

LARIMER COUNTY, COLORADO

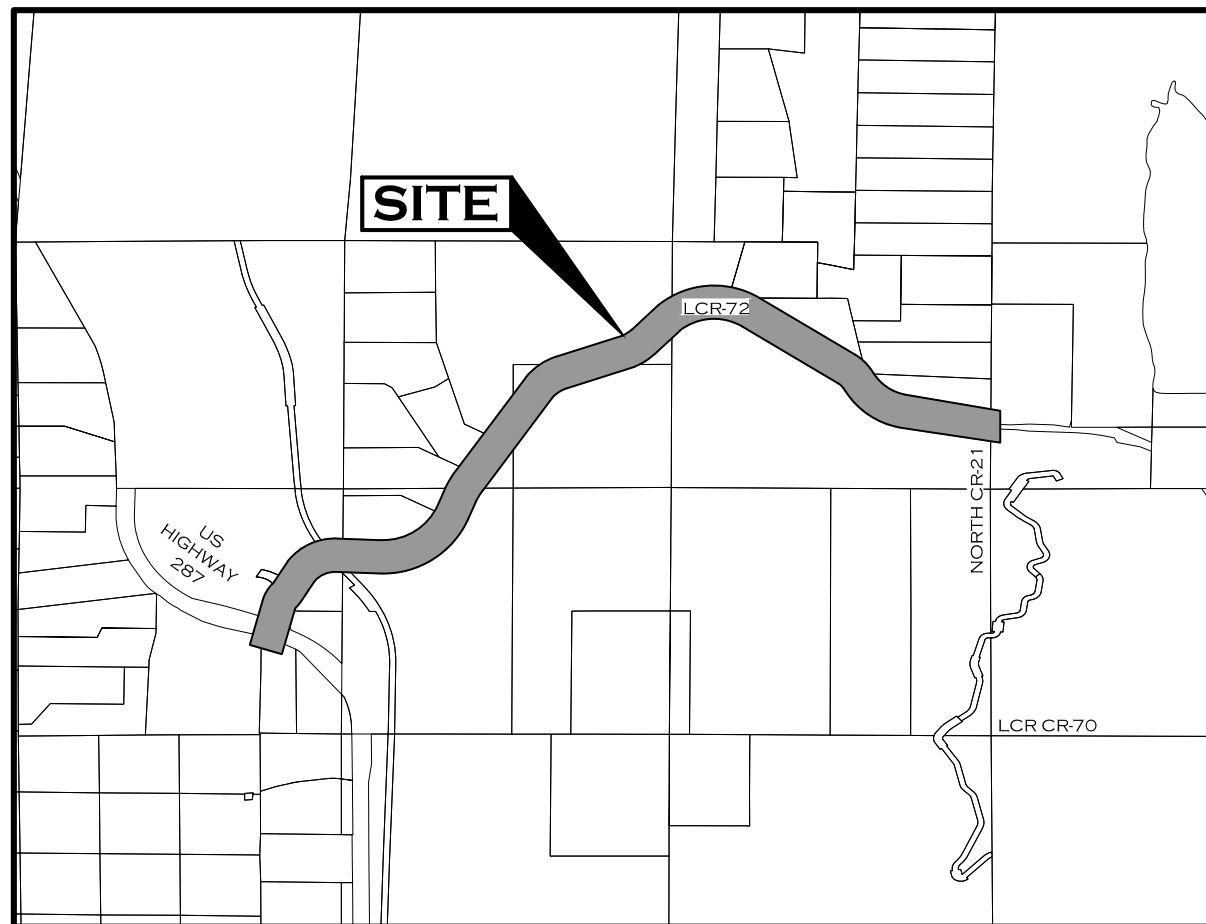
DIVISION OF PUBLIC WORKS

PUBLIC WORKS PROJECT NO. 335

COUNTY ROAD 72 FROM NORTH CR 21 TO US HWY 287

TABULATION OF LENGTH AND DESIGN DATA

STATION	DESCRIPTION	ROADWAY	
		LINEAR FEET	MILES
STA 100+00	BEGIN PROJECT LIMITS	15,842	3.00
STA 258+41.51	END PROJECT LIMITS		
TOTAL		15,842	3.00
* FOR INFORMATION ONLY			
DESIGN DATA			
ARTERIAL STA 100+00 TO 258+42			
DESIGN SPEED		55 MPH	
POSTED SPEED		50 MPH	
DESIGN TRAFFIC (2016)		3000 ADT	
CLEAR ZONE		26'	
MINIMUM CENTERLINE RADIUS		450.00'	
MAXIMUM GRADE		8.0%	
MINIMUM S.S.D. VERTICAL STA 109+70 - 258+42		495'	



PROJECT LOCATION MAP
SCALE: 1"=3000'

PROJECT BENCHMARK
PROJECT DATUM: NAVD88

CONTROL POINT NO. B 137
DESCRIBED BY NATIONAL GEODETIC SURVEY 1967 3 MI S FROM OWL CANYON.
ABOUT 3.0 MILES SOUTH ALONG US HWY 287 FROM OWL CANYON, 155 FEET WEST
OF THE CENTER LINE OF THE HIGHWAY, 162 FEET SOUTH OF A POINT WHERE US
HWY 287 CROSSES THE OLD RAILROAD GRADE, AND SET IN THE WEST RIGHT OF
WAY FENCE LINE.
ELEV= 5484.8

SHEET NO.

- 1
- 2
- 3
- 4
- 5
- 6-8
- 9
- 10
- 11
- 12-23
- 24-26
- 27-50
- 51-73
- 74-86
- 87-92
- 93-103
- 104-130
- 131-135
- 136-141

INDEX OF SHEETS

- COVER SHEET
- GENERAL NOTES
- SUMMARY OF APPROXIMATE QUANTITIES
- EARTHWORK TABULATION
- CDOT STANDARD PLANS LIST
- TYPICAL SECTIONS
- SURVEY CONTROL & ROADWAY CENTERLINE LAYOUT
- SURVEY TABULATION
- ROADWAY CENTERLINE LINE & CURVE TABLE
- EXISTING CONDITIONS & DEMO PLAN
- PLAN & PROFILE KEY MAP
- PLAN & PROFILES
- SUPERELEVATION PROFILE
- GRADING & EROSION CONTROL PLAN
- STORMWATER MANAGEMENT PLAN
- STORM PLAN & PROFILES
- CROSS SECTIONS
- HWY 287 SIGNING & STRIPING PLAN
- CONCRETE BOX CULVERT PLANS



BID SET
02/01/21

CALL UTILITY NOTIFICATION
CENTER OF COLORADO
811
CALL 2-BUSINESS DAYS IN ADVANCE
BEFORE YOU DIG, GRADE, OR EXCAVATE
FOR THE MARKING OF UNDERGROUND
MEMBER UTILITIES.

COMPUTER INFORMATION	REVISIONS		AS CONSTRUCTED	COVER SHEET	PROJECT NO. 335
CREATION DATE: 07/13/20	(R-1)	LARIMER COUNTY ENGINEERING DEPARTMENT 200 WEST OAK, SUITE 3000 POST OFFICE BOX 1190 FORT COLLINS, COLORADO 80522-1190 (970)498-5700 (970)498-7986 FAX	NO REVISIONS:	COVER SHEET	LARIMER COUNTY ROAD 72
MODIFICATION DATE: 02/01/21	(R-2)		REVISED:		SHEET NO. 1
FILE LOCATION: INTEREST PROJECTS\2019 PROJECTS\1421-094-00 (LARIMER COUNTY ROAD 72)\DRAWINGS\ENGINEERING PLANS	(R-3)		VOID:		
FILE NAME: 1421-094-00 CV.DWG	(R-4)				
	(R-5)				

GENERAL NOTES

ALL WORK SHALL BE DONE IN ACCORDANCE WITH LARIMER COUNTY RURAL AREA STREET STANDARDS, THE CDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2019 EDITION, AND THE PROJECT SPECIAL PROVISIONS.

FOR PRELIMINARY PLAN QUANTITIES OF PAVEMENT STRUCTURE MATERIALS, THE FOLLOWING RATES OF APPLICATION WERE USED:
 BITUMINOUS PAVEMENT (GRADING S&SX) @ 153 LBS PER CU. FT.
 AGGREGATE BASE COURSE @ 139 LBS PER CU. FT.

A TACK COAT OF DILUTED EMULSIFIED ASPHALT (SLOW SETTING) IS REQUIRED PRIOR TO THE PLACEMENT OF SUBSEQUENT LIFTS OF HOT BITUMINOUS PAVEMENT. PRIOR TO PLACEMENT OF TACK COAT, THE CONTRACTOR SHALL CLEAN THE SURFACE THAT WILL RECEIVE TACK COAT AS DIRECTED BY THE ENGINEER. EMULSIFIED ASPHALT AND CLEANING SHALL NOT BE MEASURED OR PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF HOT BITUMINOUS PAVEMENT.

EMULSIFIED ASPHALT (SLOW SETTING) SHALL BE DILUTED USING 1 PART EMULSIFIED ASPHALT (SLOW SETTING) AND 1 PART WATER. RATE OF APPLICATION SHALL BE AS DETERMINED BY THE ENGINEER AT THE TIME OF APPLICATION.

THE FOLLOWING SHALL BE FURNISHED WITH EACH BITUMINOUS PAVER:

1. SKI TYPE DEVICE AT LEAST 40 FEET IN LENGTH
2. SHORT SKI OR MATCHING SHOE
3. TRANSFER DEVICE
(TO TRANSFER ASPHALT MIX FROM WINDROW TO PAVING HOPPER – TOP LAYER ONLY)

ANY LAYER OF HOT MIX ASPHALT THAT IS TO HAVE A SUCCEEDING LAYER PLACED THEREON SHALL BE COMPLETED FULL WIDTH BEFORE THE SUCCEEDING LAYER IS PLACED, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

DRIVEWAY APPROACHES SHALL BE PAVED WITH TWO 2-INCH LIFTS OF HOT MIX ASPHALT TO THE LIMITS SHOWN ON THE PLANS AND ACCORDING TO THE DRIVEWAY TYPICAL SECTION. APPROACH RADII SHALL BE 15' OR AS SHOWN ON THE PLANS. ABC SHALL BE PLACED FROM THE HBP TO THE LIMITS SHOWN ON THE PLANS OR AS DIRECTED.

CONTRACTOR SHALL MAINTAIN INGRESS AND EGRESS TRAFFIC AT ALL APPROACHES AT ALL TIMES UNLESS OTHERWISE APPROVED BY THE ENGINEER.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE TEMPORARY MAILBOXES DURING CONSTRUCTION TO FACILITATE MAIL DELIVERY.

DEPTH OF MOISTURE-DENSITY CONTROL OF THIS PROJECT, INCLUDING DETOUR, SHALL BE AS FOLLOWS:
 FULL DEPTH OF ALL EMBANKMENTS
 BASES OF CUTS AND FILLS: 0.5 FOOT

EXCAVATION REQUIRE FOR COMPACTION OF BASES OF CUTS AND FILLS WILL BE CONSIDERED AS SUBSIDIARY TO THAT OPERATION AND WILL NOT BE PAID FOR SEPARATELY.

TYPE OF COMPACTION FOR EMBANKMENT ON THIS PROJECT WILL BE AASHTO T99 OR T180 AS DIRECTED BY THE ENGINEER.

WATER SHALL BE USED AS A DUST PALLIATIVE WHERE REQUIRED TO REDUCE MIGRATION OF AIR BORNE SOIL PARTICLES. CONTRACTOR SHALL PROVIDE WATER AS DUST PALLIATIVE AS DIRECTED BY THE ENGINEER. WATER AS DUST PALLIATIVE WILL NOT BE MEASURED AND PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE WORK.

CR 72 PAVEMENT STRIPING AND SIGN INSTALLATION WILL BE DONE BY COUNTY FORCES IN COORDINATION WITH THE CONTRACT WORK.

EXISTING SIGNS ALONG CR 72 SHALL BE REMOVED BY THE CONTRACTOR AND SALVAGED FOR RE-USE IF POSSIBLE. HWY 287 SIGNAGE TO BE REMOVED SHALL BE SALVAGED AND TAKEN TO CDOT'S LIVERMORE SHOP AT HWY 287 AND CR 74E.

SEEDING AND HYDRO-MULCHING WILL BE DONE BY OTHERS.

UTILITY INFORMATION AS SHOWN ON THE PLAN SHEETS ARE PLOTTED FROM THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL CALL "811" FOR UTILITY LOCATIONS AT LEAST 3 WORKING DAYS PRIOR TO ANY DIGGING, NOT INCLUDING THE DAY OF ACTUAL CONTACT.

REQUIRED UTILITY RELOCATIONS ARE NOT SHOWN ON THESE PLANS. ALL UTILITY RELOCATION WORK SHALL BE PERFORMED BY EACH RESPECTIVE UTILITY COMPANY AND/OR ITS CONTRACTOR.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING, AT HIS EXPENSE, ANY PROPERTY PINS OR SURVEY MONUMENTS REMOVED OR DESTROYED DURING CONSTRUCTION, AS PER SECTION 629 OF THE SPECIFICATIONS.



CALL UTILITY NOTIFICATION CENTER OF COLORADO
 811
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Larimer County Road 72 Fence Table										
Property Owner	Removal of Fence (LF)	Removal of Gate (EA)	Proposed Quantity (LF)	End Post (EA)	Corner and Line Brace Post (EA)	Reset Existing Gate (EA)	Proposed Gate Quantity (EA)	Proposed/Reset Gate Location	Fence Type	Height (ft)
Stout	105	1	128	2	2	-	1 (16' Metal)	STA 104+40 RT	Smooth Wire with Treated Wooden Posts	4'
Spence	136	-	-	-	-	-	-	-	-	-
Swartz RT	1,805	2	1,414	-	11	-	2 (16' Metal)	STA 110+65 RT STA 118+75 RT	Barbed Wire with Metal Posts	4'
Weaver STA 120+80 to 165+50 RT	3,922	1	3,902	3**	10**	1 (8' Metal)	-	STA 142+00 RT	5 Strand Barbed Wire with Metal Posts	4'
State of Colorado RT	1,859	-	1,832	1	2	-	-	-	Barbed Wire with Metal Posts	4'
Weaver STA 184+50 to 202+00 RT	355	-	359	2**	2**	-	-	-	5 Strand Barbed Wire with Metal Posts	4'
Weaver STA 206+00 to 211+00 RT	418	-	418	2	-	-	-	-	Barbed Wire with Metal Posts	4'
Weaver STA 215+00 to 252+50 RT	202	-	133	2**	1**	-	-	-	5 Strand Barbed Wire with Metal Posts	4'
Peden	-	-	-	-	-	-	-	-	none	-
Martins	503	-	467	1	3	-	-	-	Barbed Wire with Metal Posts	4'
Swartz LT	1,056	1	1,025	2	4	-	1 (16' Metal)	STA 113+75 LT	Barbed Wire with Metal Posts	4'
Monell	663	1	637	5	2	-	1 (12' Metal)	STA 121+00 LT	Barbed Wire with Metal Posts	4'
Mortimer	1,045	1	-	-	-	-	-	-	none	-
Kindsfater	925	1	813	2**	3**	-	1 (16' Metal)	STA 160+05	5 Strand Barbed Wire with Metal Posts***	4'
Weaver LT	1,215	1	1,253	5**	9**	-	1 (16' Metal)	STA 198+90	5 Strand Barbed Wire with Metal Posts	4'
State of Colorado LT	456	-	435	1	2	-	-	-	Barbed Wire with Metal Posts	4'
Brubaker	-	-	-	-	-	-	-	-	none	-
Rydell	360	-	417	4	-	-	-	-	Barbed Wire with Metal Posts	4'
Harvey	76	-	50	2	-	-	-	-	Barbed Wire with Metal Posts	4'
Total	15,101	9	13,283	34	51	1	8			

**END AND CORNER BRACING POSTS TO BE PRESSURE TREATED WOOD.

***5 STRAND BARB WIRE WITH ONE PRESSURE TREATED WOOD POST FOR EVERY 3 CONSECUTIVE METAL POSTS

Utility Company Contact List

Utility Type	Utility Owner	Contact Person	Phone Number	Email
Buried Phone	Century Link	Daniel Trupp	970-689-6856	Daniel.Trupp@centurylink.com
Buried Fiber Optic	CSU Telecom	Jason Huitt	970-491-2511	Jason.Huitt@colostate.edu
		Blaine Callison	970-567-6559	Blaine.Callison@colostate.edu
Overhead Electric	Poudre Valley REA	Glen Brozio	360-890-7505	gbrozio@pvrea.coop
Overhead Electric	Platte River Power Authority	Mark Curtis	970-420-2999	CurtisM@prpa.org

COMPUTER INFORMATION		REVISIONS		<p>LARIMER COUNTY ENGINEERING DEPARTMENT 200 WEST OAK, SUITE 3000 POST OFFICE BOX 1190 FORT COLLINS, COLORADO 80522-1190 (970)498-5700 (970)498-7986 FAX</p>	AS CONSTRUCTED NO REVISIONS: REVISED: VOID:	<p>GENERAL NOTES</p>	PROJECT NO. 335 LARIMER COUNTY ROAD 72 SHEET NO. 2
CREATION DATE:	07/13/20	<input type="checkbox"/> R-1					
MODIFICATION DATE:	02/01/21	<input type="checkbox"/> R-2					
FILE LOCATION:	INTEREST PROJECTS\2019 PROJECTS\1421-094-00 (LARIMER COUNTY ROAD 72)\DRAWINGS\ENGINEERING PLANS	<input type="checkbox"/> R-3					
FILE NAME:	1421-094-00 GN.DWG	<input type="checkbox"/> R-4					
		<input type="checkbox"/> R-5					

BID TABULATION

BID NO.	CONTRACT ITEM NO.	CONTRACT ITEM	UNIT	PROJECT TOTALS	
				PLAN	AS CONST.
1	201000	Clearing and Grubbing	LS	1	
2	202000	Removal of Structures and Obstructions	LS	1	
3	202024	Removal of Tree	LS	1	
4	202011	Removal of Structure	LS	1	
5	202071	Removal of Pipe	EA	15	
6	202095	Removal of Ground Sign*	EA	18	
7	202191	Removal of Pavement Marking	SF	1,165	
8	202210	Removal of Fence	LF	15,101	
9	202215	Removal of Gate	EA	7	
10	202220	Removal of Guard Rail Type 3	LF	578	
11	203020	Unclassified Excavation (Complete in Place)	CY	32,981	
12	203101	Rock Excavation (Complete in Place)	CY	11,040	
13	203055	Unsuitable Material (Complete in Place)	TON	1,400	
14	203170	Blading	HR	180	
15	206000	Structure Excavation	CY	463	
16	206010	Structure Backfill (Special)	CY	148	
17	207000	Topsoil	CY	6,656	
18	207010	Stockpile Topsoil	CY	6,449	
19	208008	Erosion Log (12 Inch) (weed free)	LF	4,750	
20	208014	Concrete Washout Structure	EA	1	
21	208031	Vehicle Tracking Pad	EA	2	
22	208040	Erosion Control Supervisor	LS	1	
23	209002	Dust Palliative	GAL	25,400	
24	210013	Reset Mailbox Structure (Type 1)	EA	4	
25	210019	Reset Mailbox Structure (Type 5)	EA	1	
26	210050	Reset Ground Sign**	EA	2	
27	210101	Reset Gate (Metal)	EA	1	
28	216030	Soil Retention Blanket (Jute)	SY	15,033	
29	304042	Aggregate Base Course (Class 5)	TON	42,540	
30	304046	Aggregate Base Course (Class 5)(Shoulder)	TON	5,932	
31	307500	Cement Treated Subgrade (12 inch)	SY	77,937	
32	403111	Hot Mix Asphalt (S)(75)(64-22)	TON	20,318	
33	403143	Hot Mix Asphalt (SX)(75)(64-22)	TON	8,127	
34	403085	Hot Mix Asphalt (SX)(75)(64-22)(Patching)	TON	163	
35	506002	Riprap (9 inch)	CY	273	
36	506004	Riprap (12 inch)	CY	139	
37	601060	Concrete Class D (Wall)	CY	19	
38	602010	Reinforcing Steel (Epoxy Coated)	LB	2,600	

*SIGNAGE REMOVED FROM CR72 TO BE TURNED OVER TO LARIMER COUNTY FORCES
 **SIGNAGE ALONG CR72 WILL BE RESET BY LARIMER COUNTY FORCES. SIGNAGE ALONG HWY 287 TO BE RESET BY THE CONTRACTOR

BID TABULATION

BID NO.	CONTRACT ITEM NO.	CONTRACT ITEM	UNIT	PROJECT TOTALS	
				PLAN	AS CONST.
39	603006	18 Inch Reinforce Concrete Pipe (Complete in Place)	LF	336	
40	603008	24 Inch Reinforce Concrete Pipe (Complete in Place)	LF	528	
41	603012	36 Inch Reinforce Concrete Pipe (Complete in Place)	LF	128	
42	603029	30 Inch x 19 Inch Elliptical RCP (Complete in Place)	LF	200	
43	603033	38 Inch x 24 Inch Elliptical RCP (Complete in Place)	LF	88	
44	603030	45 Inch x 29 Inch Elliptical RCP (Complete in Place)	LF	152	
45	603206	18 Inch RCP Flared End Section	EA	16	
46	603208	24 Inch RCP Flared End Section	EA	12	
47	603212	36 Inch RCP Flared End Section	EA	2	
48	603222	30 Inch x 19 Inch Elliptical Flared End Section	EA	6	
49	603223	38 Inch x 24 Inch Elliptical Flared End Section	EA	2	
50	603220	45 Inch x 29 Inch Elliptical Flared End Section	EA	4	
51	603494	15x4 foot Concrete Box Culvert (Precast)	LF	85	
52	606010	Guardrail Type 3 (7' Post)	LF	1,637	
53	606132	End Anchorages (Flared)	EA	8	
54	607010	Fence Barbed Wire with Metal Posts	LF	13,155	
55	607026	Fence Smooth Wire with Treated Wooden Posts	LF	128	
56	607162	12 Foot Gate (Metal)	EA	1	
57	607166	16 Foot Gate (Metal)	EA	7	
58	607200	End Post	EA	34	
59	607205	Corner and Line Brace Post	EA	51	
60	611013	15 Foot Cattle Guard	EA	1	
61	614006	Ground Sign Panel and Post	EA	6	
62	620002	Field Office (Class 2)	EA	1	
63	620020	Sanitary Facility	EA	1	
64	621000	Temporary Construction Road	LS	1	
65	621020	Temporary Construction Roadway Maintenance	SY	84,490	
66	625000	Construction Surveying	LS	1	
67	626000	Mobilization	LS	1	
68	627000	Pavement Marking Paint	GAL	36	
69	627045	Preformed Thermoplastic Pavement Markings (90 Mil)	SF	660	
70	630000	Construction Traffic Control	LS	1	
71	630010	Flagging	HR	2,600	
72	630020	Pilot Car Operation	HR	130	
73	630029	Traffic Control Management	DAY	90	
74	630032	Traffic Control Inspection	DAY	135	
75	630086	Portable Message Board Sign Panels	EA/DAY	30	
76	630087	Portable Message Board Sign Panels	EA	2	
77	630160	Concrete Barrier (Temporary)	LF	304	
78	700003	F/A Minor Contract Revisions	F/A	1	



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COMPUTER INFORMATION		REVISIONS		<p>LARIMER COUNTY ENGINEERING DEPARTMENT 200 WEST OAK, SUITE 3000 POST OFFICE BOX 1190 FORT COLLINS, COLORADO 80522-1190 (970)498-5700 (970)498-7986 FAX</p>	AS CONSTRUCTED NO REVISIONS: REVISED: VOID:	<p align="center">SUMMARY OF APPROXIMATE QUANTITIES</p>	PROJECT NO. 335 LARIMER COUNTY ROAD 72 SHEET NO. 3
CREATION DATE: 07/13/20 MODIFICATION DATE: 02/01/21 FILE LOCATION: INTERWEST PROJECTS\2019 PROJECTS\1421-094-00 (LARIMER COUNTY ROAD 72)\DRAWINGS\ENGINEERING PLANS FILE NAME: 1421-094-00 TAB.DWG	(R-1) (R-2) (R-3) (R-4) (R-5)						

LARIMER COUNTY ROAD 72 - SUMMARY OF EARTHWORK		
Pay Items		Cubic Yards
Unclassified Excavation (Complete in Place)		32,981
Structure Excavation		190
Unsuitable Material (Complete in Place)		1400*
Rock Excavation		11,040
Topsoil Stockpile		6,449
Topsoil		6,656
FOR INFORMATION ONLY		
Unclassified Excavation (from cross sections)		44,021
Embankment (from cross sections)		27,928
Embankment (Owl Canyon Trail)		1,400
Earthwork Balance		
Unclassified Excavation less 15%		37,418
Structure Excavation less 15%		162
Excess Embankment		8,251
Top Soil		
Stripped Topsoil (4 Inches)		6,449
Replace 4 inches deep on shoulder areas		6,656

* UNSUITABLE MATERIAL MEASURED AND PAID FOR BY THE TON, NOT CUBIC YARD

EARTHWORK TABULATION NOTES:

- EXCAVATED CLAYSTONE SHALL NOT BE PLACED AS EMBANKMENT WITHIN THE TOP 12 INCHES OF THE SUBGRADE WITHIN EMBANKMENT SUPPORTING THE ROADWAY SHOULDERS AND PAVEMENT.
- EXCESS EMBANKMENT SHALL BE DISTRIBUTED ON SITE AS FIELD DIRECTED OR BECOME PROPERTY OF THE CONTRACTOR.

MILE 1

LARIMER COUNTY ROAD 72 - SUMMARY OF EARTHWORK		
STA 100+00 to STA 153+00		
Pay Items		Cubic Yards
Unclassified Excavation (Complete in Place)		25,403
Structure Excavation		190
Unsuitable Material (Complete in Place)		467*
Rock Excavation		8,107
Topsoil (Remove, Stockpile, & Redistribute)		3,894
FOR INFORMATION ONLY		
Unclassified Excavation (from cross sections)		33,510
Embankment (from cross sections)		20,576
Embankment (Owl Canyon Trail)		1,400
Earthwork Balance		
Unclassified Excavation less 15%		28,484
Structure Excavation less 15%		162
Excess Material		6,669
Top Soil		
Stripped Topsoil (4 Inches)		3,894
Replace 4 inches deep on shoulder areas		3,388
Excess Top Soil		506

MILE 3

LARIMER COUNTY ROAD 72 - SUMMARY OF EARTHWORK		
STA 206+00 TO STA 257+00		
Pay Items		Cubic Yards
Unclassified Excavation (Complete in Place)		6,233
Structure Excavation		0
Unsuitable Material (Complete in Place)		467*
Rock Excavation		2,933
Topsoil (Remove, Stockpile, & Redistribute)		639
FOR INFORMATION ONLY		
Unclassified Excavation (from cross sections)		6,233
Embankment (from cross sections)		3,144
Earthwork Balance		
Unclassified Excavation less 15%		5,298
Structure Excavation less 15%		0
Additional Fill Required		2,154
Top Soil		
Stripped Topsoil (4 Inches)		639
Replace 4 inches deep on shoulder areas		1,182
Additional Top Soil required		-543

MILE 2

LARIMER COUNTY ROAD 72 - SUMMARY OF EARTHWORK		
STA 153+00 to STA 206+00		
Pay Items		Cubic Yards
Unclassified Excavation (Complete in Place)		4,278
Structure Excavation		0
Unsuitable Material (Complete in Place)		467*
Rock Excavation		0
Topsoil (Remove, Stockpile, & Redistribute)		1,438
FOR INFORMATION ONLY		
Unclassified Excavation (from cross sections)		4,278
Embankment (from cross sections)		4,207
Earthwork Balance		
Unclassified Excavation less 15%		3,636
Structure Excavation less 15%		0
Additional Fill Required		571
Top Soil		
Stripped Topsoil (4 Inches)		1,438
Replace 4 inches deep on shoulder areas		1,607
Additional Top Soil required		-170

SUMMARY OF EARTHWORK FOR EACH MILE OF ROADWAY SHOWN FOR INFORMATION ONLY



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COMPUTER INFORMATION		REVISIONS			AS CONSTRUCTED NO REVISIONS: REVISED: VOID:	EARTHWORK TABULATION	PROJECT NO. 335
CREATION DATE:	07/13/20	(R-1)					LARIMER COUNTY ROAD 72
MODIFICATION DATE:	02/01/21	(R-2)					
FILE LOCATION:	INTERWEST PROJECTS\2019 PROJECTS\1421-094-00 (LARIMER COUNTY ROAD 72)\DRAWINGS\ENGINEERING PLANS	(R-3)					
FILE NAME:	1421-094-00 TAB.DWG	(R-4)					
		(R-5)					
				ENGINEERING DEPARTMENT 200 WEST OAK, SUITE 3000 POST OFFICE BOX 1190 FORT COLLINS, COLORADO 80522-1190 (970)498-5700 (970)498-7986 FAX		SHEET NO. 4	

PLAN NUMBER	M STANDARD TITLE	PAGE NUMBER
<input 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 checked="" 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 checked="" type="checkbox"/> M-210-1	MAILBOX SUPPORTS (2 SHEETS)	30-31
<input type="checkbox"/> M-214-1	NURSERY STOCK DETAILS	32
<input checked="" type="checkbox"/> M-216-1	SOIL RETENTION COVERING (2 SHEETS)	33-34
<input type="checkbox"/> M-412-1	CONCRETE PAVEMENT JOINTS (5 SHEETS)	35-39
<input type="checkbox"/> M-412-2	CONCRETE PAVEMENT CRACK REPAIR (4 SHEETS) <i>(NEW, ISSUED ON OCTOBER 7, 2019)</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 checked="" 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 checked="" 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 checked="" type="checkbox"/> M-603-2	REINFORCED CONCRETE PIPE	56
<input checked="" type="checkbox"/> M-603-3	PRECAST CONCRETE BOX CULVERT <i>(REVISED ON SEPTEMBER 10, 2020)</i>	57
<input type="checkbox"/> M-603-4	CORRUGATED POLYETHYLENE PIPE (AASHTO M294) AND POLYPROPYLENE PIPE (AASHTO M330)	58
<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 checked="" 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
<input type="checkbox"/> M-605-1	SUBSURFACE DRAINS	78

PLAN NUMBER	M STANDARD TITLE	PAGE NUMBER
<input checked="" type="checkbox"/> M-606-1	MIDWEST GUARDRAIL SYSTEM TYPE 3 W-BEAM 31 INCHES (19 SHEETS) <i>(REVISED ON MARCH 5, 2020)</i>	79-97
<input type="checkbox"/> M-606-13	GUARDRAIL TYPE 7 F-SHAPE BARRIER (4 SHEETS)	98-101
<input checked="" type="checkbox"/> M-606-14	PRECAST TYPE 7 CONCRETE BARRIER (4 SHEETS) <i>(REVISED ON AUGUST 21, 2020)</i>	102-104
<input type="checkbox"/> M-606-15	GUARDRAIL TYPE 9 SINGLE SLOPE BARRIER (11 SHEETS) <i>(REVISED ON MARCH 5, 2020)</i>	105-115
<input checked="" 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) <i>(REVISED ON JULY 13, 2020)</i>	123-127
<input type="checkbox"/> M-607-10	PICKET SNOW FENCE	128
<input type="checkbox"/> M-607-15	ROAD CLOSURE GATE (9 SHEETS)	129-137
<input type="checkbox"/> M-608-1	CURB RAMPS (10 SHEETS)	138-147
<input type="checkbox"/> M-609-1	CURBS, GUTTERS, AND SIDEWALKS (4 SHEETS)	148-151
<input checked="" 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 checked="" type="checkbox"/> M-629-1	SURVEY MONUMENTS (2 SHEETS)	169-170

PLAN NUMBER	S STANDARD TITLE	PAGE NUMBER
<input checked="" type="checkbox"/> S-612-1	DELINEATOR INSTALLATIONS (8 SHEETS)	171-178
<input type="checkbox"/> S-613-1	ROADWAY LIGHTING (6 SHEETS) <i>(REVISED ON SEPTEMBER 30, 2020)</i>	179-186
<input type="checkbox"/> S-613-2	ALTERNATIVE ROADWAY LIGHTING (4 SHEETS) <i>(NEW, ISSUED ON SEPTEMBER 30, 2020)</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
<input type="checkbox"/> S-614-9	PEDESTRIAN PUSH BUTTON POST ASSEMBLY (2 SHEETS) <i>(SUPERSEDED ON JANUARY 23, 2020 BY S-614-45)</i>	205-206
<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) <i>(REVISED ON SEPTEMBER 21, 2020)</i>	216-217
<input type="checkbox"/> S-614-22	TYPICAL MULTI-SIGN INSTALLATIONS	218
<input type="checkbox"/> S-614-40	TYPICAL TRAFFIC SIGNAL 30'-75' DOUBLE MAST ARMS 65'-75' SINGLE MAST ARMS (5 SHEETS)	219-223
<input type="checkbox"/> S-614-40A	ALTERNATIVE TRAFFIC SIGNAL 25'-55' SINGLE MAST ARMS (4 SHEETS)	224-227
<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 (9 SHEETS) <i>(REVISED ON APRIL 17, 2020)</i>	281-289
<input checked="" type="checkbox"/> S-630-1	TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION (24 SHEETS)	290-313
<input checked="" 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 December 3, 2020

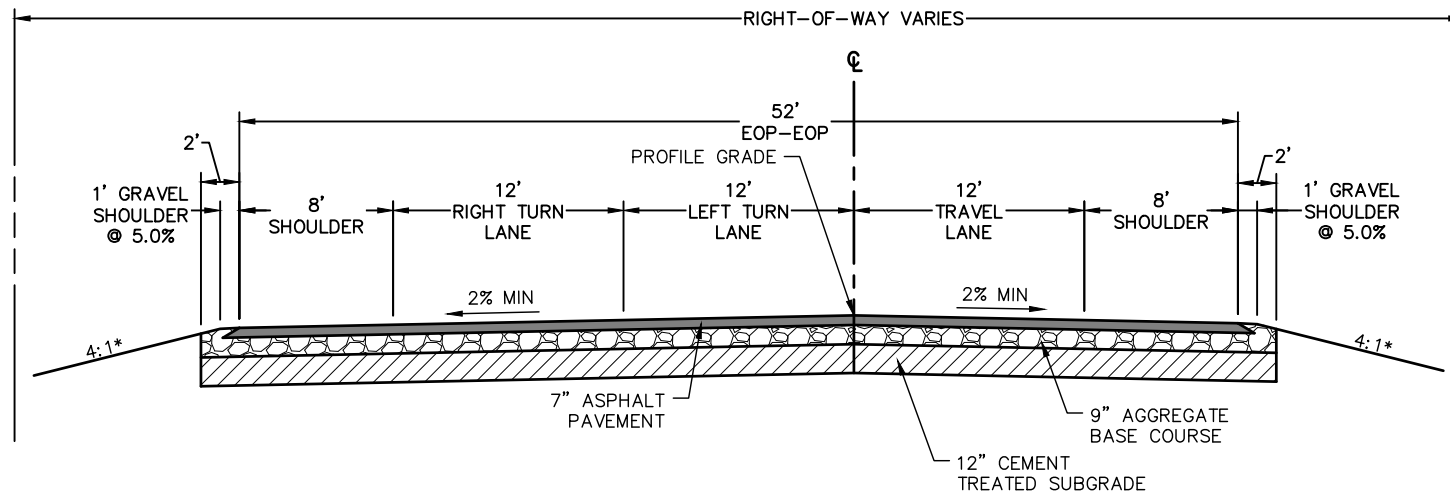
ALL OF THE M&S STANDARD PLANS, AS SUPPLEMENTED AND REVISED, APPLY TO THIS PROJECT WHEN USED BY DESIGNATED PAY ITEM OR SUBSIDIARY ITEM.

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



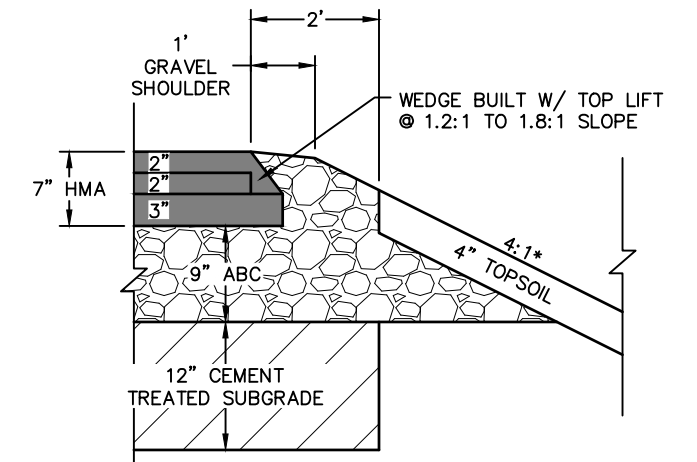
CALL UTILITY NOTIFICATION
 CENTER OF COLORADO
811
 CALL 2-BUSINESS DAYS IN ADVANCE
 BEFORE YOU DIG, GRADE, OR EXCAVATE
 FOR THE MARKING OF UNDERGROUND
 MEMBER UTILITIES.

COMPUTER INFORMATION	REVISIONS		AS CONSTRUCTED	PROJECT NO. 335
CREATION DATE: 07/13/20	<input type="checkbox"/> R-1	LARIMER COUNTY ENGINEERING DEPARTMENT 200 WEST OAK, SUITE 3000 POST OFFICE BOX 1190 FORT COLLINS, COLORADO 80522-1190 (970)498-5700 (970)498-7986 FAX	NO REVISIONS:	CDOT STANDARD PLANS LIST
MODIFICATION DATE: 02/01/21	<input type="checkbox"/> R-2		REVISED:	
FILE LOCATION: INTERWEST PROJECTS\2019 PROJECTS\1421-094-00 (LARIMER COUNTY ROAD 72)\DWG\ENGINEERING PLANS	<input type="checkbox"/> R-3		VOID:	LARIMER COUNTY ROAD 72
FILE NAME: 1421-094-00 GN.DWG	<input type="checkbox"/> R-4			SHEET NO. 5
	<input type="checkbox"/> R-5			



LARIMER COUNTY ROAD 72
STA: 100+00 TO 102+55
TYPICAL SECTION
 N.T.S.

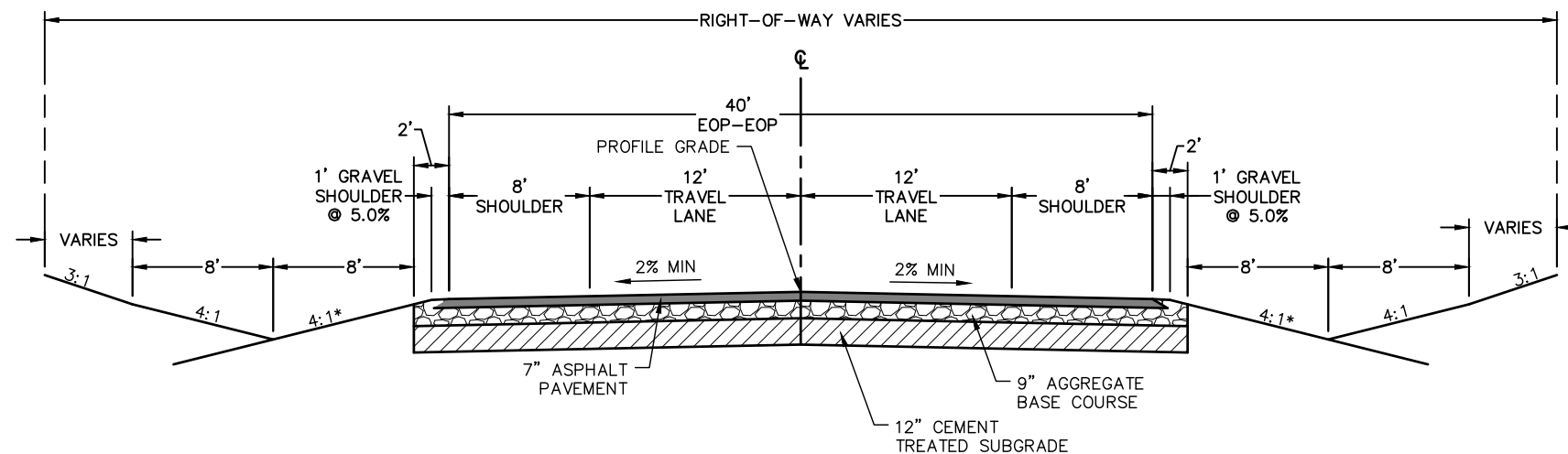
*OR AS SHOWN ON CROSS SECTIONS



SAFETY EDGE TREATMENT
TYPICAL SECTION
 N.T.S.

SAFETY EDGE NOTES:

1. THE SAFETY EDGE WILL BE CONSTRUCTED AS PART OF THE ROADWAY PAVEMENT. A SHOULDER WEDGE DEVICE WILL BE ADDED TO THE SCREED OF THE PAVING MACHINE.
2. THE CONTRACTOR MAY USE A SHOULDER WEDGE MAKER OR A SIMILAR DEVICE THAT PRODUCES THE SAME COMPACTION RESULTS.
3. SHORT SECTIONS OF HANDWORK WILL BE ALLOWED WHEN NECESSARY FOR TRANSITIONS AND TURNOUTS.
4. SITE PREPARATION AND ADDITIONAL EARTHWORK REQUIRED TO CONSTRUCT THE SAFETY EDGE WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE WORK.
5. SAFETY EDGE SHALL NOT BE INSTALLED IN FRONT OF GUARD RAIL OR AT INTERSECTIONS.



LARIMER COUNTY ROAD 72
STA: 102+55 TO 194+43,
198+68 TO 208+28 & 214+00 TO 258+41
TYPICAL SECTION
 N.T.S.

*OR AS SHOWN ON CROSS SECTIONS

PAVEMENT SECTION:

FULL DEPTH ASPHALT SECTION
 2" HOT MIX ASPHALT (GRADING SX)(ASPH)(75)(PG 64-22) RAP*
 2" HOT MIX ASPHALT (GRADING S)(ASPH)(75)(PG 64-22) RAP*
 3" HOT MIX ASPHALT (GRADING S)(ASPH)(75)(PG 64-22) RAP*
 9" AGGREGATE BASE COURSE (CLASS 5)
 12" CEMENT TREATED SUBGRADE

*UP TO 20% RAP IN ALL LIFTS

SHOULDER
 AGGREGATE BASE COURSE (CLASS 5)

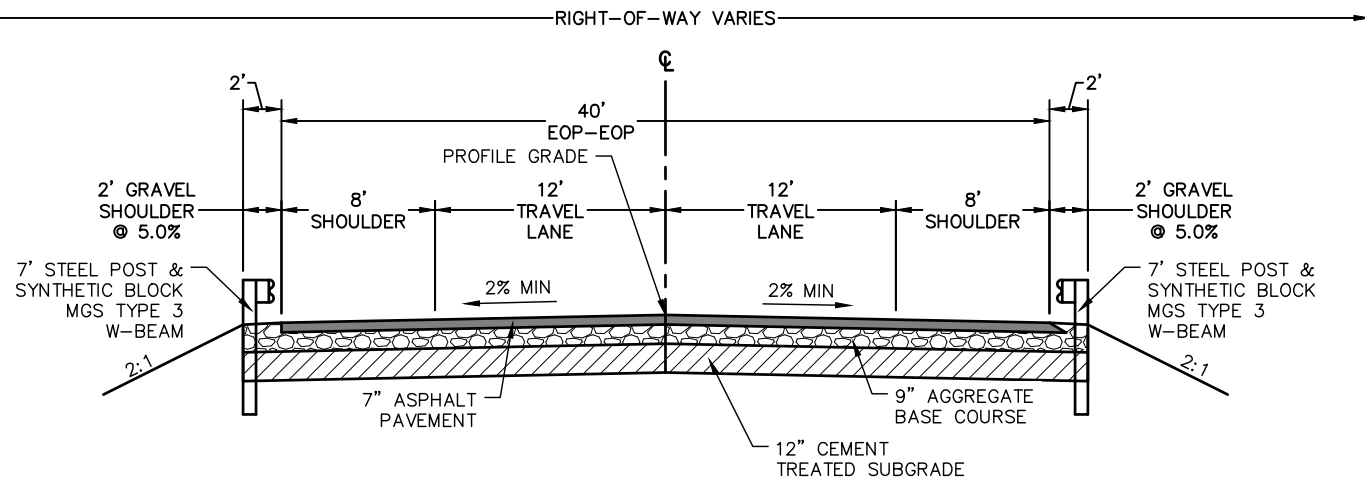
ROCK OVER EXCAVATION NOTE:

1. STA 105+50 TO 109+00 AND 207+00 TO 213+00 REQUIRES OVER EXCAVATION BELOW ROADWAY SUBGRADE. MAINTAIN A MINIMUM OF 3 FEET SEPARATION FROM BOTTOM OF STANDARD 9 INCH AGGREGATE BASE COURSE TO TOP OF EXISTING CLAYSTONE OR SANDSTONE LAYER. BRIDGE GAP WITH ADDITIONAL AGGREGATE BASE MATERIAL OR AS APPROVED BY THE PROJECT ENGINEER. FINAL LIMITS OF OVER EXCAVATION TO BE FIELD VERIFIED.



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 MEMBER UTILITIES.

COMPUTER INFORMATION		REVISIONS		<p>LARIMER COUNTY ENGINEERING DEPARTMENT 200 WEST OAK, SUITE 3000 POST OFFICE BOX 1190 FORT COLLINS, COLORADO 80522-1190 (970)498-5700 (970)498-7986 FAX</p>	AS CONSTRUCTED	TYPICAL SECTIONS	PROJECT NO. 335
CREATION DATE:	07/13/20	(R-1)			NO REVISIONS:		LARIMER COUNTY ROAD 72
MODIFICATION DATE:	02/01/21	(R-2)			REVISED:		
FILE LOCATION:	INTEREST PROJECTS\2019 PROJECTS\1421-094-00 (LARIMER COUNTY ROAD 72)\DWG\ENGINEERING PLANS	(R-3)			VOID:		
FILE NAME:	1421-094-00 GN.DWG	(R-4)					SHEET NO. 6

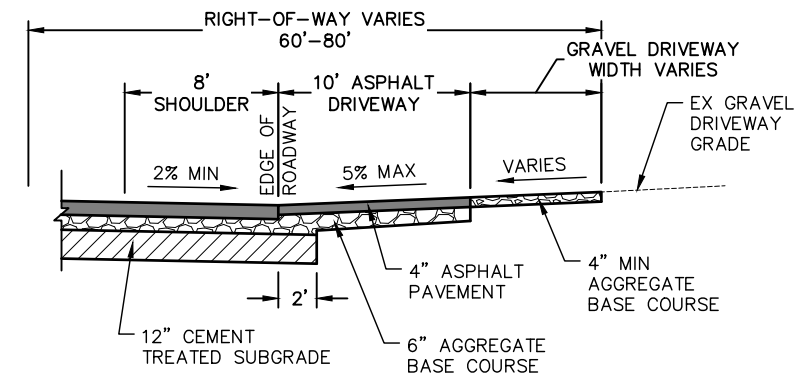


**LARIMER COUNTY ROAD 72 STA: 194+43 TO 198+68
& STA: 208+28 TO 214+00 TYPICAL SECTION**
N.T.S.

*SEE PLAN VIEW FOR EXACT STATION LIMITS OF GUARDRAIL

ROCK OVER EXCAVATION NOTE:

1. STA 207+00 TO 213+00 REQUIRES OVER EXCAVATION BELOW ROADWAY SUBGRADE. MAINTAIN A MINIMUM OF 3 FEET SEPARATION FROM BOTTOM OF STANDARD 9 INCH AGGREGATE BASE COURSE TO TOP OF EXISTING CLAYSTONE OR SANDSTONE LAYER. BRIDGE GAP WITH ADDITIONAL AGGREGATE BASE MATERIAL OR AS APPROVED BY THE PROJECT ENGINEER. FINAL LIMITS OF OVER EXCAVATION TO BE FIELD VERIFIED.



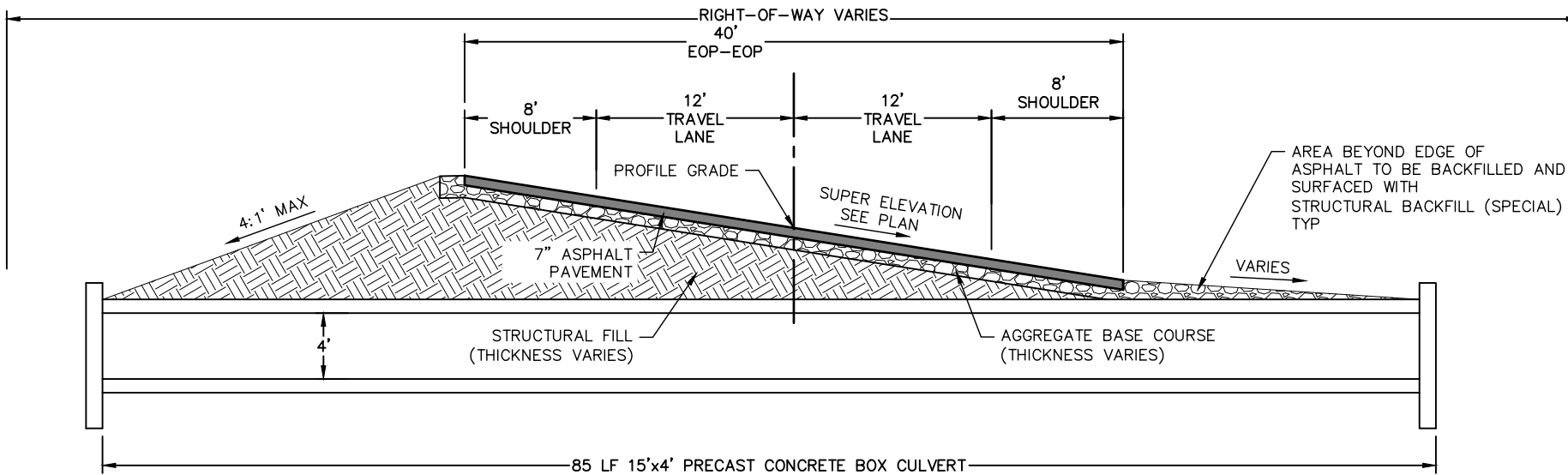
LARIMER COUNTY ROAD 72 DRIVEWAY TYPICAL SECTION
N.T.S.

DRIVEWAY & FIELD ACCESS PAVEMENT SECTION:

FULL DEPTH ASPHALT SECTION

- 2" HOT MIX ASPHALT (GRADING SX)(ASPH)(75)(PG 64-22)
- 2" HOT MIX ASPHALT (GRADING SX)(ASPH)(75)(PG 64-22)
- 6" AGGREGATE BASE COURSE (CLASS 5)
- COMPACTED SUBGRADE

DRIVEWAY ASPHALT SHALL BE PAID UNDER:
HOT MIX ASPHALT (PATCHING)(GRADING SX)(75)(PG 64-22)

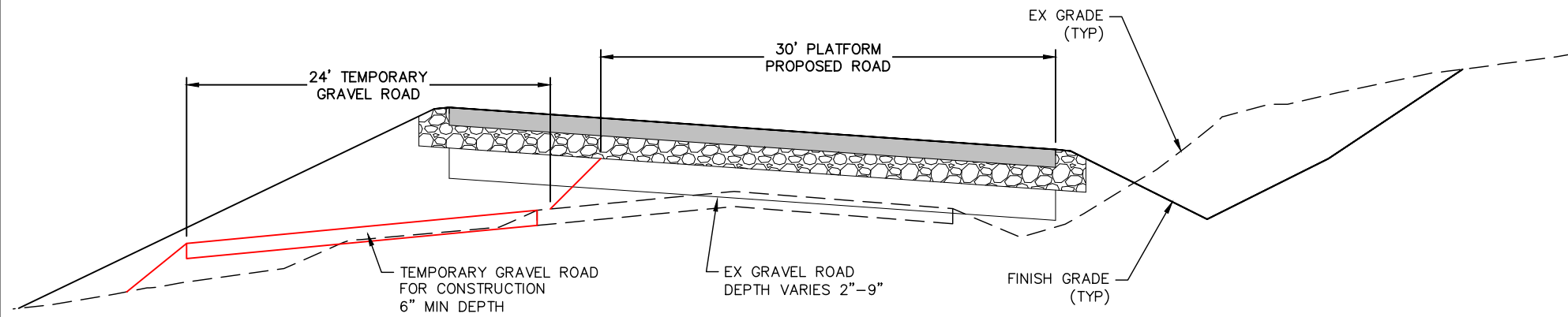


**LARIMER COUNTY ROAD 72
STA: 120+21 TO 120+35
TYPICAL SECTION**
N.T.S.



CALL UTILITY NOTIFICATION
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FOR THE MARKING OF UNDERGROUND
MEMBER UTILITIES.

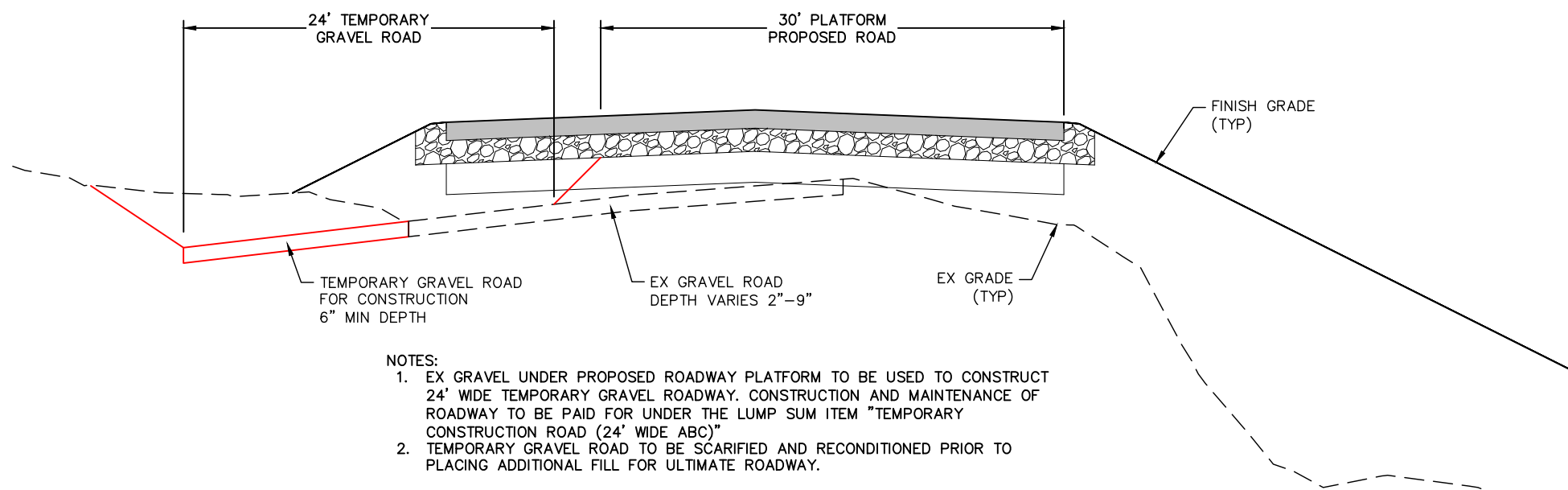
COMPUTER INFORMATION		REVISIONS		<p>LARIMER COUNTY ENGINEERING DEPARTMENT 200 WEST OAK, SUITE 3000 POST OFFICE BOX 1190 FORT COLLINS, COLORADO 80522-1190 (970)498-5700 (970)498-7986 FAX</p>	AS CONSTRUCTED	TYPICAL SECTIONS	PROJECT NO. 335
CREATION DATE:	07/13/20	(R-1)			NO REVISIONS:		LARIMER COUNTY ROAD 72
MODIFICATION DATE:	02/01/21	(R-2)			REVISED:		
FILE LOCATION:	INTEREST PROJECTS\2019 PROJECTS\1421-094-00 (LARIMER COUNTY ROAD 72)\DRAWINGS\ENGINEERING PLANS	(R-3)			VOID:		
FILE NAME:	1421-094-00 GN.DWG	(R-4)					
		(R-5)				SHEET NO. 7	



- NOTES:
- EX GRAVEL UNDER PROPOSED ROADWAY PLATFORM TO BE USED TO CONSTRUCT 24' WIDE TEMPORARY GRAVEL ROADWAY. CONSTRUCTION AND MAINTENANCE OF ROADWAY TO BE PAID FOR UNDER THE LUMP SUM ITEM "TEMPORARY CONSTRUCTION ROAD (24' WIDE ABC)"
 - TEMPORARY GRAVEL ROAD TO BE SCARIFIED AND RECONDITIONED PRIOR TO PLACING ADDITIONAL FILL FOR ULTIMATE ROADWAY.

24' TEMPORARY GRAVEL ROAD TYPICAL SECTION - FILL CONDITION

1"=10'



- NOTES:
- EX GRAVEL UNDER PROPOSED ROADWAY PLATFORM TO BE USED TO CONSTRUCT 24' WIDE TEMPORARY GRAVEL ROADWAY. CONSTRUCTION AND MAINTENANCE OF ROADWAY TO BE PAID FOR UNDER THE LUMP SUM ITEM "TEMPORARY CONSTRUCTION ROAD (24' WIDE ABC)"
 - TEMPORARY GRAVEL ROAD TO BE SCARIFIED AND RECONDITIONED PRIOR TO PLACING ADDITIONAL FILL FOR ULTIMATE ROADWAY.

24' TEMPORARY GRAVEL ROAD TYPICAL SECTION - CUT CONDITION

1"=10'

MILE 1

LARIMER COUNTY ROAD 72 - SUMMARY OF TEMPORARY ROAD EARTHWORK		
STA 100+00 to STA 153+00		
FOR INFORMATION ONLY		
		Cubic Yards
Unclassified Excavation (from cross sections)		461
Embankment (from cross sections)		2,259
Earthwork Balance		
Unclassified Excavation less 15%		392
Additional Fill Required		1,866

MILE 2

LARIMER COUNTY ROAD 72 - SUMMARY OF TEMPORARY ROAD EARTHWORK		
STA 153+00 to STA 206+00		
FOR INFORMATION ONLY		
		Cubic Yards
Unclassified Excavation (from cross sections)		575
Embankment (from cross sections)		1,439
Earthwork Balance		
Unclassified Excavation less 15%		489
Additional Fill Required		950

MILE 3

LARIMER COUNTY ROAD 72 - SUMMARY OF TEMPORARY ROAD EARTHWORK		
STA 206+00 TO STA 257+00		
FOR INFORMATION ONLY		
		Cubic Yards
Unclassified Excavation (from cross sections)		300
Embankment (from cross sections)		2,541
Earthwork Balance		
Unclassified Excavation less 15%		255
Additional Fill Required		2,286

NOTE: EARTHWORK FOR THE TEMPORARY 24 FOOT CONSTRUCTION ROAD WILL NOT BE MEASURED AND PAID FOR SEPARATELY. IT IS PROVIDED AS INFORMATION ONLY TO HELP ESTABLISH THE LUMP SUM COST OF THE ITEM. THE "ADDITIONAL FILL" NOTED IN THE SUMMARY OF EARTHWORK SHALL COME FROM ONSITE CUTS ASSOCIATED WITH THE PROPOSED ROADWAY.

CALL UTILITY NOTIFICATION CENTER OF COLORADO
811
CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.



COMPUTER INFORMATION	
CREATION DATE:	07/13/20
MODIFICATION DATE:	02/01/21
FILE LOCATION:	INTEREST PROJECTS\2019 PROJECTS\1421-094-00 (LARIMER COUNTY ROAD 72)\DRAWINGS\ENGINEERING PLANS
FILE NAME:	1421-094-00 GN.DWG

REVISIONS	
(R-1)	
(R-2)	
(R-3)	
(R-4)	
(R-5)	

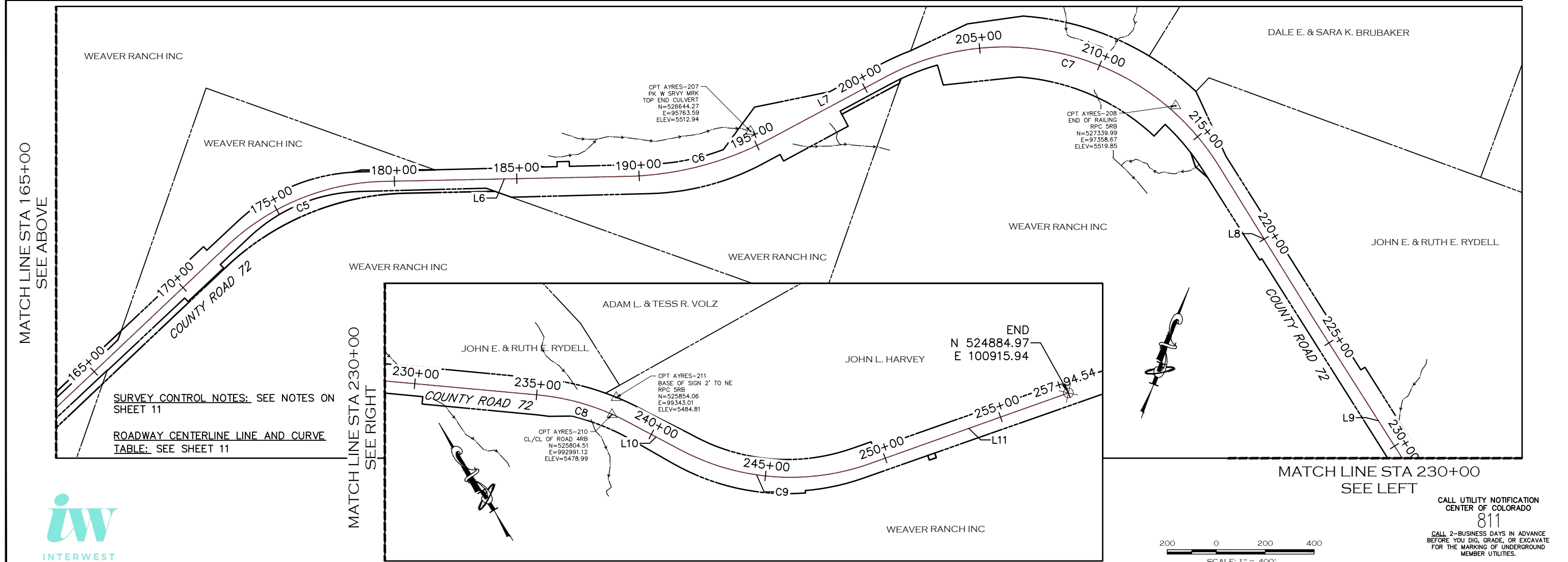
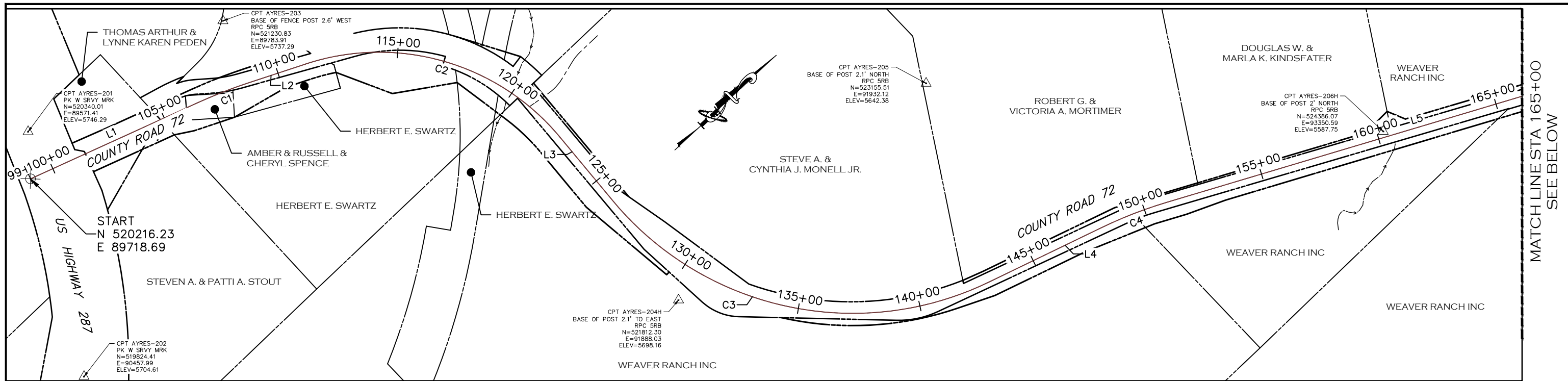


ENGINEERING DEPARTMENT
200 WEST OAK, SUITE 3000
POST OFFICE BOX 1190
FORT COLLINS, COLORADO 80522-1190
(970)498-5700
(970)498-7986 FAX

AS CONSTRUCTED
NO REVISIONS:
REVISED:
VOID:

TYPICAL SECTIONS

PROJECT NO. 335
LARIMER COUNTY ROAD 72
SHEET NO. 8



SURVEY CONTROL NOTES: SEE NOTES ON SHEET 11
 ROADWAY CENTERLINE LINE AND CURVE TABLE: SEE SHEET 11



COMPUTER INFORMATION	
CREATION DATE:	07/13/20
MODIFICATION DATE:	02/01/21
FILE LOCATION:	INTEREST PROJECTS\2019 PROJECTS\1421-094-00 LARIMER COUNTY ROAD 72\DRAWINGS\ENGINEERING PLANS
FILE NAME:	1421-094-00 SURVEY CONTROL PLAN.DWG

REVISIONS	
(R-1)	
(R-2)	
(R-3)	
(R-4)	
(R-5)	



LARIMER COUNTY ENGINEERING DEPARTMENT
 200 WEST OAK, SUITE 3000
 POST OFFICE BOX 1190
 FORT COLLINS, COLORADO 80522-1190
 (970)498-5700
 (970)498-7986 FAX

AS CONSTRUCTED
NO REVISIONS:
REVISED:
VOID:

SURVEY CONTROL & ROADWAY CENTERLINE LAYOUT

PROJECT NO. 335
LARIMER COUNTY ROAD 72
SHEET NO. 9

CALL UTILITY NOTIFICATION CENTER OF COLORADO 811
 CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

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

- Format *
- 3D Design Modeling Electronic Files
 - Horizontal Control
 - Vertical Control
 - Roadway Alignment
 - Original Terrain Data
 - Other: _____

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

TYPE OF PROJECT

- Landscaping
- Signalization
- Safety Improvement
- Asphalt Overlay
- Concrete Overlay
- Minor Widening
- Major Reconstruction
- New Roadway Construction
- Bridge Replacement
- Bridge Widening
- New Bridge
- Other: _____

SURVEY WORK TO BE PERFORMED BY OTHERS: _____

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

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

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

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

	Slope Staking (Y/N)	Grid (Y/N)	Grade (Y/N)	Special Interval
Excavation	✓	-	✓	*
Embankment	✓	-	-	*

- Landscaping
- Top Soil (Section 207)
- Seeding (Section 212)
- Mulching (Section 213)
- Planting (Section 214)
- Herbicide (Section 217)
- Other: _____

- Erosion Control (Section 208)
- Seeding (Temp)
- Silt Fence
- Erosion Bales
- Erosion Logs
- Riprap (Temp)
- Other: _____

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

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

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

Pavements	Grid (Y/N)	Special Interval	Special Offset
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-

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

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

- Riprap (Perm) (Section 506)
- Slope and Ditch Paving (Section 507)

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

Stationing	Left Interval	Center Interval	Right Interval
	-	-	-

- Major Structures - Overhead Signs (Section 614), Concrete Box Culverts, Bridges - and all other structures assigned a structure number
- Structure Excavation limits (Section 206)
- Concrete Box Culverts (Section 603) w/ Headwalls and Wingwalls (Section 601)
- Piling locations and cut off elevations (Section 502)
- Caisson locations and elevations (Section 503)
- Footing locations, alignment, and elevations
- Abutment/Pier locations, alignment, and elevations
- Wingwall skew angles/offsets
- Structural concrete form locations
- Substructure As-constructed survey required for Bridges (Subsection 601.12) and Overhead signs (S-614-50)
- Bridge expansion joint(s) alignment and grade (longitudinal and transverse)
- Deck grades at Girder 10th or "n" th point locations and elevations
- Slope and Ditch Paving (Section 507)
- Other: _____

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

- Delineators (Section 612)
- Temporary
- Permanent

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

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

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

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

NOTE: All 629 items shall include adequate research, calculations, and evaluations of evidence for monuments to be set.
** A Tabulation of Survey Monuments may be provided on the plans.

GENERAL NOTES:

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



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COMPUTER INFORMATION		REVISIONS		AS CONSTRUCTED		PROJECT NO. 335	
CREATION DATE:	07/13/20	(R-1)		NO REVISIONS:		LARIMER COUNTY ROAD 72	
MODIFICATION DATE:	02/01/21	(R-2)		REVISED:		SHEET NO. 10	
FILE LOCATION:	INTEREST PROJECTS\2019 PROJECTS\1421-094-00 LARIMER COUNTY ROAD 72\DWG\ENGINEERING PLANS	(R-3)		VOID:			
FILE NAME:	1421-094-00 SURVEY CONTROL PLAN.DWG	(R-4)					
		(R-5)					



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200 WEST OAK, SUITE 3000
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(970)498-7986 FAX

AS CONSTRUCTED
NO REVISIONS:
REVISED:
VOID:

SURVEY TABULATION

LINE TABLE			
LINE	LENGTH	DIRECTION	START (N,E)
L1	753.45	N18° 35' 40.28"E	N 520216.23, E 89718.69
L2	247.48	N24° 51' 05.61"E	N 521133.16, E 90039.74
L3	338.25	S86° 40' 17.70"E	N 521912.64, E 91070.59
L4	510.16	N17° 15' 42.48"E	N 522787.51, E 92699.87
L5	2153.16	N26° 26' 25.12"E	N 523542.05, E 92958.46
L6	989.98	N68° 41' 56.41"E	N 525936.94, E 94428.03
L7	536.40	N41° 41' 57.50"E	N 526642.97, E 95848.77
L8	734.67	S51° 53' 14.36"E	N 527168.70, E 97610.37
L9	1121.77	S52° 32' 19.85"E	N 526715.25, E 98188.41
L10	249.39	S29° 50' 11.54"E	N 525748.57, E 99327.69
L11	861.67	S77° 23' 44.54"E	N 525073.00, E 100075.03

SURVEY CONTROL NOTES:

OLSSON ASSOCIATED CONDUCTED A FIELD SURVEY ON AUGUST 8-10, 2018 TO OBTAIN POSITIONS ON THIRTY-TWO LOCATIONS. HORIZONTAL DATUM FOR THE SURVEY WAS BASED ON THE STATE PLANE COORDINATE SYSTEM FOR COLORADO NORTH ZONE NAD 83(2011). PROJECT ELEVATIONS ARE GPS DERIVED, USING GEOID 12(B) CONUS, NAVD 88.

THE INITIALIZATION POINT FOR THE SURVEY IS BASED ON THE FOLLOWING NATIONAL GEODETIC SURVEY MONUMENT:

DESIGNATION: U-356

PID: LL0426

STATE/COUNTY: CO/LARIMER

USGS QUAD: WELLINGTON (1978)

NAVD 88 ORTHO HEIGHT: 5284.80 (FEET)

STATE PLANE COORDINATES: GRID NORTH:1502297.76, GRID

EAST: 3119814.61 US SURVEY FEET

PROJECT COORDINATES ARE DERIVED UTILIZING THE PRISMOIDAL FORMULA WITH A TRUNCATION OF 1,000,000 IN THE NORTHING AND 3,000,000 IN THE EASTING

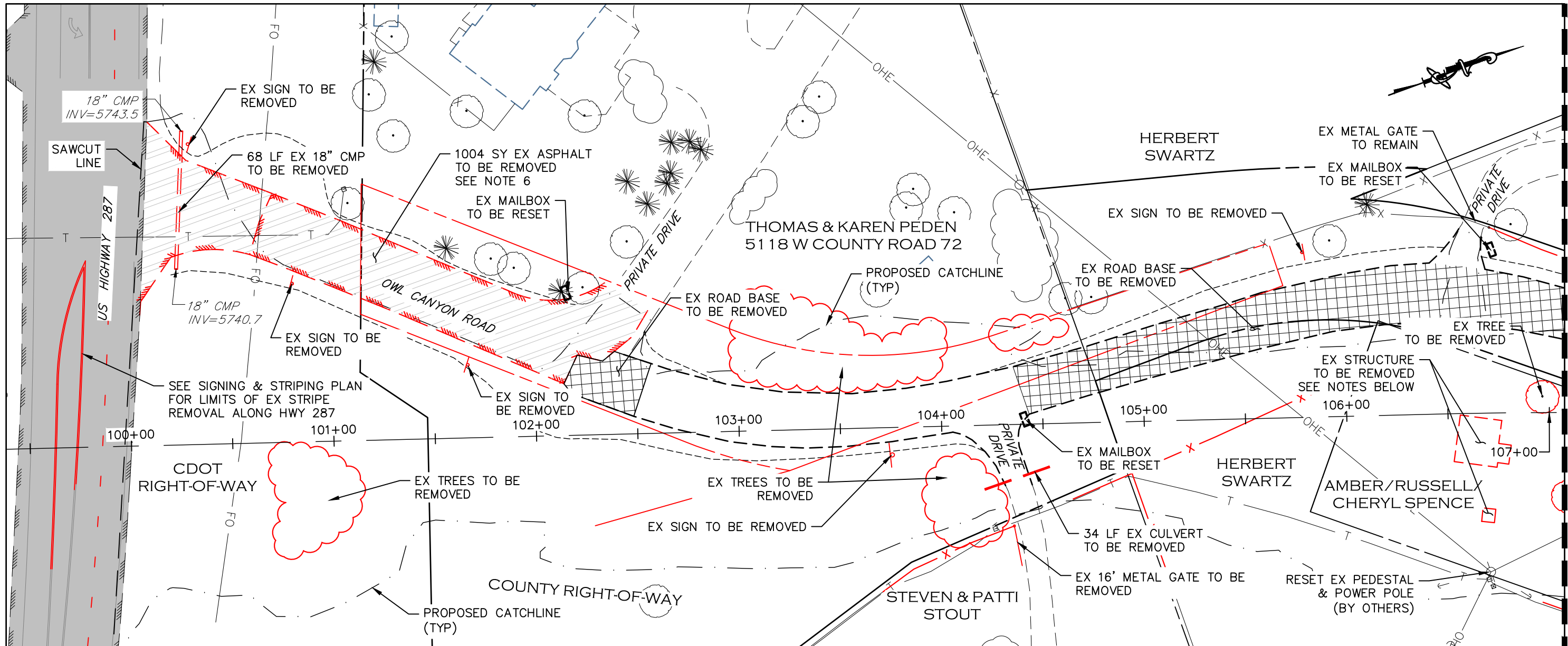
CURVE TABLE						
CURVE	LENGTH	RADIUS	DELTA	CHORD DIRECTION	CHORD LENGTH	START (N,E)
C1	218.41	2000.00	6.26°	S21° 43' 23"W	218.30	N 521133.16, E 90039.74
C2	1147.34	960.00	68.48°	S59° 05' 24"W	1080.26	N 521912.64, E 91070.59
C3	1692.71	1275.00	76.07°	N55° 17' 42"E	1571.10	N 521893.00, E 91408.27
C4	288.35	1800.00	9.18°	S21° 51' 04"W	288.04	N 523542.05, E 92958.46
C5	708.05	960.00	42.26°	S47° 34' 11"W	692.11	N 525936.94, E 94428.03
C6	612.60	1300.00	27.00°	N55° 11' 57"E	606.95	N 526296.57, E 95350.38
C7	1553.44	1030.00	86.41°	S84° 54' 22"W	1410.34	N 527168.70, E 97610.37
C8	380.38	960.00	22.70°	N41° 11' 16"W	377.90	N 525748.57, E 99327.69
C9	796.86	960.00	47.56°	S53° 36' 58"E	774.18	N 525532.24, E 99451.77



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CREATION DATE:	07/13/20	<input type="checkbox"/> R-1			NO REVISIONS:			LARIMER COUNTY ROAD 72
MODIFICATION DATE:	02/01/21	<input type="checkbox"/> R-2			REVISED:			
FILE LOCATION:	INTEREST PROJECTS\2019 PROJECTS\1421-094-00 (LARIMER COUNTY ROAD 72)\DRAWINGS\ENGINEERING PLANS	<input type="checkbox"/> R-3			VOID:			
FILE NAME:	1421-094-00 SURVEY CONTROL PLAN.DWG	<input type="checkbox"/> R-4						
		<input type="checkbox"/> R-5				SHEET NO.	11	

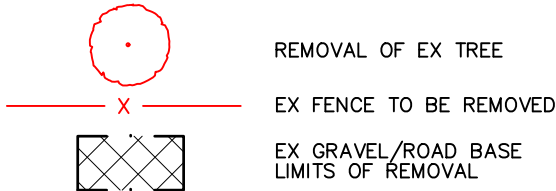
MATCHLINE STA 107+00 SEE SHEET 13



- STRUCTURE REMOVAL NOTES:**
1. SEE TERRACON REPORTS DATED 10/11/2020 AND 11/09/2020 FOR ADDITIONAL INFORMATION
 2. REMOVALS INCLUDE, BUT ARE NOT LIMITED TO, STRUCTURES AND OBSTRUCTIONS, JUNK, AUTO BATTERIES, TOILET VAULT, CAMPER, ETC.
 3. THERE ARE ASBESTOS CONTAINING MATERIALS (ACM) IN THE HOUSE AND CAMPER THAT ARE REQUIRED TO BE ABATED BY A PROPERLY TRAINED AND CERTIFIED ASBESTOS ABATEMENT CONTRACTOR PRIOR TO DEMOLITION/REMOVAL.

- STRUCTURE AND OBSTRUCTION REMOVAL NOTES:**
1. THE WORK FOR THIS PAY ITEM "REMOVAL OF STRUCTURES AND OBSTRUCTIONS" INCLUDES THE REMOVAL OF APPROXIMATELY 144 ROADWAY DELINEATORS (NOT SHOWN ON THE PLANS).

- REMOVAL NOTES:**
1. LIMITS OF STREET CUT ARE APPROXIMATE. FINAL LIMITS ARE TO BE DETERMINED IN THE FIELD BY THE LARIMER COUNTY CONSTRUCTION MANAGER. ALL REPAIRS TO BE IN ACCORDANCE WITH COUNTY STREET REPAIR STANDARDS. ALL SAWCUTTING SHALL BE CONSIDERED INCIDENTAL TO ANY REMOVAL WORK.
 2. EXISTING TREES WITHIN THE WORK ZONE NOT SHOWN TO BE REMOVED SHALL BE PROTECTED IN PLACE. COORDINATE WITH LARIMER COUNTY AS NEEDED.
 3. EXISTING SIGNS SHALL BE REMOVED BY THE CONTRACTOR, SALVAGED FOR RE-USE IF POSSIBLE AND TURNED OVER TO LARIMER COUNTY FORCES. SIGNS WILL BE RESET BY LARIMER COUNTY FORCES.
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 5. UTILITY WORK ASSOCIATED WITH THE OVERHEAD POWER POLES/LINES AND TELECOMMUNICATION FACILITIES ARE TO BE PERFORMED BY THE AFFECTED UTILITY PROVIDER.
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FILE NAME:	1421-094-00 DEMO PLAN.DWG

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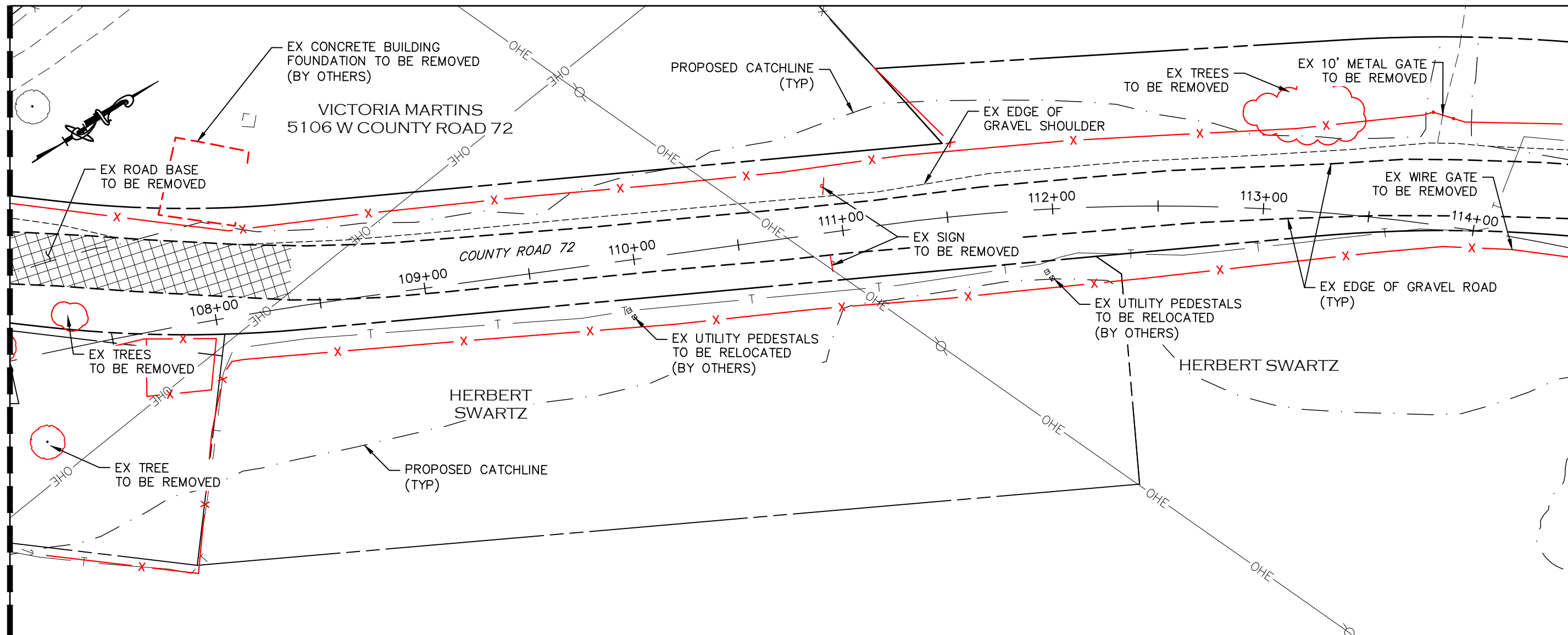
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DEMOLITION PLAN
STATION 100+00 TO 107+00

PROJECT NO. 335
LARIMER COUNTY ROAD 72
SHEET NO. 12

MATCHLINE STA 107+00
SEE SHEET 12

MATCHLINE STA 114+50
SEE SHEET 14



-  REMOVAL OF EX TREE
-  EX FENCE TO BE REMOVED
-  EX GRAVEL/ROAD BASE LIMITS OF REMOVAL

REMOVAL NOTES:

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(R-5)	



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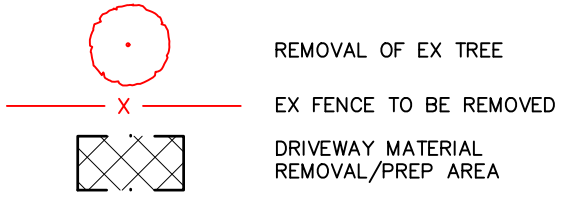
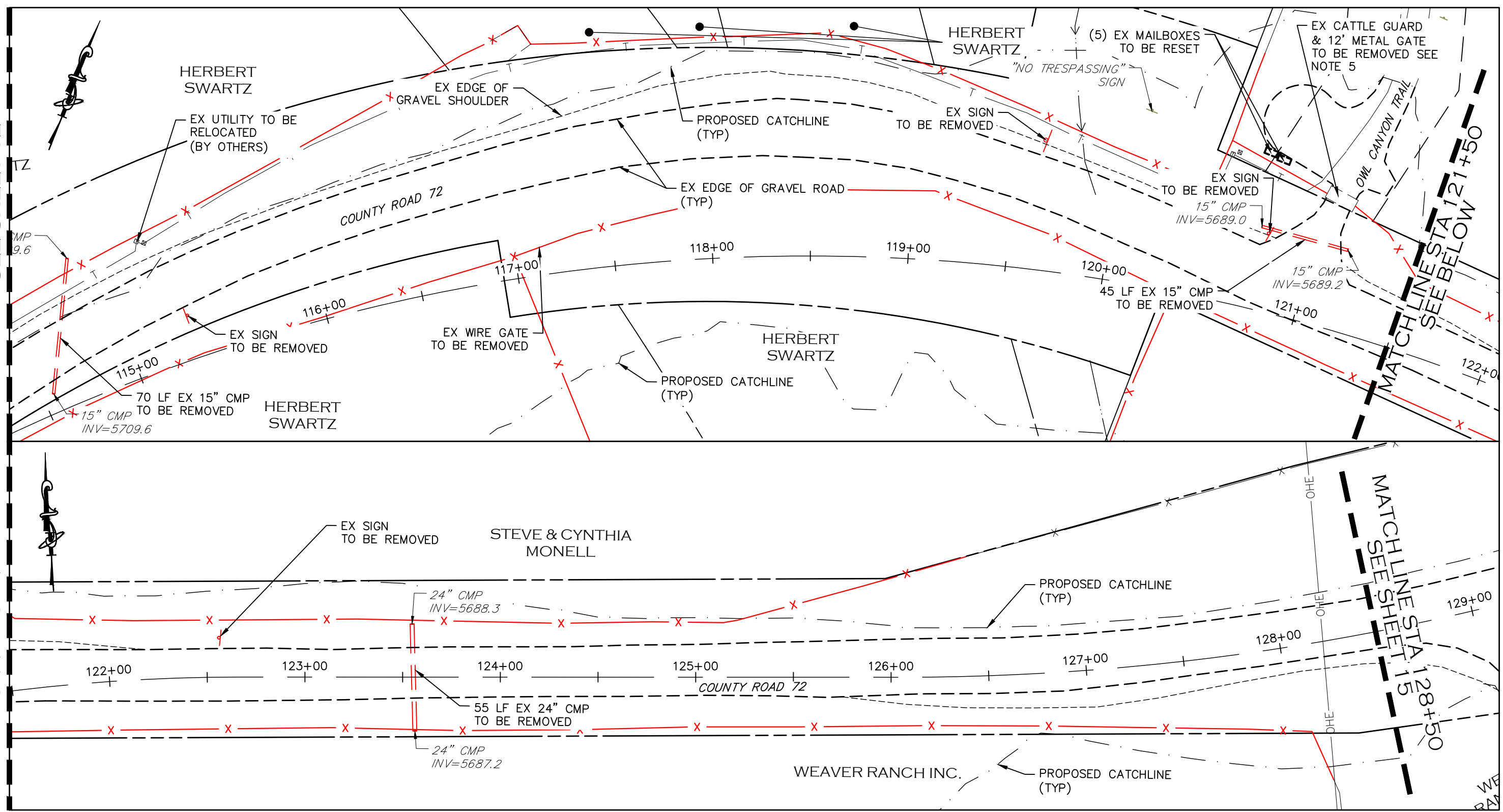
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DEMOLITION PLAN
STATION 107+00 TO 114+50

PROJECT NO. 335
LARIMER COUNTY ROAD 72
SHEET NO. 13

MATCHLINE STA 114+50
SEE SHEET 12

MATCHLINE STA 121+50
SEE ABOVE



REMOVAL NOTES:

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FILE NAME:	1421-094-00 DEMO PLAN.DWG

REVISIONS	
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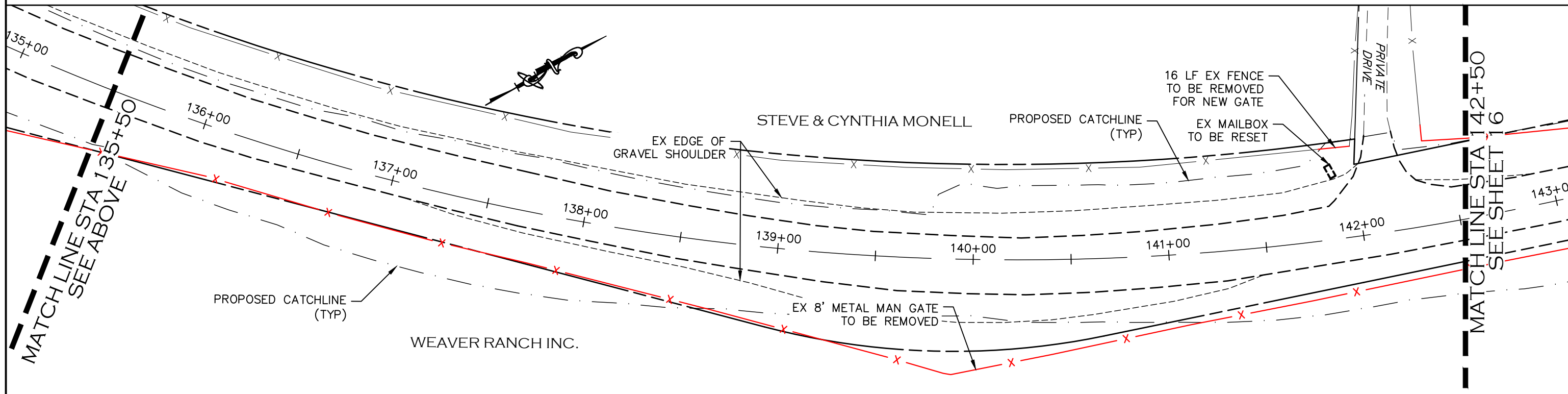
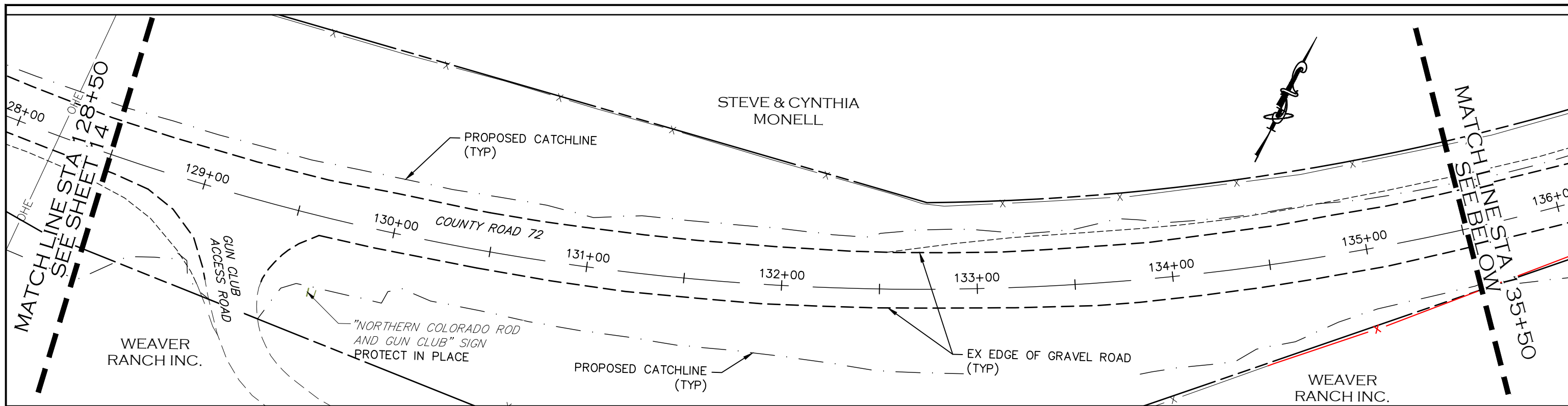





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DEMOLITION PLAN
STATION 114+50 TO 128+50

PROJECT NO. 335
LARIMER COUNTY ROAD 72
SHEET NO. 14



-  REMOVAL OF EX TREE
-  EX FENCE TO BE REMOVED
-  DRIVEWAY MATERIAL REMOVAL/PREP AREA

REMOVAL NOTES:

1. LIMITS OF STREET CUT ARE APPROXIMATE. FINAL LIMITS ARE TO BE DETERMINED IN THE FIELD BY THE LARIMER COUNTY CONSTRUCTION MANAGER. ALL REPAIRS TO BE IN ACCORDANCE WITH COUNTY STREET REPAIR STANDARDS. ALL SAWCUTTING SHALL BE CONSIDERED INCIDENTAL TO ANY REMOVAL WORK.
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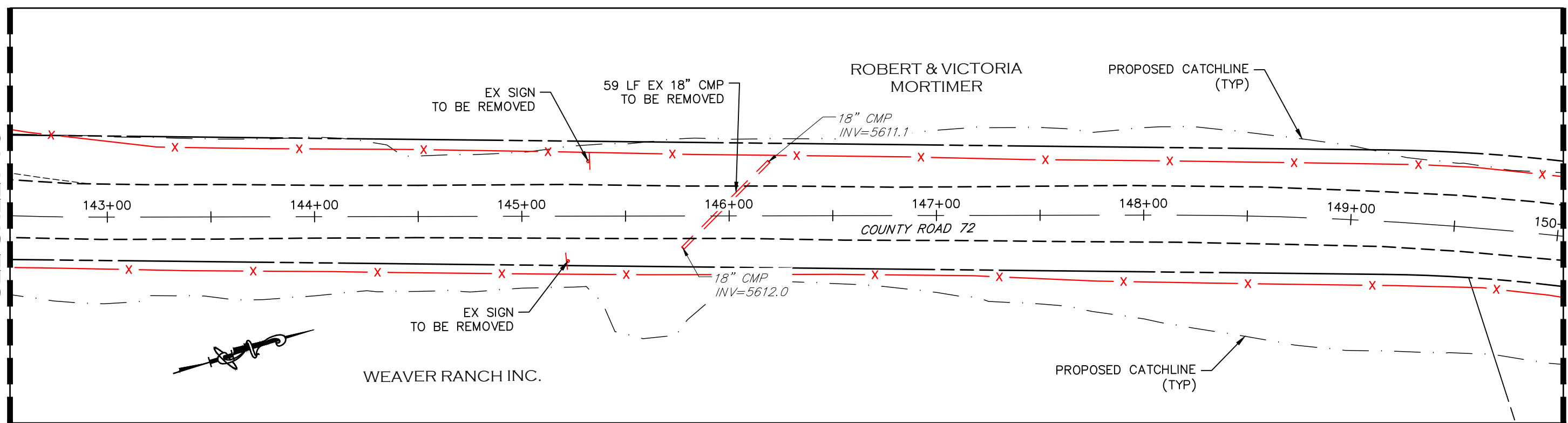
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DEMOLITION PLAN
STATION 128+50 TO 142+50

PROJECT NO. 335
LARIMER COUNTY ROAD 72
SHEET NO. 15

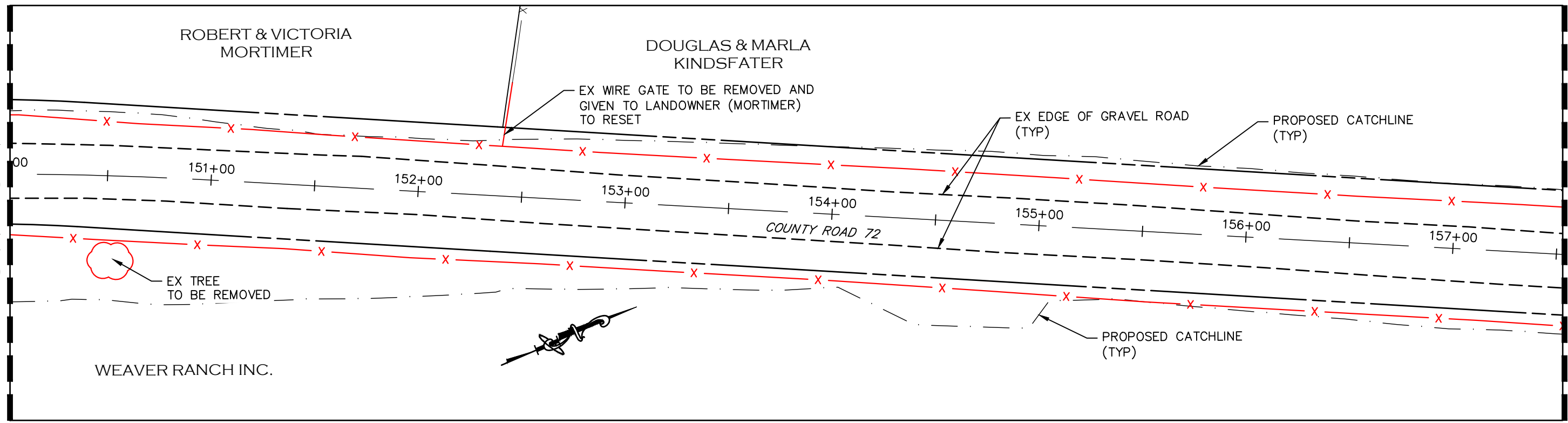
MATCHLINE STA 142+50
SEE SHEET 15




MATCHLINE STA 150+00
SEE BELOW



MATCHLINE STA 150+00
SEE ABOVE

MATCHLINE STA 157+50
SEE SHEET 17



-  REMOVAL OF EX TREE
-  EX FENCE TO BE REMOVED
-  DRIVEWAY MATERIAL REMOVAL/PREP AREA

REMOVAL NOTES:

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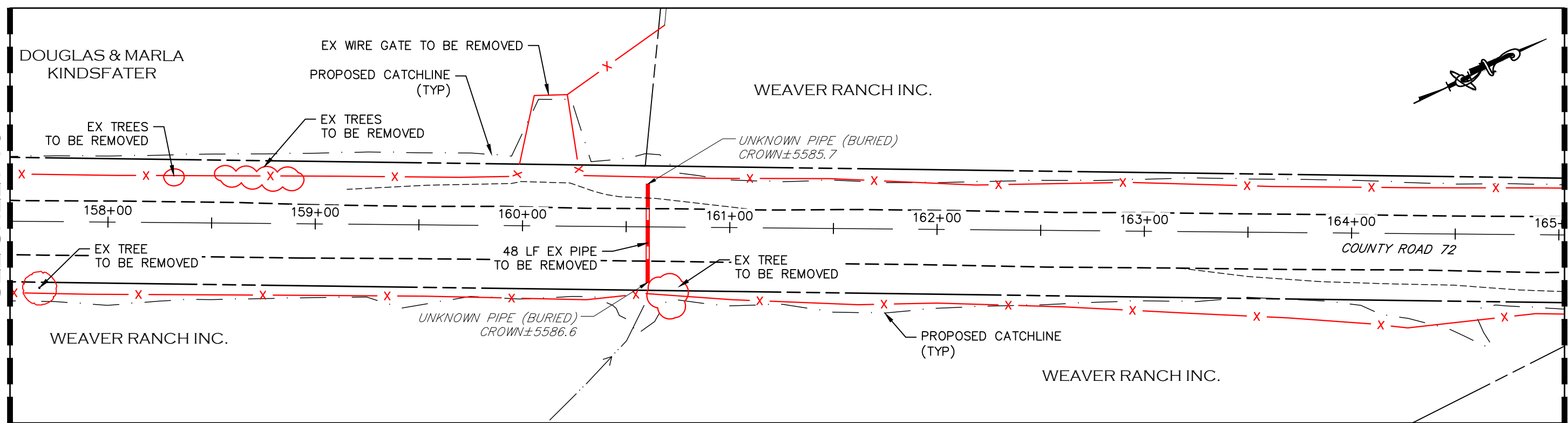
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DEMOLITION PLAN
STATION 142+50 TO 157+50

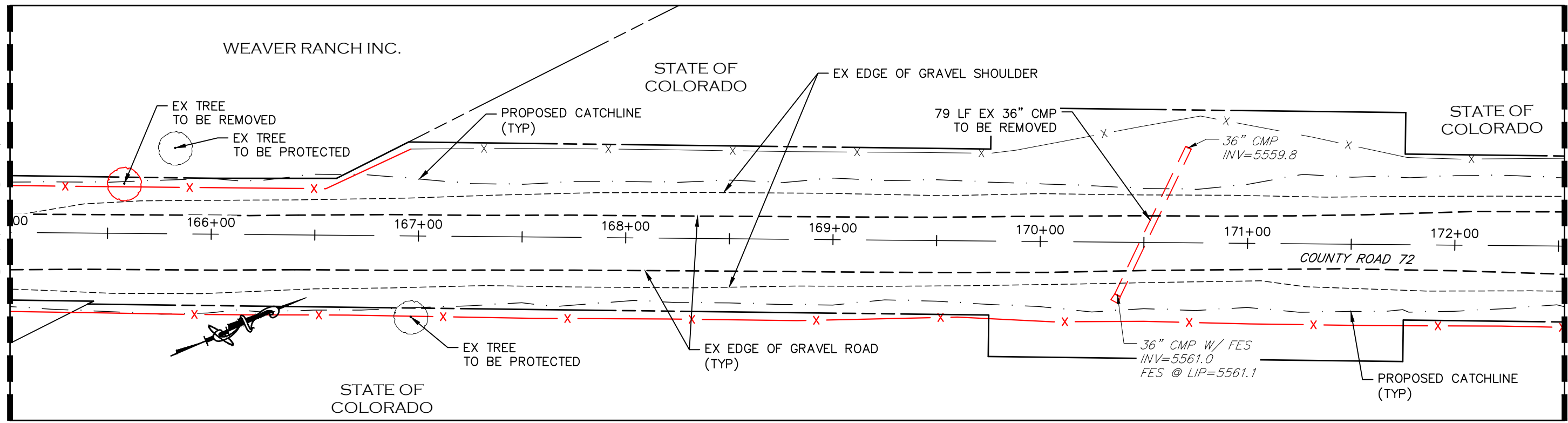
PROJECT NO. 335
LARIMER COUNTY ROAD 72
SHEET NO. 16

MATCHLINE STA 157+50
SEE SHEET 16






MATCHLINE STA 165+00
SEE BELOW

MATCHLINE STA 165+00
SEE ABOVE



MATCHLINE STA 172+50
SEE SHEET 18



-  REMOVAL OF EX TREE
-  EX FENCE TO BE REMOVED
-  DRIVEWAY MATERIAL REMOVAL/PREP AREA

REMOVAL NOTES:

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BEFORE YOU DIG, GRADE, OR EXCAVATE
FOR THE MARKING OF UNDERGROUND
MEMBER UTILITIES.

COMPUTER INFORMATION	
CREATION DATE:	07/13/20
MODIFICATION DATE:	02/01/21
FILE LOCATION:	INTEREST PROJECTS\2019 PROJECTS\1421-094-00 (LARIMER COUNTY ROAD 72)\DRAWINGS\ENGINEERING PLANS
FILE NAME:	1421-094-00 DEMO PLAN.DWG

REVISIONS	
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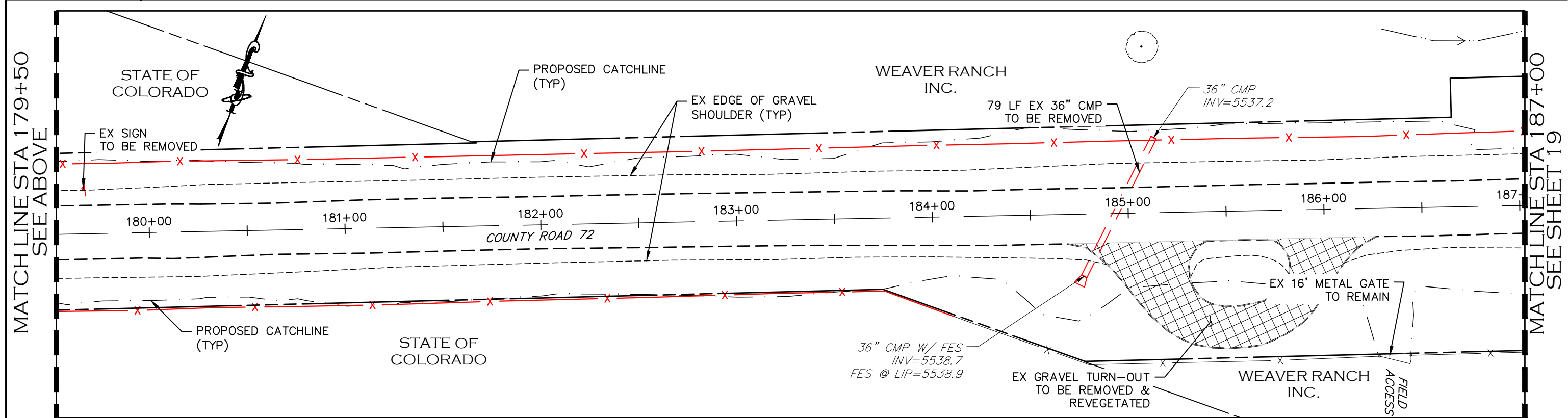
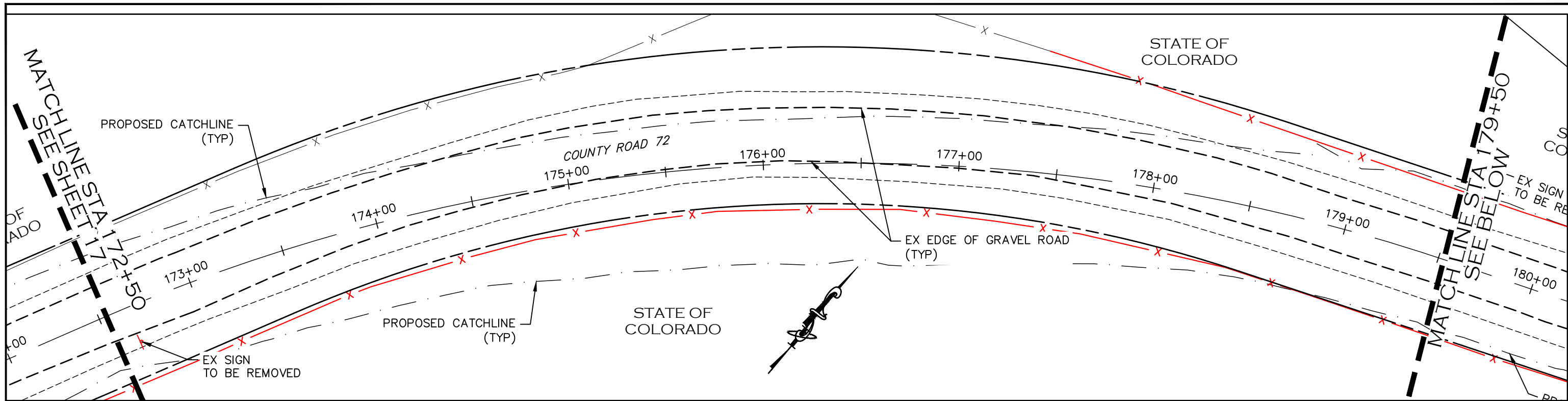



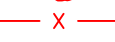

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POST OFFICE BOX 1190
FORT COLLINS, COLORADO 80522-1190
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(970)498-7986 FAX

AS CONSTRUCTED
NO REVISIONS:
REVISED:
VOID:

DEMOLITION PLAN
STATION 157+50 TO 172+50

PROJECT NO. 335
LARIMER COUNTY ROAD 72
SHEET NO. 17



-  REMOVAL OF EX TREE
-  EX FENCE TO BE REMOVED
-  DRIVEWAY MATERIAL REMOVAL/PREP AREA


REMOVAL NOTES:

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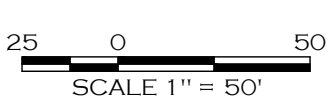
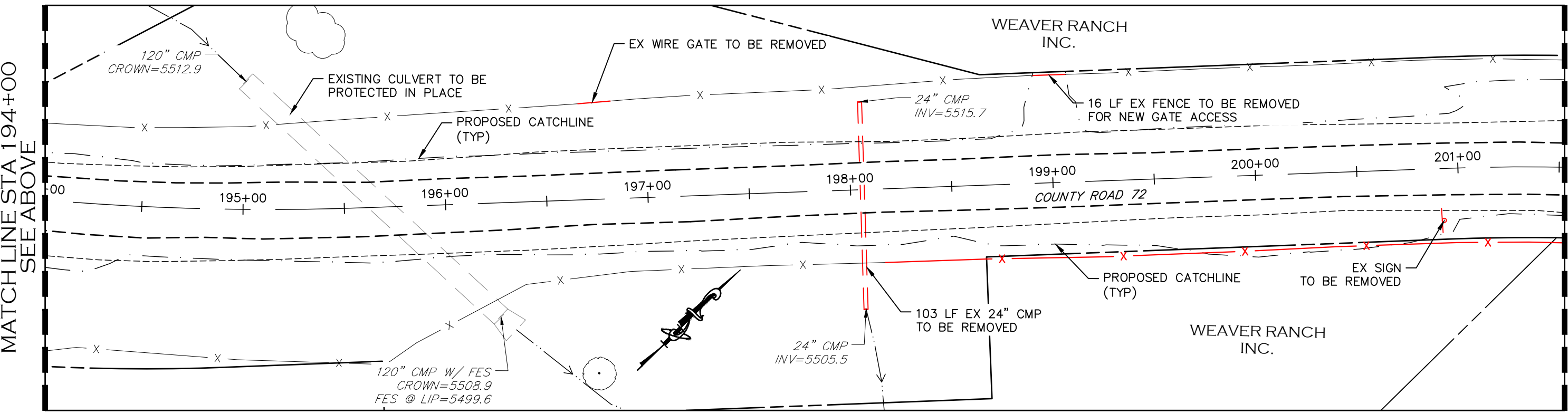
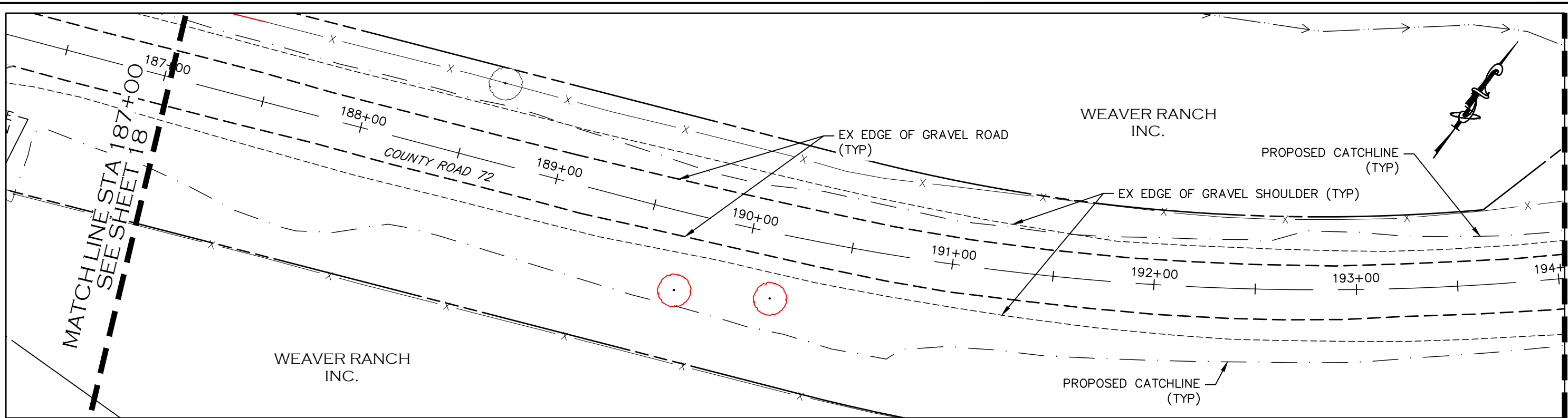





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DEMOLITION PLAN
STATION 172+50 TO 187+00

PROJECT NO. 335
LARIMER COUNTY ROAD 72
SHEET NO. 18



-  REMOVAL OF EX TREE
-  EX FENCE TO BE REMOVED
-  DRIVEWAY MATERIAL REMOVAL/PREP AREA

REMOVAL NOTES:

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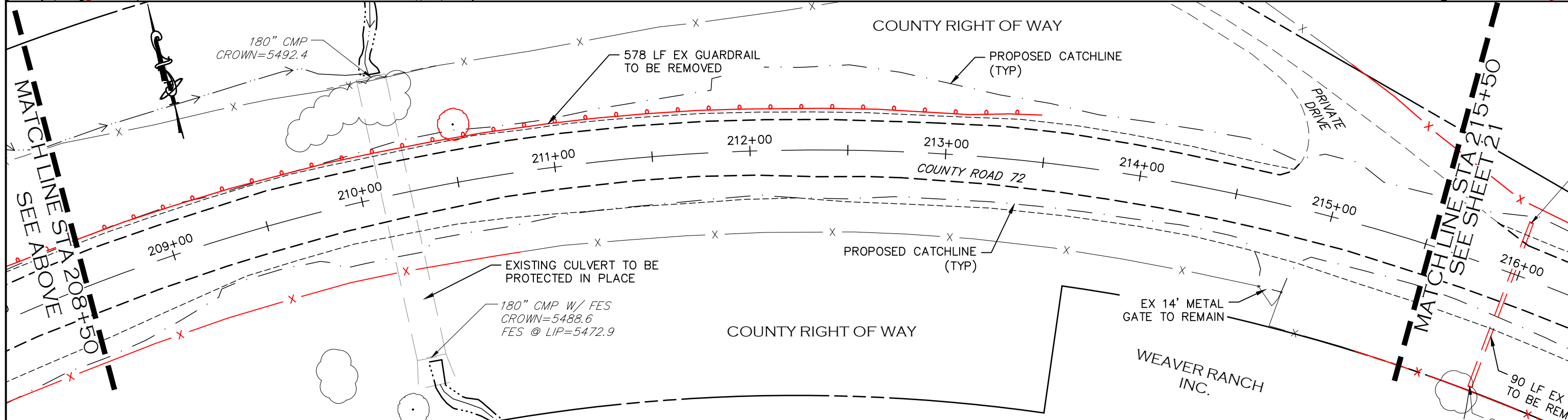
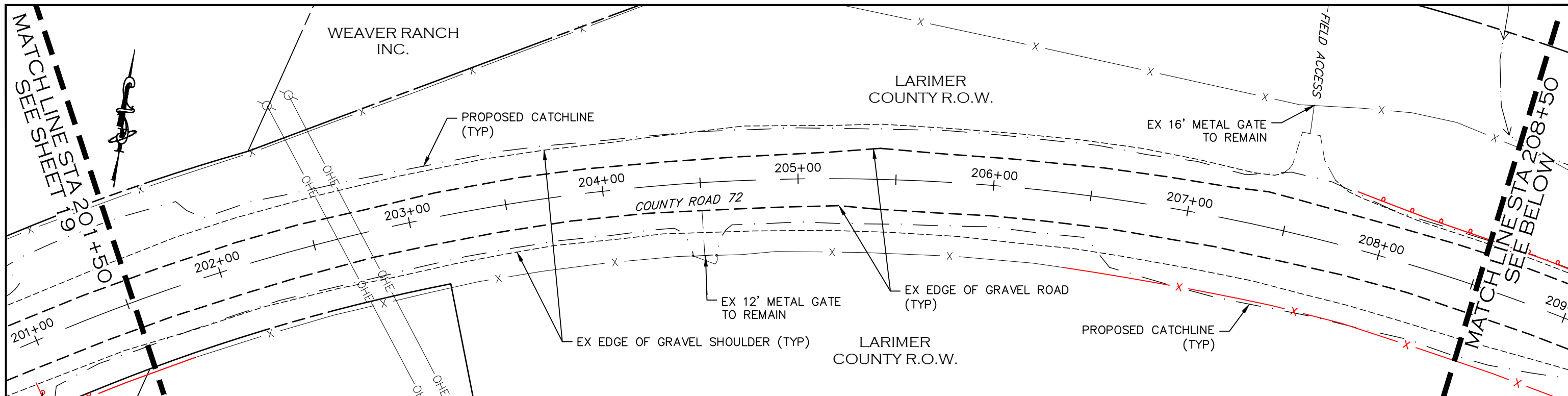


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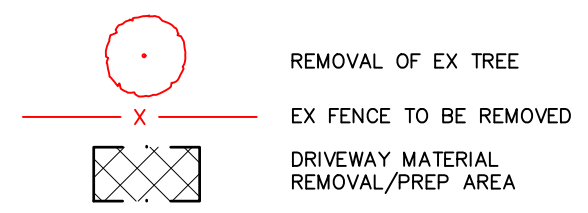
DEMOLITION PLAN
STATION 187+00 TO 201+00

PROJECT NO. 335
LARIMER COUNTY ROAD 72
SHEET NO. 19



REMOVAL NOTES:

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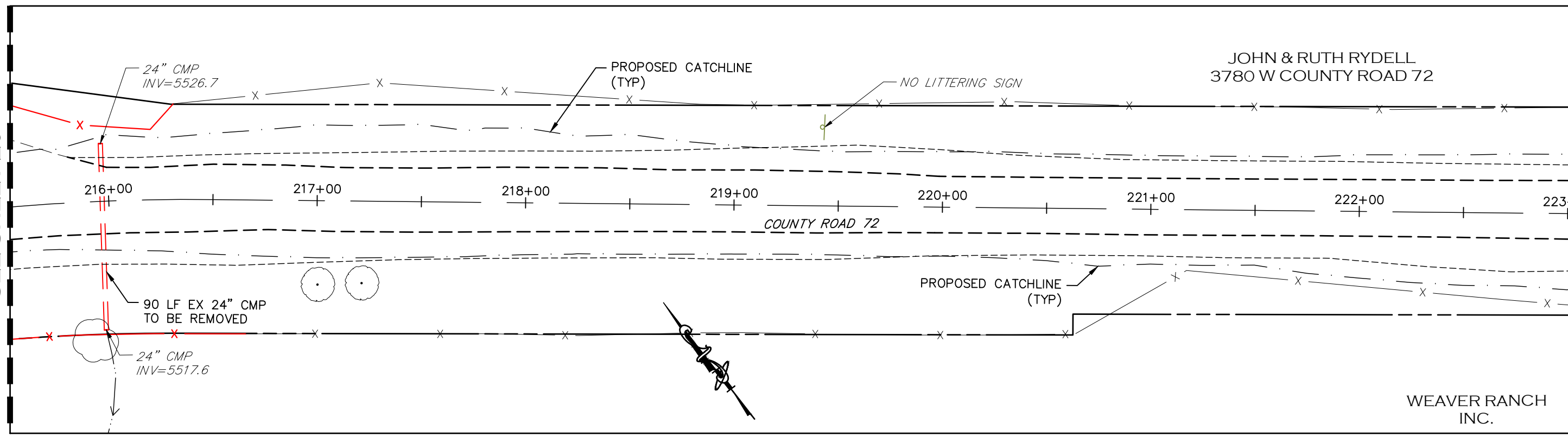
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DEMOLITION PLAN
STATION 201+50 TO 215+50

PROJECT NO. 335
LARIMER COUNTY ROAD 72
SHEET NO. 20

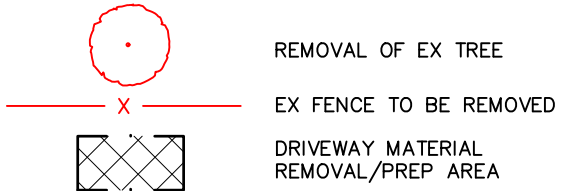
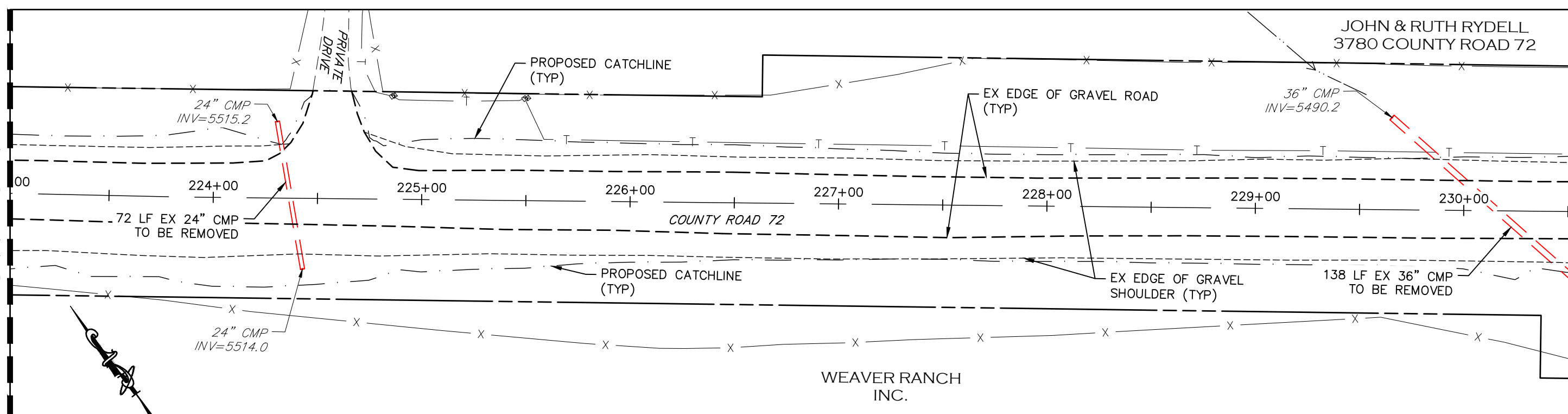
MATCHLINE STA 215+50
SEE SHEET 20

MATCHLINE STA 223+00
SEE BELOW



MATCHLINE STA 223+00
SEE ABOVE

MATCHLINE STA 230+50
SEE SHEET 22



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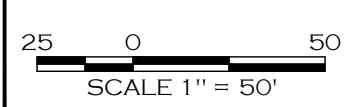
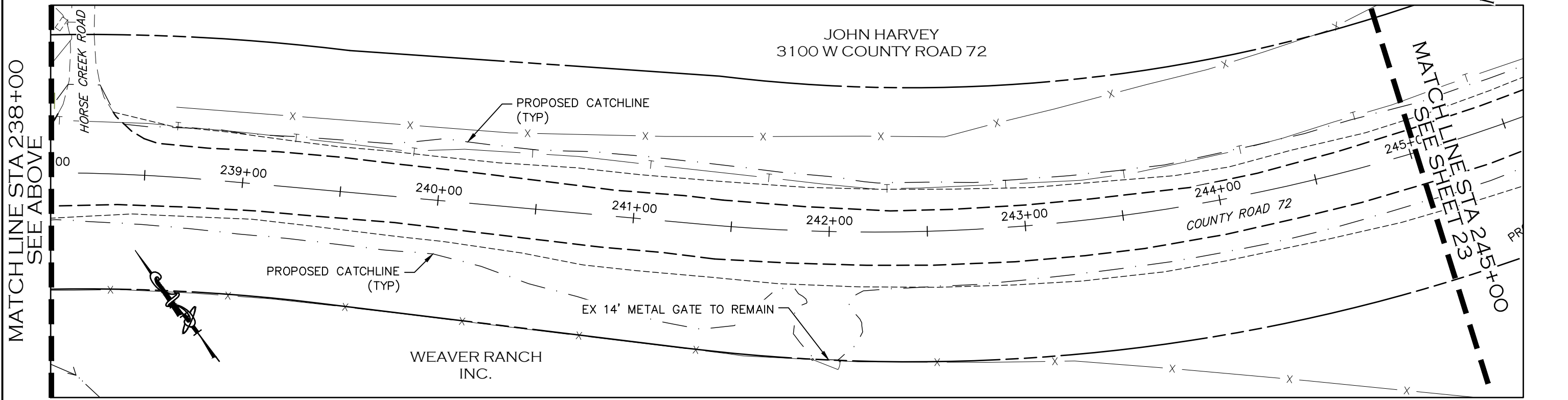
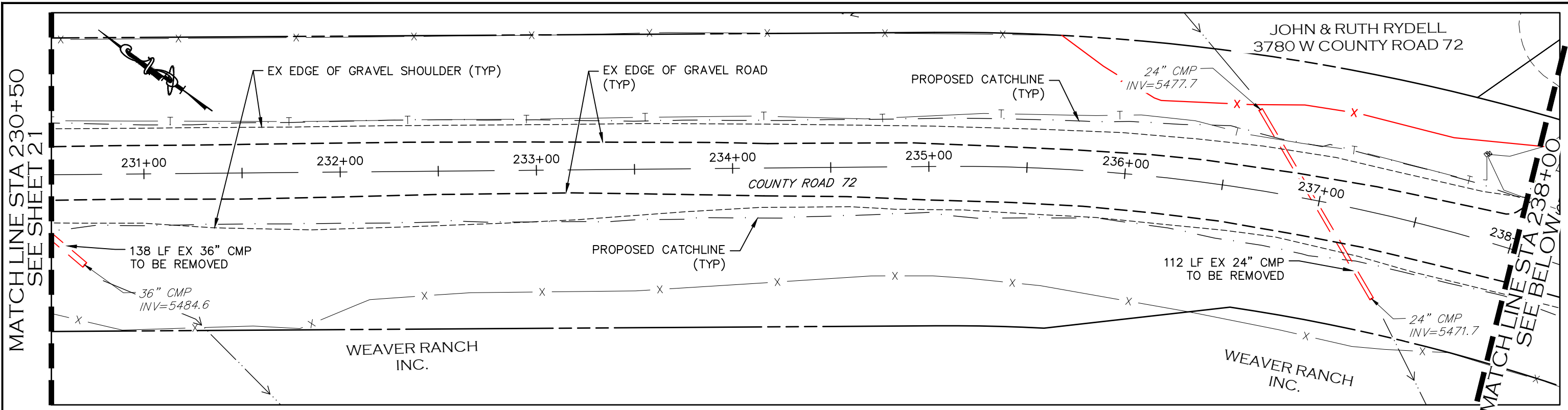



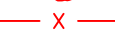

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DEMOLITION PLAN
STATION 215+50 TO 230+50

PROJECT NO. 335
LARIMER COUNTY ROAD 72
SHEET NO. 21



-  REMOVAL OF EX TREE
-  EX FENCE TO BE REMOVED
-  DRIVEWAY MATERIAL REMOVAL/PREP AREA

- REMOVAL NOTES:**
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FILE NAME:	1421-094-00 DEMO PLAN.DWG

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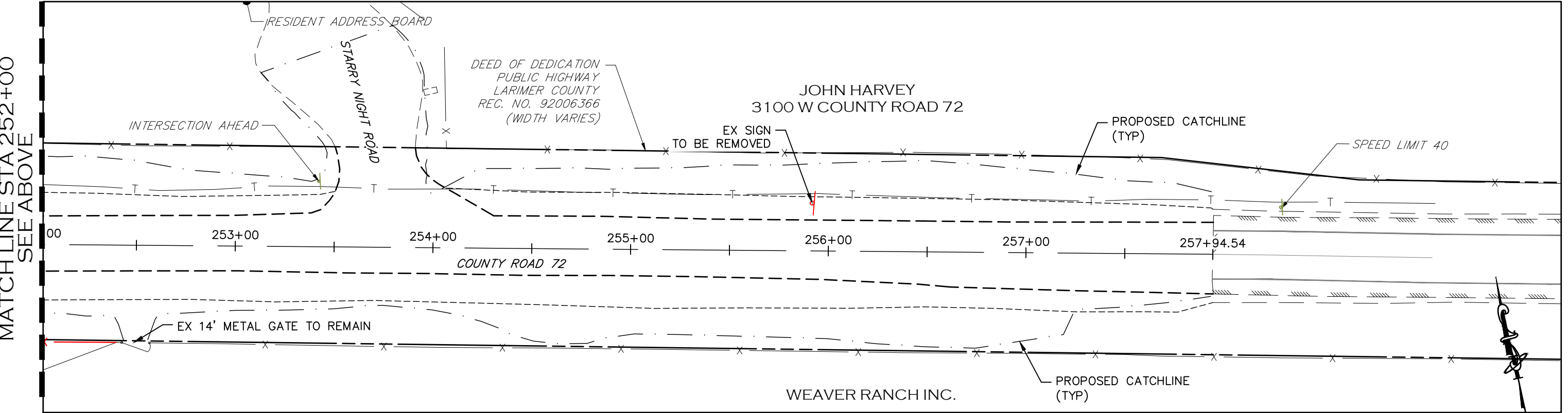
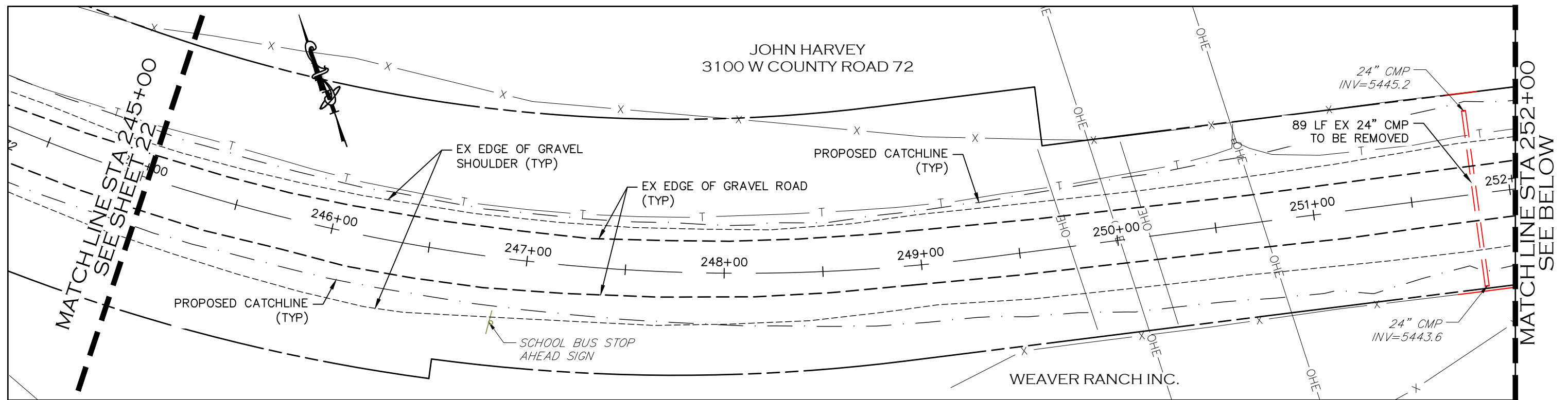





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DEMOLITION PLAN
STATION 230+50 TO 245+00

PROJECT NO. 335
LARIMER COUNTY ROAD 72
SHEET NO. 22



-  REMOVAL OF EX TREE
-  EX FENCE TO BE REMOVED
-  DRIVEWAY MATERIAL REMOVAL/PREP AREA

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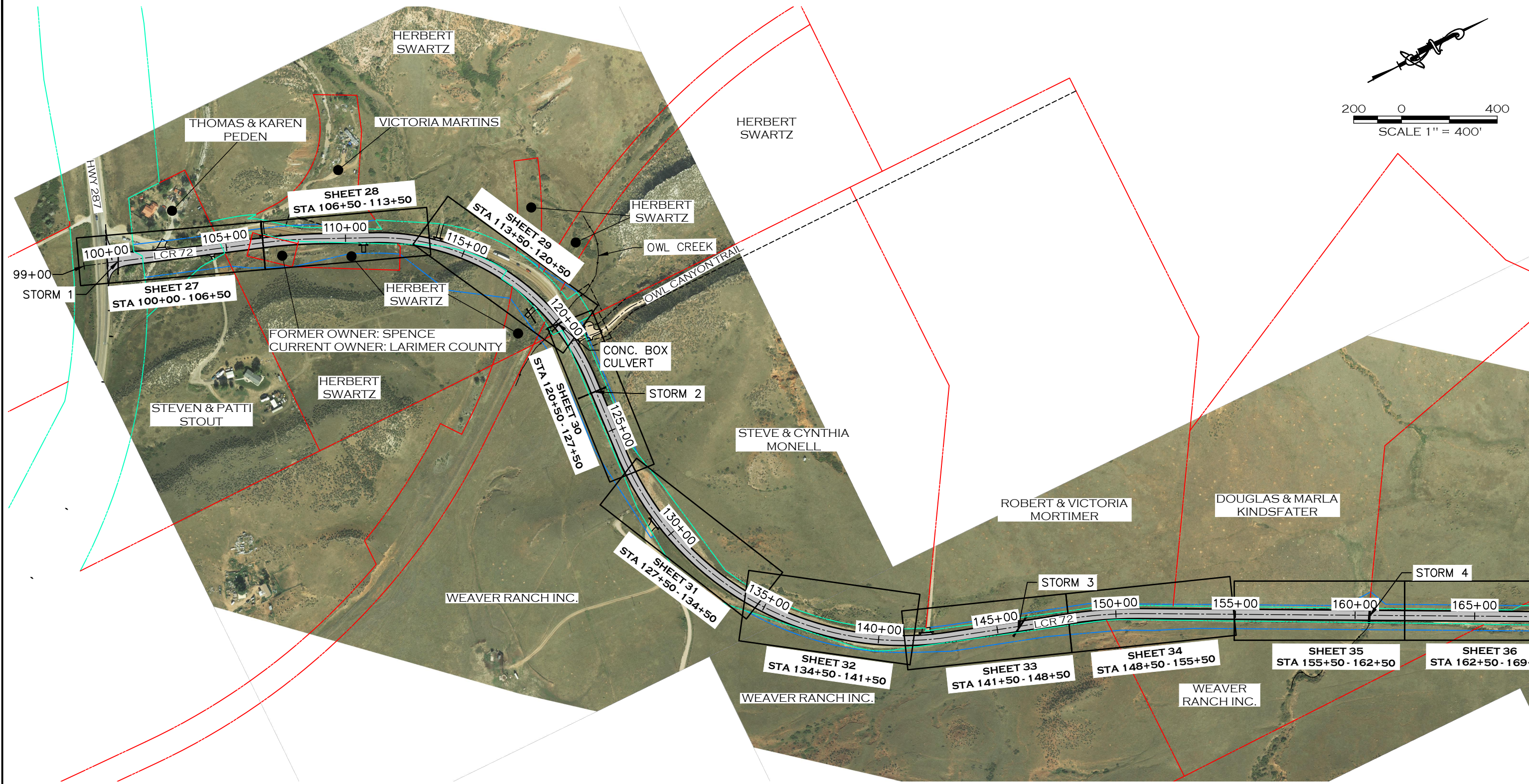
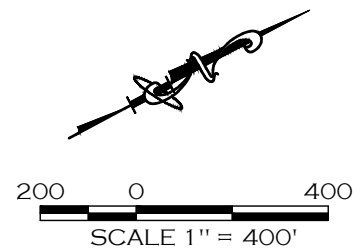
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LARIMER COUNTY ENGINEERING DEPARTMENT
200 WEST OAK, SUITE 3000
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AS CONSTRUCTED
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VOID:

DEMOLITION PLAN
STATION 245+00 TO 258+00

PROJECT NO. 335
LARIMER COUNTY ROAD 72
SHEET NO. 23



CALL UTILITY NOTIFICATION
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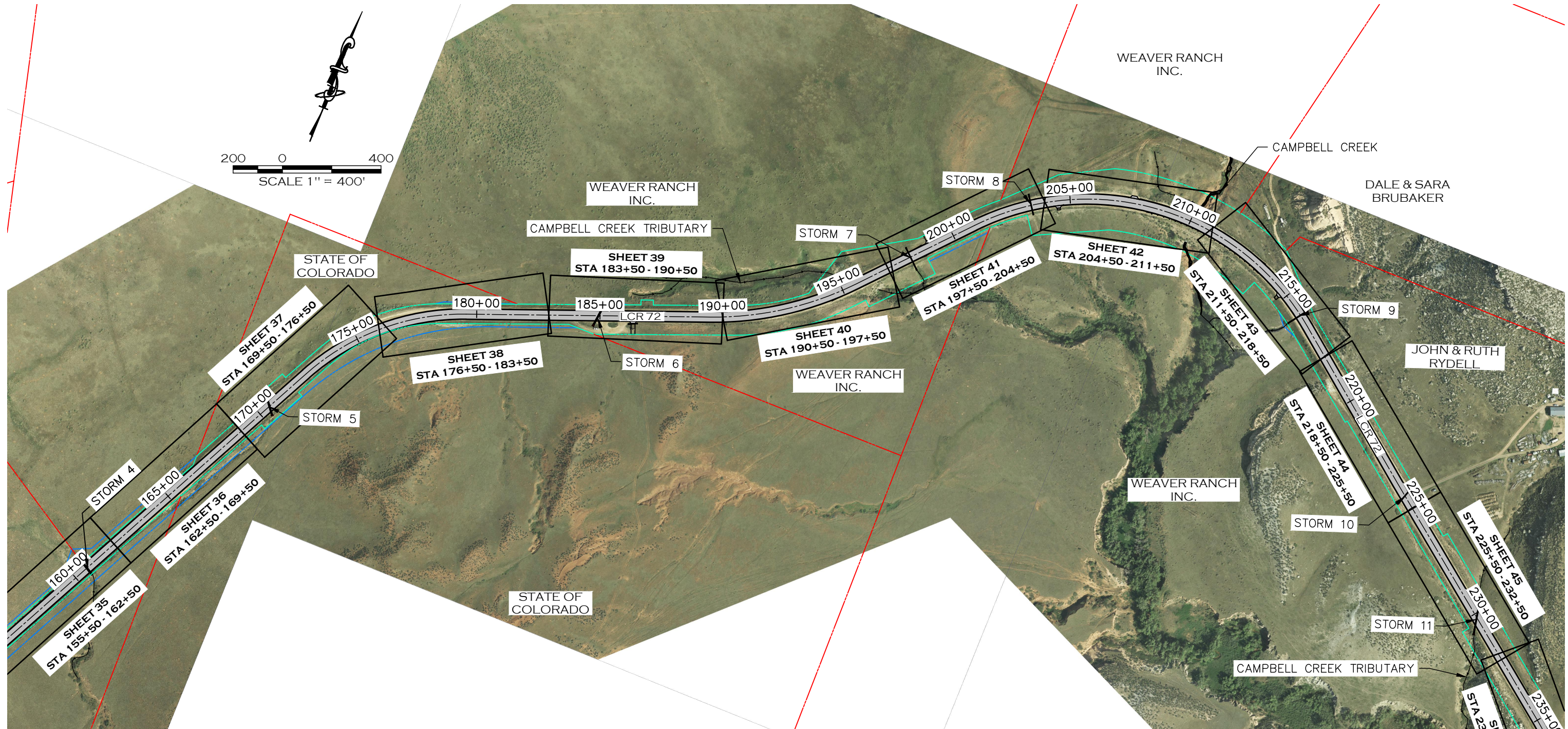
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AS CONSTRUCTED
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VOID:

PLAN & PROFILE KEY MAP

PROJECT NO. 335
LARIMER COUNTY ROAD 72
SHEET NO. 24



— PROPOSED RIGHT-OF-WAY
— EXISTING RIGHT-OF-WAY
— EXISTING PROPERTY LINE

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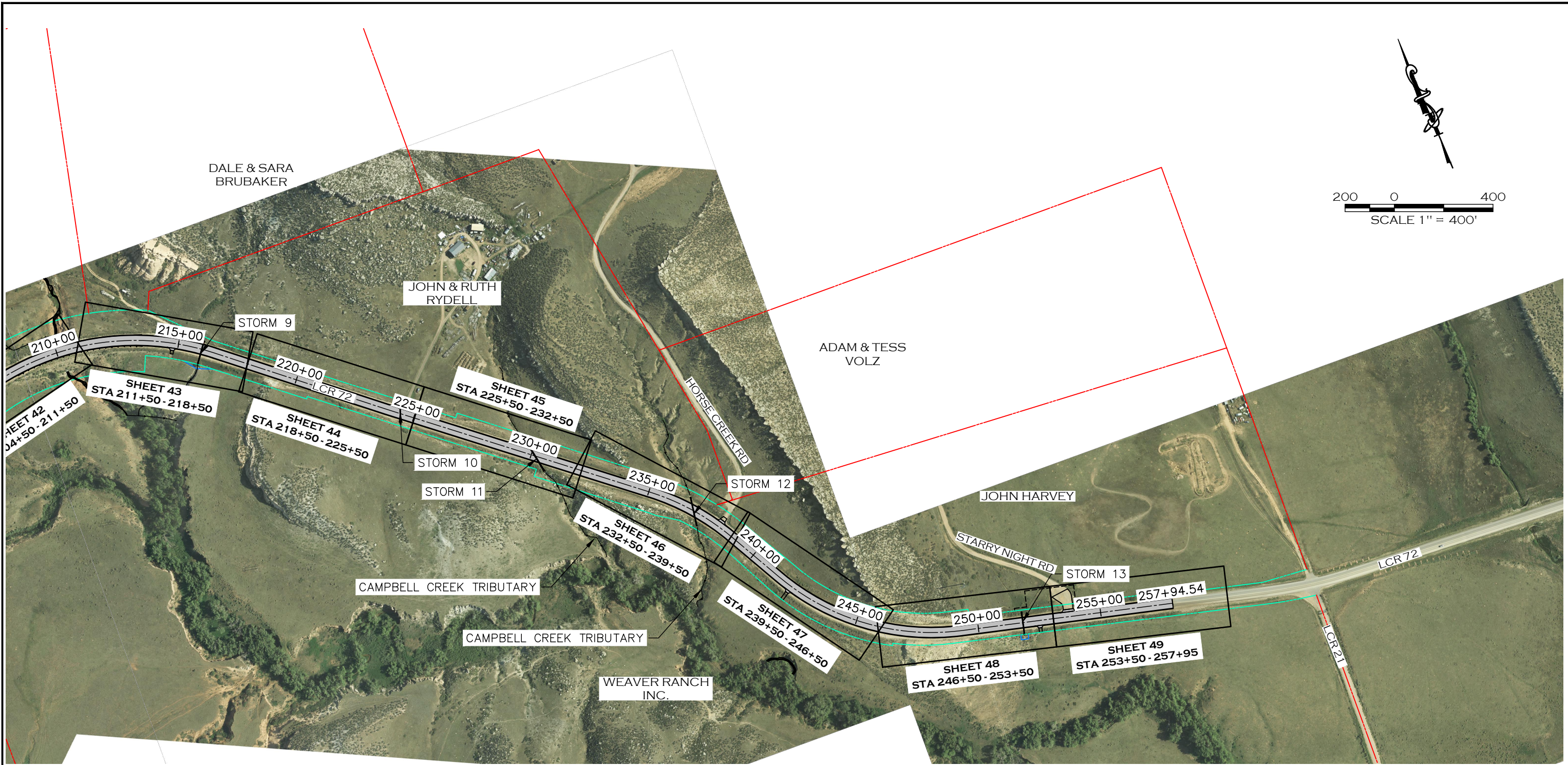
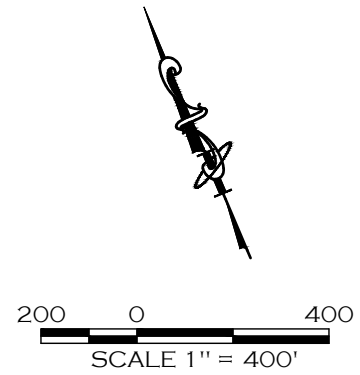


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PLAN & PROFILE KEY MAP

PROJECT NO. 335
LARIMER COUNTY ROAD 72
SHEET NO. 25



——— PROPOSED RIGHT-OF-WAY
——— EXISTING RIGHT-OF-WAY
——— EXISTING PROPERTY LINE

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(R-5)	

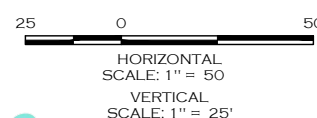
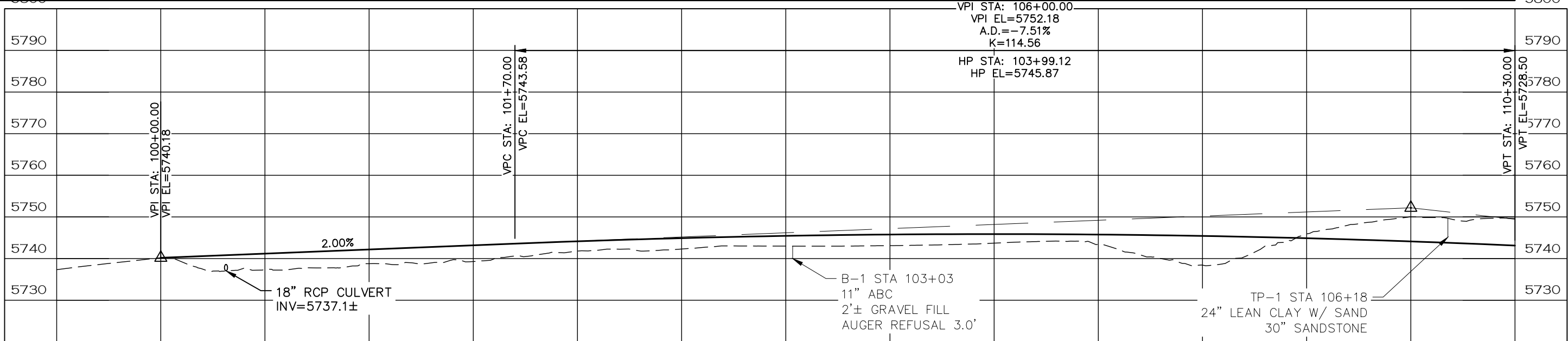
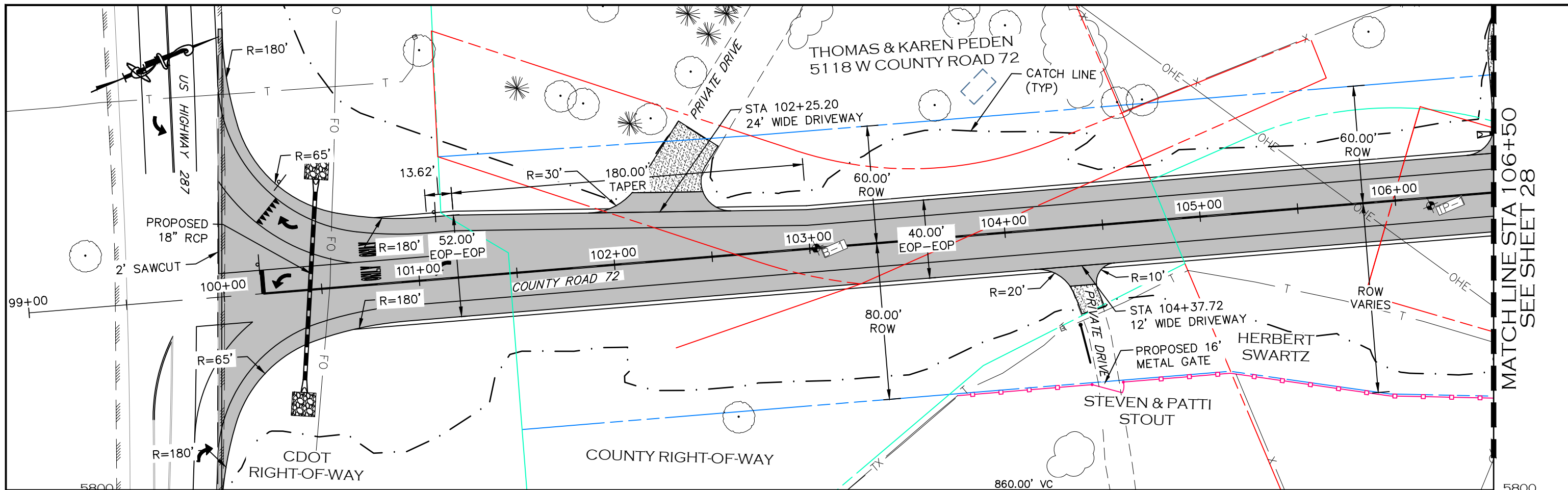


LARIMER COUNTY
ENGINEERING DEPARTMENT
 200 WEST OAK, SUITE 3000
 POST OFFICE BOX 1190
 FORT COLLINS, COLORADO 80522-1190
 (970)498-5700
 (970)498-7986 FAX

AS CONSTRUCTED
NO REVISIONS:
REVISED:
VOID:

PLAN & PROFILE KEY MAP

PROJECT NO. 335
LARIMER COUNTY ROAD 72
SHEET NO. 26



NOTE

1. ALL DRIVEWAY RADII ARE 15 FEET UNLESS OTHERWISE NOTED.
2. PROPOSED FENCE TO BE SET ON PROPOSED ROW. FENCES SHOWN 1' OFF PROPOSED ROW FOR GRAPHICAL PURPOSES.
3. STA 105+45 TO STA 108+00: EXCAVATIONS PENETRATING THE CEMENTED SANDSTONE BEDROCK FORMATION AT INCREASED DEPTHS MAY REQUIRE THE USE OF SPECIALIZED HEAVY-DUTY EQUIPMENT TO FACILITATE ROCK BREAK-UP AND REMOVAL.

