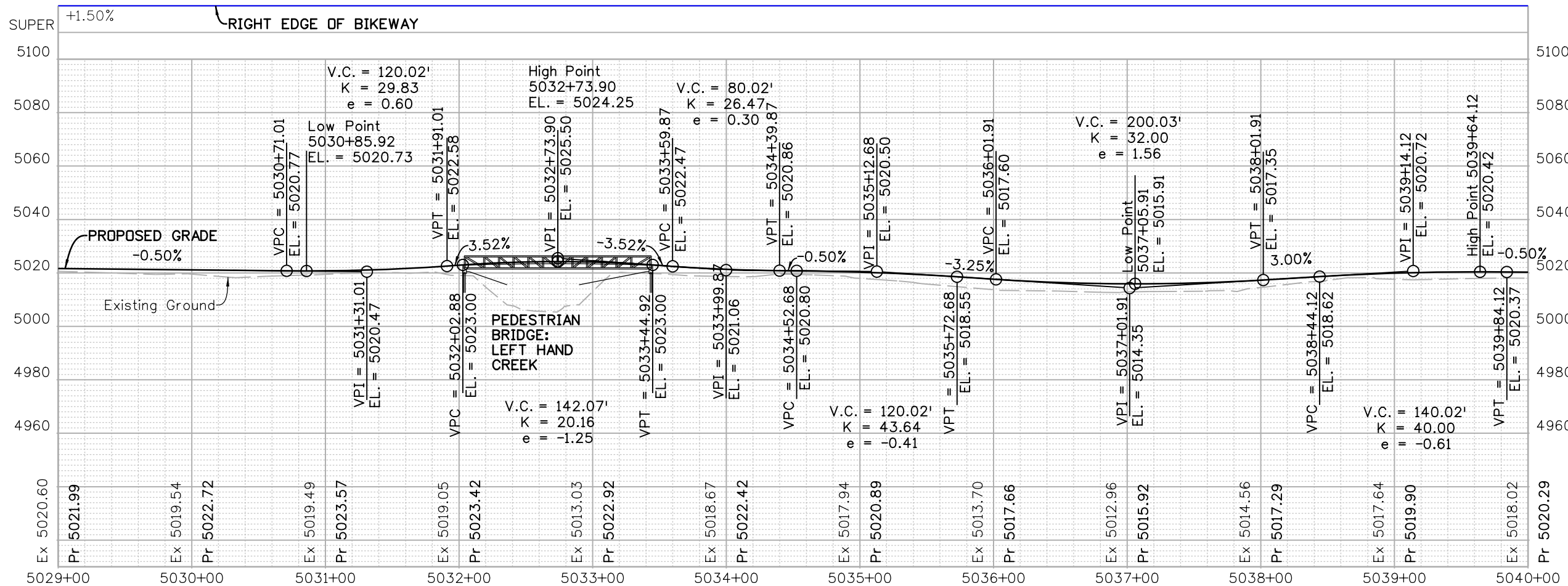
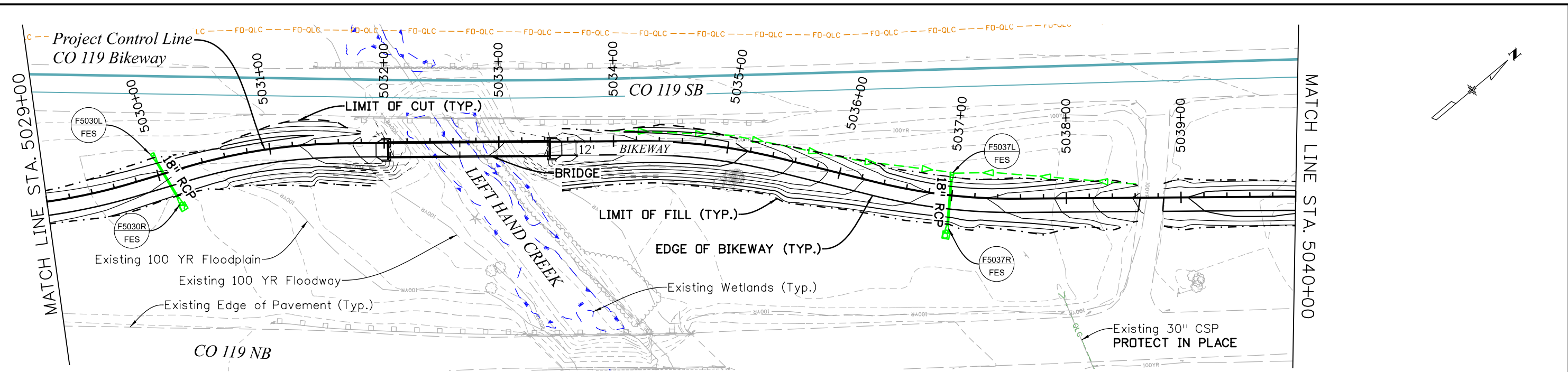
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|---|--|---|---------------------------------|---------------------------------|---------------------------------|--|--|--|--|--|--|--|--|--|--|---|--|
| | Date: | Comments | Init. | | | | | | | | | | | | | | |
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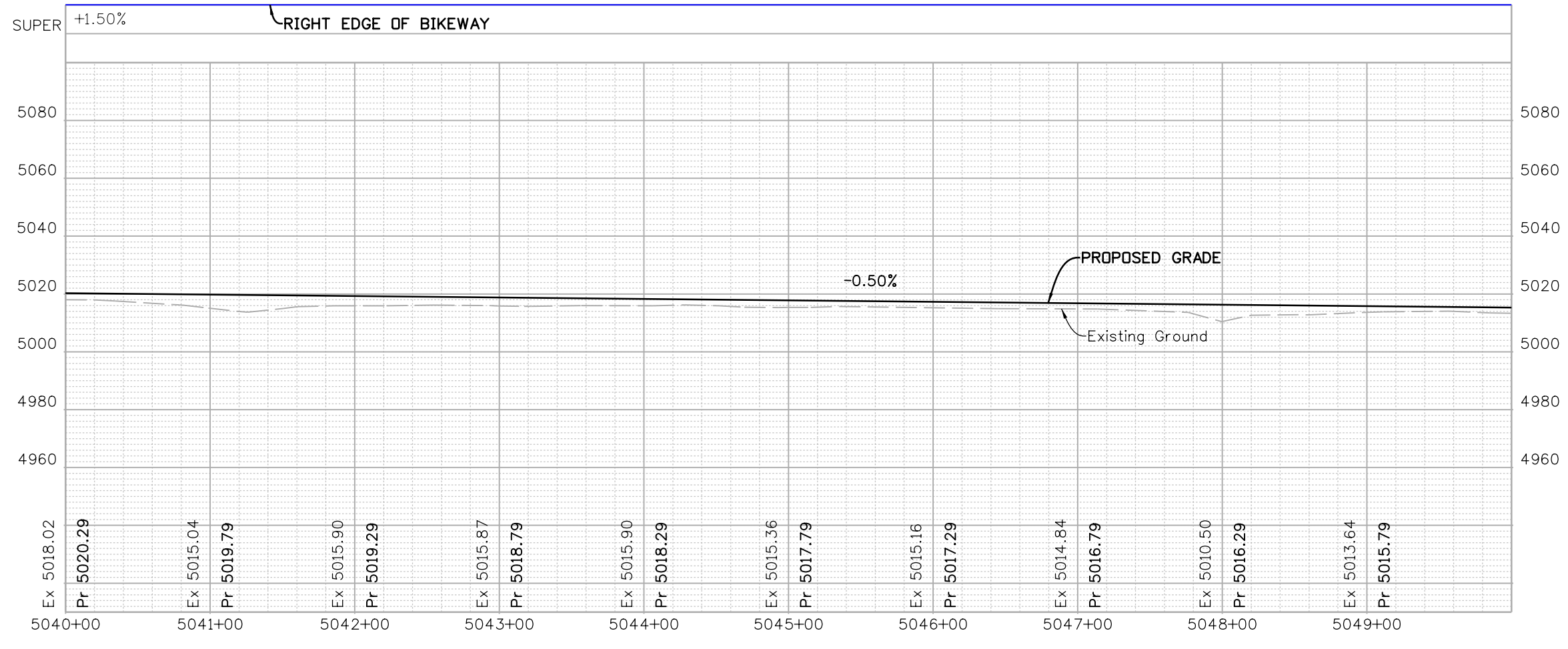
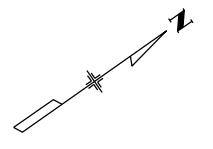
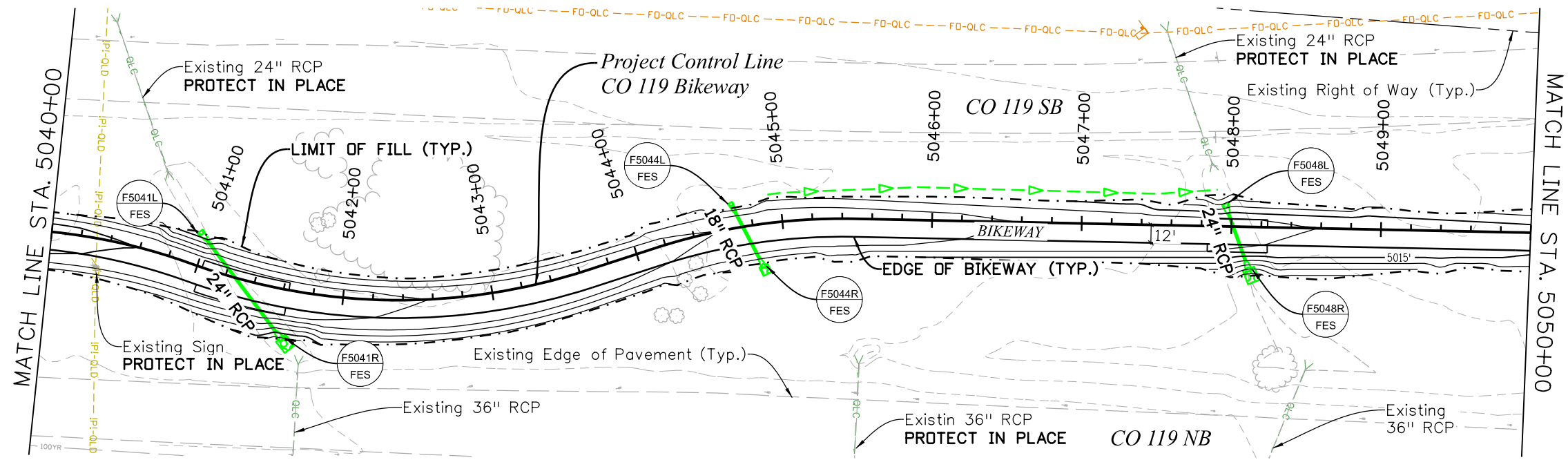
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| | Horiz. Scale: Vert. Scale: As Noted | <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Date:</th> <th>Comments</th> <th>Init.</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table> | | Date: | Comments | Init. | | | | | | | | | | Revised: | Designer: LRN Detailer: PDP | Structure Numbers | Sheet Number 62 |
| | Date: | Comments | | Init. | | | | | | | | | | | | | | | |
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| Unit Information | Void: | Sheet Subset: P&P | Subset Sheets: 38 of 44 | Sheet Number 62 | | | | | | | | | | | | | | | |

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| All seals for this set of drawings are applied to the cover page(s) | Print Date: 6/28/2022 File Name: 320_21015_RD_Bkwy Pln 39.dgn Horiz. Scale: Vert. Scale: As Noted Unit Information | Sheet Revisions <table border="1"> <thead> <tr> <th>Date:</th> <th>Comments</th> <th>Init.</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table> | Date: | Comments | Init. | | | | | | | | | | As Constructed No Revisions: Revised: Void: | CD 119 BIKEWAY BIKEWAY PLAN & PROFILE Designer: LRN Detailer: PDP Sheet Subset: P&P Structure Numbers: Subset Sheets: 39 of 44 | Project No./Code Sheet Number 63 |
|---|--|---|-------|---------------------------------|---------------------------------|--|--|--|--|--|--|--|--|--|--|---|--|
| | Date: | Comments | Init. | | | | | | | | | | | | | | |
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All seals for this set of drawings are applied to the cover page(s)

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| Print Date: 6/28/2022 |
| File Name: 320_21015_RD_Bkwy Pln 40.dgn |
| Horiz. Scale: Vert. Scale: As Noted |
| Unit Information |
| MULLER ENGINEERING COMPANY |

| Sheet Revisions | | |
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| Date: | Comments | Init. |
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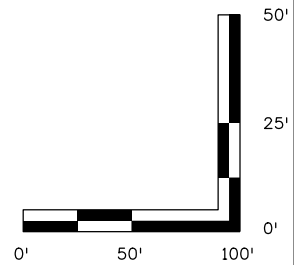
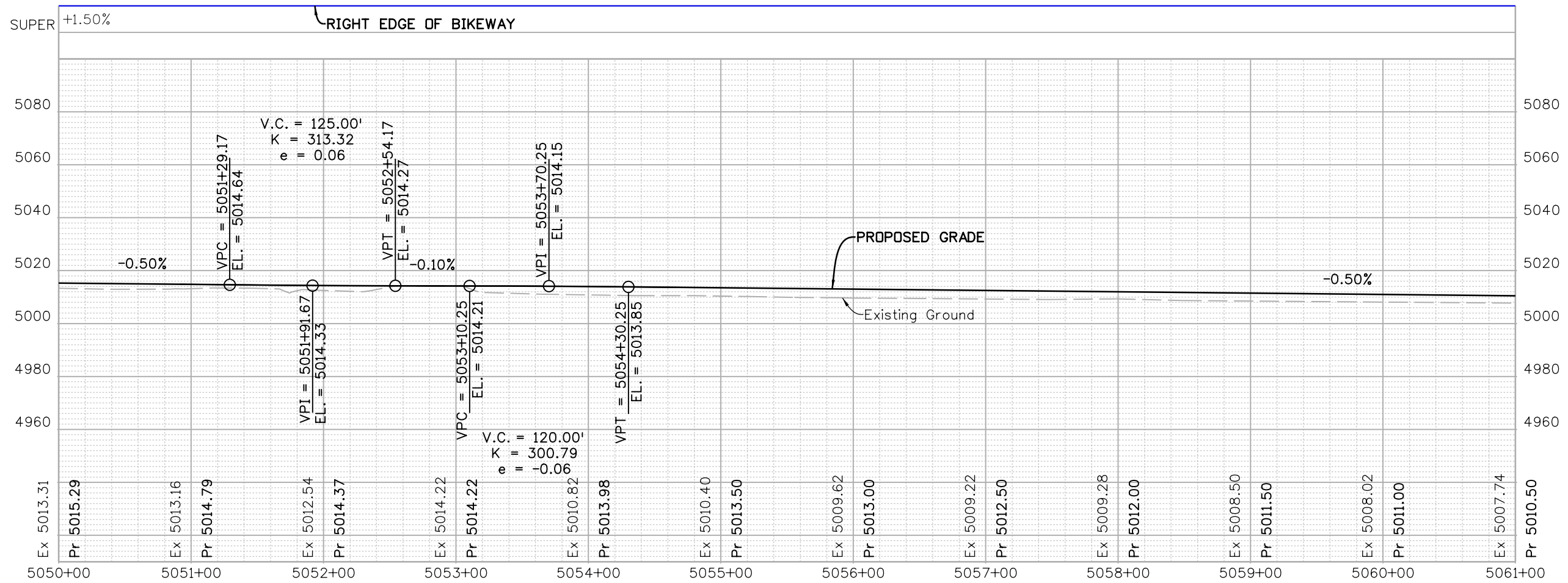
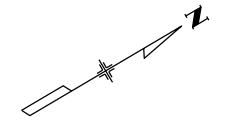
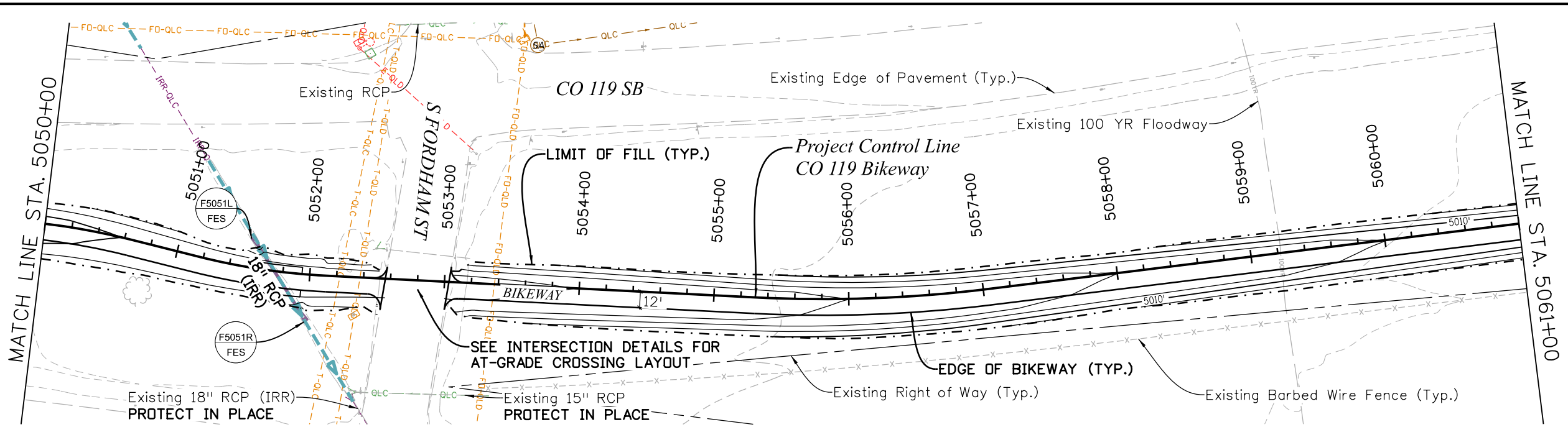


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| CD 119 BIKEWAY | | | |
| BIKEWAY PLAN & PROFILE | | | |
| Designer: | LRN | Structure | |
| Detailer: | PDP | Numbers | |
| Sheet Subset: | P&P | Subset Sheets: | 40 of 44 |

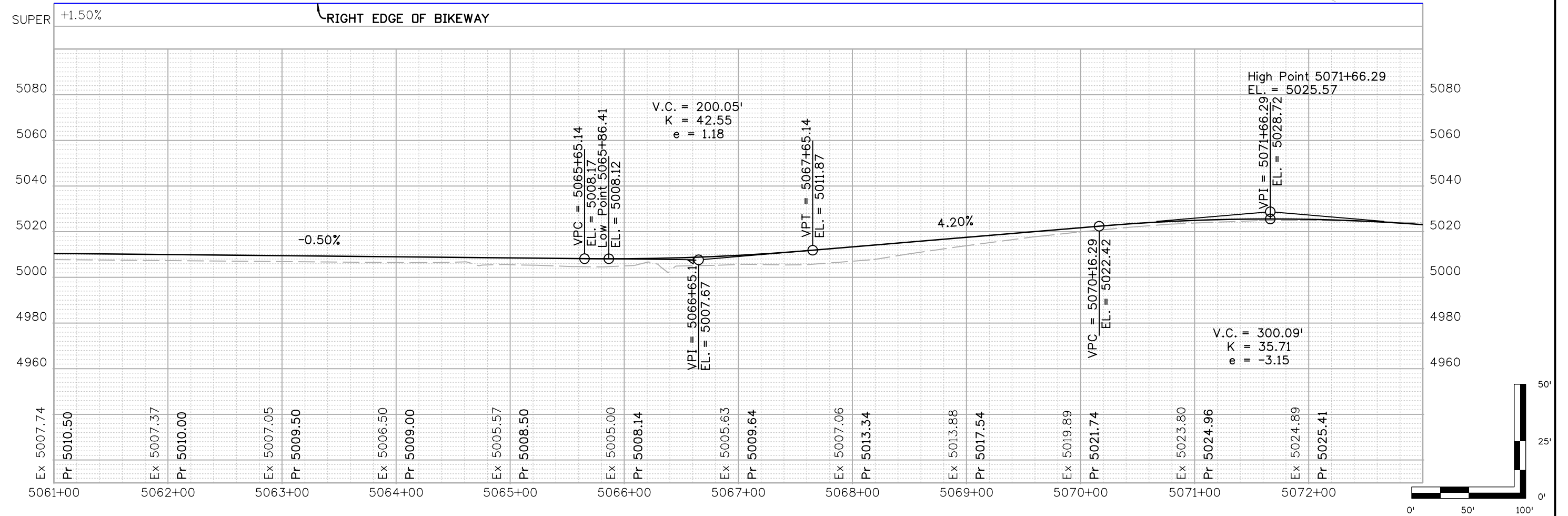
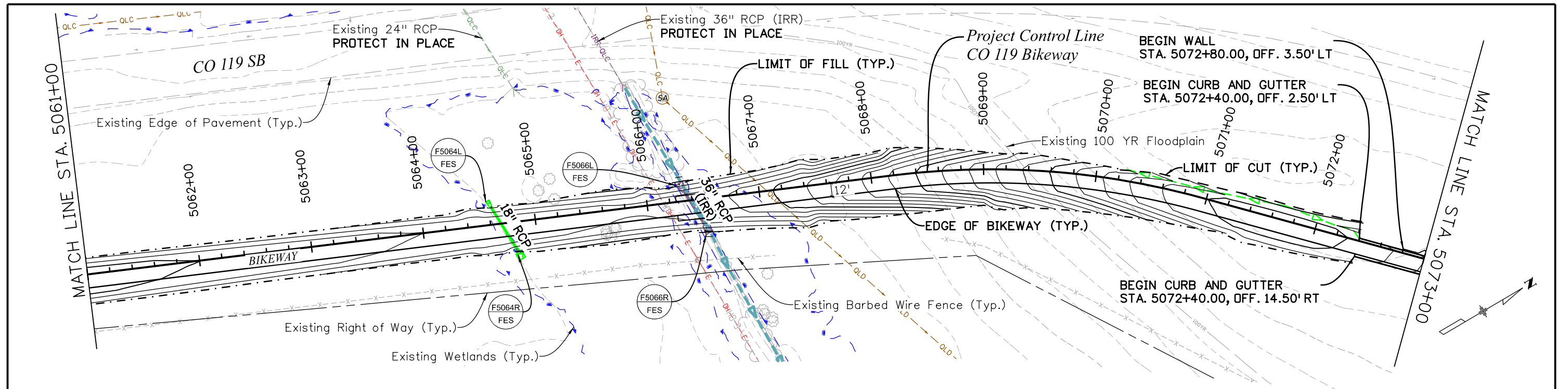
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| Project No./Code |
| Sheet Number 64 |

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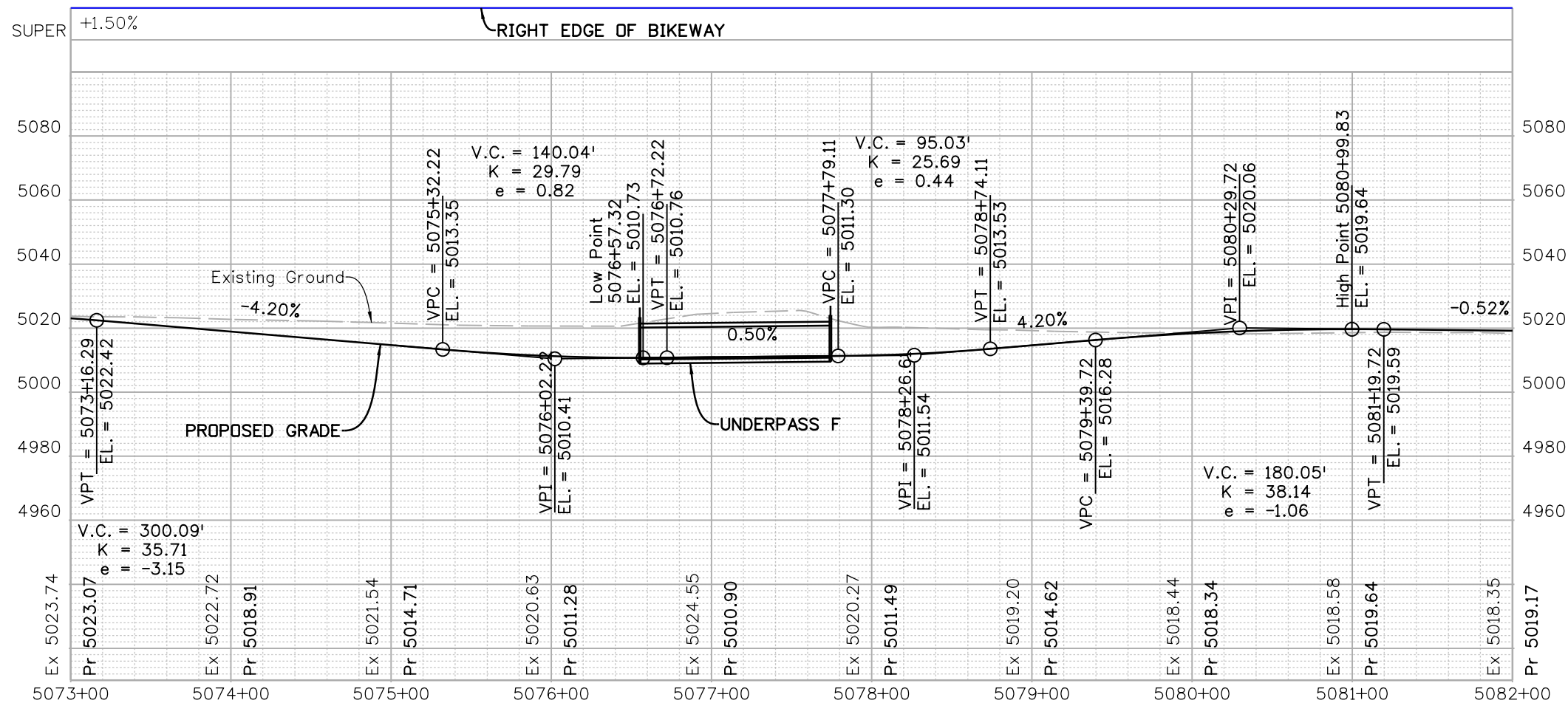
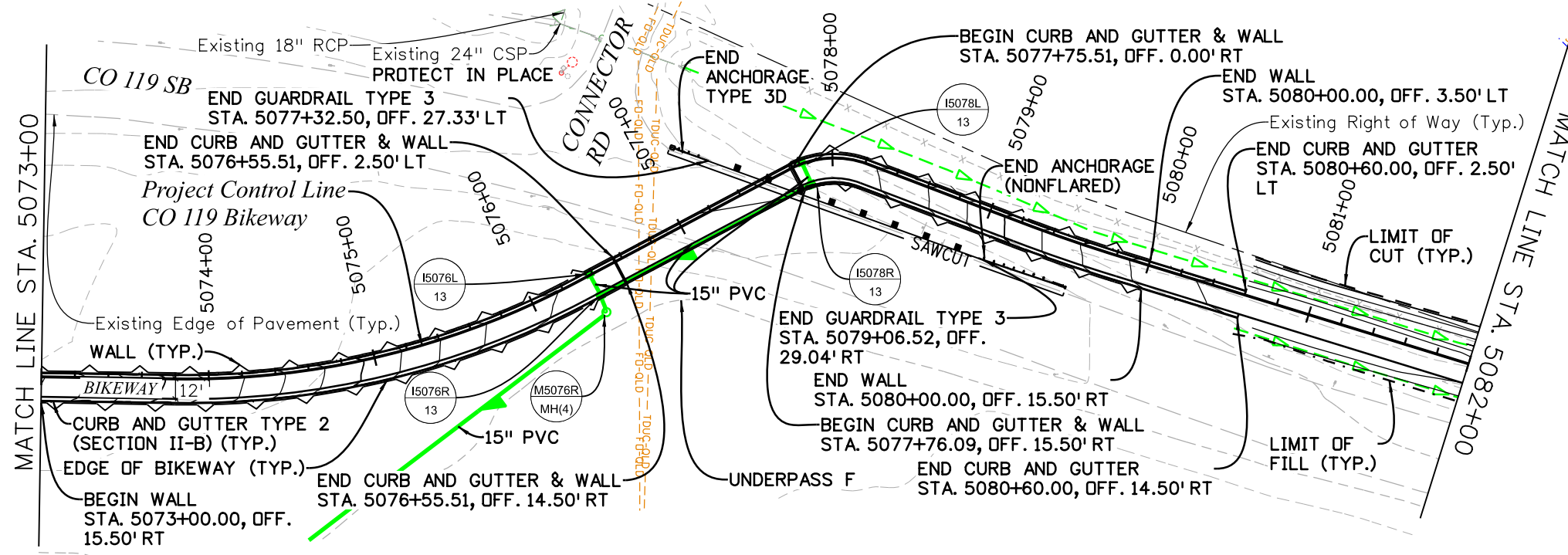
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| | Horiz. Scale: Vert. Scale: As Noted | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Date:</th> <th>Comments</th> <th>Init.</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table> | | Date: | Comments | Init. | | | | | | | | | | Revised: Void: | Designer: LRN Detailer: PDP Sheet Subset: P&P | Structure Numbers Subset Sheets: 41 of 44 | Sheet Number 65 |
| | Date: | Comments | | Init. | | | | | | | | | | | | | | | |
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| | Unit Information | 0000 | Void: | Sheet Subset: P&P | Subset Sheets: 41 of 44 | Sheet Number 65 | | | | | | | | | | | | | |

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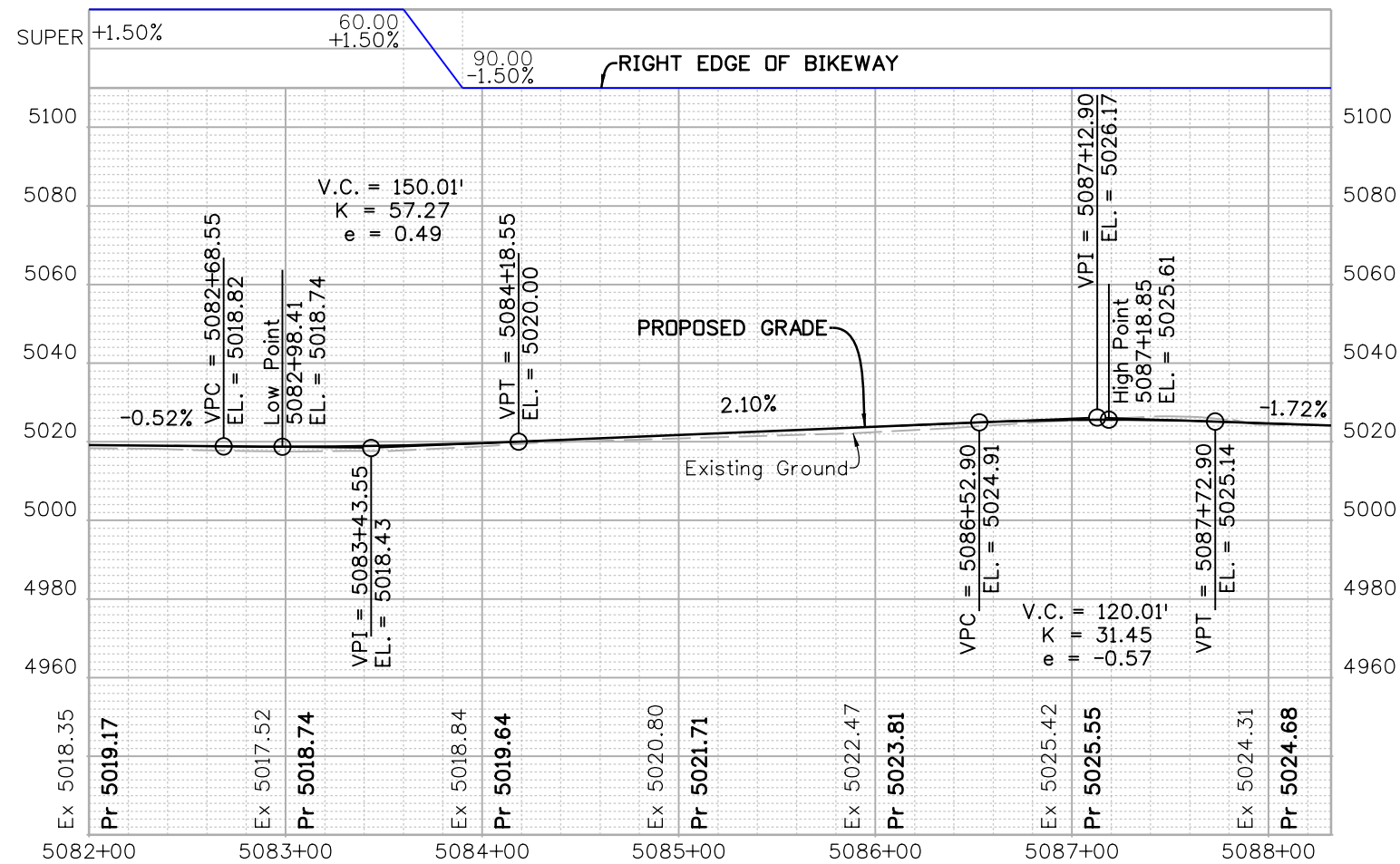
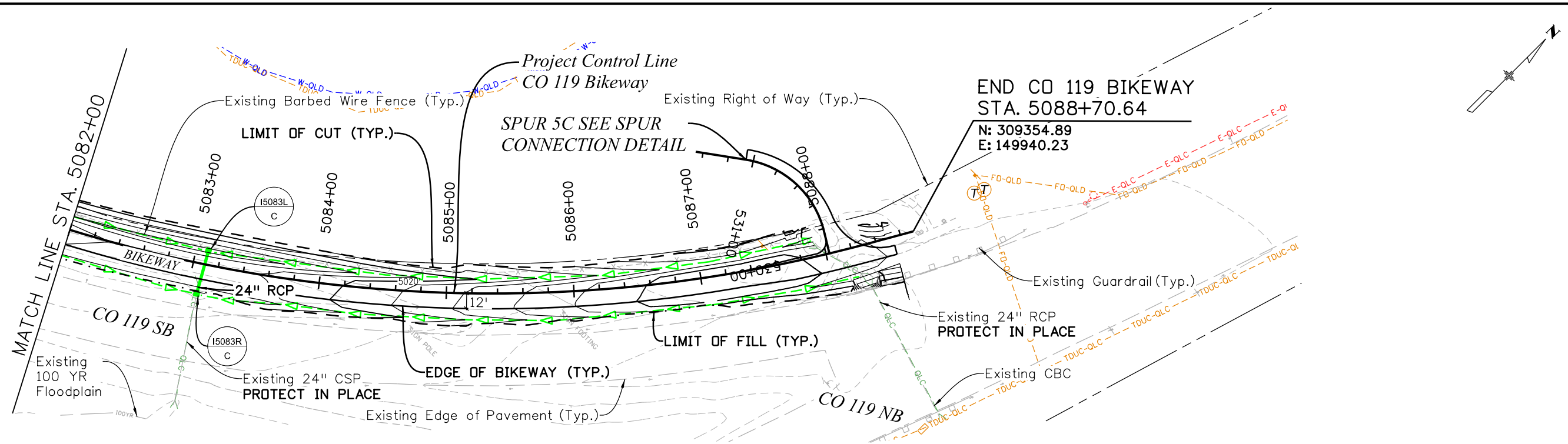


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| All seals for this set of drawings are applied to the cover page(s) | Print Date: 6/28/2022 File Name: 320_21015_RD_Bkwy Pln 42.dgn | Sheet Revisions | | | As Constructed | | CO 119 BIKEWAY | | | Project No./Code |
| | Horiz. Scale: Vert. Scale: As Noted | Date: | Comments | Init. | No Revisions: | | BIKEWAY PLAN & PROFILE | | | |
| | Unit Information | | | | Revised: | Designer: LRN | Structure Numbers | | | |
| | | | | | Void: | Detailer: PDP | Subset Sheets: 42 of 44 | Sheet Number 66 | | |

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| All seals for this set of drawings are applied to the cover page(s) | Print Date: 6/28/2022 File Name: 320_21015_RD_Bkwy Pln 43.dgn | Sheet Revisions | | As Constructed No Revisions: | CD 119 BIKEWAY BIKEWAY PLAN & PROFILE | | Project No./Code | | | | | | | | | | | | |
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| | Horiz. Scale: Vert. Scale: As Noted | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Date:</th> <th>Comments</th> <th>Init.</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table> | | Date: | Comments | Init. | | | | | | | | | | Revised: Void: | Designer: LRN Detailer: PDP Sheet Subset: P&P | Structure Numbers: Subset Sheets: 43 of 44 | Sheet Number 67 |
| | Date: | Comments | | Init. | | | | | | | | | | | | | | | |
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| Unit Information | Muller Engineering Company | Muller Engineering Company | Void: | Sheet Subset: P&P | Subset Sheets: 43 of 44 | Sheet Number 67 | | | | | | | | | | | | | |



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All seals for this set of drawings are applied to the cover page(s)

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| Print Date: 6/28/2022 | |
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| Horiz. Scale: | Vert. Scale: As Noted |
| Unit Information | |
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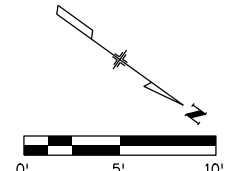
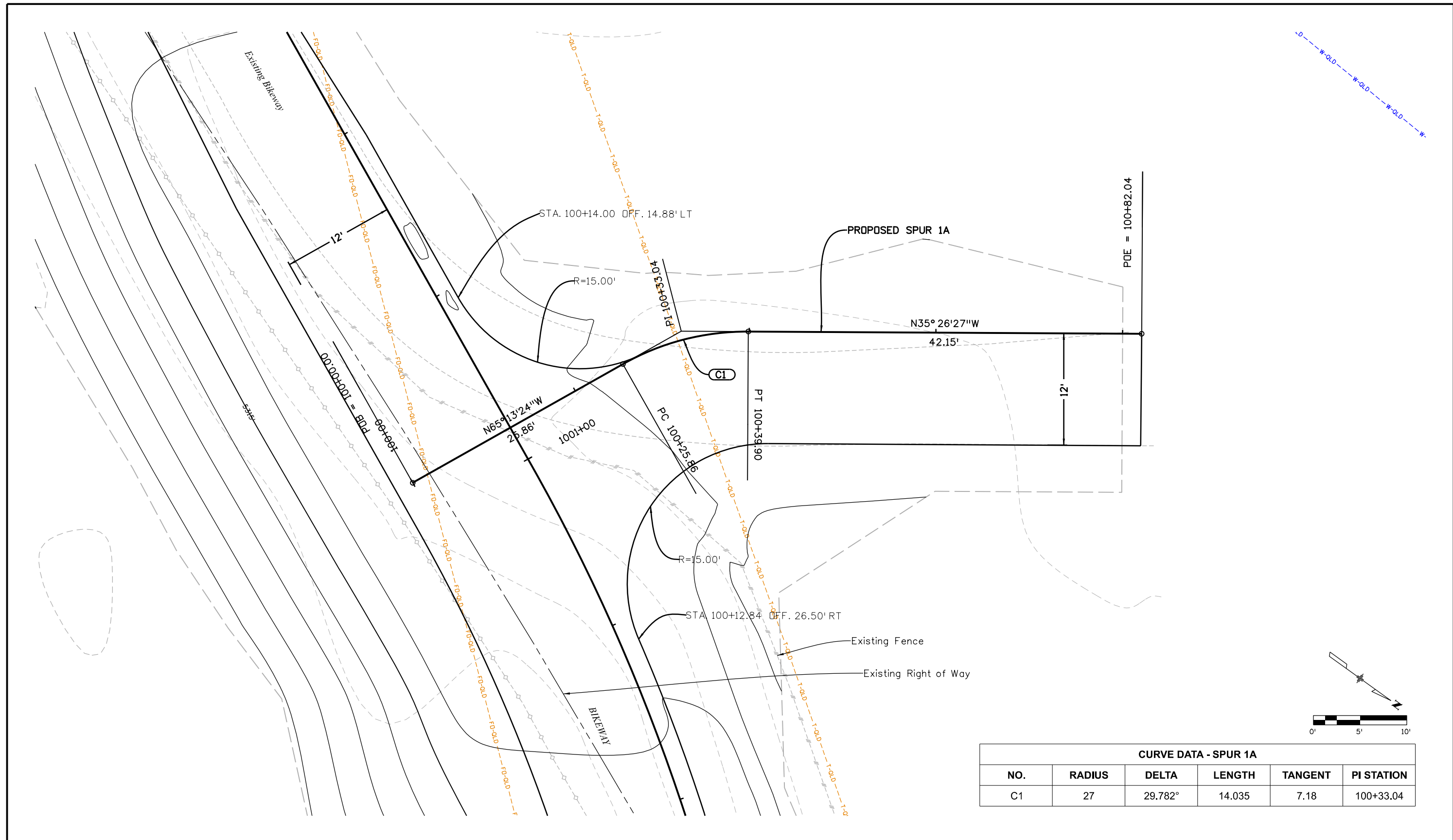
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| As Constructed | CD 119 BIKEWAY | |
| No Revisions: | BIKEWAY PLAN & PROFILE | |
| Revised: | Designer: LRN | Structure Numbers |
| Void: | Detailer: PDP | Subset Sheets: 44 of 44 |
| | Sheet Subset: P&P | |

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| Project No./Code | |
| Sheet Number 68 | |

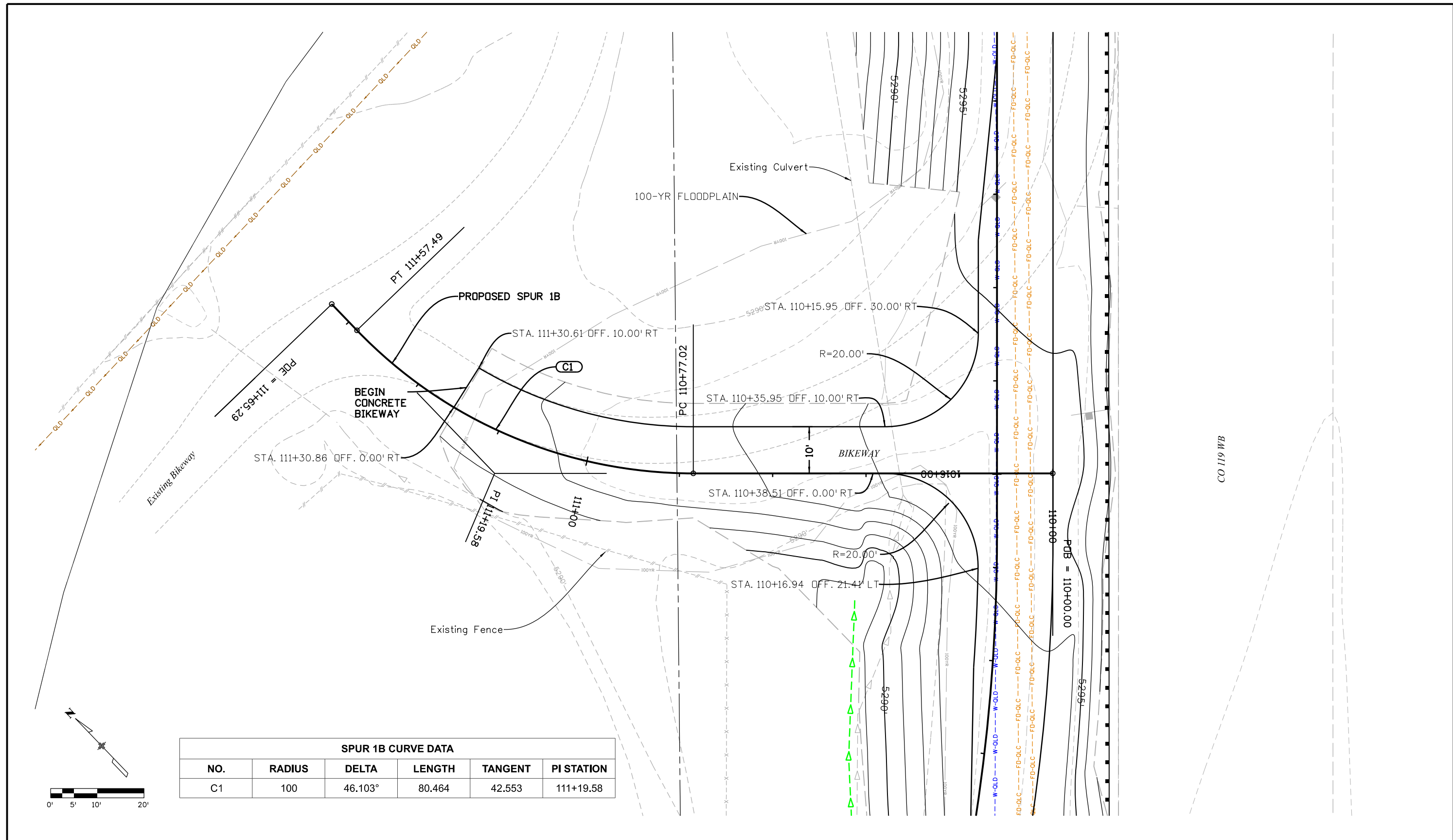
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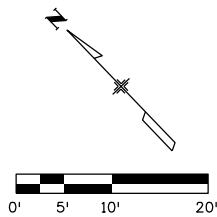
| CURVE DATA - SPUR 1A | | | | | |
|----------------------|--------|---------|--------|---------|------------|
| NO. | RADIUS | DELTA | LENGTH | TANGENT | PI STATION |
| C1 | 27 | 29.782° | 14.035 | 7.18 | 100+33.04 |

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| All seals for this set of drawings are applied to the cover page(s) | Print Date: 6/28/2022 | Sheet Revisions | | | | As Constructed | | CD 119 BIKEWAY | | Project No./Code |
| | File Name: 410_21015_RD_Bkwy_Spur_1A_Plan.dgn | Date: | Comments | Init. | | No Revisions: | | BIKEWAY SPUR 1A PLAN & GEOMETRY | | |
| | Horiz. Scale: Vert. Scale: As Noted | | | | | Revised: | Designer: MMA | Structure Numbers | | |
| | Unit Information | | | | | Void: | Detailer: MDC | Subset Sheets: 1 of 25 | Sheet Number 69 | |
| | | | | | Sheet Subset: SPR PLN | | | | | |

Michael Carlson 2:02:15 PM pw:\mullereng-pw.bentley.com:mullereng-pw-01\Documents\2021 Projects\21-015.01 CO 119 Bikeway\01 Pre-Construction\Sheets\410_21015_RD_Bkwy_Spur_1B_Plan



| SPUR 1B CURVE DATA | | | | | |
|--------------------|--------|---------|--------|---------|------------|
| NO. | RADIUS | DELTA | LENGTH | TANGENT | PI STATION |
| C1 | 100 | 46.103° | 80.464 | 42.553 | 111+19.58 |



All seals for this set of drawings are applied to the cover page(s)

Print Date: 6/28/2022
 File Name: 410_21015_RD_Bkwy_Spur_1B_Plan.dgn
 Horiz. Scale: Vert. Scale: As Noted
 Unit Information

| Sheet Revisions | | |
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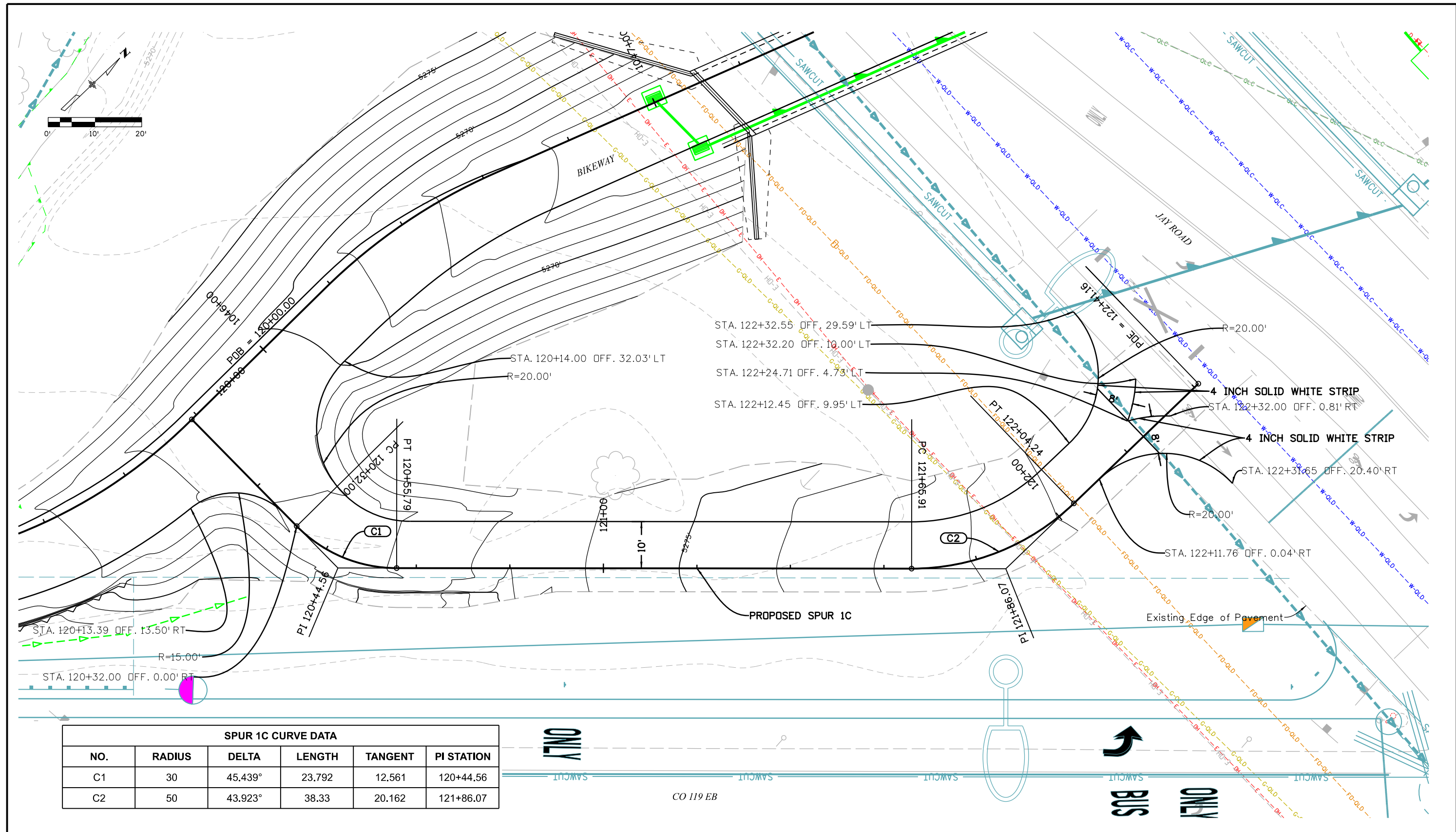
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| As Constructed |
| No Revisions: |
| Revised: |
| Void: |

CO 119 BIKEWAY
**BIKEWAY SPUR 1B
 PLAN & GEOMETRY**

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|-----------------------|------------------------|
| Designer: MMA | Structure Numbers |
| Detailer: MDC | |
| Sheet Subset: SPR PLN | Subset Sheets: 2 of 25 |

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| Project No./Code |
| Sheet Number 70 |

Michael Carlson 2:02:49 PM p:\m\mullereng-pw-01\Documents\2021\Projects\21-015.01 CO 119 Bikeway\01 Pre-Construction\...Sheets\410_21015_RD_Bkwy_Spur 1C_Plan



| SPUR 1C CURVE DATA | | | | | |
|--------------------|--------|---------|--------|---------|------------|
| NO. | RADIUS | DELTA | LENGTH | TANGENT | PI STATION |
| C1 | 30 | 45.439° | 23.792 | 12.561 | 120+44.56 |
| C2 | 50 | 43.923° | 38.33 | 20.162 | 121+86.07 |

All seals for this set of drawings are applied to the cover page(s)

Print Date: 6/28/2022
 File Name: 410_21015_RD_Bkwy_Spur 1C_Plan.dgn
 Horiz. Scale: Vert. Scale: As Noted
 Unit Information

| Sheet Revisions | | |
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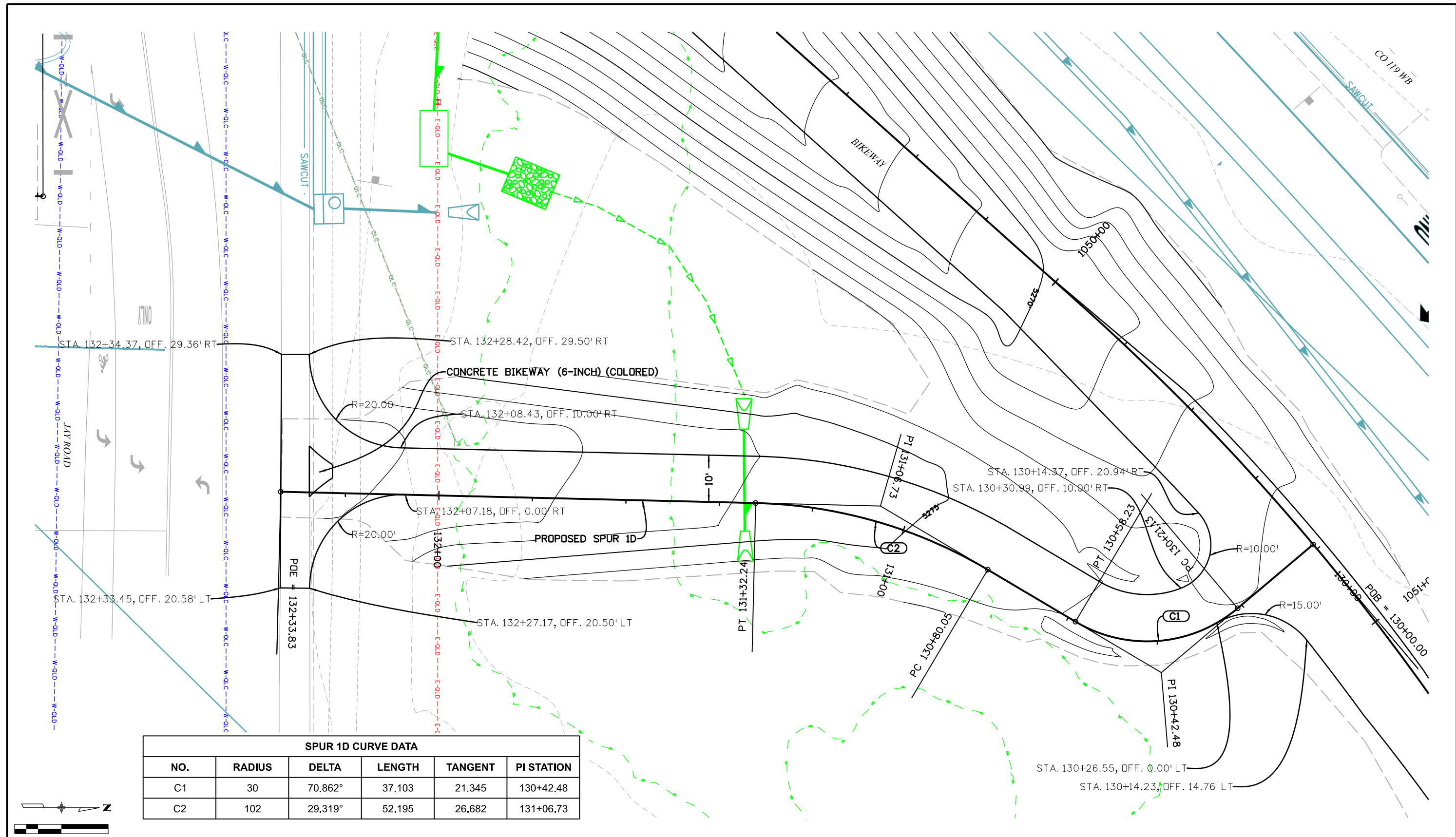
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| As Constructed | |
| No Revisions: | |
| Revised: | |
| Void: | |

CD 119 BIKEWAY
**BIKEWAY SPUR 1C
 PLAN & GEOMETRY**

Designer: MMA
 Detailer: MDC
 Sheet Subset: SPR PLN
 Structure Numbers:
 Subset Sheets: 3 of 25

Project No./Code
 Sheet Number **71**

Michael Carlson 2:03:20 PM P:\m\mullereng-pw-01\Documents\2021 Projects\21-015.01 CO 119 Bikeway\01 Pre-Construction\...Sheets\410_21015_RD_Bkwy_Spur_ID_Plan



| SPUR 1D CURVE DATA | | | | | |
|--------------------|--------|---------|--------|---------|------------|
| NO. | RADIUS | DELTA | LENGTH | TANGENT | PI STATION |
| C1 | 30 | 70.862° | 37.103 | 21.345 | 130+42.48 |
| C2 | 102 | 29.319° | 52.195 | 26.682 | 131+06.73 |

All seals for this set of drawings are applied to the cover page(s)

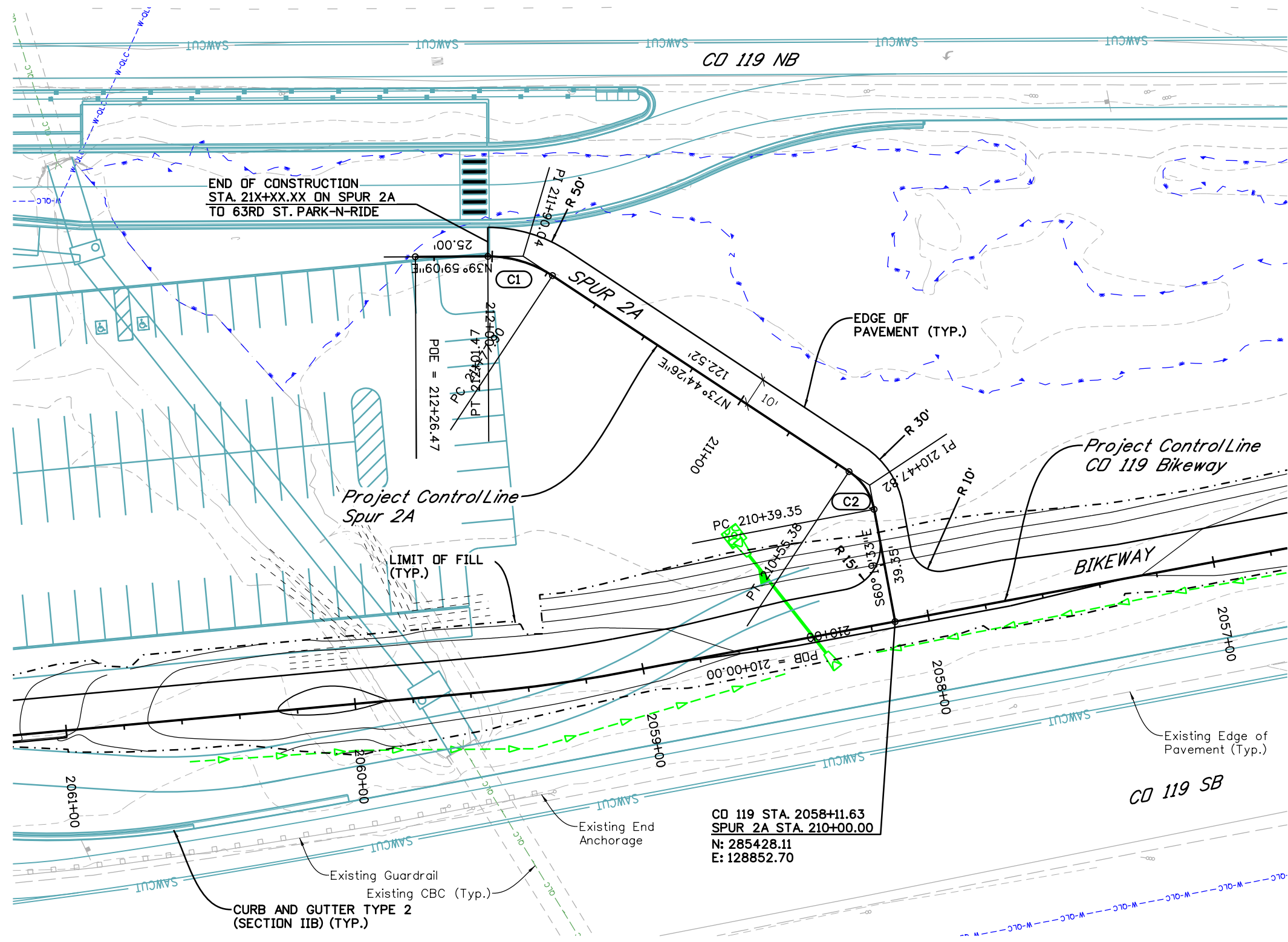
Print Date: 6/28/2022
 File Name: 410_21015_RD_Bkwy_Spur 1D_Plan.dgn
 Horiz. Scale: Vert. Scale: As Noted
 Unit Information

| Sheet Revisions | | |
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| As Constructed | CD 119 BIKEWAY BIKEWAY SPUR 1D PLAN & GEOMETRY | Project No./Code | |
| No Revisions: | | | |
| Revised: | | Designer: MMA | Structure Numbers |
| Void: | | Detailer: MDC | |
| Sheet Subset: SPR PLN | | Subset Sheets: 4 of 25 | Sheet Number 72 |

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CD 119 STA. 2058+11.63
 SPUR 2A STA. 210+00.00
 N: 285428.11
 E: 128852.70

| SPUR 2A CURVE DATA | | | | | |
|--------------------|--------|-----------|--------|---------|------------|
| NO. | RADIUS | DELTA | LENGTH | TANGENT | PI STATION |
| C1 | 20' | 45°56'01" | 16.03' | 8.48' | 210+47.82 |
| C2 | 40' | 33°45'18" | 23.57' | 12.14' | 211+90.04 |

All seals for this set of drawings are applied to the cover page(s)

Print Date: 6/29/2022
 File Name: 420-21015_RD_Bkwy_Spur_2A_Plan.dwg
 Horiz. Scale: Vert. Scale: As Noted
 Unit Information

| Sheet Revisions | | |
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| Date: | Comments | Init. |
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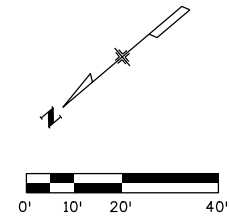
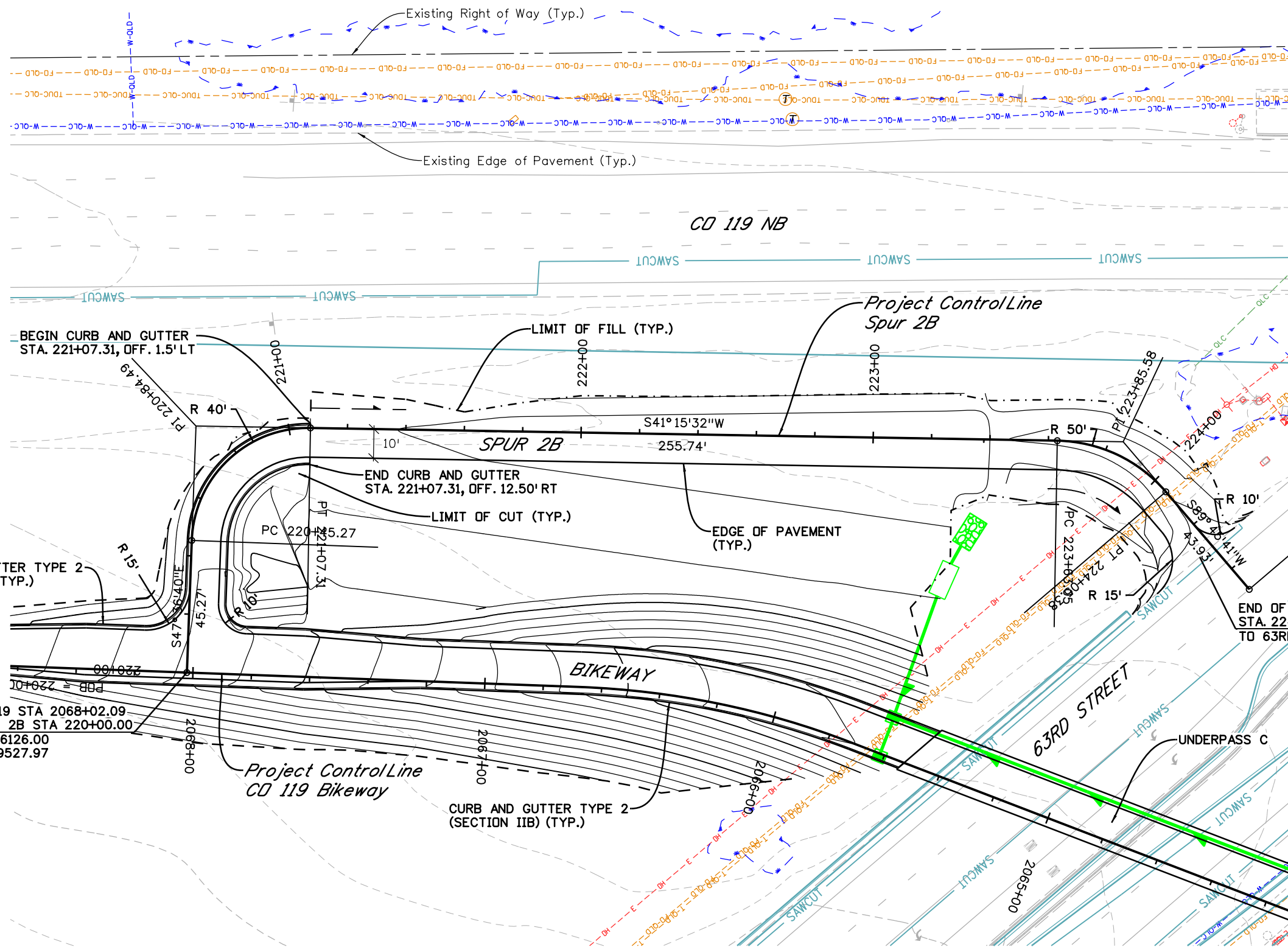
As Constructed
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 Revised:
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CD 119 BIKEWAY
**BIKEWAY SPUR 2A
 PLAN & GEOMETRY**

Designer: RML Structure Numbers
 Detailer: PDP
 Sheet Subset: SPR PLN Subset Sheets: 5 of 25

Project No./Code
 Sheet Number **73**

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| SPUR 2B CURVE DATA | | | | | |
|--------------------|--------|-----------|--------|---------|------------|
| NO. | RADIUS | DELTA | LENGTH | TANGENT | PI STATION |
| C1 | 40' | 88°52'12" | 62.04' | 39.22' | 220+84.49 |
| C2 | 50' | 48°30'09" | 42.33' | 22.52' | 223+85.58 |

All seals for this set of drawings are applied to the cover page(s)

Print Date: 6/29/2022
 File Name: 420_21015_RD_Bkwy_Spur_2B_Plan.dwg
 Horiz. Scale: Vert. Scale: As Noted
 Unit Information

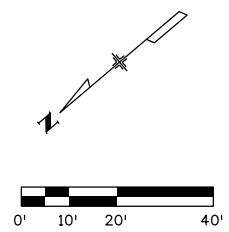
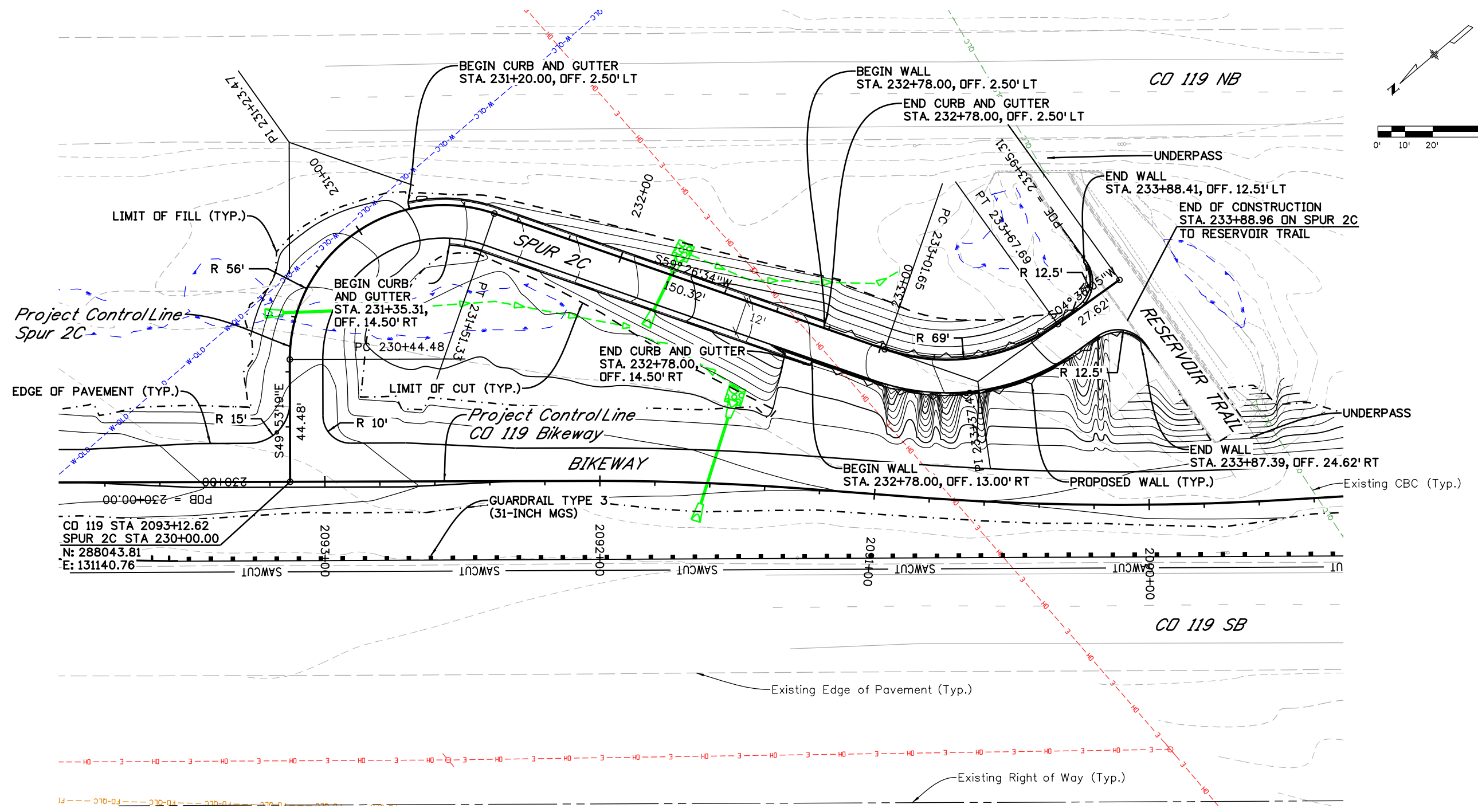
| Sheet Revisions | | |
|-----------------|----------|-------|
| Date: | Comments | Init. |
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| As Constructed | CD 119 BIKEWAY | |
| No Revisions: | BIKEWAY SPUR 2B | |
| Revised: | PLAN & GEOMETRY | |
| Void: | Designer: RML | Structure Numbers |
| | Detailer: PDP | |
| | Sheet Subset: SPR PLN | Subset Sheets: 6 of 16 |

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| Project No./Code | |
| Sheet Number | 74 |

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CD 119 STA 2093+12.62
 SPUR 2C STA 230+00.00
 N: 288043.81
 E: 131140.76

| SPUR 2C CURVE DATA | | | | | |
|--------------------|--------|------------|---------|---------|------------|
| NO. | RADIUS | DELTA | LENGTH | TANGENT | PI STATION |
| C1 | 56' | 109°19'53" | 106.86' | 78.99' | 231+23.47 |
| C2 | 69' | 54°50'29" | 66.04' | 35.80' | 233+37.45 |

All seals for this set of drawings are applied to the cover page(s)

Print Date: 6/29/2022
 File Name: 420_21015_RD_Bkwy_Spur_2C_Plan.dgn
 Horiz. Scale: Vert. Scale: As Noted
 Unit Information

| Sheet Revisions | | |
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| Date: | Comments | Init. |
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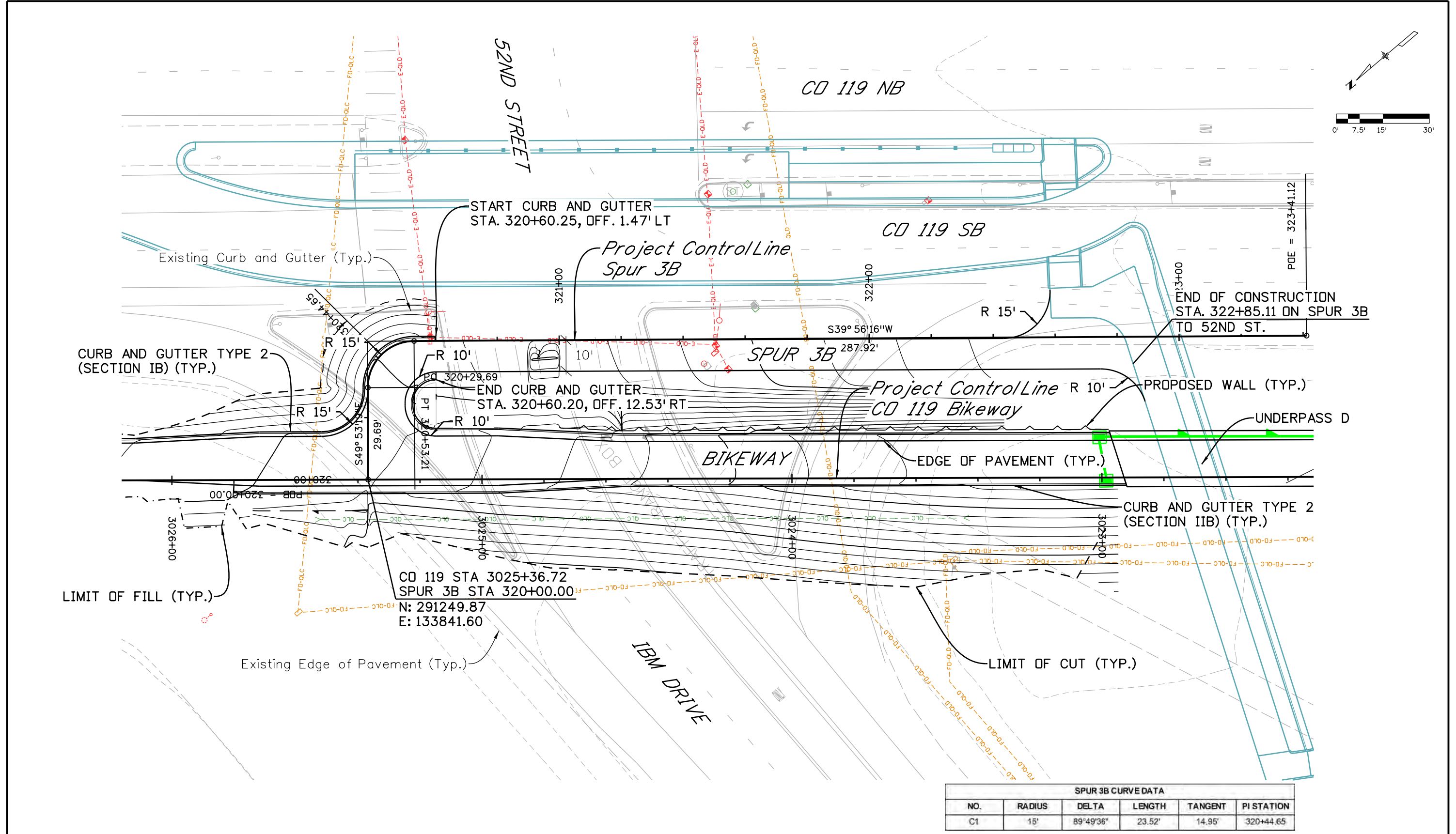
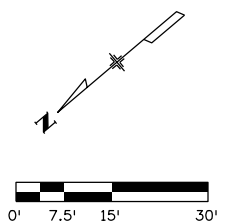


As Constructed
 No Revisions:
 Revised:
 Void:

CD 119 BIKEWAY
**BIKEWAY SPUR 2C
 PLAN & GEOMETRY**
 Designer: RML
 Detailer: PDP
 Sheet Subset: SPR PLN
 Structure Numbers:
 Subset Sheets: 7 of 25

Project No./Code
 Sheet Number **75**

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CD 119 STA 3025+36.72
 SPUR 3B STA 320+00.00
 N: 291249.87
 E: 133841.60

| SPUR 3B CURVE DATA | | | | | |
|--------------------|--------|-----------|--------|---------|------------|
| NO. | RADIUS | DELTA | LENGTH | TANGENT | PI STATION |
| C1 | 15' | 89°49'36" | 23.52' | 14.95' | 320+44.65 |

All seals for this set of drawings are applied to the cover page(s)

Print Date: 6/28/2022
 File Name: 420_21015_RD_Bkwy_Spur_3B_Plan.dwg
 Horiz. Scale: Vert. Scale: As Noted
 Unit Information

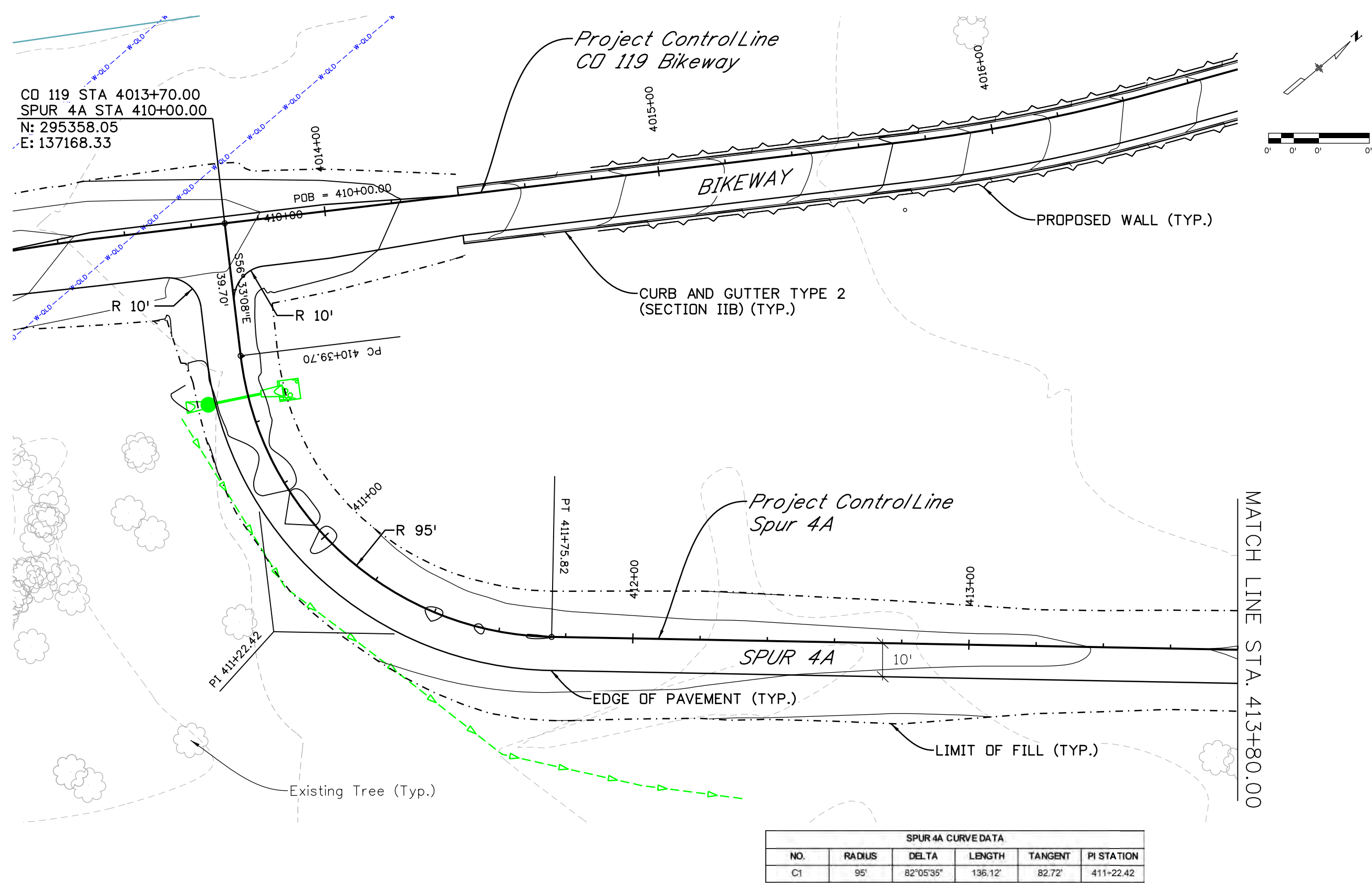
| Sheet Revisions | | |
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| Date: | Comments | Init. |
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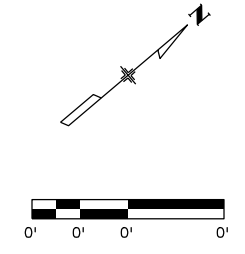
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|----------------|-----------------------|------------------------|
| As Constructed | CD 119 BIKEWAY | |
| No Revisions: | BIKEWAY SPUR 3B | |
| Revised: | PLAN & GEOMETRY | |
| Void: | Designer: RML | Structure Numbers |
| | Detailer: PDP | |
| | Sheet Subset: SPR PLN | Subset Sheets: 9 of 25 |

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|------------------|--|
| Project No./Code | |
| Sheet Number 77 | |

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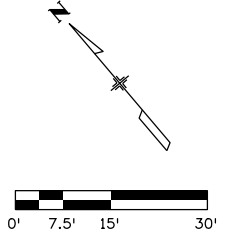
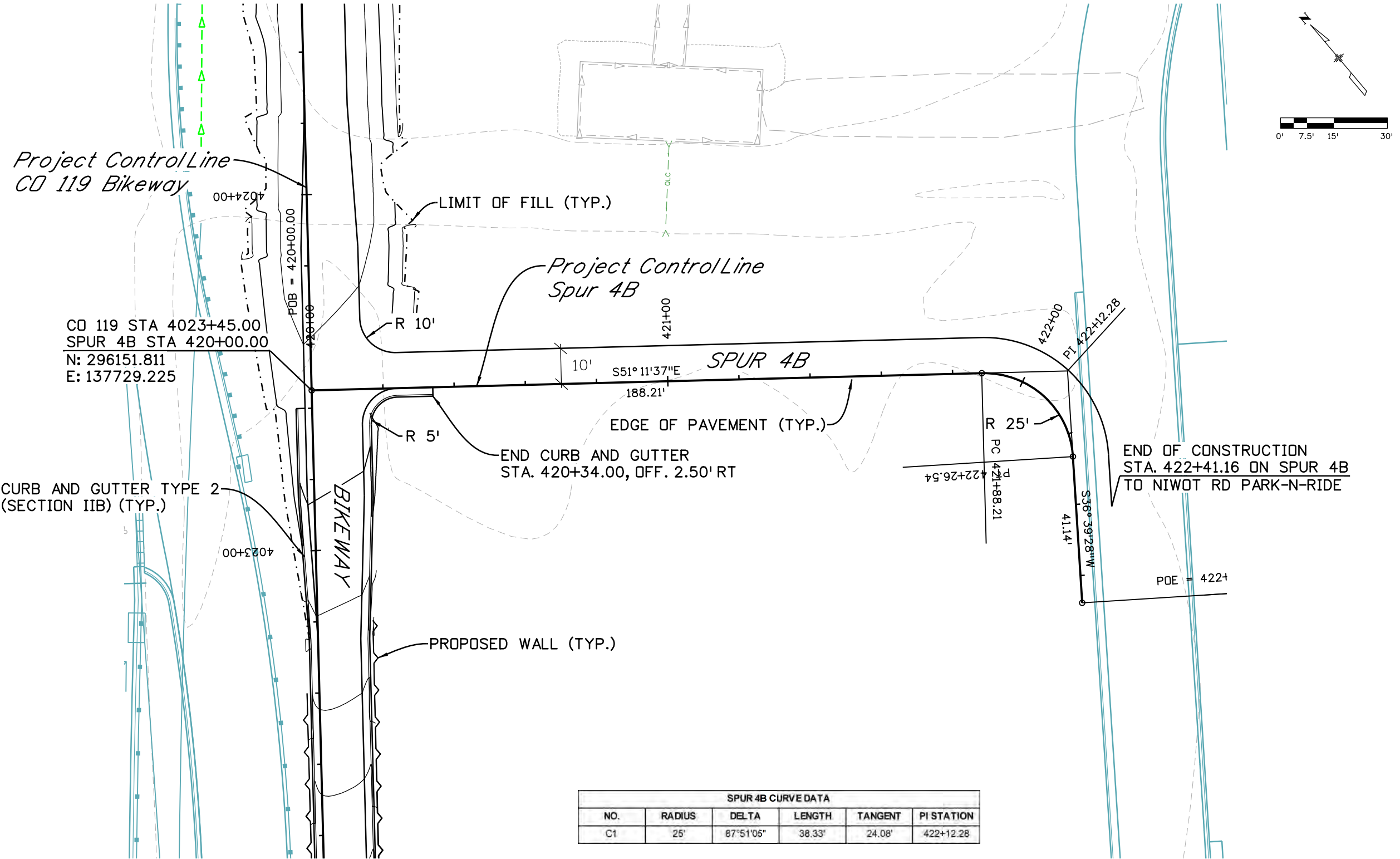
CD 119 STA 4013+70.00
 SPUR 4A STA 410+00.00
 N: 295358.05
 E: 137168.33



| SPUR 4A CURVED DATA | | | | | |
|---------------------|--------|-----------|---------|---------|------------|
| NO. | RADIUS | DELTA | LENGTH | TANGENT | PI STATION |
| C1 | 95' | 82°05'35" | 136.12' | 82.72' | 411+22.42 |

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| All seals for this set of drawings are applied to the cover page(s) | Print Date: 6/28/2022 | Sheet Revisions | | | | As Constructed | | CD 119 BIKEWAY | | Project No./Code |
| | File Name: 420_21015_RD_Bkwy_Spur_4A_Plan 1.dgn | Date: | Comments | Init. | | BIKEWAY SPUR 4A PLAN & GEOMETRY | | Designer: LRN Detailer: PDP | | |
| | Unit Information | | | | | Revised: | | Structure Numbers Sheet Subset: SPR PLN | | |
| | | | | | | | Void: | | Subset Sheets: 10 of 25 | |
| | | | | | | | | | | Sheet Number 78 |

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All seals for this set of drawings are applied to the cover page(s)

Print Date: 6/28/2022
 File Name: 420_21015_RD_Bkwy_Spur_4B_Plan.dgn
 Horiz. Scale: Vert. Scale: As Noted
 Unit Information

| Sheet Revisions | | |
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| Date: | Comments | Init. |
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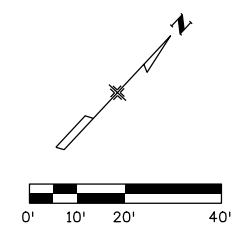
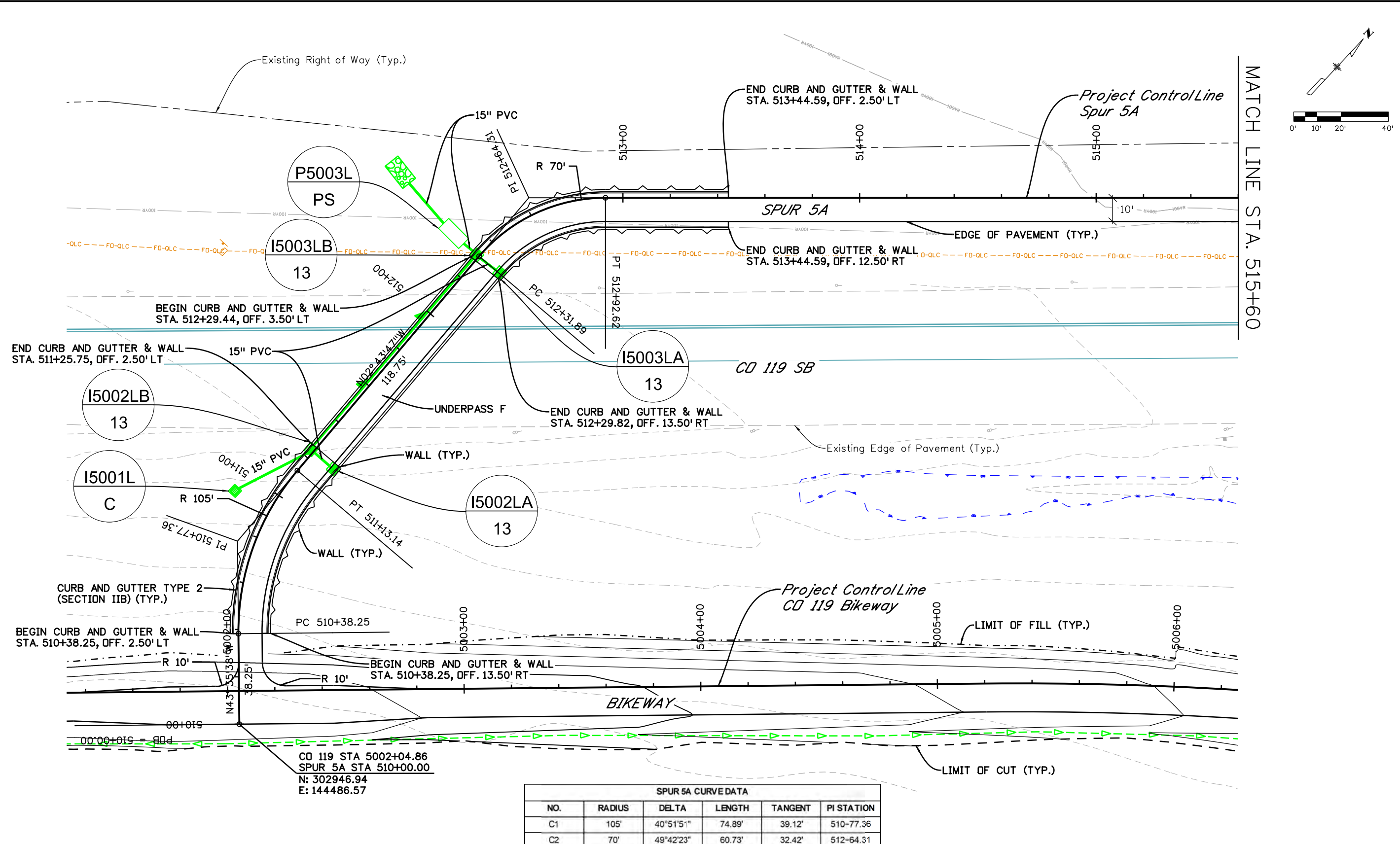
As Constructed
 No Revisions:
 Revised:
 Void:

CD 119 BIKEWAY
**BIKEWAY SPUR 4B
 PLAN & GEOMETRY**

Designer: LRN
 Detailer: PDP
 Sheet Subset: SPR PLN
 Structure Numbers:
 Subset Sheets: 12 of 25

Project No./Code
 Sheet Number **80**

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| SPUR 5A CURVED DATA | | | | | |
|---------------------|--------|-----------|--------|---------|------------|
| NO. | RADIUS | DELTA | LENGTH | TANGENT | PI STATION |
| C1 | 105' | 40°51'51" | 74.89' | 39.12' | 510-77.36 |
| C2 | 70' | 49°42'23" | 60.73' | 32.42' | 512-64.31 |

CD 119 STA 5002+04.86
 SPUR 5A STA 510+00.00
 N: 302946.94
 E: 144486.57

All seals for this set of drawings are applied to the cover page(s)

Print Date: 6/29/2022
 File Name: 420_21015_RD_Bkwy_Spur 5A_Plan 1.dgn
 Horiz. Scale: Vert. Scale: As Noted
 Unit Information

| Sheet Revisions | | |
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| Date: | Comments | Init. |
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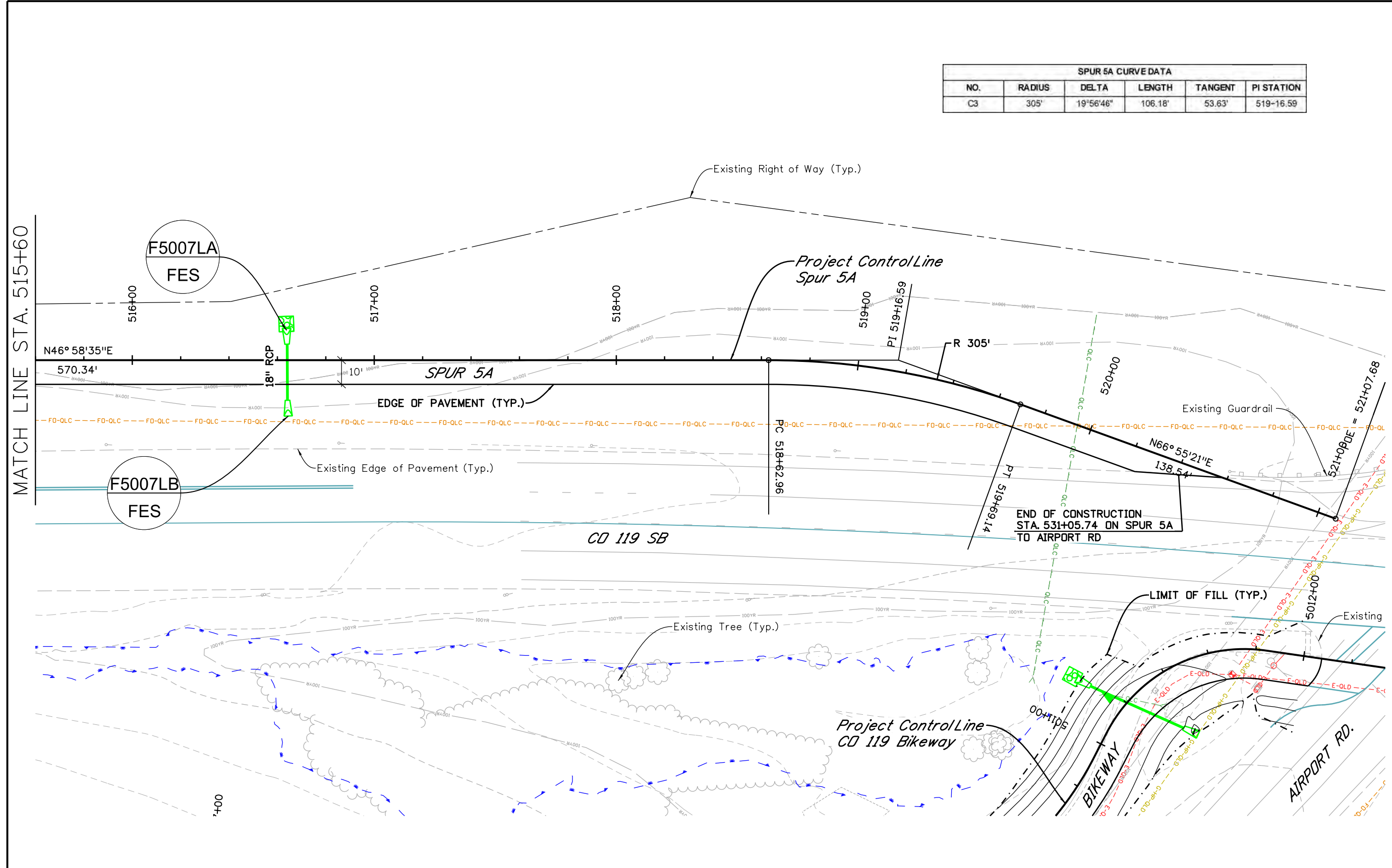
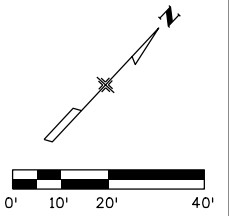


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|----------------|-----------------------|-------------------------|
| As Constructed | CD 119 BIKEWAY | |
| No Revisions: | BIKEWAY SPUR 5A | |
| Revised: | PLAN & GEOMETRY | |
| Void: | Designer: LRN | Structure Numbers |
| | Detailer: PDP | |
| | Sheet Subset: SPR PLN | Subset Sheets: 13 of 25 |

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| Project No./Code | |
| | |
| Sheet Number 81 | |

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| SPUR 5A CURVE DATA | | | | | |
|--------------------|--------|-----------|---------|---------|------------|
| NO. | RADIUS | DELTA | LENGTH | TANGENT | PI STATION |
| C3 | 305' | 19°56'46" | 106.18' | 53.63' | 519+16.59 |



All seals for this set of drawings are applied to the cover page(s)

Print Date: 6/28/2022
 File Name: 420_21015_RD_Bkwy_Spur 5A_Plan 2.dgn
 Horiz. Scale: Vert. Scale: As Noted
 Unit Information

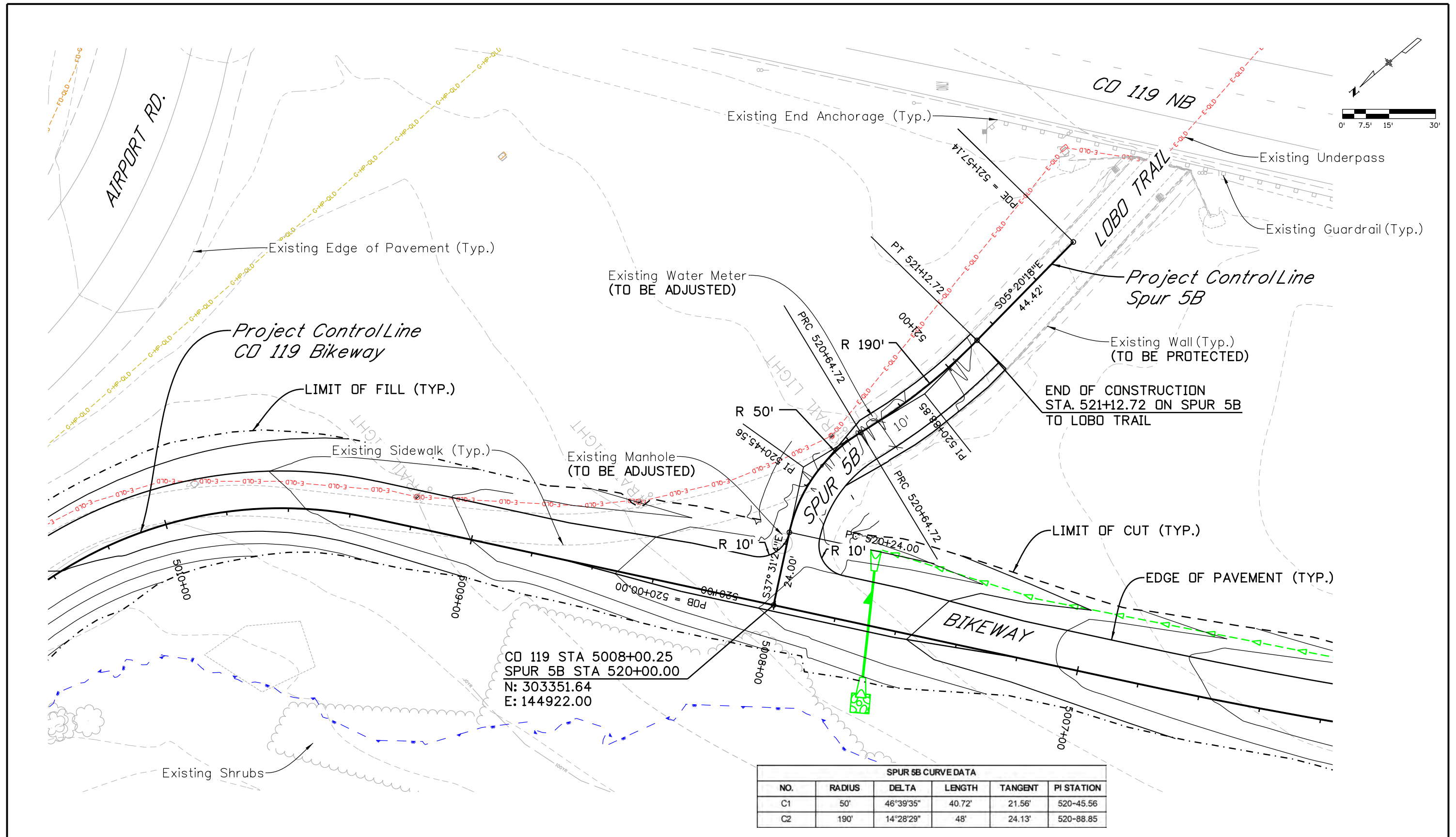
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| Date: | Comments | Init. |
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|----------------|-----------------------|-------------------------|
| As Constructed | CD 119 BIKEWAY | |
| No Revisions: | BIKEWAY SPUR 5A | |
| Revised: | PLAN & GEOMETRY | |
| Void: | Designer: LRN | Structure Numbers |
| | Detailer: PDP | |
| | Sheet Subset: SPR PLN | Subset Sheets: 14 of 25 |

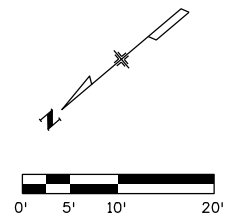
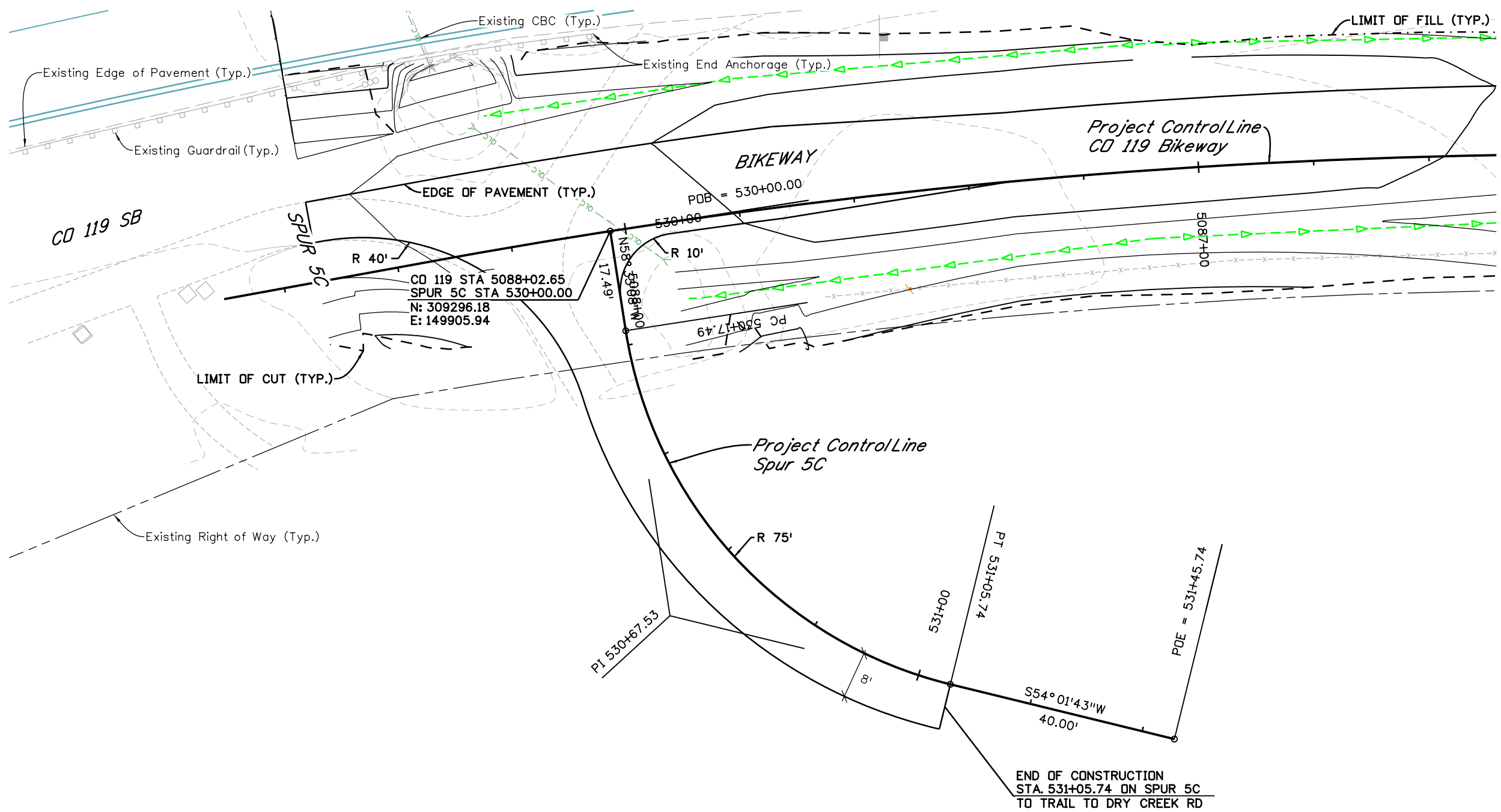
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| Project No./Code | |
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| Sheet Number 82 | |

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| All seals for this set of drawings are applied to the cover page(s) | Print Date: 6/29/2022 | Sheet Revisions | | | | As Constructed | | CD 119 BIKEWAY | | Project No./Code |
| | File Name: 420_21015_RD_Bkwy Spur 5B_Plan.dwg | Date: | Comments | Init. | | No Revisions: | | BIKEWAY SPUR 5B | | |
| | Horiz. Scale: Vert. Scale: As Noted | | | | | | | Revised: | | |
| | Unit Information | | | | | Void: | | | | |
| | | | | | Sheet Subset: SPR PLN | | | Subset Sheets: 15 of 25 | Sheet Number 83 | |

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| SPUR 5C CURVE DATA | | | | | |
|--------------------|--------|-----------|--------|---------|------------|
| NO. | RADIUS | DELTA | LENGTH | TANGENT | PI STATION |
| C1 | 75' | 67°25'10" | 88.25' | 50.04' | 530+67.53 |

All seals for this set of drawings are applied to the cover page(s)

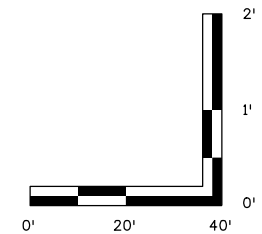
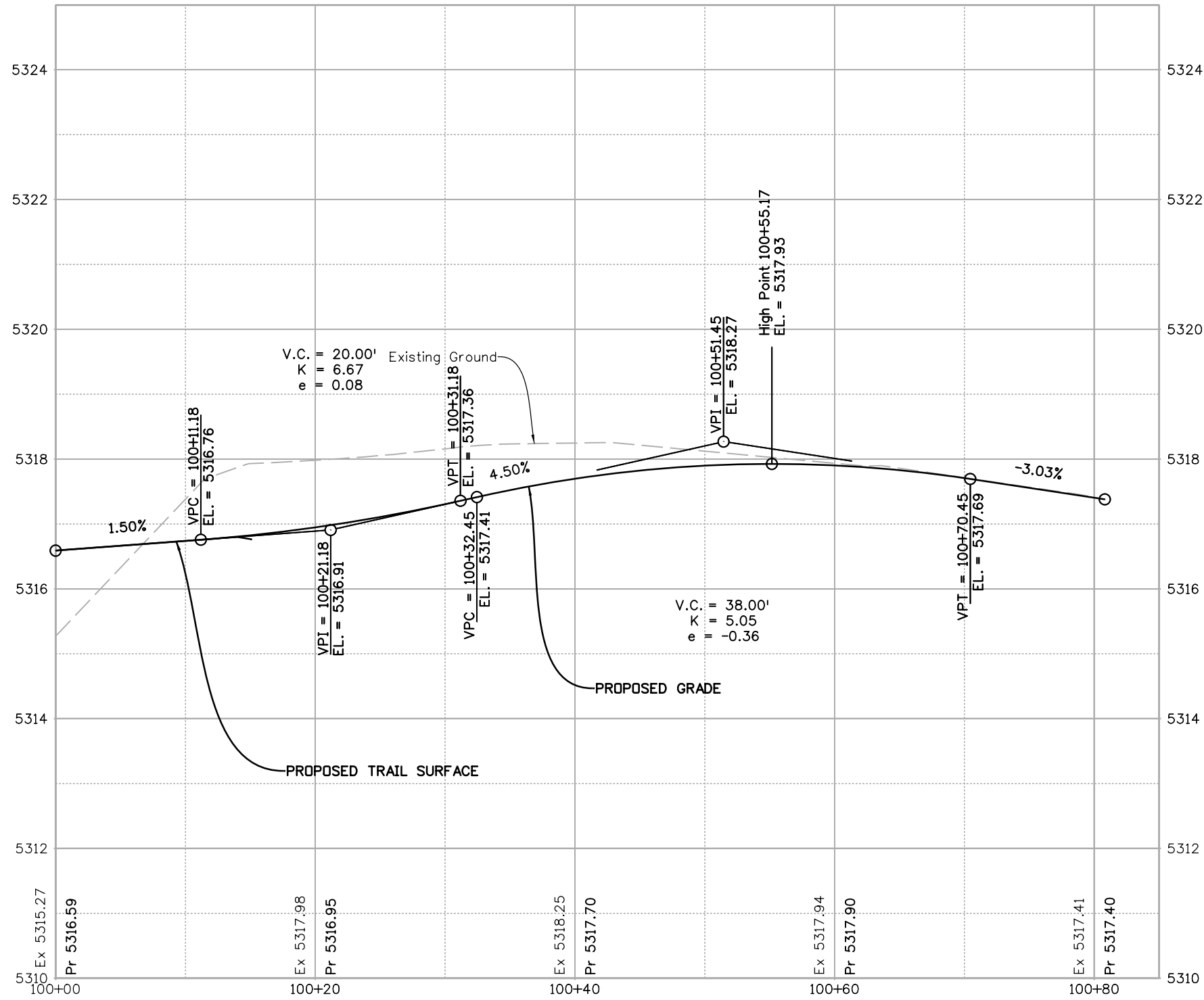
Print Date: 6/28/2022
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 Unit Information

| Sheet Revisions | | |
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| Date: | Comments | Init. |
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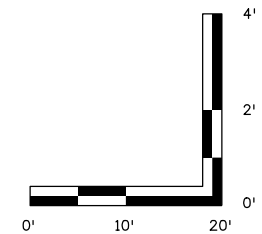
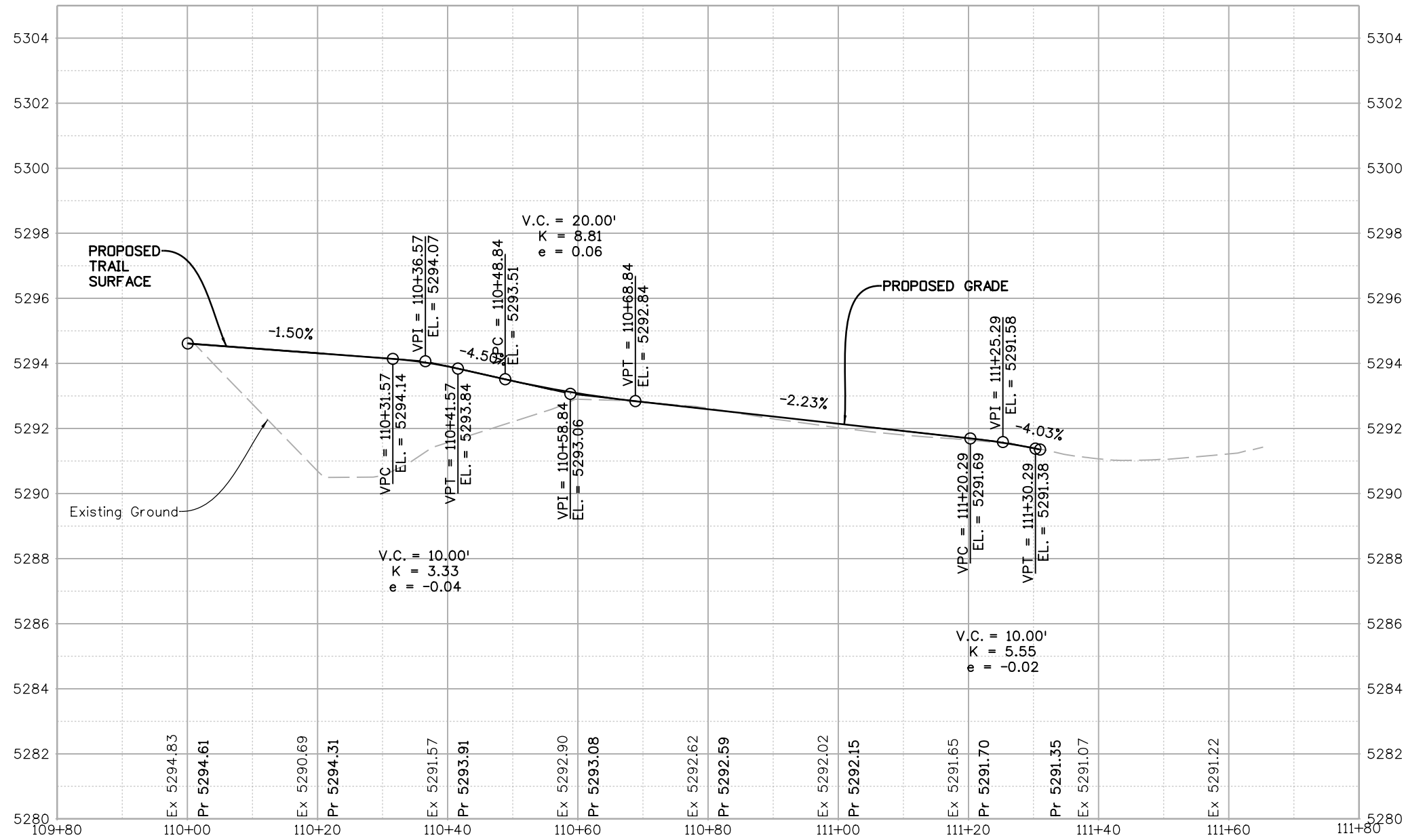
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|-----------------------|---|-------------------------|------------------------|
| As Constructed | CD 119 BIKEWAY BIKEWAY SPUR 5C PLAN & GEOMETRY | Project No./Code | |
| No Revisions: | | | |
| Revised: | | Designer: LRN | Structure Numbers |
| Void: | | Detailer: PDP | |
| Sheet Subset: SPR PLN | | Subset Sheets: 16 of 25 | Sheet Number 84 |

Michael Carlson 2:04:44 PM pw:\mullereng-pw-bentley.com\mullereng-pw-01\Documents\2021 Projects\21-015.01 CO 119 Bikeway\01 Pre-Construction\Sheets\410_21015_RD_Bkwy_Spur 1A_Pro



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| All seals for this set of drawings are applied to the cover page(s) | Print Date: 6/28/2022 | | Sheet Revisions | | | | As Constructed | | CD 119 BIKEWAY | | Project No./Code | |
| | File Name: 410_21015_RD_Bkwy_Spur 1A_Pro.dgn | | Date: | Comments | Init. | | No Revisions: | BIKEWAY SPUR 1A PROFILE | | Designer: MMA Detailer: MDC | | |
| | Unit Information | | | | | | Revised: | Sheet Subset: SPR PRO Subset Sheets: 17 of 25 | | | | |
| | | | | | | | Void: | | | Sheet Number 85 | | |

Michael Carlson 2:05:09 PM p:\mullereng-pw.bentley.com\mullereng-pw-01\Documents\2021 Projects\21-015.01 CO 119 Bikeway\01 Pre-Construction\Sheets\410_21015_RD_Bkwy Spur 1B_Pro



All seals for this set of drawings are applied to the cover page(s)

Print Date: 6/28/2022
 File Name: 410_21015_RD_Bkwy Spur 1B_Pro.dgn
 Horiz. Scale: Vert. Scale: As Noted
 Unit Information

| Sheet Revisions | | |
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| Date: | Comments | Init. |
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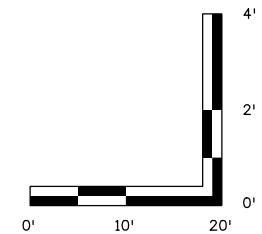
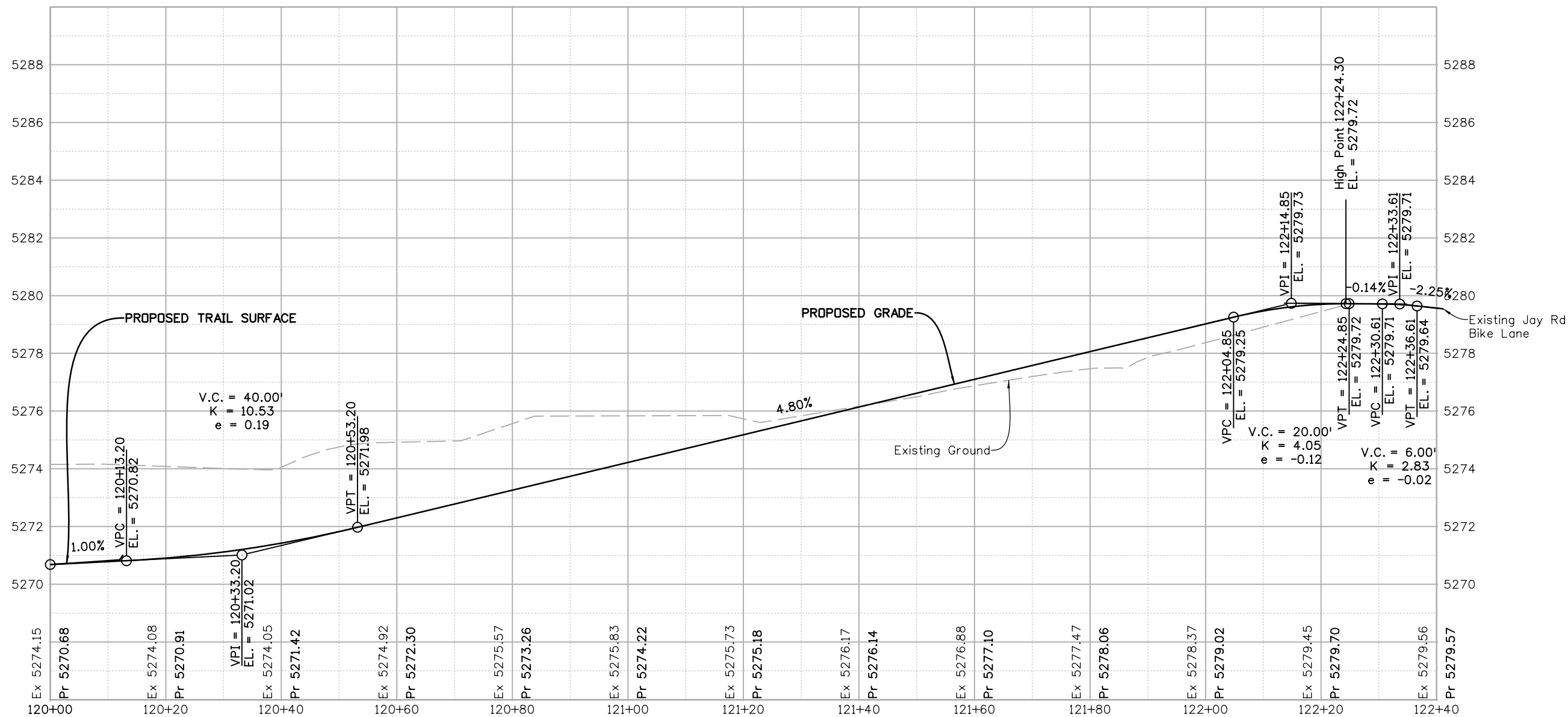


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| As Constructed |
| No Revisions: |
| Revised: |
| Void: |

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| CD 119 BIKEWAY | |
| BIKEWAY SPUR 1B PROFILE | |
| Designer: MMA | Structure Numbers |
| Detailer: MDC | |
| Sheet Subset: SPR PRO | Subset Sheets: 18 of 25 |

| |
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| Project No./Code |
| Sheet Number 86 |

Michael Carlson 2:05:35 PM p:\mullereng-pw\01\Documents\2021 Projects\21-015.01 CO 119 Bikeway\01 Pre-Construction\Sheets\410_21015_RD_Bkwy Spur 1C_Pro



All seals for this set of drawings are applied to the cover page(s)

Print Date: 6/28/2022
 File Name: 410_21015_RD_Bkwy Spur 1C_Pro.dgn
 Horiz. Scale: Vert. Scale: As Noted
 Unit Information

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| Date: | Comments | Init. |
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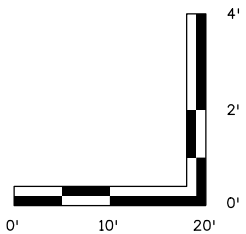
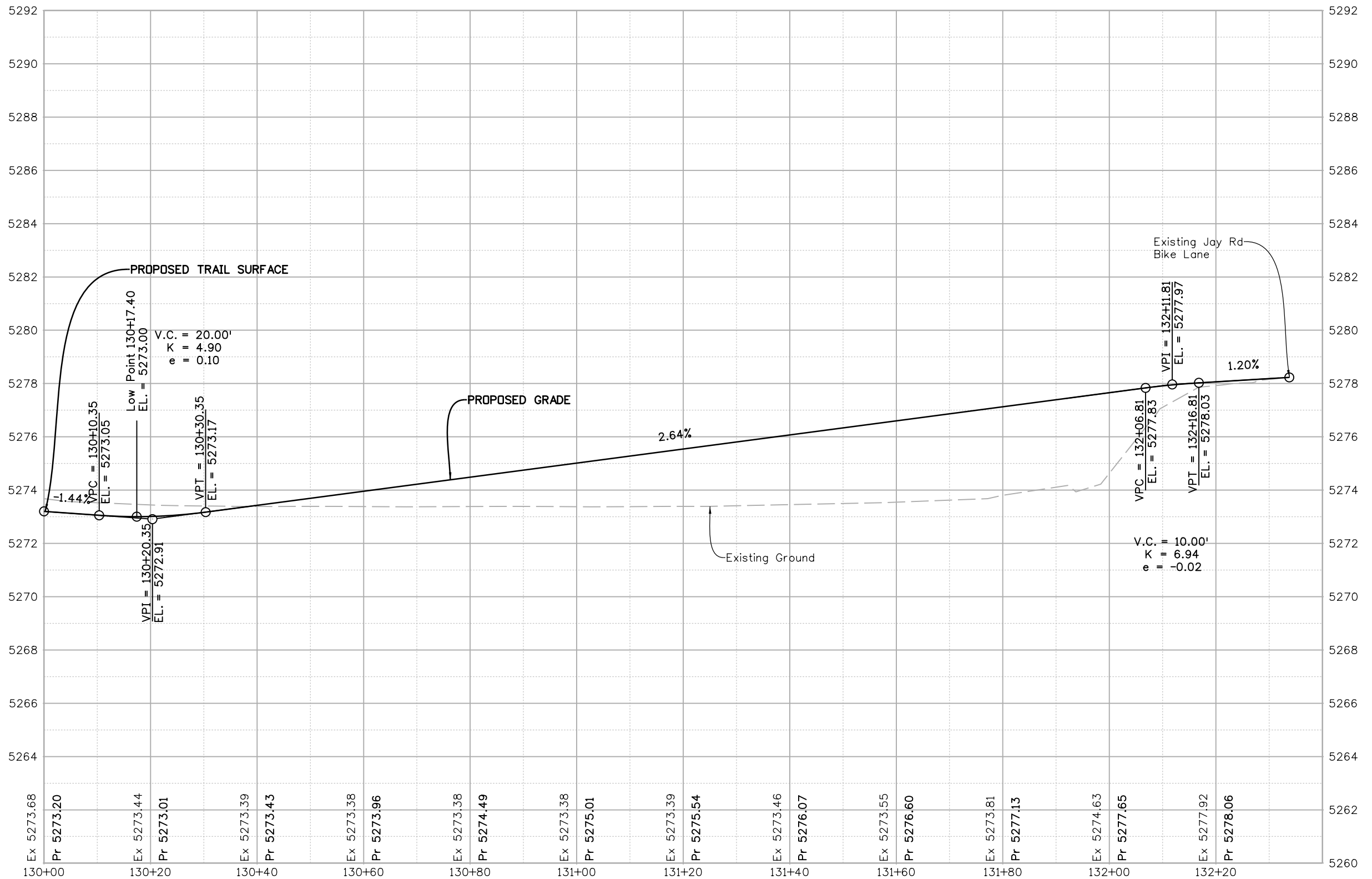


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|----------------|---|
| As Constructed | CD 119 BIKEWAY BIKEWAY SPUR 1C PROFILE |
| No Revisions: | |
| Revised: | |
| Void: | |

| | |
|---------------|---------|
| Designer: | MMA |
| Detailer: | MDC |
| Sheet Subset: | SPR PRO |

| | |
|-------------------|----------|
| Structure Numbers | |
| Subset Sheets: | 19 of 25 |

| | |
|------------------|----|
| Project No./Code | |
| Sheet Number | 87 |



Michael Carlson 2:06:00 PM p:\mullereng-pw\mullereng-pw-01\Documents\2021 Projects\21-015.01 CO 119 Bikeway\01 Pre-Construction\Sheets\410_21015_RD_Bkwy_Spur_ID_Pro

All seals for this set of drawings are applied to the cover page(s)

Print Date: 6/28/2022
 File Name: 410_21015_RD_Bkwy_Spur ID_Pro.dgn
 Horiz. Scale: Vert. Scale: As Noted
 Unit Information

| Sheet Revisions | | |
|-----------------|----------|-------|
| Date: | Comments | Init. |
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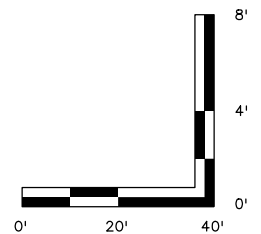
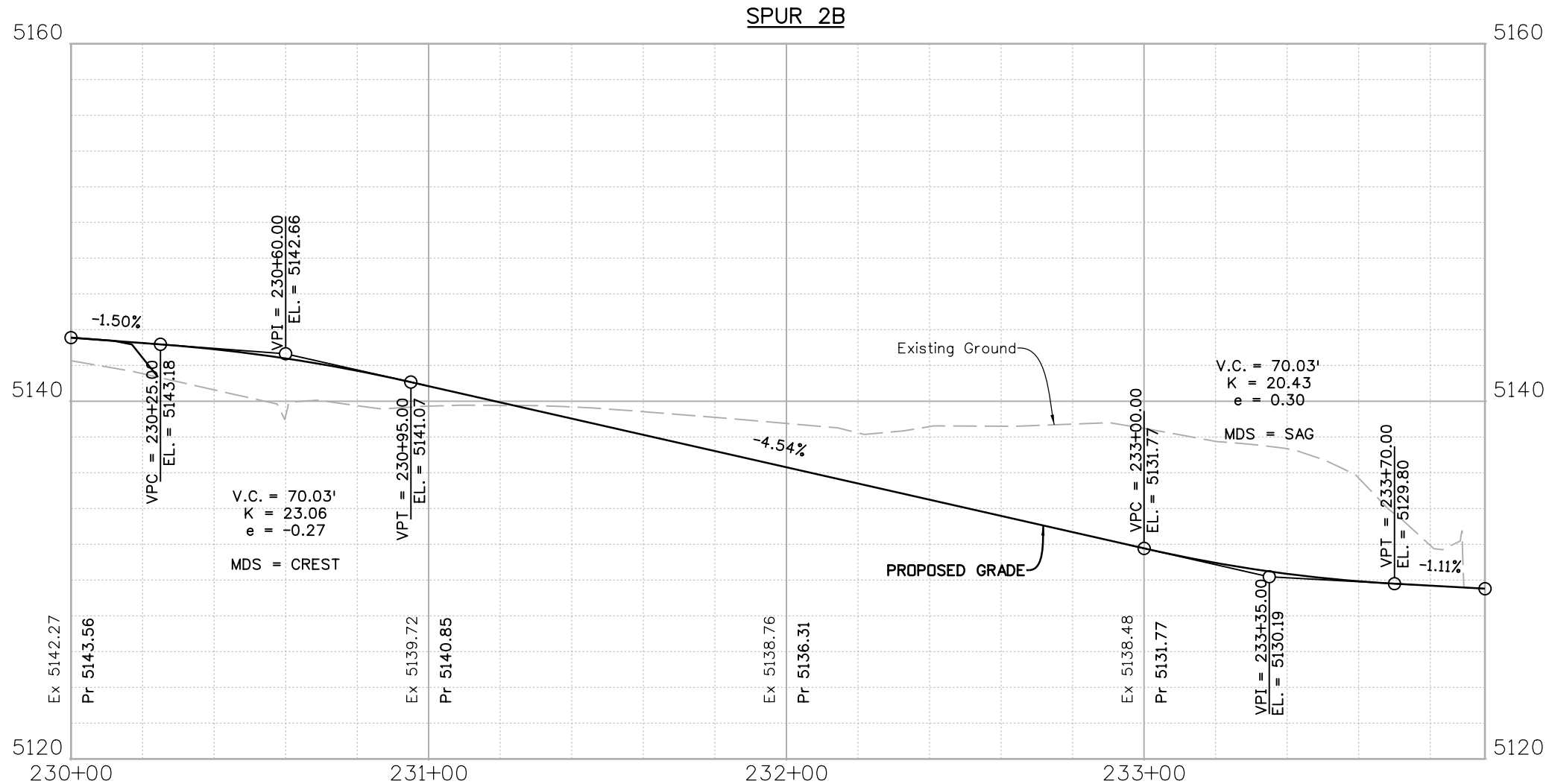
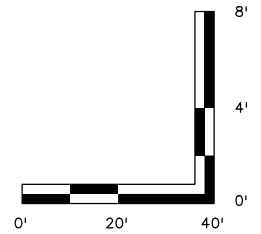
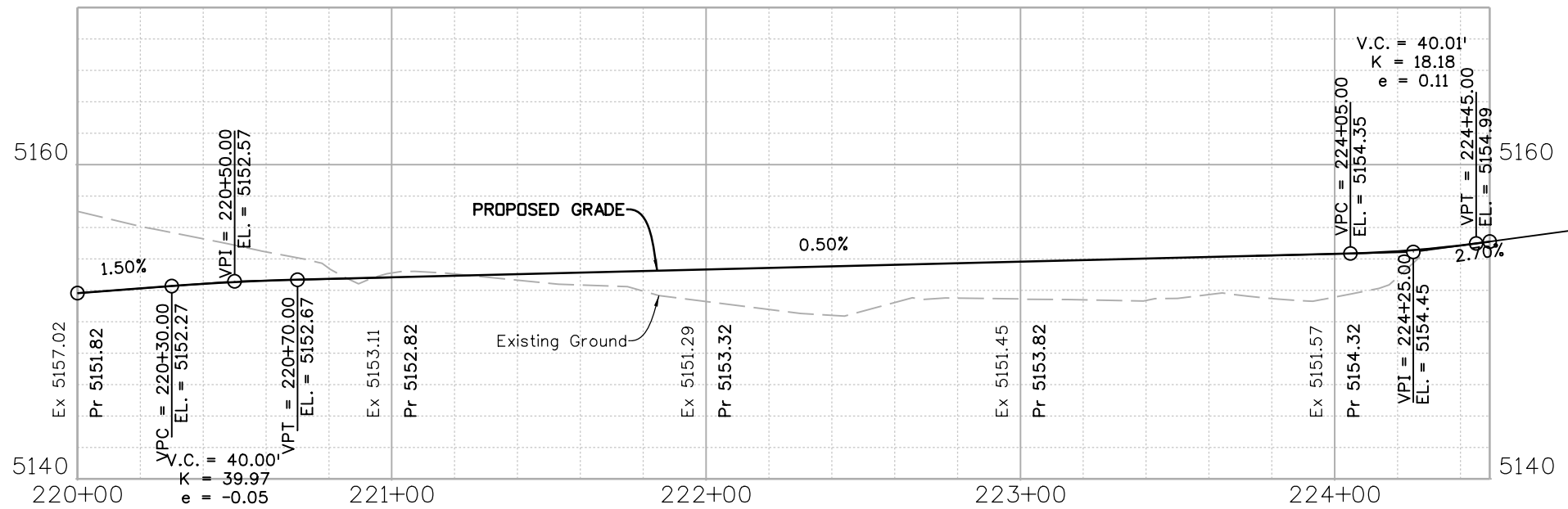
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| As Constructed |
| No Revisions: |
| Revised: |
| Void: |

CO 119 BIKEWAY
BIKEWAY SPUR 1D PROFILE

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|-----------------------|-------------------------|
| Designer: MMA | Structure Numbers |
| Detailer: MDC | |
| Sheet Subset: SPR PRO | Subset Sheets: 20 of 25 |

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| Project No./Code |
| Sheet Number 88 |

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SPUR 2B

SPUR 2C



All seals for this set of drawings are applied to the cover page(s)

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| Print Date: 6/28/2022 |
| File Name: 421_21015_RD_Bkwy Spur 2BC_Pro.dgn |
| Horiz. Scale: Vert. Scale: As Noted |
| Unit Information |
| MULLER ENGINEERING COMPANY |

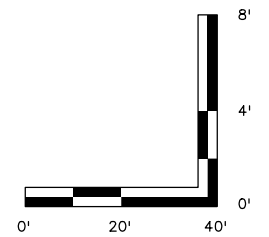
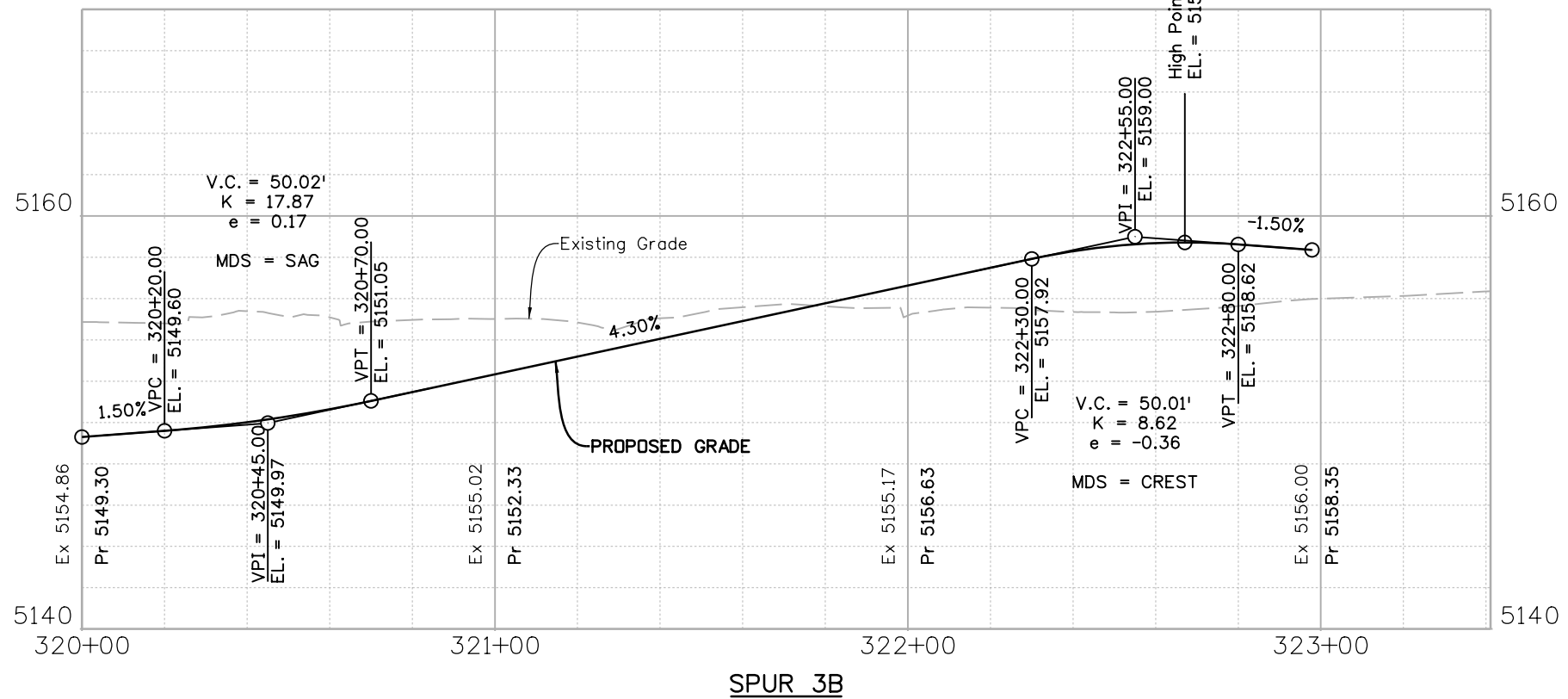
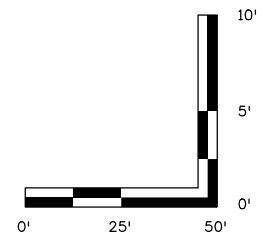
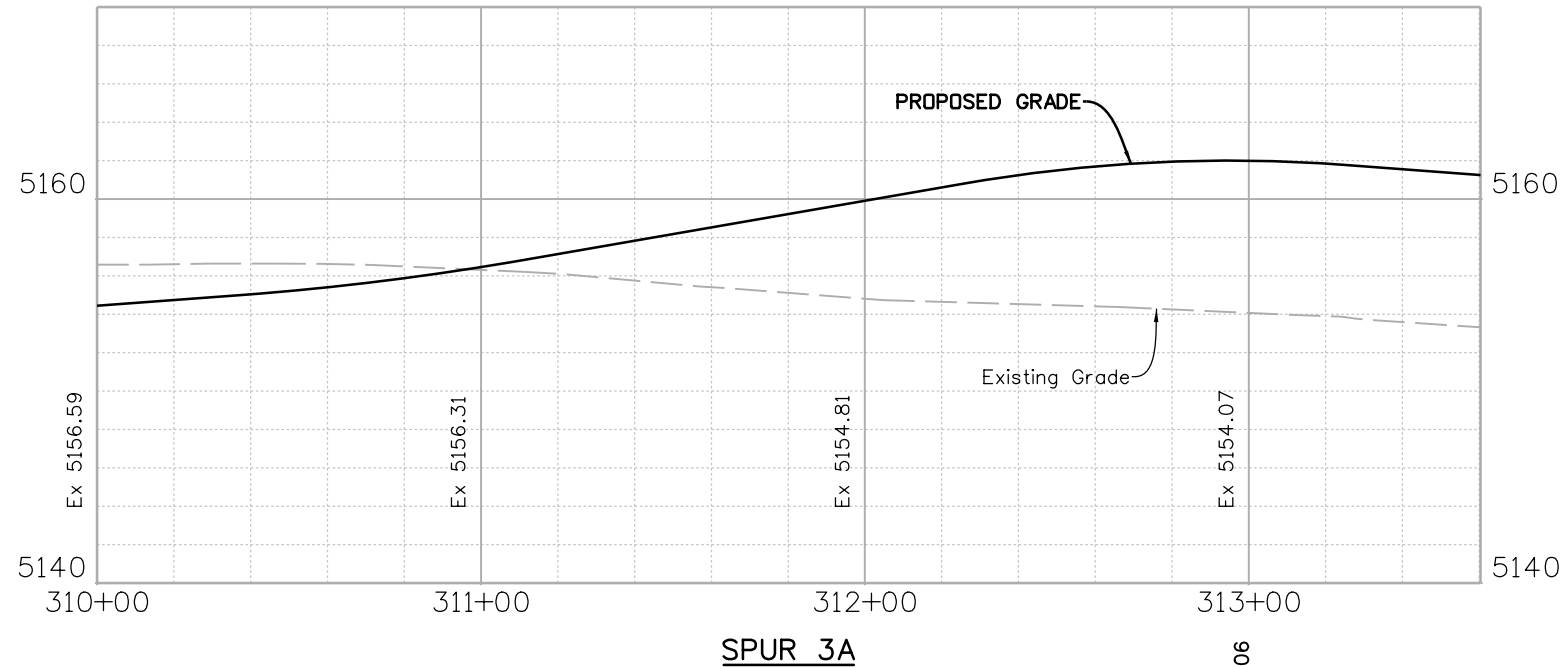
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| As Constructed |
| No Revisions: |
| Revised: |
| Void: |

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| CD 119 BIKEWAY | | | |
| BIKEWAY SPUR 2B & 2C | | | |
| PROFILE | | | |
| Designer: | RML | Structure | |
| Detailer: | PDP | Numbers | |
| Sheet Subset: | PRO | Subset Sheets: | 21 of 25 |

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| Project No./Code |
| |
| Sheet Number |
| 89 |

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| File Name: 421_21015_RD_Bkwy Spur 3AB_Pro.dgn |
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| Unit Information |
| MULLER ENGINEERING COMPANY |

| Sheet Revisions | | |
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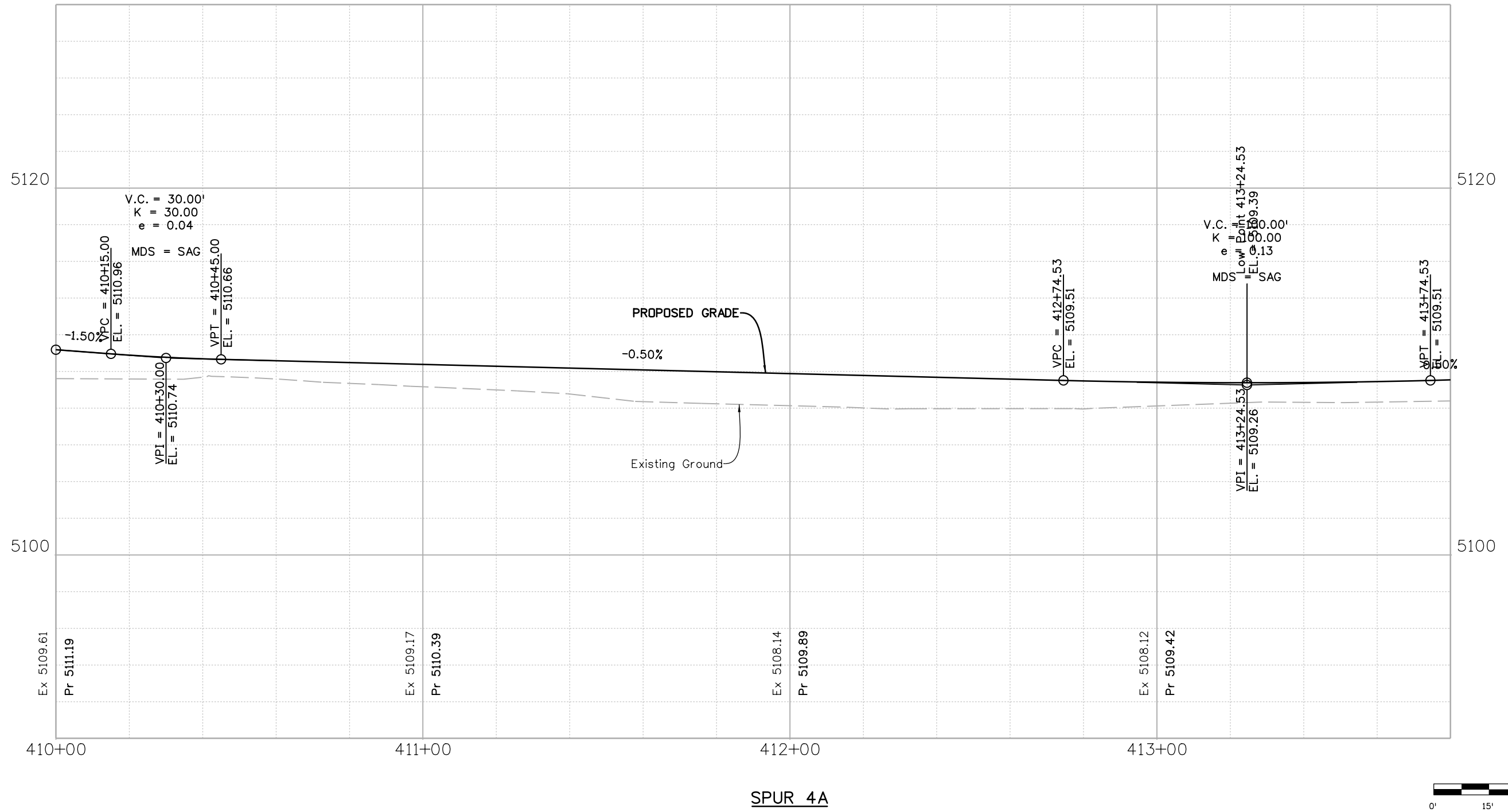


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| Revised: |
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| CD 119 BIKEWAY | | | |
| BIKEWAY SPUR 3A & 3B PROFILE | | | |
| Designer: | RML | Structure | Numbers |
| Detailer: | PDP | Sheet Subsets: | 22 of 25 |
| Sheet Subset: | PRO | | |

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| Project No./Code |
| Sheet Number 90 |

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SPUR 4A

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 File Name: 421_21015_RD_Bkwy Spur 4A_Pro 1.dgn
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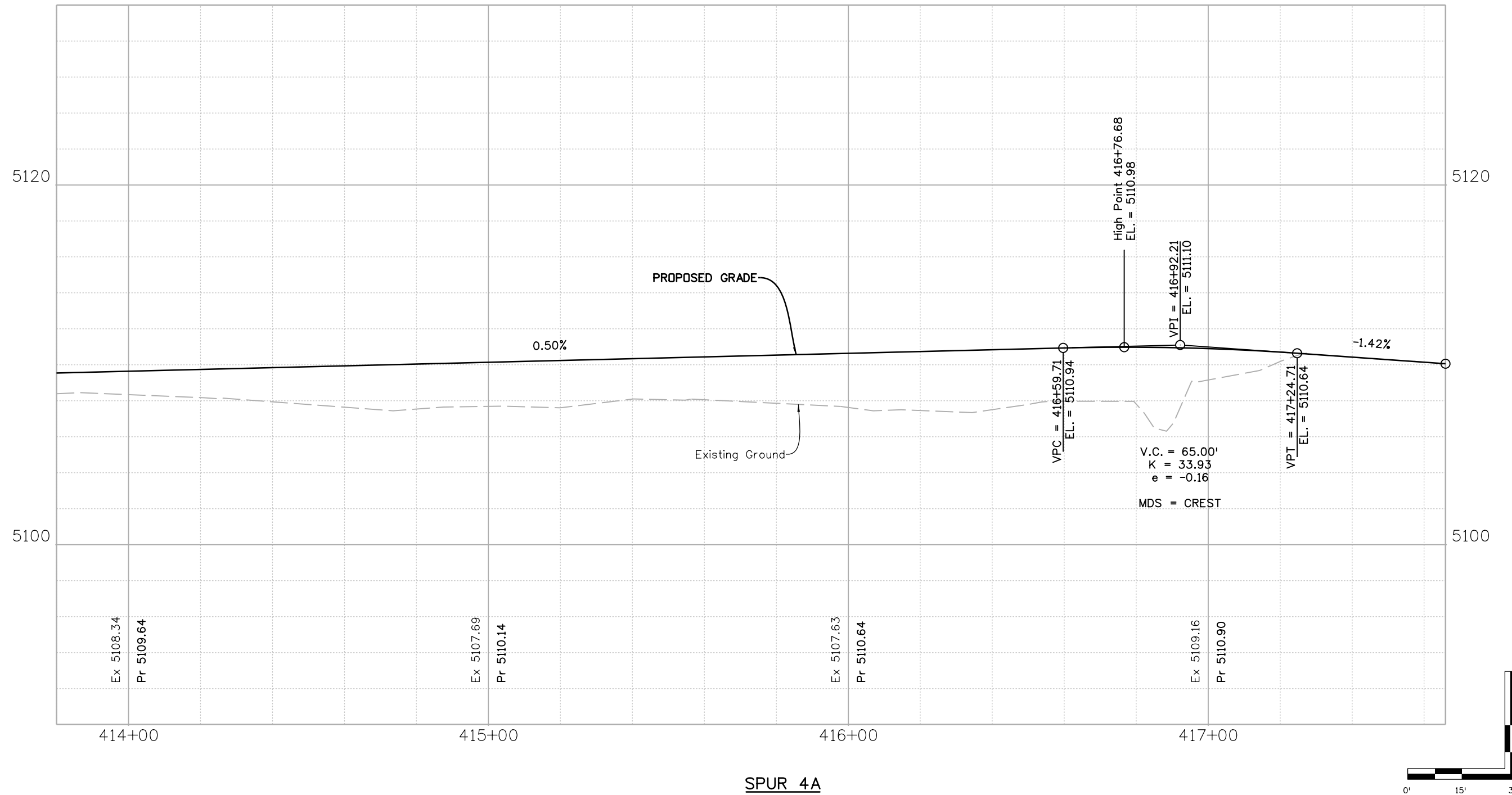
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| No Revisions: |
| Revised: |
| Void: |

CD 119 BIKEWAY
BIKEWAY SPUR 4A - 1
PROFILE

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| Designer: LRN | Structure Numbers |
| Detailer: PDP | |
| Sheet Subset: PRO | Subset Sheets: 23 of 25 |

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| Project No./Code |
| Sheet Number 91 |

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SPUR 4A

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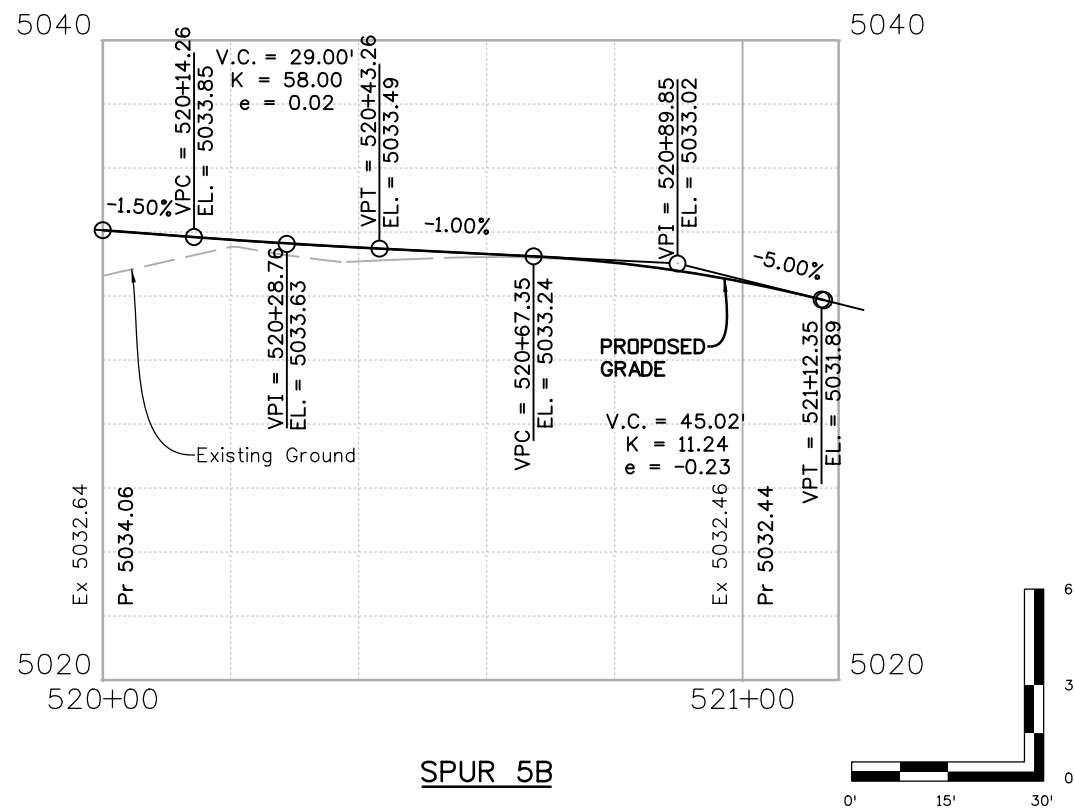


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| CD 119 BIKEWAY | | | |
| BIKEWAY SPUR 4A - 2 | | | |
| PROFILE | | | |
| Designer: | LRN | Structure | |
| Detailer: | PDP | Numbers | |
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| Project No./Code |
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| Sheet Number |
| 92 |

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SPUR 5B

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| Unit Information |
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| Sheet Revisions | | |
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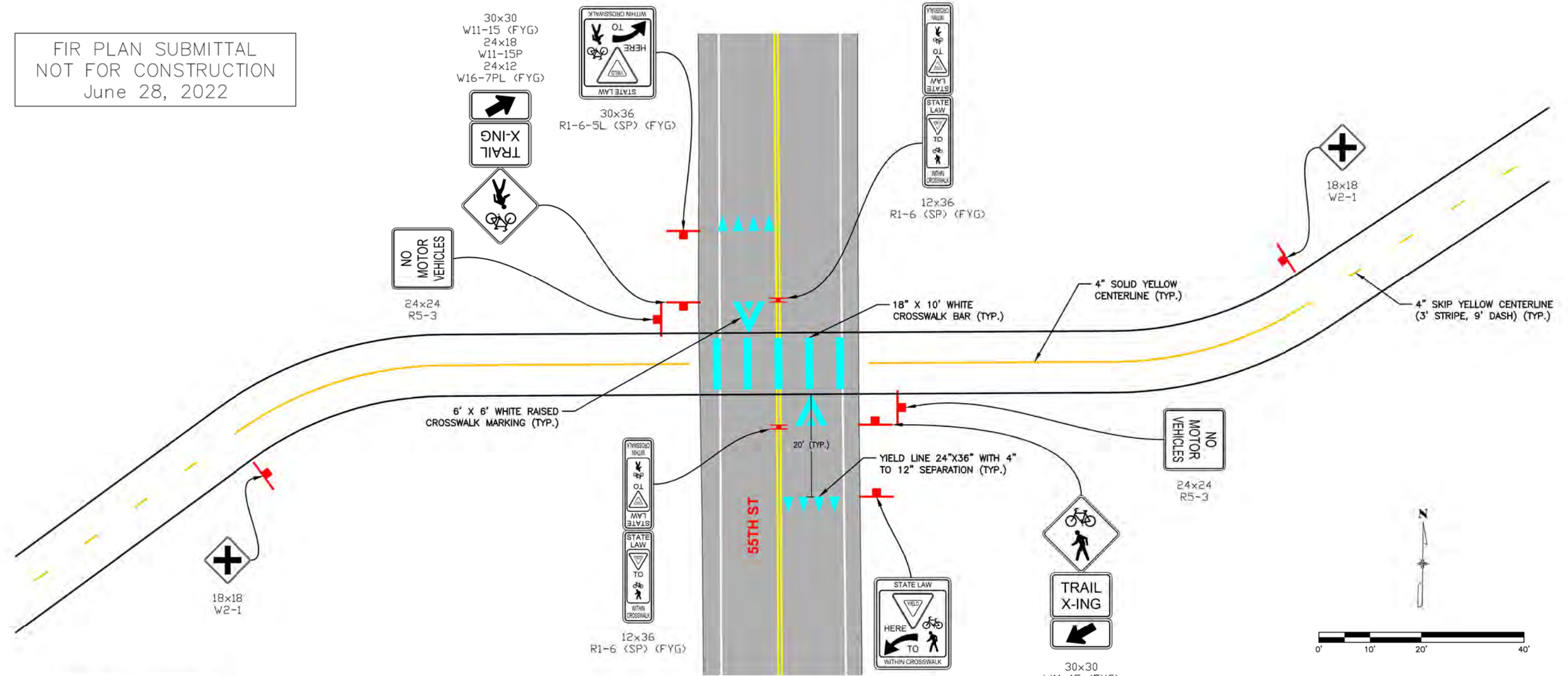


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| As Constructed |
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| Revised: |
| Void: |

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|--------------------------------|-----|-------------------|----------|
| CD 119 BIKEWAY | | | |
| BIKEWAY SPUR 5B PROFILE | | | |
| Designer: | LRN | Structure Numbers | |
| Detailer: | PDP | | |
| Sheet Subset: | PRO | Subset Sheets: | 25 of 25 |

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| Project No./Code |
| |
| Sheet Number |
| 93 |

FIR PLAN SUBMITTAL
NOT FOR CONSTRUCTION
June 28, 2022



LEGEND - SYMBOLS

- EX. WHITE MARKING
- EX. YELLOW MARKING
- PROPOSED WHITE MARKING
- PROPOSED YELLOW MARKING

All seals for this set of drawings are applied to the cover page(s)

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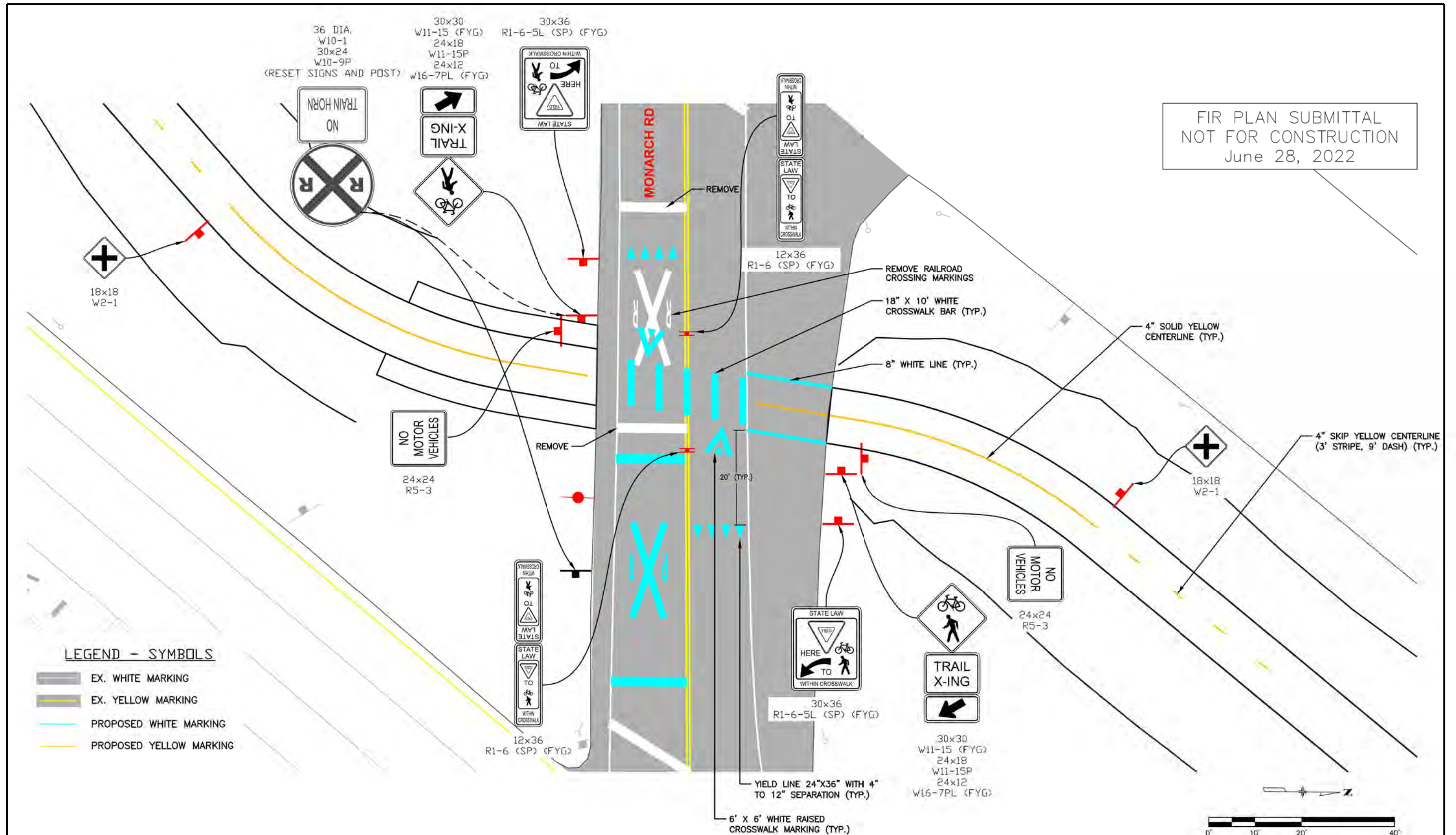
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| CD 119 BIKEWAY | |
| AT-GRADE CROSSING DETAILS | |
| 55TH STREET | |
| Designer: O.V. | Structure Numbers |
| Detailer: O.V. | |
| Sheet Subset: DETAILS | Subset Sheets: 1 of 5 |

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| Project No./Code |
| |
| Sheet Number 94 |

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FIR PLAN SUBMITTAL
NOT FOR CONSTRUCTION
June 28, 2022

LEGEND - SYMBOLS

- EX. WHITE MARKING
- EX. YELLOW MARKING
- PROPOSED WHITE MARKING
- PROPOSED YELLOW MARKING

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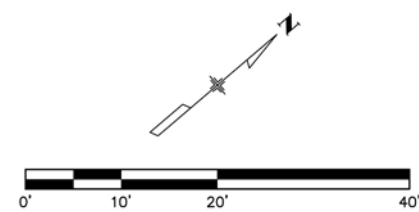
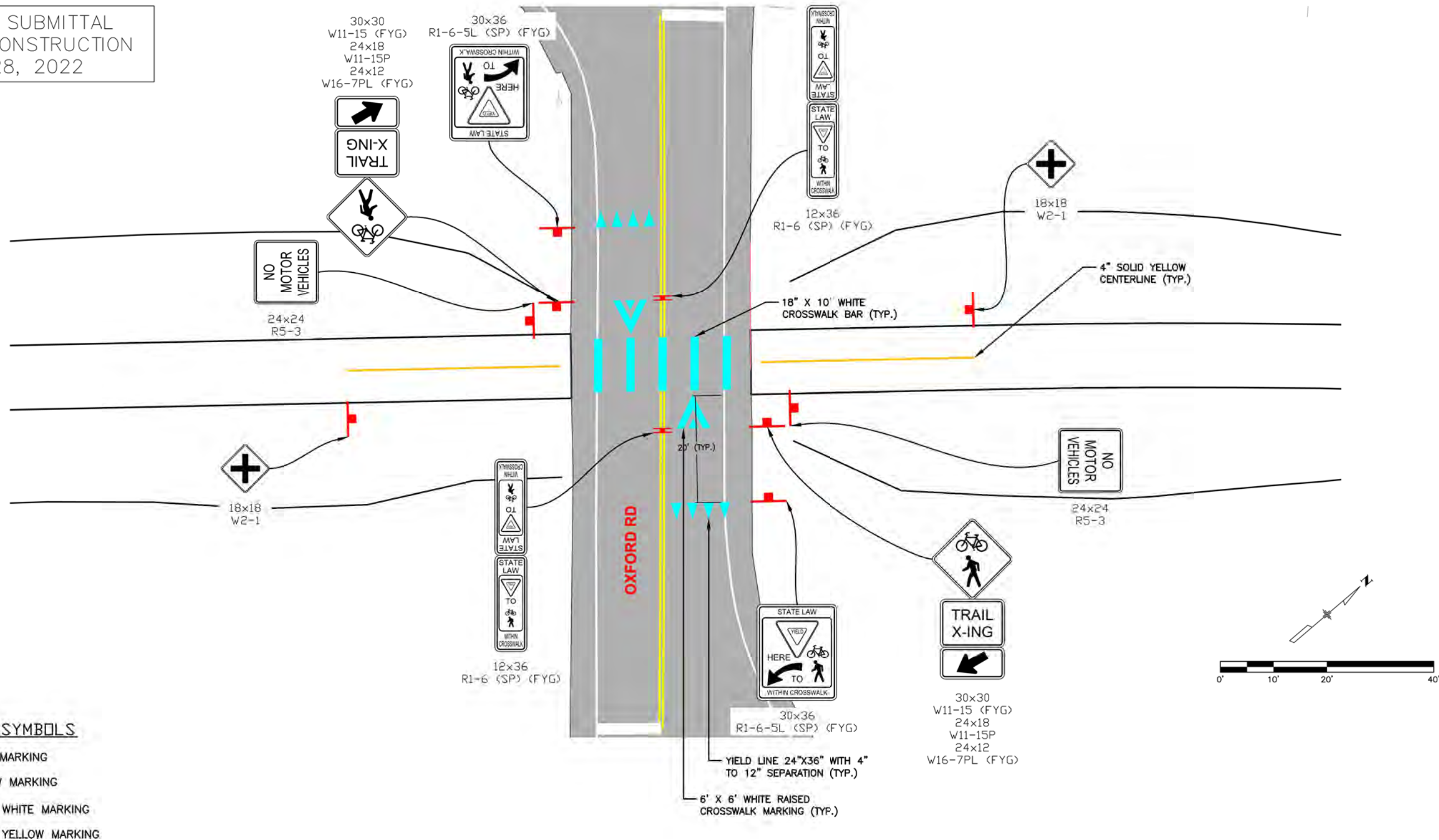


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| CD 119 BIKEWAY | |
| AT-GRADE CROSSING DETAILS MONARCH ROAD | |
| Designer: O.V. | Structure Numbers: |
| Detailer: O.V. | Structure Numbers: |
| Sheet Subset: DETAILS | Subset Sheets: 2 of 5 |

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| Project No./Code |
| Sheet Number 95 |

FIR PLAN SUBMITTAL
NOT FOR CONSTRUCTION
June 28, 2022



LEGEND - SYMBOLS

- EX. WHITE MARKING
- EX. YELLOW MARKING
- PROPOSED WHITE MARKING
- PROPOSED YELLOW MARKING

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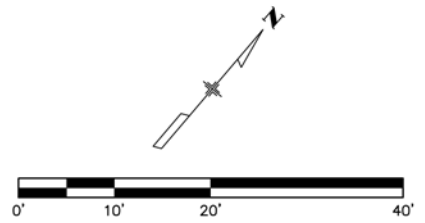
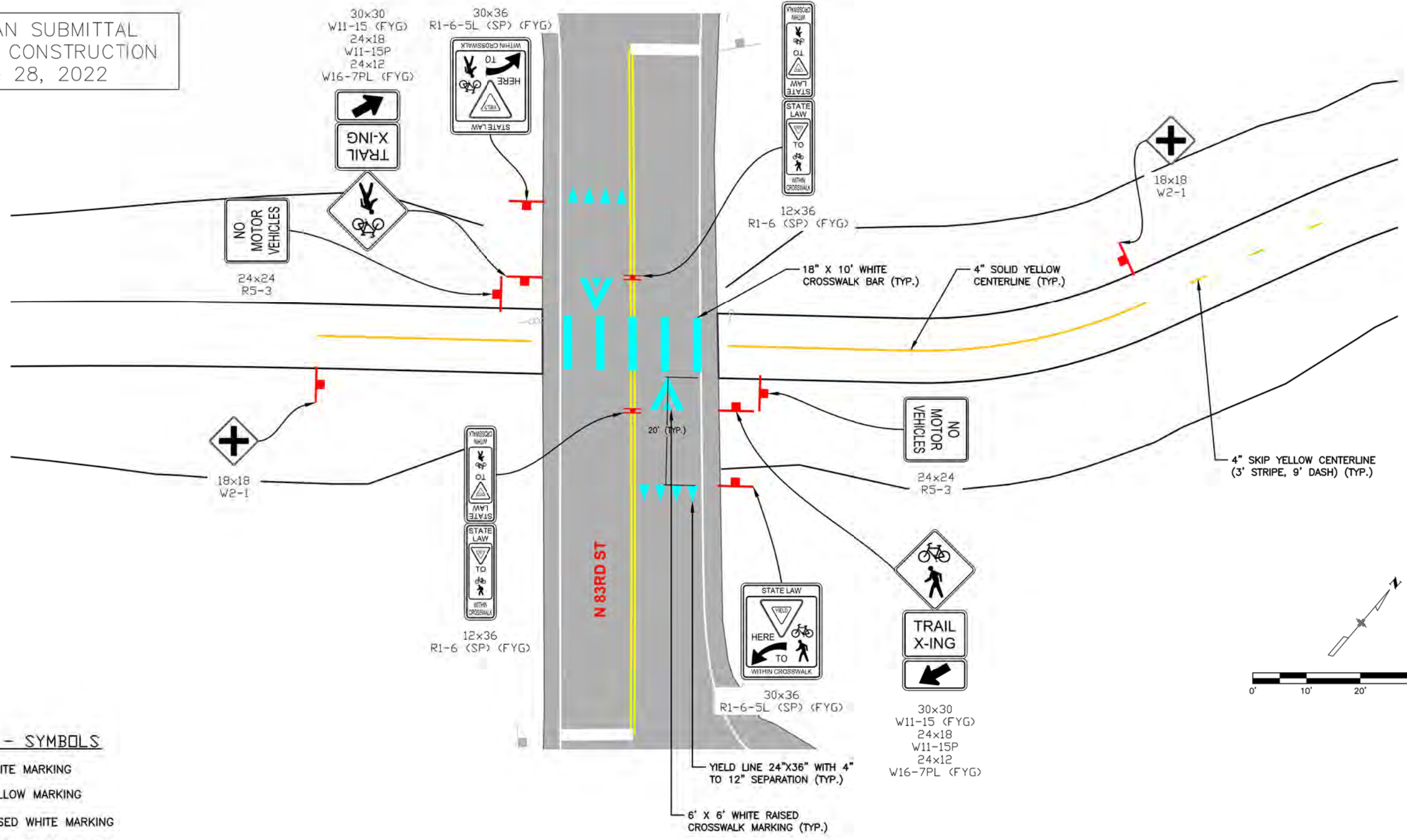
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| CD 119 BIKEWAY AT-GRADE CROSSING DETAILS OXFORD ROAD | | | |
| Designer: | DV | Structure | |
| Detailer: | DV | Numbers | |
| Sheet Subset: | DETAILS | Subset Sheets: | 3 of 5 |

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FIR PLAN SUBMITTAL
NOT FOR CONSTRUCTION
June 28, 2022



LEGEND - SYMBOLS

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| | EX. YELLOW MARKING |
| | PROPOSED WHITE MARKING |
| | PROPOSED YELLOW MARKING |

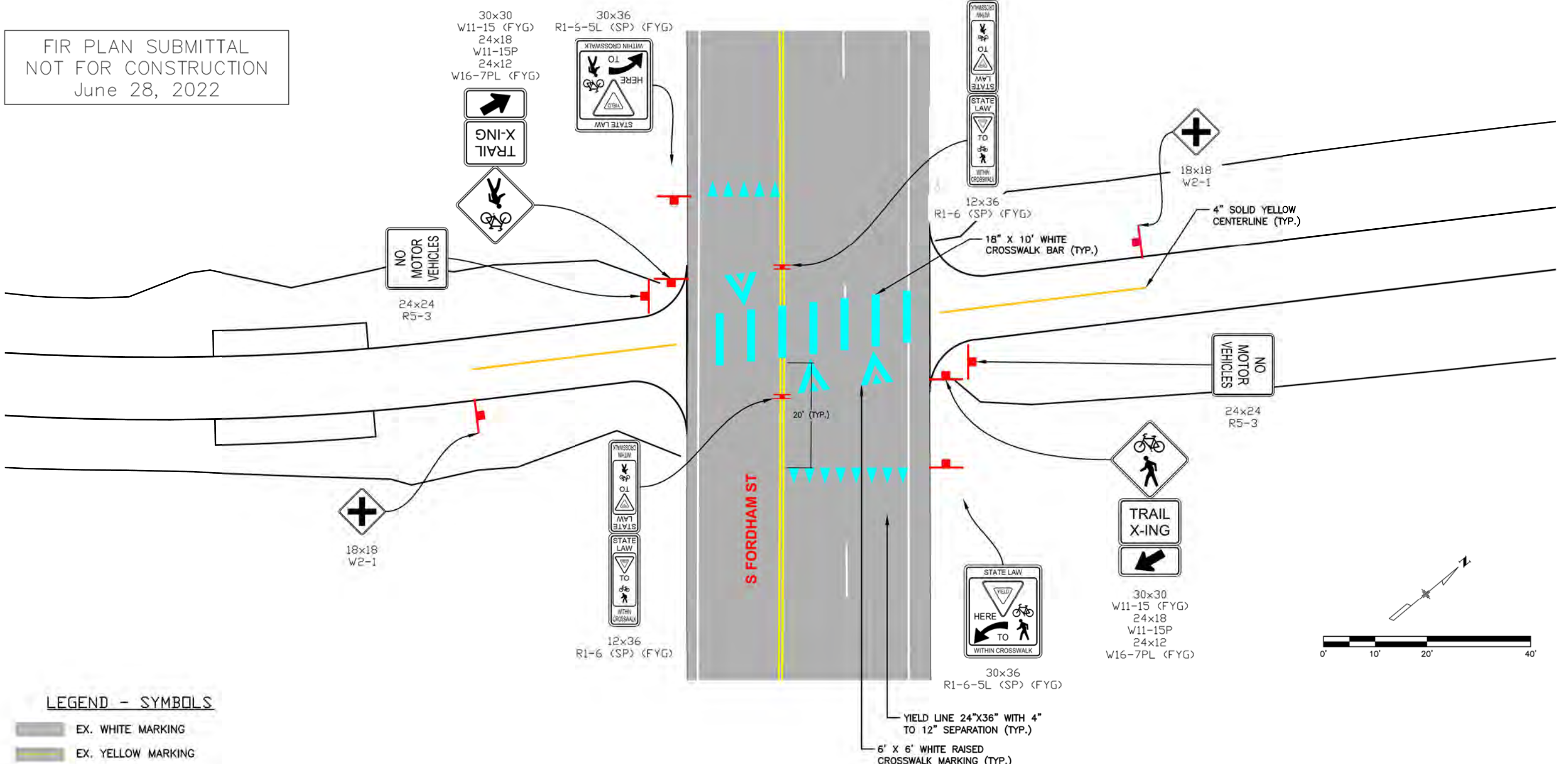
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| Unit Information | Void: | | Detailer: O V | Sheet Subset: DETAILS | Subset Sheets: 4 of 5 | Sheet Number 97 | | | | | | | | | | | | | | | | | | |



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FIR PLAN SUBMITTAL
NOT FOR CONSTRUCTION
June 28, 2022



LEGEND - SYMBOLS

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| | EX. WHITE MARKING |
| | EX. YELLOW MARKING |
| | PROPOSED WHITE MARKING |
| | PROPOSED YELLOW MARKING |

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| CD 119 BIKEWAY | | | |
| AT-GRADE CROSSING DETAILS FORDHAM STREET | | | |
| Designer: | DV | Structure | |
| Detailer: | DV | Numbers | |
| Sheet Subset: | DETAILS | Subset Sheets: | 5 of 5 |

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| Project No./Code |
| Sheet Number 98 |

UTILITY CONTACT LIST

| UTILITY COMPANY | NAME | TELEPHONE | ADDRESS | EMAIL |
|--|-----------------|--------------|---|----------------------------------|
| AT&T | J.T. ANDREWS | 208-841-5093 | 120 9TH AVE. SOUTH, SUITE 140, NAMPA, ID 8368 | JT@CWC64.COM |
| BOULDER COUNTY | TBD | TBD | | |
| BOULDER VALLEY SCHOOL DISTRICT (BVSD) | JUSTIN BAKER | 720-561-5991 | | JUSTIN.BAKER@BVSD.ORG |
| CITY OF BOULDER - FIBER (COB) | PAUL WILLIAMS | 720-417-5816 | 1777 BROADWAY, BOULDER, CO 80302 | WILLIAMSP@BOULDERCOLORADO.GOV |
| CITY OF BOULDER - SANITARY, STORM, WATER (COB) | JOSH MECK | 303-598-5772 | 1777 BROADWAY, BOULDER, CO 80302 | MECKI@BOULDERCOLORADO.GOV |
| CITY OF BOULDER - TRAFFIC (COB) | TRENT FOLLICA | 303-441-3200 | 1777 BROADWAY, BOULDER, CO 80302 | FOLLICAT@BOULDERCOLORADO.GOV |
| CITY OF LONGMONT (COL) | TBD | TBD | | |
| COLORADO DEPARTMENT OF TRANSPORTATION (CDOT) - FIBER | JILL SCOTT | 303-807-7474 | 425 CORPORATE CIR., GOLDEN, CO 80401 | JILL.SCOTT@STATE.CO.US |
| COLORADO DEPARTMENT OF TRANSPORTATION (CDOT) - ELEC, TRAFFIC | DAVID TORREZ | 970-350-2111 | 10601 W 10TH ST., GREELEY, CO 80634 | DAVID.TORREZ@STATE.CO.US |
| COMCAST | SCOTT MOORE | 720-413-0171 | | SCOTT_MOORE@COMCAST.COM |
| JAY ROAD LATERAL DITCH (JRLD) | MICHAEL MOSS | 970-846-6233 | | MICHAEL@KILTFARM.COM |
| LEFT HAND WATER DISTRICT (LHWD) | MARTIN HARDERS | 303-530-4200 | P.O. BOX 210, NIWOT, CO 80544-0210 | MHARDERS@LEFTHANDWATER.ORG |
| LUMEN - LOCAL NETWORK | GARY CRISPE | 303-995-1456 | | GCRISPE@TERRATECHLLC.NET |
| LUMEN - NATIONAL NETWORK (FORMERLY LEVEL3) | TOM LONGAN | 303-482-9822 | | THOMAS.LONGAN@LUMEN.COM |
| MCI/VERIZON | LANE GRADY | 303-827-9756 | 10000 PARK MEADOWS DR, LONE TREE, CO 80124 | LANE.GRADY@VERIZON.COM |
| NEW CENTURY ENERGY | TYLER SWANSON | 303-571-7294 | | TYLER.J.SWANSON@XCELENERGY.COM |
| NEW HINMAN DITCH | DAVE WATSON | 303-441-3850 | | DWATSON@BOULDERCOUNTY.ORG |
| NIWOT SANITATION DISTRICT | DAVID BIANCHINI | 303-652-2525 | 7395 N 95TH ST, LONGMONT, CO 80504 | DBIANCHINI@NIWOTSANITATION.COM |
| NORTHERN WATER | KEVIN WALLER | 970-685-2808 | 220 WATER AVE, BERTHOUD, CO 80513 | KWALLER@NORTHERNWATER.ORG |
| UNITE PRIVATE NETWORKS | KEVIN SHUCARD | 719-313-6826 | | KEVIN.SHUCARD@UPNFIBER.COM |
| WESTERN MIDSTREAM | CLAY YOUNG | 970-598-4246 | | CLAY.YOUNG@WESTERNMIDSTREAM.COM |
| XCEL ENERGY - ELECTRIC AND GAS DISTRIBUTION | LARRY CARBAJAL | 303-245-2320 | | LAWRENCE.CARBAJAL@XCELENERGY.COM |
| XCEL ENERGY - ELECTRIC TRANSMISSION | TYLER SWANSON | 303-571-7294 | | TYLER.J.SWANSON@XCELENERGY.COM |
| XCEL ENERGY - GAS TRANSMISSION | ROB THOMAS | 303-808-8564 | | ROBERT.L.THOMAS@XCELENERGY.COM |
| ZAYO | ERIC BOE | 303-481-6121 | 1805 29TH ST, BOULDER, CO 80301 | ERIC.BOE@ZAYO.COM |

UTILITY LEGEND

QUALITY LEVEL D

| | |
|--|-----------------------------|
| | EXISTING UG ELECTRIC |
| | EXISTING GAS |
| | EXISTING COMMUNICATION |
| | EXISTING COMMUNICATION DUCT |
| | EXISTING WATER |
| | EXISTING SANITARY |
| | EXISTING STORM |
| | EXISTING STORM CULVERT |

QUALITY LEVEL C

| | |
|--|------------------------|
| | EXISTING UG ELECTRIC |
| | EXISTING GAS |
| | EXISTING COMMUNICATION |
| | EXISTING WATER |
| | EXISTING SANITARY |
| | EXISTING STORM |

SURVEY/ABOVE GROUND SURFACE FEATURES

| | |
|--|---------------------------------|
| | EXISTING COMMUNICATION VAULT |
| | EXISTING COMMUNICATION MH |
| | EXISTING COMMUNICATION BOX |
| | EXISTING FIBER HANDHOLE |
| | EXISTING TELEPHONE RISER |
| | EXISTING TELEPHONE JUNCTION BOX |
| | EXISTING SANITARY MH |
| | EXISTING STORM MH |
| | EXISTING STORM INLET |
| | EXISTING FES |
| | EXISTING POLE |
| | EXISTING PULL BOX |
| | EXISTING ELECTRIC MANHOLE |
| | EXISTING ELECTRIC PEDESTAL |
| | EXISTING ELECTRIC TRANSFORMER |
| | EXISTING HYDRANT |
| | EXISTING VALVE |
| | EXISTING WATER MH |
| | EXISTING STREET LIGHT |
| | EXISTING WATER METER |
| | EXISTING DH ELECTRIC |
| | EXISTING DH TELEPHONE |

PROPOSED

| | |
|--|------------------------|
| | PROPOSED STORM |
| | PROPOSED STORM INLET |
| | PROPOSED STORM MANHOLE |



Know what's below.
Call before you dig.

