

PoDI / NHS

FHWA PROJECT OF DIVISION INTEREST (PoDI)? NO YES

NATIONAL HIGHWAY SYSTEM? NO YES

DEPARTMENT OF TRANSPORTATION STATE OF COLORADO

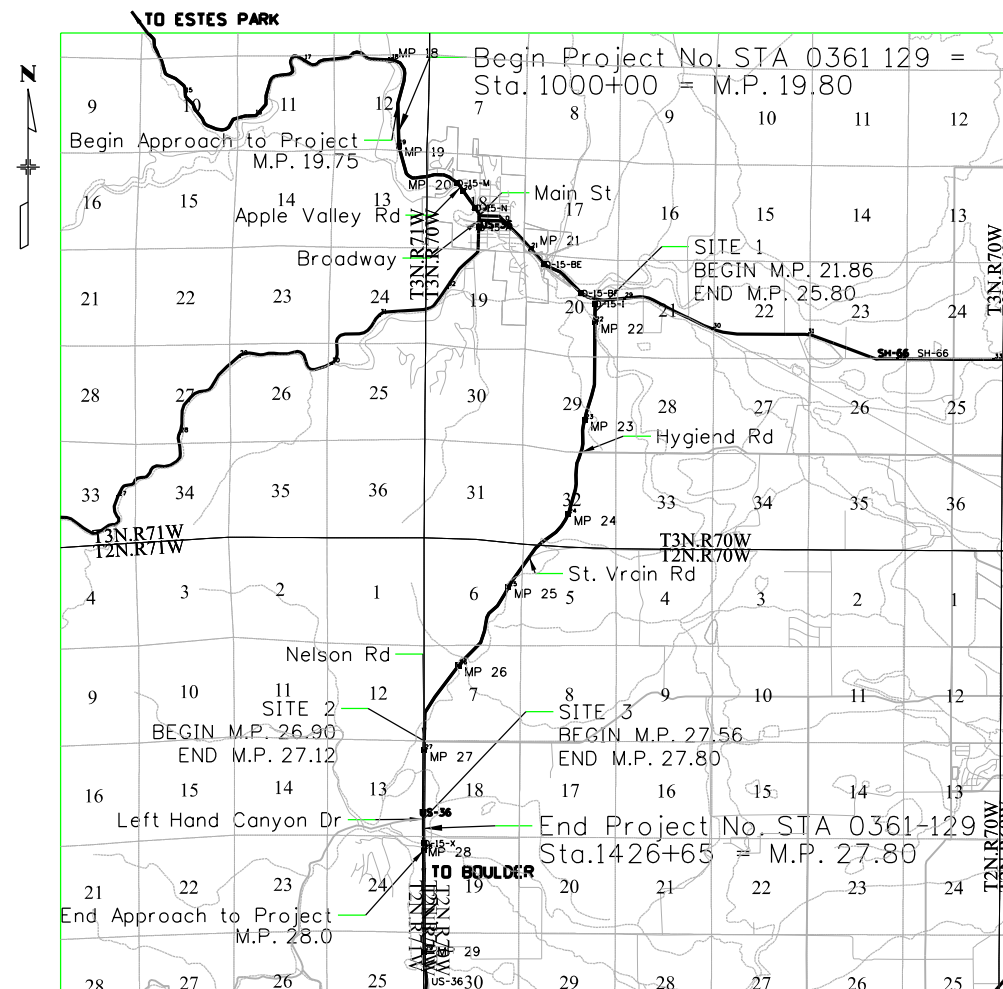
Related Projects:
P. E. UNDER PROJECT:
Project Number STR 0361-45
Project Code: 10677

R.O.W. Projects:
R.O.W. Project Description
STR 0361-45; F 030-1

HIGHWAY CONSTRUCTION BID PLANS OF PROPOSED FEDERAL AID PROJECT NO. STA. 0361-129 STATE HIGHWAY NO. 36 BOULDER COUNTY CONSTRUCTION PROJECT CODE NO. 24063

TABULATION OF LENGTH & DESIGN DATA		
STATION	US 36 FEET	
	ROADWAY	MAJOR STR.
APPROACH TO PROJECT ON US 36 = M.P. 19.75	264.0	
BEGIN STRUCTURE NO. D-15-M = STA. 1001+66		202.0
END STRUCTURE NO. D-15-M = STA. 1003+68		
BEGIN PROJECT US 36 M.P. 19.80	10877.0	
BEGIN STRUCTURE NO. D-15-N = STA. 1019+41		160.0
END STRUCTURE NO. D-15-N = STA. 1021+01		
BEGIN STRUCTURE NO. D-15-BE = STA. 1087+17		50.0
END STRUCTURE NO. D-15-BE = STA. 1087+67		
BEGIN STRUCTURE NO. D-15-BF = STA. 1086+67		40.0
END STRUCTURE NO. D-15-BF = STA. 1087+07		
BEGIN STRUCTURE NO. D-15-I = STA. 1108+80		220.0
END STRUCTURE NO. D-15-I = STA. 1110+00		
SITE NO. 1 M.P. 21.86 TO M.P. 25.80	20803.0	
SITE NO. 2 M.P. 26.90 TO M.P. 27.12	1162.0	
SITE NO. 3 M.P. 27.56 TO M.P. 27.80	1267.0	
END PROJECT US 36 M.P. 27.80	1056.0	
APPROACH TO PROJECT ON US 36 = M.P. 28.00		
TOTAL	35429.0	672
SUMMARY OF PROJECT LENGTH	FEET	MILES
MAJOR STRUCTURE	533.0	0.13
PROJECT NET LENGTH	35429.0	6.71

DESIGN DATA	SITE NO. 1	SITE NO. 2	SITE NO. 3
MAXIMUM DESIGN SPEED	65 MPH	60 MPH	60 MPH
CLEAR ZONE (FT)	40 FT	42 FT	42 FT
2022 DESIGN TRAFFIC (AADT)	8,200	9,500	11,000
2042 DESIGN TRAFFIC (AADT)	9,733	10,963	12,936
DHV TRUCK%	2.7	2.2	2.1



PROJECT LOCATION MAP

SHEET NO.	INDEX OF SHEETS
1	TITLE SHEET
2	STANDARD PLANS LIST
3	GENERAL NOTES
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11	TABULATION OF DELINEATORS
12-14	TABULATION OF PAVEMENT MARKINGS
15	TABULATION OF SIGNS
16	TABULATION OF TRAFFIC CONTROL ITEMS
17	SCHEDULE OF CONSTRUCTION TRAFFIC CONTROL DEVICES
18	SUMMARY OF EARTHWORK QUANTITIES
19-20	TYPICAL SECTIONS
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55-76	CROSS SECTIONS
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83-88	SWMP SITE MAPS

FOR

08/17/2022

ondersonj1 7:54:41 AM pwr:\cdot-pw-01p\Documents\02 Minor Projects\CDOT Internal Projects\24063 - us 36 intersection striping widening\01 Pre-Construction Drawings\Roadway\24063_RD_FIR_Title_Sheet.dgn

All seals for this set of drawings are applied to the cover page(s)	Print Date: 8/10/2022		Sheet Revisions			Colorado Department of Transportation 1050 Lee Hill Dr Boulder, CO 80302 Phone: 303-546-5654 Fax: 303-444-0751 Region 4	As Constructed	Contract Information		Project No./Code
	File Name: 24063_RD_Title_Sheet.dgn		Date:	Comments	Init.		No Revisions:	Contractor:		STA 0361 129
	Horiz. Scale: 1:1 Vert. Scale: As Noted						Revised:	Resident Engineer:		24063
	Unit Information						Void:	PROJECT STARTED:	ACCEPTED:	Sheet Number

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PLAN NUMBER	M STANDARD TITLE	PAGE NUMBER
<input checked="" type="checkbox"/> M-100-1	STANDARD SYMBOLS (3 SHEETS)	1-3
<input checked="" type="checkbox"/> M-100-2	ACRONYMS AND ABBREVIATIONS (4 SHEETS)	4-7
<input checked="" type="checkbox"/> M-203-1	APPROACH ROADS	8
<input checked="" 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 type="checkbox"/> M-210-1	MAILBOX SUPPORTS (2 SHEETS)	30-31
<input type="checkbox"/> M-214-1	NURSERY STOCK DETAILS	32
<input type="checkbox"/> M-216-1	SOIL RETENTION COVERING (2 SHEETS)	33-34
<input type="checkbox"/> M-412-1	CONCRETE PAVEMENT JOINTS (9 SHEETS) <i>(REVISED ON JANUARY 31, 2022)</i>	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
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<input type="checkbox"/> M-601-10	HEADWALL FOR PIPES	47
<input type="checkbox"/> M-601-11	TYPE "S" SADDLE HEADWALLS FOR PIPE	48
<input type="checkbox"/> M-601-12	HEADWALLS AND PIPE OUTLET PAVING	49
<input type="checkbox"/> M-601-20	WINGWALLS FOR PIPE OR BOX CULVERTS (2 SHEETS)	50-51
<input type="checkbox"/> M-603-1	METAL PIPE (4 SHEETS)	52-55
<input checked="" type="checkbox"/> M-603-2	REINFORCED CONCRETE PIPE	56
<input 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
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<input type="checkbox"/> M-604-11	INLET, TYPE D	66
<input type="checkbox"/> M-604-12	CURB INLET TYPE R (2 SHEETS)	67-68
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<input type="checkbox"/> M-604-20	MANHOLES (3 SHEETS)	70-72
<input type="checkbox"/> M-604-25	VANE GRATE INLET (5 SHEETS)	73-77
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PLAN NUMBER	M STANDARD TITLE	PAGE NUMBER
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<input type="checkbox"/> M-606-13	GUARDRAIL TYPE 7 F-SHAPE BARRIER (4 SHEETS)	98-101
<input type="checkbox"/> M-606-14	PRECAST TYPE 7 CONCRETE BARRIER (4 SHEETS) <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 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
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<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 type="checkbox"/> M-611-1	CATTLE GUARD (2 SHEETS)	152-153
<input type="checkbox"/> M-611-2	DEER GUARD (2 SHEETS)	154-155
<input checked="" 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
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<input checked="" type="checkbox"/> M-620-2	FIELD LABORATORY CLASS 2 (2 SHEETS)	165-166
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PLAN NUMBER	S STANDARD TITLE	PAGE NUMBER
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<input type="checkbox"/> S-613-1	ROADWAY LIGHTING (6 SHEETS) <i>(REVISED ON SEPTEMBER 30, 2020)</i>	179-186
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<input checked="" type="checkbox"/> S-614-1	GROUND SIGN PLACEMENT (2 SHEETS)	187-188
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<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 checked="" type="checkbox"/> S-614-8	TUBULAR STEEL SIGN SUPPORT DETAILS (7 SHEETS) <i>(REVISED ON DECEMBER 31, 2020)</i>	198-204
S-614-9	PEDESTRIAN PUSH BUTTON POST ASSEMBLY (2 SHEETS) <i>(SUPERSEDED ON JANUARY 23, 2020 BY S-614-45)</i>	205-206
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<input checked="" 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
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<input type="checkbox"/> S-614-40	TYPICAL TRAFFIC SIGNAL 30'-75' DOUBLE MAST ARMS 65'-75' SINGLE MAST ARMS (5 SHEETS)	219-223
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<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 checked="" type="checkbox"/> S-627-1	PAVEMENT MARKINGS (9 SHEETS) <i>(REVISED ON FEBRUARY 16, 2021)</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 checked="" type="checkbox"/> S-630-3	FLASHING BEACON (PORTABLE) DETAILS	315
<input checked="" 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
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COLORADO
DEPARTMENT OF TRANSPORTATION
M&S STANDARDS PLANS LIST
 July 31, 2019
 Revised on January 31, 2022

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

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

All seals for this set of drawings are applied to the cover page(s)	Print Date: 03/30/2022	Sheet Revisions			Colorado Department of Transportation			As Constructed		US 36 - LYONS, SOUTH STANDARD PLANS LIST			Project No./Code
	File Name: 24063_FIR_Standards.dgn	Date:	Comments	Init.	 1050 Lee Hill Dr Boulder, CO 80302 Phone: 303-546-5654 Fax: 303-444-0751	No Revisions:		Designer:			Sheet Number		
	Horiz. Scale: 1:1 Vert. Scale: As Noted					Revised:		Detailer:					
	Unit Information					Void:		Sheet Subset:					
					Region 4	RDM	Subset Sheets:		Sheet Number				

GENERAL NOTES

1. For preliminary plan quantities of pavement materials, the following rates of application were used:
 Aggregate Base Course Class 6.....@ 133 Lbs./Cu. Ft.
 Hot Mix Asphalt (Grading SX) (100).....@ 112 Lbs./Sq. Yd./Inch
 Tack Coat-Emulsified Asphalt (Slow-Setting).....@ 0.05 Gals./Sq. Yd.(Undiluted)
2. Diluted emulsified asphalt for tack coat shall consist of 1 part emulsified asphalt and 1 part water.
3. Emulsified asphalt (slow-setting) for tack coat is required prior to the placement of each HMA lift placed on top of existing or new HMA. A tack coat shall be applied to overlap the longitudinal seam on the overlay. Tack coat will be considered as subsidiary to the paving operation and will not be paid for separately.
4. Before placement of the tack coat, the Contractor shall clean the roadway as directed by the engineer. Cleaning shall not be measured and paid for separately but shall be considered incidental to the work.
5. The following shall be furnished with each bituminous paver:
 1. A ski type device at least 30 Feet in length.
 2. Short skid shoe.
6. Pavement widths may vary through the project. The lay down machine shall have an adjustable screed to accommodate variations the the pavement width. Pavement overlays shall match existing width of pavement.
7. When more than one lift of hot mix asphalt is being placed, longitudinal joints formed by adjacent passes with the paver in a lift shall be offset by a minimum of 6 Inches between lifts.
8. Any layer of bituminous pavement that is to have a succeeding layer placed thereon shall be completed full width before succeeding layer is placed. The top lift of hot mix asphalt shall be treated as an overlay; it shall not be placed until all other work, including patching and reconstruction that require a lower layer of hot mix asphalt, has been completed.
9. Asphalt joints shall not fall on permanent lane lines, shoulders lines, median lines or in expected wheel paths, except where stated in the plans.
10. No vertical slopes shall be left overnight unprotected. All vertical slopes shall be flattened to a 4:1 side slope prior to the end of the work day, or as directed by the engineer.
11. Removal of Asphalt Mat (Planing) and leveling asphalt shall be placed to maximize roadway smoothness. Unless otherwise shown in the plans, locations shall be identified by the Contractor and approved by the Project Engineer. Any quantities above plan quantity proposed by the Contractor shall be approved and accepted in writing prior to placement. Otherwise, the Contractor shall not exceed the Removal of Asphalt Mat (Planing) and leveling subtotal of HMA Grading (SX)(100) (PG 64-22) quantity shown in the project plans.
12. All travel lanes are subject to smoothness incentive payments. MRI Category I shall be applied for all locations.
13. The Contractor shall be responsible for obtaining any additional boring logs and/or soil information.
14. Depth of reconditioning and moisture-density control for this project shall be as follows:
 1. Full depth of all embankments.
 2. Full depth for aggregate base course.
 3. 6 inches for base of cuts and fills.

Excavation required for compaction of bases of cuts and fills will be considered as subsidiary to that operation and will not be paid for separately.
15. Water source required for moisture/density control shall be the Contractor's responsibility and shall be free of excessive sediments or other contaminants that may be detrimental to embankments, sub-bases, and base course material. Water as a dust palliative and any other wetting shall be included in the work and will not be paid for separately.
16. No excess material shall be disposed of within the project limits but shall be hauled off site for disposal, which shall be included in the cost of the work.
17. The Contractor shall limit construction activities to those areas within the limits of disturbance and/or toes of slope. An disturbance beyond these limits shall be restored to original conditions by the Contractor at their own expense. Construction activities, in addition to normal construction procedures include parking of vehicles or equipment, disposal of litter and any other action, which would alter existing conditions.
18. The Contractor shall submit a paving schedule to the engineer at least 3 working days prior to the pre-paving conference. Paving shall not begin until the schedule has been accepted in writing by the engineer.


19. Milled surfaces shall be covered with new asphalt within 5 days.
20. No Right-Of-Way acquisition will not be needed for this project. All work will be completed entirely within the existing Right-Of-Way and easements. During construction activities, the Contractor shall keep all equipment and materials within the easement or Right-of-Way.
21. Clear zone is 16' within the traffic control limits of SH 71. No parking or equipment storage shall be allowed within the clear zone. The Contractor shall not stockpile material within the clear zone.
22. The Contractor shall coordinate with the project engineer to identify material stockpile and staging areas. Location of the field office and field laboratory shall be subject to prior approval by the project engineer.
23. The Contractor shall address local drainage during each phase of construction. This work will not be paid separately, but shall be considered subsidiary to the work.
24. See stormwater management plan for erosion control measures to be used during construction. Whenever sediment is transported onto a public road, the road shall be cleaned at the end of each day. Sediment shall be removed from roads by shoveling or sweeping and transported to a controlled sediment disposal area. This work will not be paid for separately but is included in the cost of the work.
25. Stormwater management may require multiple seeding operations. These multiple operations shall be included in the cost of Seeding and Mulching.
26. The Contractor shall comply with requirements and general conditions of section 404 of the clean water act under permit number 3(b) maintenance. A copy of permit conditions and requirements shall be provided to the Contractor to keep in the project SWMP notebook.
27. The Contractor shall coordinate construction work to accommodate other construction projects within the surrounding area.
28. The Contractor shall maintain access to affected property owners at all times during construction at no additional cost. A plan showing how access will be maintained shall be submitted to the engineer for each phase of work.
29. If any valve boxes or manholes are impacted during construction, the Contractor shall be responsible for their adjustment. The Contractor shall notify the impacted utility company at least 48 hours prior to any work being accomplished.
30. Any existing signs or signs to be reset that are damaged by the Contractor shall be repaired or replaced at no additional cost to the project.
31. Markers or any other structure damaged by the Contractor shall be replaced at no additional expense to the project.
32. The Contractor shall be required to field verify lengths, diameters, elevations, locations and thickness before ordering materials.
33. All items not shown in the summary of quantities shall be considered incidental to the work and will not be paid for separately. Payment shall be made only for items on the pay item list.
34. The Contractor shall be responsible for contacting and coordinating with the appropriate utility representatives to be on site during potholing and shall likewise be responsible for determining the type and location of underground utilities as maybe necessary to avoid damage thereto. The Contractor shall refer to the utility specification for additional requirements.
35. The Contractor shall protect all existing survey monumentation designated to remain from damage during construction operations. Any monuments disturbed by the Contractor that are not designated for relocation, shall be reset at the Contractor's expense. The Contractor and Engineer shall note those monuments in the field prior to construction (No Monuments to be replaced).
36. All slopes will be roughened as directed by the Engineer. Costs associated with this order shall be incidental to the earthwork pay item.
37. The Contractor shall be required to log Type, Size, Color and Location of existing lane markings for duplication prior to paving operations. All lane markings shall be laid out by the Contractor on the new surface for final striping. This work will not be measured and paid for separately but will be included in the cost of pavement marking.
38. Final striping will begin at a point that matches the adjacent striping location and spacing.
39. Unless otherwise noted, materials shall be Contractor's source.

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All seals for this set of drawings are applied to the cover page(s)	Print Date: 03/30/2022	Sheet Revisions			Colorado Department of Transportation 1050 Lee Hill Dr. Boulder, CO 80302 Phone: 303-546-5654 Fax: 303-444-0751 Region 4 RDM	As Constructed		GENERAL NOTES		Project No./Code
	File Name: 24063_RD_General_Notes.dgn	Date:	Comments	Init.		No Revisions:				
	Horiz. Scale: 1:1 Vert. Scale: As Noted					Revised:	Designer:	Structure Numbers		
	Unit Information					Void:	Detailer:	Sheet Subset:	Subset Sheets:	Sheet Number

Tabulation of Surfacing								
Roadway Resurfacing		201-00000	202-00240	304-06007	403-34751	603-10240	603-01240	614-80390
Station		Clearing and Grubbing	Removal of Asphalt Mat (Planing)	Aggregate Base Course (Class 6) Shouldering	Hot Mix Asphalt (Gr SX)(75) (PG 64-28)	24 Inch Corrugated Steel Pipe	24 In RCP	Rumble Strip (Grinding)(Asphalt) (Sinusoidal)
From	To	LS	SY	CY	TON	LF	LF	LF
1111+40	1321+94	0	102850	400	17050	0	0	21100
Roadway Approaches		0	0	0	100	0	0	0
Guardrail		0	0	0	150	0	0	0
Irregularities (10%)		0	10285	0	1730	0	0	0
Project Subtotals		0	113135	400	19030	0	0	21100

Tabulation of Surfacing										
Nelson Rd. Widening		201-00000	202-00240	203-00066	304-06007	403-00720	403-34751	614-80390	603-10240	603-01240
Station		Clearing and Grubbing	Removal of Asphalt Mat (Planing)	Embankment Material (R40)	Aggregate Base Course (Class 6)	Hot Mix Asphalt (Patching) (Asphalt)	Hot Mix Asphalt (Gr SX)(75) (PG 64-28)	Rumble Strip (Grinding)(Asphalt) (Sinusoidal)	24 Inch Corrugated Steel Pipe	24 In RCP
From	To	LS	SY	CY	CY	TON	TON	LF	LF	LF
1379+90	1387+00	20000	80	360	85	150	0	0	7	0
Irregularities (10%)		0	8	36	8.5	15	0	0	0	0
Project Subtotals		20000	88	396	93.5	165	0	0	7	0

All seals for this set of drawings are applied to the cover page(s)	Print Date: 8/10/2022	Sheet Revisions			Colorado Department of Transportation		As Constructed		TABULATION OF SURFACING		Project No./Code
	File Name: 24063_Tabulation.dgn	Date:	Comments	Init.	 1050 Lee Hill Dr Boulder, CO 80302 Phone: 303-546-5654 Fax: 303-444-0751		No Revisions:		Designer:		Structure Numbers
	Horiz. Scale: 1"=50' Vert. Scale: As Noted						Revised:		Detailer:		
	Unit Information						Void:		Sheet Subset:		Subset Sheets:
					Region 4	RDM					24063


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Tabulation of Surfacing															
Left Hand Canyon Dr.		201-00000	202-00019	202-00035	202-00204	202-00240	203-00066	206-00000	206-00100	304-06007	403-00720	403-34751	603-10240	603-01240	614-80390
Station		Clearing and Grubbing	Removal of Inlet	Removal of Pipe	Removal of Curb, Gutter and Sidewalk	Removal of Asphalt Mat (Planing)	Embankment Material (R40)	Structure excavation (1.5 each side)	Structural backfill (Class 1)	Aggregate Base Course (Class 6)	Hot Mix Asphalt (Patching) (Asphalt)	Hot Mix Asphalt (Gr SX)(75) (PG 64-28)	24 Inch Corrugated Steel Pipe	24 In RCP	Rumble Strip (Grinding)(Asphalt) (Sinusoidal)
From	To	LS	Each	LF	LF	SY	CY	CY	CY	CY	TON	TON	LF	LF	LF
1417+20	1425+30	20000	1	135	140	4150	290	260	62	80	210	0	0	140	0
Irregularities (10%)		0	0	0	15	415	29	26	6.2	8	21	0	0	0	0
Project Subtotals		20000	1	135	155	4565	319	286	68.2	88	231	0	0	140	0
Project Grand Totals		40000	1	135	155	117788	715	286	70	581.5	396	19030	7	140	21100

Notes:

- 1) Tree Removal quantities are included within Clearing and Grubbing.
- 2) Raised Median Removal quantities are included within Removal of Curb, Gutter and Sidewalk


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	File Name: 24063_Tabulation.dgn	Date:	Comments	Init.	 1050 Lee Hill Dr Boulder, CO 80302 Phone: 303-546-5654 Fax: 303-444-0751			No Revisions:		Designer: Detailer: Sheet Subset:			Structure Numbers		STA 0361 129	
	Horiz. Scale: 1"=50' Vert. Scale: As Noted							Revised:					24063			
	Unit Information							Void:					Subset Sheets:		Sheet Number	
					Region 4			RDM								

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TABULATION OF GUARDRAIL																							
RUN #	NOTES				202-01130		202-01300		210-04200		1,2 606-00302		3 606-01340		606-02005		606-02003		606-01385		606-01390		COMMENTS
	STATION	SIDE	LENGTH OF EXISTING	REMOVAL OF GUARDRAIL TYPE 3		REMOVAL OF END ANCHORAGE		ADJUST GUARDRAIL		GUARDRAIL TYPE 3 (31 INCH MIDWEST GUARDRAIL SYSTEM)		END ANCHORAGE TYPE 3B		END ANCHORAGE (FLARED)		END ANCHORAGE (NONFLARED)		TRANSITION TYPE 3J		END ANCHORAGE TYPE 3K			
				LF		EA		LF		LF		EACH		EACH		EACH		EACH		EACH			
				Plan	As Built	Plan	As Built	Plan	As Built	Plan	As Built	Plan	As Built	Plan	As Built	Plan	As Built	Plan	As Built	Plan	As Built	Plan	
US 36																							
1	1205+80.83 - 1278+26.47	RIGHT	125.00					125							1				1				
2	1232+16.02 - 1237+21.21	LEFT	425.00					425						2									
3	1232+45.06 - 1235+91.50	RIGHT	137.50	250		2				187.5		1		1									
4	1275+89.34 - 1281+20.43	LEFT	450.00					450						2									
5	1299+63.46 - 1305+40.95	LEFT	337.50	340		2				462.5						2							
PROJECT TOTAL				1475	590	4		1000		650.0		1		6		2		1		1			

NOTES:

- Composite blocks shall be used on all Guardrail Type 3 and End Section installations.
- All guardrail, including end sections, shall be galvanized steel.
- Embankment material needed to meet M-606-1 grading requirements at end anchors will not be measured and paid for separately, but shall be included in the cost of the associated end anchor.

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				Region 4					RDM						Sheet Number			


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TABULATION OF DELINEATORS									
LOCATION		202-00090 REMOVAL OF DELINEATORS		612-00001 DELINEATOR (TYPE I)		612-00002 DELINEATOR (TYPE II)		612-00003 DELINEATOR (TYPE III)	
ROAD	STA to STA	EACH		EACH		EACH		EACH	
		PLAN	AS BUILT	PLAN	AS BUILT	PLAN	AS BUILT	PLAN	AS BUILT
US 36 NB	1111+40 to 1321+94	125		40		11		5	
US 36 SB		85		40		18		12	
US 36 NB	1377+00 to 1387+00	9		2		0		1	
US 36 SB		2		2		0		1	
US 36 NB	1411+00 to 1428+00	24		4		11		2	
US 36 SB		27		4		11		1	
PROJECT TOTALS		272		92		51		22	

FOR INFORMATION ONLY									
CRYSTAL				92					
YELLOW						51		22	
RED									
GREEN									
BLUE									
BLUE2 YELLOW1									

NOTES:

1) Quantities shown are approximate. Color and spacing shall be per M&S Standard S-612-1

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	Unit Information						Void:		Sheet Subset:		Subset Sheets:	
				Region 4			RDM		Sheet Number			

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TABULATION OF PAVEMENT MARKINGS

LOCATION				202-00250		627-00008										627-00013				627-30407		627-30410		NOTES			
				REMOVAL OF PAVEMENT MARKING		MODIFIED EPOXY PAVEMENT MARKING (GAL)										PAVEMENT MARKING PAINT (HIGH BUILD) (GAL)				PREFORMED THERMOPLASTIC PAVEMENT MARKING (WORD-SYMBOL) (SPECIAL) (SF)		PREFORMED THERMOPLASTIC PAVEMENT MARKING (Xwalk-Stop Line) (SF)					
				(SF)		4" YELLOW BROKEN LINE (LF)		6" YELLOW EDGE LINE (LF)		6" WHITE EDGE LINE (LF)		6" WHITE BROKEN LANE LINE (LF)		8" WHITE CHANNELIZING LINE (LF)		8" WHITE DOTTED EXTENSION LINE (LF)		GREEN BIKE BOX (SF)		(TEMPORARY) 4" DOUBLE YELLOW (LF)		(TEMPORARY) 4" WHITE (LF)			WHITE PAVEMENT MARKINGS		WHITE PAVEMENT MARKINGS
ROAD	STA.	to	STA.	Plan	As Built	Plan	As Built	Plan	As Built	Plan	As Built	Plan	As Built	Plan	As Built	Plan	As Built	Plan	As Built	Plan	As Built	Plan	As Built	Plan	As Built		
US 36				1000+00	to	1430+00																					
Striping and Widening Areas																											
US 36 NB	1000+00	to	1021+50	2,365																							
	1021+50	to	1022+25	165																							
	1022+25	to	1023+09	91																							
	1022+25	to	1023+10	92																							
	1023+10	to	1024+78	264																							
	1045+48	to	1068+67	2,553																							
	1045+67	to	1068+60	2,531																							
	1068+60	to	1069+28	75																							
	1068+67	to	1069+34	74																							
	1069+34	to	1071+41	228																							
	1069+70	to	1071+41	188																							
	1071+41	to	1071+49	223																							
	1071+41	to	1073+50	222																							
	1071+49	to	1077+88	472																							
	1073+50	to	1077+88	471																							
	1077+88	to	1078+43	123																							
	1078+43	to	1097+07	2,053			1,866																				
	1078+43	to	1098+38	2,409																							
	1078+43	to	1105+41	5,371									4,883														
	1106+62	to	1106+62																						26		
	1106+62	to	1106+78	229													208										
	1106+65	to	1106+73																					11 9			
	1106+78	to	1106+78																					26			
	1106+78	to	1111+38	496																							
	1106+80	to	1107+06	47									451														
	1106+82	to	1106+97										43														
	1107+06	to	1107+47	45																							
	1107+06	to	1108+14	110																							
1107+80	to	1107+95																									
1108+14	to	1112+32	459																								
1185+49	to	1187+37	218																								
1187+37	to	1190+12	306																								
1189+56	to	1199+66	235																								
1189+80	to	1202+11	1,352																								
1190+46	to	1190+61																									
1192+15	to	1192+26																									
1192+80	to	1192+95																									

- NOTES:**
- 1) 85 SF/GAL USED FOR EPOXY PAINT.
 - 2) 100 SF/GAL USED FOR PAVEMENT MARKING PAINT (HIGH BUILD).
 - 3) FOR DETAILS OF PAVEMENT MARKING LINES AND LINE PAVEMENT, SEE STANDARD S-627-1.
 - 4) THE CONTRACTOR SHALL COMPLETE AN INVENTORY OF EXISTING STRIPING LAYOUT PRIOR TO START OF PAVING ACTIVITIES.
 - 5) THE CONTRACTOR SHALL MATCH EXISTING STRIPING LAYOUT UNLESS DIRECTED OTHERWISE BY THE ENGINEER.