- PROPOSED FENCE
- — — — — TEMPORARY CONSTRUCTION EASEMENT
- — — — — PROPOSED RIGHT-OF-WAY
- — — — — EXISTING RIGHT-OF-WAY
- — — — — EXISTING PROPERTY LINE

CALL UTILITY NOTIFICATION CENTER OF COLORADO
 811
 CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

COMPUTER INFORMATION	
CREATION DATE:	07/13/20
MODIFICATION DATE:	02/01/21
FILE LOCATION:	INTEREST PROJECTS\2019 PROJECTS\1421-094-00 (LARIMER COUNTY ROAD 72)\DRAWINGS\ENGINEERING PLANS
FILE NAME:	1421-094-00 P&P.DWG

REVISIONS	
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(R-2)	
(R-3)	
(R-4)	
(R-5)	

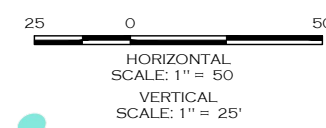
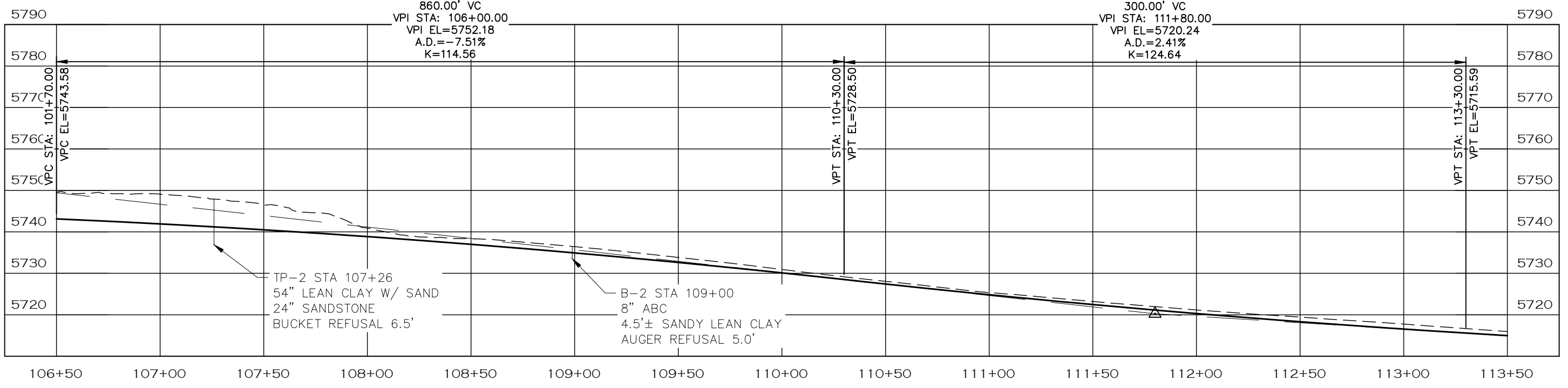
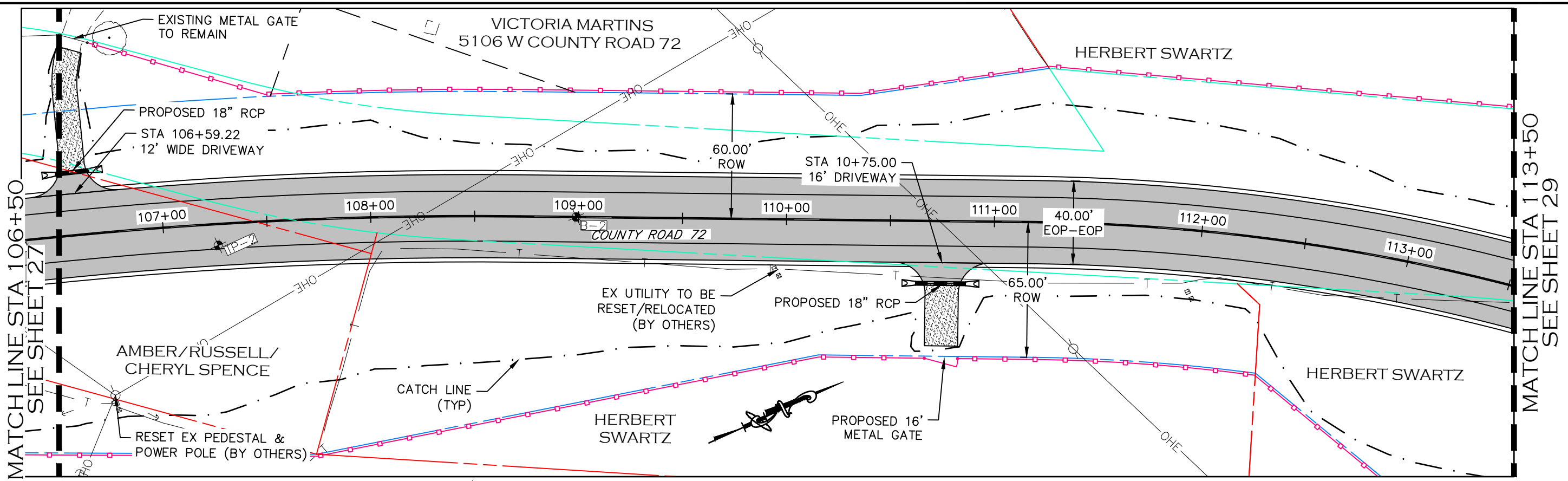


ENGINEERING DEPARTMENT
 200 WEST OAK, SUITE 3000
 POST OFFICE BOX 1190
 FORT COLLINS, COLORADO 80522-1190
 (970)498-5700
 (970)498-7986 FAX

AS CONSTRUCTED
NO REVISIONS:
REVISED:
VOID:

PLAN & PROFILE
STATION 100+00 TO 106+50

PROJECT NO. 335
LARIMER COUNTY ROAD 72
SHEET NO. 27

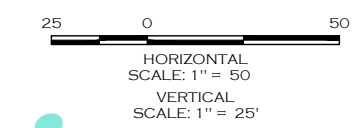
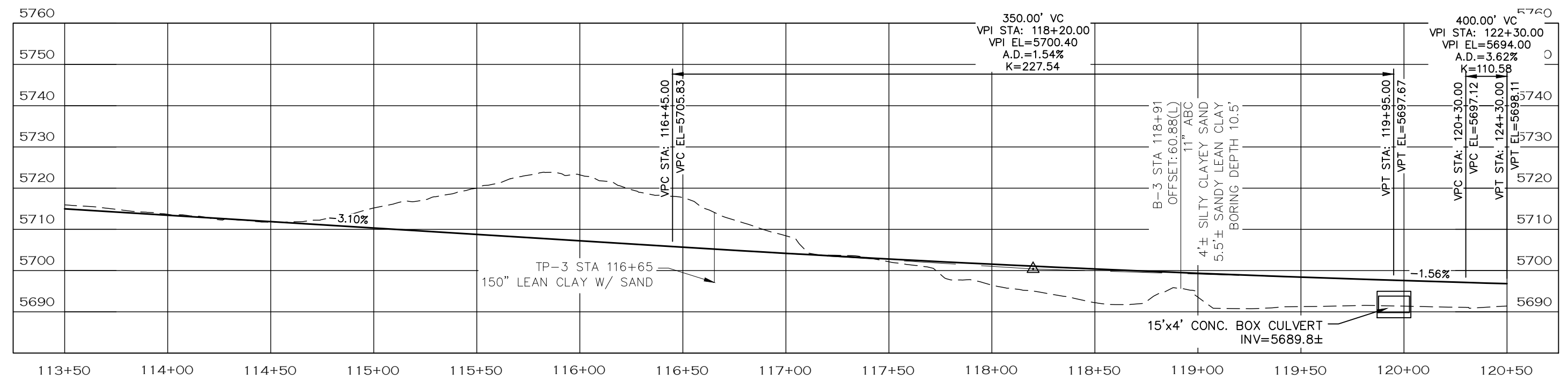
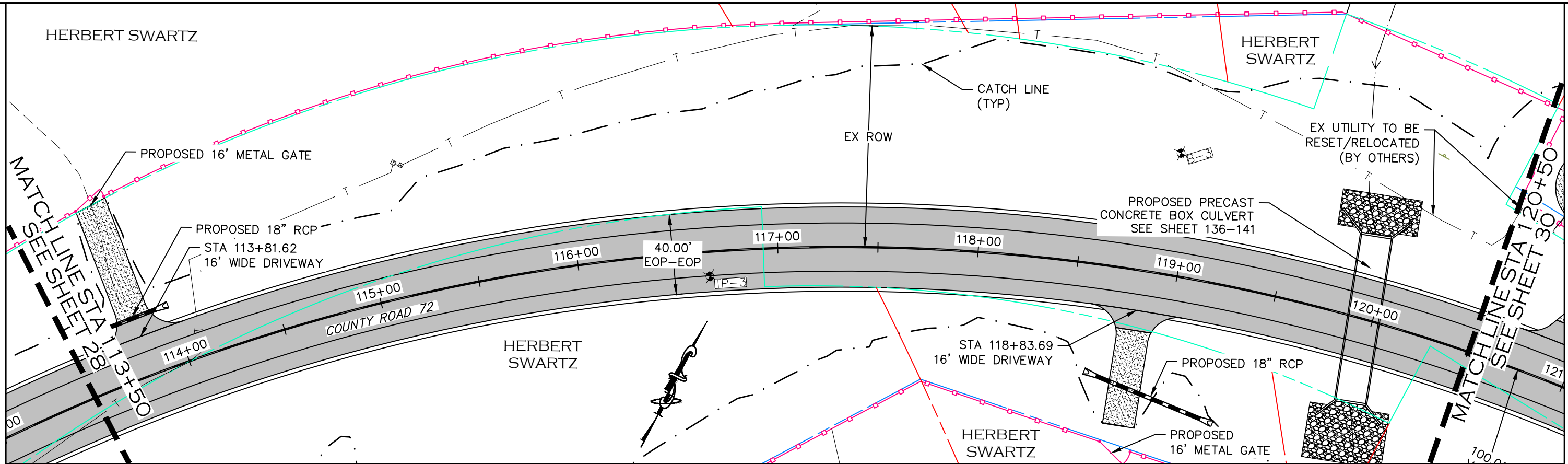


- NOTE**
- ALL DRIVEWAY RADII ARE 15 FEET UNLESS OTHERWISE NOTED.
 - PROPOSED FENCE TO BE SET ON PROPOSED ROW. FENCES SHOWN 1' OFF PROPOSED ROW FOR GRAPHICAL PURPOSES.
 - STA 105+45 TO STA 108+00: EXCAVATIONS PENETRATING THE CEMENTED SANDSTONE BEDROCK FORMATION AT INCREASED DEPTHS MAY REQUIRE THE USE OF SPECIALIZED HEAVY-DUTY EQUIPMENT TO FACILITATE ROCK BREAK-UP AND REMOVAL.

- PROPOSED FENCE
- TEMPORARY CONSTRUCTION EASEMENT
- PROPOSED RIGHT-OF-WAY
- EXISTING RIGHT-OF-WAY
- EXISTING PROPERTY LINE

CALL UTILITY NOTIFICATION CENTER OF COLORADO
811
CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

COMPUTER INFORMATION		REVISIONS			AS CONSTRUCTED		PLAN & PROFILE STATION 106+50 TO 113+50	PROJECT NO. 335	
CREATION DATE:	07/13/20	(R-1)			NO REVISIONS:			LARIMER COUNTY ROAD 72	
MODIFICATION DATE:	02/01/21	(R-2)			REVISED:			SHEET NO. 28	
FILE LOCATION:	INTERNET PROJECTS\2019 PROJECTS\1421-094-00 (AMBER COUNTY ROAD 72)\DRAWINGS\ENGINEERING PLANS	(R-3)			VOID:				
FILE NAME:	1421-094-00 P&P.DWG	(R-4)							



NOTE

1. ALL DRIVEWAY RADII ARE 15 FEET UNLESS OTHERWISE NOTED.
2. PROPOSED FENCE TO BE SET ON PROPOSED ROW. FENCES SHOWN 1' OFF PROPOSED ROW FOR GRAPHICAL PURPOSES.

- PROPOSED FENCE
- - - - - TEMPORARY CONSTRUCTION EASEMENT
- - - - - PROPOSED RIGHT-OF-WAY
- - - - - EXISTING RIGHT-OF-WAY
- - - - - EXISTING PROPERTY LINE

CALL UTILITY NOTIFICATION CENTER OF COLORADO
811
 CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

COMPUTER INFORMATION	
CREATION DATE:	07/13/20
MODIFICATION DATE:	02/01/21
FILE LOCATION:	INTERNET PROJECTS\2019 PROJECTS\1421-094-00 (LARIMER COUNTY ROAD 72)\DRAWINGS\ENGINEERING PLANS
FILE NAME:	1421-094-00 P&P.DWG

REVISIONS	
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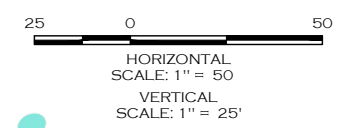
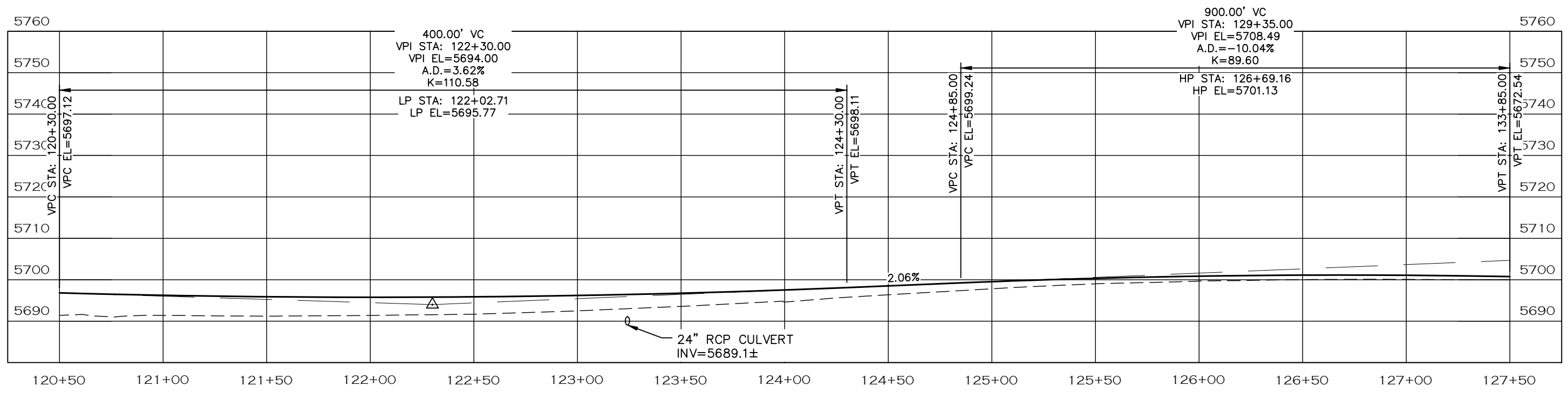
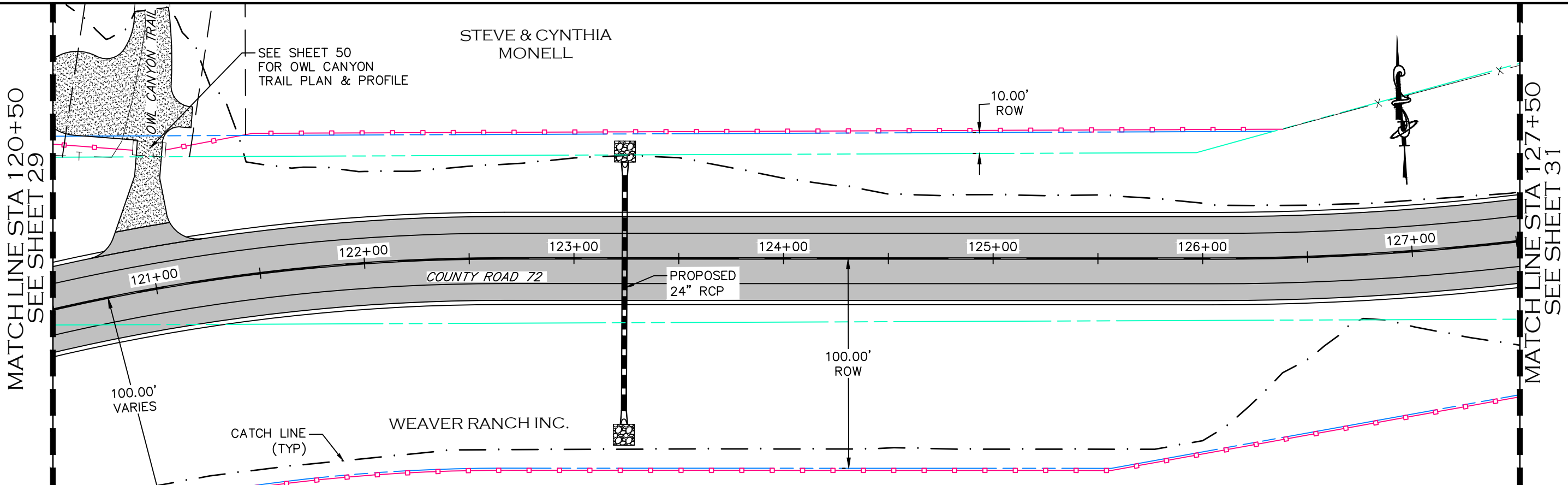


ENGINEERING DEPARTMENT
 200 WEST OAK, SUITE 3000
 POST OFFICE BOX 1190
 FORT COLLINS, COLORADO 80522-1190
 (970)498-5700
 (970)498-7986 FAX

AS CONSTRUCTED
NO REVISIONS:
REVISED:
VOID:

PLAN & PROFILE
STATION 113+50 TO 120+50

PROJECT NO. 335
LARIMER COUNTY ROAD 72
SHEET NO. 29



- NOTE**
1. ALL DRIVEWAY RADII ARE 15 FEET UNLESS OTHERWISE NOTED.
 2. PROPOSED FENCE TO BE SET ON PROPOSED ROW. FENCES SHOWN 1' OFF PROPOSED ROW FOR GRAPHICAL PURPOSES.

- PROPOSED FENCE
- - - - - TEMPORARY CONSTRUCTION EASEMENT
- — — — PROPOSED RIGHT-OF-WAY
- — — — EXISTING RIGHT-OF-WAY
- — — — EXISTING PROPERTY LINE

CALL UTILITY NOTIFICATION CENTER OF COLORADO
811
CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

COMPUTER INFORMATION	
CREATION DATE:	07/13/20
MODIFICATION DATE:	02/01/21
FILE LOCATION:	INTERNET PROJECTS\2019 PROJECTS\1421-094-00 (LARIMER COUNTY ROAD 72)\DRAWINGS\ENGINEERING PLANS
FILE NAME:	1421-094-00 P&P.DWG

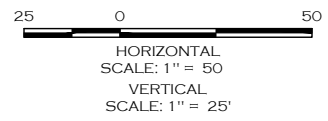
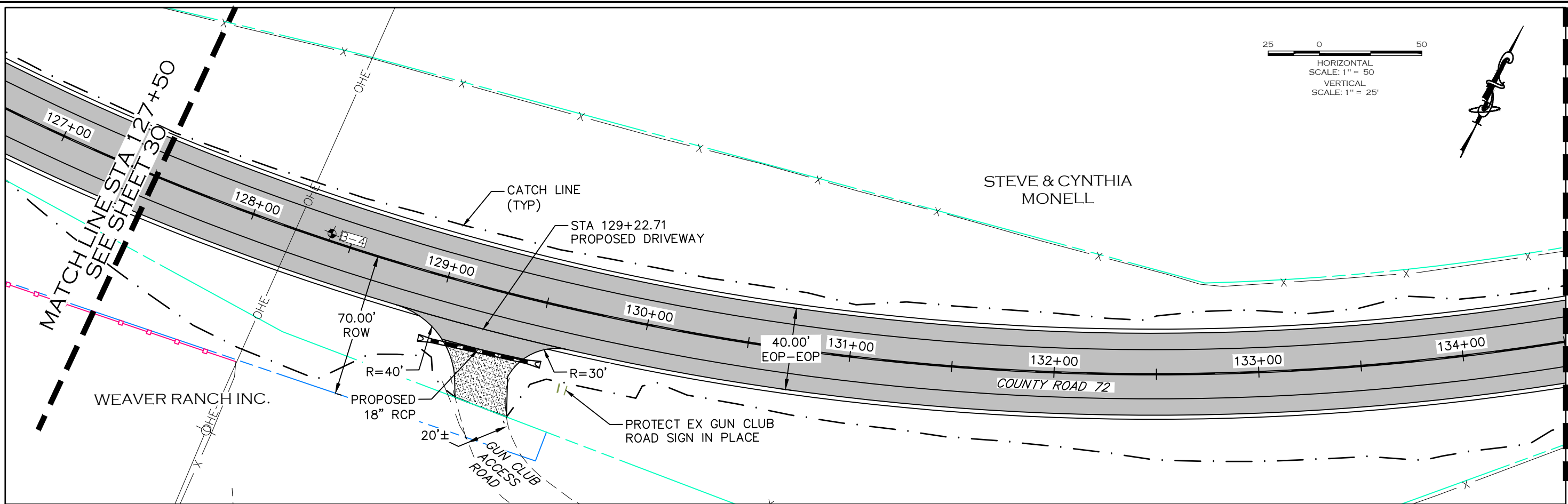
REVISIONS	
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(R-2)	
(R-3)	
(R-4)	
(R-5)	

LARIMER COUNTY ENGINEERING DEPARTMENT
 200 WEST OAK, SUITE 3000
 POST OFFICE BOX 1190
 FORT COLLINS, COLORADO 80522-1190
 (970)498-5700
 (970)498-7986 FAX

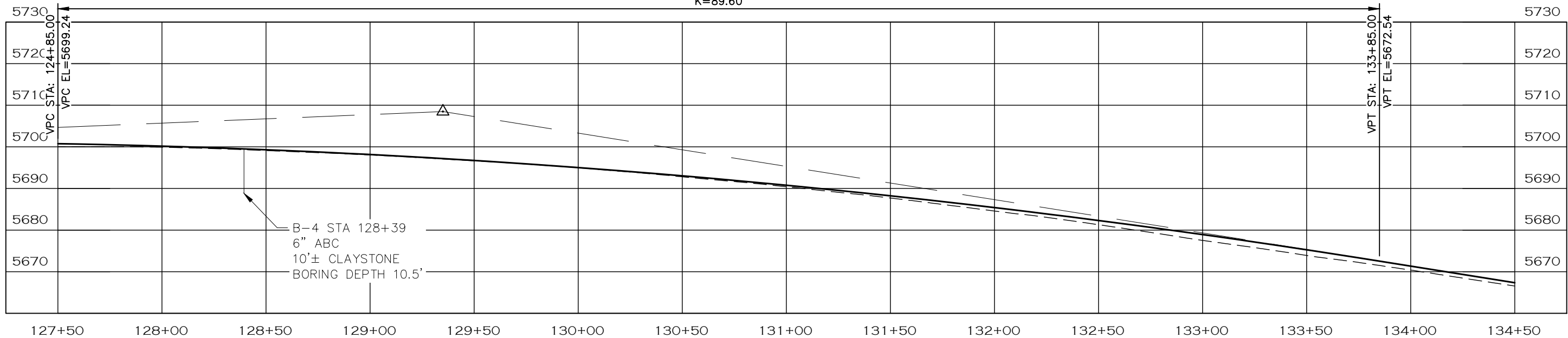
AS CONSTRUCTED
NO REVISIONS:
REVISED:
VOID:

PLAN & PROFILE
STATION 120+50 TO 127+50

PROJECT NO. 335
LARIMER COUNTY ROAD 72
SHEET NO. 30



900.00' VC
 VPI STA: 129+35.00
 VPI EL=5708.49
 A.D.=-10.04%
 K=89.60



NOTE

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- PROPOSED FENCE TO BE SET ON PROPOSED ROW. FENCES SHOWN 1' OFF PROPOSED ROW FOR GRAPHICAL PURPOSES.

- PROPOSED FENCE
- TEMPORARY CONSTRUCTION EASEMENT
- PROPOSED RIGHT-OF-WAY
- EXISTING RIGHT-OF-WAY
- EXISTING PROPERTY LINE

CALL UTILITY NOTIFICATION
 CENTER OF COLORADO
 811
 CALL 2-BUSINESS DAYS IN ADVANCE
 BEFORE YOU DIG, GRADE, OR EXCAVATE
 FOR THE MARKING OF UNDERGROUND
 MEMBER UTILITIES.



COMPUTER INFORMATION	
CREATION DATE:	07/13/20
MODIFICATION DATE:	02/01/21
FILE LOCATION:	INTEREST PROJECTS\2019 PROJECTS\1421-094-00 (LARIMER COUNTY ROAD 72)\DRAWINGS\ENGINEERING PLANS
FILE NAME:	1421-094-00 P&P.DWG

REVISIONS	
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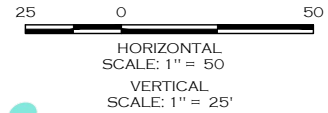
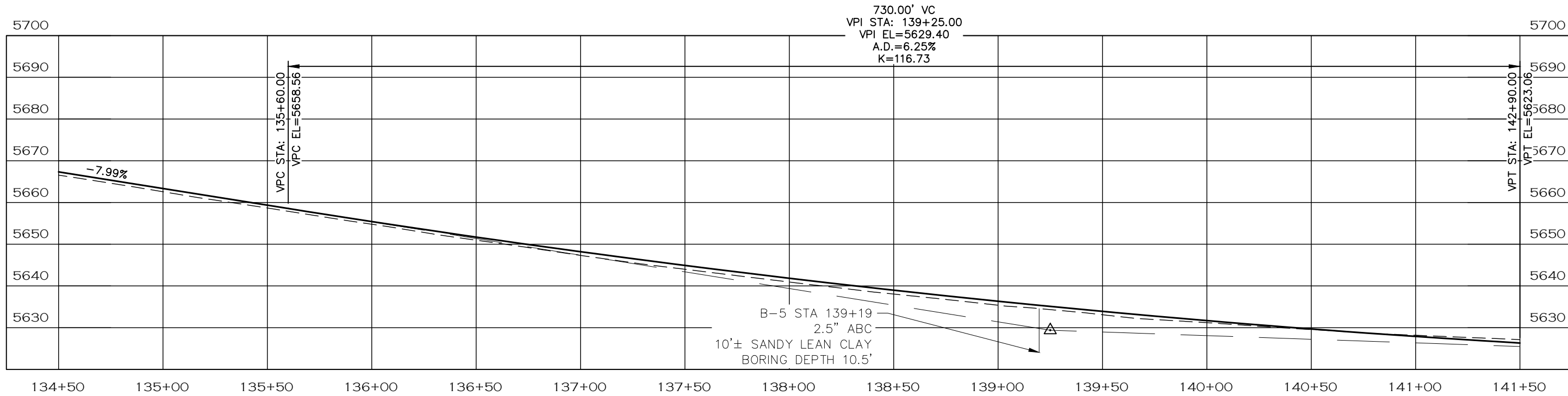
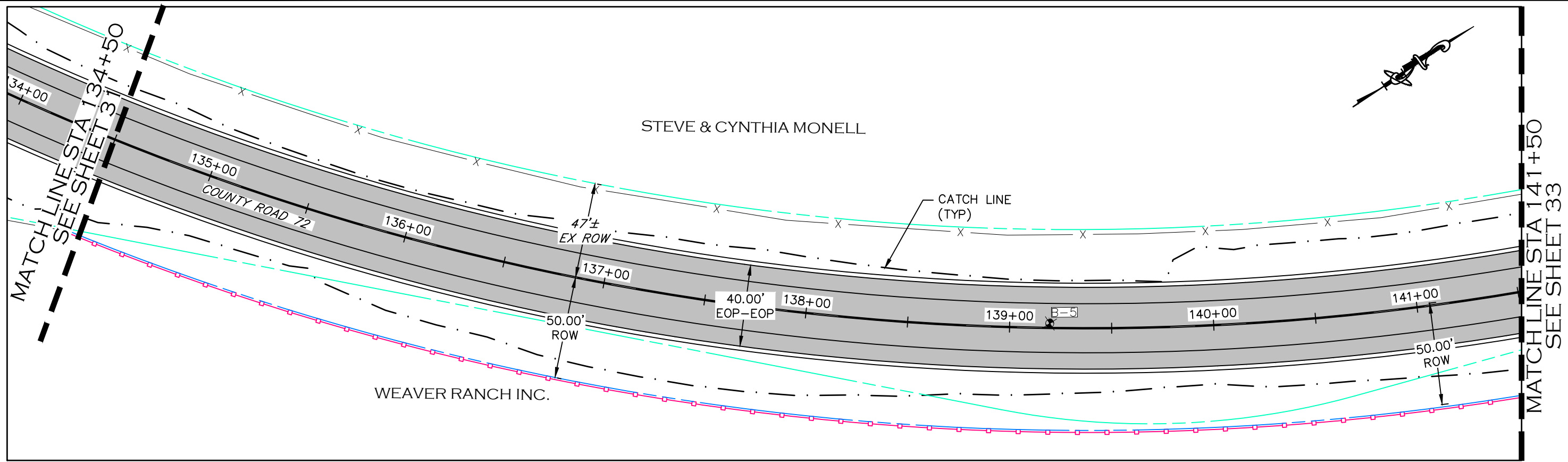


ENGINEERING DEPARTMENT
 200 WEST OAK, SUITE 3000
 POST OFFICE BOX 1190
 FORT COLLINS, COLORADO 80522-1190
 (970)498-5700
 (970)498-7986 FAX

AS CONSTRUCTED
NO REVISIONS:
REVISED:
VOID:

**PLAN & PROFILE
 STATION 127+50 TO 134+50**

PROJECT NO. 335
LARIMER COUNTY ROAD 72
SHEET NO. 31



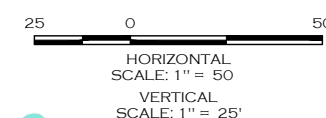
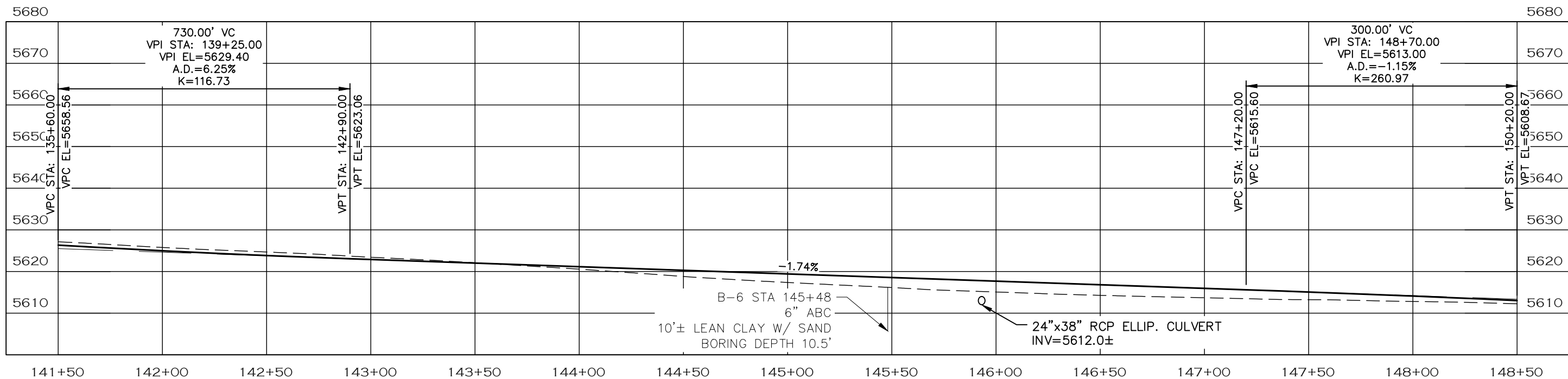
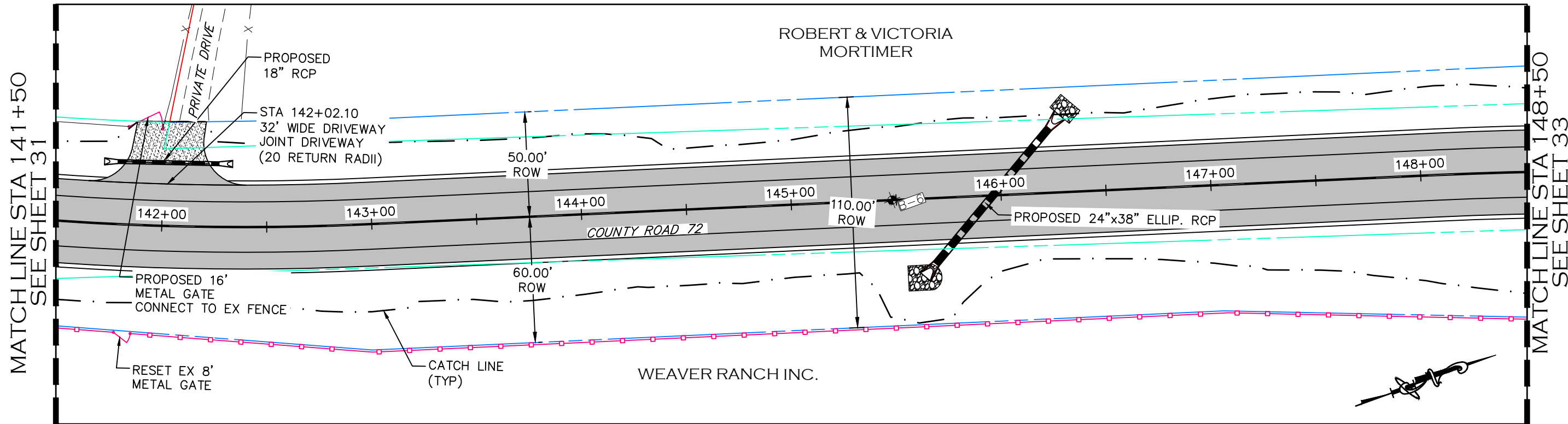
NOTE

1. ALL DRIVEWAY RADII ARE 15 FEET UNLESS OTHERWISE NOTED.
2. PROPOSED FENCE TO BE SET ON PROPOSED ROW. FENCES SHOWN 1' OFF PROPOSED ROW FOR GRAPHICAL PURPOSES.

- PROPOSED FENCE
- TEMPORARY CONSTRUCTION EASEMENT
- PROPOSED RIGHT-OF-WAY
- EXISTING RIGHT-OF-WAY
- EXISTING PROPERTY LINE

CALL UTILITY NOTIFICATION
CENTER OF COLORADO
811
CALL 2-BUSINESS DAYS IN ADVANCE
BEFORE YOU DIG, GRADE, OR EXCAVATE
FOR THE MARKING OF UNDERGROUND
MEMBER UTILITIES.

COMPUTER INFORMATION	CREATION DATE: 07/13/20	REVISIONS			AS CONSTRUCTED	PLAN & PROFILE	PROJECT NO. 335	
	MODIFICATION DATE: 02/01/21	(R-1)		ENGINEERING DEPARTMENT 200 WEST OAK, SUITE 3000 POST OFFICE BOX 1190 FORT COLLINS, COLORADO 80522-1190 (970)498-5700 (970)498-7986 FAX	NO REVISIONS:	STATION 134+50 TO 141+50	LARIMER COUNTY ROAD 72	
	FILE LOCATION: I:\PROJECTS\2019 PROJECTS\1421-094-00 (LARIMER COUNTY ROAD 72)\DRAWINGS\ENGINEERING PLANS	(R-2)			REVISED:			
	FILE NAME: 1421-094-00 P&P.DWG	(R-3)			VOID:			
		(R-4)						
		(R-5)						
							SHEET NO. 811	32



NOTE

1. ALL DRIVEWAY RADII ARE 15 FEET UNLESS OTHERWISE NOTED.
2. PROPOSED FENCE TO BE SET ON PROPOSED ROW. FENCES SHOWN 1' OFF PROPOSED ROW FOR GRAPHICAL PURPOSES.

- PROPOSED FENCE
- TEMPORARY CONSTRUCTION EASEMENT
- PROPOSED RIGHT-OF-WAY
- EXISTING RIGHT-OF-WAY
- EXISTING PROPERTY LINE

CALL UTILITY NOTIFICATION CENTER OF COLORADO
811
 CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

COMPUTER INFORMATION	
CREATION DATE:	07/13/20
MODIFICATION DATE:	02/01/21
FILE LOCATION:	WORKING PROJECTS\2019 PROJECTS\1421-094-00 (LARIMER COUNTY ROAD 72)\DRAWINGS\ENGINEERING PLANS
FILE NAME:	1421-094-00 P&P.DWG

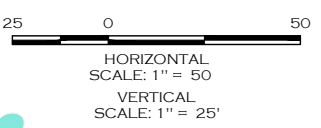
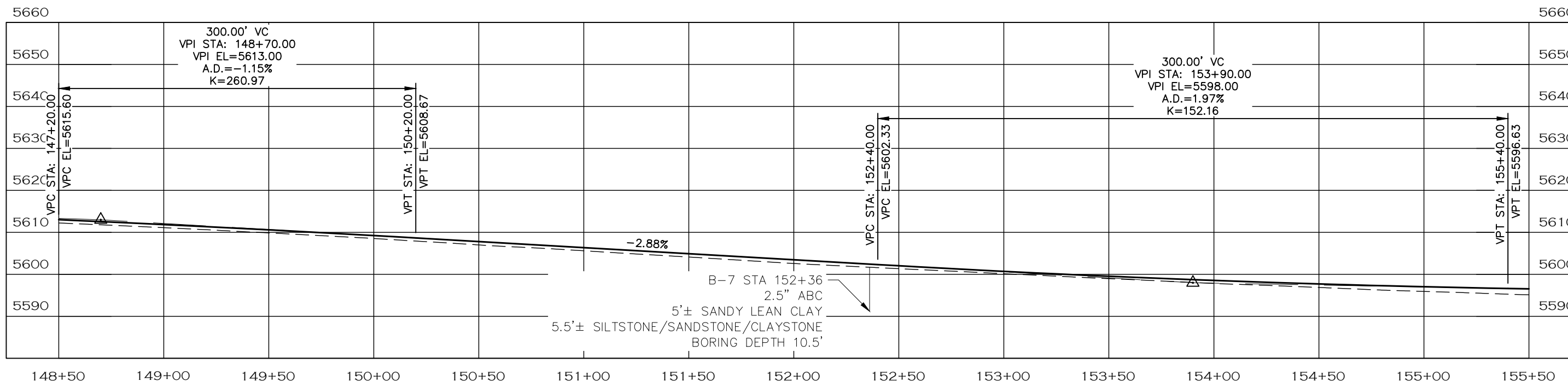
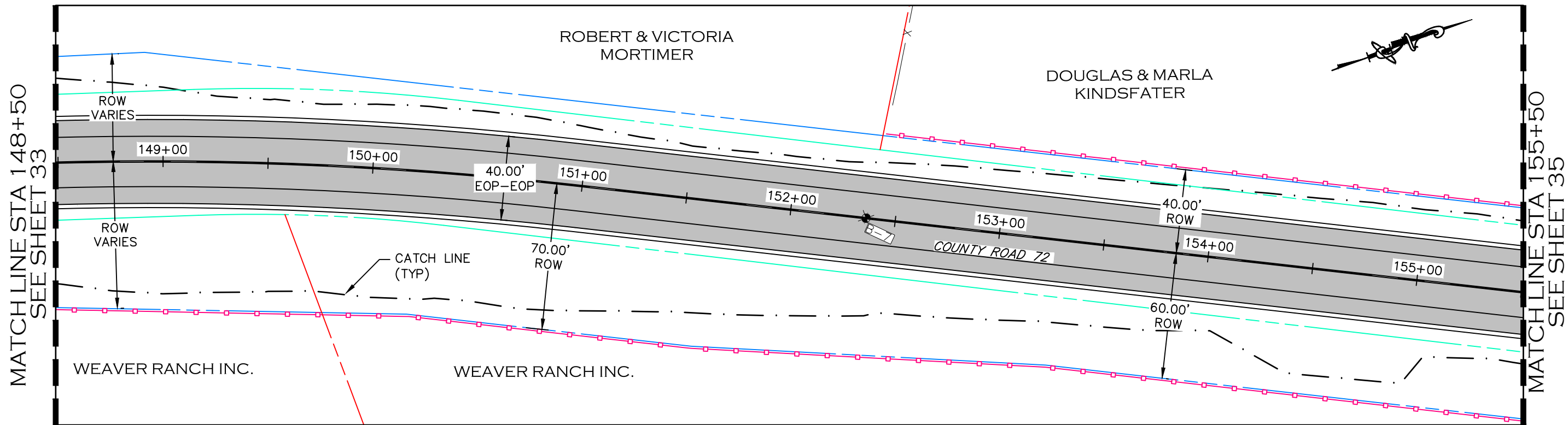
REVISIONS	
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(R-2)	
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LARIMER COUNTY ENGINEERING DEPARTMENT
 200 WEST OAK, SUITE 3000
 POST OFFICE BOX 1190
 FORT COLLINS, COLORADO 80522-1190
 (970)498-5700
 (970)498-7986 FAX

AS CONSTRUCTED
NO REVISIONS:
REVISED:
VOID:

PLAN & PROFILE
STATION 141+50 TO 148+50

PROJECT NO. 335
LARIMER COUNTY ROAD 72
SHEET NO. 33

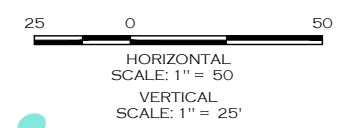
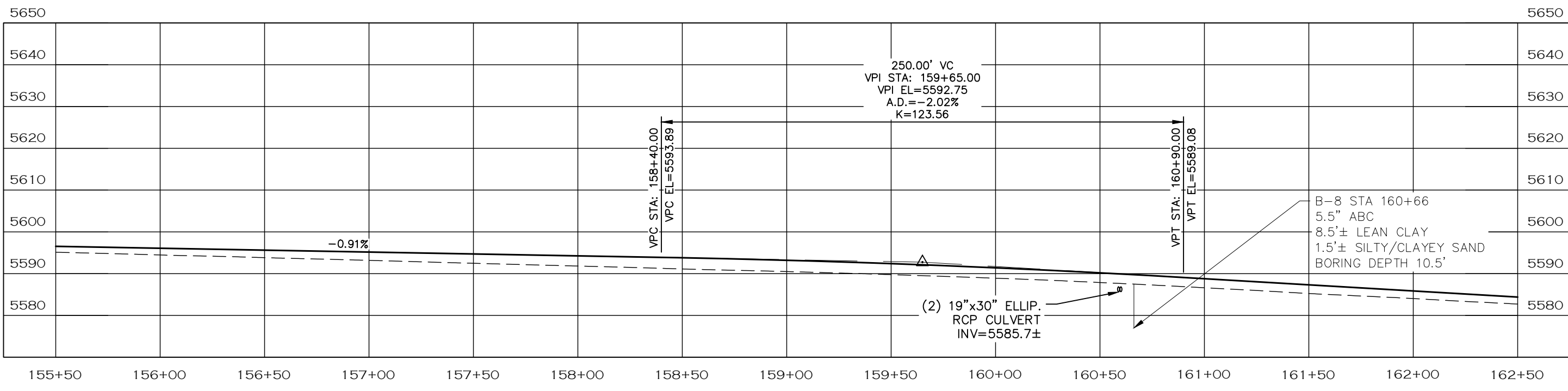
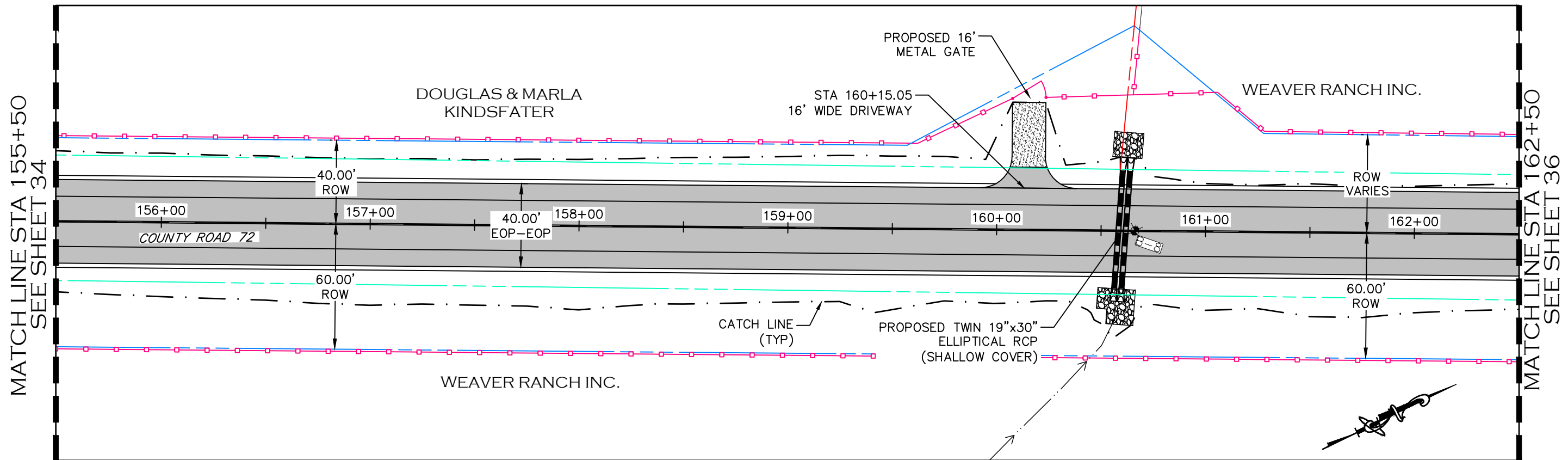


- NOTE**
1. ALL DRIVEWAY RADII ARE 15 FEET UNLESS OTHERWISE NOTED.
 2. PROPOSED FENCE TO BE SET ON PROPOSED ROW. FENCES SHOWN 1' OFF PROPOSED ROW FOR GRAPHICAL PURPOSES.

- PROPOSED FENCE
- - - - - TEMPORARY CONSTRUCTION EASEMENT
- — — — PROPOSED RIGHT-OF-WAY
- · — · — EXISTING RIGHT-OF-WAY
- - - - - EXISTING PROPERTY LINE

CALL UTILITY NOTIFICATION
CENTER OF COLORADO
811
CALL 2-BUSINESS DAYS IN ADVANCE
BEFORE YOU DIG, GRADE, OR EXCAVATE
FOR THE MARKING OF UNDERGROUND
MEMBER UTILITIES.

COMPUTER INFORMATION		REVISIONS			ENGINEERING DEPARTMENT 200 WEST OAK, SUITE 3000 POST OFFICE BOX 1190 FORT COLLINS, COLORADO 80522-1190 (970)498-5700 (970)498-7986 FAX	AS CONSTRUCTED		PLAN & PROFILE STATION 148+50 TO 155+50	PROJECT NO. 335	
CREATION DATE:	07/13/20	(R-1)				NO REVISIONS:			LARIMER COUNTY ROAD 72	
MODIFICATION DATE:	02/01/21	(R-2)				REVISED:				
FILE LOCATION:	W:\PROJECTS\2019 PROJECTS\1421-094-00 (LARIMER COUNTY ROAD 72)\DRAWINGS\ENGINEERING PLANS	(R-3)				VOID:				
FILE NAME:	1421-094-00 P&P.DWG	(R-4)								
		(R-5)								



NOTE

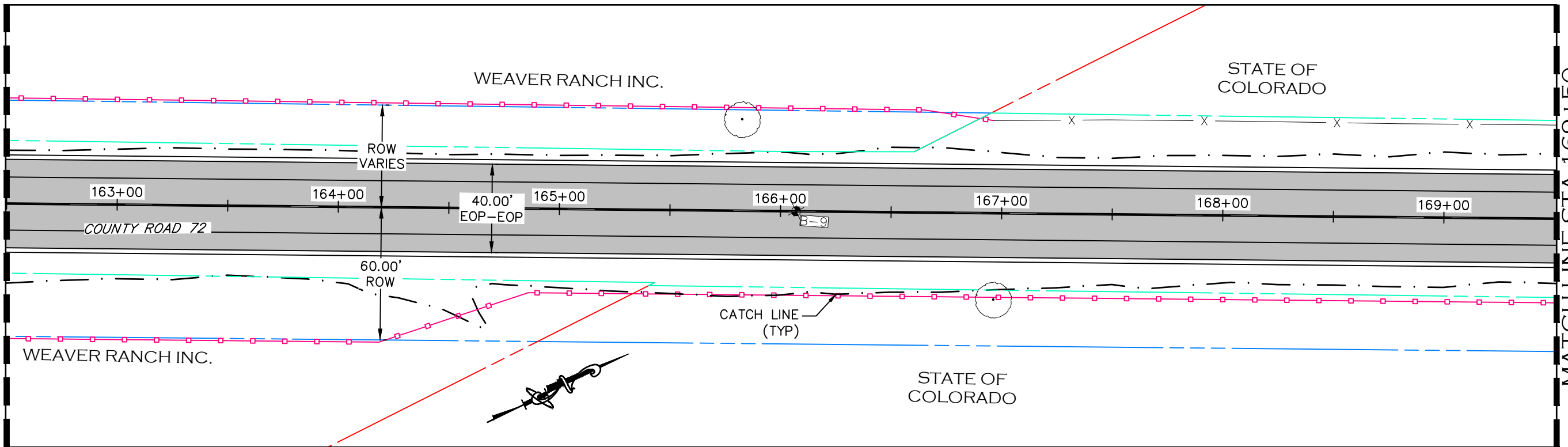
1. ALL DRIVEWAY RADII ARE 15 FEET UNLESS OTHERWISE NOTED.
2. PROPOSED FENCE TO BE SET ON PROPOSED ROW. FENCES SHOWN 1' OFF PROPOSED ROW FOR GRAPHICAL PURPOSES.

- PROPOSED FENCE
- - - - - TEMPORARY CONSTRUCTION EASEMENT
- - - - - PROPOSED RIGHT-OF-WAY
- - - - - EXISTING RIGHT-OF-WAY
- - - - - EXISTING PROPERTY LINE

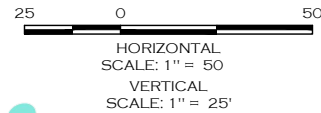
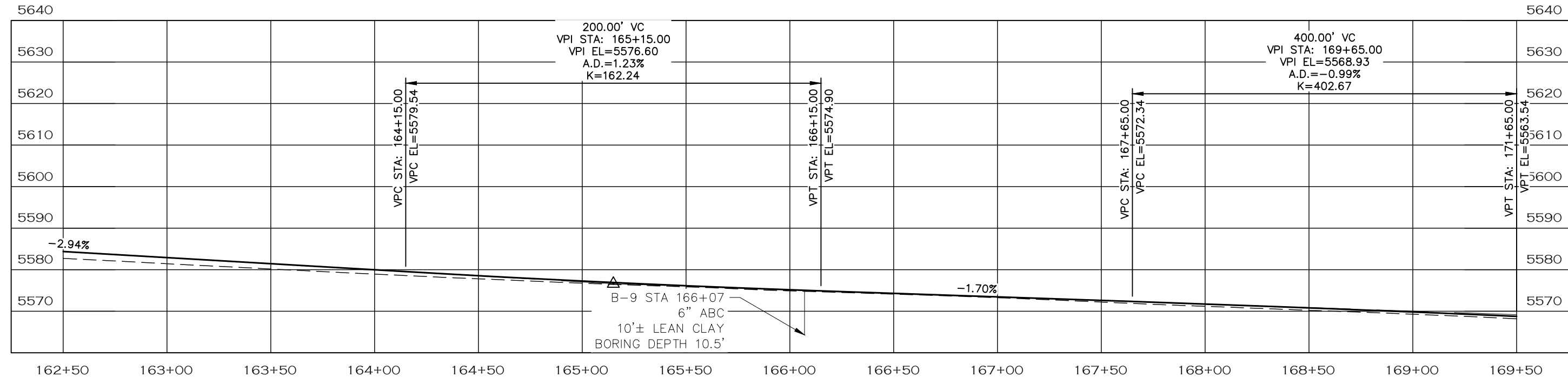
CALL UTILITY NOTIFICATION
CENTER OF COLORADO
811
CALL 2-BUSINESS DAYS IN ADVANCE
BEFORE YOU DIG, GRADE, OR EXCAVATE
FOR THE MARKING OF UNDERGROUND
MEMBER UTILITIES.

COMPUTER INFORMATION		REVISIONS		<p>LARIMER COUNTY ENGINEERING DEPARTMENT 200 WEST OAK, SUITE 3000 POST OFFICE BOX 1190 FORT COLLINS, COLORADO 80522-1190 (970)498-5700 (970)498-7986 FAX</p>	AS CONSTRUCTED	<p>PLAN & PROFILE STATION 155+50 TO 162+50</p>	PROJECT NO. 335	
CREATION DATE:	07/13/20	(R-1)			NO REVISIONS:		<p>LARIMER COUNTY ROAD 72</p>	<p>SHEET NO. 35</p>
MODIFICATION DATE:	02/01/21	(R-2)			REVISED:			
FILE LOCATION:	WERNETT PROJECTS\2019 PROJECTS\1421-094-00 (LARIMER COUNTY ROAD 72)\DRAWINGS\ENGINEERING PLANS	(R-3)			VOID:			
FILE NAME:	1421-094-00 P&P.DWG	(R-4)						
		(R-5)						

MATCHLINE STA 162+50
SEE SHEET 35



MATCHLINE STA 169+50
SEE SHEET 37



NOTE

- ALL DRIVEWAY RADII ARE 15 FEET UNLESS OTHERWISE NOTED.
- PROPOSED FENCE TO BE SET ON PROPOSED ROW. FENCES SHOWN 1' OFF PROPOSED ROW FOR GRAPHICAL PURPOSES.

- PROPOSED FENCE
- TEMPORARY CONSTRUCTION EASEMENT
- PROPOSED RIGHT-OF-WAY
- EXISTING RIGHT-OF-WAY
- EXISTING PROPERTY LINE

CALL UTILITY NOTIFICATION
CENTER OF COLORADO
811
CALL 2-BUSINESS DAYS IN ADVANCE
BEFORE YOU DIG, GRADE, OR EXCAVATE
FOR THE MARKING OF UNDERGROUND
MEMBER UTILITIES.

COMPUTER INFORMATION	
CREATION DATE:	07/13/20
MODIFICATION DATE:	02/01/21
FILE LOCATION:	INTEREST PROJECTS\2019 PROJECTS\1421-094-00 (LARIMER COUNTY ROAD 72)\DRAWINGS\ENGINEERING PLANS
FILE NAME:	1421-094-00 P&P.DWG

REVISIONS	
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(R-2)	
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(R-5)	

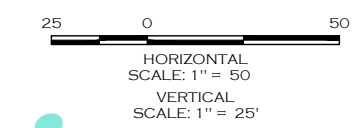
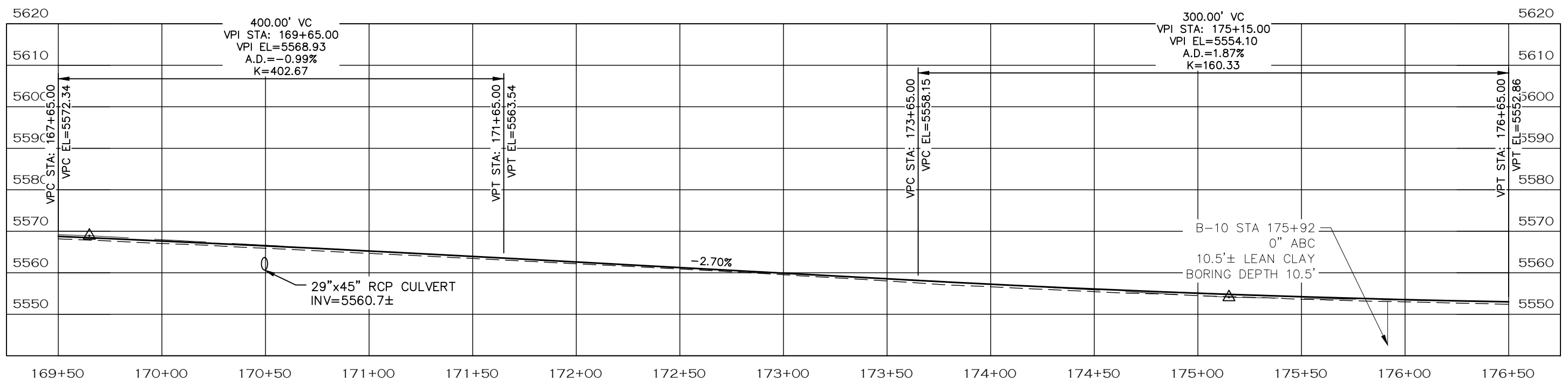
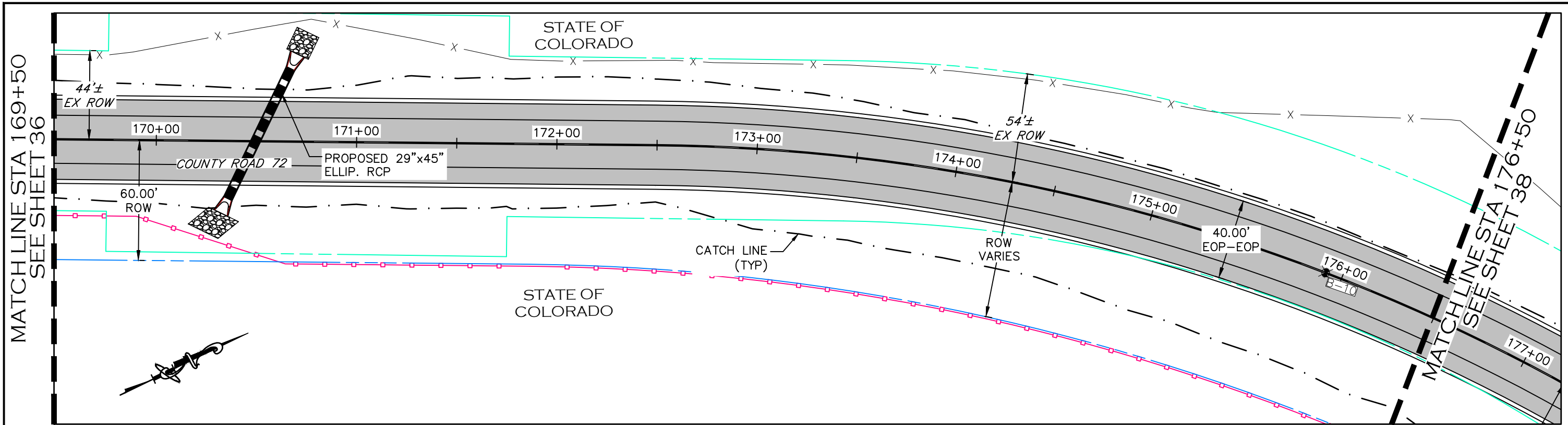


ENGINEERING DEPARTMENT
200 WEST OAK, SUITE 3000
POST OFFICE BOX 1190
FORT COLLINS, COLORADO 80522-1190
(970)498-5700
(970)498-7986 FAX

AS CONSTRUCTED
NO REVISIONS:
REVISED:
VOID:

PLAN & PROFILE
STATION 162+50 TO 169+50

PROJECT NO. 335
LARIMER COUNTY ROAD 72
SHEET NO. 36



- NOTE**
1. ALL DRIVEWAY RADII ARE 15 FEET UNLESS OTHERWISE NOTED.
 2. PROPOSED FENCE TO BE SET ON PROPOSED ROW. FENCES SHOWN 1' OFF PROPOSED ROW FOR GRAPHICAL PURPOSES.

- PROPOSED FENCE
- TEMPORARY CONSTRUCTION EASEMENT
- PROPOSED RIGHT-OF-WAY
- EXISTING RIGHT-OF-WAY
- EXISTING PROPERTY LINE

CALL UTILITY NOTIFICATION
CENTER OF COLORADO
811
CALL 2-BUSINESS DAYS IN ADVANCE
BEFORE YOU DIG, GRADE, OR EXCAVATE
FOR THE MARKING OF UNDERGROUND
MEMBER UTILITIES.

COMPUTER INFORMATION	
CREATION DATE:	07/13/20
MODIFICATION DATE:	02/01/21
FILE LOCATION:	INTEREST PROJECTS\2019 PROJECTS\1421-094-00 (LARIMER COUNTY ROAD 72)\DRAWINGS\ENGINEERING PLANS
FILE NAME:	1421-094-00 P&P.DWG

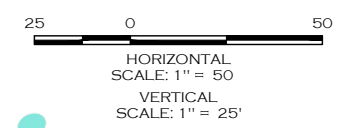
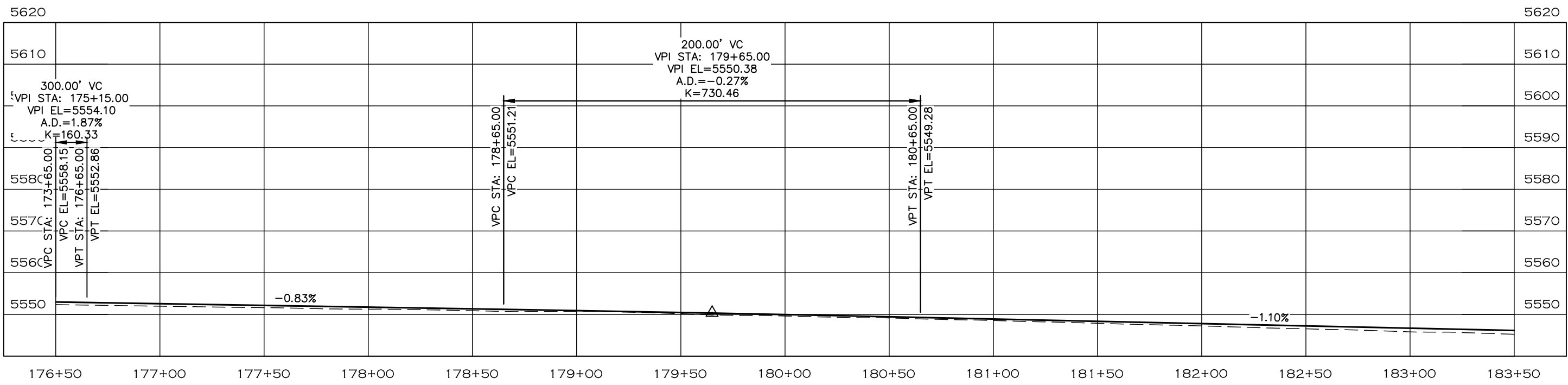
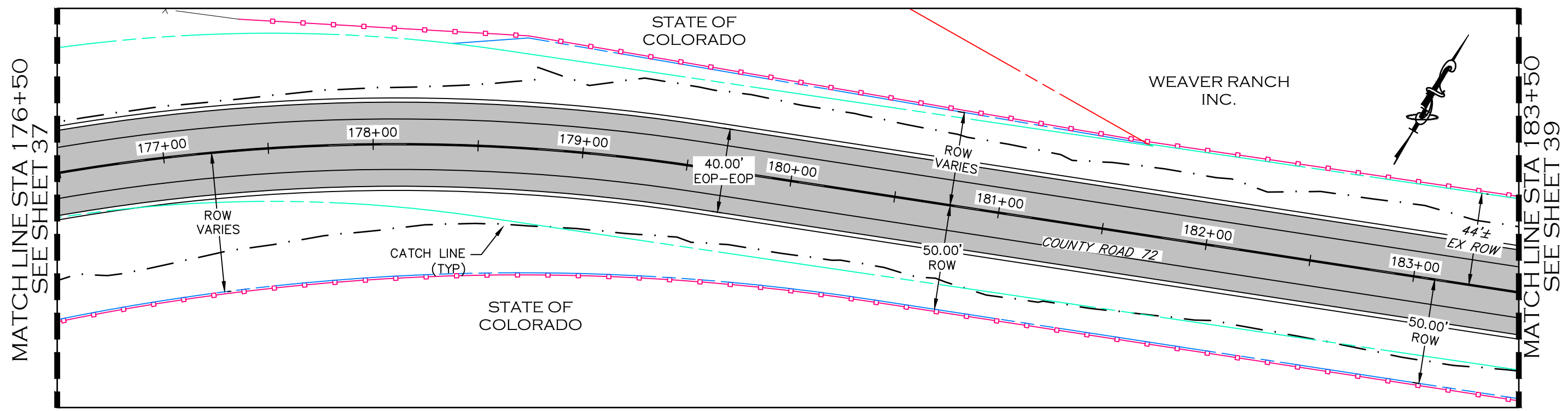
REVISIONS	
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(R-2)	
(R-3)	
(R-4)	
(R-5)	

LARIMER COUNTY ENGINEERING DEPARTMENT
 200 WEST OAK, SUITE 3000
 POST OFFICE BOX 1190
 FORT COLLINS, COLORADO 80522-1190
 (970)498-5700
 (970)498-7986 FAX

AS CONSTRUCTED
NO REVISIONS:
REVISED:
VOID:

PLAN & PROFILE
STATION 169+50 TO 176+50

PROJECT NO. 335
LARIMER COUNTY ROAD 72
SHEET NO. 37



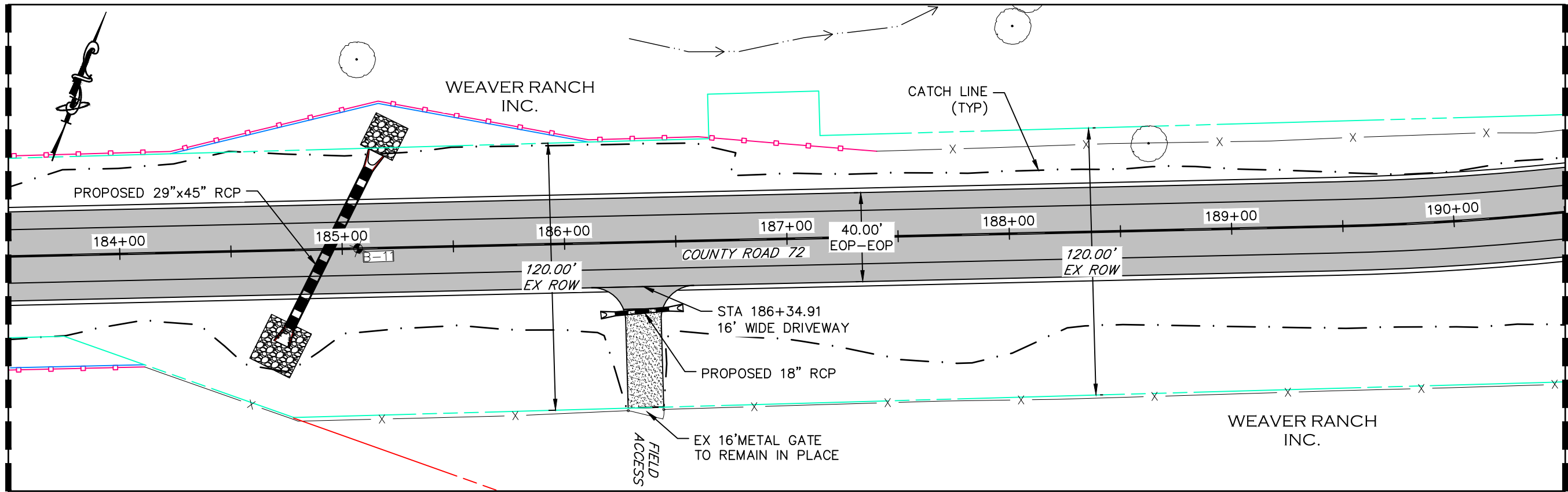
- NOTE**
1. ALL DRIVEWAY RADII ARE 15 FEET UNLESS OTHERWISE NOTED.
 2. PROPOSED FENCE TO BE SET ON PROPOSED ROW. FENCES SHOWN 1' OFF PROPOSED ROW FOR GRAPHICAL PURPOSES.

- PROPOSED FENCE
- TEMPORARY CONSTRUCTION EASEMENT
- PROPOSED RIGHT-OF-WAY
- EXISTING RIGHT-OF-WAY
- EXISTING PROPERTY LINE

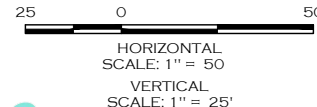
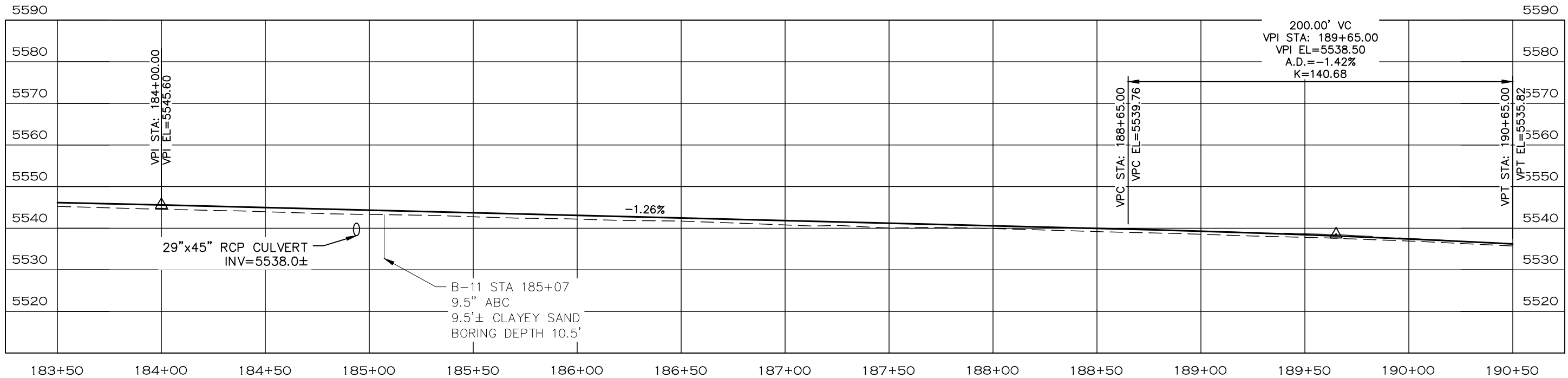
CALL UTILITY NOTIFICATION CENTER OF COLORADO
 811
 CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

COMPUTER INFORMATION		REVISIONS		<p>LARIMER COUNTY ENGINEERING DEPARTMENT 200 WEST OAK, SUITE 3000 POST OFFICE BOX 1190 FORT COLLINS, COLORADO 80522-1190 (970)498-5700 (970)498-7986 FAX</p>	AS CONSTRUCTED		<p>PLAN & PROFILE STATION 176+50 TO 183+50</p>	PROJECT NO. 335	
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MODIFICATION DATE:	02/01/21	<input type="checkbox"/> R-2			REVISED:			SHEET NO. 38	
FILE LOCATION:	WORKING PROJECTS\2019 PROJECTS\1421-094-00 (LARIMER COUNTY ROAD 72)\DRAWINGS\ENGINEERING PLANS	<input type="checkbox"/> R-3			VOID:				
FILE NAME:	1421-094-00 P&P.DWG	<input type="checkbox"/> R-4							
		<input type="checkbox"/> R-5							

MATCHLINE STA 183+50
SEE SHEET 38



MATCHLINE STA 190+50
SEE SHEET 40



- NOTE**
1. ALL DRIVEWAY RADII ARE 15 FEET UNLESS OTHERWISE NOTED.
 2. PROPOSED FENCE TO BE SET ON PROPOSED ROW. FENCES SHOWN 1' OFF PROPOSED ROW FOR GRAPHICAL PURPOSES.

- PROPOSED FENCE
- TEMPORARY CONSTRUCTION EASEMENT
- PROPOSED RIGHT-OF-WAY
- EXISTING RIGHT-OF-WAY
- EXISTING PROPERTY LINE

CALL UTILITY NOTIFICATION
CENTER OF COLORADO
811
CALL 2-BUSINESS DAYS IN ADVANCE
BEFORE YOU DIG, GRADE, OR EXCAVATE
FOR THE MARKING OF UNDERGROUND
MEMBER UTILITIES.

COMPUTER INFORMATION	
CREATION DATE:	07/13/20
MODIFICATION DATE:	02/01/21
FILE LOCATION:	INTEREST PROJECTS\2019 PROJECTS\1421-094-00 (LARIMER COUNTY ROAD 72)\DRAWINGS\ENGINEERING PLANS
FILE NAME:	1421-094-00 P&P.DWG

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(R-2)	
(R-3)	
(R-4)	
(R-5)	



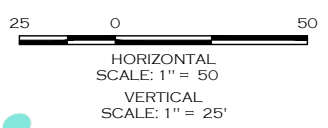
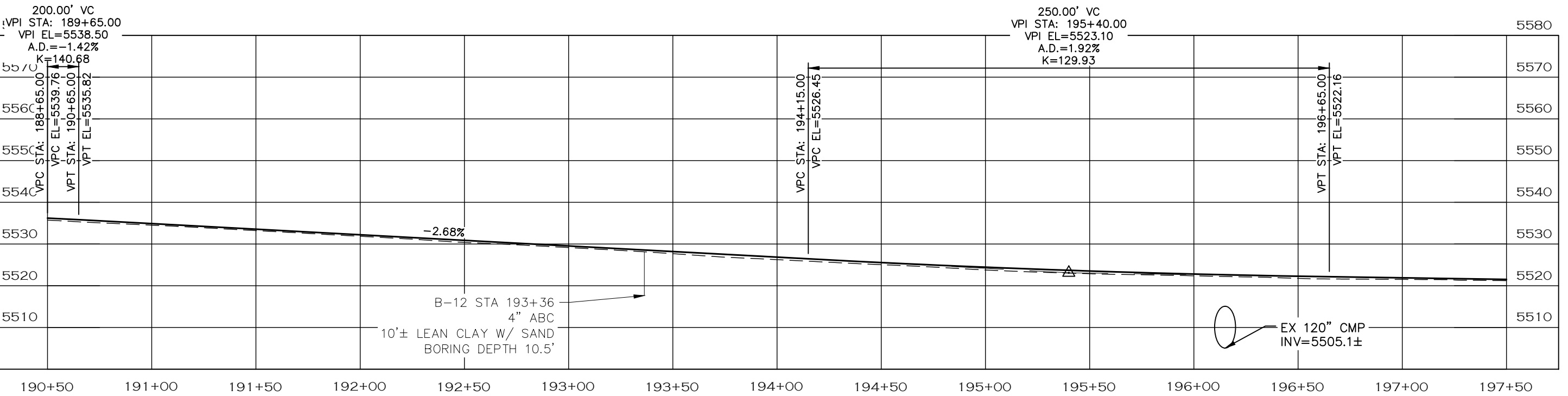
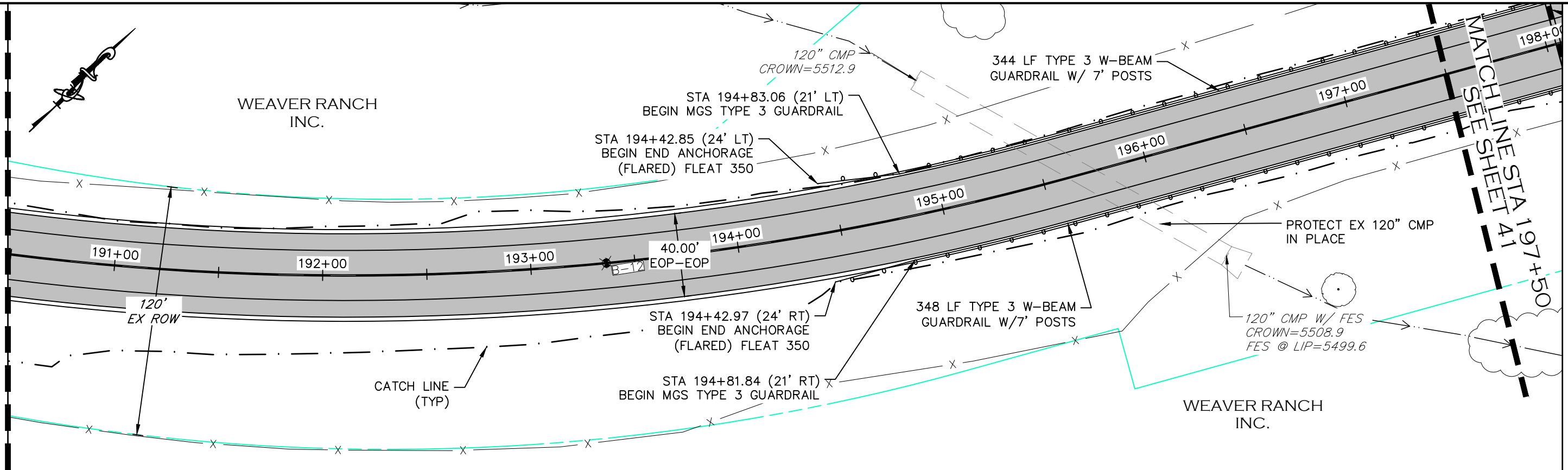
ENGINEERING DEPARTMENT
200 WEST OAK, SUITE 3000
POST OFFICE BOX 1190
FORT COLLINS, COLORADO 80522-1190
(970)498-5700
(970)498-7986 FAX

AS CONSTRUCTED
NO REVISIONS:
REVISED:
VOID:

**PLAN & PROFILE
STATION 183+50 TO 190+50**

PROJECT NO. 335
LARIMER COUNTY ROAD 72
SHEET NO. 39

MATCHLINE STA 190+50
SEE SHEET 39



NOTE

1. ALL DRIVEWAY RADII ARE 15 FEET UNLESS OTHERWISE NOTED.
2. GUARDRAIL SHALL BE MIDWEST GUARDRAIL SYSTEM TYPE 3 W BEAM WITH GALVANIZED STEEL RAIL AND END SECTIONS. REFER TO CDOT M-606-1.
3. PROPOSED FENCE TO BE SET ON PROPOSED ROW. FENCES SHOWN 1' OFF PROPOSED ROW FOR GRAPHICAL PURPOSES.

- PROPOSED FENCE
- TEMPORARY CONSTRUCTION EASEMENT
- PROPOSED RIGHT-OF-WAY
- EXISTING RIGHT-OF-WAY
- EXISTING PROPERTY LINE

CALL UTILITY NOTIFICATION
CENTER OF COLORADO
811
CALL 2-BUSINESS DAYS IN ADVANCE
BEFORE YOU DIG, GRADE, OR EXCAVATE
FOR THE MARKING OF UNDERGROUND
MEMBER UTILITIES.

COMPUTER INFORMATION	
CREATION DATE:	07/13/20
MODIFICATION DATE:	02/01/21
FILE LOCATION:	INTEREST PROJECTS\2019 PROJECTS\1421-094-00 (LARIMER COUNTY ROAD 72)\DRAWINGS\ENGINEERING PLANS
FILE NAME:	1421-094-00 P&P.DWG

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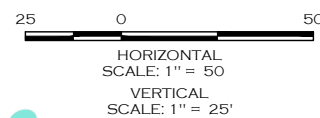
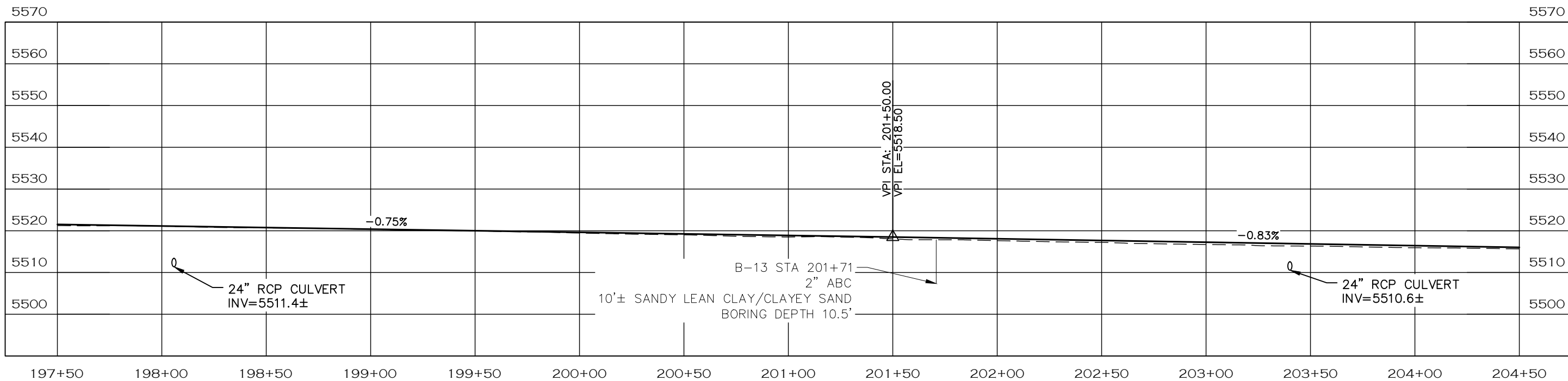
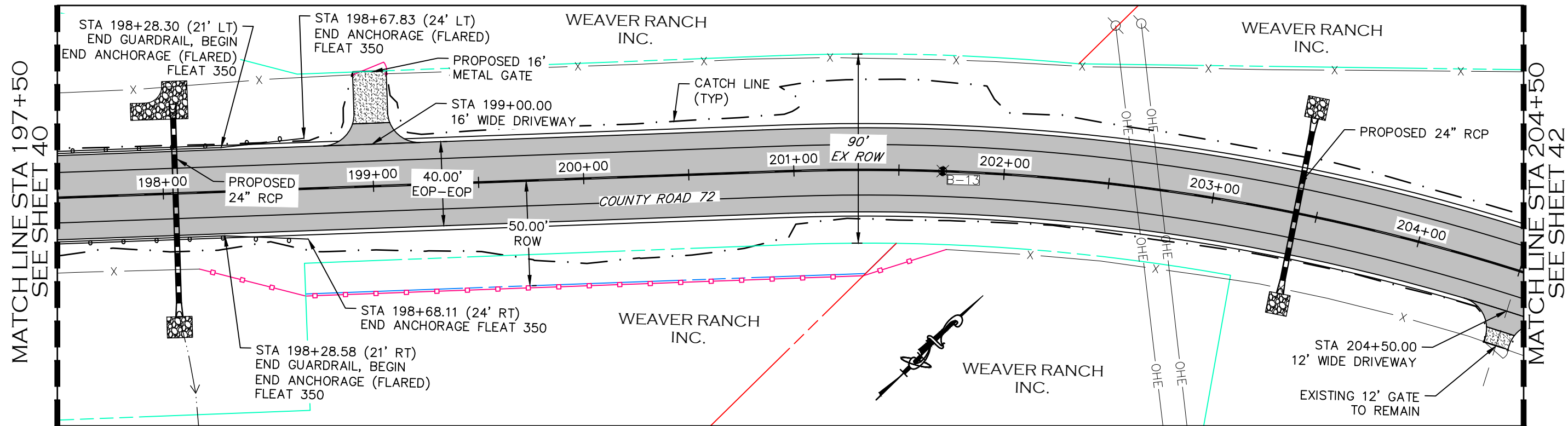


ENGINEERING DEPARTMENT
200 WEST OAK, SUITE 3000
POST OFFICE BOX 1190
FORT COLLINS, COLORADO 80522-1190
(970)498-5700
(970)498-7986 FAX

AS CONSTRUCTED
NO REVISIONS:
REVISED:
VOID:

**PLAN & PROFILE
STATION 190+50 TO 197+50**

PROJECT NO. 335
LARIMER COUNTY ROAD 72
SHEET NO. 40



NOTE

1. ALL DRIVEWAY RADII ARE 15 FEET UNLESS OTHERWISE NOTED.
2. GUARDRAIL SHALL BE MIDWEST GUARDRAIL SYSTEM TYPE 3 W BEAM WITH GALVANIZED STEEL RAIL AND END SECTIONS. REFER TO CDOT M-606-1.
3. PROPOSED FENCE TO BE SET ON PROPOSED ROW. FENCES SHOWN 1' OFF PROPOSED ROW FOR GRAPHICAL PURPOSES.

- PROPOSED FENCE
- TEMPORARY CONSTRUCTION EASEMENT
- PROPOSED RIGHT-OF-WAY
- EXISTING RIGHT-OF-WAY
- EXISTING PROPERTY LINE

CALL UTILITY NOTIFICATION
CENTER OF COLORADO
811
CALL 2-BUSINESS DAYS IN ADVANCE
BEFORE YOU DIG, GRADE, OR EXCAVATE
FOR THE MARKING OF UNDERGROUND
MEMBER UTILITIES.

COMPUTER INFORMATION	
CREATION DATE:	07/13/20
MODIFICATION DATE:	02/01/21
FILE LOCATION:	INTEREST PROJECTS\2019 PROJECTS\1421-094-00 (LARIMER COUNTY ROAD 72)\DRAWINGS\ENGINEERING PLANS
FILE NAME:	1421-094-00 P&P.DWG

REVISIONS	
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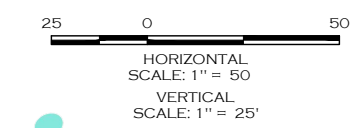
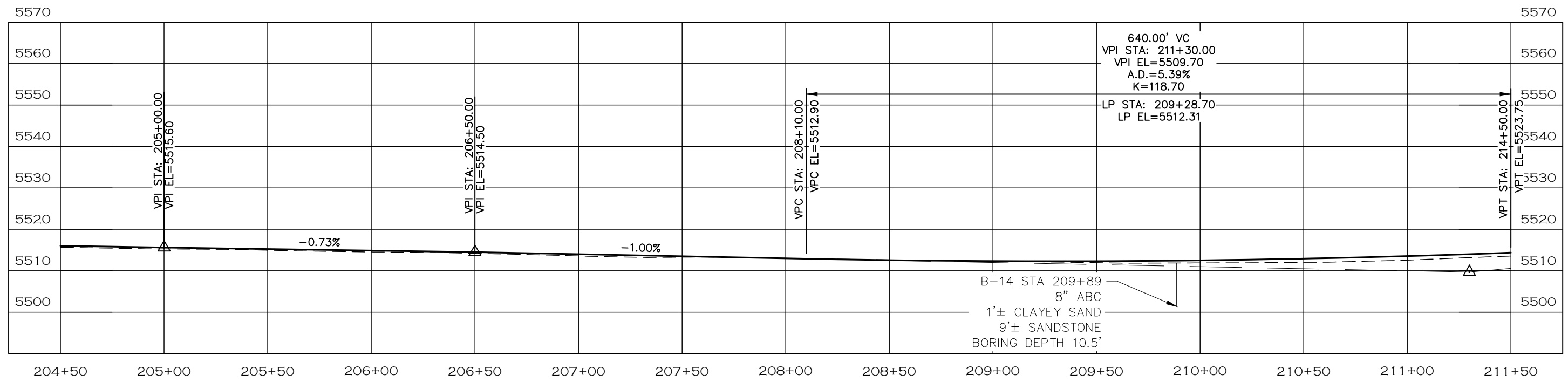
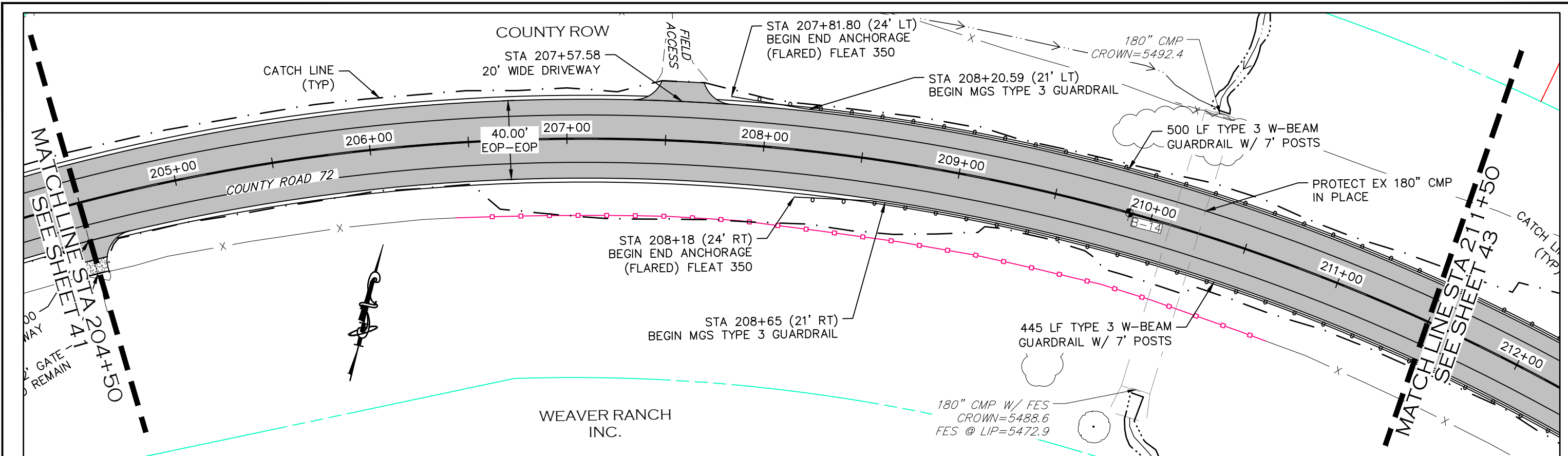


ENGINEERING DEPARTMENT
200 WEST OAK, SUITE 3000
POST OFFICE BOX 1190
FORT COLLINS, COLORADO 80522-1190
(970)498-5700
(970)498-7986 FAX

AS CONSTRUCTED
NO REVISIONS:
REVISED:
VOID:

PLAN & PROFILE
STATION 197+50 TO 204+50

PROJECT NO. 335
LARIMER COUNTY ROAD 72
SHEET NO. 41



NOTE

1. ALL DRIVEWAY RADII ARE 15 FEET UNLESS OTHERWISE NOTED.
2. GUARDRAIL SHALL BE MIDWEST GUARDRAIL SYSTEM TYPE 3 W BEAM WITH GALVANIZED STEEL RAIL AND END SECTIONS. REFER TO CDOT M-606-1.
3. PROPOSED FENCE TO BE SET ON PROPOSED ROW. FENCES SHOWN 1' OFF PROPOSED ROW FOR GRAPHICAL PURPOSES.

- PROPOSED FENCE
- TEMPORARY CONSTRUCTION EASEMENT
- PROPOSED RIGHT-OF-WAY
- EXISTING RIGHT-OF-WAY
- EXISTING PROPERTY LINE

CALL UTILITY NOTIFICATION CENTER OF COLORADO
811
 CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

COMPUTER INFORMATION	
CREATION DATE:	07/13/20
MODIFICATION DATE:	02/01/21
FILE LOCATION:	WORKING PROJECTS\2019 PROJECTS\1421-094-00 LARIMER COUNTY ROAD 72\DRAWINGS\ENGINEERING PLANS
FILE NAME:	1421-094-00 P&P.DWG

REVISIONS	
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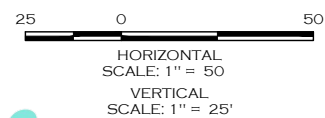
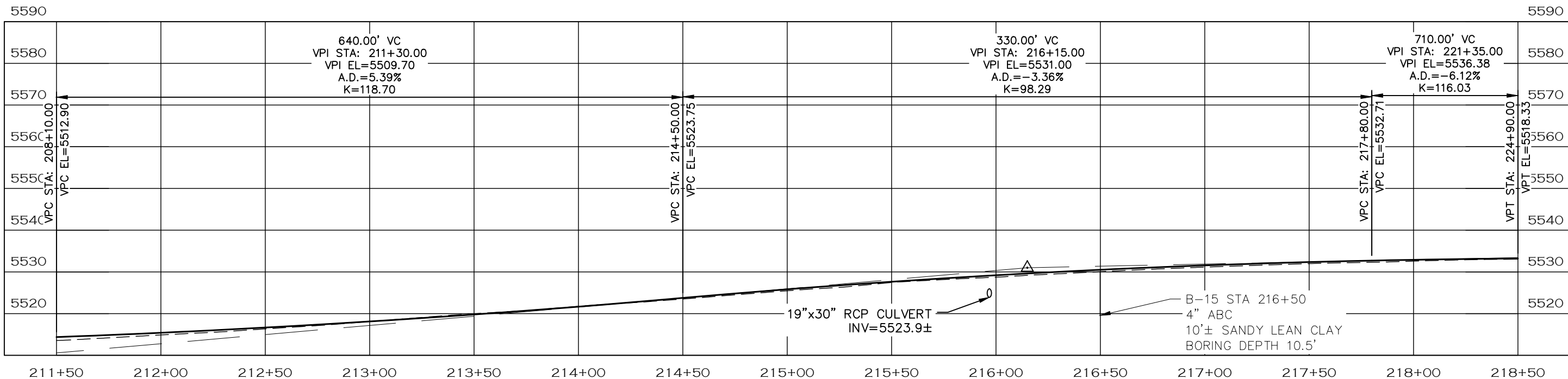
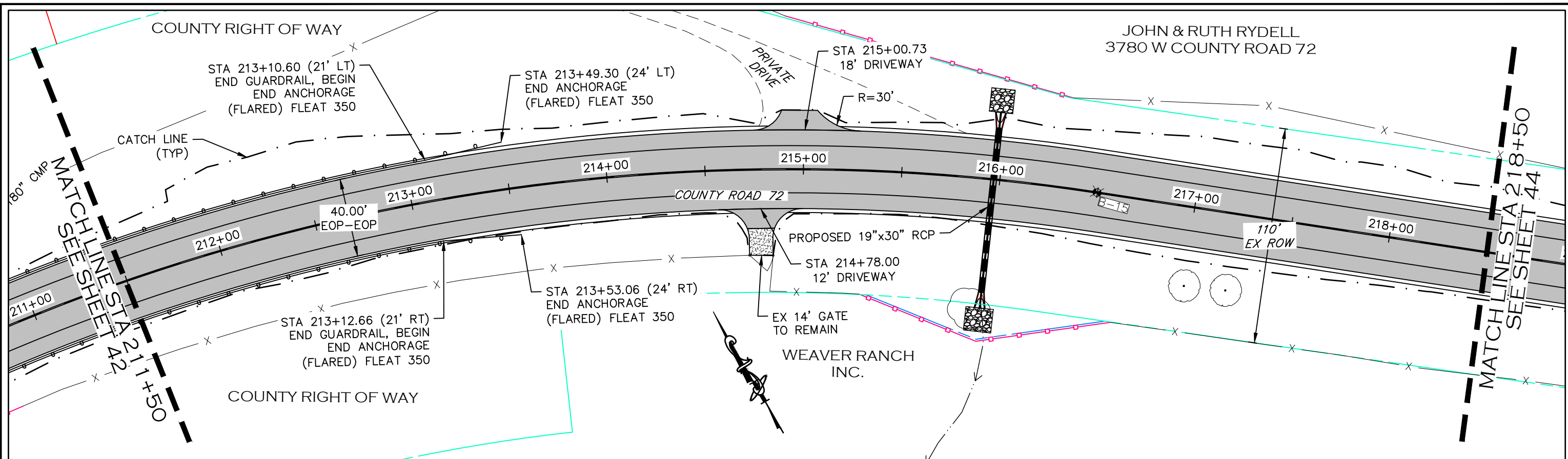


ENGINEERING DEPARTMENT
 200 WEST OAK, SUITE 3000
 POST OFFICE BOX 1190
 FORT COLLINS, COLORADO 80522-1190
 (970)498-5700
 (970)498-7986 FAX

AS CONSTRUCTED
NO REVISIONS:
REVISED:
VOID:

PLAN & PROFILE
STATION 204+50 TO 211+50

PROJECT NO. 335
LARIMER COUNTY ROAD 72
SHEET NO. 42



NOTE

1. ALL DRIVEWAY RADII ARE 15 FEET UNLESS OTHERWISE NOTED.
2. GUARDRAIL SHALL BE MIDWEST GUARDRAIL SYSTEM TYPE 3 W BEAM WITH GALVANIZED STEEL RAIL AND END SECTIONS. REFER TO CDOT M-606-1.
3. PROPOSED FENCE TO BE SET ON PROPOSED ROW. FENCES SHOWN 1' OFF PROPOSED ROW FOR GRAPHICAL PURPOSES.

- PROPOSED FENCE
- TEMPORARY CONSTRUCTION EASEMENT
- PROPOSED RIGHT-OF-WAY
- EXISTING RIGHT-OF-WAY
- EXISTING PROPERTY LINE

CALL UTILITY NOTIFICATION
CENTER OF COLORADO
811
CALL 2-BUSINESS DAYS IN ADVANCE
BEFORE YOU DIG, GRADE, OR EXCAVATE
FOR THE MARKING OF UNDERGROUND
MEMBER UTILITIES.

COMPUTER INFORMATION	
CREATION DATE:	07/13/20
MODIFICATION DATE:	02/01/21
FILE LOCATION:	INTERNET PROJECTS\2019 PROJECTS\1421-094-00 (LARIMER COUNTY ROAD 72)\DRAWINGS\ENGINEERING PLANS
FILE NAME:	1421-094-00 P&P.DWG

REVISIONS	
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(R-5)	



ENGINEERING DEPARTMENT
200 WEST OAK, SUITE 3000
POST OFFICE BOX 1190
FORT COLLINS, COLORADO 80522-1190
(970)498-5700
(970)498-7986 FAX

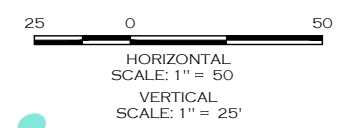
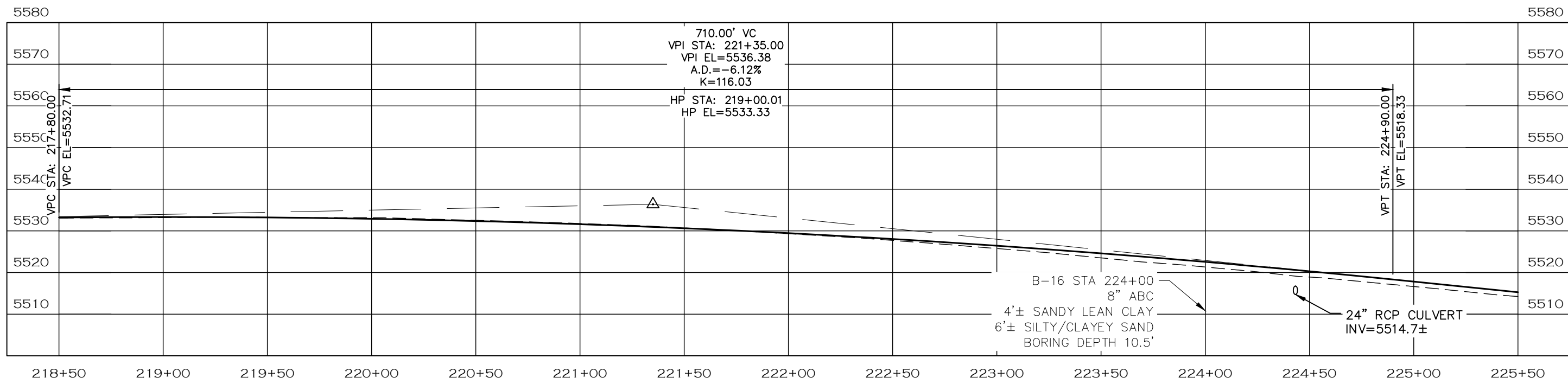
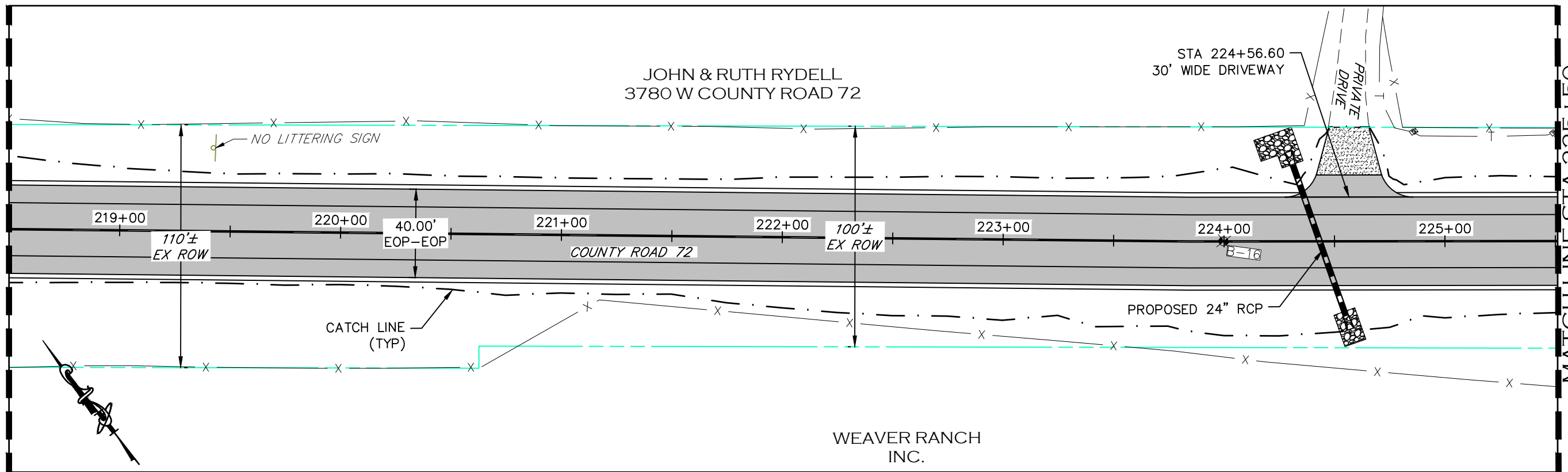
AS CONSTRUCTED
NO REVISIONS:
REVISED:
VOID:

**PLAN & PROFILE
STATION 211+50 TO 218+50**

PROJECT NO. 335
LARIMER COUNTY ROAD 72
SHEET NO. 43

MATCHLINE STA 218+50
SEE SHEET 43

MATCHLINE STA 225+50
SEE SHEET 45



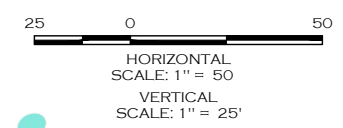
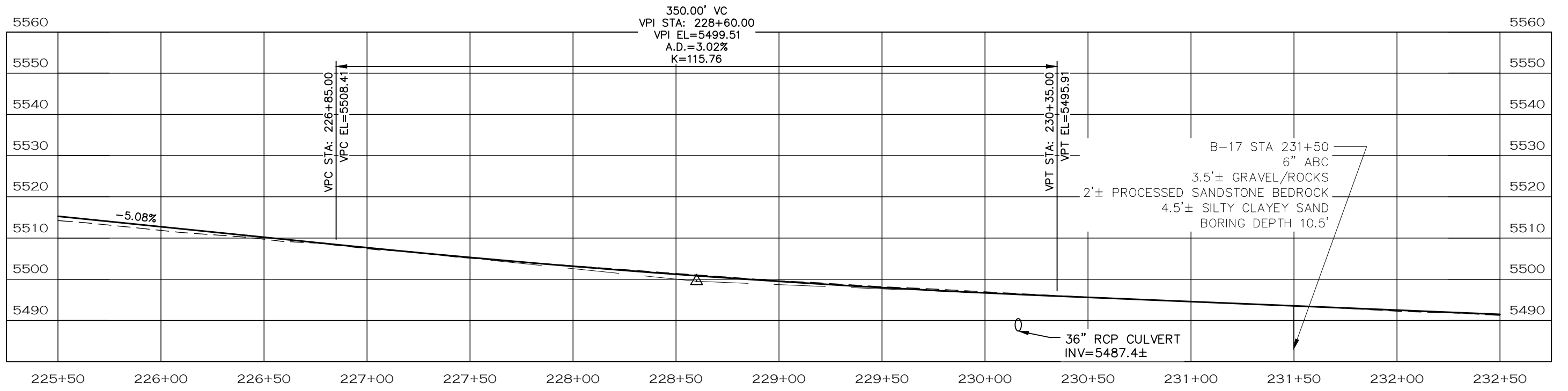
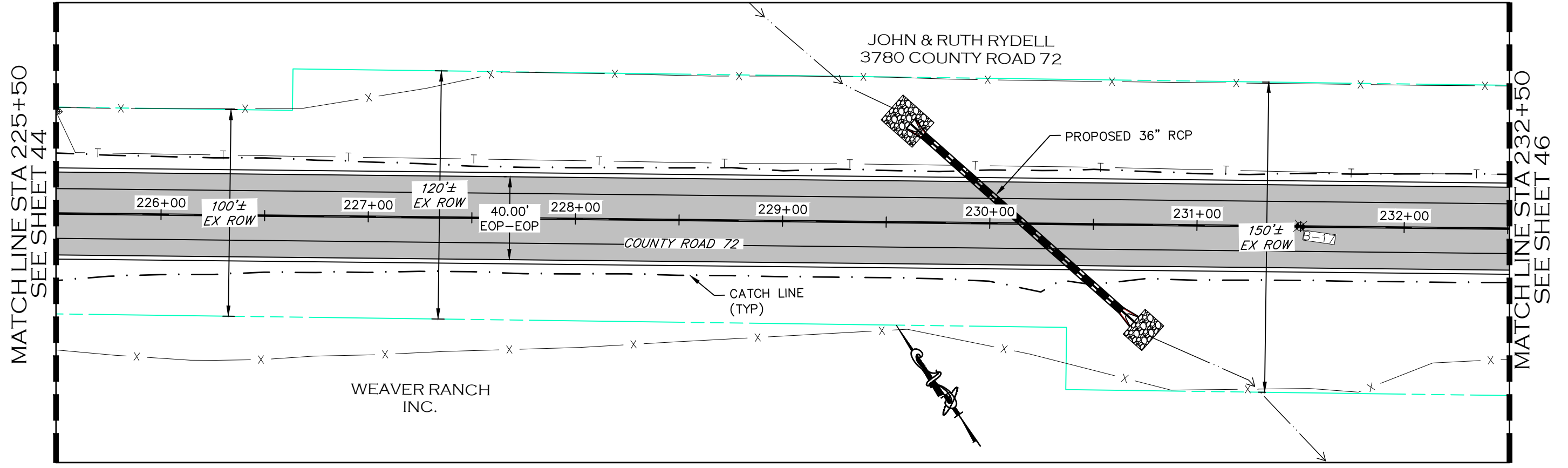
NOTE

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- PROPOSED FENCE
- TEMPORARY CONSTRUCTION EASEMENT
- PROPOSED RIGHT-OF-WAY
- EXISTING RIGHT-OF-WAY
- EXISTING PROPERTY LINE

CALL UTILITY NOTIFICATION
CENTER OF COLORADO
811
CALL 2-BUSINESS DAYS IN ADVANCE
BEFORE YOU DIG, GRADE, OR EXCAVATE
FOR THE MARKING OF UNDERGROUND
MEMBER UTILITIES.

COMPUTER INFORMATION	REVISIONS		AS CONSTRUCTED	PROJECT NO. 335										
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(R-3)														
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MODIFICATION DATE: 02/01/21		200 WEST OAK, SUITE 3000	REVISED:	STATION 218+50 TO 225+50										
FILE LOCATION: I:\PROJECTS\2019 PROJECTS\1421-094-00 (LARIMER COUNTY ROAD 72)\DRAWINGS\ENGINEERING PLANS		FORT COLLINS, COLORADO 80522-1190	VOID:	LARIMER COUNTY ROAD 72										
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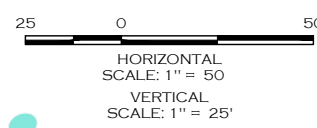
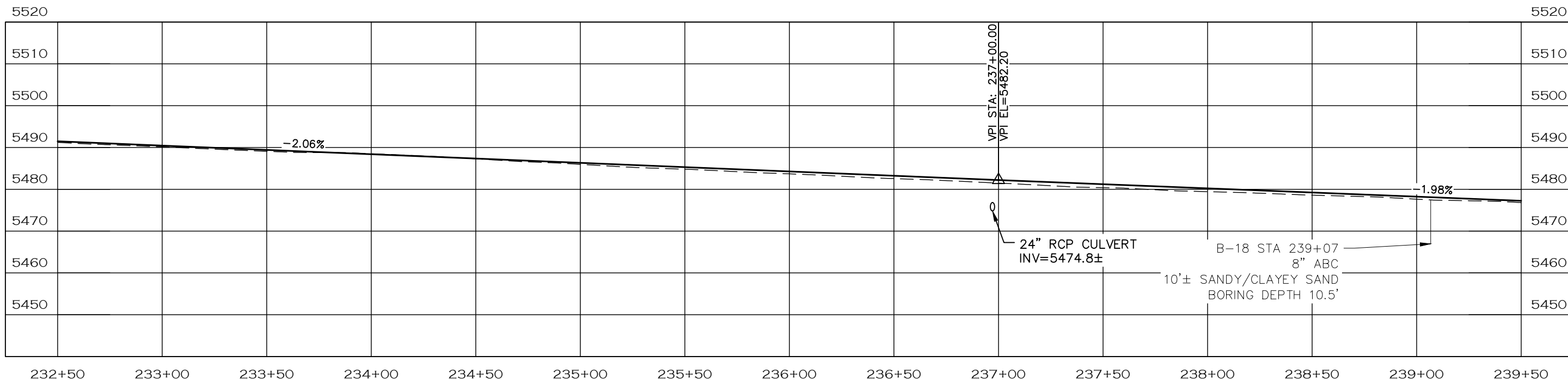
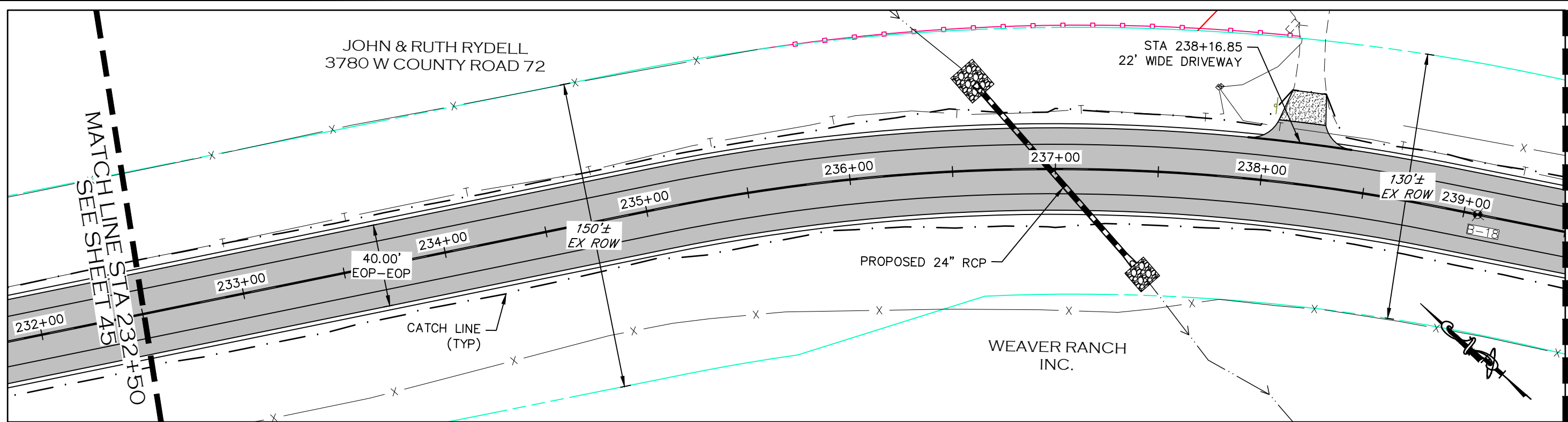


- NOTE**
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- PROPOSED FENCE
- TEMPORARY CONSTRUCTION EASEMENT
- PROPOSED RIGHT-OF-WAY
- EXISTING RIGHT-OF-WAY
- EXISTING PROPERTY LINE

CALL UTILITY NOTIFICATION CENTER OF COLORADO
811
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COMPUTER INFORMATION		REVISIONS		<p>LARIMER COUNTY ENGINEERING DEPARTMENT 200 WEST OAK, SUITE 3000 POST OFFICE BOX 1190 FORT COLLINS, COLORADO 80522-1190 (970)498-5700 (970)498-7986 FAX</p>	AS CONSTRUCTED	<p>PLAN & PROFILE STATION 225+50 TO 232+50</p>	PROJECT NO. 335	
CREATION DATE:	07/13/20				NO REVISIONS:		<p>LARIMER COUNTY ROAD 72</p>	<p>SHEET NO. 45</p>
MODIFICATION DATE:	02/01/21				REVISED:			
FILE LOCATION:	INTEREST PROJECTS\2019 PROJECTS\1421-094-00 (LARIMER COUNTY ROAD 72)\DRAWINGS\ENGINEERING PLANS				VOID:			
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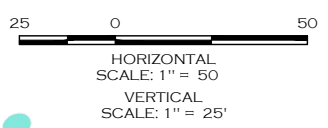
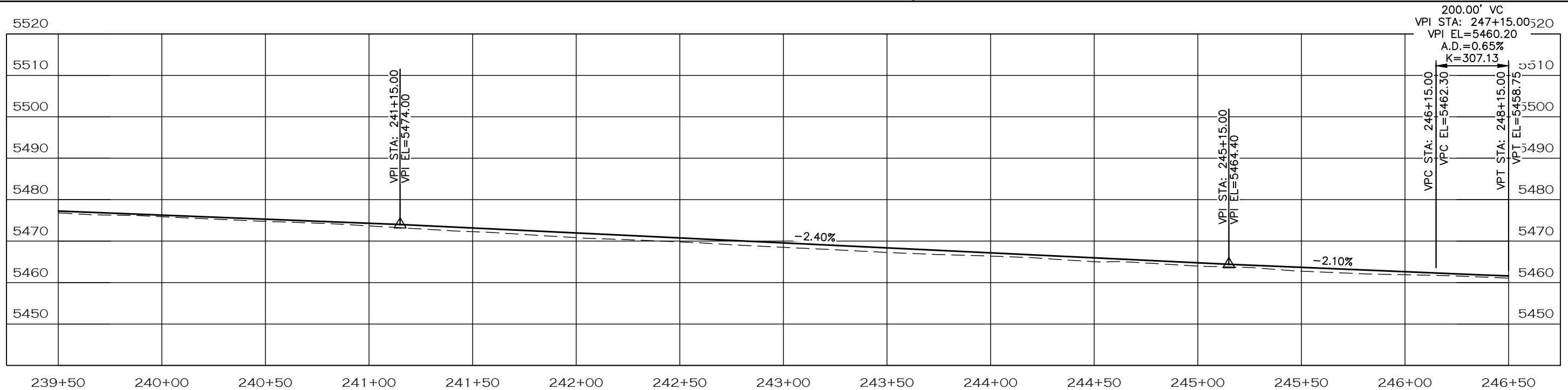
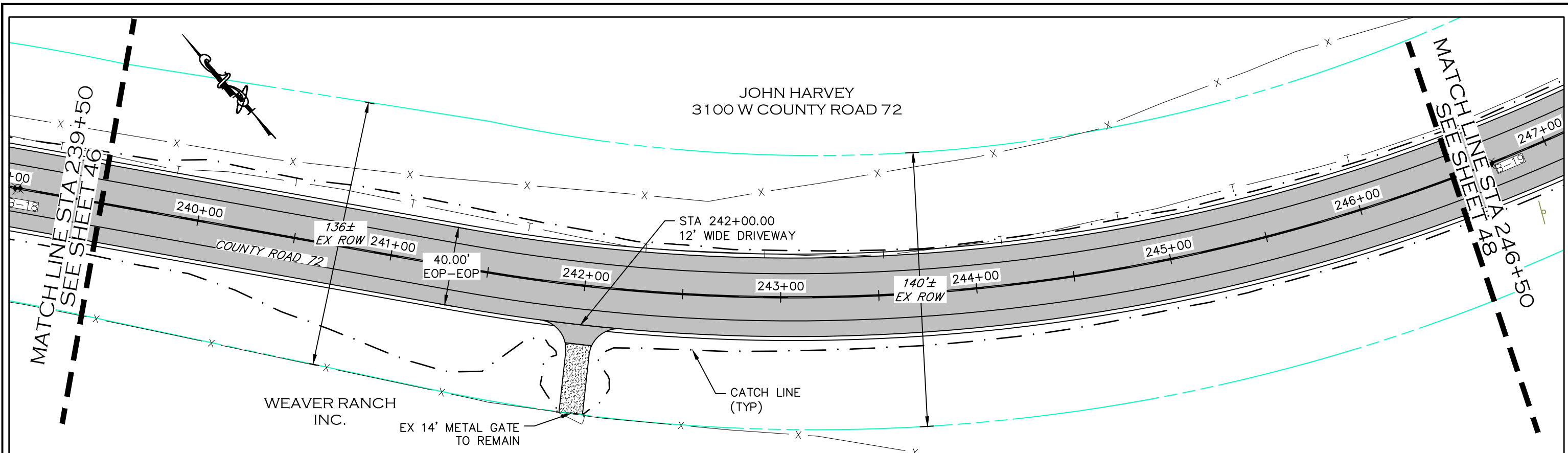


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1. ALL DRIVEWAY RADII ARE 15 FEET UNLESS OTHERWISE NOTED.
 2. PROPOSED FENCE TO BE SET ON PROPOSED ROW. FENCES SHOWN 1' OFF PROPOSED ROW FOR GRAPHICAL PURPOSES.