GENERAL UTILITY NOTES

1. THE CONTRACTOR'S ATTENTION IS DIRECTED TO SUBSECTION 105.11 OF THE STANDARD SPECIFICATIONS AND THE UTILITY PROJECT SPECIAL PROVISIONS CONCERNING UTILITIES. THE CONTRACTOR SHALL COMPLY WITH ARTICLE 1.5 OF TITLE 9, CRS ("EXCAVATION REQUIREMENT") WHEN EXCAVATING OR GRADING IS PLANNED IN THE AREA OF UNDERGROUND UTILITIES.
2. UTILITIES ARE DEPICTED ON THESE PLANS IN ACCORDANCE WITH THEIR ACHIEVED QUALITY LEVEL AS DEFINED IN THE AMERICAN SOCIETY OF CIVIL ENGINEER'S DOCUMENT ASCE 38 "STANDARD GUIDELINE FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA." RELIANCE UPON THIS DATA FOR RISK MANAGEMENT PURPOSES DURING BIDDING DOES NOT RELIEVE THE EXCAVATOR OR UTILITY OWNER FROM FOLLOWING ALL APPLICABLE UTILITY DAMAGE PREVENTION STATUTES, POLICIES, AND/OR PROCEDURES DURING CONSTRUCTION.
3. THE CONTRACTOR SHALL COMPLY WITH ARTICLE 1.5 OF TITLE 9, CRS ("EXCAVATION REQUIREMENTS") WHEN EXCAVATING OR GRADING IS PLANNED IN THE AREA OF UNDERGROUND UTILITY FACILITIES. THE CONTRACTOR SHALL NOTIFY ALL AFFECTED UTILITIES AT LEAST TWO (2) BUSINESS DAYS, NOT INCLUDING ACTUAL DAY OF NOTICE, PRIOR TO COMMENCING SUCH OPERATIONS. THE CONTRACTOR SHALL CONTACT COLORADO 811 TO HAVE LOCATIONS OF UNDERGROUND UTILITIES MARKED BY ALL UNDERGROUND COMPANIES. UTILITY SERVICE LATERALS SHALL ALSO BE LOCATED PRIOR TO BEGINNING EXCAVATION OR GRADING.
4. LOCATING EXISTING UTILITIES WILL BE PAID FOR AS POT-HOLING. USE OF THE TERM "POT-HOLING" SHALL NOT BE CONSTRUED TO IMPLY ANY PARTICULAR METHOD OF PROSPECTING. IT IS ESTIMATED THAT XX HOURS OF ITEM 203-01597 POT-HOLING WILL BE NEEDED AS PART OF THIS PROJECT. POT-HOLING OF AN AREA SHALL TAKE PLACE AT LEAST 10 DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION OPERATIONS IN THAT AREA. HOURS APPROVED FOR PAYMENT UNDER THIS PAY ITEM SHALL BE AT THE DISCRETION OF THE ENGINEER.
5. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES AS NECESSARY TO ENSURE THAT THE UTILITIES WILL NOT BE IMPACTED BY CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY OWNERS TO BE ONSITE DURING POT-HOLING. IF EXISTING UTILITIES ARE WITHIN CLOSE PROXIMITY HORIZONTALLY OR VERTICALLY TO PROPOSED INSTALLATIONS, THE CONTRACTOR SHALL CONTACT THE ENGINEER. ANY EXISTING UTILITY, WHICH IS TO REMAIN BUT IS DAMAGED AS A RESULT OF THE CONTRACTORS OPERATIONS, SHALL BE REPLACED AT THE CONTRACTORS EXPENSE.
6. THE CONTRACTOR SHALL HAVE A MANDATORY PRE-CONSTRUCTION UTILITY MEETING PRIOR TO EACH SUGGESTED CONSTRUCTION PHASE WITH THE UTILITY OWNERS IMPACTED TO DISCUSS AND COORDINATE SCHEDULES AND TRAFFIC CONTROL OF THE PROPOSED UTILITY RELOCATIONS BY THE CONTRACTOR AND BY THE UTILITY OWNER. THE CONTRACTOR SHALL PROVIDE NOTICE OF THE PRE-CONSTRUCTION MEETING TO THE UTILITY OWNERS IN WRITING 3 WEEKS PRIOR TO EACH UTILITY WORK ELEMENT.
7. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH IMPACTED UTILITIES TO ASSURE THE TIMELY RELOCATION OF THEIR FACILITIES. THIS COORDINATION SHALL INCLUDE ANTICIPATED IMPACTED UTILITIES AND UNFORESEEN IMPACTED UTILITIES. THE UTILITY WORK SHALL BE INCLUDED IN THE CONTRACTOR'S CPM SCHEDULE.
8. ALL EXCAVATIONS FOR UTILITY LINES, CULVERTS, TRENCHES OR TUNNELS SHALL MEET THE REQUIREMENTS OF DSHA OR CDOT, WHICHEVER APPLIES.
9. QUALITY LEVELS DEPICTED ON THESE PLANS ARE BASED IN PART ON AN INVESTIGATION CONDUCTED BY HDR ENGINEERING. REFER TO SUE PLANS AND REPORT FOR MORE INFORMATION.

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 File Name: 299_21015_UT_Coversheet.dgn
 Horiz. Scale: 1"=500' Vert. Scale: As Noted
 Unit Information
GOODBEE
 & ASSOCIATES, INC.

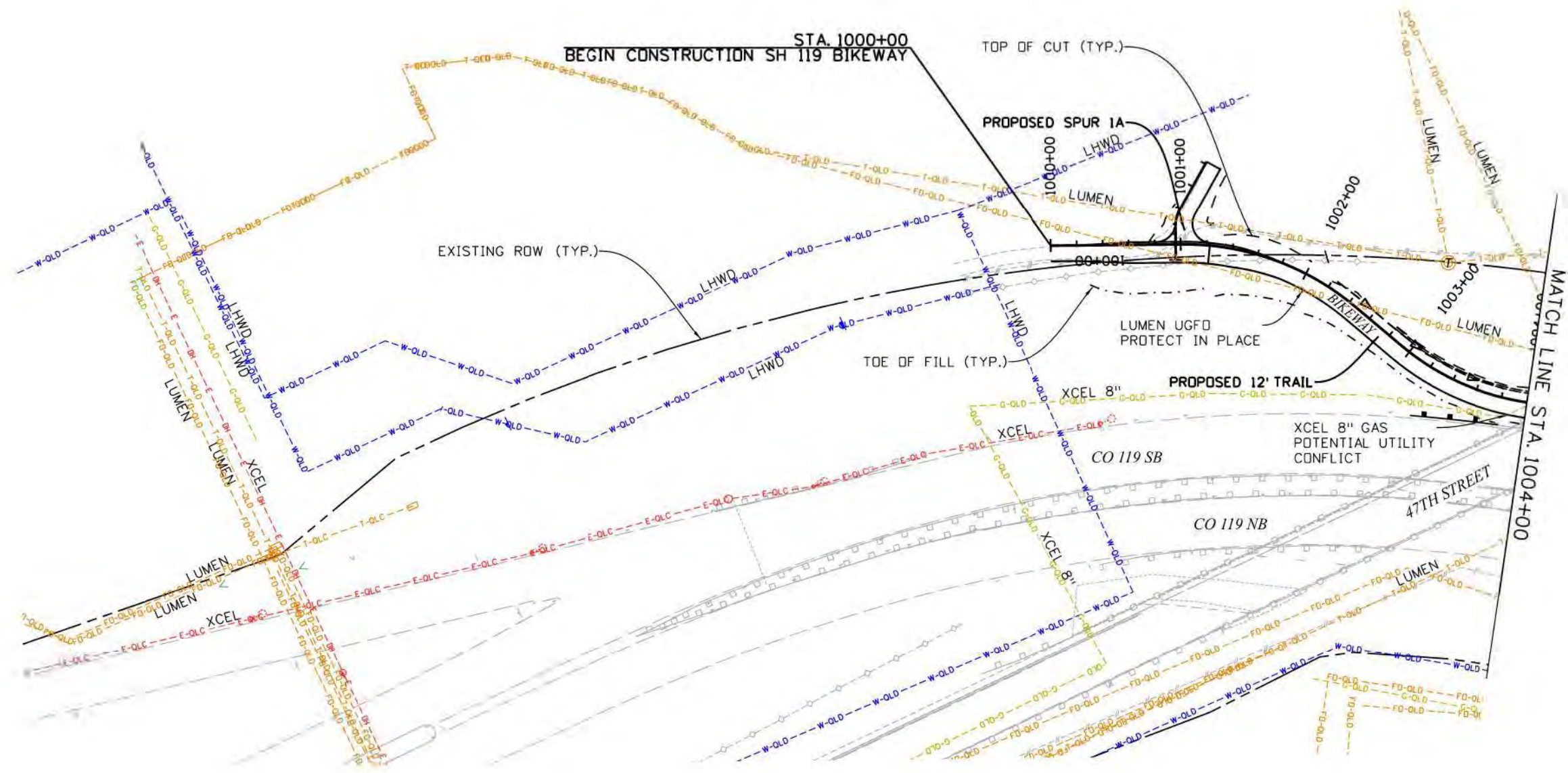
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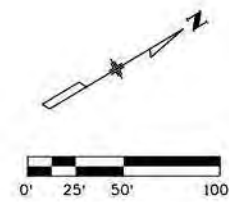
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| Sheet Number | 99 |



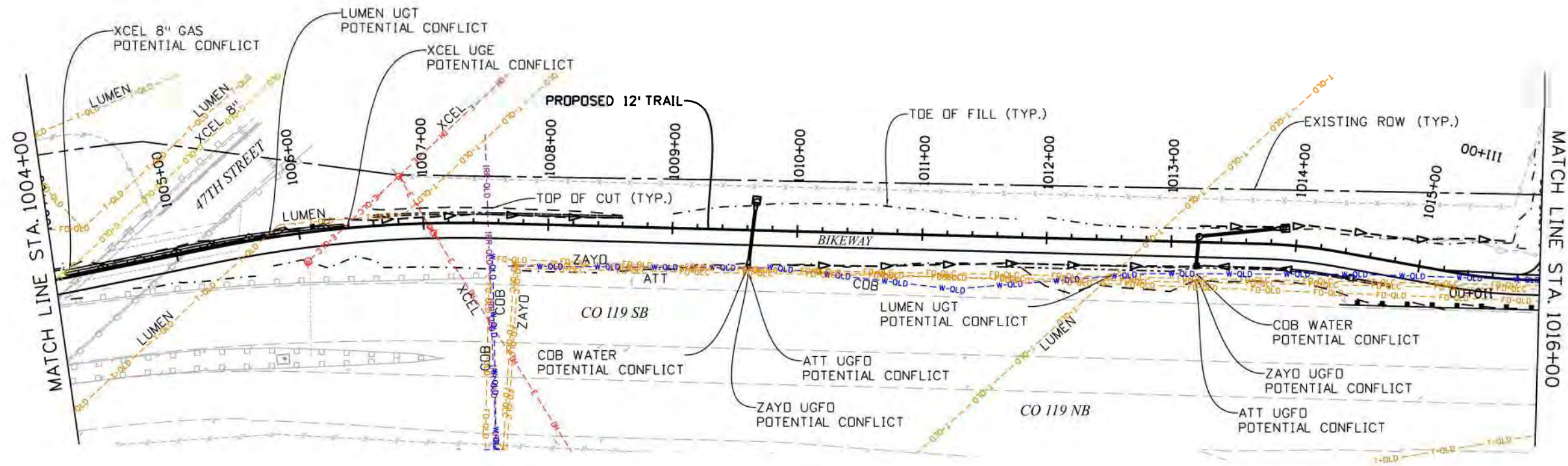
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1. SEE DRAINAGE PLAN AND PROFILE SHEETS FOR DRAINAGE DESIGN AND DETAILS.
2. SEE BIKEWAY PLANS FOR BIKEWAY DETAILS.



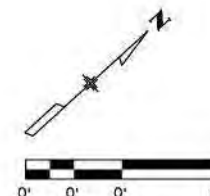
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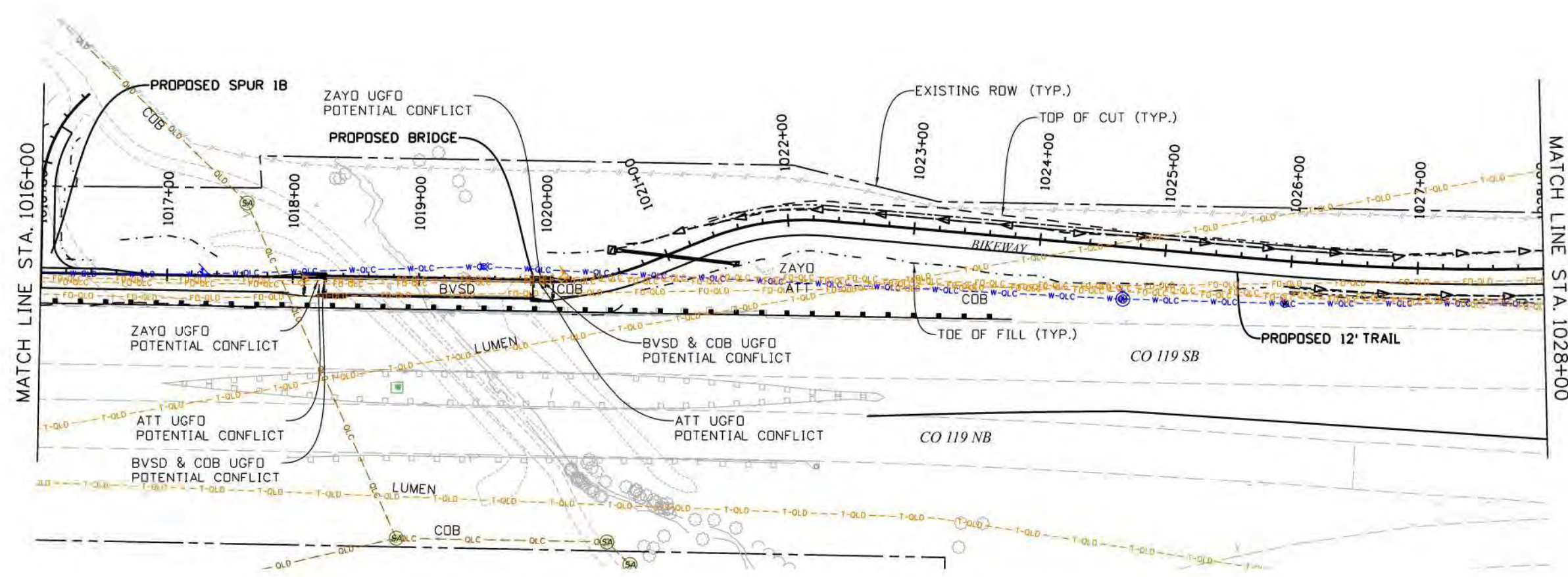
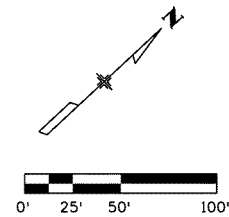
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1. SEE DRAINAGE PLAN AND PROFILE SHEETS FOR DRAINAGE DESIGN AND DETAILS.
2. SEE BIKEWAY PLANS FOR BIKEWAY DETAILS.



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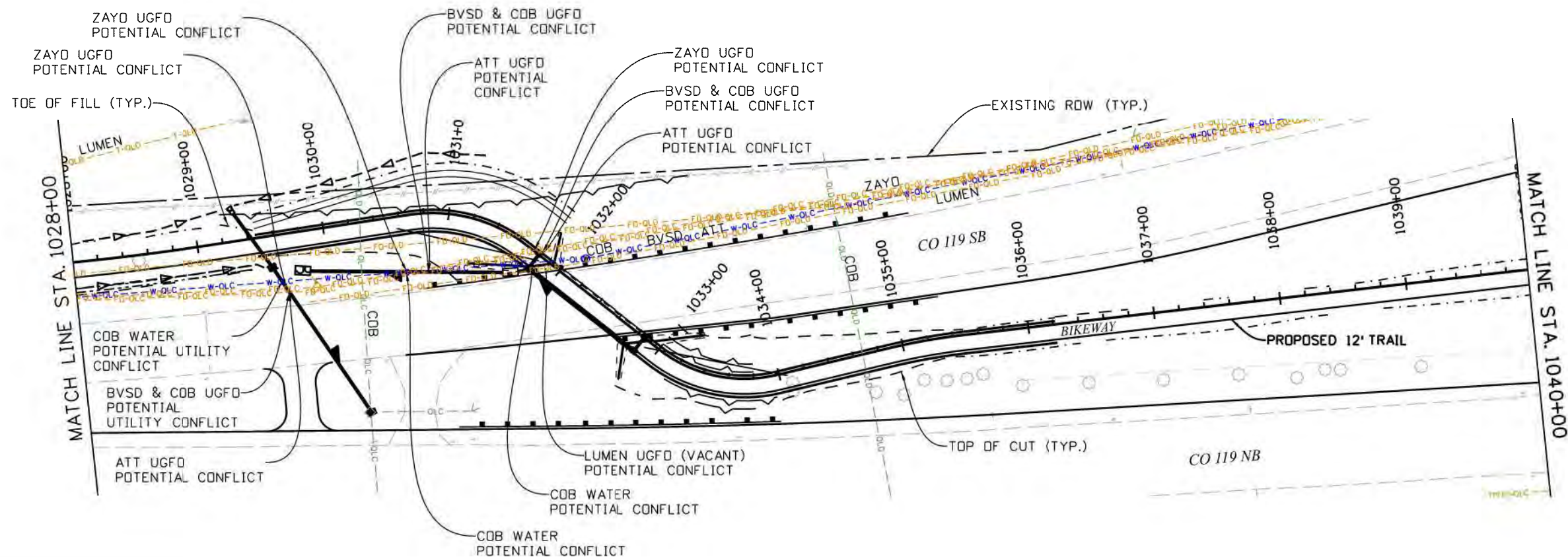
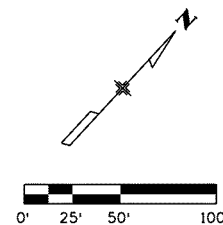
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1. SEE DRAINAGE PLAN AND PROFILE SHEETS FOR DRAINAGE DESIGN AND DETAILS.
2. SEE BIKEWAY PLANS FOR BIKEWAY DETAILS.



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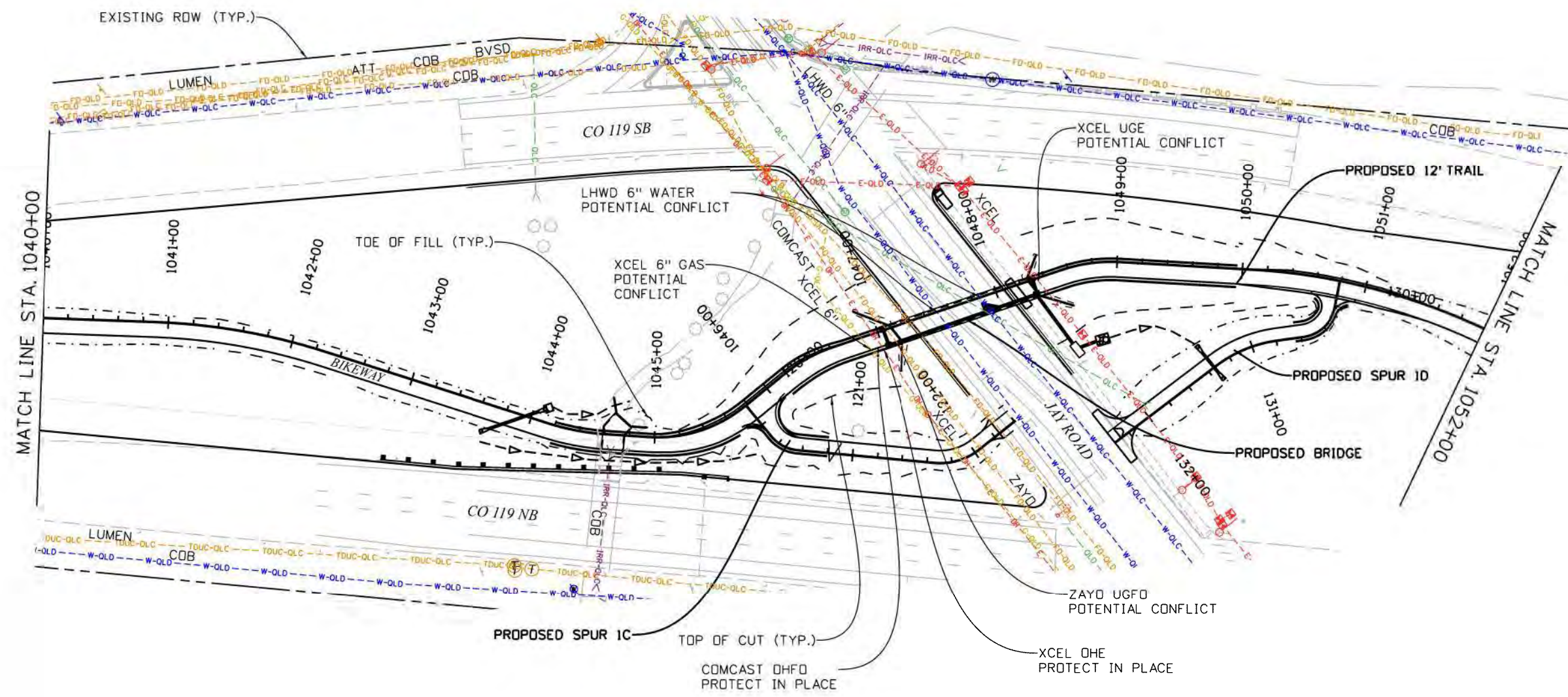
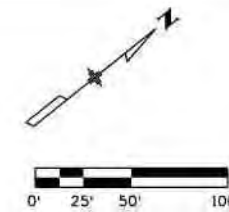
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2. SEE BIKEWAY PLANS FOR BIKEWAY DETAILS.



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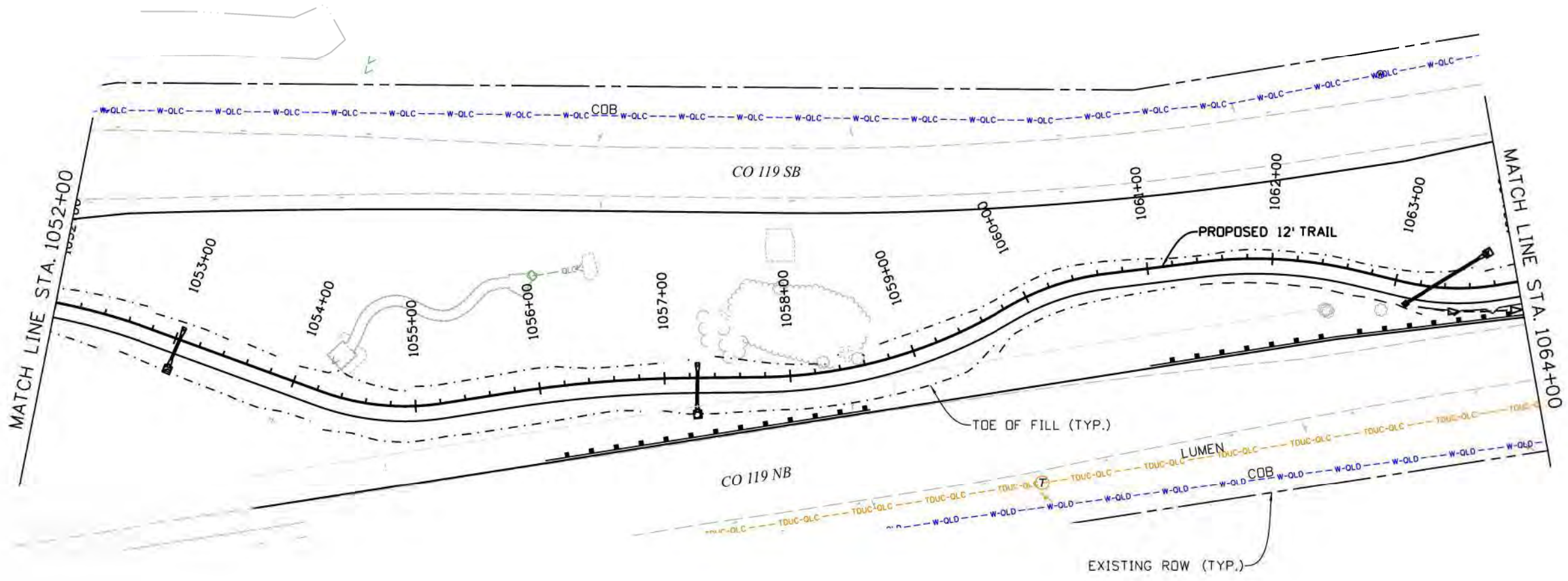


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1. SEE DRAINAGE PLAN AND PROFILE SHEETS FOR DRAINAGE DESIGN AND DETAILS.
2. SEE BIKEWAY PLANS FOR BIKEWAY DETAILS.

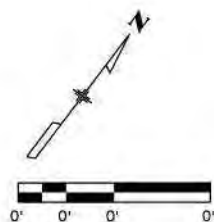


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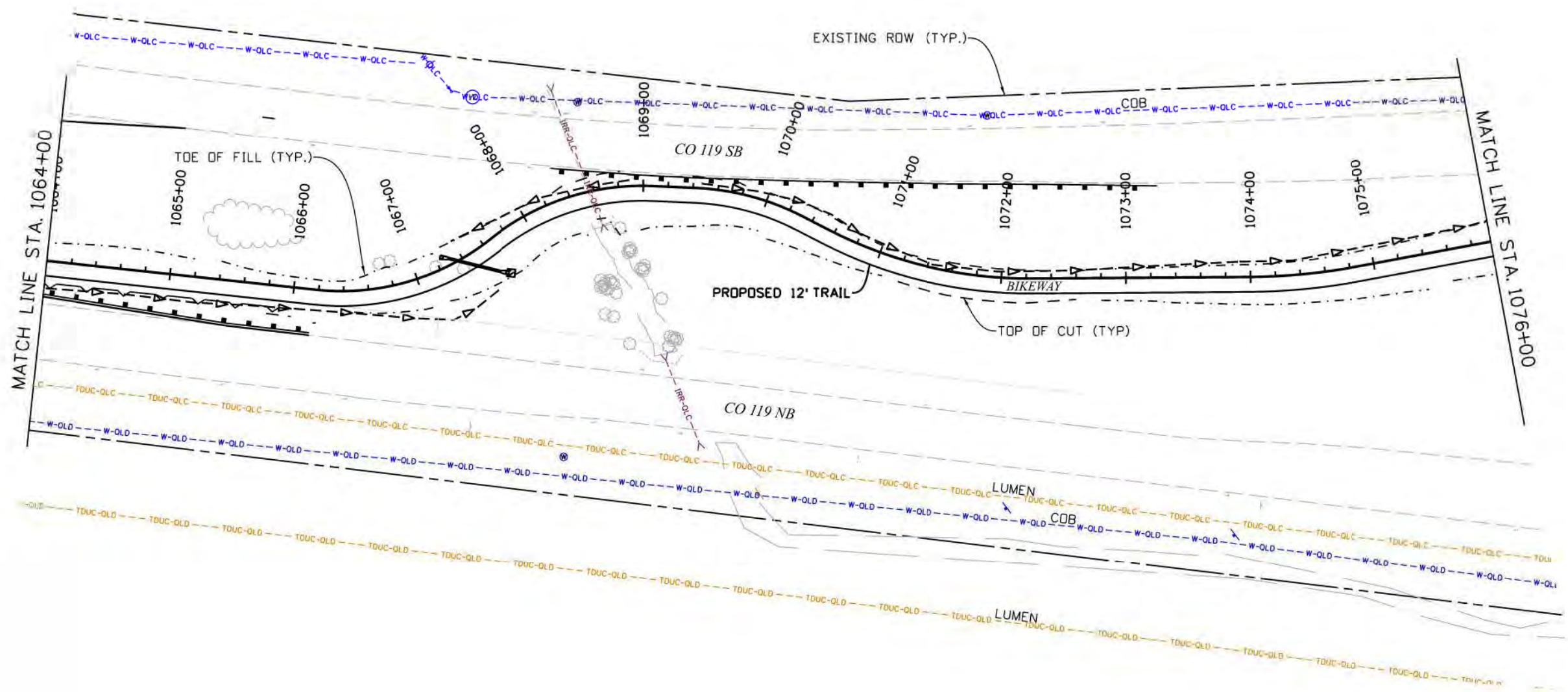
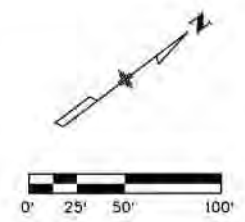
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2. SEE BIKEWAY PLANS FOR BIKEWAY DETAILS.



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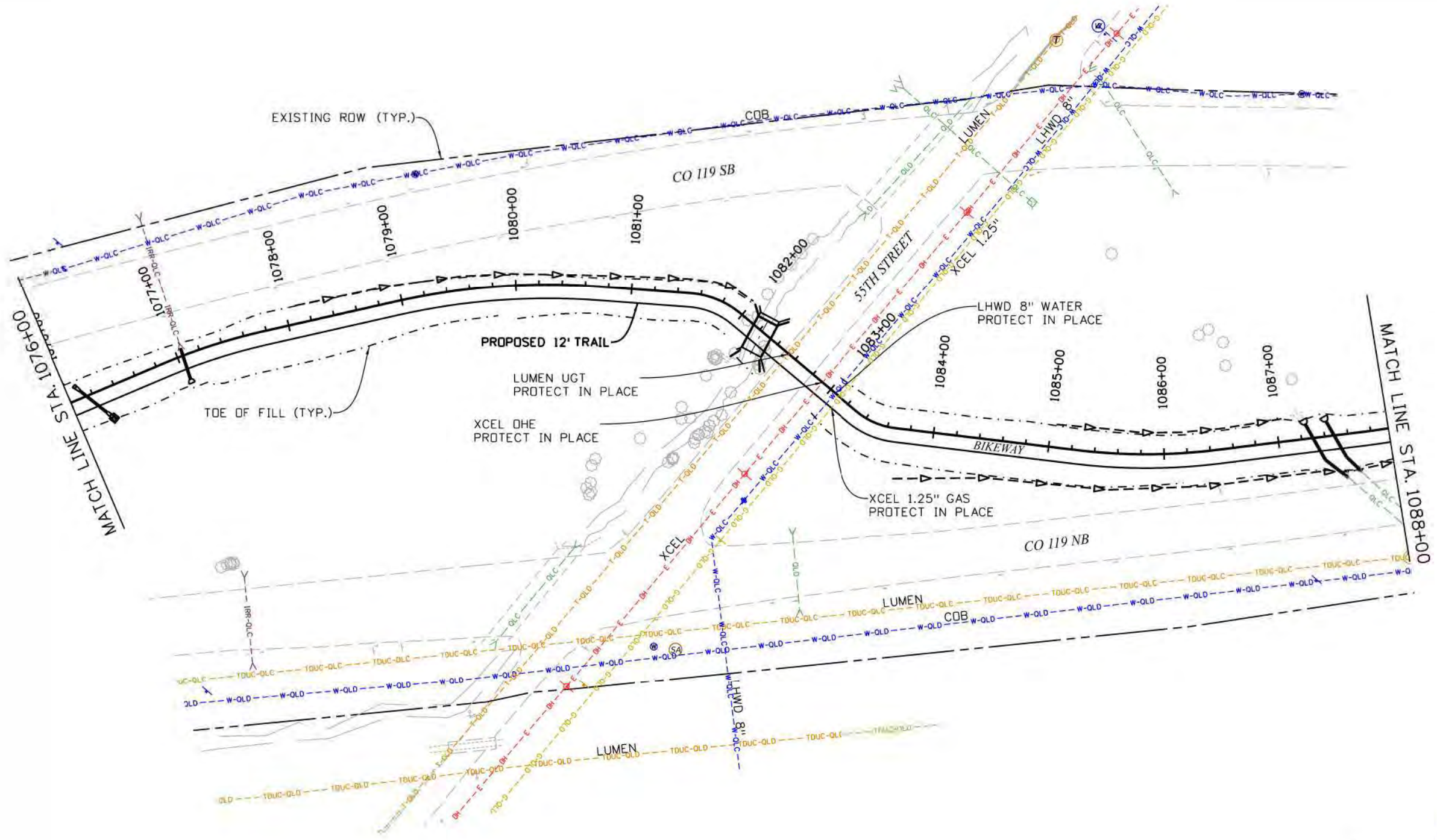
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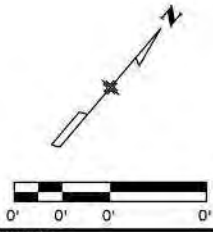
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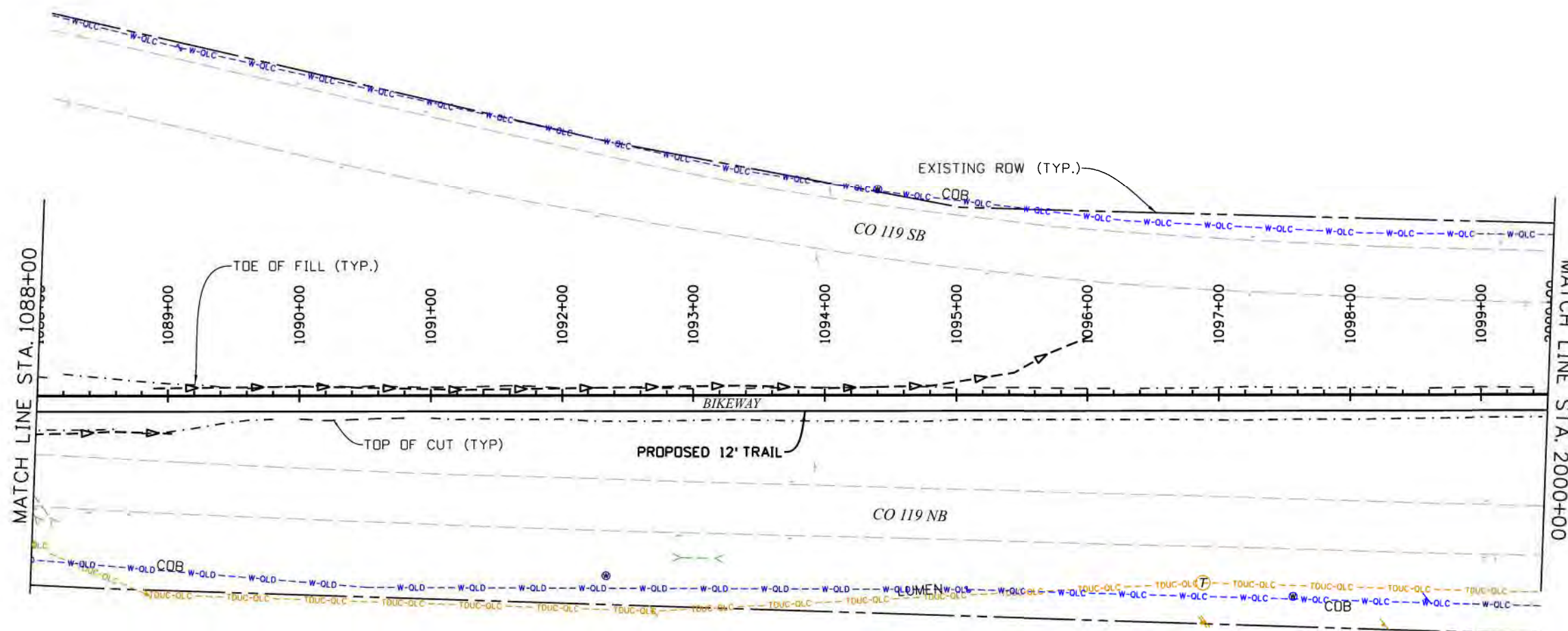
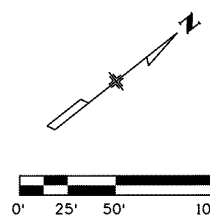


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1. SEE DRAINAGE PLAN AND PROFILE SHEETS FOR DRAINAGE DESIGN AND DETAILS.
2. SEE BIKEWAY PLANS FOR BIKEWAY DETAILS.



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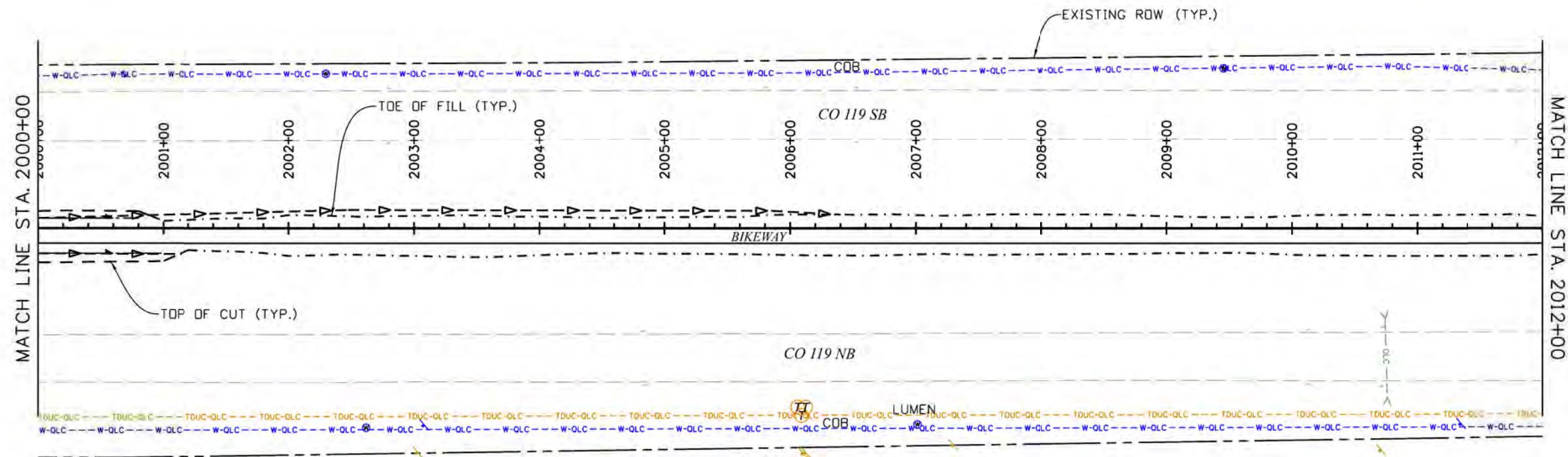
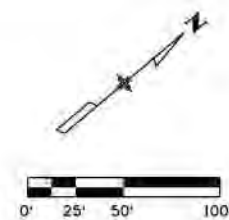
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2. SEE BIKEWAY PLANS FOR BIKEWAY DETAILS.



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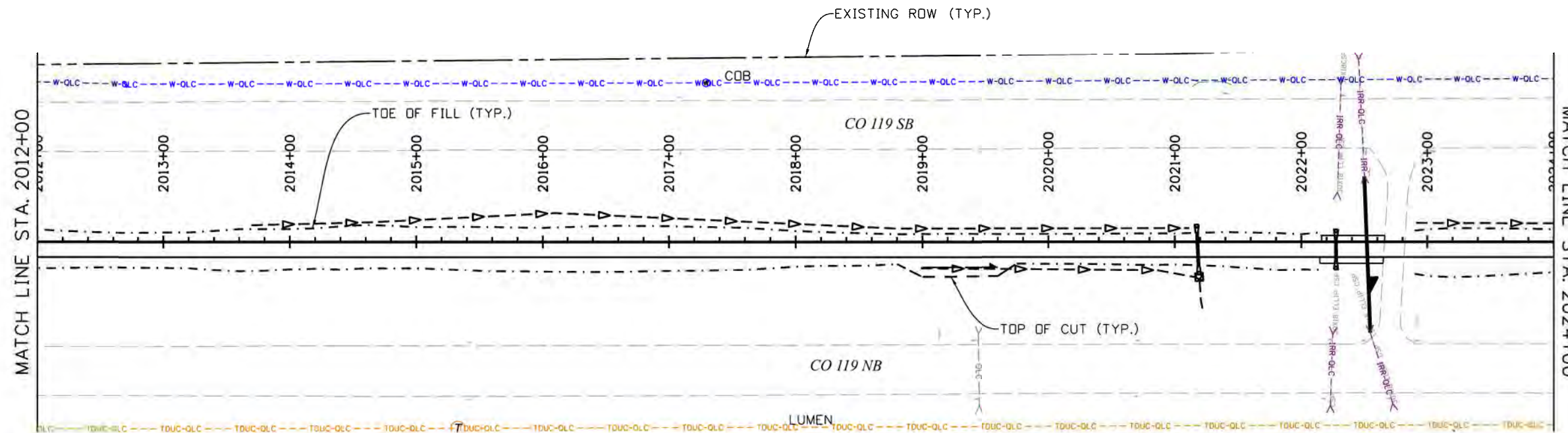
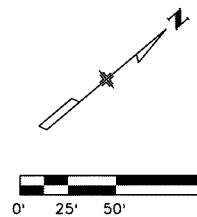
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1. SEE DRAINAGE PLAN AND PROFILE SHEETS FOR DRAINAGE DESIGN AND DETAILS.
2. SEE BIKEWAY PLANS FOR BIKEWAY DETAILS.



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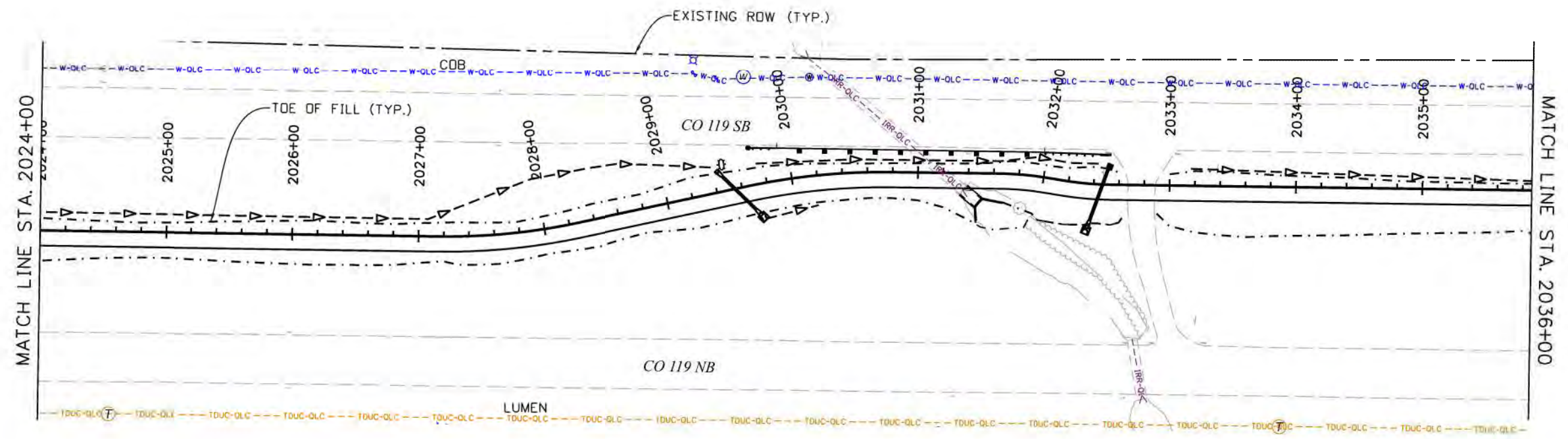
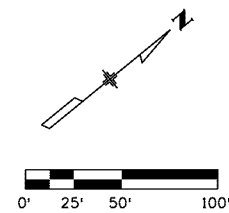
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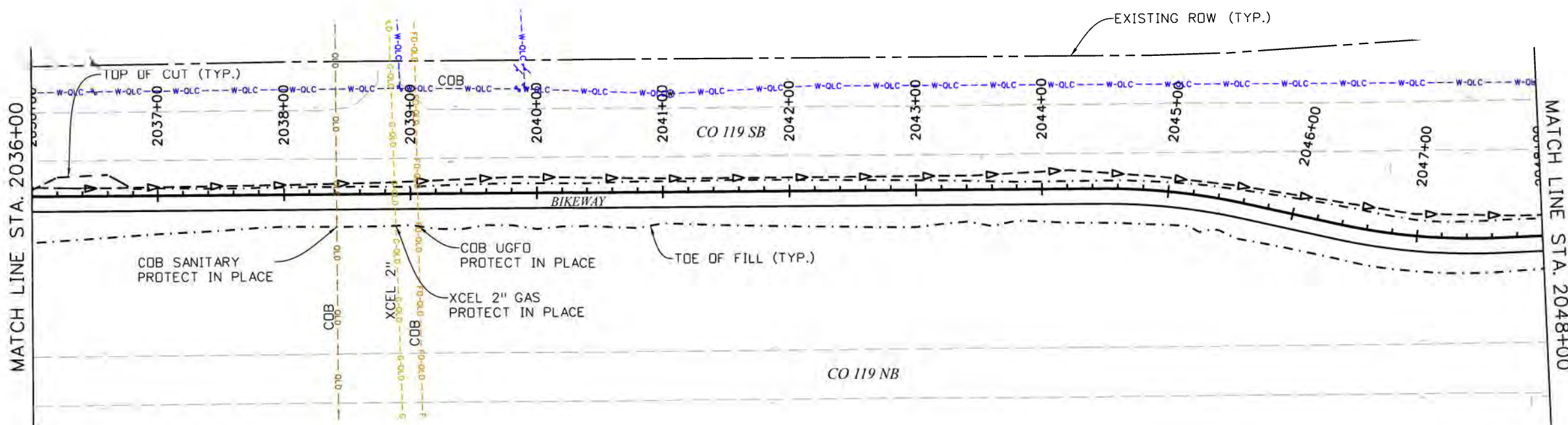
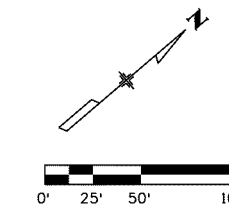


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1. SEE DRAINAGE PLAN AND PROFILE SHEETS FOR DRAINAGE DESIGN AND DETAILS.
2. SEE BIKEWAY PLANS FOR BIKEWAY DETAILS.



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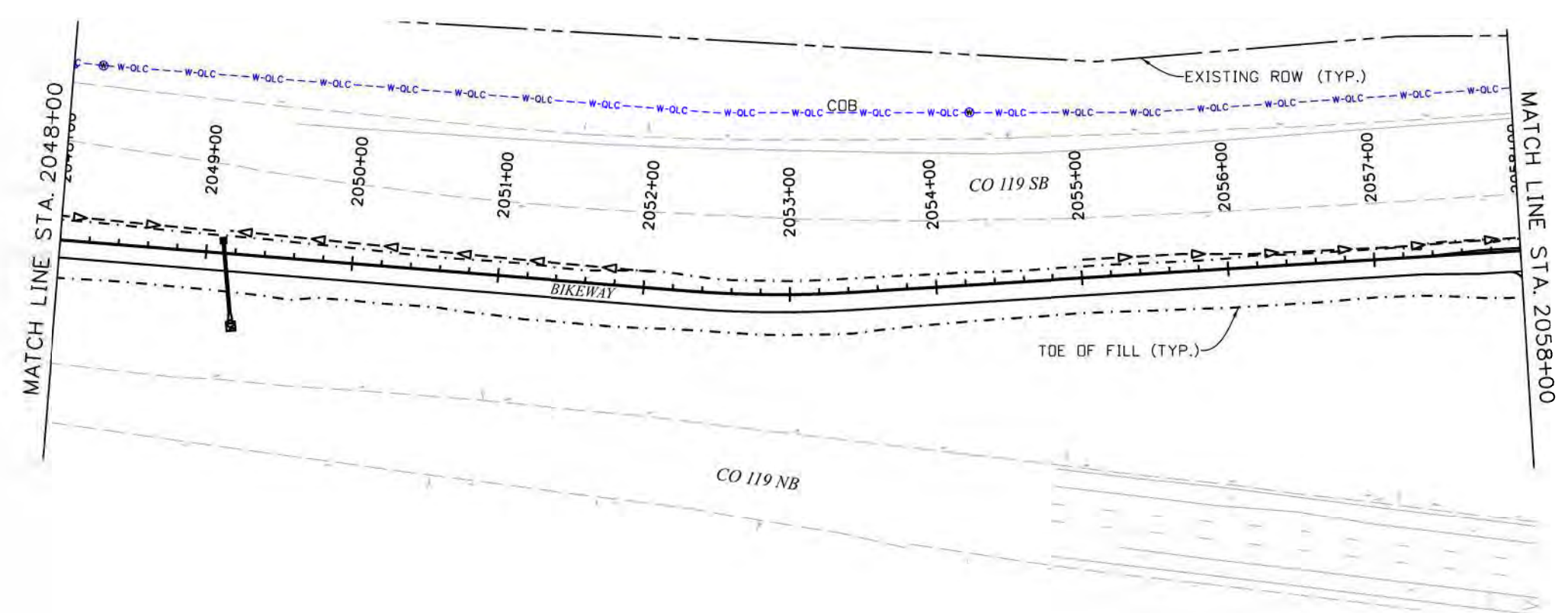
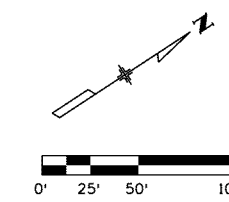
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NOTES

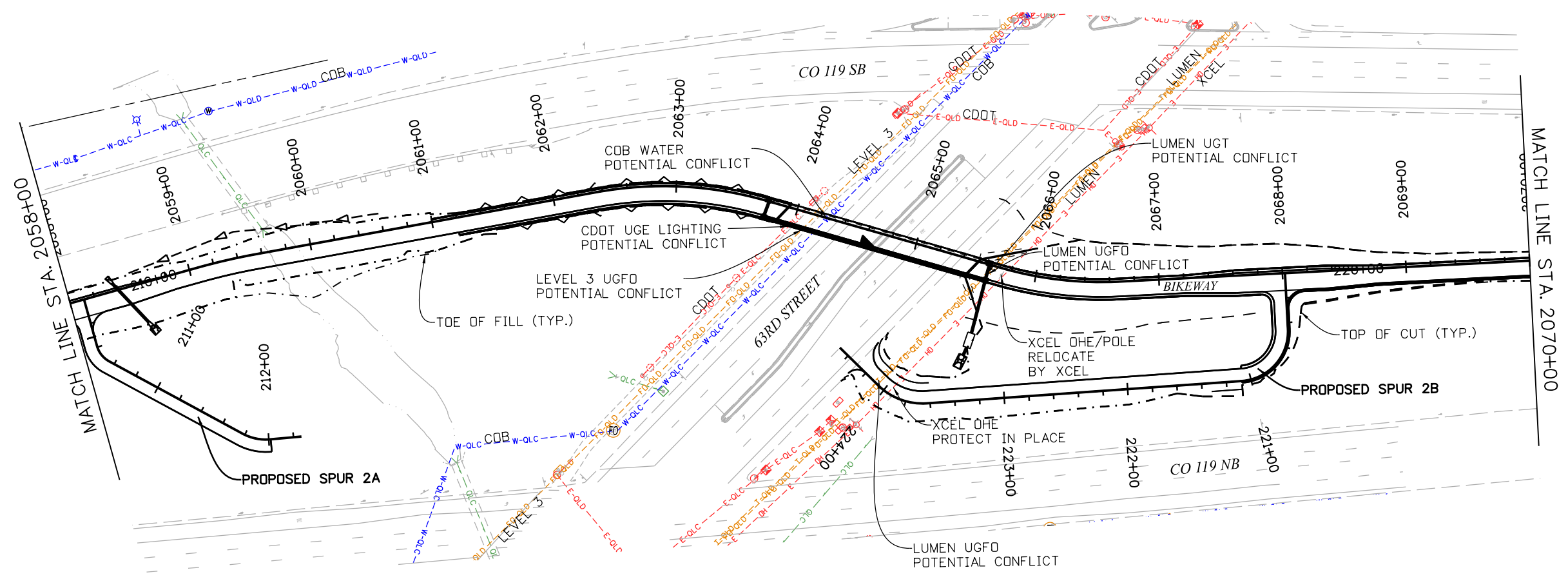
1. SEE DRAINAGE PLAN AND PROFILE SHEETS FOR DRAINAGE DESIGN AND DETAILS.
2. SEE BIKEWAY PLANS FOR BIKEWAY DETAILS.



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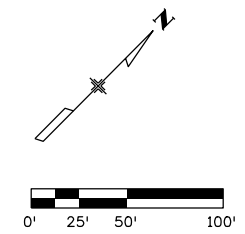
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Work 10:56:08 AM pw:\mullereng-pw.bentley.com\mullereng-pw-01\Documents\2021 Projects\21-015.01 CO 119 Bikeway\01 Pre-Construction\Utilities\400_21015_UT_Pln 15



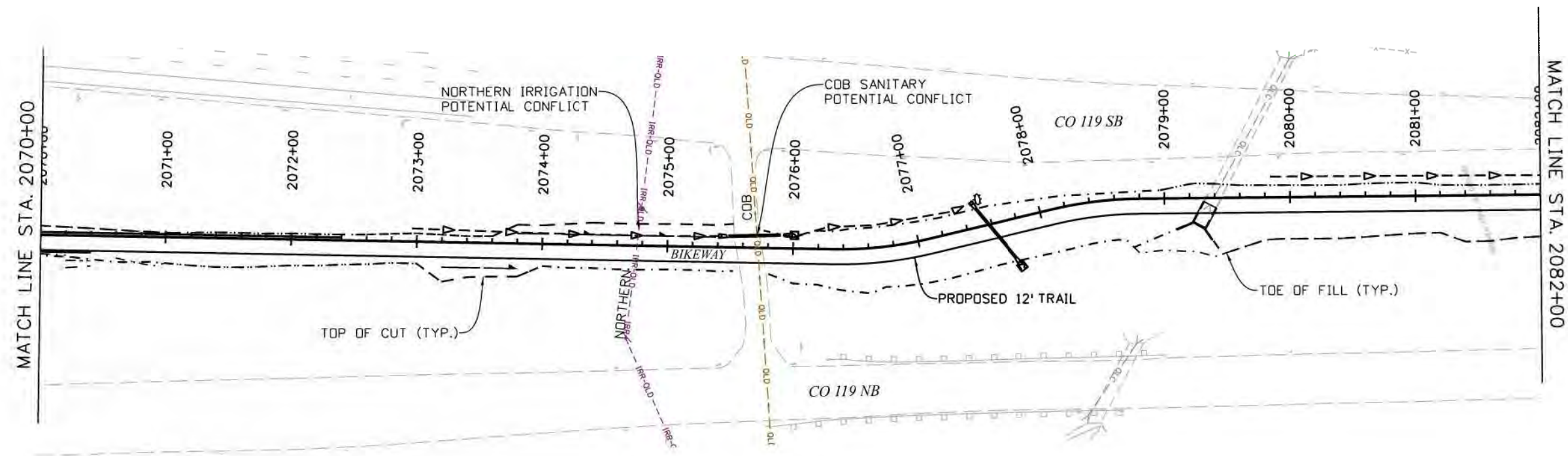
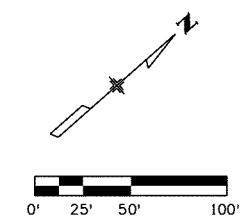
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1. SEE DRAINAGE PLAN AND PROFILE SHEETS FOR DRAINAGE DESIGN AND DETAILS.
2. SEE BIKEWAY PLANS FOR BIKEWAY DETAILS.



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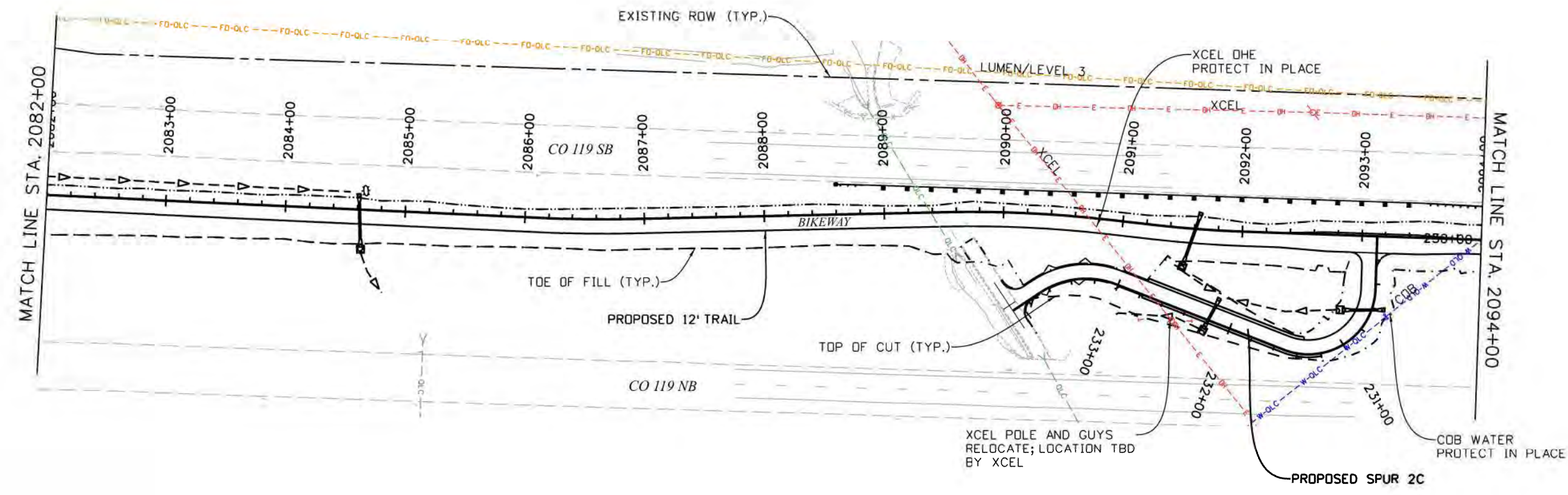
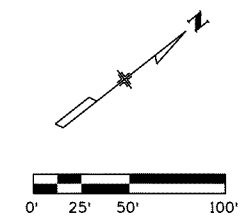


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1. SEE DRAINAGE PLAN AND PROFILE SHEETS FOR DRAINAGE DESIGN AND DETAILS.
2. SEE BIKEWAY PLANS FOR BIKEWAY DETAILS.



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| | | Date: | Comments | Init. | | No Revisions: | UTILITY PLAN | | | |
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| | | | | | | Sheet Number | | 115 | | |



NOTES

1. SEE DRAINAGE PLAN AND PROFILE SHEETS FOR DRAINAGE DESIGN AND DETAILS.
2. SEE BIKEWAY PLANS FOR BIKEWAY DETAILS.



Print Date: 6/28/2022
 File Name: 400_21015_UT_Pln 17.dgn
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 & ASSOCIATES, INC.

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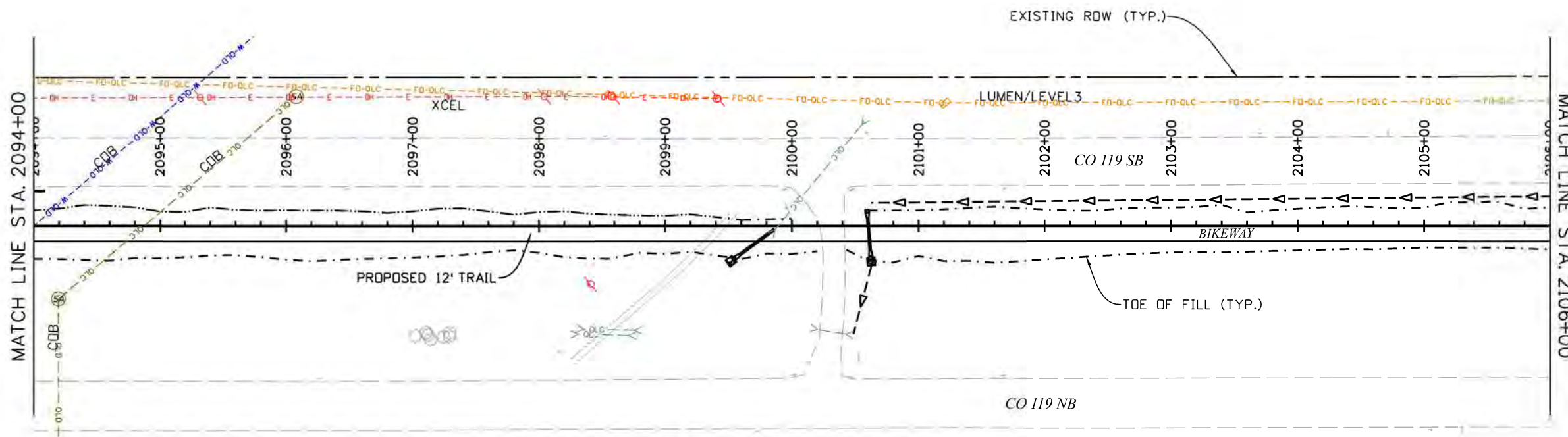


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| Detailer: | MEK | Numbers | |
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Project No./Code
 Sheet Number 116

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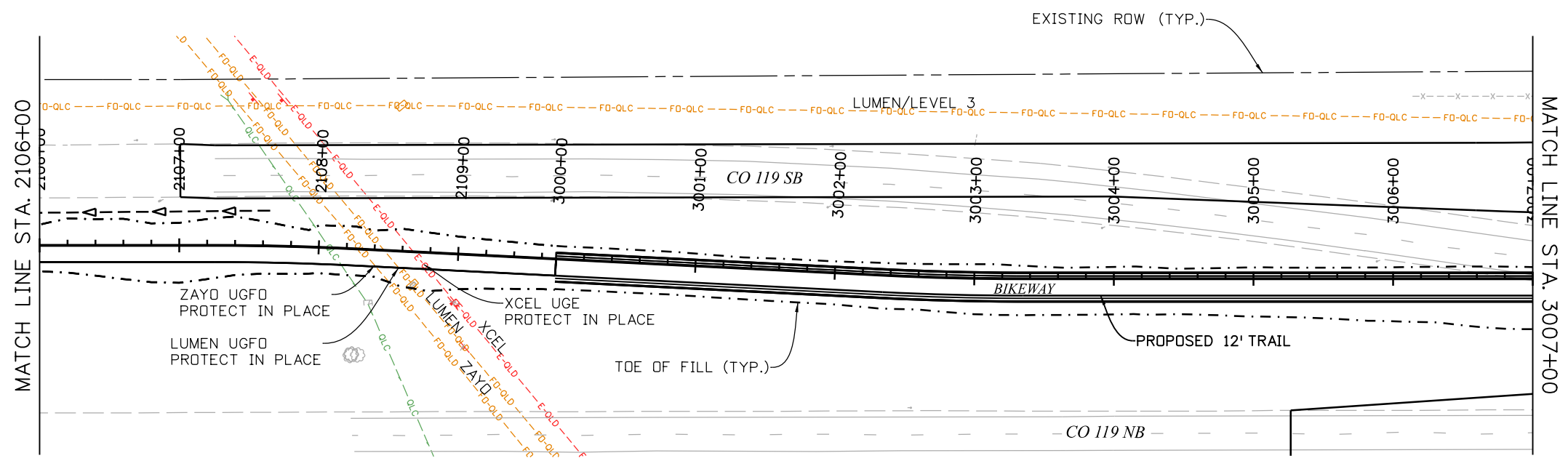
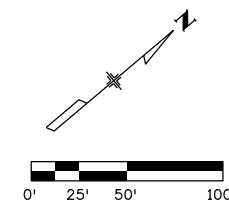
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1. SEE DRAINAGE PLAN AND PROFILE SHEETS FOR DRAINAGE DESIGN AND DETAILS.
2. SEE BIKEWAY PLANS FOR BIKEWAY DETAILS.



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| Print Date: 6/28/2022 File Name: 400_21015_UT_Pln 18.dgn Horiz. Scale: 1"=100' Vert. Scale: As Noted Unit Information GOODBEE & ASSOCIATES, INC. | Sheet Revisions <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">Date</th> <th style="width: 60%;">Comments</th> <th style="width: 30%;">Init.</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table> | Date | Comments | Init. | | | | | | | | | | | | | | As Constructed No Revisions: Revised: Void: | CD 119 BIKEWAY UTILITY PLAN STA 2094+00 TO STA 2106+00 Designer: LH Detailer: MEK Sheet Subset: UTILITY Structure Numbers Subset Sheets: UT18 of 44 | Project No./Code Sheet Number 117 |
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1. SEE DRAINAGE PLAN AND PROFILE SHEETS FOR DRAINAGE DESIGN AND DETAILS.
2. SEE BIKEWAY PLANS FOR BIKEWAY DETAILS.



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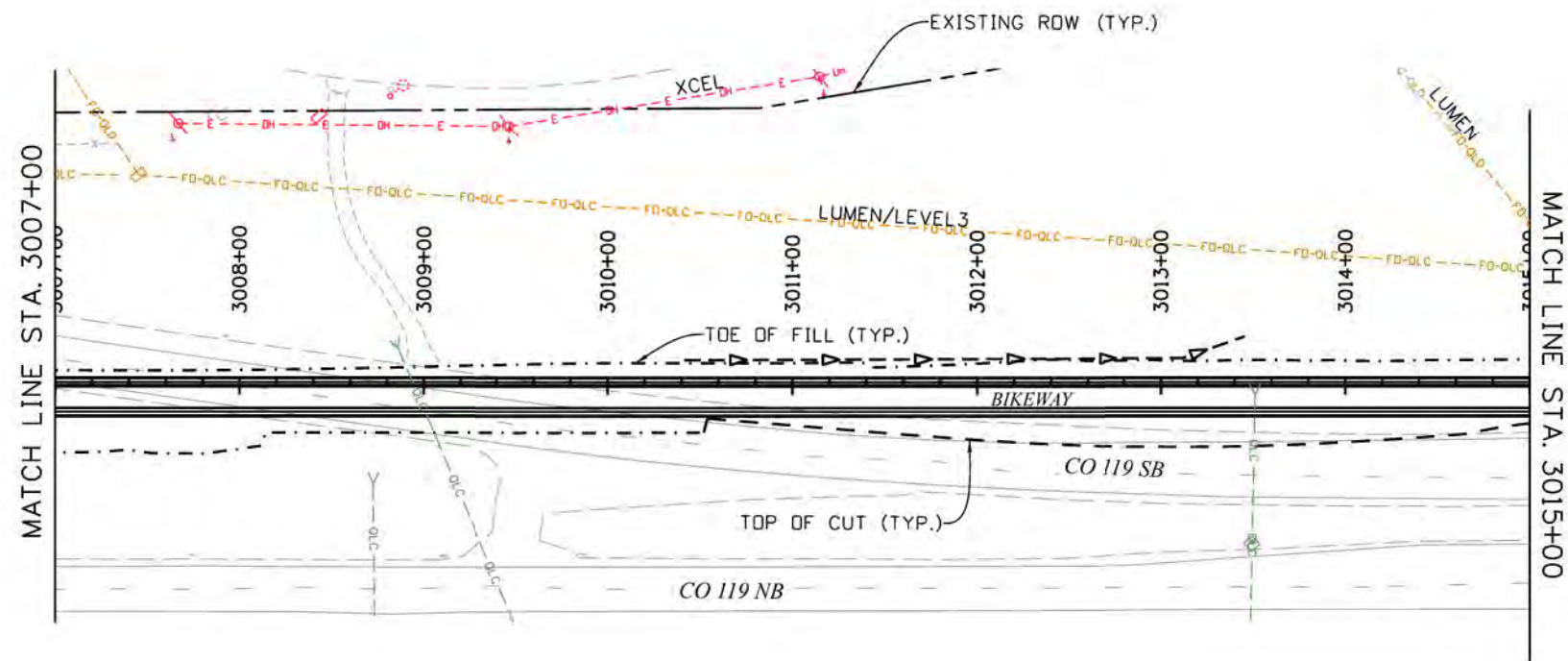
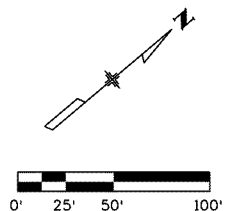


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| UTILITY PLAN | | | |
| STA 2106+00 TO STA 3007+00 | | | |
| Designer: | LH | Structure | |
| Detailer: | MEK | Numbers | |
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| Project No./Code |
| |
| Sheet Number 118 |

Work 10:38:25 AM pw:\mullereng-pw.bentley.com\mullereng-pw-01\Documents\2021 Projects\21-015.01 CO 119 Bikeway\01 Pre-Construction\Utilities\400_21015_UT_Pln 19



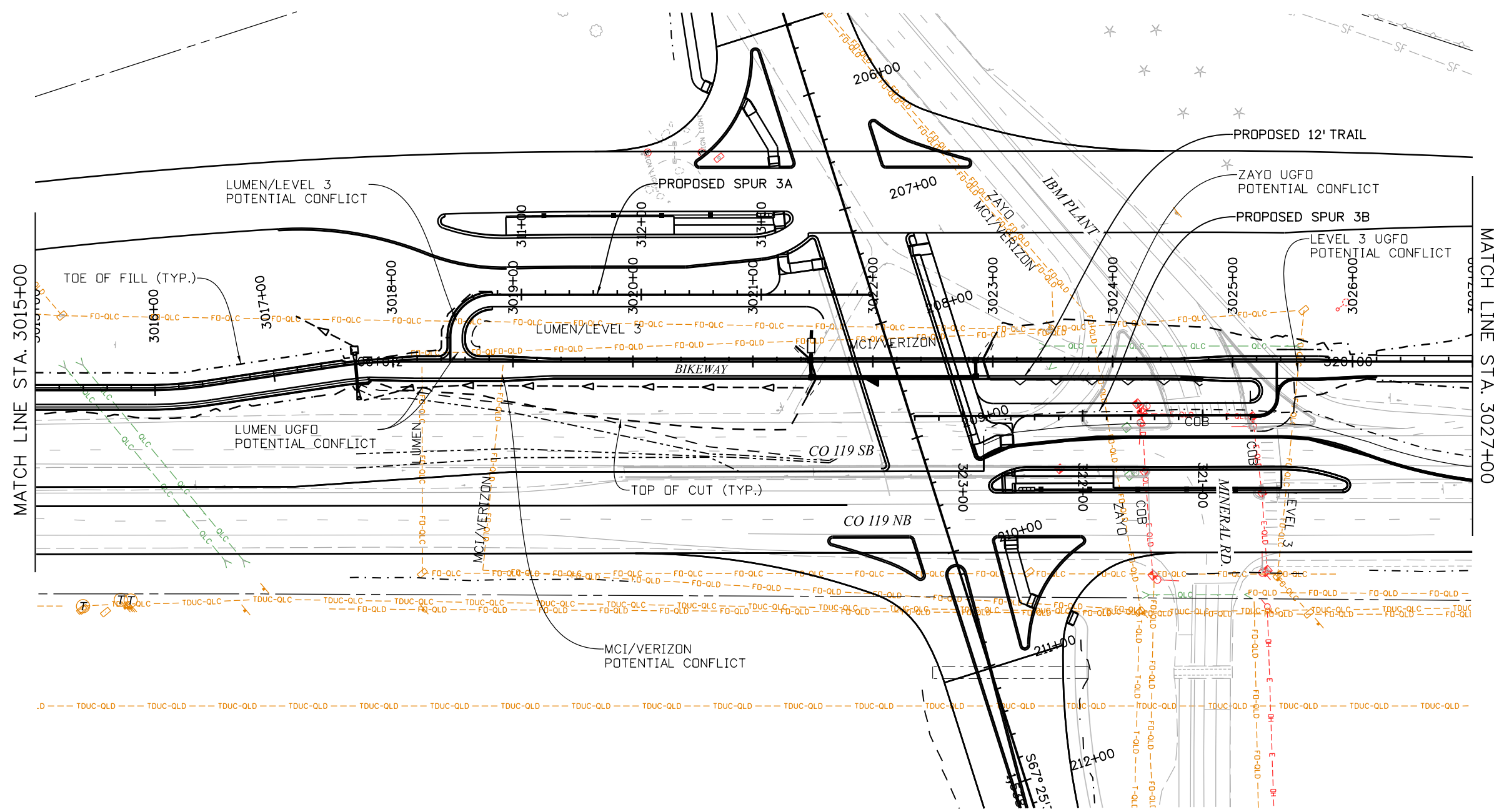
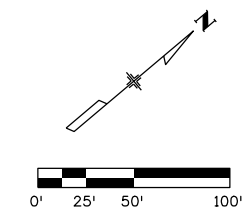
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1. SEE DRAINAGE PLAN AND PROFILE SHEETS FOR DRAINAGE DESIGN AND DETAILS.
2. SEE BIKEWAY PLANS FOR BIKEWAY DETAILS.



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| | | | | | Sheet Subset: UTILITY | | Subset Sheets: UT20of 44 | | | | |



NOTES

1. SEE DRAINAGE PLAN AND PROFILE SHEETS FOR DRAINAGE DESIGN AND DETAILS.
2. SEE BIKEWAY PLANS FOR BIKEWAY DETAILS.



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| Print Date: 6/28/2022 |
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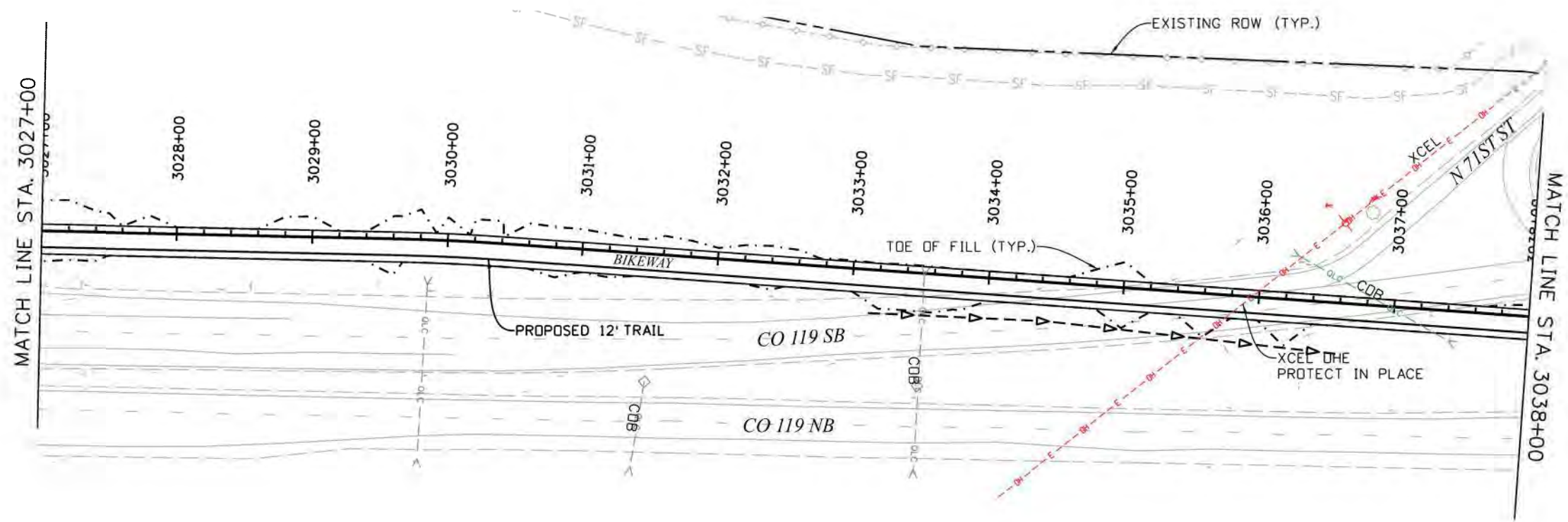
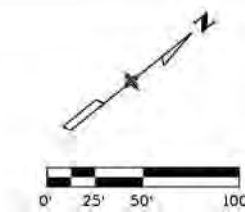


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| CD 119 BIKEWAY | | | |
| UTILITY PLAN | | | |
| STA 3015+00 TO STA 3027+00 | | | |
| Designer: | LH | Structure | |
| Detailer: | MEK | Numbers | |
| Sheet Subset: | UTILITY | Subset Sheets: | UT21of 44 |

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| Project No./Code |
| Sheet Number 120 |

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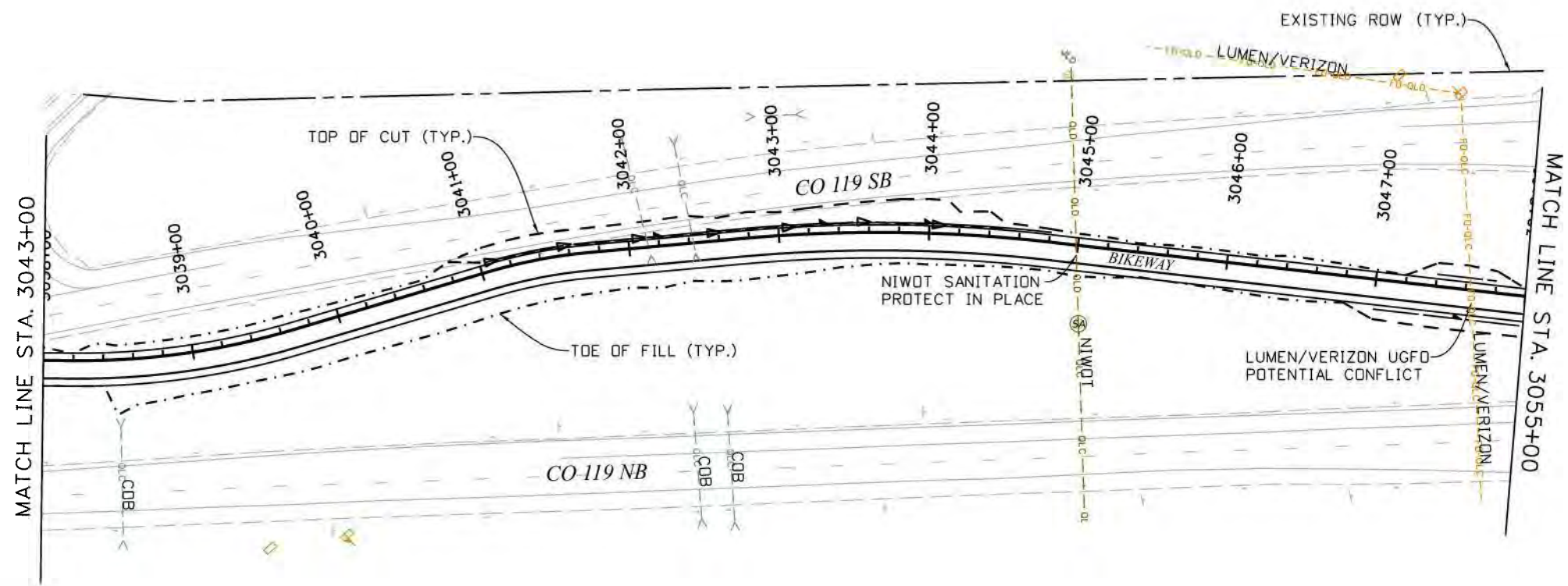
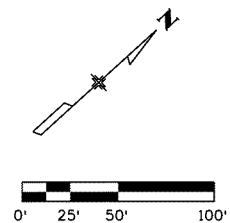
1. SEE DRAINAGE PLAN AND PROFILE SHEETS FOR DRAINAGE DESIGN AND DETAILS.
2. SEE BIKEWAY PLANS FOR BIKEWAY DETAILS.



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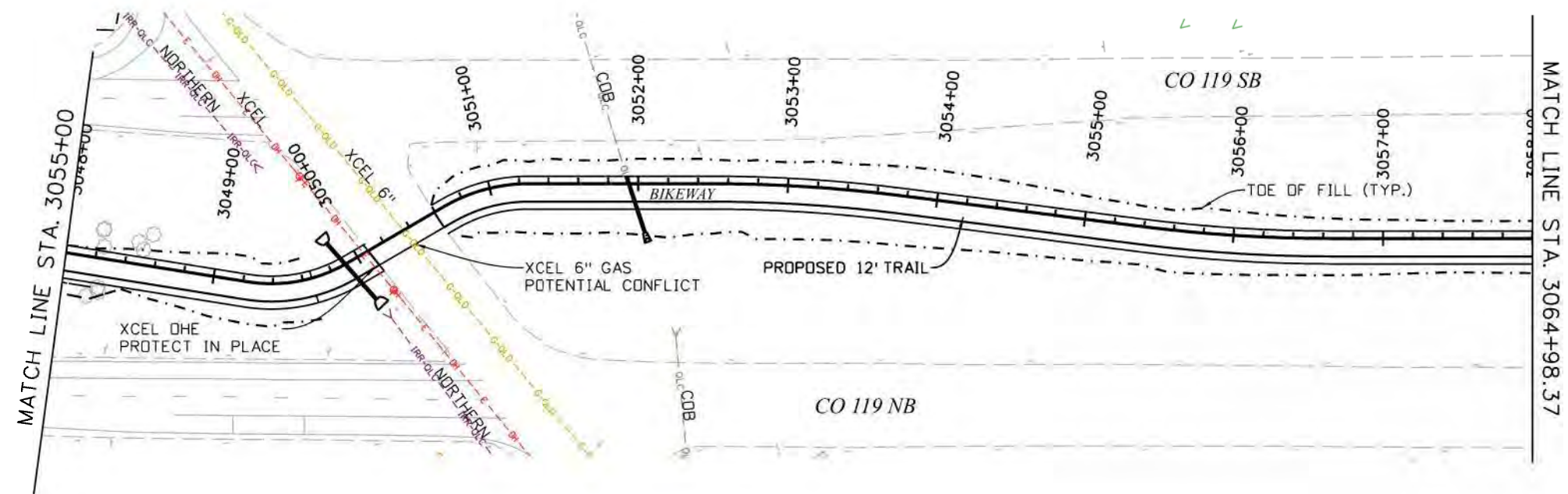
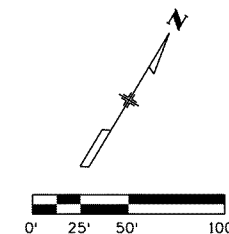


NOTES

1. SEE DRAINAGE PLAN AND PROFILE SHEETS FOR DRAINAGE DESIGN AND DETAILS.
2. SEE BIKEWAY PLANS FOR BIKEWAY DETAILS.



| Print Date: 6/28/2022 File Name: 400_21015_UT_Pln 23.dgn Horiz. Scale: 1"=100' Vert. Scale: As Noted Unit Information GOODBEE & ASSOCIATES, INC. | | Sheet Revisions | | | As Constructed No Revisions: Revised: Void: | CD 119 BIKEWAY UTILITY PLAN STA 3038+00 TO STA 3048+00 | | | Project No./Code | | | | | | | |
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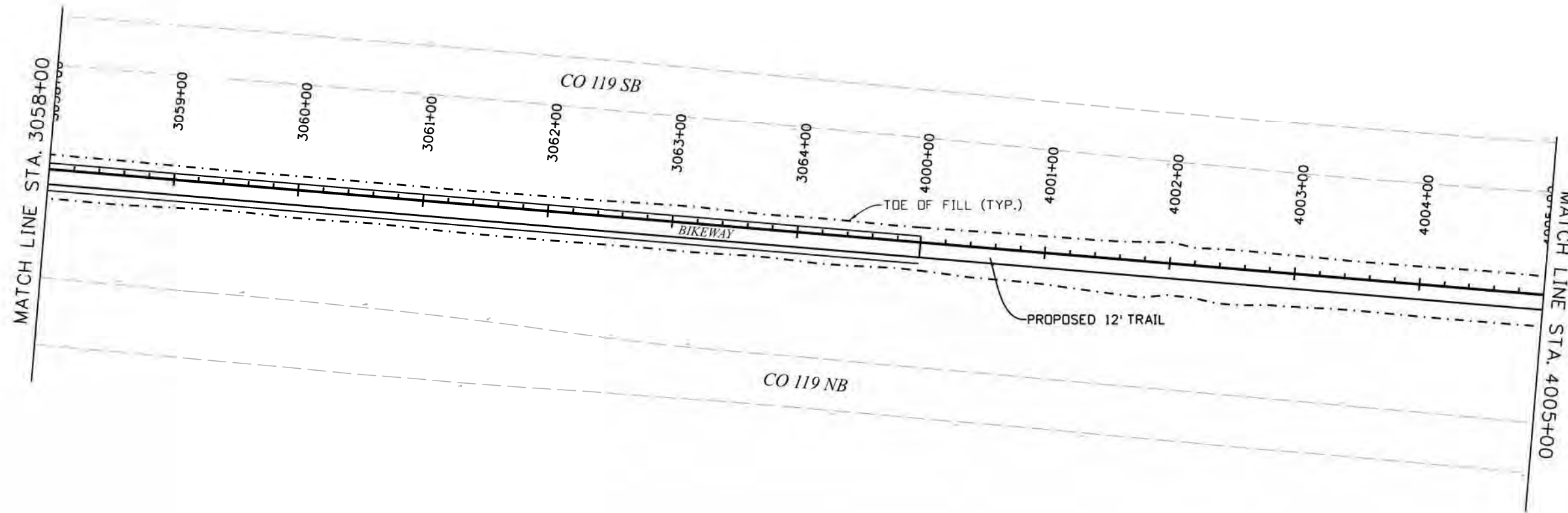
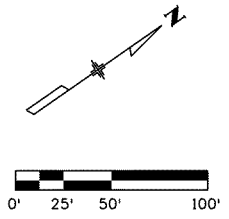
NOTES

1. SEE DRAINAGE PLAN AND PROFILE SHEETS FOR DRAINAGE DESIGN AND DETAILS.
2. SEE BIKEWAY PLANS FOR BIKEWAY DETAILS.



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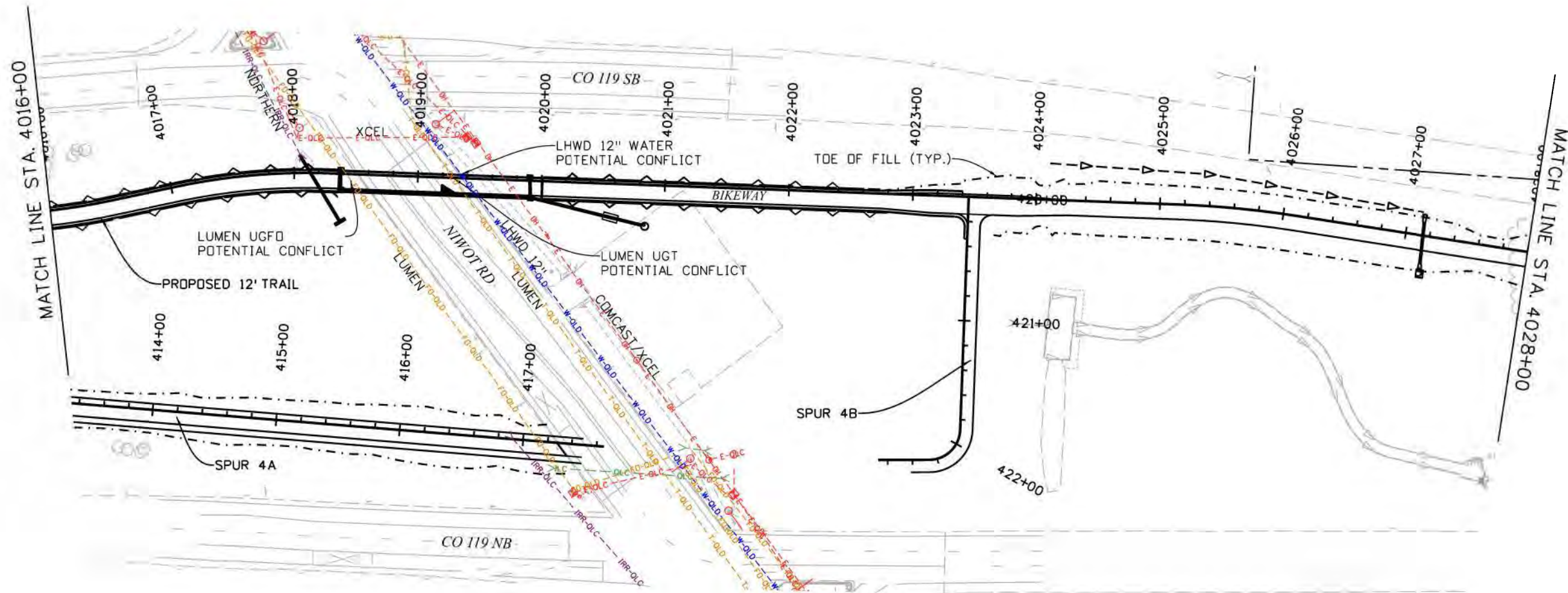
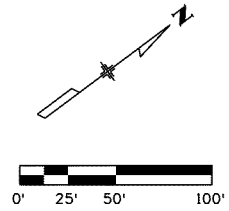
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1. SEE DRAINAGE PLAN AND PROFILE SHEETS FOR DRAINAGE DESIGN AND DETAILS.
2. SEE BIKEWAY PLANS FOR BIKEWAY DETAILS.



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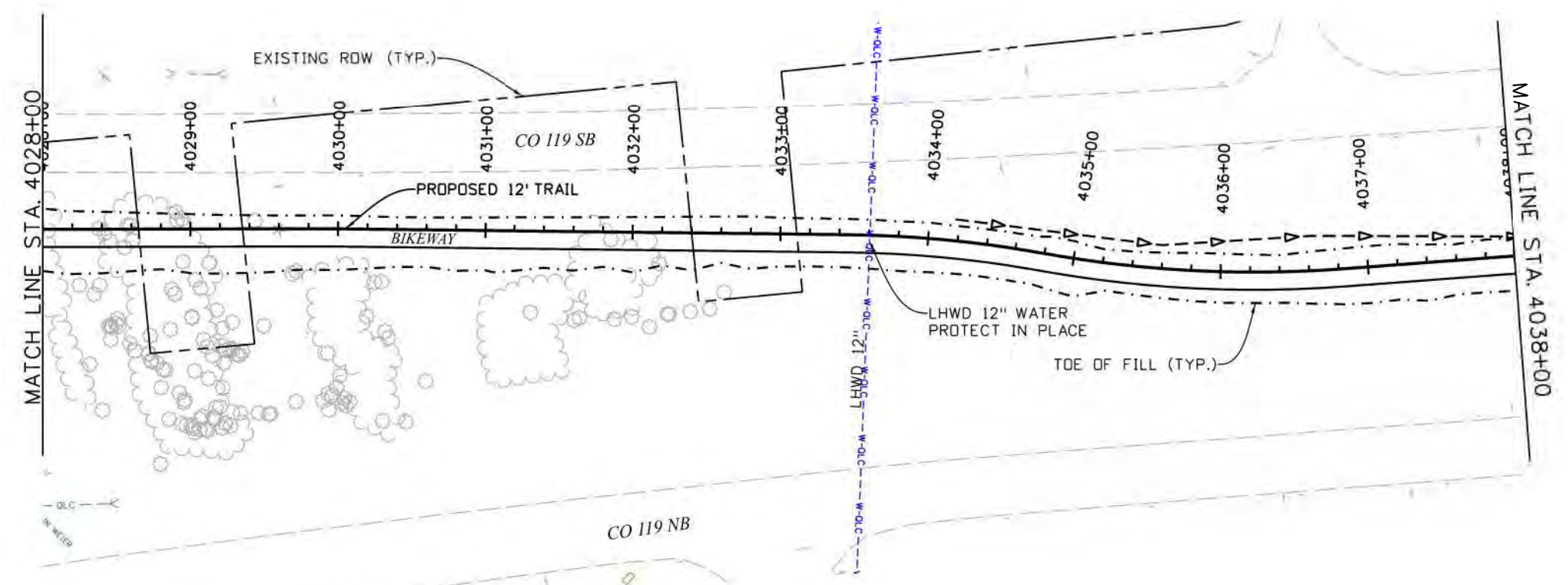
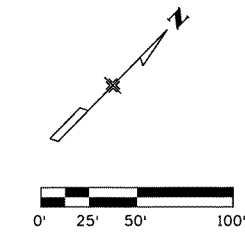
NOTES

1. SEE DRAINAGE PLAN AND PROFILE SHEETS FOR DRAINAGE DESIGN AND DETAILS.
2. SEE BIKEWAY PLANS FOR BIKEWAY DETAILS.



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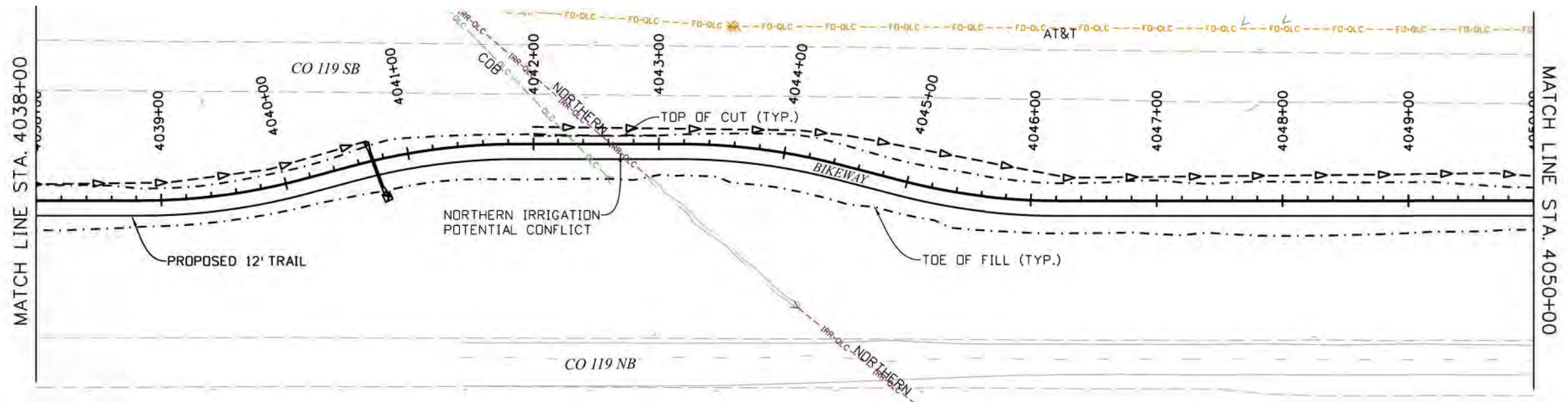
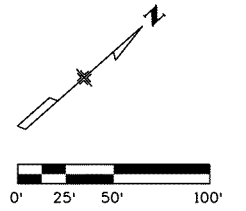
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1. SEE DRAINAGE PLAN AND PROFILE SHEETS FOR DRAINAGE DESIGN AND DETAILS.
2. SEE BIKEWAY PLANS FOR BIKEWAY DETAILS.



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| | | Date: Comments Init. | | | | | | | |
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NOTES

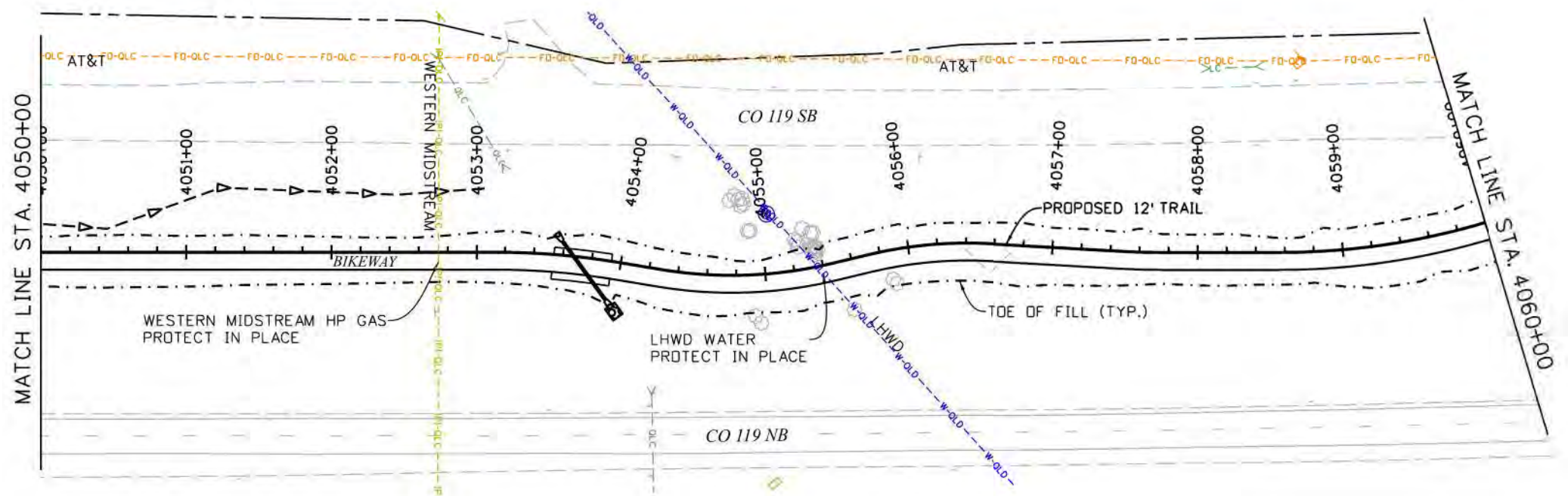
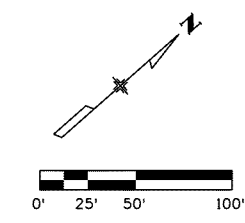
1. SEE DRAINAGE PLAN AND PROFILE SHEETS FOR DRAINAGE DESIGN AND DETAILS.
2. SEE BIKEWAY PLANS FOR BIKEWAY DETAILS.



Work 12:43:06 AM pw:\muliereng-pw-bentley.com\muliereng-pw-01\Documents\2021 Projects\21-015.01 CO 119 Bikeway\01 Pre-Construction\Utilities\400_21015_UT_Pln_29

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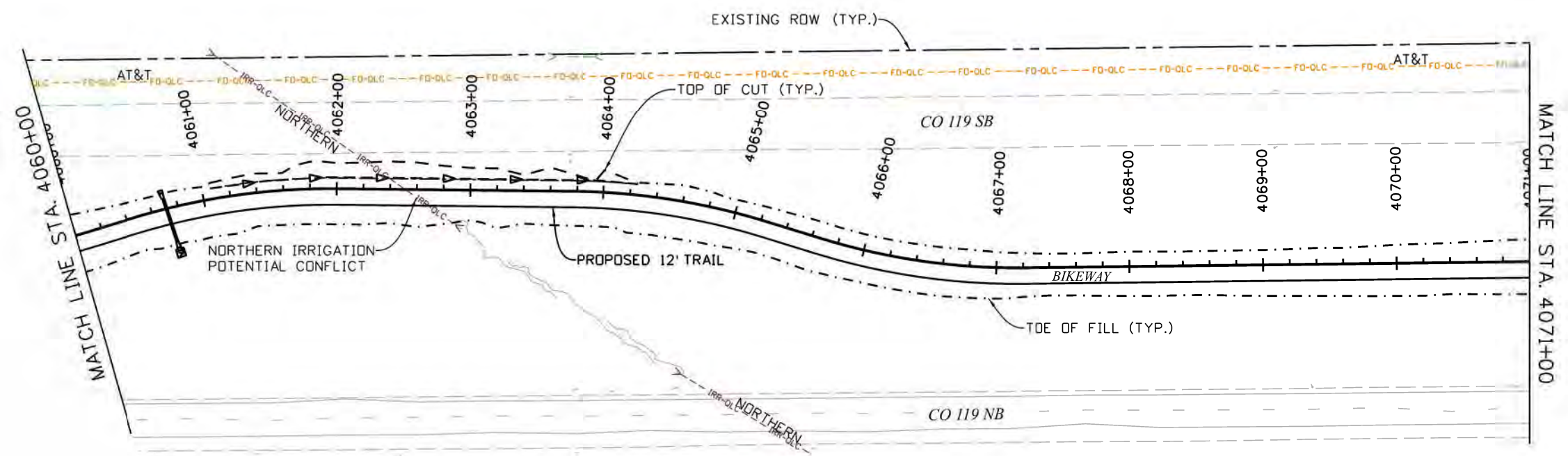
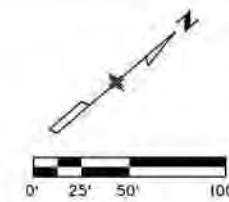


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1. SEE DRAINAGE PLAN AND PROFILE SHEETS FOR DRAINAGE DESIGN AND DETAILS.
2. SEE BIKEWAY PLANS FOR BIKEWAY DETAILS.



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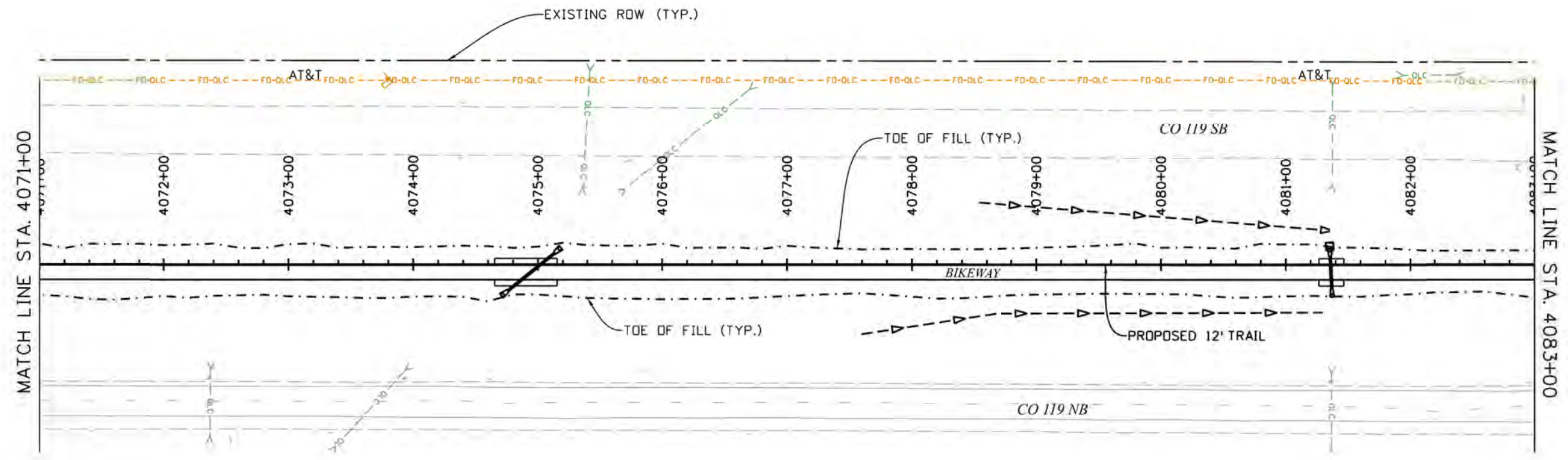
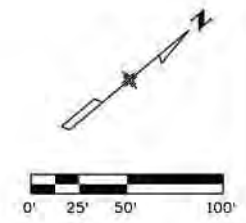
1. SEE DRAINAGE PLAN AND PROFILE SHEETS FOR DRAINAGE DESIGN AND DETAILS.
2. SEE BIKEWAY PLANS FOR BIKEWAY DETAILS.



Work 12:44:49 AM pw:\mullereng-pw-bentley.com\mullereng-pw-01\Documents\2021 Projects\21-015.01 CO 119 Bikeway\01 Pre-Construction\Utilities\400_21015_UT_Pln_31

| Print Date: 6/28/2022 File Name: 400_21015_UT_Pln_31.dgn Horiz. Scale: 1"=100' Vert. Scale: As Noted Unit Information | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3">Sheet Revisions</th> </tr> <tr> <th style="width: 15%;">Date</th> <th style="width: 60%;">Comments</th> <th style="width: 25%;">Init.</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table> | Sheet Revisions | | | Date | Comments | Init. | | | | | | | | | | | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">As Constructed</td> <td colspan="2" style="text-align: center;">CD 119 BIKEWAY</td> </tr> <tr> <td>No Revisions:</td> <td colspan="2" style="text-align: center;">UTILITY PLAN</td> </tr> <tr> <td>Revised:</td> <td colspan="2" style="text-align: center;">STA 4060+00 TO STA 4071+00</td> </tr> <tr> <td>Void:</td> <td style="width: 20%;">Designer: LH</td> <td style="width: 30%;">Structure Numbers</td> </tr> <tr> <td></td> <td>Detailer: MEK</td> <td></td> </tr> <tr> <td></td> <td>Sheet Subset: UTILITY</td> <td>Subset Sheets: UT31of 44</td> </tr> </table> | As Constructed | CD 119 BIKEWAY | | No Revisions: | UTILITY PLAN | | Revised: | STA 4060+00 TO STA 4071+00 | | Void: | Designer: LH | Structure Numbers | | Detailer: MEK | | | Sheet Subset: UTILITY | Subset Sheets: UT31of 44 | Project No./Code Sheet Number 129 |
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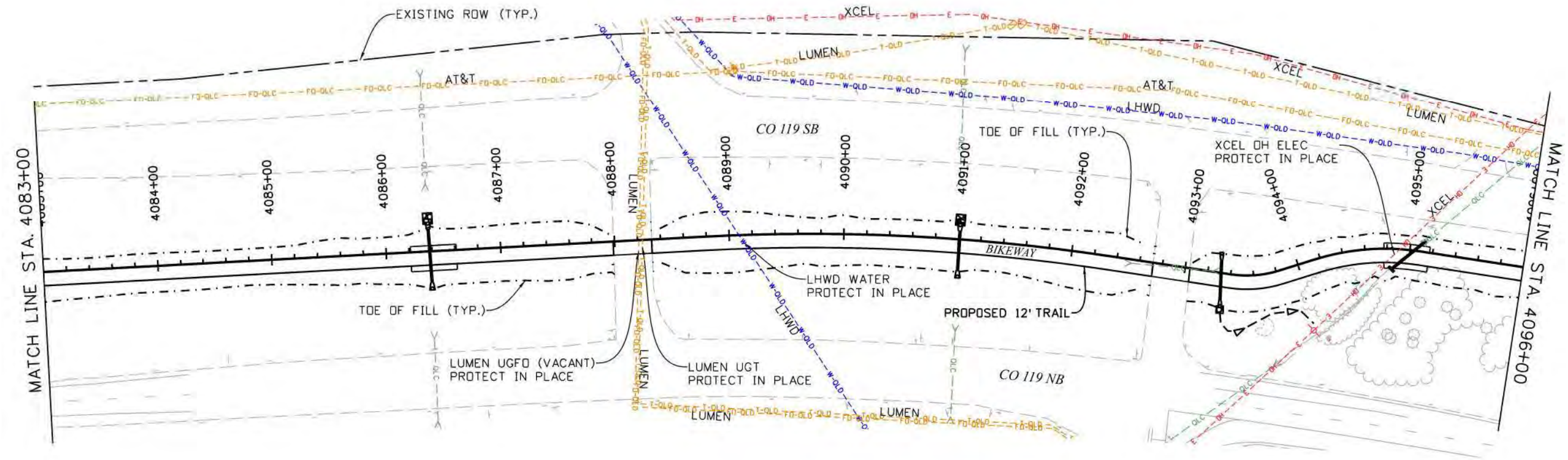
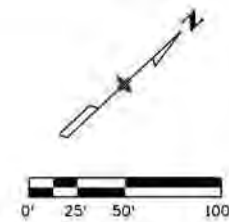
NOTES

1. SEE DRAINAGE PLAN AND PROFILE SHEETS FOR DRAINAGE DESIGN AND DETAILS.
2. SEE BIKEWAY PLANS FOR BIKEWAY DETAILS.



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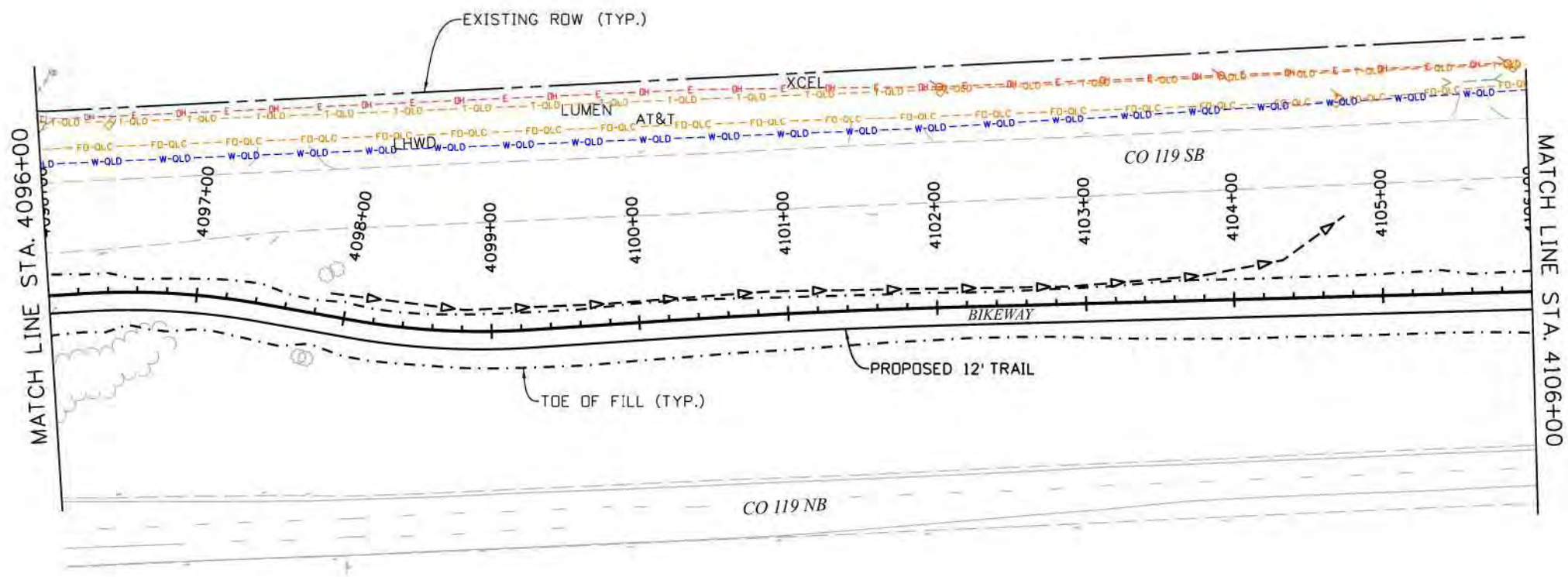
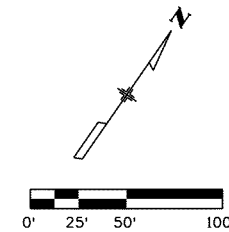


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1. SEE DRAINAGE PLAN AND PROFILE SHEETS FOR DRAINAGE DESIGN AND DETAILS.
2. SEE BIKEWAY PLANS FOR BIKEWAY DETAILS.



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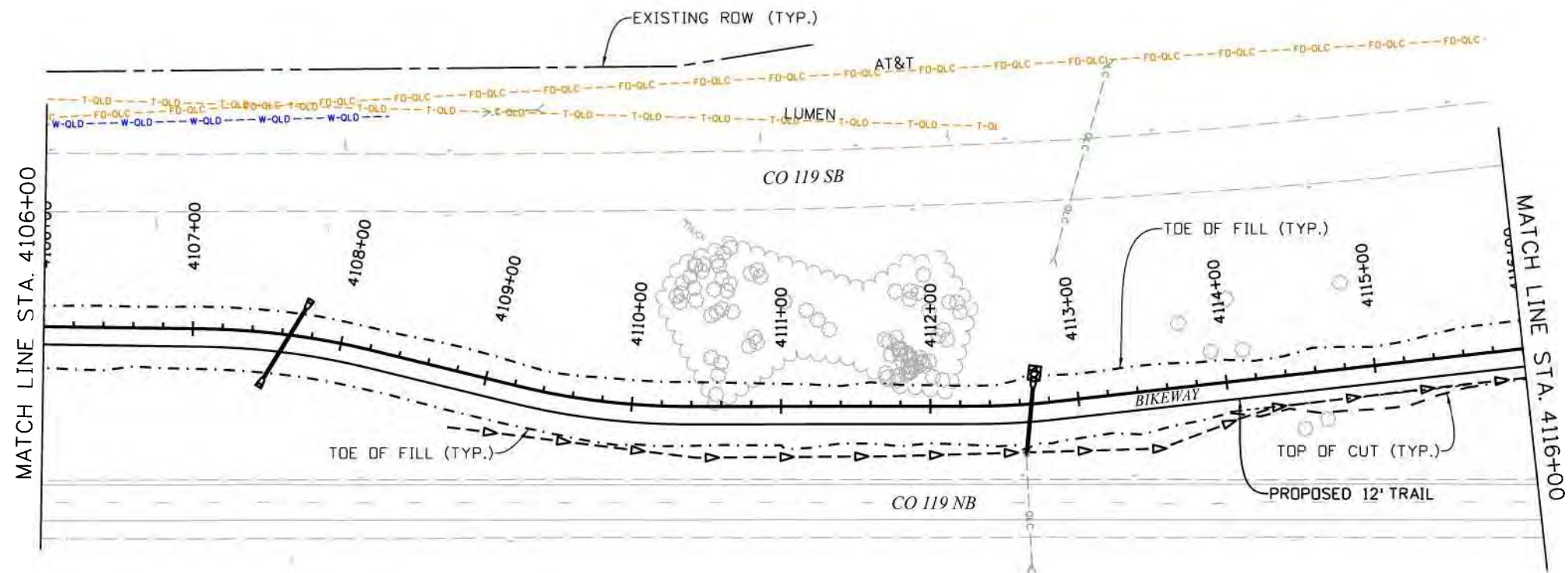
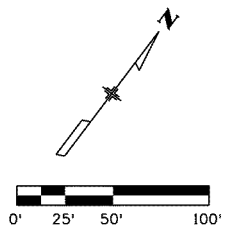
1. SEE DRAINAGE PLAN AND PROFILE SHEETS FOR DRAINAGE DESIGN AND DETAILS.
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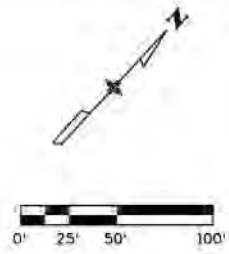
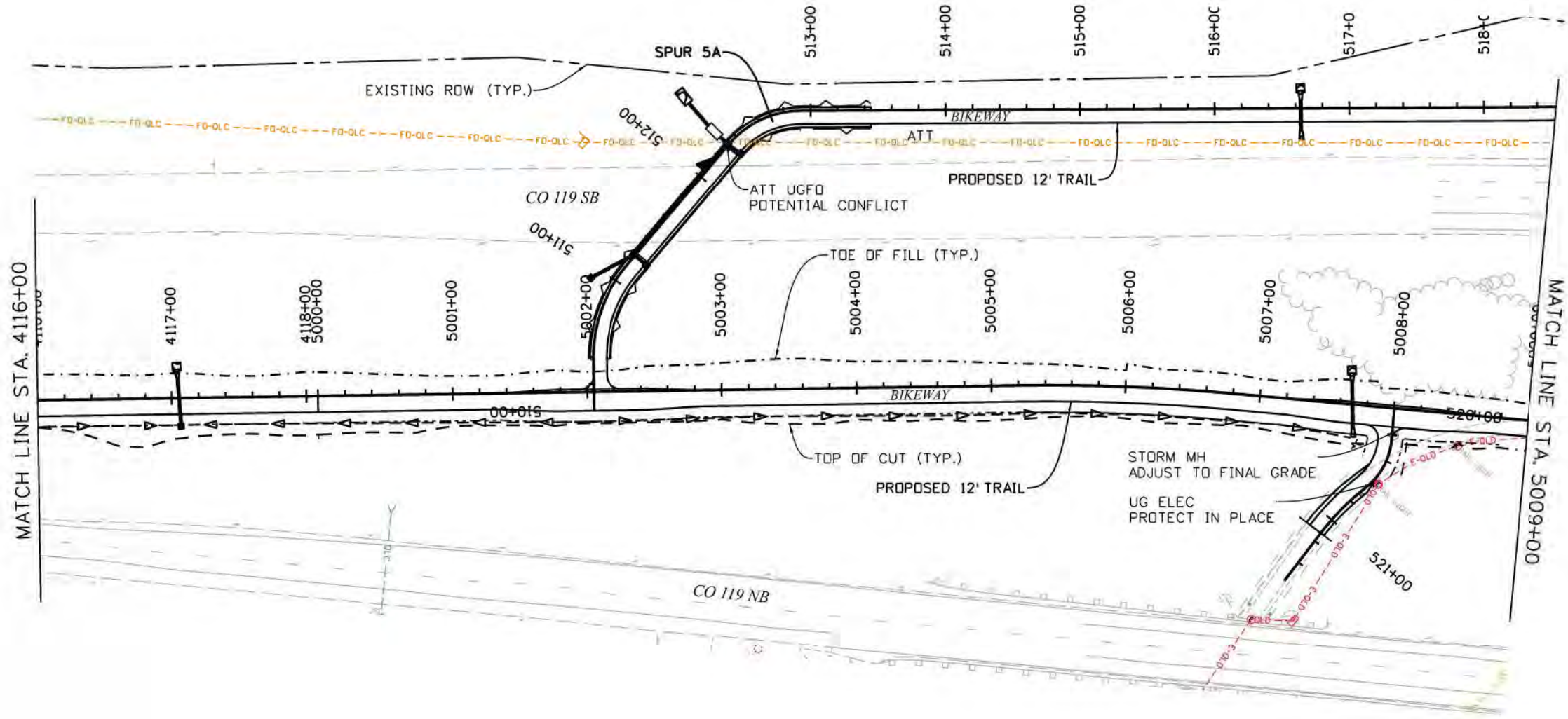
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1. SEE DRAINAGE PLAN AND PROFILE SHEETS FOR DRAINAGE DESIGN AND DETAILS.
2. SEE BIKEWAY PLANS FOR BIKEWAY DETAILS.



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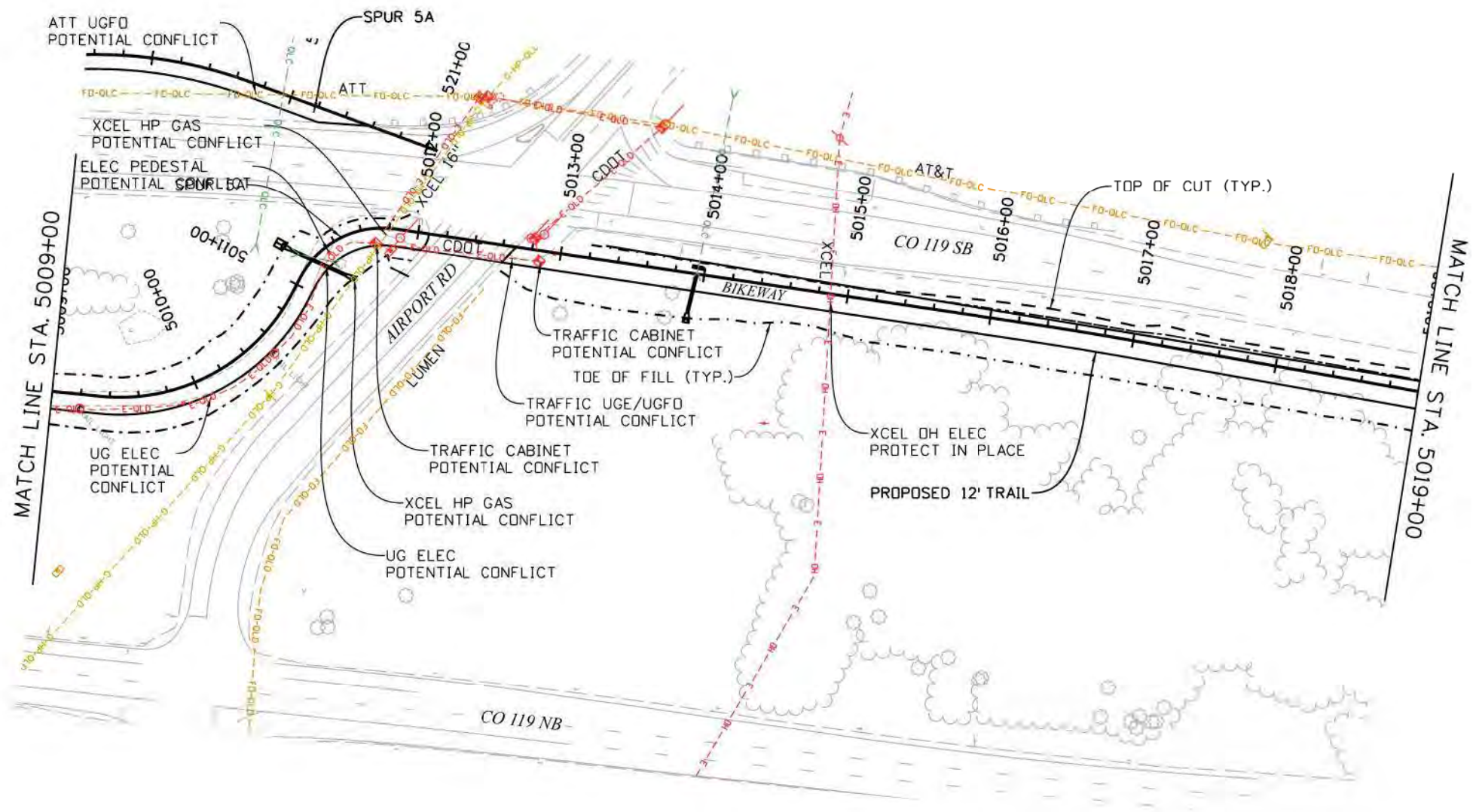
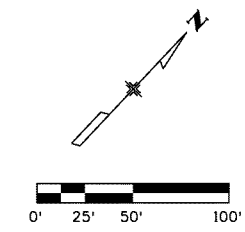
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1. SEE DRAINAGE PLAN AND PROFILE SHEETS FOR DRAINAGE DESIGN AND DETAILS.
2. SEE BIKEWAY PLANS FOR BIKEWAY DETAILS.



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- 1. SEE DRAINAGE PLAN AND PROFILE SHEETS FOR DRAINAGE DESIGN AND DETAILS.
- 2. SEE BIKEWAY PLANS FOR BIKEWAY DETAILS.



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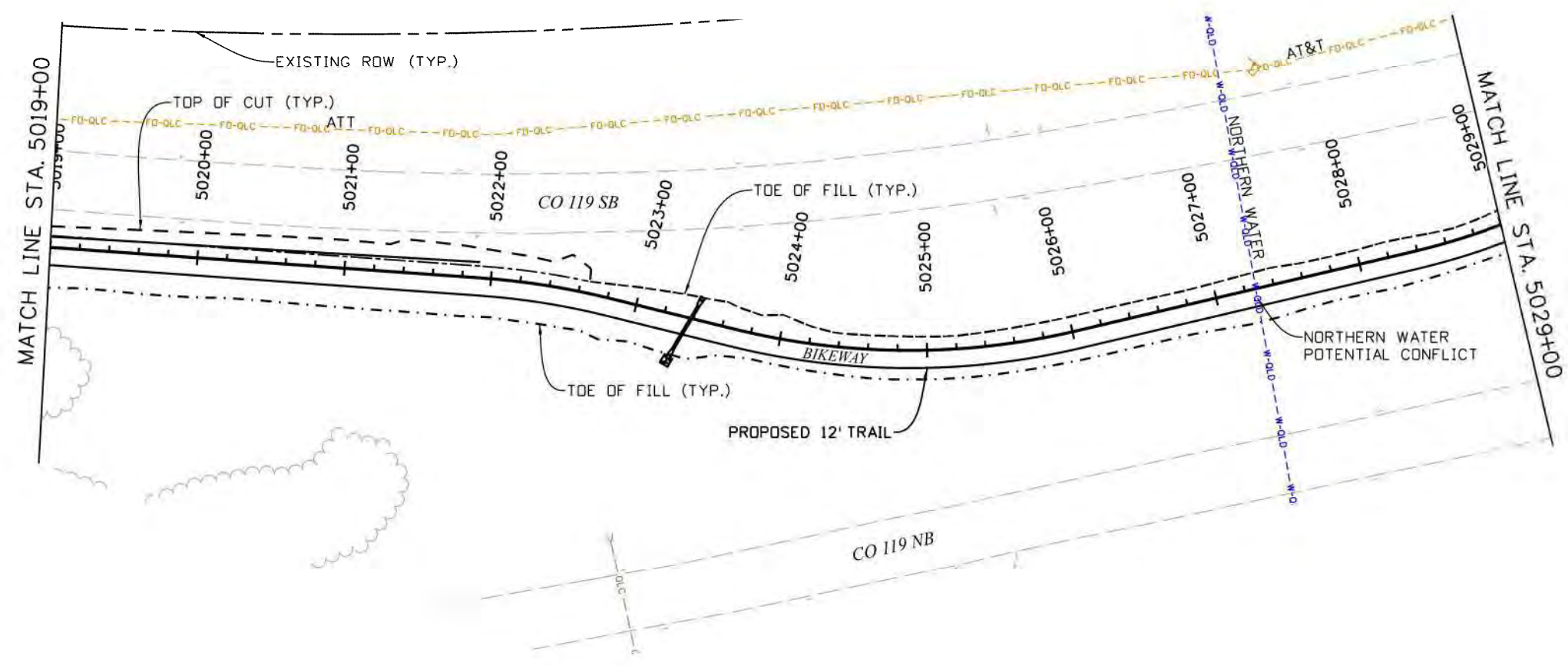
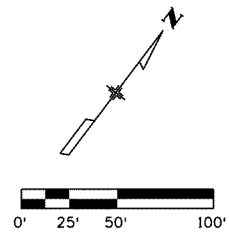


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| CD 119 BIKEWAY | | | |
| UTILITY PLAN | | | |
| STA 5009+00 TO STA 5019+00 | | | |
| Designer: | LH | Structure | |
| Detailer: | MEK | Numbers | |
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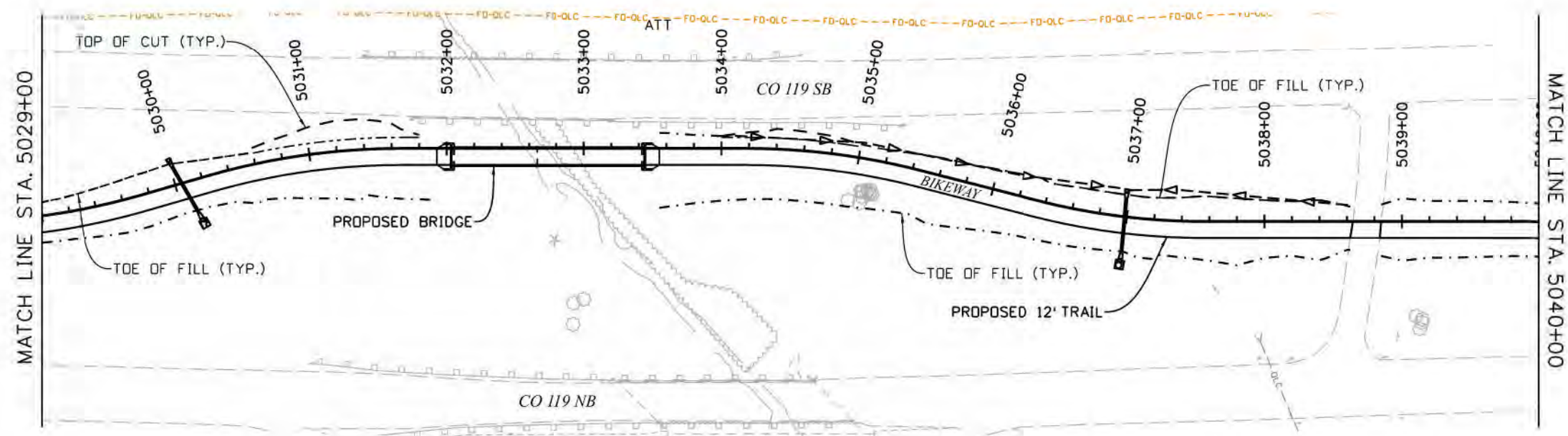
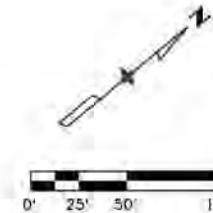
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1. SEE DRAINAGE PLAN AND PROFILE SHEETS FOR DRAINAGE DESIGN AND DETAILS.
2. SEE BIKEWAY PLANS FOR BIKEWAY DETAILS.



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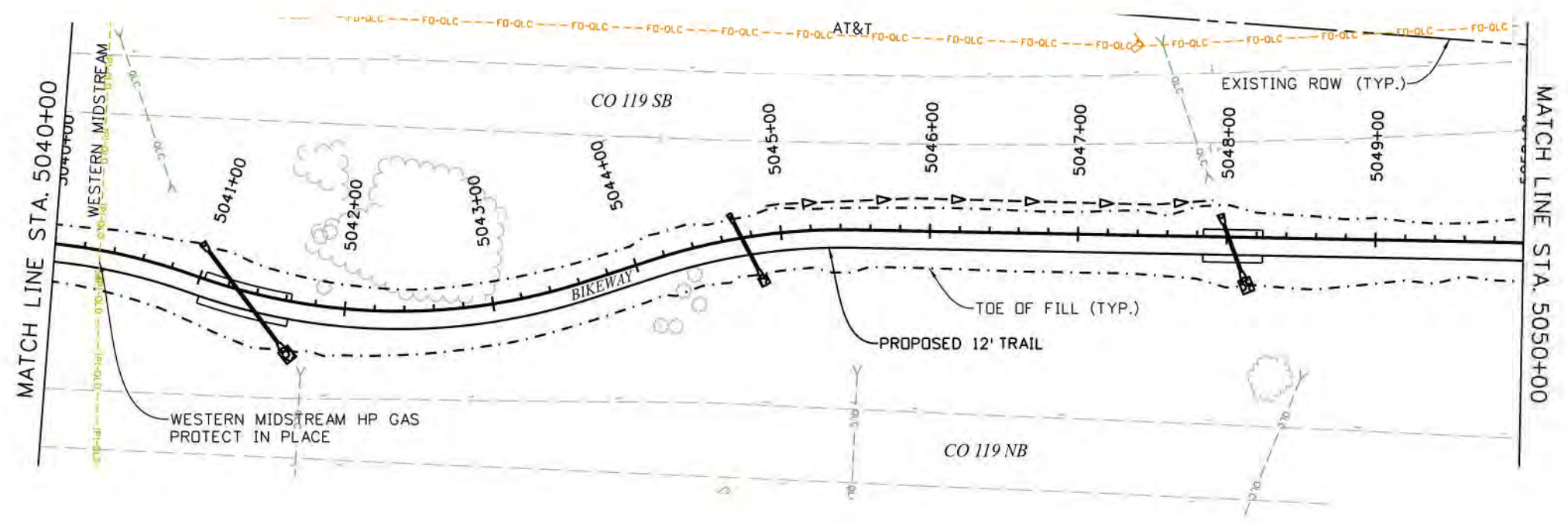
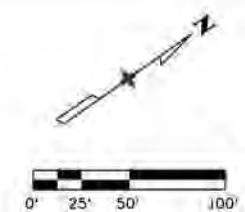
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2. SEE BIKEWAY PLANS FOR BIKEWAY DETAILS.



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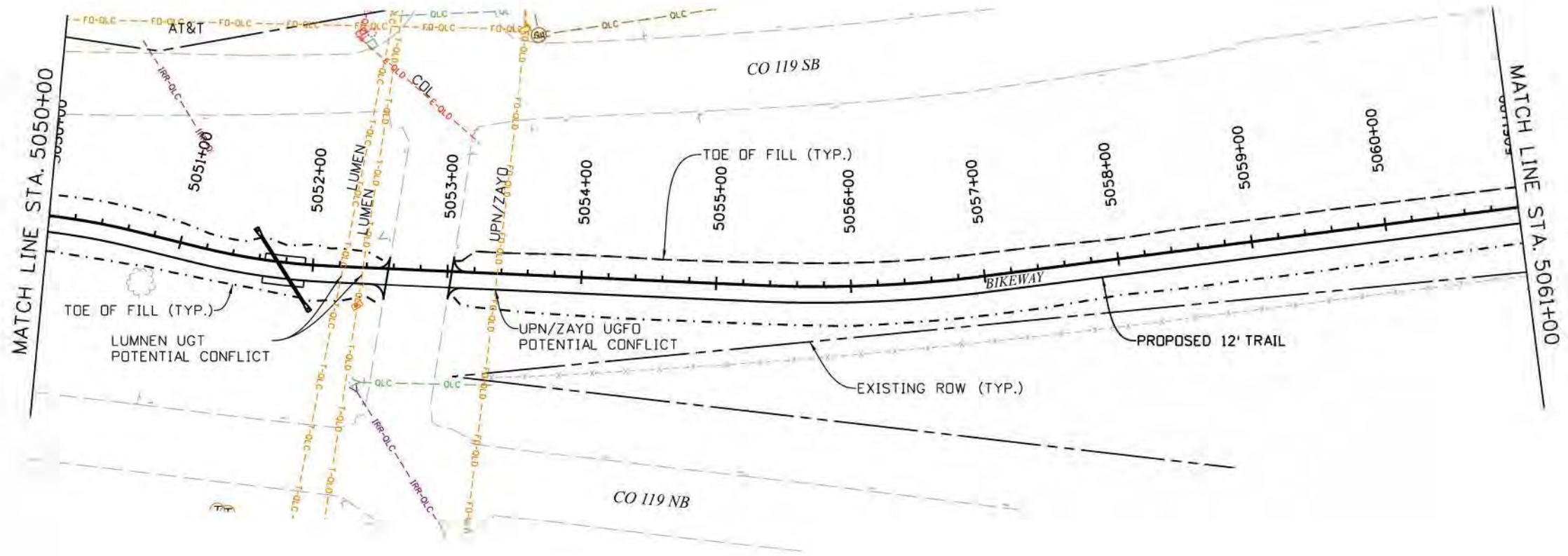
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1. SEE DRAINAGE PLAN AND PROFILE SHEETS FOR DRAINAGE DESIGN AND DETAILS.
2. SEE BIKEWAY PLANS FOR BIKEWAY DETAILS.



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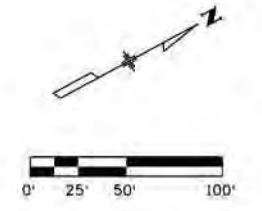
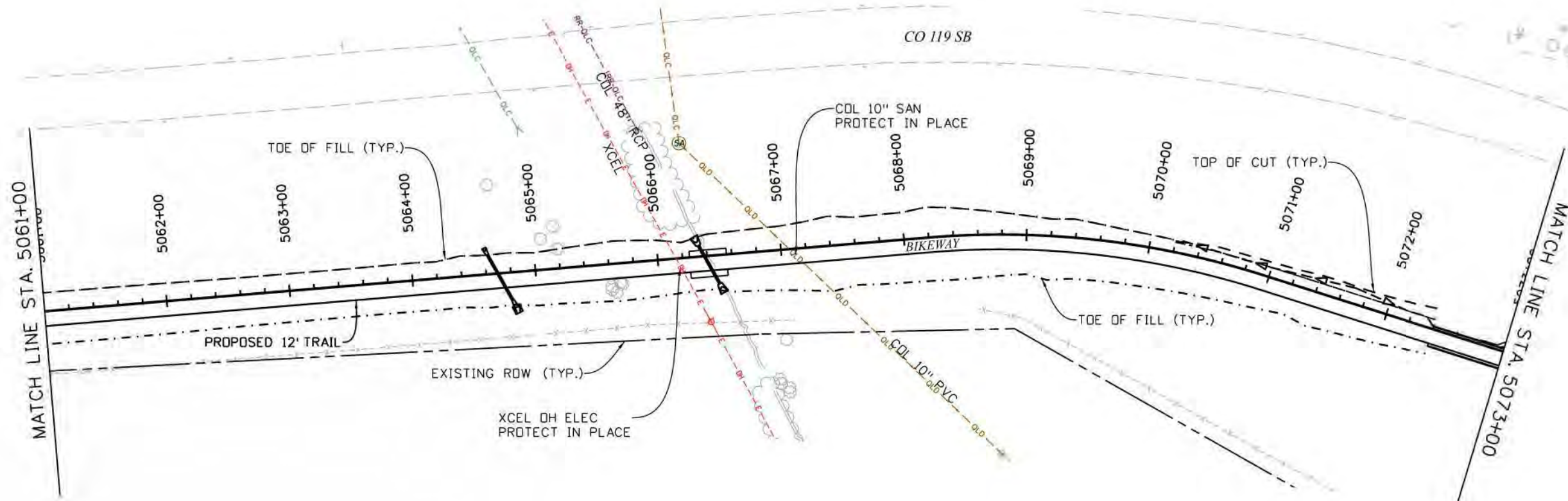


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1. SEE DRAINAGE PLAN AND PROFILE SHEETS FOR DRAINAGE DESIGN AND DETAILS.
2. SEE BIKEWAY PLANS FOR BIKEWAY DETAILS.



