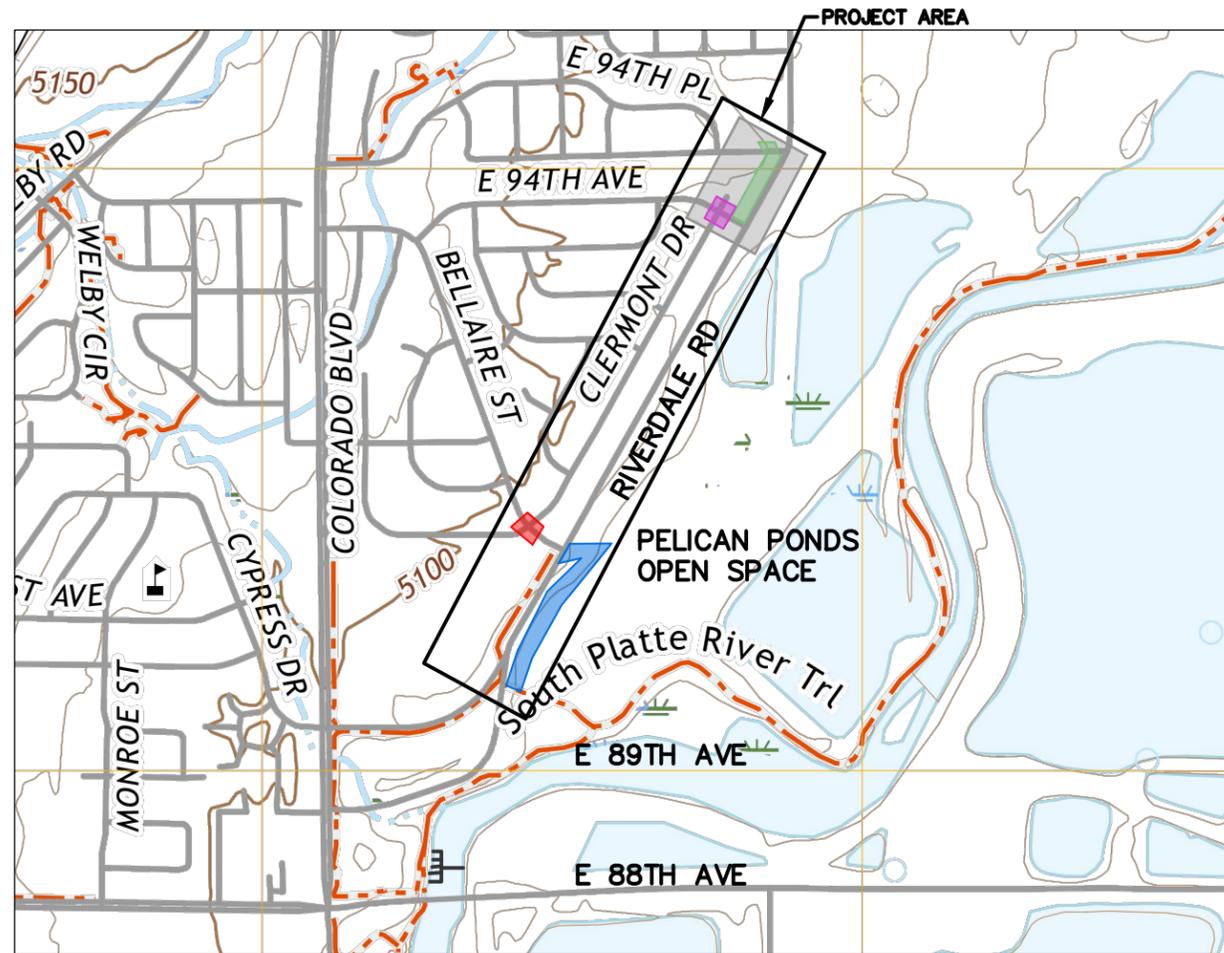
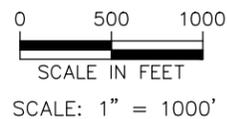


CITY OF THORNTON, COLORADO
 DESIGN PLANS OF PROPOSED
RIVERDALE TRAIL CONNECTION
 CITY OF THORNTON PROJECT NO. 21-674G
 ADAMS COUNTY, COLORADO

TABULATION OF LENGTH		
STATION	LINEAR FEET	
TRAIL - SITE A		
BEGIN SITE A = STA. 03+27.80	1155.47	
END SITE A = STA 14+83.27		
ADA RAMPS - SITE B		
BELLAIRE ST AND E 91ST DR	30	
BELLAIRE ST AND CLERMONT DR	20	
ADA RAMPS - SITE D		
E 94TH AVE AND CLERMONT DR (SOUTH)	30	
E 94TH AVE AND CLERMONT DR (NORTH)	20	
SIDEWALK - SITE C		
BEGIN SITE C = STA. 99+98.06	487.52	
END SITE C = STA 104+85.56		
TOTAL	1,742.99	
SUMMARY OF PROJECT LENGTH	FEET	MILES
PROJECT GROSS LENGTH	1,742.99	0.330



PROJECT LOCATION MAP



SHEET NO.	INDEX OF SHEETS
1	TITLE SHEET
2	STANDARD PLANS LIST
3-5	PROJECT CONTROL DIAGRAM
6	TYPICAL SECTIONS
7	GENERAL NOTES
8-9	GEOMETRIC PLANS
10	SUMMARY OF APPROXIMATE QUANTITIES
11	TABULATIONS
12	DETAILS
13-19	REMOVAL PLANS
20-24	PLANS AND PROFILES - SITE A
25-26	PLANS - SITE B & D
27-28	PLANS AND PROFILES - SITE C
29-30	UTILITY PLANS
31-33	STORMWATER MANAGEMENT PLAN
34	SUGGESTED TRAFFIC CONTROL SHEET
35-39	CROSS SECTIONS - SITE A
40-41	CROSS SECTIONS - SITE C

- SITE A - TRAIL IMPROVEMENTS
- SITE B - ADA RAMP IMPROVEMENTS (BELLAIRE ST & CLERMONT DR)
- SITE C - SIDEWALK ADDITION
- SITE D - ADA RAMP IMPROVEMENTS (E 94TH AVE & CLERMONT DR)

Grey boxes denote not issued for bid, applicable to all plan sheets

PROJECT LIST OF CONTACTS		
CITY OF THORNTON	CLAIRE DREESEN	720-977-6247
ADAMS COUNTY	TREVOR GRAF	720-280-7267



Print Date: 2/26/2024
File Name: GN-001 TITLE SHEET.DWG
Horiz. Scale: As Noted Vert. Scale: N/A
RockSol Consulting Group, Inc. 12076 Grant Street Thornton, CO 80241 Ph: (303) 962-9300 Fax: (303) 962-9350

Sheet Revisions		
Date	Comments	Initials



THORNTON PUBLIC WORKS
 12450 WASHINGTON ST.
 THORNTON, CO 80241

Issued for Bid
No Revisions:
Revised:
Void:

RIVERDALE TRAIL CONNECTION TITLE SHEET			
Designer:	S. SCOTT	Structure Numbers	
Detailer:	S. SCOTT		
Sheet Subset:	GENERAL	Subset Sheets:	1 of 2

Project No.
21-674G
Drawing Number GN-001
Sheet Number 1

Plot Date: 2/26/2024 2:19 PM Plotted By: Sophie Scott
 P:\PROJECTS\ACTIVE PROJECTS\2021\CITY OF THORNTON RIVERDALE TRAIL CONNECTION\800_COMPUTER DESIGN FILES\802_SHEET FILES\GN-001 TITLE SHEET.DWG

2/27/2024

PLAN NUMBER	M STANDARD TITLE	PAGE NUMBER
<input checked="" type="checkbox"/> M-100-1	STANDARD SYMBOLS (3 SHEETS).....	1-3
<input type="checkbox"/> M-100-2	ACRONYMS AND ABBREVIATIONS (4 SHEETS).....	4-7
<input type="checkbox"/> M-203-1	APPROACH ROADS.....	8
<input type="checkbox"/> M-203-2	DITCH TYPES.....	9
<input type="checkbox"/> M-203-11	SUPERELEVATION CROWNED AND DIVIDED HIGHWAYS (3 SHEETS).....	10-12
<input type="checkbox"/> M-203-12	SUPERELEVATION STREETS (2 SHEETS).....	13-14
<input type="checkbox"/> M-206-1	EXCAVATION AND BACKFILL FOR STRUCTURES (2 SHEETS).....	15-16
<input type="checkbox"/> M-206-2	EXCAVATION AND BACKFILL FOR BRIDGES (2 SHEETS).....	17-18
<input checked="" type="checkbox"/> M-208-1	TEMPORARY EROSION CONTROL (11 SHEETS).....	19-29
<input type="checkbox"/> M-210-1	MAILBOX SUPPORTS (2 SHEETS).....	30-31
<input type="checkbox"/> M-214-1	NURSERY STOCK DETAILS.....	32
<input type="checkbox"/> M-216-1	SOIL RETENTION COVERING (2 SHEETS).....	33-34
<input type="checkbox"/> M-412-1	CONCRETE PAVEMENT JOINTS (9 SHEETS).....	35-39
	<i>(REVISED ON JANUARY 31, 2022)</i>	
<input type="checkbox"/> M-412-2	CONCRETE PAVEMENT CRACK REPAIR (6 SHEETS).....	
	<i>(REVISED ON SEPTEMBER 6, 2022)</i>	
<input type="checkbox"/> M-510-1	STRUCTURAL PLATE PIPE H-20 LOADING.....	40
<input type="checkbox"/> M-601-1	SINGLE CONCRETE BOX CULVERT (CAST-IN-PLACE) (2 SHEETS).....	41-42
<input type="checkbox"/> M-601-2	DOUBLE CONCRETE BOX CULVERT (CAST-IN-PLACE) (2 SHEETS).....	43-44
<input type="checkbox"/> M-601-3	TRIPLE CONCRETE BOX CULVERT (CAST-IN-PLACE) (2 SHEETS).....	45-46
<input type="checkbox"/> M-601-10	HEADWALL FOR PIPES.....	47
<input type="checkbox"/> M-601-11	TYPE "S" SADDLE HEADWALLS FOR PIPE.....	48
<input type="checkbox"/> M-601-12	HEADWALLS AND PIPE OUTLET PAVING.....	49
<input type="checkbox"/> M-601-20	WINGWALLS FOR PIPE OR BOX CULVERTS (2 SHEETS).....	50-51
<input type="checkbox"/> M-603-1	METAL PIPE (4 SHEETS).....	52-55
<input type="checkbox"/> M-603-2	REINFORCED CONCRETE PIPE.....	56
<input type="checkbox"/> M-603-3	PRECAST CONCRETE BOX CULVERT.....	57
	<i>(REVISED ON SEPTEMBER 10, 2020)</i>	
<input type="checkbox"/> M-603-4	CORRUGATED POLYETHYLENE PIPE (AASHTO M294) AND CORRUGATED POLYPROPYLENE PIPE (AASHTO M330) (2 sheets).....	58
	<i>(REVISED ON MARCH 7, 2022)</i>	
<input type="checkbox"/> M-603-5	POLYVINYL CHLORIDE (PVC) PIPE (AASHTO M304).....	59
<input type="checkbox"/> M-603-6	STEEL REINFORCED POLYETHYLENE RIBBED PIPE (AASHTO MP 20).....	60
<input type="checkbox"/> M-603-10	CONCRETE AND METAL END SECTIONS.....	61
<input type="checkbox"/> M-603-12	TRAVERSABLE END SECTIONS AND SAFETY GRATES (3 SHEETS).....	62-64
<input type="checkbox"/> M-604-10	INLET, TYPE C.....	65
<input type="checkbox"/> M-604-11	INLET, TYPE D.....	66
<input type="checkbox"/> M-604-12	CURB INLET TYPE R (2 SHEETS).....	67-68
<input type="checkbox"/> M-604-13	CONCRETE INLET TYPE 13.....	69
<input type="checkbox"/> M-604-20	MANHOLES (3 SHEETS).....	70-72
<input type="checkbox"/> M-604-25	VANE GRATE INLET (5 SHEETS).....	73-77
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<input type="checkbox"/> M-605-1	SUBSURFACE DRAINS.....	78

PLAN NUMBER	M STANDARD TITLE	PAGE NUMBER
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	<i>(REVISED ON MARCH 5, 2020)</i>	
<input type="checkbox"/> M-606-13	GUARDRAIL TYPE 7 F-SHAPE BARRIER (4 SHEETS).....	98-101
<input type="checkbox"/> M-606-14	PRECAST TYPE 7 CONCRETE BARRIER (4 SHEETS).....	102-104
	<i>(REVISED ON FEBRUARY 8, 2023)</i>	
<input type="checkbox"/> M-606-15	GUARDRAIL TYPE 9 SINGLE SLOPE BARRIER (11 SHEETS).....	105-115
	<i>(REVISED ON FEBRUARY 17, 2023)</i>	
<input type="checkbox"/> M-607-1	WIRE FENCES AND GATES (3 SHEETS).....	116-118
<input type="checkbox"/> M-607-2	CHAIN LINK FENCE (3 SHEETS).....	119-121
<input type="checkbox"/> M-607-3	BARRIER FENCE.....	122
<input type="checkbox"/> M-607-4	DEER FENCE, GATES, AND GAME RAMPS (7 SHEETS).....	123-127
	<i>(REVISED ON JULY 13, 2020)</i>	
<input type="checkbox"/> M-607-10	PICKET SNOW FENCE.....	128
<input type="checkbox"/> M-607-15	ROAD CLOSURE GATE (9 SHEETS).....	129-137
<input checked="" type="checkbox"/> M-608-1	CURB RAMPS (10 SHEETS).....	138-147
<input checked="" type="checkbox"/> M-609-1	CURBS, GUTTERS, AND SIDEWALKS (4 SHEETS).....	148-151
<input type="checkbox"/> M-611-1	CATTLE GUARD (2 SHEETS).....	152-153
<input type="checkbox"/> M-611-2	DEER GUARD (2 SHEETS).....	154-155
<input type="checkbox"/> M-614-1	RUMBLE STRIPS (3 SHEETS).....	156-158
<input type="checkbox"/> M-614-2	SAND BARREL ARRAYS (2 SHEETS).....	159-160
<input type="checkbox"/> M-615-1	EMBANKMENT PROTECTOR TYPE 3.....	161
<input type="checkbox"/> M-615-2	EMBANKMENT PROTECTOR TYPE 5.....	162
<input type="checkbox"/> M-616-1	INVERTED SIPHON.....	163
<input type="checkbox"/> M-620-1	FIELD LABORATORY CLASS 1.....	164
<input type="checkbox"/> M-620-2	FIELD LABORATORY CLASS 2 (2 SHEETS).....	165-166
<input type="checkbox"/> M-620-11	FIELD OFFICE CLASS 1.....	167
<input type="checkbox"/> M-620-12	FIELD OFFICE CLASS 2.....	168
<input type="checkbox"/> M-629-1	SURVEY MONUMENTS (2 SHEETS).....	169-170

PLAN NUMBER	S STANDARD TITLE	PAGE NUMBER
<input type="checkbox"/> S-612-1	DELINEATOR INSTALLATIONS (8 SHEETS).....	171-178
	<i>(REVISED ON NOVEMBER 7, 2023)</i>	
<input type="checkbox"/> S-613-1	ROADWAY LIGHTING (6 SHEETS).....	179-186
	<i>(REVISED ON SEPTEMBER 30, 2020)</i>	
<input type="checkbox"/> S-613-2	ALTERNATIVE ROADWAY LIGHTING (4 SHEETS).....	
	<i>(NEW, ISSUED ON SEPTEMBER 30, 2020)</i>	
<input type="checkbox"/> S-613-4	TRAFFIC SIGNAL ONE-LINE DIAGRAMS (6 SHEETS).....	
	<i>(NEW, ISSUED ON JUNE 15, 2023)</i>	
<input type="checkbox"/> S-614-1	GROUND SIGN PLACEMENT (2 SHEETS).....	187-188
<input type="checkbox"/> S-614-2	CLASS I SIGNS.....	189
<input type="checkbox"/> S-614-3	CLASS II SIGNS.....	190
<input type="checkbox"/> S-614-4	CLASS III SIGNS (3 SHEETS).....	191-193
<input type="checkbox"/> S-614-5	BREAK-AWAY SIGN SUPPORT DETAILS FOR CLASS III SIGNS (2 SHEETS).....	194-195
<input type="checkbox"/> S-614-6	CONCRETE FOOTINGS AND SIGN ISLANDS FOR CLASS III SIGNS (2 SHEETS).....	196-197
<input type="checkbox"/> S-614-8	TUBULAR STEEL SIGN SUPPORT DETAILS (7 SHEETS).....	198-204
	<i>(REVISED ON DECEMBER 29, 2020)</i>	
S-614-9	PEDESTRIAN PUSH BUTTON POST ASSEMBLY (2 SHEETS).....	205-206
	<i>(SUPERSEDED ON JANUARY 23, 2020 BY S-614-45)</i>	
<input type="checkbox"/> S-614-10	MARKER ASSEMBLY INSTALLATIONS.....	207
<input type="checkbox"/> S-614-11	MILEPOST SIGN DETAIL FOR HIGH SNOW AREAS.....	208
<input type="checkbox"/> S-614-12	STRUCTURE NUMBER INSTALLATION (2 SHEETS).....	209-210
<input type="checkbox"/> S-614-14	FLASHING BEACON AND SIGN INSTALLATIONS (4 SHEETS).....	211-214
<input type="checkbox"/> S-614-20	TYPICAL POLE MOUNT SIGN INSTALLATIONS.....	215
<input type="checkbox"/> S-614-21	CONCRETE BARRIER SIGN POST INSTALLATIONS (2 SHEETS).....	216-217
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<input type="checkbox"/> S-614-40A	ALTERNATIVE TRAFFIC SIGNAL 25'-55' SINGLE MAST ARMS (4 SHEETS).....	224-227
	<i>(REVISED ON JULY 22, 2022)</i>	
<input type="checkbox"/> S-614-41	TEMPORARY SPAN WIRE SIGNALS (13 SHEETS).....	228-240
<input type="checkbox"/> S-614-42	CABINET FOUNDATION DETAIL (4 SHEETS).....	241-244
<input type="checkbox"/> S-614-43	TRAFFIC LOOP AND MISCELLANEOUS SIGNAL DETAILS (8 SHEETS).....	245-252
<input type="checkbox"/> S-614-44	PEDESTAL POLE SIGNALS (2 SHEETS).....	253-254
<input type="checkbox"/> S-614-45	PEDESTRIAN PUSH BUTTON POST ASSEMBLY DETAILS (6 SHEETS).....	
	<i>(REVISED ON DECEMBER 3, 2020)</i>	
<input type="checkbox"/> S-614-50	STATIC SIGN MONOTUBE STRUCTURES (12 SHEETS).....	255-266
<input type="checkbox"/> S-614-60	DYNAMIC SIGN MONOTUBE STRUCTURES (14 SHEETS).....	267-280
<input type="checkbox"/> S-627-1	PAVEMENT MARKINGS (11 SHEETS).....	281-289
	<i>(REVISED ON APRIL 14, 2023)</i>	
<input checked="" type="checkbox"/> S-630-1	TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION (26 SHEETS).....	290-313
	<i>(REVISED ON JULY 24, 2023)</i>	
<input type="checkbox"/> S-630-2	BARRICADES, DRUMS, CONCRETE BARRIERS (TEMP) AND VERTICAL PANELS.....	314
<input type="checkbox"/> S-630-3	FLASHING BEACON (PORTABLE) DETAILS.....	315
<input type="checkbox"/> S-630-4	STEEL SIGN SUPPORT (TEMPORARY) INSTALLATION DETAILS (2 SHEETS).....	316-317
<input type="checkbox"/> S-630-5	PORTABLE RUMBLE STRIPS (TEMPORARY) (2 SHEETS).....	318-319
<input type="checkbox"/> S-630-6	EMERGENCY PULL-OFF AREA (TEMPORARY).....	320
<input type="checkbox"/> 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 November 7, 2023

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 OTHER M&S STANDARD PLANS ARE STILL ELIGIBLE FOR USE IN CONSTRUCTION IF APPROVED BY AN APPROPRIATE CDOT ENGINEER.

Plot Date: 7/26/2024 2:04 PM Plotted By: Sophie Scott
 P:\PROJECTS\ACTIVE PROJECTS\RIVERDALE TRAIL CONNECTION\RD_CONN\CONNECTION\RD_CONN\COMPUTER DESIGN FILES\GN-002 STANDARD PLANS LIST.DWG

2/27/2024

All seals for this set of drawings are applied to the cover page(s)	Print Date: 2/26/2024	Sheet Revisions			 THORNTON PUBLIC WORKS 12450 WASHINGTON ST. THORNTON, CO 80241	Issued for Bid		RIVERDALE TRAIL CONNECTION STANDARD PLANS LIST		Project No.
	File Name: GN-002 STANDARD PLANS LIST.DWG	Date	Comments	Initials		No Revisions:			21-674G	
	Horiz. Scale: N/A Vert. Scale: N/A  12076 Grant Street Thornton, CO 80241 Ph: (303) 962-9300 Fax: (303) 962-9350					Revised:	Designer: S. SCOTT	Structure Numbers	Drawing Number GN-002	
				Void:	Detailer: S. SCOTT	Sheet Subset: GENERAL	Subset Sheets: 2 of 2	Sheet Number 2		

PROJECT CONTROL DIAGRAM RIVERDALE TRAIL CONNECTION PROJECT

LOCATED IN SECTION 19, TOWNSHIP 2 SOUTH,
RANGE 67 WEST OF THE 6TH P.M.,
COUNTY OF ADAMS, STATE OF COLORADO
SHEET 1 OF 3

BASIS OF BEARINGS: ALL BEARINGS ARE GRID BEARINGS OF THE COLORADO STATE COORDINATE SYSTEM, CENTRAL ZONE, NORTH AMERICAN DATUM 1983. THE BEARING OF THE SOUTH LINE OF THE NORTHWEST QUARTER, SECTION 19, TOWNSHIP 2 SOUTH, RANGE 67 WEST OF THE 6TH P.M. WAS DETERMINED TO BEAR NORTH 88°08'09" EAST, A DISTANCE OF 2476.24 FEET BETWEEN THE WEST QUARTER CORNER, A FOUND 3.25" ALLOY CAP STAMPED "COLO DEPT OF TRANSPORTATION, 1/4 COR. T2S, S24|S19, R67W | R67W, 1994, PLS 28666" LOCATED AT THE NORTHEAST CORNER OF COLORADO BOULEVARD AND 92ND AVENUE, AND THE CENTER QUARTER SECTION 19, A FOUND 2.5" ALLOY CAP STAMPED "GREENHORNE & OMARA, INC., S19, T2S R67W, C 1/4, 1994, PLS 28656".

THIS GRID BEARING WAS OBTAINED UTILIZING GLOBAL POSITIONING SYSTEM (GPS) SURVEY BASED ON THE NORTH AMERICAN DATUM 83, NATIONAL SPATIAL REFERENCE SYSTEM 2011 (NSRS 2011).

BASIS OF ELEVATIONS: VERTICAL CONTROL WAS ESTABLISHED BY GPS OBSERVATIONS ON CONTROL POINT 1000, A 3/8" REBAR WITH A 1" ORANGE PLASTIC CAP STAMPED "BLC CONTROL POINT", HAVING A DERIVED ELEVATION OF 5088.20 FEET. THE ELEVATION ON SAID CONTROL POINT WAS VERIFIED WITH AN OPUS SOLUTION AND OBSERVATIONS ON THAT NGS MONUMENT DESIGNATION "PRAIRIE 3" (PID D13206) WITH A REPORTED ELEVATION OF 5227.68 FEET.

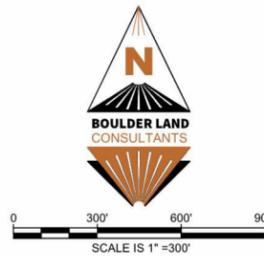
COORDINATE DATUM: PROJECT COORDINATES ARE MODIFIED COLORADO STATE PLANE CENTRAL ZONE NORTH AMERICAN DATUM 83 (NATIONAL SPATIAL REFERENCE SYSTEM 2011) COORDINATES WITH LINEAL UNITS BEING IN U.S. SURVEY FEET. THE COMBINED SCALE FACTOR USED TO MODIFY THE COORDINATES FROM STATE PLANE TO PROJECT COORDINATES IS 1.0002161667. THE RESULTING PROJECT COORDINATES ARE TRUNCATED BY 1,000,000 FEET IN THE NORTHING AND 3,000,000 FEET IN THE EASTING, AFTER CONVERTING FROM STATE PLANE COORDINATES TO PROJECT COORDINATES. THE CHARN IS BASED ON THE NAD '83 (NSRS11) DATUM.

PROJECT COORDINATES NORTHING =
STATE PLANE COORDINATE NORTHING x 1.0002161667 - 1,000,000.

PROJECT COORDINATES EASTING =
STATE PLANE COORDINATE EASTING x 1.0002161667 - 3,000,000.

DATES OF FIELD EVENTS: MAY - JULY 2023

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.



LEGEND	
	PUBLIC LAND SURVEY SYSTEM MONUMENT
	CITY OF THORNTON
	CITY OF COMMERCE CITY

NOTE:
THIS MAP DOES NOT REPRESENT A BOUNDARY SURVEY OR TITLE SEARCH PERFORMED BY BOULDER LAND CONSULTANTS. THERE MAY EXIST EASEMENTS AND/OR OTHER ENCUMBRANCES AFFECTING THE SUBJECT PROPERTIES THAT ARE NOT SHOWN HEREON.

SURVEYOR'S CERTIFICATION:

I, KAYCE D. W. KEANE, A LICENSED PROFESSIONAL LAND SURVEYOR IN THE STATE OF COLORADO, DO HEREBY CERTIFY TO ROCKSOL INC. THAT, SUBJECT TO THE NOTES SHOWN HEREON, THIS PROJECT CONTROL DIAGRAM WAS MADE UNDER MY RESPONSIBLE CHARGE AND IS BASED ON MY KNOWLEDGE, INFORMATION AND BELIEF, AND ACCURATELY DEPICTS THE RESULTS OF FIELD WORK PERFORMED. PER COLORADO STATE BOARD RULE NO. 1.6(B)(2), THIS CERTIFICATION DOES NOT REPRESENT A GUARANTY OR WARRANTY, EITHER EXPRESSED OR IMPLIED.

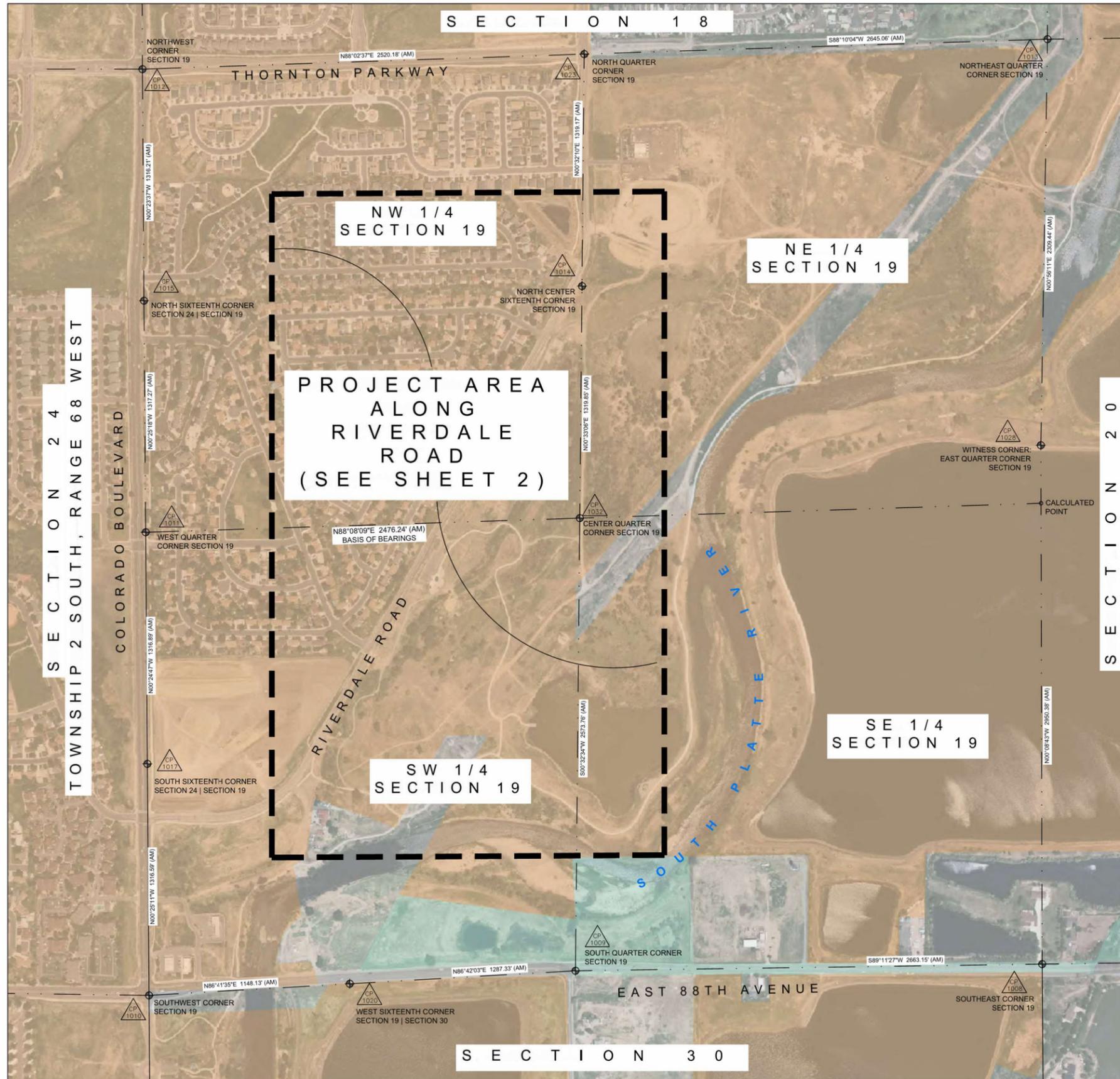
KAYCE D. W. KEANE
COLORADO LICENSED PROFESSIONAL
LAND SURVEYOR NO. 38197
FOR, AND ON BEHALF OF,
BOULDER LAND CONSULTANTS
JULY 31, 2023



SHEET 1 OF 3
THIS MAP WAS PREPARED BY

4150 DARLEY AVENUE SUITE 7
BOULDER, CO 80305 (303) 443-3616
WEBSITE: www.BLCsurveyors.com
EMAIL: info@bcsurveyors.com
BOULDER LAND CONSULTANTS IS A SUBSIDIARY
OF ROCKY MOUNTAIN GEOMATICS, INC.