- PROPOSED FENCE
- - - - - TEMPORARY CONSTRUCTION EASEMENT
- - - - - PROPOSED RIGHT-OF-WAY
- - - - - EXISTING RIGHT-OF-WAY
- - - - - EXISTING PROPERTY LINE

CALL UTILITY NOTIFICATION
CENTER OF COLORADO
811
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COMPUTER INFORMATION	REVISIONS		AS CONSTRUCTED	PLAN & PROFILE	PROJECT NO. 335										
CREATION DATE: 07/13/20	<table border="1" style="width: 100%;"><tr><td style="width: 50px;">(R-1)</td><td></td></tr><tr><td>(R-2)</td><td></td></tr><tr><td>(R-3)</td><td></td></tr><tr><td>(R-4)</td><td></td></tr><tr><td>(R-5)</td><td></td></tr></table>	(R-1)		(R-2)		(R-3)		(R-4)		(R-5)		LARIMER COUNTY	NO REVISIONS:	STATION 232+50 TO 239+50	LARIMER COUNTY ROAD 72
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MODIFICATION DATE: 02/01/21		ENGINEERING DEPARTMENT	REVISED:												
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FILE NAME: 1421-094-00 P&P.DWG		FORT COLLINS, COLORADO 80522-1190			SHEET NO. 46										
		(970)498-5700													
		(970)498-7986 FAX													



- NOTE**
- ALL DRIVEWAY RADII ARE 15 FEET UNLESS OTHERWISE NOTED.
 - PROPOSED FENCE TO BE SET ON PROPOSED ROW. FENCES SHOWN 1' OFF PROPOSED ROW FOR GRAPHICAL PURPOSES.

- PROPOSED FENCE
- TEMPORARY CONSTRUCTION EASEMENT
- PROPOSED RIGHT-OF-WAY
- EXISTING RIGHT-OF-WAY
- EXISTING PROPERTY LINE

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811
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COMPUTER INFORMATION	
CREATION DATE:	07/13/20
MODIFICATION DATE:	02/01/21
FILE LOCATION:	WERNER PROJECTS\2019 PROJECTS\1421-094-00 (LARIMER COUNTY ROAD 72)\DRAWINGS\ENGINEERING PLANS
FILE NAME:	1421-094-00 P&P.DWG

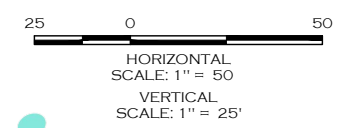
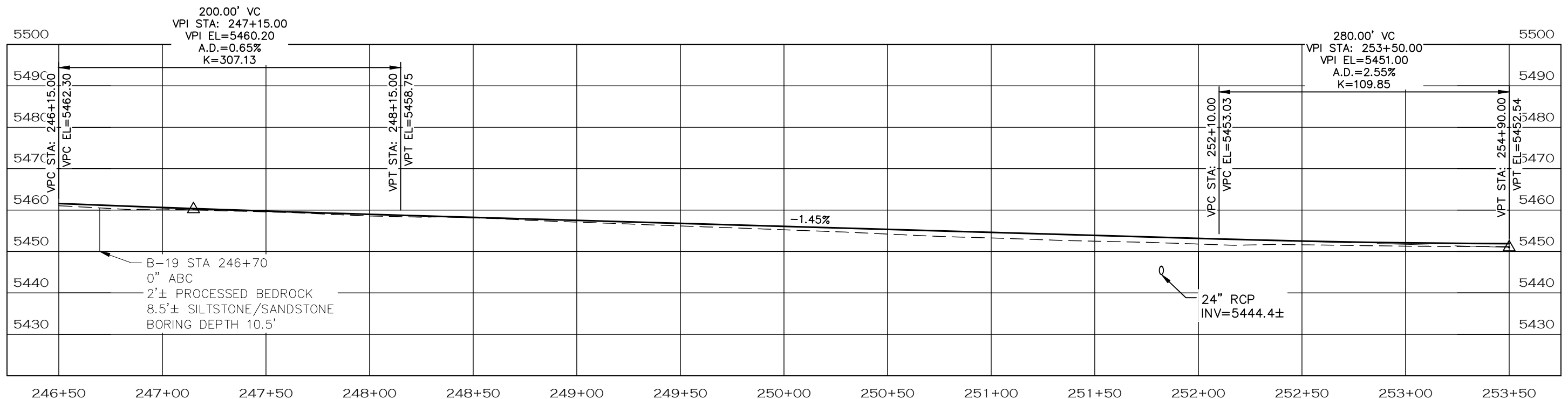
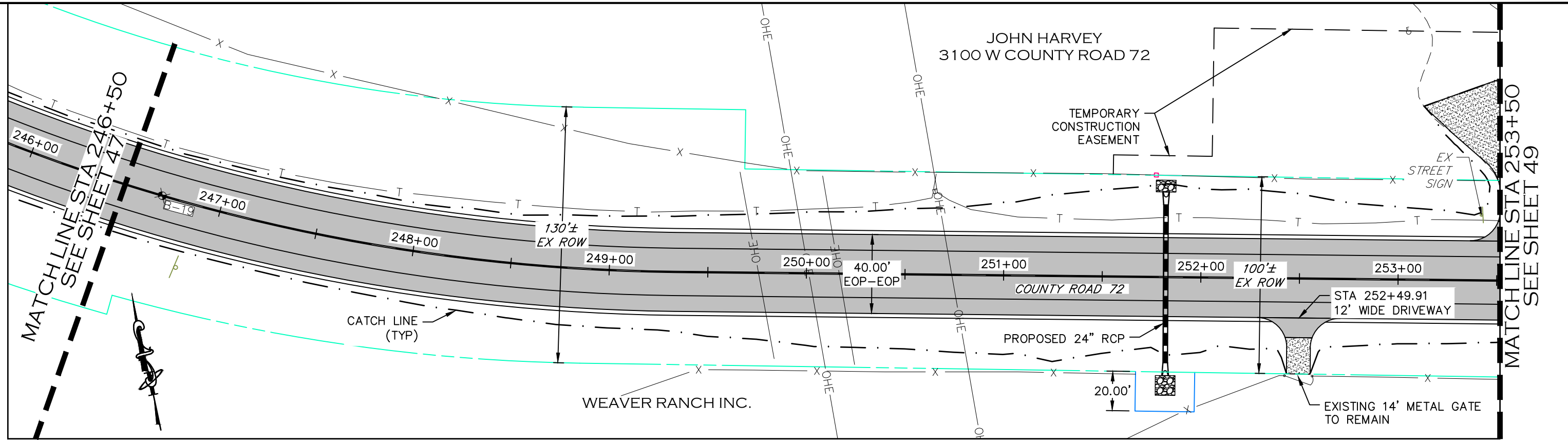
REVISIONS	
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LARIMER COUNTY ENGINEERING DEPARTMENT
 200 WEST OAK, SUITE 3000
 POST OFFICE BOX 1190
 FORT COLLINS, COLORADO 80522-1190
 (970)498-5700
 (970)498-7986 FAX

AS CONSTRUCTED
NO REVISIONS:
REVISED:
VOID:

PLAN & PROFILE
STATION 239+50 TO 246+50

PROJECT NO. 335
LARIMER COUNTY ROAD 72
SHEET NO. 47



- NOTE**
1. ALL DRIVEWAY RADII ARE 15 FEET UNLESS OTHERWISE NOTED.
 2. PROPOSED FENCE TO BE SET ON PROPOSED ROW. FENCES SHOWN 1' OFF PROPOSED ROW FOR GRAPHICAL PURPOSES.

- PROPOSED FENCE
- TEMPORARY CONSTRUCTION EASEMENT
- PROPOSED RIGHT-OF-WAY
- EXISTING RIGHT-OF-WAY
- EXISTING PROPERTY LINE

CALL UTILITY NOTIFICATION
CENTER OF COLORADO
811
CALL 2-BUSINESS DAYS IN ADVANCE
BEFORE YOU DIG, GRADE, OR EXCAVATE
FOR THE MARKING OF UNDERGROUND
MEMBER UTILITIES.

COMPUTER INFORMATION	
CREATION DATE:	07/13/20
MODIFICATION DATE:	02/01/21
FILE LOCATION:	INTERNET PROJECTS\2019 PROJECTS\1421-094-00 (LARIMER COUNTY ROAD 72)\DRAWINGS\ENGINEERING PLANS
FILE NAME:	1421-094-00 P&P.DWG

REVISIONS	
(R-1)	
(R-2)	
(R-3)	
(R-4)	
(R-5)	



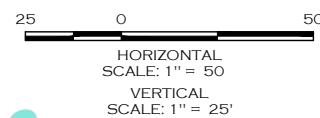
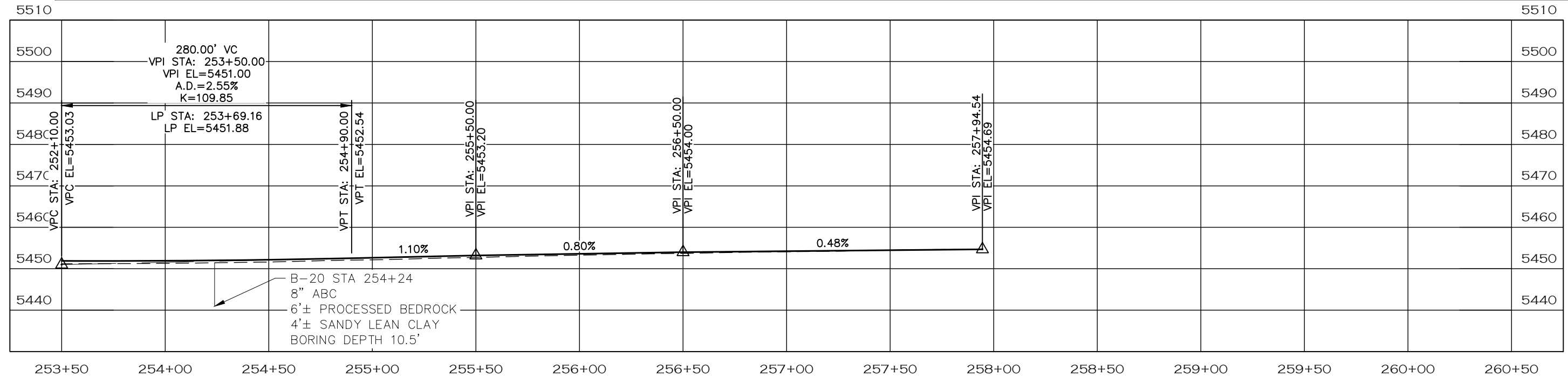
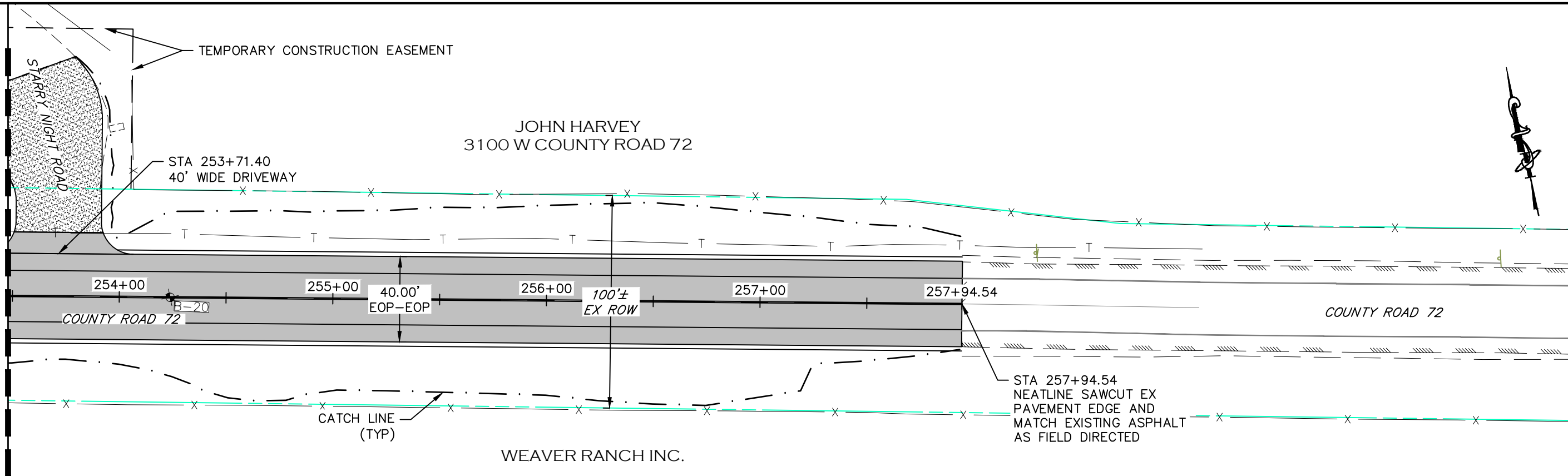
ENGINEERING DEPARTMENT
200 WEST OAK, SUITE 3000
POST OFFICE BOX 1190
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(970)498-5700
(970)498-7986 FAX

AS CONSTRUCTED
NO REVISIONS:
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VOID:

PLAN & PROFILE
STATION 246+50 TO 253+50

PROJECT NO. 335
LARIMER COUNTY ROAD 72
SHEET NO. 48

MATCHLINE STA 253+50
SEE SHEET 48



NOTE

1. ALL DRIVEWAY RADII ARE 15 FEET UNLESS OTHERWISE NOTED.
2. PROPOSED FENCE TO BE SET ON PROPOSED ROW. FENCES SHOWN 1' OFF PROPOSED ROW FOR GRAPHICAL PURPOSES.

- PROPOSED FENCE
- TEMPORARY CONSTRUCTION EASEMENT
- PROPOSED RIGHT-OF-WAY
- EXISTING RIGHT-OF-WAY
- EXISTING PROPERTY LINE

CALL UTILITY NOTIFICATION
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811
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MEMBER UTILITIES.

COMPUTER INFORMATION

CREATION DATE: 07/13/20
MODIFICATION DATE: 02/01/21
FILE LOCATION: I:\PROJECTS\2019 PROJECTS\1421-094-00 (LARIMER COUNTY ROAD 72)\DRAWINGS\ENGINEERING PLANS
FILE NAME: 1421-094-00 P&P.DWG

REVISIONS

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(R-3)	
(R-4)	
(R-5)	



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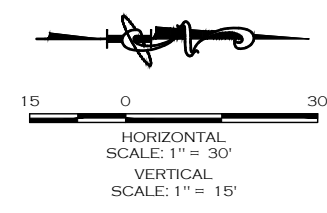
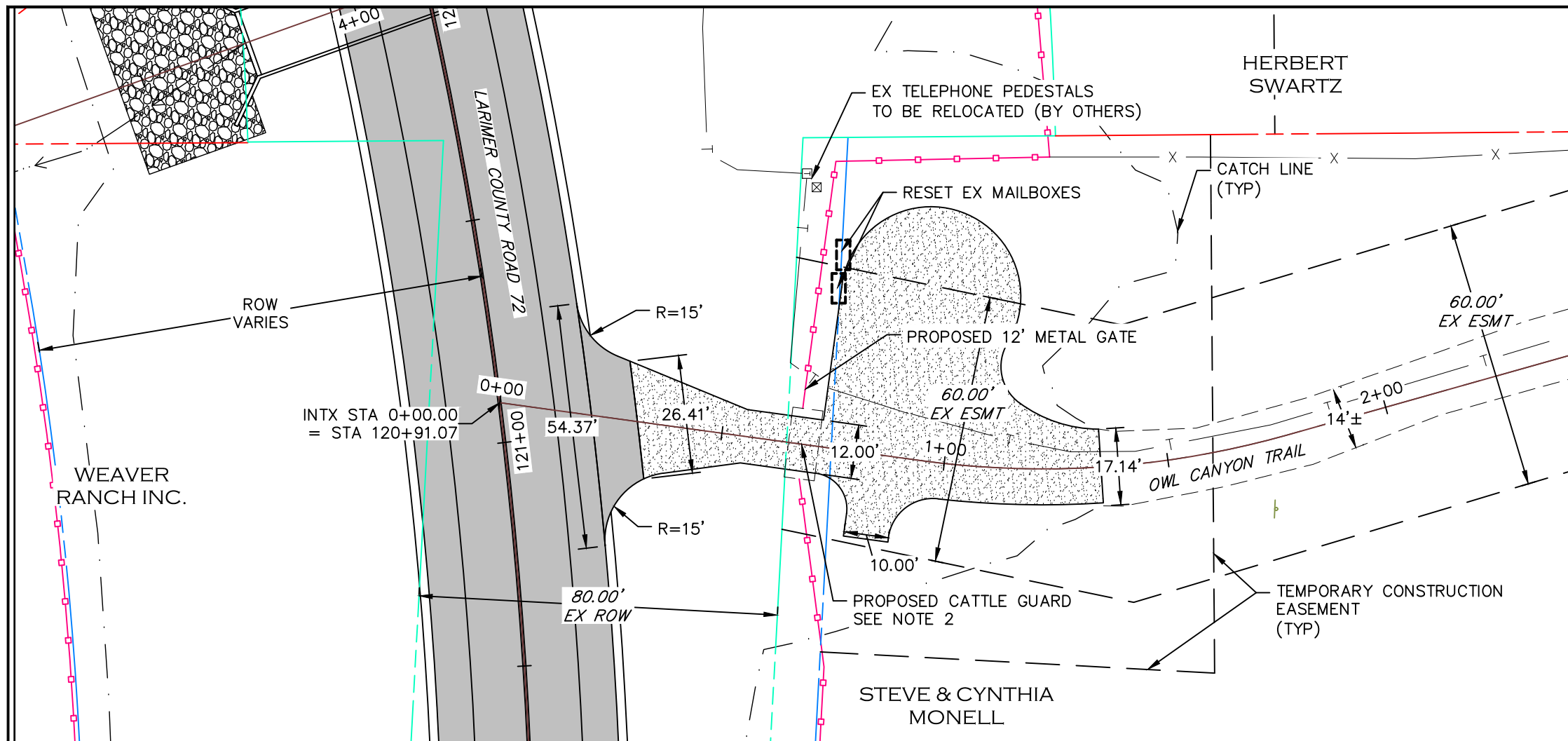
NO REVISIONS:
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VOID:

**PLAN & PROFILE
STATION 253+50 TO 257+95**

PROJECT NO. 335

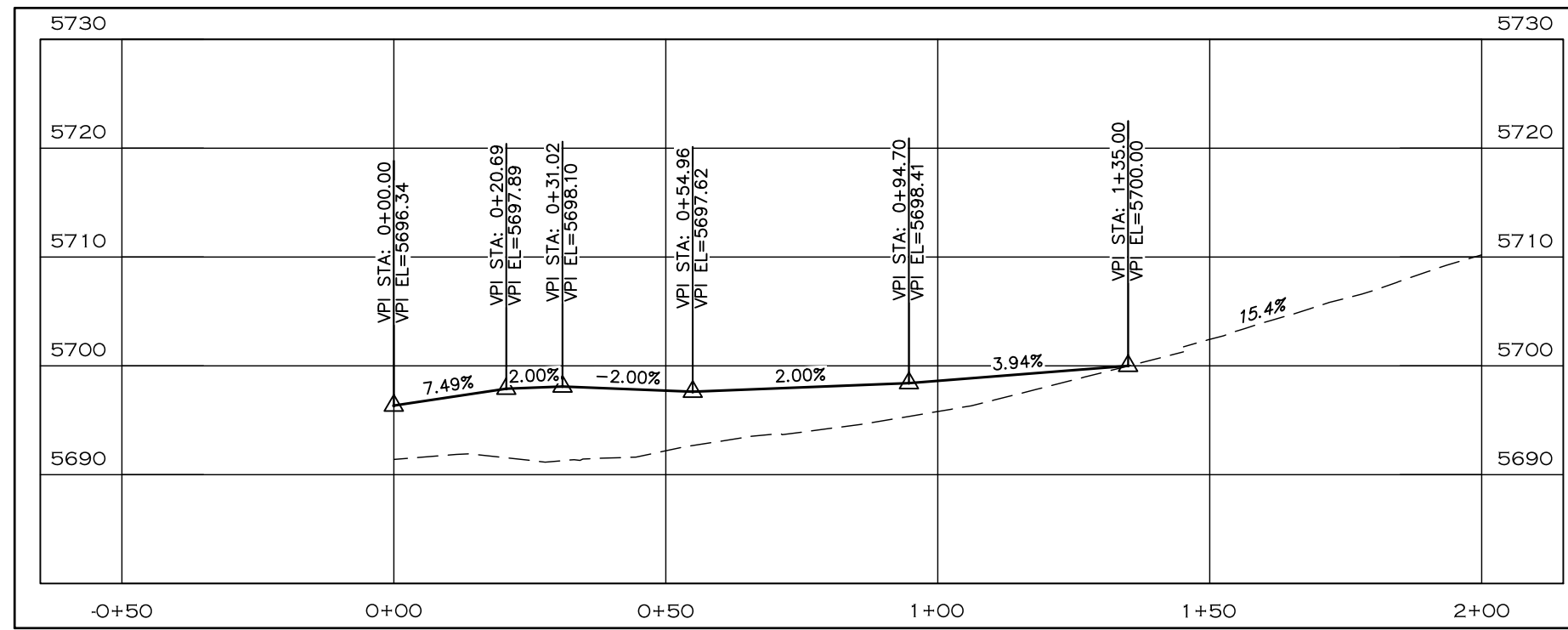
LARIMER COUNTY ROAD 72

SHEET NO. 49



NOTE

1. PROPOSED FENCE TO BE SET ON PROPOSED ROW. FENCES SHOWN 1' OFF PROPOSED ROW FOR GRAPHICAL PURPOSES.
2. INSTALL NEW PRECAST CONCRETE CATTLE GUARD BASE (7'x16'L), RESET EXISTING STEEL GRILL. CATTLE GUARD WITH CONCRETE BASE & STEEL RAILS (CO&WY) PER VAUGHN CONCRETE PRODUCTS, INC. OR APPROVED EQUAL. RESET EXISTING CATTLE GUARD GRATE ON NEW BASE.
3. SET NEW 12' METAL GATE ON WEST SIDE OF CATTLE GUARD, CONSTRUCT NEW STEEL WING ON EAST SIDE TO CONNECT TO PROPOSED FENCE.



- PROPOSED FENCE
- - - - - TEMPORARY CONSTRUCTION EASEMENT
- - - - - PROPOSED RIGHT-OF-WAY
- - - - - EXISTING RIGHT-OF-WAY
- - - - - EXISTING PROPERTY LINE



CALL UTILITY NOTIFICATION
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CALL 2-BUSINESS DAYS IN ADVANCE
BEFORE YOU DIG, GRADE, OR EXCAVATE
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MEMBER UTILITIES.

COMPUTER INFORMATION	
CREATION DATE:	07/13/20
MODIFICATION DATE:	01/07/21
FILE LOCATION:	INTEREST PROJECTS\2019 PROJECTS\1421-094-00 (LARIMER COUNTY ROAD 72)\DRAWINGS\ENGINEERING PLANS
FILE NAME:	1421-094-00 OC-P&P.DWG

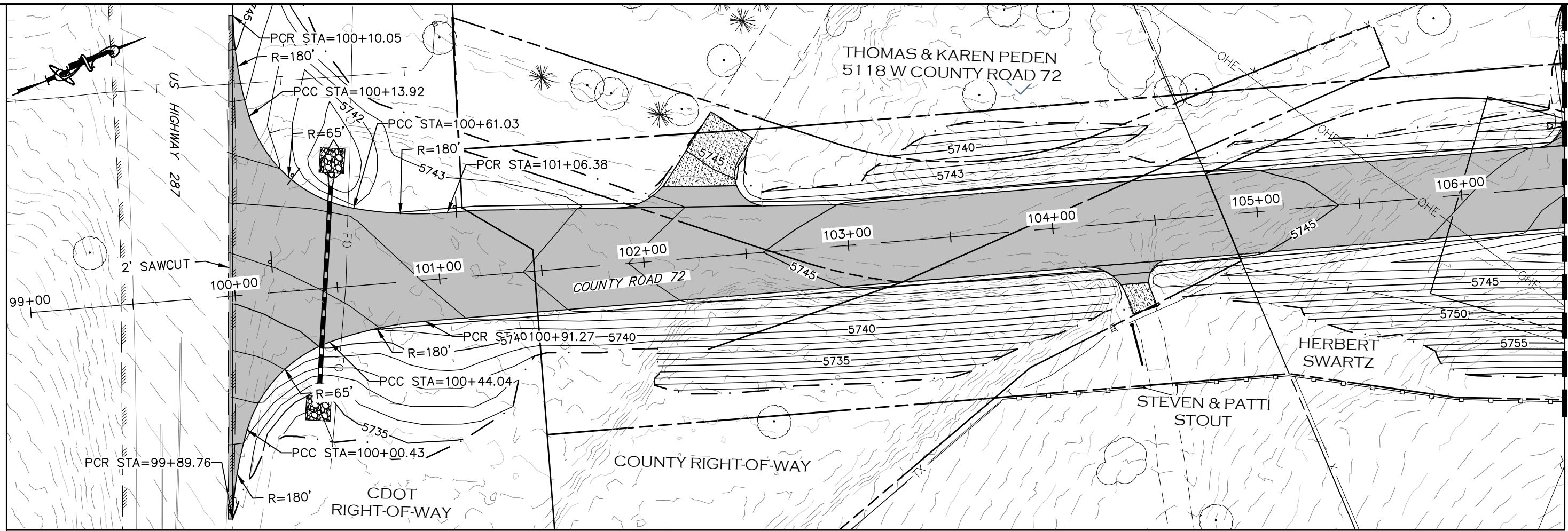
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(R-2)	
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LARIMER COUNTY ENGINEERING DEPARTMENT
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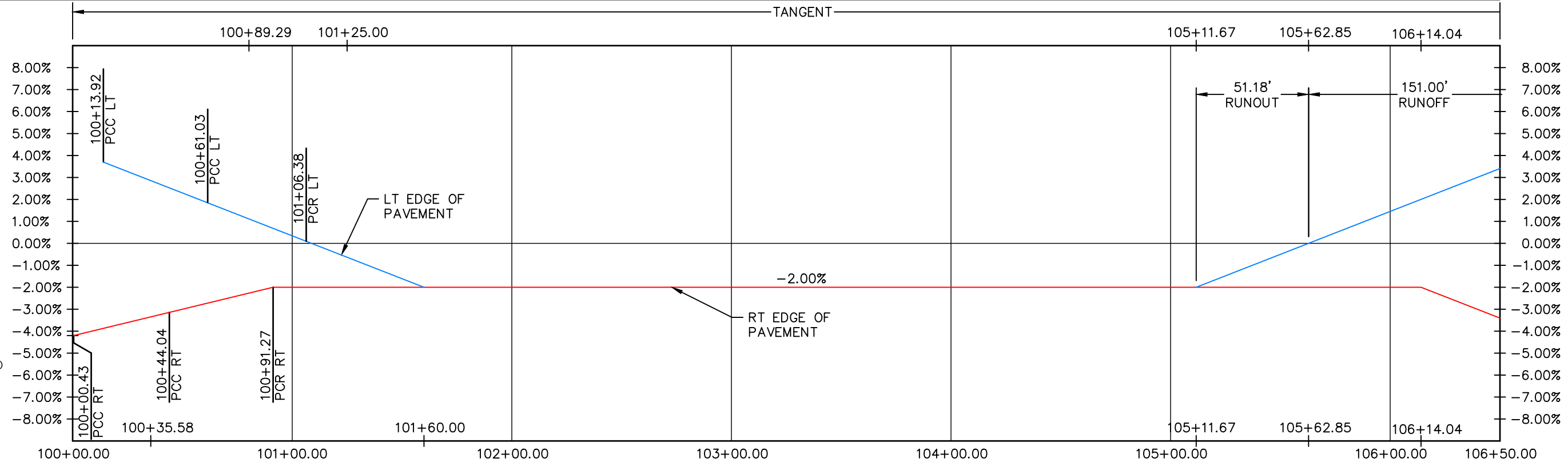
AS CONSTRUCTED
NO REVISIONS:
REVISED:
VOID:

**OWL CANYON TRAIL
PLAN & PROFILE**

PROJECT NO. 335
LARIMER COUNTY ROAD 72
SHEET NO. 50



MATCHLINE STA 106+50
SEE SHEET 52



COMPUTER INFORMATION	
CREATION DATE:	07/13/20
MODIFICATION DATE:	02/01/21
FILE LOCATION:	INTEREST PROJECTS\2019 PROJECTS\1421-094-00 (LARIMER COUNTY ROAD 72)\DRAWINGS\ENGINEERING PLANS
FILE NAME:	1421-094-00 SUPERELEV.DWG

REVISIONS	
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(R-3)	
(R-4)	
(R-5)	



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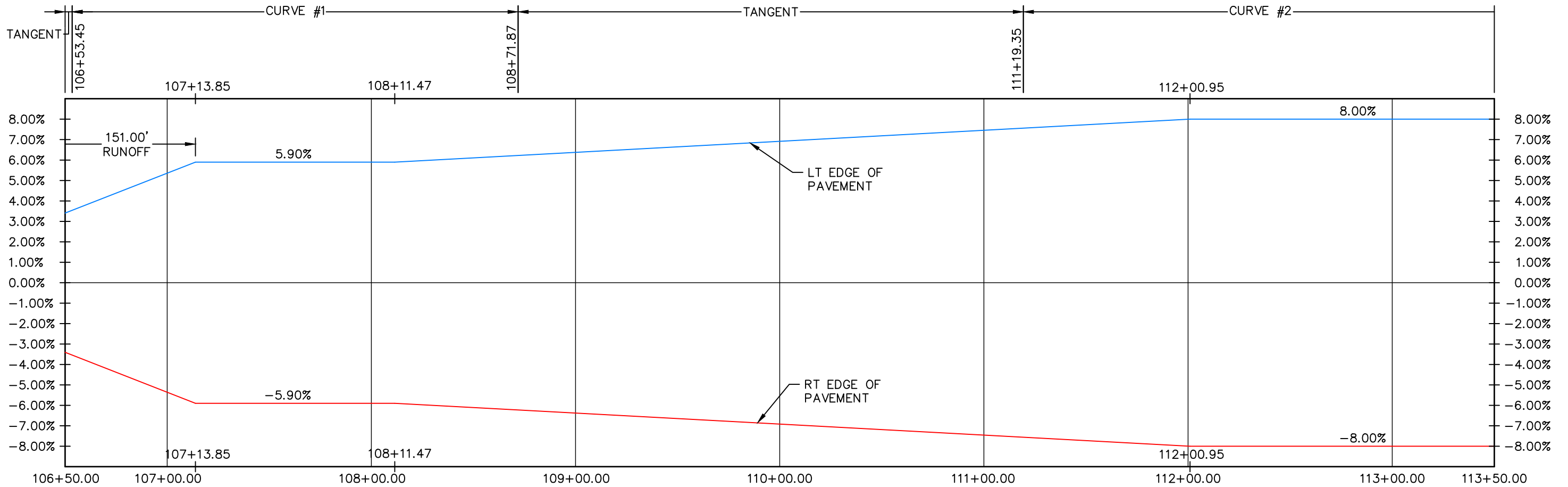
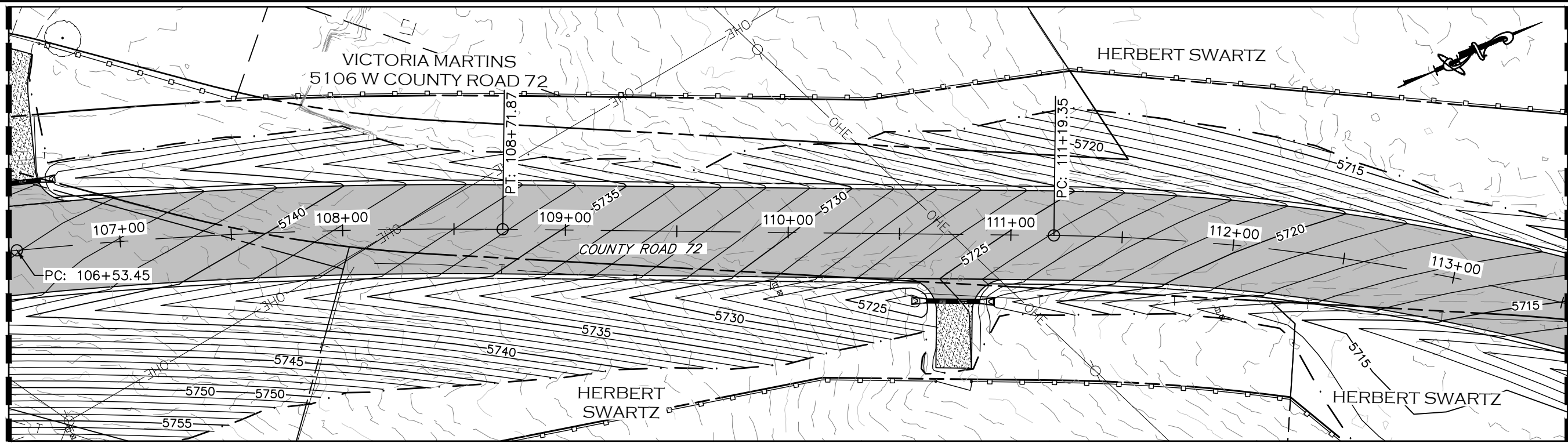
AS CONSTRUCTED
NO REVISIONS:
REVISED:
VOID:

**SUPERELEVATION PROFILE
STATION 100+00 TO 106+50**

PROJECT NO. 335
LARIMER COUNTY ROAD 72
SHEET NO. 51

MATCHLINE STA 106+50
SEE SHEET 51

MATCHLINE STA 113+50
SEE SHEET 53



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REVISIONS	
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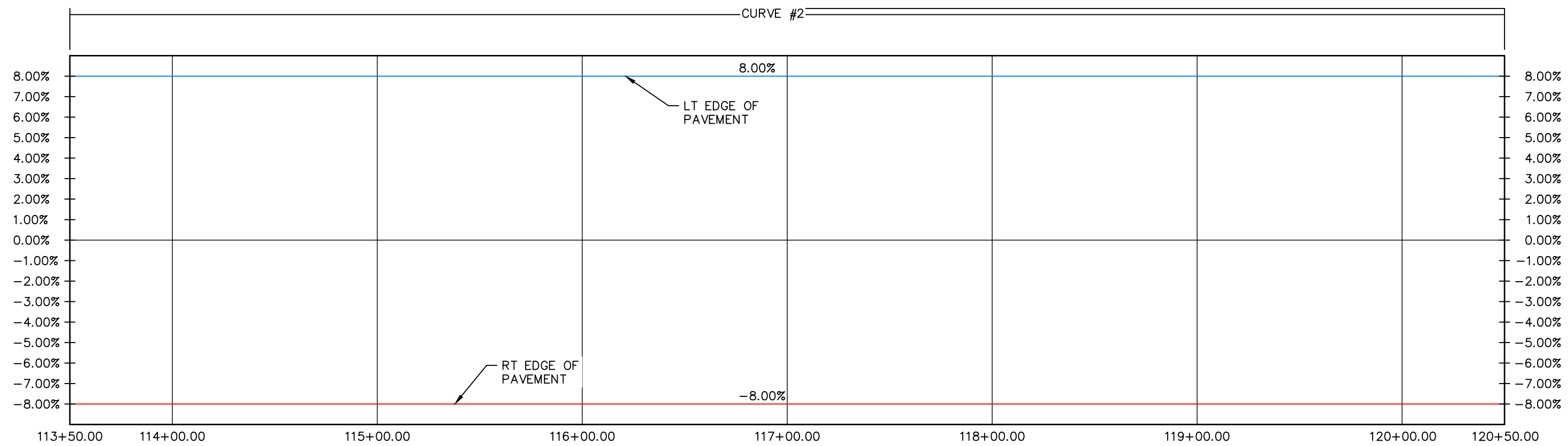
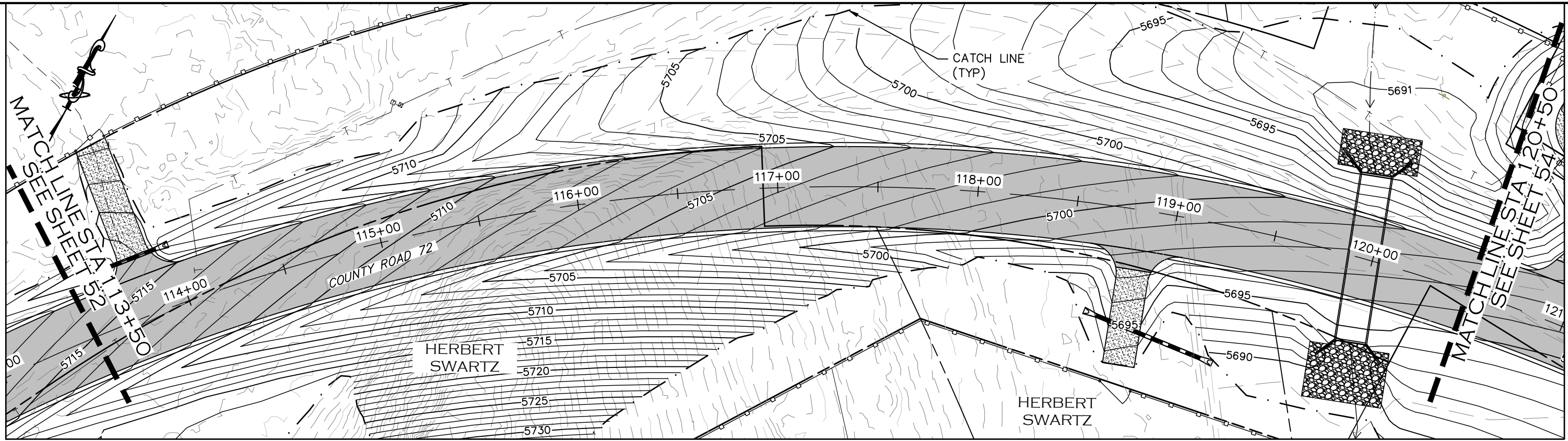


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**SUPERELEVATION PROFILE
STATION 106+50 TO 113+50**

PROJECT NO. 335
LARIMER COUNTY ROAD 72
SHEET NO. 52



CALL UTILITY NOTIFICATION
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COMPUTER INFORMATION	
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FILE NAME:	1421-094-00 SUPERELEV.DWG

REVISIONS	
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(R-2)	
(R-3)	
(R-4)	
(R-5)	



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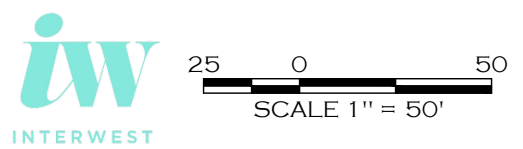
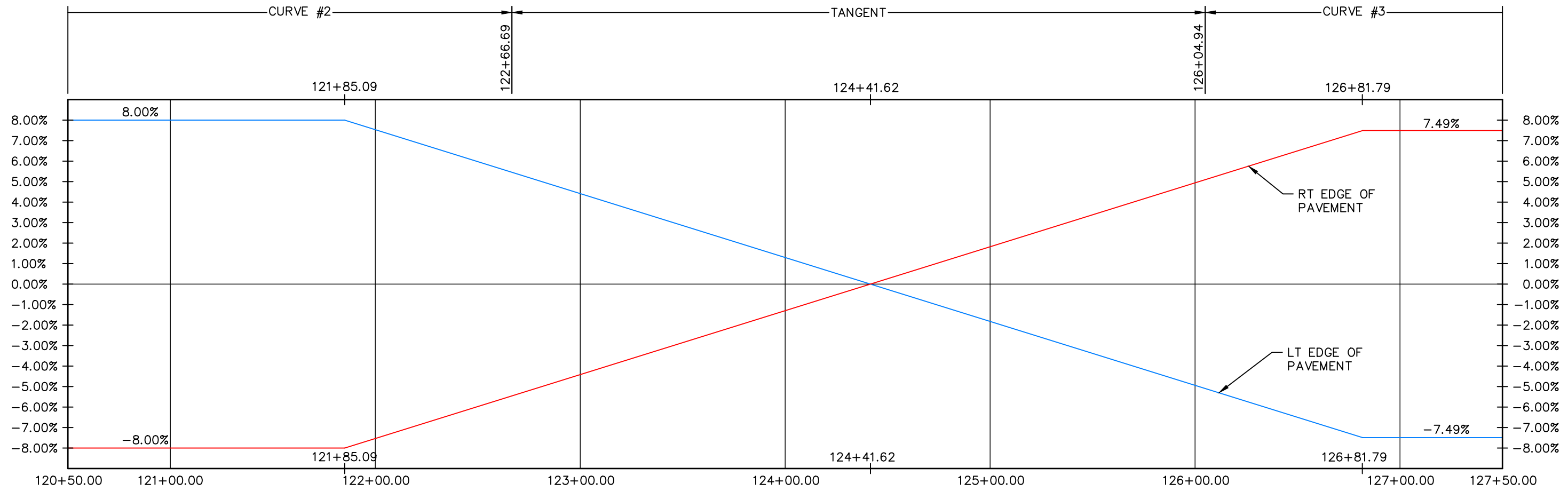
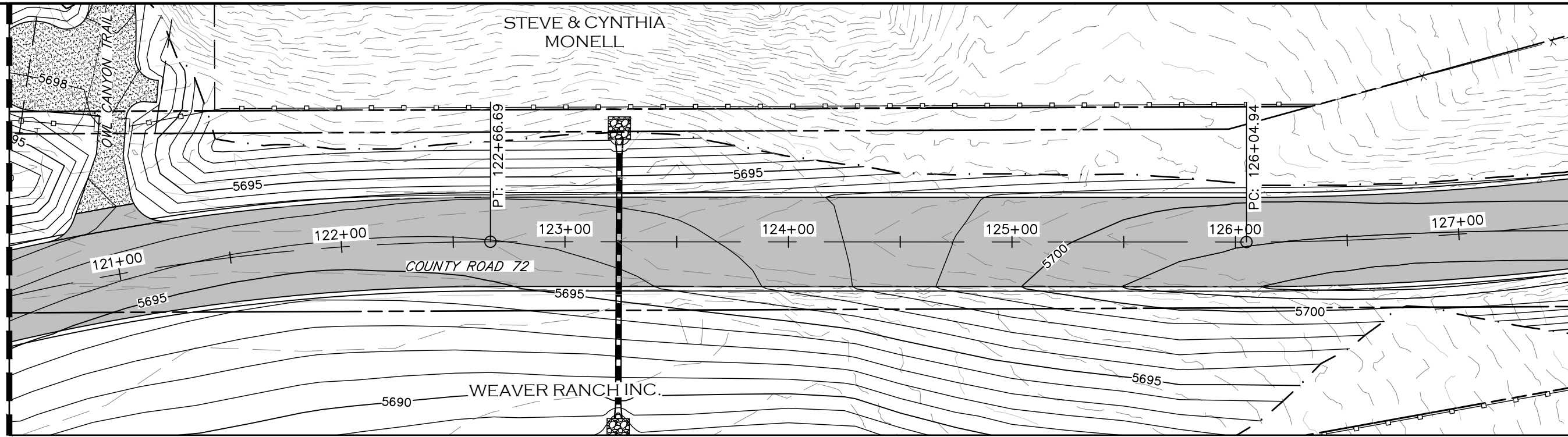
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NO REVISIONS:
REVISED:
VOID:

SUPERELEVATION PROFILE
STATION 113+50 TO 120+50

PROJECT NO. 335
LARIMER COUNTY ROAD 72
SHEET NO. 53

MATCHLINE STA 120+50
SEE SHEET 53

MATCHLINE STA 127+50
SEE SHEET 55



CALL UTILITY NOTIFICATION
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BEFORE YOU DIG, GRADE, OR EXCAVATE
FOR THE MARKING OF UNDERGROUND
MEMBER UTILITIES.

COMPUTER INFORMATION		REVISIONS	
CREATION DATE:	07/13/20	(R-1)	
MODIFICATION DATE:	02/01/21	(R-2)	
FILE LOCATION:	INTEREST PROJECTS\2019 PROJECTS\1421-094-00 (LARIMER COUNTY ROAD 72)\DRAWINGS\ENGINEERING PLANS	(R-3)	
FILE NAME:	1421-094-00 SUPERELEV.DWG	(R-4)	
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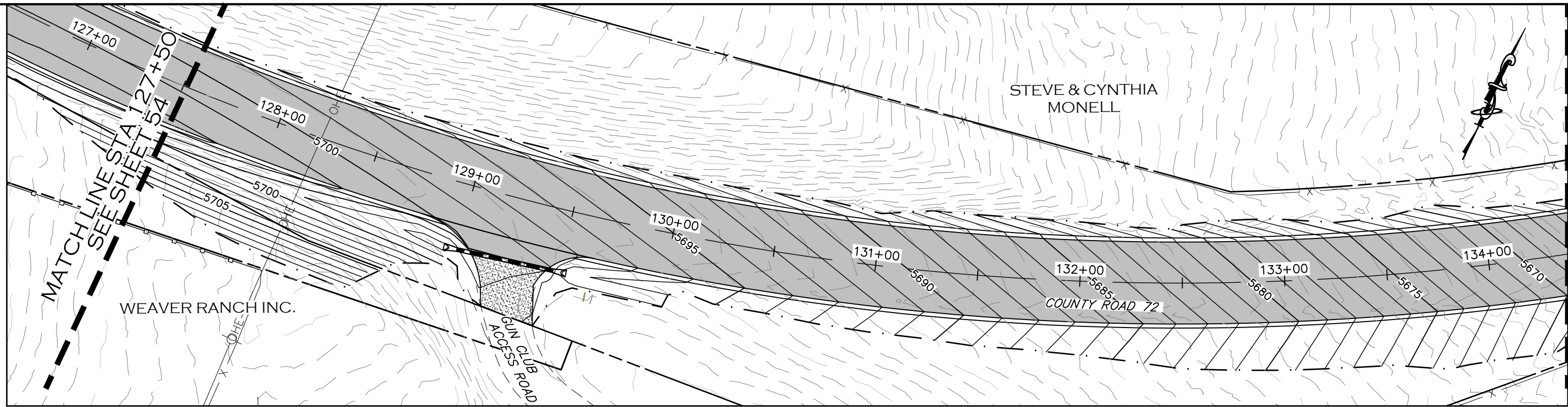


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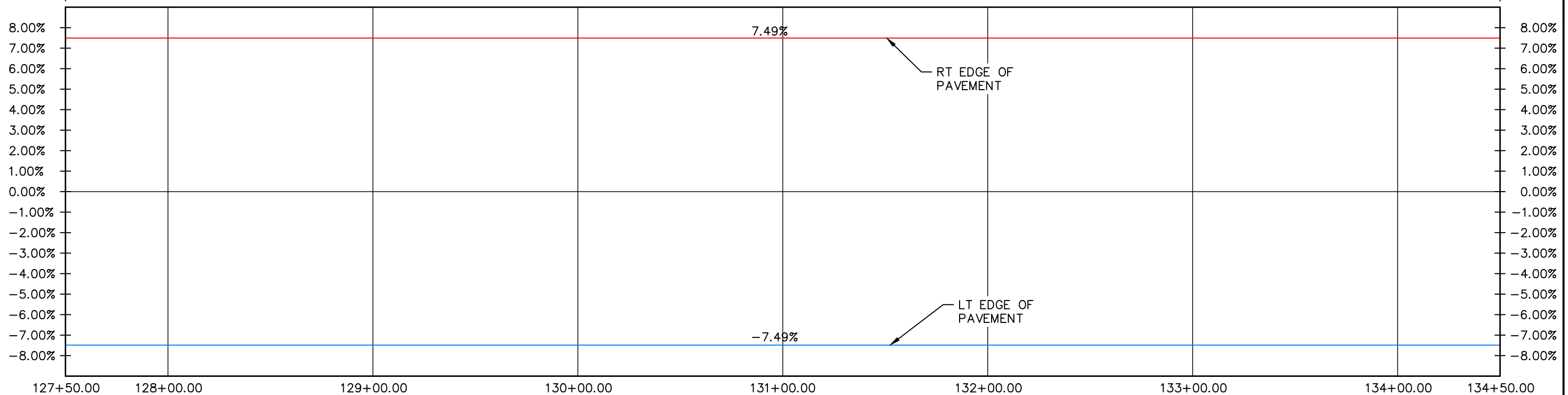
AS CONSTRUCTED
NO REVISIONS:
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VOID:

**SUPERELEVATION PROFILE
STATION 120+50 TO 127+50**

PROJECT NO. 335
LARIMER COUNTY ROAD 72
SHEET NO. 54



CURVE #3



CALL UTILITY NOTIFICATION
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FILE LOCATION:	INTEREST PROJECTS\2019 PROJECTS\1421-094-00 (LARIMER COUNTY ROAD 72)\DRAWINGS\ENGINEERING PLANS
FILE NAME:	1421-094-00 SUPERELEV.DWG

REVISIONS	
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(R-4)	
(R-5)	

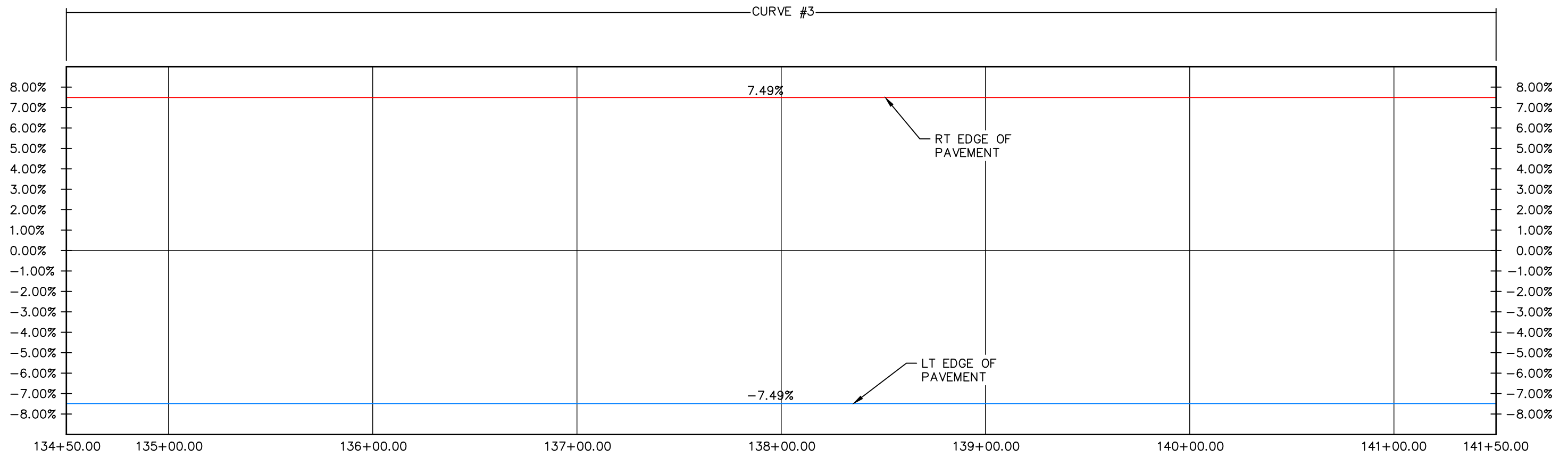
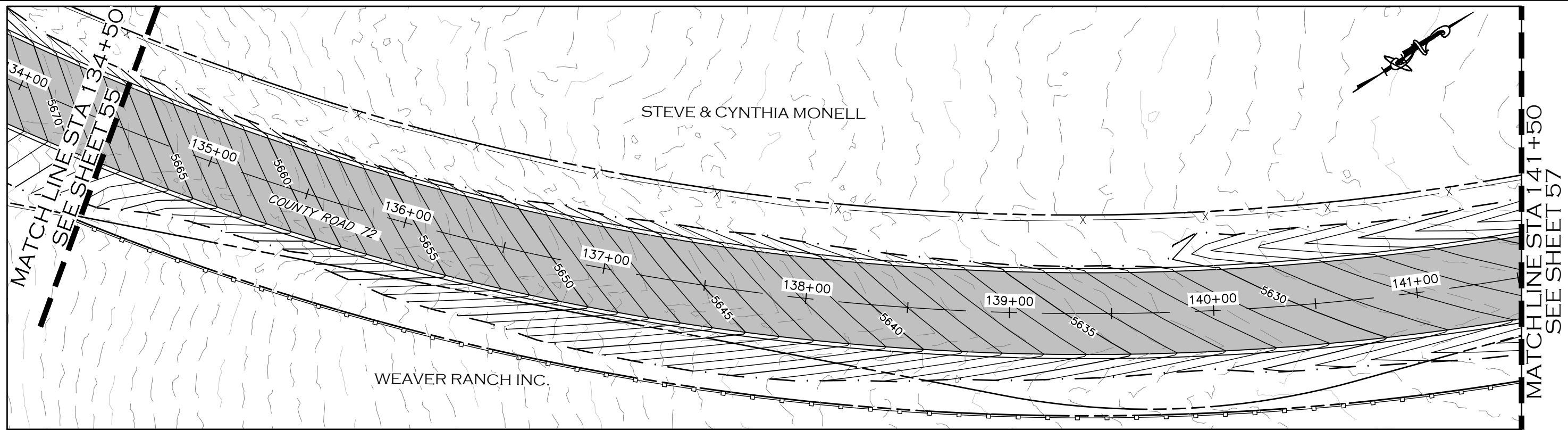


LARIMER COUNTY ENGINEERING DEPARTMENT
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**SUPERELEVATION PROFILE
STATION 127+50 TO 134+50**

PROJECT NO. 335
LARIMER COUNTY ROAD 72
SHEET NO. 55



CALL UTILITY NOTIFICATION
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CALL 2-BUSINESS DAYS IN ADVANCE
BEFORE YOU DIG, GRADE, OR EXCAVATE
FOR THE MARKING OF UNDERGROUND
MEMBER UTILITIES.

COMPUTER INFORMATION		REVISIONS	
CREATION DATE:	07/13/20	(R-1)	
MODIFICATION DATE:	02/01/21	(R-2)	
FILE LOCATION:	INTEREST PROJECTS\2019 PROJECTS\1421-094-00 (LARIMER COUNTY ROAD 72)\DRAWINGS\ENGINEERING PLANS	(R-3)	
FILE NAME:	1421-094-00 SUPERELEV.DWG	(R-4)	
		(R-5)	



LARIMER COUNTY ENGINEERING DEPARTMENT
200 WEST OAK, SUITE 3000
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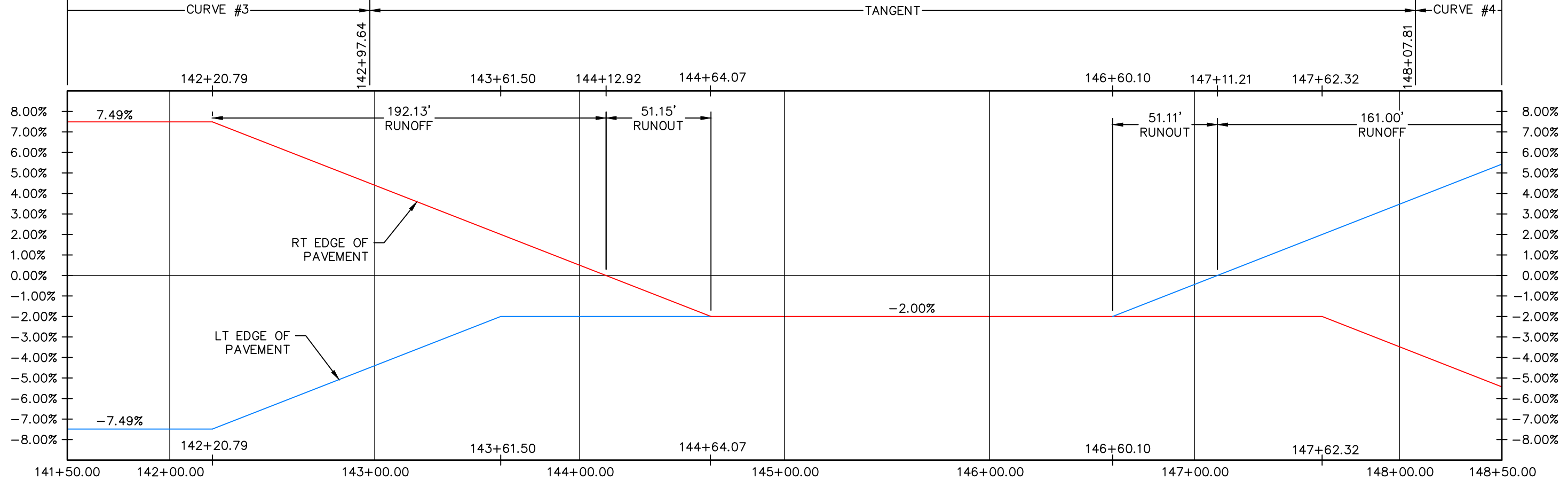
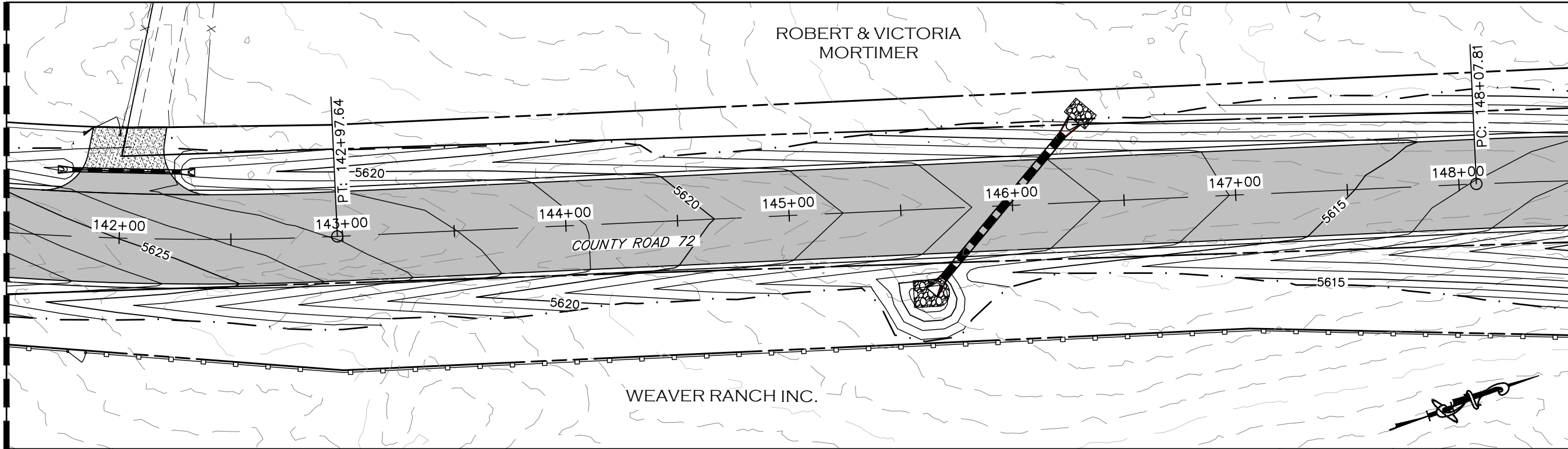
AS CONSTRUCTED
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VOID:

**SUPERELEVATION PROFILE
STATION 134+50 TO 141+50**

PROJECT NO. 335
LARIMER COUNTY ROAD 72
SHEET NO. 56

MATCHLINE STA 141+50
SEE SHEET 56

MATCHLINE STA 148+50
SEE SHEET 58



CALL UTILITY NOTIFICATION
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FILE NAME:	1421-094-00 SUPERELEV.DWG

REVISIONS	
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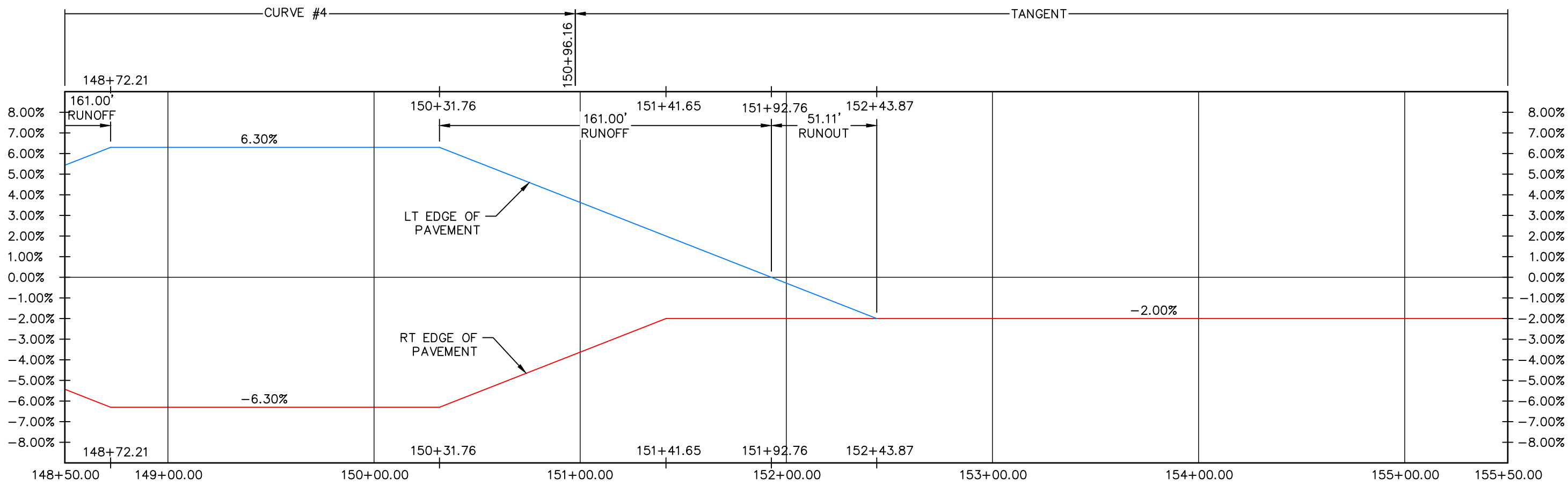
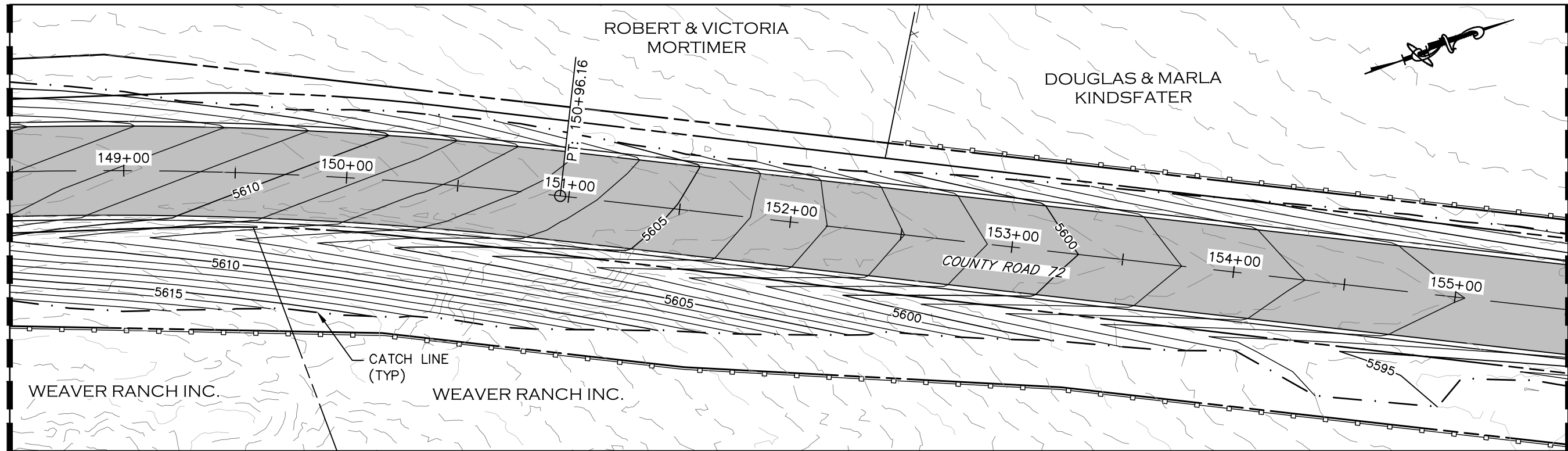
AS CONSTRUCTED
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VOID:

**SUPERELEVATION PROFILE
STATION 141+50 TO 148+50**

PROJECT NO. 335
LARIMER COUNTY ROAD 72
SHEET NO. 57

MATCHLINE STA 148+50
SEE SHEET 57

MATCHLINE STA 155+50
SEE SHEET 59



CALL UTILITY NOTIFICATION
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FILE NAME:	1421-094-00 SUPERELEV.DWG

REVISIONS	
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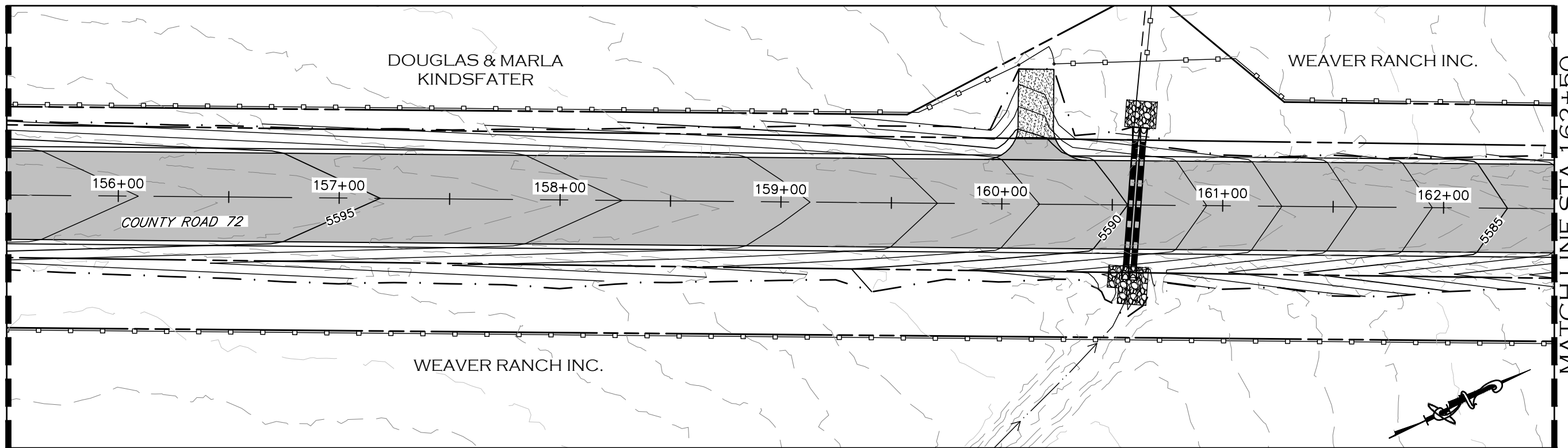
LARIMER COUNTY ENGINEERING DEPARTMENT
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NO REVISIONS:
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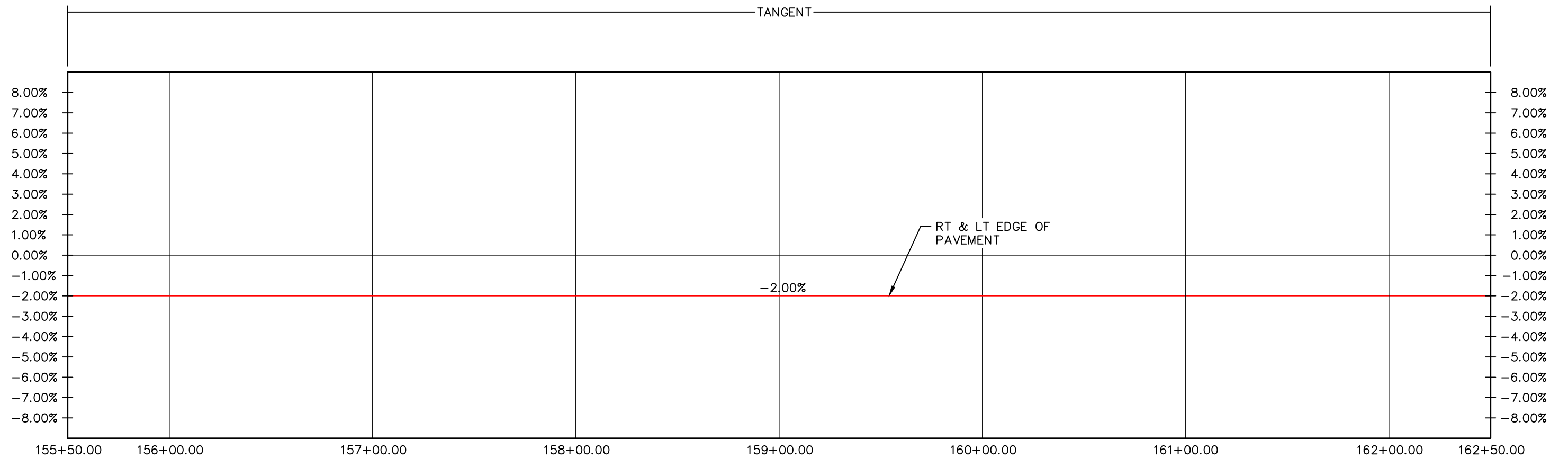
**SUPERELEVATION PROFILE
STATION 148+50 TO 155+50**

PROJECT NO. 335
LARIMER COUNTY ROAD 72
SHEET NO. 58

MATCHLINE STA 155+50
SEE SHEET 58



MATCHLINE STA 162+50
SEE SHEET 60



CALL UTILITY NOTIFICATION
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COMPUTER INFORMATION	
CREATION DATE:	07/13/20
MODIFICATION DATE:	02/01/21
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FILE NAME:	1421-094-00 SUPERELEV.DWG

REVISIONS	
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(R-3)	
(R-4)	
(R-5)	



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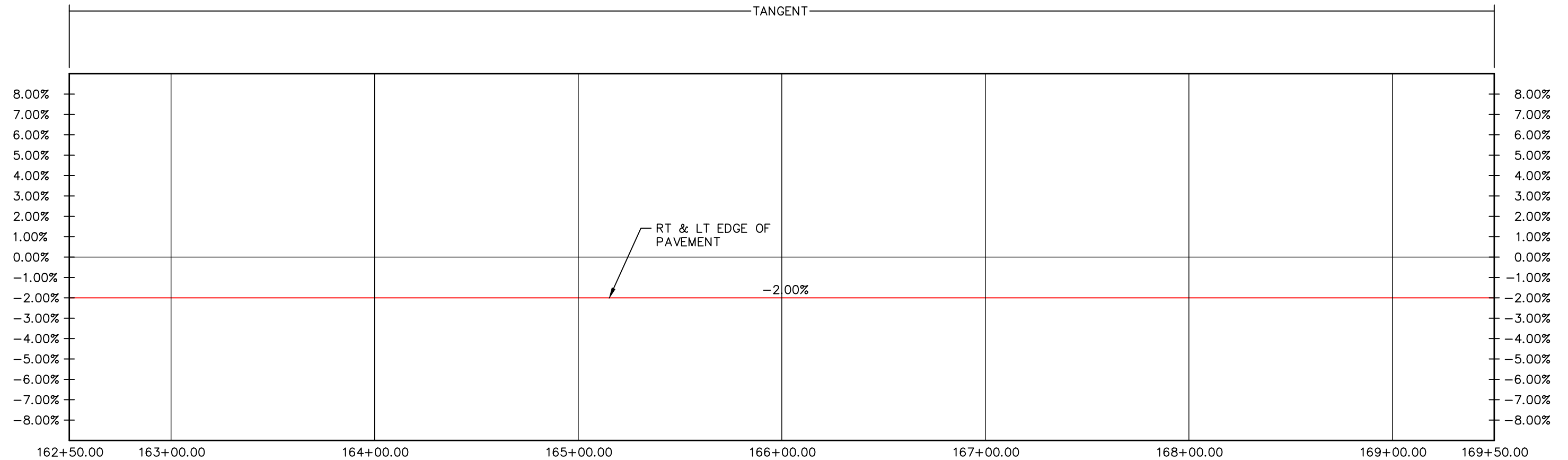
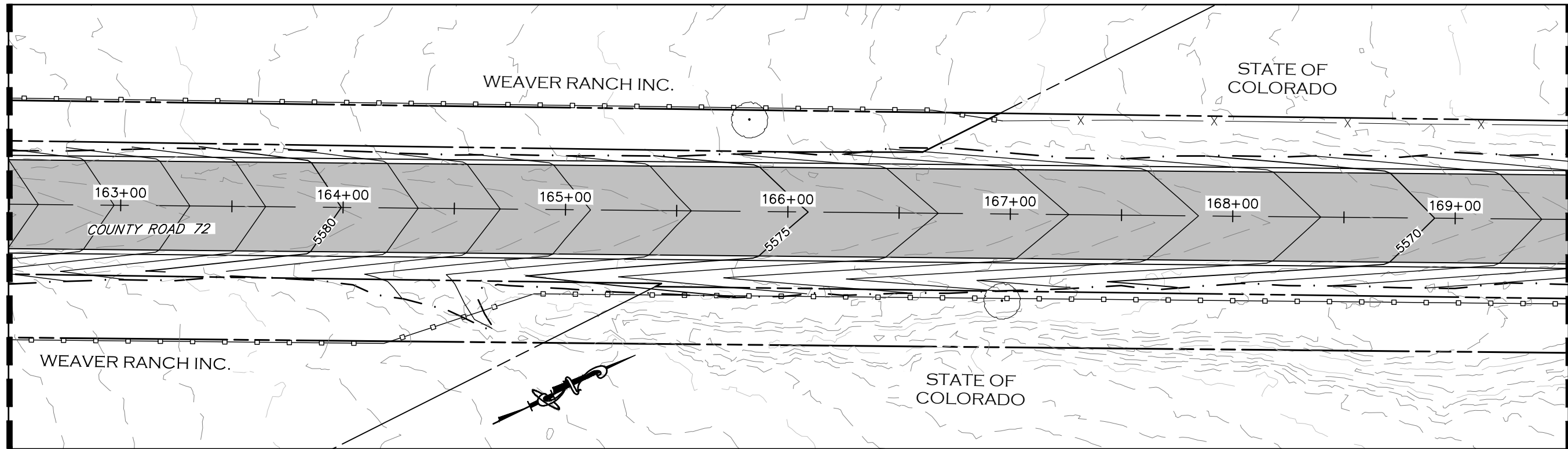
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VOID:

SUPERELEVATION PROFILE
STATION 155+50 TO 162+50

PROJECT NO. 335
LARIMER COUNTY ROAD 72
SHEET NO. 59

MATCHLINE STA 162+50
SEE SHEET 59

MATCHLINE STA 169+50
SEE SHEET 61



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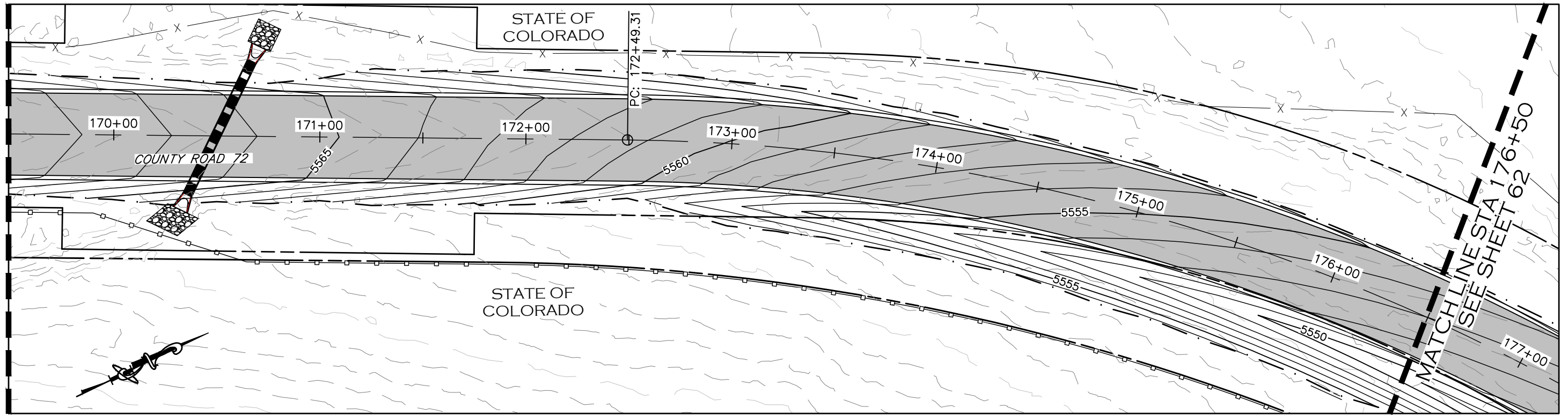
LARIMER COUNTY ENGINEERING DEPARTMENT
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VOID:

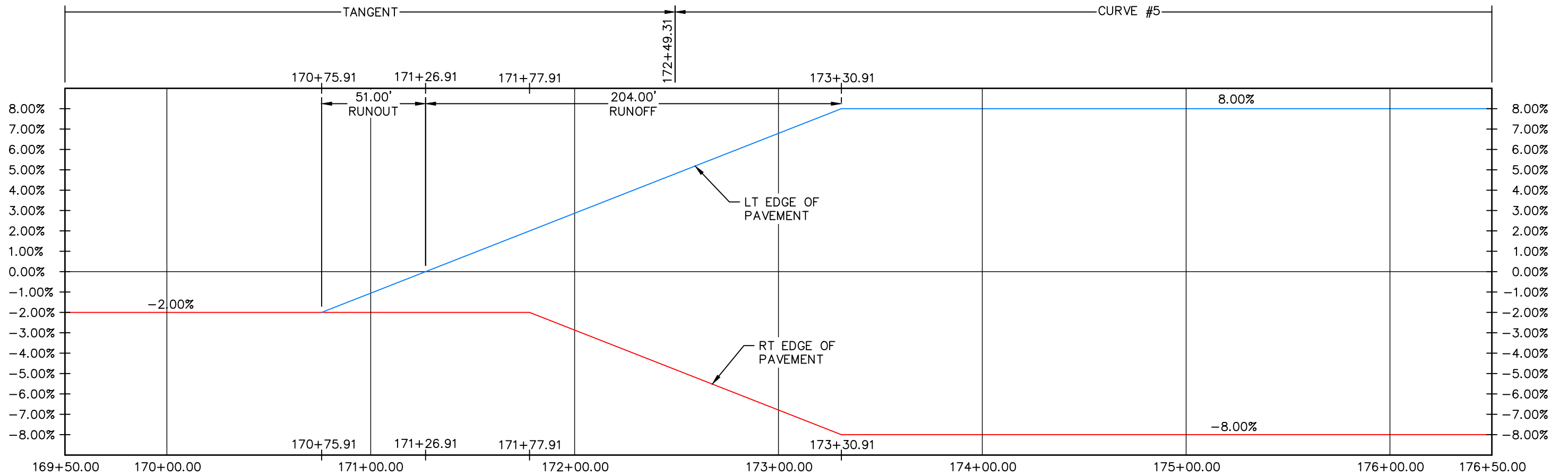
**SUPERELEVATION PROFILE
STATION 162+50 TO 169+50**

PROJECT NO. 335
LARIMER COUNTY ROAD 72
SHEET NO. 60

MATCHLINE STA 169+50
SEE SHEET 60



MATCHLINE STA 176+50
SEE SHEET 62



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COMPUTER INFORMATION		REVISIONS	
CREATION DATE:	07/13/20	(R-1)	
MODIFICATION DATE:	02/01/21	(R-2)	
FILE LOCATION:	INTEREST PROJECTS\2019 PROJECTS\1421-094-00 (LARIMER COUNTY ROAD 72)\DRAWINGS\ENGINEERING PLANS	(R-3)	
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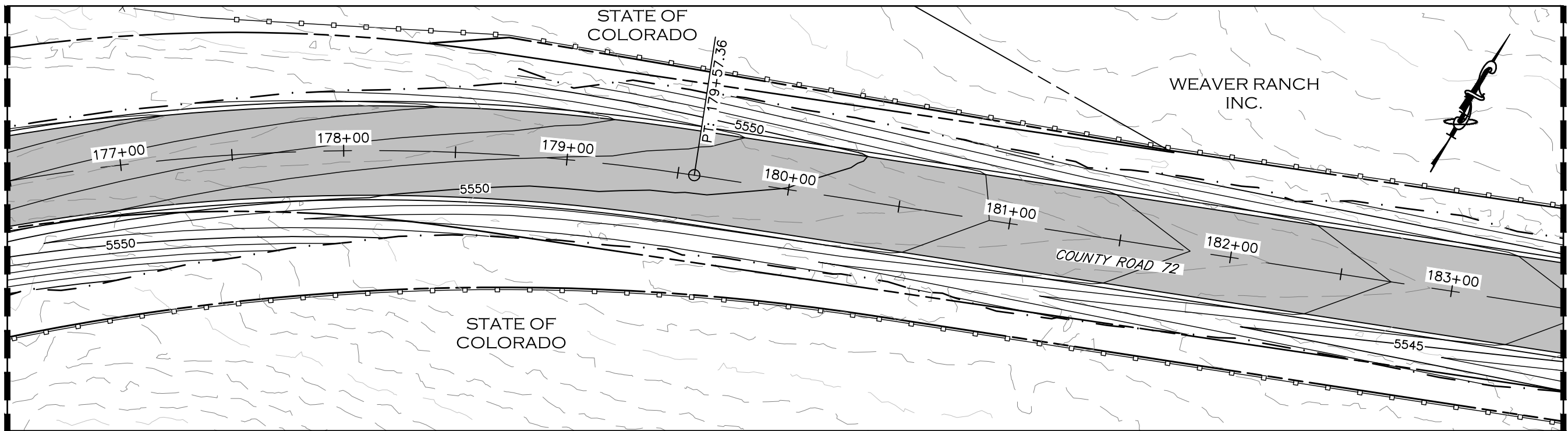
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VOID:

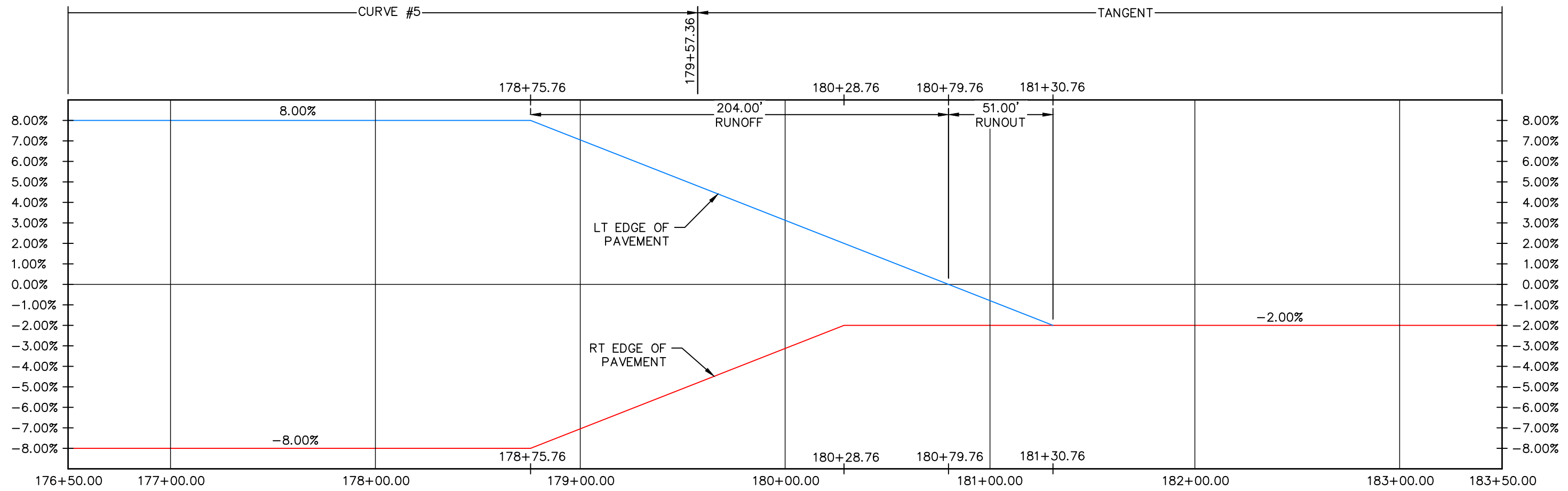
**SUPERELEVATION PROFILE
STATION 169+50 TO 176+50**

PROJECT NO. 335
LARIMER COUNTY ROAD 72
SHEET NO. 61

MATCH LINE STA 176+50
SEE SHEET 61



MATCH LINE STA 183+50
SEE SHEET 63



CALL UTILITY NOTIFICATION
CENTER OF COLORADO
811
CALL 2-BUSINESS DAYS IN ADVANCE
BEFORE YOU DIG, GRADE, OR EXCAVATE
FOR THE MARKING OF UNDERGROUND
MEMBER UTILITIES.

COMPUTER INFORMATION	
CREATION DATE:	07/13/20
MODIFICATION DATE:	02/01/21
FILE LOCATION:	INTEREST PROJECTS\2019 PROJECTS\1421-094-00 (LARIMER COUNTY ROAD 72)\DRAWINGS\ENGINEERING PLANS
FILE NAME:	1421-094-00 SUPERELEV.DWG

REVISIONS	
(R-1)	
(R-2)	
(R-3)	
(R-4)	
(R-5)	



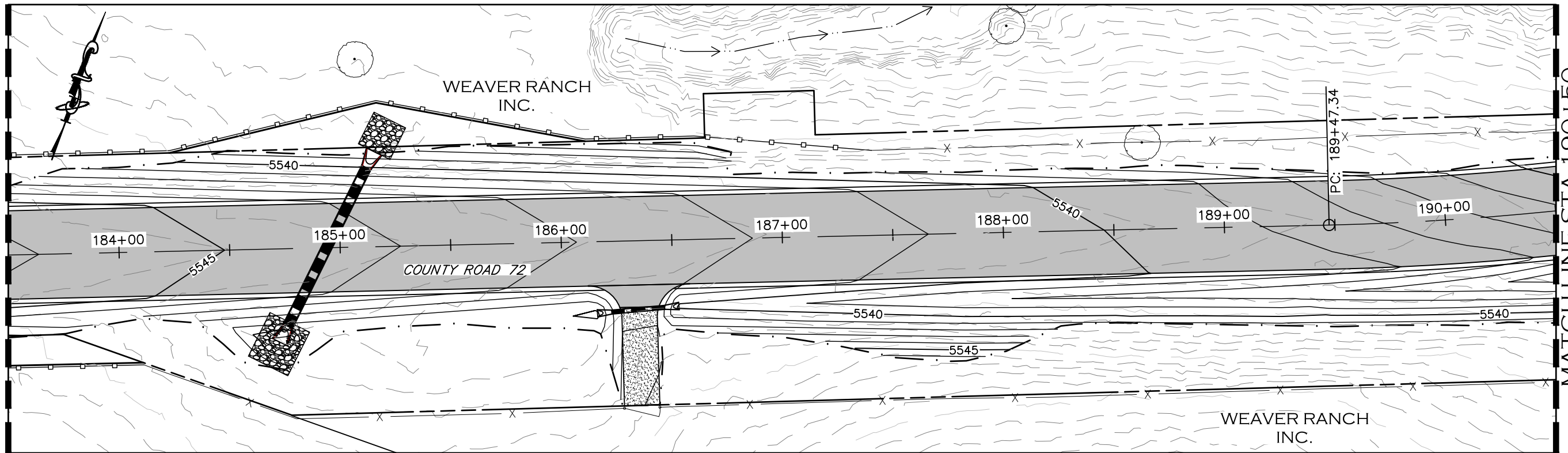
ENGINEERING DEPARTMENT
200 WEST OAK, SUITE 3000
POST OFFICE BOX 1190
FORT COLLINS, COLORADO 80522-1190
(970)498-5700
(970)498-7986 FAX

AS CONSTRUCTED
NO REVISIONS:
REVISED:
VOID:

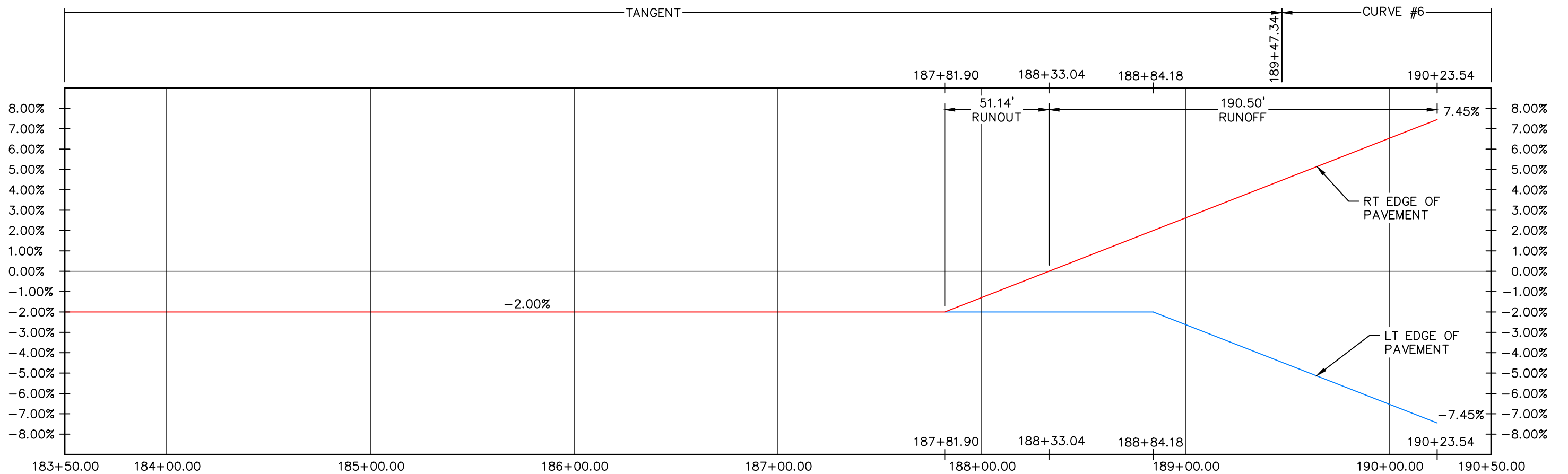
SUPERELEVATION PROFILE
STATION 176+50 TO 183+50

PROJECT NO. 335
LARIMER COUNTY ROAD 72
SHEET NO. 62

MATCHLINE STA 183+50
SEE SHEET 62



MATCHLINE STA 190+50
SEE SHEET 64



CALL UTILITY NOTIFICATION
CENTER OF COLORADO
811
CALL 2-BUSINESS DAYS IN ADVANCE
BEFORE YOU DIG, GRADE, OR EXCAVATE
FOR THE MARKING OF UNDERGROUND
MEMBER UTILITIES.

COMPUTER INFORMATION	
CREATION DATE:	07/13/20
MODIFICATION DATE:	02/01/21
FILE LOCATION:	INTEREST PROJECTS\2019 PROJECTS\1421-094-00 (LARIMER COUNTY ROAD 72)\DRAWINGS\ENGINEERING PLANS
FILE NAME:	1421-094-00 SUPERELEV.DWG

REVISIONS	
(R-1)	
(R-2)	
(R-3)	
(R-4)	
(R-5)	



ENGINEERING DEPARTMENT
200 WEST OAK, SUITE 3000
POST OFFICE BOX 1190
FORT COLLINS, COLORADO 80522-1190
(970)498-5700
(970)498-7986 FAX

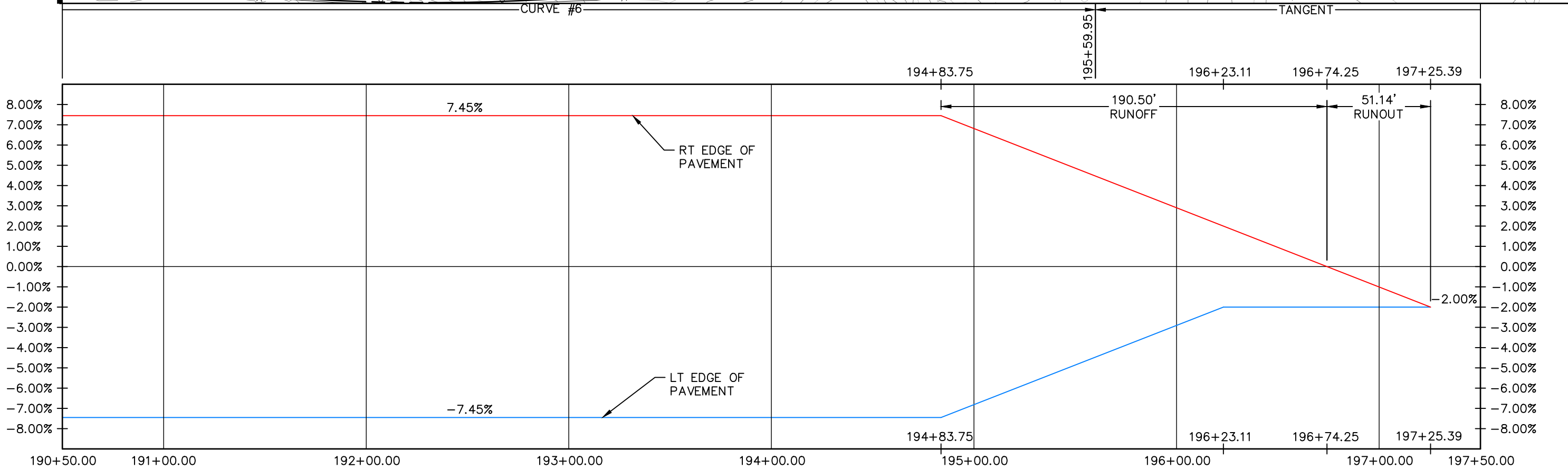
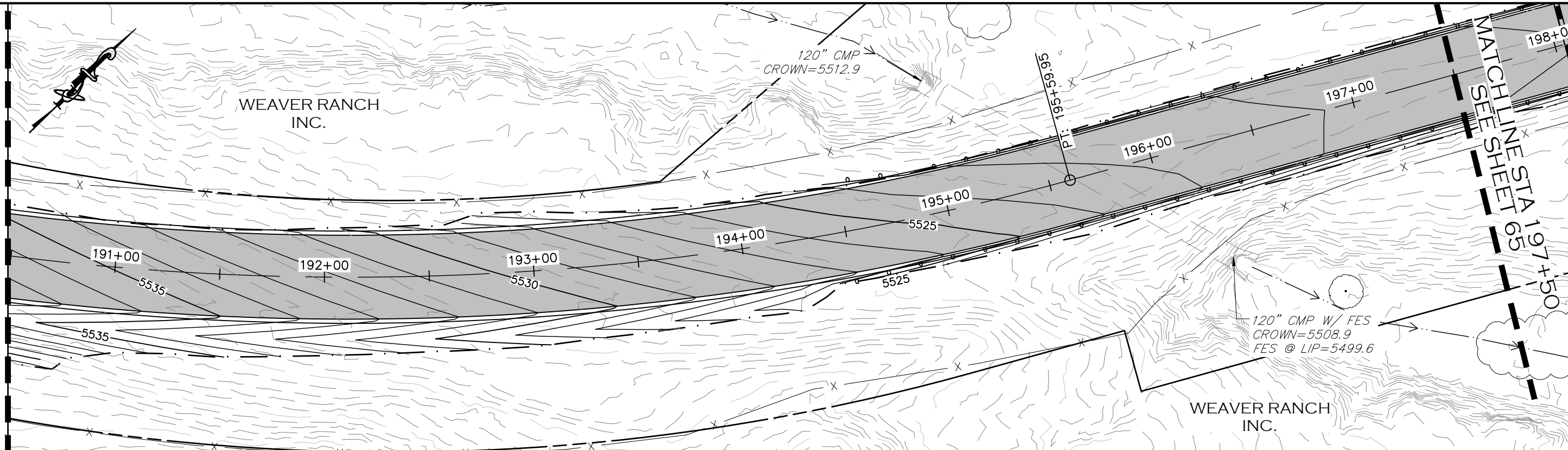
AS CONSTRUCTED
NO REVISIONS:
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**SUPERELEVATION PROFILE
STATION 183+50 TO 190+50**

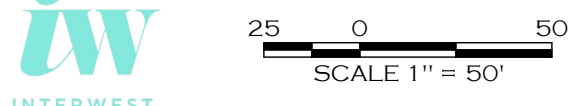
PROJECT NO. 335
LARIMER COUNTY ROAD 72
SHEET NO. 63

MATCHLINE STA 190+50
SEE SHEET 63

MATCHLINE STA 197+50
SEE SHEET 65



190+50.00 191+00.00 192+00.00 193+00.00 194+00.00 195+00.00 196+00.00 197+00.00 197+50.00



COMPUTER INFORMATION

CREATION DATE:	07/13/20
MODIFICATION DATE:	02/01/21
FILE LOCATION:	INTEREST PROJECTS\2019 PROJECTS\1421-094-00 (LARIMER COUNTY ROAD 72)\DRAWINGS\ENGINEERING PLANS
FILE NAME:	1421-094-00 SUPERELEV.DWG

REVISIONS

(R-1)	
(R-2)	
(R-3)	
(R-4)	
(R-5)	

LARIMER COUNTY ENGINEERING DEPARTMENT
 200 WEST OAK, SUITE 3000
 POST OFFICE BOX 1190
 FORT COLLINS, COLORADO 80522-1190
 (970)498-5700
 (970)498-7986 FAX

AS CONSTRUCTED

NO REVISIONS:
REVISED:
VOID:

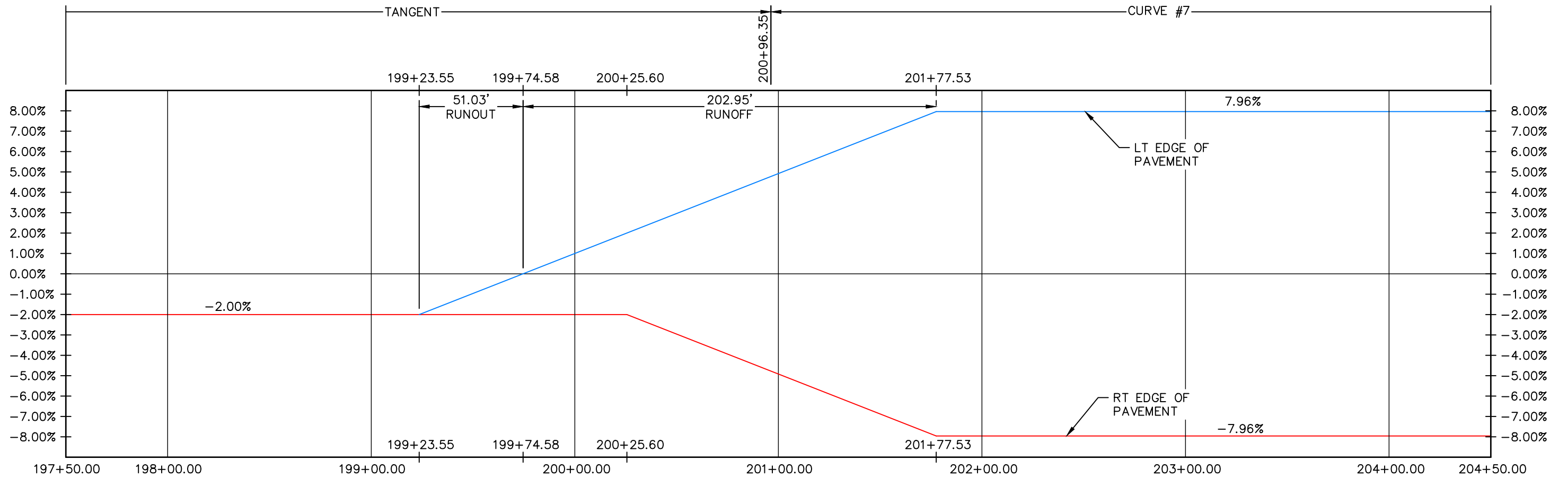
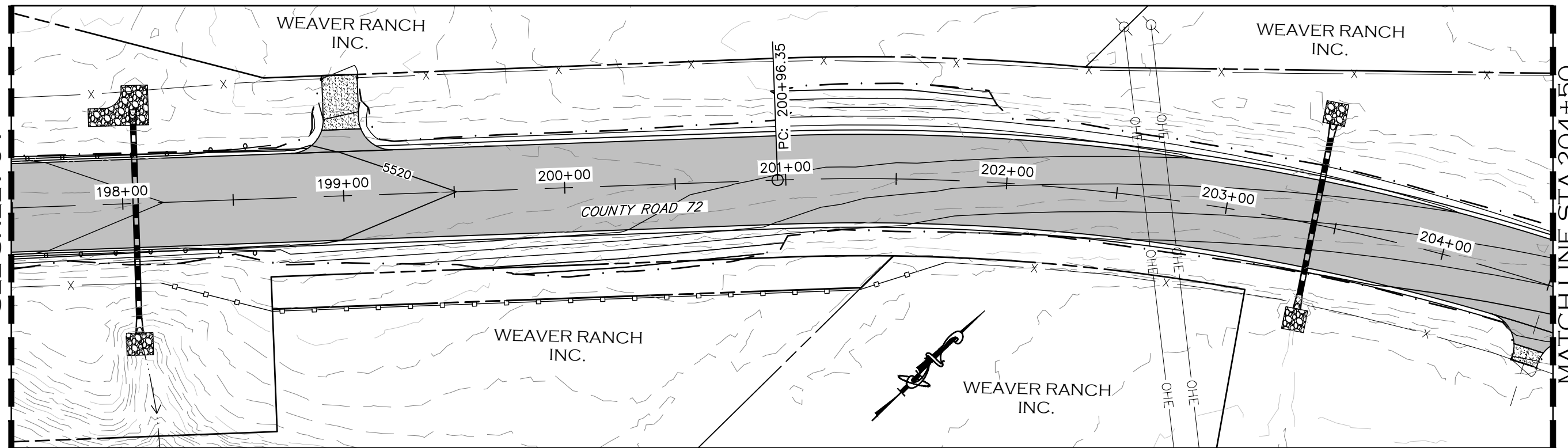
**SUPERELEVATION PROFILE
STATION 190+50 TO 197+50**

PROJECT NO. 335
 LARIMER COUNTY ROAD 72
SHEET NO. 64

CALL UTILITY NOTIFICATION
 CENTER OF COLORADO
 811
 CALL 2-BUSINESS DAYS IN ADVANCE
 BEFORE YOU DIG, GRADE, OR EXCAVATE
 FOR THE MARKING OF UNDERGROUND
 MEMBER UTILITIES.

MATCHLINE STA 197+50
SEE SHEET 64

MATCHLINE STA 204+50
SEE SHEET 66



CALL UTILITY NOTIFICATION
CENTER OF COLORADO
811
CALL 2-BUSINESS DAYS IN ADVANCE
BEFORE YOU DIG, GRADE, OR EXCAVATE
FOR THE MARKING OF UNDERGROUND
MEMBER UTILITIES.

COMPUTER INFORMATION	
CREATION DATE:	07/13/20
MODIFICATION DATE:	02/01/21
FILE LOCATION:	INTEREST PROJECTS\2019 PROJECTS\1421-094-00 (LARIMER COUNTY ROAD 72)\DRAWINGS\ENGINEERING PLANS
FILE NAME:	1421-094-00 SUPERELEV.DWG

REVISIONS	
(R-1)	
(R-2)	
(R-3)	
(R-4)	
(R-5)	

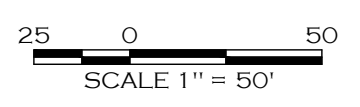
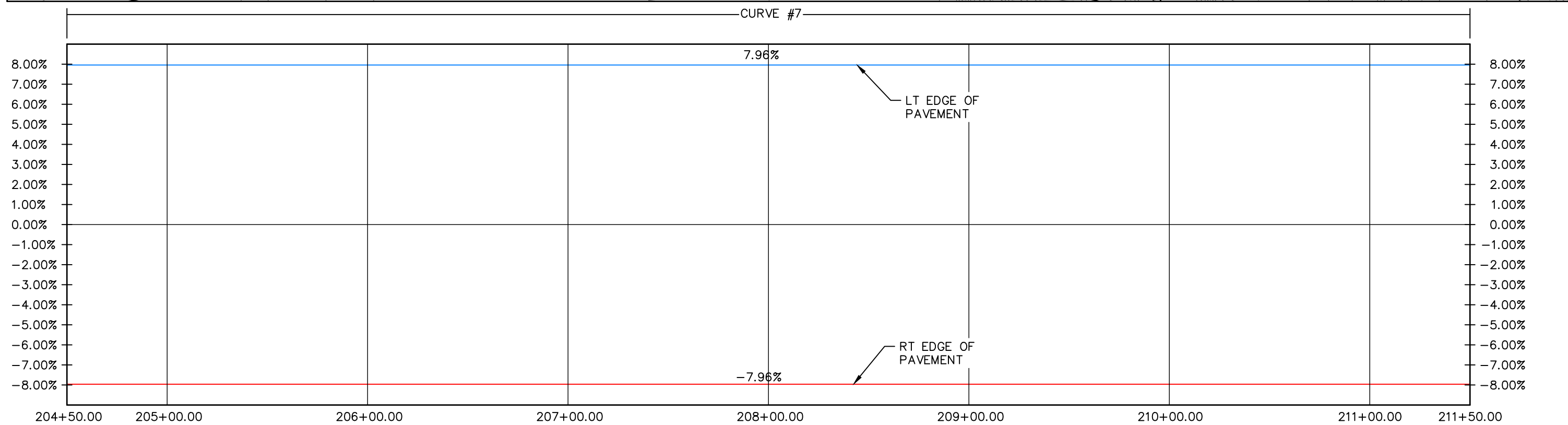
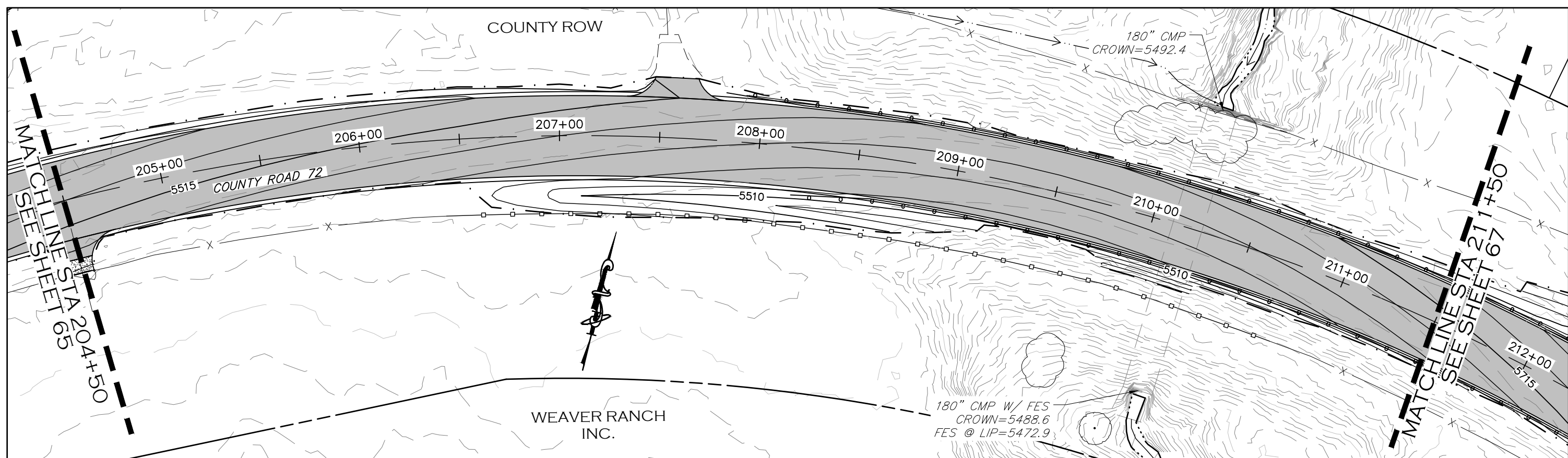


ENGINEERING DEPARTMENT
200 WEST OAK, SUITE 3000
POST OFFICE BOX 1190
FORT COLLINS, COLORADO 80522-1190
(970)498-5700
(970)498-7986 FAX

AS CONSTRUCTED
NO REVISIONS:
REVISED:
VOID:

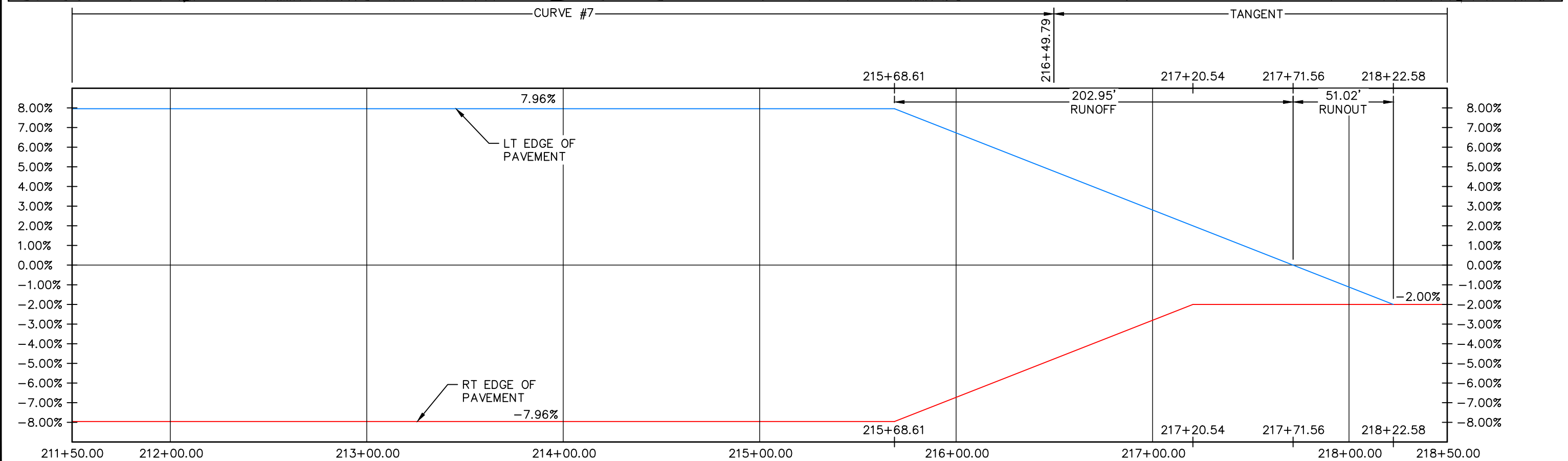
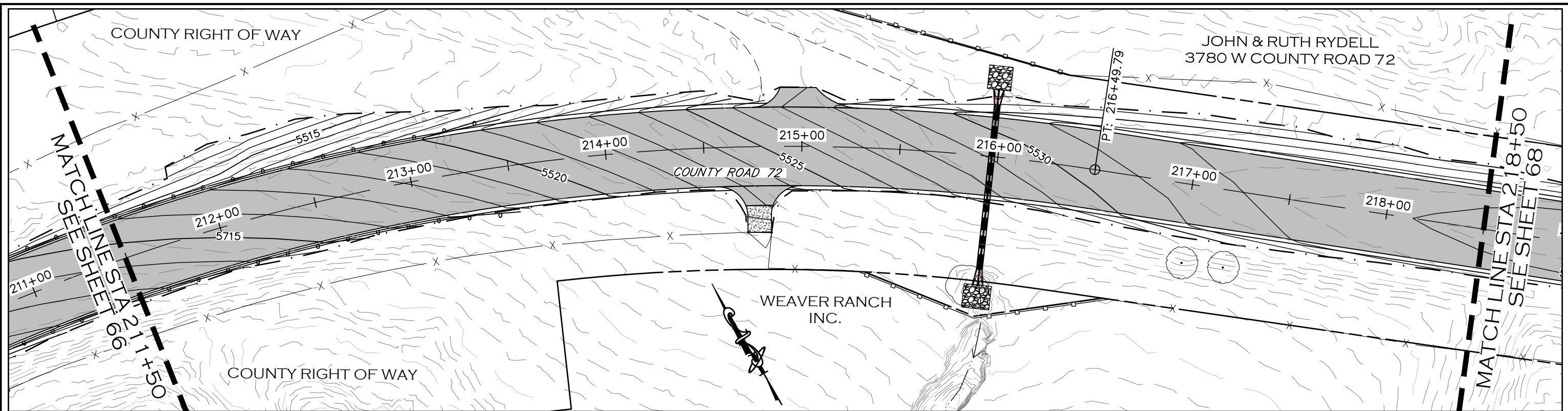
**SUPERELEVATION PROFILE
STATION 197+50 TO 204+50**

PROJECT NO. 335
LARIMER COUNTY ROAD 72
SHEET NO. 65



CALL UTILITY NOTIFICATION
CENTER OF COLORADO
811
CALL 2-BUSINESS DAYS IN ADVANCE
BEFORE YOU DIG, GRADE, OR EXCAVATE
FOR THE MARKING OF UNDERGROUND
MEMBER UTILITIES.

COMPUTER INFORMATION		REVISIONS		<p>LARIMER COUNTY ENGINEERING DEPARTMENT 200 WEST OAK, SUITE 3000 POST OFFICE BOX 1190 FORT COLLINS, COLORADO 80522-1190 (970)498-5700 (970)498-7986 FAX</p>	AS CONSTRUCTED	SUPERELEVATION PROFILE STATION 204+50 TO 211+50	PROJECT NO. 335
CREATION DATE:	07/13/20	(R-1)			NO REVISIONS:		LARIMER COUNTY ROAD 72
MODIFICATION DATE:	02/01/21	(R-2)			REVISED:		
FILE LOCATION:	INTEREST PROJECTS\2019 PROJECTS\1421-094-00 (LARIMER COUNTY ROAD 72)\DRAWINGS\ENGINEERING PLANS	(R-3)			VOID:		
FILE NAME:	1421-094-00 SUPERELEV.DWG	(R-4)					
		(R-5)				SHEET NO. 66	



CALL UTILITY NOTIFICATION
CENTER OF COLORADO
811
CALL 2-BUSINESS DAYS IN ADVANCE
BEFORE YOU DIG, GRADE, OR EXCAVATE
FOR THE MARKING OF UNDERGROUND
MEMBER UTILITIES.

COMPUTER INFORMATION	
CREATION DATE:	07/13/20
MODIFICATION DATE:	02/01/21
FILE LOCATION:	INTEREST PROJECTS\2019 PROJECTS\1421-094-00 (LARIMER COUNTY ROAD 72)\DRAWINGS\ENGINEERING PLANS
FILE NAME:	1421-094-00 SUPERELEV.DWG

REVISIONS	
(R-1)	
(R-2)	
(R-3)	
(R-4)	
(R-5)	



ENGINEERING DEPARTMENT
200 WEST OAK, SUITE 3000
POST OFFICE BOX 1190
FORT COLLINS, COLORADO 80522-1190
(970)498-5700
(970)498-7986 FAX

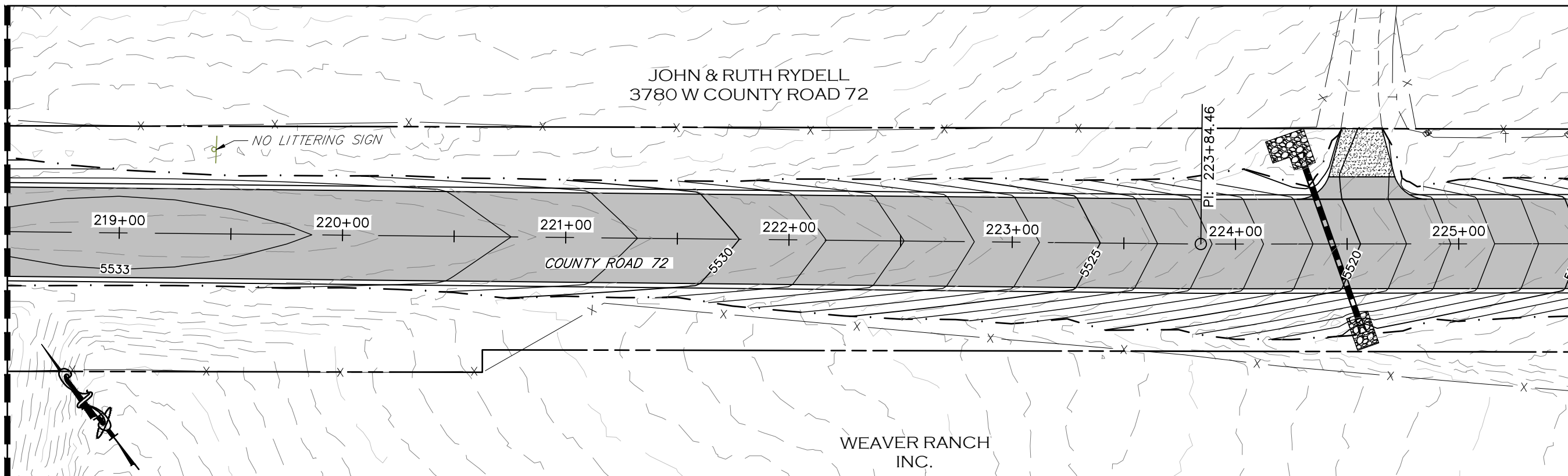
AS CONSTRUCTED
NO REVISIONS:
REVISED:
VOID:

SUPERELEVATION PROFILE
STATION 211+50 TO 218+50

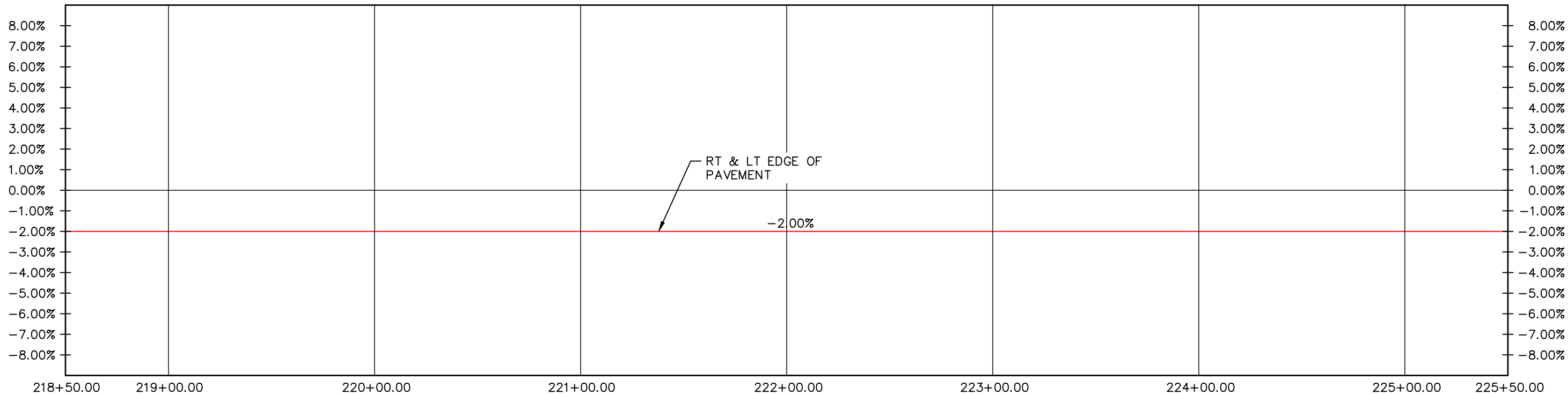
PROJECT NO. 335
LARIMER COUNTY ROAD 72
SHEET NO. 67

MATCHLINE STA 218+50
SEE SHEET 67

MATCHLINE STA 225+50
SEE SHEET 69



TANGENT



CALL UTILITY NOTIFICATION
CENTER OF COLORADO
811
CALL 2-BUSINESS DAYS IN ADVANCE
BEFORE YOU DIG, GRADE, OR EXCAVATE
FOR THE MARKING OF UNDERGROUND
MEMBER UTILITIES.

COMPUTER INFORMATION	
CREATION DATE:	07/13/20
MODIFICATION DATE:	02/01/21
FILE LOCATION:	INTEREST PROJECTS\2019 PROJECTS\1421-094-00 (LARIMER COUNTY ROAD 72)\DRAWINGS\ENGINEERING PLANS
FILE NAME:	1421-094-00 SUPERELEV.DWG

REVISIONS	
(R-1)	
(R-2)	
(R-3)	
(R-4)	
(R-5)	

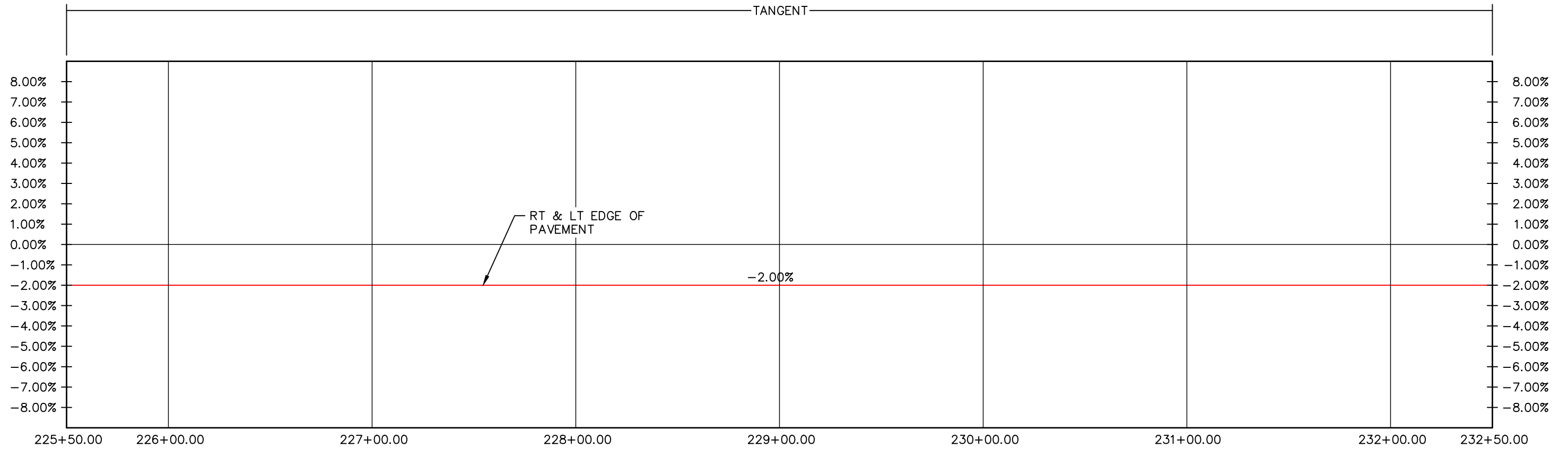
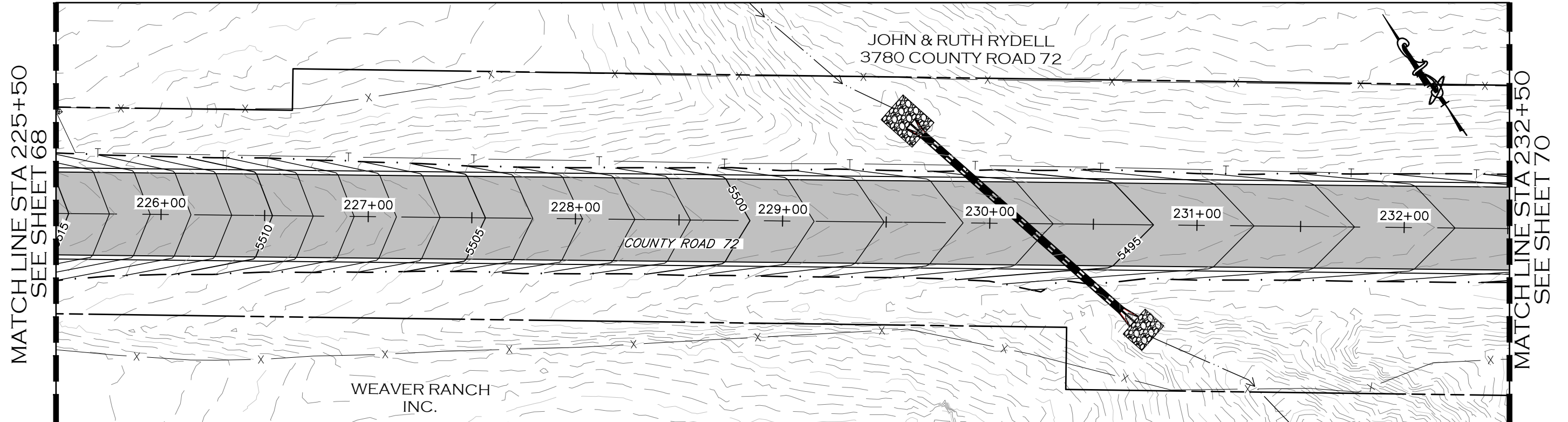


ENGINEERING DEPARTMENT
200 WEST OAK, SUITE 3000
POST OFFICE BOX 1190
FORT COLLINS, COLORADO 80522-1190
(970)498-5700
(970)498-7986 FAX

AS CONSTRUCTED
NO REVISIONS:
REVISED:
VOID:

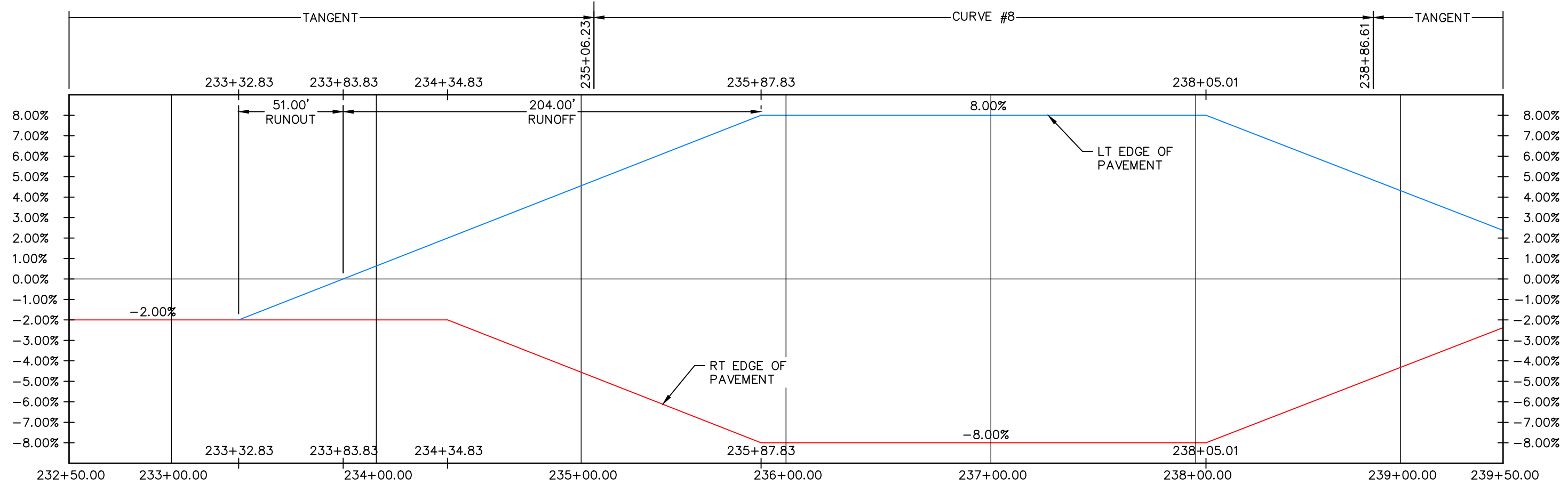
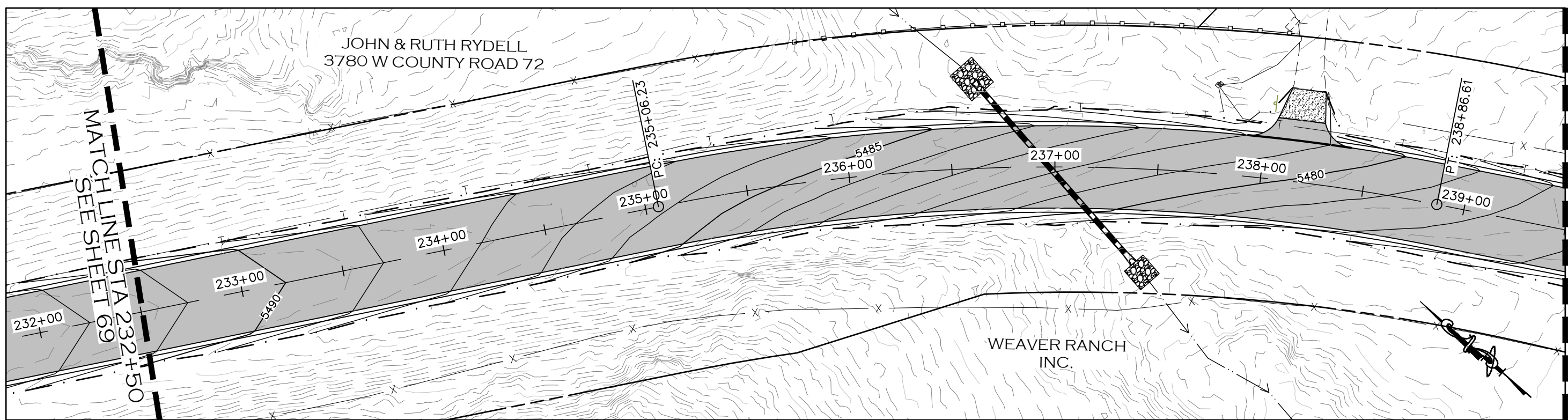
**SUPERELEVATION PROFILE
STATION 218+50 TO 225+50**

PROJECT NO. 335
LARIMER COUNTY ROAD 72
SHEET NO. 68



CALL UTILITY NOTIFICATION
CENTER OF COLORADO
811
CALL 2-BUSINESS DAYS IN ADVANCE
BEFORE YOU DIG, GRADE, OR EXCAVATE
FOR THE MARKING OF UNDERGROUND
MEMBER UTILITIES.

COMPUTER INFORMATION		REVISIONS		<p>LARIMER COUNTY ENGINEERING DEPARTMENT 200 WEST OAK, SUITE 3000 POST OFFICE BOX 1190 FORT COLLINS, COLORADO 80522-1190 (970)498-5700 (970)498-7986 FAX</p>	AS CONSTRUCTED	SUPERELEVATION PROFILE STATION 225+50 TO 232+50	PROJECT NO. 335
CREATION DATE:	07/13/20	(R-1)			NO REVISIONS:		LARIMER COUNTY ROAD 72
MODIFICATION DATE:	02/01/21	(R-2)			REVISED:		
FILE LOCATION:	INTEREST PROJECTS\2019 PROJECTS\1421-094-00 (LARIMER COUNTY ROAD 72)\DRAWINGS\ENGINEERING PLANS	(R-3)			VOID:		
FILE NAME:	1421-094-00 SUPERELEV.DWG	(R-4)					
		(R-5)				SHEET NO. 69	



CALL UTILITY NOTIFICATION
CENTER OF COLORADO
811
CALL 2-BUSINESS DAYS IN ADVANCE
BEFORE YOU DIG, GRADE, OR EXCAVATE
FOR THE MARKING OF UNDERGROUND
MEMBER UTILITIES.

