

MONTANA DEPARTMENT OF TRANSPORTATION

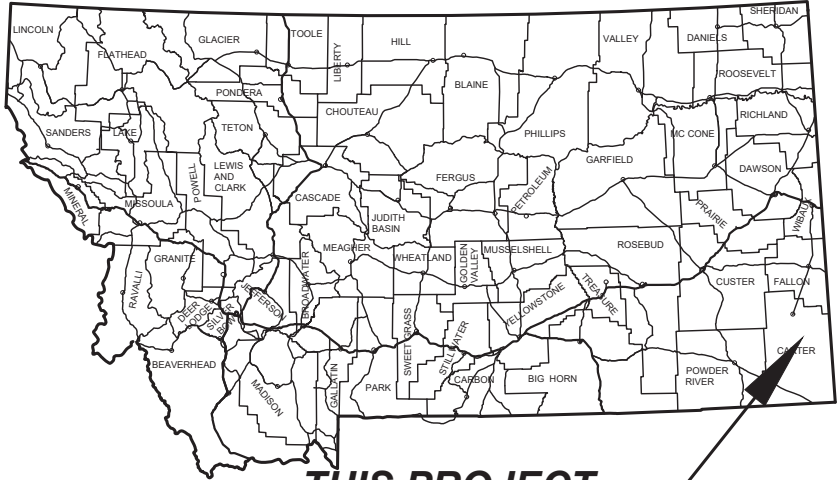
FEDERAL AID PROJECT STPP 323-1(44)22

CULVERT REPLACEMENT

MT-323 CULVERT - S OF EKALAKA

CARTER COUNTY

LENGTH 0.2 MILES



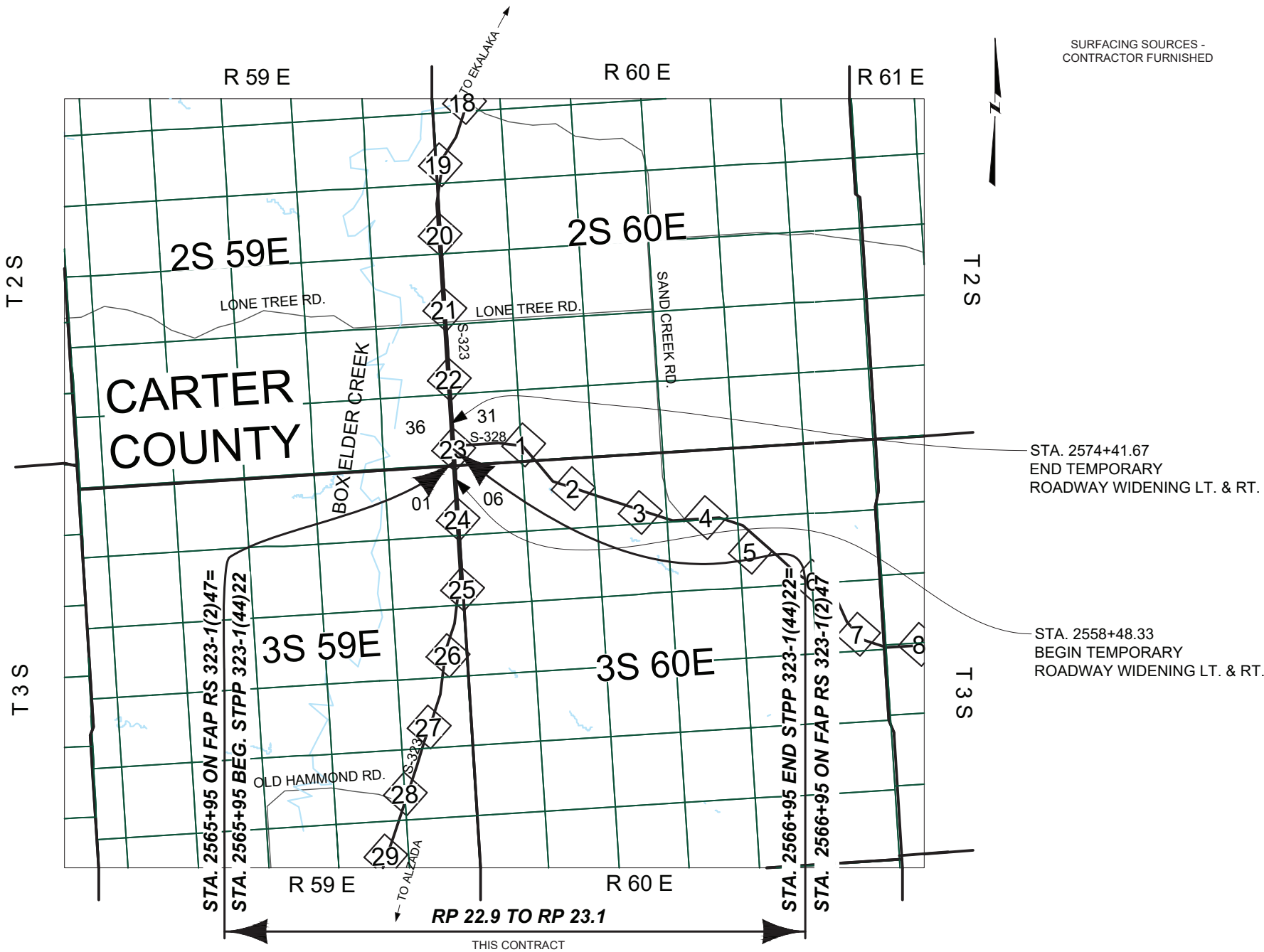
THIS PROJECT

PROJECT DESIGN DATA

PRESENT	2026	A.A.D.T. = 260
LETTING	2026	A.A.D.T. = 260
DESIGN	2046	A.A.D.T. = 320
		D.H.V. = 40
		TRUCKS = 20.8%
		V. = 60 MPH
		18 KIP ESAL'S = 23 DAILY
		ANNUAL GROWTH RATE = 1.0%

ASSOCIATED PROJECT AGREEMENT NUMBERS

R/W	
I.C.	
P.E.	STPP 323-1(43)22



MONTANA
DEPARTMENT OF TRANSPORTATION

APPROVED BY:
HIGHWAYS
ENGINEER

APPROVED

By David Holien at 10:50 am, Jul 01, 2026

DATE

MONTANA
DEPARTMENT OF TRANSPORTATION

DAVID
HOLIEN

20186PE

LICENSED
PROFESSIONAL ENGINEER

SHEET NO.

01

TITLE

PROJECT NAME
MT-323 CULVERT - S OF EKALAKA

COUNTY
CARTER

PROJECT ID
STPP 323-1(44)22

UPN
10867000

DESIGNED BY
B. FRANK

REVIEWED BY

CHECKED BY
J. SOLIDAY

10867000RDTTL001.DWG



ROAD PLANS

6/8/2026 7:57 AM

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NOTES

ROAD PLANS

SHEET NO.