CONTROL DIAGRAM: PELICAN PONDS
ADAMS COUNTY, COLORADO



PROJECT CONTROL DIAGRAM
RIVERDALE TRAIL CONNECTION PROJECT
 LOCATED IN SECTION 19, TOWNSHIP 2 SOUTH,
 RANGE 67 WEST OF THE 6TH P.M.,
 COUNTY OF ADAMS, STATE OF COLORADO
 SHEET 2 OF 3



GEODETTIC COORDINATE TABLE - CONTROL POINTS ▲ 1024 ▲ 1097

POINT NUMBER	GEODETTIC COORDINATES NAD 83(2011)		ELLIPSOID HEIGHT (sft)	ORTHO HEIGHT (sft)	MAPPING ANGLE	SCALE FACTOR	COMBINED SCALE FACTOR	NAD 83(2011) ZONE 502		DESCRIPTION
	LATITUDE (N)	LONGITUDE (W)						SP NORTHING (SFT)	SP EASTING (SFT)	
1000	39°51'48.01526"	104°56'00.54315"	5030.78	5088.20	0°21'26.3"	1.000024390	0.999783885	1739849.75	3159035.57	ESTABLISHED CONTROL POINT - A 3/8" REBAR WITH 1" ORANGE PLASTIC CAP STAMPED "BLC CONTROL POINT"
1001	39°51'39.70074"	104°56'08.51315"	5034.25	5091.65	0°21'21.2"	1.000023854	0.999783182	1739004.55	3158419.31	ESTABLISHED CONTROL POINT - A 3/8" REBAR WITH 1" ORANGE PLASTIC CAP STAMPED "BLC CONTROL POINT"
1002	39°51'35.82015"	104°56'08.52383"	5019.37	5076.75	0°21'21.2"	1.000023604	0.999783644	1738611.87	3158420.92	ESTABLISHED CONTROL POINT - A 3/8" REBAR WITH 1" ORANGE PLASTIC CAP STAMPED "BLC CONTROL POINT"
1003	39°51'32.14074"	104°56'13.79589"	5029.85	5087.23	0°21'17.9"	1.000023368	0.999782906	1738237.01	3158012.10	ESTABLISHED CONTROL POINT - A 3/8" REBAR WITH 1" ORANGE PLASTIC CAP STAMPED "BLC CONTROL POINT"
1004	39°51'42.61783"	104°56'11.13034"	5038.10	5095.50	0°21'19.6"	1.000024042	0.999783186	1739298.46	3158213.39	ESTABLISHED CUT X IN CONCRETE WALK
1005	39°51'58.00170"	104°55'55.33767"	5028.03	5085.51	0°21'29.5"	1.000025037	0.999784662	1740862.80	3159435.17	ESTABLISHED CONTROL POINT - A 3/8" REBAR WITH 1" ORANGE PLASTIC CAP STAMPED "BLC CONTROL POINT"
1006	39°52'03.94044"	104°55'52.05356"	5031.36	5088.85	0°21'31.6"	1.000025422	0.999784888	1741465.34	3159687.49	ESTABLISHED CONTROL POINT - A MAGNAIL IN ASPHALT
1007	39°51'48.20935"	104°56'01.07947"	5030.44	5087.88	0°21'25.9"	1.000024403	0.999783913	1739869.13	3158993.63	ESTABLISHED CONTROL POINT - A 3/8" REBAR WITH 1" ORANGE PLASTIC CAP STAMPED "BLC CONTROL POINT"
1084	39°47'29.97706"	104°54'05.35771"	5170.19	5227.68	0°22'38.9"	1.000008511	0.999761340	1713797.23	3168189.56	NATIONAL GEODETTIC SURVEY MONUMENT - DESIGNATION "PRAIRIE 3", PID D13206, A STAINLESS STEEL ROD IN MONUMENT BOX. (OFFSITE)

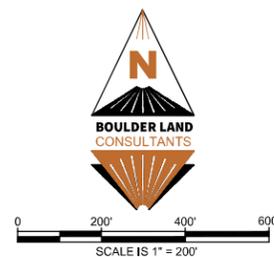
PROJECT COORDINATE TABLE - CONTROL POINTS ▲ 1024 ▲ 1097

POINT NUMBER	PROJECT COORDINATES		ORTHOMETRIC HEIGHT (SFT)	DESCRIPTION
	NORTHING (SFT)	EASTING (SFT)		
1000	740225.85	159718.45	5088.20	ESTABLISHED CONTROL POINT - A 3/8" REBAR WITH 1" ORANGE PLASTIC CAP STAMPED "BLC CONTROL POINT"
1001	739380.46	159102.06	5091.65	ESTABLISHED CONTROL POINT - A 3/8" REBAR WITH 1" ORANGE PLASTIC CAP STAMPED "BLC CONTROL POINT"
1002	738987.70	159103.66	5076.75	ESTABLISHED CONTROL POINT - A 3/8" REBAR WITH 1" ORANGE PLASTIC CAP STAMPED "BLC CONTROL POINT"
1003	738612.75	158694.76	5087.23	ESTABLISHED CONTROL POINT - A 3/8" REBAR WITH 1" ORANGE PLASTIC CAP STAMPED "BLC CONTROL POINT"
1004	739674.43	158896.09	5095.50	ESTABLISHED CONTROL POINT - CUT X IN CONCRETE WALK
1005	741239.12	160118.14	5085.51	ESTABLISHED CONTROL POINT - A 3/8" REBAR WITH 1" ORANGE PLASTIC CAP STAMPED "BLC CONTROL POINT"
1006	741841.78	160370.51	5088.85	ESTABLISHED CONTROL POINT - A MAGNAIL IN ASPHALT
1007	740245.23	159676.50	5087.88	ESTABLISHED CONTROL POINT - A 3/8" REBAR WITH 1" ORANGE PLASTIC CAP STAMPED "BLC CONTROL POINT"
1084	714167.69	168874.42	5227.68	NATIONAL GEODETTIC SURVEY MONUMENT - DESIGNATION "PRAIRIE 3", PID D13206, A STAINLESS STEEL ROD IN MONUMENT BOX. (OFFSITE)

DATUM STATEMENT
 GEODETTIC COORDINATES ARE BASED ON NAD83 (2011)
 ORTHOMETRIC HEIGHTS ARE SHOWN IN NAVD88
 STATE PLANE COORDINATES ARE COLORADO CENTRAL ZONE (502)
 UNITS ARE IN US SURVEY FEET (sft)
 PROJECT (GROUND) COORDINATES ARE MODIFIED STATE PLANE
 COMBINED SCALE FACTOR = 0.999783888
 COMBINED SCALE FACTOR RECIPROCAL = 1.0002161667
 TRUNCATION APPLIED TO STATE PLANE COORDINATES:
 NORTHING REDUCTION 1,000,000 sft
 EASTING REDUCTION 3,000,000 sft
 PROJECT LATITUDE 39° 51' 48.01526" N
 PROJECT LONGITUDE 104° 56' 00.54315" W
 PROJECT ELEVATION 5088 sft

TYPICAL ACRONYMS
 CP CONTROL POINT
 CORS CONTINUOUSLY OPERATING REFERENCE STATIONS
 NAD NORTH AMERICAN DATUM
 NAVD NORTH AMERICAN VERTICAL DATUM
 NGS NATIONAL GEODETTIC SURVEY
 CHARN COLORADO HIGH ACCURACY REFERENCE NETWORK
 NSRS NATIONAL SPATIAL REFERENCE SYSTEM

CONVERSION EXAMPLE OF STATE PLANE COORDINATES TO PROJECT COORDINATES:
 STATE PLANE NORTHING X 1.0002161667 - 1,000,000 = PROJECT NORTHING
 STATE PLANE EASTING X 1.0002161667 - 3,000,000 = PROJECT EASTING



LEGEND

▲ CP 1010	+	PUBLIC LAND SURVEY SYSTEM MONUMENT
●	+	FOUND MONUMENT
+	+	FOUND CHISELED CROSS OR ARROW
▲	▲	ESTABLISHED PRIMARY CONTROL POINT AS DESCRIBED HEREIN
▲	▲	ESTABLISHED SECONDARY CONTROL POINT AS DESCRIBED HEREIN



SHEET 2 OF 3
 THIS MAP WAS PREPARED BY

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CONTROL DIAGRAM: PELICAN PONDS
 ADAMS COUNTY, COLORADO

PROJECT CONTROL DIAGRAM
RIVERDALE TRAIL CONNECTION PROJECT
 LOCATED IN SECTION 19, TOWNSHIP 2 SOUTH,
 RANGE 67 WEST OF THE 6TH P.M.,
 COUNTY OF ADAMS, STATE OF COLORADO
 SHEET 3 OF 3

PROJECT COORDINATE TABLE - PLSS MONUMENTS			
POINT NUMBER	PROJECT COORDINATES		DESCRIPTION
	NORTHING (sft)	EASTING (sft)	
1008	737688.43	162934.40	SOUTHEAST CORNER OF SECTION 19 - A 3/4" REBAR WITH 3.25" ALLOY CAP STAMPED "FLATIRONS SURVEYING, T2S R67W, S19 S20 S30 S29, 20' WC, 2017, LS 16406"
1009	737650.82	160271.52	SOUTH QUARTER CORNER OF SECTION 19 - A 3.25" ALLOY CAP STAMPED "T2S R67W 6PM, 1/4 SEC 30, 2010, PLS 34977" IN A RANGE BOX
1010	737510.50	157840.11	SOUTHWEST CORNER OF SECTION 19 - A 3.25" ALLOY CAP (ILLEGIBLE) IN A WATER RANGE BOX
1011	740143.91	157820.97	WEST QUARTER CORNER OF SECTION 19 - A 3.25" ALLOY CAP STAMPED "CDOT, 1/4 COR, T2S, S24 S19, R68W R67W, 1994, PLS NO. 28666" IN A RANGE BOX
1012	742777.33	157802.24	NORTHWEST CORNER OF SECTION 19 - A 3.25" ALLOY CAP (ILLEGIBLE) IN A RANGE BOX
1013	742947.93	162964.66	NORTHEAST CORNER OF SECTION 19 - A 3.25" ALLOY CAP STAMPED "CHARLES M. RUSSELL LS 23519, T2S, 18 17 19 20, R67W, 1993, ADAMS COUNTY" 1.5' BELOW GRADE
1014	741544.25	160308.61	NORTH CENTER SIXTEENTH CORNER OF SECTION 19 - A 3/4" REBAR WITH 3.25" ALLOY CAP STAMPED "STANTEC, N1/16 COR, 2003, PLS 25942"
1015	741461.15	157811.28	NORTH SIXTEENTH CORNER OF SECTION 19 SECTION 24 - A 3.25" ALLOY CAP STAMPED "COLO DEPT OF TRANSPORTATION, T2S, N1/16, S24 S19, R68W R67W, 1994, PLS NO 28666" IN A RANGE BOX UNDER SURFACE OF GRASS
1017	738827.06	157830.47	SOUTH SIXTEENTH CORNER OF SECTION 19 SECTION 24 - A MAG NAIL IN ASPHALT ROADWAY
1020	737576.73	158986.32	SOUTHWEST SIXTEENTH CORNER OF SECTION 19 SECTION 30 - A 2" PIPE WITH 3.25" ALLOY CAP (ILLEGIBLE) IN A RANGE BOX
1023	742863.31	160321.07	NORTH QUARTER CORNER OF SECTION 19 - MAG NAIL
1024	741643.42	160262.98	FOUND 5/8" REBAR WITH 1.25" YELLOW PLASTIC CAP STAMPED "MANHARD PLS 38445"
1025	741617.01	160248.19	FOUND 5/8" REBAR WITH 1.25" RED PLASTIC COLLAR (ILLEGIBLE)
1028	740638.80	162926.92	WITNESS CORNER: EAST QUARTER CORNER OF SECTION 19 - A 3/4" REBAR WITH 3.5" ALLOY CAP STAMPED "LAMP RYNEARSON, T2S R67W, 1/4, S19 S20, W.C. 330', 2018, PLS 38318"
1032	740224.46	160295.90	CENTER QUARTER CORNER OF SECTION 19 - A 3/4" REBAR WITH 2.5" ALLOY CAP STAMPED "GREENHORNE & OMARA INC, S19, T2S R67W, C1/4, 1994, PLS 28656"

PROJECT COORDINATE TABLE - FOUND MONUMENTS			
POINT NUMBER	PROJECT COORDINATES		DESCRIPTION
	NORTHING (sft)	EASTING (sft)	
1024	741643.42	160262.98	FOUND 5/8" REBAR WITH 1.25" YELLOW PLASTIC CAP STAMPED "MANHARD PLS 38445"
1025	741617.01	160248.19	FOUND 5/8" REBAR WITH 1.25" RED PLASTIC COLLAR (ILLEGIBLE)
1034	741114.24	159979.16	FOUND 5/8" REBAR (LEANING)
1035	741051.40	159944.12	FOUND 5/8" REBAR WITH 1" YELLOW PLASTIC CAP STAMPED "COSTIN ENGRG LS 11570"
1036	740964.01	159895.45	FOUND 5/8" REBAR WITH 1.25" YELLOW PLASTIC CAP STAMPED "COSTIN ENGR LS 11330"
1037	740901.06	159860.62	FOUND 5/8" REBAR WITH 1" YELLOW PLASTIC CAP STAMPED "COSTIN ENGRG LS 11570"
1038	740775.14	159790.15	FOUND 5/8" REBAR WITH 1.25" YELLOW PLASTIC CAP STAMPED "COSTIN ENGR LS 11330"
1039	740712.54	159755.47	FOUND 1/2" REBAR
1040	740649.66	159720.53	FOUND 1/2" REBAR WITH 3/4" YELLOW PLASTIC CAP (ILLEGIBLE)
1041	740586.73	159685.51	FOUND 5/8" REBAR WITH 1" YELLOW PLASTIC CAP STAMPED "COSTIN ENGRG LS 11570"
1042	740523.55	159650.58	FOUND 5/8" REBAR
1043	740497.62	159636.14	FOUND 5/8" REBAR WITH 1" YELLOW PLASTIC CAP STAMPED "COSTIN ENGRG LS 11570"
1044	740433.80	159600.64	FOUND 5/8" REBAR
1045	740370.00	159564.96	FOUND 5/8" REBAR
1046	740307.30	159529.86	FOUND 5/8" REBAR (BENT)
1047	740243.20	159494.39	FOUND 5/8" REBAR
1048	740179.89	159458.86	FOUND 5/8" REBAR
1049	739926.10	159318.00	FOUND 5/8" REBAR
1050	739862.33	159282.47	FOUND 5/8" REBAR WITH 1" YELLOW PLASTIC CAP STAMPED "COSTIN ENGRG LS 11570"
1051	739800.42	159242.72	FOUND 5/8" REBAR WITH 1" YELLOW PLASTIC CAP STAMPED "COSTIN ENGRG LS 11570"
1052	739740.34	159203.27	FOUND 5/8" REBAR WITH 1" YELLOW PLASTIC CAP STAMPED "COSTIN ENGRG LS 11570"
1053	739663.26	159160.11	FOUND 5/8" REBAR WITH 1" YELLOW PLASTIC CAP STAMPED "COSTIN ENGRG LS 11570"
1074	740990.35	159909.88	FOUND 5/8" REBAR
1086	739444.25	158863.29	FOUND 5/8" REBAR WITH 1" YELLOW PLASTIC CAP STAMPED "COSTIN ENGRG LS 11570"
1093	739444.95	159049.57	FOUND 5/8" REBAR WITH 1.5" ALLOW CAP STAMPED "PIONEER ENG. LS 18397"
1094	739003.77	158803.43	FOUND 1/2" REBAR WITH 1" RED PLASTIC CAP STAMPED "MICHAEL LANG LS-37053"
1101	738241.52	158514.3	FOUND 1/2" REBAR WITH 1" RED PLASTIC CAP STAMPED "MICHAEL LANG LS-37053"
1102	738479.48	158712.52	FOUND 1/2" REBAR WITH 1" RED PLASTIC CAP STAMPED "MICHAEL LANG LS-37053"
1103	738872.69	158840.59	FOUND 5/8" REBAR WITH 1.5" ALLOW CAP (ILLEGIBLE)
1104	738872.27	158830.73	FOUND 5/8" REBAR WITH 1.25" YELLOW PLASTIC CAP STAMPED "BAYER LS 6973"
1105	738974.98	158856.24	FOUND 5/8" REBAR
1106	739430.50	159110.21	FOUND 5/8" REBAR (DISTURBED)

PROJECT COORDINATE TABLE - FOUND APPARENT WITNESS CORNERS			
POINT NUMBER	PROJECT COORDINATES		DESCRIPTION
	NORTHING (sft)	EASTING (sft)	
1026	741295.90	160069.21	FOUND 5/8" REBAR
1033	741252.45	160044.07	FOUND 5/8" REBAR WITH BROKEN YELLOW PLASTIC CAP (ILLEGIBLE)
1054	739791.68	159111.49	FOUND CHISELED + IN CONCRETE WALK
1055	739854.58	159146.47	FOUND CHISELED + IN CONCRETE WALK
1056	739918.42	159181.89	FOUND CHISELED + IN CONCRETE WALK
1057	739982.11	159217.35	FOUND CHISELED -> IN CONCRETE WALK
1058	740045.05	159252.38	FOUND CHISELED + IN CONCRETE WALK
1059	740108.82	159287.90	FOUND CHISELED + IN CONCRETE WALK
1060	740172.57	159323.42	FOUND CHISELED + IN CONCRETE WALK
1061	740235.53	159358.33	FOUND CHISELED -> IN CONCRETE WALK
1062	740299.31	159393.77	FOUND CHISELED + IN CONCRETE WALK
1063	740363.03	159429.28	FOUND CHISELED + IN CONCRETE WALK
1064	740426.00	159464.25	FOUND CHISELED + IN CONCRETE WALK
1065	740489.75	159499.78	FOUND CHISELED + IN CONCRETE WALK
1066	740553.63	159535.23	FOUND CHISELED + IN CONCRETE WALK
1067	740642.66	159584.80	FOUND CHISELED + IN CONCRETE WALK
1068	740705.61	159619.74	FOUND CHISELED + IN CONCRETE WALK
1069	740768.53	159654.80	FOUND CHISELED + IN CONCRETE WALK
1070	740831.55	159689.71	FOUND CHISELED + IN CONCRETE WALK
1071	740894.44	159724.75	FOUND CHISELED + IN CONCRETE WALK
1072	740957.37	159759.74	FOUND CHISELED + IN CONCRETE WALK
1073	741046.42	159809.33	FOUND CHISELED + IN CONCRETE WALK
1075	741107.72	159843.25	FOUND CHISELED + IN CONCRETE WALK
1076	741170.66	159878.29	FOUND CHISELED + IN CONCRETE WALK
1077	741231.81	159912.32	FOUND CHISELED + IN CONCRETE WALK
1078	741443.30	160008.90	FOUND CHISELED + IN CONCRETE WALK
1079	741439.23	159961.78	FOUND CHISELED + IN CONCRETE WALK
1080	741705.26	160046.62	FOUND NAIL AND 3/4" TAG STAMPED "LS 28286" IN CONCRETE SIDEWALK
1081	741693.64	160074.95	FOUND NAIL AND 3/4" TAG STAMPED "LS 28286" IN CONCRETE SIDEWALK
1082	741627.36	160075.55	FOUND NAIL AND 3/4" TAG STAMPED "LS 28286" IN CONCRETE SIDEWALK
1083	739779.25	159104.55	FOUND CHISELED + IN CONCRETE WALK
1087	739503.78	159011.02	FOUND CHISELED + IN CONCRETE WALK
1088	739548.97	158817.40	FOUND CHISELED + IN CONCRETE WALK
1089	739548.70	158776.39	FOUND CHISELED + IN CONCRETE WALK
1090	739679.63	159025.67	FOUND CHISELED + IN CONCRETE WALK
1091	739800.72	159070.85	FOUND CHISELED + IN CONCRETE WALK
1092	739545.79	159034.46	FOUND CHISELED + IN CONCRETE WALK



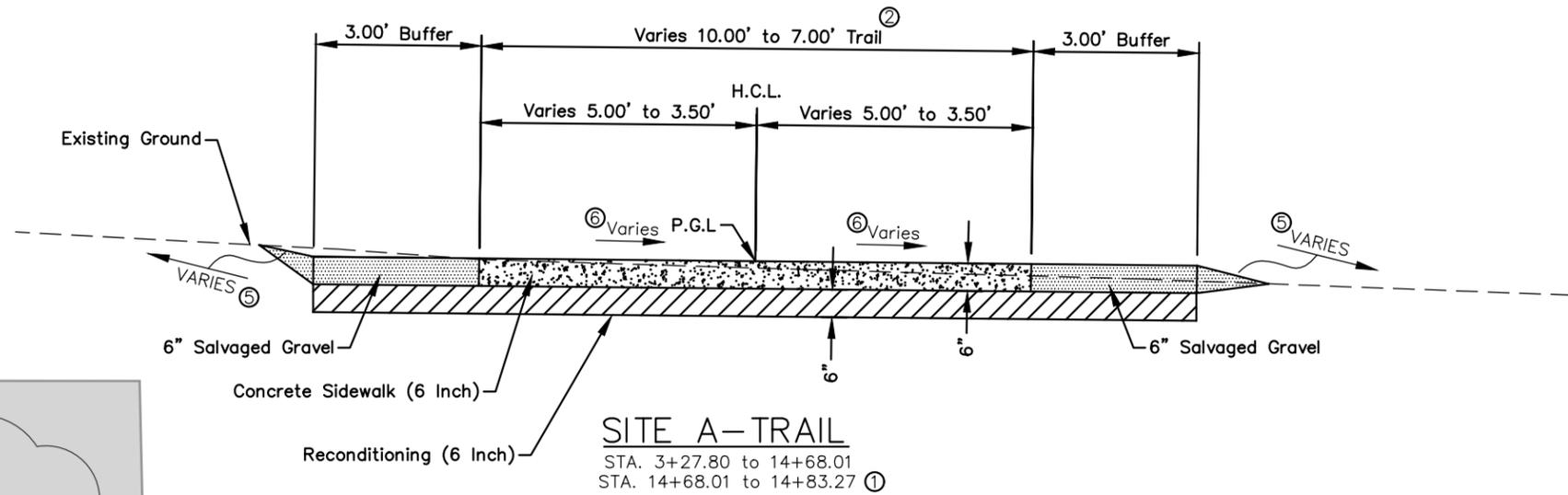
SHEET 3 OF 3
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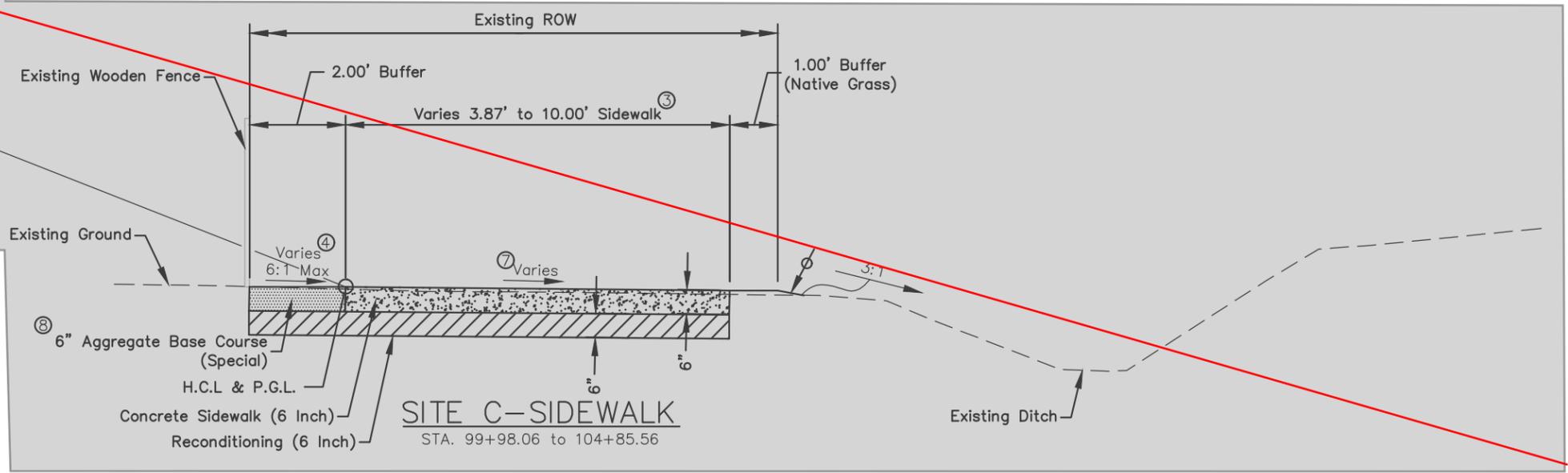
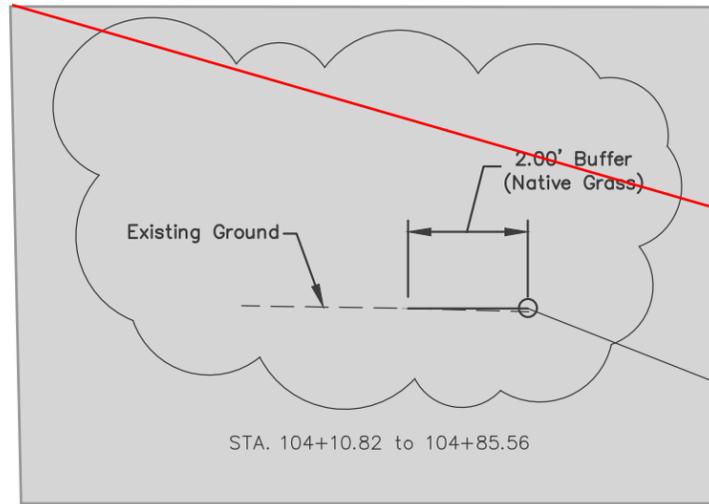
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CONTROL DIAGRAM: PELICAN PONDS
 ADAMS COUNTY, COLORADO

Plot Date: 2/26/2024 2:10 PM Plotted By: Sophie Scott
 P:\PROJECTS\TRAIL CONNECTION\800-COMPUTER DESIGN FILES\802-SHEET FILES\TYP-001 TYPICAL SECTIONS.DWG



SITE A-TRAIL
 STA. 3+27.80 to 14+68.01
 STA. 14+68.01 to 14+83.27 ①



SITE C-SIDEWALK
 STA. 99+98.06 to 104+85.56

NOTES:

1. THE CONTRACTOR SHALL GRADE THE PROJECT WITH A MAXIMUM OF 4:1 SLOPES OR AS NOTED ADJACENT TO CONCRETE TRAIL. CONTRACTOR MAY USE SLOPES LESS THAN 4:1 FOR ROUNDING AND CREATING A PLEASING APPEARANCE.
2. CONCRETE USED FOR TRAIL CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS LISTED IN THE CITY OF THORNTON STANDARDS AND SPECIFICATIONS IN SECTION 810.5 (C).
3. ALL TRANSVERSE DUMMY JOINTS SHALL BE SAWCUT AT INTERVALS APPROXIMATELY EQUAL TO THE WIDTH OF THE SIDEWALK

- TOPSOIL SHALL BE STRIPPED, STOCKPILED, AND SHALL BE USED AT FILL LOCATIONS OR DISPOSED OFFSITE.
- ① SHOULDER MATERIAL TO MATCH EXISTING GROUND MATERIAL.
- ② STA 14+68.01 TO 14+83.27 : 10' TO 7'
- ③ STA 99+98.06 TO 100+26.28 : 3.87' TO 8', STA 104+51.12 TO 104+85.56 : 8' TO 10'
- ④ TIE PROPOSED SITE C FINISHED SURFACE TO EXISTING GROUND.

- ⑤ STA 3+27.80 TO 10+10.00 : 4:1, STA 10+10.00 TO STA 10+20.00 : 4:1 TO 3:1, STA 10+20.00 TO 12+20.00 : 3:1, STA 12+20.00 TO 12+30.00 : 3:1 TO 4:1, STA 12+30.00 TO 14+83.27: 4:1
- ⑥ STA 3+27.80 TO STA 3+69.22 : SEE DET-001, STA 3+69.22 TO 6+40.00 : 1.00%, STA 6+40.00 TO 6+60.00 : 1.00% TO -1.00%, STA 8+20.00 TO 8+40.00 : -1.00% TO 1.00%, STA 9+20.00 TO 9+40.00 : 1.00% TO -1.00%, STA 10+20.00 TO 10+40.00 -1.00% TO 1.00%, STA 10+40.00 TO 10+60.00 : 1.00% TO 2.00%, STA 12+00.00 TO 12+20.00 : 2.00% TO 1.00%, STA 12+78.27 TO 13+30.00 : SEE DET-001
- ⑦ STA 99+98.24 TO 100+20.00 : 1.00% TO 2.00%, STA 102+20.00 TO 102+30.00 : 2.00% TO 1.00%, STA 102+70.00 TO 102+80.00 : 1.00% TO 2.00%, STA 104+20.00 TO 104+30.00 : 2.00% TO 1.00%
- ⑧ IF SITE C IS BUILT CONCURRENT WITH SITE A THEN SALVAGED GRAVEL FROM SITE A IS TO BE USED HERE.



Print Date: 2/26/2024	
File Name: TYP-001 TYPICAL SECTIONS.DWG	
Horiz. Scale: NTS	Vert. Scale: NTS
12076 Grant Street Thornton, CO 80241 Ph: (303) 962-9300 Fax: (303) 962-9350	

Sheet Revisions		
Date	Comments	Initials



THORNTON PUBLIC WORKS
 12450 WASHINGTON ST.
 THORNTON, CO 80241

Issued for Bid	No Revisions:
	Revised:
	Void:

RIVERDALE TRAIL CONNECTION TYPICAL SECTIONS		
Designer: S. SCOTT	Structure Numbers	Sheet Subset: TYPICALS Subset Sheets: 1 of 1
Detailer: C. MCNAMARA		
Sheet Subset: TYPICALS		

Project No.	21-674G
Drawing Number	TYP-001
Sheet Number	6

2/27/2024

GENERAL NOTES:

1. THE CONTRACTOR SHALL HAVE AT LEAST ONE (1) SIGNED COPY OF THE APPROVED PLANS AND SPECIFICATIONS AT THE JOB SITE FOR THE DURATION OF CONSTRUCTION ACTIVITIES.
2. THE CONTRACTOR SHALL FOLLOW ALL GOVERNING REGULATIONS AND SHALL OBTAIN ALL NECESSARY PUBLIC AGENCY PERMITS EXCEPTING THOSE OBTAINED AND/OR FURNISHED BY THE OWNER.
3. APPLICABLE CITY OF THORNTON STANDARD DETAILS ARE TO BE USED BY THE CONTRACTOR. FOR OTHER APPLICABLE DETAILS, EXCEPT AS MODIFIED OR ALTERED BY THE GENERAL NOTES ON THE CONTRACT DRAWINGS OR BY THE REVISIONS TO TECHNICAL SPECIFICATIONS AND CONTRACT DOCUMENTS, IT IS THE INTENT OF THE CITY TO USE THE COLORADO DEPARTMENT OF TRANSPORTATION M & S STANDARDS, 2023 EDITION.
4. THE CONTRACTOR SHALL PROTECT ALL WORK AREAS AND FACILITIES FROM WATER AT ALL TIMES. AREAS AND FACILITIES SUBJECTED TO FLOODING, REGARDLESS OF THE SOURCE OF WATER, SHALL BE PROMPTLY DEWATERED AND RESTORED AT NO COST TO THE OWNER.
5. ALL ITEMS REMOVED ON THE PROJECT SHALL BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE NOTED. ALL EXCESS MATERIALS GENERATED FROM THE SITE ARE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE DISPOSED OF PROPERLY.
6. THE CONTRACTOR SHALL MAINTAIN AND PROVIDE ACCESS TO ALL DRIVEWAYS, TRAILS, SIDEWALKS, AND ROADWAYS ADJOINING THE PROJECT LIMITS AT ALL TIMES.
7. THE CONTRACTOR SHALL PROVIDE CDOT CERTIFIED AND COMPETENT FLAGGER PERSONNEL WHEN NEEDED OR AS DETERMINED BY THE CITY.
8. UTILITY INFORMATION SHOWN IS PLOTTED FROM THE BEST AVAILABLE DATA AT THE TIME OF THE DESIGN. THE CONTRACTOR IS RESPONSIBLE FOR MAKING THEIR OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO AT 811 FOR UTILITY LOCATIONS AT LEAST 3 DAYS PRIOR TO ANY EXCAVATION. THE CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY FOR ANY UTILITIES THAT MAY NEED RELOCATION.
9. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY HORIZONTAL AND VERTICAL LOCATIONS OF ALL UTILITIES PRIOR TO COMMENCING CONSTRUCTION, AND TO NOTIFY THE ENGINEER OF ANY DISCREPANCY. ALL CONFLICTING UTILITIES SHALL BE EXPOSED BY THE CONTRACTOR PRIOR TO CONSTRUCTION AND INSPECTED BY THE ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF UTILITY RELOCATIONS BY UTILITY COMPANIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITIES DURING CONSTRUCTION AND SHALL HOLD THE CITY AND ENGINEER HARMLESS FOR DAMAGES ARISING FROM CONTRACTOR'S FAILURE TO ADEQUATELY PROTECT THE EXISTING UTILITIES.
10. THE CONTRACTOR SHALL INITIATE A REQUEST TO XCEL POWER FOR ANY CONSTRUCTION RELATED ELECTRICAL POWER SOURCES AS SOON AS POSSIBLE. THE CONTRACTOR IS HEREBY INFORMED 30 DAYS MAY BE REQUIRED TO PROVIDE THE SOURCES. THE REQUEST IS TO BE PROCESSED THROUGH THE UTILITY COMPANY.
11. ALL UTILITY IMPROVEMENTS CONSTRUCTED WITHIN THE PROJECT SHALL BE SURVEYED AND TOPOGRAPHIC SURVEY PROVIDED TO THE CITY IN THE PROJECT COORDINATES.
12. THE CONTRACTOR SHALL MAINTAIN AND KEEP CURRENT A SET RED LINES FOR AS-BUILT DRAWINGS WHICH DOCUMENT ALL CHANGES MADE DURING CONSTRUCTION, AND UPON COMPLETION OF THE WORK, THE RED LINES FOR AS-BUILT DRAWINGS SHALL BECOME THE PROPERTY OF THE CITY. ALL PROVISIONS OF THE GENERAL CONTRACT CONDITIONS SHALL APPLY. ALL THE COSTS TO SATISFY THESE REQUIREMENTS SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE WORK.
13. COMPACTION SHALL BE 95% OF STANDARD PROCTOR DENSITY (AASHTO T-99) FOR CLAY SOILS AND 90% OF MODIFIED PROCTOR DENSITY (T-180) FOR GRANULAR SOILS, FOR ALL RECONDITIONING AND EMBANKMENT. MOISTURE DENSITY CONTROL WILL BE REQUIRED ON THIS PROJECT AS FOLLOWS:
 - A. FULL DEPTH OF EMBANKMENTS FROM EXISTING TO PROPOSED GRADE
 - B. AT BASES OF EXCAVATION AND EMBANKMENTS TO A DEPTH OF ONE FOOT.
14. WETTING, EXCAVATION, SCARIFICATION, AND COMPACTION WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF THE WORK.
15. FINISHED GROUND ELEVATIONS FOR ITEMS TO BE MODIFIED, RESET, OR ADJUSTED SHALL BE FIELD VERIFIED BY THE CONTRACTOR.
16. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND MAINTAINING ADEQUATE TRAFFIC CONTROL THROUGHOUT THE PROJECT, INCLUDING PROPER TRAFFIC CONTROL DEVICES AND/OR PERSONNEL AS REQUIRED. A TRAFFIC CONTROL PLAN IS SUBJECT TO CITY OF THORNTON APPROVAL PRIOR TO COMMENCING WORK. A COPY OF THE APPROVED TRAFFIC CONTROL PLANS MUST BE AVAILABLE ONSITE DURING WORK. TRAFFIC CONTROL PLANS SHALL BE IN ACCORDANCE WITH THE LATEST VERSION OF THE MUTCD AND THE PROJECT SPECIFICATIONS.
17. ALL MATERIALS AND WORKMANSHIP SHALL BE SUBJECT TO INSPECTION BY THE CITY. THE CITY RESERVES THE RIGHT TO ACCEPT OR REJECT ANY MATERIALS AND WORKMANSHIP THAT DO NOT CONFORM TO THE PROJECT PLANS AND SPECIFICATIONS. IF THE PROJECT INSPECTOR FINDS ANY DISCREPANCIES DURING CONSTRUCTION THAT CONFLICT WITH THE PLANS AND SPECIFICATIONS, THE INSPECTOR MAY HALT CONSTRUCTION UNTIL THE ISSUE IS RESOLVED.
18. THE CONTRACTOR SHALL NOTIFY THE OWNER IMMEDIATELY OF ANY DISCREPANCIES OR VARIATIONS IN THE DRAWINGS AND SPECIFICATIONS THAT AFFECT PRICING OR THAT COULD REQUIRE MODIFICATIONS TO THE DESIGN.
19. NO CLEATED OR TRACKED EQUIPMENT MAY WORK IN OR MOVE OVER PAVED SURFACES WITHOUT PROTECTIVE MATS.
20. EXISTING CURB, GUTTER, DRIVEWAYS, AND SIDEWALK THAT IS FAILING OR DAMAGED AS PART OF THE CONSTRUCTION ACTIVITIES SHALL BE REPAIRED OR REPLACED AS DIRECTED BY THE OWNER AT NO ADDITIONAL COST.
21. ALL WORK AREAS SHALL BE PROPERLY PROTECTED PRIOR TO THE END OF THE WORKDAY. ALL WORK IS TO BE IN ACCORDANCE WITH APPLICABLE STANDARDS.
22. PRIOR TO INITIAL ACCEPTANCE, ALL DISTURBED PORTIONS OF THE CITY RIGHT-OF-WAY OR CITY PROPERTY SHALL BE CLEANED AND RESTORED TO THE ORIGINAL CONDITION, SUBJECT TO CITY APPROVAL.
23. THE OWNER SHALL APPROVE ANY LOCATIONS THAT THE CONTRACTOR WISHES TO USE FOR MATERIAL OR EQUIPMENT STORAGE PRIOR TO THE CONTRACTOR STORING ANYTHING ON THE AREA. THE CONTRACTOR SHALL RESTORE ANY APPROVED AREAS TO EXISTING CONDITIONS, AT THE CONTRACTOR'S EXPENSE.
24. WHERE EXISTING PROPERTY IS DAMAGED BY THE CONTRACTOR'S OPERATIONS, THE CONTRACTOR SHALL RESEED AND/OR SOD THE AFFECTED AREA TO A CONDITION EQUAL TO OR BETTER THAN THAT WHICH EXISTED PRIOR TO CONSTRUCTION. ANY COSTS ASSOCIATED WITH THIS WORK SHALL BE AT THE CONTRACTOR'S EXPENSE.
25. NO WORK SHALL BE PERMITTED ON WEEKENDS OR HOLIDAYS WITHOUT PRIOR AUTHORIZATION BY THE CITY, OR UNLESS SPECIFIED.
26. WHERE NEW CONSTRUCTION IS TO ABUT EXISTING PAVEMENT, THE EXISTING PAVEMENT SHALL BE REMOVED TO A NEAT VERTICAL LINE TO CREATE A CLEAN CONSTRUCTION JOINT.