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TABULATION OF PAVEMENT MARKINGS																																		
LOCATION				202-00250		627-00008												627-00013				627-30407		627-30410		NOTES								
				REMOVAL OF PAVEMENT MARKING		MODIFIED EPOXY PAVEMENT MARKING (GAL)												PAVEMENT MARKING PAINT (HIGH BUILD) (GAL)				PREFORMED THERMOPLASTIC PAVEMENT MARKING (WORD-SYMBOL) (SPECIAL) (SF)		PREFORMED THERMOPLASTIC PAVEMENT MARKING (Xwalk-Stop Line) (SF)										
				(SF)		4" YELLOW BROKEN LINE (LF)		6" YELLOW EDGE LINE (LF)		6" WHITE EDGE LINE (LF)		6" WHITE BROKEN LANE LINE (LF)		8" WHITE CHANNELIZING LINE (LF)		8" WHITE DOTTED EXTENSION LINE (LF)		GREEN BIKE BOX (SF)		(TEMPORARY) 4" DOUBLE YELLOW (LF)		(TEMPORARY) 4" WHITE (LF)		WHITE PAVEMENT MARKINGS			WHITE PAVEMENT MARKINGS							
ROAD	STA.	to	STA.	Plan	As Built	Plan	As Built	Plan	As Built	Plan	As Built	Plan	As Built	Plan	As Built	Plan	As Built	Plan	As Built	Plan	As Built	Plan	As Built	Plan	As Built									
US 36				1000+00	to	1430+00																												
Striping and Widening Areas																																		
US 36 NB	1196+09	to	1196+21																									22.5	Only Striping					
	1196+49	to	1196+64																											24	Bike & Straight Arrow Symbol			
	1198+94	to	1199+09																											24	Bike & Straight Arrow Symbol			
	1199+66	to	1201+49	1,078					980																									
	1200+32	to	1200+44																													16.1	RT Turn Symbol	
	1200+79	to	1200+94																													24	Bike & Straight Arrow Symbol	
	1201+49	to	1202+69	132																														
	1202+12	to	1202+27																													24	Bike & Straight Arrow Symbol	
	1255+26	to	1256+92	183																														
	1255+54	to	1264+31	966																														
	1255+65	to	1255+79																													24	Bike & Straight Arrow Symbol	
	1256+92	to	1263+67	741					674																									
	1257+34	to	1257+46																													16.1	RT Turn Symbol	
	1258+01	to	1258+16																													24	Bike & Straight Arrow Symbol	
	1259+83	to	1259+98																													24	Bike & Straight Arrow Symbol	
	1260+32	to	1260+42																													22.5	Only Striping	
	1261+39	to	1261+54																													24	Bike & Straight Arrow Symbol	
	1263+06	to	1263+18																													16.1	RT Turn Symbol	
	1263+38	to	1263+53																													24	Bike & Straight Arrow Symbol	
	1263+67	to	1264+67	111																														
	1264+22	to	1264+37																													24	Bike & Straight Arrow Symbol	
	1378+81	to	1380+24	157																														
	1378+88	to	1379+03																													24	Bike & Straight Arrow Symbol	
	1379+08	to	1385+96	756																														
	1380+16	to	1380+31																													24	Bike & Straight Arrow Symbol	
	1380+82	to	1380+92	16																													16.1	RT Turn Symbol
	1381+77	to	1381+89	23																													22.5	Only Striping
	1382+15	to	1382+30																													24	Bike & Straight Arrow Symbol	
1383+12	to	1386+29	349																															
1383+05	to	1383+15	16																													16.1	RT Turn Symbol	
1379+79	to	1379+51																																
1379+91	to	1386+88	809					735																										
1417+76	to	1425+28	827					752																										
1425+28	to	1426+66	304																															
1425+48	to	1425+63																													24	Bike & Straight Arrow Symbol		
1426+43	to	1426+58																													24	Bike & Straight Arrow Symbol		

NOTES:
 1) 85 SF/GAL USED FOR EPOXY PAINT.
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TABULATION OF PAVEMENT MARKINGS

LOCATION				202-00250		627-00008										627-00013				627-30407		627-30410					
				REMOVAL OF PAVEMENT MARKING		MODIFIED EPOXY PAVEMENT MARKING (GAL)										PAVEMENT MARKING PAINT (HIGH BUILD) (GAL)				PERFORMED THERMOPLASTIC PAVEMENT MARKING (WORD-SYMBOL) (SPECIAL) (SF)		PERFORMED THERMOPLASTIC PAVEMENT MARKING (Xwalk-Stop Line) (SF)					
				(S ²)		4" YELLOW BROKEN LINE (LF)		6" YELLOW EDGE LINE (LF)		6" WHITE EDGE LINE (LF)		6" WHITE BROKEN LANE LINE (LF)		8" WHITE CHANNELIZING LINE (LF)		8" WHITE DOTTED EXTENSION LINE (LF)		GREEN BIKE BOX (SF)		(TEMPORARY) 4" DOUBLE YELLOW (LF)		(TEMPORARY) 4" WHITE (LF)		WHITE PAVEMENT MARKINGS		WHITE PAVEMENT MARKINGS	
ROAD	STA.	to	STA.	Plan	As Built	Plan	As Built	Plan	As Built	Plan	As Built	Plan	As Built	Plan	As Built	Plan	As Built	Plan	As Built	Plan	As Built	Plan	As Built				
Resurfacing Area																											
US 36 NB	1111+40	to	1321+94															0		23,022							
	1111+40	to	1321+94				13,852											15,237		0							
US 36 SB	1111+40	to	1321+94															0		22,975							
	1111+40	to	1321+94				8,957											9,853		0							
PROJECT SUBTOTALS (LF)				-		0	22,809		41,815		0		0		0			25,090		45,997		-		-			
PROJECT SUBTOTALS (SF)				0		0	11,405		20,908		0		0		0			16,727		15,332		0		0			
PROJECT SUBTOTALS (GAL)				0		0	134		246		0		0		0		0	167		153		-		-			
PROJECT GRAND TOTAL				638	0	29	0	134	0	362	0	24	0	0	0	24	0	2	0	167	0	153	0	1431	0	142	0

- NOTES:**
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Region 4

RDM


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TABULATION OF TRAFFIC CONTROL ITEMS

ITEM NO.	ITEM	UNITS	QUANTITY
630-00000	FLAGGING	HR	3500
630-00007	TRAFFIC CONTROL INSPECTION	DAY	30
630-00012	TRAFFIC CONTROL MANAGEMENT	DAY	65
630-80341	CONSTRUCTION TRAFFIC SIGN (PANEL SIZE A)	EA	24
630-80342	CONSTRUCTION TRAFFIC SIGN (PANEL SIZE B)	EA	41
630-80355	PORTABLE MESSAGE SIGN PANEL	EA	2
630-80358	ADVANCE WARNING FLASHING OR SEQUENCING ARROW PANEL (C TYPE)	EA	2
630-80360	DRUM CHANNELIZING DEVICE	EA	125
630-80363	DRUM CHANNELIZING DEVICE (WITH LIGHT) (FLASHING)	EA	4
630-80380	TRAFFIC CONE	EA	150

NOTES:


- 1) See Colorado Department of Transportation Standard Plan S-630-1 (Case No. 1) for typical placement of the construction traffic control devices.
- 2) When speed limit reduction is required, such reduction shall be in accordance with CDOT Form 568 authorization and declaration of temporary speed limits and is subject to approval by Region 4 Traffic Engineer.
- 3) Traffic device quantities are estimated based on current Traffic Control Requirements. Additional signs may be needed based on the Contractor's actual Method of Handling Traffic.

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	File Name: 24063_Tabulation.dgn	Date:	Comments	Init.		No Revisions:			STA 0361 129
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SCHEDULE OF CONSTRUCTION TRAFFIC CONTROL DEVICES					
SIGN CODE	LEGEND	DIMENSIONS (INCHES)	PANEL SIZE		
			A	B	Special
			EACH		SF
			US36		
G20-5P	WORK/ZONE (PLAQUE)	24 x 18	6		
G20-10	XYZ/CONSTRUCTION/THANKS YOU/555-555-5555	48 x 48		4	
G20-11	ROAD/WORK/MMYY-MMYY/FOR INFORMATION/555-555-5555	48 x 48		2	
R2-1(40)	SPEED/LIMIT/35	24 x 30	2		
R2-1(45)	SPEED/LIMIT/45	24 x 30	2		
R2-1(55)	SPEED/LIMIT/55	24 x 30	2		
R2-1(65)	SPEED/LIMIT/65	24 x 30	2		
R2-6P	FINES/DOUBLE (PLAQUE)	24 x 24	2		
R4-1	DO NOT PASS	24 x 30	2		
R4-2	PASS WITH CARE	24 x 30	2		
R52-6a	BEGIN/FINES/DOUBLE/IN WORK/ZONE	36 x 48		2	
R52-6b	END/FINES/DOUBLE/IN WORK/ZONE	36 x 48		2	
W3-4	BE/PREPARED/TO/STOP	36 x 36		2	
W4-2R	RIGHT LANE ENDS	36 x 36		2	
W8-8	ROUGH/ROAD	36 x 36		2	
W8-9a	SHOULDER DROP OFF	36 x 36		2	
W8-11	UNEVEN/LANES	36 x 36		2	
W8-11	BUMP	36 x 36		4	
W13-1	XX/MPH	24 x 24	2		
W16-2P	XX/FEET(PLAQUE)	24 x 18	2		
W20-1	ROAD/WORK/AHEAD	36 x 36		4	
W20-4	ONE LANE/ROAD/AHEAD	36 x 36		2	
W20-5R	RIGHT LANE CLOSED 1/2 MILE	36 x 36		2	
W20-7	FLAGGER(SYMBOL)	36 x 36		4	
W8-15	GROOVED/PAVEMENT	36 x 36		2	
W21-5	SHOULDER/WORK	36 x 36		2	
W21-20	HIGHWAY/PAINTING/AHEAD	36 x 36		1	
TOTALS			24	41	0

*See sign layout plan sheets for approximate locations. Final location to be approved by the Project Engineer

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	File Name: 24063_Tabulation.dgn	Date:	Comments	Init.	 1050 Lee Hill Dr Boulder, CO 80302 Phone: 303-546-5654 Fax: 303-444-0751		No Revisions:		Designer:		Structure Numbers		STA 0361 129
	Horiz. Scale: 1"=50' Vert. Scale: As Noted						Revised:				Detailer:		24063
	Unit Information						Void:		Sheet Subset:		Subset Sheets:		Sheet Number
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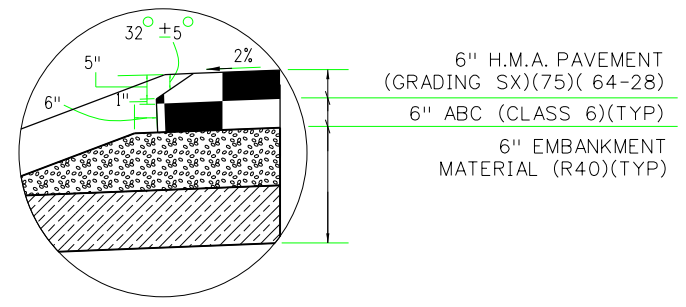
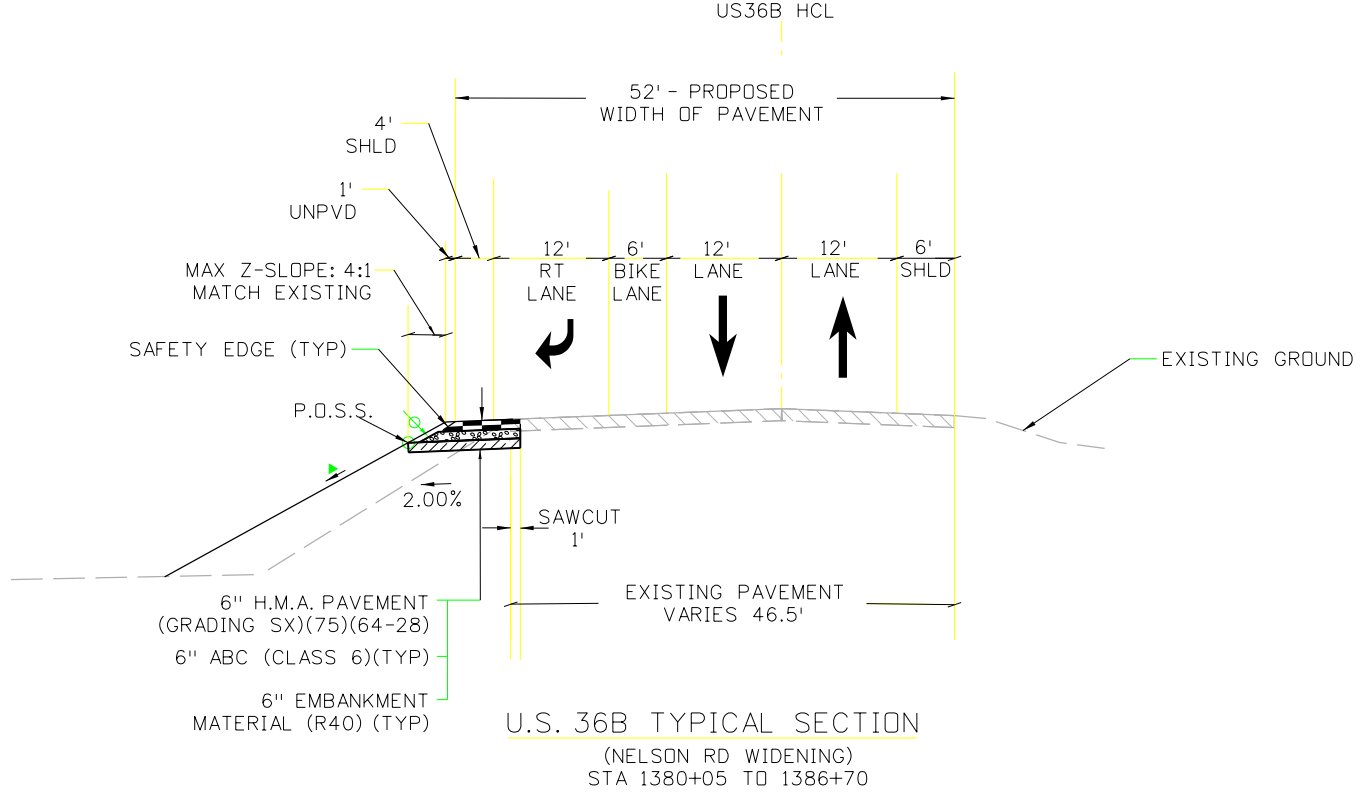
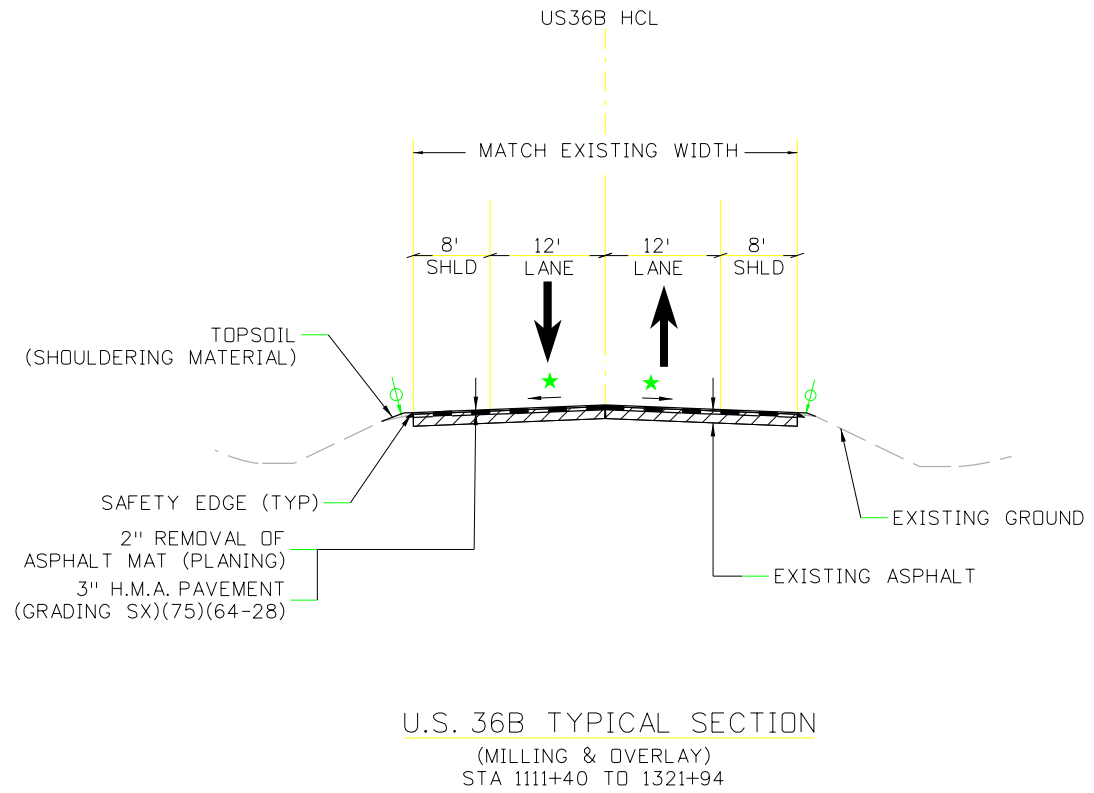
SUMMARY OF EARTHWORK QUANTITIES			
	US 36 - Site No. 1	US 36 - Site No. 2	Total
PAY QUANTITIES:			
UNCLASSIFIED EXCAVATION (COMPLETE IN PLACE)			
	<u>CUBIC YARDS</u>	<u>CUBIC YARDS</u>	<u>CUBIC YARDS</u>
ROADWAY REGULAR UNCLASSIFIED EXCAVATION QUANTITY (SEE NOTE 2)	315	270	585
ADDITIONAL UNCLASSIFIED EXCAVATION QUANTITY FOR CUT SLOPE TREATMENT	16	14	29
TOTAL QUANTITY FOR UNCLASSIFIED EXCAVATION MATERIAL (COMPLETE IN PLACE) PAY QUANTITY	331	284	614
TOPSOIL			
TOTAL TOPSOIL PAY QUANTITY	335	240	575
FOR INFORMATION ONLY:			
EMBANKMENT MATERIAL (COMPLETE IN PLACE)			
	<u>CUBIC YARDS</u>	<u>CUBIC YARDS</u>	<u>CUBIC YARDS</u>
ROADWAY REGULAR EMBANKMENT QUANTITY (SEE NOTE 2)	260	110	370
EMBANKMENT MATERIAL (COMPLETE IN PLACE) (R40)	100	70	170
TOTAL FOR EMBANKMENT MATERIAL (COMPLETE IN PLACE) (SEE NOTES 5 & 6)	360	180	540
FOR INFORMATION ONLY - EARTHWORK BALANCE			
UNCLASSIFIED EXCAVATION (COMPLETE IN PLACE) (CUT)			
	<u>CUBIC YARDS</u>	<u>CUBIC YARDS</u>	<u>CUBIC YARDS</u>
TOTAL UNCLASSIFIED EXCAVATION	315	270	585
STRUCTURE EXCAVATION	0	285	285
TOTAL MATERIAL AVAILABLE FROM EXCAVATION	315	555	870
EMBANKMENT MATERIAL (COMPLETE IN PLACE) (FILL)			
	<u>CUBIC YARDS</u>	<u>CUBIC YARDS</u>	<u>CUBIC YARDS</u>
EMBANKMENT MATERIAL	360	180	540
TOTAL MATERIAL NEEDED FOR EMBANKMENTS	360	180	540
EMBANKMENT MATERIAL EXPANDED			
TOTAL EMBANKMENT MULTIPLIED BY COMPACTION FACTOR (EMBANKMENT COMPACTION FACTOR= 1.15 (SEE NOTE 1))	414	207	621
BALANCE			
TOTAL EXCESS MATERIAL			
TOTAL MATERIAL AVAILABLE FROM EXCAVATIONS LESS TOTAL MATERIAL NEEDED FOR EMBANKMENT	-99	348	249

Notes:

1. THE COMPACTION FACTOR FOR ONSITE MATERIALS HAS NOT BEEN VERIFIED.
2. THIS VALUE DOES NOT INCLUDE ITEMS PAID FOR SEPARATELY I.E. BASECOURSE, HARDSCAPE, TOPSOIL, R-40 MATERIAL, ETC.
3. OVERBUILD REQUIRED TO MEET THE EARTHWORK SPECIFICATIONS IS REQUIRED BUT IS NOT INCLUDED OR CALCULATED IN THIS TABULATION.
4. REMOVAL OF EXISTING TOPSOIL IS PAID FOR AS CLEARING AND GRUBBING.
5. STRUCTURAL FILL WAS CALCULATED IS INCLUDED IN THE EMBANKMENT QUANTITY.
6. THE R-40 MATERIAL USED FOR STRUCTURAL STABILITY AS SHOWN ON THE TYPICAL SECTIONS AND CROSS SECTIONS IS INCLUDED AS PART OF TOTAL EMBANKMENT MATERIAL.

All seals for this set of drawings are applied to the cover page(s)	Print Date: 8/10/2022	Sheet Revisions			Colorado Department of Transportation		As Constructed		SUMMARY OF EARTHWORK QUANTITIES			Project No./Code	
	File Name: 24063_Tabulation.dgn		Date:	Comments	Init.	1050 Lee Hill Dr Boulder, CO 80302 Phone: 303-546-5654 Fax: 303-444-0751		No Revisions:		STA 0361 129			
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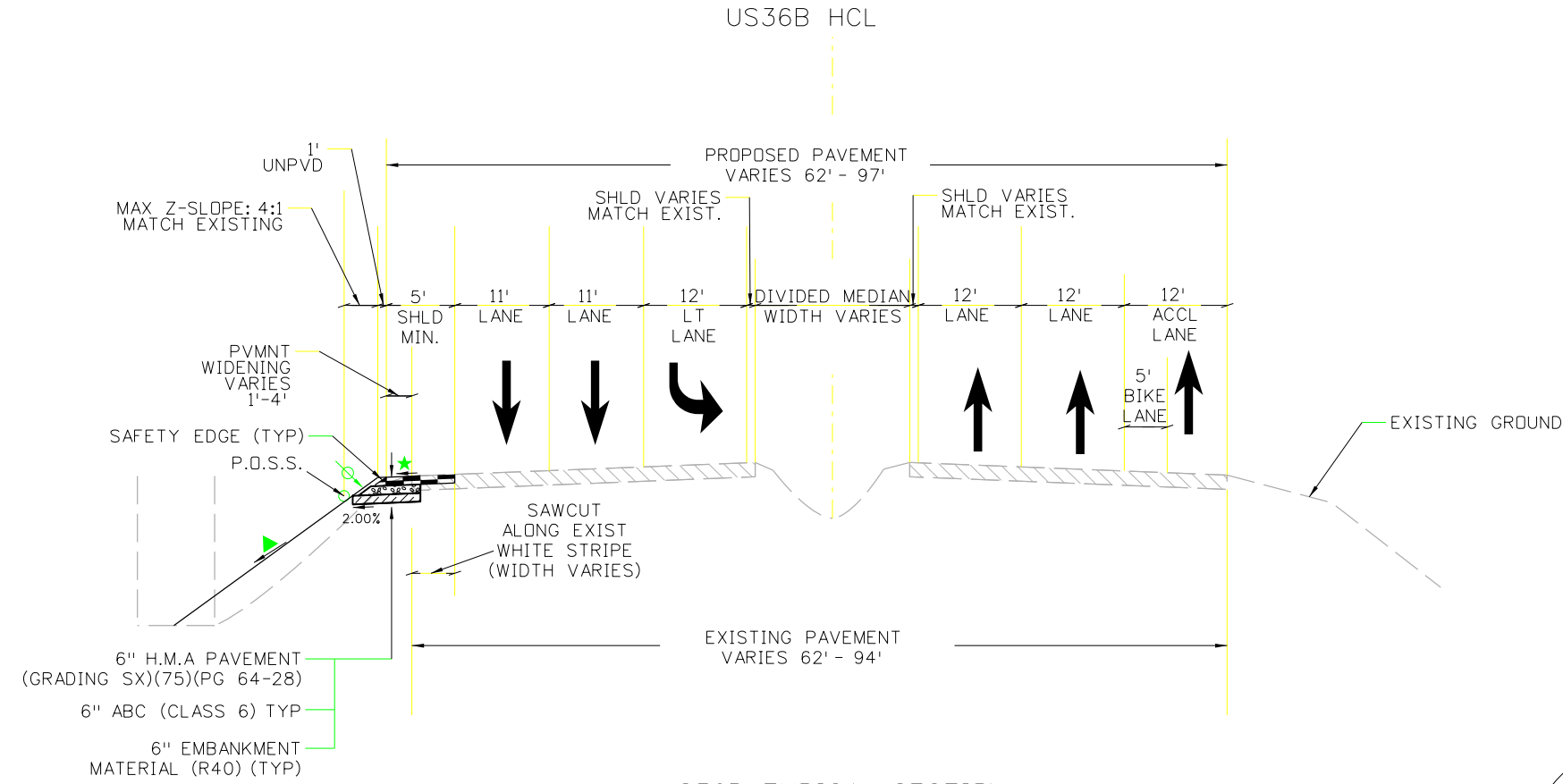
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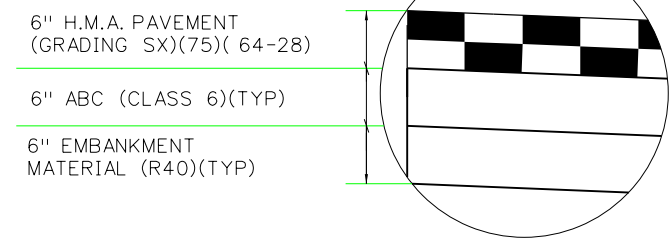
- GENERAL NOTES**
- ★ MATCH EXISTING GRADE
 - ▲ 4:1 MAX, MATCH EXISTING
 - ⊕ CONTRACTOR SHALL PLACE EMBANKMENT MATERIAL (R40) WITH 6" (MIN.) OF TOPSOIL COVER TO THIS LINE
 - H.M.A. - HOT MIX ASPHALT
 - P.D.S.S. - POINT OF SLOPE SELECTION

All seals for this set of drawings are applied to the cover page(s)	Print Date: 01/06/2022	Sheet Revisions			Colorado Department of Transportation		As Constructed		TYPICAL SECTION			Project No./Code	
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	Unit Information						Void:		Detailer:	Subset Sheets:	1 of		
					Region 4	RDM	Sheet Subset:		Sheet Number				

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US36B TYPICAL SECTION
 (LEFT HAND CANYON DR. WIDENING)
 STA 1417+25 TO 1425+30



FILL DETAIL (RAISED MEDIAN REMOVAL)

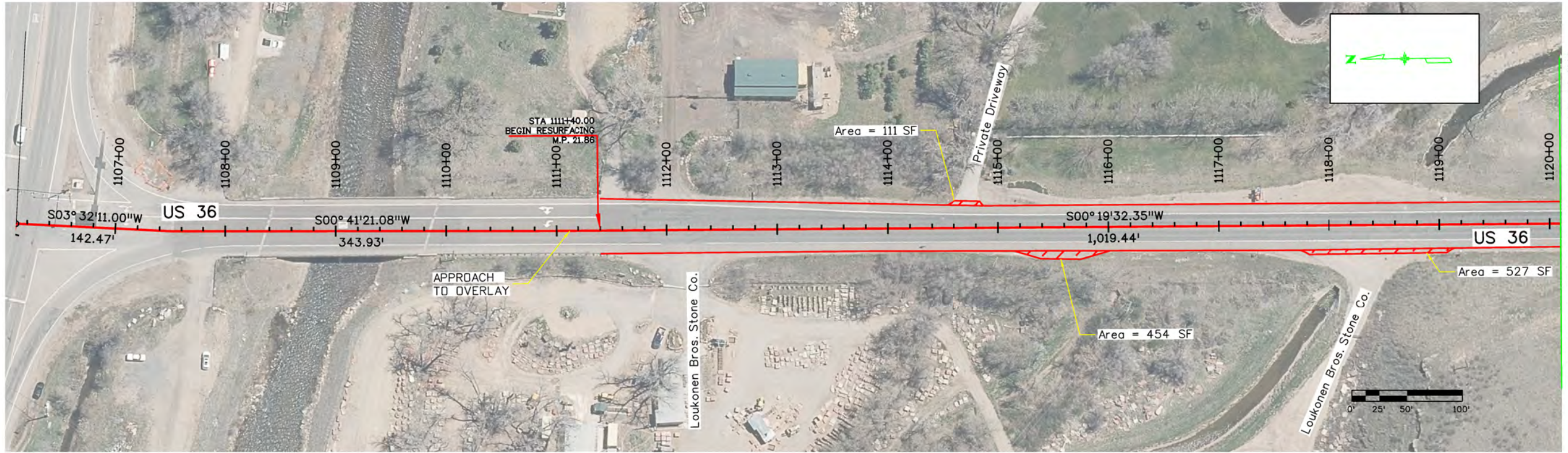
GENERAL NOTES

- ★ MATCH EXISTING GRADE
- ▲ 4:1 MAX, MATCH EXISTING
- ♫ CONTRACTOR SHALL PLACE EMBANKMENT MATERIAL (R40) WITH 6" (MIN.) OF TOPSOIL COVER TO THIS LINE