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CROSS SECTIONS

MAINLINE	1-11
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BASIS OF PLAN QUANTITIES

(QUANTITIES FOR ESTIMATING PURPOSES ONLY)
COMP. AGGREGATE WEIGHT = 3700 LBS. PER CUBIC YARD
COMP. WEIGHT OF PL. MIX BIT. SURF. = 3855 LBS. PER CUBIC YARD
EMULSIFIED ASPHALT - TACK (ALL OTHER SURFACES)= 0.05 GAL. PER SQ. YARD (UNDILUTED)

UTILITIES

CALL THE UTILITIES UNDERGROUND LOCATION CENTER (811) OR OTHER NOTIFICATION SYSTEM FOR THE MARKING AND LOCATION OF ALL LINES AND SERVICES BEFORE EXCAVATING. ALL CLEARANCES OR DEPTHS PROVIDED FOR UTILITIES ARE FROM EXISTING GROUND LINE.

STATIONING - REFERENCE POSTS

STATIONING ON THIS PROJECT RUNS FROM SOUTH TO NORTH. REFERENCE POSTS RUN FROM NORTH TO SOUTH.

MAINTENANCE ITEMS

NO SEAL & COVER OR PAVEMENT MARKINGS WILL BE INCLUDED WITH THIS PROJECT. MDT MAINTENANCE WILL COMPLETE THESE ITEMS AT A LATER DATE.

AS-BUILTS

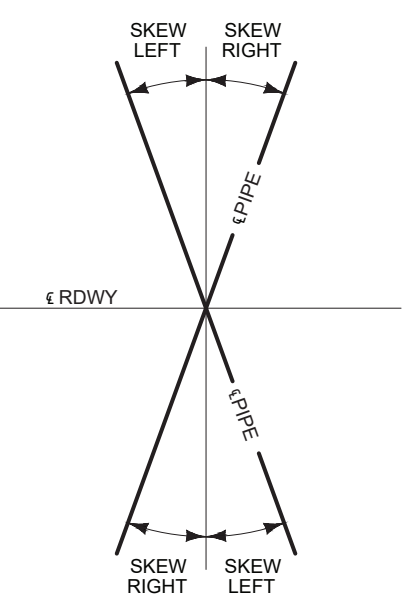
FOR HORIZONTAL ALIGNMENT AND STATIONING, REFER TO THE FOLLOWING "AS-BUILT" PROJECT(S):

FAS S-347(7) ALZADA - EKALAKA (1953)
RS 323-1(2)47 21 MI. SO. OF EKALAKA SO. ALZADA-EKALAKA (1979)

DESIGN DATA SOURCE

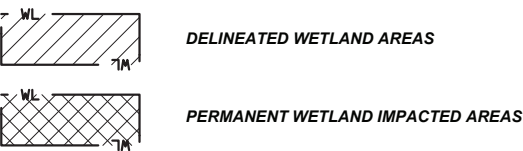
THIS PROJECT WAS DESIGNED USING SURFACE DATA DERIVED FROM THE MONTANA STATE LIBRARY LIDAR DATASET. REFERENCE ELEVATIONS HAVE BEEN INCLUDED IN THE COORDINATE TABLES FOR THIS PROJECT. THESE REFERENCE ELEVATIONS SHOULD BE USED TO VERIFY AND ADJUST DESIGN DATA TO MATCH EXISTING GROUND ELEVATIONS AS DIRECTED BY THE PROJECT MANAGER.

SKREW DIAGRAM



WETLANDS

WETLANDS EXIST ADJACENT TO THE ROADWAY AND MAY EXIST BEYOND THE PROJECT LIMITS. WETLAND AREAS AND PERMANENT WETLAND IMPACT AREAS WITHIN THE PROJECT LIMITS HAVE BEEN DELINEATED AND ARE SHOWN ON THE PLANS. ANY ACTION IMPACTING WETLAND AREAS OUTSIDE OF THE PERMANENT IMPACT AREAS SHOWN IS THE RESPONSIBILITY OF THE CONTRACTOR.



WETLAND DELINEATION TABLE					
WETLAND DESIGNATION	STATION		WETLAND AREA (acres)		REMARKS
			DELINEATED AREA	PERMANENT IMPACTED AREA	
	FROM	TO			
SITE 1A	2565+25	2566+95	0.114	0.001	RT.
SITE 1B	2565+79	2567+23	0.079		LT.
TOTAL			0.19	0.01	

TABLE OF CONTENTS & NOTES

PROJECT NAME
MT-323 CULVERT - S OF EKALAKA

COUNTY

CARTER

PROJECT ID

STPP 323-1(44)22

UPN

10867000

DESIGNED BY

B. FRANK 05/2026

REVIEWED BY

CHECKED BY

J. SOLIDAY 05/2026

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CENTERLINE
COORDINATE TABLE

PROJECT NAME
MT-323 CULVERT - S OF EKALAKA

COUNTY

CARTER

PROJECT ID

STPP 323-1(44)22

UPN

10867000



ROAD PLANS

6/8/2026 7:57 AM

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05/2026

REVIEWED BY

CHECKED BY

05/2026

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CENTERLINE COORDINATE TABLE				
STATION	DESCRIPTION	N OR Y COORDINATE	E OR X COORDINATE	REMARKS
2557+45.00	BOA	539,269.101	3,278,804.102	
2565+95.00	POT	540,117.431	3,278,750.845	BEGIN STPP 323-1(44)22 - LIDAR ELEVATION = 3,247.54'
2566+95.00	POT	540,217.235	3,278,744.580	END STPP 323-1(44)22 - LIDAR ELEVATION = 3,247.29'
2574+45.00	EOA	540,965.761	3,278,697.589	

ALIGNMENT NAME: 10867000_RD_EA_PTW_LIDAR

PROFILE NAME: 10867000_RD_PP_MAINLINE

CONTROL DIAGRAM

SCALE: 1" = 200'

NOTE:
THIS PROJECT IS ON THE MONTANA COORDINATE SYSTEM NAD83-2011
NORTHING AND EASTING COORDINATES ARE EXPRESSED IN UNITS OF
INTERNATIONAL FEET AND ELEVATIONS ARE IN UNITS OF U.S. SURVEY FEET.
DIMENSIONS SHOWN ON THE PLANS ARE GRID. ALL SURVEY AND STAKING REQUIRE
THE USE OF A COMBINATION SCALE FACTOR (CSF) TO CONVERT GRID DIMENSIONS
TO GROUND DIMENSIONS (GRID DISTANCE / CSF = GROUND DISTANCE). THE CSF
FOR THIS PROJECT IS 0.99953472

BEARING SOURCE

GRID -- MONTANA COORDINATE SYSTEM NAD 83-2011

LEVEL DATUM SOURCE

ELEVATIONS DERIVED FROM DIFFERENTIAL LEVELS HOLDING BMS A10867

CONTROL ABSTRACT

POINT NAME/NUMBER	N OR Y COORDINATE	E OR X COORDINATE	POINT ELEVATION
A10867	540,463.934	3,278,622.149	3,244.57
B10867	540,281.135	3,278,858.084	3,246.18
C10867	539,804.652	3,278,888.593	3,246.10
D10867	539,591.736	3,278,677.772	3,243.53