27. WHERE IT IS REQUIRED TO REMOVE EXISTING CONCRETE OR ASPHALT, CUTTING SHALL BE DONE TO A NEAT WORK LINE TO FULL DEPTH USING A SAW, CUTTING WHEEL, OR OTHER METHOD APPROVED BY THE OWNER. THIS WILL NOT BE PAID SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF THE WORK.
28. SITE A: ALL EXISTING GRAVEL MATERIAL TO BE REMOVED FOR NEW TRAIL CONSTRUCTION SHALL BE CAREFULLY REMOVED TO PREVENT CONTAMINATION, RE-USED FOR PROPOSED BUFFERS, AND THEN REMAINING EXCESS MATERIAL SHALL BE STOCKPILED ON SITE AND BECOME PROPERTY OF ADAMS COUNTY. CONTACT TREVOR GRAF (720-280-7267) WITH ADAMS COUNTY TO VERIFY STOCKPILE LOCATION, WHICH SHALL REMAIN ON THE PELICAN PONDS OPEN SPACE PROPERTY. ALL WORK SHALL BE PAID FOR AS UNCLASSIFIED EXCAVATION (COMPLETE IN PLACE).

~~29. SITE C: PROPOSED CRUSHER FINES MATERIAL FOR SIDEWALK SHOULDERS SHALL BE PAID FOR AS AGGREGATE BASE COURSE (SPECIAL) AND SHALL CONFORM TO REVISION OF SECTION 505 OF THE PROJECT SPECIFICATIONS. HOWEVER, IF SITE C IS BUILT CONCURRENT WITH SITE A THEN SALVAGED GRAVEL FROM SITE A IS TO BE USED HERE.~~

Plot Date: 2/26/2024 2:14 PM Plotted By: Sophie Scott
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File Name: NT-001 GENERAL NOTES.DWG	
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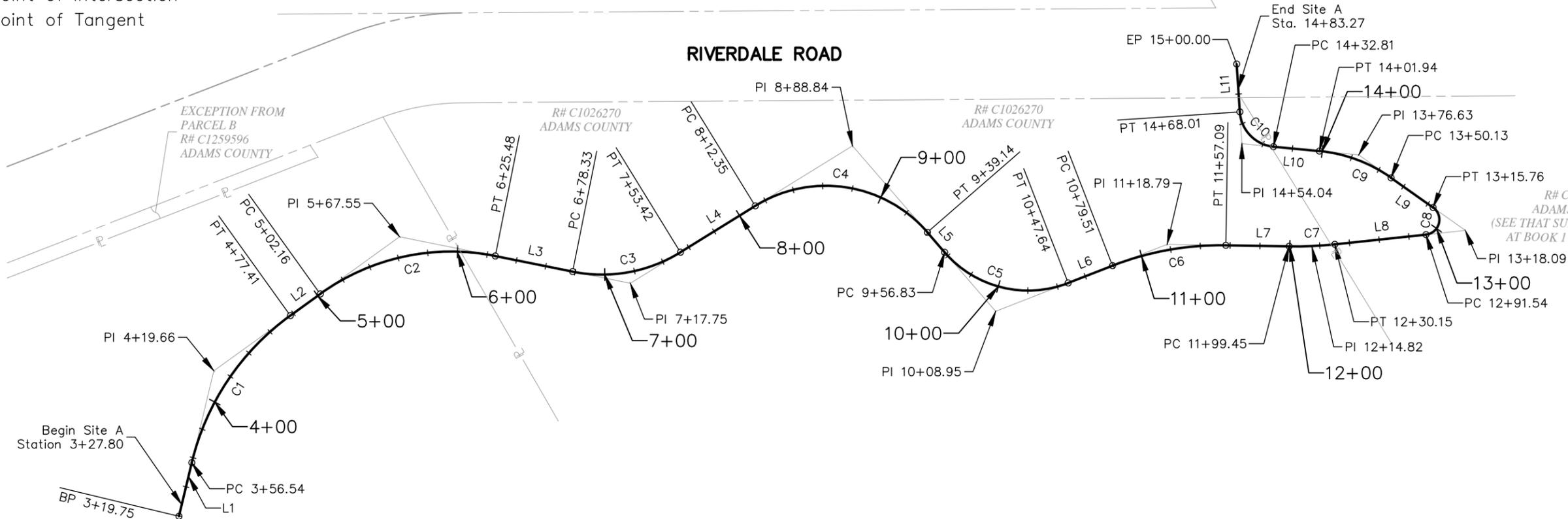
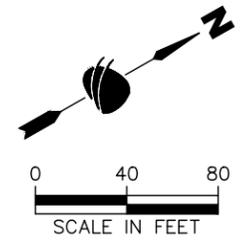
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RIVERDALE TRAIL CONNECTION GENERAL NOTES			
Designer:	S. SCOTT	Structure	
Detailer:	S. SCOTT	Numbers	
Sheet Subset:	NOTES	Subset Sheets:	1 of 1

Project No.
21-674G
Drawing Number NT-001
Sheet Number 7

2/27/2024

BP – Begin Alignment
 EP – End Alignment
 PC – Point of Curve
 PI – Point of Intersection
 PT – Point of Tangent



SITE A						
Line No.	Stations	Northing	Easting	Radius	Length	Line Bearing
L1	3+19.75 3+56.54	738673.77 738698.87	159003.00 158976.10		36.79	N46° 59' 01.65"W
C1	3+56.54 4+19.66 4+77.41	738698.87 738741.93 738804.67	158976.10 158929.95 158923.09	170.00	120.87	N26° 36' 53.09"W
L2	4+77.41 5+02.16	738804.67 738829.27	158923.09 158920.40		24.75	N6° 14' 44.52"W
C2	5+02.16 5+67.55 6+25.48	738829.27 738894.27 738943.72	158920.40 158913.28 158956.06	150.00	123.33	N17° 18' 29.39"E
L3	6+25.48 6+78.33	738943.72 738983.69	158956.06 158990.63		52.84	N40° 51' 43.31"E
C3	6+78.33 7+17.75 7+53.42	738983.69 739013.50 739052.89	158990.63 159016.42 159014.93	100.00	75.10	N19° 20' 53.47"E
L4	7+53.42 8+12.35	739052.89 739111.78	159014.93 159012.71		58.93	N2° 09' 56.38"W

SITE A						
Line No.	Stations	Northing	Easting	Radius	Length	Line Bearing
C4	8+12.35 8+88.84 9+39.14	739111.78 739188.21 739203.39	159012.71 159009.82 159084.78	90.00	126.79	N38° 11' 35.04"E
L5	9+39.14 9+56.83	739203.39 739217.24	159084.78 159102.11		17.68	N78° 33' 06.46"E
C5	9+56.83 10+08.95 10+47.64	739206.90 739217.24 739268.83	159102.11 159153.19 159160.66	74.00	90.82	N43° 23' 34.52"E
L6	10+47.64 10+79.51	739268.83 739300.36	159160.66 159165.22		31.86	N8° 14' 02.58"E
C6	10+79.51 11+18.79 11+57.09	739300.36 739339.24 739373.11	159165.22 159170.85 159190.76	200.00	77.59	N19° 20' 50.47"E
L7	11+57.09 11+99.45	739373.11 739409.62	159190.76 159212.24		42.36	N30° 27' 38.35"E
C7	11+99.45 12+14.82 12+30.15	739409.62 739422.87 739436.97	159212.24 159220.03 159226.14	250.00	30.70	N26° 56' 32.78"E

SITE A						
Line No.	Stations	Northing	Easting	Radius	Length	Line Bearing
L8	12+30.15 12+91.54	739436.97 739493.30	159226.14 159250.55		61.39	N23° 25' 27.20"E
C8	12+91.54 13+18.09 13+15.76	739493.30 739517.67 739506.32	159250.55 159261.10 159237.10	10.00	24.21	N45° 56' 11.92"W
L9	13+15.76 13+50.13	739506.32 739491.63	159237.10 159206.02		34.37	S64° 42' 08.95"W
C9	13+50.13 13+76.63 14+01.94	739491.63 739480.31 739458.60	159206.02 159182.06 159166.85	100.00	51.81	S49° 51' 33.63"W
L10	14+01.94 14+32.81	739458.60 739433.32	159166.85 159149.14		30.87	S35° 00' 58.30"W
C10	14+32.81 14+54.04 14+68.01	739433.32 739415.94 739425.13	159149.14 159136.96 159117.83	25.00	35.19	S75° 20' 46.30"W
L11	14+68.01 15+00.00	739425.13 739439.00	159117.83 159089.00		31.99	N64° 19' 25.70"W

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2/27/2024



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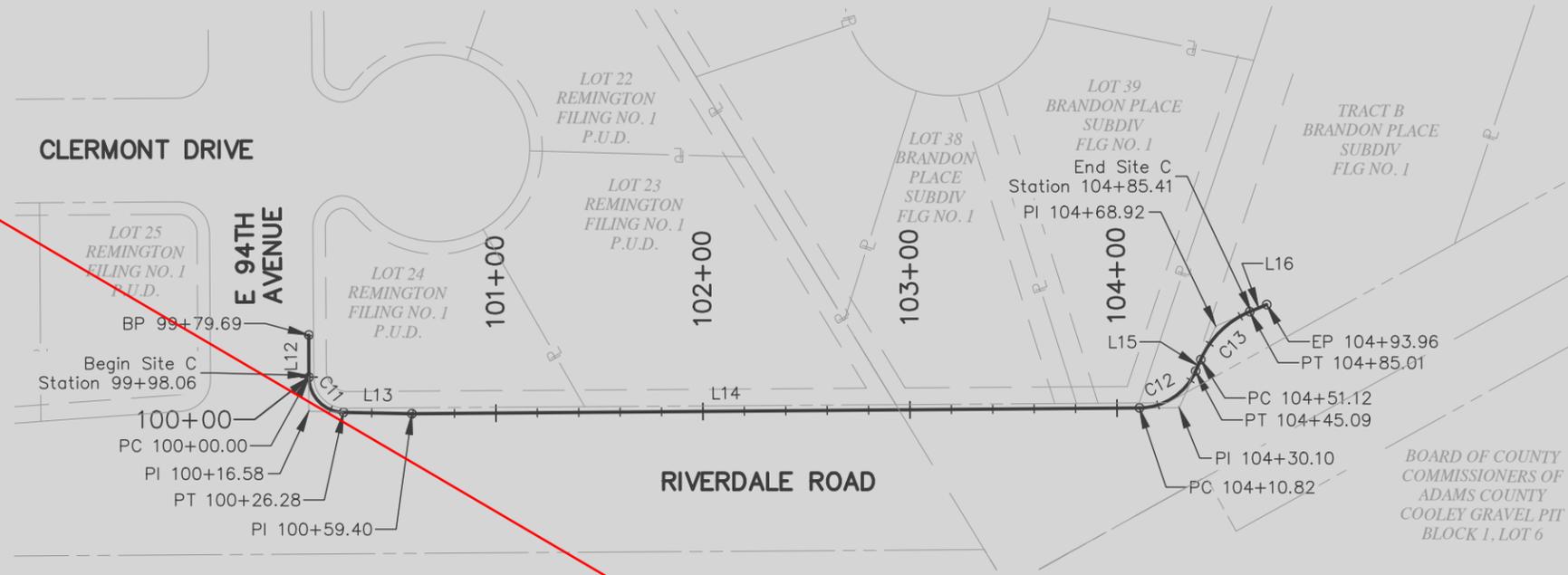
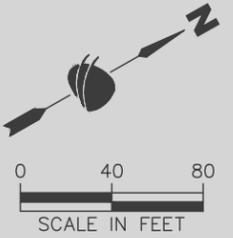
**RIVERDALE TRAIL CONNECTION
 GEOMETRIC PLANS
 SITE A**

Designer: S. SCOTT
 Detailer: C. MCNAMARA

Sheet Subset: HALIGN
 Subset Sheets: 1 of 2

Project No.
21-674G
Drawing Number CRV-001
Sheet Number 8

BP – Begin Alignment
 EP – End Alignment
 PC – Point of Curve
 PI – Point of Intersection
 PT – Point of Tangent



SITE C						
Line No.	Stations	Northing	Easting	Radius	Length	Line Bearing
L12	99+79.69 100+00.00	741310.52 741300.58	160036.59 160054.30		20.31	S60° 41' 13.03"E
C11	100+00.00 100+16.58 100+26.28	741300.58 741292.46 741306.71	160054.30 160068.76 160077.24	17.00	26.28	N75° 01' 29.08"E
L13	100+26.28 100+59.40	741306.71 741335.18	160077.24 160094.16		33.12	N30° 44' 11.19"E
C12	104+10.82 104+30.10 104+45.09	741642.41 741659.27 741674.78	160264.76 160274.12 160262.67	30.00	34.28	N3° 41' 17.09"W
L15	104+45.09 104+51.12	741674.78 741679.64	160262.67 160259.09		6.03	N36° 25' 07.22"W
C13	104+51.12 104+68.92 104+85.01	741679.64 741693.96 741711.63	160259.09 160248.53 160250.62	45.00	33.89	N14° 50' 40.33"W
L16	104+85.01 104+93.96	741711.63 741720.51	160250.62 160251.66		8.94	N6° 43' 46.55"E

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2/27/2024



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**RIVERDALE TRAIL CONNECTION
 GEOMETRIC PLANS
 SITE C**

Designer: S. SCOTT
 Detailer: C. MCNAMARA

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 Subset Sheets: 2 of 2

Project No.
21-674G
Drawing Number CRV-002
Sheet Number 9

Plot Date: 2/26/2024 7:32 PM Plotted By: Sophie Scott
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INDEX			CONTRACT ITEM NO.	CONTRACT ITEM	UNIT	Site A & B				PROJECT TOTALS			
BOOK	PAGE	SHEET				PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.
			201-00000	Clearing and Grubbing	LS	1			1			1	
			202-00204	Removal of Curb, Gutter and Sidewalk	LF		30				28		30
			202-00206	Removal of Concrete Curb Ramp	SY		33				26		33
			202-00210	Removal of Concrete Pavement	SY						14		
			203-00010	Unclassified Excavation (Complete In Place)	CY	340	4		33		4		344
			207-00205	Topsoil	CY				20				
			207-00210	Stockpile Topsoil	CY				20				
			208-00201	Erosion Control	LS	1	1		1		1		2
			210-00810	Reset Ground Sign	EACH		1				1		1
			212-00006	Seeding (Native)	ACRE				0.04				
			212-01200	Landscape Restoration	LS		1				1		1
			304-06007	Aggregate Base Course (Class 6)	CY						3		
			304-09000	Aggregate Base Course (Special)	CY				15				
			306-01000	Reconditioning	SY	2,130			602				2,130
			403-00721	Hot Mix Asphalt (Patching) (Asphalt)	SY		20				18		20
			412-00800	Concrete Pavement (8 Inch)	SY						12		
			608-00006	Concrete Sidewalk (6 Inch)	SY	1,367			434				1367
			608-00010	Concrete Curb Ramp	SY		39				32		39
			609-22021	Curb, Gutter and Sidewalk Type 2 (Section MS)	LF		21				28		21
			625-00000	Construction Surveying	LS	1	1		1		1		2

INDEX			CONTRACT ITEM NO.	CONTRACT ITEM	UNIT	Site A & B				PROJECT TOTALS			
BOOK	PAGE	SHEET				PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.
			626-00000	Mobilization	LS	1		1		1		1	2
			630-00016	Traffic Control (Special)	LS	1		1		1		1	2

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**RIVERDALE TRAIL CONNECTION
 SUMMARY OF APPROXIMATE
 QUANTITIES**

Designer: S. SCOTT
 Detailer: C. MCNAMARA
 Sheet Subset: SAQ

Structure Numbers
 Subset Sheets: 1 of 1

Project No.
21-674G
Drawing Number SAQ-001
Sheet Number 10

2/27/2024

TABULATION OF REMOVALS, RESETS, AND ADJUSTMENTS

STATION	SIDE	REMOVAL OF CURB, GUTTER AND SIDEWALK (202-00204)	REMOVAL OF CONCRETE CURB RAMP (202-00206)	REMOVAL OF CONCRETE PAVEMENT (202-00210)	RESET GROUND SIGN (210-00810)	REMARKS
		LF	SY	SY	EA	
Site B						
Clermont & Bellaire		30	33		1	
Site D						
Clermont & E 94th		28	26	14	1	
TOTALS		58	59	14	2	

TABULATION OF PAVEMENT ITEMS

STATION	Side	AGGREGATE BASE COURSE (CLASS 6) 304-06007	AGGREGATE BASE COURSE (SPECIAL) 304-09000	HOT MIX ASPHALT (PATCHING) (ASPHALT) 403-00720	Remarks
		CY	CY	SY	
Site B					
Clermont & Bellaire				20	
Site C					
99+98.06 - 104+10.82	Lt.		15		
Site D					
Clermont & E 94th Ave		3		18	
TOTALS		3	15	38	

TABULATION OF CONCRETE ITEMS

STATION	SIDE	CONCRETE PAVEMENT (8 INCH) 412-00800	CONCRETE SIDEWALK (6 INCH) 608-00006	CONCRETE CURB RAMP 608-00010	CURB AND GUTTER TYPE 2 (SECTION IIB) 609-21020	CURB, GUTTER AND SIDEWALK TYPE 2 (SECTION MS) 609-22021	REMARKS
		SY	SY	SY	LF	LF	
Site A							
03+27.80 - 14+82.27	Rt./Lt.		1367				
Site B							
Clermont & Bellaire				39	21		
Site C							
99+98.06 - 100+08.39	Lt.				14		
99+98.06 - 104+85.56	Lt.		434				
Site D							
Clermont & E 94th Ave		12		32	28		
Total		12	1,801	71	14	49	

SUMMARY OF EARTHWORK QUANTITIES

UNCLASSIFIED EXCAVATION	CUBIC YARDS
FOR SITE A	340
FOR SITE B	4
FOR SITE C	33
FOR SITE D	4
TOTAL	381
FOR INFORMATION ONLY	
EMBANKMENT MATERIAL (COMPLETE IN PLACE) (NET)	CUBIC YARDS
FOR SITE A	152
FOR SITE C	16
TOTAL	167
EARTHWORK QUANTITIES BALANCE	
UNCLASSIFIED EXCAVATION	CUBIC YARDS
TOTAL UNCLASSIFIED EXCAVATION	381
TOTAL EXCESS MATERIAL	213

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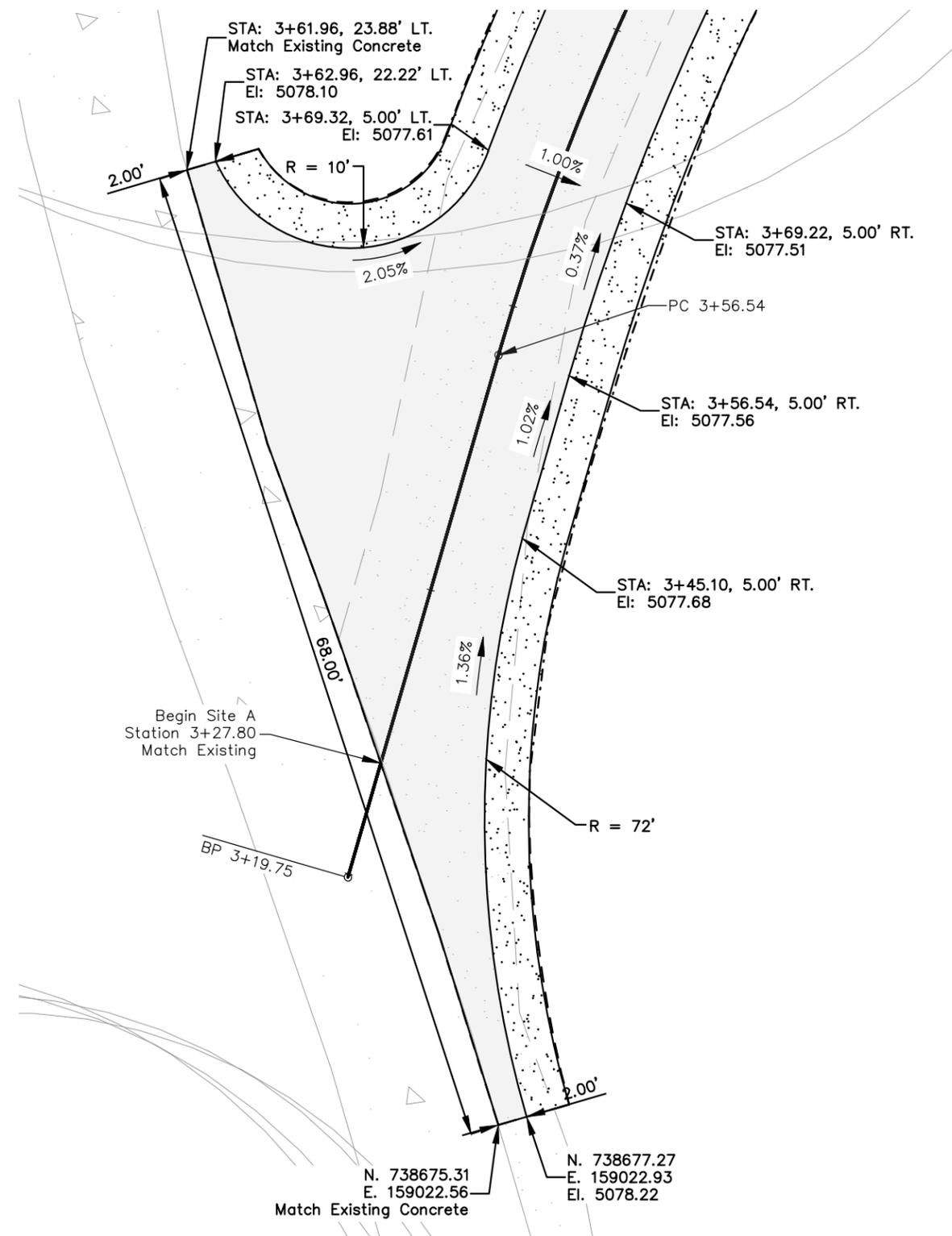
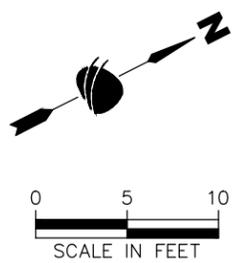
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RIVERDALE TRAIL CONNECTION TABULATIONS

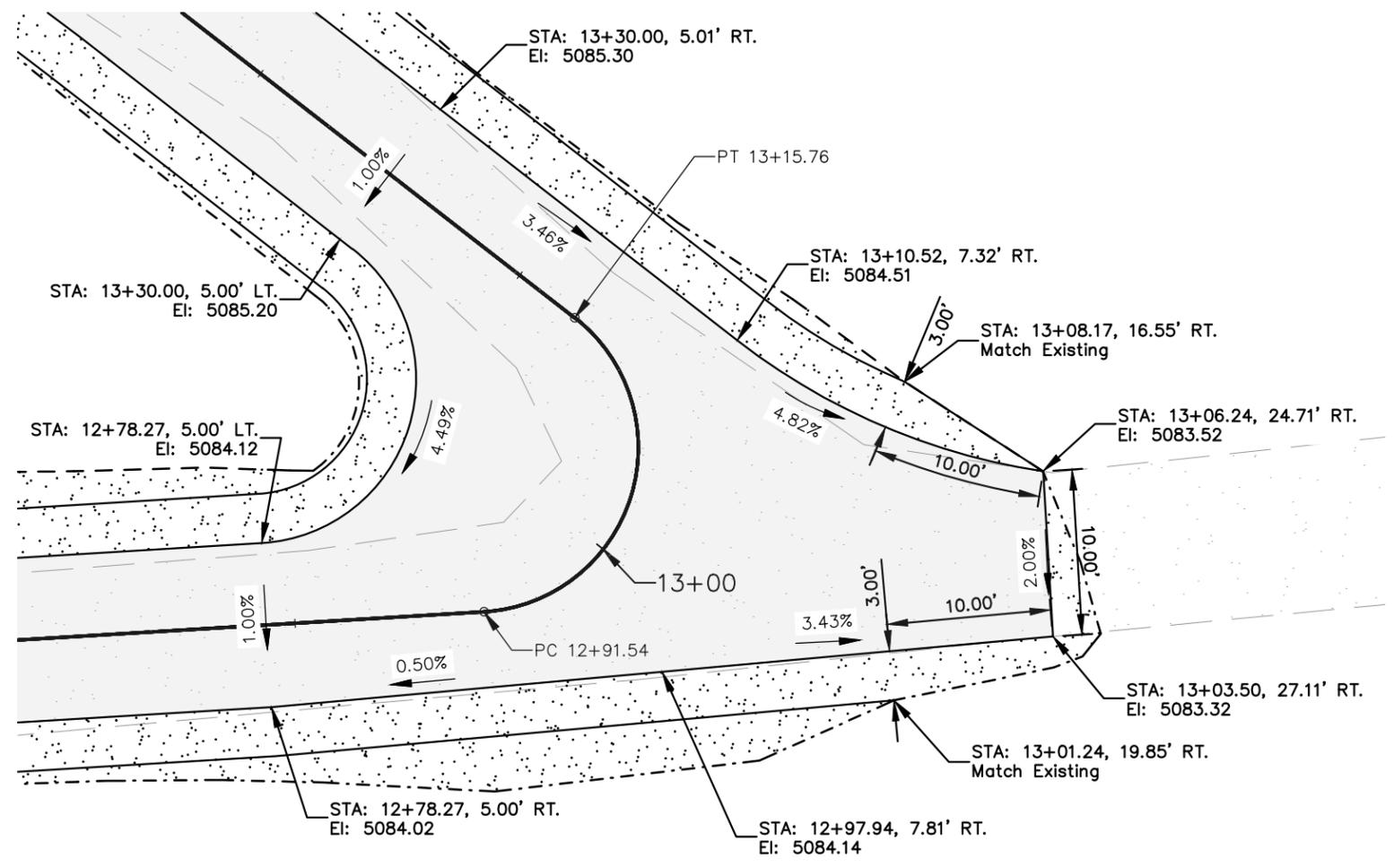
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Detailer: C. MCNAMARA	
Sheet Subset: TABS	Subset Sheets: 1 of 1

Project No.
21-674G
Drawing Number TAB-001
Sheet Number 11

2/27/2024



TRANSITION DETAIL
Sta. 3+27.80 to 3+69.22



TRANSITION DETAIL
Sta. 12+78.27 to 13+30.00

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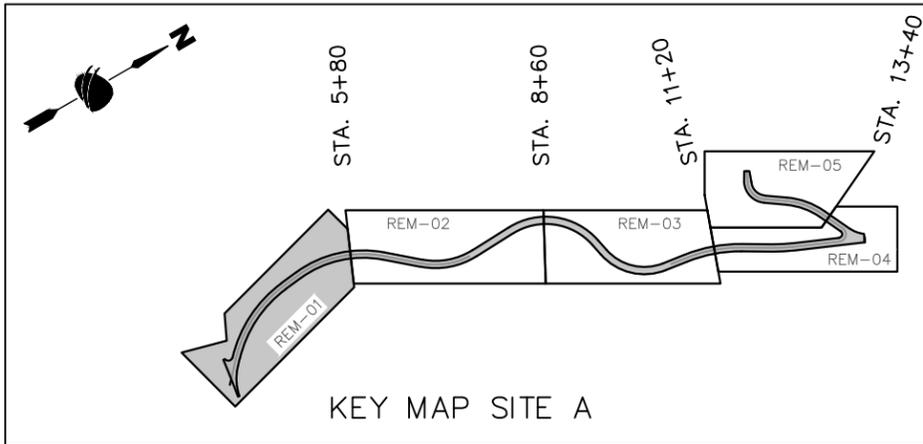
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Designer:	S. SCOTT	Structure Numbers
Detailer:	S. SCOTT	
Sheet Subset:	DETAIL	Subset Sheets: 1 of 1

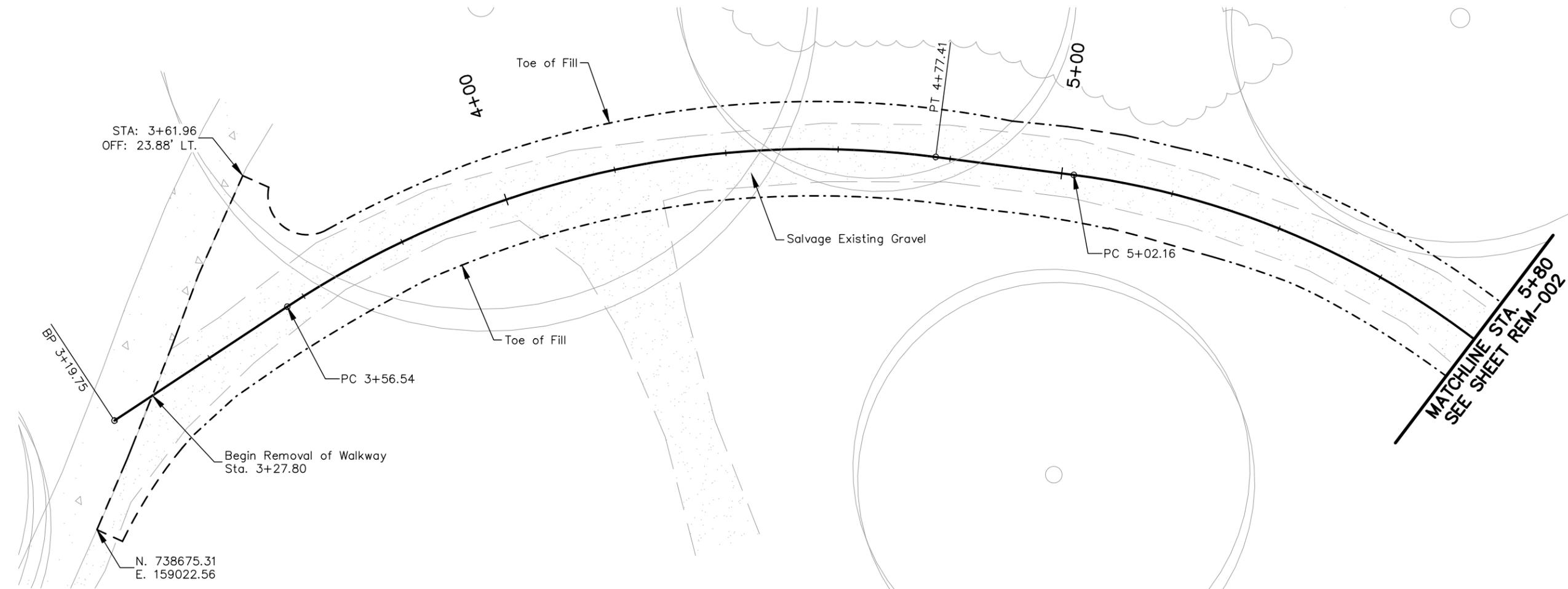
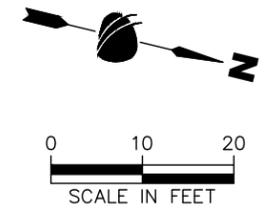
Project No.	21-674G
Drawing Number	DET-001
Sheet Number	12



2/27/2024



Notes:
 1. Salvage existing gravel includes full width of existing gravel. This gravel shall be re-used for trail buffer in Site A.