COMPUTER INFORMATION	
CREATION DATE:	07/13/20
MODIFICATION DATE:	02/01/21
FILE LOCATION:	INTEREST PROJECTS\2019 PROJECTS\1421-094-00 (LARIMER COUNTY ROAD 72)\DRAWINGS\ENGINEERING PLANS
FILE NAME:	1421-094-00 SUPERELEV.DWG

REVISIONS	
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(R-2)	
(R-3)	
(R-4)	
(R-5)	

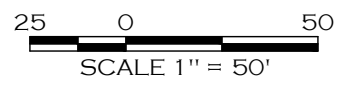
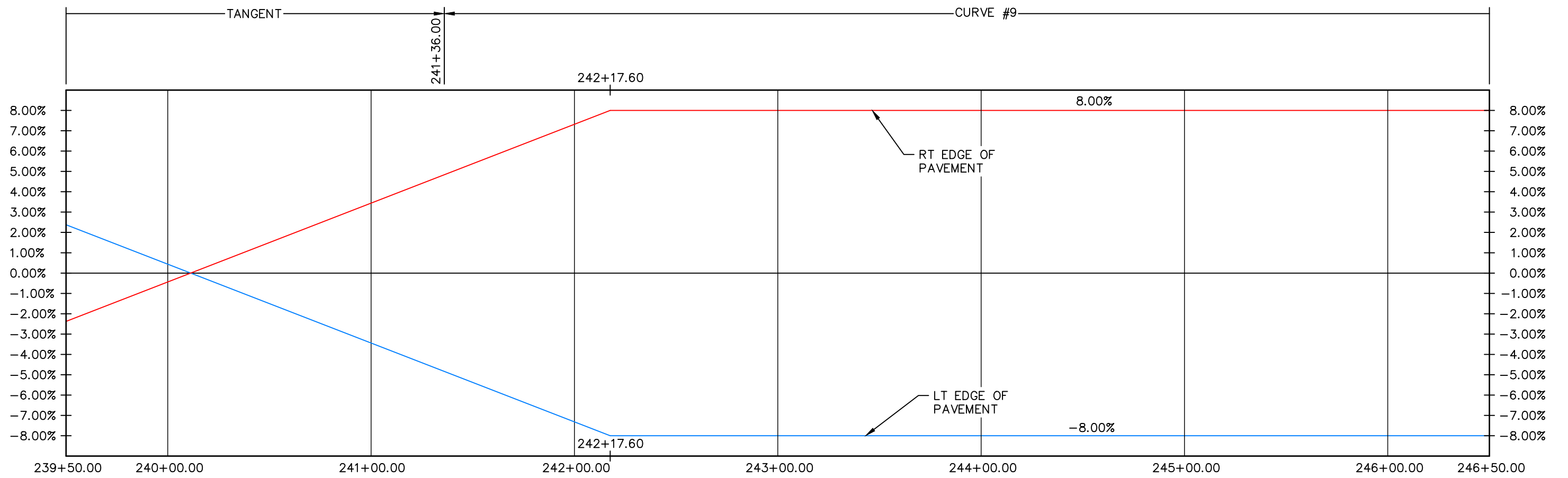
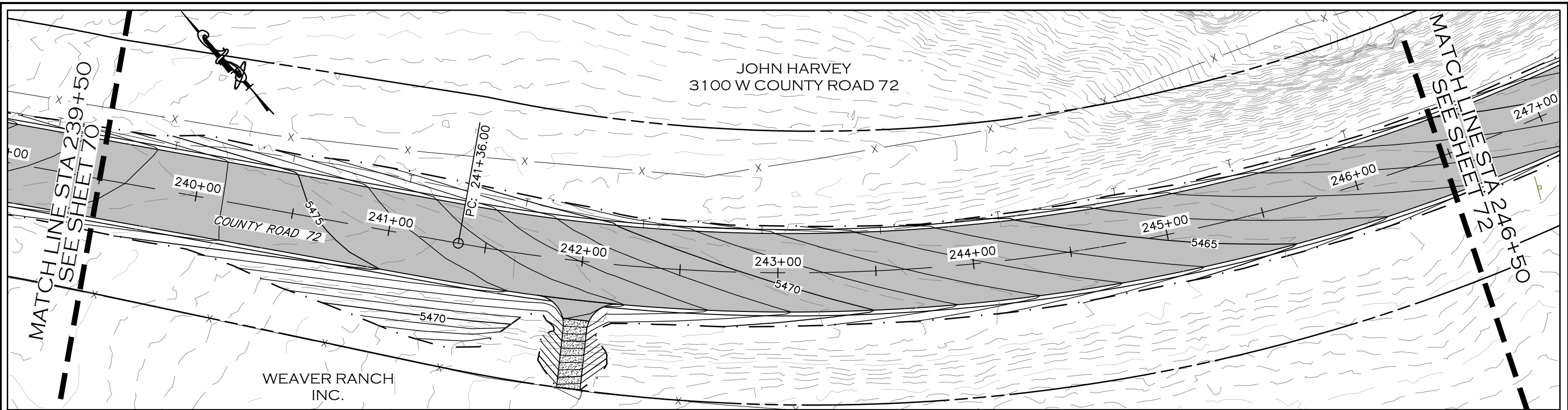


LARIMER COUNTY ENGINEERING DEPARTMENT
200 WEST OAK, SUITE 3000
POST OFFICE BOX 1190
FORT COLLINS, COLORADO 80522-1190
(970)498-5700
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AS CONSTRUCTED
NO REVISIONS:
REVISED:
VOID:

**SUPERELEVATION PROFILE
STATION 232+50 TO 239+50**

PROJECT NO. 335
LARIMER COUNTY ROAD 72
SHEET NO. 70



CALL UTILITY NOTIFICATION
CENTER OF COLORADO
811
CALL 2-BUSINESS DAYS IN ADVANCE
BEFORE YOU DIG, GRADE, OR EXCAVATE
FOR THE MARKING OF UNDERGROUND
MEMBER UTILITIES.

COMPUTER INFORMATION		REVISIONS	
CREATION DATE:	07/13/20	(R-1)	
MODIFICATION DATE:	02/01/21	(R-2)	
FILE LOCATION:	INTEREST PROJECTS\2019 PROJECTS\1421-094-00 (LARIMER COUNTY ROAD 72)\DRAWINGS\ENGINEERING PLANS	(R-3)	
FILE NAME:	1421-094-00 SUPERELEV.DWG	(R-4)	
		(R-5)	

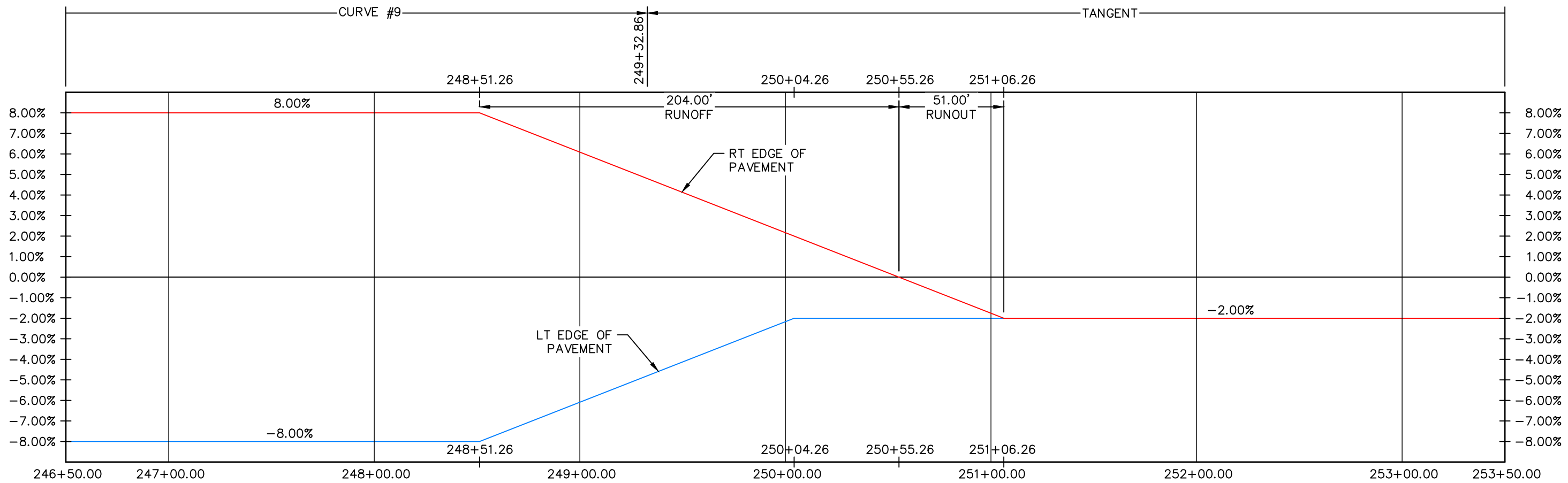
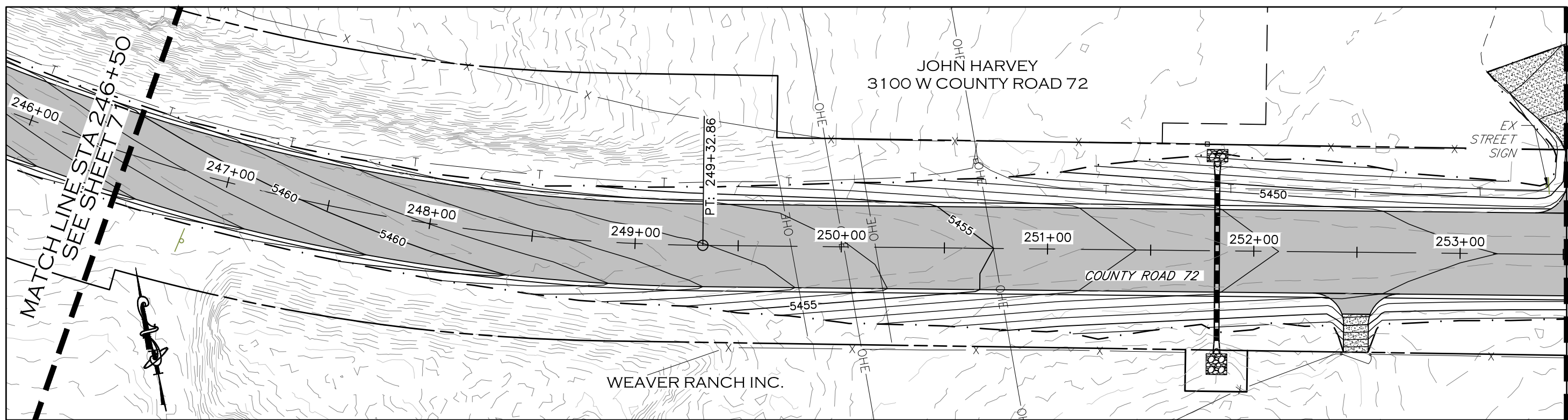


ENGINEERING DEPARTMENT
200 WEST OAK, SUITE 3000
POST OFFICE BOX 1190
FORT COLLINS, COLORADO 80522-1190
(970)498-5700
(970)498-7986 FAX

AS CONSTRUCTED
NO REVISIONS:
REVISED:
VOID:

**SUPERELEVATION PROFILE
STATION 239+50 TO 246+50**

PROJECT NO. 335
LARIMER COUNTY ROAD 72
SHEET NO. 71



CALL UTILITY NOTIFICATION
CENTER OF COLORADO
811
CALL 2-BUSINESS DAYS IN ADVANCE
BEFORE YOU DIG, GRADE, OR EXCAVATE
FOR THE MARKING OF UNDERGROUND
MEMBER UTILITIES.

COMPUTER INFORMATION	
CREATION DATE:	07/13/20
MODIFICATION DATE:	02/01/21
FILE LOCATION:	INTEREST PROJECTS\2019 PROJECTS\1421-094-00 (LARIMER COUNTY ROAD 72)\DRAWINGS\ENGINEERING PLANS
FILE NAME:	1421-094-00 SUPERELEV.DWG

REVISIONS	
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(R-2)	
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(R-4)	
(R-5)	



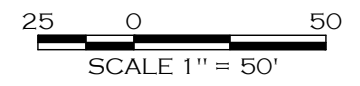
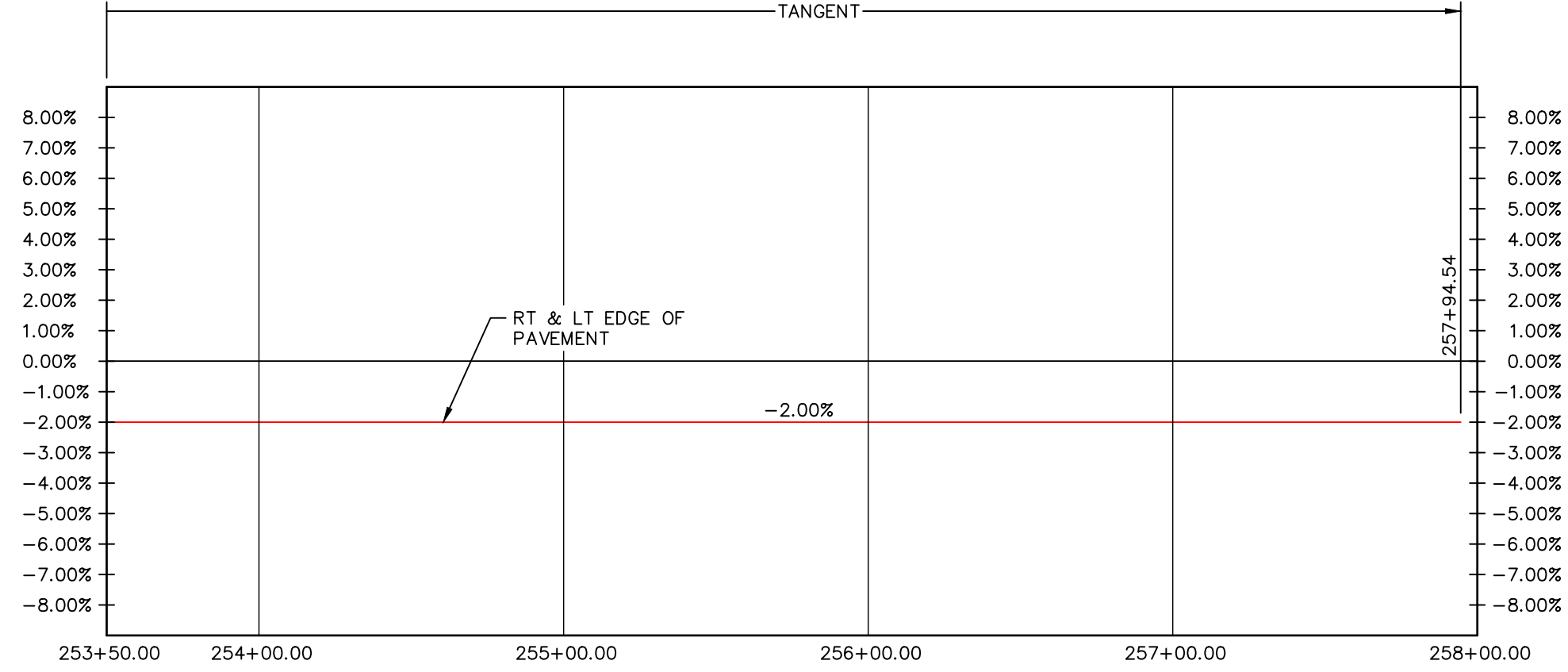
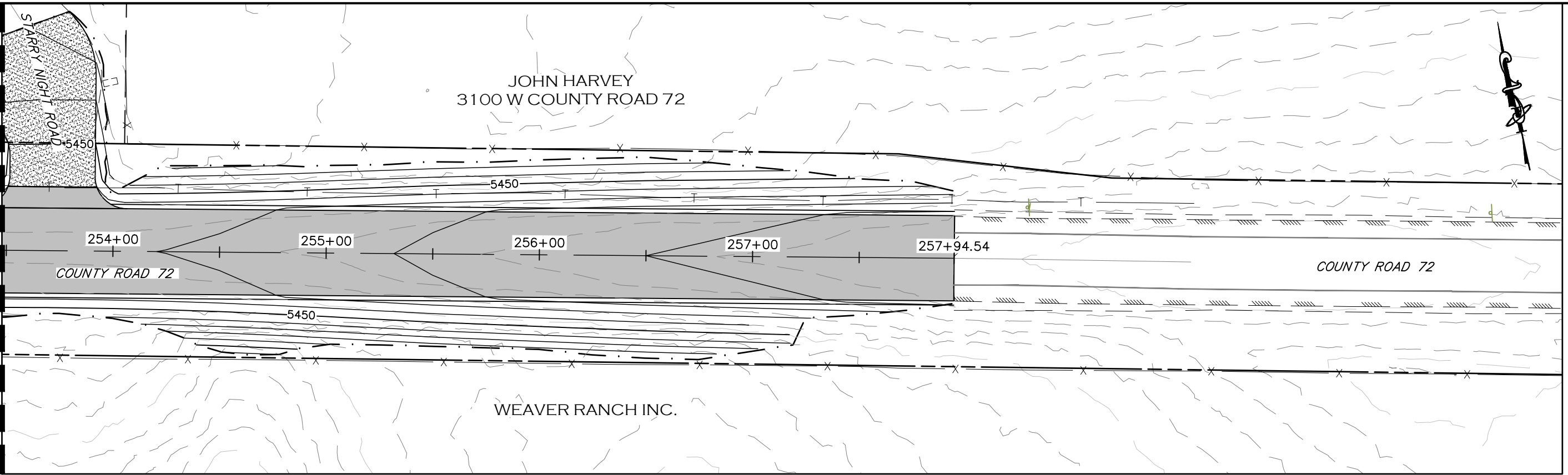
ENGINEERING DEPARTMENT
200 WEST OAK, SUITE 3000
POST OFFICE BOX 1190
FORT COLLINS, COLORADO 80522-1190
(970)498-5700
(970)498-7986 FAX

AS CONSTRUCTED
NO REVISIONS:
REVISED:
VOID:

SUPERELEVATION PROFILE
STATION 246+50 TO 253+50

PROJECT NO. 335
LARIMER COUNTY ROAD 72
SHEET NO. 72

MATCHLINE STA 253+50
SEE SHEET 72



CALL UTILITY NOTIFICATION
CENTER OF COLORADO
811
CALL 2-BUSINESS DAYS IN ADVANCE
BEFORE YOU DIG, GRADE, OR EXCAVATE
FOR THE MARKING OF UNDERGROUND
MEMBER UTILITIES.

COMPUTER INFORMATION	REVISIONS		AS CONSTRUCTED	SUPERELEVATION PROFILE STATION 253+50 TO 257+95	PROJECT NO. 335
CREATION DATE: 07/13/20	(R-1)	LARIMER COUNTY ENGINEERING DEPARTMENT 200 WEST OAK, SUITE 3000 POST OFFICE BOX 1190 FORT COLLINS, COLORADO 80522-1190 (970)498-5700 (970)498-7986 FAX	NO REVISIONS:	811	LARIMER COUNTY ROAD 72
MODIFICATION DATE: 02/01/21	(R-2)		REVISED:		
FILE LOCATION: I:\PROJECTS\2019 PROJECTS\1421-094-00 (LARIMER COUNTY ROAD 72)\DRAWINGS\ENGINEERING PLANS	(R-3)		VOID:		
FILE NAME: 1421-094-00 SUPERELEV.DWG	(R-4)				
	(R-5)				
				SHEET NO. 73	

EROSION CONTROL TABULATION:
 EL-1: 80 EA @ 8 LF = 640 LF
 EL-2: 22 EA @ 16 LF = 352 LF
 EL-3: 22 EA @ 8 LF = 176 LF
 EL-4: 3,582 LF
 TB: 15,400 LF (FOR INFORMATION ONLY, SEE NOTE 5)
 SRB: 15,033 SY

LEGEND

	PROPOSED MINOR CONTOUR
	PROPOSED MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	EXISTING MAJOR CONTOUR
	PROPOSED FENCE
	TEMPORARY CONSTRUCTION EASEMENT
	PROPOSED RIGHT-OF-WAY
	EXISTING RIGHT-OF-WAY
	EXISTING PROPERTY LINE

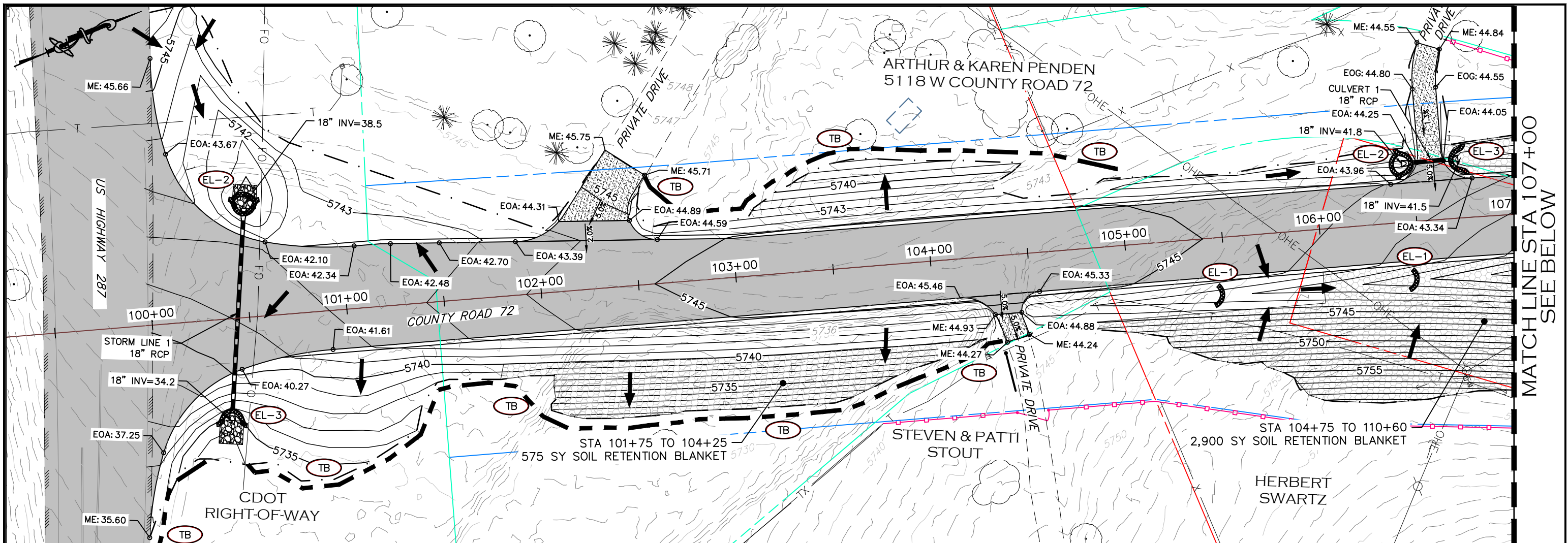
	EROSION LOG (12 INCH) DRAINAGE DITCH APPLICATIONS	
	EROSION LOG (12 INCH) CULVERT INLET PROTECTION	
	EROSION LOG (12 INCH) CULVERT OUTLET PROTECTION	
	EROSION LOG (12 INCH) TOE OF SLOPE PROTECTION	
	TEMPORARY BERM *SEE NOTE 5*	
	SOIL RETENTION BLANKET	

EROSION CONTROL NOTES:

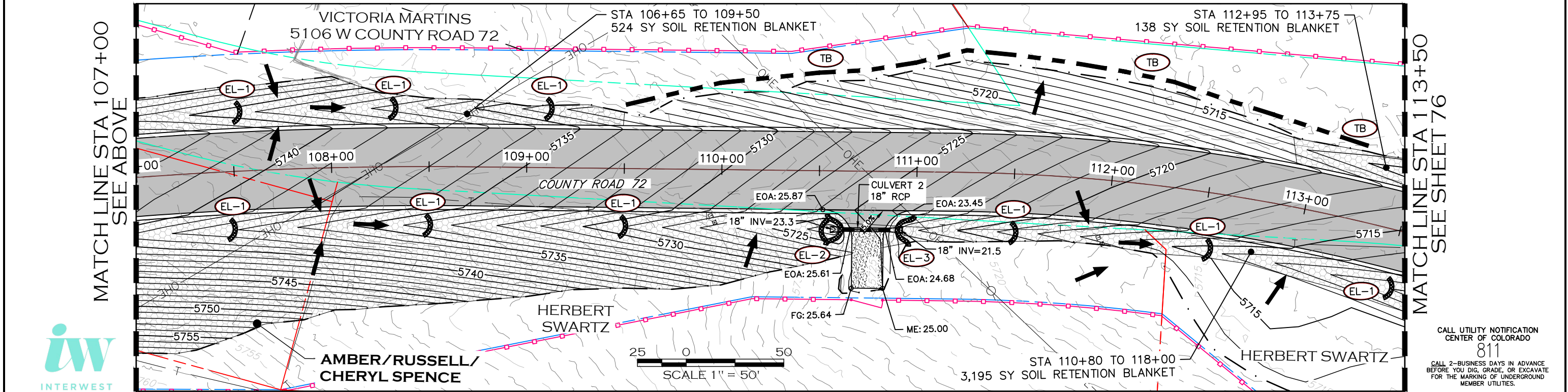
1. CONTRACTOR SHALL SPECIFY LOCATION OF VEHICLE TRACKING PAD. LOCATION TO BE ADJUSTED AS NECESSARY FOR CONSTRUCTION PHASING.
2. CONTRACTOR SHALL SPECIFY LOCATION OF CONCRETE WASHOUT (IF REQUIRED) FOR CONSTRUCTION OF CONCRETE BOX CULVERT.
3. SOIL RETENTION BLANKET SHALL BE WINTERS CHOICE BIODEGRADABLE JUTE NETTING OR APPROVED EQUAL.
4. SOIL RETENTION BLANKET TO BE PLACED ON ALL 3:1 SLOPES AND ALONG ROAD SIDE DITCHES THAT EXCEED 2.0% LONGITUDINAL SLOPE.
5. TEMPORARY BERM WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE WORK ASSOCIATED WITH UNCLASSIFIED EXCAVATION.



COMPUTER INFORMATION	REVISIONS		AS CONSTRUCTED	GRADING LEGEND	PROJECT NO. 335
CREATION DATE: 07/13/20		LARIMER COUNTY ENGINEERING DEPARTMENT 200 WEST OAK, SUITE 3000 POST OFFICE BOX 1190 FORT COLLINS, COLORADO 80522-1190 (970)498-5700 (970)498-7986 FAX	NO REVISIONS:	GRADING LEGEND	LARIMER COUNTY ROAD 72
MODIFICATION DATE: 02/01/21			REVISED:		
FILE LOCATION: INTEREST PROJECTS\2019 PROJECTS\1421-094-00 (LARIMER COUNTY ROAD 72)\DRAWINGS\ENGINEERING PLANS			VOID:		
FILE NAME: 1421-094-00 GRADING.DWG					
					SHEET NO. 74



MATCHLINE STA 107+00
SEE BELOW

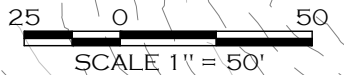


MATCHLINE STA 107+00
SEE ABOVE

MATCHLINE STA 113+50
SEE SHEET 76



AMBER/RUSSELL/
CHERYL SPENCE



CALL UTILITY NOTIFICATION
CENTER OF COLORADO
811
CALL 2-BUSINESS DAYS IN ADVANCE
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FOR THE MARKING OF UNDERGROUND
MEMBER UTILITIES.

COMPUTER INFORMATION	
CREATION DATE:	07/13/20
MODIFICATION DATE:	02/01/21
FILE LOCATION:	INTEREST PROJECTS\2019 PROJECTS\1421-094-00 LARIMER COUNTY ROAD 72\DRAWINGS\ENGINEERING PLANS
FILE NAME:	1421-094-00 GRADING.DWG

REVISIONS	
(R-1)	
(R-2)	
(R-3)	
(R-4)	
(R-5)	

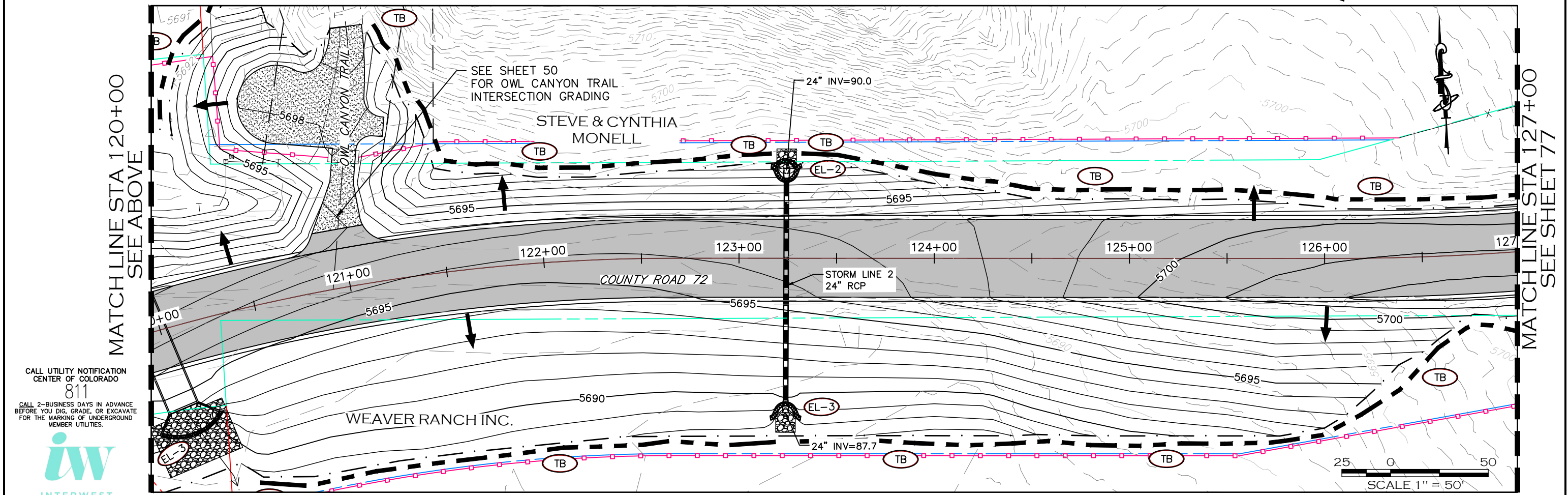
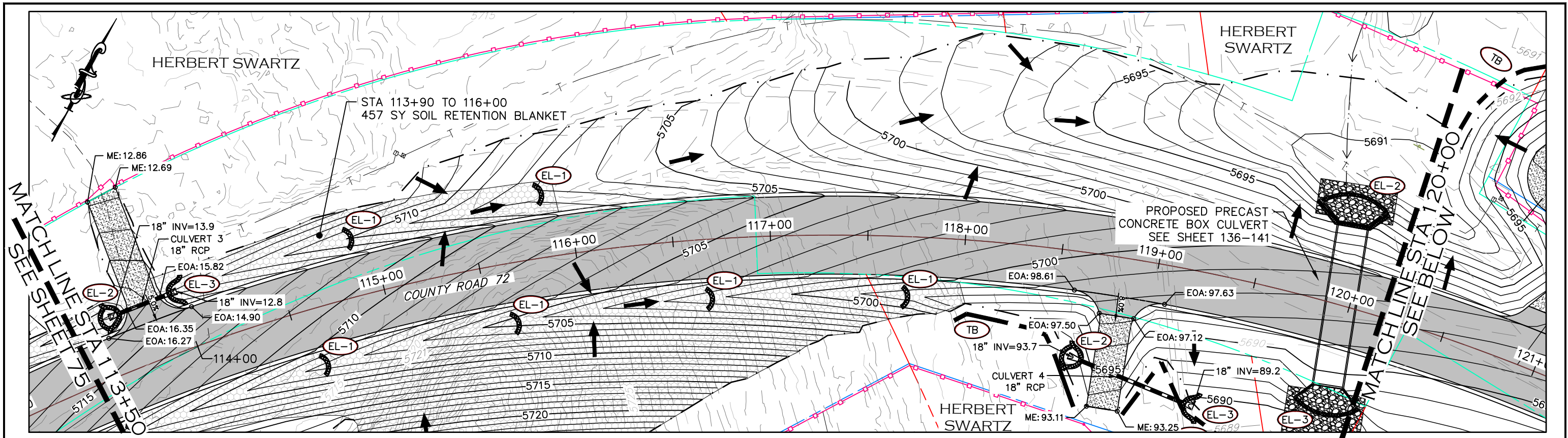


LARIMER COUNTY
ENGINEERING DEPARTMENT
200 WEST OAK, SUITE 3000
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PROJECT NO. 335
LARIMER COUNTY ROAD 72
SHEET NO. 75



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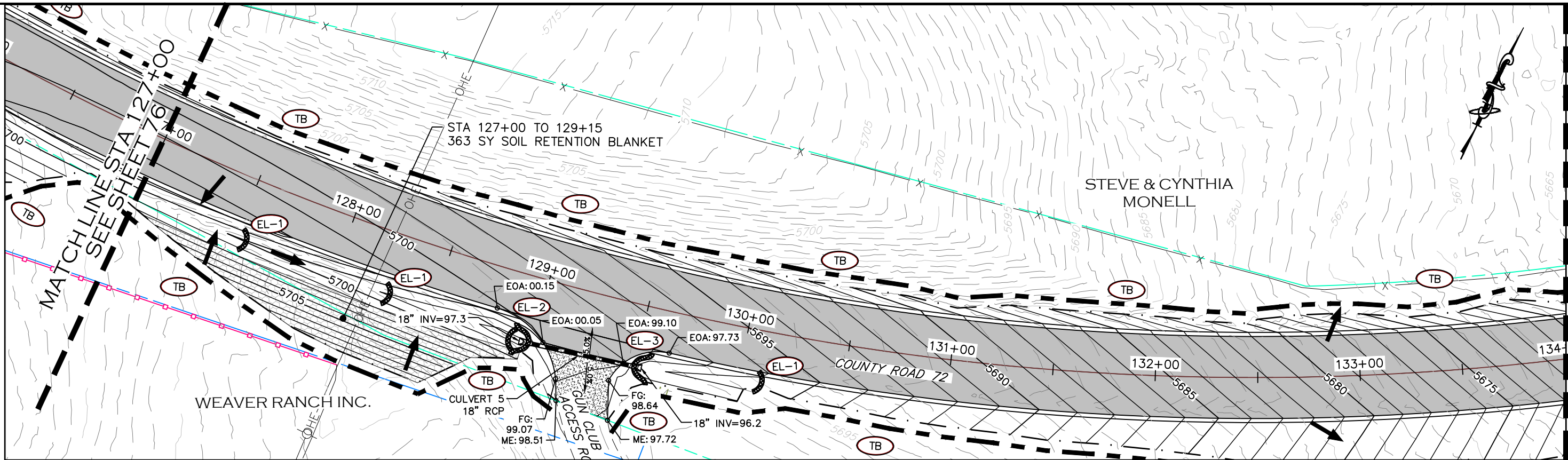


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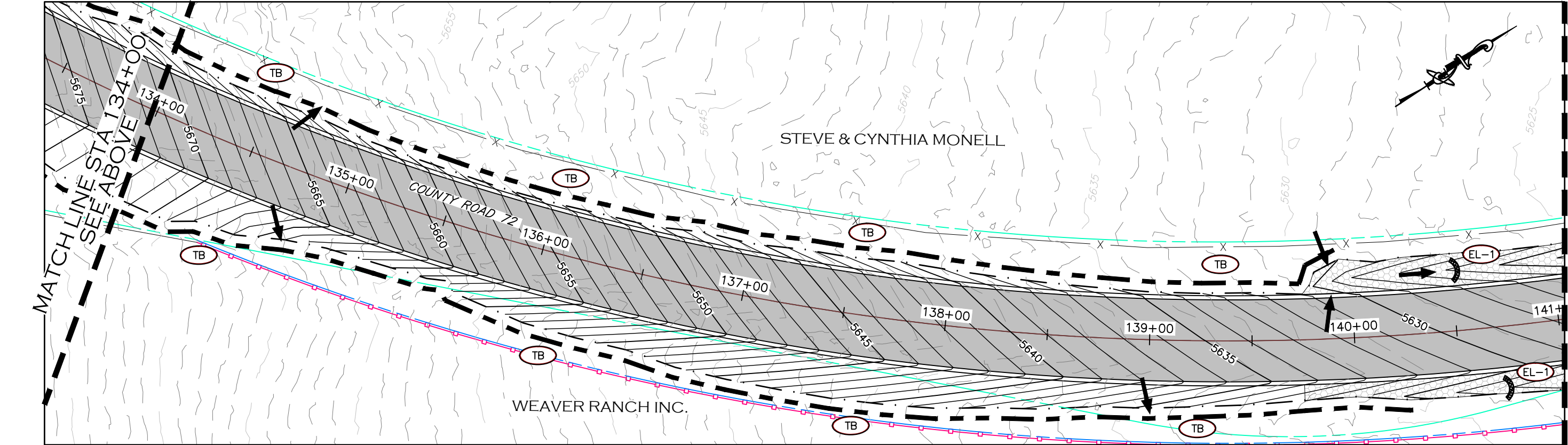
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SHEET NO. 76



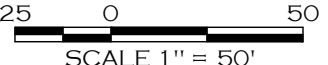
MATCHLINE STA 134+00
SEE SHEET BELOW



MATCHLINE STA 141+00
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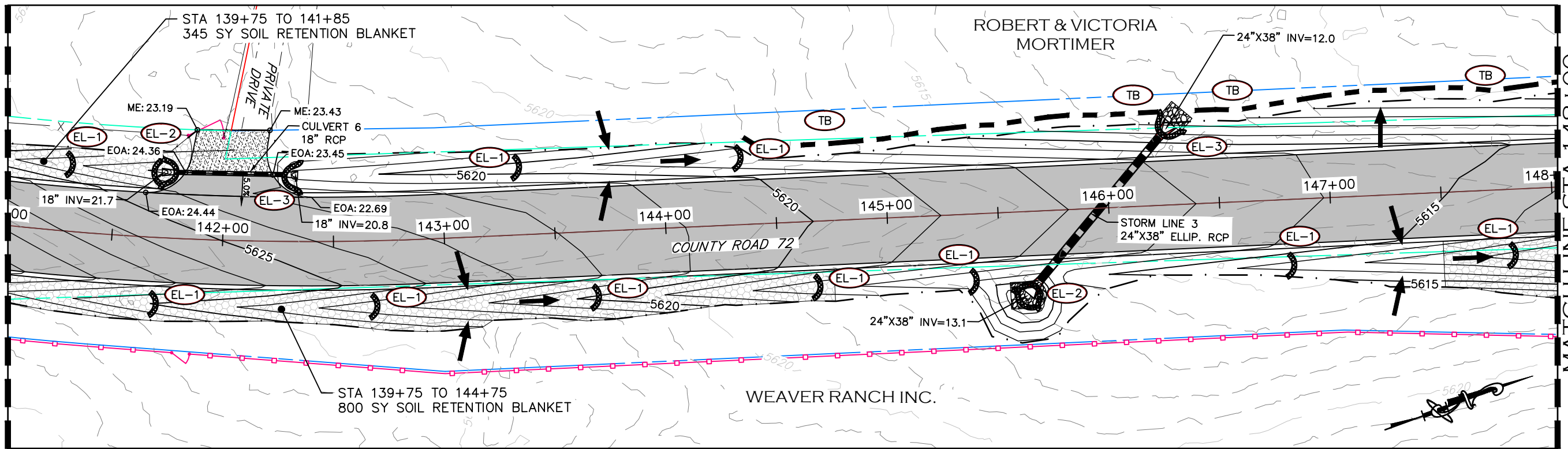
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STATION 127+00 TO 141+00

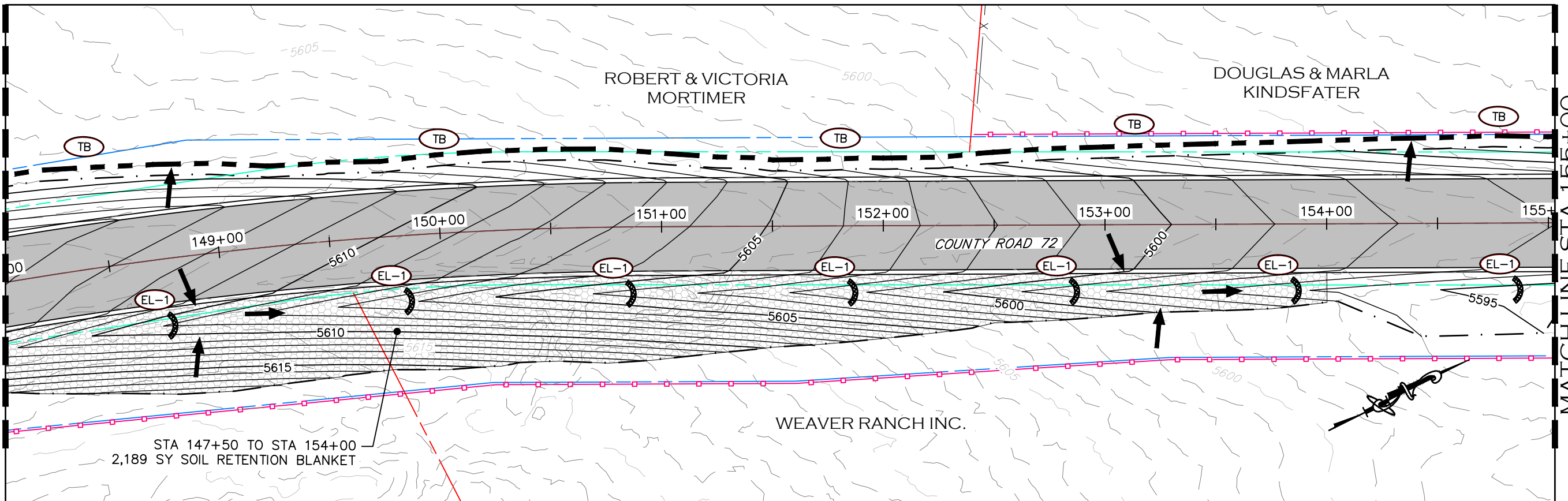
PROJECT NO. 335
LARIMER COUNTY ROAD 72
SHEET NO. 77

MATCHLINE STA 141+00
SEE SHEET 77



MATCHLINE STA 148+00
SEE BELOW

MATCHLINE STA 148+00
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MATCHLINE STA 155+00
SEE SHEET 79



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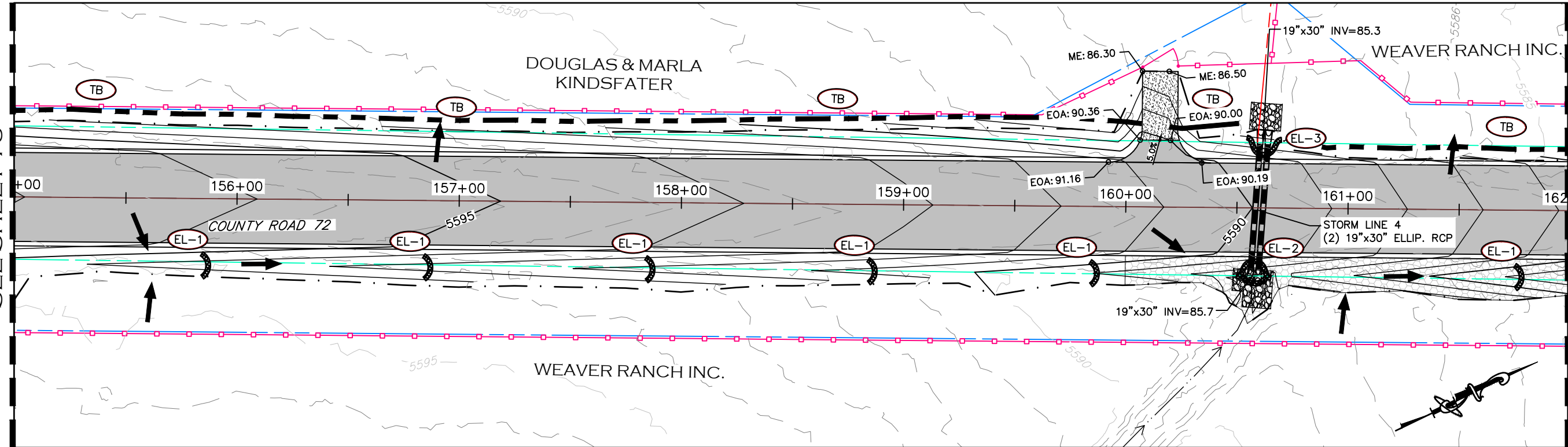
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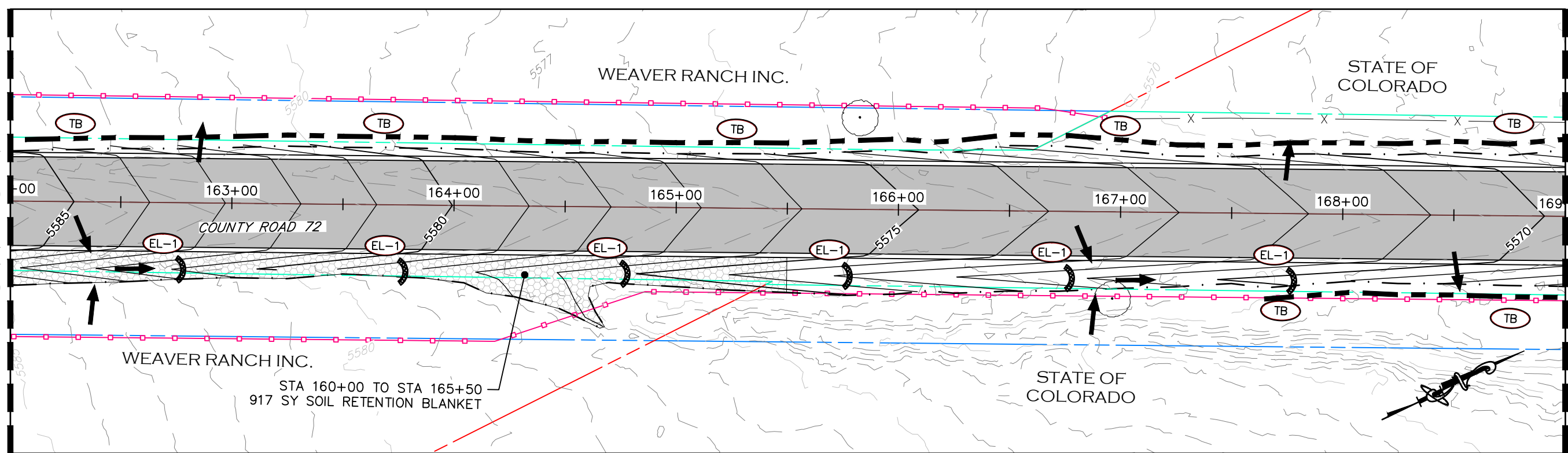
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LARIMER COUNTY ROAD 72
SHEET NO. 78

MATCHLINE STA 155+00
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MATCHLINE STA 169+00
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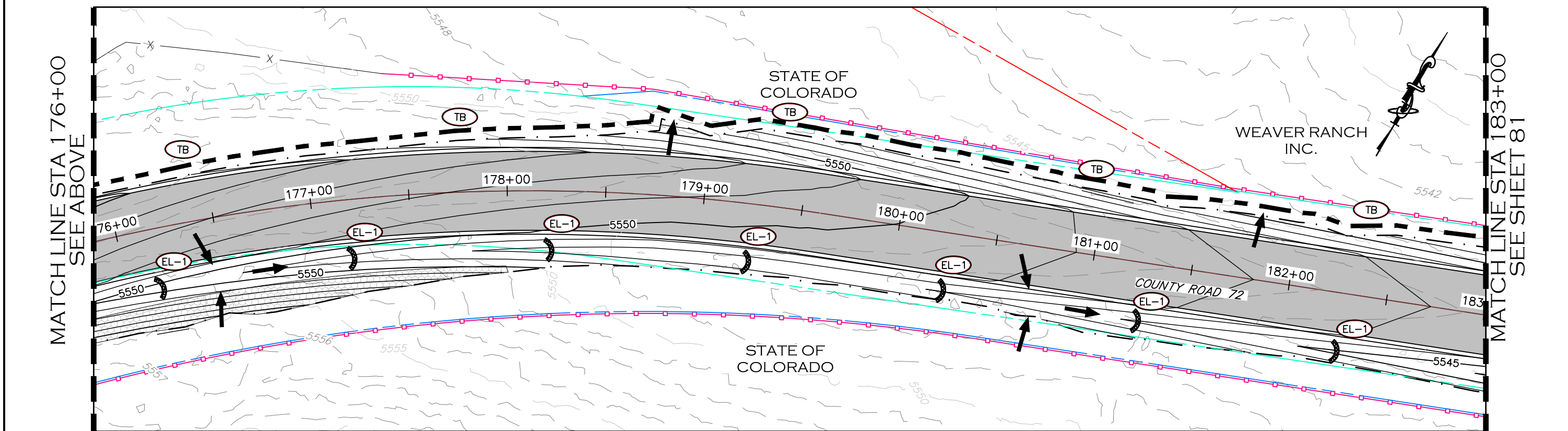
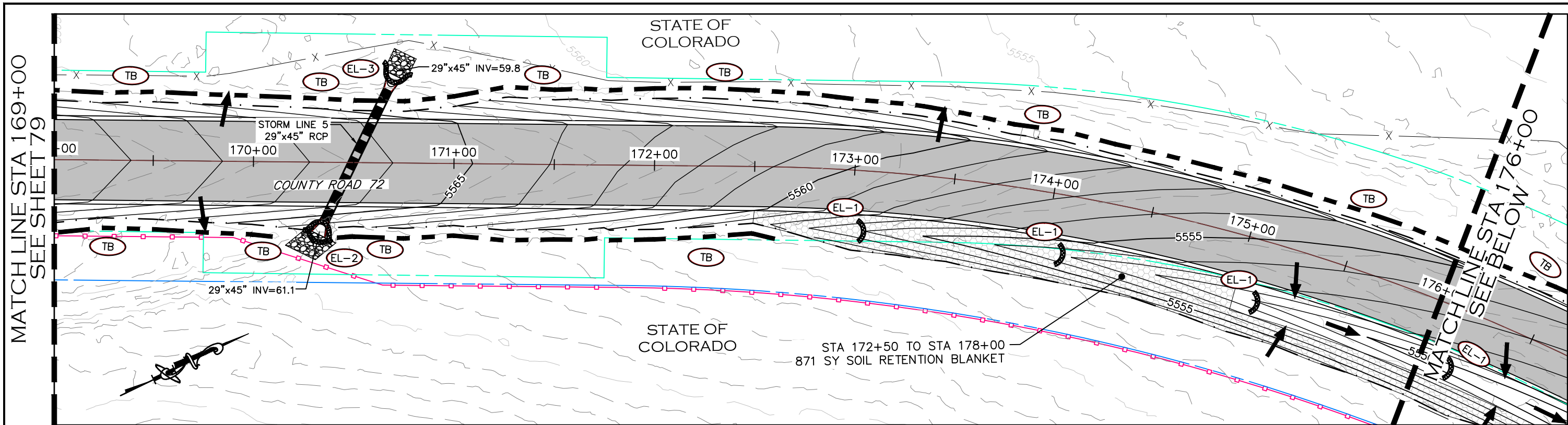


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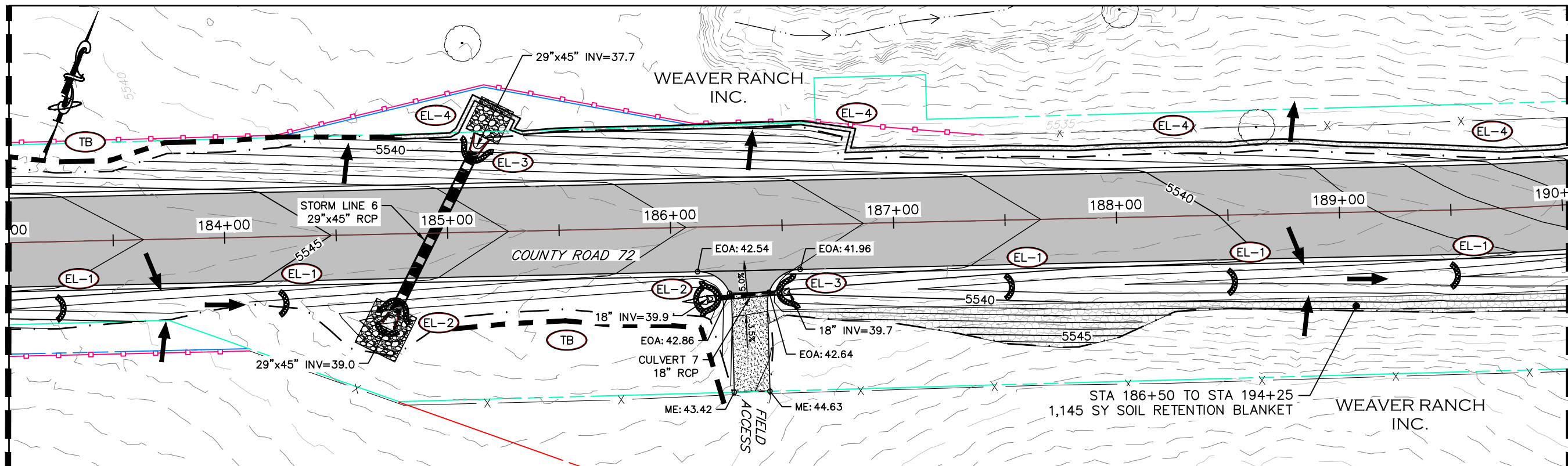
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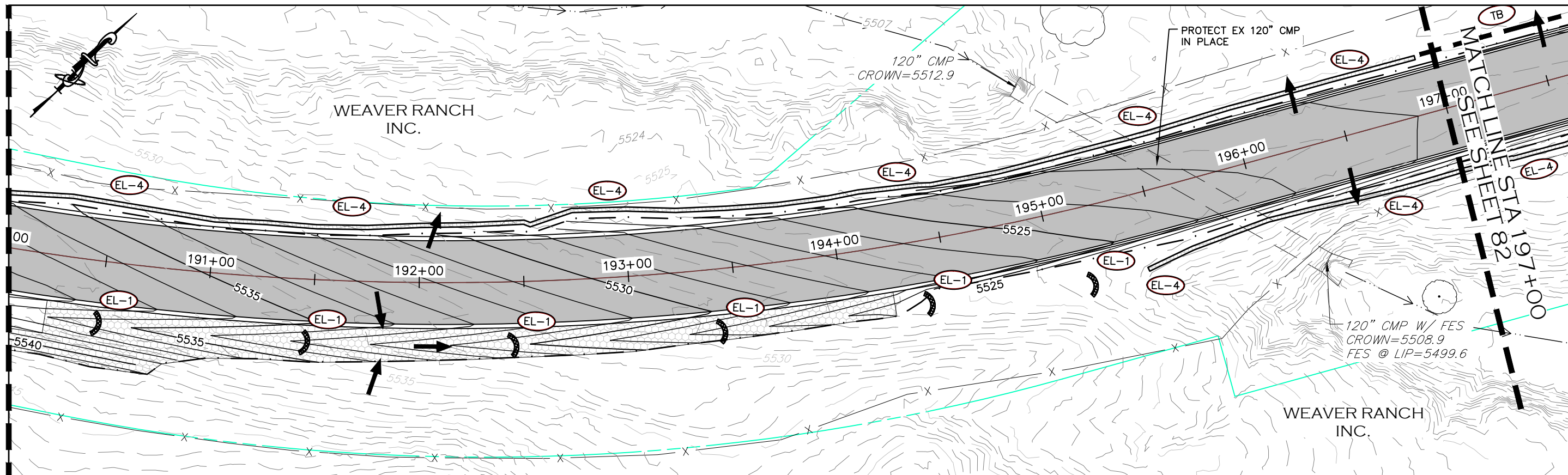
PROJECT NO. 335
LARIMER COUNTY ROAD 72
SHEET NO. 80

MATCHLINE STA 183+00
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MATCHLINE STA 197+00
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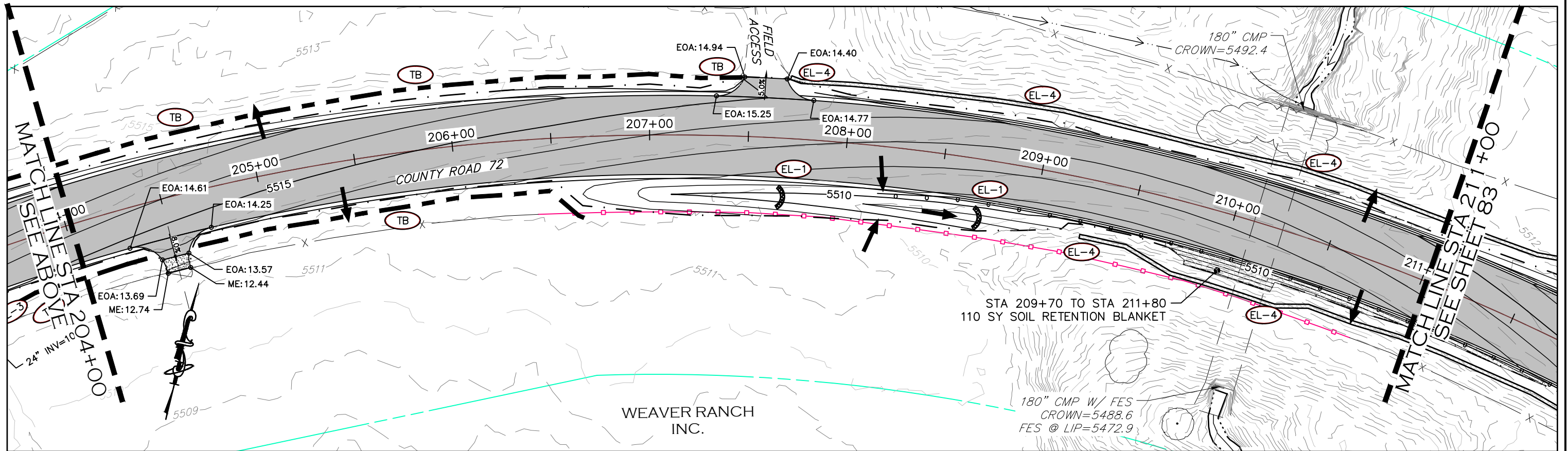
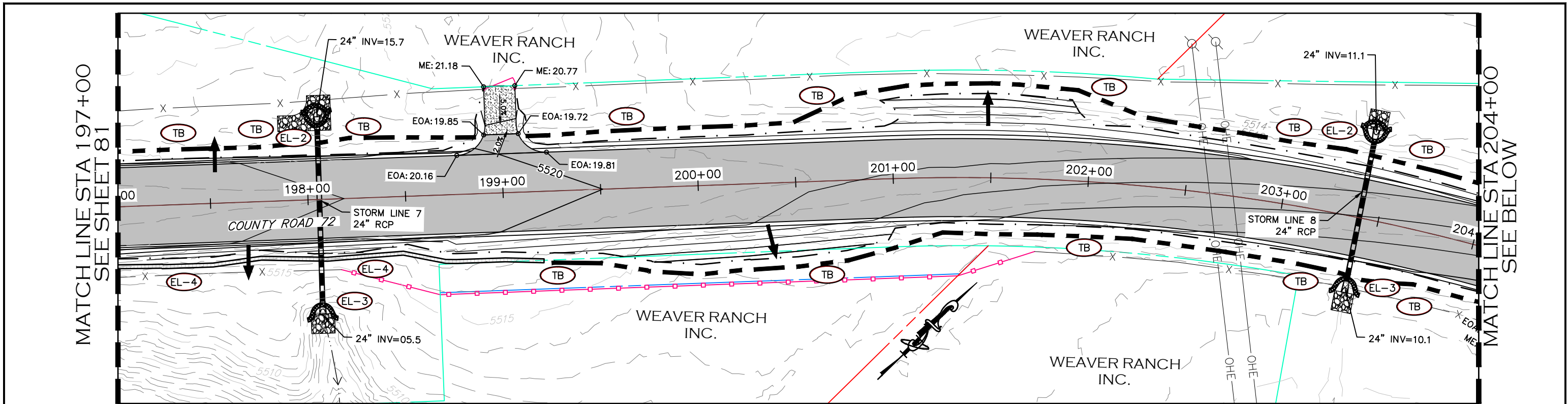


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PROJECT NO. 335
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SHEET NO. 81



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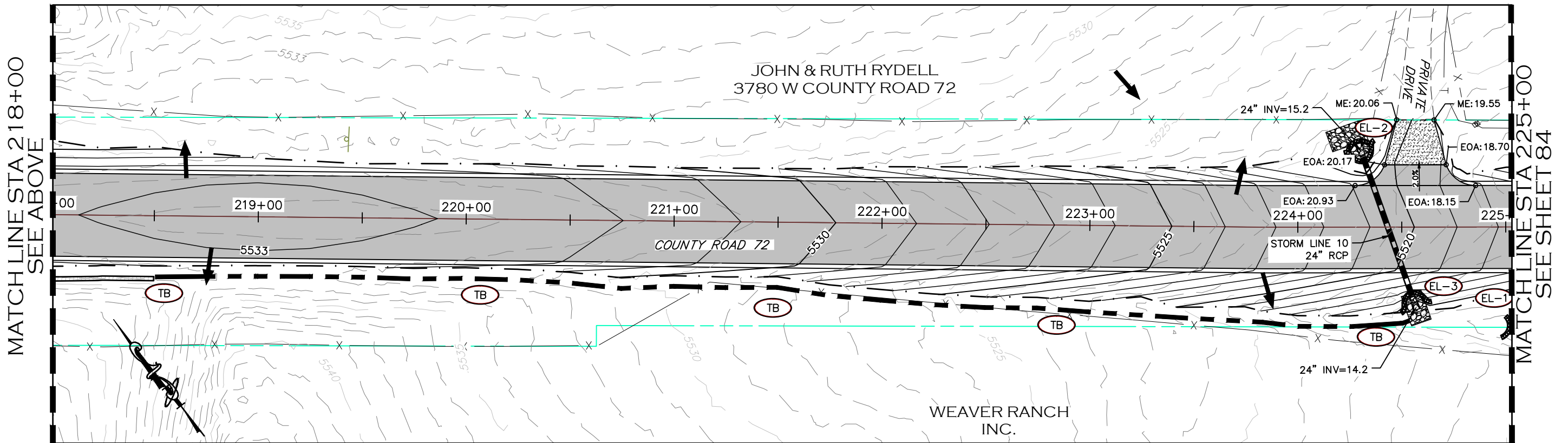
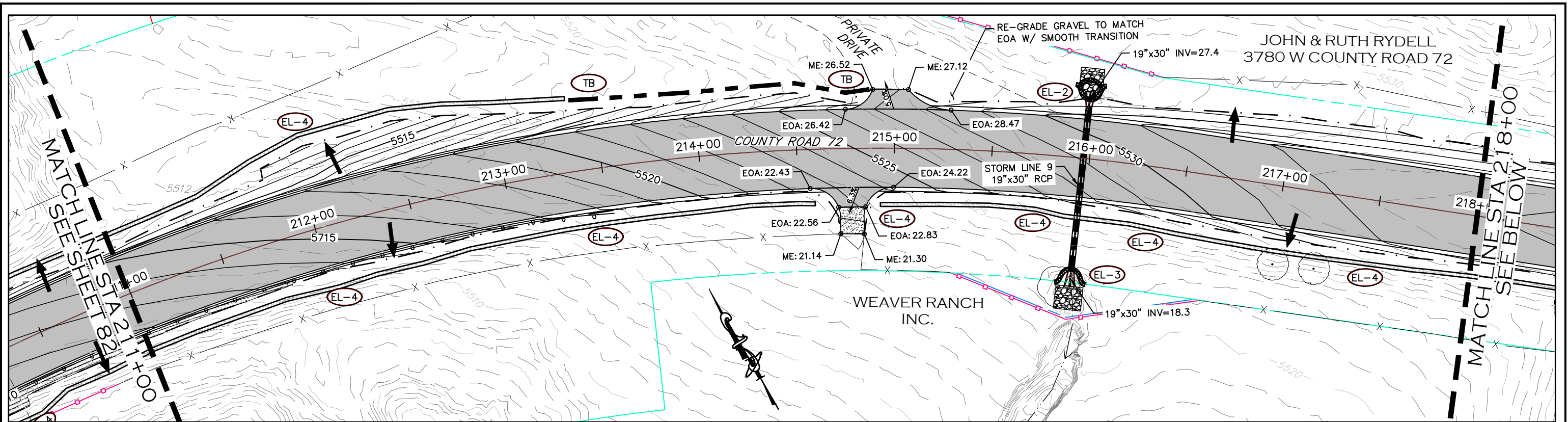


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PROJECT NO. 335
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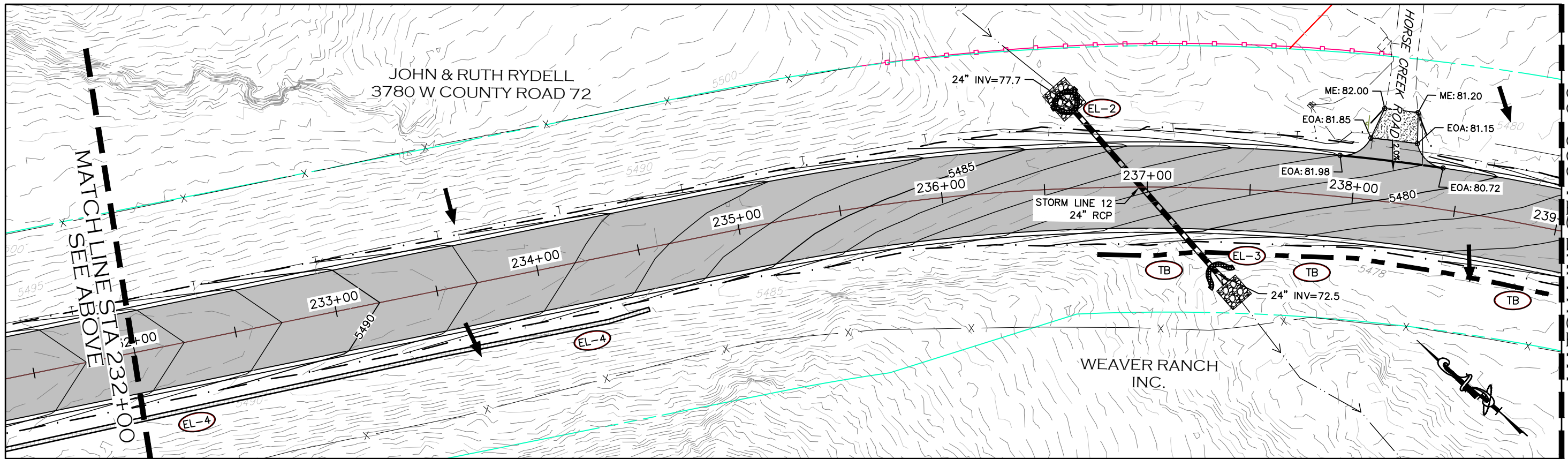
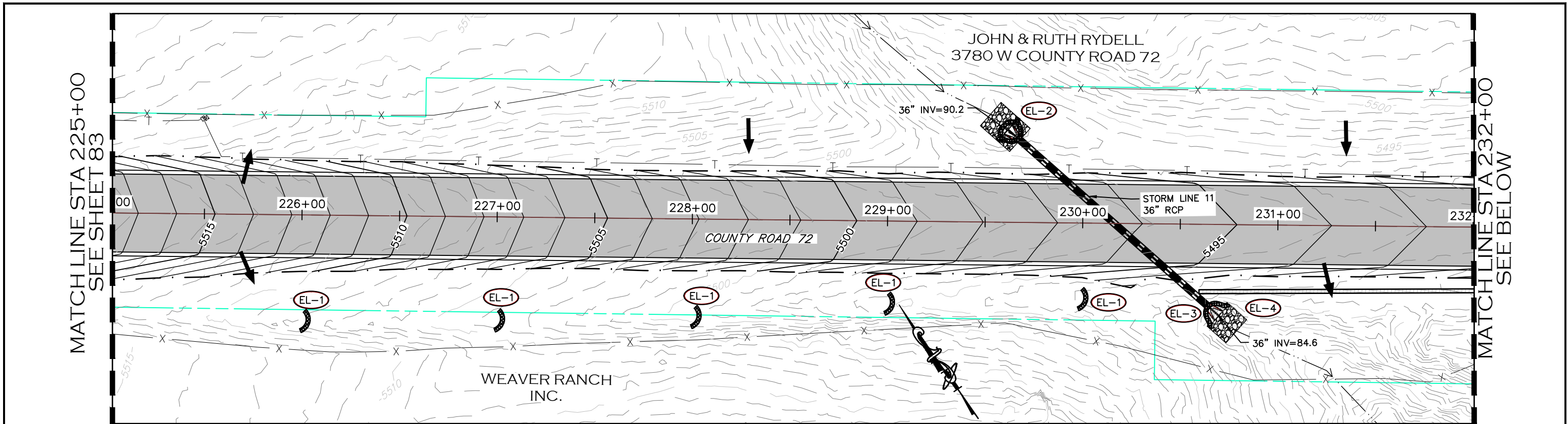


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STATION 211+00 TO 225+00

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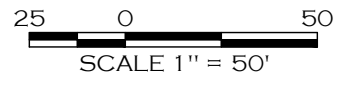
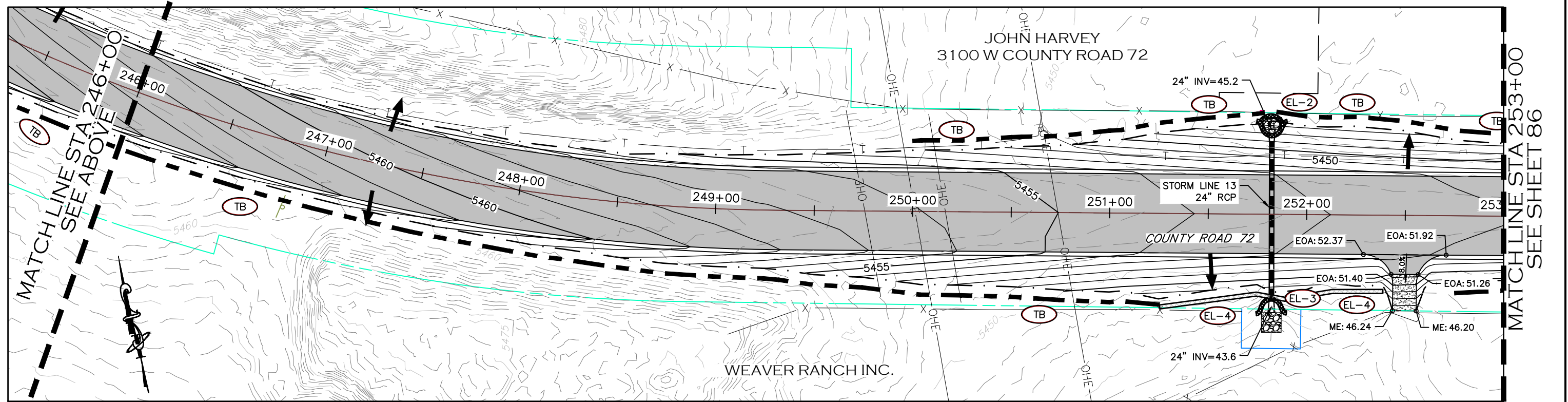
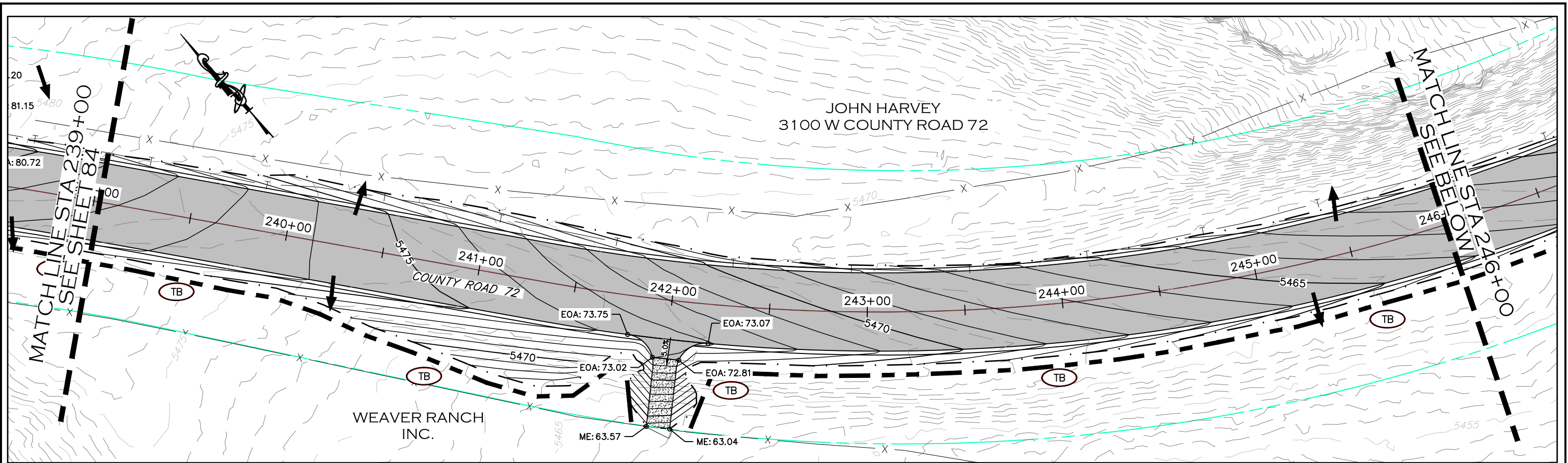
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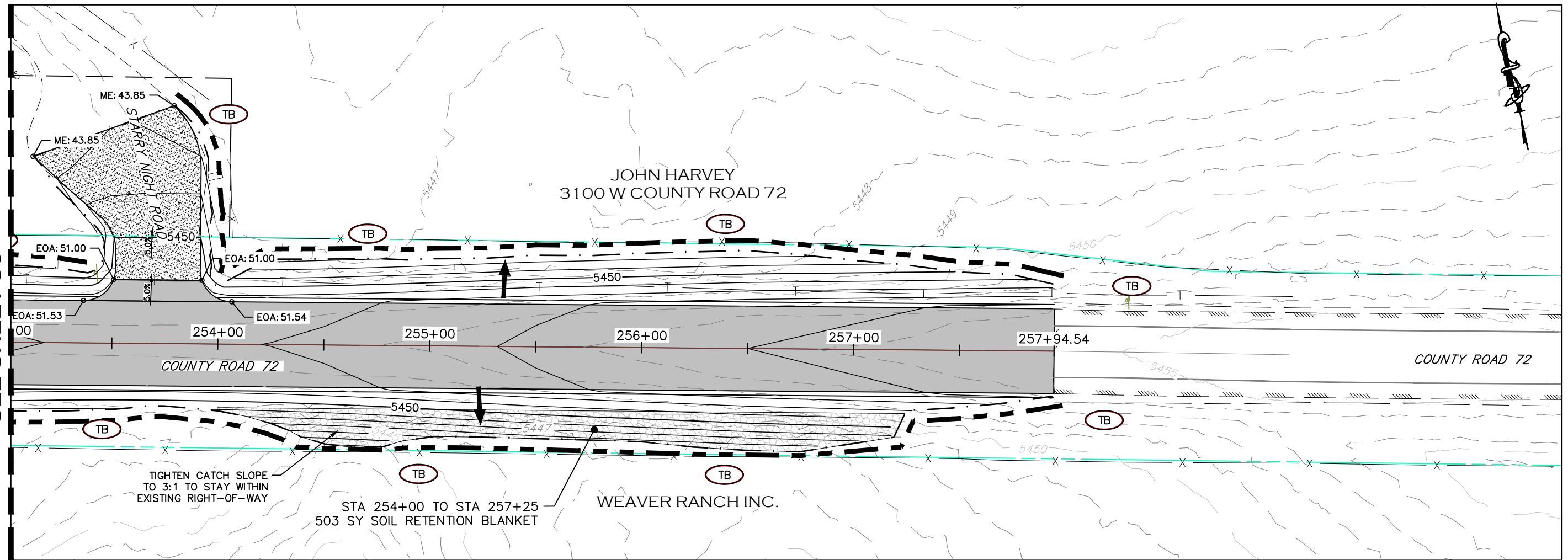
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STATION 253+00 TO 258+31

PROJECT NO. 335
LARIMER COUNTY ROAD 72
SHEET NO. 86

1. SITE DESCRIPTION

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

A. **PROJECT SITE LOCATION:** Larimer County Road (LCR) 72 is located in Northeast Larimer County. The improvements to LCR 72 extend from Highway 287 to County Road 21.
Location or address of construction office: To Be Determined

B. **PROJECT SITE DESCRIPTION:** LCR 72 Roadway improvements include re-alignment of multiple horizontal curves and re-grading of several large vertical curves to improve sight distance and increase the design speed along the corridor. The new roadway will be paved with asphalt and have two 12-foot travel lanes and 8-foot paved shoulders. Catch slopes will be constructed to improve the overall safety of the roadway. Improvements also include removing and replacing multiple culverts to maintain historic drainage patterns in the area. The project also includes the addition of a concrete box culvert at Owl Creek.

C. **PROPOSED SEQUENCING FOR MAJOR CONSTRUCTION ACTIVITIES:** The construction will follow the following general sequence:

1. Install perimeter control and pre-construction Best Management Practices (BMPs), including installation of temporary tree protection.
2. Clearing, grubbing, and tree removal.
3. Removal of existing roadway material.
4. Strip and Stockpile topsoil.
5. Excavation and grading for new roadway profile.
6. Installation of precast concrete box culverts.
7. Installation of storm sewer and culverts.
8. Roadway paving.
9. Stabilize disturbed areas (seeding and mulching)
10. Remove BMPs upon site stabilization and County approval.

D. **ACRES OF DISTURBANCE:**

1. Total area of construction site (LOC (PERMITTED AREA)): 2,187,880 sq. ft. (50.22 acres)
2. Total area of proposed disturbance (LDA): 1,325,950 sq. ft. (30.45 acres)
3. Total area of seeding: 505,460 sq. ft. (11.60 acres)
4. Total area of pre-project impervious surface: 9,280 sq. ft. (0.21 acres)
Asphalt: 9,280 sq. ft. (0.21 acres)
Gravel: 670,705 sq. ft. (15.40 acres)
5. Total area of final impervious surface: 641,980 sq. ft. (14.74 acres)

E. **EXISTING SOIL DATA:** Existing soil type includes: Connerton-Sylvandale complex, Kirtley-Roberts ranch complex, Baller-Rock outcrop complex, Harlan loam, and Rock outcrop.

F. EXISTING VEGETATION, INCLUDING PERCENT COVER:

During design the SWMP Administrator for Design in consultation with the Engineer will determine if the SWMP Administrator for Design or the SWMP Administrator for Construction will conduct the Vegetation Transects as outlined in Chapter 4.11.2 of the CDOT's Erosion Control and Stormwater Quality Guide.

<https://www.codot.gov/programs/environmental/landscape-architecture/erosion-storm-quality/swqchapter4.pdf>]

Pre-Construction Date of survey: _____ % Density: _____

Description of existing vegetation:

Map or table showing transect locations in SWMP tab 17:

Post-Construction Date of survey: _____ % Density: _____

Description of existing vegetation:

Date of CDPS-SCP Closure: _____

Map or table showing transect locations in SWMP tab 17:

G. **POTENTIAL POLLUTANTS SOURCES:** See First Construction Activities under Potential Pollutant Sources. The SWMP Administrator for Construction shall prepare a list of all potential pollutants and their locations in accordance with subsection 107.25.

H. RECEIVING WATER:

1. Outfall locations: There are 13 storm culverts that will be replaced with this project to maintain historic drainage patterns. There are also 6 proposed roadside ditch culverts which will maintain drainage under driveway access locations. The majority of these culverts convey drainage to Campbell Creek. There are two large existing culverts that convey a Campbell Creek tributary and Campbell Creek under LCR 72 that will not be impacted with this project. There is also one new concrete box culvert that will be constructed with this project to eliminate roadway overtopping during large stormwater events. This drainage is identified as Owl Creek. All proposed drainage structures are shown on the storm sewer plan and profile sheets.
2. Names of immediate receiving water(s) on site: Owl Creek (west end near HWY 287) and Campbell Creek.
3. Ultimate receiving water(s): Dry Creek Reservoir
4. Horizontal distance to nearest ultimate receiving water from project: 2.5 miles
5. Description of all stream crossings located within the Construction Site Boundary:

Location	Stream Name	Description Of Any Disturbed Upland Areas
STA 120+00	Owl Creek	Proposed 4'x24' Concrete Box Culvert – Roadway fill to create cover and minor cut for drainage
STA 170+50	Unnamed DRN 3 – tributary to Campbell Creek	Proposed 36" RCP Culvert – remove and replace existing, minor cut for construction
STA 195+60	Campbell Creek Tributary	Existing 120" CMP Culvert – no disturbance
STA 210+20	Campbell Creek	Existing 180" CMP Culvert – no disturbance
STA 216+00	Unnamed DRN 2 – tributary to Campbell Creek	Proposed 24" CMP Culvert – remove and replace existing, minor cut for construction
STA 230+20	Unnamed DRN 1 – tributary to Campbell Creek	Proposed 36" RCP Culvert – remove and replace existing, minor cut for construction

I. ALLOWABLE NON-STORMWATER DISCHARGES:

ALLOWABLE:

1. Groundwater and stormwater dewatering: Discharges to the ground of water from construction dewatering activities may be authorized provided that:
 - a. the source is groundwater and/or groundwater combined with stormwater that does not contain pollutants
 - b. the source and BMPs/Control Measures are identified in the SWMP
 - c. discharges do not leave the site as surface runoff or to surface waters
 - d. The contractor shall protect all work areas and facilities from water at all times. Areas and facilities subject to flooding, regardless of the source of water, shall be promptly dewatered and restored at no cost to the owner. This shall include removal of any debris caused by flooding. Any dewatering shall be done in accordance with Subsection 107.25

CONTAMINATED:

2. If discharges do not meet the above criteria a separate CDPS permit shall be obtained by the Contractor from the CDPHE. See standard special provision 250 Hazardous Waste and Contaminated Water.

Discharge Description	Site Map #	Method Statement (Location)
Dewatering*		
Uncontaminated Spring		
Concrete Wash Water (in-ground washout structure)		
Landscape Irrigation Return Flows		
Emergency Fire Fighting		

*Refer to CDPHE Low Risk Discharge Guidance Document of Uncontaminated Groundwater to Land. <https://www.colorado.gov/pacific/sites/default/files/WQ%20LOW%20RISK%20GW.pdf>

*If ground water does not meet water quality standards for receiving water a separate CDPS Dewatering Permit shall be obtained by the Contractor from CDPHE in accordance with subsections 107.02 and 107.25.



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COMPUTER INFORMATION		REVISIONS			AS CONSTRUCTED		STORMWATER MANAGEMENT PLAN	PROJECT NO. 335	
CREATION DATE:	07/13/20	(R-1)			NO REVISIONS:			LARIMER COUNTY ROAD 72	
MODIFICATION DATE:	01/07/21	(R-2)		REVISED:					
FILE LOCATION:	INTEREST PROJECTS\2019 PROJECTS\1421-094-00 (LARIMER COUNTY ROAD 72)\DWG\ENGINEERING PLANS	(R-3)		VOID:					
FILE NAME:	1421-094-00 STORMWATER MANAGEMENT PLAN.DWG	(R-4)							
		(R-5)						SHEET NO. 86	

2. SITE MAP COMPONENTS:

Pre-construction

- A. PROJECT CONSTRUCTION POTENTIAL SITE BOUNDARIES See limits of grading on the Grading & Erosion Control Plan.
- B. ALL AREAS OF GROUND SURFACE DISTURBANCE See limits of grading on the Grading & Erosion Control Plan.
- C. AREAS OF CUT AND FILL See roadway Plan and Profile and the Grading & Erosion Control Plan.
- D. LOCATION OF ALL STRUCTURAL CONTROL MEASURES IDENTIFIED IN THE SWMP See Grading & Erosion Control Plan.
- E. LOCATION OF NON-STRUCTURAL CONTROL MEASURES AS APPLICABLE IN THE SWMP SWMP Contractor to identify the need and location for non-structural BMPs.
- F. STREAMS, SPRINGS, WETLANDS AND OTHER STATE WATERS, INCLUDING AREAS THAT REQUIRE PRE-EXISTING VEGETATION BE MAINTAINED WITHIN 50 FEET OF A RECEIVING WATER See Grading & Erosion Control Plan.
- G. PROTECTION OF TREES, SHRUBS AND CULTURAL RESOURCES See Demolition Plan for trees to remain in place.
- H. FLOW ARROWS THAT DEPICT STORMWATER FLOW DIRECTIONS ON-SITE AND RUNOFF DIRECTION See Grading & Erosion Control Plan.
- I. AREAS USED FOR STORING AND STOCKPILING OF MATERIALS, STAGING AREAS (field trailer, fueling, etc.) WASTE ACCUMULATION and BATCH PLANTS INCLUDING MASONARY MIXING STATIONS Contractor to identify.
- J. LOCATIONS OF ALL STREAM CROSSING LOCATED WITHIN THE CONSTRUCTION SITE BOUNDARY See Plan & Profile Key Map.

3. QUALIFIED STORMWATER MANAGERS:

- A. SWMP ADMINISTRATOR FOR DESIGN: CDOT Certified Individual responsible for developing SWMP Plan Sheets and SWMP Site Maps during the design phase. [The 207 & 212 requires that topsoil testing and the topsoil amendment requirements be completed by the SWMP Administrator for Design, for additional information see the SWMP development tools on the Landscape Architecture Section Website <https://www.codot.gov/programs/environmental/landscape-architecture/207-and-212-ppp-required-swmp-development-tools-1>]

Name/Title	Contact Information	Certification #
Skylar Brower	sbrower@interwestgrp.com	

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

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

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

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

- D. PERMANENT STABILIZATION SUBJECT MATTER EXPERT: This qualified individual will be either a Regional Environmental Staff member, or an Independent Contractor Controller (Independent Assurance Program). This expert is a project team leader responsible for ensuring project adherence to requirements of the 207 and 212 Project Special Provisions as follows, and will be available for questions regarding permanent stabilization requirements. <https://www.codot.gov/programs/environmental/assets/construction-phase-inspection-and-verification-checklist-for-successful-roadside-revegetation>]

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

Name/Title	Contact Information [phone & email]

4. STORMWATER MANAGEMENT CONTROLS FOR FIRST CONSTRUCTION ACTIVITIES

THE CONTRACTOR SHALL PERFORM THE FOLLOWING:

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



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CREATION DATE:	07/13/20	<input type="checkbox"/> R-1			NO REVISIONS:		LARIMER COUNTY ROAD 72
MODIFICATION DATE:	01/07/21	<input type="checkbox"/> R-2			REVISED:		
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FILE NAME:	1421-094-00 STORMWATER MANAGEMENT PLAN.DWG	<input type="checkbox"/> R-4					
		<input type="checkbox"/> R-5				SHEET NO. 88	

5. DURING CONSTRUCTION

RESPONSIBILITIES OF THE SWMP Administrator for Construction

The SWMP should be considered a "living document" that is continuously reviewed and modified throughout the construction phasing. During construction, the following items shall be added, updated, or amended as needed by the SWMP Administrator for Construction in accordance with subsection 208.03.

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

- A. **MATERIALS HANDLING AND SPILL PREVENTION:** prior to construction commencing the Contractor shall submit a Spill Prevention, Control and Countermeasure Plan, see subsection 208.06. Materials handling shall be in accordance with subsection 208.06.
- B. **STOCKPILE MANAGEMENT:** Shall be done in accordance with subsections 107.25 and 208.07
- C. **CONCRETE WASHOUT:** Concrete wash out water or waste from field laboratories and paving equipment shall be contained in accordance with subsection 208.05.
- D. **SAW CUTTING:** Shall be done in accordance with subsections 107.25, 208.04, 208.05
- E. **STREET SWEEPING:** Shall be done in accordance with subsection 208.04

6. INSPECTIONS

- A. Water Quality Inspections shall be in accordance with subsection 208.03(c).
- B. Permanent Stabilization Inspections shall be in accordance with subsections 207.03 and 212.05.

7. CONTROL MEASURE MAINTENANCE

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

8. RECORD KEEPING

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

9. INTERIM, PERMANENT STABILIZATION and LONG TERM STORMWATER MANAGEMENT

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

- A. **SEEDING PLAN** Soil Preparation, soil conditioning or topsoil, seeding (native), mulching (weed free) and mulch tackifier will be required on an estimated 10.76 acres of disturbed area within the right-of-way limits which are not surfaced. The following types and rates shall be used:

[The CDOT Landscape Architects or the CDOT Seed Calculator located on the Landscape Architects website can be utilized to develop a seed mix. <https://www.codot.gov/programs/environmental/landscape-architecture/native-seed-calculator>]

The following seed mixes as shown on the Permanent Stabilization Site Maps and rates shall be used:

COMMON NAME	BOTANICAL NAME	LBS. PLS PER ACRE
TBD	TBD	TBD
TOTAL		

- B. **SEEDING APPLICATION:** The following seeding methods shall be used for all areas which are not surfaced and as shown on the Permanent Stabilization Site Maps. Soil compaction shall be minimized for areas where permanent stabilization will be achieved through vegetative cover. Drill Seed 0.25 inch to 0.5 inch

into the soil. In small areas not accessible to a drill, hand broadcast or hydroseed at double the rate and rake 0.25 inch to 0.5 inch into the soil per subsection 212.

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

The Contractor shall provide the location of where seed is stored and access to stored seed locations to the Engineer. Seed stored by the Contractor for longer than 30 days will be rejected.

- C. **MULCHING APPLICATION:** Apply a minimum of 2 tons of certified weed free hay or 2 1/2 tons of certified weed free straw per acre and in accordance with Section 213, and mechanically crimp it into the soil in combination with an organic mulch tackifier.

- 1. Prior to winter shutdown or the summer seeding window closure: Uncompleted slopes shall be mulched with 2 tons of mulching (weed free) per acre, mechanically crimped into the topsoil in combination with an organic mulch tackifier in accordance with subsections 208 and 213.

D. SPECIAL REQUIREMENTS:

- 1. The Contractor shall increase the Seeding Plan rates (LBS. PLS / Acre) as shown by 1.5 times for hydraulic and broadcast methods at no additional cost to the Department.
- 2. Soil amendments, seedbed preparation, and permanent stabilization mulching shall be accomplished within four working days of placing the topsoil on the de-compacted civil subgrades. If placed topsoil is not mulched with permanent stabilization mulch within four working days, the Contractor shall complete interim stabilization methods in accordance with subsection 208.04(e) at no additional cost to the Department.
- 3. Permanent stabilization mulching shall be accomplished within 24 hours of hydraulic application of native seed.
- 4. The Contractor shall submit a proposed Permanent Stabilization Phasing Plan to the Engineer for approval showing how the SWMP Permanent Stabilization Plans will be implemented to minimize damage to seeded areas.

- E. **SOIL AMENDMENT REQUIREMENTS:** Minimum amendment material requirements for all disturbances to receive seeding (native). [select methods that were used on the Permanent Stabilization Site Maps and delete all others. Round quantities up to the nearest whole number]

Total Acres of Seeding (Native) Drill

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

Total Acres of Seeding (Native) Hydraulic

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

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CREATION DATE:	07/13/20	(R-1)	NO REVISIONS:		LARIMER COUNTY ROAD 72		
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		(R-5)					

Total Acres of Seeding (Native) Broadcast

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

F. **SOIL RETENTION COVERING:** On slopes and ditches requiring a blanket or turf reinforcement mat (trm), the blanket/trm shall be placed in lieu of mulch and mulch tackifier and placed after seeding (native). See SWMP Site Map for blanket/trm locations.

G. **Permanent Stabilization Application Under Structures:** Under structures shade patterns should be considered and the use of Median Cover Material (Stone) or other stabilized options with an approved Project Special Provision should be used. See SWMP Site Map for locations. [The SWMP Administrator for Design should review the selected material for use under structures with the region environmental staff and hydraulic engineer]

H. **RESEEDING OPERATIONS/CORRECTIVE STABILIZATION:**

Prior to partial acceptance. [Select item(s) that apply]

1. All seeded areas shall be reviewed during the 7 day inspections by the SWMP Administrator for Construction and or Erosion Control Inspector for bare soils caused by surface or wind erosion. Bare areas caused by surface or gully erosion, blown away mulch, etc. shall be re-graded, seeded, and have the designated mulching applied as necessary, at no additional cost to the project.
2. The Contractor shall maintain seeding/mulch/tackifier/blanket/TRM, mow to control weeds or apply herbicide to control weeds in the seeded areas until Partial Acceptance of the stormwater construction work.

I. **LONG TERM STORMWATER MANAGEMENT**

See Item # 18 (as defined in section 208.03(D)(1) of the SWMP for long term management practices to control pollutants in stormwater discharges that will occur after construction operations are completed. [The SWMP Administrator for Design should work with the design team to determine if permanent water quality is required on the project]

10. PRIOR TO PROJECT FINAL ACCEPTANCE

- A. Partial Acceptance shall be in accordance with subsections 107.25 (d), 208.10 and 214.04. At the Partial Acceptance of the project, it shall be determined by the SWMP Administrator for Construction and the Engineer which temporary control measures shall remain until 70% revegetation is established or which shall be removed. When directed by the Engineer, removal and disposal of temporary control measures shall be included in the cost of work.
- B. At the end of the project, all ditch checks shall either consist of temporary erosion logs (or equivalent) or permanent riprap.
- C. All storm drains shall be cleaned prior to the Final Acceptance of the project. Work shall be included in 202 Clean Culvert. [**Check with Region Water Quality staff to see if CLEAN CULVERT PSP is needed and what Pay Item to use.**]



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ENGINEERING DEPARTMENT

200 WEST OAK, SUITE 3000
POST OFFICE BOX 1190
FORT COLLINS, COLORADO 80522-1190
(970)498-5700
(970)498-7986 FAX

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11. NARRATIVES: [Below are the CDOT narratives covered in CDOT's Standard Specifications and M Standard Plans. Proposed non-standard control measures during design should be added to the matrix. Place an X in the column for M-208 Standard or "X" for Non-Standard and provide a narrative. The narrative shall include what, when, where and why the control measure is being used. Also place an X in the appropriate implementation column(s)] [During design place a "B" in the Initial Activities Column for any control measures that must be installed before construction activity starts.]

Control Measure Matrixes During Construction:

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

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

APPLICATION, CONTROL MEASURE	NARRATIVE	M- 208 STANDARD or "X" for NON-STANDARD	IN USE ON SITE	CONTROL MEASURE IMPLEMENTATION PHASE		
				INITIAL ACTIVITIES	INTERIM ACTIVITIES	PERMANENT STABILIZATION
PROTECTION OF EXISTING WETLANDS Fence (plastic) and erosion logs	Fence (plastic) shall be placed in combination with erosion logs to prevent encroachment of construction traffic and sediment into state waters prior to start of construction disturbances. Fence (plastic) shall be placed adjacent to the wetlands; erosion logs shall be placed between the plastic fence and disturbance area. Logs shall be placed to direct flows away from or filter water running into wetlands from disturbance areas.					
PROTECTION OF EXISTING TREES/LANDSCAPING Fence (plastic)	Fence (plastic) shall be used in areas indicated in the plans to prevent encroachment of construction traffic and sediment for the protection of mature trees and/or existing landscaping prior to start of construction disturbances.					
CHECK DAM/DITCH CHECK Erosion log, silt berm, silt dike, rock check dam	Placed in ditches immediately upon completion of ditch grading to reduce velocity of runoff in ditch. For existing ditches, place prior to start of construction disturbances.	M-208		X	X	
Storm Drain Inlet Protection In Paved Roadways (Type 1, 2 and 3 as shown on M-208-1, sheet 5 of 11)	Manufactured storm drain inlet protection placed prior to construction disturbances as detailed in M-208-1, to protect existing inlets or immediately upon completion of new inlets to prevent sediment from entering the inlet throughout construction.	M-208				
Storm Drain Inlet Protection In Native Seed Areas (M-604 Standard Inlets Type C and D)	Erosion logs or aggregate bags placed around inlet grate to prevent sediment from entering inlet. Place prior to construction disturbances to protect existing inlets or immediately upon completion of new inlets.	M-208				
CULVERT INLET/OUTLET PROTECTION Erosion logs, aggregate bags	Placed at mouth of culvert inlets and over top of culvert at inlet and outlet where disturbance may be occurring adjacent to pipe to prevent sediment laden water from entering pipe or drainage. Place prior to start of construction disturbances.	M-208		X	X	X
TYPE C, TYPE D AND TYPE 13 PROTECTION Erosion logs, aggregate bags, erosion bales	Placed around inlet grate or slope and ditch paving to prevent sediment from entering inlet. Place prior to start of construction disturbances.	M-208				
STOCKPILE PROTECTION Temporary berm, erosion logs, aggregate bags*	Placed within specified distance, in accordance with subsection 208.06, from toe to contain sediment around stockpile. *Aggregate bags are easily moved and replaced for access during the work day. Place prior to start of stockpile, increase control as stockpile increases size.	M-208			X	
TOE OF FILL PROTECTION Erosion logs, temporary berm, silt fence, topsoil windrow*	Place prior to slope/embankment work to capture sediment and protect and delineate undisturbed areas. *Can be used to stockpile topsoil for salvage.	M-208		X	X	
PERIMETER CONTROL Erosion logs, silt fence, temporary berm, topsoil windrow*	Placed prior to construction commencing to address potential run-on water from off site, and to divert around disturbed area. *Can be used to stockpile topsoil for salvage.	M-208		X	X	
SEDIMENT CONTROL/ SLOPE CONTROL Silt fence, erosion logs	Placed on the contour of a slope to contain and slow down construction runoff. Place prior to start of construction disturbances.	M-208		X	X	
TEMPORARY SEDIMENT TRAP	Used to capture sediment laden runoff from disturbed areas < 5 acres during construction. Place prior to start of construction disturbances. Outlets that withdraw water from or near the surface may be installed when discharging from basins and impoundments.	M-208				
EMBANKMENT PROTECTION OR TEMPORARY SLOPE DRAIN OUTLET PROTECTION	Placed as a conduit or chute to drain runoff down slope and to prevent erosion of slope. Material placed as energy dissipater to prevent erosion at outlet structure.	M-208 M-601-12			X X	X X



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		(R-5)			STORMWATER MANAGEMENT PLAN	SHEET NO. 91				

Riprap, or approved other					
CONCRETE WASHOUT In-ground or fabricated	Construction control, used for waste management of concrete and concrete equipment cleaning. Place prior to start of concrete activities.	M-208		X	X
VEHICLE TRACKING PAD	Source control, placed to prevent tracking of sediment from disturbed area to offsite surface. Place prior to start of construction disturbances.	M-208		X	X
Engineered SEDIMENT BASIN	Constructed early in project, prior to storm sewer/ditches and in accordance with 208.05(p) to capture storm flow. Outlet structure and/or outfall shall be modified for temporary sediment control using an approved non-standard detail. Outlets that withdraw water from or near the surface shall be installed when discharging from basins and impoundments, unless infeasible				
DEWATERING (Contractor is responsible for obtaining a permit from Colorado Department of Health and Environment.)	Shall be done in such a manner to prevent potential pollutants from entering state waters.			X	X
TEMPORARY STREAM CROSSING	Constructed over stream or drainage to prevent discharge of pollutants from construction equipment into water.			X	X
CLEAN WATER DIVERSION	Placed to divert clean surface or ground water around disturbance area to prevent it from mixing with construction runoff.			X	X
OTHER					

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

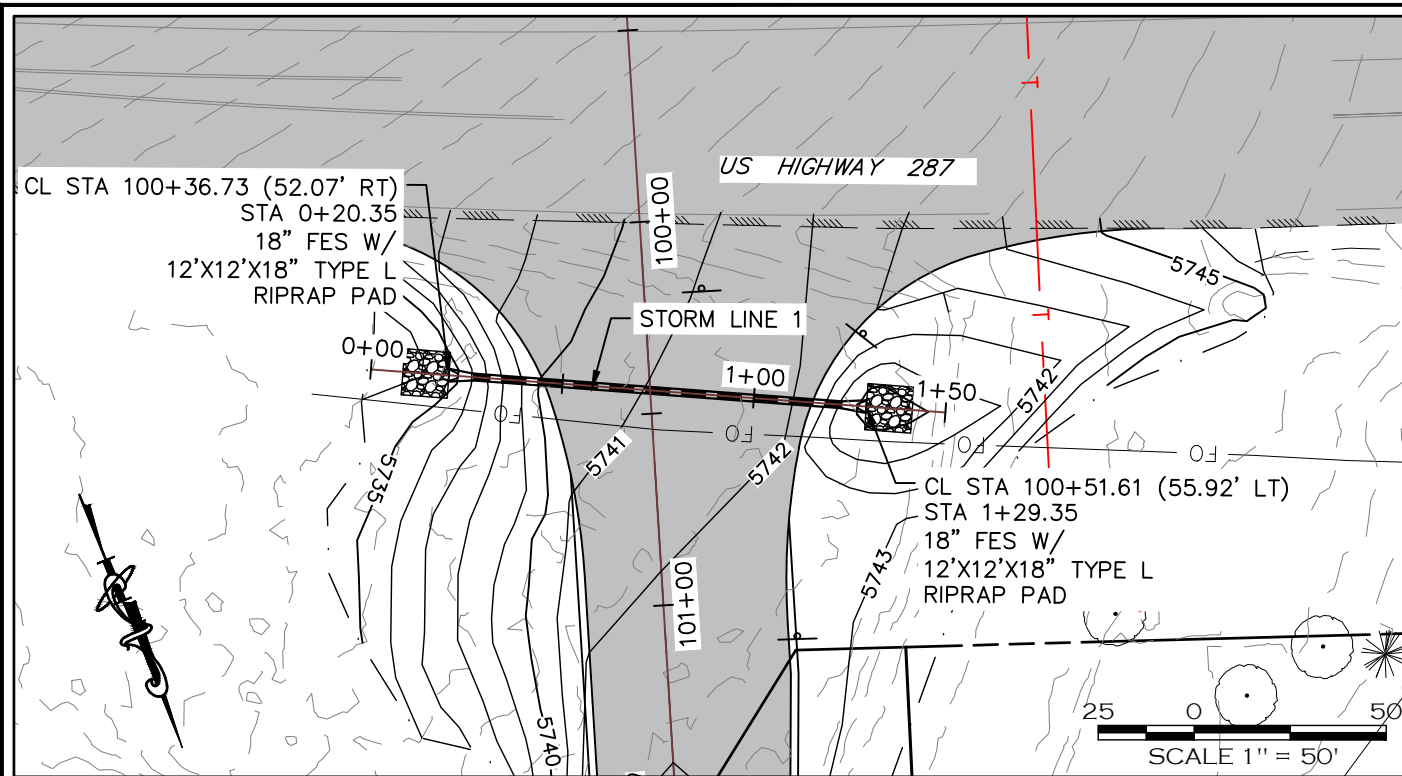
* **Use of vegetative buffer strip requirements.** The CDPHE Water Quality Control Division Technical Memorandum dated August 27, 2015 clarifies the requirements for utilization of existing vegetation as a buffer type of sediment control measure, while maintaining compliance with the CDPS permit for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

APPLICATION, CONTROL MEASURE	NARRATIVE	M-STANDARD or "For NON-STANDARD	IN USE ON SITE	CONTROL MEASURE IMPLEMENTATION PHASE		
				INITIAL ACTIVITY	INTERIM ACTIVITIES	PERMANENT STABILIZATION
* VEGETATIVE BUFFER STRIP Fence (plastic)	Finishing component for filtering sediment-laden runoff from disturbance area. Area within CDOT ROW or temporary easement to be identified on SWMP prior to construction starting.					
GRADING APPLICATIONS (LANDFORM)	Existing or created landforms may be used as a control measure if they prevent sediment from entering or leaving the disturbance area. If a landform directs flow of water to a concentrated outfall point, the outfall point shall be protected to prevent erosion. Area to be identified on SWMP prior to construction starting.	M-208		X	X	
TOPSOIL MANAGEMENT STOCKPILE/SALVAGE Windrow or stockpile	Prior to any site disturbance work commencing, existing topsoil shall be scraped to a depth four inches or as specified, and placed in stockpiles or windrows. Upon completion of final grading, topsoil shall be evenly distributed over embankment to a depth of four inches or as specified.	M-208		X	X	
SURFACE ROUGHENING / GRADING TECHNIQUES	Temporary stabilization of disturbance and to minimize wind and erosion.				X	
SEEDING (TEMPORARY)	Temporary stabilization used for over wintering of disturbance or used to control erosion for areas scheduled for future construction.				X	
BONDED FIBER MATRIX or MULCHING (HYDRAULIC)	Not to be used in areas of concentrated flows, i.e. ditch lines. To be for either Interim or Permanent Stabilization placed as a surface cover for erosion control. May be used as surface cover when work is temporarily halted and as approved by the Engineer for stockpiles.				X	
Straw or Hay MULCH/MULCH TACKIFIER	Interim or Permanent Stabilization placed as a surface cover for erosion control and or seeding establishment. To be installed as Interim Stabilization as a surface cover when work is temporarily halted and as approved by the Engineer				X	X
SPRAY-ON MULCH BLANKET (Not to be used in areas of concentrated flows, i.e. ditch lines.)	Interim or Permanent Stabilization placed as a surface cover for erosion control and or seeding establishment. To be installed as temporary surface cover when work is temporarily halted and as approved by the Engineer				X	X

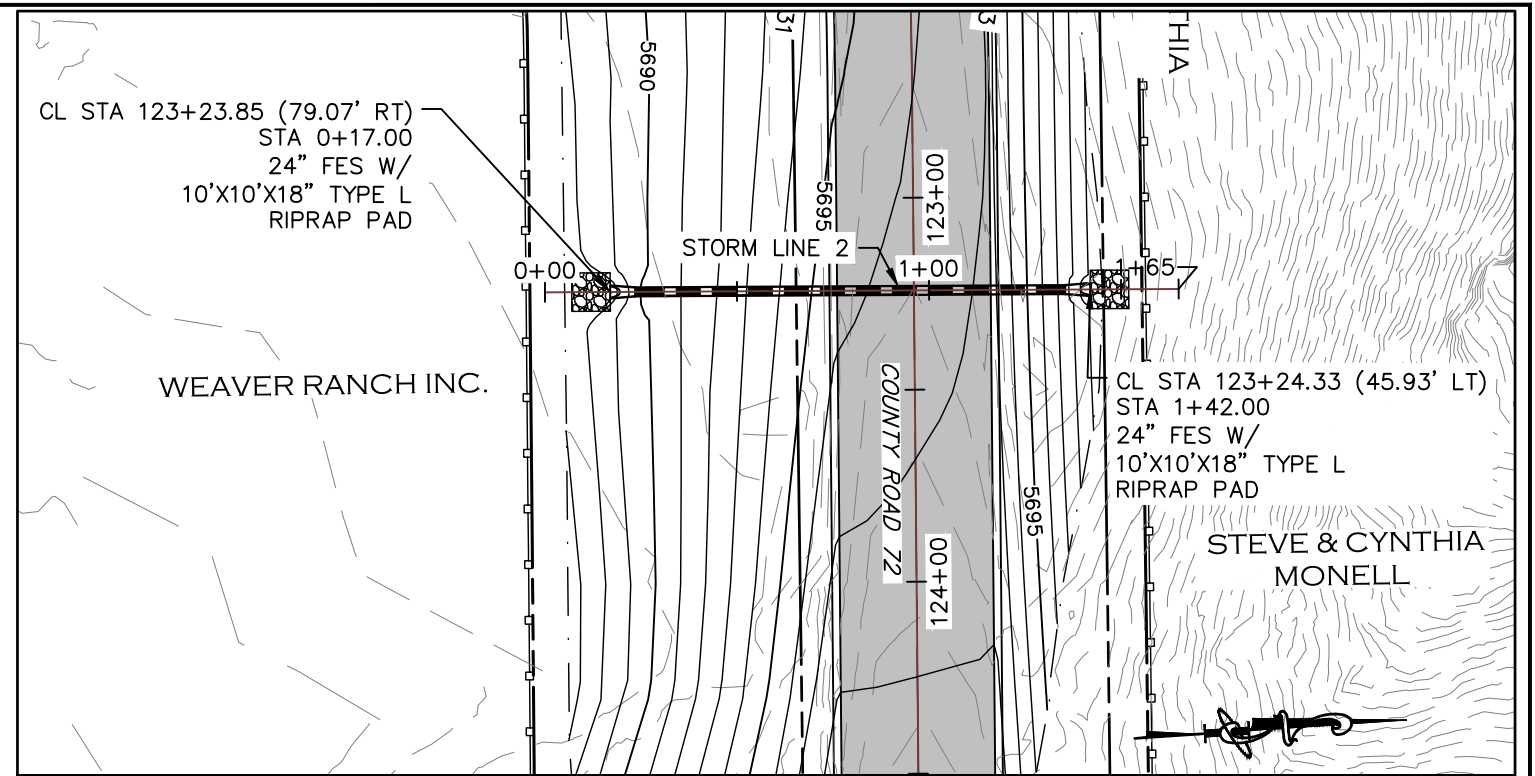


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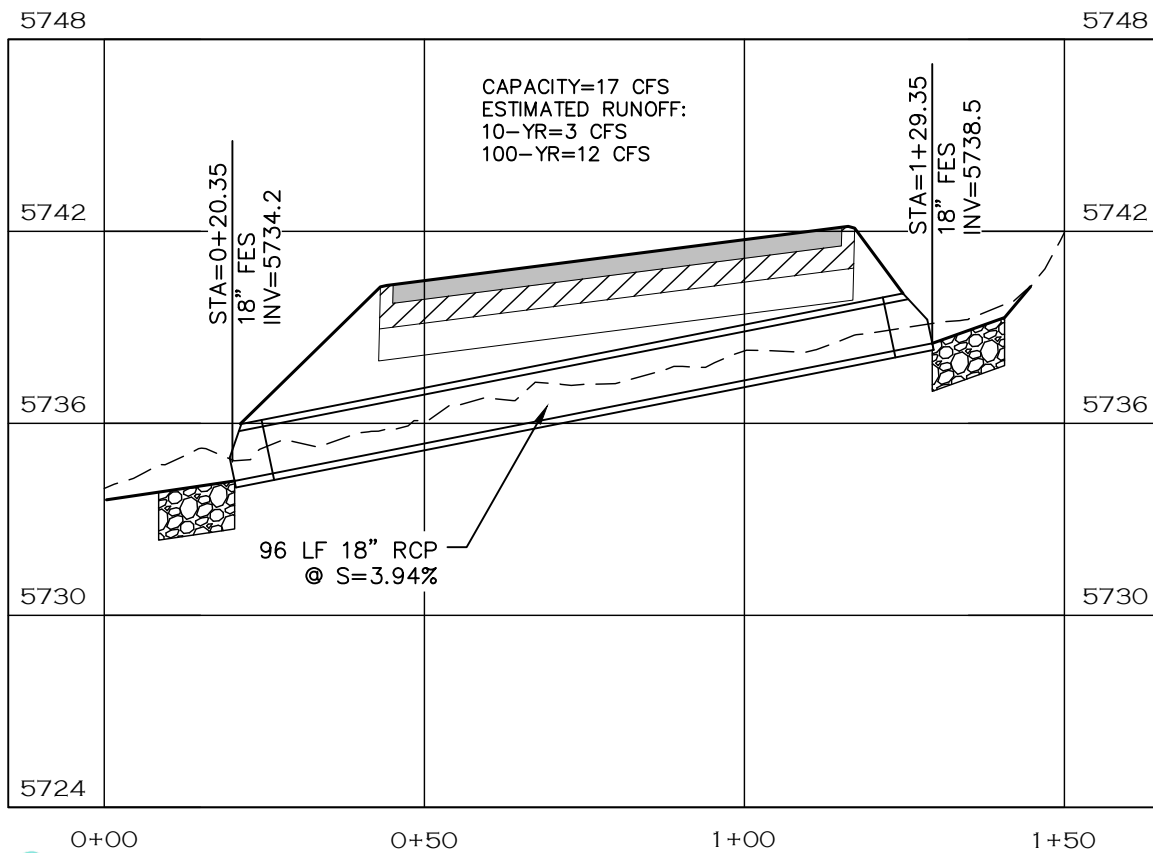
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CREATION DATE:	07/13/20	(R-1)			NO REVISIONS:		LARIMER COUNTY ROAD 72
MODIFICATION DATE:	01/07/21	(R-2)			REVISED:		
FILE LOCATION:	INTEREST PROJECTS\2019 PROJECTS\1421-094-00 (LARIMER COUNTY ROAD 72)\DWG\ENGINEERING PLANS	(R-3)			VOID:		
FILE NAME:	1421-094-00 STORMWATER MANAGEMENT PLAN.DWG	(R-4)					SHEET NO. 92



STORM LINE 1



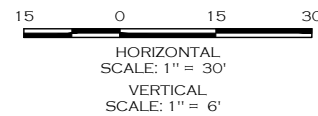
STORM LINE 2



STORM LINE 1 PROFILE

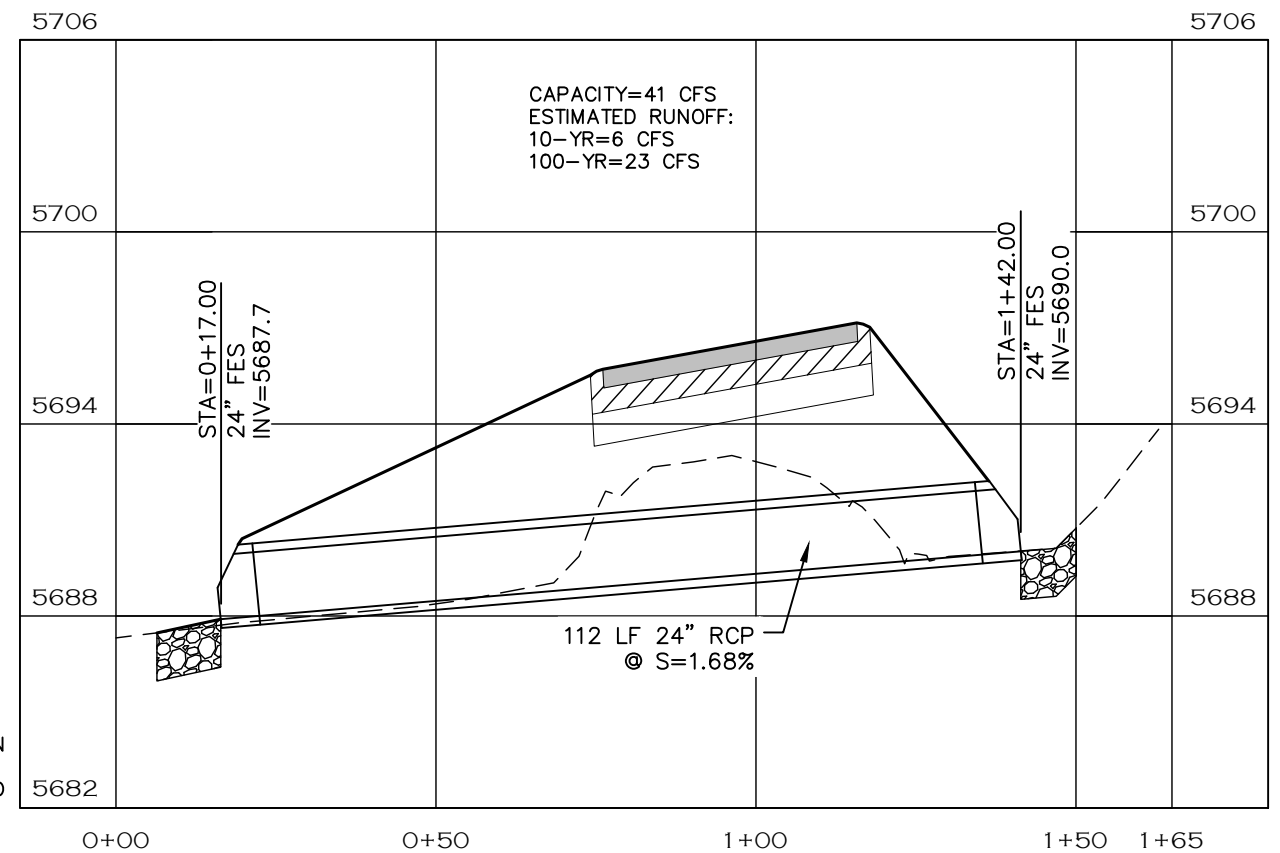
FOR INFORMATION ONLY

1. STORM CAPACITY IS FOR ENGINEERING DOCUMENTATION ONLY. ESTIMATED RUNOFF WAS CALCULATED USING STREAMSTATS.USGS.GOV
2. IT IS ANTICIPATED THAT WHILE TRAFFIC IS ON THE TEMP. 24' ROAD, STORM PIPE CONSTRUCTION WILL OCCUR FROM ROADWAY STATION RIGHT TO LEFT. A 1:1 TRENCH SLOPE WAS ASSUMED TO BE USED FROM THE EDGE OF THE 24' ROAD TO THE BOTTOM OF TRENCH. WHEN TRAFFIC IS FLIPPED OVER TO THE 30' BENCH (ULTIMATE ROAD SUBGRADE), THE REMAINDER OF THE STORM PIPE CAN BE CONSTRUCTED. FOR THE DEEPER STORM LINES (3, 7, 9, 11 AND 13), IT IS ANTICIPATED THAT ONE LANE OF TRAFFIC, 14-16' WIDE, CAN BE MAINTAINED WHILE COMPLETING THE STORM CONSTRUCTION.



NOTE

1. RIPRAP PAD SHALL BE TYPE L RIPRAP D50=9\"/>
- 2. LENGTH OF PIPE DOES NOT INCLUDE FLARED END SECTION.



STORM LINE 2 PROFILE

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COMPUTER INFORMATION	
CREATION DATE:	07/13/20
MODIFICATION DATE:	02/01/21
FILE LOCATION:	INTEREST PROJECTS\2019 PROJECTS\1421-094-00 (LARIMER COUNTY ROAD 72)\DWG\ENGINEERING PLANS
FILE NAME:	1421-094-00 STRM P&P.DWG

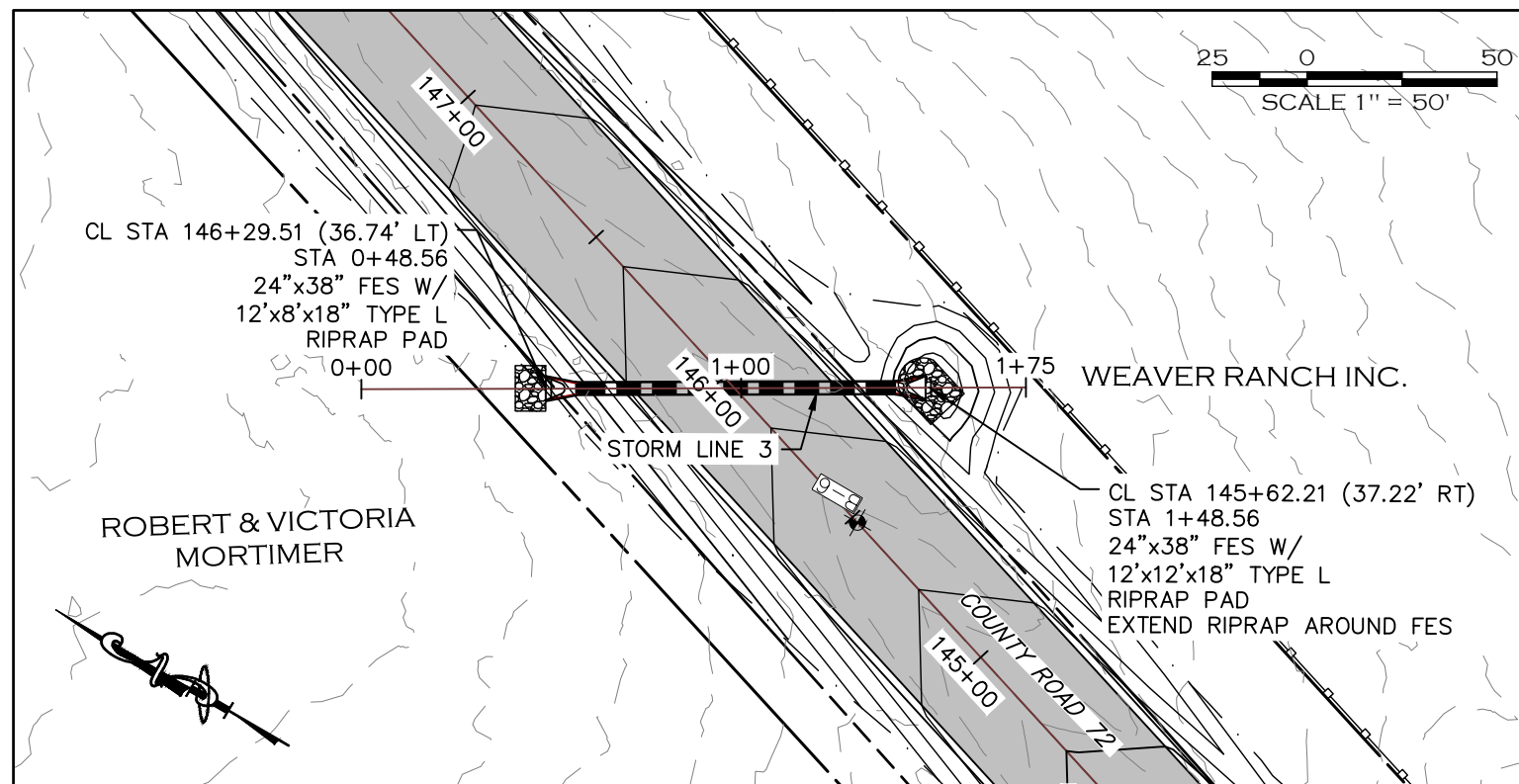
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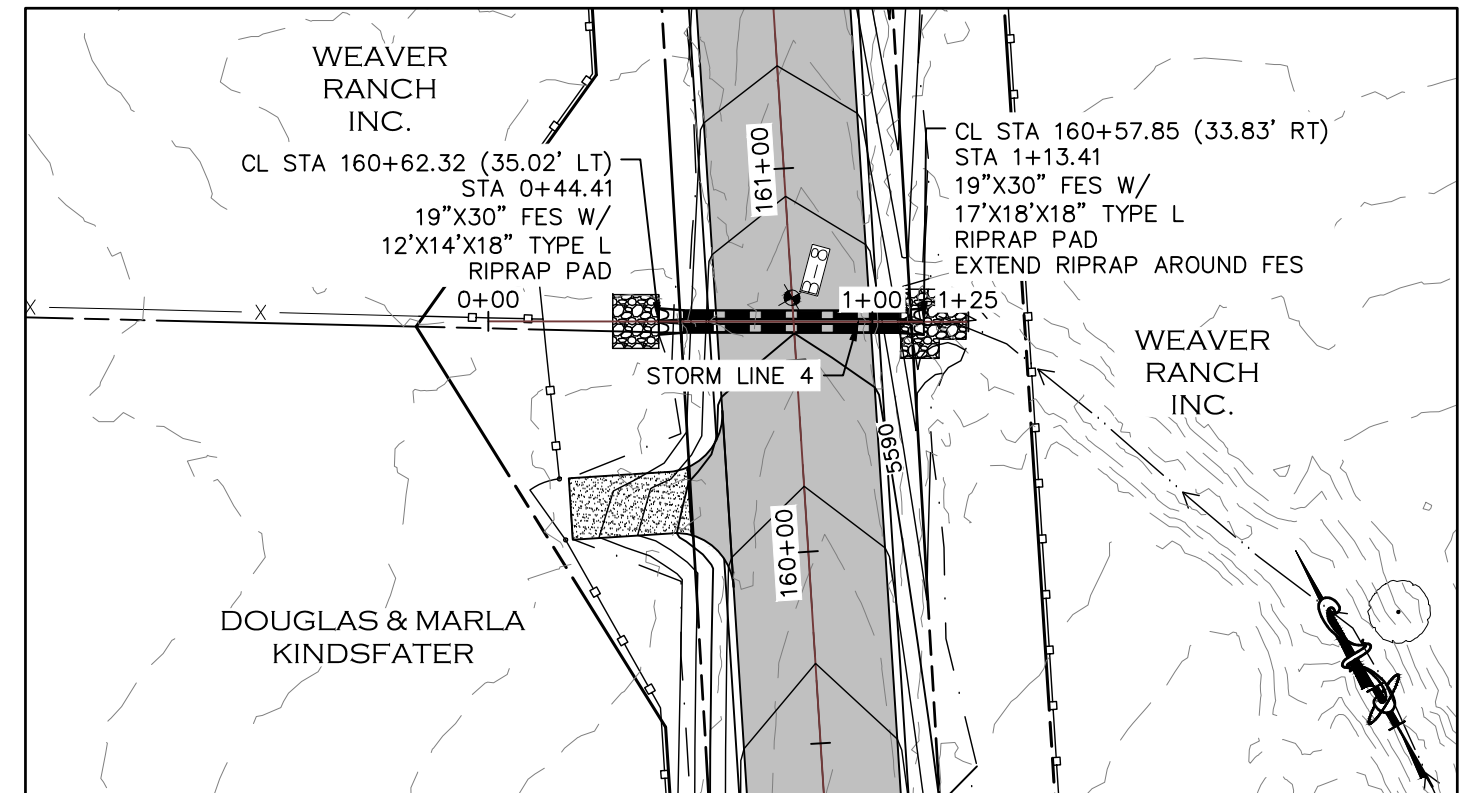
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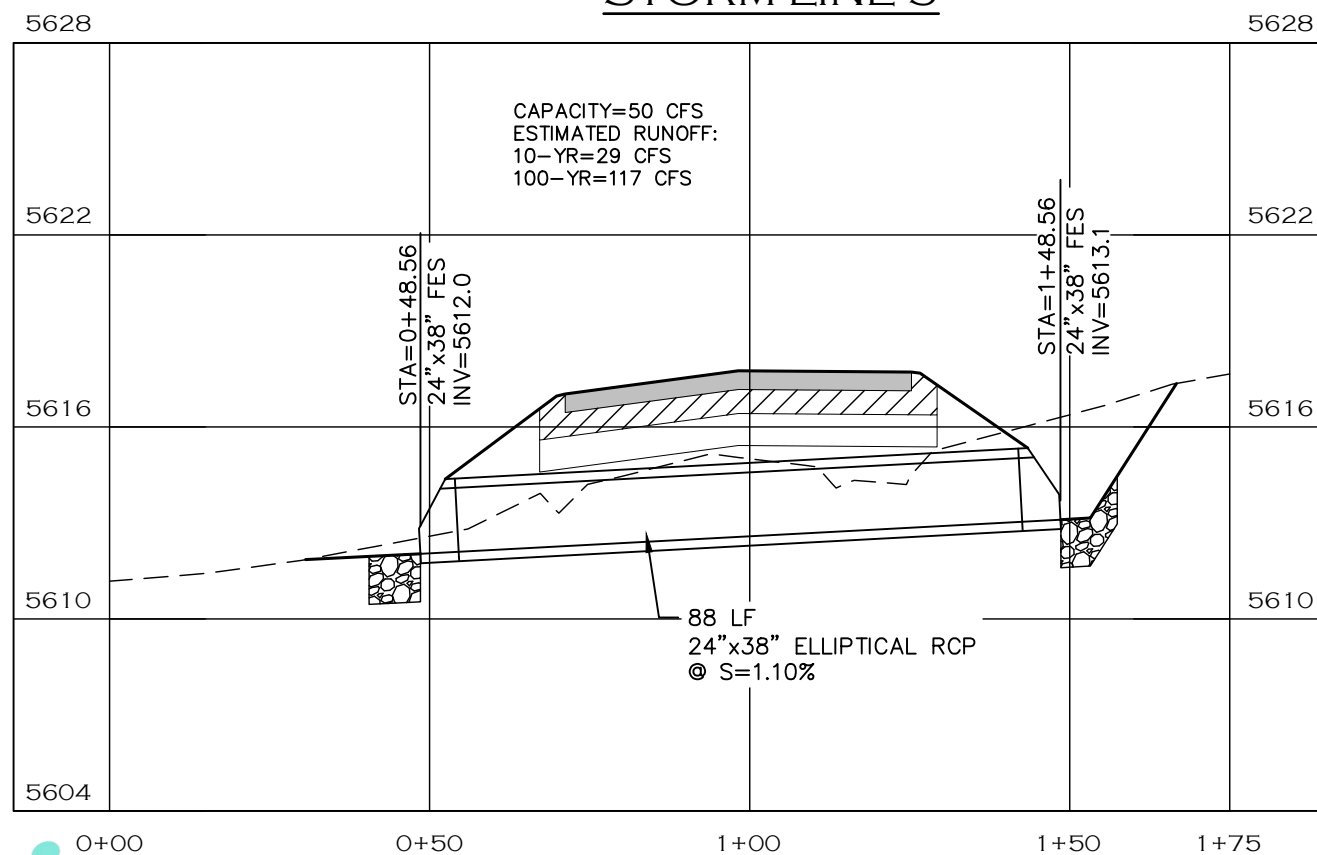
STORM PLAN & PROFILES	
PROJECT NO. 335	
LARIMER COUNTY ROAD 72	
SHEET NO.	93



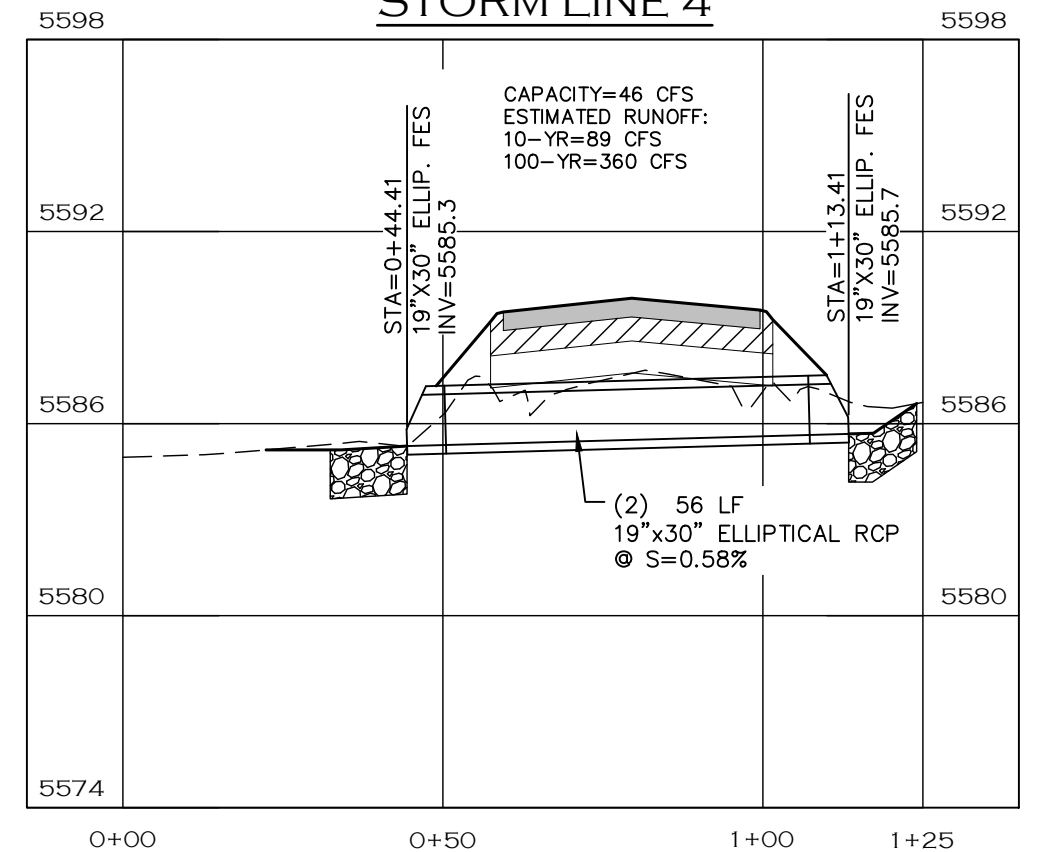
STORM LINE 3



STORM LINE 4



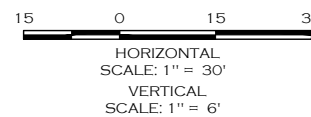
STORM LINE 3 PROFILE



STORM LINE 4 PROFILE

NOTE

1. RIPRAP PAD SHALL BE TYPE L RIPRAP D50=9" PER CDOT SECTION 506 PLACED ON APPROVED GEOTEXTILE FABRIC.
2. LENGTH OF PIPE DOES NOT INCLUDE FLARED END SECTION.



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NOTE: SHALLOW COVER, TOP OF PIPE LOCATED IN 12-INCH CEMENT TREATED SUBGRADE ZONE. PROTECT PIPE WHEN STABILIZING SUBGRADE.