2574+45

EOA 2574+45.00

2570+00

A10867

B10867

MP
23

STA: 2565+34

C10867

D10867

2560+00

BOA 2557+45.00

2557+45

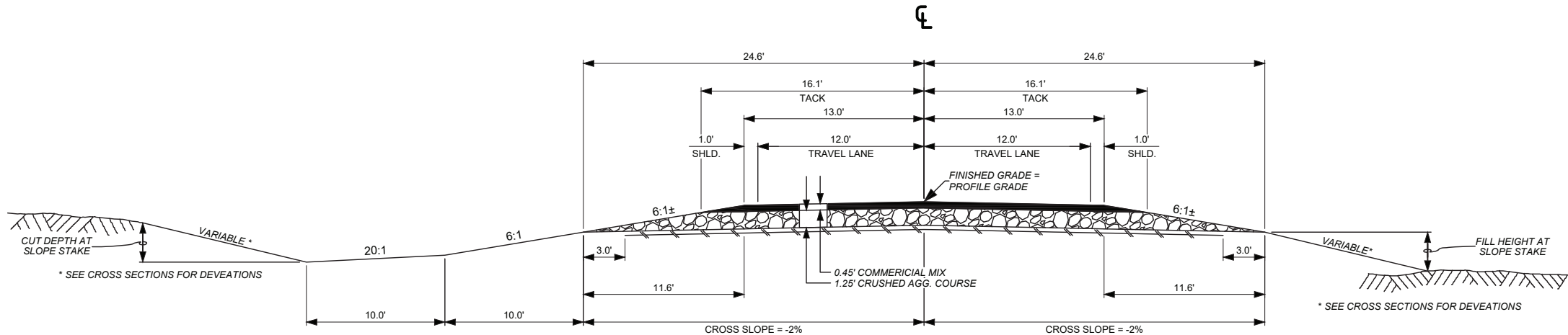
ADVERTISED COPY
TYPICAL SECTION NO. 1
CULVERT REPLACEMENT

2565+95.00 TO 2566+95.00

SHEET NO.

05

TYPICAL SECTIONS



QUANTITIES

UNIT	AGG.		UNIT	BIT. MAT EMULSIFIED ASPHALT TACK ▲	SEPARATION GEOTEXTILE
	COMMERCIAL PLANT MIX	CRUSHED AGG. COURSE			
AREA square feet	13.10	50.88	square yards PER STATION	1,074	480
cubic yards PER STATION	48.5	188.4	tons PER STATION	54	
tons PER STATION	93.5		gals PER STATION		
square yards PER STATION					

▲ BASED ON 3 APPLICATIONS

* FILL SLOPES		* BACK SLOPE	
0' - 10'	6:1	0' - 5'	5:1
10' - 20'	4:1	5' - 10'	4:1
OVER 20'	3:1	OVER 10'	3:1

* SEE CROSS SECTIONS FOR DEVIATIONS

PROJECT NAME
MT-323 CULVERT - S OF EKALAKA

COUNTY

CARTER

PROJECT ID

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B. FRANK

REVIEWED BY

CHECKED BY

J. SOLIDAY

10867000RDTP001.DWG



ROAD PLANS

6/8/2026 7:57 AM

CULVERTS														
STATION	linear feet	CLASS OR THK.	END SECTIONS		linear feet	cu. yards				sq. yards	linear feet	SKEW ANGLE	CULVERT IN PL. in x ft	REMARKS
	RCP				REMOVE PIPE CULVERT	FOUND-ATION MATERIAL	GRANULAR BEDDING MATERIAL	SPECIAL BACKFILL	CONCRETE - CLASS GENERAL	GEOTEXT. STAB.	HEIGHT OF COVER			
	96"				LEFT	RIGHT								
2566+44	122	CL. 2	①	①		122	168	1,206	14.2	420	8.1	2° RT.		CULVERT BEARING - S 88° 24' 28" W DR. - EMBEDDED INSTALL 0.9' ② 92' RCP BARREL LENGTH
2566+45					128								108" x 128' CMP/DR.	
TOTAL	122	~	~	~	128	122	168	1,206	14.2	420	~	~	~	

① 96 IN RCP SLOPED HEADWALL STRUCTURE - SEE DETAIL
② SEE PIPE DETAILS FOR INVERT ELEVATIONS

TEMPORARY GUARDRAIL						
STATION		linear feet		each		REMARKS
		TEMPORARY BARRIER RAIL	RESET TEMPORARY BARRIER RAIL	TEMPORARY IMPACT ATTENUATOR	RESET TEMPORARY IMPACT ATTENUATOR	
FROM	TO					
2565+40.00	2566+80.00		140		2	TEMP. ROADWAY WIDENING LT. (INSIDE)
2565+55.00	2566+55.00	100		2		TEMP. ROADWAY WIDENING RT. (OUTSIDE)
2566+10.00	2567+50.00	140		2		TEMP. ROADWAY WIDENING RT. (INSIDE)
2566+35.00	2567+35.00		100		2	TEMP. ROADWAY WIDENING LT. (OUTSIDE)
TOTAL		240	240	4	4	

SEE SPECIAL PROVISION

 MONTANA Department of Transportation ROAD PLANS 6/8/2026 7:57 AM		PROJECT NAME		MT-323 CULVERT - S OF EKALAKA	
		DESIGNED BY		B. FRANK	
				05/2026	
		REVIEWED BY			
				COUNTY	
				CARTER	
		CHECKED BY		PROJECT ID	
				STPP 323-1(44)22	
		J. SOLIDAY		UPN	
				10867000	
		10867000RDSUM001.DWG			

HYDRAULIC DATA SUMMARY

[illegible]

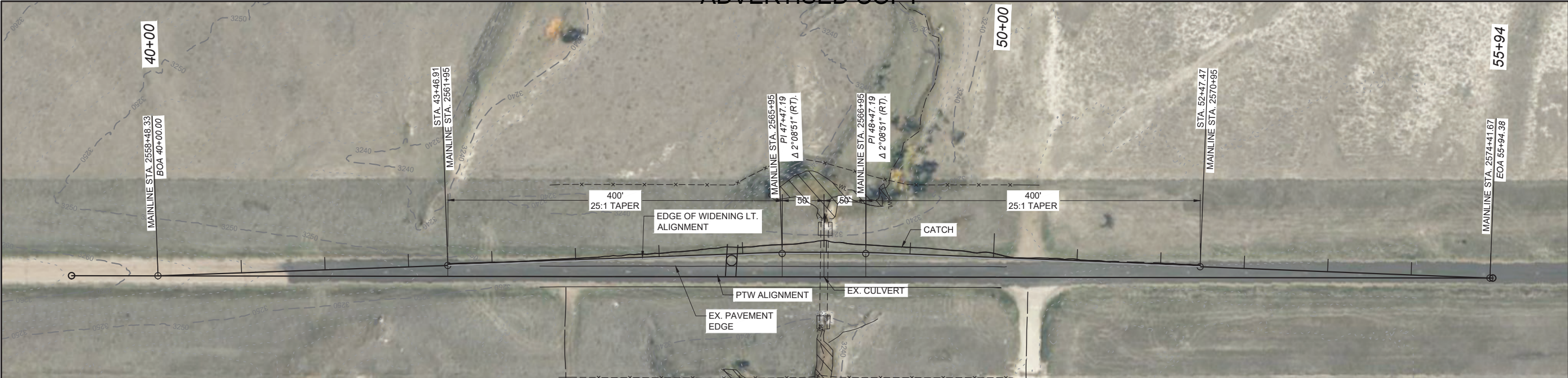
* H.W. ELEVATIONS SHOWN ARE BASED UPON PEAK FLOW ANALYSIS UNLESS NOTED IN REMARKS COLUMN.