MATCHLINE STA. 5+80
 SEE SHEET REM-002

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2/27/2024



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Date	Comments	Initials

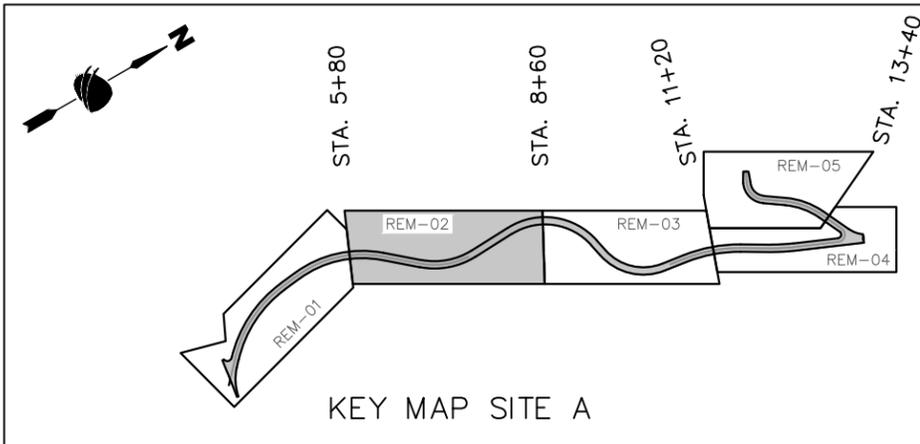


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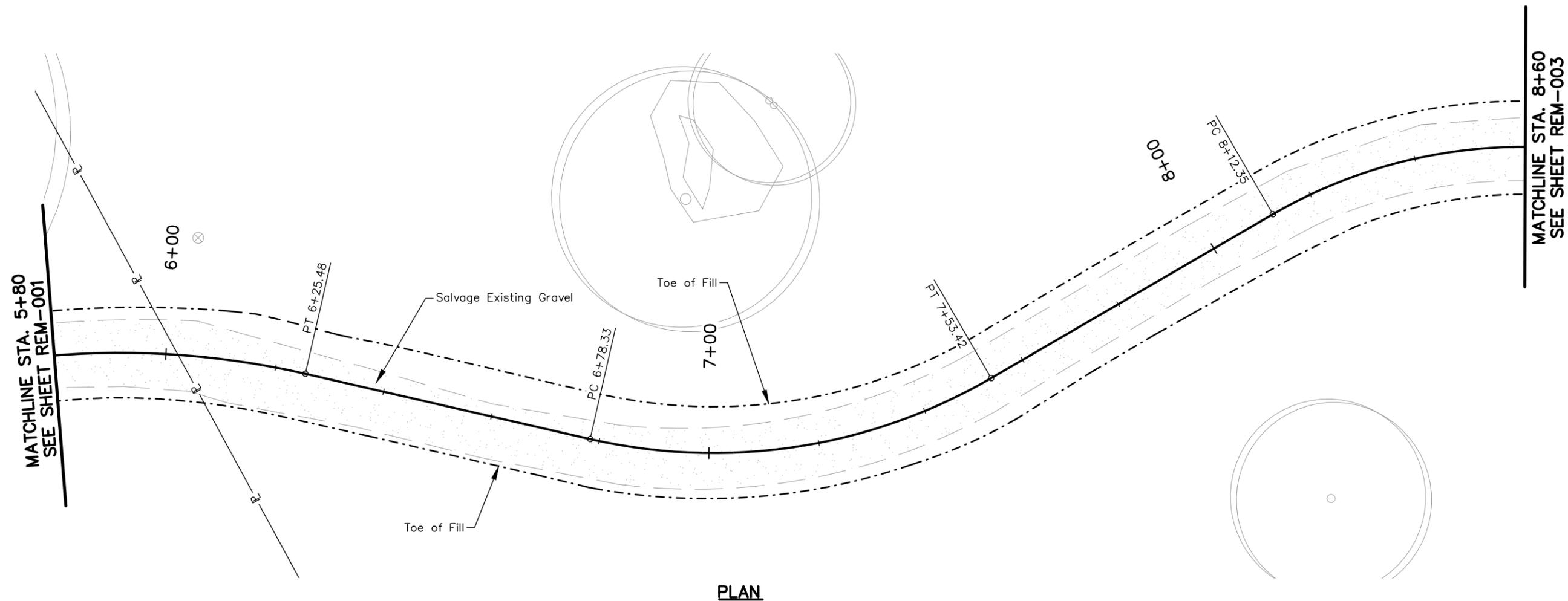
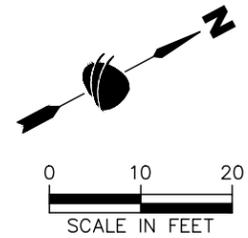
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Designer: S. SCOTT	Structure Numbers	Sheet Subset: REMOVALS Subset Sheets: 1 of 7
Detailer: C. MCNAMARA		

Project No.
21-674G
Drawing Number REM-001
Sheet Number 13



Notes:

- Salvage existing gravel includes full width of existing gravel. This gravel shall be re-used for trail buffer in Site A.



PLAN

Plot Date: 2/26/2024 2:31 PM Plotted By: Sophie Scott
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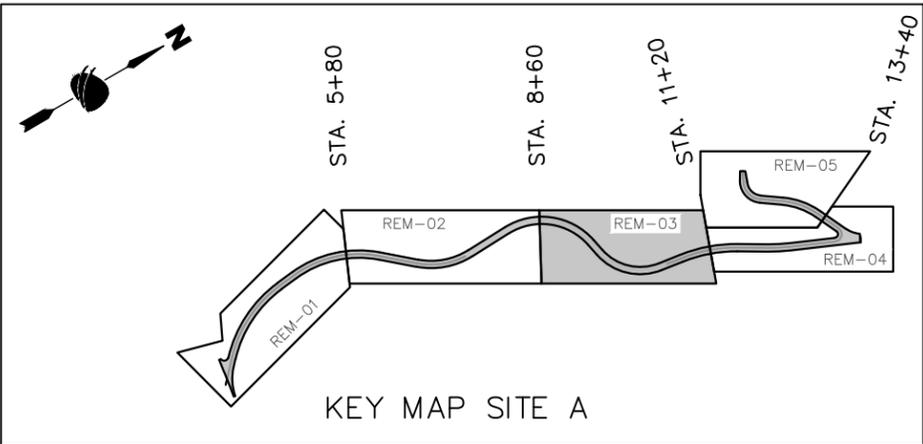
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Detailer: C. MCNAMARA	
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21-674G
Drawing Number REM-002
Sheet Number 14

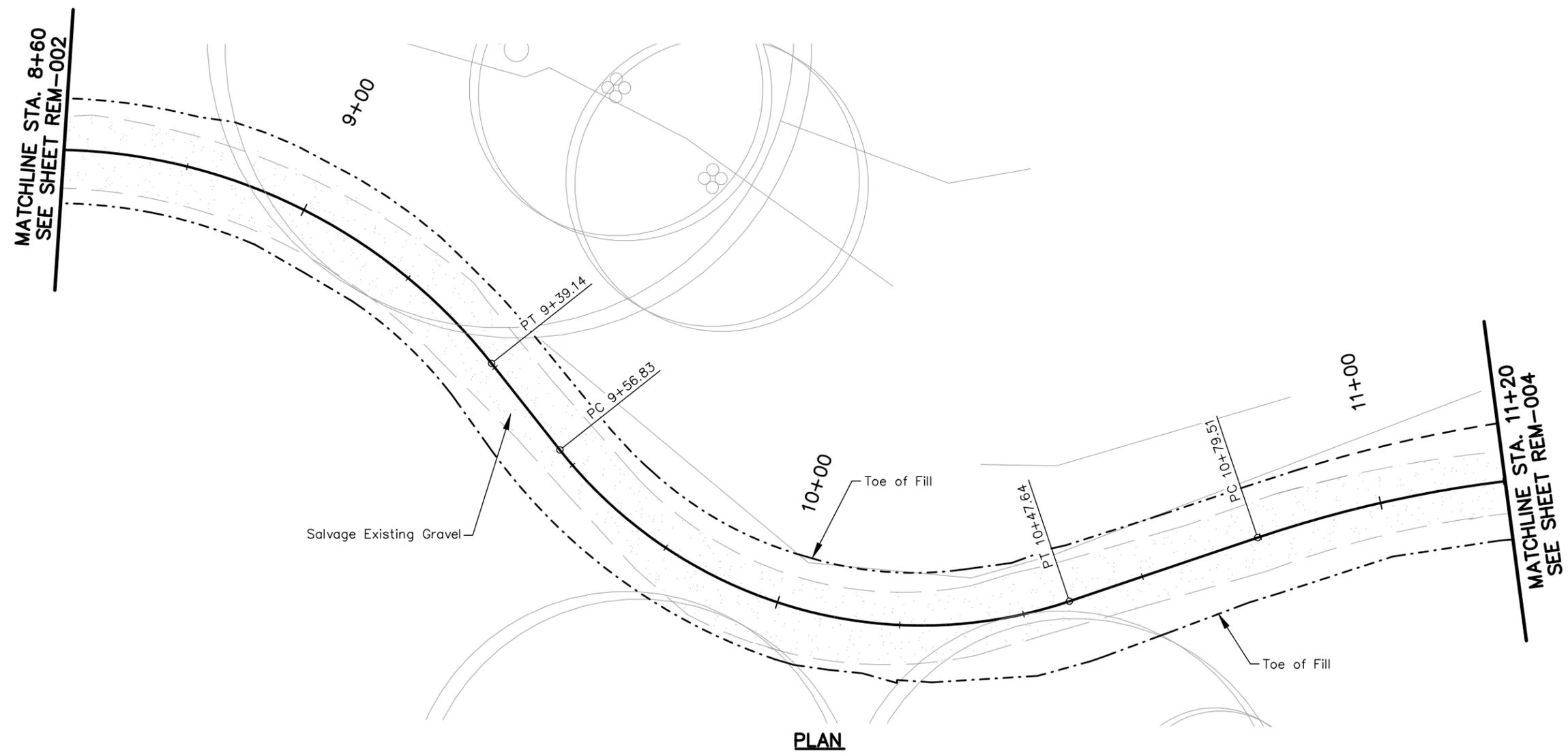
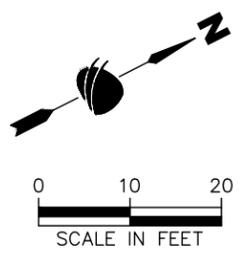


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- Notes:
- Salvage existing gravel includes full width of existing gravel. This gravel shall be re-used for trail buffer in Site A.



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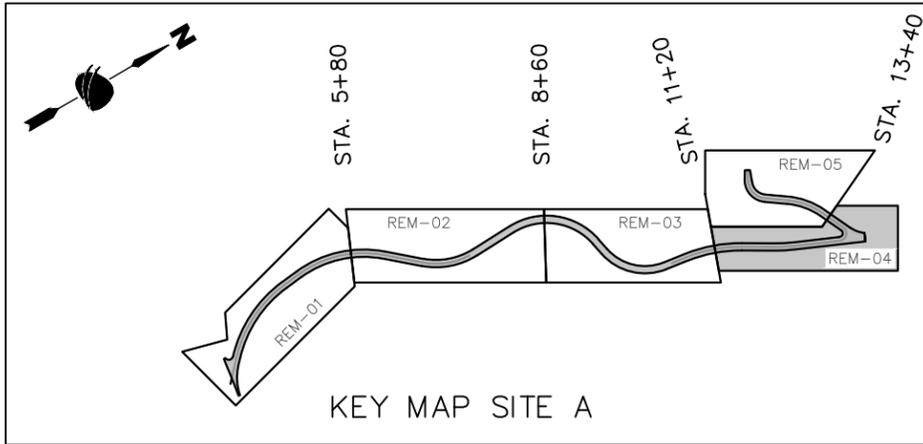
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Detailer: C. MCNAMARA	
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Drawing Number REM-003
Sheet Number 15

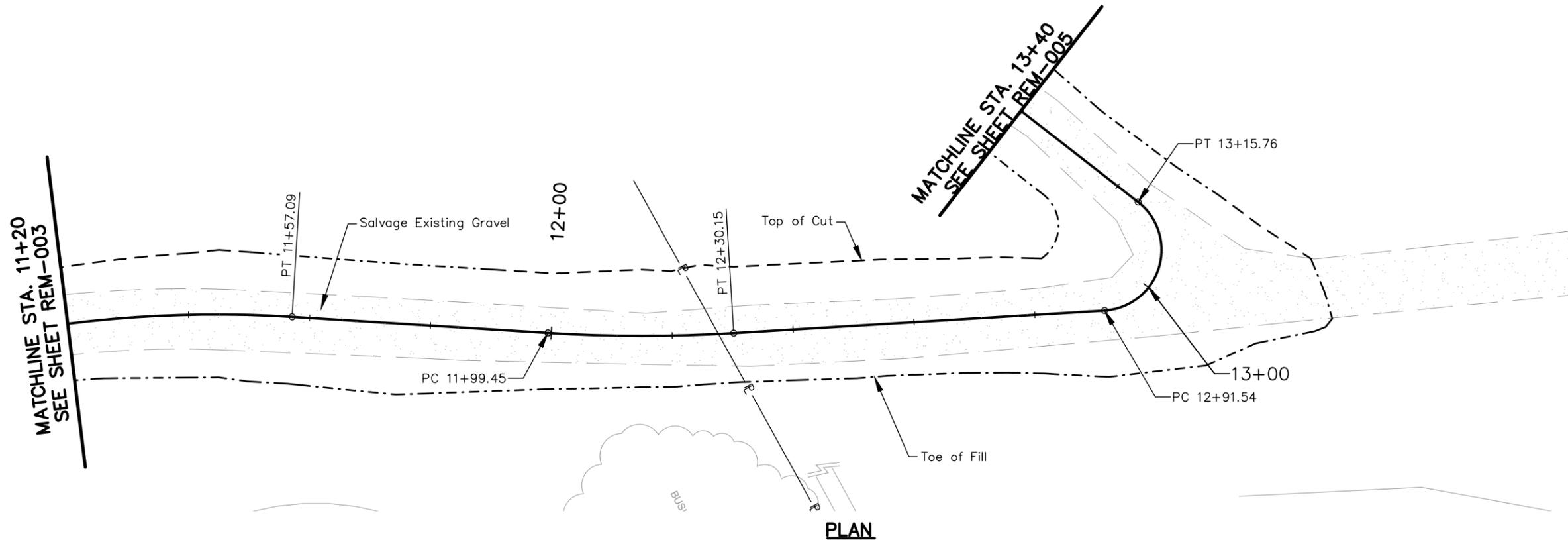
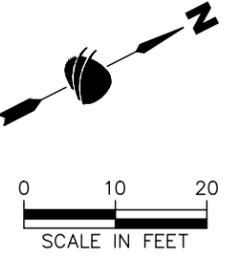


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Notes:

- Salvage existing gravel includes full width of existing gravel. This gravel shall be re-used for trail buffer in Site A.



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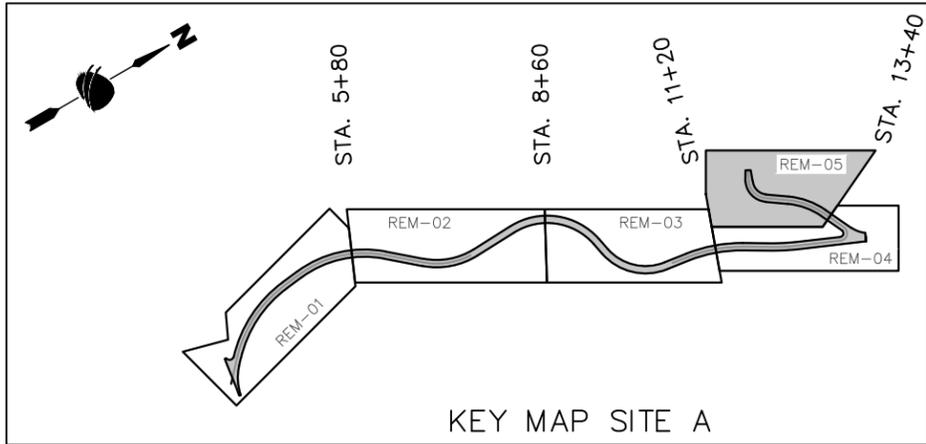


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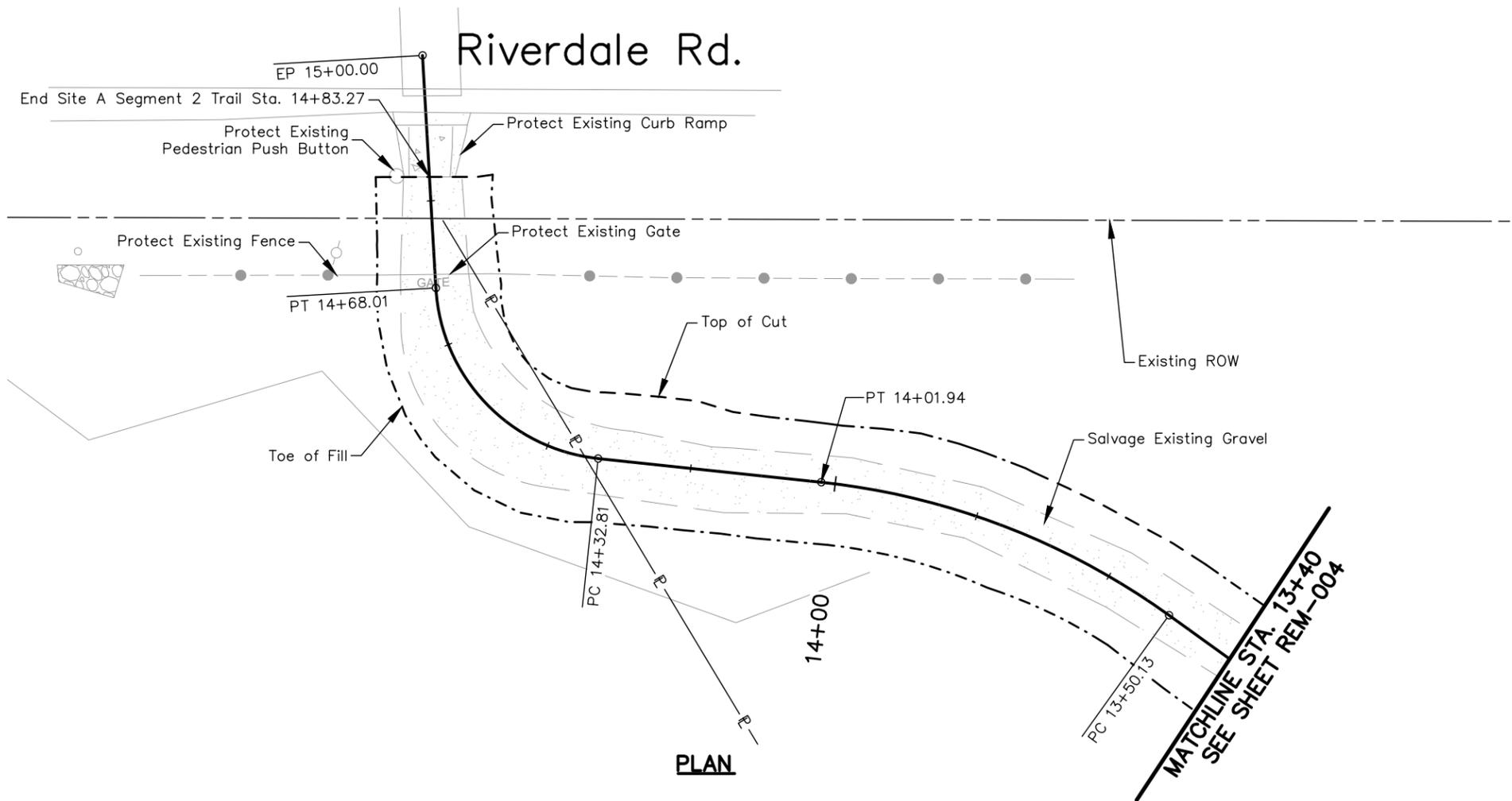
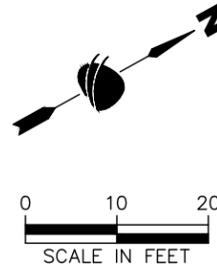
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Designer: S. SCOTT	Structure Numbers
Detailer: C. MCNAMARA	
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Project No.
21-674G
Drawing Number REM-004
Sheet Number 16



Notes:

- Salvage existing gravel includes full width of existing gravel. This gravel shall be re-used for trail buffer in Site A.



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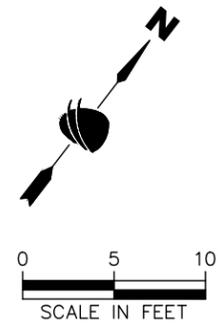
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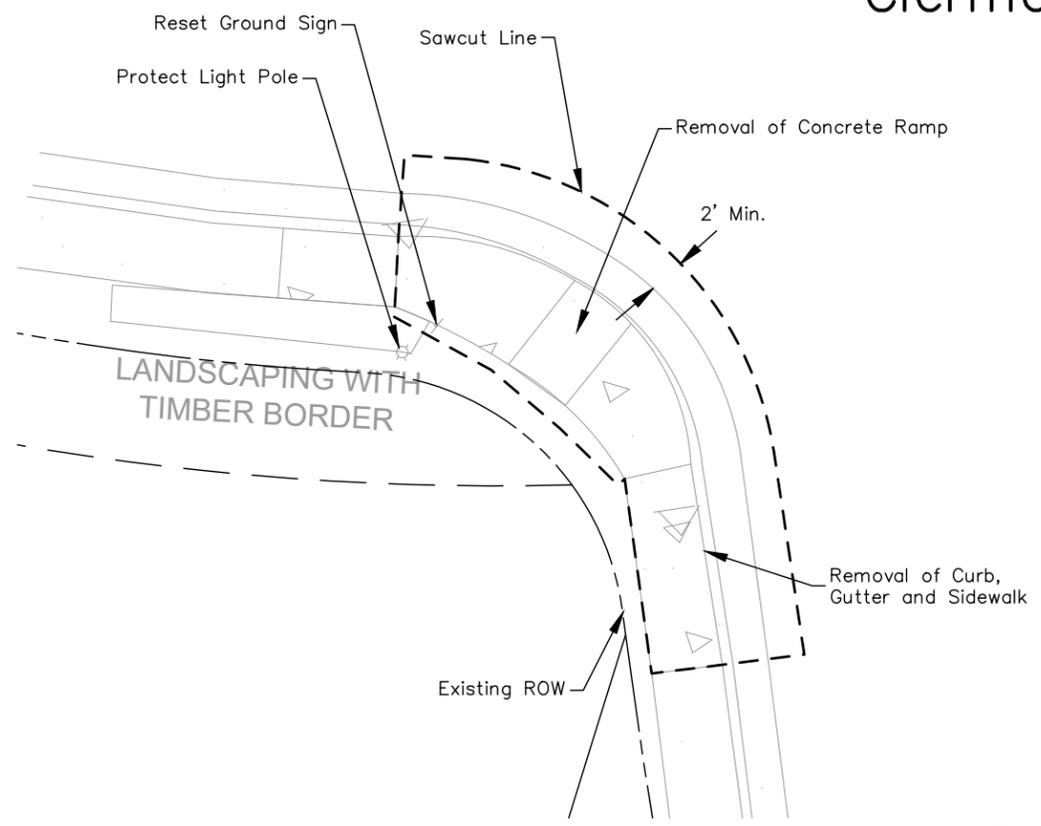
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Detailer: C. MCNAMARA	
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Project No.
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Drawing Number REM-005
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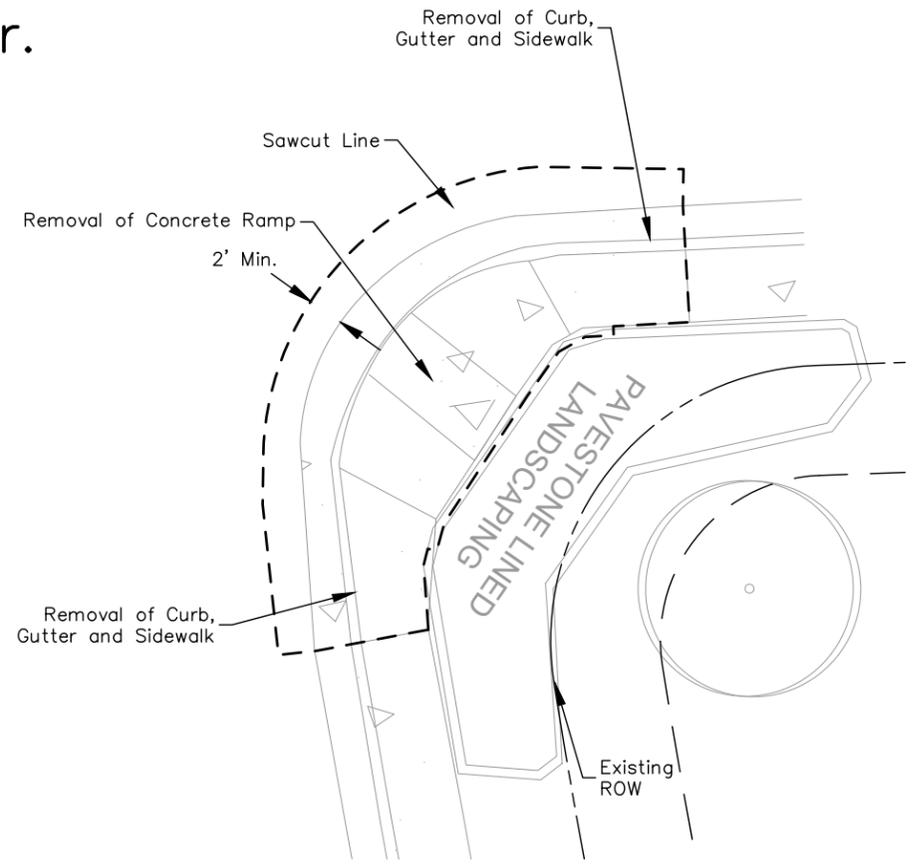


Clermont Dr.



Bellaire St.

PLAN



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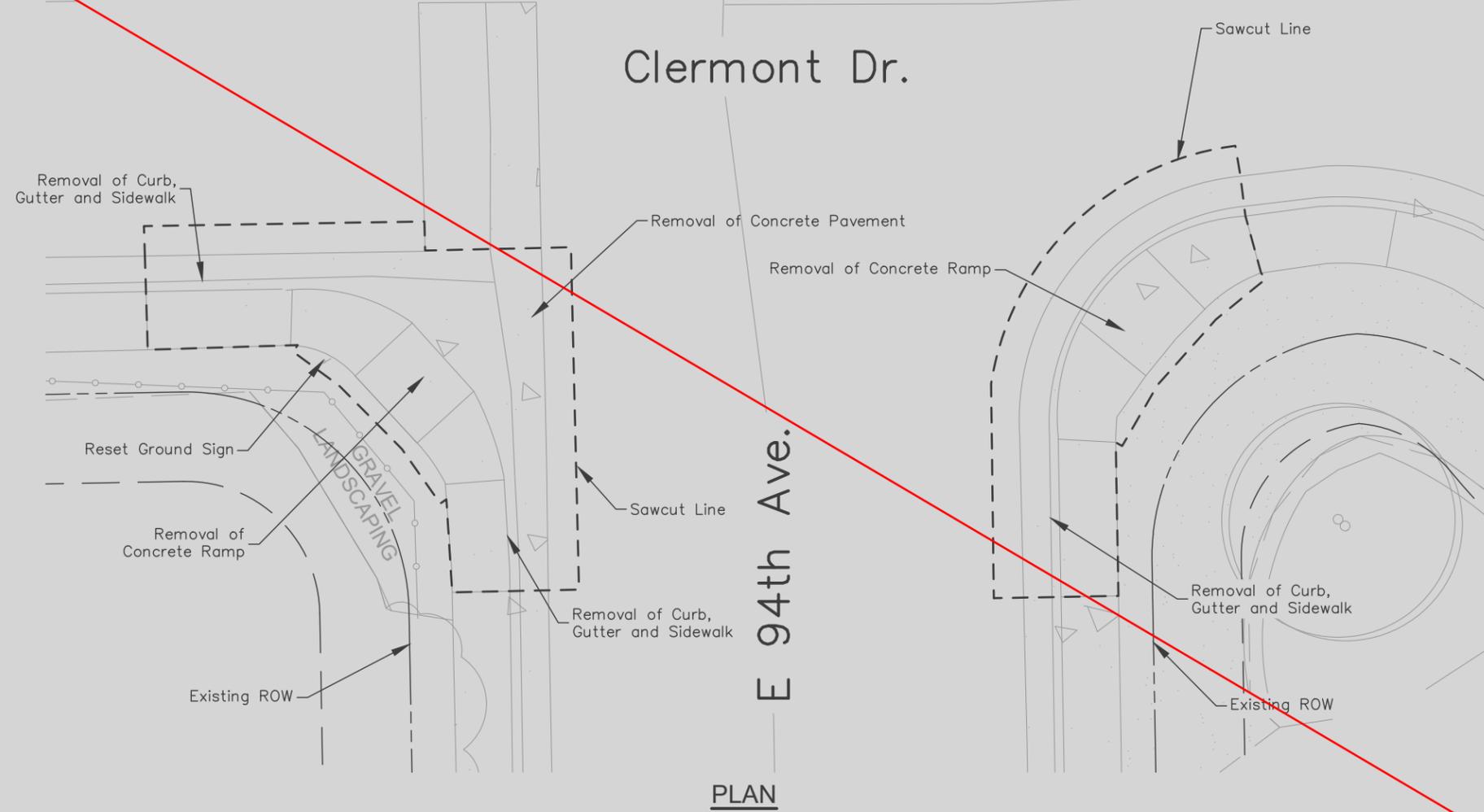
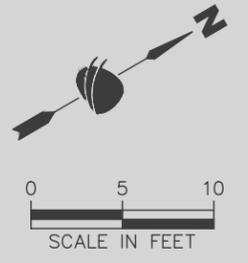
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Detailer: C. MCNAMARA		

Project No.
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Drawing Number REM-006
Sheet Number 18



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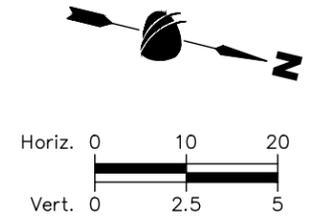
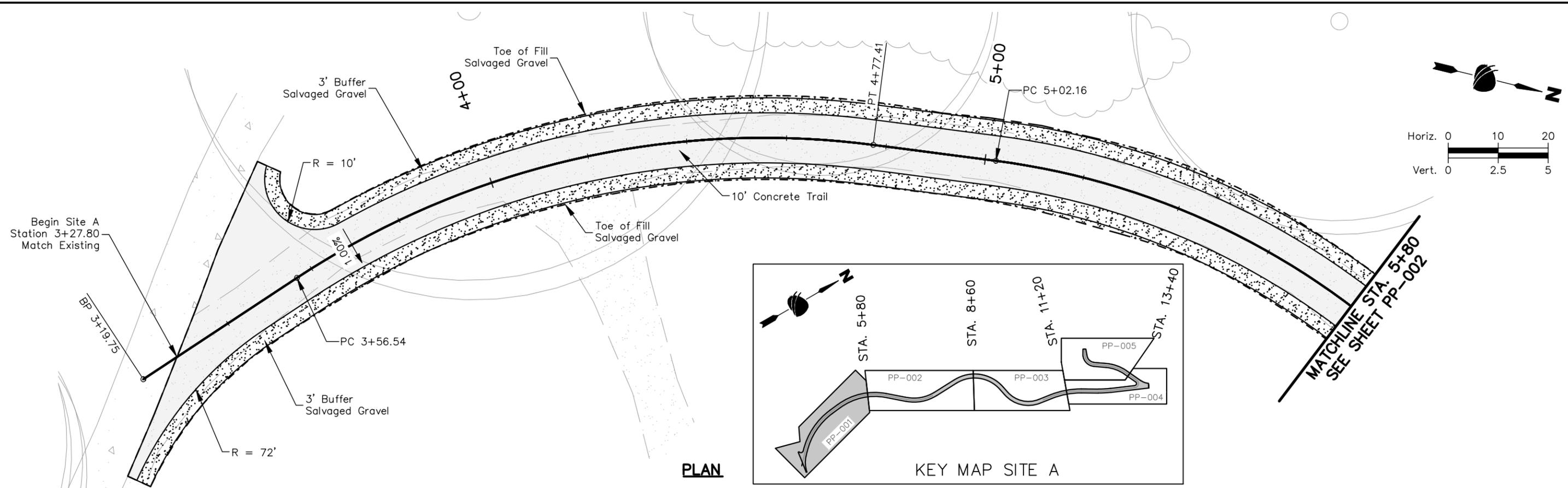