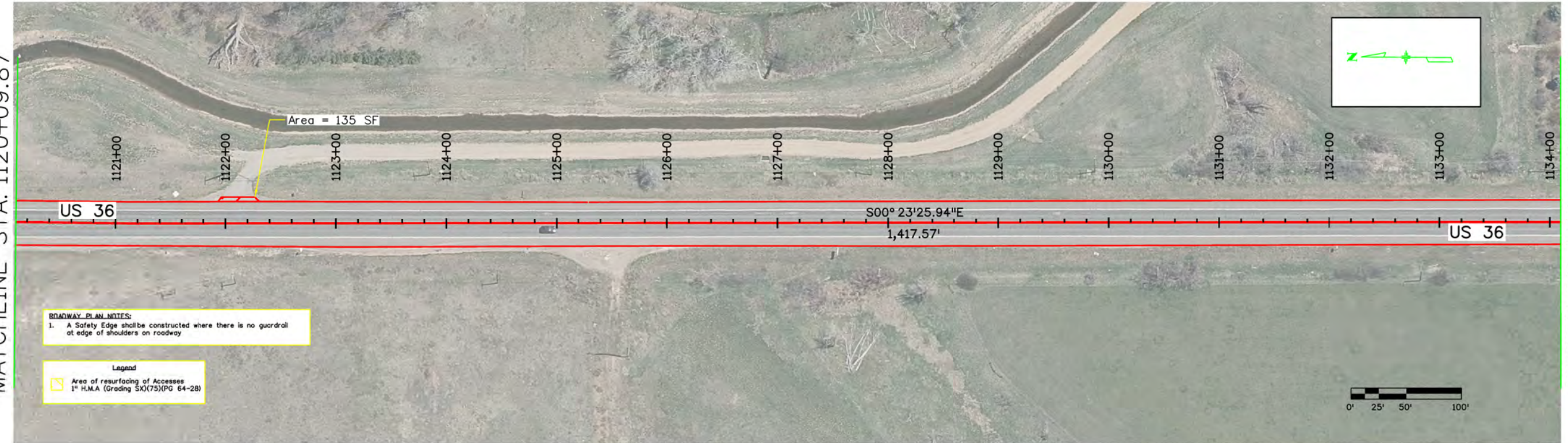
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 P.O.S.S. - POINT OF SLOPE SELECTION

All seals for this set of drawings are applied to the cover page(s)	Print Date: 01/06/2022	Sheet Revisions			Colorado Department of Transportation 1050 Lee Hill Dr. Boulder, CO 80302 Phone: 303-546-5654 Fax: 303-444-0751 Region 4	As Constructed	TYPICAL SECTION			Project No./Code
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MATCHLINE STA. 1120+09.87



MATCHLINE STA. 1134+09.87

MATCHLINE STA. 1120+09.87

ROADWAY PLAN NOTES:
 1. A Safety Edge shall be constructed where there is no guardrail at edge of shoulders on roadway


Legend
 Area of resurfacing of Accesses
 1" H.M.A. (Grading SX)(75)(PG 64-28)

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

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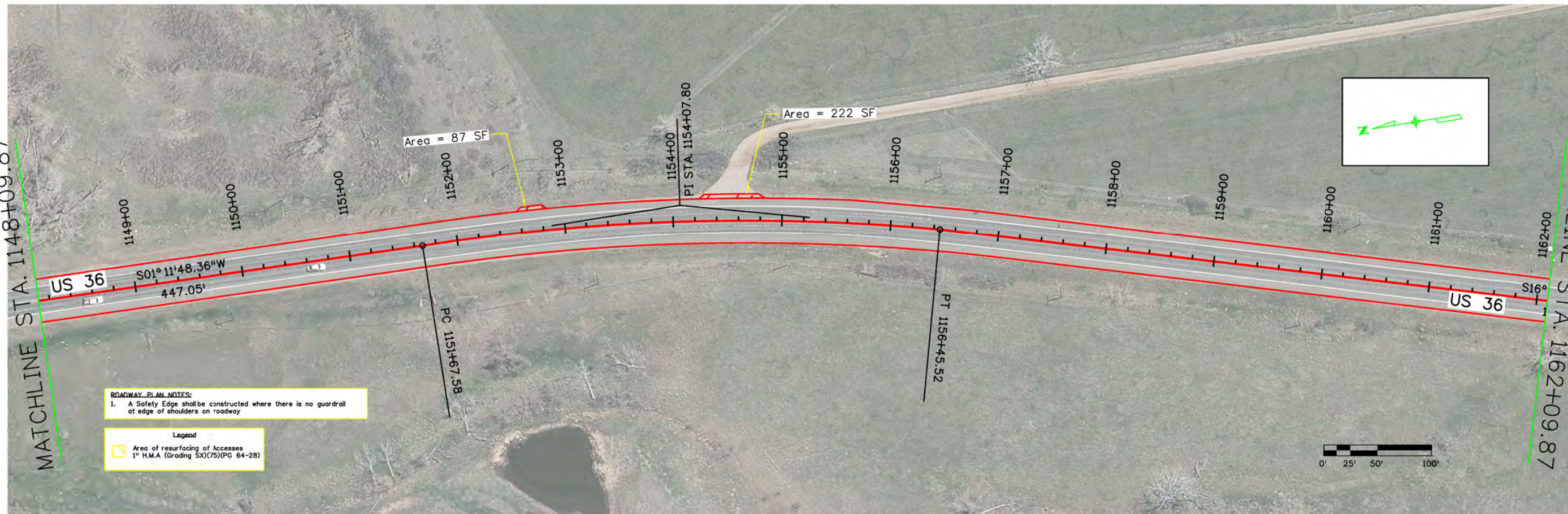
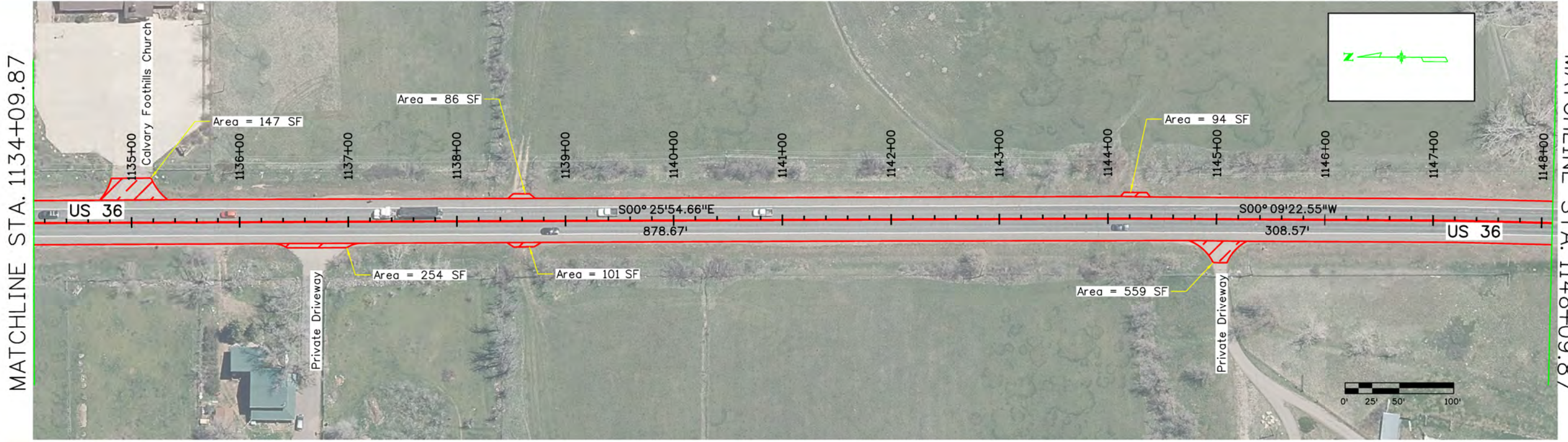
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As Constructed
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Detailer:	Subset Sheets:		
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Project No./Code	STA 0361 129
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Sheet Number	

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ROADWAY PLAN NOTES:

- A Safety Edge shall be constructed where there is no guardrail at edge of shoulders on roadway

Legend

Area of resurfacing of Accesses
1" H.M.A (Grading SX)(75)(PG 64-28)

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

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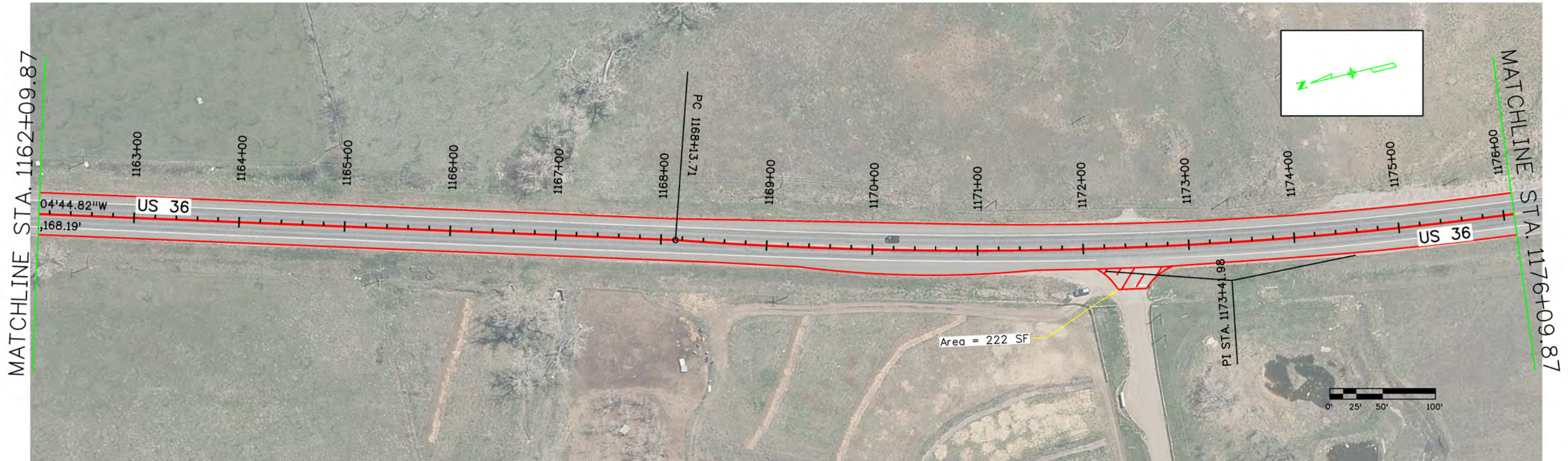
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Project No./Code	STA 0361 129
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Sheet Number	

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ROADWAY PLAN NOTES:
 1. A Safety Edge shall be constructed where there is no guardrail at edge of shoulders on roadway

Legend
 [Yellow Hatched Box] Area of resurfacing of Accesses
 1" H.M.A (Grading SX)(75)(PG 54-28)

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Unit Information

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Region 4

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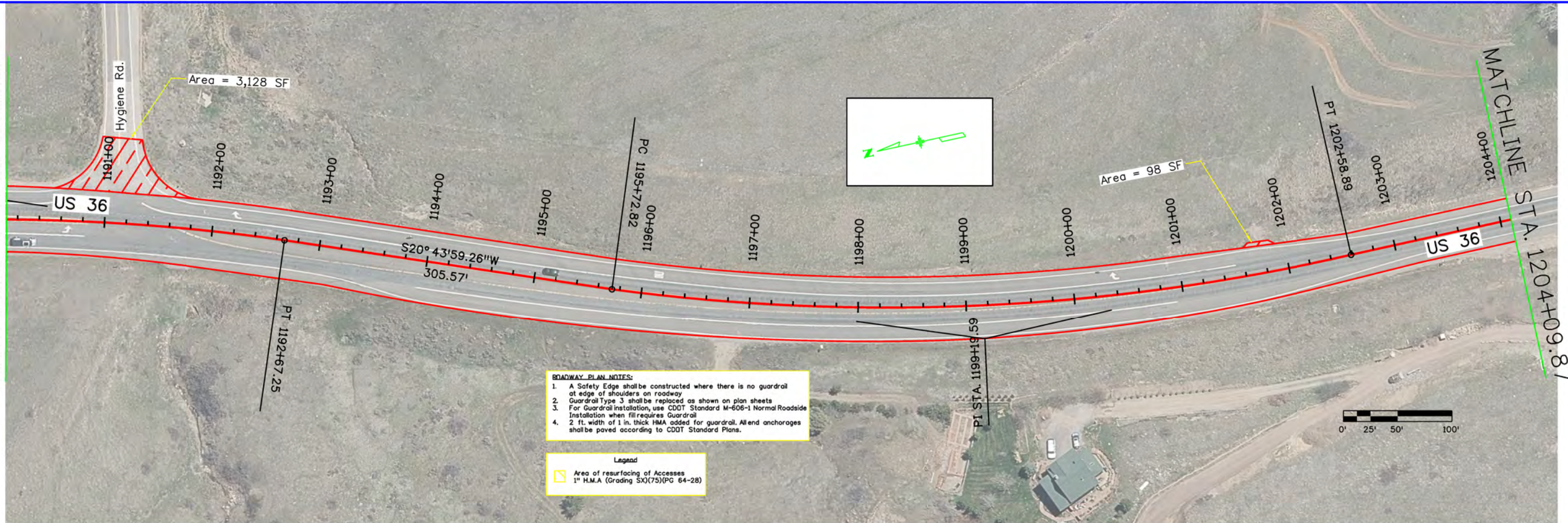
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MATCHLINE STA. 1190+09.87



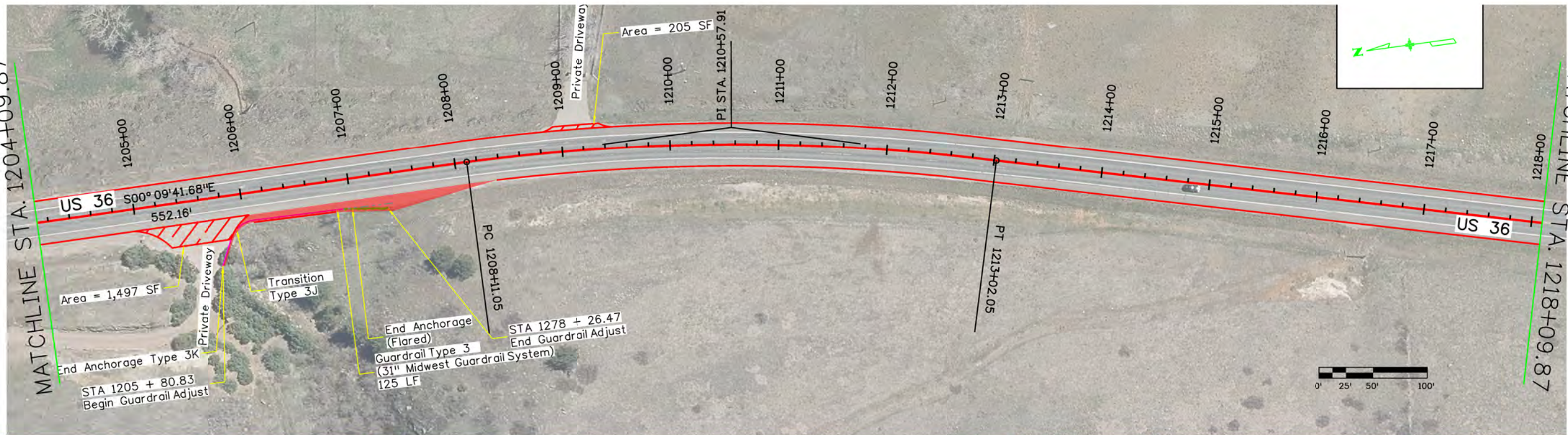
ROADWAY PLAN NOTES:

1. A Safety Edge shall be constructed where there is no guardrail at edge of shoulders on roadway
2. Guardrail Type 3 shall be replaced as shown on plan sheets
3. For Guardrail Installation, use CDOT Standard M-606-1 Normal Roadside Installation when fill requires Guardrail
4. 2 ft. width of 1 in. thick HMA added for guardrail. All end anchorages shall be paved according to CDOT Standard Plans.

Legend

Area of resurfacing of Accesses
1" H.M.A. (Grading SX)(75)(PG 64-28)

MATCHLINE STA. 1204+09.87



End Anchorage Type 3K
 STA 1205 + 80.83
 Begin Guardrail Adjust

Private Driveway
 Area = 1,497 SF

Transition Type 3J

End Anchorage (Flared)
 Guardrail Type 3
 (31" Midwest Guardrail System)
 125 LF

PC 1208+11.05
 PI STA. 1210+57.91

STA 1278 + 26.47
 End Guardrail Adjust

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RDM

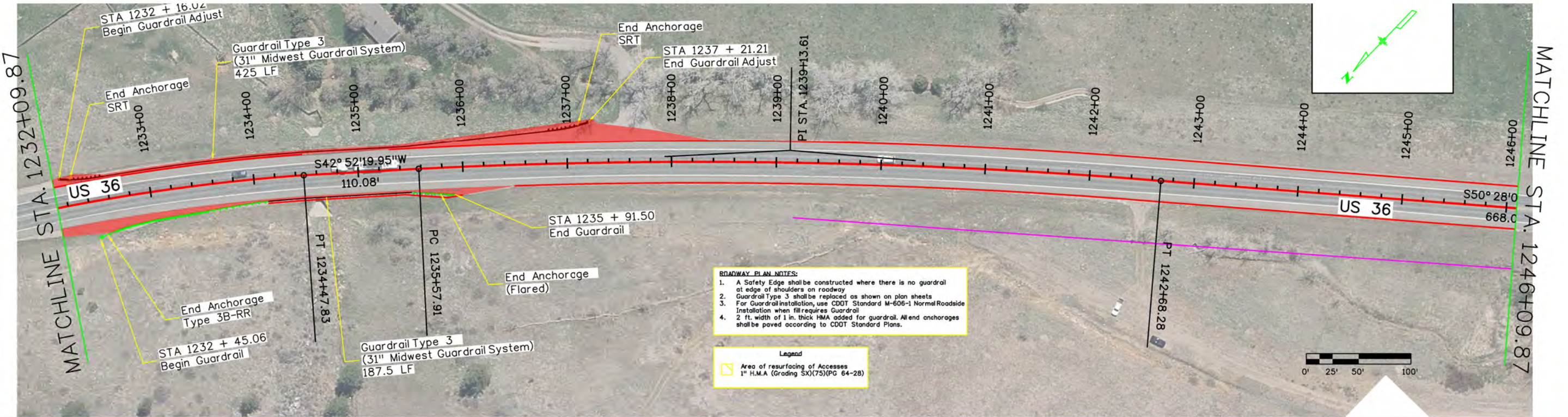
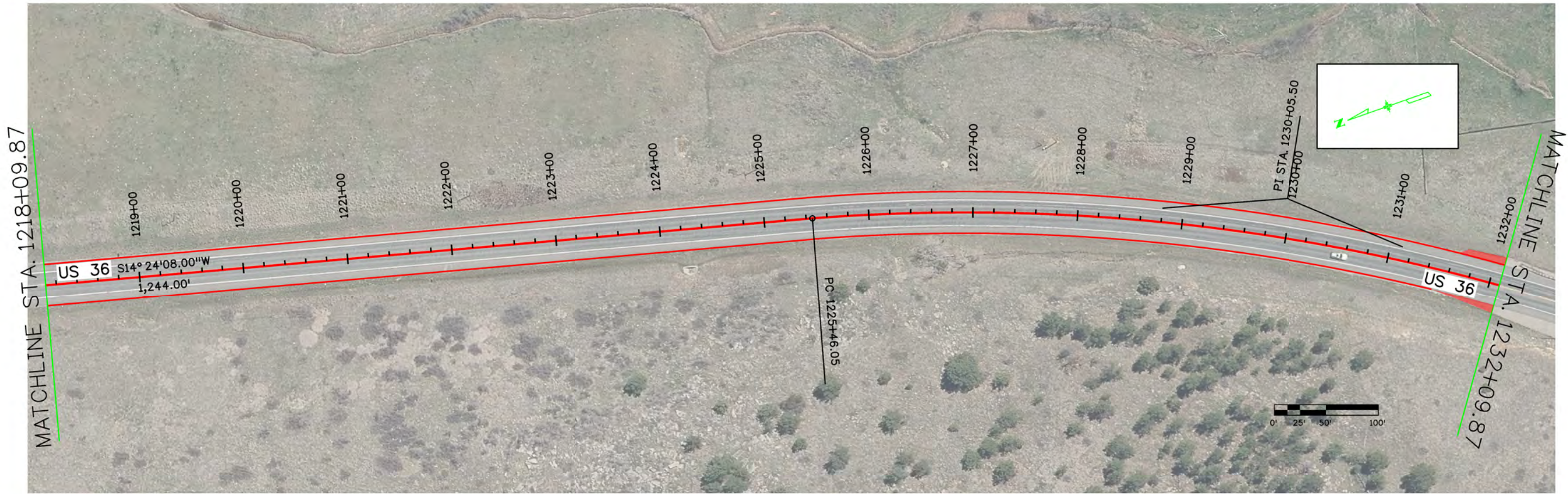
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Designer:	Structure Numbers:		
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Project No./Code	STA 0361 129
	24063
Sheet Number	

MATCHLINE STA. 1218+09.87

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- ROADWAY PLAN NOTES:**
1. A Safety Edge shall be constructed where there is no guardrail at edge of shoulders on roadway
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 3. For Guardrail installation, use CDOT Standard M-606-1 Normal Roadside Installation when fill requires Guardrail
 4. 2 ft. width of 1 in. thick HMA added for guardrail. All end anchorages shall be paved according to CDOT Standard Plans.


Legend
 Area of resurfacing of Accesses
 1\"/>

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

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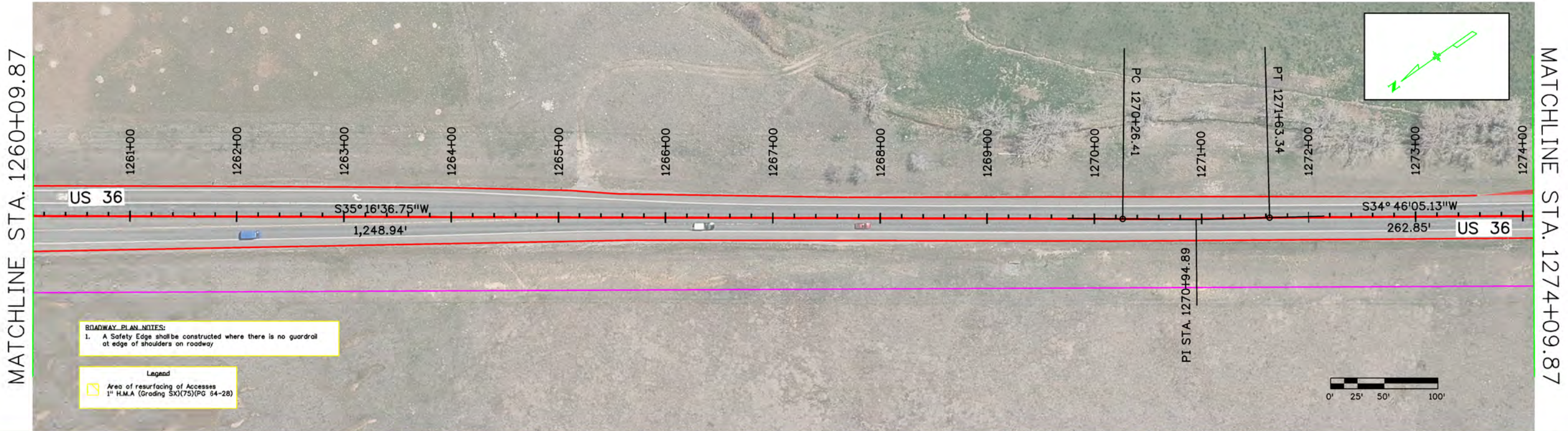
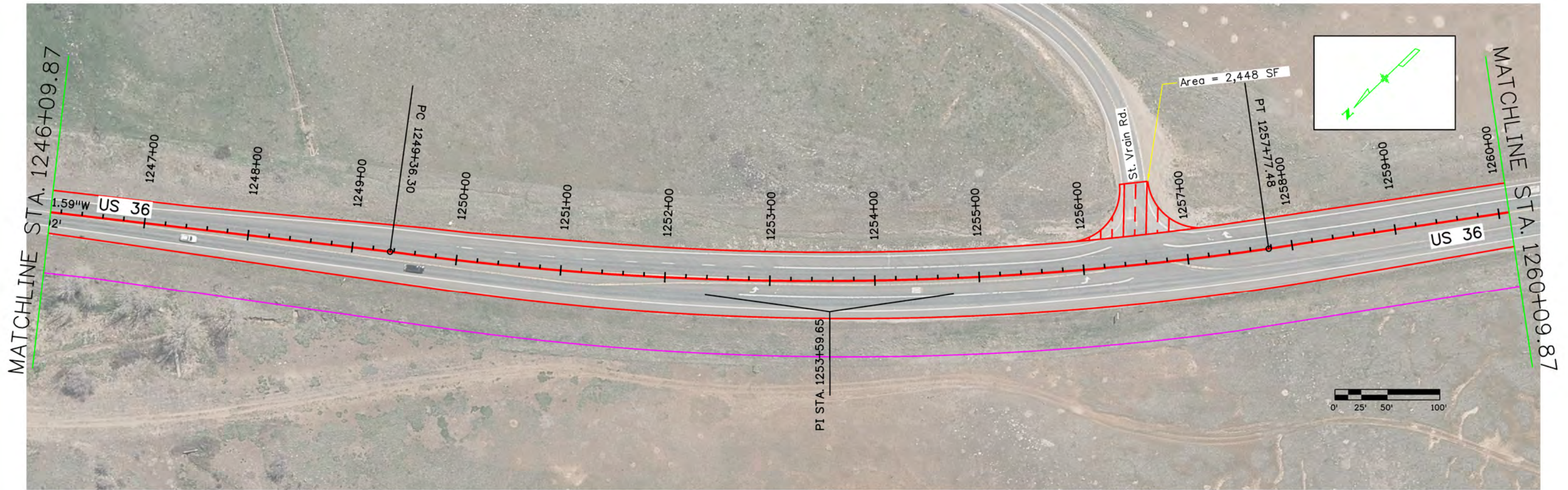
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Project No./Code	STA 0361 129
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Sheet Number	

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ROADWAY PLAN NOTES:

- A Safety Edge shall be constructed where there is no guardrail at edge of shoulders on roadway

Legend

- Area of resurfacing of Accesses
- 1" H.M.A (Grading SX)(75)(PG 64-28)

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

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Region 4

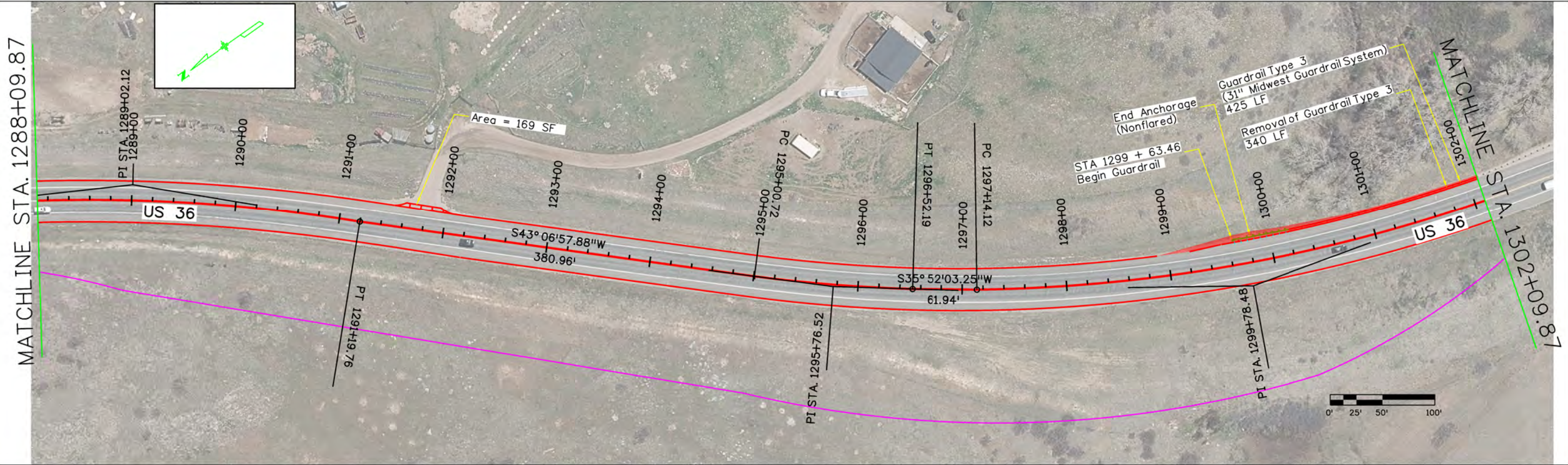
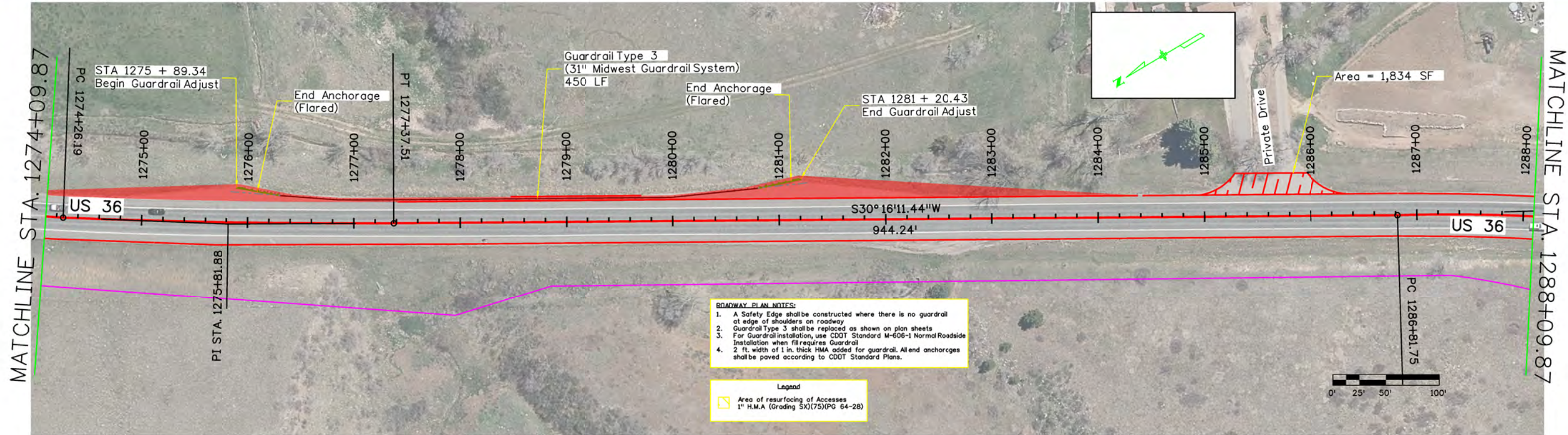
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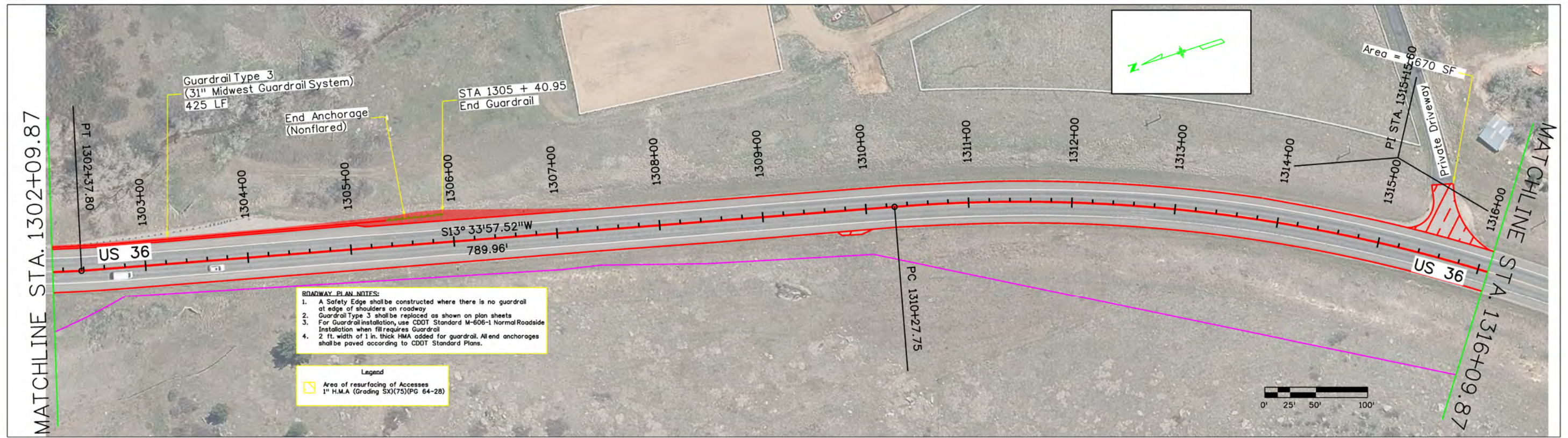
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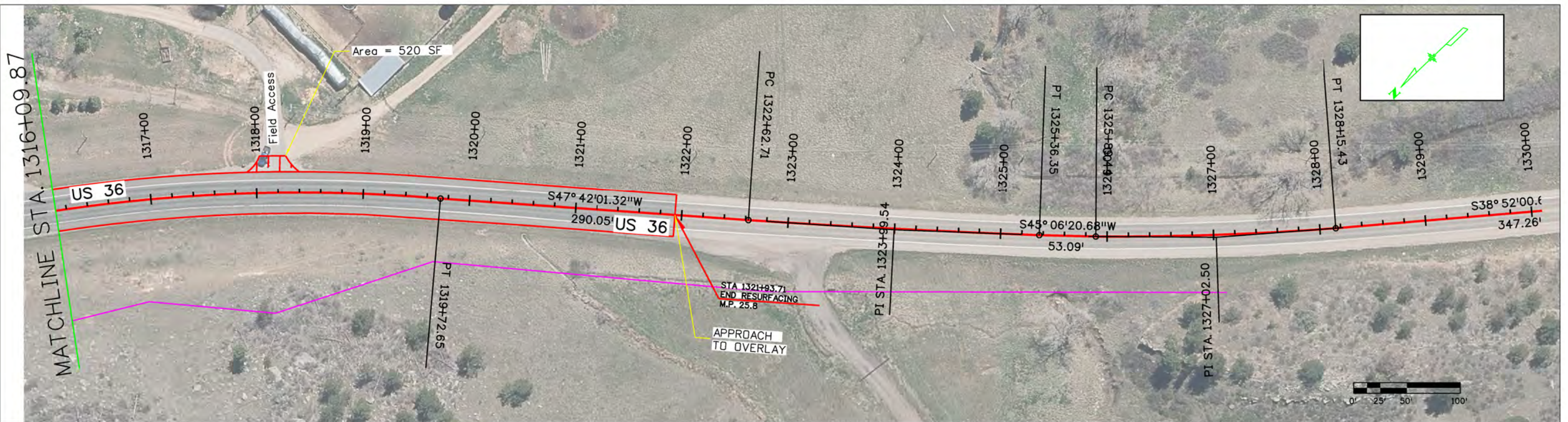