COMPUTER INFORMATION	
CREATION DATE:	07/13/20
MODIFICATION DATE:	02/01/21
FILE LOCATION:	INTEREST PROJECTS\2019 PROJECTS\1421-094-00 (LARIMER COUNTY ROAD 72)\DWG\DESIGNING PLANS
FILE NAME:	1421-094-00 STRM P&P.DWG

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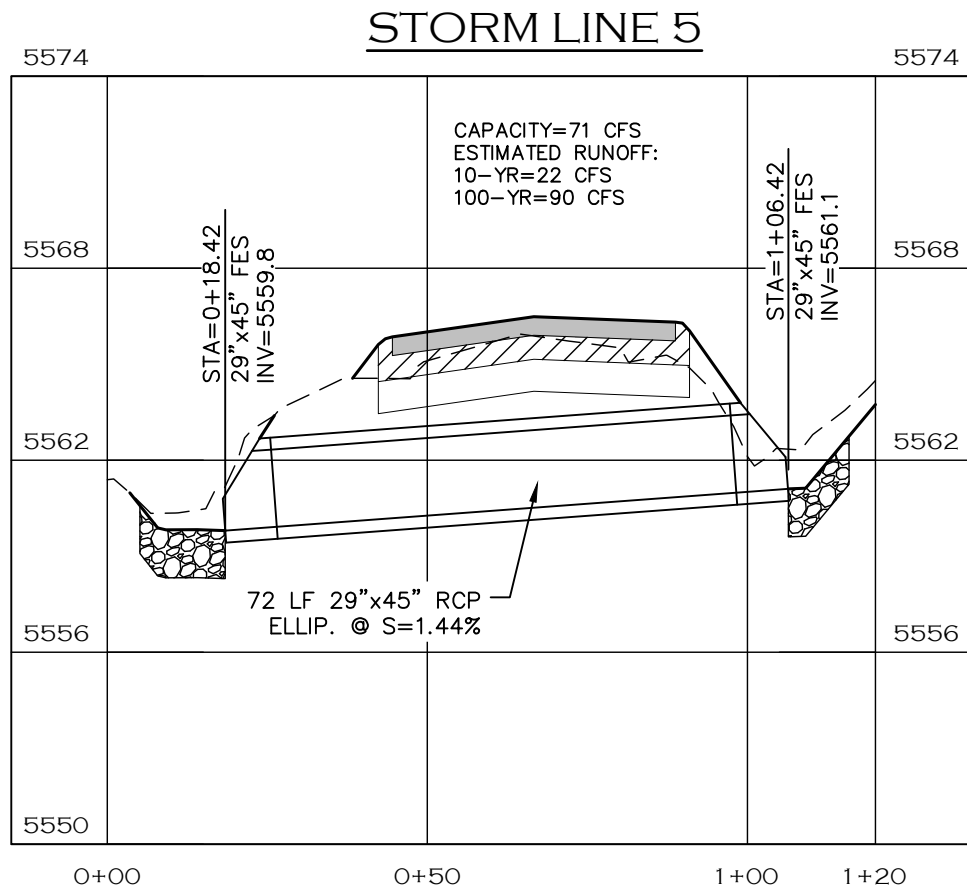
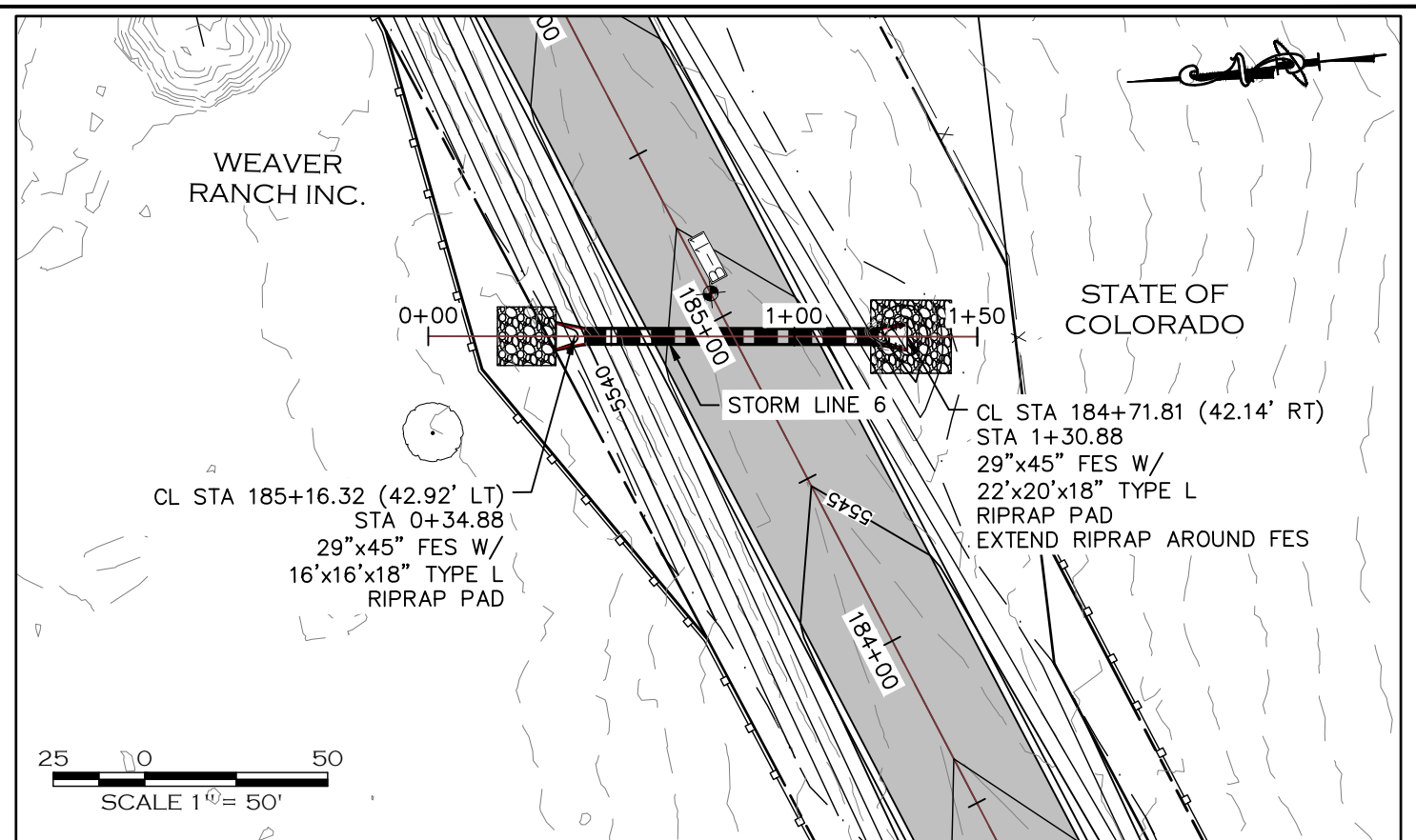
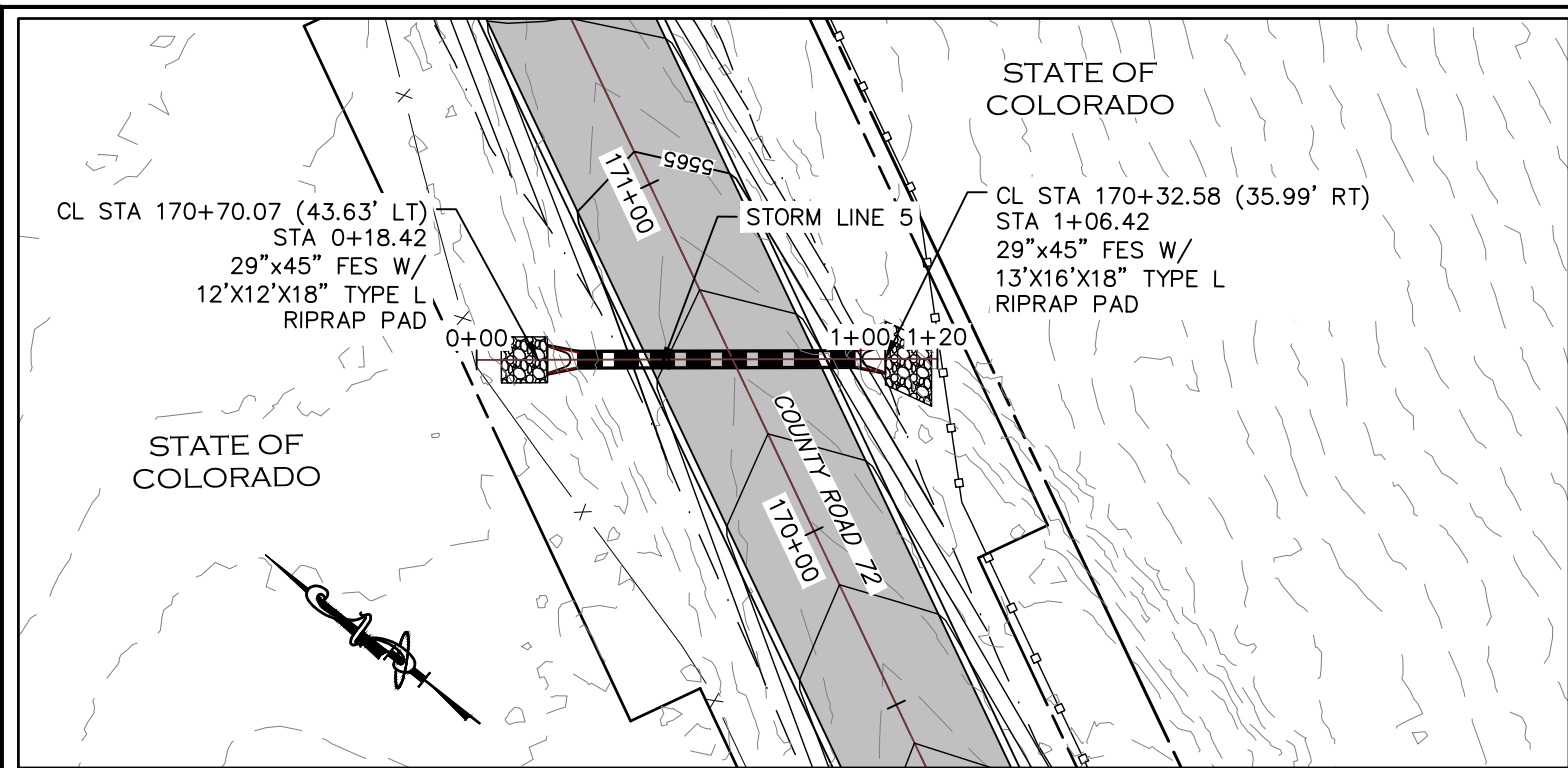


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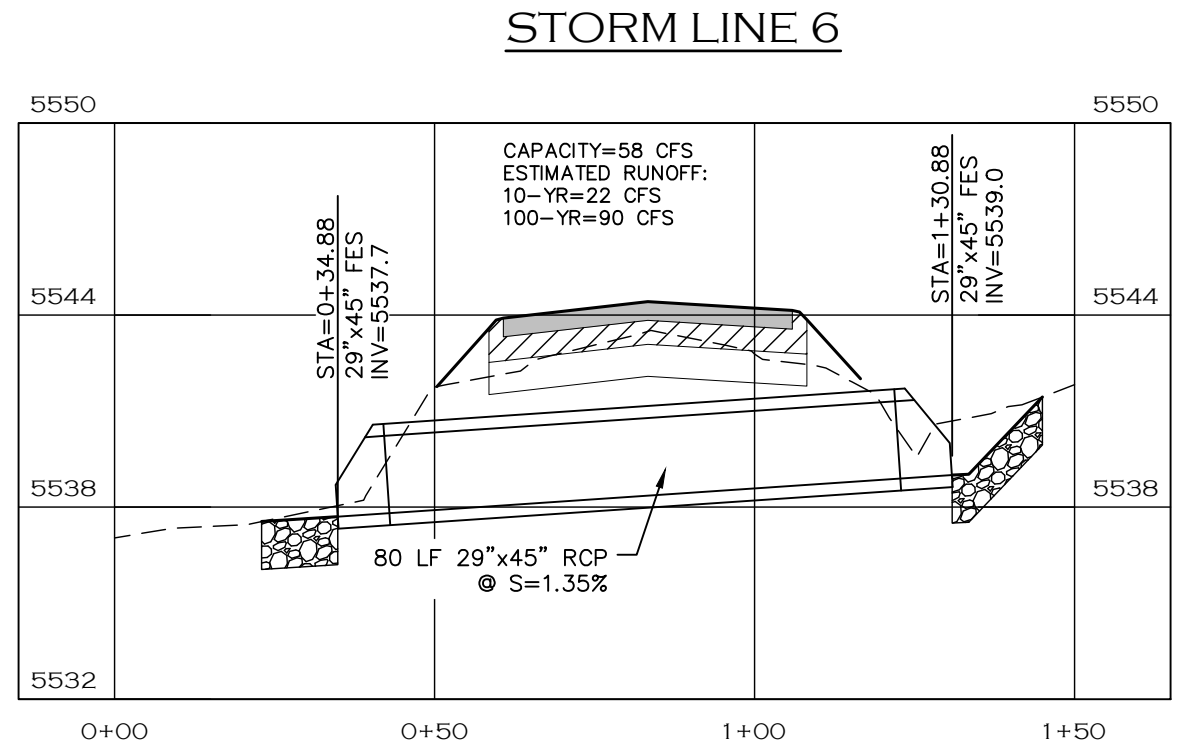
STORM PLAN & PROFILES

PROJECT NO. 335
LARIMER COUNTY ROAD 72
SHEET NO. 94



NOTE

- RIPRAP PAD SHALL BE TYPE L RIPRAP D50=9" PER CDOT SECTION 506 PLACED ON APPROVED GEOTEXTILE FABRIC.
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COMPUTER INFORMATION	
CREATION DATE:	07/13/20
MODIFICATION DATE:	02/01/21
FILE LOCATION:	INTEREST PROJECTS\2019 PROJECTS\1421-094-00 LARIMER COUNTY ROAD 72\DRAWINGS\ENGINEERING PLANS
FILE NAME:	1421-094-00 STRM P&P.DWG

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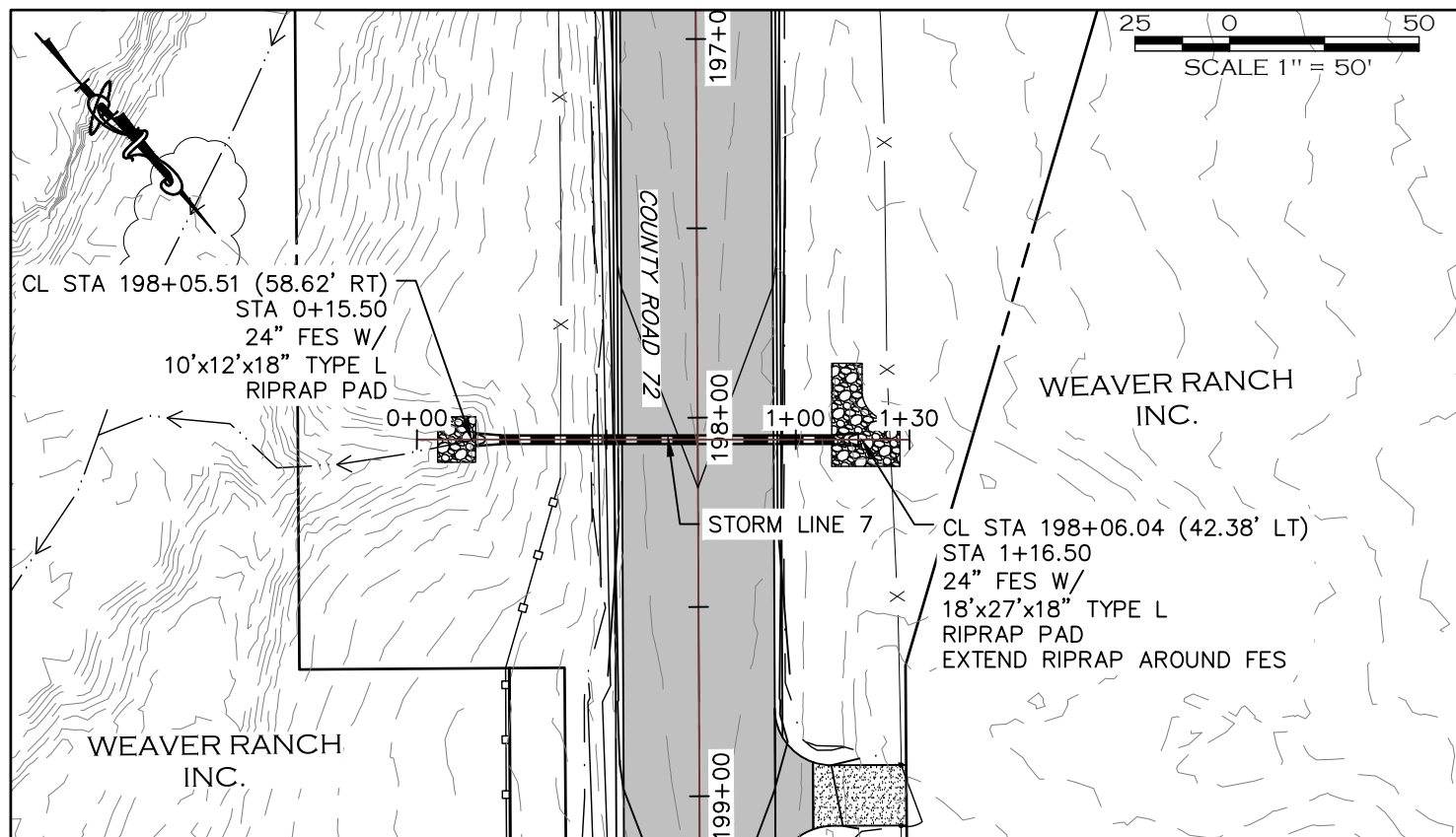


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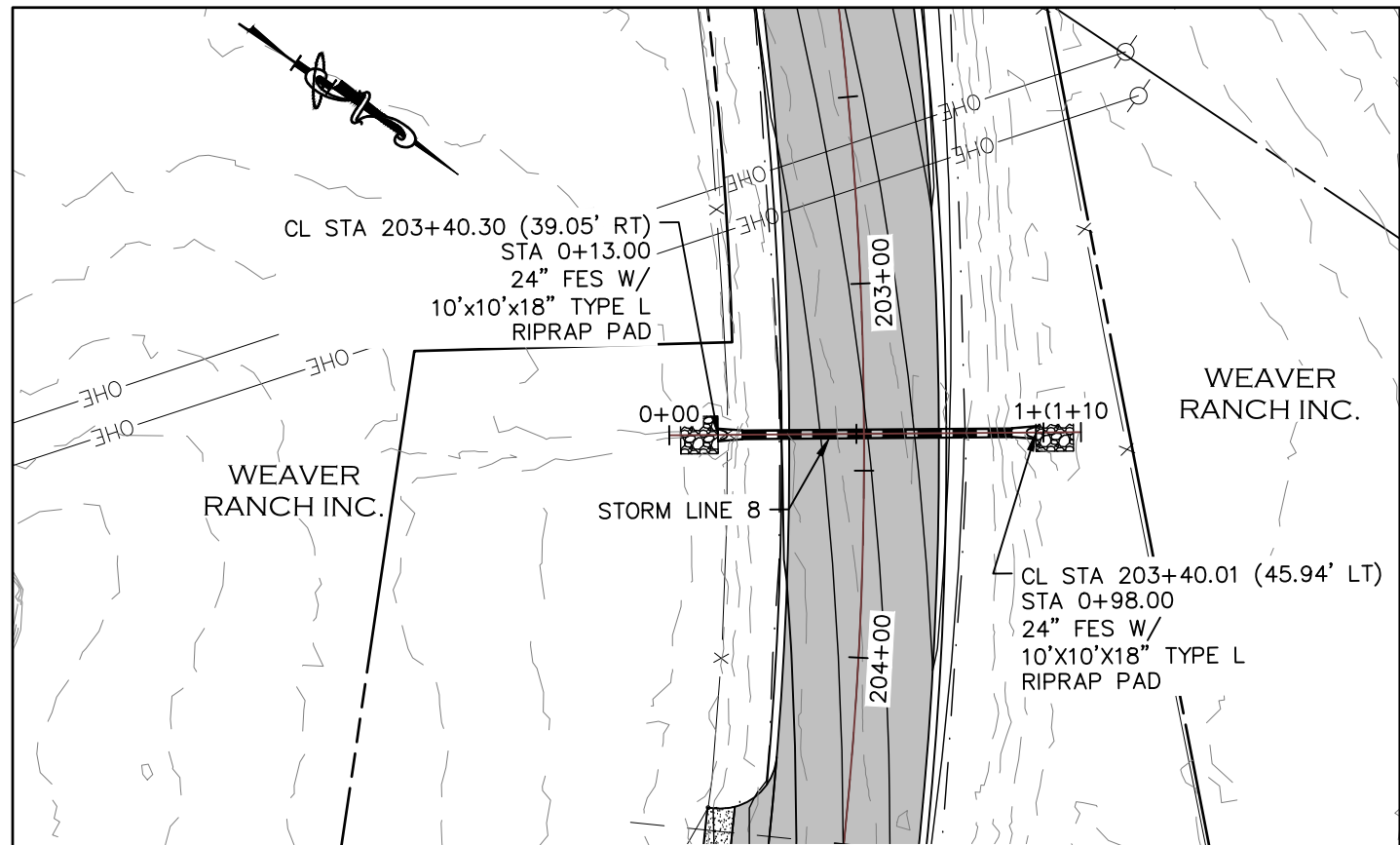
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STORM PLAN & PROFILES

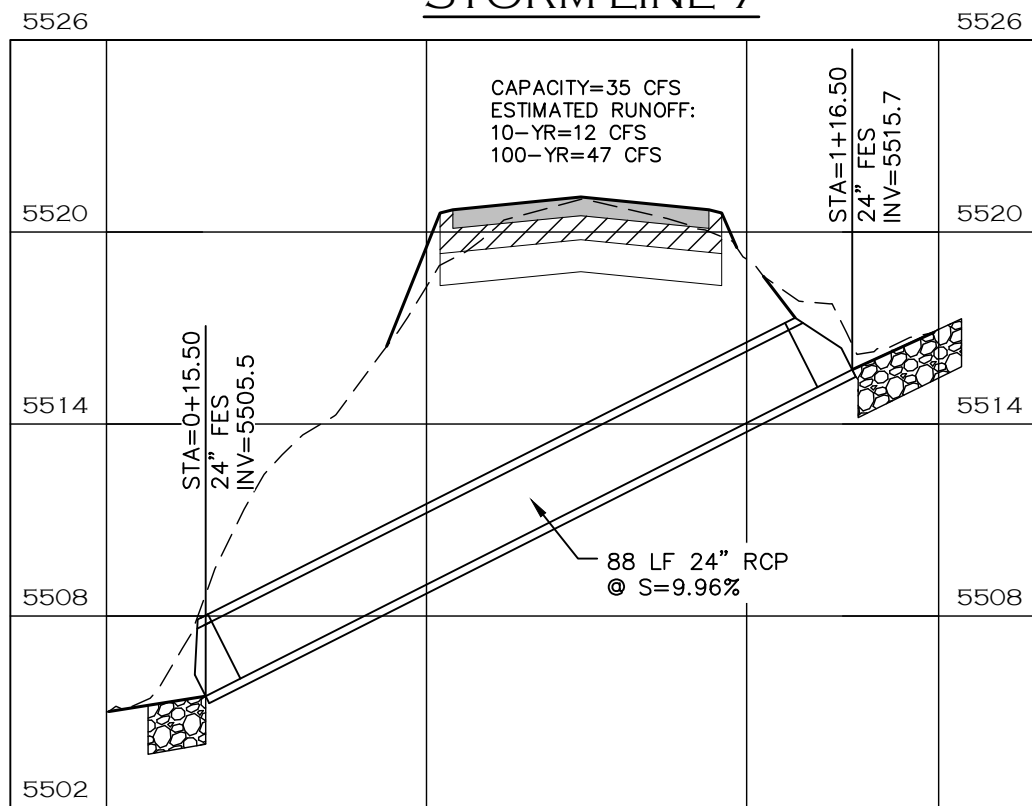
PROJECT NO. 335
LARIMER COUNTY ROAD 72
SHEET NO. 95



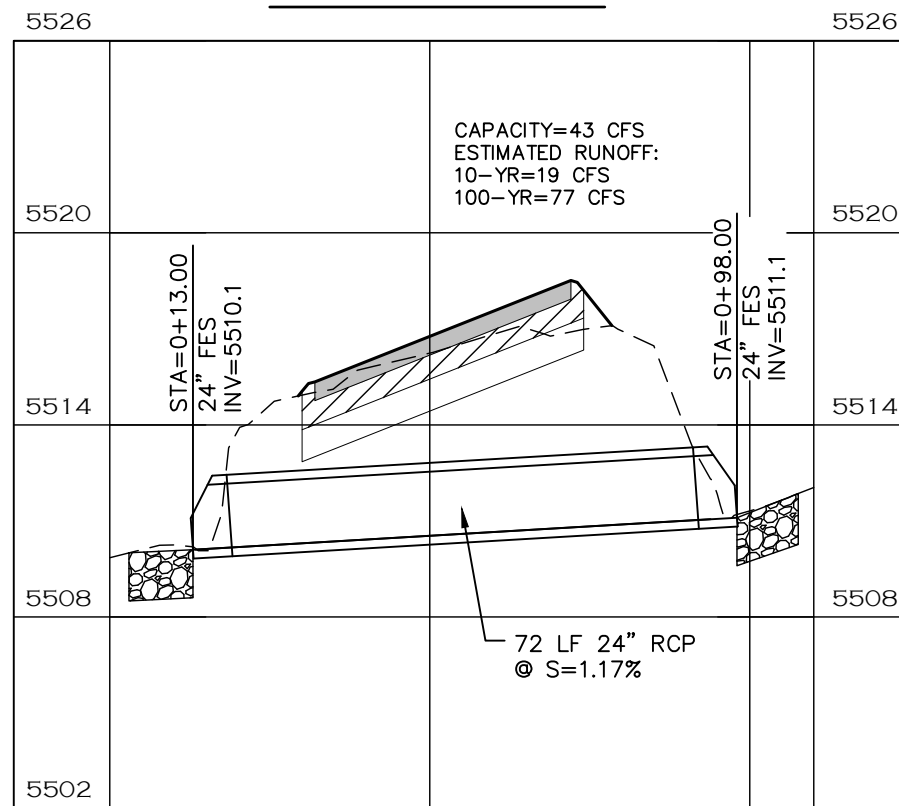
STORM LINE 7



STORM LINE 8



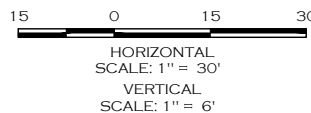
STORM LINE 7 PROFILE



STORM LINE 8 PROFILE

NOTE

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0+00 0+50 1+00 1+30

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FILE NAME:	1421-094-00 STRM P&P.DWG

REVISIONS	
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(R-4)	
(R-5)	

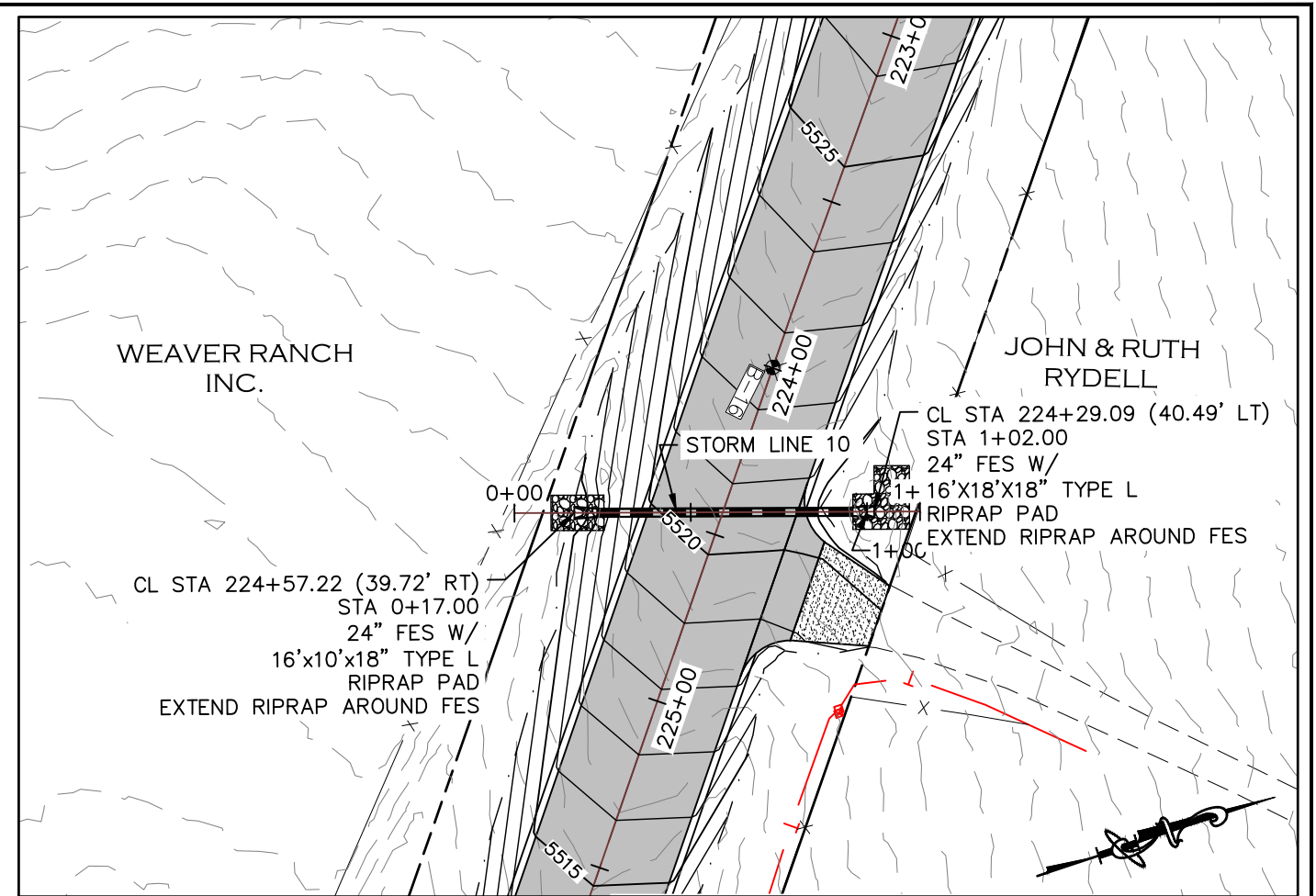
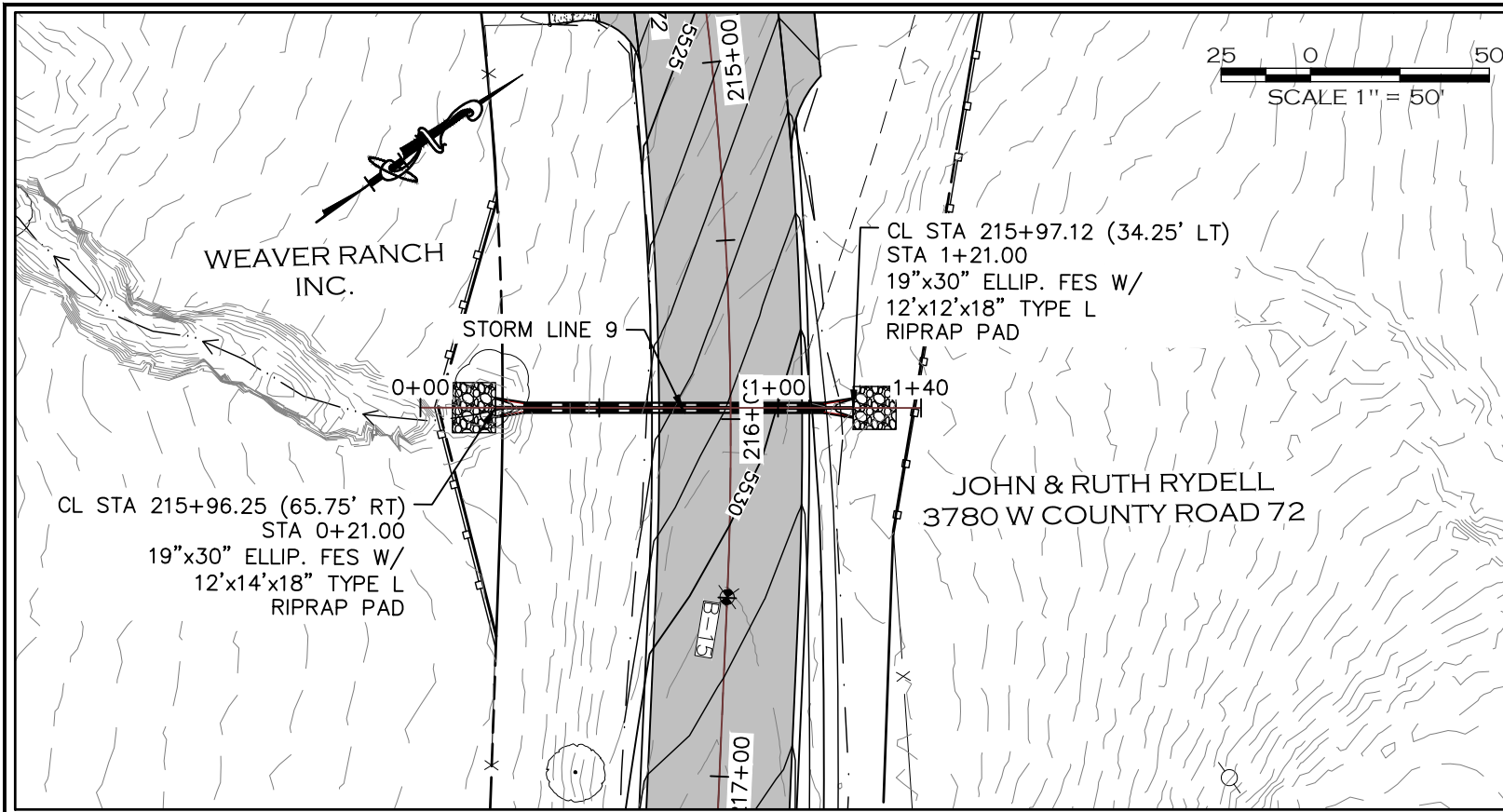


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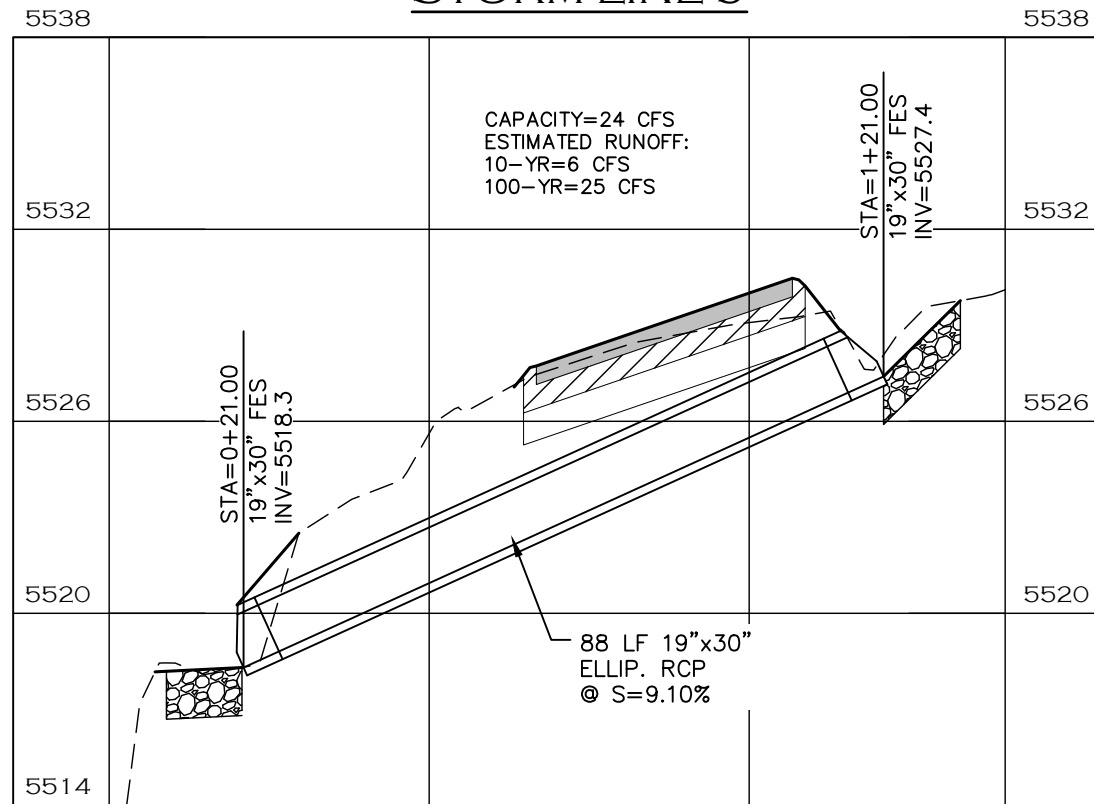
STORM PLAN & PROFILES

PROJECT NO. 335
LARIMER COUNTY ROAD 72
SHEET NO. 96



STORM LINE 9

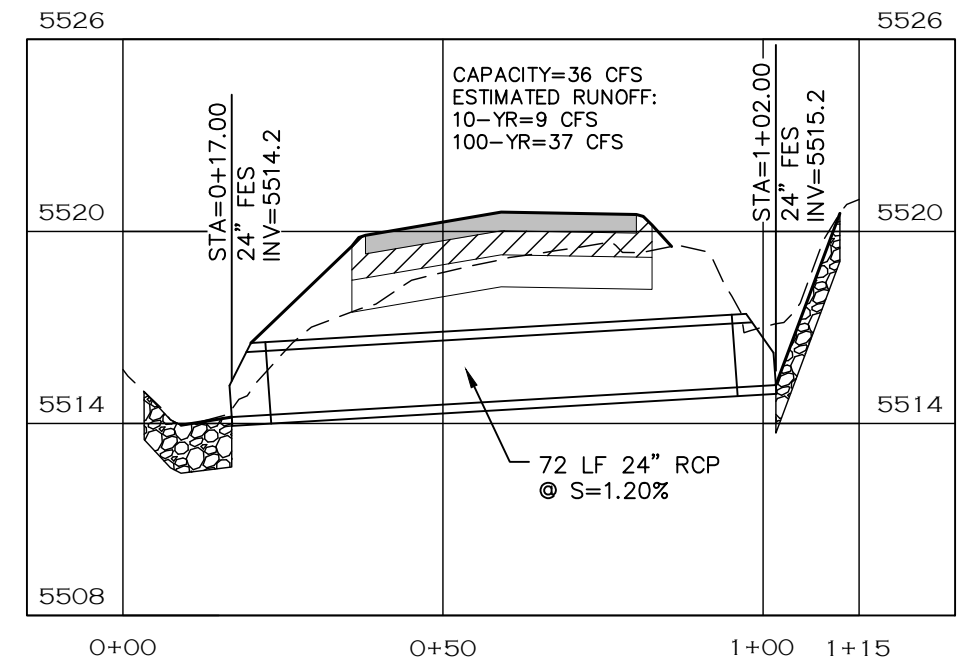
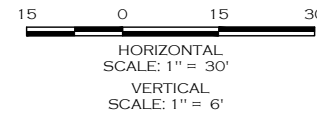
STORM LINE 10



STORM LINE 9 PROFILE

NOTE

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STORM LINE 10 PROFILE



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CREATION DATE:	07/13/20
MODIFICATION DATE:	02/01/21
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FILE NAME:	1421-094-00 STRM P&P.DWG

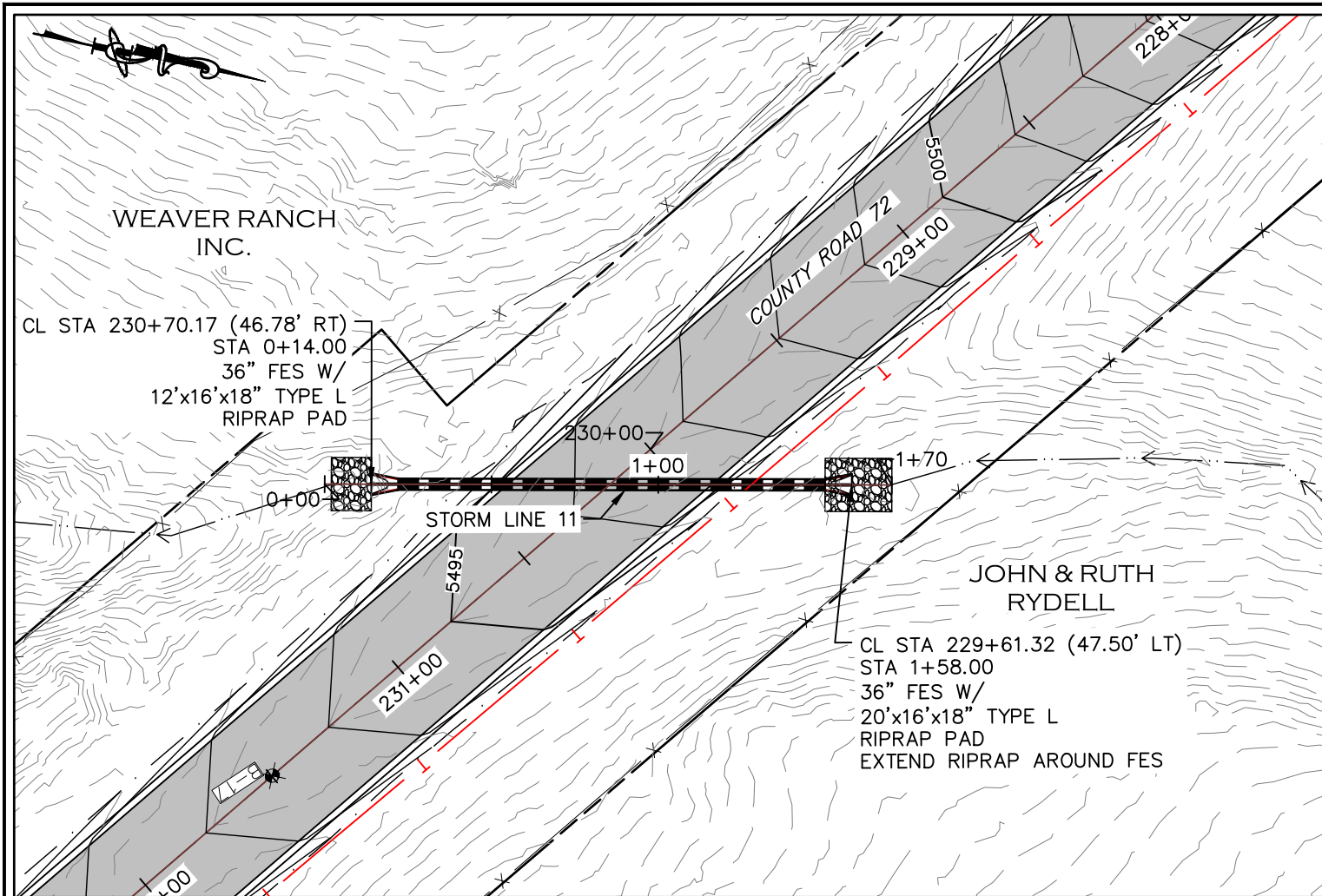
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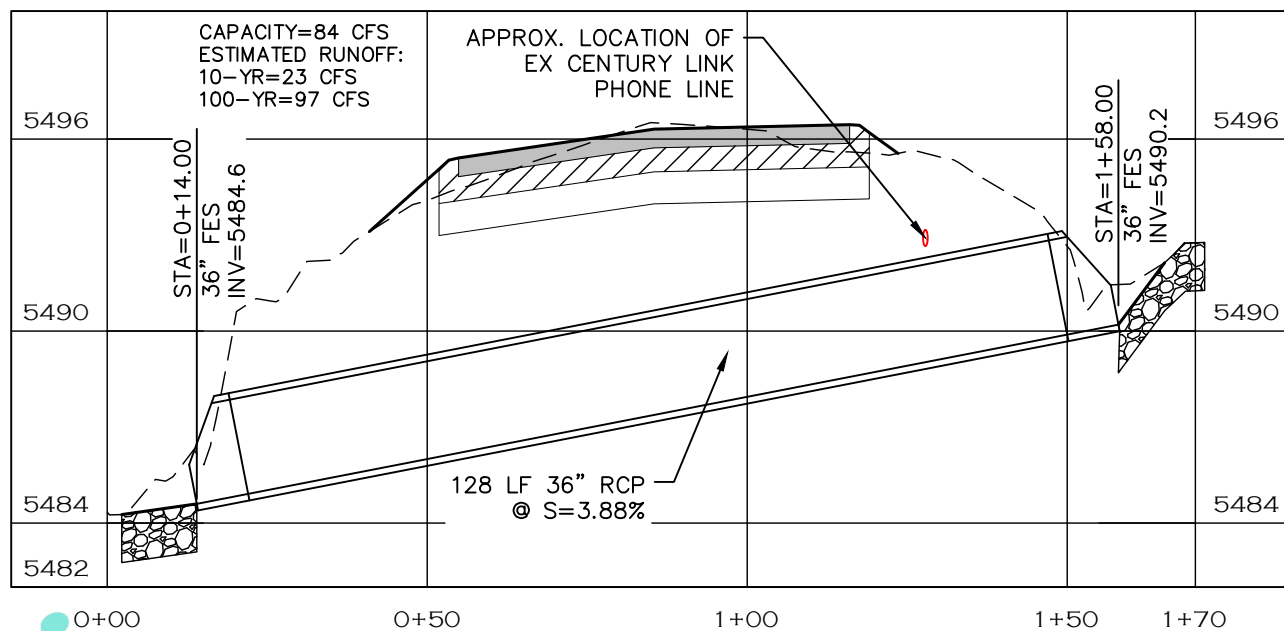
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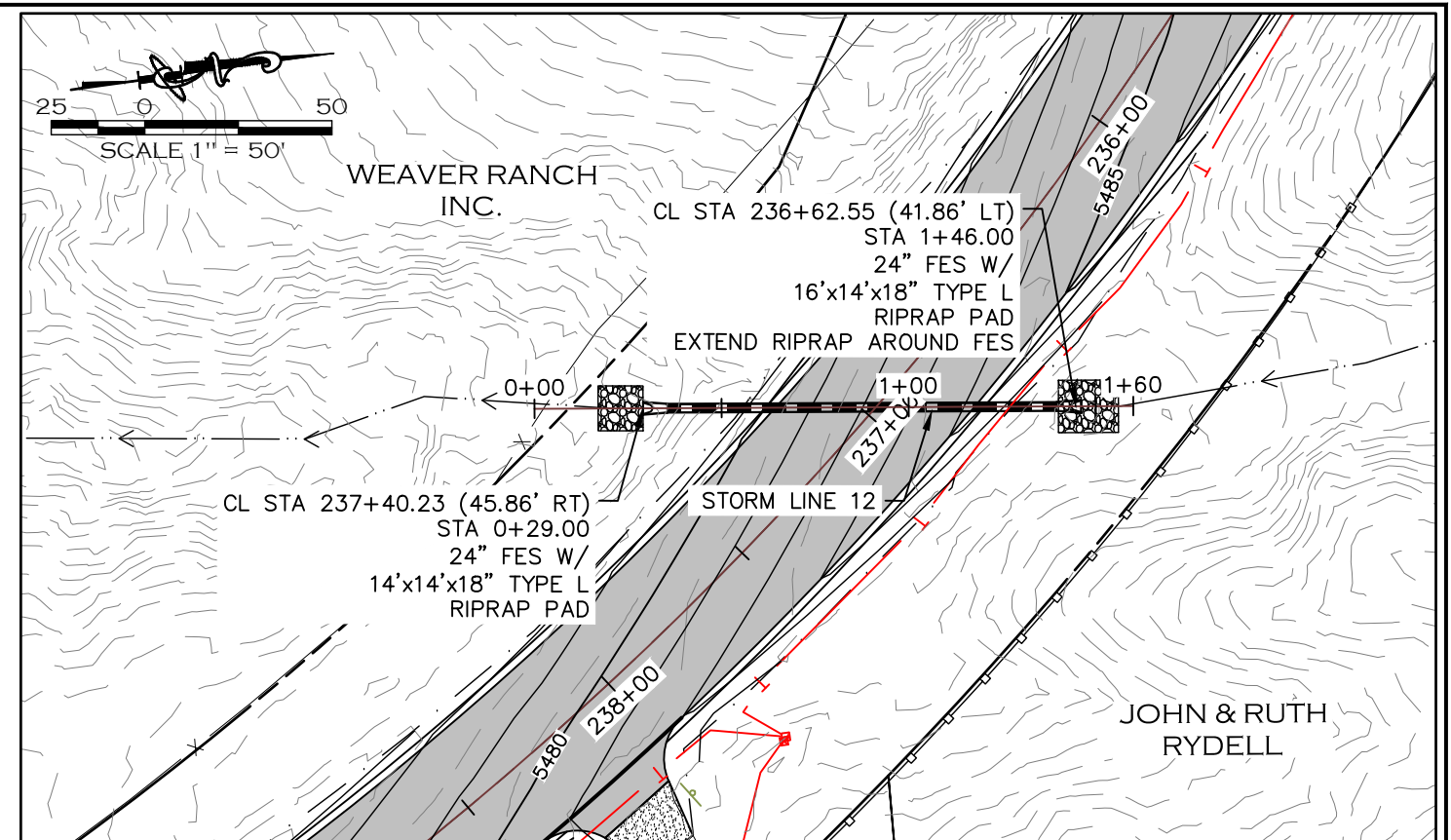
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PROJECT NO. 335	
LARIMER COUNTY ROAD 72	
SHEET NO.	97



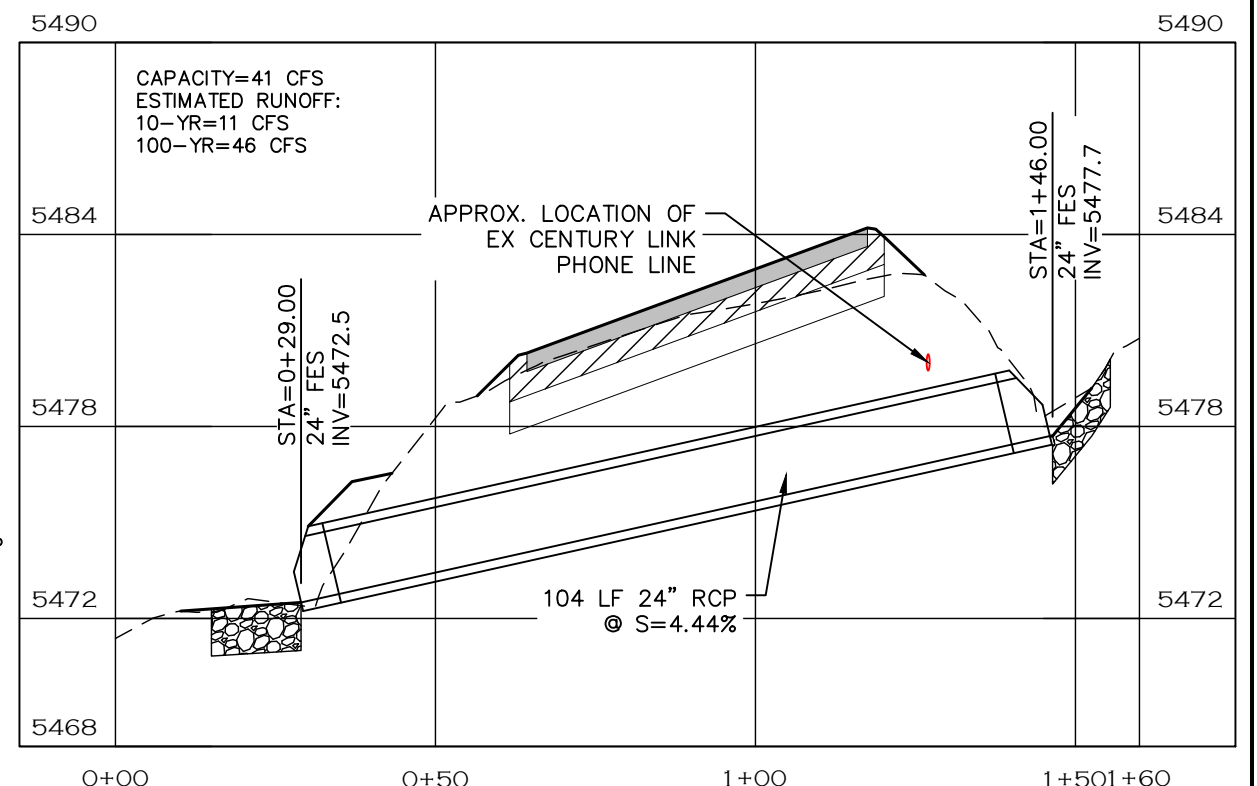
STORM LINE 11



STORM LINE 11 PROFILE



STORM LINE 12



STORM LINE 12 PROFILE

NOTE

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COMPUTER INFORMATION	
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MODIFICATION DATE:	02/01/21
FILE LOCATION:	INTEREST PROJECTS\2019 PROJECTS\1421-094-00 LARIMER COUNTY ROAD 72\DWG\ENGINEERING PLANS
FILE NAME:	1421-094-00 STRM P&P.DWG

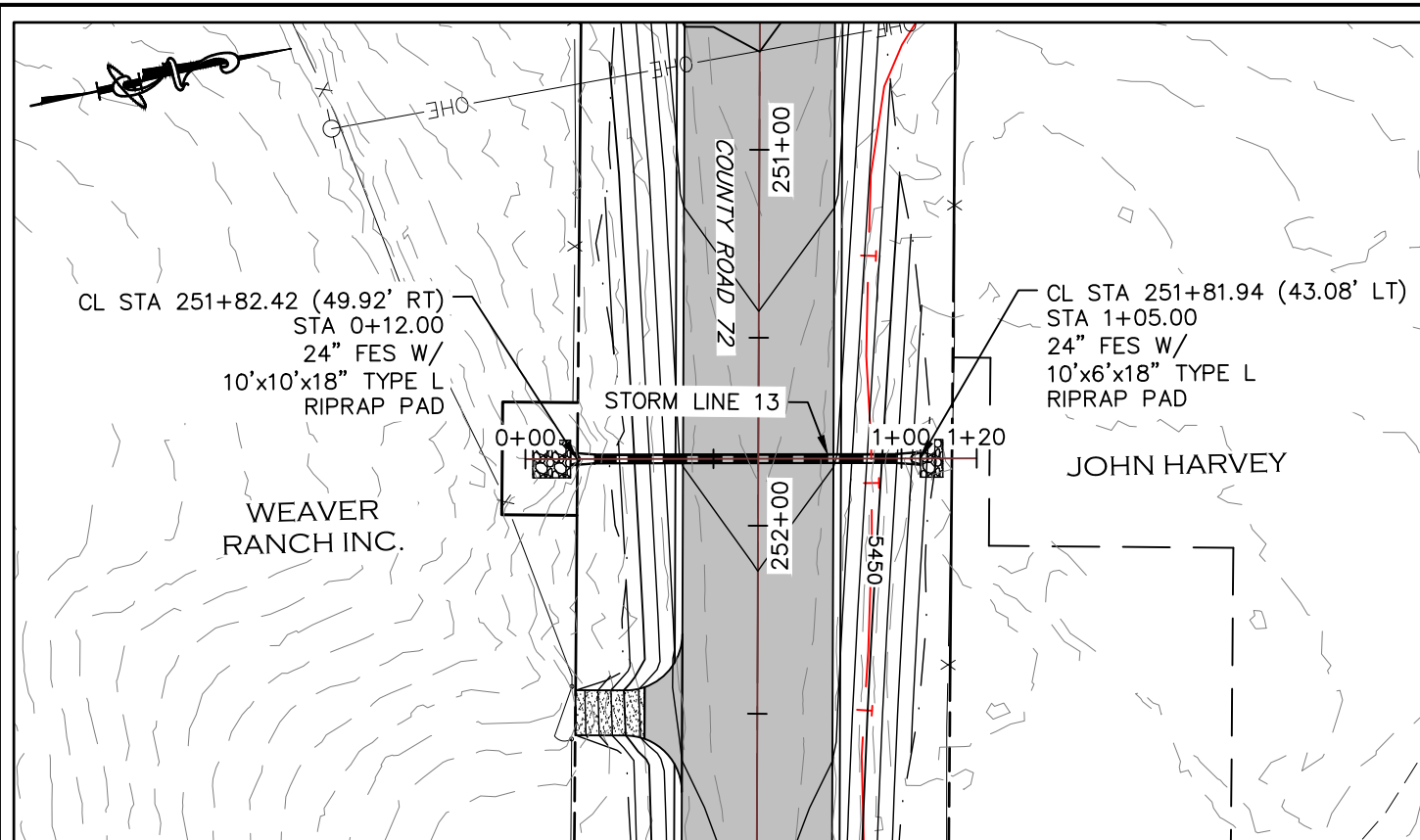
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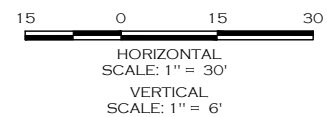
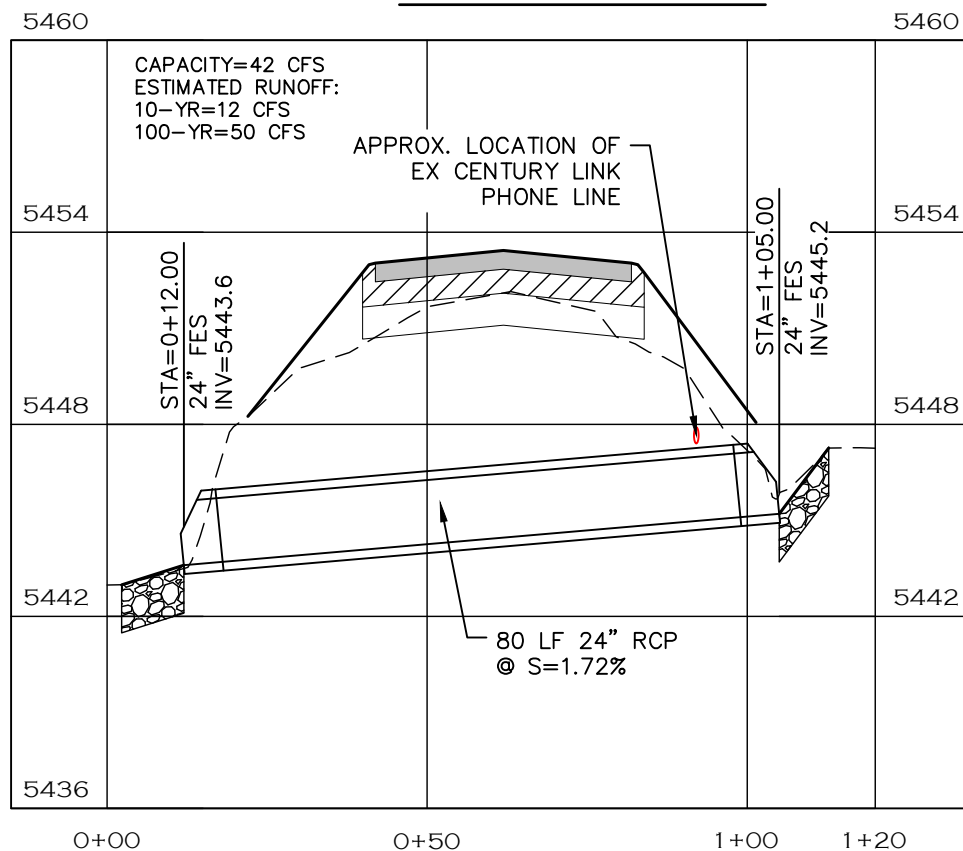
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STORM PLAN & PROFILES	
PROJECT NO. 335	
LARIMER COUNTY ROAD 72	
SHEET NO.	98



STORM LINE 13



NOTE

1. RIPRAP PAD SHALL BE TYPE L RIPRAP D50=9" PER CDOT SECTION 506 PLACED ON APPROVED GEOTEXTILE FABRIC.
2. LENGTH OF PIPE DOES NOT INCLUDE FLARED END SECTION.

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STORM LINE 13 PROFILE

COMPUTER INFORMATION		REVISIONS	
CREATION DATE:	07/13/20	(R-1)	
MODIFICATION DATE:	02/01/21	(R-2)	
FILE LOCATION:	INTEREST PROJECTS\2019 PROJECTS\1421-094-00 (LARIMER COUNTY ROAD 72)\DRAWINGS\ENGINEERING PLANS	(R-3)	
FILE NAME:	1421-094-00 STRM P&P.DWG	(R-4)	
		(R-5)	



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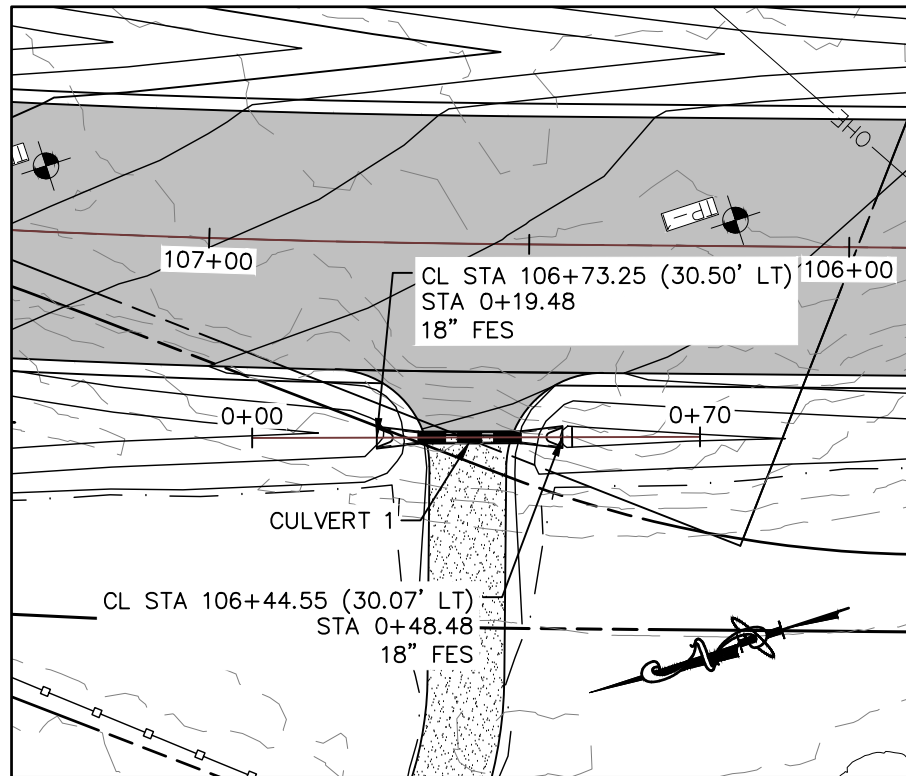
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STORM PLAN & PROFILES

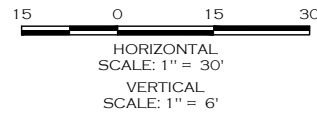
PROJECT NO. 335

LARIMER COUNTY ROAD 72

SHEET NO. 99

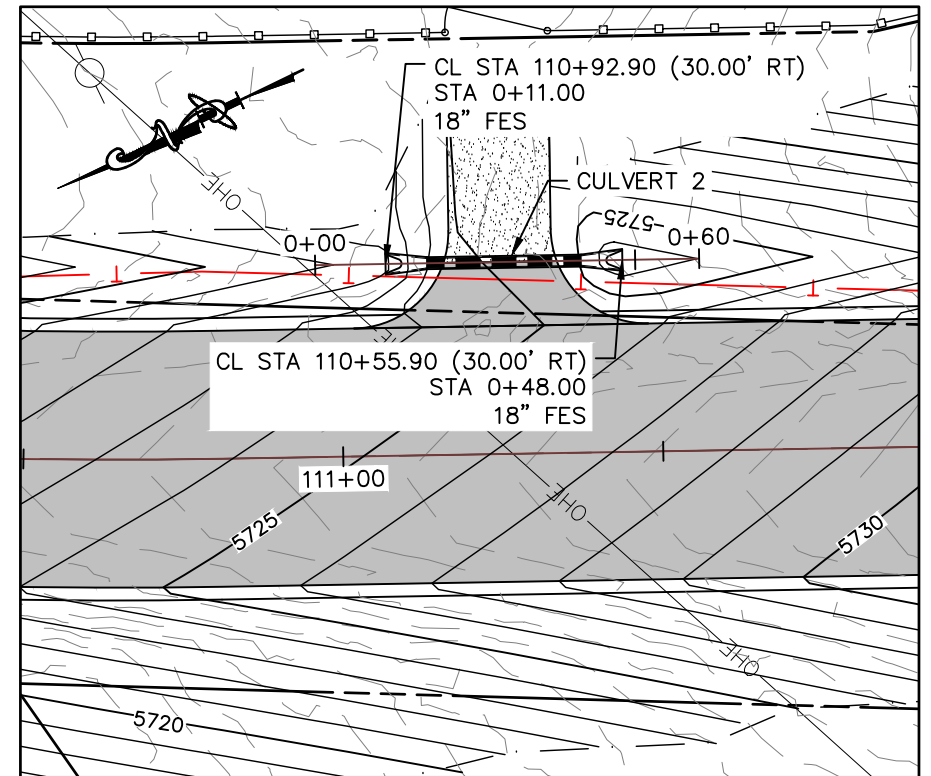


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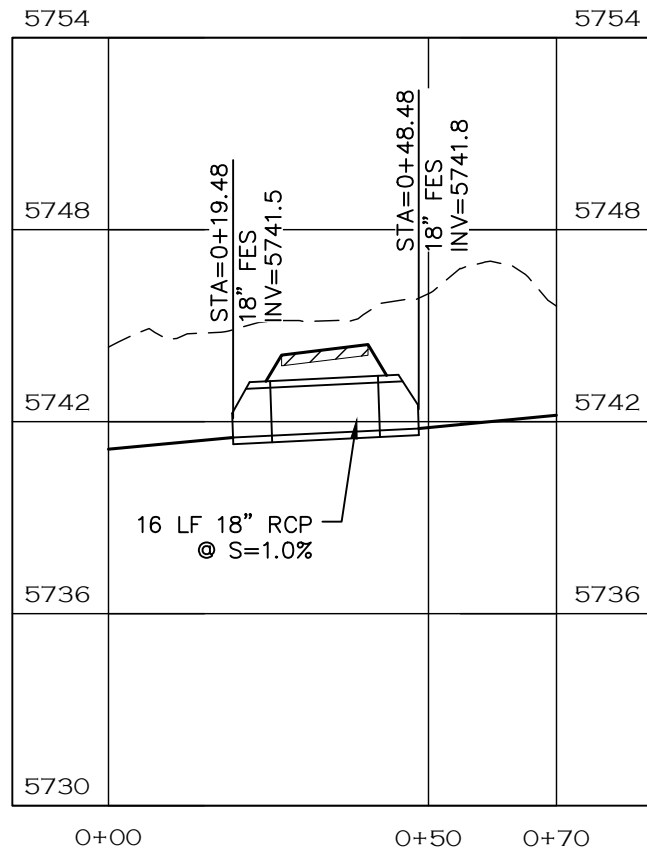


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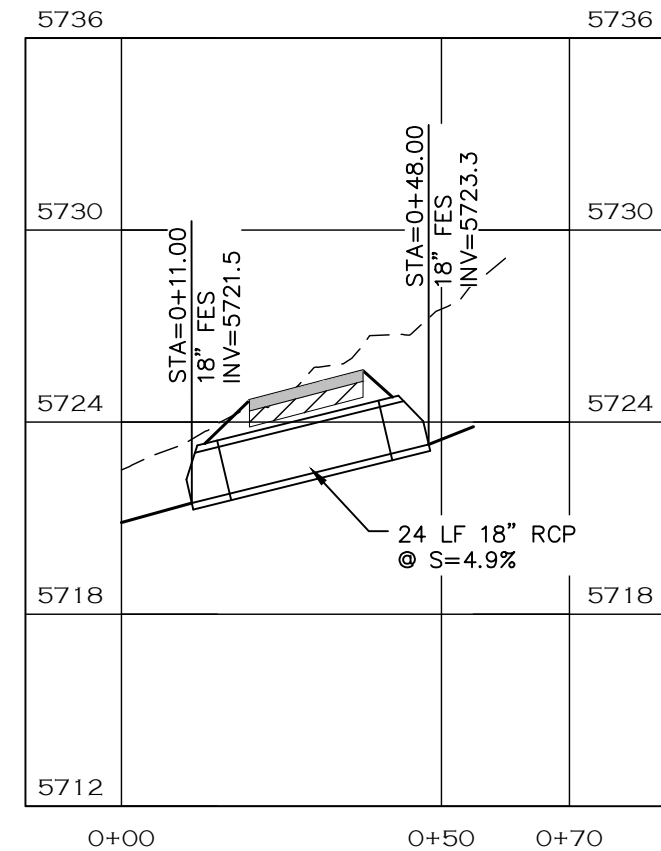
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2. LENGTH OF PIPE DOES NOT INCLUDE FLARED END SECTION.



CULVERT 2



CULVERT 1 PROFILE



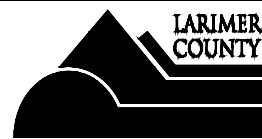
CULVERT 2 PROFILE

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COMPUTER INFORMATION	
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FILE LOCATION:	INTEREST PROJECTS\2019 PROJECTS\1421-094-00 (LARIMER COUNTY ROAD 72)\DRAWINGS\ENGINEERING PLANS
FILE NAME:	1421-094-00 STRM P&P.DWG

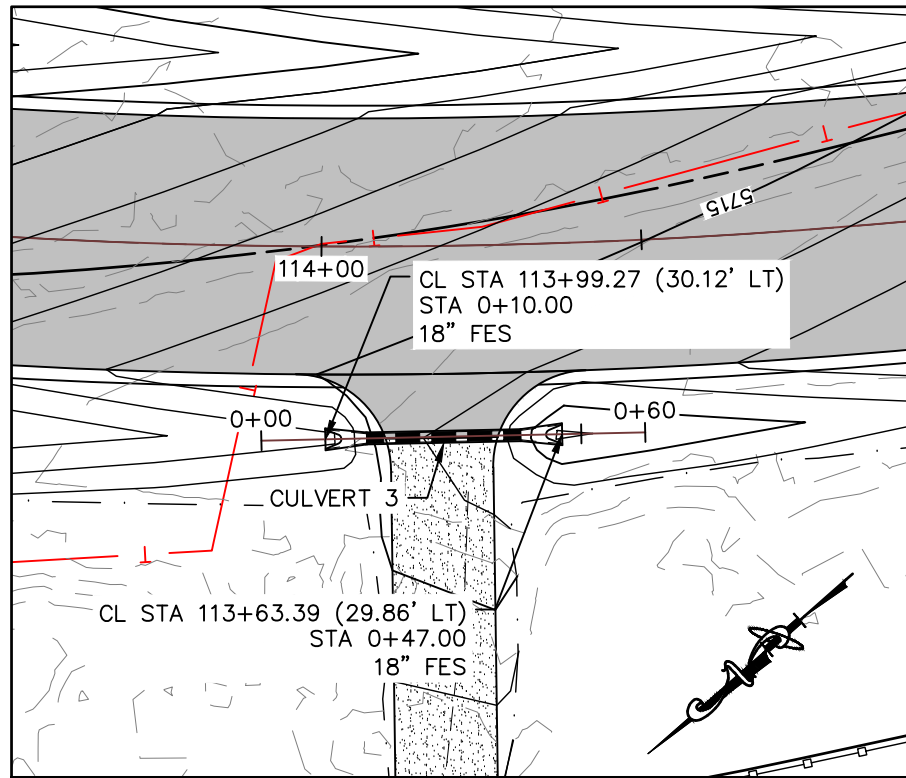
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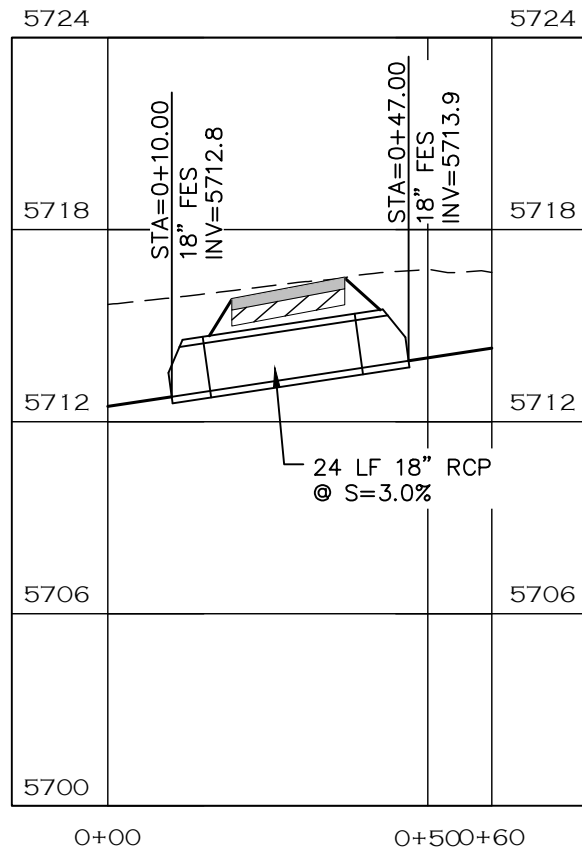
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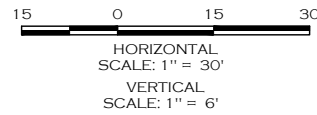
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PROJECT NO. 335	
LARIMER COUNTY ROAD 72	
SHEET NO.	100



CULVERT 3

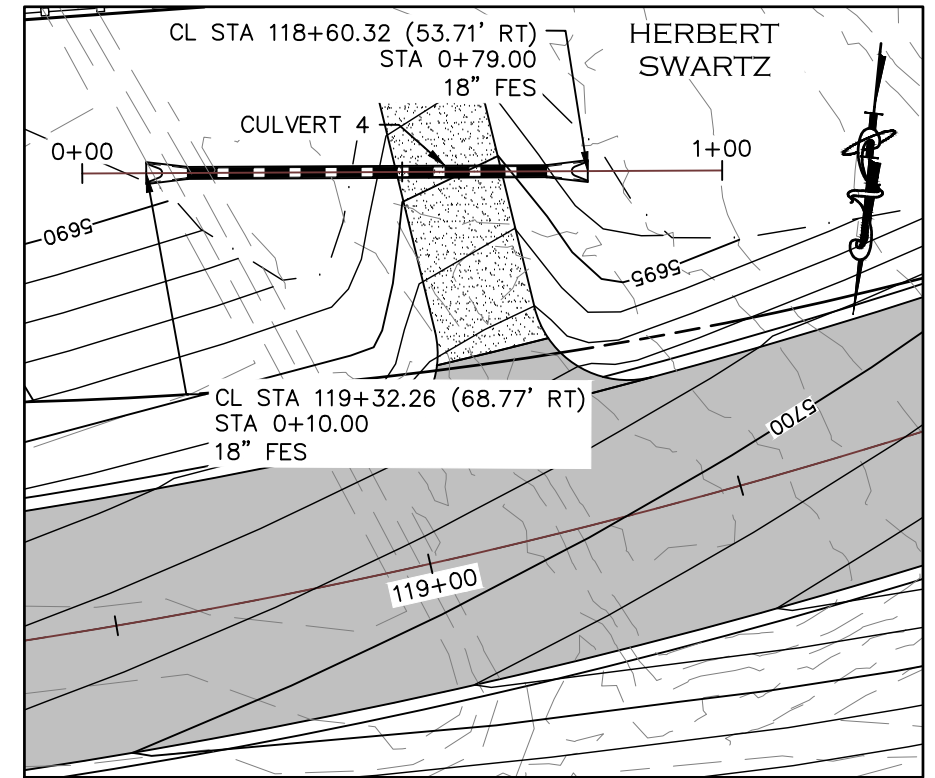


CULVERT 3 PROFILE

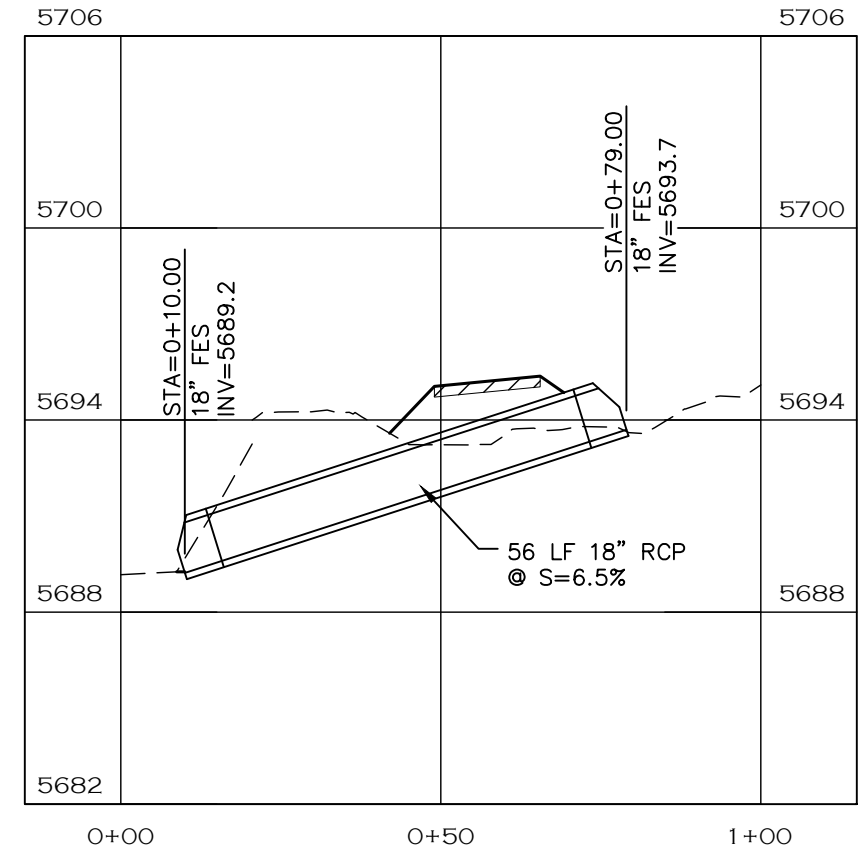


NOTE

1. RIPRAP PAD SHALL BE TYPE L RIPRAP D50=9" PER CDOT SECTION 506 PLACED ON APPROVED GEOTEXTILE FABRIC.
2. LENGTH OF PIPE DOES NOT INCLUDE FLARED END SECTION.



CULVERT 4



CULVERT 4 PROFILE

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STORM PLAN & PROFILES

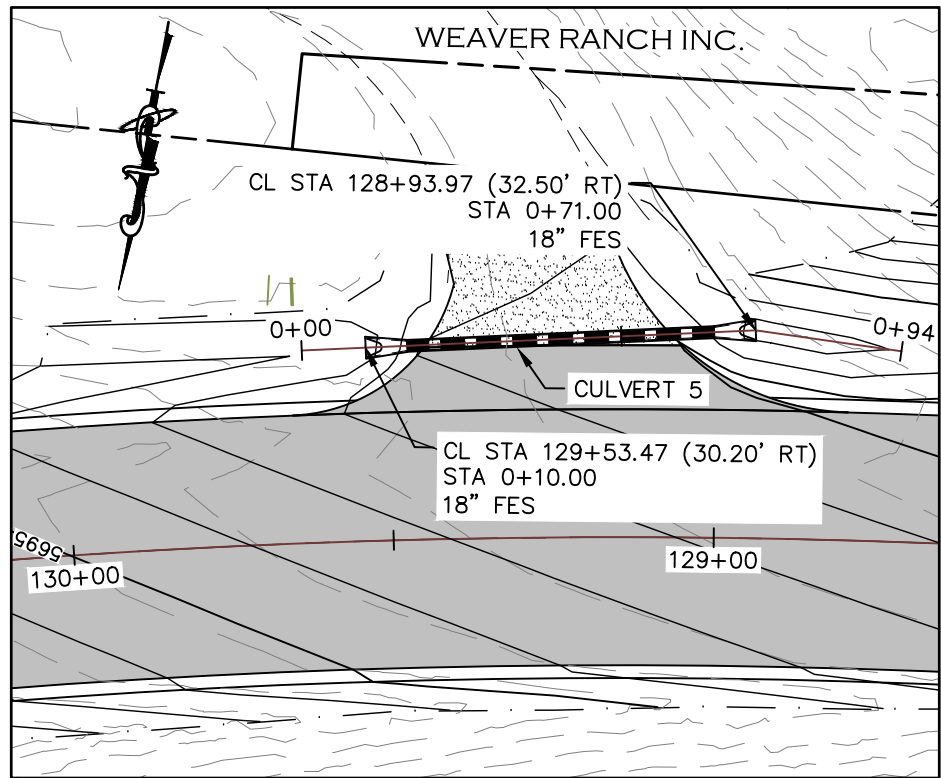
PROJECT NO. 335

LARIMER COUNTY ROAD 72

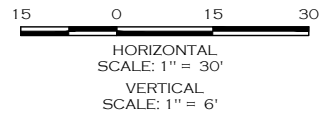
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FILE NAME:	1421-094-00 STRM P&P.DWG

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(R-4)	
(R-5)	

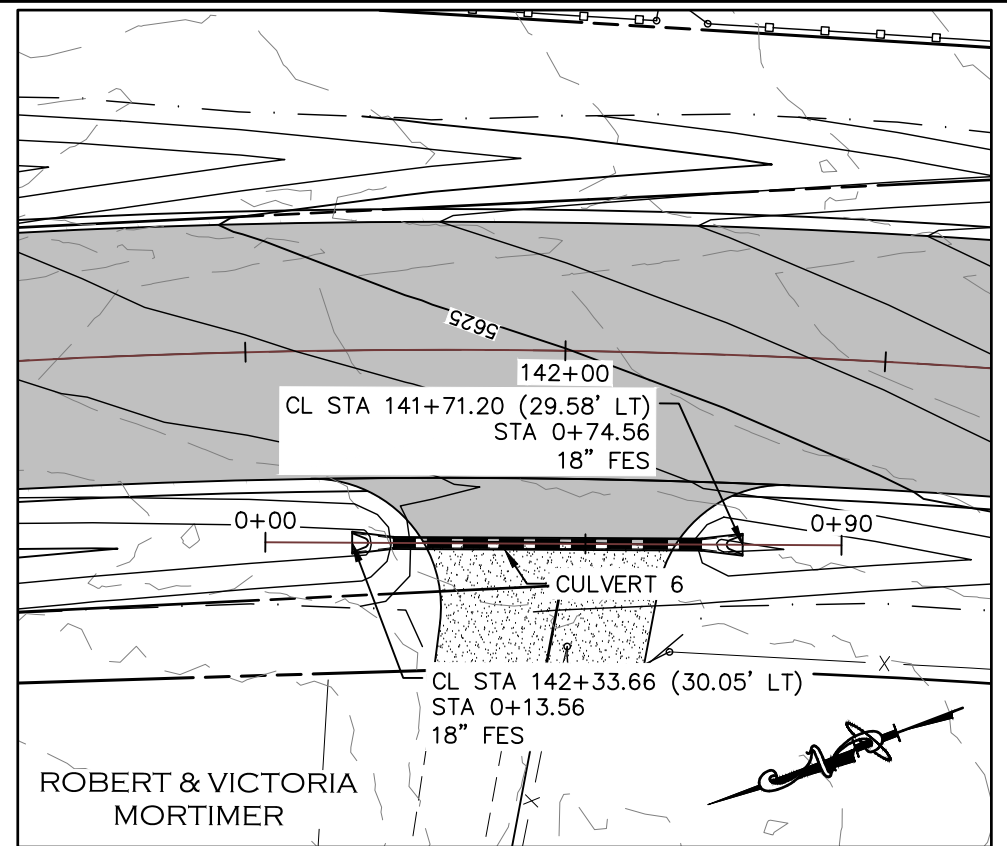


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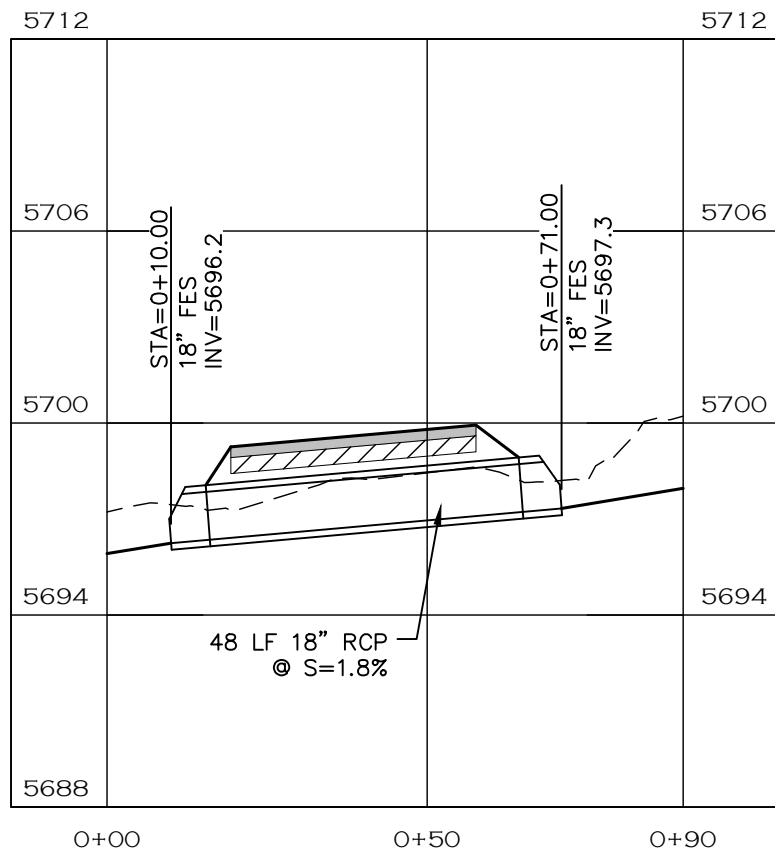


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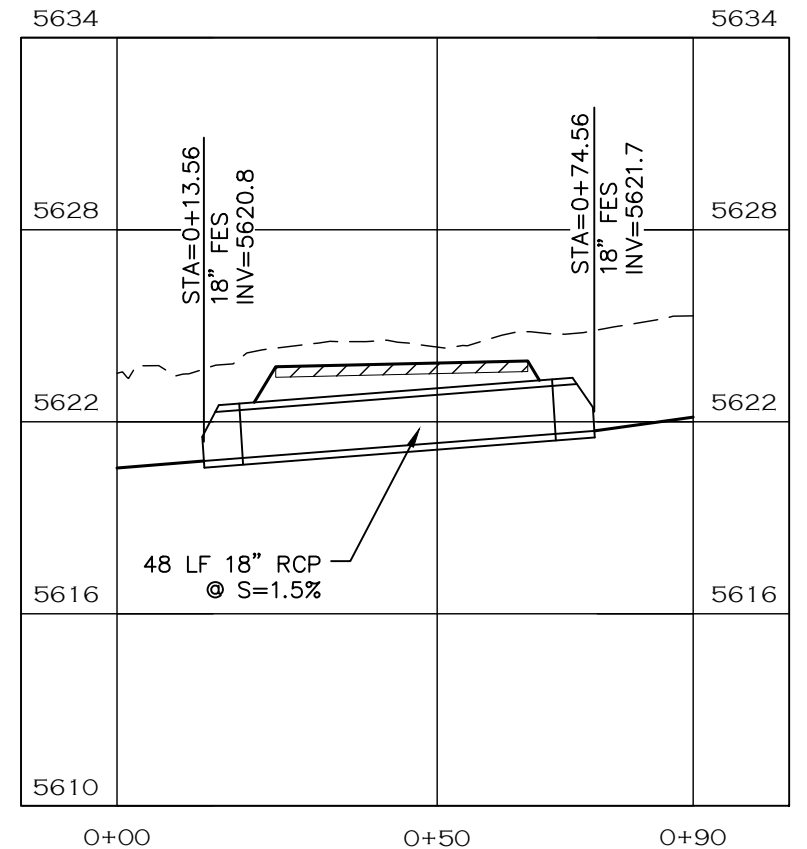
1. RIPRAP PAD SHALL BE TYPE L RIPRAP D50=9" PER CDOT SECTION 506 PLACED ON APPROVED GEOTEXTILE FABRIC.
2. LENGTH OF PIPE DOES NOT INCLUDE FLARED END SECTION.



CULVERT 6



CULVERT 5 PROFILE



CULVERT 6 PROFILE

CALL UTILITY NOTIFICATION
CENTER OF COLORADO
811
CALL 2-BUSINESS DAYS IN ADVANCE
BEFORE YOU DIG, GRADE, OR EXCAVATE
FOR THE MARKING OF UNDERGROUND
MEMBER UTILITIES.



COMPUTER INFORMATION	
CREATION DATE:	07/13/20
MODIFICATION DATE:	02/01/21
FILE LOCATION:	INTEREST PROJECTS\2019 PROJECTS\1421-094-00 (LARIMER COUNTY ROAD 72)\DRAWINGS\ENGINEERING PLANS
FILE NAME:	1421-094-00 STRM P&P.DWG

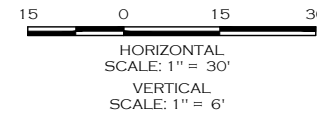
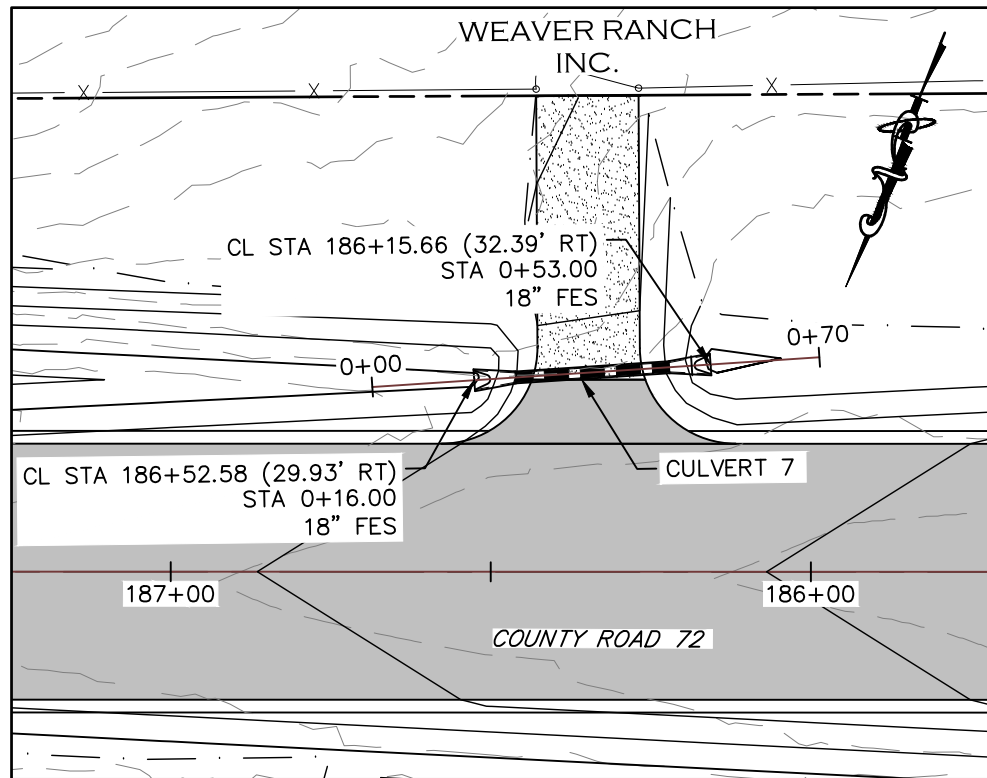
REVISIONS	
(R-1)	
(R-2)	
(R-3)	
(R-4)	
(R-5)	



LARIMER COUNTY ENGINEERING DEPARTMENT
200 WEST OAK, SUITE 3000
POST OFFICE BOX 1190
FORT COLLINS, COLORADO 80522-1190
(970)498-5700
(970)498-7986 FAX

AS CONSTRUCTED
NO REVISIONS:
REVISED:
VOID:

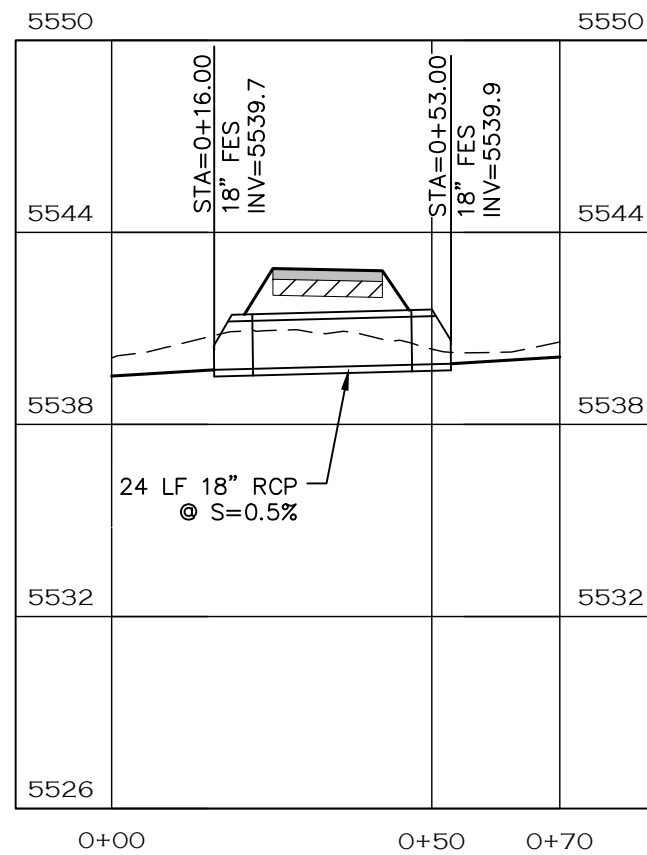
STORM PLAN & PROFILES	
PROJECT NO. 335	
LARIMER COUNTY ROAD 72	
SHEET NO.	102



NOTE

1. RIPRAP PAD SHALL BE TYPE L RIPRAP D50=9" PER CDOT SECTION 506 PLACED ON APPROVED GEOTEXTILE FABRIC.
2. LENGTH OF PIPE DOES NOT INCLUDE FLARED END SECTION.

CULVERT 7

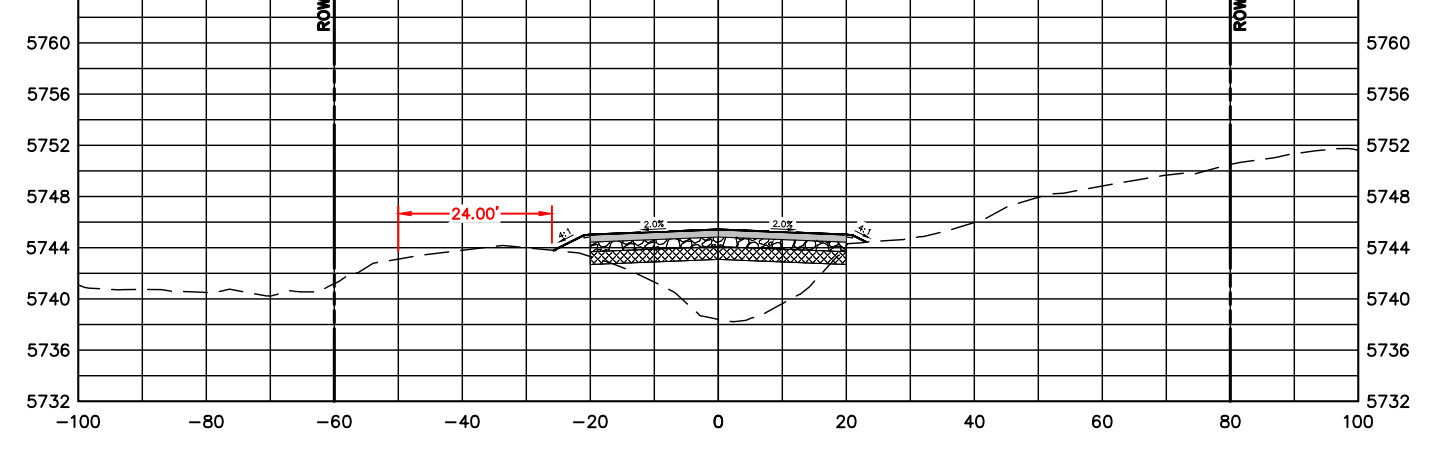
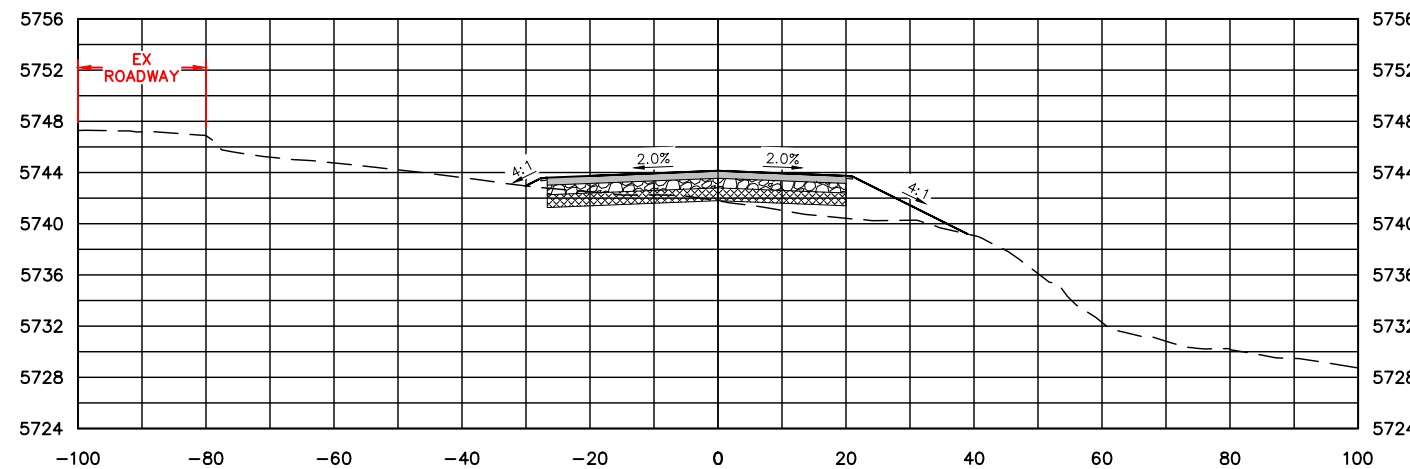
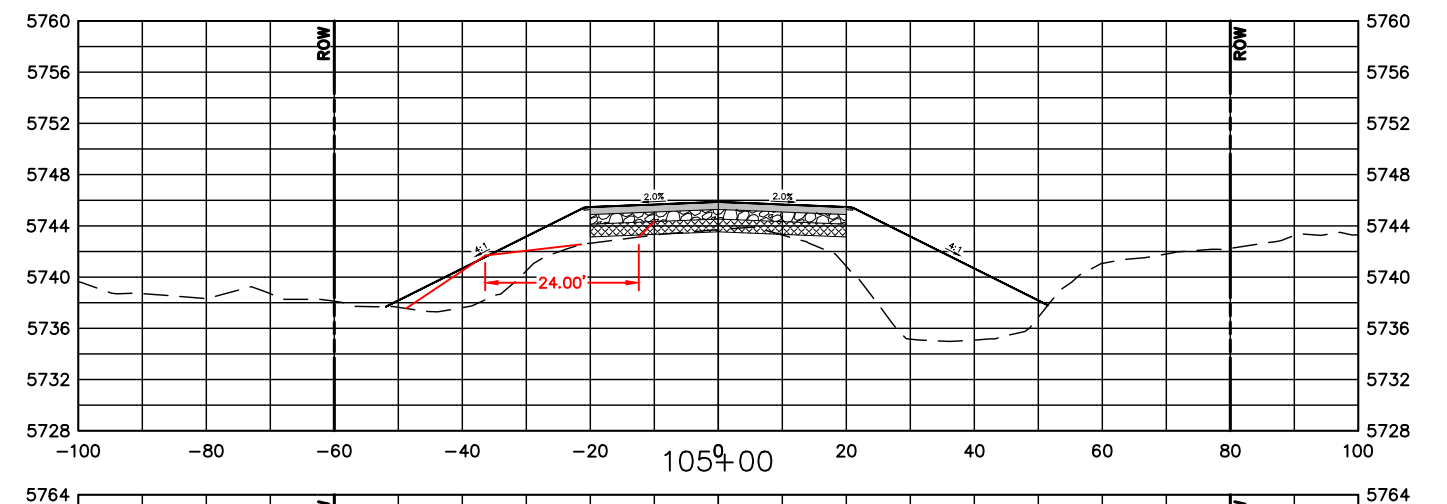
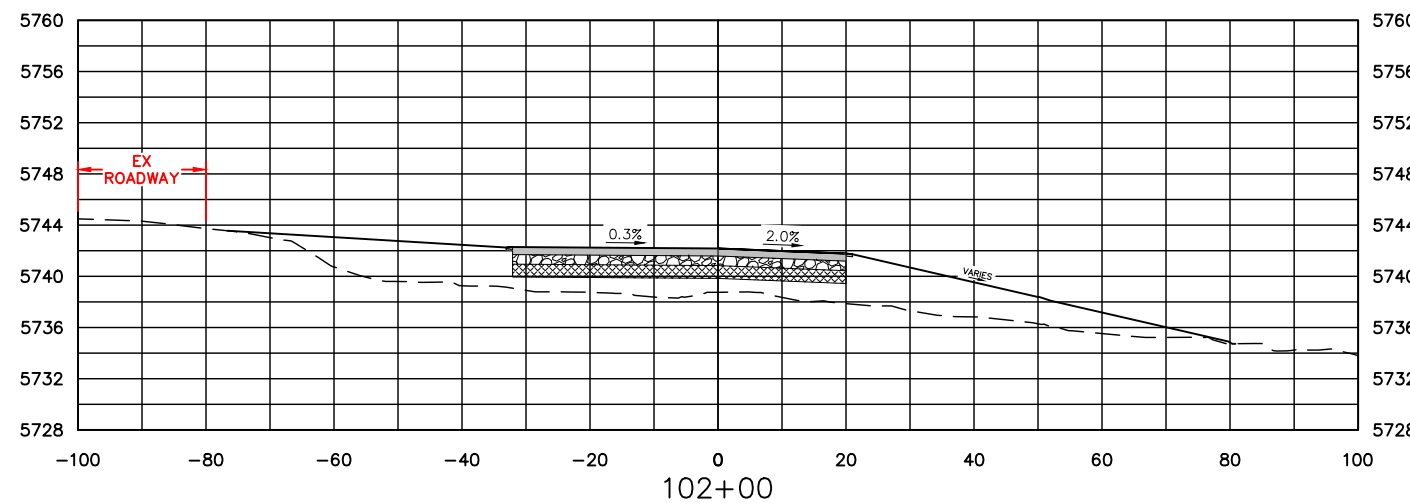
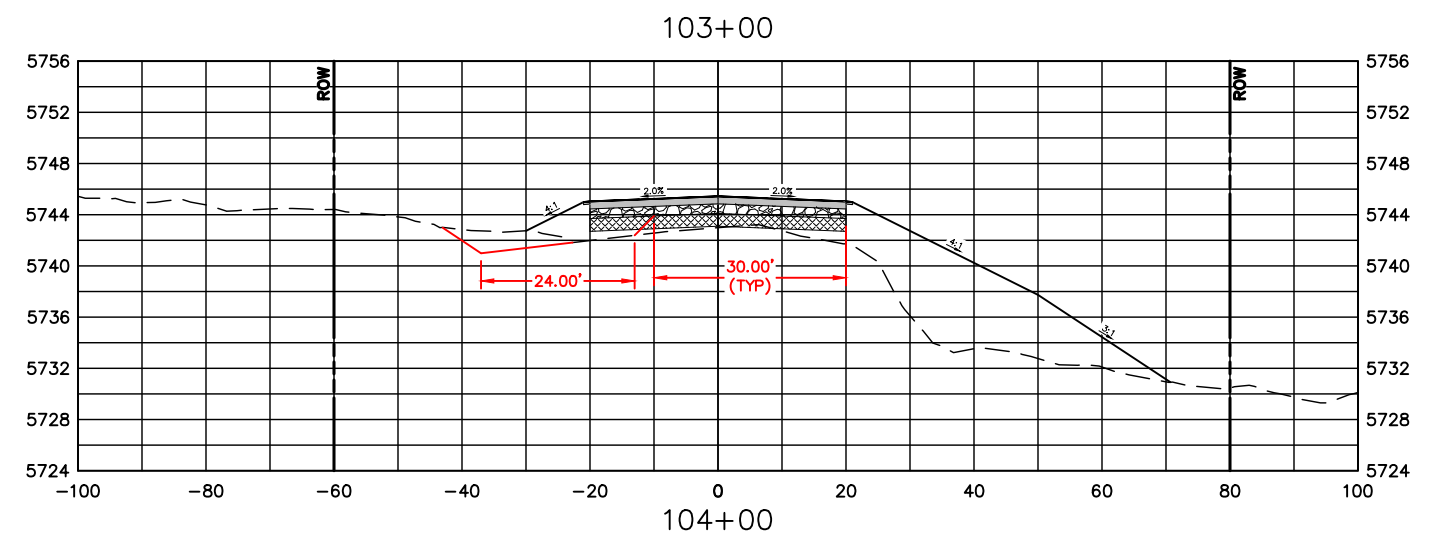
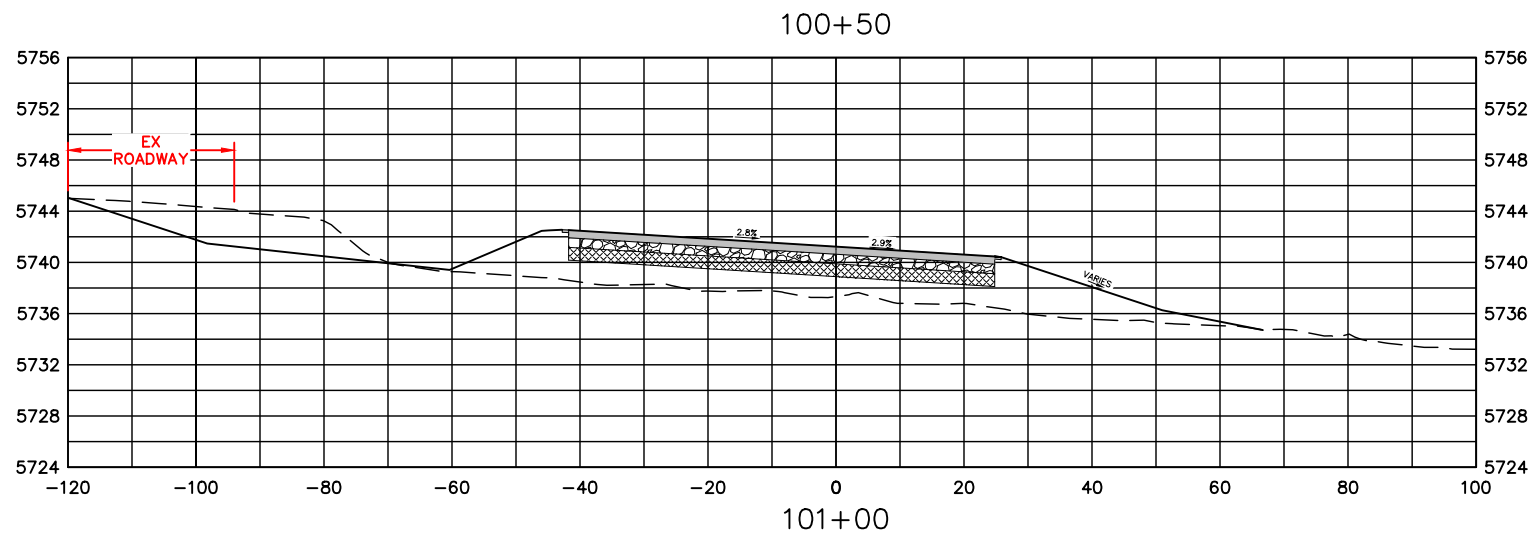


CULVERT 7 PROFILE



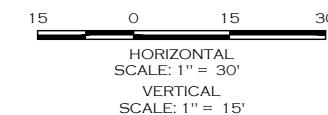
CALL UTILITY NOTIFICATION
 CENTER OF COLORADO
 811
 CALL 2-BUSINESS DAYS IN ADVANCE
 BEFORE YOU DIG, GRADE, OR EXCAVATE
 FOR THE MARKING OF UNDERGROUND
 MEMBER UTILITIES.

COMPUTER INFORMATION		REVISIONS		<p>LARIMER COUNTY ENGINEERING DEPARTMENT 200 WEST OAK, SUITE 3000 POST OFFICE BOX 1190 FORT COLLINS, COLORADO 80522-1190 (970)498-5700 (970)498-7986 FAX</p>	AS CONSTRUCTED	STORM PLAN & PROFILES	PROJECT NO. 335
CREATION DATE:	07/13/20	(R-1)			NO REVISIONS:		LARIMER COUNTY ROAD 72
MODIFICATION DATE:	02/01/21	(R-2)			REVISED:		
FILE LOCATION:	INTEREST PROJECTS\2019 PROJECTS\1421-094-00 (LARIMER COUNTY ROAD 72)\DRAWINGS\ENGINEERING PLANS	(R-3)			VOID:		
FILE NAME:	1421-094-00 STRM P&P.DWG	(R-4)					SHEET NO. 103



NOTE:

1. TEMPORARY CONSTRUCTION ROAD SHOWN IN RED FOR INFORMATION ONLY. INTENT IS TO BUILD A PORTION OF THE RIGHT SIDE OF THE ROADWAY SUBGRADE FIRST (24' MINIMUM WIDTH) WHILE MAINTAINING 2 LANES OF TRAFFIC ON THE EXISTING / TEMPORARY ROAD ON THE LEFT. AFTER EARTHWORK AND SUBGRADE PREP IS COMPLETED ON THE RIGHT, TRAFFIC WOULD BE MOVED TO THAT SECTION, TEMPORARY ROAD REMOVED AND REMAINING PORTION OF PROPOSED ROADWAY IS CONSTRUCTED.



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FILE NAME:	1421-094-00 XS.DWG

REVISIONS	
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(R-4)	
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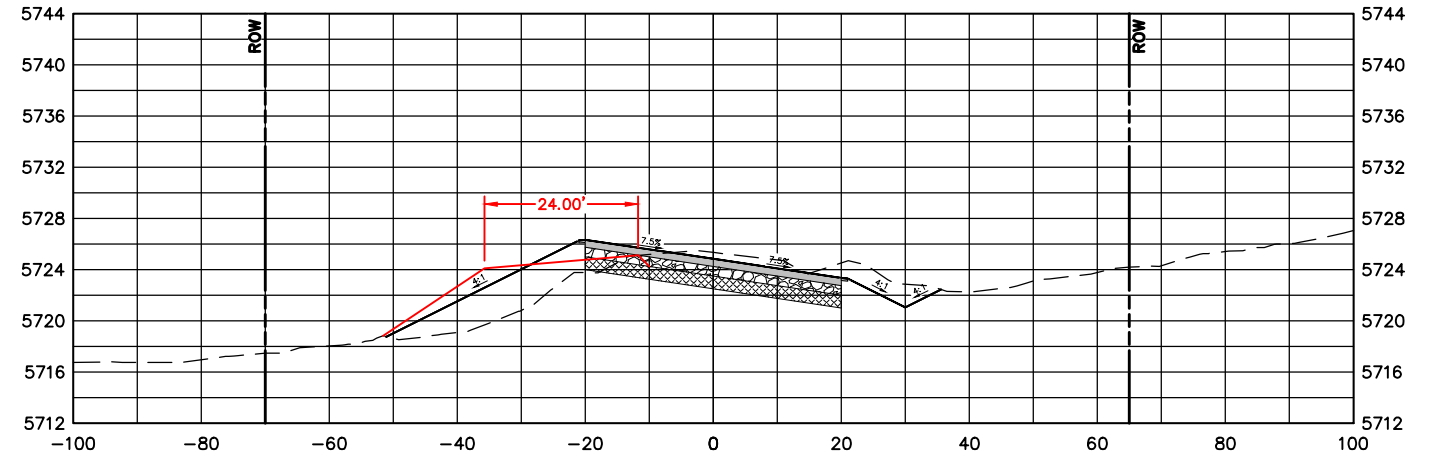
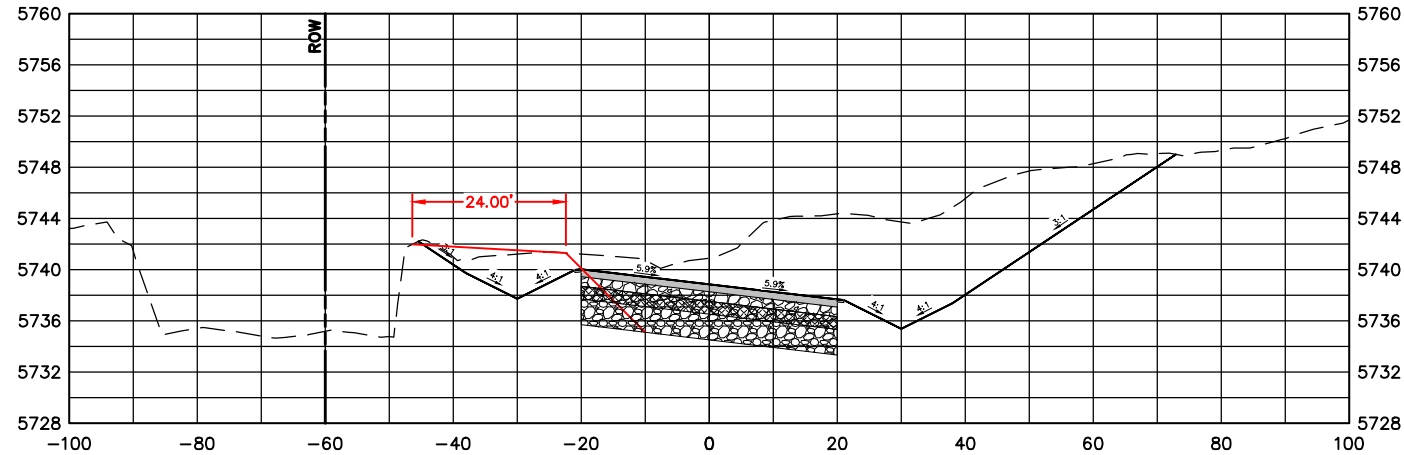
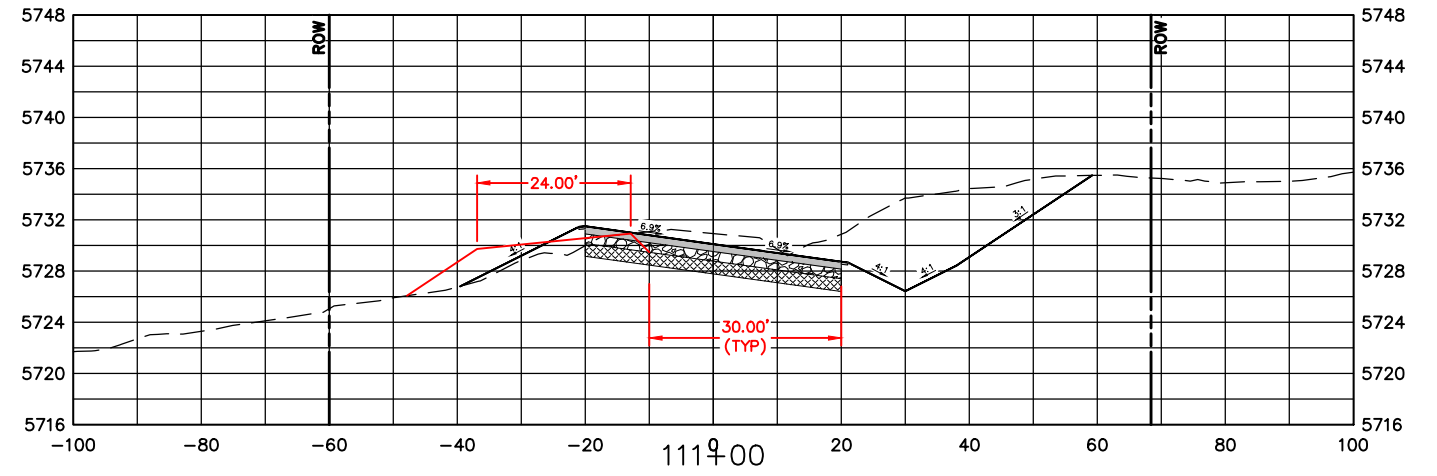
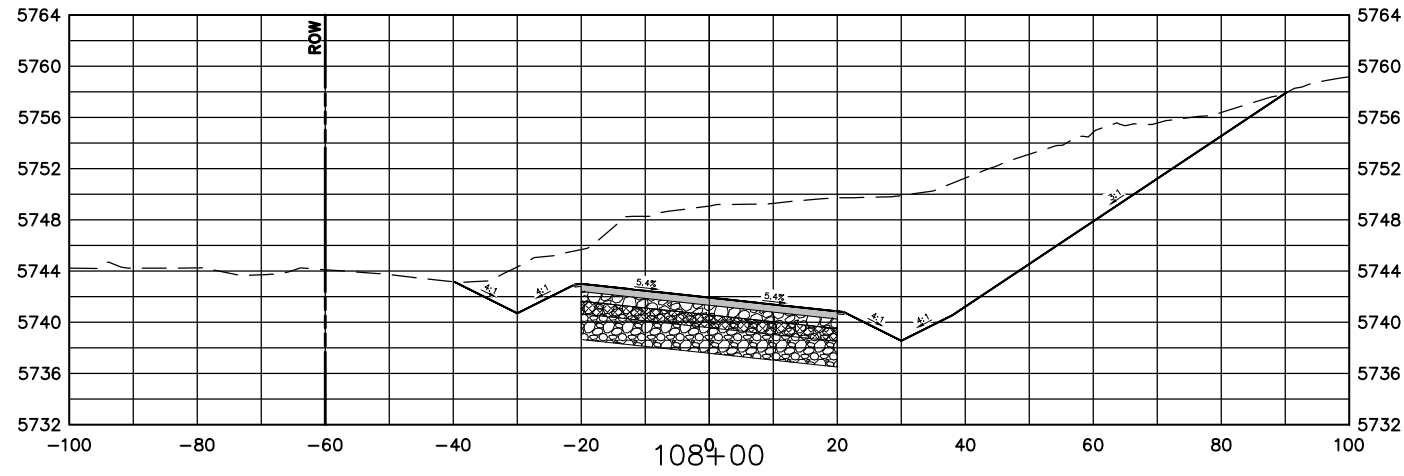
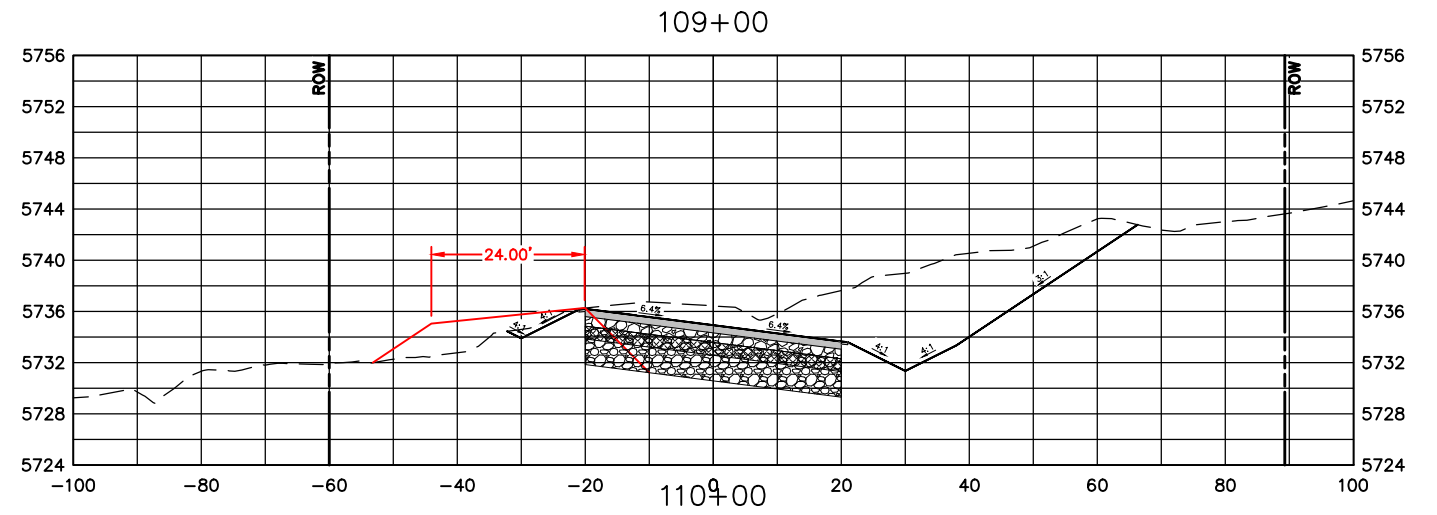
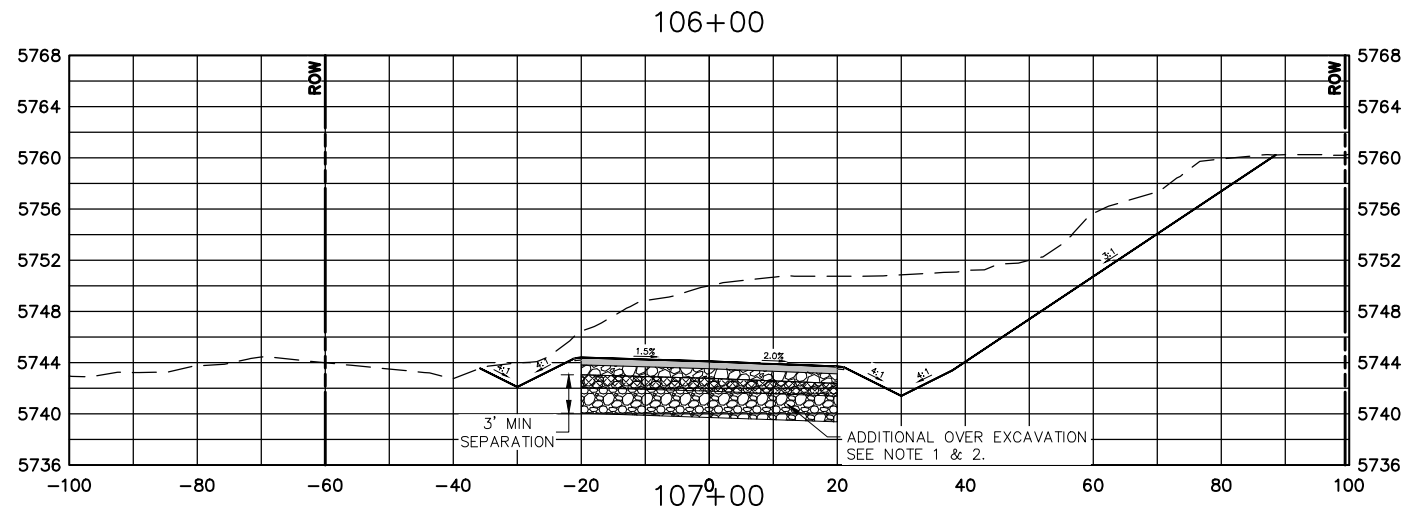


ENGINEERING DEPARTMENT
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AS CONSTRUCTED
NO REVISIONS:
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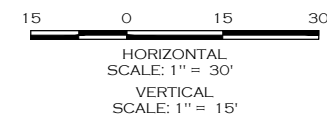
**CROSS SECTIONS
 STATION 100+50 TO 105+00**

PROJECT NO. 335
LARIMER COUNTY ROAD 72
SHEET NO. 104



NOTE:

1. MAINTAIN A MINIMUM OF 3 FEET VERTICAL SEPARATION FROM BOTTOM OF STANDARD 9 INCH AGGREGATE BASE COURSE TO TOP OF EXISTING SANDSTONE/BED ROCK. BRIDGE GAP WITH ADDITIONAL AGGREGATE BASE MATERIAL OR AS APPROVED BY THE PROJECT MANAGER. LIMITS OF REMOVAL ARE GENERALLY BETWEEN STA 105+50 AND 109+00. FINAL LIMITS TO BE FIELD VERIFIED.
2. ADDITIONAL OVER EXCAVATION FROM STA 105+50 TO 109+00 TO BE PAID FOR UNDER ROCK EXCAVATION. ADDITIONAL AGGREGATE BASE MATERIAL TO BE PAID FOR UNDER AGGREGATE BASE COURSE (CLASS 5).