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| | Date: | Comments | Init. | | No Revisions: | UTILITY PLAN | | | | |
| | | | | | Revised: | Designer: LH | Structure | | STA 5050+00 TO STA 5061+00 | Sheet Number 139 |
| | | | | | Void: | Detailer: MEK | Numbers | | | |
| | | | Sheet Subset: UTILITY | | | Subset Sheets: UT41of 44 | | | | |



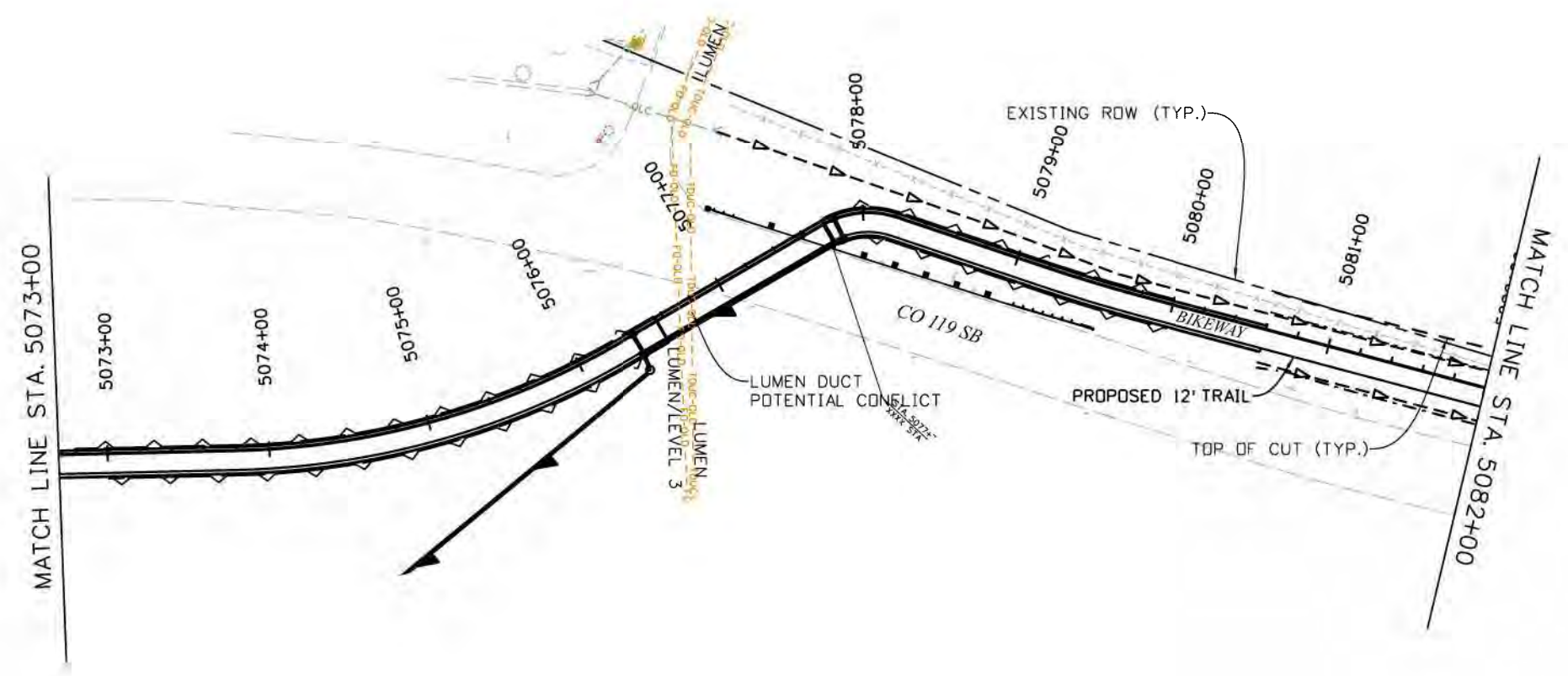
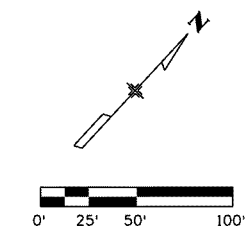
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NOTES

1. SEE DRAINAGE PLAN AND PROFILE SHEETS FOR DRAINAGE DESIGN AND DETAILS.
2. SEE BIKEWAY PLANS FOR BIKEWAY DETAILS.



| Print Date: 6/28/2022 File Name: 400_21015_UT_Pln_42.dgn Horiz. Scale: 1"=100' Vert. Scale: As Noted Unit Information GOODBEE & ASSOCIATES, INC. | | Sheet Revisions | | | As Constructed No Revisions: Revised: Void: | CD 119 BIKEWAY UTILITY PLAN STA 5061+00 TO STA 5073+00 | | | Project No./Code Sheet Number 140 | | | | | | |
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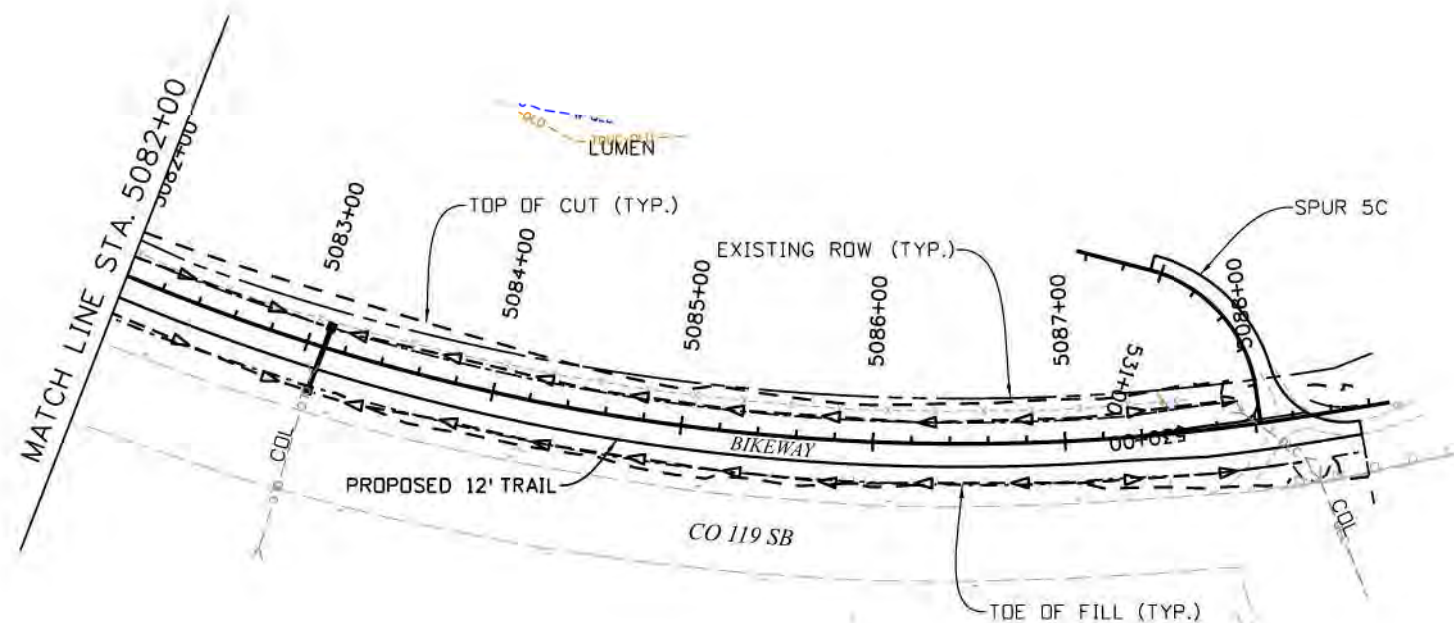
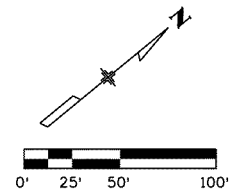
NOTES

1. SEE DRAINAGE PLAN AND PROFILE SHEETS FOR DRAINAGE DESIGN AND DETAILS.
2. SEE BIKEWAY PLANS FOR BIKEWAY DETAILS.



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| Print Date: 6/28/2022 File Name: 400_21015_UT_Pln_43.dgn Horiz. Scale: 1"=100' Vert. Scale: As Noted Unit Information GOODBEE & ASSOCIATES, INC. | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3">Sheet Revisions</th> </tr> <tr> <th style="width: 15%;">Date:</th> <th style="width: 60%;">Comments</th> <th style="width: 25%;">Init.</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table> | Sheet Revisions | | | Date: | Comments | Init. | | | | | | | | | | | As Constructed No Revisions: Revised: Void: | CD 119 BIKEWAY UTILITY PLAN STA 5073+00 TO STA 5082+00 Designer: LH Detailer: MEK Sheet Subset: UTILITY Structure Numbers Subset Sheets: UT43of 44 | Project No./Code Sheet Number 141 |
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NOTES

1. SEE DRAINAGE PLAN AND PROFILE SHEETS FOR DRAINAGE DESIGN AND DETAILS.
2. SEE BIKEWAY PLANS FOR BIKEWAY DETAILS.



Know what's below.
Call before you dig.

| | | | | | | | | | | |
|--|------|------------------------|----------|-------|-----------------------|--------------------------|-----------------------------------|-----------|------------------|------------------|
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STRUCTURAL NOTES:

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", COLORADO DEPARTMENT OF TRANSPORTATION, 2019 EDITION, AS MODIFIED BY THE PROJECT SPECIAL PROVISIONS AND THESE PLANS.
- EXCEPT AS SHOWN IN THE PLANS, STRUCTURE EXCAVATION AND BACKFILL SHALL BE IN ACCORDANCE WITH M-206-1 FOR ALL CBC'S AND M-206-2 FOR THE PEDESTRIAN BRIDGE, UNLESS NOTED OTHERWISE IN THESE PLANS.
- THE SOILS AND FOUNDATION INVESTIGATION FOR THIS PROJECT WAS PERFORMED BY GEOCAL, INC. THE SUBSURFACE CONDITIONS AND RECOMMENDATIONS FOR THE STRUCTURE PROJECT ARE CONTAINED IN A REPORT DATED XX/XX/XX.
- EXPANSION JOINT MATERIAL SHALL MEET AASHTO SPECIFICATION M213.
- ALL STRUCTURAL CONCRETE SHALL CONFORM TO CEMENTITIOUS MATERIALS REQUIREMENTS CLASS X, CORRESPONDING TO SULFATE EXPOSURE CLASS X.
- CLEAR COVER FROM THE FACE OF CONCRETE TO THE FACE OF REINFORCEMENT SHALL BE 2 INCHES, UNLESS NOTED OTHERWISE.
- Ⓝ DENOTES NON-EPOXY COATED (BLACK) REINFORCING STEEL.
- ALL REINFORCING STEEL SHALL BE EPOXY COATED UNLESS OTHERWISE NOTED.
- SPLICE LOCATIONS ARE BASED ON AN ASSUMED 60' STOCK LENGTH. SPLICE LOCATIONS NOT SHOWN HEREIN SHALL BE APPROVED BY THE ENGINEER. SPLICES SHALL BE ALTERNATELY STAGGERED UNLESS NOTED OTHERWISE.
- ALL CONSTRUCTION JOINTS SHALL BE THOROUGHLY CLEANED AND ROUGHENED BEFORE FRESH CONCRETE IS PLACED.
- EXPOSED OUTSIDE CORNERS SHALL RECEIVE A 3/4" CHAMFER, UNLESS NOTED OTHERWISE.
- THE CONTRACTOR SHALL NOT BACKFILL STRUCTURES UNTIL WALLS HAVE REACHED 80 PERCENT OF F'c.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STABILITY OF THE STRUCTURE DURING CONSTRUCTION.
- THE INFORMATION SHOWN ON THESE PLANS CONCERNING THE TYPE AND LOCATION OF UNDERGROUND UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. THE CONTRACTOR SHALL CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO AT 811 AT LEAST 2 DAYS (NOT INCLUDING THE DAY OF NOTIFICATION) PRIOR TO ANY EXCAVATION OR OTHER EARTHWORK.
- STATIONS, ELEVATIONS, AND DIMENSIONS CONTAINED IN THESE PLANS ARE CALCULATED FROM A RECENT FIELD SURVEY. THE CONTRACTOR SHALL VERIFY ALL DEPENDENT DIMENSIONS IN THE FIELD BEFORE ORDERING OR FABRICATING ANY MATERIAL.
- ALL LONGITUDINAL AND TRANSVERSE DIMENSIONS ARE MEASURED HORIZONTALLY AND INCLUDE NO CORRECTION FOR GRADE.
- THE USE OF TEMPORARY CASING AND DEWATERING DURING MICROPILE CONSTRUCTION MAY BE REQUIRED.
- EXPOSED CONCRETE SURFACES SHALL RECEIVE NATINA CONCRETE STAIN, OR APPROVED EQUAL, 1'-0" BELOW FINISHED GRADE, UNLESS STONE VENEER IS SPECIFIED.
- CAST-IN-PLACE CONCRETE FOR ABUTMENTS, WINGWALLS, HEADWALLS, AND TOEWALLS SHALL BE CLASS D, F'C=4,500 PSI.

BRIDGE NOTES:

- BRIDGE SHALL BE SINGLE (CLEAR) SPAN PREFABRICATED STEEL TRUSS BRIDGES, PER SPECIFICATIONS.
- BRIDGE SHALL BE MANUFACTURED WITH A FINAL CAMBER AS SHOWN ON THE GENERAL LAYOUT DRAWINGS.
- ABUTMENTS HAVE BEEN DESIGNED WITH A DIMENSION FROM THE TRAIL ELEVATION TO THE BRIDGE SEAT ELEVATION. THE BRIDGE SHALL BE MANUFACTURED TO COMPLY WITH THIS GEOMETRY.

DESIGN DATA:

AASHTO LRFD BRIDGE SPECIFICATIONS 2020, 9TH EDITION AND CDOT BRIDGE DESIGN MANUAL 2021.

DESIGN METHOD: LOAD AND RESISTANCE FACTOR DESIGN

PEDESTRIAN LIVE LOAD: 90 PSF
 VEHICULAR LIVE LOAD: H10 TRUCK
 WIND LOAD: 115 MPH (3 SEC GUST)

PEDESTRIAN RAIL LOAD: 50P/F + 200LBS CONCENTRATED

DEAD LOAD: SELF-WT AND WEIGHT OF SOIL OVERBURDEN (WHERE APPLICABLE)

LIVE LOAD SURCHARGE: 2'-0" OF EARTH FILL

REINFORCED CONCRETE:
 CDOT CLASS G: F'c = 4,500 PSI
 CDOT CLASS D: F'c = 4,500 PSI

REINFORCING STEEL: Fy = 60,000 PSI

STRUCTURAL STEEL:
 HSS SECTIONS: ASTM A847 Fy = 50,000PSI
 OTHER SHAPES: ASTM A709 GRADE 50W Fy = 50,000PSI
 PLATES AND BARS: ASTM A709 GRADE 50W Fy = 50,000PSI

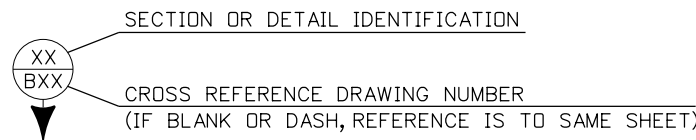
SOIL PARAMETERS:
 UNIT WEIGHT: 135 PCF STR. BACKFILL (CLASS 1)
 EQUIV FLUID PRESSURES: 40 PCF (ACTIVE)
 55 PCF (AT-REST)

STRUCTURAL DESCRIPTIONS:

CBC EXTENSIONS:
 CAST-IN-PLACE CONCRETE BOX CULVERT TO MATCH EXISTING SPAN AND RISE WITH CAST-IN-PLACE WINGWALLS AND TOEWALLS.

CBC UNDERPASSES:
 16'x10' CAST-IN-PLACE CONCRETE BOX CULVERT WITH CAST-IN-PLACE WINGWALLS.

BRIDGE OVER LEFT HAND CREEK:
 SINGLE SPAN PEDESTRIAN BRIDGE (140'-0") CL BRG TO CL BRG
 PREFABRICATED STEEL BRIDGE, 14'-0" CLEAR WIDTH CONCRETE DECK.



INDEX OF DRAWINGS:

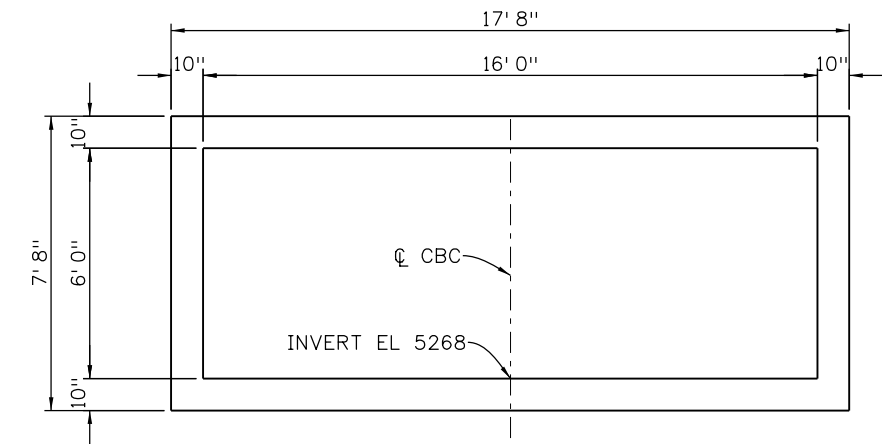
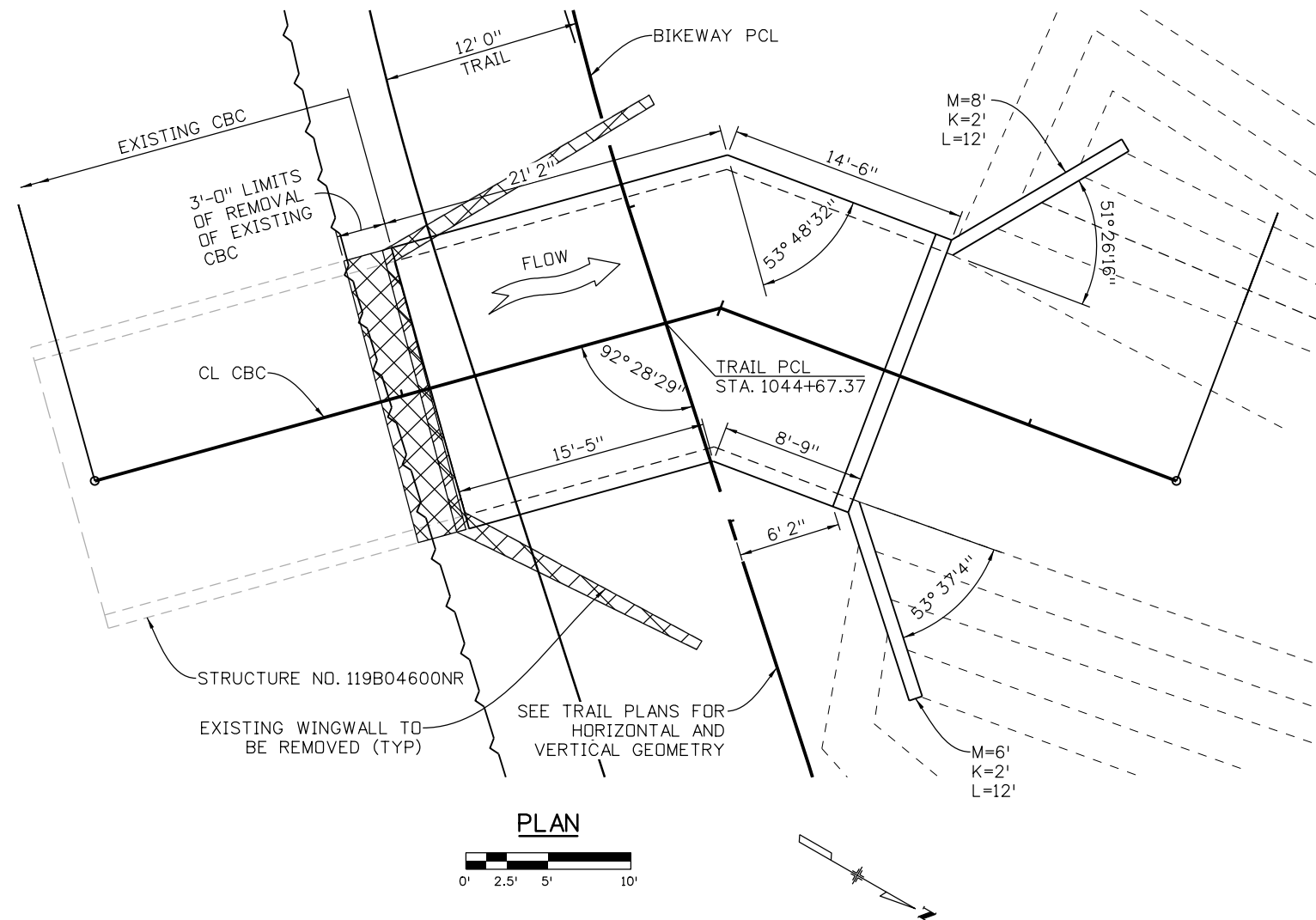
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| | CBC PLANS |
| S02 | CBC 1 - STA. 1044+67.37 |
| S03 | CBC 2 - STA. 1082+22.64 |
| S04 | CBC 3 - STA. 2031+19.94 |
| S05 | CBC 4 - STA. 2079+39.30 |
| | UNDERPASS PLANS |
| S06 | UNDERPASS A - SOUTH OF JAY |
| S07 | UNDERPASS B - JAY |
| S08 | UNDERPASS C - 63RD |
| S09 | UNDERPASS D - CD 52 |
| S10 | UNDERPASS E - NIWOT ROAD |
| S11 | UNDERPASS F - CONNECTOR ROAD |
| | PEDESTRIAN BRIDGE PLANS |
| S12 | PEDESTRIAN BRIDGE - 4 MILE CANYON CREEK |
| S13 | PEDESTRIAN BRIDGE - LEFT HAND CREEK |
| | DETAILS |
| S14 | RETAINING WALL DETAILS |
| S15 | SAFETY RAIL (CABLE) DETAILS |

ARCHITECTURAL TREATMENTS:

TO BE DETERMINED

| | | | | | | | | | |
|---|---|-----------------|----------|-------|----------------------|------------------|---------------------|--------------------------|------------------|
| All seals for this set of drawings are applied to the cover page(s) | Print Date: 6/28/2022 | Sheet Revisions | | | | As Constructed | CD 119 BIKEWAY | | Project No./Code |
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| | Unit Information | | | | | Void: | Detailer: SH | Subset Sheets: S01 of 15 | |
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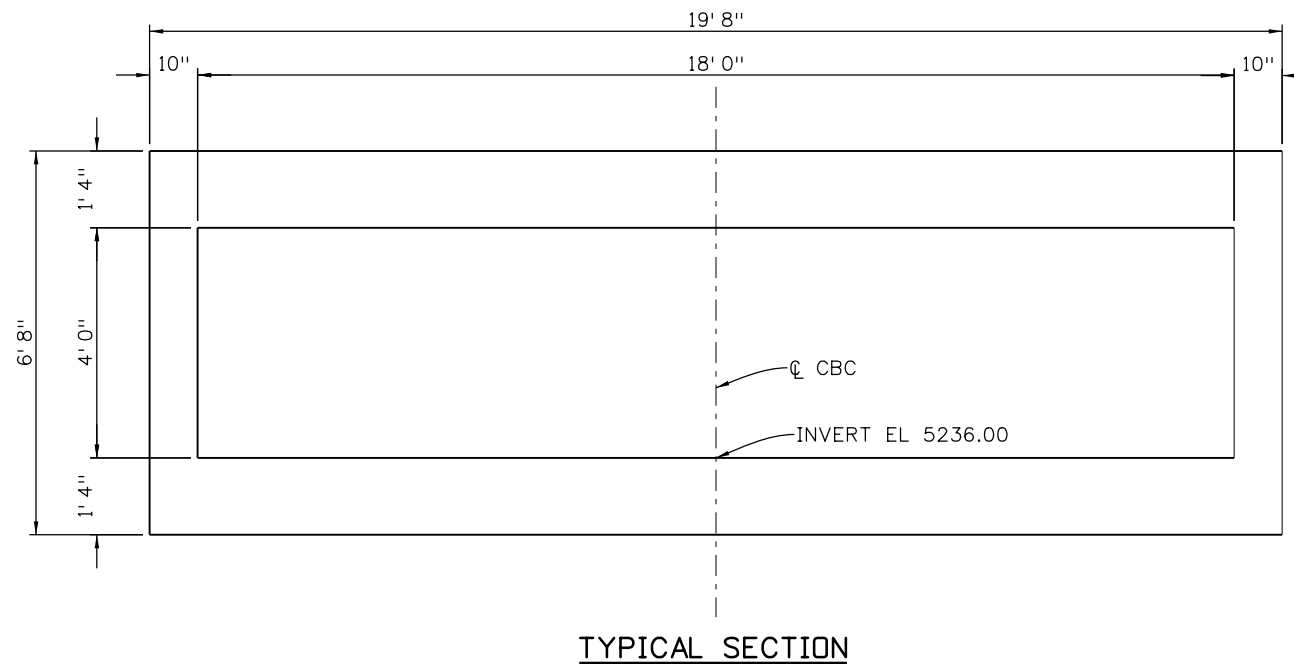
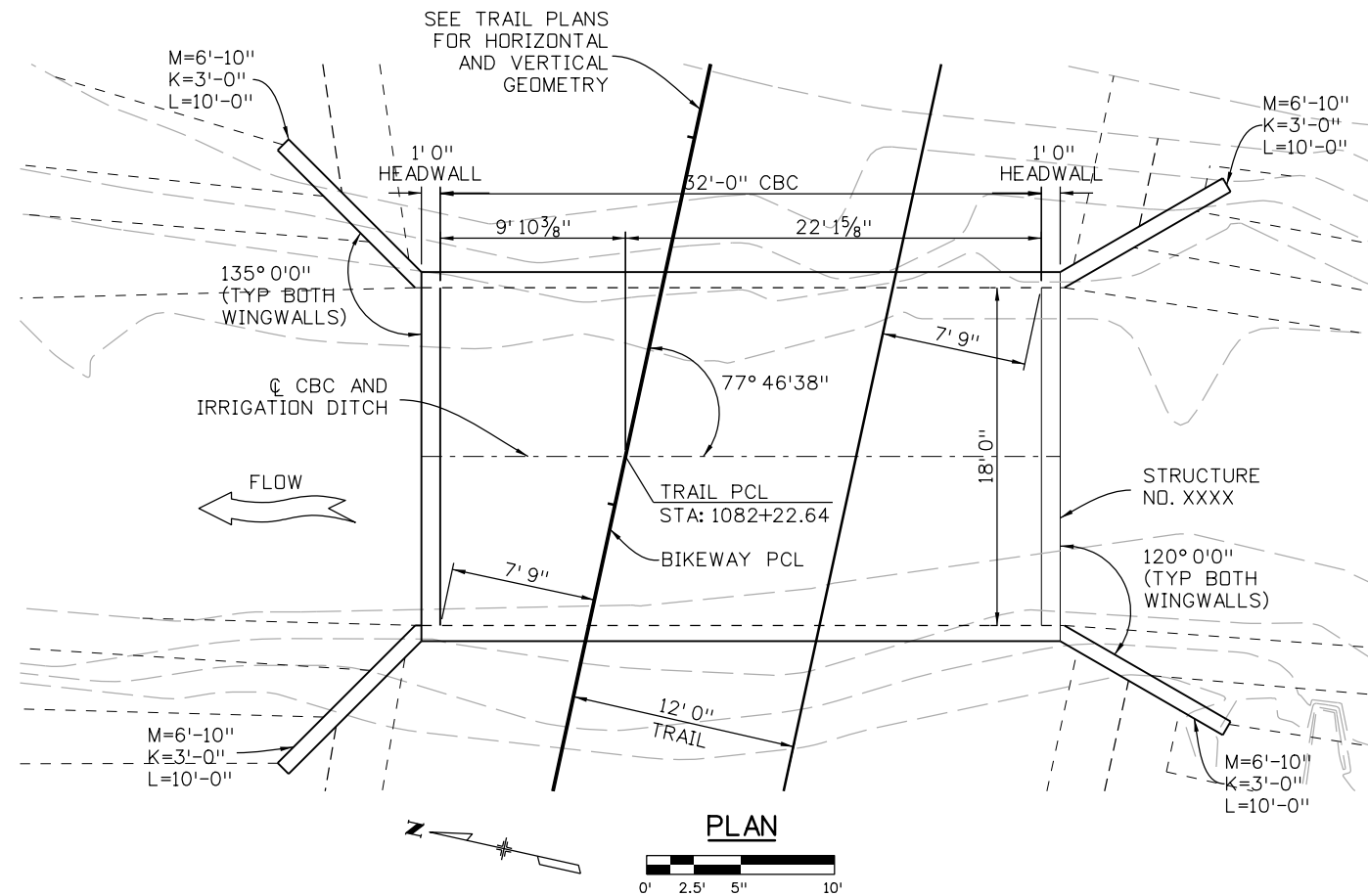
NOTES:

1. SEE M-601-1 FOR CULVERT EXTENSION DIMENSIONS AND REINFORCEMENT DETAILS.
2. SEE M-601-20 FOR WINGWALL DIMENSIONS AND REINFORCEMENT DETAILS.
3. SEE M-601-20 FOR WINGWALL DRAINAGE AND LIMITS OF CONCRETE SEALER DETAILS.
4. SAFETY RAIL (CABLE) WILL BE MOUNTED ON TOP OF HEADWALL AND WINGWALLS, BUT IS NOT SHOWN FOR CLARITY.

| All seals for this set of drawings are applied to the cover page(s) | Print Date: 6/28/2022 | <table border="1"> <thead> <tr> <th colspan="3">Sheet Revisions</th> </tr> <tr> <th>Date:</th> <th>Comments</th> <th>Init.</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table> | | | Sheet Revisions | | | Date: | Comments | Init. | | | | | | | | | | | | | As Constructed | | CD 119 BIKEWAY | | Project No./Code |
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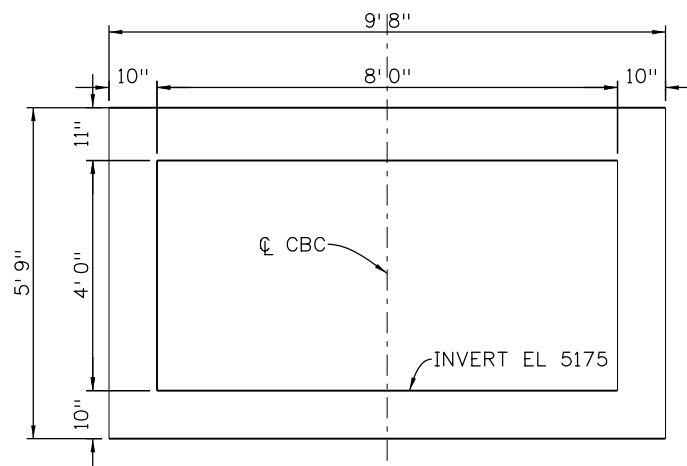
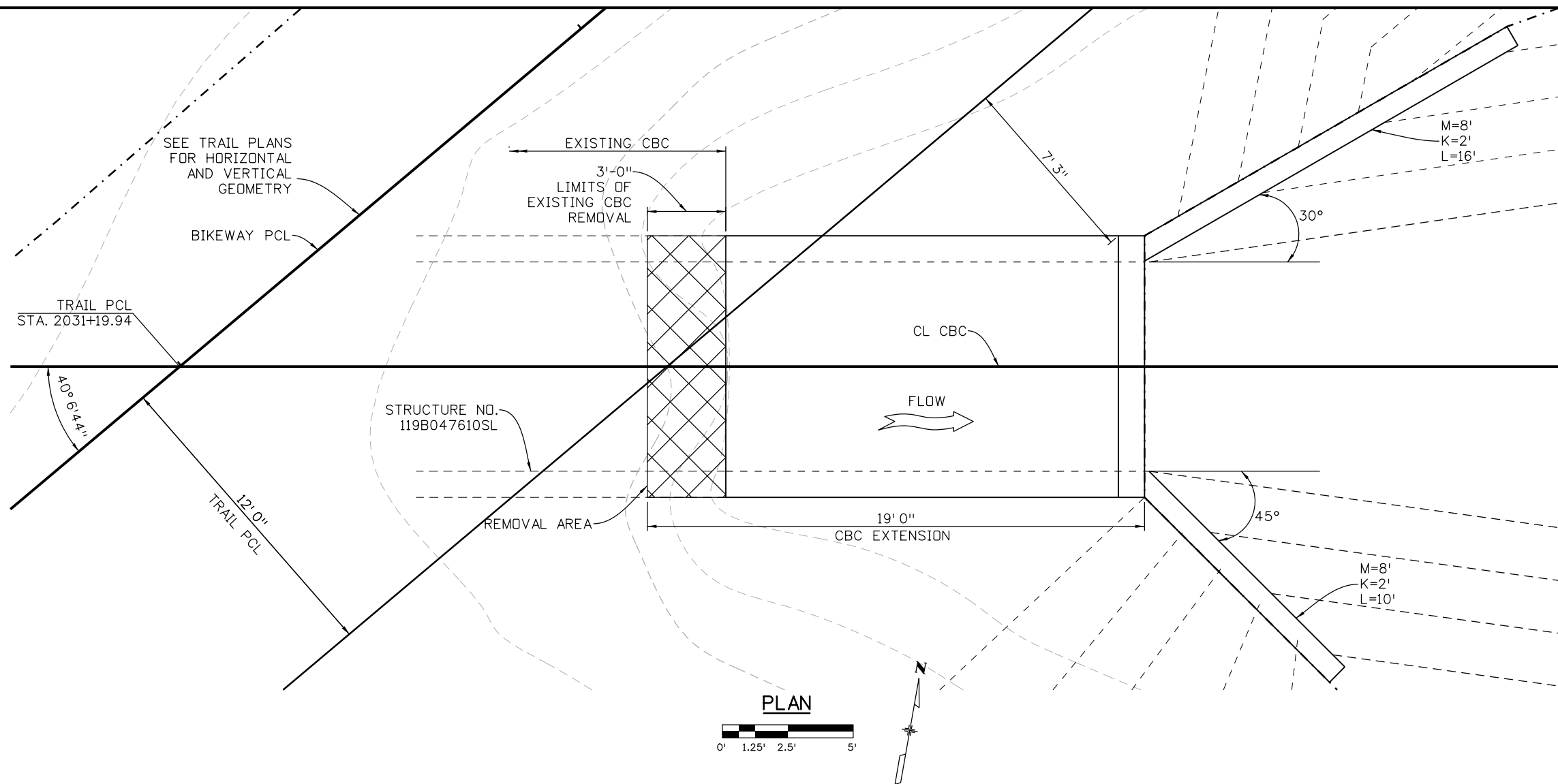
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NOTES:

- SEE M-601-1 FOR CULVERT EXTENSION DIMENSIONS AND REINFORCEMENT DETAILS.
- SEE M-60120 FOR WINGWALL DIMENSIONS AND REINFORCEMENT DETAILS.
- SEE M-601-20 FOR WINGWALL DRAINAGE AND LIMITS OF CONCRETE SEALER DETAILS.
- SAFETY RAIL (CABLE) WILL BE MOUNTED ON TOP OF HEADWALL AND WINGWALLS, BUT IS NOT SHOWN FOR CLARITY.

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TYPICAL SECTION

NOTES:

1. SEE M-601-1 FOR CULVERT EXTENSION DIMENSIONS AND REINFORCEMENT DETAILS.
2. SEE M-601-20 FOR WINGWALL DIMENSIONS AND REINFORCEMENT DETAILS.
3. SEE M-601-20 FOR WINGWALL DRAINAGE AND LIMITS OF CONCRETE SEALER DETAILS.
4. SAFETY RAIL (CABLE) WILL BE MOUNTED ON TOP OF HEADWALL AND WINGWALLS, BUT IS NOT SHOWN FOR CLARITY.

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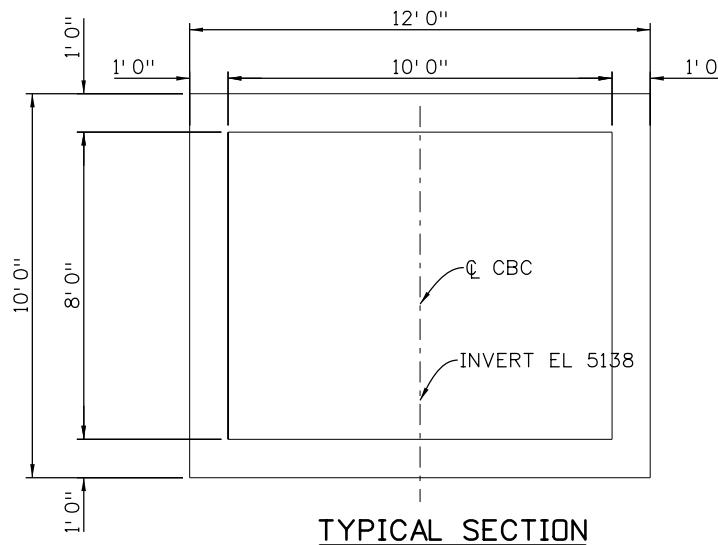
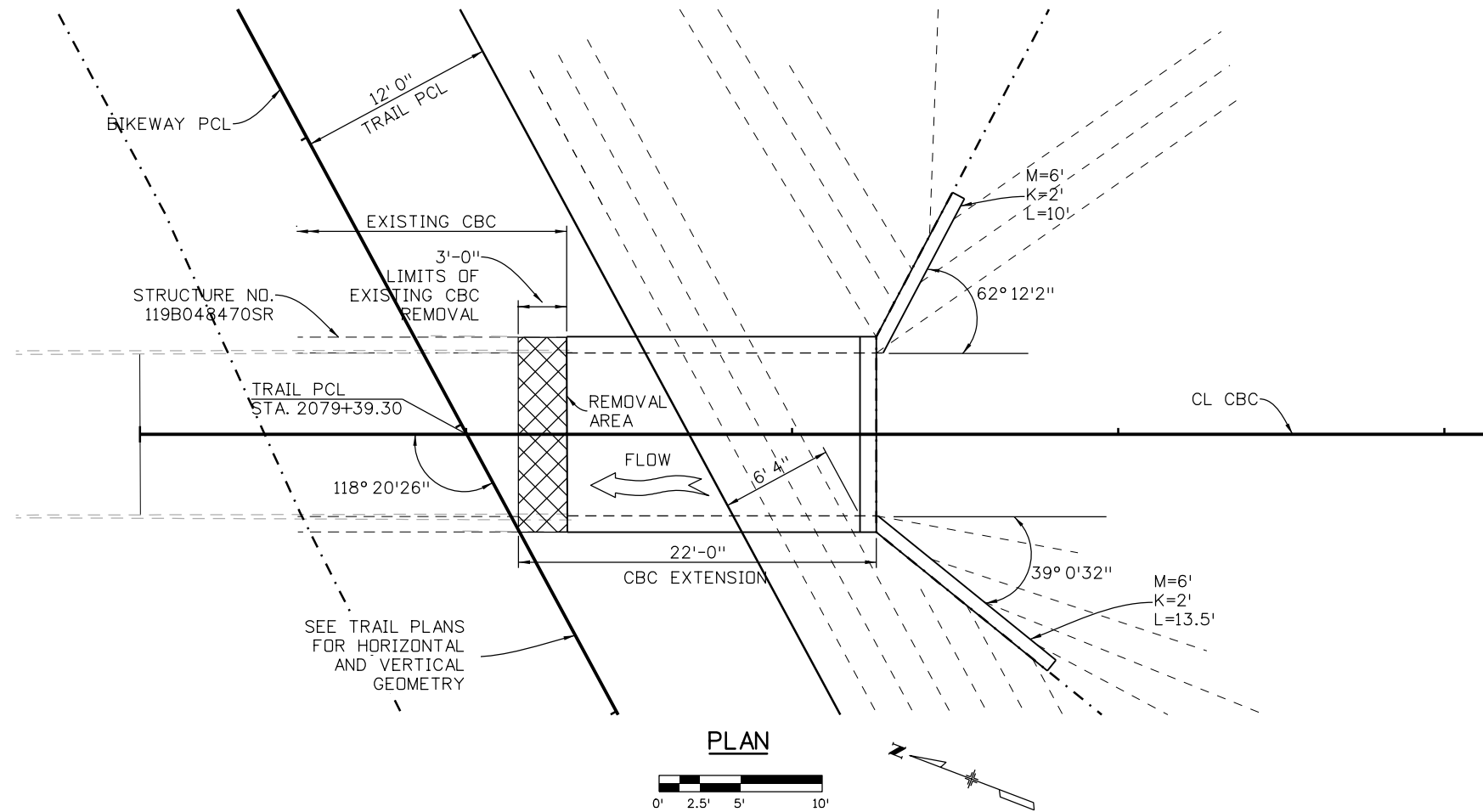
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| Revised: | STA. 2031+19.94 |
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| Project No./Code |
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| Sheet Number 146 |

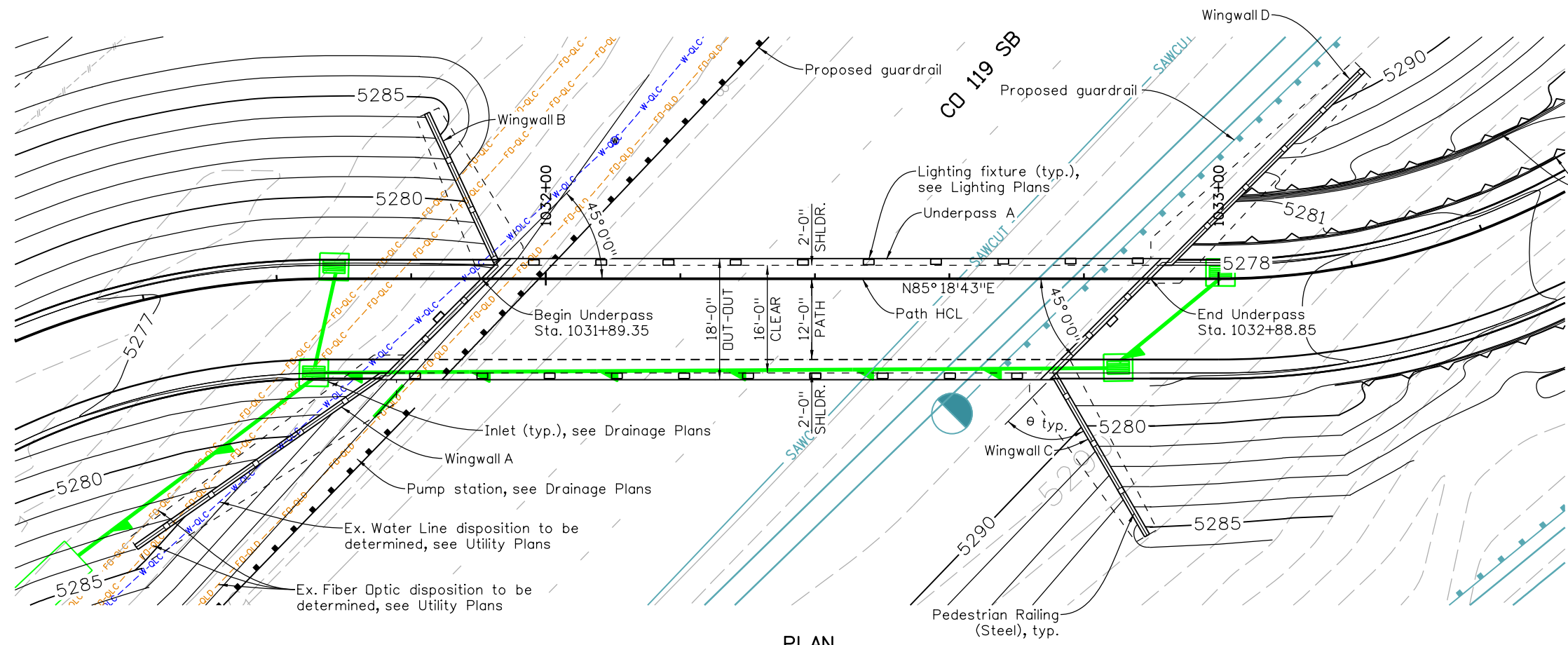
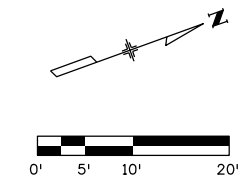
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NOTES:

1. SEE M-601-1 FOR CULVERT EXTENSION DIMENSIONS AND REINFORCEMENT DETAILS.
2. SEE M-601-20 FOR WINGWALL DIMENSIONS AND REINFORCEMENT DETAILS.
3. SEE M-601-20 FOR WINGWALL DRAINAGE AND LIMITS OF CONCRETE SEALER DETAILS.
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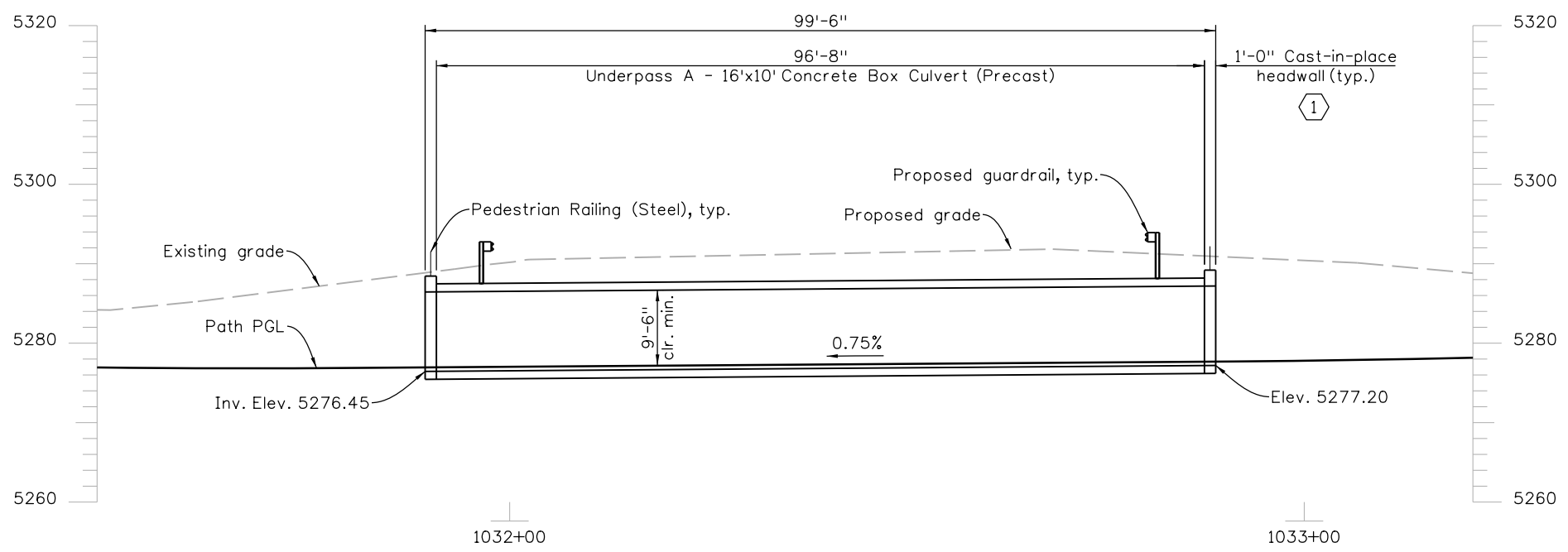


PLAN

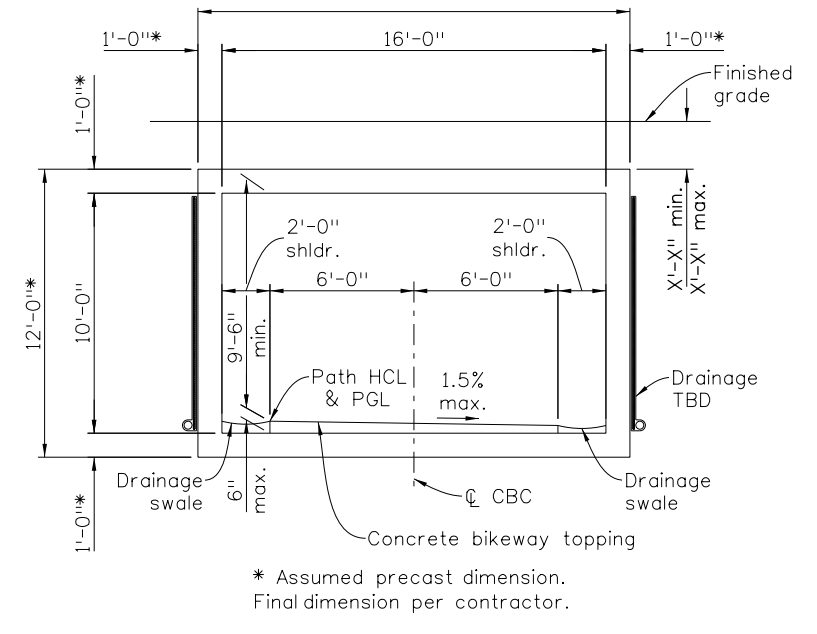
WINGWALL DATA

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| B | 70° 0' 0" | 24'-0" | 11'-6" | 3'-6" |
| C | 75° 0' 0" | 27'-0" | 11'-6" | 3'-6" |
| D | 0° 0' 0" | 40'-0" | 11'-6" | 3'-6" |

- KEY NOTES:**
- ① Measured perpendicular to headwall.



SECTION
(Taken at Path HCL)



TYPICAL SECTION
(Looking ahead station)

Michael Carlson 3:20:31 PM p:\mullereng-pw\Documents\2021 Projects\21-015.01 CO 119 Bikeway\01 Pre-Construction\Sheets\620_21015_SB_UP A Gen Lay.dgn

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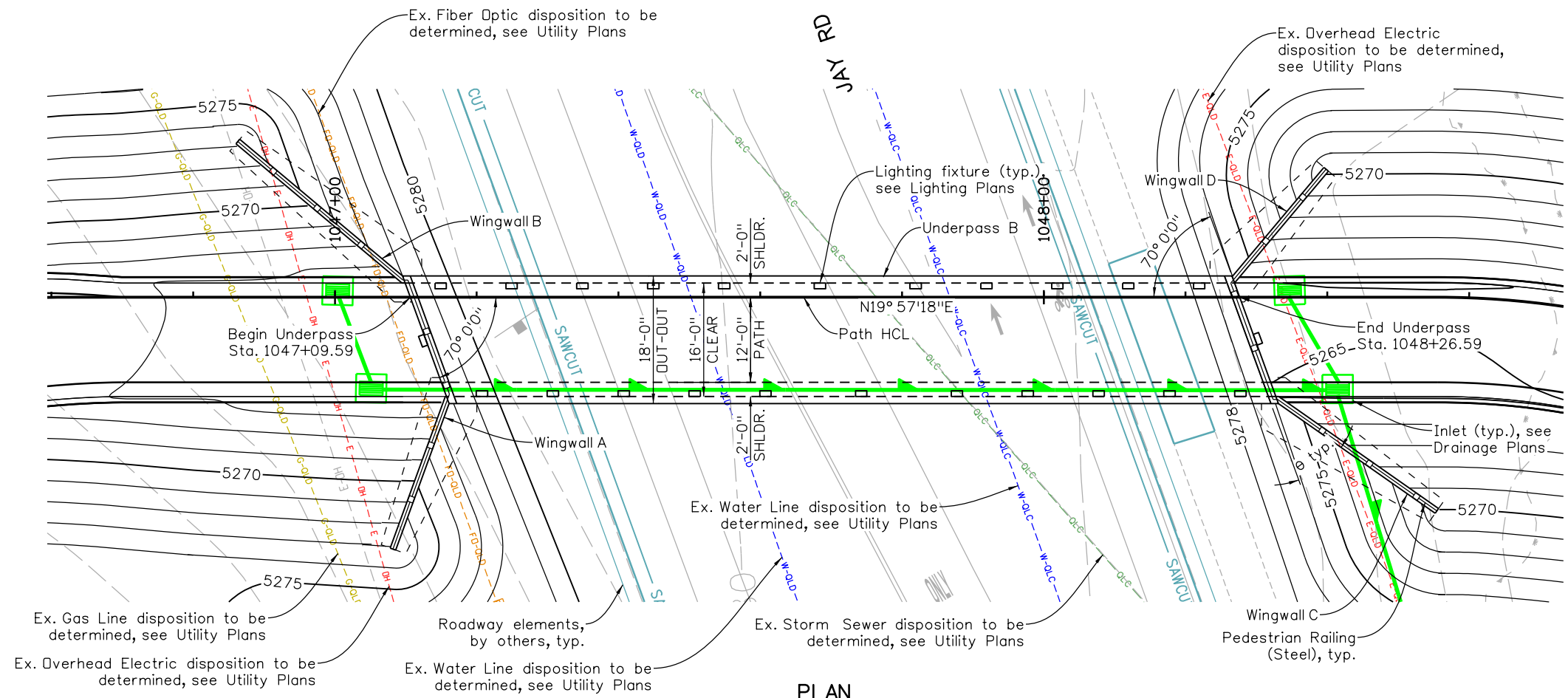
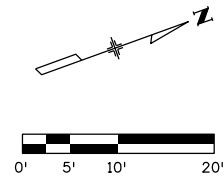
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CD 119 BIKEWAY
GENERAL LAYOUT
UNDERPASS A (S.B. CO. 119)
 Designer: D. Graff
 Detailer: S. Florian
 Sheet Subset: STRUCTURAL
 Subset Sheets: S6 of 15

Project No./Code
 Sheet Number **148**

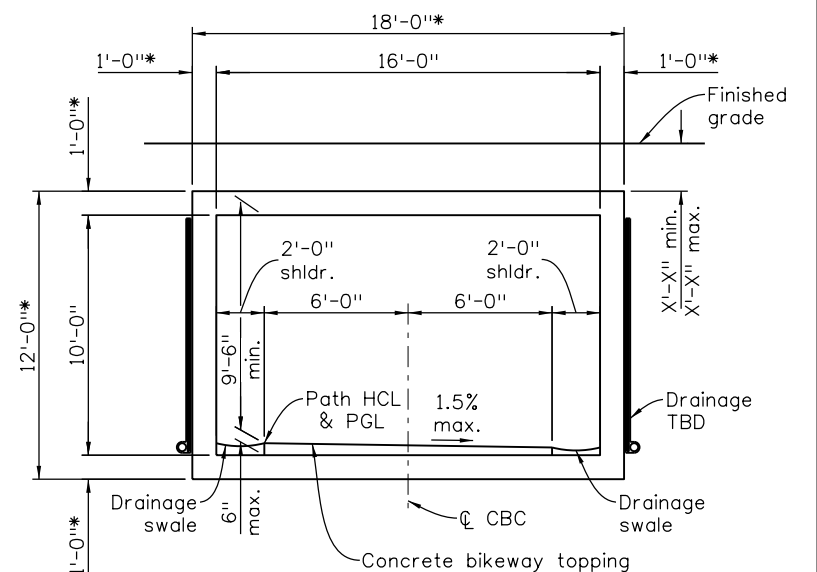
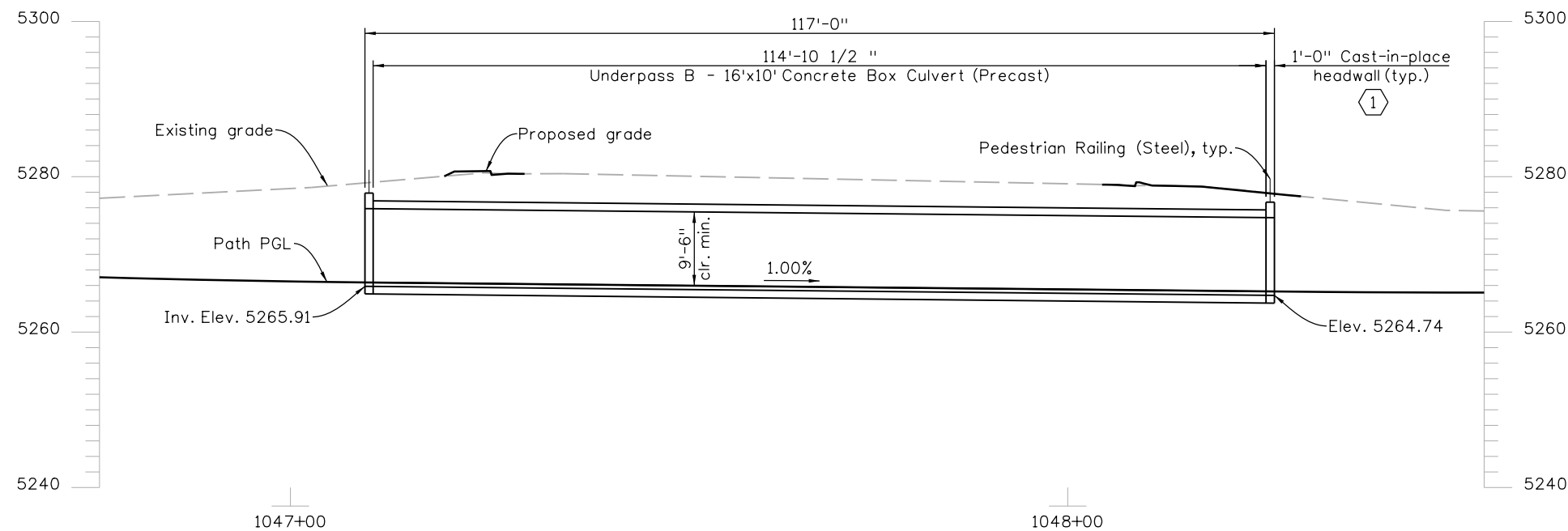


WINGWALL DATA

| ID | θ | L | m | k |
|----|-----------|--------|--------|-------|
| A | 40° 0' 0" | 22'-0" | 11'-6" | 3'-6" |
| B | 30° 0' 0" | 30'-0" | 11'-6" | 3'-6" |
| C | 30° 0' 0" | 27'-0" | 11'-6" | 3'-6" |
| D | 60° 0' 0" | 20'-0" | 11'-6" | 3'-6" |

KEY NOTES:

- ① Measured perpendicular to headwall.



* Assumed precast dimension. Final dimension per contractor.

PLAN

SECTION
(Taken at Path HCL)

TYPICAL SECTION
(Looking ahead station)

Michael Carlson 3:21:09 PM pw:\mullereng-pw.bentley.com\mullereng-pw-01\Documents\2021\Projects\21-015-01 CO 119 Bikeway\01.Pre-Construction\Sheets\620_21015_SB_UP_B Gen Lay.dgn

All seals for this set of drawings are applied to the cover page(s)

Print Date: 6/28/2022
 File Name: 620_21015_SB_UP B Gen Lay.dgn
 Horiz. Scale: 1"=20' Vert. Scale: As Noted
 Unit Information

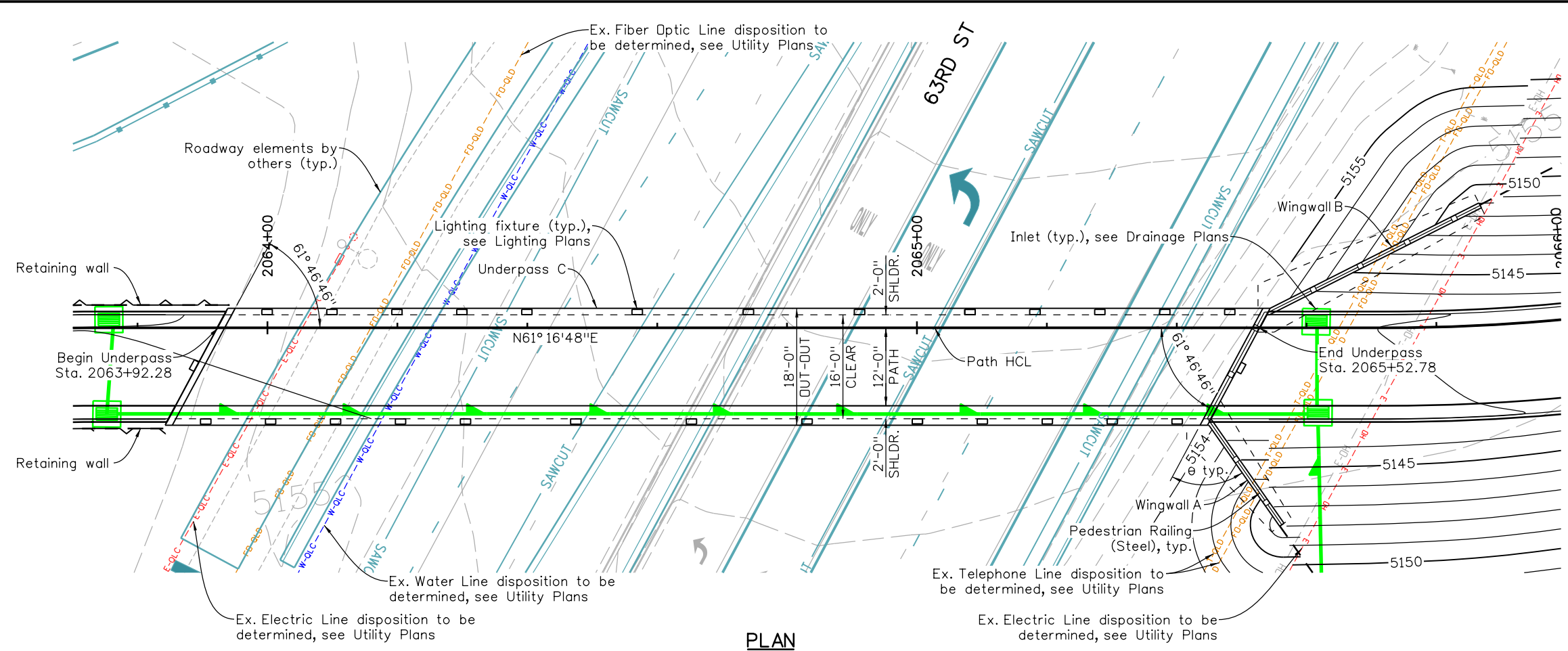
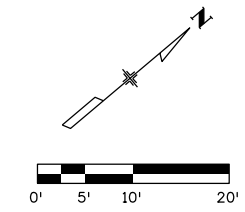
| Sheet Revisions | | |
|-----------------|----------|-------|
| Date: | Comments | Init. |
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As Constructed
 No Revisions:
 Revised:
 Void:

CD 119 BIKEWAY
**GENERAL LAYOUT
 UNDERPASS B (JAY RD.)**
 Designer: D. Graff
 Detailer: S. Florian
 Sheet Subset: STRUCTURAL
 Subset Sheets: S7 of 15

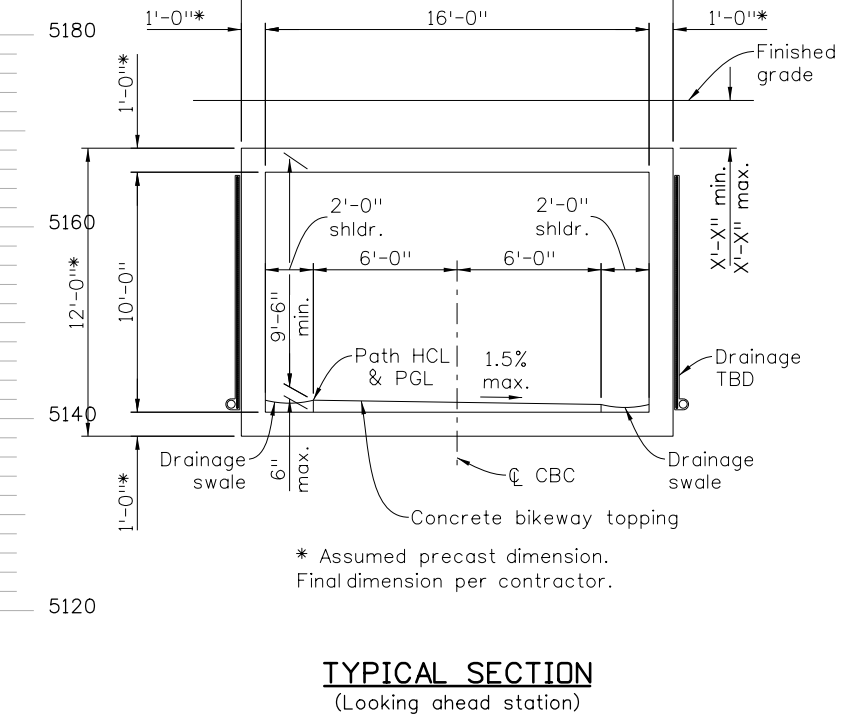
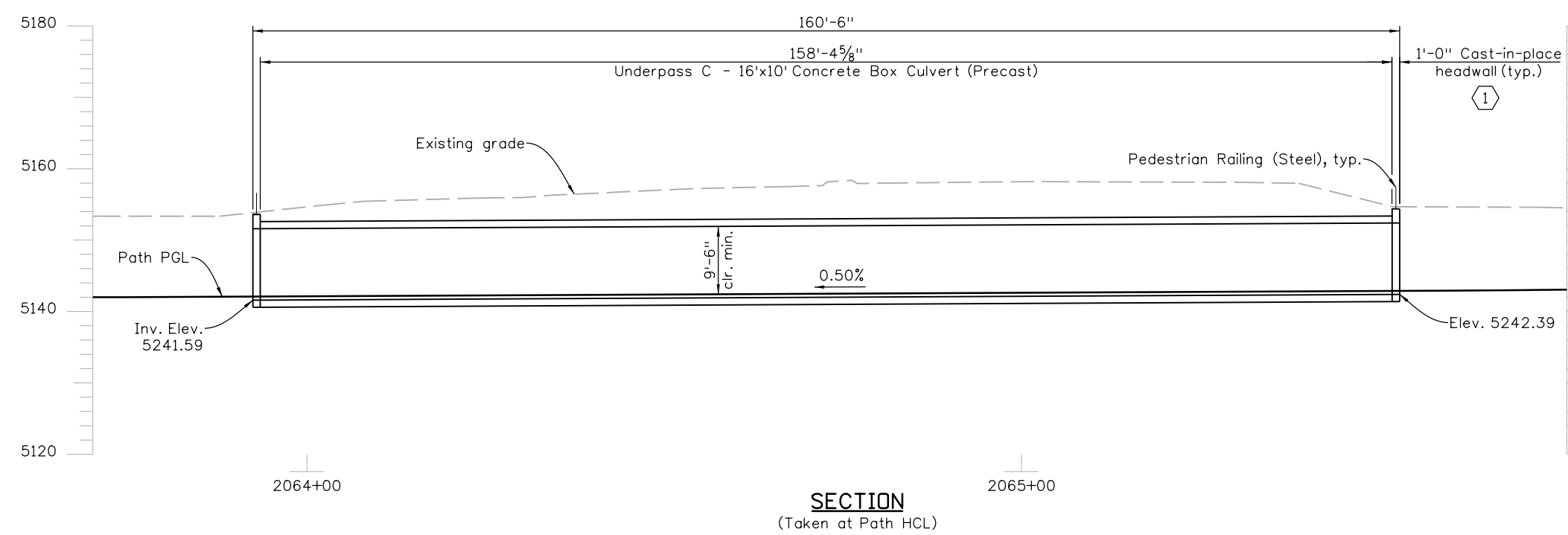
Project No./Code
 Sheet Number **149**



WINGWALL DATA

| ID | θ | L | m | k |
|----|-------------|--------|--------|-------|
| A | 63° 13' 14" | 19'-0" | 11'-6" | 3'-6" |
| B | 35° 0' 0" | 36'-0" | 11'-6" | 3'-6" |

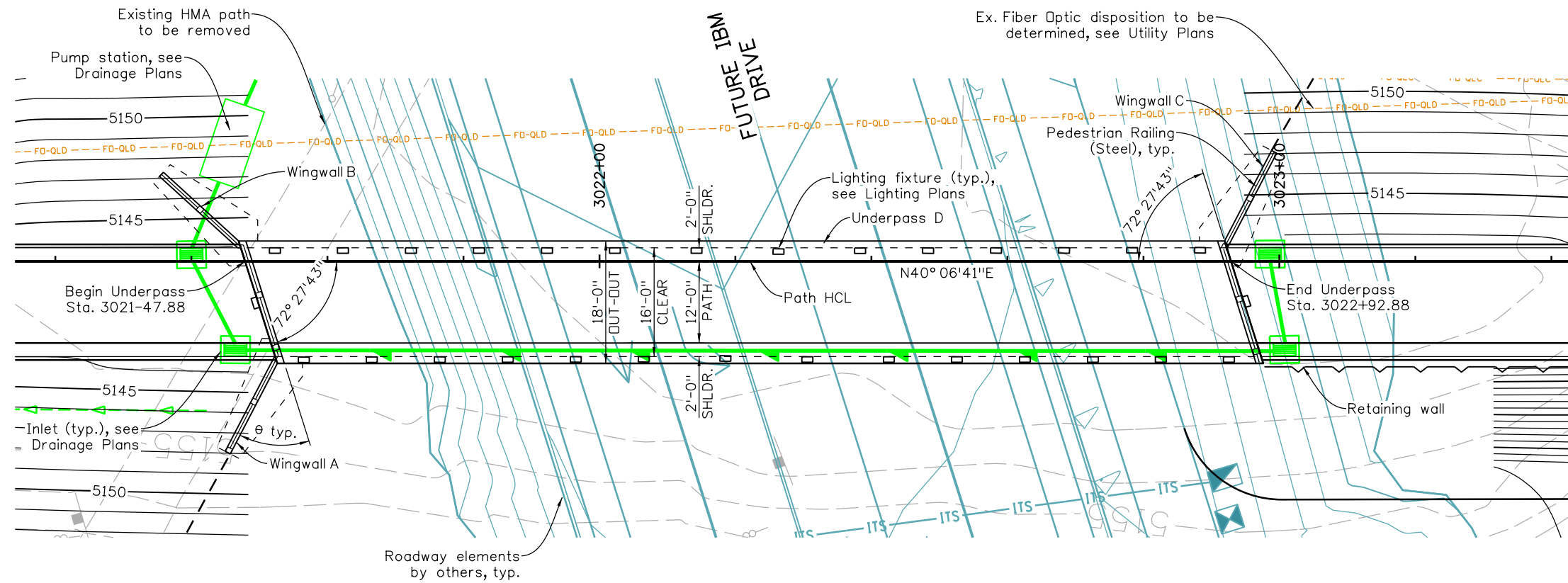
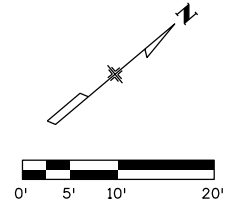
KEY NOTES:
 ① Measured perpendicular to headwall.



* Assumed precast dimension. Final dimension per contractor.

Michael Carlson 3:21:47 PM pw:\mullereng-pw.bentley.com\mullereng-pw-01\Documents\2021\Projects\21-015.01 CO 119 Bikeway\01 Pre-Construction\Sheets\620_21015_SB_UP C Gen Lay.dgn

| All seals for this set of drawings are applied to the cover page(s) | Print Date: 6/28/2022 File Name: 620_21015_SB_UP C Gen Lay.dgn | Sheet Revisions <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Date:</th> <th>Comments</th> <th>Init.</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table> | Date: | Comments | Init. | | | | | | | | | | | As Constructed No Revisions: Revised: Void: | CD 119 BIKEWAY GENERAL LAYOUT UNDERPASS C (63RD. ST.) | Project No./Code Sheet Subset: STRUCTURAL Subset Sheets: S8 of 15 |
|---|---|--|-------------------------|----------|-------|--|--|--|--|--|--|--|--|--|--|--|--|---|
| | Date: | | Comments | Init. | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | | | |
| Horiz. Scale: 1"=20' Vert. Scale: As Noted Unit Information | | Designer: D. Graff Detailer: S. Florian | Sheet Number 150 | | | | | | | | | | | | | | | |
| Inv. Elev. 5241.59 | Elev. 5242.39 | Structure Numbers | Sheet Number 150 | | | | | | | | | | | | | | | |



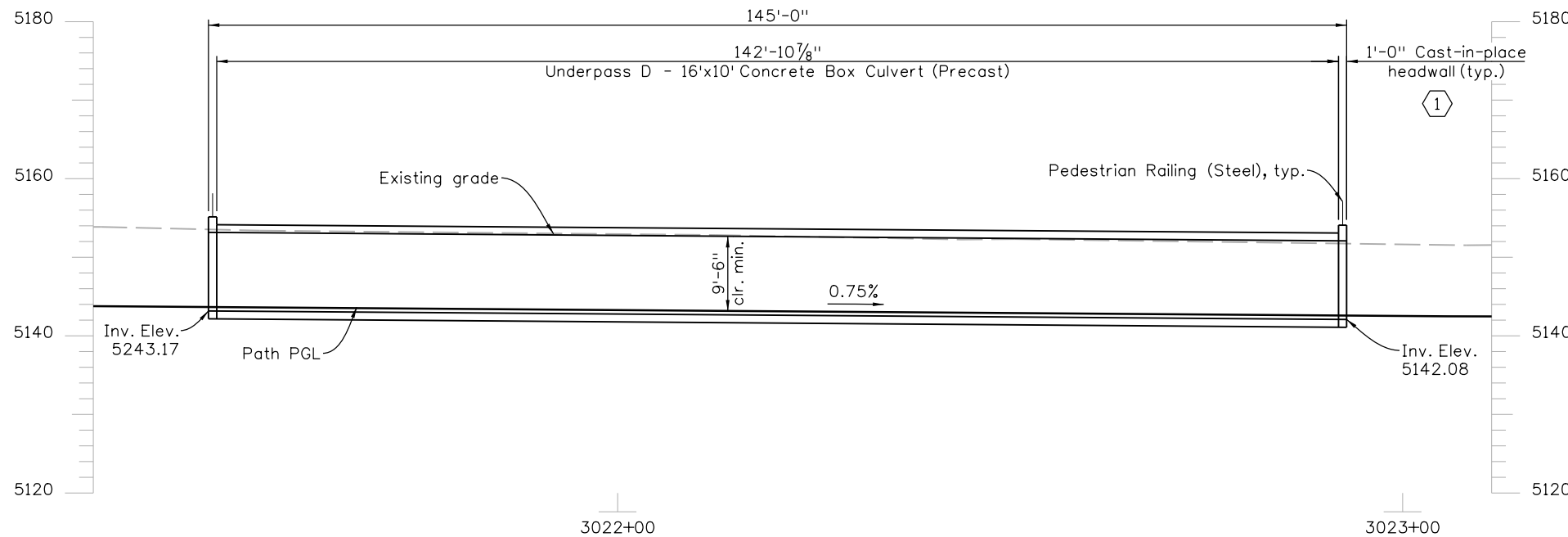
PLAN

WINGWALL DATA

| ID | θ | L | m | k |
|----|-----------|--------|--------|-------|
| A | 45° 0' 0" | 15'-0" | 11'-6" | 3'-6" |
| B | 45° 0' 0" | 15'-0" | 11'-6" | 3'-6" |
| C | 45° 0' 0" | 15'-0" | 11'-6" | 3'-6" |

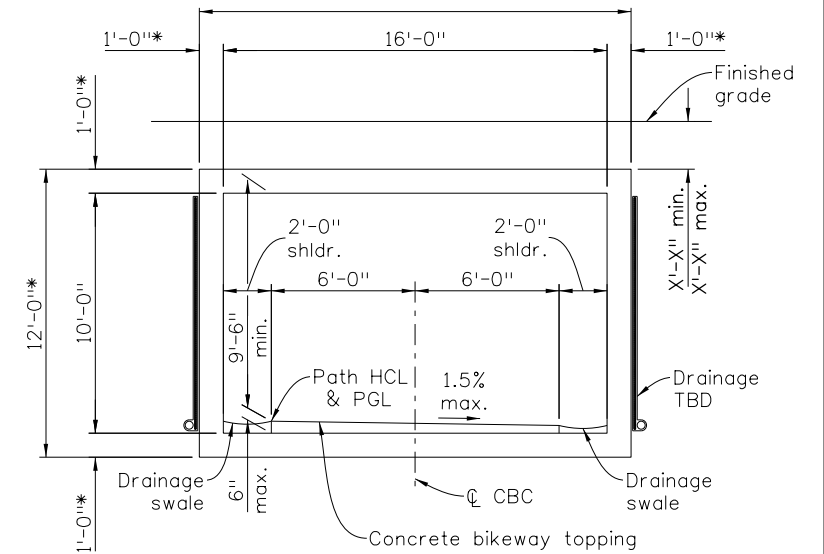
KEY NOTES:

- ① Measured perpendicular to headwall.



SECTION

(Taken at Path HCL)



TYPICAL SECTION

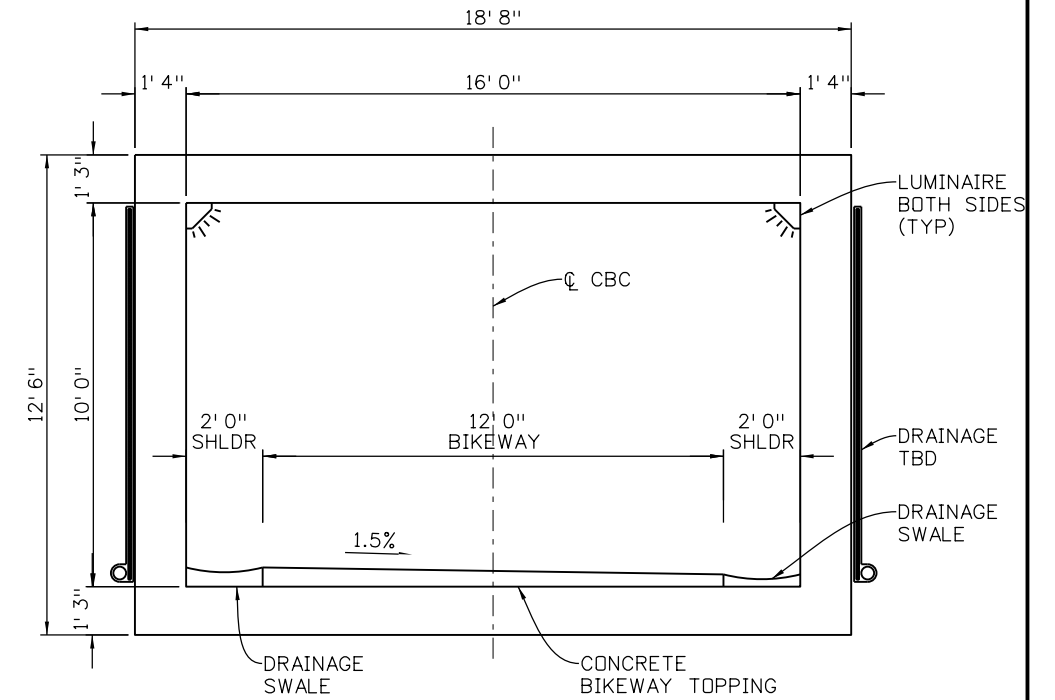
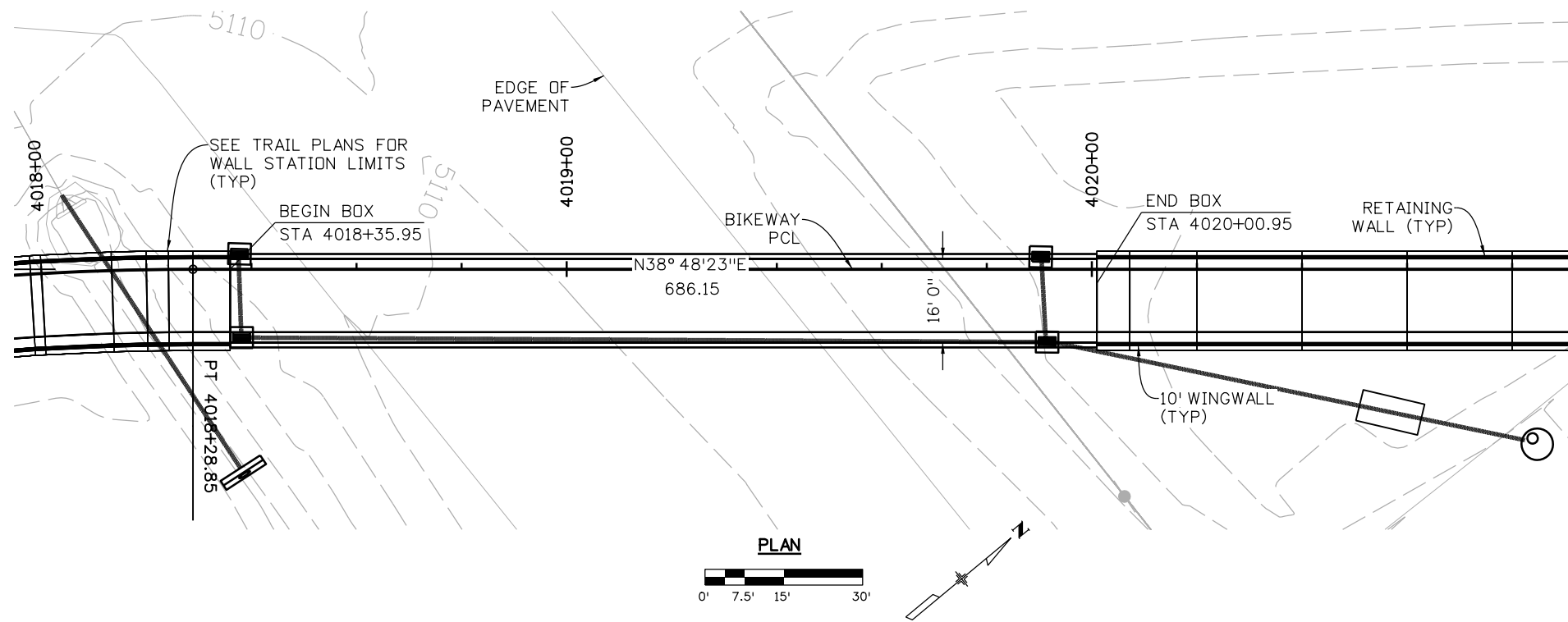
(Looking ahead station)

* Assumed precast dimension. Final dimension per contractor.

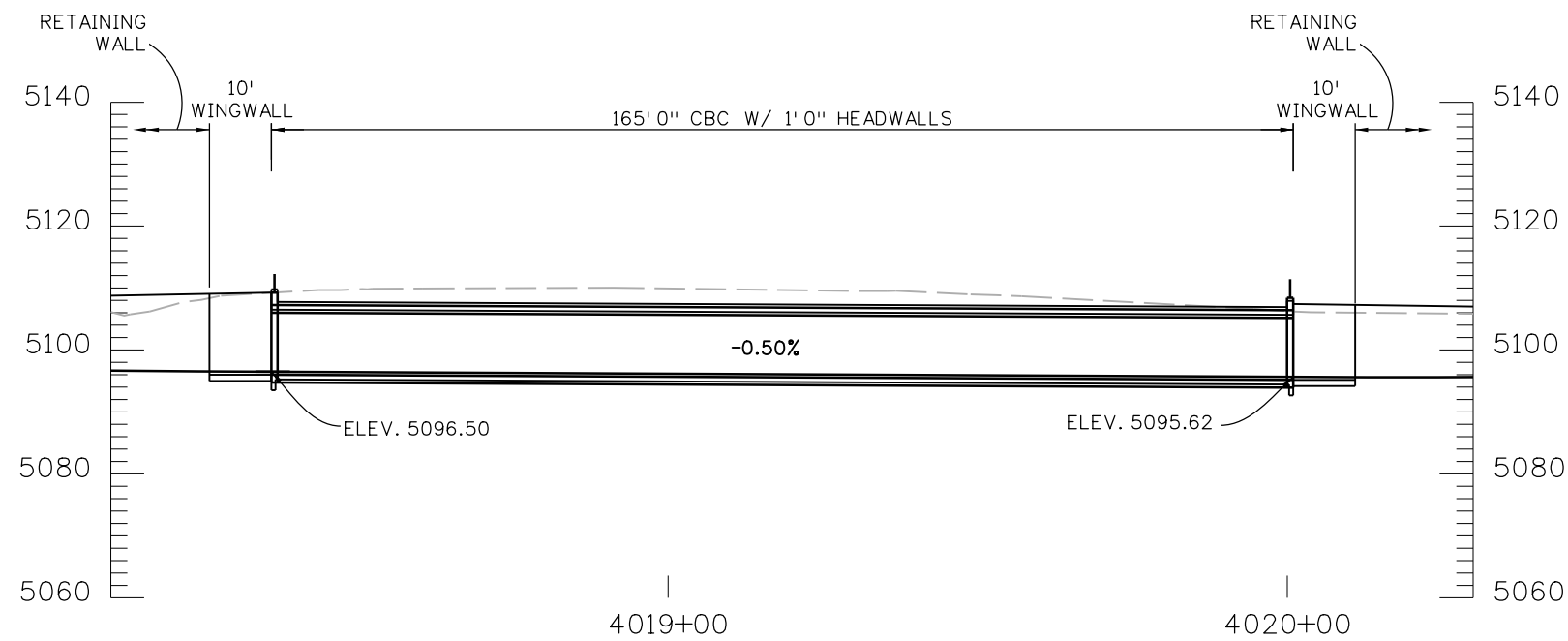
Michael Carlson 3:22:33 PM pw:\mullereng-pw-01\Documents\2021 Projects\21-015.01 CO 119 Bikeway\01 Pre-Construction\...Sheets\620_21015_SB_UP D Gen Lay.dgn

| All seals for this set of drawings are applied to the cover page(s) | Print Date: 6/28/2022 File Name: 620_21015_SB_UP D Gen Lay.dgn Horiz. Scale: 1"=20' Vert. Scale: As Noted Unit Information | Sheet Revisions <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Date:</th> <th>Comments</th> <th>Init.</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table> | Date: | Comments | Init. | | | | | | | | | | | As Constructed No Revisions: Revised: Void: | CD 119 BIKEWAY GENERAL LAYOUT UNDERPASS D (CD. 52) | Project No./Code Designer: D. Graff Detailer: S. Florian Sheet Subset: STRUCTURAL Subset Sheets: S9 of 15 |
|---|--|--|-------|----------|-------|--|--|--|--|--|--|--|--|--|--|--|--|---|
| | Date: | Comments | Init. | | | | | | | | | | | | | | | |
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| | Sheet Number 151 | | | | | | | | | | | | | | | | | |

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**TYPICAL SECTION
(LOOKING UPSTATION)**



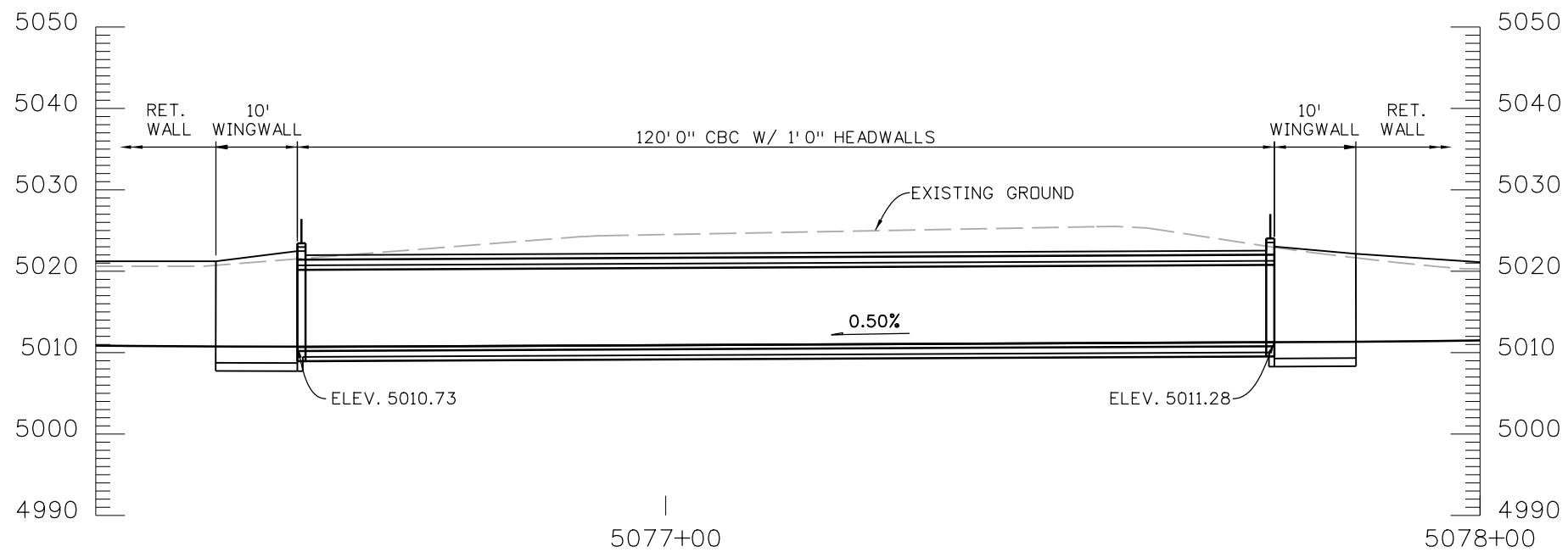
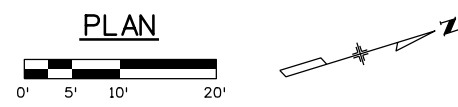
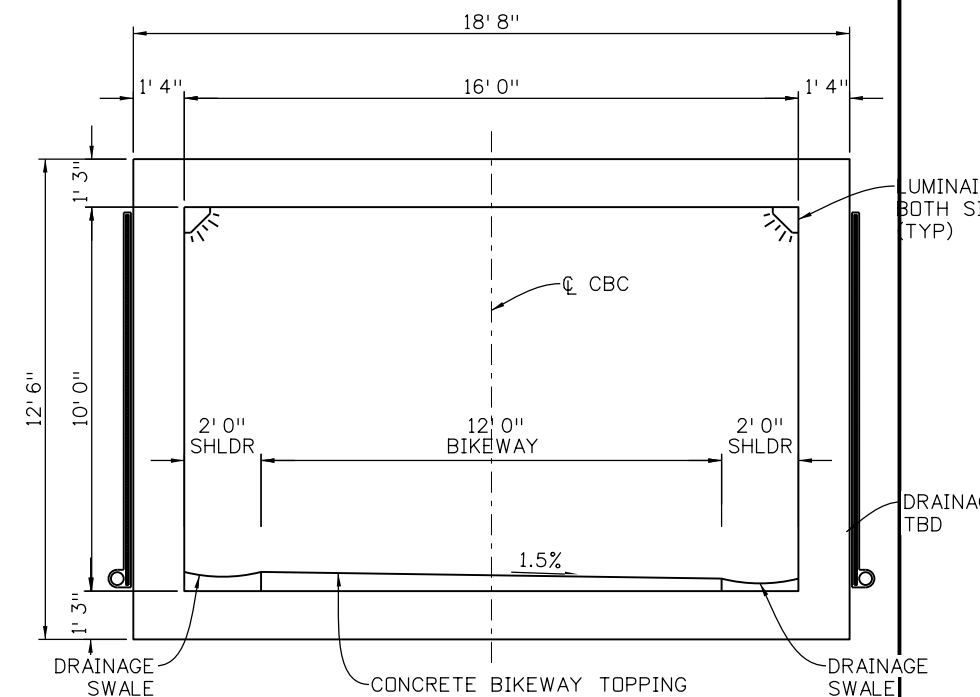
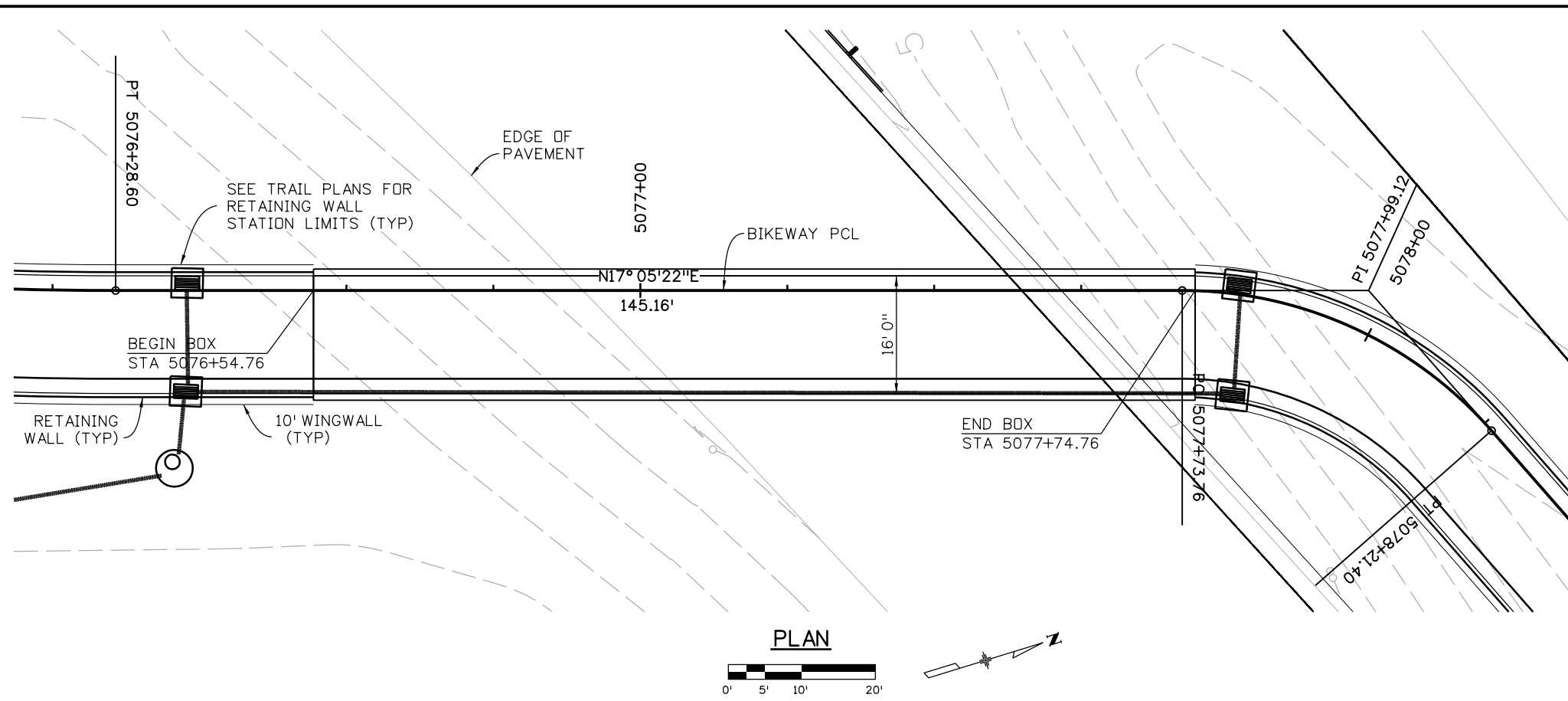
LONGITUDINAL SECTION

NOTES:

1. SEE M-601-1 FOR CULVERT EXTENSION DIMENSIONS AND REINFORCEMENT DETAILS.
2. SEE M-601-20 FOR WINGWALL DIMENSIONS AND REINFORCEMENT DETAILS.
3. SEE M-601-20 FOR WINGWALL DRAINAGE AND LIMITS OF CONCRETE SEALER DETAILS.
4. SAFETY RAIL (CABLE) WILL BE MOUNTED ON TOP OF HEADWALL AND WINGWALLS, BUT IS NOT SHOWN FOR CLARITY.

| | | | | | | | | | |
|---|---|-----------------|----------|-------|----------------------|----------------|-----------------------------------|---------------------------|------------------|
| All seals for this set of drawings are applied to the cover page(s) | Print Date: 6/28/2022 | Sheet Revisions | | | | As Constructed | CD 119 BIKEWAY | | Project No./Code |
| | File Name: 450_21015_BR_CBC Underpass E.dgn | Date: | Comments | Init. | | No Revisions: | UNDERPASS E NIWOT ROAD | | |
| | Unit Information | | | | | Revised: | Designer: JBG | Structure Numbers | |
| | | | | | | Void: | Detailer: SH | Subset Sheets: S10 of S15 | |
| | Horiz. Scale: Vert. Scale: As Noted | | | | Sheet Subset: STRUCT | | Sheet Number 152 | | |

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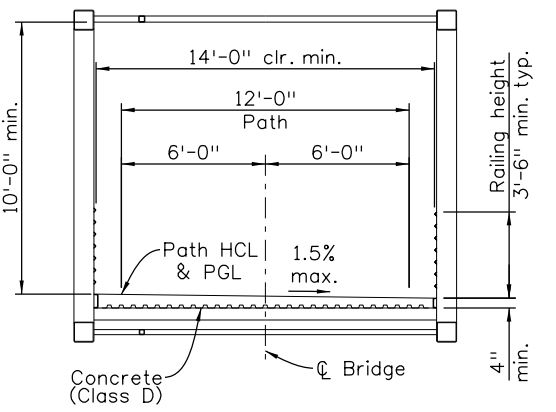
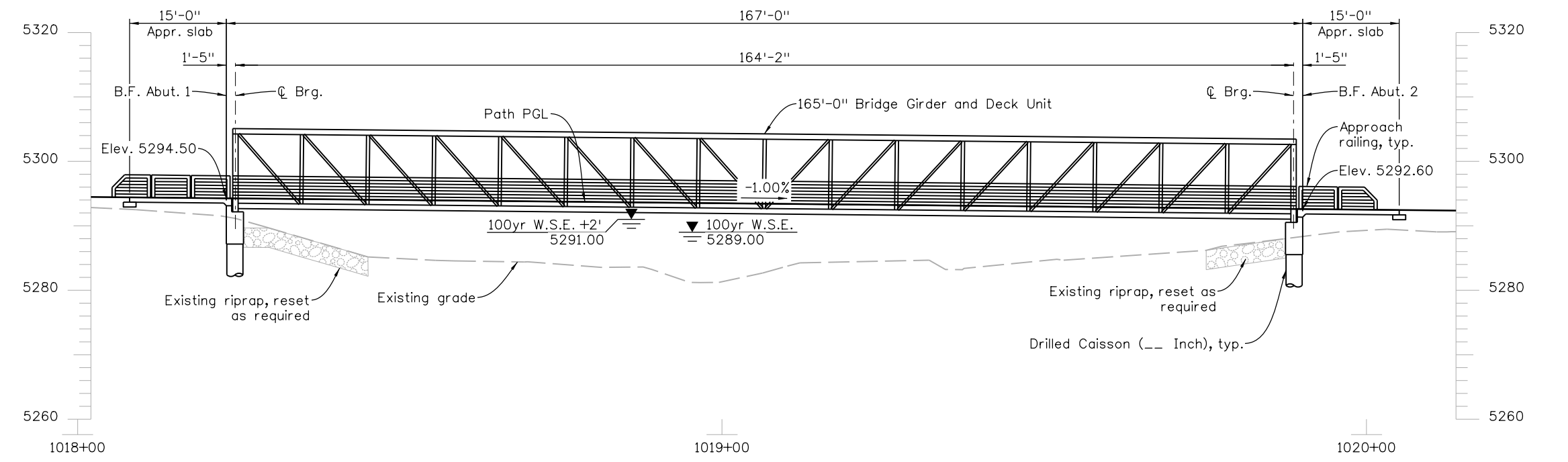
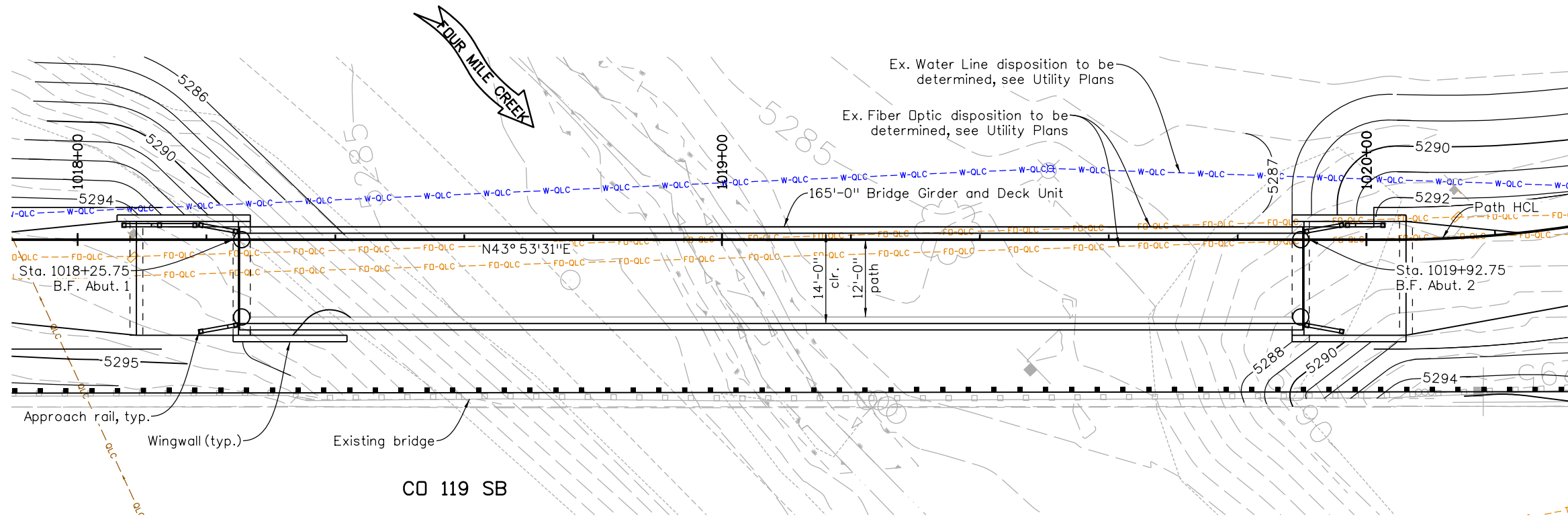
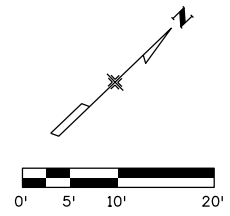


NOTES:

1. SEE M-601-1 FOR CULVERT EXTENSION DIMENSIONS AND REINFORCEMENT DETAILS.
2. SEE M-601-20 FOR WINGWALL DIMENSIONS AND REINFORCEMENT DETAILS.
3. SEE M-601-20 FOR WINGWALL DRAINAGE AND LIMITS OF CONCRETE SEALER DETAILS.
4. SAFETY RAIL (CABLE) WILL BE MOUNTED ON TOP OF HEADWALL AND WINGWALLS, BUT IS NOT SHOWN FOR CLARITY.

LONGITUDINAL SECTION

| | | | | | | | | | |
|---|---|-----------------|----------|-------|--|----------------|---------------------------------------|----------------------|--------------------------|
| All seals for this set of drawings are applied to the cover page(s) | Print Date: 6/28/2022 | Sheet Revisions | | | | As Constructed | CD 119 BIKEWAY | | Project No./Code |
| | File Name: 450_21015_BR_CBC Underpass F.dgn | Date: | Comments | Init. | | No Revisions: | UNDERPASS F CONNECTOR ROAD | | |
| | Horiz. Scale: Vert. Scale: As Noted | | | | | Revised: | Designer: JBG | Structure Numbers | |
| | Unit Information | | | | | Void: | Detailer: SH | Sheet Subset: STRUCT | Subset Sheets: S11 of 15 |
| | | | | | | | | | |



Michael Carlson 3:19:53 PM pw:\mullereng-pw.bentley.com\mullereng-pw-01\Documents\2021\Projects\21-015.01 CO 119 Bikeway\01 Pre-Construction\Sheets\620_21015_SB_BR 4MILE Gen Lay.dgn

All seals for this set of drawings are applied to the cover page(s)

Print Date: 6/28/2022
 File Name: 620_21015_SB_BR 4MILE Gen Lay.dgn
 Horiz. Scale: 1"=20' Vert. Scale: As Noted
 Unit Information



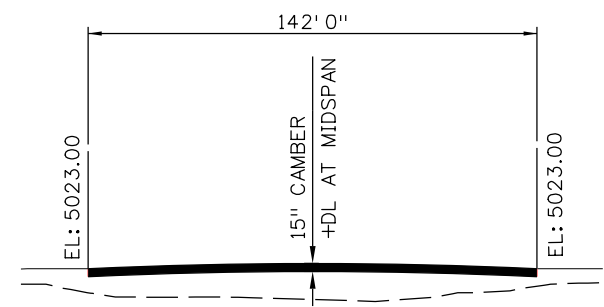
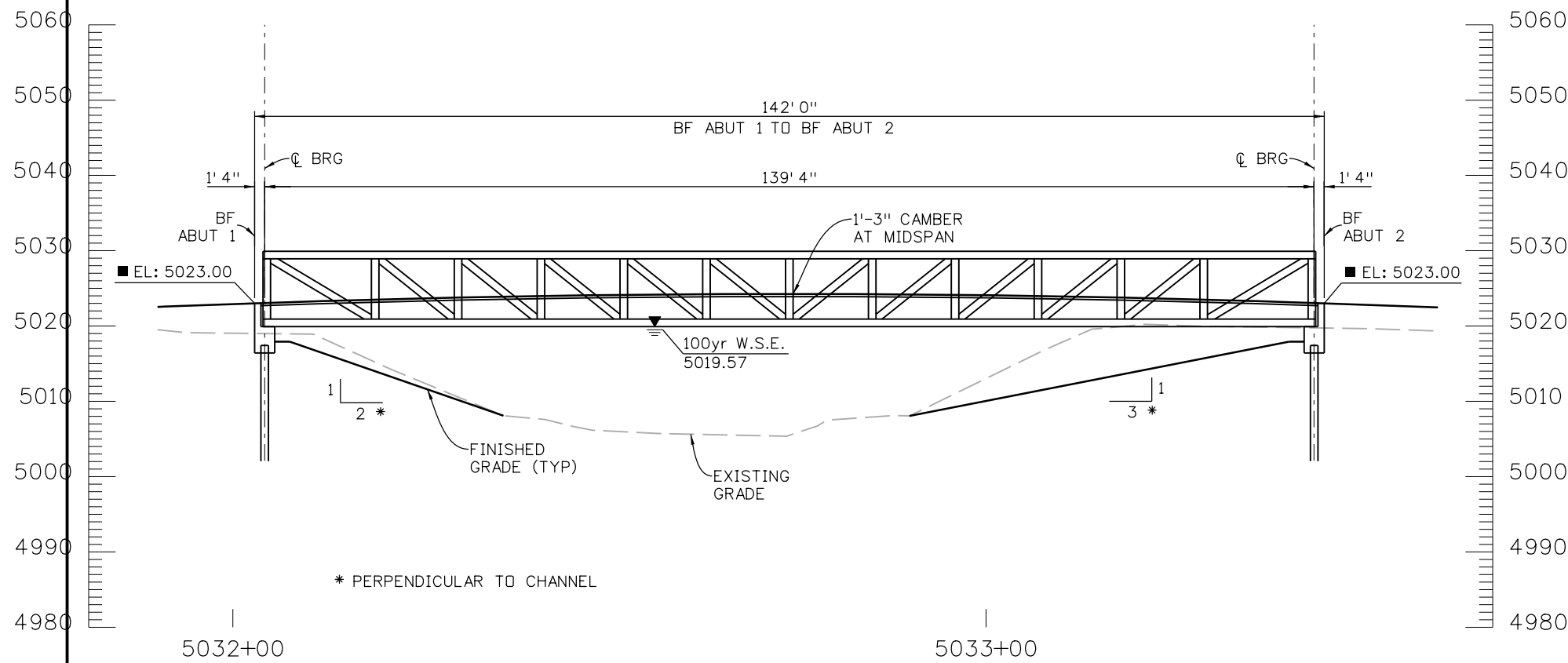
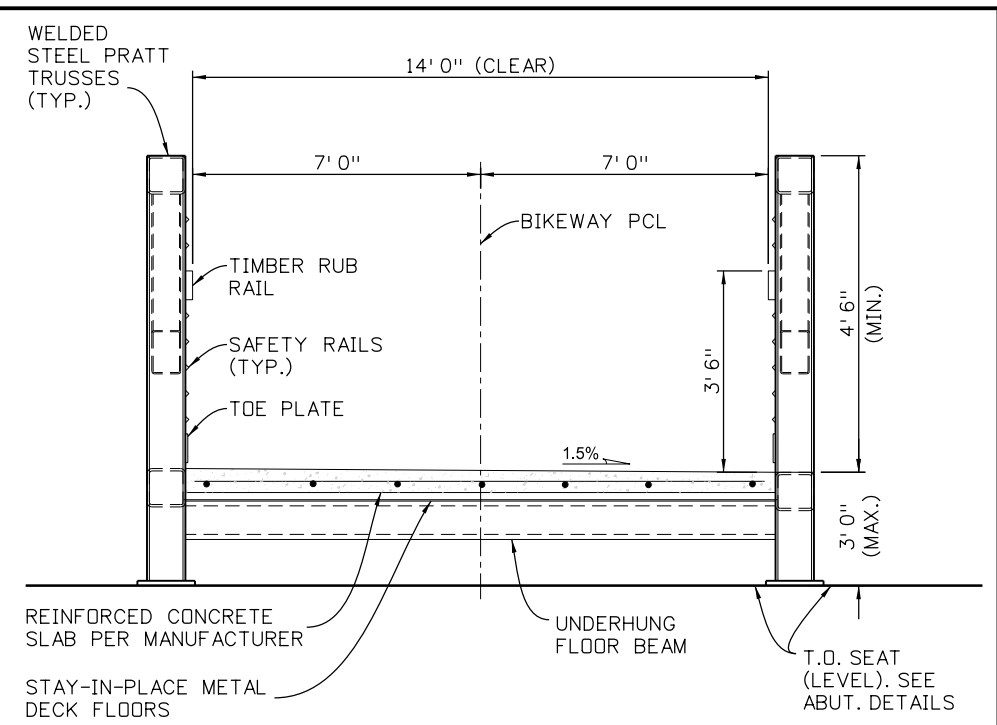
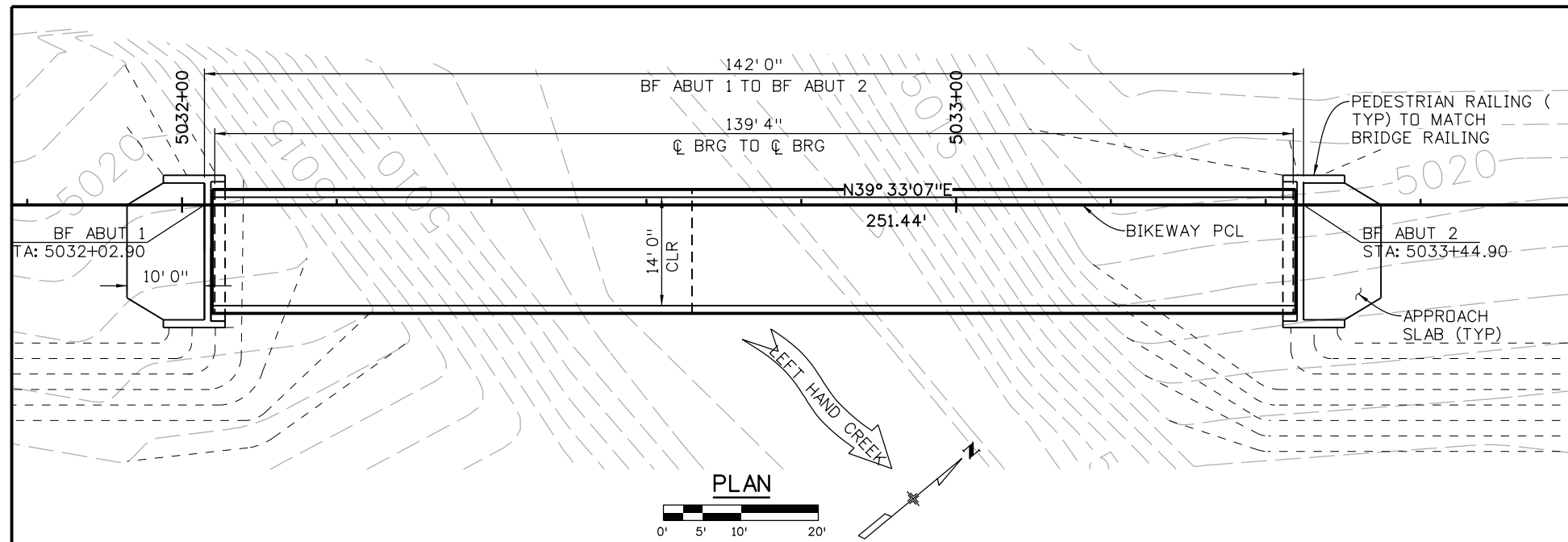
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| Date: | Comments | Init. |
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As Constructed
 No Revisions:
 Revised:
 Void:

CD 119 BIKEWAY
**PEDESTRIAN BRIDGE
 FOUR MILE CREEK**
 Designer: D. Graff
 Detailer: S. Florian
 Sheet Subset: STRUCTURAL
 Structure Numbers:
 Subset Sheets: S12 of 15

Project No./Code
 Sheet Number **154**



shorton 3:18:33 PM p:\mullereng-pw-01\Documents\2021 Projects\21-015.01 CO 119 Bikeway\01 Pre-Construction\Sheets\460_21015_BR_Ped Bridge

All seals for this set of drawings are applied to the cover page(s)

Print Date: 6/28/2022
 File Name: 460_21015_BR_Ped Bridge.dgn
 Horiz. Scale: Vert. Scale: As Noted
 Unit Information
MULLER
 ENGINEERING COMPANY

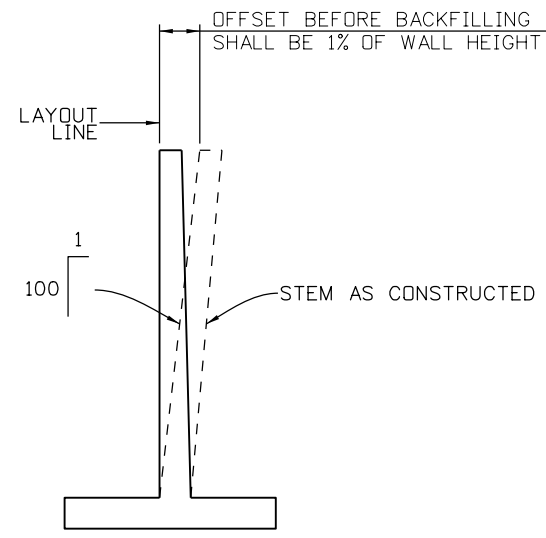
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| Date: | Comments | Init. |
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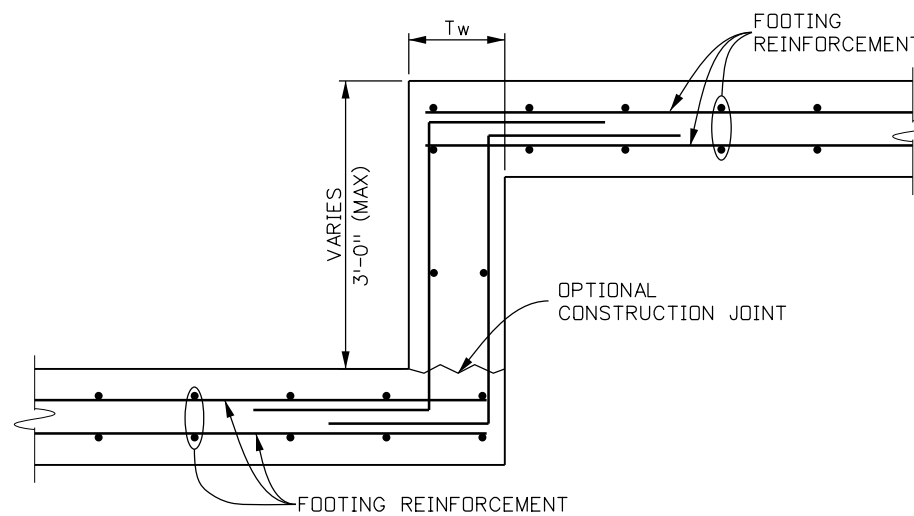
As Constructed
 No Revisions:
 Revised:
 Void:

CO 119 BIKEWAY
PEDESTRIAN BRIDGE LEFT HAND CREEK
 Designer: JBG
 Detailer: SH
 Sheet Subset: STRUCT
 Structure Numbers:
 Subset Sheets: S13 of 15

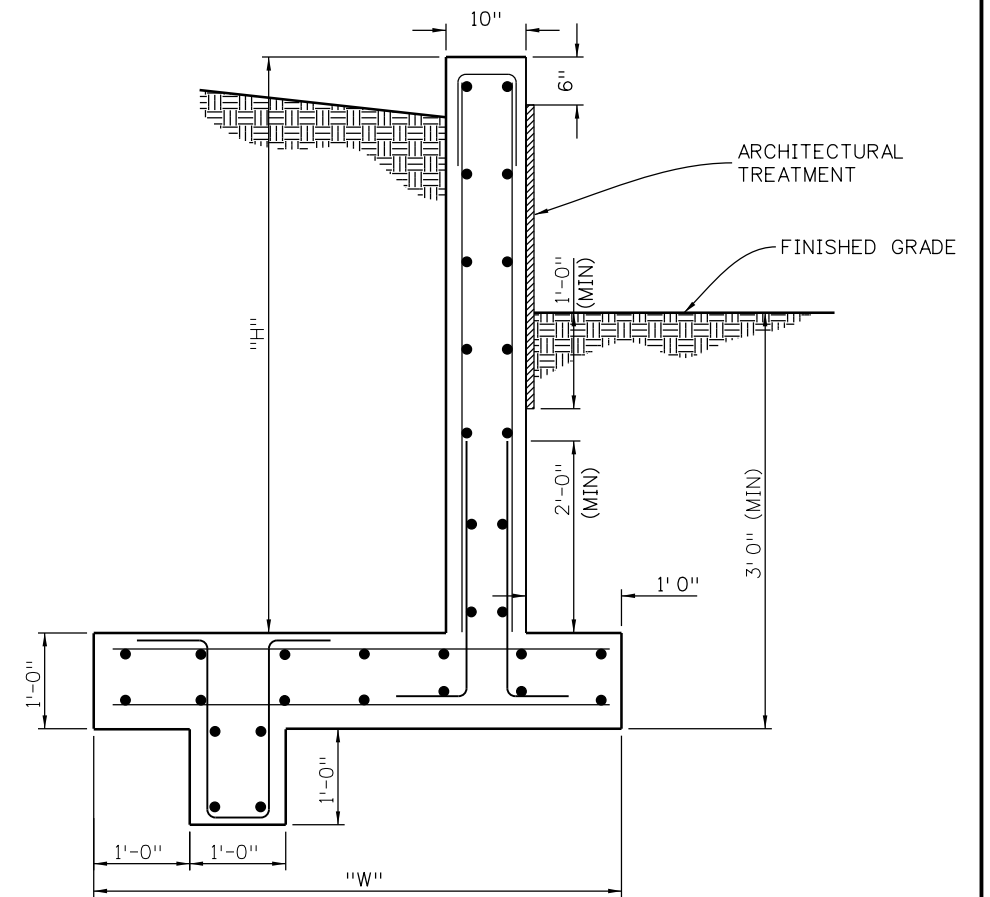
Project No./Code
 Sheet Number **155**



WALL OFFSETS

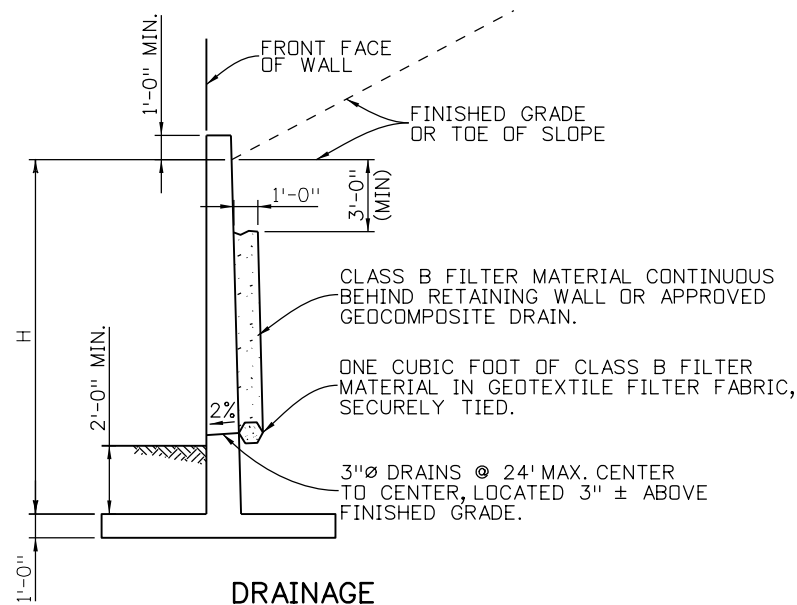


STEP FOOTING DETAIL

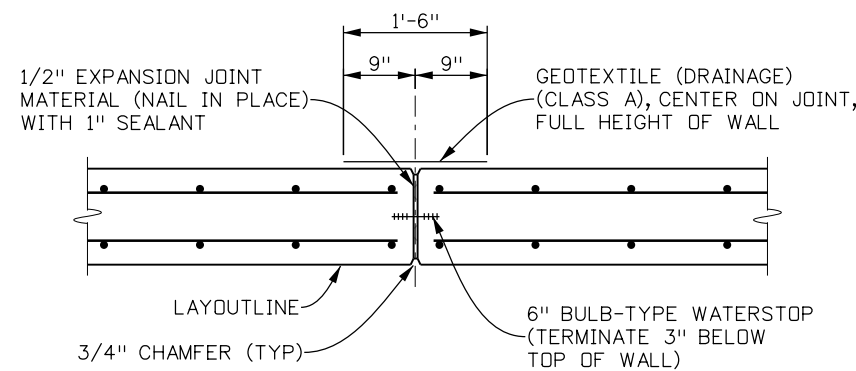


TYPICAL WALL - SECTION

| RETAINING WALL DIMENSIONS | | | |
|---------------------------|--------|-------|-------|
| H | 11'-0" | 8'-0" | 5'-0" |
| W | 8'-0" | 6'-0" | 4'-3" |



DRAINAGE
NOT REQUIRED WHEN H IS ≤ 6'



EXPANSION JOINT DETAIL

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All seals for this set of drawings are applied to the cover page(s)

Print Date: 6/28/2022
 File Name: 470_21015_CPB_SB_SHEET_Retain Wall Detail.dgn
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 Unit Information

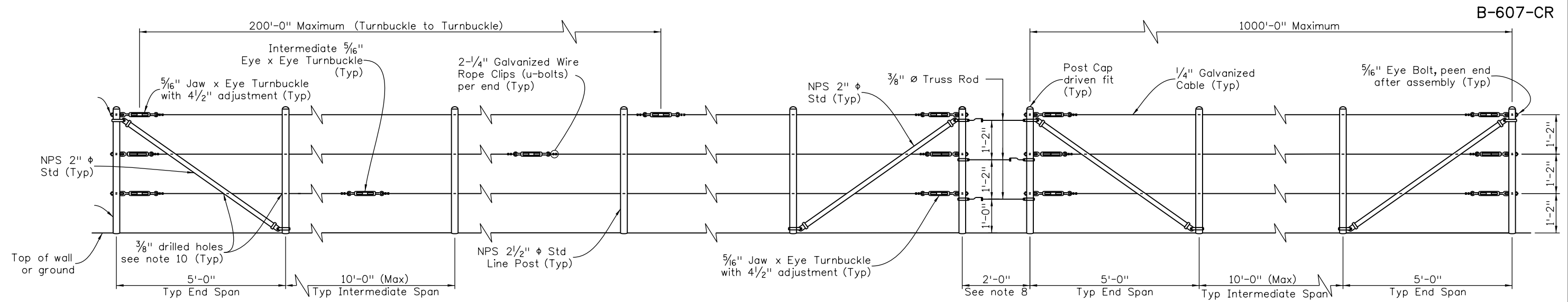
| Sheet Revisions | | |
|-----------------|----------|-------|
| Date: | Comments | Init. |
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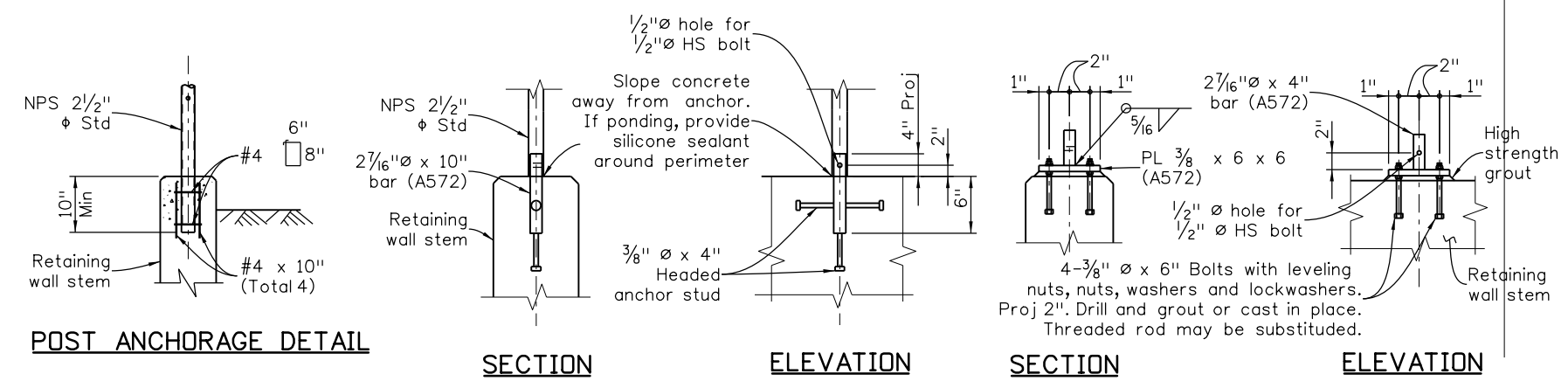
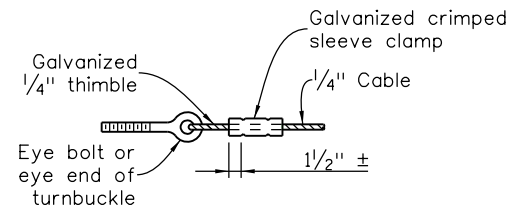
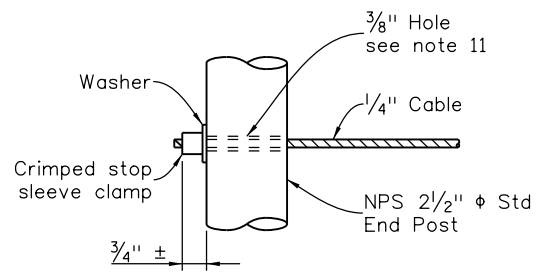
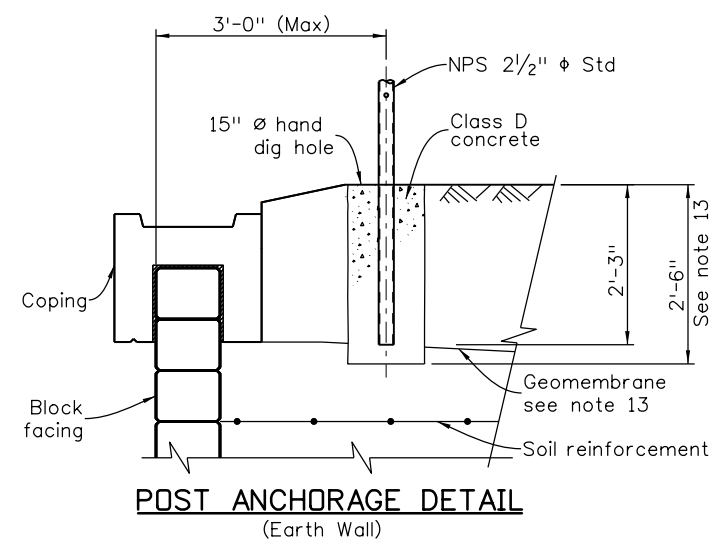
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| As Constructed | CD 119 BIKEWAY | |
| No Revisions: | RETAINING WALL DETAILS | |
| Revised: | Designer: BCB | Structure Numbers |
| Void: | Detailer: SH | Subset Sheets: S14 of 15 |
| | Sheet Subset: STRUCT | |

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| Project No./Code | |
| Sheet Number 156 | |

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NOTES:



DESIGN DATA:

AASHTO, Eighth Edition LRFD with current interims, and OSHA Safety and Health Standards

Design Method: Load and Resistance Factor Design

Live Load Force: $P_{LL} = 0.2$ kips, OSHA 1910.29(b)(3)

Concrete: Class D Concrete: $f'_c = 4,500$ psi

Pipe: ASTM A53 Grade B $f_y = 35,000$ psi

Wire (7 wire strand): ASTM A475, Utilities Grade or better

All seals for this set of drawings are applied to the cover page(s)

Print Date: 6/28/2022

File Name: 480_21015_CPB_SB_SHEET_Safety Rolling dtls.dgn

Horiz. Scale: Vert. Scale: As Noted

Unit Information

| Sheet Revisions | | |
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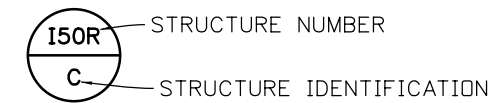


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|----------------|---------------|-----------------------------|--------------------------|------------------|--|
| As Constructed | | CD 119 BIKEWAY | | Project No./Code | |
| No Revisions: | | SAFETY RAIL (CABLE) DETAILS | | | |
| Revised: | Designer: BCB | Structure Numbers | | | |
| Void: | Detailer: SH | Sheet Subset: STRUCT | Subset Sheets: S15 of 15 | Sheet Number 157 | |

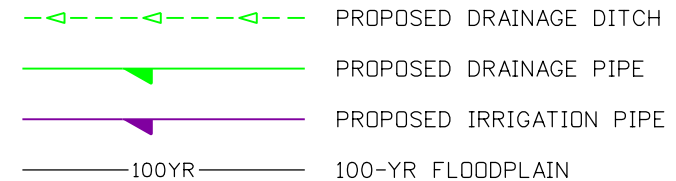
DRAINAGE GENERAL NOTES

1. THE MANUFACTURER'S JOINT TOLERANCE FOR ALL PIPE TYPES USED SHALL BE SUPPLIED TO THE ENGINEER. FOR DEFLECTIONS GREATER THAN THE MANUFACTURER'S TOLERANCE, A CONCRETE PIPE COLLAR SHALL BE USED PER THE DRAINAGE DETAIL SHEETS. CONCRETE PIPE COLLARS SHALL BE USED FOR EXISTING PIPE TO PROPOSED PIPE CONNECTIONS. THE COST OF THE CONCRETE PIPE COLLAR SHALL BE INCLUDED IN THE COST OF THE WORK.
2. THE "PIPE CONNECTION" DETAIL SHALL APPLY TO ALL PIPE CONNECTIONS TO PROPOSED PRECAST CONCRETE STRUCTURES AND EXISTING STRUCTURES. THE COST OF THE PIPE CONNECTION SHALL BE INCLUDED IN THE COST OF THE WORK.
3. RUBBER GASKETS SHALL BE USED FOR ALL RCP JOINTS IN ACCORDANCE WITH ASTM C443. THE COST OF ALL JOINT GASKETS SHALL BE INCLUDED IN THE COST OF THE WORK.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING PIPE SIZES, LENGTHS AND LOCATIONS PRIOR TO ORDERING AND DELIVERY OF THE PIPE MATERIAL TO THE SITE.
5. ALL PIPES SHALL BE REINFORCED CONCRETE PIPE (RCP) UNLESS OTHERWISE SPECIFIED. ALL RCP SHALL BE A MINIMUM OF CLASS III (STRENGTH) UNLESS A HIGHER CLASS IS REQUIRED BY CDOT M&S STANDARD M-603-2.
6. ALL END SECTIONS MUST BE INSTALLED WITH JOINT FASTENERS. IN ADDITION, JOINT FASTENERS SHALL BE INSTALLED ON ALL PIPE JOINTS WITHIN 15-FEET OF THE DOWNSTREAM END OF ALL CULVERTS. (INCLUDING END SECTION LENGTH, IF APPLICABLE).
7. STRUCTURE BACKFILL (FLOW-FILL) PER CDOT STANDARD 206.02 SHALL BE USED IN PLACE OF STRUCTURE BACKFILL (CLASS 1) FOR STORM DRAINS THAT ARE LOCATED UNDER ROADWAYS AND HAVE 2 FEET OR LESS OF COVER FROM TOP OF FINISHED SUBGRADE TO TOP OF PIPE. FLOW-FILL WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE PIPE.
8. OTHER UTILITIES MAY BE CROSSED OR OTHERWISE IMPACT STORM DRAIN CONSTRUCTION. CONTRACTOR SHALL PROTECT EXISTING UTILITIES IN PLACE. UNLESS NOTED OTHERWISE, PROTECTION OF EXISTING UTILITIES, INCLUDING INCIDENTAL SHORING THAT IS NOT INCLUDED AS A PAY ITEM, WILL NOT BE MEASURED SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF THE WORK.
9. RIPRAP IS SHOWN ON THE PLAN SHEETS, AND DRAINAGE DETAILS. FILTER MATERIAL (CLASS A) IS REQUIRED BENEATH RIPRAP IN LIEU OF GEOTEXTILE UNLESS OTHERWISE SPECIFIED.
10. THE TOP PORTION OF INLETS AND MANHOLES SHALL FIT THE LONGITUDINAL PROFILE SLOPE AND TYPICAL SECTION REQUIREMENTS. THE CONTRACTOR SHALL CROSS REFERENCE THIS INFORMATION PRIOR TO CONSTRUCTING INLETS AND MANHOLES TO FINAL GRADE.
11. STATION/OFFSET INFORMATION FOR TYPE C INLETS, TYPE D INLETS, AND TYPE 13 INLETS IS TO THE CENTER OF THE STRUCTURE.
12. STATION/OFFSET INFORMATION FOR MANHOLES (SLAB BASE AND BOX BASE) IS TO THE CENTER OF THE STRUCTURE.
13. FOR MANHOLES, RING AND COVER SHALL ALLOW FOR MANHOLES STEPS TO EXTEND TO THE BOTTOM OF THE STRUCTURE.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEWATERING AND DIVERSION INCLUDING, BUT NOT LIMITED TO, LIVE STREAM FLOW AND GROUNDWATER AND OBTAINING THE APPLICABLE DEWATERING PERMITS FOR CONSTRUCTION AT THE SITE. THIS WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE WORK. THE CONTRACTOR SHALL COMPLY WITH ALL PERMIT REQUIREMENTS.

DRAINAGE LEGEND:



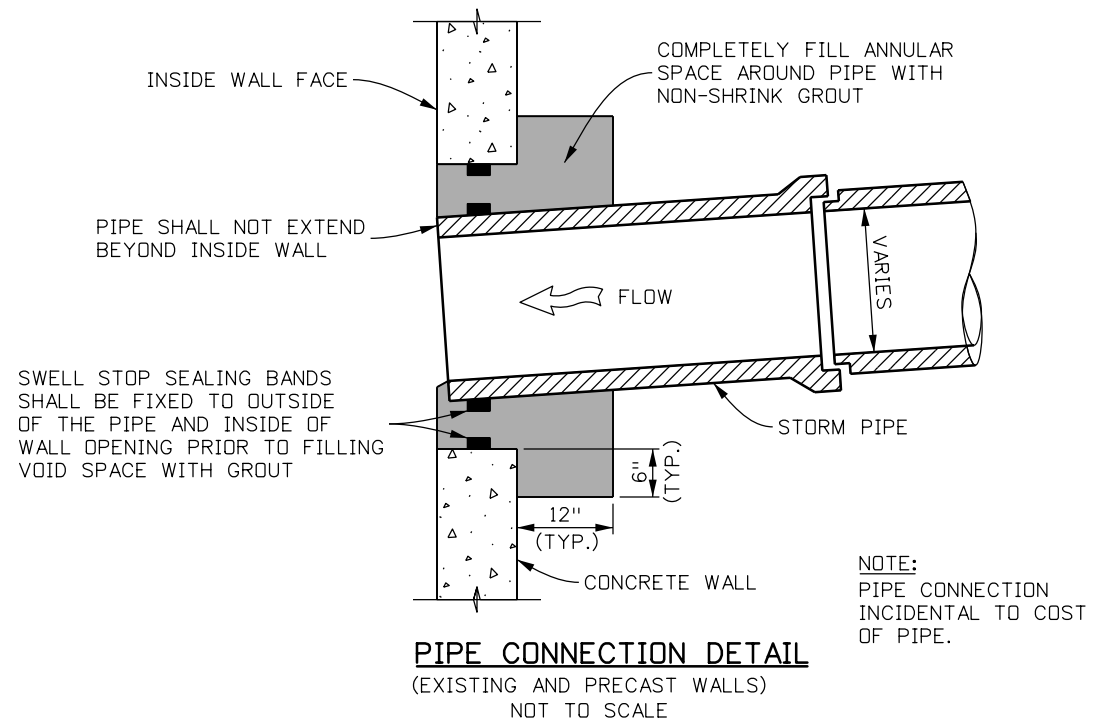
| STRUCTURE IDENTIFICATION | STRUCTURE TYPE |
|--------------------------|------------------------------------|
| C | CDOT TYPE C INLET (CLOSE MESH) |
| D | CDOT TYPE D INLET |
| EX | EXISTING STRUCTURE (TYPE AS NOTED) |
| FES | FLARED END SECTION |
| HW | HEADWALL |
| IRR | IRRIGATION |
| MHX | MANHOLE SLAB BASE (X DIAMETER) |
| PC | PIPE CONNECTION |
| PS | PUMP STATION |
| 13 | TYPE 13 INLET |



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| All seals for this set of drawings are applied to the cover page(s) | Print Date: 6/28/2022 | Sheet Revisions | | | | As Constructed | | CD 119 BIKEWAY DRAINAGE NOTES | | Project No./Code |
| | File Name: 500_21015_HY_Gen Notes.dgn | Date: | Comments | Init. | | No Revisions: | | | | |
| | Horiz. Scale: 1"=100' Vert. Scale: As Noted | | | | | Revised: | Designer: ACF | Structure Numbers | | |
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| | | | | | Sheet Subset: DRN | | | | | |

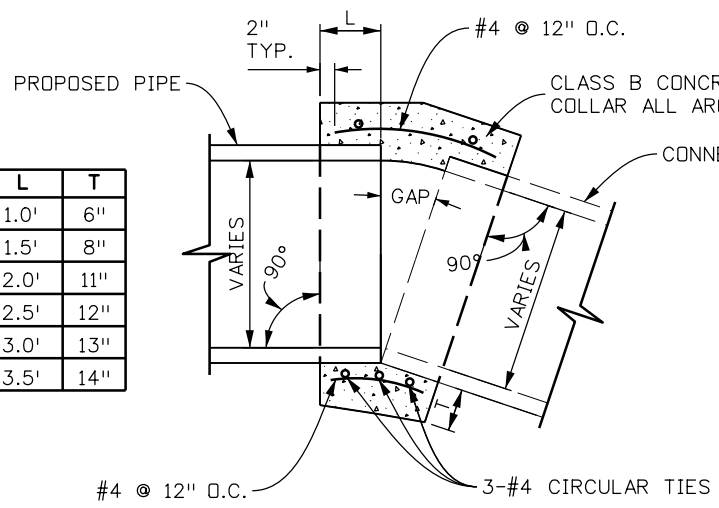
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PIPE CONNECTION DETAIL
(EXISTING AND PRECAST WALLS)
NOT TO SCALE

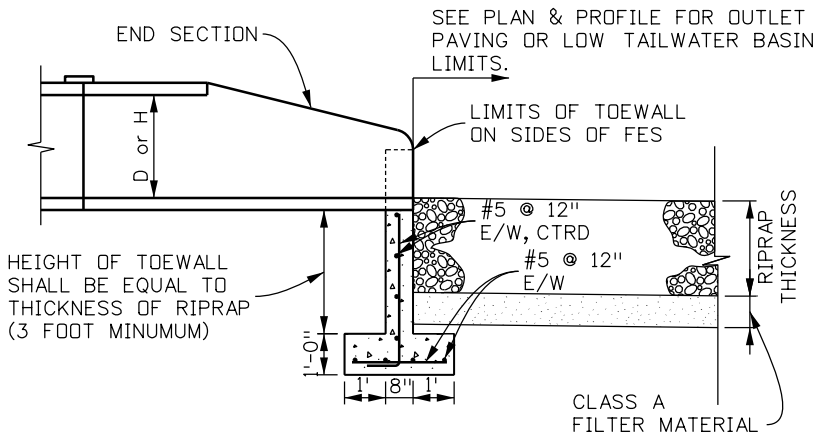
NOTE:
PIPE CONNECTION
INCIDENTAL TO COST
OF PIPE.

| PIPE SIZE | L | T |
|-----------|------|-----|
| 12"-24" | 1.0' | 6" |
| 30"-42" | 1.5' | 8" |
| 48"-60" | 2.0' | 11" |
| 66"-78" | 2.5' | 12" |
| 84"-96" | 3.0' | 13" |
| 102"-114" | 3.5' | 14" |

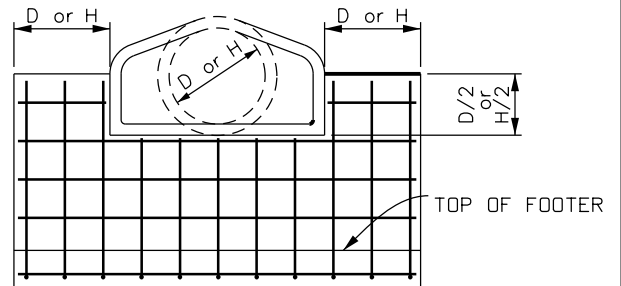


CONCRETE PIPE COLLAR
NOT TO SCALE

- NOTES:
1. CONCRETE COLLAR WORK SHALL BE INCLUDED IN THE COST OF PIPE.
 2. FOR STRAIGHT CSP EXTENSIONS, CONTRACTOR MAY SUBSTITUTE APPROVED CSP BAND FOR CONCRETE COLLAR



TOEWALL DETAIL
NOT TO SCALE



- NOTES:
1. TOEWALL SHALL BE USED FOR ALL FLARED END SECTIONS 36" OR LARGER.
 2. BACKFILL BOTH SIDES OF WALL EVENLY (WITHIN 1'-0" OF EACH OTHER).
 3. JOINT FASTENERS SHALL BE INSTALLED ON ALL FLARED END SECTIONS.
 4. TOEWALL AND ALL ASSOCIATED WORK SHALL BE PAID FOR AS CONCRETE CLASS D (WALL) AND REINFORCING STEEL (EPOXY COATED).
 5. STRUCTURE EXCAVATION AND BACKFILL WILL BE PAID FOR SEPARATELY.

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 File Name: 510_21015_HY_Details1.dgn
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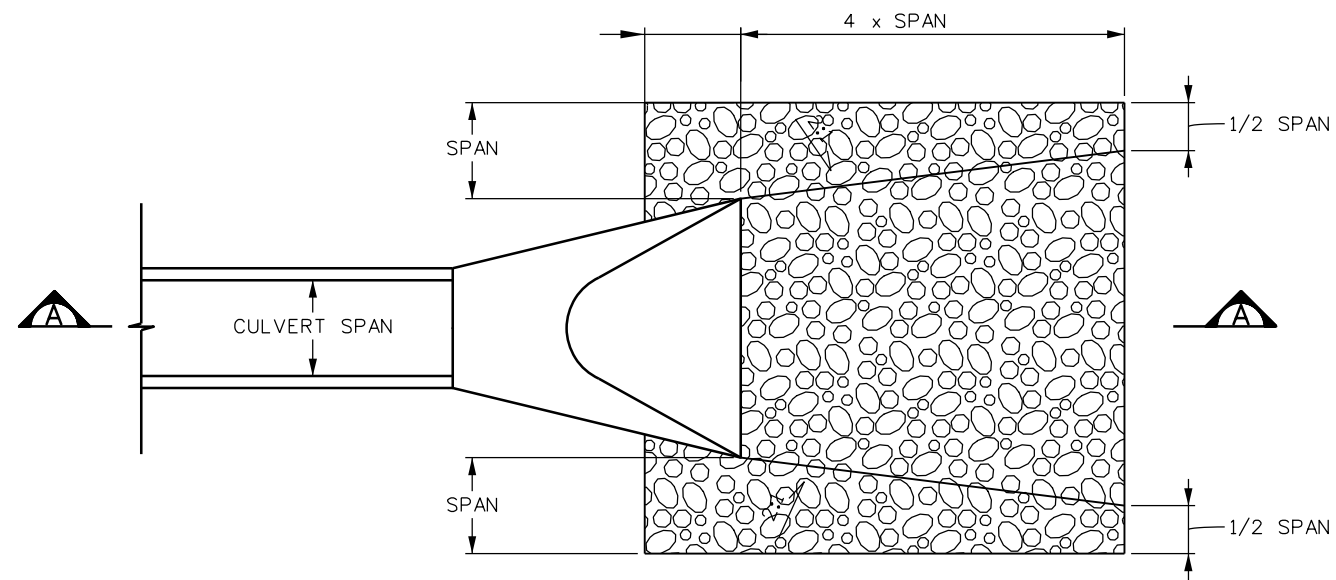
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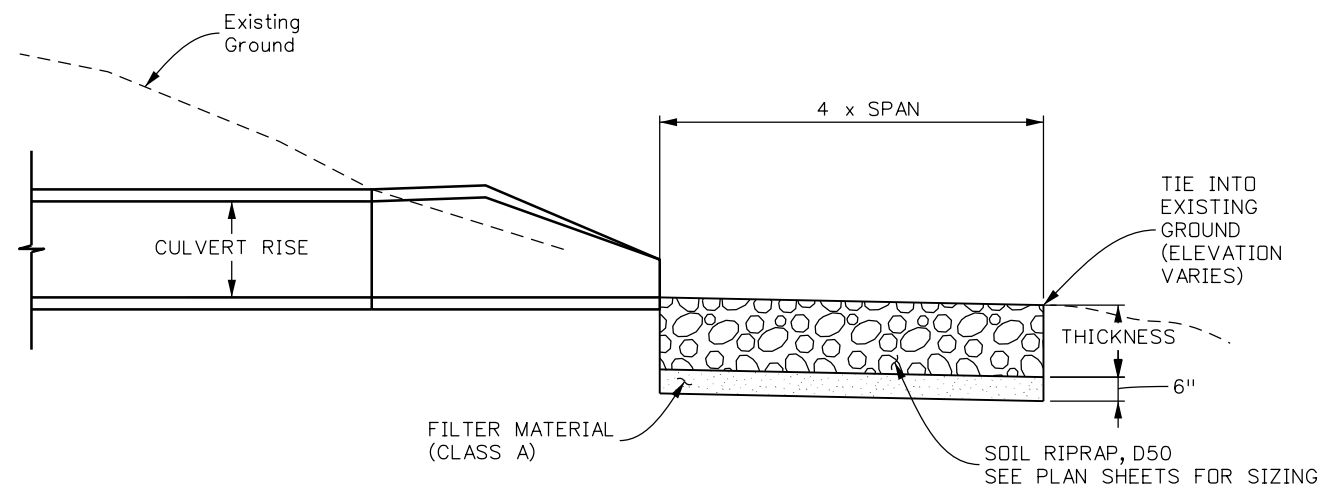
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| CD 119 BIKEWAY | | | |
| DRAINAGE DETAILS | | | |
| Designer: | ACF | Structure Numbers | |
| Detailer: | PDP | | |
| Sheet Subset: | DRN | Subset Sheets: | 1 of 2 |

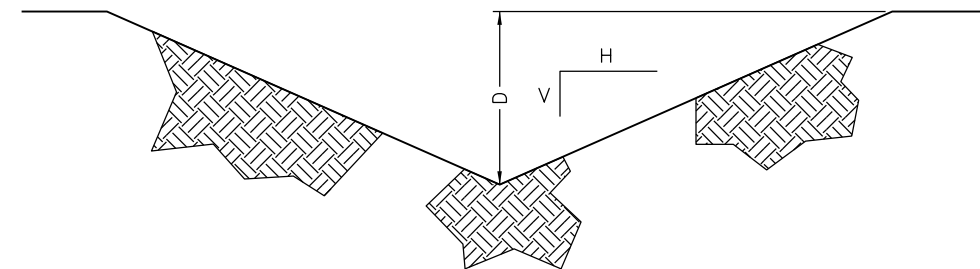
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| Project No./Code | |
| Sheet Number | 159 |



SOIL RIPRAP OUTLET PAVING
SCALE: 1"=4'-0"



SECTION A-A
SCALE: 1"=4'-0"



GRASS-LINED DITCH DETAIL
N.T.S.

| Stationing | Side | Foreslope (H:V) | Backslope (H:V) | Depth (inches) |
|--------------------|------|-----------------|-----------------|----------------|
| 1002+20 TO 1003+60 | LT | 4:1 | 3:1 | 6" |
| 1006+50 TO 1008+60 | LT | 4:1 | 3:1 | 6" |
| 1010+00 TO 1013+20 | RT | 4:1 | 3:1 | 12" |
| 1013+20 TO 1014+80 | RT | 4:1 | 3:1 | 6" |
| 1020+80 TO 1024+00 | LT | 3:1 | 4:1 | 6" |
| 1024+00 TO 1028+00 | LT | 3:1 | 4:1 | 6" |
| 1028+00 TO 1029+19 | LT | 4:1 | 6:1 | 12" |
| 1028+00 TO 1029+20 | RT | 4:1 | 3:1 | 12" |
| 1043+80 TO 1045+60 | RT | 3:1 | 4:1 | 6" |
| 1063+20 TO 1066+00 | RT | 3:1 | 4:1 | 6" |
| 1067+40 TO 1069+00 | LT | 4:1 | 3:1 | 6" |
| 1069+20 TO 1076+00 | LT | 4:1 | 3:1 | 6" |
| 1084+00 TO 1089+00 | RT | 4:1 | 6:1 | 12" |
| 1089+00 TO 1095+00 | RT | 4:1 | 4:6 | 12" |
| 2000+00 TO 2000+80 | LT | 3:1 | 6:1 | 12" |
| 2000+00 TO 2001+00 | RT | 3:1 | 6:1 | 12" |
| 2019+00 TO 2019+60 | RT | 3:1 | 6:1 | 12" |
| 2036+00 TO 2036+60 | LT | 3:1 | 4:1 | 6" |
| 2073+00 TO 2074+00 | RT | 3:1 | 6:1 | 12" |
| 2074+00 TO 2075+53 | LT | 3:1 | 6:1 | 12" |
| 3010+40 TO 3010+80 | RT | 3:1 | 6:1 | 12" |
| 3010+80 TO 3011+80 | RT | 3:1 | 4:1 | 12" |
| 3011+80 TO 3014+40 | RT | 3:1 | 3:1 | 12" |
| 3014+40 TO 3017+78 | RT | 3:1 | 4:1 | 12" |

| Stationing | Side | Foreslope (H:V) | Backslope (H:V) | Depth (inches) |
|--------------------|------|-----------------|-----------------|----------------|
| 3033+20 TO 3035+80 | RT | 3:1 | 4:1 | 12" |
| 3035+80 TO 3036+60 | RT | 3:1 | 6:1 | 12" |
| 3040+80 TO 3042+40 | LT | 3:1 | 6:1 | 6" |
| 3042+40 TO 3044+20 | LT | 3:1 | 4:1 | 6" |
| 3044+20 TO 3044+50 | LT | 3:1 | 6:1 | 6" |
| 3047+00 TO 3048+20 | RT | 3:1 | 6:1 | 12" |
| 3047+40 TO 3048+00 | LT | 3:1 | 6:1 | 12" |
| 4042+00 TO 4043+00 | LT | 3:1 | 6:1 | 6" |
| 4061+06 TO 4064+25 | LT | 3:1 | 4:1 | 12" |
| 4114+00 TO 4115+60 | RT | 3:1 | 2:1 | 12" |
| 4116+00 TO 4018+09 | RT | 3:1 | 3:1 | 12" |
| 5000+00 TO 5008+80 | RT | 3:1 | 6:1 | 12" |
| 5014+80 TO 5017+00 | LT | 3:1 | 2:1 | 6" |
| 5017+00 TO 5021+30 | LT | 3:1 | 2:1 | 12" |
| 5021+30 TO 5022+65 | LT | 3:1 | 3:1 | 12" |
| 5030+60 TO 5031+93 | LT | 3:1 | 4:1 | 12" |
| 5034+00 TO 5035+00 | LT | 3:1 | 3:1 | 12" |
| 5070+20 TO 5072+40 | LT | 3:1 | 6:1 | 12" |
| 5080+60 TO 5088+54 | LT | 4:1 | 4:1 | 24" |
| 5083+40 TO 5086+20 | RT | 4:1 | 4:1 | 12" |
| 5087+10 TO 5088+54 | RT | 4:1 | 4:1 | 12" |

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| File Name: 510_21015_HY_Details2.dgn |
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| MULLER ENGINEERING COMPANY |

| Sheet Revisions | | |
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| Date: | Comments | Init. |
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| As Constructed |
| No Revisions: |
| Revised: |
| Void: |

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| CD 119 BIKEWAY | | | |
| DRAINAGE DETAILS | | | |
| Designer: | ACF | Structure Numbers: | |
| Detailer: | PDP | Subset Sheets: | 2 of 2 |
| Sheet Subset: | DRN | | |

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| Project No./Code |
| Sheet Number 160 |

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LUMINAIRE SCHEDULE

| TYPE | SYMBOL | LOCATION | MANUFACTURER | DESCRIPTION / NOTES | FINISH | LIGHT SOURCE | POWER SOURCE | LUMINAIRE INPUT WATTS | VOLTAGE |
|------|--------|-----------------------|--|---|--------|---|--|-------------------------|---------|
| P1 | | Pathway | We-eif VFL520 LED 661-7723 ANSI 7PIN 661-9360 | Pole mounted pedestrian area luminaire Nominal 2" h x 18.5" die-cast aluminum alloy housing Type II distribution Integral 0-10v dimming electronic driver ANSI 7-pin receptacle with shorting cap With 4" d x 14'-0" straight steel pole with bolt cover Suitable for wet location / IP66 | Black | Integral LED Initial Luminaire Lumens: 2648 CCT: 3000K CRI: 80+ | Integral LED Driver Electronic Dimming Type 0-10v | 28 | 120 |
| R1 | | Airport Rd | | Reset bollard | | | | | |
| R2 | | Airport Rd | | Existing bollard to remain | | | | | |
| S1 | | Crosswalks | XCEL Type A | Streetlight Cobra-head streetlight, Type III distribution Mount on 30' tapered steel pole with 4' arm | Black | Integral LED Initial Luminaire Lumens: 3500 CCT: 3000K CRI: 70+ | Integral LED Driver | 70 W HPS Equivalent LED | 120 |
| W1 | | Underpass | Kenall MILLENIUM ROUND MR13FD-PP-MB-50L30K-9500 | Surface mounted LED luminaire Marine grade aluminum nominal 13" D x 6.5" deep round housing with polycarbonate diffuser Integral 0-10V dimming driver Suitable for wet location / IP64 Lifetime vandal warranty, luminaire must be installed per manufacturer's instructions to maintain vandal warranty Supply with Torx® Screwdriver | Black | Integral LED Initial Luminaire Lumens: 5200 CCT: 3000K CRI: 80+ | Integral LED Driver Electronic Dimming Type | 50 | 120 |
| W2 | | Ped Tunnel Approaches | Kenall MILLENIUM FINITE FN9-4-7-MB-16L30K7-DV-9500 | Surface mounted LED luminaire Marine grade aluminum nominal 9" tall x 9" wide x 9" deep housing with polycarbonate diffuser, Type 4 distribution Integral 0-10V dimming driver Suitable for wet location / IP64 Lifetime vandal warranty, luminaire must be installed per manufacturer's instructions to maintain vandal warranty Supply with Torx® Screwdriver | Black | Integral LED Initial Luminaire Lumens: 2078 CCT: 3000K CRI: 80+ | Integral LED Driver Electronic Dimming Type | 20 | 120 |



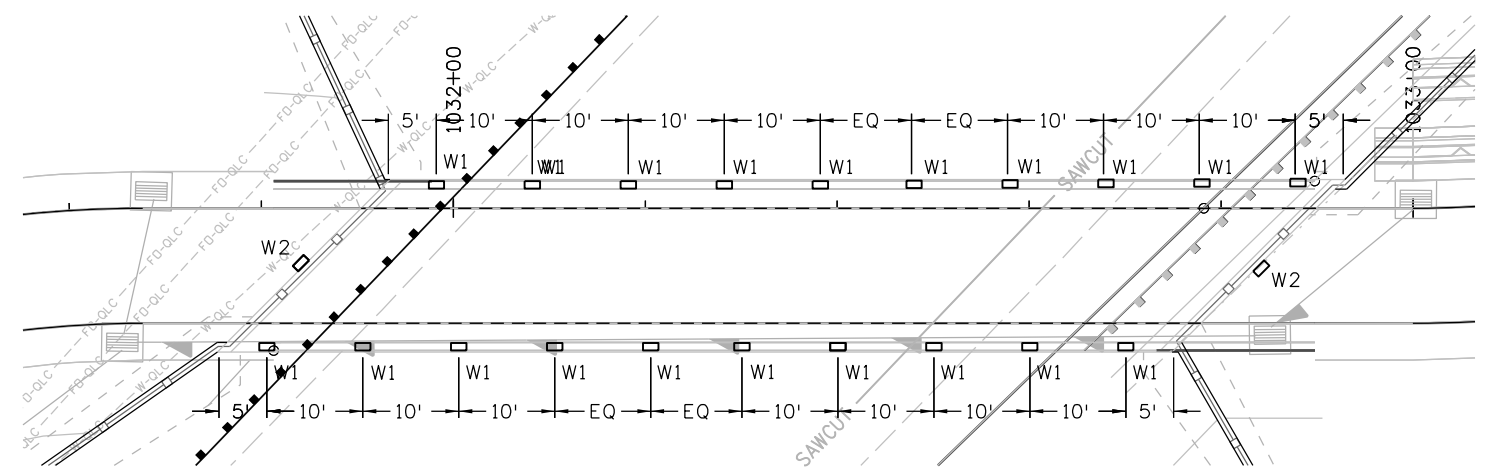
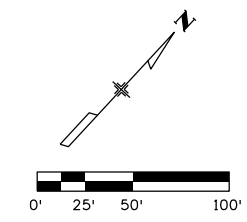
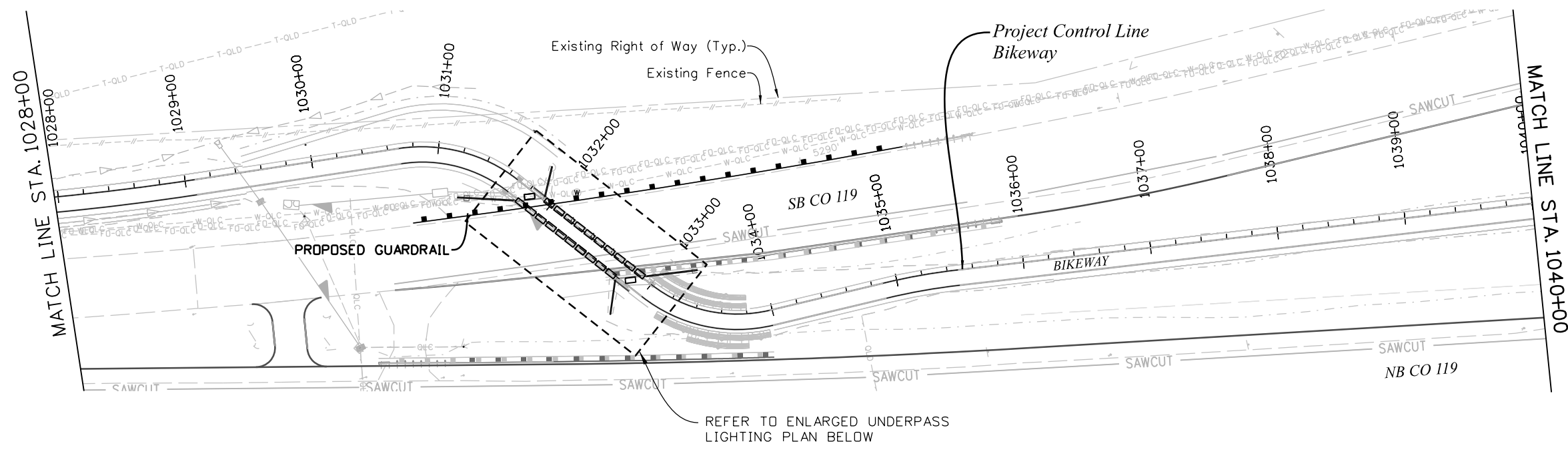
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| Horiz. Scale: 1"=100' Vert. Scale: As Noted |
| Unit Information |
| CLANTON & ASSOCIATES LIGHTING DESIGN AND ENGINEERING 489 W. HILLS COUNTY SOUTH STE. 102 BOULDER, CO 80501 303-534-7200 |

| Sheet Revisions | | |
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| Date: | Comments | Init. |
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| As Constructed | CD 119 BIKEWAY | | Project No./Code |
| No Revisions: | BIKEWAY LIGHTING COVER SHEET | | |
| Revised: | Designer: DR | Structure Numbers | |
| Void: | Detailer: MC | Sheet Subset: LIGHTING | Sheet Number 161 |
| | | Subset Sheets: 1 of 46 | |



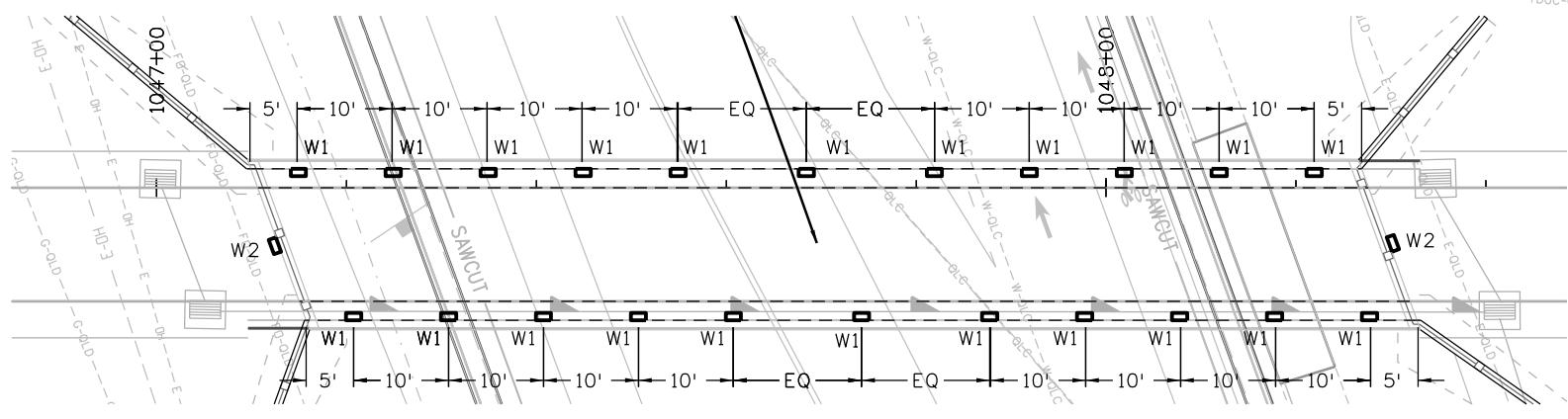
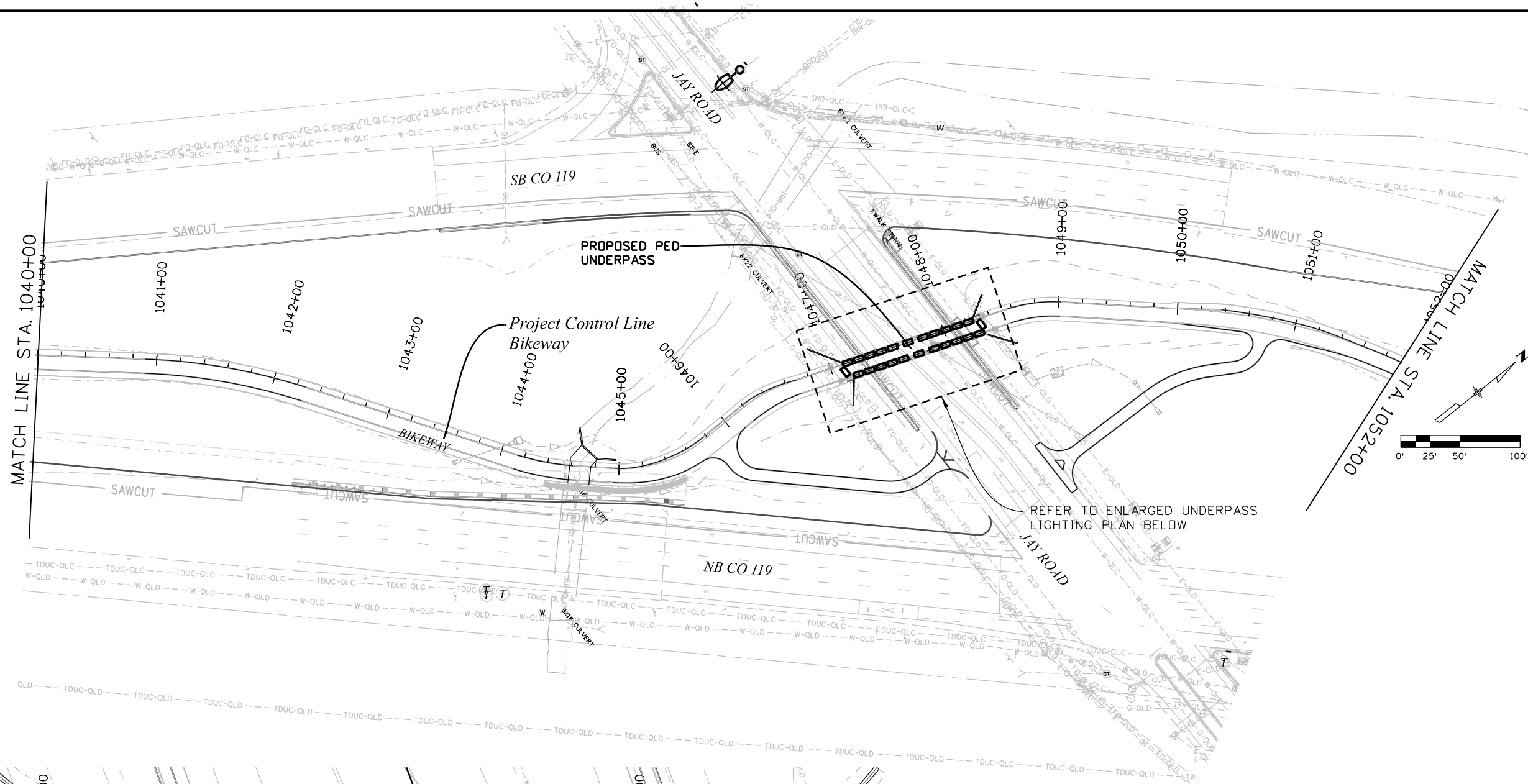
ENLARGED UNDERPASS LIGHTING PLAN



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| | File Name: 300_21015_LT_Bkwy Pln 04.dgn | | | | | No Revisions: | | Designer: DR | Structure Numbers | |
| | Horiz. Scale: 1"=100' Vert. Scale: As Noted | Revised: | | Detailer: MC | | | | | | |
| | Unit Information | Void: | | Sheet Subset: LIGHTING | | Subset Sheets: 4 of 46 | Sheet Number 162 | | | |
| CLANTON & ASSOCIATES LIGHTING DESIGN AND ENGINEERING <small>489 N. WILSON COUNTY SOUTH STE. 102 BOULDER, CO 80501 303-442-7200</small> | | | | | | | | | | |

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ENLARGED UNDERPASS LIGHTING PLAN 0' 5' 10' 20'



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| CLANTON & ASSOCIATES LIGHTING DESIGN AND ENGINEERING 488 NAPLES COUNTY SOUTH STE. 102 BONAVILLE, CO 80801 303-584-7200 |