ROADWAY PLAN NOTES:

1. A Safety Edge shall be constructed where there is no guardrail at edge of shoulders on roadway
2. Guardrail Type 3 shall be replaced as shown on plan sheets
3. For Guardrail installation, use CDOT Standard M-606-1 Normal Roadside Installation when fill requires Guardrail
4. 2 ft. width of 1 in. thick HMA added for guardrail. All end anchorages shall be paved according to CDOT Standard Plans.

Legend

Area of resurfacing of Accesses
1" H.M.A (Grading SX)(75)(PG 64-28)



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

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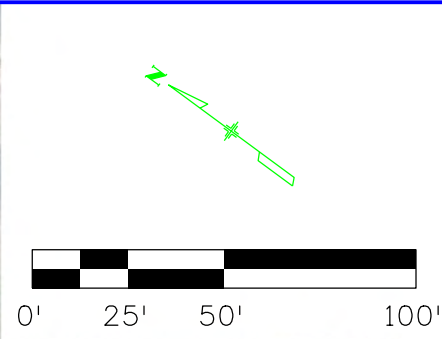
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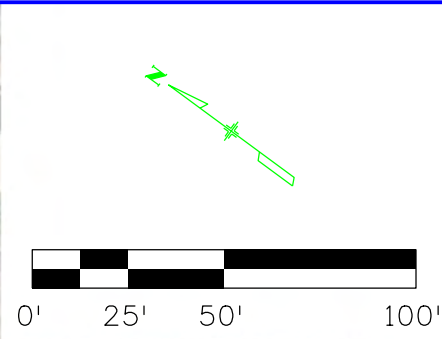
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	File Name: 2DLAYOUT_SIGNING_STRIPING.DGN	Date:	Comments	Init.	 1050 Lee Hill Dr Boulder, CO 80302 Phone: 303-546-5654 Fax: 303-444-0751			No Revisions:		Designer: _____ Detailer: _____ Sheet Subset: _____			Structure Numbers		STA 0361 129	
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 DC = 00° 55' 35\"
 LC = 455.631
 RC = 6185.000%

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Unit Information

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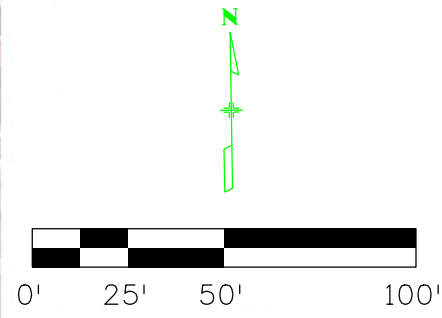
Colorado Department of Transportation

 1050 Lee Hill Dr
 Boulder, CO 80302
 Phone: 303-546-5654
 Fax: 303-444-0751
 Region 4 RDM

As Constructed
No Revisions:
Revised:
Void:

US 36 SIGNING & STRIPING PLAN SHEET	
Designer:	Structure Numbers
Detailer:	
Sheet Subset:	Subset Sheets: PLAN13 of

Project No./Code
STA 0361 129
24063
Sheet Number

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MATCH LINE STA 1026+20

MATCH LINE STA 1033+00

NO WORK

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

Print Date: 08/10/2022
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Date:	Comments	Init.

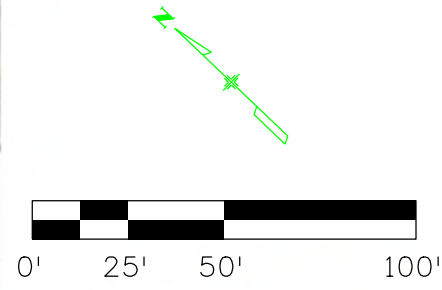
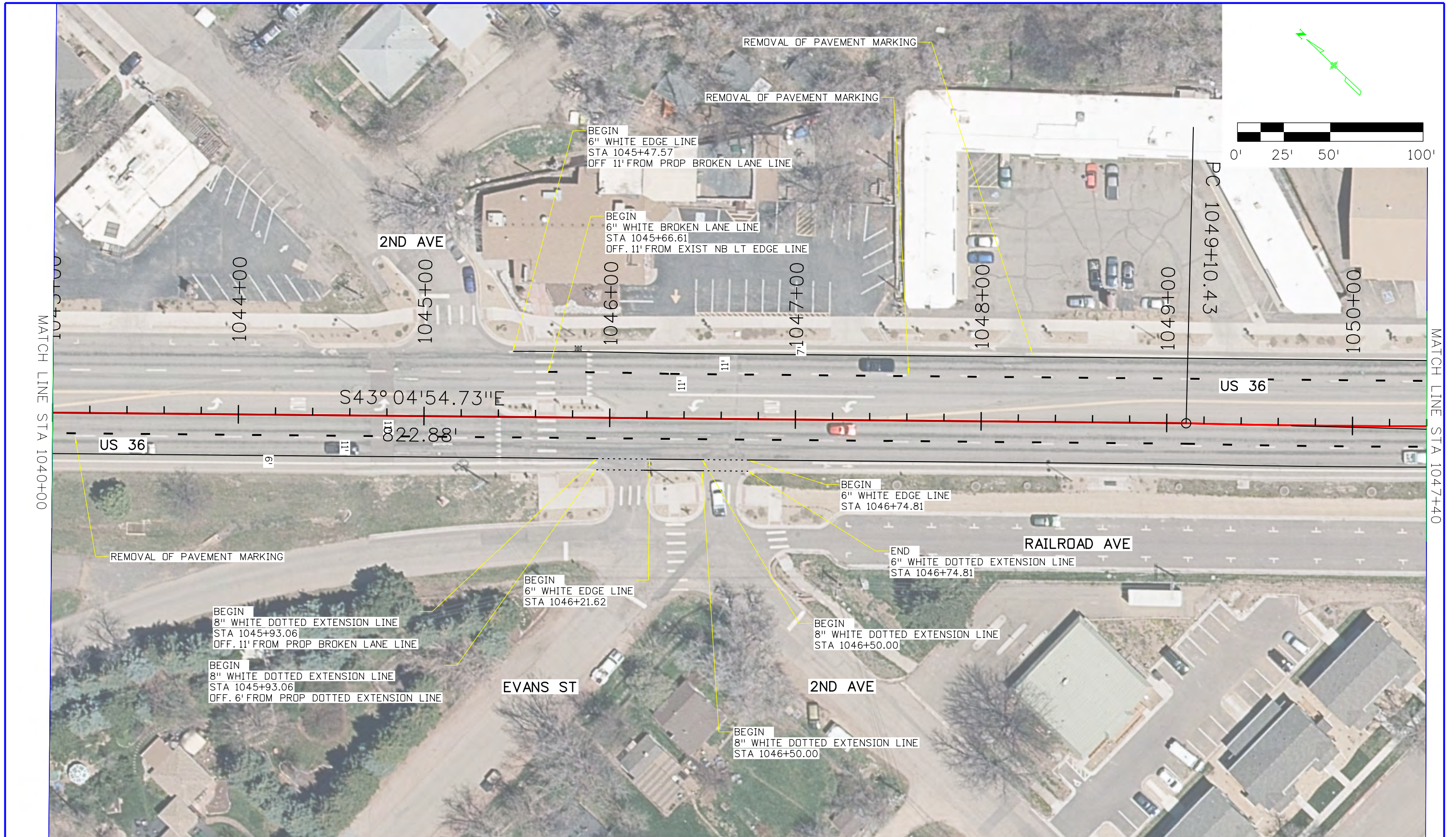
Colorado Department of Transportation
 1050 Lee Hill Dr
 Boulder, CO 80302
 Phone: 303-546-5654
 Fax: 303-444-0751
 Region 4 RDM

As Constructed
No Revisions:
Revised:
Void:

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Designer:	Structure Numbers
Detailer:	
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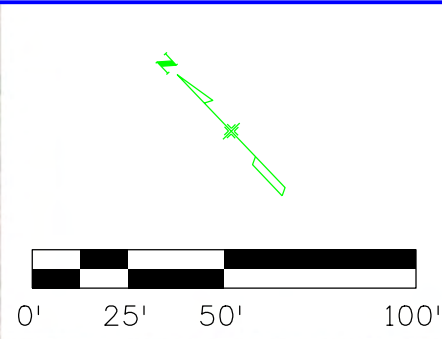
Project No./Code
STA 0361 129
24063
Sheet Number

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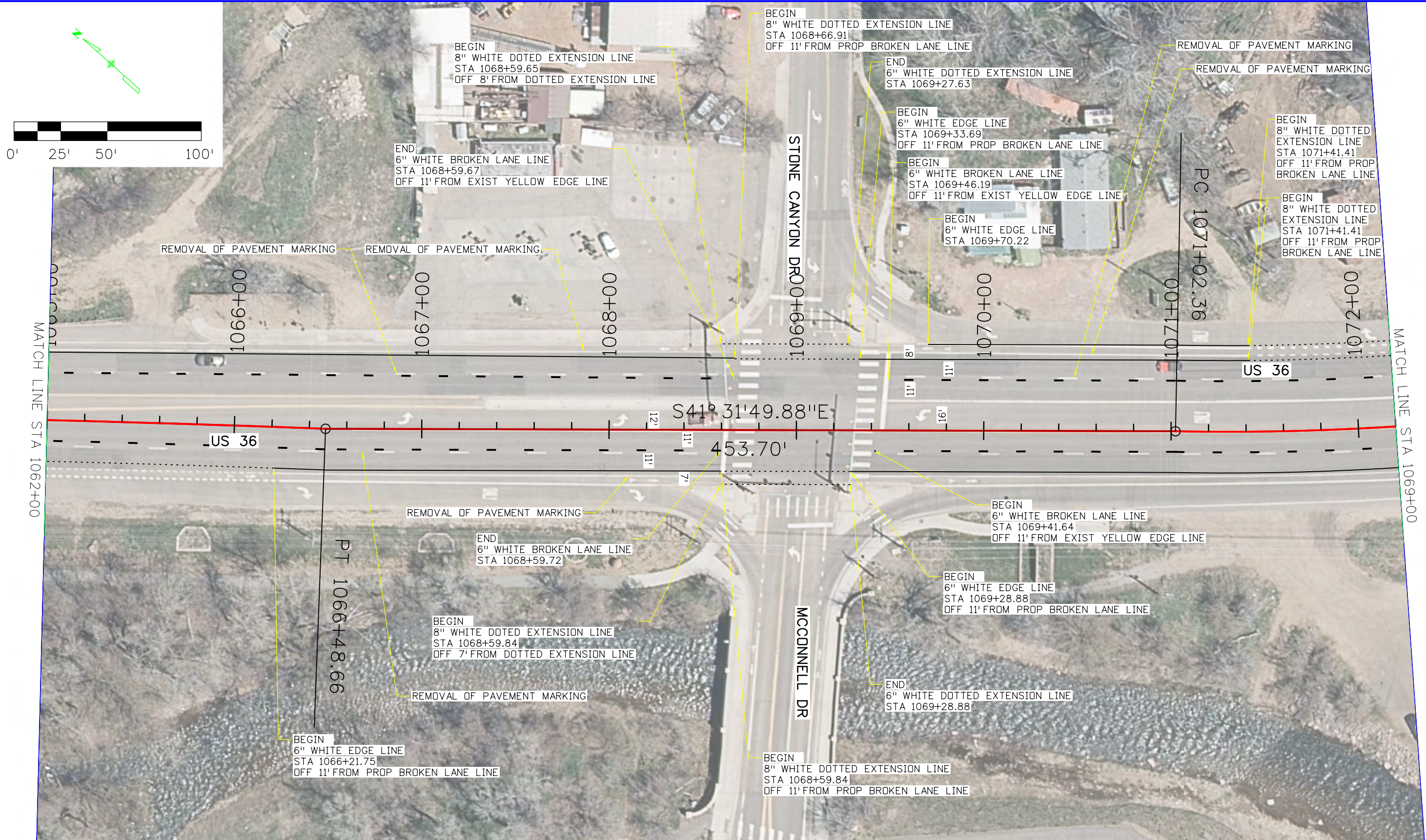
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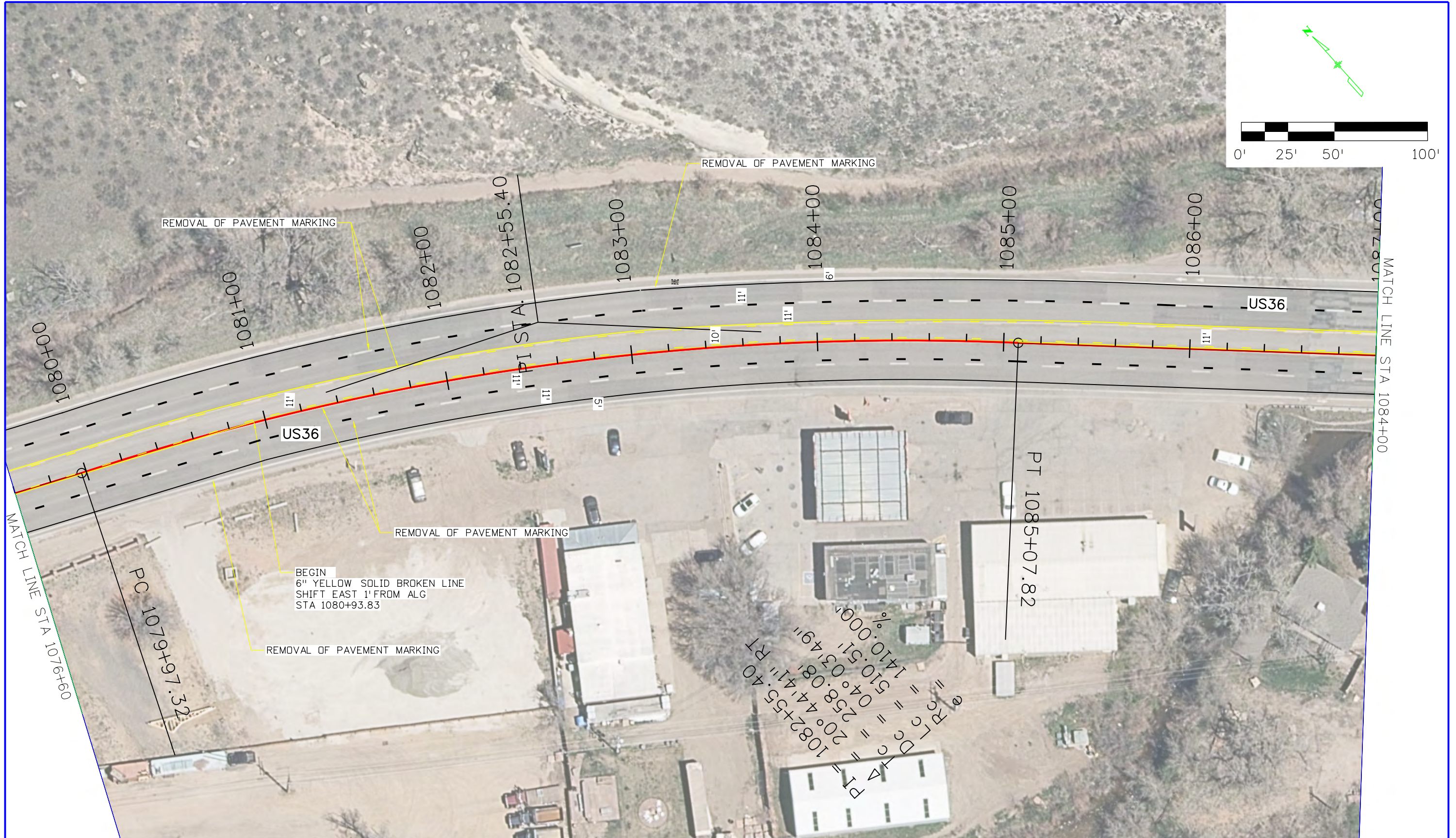
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All seals for this set of drawings are applied to the cover page(s)

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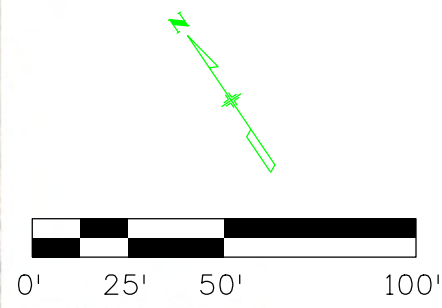
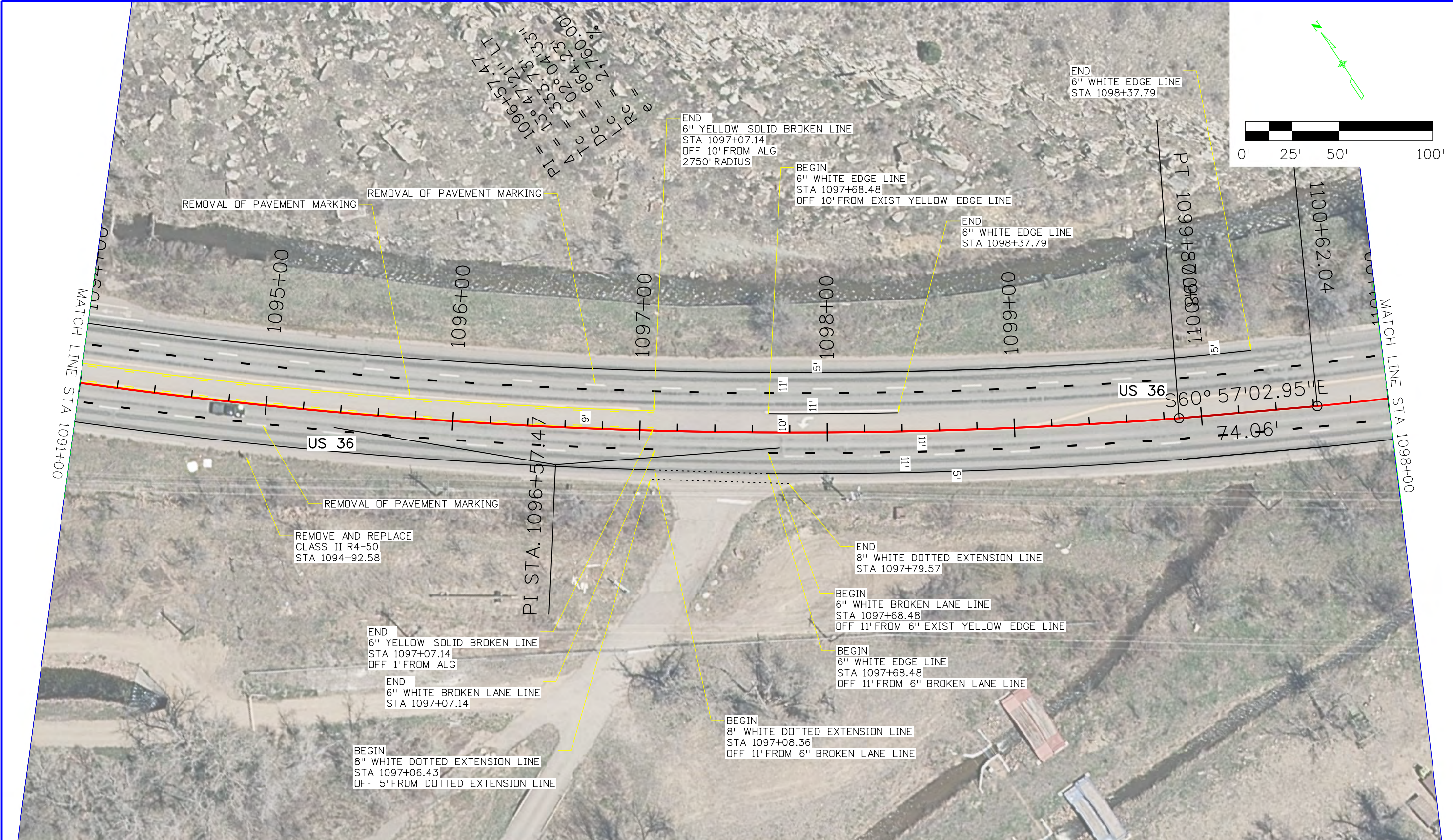
Colorado Department of Transportation

 1050 Lee Hill Dr
 Boulder, CO 80302
 Phone: 303-546-5654
 Fax: 303-444-0751
Region 4 RDM

As Constructed
No Revisions:
Revised:
Void:

US 36 SIGNING & STRIPING PLAN SHEET	
Designer:	Structure Numbers
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Project No./Code	
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Sheet Number	

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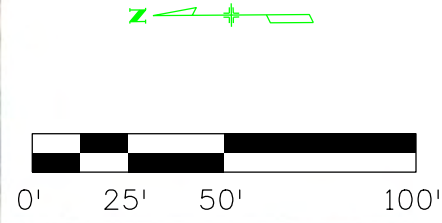
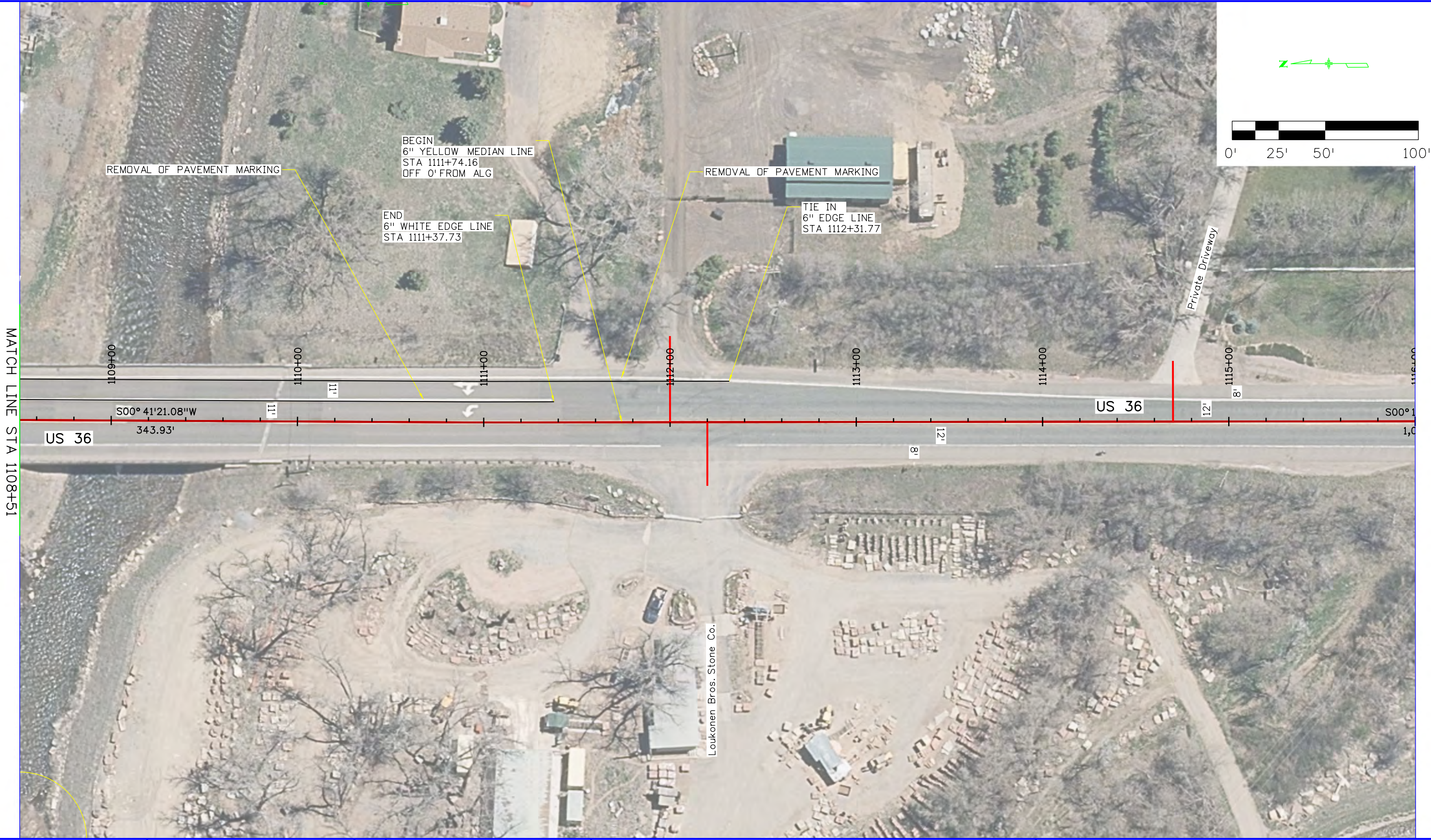
Colorado Department of Transportation

 1050 Lee Hill Dr
 Boulder, CO 80302
 Phone: 303-546-5654
 Fax: 303-444-0751
 Region 4 RDM

As Constructed
No Revisions:
Revised:
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US 36 SIGNING & STRIPING PLAN SHEET	
Designer:	Structure Numbers
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Project No./Code	STA 0361 129
	24063
Sheet Number	

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Colorado Department of Transportation