ADDITIONAL GUIDANCE ON THE HYDRAULIC DATA SUMMARY SHEET CAN BE FOUND IN SECTION 11.8.2 OF THE HYDRAULICS MANUAL.

- ① STRUCTURE SIZE OR TYPE AND RELATED HYDRAULIC DATA MAY NOT REFLECT CHANGES MADE DUE TO R/W OR OTHER CONSIDERATIONS (I.E. STOCKPASS ADDED, STRUCTURE SIZE OR TYPE CHANGED, ROAD GRADE CHANGED DURING CONSTRUCTION, ETC.)
- ② BRIDGE TOP LENGTH AND NUMBER OF SPANS OR BASE BID CULVERT SIZE AND SHAPE.
- ③ OVERTOPPING IS DEFINED AS FLOW OVER THE ROAD, FLOW THROUGH A SIGNIFICANT RELIEF STRUCTURE OR FLOW OVER THE BASIN DIVIDE WHICHEVER IS LOWER.
- ④ FOR THOSE CROSSINGS NOTED BY $Q_p(\max)$ IN THE REMARKS COLUMN, OVERTOPPING DOES NOT OCCUR THROUGH THE $Q_p(\max)$ EVENT. $Q_p(\max)$ IS THE 200 YEAR EVENT FOR CULVERTS AND THE 500 YEAR EVENT FOR BRIDGES.
- ⑤ HEAD WATER ELEVATIONS MAY VARY SLIGHTLY DEPENDING UPON THE PIPE OPTION SELECTED.
- ⑥ NOTE ANY CULVERTS THAT WERE SIZED USING THE HEADWATER EXCEPTION PROCEDURE PER SECTION 11.3.1.3.2 OF THE HYDRAULICS MANUAL. (FORMERLY CALLED PM10.)

EXCEEDANCE PROBABILITY	
25 YEAR	4% CHANCE
50 YEAR	2% CHANCE
100 YEAR	1% CHANCE
200 YEAR	0.5% CHANCE
500 YEAR	0.2% CHANCE

 MONTANA <i>Department of Transportation</i>	DESIGNED BY	B. FRANK	05/2026
	REVIEWED BY		
	CHECKED BY	J. SOLIDAY	05/2026
	10867000\HYHDS001.DWG		
	6/8/2026 7:57 AM		



NOTES:
1. WARP CATCH AROUND TOP OF CULVERT.
2. AERIAL IMAGERY SHOWN FOR INFORMATION ONLY.
3. BLEND TRANSITION BETWEEN APPROACHES AND TEMPORARY ROADWAY WIDENING TO 10:1 OR FLATTER.

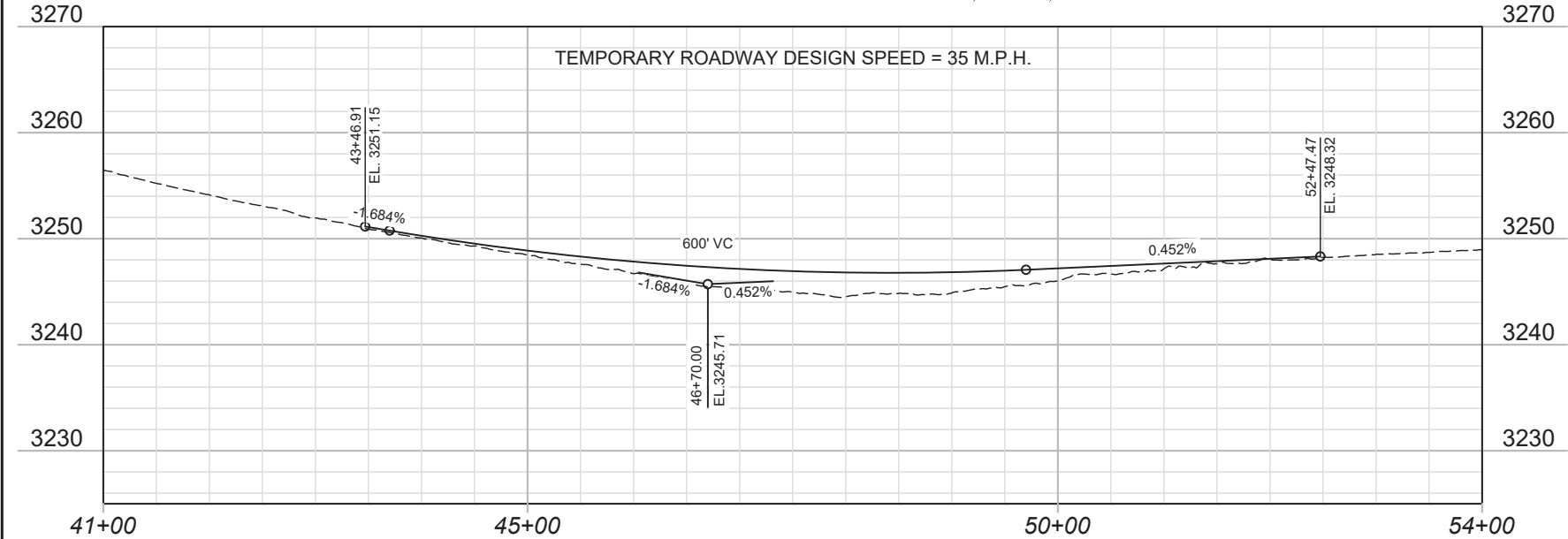
EDGE OF WIDENING LT. COORDINATE TABLE				
STATION	DESCRIPTION	N OR Y COORDINATE	E OR X COORDINATE	REMARKS
40+00.00	BOA	539,372.231	3,278,797.628	MAINLINE STATION = 2558+48.33
43+46.91	POT	539,717.403	3,278,762.933	START WIDENING - LIDAR ELEVATION = 3,250.97'
47+47.19	PI	540,115.677	3,278,722.900	ANGLE BREAK Δ = 2°08'51" (RT).
48+47.19	PI	540,215.480	3,278,716.635	ANGLE BREAK Δ = 2°08'51" (RT).
52+47.47	POT	540,615.634	3,278,706.543	END WIDENING - LIDAR ELEVATION = 3,248.20'
55+94.38	EOA	540,962.434	3,278,697.797	MAINLINE STATION = 2574+41.67