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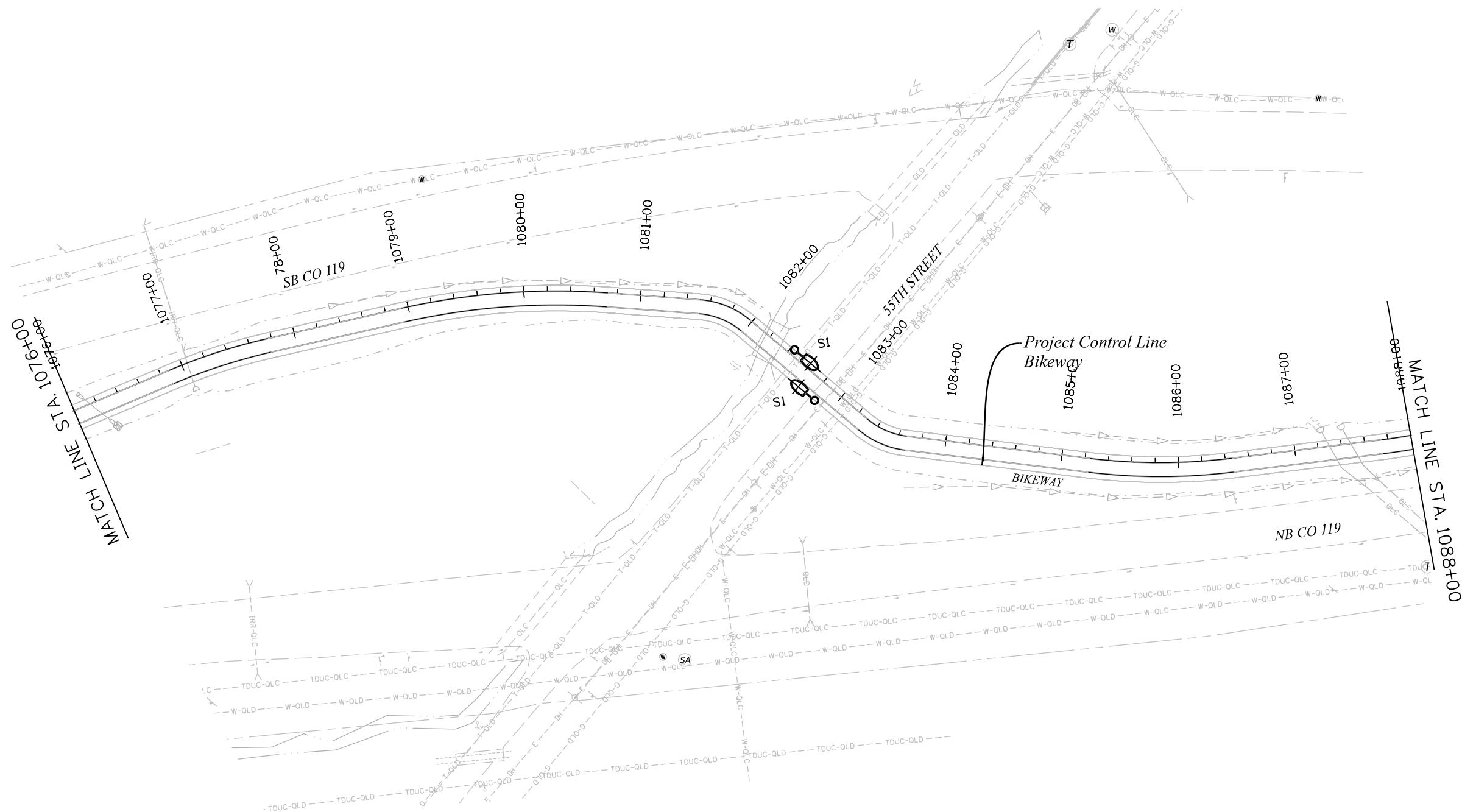


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| CD 119 BIKEWAY | | | |
| BIKEWAY LIGHTING & ELECTRICAL PLANS | | | |
| Designer: | DR | Structure | |
| Detailer: | MC | Numbers | |
| Sheet Subset: | LIGHTING | Subset Sheets: | 5 of 46 |

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| Project No./Code |
| Sheet Number 163 |

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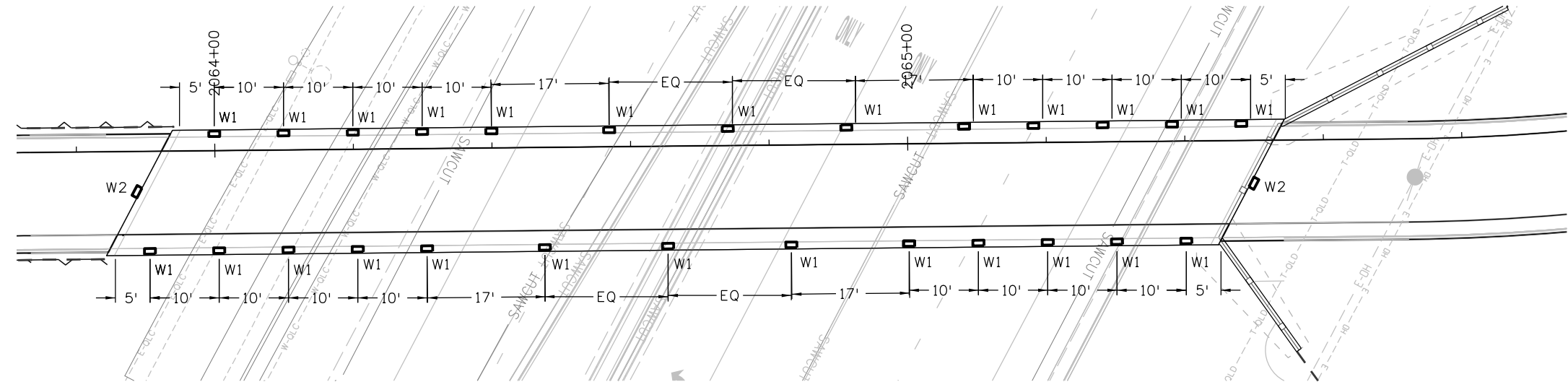
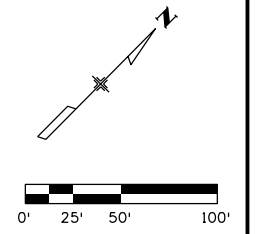
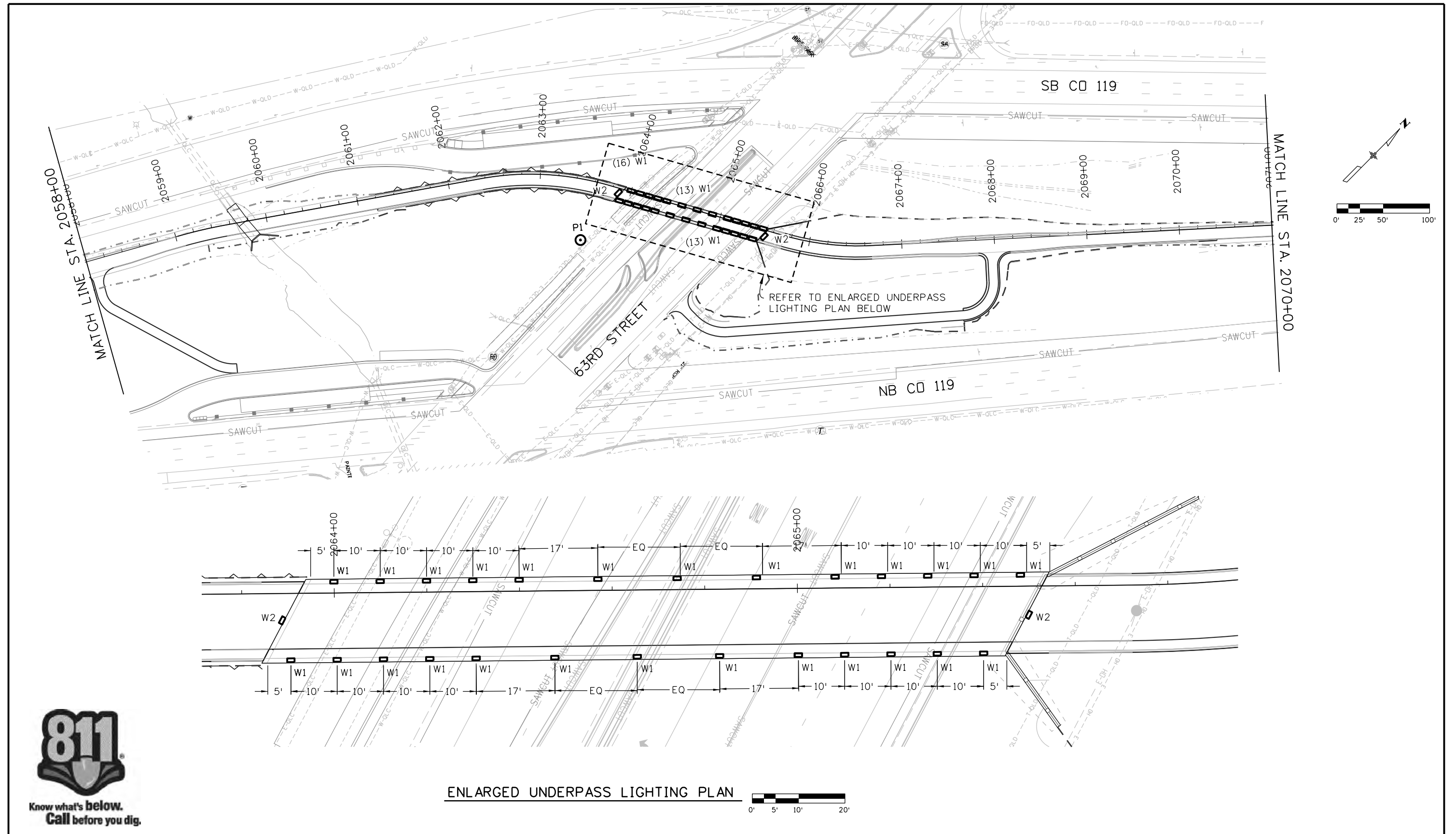
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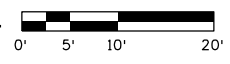
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| Detailer: | MC | Numbers | |
| Sheet Subset: | LIGHTING | Subset Sheets: | 8 of 46 |

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| Project No./Code |
| Sheet Number 164 |

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ENLARGED UNDERPASS LIGHTING PLAN



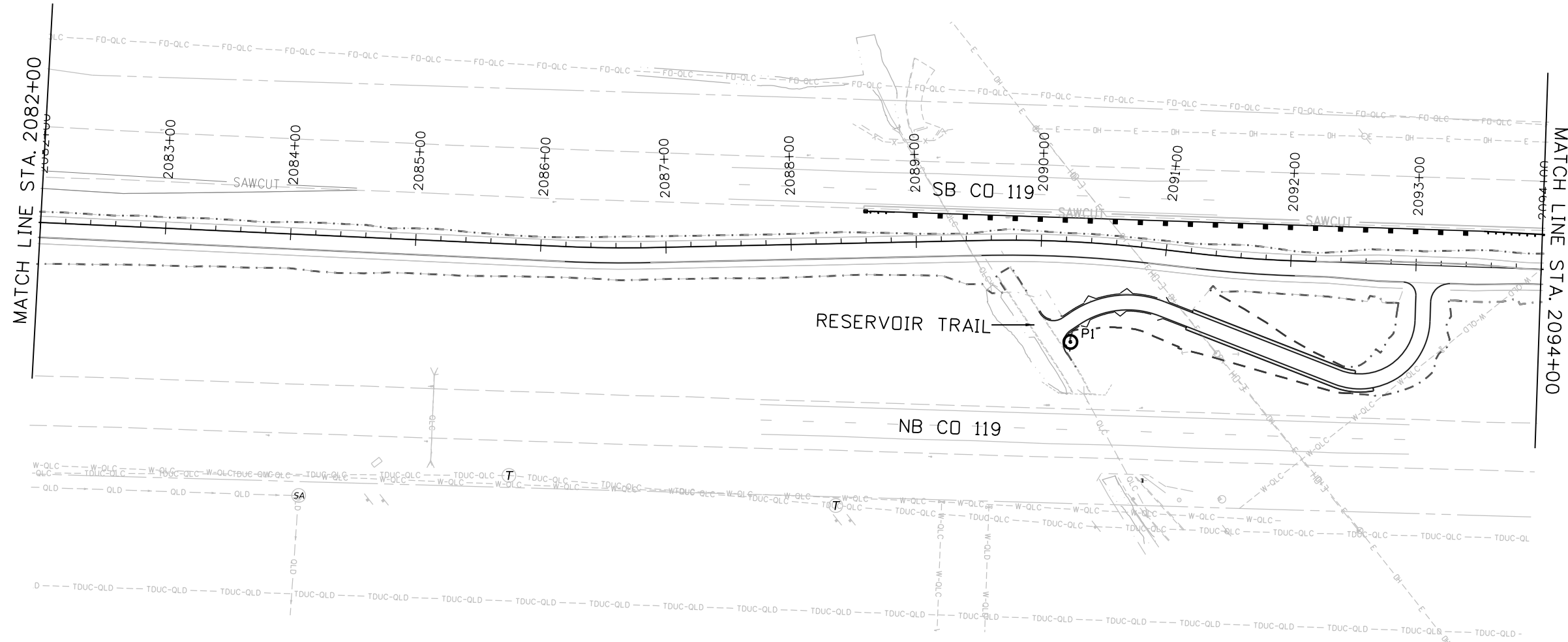
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CLANTON & ASSOCIATES LIGHTING DESIGN AND ENGINEERING
 489 NAPLES COUNTY SOUTH STE. 102
 BOULDER, CO 80501
 303-534-7229

| Sheet Revisions | | |
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| As Constructed | CD 119 BIKEWAY | | Project No./Code |
| No Revisions: | BIKEWAY LIGHTING & ELECTRICAL PLANS | | |
| Revised: | Designer: DR | Structure Numbers | Sheet Number 165 |
| Void: | Detailer: MC | Subset Sheets: 15 of 46 | |

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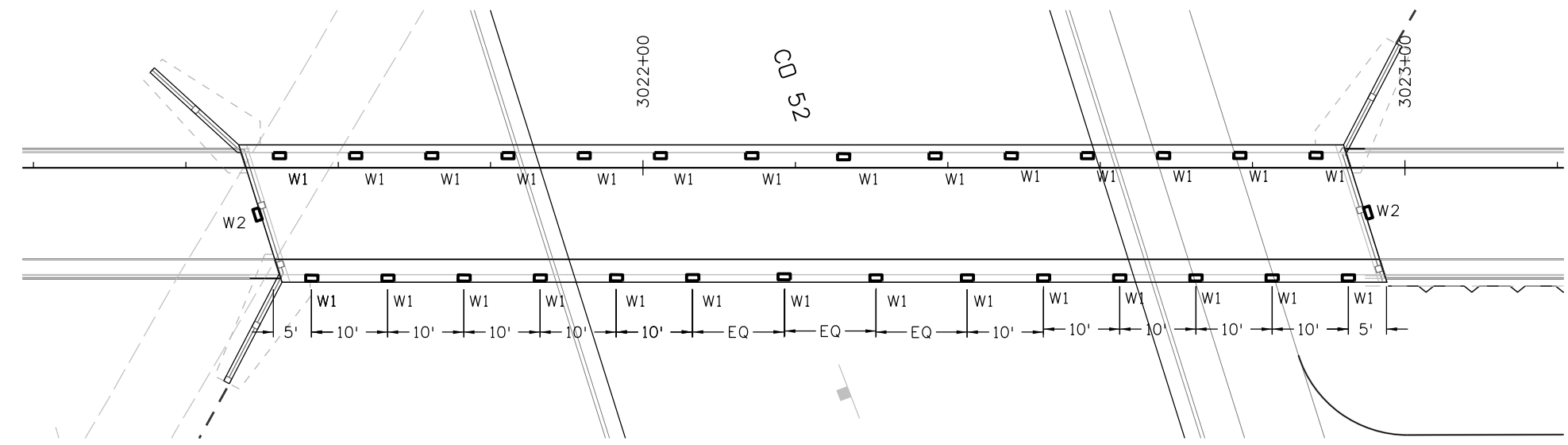
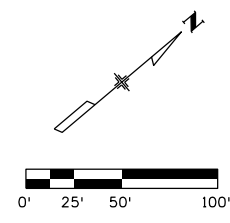
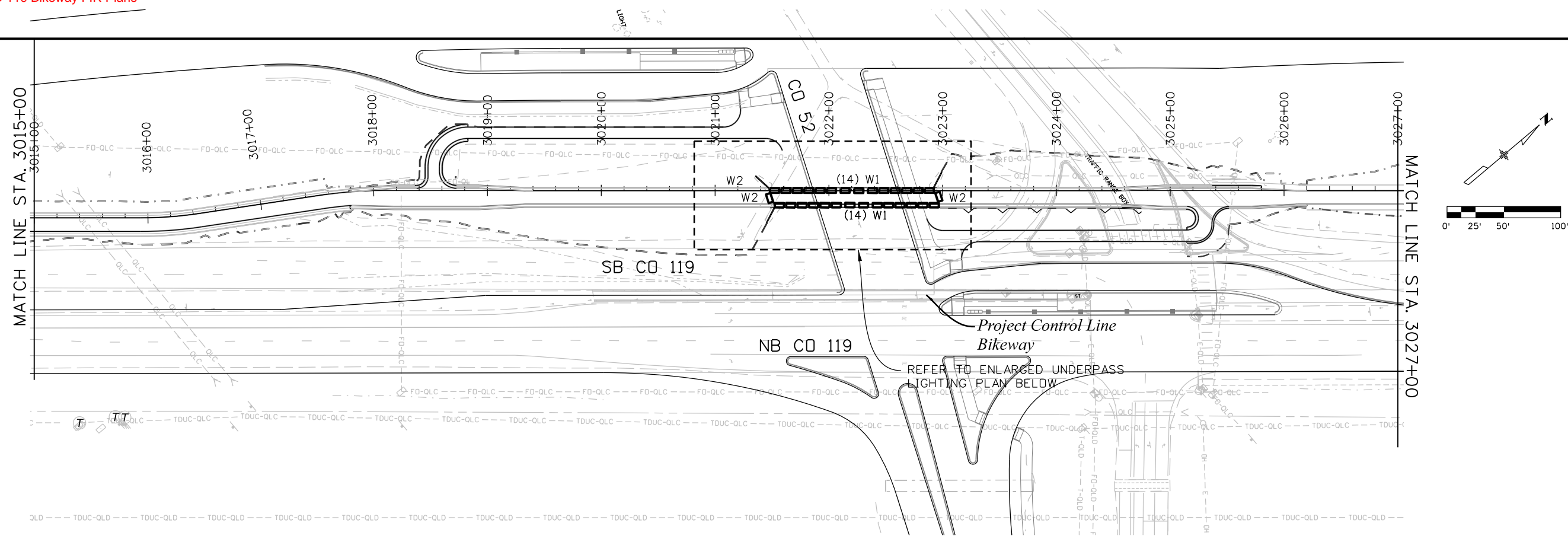


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| CD 119 BIKEWAY | |
| BIKEWAY LIGHTING & ELECTRICAL PLANS | |
| Designer: DR | Structure Numbers |
| Detailer: MC | |
| Sheet Subset: LIGHTING | Subset Sheets: 17 of 46 |

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|------------------|
| Project No./Code |
| Sheet Number 166 |

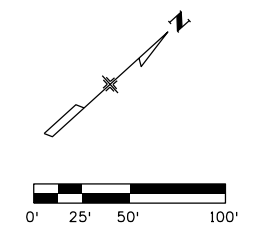
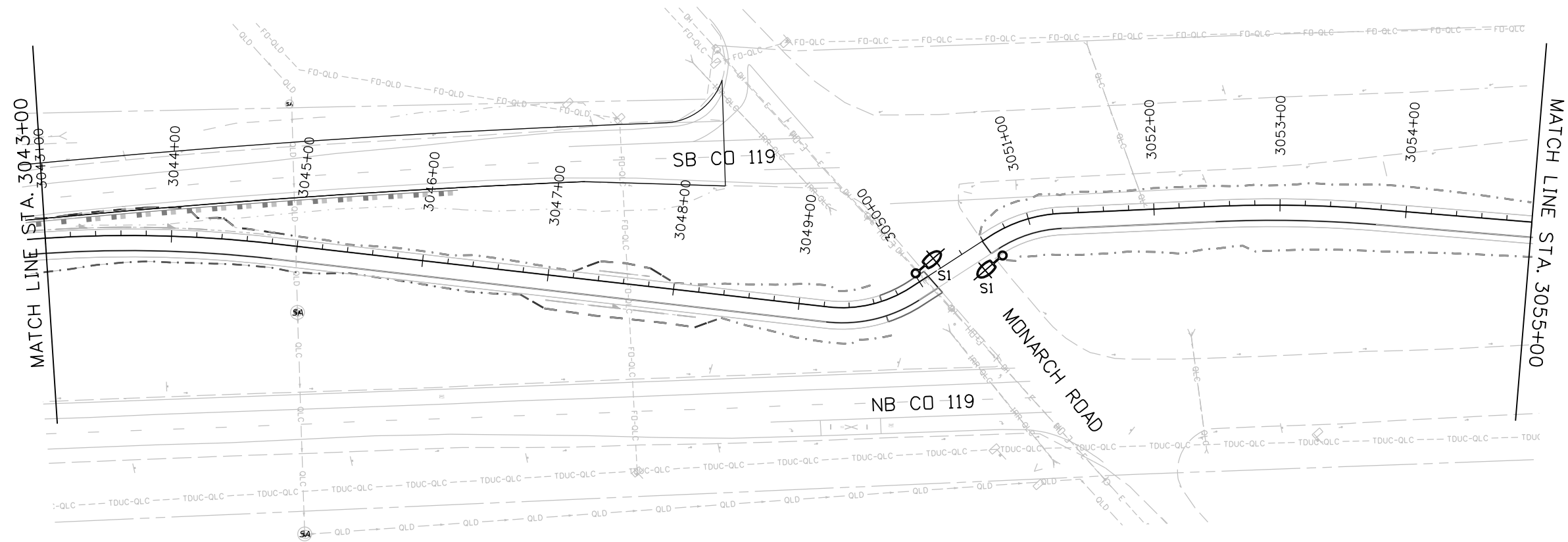
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ENLARGED UNDERPASS LIGHTING PLAN



| All seals for this set of drawings are applied to the cover page(s) | Print Date: 6/28/2022 | Sheet Revisions <table border="1"> <thead> <tr> <th>Date:</th> <th>Comments</th> <th>Init.</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table> | | | Date: | Comments | Init. | | | | | | | | | | As Constructed | | CD 119 BIKEWAY | | Project No./Code |
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| File Name: 400_21015_LT_Bkwy Pln 21.dgn | No Revisions: | | BIKEWAY LIGHTING & ELECTRICAL PLANS | | Structure Numbers | | | | | | | | | | | | | | | | |
| Horiz. Scale: Vert. Scale: As Noted | Revised: | | | | Designer: DR | Sheet Subst: LIGHTING | | Subset Sheets: 21 of 46 | | | | | | | | | | | | | |
| Unit Information | Void: | | Detailer: MC | Sheet Number 167 | | | | | | | | | | | | | | | | | |
| CLANTON & ASSOCIATES LIGHTING DESIGN AND ENGINEERING <small>489 NAPLES COUNTY SOUTH STE. 102 BOULDER, CO 80501 303-442-7200</small> | | | | | | | | | | | | | | | | | | | | | |



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| Print Date: 6/28/2022 |
| File Name: 400_21015-LT_Bkwy Pln 23.dgn |
| Horiz. Scale: 1"=100' Vert. Scale: As Noted |
| Unit Information |
| CLANTON & ASSOCIATES LIGHTING DESIGN AND ENGINEERING 489 N. FULCRUM COUNTY SOUTH STE. 102 BOULDER, CO 80501 303-440-2299 |

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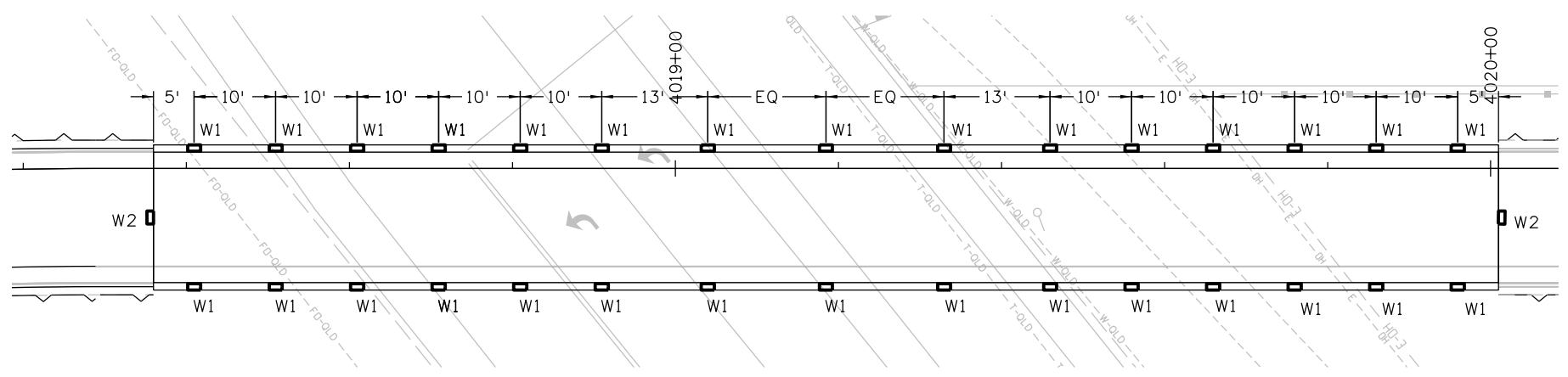
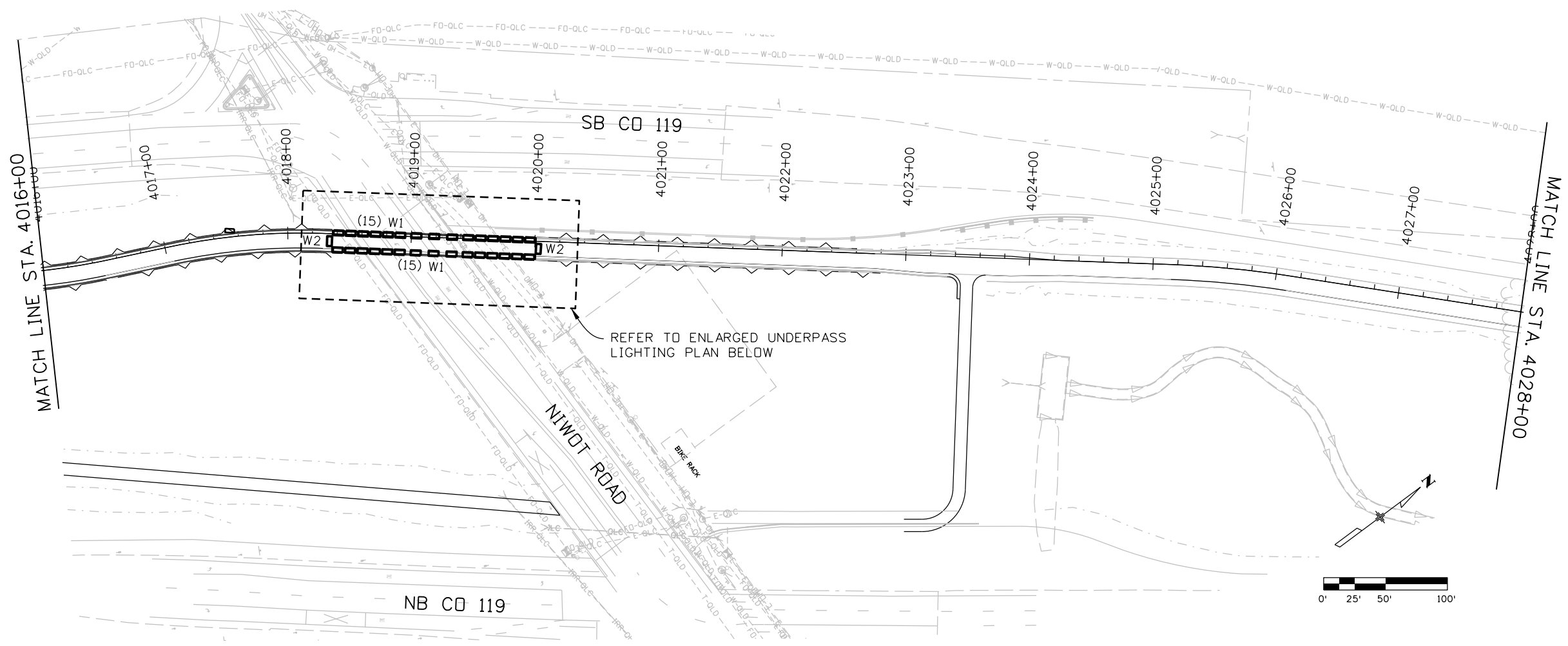


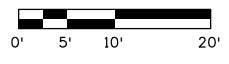
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| CD 119 BIKEWAY | | | |
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ENLARGED UNDERPASS LIGHTING PLAN 



Print Date: 6/28/2022
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489 N. HUNTER COUNTY SOUTH STE. 102 BOULDER, CO 80501 303-534-7229

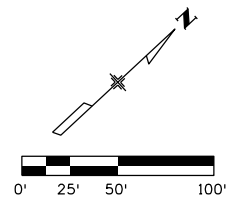
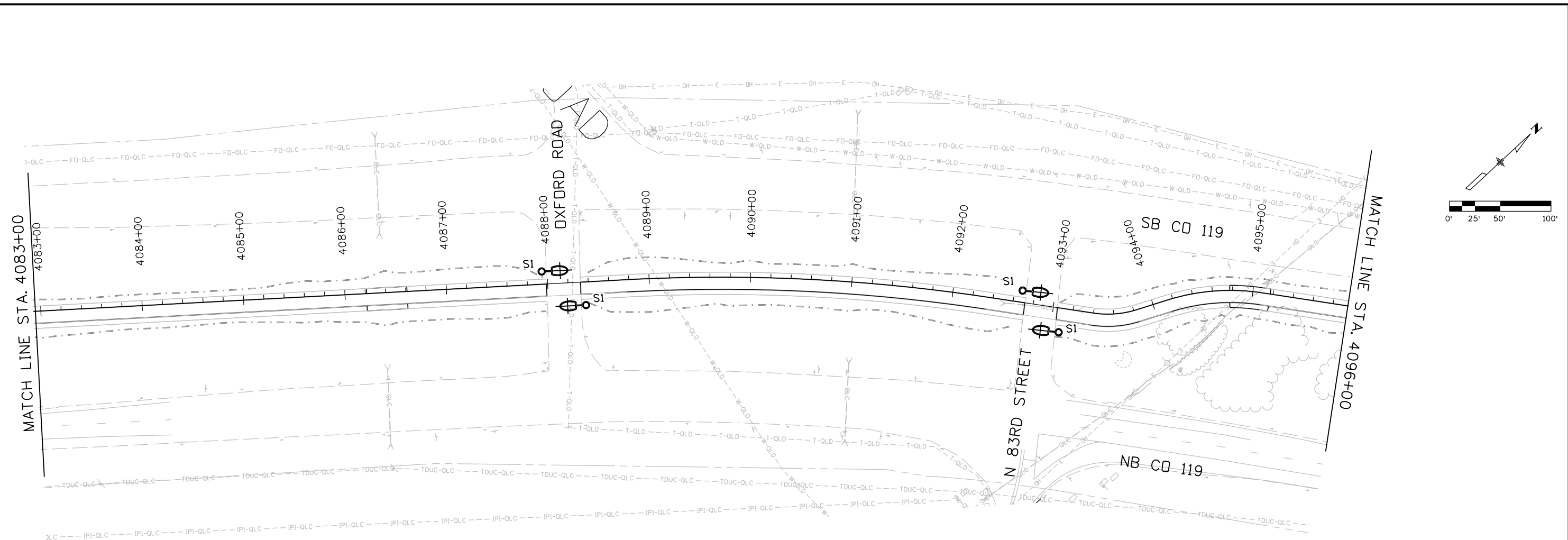
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BIKEWAY LIGHTING & ELECTRICAL PLANS
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 Detailer: MC
 Sheet Subset: LIGHTING
 Structure Numbers
 Subset Sheets: 26 of 46

Project No./Code
 Sheet Number **169**

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| Print Date: 6/28/2022 |
| File Name: 400_21015_LT_Bkwy Pln 32.dgn |
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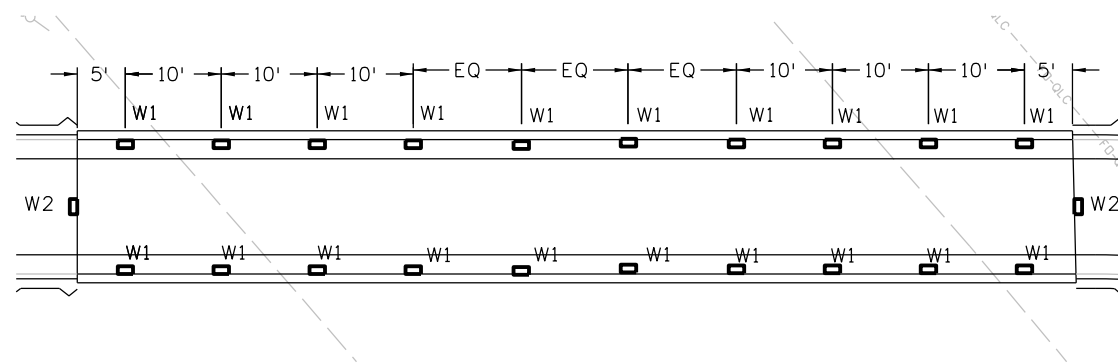
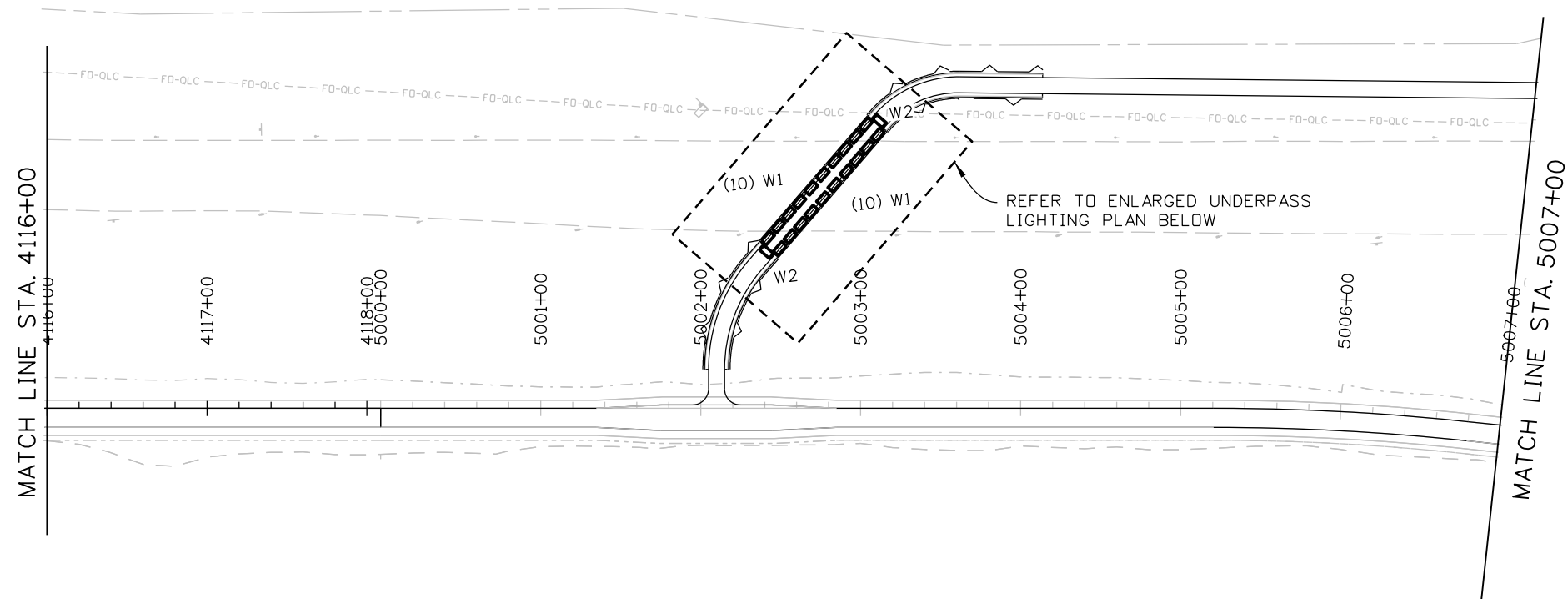


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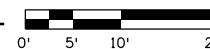
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| Detailer: | MC | Numbers | |
| Sheet Subset: | LIGHTING | Subset Sheets: | 32 of 46 |

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| Project No./Code |
| Sheet Number 170 |

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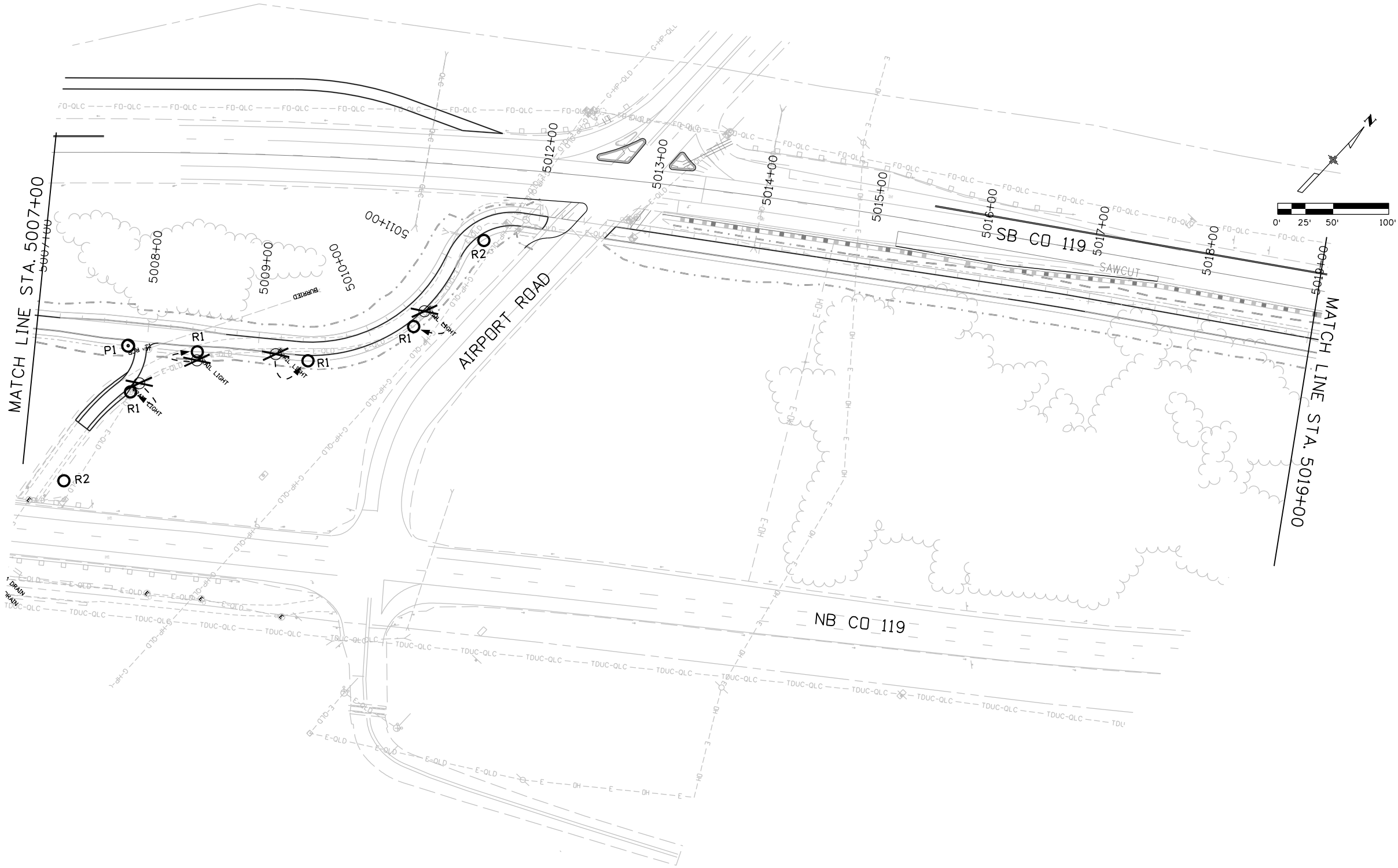


ENLARGED UNDERPASS LIGHTING PLAN



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| | File Name: 400_21015_LT_Bkwy Pln 35a.dgn | | | | | No Revisions: | | BIKEWAY | | |
| | Horiz. Scale: Vert. Scale: As Noted | Revised: | | LIGHTING & ELECTRICAL PLANS | | Designer: DR | Structure | Subset Sheets: 35a of 46 | | |
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| Print Date: 6/28/2022 |
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| Horiz. Scale: 1"=100' Vert. Scale: As Noted |
| Unit Information |
| CLANTON & ASSOCIATES LIGHTING DESIGN AND ENGINEERING 489 N. WILSON COUNTY SOUTH STE. 102 BOULDER, CO 80501 303-534-7200 |

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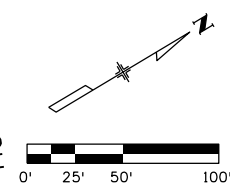
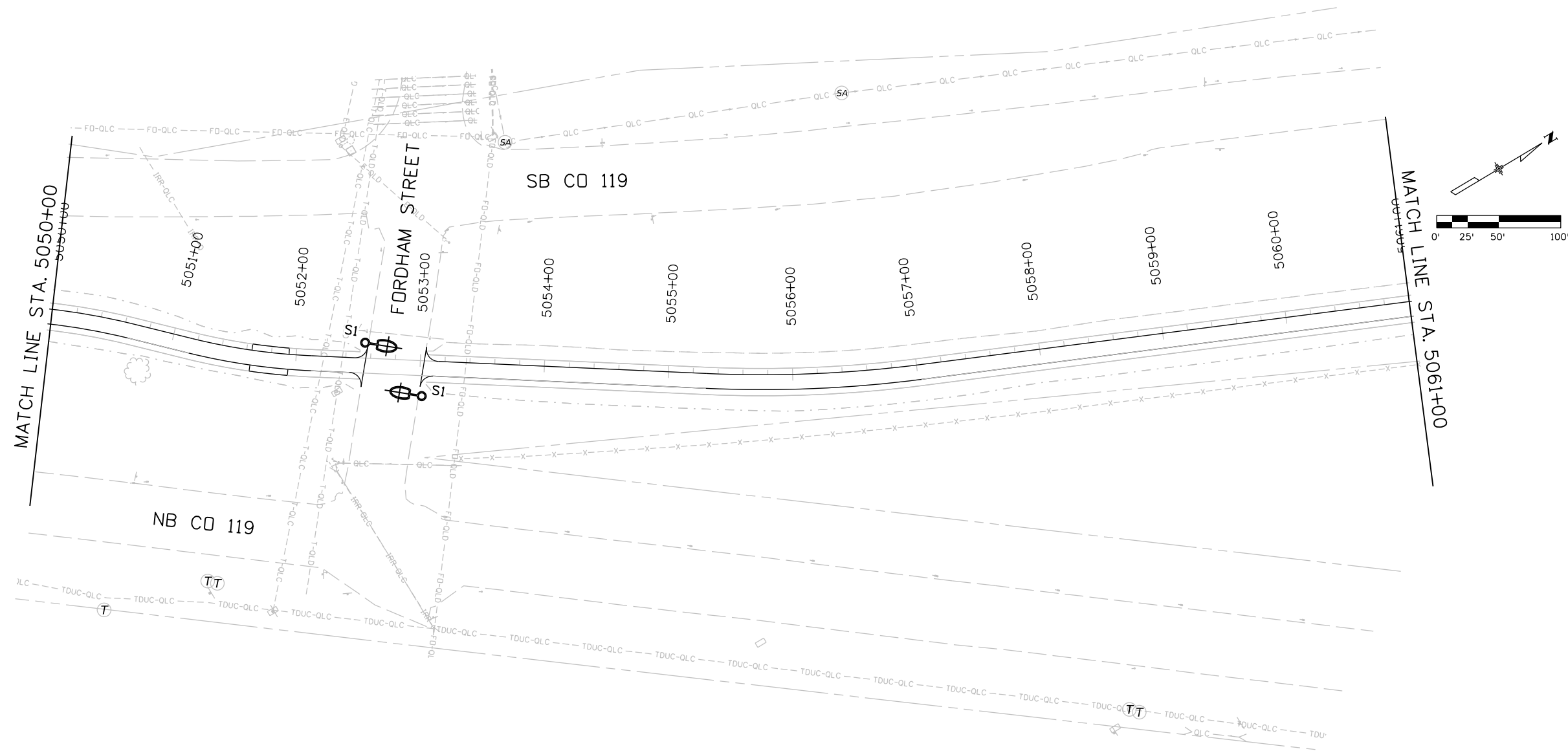


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| CD 119 BIKEWAY | | | |
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| File Name: 400_21015_LT_Bkwy Pln 40.dgn |
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| Unit Information |
| CLANTON & ASSOCIATES LIGHTING DESIGN AND ENGINEERING 489 W. PLATEAU COUNTY SOUTH STE. 102 BOULDER, CO 80501 303-534-7229 |

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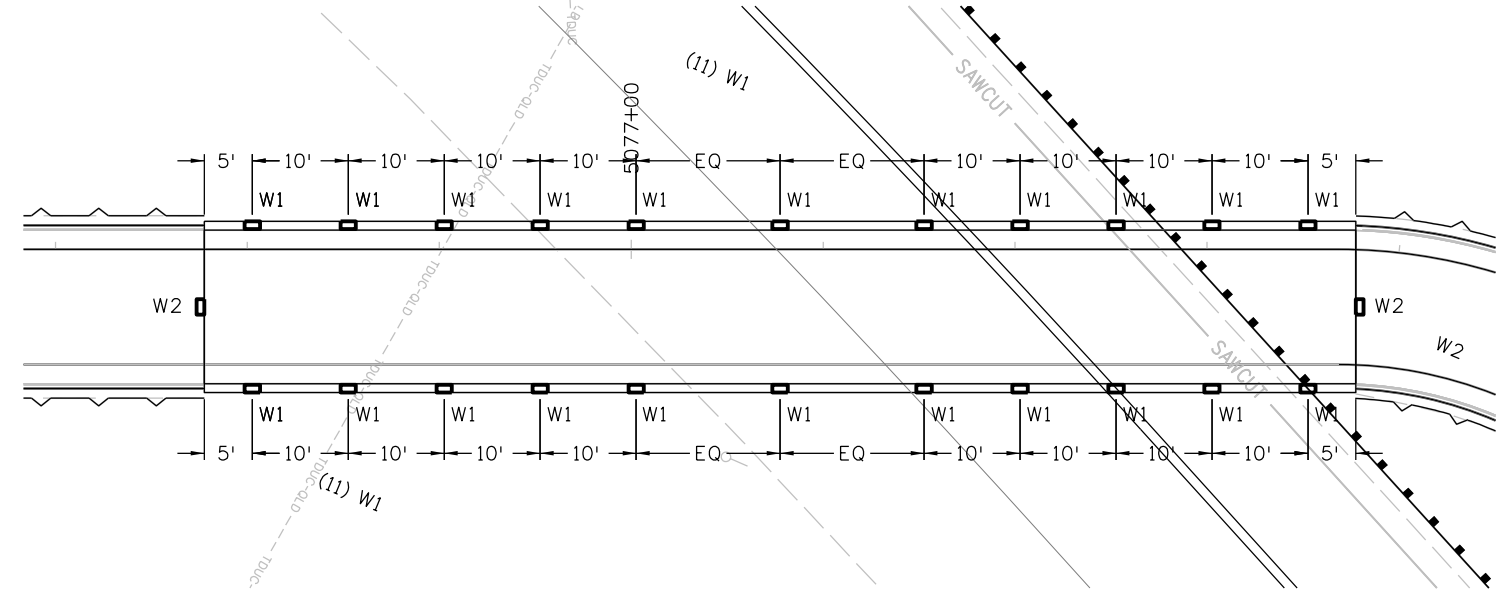
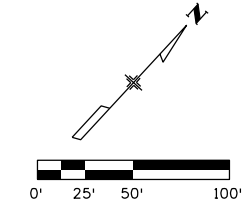
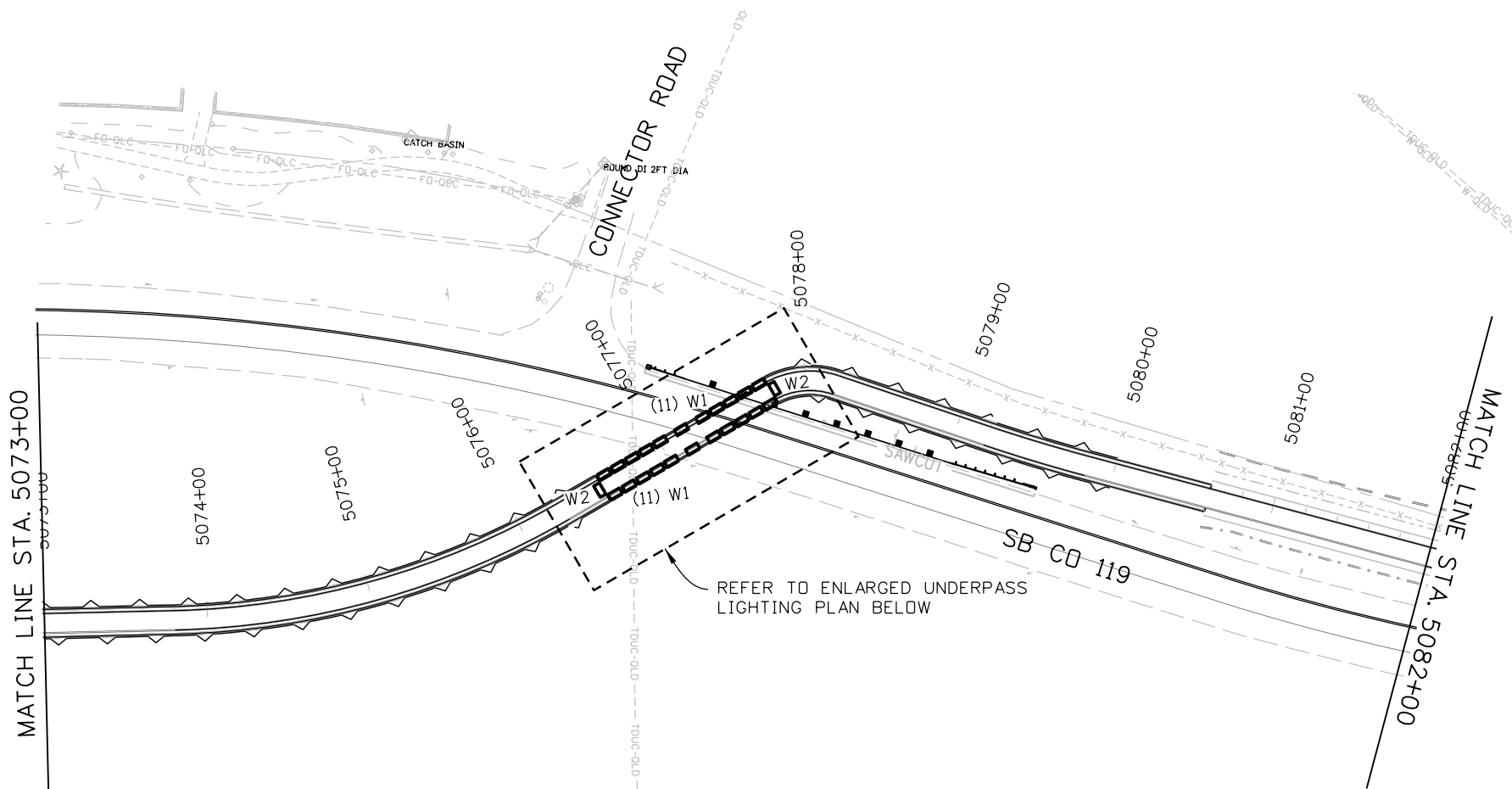


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| All seals for this set of drawings are applied to the cover page(s) | Print Date: 6/28/2022 File Name: 400_21015_LT_Bkwy Pln 42.dgn | Sheet Revisions | | | | As Constructed | | CD 119 BIKEWAY BIKEWAY LIGHTING & ELECTRICAL PLANS | | Project No./Code |
| | Horiz. Scale: 1"=100' Vert. Scale: As Noted Unit Information | Date: _____ Comments: _____ Init.: _____ | | | | No Revisions: _____ Revised: _____ Void: _____ | Designer: DR Detailer: MC | Structure Numbers: _____ Subst Sheets: 42 of 46 | Sheet Number 174 | |
| | CLANTON & ASSOCIATES LIGHTING DESIGN AND ENGINEERING 489 W. FULLER COUNTY SOUTH STE. 102 BOULDER, CO 80501 303-584-7229 | | | | | | | | | |

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1. SITE DESCRIPTION

The Contractor shall comply with all CDOT contractual requirements and all requirements associated with the CDPS-SCP on this project. The SWMP Administrator for Construction shall update to reflect current project site conditions.

- A. **PROJECT SITE LOCATION:** The project is located along Colorado State Highway (SH) 119 between the City of Boulder (north of 47th Avenue) and the City of Longmont (south of Hover Street) in Boulder County, Colorado.
- B. **PROJECT SITE DESCRIPTION:** A proposed bikeway trail will be constructed along SH 119, primarily in the highway median. The trail will be approximately fourteen feet wide and paved with concrete. Grading will be necessary for the embankment of the trail although the trail has been designed to match existing grade where possible. Five underpasses will be constructed to allow the trail to pass under major roads. The primary utilities to be installed are stormwater systems.
- C. **PROPOSED SEQUENCING FOR MAJOR CONSTRUCTION ACTIVITIES:** Stabilize all areas that are not paved or landscaped through establishment of vegetation cover. There are multiple areas of dense vegetation and large trees which will be cleared for the proposed trail. Grading for the trail and pouring of the concrete trail will be the primary construction activities throughout the project corridor. Standard surface drainage features will be placed throughout the corridor.

The major construction elements will be constructing the underpasses which will involve excavation under existing crossing roadways (SB SH 119 south of Jay Road, Jay Road, 63rd Street, SH 52, Niwot Road, and SB SH 119 near Connector Road). Pump stations will be needed to drain the underpasses. The project is broken up into five segments. Segment 1 begins at the south end 47th Avenue in Boulder, the segments continue north to Segment 5 ending near Hover Street in Longmont. Segments will be constructed individually. Existing partial or full road closures and underpass work will occur first within a given segment, followed by grading, clearing and grubbing, and pouring concrete for the remainder of the segment. Furthermore, the SH 119 Mobility project will heavily impact the phasing and scope of construction activities at the crossing roadways. Construction for the SH 119 Mobility project is expected to be simultaneous with underpass construction.

- D. **ACRES OF DISTURBANCE:**
 1. Total area of construction site (LOC (PERMITTED AREA)):
 2. Total area of proposed disturbance (LDA):
 3. Total area of seeding:
 4. Total area of pre-project impervious surface:
 5. Total area of final impervious surface:

- E. **EXISTING SOIL DATA:** The primary soil type is a clay loam. The primary Hydrologic Soil Group is C. Regarding erosion potential, the average rock-free K factor is 0.20 indicating a low to moderate potential for erosion.

Data Source(s): National Resource Conservation Service

- F. **EXISTING VEGETATION, INCLUDING PERCENT COVER:**

During design, the SWMP Administrator for Design in consultation with the Engineer will determine if the SWMP Administrator for Design or the SWMP Administrator for Construction will conduct the Vegetation Transects. If the site is disturbed, an Adequate Reference Site(s) may be utilized, refer to the permit.

Pre-Construction Date of survey: _____ Percent Existing Vegetative Cover: _____

Description of existing vegetation: _____

Method for determining percent vegetative cover: _____

Include a map or table showing transect locations, photos documenting pre-Construction vegetative cover, and methodology used to determine existing vegetative cover to SWMP tab 17:

Post-Construction Date of survey: _____ Percent Vegetative Cover: _____

Description of existing vegetation: _____

The method used to determine pre-construction percent cover shall be used to determine post construction percent cover.

Include map or table showing transect locations, photos documenting post-Construction vegetative cover, and methodology used to determine existing vegetative cover to SWMP tab 17:

- G. **POTENTIAL POLLUTANTS SOURCES:** Refer to Potential Pollutant Sources in SWMP Section 4A. The SWMP Administrator for Construction shall prepare a list of all potential pollutants and their locations in accordance with subsection 107.25.

- H. **DRAINAGE PATTERNS AND RECEIVING WATER(S):**

1. Description of drainage patterns from the site: Runoff within the SH 119 median generally reaches a well-defined ditch or general drainage path in the median of SH 119. Runoff is conveyed beyond SH 119 via open irrigation or stormwater ditches which are piped under SH 119 or runoff directly reaches major creeks.

2. Names of immediate receiving water(s) on site: Receiving waters include Fourmile Creek, Dry Creek, Lefthand Creek, Boulder and Whiterock Ditch, and many other minor irrigation lines. The only municipal stormwater system directly receiving water is located at the intersection of Airport Road and SH 119.

Lefthand Creek and Dry Creek have 303(d) designation per CDPHE.

3. Description of all stream crossings located within the Construction Site Boundary:

| Location | Stream Name | Description of Any Disturbed Upland Areas |
|-----------------|--------------------------------|---|
| MP 45 | Fourmile Creek | Disturbed land due to grading for bike path including increase in impervious area |
| MP 47 | Dry Creek | Disturbed land due to grading for bike path including increase in impervious area |
| MP 52 and MP 53 | Lefthand Creek (crosses twice) | Disturbed land due to grading for bike path including increase in impervious area |

- I. **ALLOWABLE NON-STORMWATER DISCHARGES:**

| Discharge Description | Site Map # | Method Statement (Location) |
|--|------------|-----------------------------|
| Uncontaminated Spring | | |
| Concrete Wash Water (in-ground washout structure)# | | |
| Landscape Irrigation Return Flows | | |
| Discharges from Diversions of State Waters | | |
| Emergency Fire Fighting | | |

#Concrete washout water associated with the washing of concrete tools and concrete mixer chutes can be discharged to the ground if site is managed accordingly to prevent water from leaving the site as surface runoff or reaching receiving waters.

- J. **DIVERSION CRITERIA:**

1. Is a diversion planned for the Site? No
2. If yes, complete information below:
 - a. What is the 2-year peak flow for the waterway being diverted (cubic feet per second)? N/A
 - b. What are the monthly averages if available? N/A
 - c. What is the upstream contributing drainage area and imperviousness? N/A

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| All seals for this set of drawings are applied to the cover page(s) | Print Date: 6/28/2022 | Sheet Revisions | | | | As Constructed | | CD 119 BIKEWAY | | Project No./Code |
| | File Name: 700_21015_SW Notes 1.dgn | Date: | Comments | Init. | | No Revisions: | | STORMWATER MANAGEMENT PLAN | | |
| | Horiz. Scale: _____ Vert. Scale: As Noted | | | | | Revised: | Designer: ACF | Structure Numbers | | |
| | Unit Information | | | | | Void: | Detailer: PDP | Subset Sheets: 1 of 7 | | |
| | | | | | Sheet Subset: SWMP | | Sheet Number 175 | | | |

d. A method statement must be prepared by the Contractor and approved by CDOT for each diversion. Diversion structures must minimize soil transport and erosion within the entire diversion, minimize erosion during discharge, and minimize run-on into the diversion and meet the conditions in the SCP.

K. **ALTERNATIVE TEMPORARY STABILIZATION SCHEDULE:** If applicable, provide a description of the alternative temporary stabilization schedule. If temporary stabilization exceeds the 14-day schedule, then the SWMP must document the constraints necessitating the alternative schedule, provide the alternative schedule, and identify all the locations where the alternative schedule is applicable to the site map. Alternative temporary stabilization schedules must be approved by CDOT prior to implementation.

2. SITE MAP COMPONENTS:

Pre-construction

- A. **PROJECT CONSTRUCTION POTENTIAL SITE BOUNDARIES:** See SWMP Site Maps
- B. **FLOW ARROWS THAT DEPICT STORMWATER FLOW DIRECTIONS ON-SITE, RUN-ON, AND RUNOFF DIRECTION:** See SWMP Site Maps
- C. **ALL AEAS OF GROUND SURFACE DISTURBANCE:** See SWMP Site Maps
- D. **AREAS OF CUT AND FILL:** See SWMP Site Maps
- E. **AREAS USED FOR STORING AND STOCKPILING OF MATERIALS, STAGING AREAS (field trailer, fueling, etc.) and LOCATIONS OF ALL WASTE ACCUMULATION and BATCH PLANTS INCLUDING MASONRY MIXING STATIONS:** To be determined by the Contractor
- F. **LOCATION OF ALL STRUCTURAL CONTROL MEASURES IDENTIFIED IN THE SWMP:** See SWMP Site Maps
- G. **LOCATION OF NON-STRUCTURAL CONTROL MEASURES AS APPLICABLE IN THE SWMP:** See SWMP Site Maps
- H. **SPRINGS, STREAMS, WETLANDS, DIVERSIONS, AND OTHER STATE WATERS, INCLUDING AREAS THAT REQUIRE PRE-EXISTING VEGETATION BE MAINTAINED WITHIN 50 FEET OF A RECEIVING WATER:** See SWMP Site Maps
- I. **LOCATION OF ALL STREAM CROSSINGS LOCATED WITHIN THE CONSTRUCTION SITE BOUNDARY:** See SWMP Site Maps
- J. **PROTECTION OF TREES, SHRUBS, SENSITIVE HABITAT, AND CULTURAL RESOURCES:** See SWMP Site Maps
- K. **LOCATIONS WHERE ALTERNATIVE TEMPORARY STABILIZATION SCHEDULES APPLY:** To be determined by the contractor

3. QUALIFIED STORMWATER MANAGERS:

A. **SWMP ADMINISTRATOR FOR DESIGN:** CDOT Certified Individual responsible for developing SWMP Plan Sheets and SWMP Site Maps during the design phase.

| Name/Title | Contact Information | Certification # |
|---------------------|---------------------------------------|-----------------|
| Alejandra Ferrufino | aferrufino@mullereng.com 303-901-1409 | AA796DFF |

B. **SWMP Administrator for Construction:** (As defined in Subsection 208) The Contractor shall designate a SWMP Administrator for Construction upon accepting co-permittee of the permit. The SWMP Administrator for Construction shall become the operator for the SWMP and assume responsibility for all design changes to the SWMP implementation and maintenance in accordance to 208.03, the SWMP shall remain the property of CDOT. The SWMP Administrator for Construction shall be responsible for implementing, maintaining and revising SWMP, including the title and contact information. The activities and responsibilities of the SWMP Administrator for Construction shall address all aspects of the project's SWMP. (Update the information below for each new SWMP Administrator for Construction) (A copy of TECS Certification must be included in the SWMP.)

| Name/Title | Contact Information (phone & email) | Certification # | Start Date | Engineer Approval |
|------------|-------------------------------------|-----------------|------------|-------------------|
| | | | | |

C. **EROSION CONTROL INSPECTOR:** (As defined in Subsection 208) The Contractor may designate an Erosion Control Inspector. The Erosion Control Inspector shall complete duties in accordance with subsection 208.03 (c) (Copy of TECS Certification must also be included in the SWMP.)

| Name/Title | Contact Information (phone & email) | Certification # | Start Date | Engineer Approval |
|------------|-------------------------------------|-----------------|------------|-------------------|
| | | | | |

D. **PERMANENT STABILIZATION SUBJECT MATTER EXPERT:** This qualified individual will either be a Regional Environmental Staff Member, or an independent Contractor Controller (Independent Assurance Program). This expert is a project team leader responsible for ensuring project adherence to the requirements of the 207 and 212 Project Special Provisions as follows and will be available for questions regarding permanent stabilization requirements.

<https://www.codot.gov/programs/environmental/assets/construction-phase-inspection-and-verification-checklist-for-successful-roadside-revegetation>

1. Review the Topsoil Management Plan and the Permanent Stabilization Site Maps.
2. Attend the Environmental Pre-Construction Conference.
3. Coordinate the Site Pre-Vegetation Conference.
4. Review and recommend approval of products.
5. Review and recommend approval of the Quantities Verification Prerequisite.
6. Attend the Partial Landscape Completion Walkthrough.
7. Attend the Final Landscape Completion Walkthrough.

| Name/Title | Contact Information |
|------------|---------------------|
| | |

4. STORMWATER MANAGEMENT CONTROLS FIRST CONSTRUCTION ACTIVITIES

THE CONTRACTOR SHALL PERFORM THE FOLLOWING:

- A. **POTENTIAL POLLUTANT SOURCES:** Evaluate, identify, locate and describe all potential sources of pollutants at the site in accordance with subsection 107.25, CDPS-SCP and place in the SWMP. All control measures related to potential pollutants shall be shown on the SWMP Site Map by the Contractor's SWMP Administrator for Construction.
- B. **OFFSITE DRAINAGE (RUN ON WATER):** Describe and record control measures on the SWMP Site Map that have been implemented to address off site run-on water in accordance with subsection 208.03.
- C. **VEHICLE TRACKING PAD/VEHICLE TRACKING CONTROL** Control measures shall be implemented in accordance with subsection 208.04.
- D. **PERIMETER CONTROL**
 1. Perimeter control shall be established as the first item on the SWMP to prevent the potential for pollutants leaving the construction site boundaries, entering the stormwater drainage system, or discharging to state waters. Perimeter control shall be in accordance with subsection 208.04
 2. Perimeter control may consist of berms, silt fence, erosion logs, existing landforms, or other control measures as approved.

5. DURING CONSTRUCTION

RESPONSIBILITIES OF THE SWMP Administrator for Construction: Considered a "living document," the SWMP is continuously reviewed and modified throughout the construction phases. During construction, SWMP Administrator for Construction shall add, update, or amend the items A-F below as needed in accordance with subsection 208.06.

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| | File Name: 700_21015_SW Notes 2.dgn | | Date: | Comments | Init. | | No Revisions: | | STORMWATER MANAGEMENT PLAN | | |
| | Horiz. Scale: Vert. Scale: As Noted | | | | | | Revised: | Designer: ACF | Structure Numbers | | |
| | Unit Information | | | | | | Void: | Detailer: PDP | Subset Sheets: 2 of 7 | | |
| | | | | | | | | | | | Sheet Number 176 |

During construction, indicate how items that were not addressed during design are being handled in construction. If items are covered in other sections of the SWMP, indicate below what section the discussion takes place.

- A. **MATERIALS HANDLING AND SPILL PREVENTION AND RESPONSE PLAN:** Prior to construction commencing the contractor shall submit a Spill Response Plan, see subsection 208.06. Materials handling shall be in accordance with subsection 208.06.
- B. **OTHER CDPS PERMITS:** List applicable CDPS permits associated with the permitted site and activities.
- C. **STOCKPILE MANAGEMENT:** Shall be done in accordance with subsection 107.25 and 208.07
- D. **CONCRETE WASHOUT:** Concrete washout water or waste from field laboratories and paving equipment shall be contained in accordance with subsection 208.05.
- E. **SAW CUTTING:** Shall be done in accordance with subsection 107.25, 208.04, 208.05
- F. **STREET SWEEPING:** Shall be done in accordance with subsection 208.04

6. INSPECTIONS

- A. Water Quality Inspections shall be in accordance with subsection 208.03(c).
- B. Permanent Stabilization Inspections shall be in accordance with subsections 208.04(e)4 and 208.10.

7. CONTROL MEASURE MAINTENANCE

- A. Maintenance shall be in accordance with subsection 208.04(f).

8. RECORD KEEPING

- A. Records shall be kept in accordance with subsection 208.03(d).

9. INTERIM, PERMANENT STABILIZATION and LONGTERM STORMWATER MANAGEMENT

The Contractor shall comply with all interim stabilization and permanent stabilization requirements in accordance with subsection 208.04(e).

- A. **SEEDING PLAN:** To be determined for 90% design

The following seed mix(es) and rates are for drill seeding method, as shown on the Permanent Stabilization Site Maps, shall be used:

| COMMON NAME | BOTANICAL NAME | LBS. PLS PER ACRE |
|--------------|----------------|-------------------|
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| TOTAL | | |

- B. **SEEDING APPLICATION:** The following seeding methods shall be used for all areas shown on the Permanent Stabilization Site Maps. Soil compaction shall be minimized for areas where permanent stabilization will be achieved through vegetative cover.

| Pay Item | SEEDING METHOD (subsection 212.05) | ACRE |
|-----------|------------------------------------|------|
| 212-00706 | Seeding (Native) Drill | |
| 212-00707 | Seeding (Native) Hydraulic | |
| 212-00708 | Seeding (Native) Broadcast | |
| 212-00709 | Seeding (Wetland) Drill | |
| 212-00710 | Seeding (Wetland) Hydraulic | |
| 212-00711 | Seeding (Wetland) Broadcast | |
| | TOTAL | |

- C. **SOIL STABILIZATION METHODS:** Minimum soil stabilization methods (attached mulch) for all disturbances to receive seeding.

1. Apply a minimum of 2 tons/ac certified weed free hay or 2½ tons/ac of certified weed free straw and mechanically crimp into the soil in combination of with natural mulch tackifier in accordance with Section 213. Prior to winter shutdown or the summer seeding window closure: Uncompleted slopes shall be mulched with 2 tons of mulching (weed free) per acre, mechanically crimped into the topsoil in combination with an organic mulch tackifier in accordance with Sections 208 and 213.
2. Apply Spray-on Mulch Blanket hydraulically in accordance with Section 213.
3. Apply Bonded Fiber Matrix hydraulically in accordance with Section 213.
4. Install Soil Retention Blankets in accordance with Standard Plan M-216-1 and Section 216.

- D. **SPECIAL REQUIREMENTS:**

1. Soil amendments, seedbed preparation, and permanent stabilization mulching shall be accomplished within four working days of placing the topsoil on the de-compacted civil subgrades. If placed topsoil is not mulched with permanent stabilization mulch within four working days, the Contractor shall complete interim stabilization methods in accordance with subsection 208.04(e) at no additional cost to the Department.
2. Complete permanent stabilization mulching within 24 hours of hydraulic application of native seed.
3. The Contractor shall submit a proposed Permanent Stabilization Phasing Plan to the Engineer for approval showing how implementation of SWMP Permanent Stabilization Plans will minimize damage to seeded areas.

- E. **SOIL AMENDMENT REQUIREMENTS:** Minimum amendment material requirements for all disturbances to receive seeding.

TBD Total Acres of Seeding (Native) Drill With Topsoil Generated From Seeding Media and Topsoil (Offsite)

| Pay Item | Description | Amount/Acre | Units | Total For This Method |
|---|-------------|--------------------------------|--------|-----------------------|
| Seeding (Native) Drill Pay Item 212-00706 | 212-00700 | Organic Fertilizer Low N | Pounds | |
| | 212-00701 | Compost (Mechanically Applied) | CY | |
| | 212-00703 | Humate | Pounds | |
| | 212-00704 | Mycorrhizae | Pounds | |
| | 212-00705 | Elemental Sulfur | Pounds | |

TBD Total Acres of Seeding (Native) Hydraulic With Topsoil Generated From Topsoil (Onsite)

| Pay Item | Description | Amount/Acre | Units | Total For This Method |
|---|-------------|--|--------|-----------------------|
| Seeding (Native) Hydraulic Pay Item 212-00707 | 212-00700 | Organic Fertilizer Low N | Pounds | |
| | 212-00702 | Biotic Soil Amendments (Hydraulic Applied) | Pounds | |
| | 212-00703 | Humate | Pounds | |
| | 212-00704 | Mycorrhizae | Pounds | |

TBD Total Acres of Seeding (Native) Broadcast With Topsoil Generated From Seeding Media and Topsoil (Offsite)

| Pay Item | Description | Amount/Acre | Units | Total For This Method |
|---|-------------|--------------------------------|--------|-----------------------|
| Seeding (Native) Broadcast Pay Item 212-00708 | 212-00700 | Organic Fertilizer Low N | Pounds | |
| | 212-00701 | Compost (Mechanically Applied) | CY | |
| | 212-00703 | Humate | Pounds | |
| | 212-00704 | Mycorrhizae | Pounds | |
| | 212-00705 | Elemental Sulfur | Pounds | |

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| | File Name: 700_21015_SW Notes 3.dgn | | | | | | | NO REVISIONS | | STORMWATER MANAGEMENT PLAN | | |
| | Unit Information | | | | | | | Revised: | Designer: ACF | Structure Numbers | | |
| | | | | | | | | Void: | Detailer: PDP | Subset Sheets: 3 of 7 | | |
| | | | | | | Sheet Subset: SWMP | | Sheet Number 177 | | | | |

F. Permanent Stabilization Application Under Structures: Under structures shade patterns should be considered and the use of Median Cover Material (Stone) or other stabilized options with an approved Project Special Provision should be used. See SWMP Site Map for locations.

G. RESEEDING OPERATIONS/CORRECTIVE STABILIZATION:

Prior to stormwater construction work partial acceptance.

1. All seeded areas shall be reviewed by the SWMP Administrator for Construction and or Erosion Control Inspector for bare soils caused by surface or wind erosion. Bare areas caused by surface or gully erosion, blown away mulch, etc. shall be re-graded, seeded, and have the designated mulching applied as necessary, at no additional cost to the project.
2. The Contractor shall maintain seeding/mulch/tackifier/blanket/TRM, mow to control weeds or apply herbicide to control weeds in the seeded areas until Partial Acceptance of the stormwater construction work.

H. LOCATION AND DESCRIPTION OF PLANNED PERMANENT CONTROL MEASURES: Is Permanent Water Quality Required: No

11. NARRATIVES:



Control Measure Matrixes During Construction:

1. Control measure narratives have been included for the CDOT Standard Specifications and Standard Plan M-208 and M-216 along with any non-standard control measures approved during the design process. If a Non-Standard Control Measure not included in the SWMP is proposed and approved by the Engineer the SWMP Administrator for Construction shall do the following: Place an "X" in the column for non-standard and complete a Non-Standard Control Measure Specification and Narrative covering the what, when, where and why the control measure is being used shall be added to the SWMP. The appropriate "X" shall also be added to the implementation phase(s).
2. The SWMP Administrator for Construction shall place an "X" in the column In Use On Site when the control measure has been installed.
3. A "B" in the Initial Activities Column indicates that the control measure shall be installed **before** construction activity starts. Locations and quantities will be discussed during the Environmental Pre-construction Conference with the Regional Water Pollution Control Manager.

10. PRIOR TO PROJECT FINAL ACCEPTANCE

- A. When directed by the Engineer, removal and disposal of temporary control measures shall be included in the cost of work.
- B. At the end of the project, all ditch checks shall consist of either temporary erosion logs (or equivalent) or permanent riprap.
- C. All storm drains shall be cleaned prior to the Final Acceptance of the project. If required, include work in 202-04002 Clean Culvert. [**Check with Region Water Quality staff to see if CLEAN CULVERT PSP is needed and what Pay Item to use.**]
- D. Refer to Specification 208.10 for Items to be completed prior to requesting partial acceptance of water quality work.

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| | File Name: 700_21015_SW Notes 4.dgn | Date: | Comments | Init. | | No Revisions: | | STORMWATER MANAGEMENT PLAN | | |
| | Horiz. Scale: Vert. Scale: As Noted | | | | | Revised: | Designer: ACF | Structure Numbers | | |
| | Unit Information | | | | | Void: | Detailer: PDP | Subset Sheets: 4 of 7 | Sheet Number 178 | |
|  | | | | | Sheet Subset: SWMP | | | | | |

STRUCTURAL Control Measures that may be potentially used on the project for erosion and sediment control; practices may include, but are not limited to:

| APPLICATION, CONTROL MEASURE | NARRATIVE | M-208 STANDARD or "X" for NON-STANDARD | IN USE ON SITE | CONTROL MEASURE IMPLEMENTATION PHASE | | |
|--|--|--|----------------|--------------------------------------|--------------------|-------------------------|
| | | | | INITIAL ACTIVITIES | INTERIM ACTIVITIES | PERMANENT STABILIZATION |
| <i>PROTECTION OF EXISTING WETLANDS Fence (plastic) and erosion logs</i> | Fence (plastic) shall be placed in combination with erosion logs to prevent encroachment of construction traffic and sediment into state waters prior to start of construction disturbances. Fence (plastic) shall be placed adjacent to the wetlands; erosion logs shall be placed between the plastic fence and disturbance area. Logs shall be placed to direct flows away from or filter water running into wetlands from disturbance areas. | | | B | X | |
| <i>PROTECTION OF EXISTING TREES/LANDSCAPING Fence (plastic)</i> | Fence (plastic) shall be used in areas indicated in the plans to prevent encroachment of construction traffic and sediment for the protection of mature trees and/or existing landscaping prior to start of construction disturbances. | | | B | X | |
| <i>CHECK DAM/DITCH CHECK Erosion log, silt berm, silt dike, rock check dam</i> | Placed in ditches immediately upon completion of ditch grading to reduce velocity of runoff in ditch. For existing ditches, place prior to start of construction disturbances. | M-208 | | X | X | |
| <i>STORM DRAIN INLET PROTECTION IN NATIVE SEED AREAS (M-604 Standard Inlets Type C and D)</i> | Erosion logs or aggregate bags placed around inlet grate to prevent sediment from entering inlet. Place prior to construction disturbances to protect existing inlets or immediately upon completion of new inlets. | M-208 | | B | | |
| <i>CULVERT INLET/OUTLET PROTECTION Erosion logs, aggregate bags</i> | Placed at mouth of culvert inlets and over top of culvert at inlet and outlet where disturbance may be occurring adjacent to pipe to prevent sediment laden water from entering pipe or drainage. Place prior to start of construction disturbances. | M-208 | | B | X | X |
| <i>TYPE C, TYPE D AND TYPE 13 PROTECTION Erosion logs, aggregate bags, erosion bales</i> | Placed around inlet grate or slope and ditch paving to prevent sediment from entering inlet. Place prior to start of construction disturbances. | M-208 | | B | X | X |
| <i>STOCKPILE PROTECTION Temporary berm, erosion logs, aggregate bags*</i> | Placed within specified distance, in accordance with subsection 208.06, from toe to contain sediment around stockpile. *Aggregate bags are easily moved and replaced for access during the work day. Place prior to start of stockpile, increase control as stockpile increases size. | M-208 | | | X | |
| <i>TOE OF FILL PROTECTION Erosion logs, temporary berm, silt fence, topsoil windrow*</i> | Place prior to slope/embankment work to capture sediment and protect and delineate undisturbed areas. *Can be used to stockpile topsoil for salvage. | M-208 | | X | X | |
| <i>PERIMETER CONTROL Erosion logs, silt fence, temporary berm, topsoil windrow*</i> | Placed prior to construction commencing to address potential run-on water from off site, and to divert around disturbed area. *Can be used to stockpile topsoil for salvage. | M-208 | | B | X | |
| <i>SEDIMENT CONTROL/SLOPE CONTROL Silt fence, erosion logs</i> | Placed on the contour of a slope to contain and slow down construction runoff. Place prior to start of construction disturbances. | M-208 | | X | X | |
| <i>OUTLET PROTECTION Riprap, or approved other</i> | Material placed as energy dissipator to prevent erosion at outlet structure. | M-601-12 | | | X | X |
| <i>CONCRETE WASHOUT In-ground or fabricated</i> | Construction control used for waste management of concrete and concrete equipment cleaning. Place prior to start of concrete activities. | M-208 | | X | X | |
| <i>VEHICLE TRACKING PAD</i> | Source control placed to prevent tracking of sediment from disturbed area to offsite surface. Place prior to start of construction disturbances. | M-208 | | B | X | |
| <i>DEWATERING (Contractor is responsible for obtaining a permit from Colorado Department of Health and Environment.)</i> | Shall be done in such a manner to prevent potential pollutants from entering state waters. | | | X | X | |
| <i>CLEAN WATER DIVERSION</i> | Placed to divert clean surface or ground water around disturbance area to prevent it from mixing with construction runoff. | | | X | X | |
| <i>OTHER</i> | | | | | | |

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| | File Name: 700_21015_SW Notes 5.dgn | Date: | Comments | Init. | | No Revisions: | STORMWATER MANAGEMENT PLAN | | | |
| | Horiz. Scale: Vert. Scale: As Noted | | | | | Revised: | Designer: ACF | Structure Numbers | | |
| | Unit Information | | | | | Void: | Detailer: PDP | Subset Sheets: 5 of 7 | | Sheet Number 179 |
|  | | | | | Sheet Subset: SWMP | | | | | |

NON-STRUCTURAL Control Measures that may be potentially used on the project for erosion and sediment control; practices may include, but are not limited to: Erosion control devices are used to limit the amount of soil loss on site. Sediment control devices are designed to capture sediment on the project site. Construction controls are control measures related to construction access and staging. Control Measure locations are indicated on the SWMP Site Map.

***Use of vegetative buffer strip requirements.** The CDPHE Water Quality Control Division Technical Memorandum dated August 27, 2015 clarifies the requirements for utilization of existing vegetation as a buffer type of sediment control measure, while maintaining compliance with the CDPS permit for Stormwater Discharges Associated with Construction Activity – CDPS Permit No. COR4000000. In general, the division does not recommend that vegetated buffers be implemented as a sediment removal control measure for runoff from disturbed areas at construction sites, unless implemented as a “finishing” component of a treatment train comprised of additional, adequate up-gradient Control Measures. The entire memorandum can be found at: <https://www.colorado.gov/pacific/sites/default/files/Vegetative%20Buffer%20Memo.pdf>

| APPLICATION, CONTROL MEASURE | NARRATIVE | M-STANDARD or *For NON-STANDARD | IN USE ON SITE | CONTROL MEASURE IMPLEMENTATION PHASE | | |
|--|--|---------------------------------|----------------|--------------------------------------|--------------------|-------------------------|
| | | | | INITIAL ACTIVITIES | INTERIM ACTIVITIES | PERMANENT STABILIZATION |
| <i>TOPSOIL MANAGEMENT STOCKPILE/SALVAGE</i> <i>Windrow or stockpile</i> | Prior to any site disturbance work commencing, existing topsoil shall be scraped to a depth six inches or as specified and placed in stockpiles or windrows. Upon completion of final grading, topsoil shall be evenly distributed over embankment to a depth of six inches or as specified. | M-208 | | X | X | X |
| <i>SEEDING (TEMPORARY)</i> | Temporary stabilization used for over wintering of disturbance or used to control erosion for areas scheduled for future construction. | | | | X | |
| <i>BONDED FIBER MATRIX or MULCHING (HYDRAULIC)</i> | Not to be used in areas of concentrated flows, i.e. ditch lines. To be for either Interim or Permanent Stabilization placed as a surface cover for erosion control. May be used as surface cover when work is temporarily halted and as approved by the Engineer for stockpiles. | | | | X | |
| <i>Straw or Hay MULCH/MULCH TACKIFIER</i> | Interim or Permanent Stabilization placed as a surface cover for erosion control and or seeding establishment. To be installed as Interim Stabilization as a surface cover when work is temporarily halted and as approved by the Engineer | | | | X | X |
| <i>SPRAY-ON MULCH BLANKET (Not to be used in areas of concentrated flows, i.e. ditch lines.)</i> | Interim or Permanent Stabilization placed as a surface cover for erosion control and or seeding establishment. To be installed as temporary surface cover when work is temporarily halted and as approved by the Engineer | | | | X | X |
| <i>SEEDING PERMANENT (NATIVE PERENNIAL)</i> | Permanent Stabilization of disturbance and to reduce runoff and control erosion on disturbed areas. | | | | | X |
| <i>SOIL RETENTION BLANKET (SRB)</i> | Permanent Stabilization of disturbance and to reduce runoff and control erosion on disturbed areas. | M-216 | | | X | X |
| <i>TURF REINFORCEMENT MAT (TRM)</i> | Permanent Stabilization of disturbance and to reduce runoff and control erosion on disturbed areas. Placed in channels or on slopes for erosion control, channel liner and seeding establishment. | M-216 | | | | X |
| <i>Sweeping</i> | Source control used to remove sediment tracked onto paved surfaces and to prevent sediment from entering drainage system. Sweep daily and at the end of the construction shift as needed. Kick brooms shall not be permitted. | | | X | X | X |

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| | File Name: 700_21015_SW Notes 6.dgn | Date: | Comments | Init. | | No Revisions: | STORMWATER MANAGEMENT PLAN | | |
| | Horiz. Scale: Vert. Scale: As Noted | | | | | Revised: | Designer: ACF | Structure Numbers | |
| | Unit Information | | | | | Void: | Detailer: PDP | Subset Sheets: 6 of 7 | Sheet Number 180 |
|  | | | | | Sheet Subset: SWMP | | | | |

12. TABULATION OF STORMWATER QUANTITIES

- A. Control Measure sediment removal and disposal shall be paid for as: 208 Removal and Disposal of Sediment (Equipment) and 208 Removal and Disposal of Sediment (Labor). All other control measure maintenance shall be included in the cost of the control measure.
- B. It is estimated that [100] hours of blading (140-250 horsepower) and dozing (130-250 horsepower) may be required for miscellaneous erosion control work as directed by the Engineer. Work shall be paid for as: 203 Blading.

NOTE: TABULATION OF SWMP QUANTITIES SUBMITTED AS A "LUMP SUM" AT 30% SUBMITTAL. UNIT QUANTITIES WILL BE PROVIDED AT NEXT SUBMITTAL.



13. BIOLOGIC IMPACTS and DEWATERING

- A. **ENVIRONMENTAL IMPACTS:**
 - 1. Wetland Impacts: YES
 - 2. Stream Impacts: YES
 - 3. Threatened and Endangered Species: YES
- B. **DEWATERING:** (Not covered under the CDPHE guidance document *Low Risk Discharge Guidance Discharges of Uncontaminated Groundwater to Land*): <https://www.colorado.gov/pacific/sites/default/files/WQ%20LOW%20RISK%20GW.pdf>
 - 1. Dewatering: Refer to other environmental permits in accordance with subsection 107.02 and the permits contained in Tab 16 of the SWMP.
 - 2. If groundwater does not meet water quality standards for receiving water a separate CDPS Dewatering Permit shall be obtained by the Contractor from CDPHE in accordance with subsections 107.02 and 107.25.

14. NOTES

- A. SWMP Site Map information shown is based upon existing conditions. The Contractor is responsible for making determination as to the accuracy of BMP/Control Measure types and locations shown. The contracted Erosion Control Supervisor shall coordinate with the superintendent and engineer as to the appropriate BMPs/Control Measures and their locations and shall make the updates to the SWMP Site Maps sheets as soon as the changes are known.
- B. Contractor shall use construction fence and barriers around limits of work as necessary to keep pedestrians out of work area and construction vehicles within work area shown on plans.
- C. Contractor shall sweep up sawcut slurry after sawcutting operations to keep it from being transported into existing drainage system.
- D. Vehicle tracking pad and concrete washout area locations shall be determined by the Contractor and drawn on the plans. For the tabulation of stormwater quantities, it was assumed that eight vehicle tracking pads and eight concrete washout areas are needed.
- E. If stabilized staging area is used by the Contractor, the location shall be shown on the plans, with appropriate BMPs/Control Measures.
- F. Inlet protection shall be installed on existing inlets prior to the start of construction. Protection for proposed inlets shall be installed once the inlet is in place.

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| | File Name: 700_21015_SW Notes 7.dgn | Date: | Comments | Init. | | No Revisions: | | STORMWATER MANAGEMENT PLAN | | |
| | Horiz. Scale: Vert. Scale: As Noted | | | | | Revised: | Designer: ACF | Structure Numbers | | |
| | Unit Information | | | | | Void: | Detailer: PDP | Subset Sheets: 7 of 7 | Sheet Number 181 | |
|  | | | | | Sheet Subset: SWMP | | | | | |

CONSTRUCTION TRAFFIC CONTROL NOTES

1. IT IS THE INTENT OF THE TRAFFIC CONTROL NOTES AND PLANS TO CONVEY TO THE CONTRACTOR THE GENERAL, BUT ESSENTIAL, DESIGN ELEMENTS REQUIRED TO CONSTRUCT THE PROJECT. OTHER MINI-PHASES (NOT INDICATED IN THE PLAN SET) USING TEMPORARY LANE CLOSURES MAY BE NECESSARY TO CONSTRUCT THE PROPOSED IMPROVEMENTS. THE CONTRACTOR SHALL SUBMIT TO BOULDER COUNTY FOR REVIEW AND APPROVAL, A METHOD OF HANDLING TRAFFIC (MHT) CONFORMING TO CDOT'S STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND M&S STANDARDS TWO WEEKS PRIOR TO RELATED CONSTRUCTION ACTIVITY.
2. ALL CONSTRUCTION TRAFFIC CONTROL SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, 2009 EDITION, AND APPLICABLE STANDARDS IN THE 2021 COLORADO DEPARTMENT OF TRANSPORTATION STANDARDS AND SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE JULY 2019 COLORADO DEPARTMENT OF TRANSPORTATION STANDARD PLANS M&S STANDARDS.
3. REFER TO CDOT M&S STANDARD PLAN S-630-1, AS REVISED, FOR STANDARD TRAFFIC CONTROL CASES THAT WILL BE REQUIRED TO IMPLEMENT PHASES AND OTHER TRAFFIC CONTROL CONDITIONS. ALL TRAFFIC CONTROL DEVICES SHALL BE PLACED IN ACCORDANCE WITH THE CONSTRUCTION TRAFFIC CONTROL PLANS, THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, 2009 EDITION, AND CDOT M&S STANDARD PLAN S-630-1.
4. THE CONTRACTOR SHALL BEAR RESPONSIBILITY AND EXPENSE FOR MAINTAINING ADEQUATE DRAINAGE AND SAFE DRIVING CONDITIONS AT ALL TIMES. THIS WORK SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF RELATED WORK.
5. APPROPRIATE ADVANCE WARNING SIGNS SHALL BE PLACED AS NEEDED. THESE SHALL BE SHOWN IN THE MHT TO BE APPROVED BY THE ENGINEER.
6. 11' MINIMUM WIDTH FOR LANES SHALL BE MAINTAINED AT ALL TIMES UNLESS APPROVED BY THE ENGINEER.
7. A MINIMUM SHOULDER WIDTH OF 2 FEET SHALL BE PROVIDED BETWEEN THE CHANNELIZING DEVICE AND EDGE OF TRAVEL LANE AT ALL TIMES.
8. UNLESS SHOWN OTHERWISE, MINIMUM REDIRECT TAPER RATES SHALL BE 25:1 AND BAY TAPER RATES SHALL BE 12:1.
9. SLOPES WITHIN THE CLEAR ZONE SHALL BE 3:1 OR FLATTER UNLESS PROTECTED BY CONCRETE BARRIER (TEMPORARY). CONCRETE BARRIER (TEMPORARY) SHALL HAVE BOTH ENDS PROTECTED WITH AN IMPACT ATTENUATOR (TEMPORARY).
10. CONTRACTOR SHALL MAINTAIN SAFE AND REASONABLE ACCESS TO PRIVATE PROPERTIES AT ALL TIMES, UNLESS OTHERWISE APPROVED BY THE ENGINEER AND THE PROPERTY OWNER IN WRITING.
11. EXISTING SIGNS IN CONFLICT WITH THE TEMPORARY LANES SHALL BE COVERED OR RESET AS CONDITIONS REQUIRE FOR EACH CONSTRUCTION PHASE AND AS DIRECTED BY THE ENGINEER. MASKING OF EXISTING SIGNS, INCLUDING THE COVERING MATERIALS AND FASTENING DEVICES, WILL NOT BE MEASURED AND PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE CONSTRUCTION TRAFFIC SIGNS.
12. CONTRACTOR SHALL REFER TO COLORADO DEPARTMENT OF TRANSPORTATION REGION 4 LANE CLOSURE STRATEGY, CURRENT EDITION FOR ALLOWABLE LANE CLOSURE CONDITIONS ON STATE FACILITIES..
13. CONTRACTOR SHALL REFER TO REVISION OF SECTION 108 – LIMITATIONS OF OPERATIONS AND TRAFFIC CONTROL PLAN - GENERAL FOR WORK HOUR AND ADDITIONAL LANE CLOSURE RESTRICTIONS.

SUGGESTED CONSTRUCTION PHASING WORK ITEMS

GENERAL PHASING:

1. IT IS ANTICIPATED THAT WORK DIRECTLY ADJACENT TO CO 119 THAT IMPACTS TRAFFIC CAN BE HANDLED THROUGH USE OF CDOT S-630-1 STANDARD PLAN CASES 5, 8, 10, 24 AND 29.
2. IT IS ANTICIPATED THAT WORK DIRECTLY ADJACENT TO CROSS STREETS THAT IMPACTS TRAFFIC CAN BE HANDLED THROUGH USE OF CDOT S-630-1 STANDARD PLAN CASES 2, 10, AND 26.
3. CONSTRUCTION OF BIKEWAY OUTSIDE CLEAR ZONE IS NOT ANTICIPATED TO IMPACT CO 119 TRAFFIC.

PEDESTRIAN BRIDGES (FOUR MILE CANYON CREEK AND LEFT HAND CREEK):

1. INSTALL CONCRETE BARRIER ALONG INSIDE AND OUTSIDE SHOULDERS OF CO 119 IN THE VICINITY OF THE PEDESTRIAN BRIDGE. BARRIER TO REMAIN IN PLACE FOR CONSTRUCTION DURING REQUIRED BRIDGE EXCAVATION, ABUTMENT CONSTRUCTION, AND WHILE BRIDGE SECTIONS ARE BOLTED TOGETHER.
2. A TEMPORARY CRANE PAD WILL BE INSTALLED ON ONE OR BOTH SIDES OF THE CREEK DEPENDING ON THE CRANE SIZE SELECTED BY THE CONTRACTOR.
3. DELIVER BRIDGE SECTIONS TO THE MEDIAN OF CO 119 AND BOLT TOGETHER.
4. ONCE BRIDGE IS COMPLETE, ALL SB LANES OF CO 119 WILL BE STOPPED WHILE THE BRIDGE IS MOVED INTO POSITION. NIGHT WORK IS PERMITTED FOR THIS ACTIVITY TO REDUCE IMPACTS TO TRAFFIC WITH APPROVAL OF THE ENGINEER. ONCE THE ENGINEER APPROVES THAT THE BRIDGE IS SPANNING SAFELY ON ITS OWN, THE CRANE WILL PROMPTLY BE TAKEN APART AND REMOVED FROM THE SITE.
5. BARRIER PROTECTION ALONG THE OUTSIDE SHOULDERS WILL REMIAN IN PLACE UNTIL THE CONCRETE DECK HAS BEEN PLACED AND THE APPROACH PAVING AND RAILINGS ARE COMPLETE.

UNDERPASSES CROSSING CO 119:

1. PHASE I
 - A. CONSTRUCT DETOUR PAVEMENT ON EAST SIDE OF CO 119.
 - B. INSTALL TRAFFIC CONTROL TO DIVERT TRAFFIC TO DETOUR PAVEMENT.
 - C. COMPLETE PRELIMINARY GRADING IN PREPARATION FOR FIRST PHASE OF CBC INSTALLATION.
 - D. EXCAVATE AREA AND INSTALL NORTH HALF OF CBC.
2. PHASE II
 - A. SHIFT TRAFFIC TO DETOUR OVER THE NEWLY CONSTRUCTED CBC.
 - B. REMOVE DETOUR PAVEMENT AND COMPLETE PRELIMINARY GRADING IN PREPARATION FOR SECOND PHASE OF CBC INSTALLATION.
 - C. EXCAVATE AREA AND INSTALL SOUTH HALF OF CBC.



UNDERPASS AT JAY ROAD:

1. PHASE I
 - A. INSTALL DETOUR PAVEMENT ON SOUTH SIDE OF JAY ROAD.
 - B. INSTALL TRAFFIC CONTROL TO DIVERT TRAFFIC TO DETOUR ALIGNMENT.
 - C. COMPLETE PRELIMINARY GRADING ON NORTH SIDE OF JAY ROAD IN PREPARATION FOR FIRST PHASE OF CBC INSTALLATION.
 - D. EXCAVATE AREA AND INSTALL NORTH HALF OF CBC.
2. PHASE II
 - A. SHIFT TRAFFIC TO THE NORTH SIDE OF JAY ROAD OVER THE NEWLY CONSTRUCTED CBC.
 - B. REMOVE DETOUR PAVEMENT AND COMPLETE PRELIMINARY GRADING ON SOUTH SIDE OF JAY ROAD IN PREPARATION FOR SECOND PHASE OF CBC INSTALLATION.
 - C. EXCAVATE AREA AND INSTALL SOUTH HALF OF CBC.

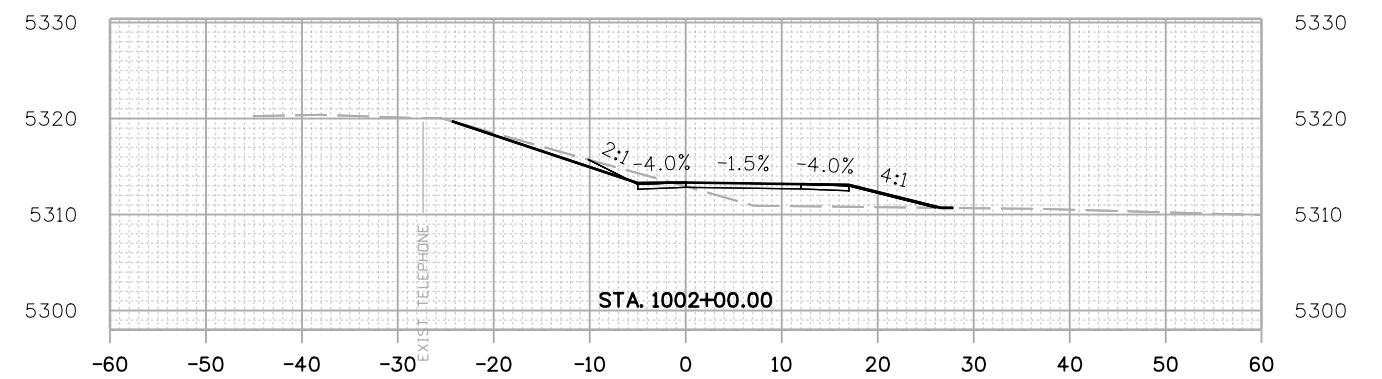
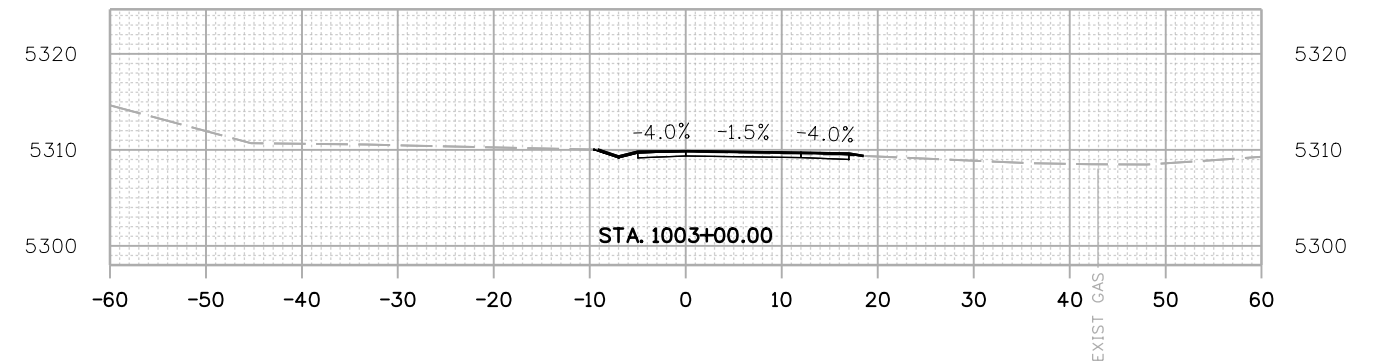
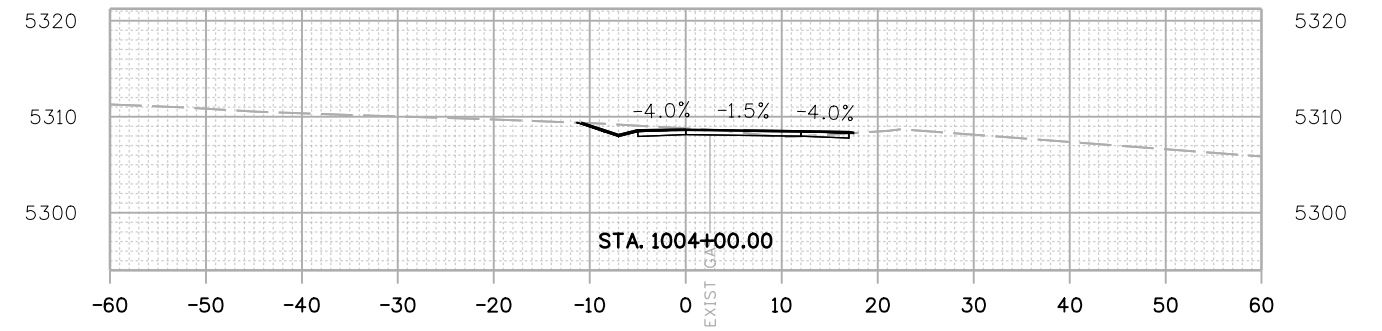
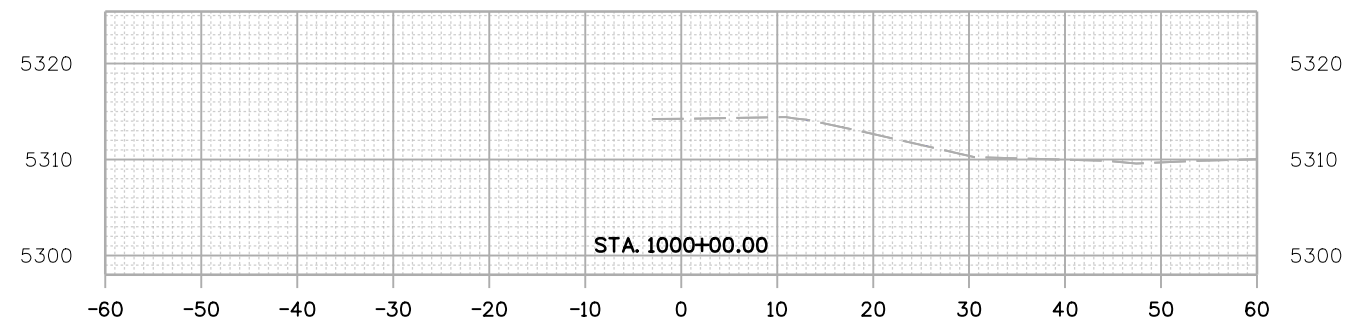
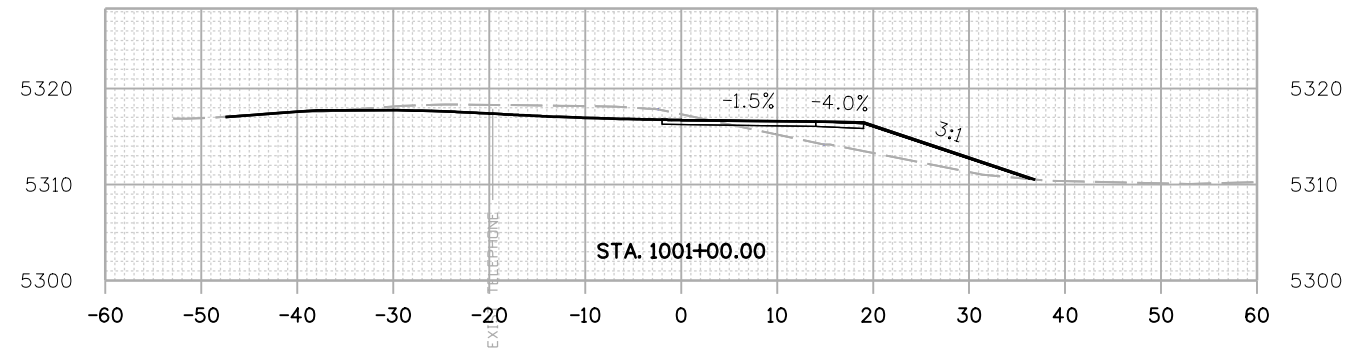
UNDERPASSES AT 63RD STREET, CO 52 AND NIWOT ROAD:

1. THE PHASING OF THE 63RD STREET AND NIWOT ROAD UNDERPASSES WILL BE SHOWN IN CDOT'S CO 119 SAFETY AND MOBILITY PROJECT. CONSTRUCTION WILL BE COORDINATED WITH ADJACENT BRT AND PARKING IMPROVEMENTS.

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| | Unit Information | | | | | Void: | Detailer: CLJ | | | |
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Print Date: 6/28/2022
 File Name: 950_21015_RD_XS_SEG 01.dgn
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CD 119 BIKEWAY

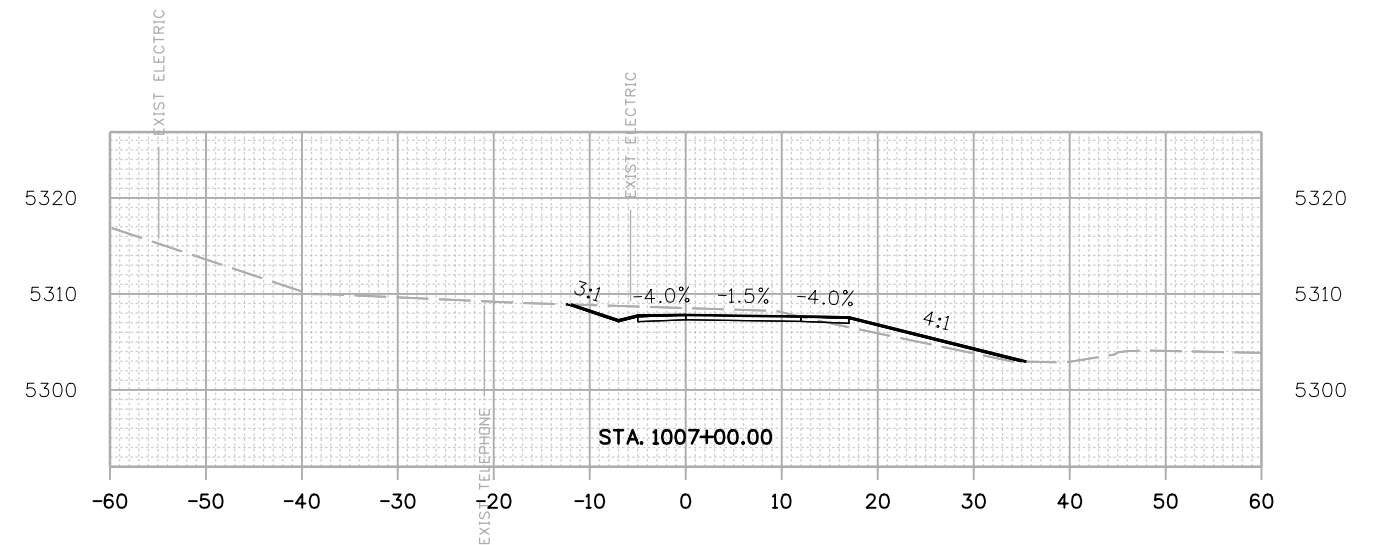
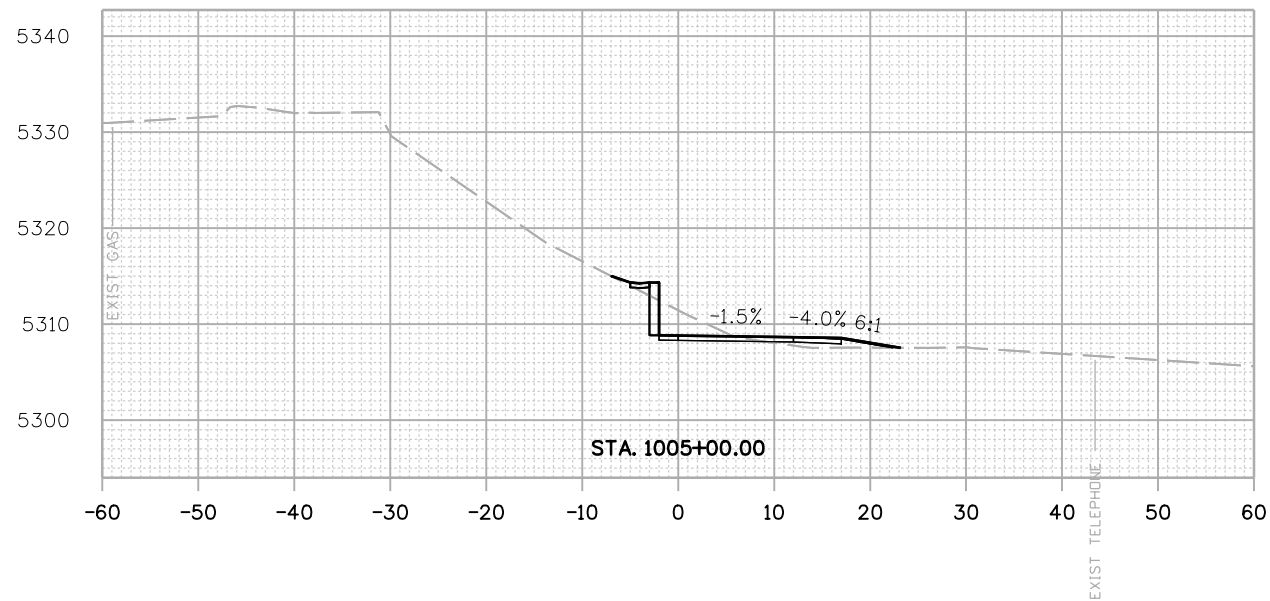
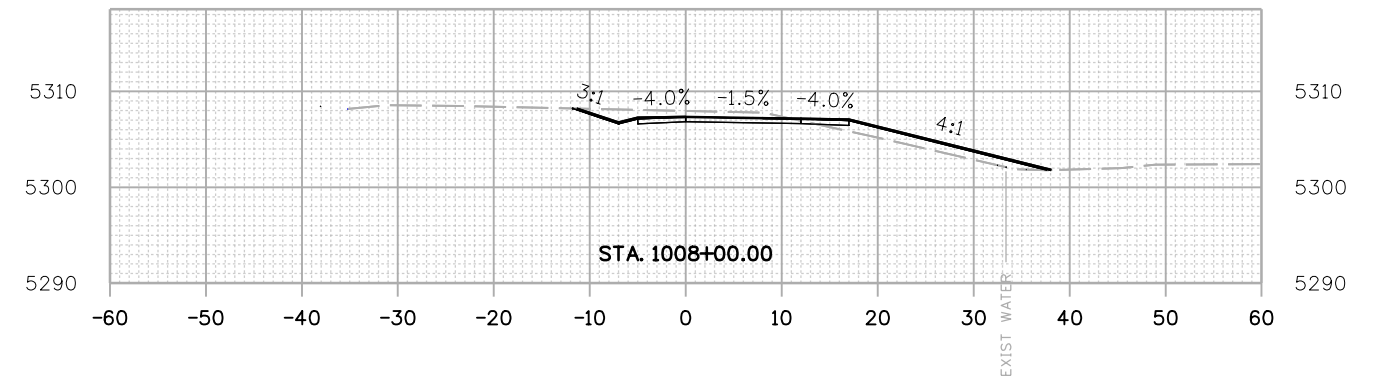
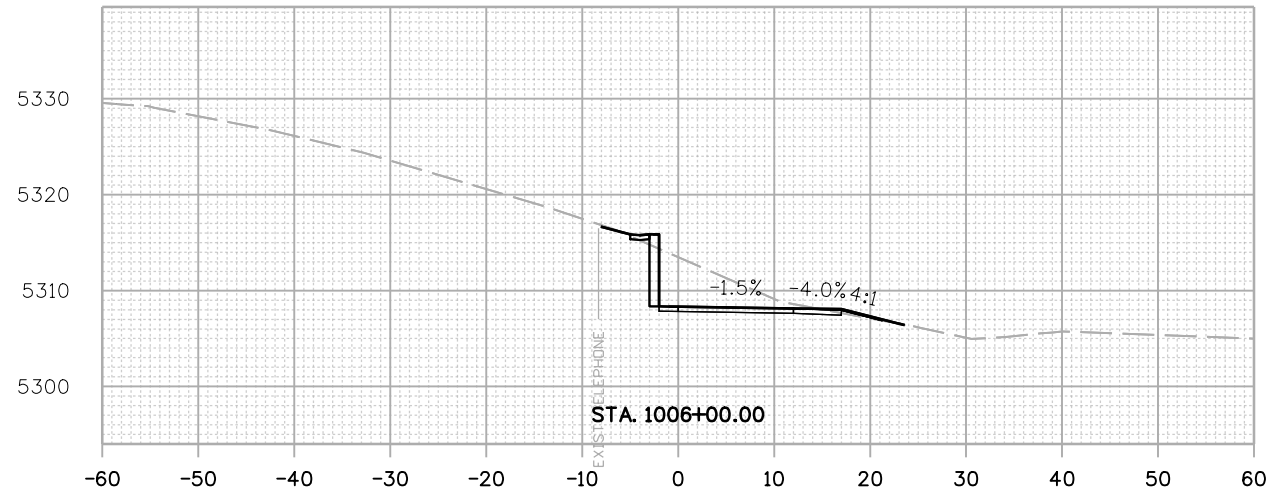
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 Detailer: MDC
 Sheet Subset: XSEC
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 Subset Sheets: 1 of 91

Project No./Code

Sheet Number 183

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Print Date: 6/28/2022
 File Name: 950_21015_RD_XS_SEG 01.dgn
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CD 119 BIKEWAY

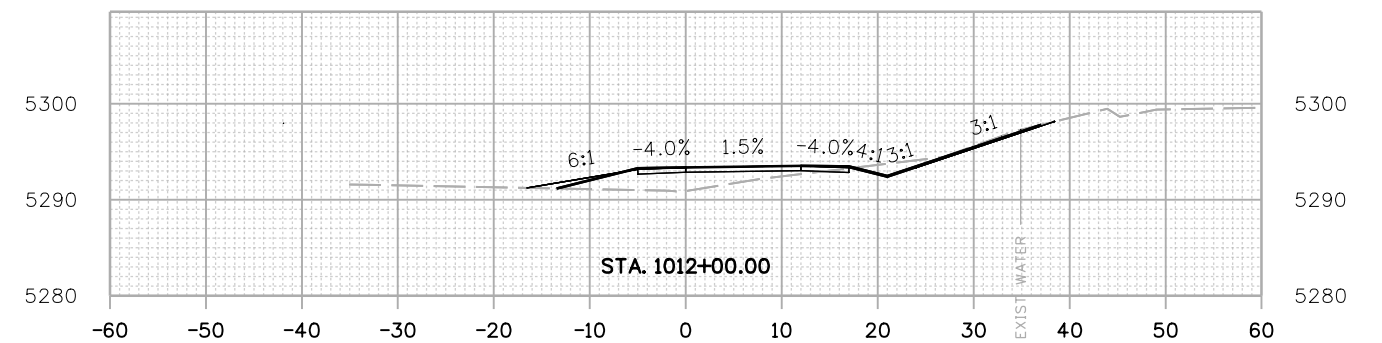
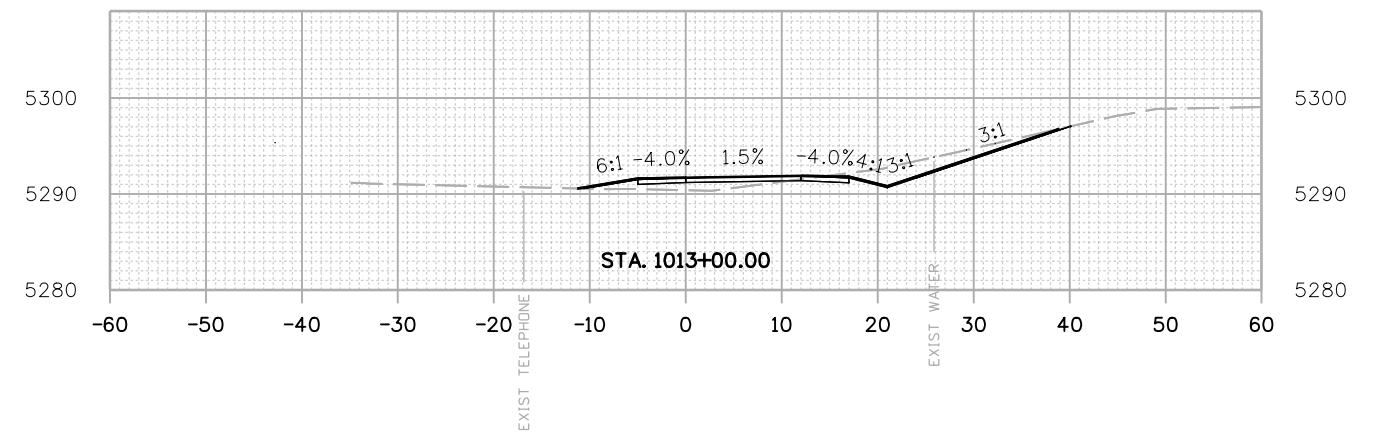
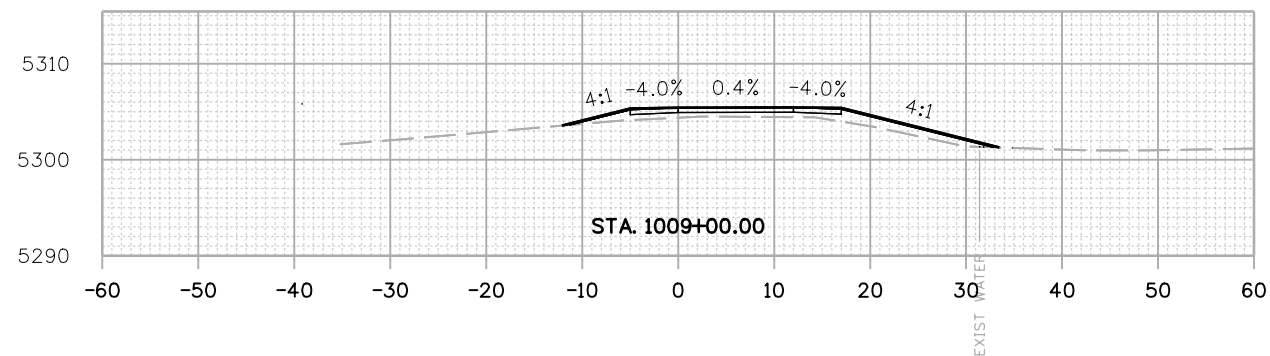
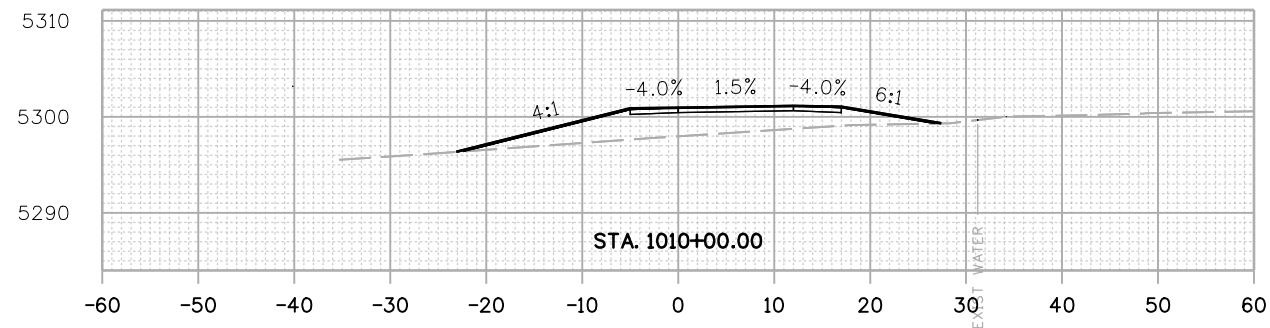
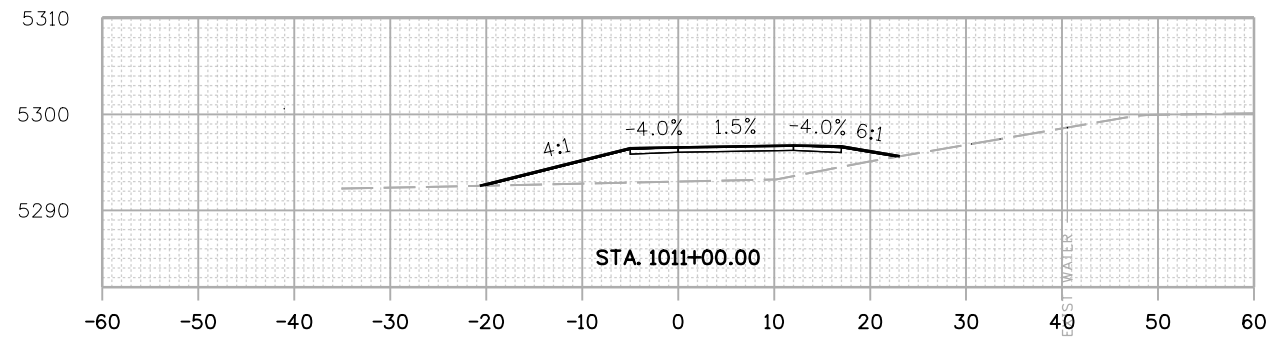
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Project No./Code

Sheet Number 184

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Print Date: 6/28/2022
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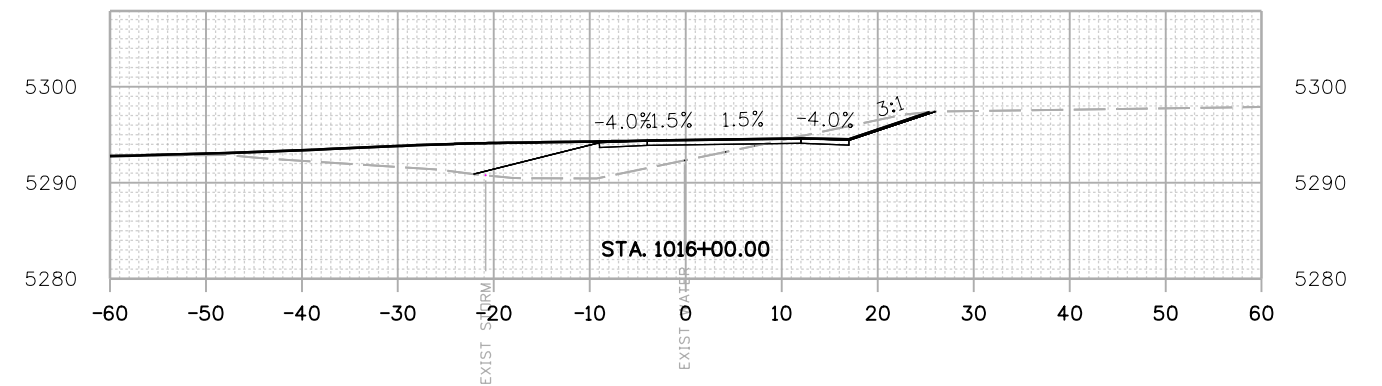
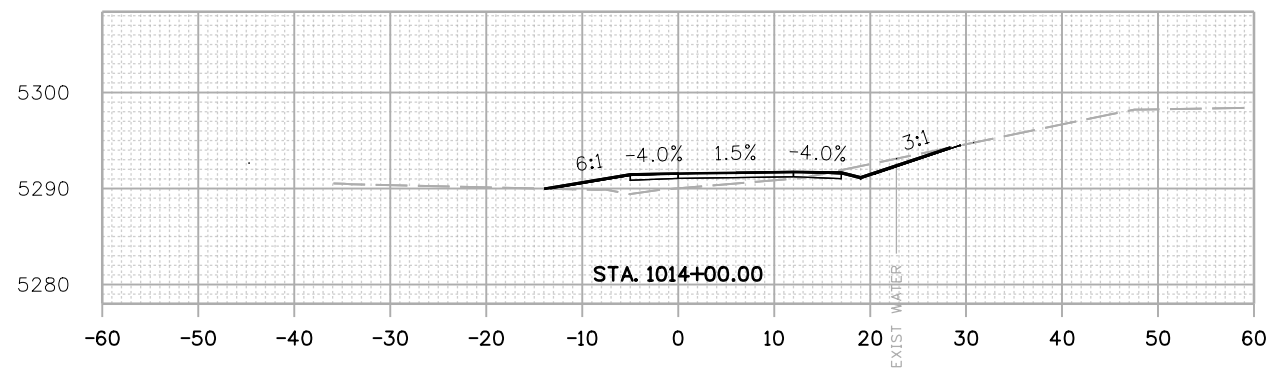
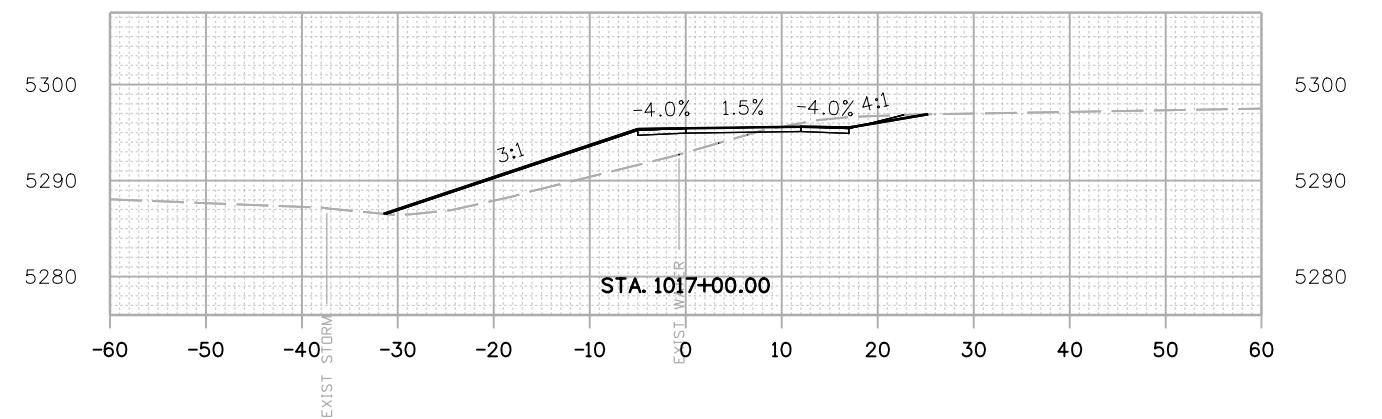
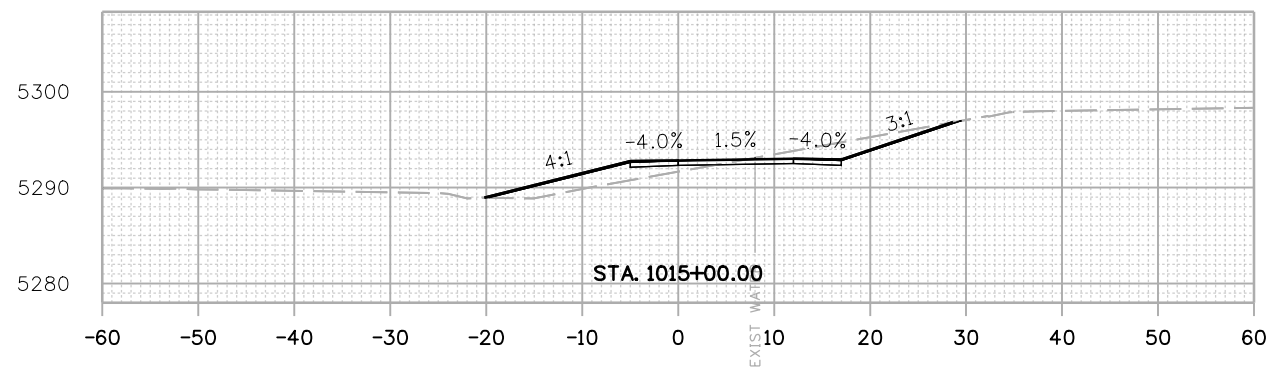
CD 119 BIKEWAY
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Designer: MMA
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Project No./Code

Sheet Number 185

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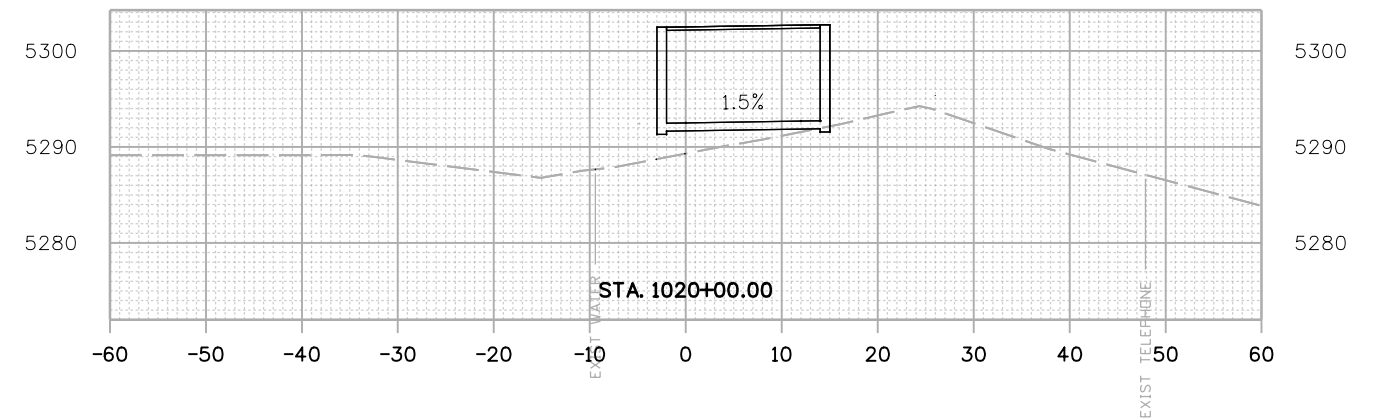
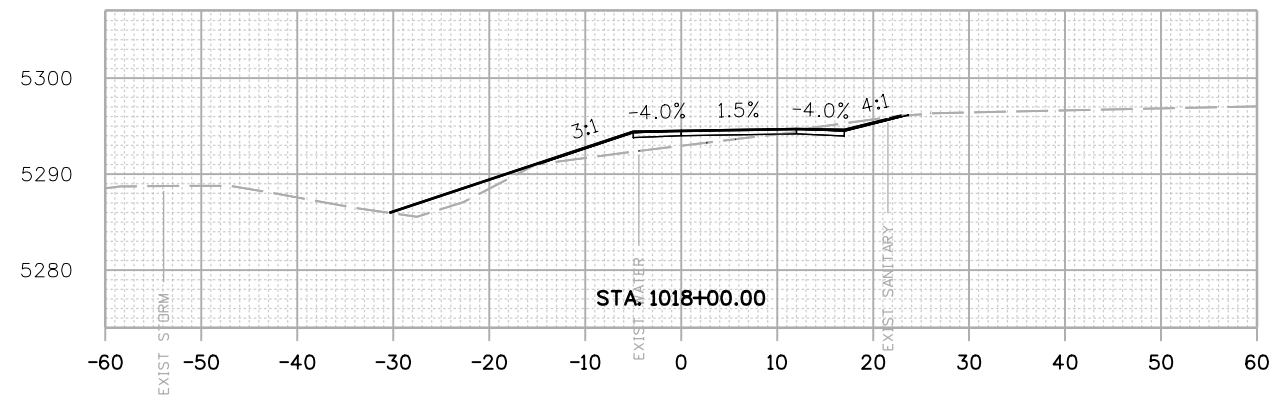
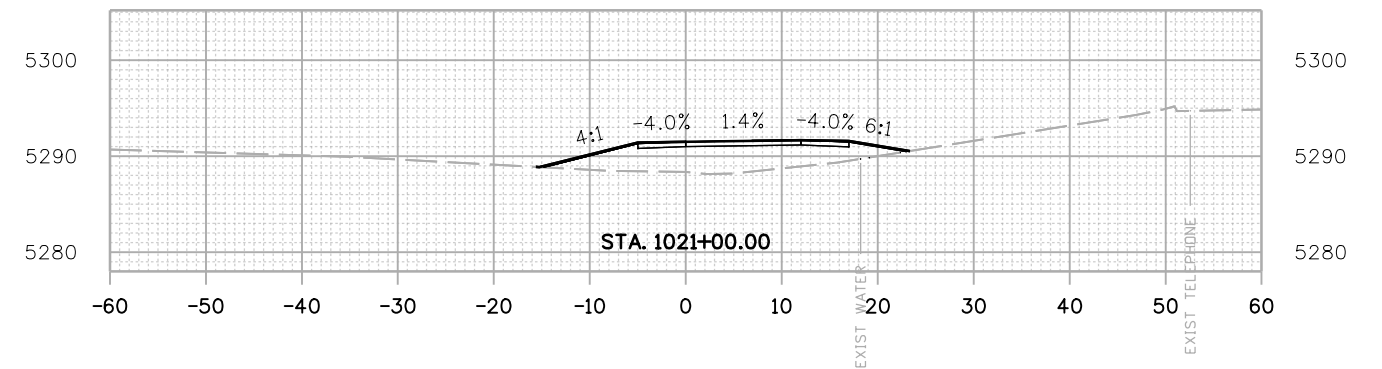
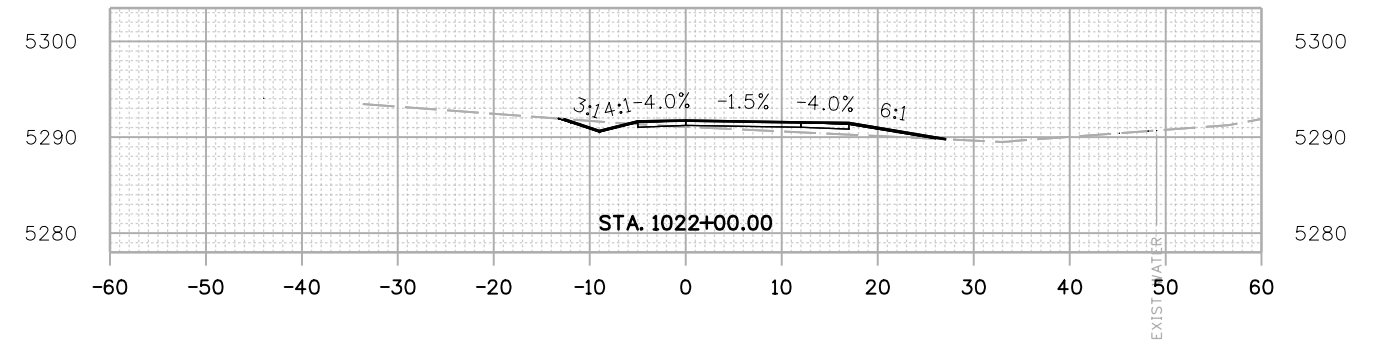
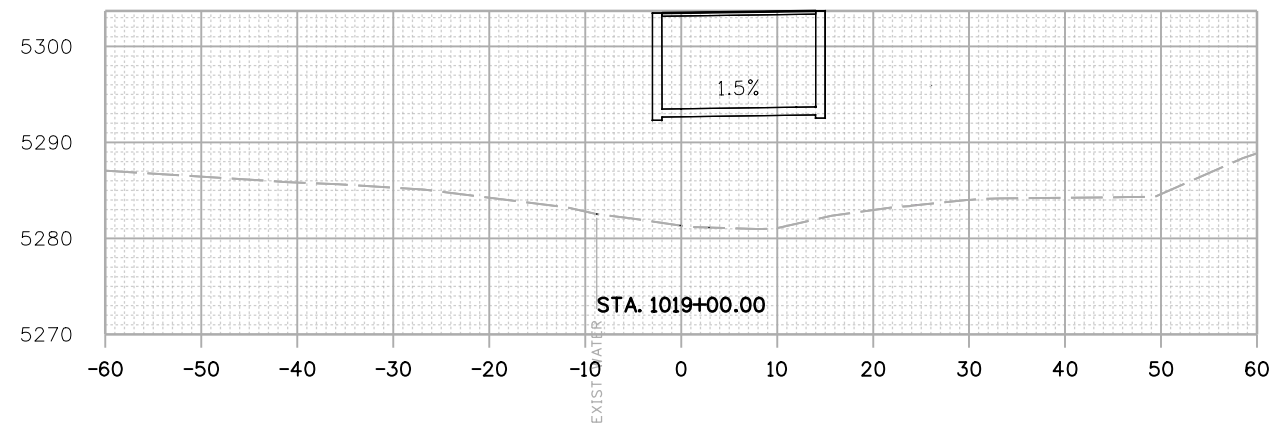


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CD 119 BIKEWAY

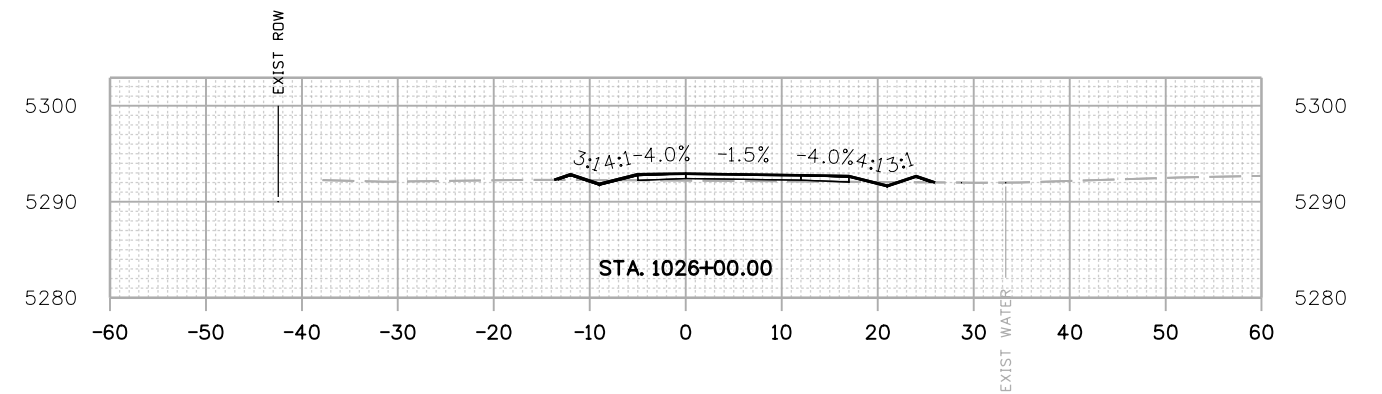
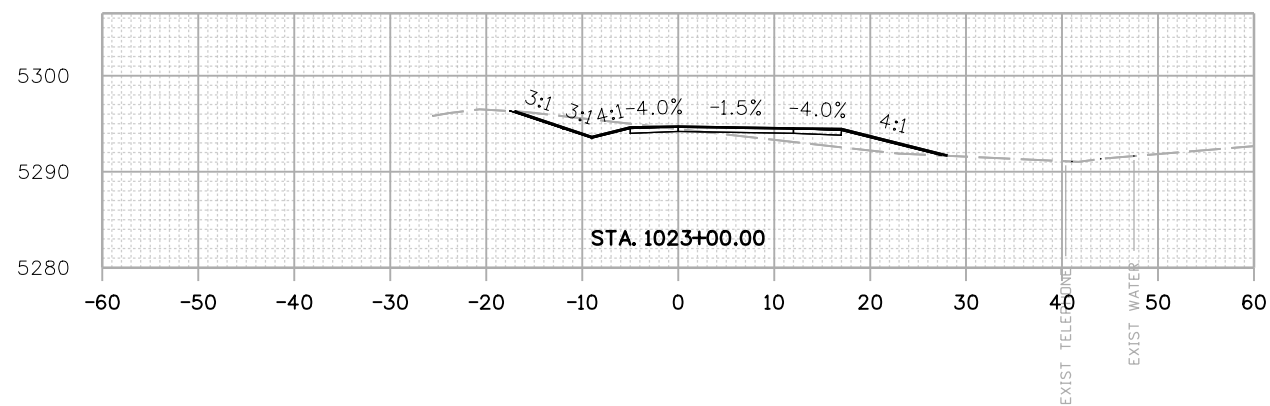
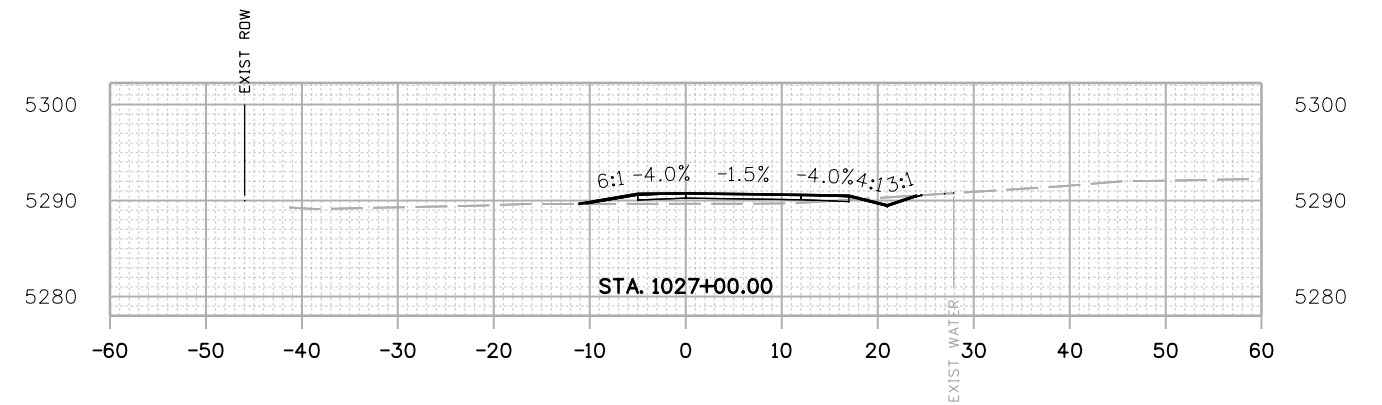
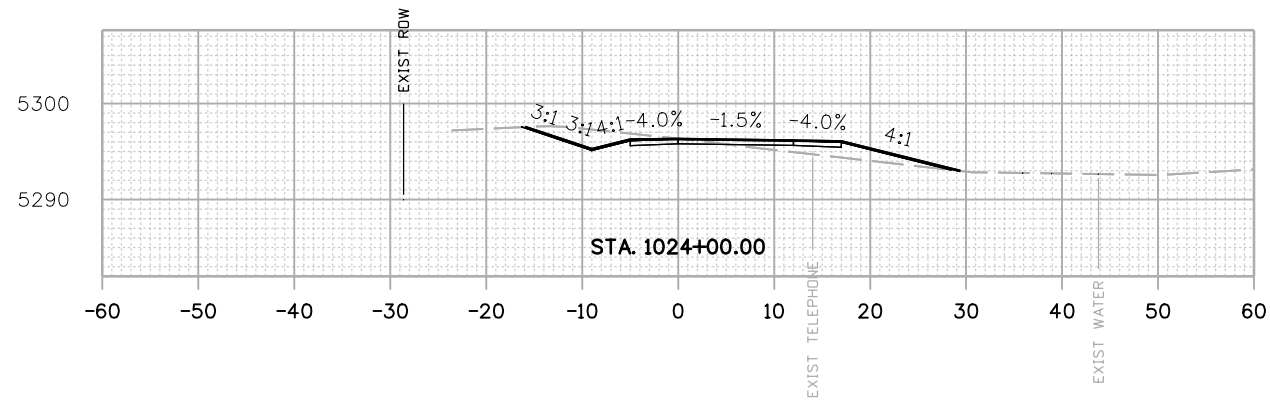
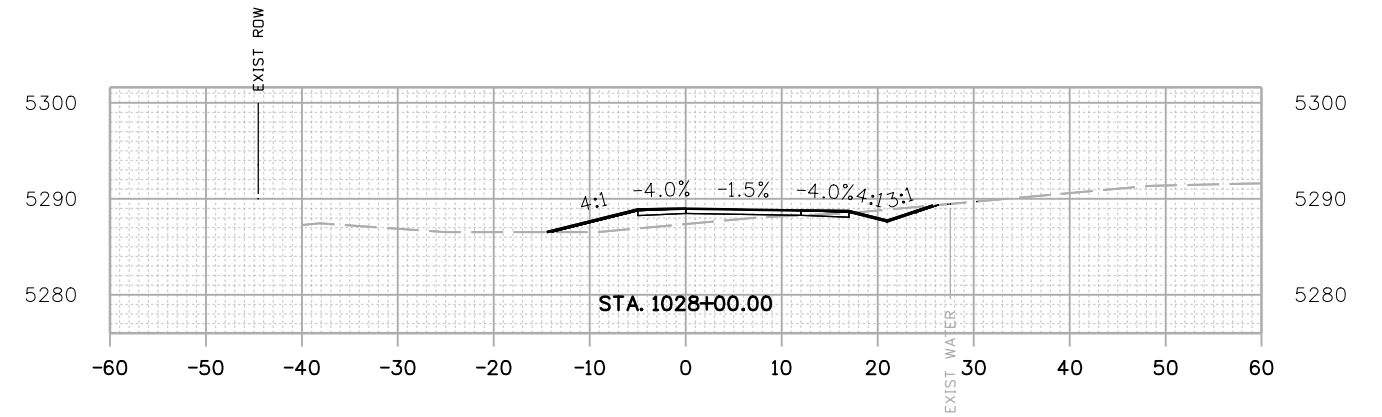
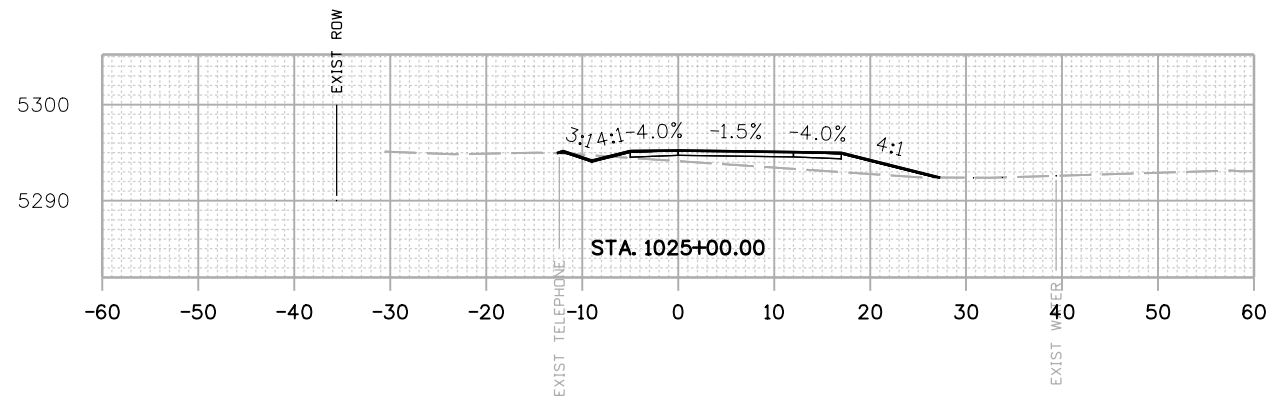
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 Subset Sheets: 5 of 91

Project No./Code

Sheet Number 187

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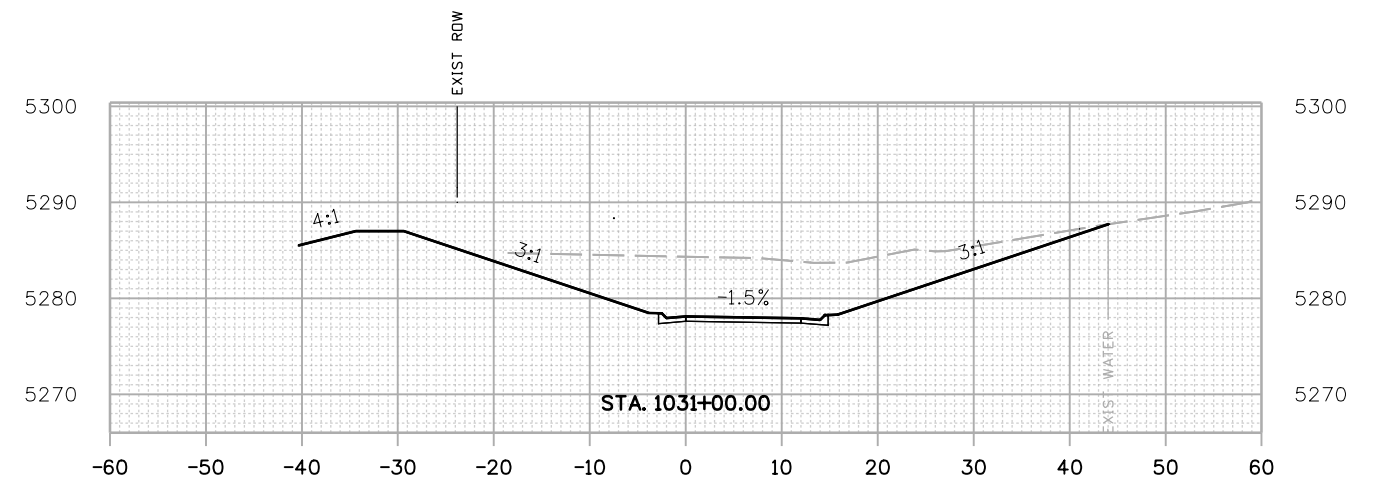
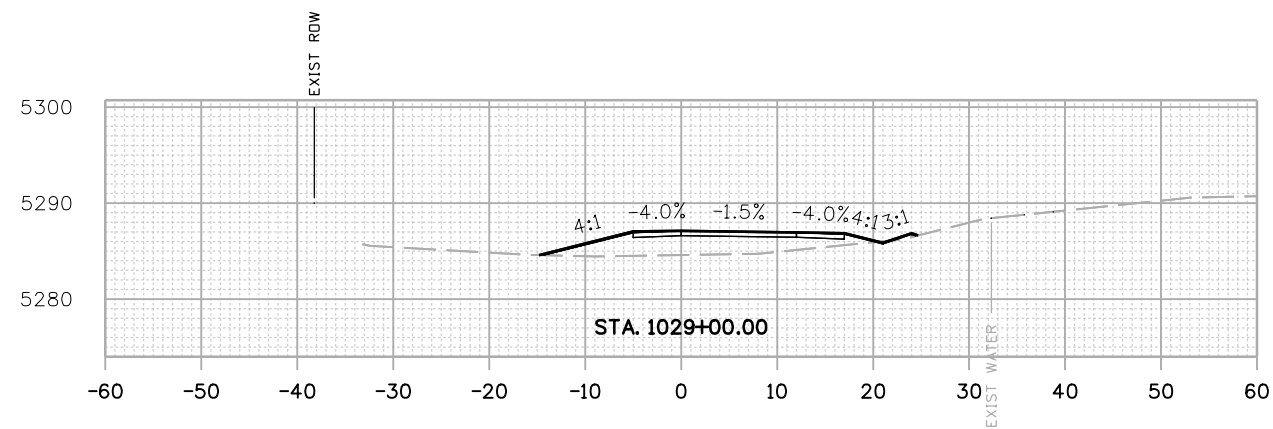
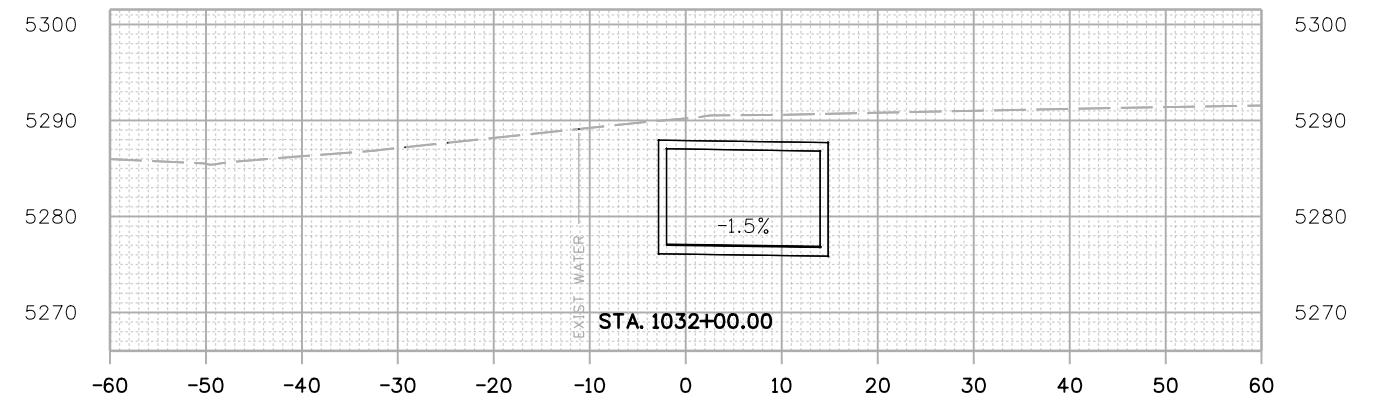
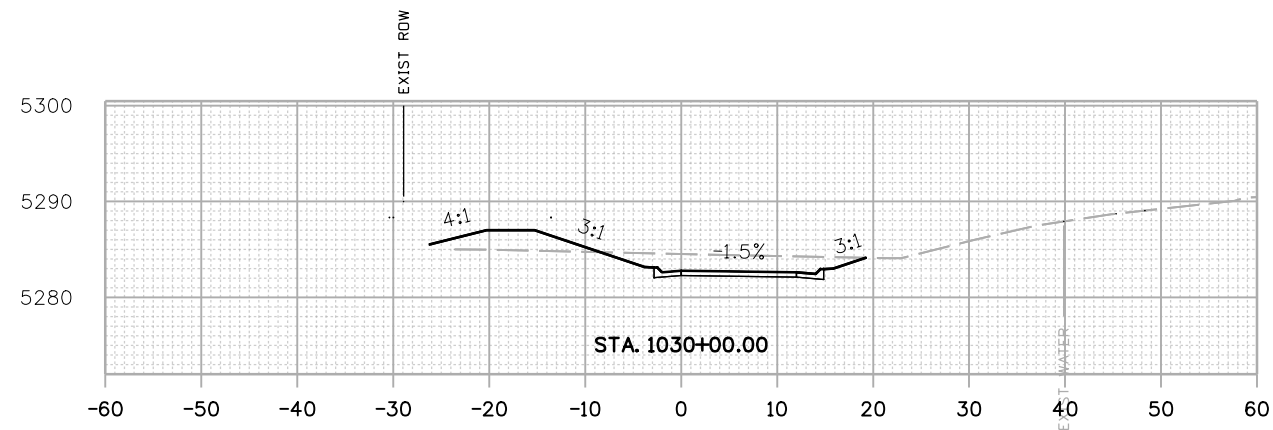
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CD 119 BIKEWAY
 CROSS SECTIONS

Designer: MMA
 Detailer: MDC
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 Structure Numbers:
 Subset Sheets: 6 of 91

Project No./Code
 Sheet Number 188

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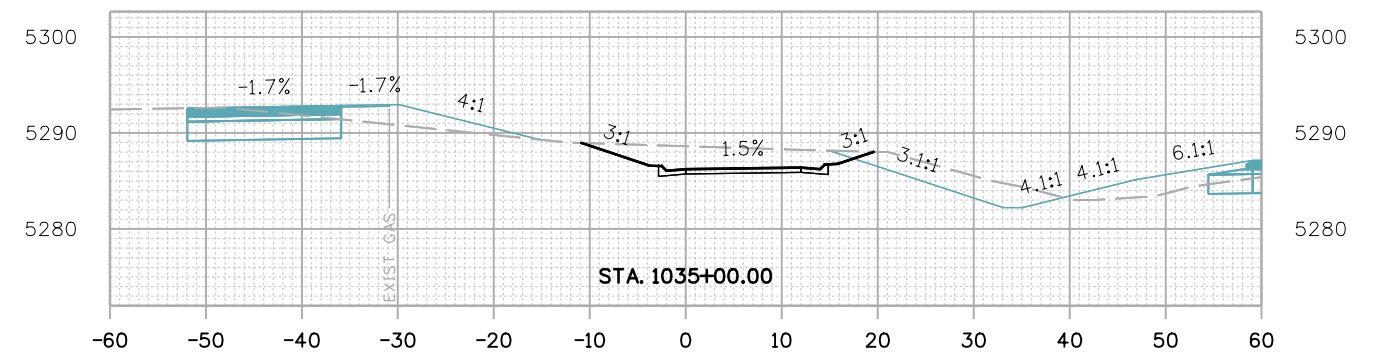
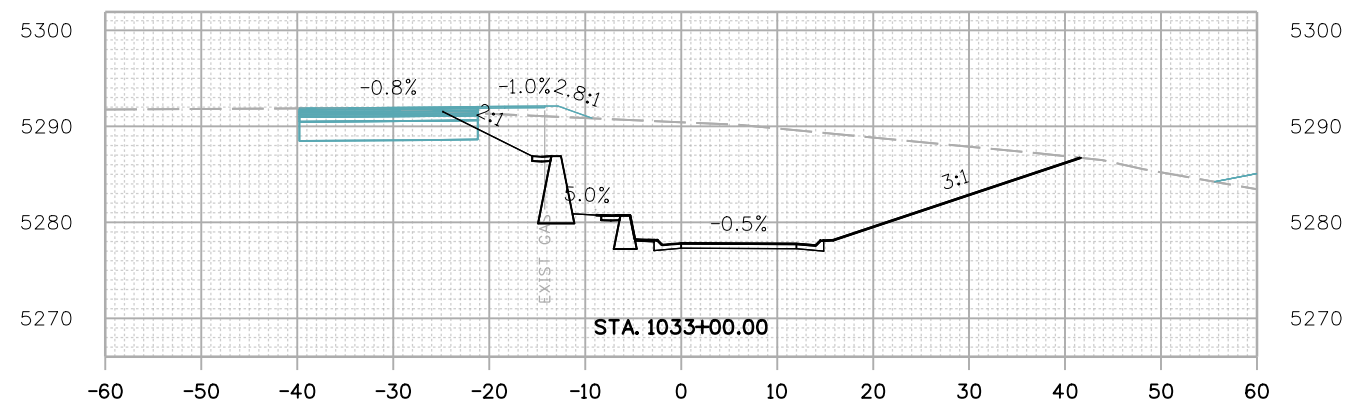
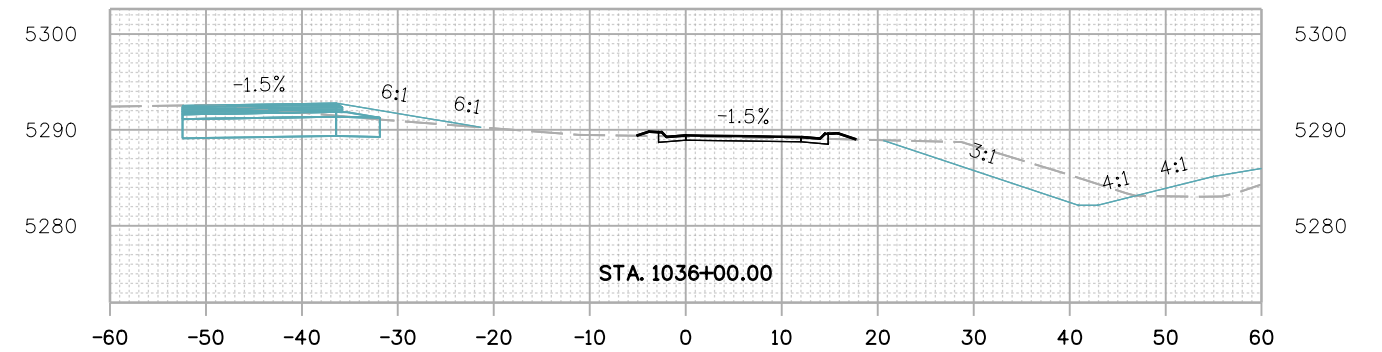
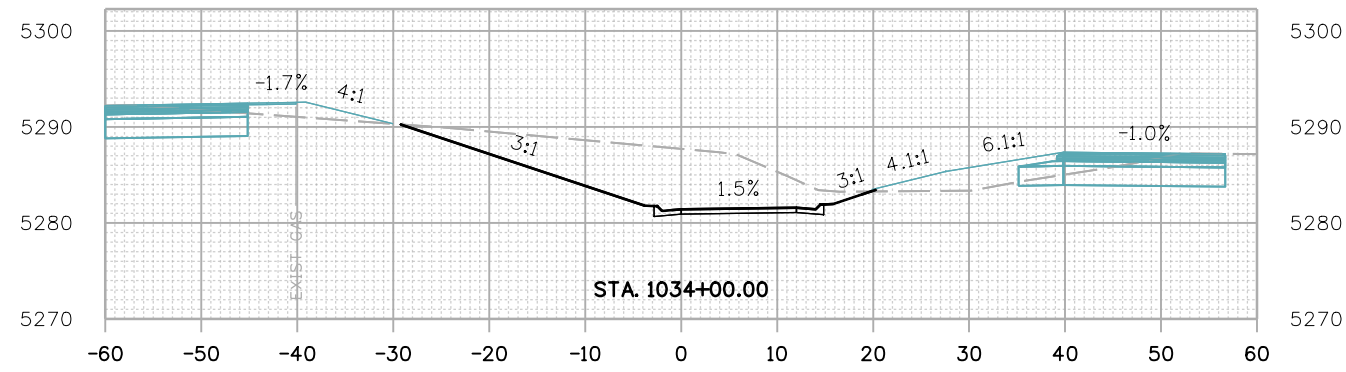