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FILE NAME:	1421-094-00 XS.DWG

REVISIONS	
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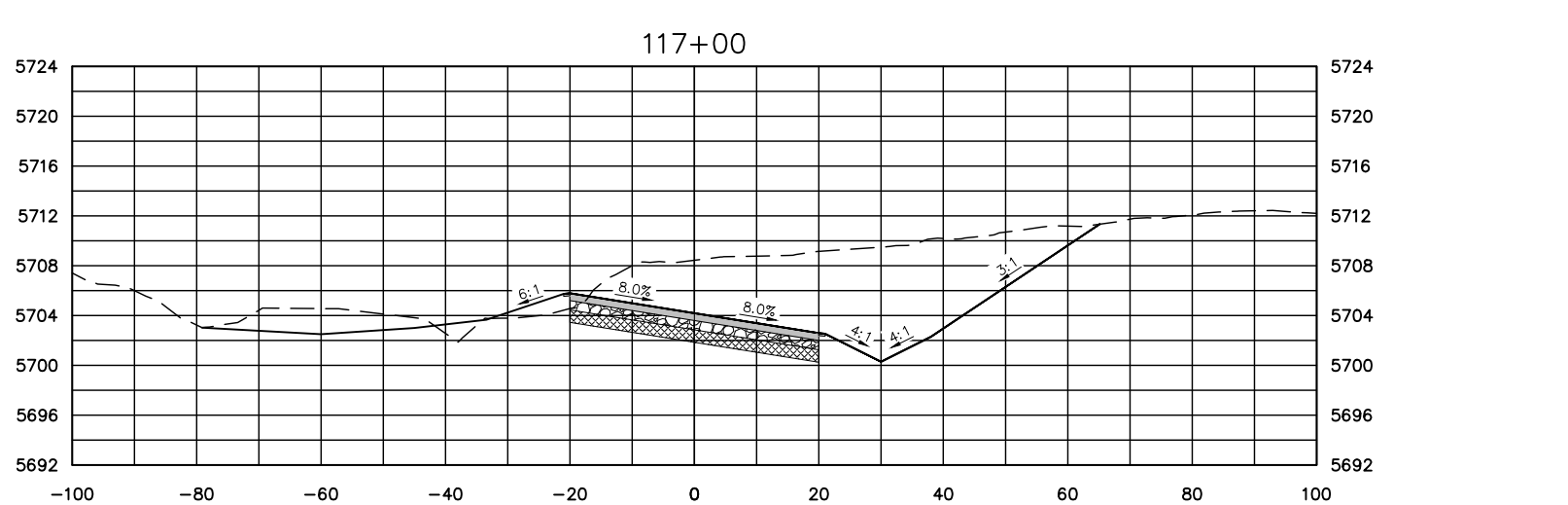
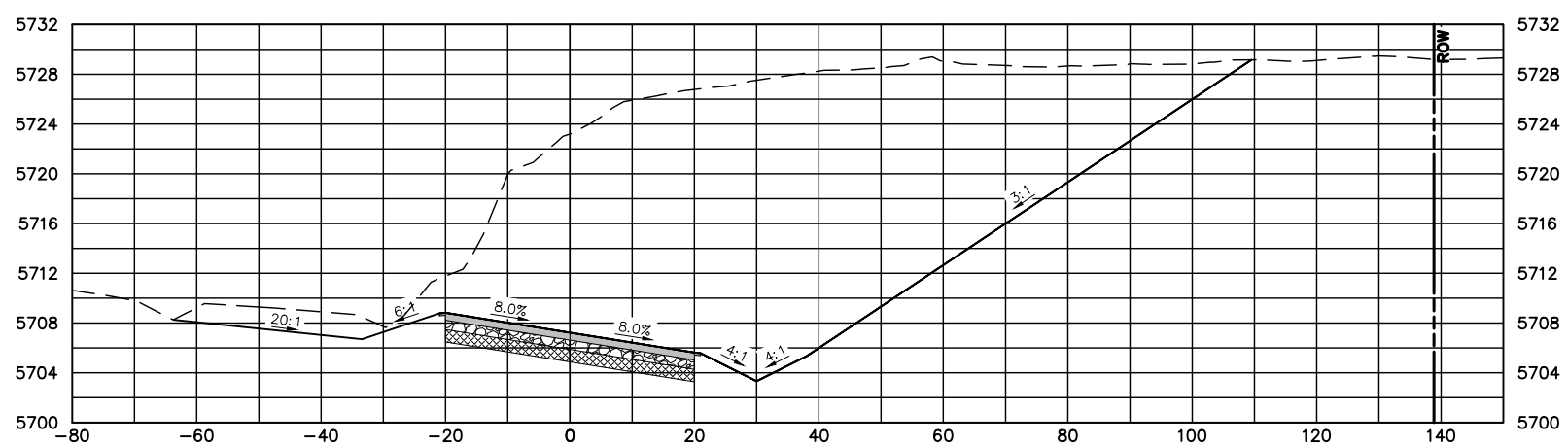
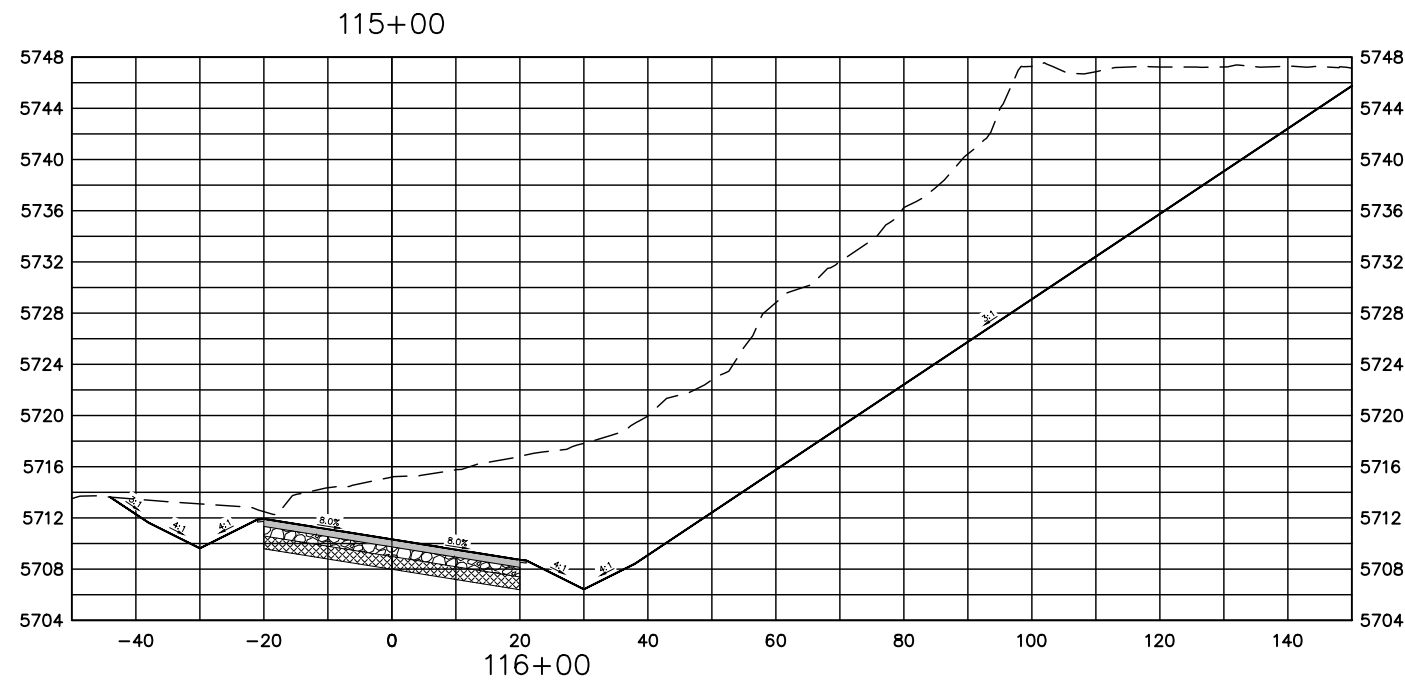
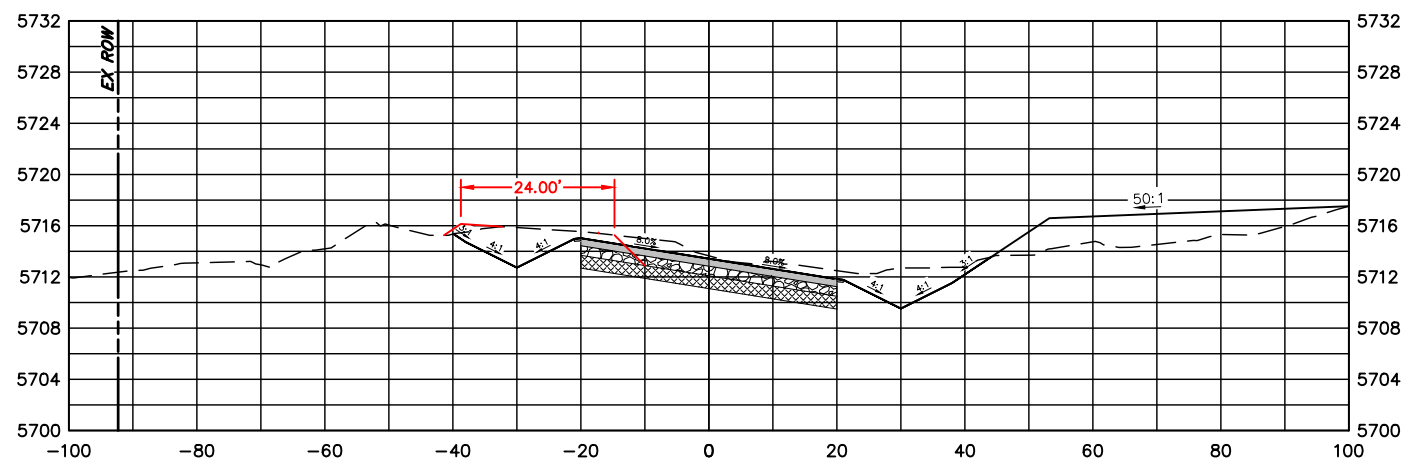
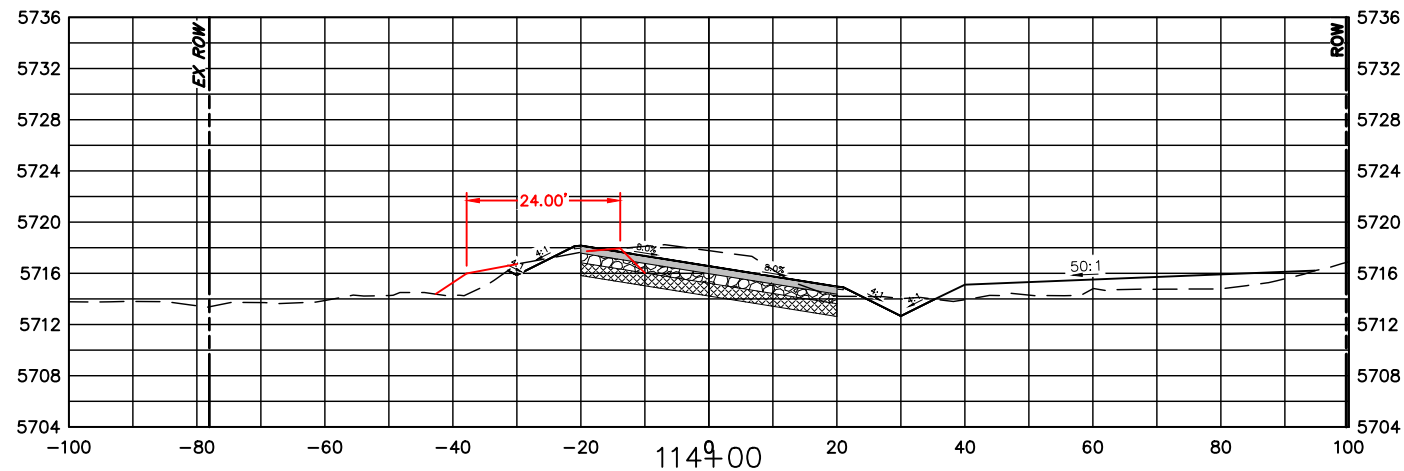
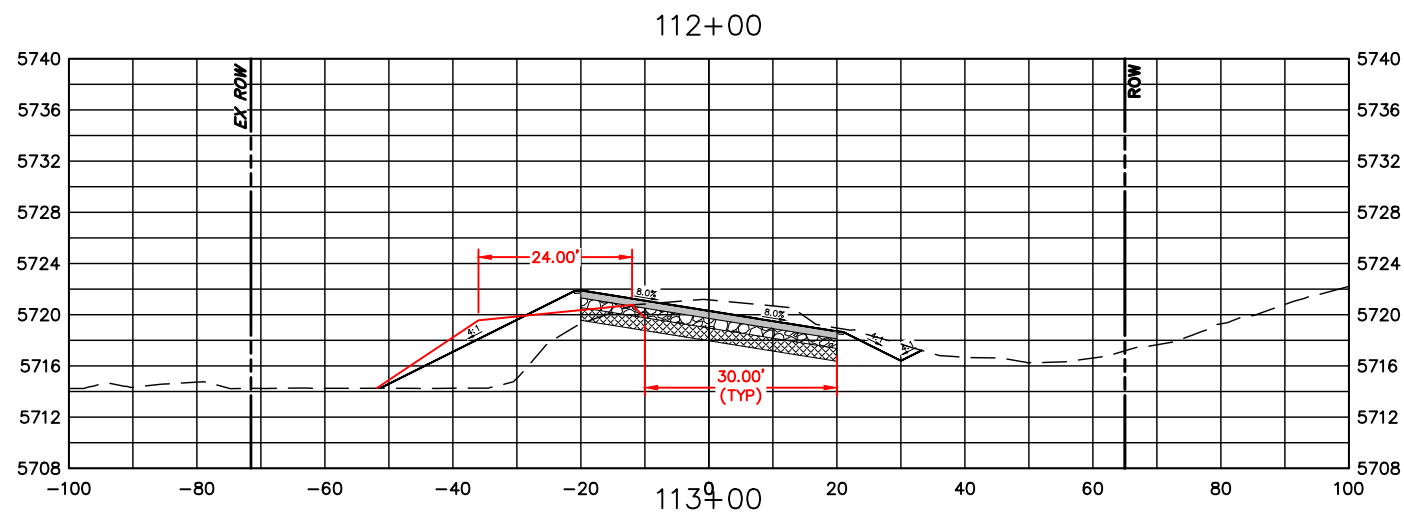


ENGINEERING DEPARTMENT
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AS CONSTRUCTED
NO REVISIONS:
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VOID:

CROSS SECTIONS
STATION 106+00 TO 111+00

PROJECT NO. 335
LARIMER COUNTY ROAD 72
SHEET NO. 105



HORIZONTAL SCALE: 1" = 30'
 VERTICAL SCALE: 1" = 15'

COMPUTER INFORMATION	
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FILE NAME:	1421-094-00 XS.DWG

REVISIONS	
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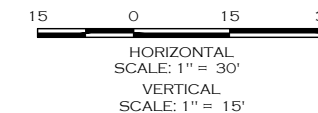
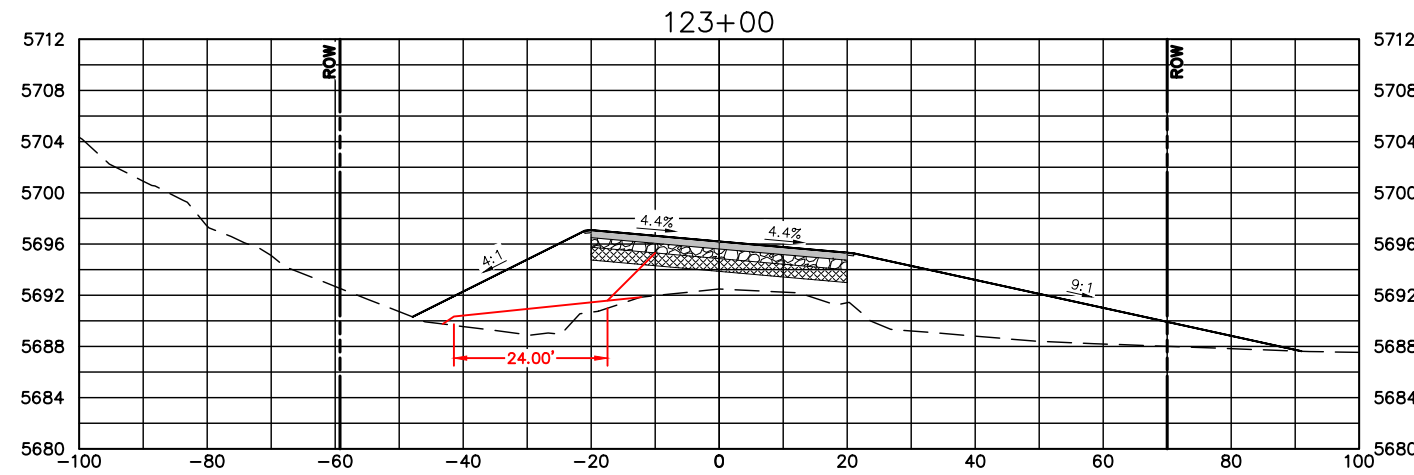
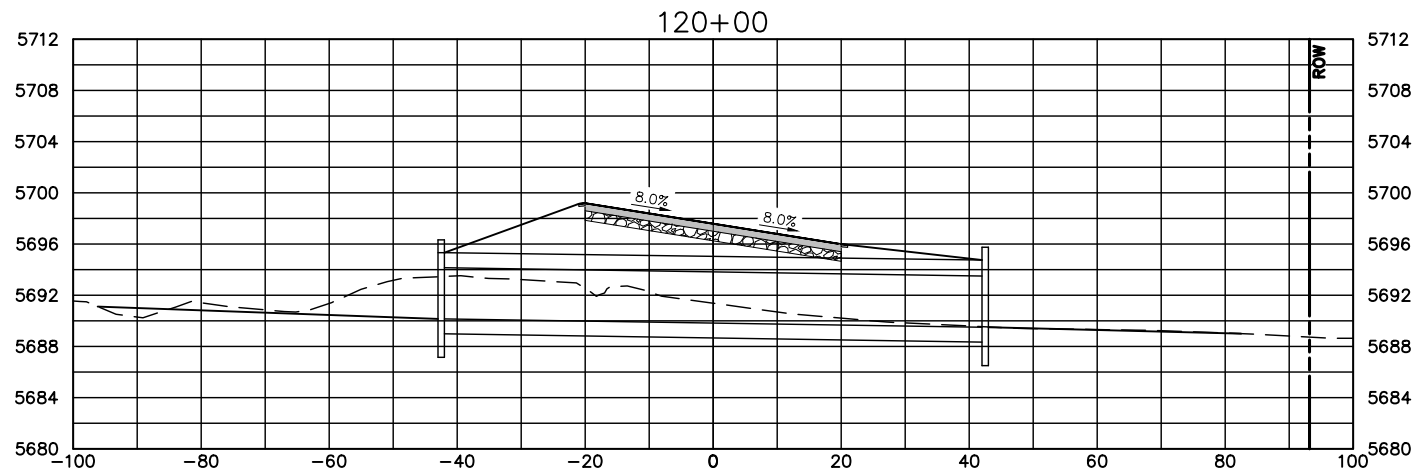
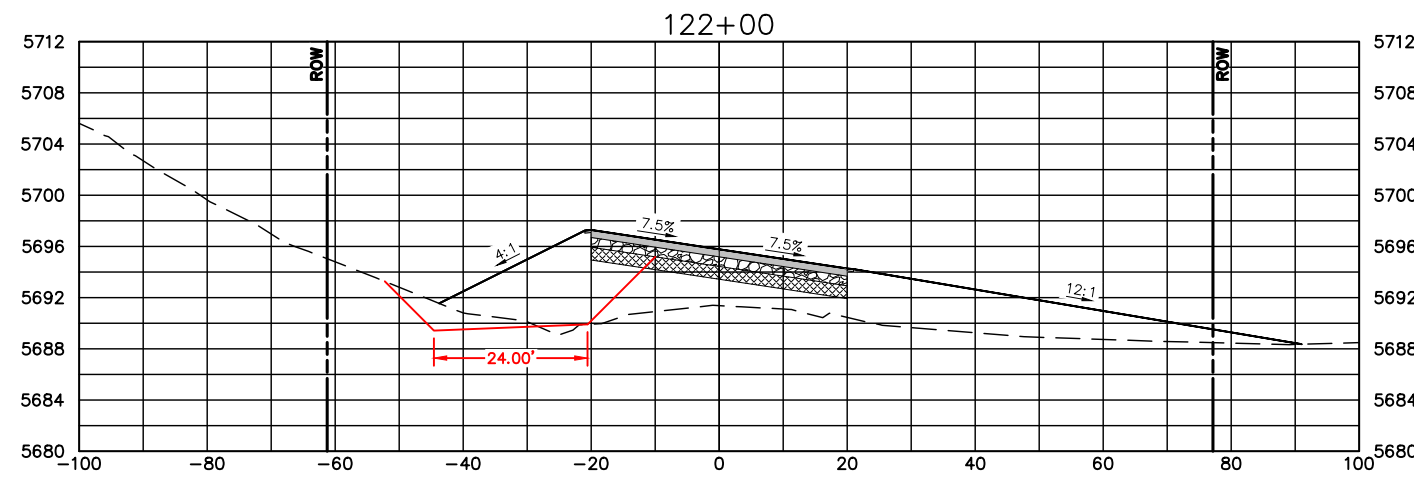
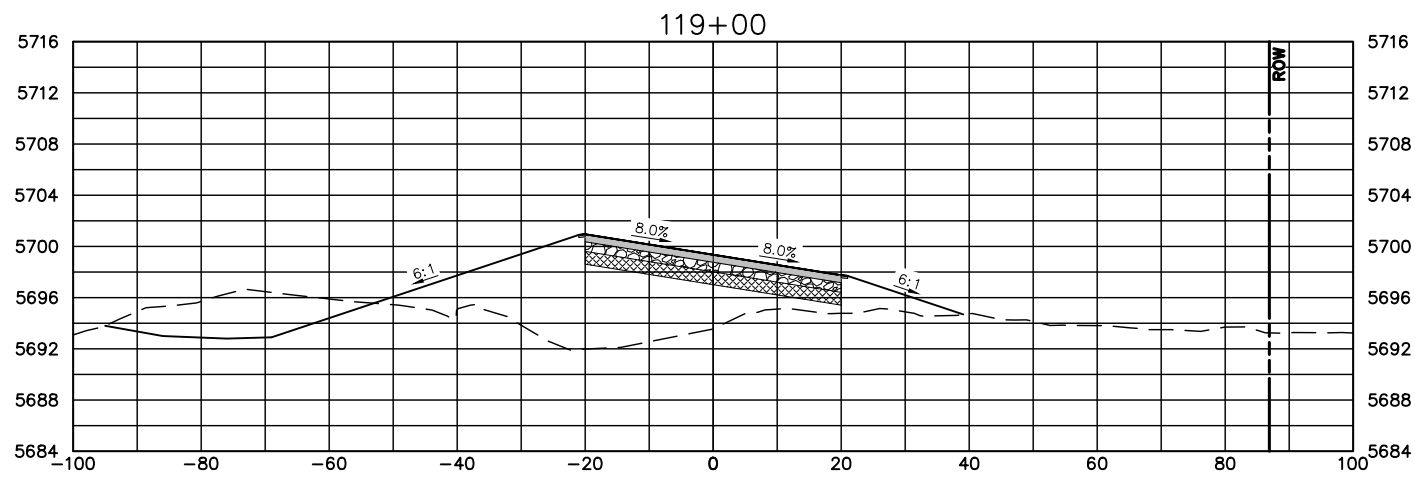
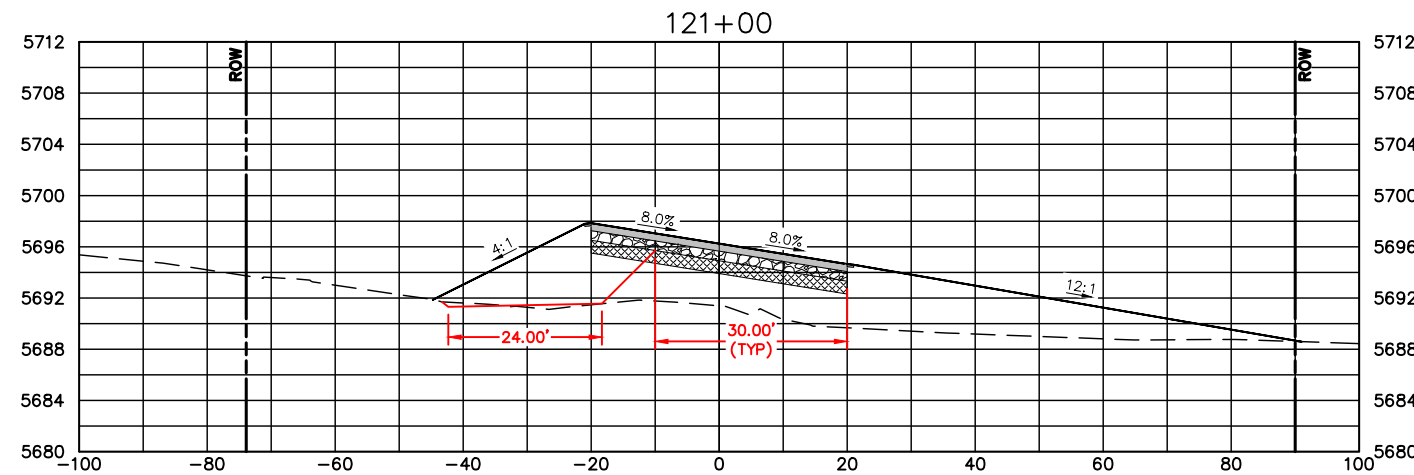
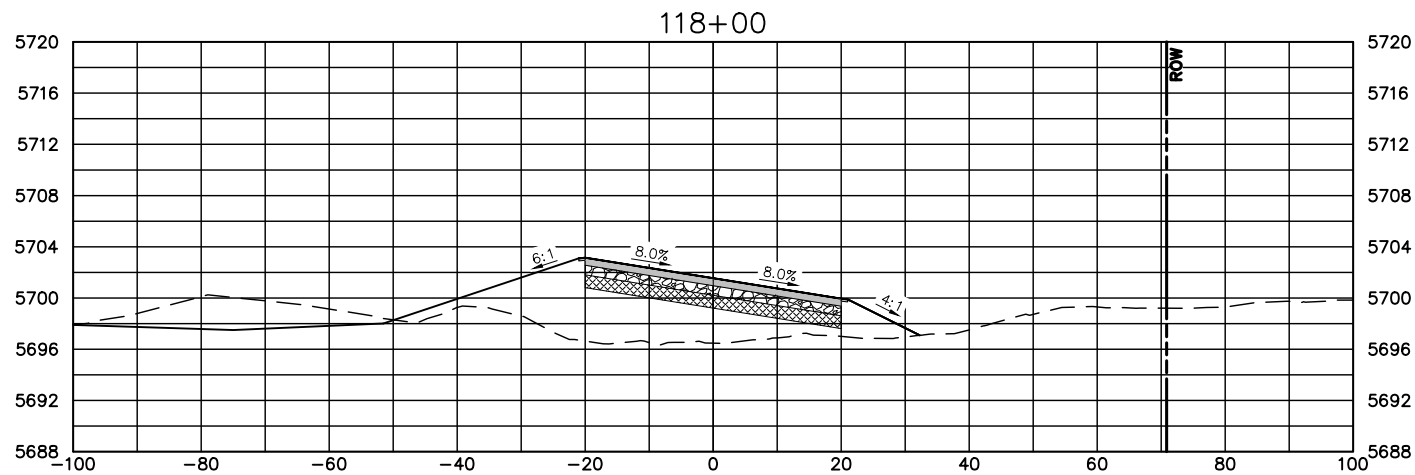


ENGINEERING DEPARTMENT
 200 WEST OAK, SUITE 3000
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 FORT COLLINS, COLORADO 80522-1190
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 (970)498-7986 FAX

AS CONSTRUCTED
NO REVISIONS:
REVISED:
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CROSS SECTIONS
STATION 112+00 TO 117+00

PROJECT NO. 335
LARIMER COUNTY ROAD 72
SHEET NO. 106



COMPUTER INFORMATION	
CREATION DATE:	07/13/20
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FILE NAME:	1421-094-00 XS.DWG

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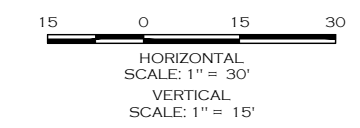
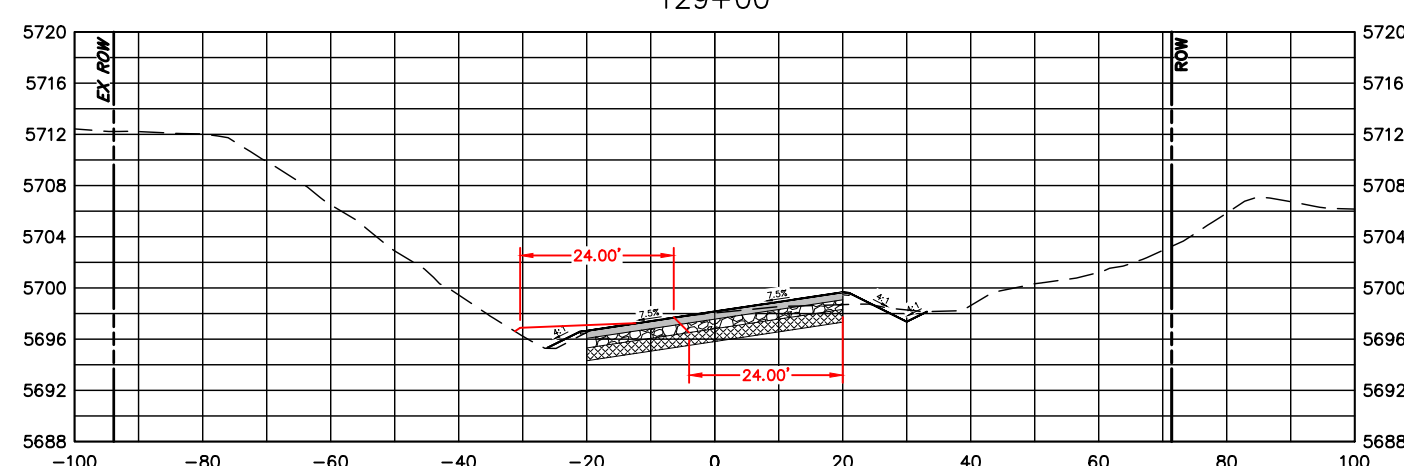
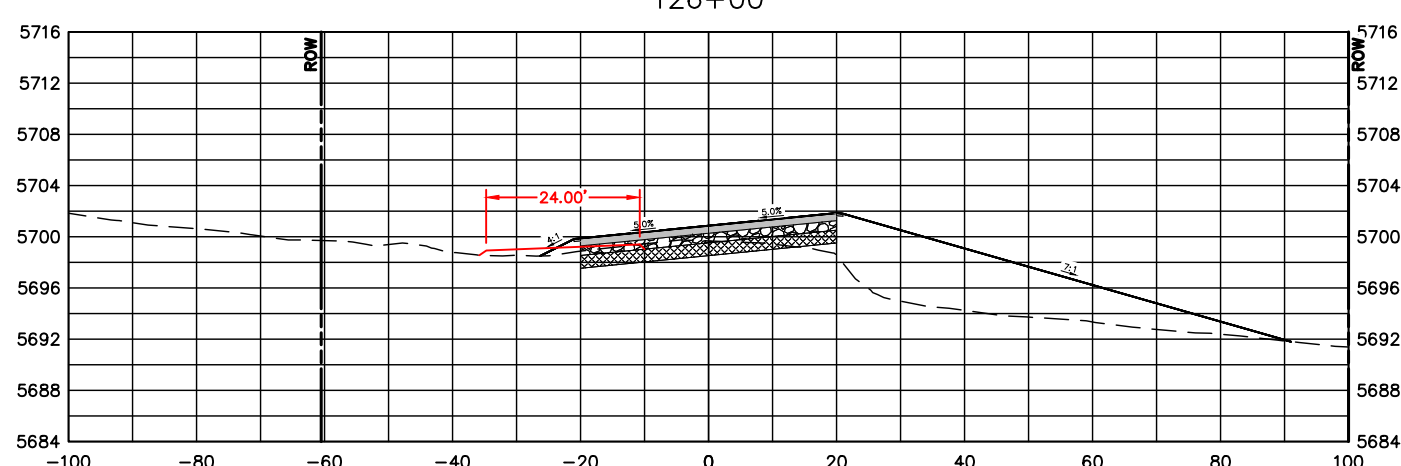
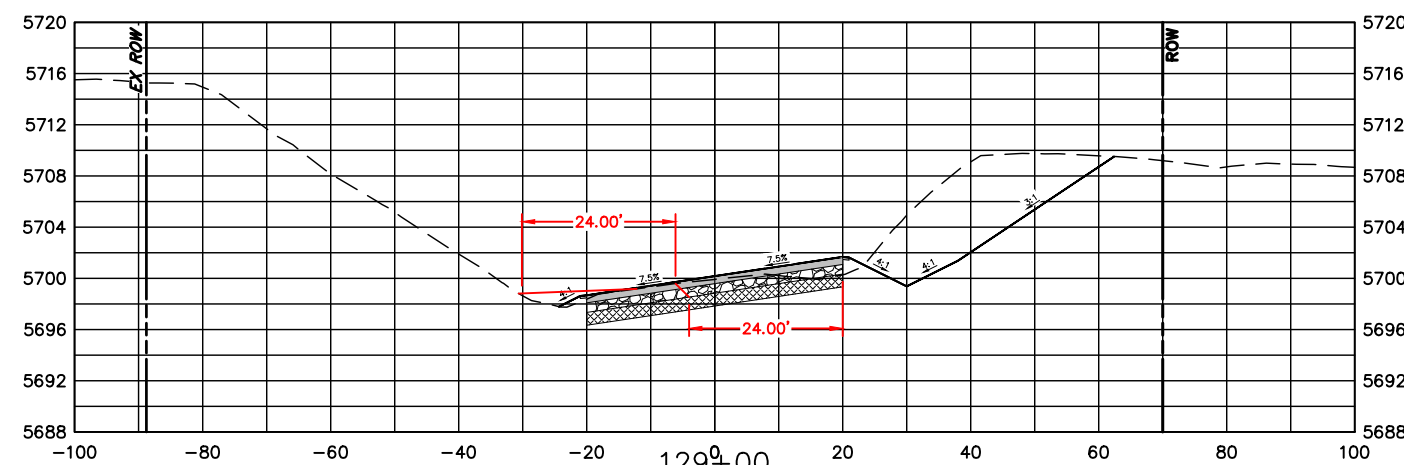
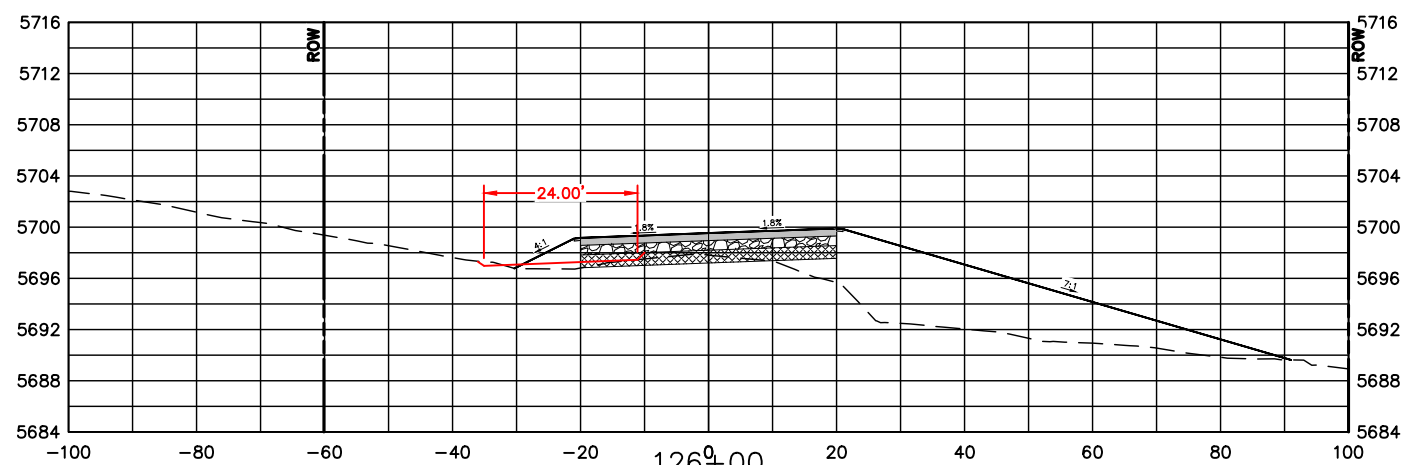
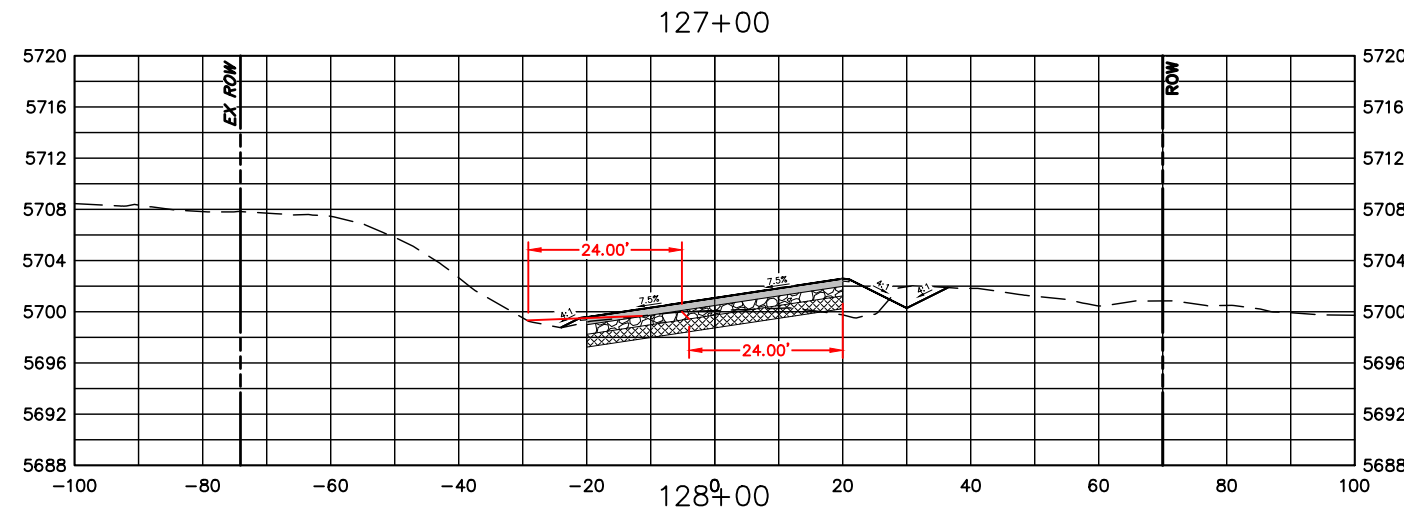
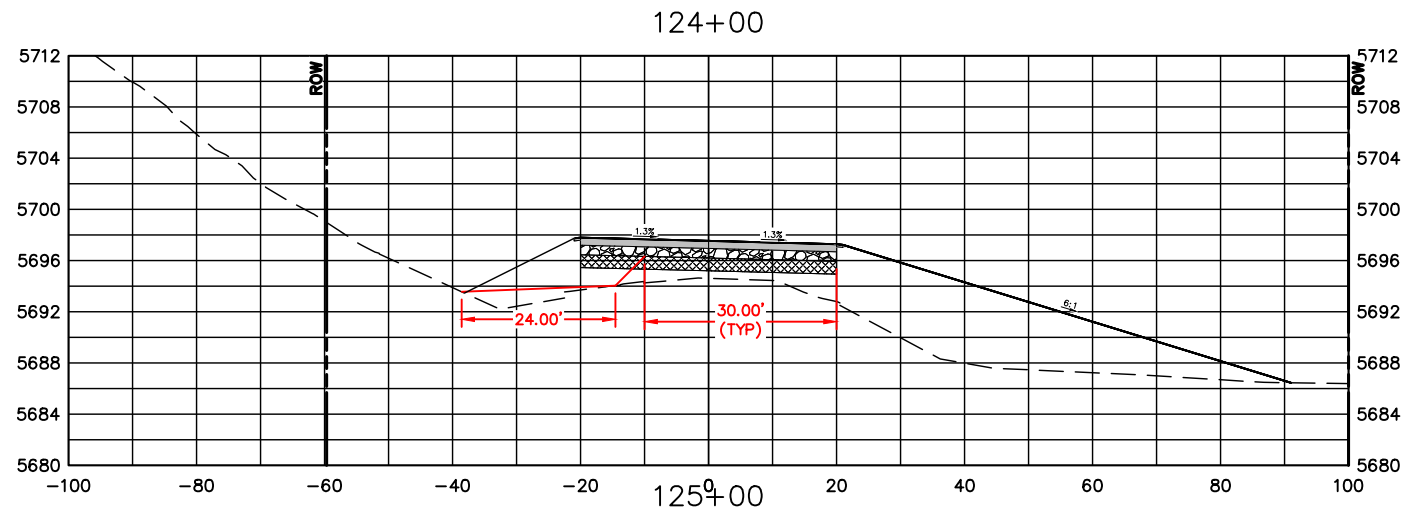


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**CROSS SECTIONS
 STATION 118+00 TO 123+00**

PROJECT NO. 335
LARIMER COUNTY ROAD 72
SHEET NO. 107



COMPUTER INFORMATION	
CREATION DATE:	07/13/20
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FILE NAME:	1421-094-00 XS.DWG

REVISIONS	
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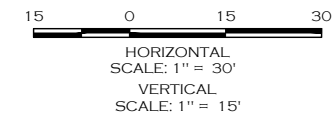
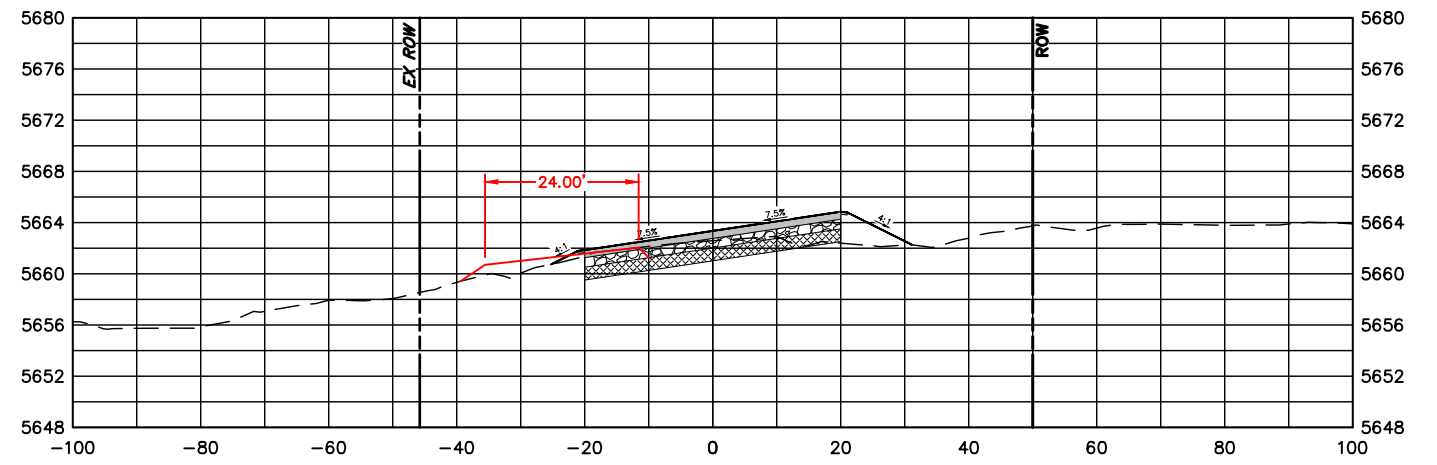
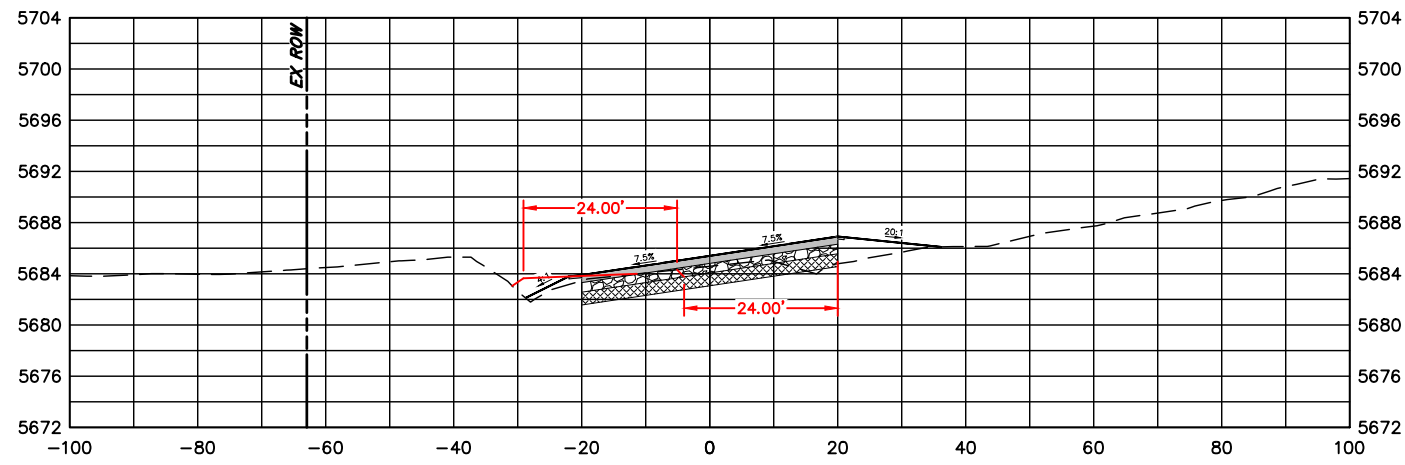
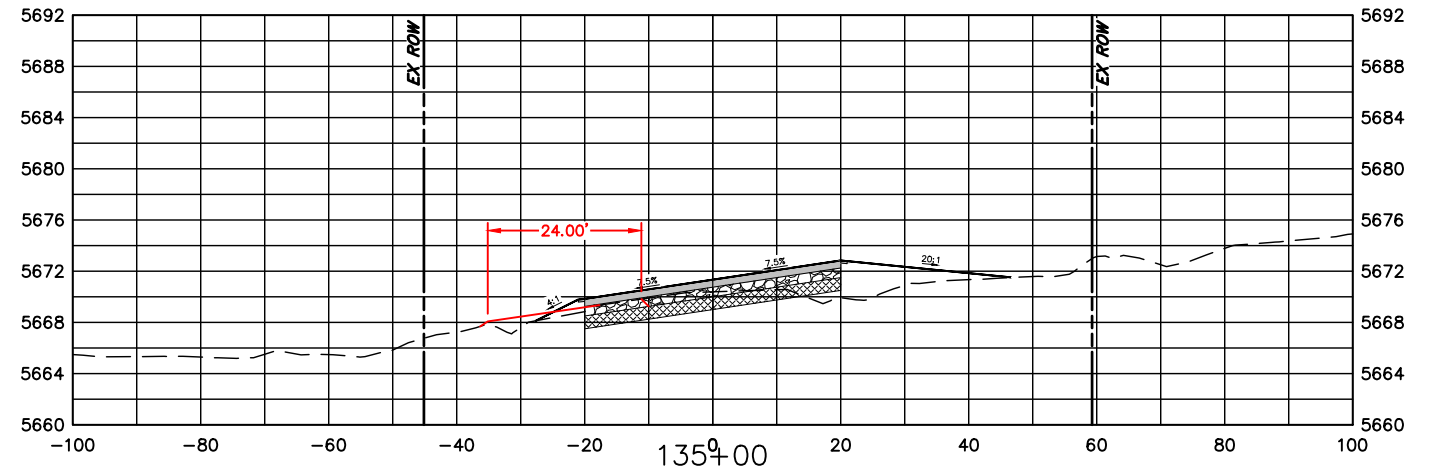
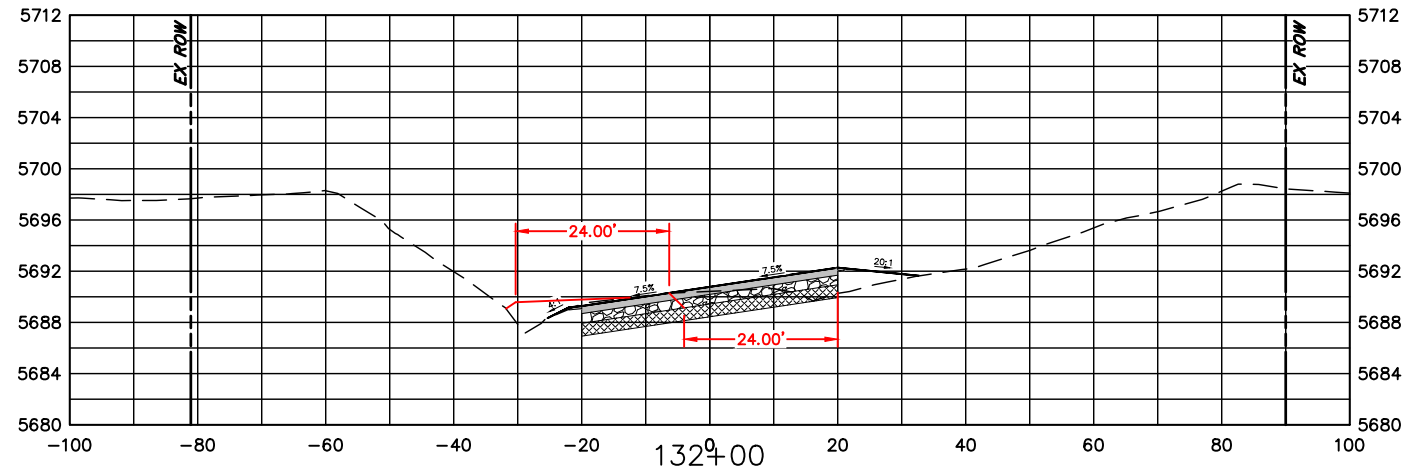
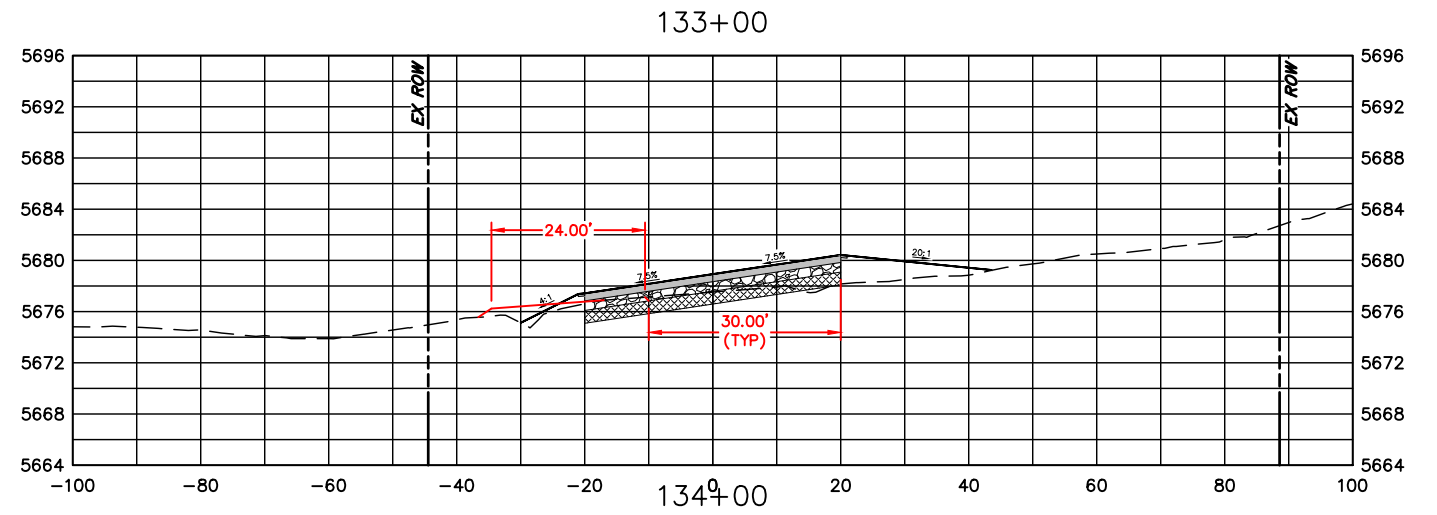
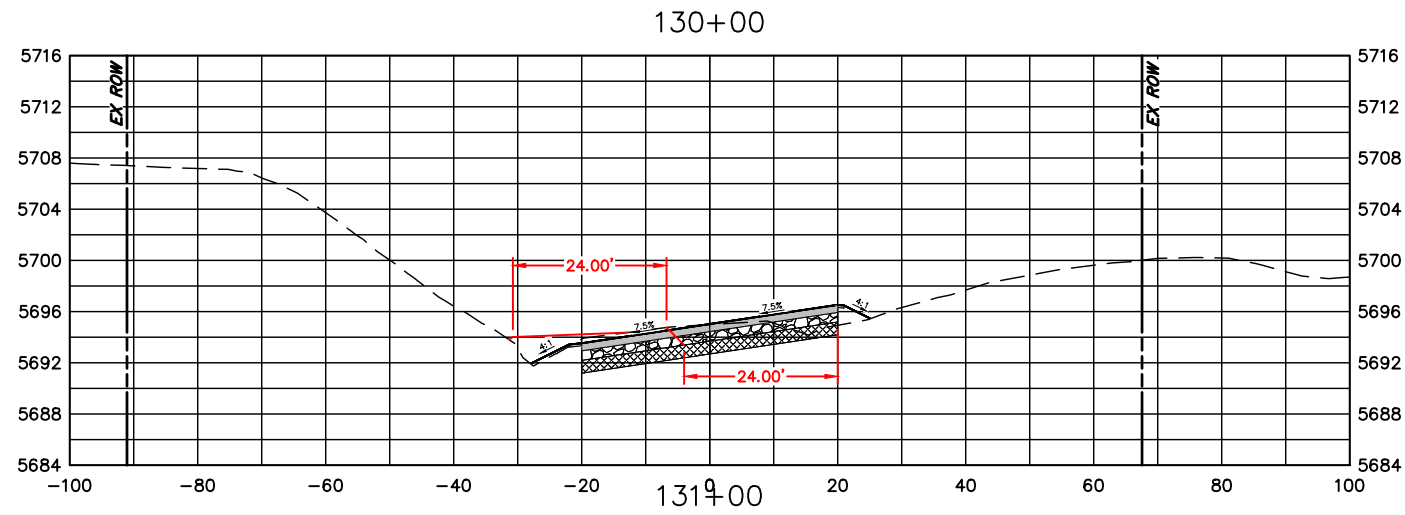


ENGINEERING DEPARTMENT
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 NO REVISIONS:
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CROSS SECTIONS
STATION 124+00 TO 129+00

PROJECT NO. 335
 LARIMER COUNTY ROAD 72
 SHEET NO. 108



COMPUTER INFORMATION	
CREATION DATE:	07/13/20
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FILE NAME:	1421-094-00 XS.DWG

REVISIONS	
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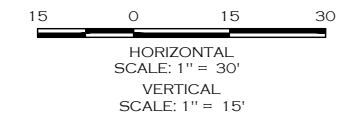
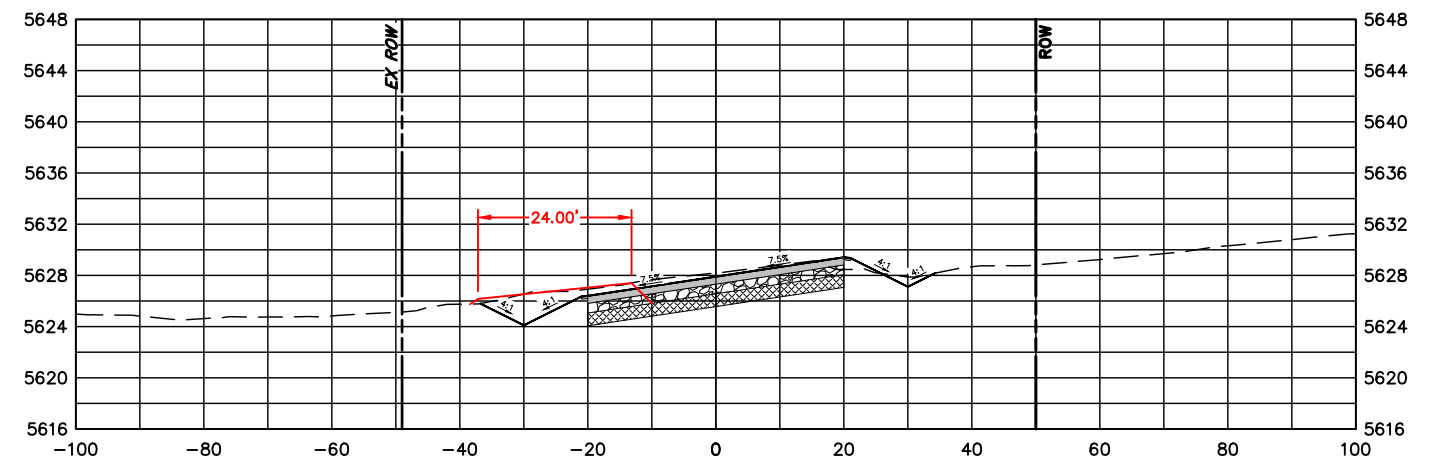
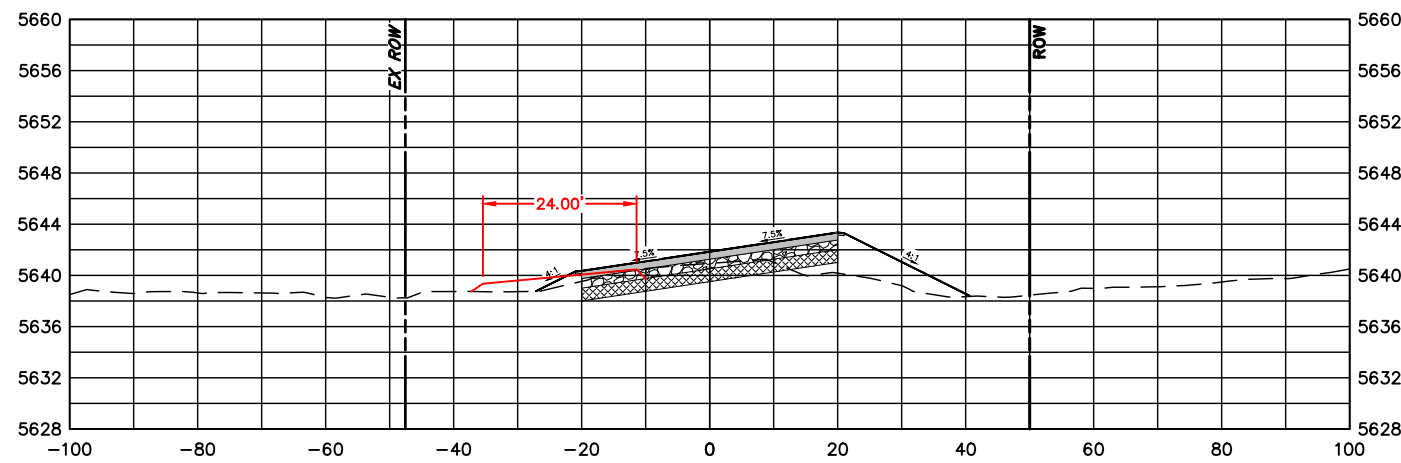
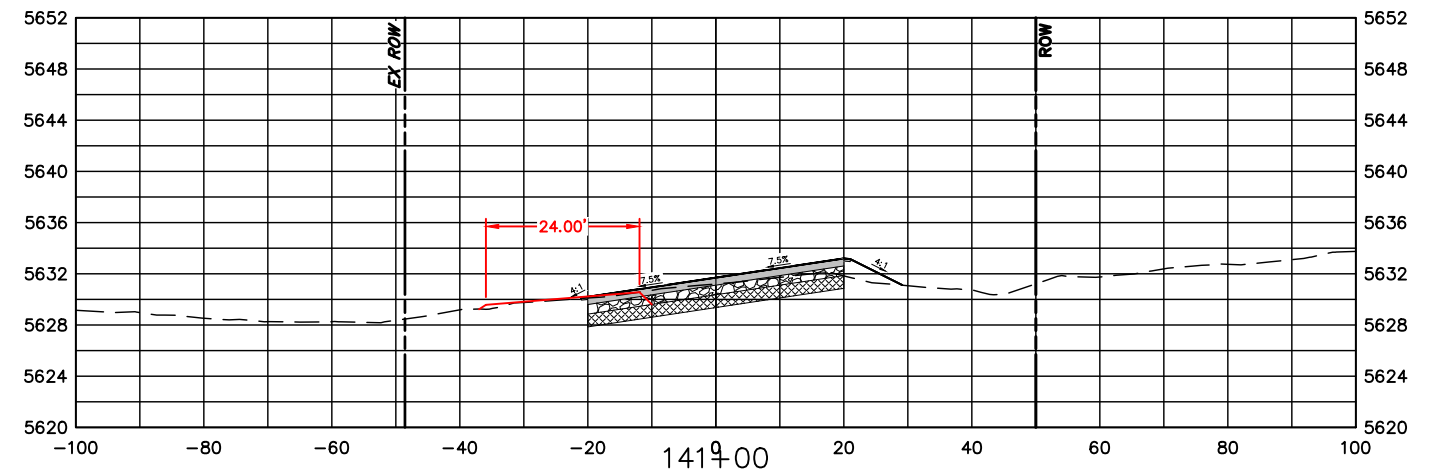
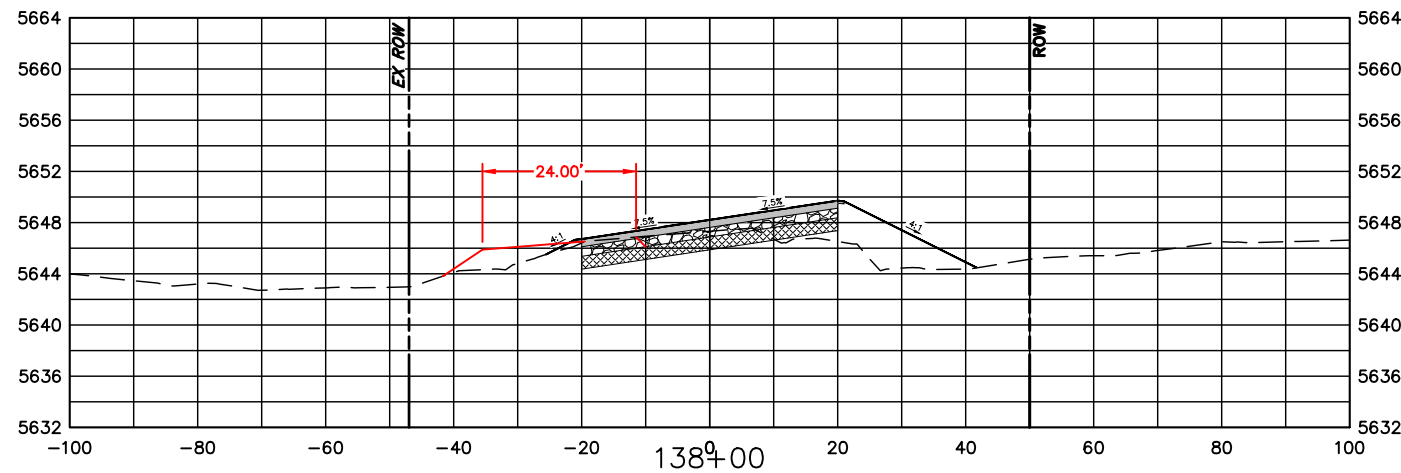
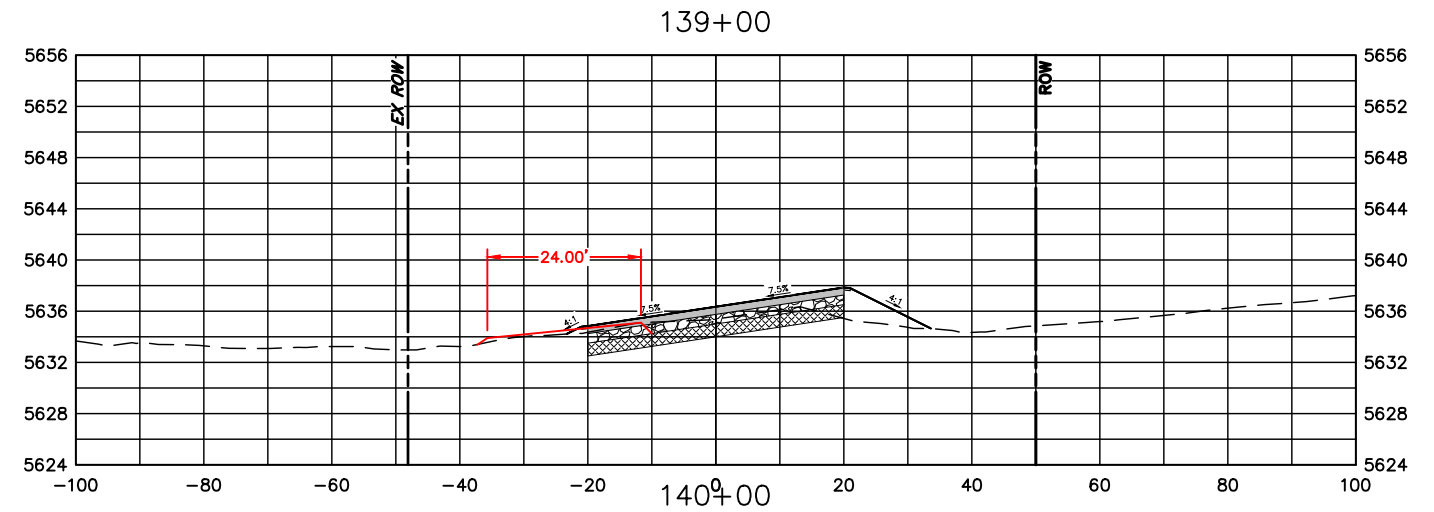
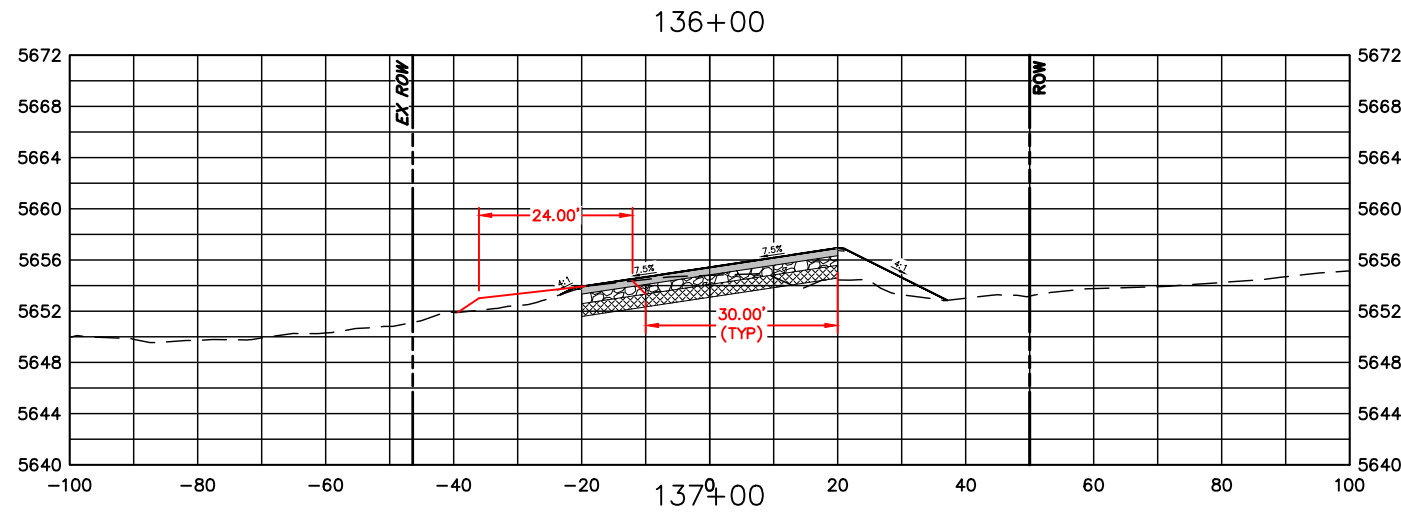


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CROSS SECTIONS
STATION 130+00 TO 135+00

PROJECT NO. 335
 LARIMER COUNTY ROAD 72
 SHEET NO. 109



COMPUTER INFORMATION	
CREATION DATE:	07/13/20
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FILE NAME:	1421-094-00 XS.DWG

REVISIONS	
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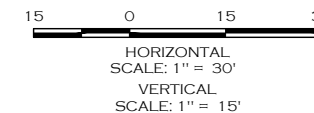
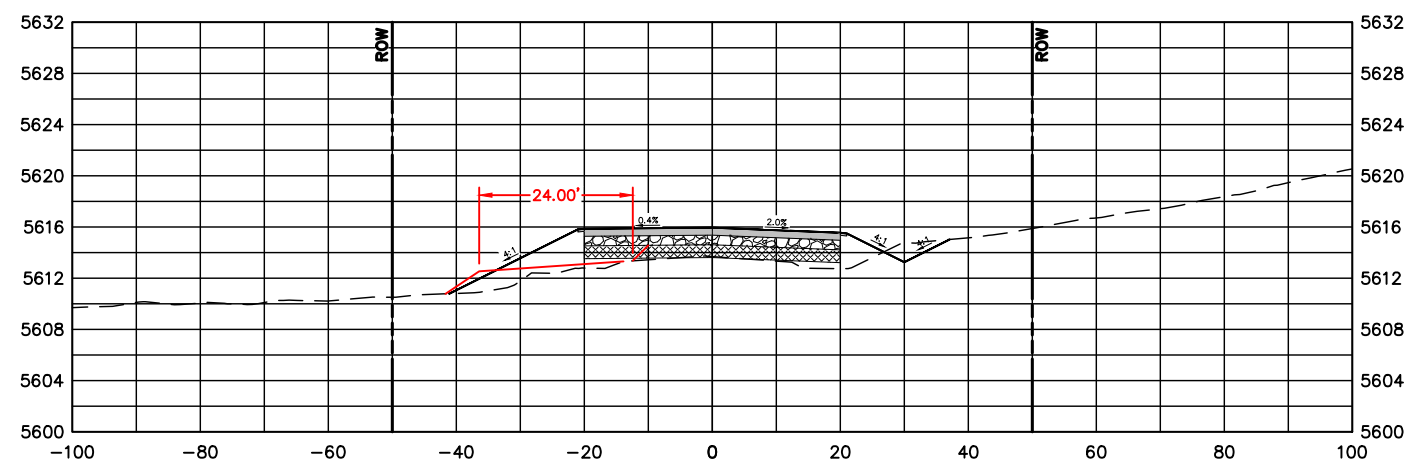
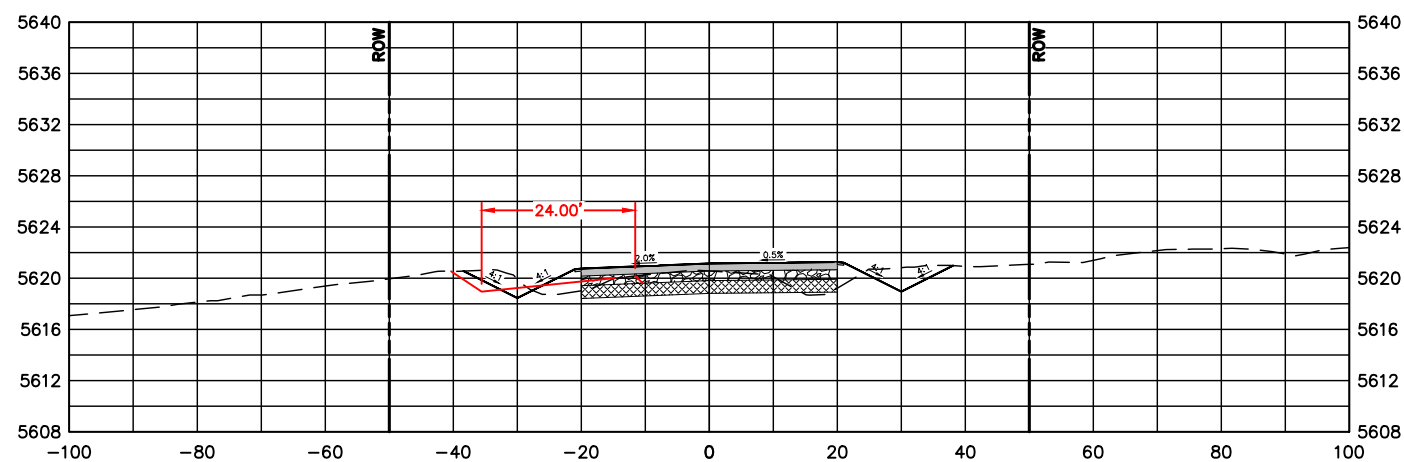
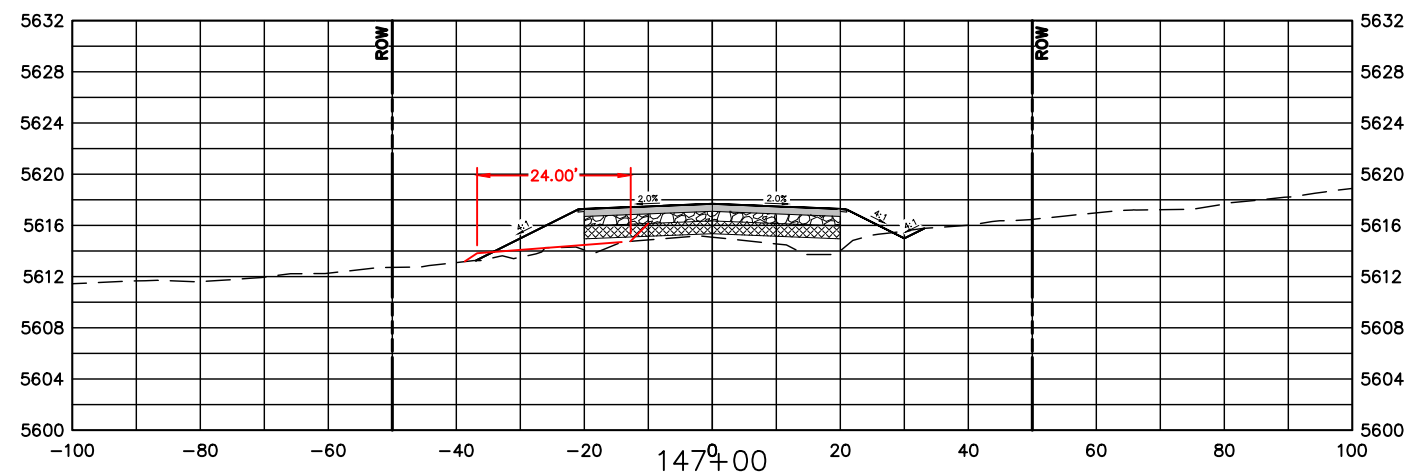
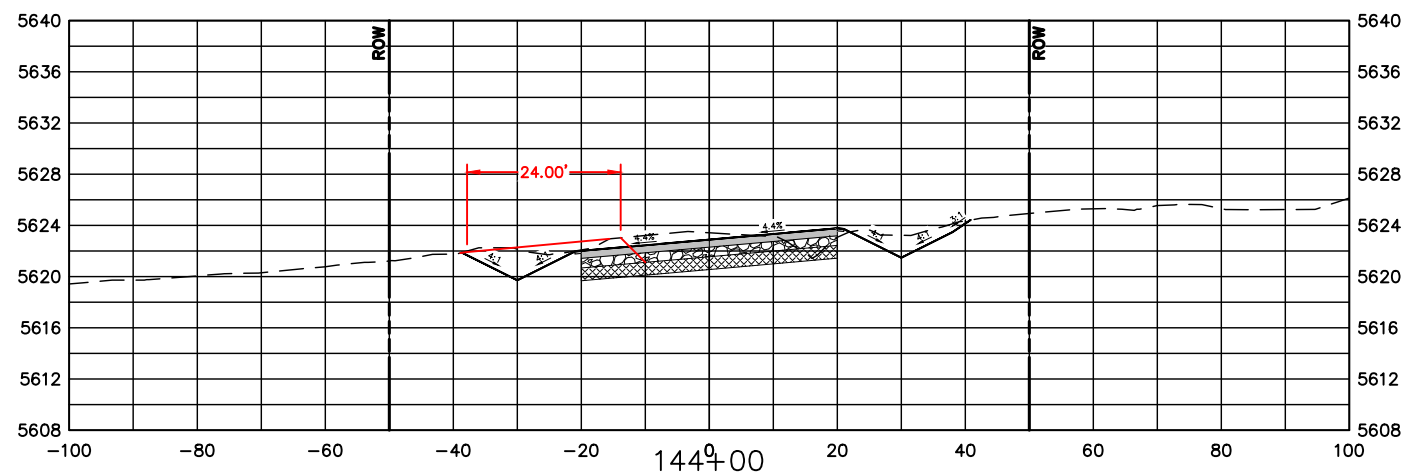
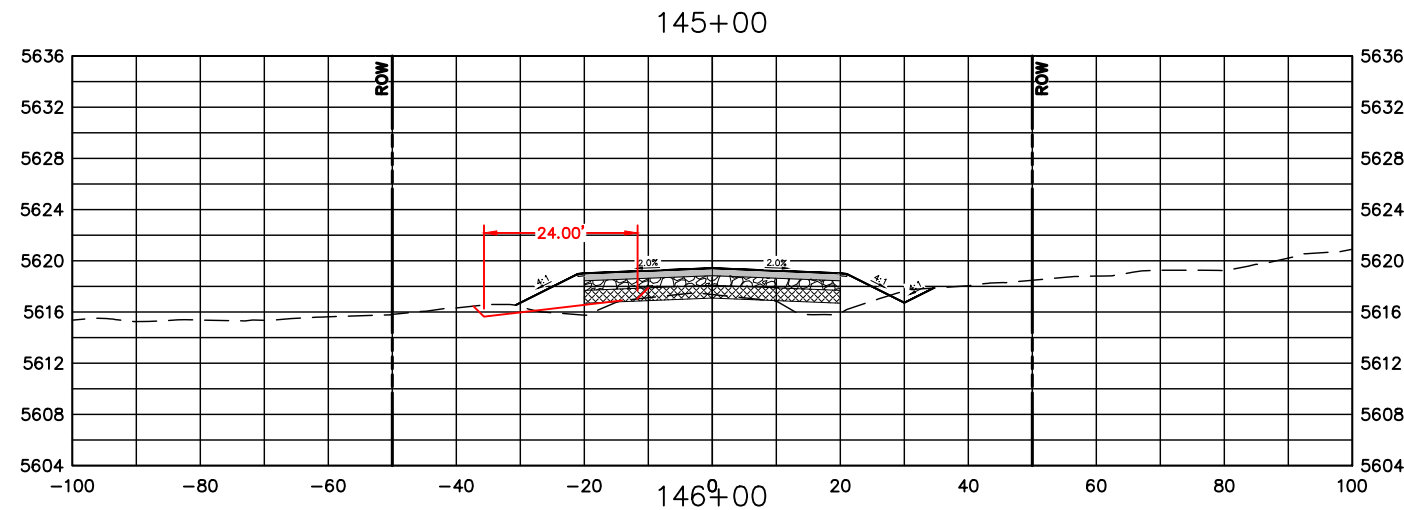
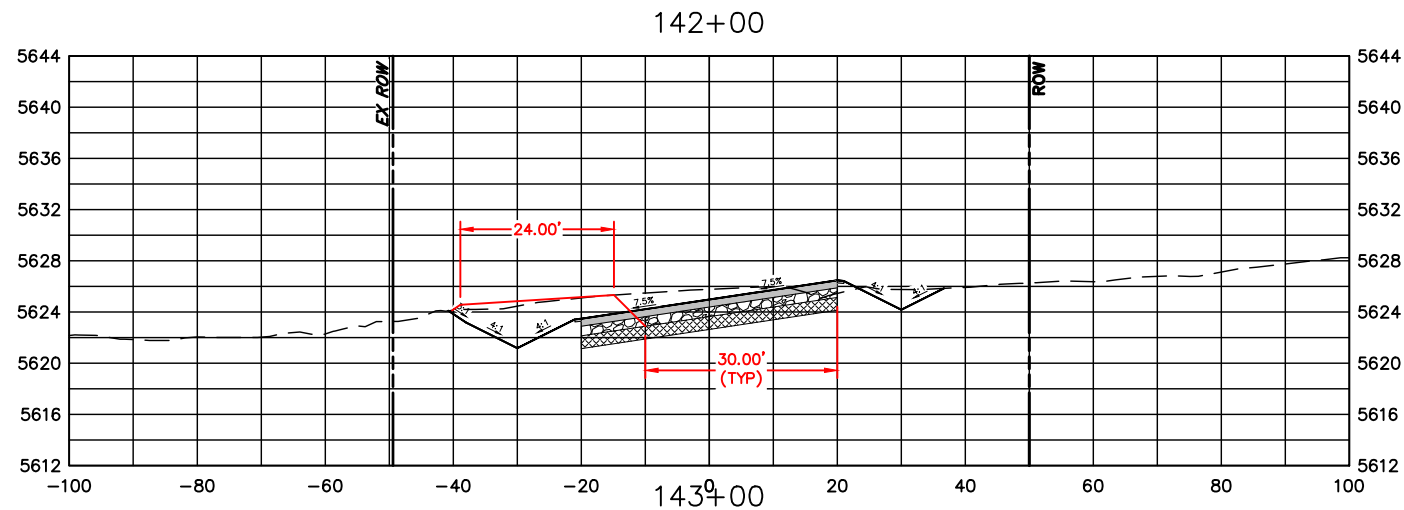


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**CROSS SECTIONS
 STATION 136+00 TO 141+00**

PROJECT NO. 335
LARIMER COUNTY ROAD 72
SHEET NO. 110



COMPUTER INFORMATION	
CREATION DATE:	07/13/20
MODIFICATION DATE:	02/01/21
FILE LOCATION:	INTEREST PROJECTS\2019 PROJECTS\1421-094-00 (LARIMER COUNTY ROAD 72)\DRAWINGS\ENGINEERING PLANS
FILE NAME:	1421-094-00 XS.DWG

REVISIONS	
(R-1)	
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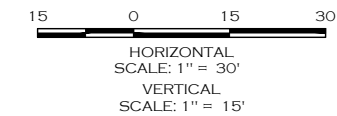
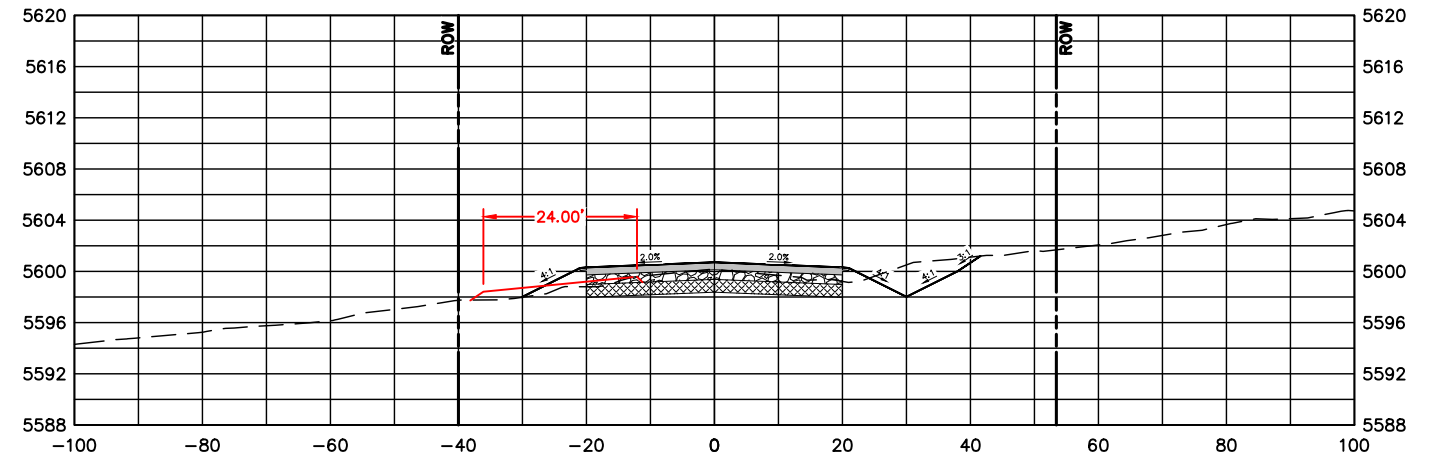
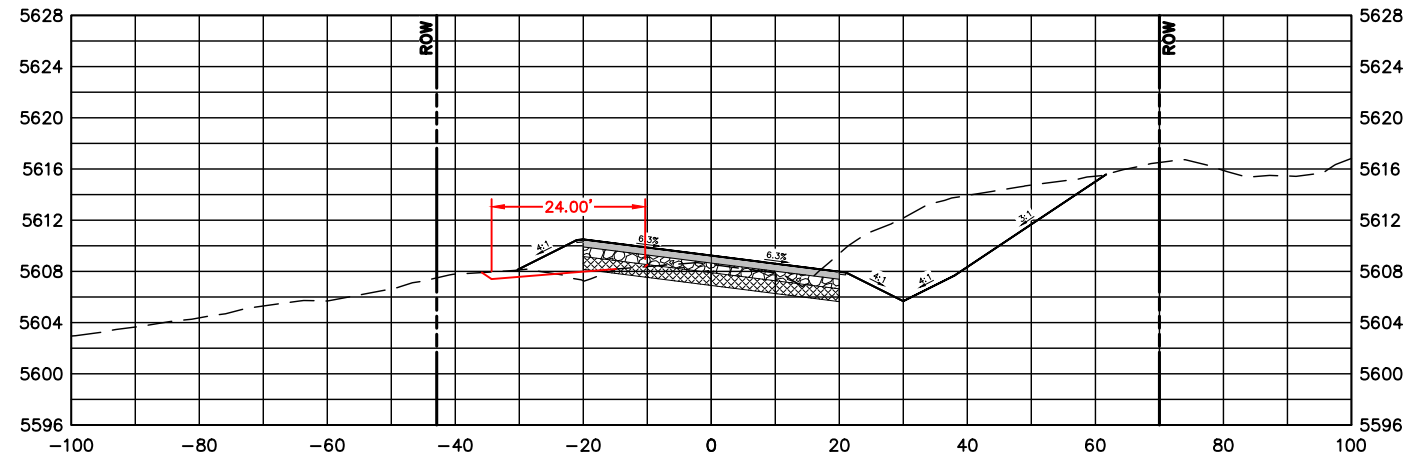
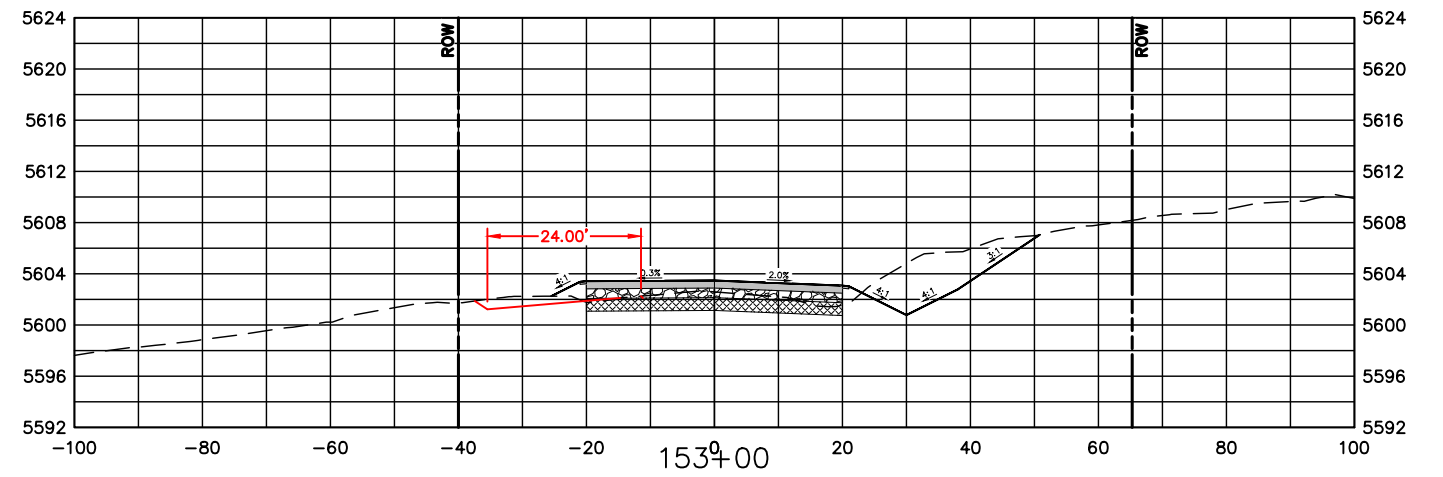
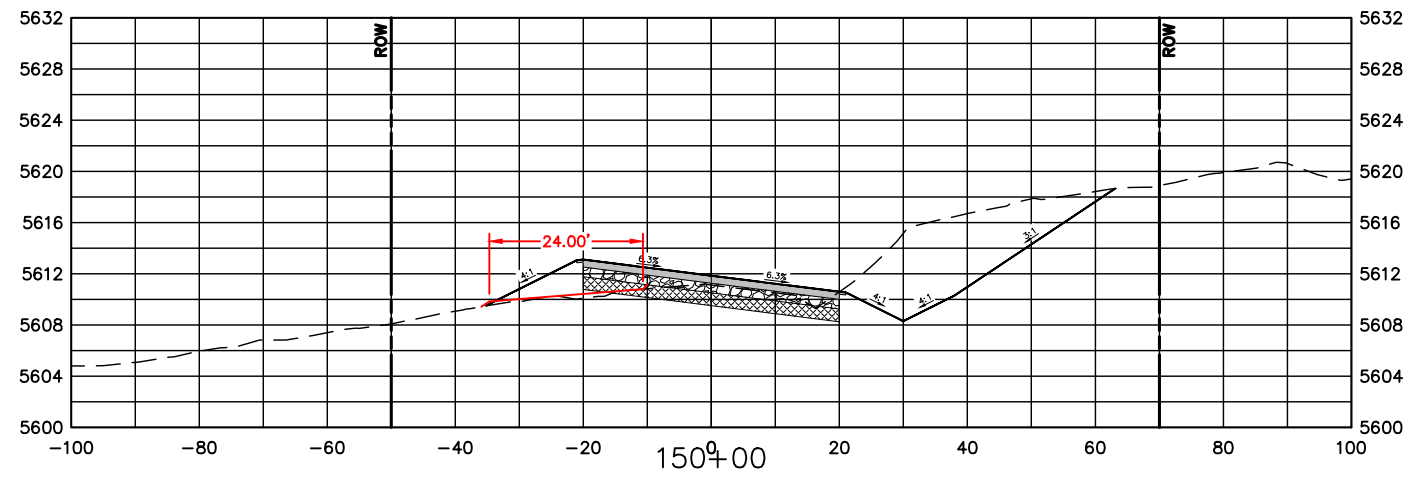
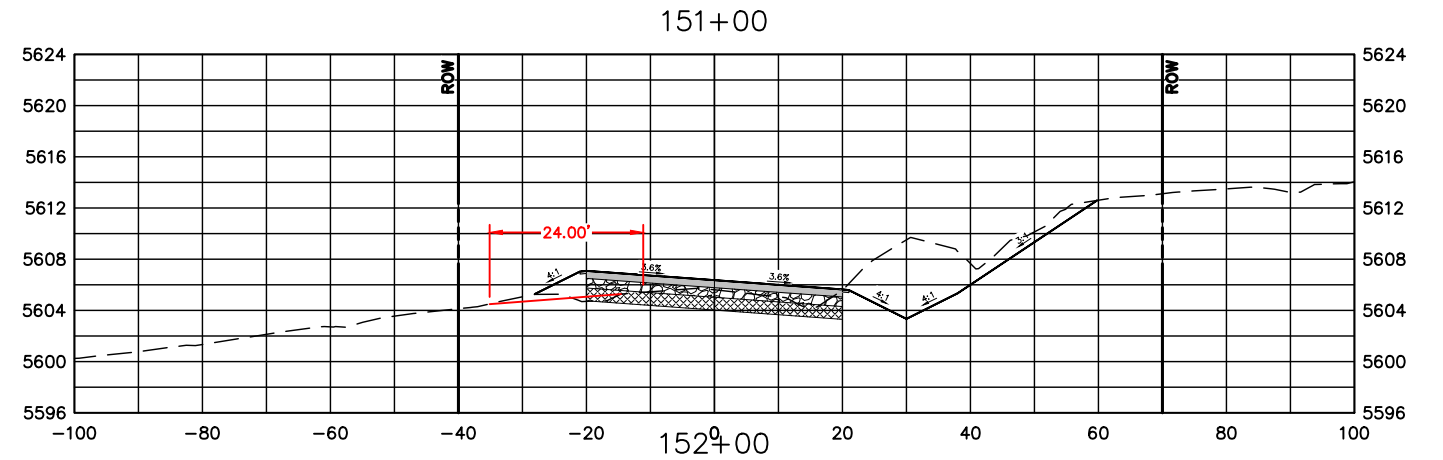
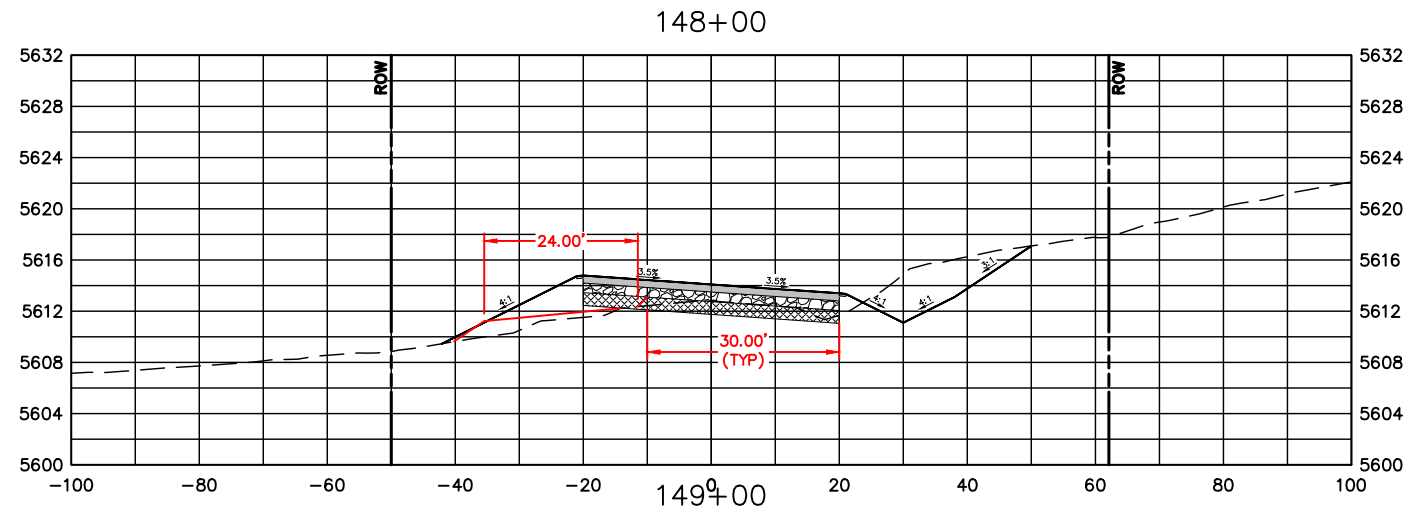


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AS CONSTRUCTED
NO REVISIONS:
REVISED:
VOID:

**CROSS SECTIONS
 STATION 142+00 TO 147+00**

PROJECT NO. 335
LARIMER COUNTY ROAD 72
SHEET NO. 111



COMPUTER INFORMATION

CREATION DATE: 07/13/20
 MODIFICATION DATE: 02/01/21
 FILE LOCATION: INTEREST PROJECTS\2019 PROJECTS\1421-094-00 (LARIMER COUNTY ROAD 72)\DRAWINGS\ENGINEERING PLANS
 FILE NAME: 1421-094-00 XS.DWG

REVISIONS

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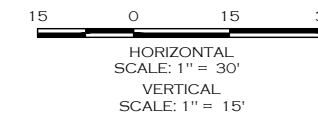
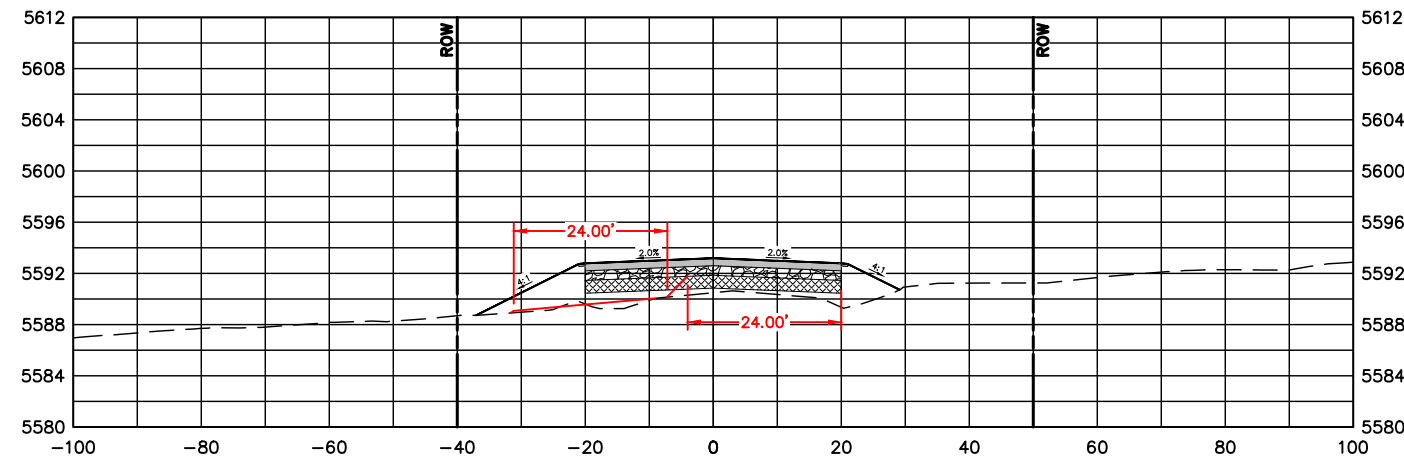
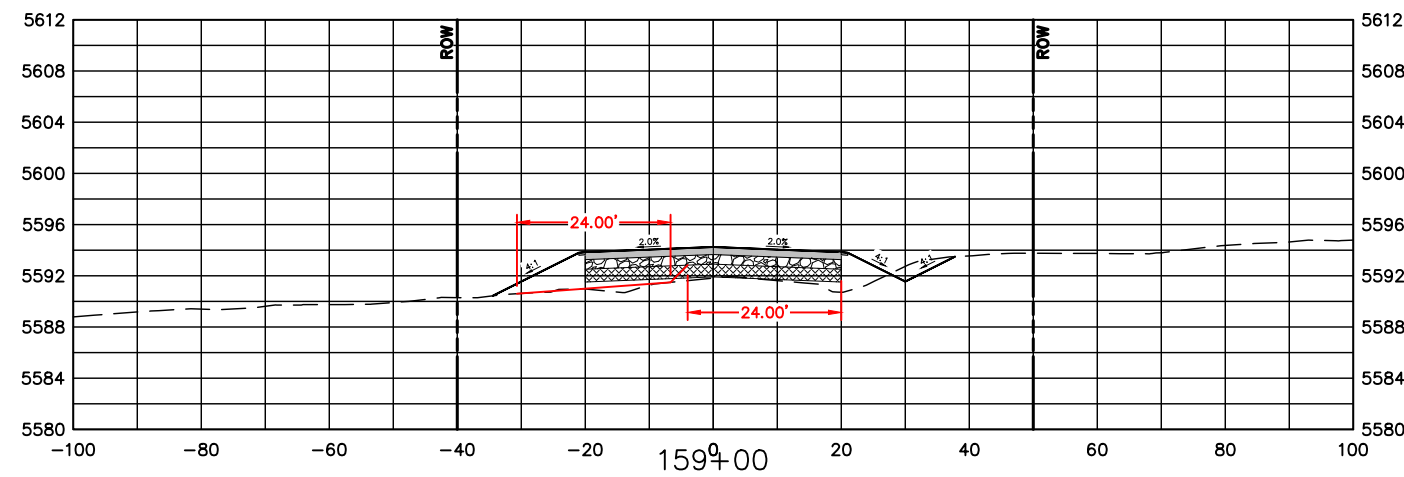
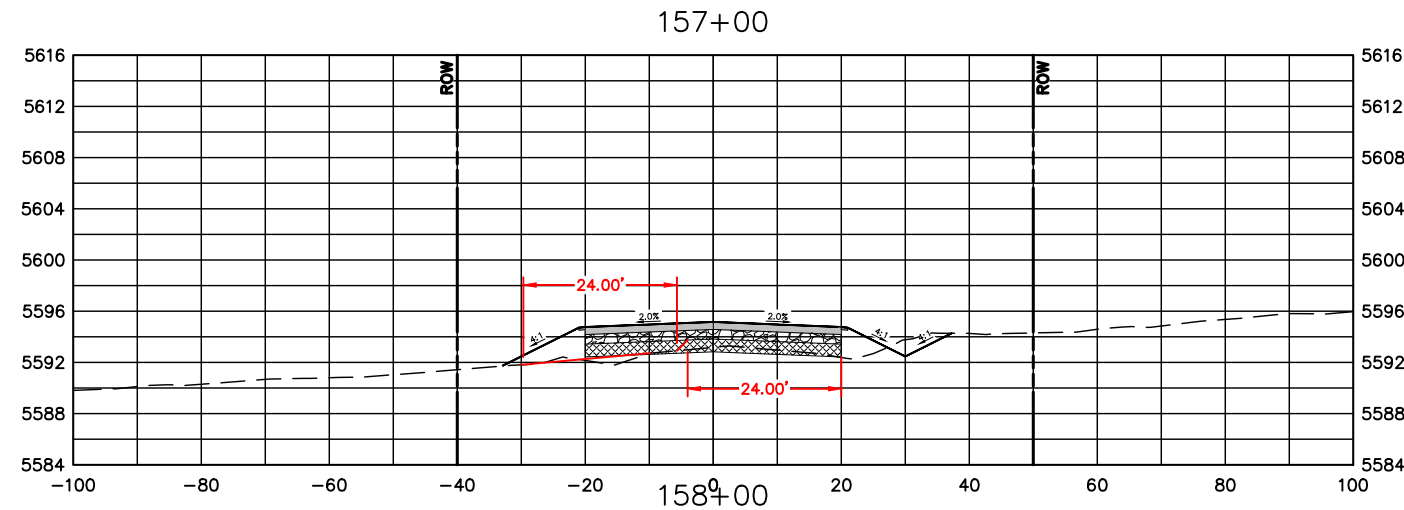
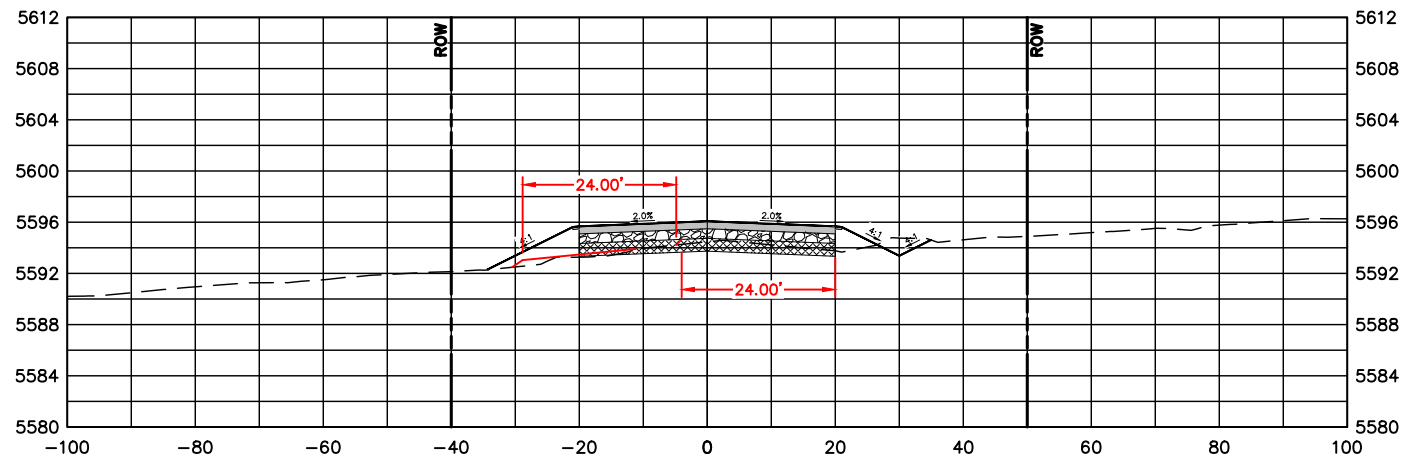
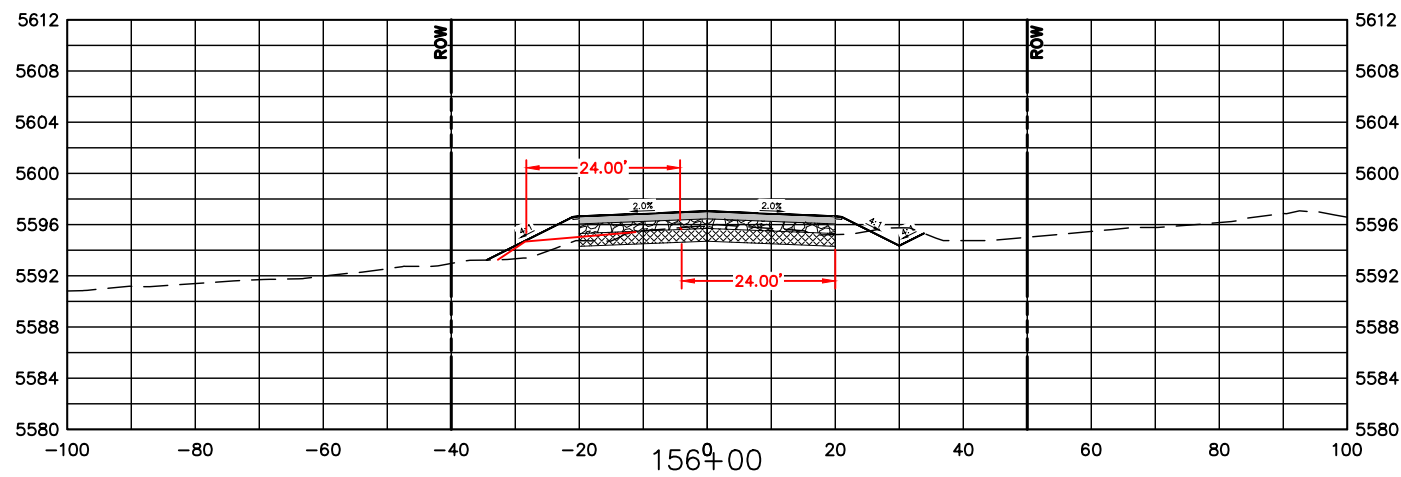
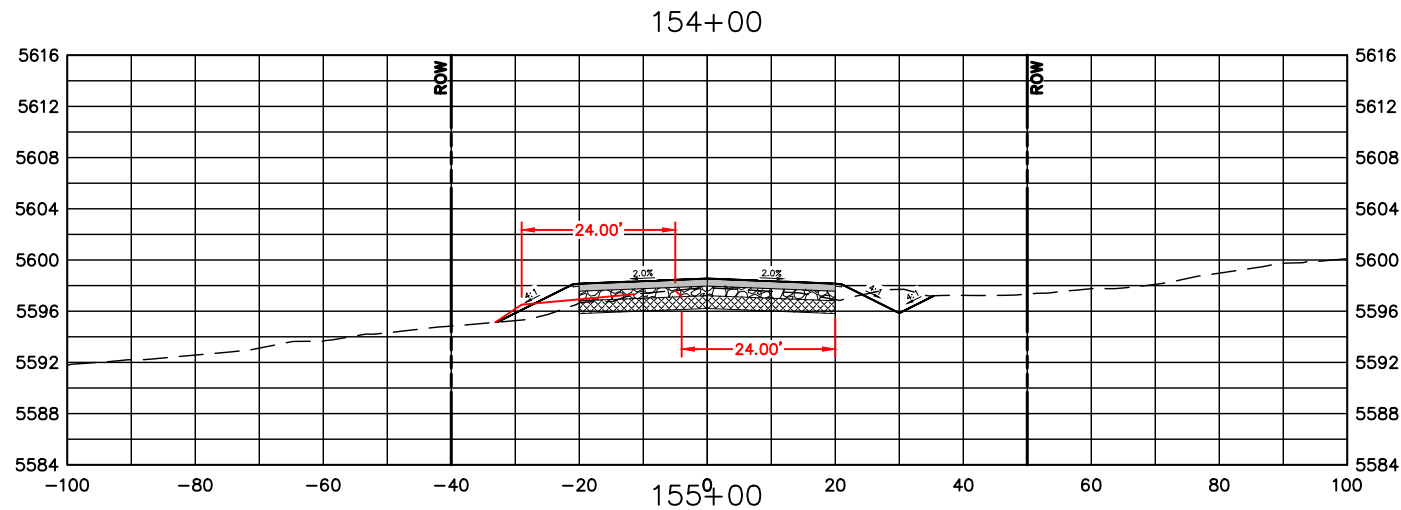
NO REVISIONS:
 REVISED:
 VOID:

**CROSS SECTIONS
 STATION 148+00 TO 153+00**

PROJECT NO. 335

LARIMER COUNTY ROAD 72

SHEET NO. 112



COMPUTER INFORMATION	
CREATION DATE:	07/13/20
MODIFICATION DATE:	02/01/21
FILE LOCATION:	INTEREST PROJECTS\2019 PROJECTS\1421-094-00 (LARIMER COUNTY ROAD 72)\DRAWINGS\ENGINEERING PLANS
FILE NAME:	1421-094-00 XS.DWG

REVISIONS	
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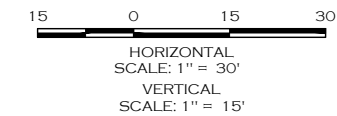
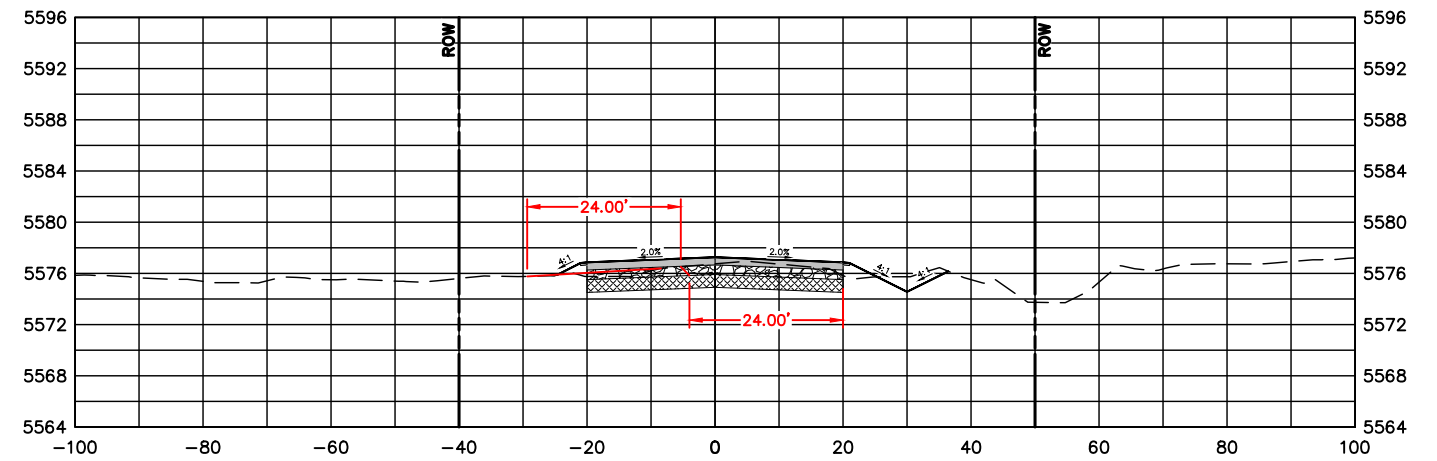
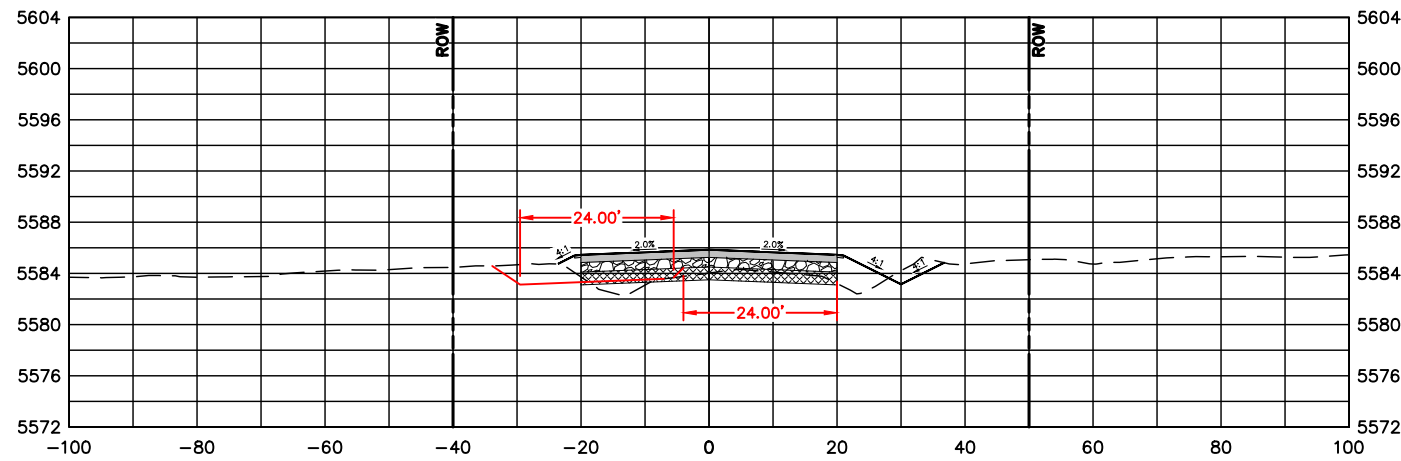
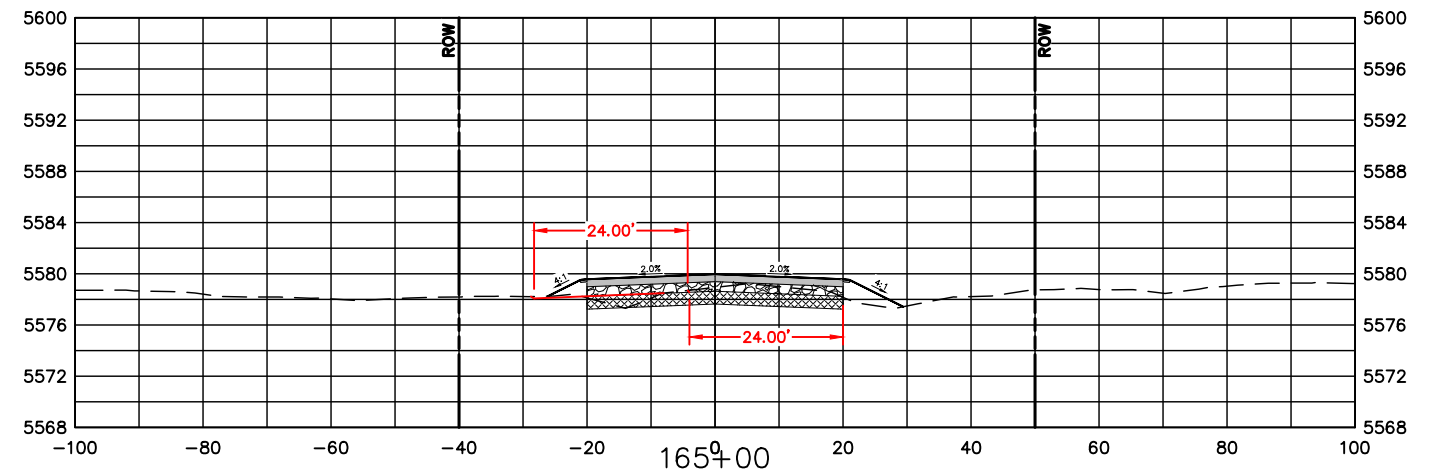
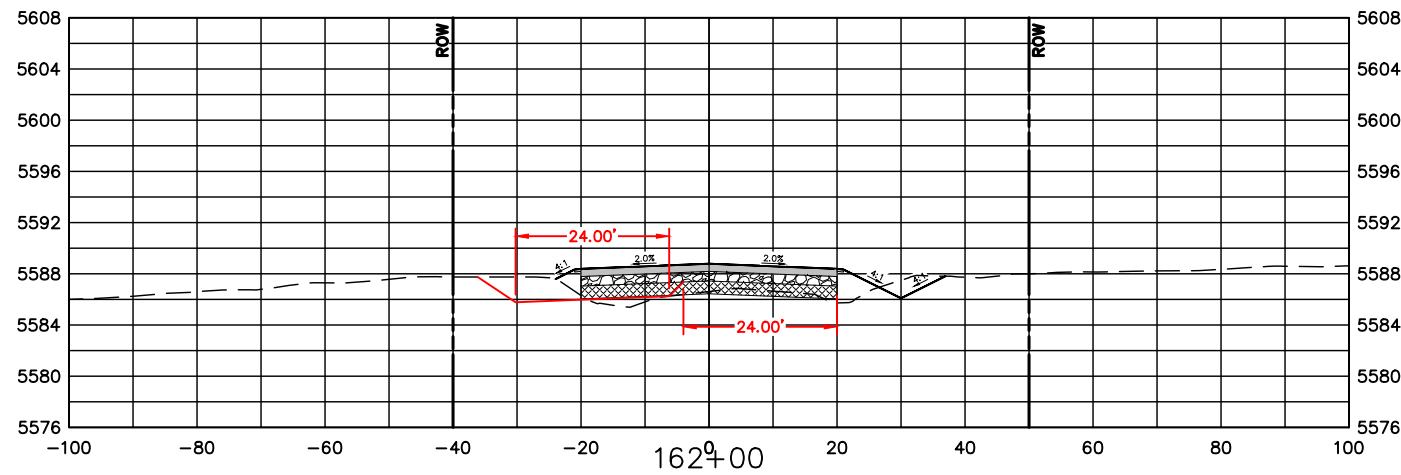
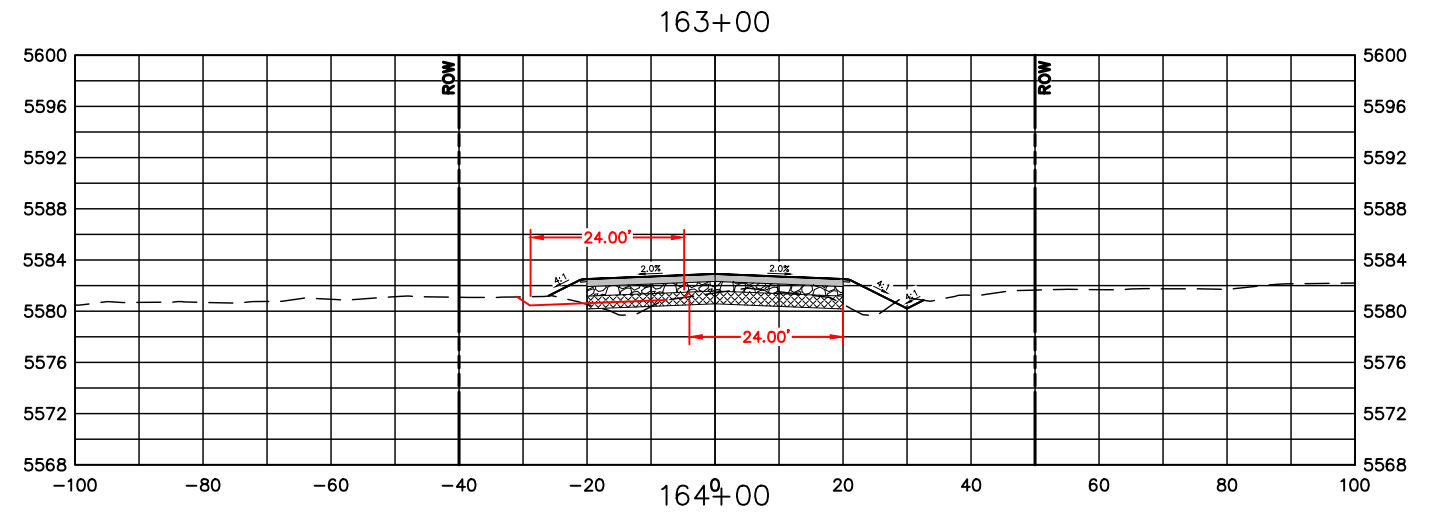
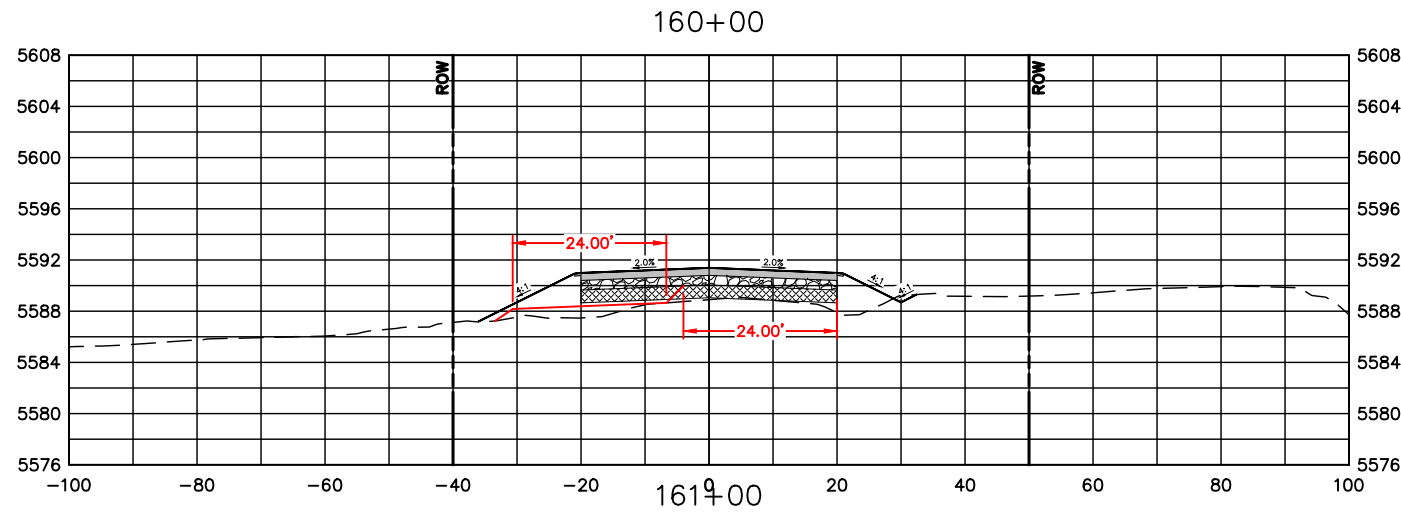


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**CROSS SECTIONS
 STATION 154+00 TO 159+00**

PROJECT NO. 335
LARIMER COUNTY ROAD 72
SHEET NO. 113



COMPUTER INFORMATION	
CREATION DATE:	07/13/20
MODIFICATION DATE:	02/01/21
FILE LOCATION:	INTEREST PROJECTS\2019 PROJECTS\1421-094-00 (LARIMER COUNTY ROAD 72)\DRAWINGS\ENGINEERING PLANS
FILE NAME:	1421-094-00 XS.DWG

REVISIONS	
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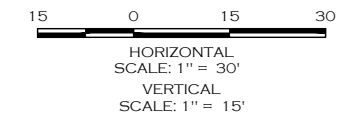
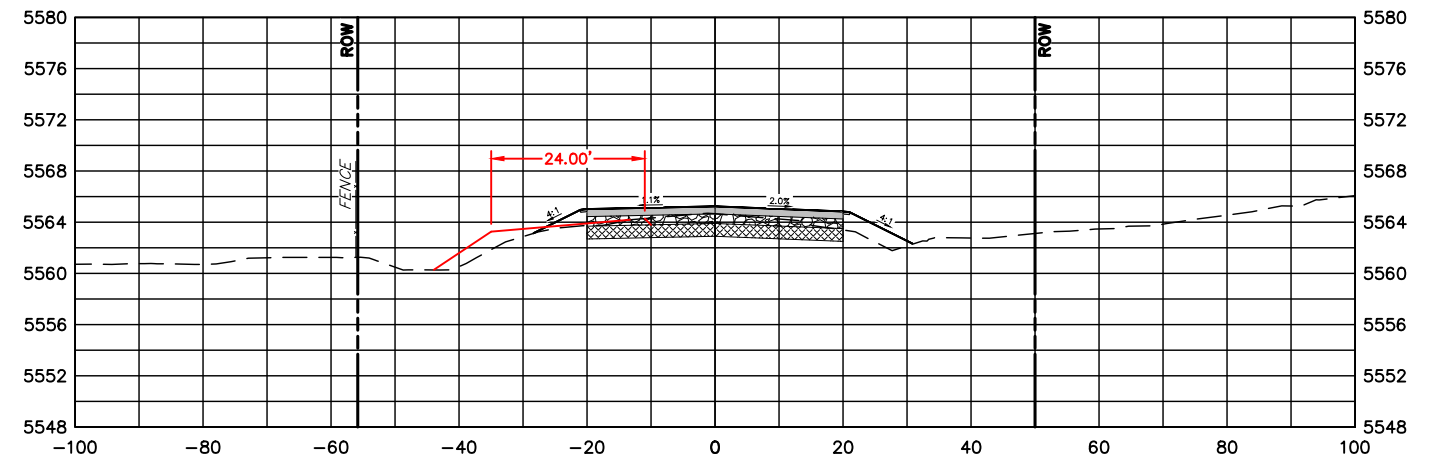
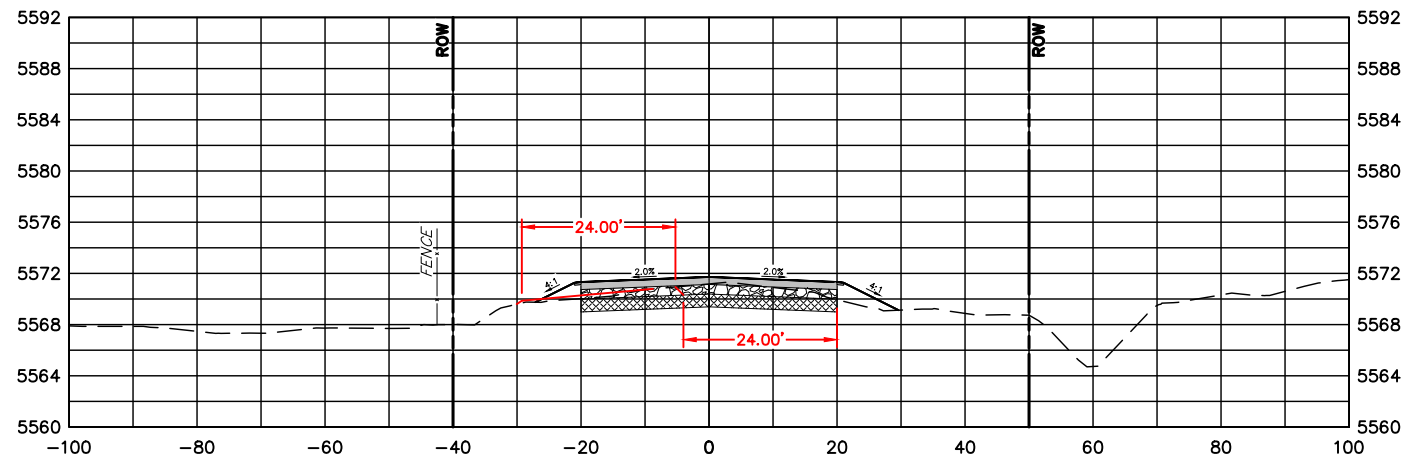
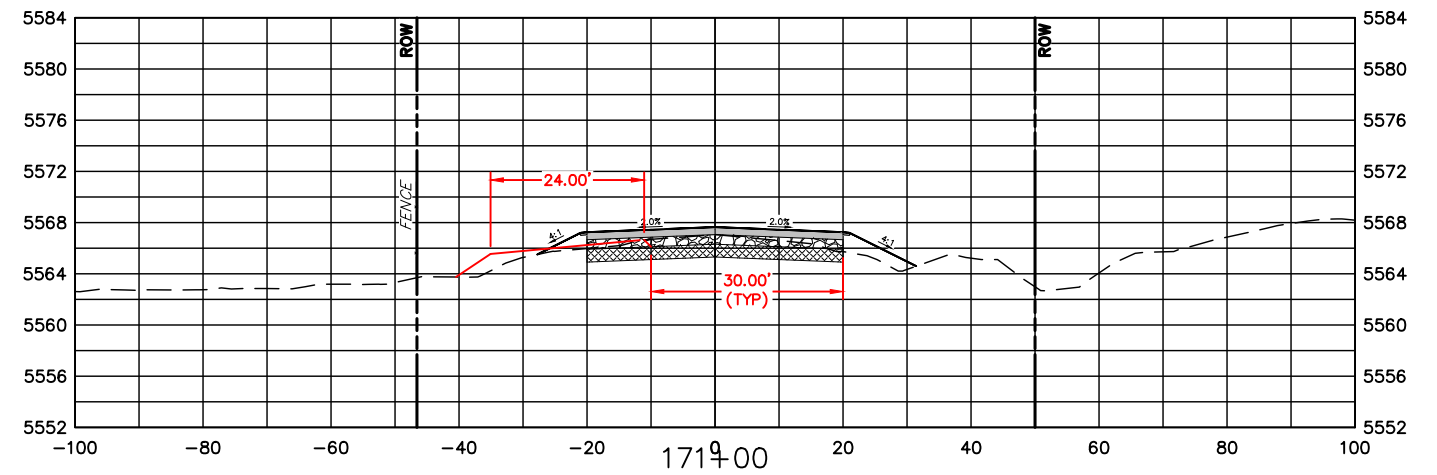
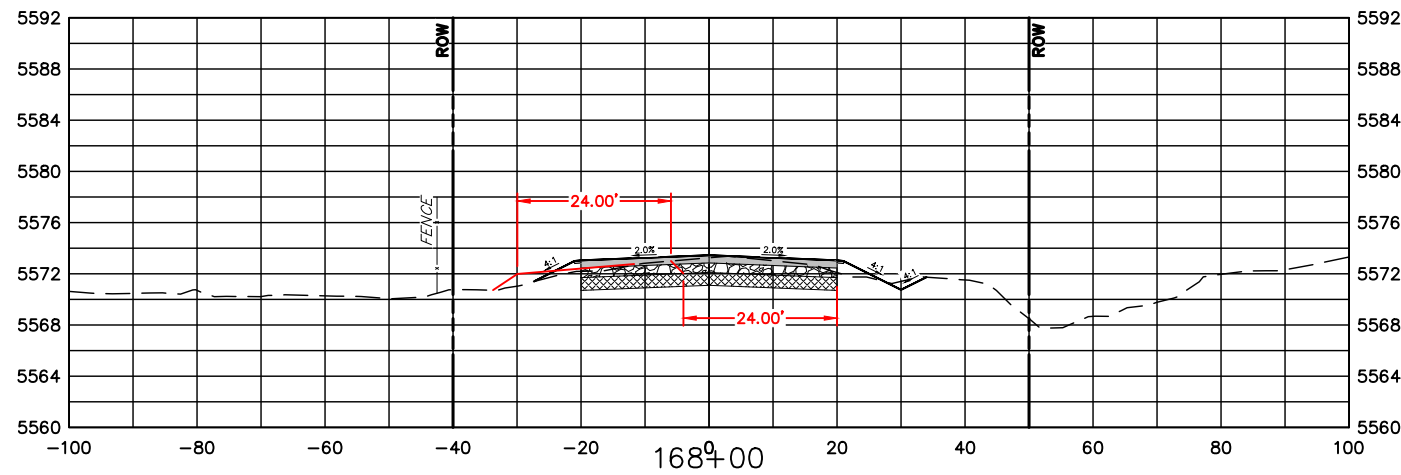
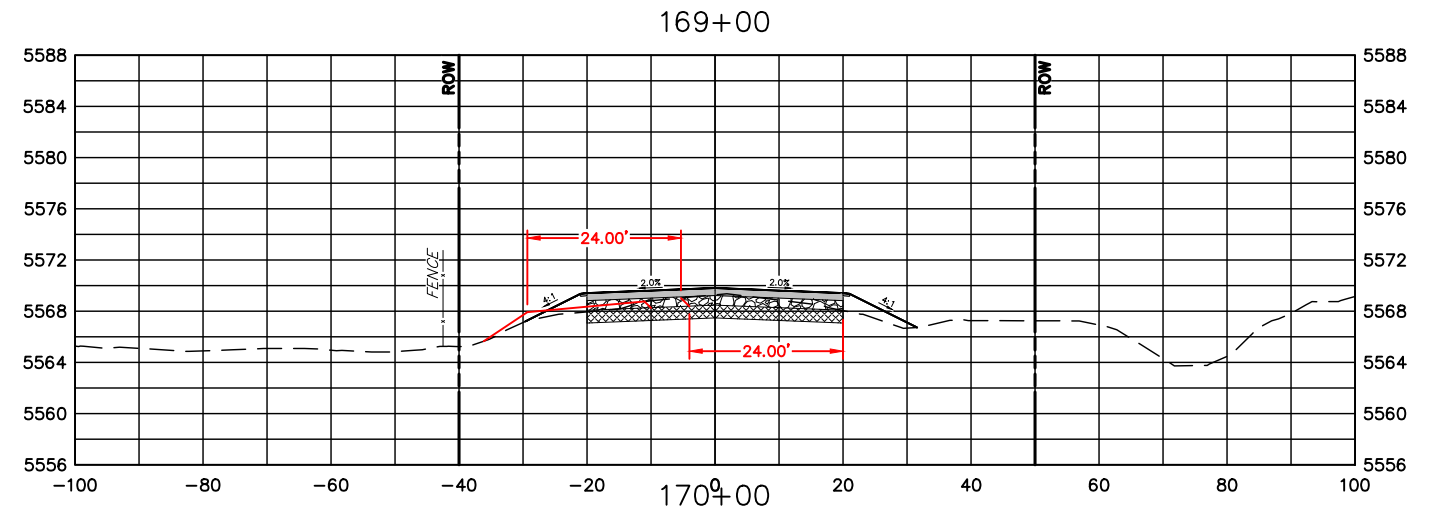
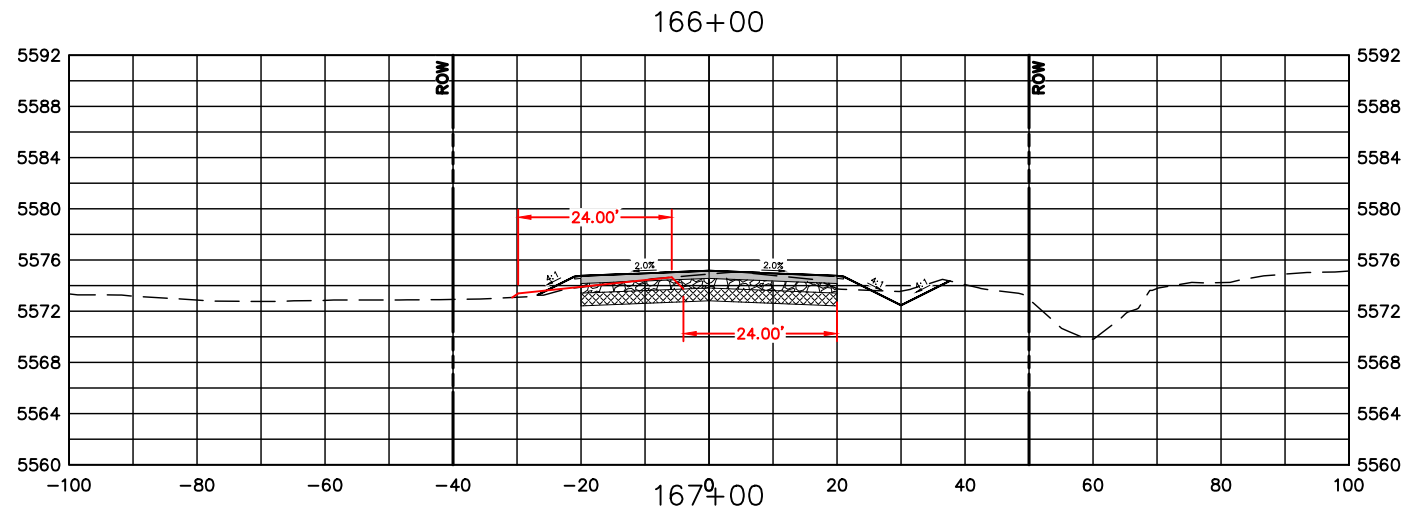


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VOID:

**CROSS SECTIONS
 STATION 160+00 TO 165+00**

PROJECT NO. 335
LARIMER COUNTY ROAD 72
SHEET NO. 114



COMPUTER INFORMATION	
CREATION DATE:	07/13/20
MODIFICATION DATE:	02/01/21
FILE LOCATION:	INTEREST PROJECTS\2019 PROJECTS\1421-094-00 (LARIMER COUNTY ROAD 72)\DRAWINGS\ENGINEERING PLANS
FILE NAME:	1421-094-00 XS.DWG