ALIGNMENT NAME: 10867000_RD_PA_WIDENING_LT

PROFILE NAME: 10867000_RD_PA_WIDENING_LT_PP

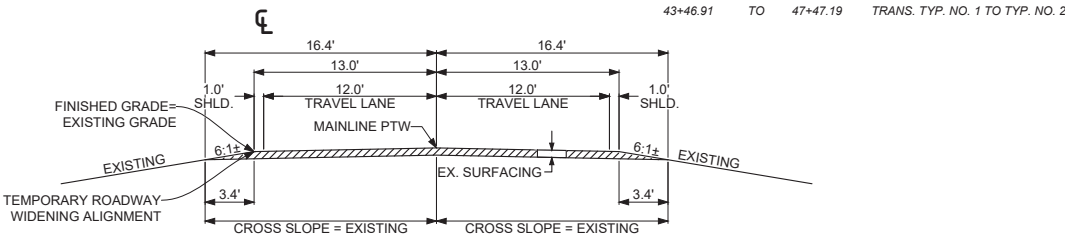
TEMPORARY ROADWAY WIDENING QUANTITIES				
STATION		TOTAL #	REMARKS	
FROM	TO			
43+46.91	52+47.47	35 CU. YDS.	EXCAVATION	
43+46.91	52+47.47	280 CU. YDS.	EMBANKMENT IN PLACE	
43+46.91	52+47.47	245 CU. YDS.	EXCAVATION - UNCLASSIFIED BORROW	
43+46.91	52+47.47	152 CU. YDS.	CRUSHED AGG. COURSE	
TOTAL		~		

FOR INFORMATION ONLY - INCLUDED IN THE COST OF DETOUR- CONSTRUCT, MAINTAIN, REMOVE.



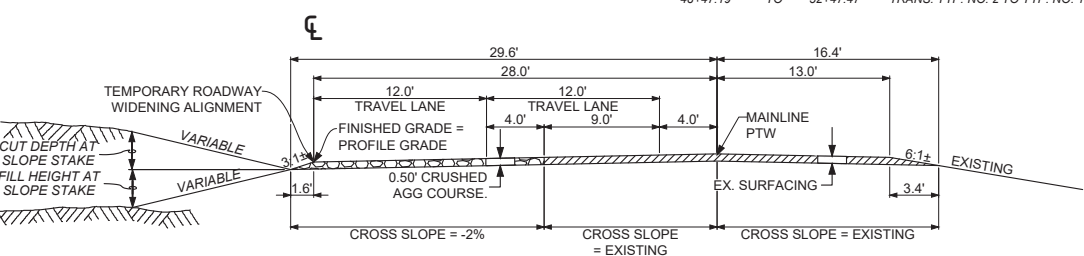
TYPICAL SECTION NO. 1

TEMPORARY ROADWAY WIDENING



TYPICAL SECTION NO. 2

TEMPORARY ROADWAY WIDENING



SHEET NO.

09

DETAIL
TEMPORARY ROADWAY
WIDENING LT.
(NO SCALE)

PROJECT NAME
MT-323 CULVERT - S OF EKALAKA

COUNTY

CARTER

PROJECT ID

STPP 323-1(44)22

UPN

10867000

DESIGNED BY

B. FRANK 05/2026

REVIEWED BY

CHECKED BY

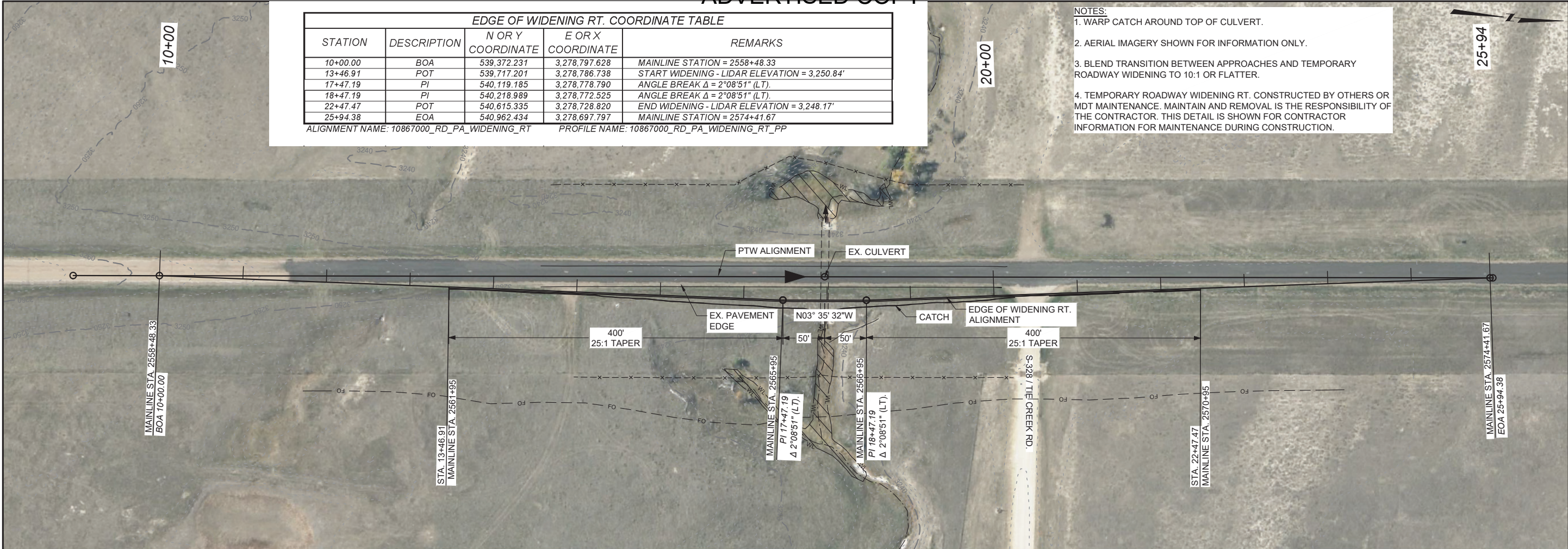
J. SOLIDAY 05/2026

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MONTANA
Department of Transportation

ROAD PLANS

6/8/2026 7:57 AM



EDGE OF WIDENING RT. COORDINATE TABLE				
STATION	DESCRIPTION	N OR Y COORDINATE	E OR X COORDINATE	REMARKS
10+00.00	BOA	539,372.231	3,278,797.628	MAINLINE STATION = 2558+48.33
13+46.91	POT	539,717.201	3,278,786.738	START WIDENING - LIDAR ELEVATION = 3,250.84'
17+47.19	PI	540,119.185	3,278,778.790	ANGLE BREAK $\Delta = 2^{\circ}08'51''$ (LT).
18+47.19	PI	540,218.989	3,278,772.525	ANGLE BREAK $\Delta = 2^{\circ}08'51''$ (LT).
22+47.47	POT	540,615.335	3,278,728.820	END WIDENING - LIDAR ELEVATION = 3,248.17'
25+94.38	EOA	540,962.434	3,278,697.797	MAINLINE STATION = 2574+41.67

ALIGNMENT NAME: 10867000_RD_PA_WIDENING_RT PROFILE NAME: 10867000_RD_PA_WIDENING_RT_PP

- NOTES:
1. WARP CATCH AROUND TOP OF CULVERT.
 2. AERIAL IMAGERY SHOWN FOR INFORMATION ONLY.
 3. BLEND TRANSITION BETWEEN APPROACHES AND TEMPORARY ROADWAY WIDENING TO 10:1 OR FLATTER.
 4. TEMPORARY ROADWAY WIDENING RT. CONSTRUCTED BY OTHERS OR MDT MAINTENANCE. MAINTAIN AND REMOVAL IS THE RESPONSIBILITY OF THE CONTRACTOR. THIS DETAIL IS SHOWN FOR CONTRACTOR INFORMATION FOR MAINTENANCE DURING CONSTRUCTION.