1050 Lee Hill Dr
Boulder, CO 80302
Phone: 303-546-5654
Fax: 303-444-0751

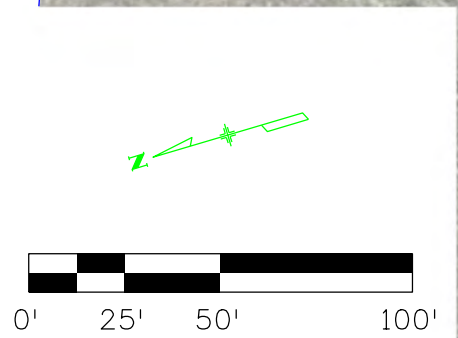
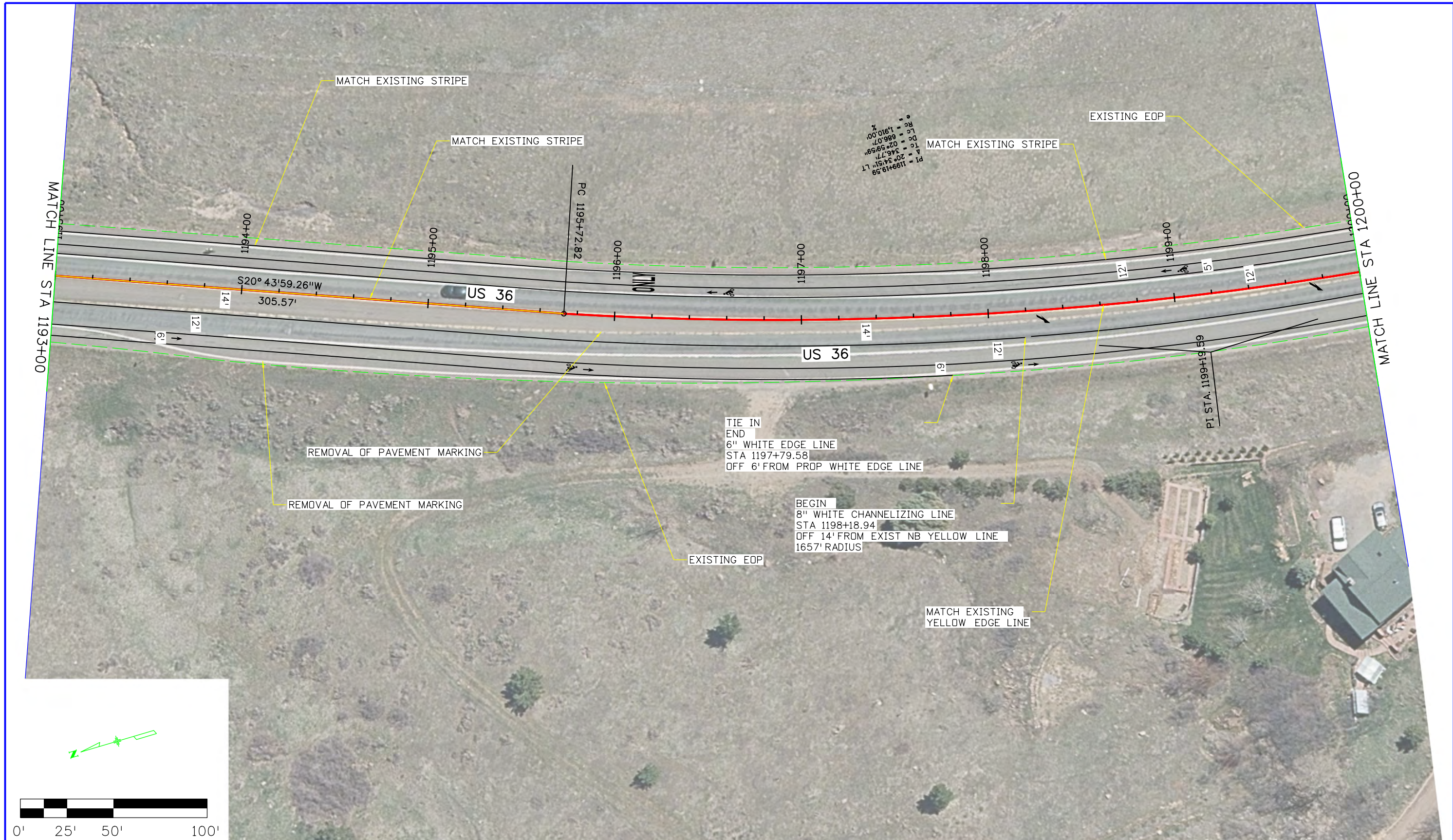
Region 4 RDM

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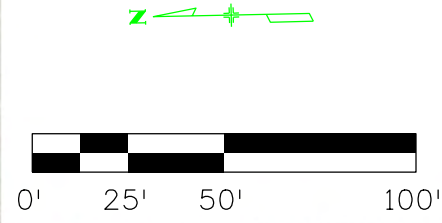
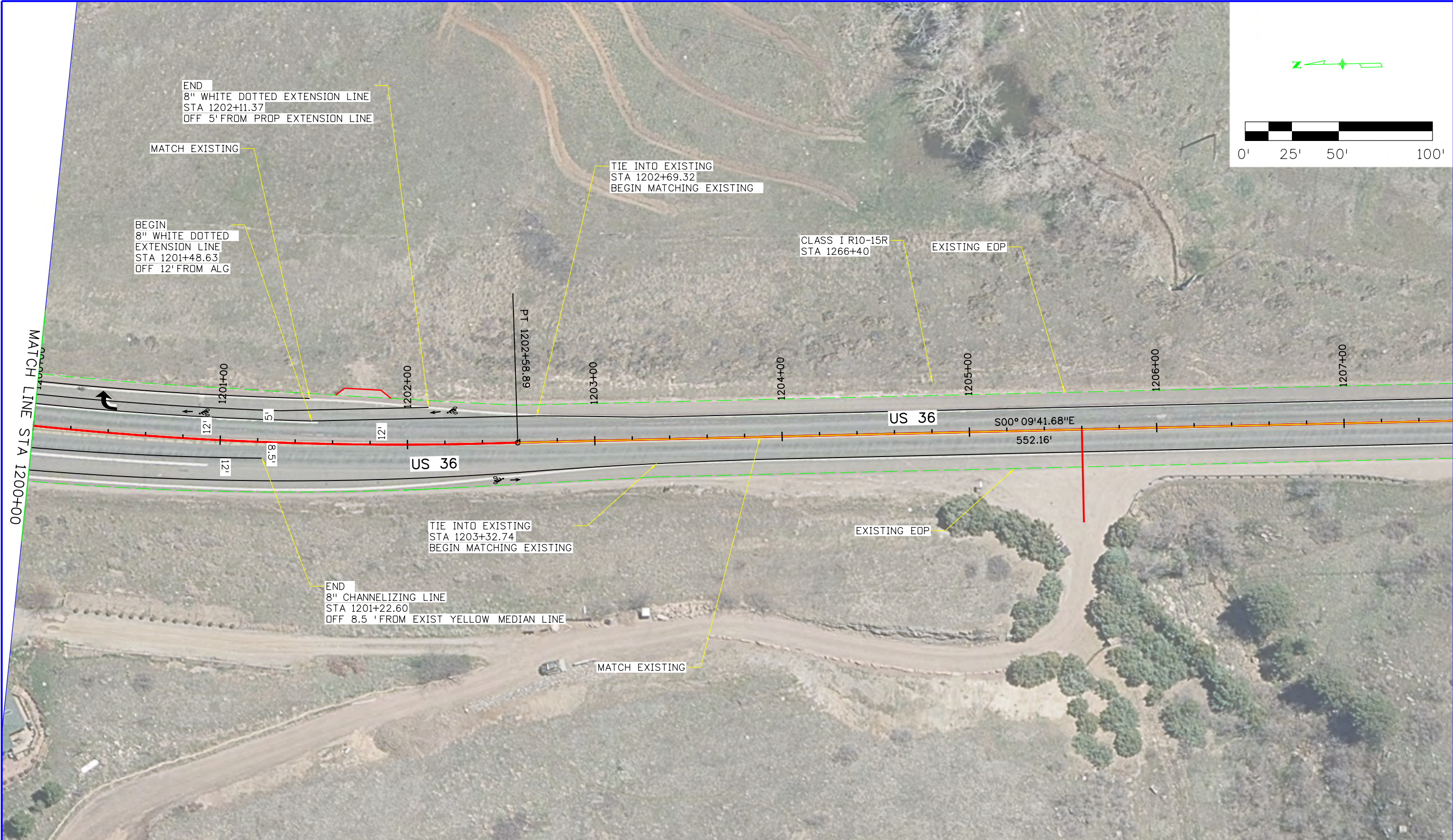
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All seals for this set of drawings are applied to the cover page(s)	Print Date: 08/10/2022	Sheet Revisions			Colorado Department of Transportation			As Constructed		US 36 SIGNING & STRIPING PLAN SHEET			Project No./Code		
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Date:	Comments	Init.

Colorado Department of Transportation

1050 Lee Hill Dr
Boulder, CO 80302
Phone: 303-546-5654
Fax: 303-444-0751

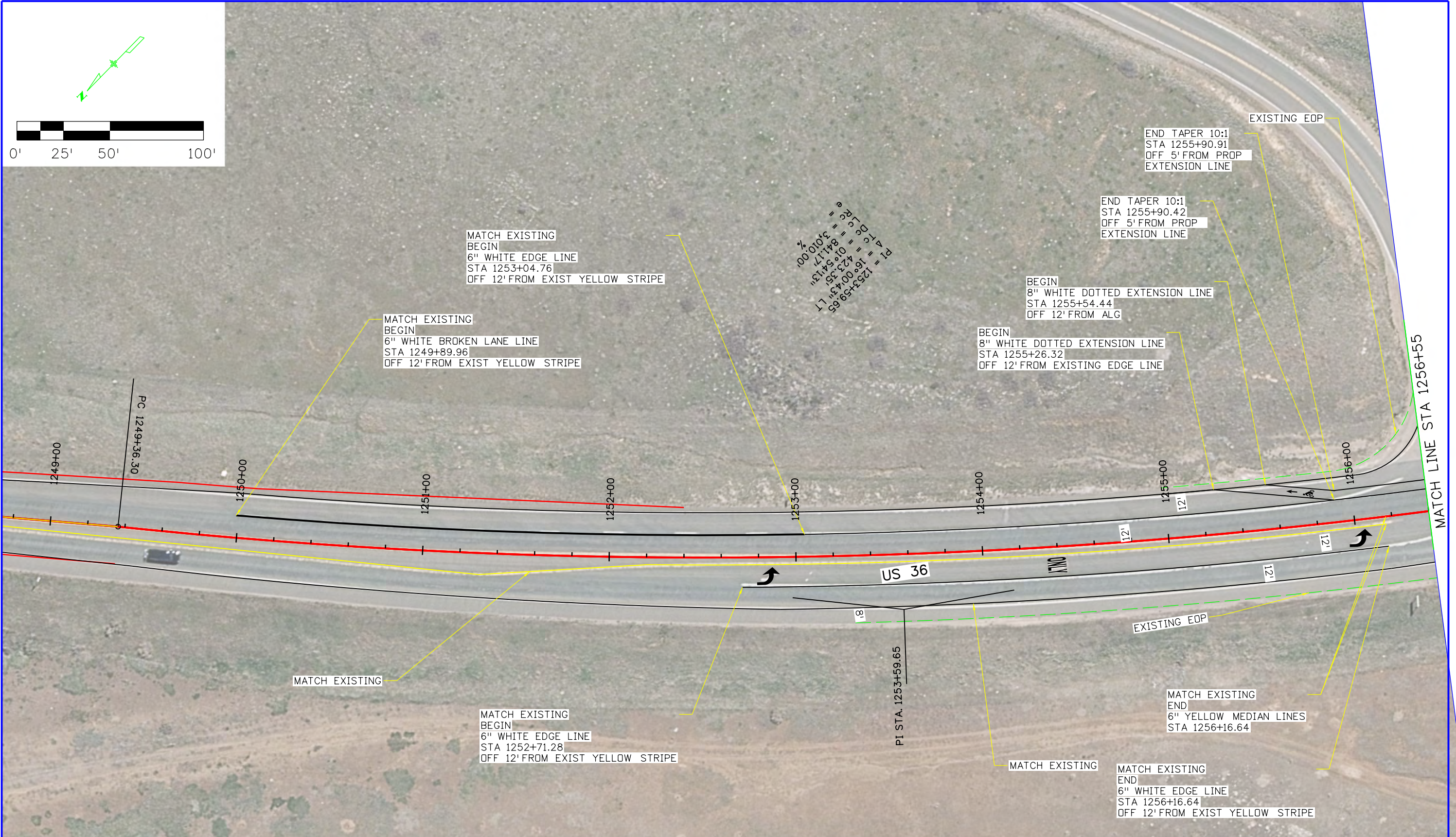
Region 4 **RDM**

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Project No./Code	
	STA 0361 129
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Sheet Number	

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Date:	Comments	Init.

Colorado Department of Transportation

1050 Lee Hill Dr
Boulder, CO 80302
Phone: 303-546-5654
Fax: 303-444-0751

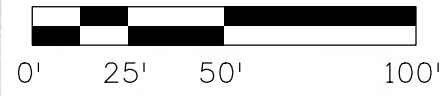
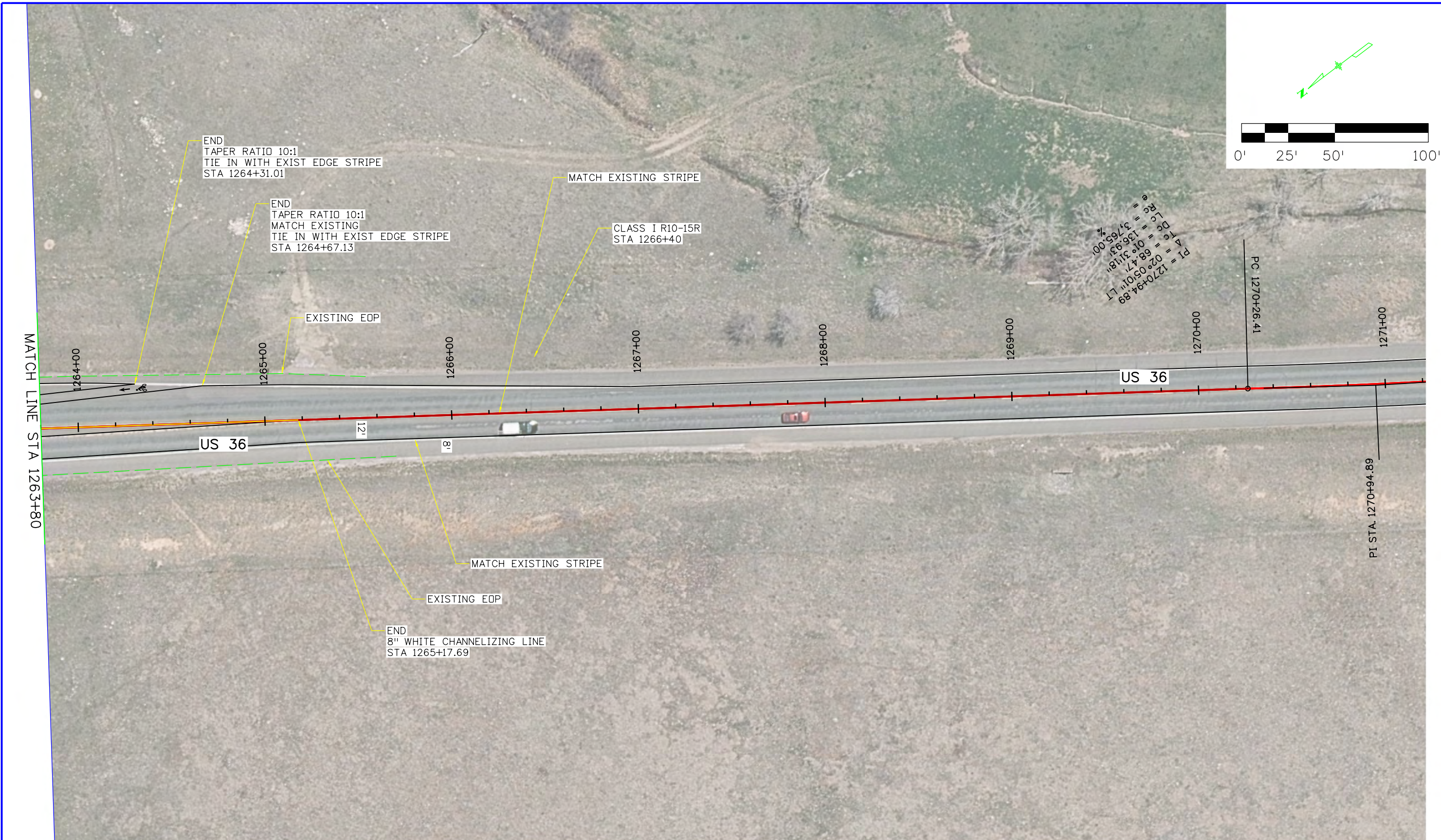
Region 4 **RDM**

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Project No./Code	STA 0361 129
	24063
Sheet Number	

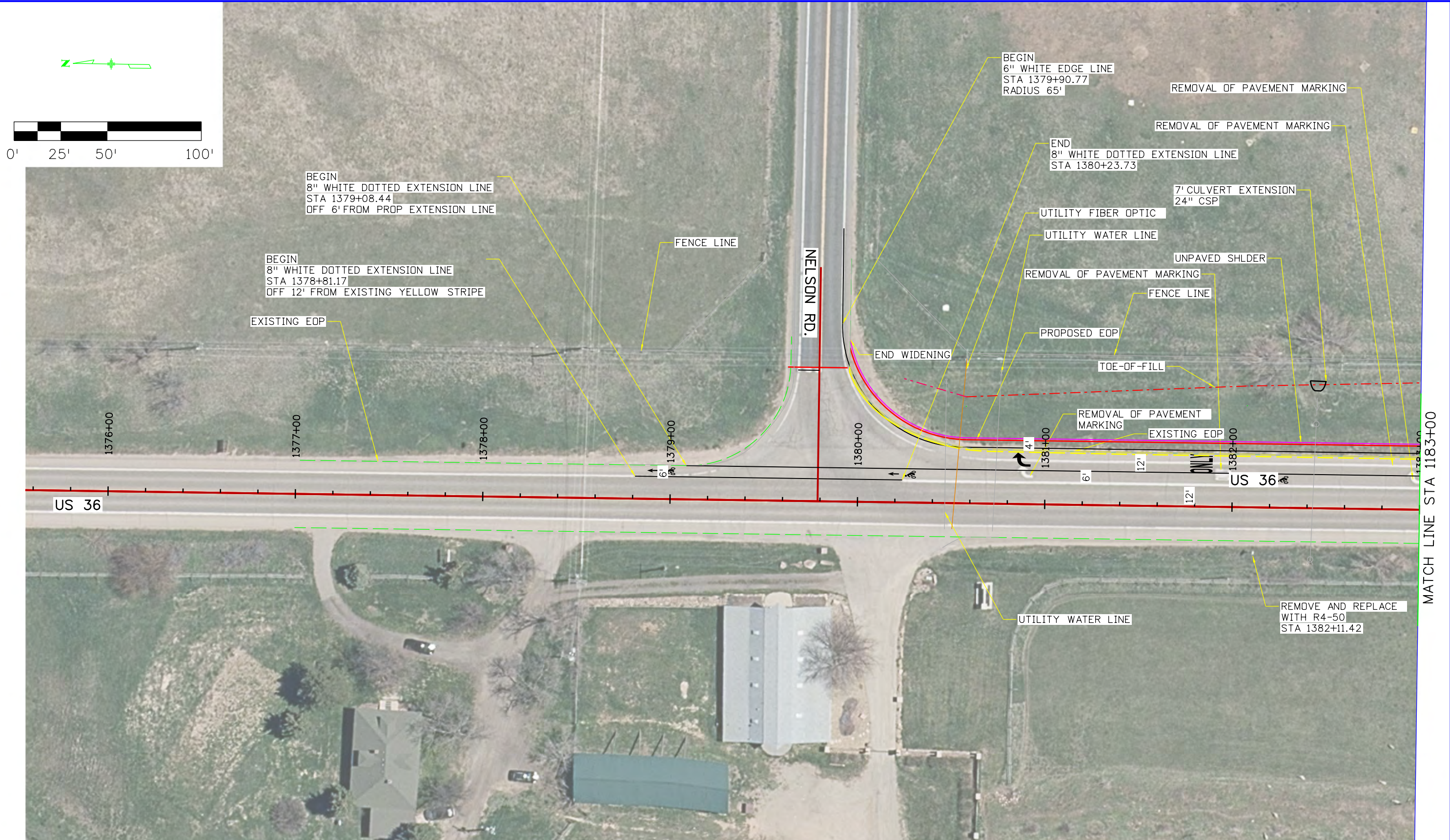
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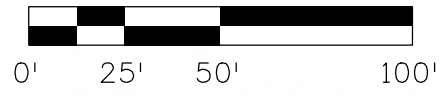
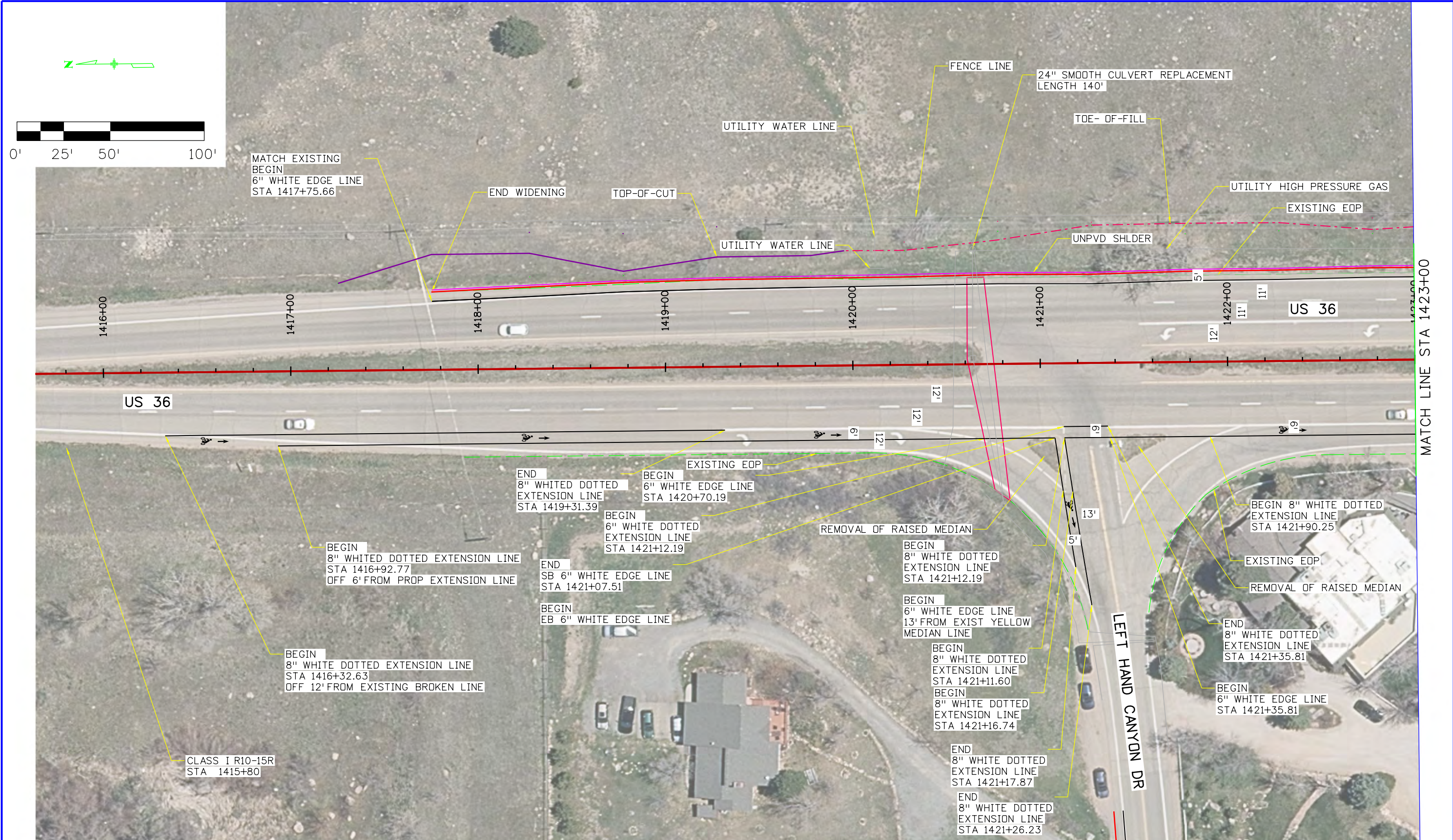
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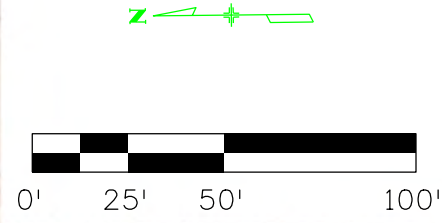
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Unit Information	Region 4			RDM		Revised:		Detailer:			24063															
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andersonj: 8:00:33 AM p:\cadd\pw\dot-pw\dot-pw\Documents\02_Minor Projects\CDDT_Internal Projects\24063 - us 36 intersection striping widening\01_Pre-Construction\Drawings\Roadway\24063_RD_FR_Signing_Striping_Plan01.dgn



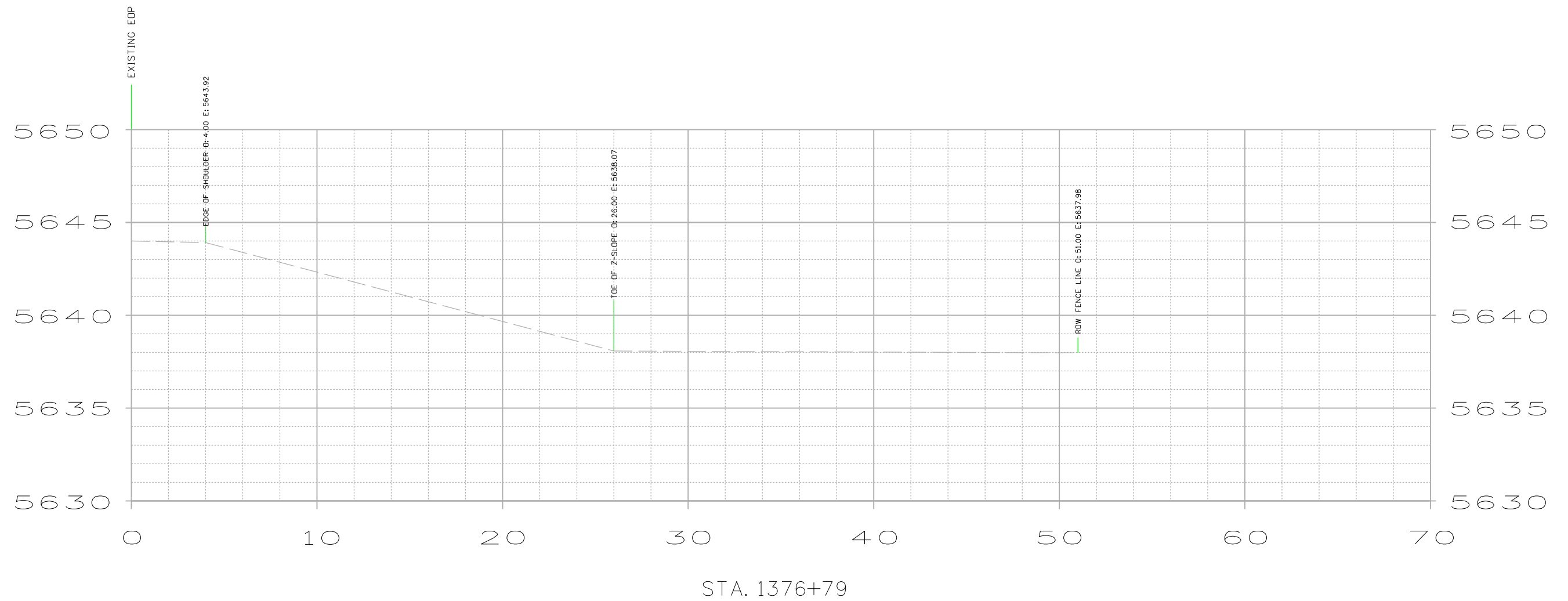
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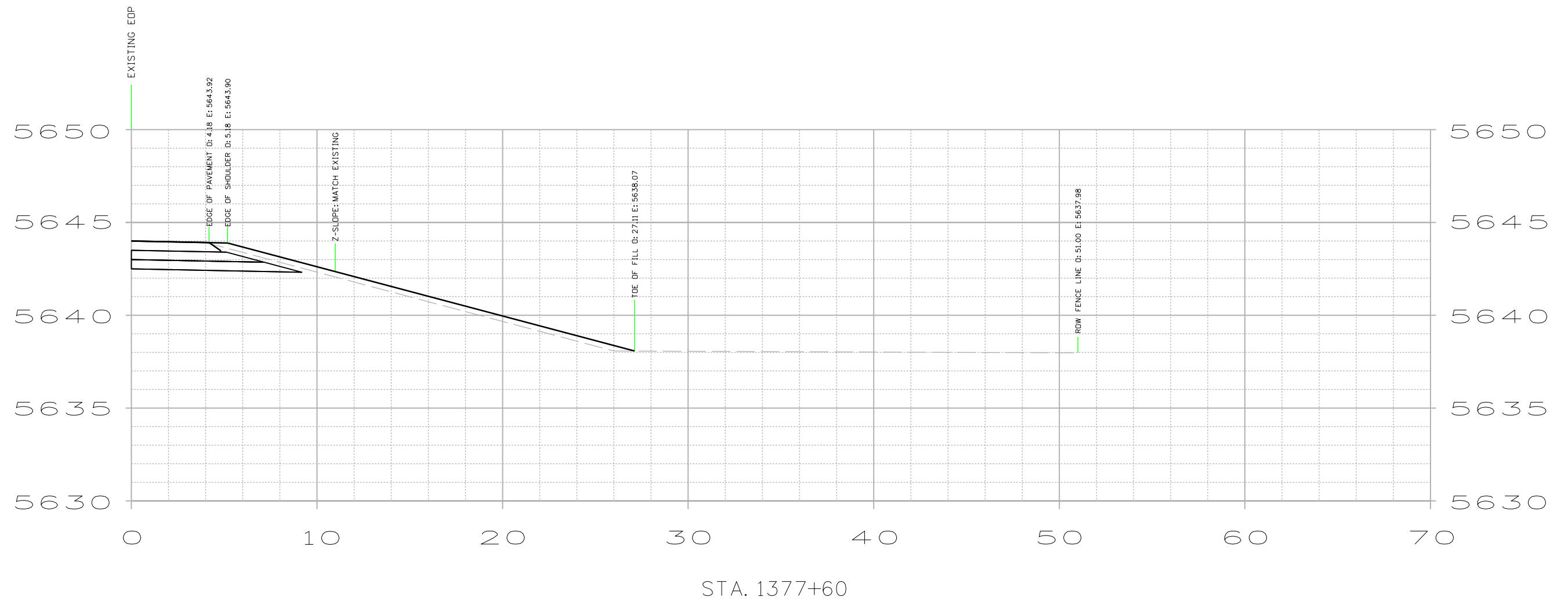


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 CUT VOLUME = 47.07 C.Y.

FILL AREA = 4.08 S.F.
 FILL VOLUME = 12.24 C.Y.


All seals for this set of drawings are applied to the cover page(s)	Print Date: 8/11/2022	Sheet Revisions			 Colorado Department of Transportation 1050 Lee Hill Dr Boulder, CO 80302 Phone: 303-546-5654 Fax: 303-444-0751 Region 4	As Constructed		NELSON RD. CROSS SECTIONS		Project No./Code
	File Name: 24063_RD_2Dlayout_Signing_Striping.dgn	Date:	Comments	Init.		No Revisions:			STA 0361 129	
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CUT AREA = 15.69 S.F.
 CUT VOLUME = 80.00 C.Y.