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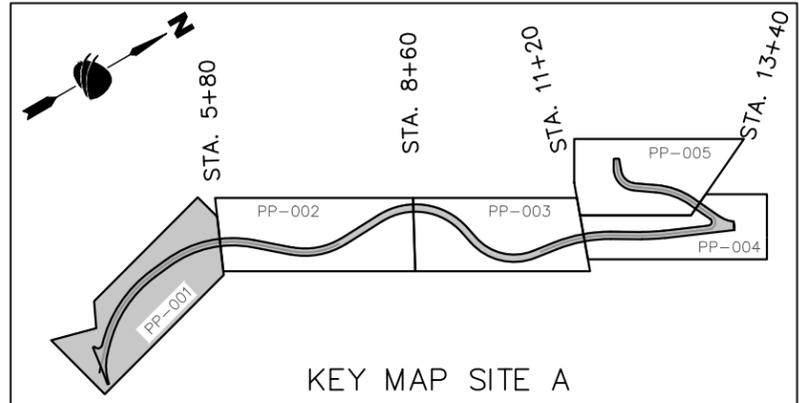
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Detailer: C. MCNAMARA		

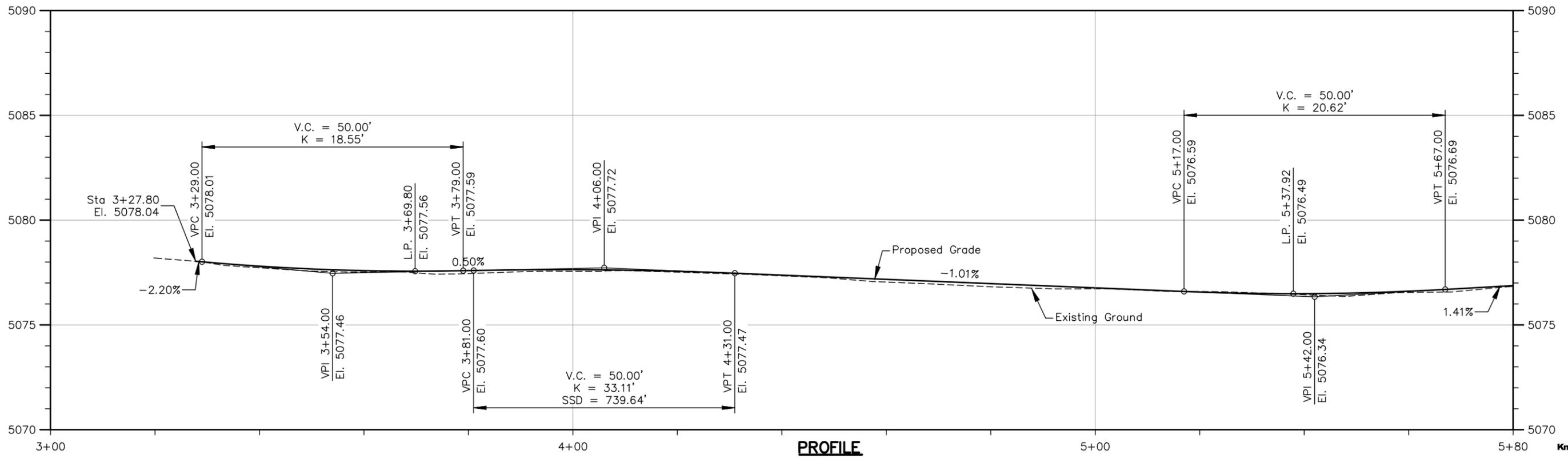
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Drawing Number REM-007
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PLAN



KEY MAP SITE A



PROFILE



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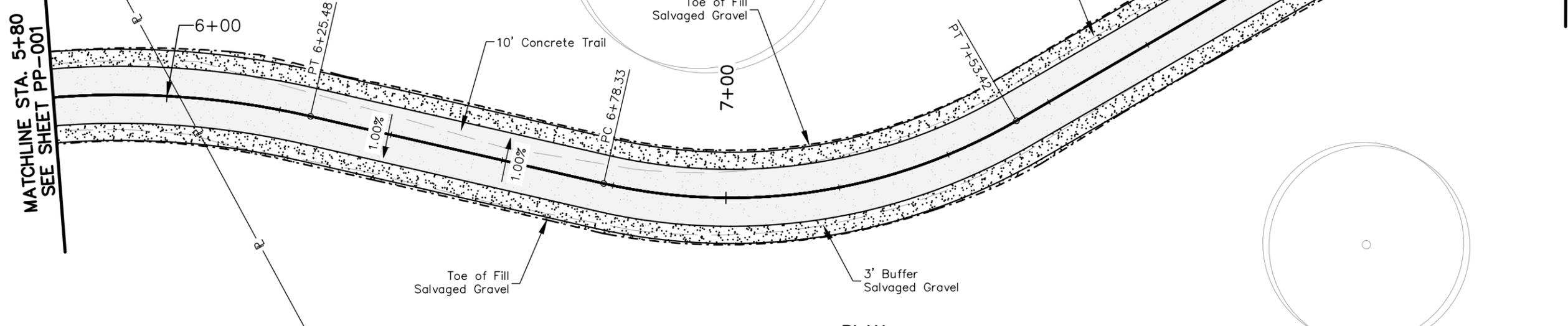
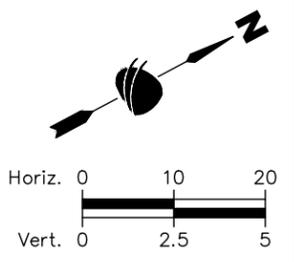
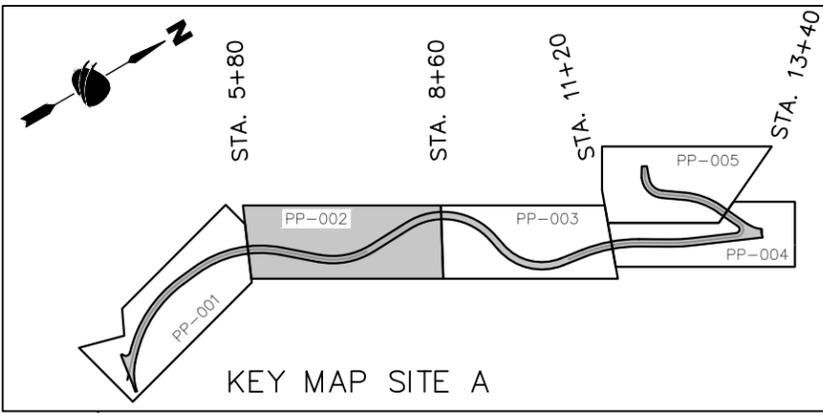
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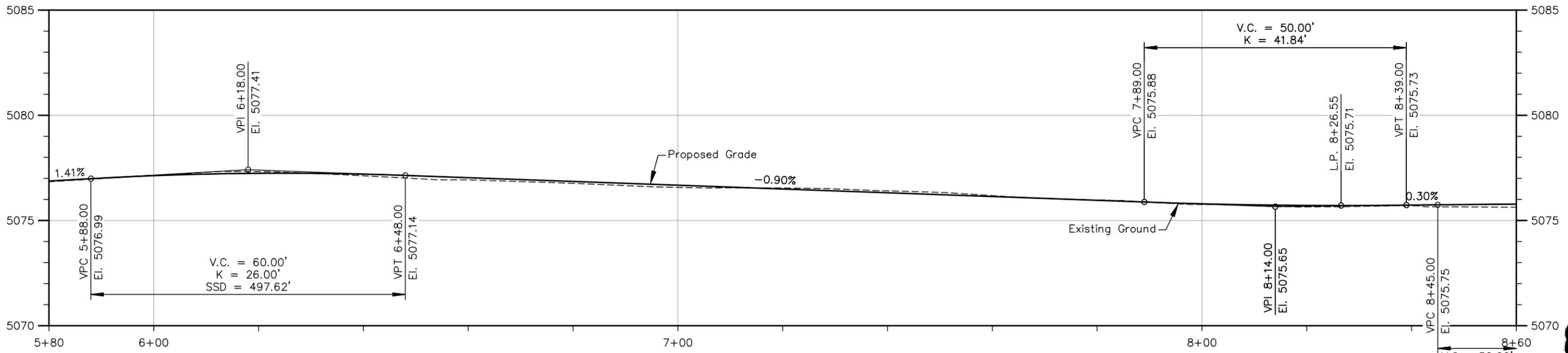
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Detailer: C. MCNAMARA		

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Drawing Number PP-001
Sheet Number 20

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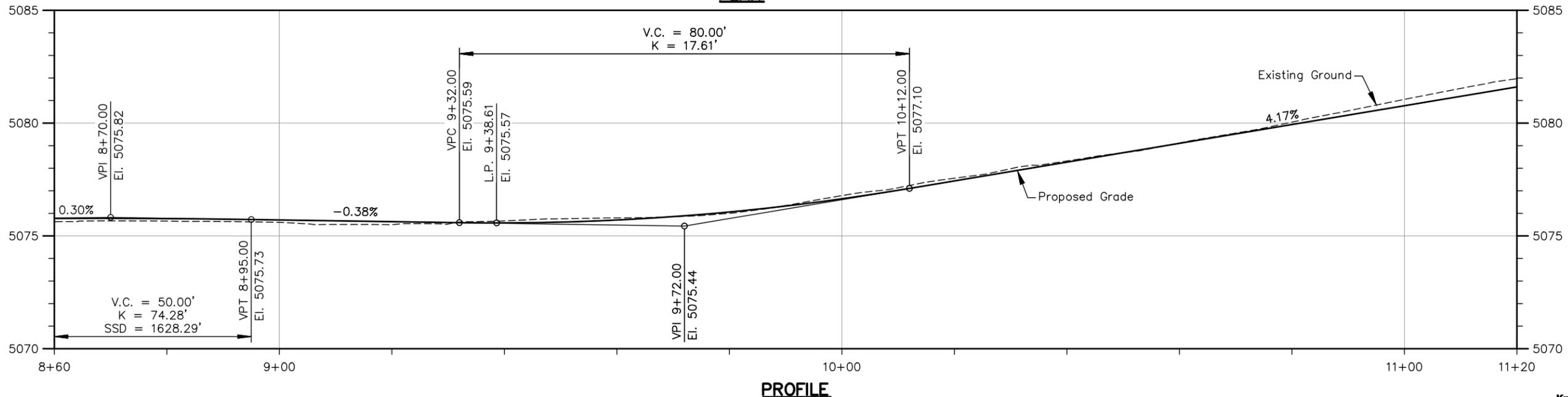
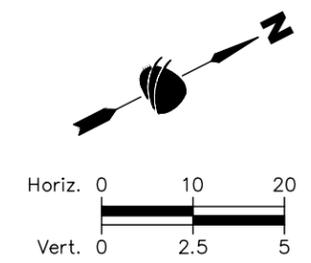
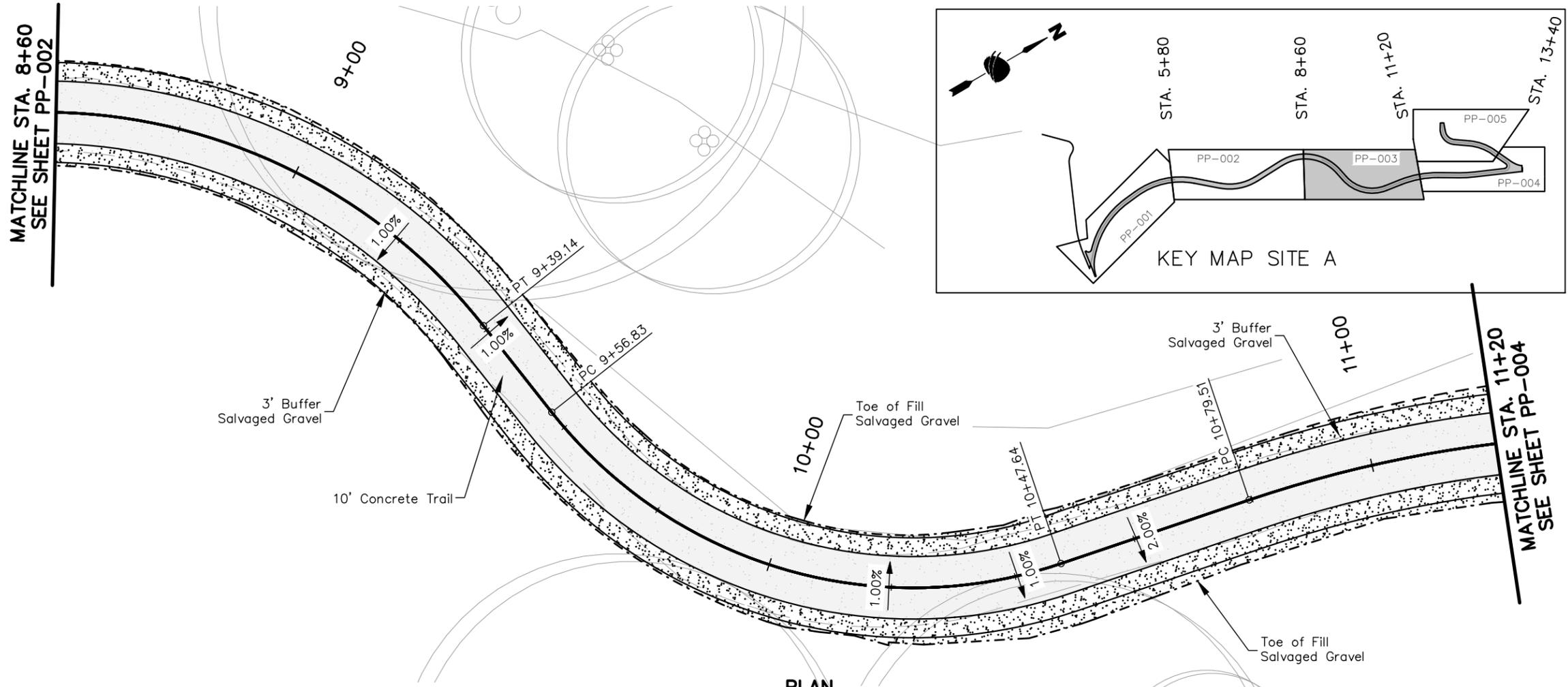
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Designer: S. SCOTT	Structure Numbers:
Detailer: C. MCNAMARA	
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Drawing Number	PP-002
Sheet Number	21

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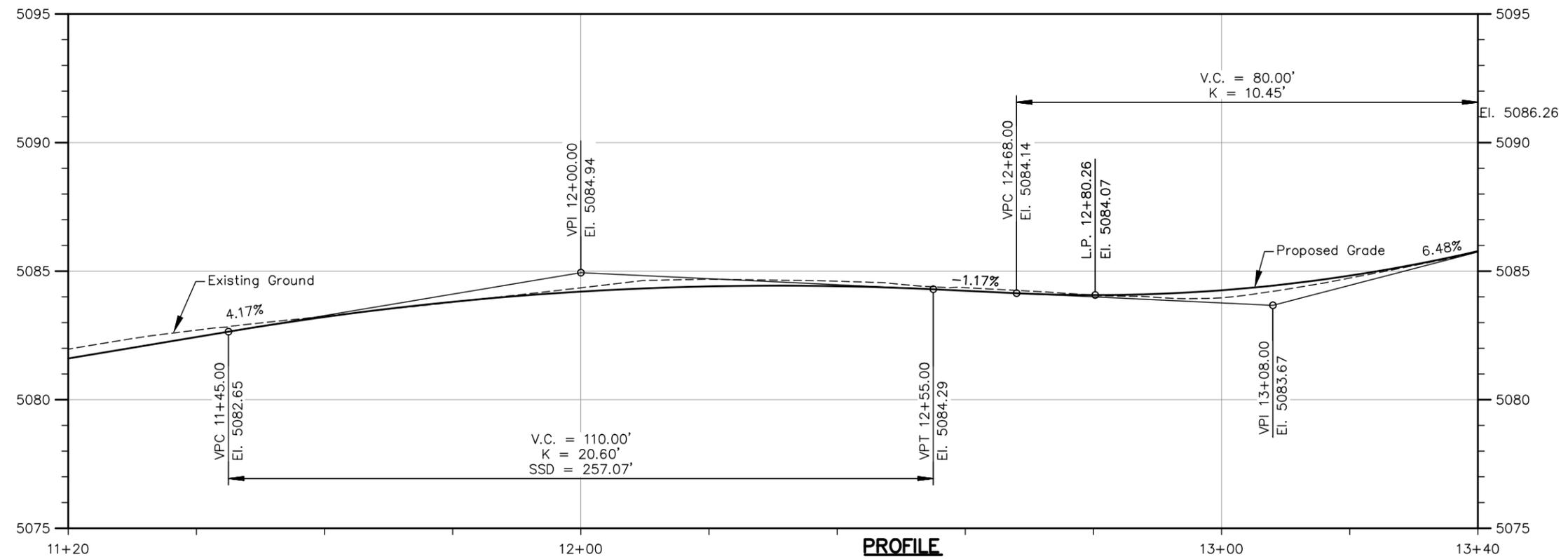
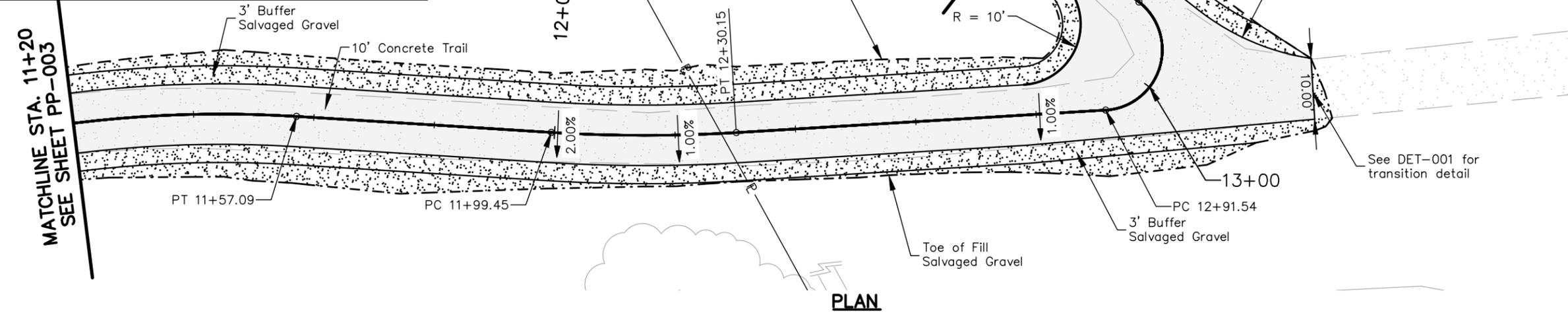
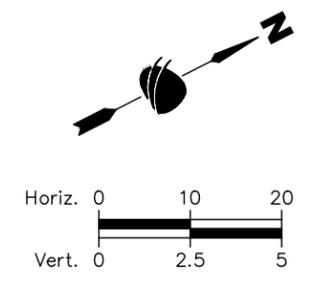
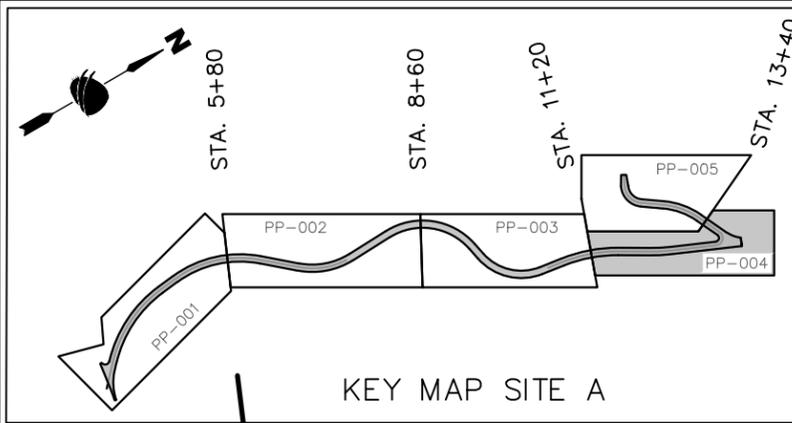


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Detailer:	C. MCNAMARA	
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Drawing Number PP-003
Sheet Number 22



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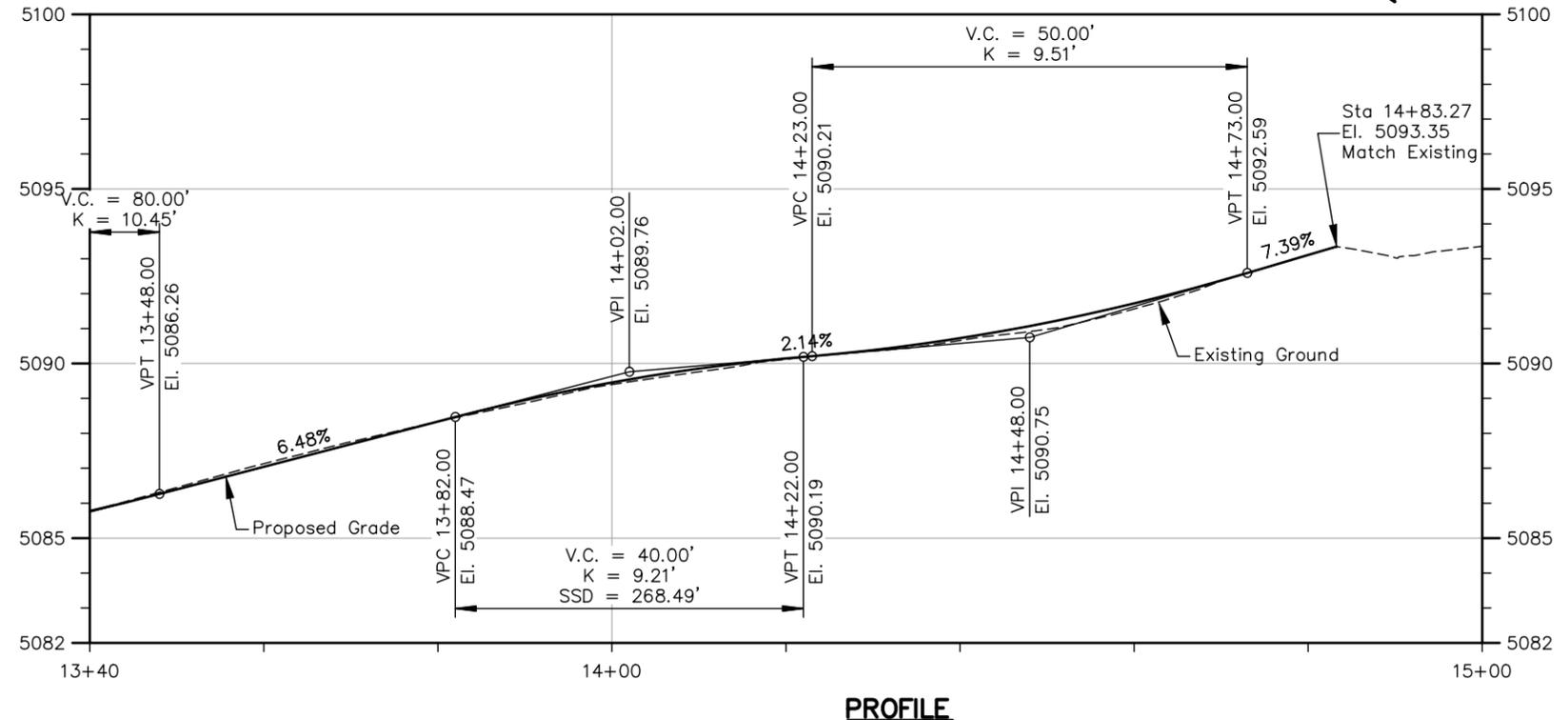
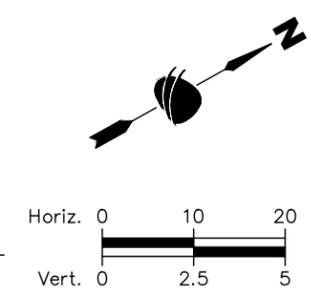
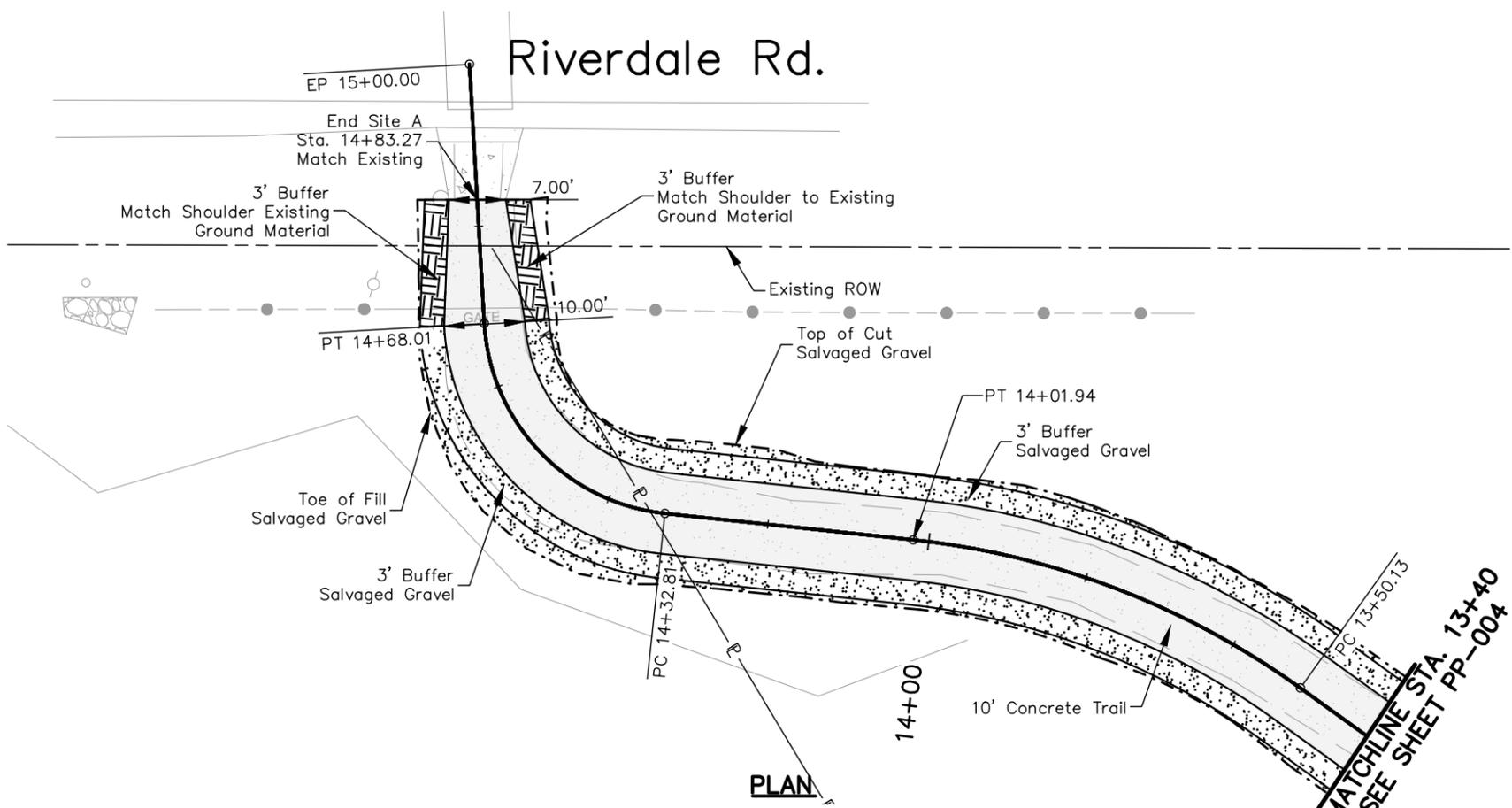
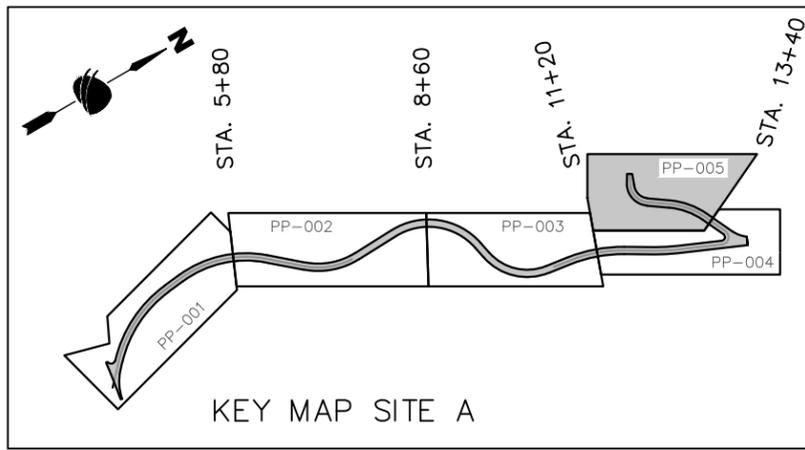
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Detailer:	C. MCNAMARA	
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Project No.
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Drawing Number PP-004
Sheet Number 23



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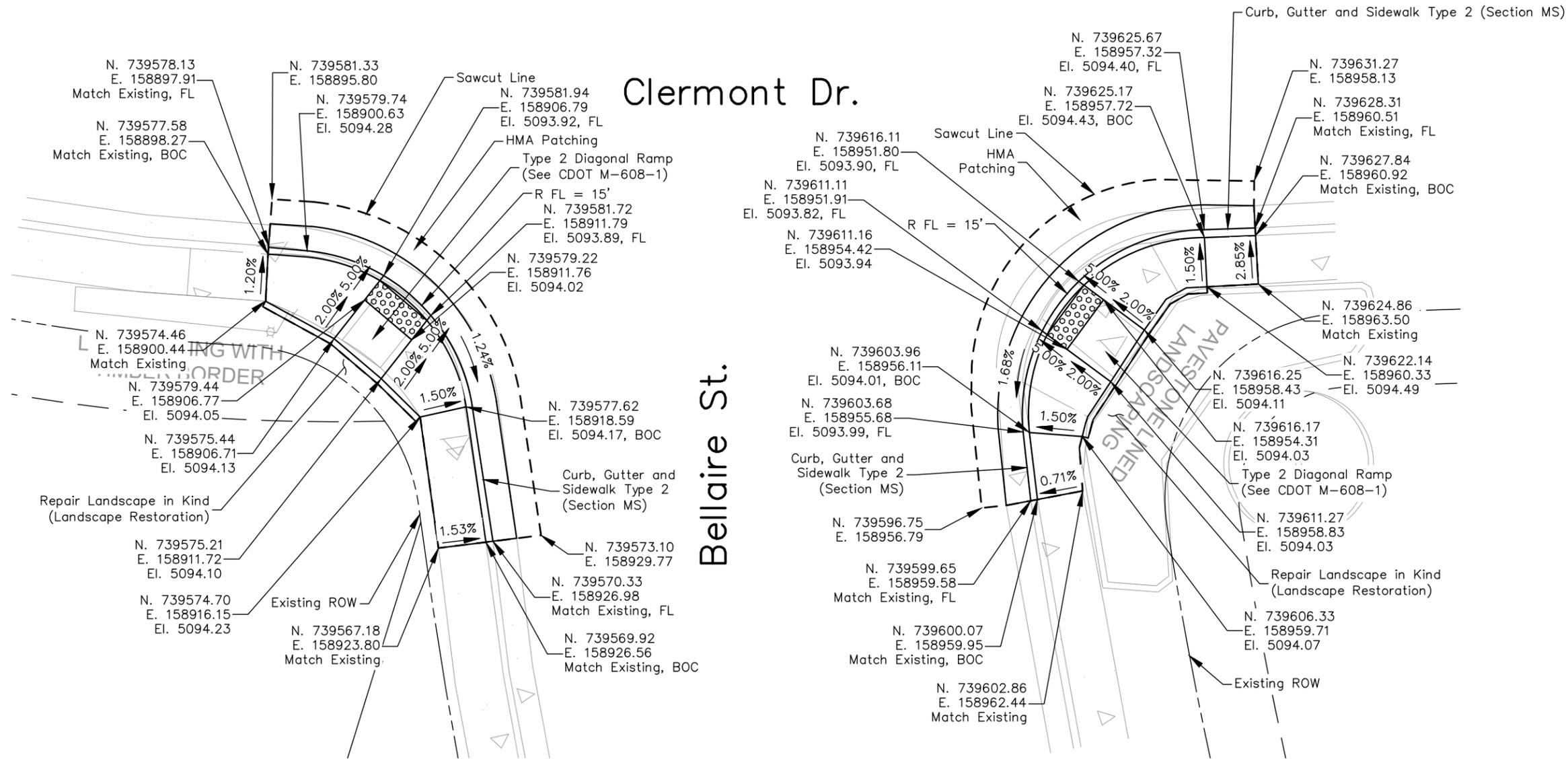
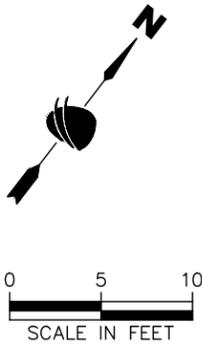
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Designer: S. SCOTT	Structure Numbers
Detailer: C. MCNAMARA	
Sheet Subset: P&P	Subset Sheets: 5 of 9

Project No.	21-674G
Drawing Number	PP-005
Sheet Number	24

Note:

- Concrete Curb Ramp or Curb, Gutter and Sidewalk Type 2 (Section MS) to be adjusted to existing joint.