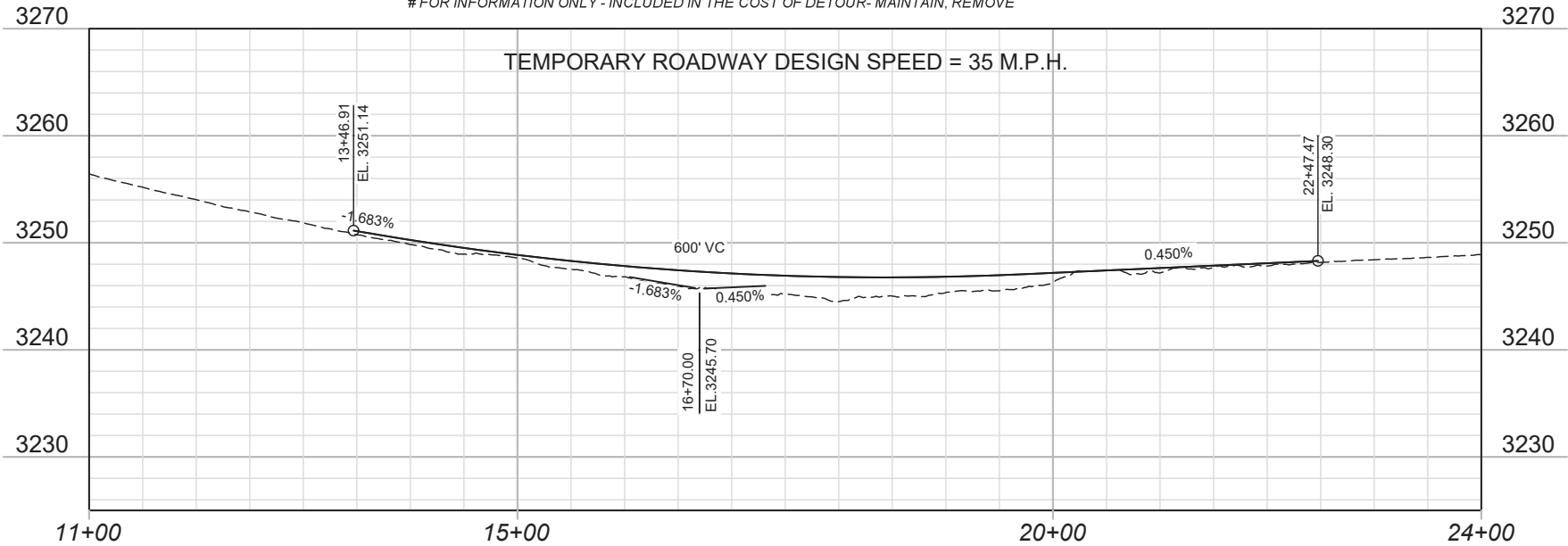
SHEET NO.

10

DETAIL
TEMPORARY ROADWAY
WIDENING RT.
(NO SCALE)

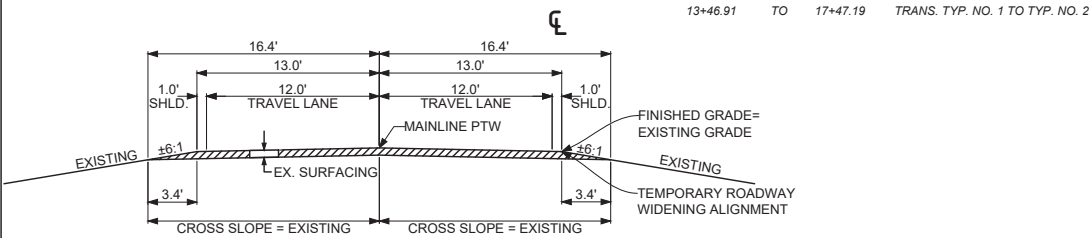
TEMPORARY ROADWAY WIDENING QUANTITIES				
STATION		TOTAL #		REMARKS
FROM	TO			
13+46.91	22+47.47	41 CU. YDS.		EXCAVATION
13+46.91	22+47.47	213 CU. YDS.		EMBANKMENT IN PLACE
13+46.91	22+47.47	172 CU. YDS.		EXCAVATION - UNCLASSIFIED BORROW
13+46.91	22+47.47	152 CU. YDS.		CRUSHED AGG. COURSE
TOTAL		~		

FOR INFORMATION ONLY - INCLUDED IN THE COST OF DETOUR- MAINTAIN, REMOVE



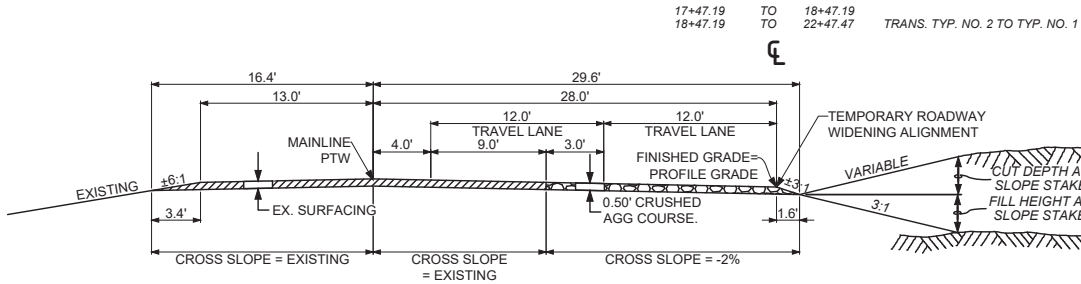
TYPICAL SECTION NO. 1

TEMPORARY ROADWAY WIDENING



TYPICAL SECTION NO. 2

TEMPORARY ROADWAY WIDENING



PROJECT NAME
MT-323 CULVERT - S OF EKALAKA

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B. FRANK

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05/2026

CHECKED BY
05/2026

10867000RDEET001.DWG

MONTANA
Department of Transportation

ROAD PLANS

6/8/2026 7:57 AM

DETAIL
96 IN RCP SLOPED END
HEADWALL STRUCTURE
(NO SCALE)