FILL AREA = 4.08 S.F.
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All seals for this set of drawings are applied to the cover page(s)	Print Date: 8/11/2022	Sheet Revisions			 Colorado Department of Transportation 1050 Lee Hill Dr Boulder, CO 80302 Phone: 303-546-5654 Fax: 303-444-0751 Region 4	As Constructed		NELSON RD. CROSS SECTIONS		Project No./Code
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STA. 1379+10

CUT AREA = 9.87 S.F.
 CUT VOLUME = 54.75 C.Y.

FILL AREA = 29.71 S.F.
 FILL VOLUME = 158.19 C.Y.

All seals for this set of drawings are applied to the cover page(s)	Print Date: 8/11/2022 File Name: 24063_RD_2DLayout_Signing_Striping.dgn	Sheet Revisions			 Colorado Department of Transportation 1050 Lee Hill Dr Boulder, CO 80302 Phone: 303-546-5654 Fax: 303-444-0751 Region 4	As Constructed		NELSON RD. CROSS SECTIONS			Project No./Code STA 0361 129									
	Horiz. Scale: Vert. Scale: As Noted	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">Date:</th> <th style="width: 60%;">Comments</th> <th style="width: 10%;">Init.</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	Date:	Comments		Init.										No Revisions:	Designer:		Structure Numbers	24063
	Date:	Comments	Init.																	
Unit Information	Revised:	Detailer:		Sheet Subset:	Subset Sheets:	Sheet Number														
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STA. 1380+60

CUT AREA = 9.84 S.F.
CUT VOLUME = 78.19 C.Y.

FILL AREA = 27.24 S.F.
FILL VOLUME = 85.39 C.Y.

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STA. 1382+10

CUT AREA = 18.31 S.F.
 CUT VOLUME = 50.86 C.Y.

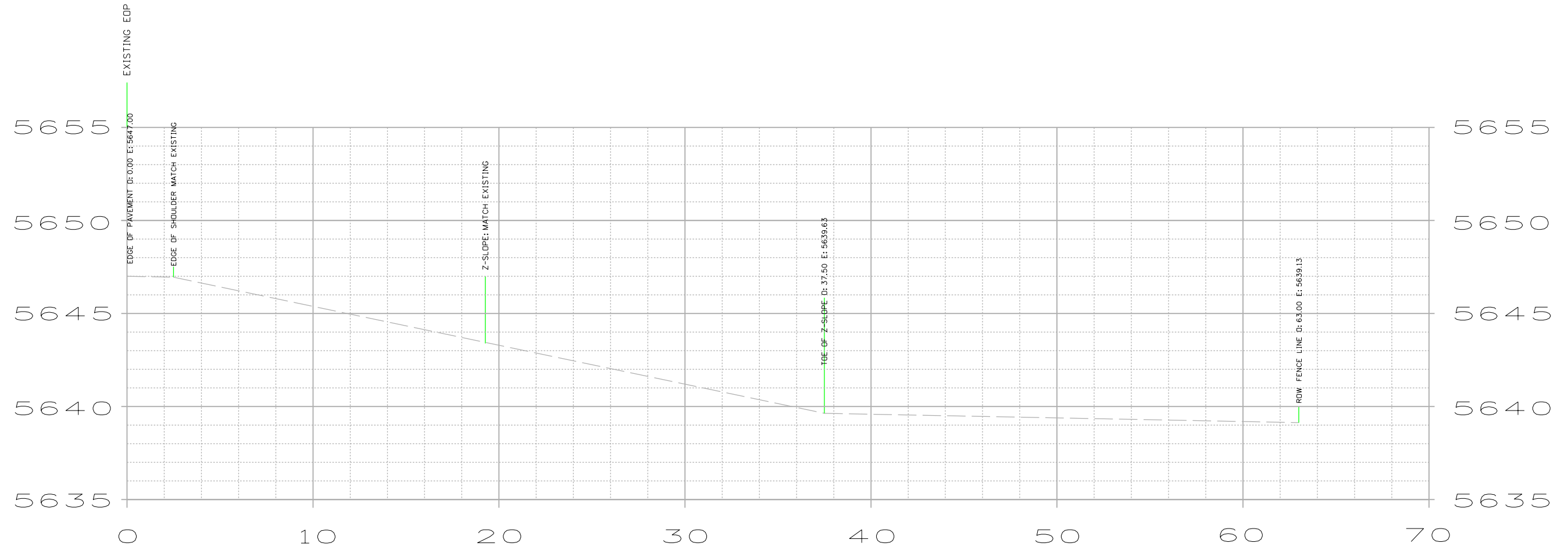
FILL AREA = 3.50 S.F.
 FILL VOLUME = 9.72 C.Y.

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Region 4

RDM

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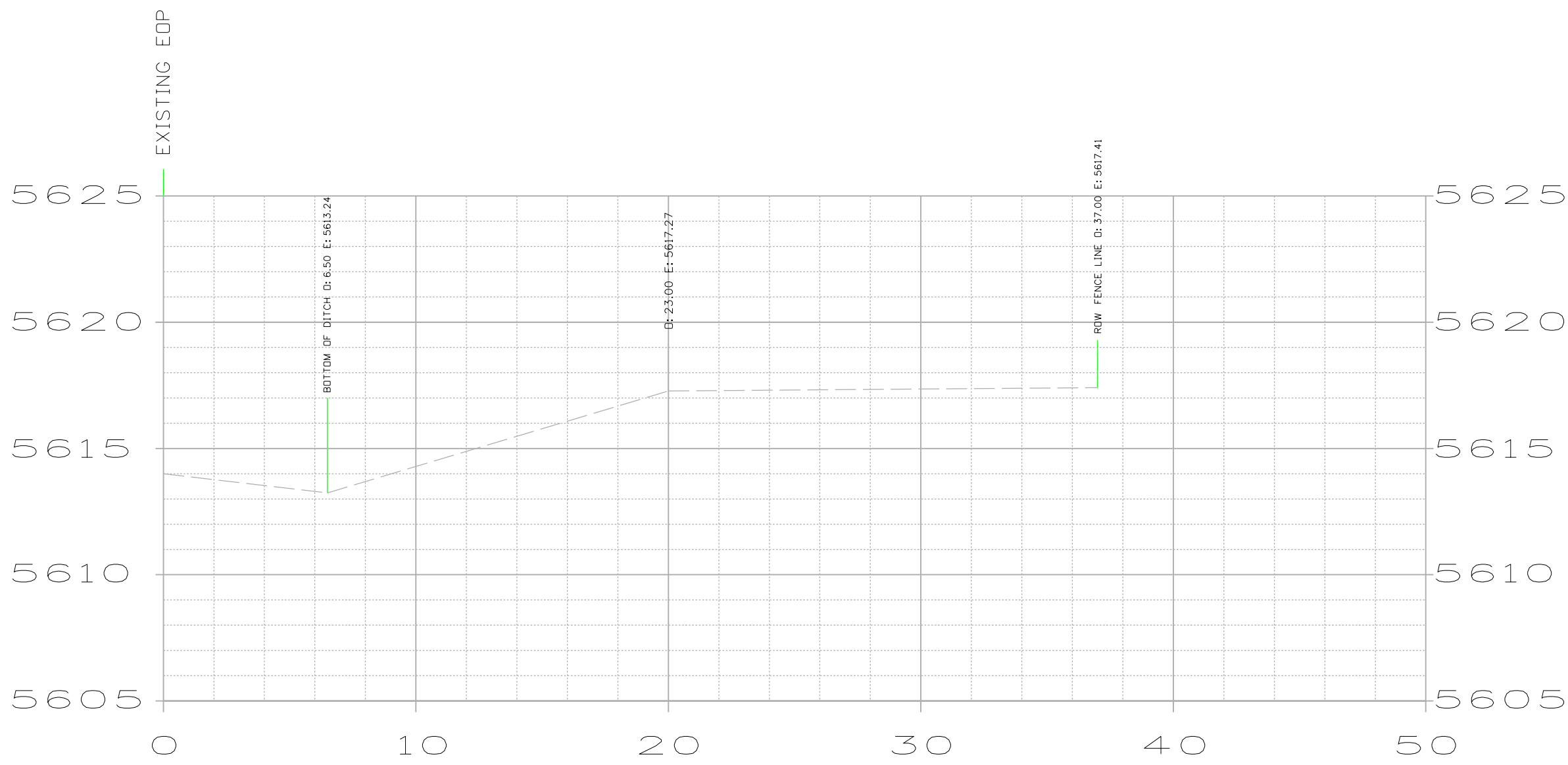
STA. 1383+60

CUT AREA = 0.00 S.F.
 CUT VOLUME = 00.00 C.Y.

FILL AREA = 0.00 S.F.
 FILL VOLUME = 00.00 C.Y.

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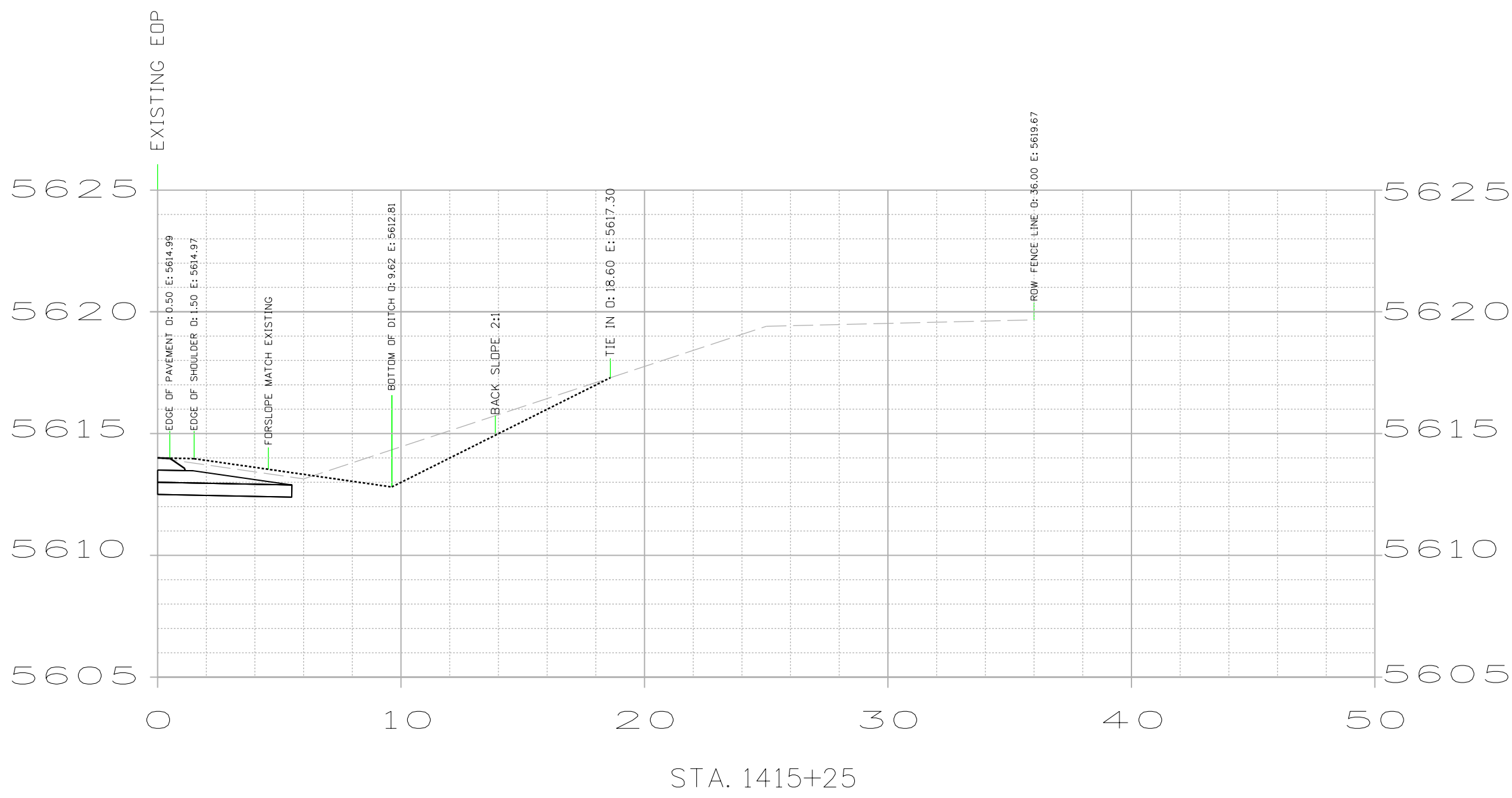
STA. 1414+75

CUT AREA = 00.00 S.F.
 CUT VOLUME = 23.43 C.Y.

FILL AREA = 00.00 S.F.
 FILL VOLUME = 3.01 C.Y.

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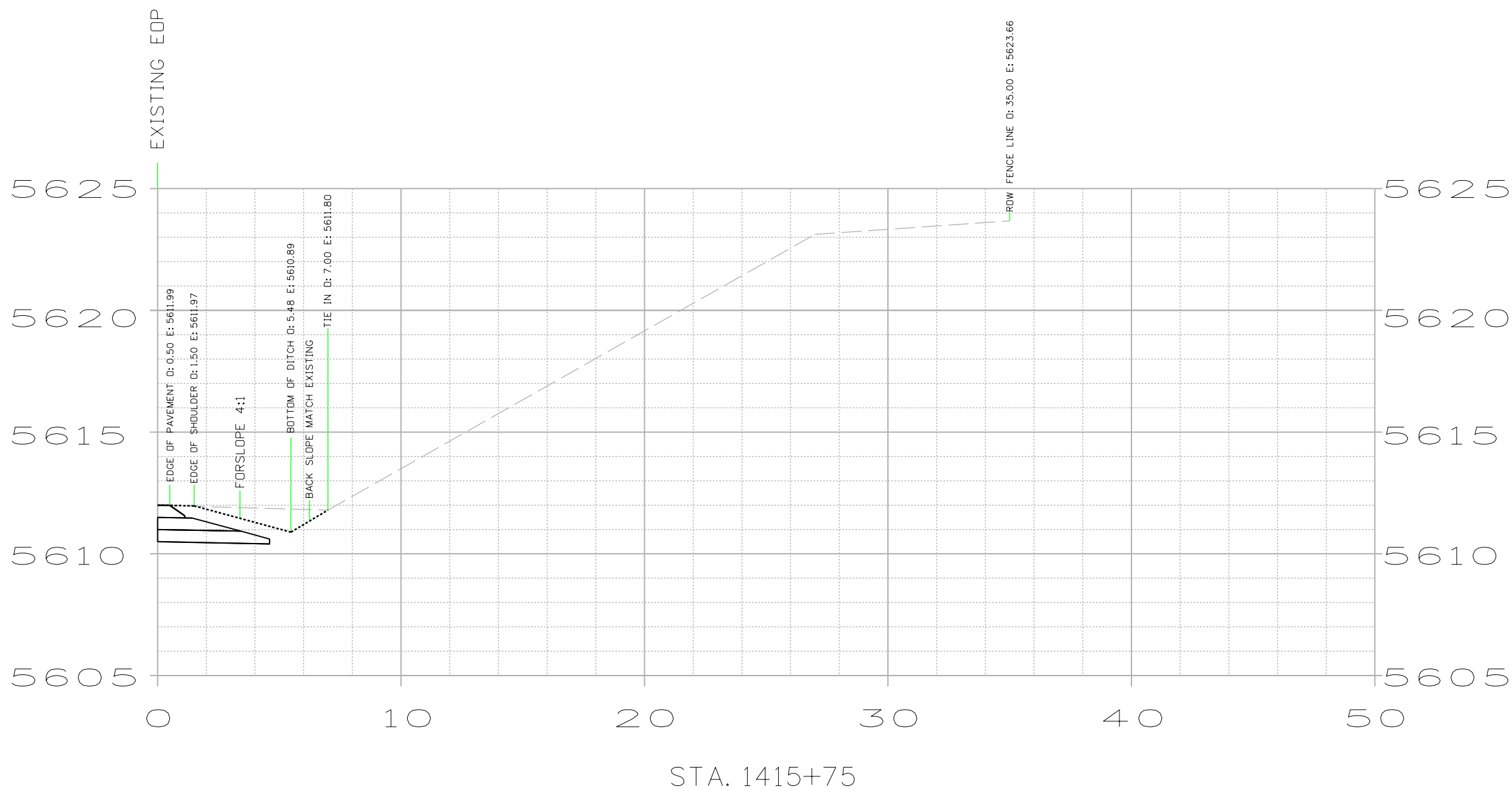


CUT AREA = 25.30 S.F.
 CUT VOLUME = 33.87 C.Y.

FILL AREA = 3.25 S.F.
 FILL VOLUME = 5.53 C.Y.

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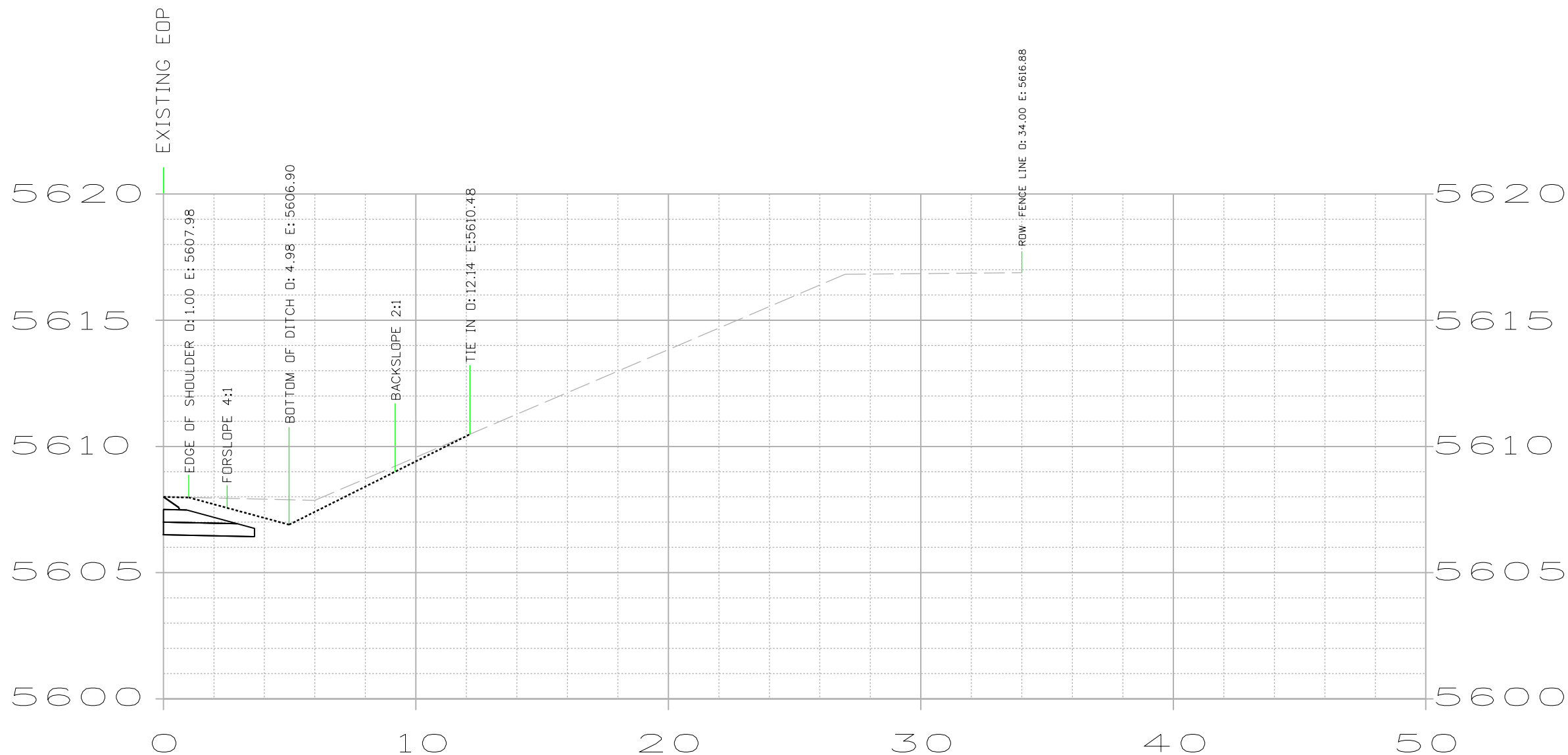


CUT AREA = 11.28 S.F.
 CUT VOLUME = 24.45 C.Y.

FILL AREA = 2.72 S.F.
 FILL VOLUME = 4.60 C.Y.

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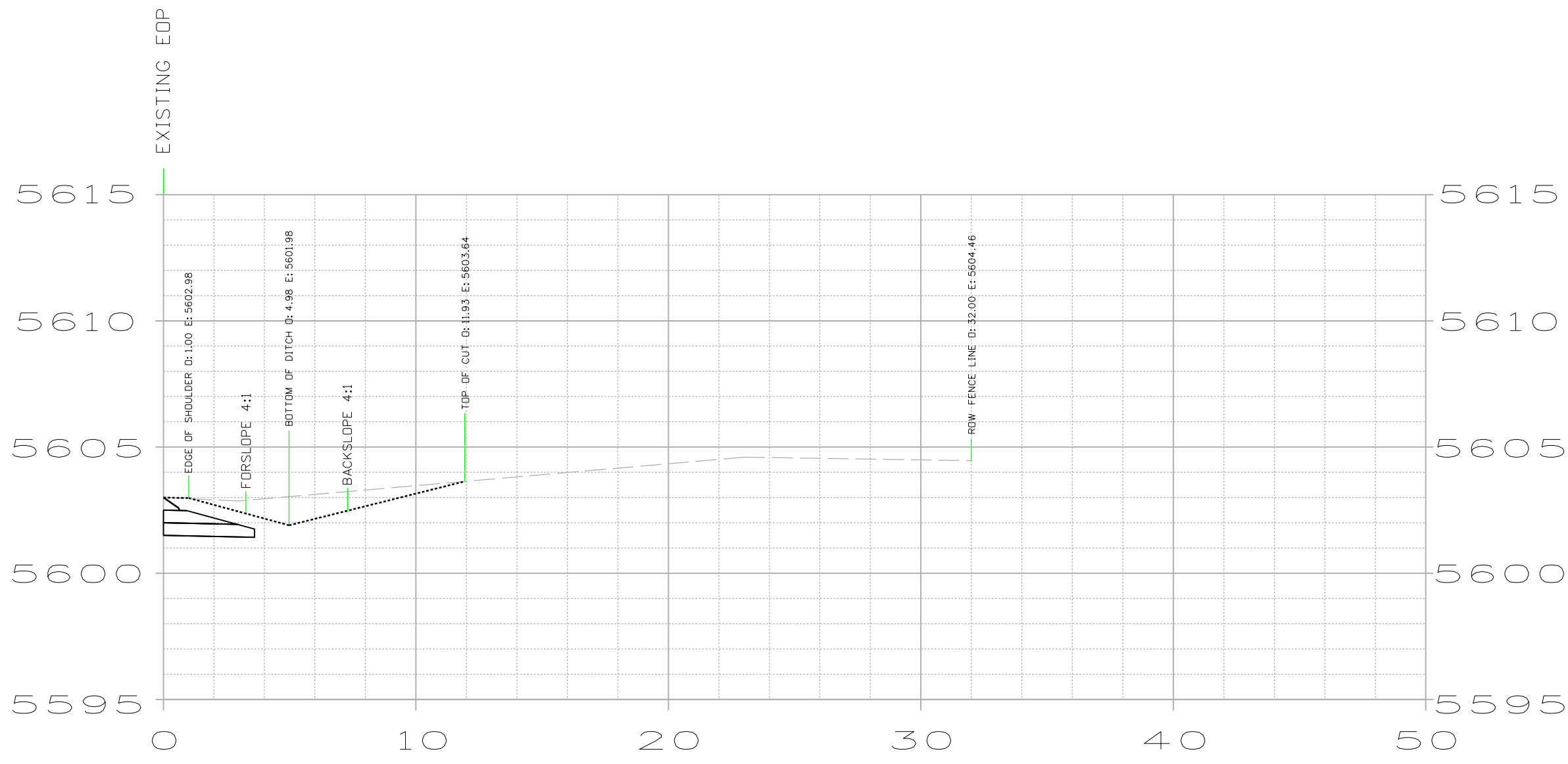
STA. 1416+25

CUT AREA = 15.13 S.F.
 CUT VOLUME = 29.26 C.Y.

FILL AREA = 2.25 S.F.
 FILL VOLUME = 4.17 C.Y.

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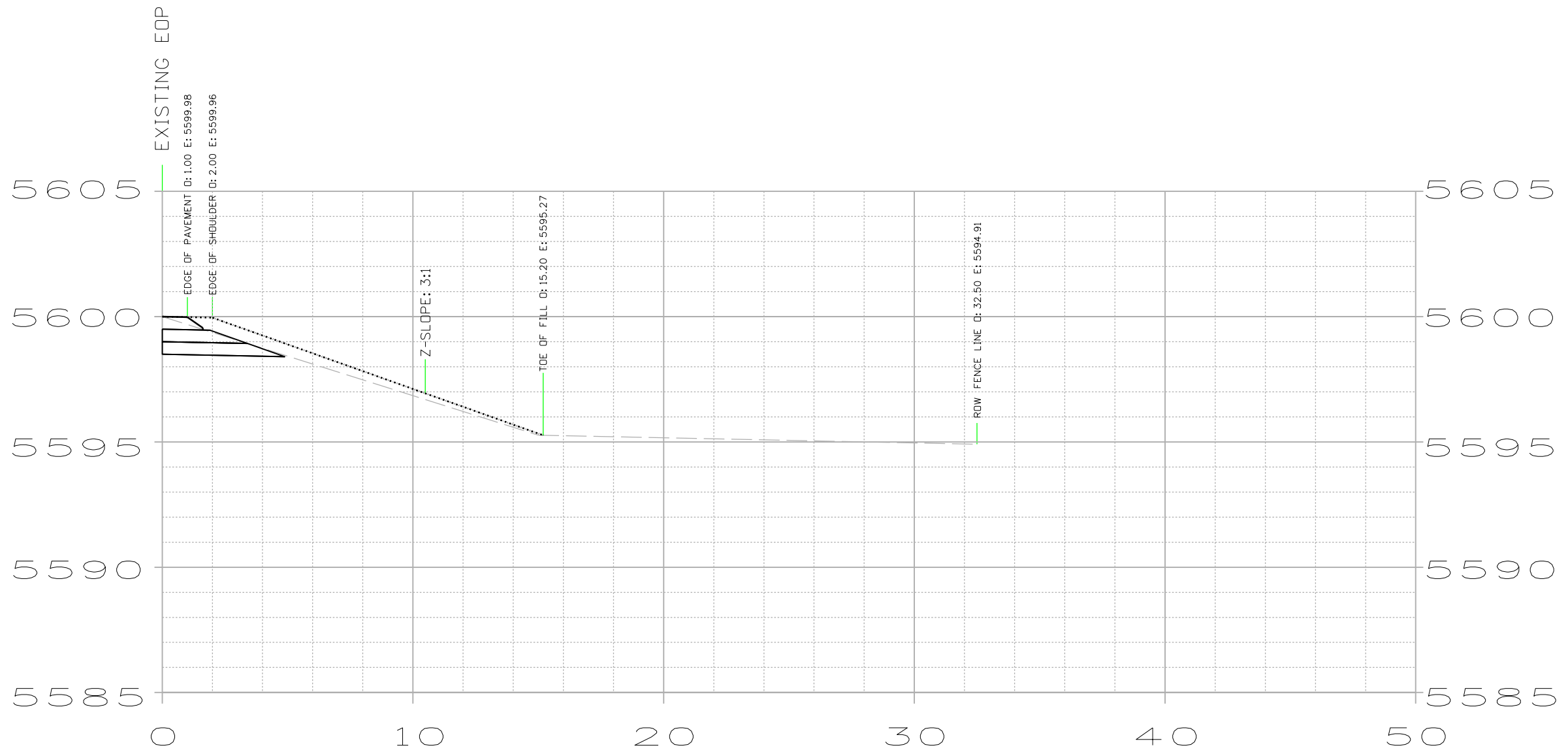
STA. 1416+75

CUT AREA = 16.47 S.F.
 CUT VOLUME = 22.31 C.Y.

FILL AREA = 2.25 S.F.
 FILL VOLUME = 4.46 C.Y.

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STA. 1417+25

CUT AREA = 7.62 S.F.
 CUT VOLUME = 15.05 C.Y.

FILL AREA = 2.57 S.F.
 FILL VOLUME = 4.99 C.Y.

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STA. 1417+75

CUT AREA = 8.63 S.F.
 CUT VOLUME = 16.57 C.Y.

FILL AREA = 2.82 S.F.
 FILL VOLUME = 4.99 C.Y.