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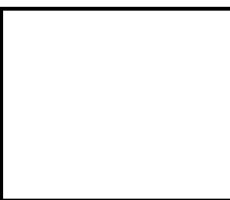
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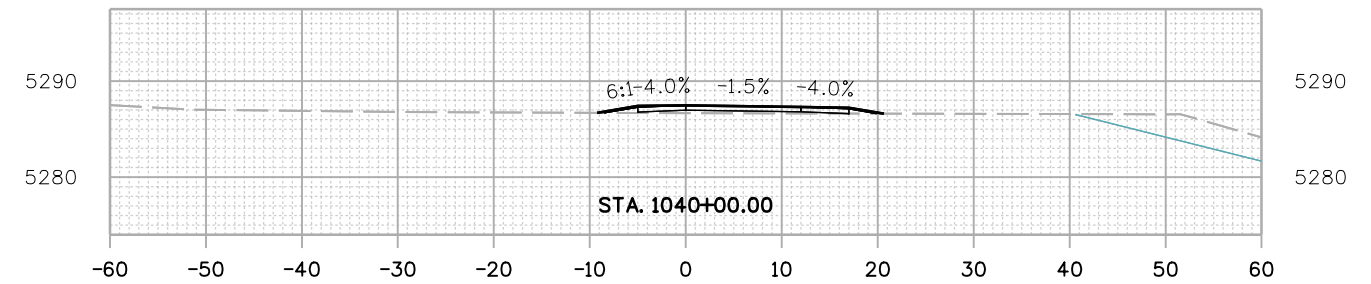
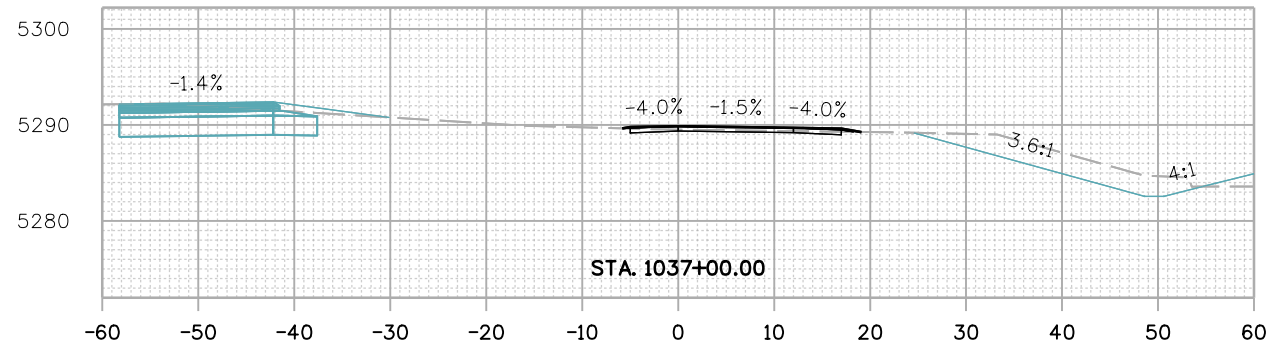
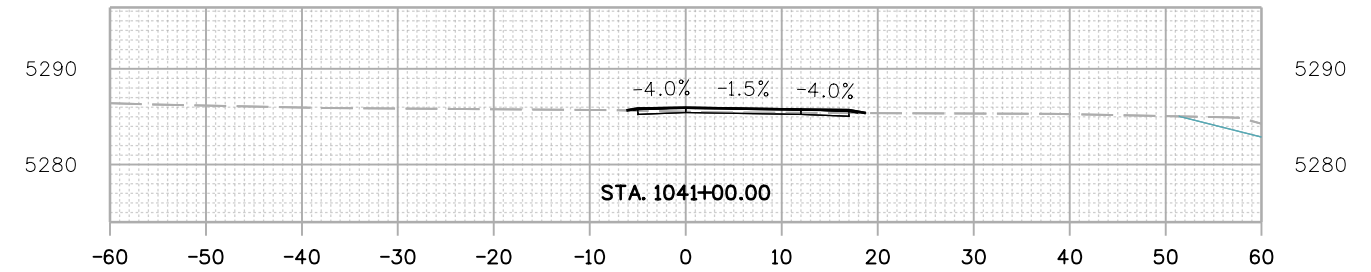
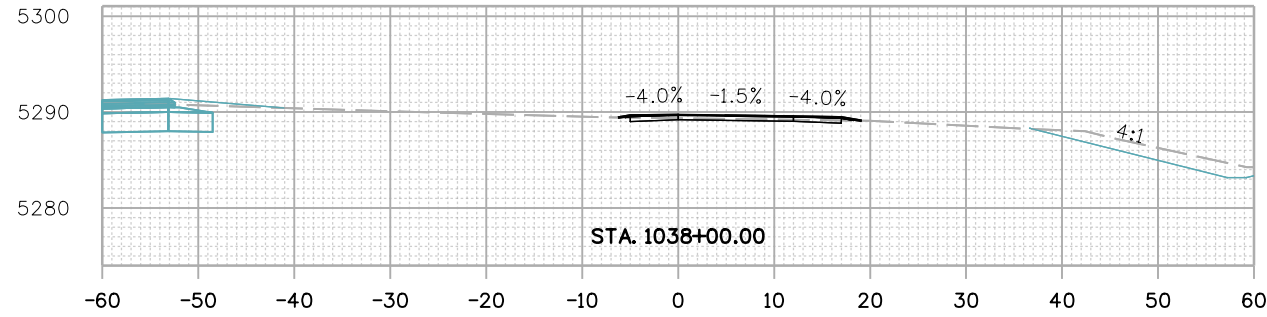
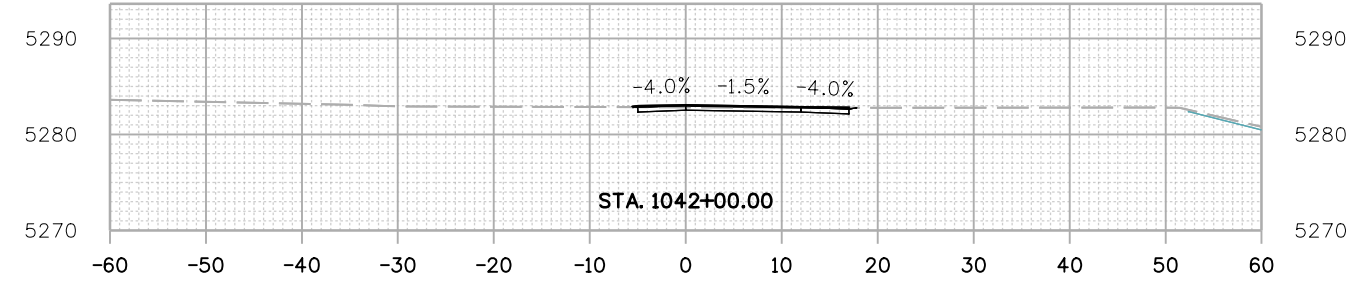
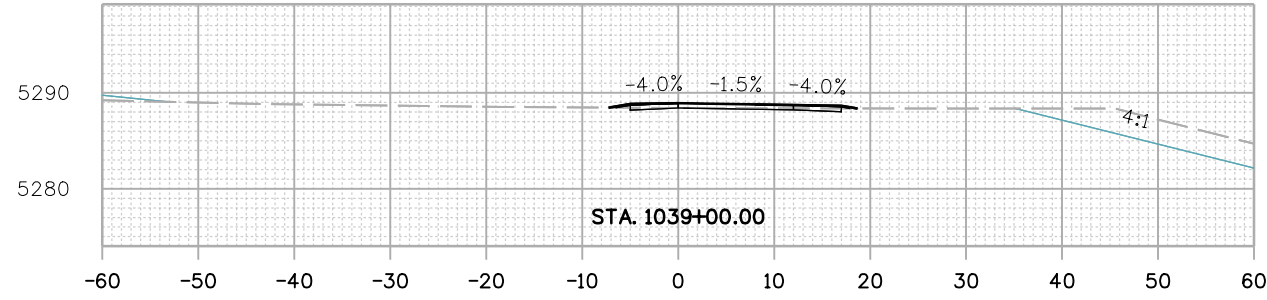


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 File Name: 950_21015_RD_XS_SEG 01.dgn
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CD 119 BIKEWAY

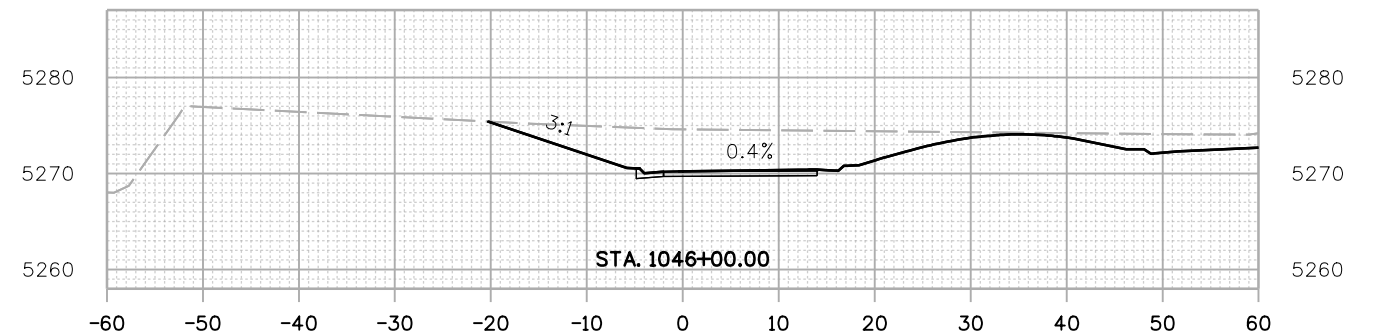
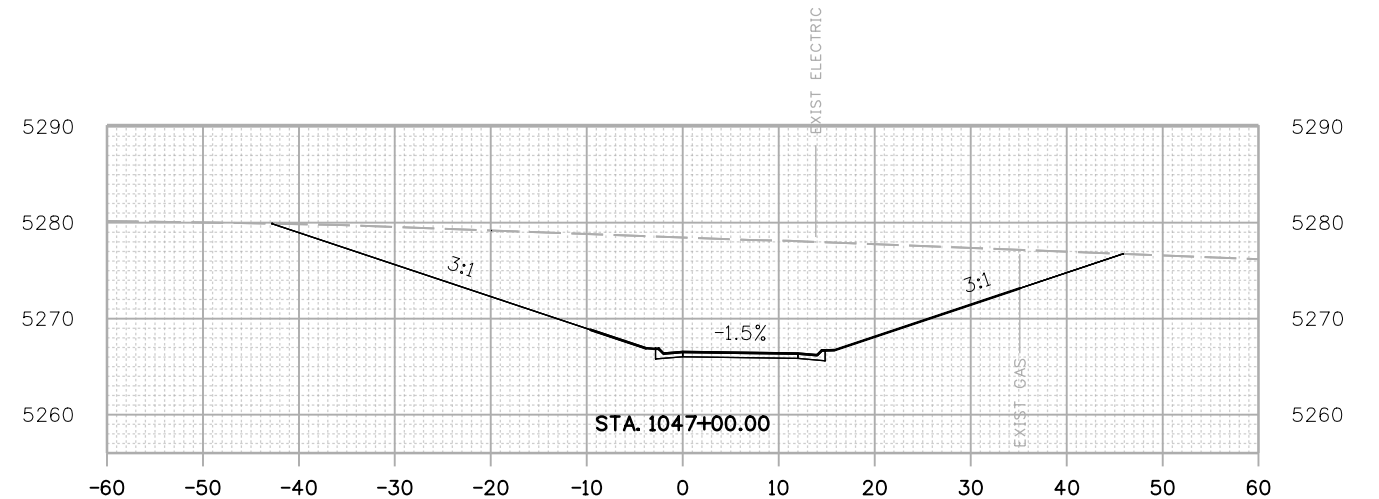
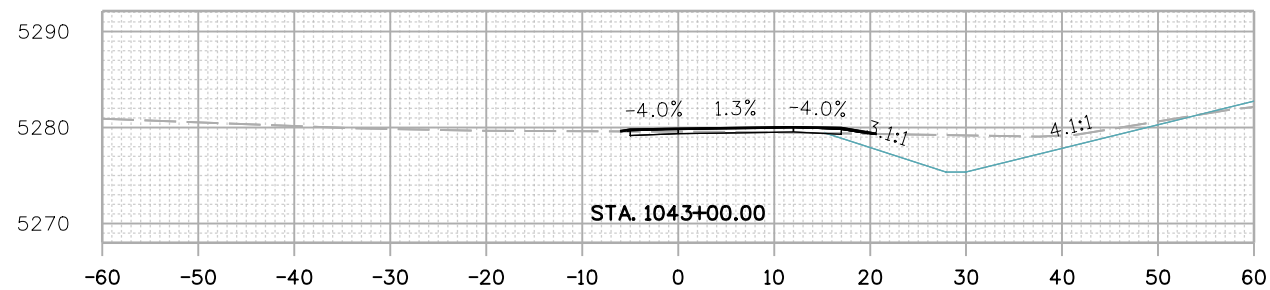
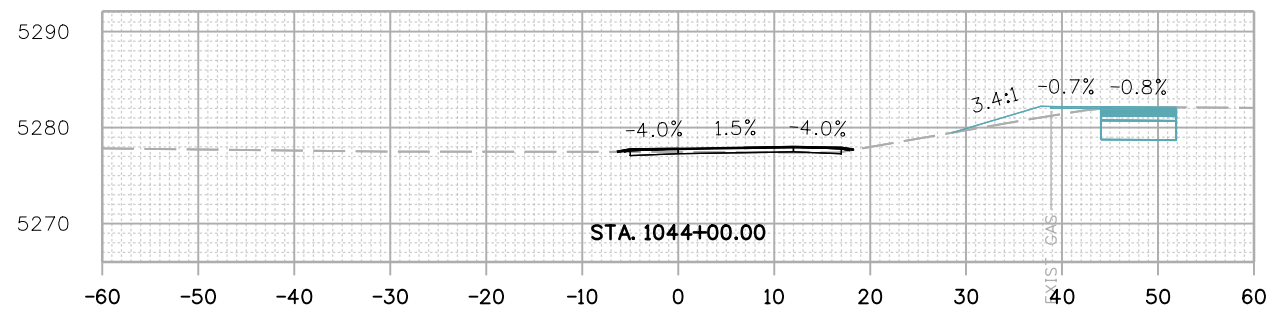
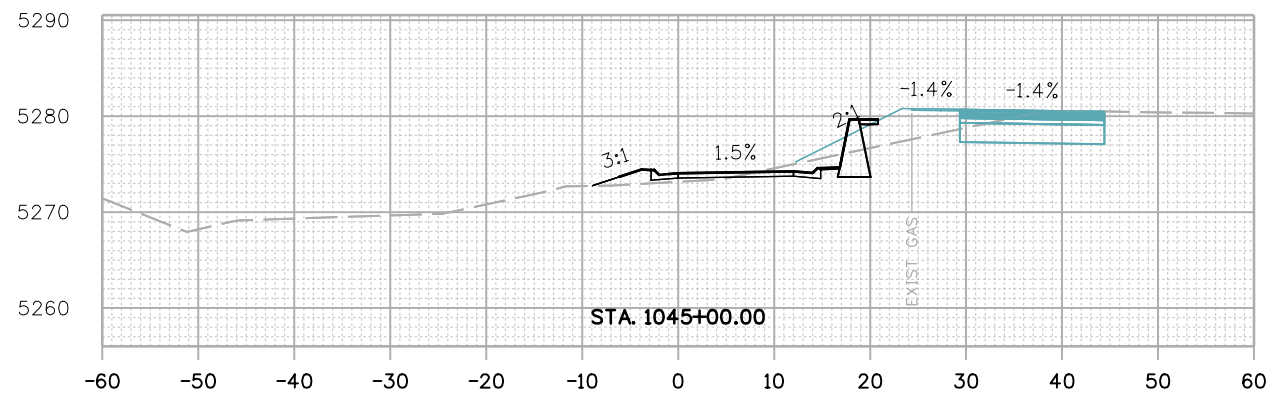
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Project No./Code

Sheet Number 191

Michael Carlson 3:06:54 PM pw:\mullereng-pw-01\Documents\2021 Projects\21-015.01 CO 119 Bikeway\01 Pre-Construction\Sheets\950_21015_RD_XS_SEG 01



All seals for this set of drawings are applied to the cover page(s)

Print Date: 6/28/2022
 File Name: 950_21015_RD_XS_SEG 01.dgn
 Horiz. Scale: Vert. Scale: As Noted
 Unit Information



Sheet Revisions

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As Constructed

No Revisions:
 Revised:
 Void:

CD 119 BIKEWAY

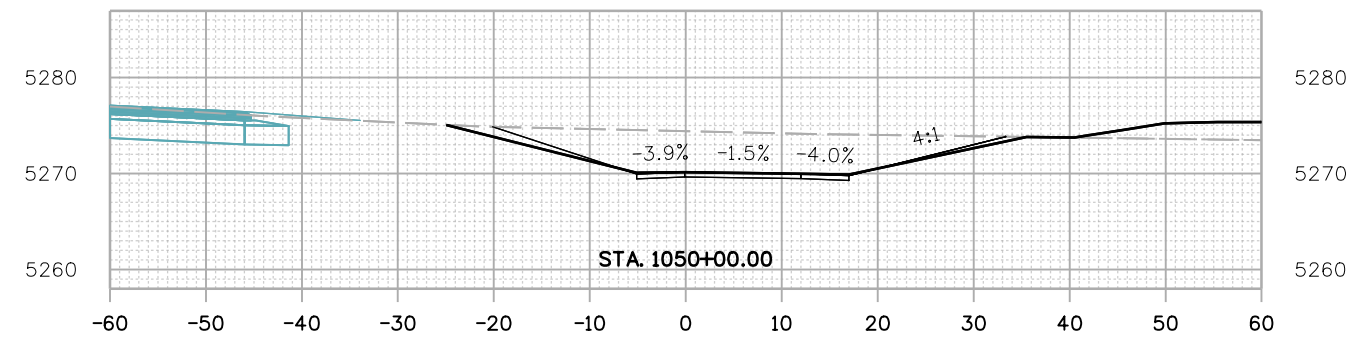
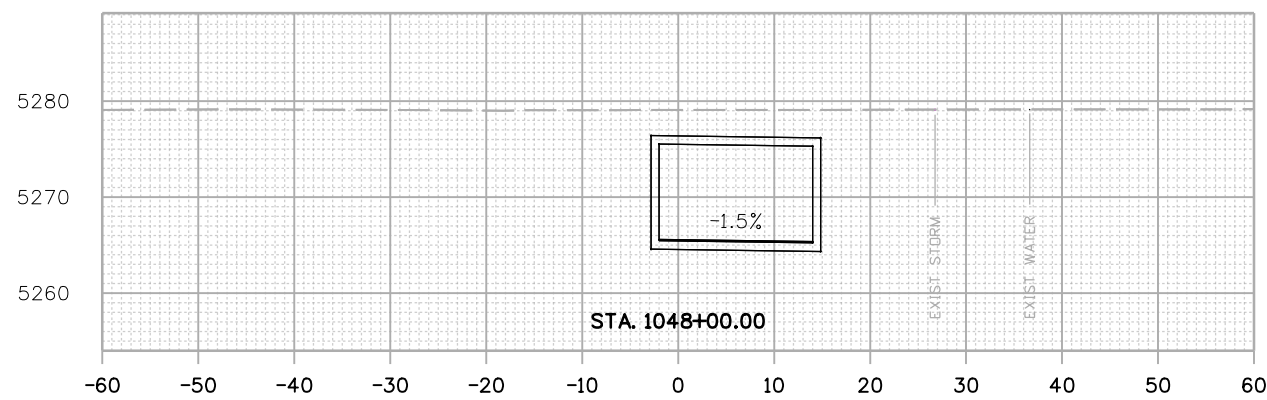
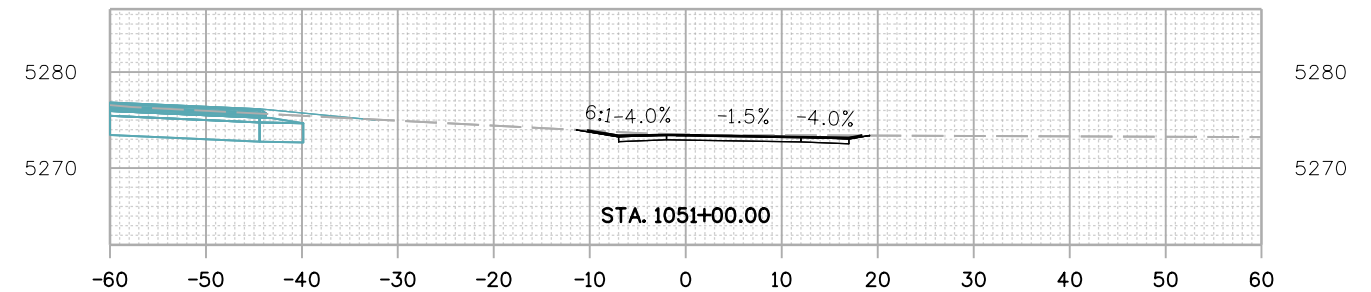
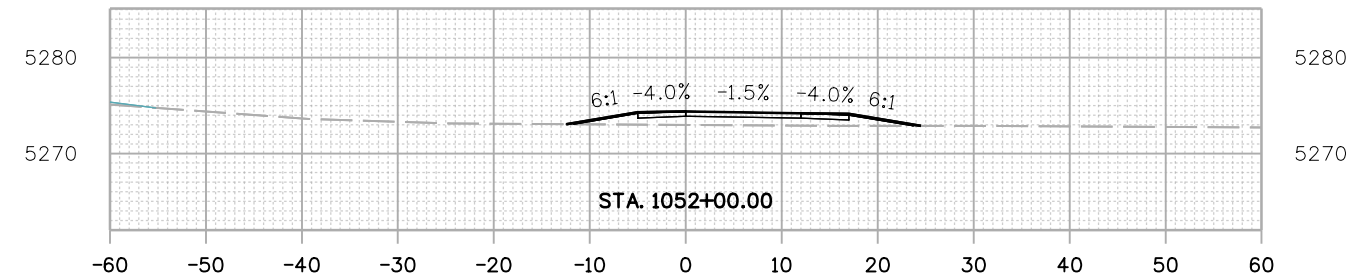
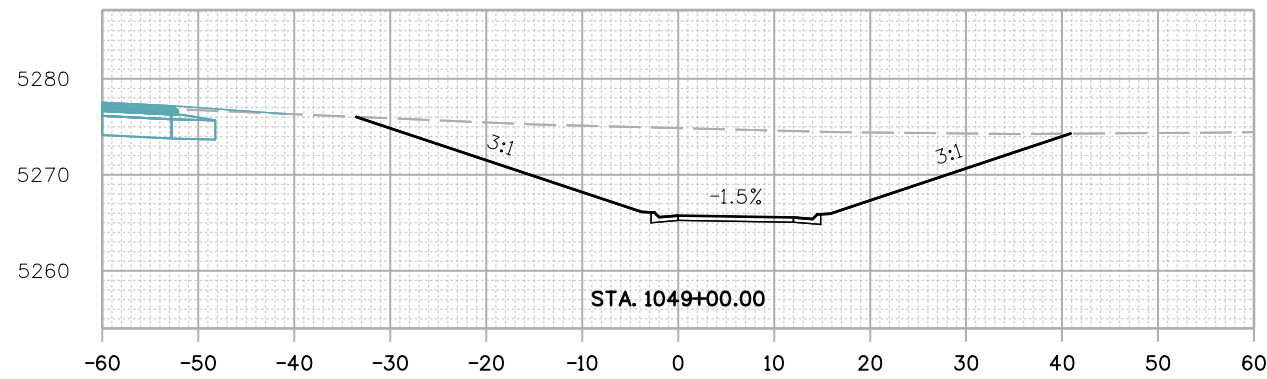
CROSS SECTIONS

Designer: MMA
 Detailer: MDC
 Sheet Subset: XSEC
 Structure Numbers:
 Subset Sheets: 10 of 91

Project No./Code

Sheet Number 192

Michael Carlson 3:07:34 PM pw:\mullereng-pw-01\Documents\2021 Projects\21-015.01 CD 119 Bikeway\01 Pre-Construction\Sheets\950_21015_RD_XS_SEG 01



All seals for this set of drawings are applied to the cover page(s)

Print Date: 6/28/2022
File Name: 950_21015_RD_XS_SEG 01.dgn
Horiz. Scale: Vert. Scale: As Noted
Unit Information



Sheet Revisions

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As Constructed

No Revisions:
Revised:
Void:

CD 119 BIKEWAY

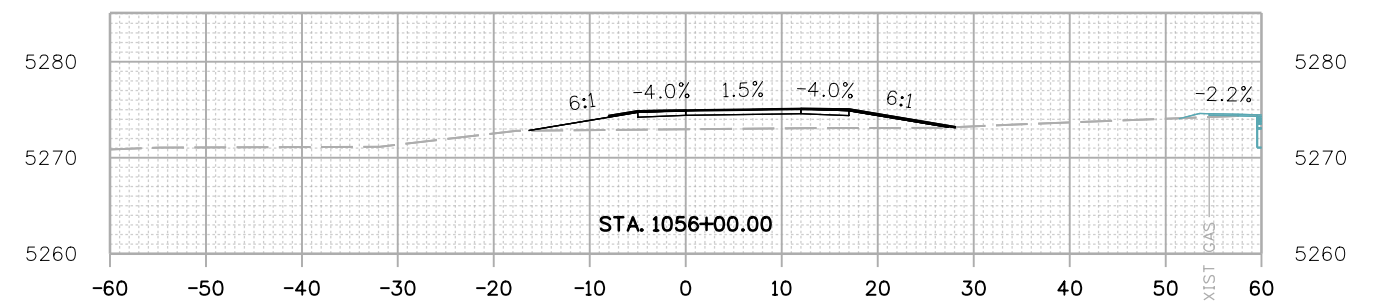
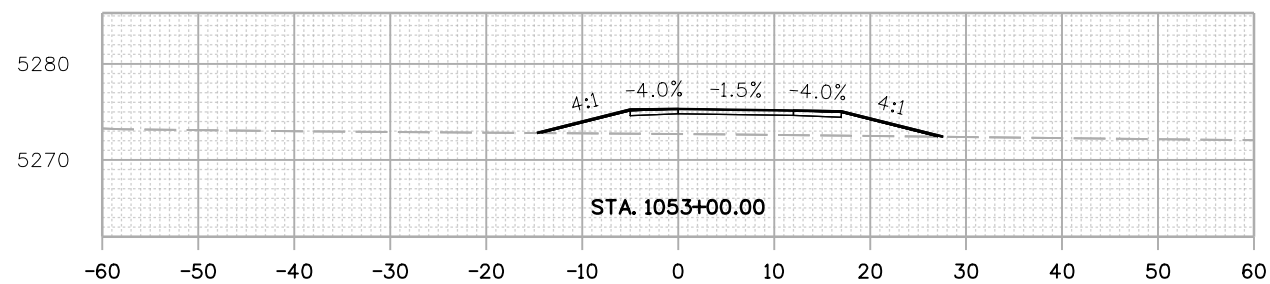
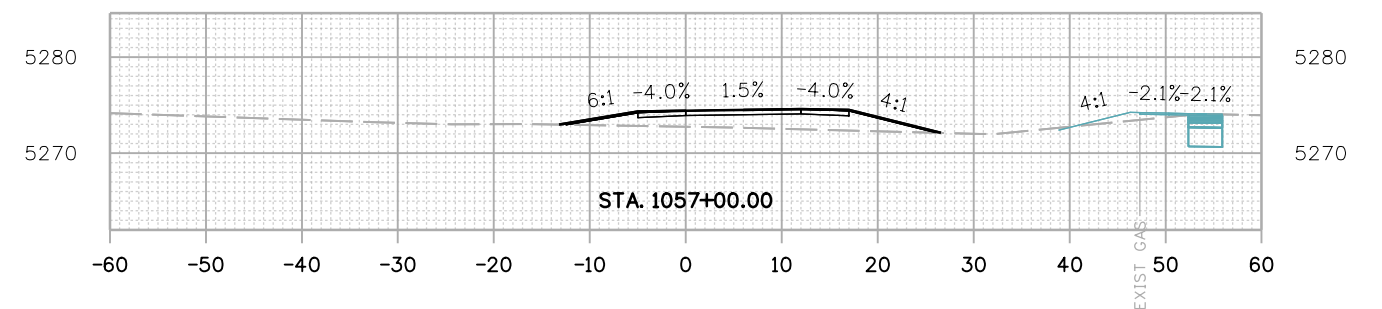
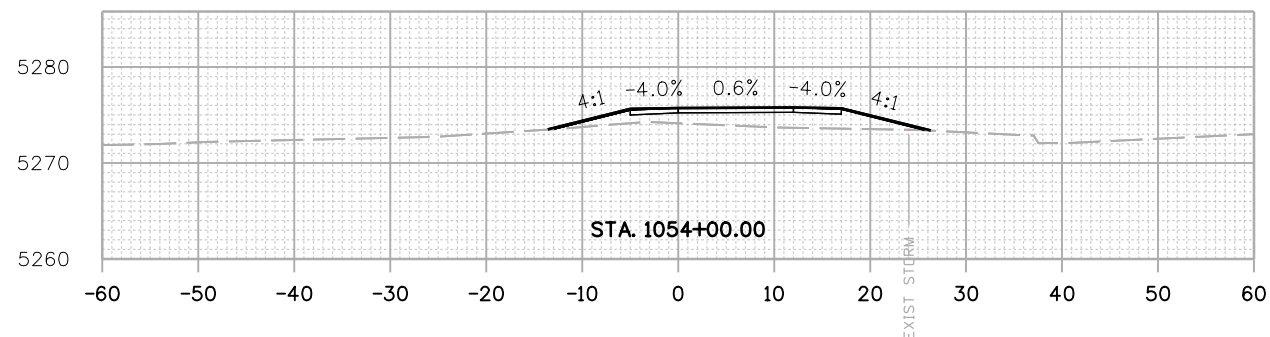
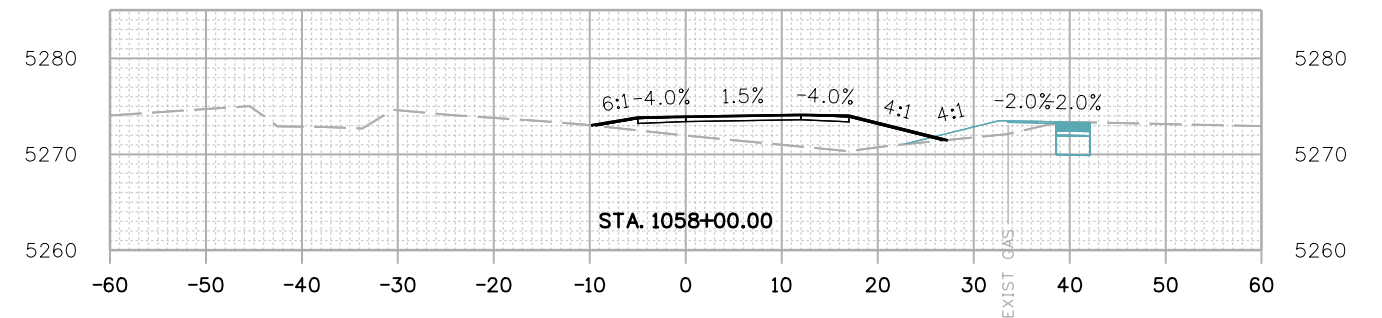
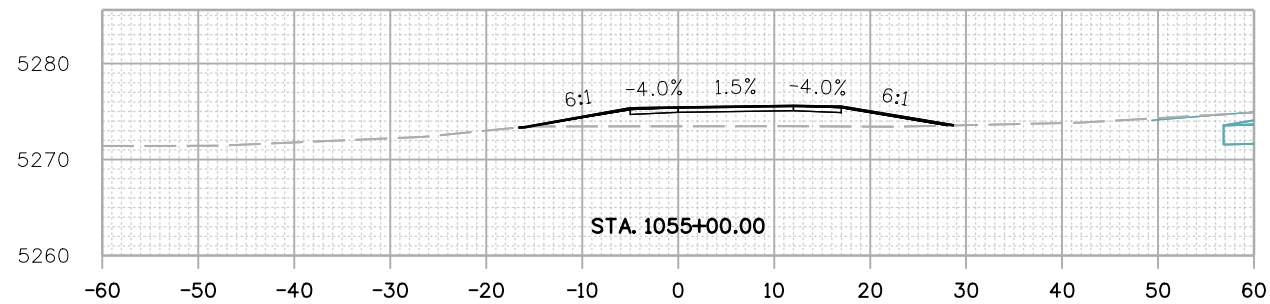
CROSS SECTIONS

Designer: MMA
Detailer: MDC
Sheet Subset: XSEC
Structure Numbers:
Subset Sheets: 11 of 91

Project No./Code

Sheet Number 193

Michael Carlson 3:08:14 PM pw:\mullereng-pw.bentley.com\mullereng-pw-01\Documents\2021\Projects\21-015.01 CO 119 Bikeway\01 Pre-Construction\Sheets\950_21015_RD_XS_SEG 01



All seals for this set of drawings are applied to the cover page(s)

Print Date: 6/28/2022
 File Name: 950_21015_RD_XS_SEG 01.dgn
 Horiz. Scale: Vert. Scale: As Noted
 Unit Information



Sheet Revisions

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As Constructed

No Revisions:
 Revised:
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CD 119 BIKEWAY

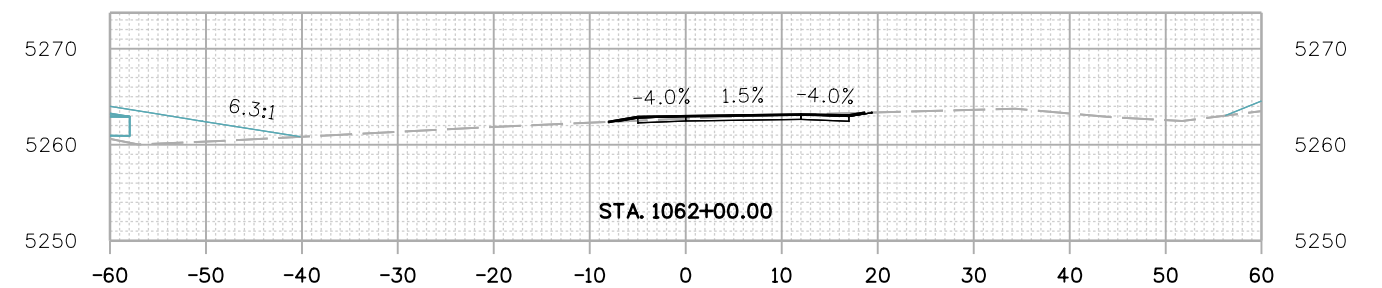
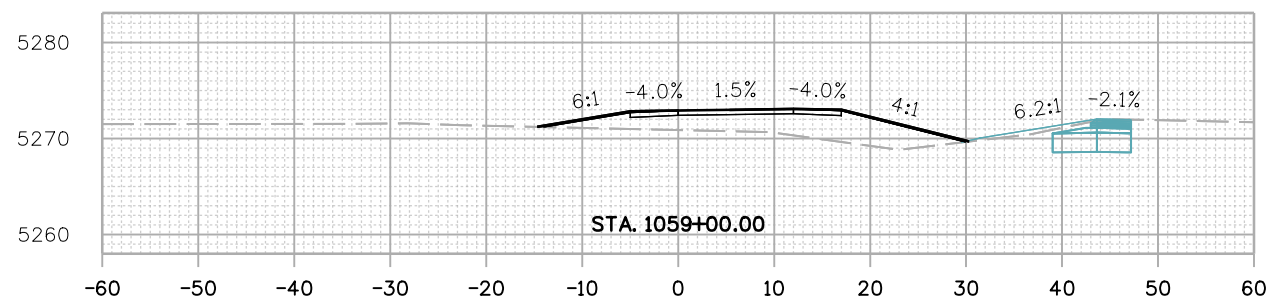
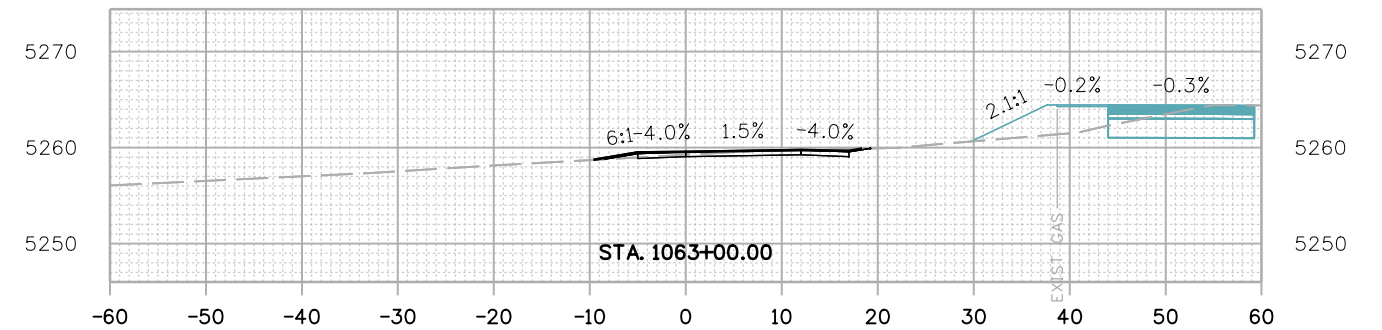
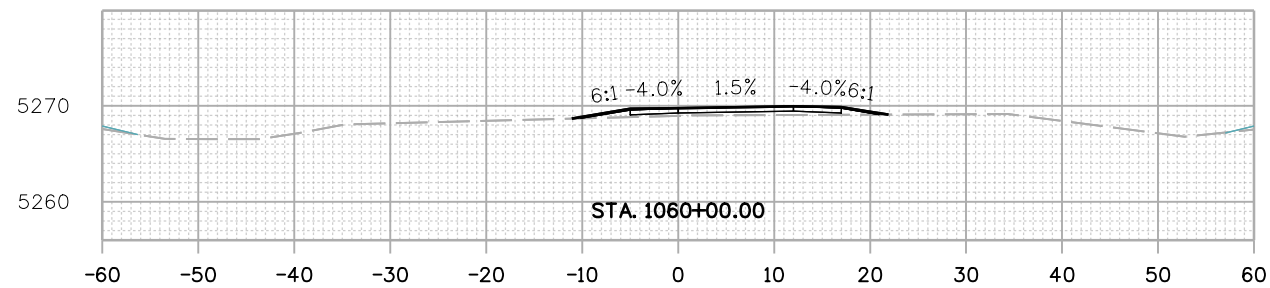
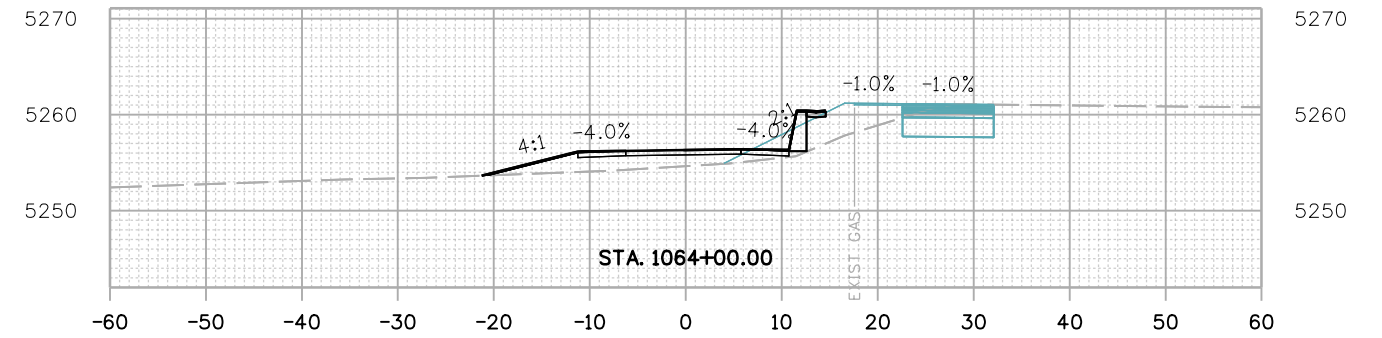
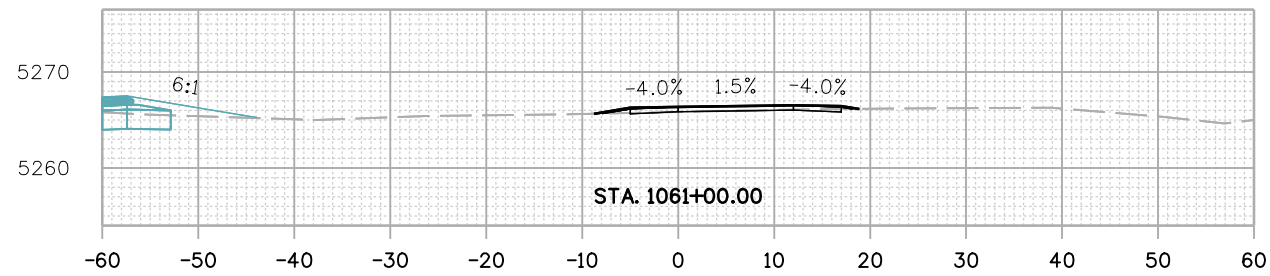
CROSS SECTIONS

Designer: MMA
 Detailer: MDC
 Sheet Subset: XSEC
 Structure Numbers:
 Subset Sheets: 12 of 91

Project No./Code

Sheet Number 194

Michael Carlson 3:09:03 PM p:\mullereng-pw-bentley.com\mullereng-pw-01\Documents\2021 Projects\21-015.01 CO 119 Bikeway\01 Pre-Construction\Sheets\950_21015_RD_XS_SEG 01



All seals for this set of drawings are applied to the cover page(s)

Print Date: 6/28/2022
 File Name: 950_21015_RD_XS_SEG 01.dgn
 Horiz. Scale: Vert. Scale: As Noted
 Unit Information



Sheet Revisions

| Date: | Comments | Init. |
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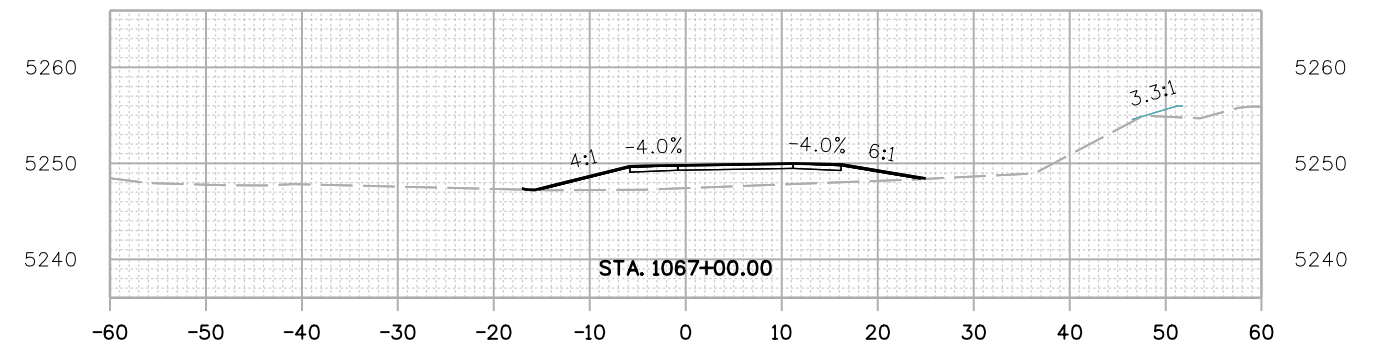
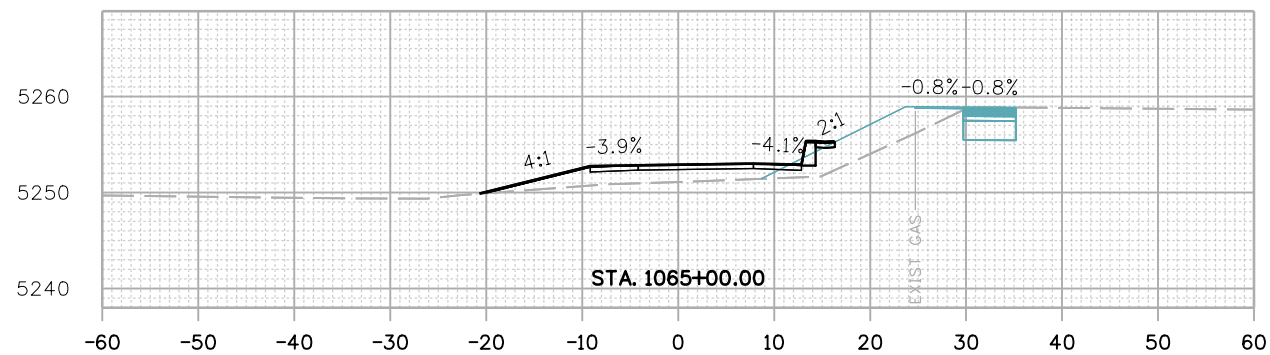
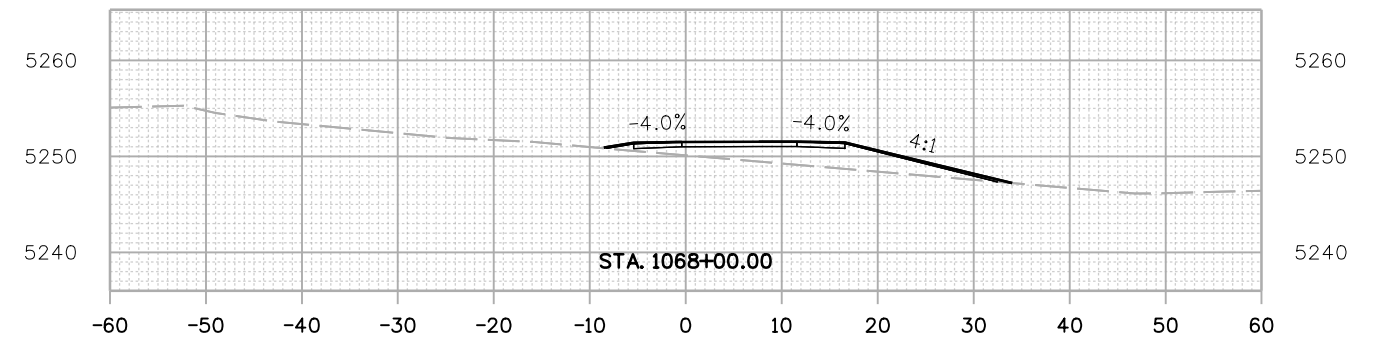
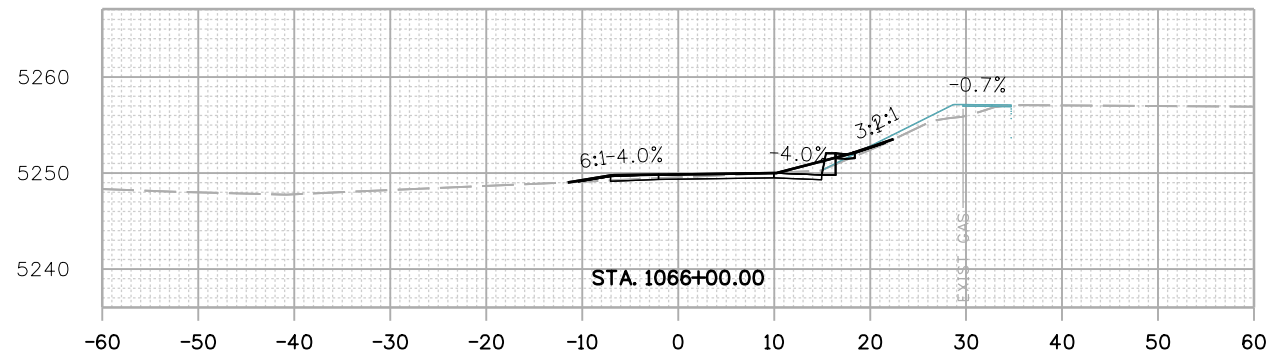
As Constructed
 No Revisions:
 Revised:
 Void:

CD 119 BIKEWAY
 CROSS SECTIONS

Designer: MMA
 Detailer: MDC
 Sheet Subset: XSEC
 Structure Numbers:
 Subset Sheets: 13 of 91

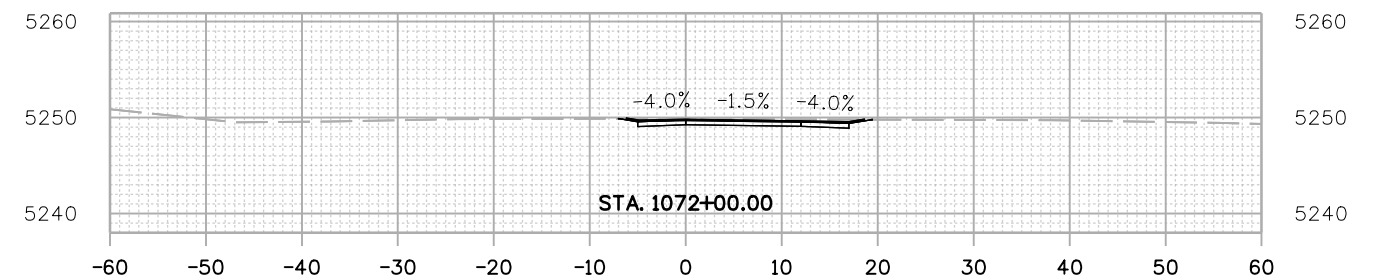
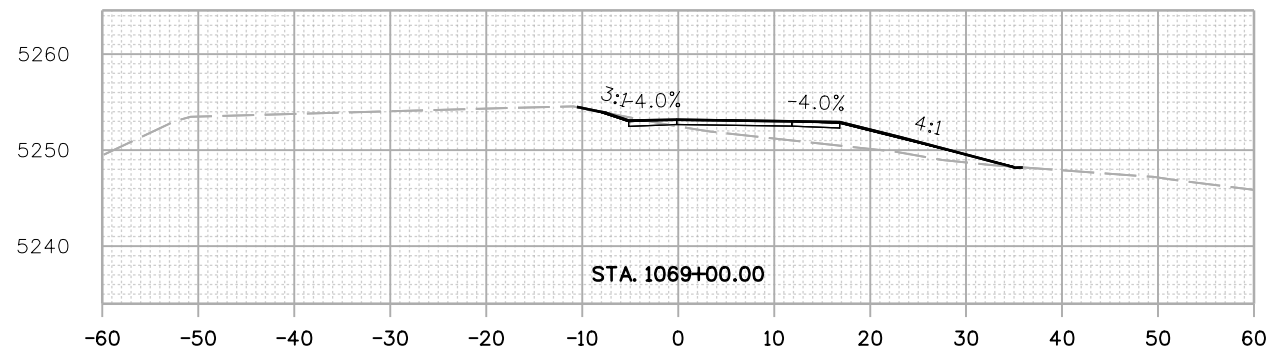
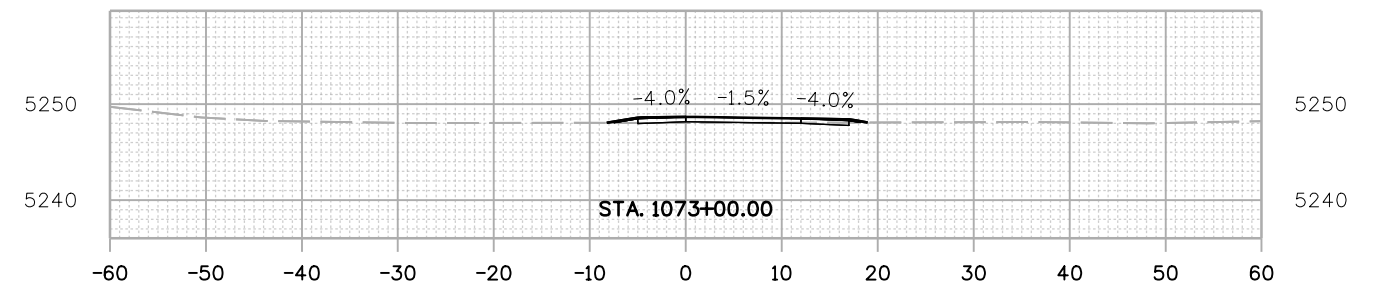
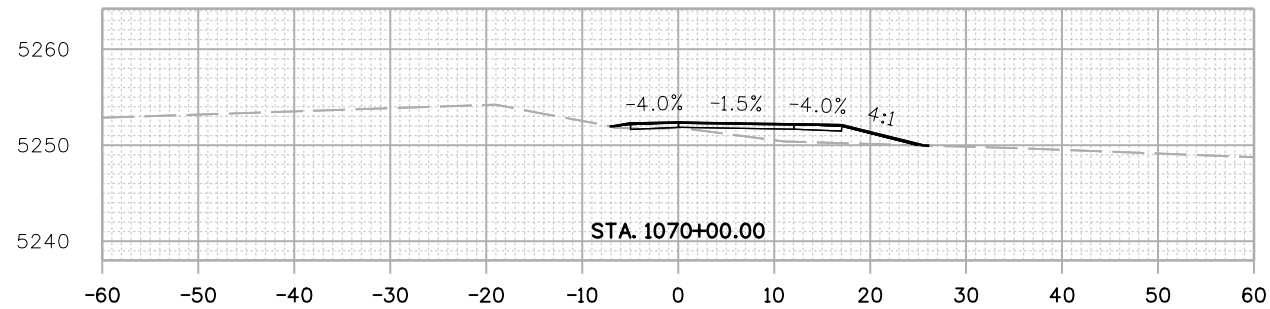
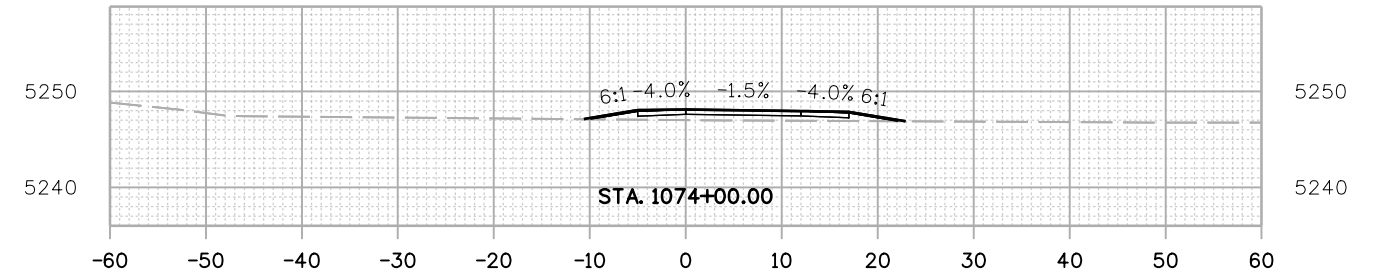
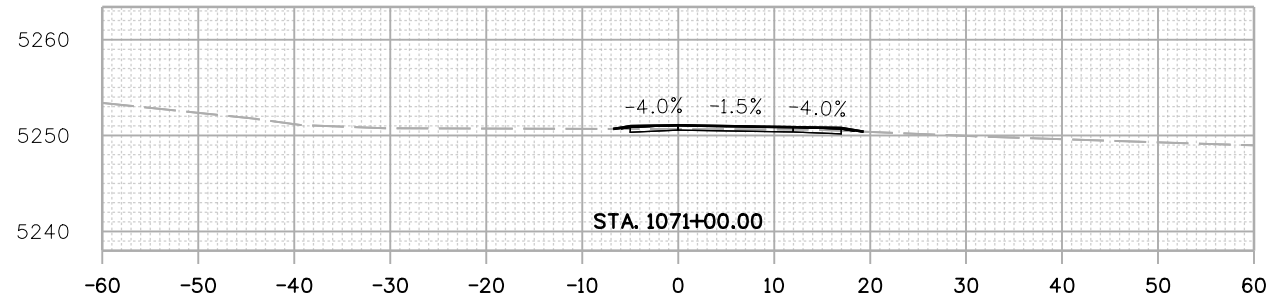
Project No./Code
 Sheet Number 195

Michael Carlson 3:09:51 PM pw:\mullereng-pw-01\Documents\2021 Projects\21-015.01 CO 119 Bikeway\01 Pre-Construction\Sheets\950_21015_RD_XS_SEG 01



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| All seals for this set of drawings are applied to the cover page(s) | Print Date: 6/28/2022 | 0000 0000 0000 | Sheet Revisions | | | | As Constructed | | CD 119 BIKEWAY CROSS SECTIONS | | Project No./Code |
| | File Name: 950_21015_RD_XS_SEG 01.dgn | | Date: | Comments | Init. | | No Revisions: | | | | |
| | Horiz. Scale: Vert. Scale: As Noted | | | | | | Revised: | Designer: MMA | Structure Numbers | | |
| | Unit Information | | | | | | Void: | Detailer: MDC | Sheet Subset: XSEC | Subset Sheets: 14 of 91 | Sheet Number 196 |

Michael Carlson 3:10:22 PM pw:\mullereng-pw.bentley.com\mullereng-pw-01\Documents\2021 Projects\21-015.01 CO 119 Bikeway\01 Pre-Construction\Sheets\950_21015_RD_XS_SEG 01



All seals for this set of drawings are applied to the cover page(s)

Print Date: 6/28/2022
 File Name: 950_21015_RD_XS_SEG 01.dgn
 Horiz. Scale: Vert. Scale: As Noted
 Unit Information



Sheet Revisions

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CO 119 BIKEWAY

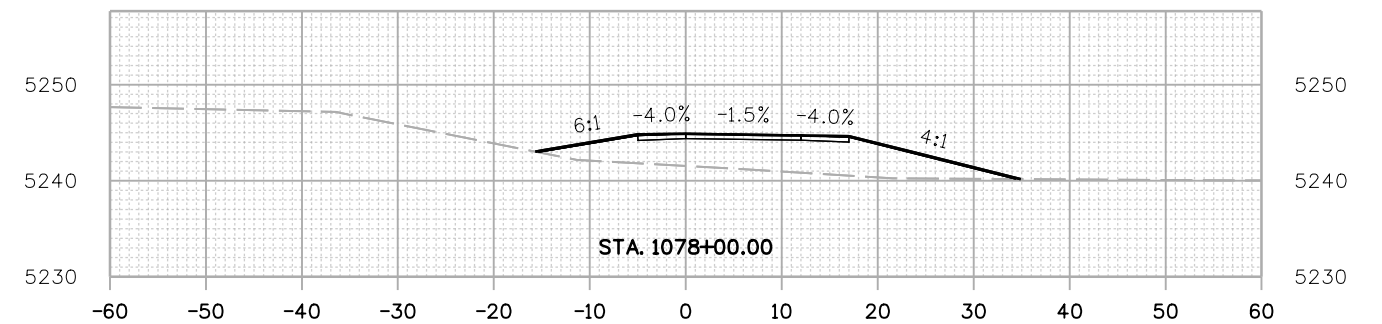
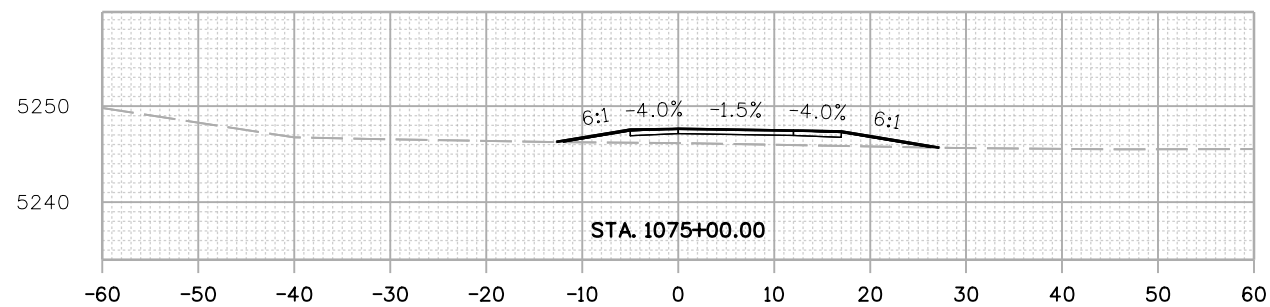
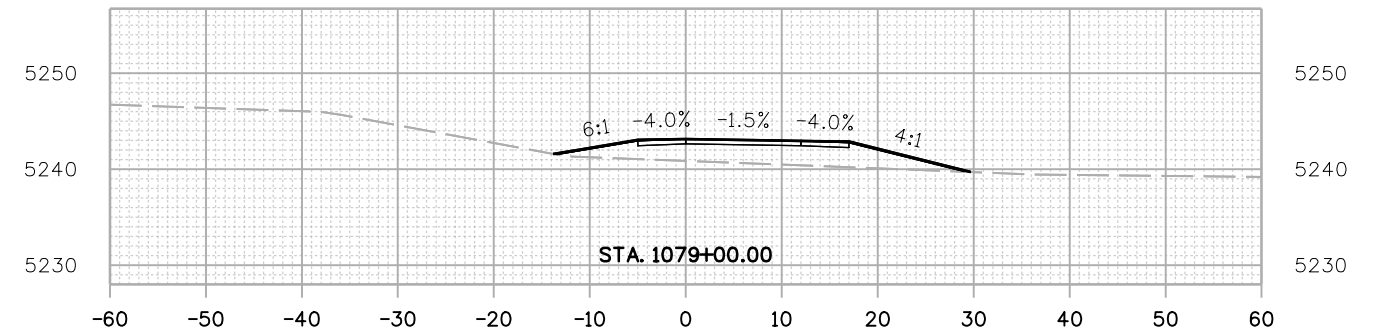
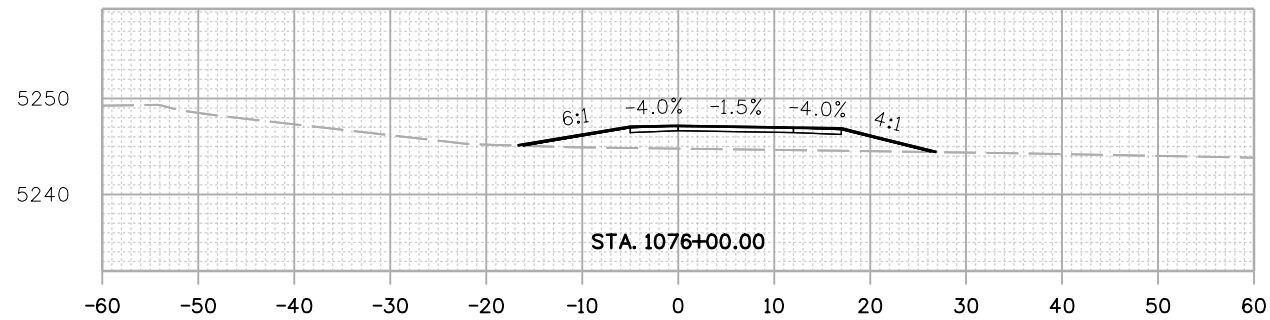
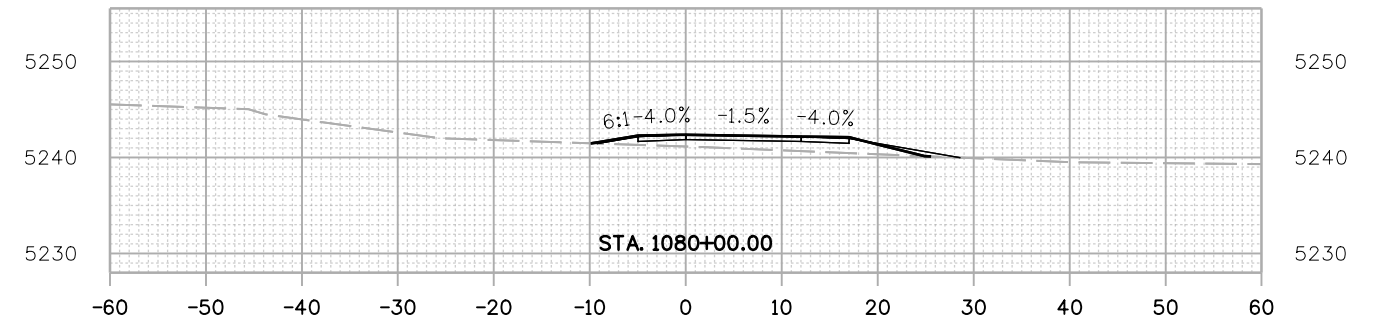
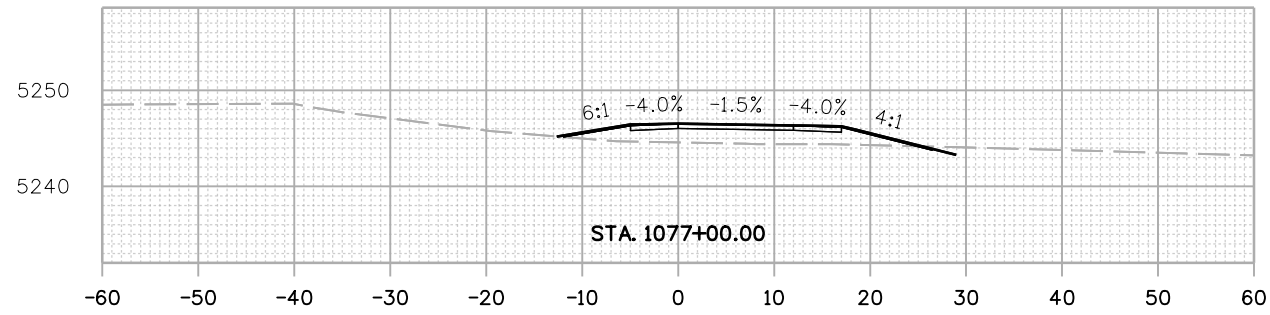
CROSS SECTIONS

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| Designer: | MMA | Structure Numbers | |
| Detailer: | MDC | | |
| Sheet Subset: | XSEC | Subset Sheets: | 15 of 91 |

Project No./Code

Sheet Number 197

Michael Carlson 3:11:08 PM pw:\mullereng-pw-01\Documents\2021 Projects\21-015.01 CO 119 Bikeway\01 Pre-Construction\Sheets\950_21015_RD_XS_SEG 01



All seals for this set of drawings are applied to the cover page(s)

Print Date: 6/28/2022
 File Name: 950_21015_RD_XS_SEG 01.dgn
 Horiz. Scale: Vert. Scale: As Noted
 Unit Information



Sheet Revisions

| Date: | Comments | Init. |
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As Constructed

No Revisions:

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CD 119 BIKEWAY

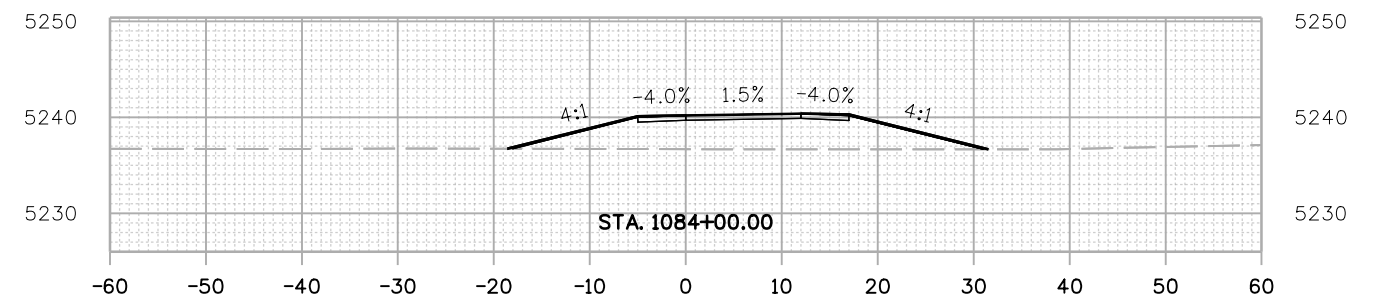
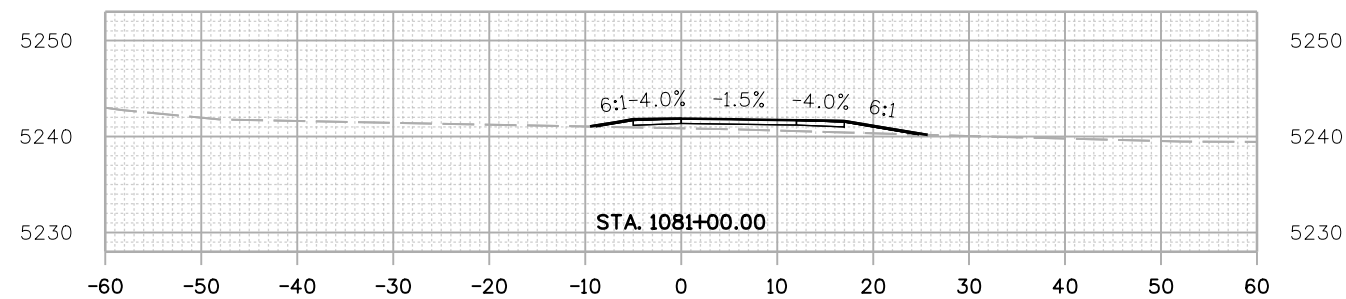
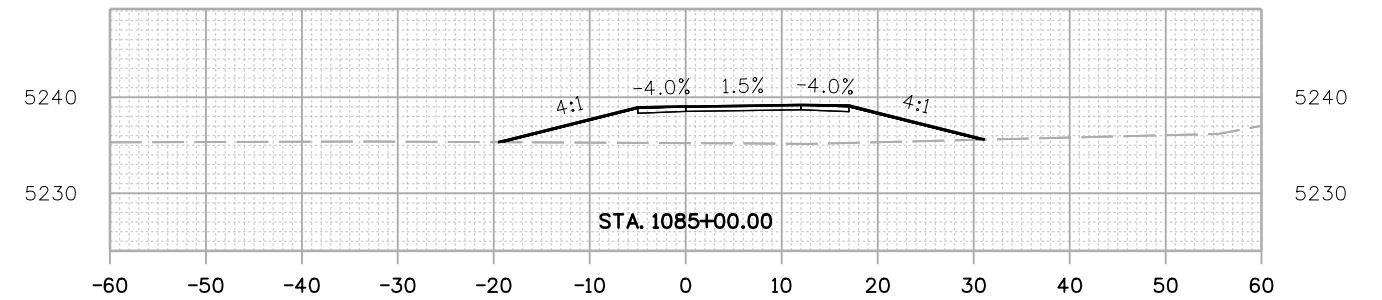
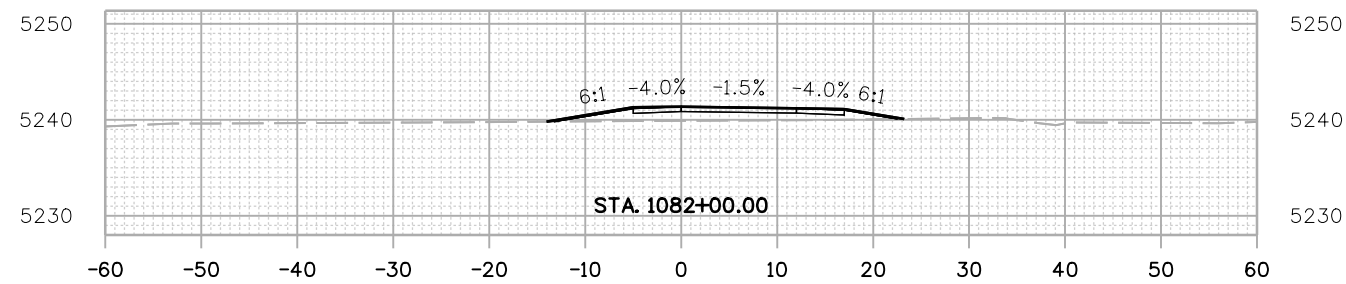
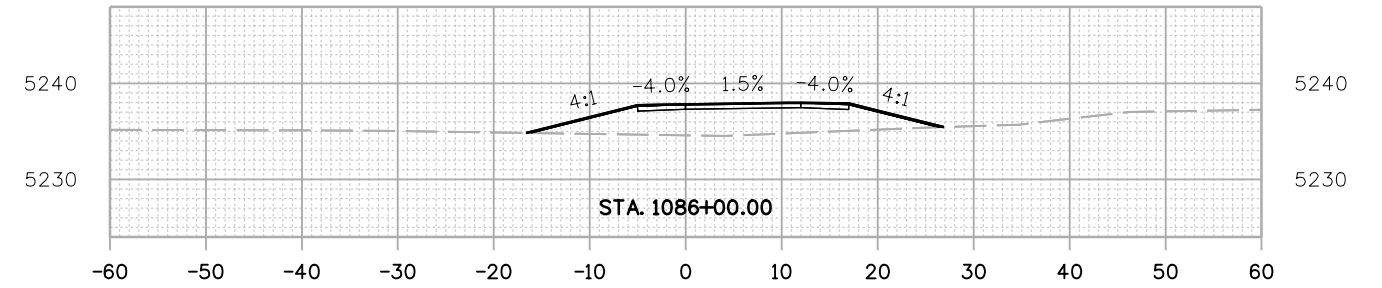
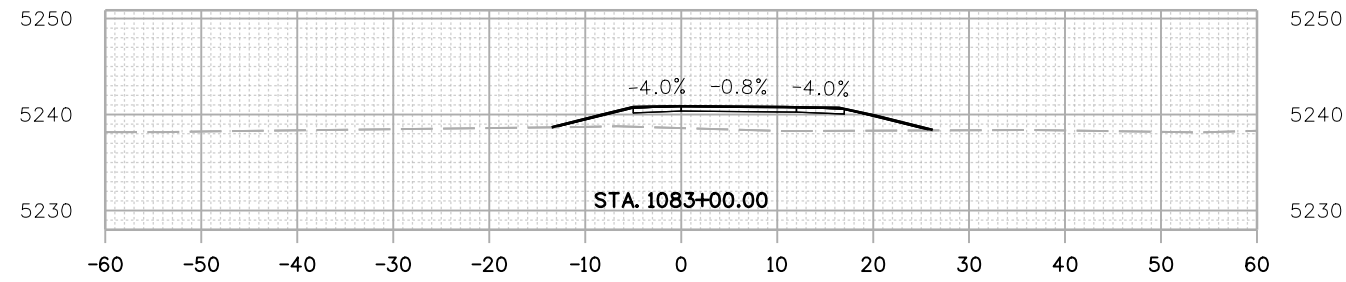
CROSS SECTIONS

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| Designer: | MMA | Structure Numbers | |
| Detailer: | MDC | | |
| Sheet Subset: | XSEC | Subset Sheets: | 16 of 91 |

Project No./Code

Sheet Number 198

Michael Carlson 3:11:54 PM pw:\mullereng-pw-01\Documents\2021 Projects\21-015.01 CO 119 Bikeway\01 Pre-Construction\Sheets\950_21015_RD_XS_SEG 01



All seals for this set of drawings are applied to the cover page(s)

Print Date: 6/28/2022
 File Name: 950_21015_RD_XS_SEG 01.dgn
 Horiz. Scale: Vert. Scale: As Noted
 Unit Information



Sheet Revisions

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As Constructed

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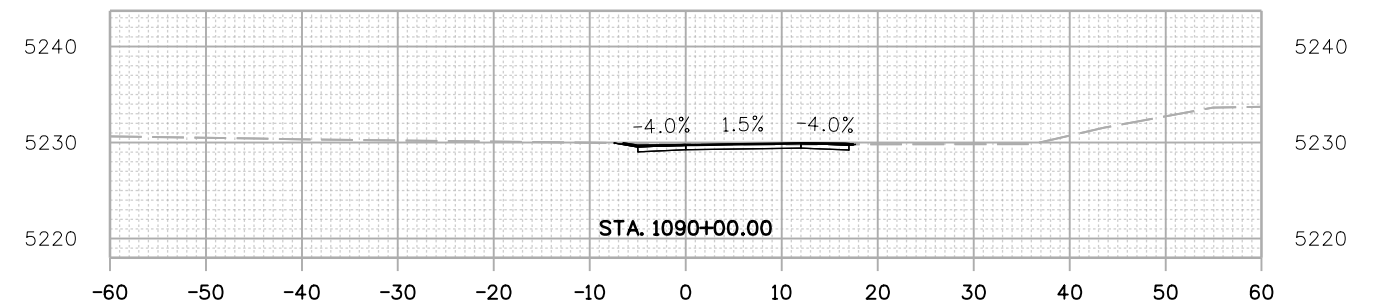
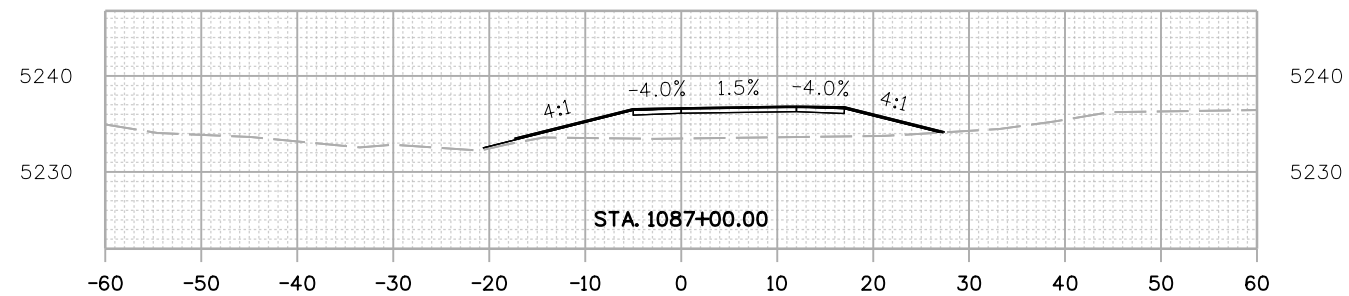
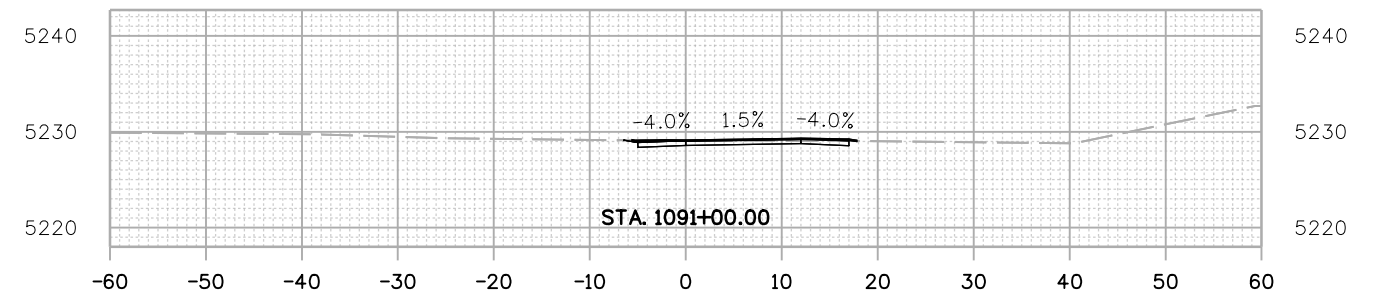
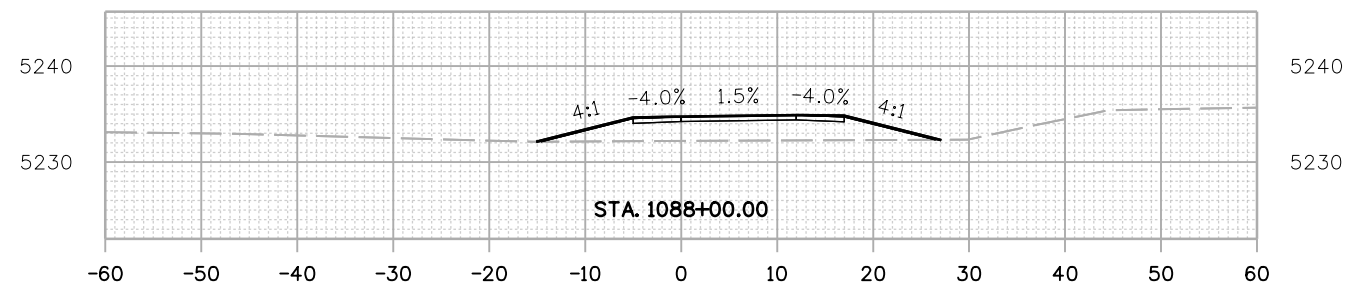
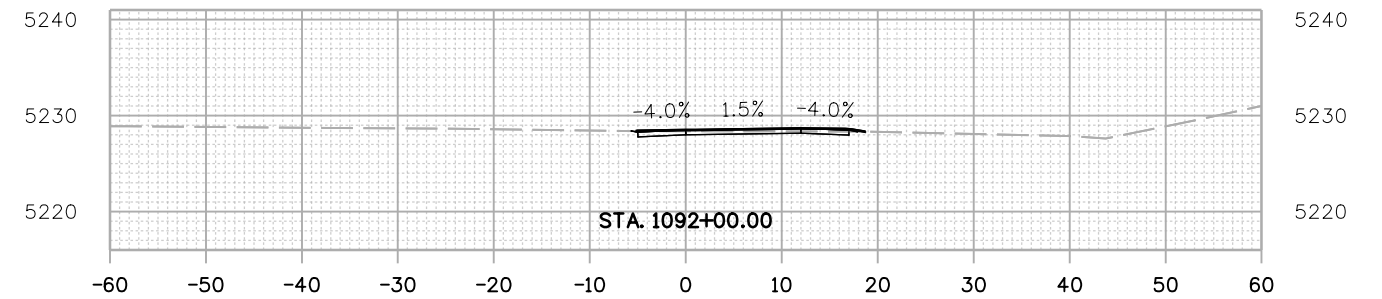
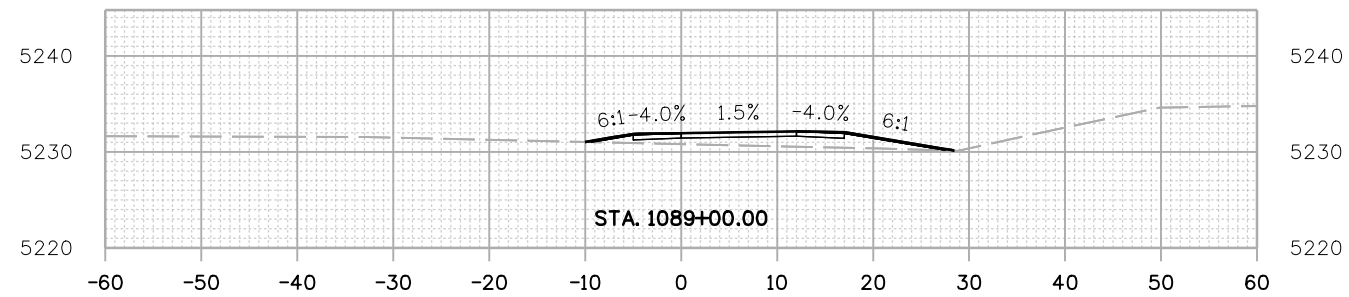
CD 119 BIKEWAY
 CROSS SECTIONS

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| Designer: | MMA | Structure Numbers | |
| Detailer: | MDC | | |
| Sheet Subset: | XSEC | Subset Sheets: | 17 of 91 |

Project No./Code

Sheet Number 199

Michael Carlson 3:12:40 PM pw:\mullereng-pw.bentley.com\mullereng-pw-01 Documents\2021 Projects\21-015.01 CO 119 Bikeway\01 Pre-Construction\Sheets\950_21015_RD_XS_SEG 01



All seals for this set of drawings are applied to the cover page(s)

Print Date: 6/28/2022
 File Name: 950_21015_RD_XS_SEG 01.dgn
 Horiz. Scale: Vert. Scale: As Noted
 Unit Information



Sheet Revisions

| Date: | Comments | Init. |
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As Constructed

No Revisions:

Revised:

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CD 119 BIKEWAY

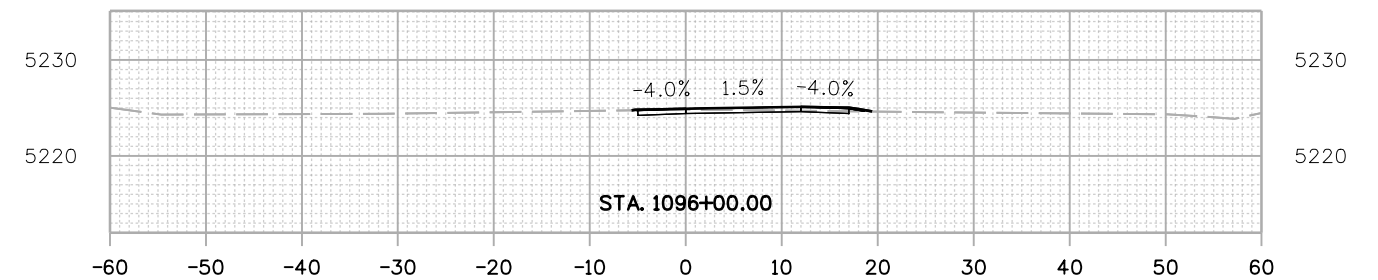
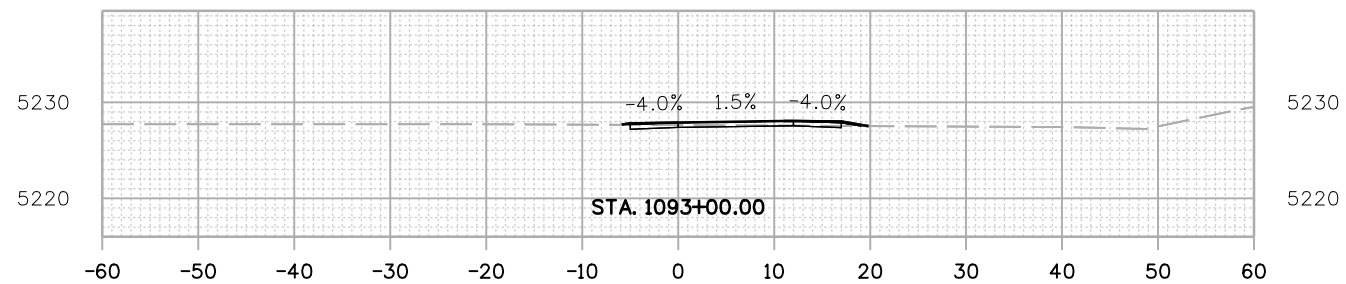
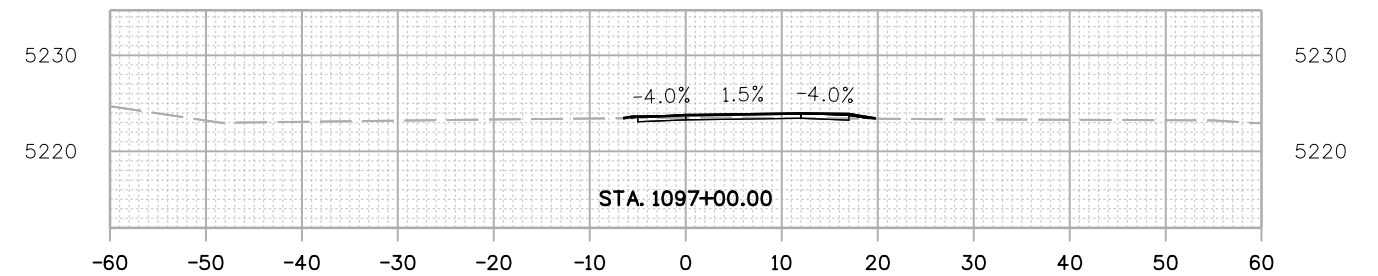
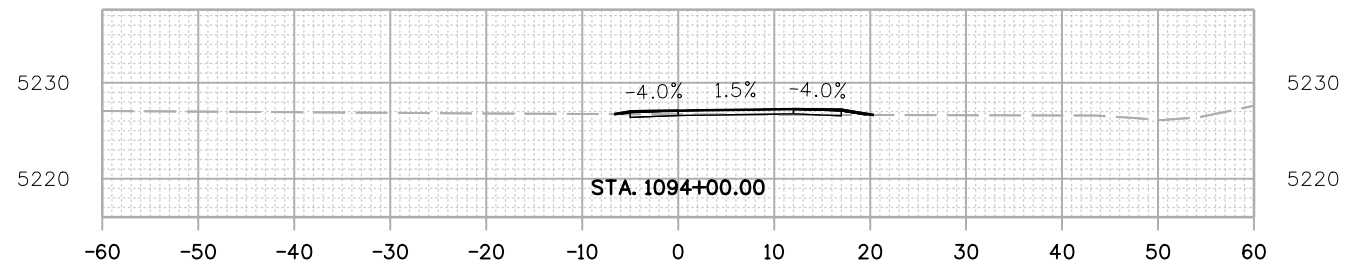
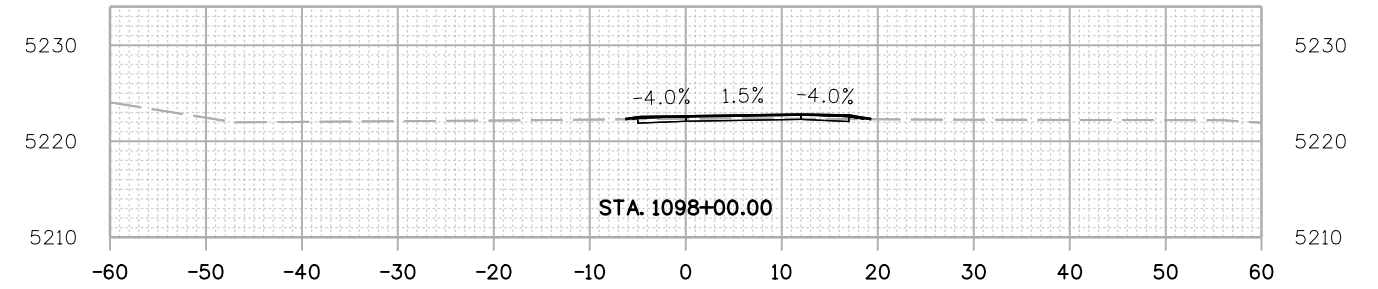
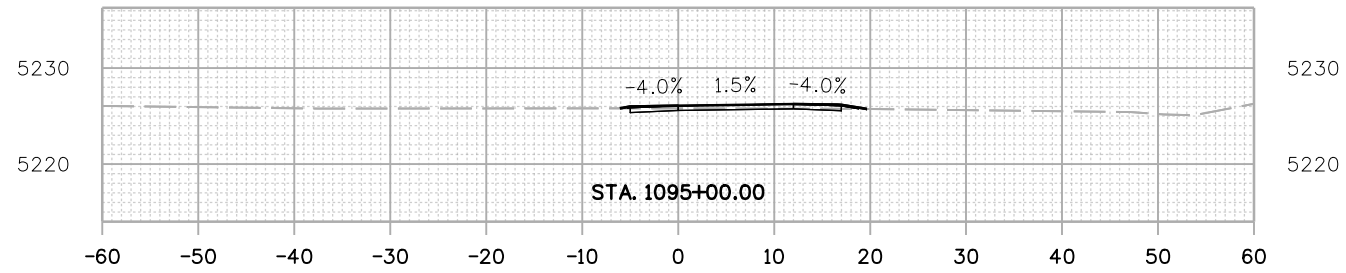
CROSS SECTIONS

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| Designer: | MMA | Structure Numbers | |
| Detailer: | MDC | | |
| Sheet Subset: | XSEC | Subset Sheets: | 18 of 91 |

Project No./Code

Sheet Number 200

Michael Carlson 3:13:26 PM pw:\mullereng-pw.bentley.com:mullereng-pw-01\Documents\2021 Projects\21-015-01 CO 119 Bikeway\01 Pre-Construction\Sheets\950_21015_RD_XS_SEG 01



All seals for this set of drawings are applied to the cover page(s)

Print Date: 6/28/2022
 File Name: 950_21015_RD_XS_SEG 01.dgn
 Horiz. Scale: Vert. Scale: As Noted
 Unit Information



Sheet Revisions

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As Constructed

No Revisions:

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CD 119 BIKEWAY

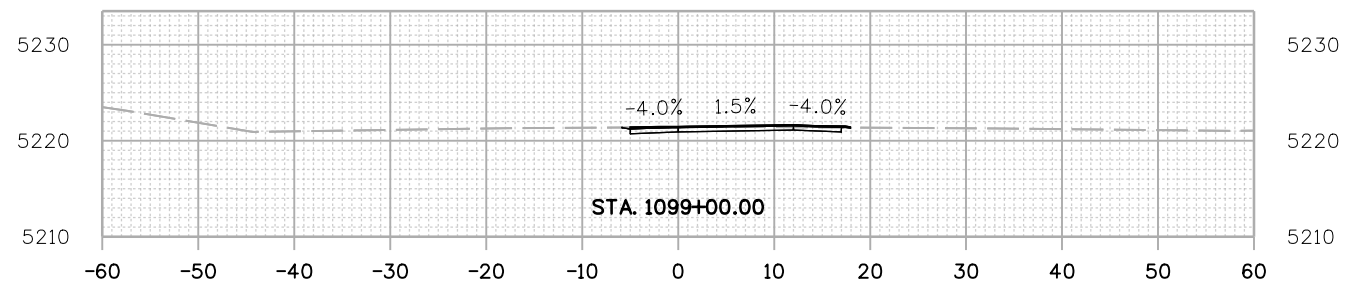
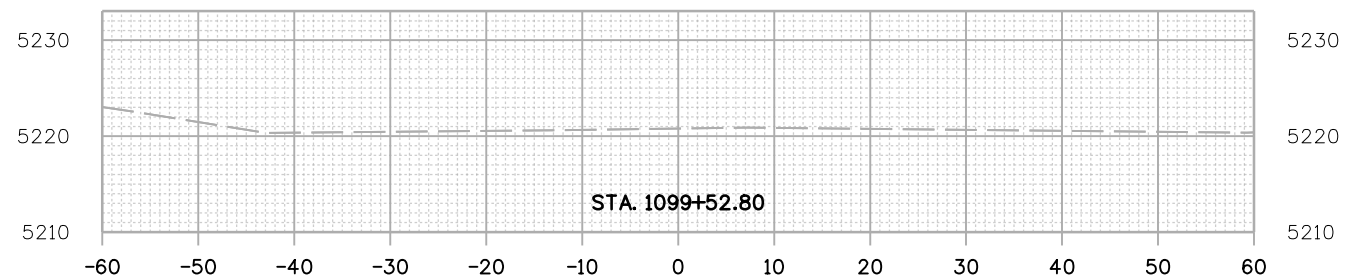
CROSS SECTIONS

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| Designer: | MMA | Structure Numbers | |
| Detailer: | MDC | | |
| Sheet Subset: | XSEC | Subset Sheets: | 19 of 91 |

Project No./Code

Sheet Number 201

Michael Carlson 3:14:11 PM pwr\mullereng-pw-bentley.com\mullereng-pw-01\Documents\2021 Projects\21-015.01 CO 119 Bikeway\01 Pre-Construction\Sheets\950_21015_RD_XS_SEG 01



All seals for this set of drawings are applied to the cover page(s)

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| Print Date: 6/28/2022 |
| File Name: 950_21015_RD_XS_SEG 01.dgn |
| Horiz. Scale: Vert. Scale: As Noted |
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| Sheet Revisions | | |
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| Date: | Comments | Init. |
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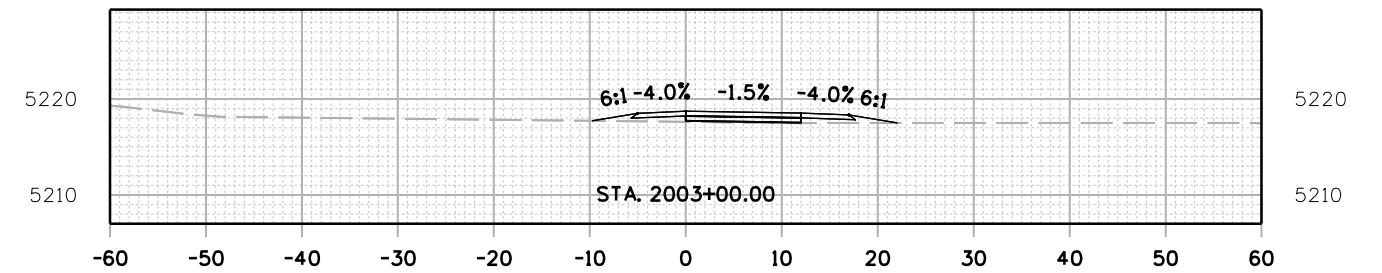
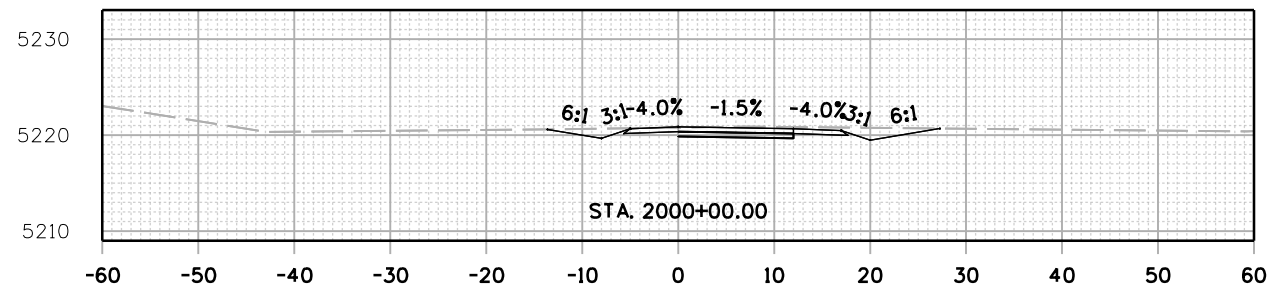
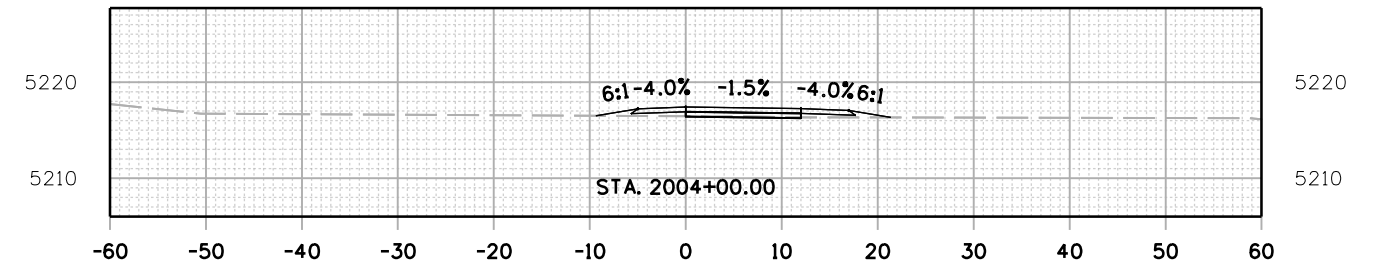
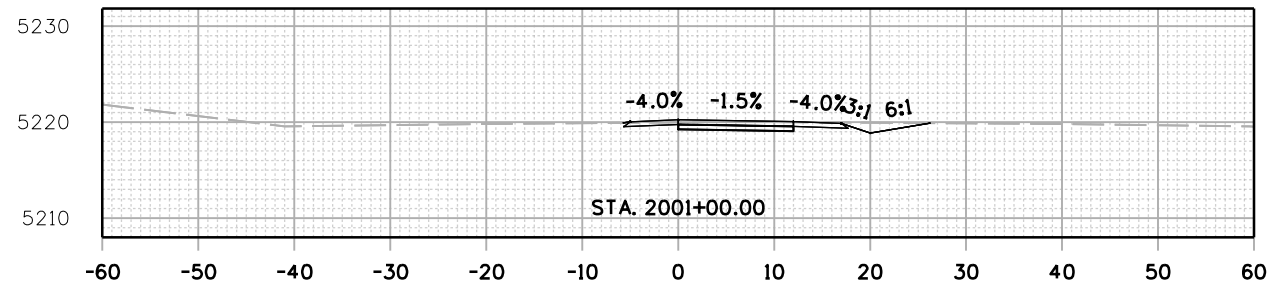
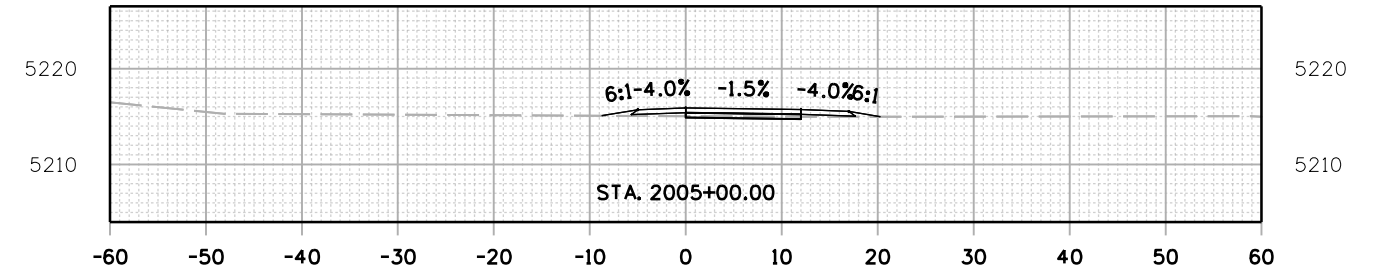
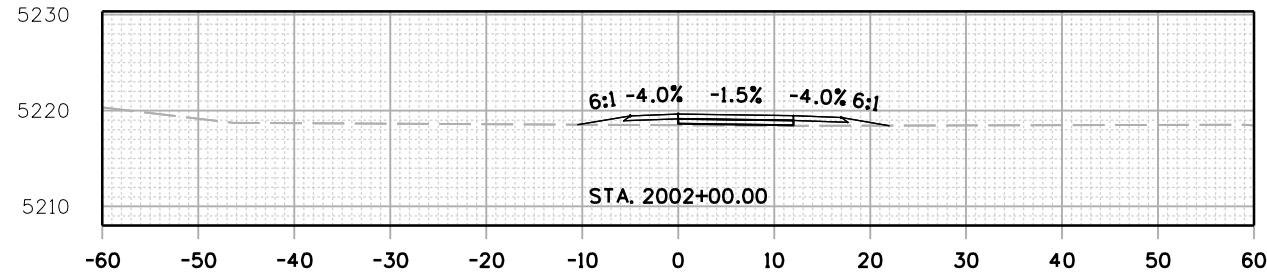


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| As Constructed |
| No Revisions: |
| Revised: |
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| CD 119 BIKEWAY | | | |
| CROSS SECTIONS | | | |
| Designer: | MMA | Structure Numbers | |
| Detailer: | MDC | | |
| Sheet Subset: | XSEC | Subset Sheets: | 20 of 91 |

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| Project No./Code |
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| Sheet Number 202 |

jashagun 4:13:08 PM pwt://mullereng-pw-bentley.com/mullereng-pw-01/Projects/21-015-01 CO 119 Bikeway/01 Pre-Construction/Roadway/21015_RD_SHEET_119BW(SEG2)_XSEC



All seals for this set of drawings are applied to the cover page(s)

Print Date: 28-JUN-2022
 File Name: 21015_RD_SHEET_119BW(SEG2)_XSEC.dgn
 Horiz. Scale: Vert. Scale: As Noted
 Unit Information
MULLER
 ENGINEERING COMPANY

| Sheet Revisions | | |
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| Date: | Comments | Init. |
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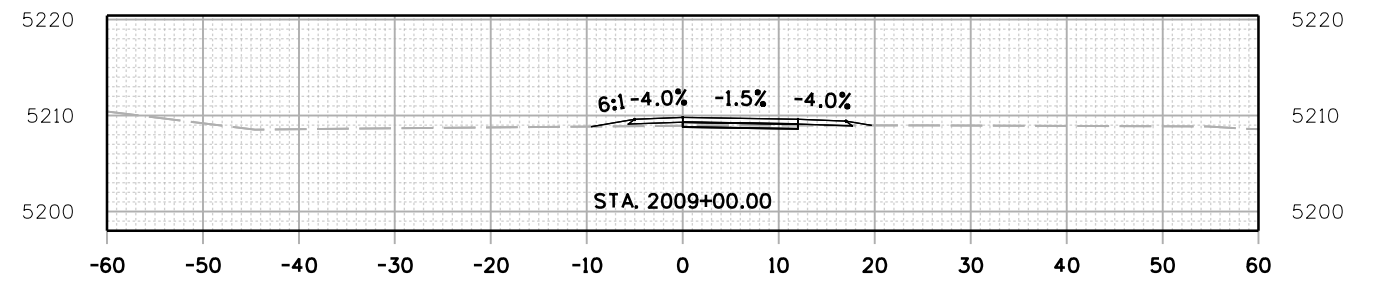
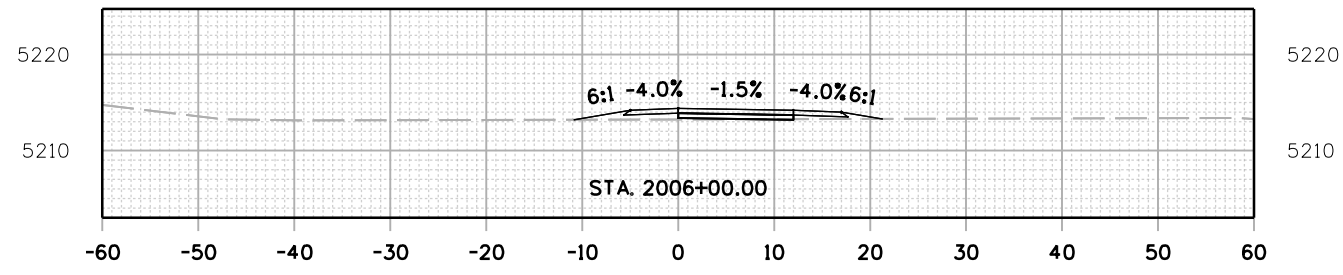
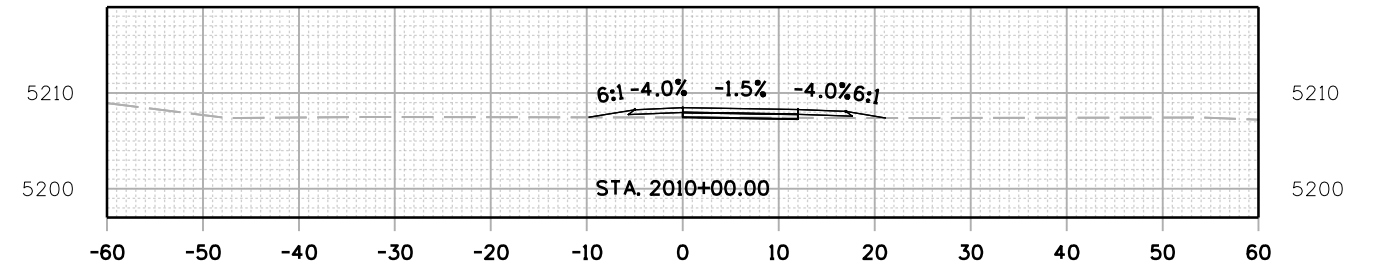
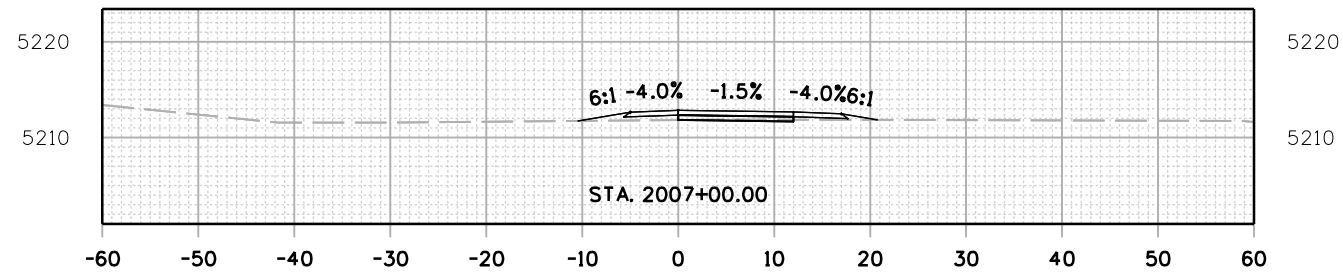
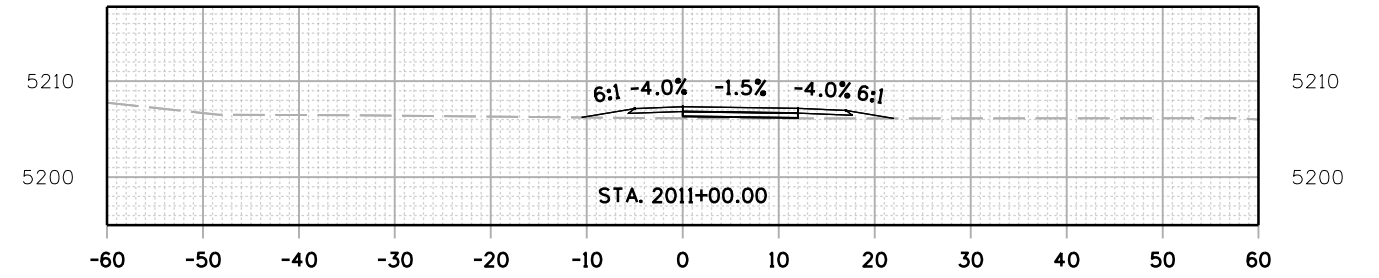
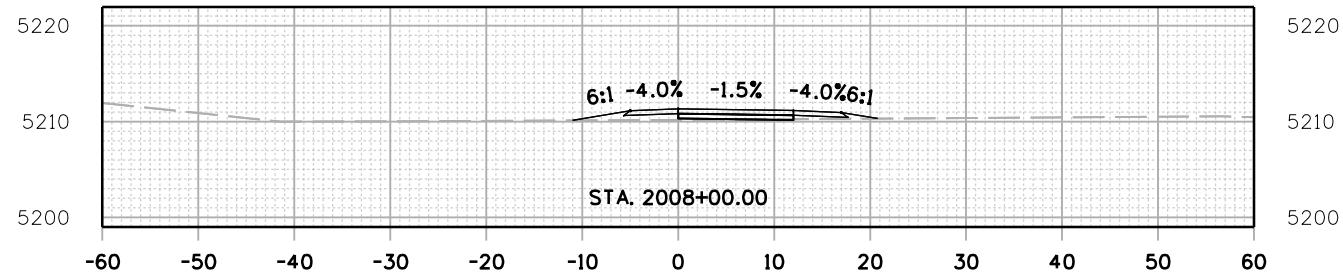


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| As Constructed |
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| Revised: |
| Void: |

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| CD 119 BIKEWAY | | | |
| CROSS SECTIONS | | | |
| Designer: | RML | Structure | |
| Detailer: | PDP | Numbers | |
| Sheet Subset: | XSEC | Subset Sheets: | 21 of 91 |

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| Project No./Code |
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| Sheet Number 203 |

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All seals for this set of drawings are applied to the cover page(s)

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| Print Date: 28-JUN-2022 | |
| File Name: 21015_RD_SHEET_119BW(SEG2)_XSEC.dgn | |
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| Unit Information | |
| MULLER ENGINEERING COMPANY | |

| Sheet Revisions | | |
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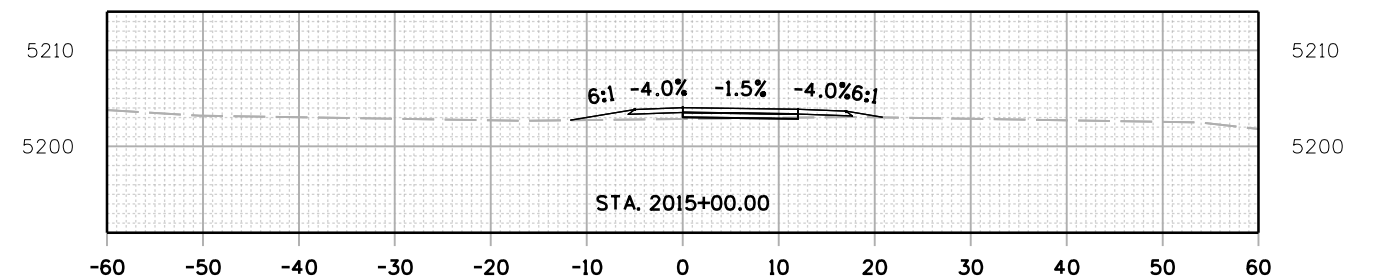
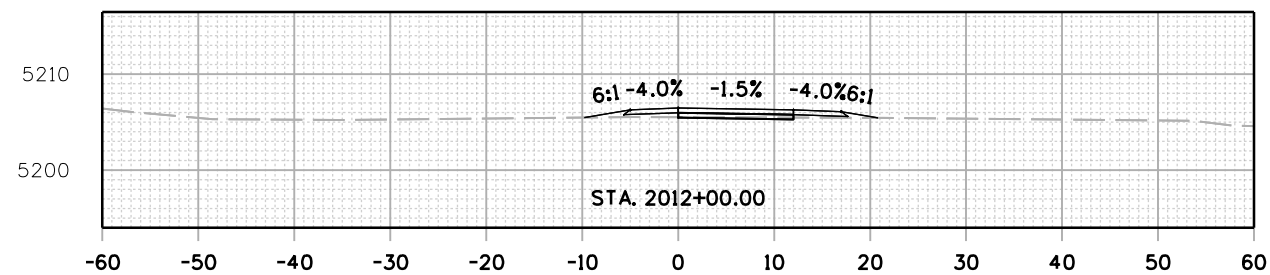
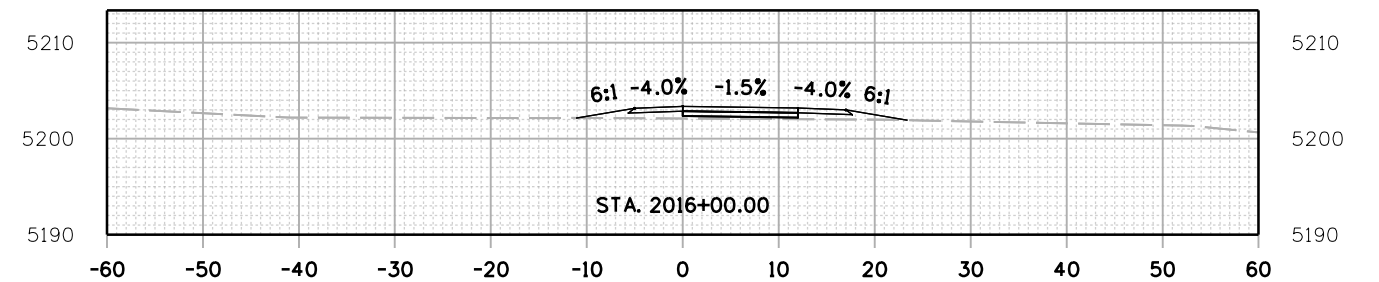
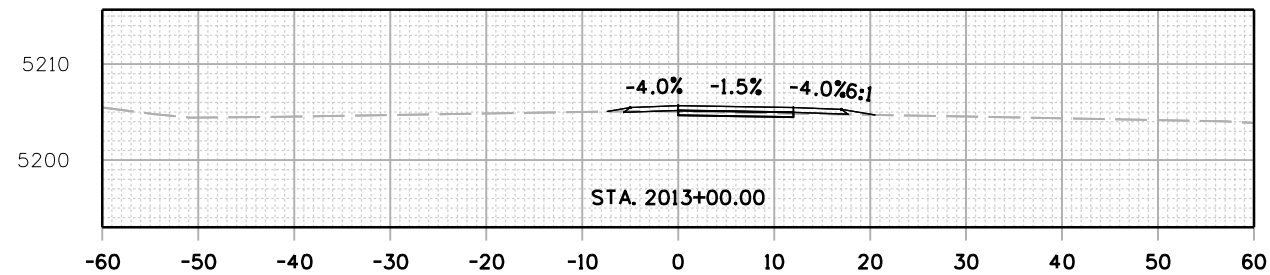
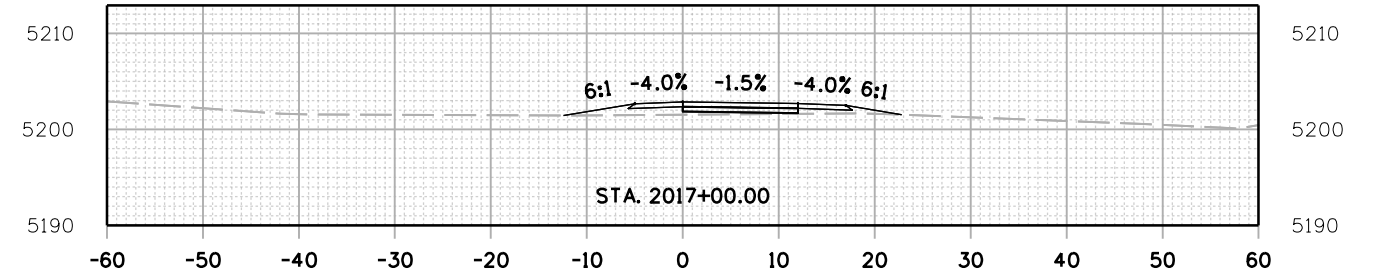
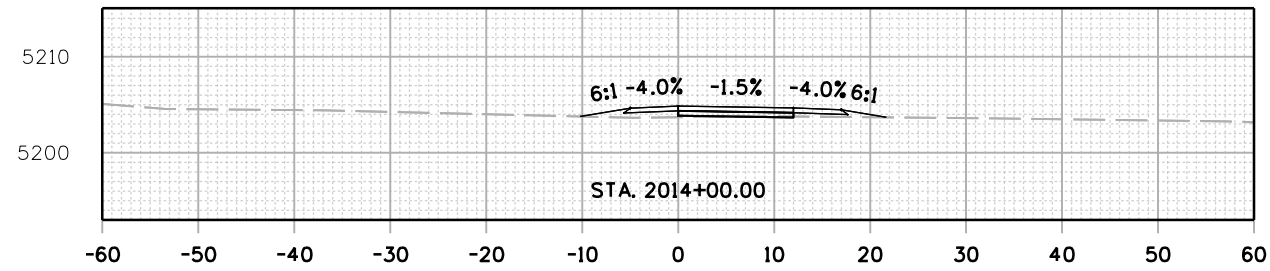


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| CD 119 BIKEWAY CROSS SECTIONS | | | |
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| Designer: | RML | Structure Numbers | |
| Detailer: | PDP | | |
| Sheet Subset: | XSEC | Subset Sheets: | 22 of 91 |

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| Project No./Code |
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| Sheet Number 204 |

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All seals for this set of drawings are applied to the cover page(s)

Print Date: 28-JUN-2022
 File Name: 21015_RD_SHEET_119BW(SEG2)_XSEC.dgn
 Horiz. Scale: Vert. Scale: As Noted
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| Sheet Revisions | | |
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| Date: | Comments | Init. |
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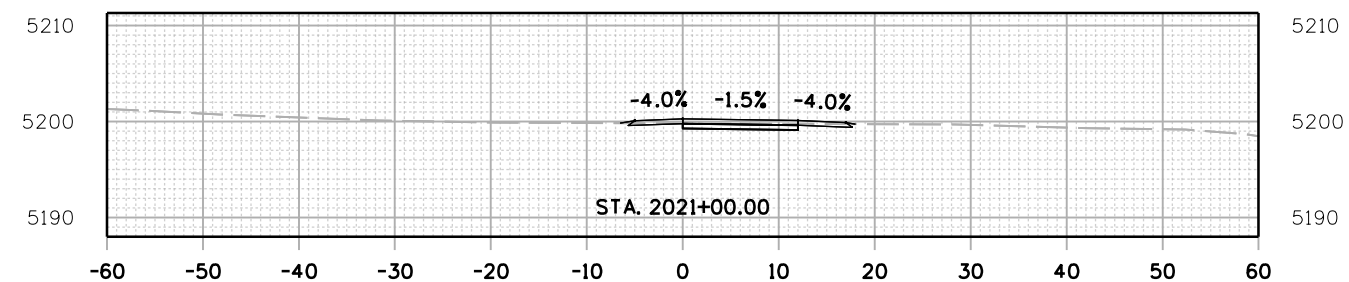
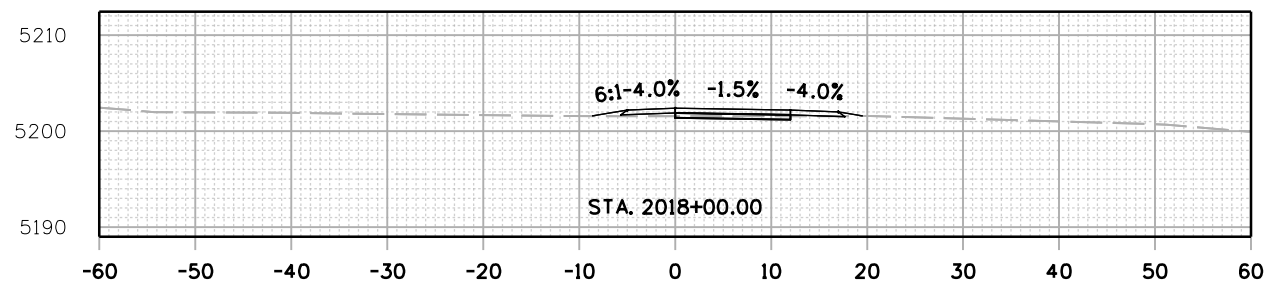
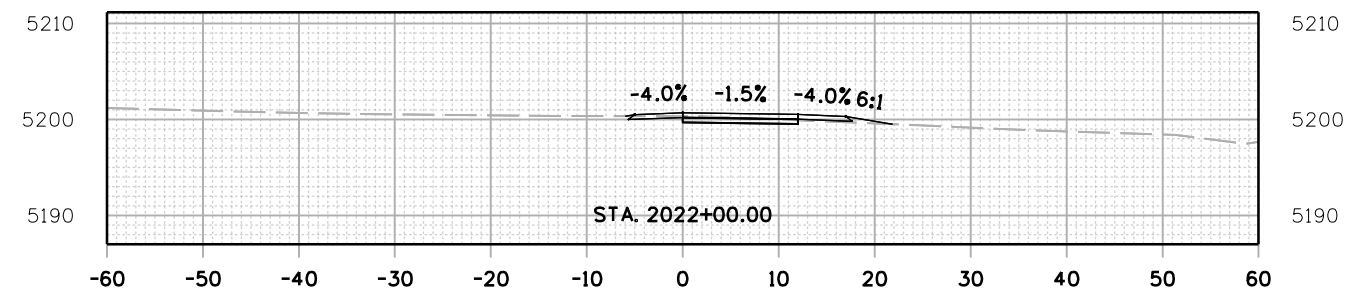
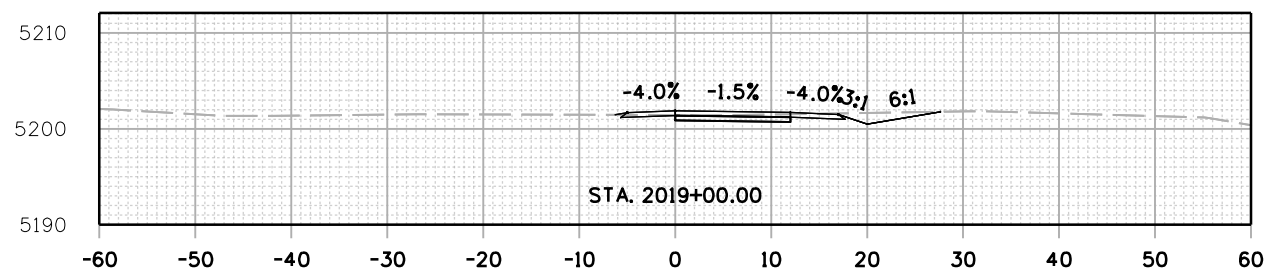
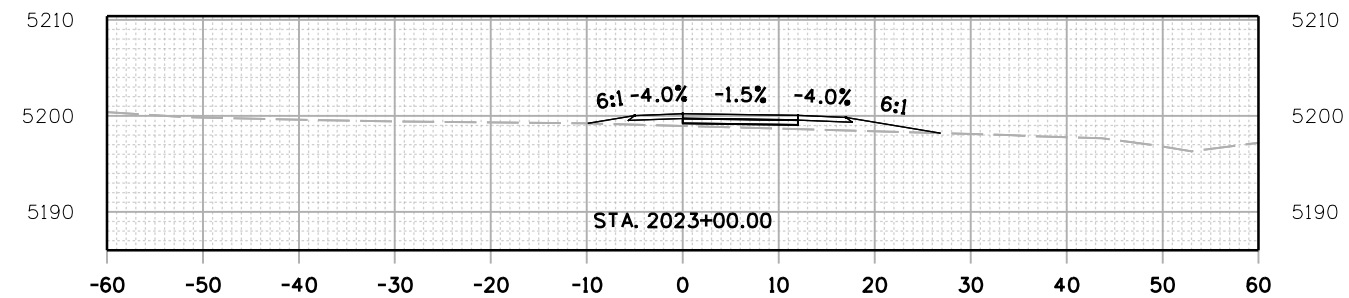
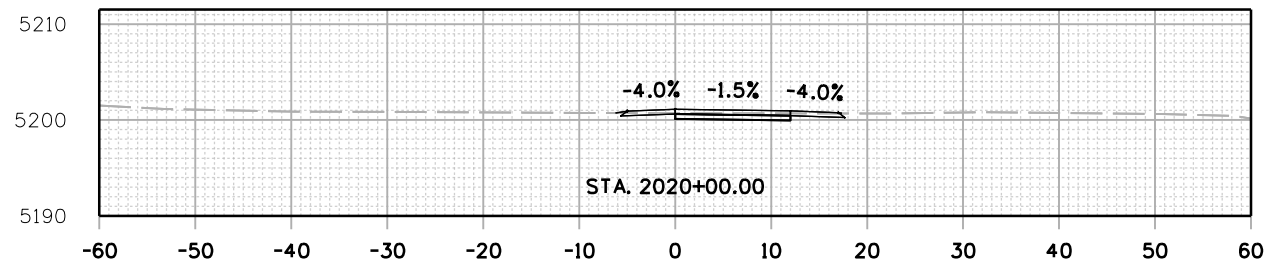


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| Designer: | RML | Structure | Numbers |
| Detailer: | PDP | Subset Sheets: | 23 of 91 |
| Sheet Subset: | XSEC | | |

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| Project No./Code |
| Sheet Number 205 |

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All seals for this set of drawings are applied to the cover page(s)

Print Date: 28-JUN-2022
 File Name: 21015_RD_SHEET_119BW(SEG2)_XSEC.dgn
 Horiz. Scale: Vert. Scale: As Noted
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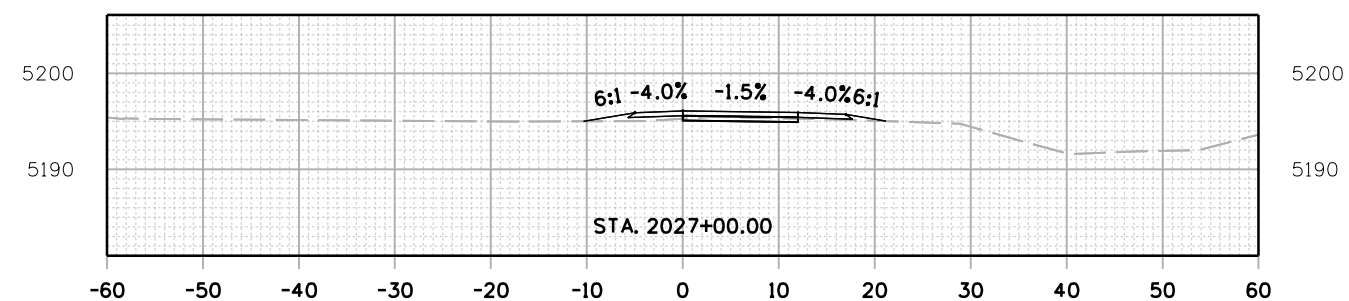
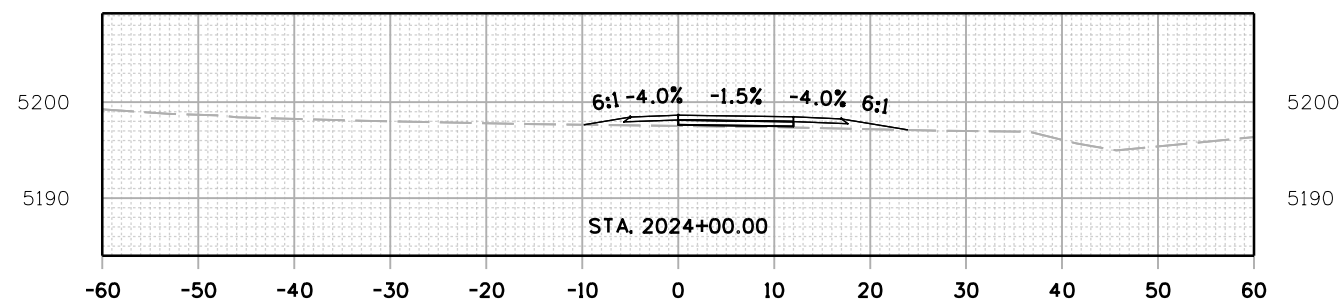
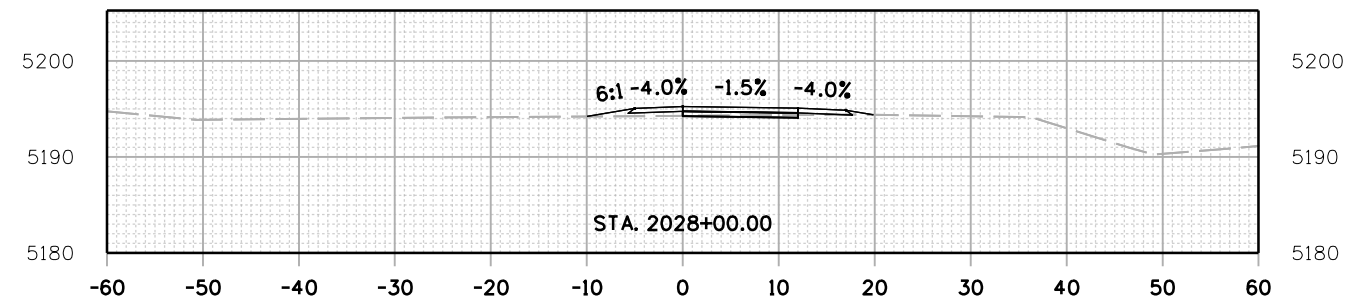
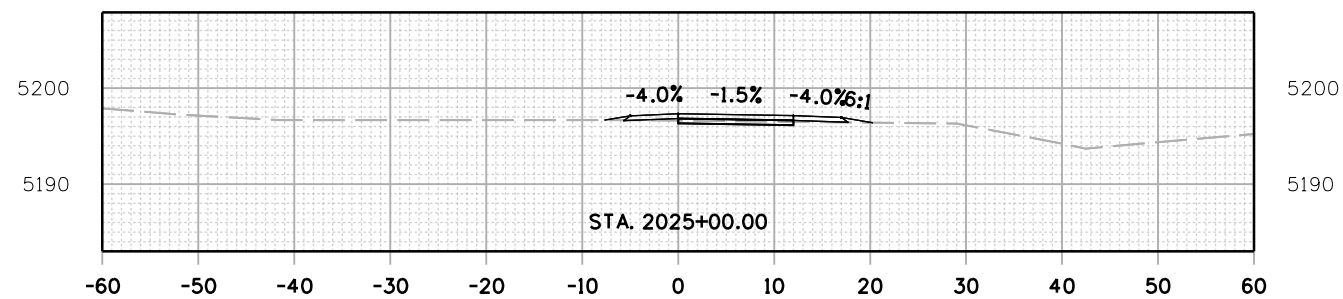
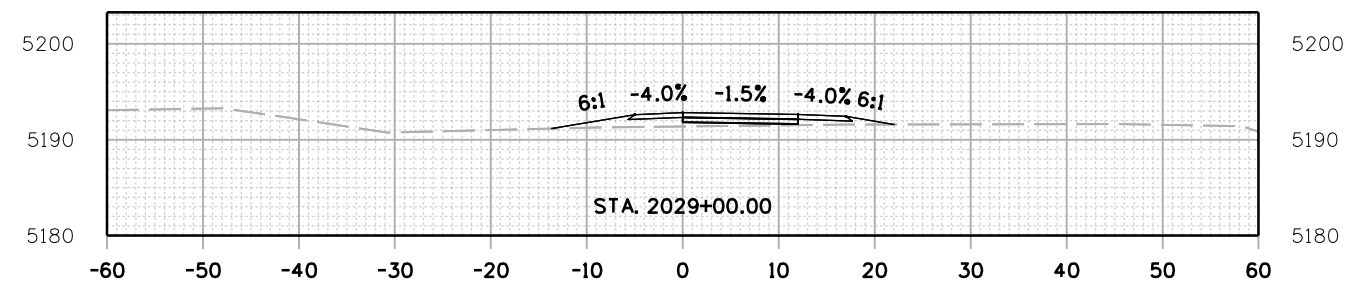
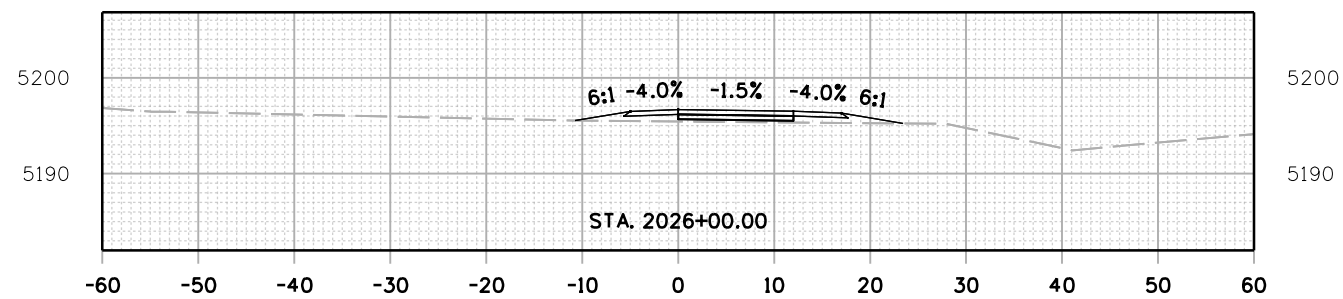


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| CD 119 BIKEWAY | | | |
| CROSS SECTIONS | | | |
| Designer: | RML | Structure | |
| Detailer: | PDP | Numbers | |
| Sheet Subset: | XSEC | Subset Sheets: | 24 of 91 |

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| Project No./Code |
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| Sheet Number 206 |

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All seals for this set of drawings are applied to the cover page(s)

Print Date: 28-JUN-2022
 File Name: 21015_RD_SHEET_119BW(SEG2)_XSEC.dgn
 Horiz. Scale: Vert. Scale: As Noted
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| Sheet Revisions | | |
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| Date: | Comments | Init. |
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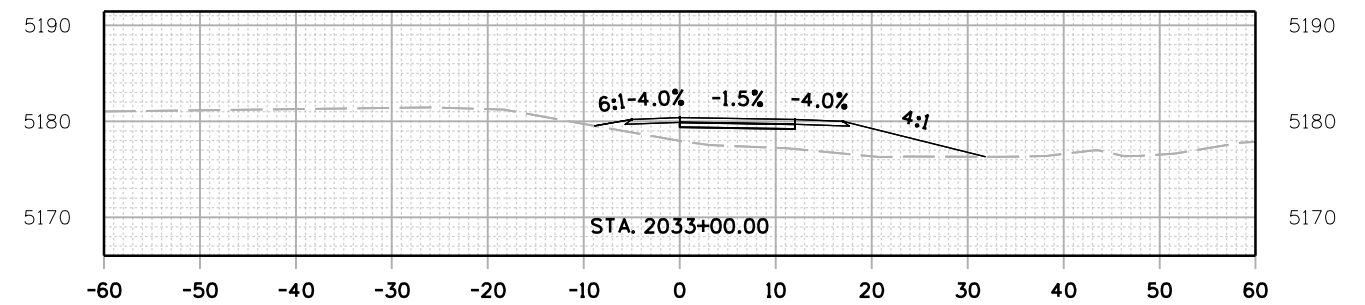
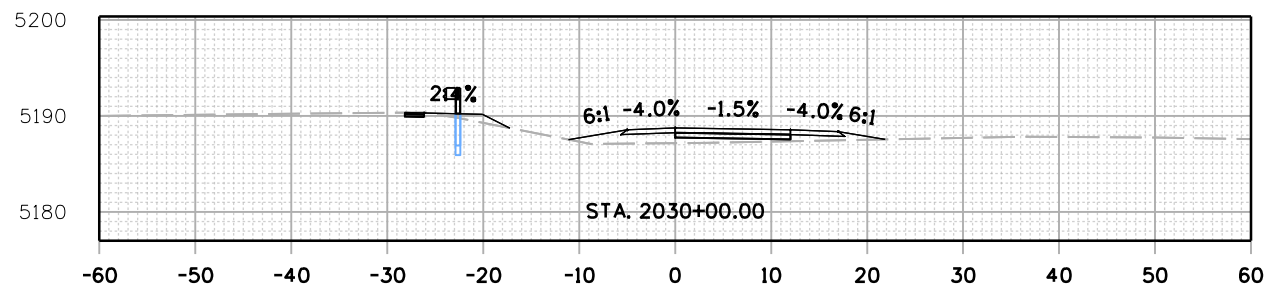
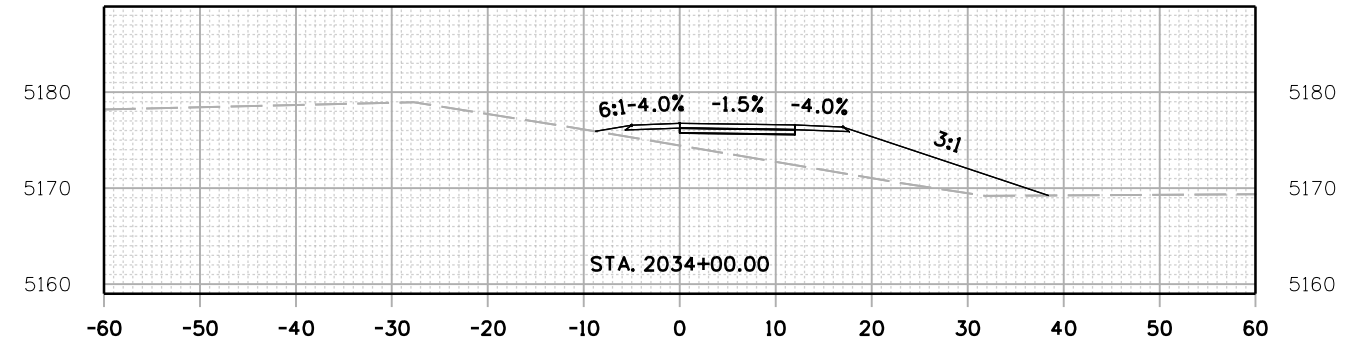
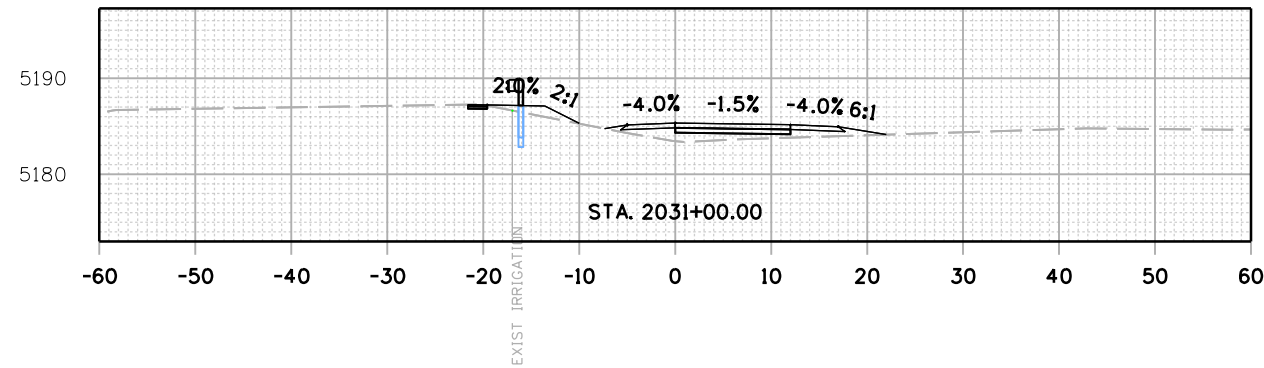
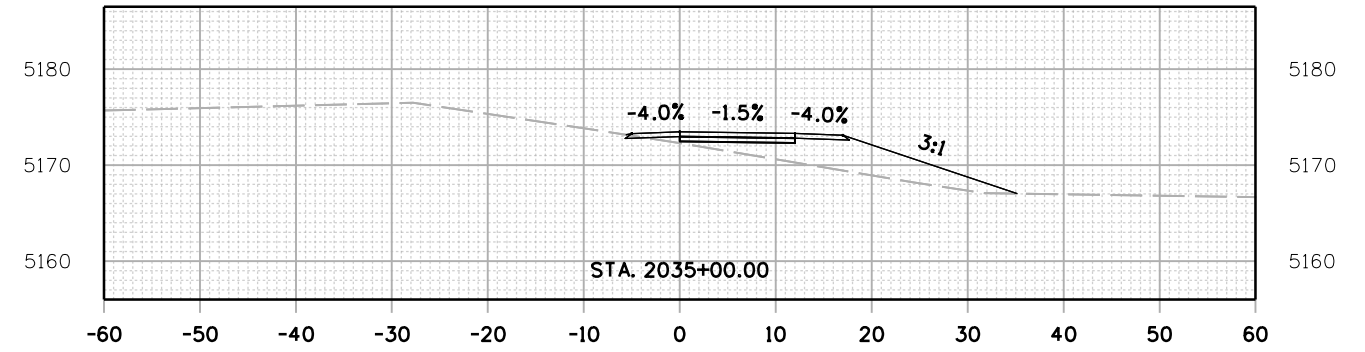
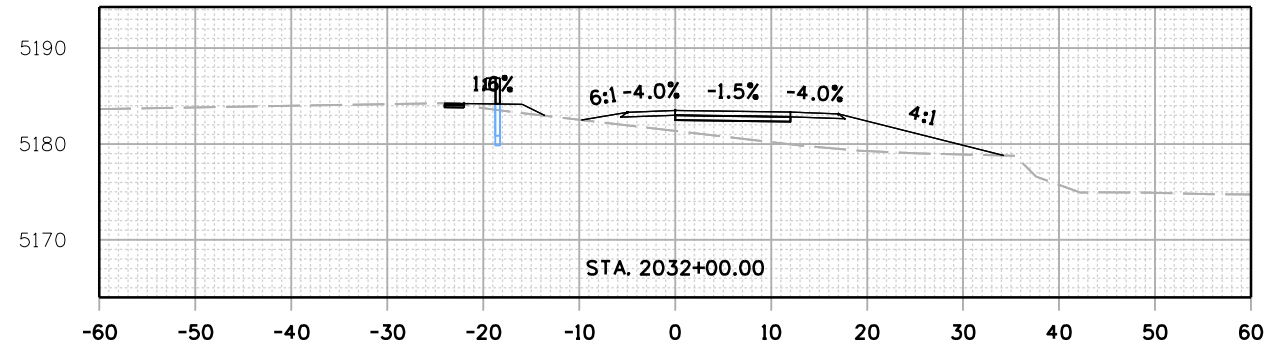


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| CD 119 BIKEWAY CROSS SECTIONS | | | |
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| Designer: | RML | Structure Numbers | |
| Detailer: | PDP | | |
| Sheet Subset: | XSEC | Subset Sheets: | 25 of 91 |

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| Project No./Code |
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| Sheet Number 207 |

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All seals for this set of drawings are applied to the cover page(s)

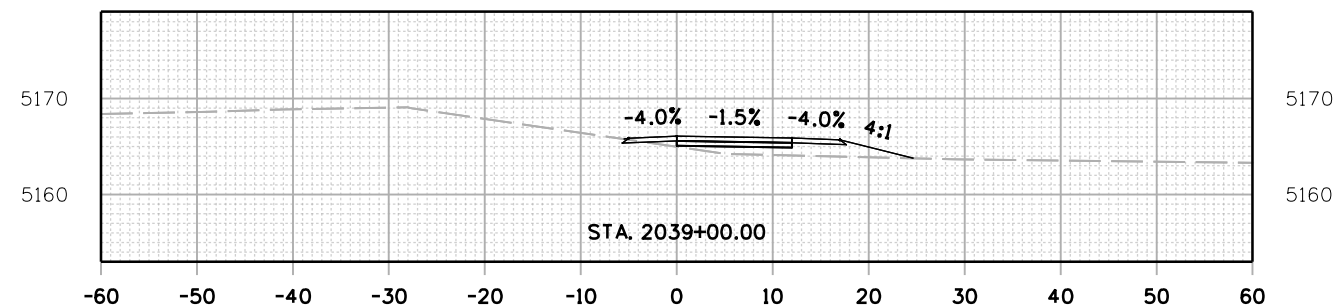
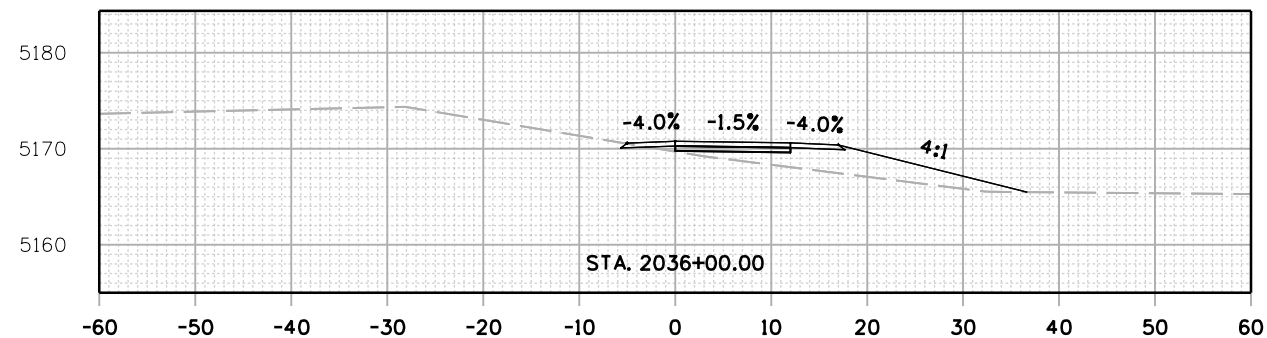
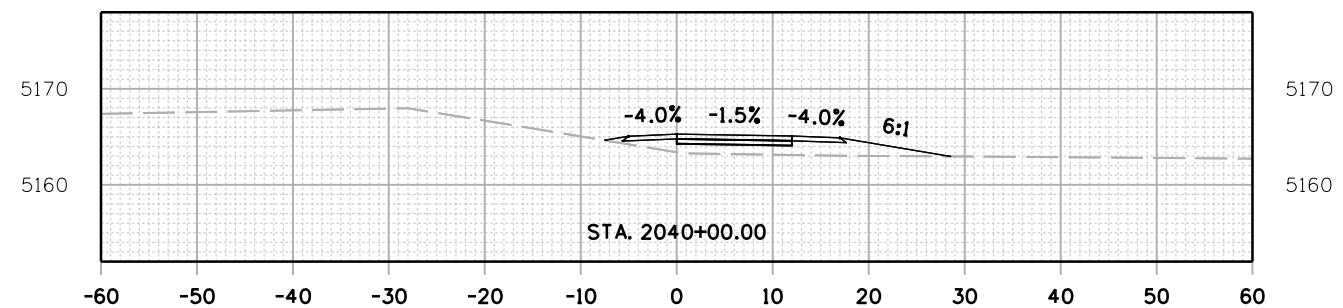
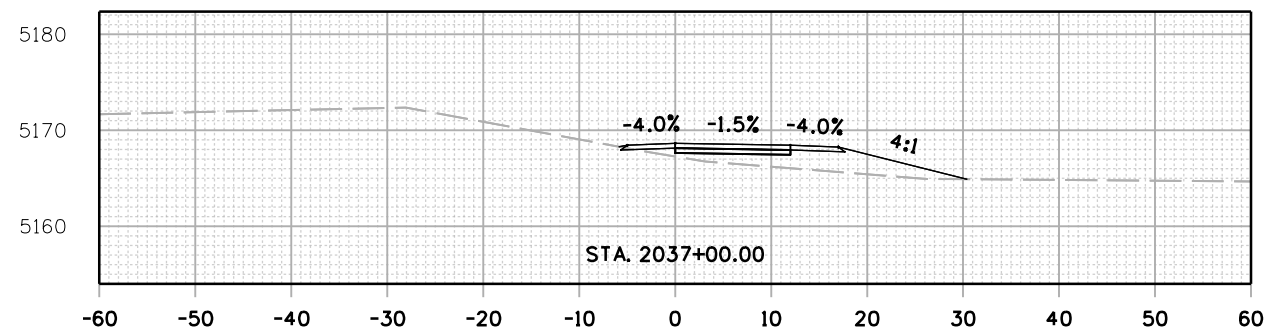
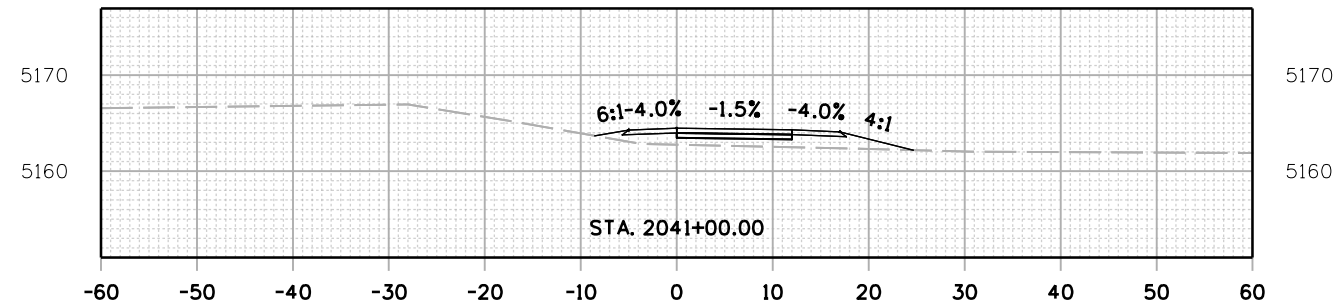
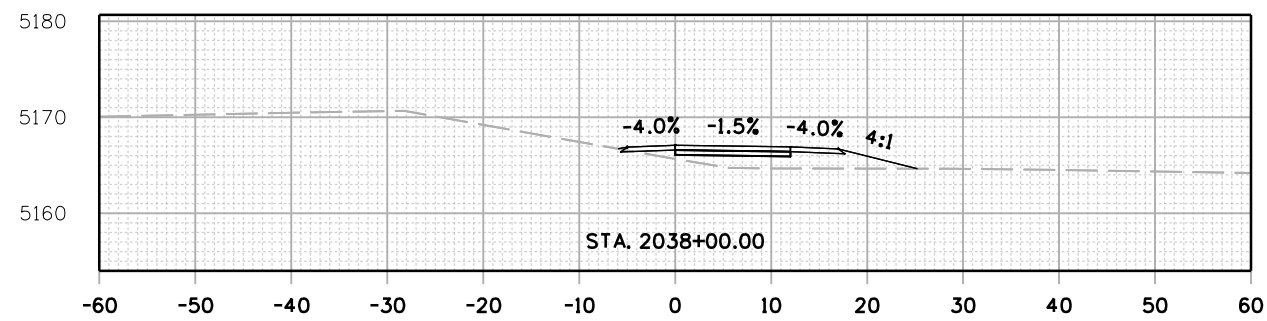
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 Unit Information

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| CD 119 BIKEWAY CROSS SECTIONS | | | | Project No./Code |
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| As Constructed | | | | |
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| Revised: | Designer: RML | Structure Numbers | | |
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| | Sheet Subset: XSEC | | Sheet Number 208 | |

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All seals for this set of drawings are applied to the cover page(s)

Print Date: 28-JUN-2022
 File Name: 21015_RD_SHEET_119BW(SEG2)_XSEC.dgn
 Horiz. Scale: Vert. Scale: As Noted
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| Sheet Revisions | | |
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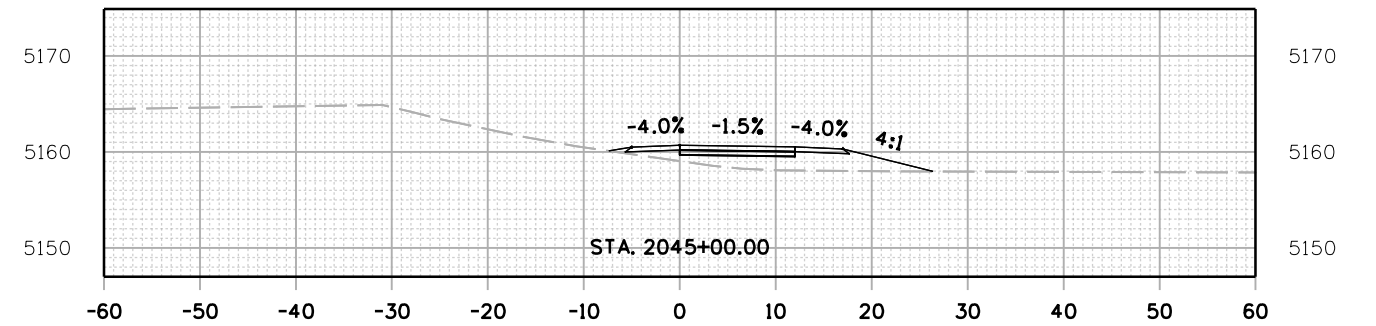
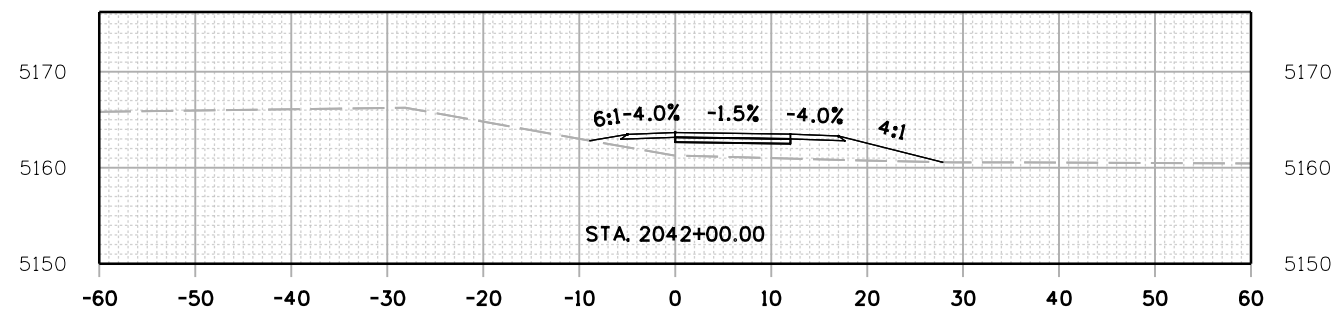
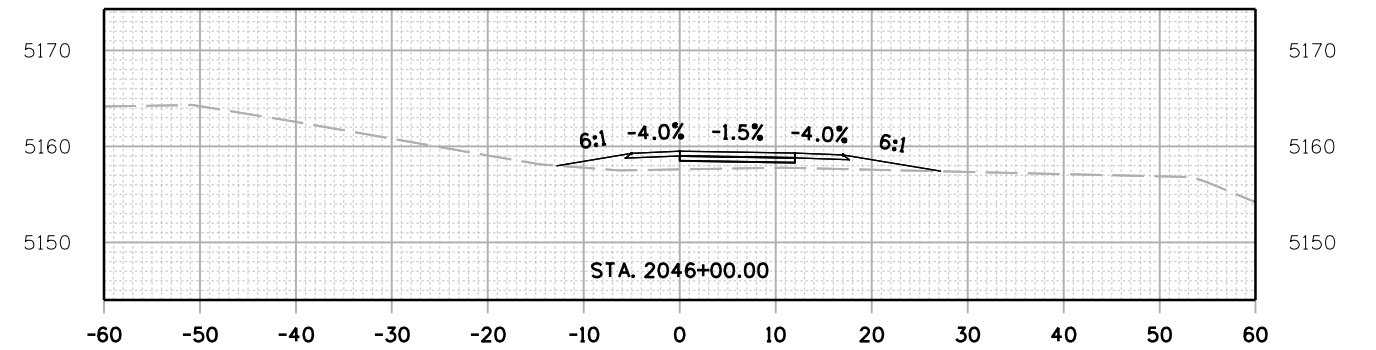
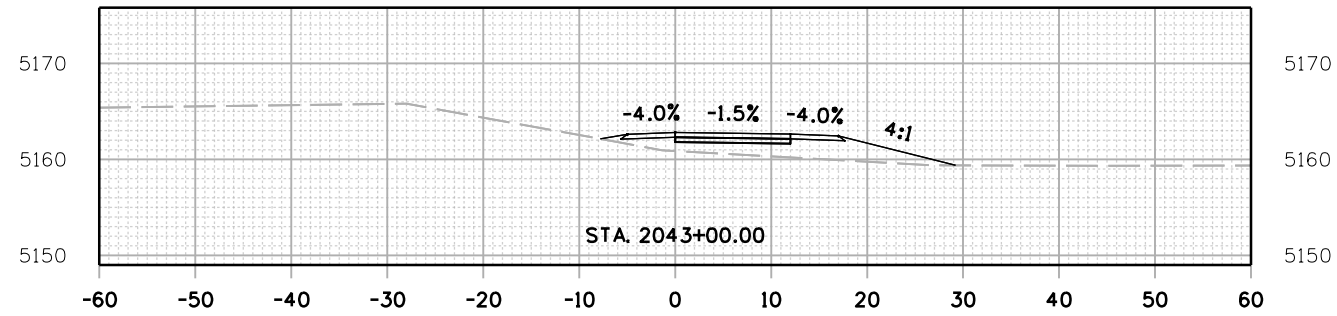
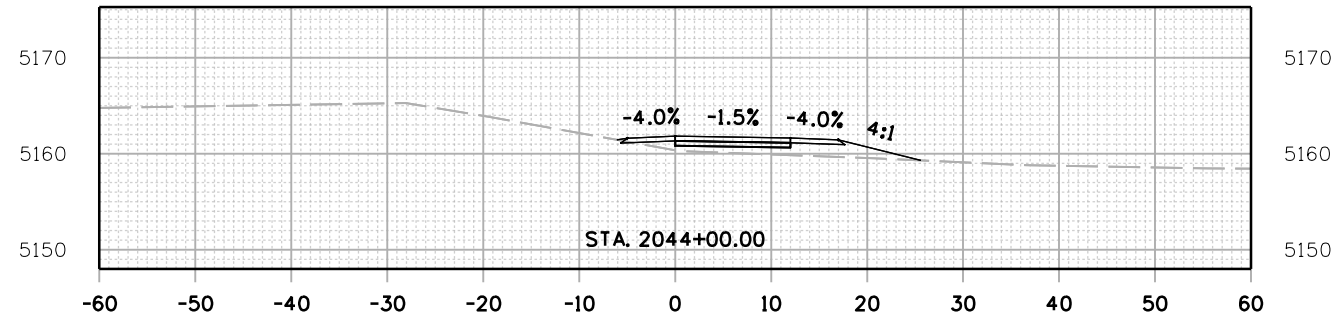


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| No Revisions: |
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| CD 119 BIKEWAY | | | |
| CROSS SECTIONS | | | |
| Designer: | RML | Structure | Numbers |
| Detailer: | PDP | Structure | Numbers |
| Sheet Subset: | XSEC | Subset Sheets: | 27 of 91 |

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| Project No./Code |
| Sheet Number 209 |

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All seals for this set of drawings are applied to the cover page(s)