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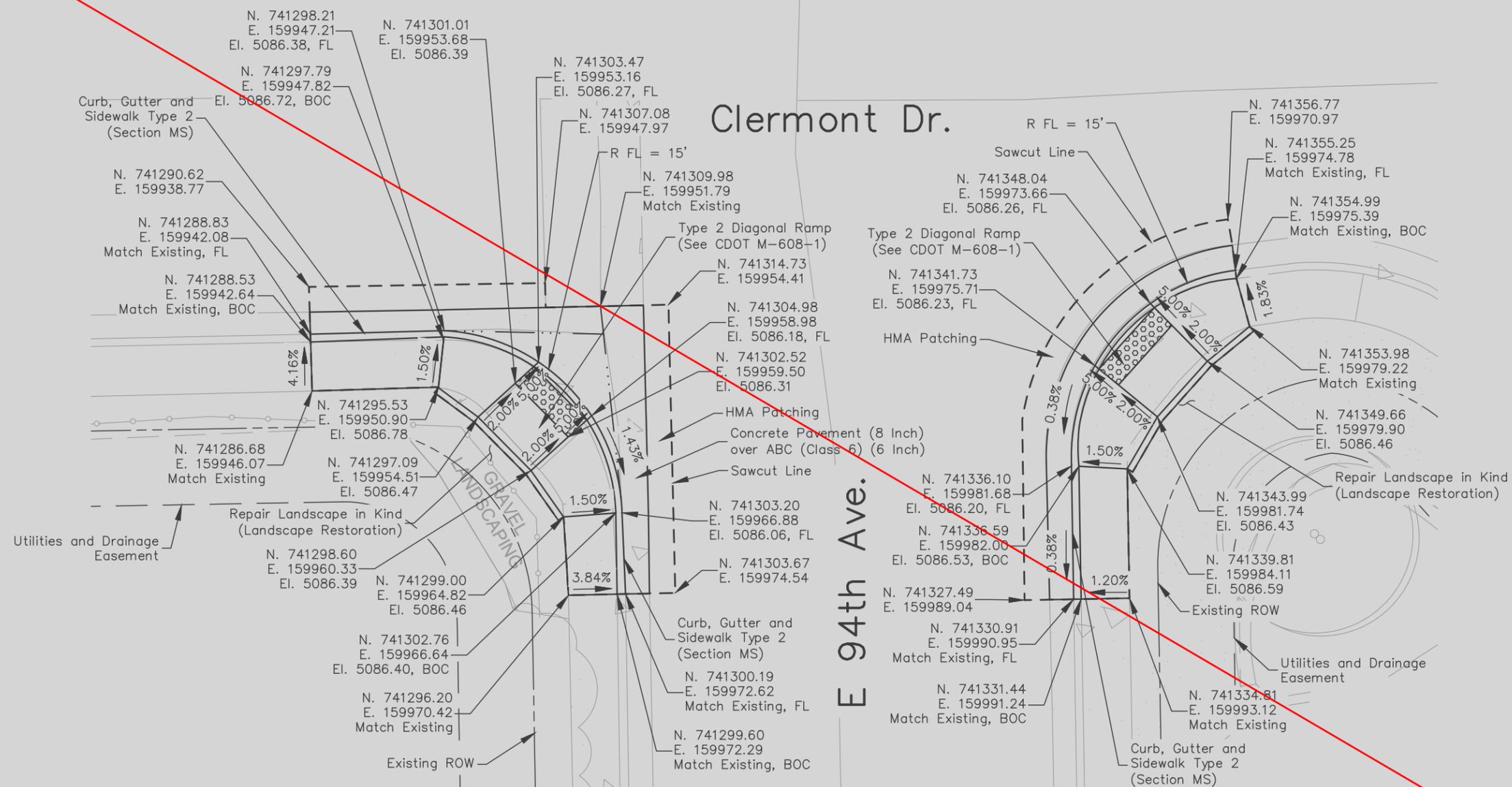
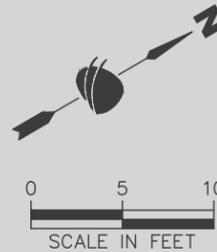
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Designer:	S. SCOTT	Structure Numbers
Detailer:	C. MCNAMARA	
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Project No.	21-674G
Drawing Number	PP-006
Sheet Number	25



Note:
 1. Concrete Curb Ramp or Curb, Gutter and Sidewalk Type 2 (Section MS) to be adjusted to existing joint.



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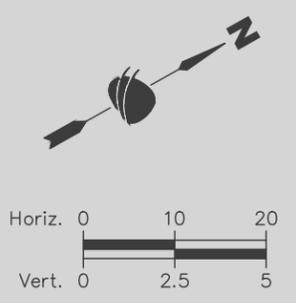
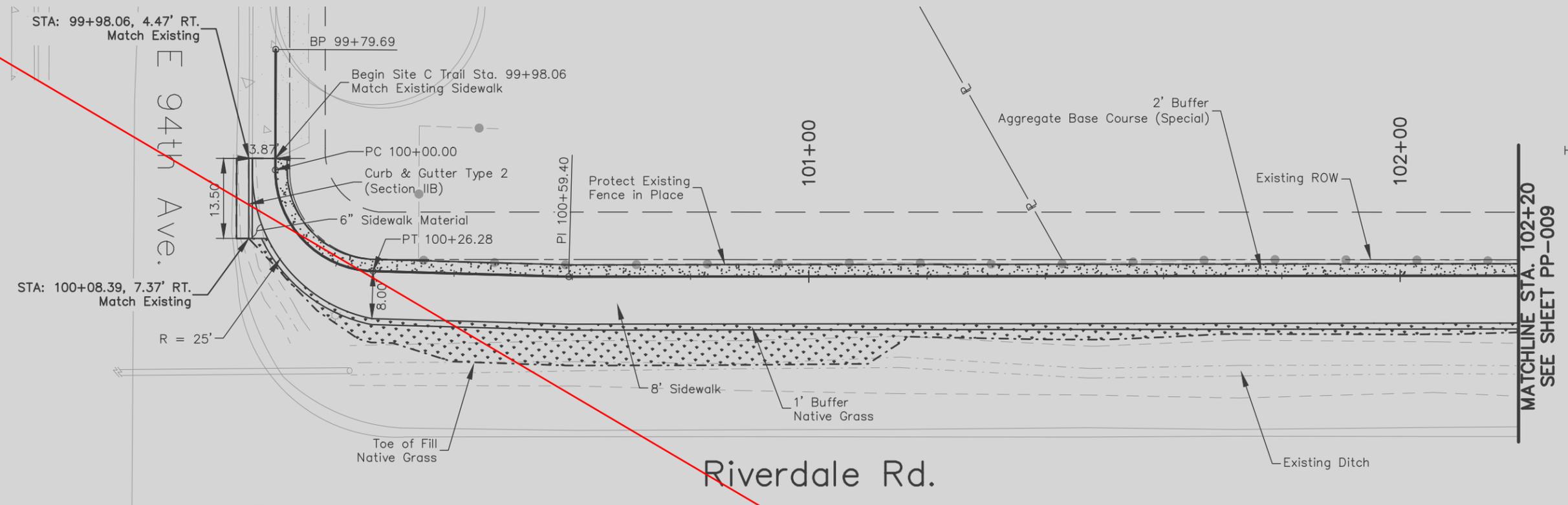


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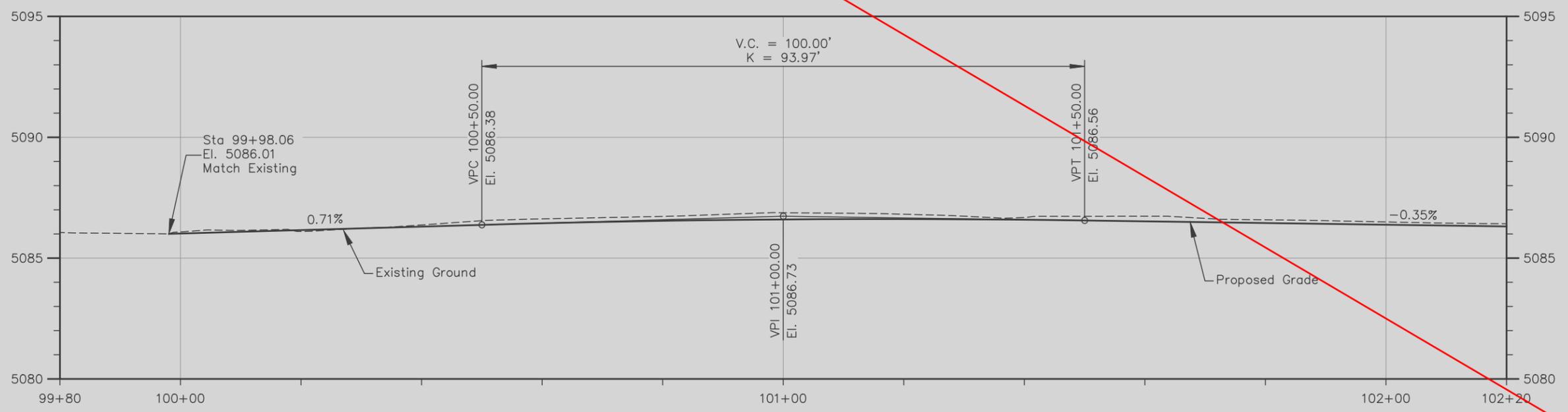
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Designer:	S. SCOTT	Structure Numbers
Detailer:	C. MCNAMARA	
Sheet Subset:	P&P	Subset Sheets: 7 of 9

Project No.	21-674G
Drawing Number	PP-007
Sheet Number	26



Riverdale Rd.

PLAN



PROFILE

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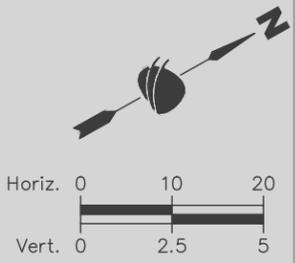
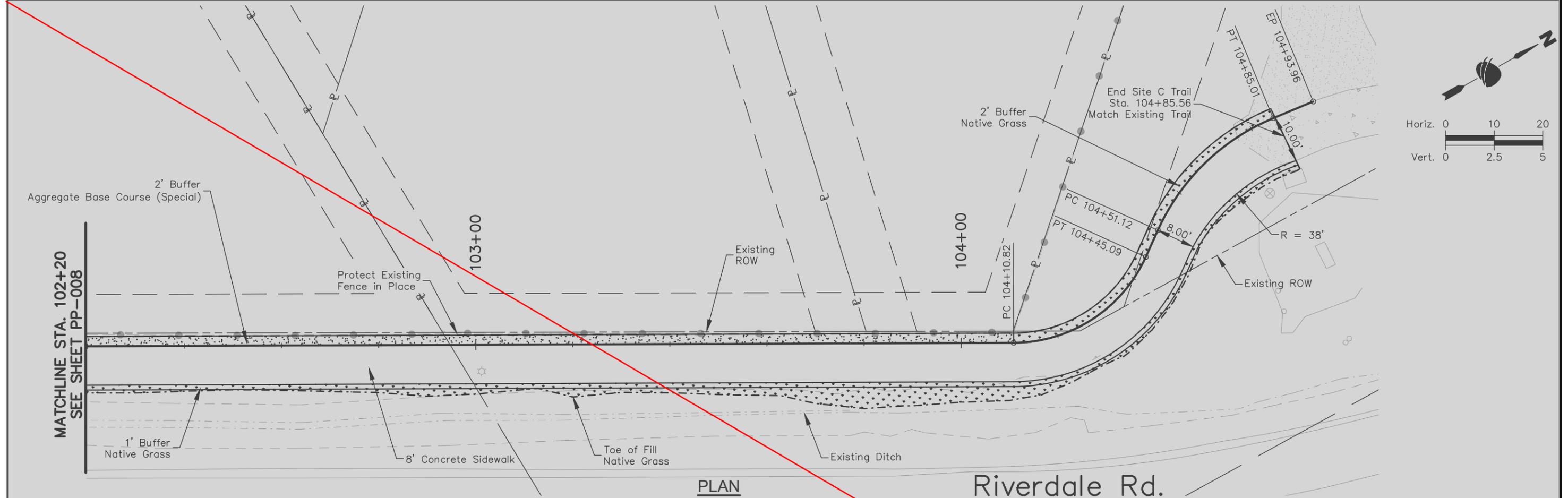
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Designer:	S. SCOTT	Structure Numbers
Detailer:	C. MCNAMARA	
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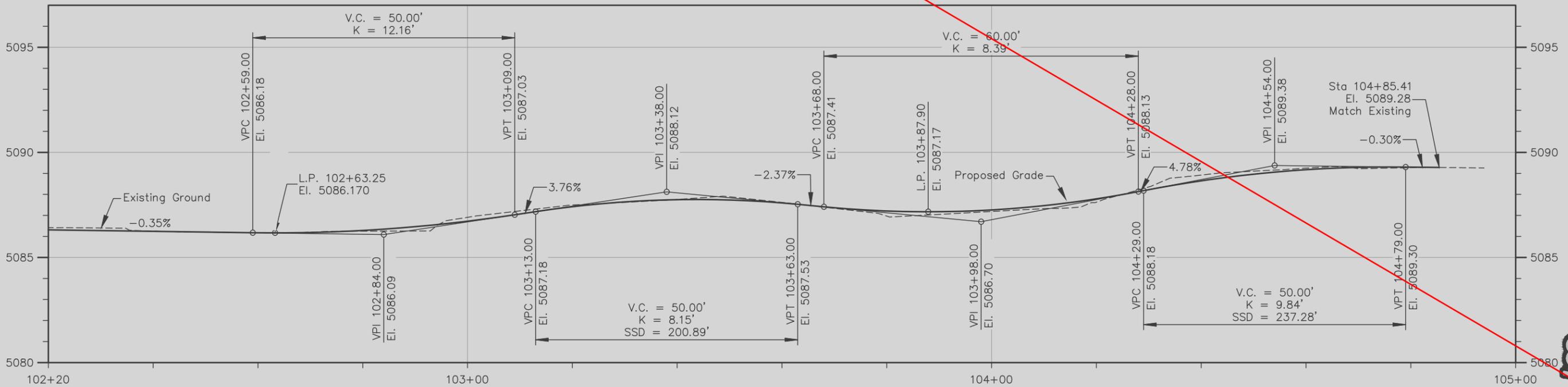


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PLAN

Riverdale Rd.



PROFILE



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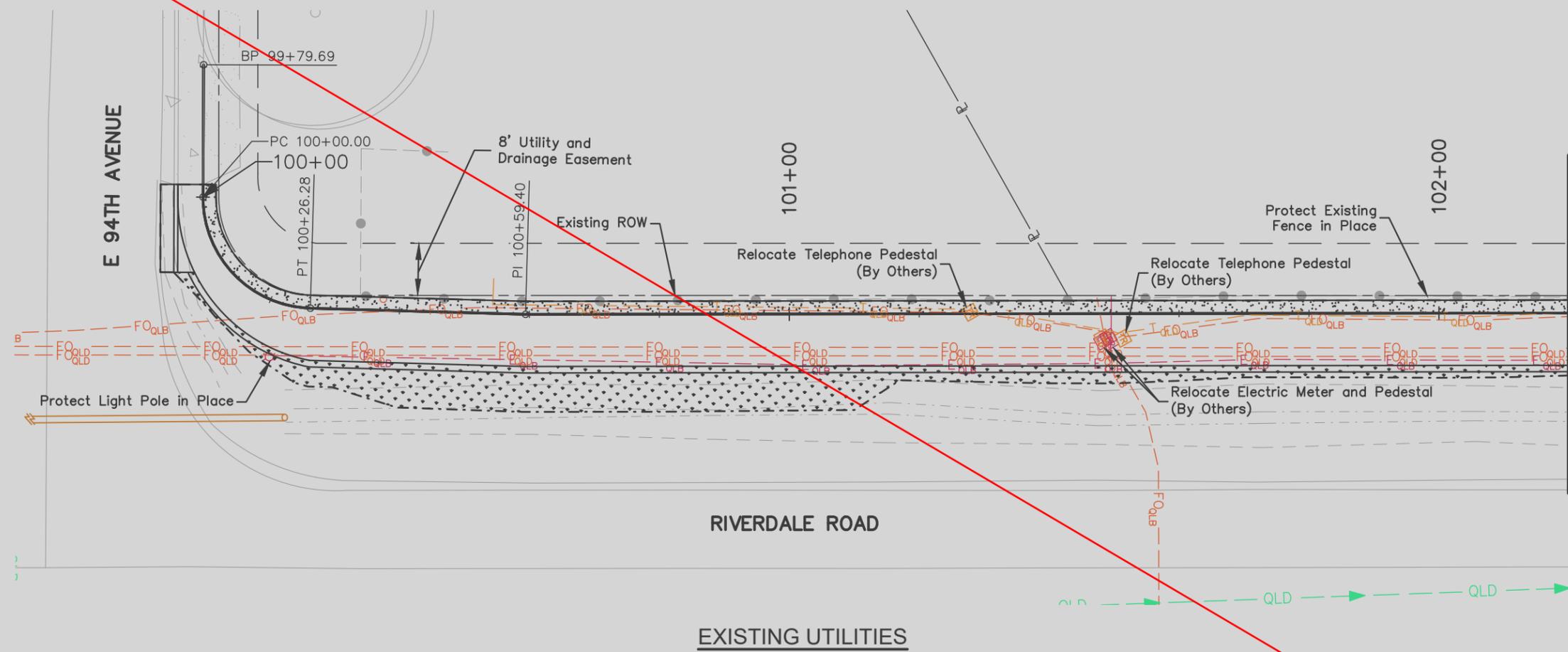
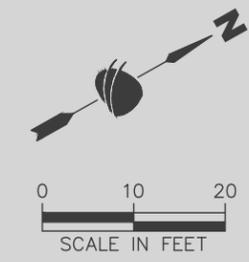
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Designer: S. SCOTT	Structure Numbers:	
Detailer: C. MCNAMARA		
Sheet Subset: P&P	Subset Sheets: 9 of 9	

Project No.	21-674G
Drawing Number	PP-009
Sheet Number	28

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MATCHLINE STA. 102+20
SEE SHEET UT-002

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 UTILITY PLANS
 SITE C**

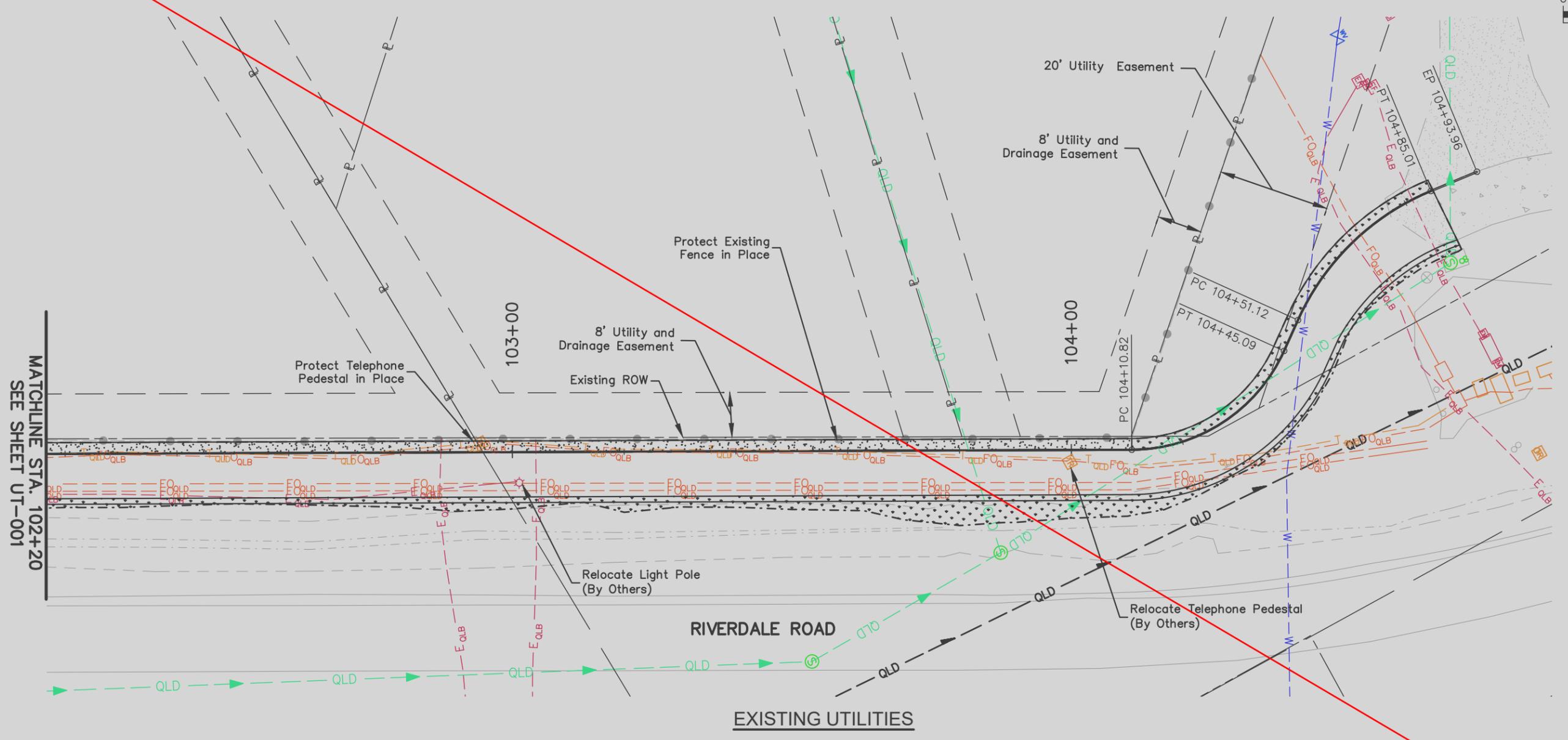
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 Detailer: C. MCNAMARA

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 Subset Sheets: 1 of 2

Project No.
21-674G
Drawing Number UT-001
Sheet Number 29



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MATCHLINE STA. 102+20
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Designer: S. SCOTT	Structure Numbers
Detailer: C. MCNAMARA	
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Project No.
21-674G
Drawing Number UT-002
Sheet Number 30

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SWMP Notes:

1. Control Measures shall be installed before any earth disturbing activities commence.
2. The Contractor shall notify the Thornton inspector once all initial control measures have been installed for an initial inspection at least forty eight (48) hours prior to the inspection. Construction activity cannot begin until a passing inspection has occurred.
3. Stormwater discharges from construction activities shall not cause, have the reasonable potential to cause, or measurably contribute to exceed any water quality standard.
4. Construction shall be phased in a manner to limit earth disturbing activities (i.e. the entire project site should not be disturbed if construction will only be occurring in one particular section).
5. Sediment caused by accelerated soil erosion shall be removed from runoff water before it leaves the construction site.
6. Bulk storage structures for petroleum products and any other chemicals shall have secondary containment or equivalent protection to contain all spills and prevent any spilled material from entering the MS4 or State waters.
7. A copy of the SWMP and Erosion and Sediment Control (ESC) Plans must be available at all times on the construction site unless otherwise approved by CDPHE or Thornton.
8. The SWMP and EC plan shall be continuously updated to reflect new or revised Control Measures (CM) due to changes in design, construction, operation, or maintenance of the construction site. Updates must be made within 72 – hours following the change in Control Measures.
9. The Contractor shall inspect the construction site (including all Control Measures, storage containers, and construction equipment) at a minimum of every 7 calendar days or every 14 calendar day. If on the 14 day frequency a 24–hour post storm inspection must be conducted after a prescription event or snow melt. Inspections shall continue until an Inactivation Notice is filed with CDPHE.
10. The Contractor shall keep a record of all inspections on site and available for review by CDPHE or City staff. Inspection reports must identify any incidents of non–compliance with the terms and conditions of the Permit.
11. Control Measures requiring maintenance or adjustment shall be repaired immediately after observation of the failing Control Measure.

12. Silt fence patching: patching is only allowed on the top half of the fence. Not more than two (2) patches per section of fence. Silt fence with holes or deterioration on the lower half of the fence must be replaced. Repair typically involves replacing the silt fence to maintain the CMs effectiveness to drain slowly and function as originally designed.
13. For all instances of noncompliance based on environmental hazards and chemical spills and releases, all needed information must be provided orally to CDPHE spill reporting line (24–hour number for environmental hazards and chemical spills and releases: 1–877–518–5608) within 24–hours from the time the Owner/Contractor becomes aware of the circumstances.
14. Straw bales shall not be used for primary erosion or sediment control (i.e. straw bales may be used for reinforcement behind another BMP such as silt fence).
15. Control measures referred to as “Cutback Curb” are not allowed. The cutback curb may become ineffective and may also compromise the integrity of the curb and in most cases does not provide any water quality benefit for filtering out sediment.
16. Inlet Protection and Vegetative Buffer Control Measures shall not be used as standalone CMs. These methods must be utilized with at least one additional CM.
17. Control Measures intended for sheet flow sediment runoff shall be placed parallel to the slope.
18. All Control Measures shall be cleaned when sediment levels accumulate to half the design of the CM unless otherwise specified.
19. A Vehicle Tracking Control (VTC) shall be placed at all entrances/exits from the site as well as any egress from exposed dirt to paved areas to prevent track–out onto streets. If track–out does occur, the Owner/Contractor shall immediately sweep the street of debris. Recycled crushed concrete or asphalt shall not be used for vehicle tracking pads.
20. All sediment collected in Control Measures shall be removed upon initial acceptance.
21. Wind Erosion and Dust Control Measures must be utilized to minimize airborne particulate dust. Control Measures may include minimizing disturbed areas, watering, and/or providing temporary stabilization.

22. Permanent erosion control measures for slopes, channels, ditches, or any disturbed land area shall be completed within 14 calendar days after final grading or the final earth disturbance has been completed. When it is not possible to permanently stabilize a disturbed area after an earth disturbance has been completed or where significant earth disturbance activity ceases, temporary soil erosion control measures shall be implemented within 14 calendar days. Temporary erosion control measures shall be maintained until permanent soil erosion measures are implemented.
23. Final stabilization has been achieved when all earth disturbing activities at the site have been completed, and uniform vegetative cover has been established with an individual plant density of at least 70 percent of pre–disturbance levels, or equivalent permanent, physical erosion reduction methods have been employed.
24. All slopes in Permanent Water Quality Features must utilize Erosion Control Blankets for Erosion Control. In Extended Detention Basins, ECB must cover top of slope to sides of trickle channels and around structures. In Bioretention such as Sand Filters and Rain Gardens, ECB must cover top of slope to edge of biomedica. Exceptions will be made for Features which will be stabilized by means other than seeding.
25. All temporary Control Measures shall be removed from the site upon submitting the Inactivation Notice.
26. All site wastes (including trash and building materials) must be properly managed to prevent potential pollution discharges to the MS4 or State waters.
27. Street repair operations such as rotor milling, slurry seal and chip seal. The minimum CMs required are; inlet protection, curb socks and street sweeping.
28. Control measures depicted on these plans constitute a proof of concept for preventing erosion and sediment discharge. Actual quantities may vary based on contractor’s means and methods.

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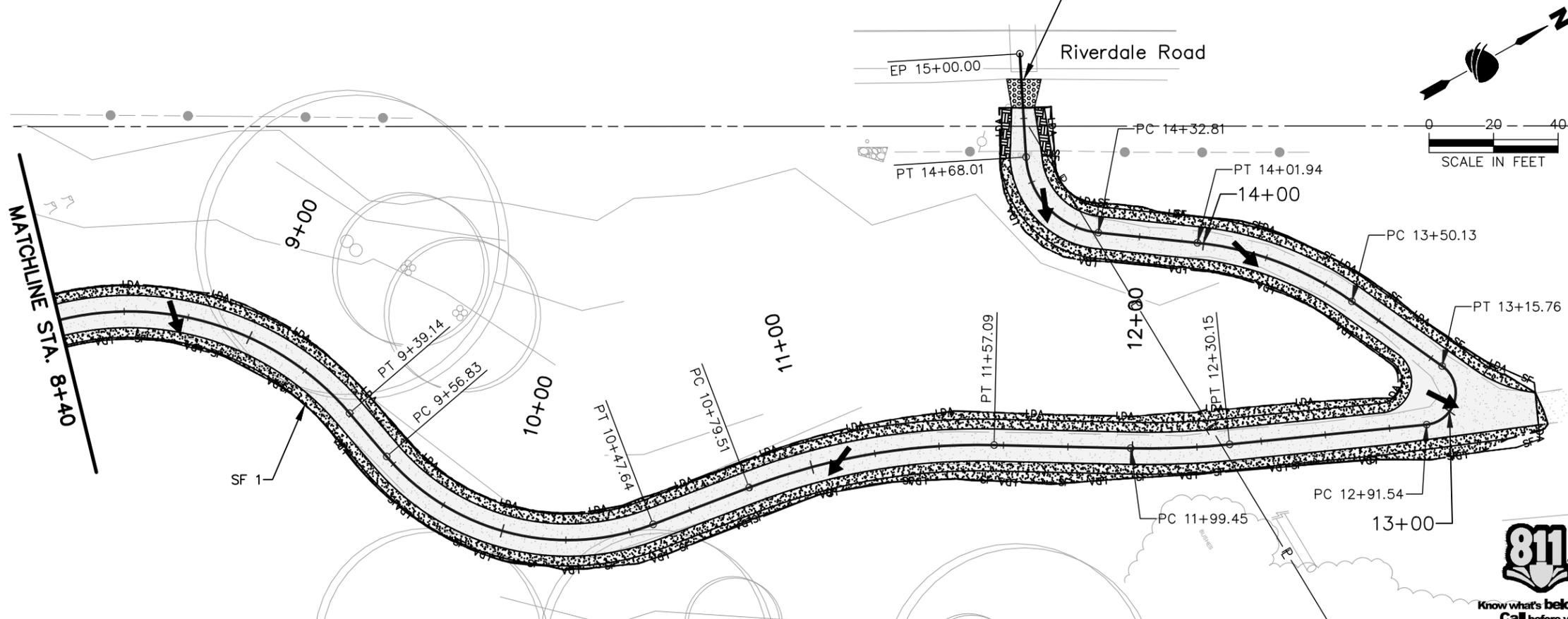
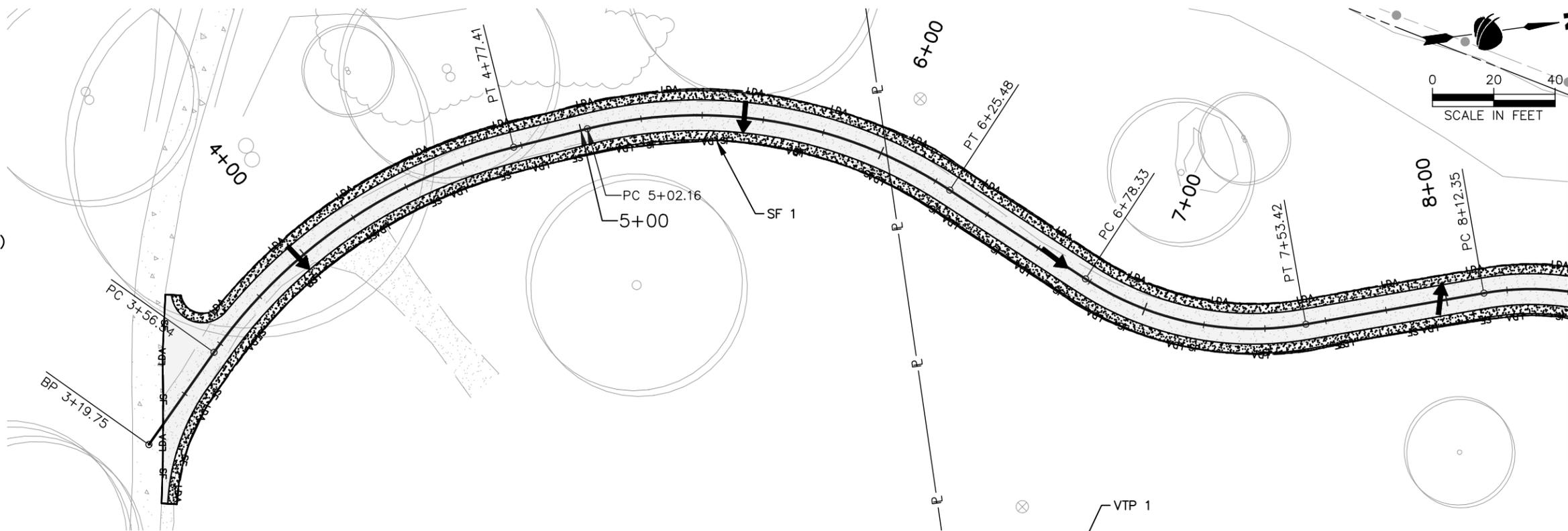
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					Sheet Subset: ENVI	Subset Sheets: 1 of 3				

INITIAL SWMP LEGEND:

SYMBOL	DESCRIPTION (PROPOSED QUANTITY)
11+00	ROADWAY STATIONING
-LDA-	LIMITS OF DISTURBANCE
-LOC-	LIMITS OF CONSTRUCTION
→	FLOW ARROW (DIRECTION OF FLOW)
▬	EROSION LOG/PIPES
▬	EROSION LOG (TYPE I)(12 INCH)
---	TOE OF FILL
---	TOP OF CUT
▨	SEEDING
-SF-	SILT FENCE
▨	AGGREGATE BASE COURSE (SPECIAL)
▨	Vehicle Tracking Pad (VTP)
1	INITIAL
2	INTERIM
3	FINAL