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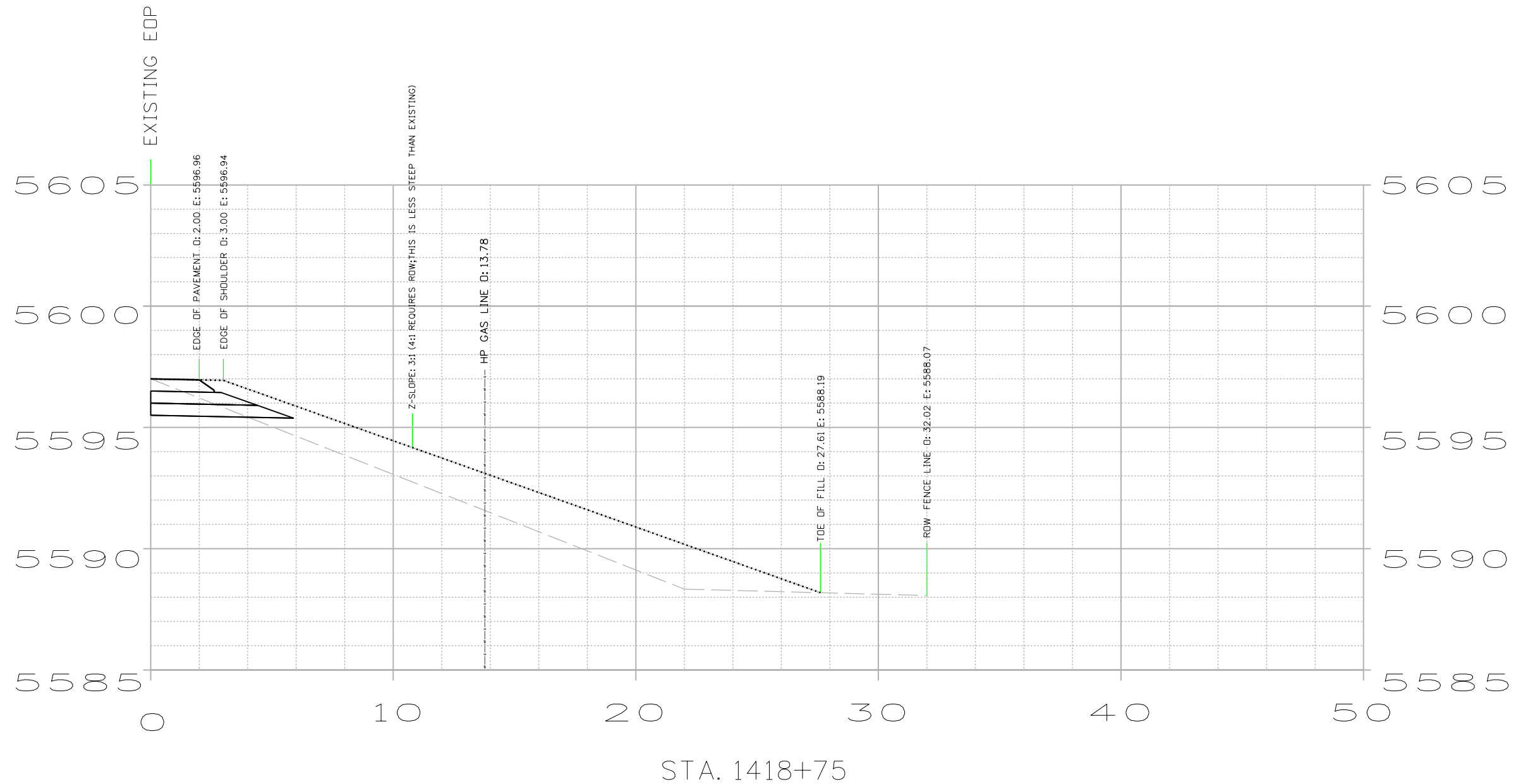
STA. 1418+25

CUT AREA = 9.27 S.F.
 CUT VOLUME = 12.75 C.Y.

FILL AREA = 2.57 S.F.
 FILL VOLUME = 23.33 C.Y.


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CUT AREA = 4.50 S.F.
 CUT VOLUME = 8.46 C.Y.

FILL AREA = 22.63 S.F.
 FILL VOLUME = 38.29 C.Y.

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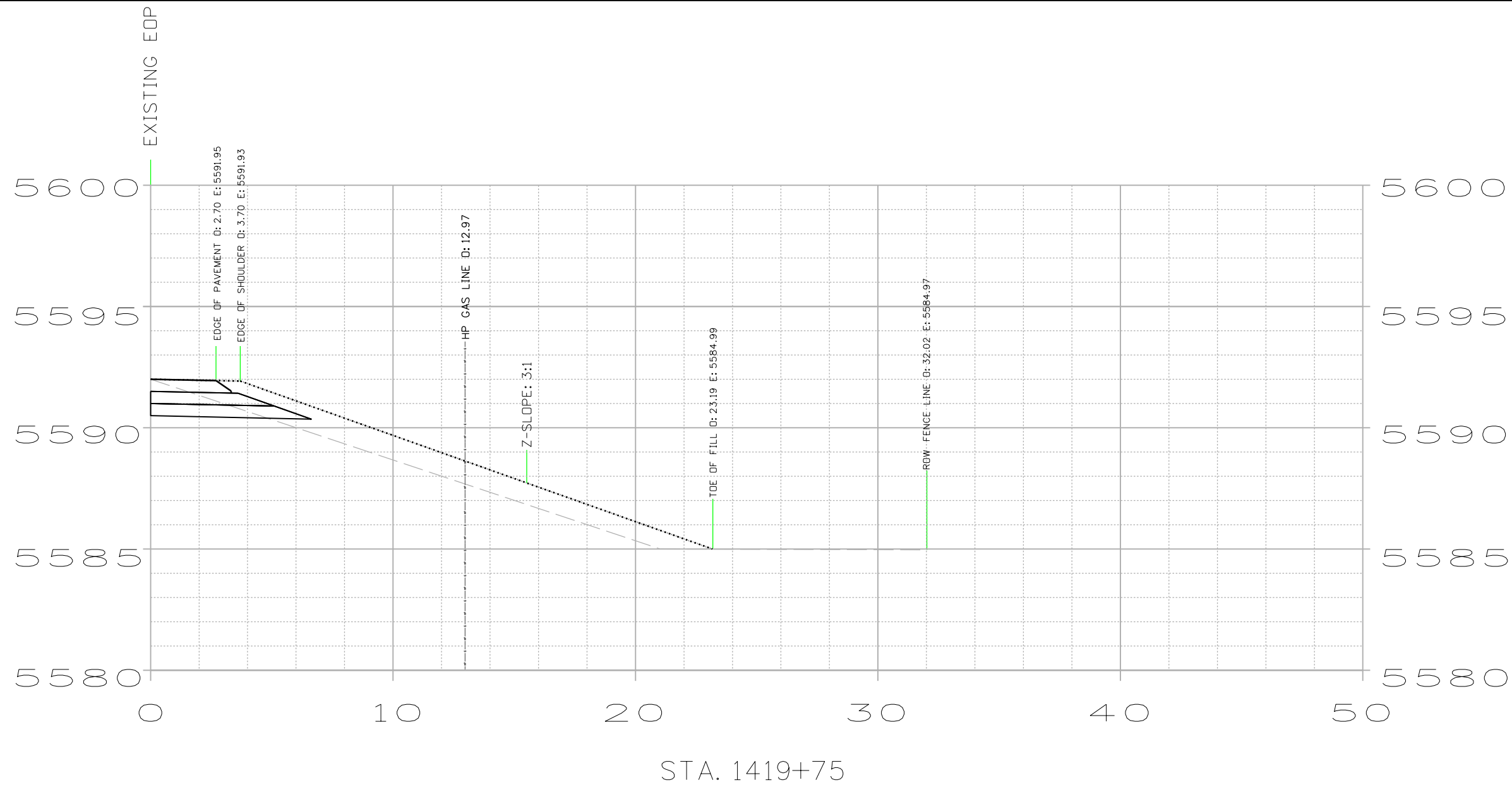
STA. 1419+25

CUT AREA = 4.64 S.F.
 CUT VOLUME = 9.04 C.Y.

FILL AREA = 18.72 S.F.
 FILL VOLUME = 26.39 C.Y.


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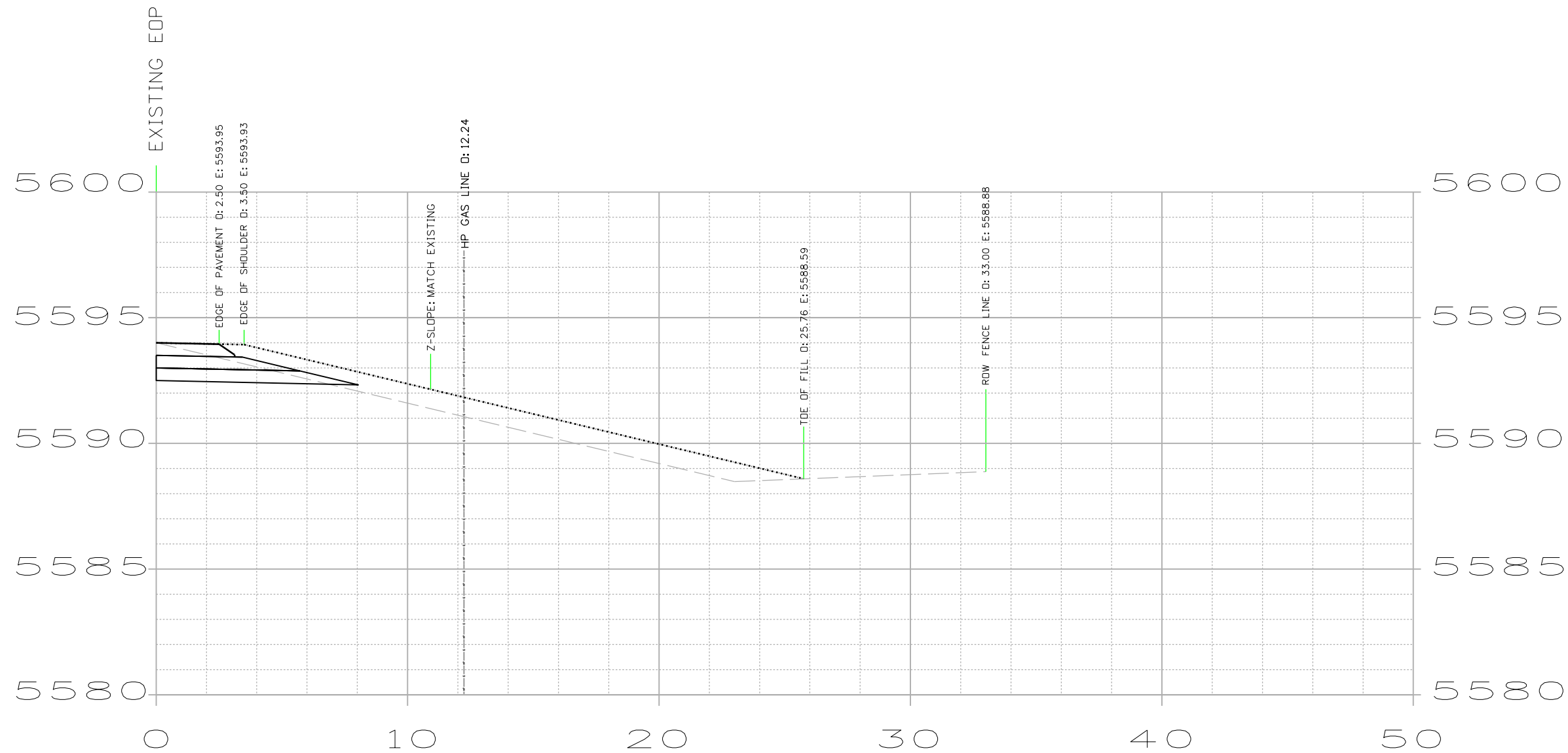


CUT AREA = 5.12 S.F.
 CUT VOLUME = 10.81 C.Y.

FILL AREA = 9.78 S.F.
 FILL VOLUME = 16.52 C.Y.

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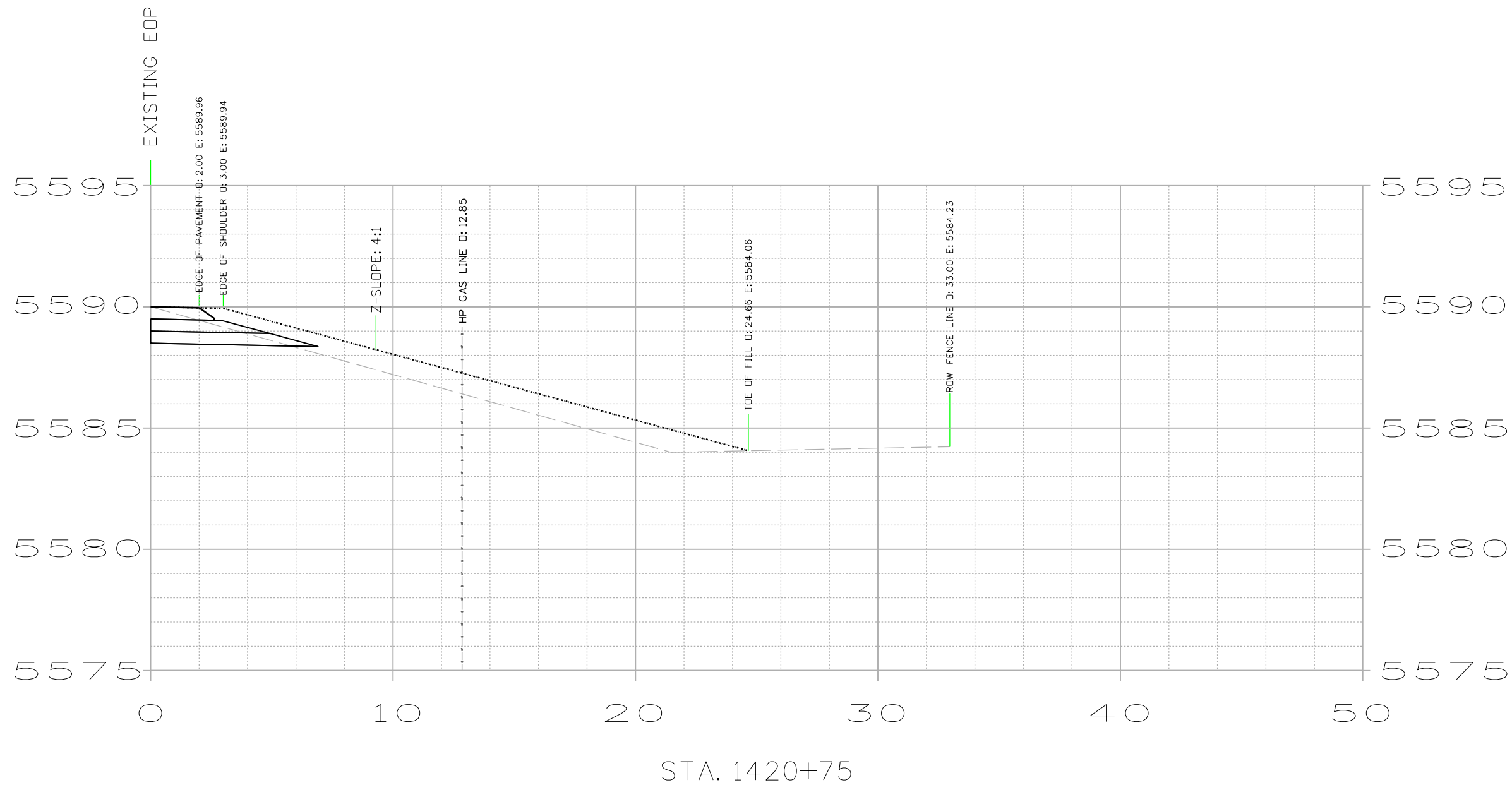
STA. 1420+25

CUT AREA = 6.55 S.F.
CUT VOLUME = 11.46 C.Y.

FILL AREA = 8.06 S.F.
FILL VOLUME = 15.81 C.Y.



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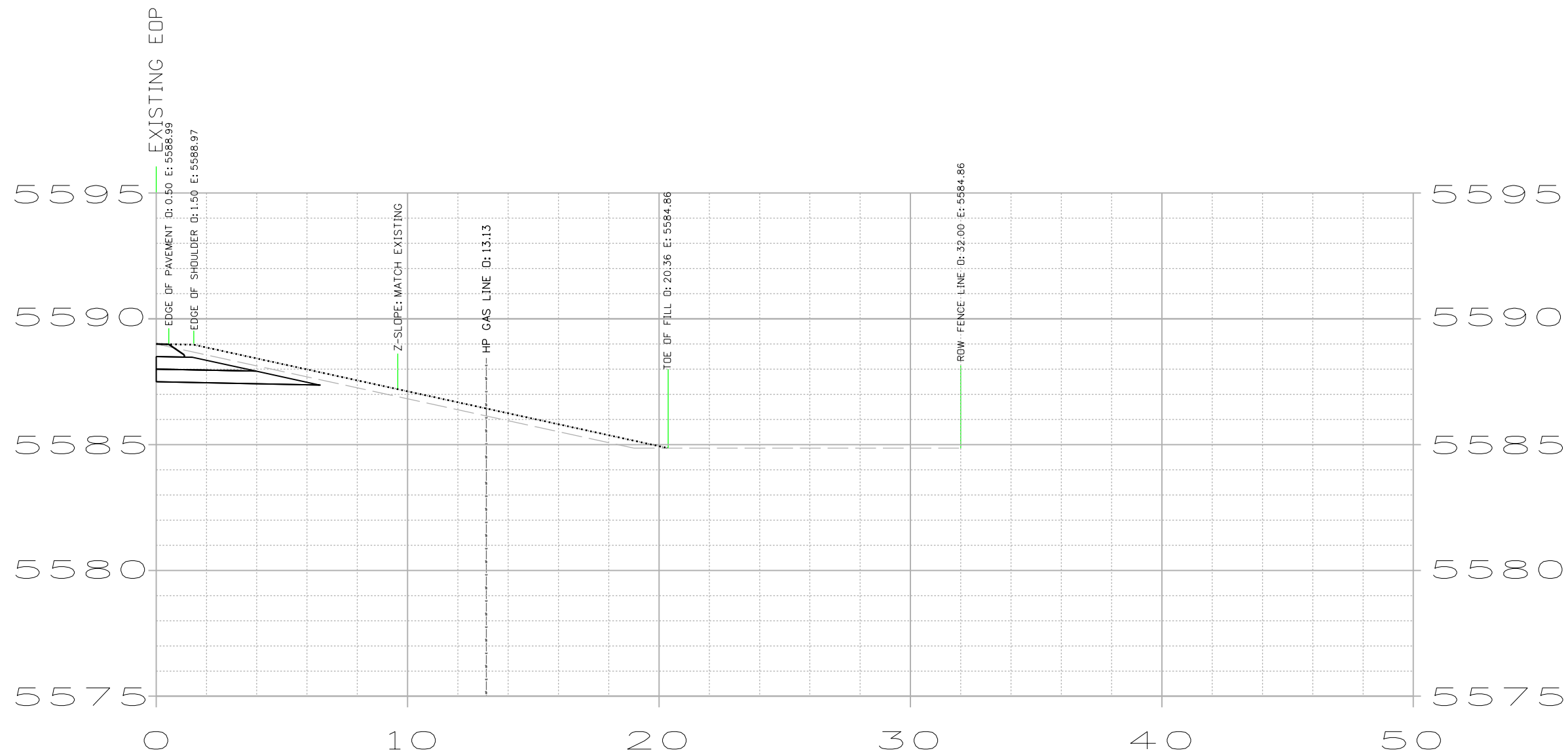


CUT AREA = 5.83 S.F.
 CUT VOLUME = 14.35 C.Y.

FILL AREA = 9.02 S.F.
 FILL VOLUME = 11.24 C.Y.

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	Horiz. Scale: Vert. Scale: As Noted	<table border="1" style="width: 100%;"> <thead> <tr> <th>Date:</th> <th>Comments</th> <th>Init.</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	Date:	Comments	Init.												1050 Lee Hill Dr Boulder, CO 80302 Phone: 303-546-5654 Fax: 303-444-0751		No Revisions:		Designer:		Structure Numbers		STA 0361 129
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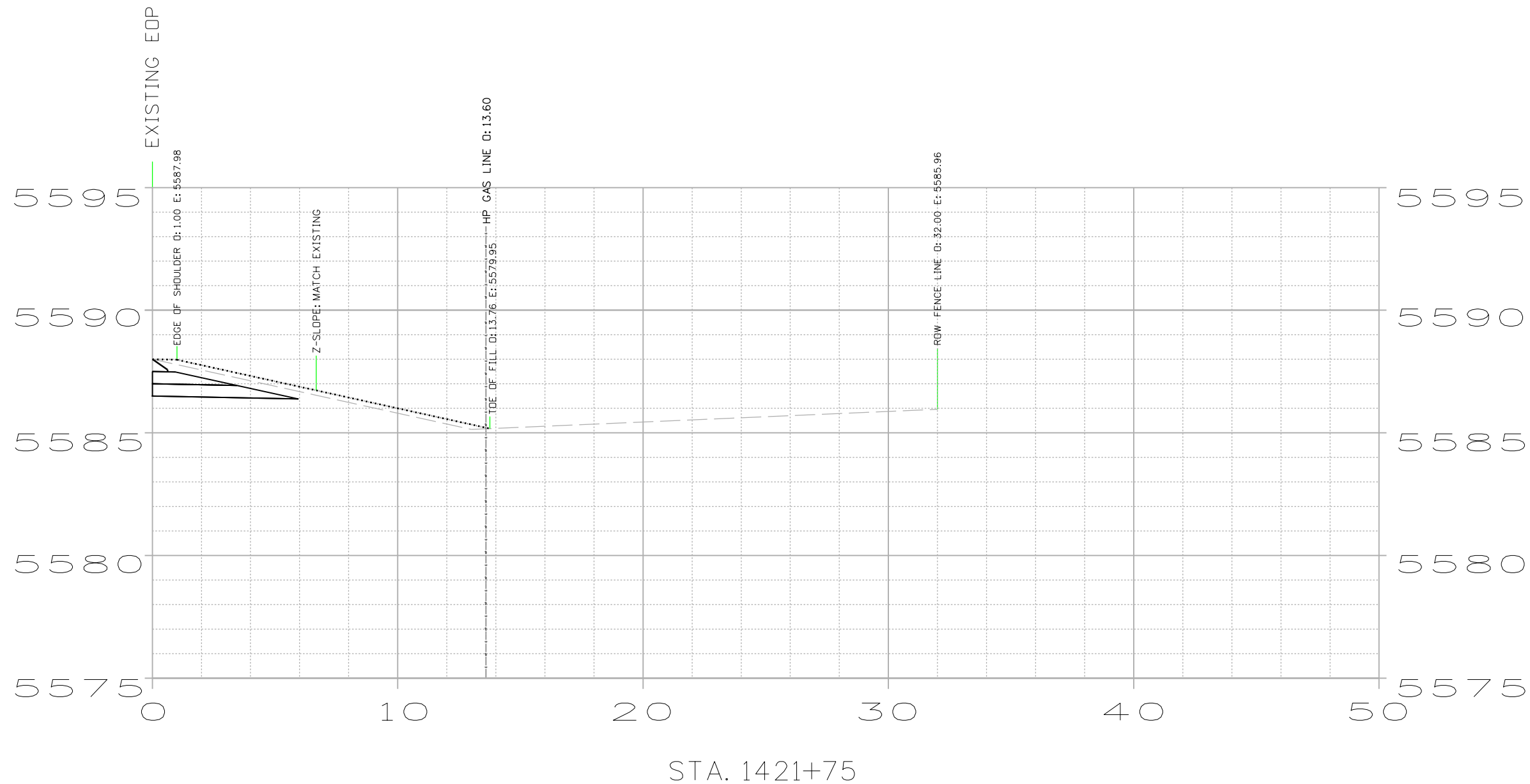
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CUT AREA = 9.67 S.F.
 CUT VOLUME = 17.17 C.Y.

FILL AREA = 3.12 S.F.
 FILL VOLUME = 5.53 C.Y.

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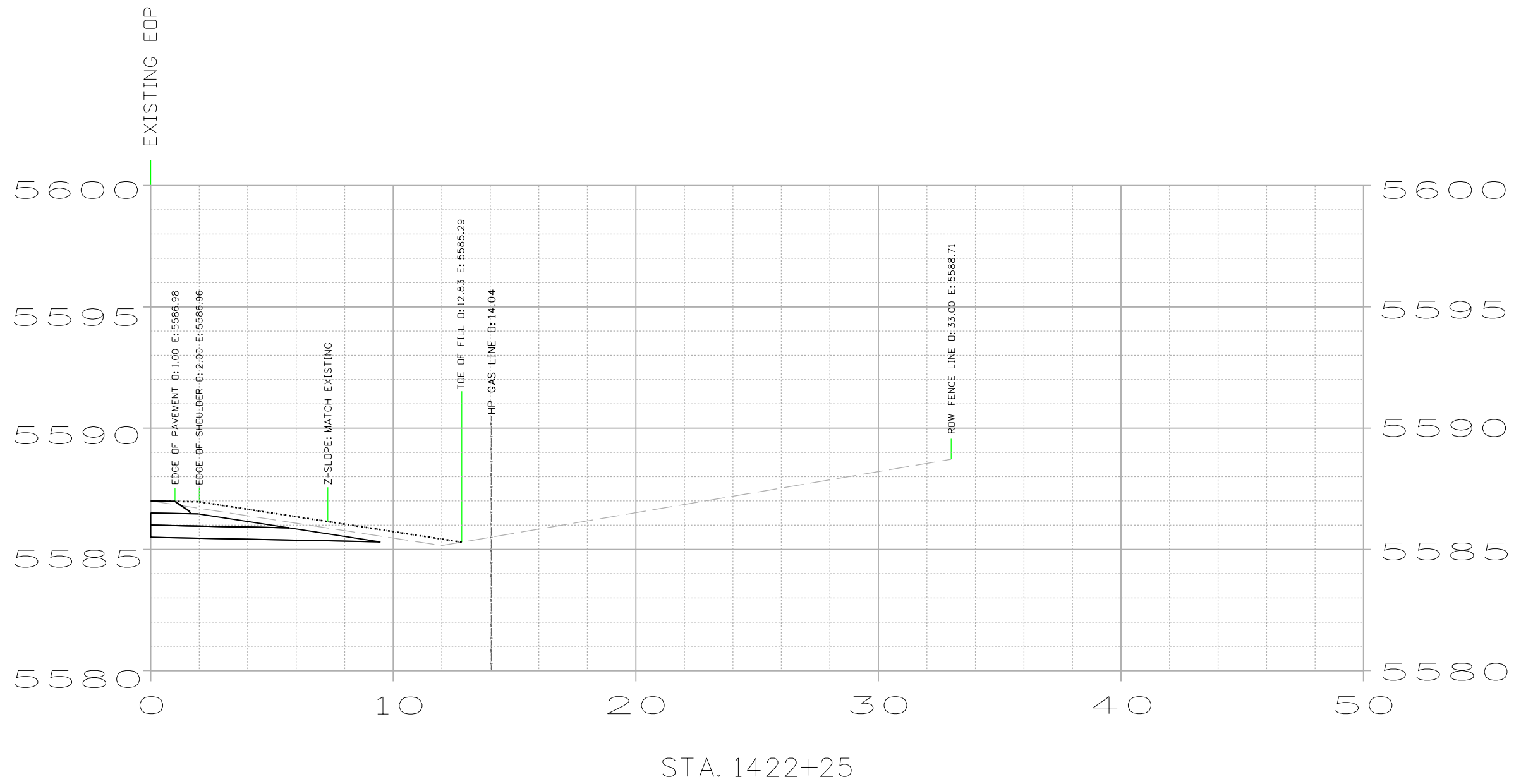


CUT AREA = 8.87 S.F.
 CUT VOLUME = 17.56 C.Y.

FILL AREA = 2.85 S.F.
 FILL VOLUME = 6.61 C.Y.

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CUT AREA = 10.10 S.F.
 CUT VOLUME = 0.00 C.Y.

FILL AREA = 4.29 S.F.
 FILL VOLUME = 0.00 C.Y.

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SWMP TEMPLATE (PLAN SHEETS) FOR PROJECTS WITH LESS THAN 1 ACRE OF DISTURBANCE (2/25/2022)

1. SITE DESCRIPTION

The Contractor shall comply with all CDOT contractual requirements. The SWMP Administrator for Construction shall update to reflect current project site conditions.

A. PROJECT SITE LOCATION:

Project 24063 is located on US 36 (route US36B) from Boulder, Colorado to Lyons, Colorado. This project's limits are M.P. 19.8 to M.P. 28.0.

Location or address of construction office:

B. PROJECT SITE DESCRIPTION:

The project will include resurfacing of existing pavement, updating delineators, and updating guardrail to meet safety standards between M.P. 21.86 and M.P. 25.8. The roadway will also be widened at two sites and signing and striping improvements will be included throughout the project limits.

C. PROPOSED SEQUENCING FOR MAJOR CONSTRUCTION ACTIVITIES:

1) Minor widening areas 2) Mill & Overlay 3) Updating/upgrading guardrail and 4) Signing and Striping improvements

D. ACRES OF DISTURBANCE:

Site 1: Nelson Road	Site 2: Left Hand Canyon Drive
1. Total area of construction site (LOC): 23 acres	1. Total area of construction site (LOC): 23 acres
2. Total area of proposed disturbance (LDA): 0.86 acres	2. Total area of proposed disturbance (LDA): 0.63 acres
3. Total area of seeding: 0.86 acres	3. Total area of seeding: 0.67 acres

E. EXISTING SOIL DATA:

[Provide a summary of any existing soil data that describes the soil types, their erodibility and potential for soil erosion. Include the 12 soil texture(s) from the USDA soil texture classification. Information can be found using the USDA Web Soil Survey] <https://websoilsurvey.sc.egov.usda.gov/App/HomePage.html>
Data Source(s): [XXX]

F. EXISTING VEGETATION, INCLUDING PERCENT OF VEGETATIVE COVER:

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

Pre-Construction Date of survey: _____ Percent Existing Vegetative Cover: _____
Description of existing vegetation: _____
Method for determining percent vegetative cover: _____

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

Post-Construction Date of survey: _____ Percent Vegetative Cover: _____
Description of vegetation: _____
The method used to determine pre-construction percent cover shall be used to determine post construction percent cover.

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

2. STORMWATER MANAGEMENT CONTROLS FOR FIRST CONSTRUCTION ACTIVITIES

THE CONTRACTOR SHALL PERFORM THE FOLLOWING:

A. POTENTIAL POLLUTANT SOURCES

Refer to Potential Pollutant Sources in SWMP Section 4A. Evaluate, identify and describe all potential sources of pollutants at the site in accordance with subsection 107.25 and place any Control Measures required to contain potential pollutants.

B. OFFSITE DRAINAGE (RUN ON WATER):

Place Control Measures to address run-on water in accordance with subsection 208.03.

C. CONSTRUCTION DEWATERING:

Obtain a CDPS Dewatering Permit from CDPHE if conditions of their Low Risk Guidance for Discharges of Uncontaminated Groundwater to Land are not met; see subsections 107.02 and 107.25.

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>

D. VEHICLE TRACKING CONTROL:

Control Measures shall be implemented in accordance with subsection 208.04.

E. PERIMETER CONTROL:

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 may consist of berms, silt fence, erosion logs, existing landforms, or other Control Measures as approved.

3. QUALIFIED STORMWATER MANAGERS:

A. SWMP ADMINISTRATOR FOR DESIGN:

CDOT Certified Individual responsible for developing SWMP Plan Sheets and SWMP Site Maps during the design phase.