Print Date: 28-JUN-2022
 File Name: 21015_RD_SHEET_119BW(SEG2)_XSEC.dgn
 Horiz. Scale: Vert. Scale: As Noted
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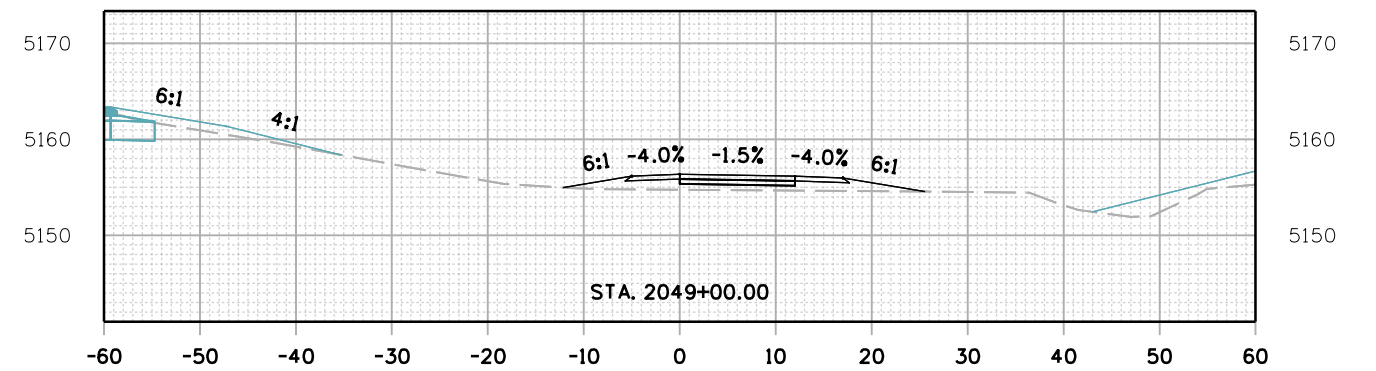
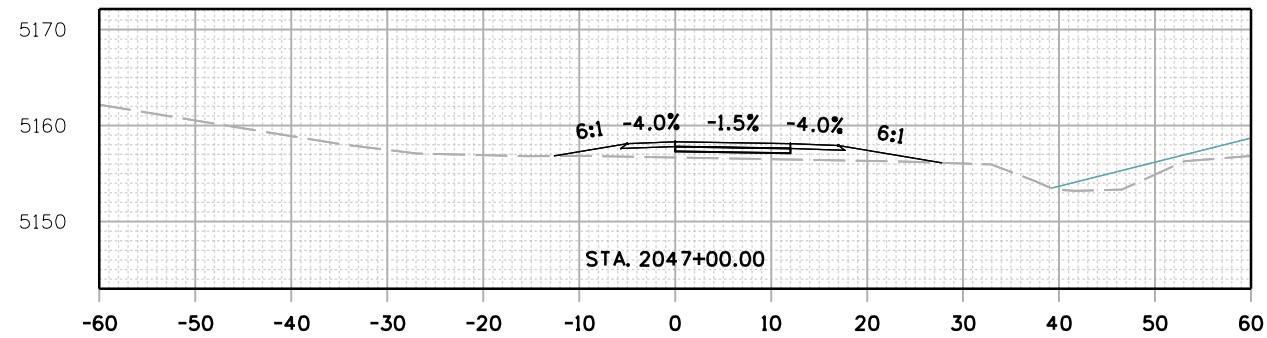
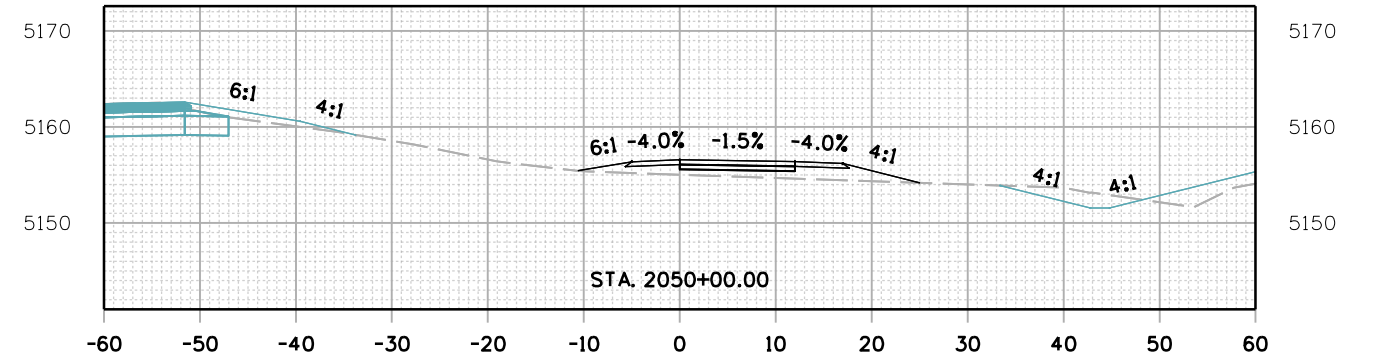
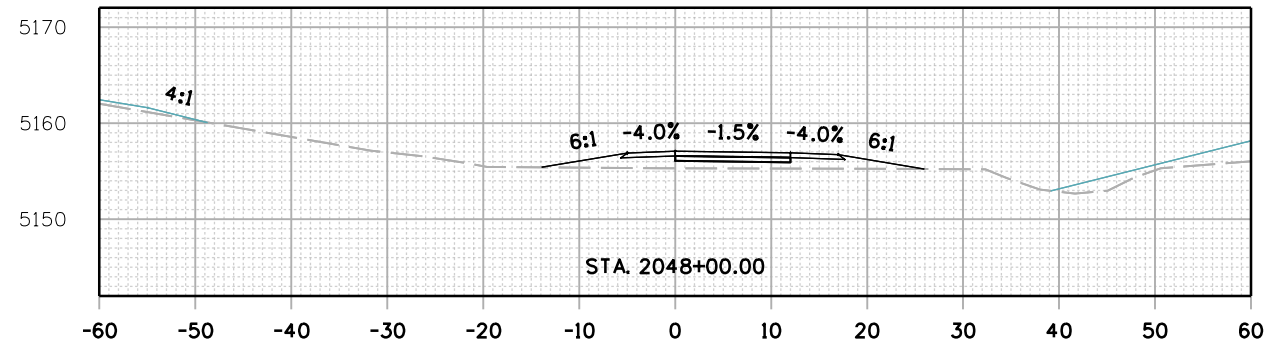


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| Revised: |
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| CD 119 BIKEWAY CROSS SECTIONS | | | |
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| Designer: | RML | Structure Numbers | |
| Detailer: | PDP | | |
| Sheet Subset: | XSEC | Subset Sheets: | 28 of 91 |

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| Project No./Code |
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| Sheet Number 210 |

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All seals for this set of drawings are applied to the cover page(s)

Print Date: 28-JUN-2022
 File Name: 21015_RD_SHEET_119BW(SEG2)_XSEC.dgn
 Horiz. Scale: Vert. Scale: As Noted
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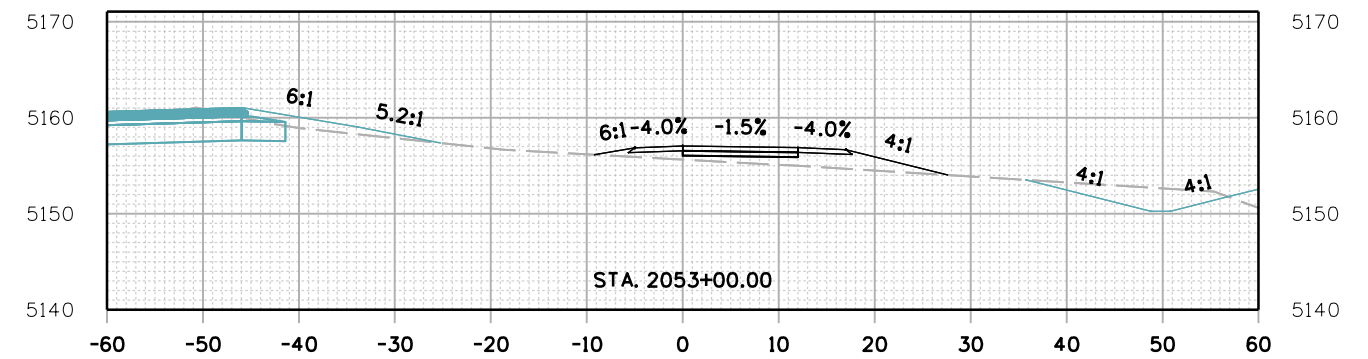
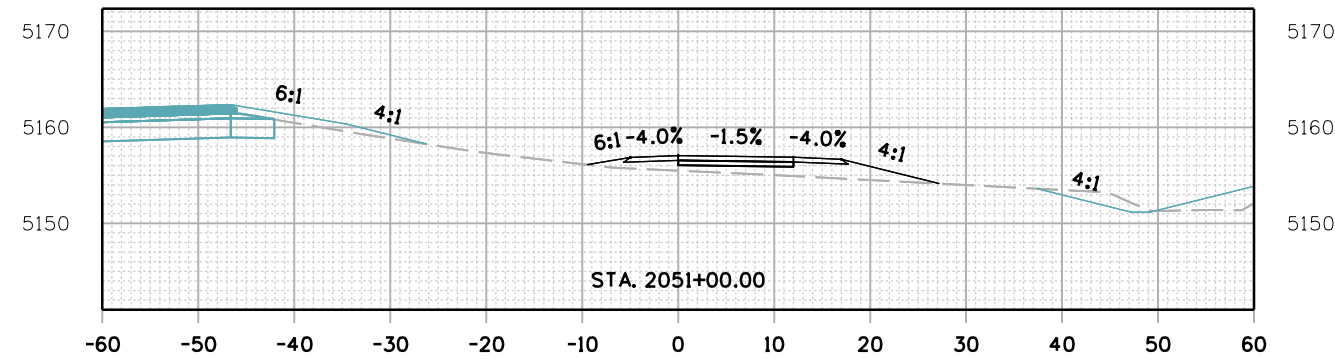
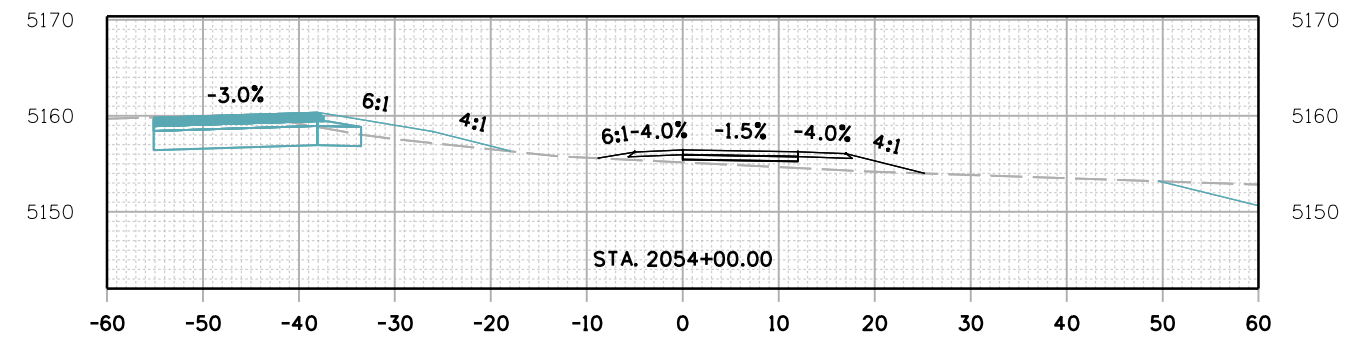
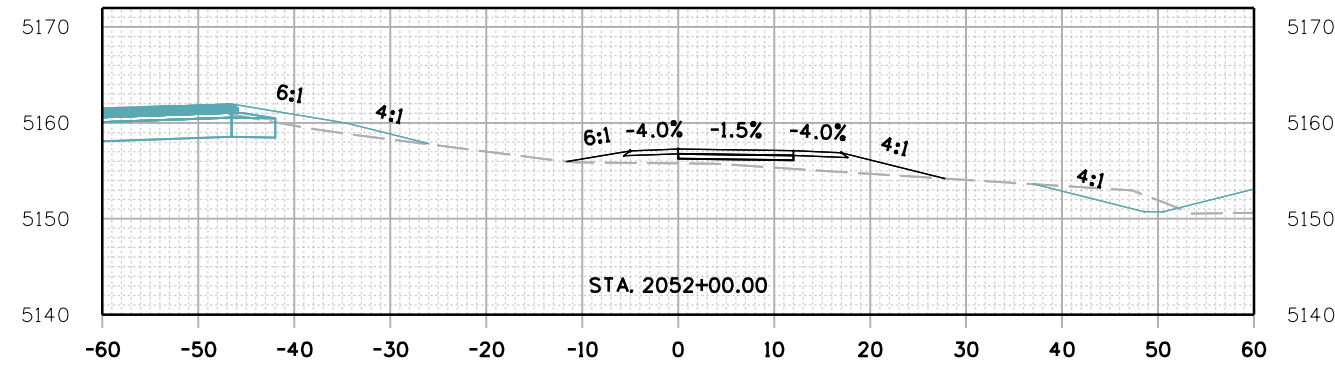


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| CD 119 BIKEWAY | | | |
| CROSS SECTIONS | | | |
| Designer: | RML | Structure | |
| Detailer: | PDP | Numbers | |
| Sheet Subset: | XSEC | Subset Sheets: | 29 of 91 |

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| Project No./Code |
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| Sheet Number 211 |

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All seals for this set of drawings are applied to the cover page(s)

Print Date: 28-JUN-2022
 File Name: 21015_RD_SHEET_119BW(SEG2)_XSEC.dgn
 Horiz. Scale: Vert. Scale: As Noted
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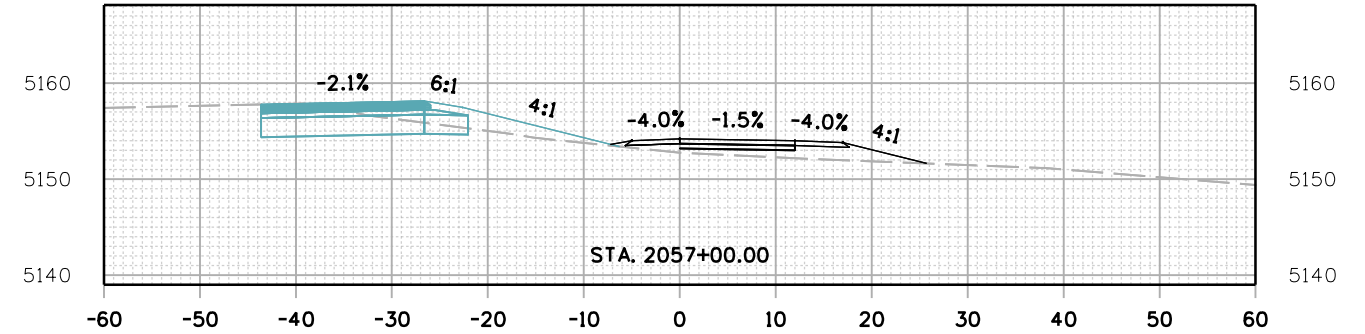
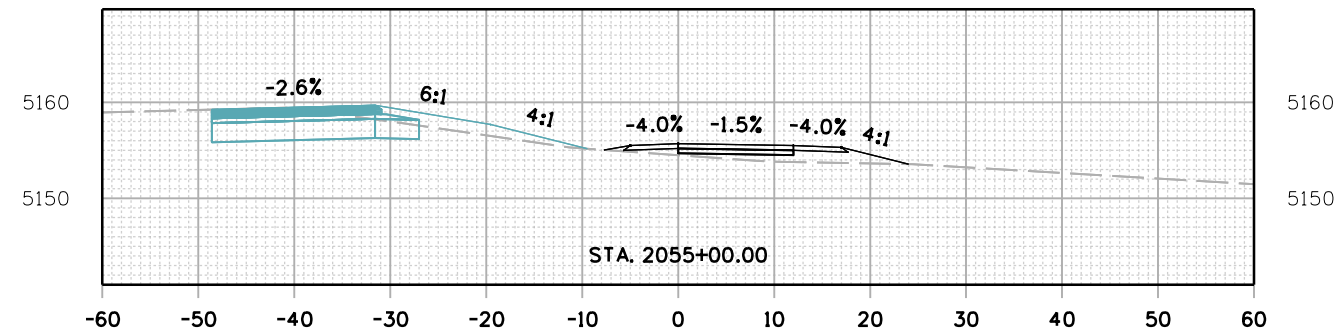
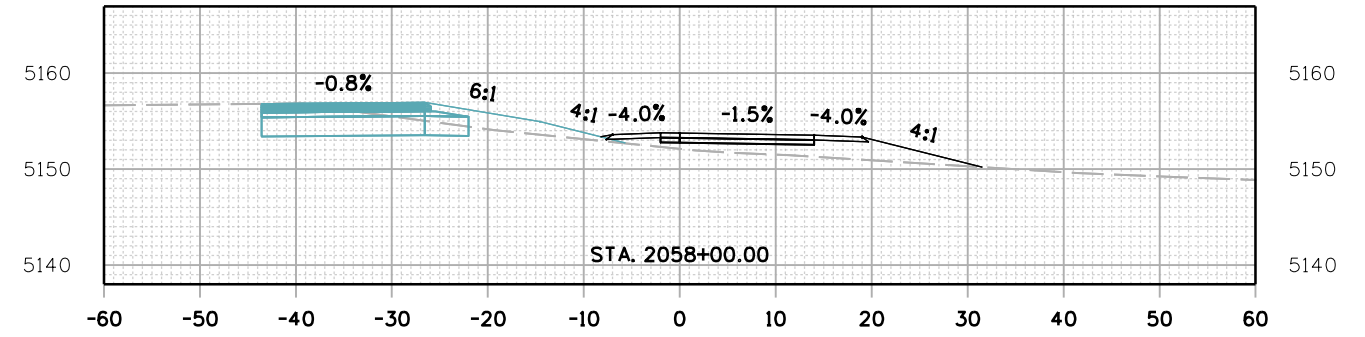
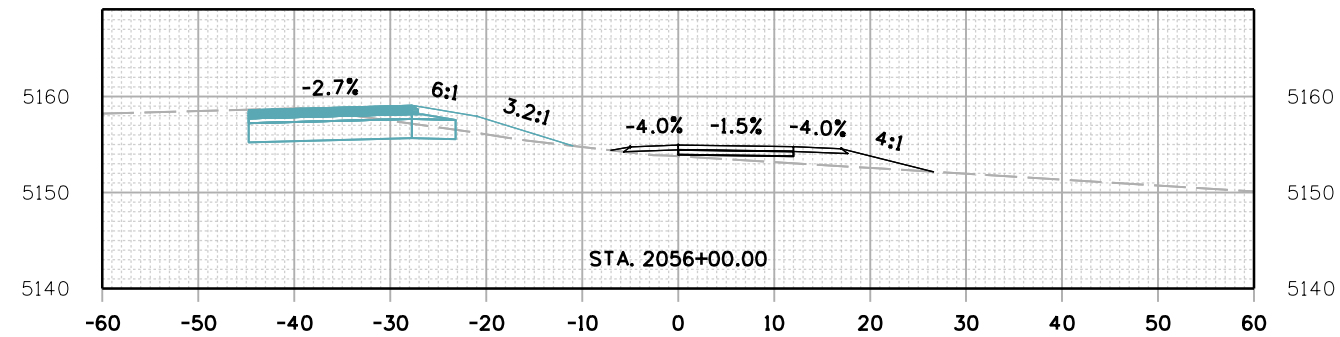
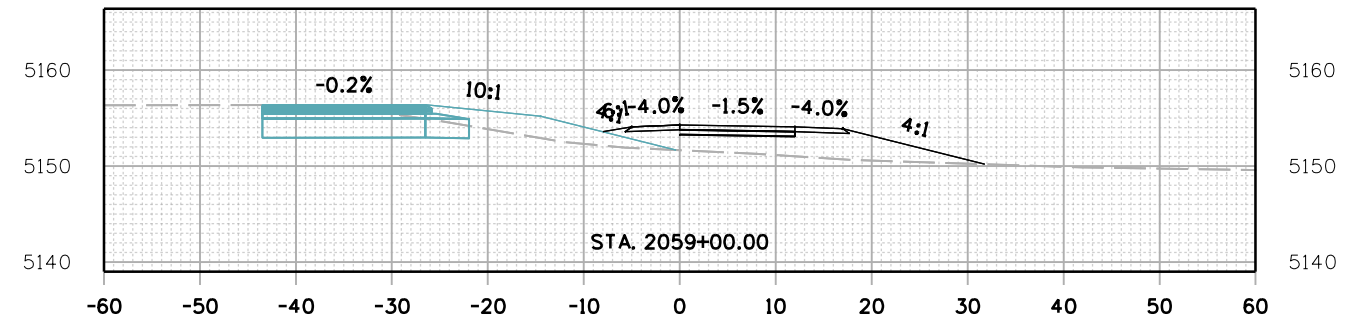


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| CD 119 BIKEWAY CROSS SECTIONS | | | |
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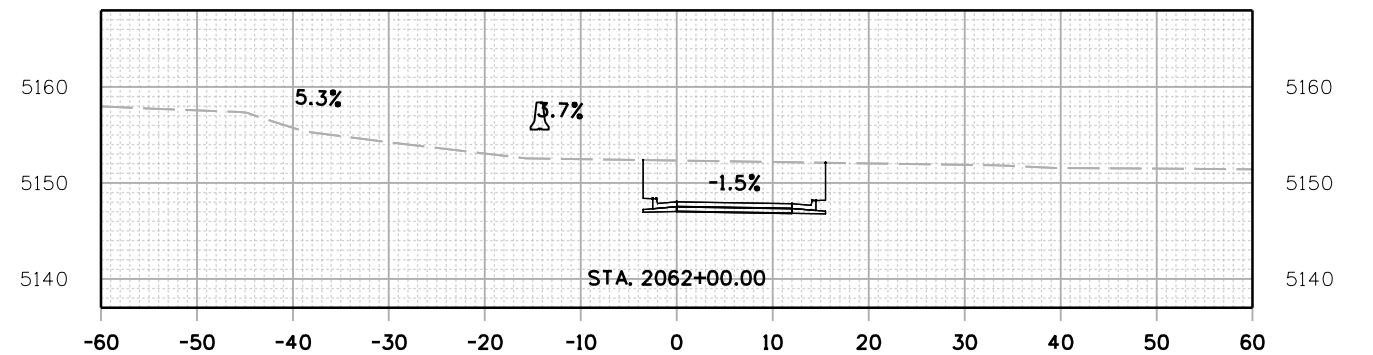
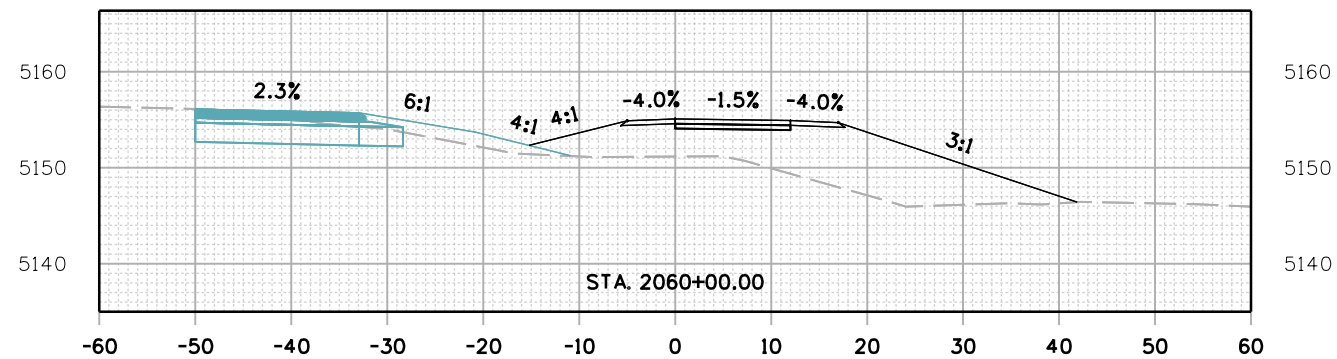
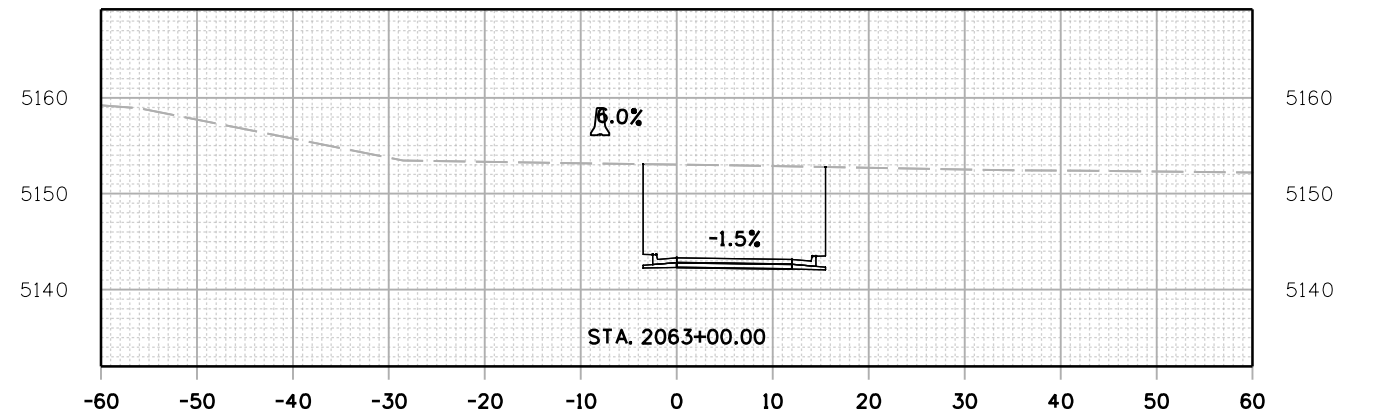
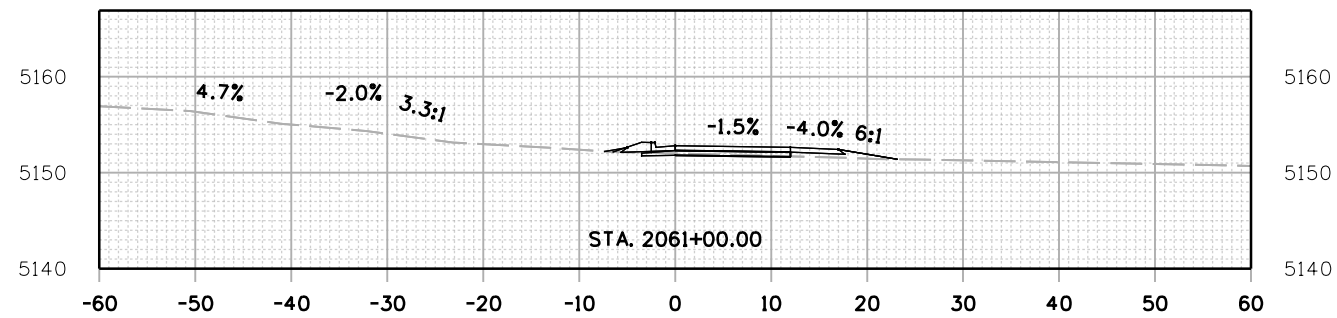
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| Project No./Code |
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| Sheet Number 212 |

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| All seals for this set of drawings are applied to the cover page(s) | Print Date: 28-JUN-2022 File Name: 21015_RD_SHEET_119BW(SEG2)_XSEC.dgn | Sheet Revisions | | | | As Constructed | | CD 119 BIKEWAY CROSS SECTIONS | | Project No./Code | |
| | Horiz. Scale: Vert. Scale: As Noted | Date: | Comments | Init. | | No Revisions: | | Designer: | RML | Structure Numbers | Sheet Number 213 |
| | Unit Information | Date: | Comments | Init. | | Revised: | | Detailer: | PDP | Subset Sheets: | |
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All seals for this set of drawings are applied to the cover page(s)

Print Date: 28-JUN-2022
 File Name: 21015_RD_SHEET_119BW(SEG2)_XSEC.dgn
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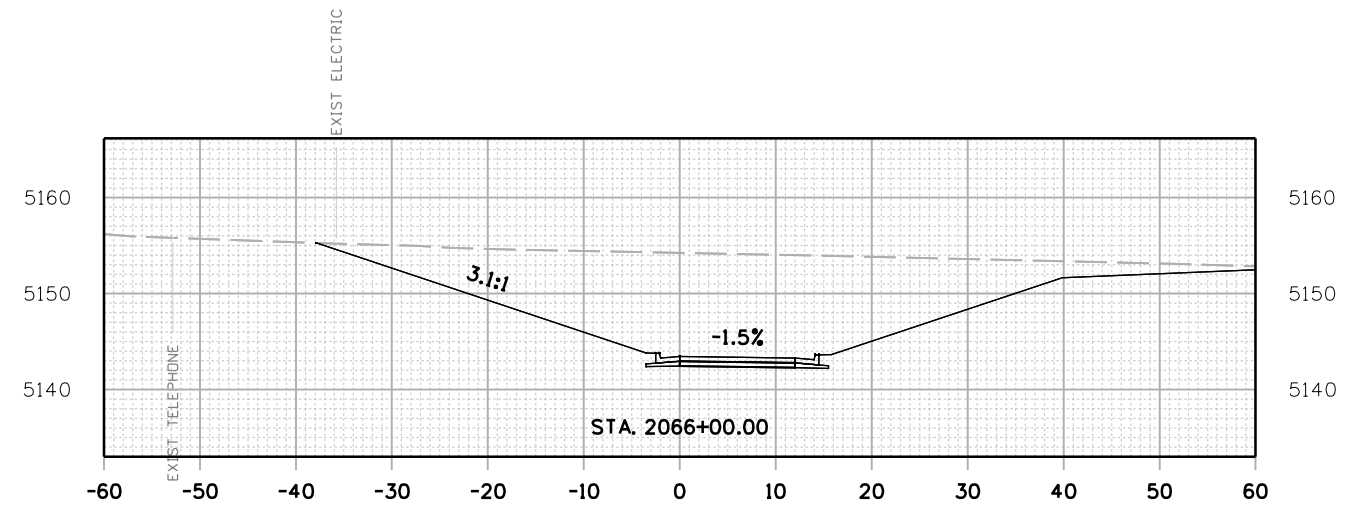
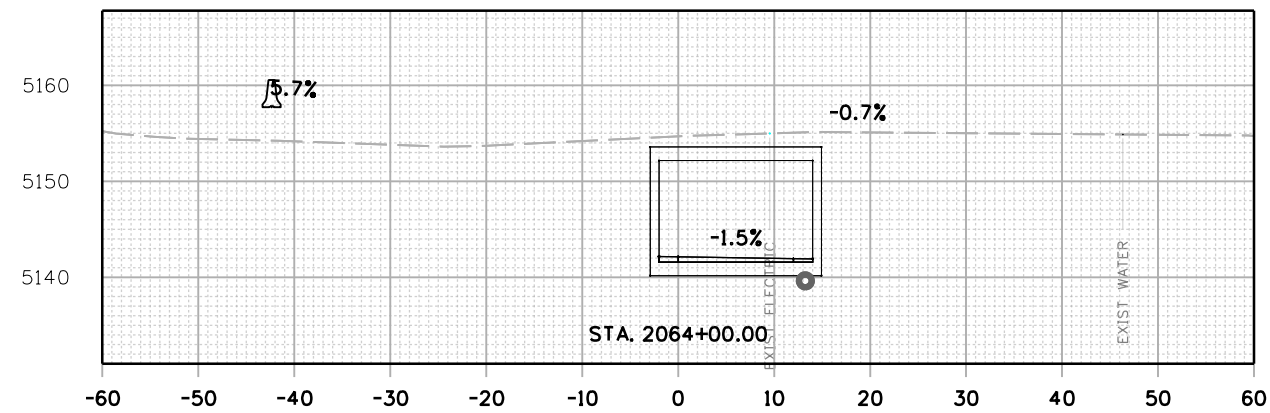
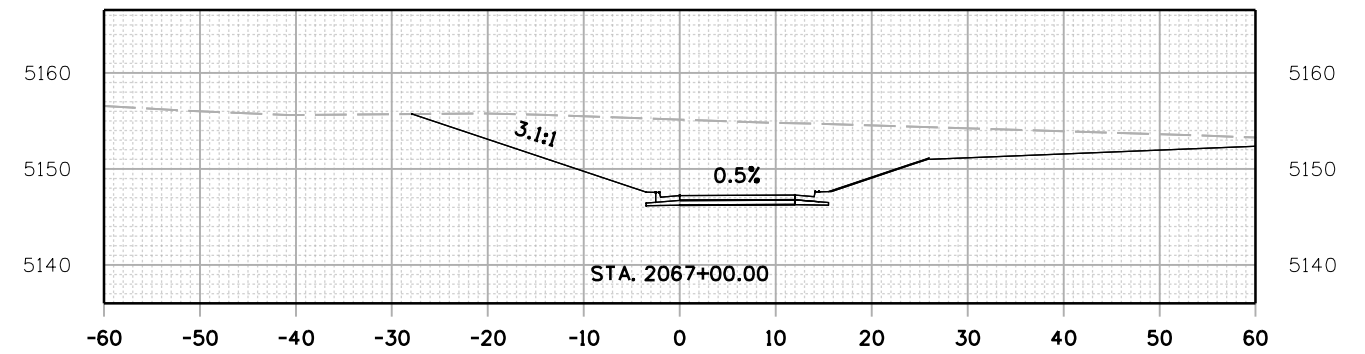
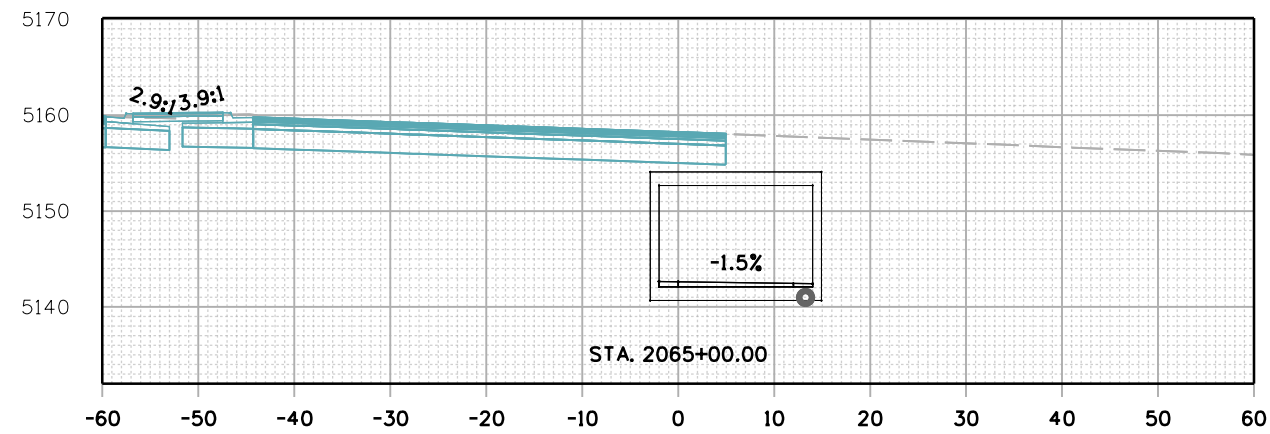


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| CD 119 BIKEWAY CROSS SECTIONS | | | |
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| Designer: | RML | Structure Numbers | |
| Detailer: | PDP | | |
| Sheet Subset: | XSEC | Subset Sheets: | 32 of 91 |

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| Project No./Code |
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| Sheet Number 214 |

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All seals for this set of drawings are applied to the cover page(s)

Print Date: 28-JUN-2022
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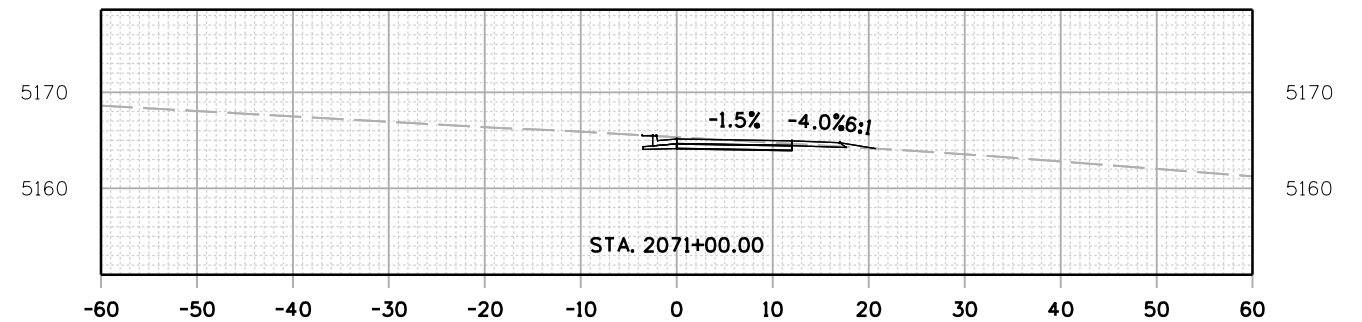
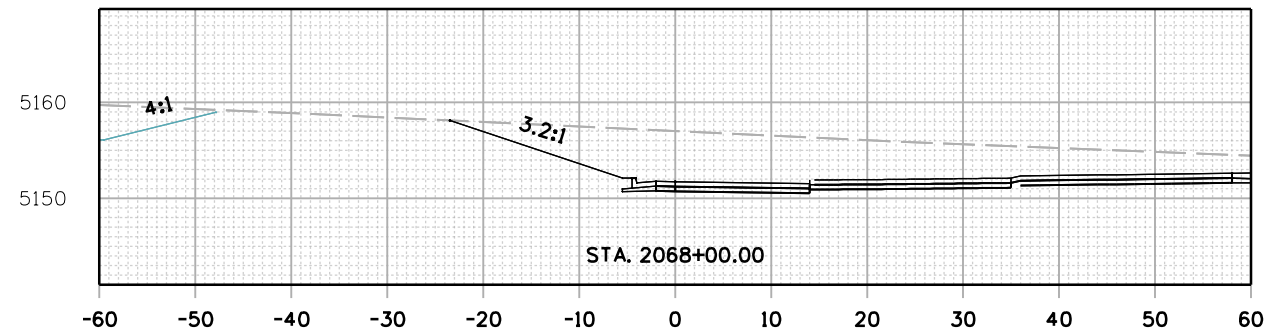
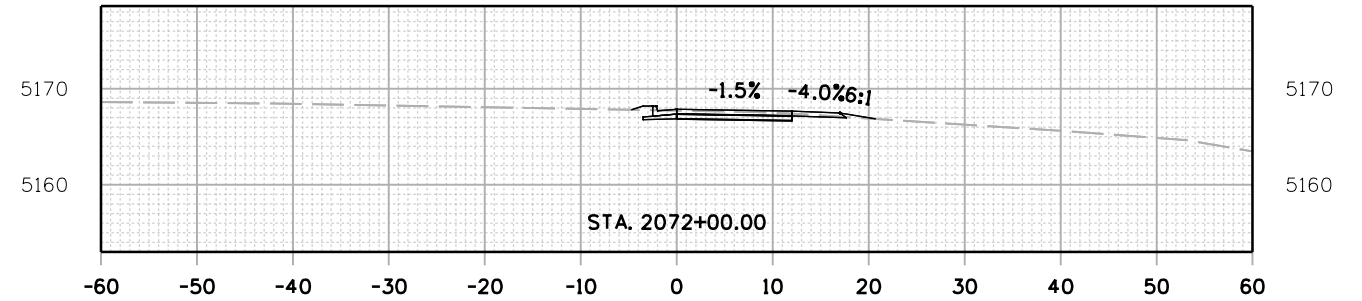
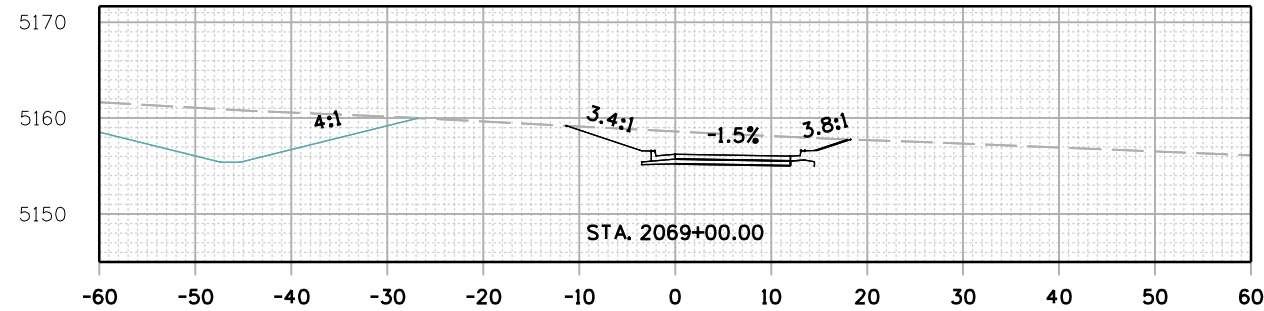
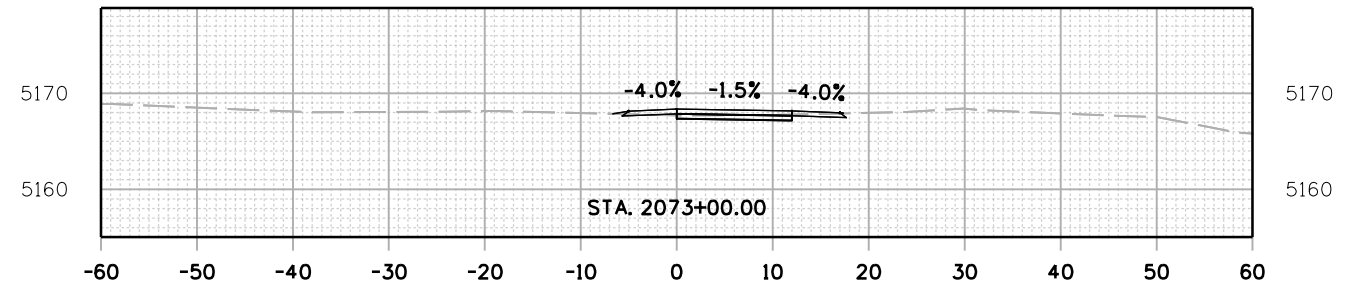
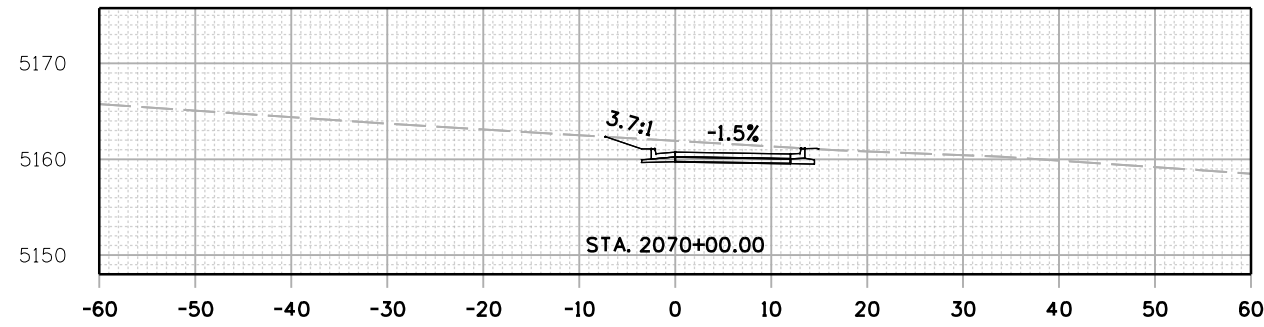


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| CD 119 BIKEWAY CROSS SECTIONS | | | |
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| Designer: | RML | Structure Numbers | |
| Detailer: | PDP | | |
| Sheet Subset: | XSEC | Subset Sheets: | 33 of 91 |

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| Project No./Code |
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| Sheet Number 215 |

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All seals for this set of drawings are applied to the cover page(s)

Print Date: 28-JUN-2022
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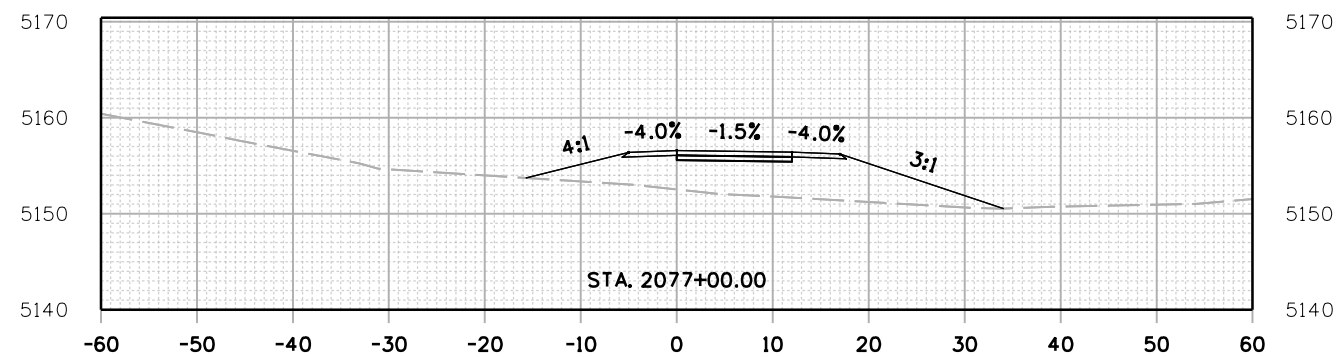
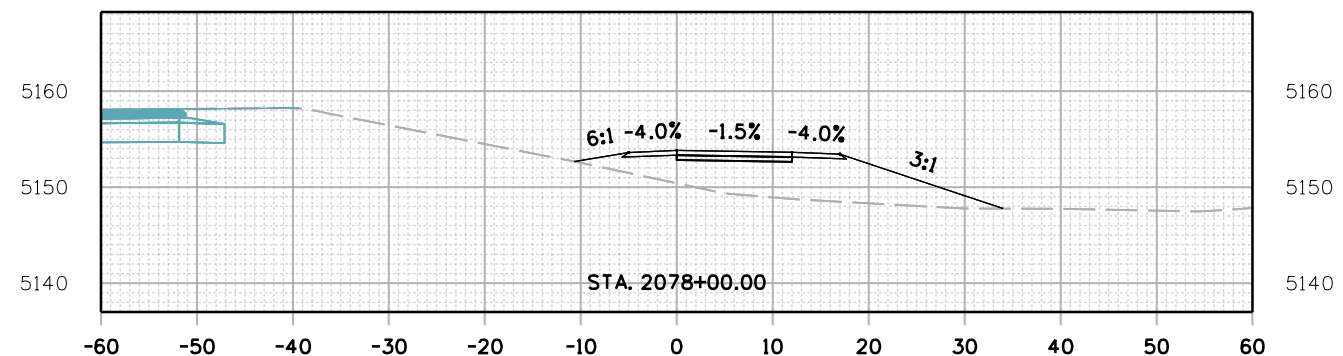
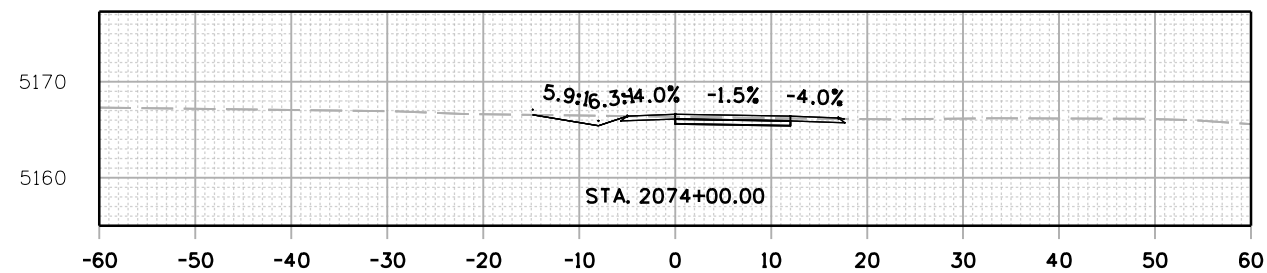
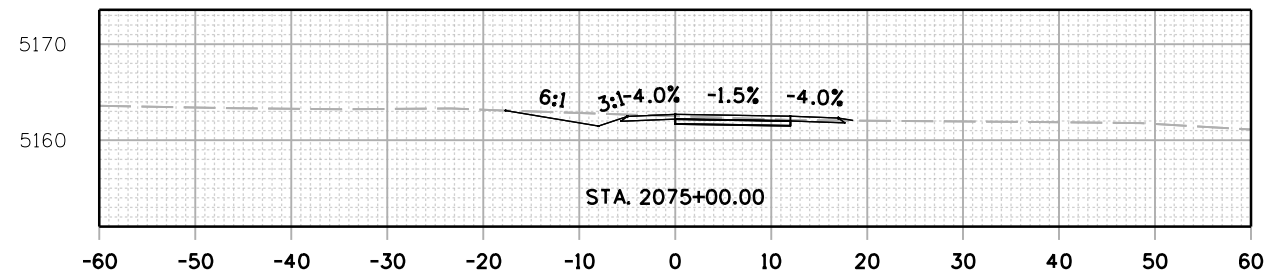
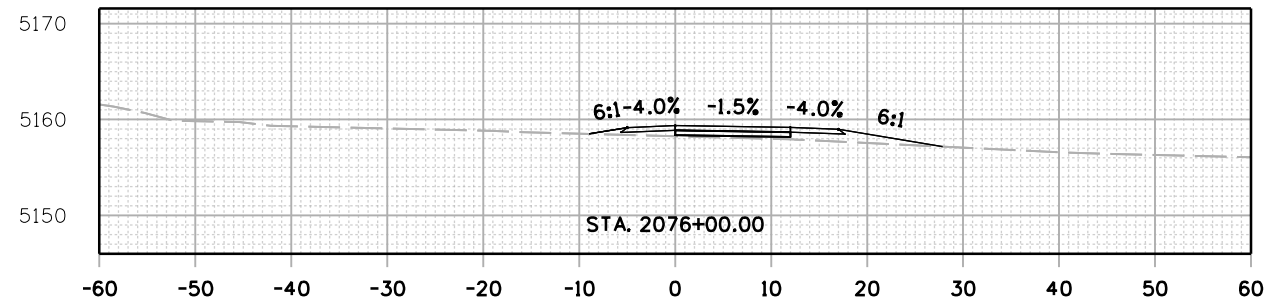


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| CD 119 BIKEWAY CROSS SECTIONS | | | |
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| Designer: | RML | Structure | Numbers |
| Detailer: | PDP | Subset Sheets: | 34 of 91 |
| Sheet Subset: | XSEC | | |

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| Project No./Code |
| Sheet Number 216 |

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All seals for this set of drawings are applied to the cover page(s)

Print Date: 28-JUN-2022
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 Horiz. Scale: Vert. Scale: As Noted
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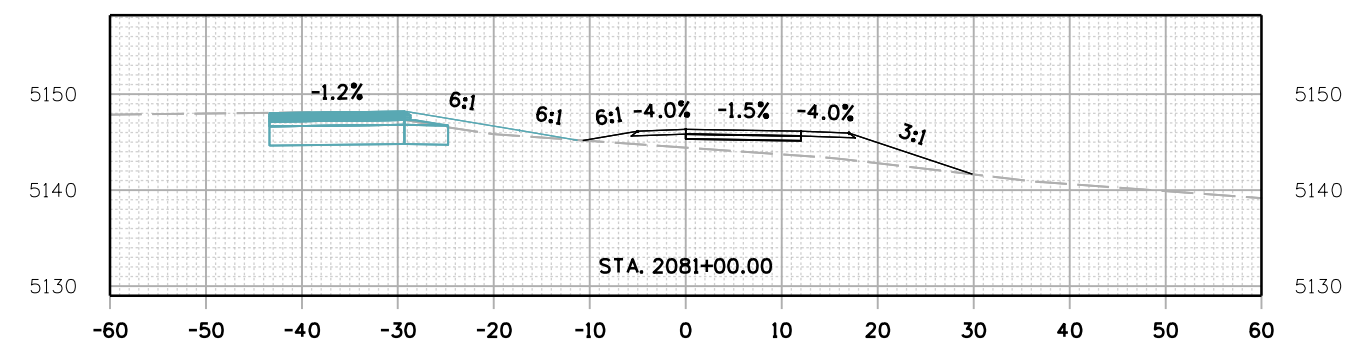
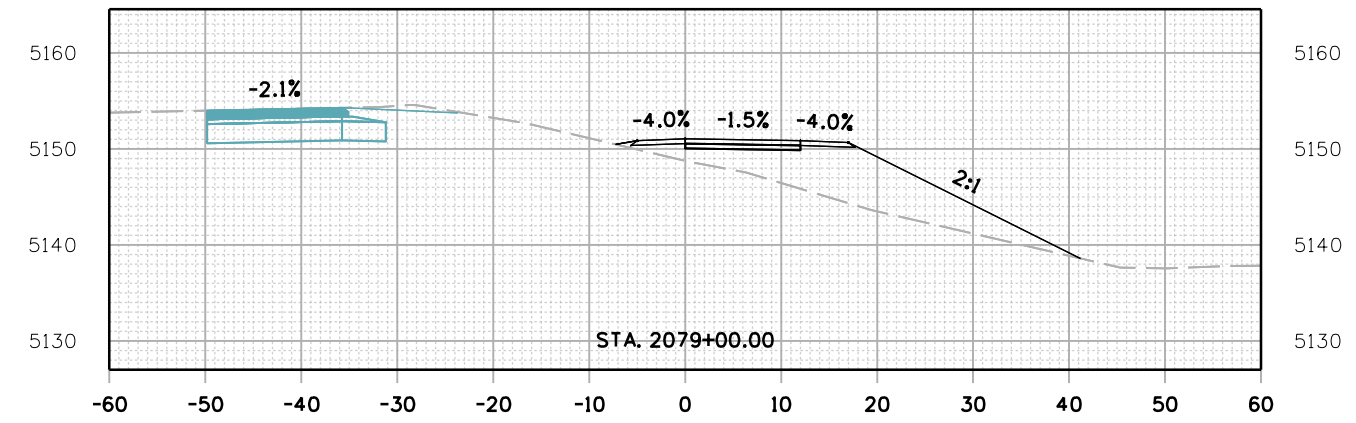
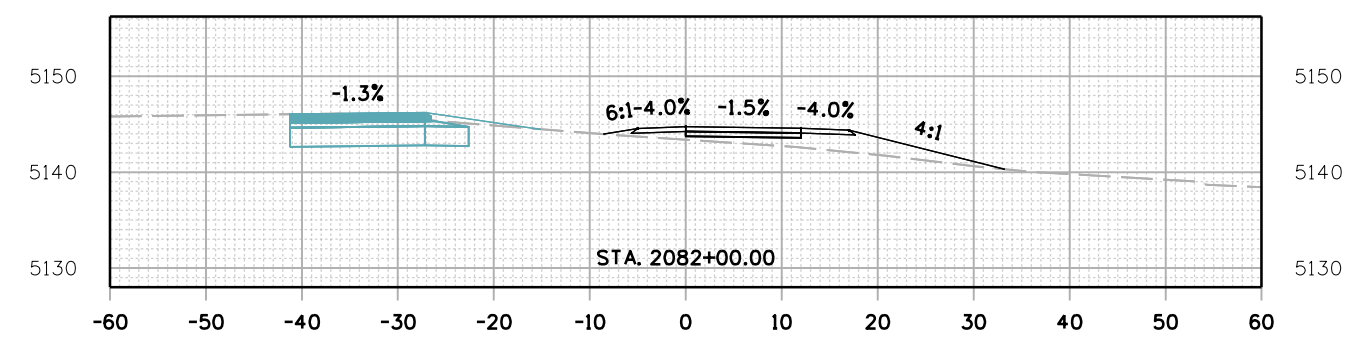
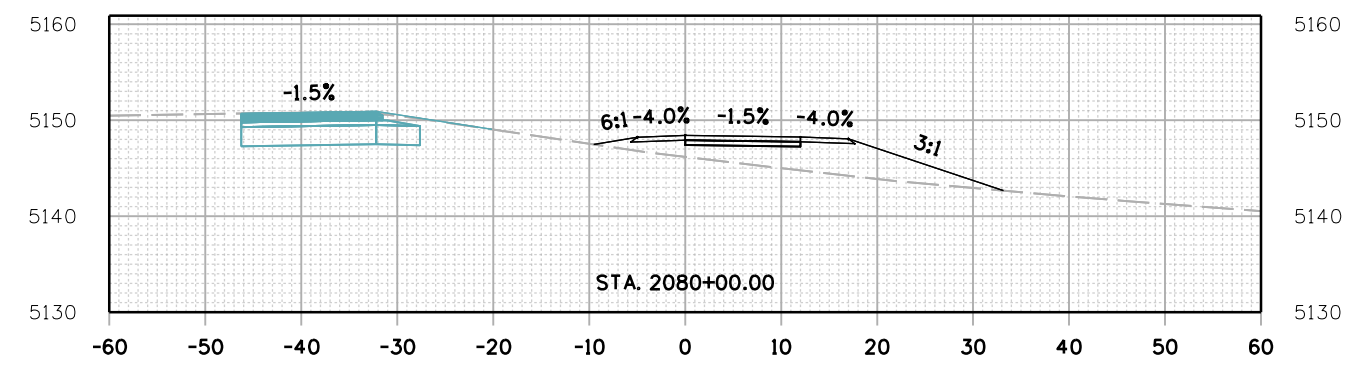
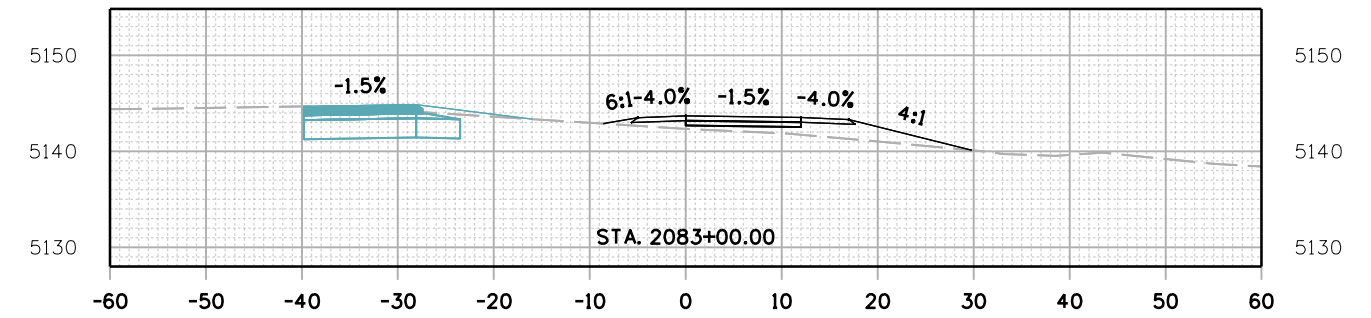


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| As Constructed |
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| Revised: |
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| CD 119 BIKEWAY CROSS SECTIONS | | | |
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| Detailer: | PDP | | |
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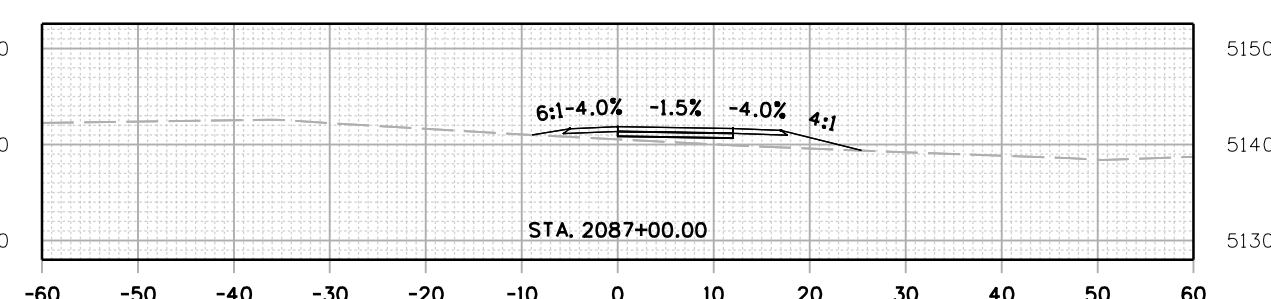
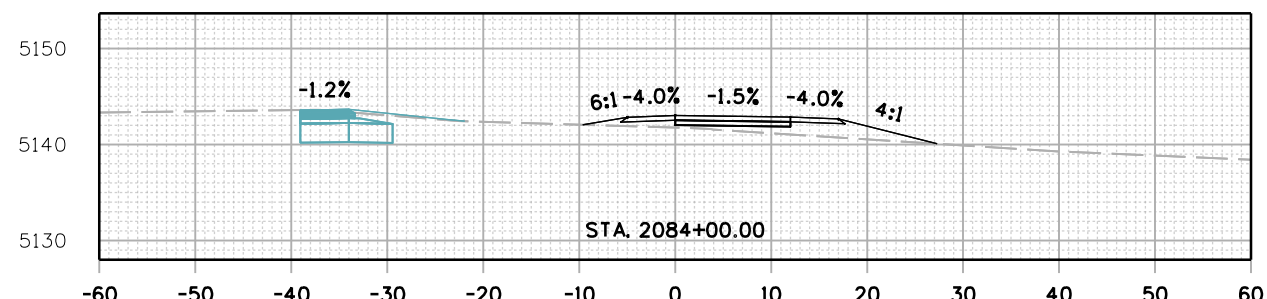
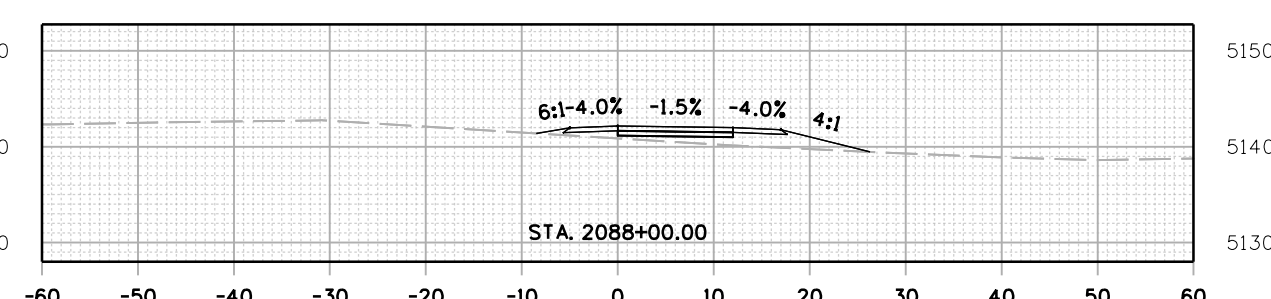
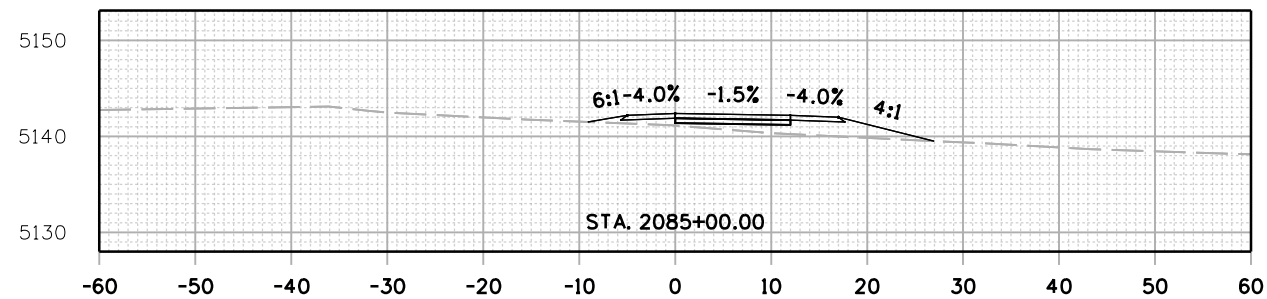
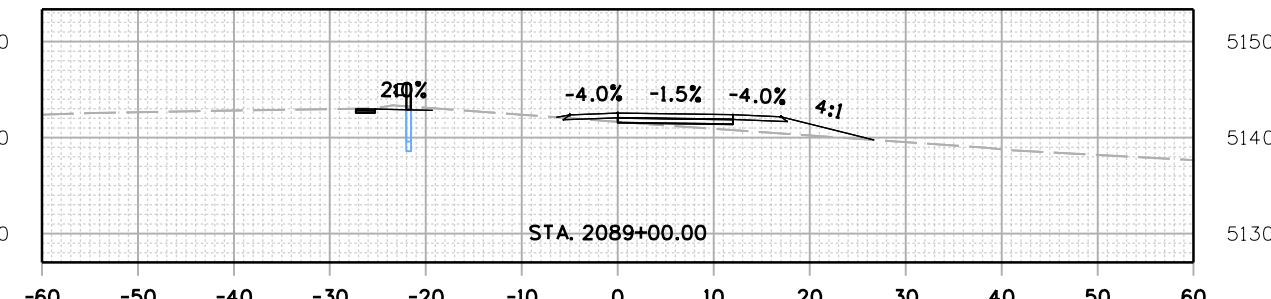
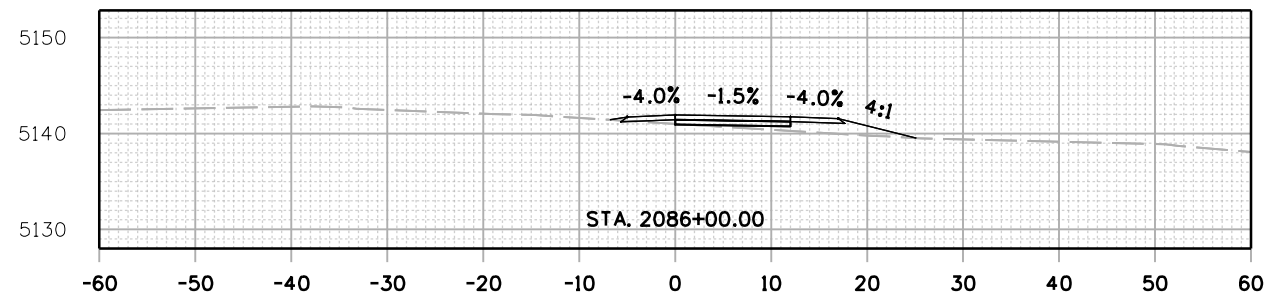
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| All seals for this set of drawings are applied to the cover page(s) | Print Date: 28-JUN-2022 | Sheet Revisions | | | | As Constructed | | CD 119 BIKEWAY | | Project No./Code |
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| | Horiz. Scale: Vert. Scale: As Noted | | | | | Revised: | Designer: RML | Structure Numbers | | |
| | Unit Information | | | | | Void: | Detailer: PDP | Subset Sheets: 36 of 91 | Sheet Number 218 | |
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All seals for this set of drawings are applied to the cover page(s)

Print Date: 28-JUN-2022
 File Name: 21015_RD_SHEET_119BW(SEG2)_XSEC.dgn
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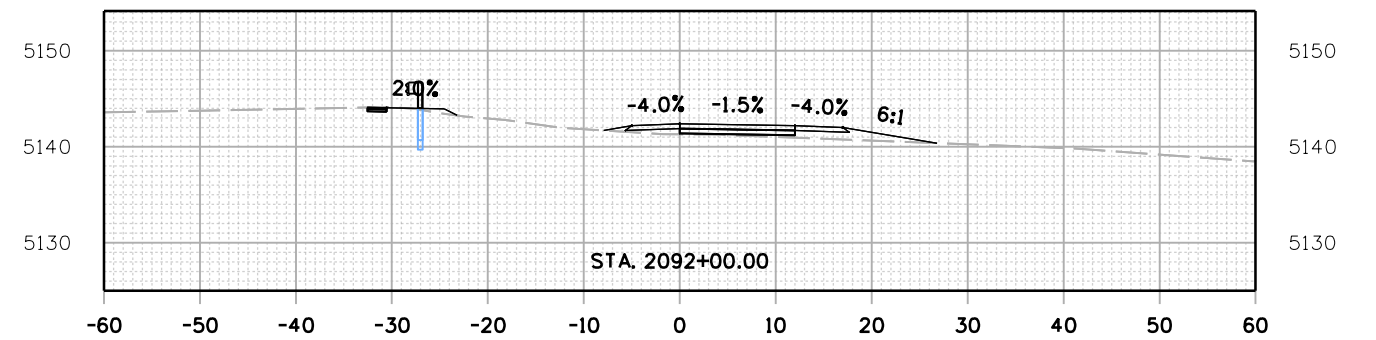
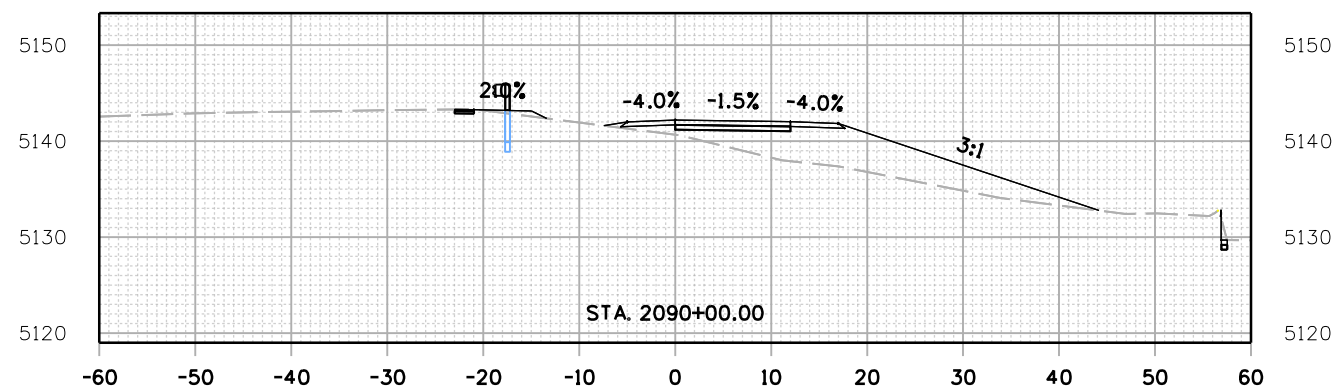
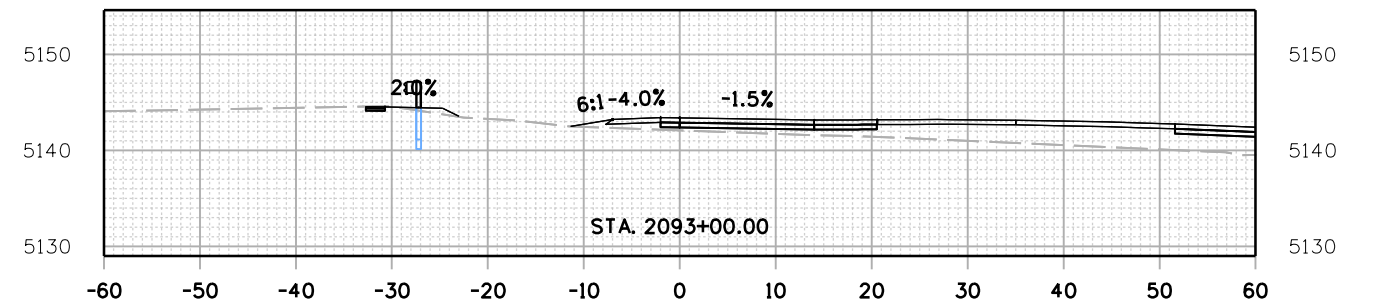
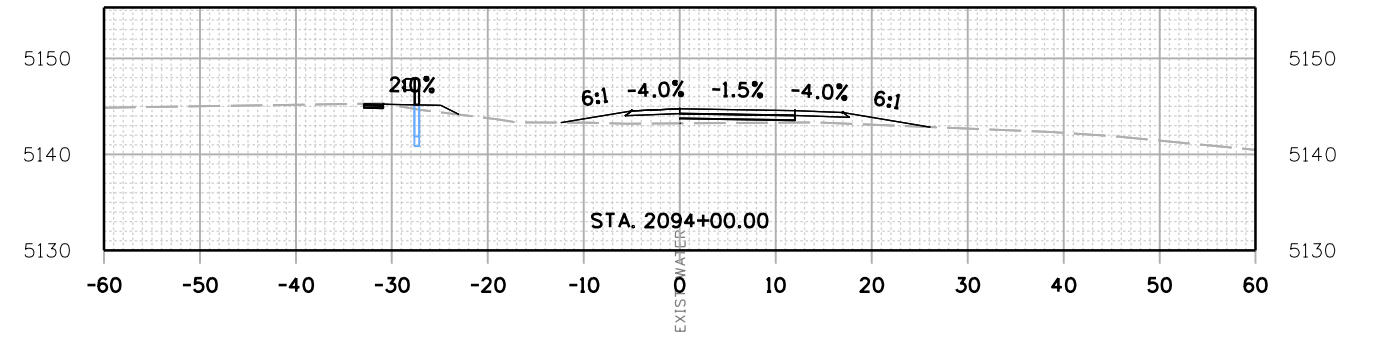
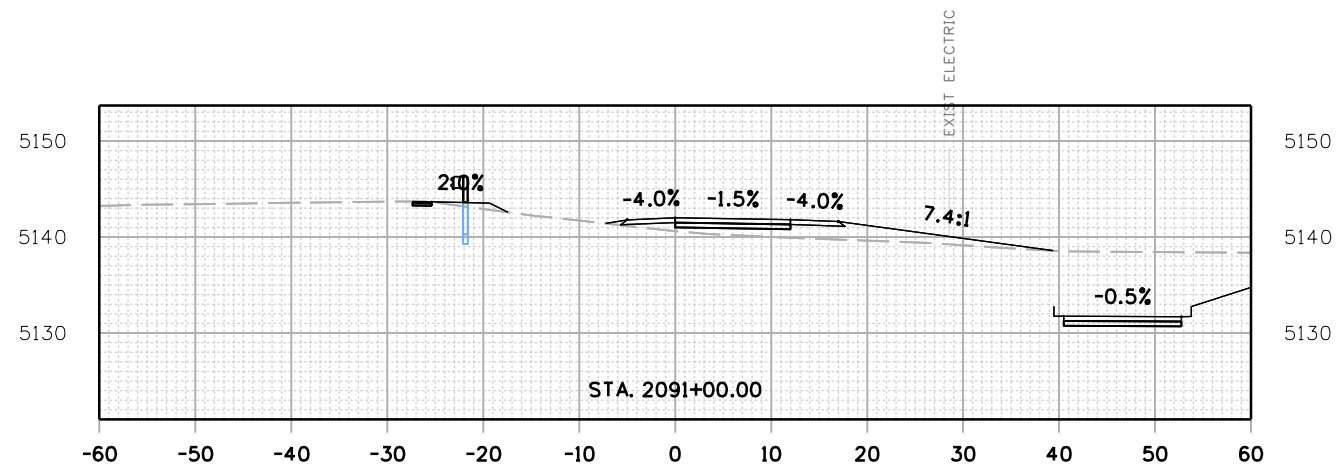


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| Void: |

| CD 119 BIKEWAY CROSS SECTIONS | | | |
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| Designer: | RML | Structure | Numbers |
| Detailer: | PDP | Subset Sheets: | 37 of 91 |
| Sheet Subset: | XSEC | | |

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| Project No./Code |
| Sheet Number 219 |

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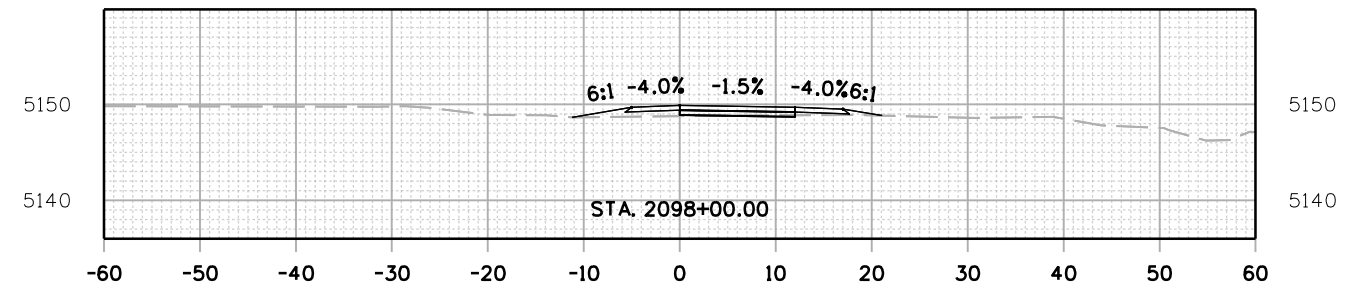
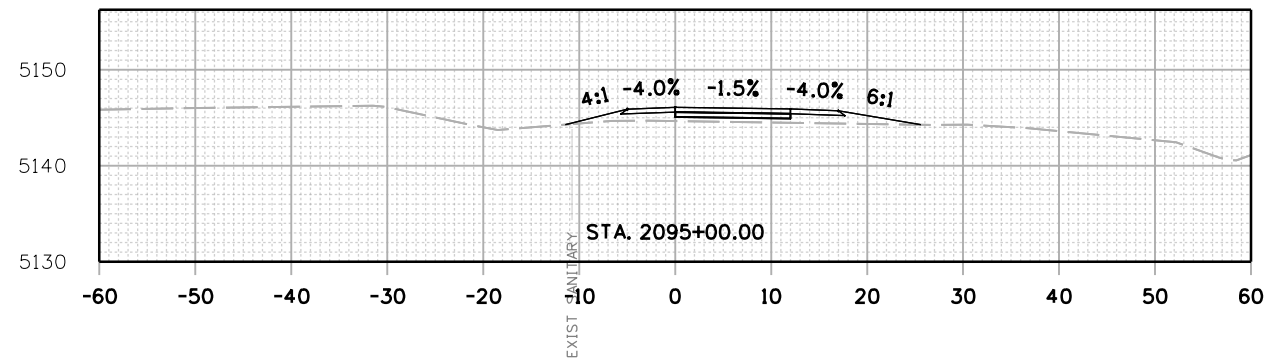
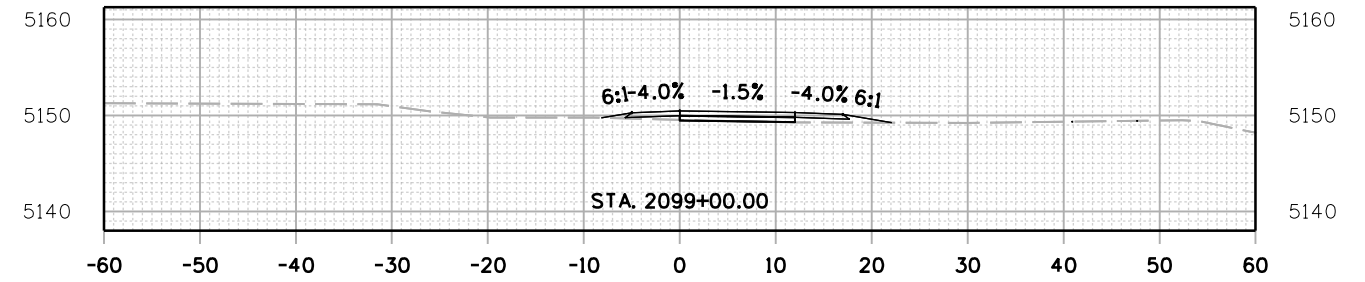
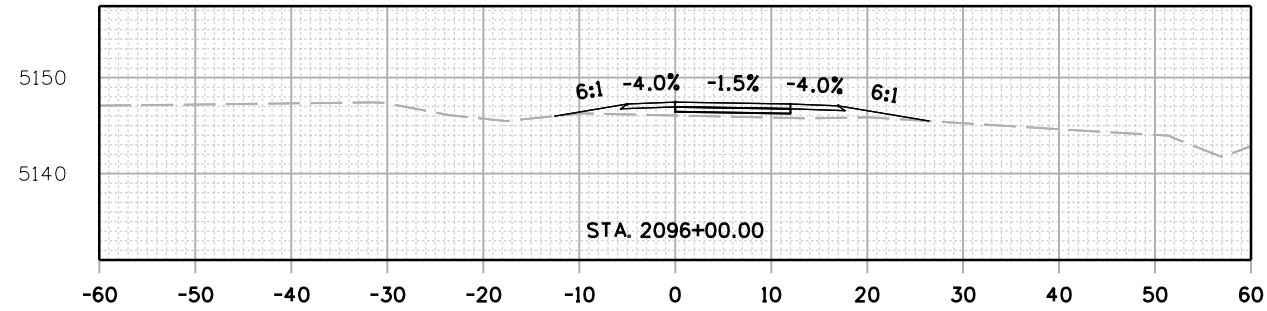
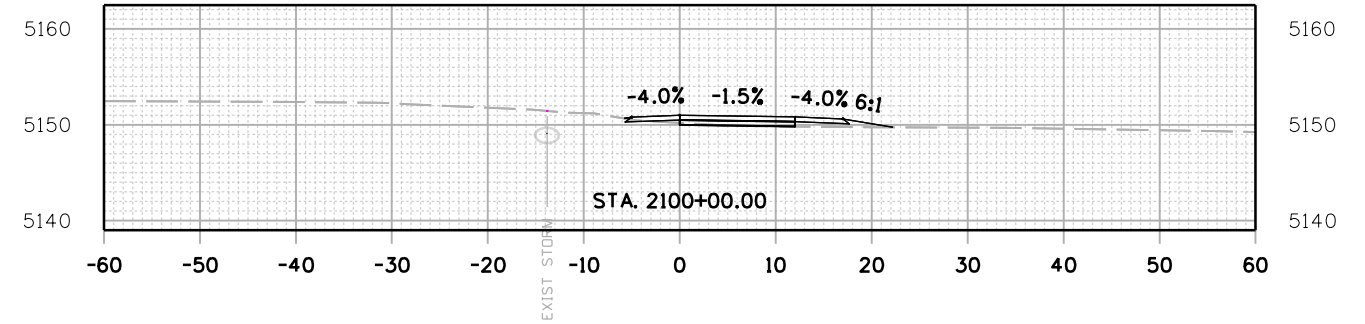
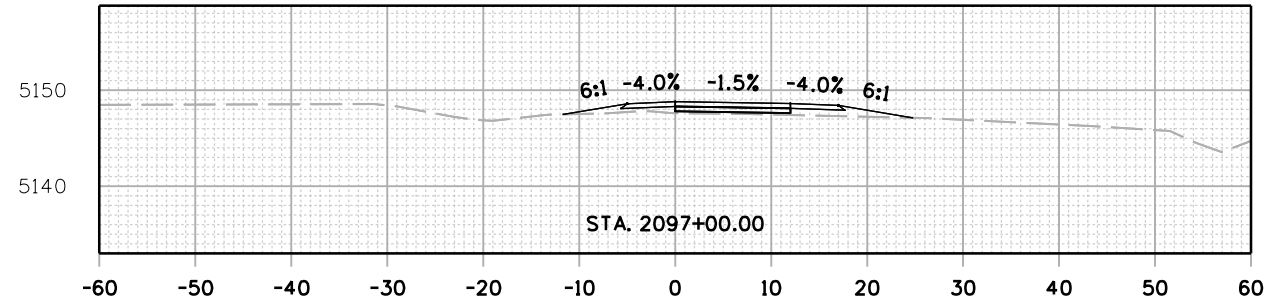
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| As Constructed | | CD 119 BIKEWAY CROSS SECTIONS | | | Project No./Code |
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| No Revisions: | | Designer: | RML | Structure Numbers | |
| Revised: | | Detailer: | PDP | | |
| Void: | | Sheet Subset: | XSEC | Subset Sheets: 38 of 91 | Sheet Number 220 |

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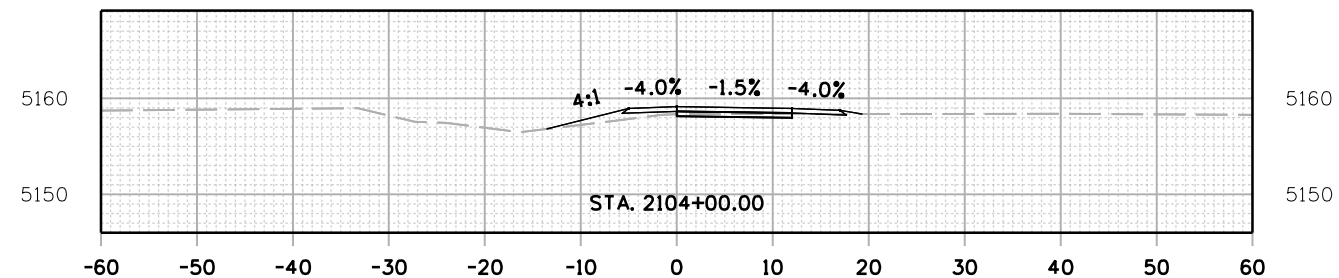
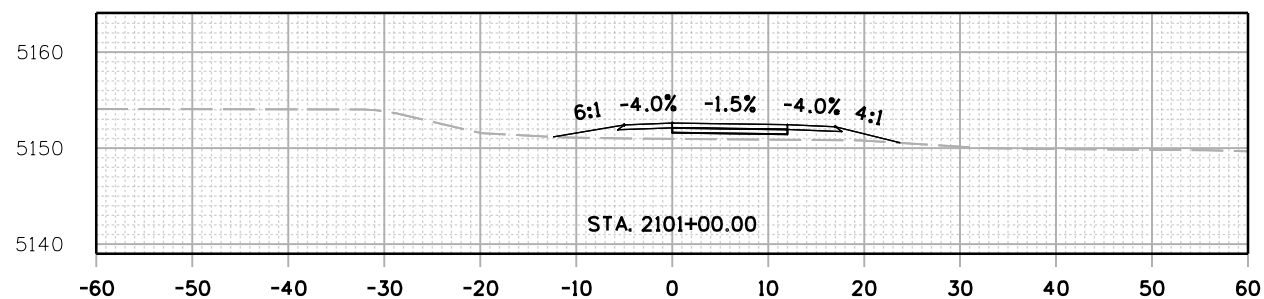
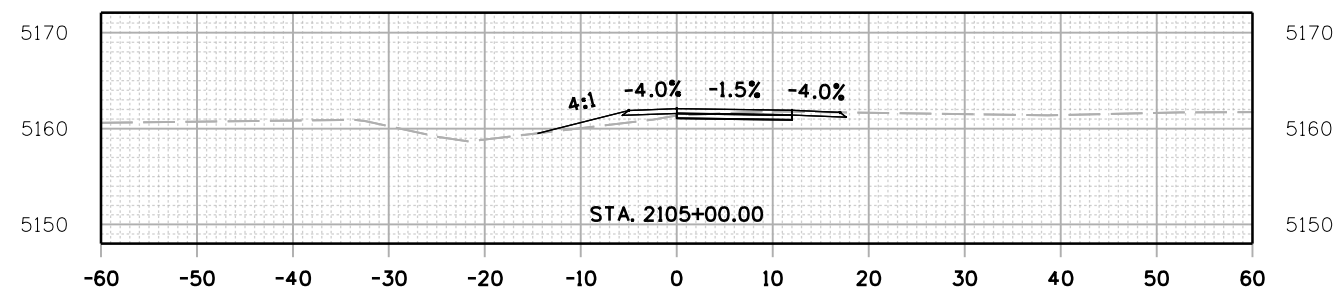
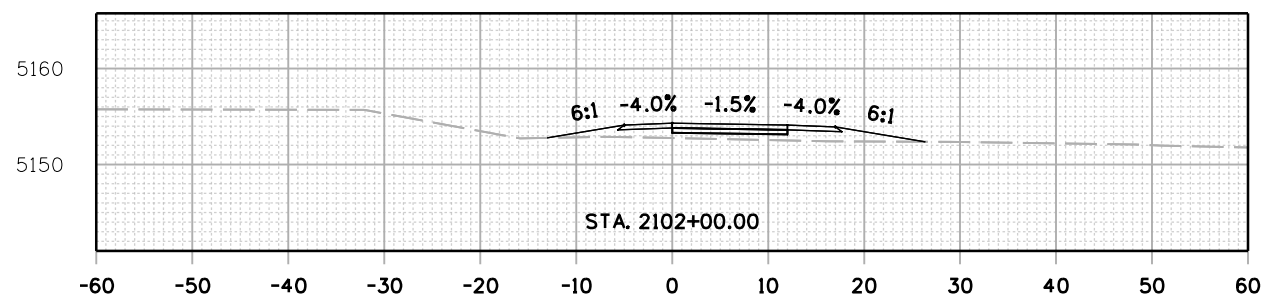
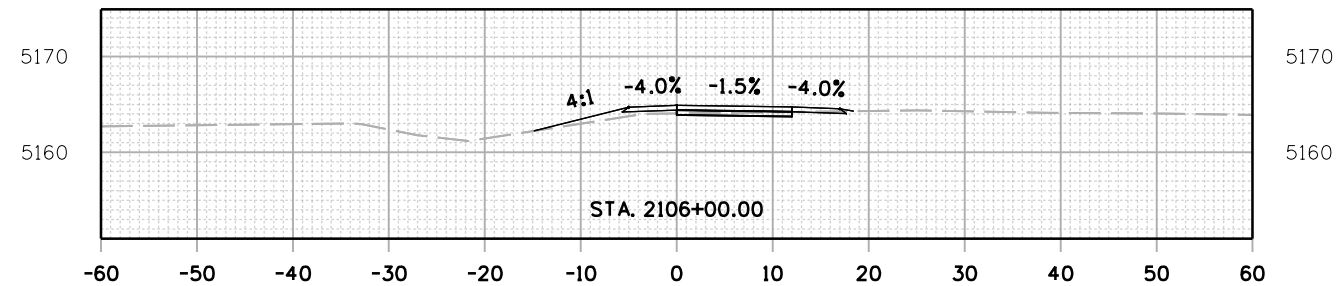
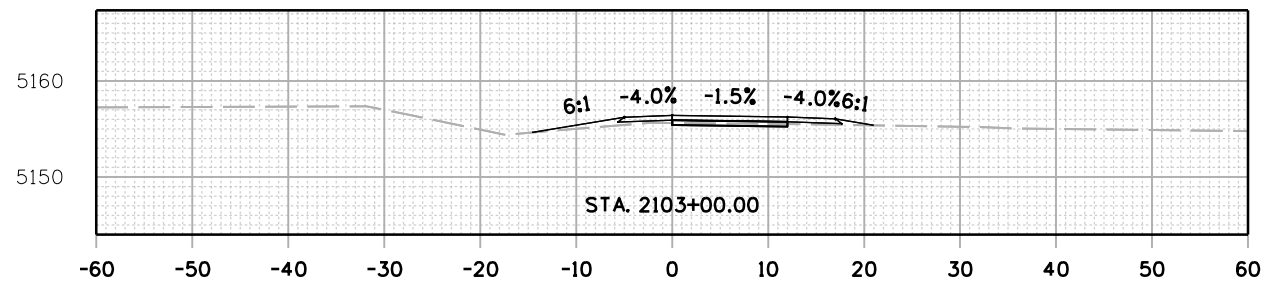
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| As Constructed | | CD 119 BIKEWAY CROSS SECTIONS | | | Project No./Code |
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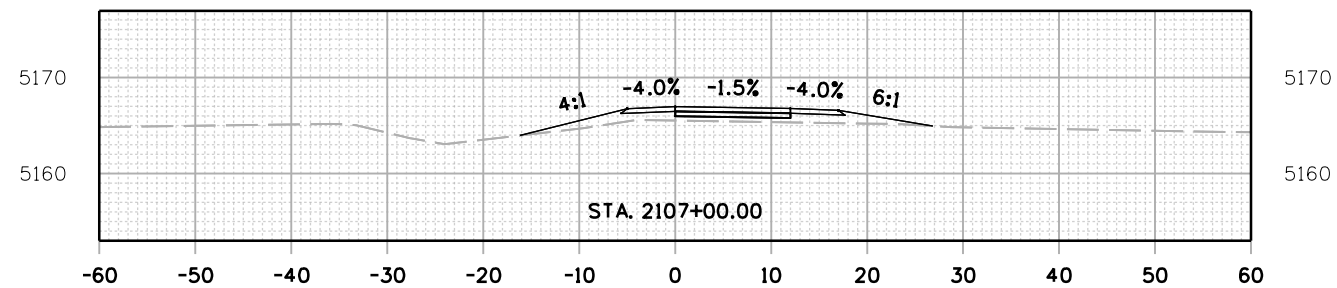
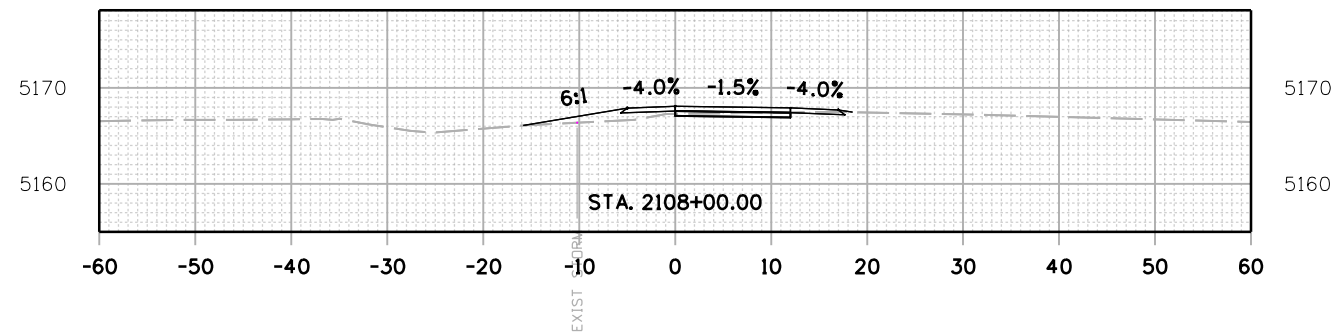
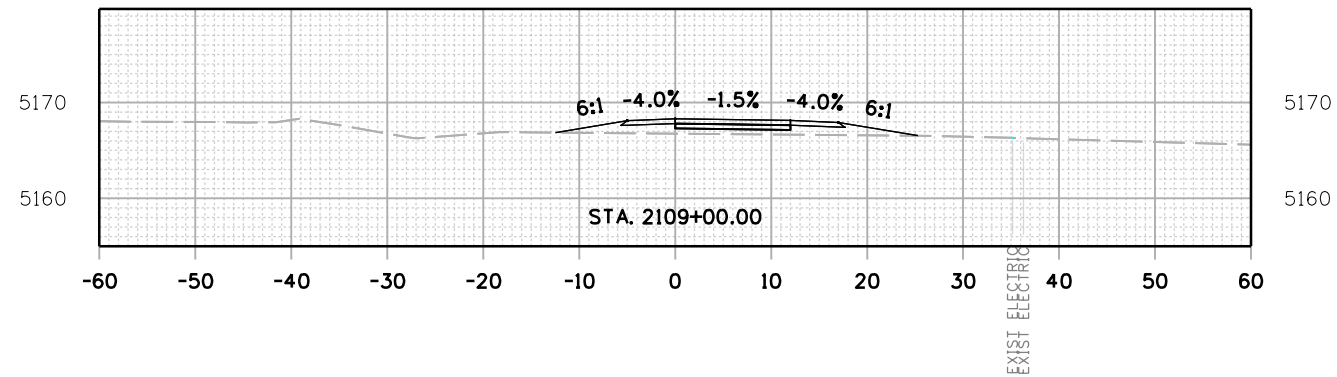


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| CD 119 BIKEWAY CROSS SECTIONS | | | |
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| Designer: | RML | Structure Numbers | |
| Detailer: | PDP | | |
| Sheet Subset: | XSEC | Subset Sheets: | 40 of 91 |

Project No./Code
 Sheet Number 222

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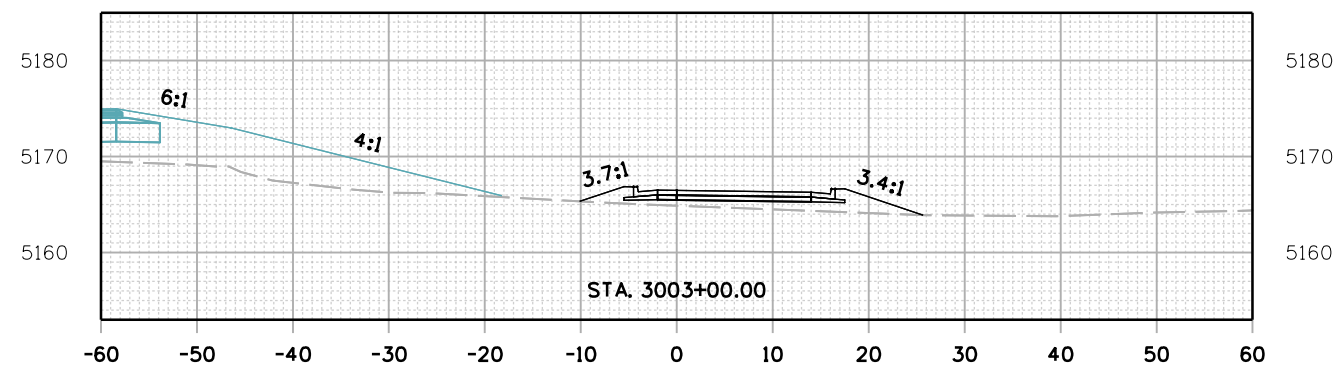
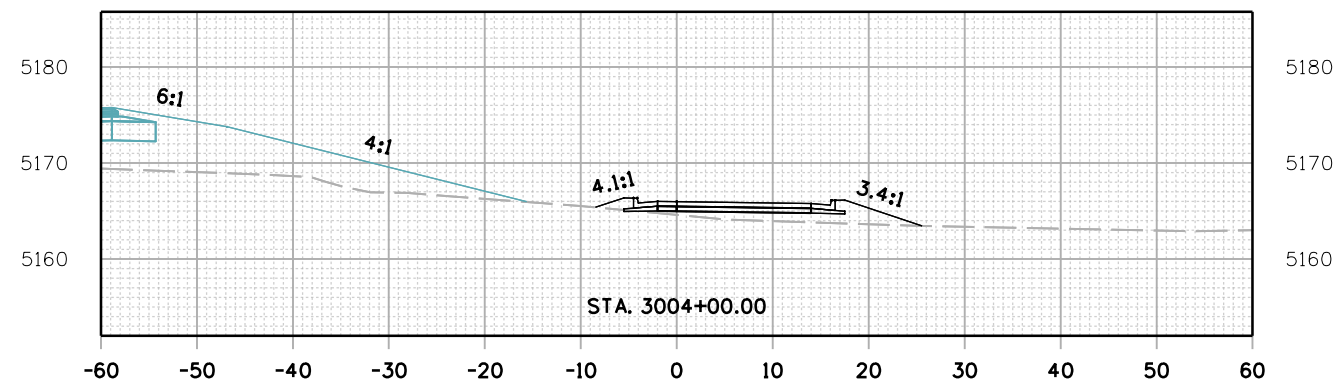
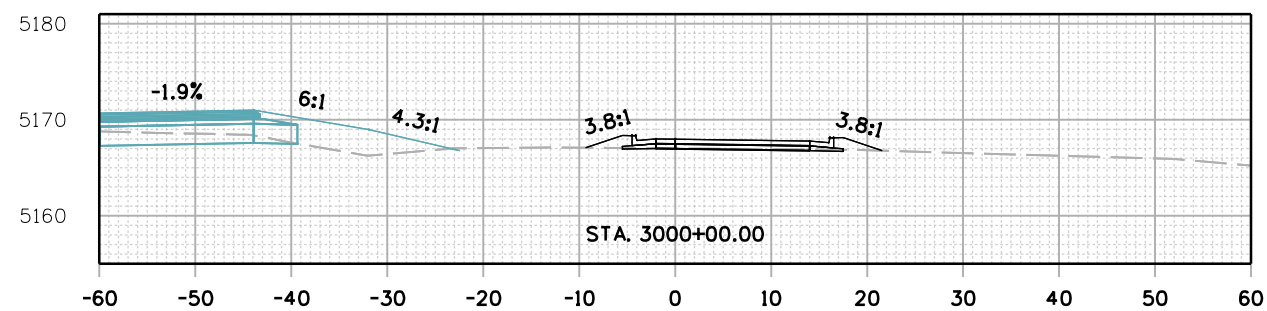
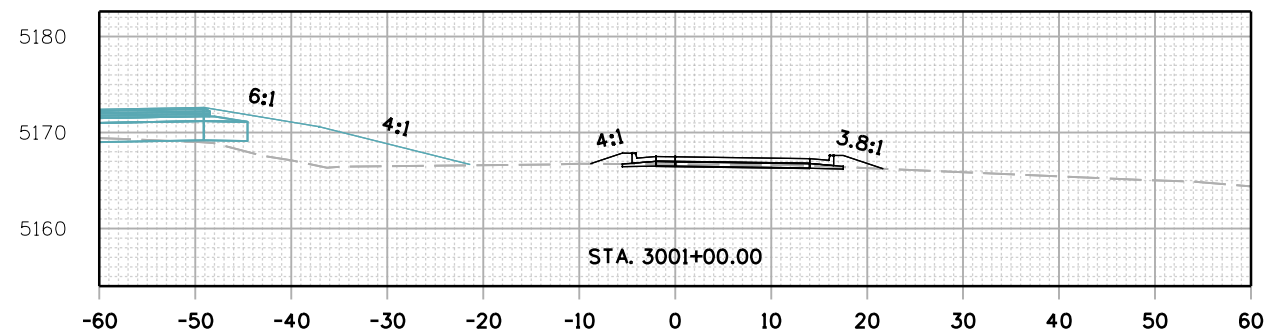
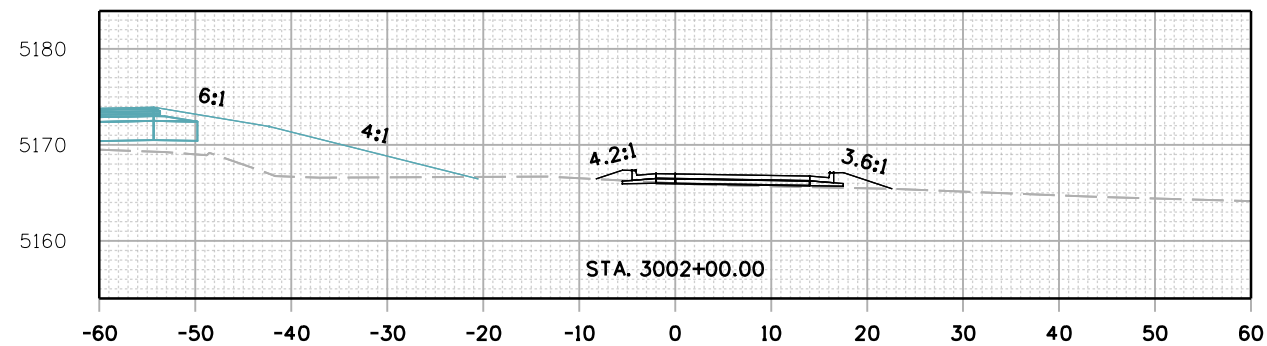
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| As Constructed | CD 119 BIKEWAY | | | Project No./Code |
| | CROSS SECTIONS | | | |
| | No Revisions: | Designer: RML | Structure Numbers | Sheet Number 223 |
| | Revised: | Detailer: PDP | Subset Sheets: 41 of 91 | |
| Void: | Sheet Subset: XSEC | | | |

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All seals for this set of drawings are applied to the cover page(s)

Print Date: 28-JUN-2022
 File Name: 21015_RD_SHEET_119BW(SEG3)_XSEC.dgn
 Horiz. Scale: Vert. Scale: As Noted
 Unit Information
MULLER
 ENGINEERING COMPANY

| Sheet Revisions | | |
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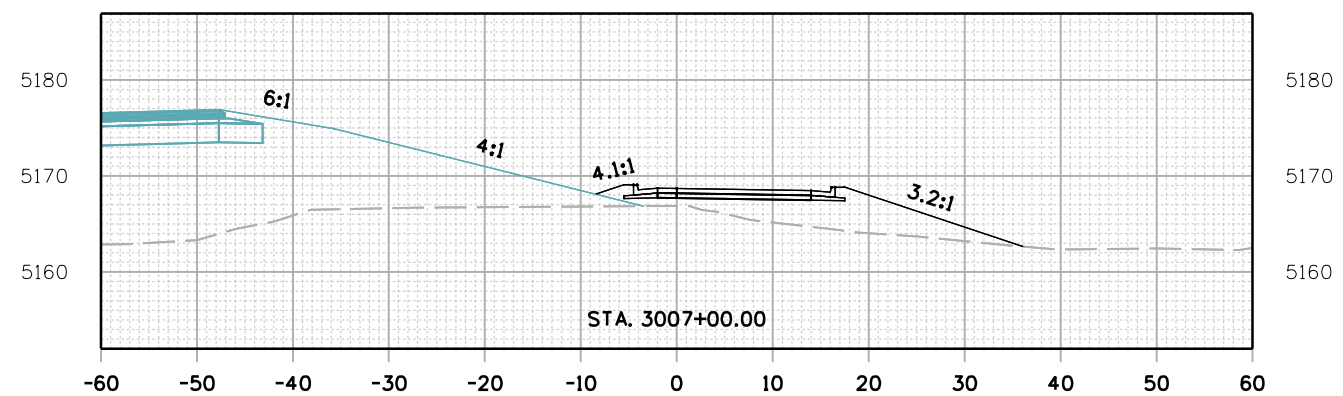
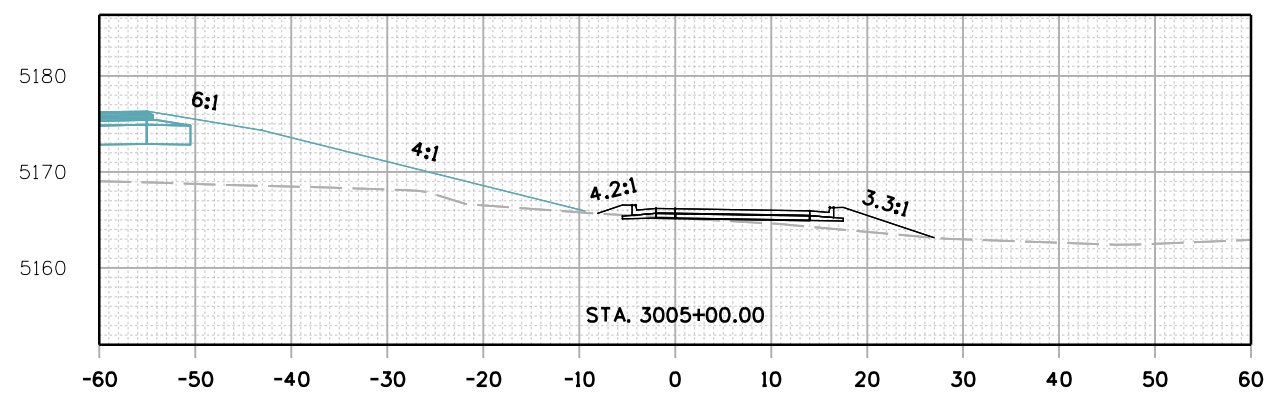
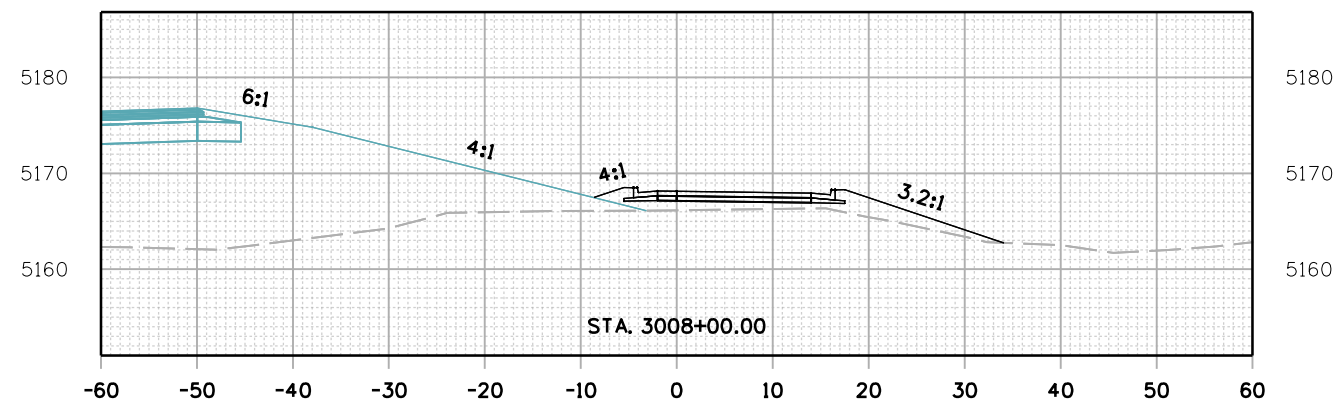
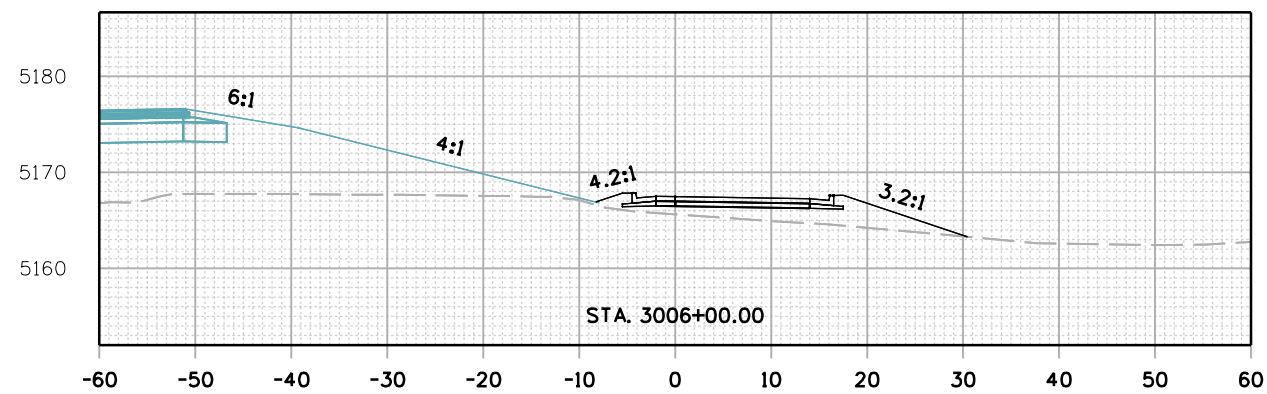


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| As Constructed |
| No Revisions: |
| Revised: |
| Void: |

| CD 119 BIKEWAY CROSS SECTIONS | | | |
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| Designer: | RML | Structure | Numbers |
| Detailer: | PDP | Subset Sheets: | 42 of 91 |
| Sheet Subset: | XSEC | | |

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| Project No./Code |
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| Sheet Number 224 |

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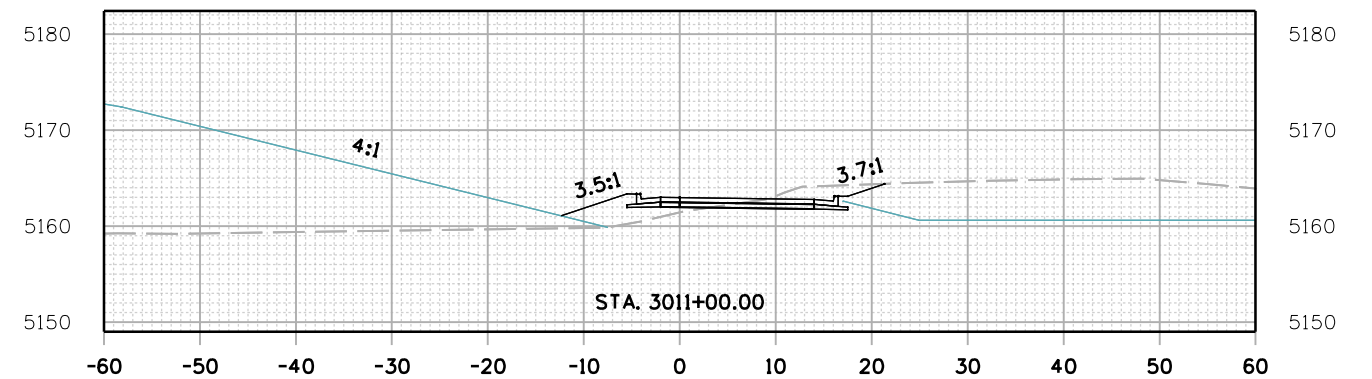
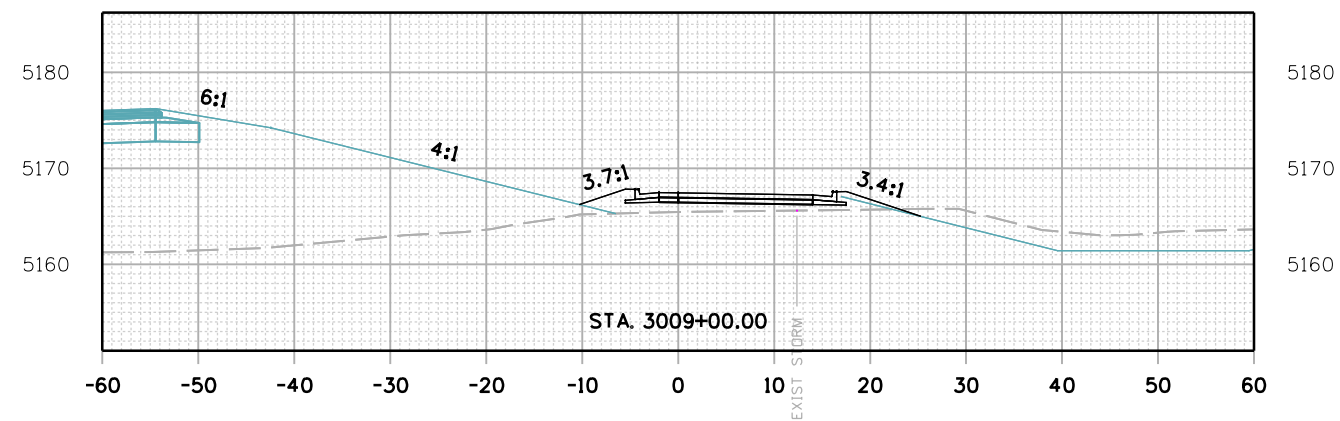
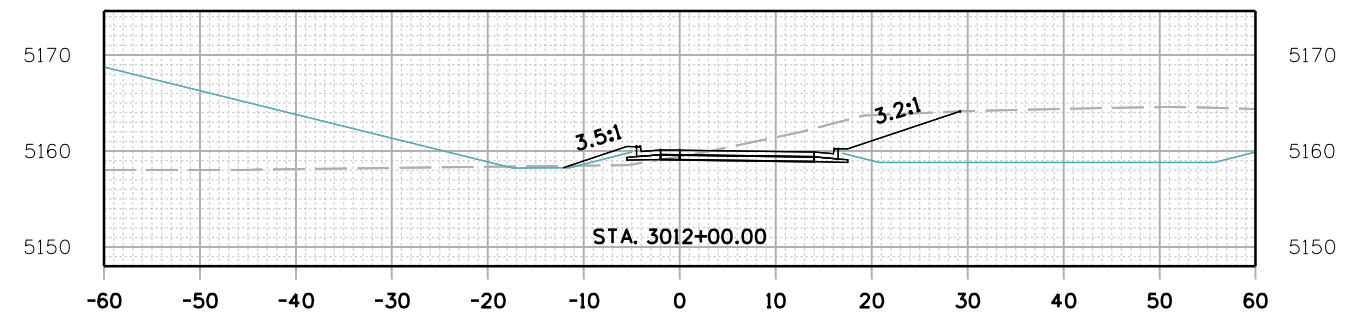
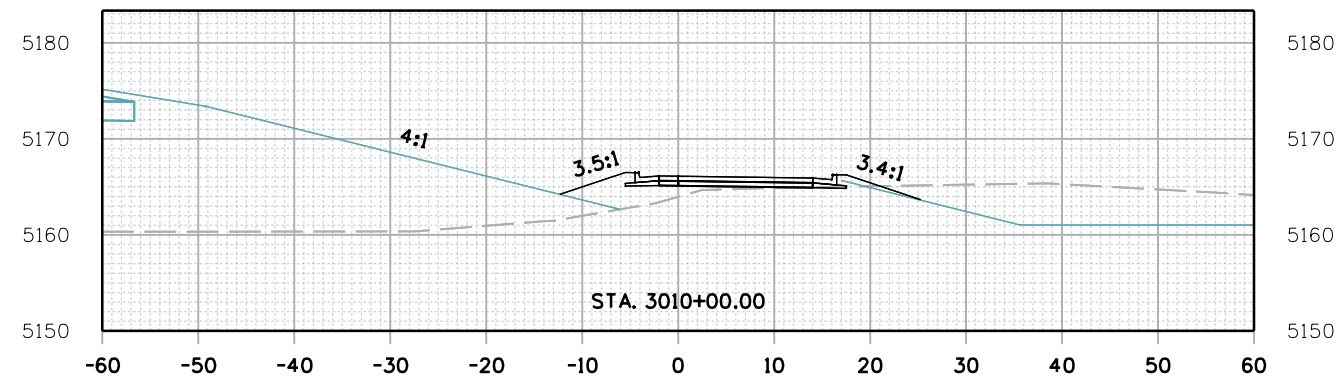
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 File Name: 21015_RD_SHEET_119BW(SEG3)_XSEC.dgn
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 Unit Information
MULLER
 ENGINEERING COMPANY

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| As Constructed | | CD 119 BIKEWAY CROSS SECTIONS | | | Project No./Code |
|----------------|--|----------------------------------|------|-------------------------|------------------|
| No Revisions: | | Designer: | RML | Structure Numbers | |
| Revised: | | Detailer: | PDP | | |
| Void: | | Sheet Subset: | XSEC | Subset Sheets: 43 of 91 | Sheet Number 225 |

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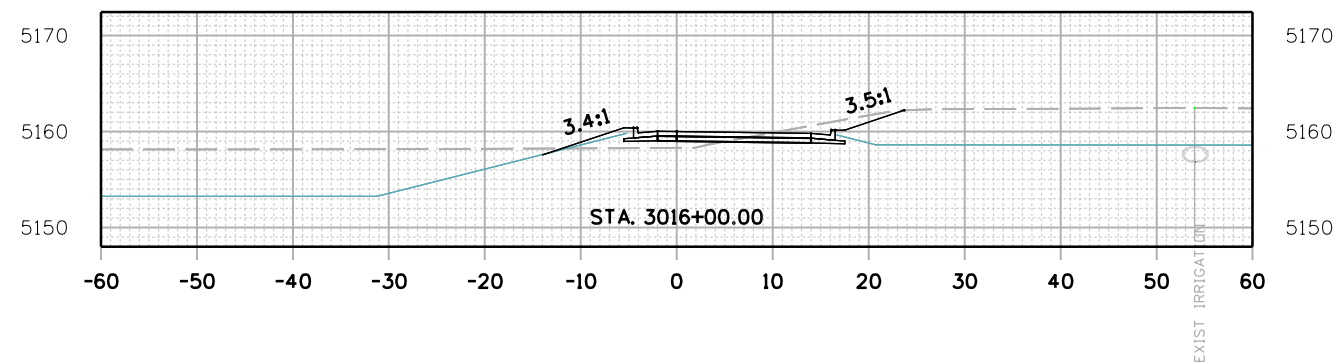
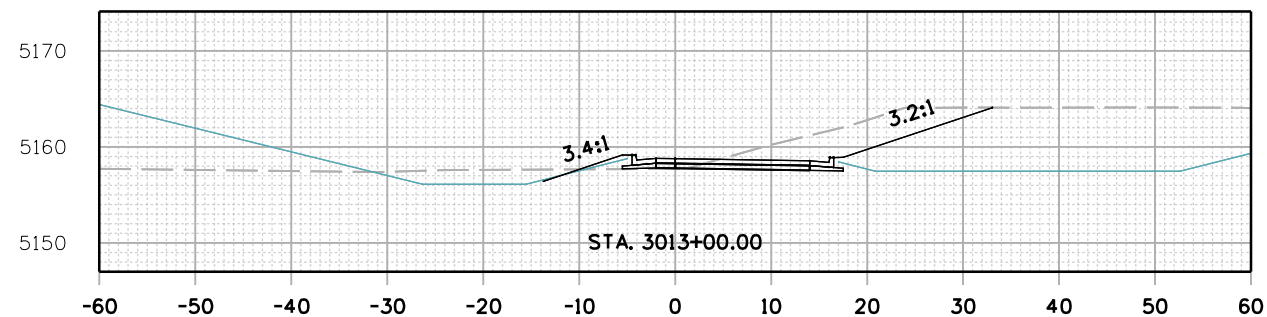
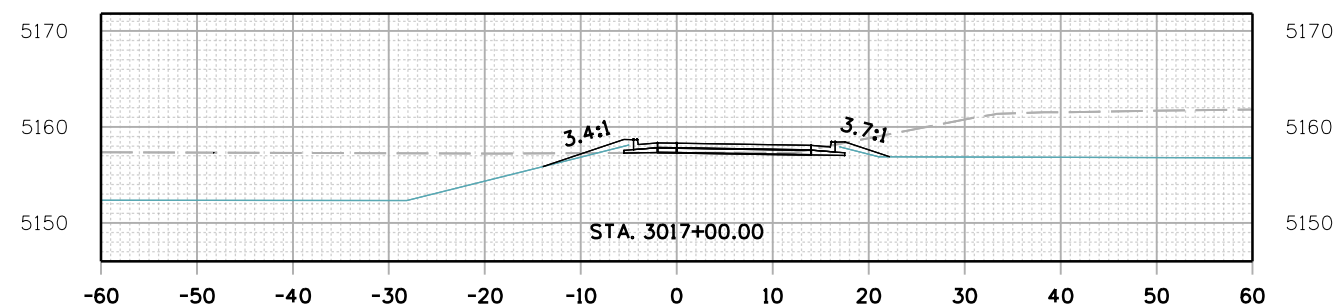
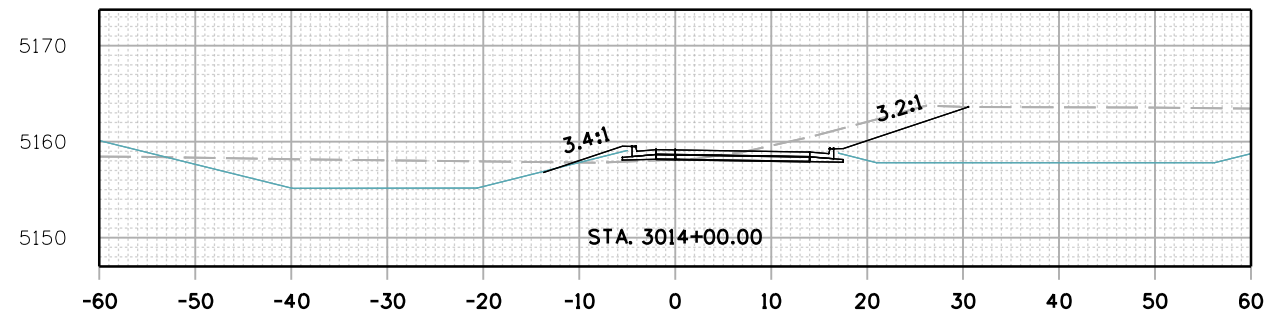
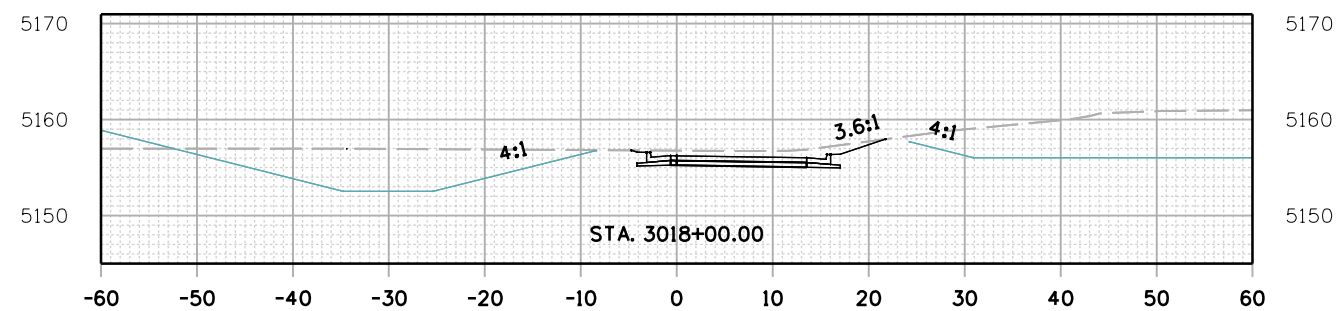
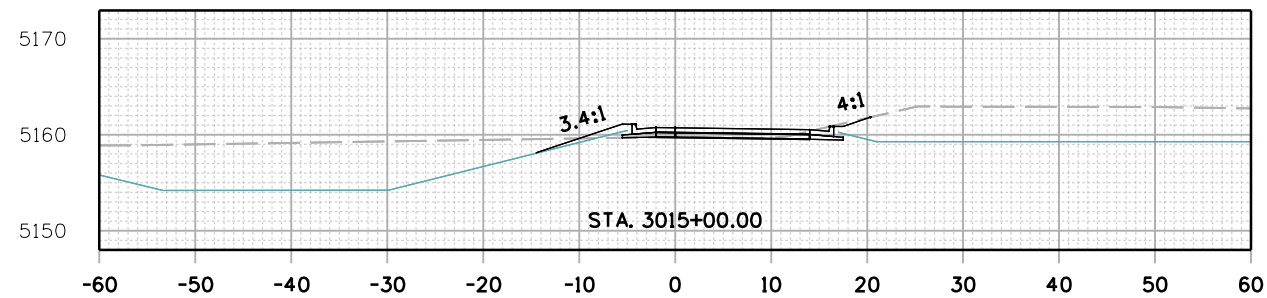
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| As Constructed | | CD 119 BIKEWAY CROSS SECTIONS | | Project No./Code |
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| No Revisions: | | Designer: | RML | |
| Revised: | | Detailer: | PDP | |
| Void: | | Sheet Subset: | XSEC | |
| | | Structure Numbers | | |
| | | Subset Sheets: | 44 of 91 | Sheet Number 226 |

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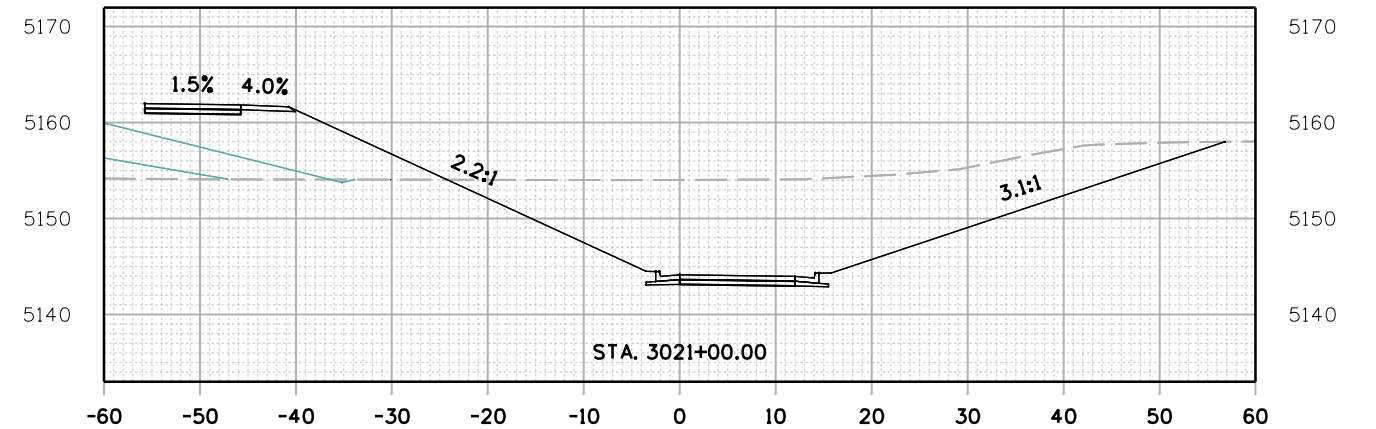
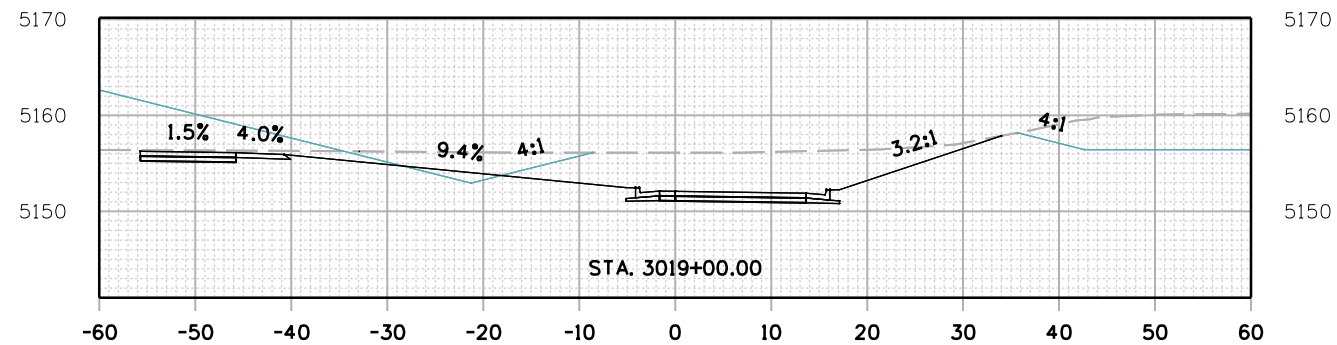
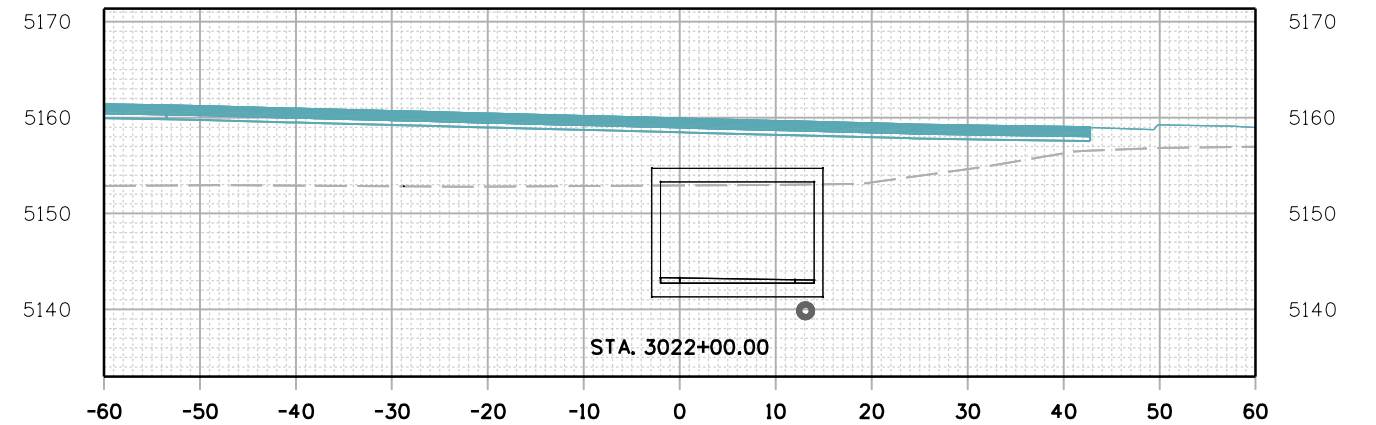
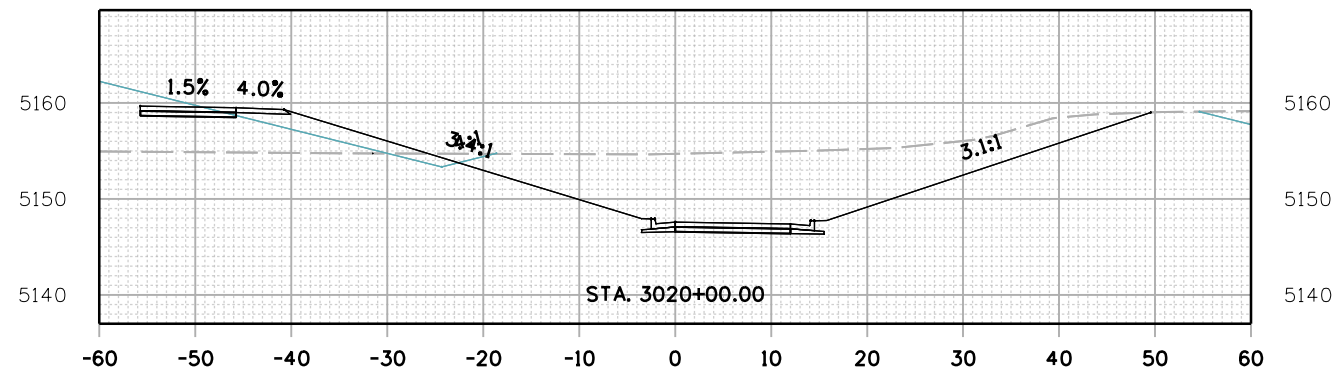
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 Unit Information
MULLER
 ENGINEERING COMPANY

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| CD 119 BIKEWAY | | | | Project No./Code |
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| CROSS SECTIONS | | | | |
| As Constructed | Designer: RML | | Structure Numbers | Sheet Number 227 |
| No Revisions: | Detailer: PDP | | | |
| Revised: | Sheet Subset: XSEC | Subset Sheets: 45 of 91 | | |
| Void: | | | | |

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All seals for this set of drawings are applied to the cover page(s)

Print Date: 28-JUN-2022
 File Name: 21015_RD_SHEET_119BW(SEG3)_XSEC.dgn
 Horiz. Scale: Vert. Scale: As Noted
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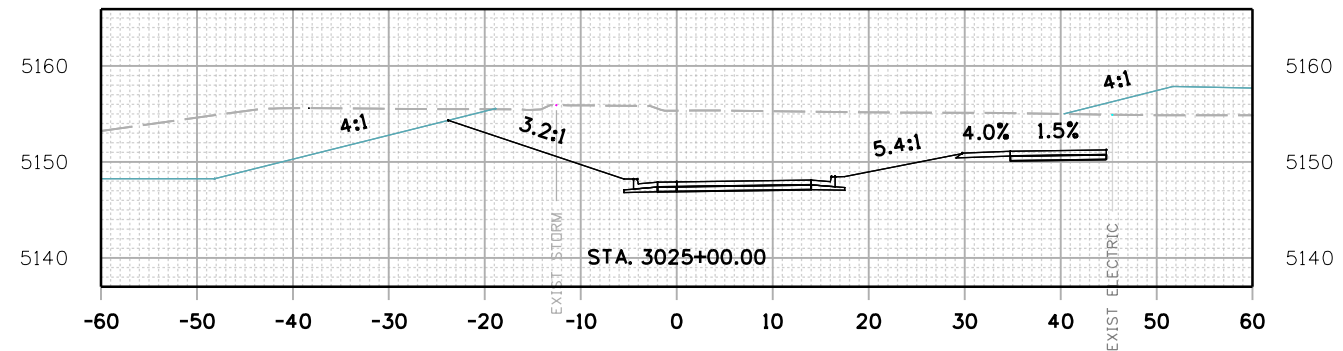
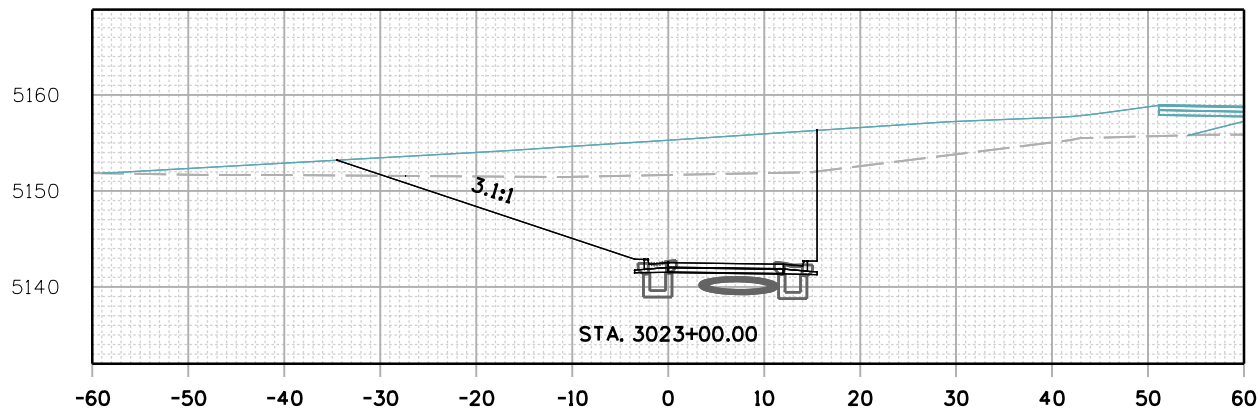
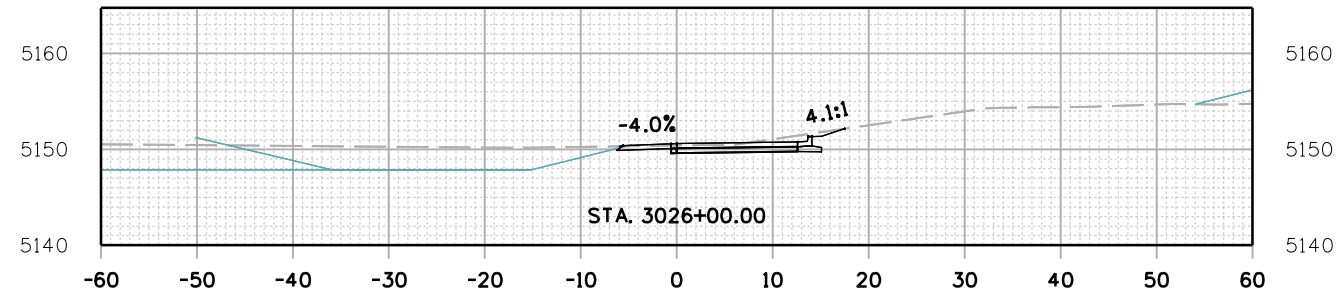
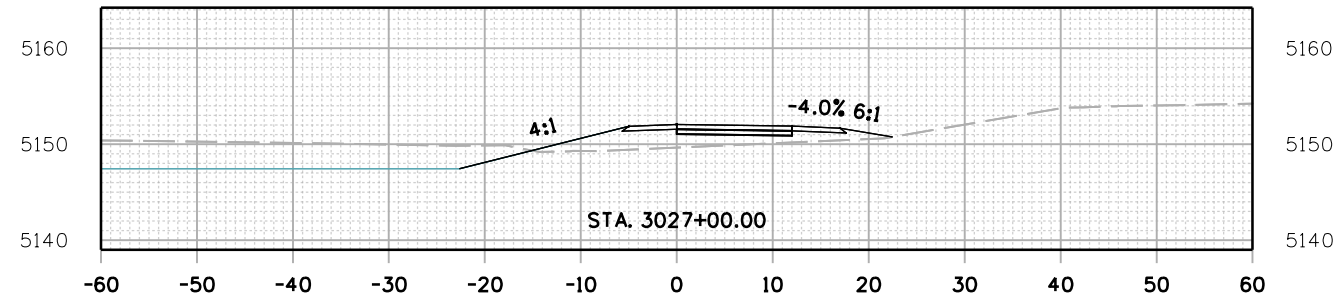
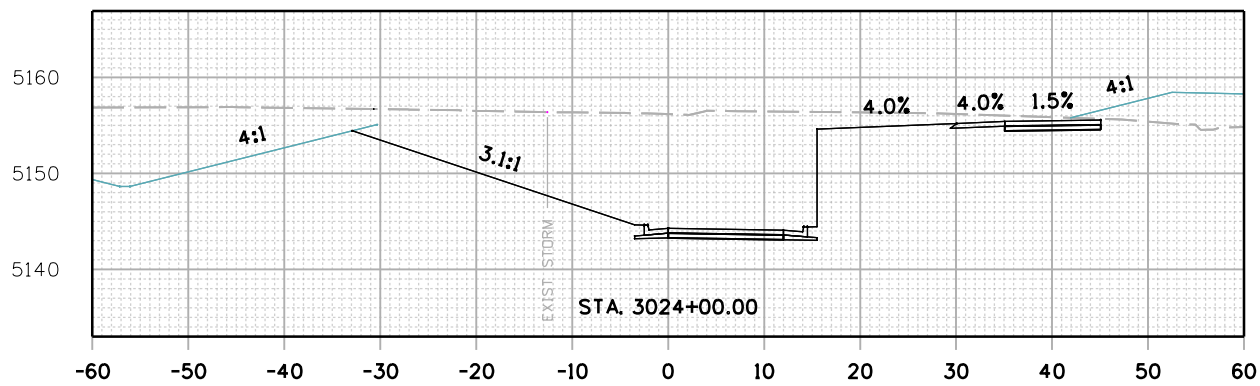


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| CD 119 BIKEWAY | | | |
| CROSS SECTIONS | | | |
| Designer: | RML | Structure Numbers | |
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| Sheet Subset: | XSEC | Subset Sheets: | 46 of 91 |

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| Project No./Code |
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| Sheet Number 228 |

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All seals for this set of drawings are applied to the cover page(s)

Print Date: 28-JUN-2022
 File Name: 21015_RD_SHEET_119BW(SEG3)_XSEC.dgn
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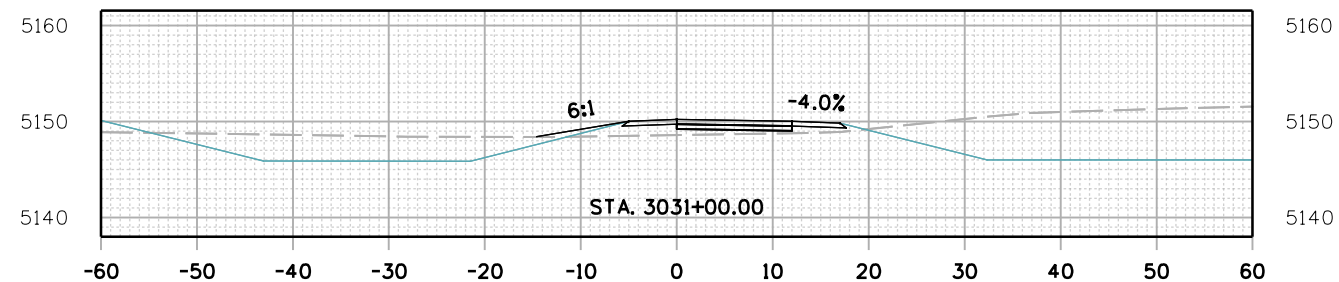
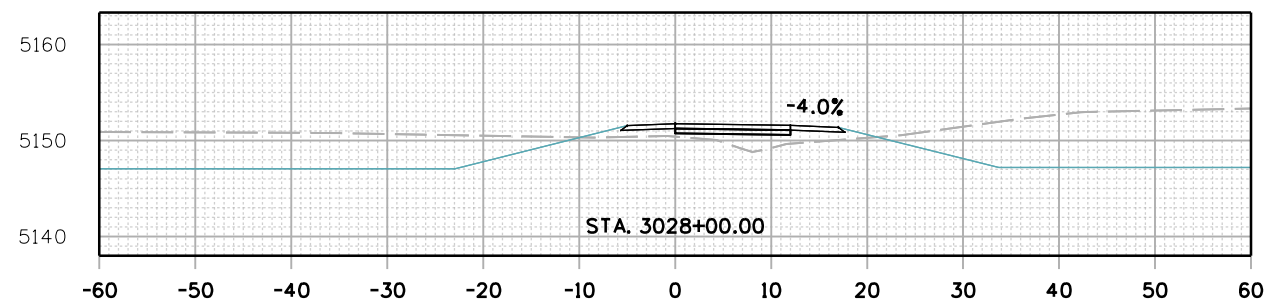
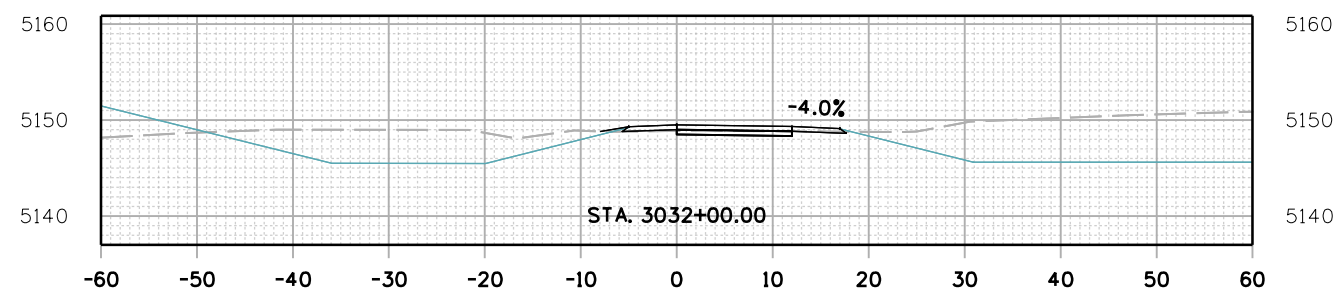
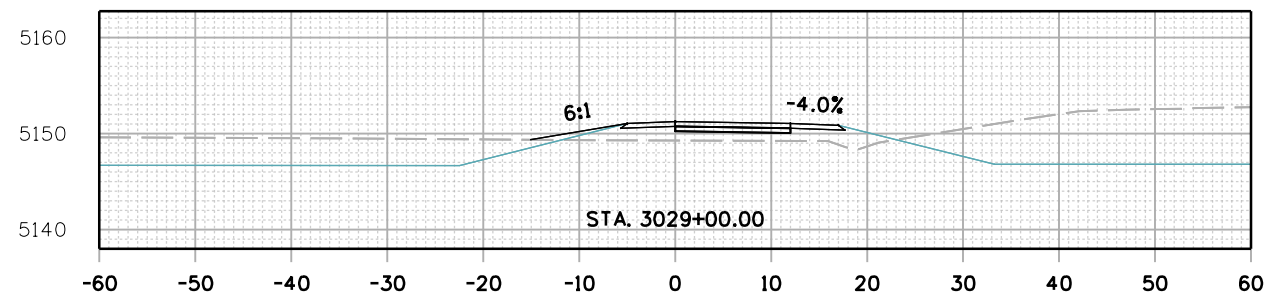
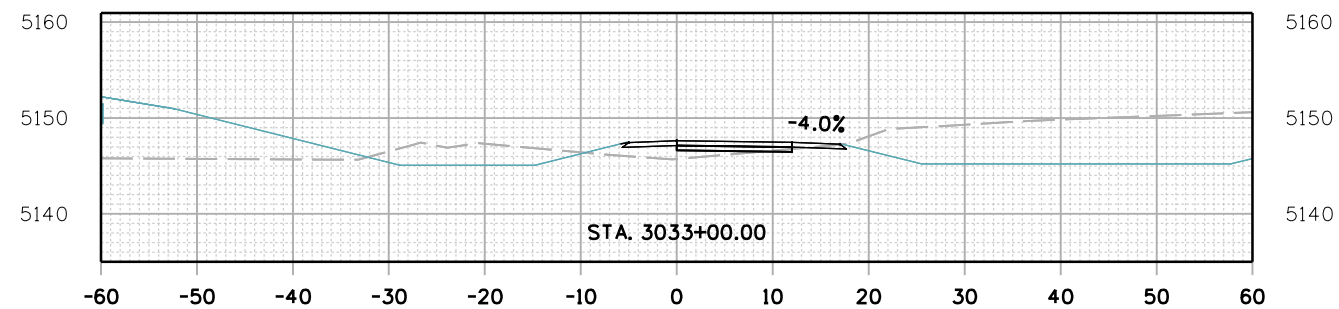
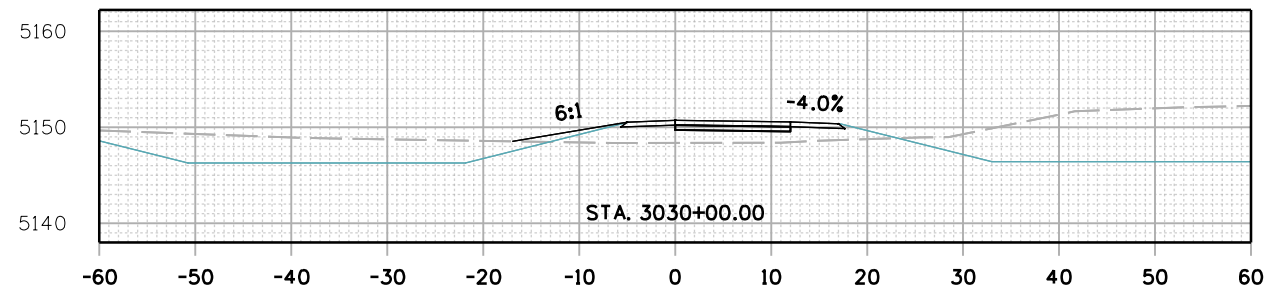


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| CD 119 BIKEWAY CROSS SECTIONS | | | |
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| Designer: | RML | Structure Numbers | |
| Detailer: | PDP | | |
| Sheet Subset: | XSEC | Subset Sheets: | 47 of 91 |

Project No./Code
 Sheet Number 229

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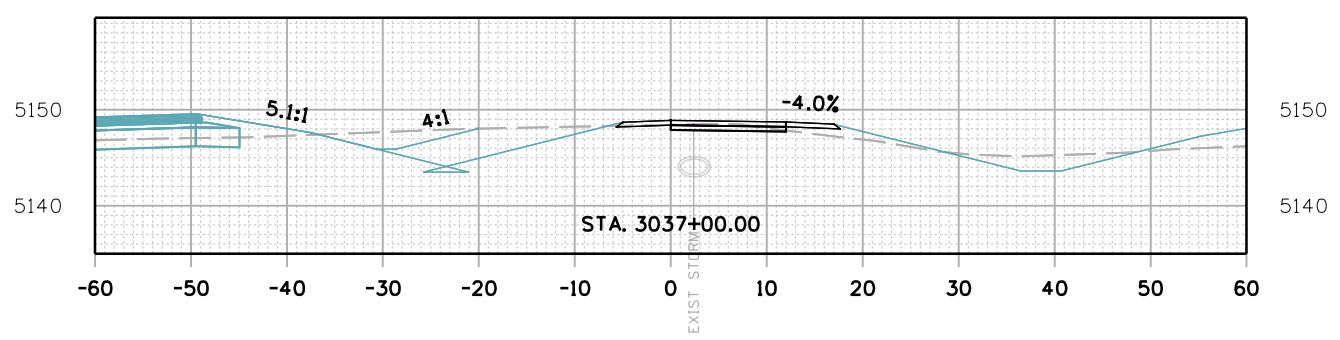
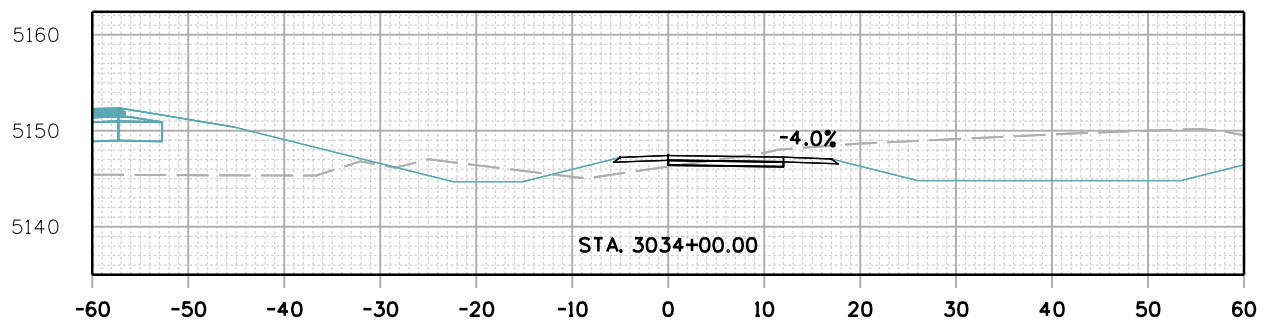
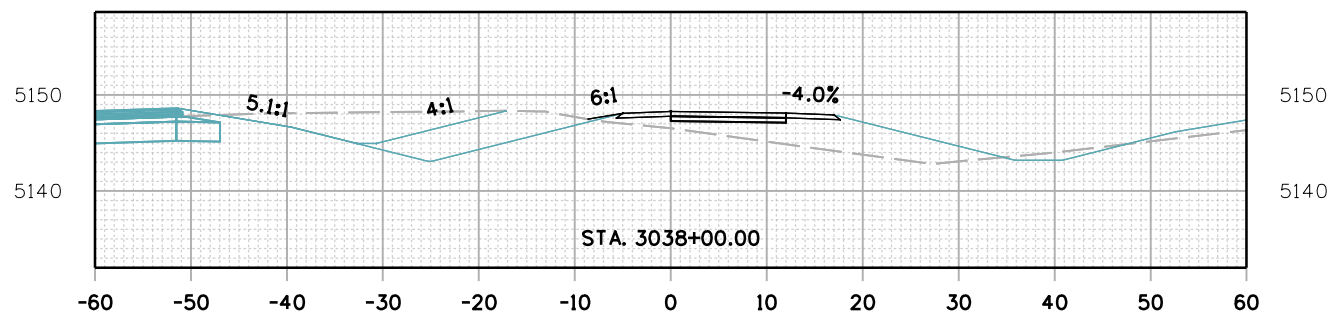
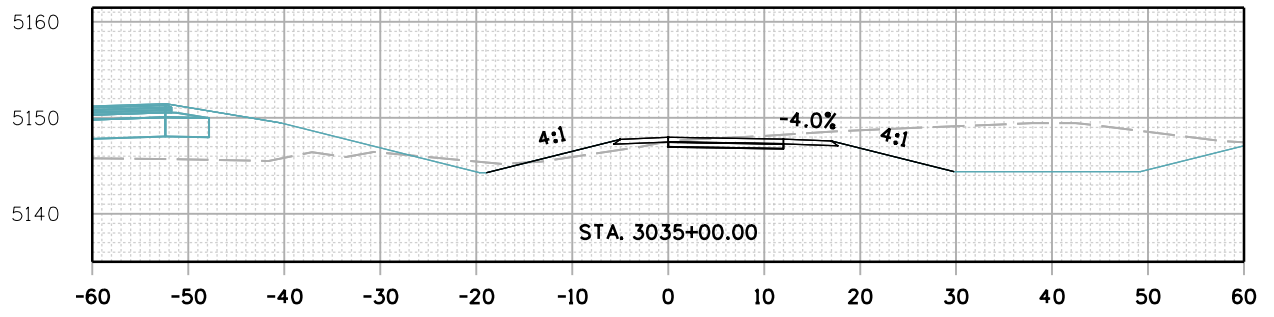
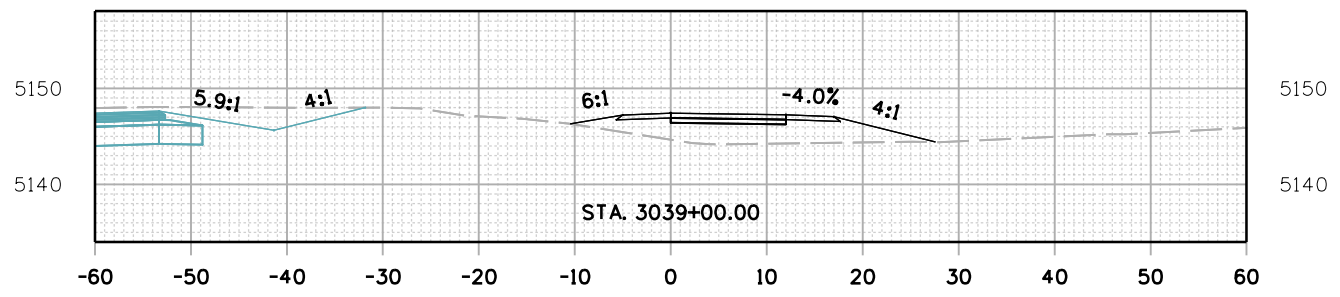
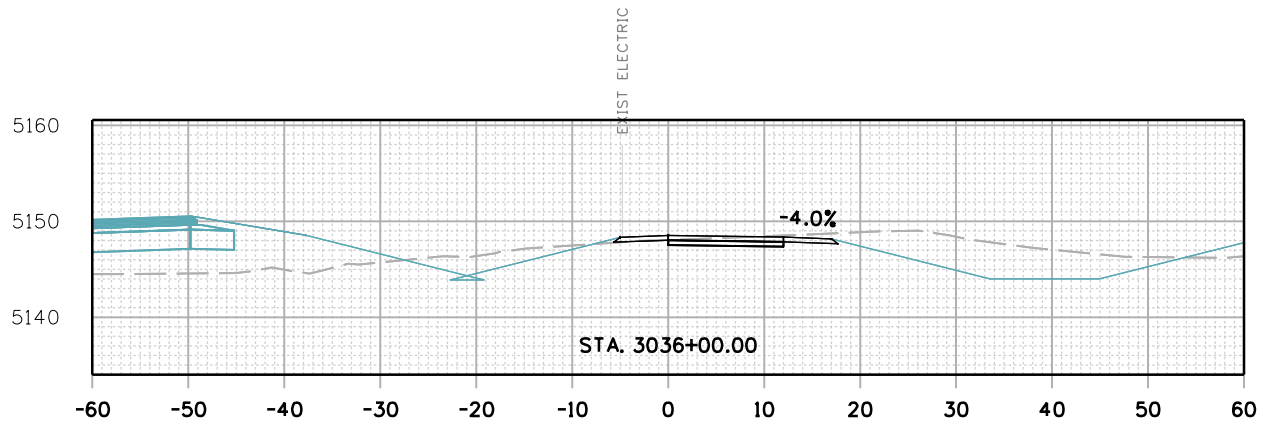
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| As Constructed | CD 119 BIKEWAY | | | Project No./Code |
| | CROSS SECTIONS | | | |
| | No Revisions: | Designer: RML | Structure Numbers | Sheet Number 230 |
| | Revised: | Detailer: PDP | Subset Sheets: 48 of 91 | |
| Void: | Sheet Subset: XSEC | | | |

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Print Date: 28-JUN-2022
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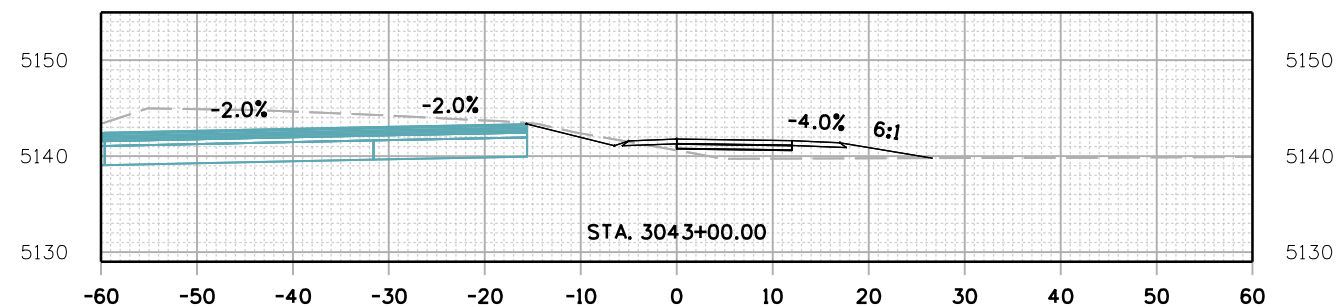
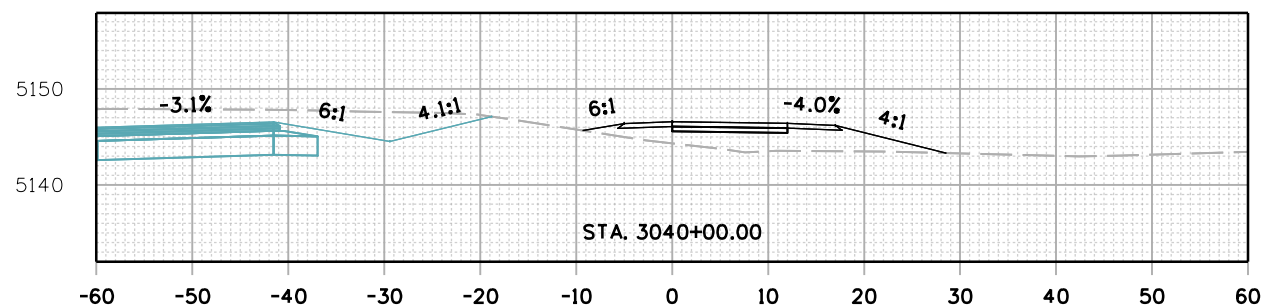
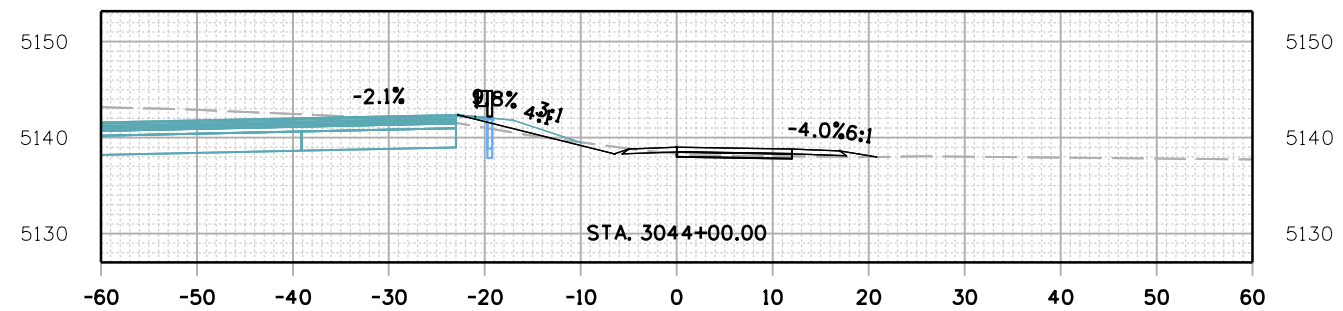
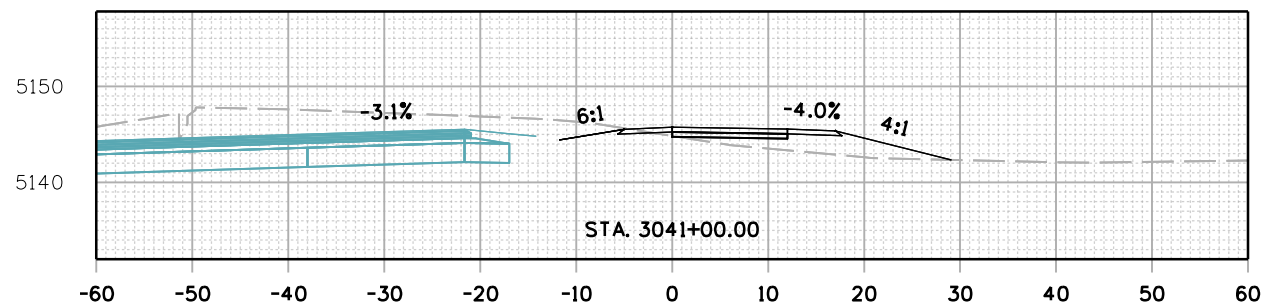
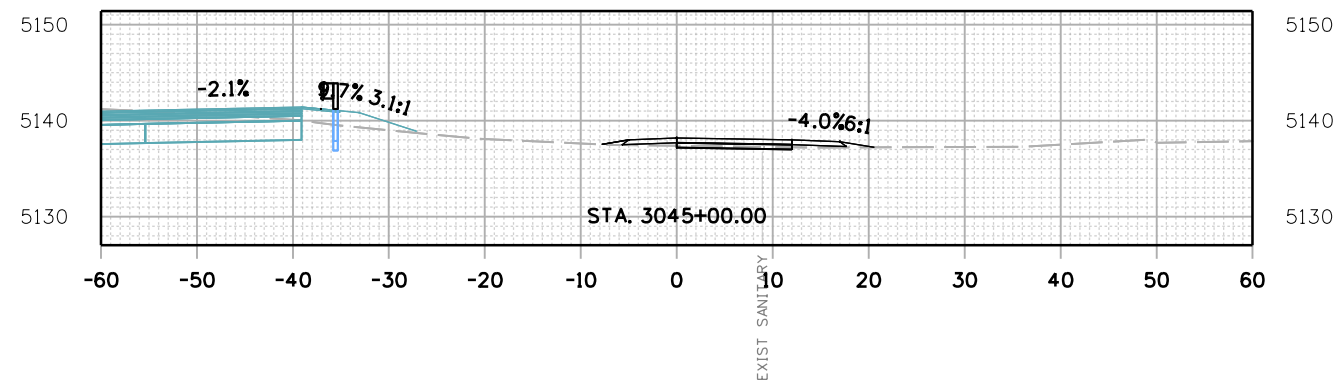
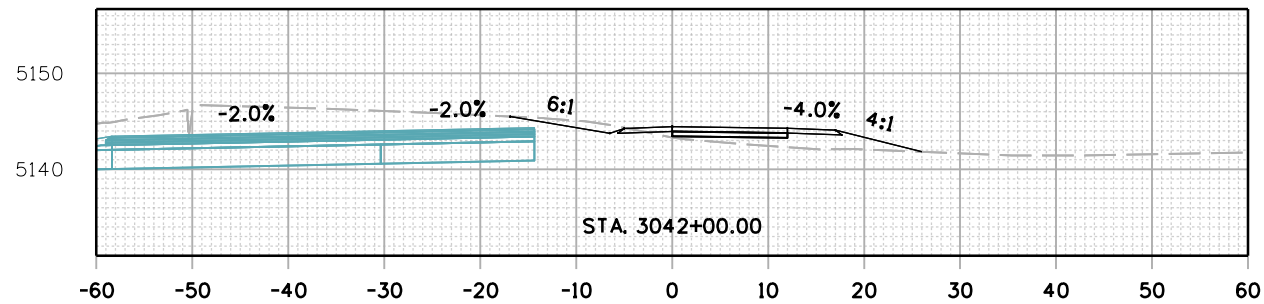