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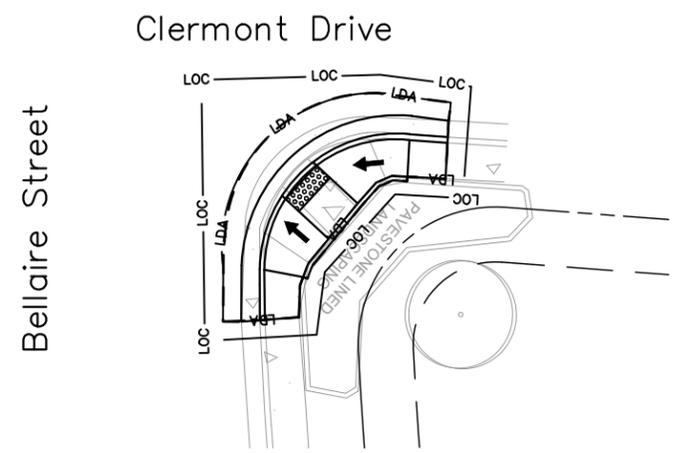
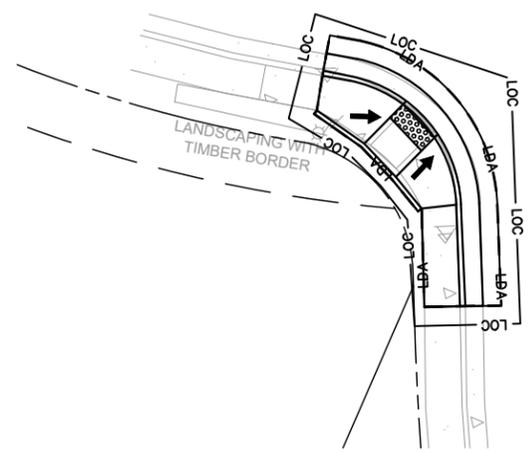
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Detailer: C. MCNAMARA		

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Drawing Number	ENVI-002
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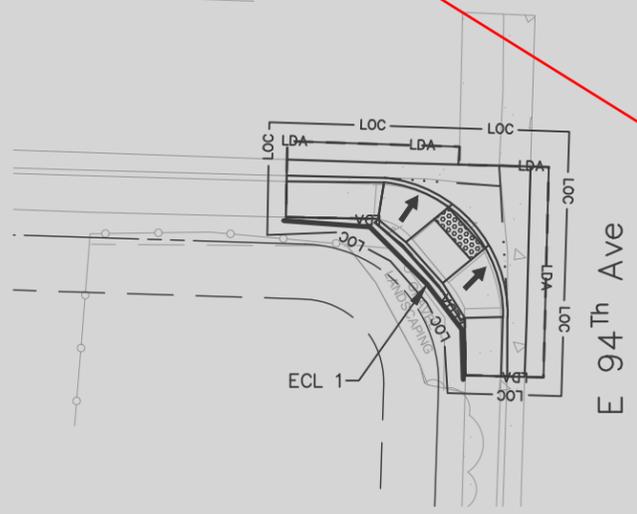


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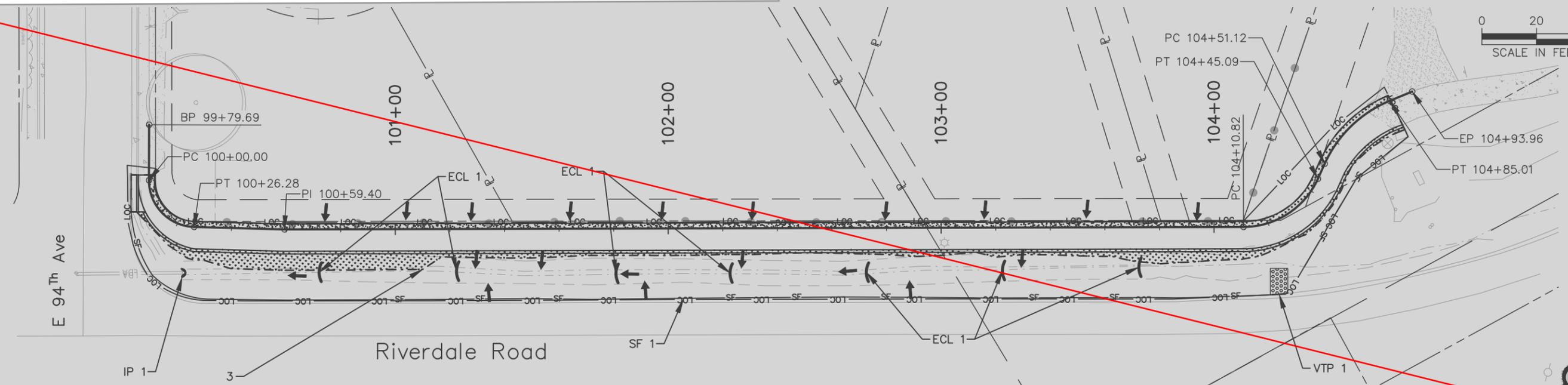


SITE B

Note: Storm Drain Inlet Protection (Type 1) to be used at two inlets at Bellaire St and Riverdale Rd Intersection



SITE D



SITE C

*Site C seeding quantity includes area inside LOC
 *For information only

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**RIVERDALE TRAIL CONNECTION
 STORMWATER MANAGEMENT PLAN
 SITE B, C, & D**

Designer: L. GENTILE
 Detailer: C. MCNAMARA

Sheet Subset: ENVI
 Subset Sheets: 3 of 3

Project No.	21-674G
Drawing Number	ENVI-003
Sheet Number	33



TRAIL DETOUR LEGEND:

- | SYMBOL | DESCRIPTION |
|--------|---|
| | TRAIL DETOUR |
| | TRAIL CLOSED |
| | STAGING AREA |
| | SITE A CONSTRUCTION LIMITS |
| ① | TRAIL DETOUR SIGN (RIGHT)
M4-9aR |
| ② | TRAIL DETOUR SIGN (LEFT)
M4-9aL |
| ③ | TYPE 3-MA BARRICADE (TRAIL CLOSED SIGN) |
| ④ | CONSTRUCTION ACCESS |



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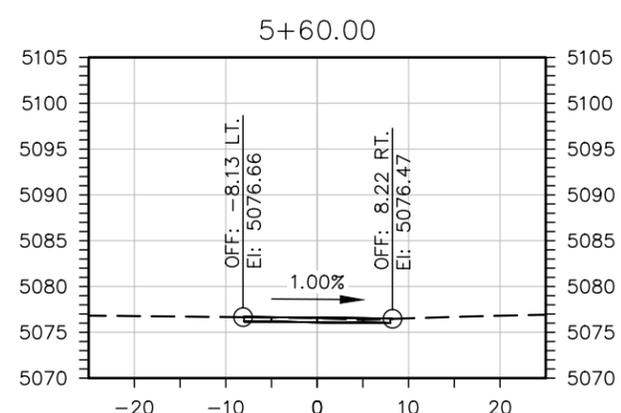
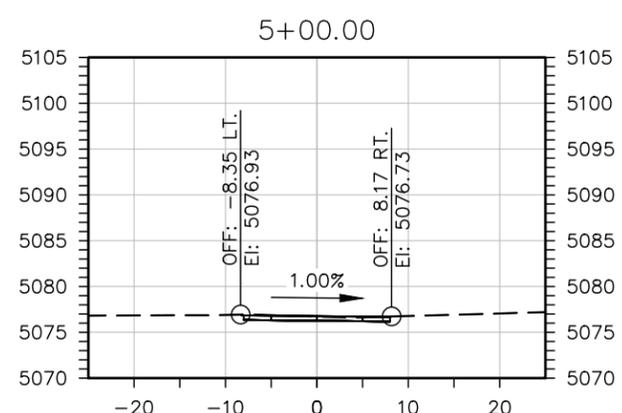
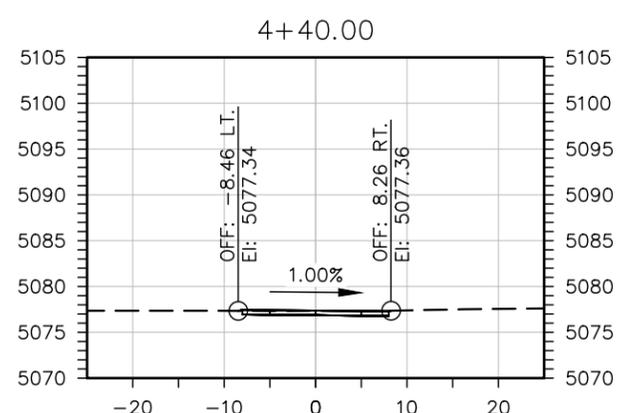
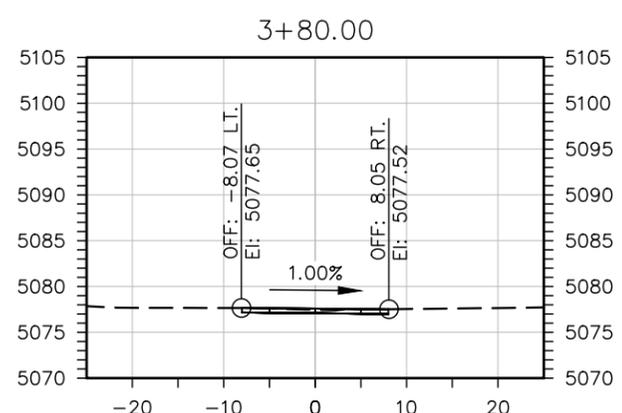
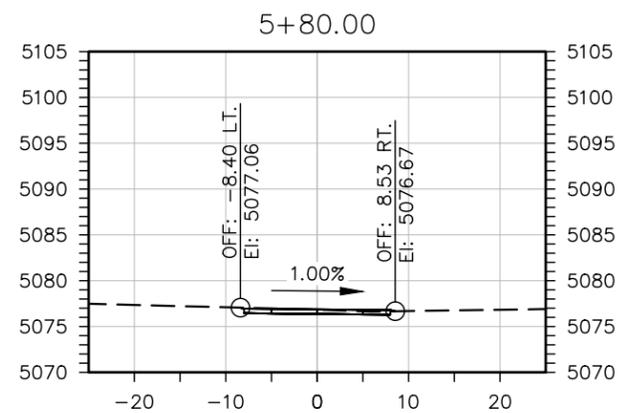
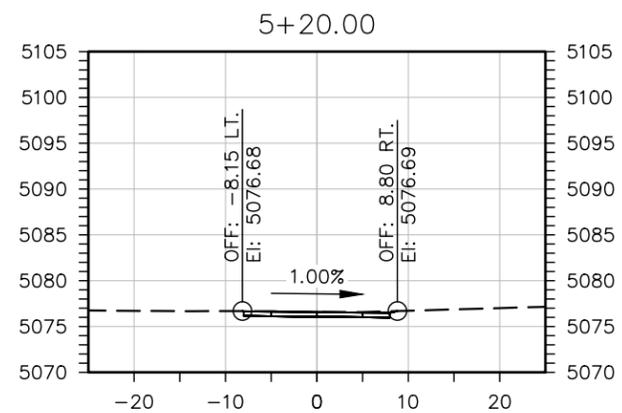
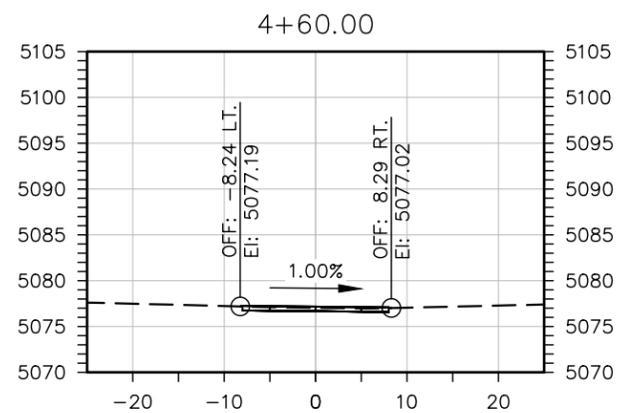
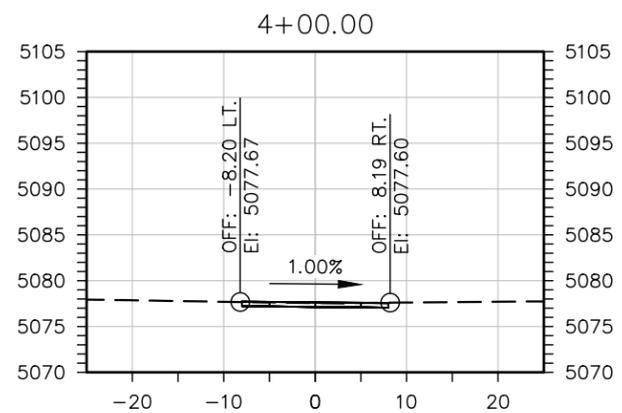
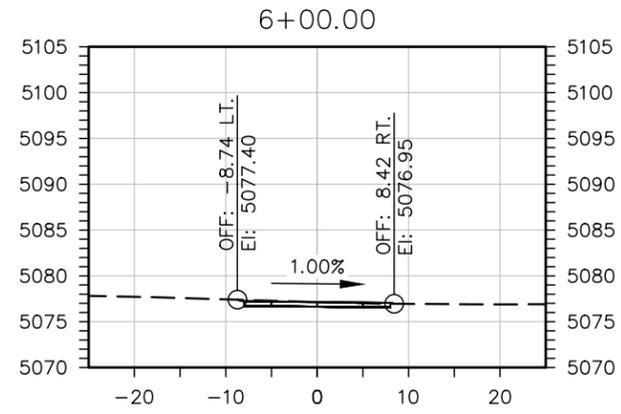
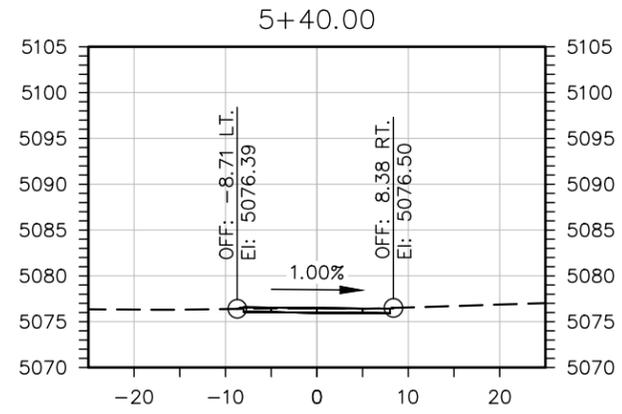
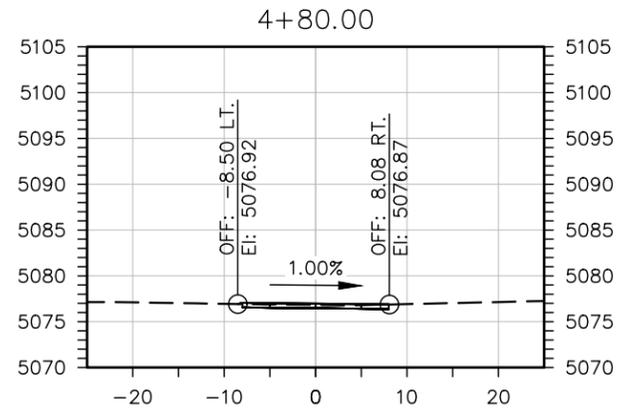
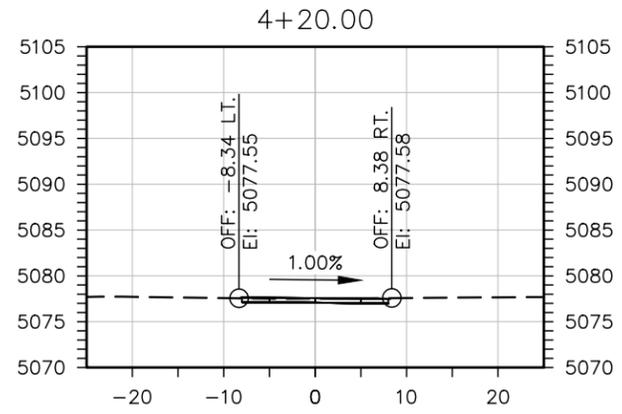
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Detailer: C. MCNAMARA		
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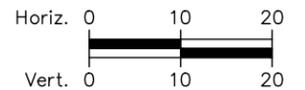
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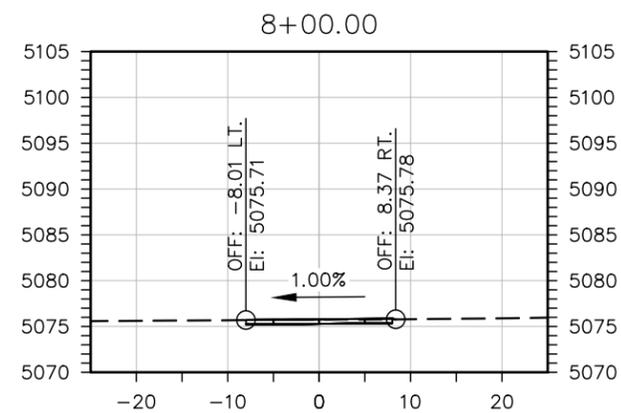
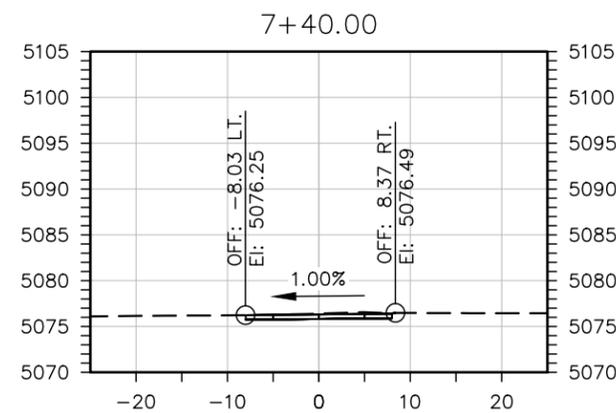
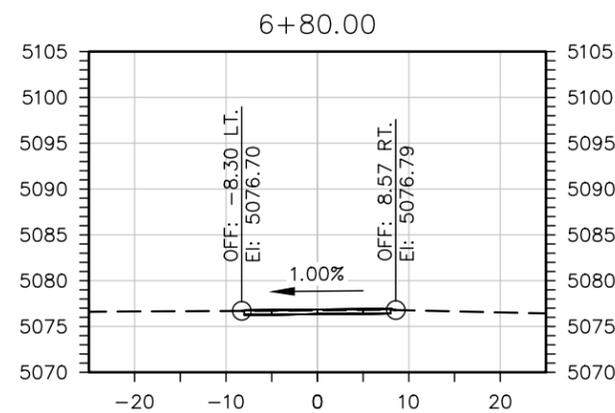
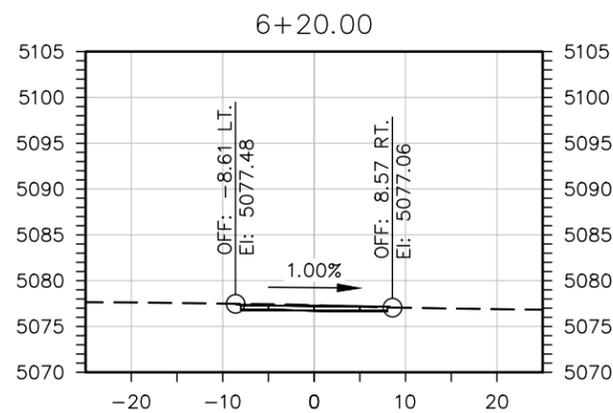
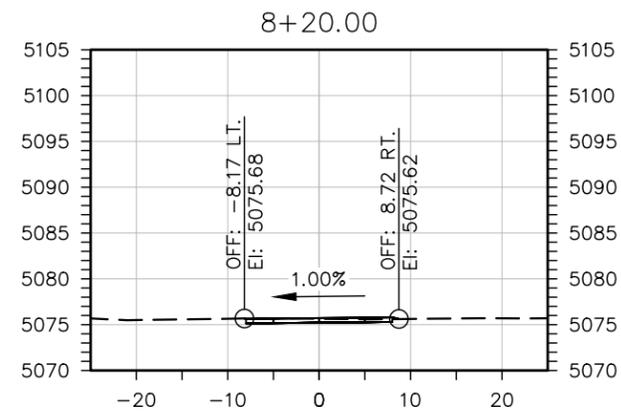
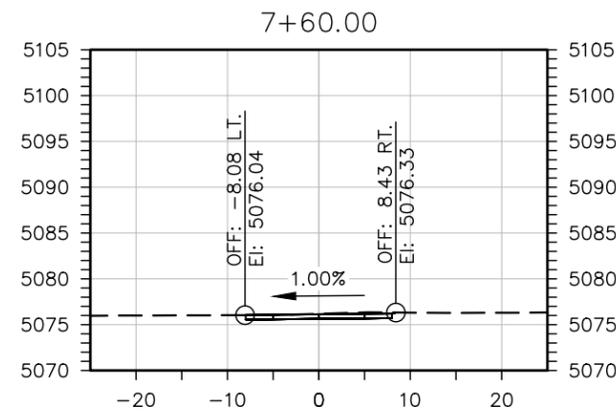
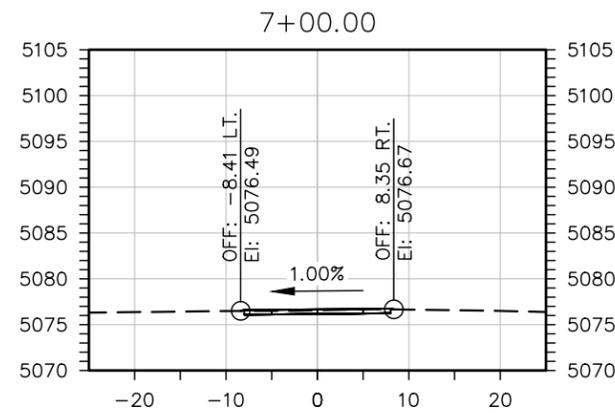
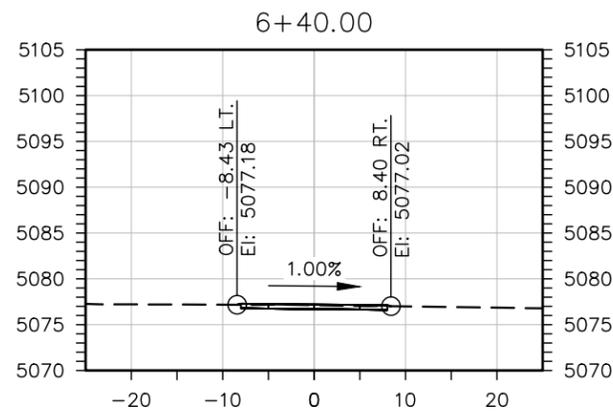
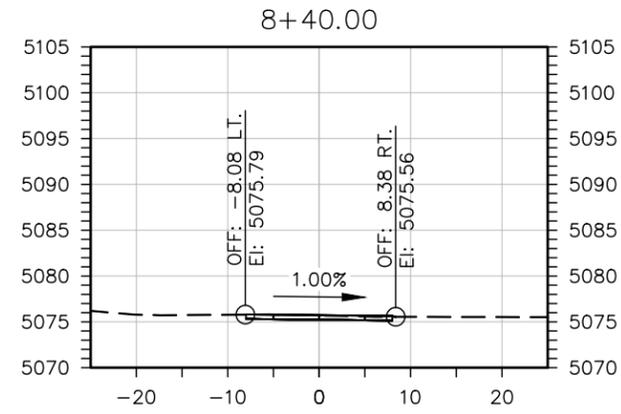
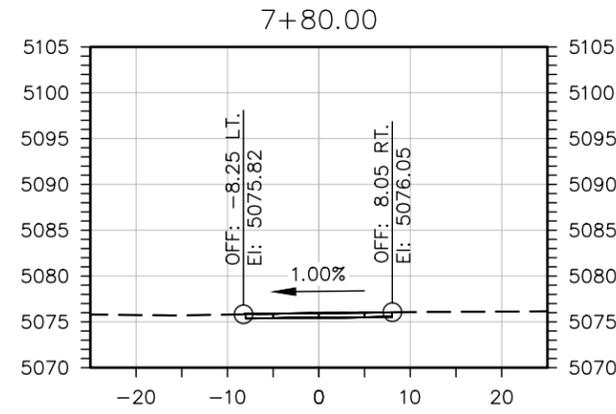
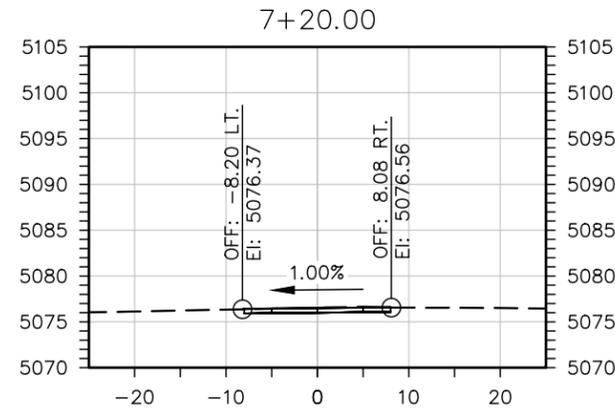
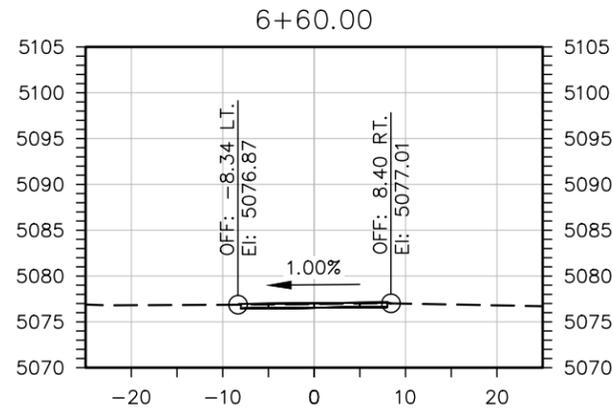
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**RIVERDALE TRAIL CONNECTION
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 Designer: S. SCOTT
 Detailer: C. MCNAMARA
 Sheet Subset: X SECTIONS
 Structure Numbers:
 Subset Sheets: 1 of 7

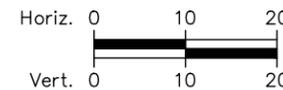
Project No.
 21-674G
 Drawing Number XS-001
 Sheet Number **35**

2/27/2024

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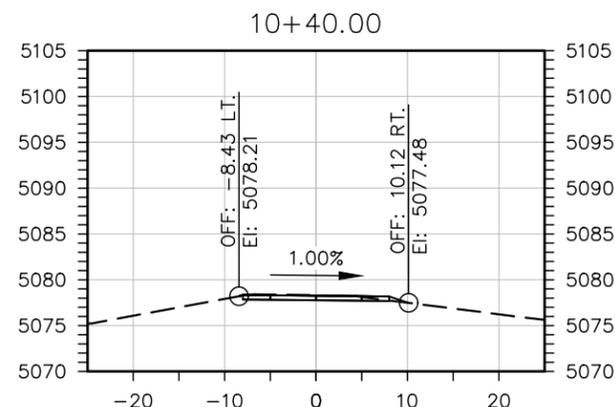
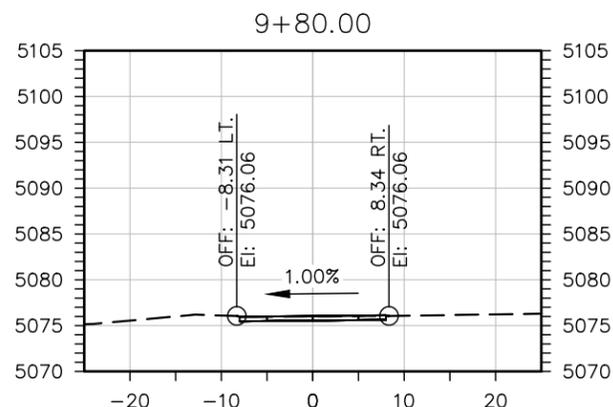
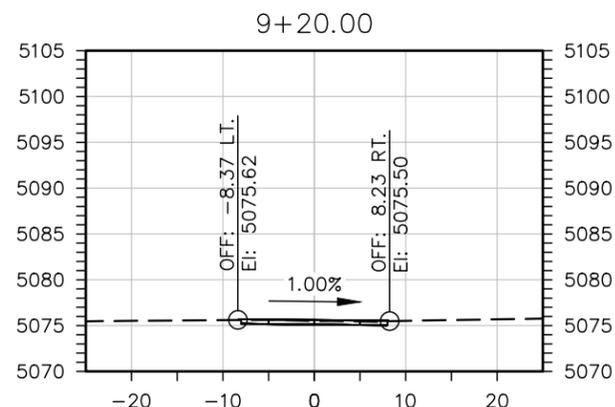
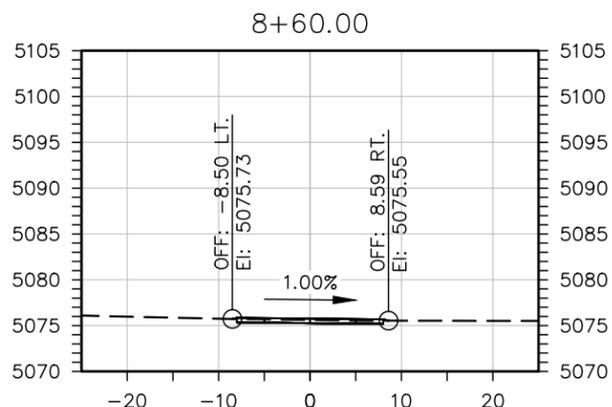
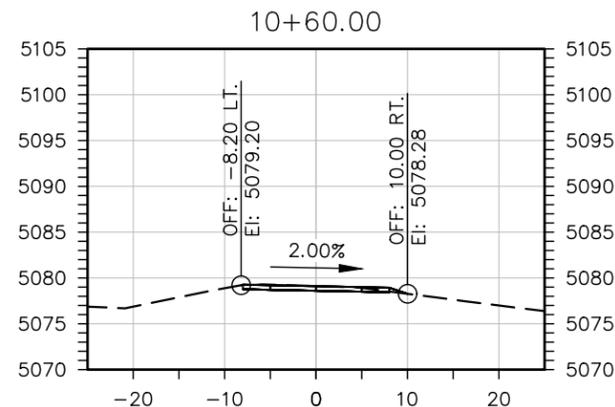
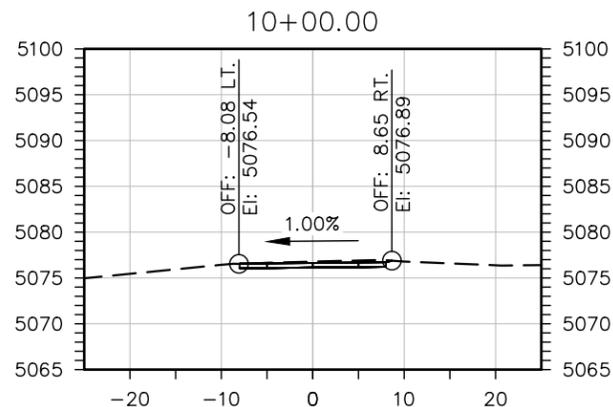
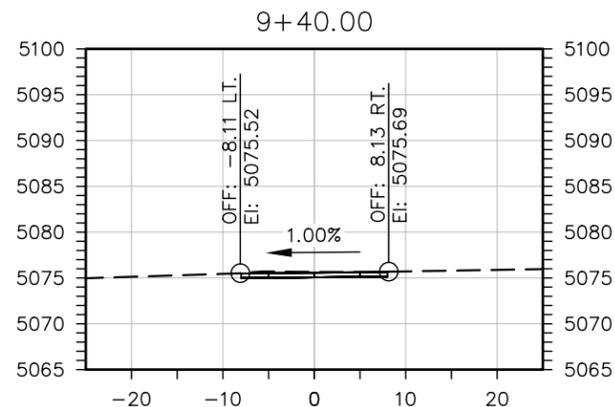
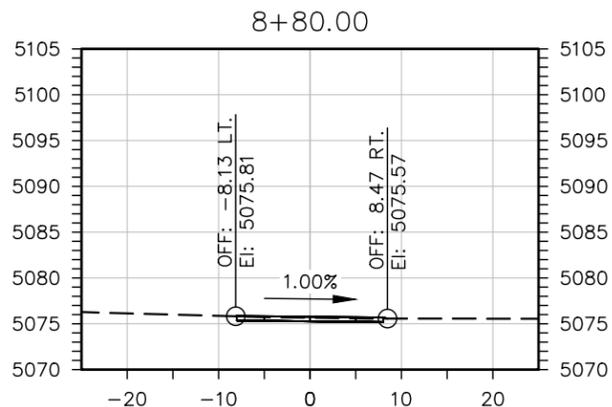
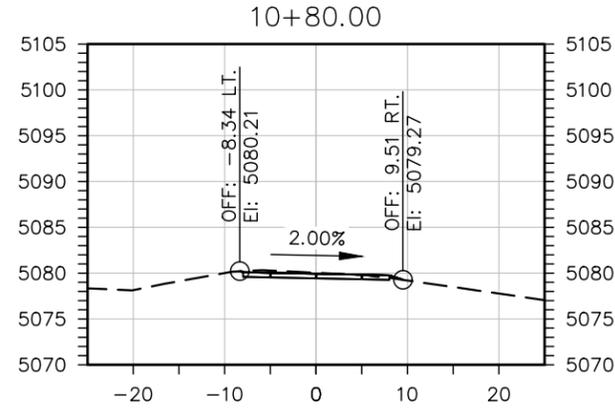
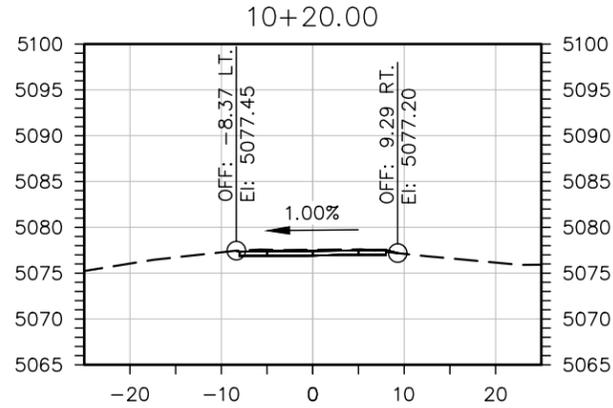
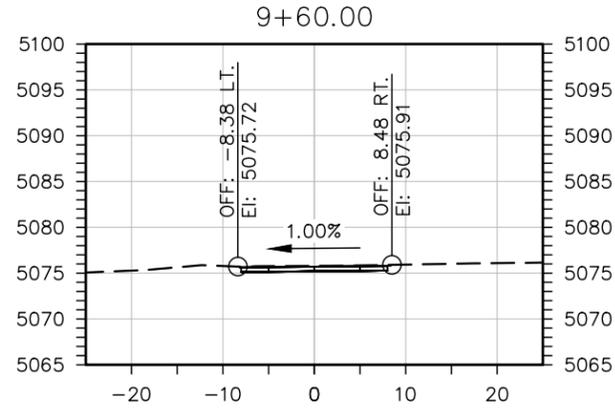
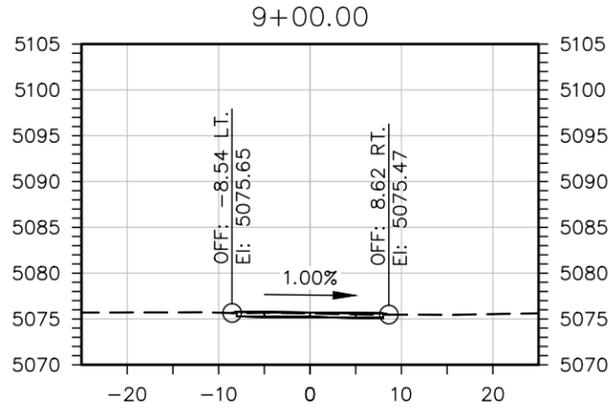
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**RIVERDALE TRAIL CONNECTION
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 Designer: S. SCOTT
 Detailer: C. MCNAMARA
 Sheet Subset: X SECTIONS
 Structure Numbers:
 Subset Sheets: 2 of 7