Name/Title	Contact Information	Certification #
Keith Wakefield / PE I	970.342.0812 keith.wakefield@state.co.us	270E61E2


B. SWMP ADMINISTRATOR FOR CONSTRUCTION:

(As defined in Section 208) The Contractor shall designate a SWMP Administrator for Construction. 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)	TECS Certification #	Start Date	Engineer Approval

C. 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.

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	File Name: 24063_SWMP_Notes.dgn	Date:	Comments	Init.			Designer: Detailer: Sheet Subset:	Structure Numbers: Subset Sheets:		
	Horiz. Scale: 1"=50' Vert. Scale: As Noted									
	Unit Information									

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

Name/Title	Contact Information
Nick Schipanski / RWPCM	970.350.2127

4. DURING CONSTRUCTION

The SWMP should be considered a "living document" that is continuously reviewed and modified. During construction, the following items shall be added, updated, or amended as needed by the Contractor in accordance with Section 208

- 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. **OTHER CDPS PERMITS:**
List applicable CDPS permits associated with the permitted site and activities.
- C. **STOCKPILE MANAGEMENT:**
shall be done in accordance with subsections 107.25 and 208.07
- D. **CONCRETE WASHOUT:**
Concrete wash out water or waste from field laboratories and paving equipment shall be contained in accordance with subsection 208.05.
- E. **SAW CUTTING:**
shall be done in accordance with subsections 107.25, 208.04, 208.05
- F. **STREET SWEEPING:**
shall be done in accordance with subsection 208.04

5. CONTROL MEASURE MAINTENANCE

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

6. INTERIM AND PERMANENT STABILIZATION

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

- A. **SEEDING PLAN**
The following seed mix(es) and rates are for drill seeding method as shown on the Permanent Stabilization Site Maps shall be used:

COMMON NAME	BOTANICAL NAME	LBS. PLS PER ACRE
TO BE DETERMINED	TO BE DETERMINED	TO BE DETERMINED
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.

Pay Item	Seeding Method (subsection 212.05)	Acre
212-00706	Seeding (Native) Drill	1.60
Total		1.60

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

D. **SPECIAL REQUIREMENTS:**

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.
Permanent stabilization mulching shall be accomplished within 24 hours of hydraulic application of native seed.
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).

1.60 Total Acres of Seeding (Native) Drill with Topsoil Generated From

Seeding (Native) Drill Pay Item 212-00706	Pay Item	Description	Amount/Acre	Units	Total For This Method
	212-00700	Organic Fertilizer Low N	300	Pounds	480
	212-00701	Compost (Mechanically Applied)	65	CY	104
	212-00703	Humate	150	Pounds	240
	212-00704	Mycorrhizae	8	Pounds	12.8

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.

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

Prior to partial acceptance.

All seeded areas shall be reviewed by the SWMP Administrator for Construction and or Engineer 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.

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.

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					RDM	Sheet Subset:				

7. PRIOR TO PROJECT FINAL ACCEPTANCE

- When directed by the Engineer, removal and disposal of temporary control measures shall be included in the cost of work.
- At the end of the project, all ditch checks shall consist of either temporary erosion logs (or equivalent) or permanent riprap.

- All storm drains shall be cleaned prior to the Final Acceptance of the project. If required, include work in 202-04002 Clean Culvert.
- Refer to Specification 208.10 for Items to be completed prior to requesting partial acceptance of water quality work

8. 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 should 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 add 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.			B	X	X
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	
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		B	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		B	X	

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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				
TEMPORARY SLOPE DRAIN	Placed as a conduit or chute to drain runoff down slope and to prevent erosion of slope.	M-208				
OUTLET PROTECTION Riprap, or approved other	Material placed as energy dissipater to prevent erosion at outlet structure.	M-601-12			X	X
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				
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.					
TEMPORARY STREAM CROSSING	Constructed over stream or drainage to prevent discharge of pollutants from construction equipment into water.					
CLEAN WATER DIVERSION	Placed to divert clean surface or ground water around disturbance area to prevent it from mixing with construction runoff.					
OTHER						

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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.

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	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 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	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.					
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.					
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	
SEEDING PERMANENT (NATIVE)	Permanent Stabilization of disturbance and to reduce runoff and control erosion on disturbed areas.					X
SOIL RETENTION BLANKET (SRB)	Permanent Stabilization of disturbance and to reduce runoff and control erosion on disturbed areas.	M-216			X	X
TURF REINFORCEMENT MAT (TRM)	Permanent Stabilization of disturbance and to reduce runoff and control erosion on disturbed areas. Placed in channels or on slopes for erosion control, channel liner and seeding establishment.	M-216				
Sweeping	Source control, used to remove sediment tracked onto paved surfaces and to prevent sediment from entering drainage system. Sweep daily and at the end of the construction shift as needed. Kick brooms shall not be permitted.				X	
OTHER						

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				Region 4				RDM								

8. TABULATION OF STORMWATER QUANTITIES

1. Control Measure sediment removal and disposal shall be paid for as: 208 Removal and Disposal of Sediment (Equipment) and 208 Removal and Disposal of Sediment (Labor). All other control measure maintenance shall be included in the cost of the control measure.

[Designer to delete all that do not apply. Designer to verify SWMP tabulations quantities are included in the Summary of Approximate Quantities]

[The following pay items can be used for interim stabilization as defined in section 208.04(e)(2): 213-00002, 213-00003, 213-00004, 213-00007, 213-00012, 213-00013, 213-00061, 213-00150, 213-00151]

[X in the PSP Spec Column refers to approved Project Special Provisions (PSP) located on the Landscape Architecture website. If used on the project the designer should make sure the PSP is included in all reviews and the final contract]

[R1 in the PSP Spec. Column refers to Region 1 only PSP]

[W in the PSP Spec. Column refers to Project Special Provision Worksheets that are available on this website https://www.codot.gov/business/designsupport/cdot-construction-specifications/2019-construction-specifications/project-special-provision-work-sheets?b_start:int=20]

PSP Spec.	Pay Item	Description	Pay Unit	Initial Const.	Interim Const.	Permanent Stabilization	*Total Quantity
X	202-04002	Clean Culvert	Each				
	207-00700	Topsoil (Onsite)	CY				575
	207-00702	Topsoil (Offsite)	CY				
	208-00002	Erosion Log Type 1 (12 inch)	LF		1480		1480
	208-00075	Pre-fabricated Vehicle Tracking Pad	Each	2			2
	208-00103	Removal and Disposal of Sediment (Labor)	Hour				
	208-00105	Removal and Disposal of Sediment (Equipment)	Hour				
	208-00106	Sweeping (Sediment Removal)	Hour				
	208-00107	Removal of Trash	Hour				
	208-00207	***Erosion Control Management (ECM)	Day				
	212-00700	Organic Fertilizer	Pounds				480
	212-00701	Compost (Mechanically Applied)	CY				104
	212-00703	Humate	Pounds				240
	212-00704	Mycorrhizae	Pounds				12.8
	212-00706	Seeding (Native) Drill	Acre			1.6	1.6
	213-00002	Mulching (Weed Free Hay)	Acre				
	213-00003	Mulching (Weed Free)	Acre				
	213-00004	Mulching (Weed Free Straw)	Acre				
	213-00012	Spray-on Mulch Blanket	Acre				
	213-00013	Spray-on Mulch Blanket	LB				
	213-00061	Mulch Tackifier	LB				

PSP Spec.	Pay Item	Description	Pay Unit	Initial Const.	Interim Const.	Permanent Stabilization	*Total Quantity
	216-00101	Soil Retention Blanket (Straw/Coconut) (Photodegradable Class 1)	SY				
	216-00111	Soil Retention Blanket (Excelsior) (Photodegradable Class 1)	SY				
	216-00122	Soil Retention Blanket (Coconut) (Photodegradable Class 2)	SY				
	216-00201	Soil Retention Blanket (Straw/Coconut) (Biodegradable Class 1)	SY				
	216-00211	Soil Retention Blanket (Excelsior) (Biodegradable Class 1)	SY				
	216-00222	Soil Retention Blanket (Coconut) (Biodegradable Class 2)	SY				
	607-11525	Fence (Plastic)	LF	115			115
X	700-70380	F/A Erosion Control	FA				131050.00

*It is anticipated that additional control measures and control measure quantities not shown on the SWMP Site Maps shall be required on the project for unforeseen conditions and replacement of items that are beyond their useful service life, see subsections 208.03 and 208.04. **Quantities for all control measures shown above are estimated, and have been increased for unforeseen conditions and normal control measure life expectancy.**

Quantities shall be adjusted according to the conditions encountered in the field as directed and approved by the Engineer. Payment shall be for the actual work completed and material used.

**Pay Item 208-00071 is included for anticipated maintenance of vehicle tracking pads based on the service life of the control measure in the field. The use of the material shall be directed and approved by the Engineer.

*** Using Erosion Control Management Pay Item on the project must be approved by the Regional Environmental Staff and Engineer. See 208.11 for method of measurement for the day pay unit.

**** F/A refers to CDOT's Force Account Pay Items.

9. BIOLOGICAL IMPACTS and DEWATERING

A. ENVIRONMENTAL IMPACTS:

Wetland Impacts: NO

Stream Impacts: NO

Threatened and Endangered Species: **[As a reference start with the NEPA Biological Assessment for Threatened and Endangered Species impacts or coordinate with the biologist or environmental specialist. If Threatened and Endangered Species are present, identify sensitive habitat/areas impacted by the project or areas to avoid by construction activities with orange plastic construction fencing. Do not list the species. If none, provide the following statement: "No species are anticipated to be impacted by the project."]**

B. DEWATERING:

(Not covered under the CDPHE guidance document Low Risk Discharge Guidance Discharges of Uncontaminated Groundwater to Land):

<https://www.colorado.gov/pacific/sites/default/files/WQ%20LOW%20RISK%20GW.pdf>

Dewatering: Refer to other environmental permits in accordance with subsection 107.02 and the permits contained in Tab 16 of the SWMP.


If groundwater does not meet water quality standards for receiving water a separate CDPS

Dewatering Permit shall be obtained by the Contractor from CDPHE in accordance with subsections 107.02 and 107.25.

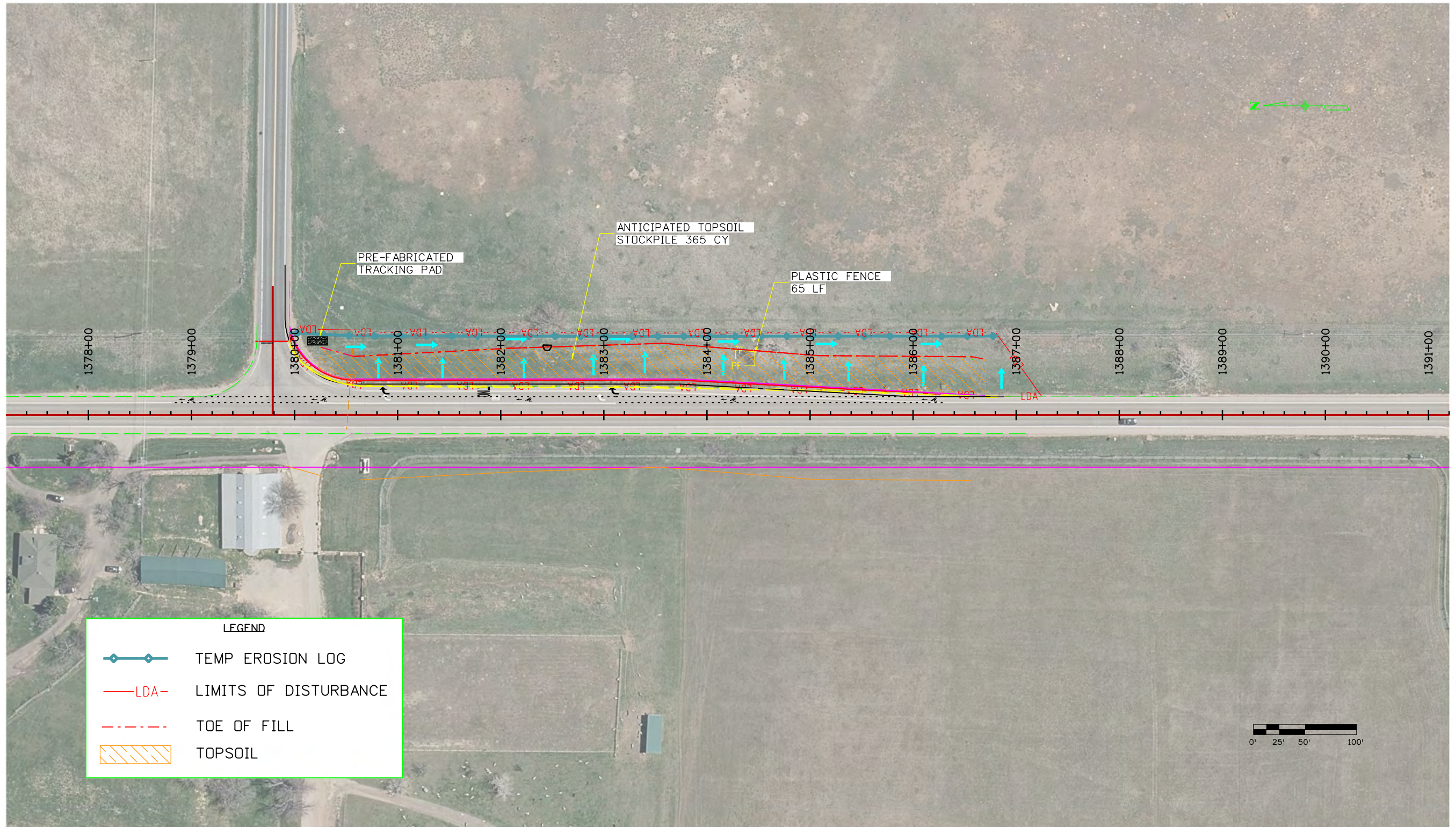
10. NOTES

[Use of this section may include, but is not limited to, documenting assumptions made in cost estimating]

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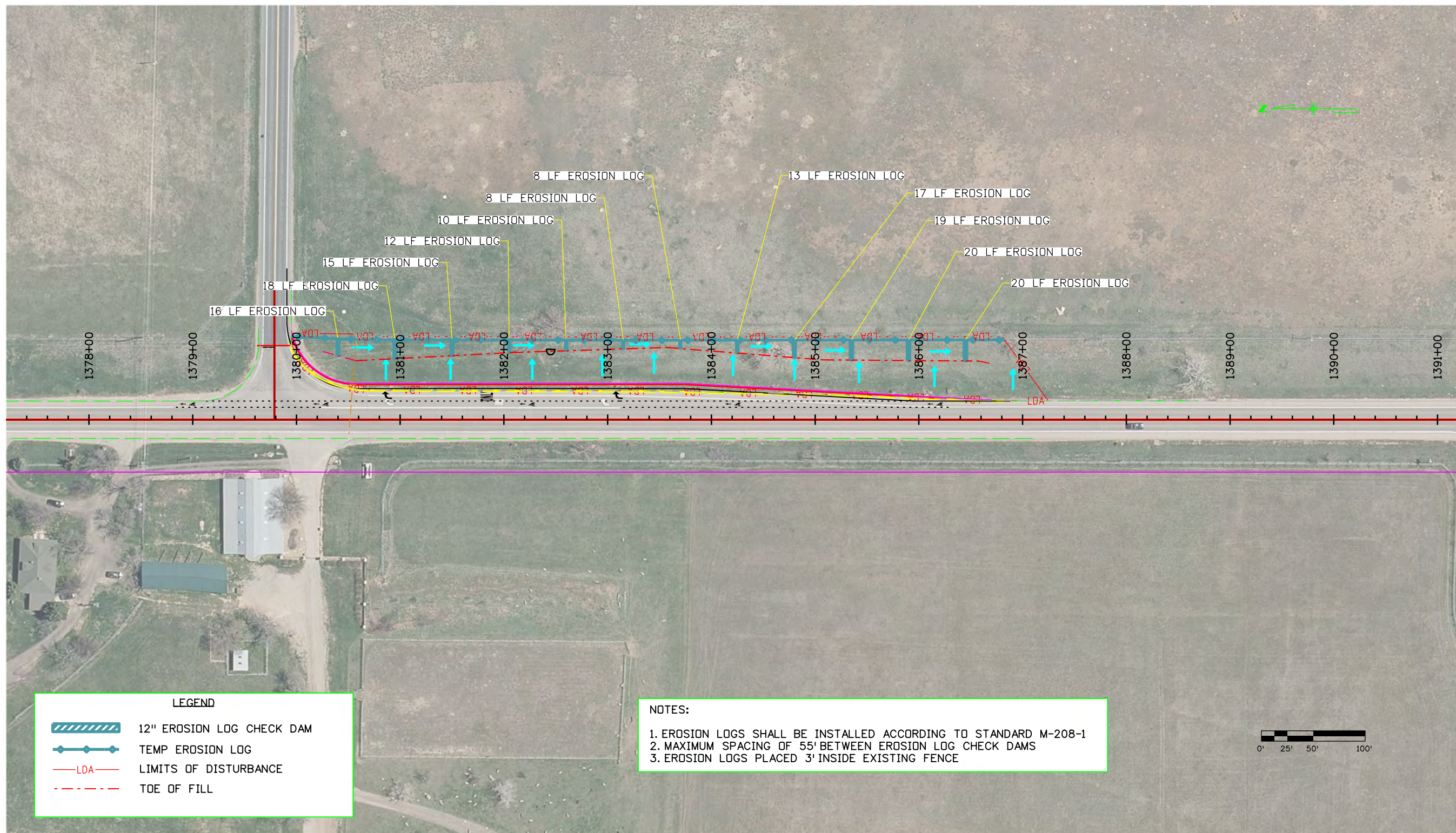
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LEGEND	
	TEMP EROSION LOG
	LIMITS OF DISTURBANCE
	TOE OF FILL
	TOPSOIL

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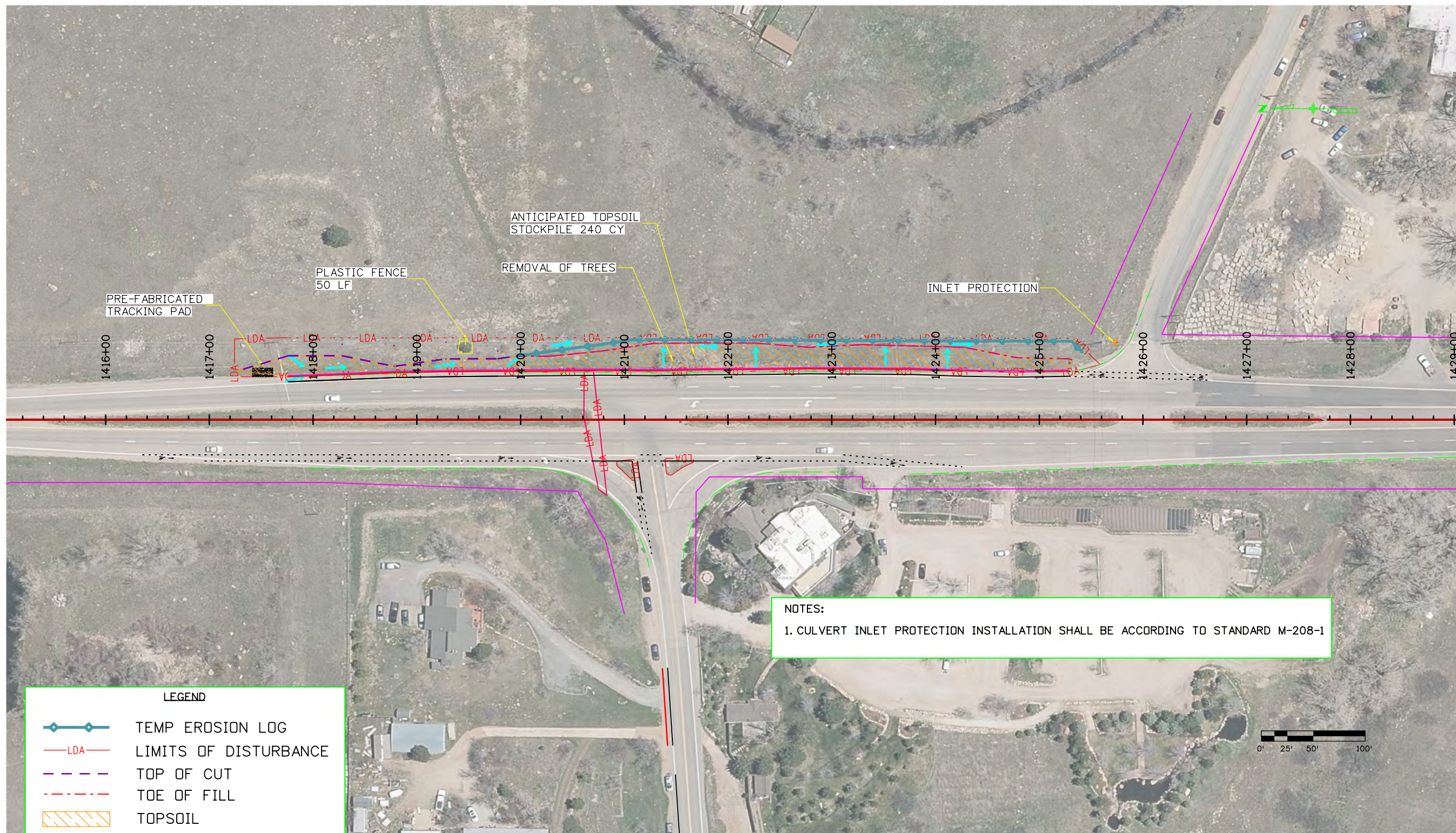
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	12" EROSION LOG CHECK DAM
	TEMP EROSION LOG
	LIMITS OF DISTURBANCE
	TOE OF FILL

NOTES:

1. EROSION LOGS SHALL BE INSTALLED ACCORDING TO STANDARD M-208-1
2. MAXIMUM SPACING OF 55' BETWEEN EROSION LOG CHECK DAMS
3. EROSION LOGS PLACED 3' INSIDE EXISTING FENCE

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	Horiz. Scale: 1"=100' Vert. Scale: As Noted					Revised:		Detailer:			24063
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NOTES:
 1. CULVERT INLET PROTECTION INSTALLATION SHALL BE ACCORDING TO STANDARD M-208-1

LEGEND	
	TEMP EROSION LOG
	LDA LIMITS OF DISTURBANCE
	TOP OF CUT
	TOE OF FILL
	TOPSOIL

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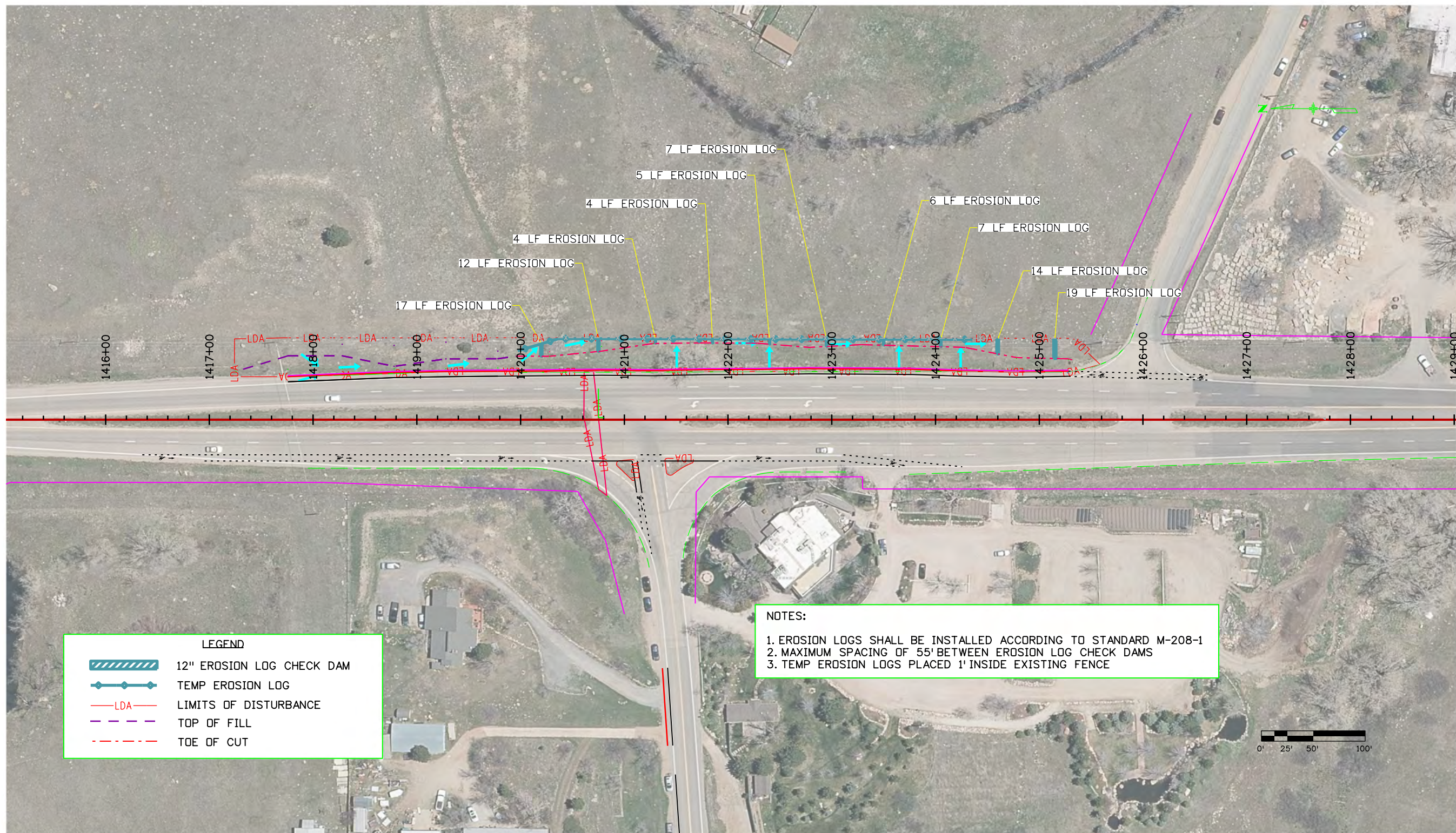
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LEFT HAND CANYON DR. SWMP INITIAL SITE MAP			
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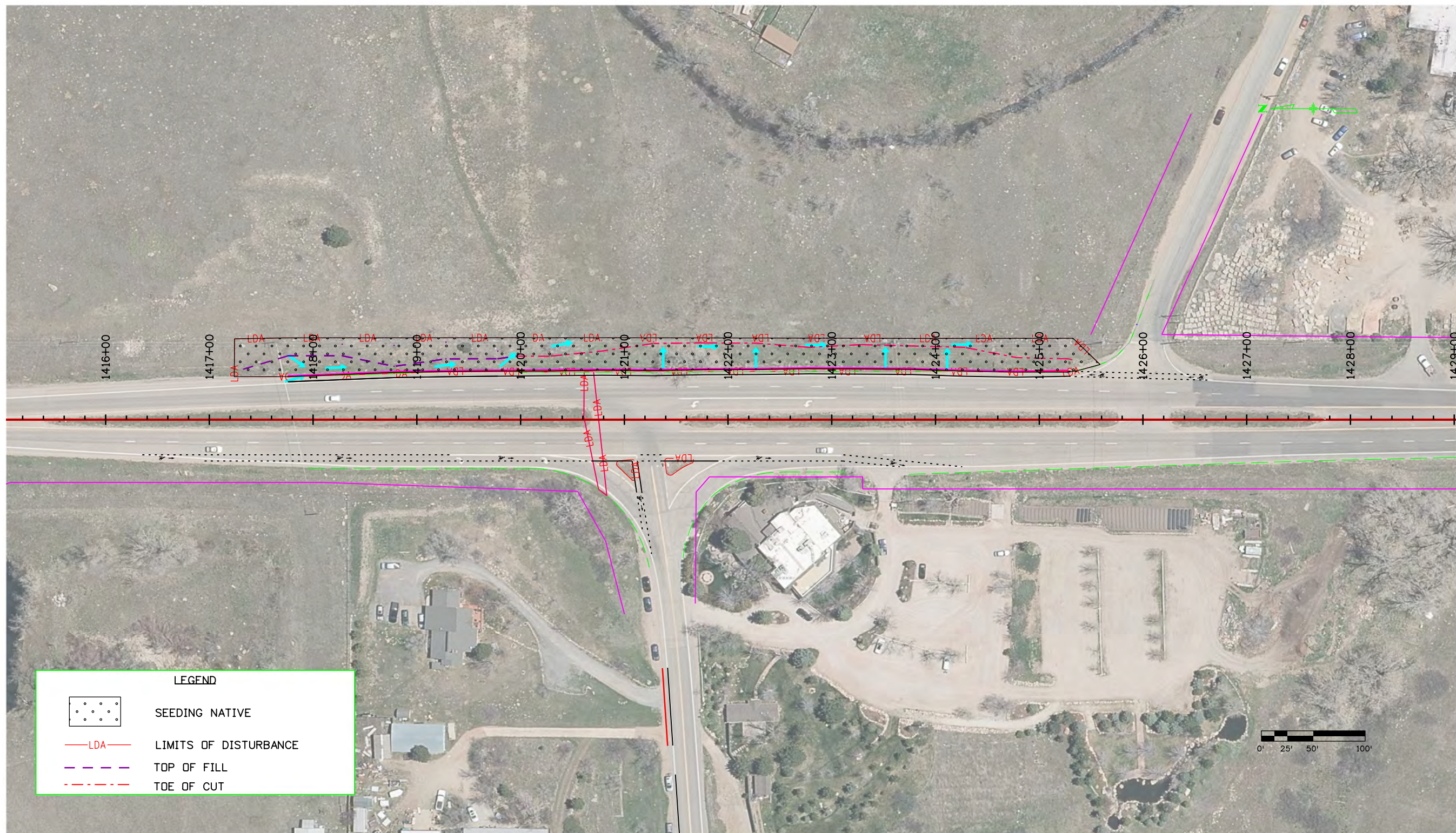


LEGEND	
	12" EROSION LOG CHECK DAM
	TEMP EROSION LOG
	LDA LIMITS OF DISTURBANCE
	TOP OF FILL
	TOE OF CUT

NOTES:
 1. EROSION LOGS SHALL BE INSTALLED ACCORDING TO STANDARD M-208-1
 2. MAXIMUM SPACING OF 55' BETWEEN EROSION LOG CHECK DAMS
 3. TEMP EROSION LOGS PLACED 1' INSIDE EXISTING FENCE

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LEGEND	
	SEEDING NATIVE
	LDA LIMITS OF DISTURBANCE
	TOP OF FILL
	TOE OF CUT

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