PROJECT NAME
MT-323 CULVERT - S OF EKALAKA

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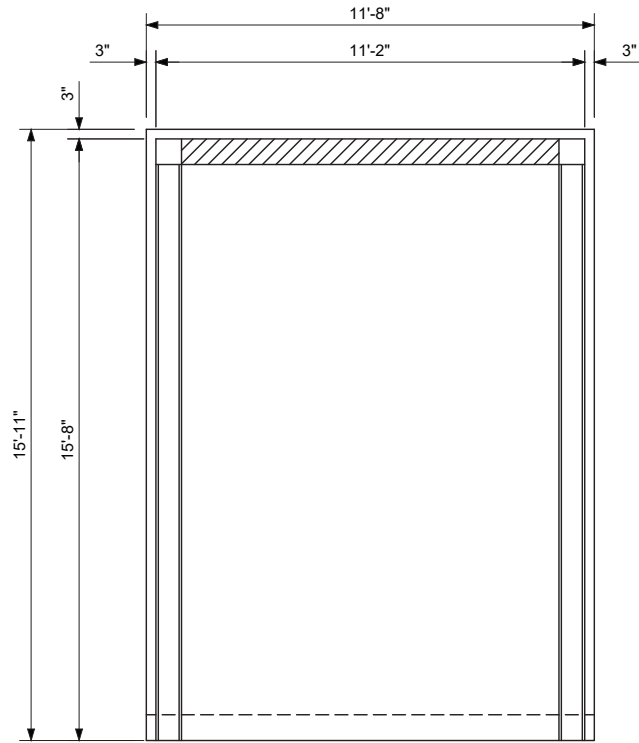
J. SOLIDAY 05/2026

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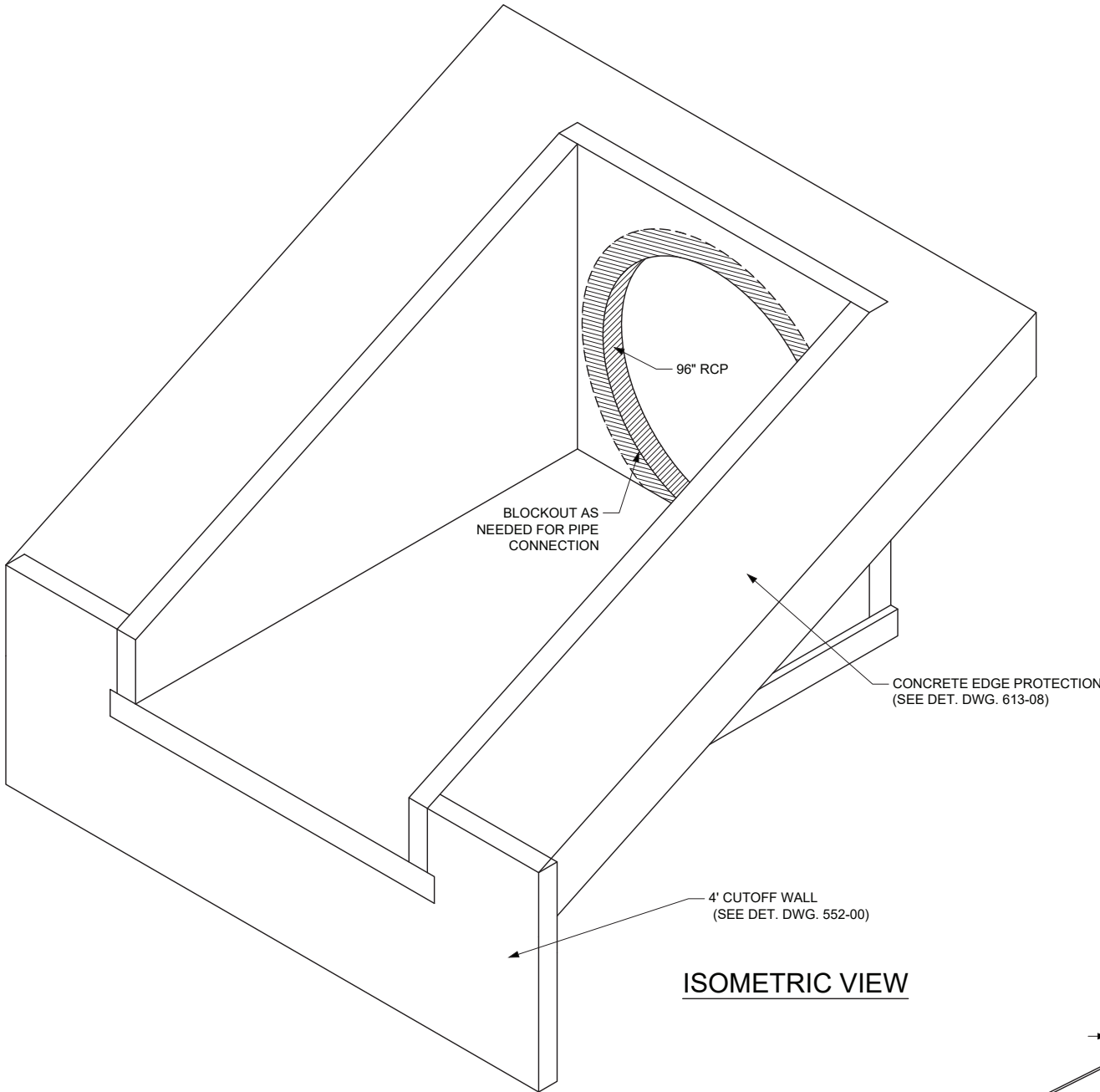


ROAD PLANS

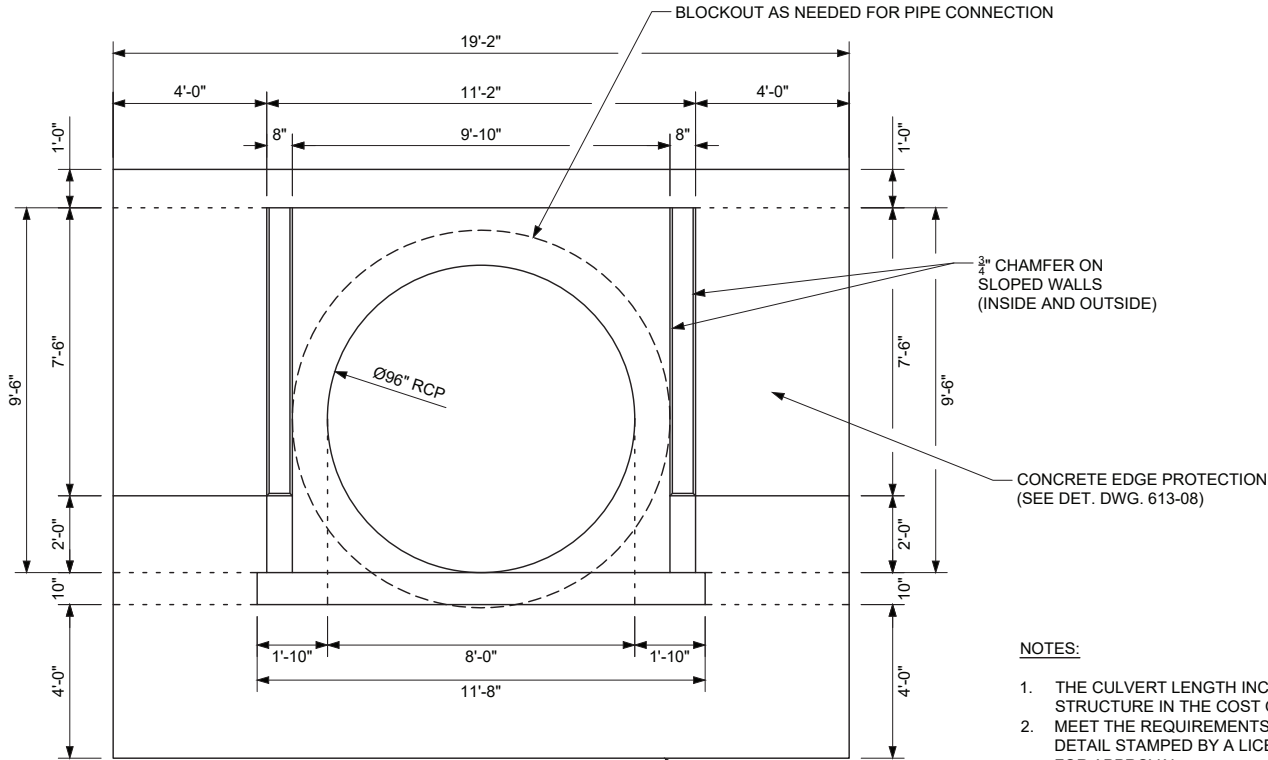
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TOP VIEW