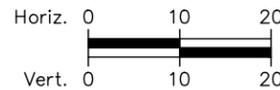
Project No.
 21-674G
 Drawing Number XS-002
 Sheet Number **36**

2/27/2024

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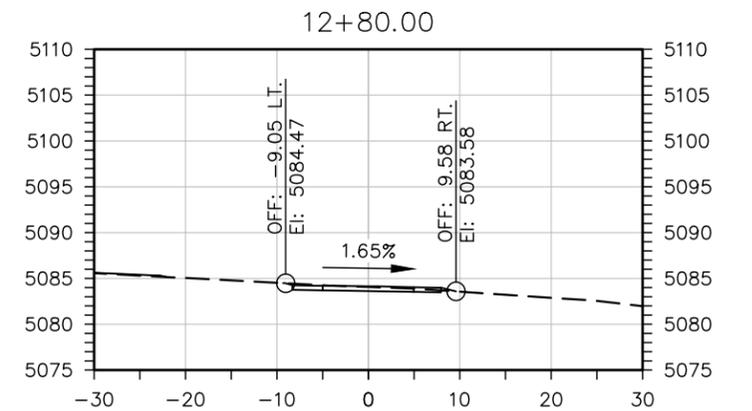
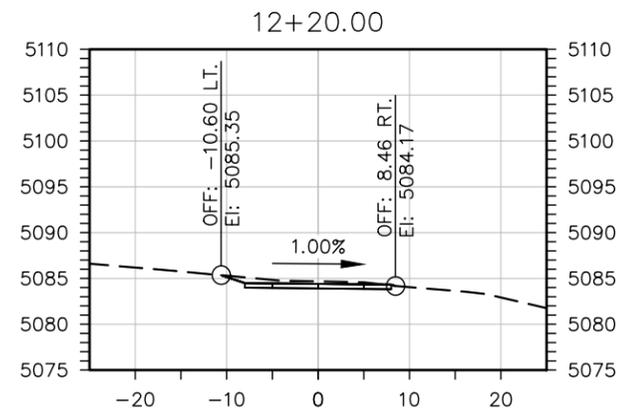
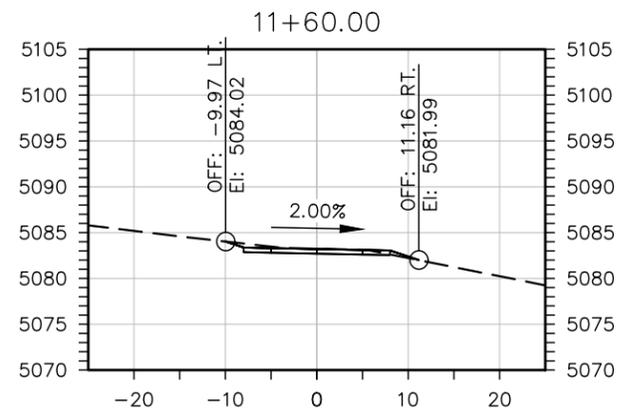
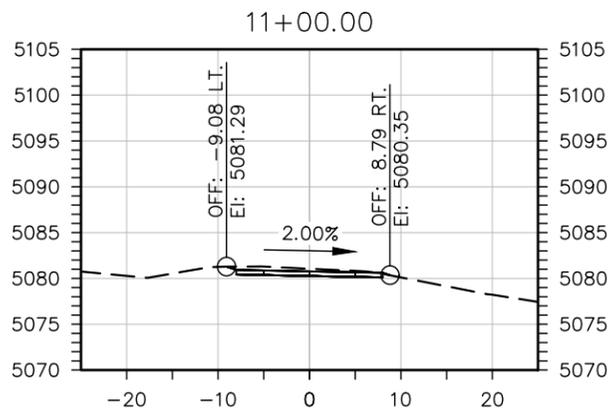
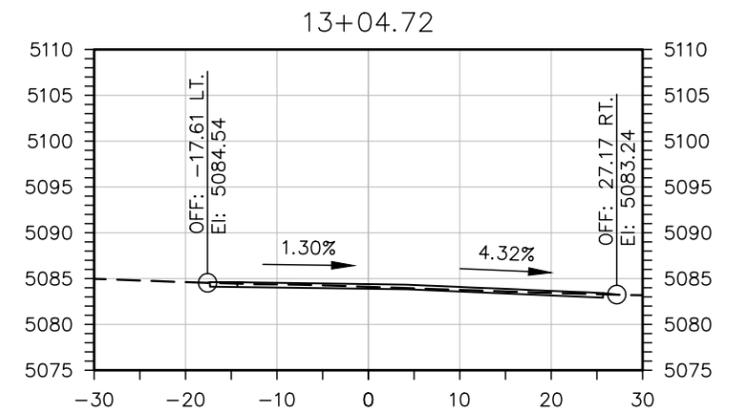
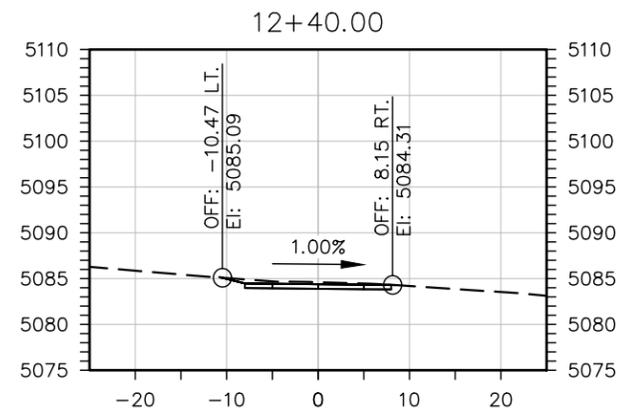
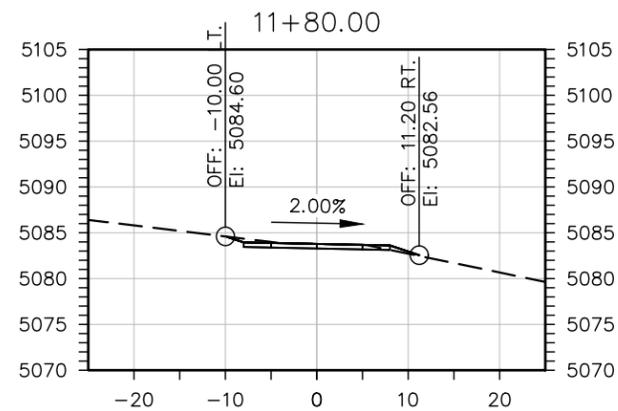
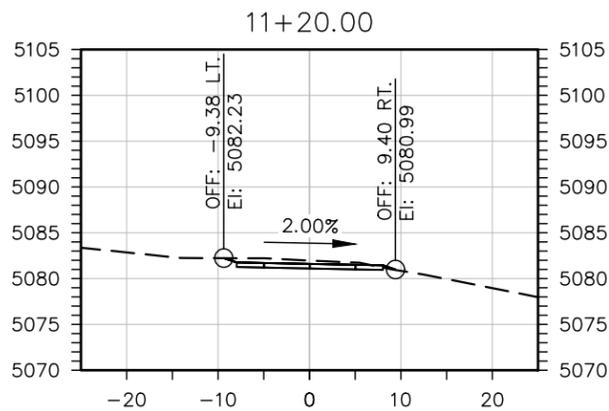
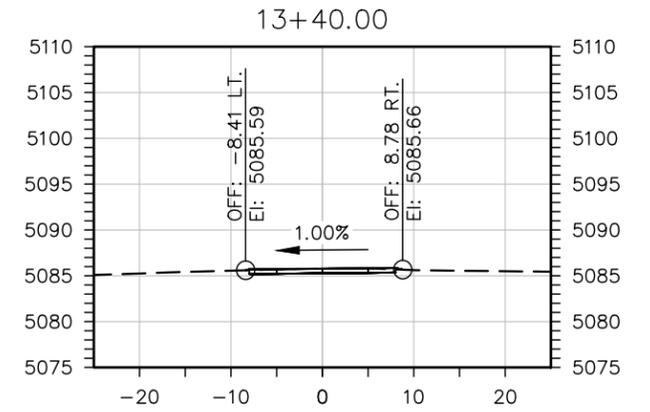
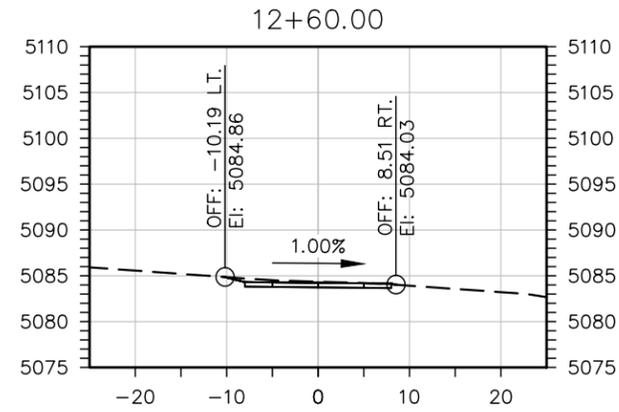
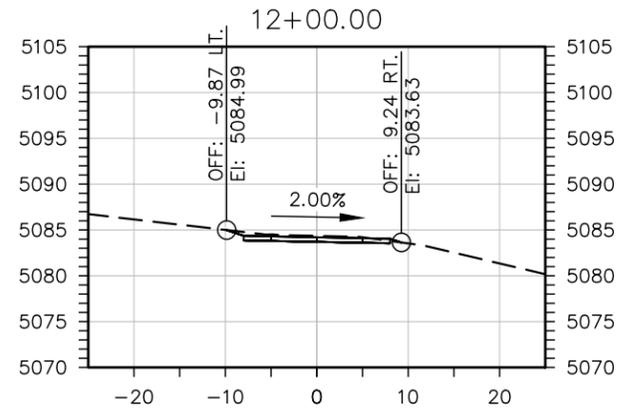
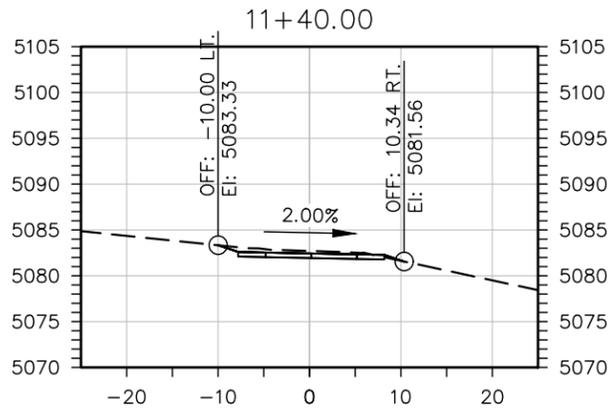
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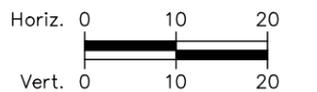
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 CROSS SECTIONS - SITE A**
 Designer: S. SCOTT
 Detailer: C. MCNAMARA
 Sheet Subset: X SECTIONS
 Structure Numbers
 Subset Sheets: 3 of 7

Project No.
 21-674G
 Drawing Number XS-003
 Sheet Number **37**

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**RIVERDALE TRAIL CONNECTION
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Designer: S. SCOTT
 Detailer: C. MCNAMARA
 Sheet Subset: X SECTIONS

Structure Numbers:
 Subset Sheets: 4 of 7

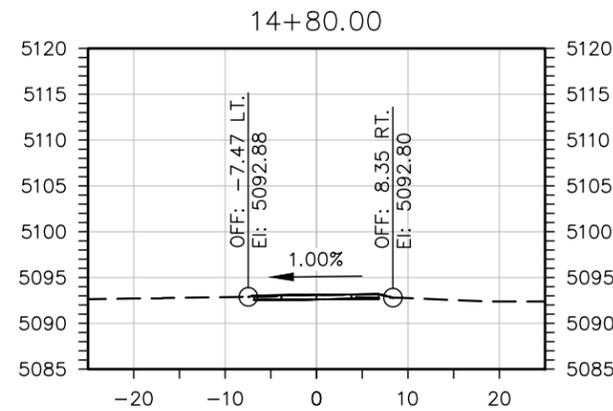
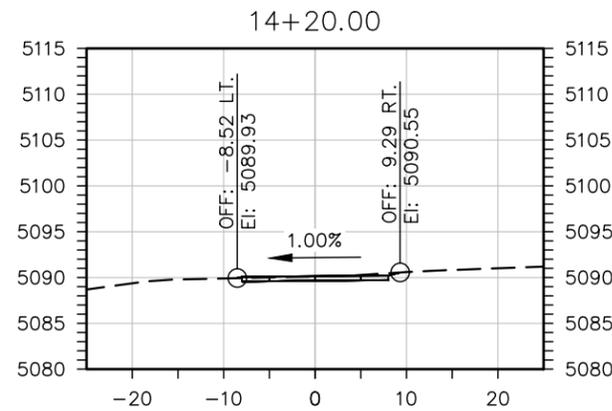
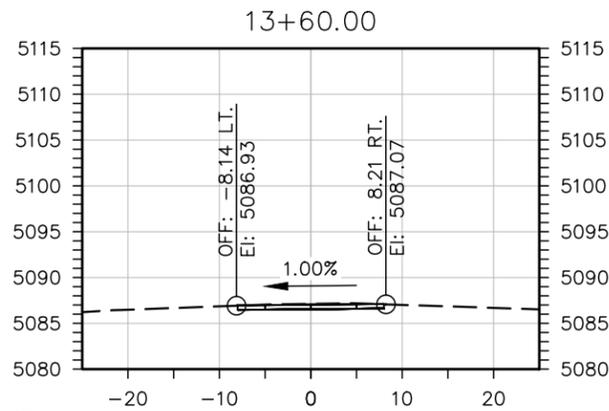
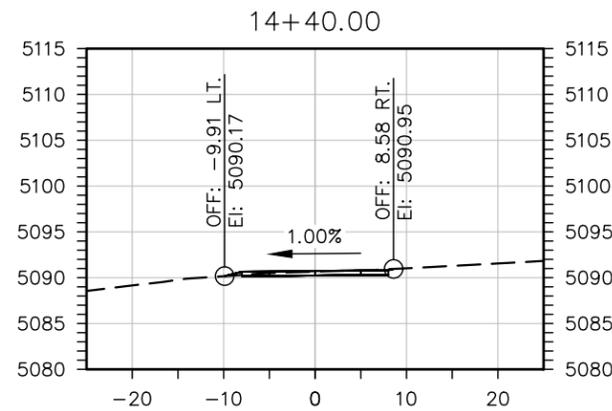
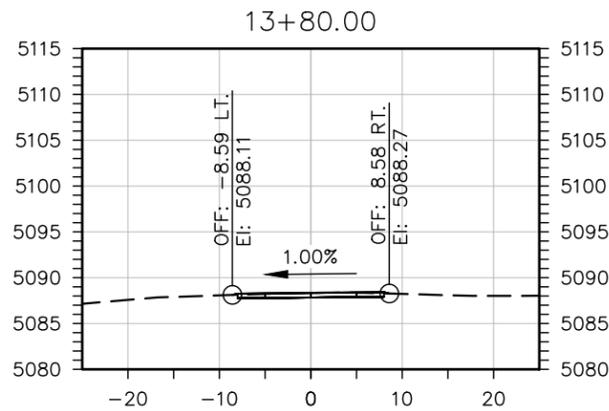
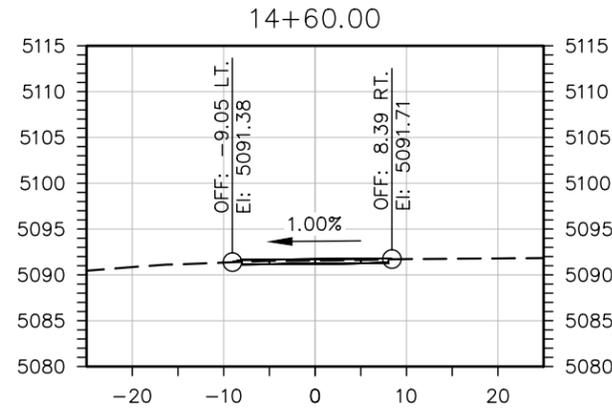
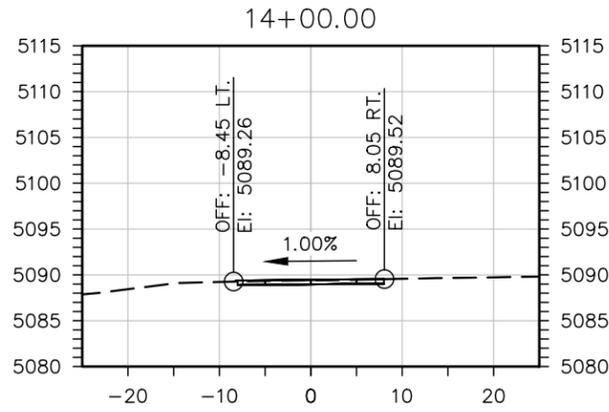
Project No.
 21-674G

Drawing Number XS-004
 Sheet Number **38**

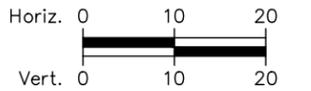
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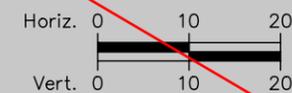
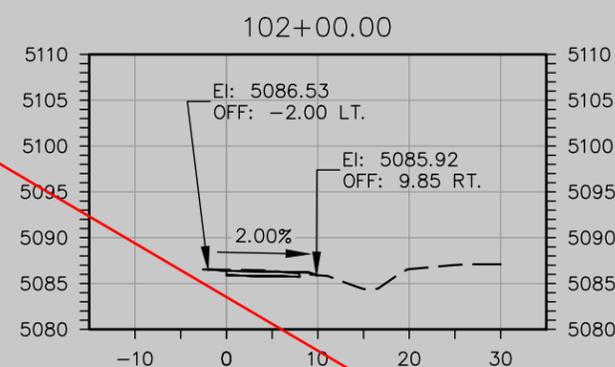
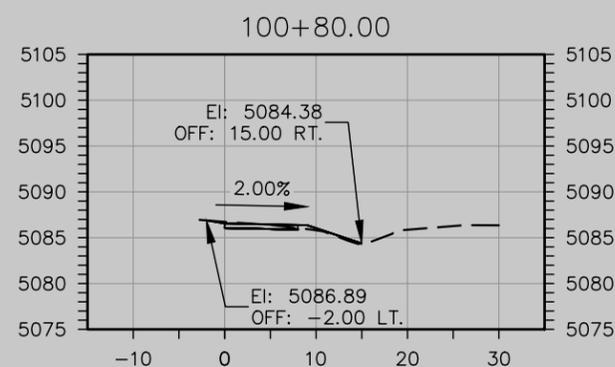
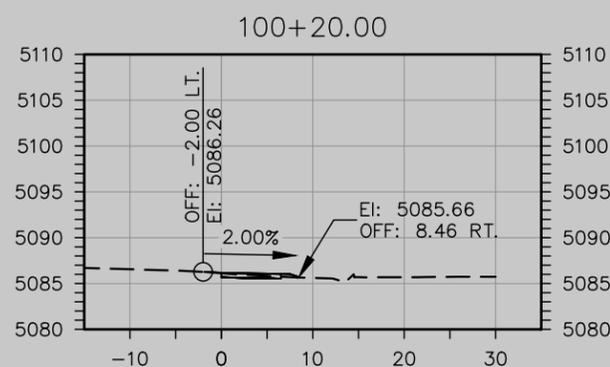
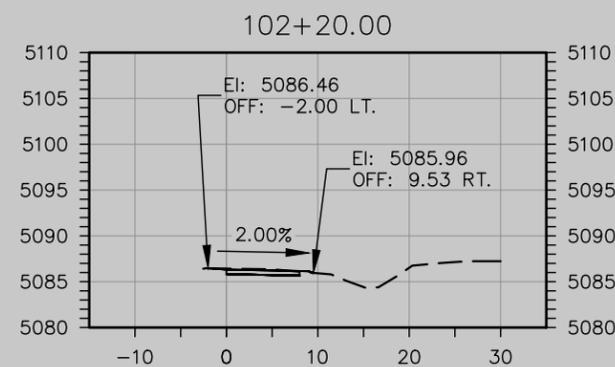
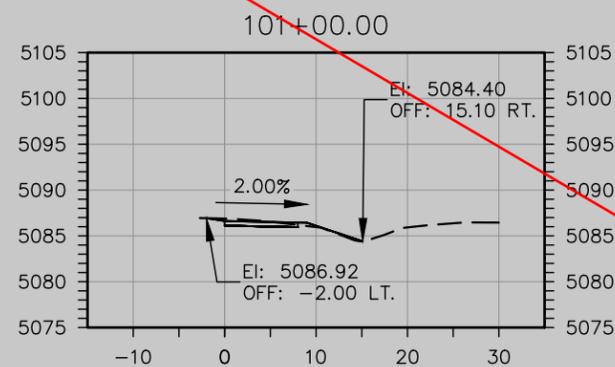
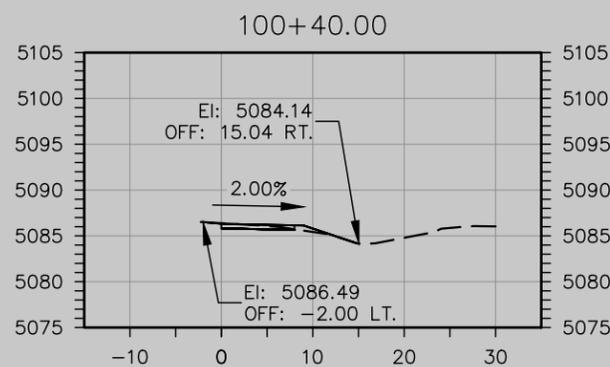
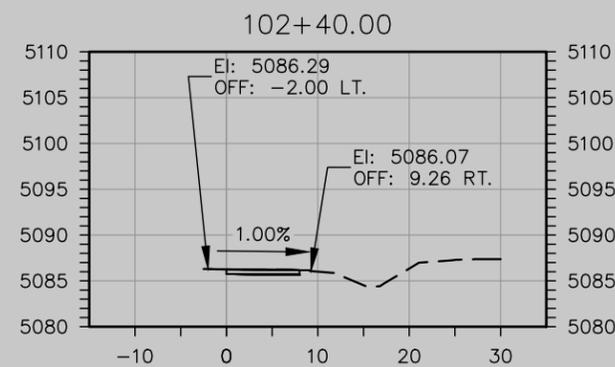
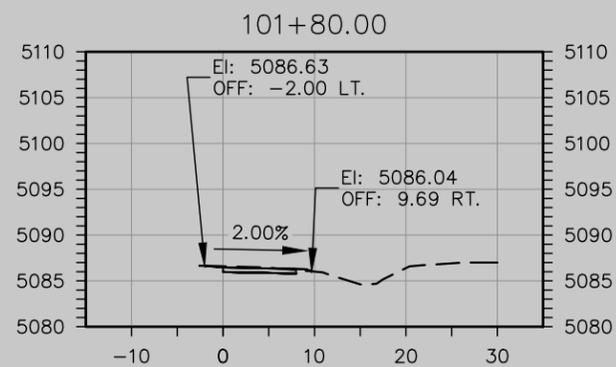
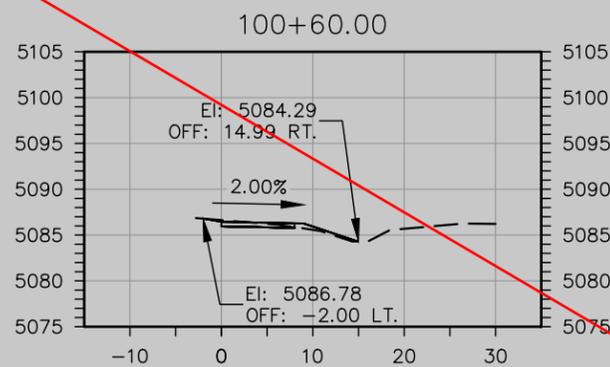
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 CROSS SECTIONS - SITE A**
 Designer: S. SCOTT
 Detailer: C. MCNAMARA
 Sheet Subset: X SECTIONS
 Subset Sheets: 5 of 7

Project No.
 21-674G
 Drawing Number XS-005
 Sheet Number **39**

2/27/2024



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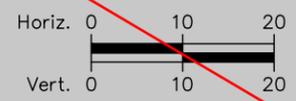
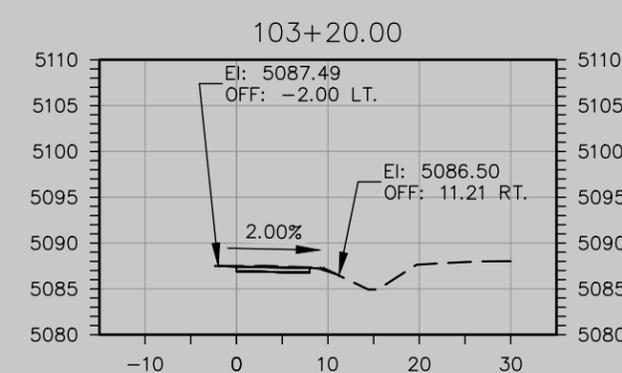
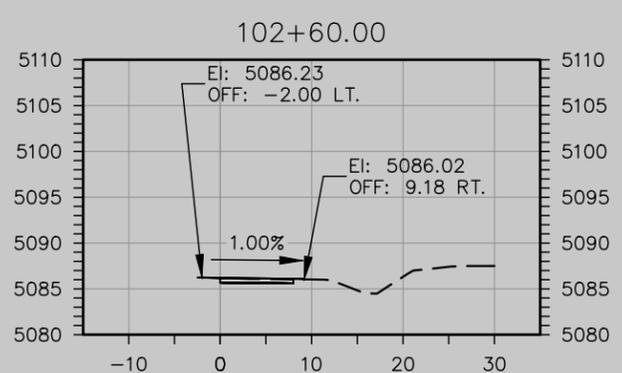
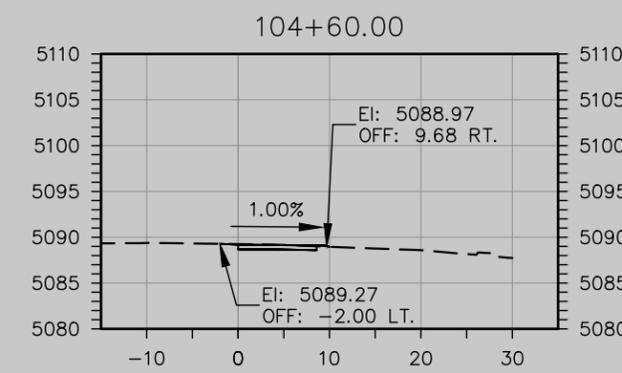
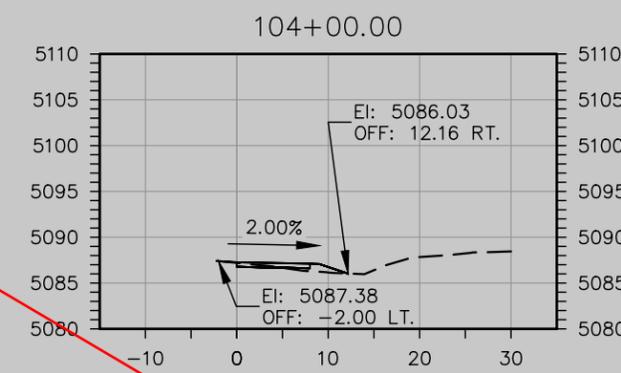
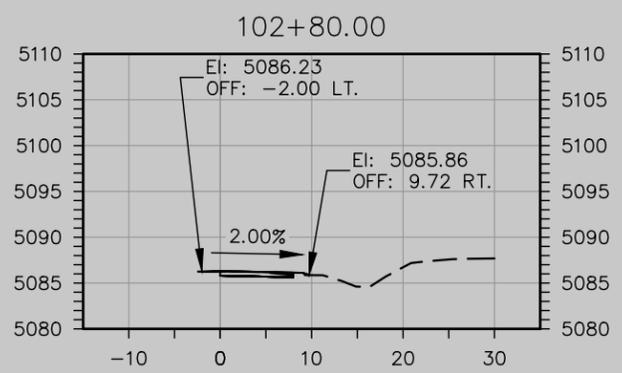
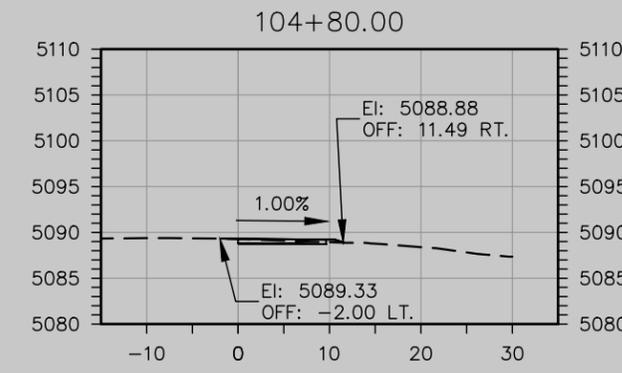
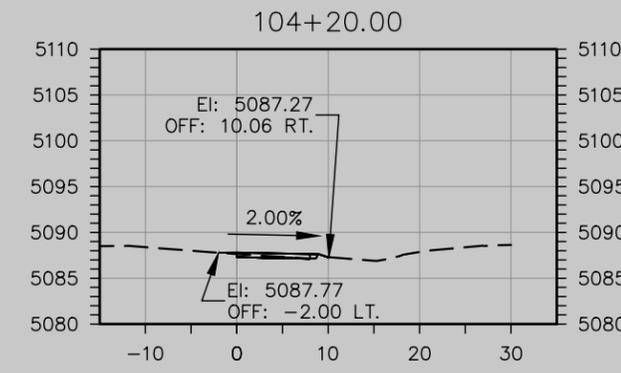
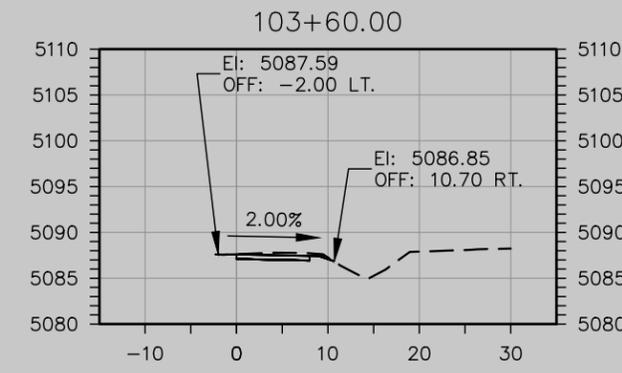
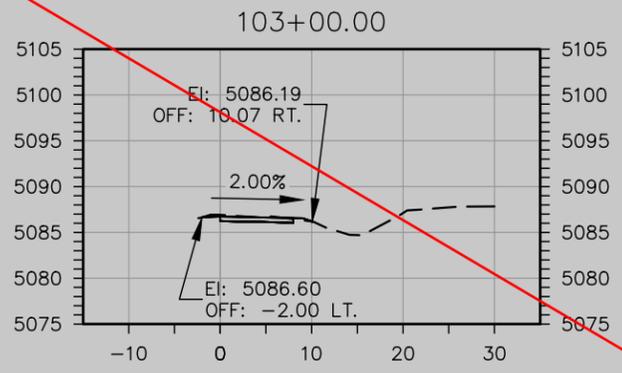
**RIVERDALE TRAIL CONNECTION
 CROSS SECTIONS - SITE C**

Designer: S. SCOTT
 Detailer: C. MCNAMARA
 Sheet Subset: X SECTIONS
 Structure Numbers
 Subset Sheets: 6 of 7

Project No.
 21-674G
 Drawing Number XS-006
 Sheet Number 40

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**RIVERDALE TRAIL CONNECTION
 CROSS SECTIONS - SITE C**

Designer: S. SCOTT
 Detailer: C. MCNAMARA
 Sheet Subset: X SECTIONS

Structure Numbers:
 Subset Sheets: 7 of 7

Project No.
 21-674G

Drawing Number XS-007
 Sheet Number 41

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