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| CD 119 BIKEWAY CROSS SECTIONS | | | |
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| Designer: | RML | Structure Numbers | |
| Detailer: | PDP | | |
| Sheet Subset: | XSEC | Subset Sheets: | 49 of 91 |

Project No./Code
 Sheet Number 231

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All seals for this set of drawings are applied to the cover page(s)

Print Date: 28-JUN-2022
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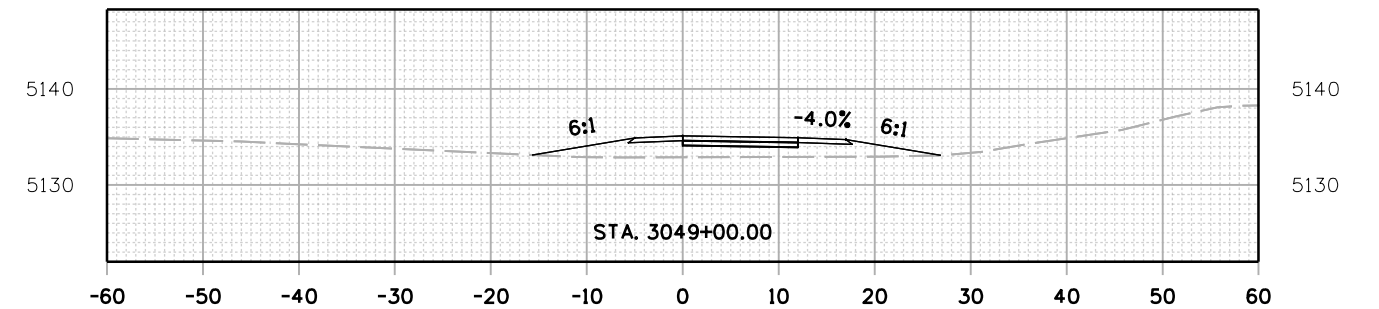
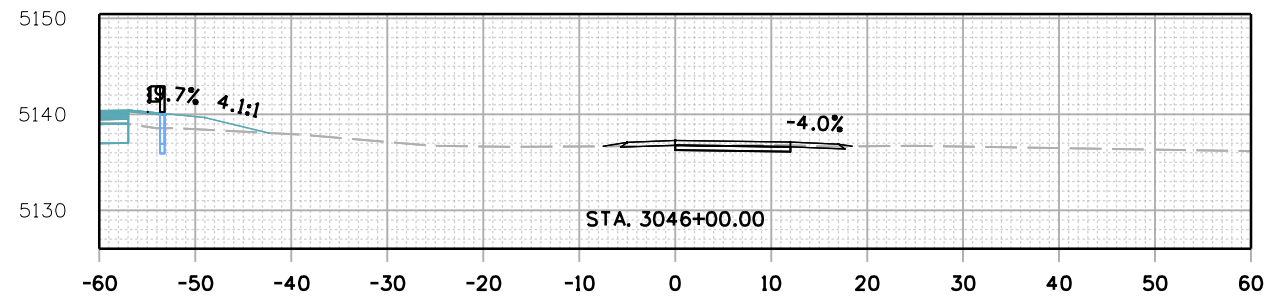
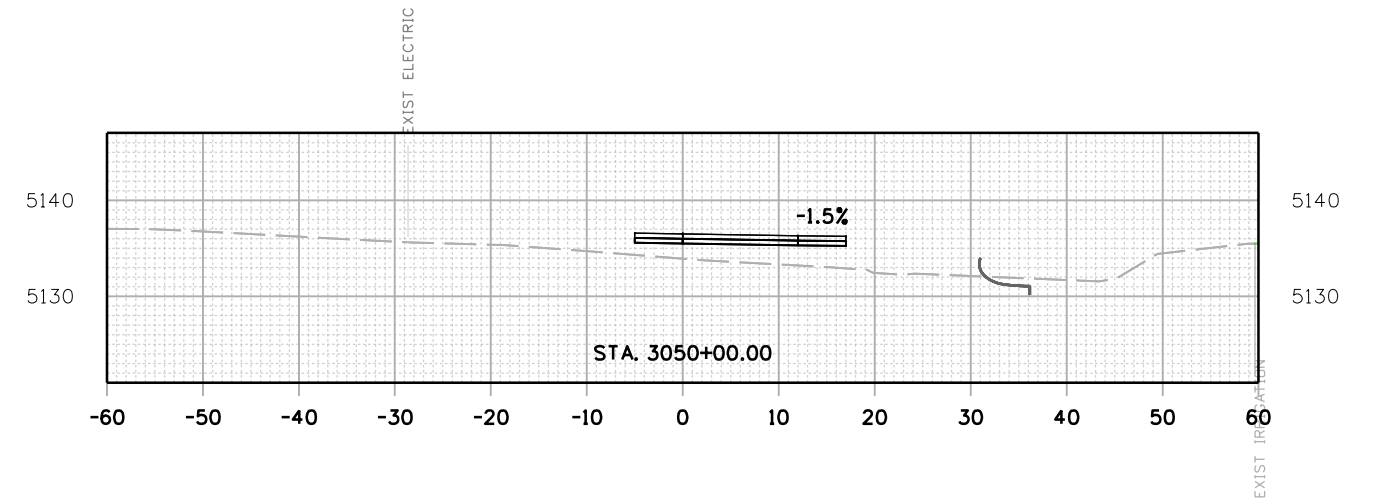
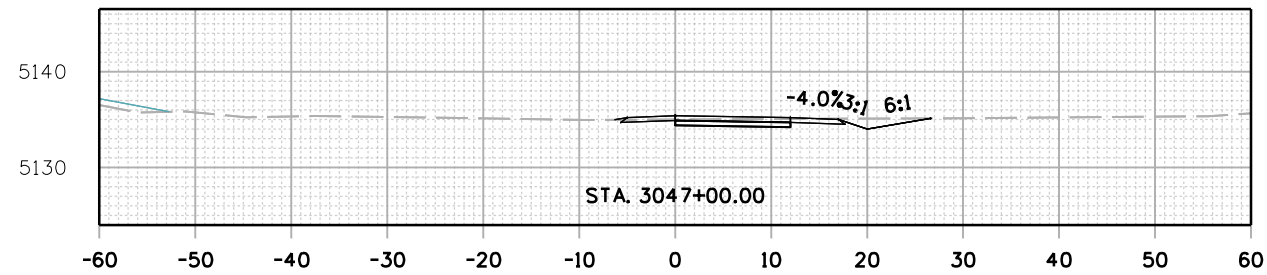
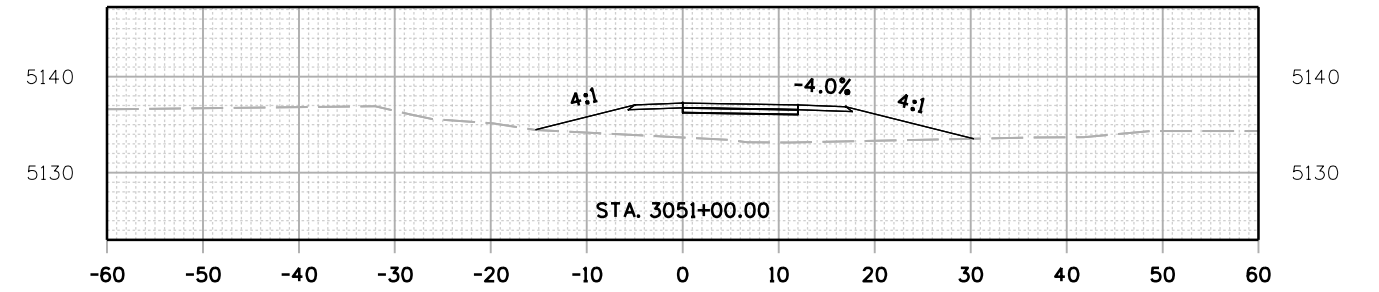
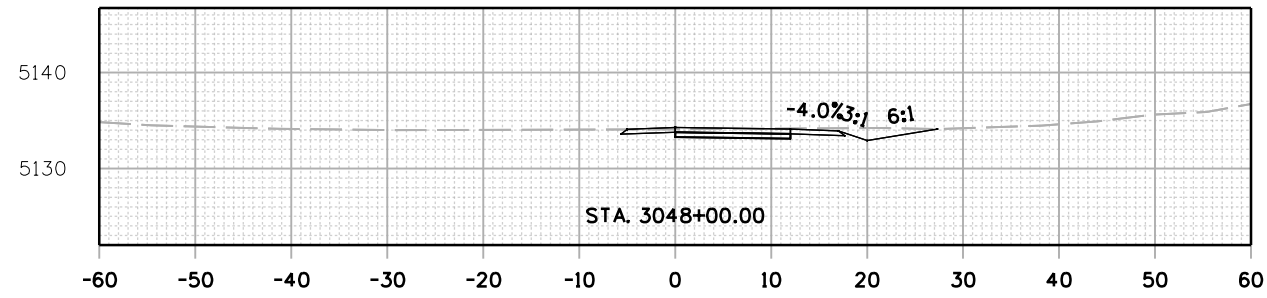


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| CD 119 BIKEWAY | | | |
| CROSS SECTIONS | | | |
| Designer: | RML | Structure | |
| Detailer: | PDP | Numbers | |
| Sheet Subset: | XSEC | Subset Sheets: | 50 of 91 |

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| Project No./Code |
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| Sheet Number 232 |

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Print Date: 28-JUN-2022
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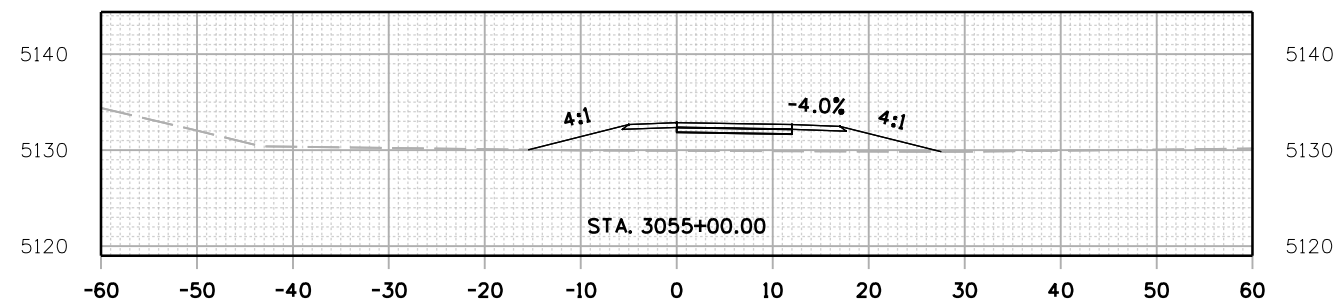
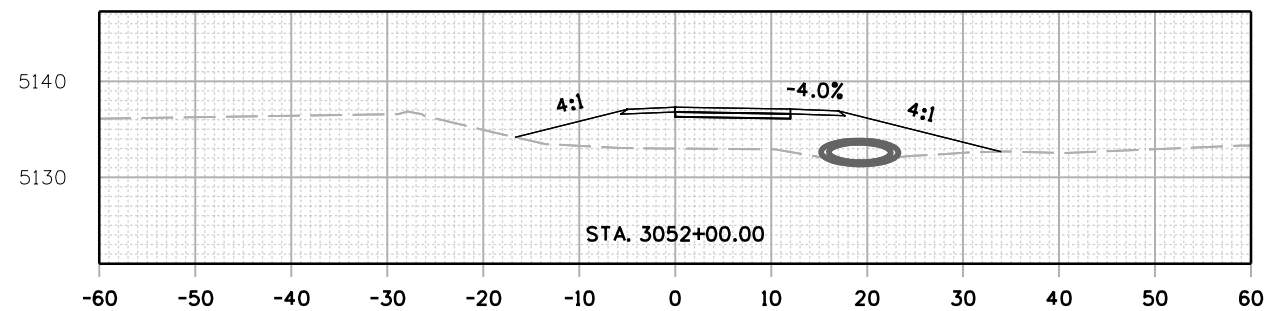
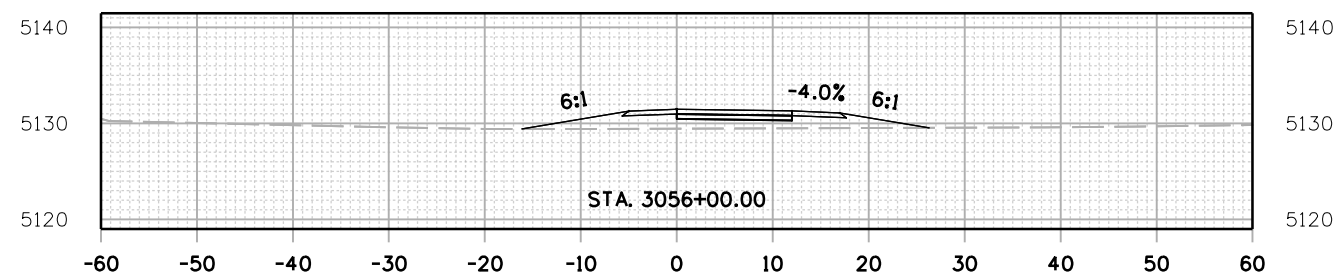
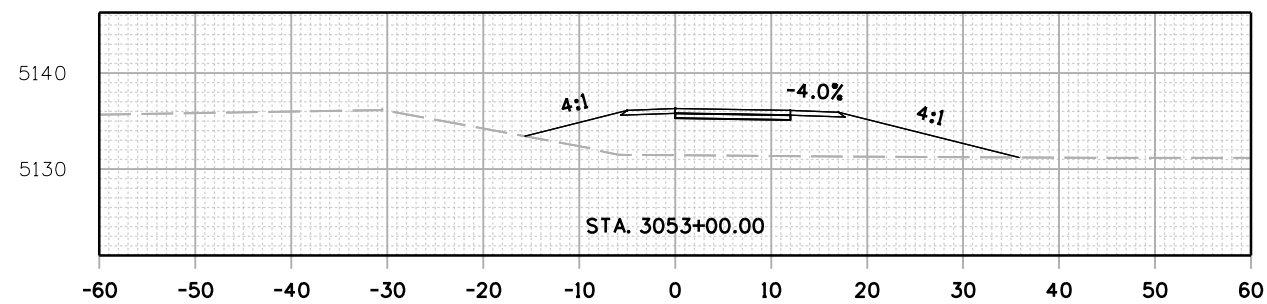
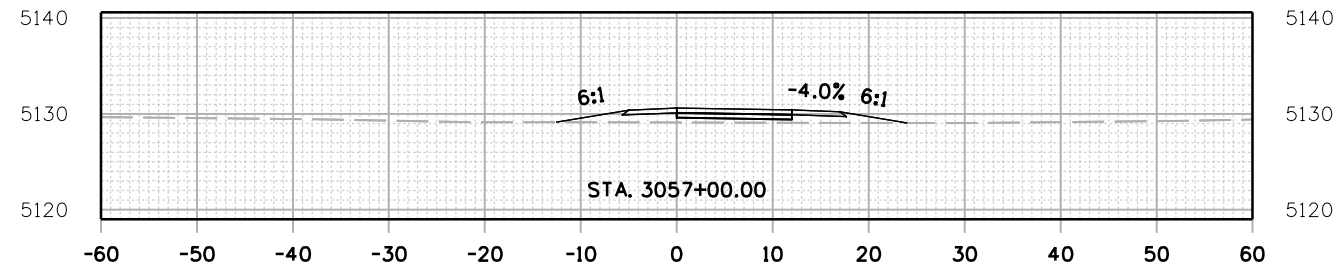
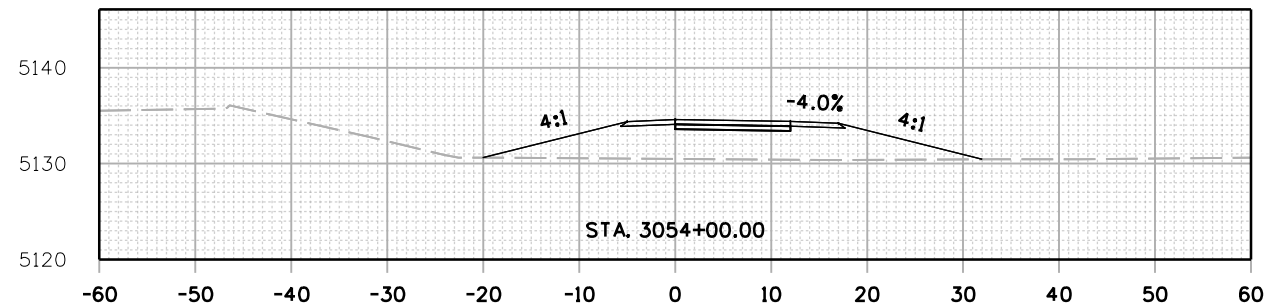


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| CD 119 BIKEWAY CROSS SECTIONS | | | |
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| Detailer: | PDP | | |
| Sheet Subset: | XSEC | Subset Sheets: | 51 of 91 |

Project No./Code
 Sheet Number 233

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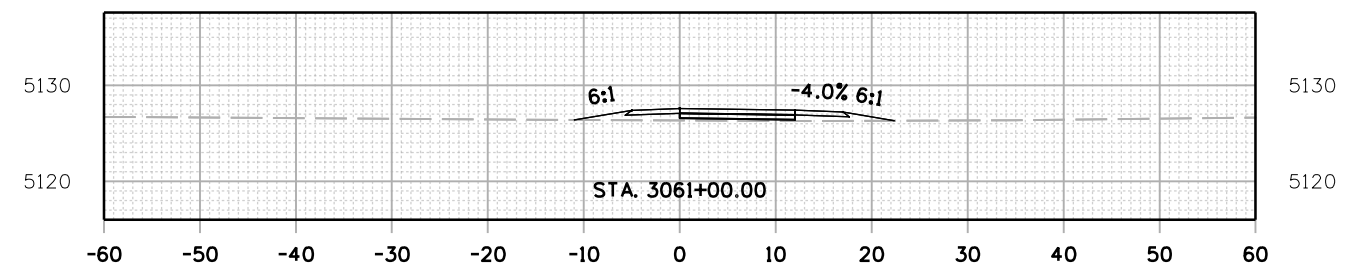
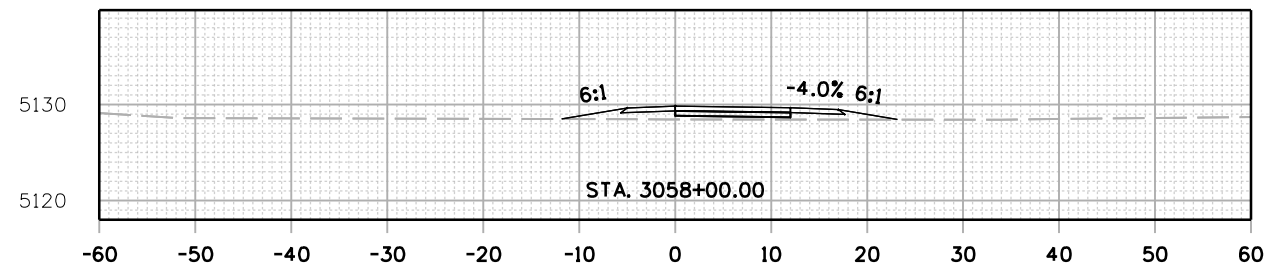
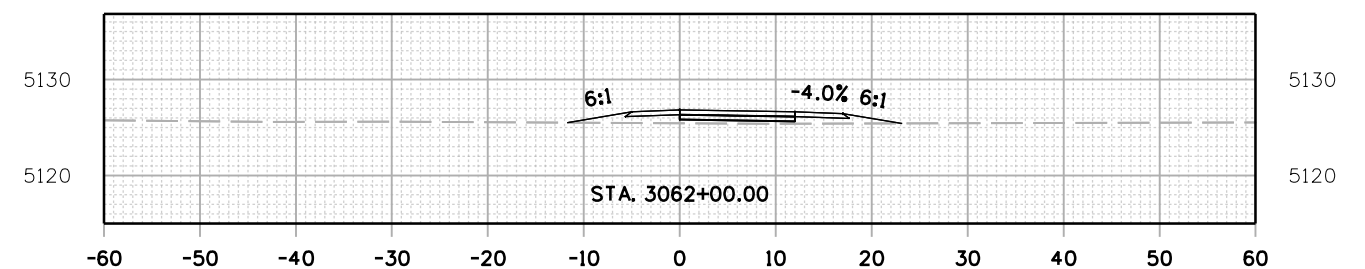
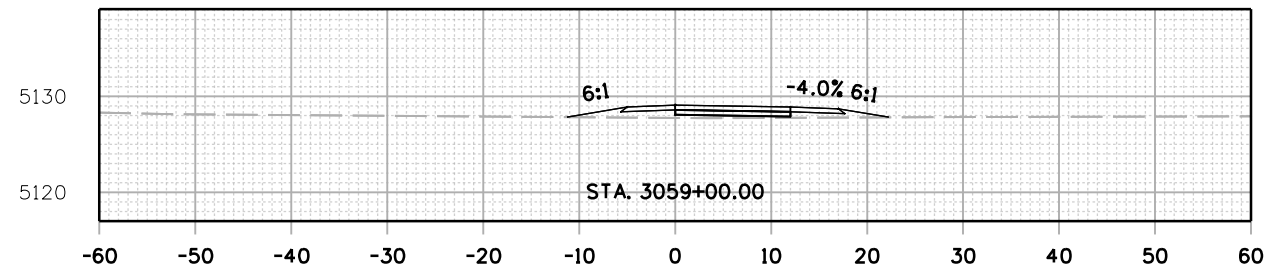
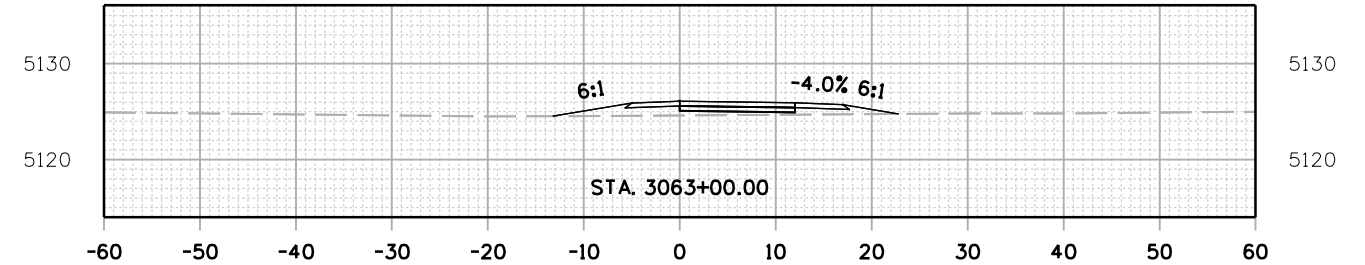
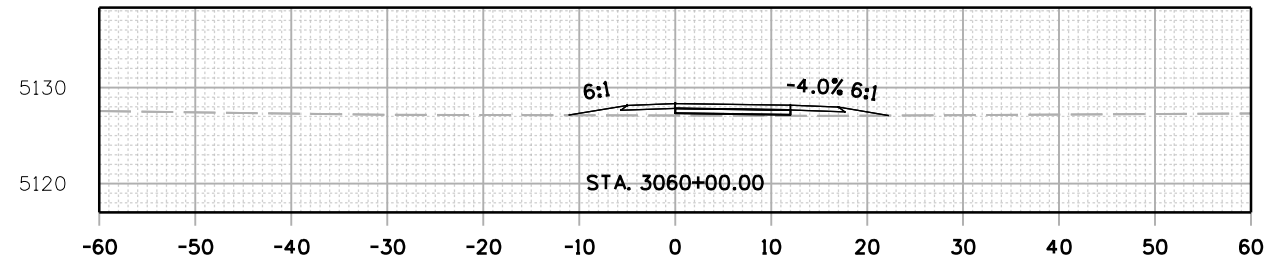
Print Date: 28-JUN-2022
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 Unit Information

| Sheet Revisions | | |
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| Date: | Comments | Init. |
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| As Constructed | | CD 119 BIKEWAY CROSS SECTIONS | | Project No./Code |
|----------------|--|-------------------------------|----------|------------------|
| No Revisions: | | Designer: | RML | |
| Revised: | | Detailer: | PDP | |
| Void: | | Sheet Subset: | XSEC | |
| | | Structure Numbers | | |
| | | Subset Sheets: | 52 of 91 | Sheet Number 234 |

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All seals for this set of drawings are applied to the cover page(s)

Print Date: 28-JUN-2022
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 Horiz. Scale: Vert. Scale: As Noted
 Unit Information

| Sheet Revisions | | |
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| Date: | Comments | Init. |
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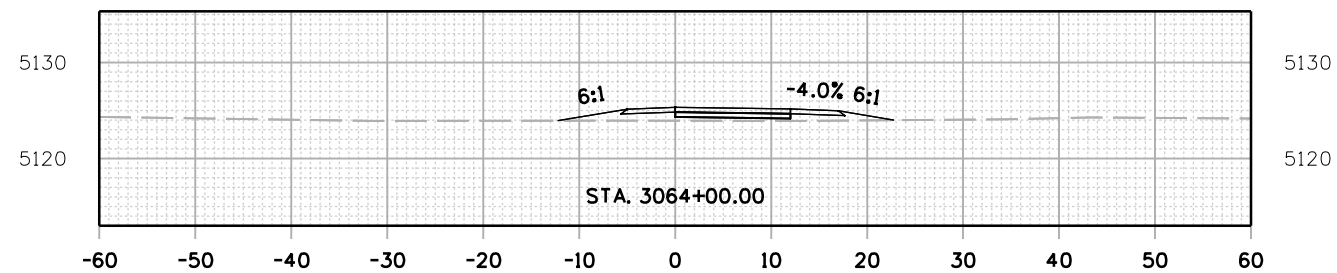


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| As Constructed |
| No Revisions: |
| Revised: |
| Void: |

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|----------------|------|----------------|----------|
| CD 119 BIKEWAY | | | |
| CROSS SECTIONS | | | |
| Designer: | RML | Structure | |
| Detailer: | PDP | Numbers | |
| Sheet Subset: | XSEC | Subset Sheets: | 53 of 91 |

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| Project No./Code |
| |
| Sheet Number 235 |

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All seals for this set of drawings are applied to the cover page(s)

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| Print Date: 28-JUN-2022 |
| File Name: 21015_RD_SHEET_119BW(SEG3)_XSEC.dgn |
| Horiz. Scale: Vert. Scale: As Noted |
| Unit Information |
| MULLER ENGINEERING COMPANY |

| Sheet Revisions | | |
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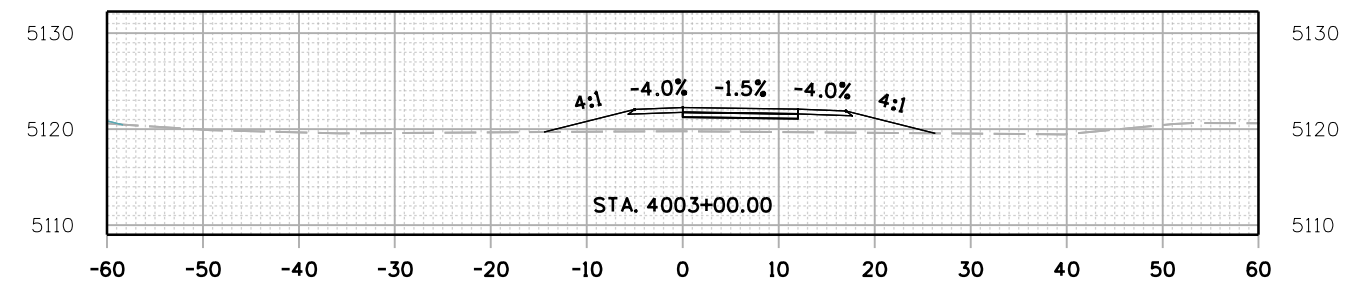
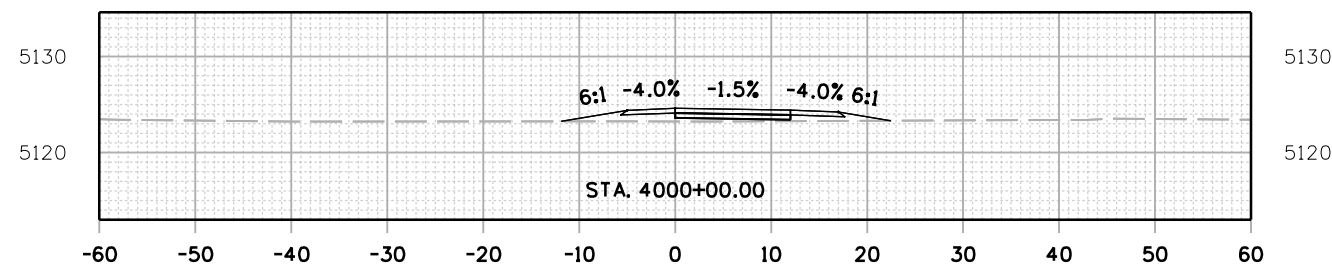
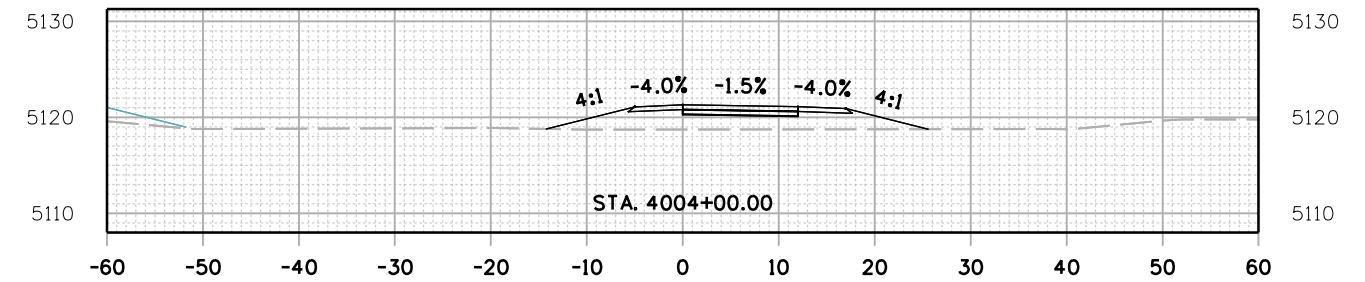
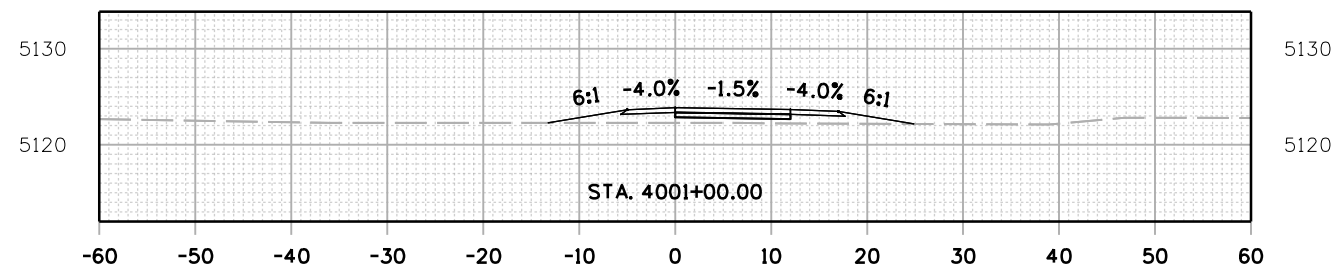
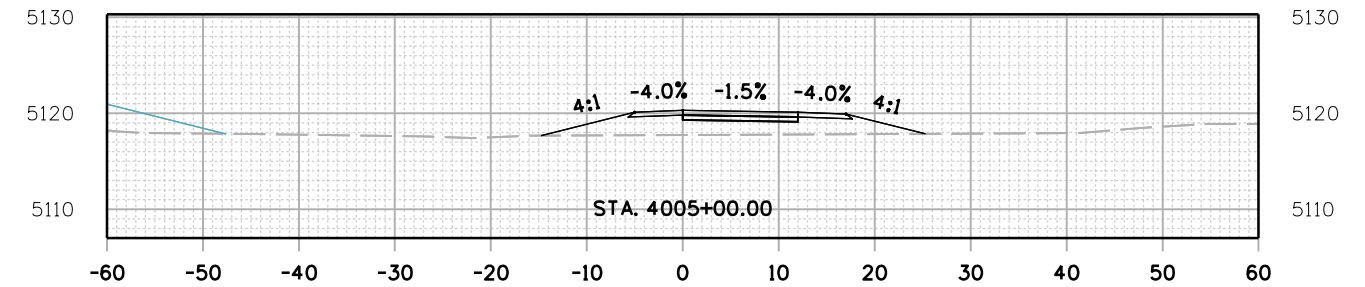
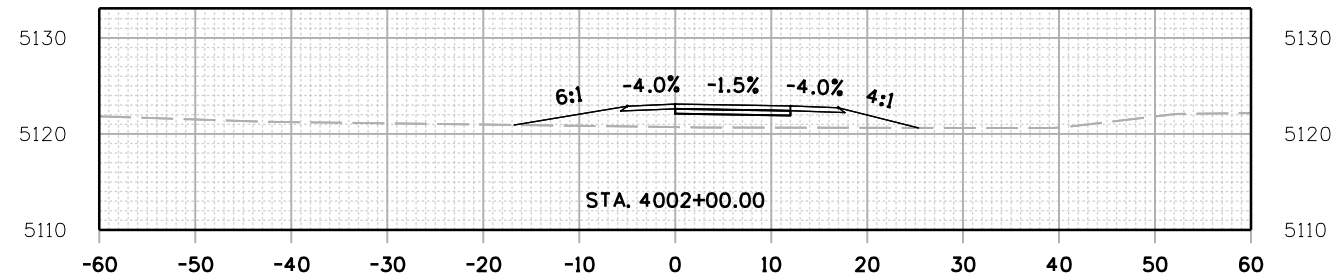


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| CD 119 BIKEWAY CROSS SECTIONS | | | |
| Designer: | RML | Structure Numbers | |
| Detailer: | PDP | | |
| Sheet Subset: | XSEC | Subset Sheets: | 54 of 91 |

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| Project No./Code |
| |
| Sheet Number 236 |

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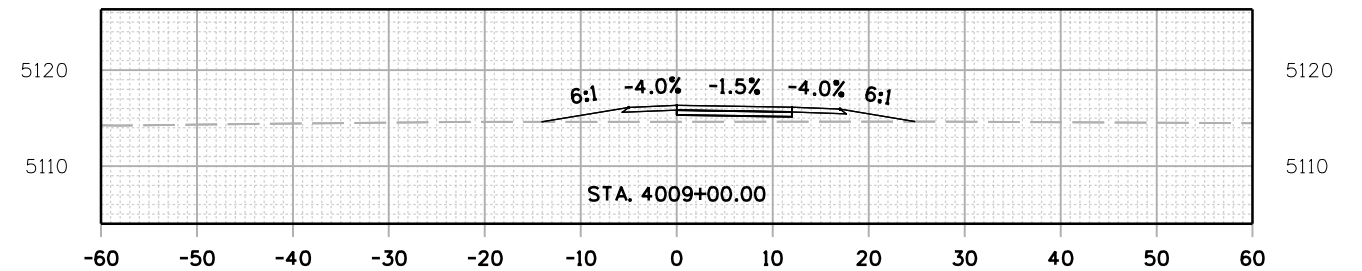
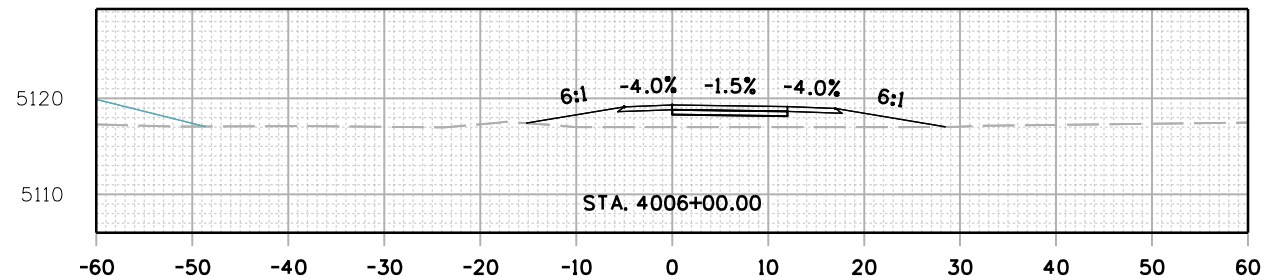
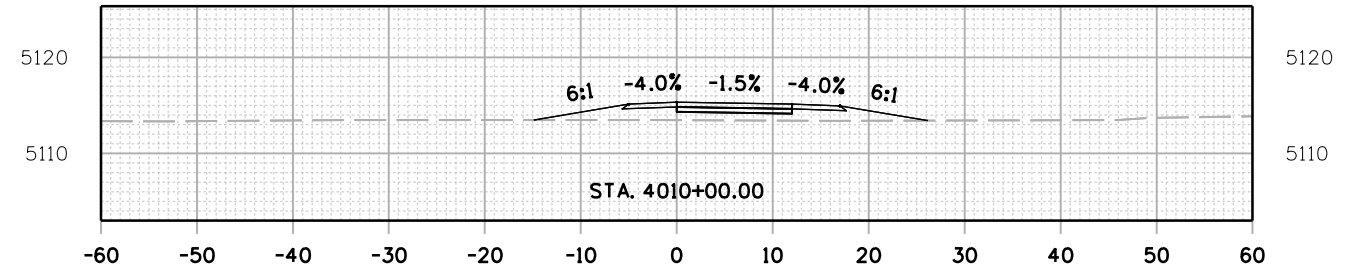
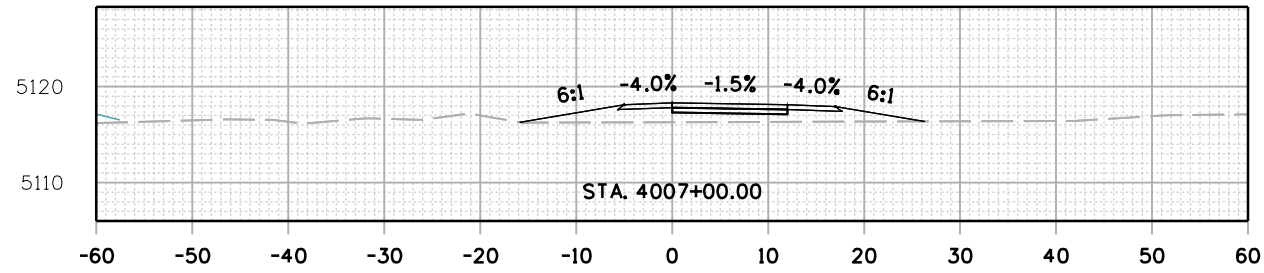
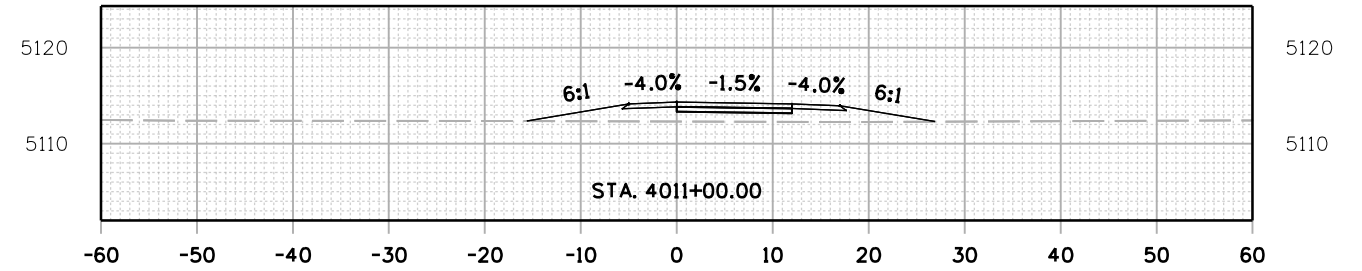
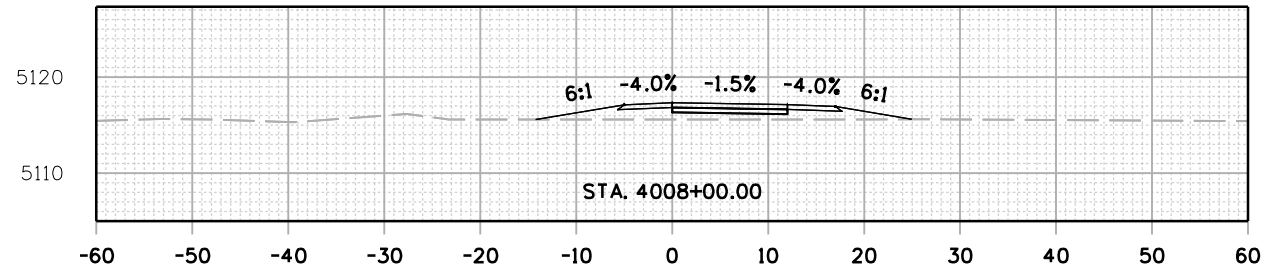
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 Unit Information

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| As Constructed No Revisions: Revised: Void: | CD 119 BIKEWAY CROSS SECTIONS | | | Project No./Code |
| | Designer: | LRN | Structure Numbers | |
| | Detailer: | PDP | | |
| | Sheet Subset: | XSEC | Subset Sheets: 55 of 91 | Sheet Number 237 |

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All seals for this set of drawings are applied to the cover page(s)

Print Date: 28-JUN-2022
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 Horiz. Scale: Vert. Scale: As Noted
 Unit Information

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| Date: | Comments | Init. |
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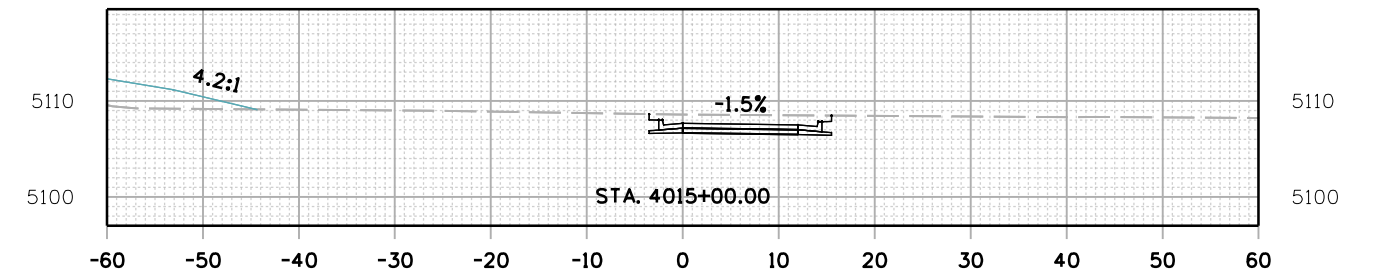
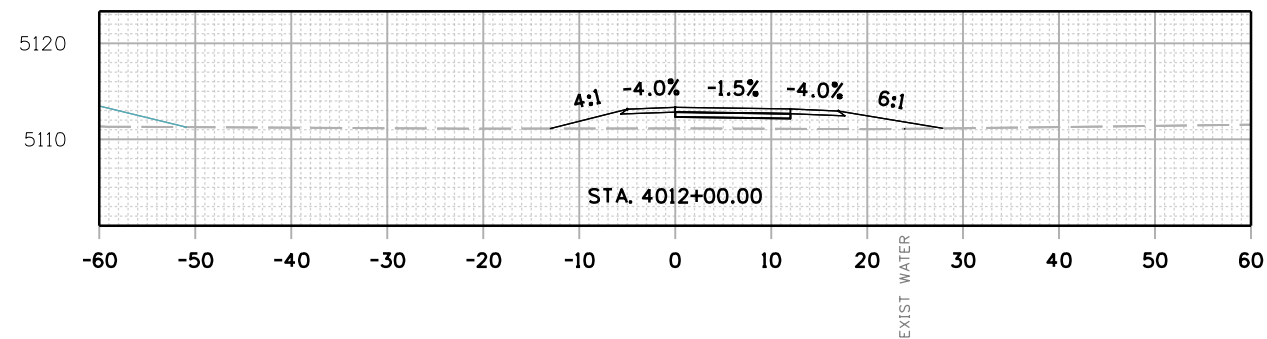
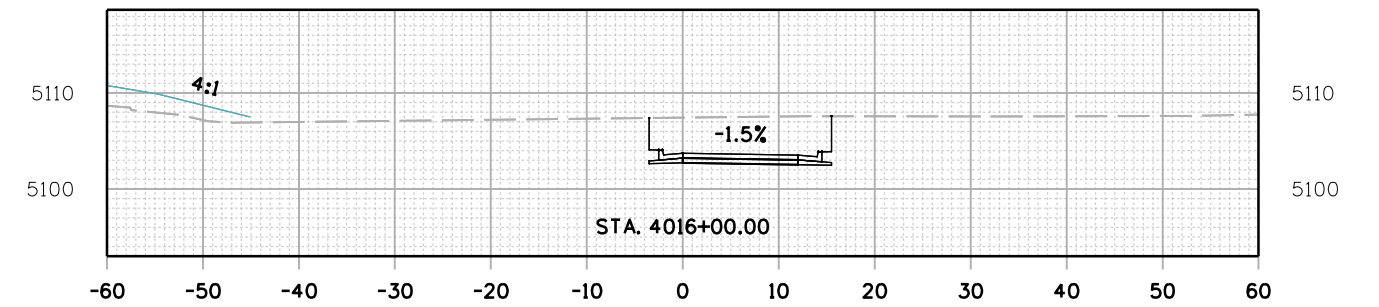
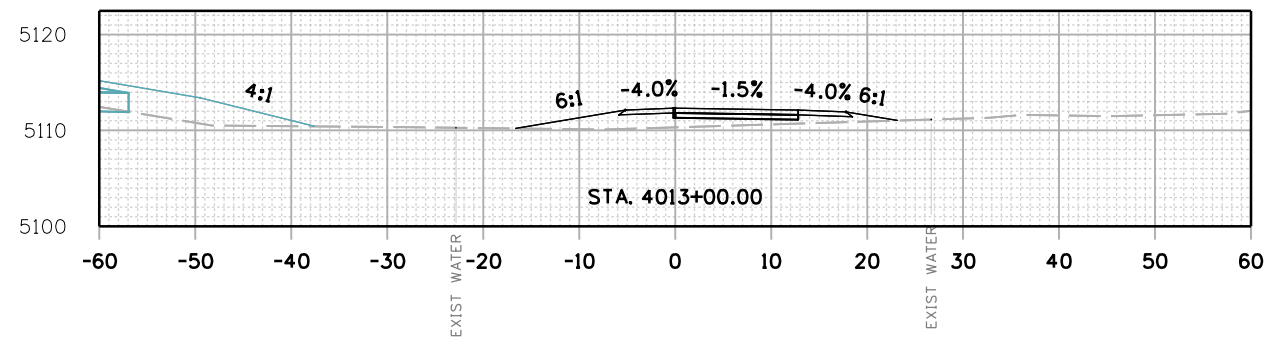
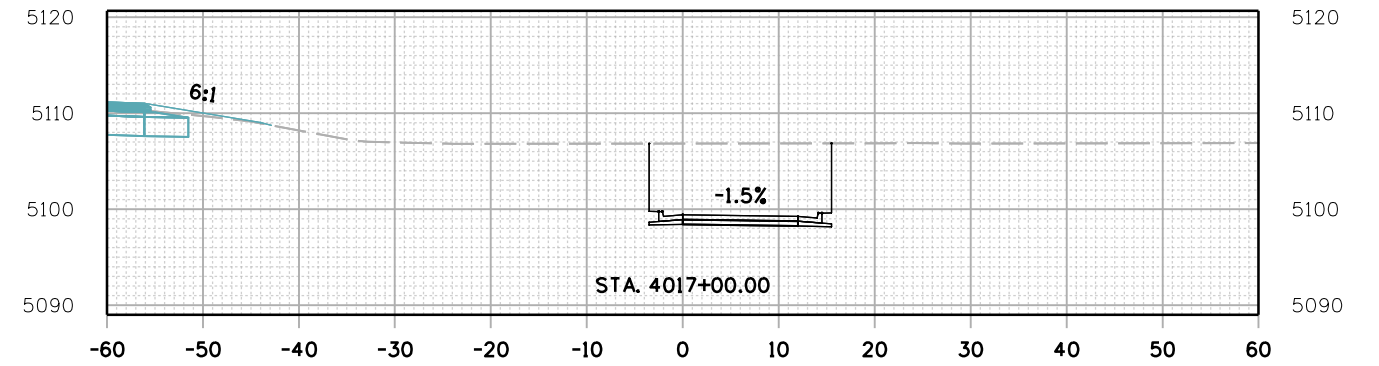
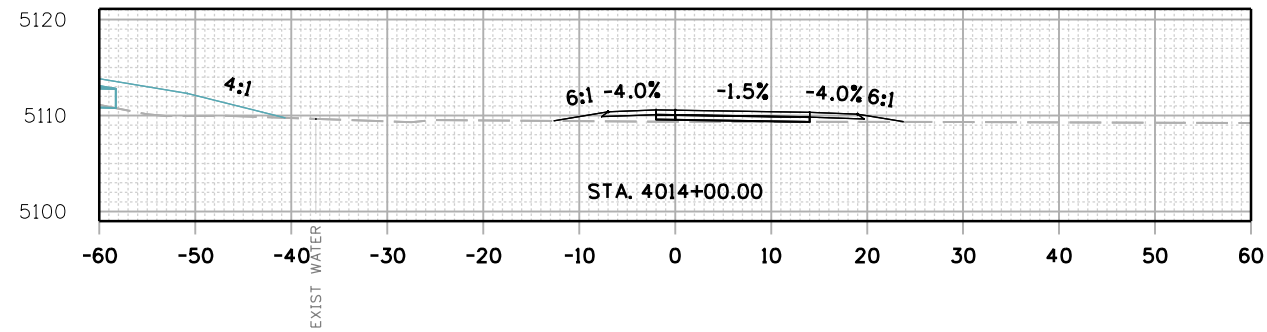


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| CD 119 BIKEWAY CROSS SECTIONS | | | |
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| Designer: | LRN | Structure | Numbers |
| Detailer: | PDP | Subset Sheets: | 56 of 91 |
| Sheet Subset: | XSEC | | |

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| Project No./Code |
| Sheet Number 238 |

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All seals for this set of drawings are applied to the cover page(s)

Print Date: 28-JUN-2022
 File Name: 21015_RD_SHEET_119B(SEG4)_XSEC.dgn
 Horiz. Scale: Vert. Scale: As Noted
 Unit Information
MULLER
 ENGINEERING COMPANY

| Sheet Revisions | | |
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| Date: | Comments | Init. |
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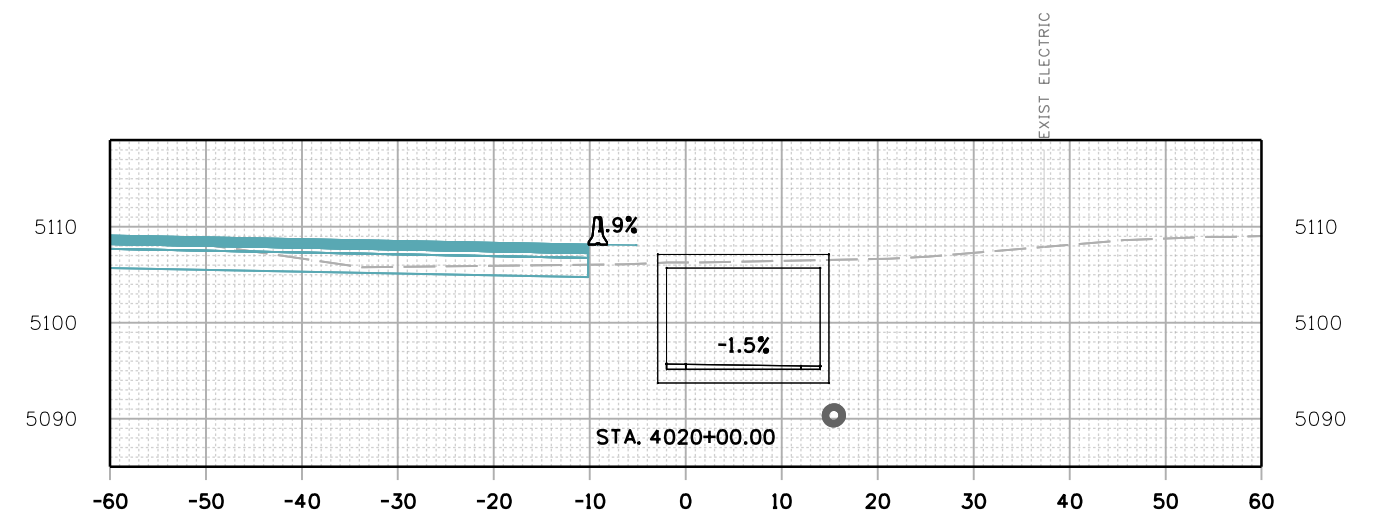
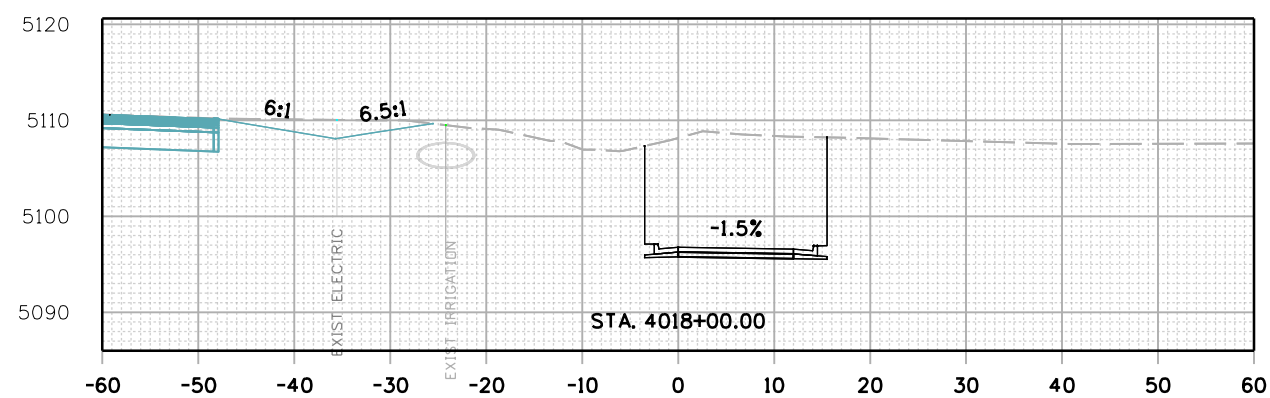
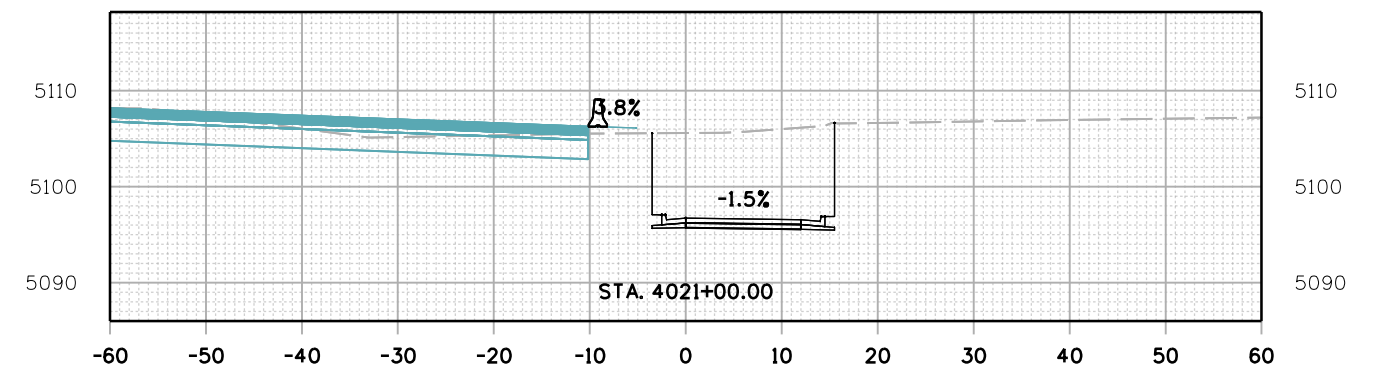
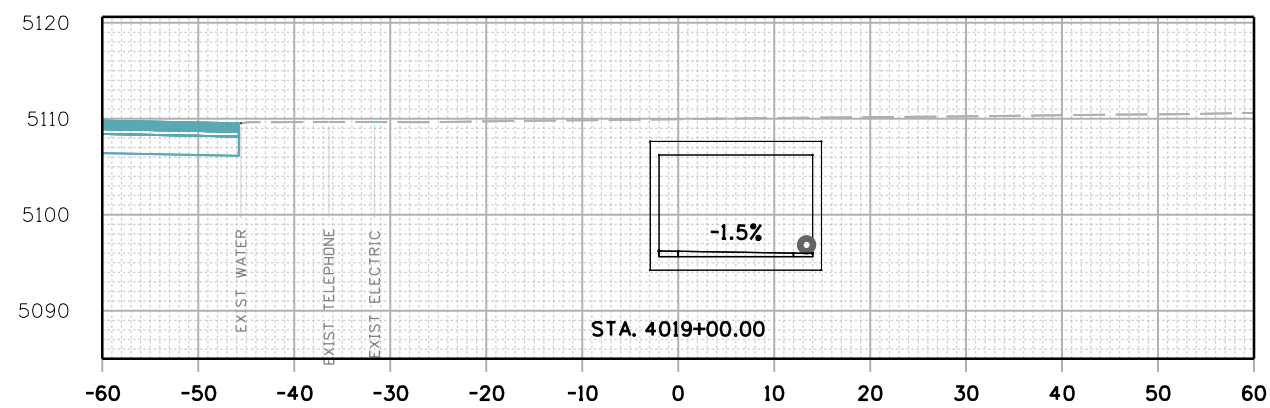


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| As Constructed |
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| Void: |

| CD 119 BIKEWAY CROSS SECTIONS | | | |
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| Designer: | LRN | Structure | |
| Detailer: | PDP | Numbers | |
| Sheet Subset: | XSEC | Subset Sheets: | 57 of 91 |

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| Project No./Code |
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| Sheet Number 239 |

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All seals for this set of drawings are applied to the cover page(s)

Print Date: 28-JUN-2022
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 Horiz. Scale: Vert. Scale: As Noted
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| Sheet Revisions | | |
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| Date: | Comments | Init. |
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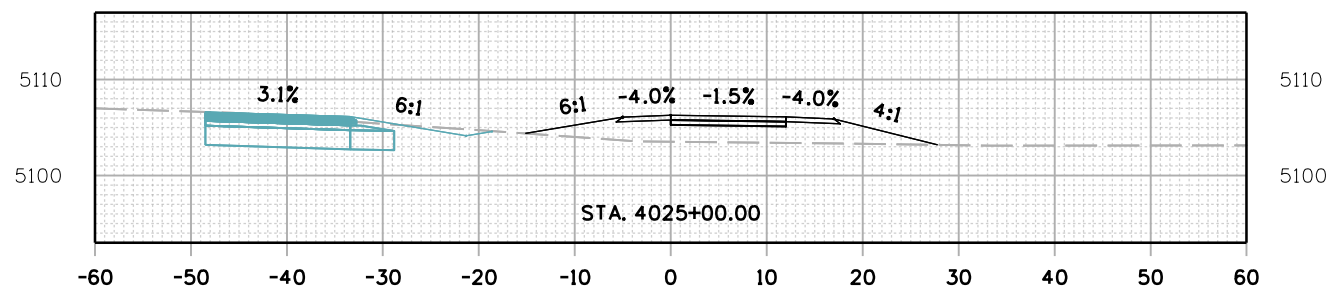
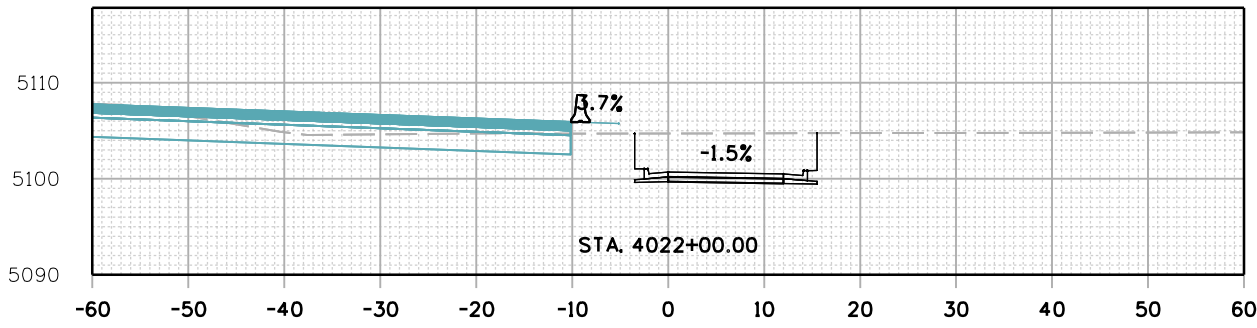
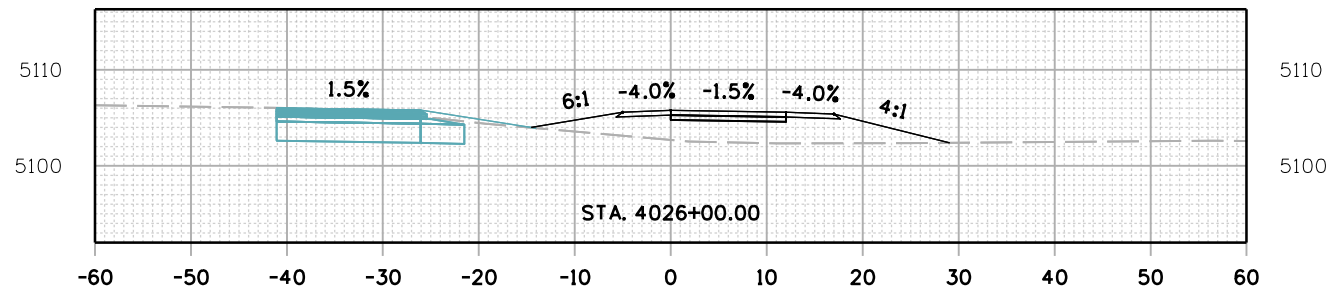
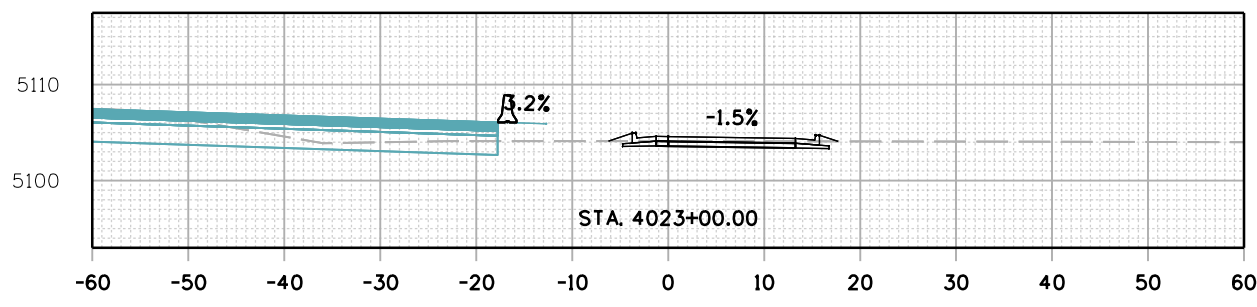
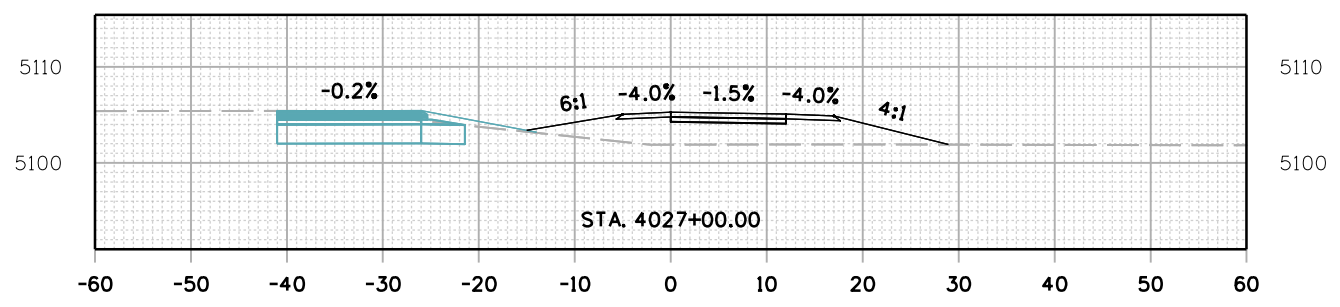
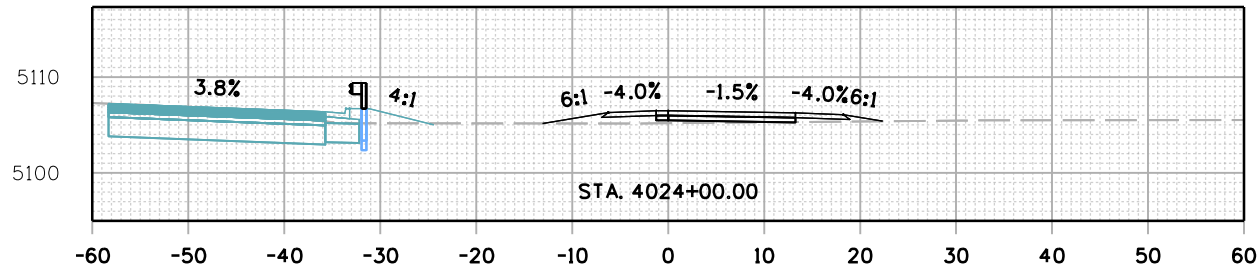


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| As Constructed |
| No Revisions: |
| Revised: |
| Void: |

| CD 119 BIKEWAY CROSS SECTIONS | | | |
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| Designer: | LRN | Structure | Numbers |
| Detailer: | PDP | Subset Sheets: | 58 of 91 |
| Sheet Subset: | XSEC | | |

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| Project No./Code |
| Sheet Number 240 |

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All seals for this set of drawings are applied to the cover page(s)

Print Date: 28-JUN-2022
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| Date: | Comments | Init. |
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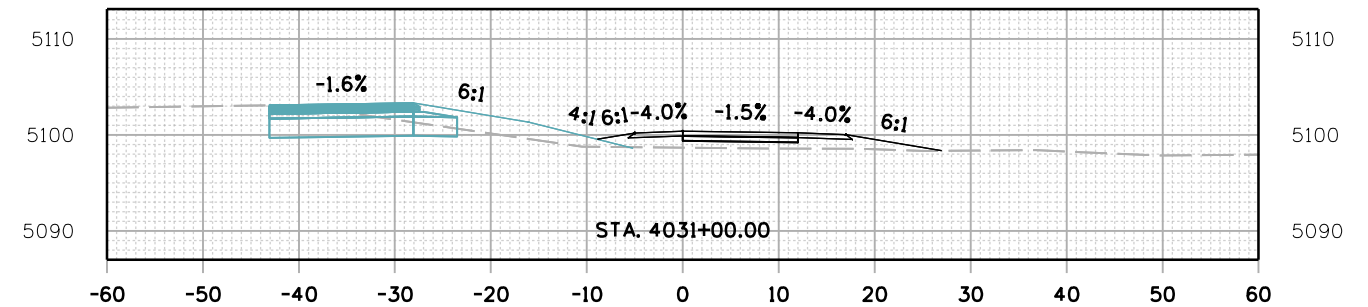
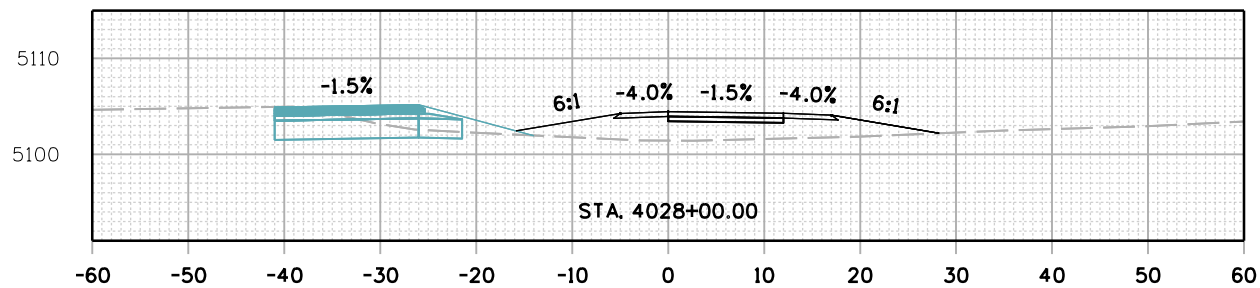
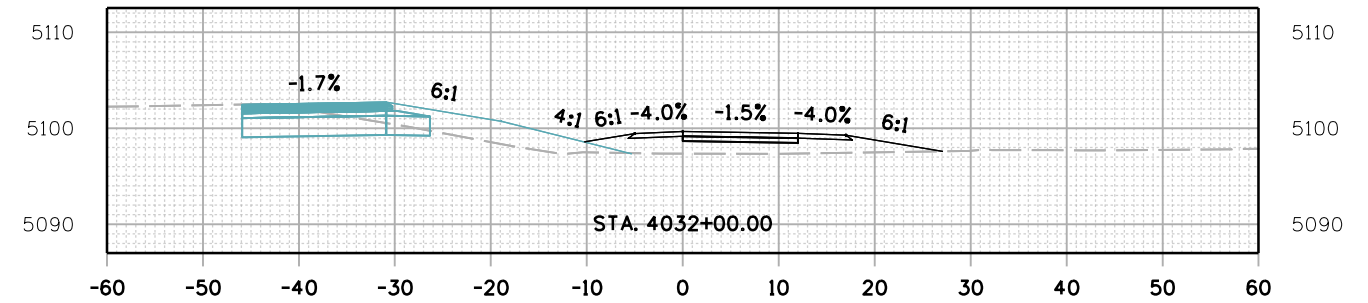
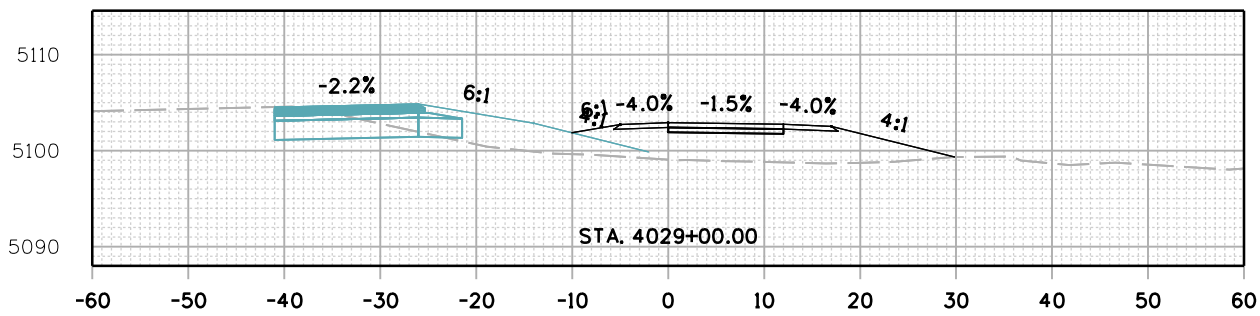
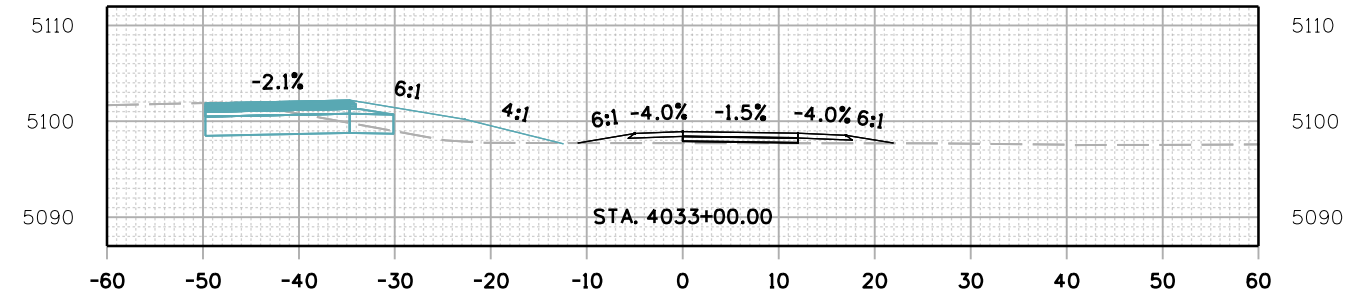
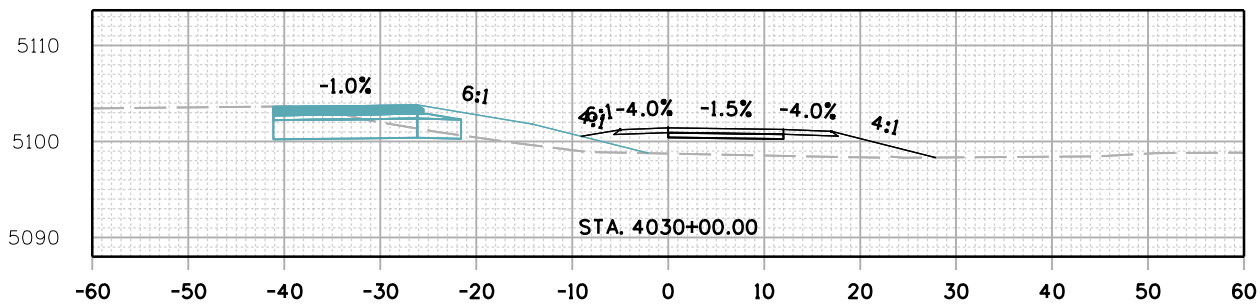


As Constructed
 No Revisions:
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 Void:

| CD 119 BIKEWAY CROSS SECTIONS | | | |
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| Designer: | LRN | Structure | Numbers |
| Detailer: | PDP | Subset Sheets: | 59 of 91 |
| Sheet Subset: | XSEC | | |

Project No./Code
 Sheet Number 241

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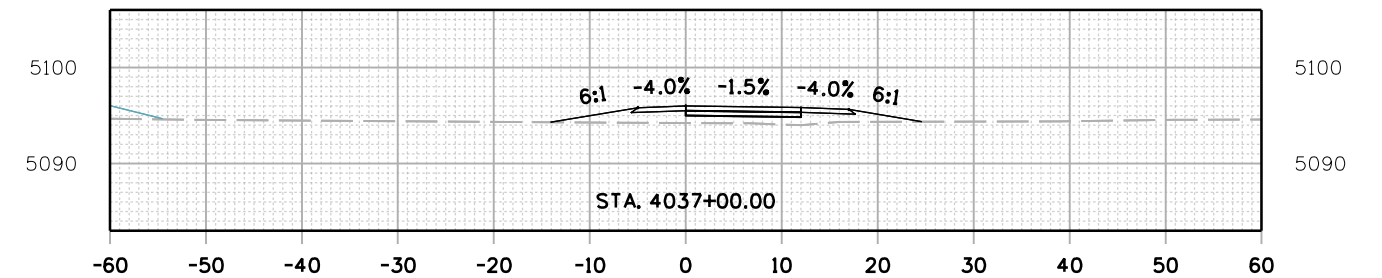
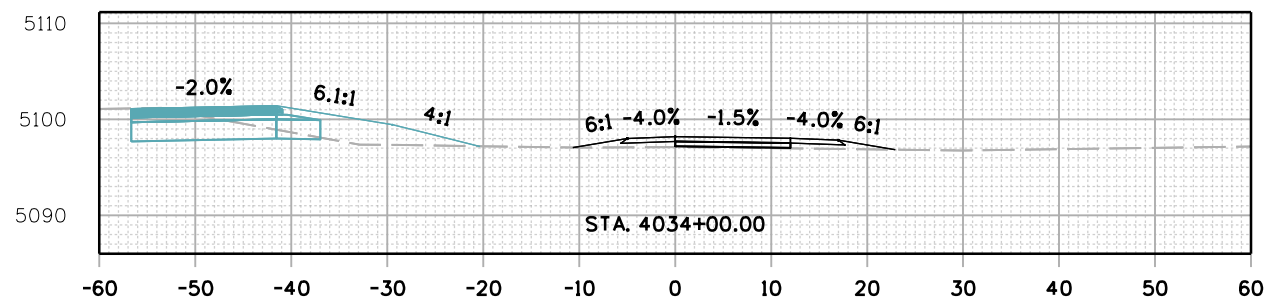
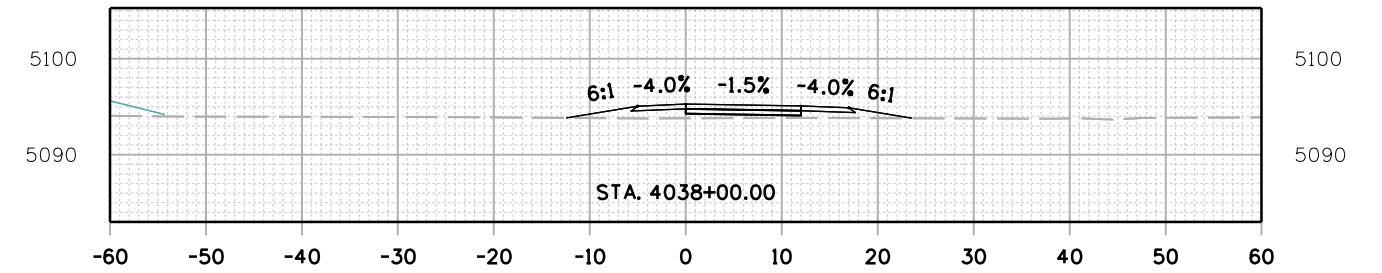
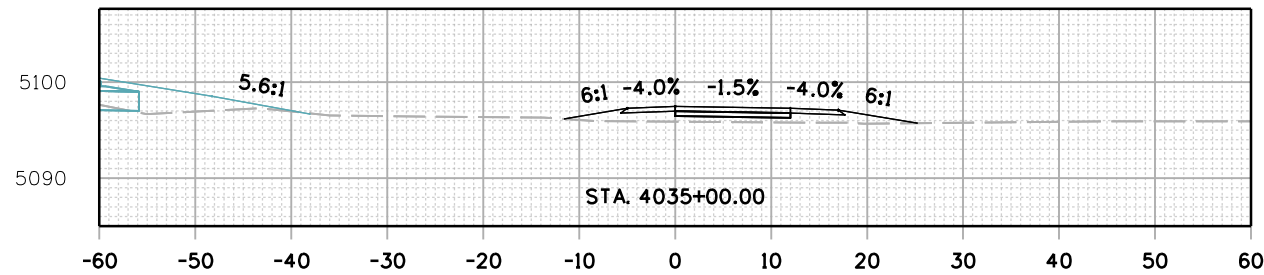
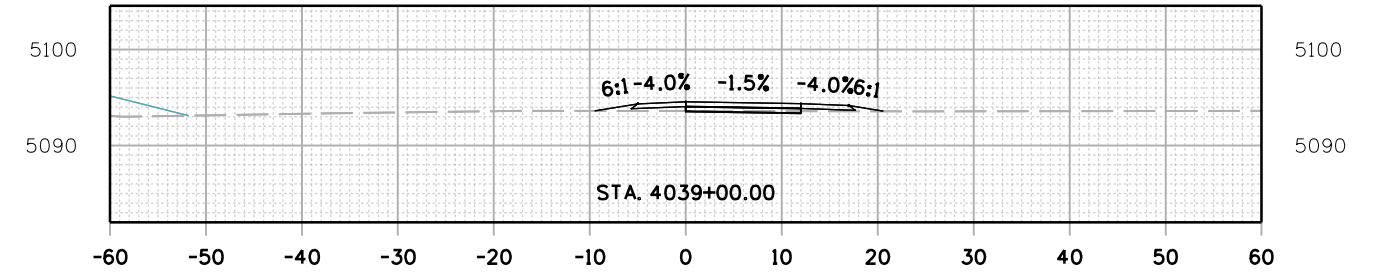
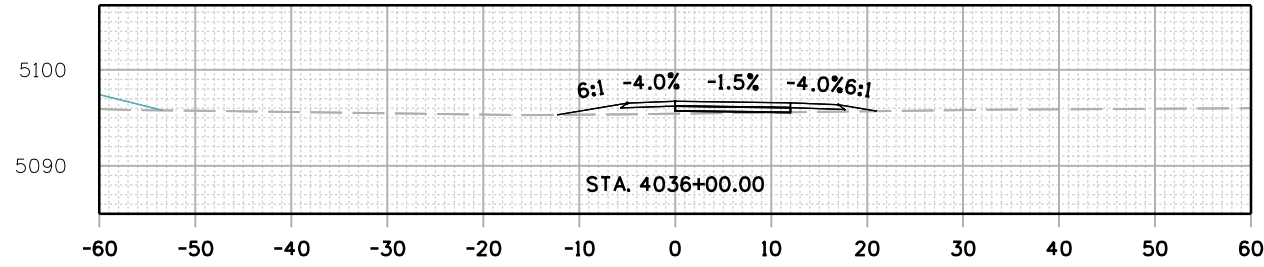
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 Unit Information

| Sheet Revisions | | |
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| As Constructed | | CD 119 BIKEWAY CROSS SECTIONS | | | Project No./Code |
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| No Revisions: | | | | | |
| Revised: | | Designer: | LRN | Structure Numbers | |
| Void: | | Detailer: | PDP | | |
| | | Sheet Subset: | XSEC | Subset Sheets: 60 of 91 | Sheet Number 242 |

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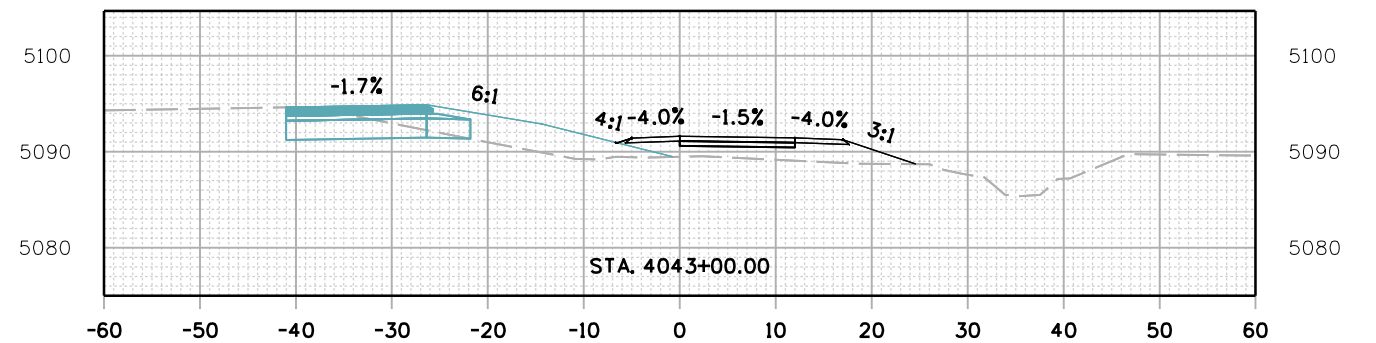
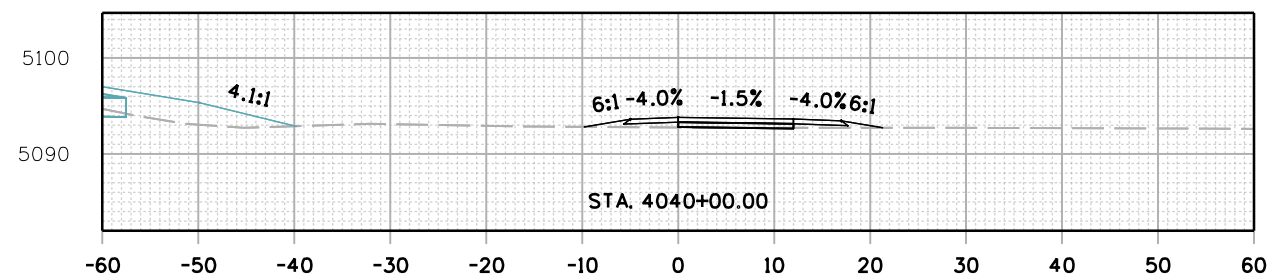
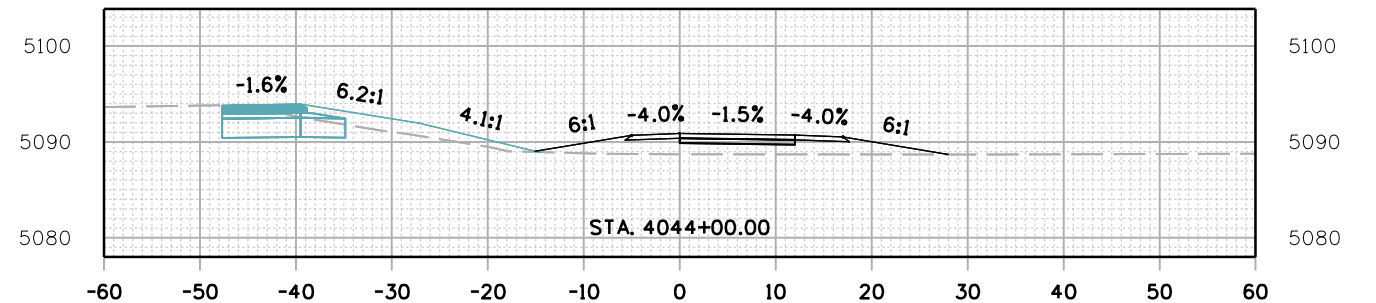
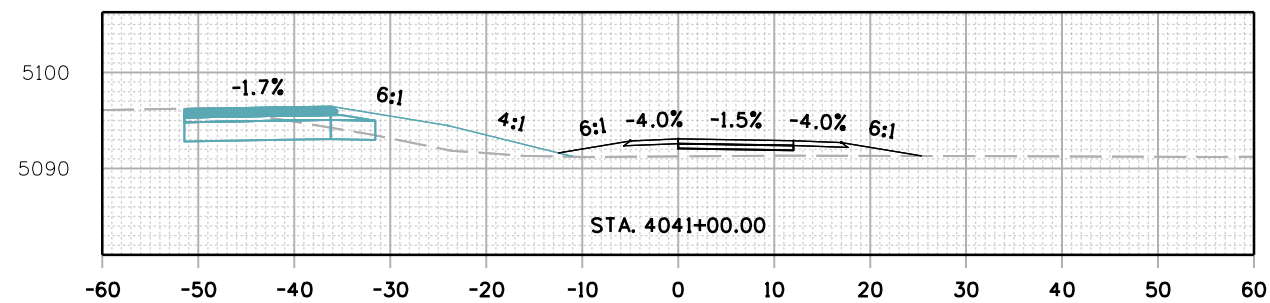
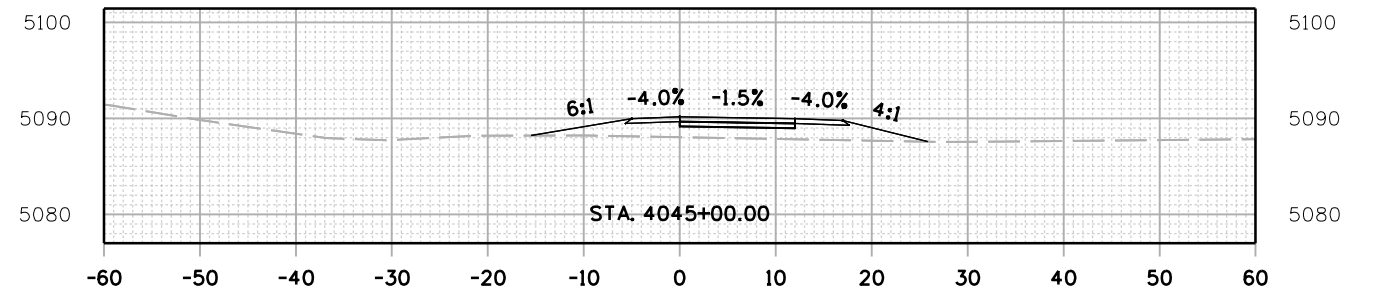
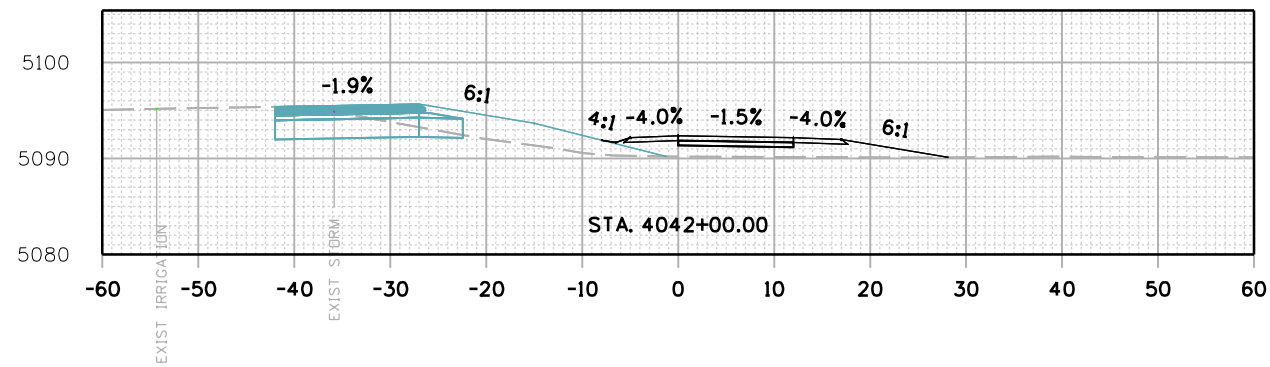
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| As Constructed | | CD 119 BIKEWAY CROSS SECTIONS | | | Project No./Code |
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| No Revisions: | | | | | |
| Revised: | | Designer: LRN | Structure Numbers | | |
| Void: | | Detailer: PDP | | | |
| | | Sheet Subset: XSEC | Subset Sheets: 61 of 91 | | Sheet Number 243 |

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All seals for this set of drawings are applied to the cover page(s)

Print Date: 28-JUN-2022
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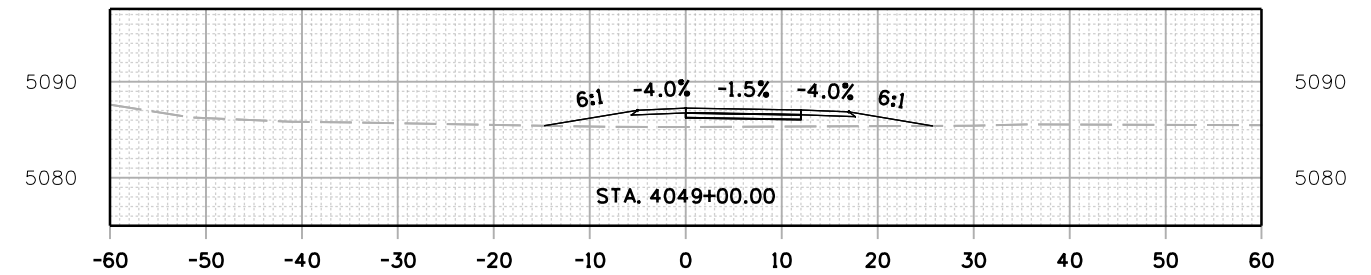
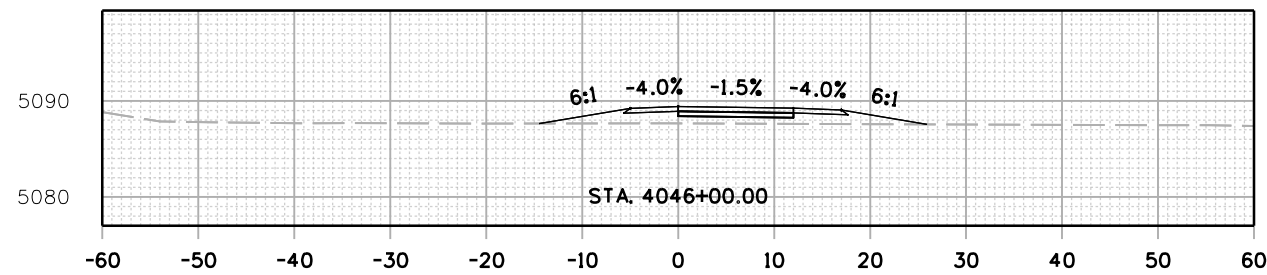
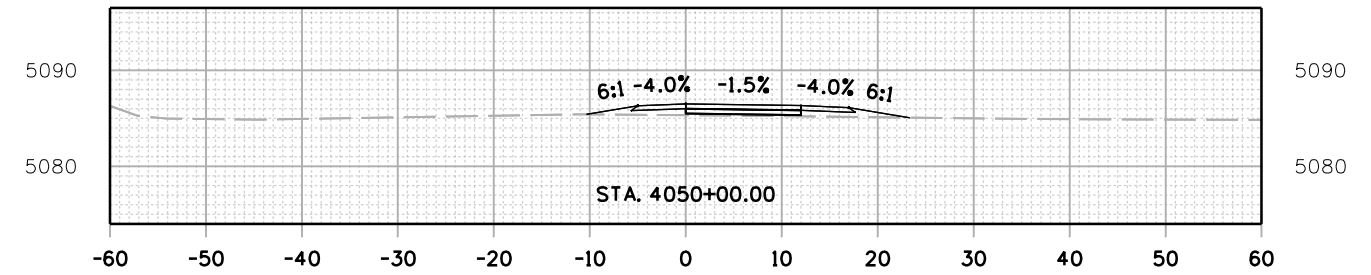
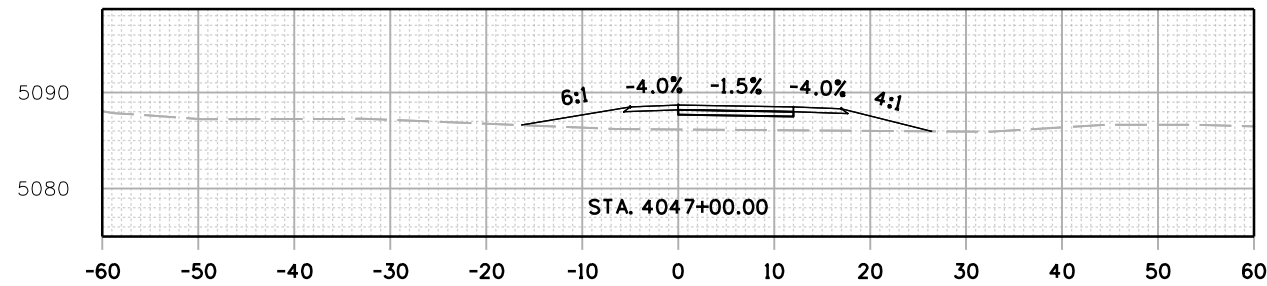
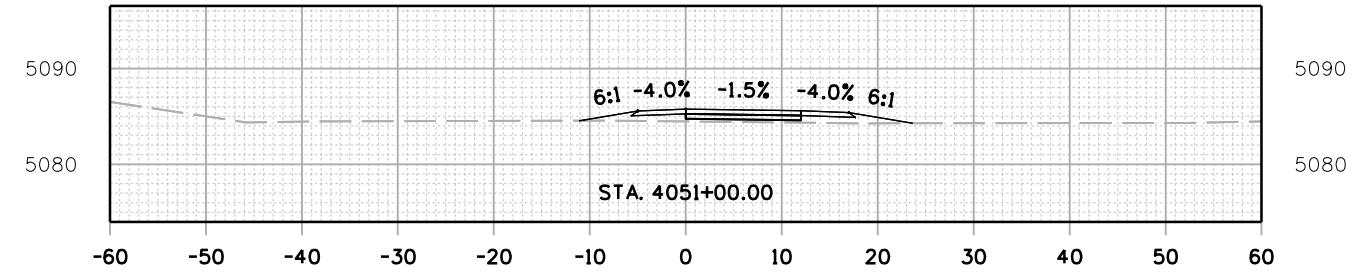
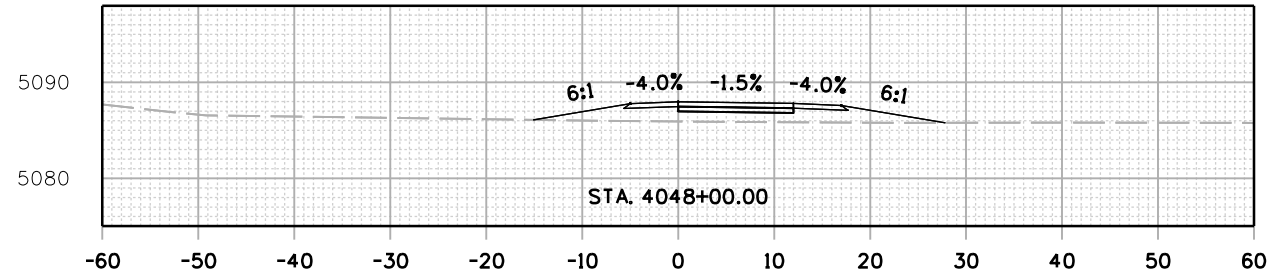


As Constructed
 No Revisions:
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| CD 119 BIKEWAY CROSS SECTIONS | | | |
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| Designer: | LRN | Structure | Numbers |
| Detailer: | PDP | Subset Sheets: | 62 of 91 |
| Sheet Subset: | XSEC | | |

Project No./Code
 Sheet Number 244

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All seals for this set of drawings are applied to the cover page(s)

Print Date: 28-JUN-2022
 File Name: 21015_RD_SHEET_119B(SEG4)_XSEC.dgn
 Horiz. Scale: Vert. Scale: As Noted
 Unit Information
MULLER
 ENGINEERING COMPANY

| Sheet Revisions | | |
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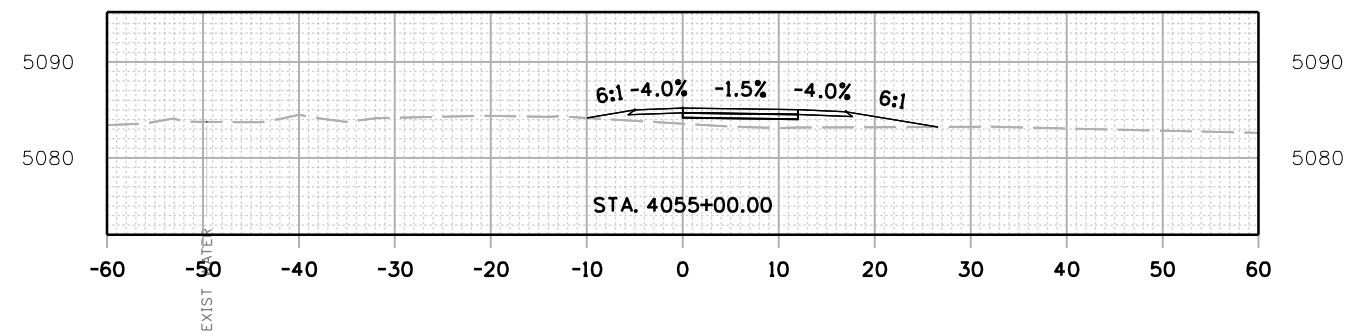
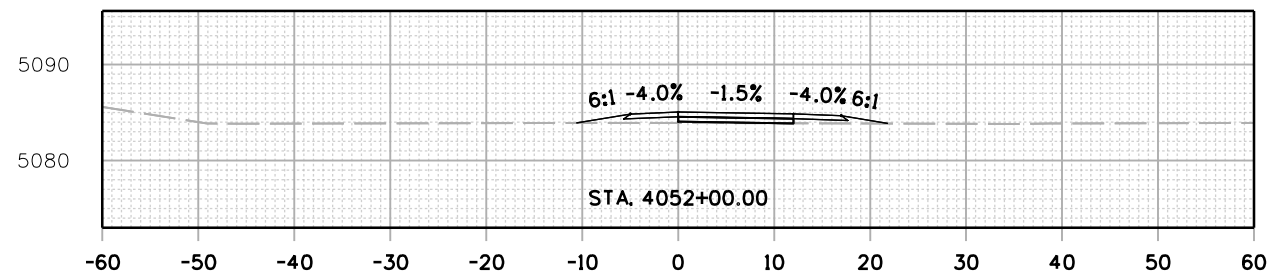
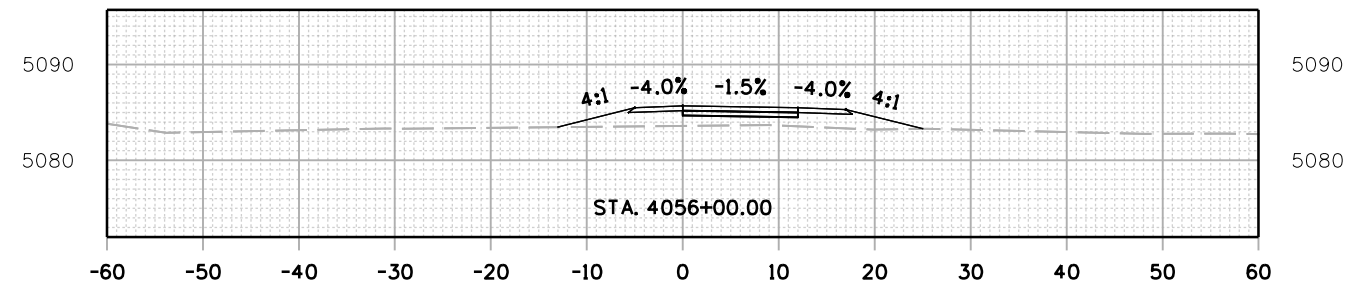
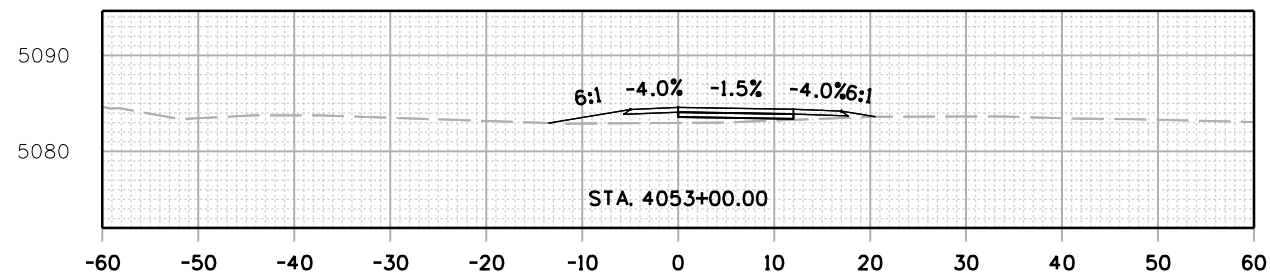
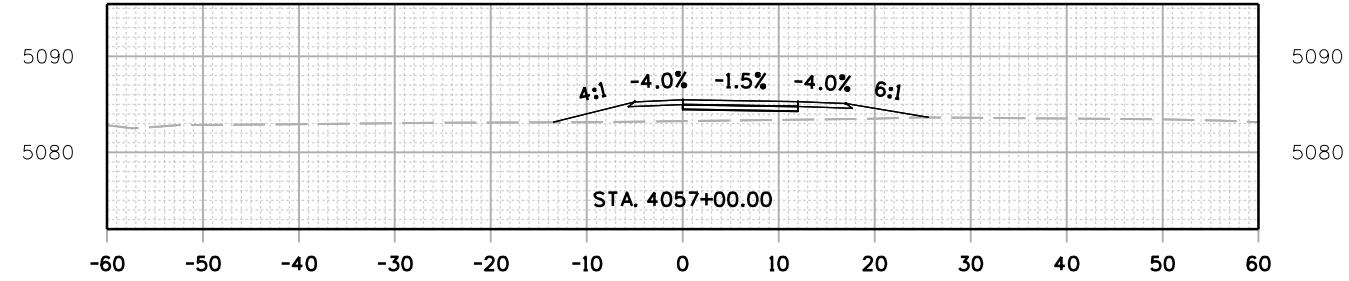
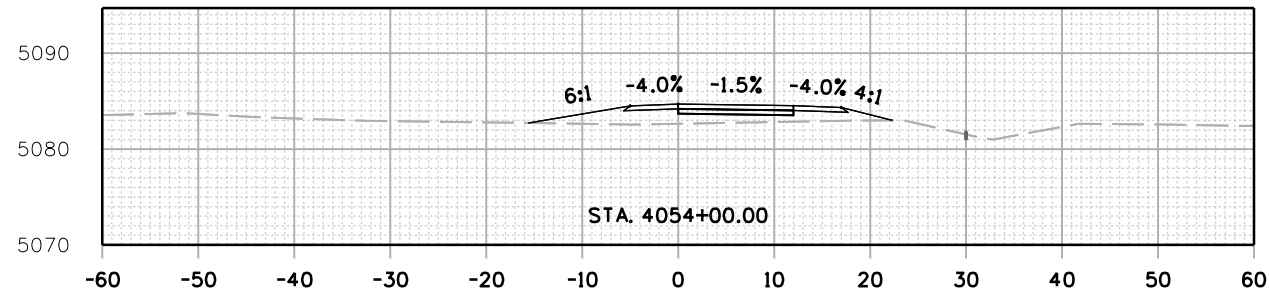


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| No Revisions: |
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| CD 119 BIKEWAY CROSS SECTIONS | | | |
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| Designer: | LRN | Structure | Numbers |
| Detailer: | PDP | Structure | Numbers |
| Sheet Subset: | XSEC | Subset Sheets: | 63 of 91 |

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| Project No./Code |
| Sheet Number 245 |

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All seals for this set of drawings are applied to the cover page(s)

Print Date: 28-JUN-2022
 File Name: 21015_RD_SHEET_119BW(SEG4)_XSEC.dgn
 Horiz. Scale: Vert. Scale: As Noted
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| Sheet Revisions | | |
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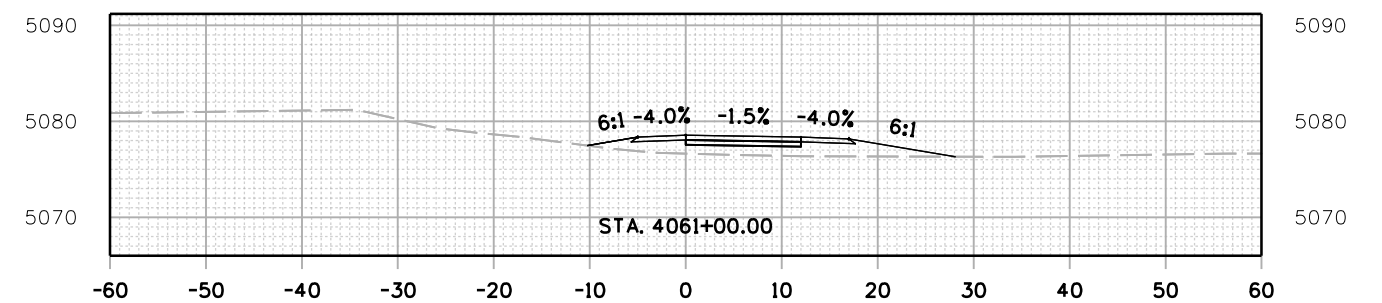
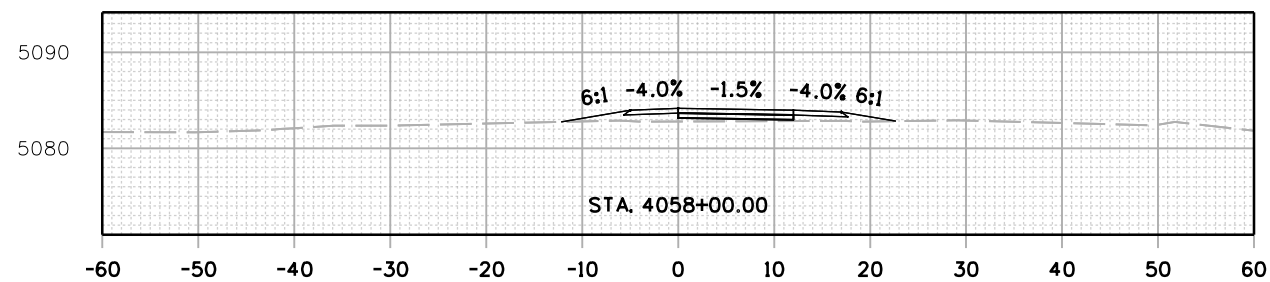
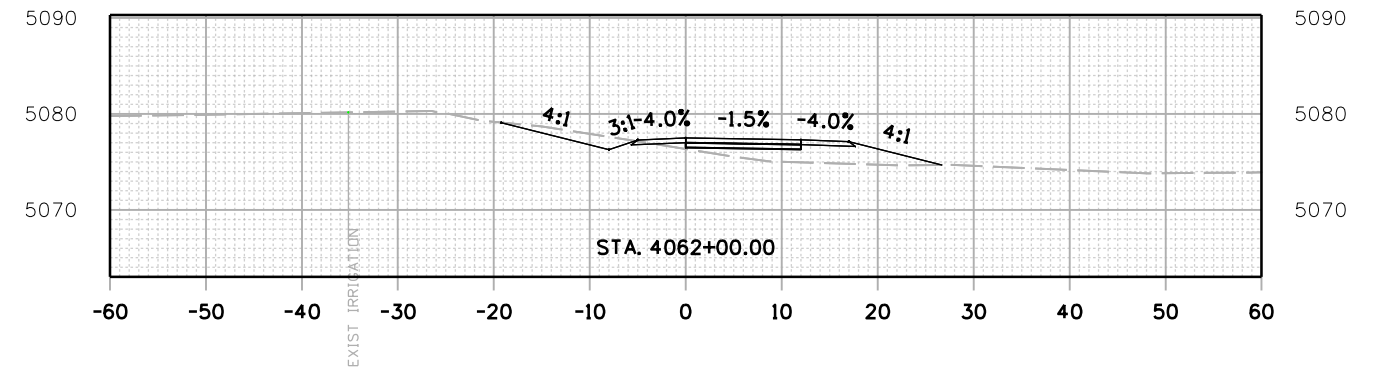
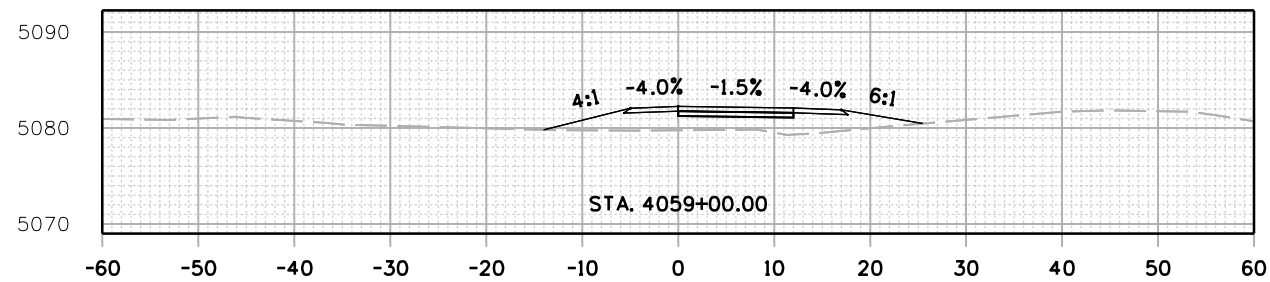
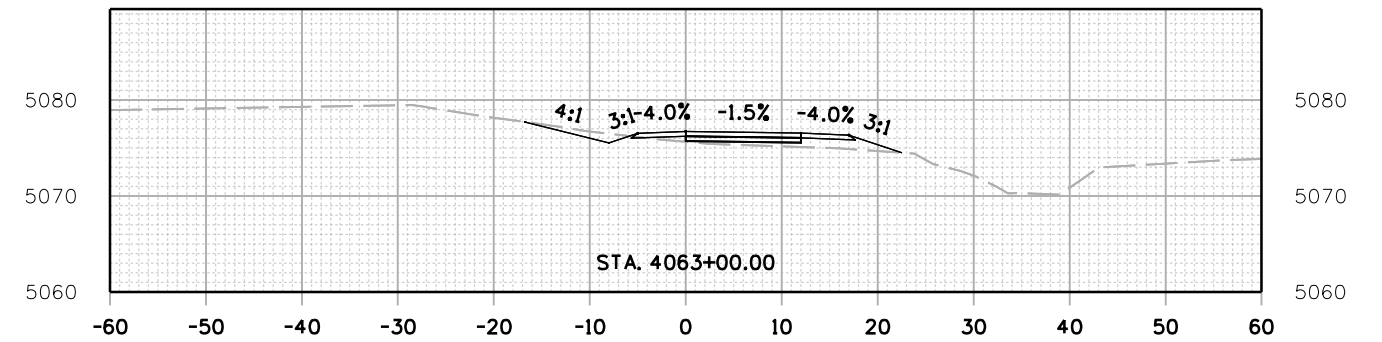
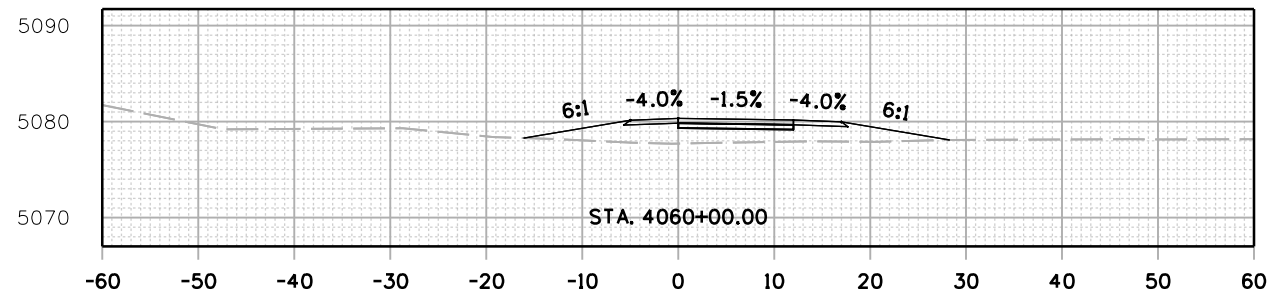


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| As Constructed |
| No Revisions: |
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| Void: |

| CD 119 BIKEWAY CROSS SECTIONS | | | |
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| Designer: | LRN | Structure | Numbers |
| Detailer: | PDP | Subset Sheets: | 64 of 91 |
| Sheet Subset: | XSEC | | |

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| Project No./Code |
| Sheet Number 246 |

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All seals for this set of drawings are applied to the cover page(s)

Print Date: 28-JUN-2022
 File Name: 21015_RD_SHEET_119BW(SEG4)_XSEC.dgn
 Horiz. Scale: Vert. Scale: As Noted
 Unit Information

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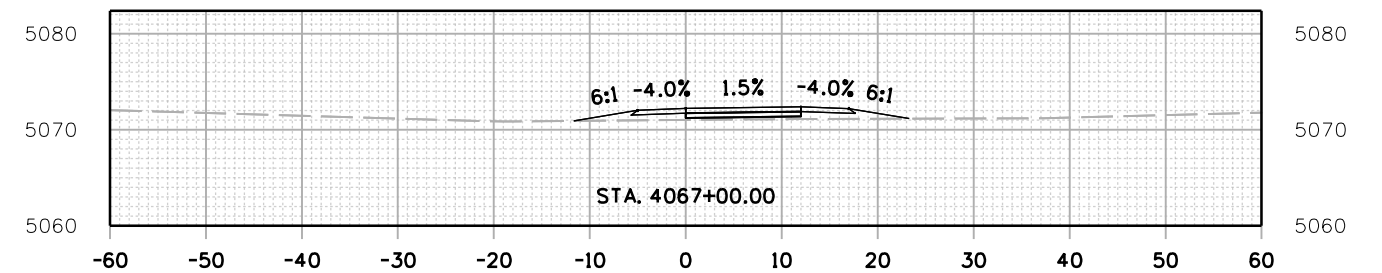
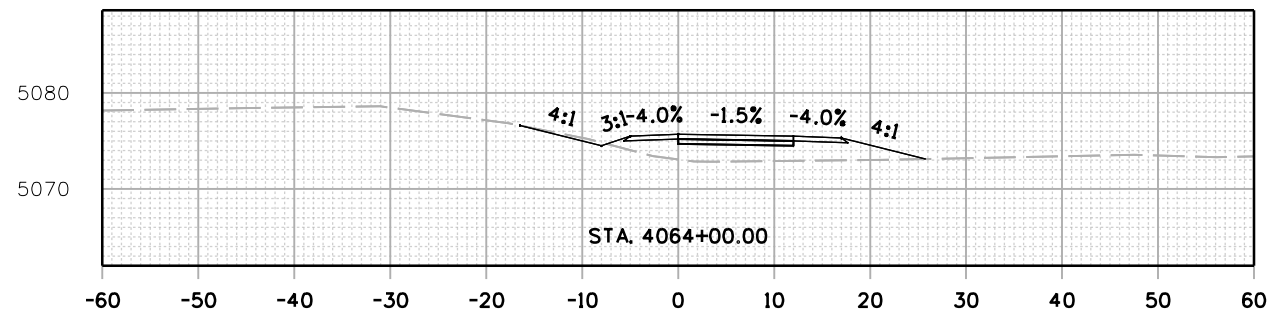
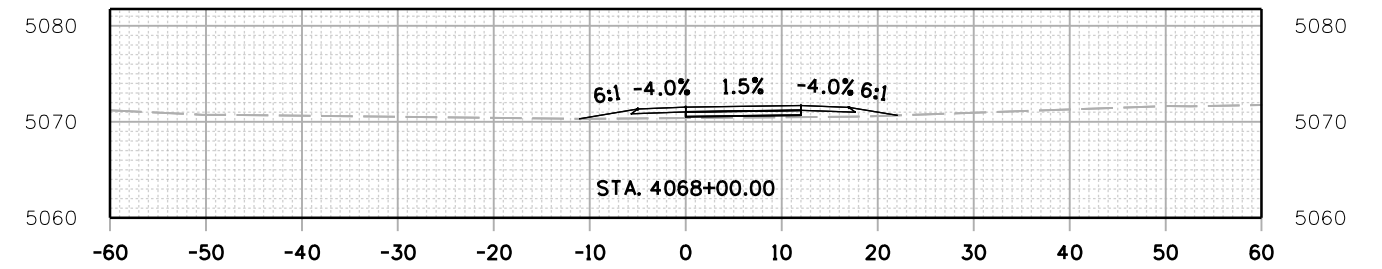
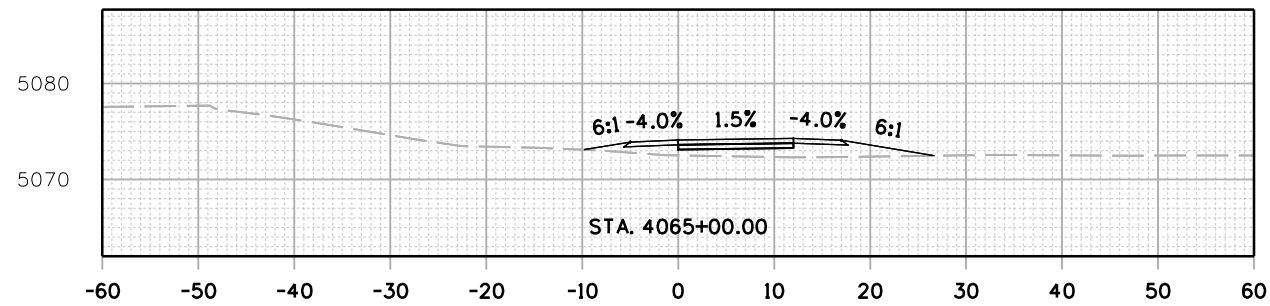
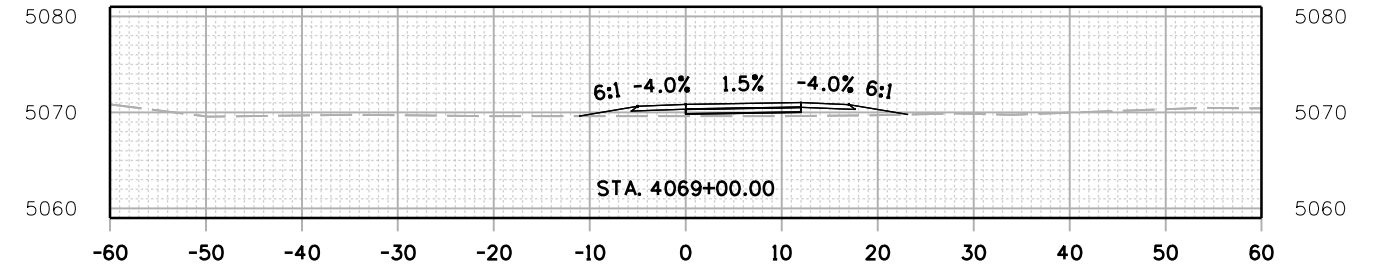
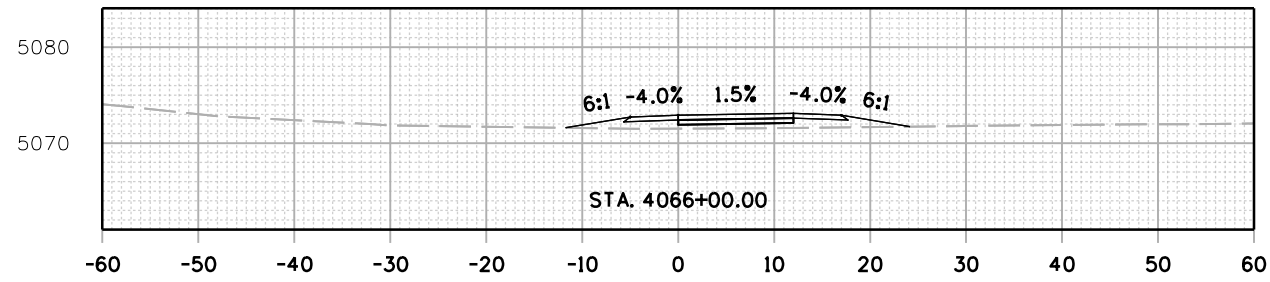


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| As Constructed |
| No Revisions: |
| Revised: |
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| CD 119 BIKEWAY CROSS SECTIONS | | | |
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| Designer: | LRN | Structure | |
| Detailer: | PDP | Numbers | |
| Sheet Subset: | XSEC | Subset Sheets: | 65 of 91 |

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| Project No./Code |
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| Sheet Number 247 |

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All seals for this set of drawings are applied to the cover page(s)

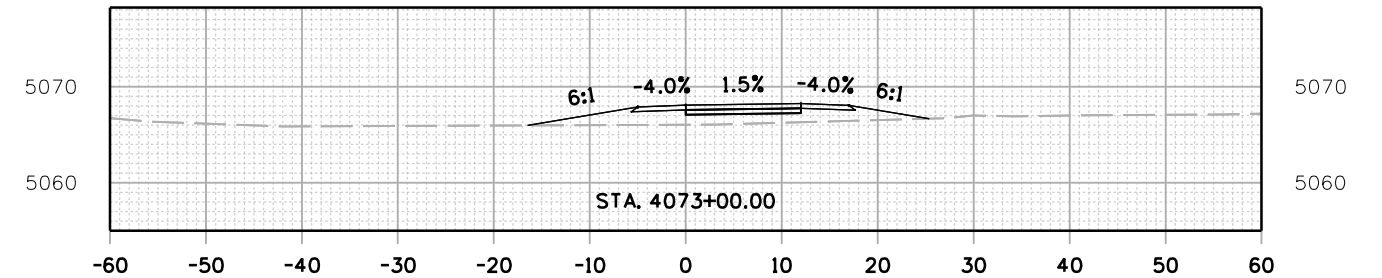
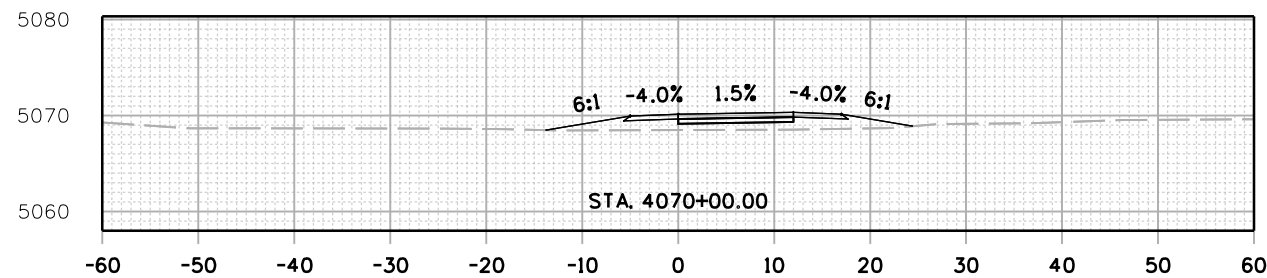
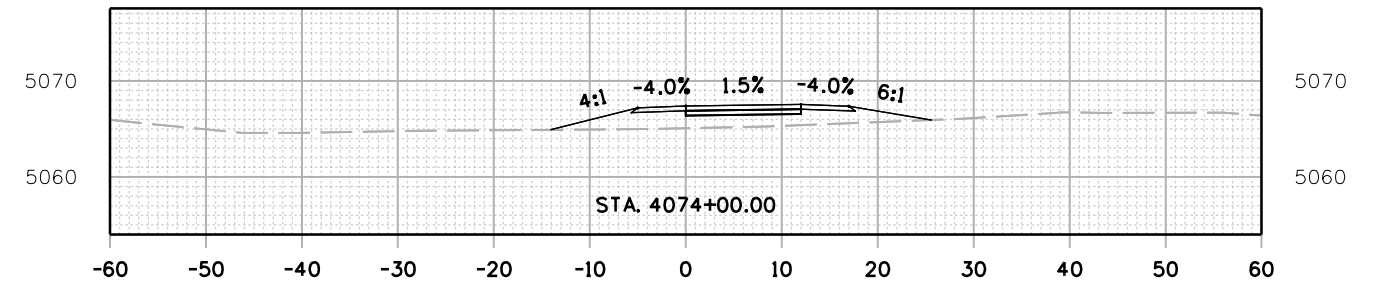
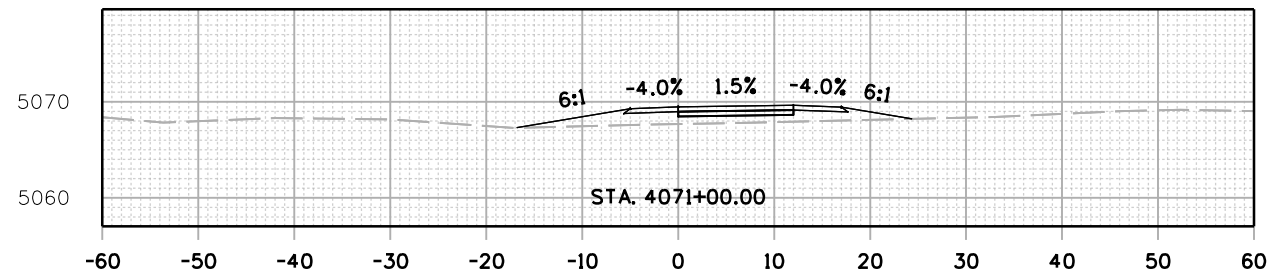
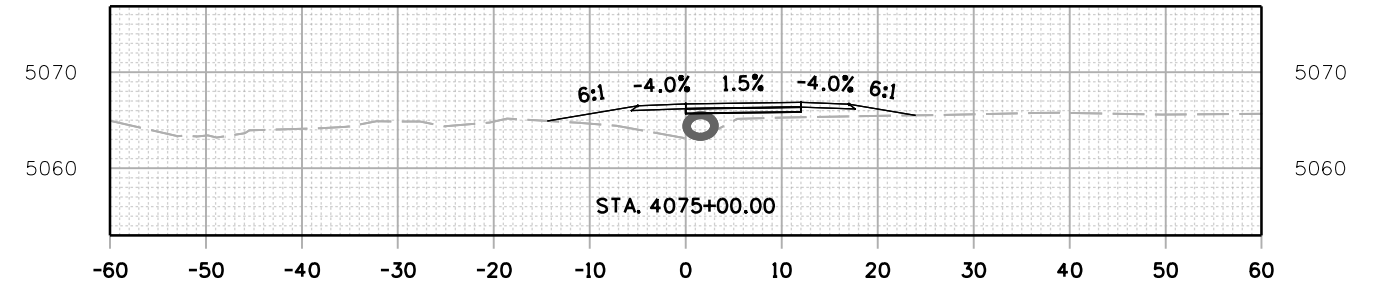
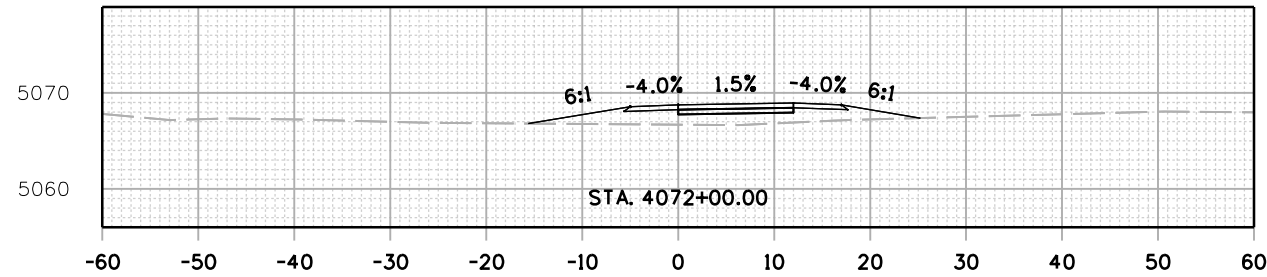
Print Date: 28-JUN-2022
 File Name: 21015_RD_SHEET_119BW(SEG4)_XSEC.dgn
 Horiz. Scale: Vert. Scale: As Noted
 Unit Information
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| | Designer: | LRN | Structure | |
| | Detailer: | PDP | Numbers | |
| | Sheet Subset: | XSEC | Subset Sheets: | 66 of 91 |
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All seals for this set of drawings are applied to the cover page(s)

Print Date: 28-JUN-2022
 File Name: 21015_RD_SHEET_119BW(SEG4)_XSEC.dgn
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 Unit Information

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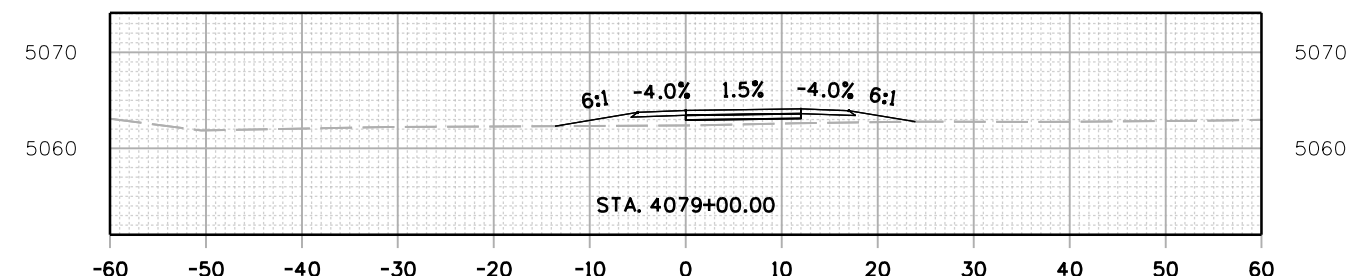
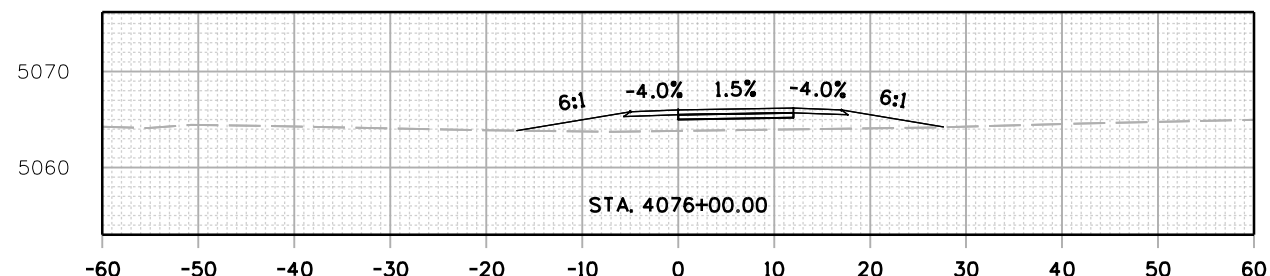
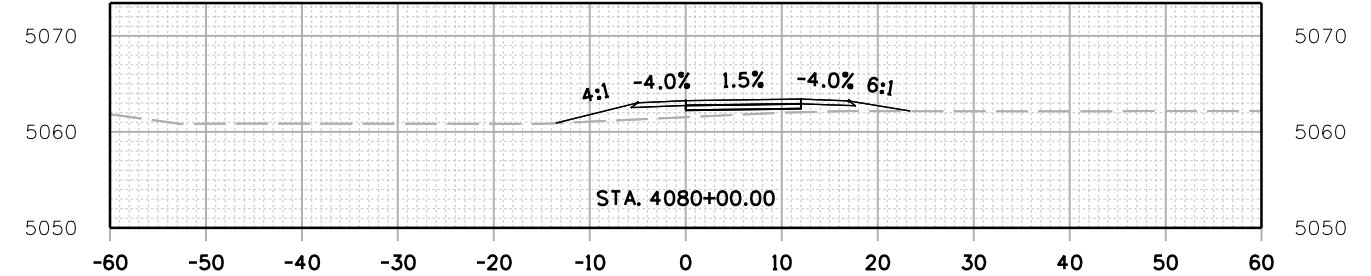
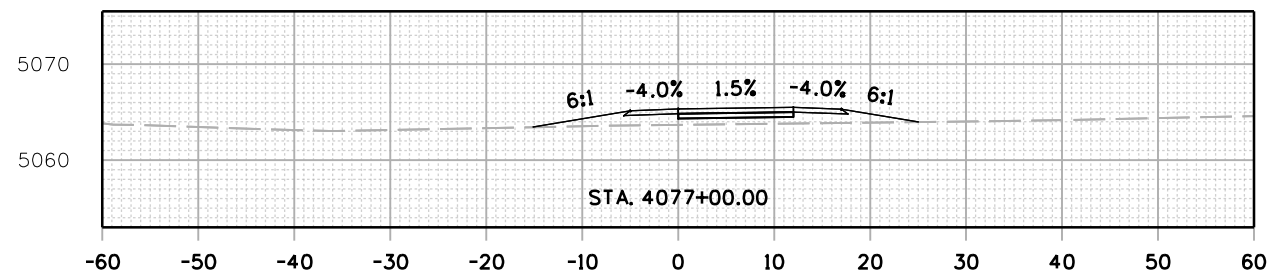
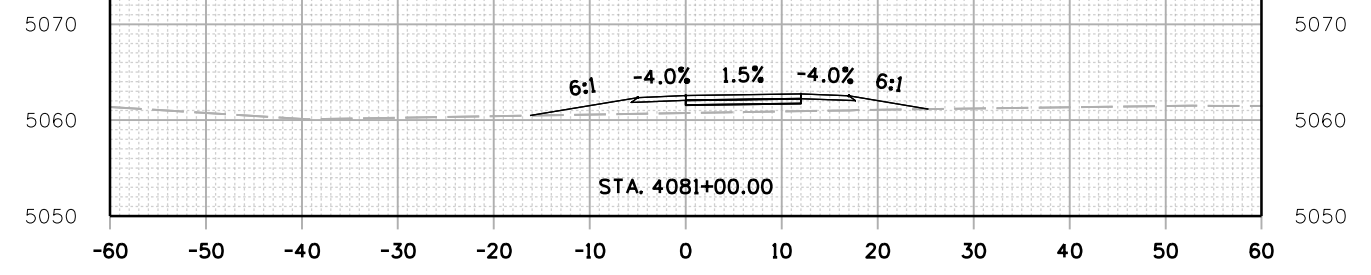
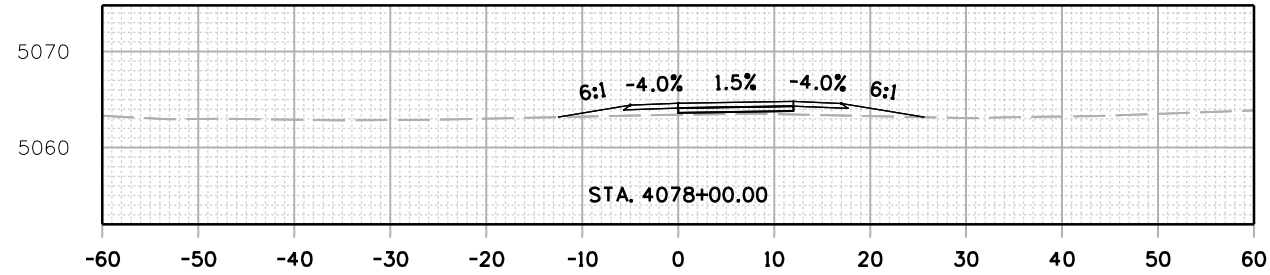


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| CD 119 BIKEWAY CROSS SECTIONS | | | |
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| Designer: | LRN | Structure | Numbers |
| Detailer: | PDP | Subset Sheets: | 67 of 91 |
| Sheet Subset: | XSEC | | |

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| Project No./Code |
| Sheet Number 249 |

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All seals for this set of drawings are applied to the cover page(s)

Print Date: 28-JUN-2022
 File Name: 21015_RD_SHEET_119BW(SEG4)_XSEC.dgn
 Horiz. Scale: Vert. Scale: As Noted
 Unit Information

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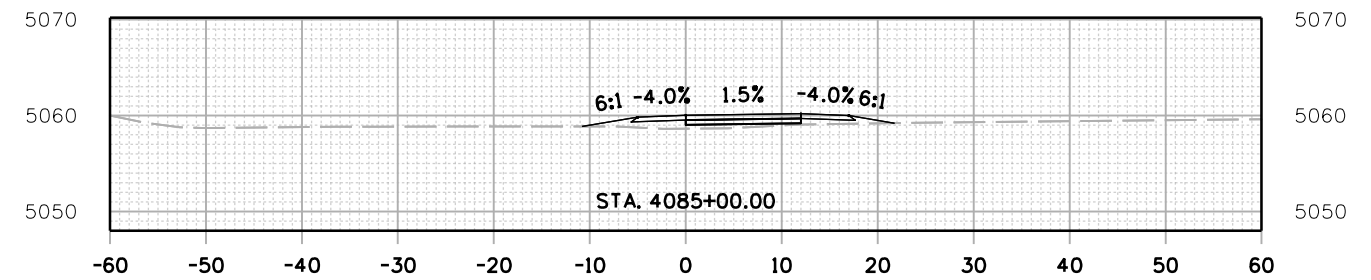
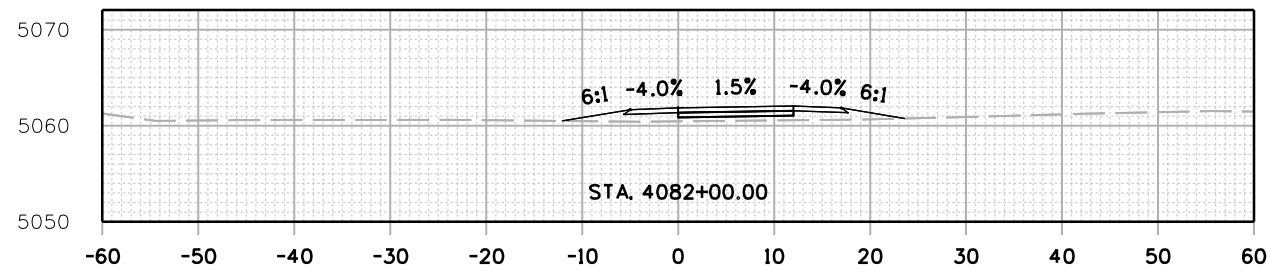
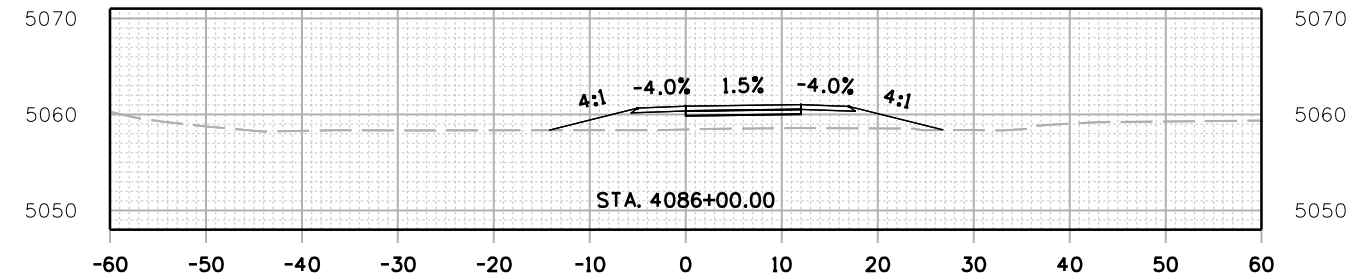
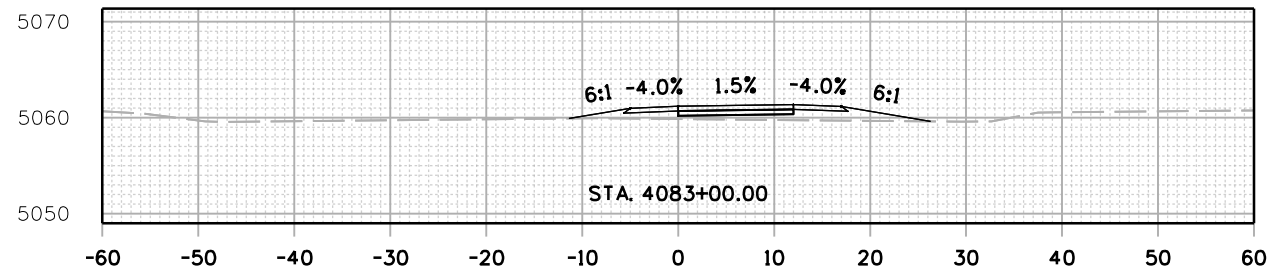
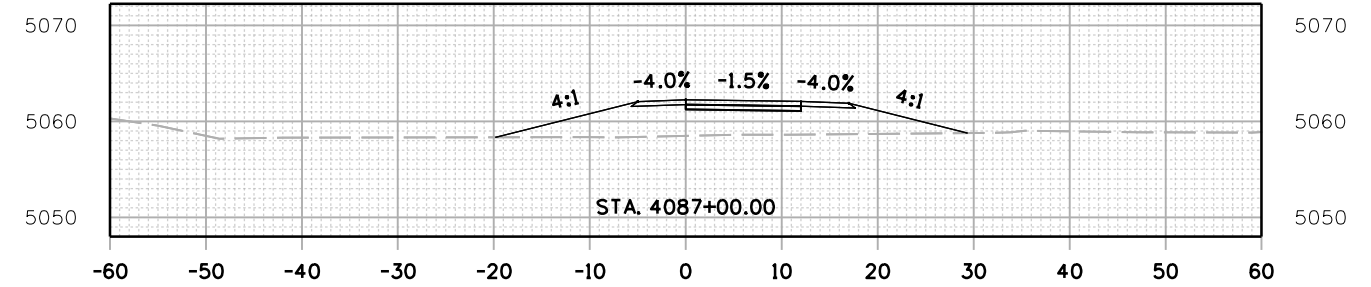
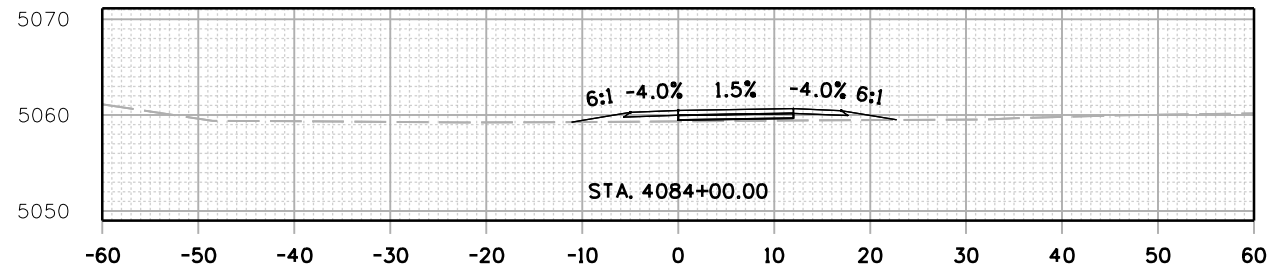


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| CD 119 BIKEWAY CROSS SECTIONS | | | |
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| Designer: | LRN | Structure | Numbers |
| Detailer: | PDP | Subset Sheets: | 68 of 91 |
| Sheet Subset: | XSEC | | |

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| Project No./Code |
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All seals for this set of drawings are applied to the cover page(s)

Print Date: 28-JUN-2022
 File Name: 21015_RD_SHEET_119BW(SEG4)_XSEC.dgn
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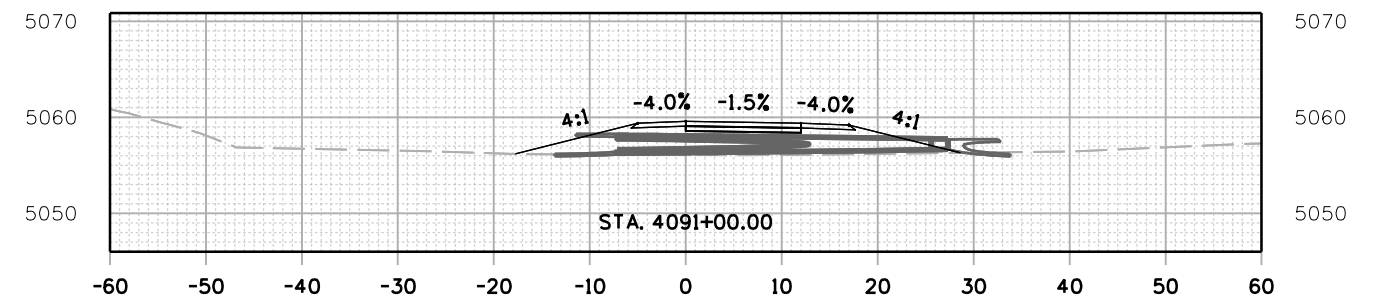
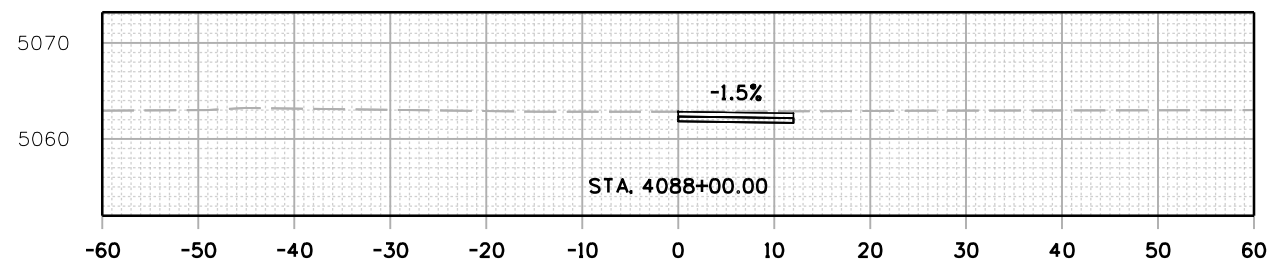
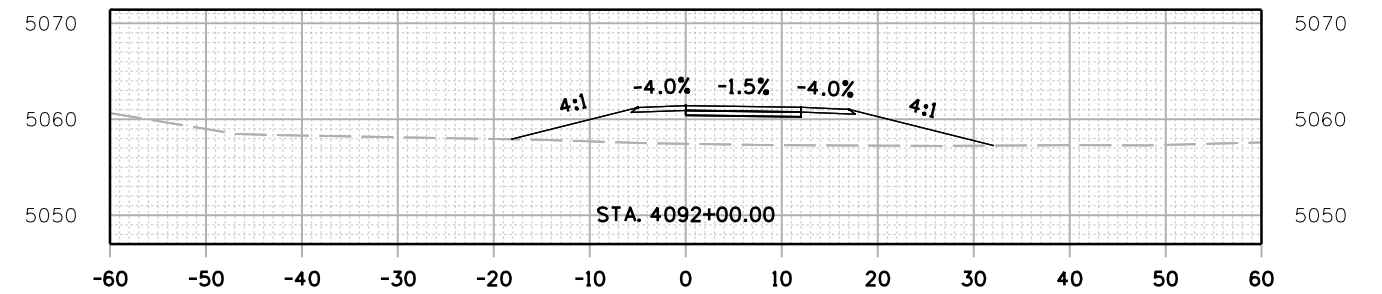
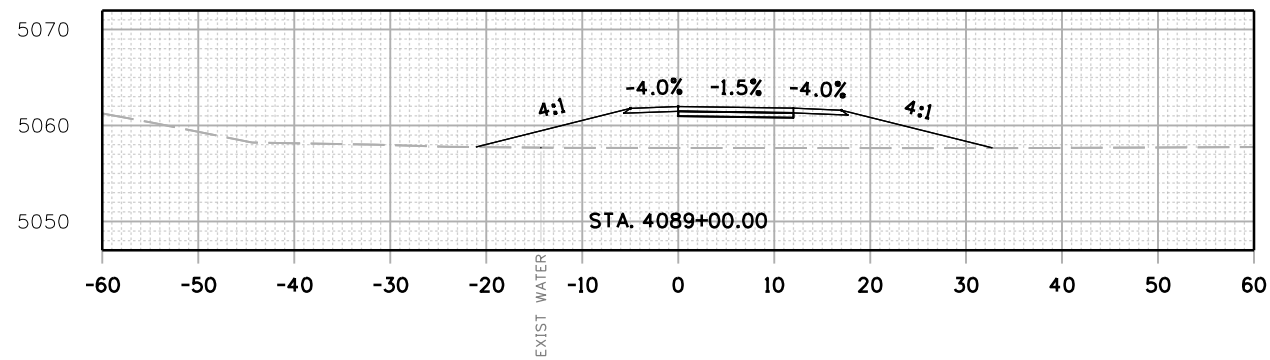
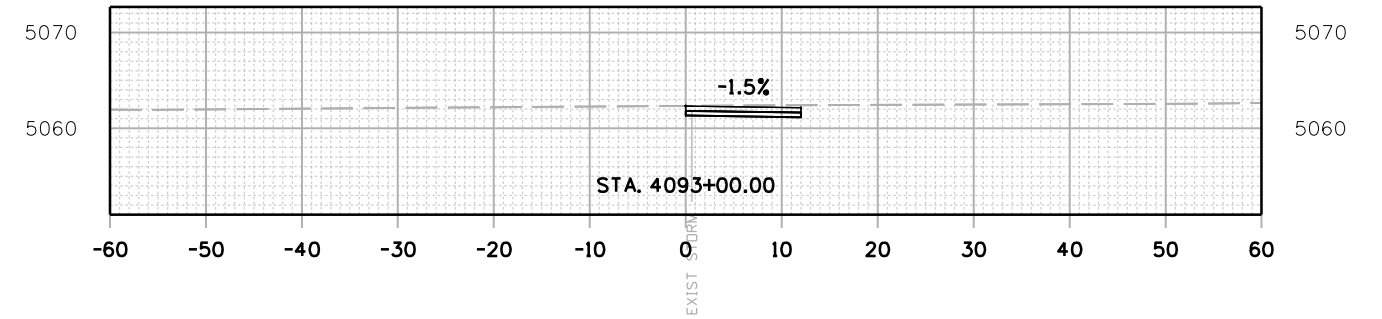
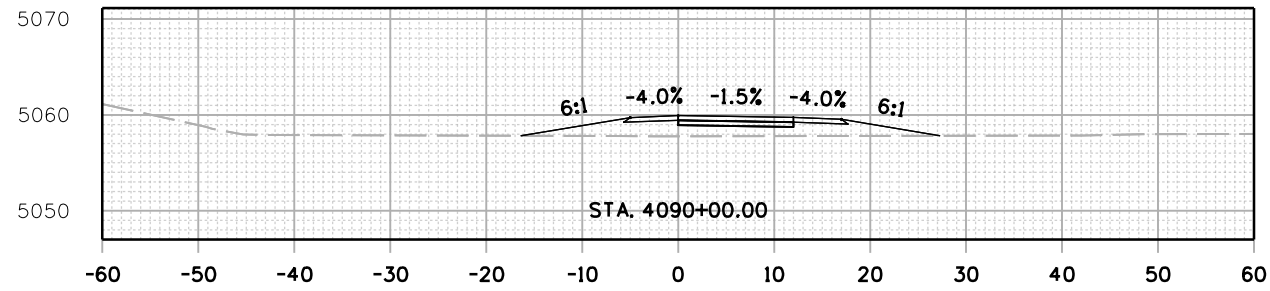


As Constructed
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| CD 119 BIKEWAY CROSS SECTIONS | | | |
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| Designer: | LRN | Structure | Numbers |
| Detailer: | PDP | Sheet Subset: | XSEC |
| Sheet Subset: XSEC | | Subset Sheets: | 69 of 91 |

Project No./Code
 Sheet Number 251

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All seals for this set of drawings are applied to the cover page(s)

Print Date: 28-JUN-2022
 File Name: 21015_RD_SHEET_119BW(SEG4)_XSEC.dgn
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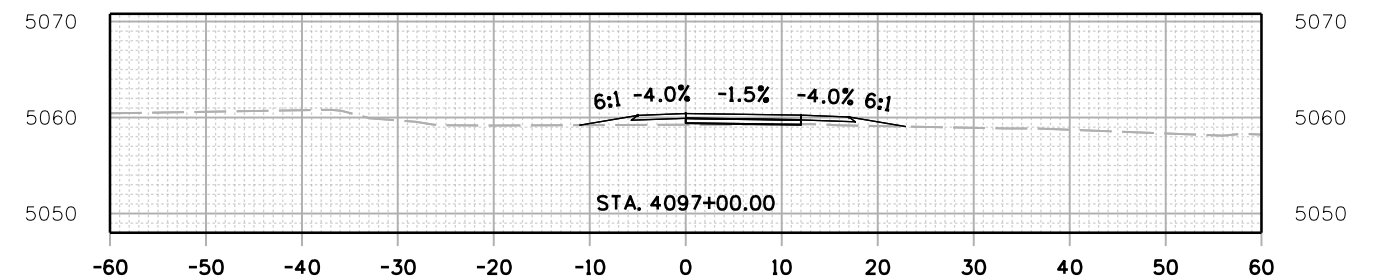
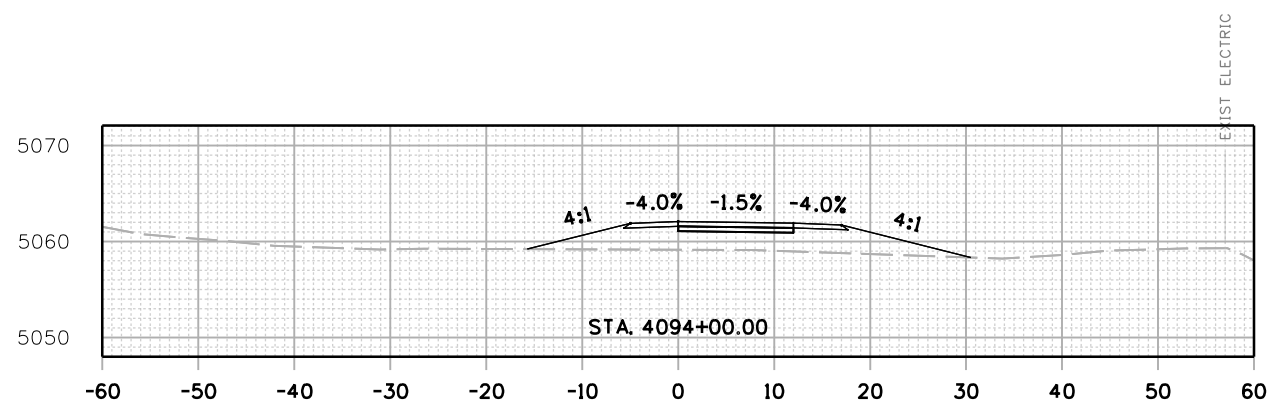
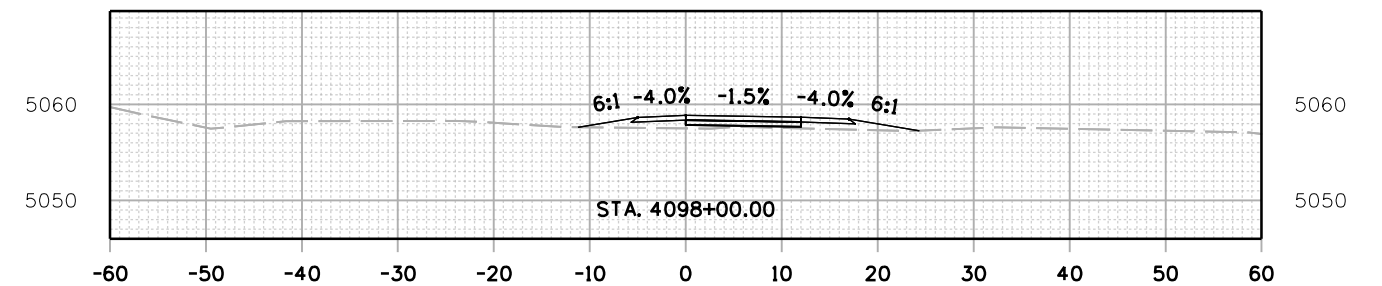
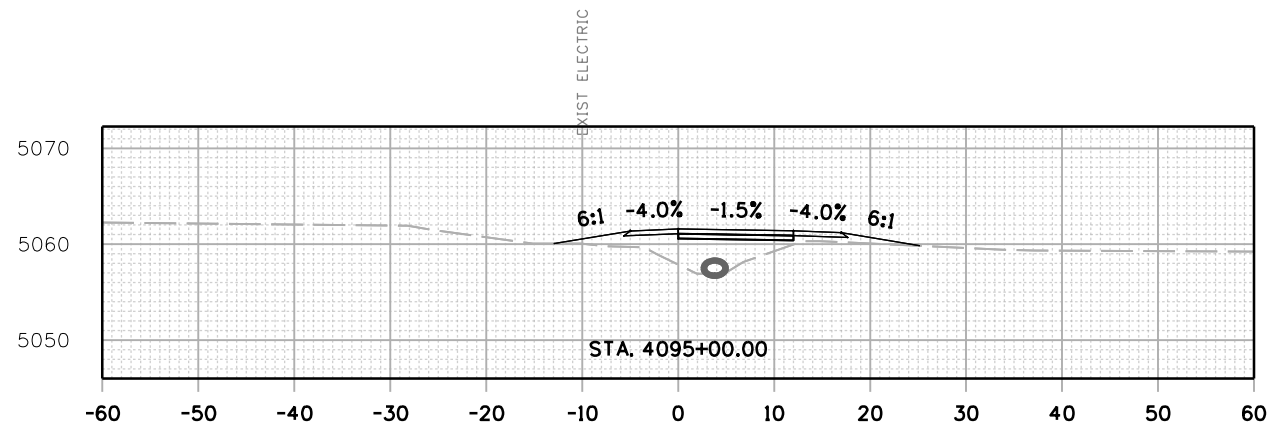
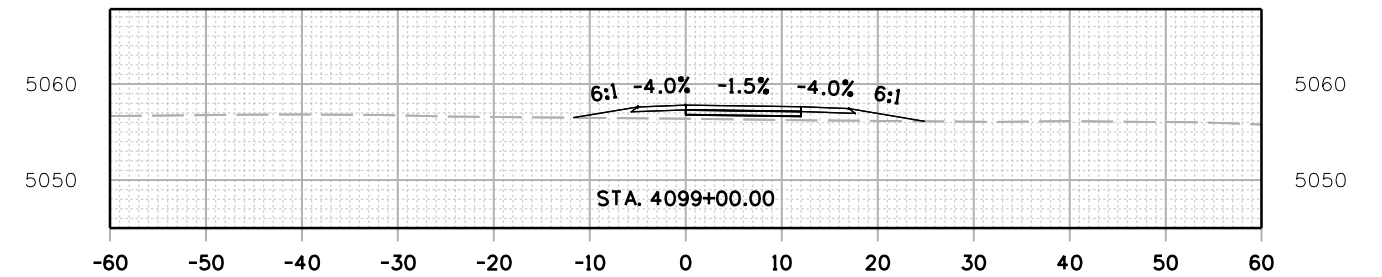
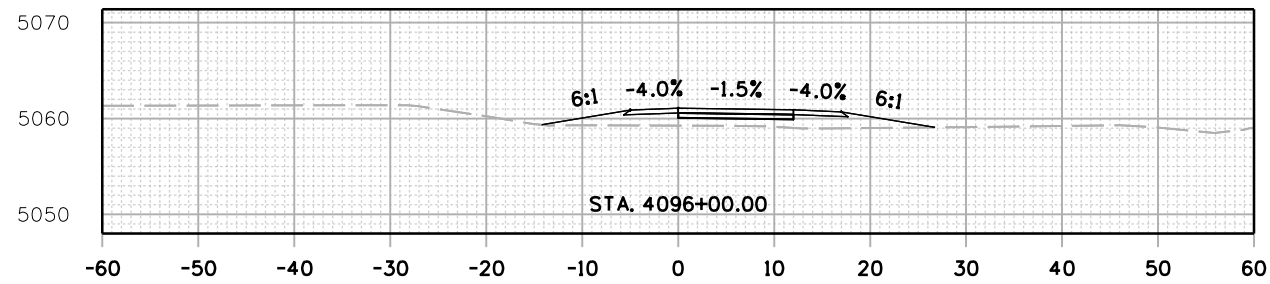