REVISIONS	
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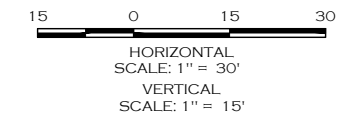
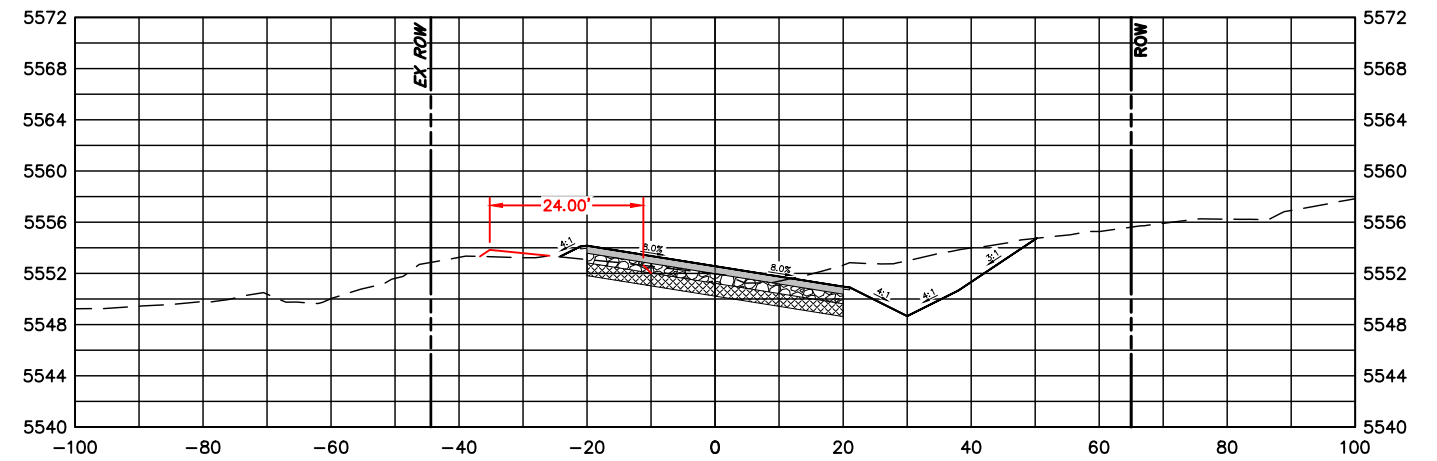
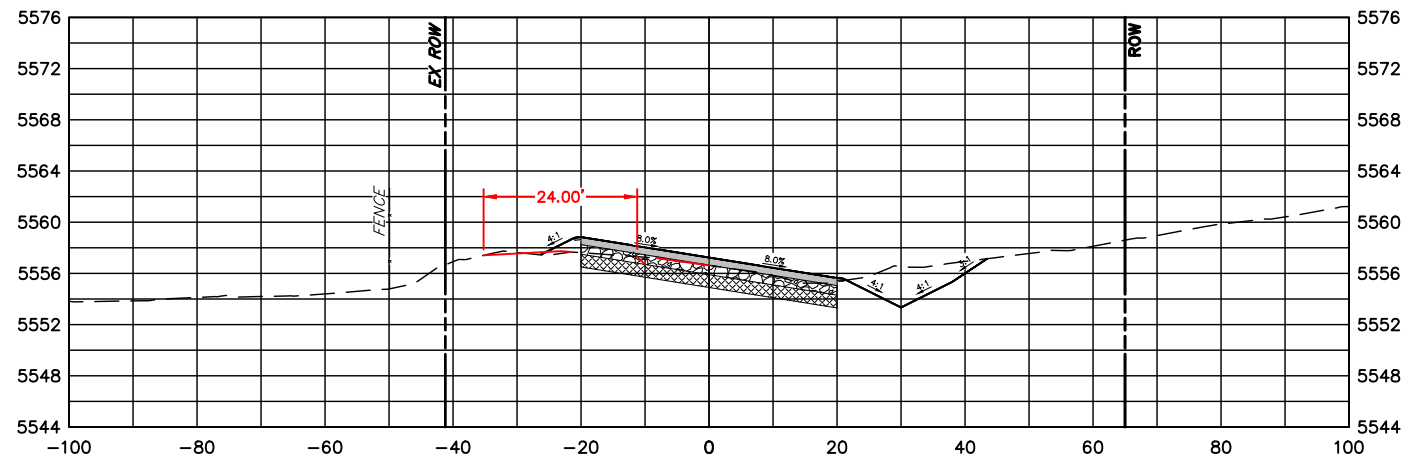
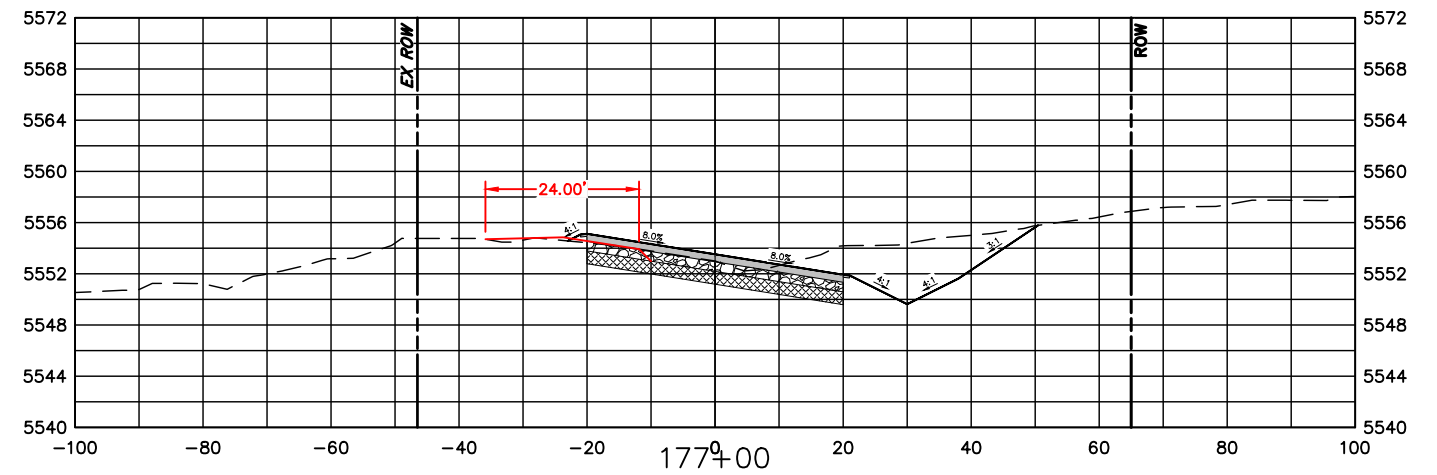
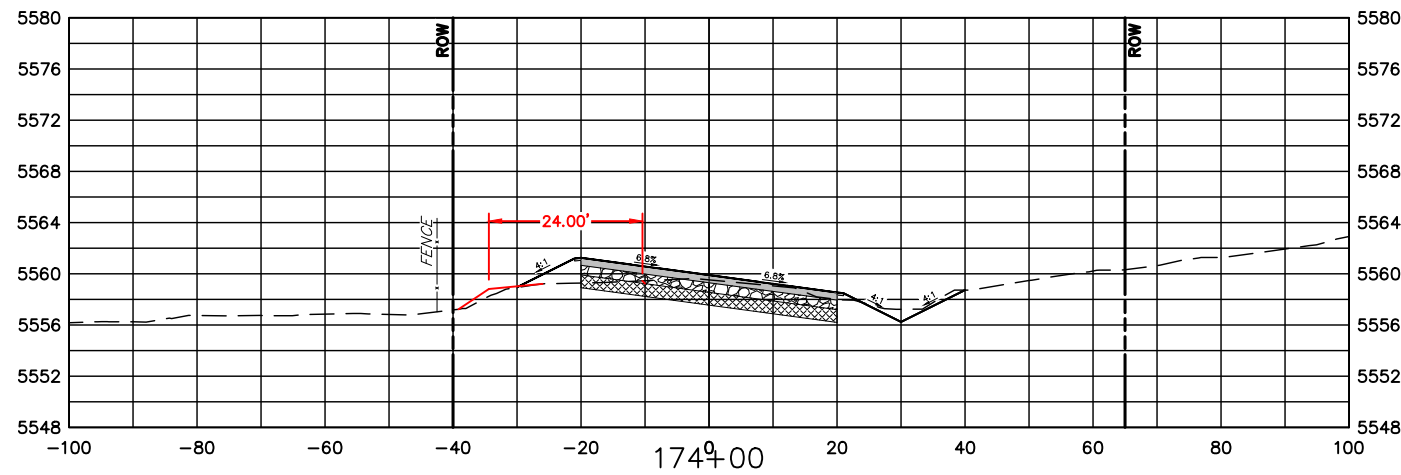
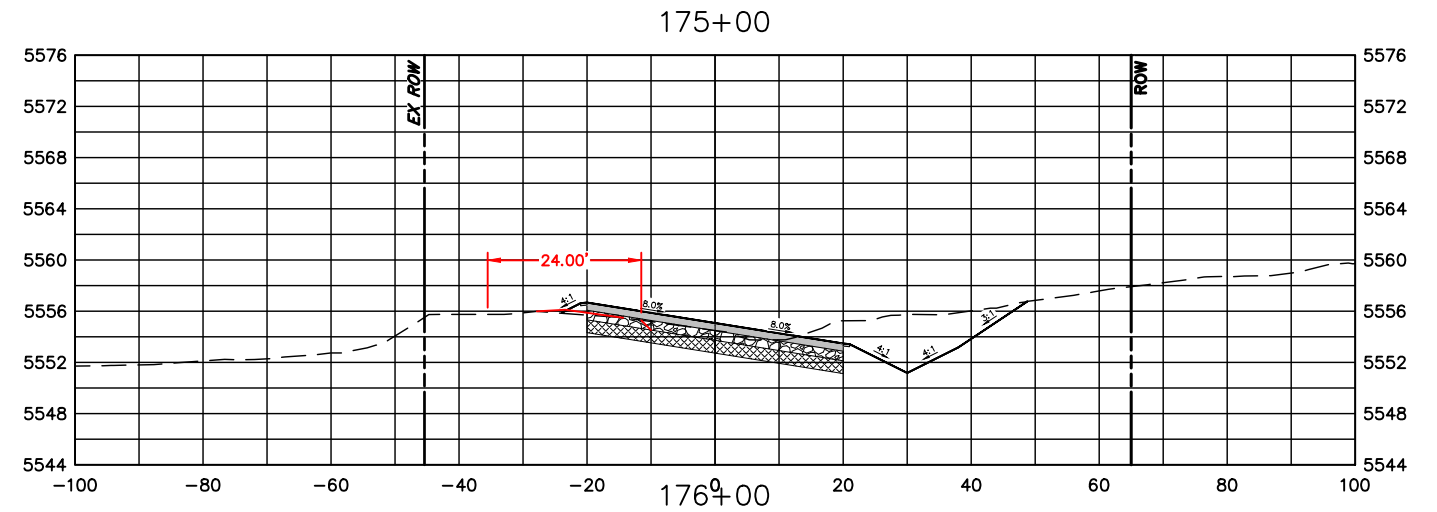
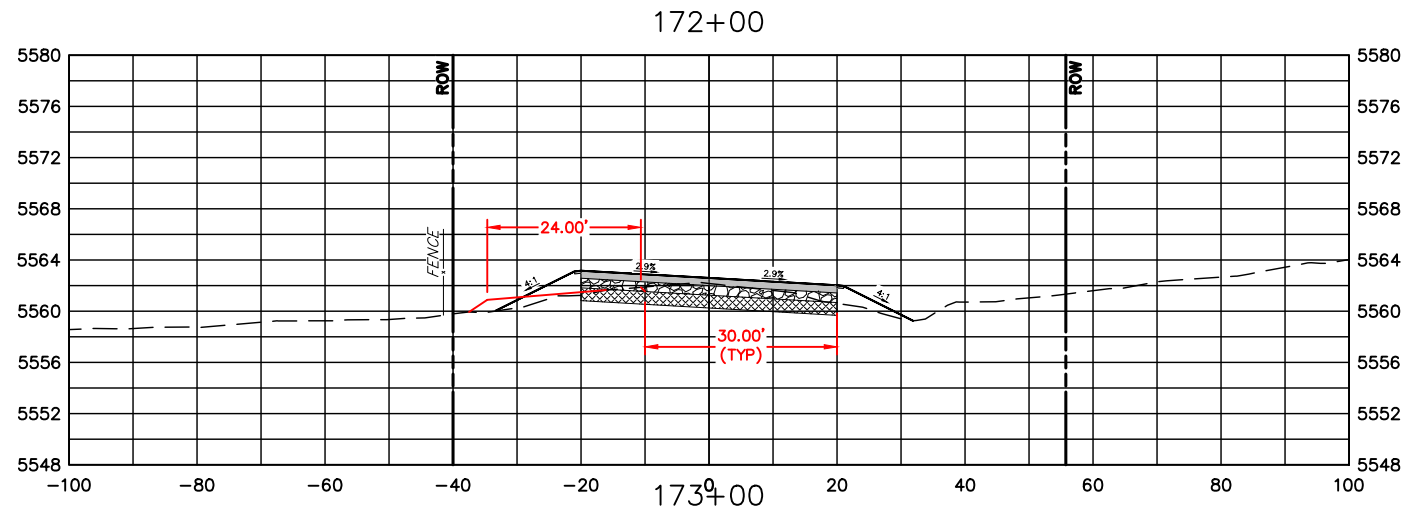


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CROSS SECTIONS
STATION 166+00 TO 171+00

PROJECT NO. 335
LARIMER COUNTY ROAD 72
SHEET NO. 115



COMPUTER INFORMATION	
CREATION DATE:	07/13/20
MODIFICATION DATE:	02/01/21
FILE LOCATION:	INTEREST PROJECTS\2019 PROJECTS\1421-094-00 (LARIMER COUNTY ROAD 72)\DRAWINGS\ENGINEERING PLANS
FILE NAME:	1421-094-00 XS.DWG

REVISIONS	
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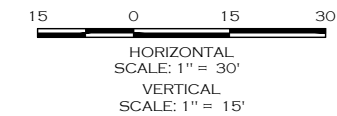
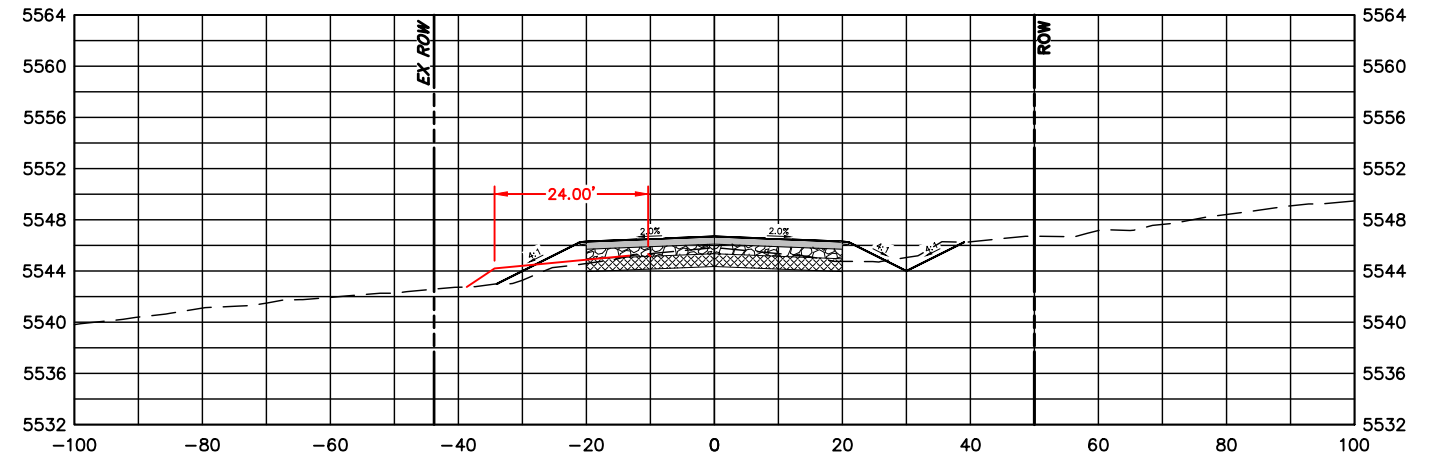
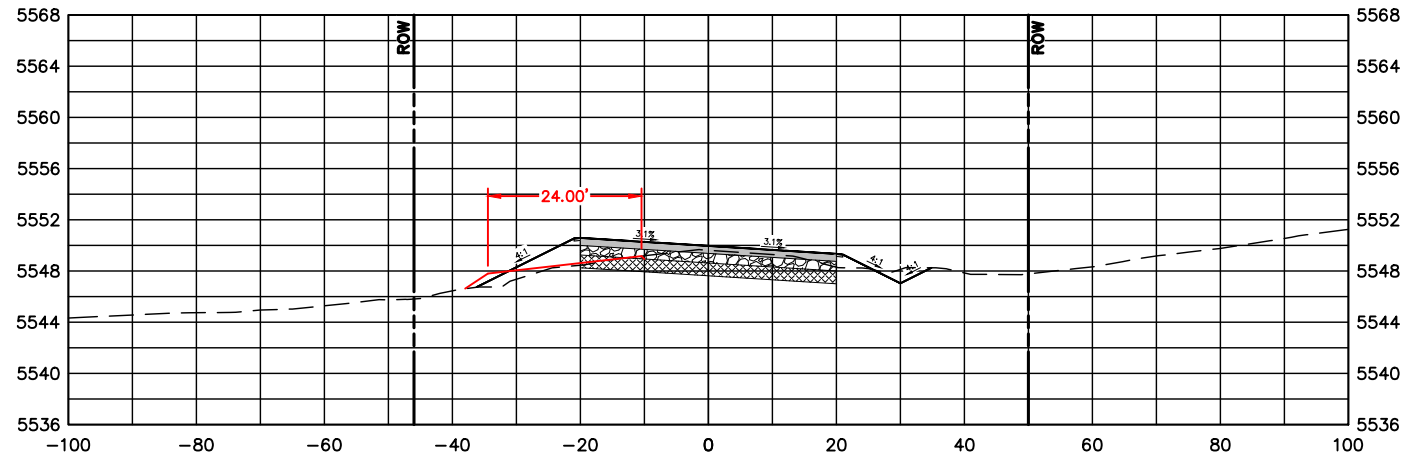
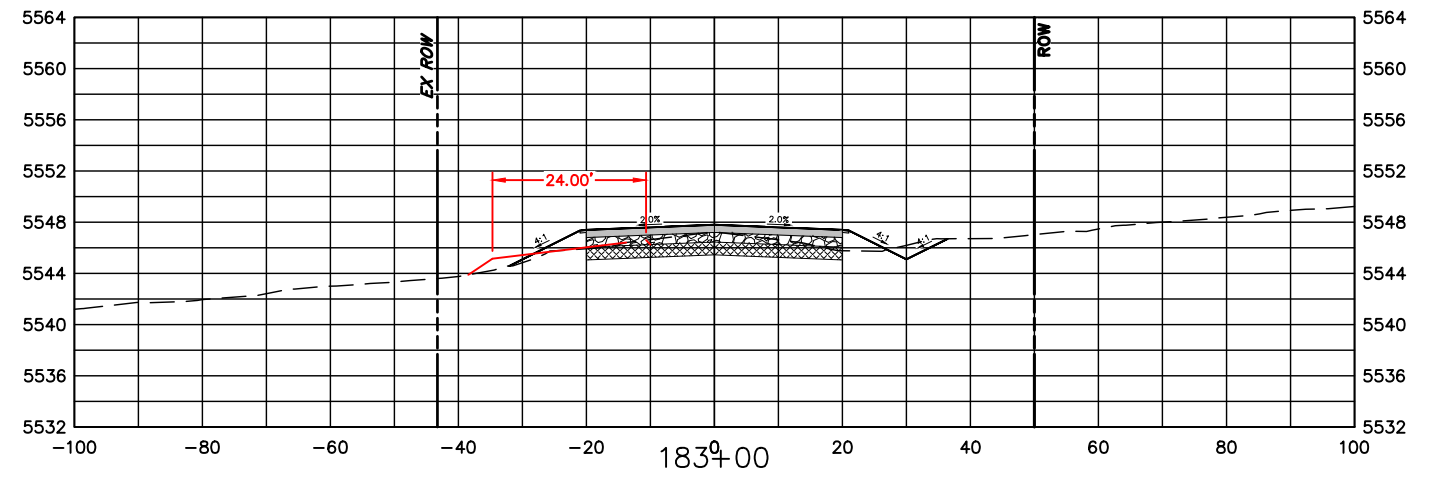
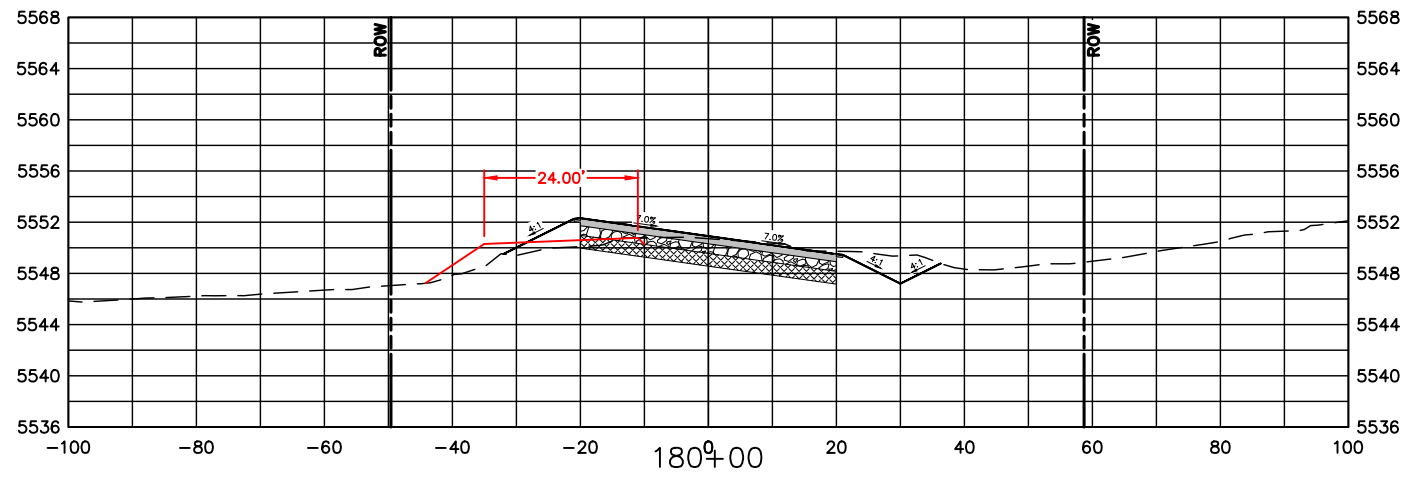
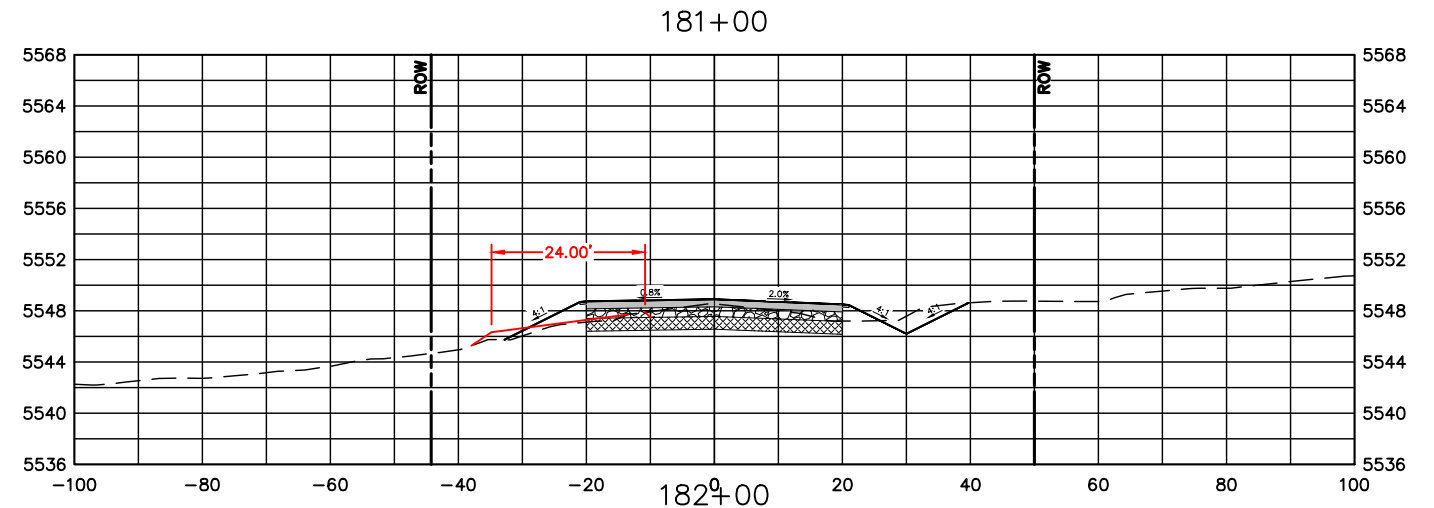
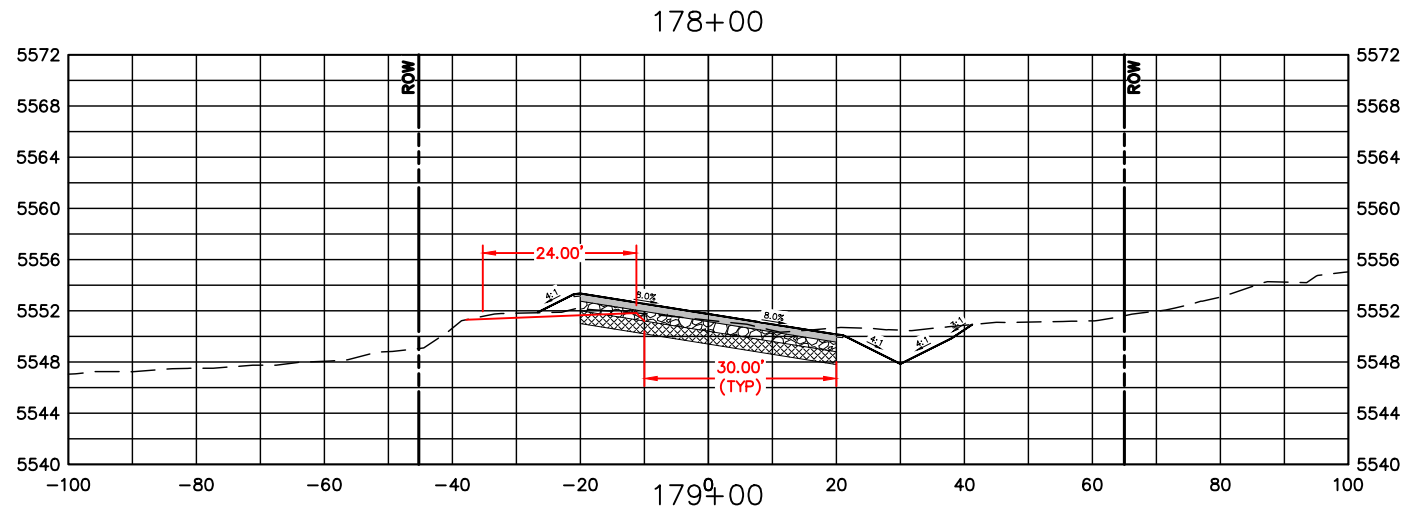


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CROSS SECTIONS
STATION 172+00 TO 177+00

PROJECT NO. 335
LARIMER COUNTY ROAD 72
SHEET NO. 116



COMPUTER INFORMATION	
CREATION DATE:	07/13/20
MODIFICATION DATE:	02/01/21
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FILE NAME:	1421-094-00 XS.DWG

REVISIONS	
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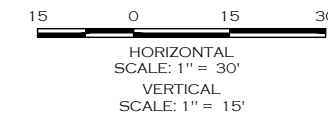
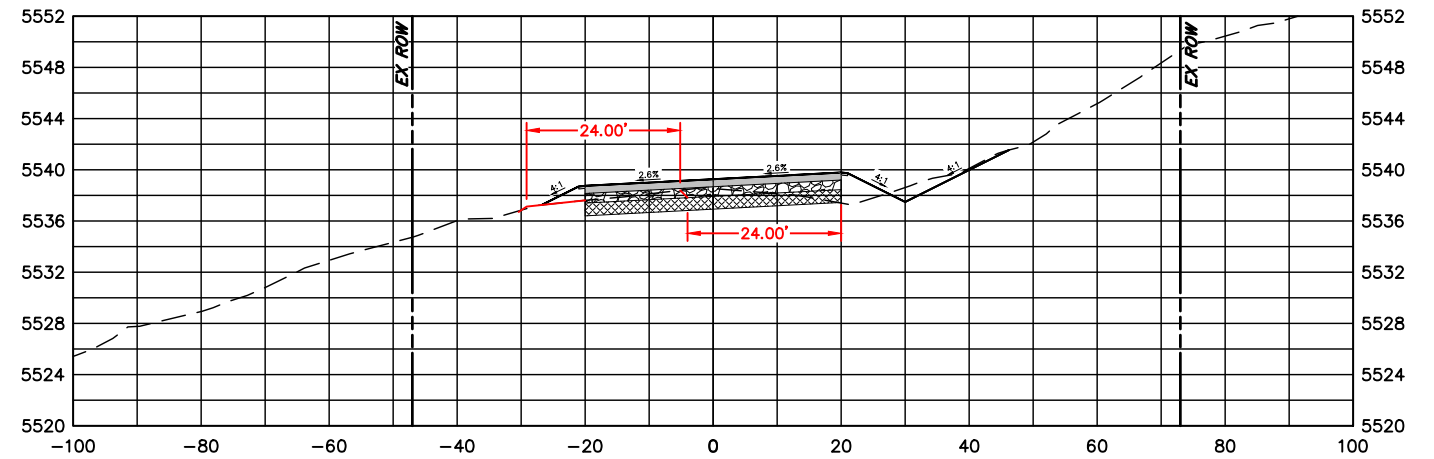
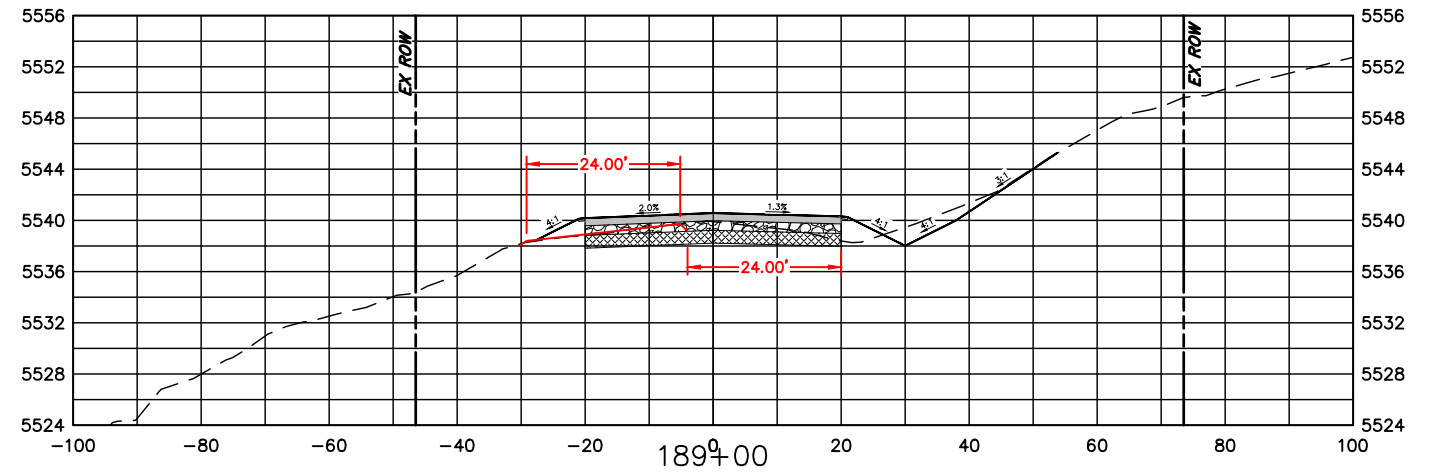
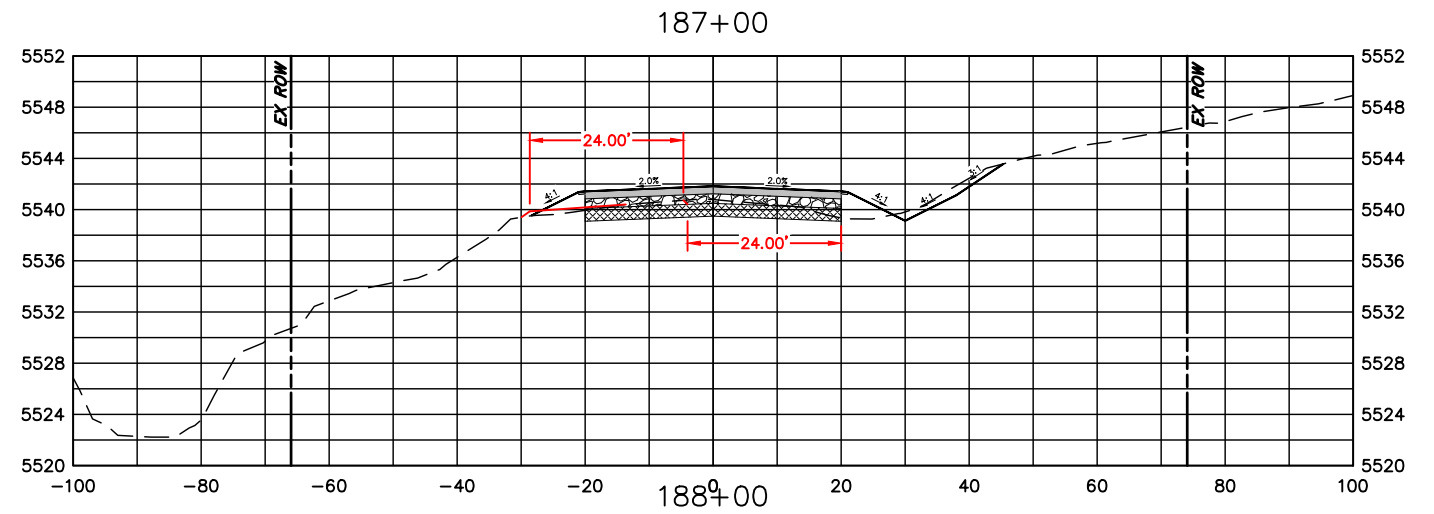
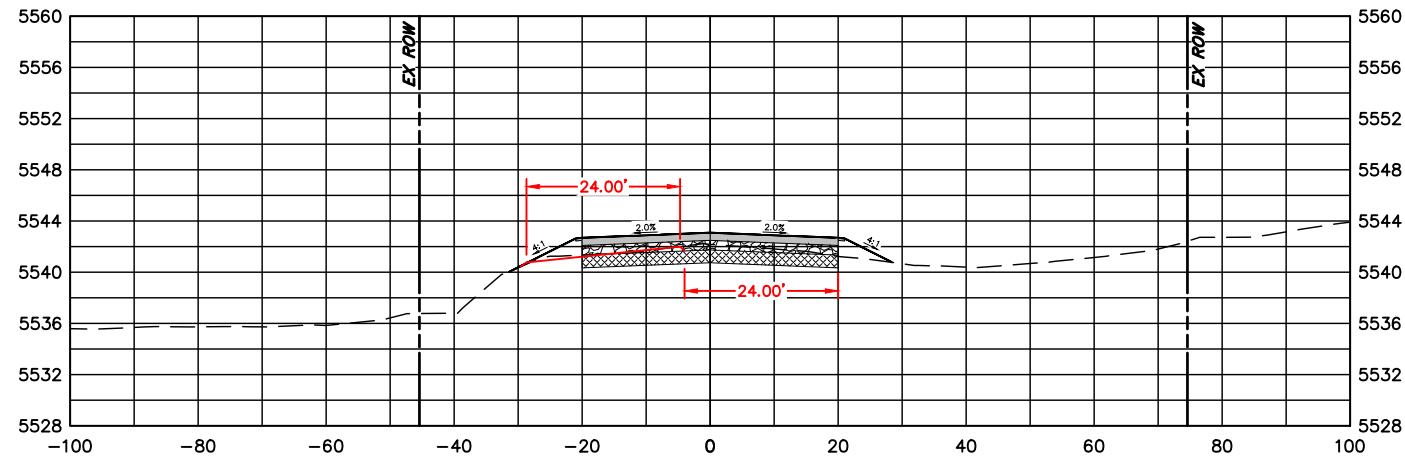
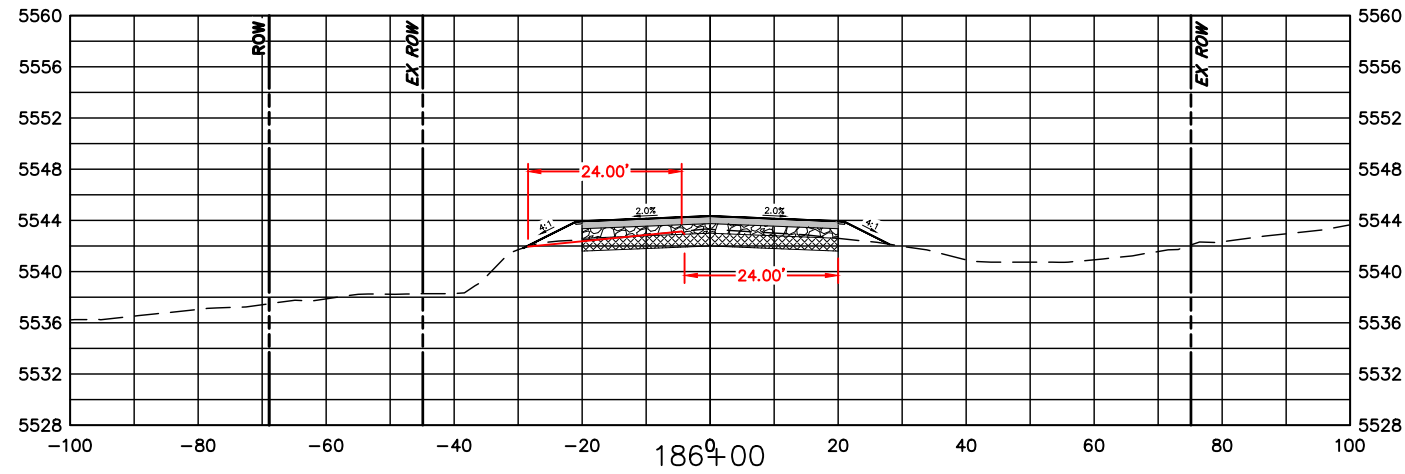
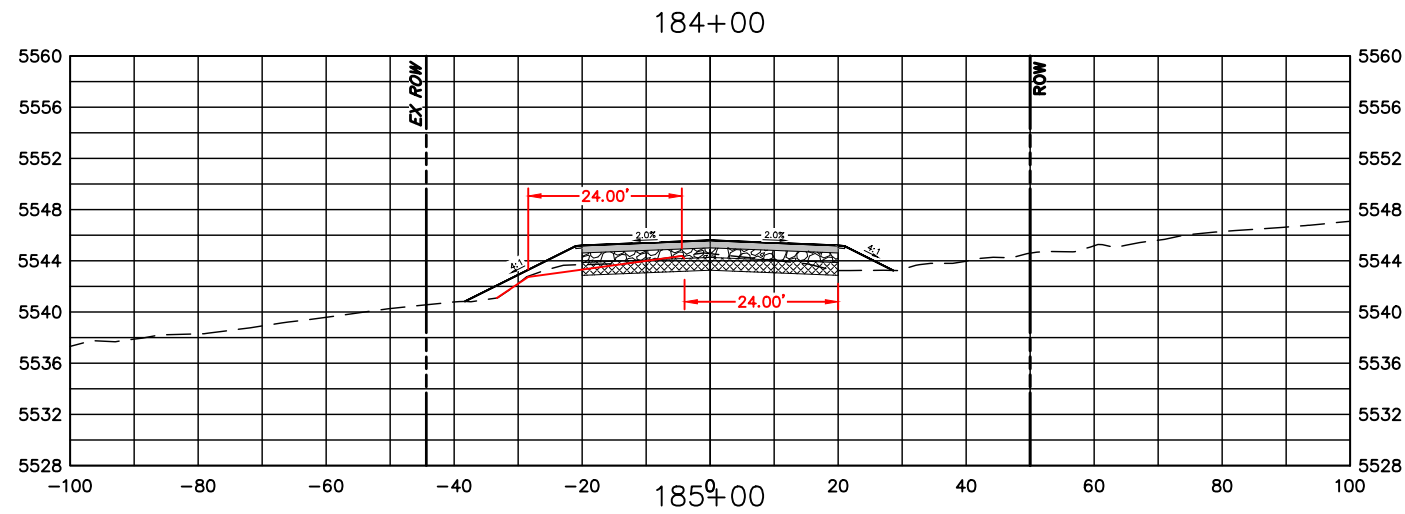


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**CROSS SECTIONS
 STATION 178+00 TO 183+00**

PROJECT NO. 335
LARIMER COUNTY ROAD 72
SHEET NO. 117



COMPUTER INFORMATION	
CREATION DATE:	07/13/20
MODIFICATION DATE:	02/01/21
FILE LOCATION:	INTEREST PROJECTS\2019 PROJECTS\1421-094-00 (LARIMER COUNTY ROAD 72)\DRAWINGS\ENGINEERING PLANS
FILE NAME:	1421-094-00 XS.DWG

REVISIONS	
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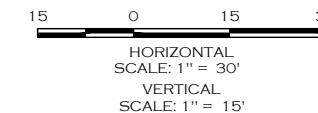
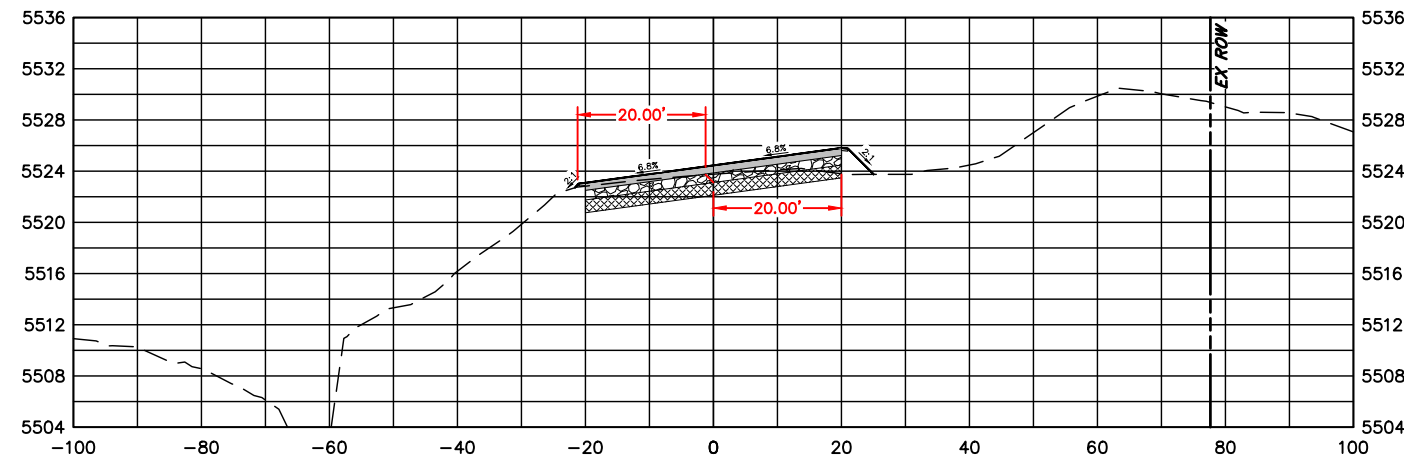
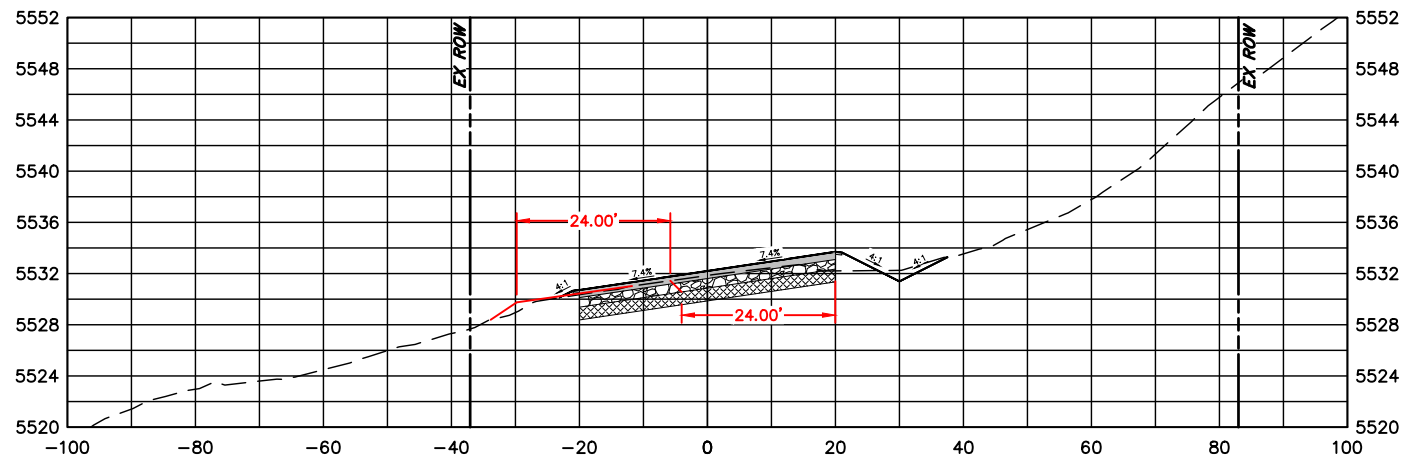
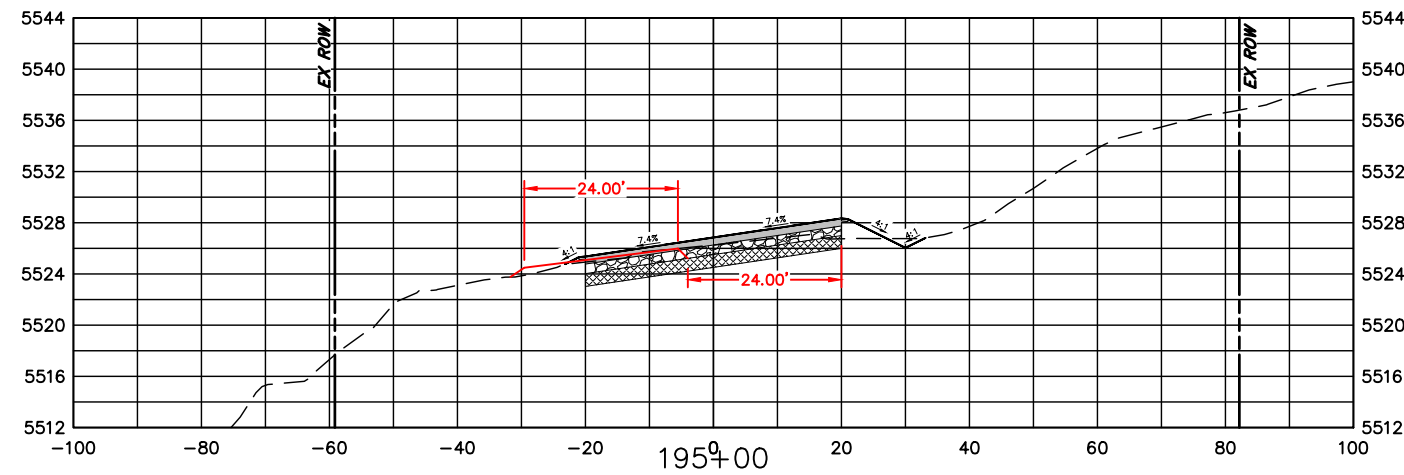
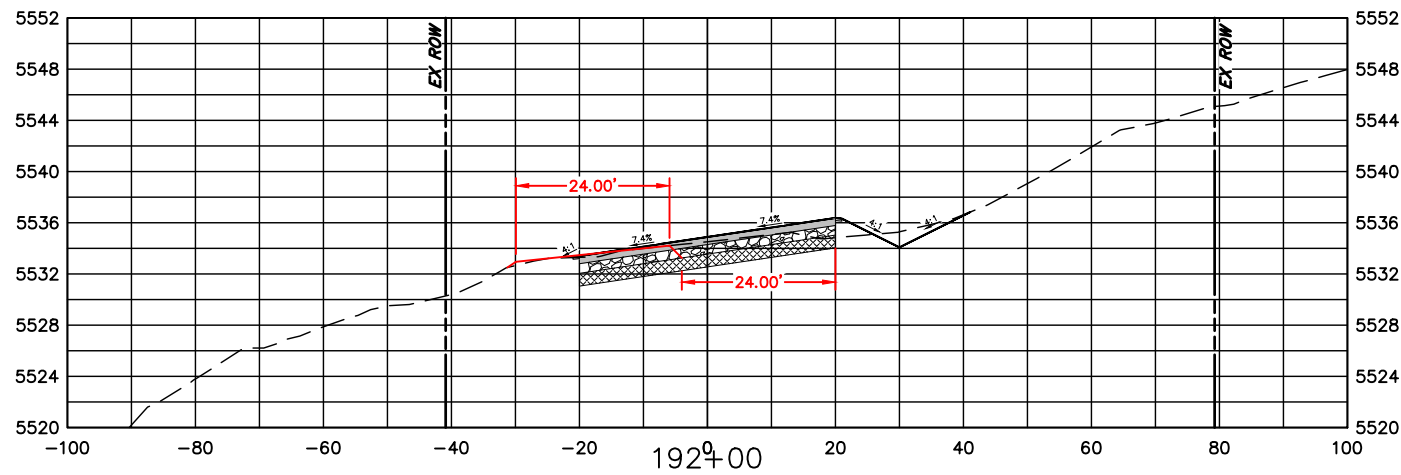
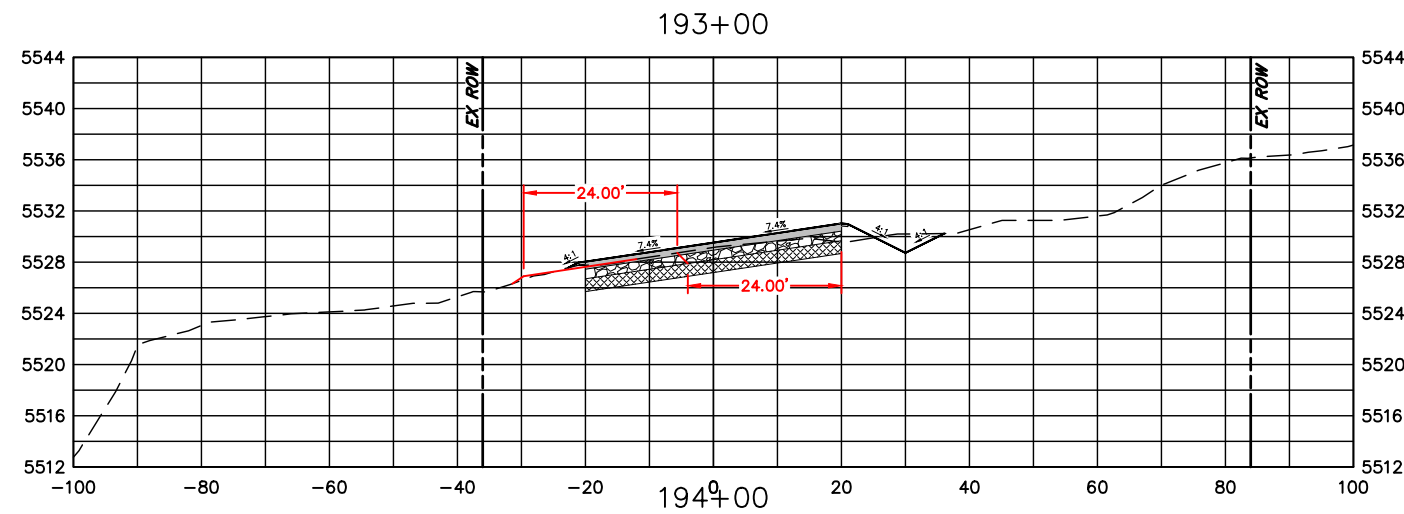
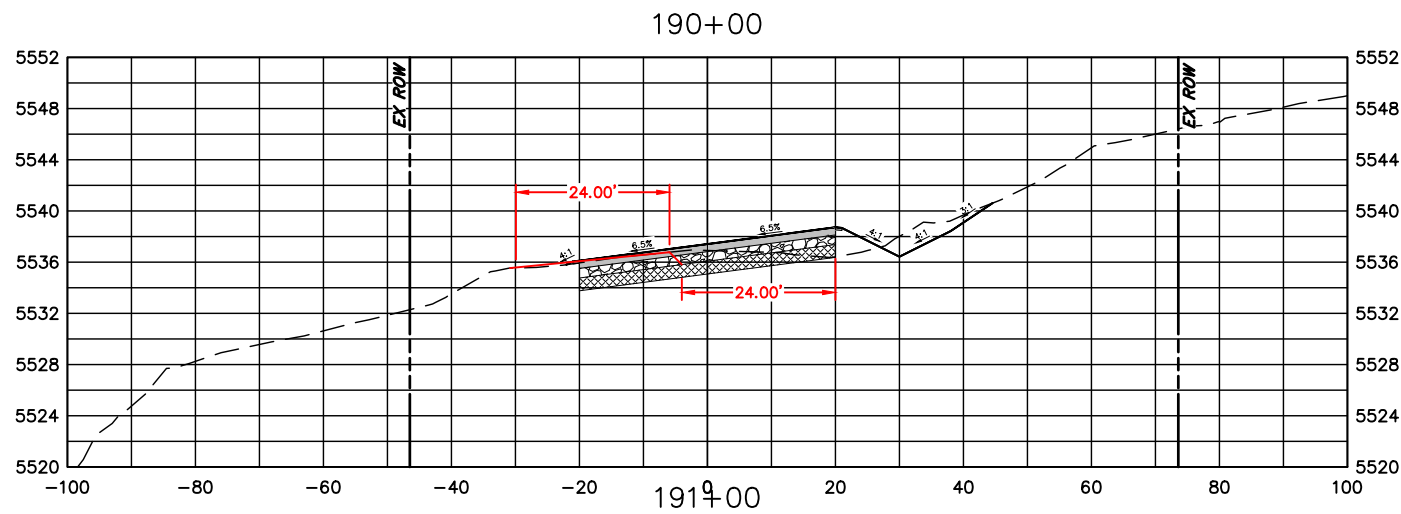


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CROSS SECTIONS
STATION 184+00 TO 189+00

PROJECT NO. 335
LARIMER COUNTY ROAD 72
SHEET NO. 118



COMPUTER INFORMATION

CREATION DATE: 07/13/20
 MODIFICATION DATE: 02/01/21
 FILE LOCATION: INTERWEST\PROJECTS\2019 PROJECTS\1421-094-00 (LARIMER COUNTY ROAD 72)\DRAWINGS\ENGINEERING PLANS
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REVISIONS

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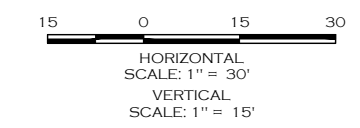
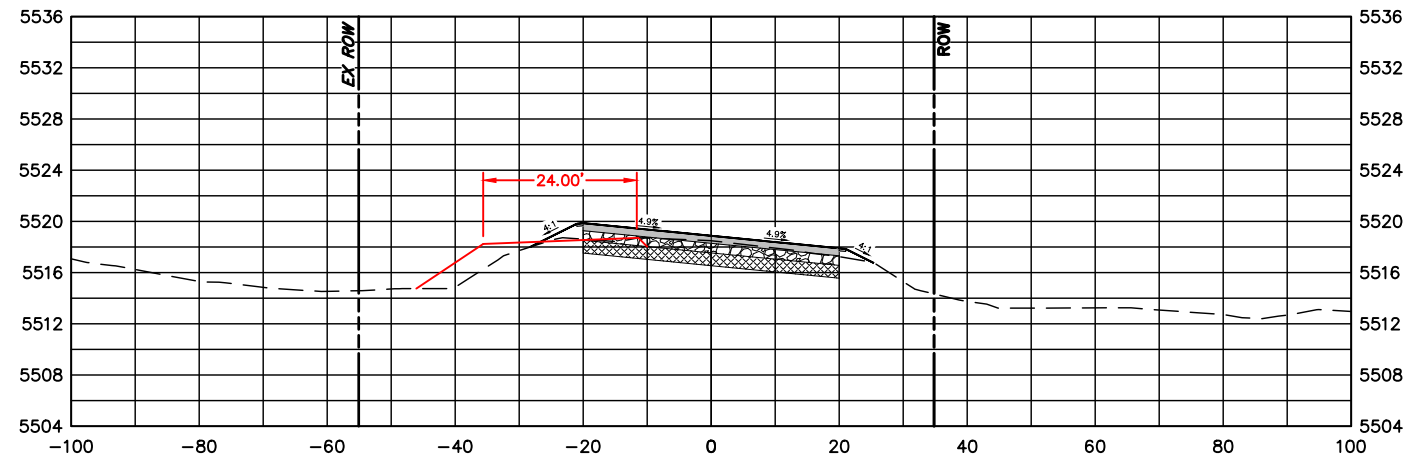
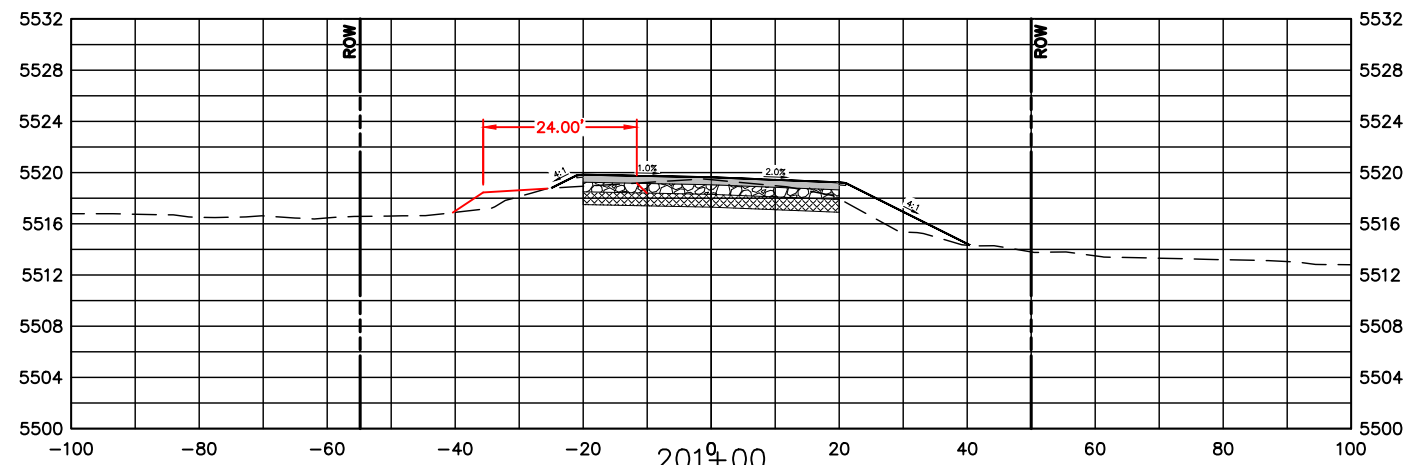
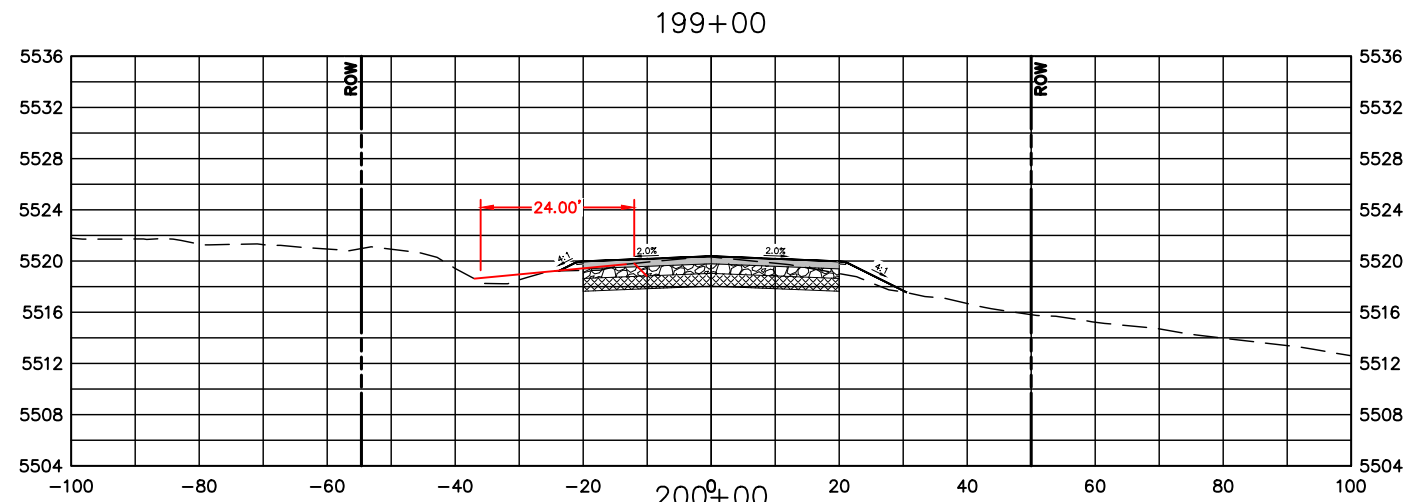
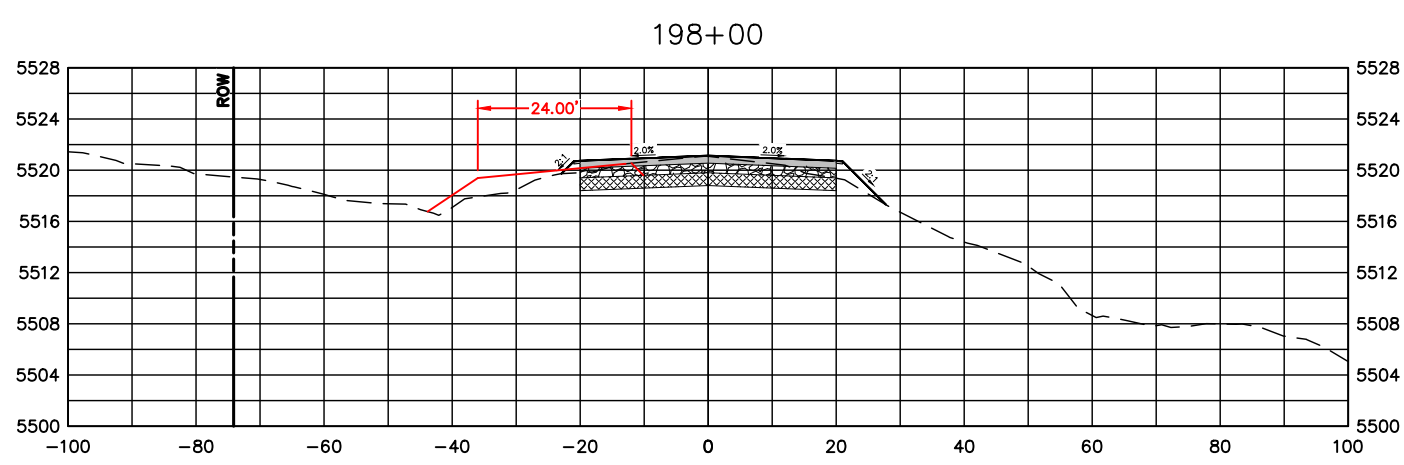
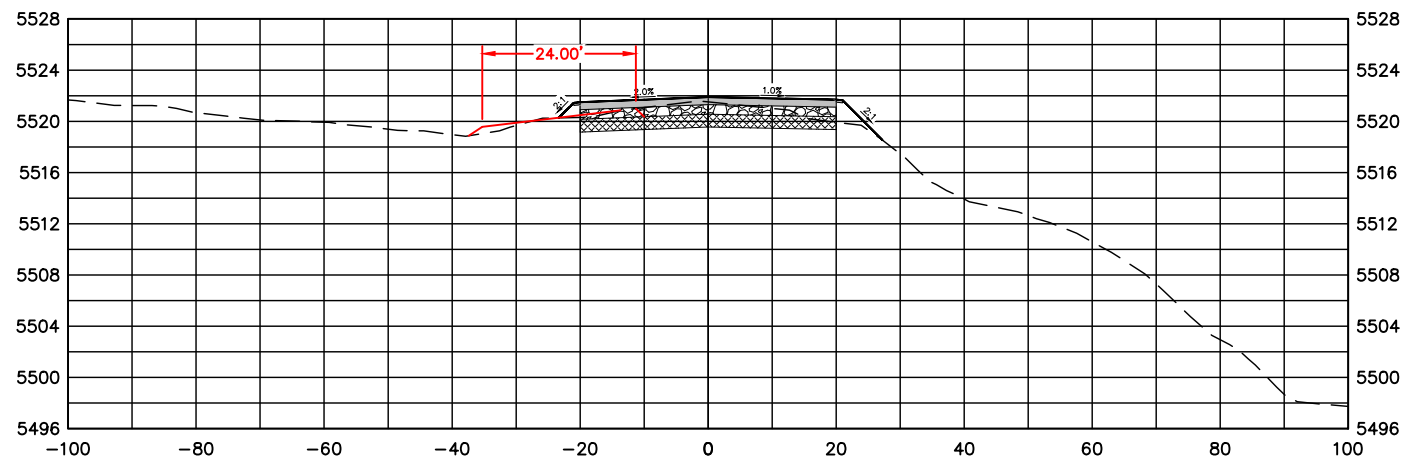
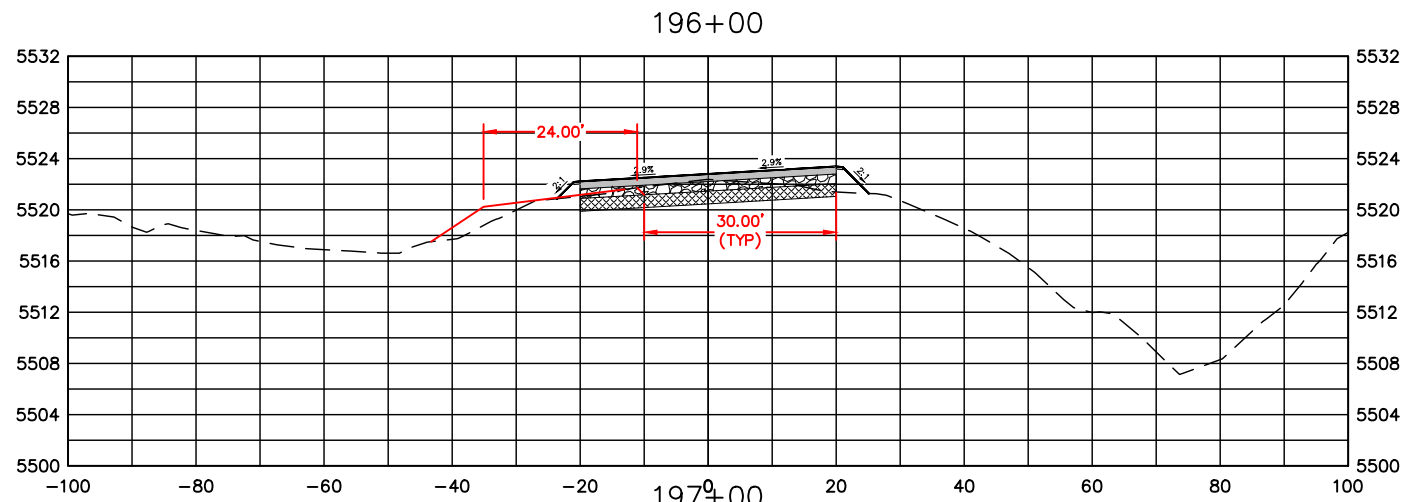
NO REVISIONS:
 REVISED:
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**CROSS SECTIONS
 STATION 190+00 TO 195+00**

PROJECT NO. 335

LARIMER COUNTY ROAD 72

SHEET NO. 119



COMPUTER INFORMATION	
CREATION DATE:	07/13/20
MODIFICATION DATE:	02/01/21
FILE LOCATION:	INTEREST PROJECTS\2019 PROJECTS\1421-094-00 (LARIMER COUNTY ROAD 72)\DRAWINGS\ENGINEERING PLANS
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REVISIONS	
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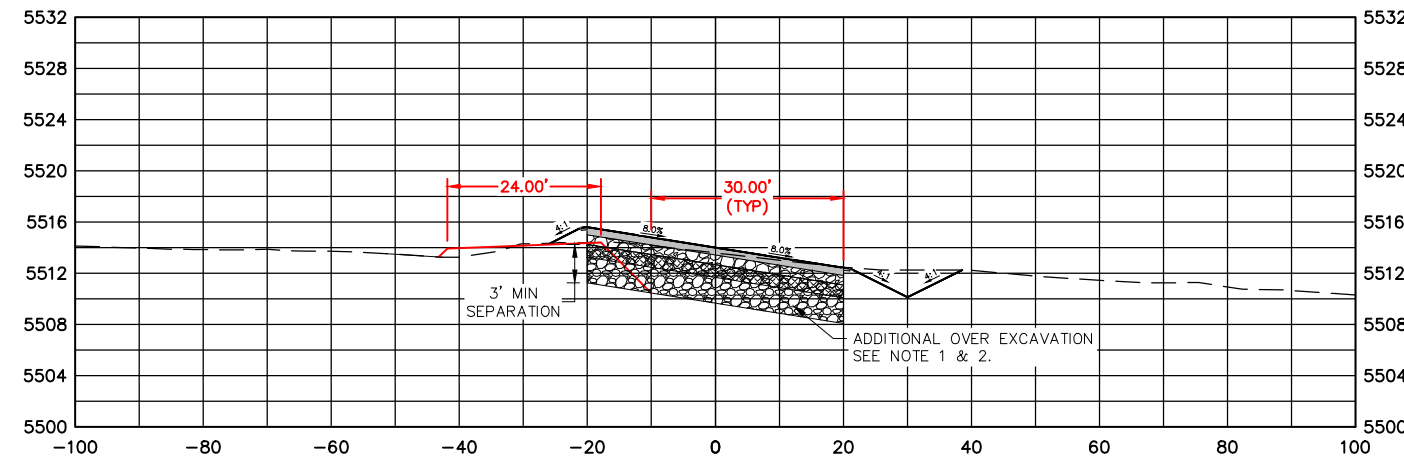
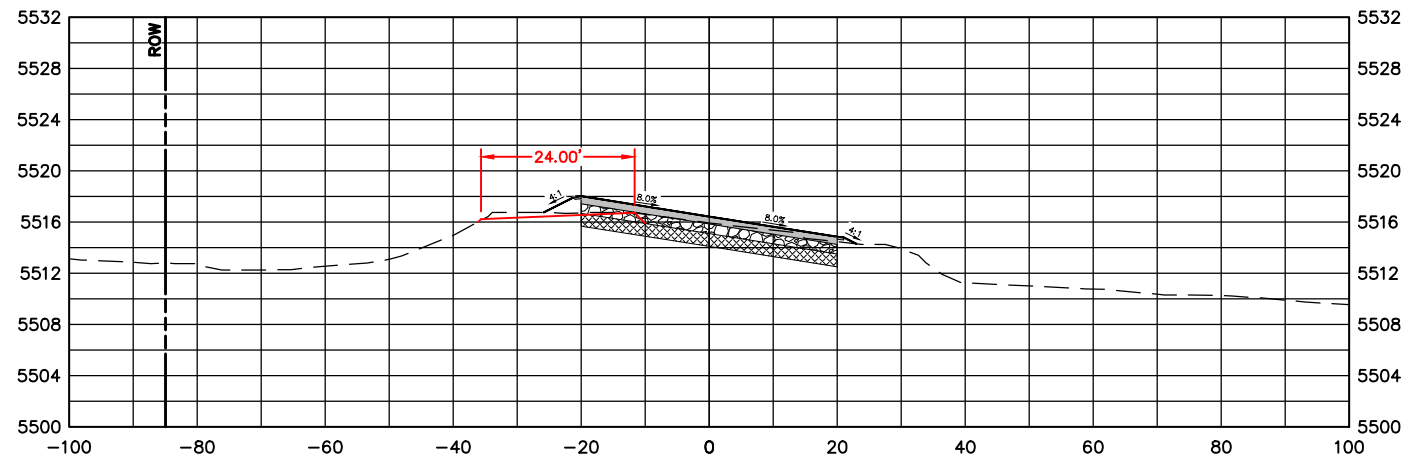
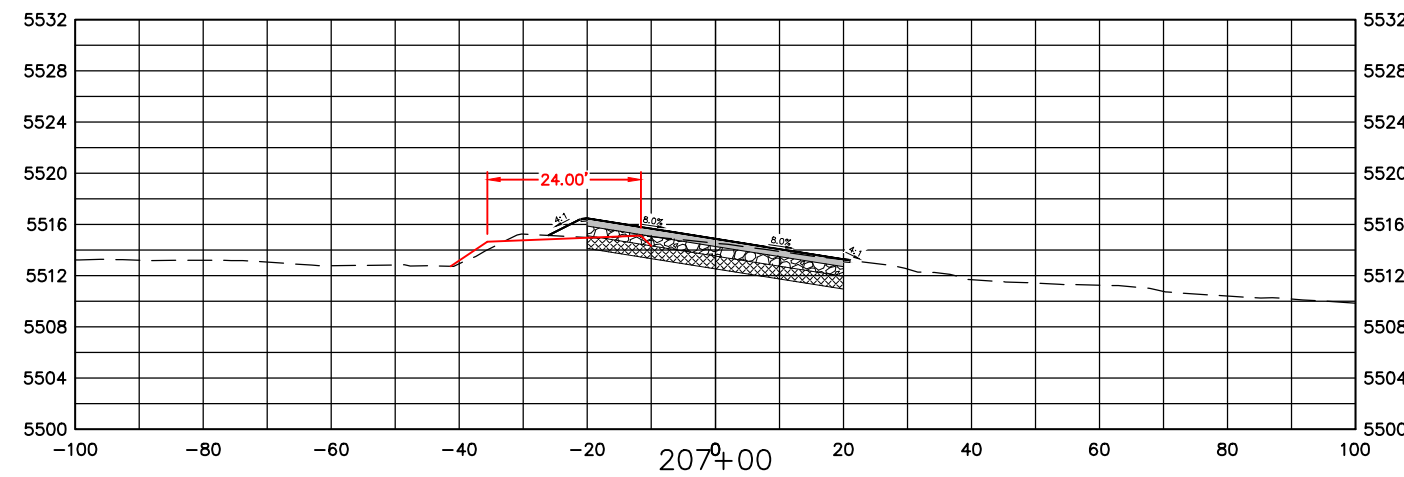
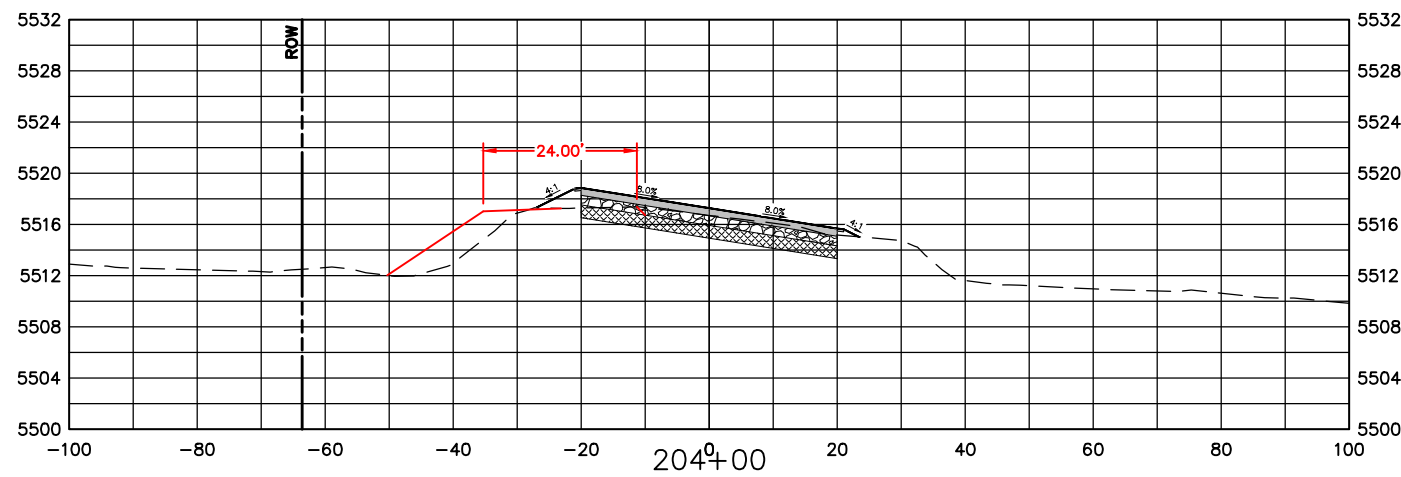
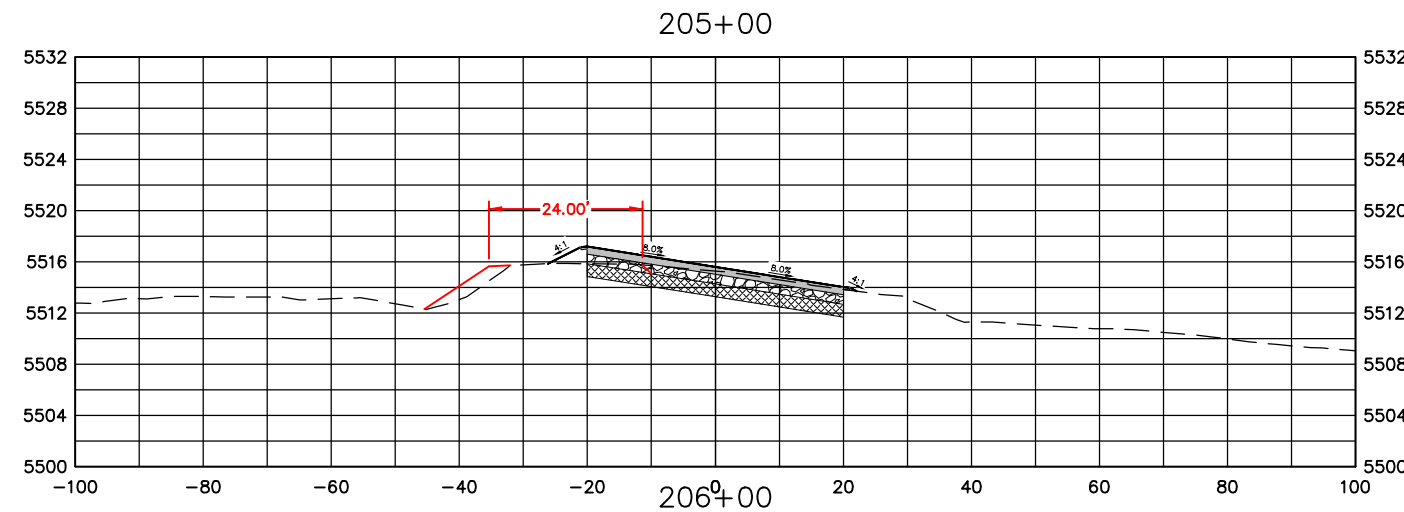
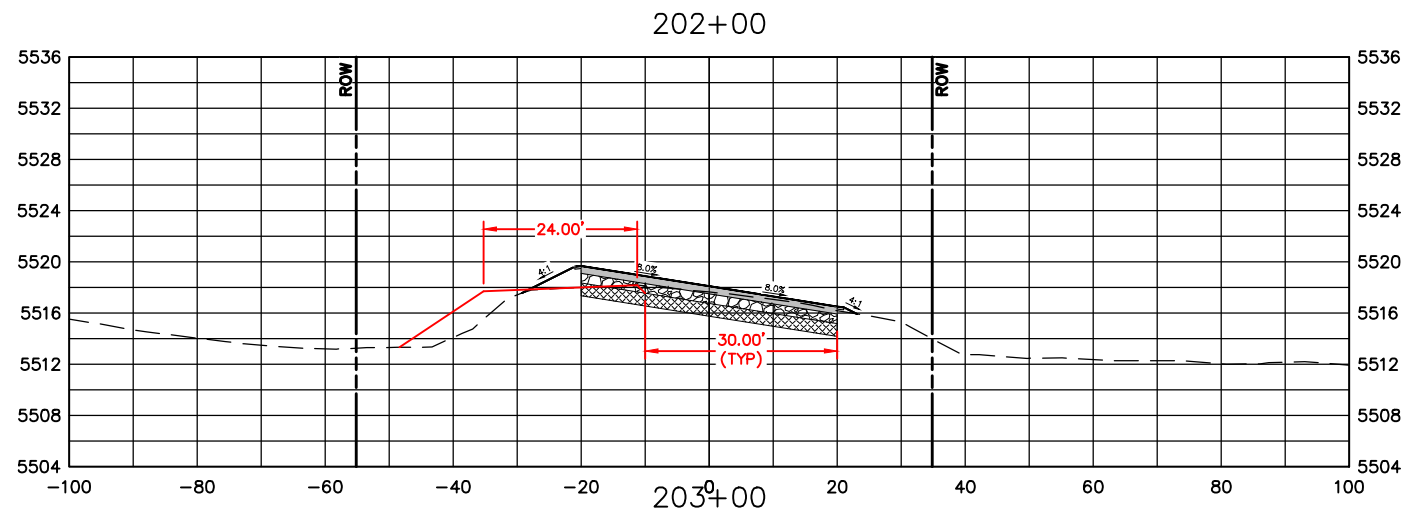


ENGINEERING DEPARTMENT
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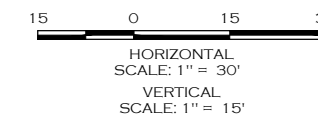
CROSS SECTIONS
STATION 196+00 TO 201+00

PROJECT NO. 335
LARIMER COUNTY ROAD 72
SHEET NO. 120



NOTE:

1. MAINTAIN A MINIMUM OF 3 FEET VERTICAL SEPARATION FROM BOTTOM OF STANDARD 9 INCH AGGREGATE BASE COURSE TO TOP OF EXISTING SANDSTONE/BED ROCK. BRIDGE GAP WITH ADDITIONAL AGGREGATE BASE MATERIAL OR AS APPROVED BY THE PROJECT MANAGER. LIMITS OF REMOVAL ARE GENERALLY BETWEEN STA 207+00 AND 213+00. FINAL LIMITS TO BE FIELD VERIFIED.
2. ADDITIONAL OVER EXCAVATION FROM STA 207+00 TO 213+00 TO BE PAID FOR UNDER ROCK EXCAVATION. ADDITIONAL AGGREGATE BASE MATERIAL TO BE PAID FOR UNDER AGGREGATE BASE COURSE (CLASS 5).



COMPUTER INFORMATION	
CREATION DATE:	07/13/20
MODIFICATION DATE:	02/01/21
FILE LOCATION:	INTEREST PROJECTS\2019 PROJECTS\1421-094-00 (LARIMER COUNTY ROAD 72)\DRAWINGS\ENGINEERING PLANS
FILE NAME:	1421-094-00 XS.DWG

REVISIONS	
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(R-2)	
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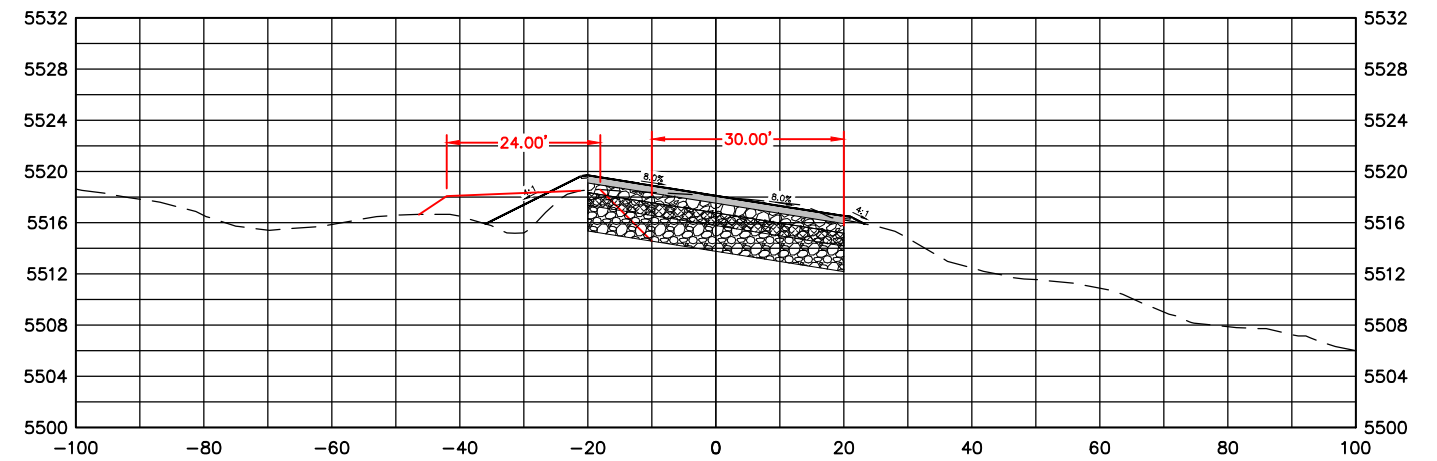
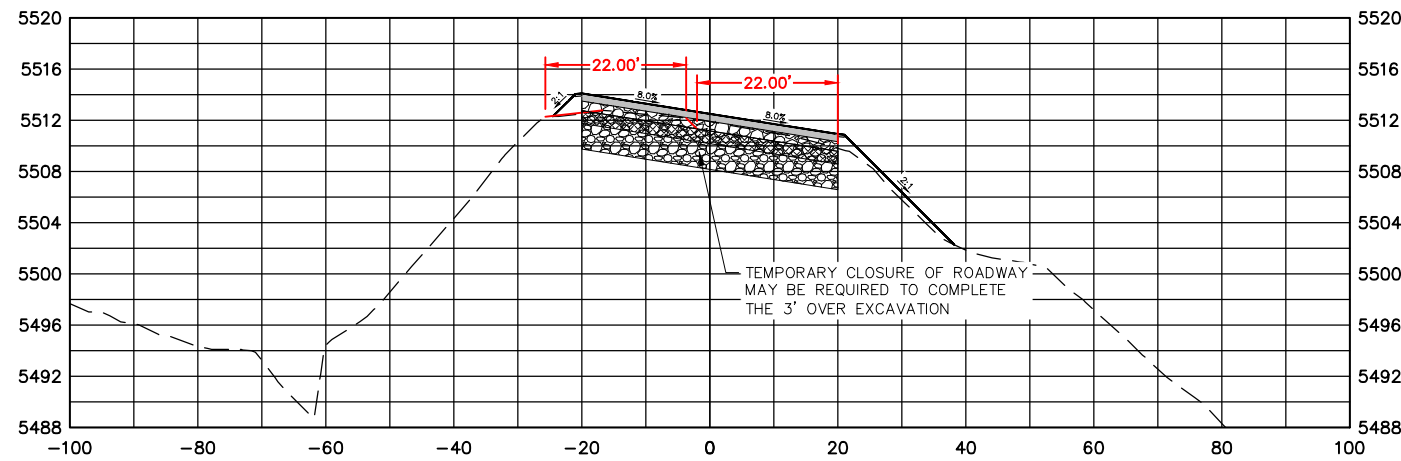
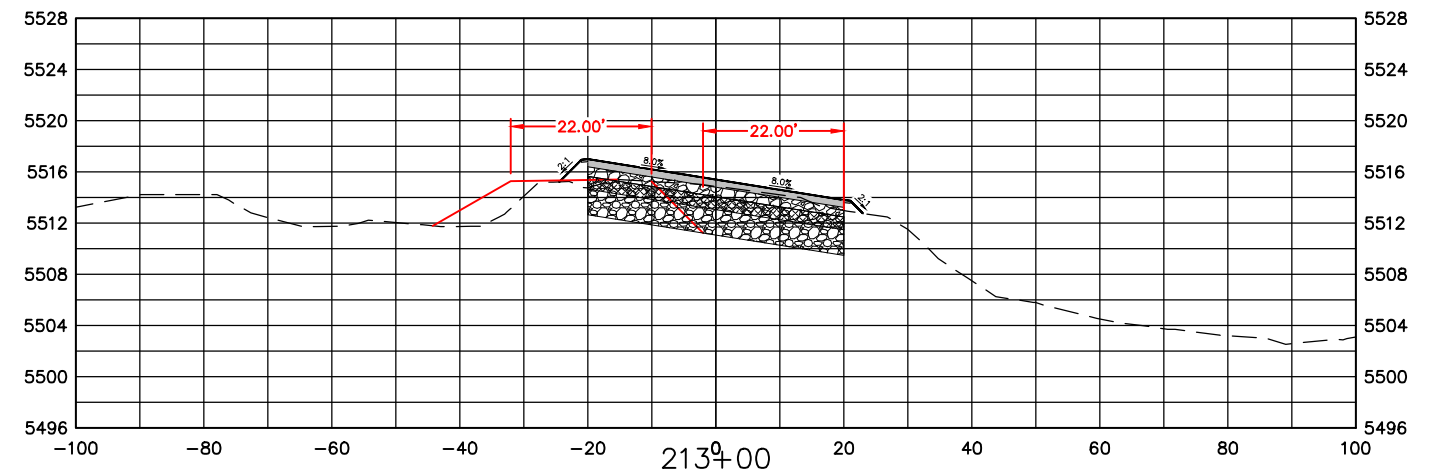
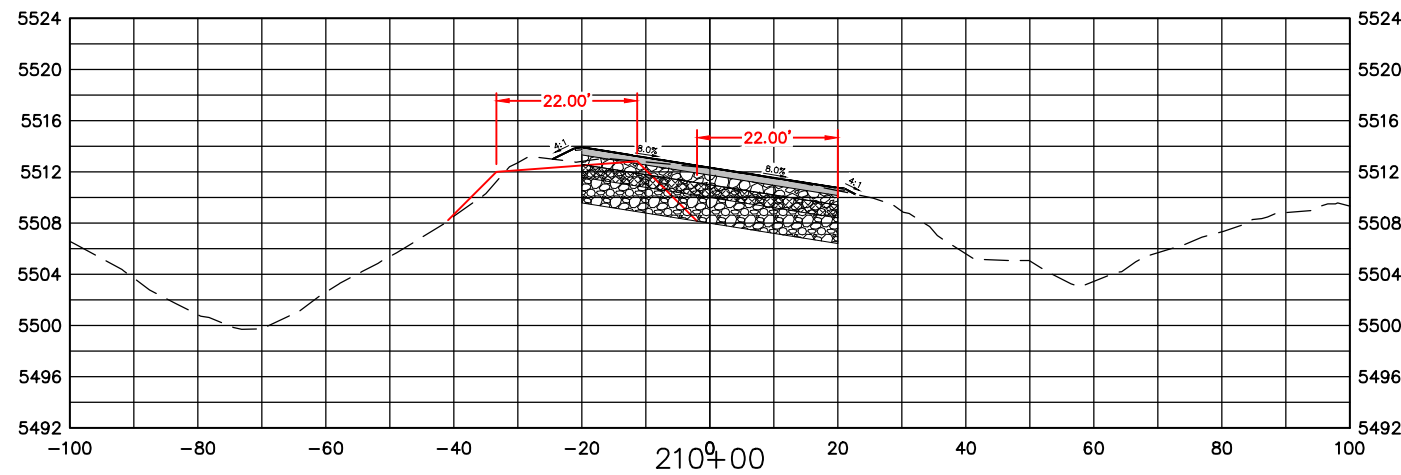
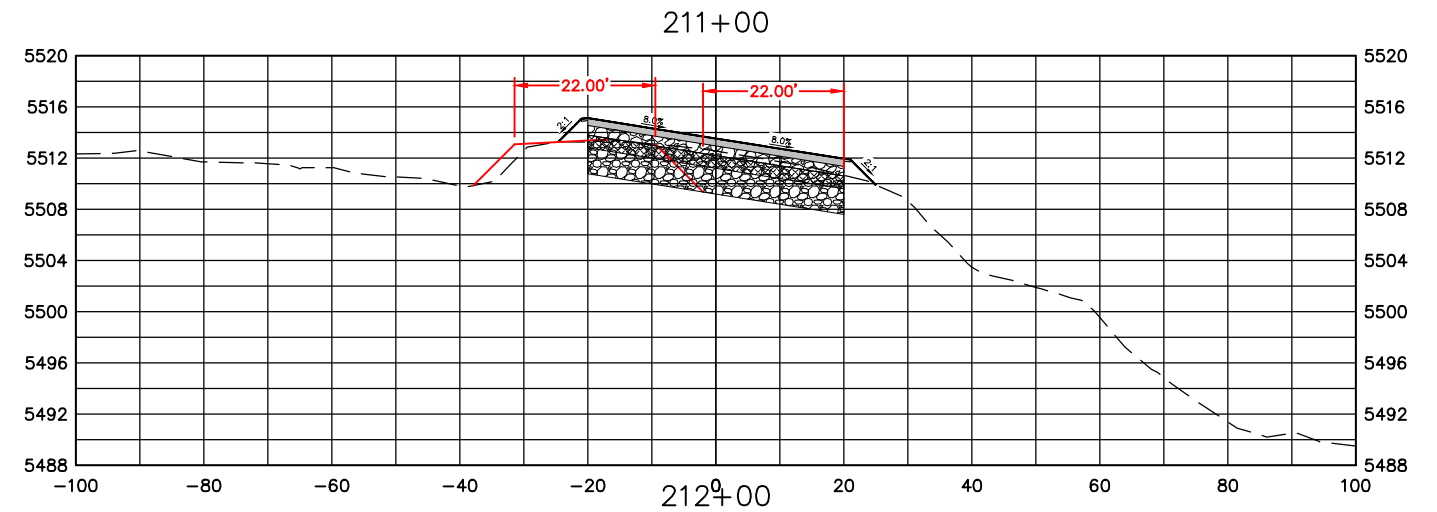
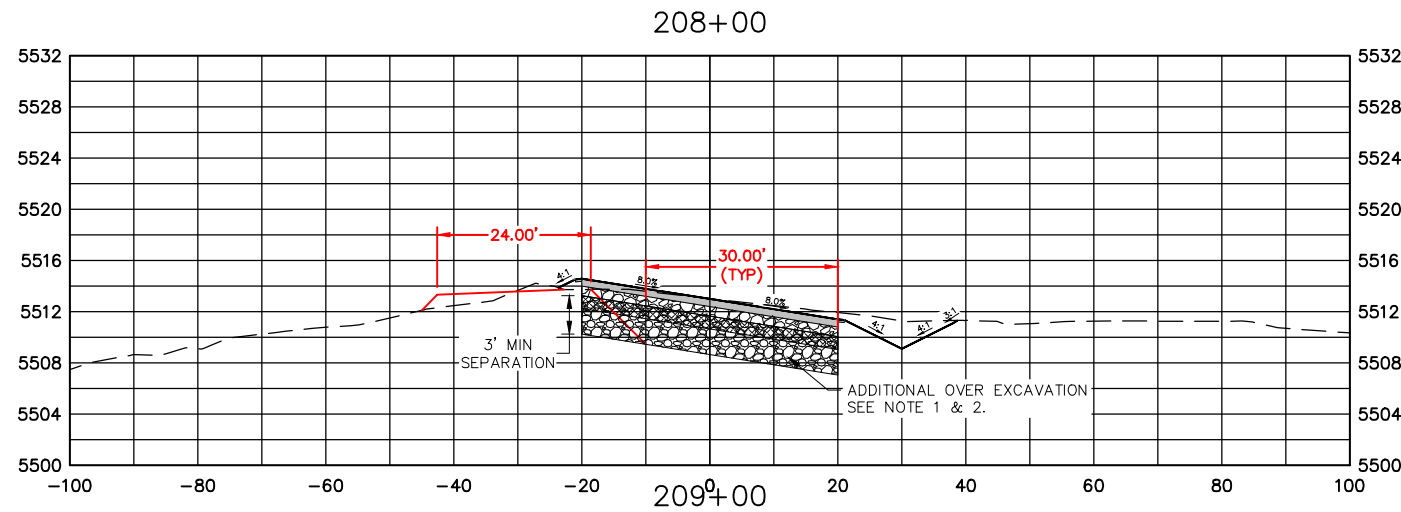


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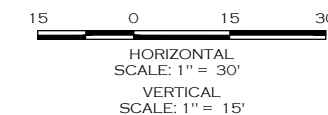
CROSS SECTIONS
STATION 202+00 TO 207+00

PROJECT NO. 335
LARIMER COUNTY ROAD 72
SHEET NO. 121



NOTE:

1. MAINTAIN A MINIMUM OF 3 FEET VERTICAL SEPARATION FROM BOTTOM OF STANDARD 9 INCH AGGREGATE BASE COURSE TO TOP OF EXISTING SANDSTONE/BED ROCK. BRIDGE GAP WITH ADDITIONAL AGGREGATE BASE MATERIAL OR AS APPROVED BY THE PROJECT MANAGER. LIMITS OF REMOVAL ARE GENERALLY BETWEEN STA 207+00 AND 213+00. FINAL LIMITS TO BE FIELD VERIFIED.
2. ADDITIONAL OVER EXCAVATION FROM STA 207+00 TO 213+00 TO BE PAID FOR UNDER ROCK EXCAVATION. ADDITIONAL AGGREGATE BASE MATERIAL TO BE PAID FOR UNDER AGGREGATE BASE COURSE (CLASS 5).



COMPUTER INFORMATION	
CREATION DATE:	07/13/20
MODIFICATION DATE:	02/01/21
FILE LOCATION:	INTEREST PROJECTS\2019 PROJECTS\1421-094-00 (LARIMER COUNTY ROAD 72)\DRAWINGS\ENGINEERING PLANS
FILE NAME:	1421-094-00 XS.DWG

REVISIONS	
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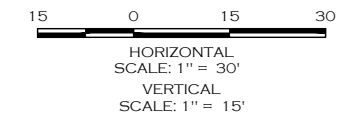
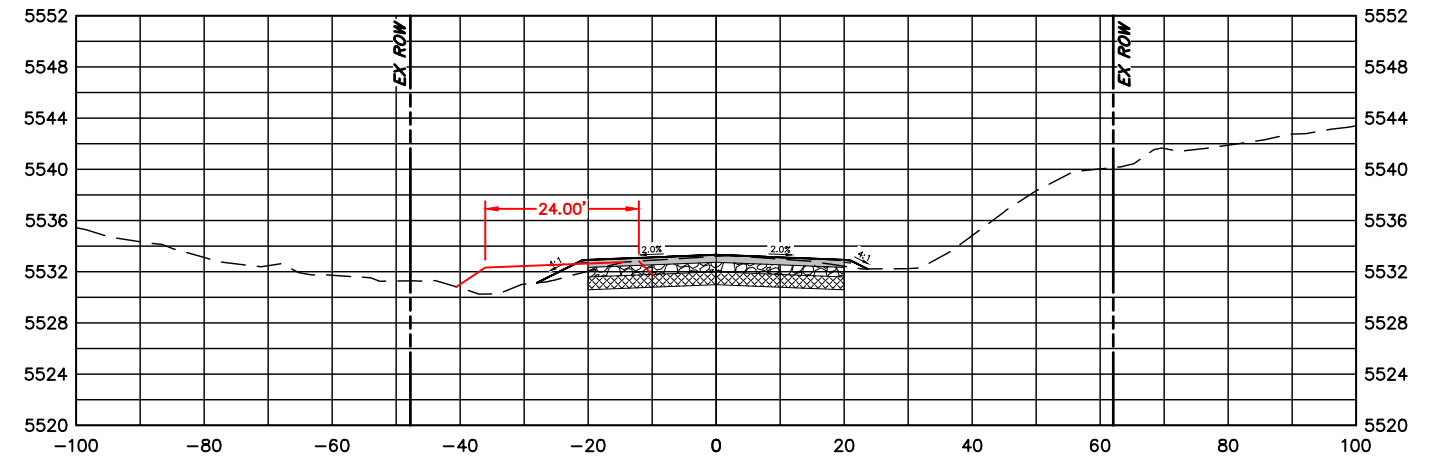
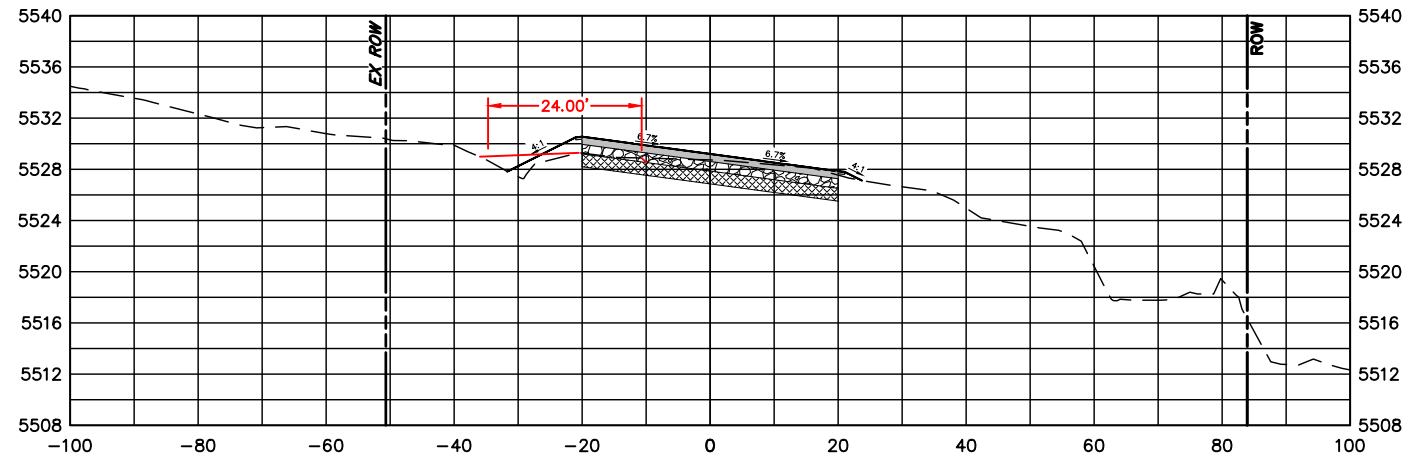
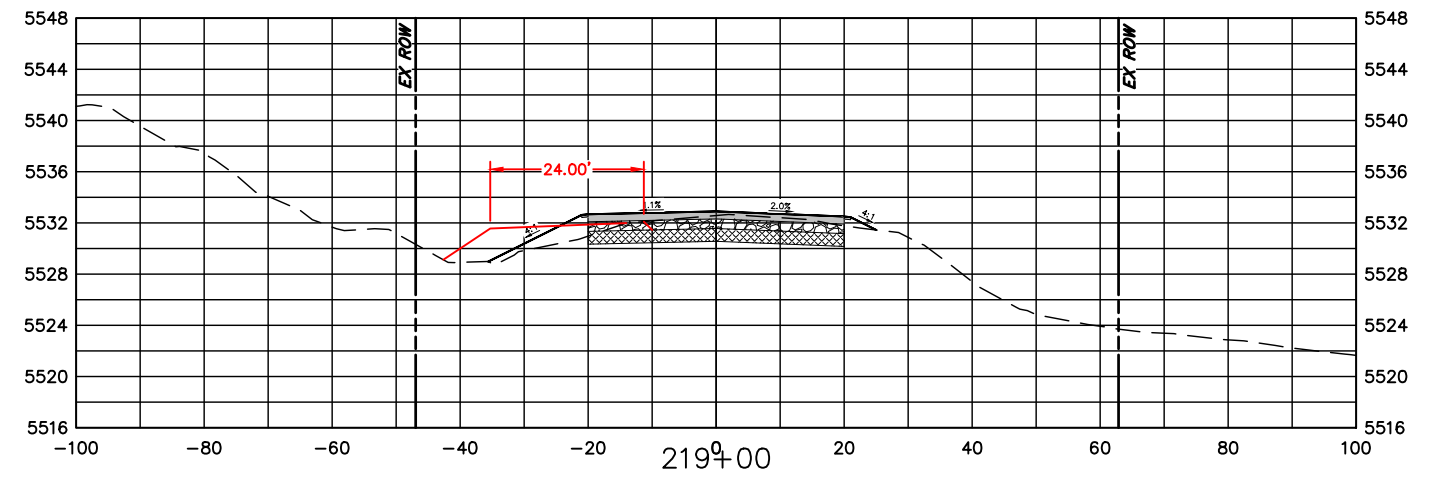
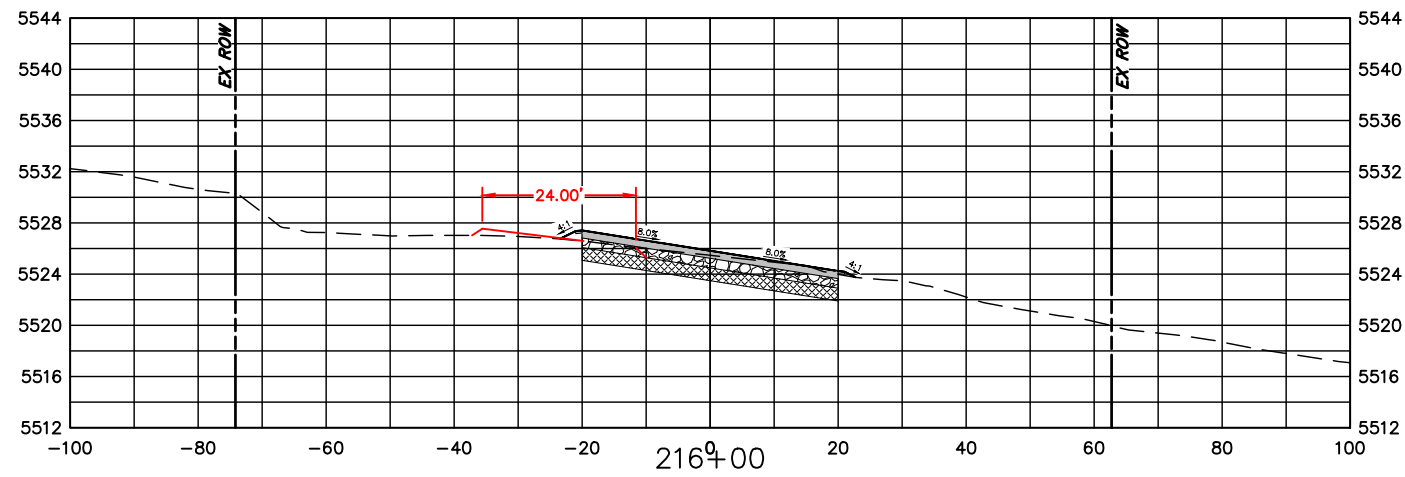
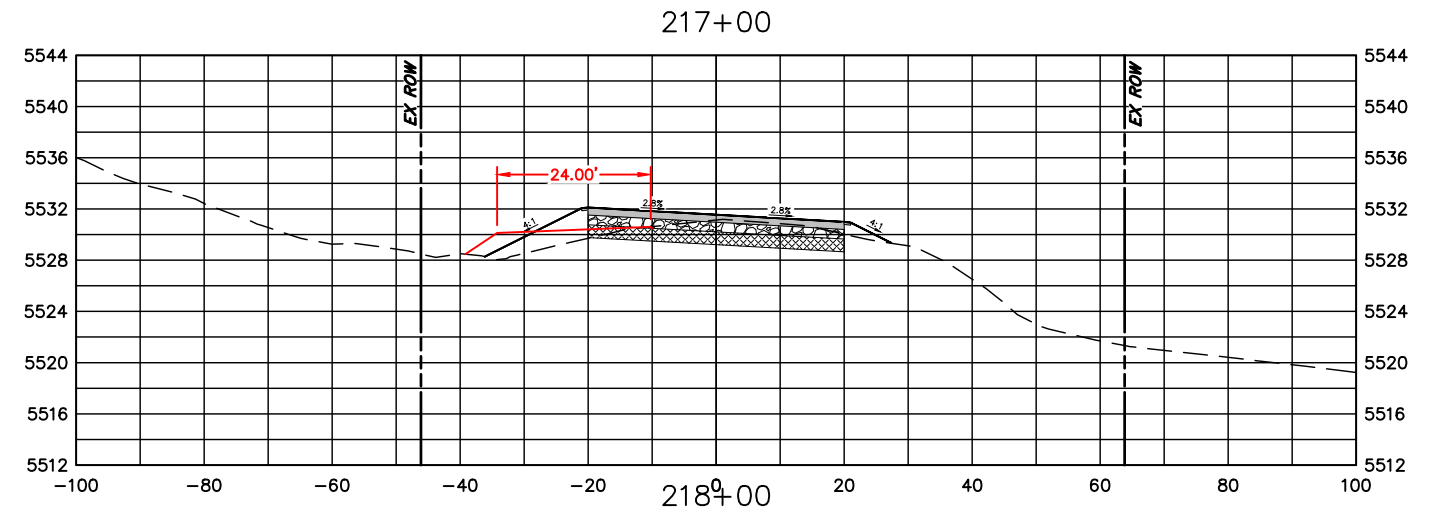
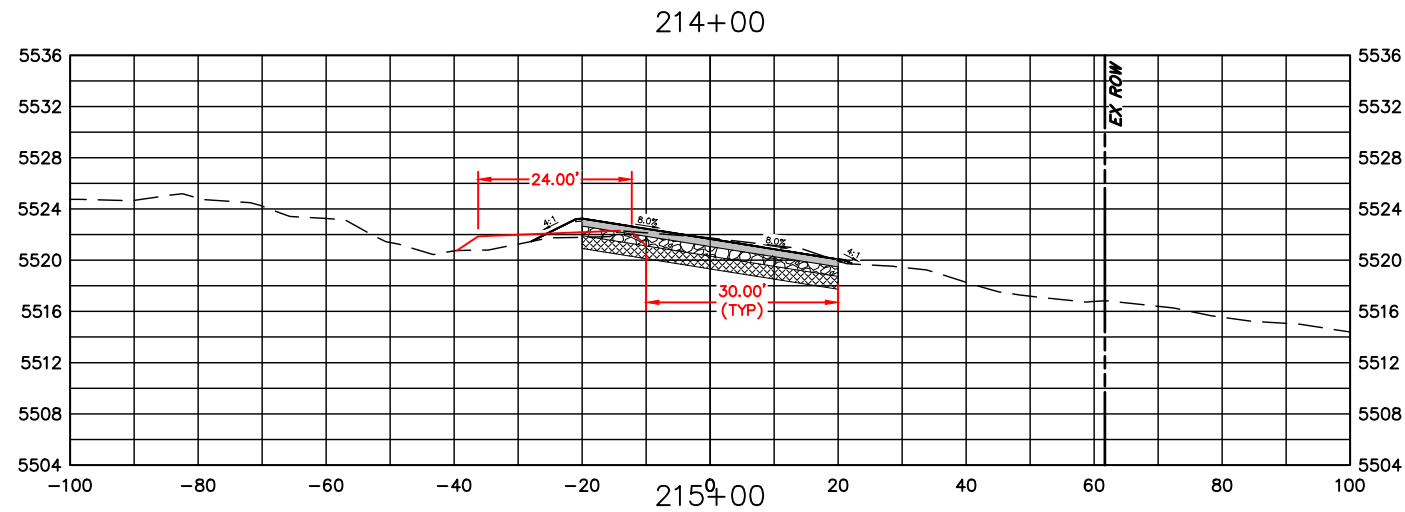


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**CROSS SECTIONS
 STATION 208+00 TO 213+00**

PROJECT NO. 335
LARIMER COUNTY ROAD 72
SHEET NO. 122



COMPUTER INFORMATION	
CREATION DATE:	07/13/20
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FILE NAME:	1421-094-00 XS.DWG

REVISIONS	
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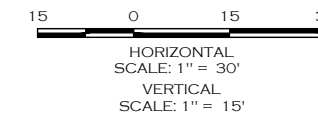
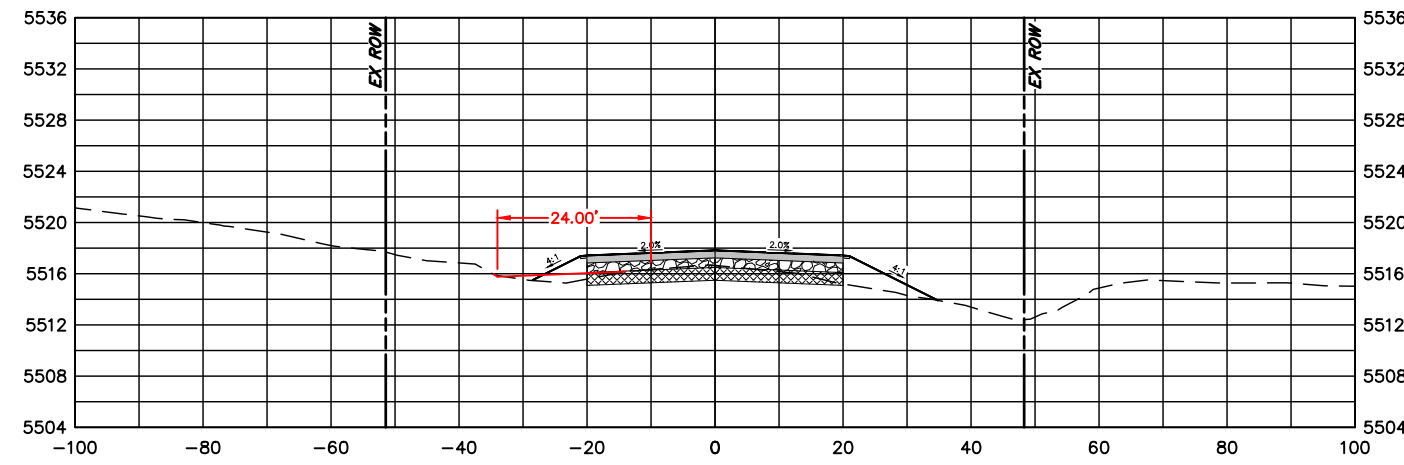
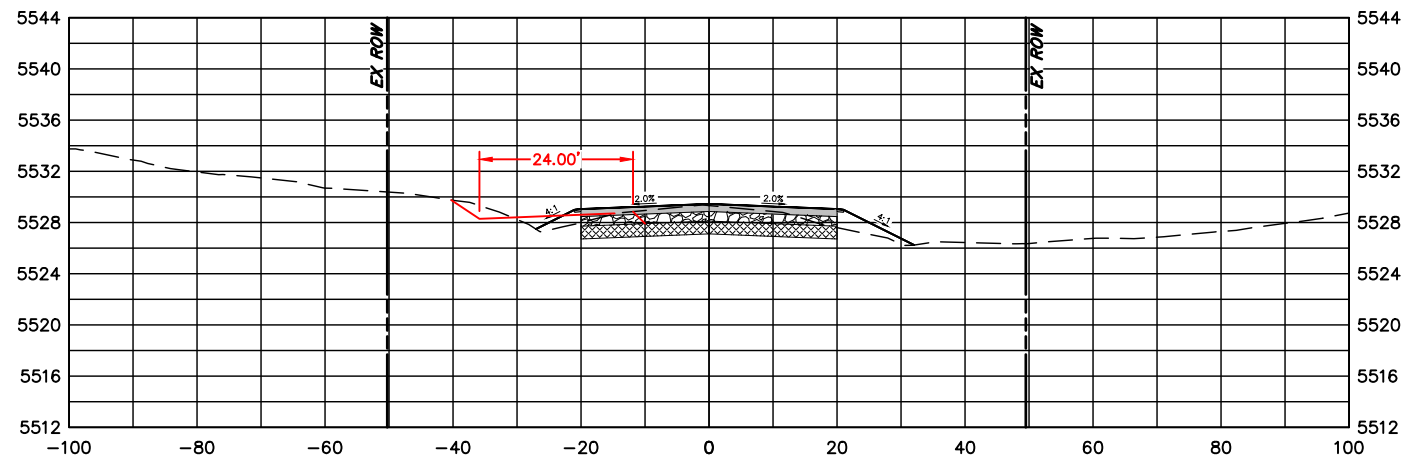
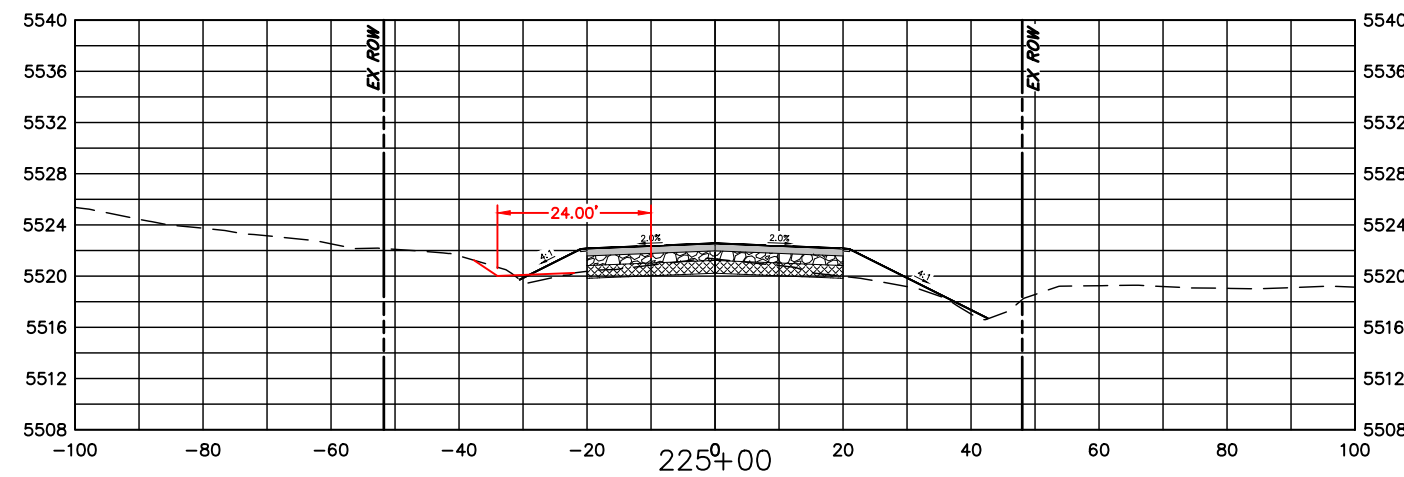
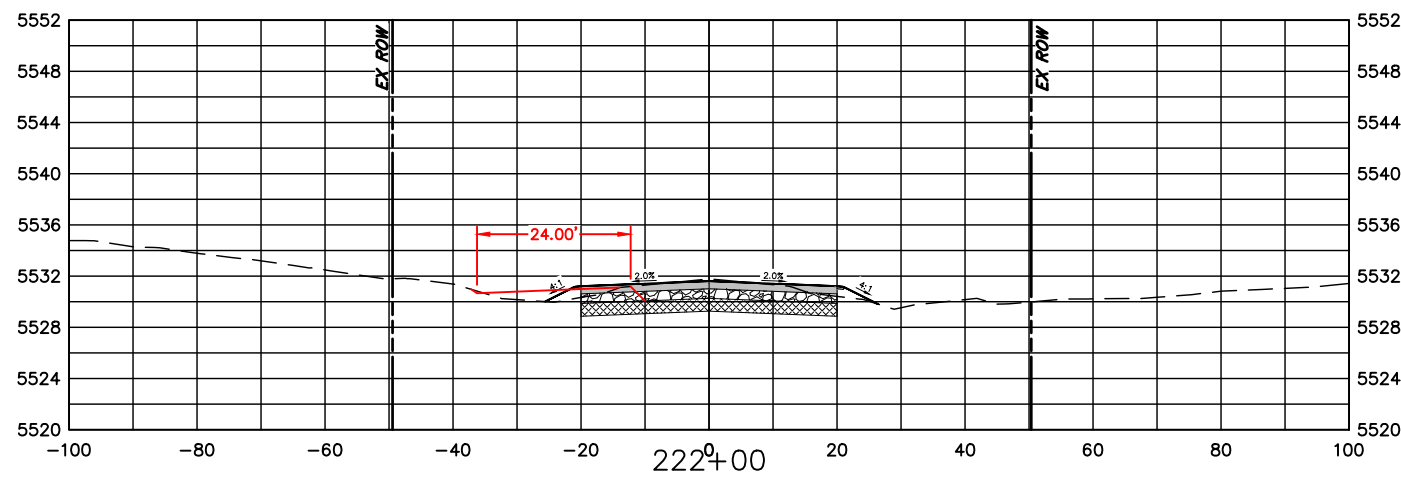
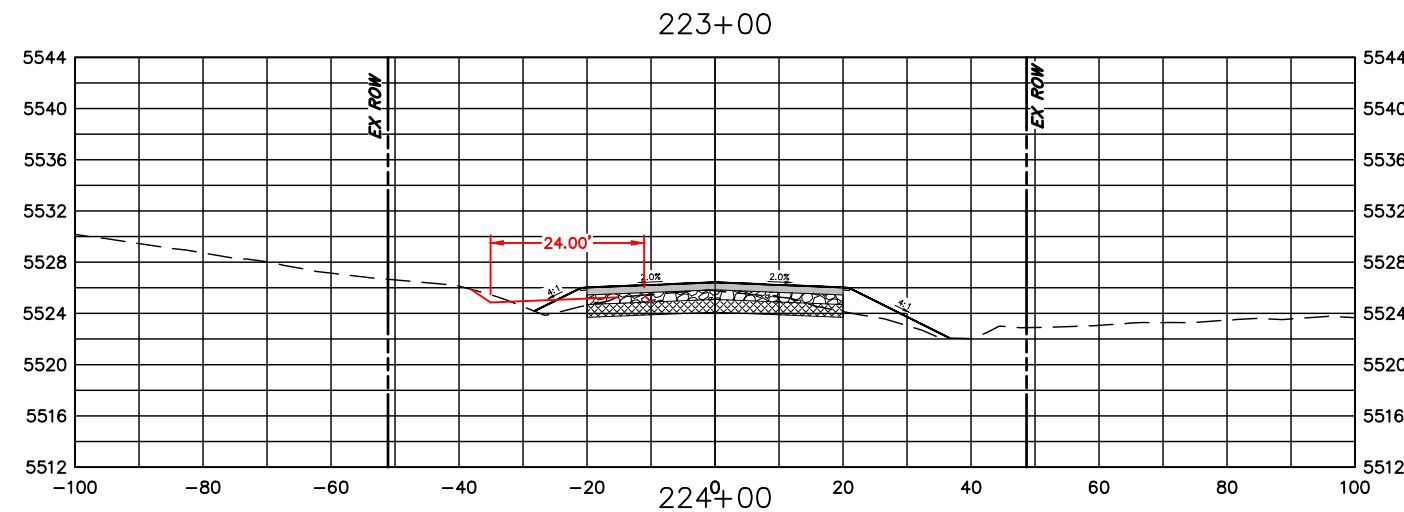
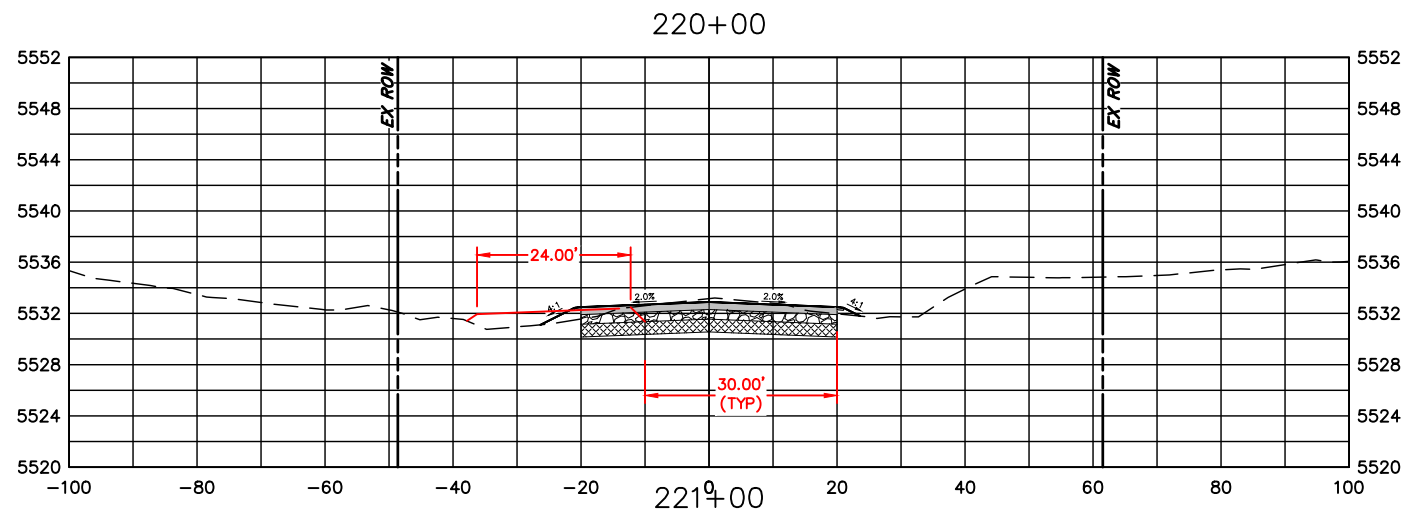


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**CROSS SECTIONS
 STATION 214+00 TO 219+00**

PROJECT NO. 335
LARIMER COUNTY ROAD 72
SHEET NO. 123



COMPUTER INFORMATION

CREATION DATE: 07/13/20
 MODIFICATION DATE: 02/01/21
 FILE LOCATION: INTEREST PROJECTS\2019 PROJECTS\1421-094-00 (LARIMER COUNTY ROAD 72)\DRAWINGS\ENGINEERING PLANS
 FILE NAME: 1421-094-00 XS.DWG

REVISIONS

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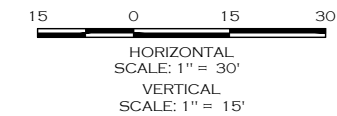
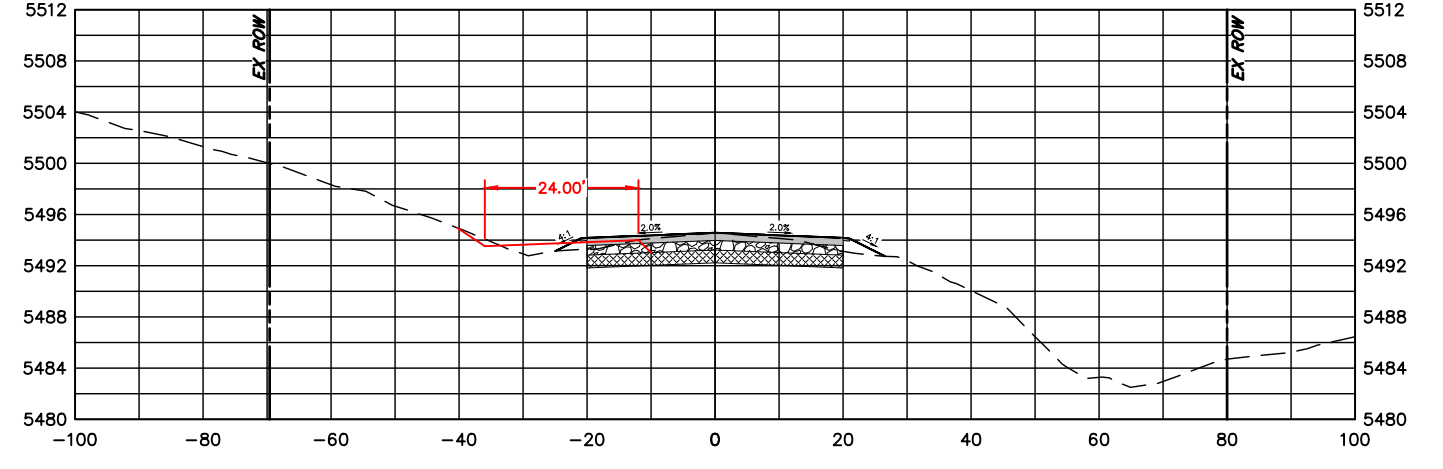
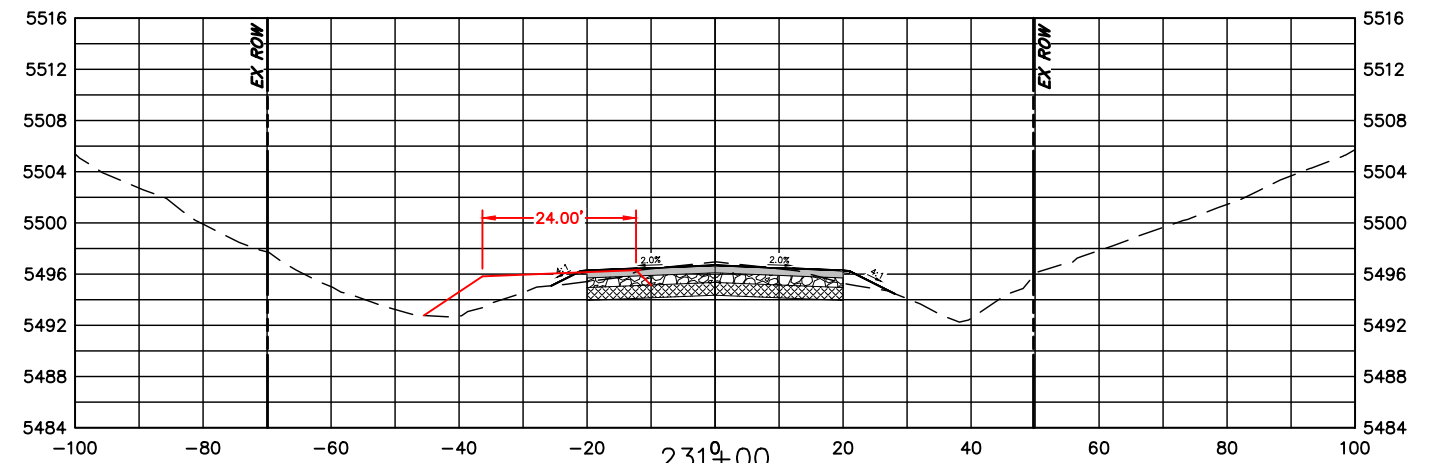
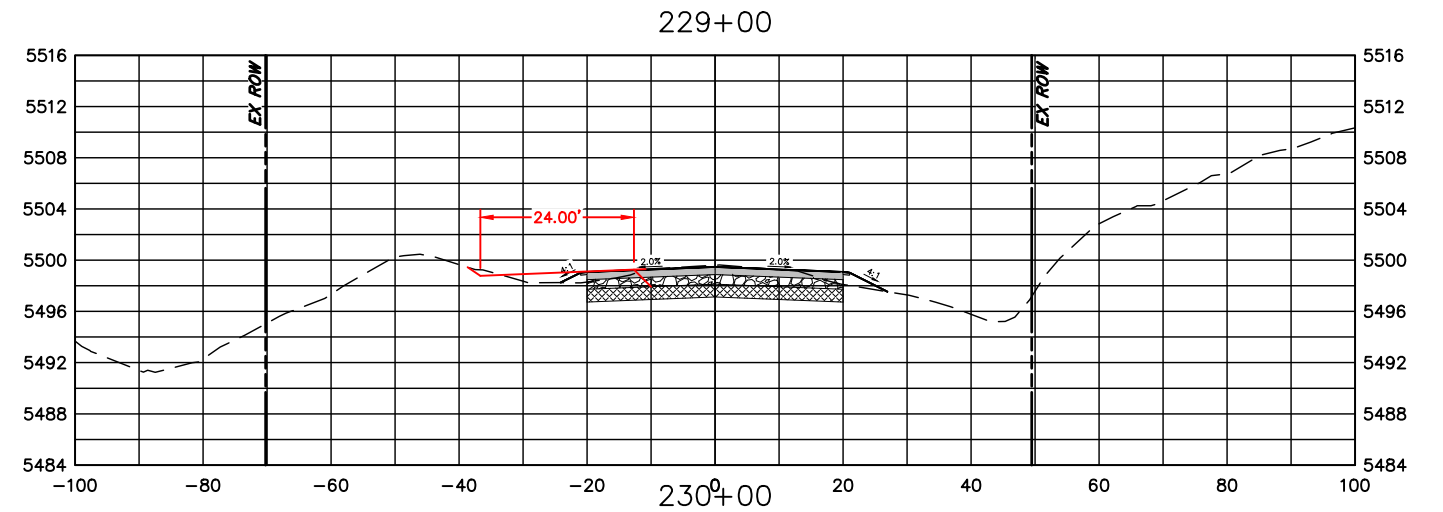
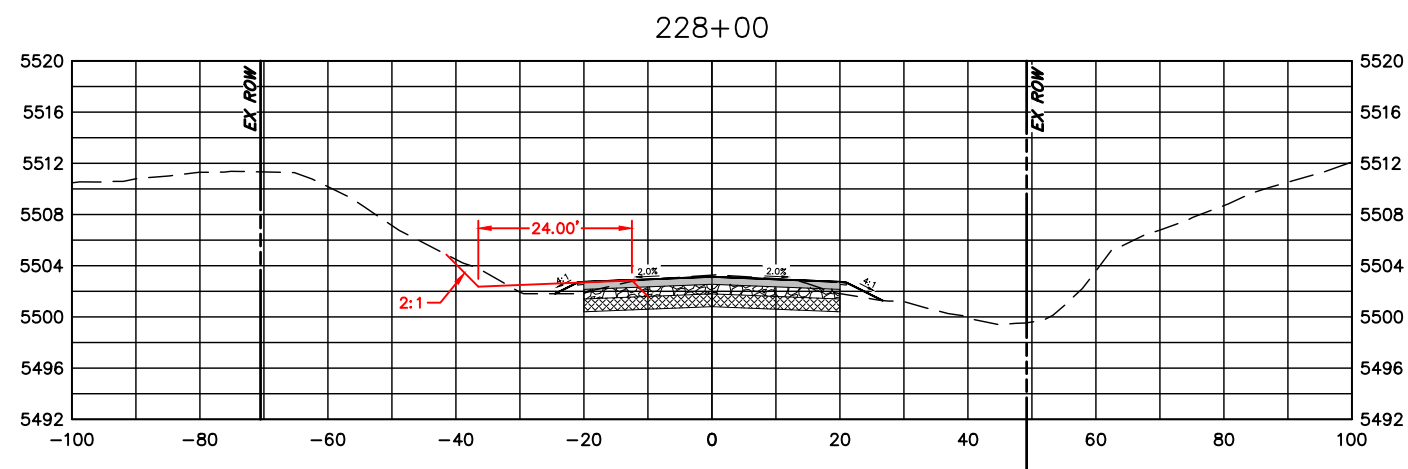
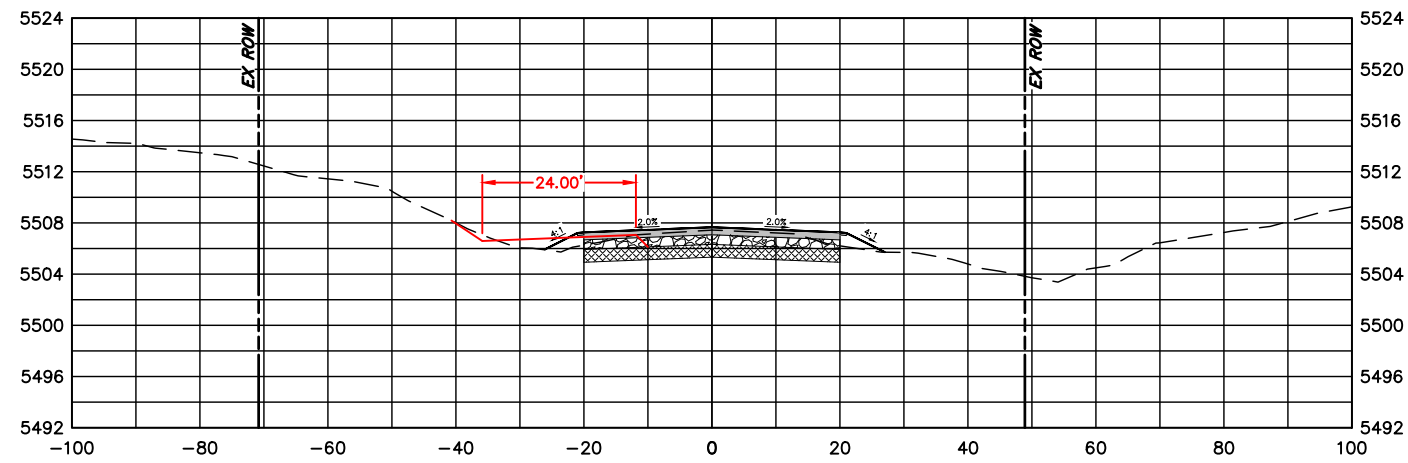
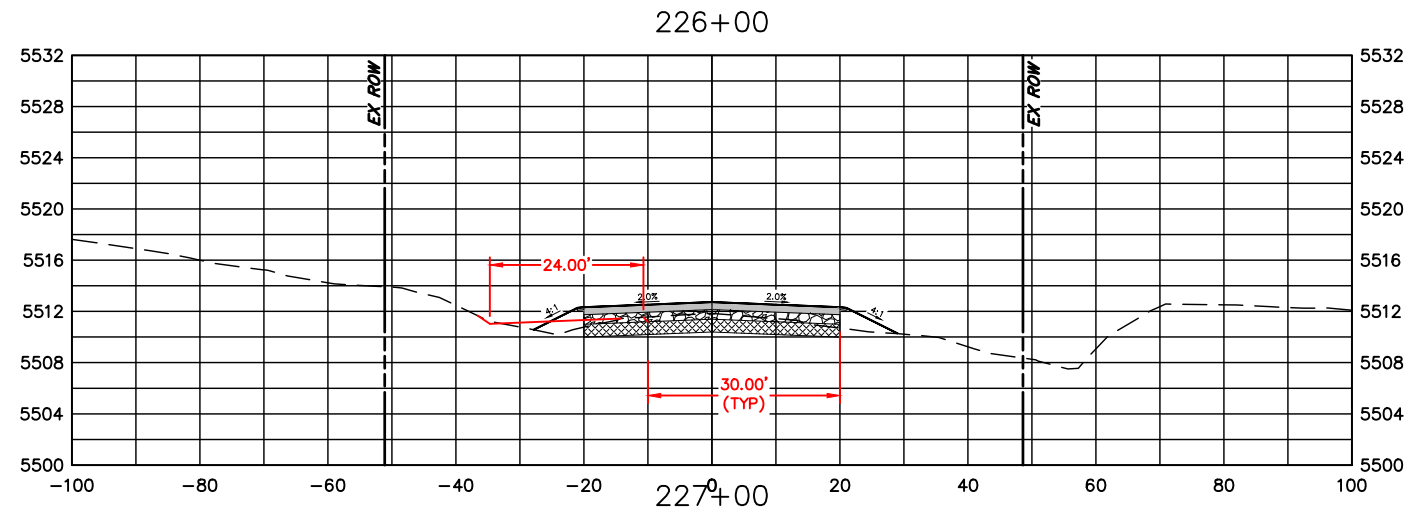
NO REVISIONS:
 REVISED:
 VOID:

**CROSS SECTIONS
 STATION 220+00 TO 225+00**

PROJECT NO. 335

LARIMER COUNTY ROAD 72

SHEET NO. 124



COMPUTER INFORMATION	
CREATION DATE:	07/13/20
MODIFICATION DATE:	02/01/21
FILE LOCATION:	INTEREST PROJECTS\2019 PROJECTS\1421-094-00 (LARIMER COUNTY ROAD 72)\DRAWINGS\ENGINEERING PLANS
FILE NAME:	1421-094-00 XS.DWG

REVISIONS	
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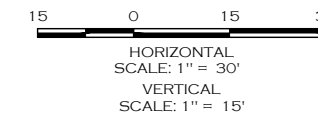
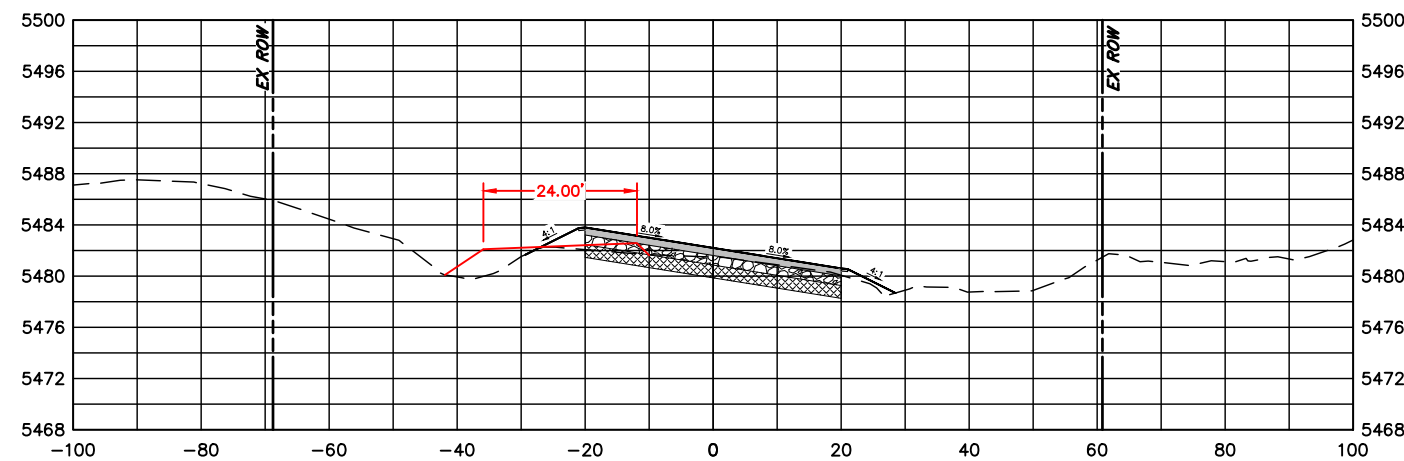
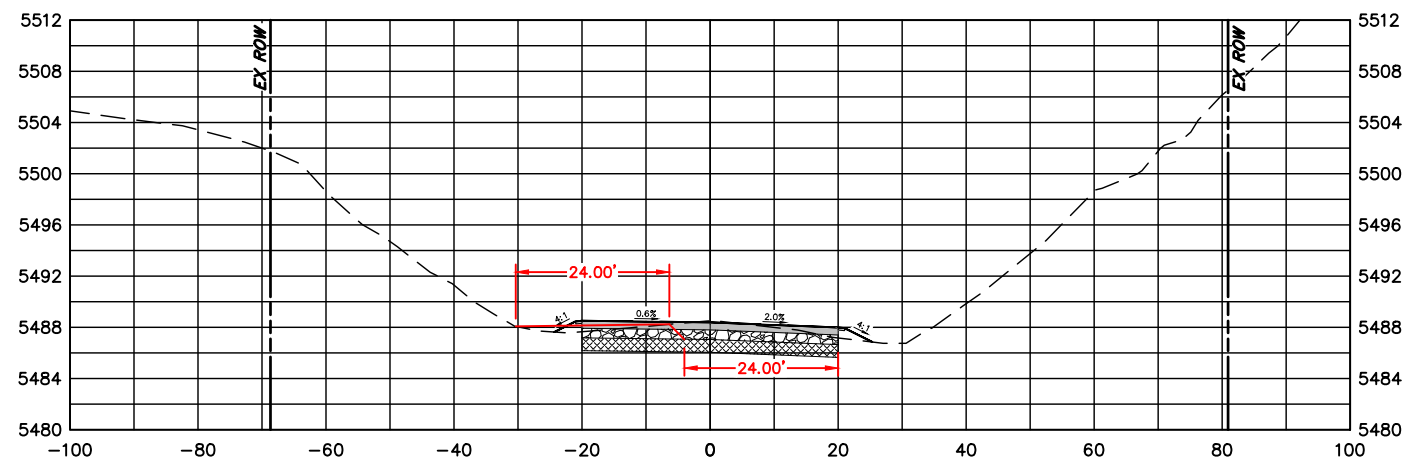
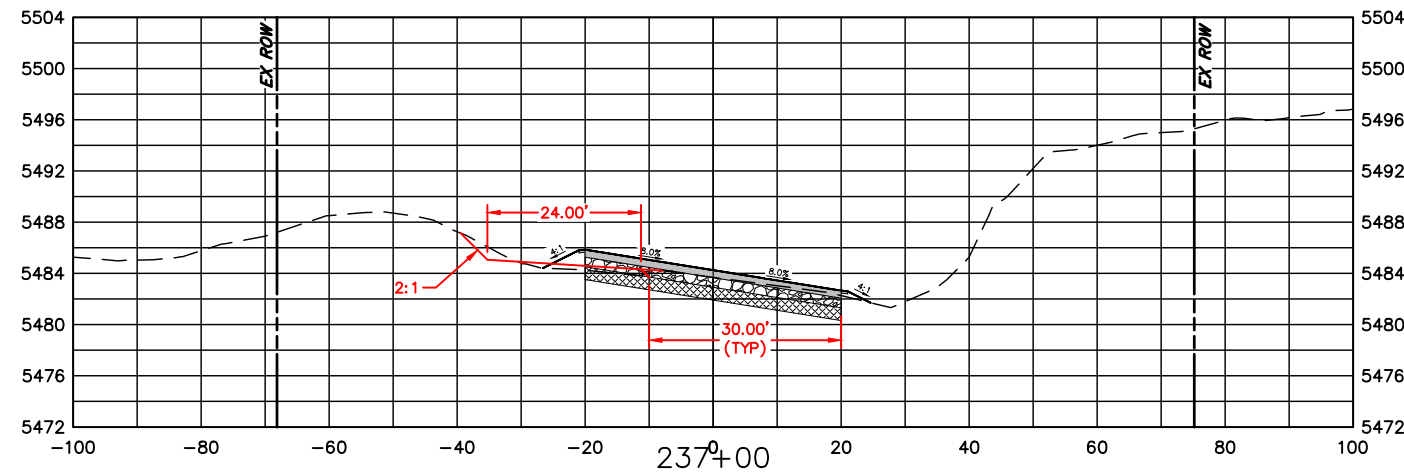
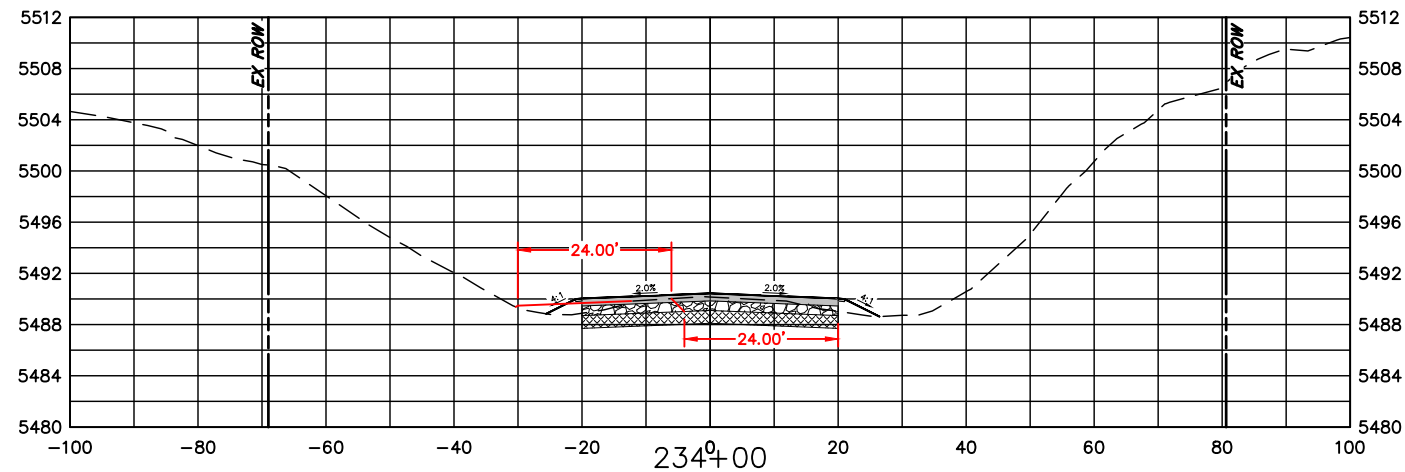
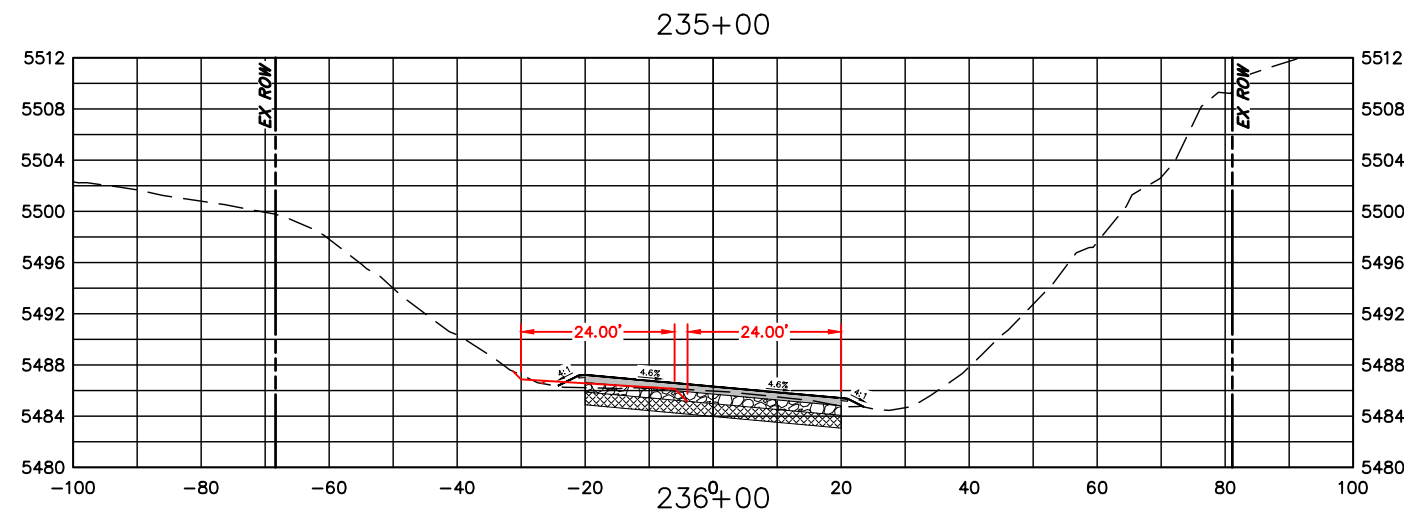
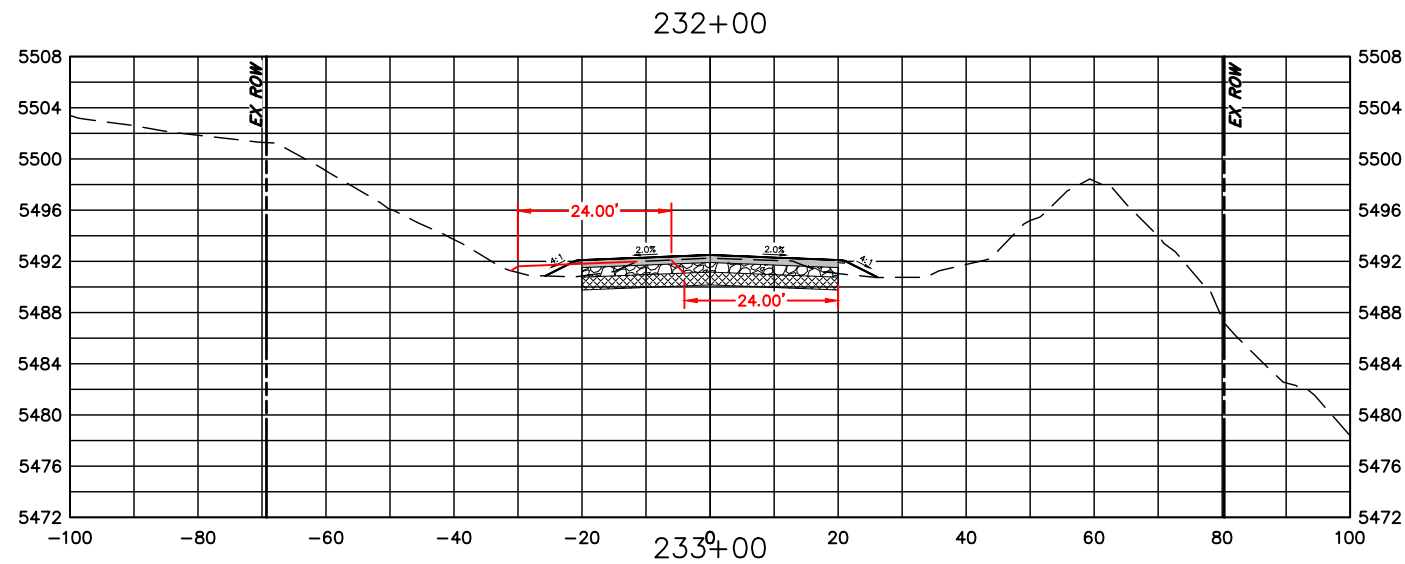


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CROSS SECTIONS
STATION 226+00 TO 231+00

PROJECT NO. 335
LARIMER COUNTY ROAD 72
SHEET NO. 125



COMPUTER INFORMATION	
CREATION DATE:	07/13/20
MODIFICATION DATE:	02/01/21
FILE LOCATION:	INTEREST PROJECTS\2019 PROJECTS\1421-094-00 (LARIMER COUNTY ROAD 72)\DRAWINGS\ENGINEERING PLANS
FILE NAME:	1421-094-00 XS.DWG

REVISIONS	
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(R-2)	
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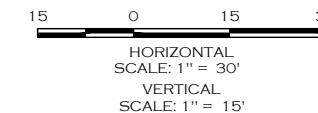
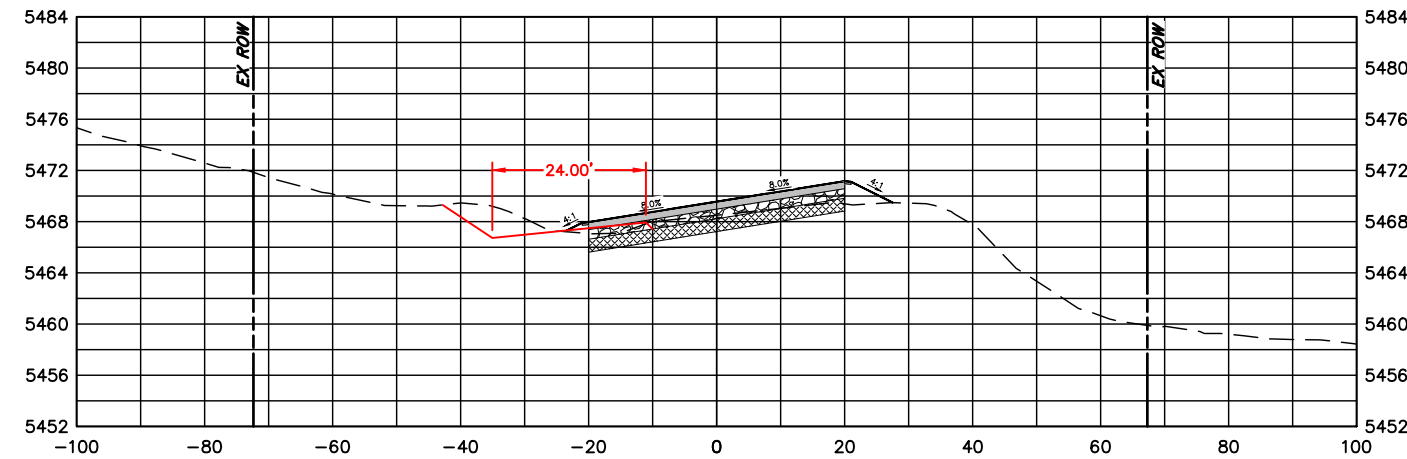
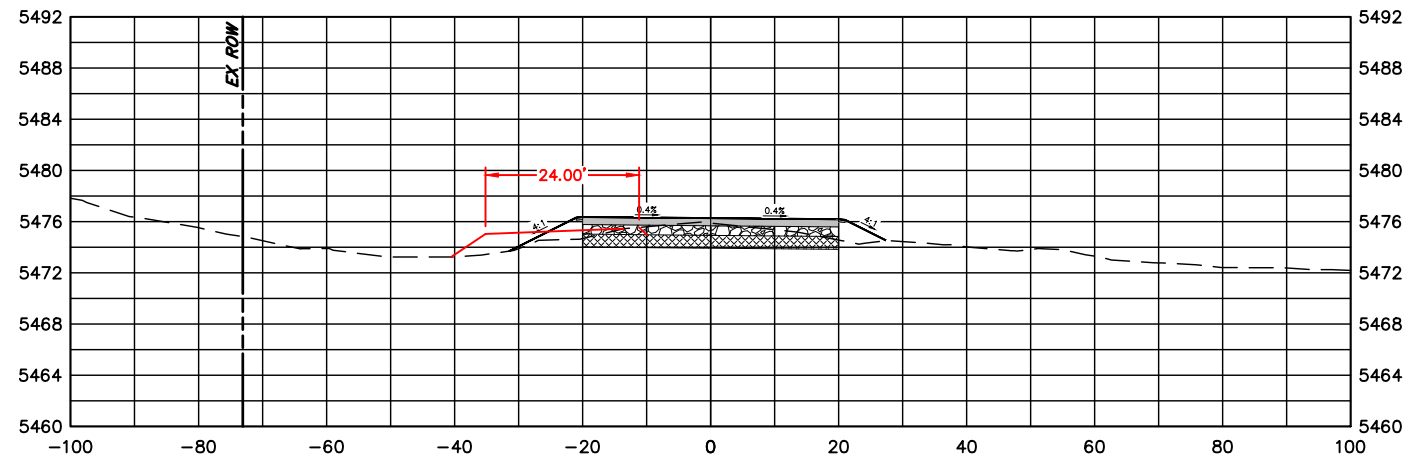
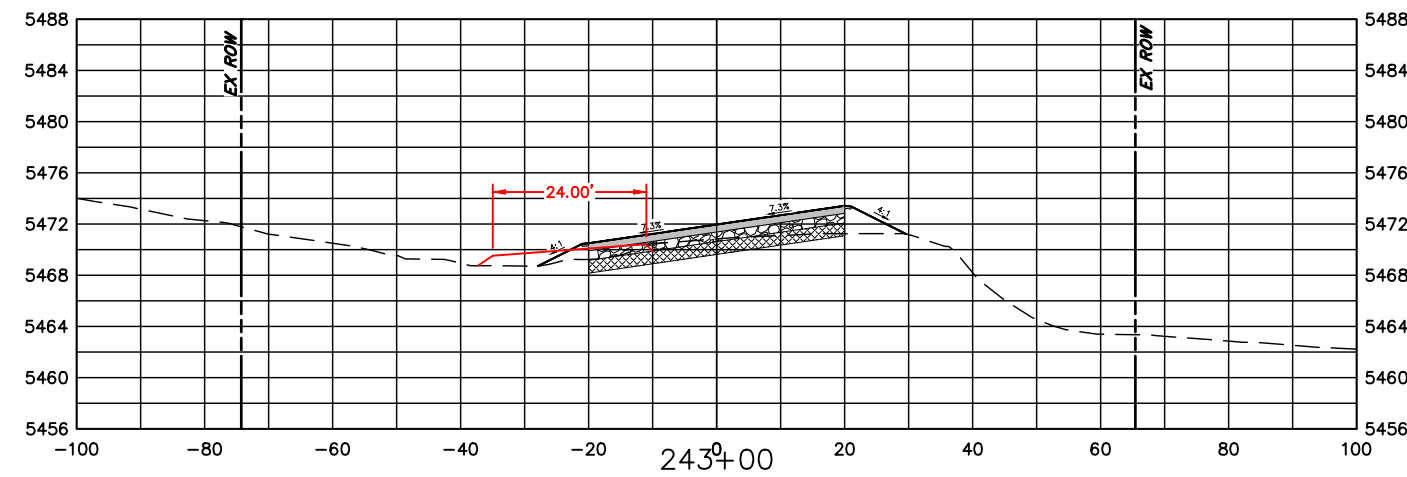
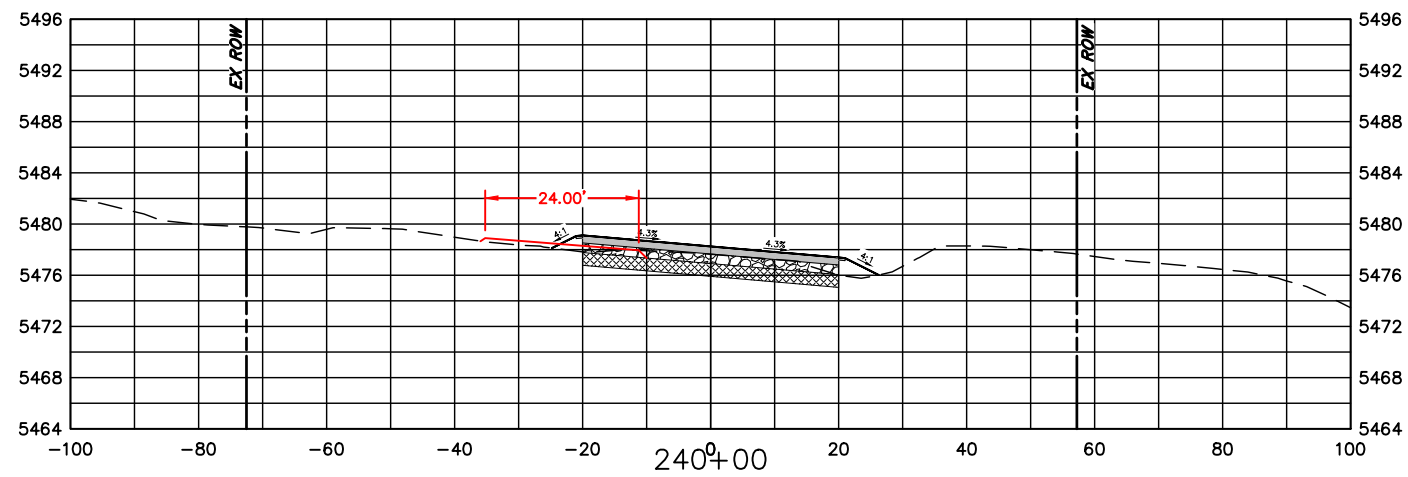
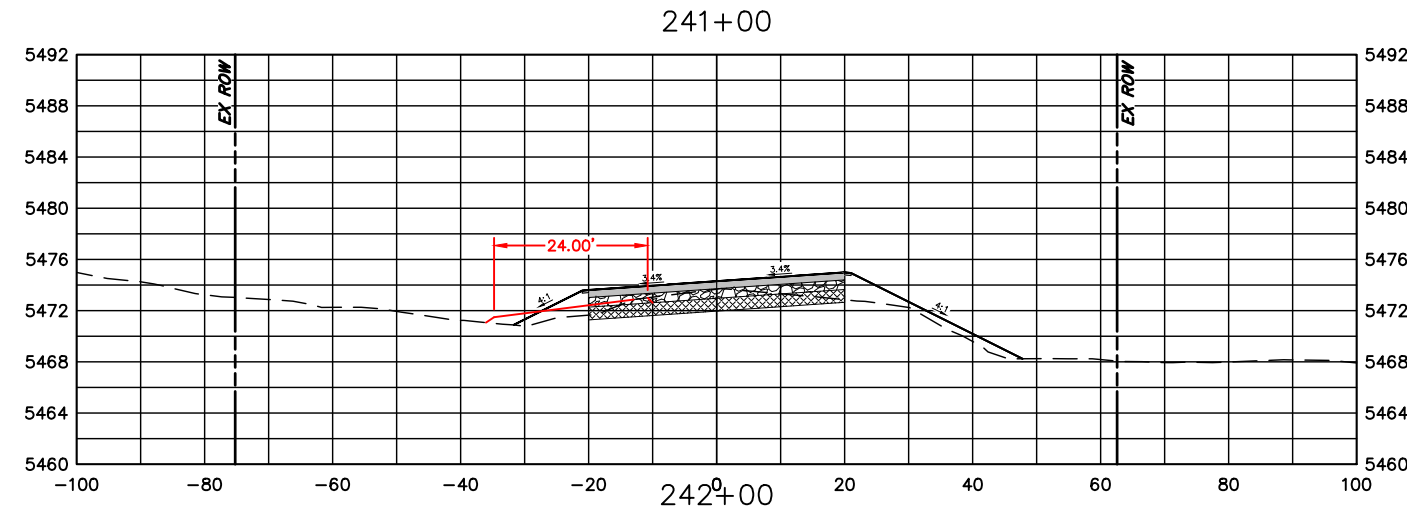
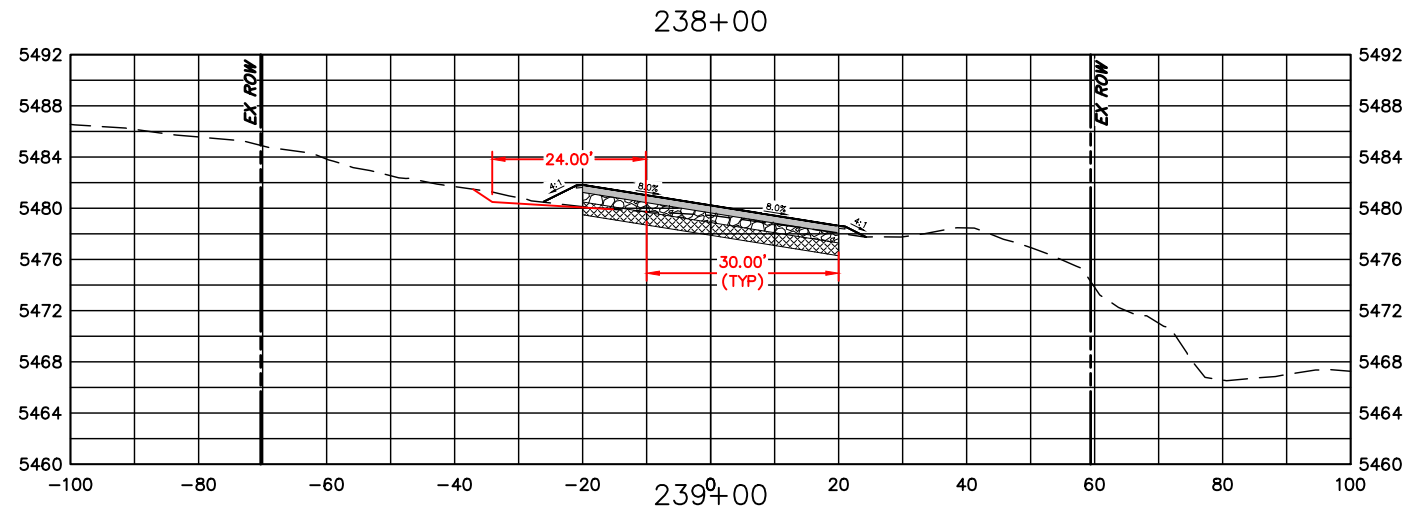


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**CROSS SECTIONS
 STATION 232+00 TO 237+00**

PROJECT NO. 335
LARIMER COUNTY ROAD 72
SHEET NO. 126



COMPUTER INFORMATION	
CREATION DATE:	07/13/20
MODIFICATION DATE:	02/01/21
FILE LOCATION:	INTEREST PROJECTS\2019 PROJECTS\1421-094-00 (LARIMER COUNTY ROAD 72)\DRAWINGS\ENGINEERING PLANS
FILE NAME:	1421-094-00 XS.DWG

REVISIONS	
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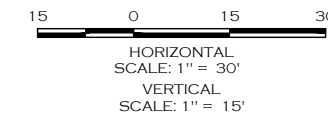
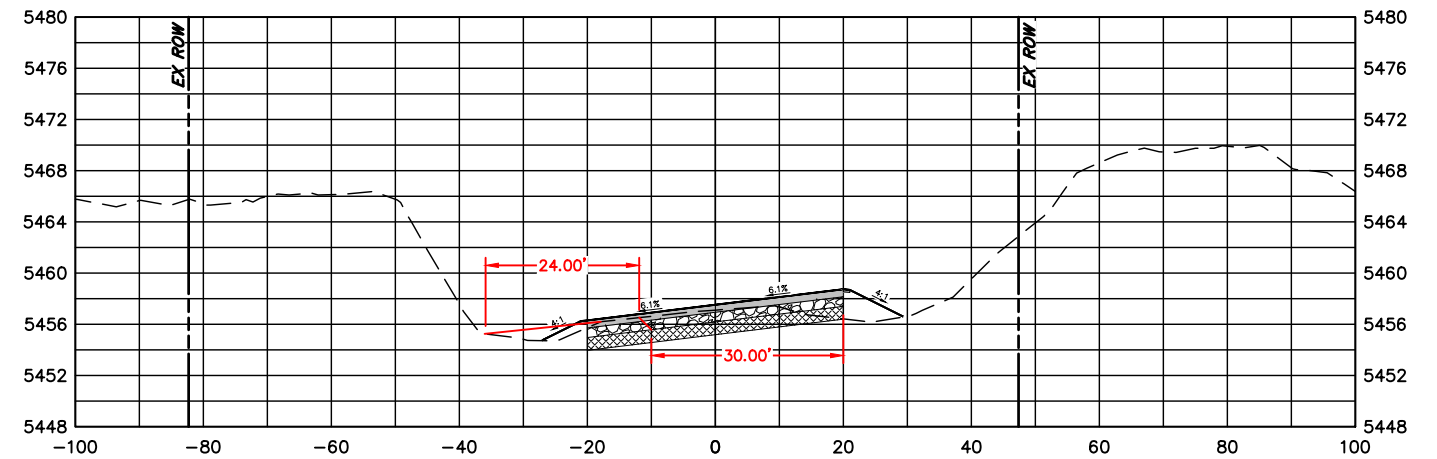
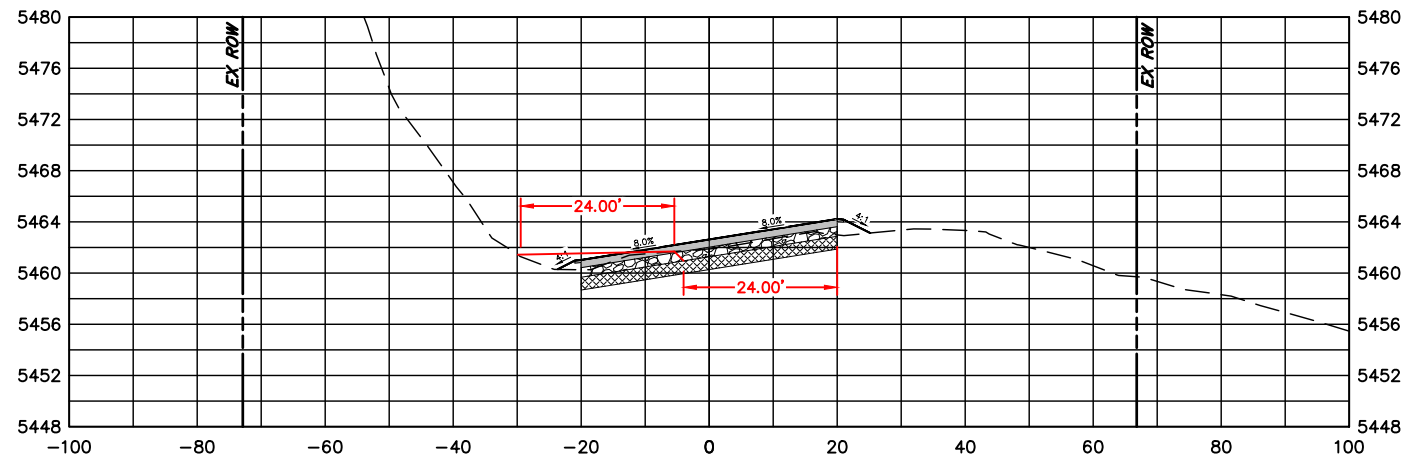
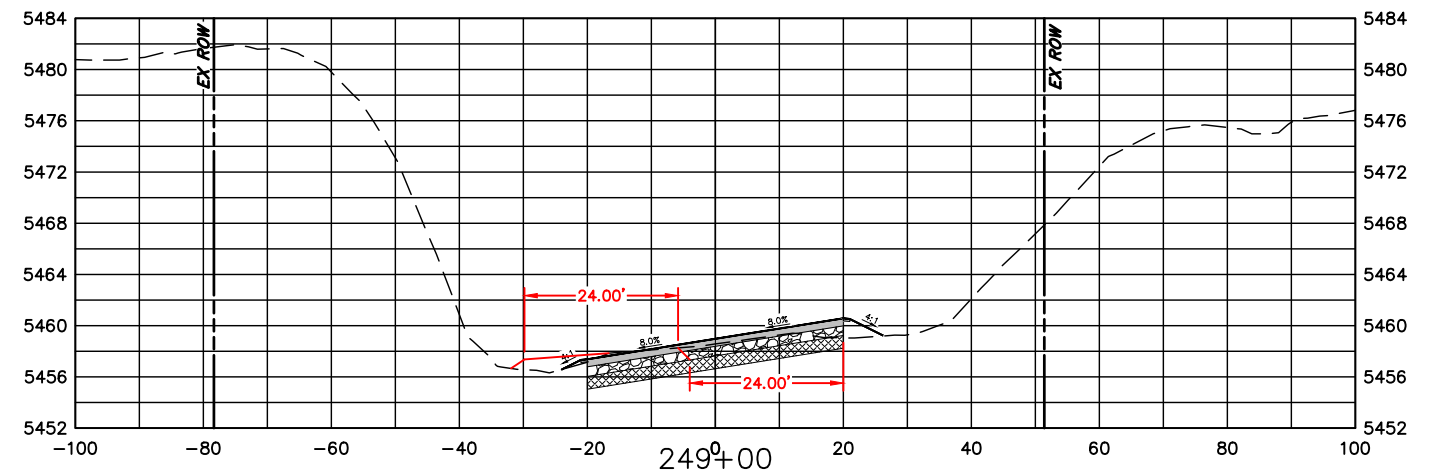
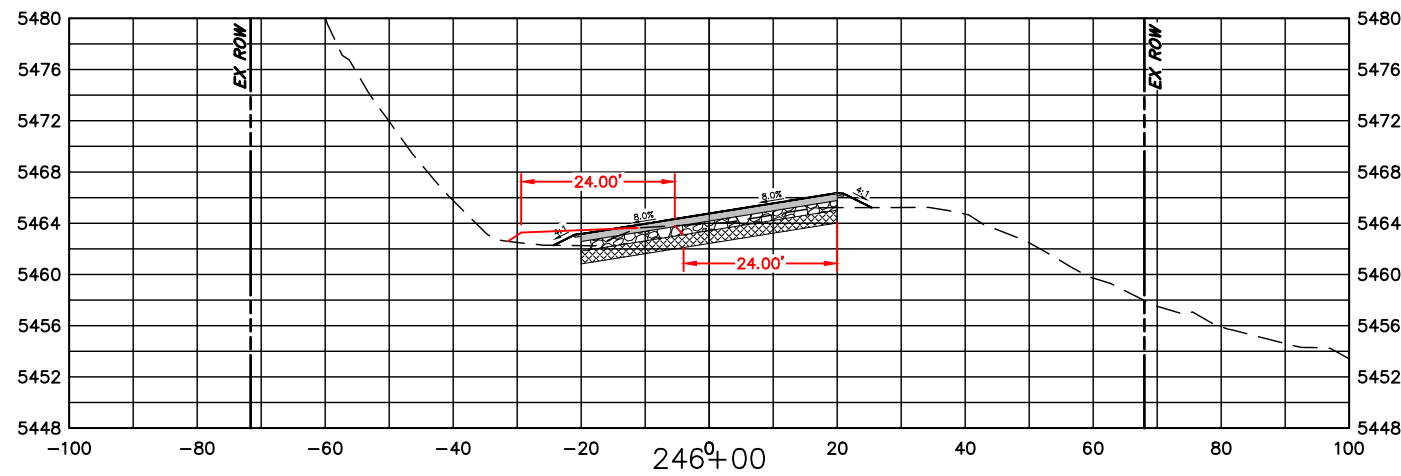
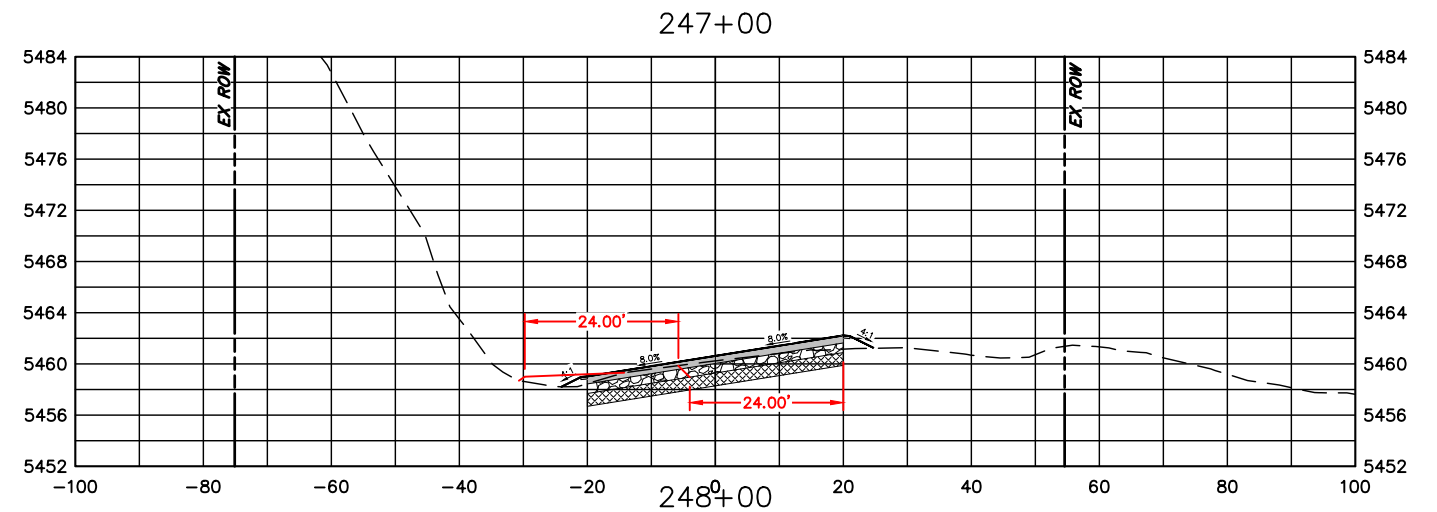
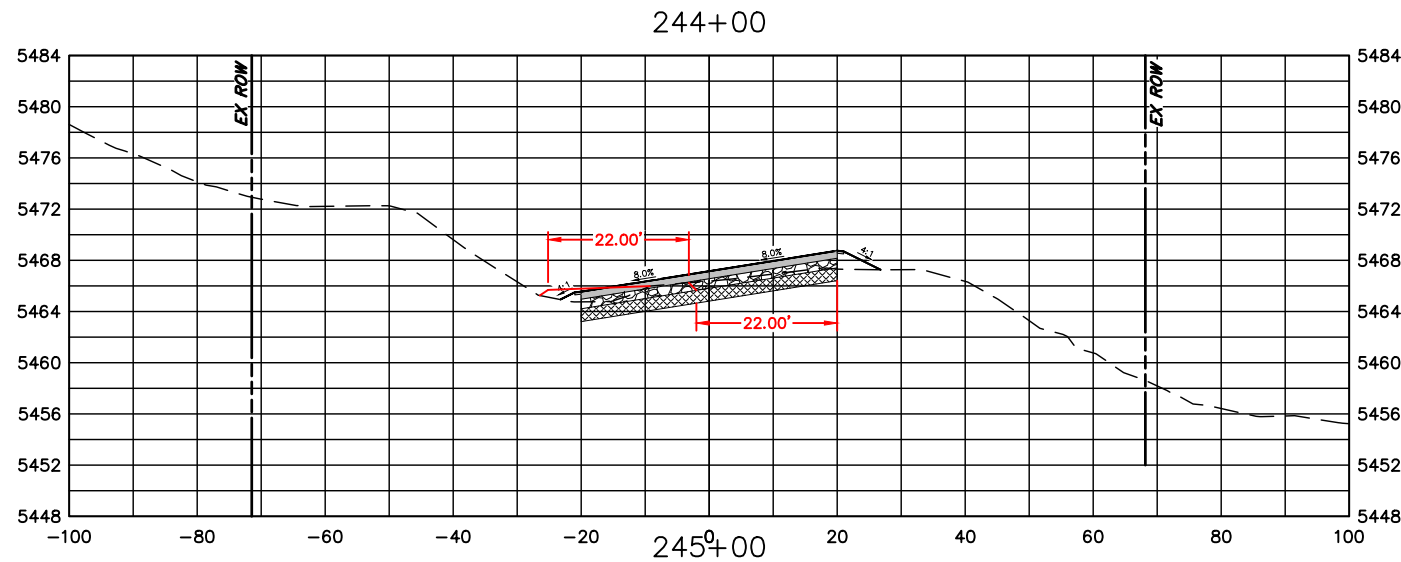


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CROSS SECTIONS
STATION 238+00 TO 243+00

PROJECT NO. 335
LARIMER COUNTY ROAD 72
SHEET NO. 127



COMPUTER INFORMATION	
CREATION DATE:	07/13/20
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FILE LOCATION:	INTEREST PROJECTS\2019 PROJECTS\1421-094-00 (LARIMER COUNTY ROAD 72)\DRAWINGS\ENGINEERING PLANS
FILE NAME:	1421-094-00 XS.DWG

REVISIONS	
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(R-3)	
(R-4)	
(R-5)	

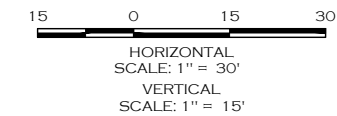
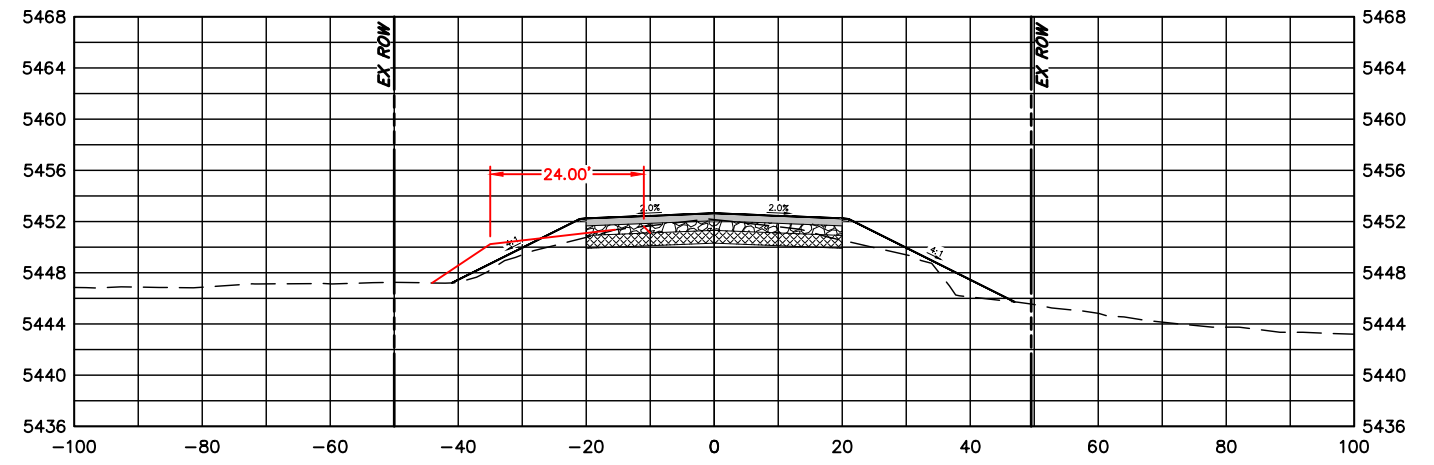
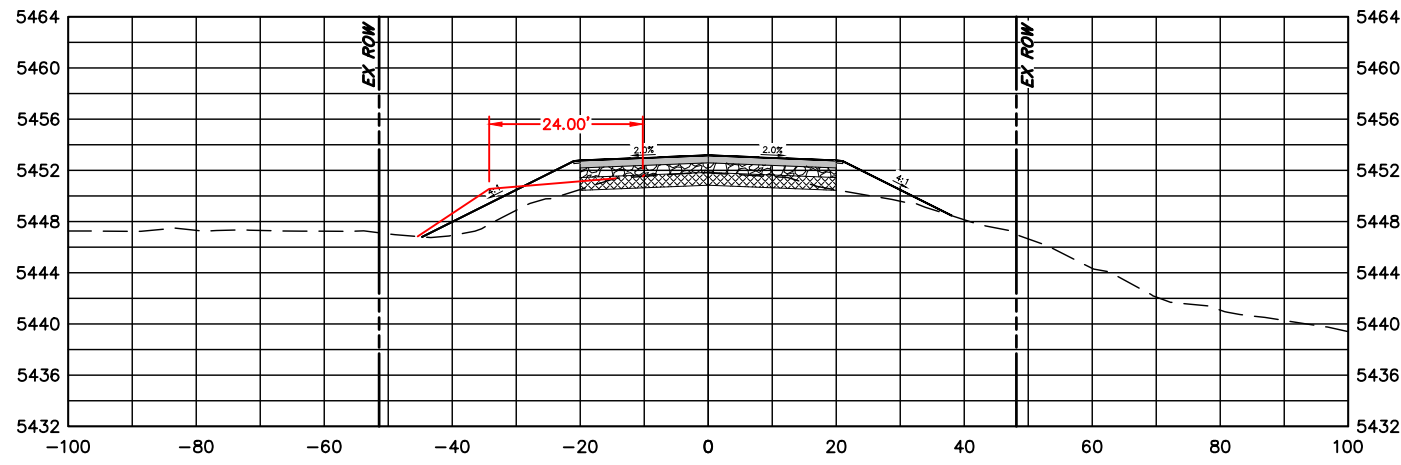
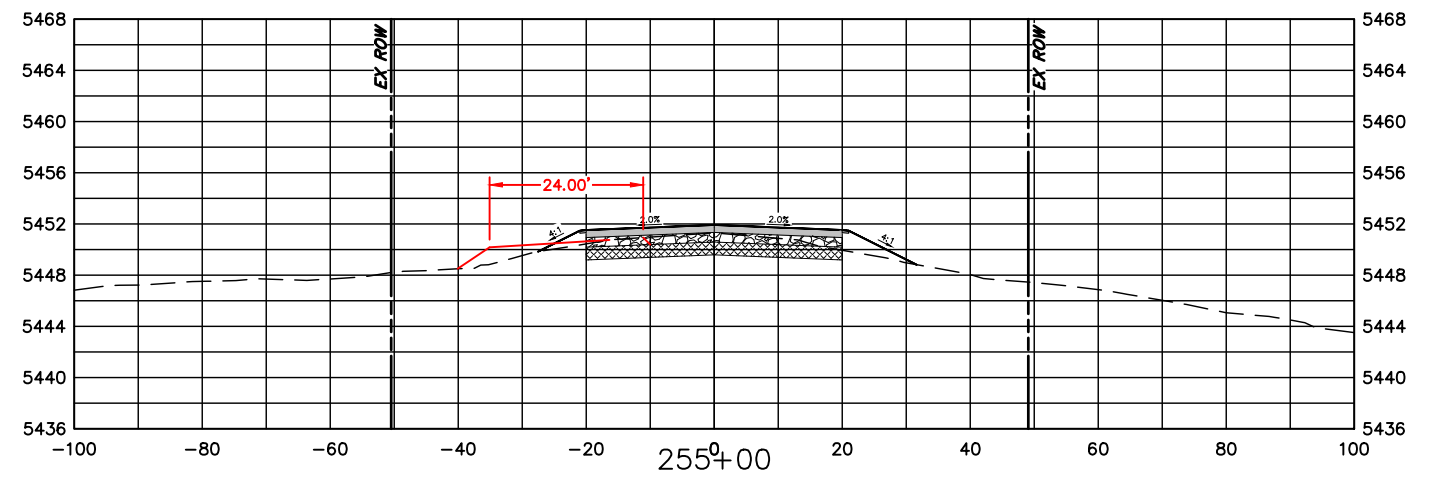
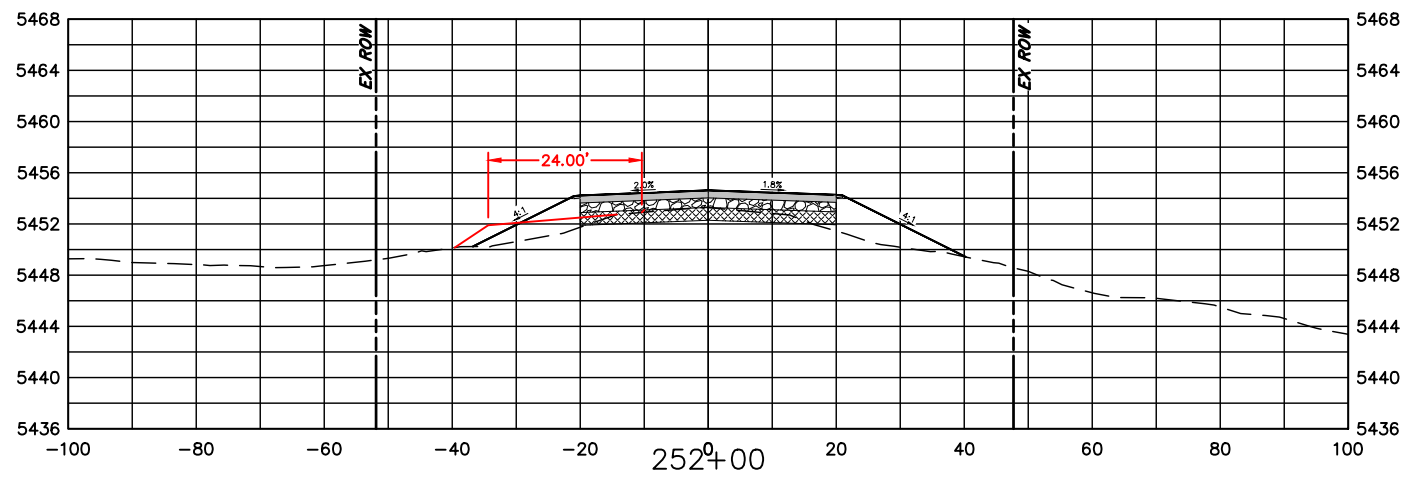
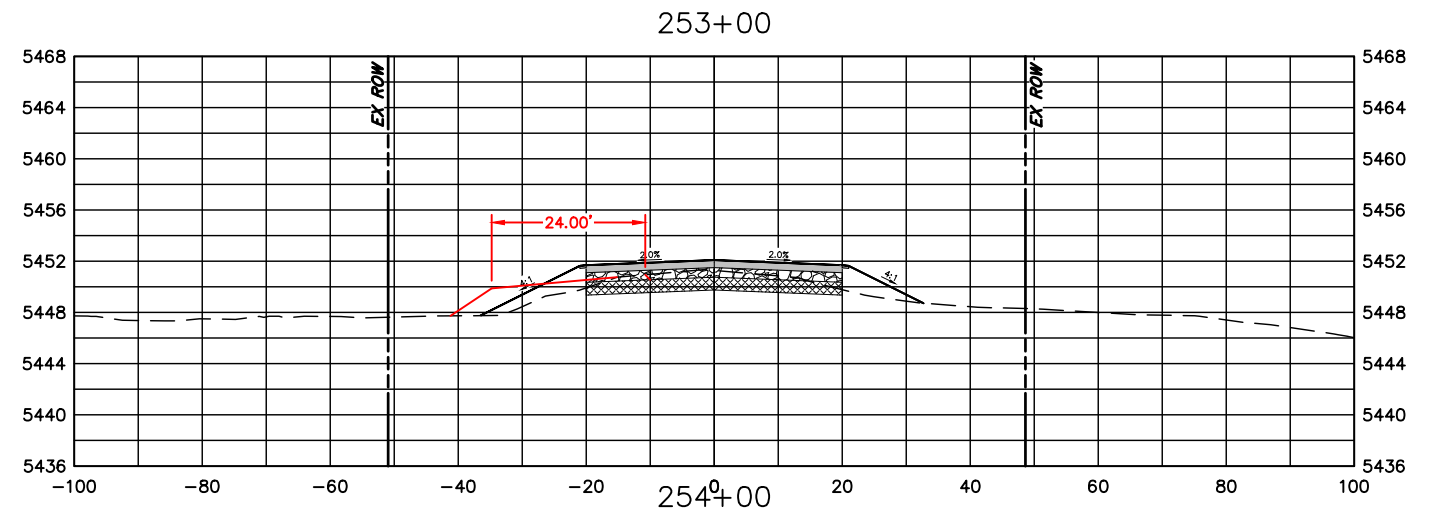
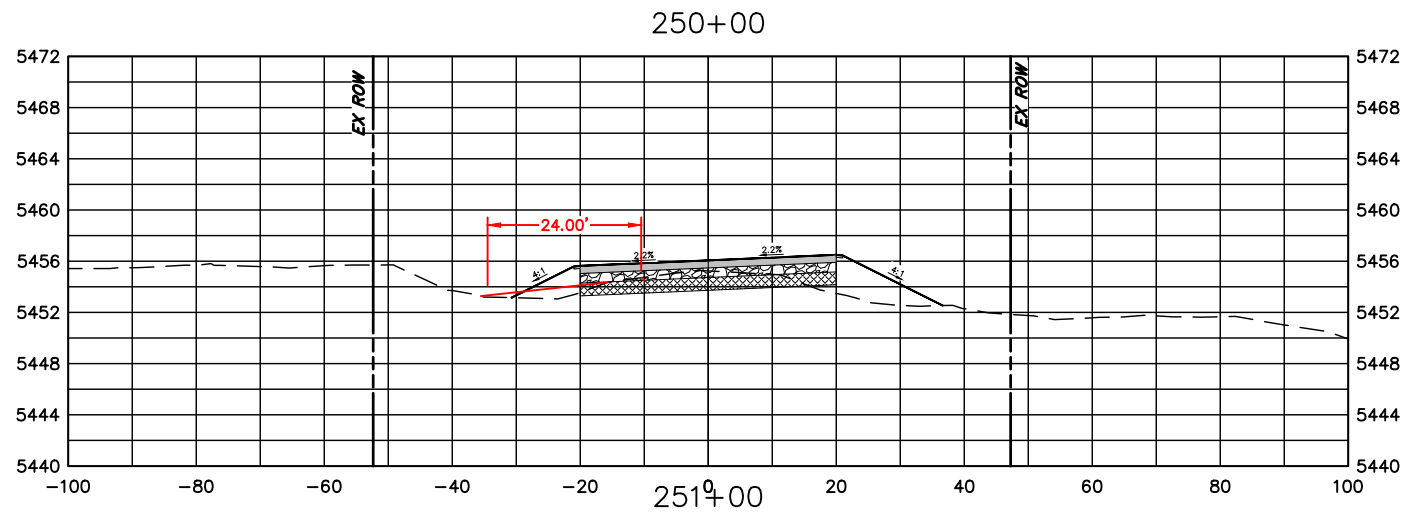


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**CROSS SECTIONS
 STATION 244+00 TO 249+00**

PROJECT NO. 335
LARIMER COUNTY ROAD 72
SHEET NO. 128



COMPUTER INFORMATION	
CREATION DATE:	07/13/20
MODIFICATION DATE:	02/01/21
FILE LOCATION:	INTEREST PROJECTS\2019 PROJECTS\1421-094-00 (LARIMER COUNTY ROAD 72)\DRAWINGS\ENGINEERING PLANS
FILE NAME:	1421-094-00 XS.DWG

REVISIONS	
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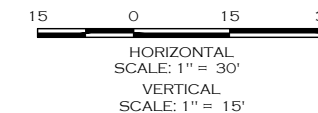
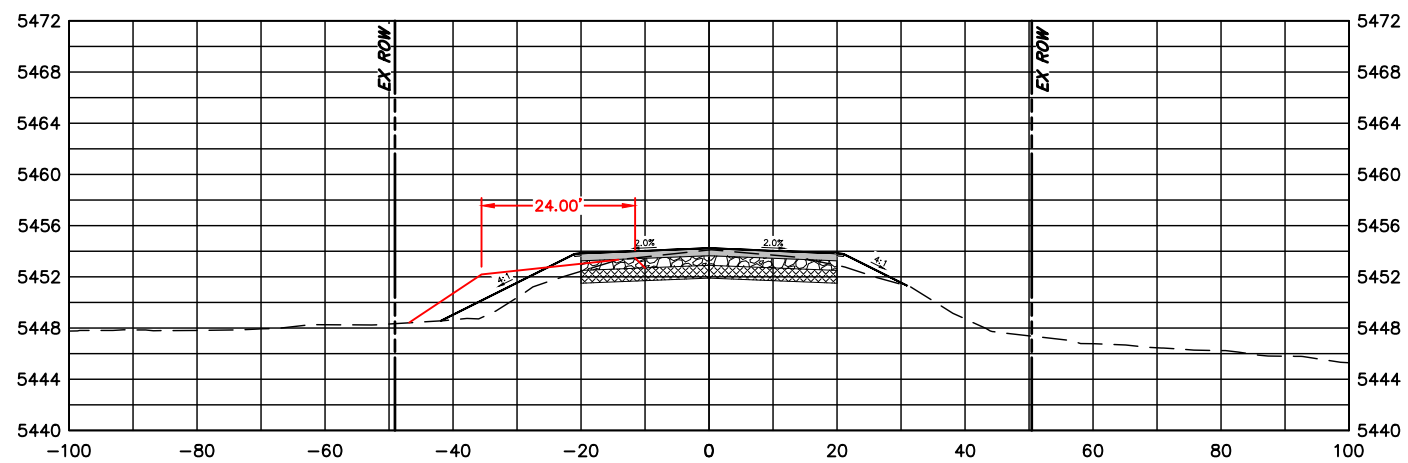
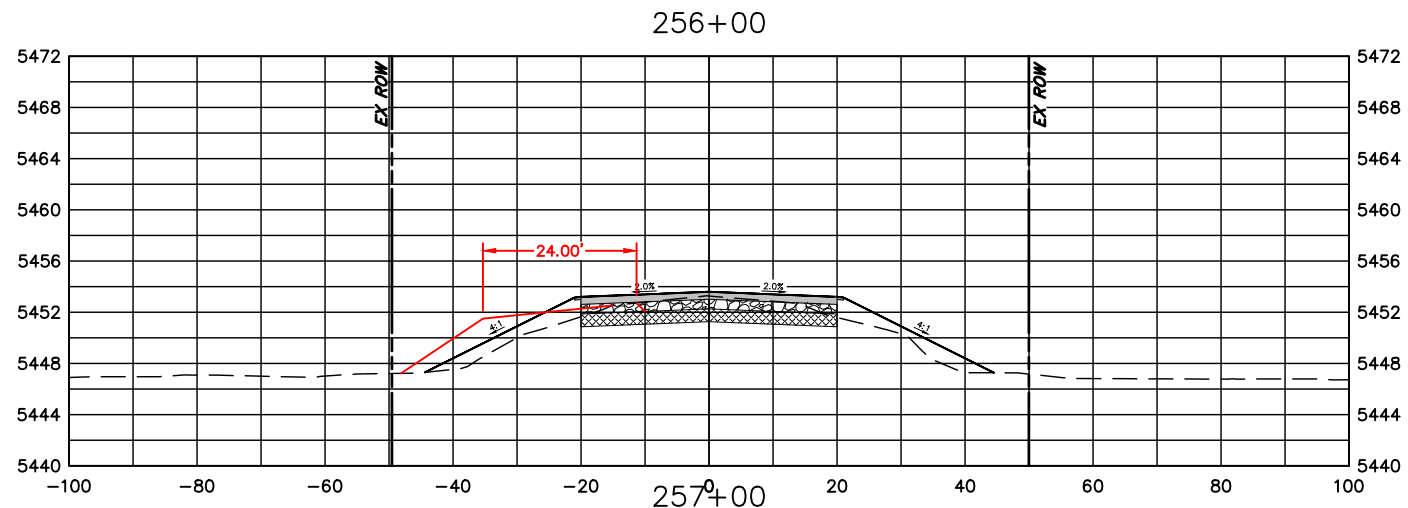


ENGINEERING DEPARTMENT
 200 WEST OAK, SUITE 3000
 POST OFFICE BOX 1190
 FORT COLLINS, COLORADO 80522-1190
 (970)498-5700
 (970)498-7986 FAX

AS CONSTRUCTED
NO REVISIONS:
REVISED:
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CROSS SECTIONS
STATION 250+00 TO 255+00

PROJECT NO. 335
LARIMER COUNTY ROAD 72
SHEET NO. 129



COMPUTER INFORMATION	
CREATION DATE:	07/13/20
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FILE LOCATION:	INTEREST PROJECTS\2019 PROJECTS\1421-094-00 (LARIMER COUNTY ROAD 72)\DRAWINGS\ENGINEERING PLANS
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REVISIONS	
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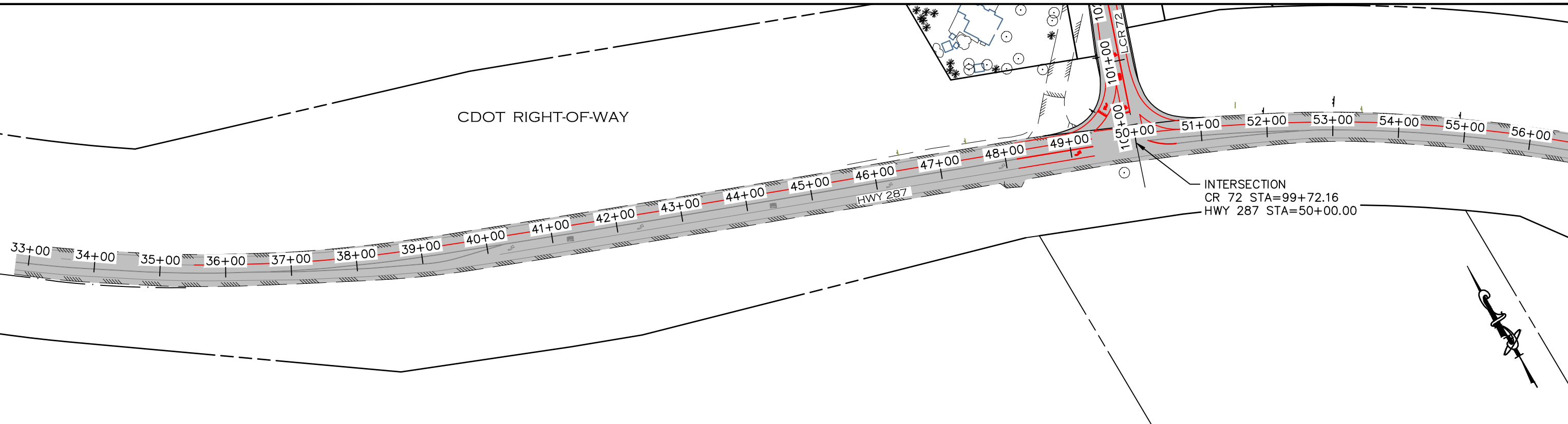
ENGINEERING DEPARTMENT
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CROSS SECTIONS
STATION 256+00 TO 257+00

PROJECT NO. 335	
LARIMER COUNTY ROAD 72	
SHEET NO.	130

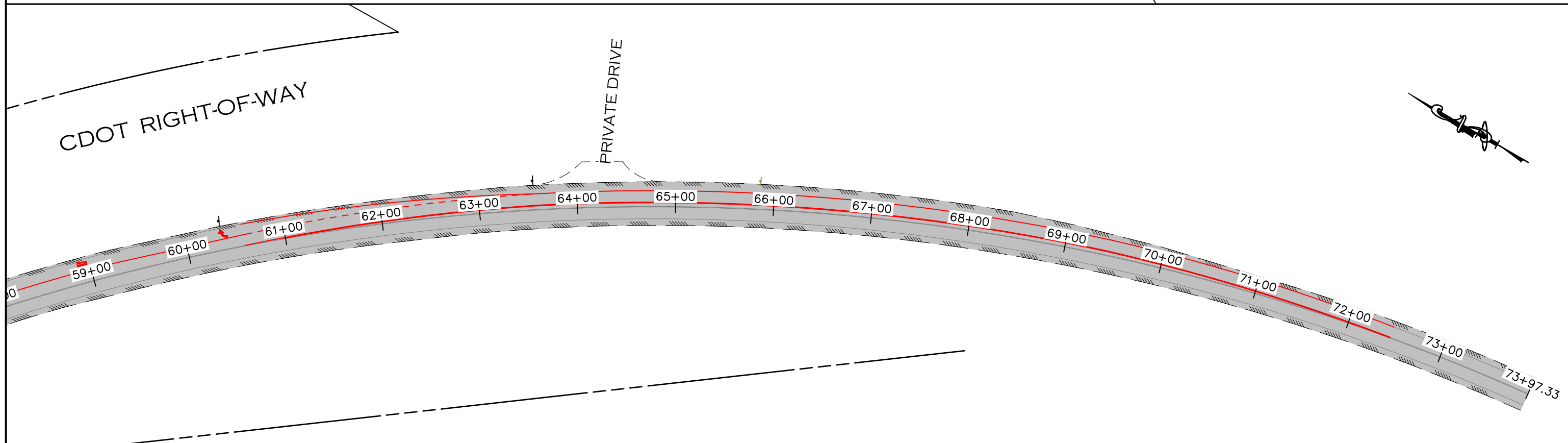
CDOT RIGHT-OF-WAY



INTERSECTION
CR 72 STA=99+72.16
HWY 287 STA=50+00.00

CDOT RIGHT-OF-WAY

PRIVATE DRIVE



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COMPUTER INFORMATION	
CREATION DATE:	07/13/20
MODIFICATION DATE:	01/07/21
FILE LOCATION:	INTEREST PROJECTS\2019 PROJECTS\1421-094-00 (LARIMER COUNTY ROAD 72)\DRAWINGS\ENGINEERING PLANS
FILE NAME:	1421-094-00 287 STRIPING.DWG

REVISIONS	
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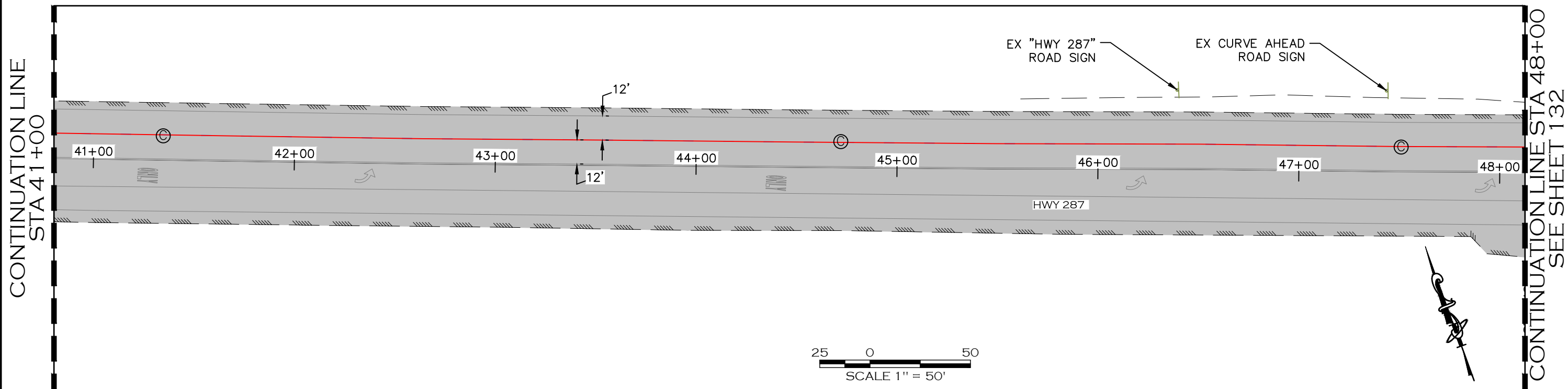
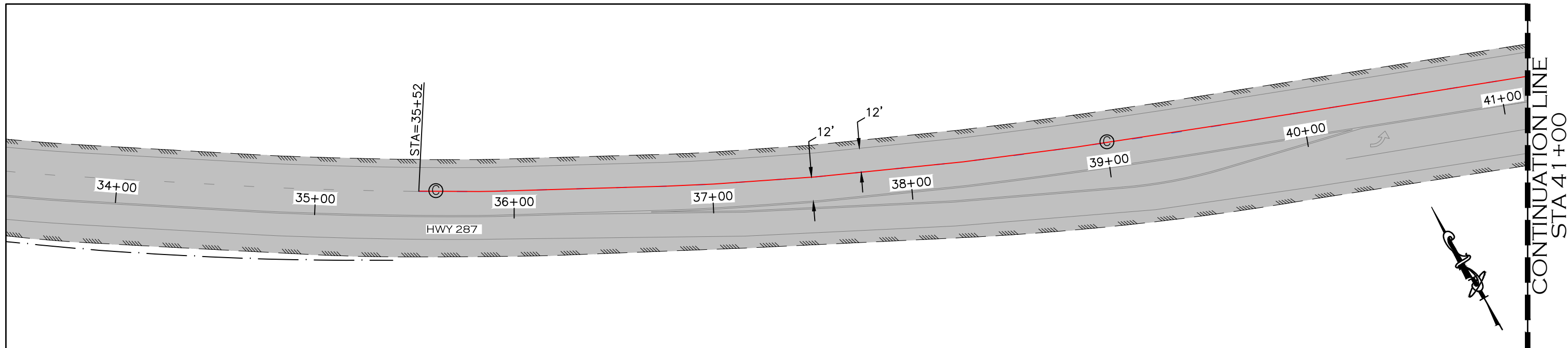


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**HWY 287 SIGNING & STRIPING
PLAN (OVERALL)**

PROJECT NO. 335
LARIMER COUNTY ROAD 72
SHEET NO. 131



NOTES:

1. STOP BARS AND TURN ARROWS SHALL BE PREFORMED THERMOPLASTIC PAVEMENT MARKINGS AND CONFORM TO CDOT STANDARD SPECIFICATION SECTION 627.
2. PAVEMENT MARKING ON HWY 287 SHALL BE PAINT AND CONFORM TO CDOT STANDARD SPECIFICATION SECTION 627 AND S-627-1.
3. CENTERLINE STRIPING AND SHOULDER STRIPING ON COUNTY ROAD 72 IS SHOWN FOR REFERENCE ONLY. ROADWAY STRIPING ON COUNTY ROAD 72 SHALL BE PROVIDED BY LARIMER COUNTY FORCES.
4. TRAFFIC CONTROL, PERMITS, AND FEES ASSOCIATED WITH THE WORK ON HWY 287 IS THE RESPONSIBILITY OF THE CONTRACTOR.
5. EXISTING CDOT SIGNAGE TO BE REMOVED SHALL BE SALVAGED AND TAKEN TO CDOT'S LIVERMORE SHOP AT HWY 287 AND CR74E.
6. METHOD FOR REMOVAL OF EXISTING PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH CDOT SPECIFICATIONS AND PERMIT CONDITIONS.
7. ALL SURFACES SHALL BE THOROUGHLY CLEANED PRIOR TO INSTALLATION OF STRIPING OR MARKING.

STRIPING LEGEND

- (A) SOLID WHITE LINE 6" WIDE
- (B) DOUBLE YELLOW LANE LINE 4" WIDE
- (C) SOLID WHITE LINE 8" WIDE



CALL UTILITY NOTIFICATION
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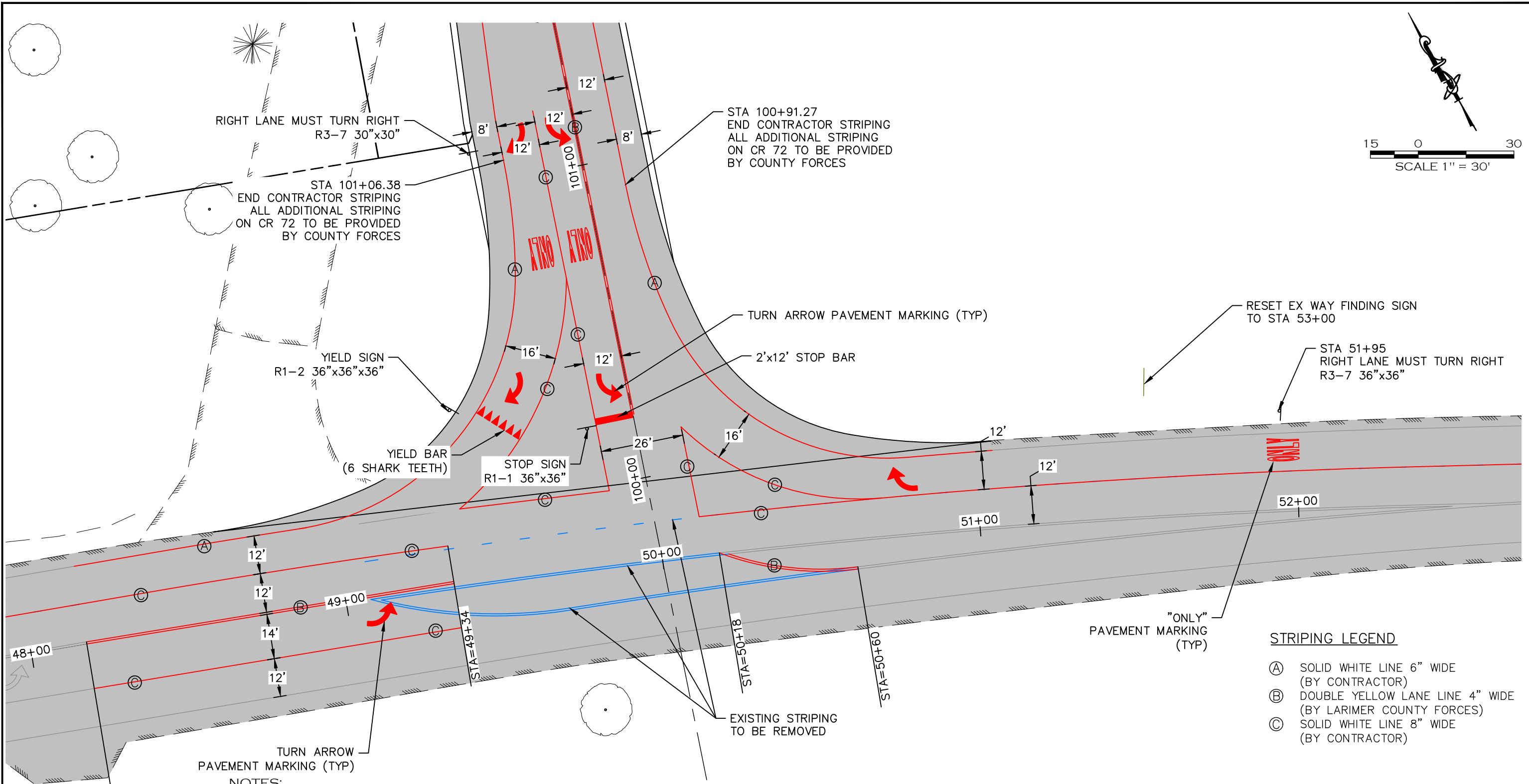


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HWY 287 SIGNING & STRIPING PLAN

PROJECT NO. 335
LARIMER COUNTY ROAD 72
SHEET NO. 132



NOTES:

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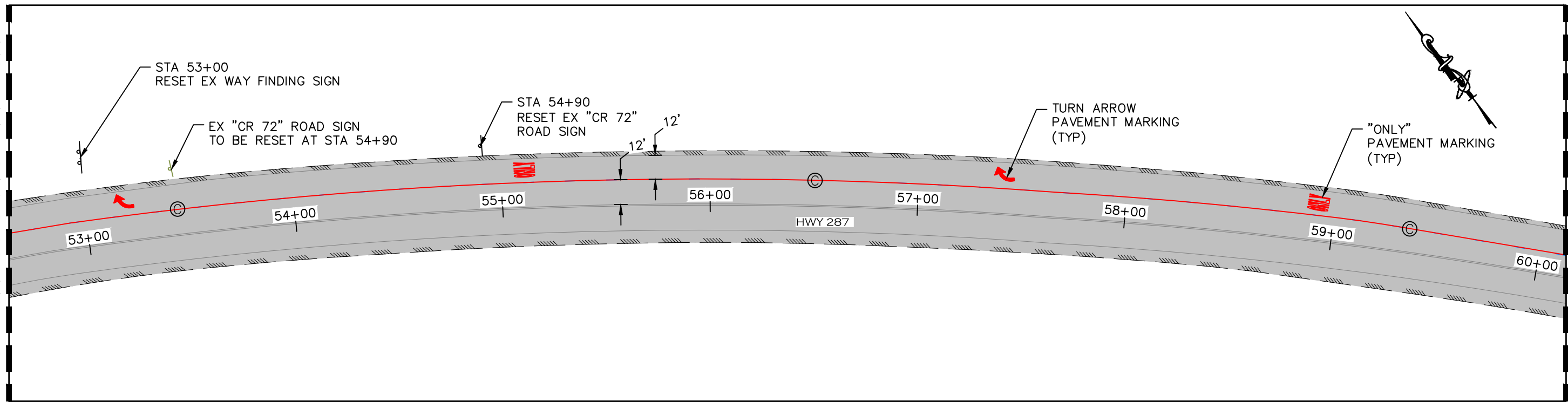
- (A) SOLID WHITE LINE 6" WIDE (BY CONTRACTOR)
- (B) DOUBLE YELLOW LANE LINE 4" WIDE (BY LARIMER COUNTY FORCES)
- (C) SOLID WHITE LINE 8" WIDE (BY CONTRACTOR)



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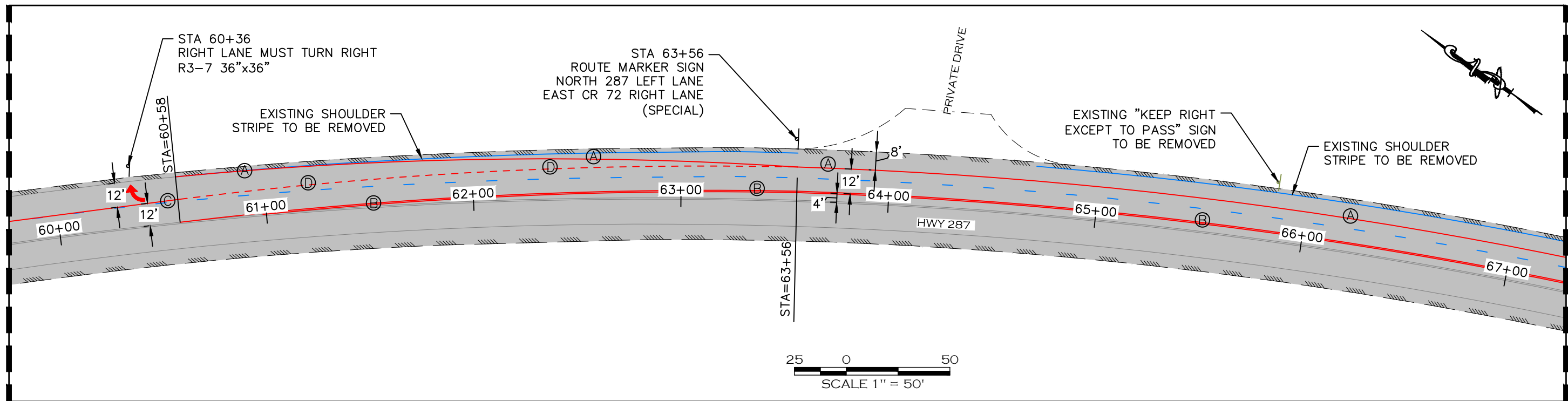
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	MODIFICATION DATE: 01/07/21			200 WEST OAK, SUITE 3000	NO REVISIONS:	LARIMER COUNTY ROAD 72
	FILE LOCATION: INTEREST PROJECTS\2019 PROJECTS\1421-094-00 (LARIMER COUNTY ROAD 72)\DRAWINGS\ENGINEERING PLANS			FORT COLLINS, COLORADO 80522-1190	REVISED:	SHEET NO. 133
	FILE NAME: 1421-094-00 287 STRIPING.DWG			(970)498-5700	VOID:	
				(970)498-7986 FAX		

CONTINUATION LINE
STA 52+50 SEE SHEET 132



CONTINUATION LINE
STA 60+00

CONTINUATION LINE
STA 60+00



CONTINUATION LINE
STA 67+00 SEE SHEET 134

NOTES:

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- (B) DOUBLE YELLOW LANE LINE 4" WIDE
- (C) SOLID WHITE LINE 8" WIDE
- (D) 8" DOTTED WHITE EXTENSION



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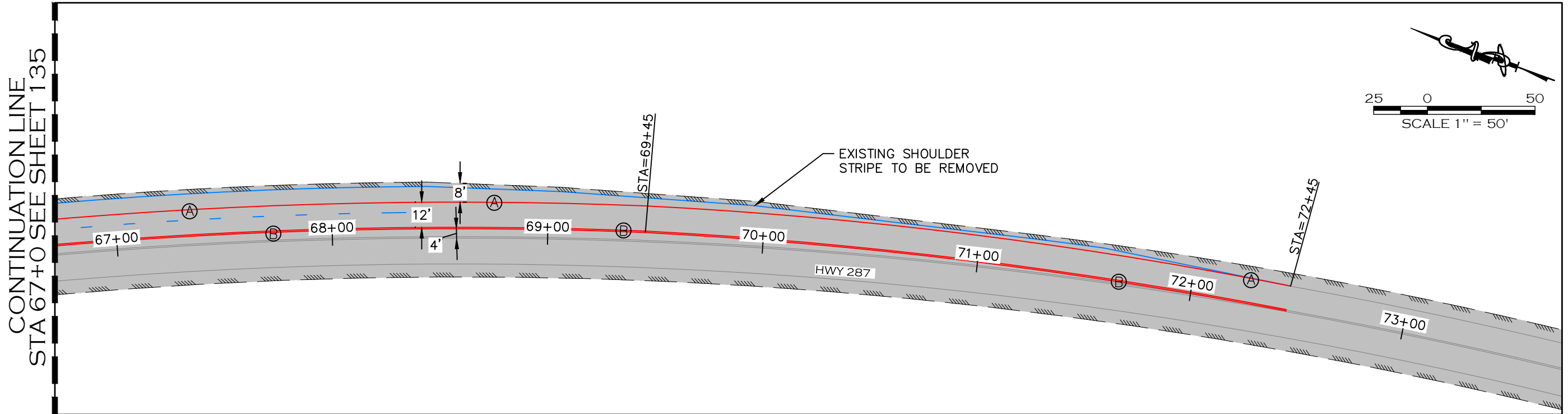


ENGINEERING DEPARTMENT
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POST OFFICE BOX 1190
FORT COLLINS, COLORADO 80522-1190
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(970)498-7986 FAX

AS CONSTRUCTED
NO REVISIONS:
REVISED:
VOID:

HWY 287 SIGNING & STRIPING PLAN

PROJECT NO. 335
LARIMER COUNTY ROAD 72
SHEET NO. 134



NOTES:

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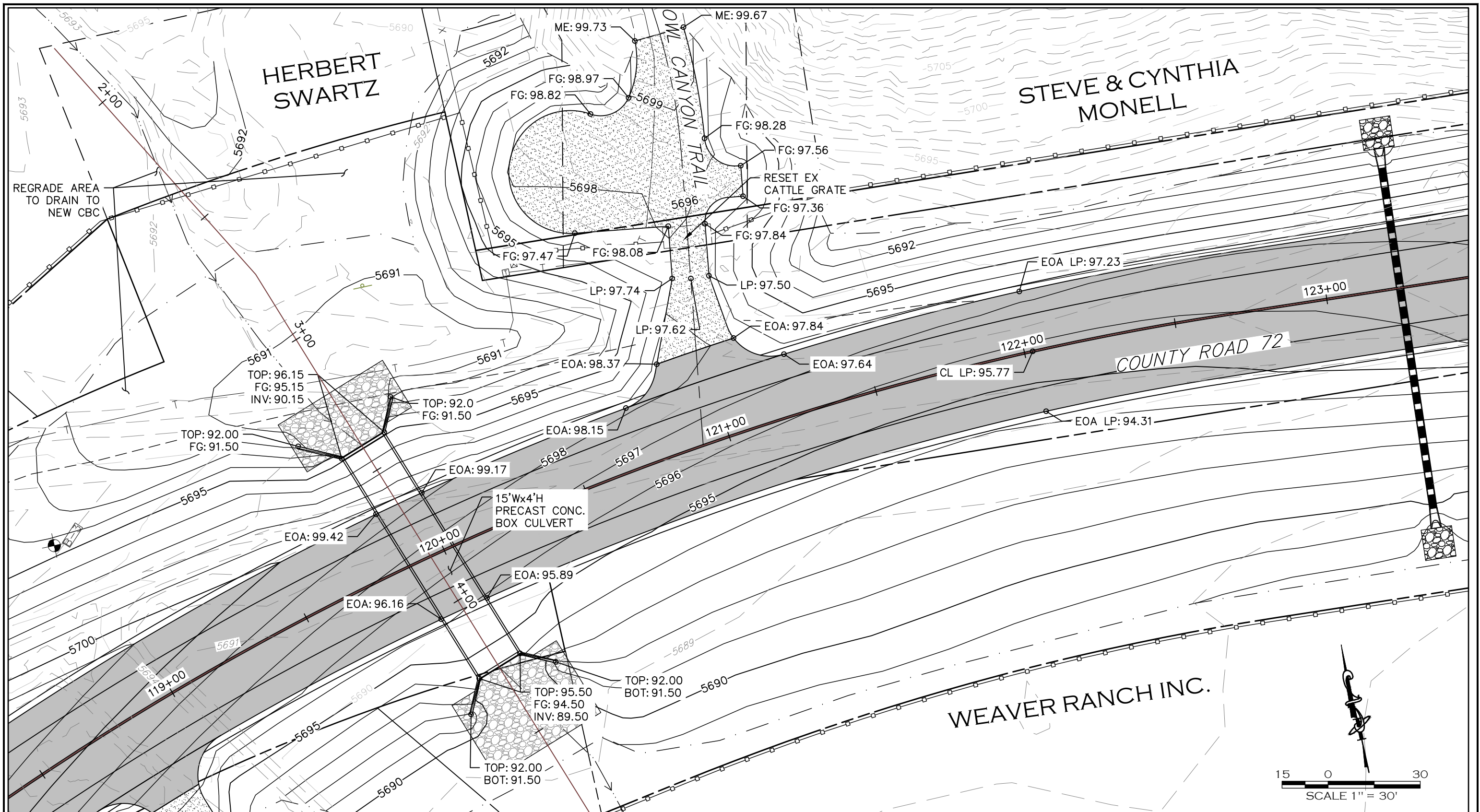
STRIPING LEGEND

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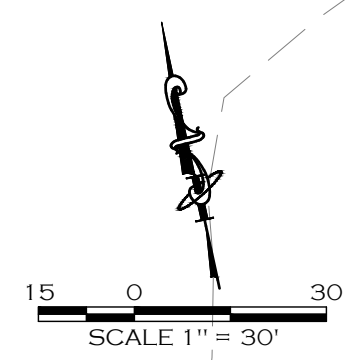


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BEFORE YOU DIG, GRADE, OR EXCAVATE
FOR THE MARKING OF UNDERGROUND
MEMBER UTILITIES.

COMPUTER INFORMATION		REVISIONS		 LARIMER COUNTY ENGINEERING DEPARTMENT 200 WEST OAK, SUITE 3000 POST OFFICE BOX 1190 FORT COLLINS, COLORADO 80522-1190 (970)498-5700 (970)498-7986 FAX	AS CONSTRUCTED	HWY 287 SIGNING & STRIPING PLAN	PROJECT NO. 335
CREATION DATE:	07/13/20	(R-1)			NO REVISIONS:		LARIMER COUNTY ROAD 72
MODIFICATION DATE:	01/07/21	(R-2)			REVISED:		
FILE LOCATION:	INTERWEST PROJECTS\2019 PROJECTS\1421-094-00 (LARIMER COUNTY ROAD 72)\DRAWINGS\ENGINEERING PLANS	(R-3)			VOID:		
FILE NAME:	1421-094-00 287 STRIPING.DWG	(R-4)					SHEET NO. 135



NOTE
 1. SEE SHEET 138 FOR CONCRETE BOX CULVERT NOTES.



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FILE NAME:	1421-094-00 CBC.DWG

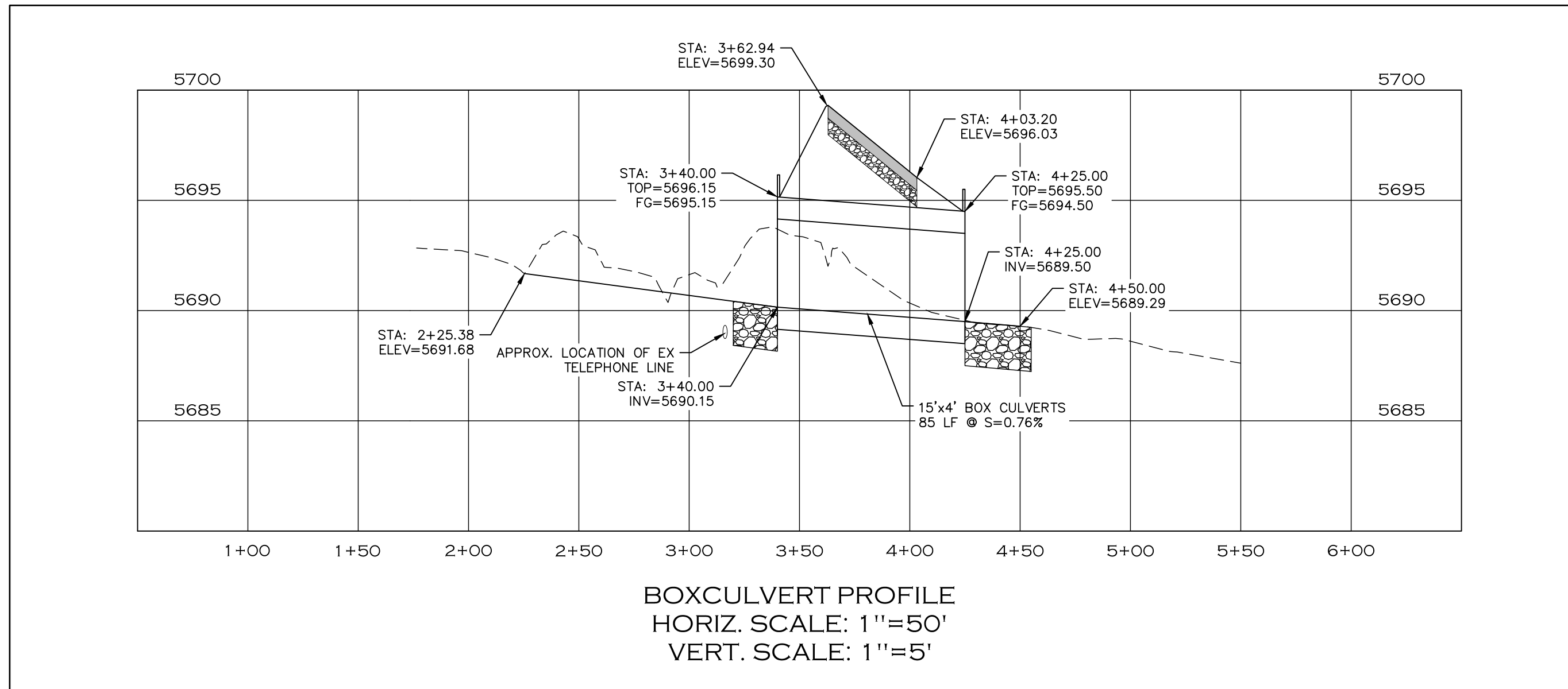
REVISIONS	
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(R-5)	

LARIMER COUNTY
ENGINEERING DEPARTMENT
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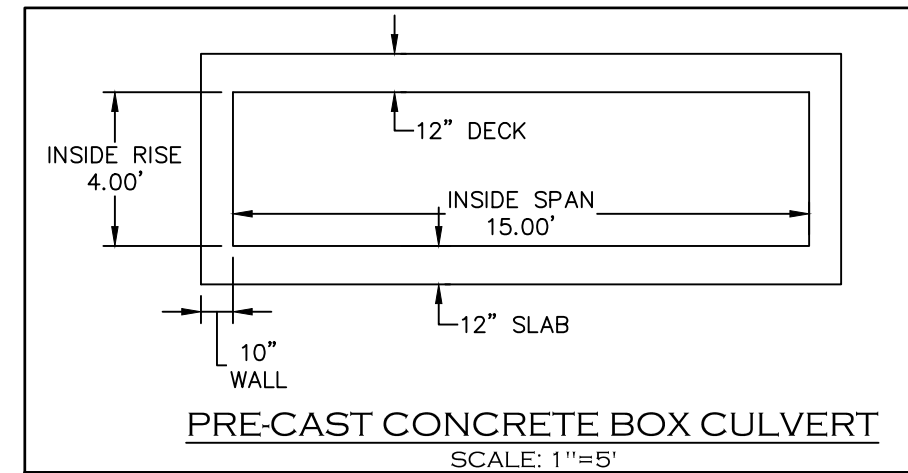
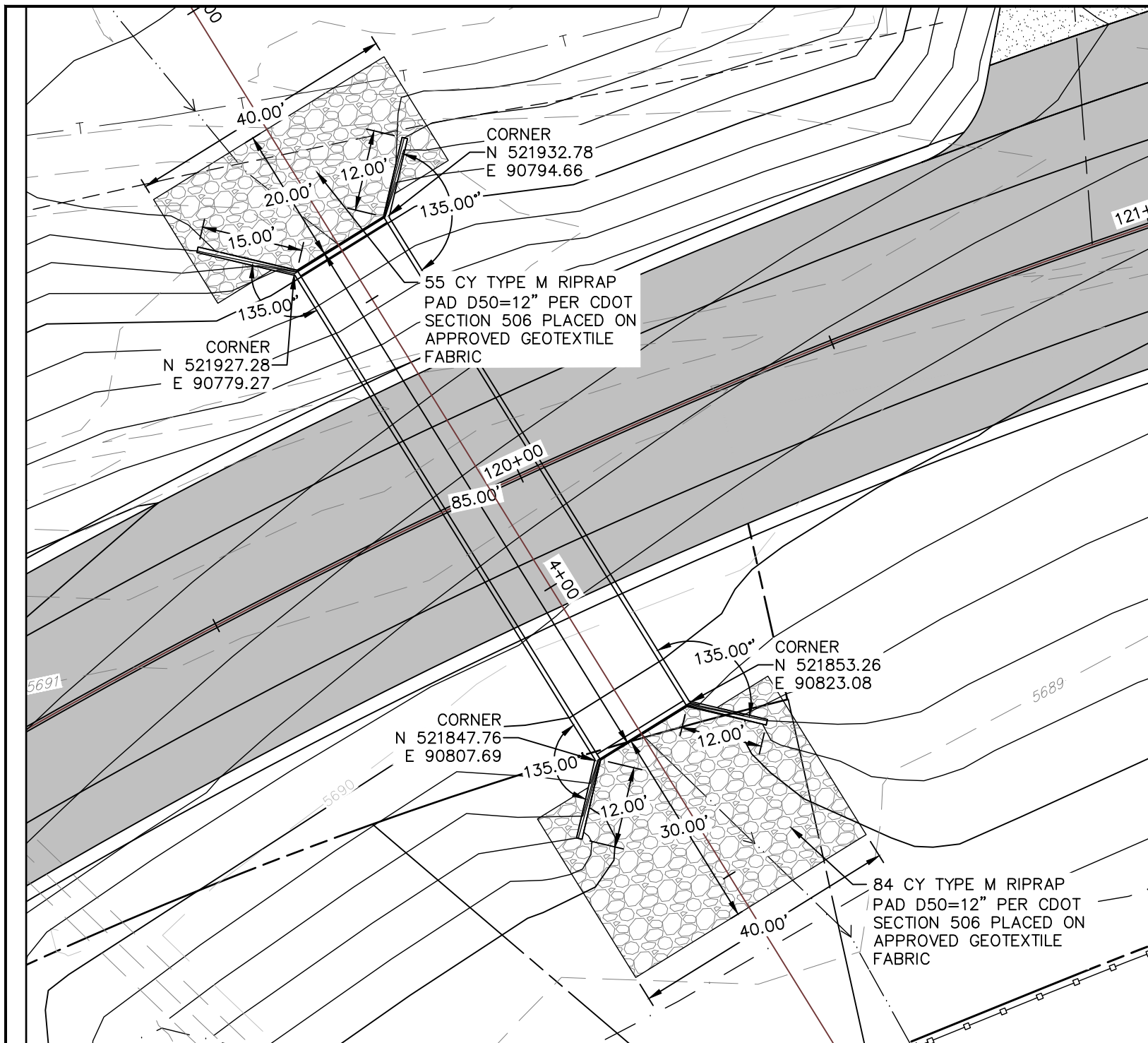
**CONCRETE BOX CULVERT
 GRADING PLAN**

PROJECT NO. 335
LARIMER COUNTY ROAD 72
SHEET NO. 136



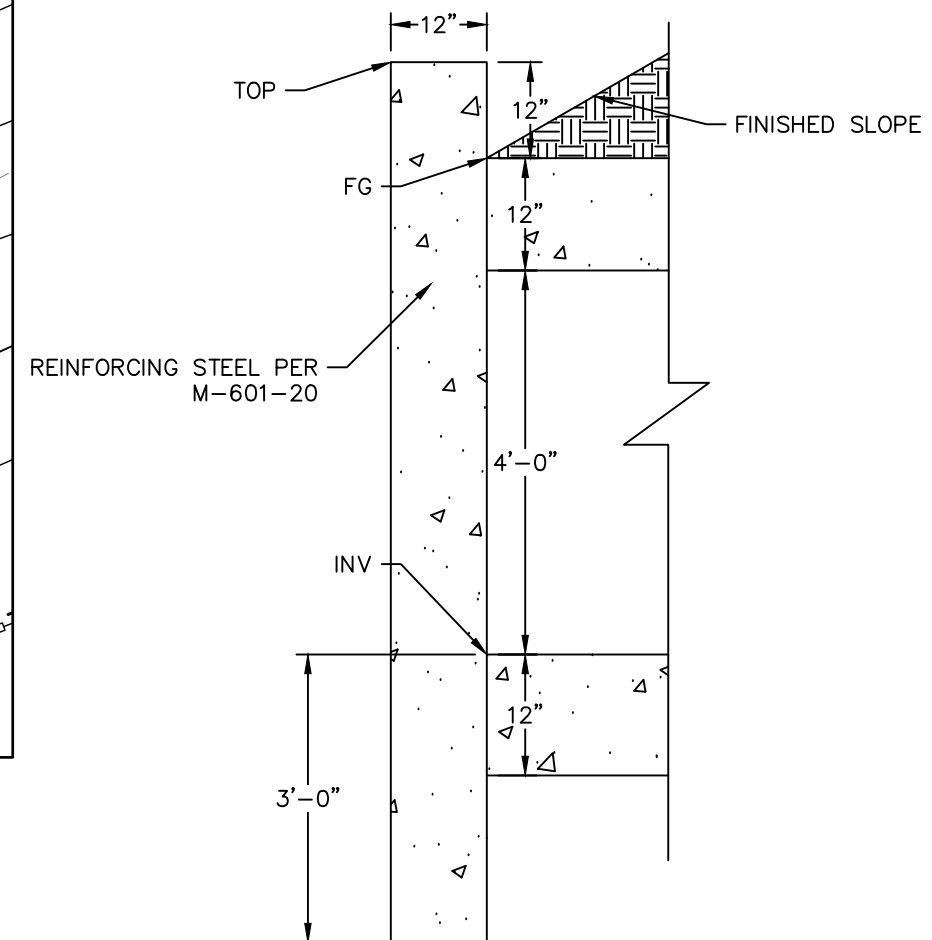
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COMPUTER INFORMATION		REVISIONS		LARIMER COUNTY ENGINEERING DEPARTMENT 200 WEST OAK, SUITE 3000 POST OFFICE BOX 1190 FORT COLLINS, COLORADO 80522-1190 (970)498-5700 (970)498-7986 FAX	AS CONSTRUCTED		CONCRETE BOX CULVERT PROFILE	PROJECT NO. 335	
CREATION DATE:	07/13/20	(R-1)			NO REVISIONS:			LARIMER COUNTY ROAD 72	
MODIFICATION DATE:	02/01/21	(R-2)			REVISED:			SHEET NO. 137	
FILE LOCATION:	INTEREST PROJECTS\2019 PROJECTS\1421-094-00 (LARIMER COUNTY ROAD 72)\DRAWINGS\ENGINEERING PLANS	(R-3)			VOID:				
FILE NAME:	1421-094-00 CBC.DWG	(R-4)							
		(R-5)							



NOTE:

1. DIMENSIONS OF THE DECK, SLAB AND WALL THICKNESS SHOWN ARE APPROXIMATE. FINAL DIMENSIONS TO BE DETERMINED BY THE PRE-CAST SUPPLIER.
2. SUBGRADE PREPARATION SHALL BE PER LARIMER COUNTY ROAD 72 – ROADWAY IMPROVEMENTS SUBSURFACE EXPLORATION – ADDENDUM REPORT NO. 1 BY EARTH ENGINEERING CONSULTANTS DATED OCTOBER 1, 2020.



BOX CULVERT END W/ HEADWALL



CALL UTILITY NOTIFICATION
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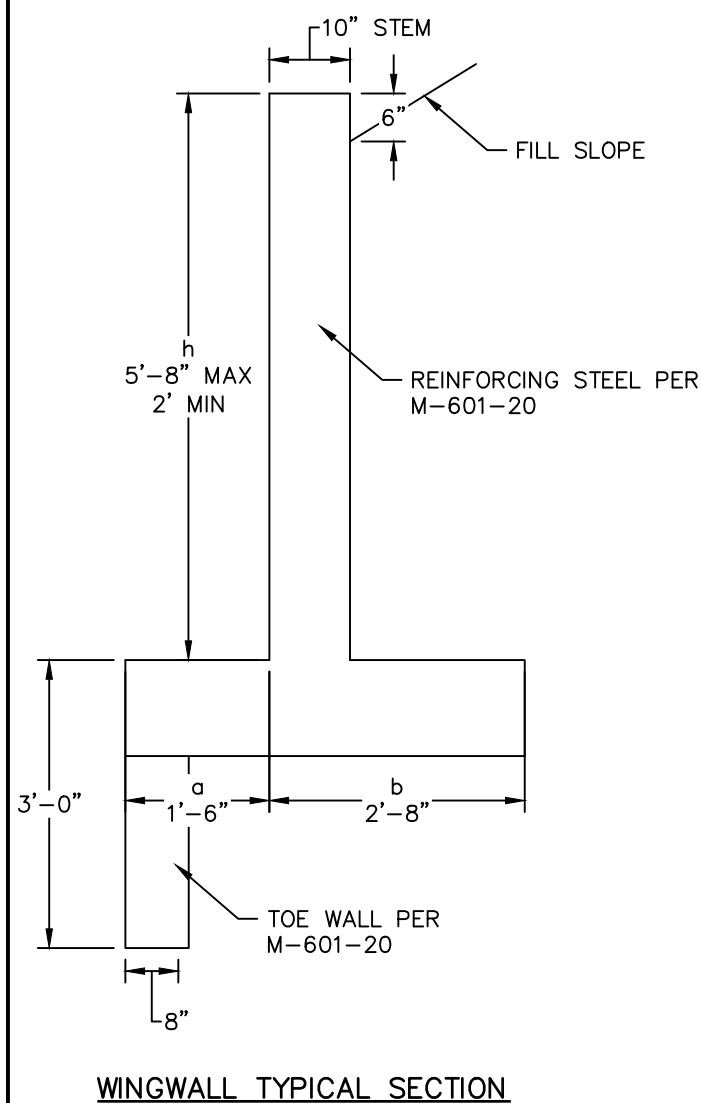


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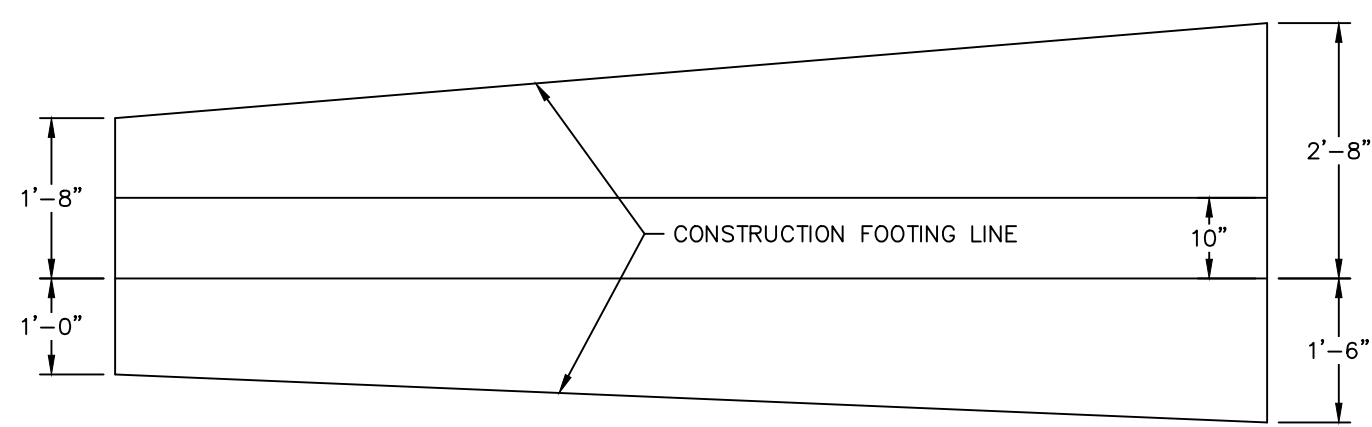
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**CONCRETE BOX CULVERT
LAYOUT PLAN**

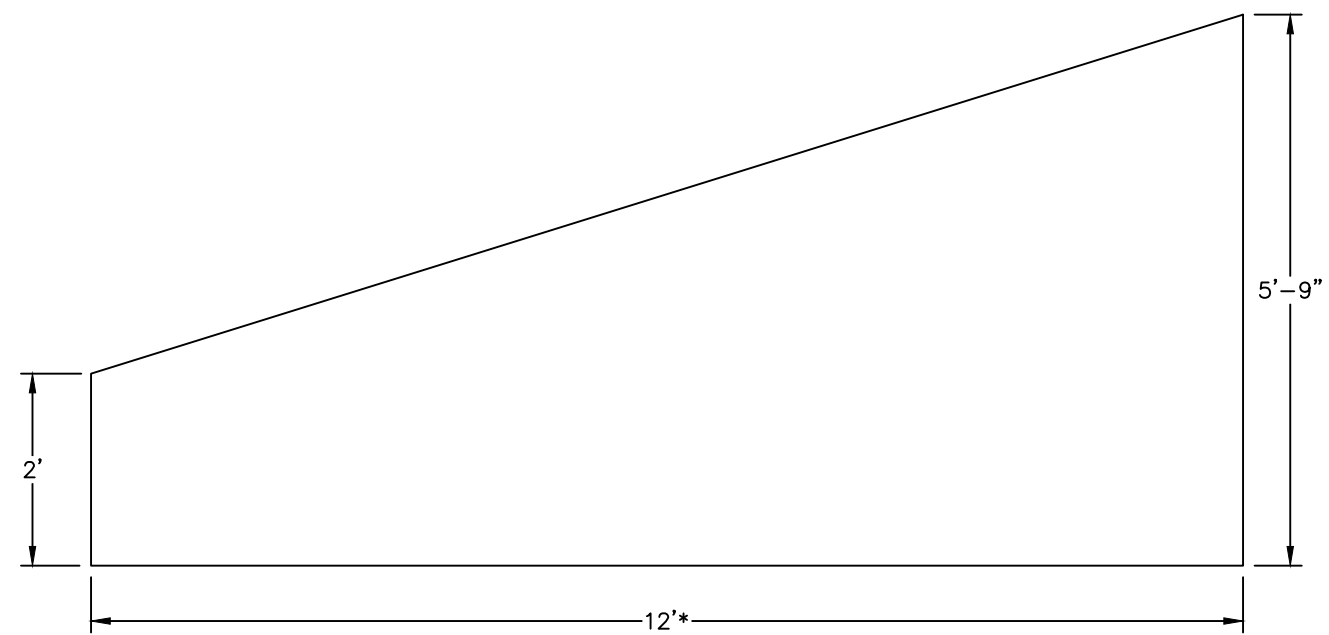
PROJECT NO. 335
LARIMER COUNTY ROAD 72
SHEET NO. 138



WINGWALL TYPICAL SECTION



WINGWALL PLAN



WINGWALL ELEVATION

***NOTE:** WINGWALL IN NORTHWEST CORNER OF BOX IS 15' LONG.

GENERAL NOTES:

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE COLORADO DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2019 EDITION; THE PROJECT SPECIAL PROVISIONS; THE LATEST M&S STANDARDS; LARIMER COUNTY STANDARDS; AND THE PROJECT CONTRACT BID DOCUMENTS.
2. PROPOSED CONCRETE BOX CULVERT SHALL BE PRECAST. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
3. REFER TO M-601-2 FOR CONCRETE BOX CULVERT CONSTRUCTION. USE BAR SIZES, SLAB, AND WALL THICKNESSES FOR THE 6 FT RISE BOX IN THE TABLE ON SHEET 2 OF 2.
4. REFER TO M-601-20 FOR WINGWALL CONSTRUCTION.
5. PRECAST CONCRETE BOX CULVERT EXCAVATION, BACKFILL AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH M-603-3. THE CONTRACTOR SHALL PROVIDE DESIGN NOTES AND A RATING PACKAGE FOR THE PRECAST CONCRETE BOX CULVERT IN ACCORDANCE WITH THE CDOT BRIDGE DESIGN AND RATING MANUAL TO THE ENGINEER FOR INFORMATION.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STABILITY OF THE STRUCTURE DURING CONSTRUCTION.
7. SHORING MAY BE REQUIRED FOR EXCAVATION ADJACENT TO THE EXISTING ROADWAY AND WILL BE CONSIDERED INCIDENTAL TO THE WORK.
8. THE FINAL FINISH FOR THE EXPOSED SURFACES OF THE HEADWALL, CURBS AND WINGWALLS TO 1' BELOW GROUND LINE SHALL BE CLASS 1 PER CDOT SPEC 601.14.
9. DEWATERING WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE WORK.
10. FOUNDATION DESIGN OF THE CULVERT AND WALLS IS BASED ON A GEOTECHNICAL INVESTIGATION PERFORMED BY EARTH ENGINEERING CONSULTANTS, LLC (EEC PROJECT 1202004, "ADDENDUM REPORT NO. 1" DATED OCTOBER 1, 2020). THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE REQUIREMENTS OF THIS REPORT.
11. STRUCTURAL EXCAVATION AND BACKFILL SHALL BE CONSTRUCTED PER M-206-1. HOWEVER, ALL STRUCTURE BACKFILL MATERIAL SHALL BE STRUCTURE BACKFILL (SPECIAL) CONSISTING OF MATERIAL MEETING THE REQUIREMENTS OF CDOT TABLE 703-2, AGGREGATE BASE COURSE, CLASS 5 OR 6.
12. BEDDING SHALL CONSIST OF 6 IN. OF AGGREGATE BASE COURSE (CLASS 6) COMPACTED TO NOT LESS THAN 95% MAXIMUM DENSITY DETERMINED IN CONFORMANCE WITH AASHTO T 180. BEDDING AND EXCAVATION FOR BEDDING WILL NOT BE MEASURED AND PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE WORK.
13. PRIOR TO PLACING BEDDING, THE GEOTECHNICAL ENGINEER SHALL OBSERVE SUBGRADE CONDITIONS. IF VARIABLE SUBGRADE CONDITIONS ARE OBSERVED, OVER-EXCAVATION MAY BE REQUIRED AND SHALL BE PERFORMED AS DIRECTED BY THE ENGINEER.
14. SEE GENERAL NOTES FROM M-601-2 FOR ADDITIONAL REQUIREMENTS.
15. CBC END SECTIONS SHALL HAVE DAYTON FEMALE DOWEL BAR SPLICERS PROVIDED FOR HEADWALL, WINGWALL AND TOEWALL CONSTRUCTION PURPOSES IN LIEU OF EXPOSED CBC REINFORCEMENT. COST FOR SPLICERS SHALL BE CONSIDERED INCIDENTAL TO THE WORK.
16. CBC JOINTS SHALL BE SEALED WITH A RUBBER BASED WATERSTOP GASKET (CONSEAL CS-231 OR APPROVED EQUAL) AND WRAPPED WITH A MEMBRANE WATERPROOFING EXTERIOR JOINT WRAP PRODUCT (CONSEAL CS-212 OR APPROVED EQUAL). COST SHALL BE CONSIDERED INCIDENTAL TO THE WORK.
17. IF INTERIOR JOINTS ARE NOT PROPERLY SEATED TO THE SATISFACTION OF THE ENGINEER, THEN GROUT SEALING OF THE JOINT MAY BE REQUIRED BY THE ENGINEER. COST SHALL BE CONSIDERED INCIDENTAL TO THE WORK.
18. CONTRACTOR SHALL FABRICATE CBC UNITS TO FACILITATE ADDITIONAL PICKING POINTS WITHIN THE INTERIOR CBC FACES TO MINIMIZE DAMAGE TO ENDS OF THE CBC UNITS WHEN SECURING TOGETHER.



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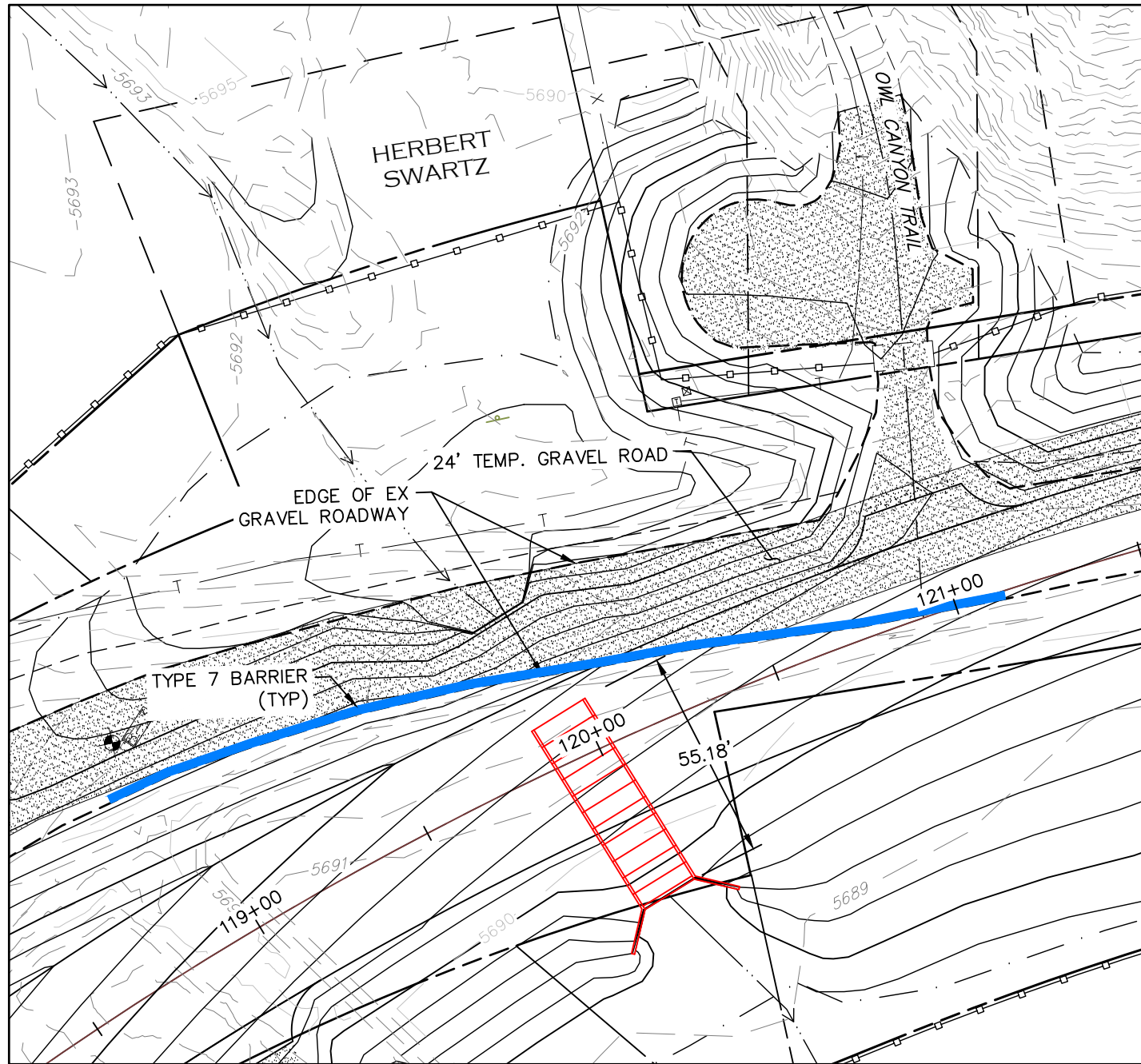


LARIMER COUNTY ENGINEERING DEPARTMENT
200 WEST OAK, SUITE 3000
POST OFFICE BOX 1190
FORT COLLINS, COLORADO 80522-1190
(970)498-5700
(970)498-7986 FAX

AS CONSTRUCTED
NO REVISIONS:
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VOID:

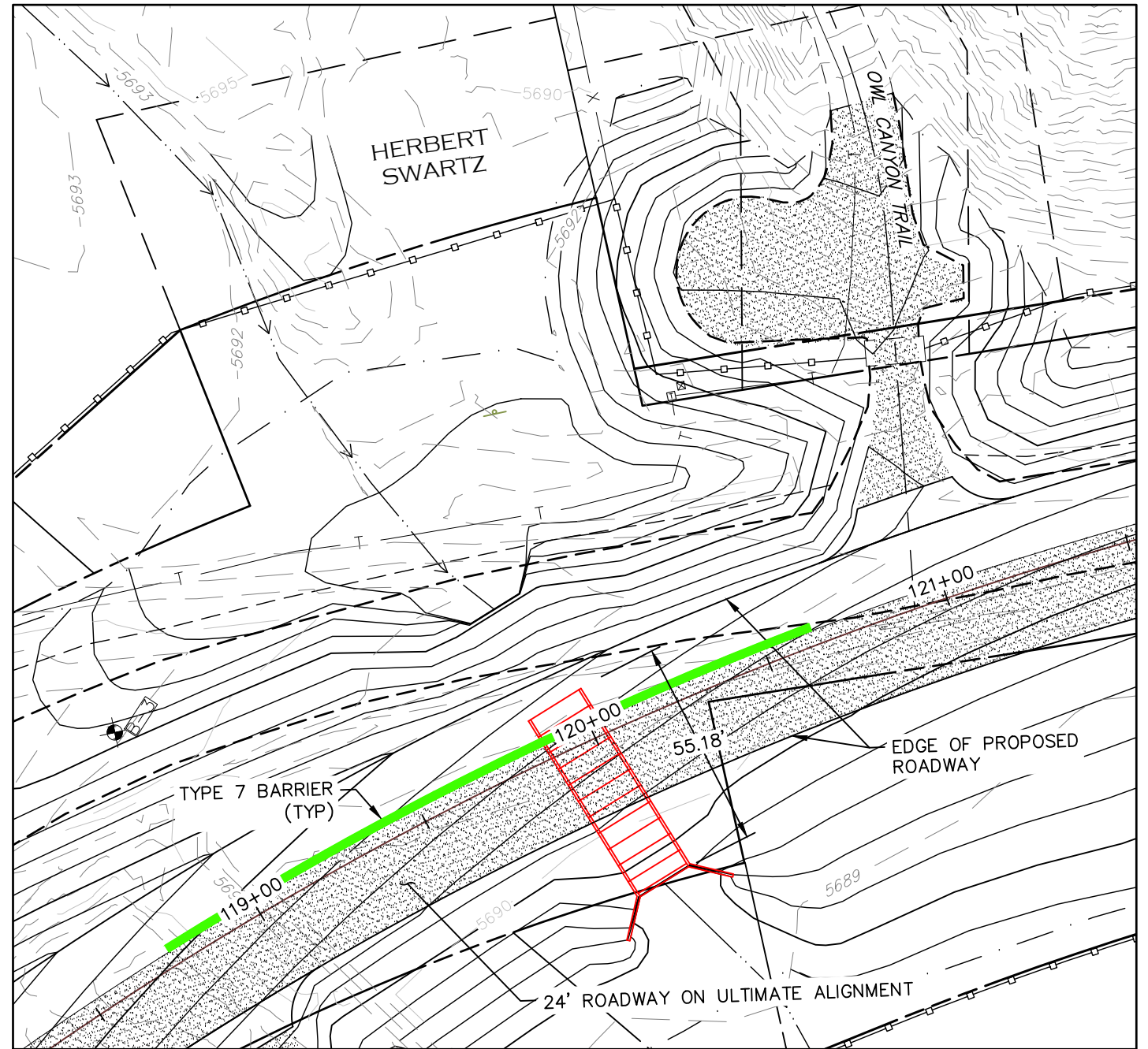
**CONCRETE BOX CULVERT
WINGWALLS & NOTES**

PROJECT NO. 335
LARIMER COUNTY ROAD 72
SHEET NO. 139



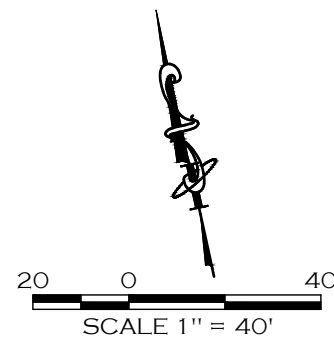
PHASE 1

1. CONSTRUCT SOUTH PORTION OF THE BOX CULVERT AND WINGWALLS.
2. MAINTAIN 2 LANES OF TRAFFIC ON EXISTING GRAVEL ROAD. PROVIDE TYPE 7 BARRIERS AS NECESSARY.



PHASE 2

1. BACKFILL OVER SOUTH PORTION OF BOX CULVERT.
2. CONSTRUCT 24' WIDE ROADWAY AT SUBGRADE OF PROPOSED ROAD OVER BOX CULVERT FOR REROUTED TRAFFIC.
3. REMOVE EXISTING ROADWAY OVER NORTH PORTION OF THE BOX CULVERT. PROVIDE TYPE 7 BARRIERS AS NECESSARY.



CALL UTILITY NOTIFICATION
CENTER OF COLORADO
811
CALL 2-BUSINESS DAYS IN ADVANCE
BEFORE YOU DIG, GRADE, OR EXCAVATE
FOR THE MARKING OF UNDERGROUND
MEMBER UTILITIES.

COMPUTER INFORMATION	
CREATION DATE:	07/13/20
MODIFICATION DATE:	02/01/21
FILE LOCATION:	INTEREST PROJECTS\2019 PROJECTS\1421-094-00 (LARIMER COUNTY ROAD 72)\DRAWINGS\ENGINEERING PLANS
FILE NAME:	1421-094-00 CBC-PHASING.DWG

REVISIONS	
(R-1)	
(R-2)	
(R-3)	
(R-4)	
(R-5)	

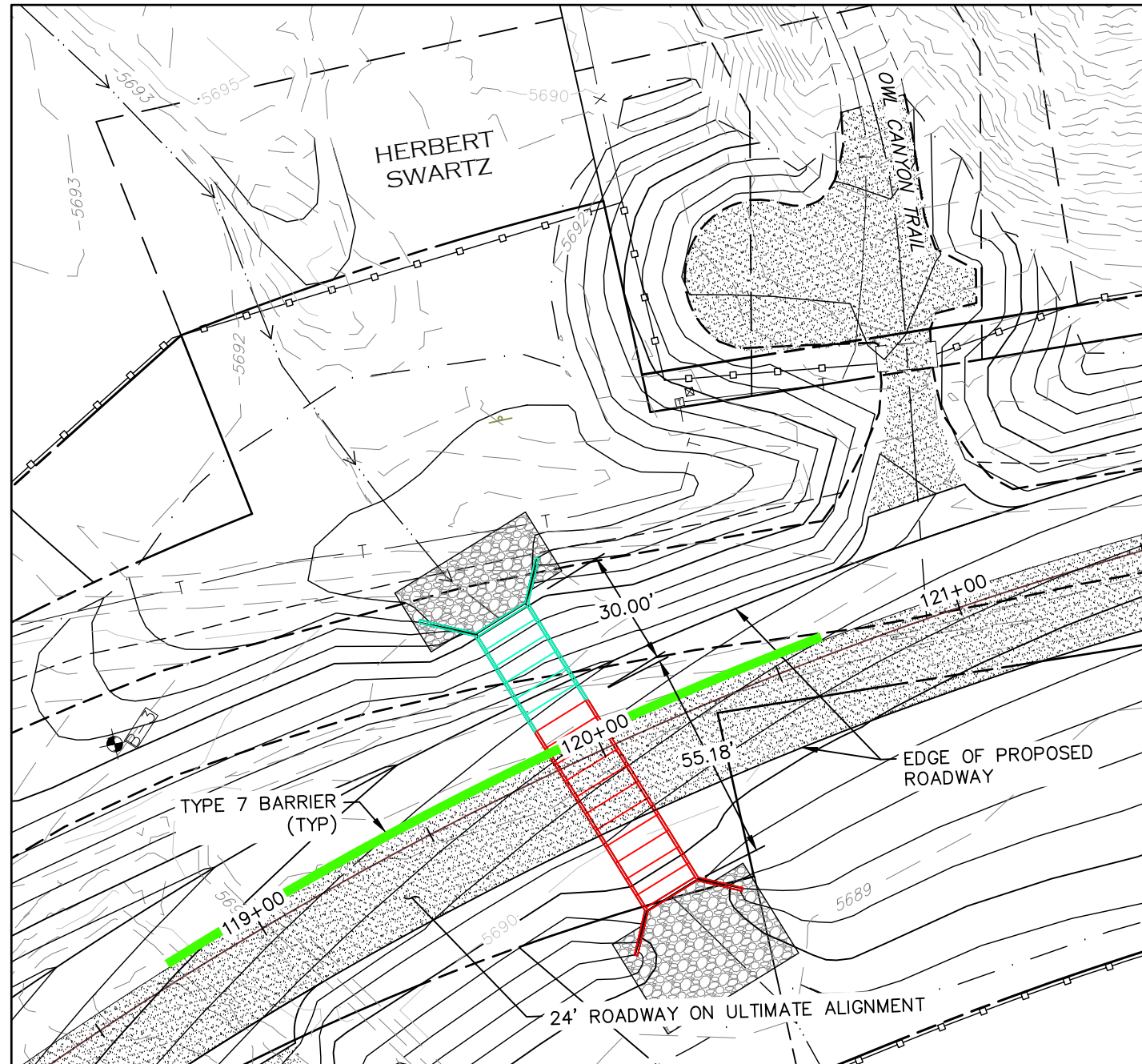


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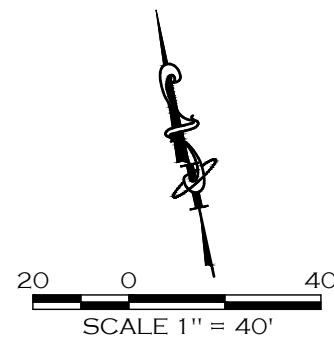
**CONCRETE BOX CULVERT
PHASING PLAN**

PROJECT NO. 335
LARIMER COUNTY ROAD 72
SHEET NO. 140



PHASE 3

1. CONSTRUCT NORTH PORTION OF THE BOX CULVERT AND WINGWALLS.
2. BACKFILL AROUND BOX CULVERT AND WINGWALLS TO FINAL GRADING.
3. ROUTE TRAFFIC OVER BOX CULVERT AS NECESSARY (MAINTAINING 2 LANES) TO CONSTRUCT FINAL ROADWAY LOCATION.
4. INSTALL RIPRAP PAD.



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COMPUTER INFORMATION	
CREATION DATE:	07/13/20
MODIFICATION DATE:	02/01/21
FILE LOCATION:	INTEREST PROJECTS\2019 PROJECTS\1421-094-00 LARIMER COUNTY ROAD 72\PHASING\ENGINEERING PLANS
FILE NAME:	1421-094-00 CBC-PHASING.DWG

REVISIONS	
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(R-4)	
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CONCRETE BOX CULVERT PHASING PLAN

PROJECT NO. 335
LARIMER COUNTY ROAD 72
SHEET NO. 141