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| CD 119 BIKEWAY | | | |
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| Designer: | LRN | Structure | Numbers |
| Detailer: | PDP | | |
| Sheet Subset: | XSEC | Subset Sheets: | 70 of 91 |

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| Project No./Code |
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| Sheet Number 252 |

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All seals for this set of drawings are applied to the cover page(s)

Print Date: 28-JUN-2022
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 Horiz. Scale: Vert. Scale: As Noted
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| Sheet Revisions | | |
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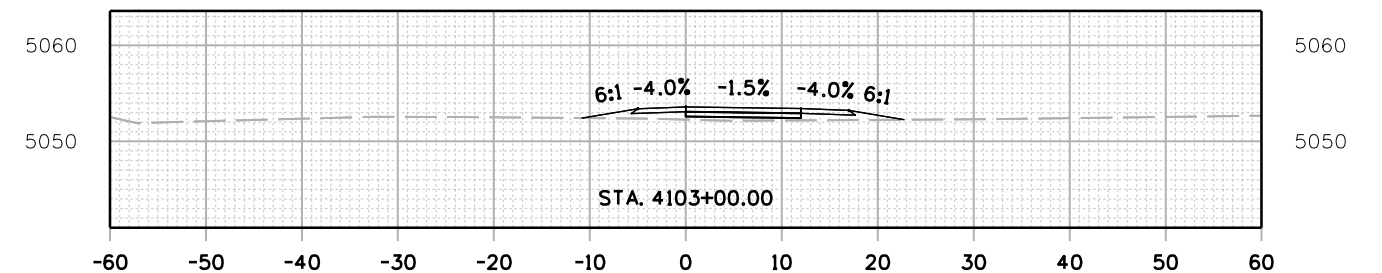
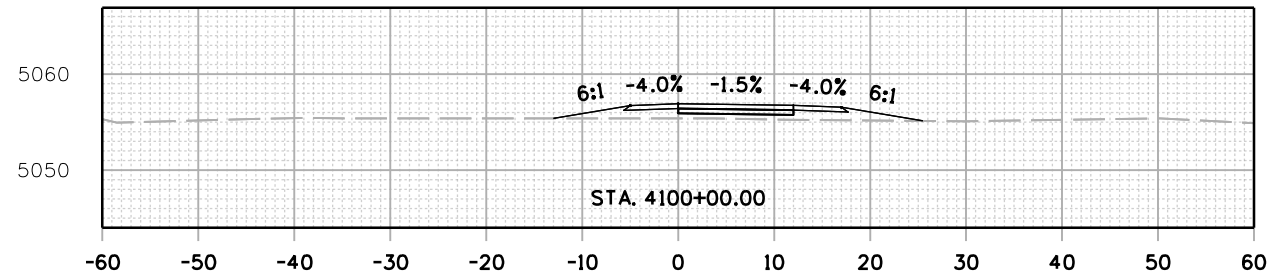
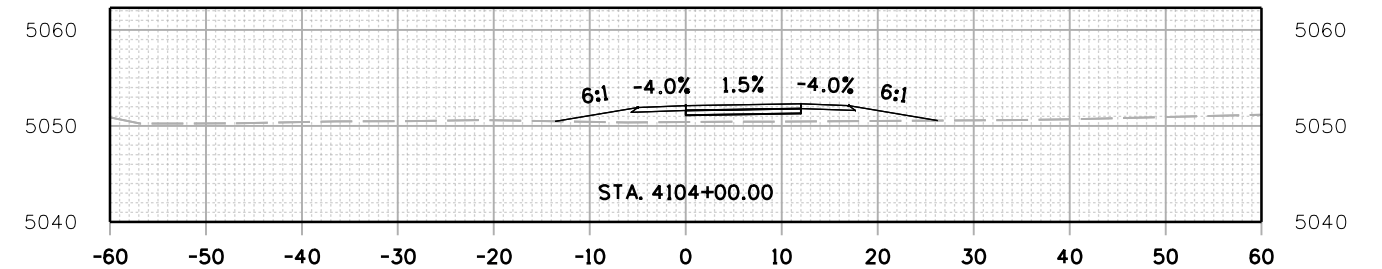
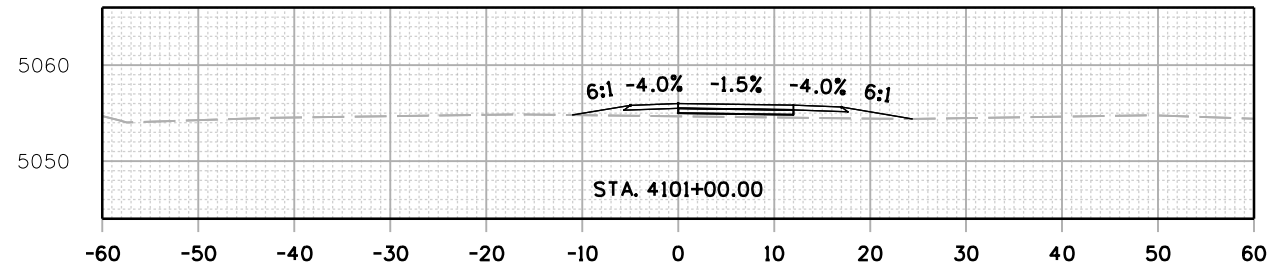
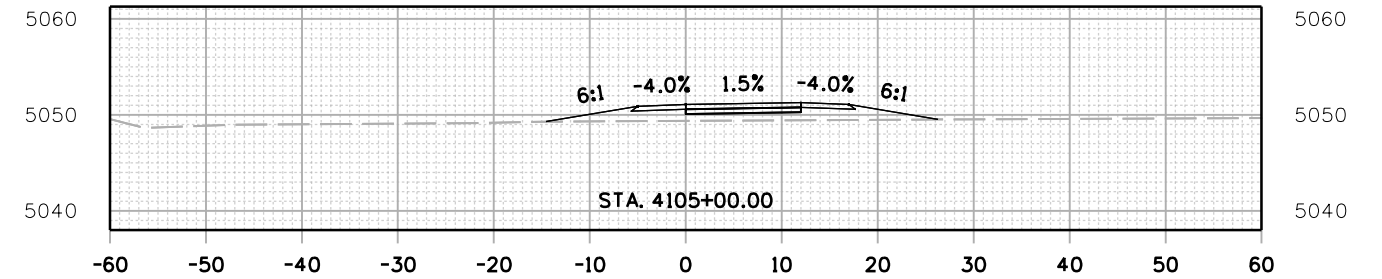
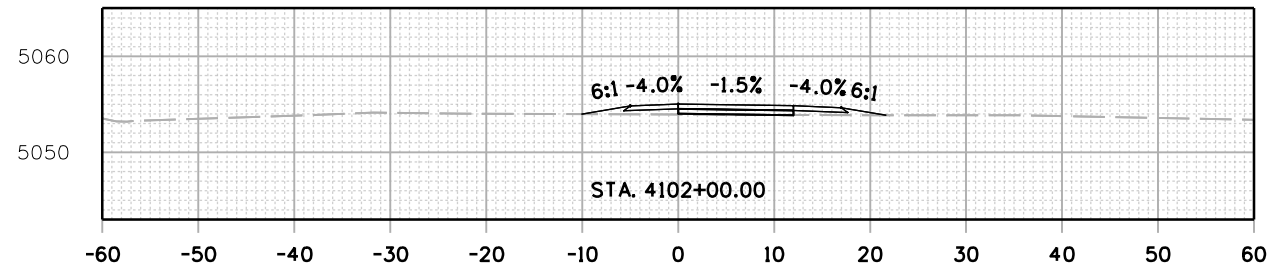


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| CD 119 BIKEWAY CROSS SECTIONS | | | |
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| Designer: | LRN | Structure | Numbers |
| Detailer: | PDP | | |
| Sheet Subset: | XSEC | Subset Sheets: | 71 of 91 |

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| Project No./Code |
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| Sheet Number 253 |

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All seals for this set of drawings are applied to the cover page(s)

Print Date: 28-JUN-2022
 File Name: 21015_RD_SHEET_119BW(SEG4)_XSEC.dgn
 Horiz. Scale: Vert. Scale: As Noted
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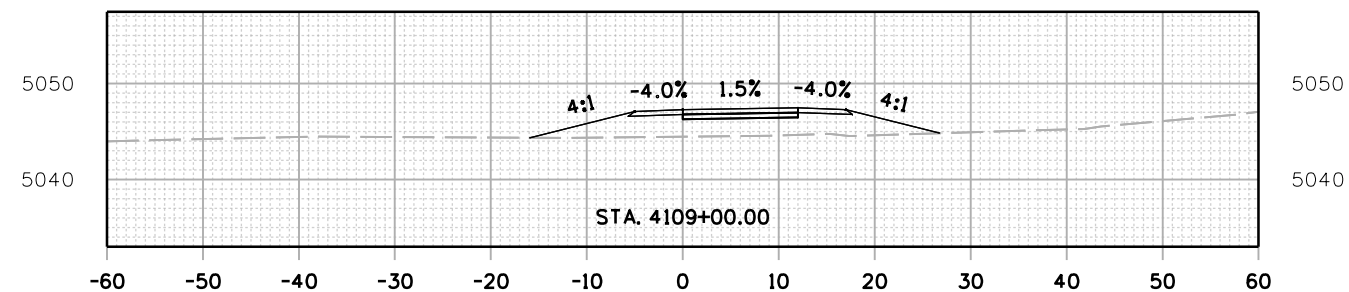
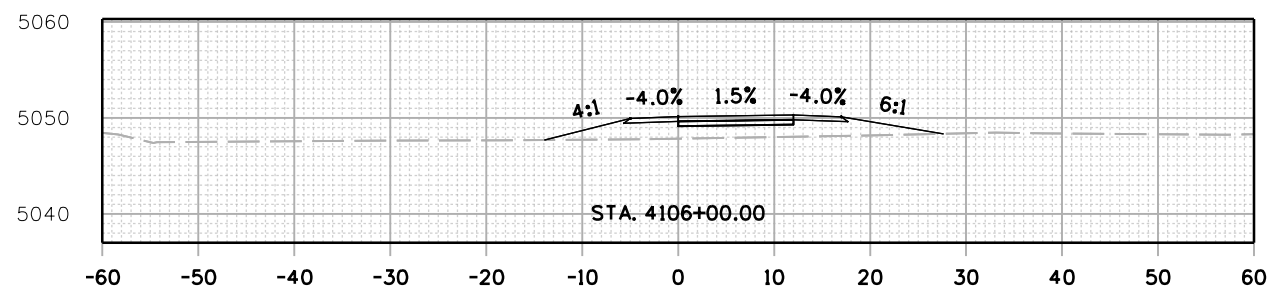
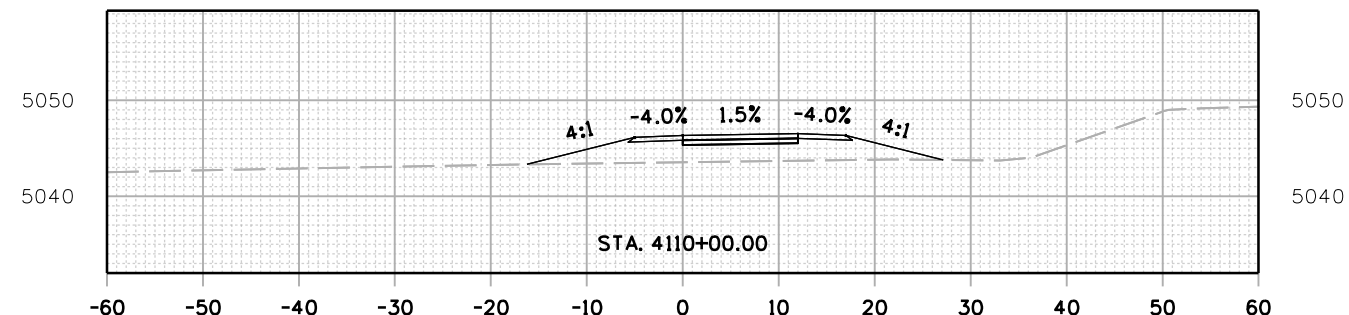
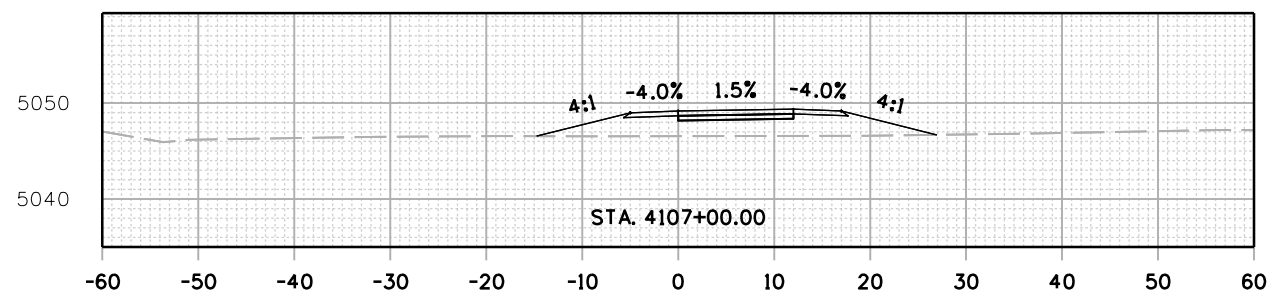
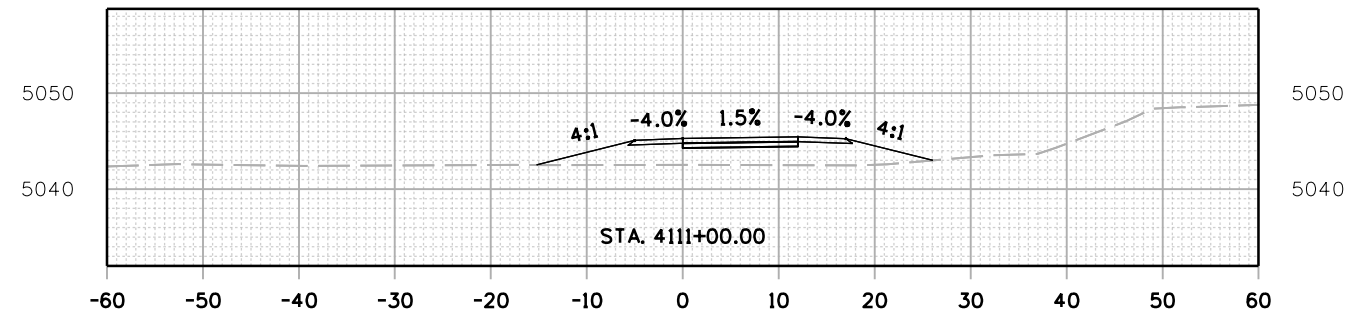
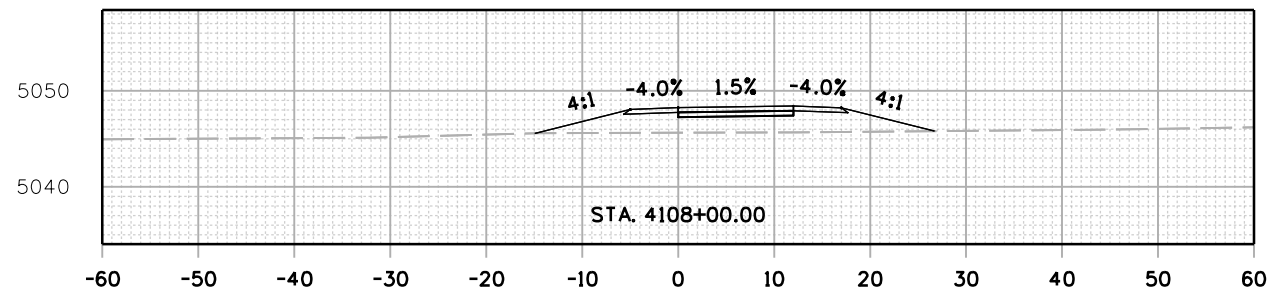


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| CD 119 BIKEWAY CROSS SECTIONS | | | |
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| Designer: | LRN | Structure | Numbers |
| Detailer: | PDP | Subset Sheets: | 72 of 91 |
| Sheet Subset: | XSEC | | |

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| Project No./Code |
| Sheet Number 254 |

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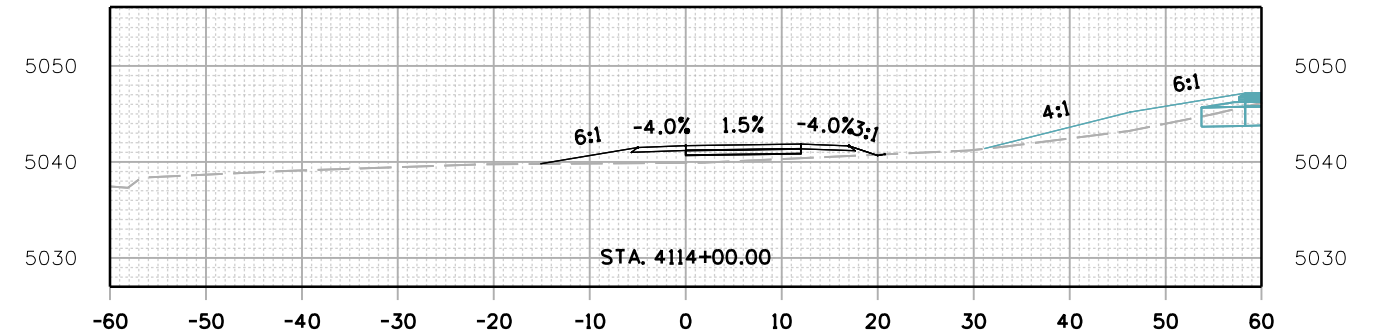
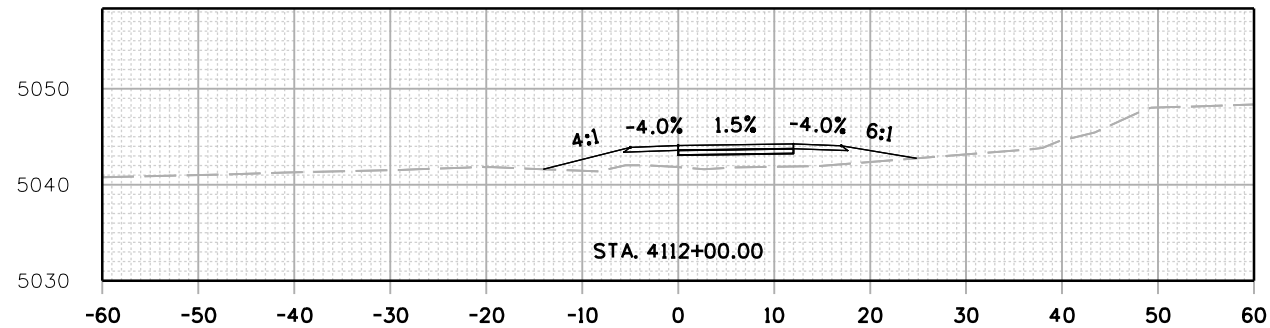
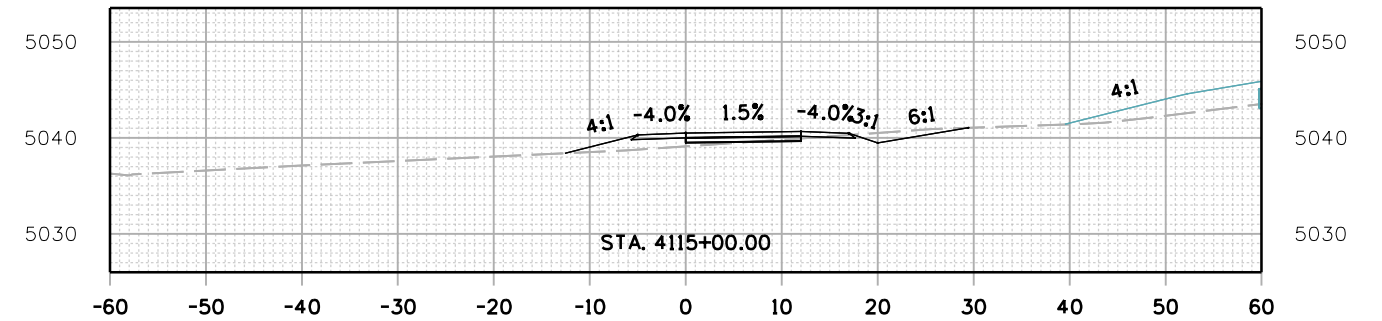
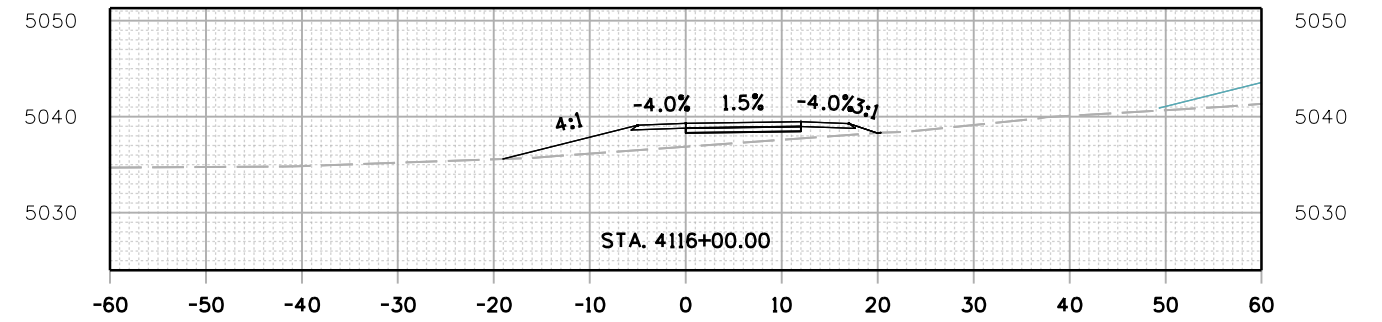
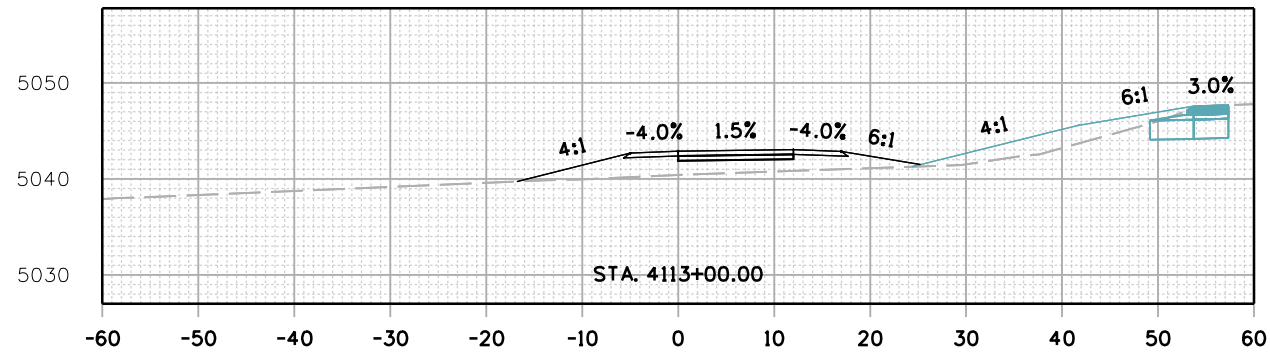
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| | Designer: | LRN | Structure Numbers | |
| | Detailer: | PDP | | |
| | Sheet Subset: | XSEC | Subset Sheets: 73 of 91 | Sheet Number 255 |

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All seals for this set of drawings are applied to the cover page(s)

Print Date: 28-JUN-2022
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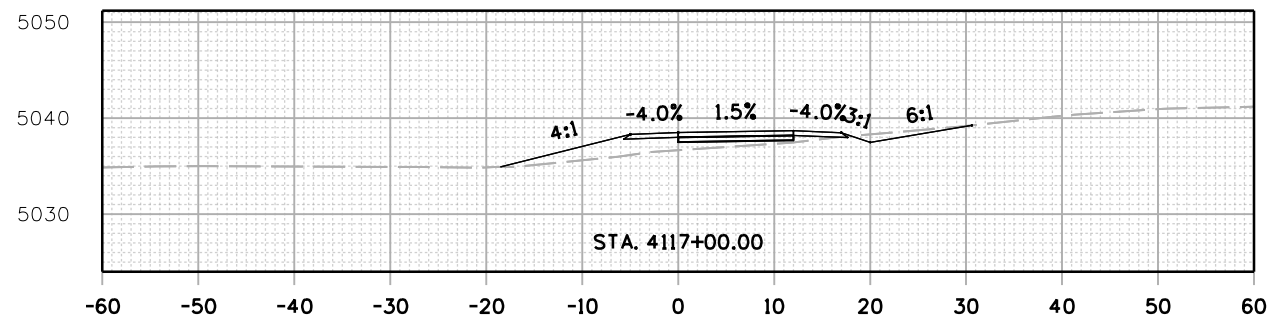
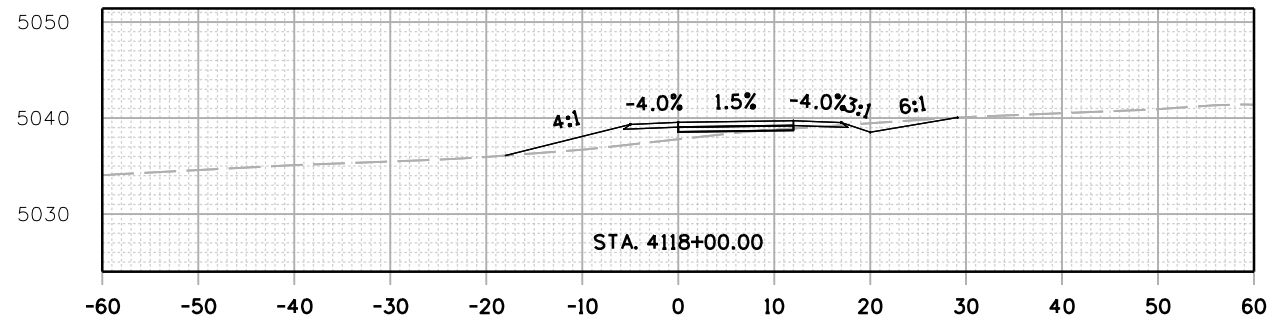


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| CD 119 BIKEWAY CROSS SECTIONS | | | |
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| Designer: | LRN | Structure | Numbers |
| Detailer: | PDP | Subset Sheets: | 74 of 91 |
| Sheet Subset: | XSEC | | |

Project No./Code
 Sheet Number 256

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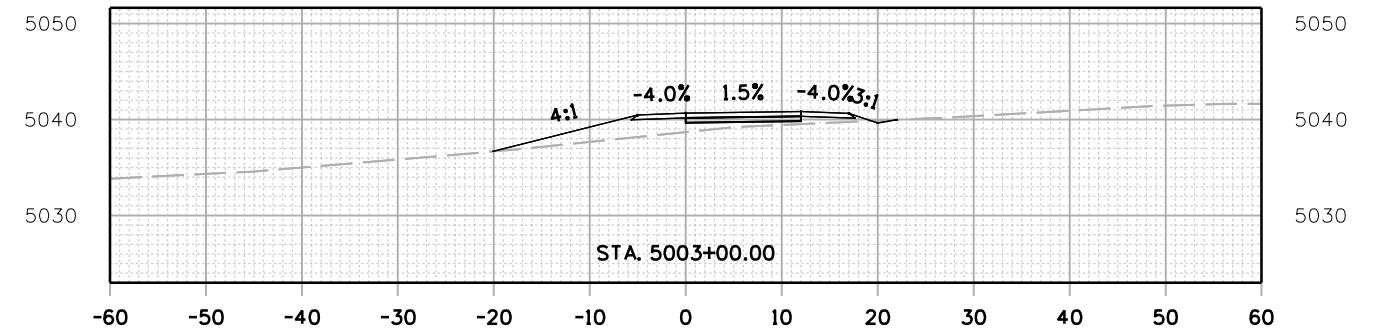
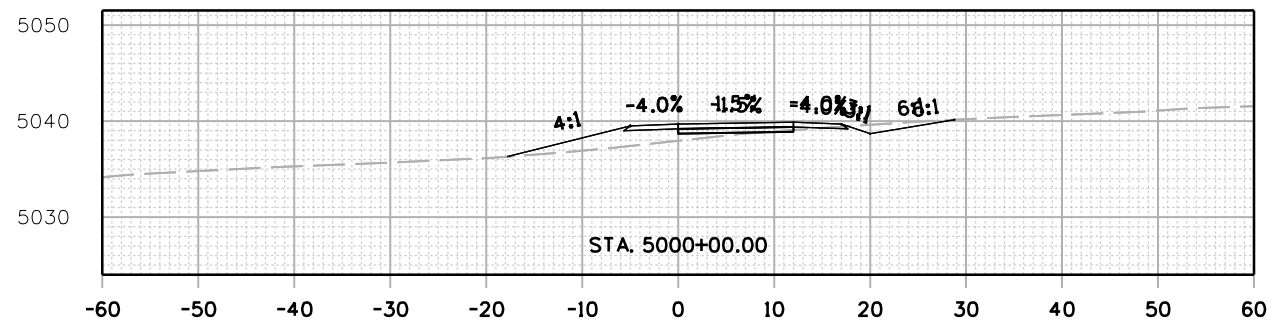
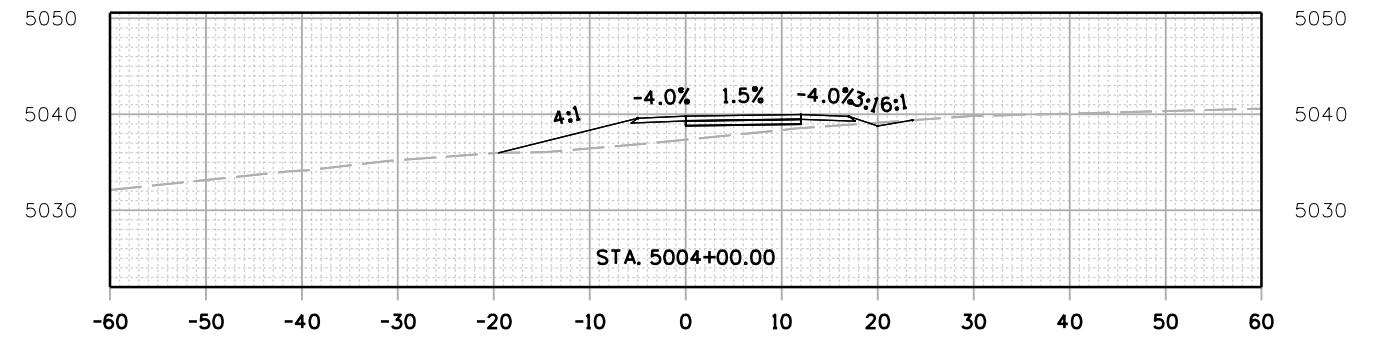
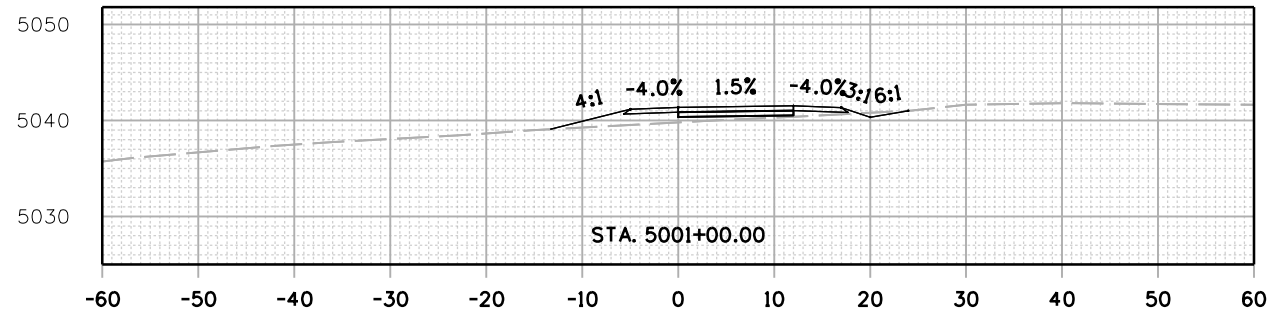
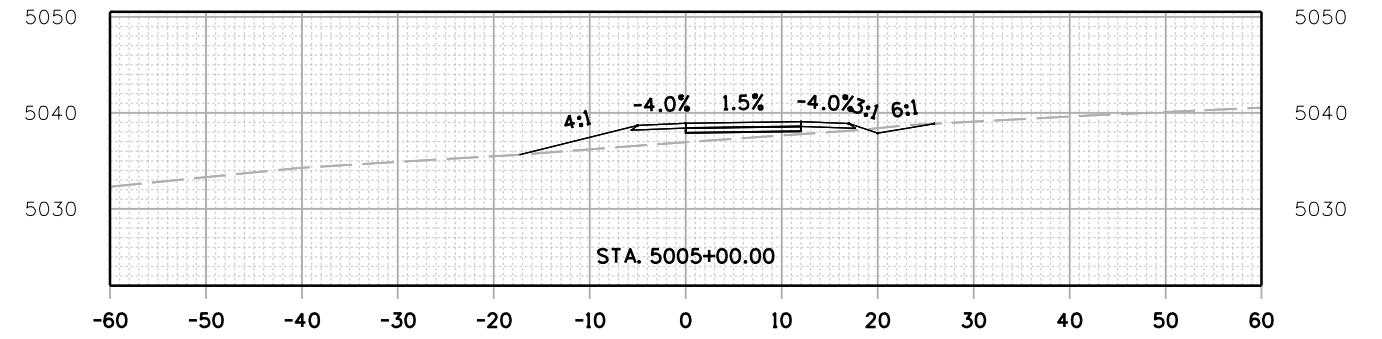
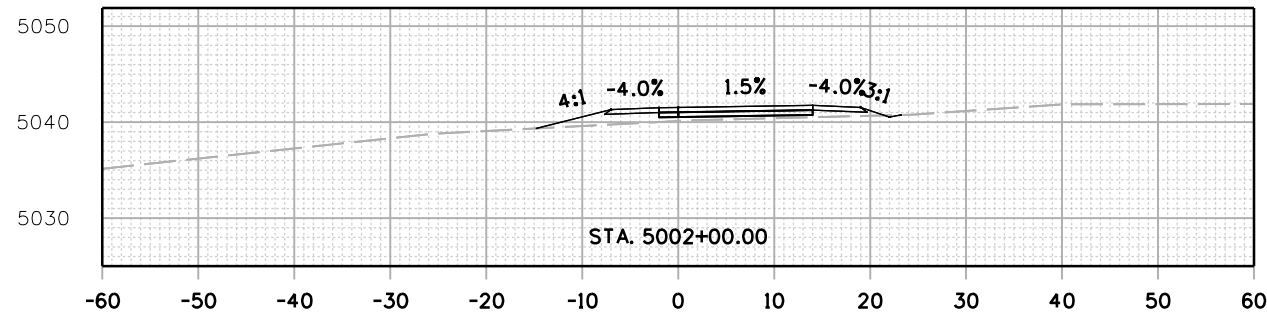
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| No Revisions: | | | | |
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| | | Detailer: PDP | | |
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All seals for this set of drawings are applied to the cover page(s)

Print Date: 28-JUN-2022
 File Name: 21015_RD_SHEET_119BW(SEG5)_XSEC.dgn
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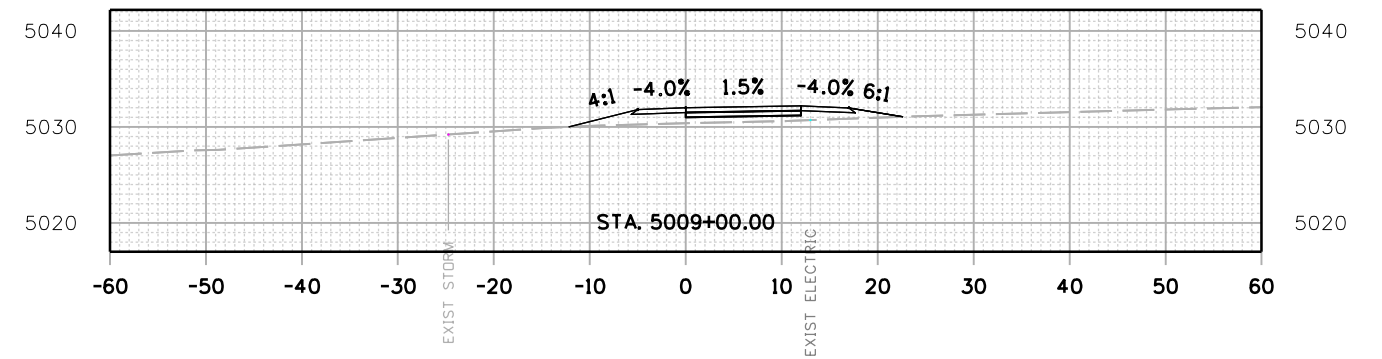
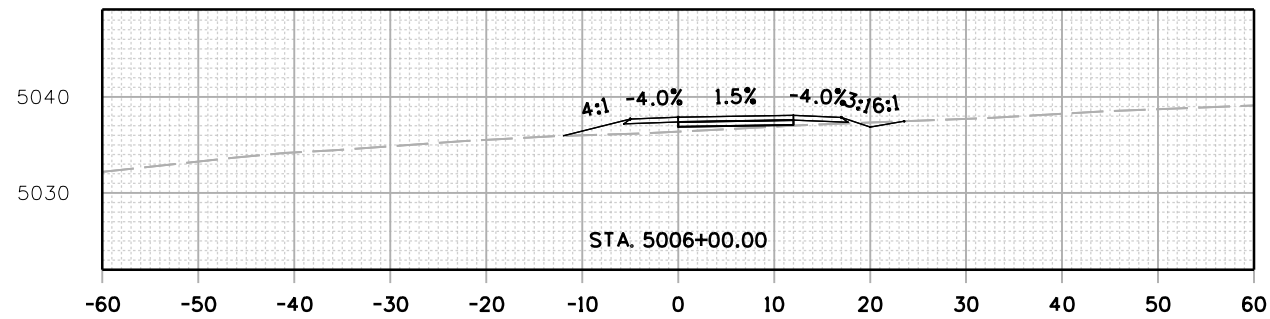
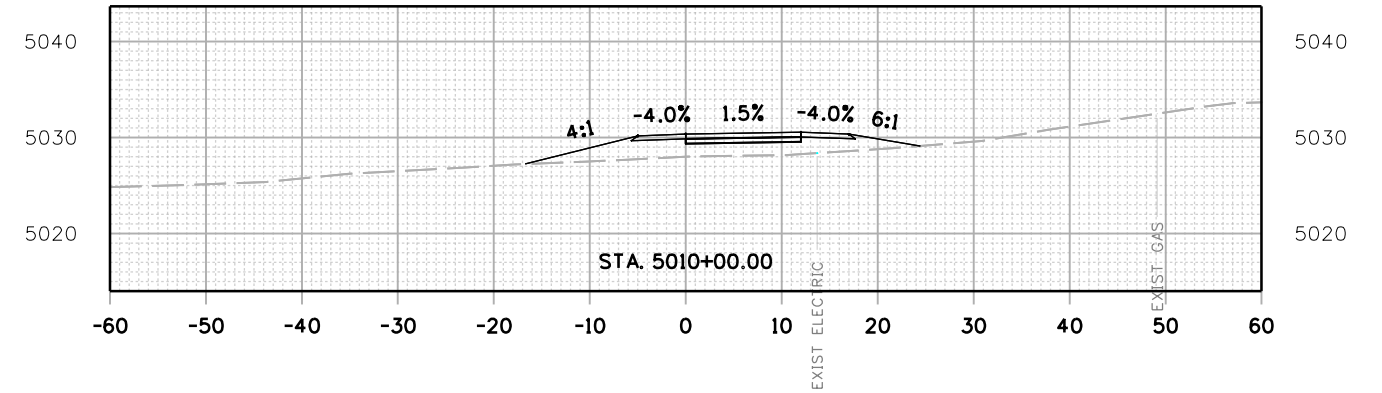
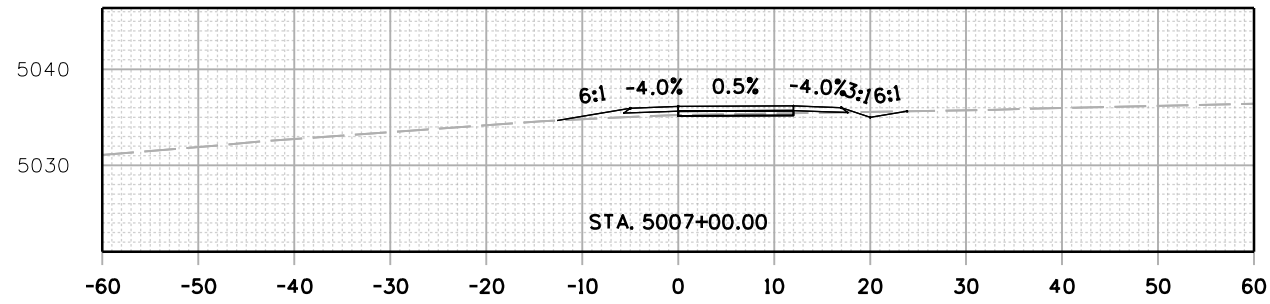
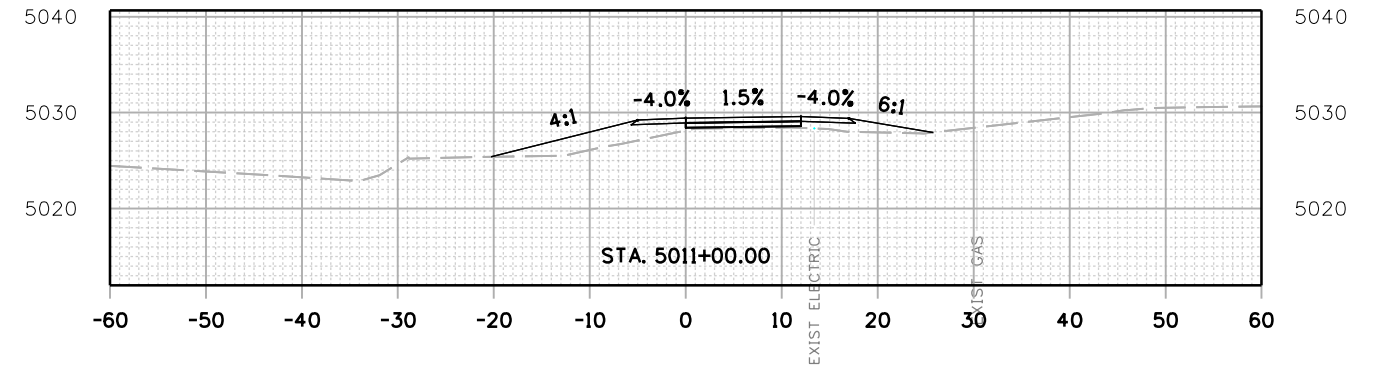
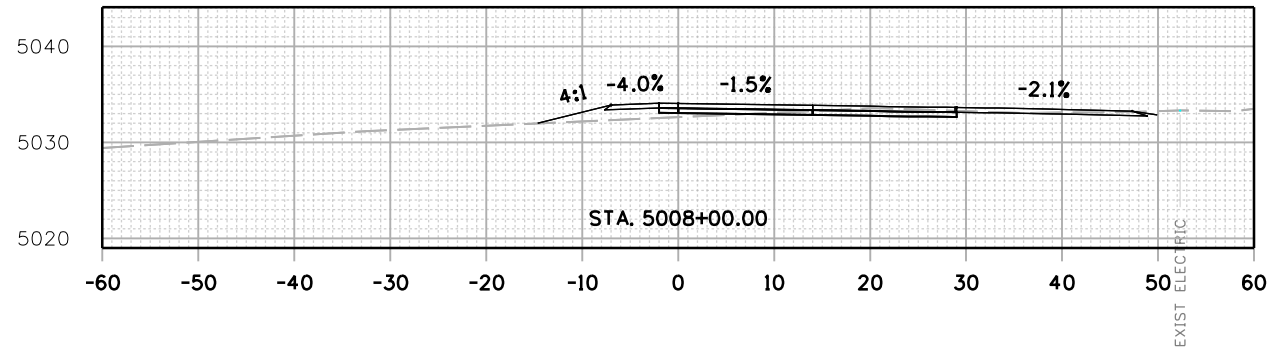


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| CD 119 BIKEWAY CROSS SECTIONS | | | |
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| Designer: | LRN | Structure | |
| Detailer: | PDP | Numbers | |
| Sheet Subset: | XSEC | Subset Sheets: | 76 of 91 |

Project No./Code
 Sheet Number 258

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All seals for this set of drawings are applied to the cover page(s)

Print Date: 28-JUN-2022
 File Name: 21015_RD_SHEET_119BW(SEG5)_XSEC.dgn
 Horiz. Scale: Vert. Scale: As Noted
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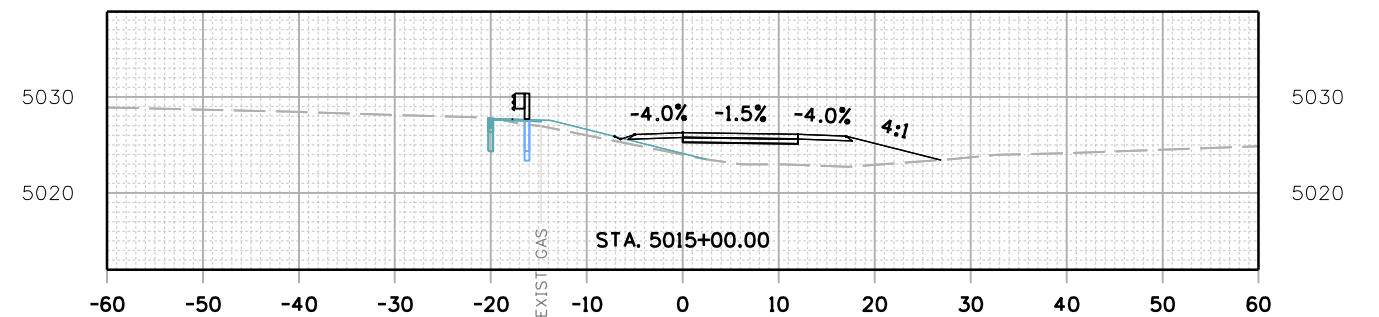
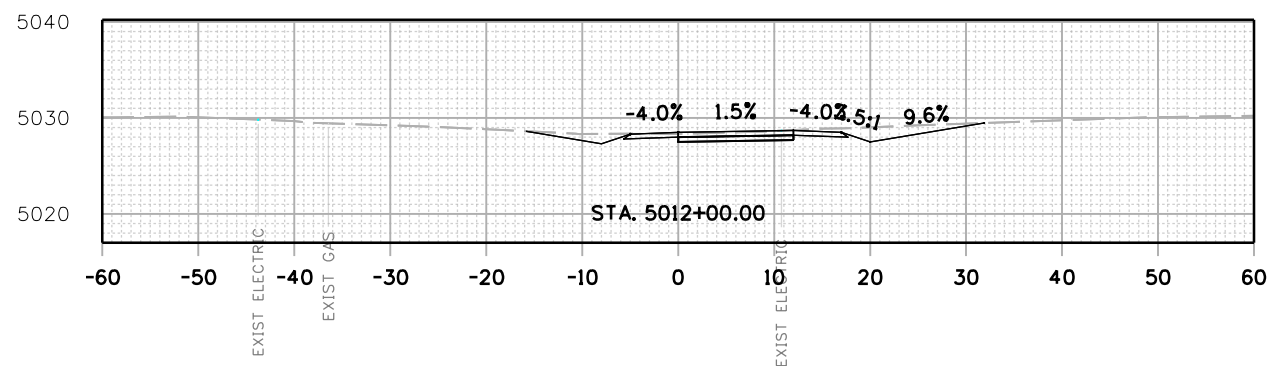
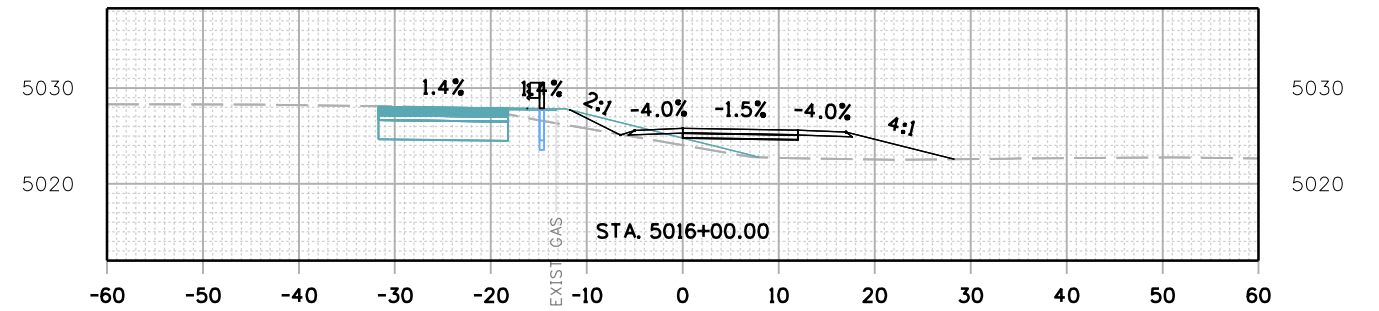
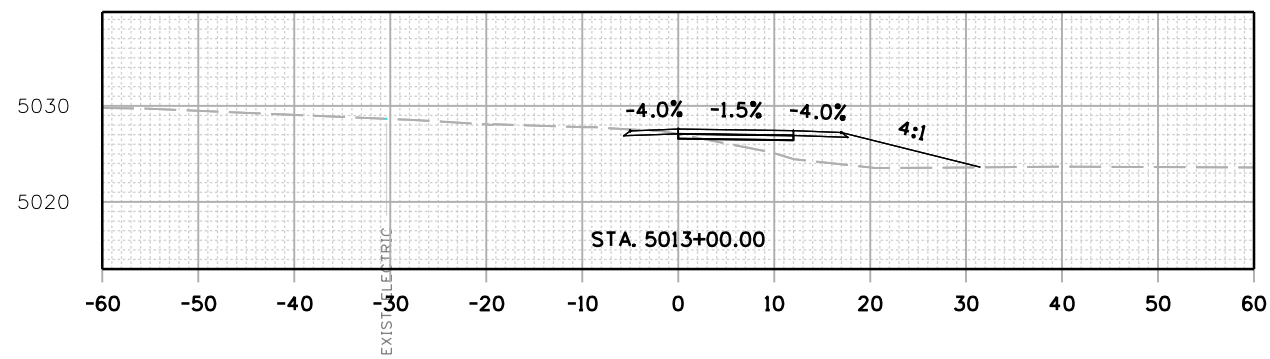
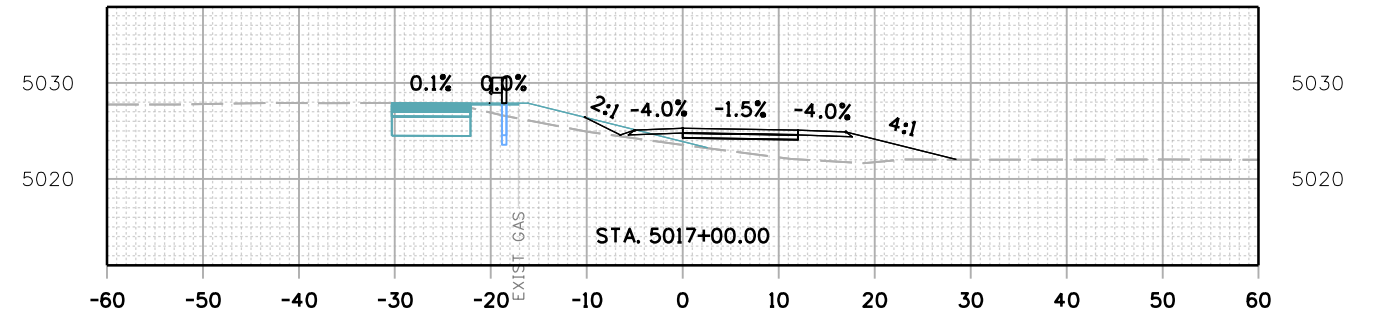
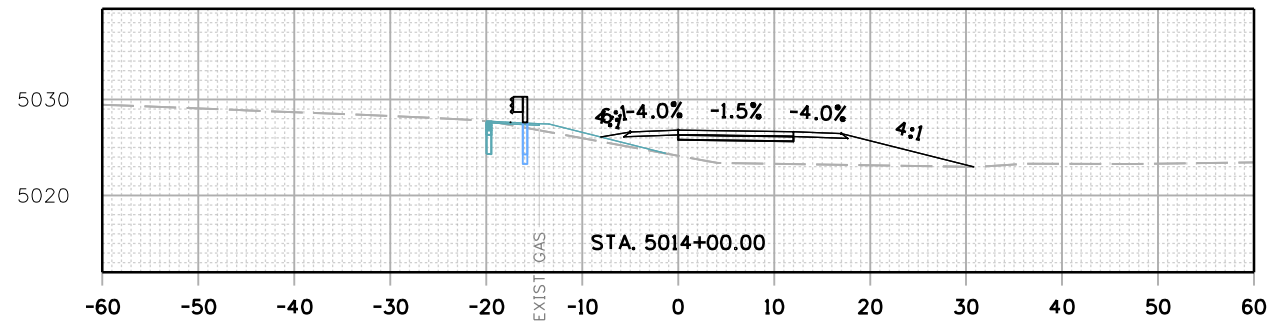


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| CD 119 BIKEWAY CROSS SECTIONS | | | |
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| Designer: | LRN | Structure | Numbers |
| Detailer: | PDP | Subset Sheets: | 77 of 91 |
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| Project No./Code |
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All seals for this set of drawings are applied to the cover page(s)

Print Date: 28-JUN-2022
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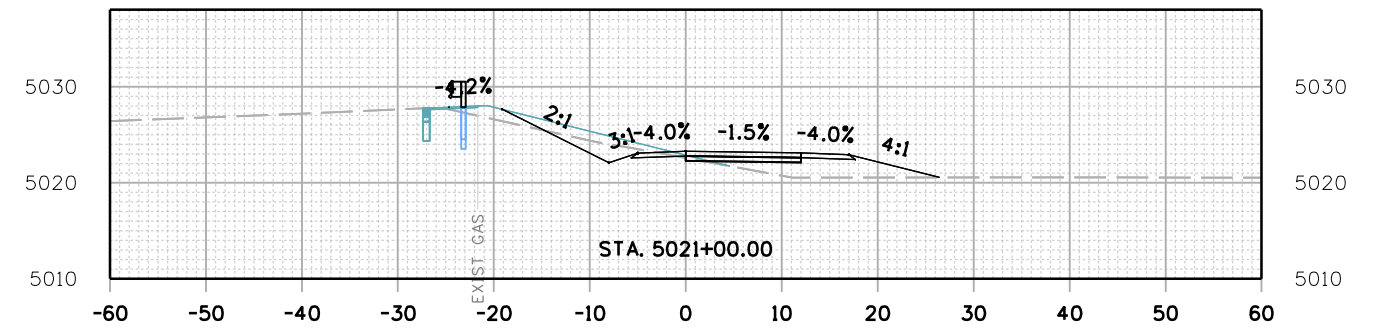
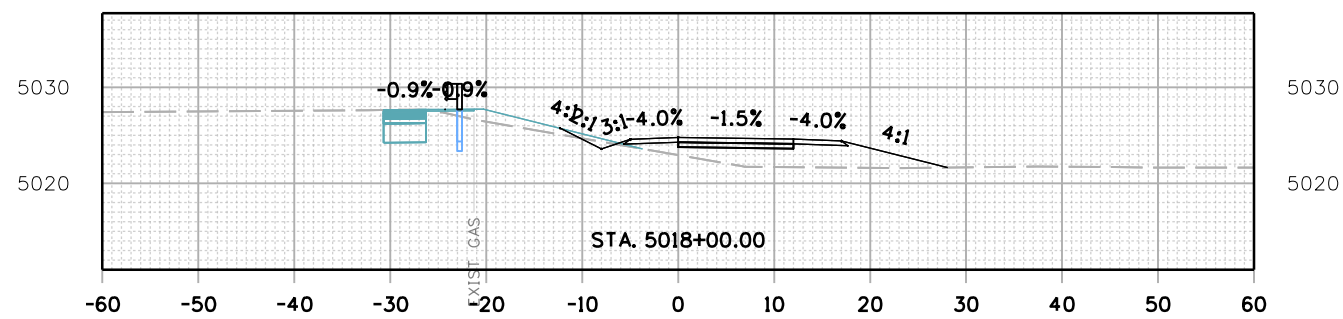
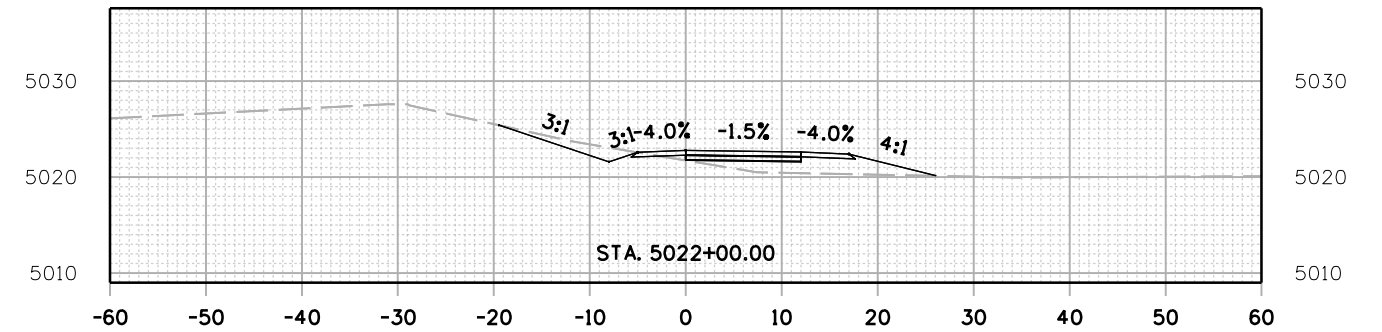
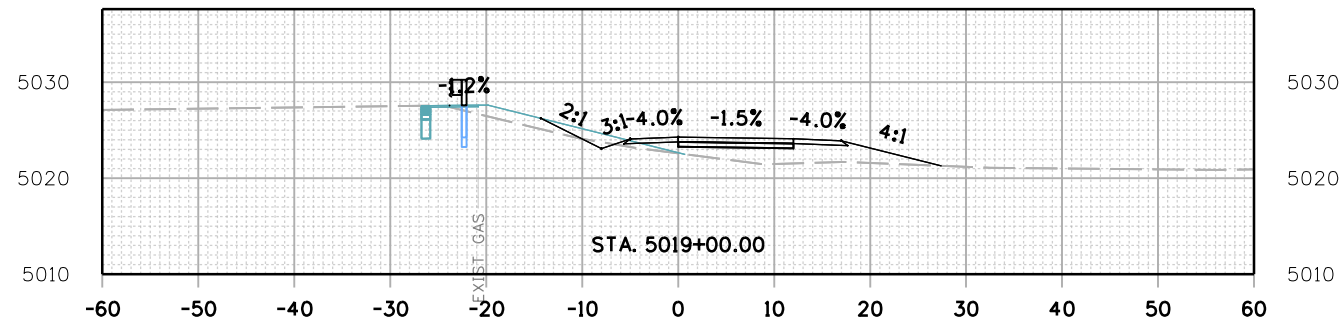
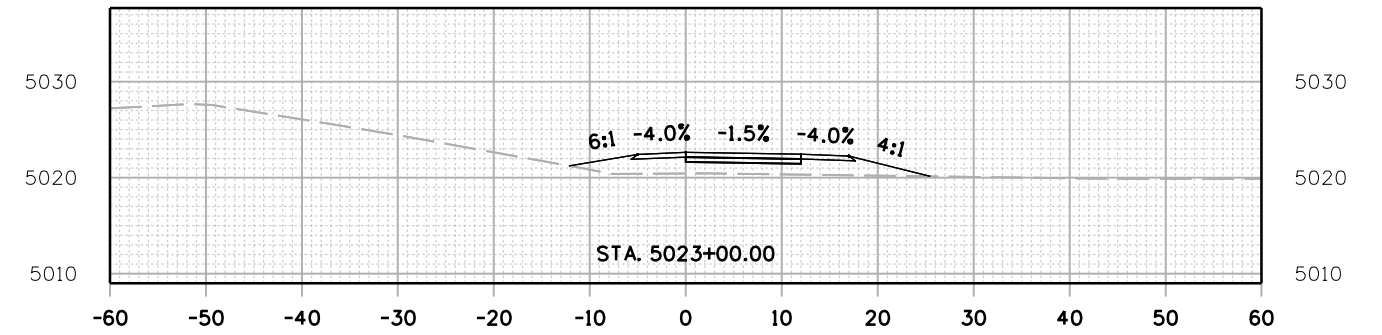
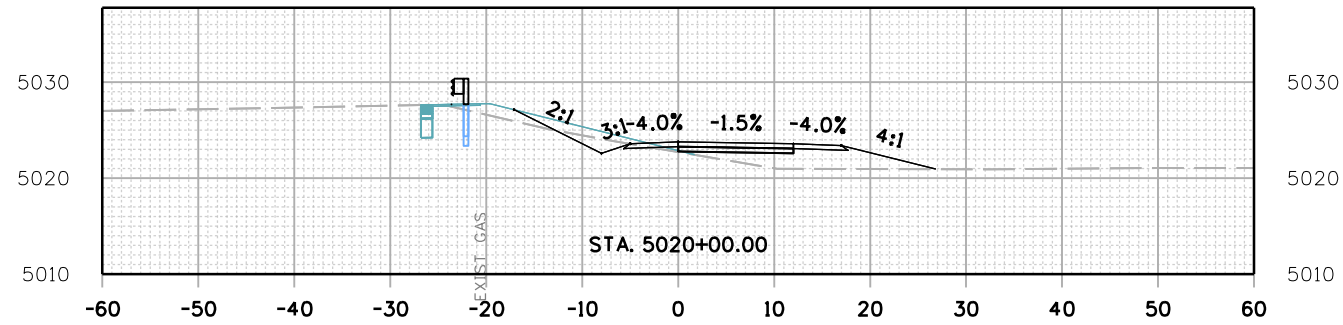


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| As Constructed | CD 119 BIKEWAY CROSS SECTIONS | Project No./Code | |
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All seals for this set of drawings are applied to the cover page(s)

Print Date: 28-JUN-2022
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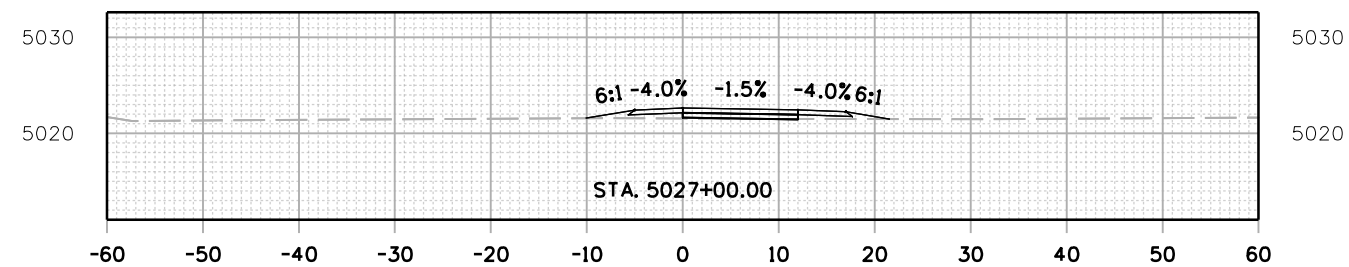
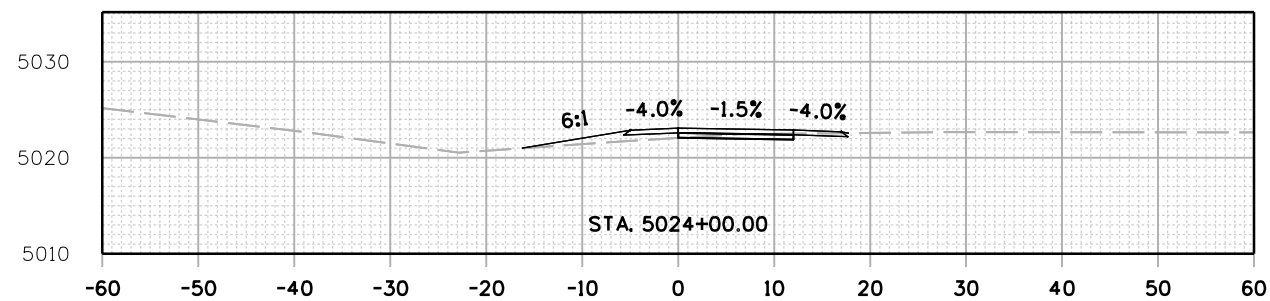
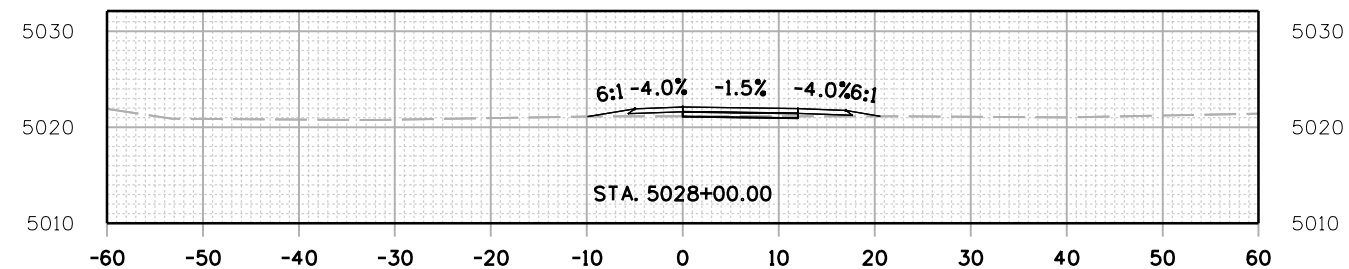
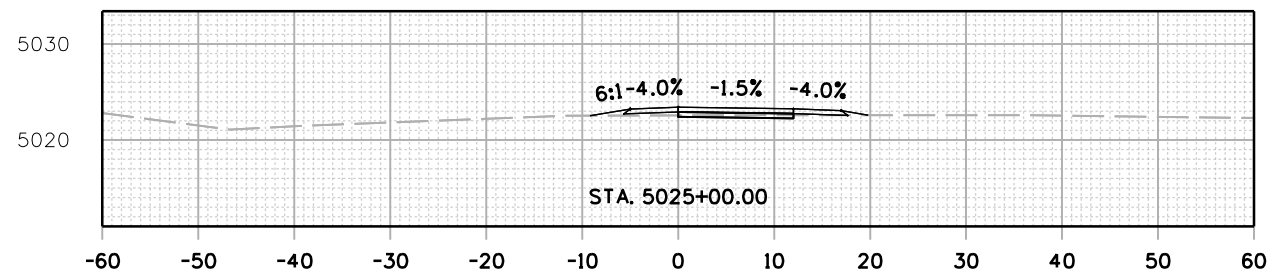
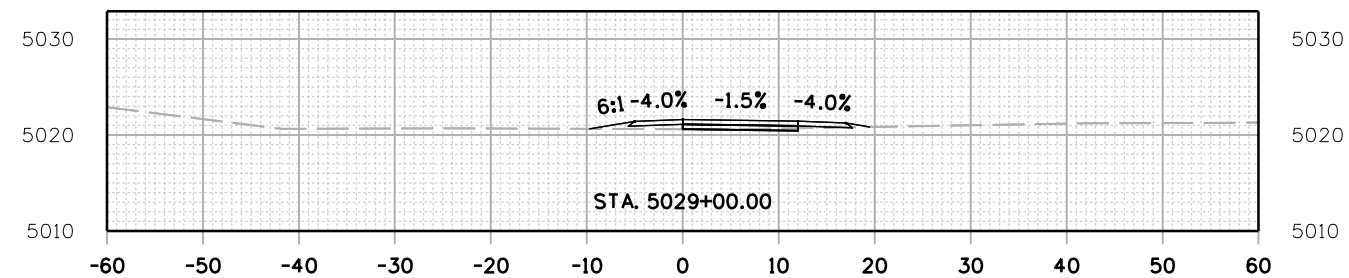
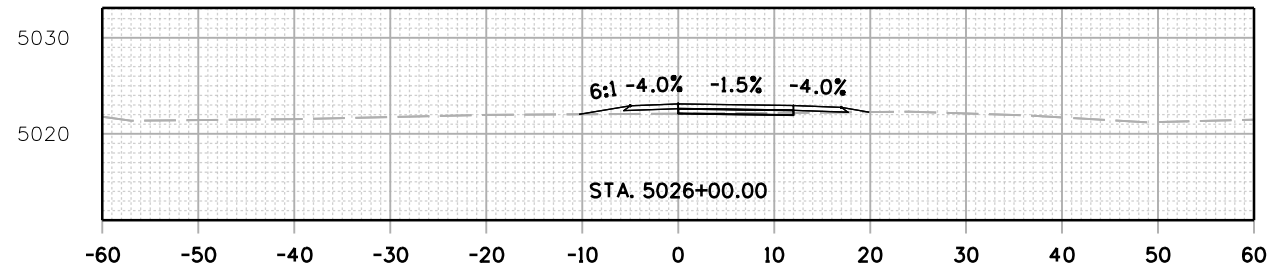


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| CD 119 BIKEWAY CROSS SECTIONS | | | |
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| Detailer: | PDP | Numbers | |
| Sheet Subset: | XSEC | Subset Sheets: | 79 of 91 |

Project No./Code
 Sheet Number 261

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All seals for this set of drawings are applied to the cover page(s)

Print Date: 28-JUN-2022
 File Name: 21015_RD_SHEET_119BW(SEG5)_XSEC.dgn
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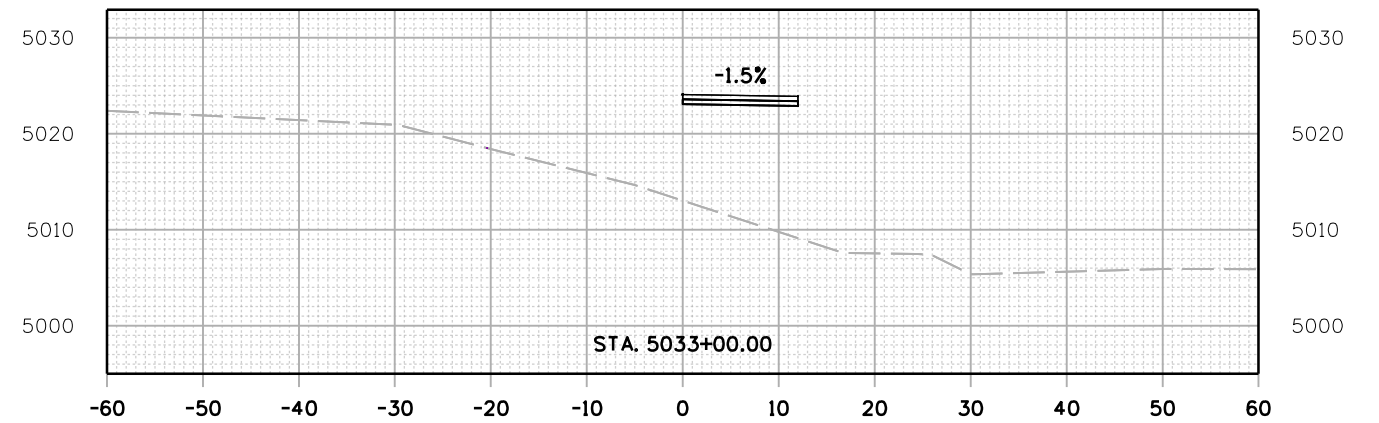
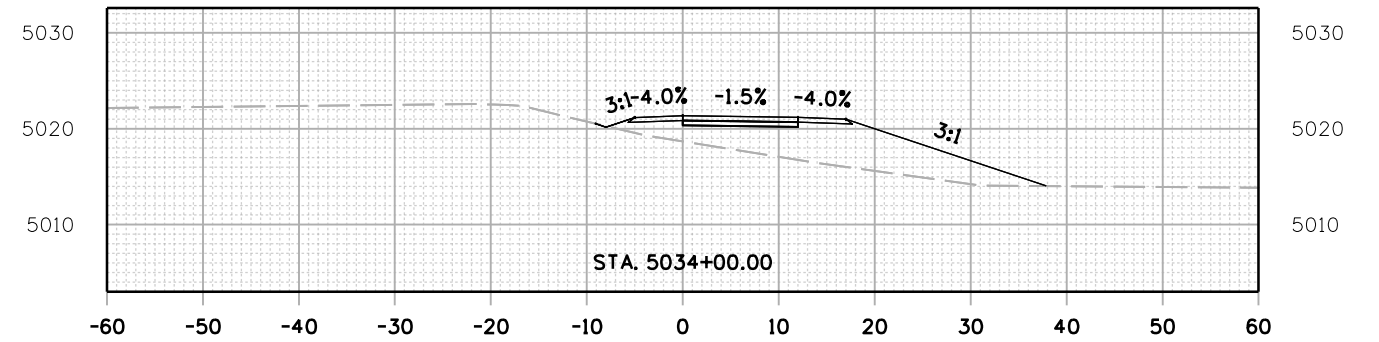
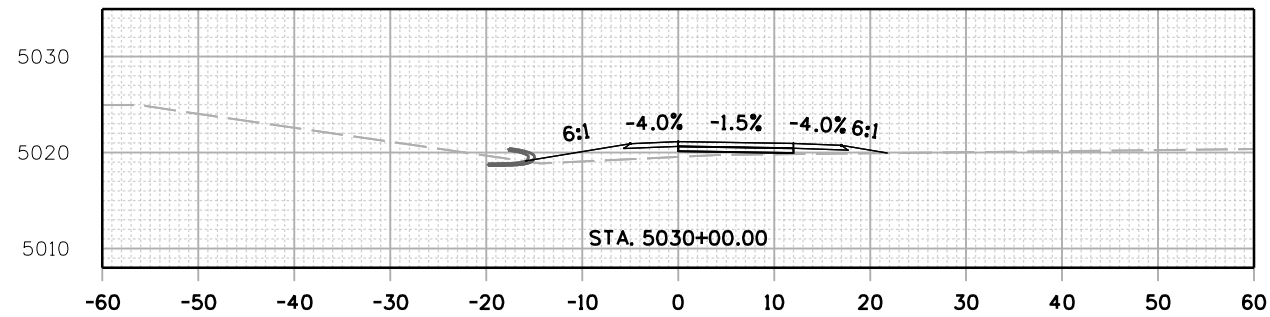
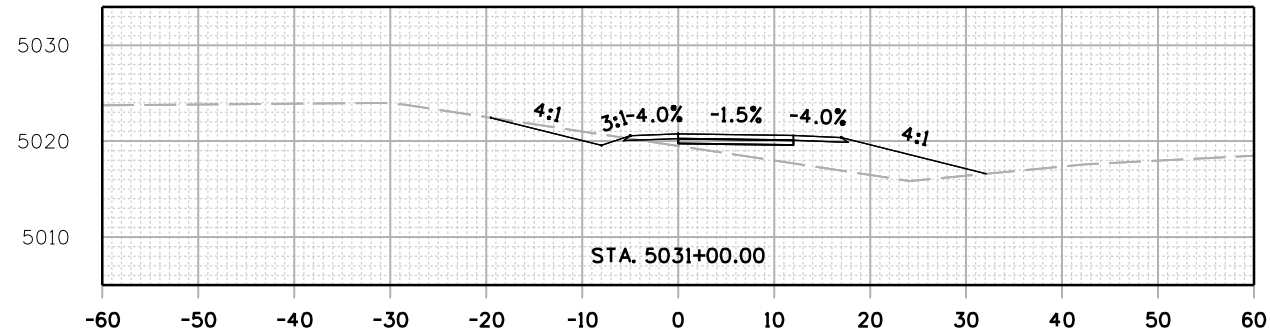
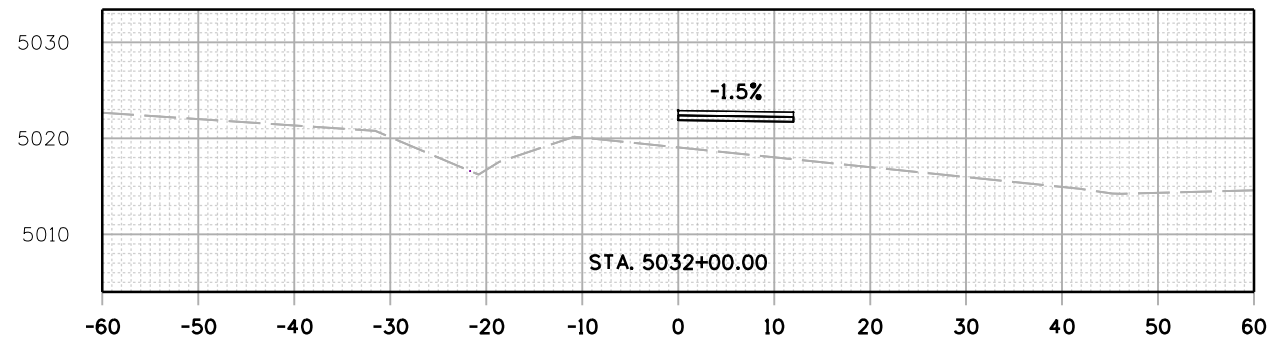


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| CD 119 BIKEWAY CROSS SECTIONS | | | |
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| Designer: | LRN | Structure | |
| Detailer: | PDP | Numbers | |
| Sheet Subset: | XSEC | Subset Sheets: | 80 of 91 |

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| Project No./Code |
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| Sheet Number 262 |

jashagun 5:35:30 PM pwr:/mullereng-pw-bentley.com/mullereng/2021/Projects/21-015.01 CD 119 Bikeway/01 Pre-Construction/Roadway/21015_RD_SHEET_119BW(SEG5)_XSEC



All seals for this set of drawings are applied to the cover page(s)

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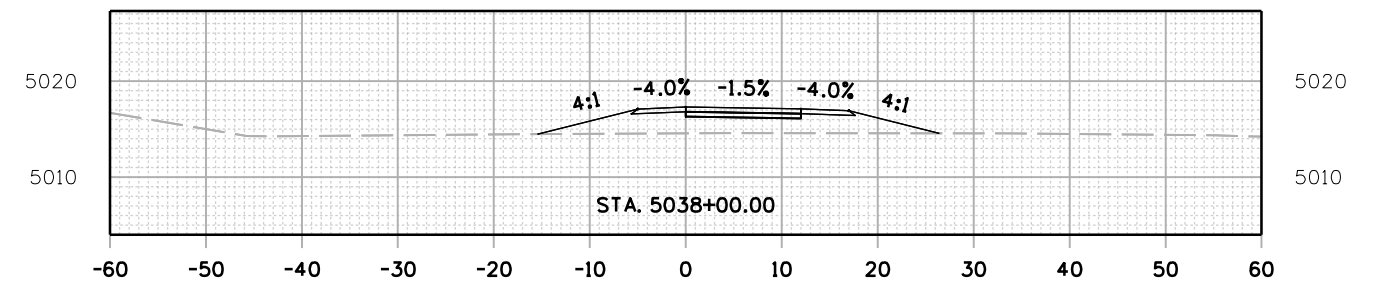
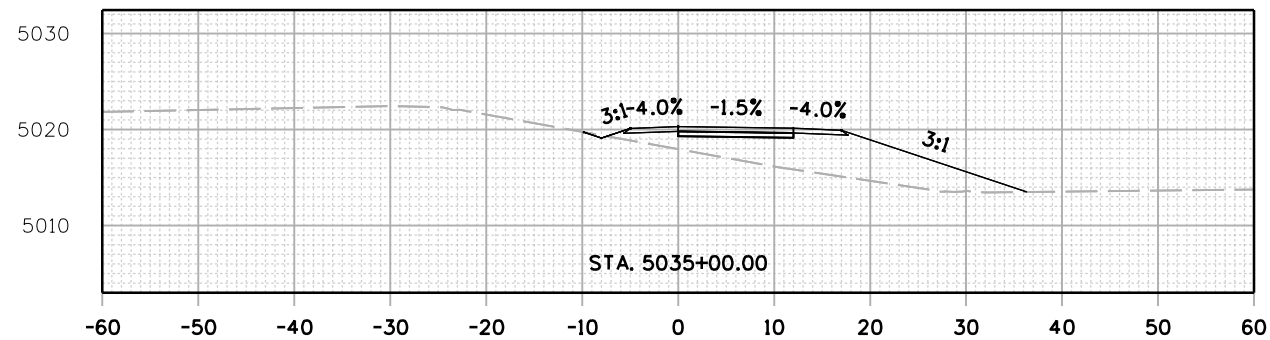
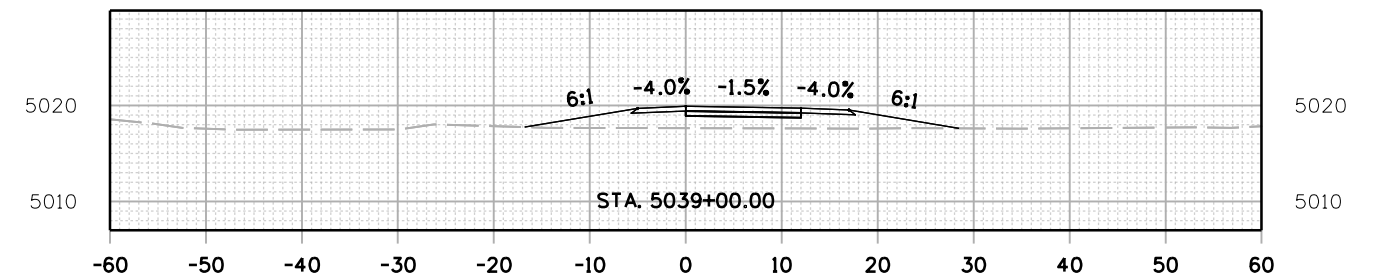
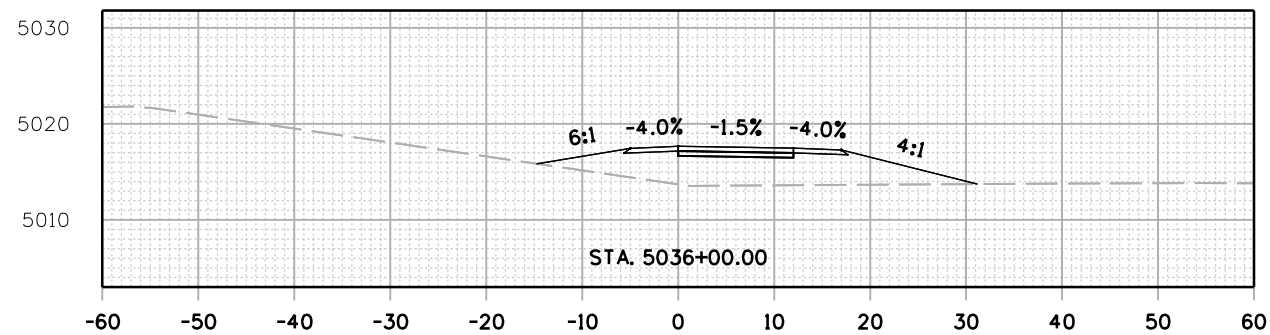
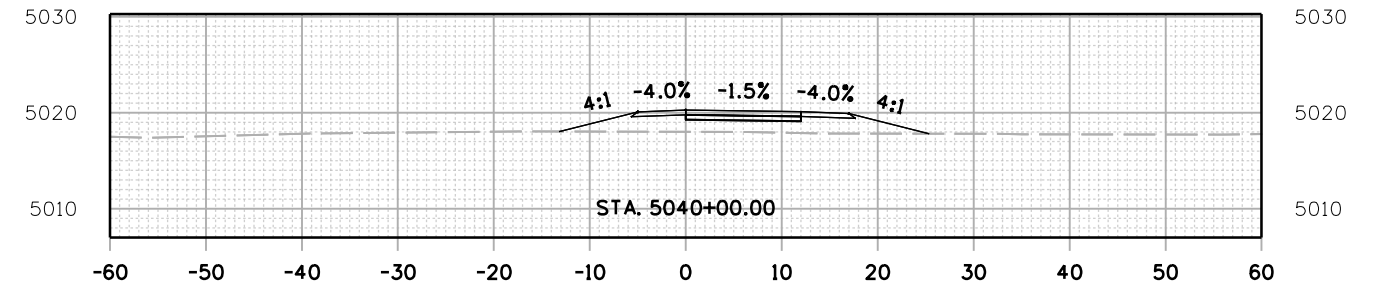
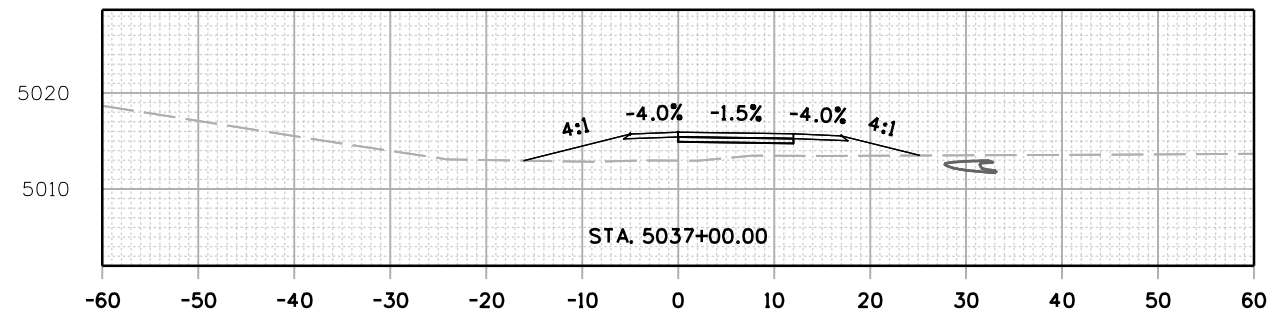


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| CD 119 BIKEWAY CROSS SECTIONS | | | |
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| Designer: | LRN | Structure | Numbers |
| Detailer: | PDP | | |
| Sheet Subset: | XSEC | Subset Sheets: | 81 of 91 |

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| Project No./Code |
| Sheet Number 263 |

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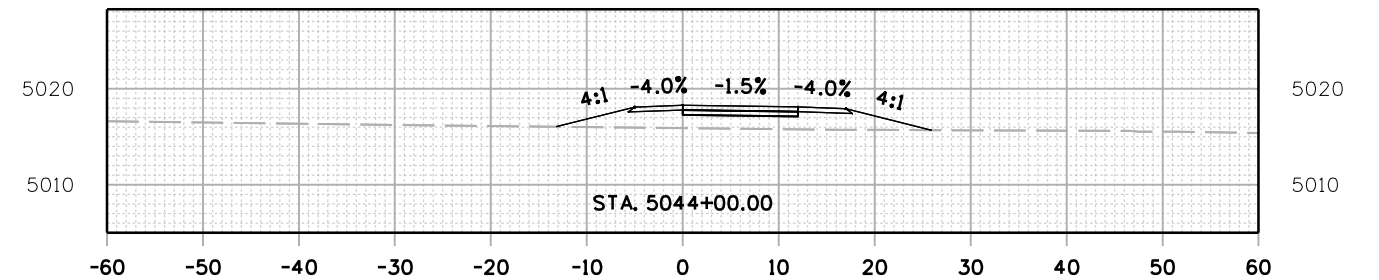
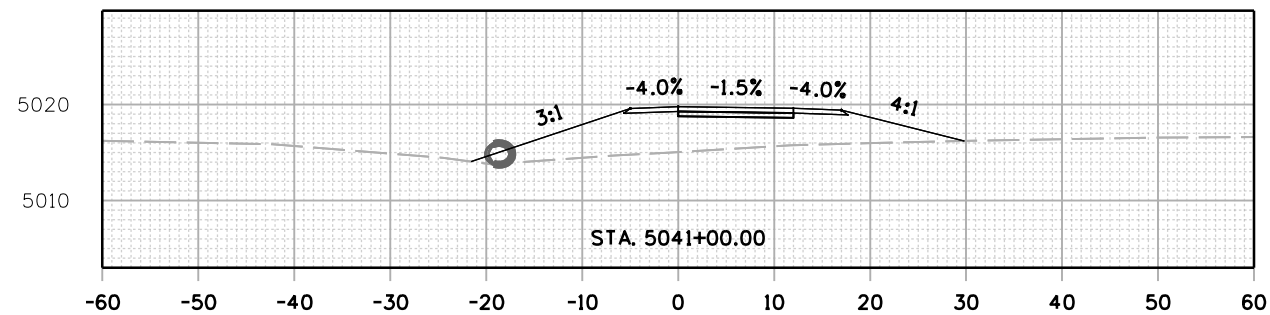
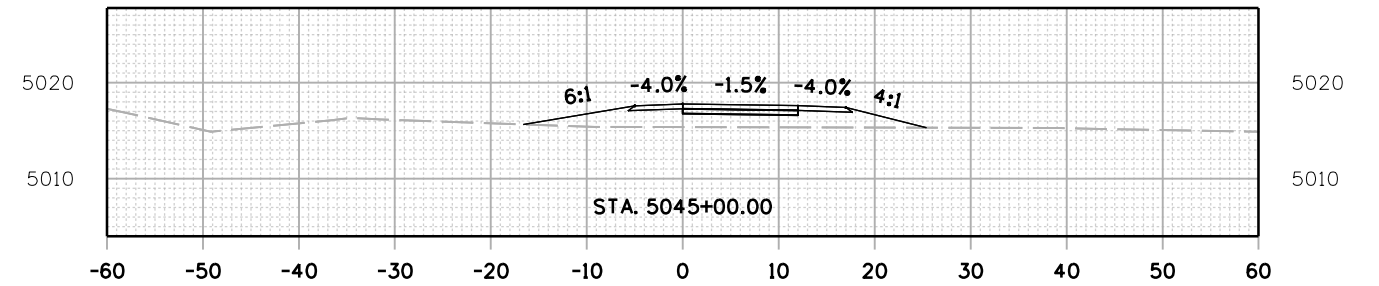
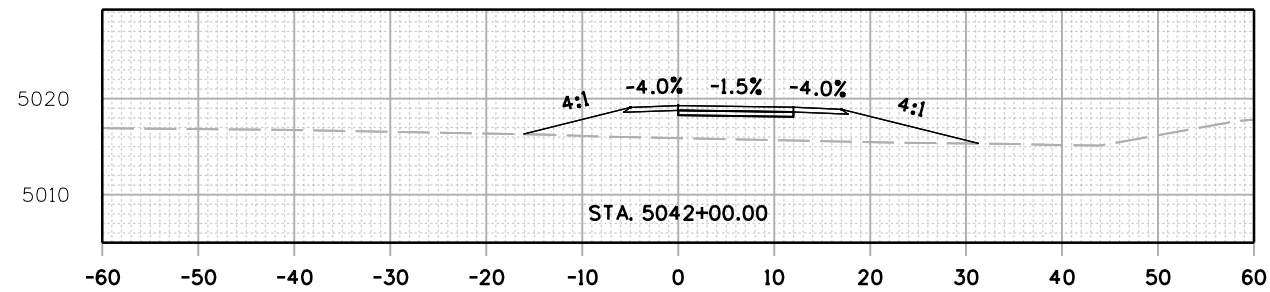
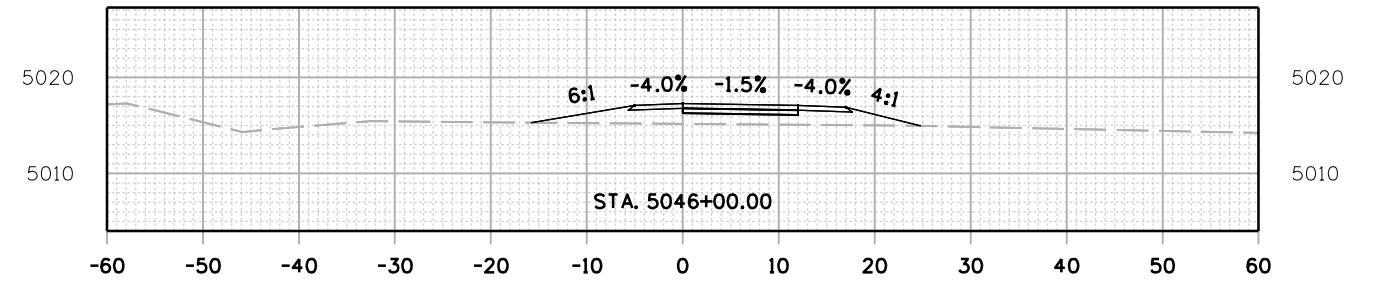
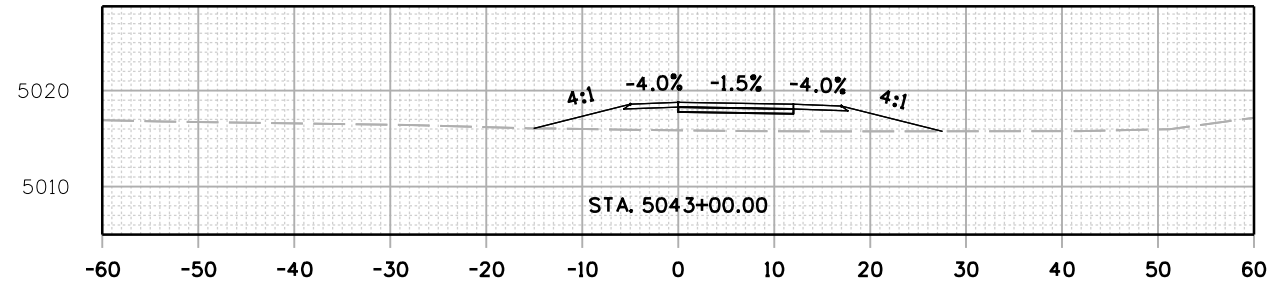
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 Horiz. Scale: Vert. Scale: As Noted
 Unit Information

| Sheet Revisions | | |
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| As Constructed | | CD 119 BIKEWAY CROSS SECTIONS | | | Project No./Code |
|----------------|--|-------------------------------|------|-------------------------|------------------|
| No Revisions: | | | | | |
| Revised: | | Designer: | LRN | Structure Numbers | |
| Void: | | Detailer: | PDP | | |
| | | Sheet Subset: | XSEC | Subset Sheets: 82 of 91 | Sheet Number 264 |

jashagun 5:37:07 PM pwr:/mullereng-pw-bentley.com/mullereng-pw-01/Documents/2021 Projects/21-015.01 CD 119 Bikeway/01 Pre-Construction/Roadway/21015_RD_SHEET_119BW(SEG5)_XSEC



All seals for this set of drawings are applied to the cover page(s)

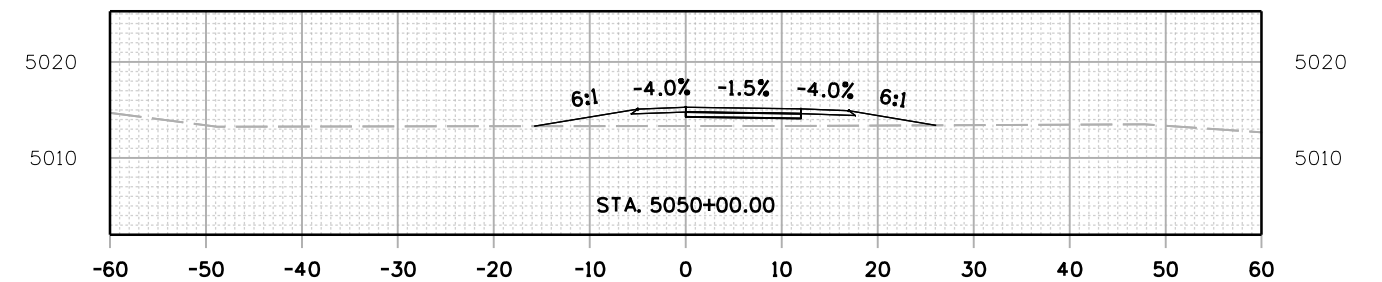
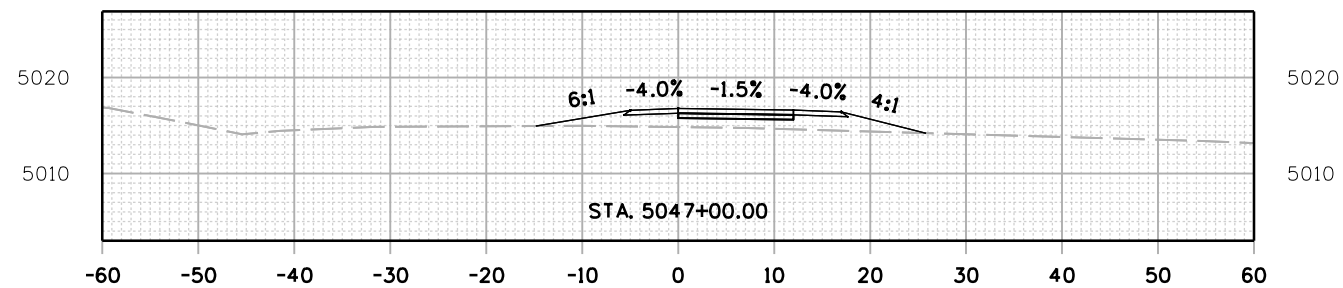
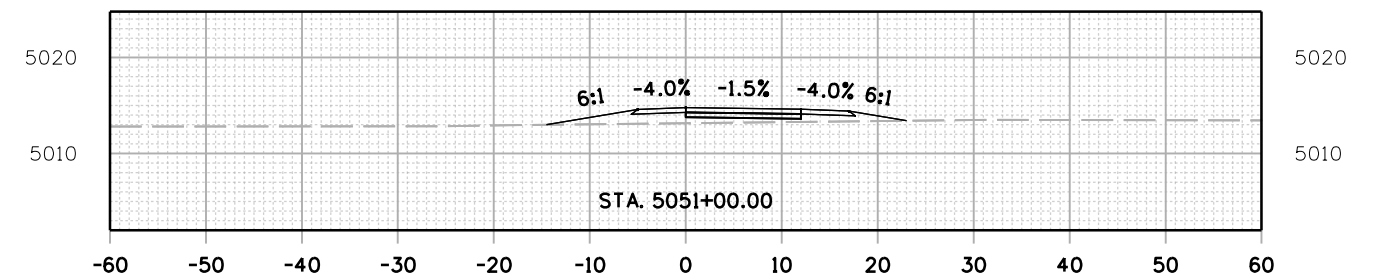
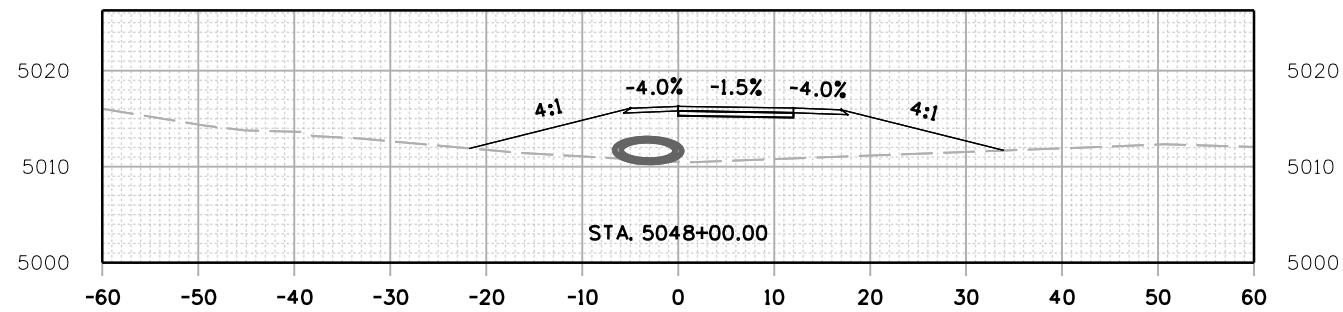
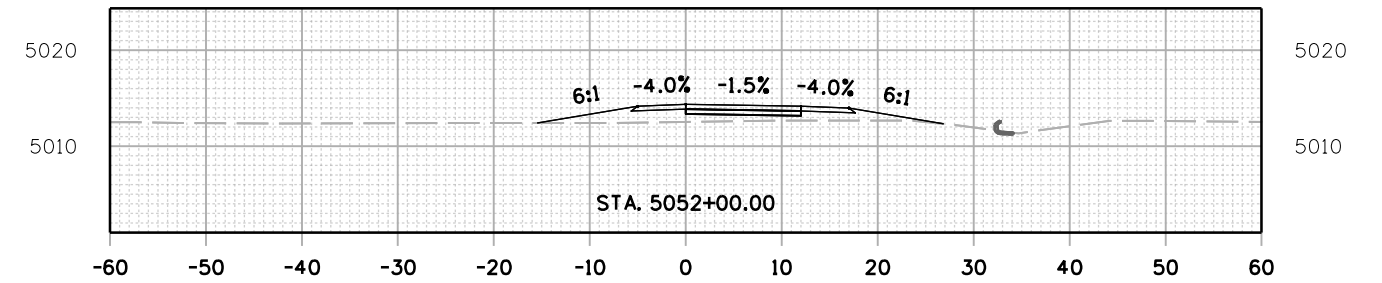
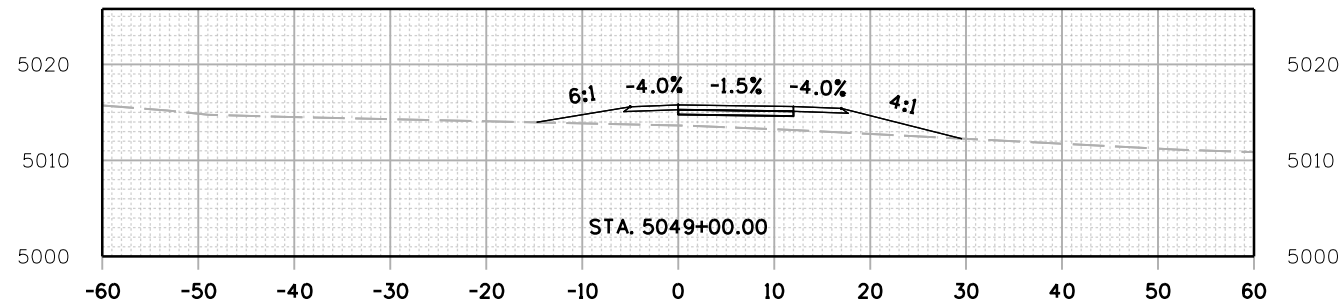
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 Unit Information

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| CD 119 BIKEWAY | | | | Project No./Code |
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| CROSS SECTIONS | | | | |
| As Constructed | | | | Sheet Number 265 |
| No Revisions: | | | | |
| Revised: | Designer: | LRN | Structure Numbers | |
| Void: | Detailer: | PDP | | |
| Sheet Subset: XSEC | | Subset Sheets: 83 of 91 | | |

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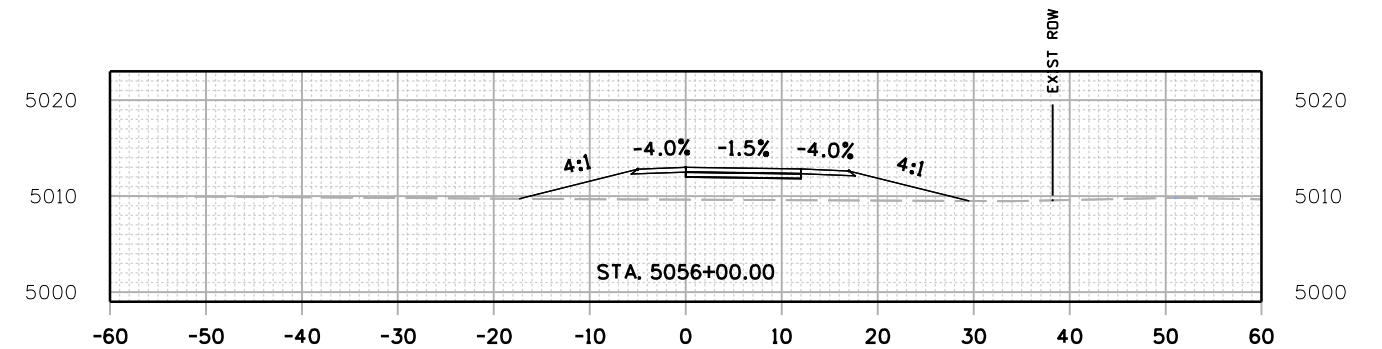
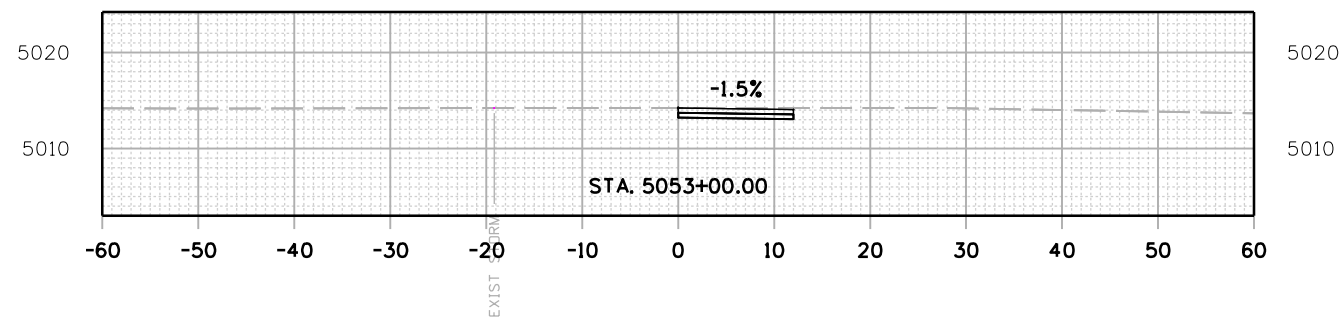
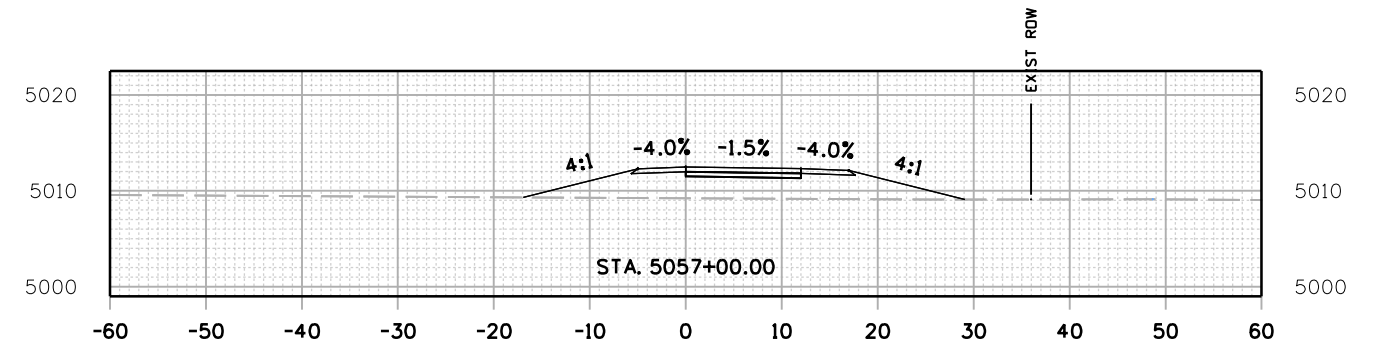
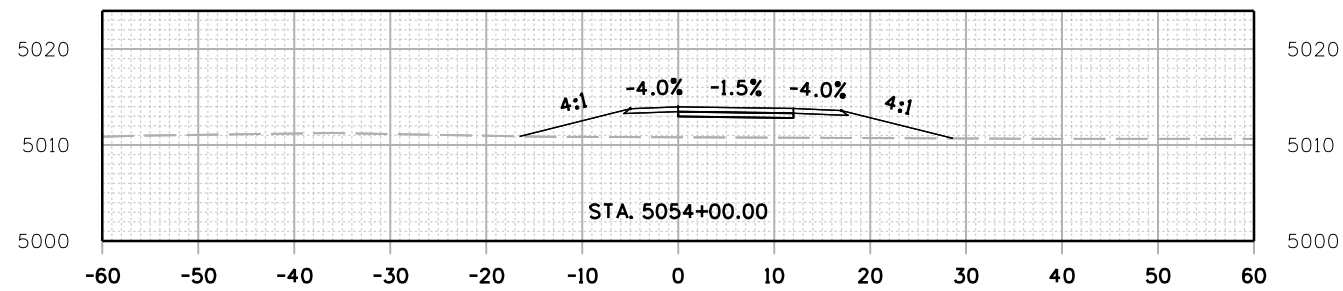
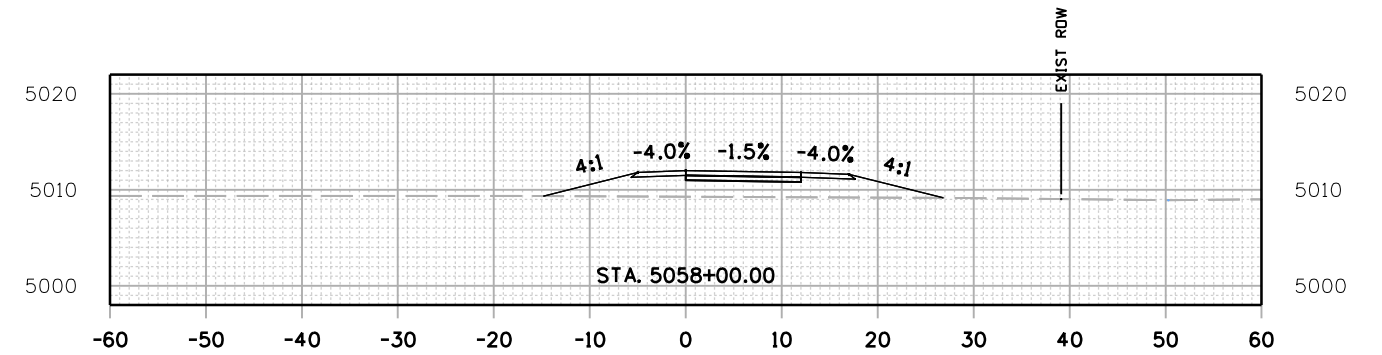
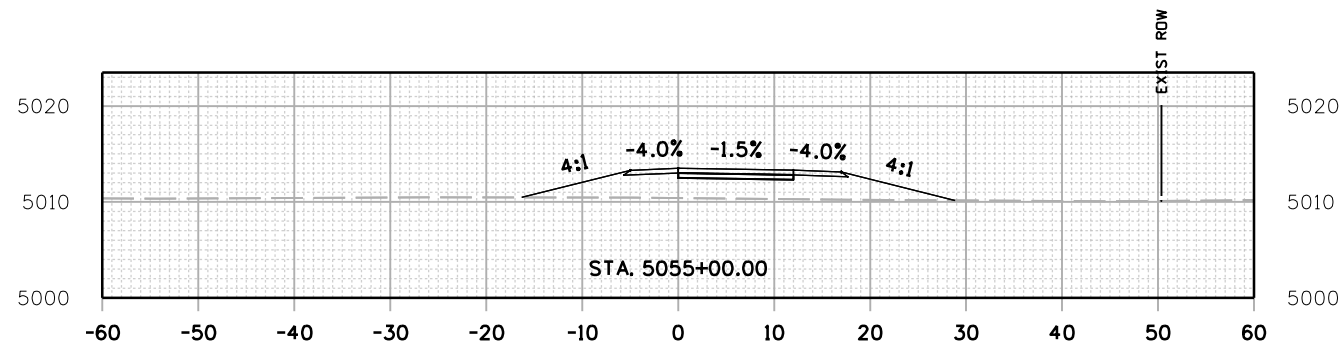
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| As Constructed No Revisions: Revised: Void: | CD 119 BIKEWAY CROSS SECTIONS | | | Project No./Code |
| | Designer: | LRN | Structure Numbers | |
| | Detailer: | PDP | | |
| | Sheet Subset: | XSEC | Subset Sheets: 84 of 91 | Sheet Number 266 |

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All seals for this set of drawings are applied to the cover page(s)

Print Date: 28-JUN-2022
 File Name: 21015_RD_SHEET_119BW(SEG5)_XSEC.dgn
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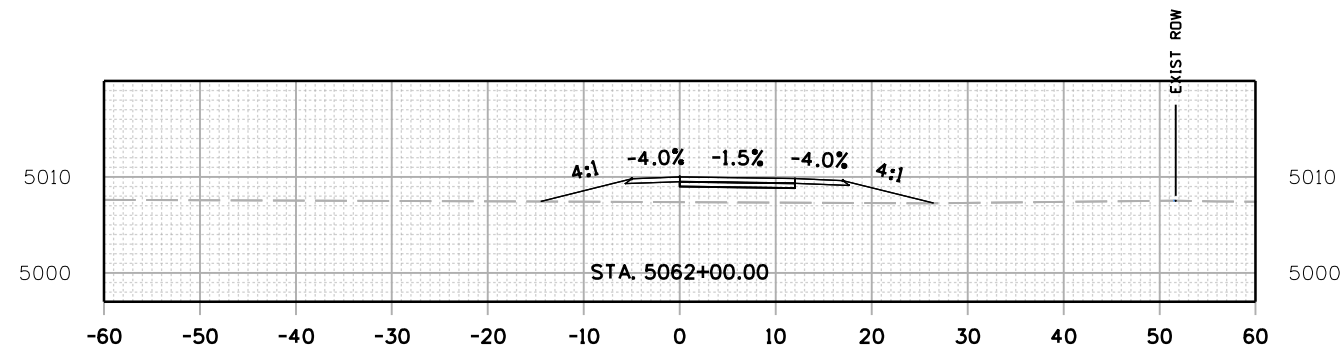
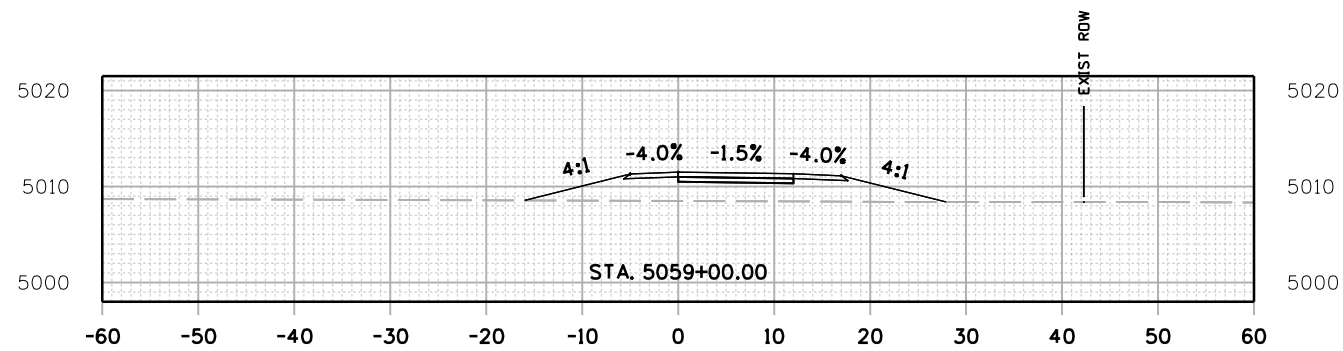
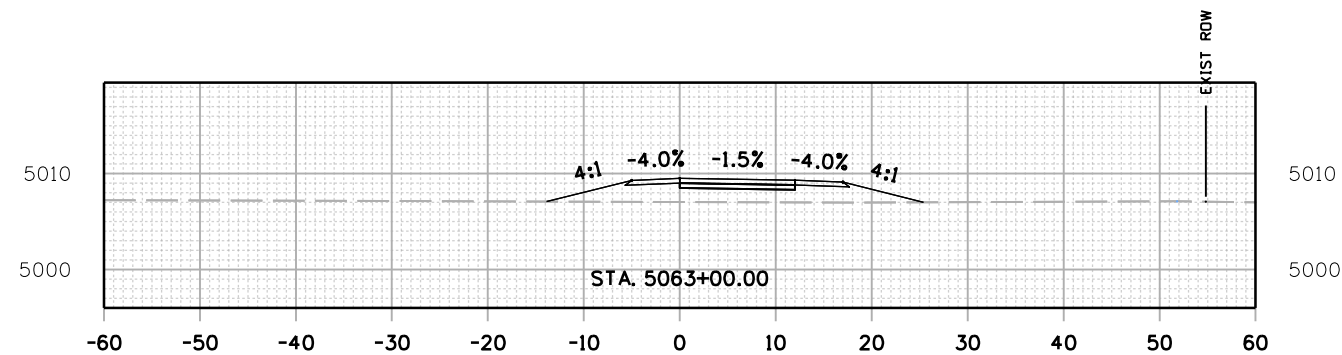
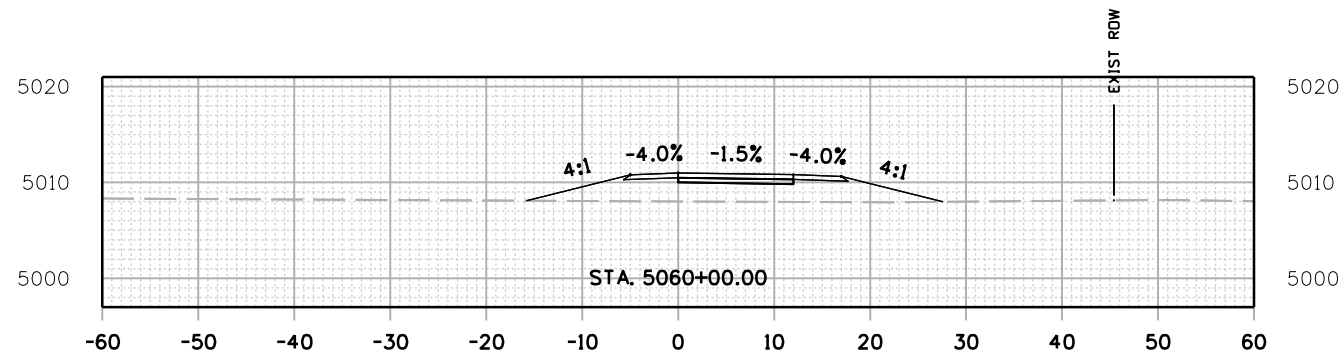
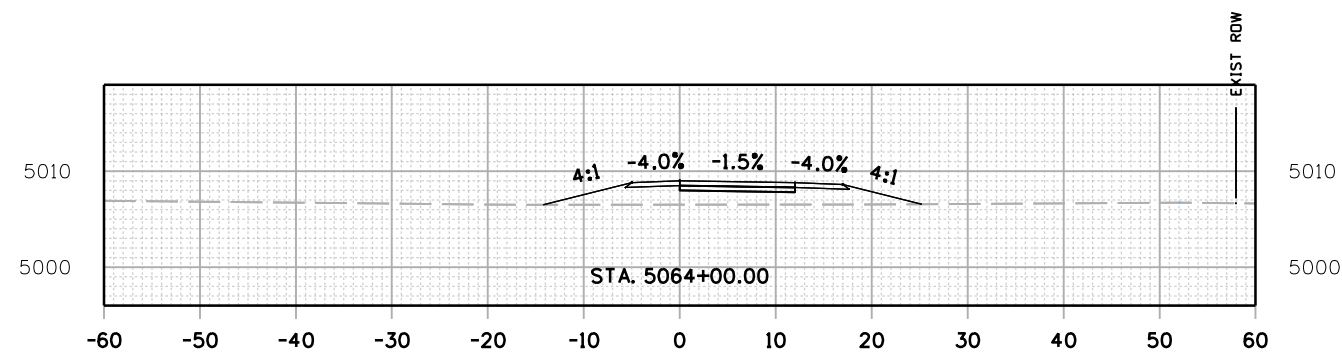
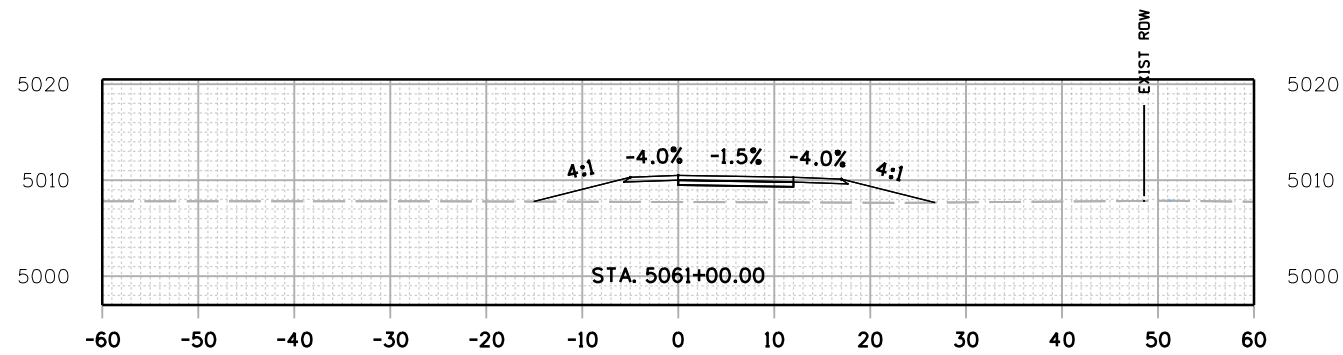


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 No Revisions:
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| CD 119 BIKEWAY CROSS SECTIONS | | | |
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| Designer: | LRN | Structure | Numbers |
| Detailer: | PDP | Structure | Numbers |
| Sheet Subset: | XSEC | Subset Sheets: | 85 of 91 |

Project No./Code
 Sheet Number 267

jashagun 5:39:42 PM pwr:/mullereng-pw-bentley.com/mullereng/2021/Projects/21-015,01 CD 119 Bikeway/01 Pre-Construction/Roadway/21015_RD_SHEET_119BW(SEG5)_XSEC



All seals for this set of drawings are applied to the cover page(s)

Print Date: 28-JUN-2022
 File Name: 21015_RD_SHEET_119BW(SEG5)_XSEC.dgn
 Horiz. Scale: Vert. Scale: As Noted
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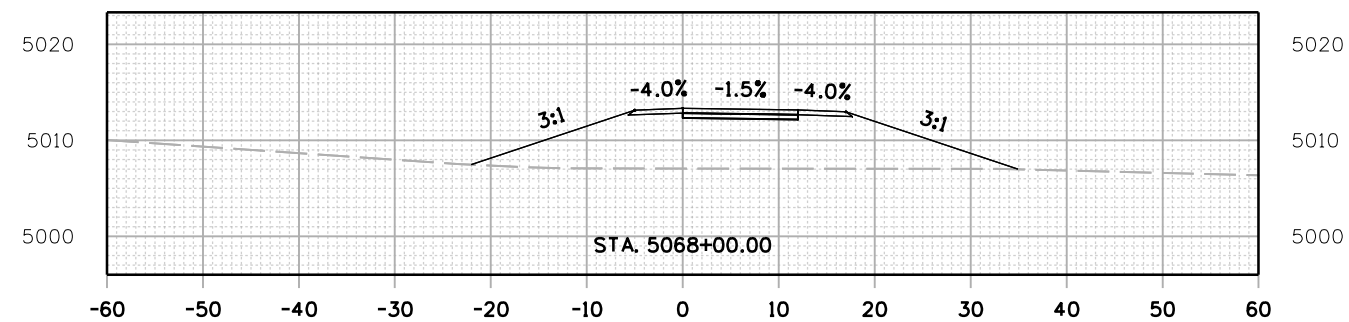
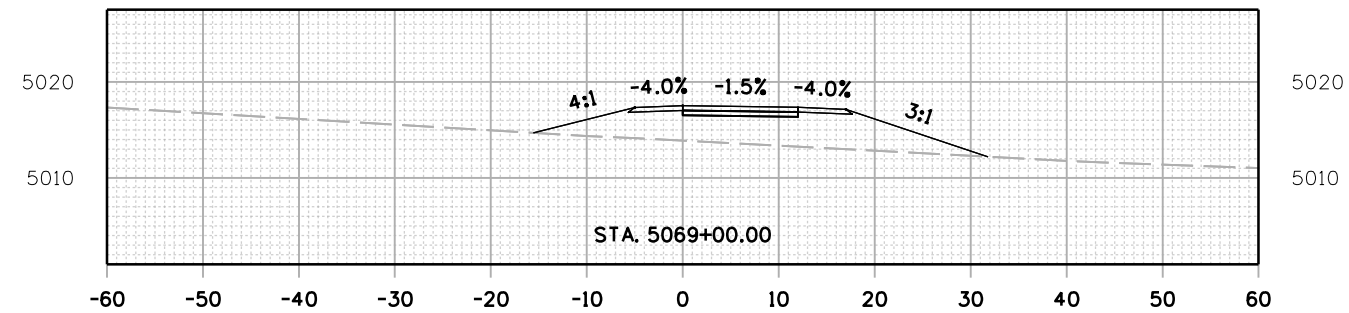
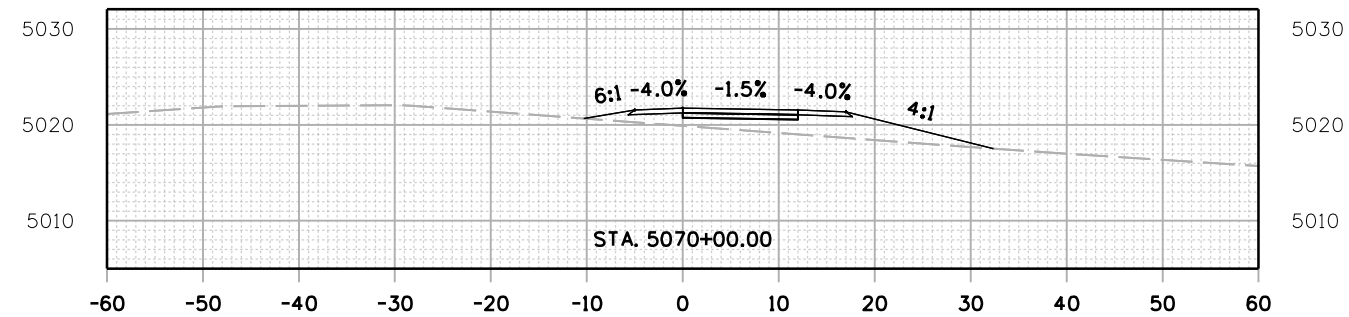
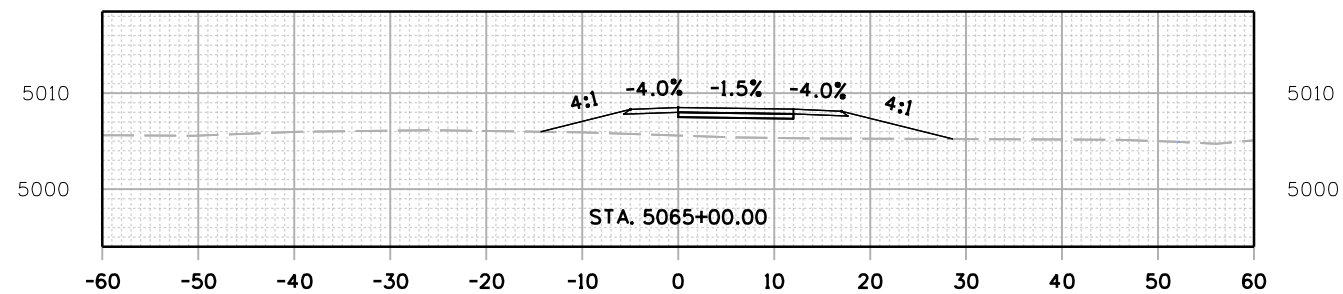
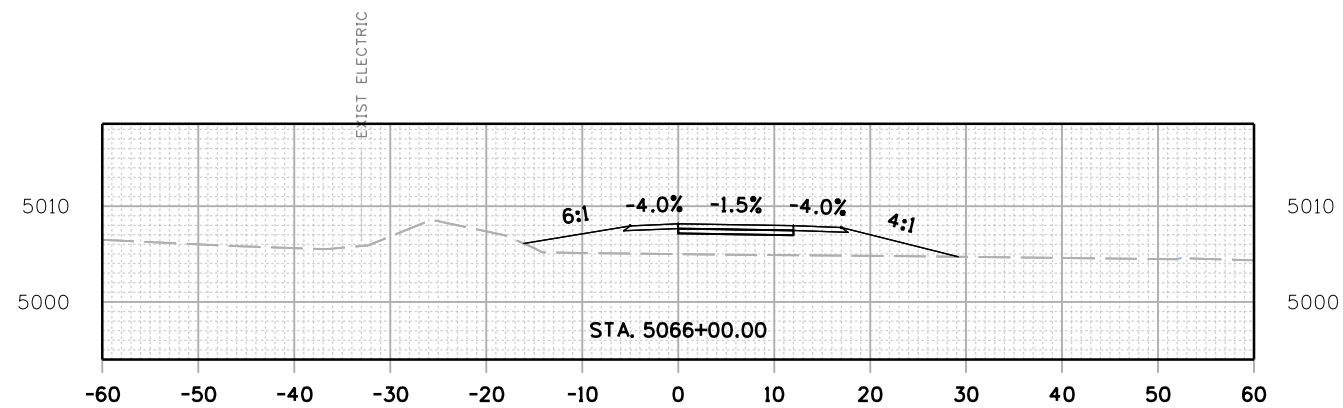
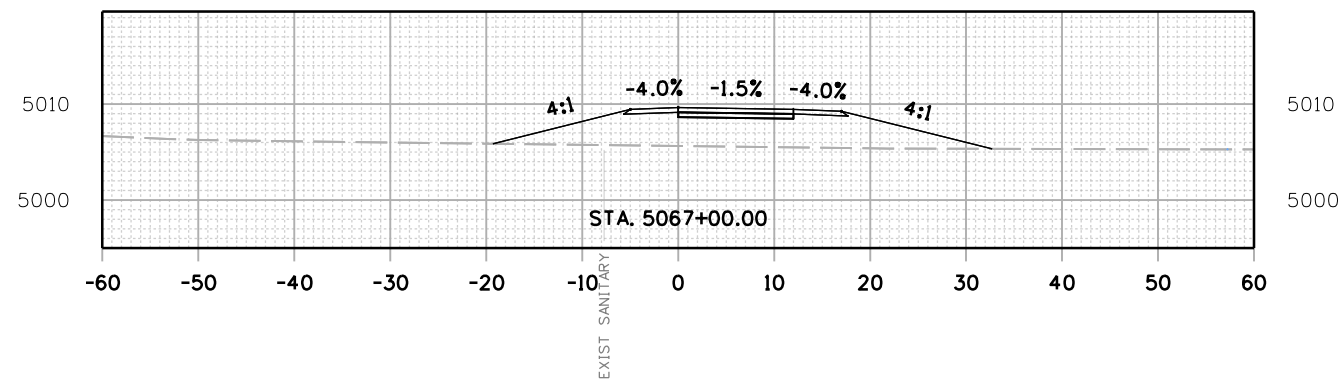


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| No Revisions: |
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| Void: |

| CD 119 BIKEWAY CROSS SECTIONS | | | |
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| Designer: | LRN | Structure | Numbers |
| Detailer: | PDP | Subset Sheets: | 86 of 91 |
| Sheet Subset: | XSEC | | |

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| Project No./Code |
| Sheet Number 268 |

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All seals for this set of drawings are applied to the cover page(s)

Print Date: 28-JUN-2022
 File Name: 21015_RD_SHEET_119BW(SEG5)_XSEC.dgn
 Horiz. Scale: Vert. Scale: As Noted
 Unit Information

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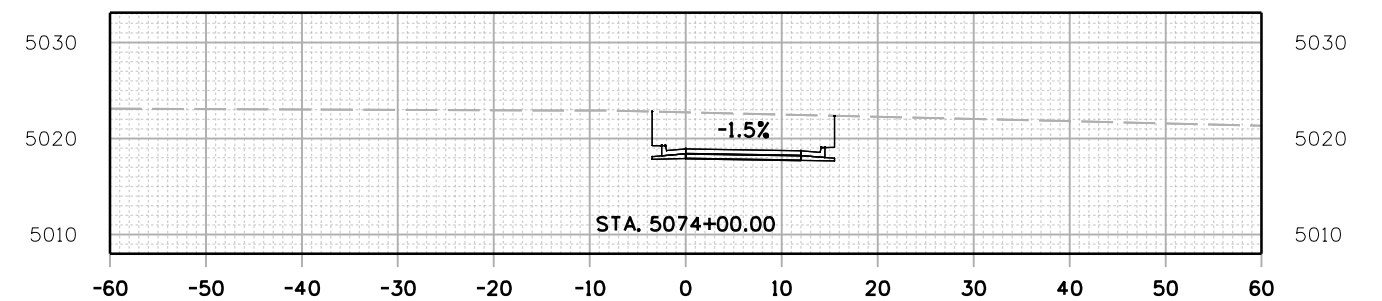
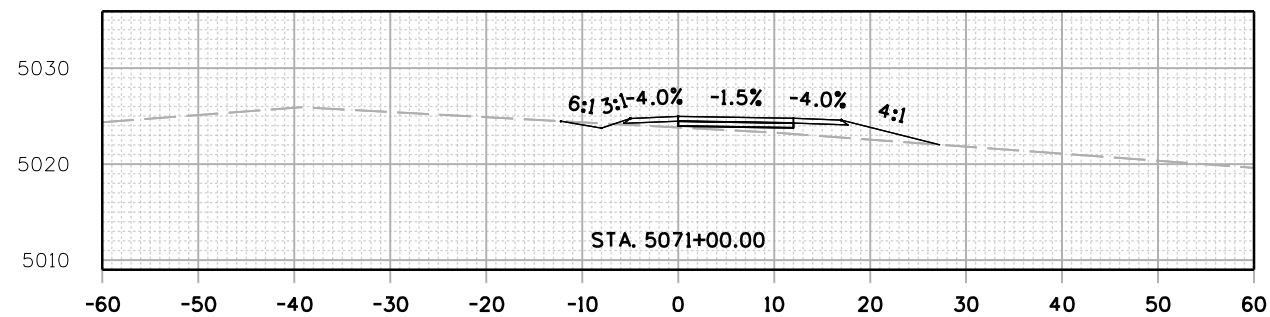
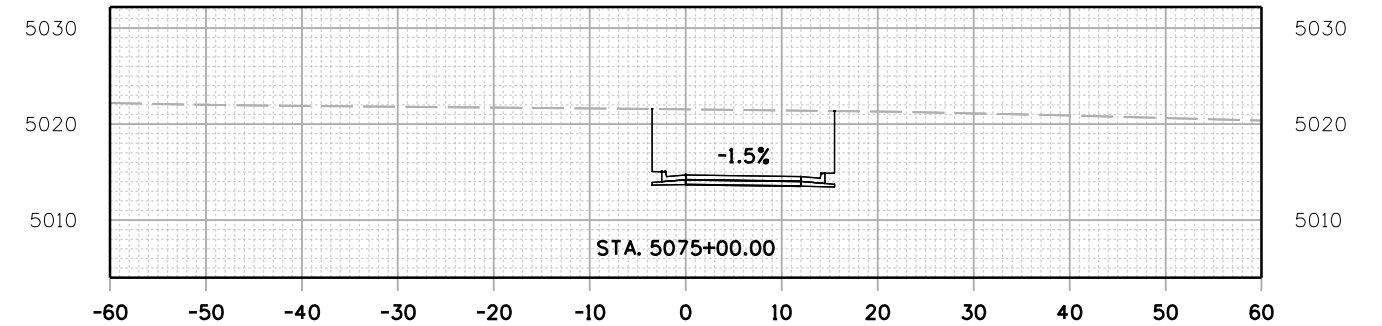
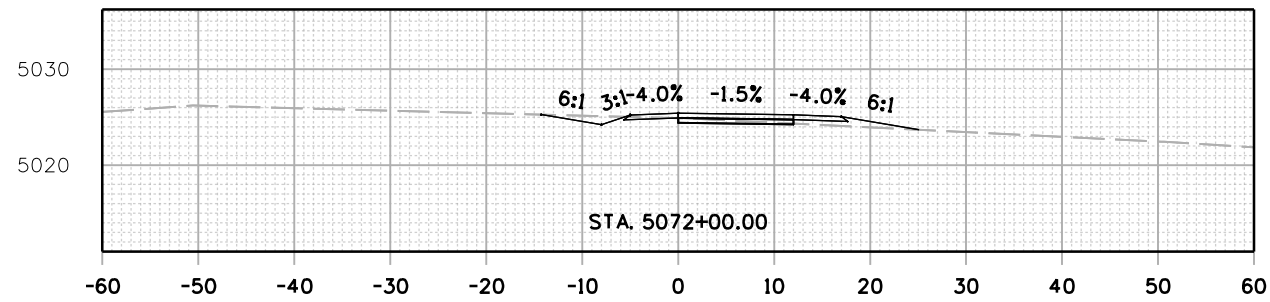
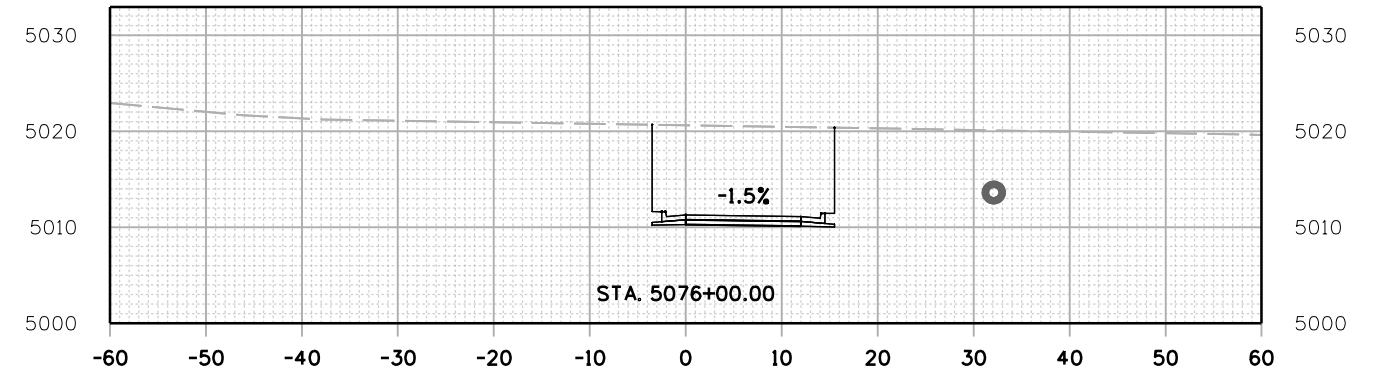
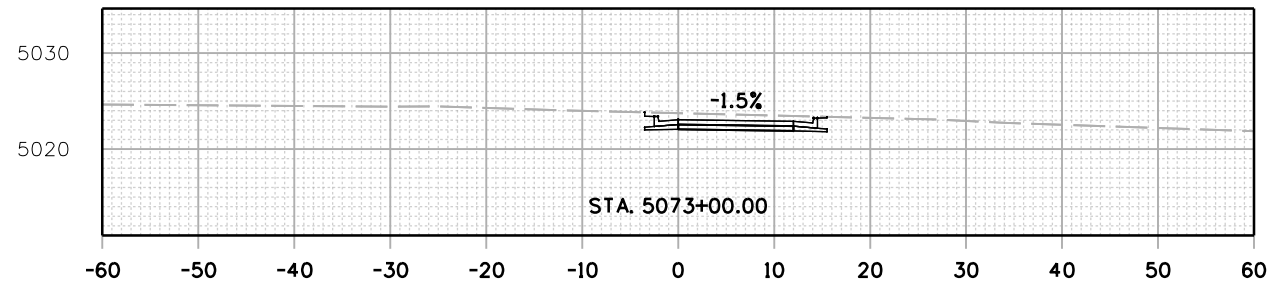


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 No Revisions:
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| CD 119 BIKEWAY CROSS SECTIONS | | | |
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| Designer: | LRN | Structure | Numbers |
| Detailer: | PDP | Subset Sheets: | 87 of 91 |
| Sheet Subset: | XSEC | | |

Project No./Code
 Sheet Number 269

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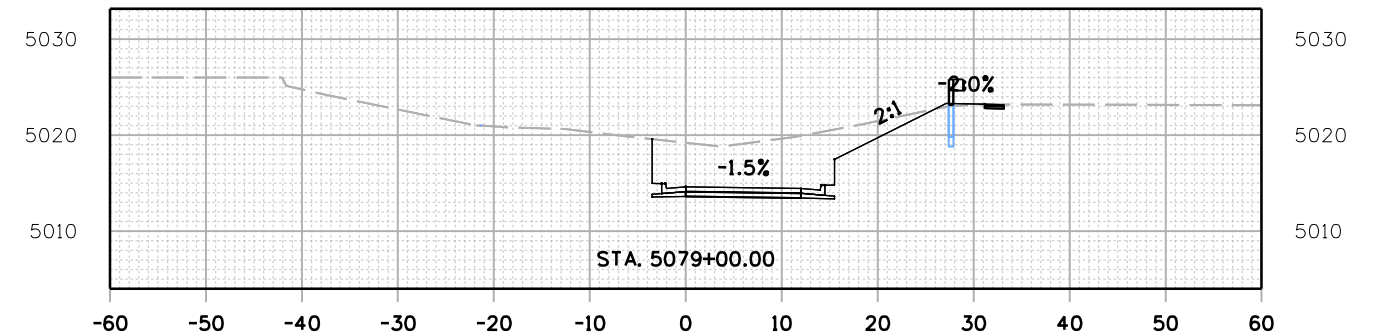
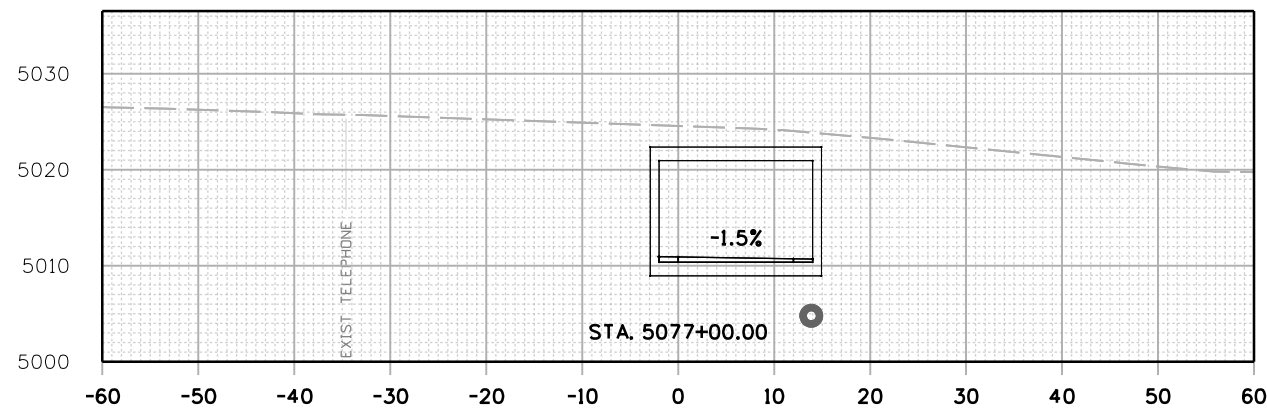
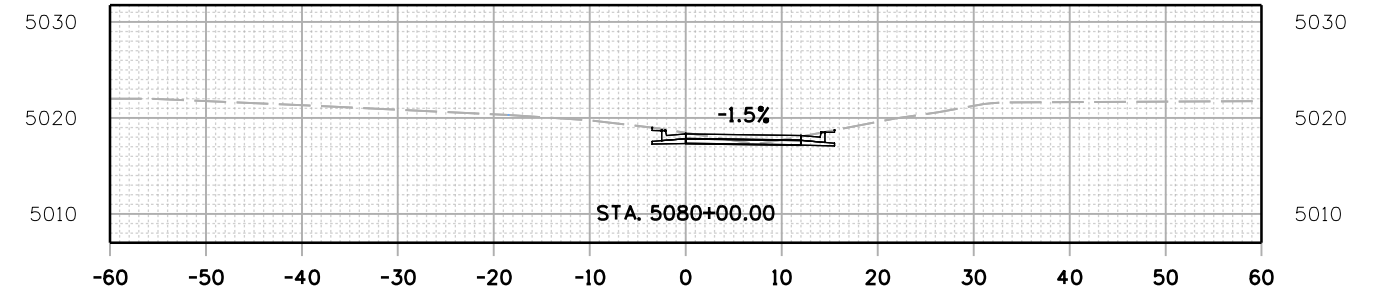
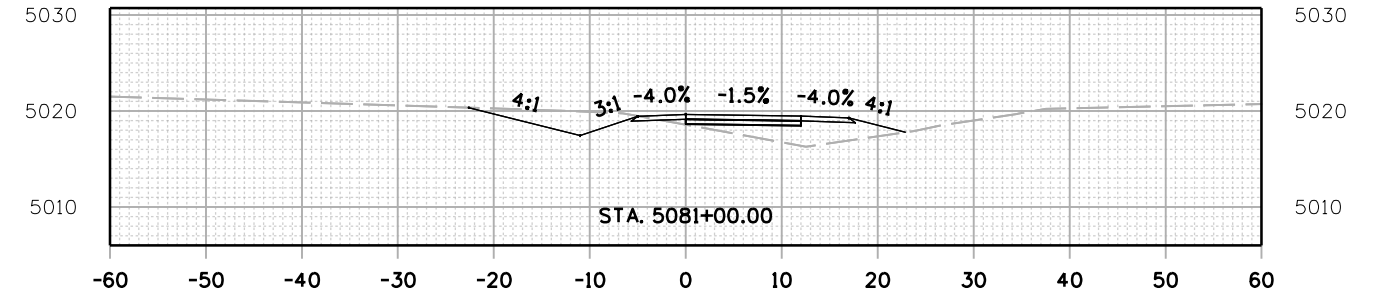
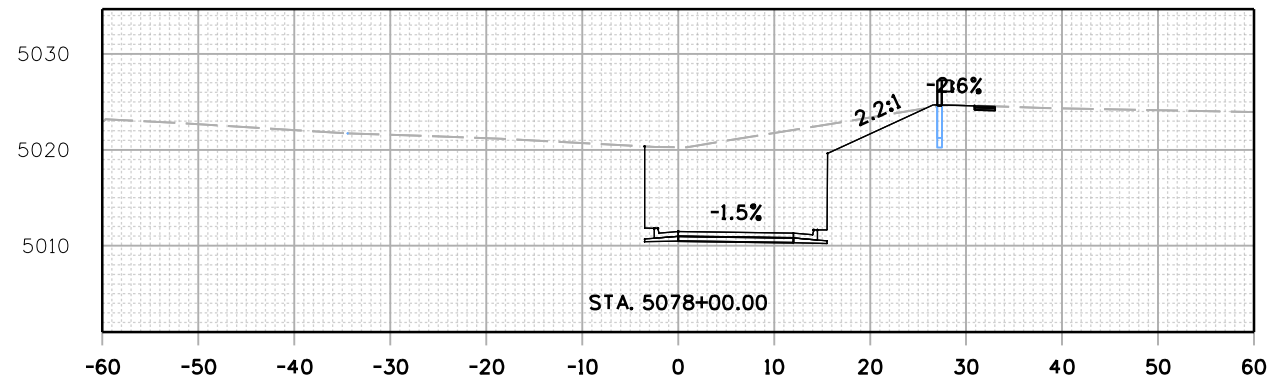
Print Date: 28-JUN-2022
 File Name: 21015_RD_SHEET_119BW(SEG5)_XSEC.dgn
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| As Constructed No Revisions: Revised: Void: | CD 119 BIKEWAY CROSS SECTIONS | | | Project No./Code |
| | Designer: | LRN | Structure Numbers | |
| | Detailer: | PDP | | |
| | Sheet Subset: | XSEC | Subset Sheets: 88 of 91 | Sheet Number 270 |

jashagun 5:42:17 PM pwr://mullereng-pw-bentley.com/mullereng-pw-01/Documents/2021 Projects/21-015.01 CO 119 Bikeway/01 Pre-Construction/Roadway/21015_RD_SHEET_119BW(SEG5)_XSEC



All seals for this set of drawings are applied to the cover page(s)

Print Date: 28-JUN-2022
 File Name: 21015_RD_SHEET_119BW(SEG5)_XSEC.dgn
 Horiz. Scale: Vert. Scale: As Noted
 Unit Information

Sheet Revisions

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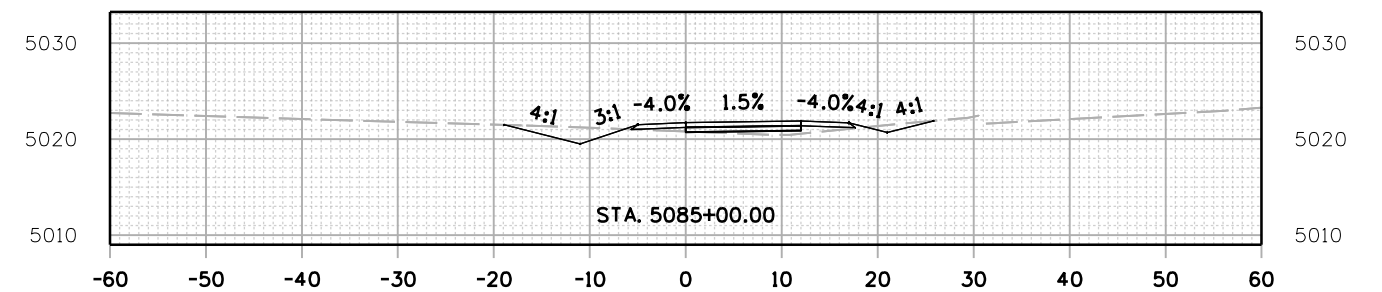
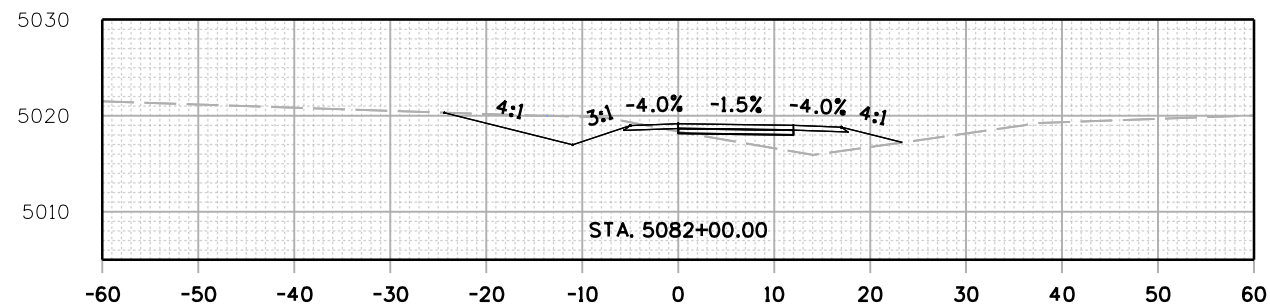
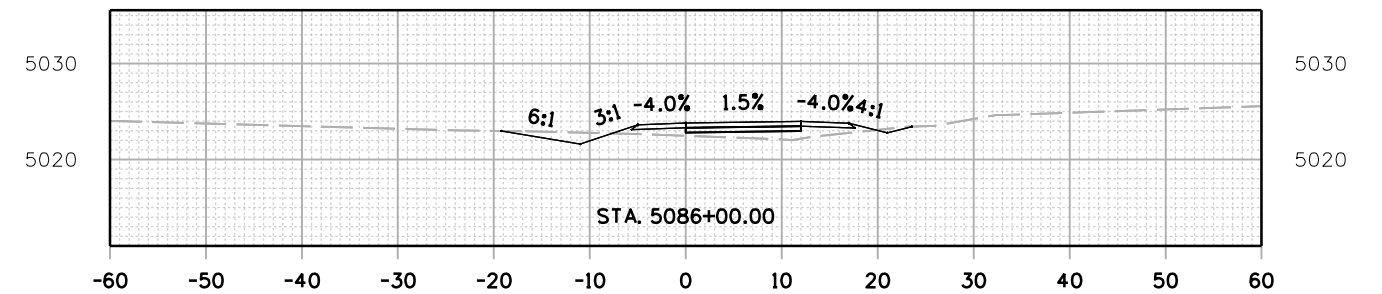
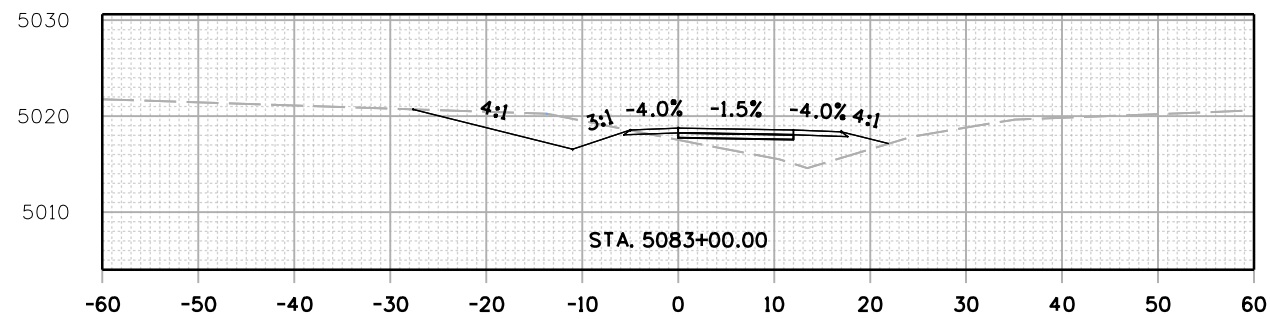
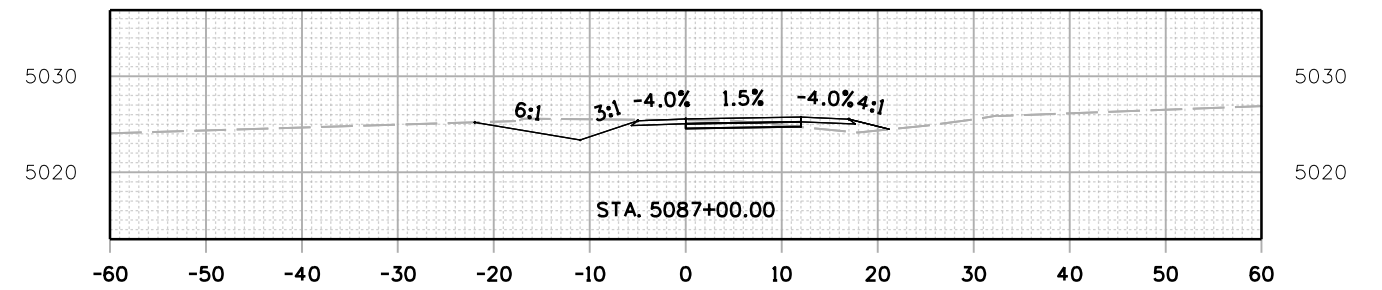
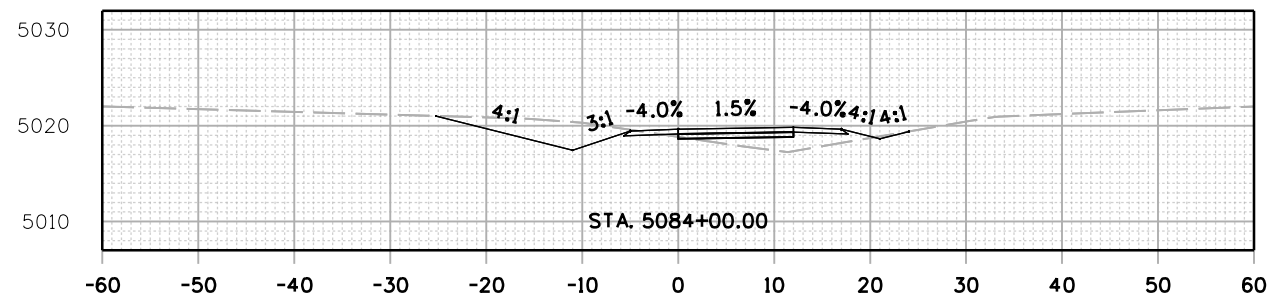
As Constructed
 No Revisions:
 Revised:
 Void:

CD 119 BIKEWAY
 CROSS SECTIONS

Designer: LRN
 Detailer: PDP
 Sheet Subset: XSEC
 Structure Numbers:
 Subset Sheets: 89 of 91

Project No./Code
 Sheet Number 271

jashagun 5:43:01 PM p:\mullereng-pw-bentley.com\mullereng-pw-01\Documents\2021 Projects\21-015.01 CD 119 Bikeway\01 Pre-Construction/Roadway\21015_RD_SHEET_119BW(SEG5)_XSEC



All seals for this set of drawings are applied to the cover page(s)

Print Date: 28-JUN-2022
 File Name: 21015_RD_SHEET_119BW(SEG5)_XSEC.dgn
 Horiz. Scale: Vert. Scale: As Noted
 Unit Information

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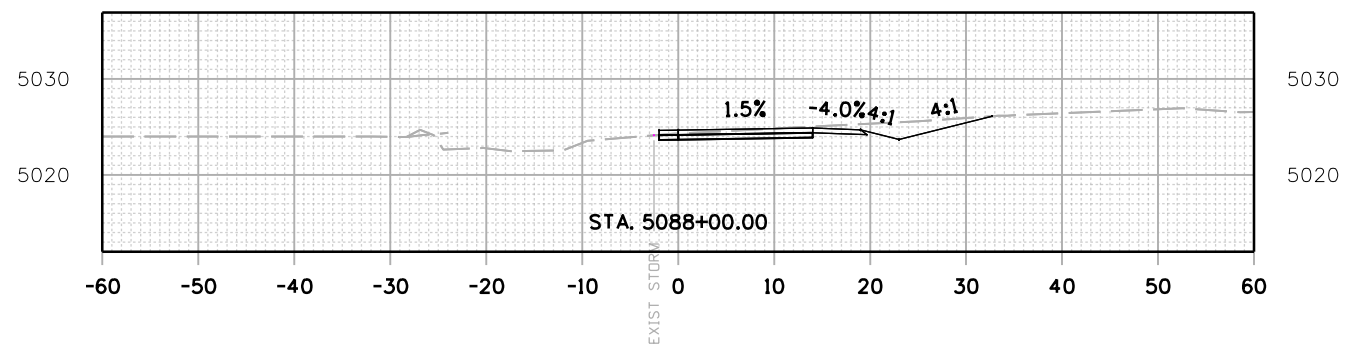


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| CD 119 BIKEWAY CROSS SECTIONS | | | |
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| Designer: | LRN | Structure | Numbers |
| Detailer: | PDP | Subset Sheets: | 90 of 91 |
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| Project No./Code |
| Sheet Number 272 |

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| Print Date: 28-JUN-2022 |
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| | CROSS SECTIONS | | | |
| | No Revisions: | Designer: LRN | Structure Numbers | Sheet Number 273 |
| | Revised: | Detailer: PDP | | |
| Void: | Sheet Subset: XSEC | Subset Sheets: 91 of 91 | | |