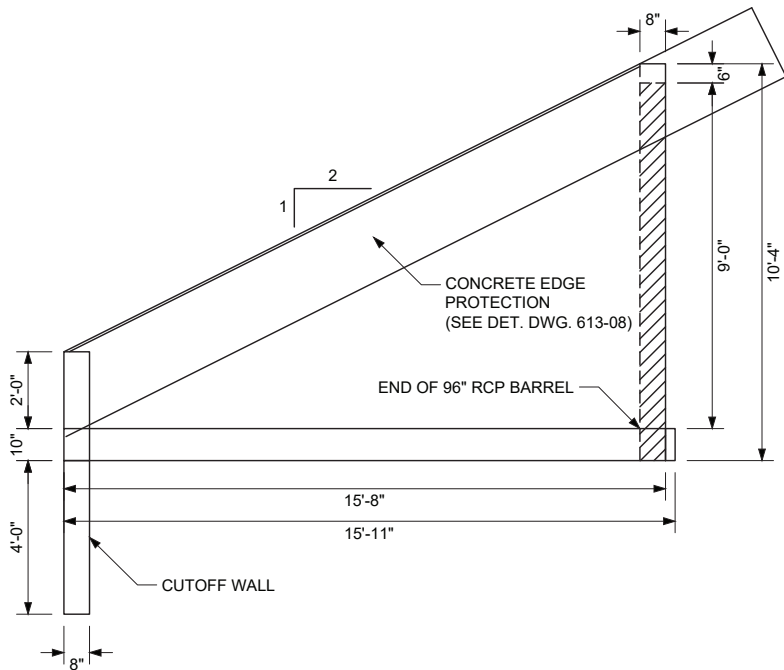
ISOMETRIC VIEW



FRONT VIEW

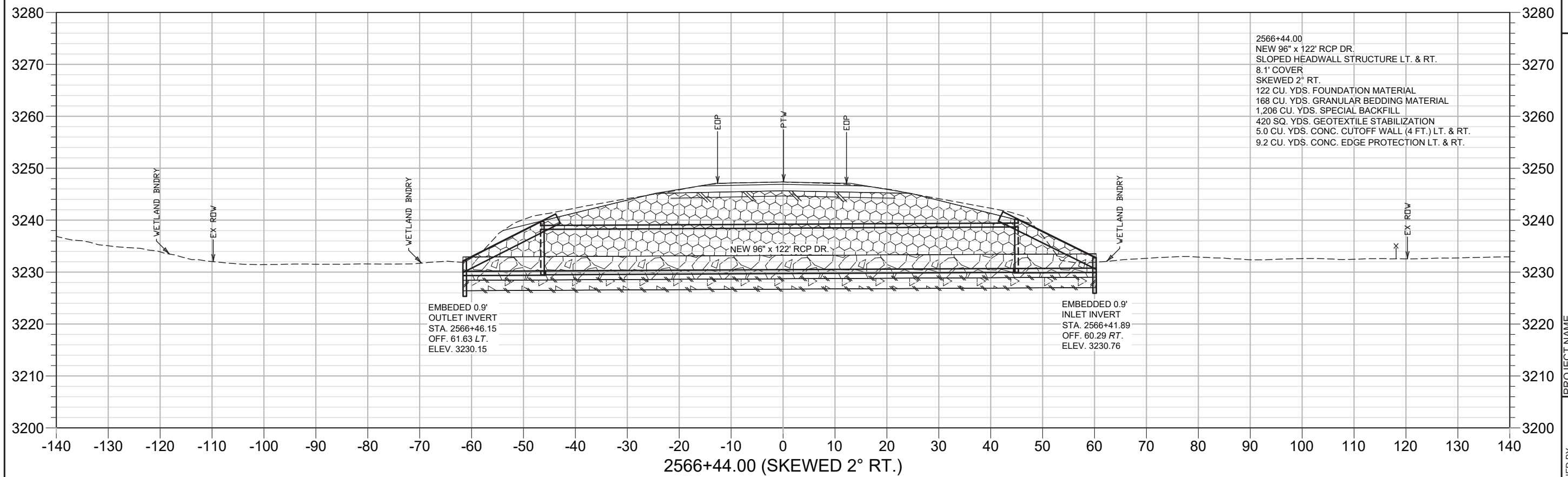
NOTES:

1. THE CULVERT LENGTH INCLUDES THE SLOPED END HEADWALL STRUCTURE. INCLUDE THE STRUCTURE IN THE COST OF THE CULVERT.
2. MEET THE REQUIREMENTS FOR CLASS GENERAL CONCRETE. SUBMIT A REINFORCING DETAIL STAMPED BY A LICENSED PROFESSIONAL ENGINEER TO THE PROJECT MANAGER FOR APPROVAL.
3. SUBMIT A REQUEST FOR ALTERNATE SLOPED END DIMENSIONS TO THE PROJECT MANAGER FOR APPROVAL.
4. MEET THE PIPE CONNECTION REQUIREMENTS OF SECTION 603.03.3.E.1. INSTALL THE PIPE END FLUSH WITH THE INTERIOR WALL OF THE SLOPED END HEADWALL.
5. SEE DETAILED DRAWINGS FOR CUTOFF WALL AND CONCRETE EDGE PROTECTION REQUIREMENTS.



SIDE VIEW

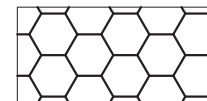
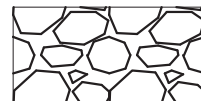
DETAIL
PROPOSED CULVERT
STA. 2566+44
(NO SCALE)

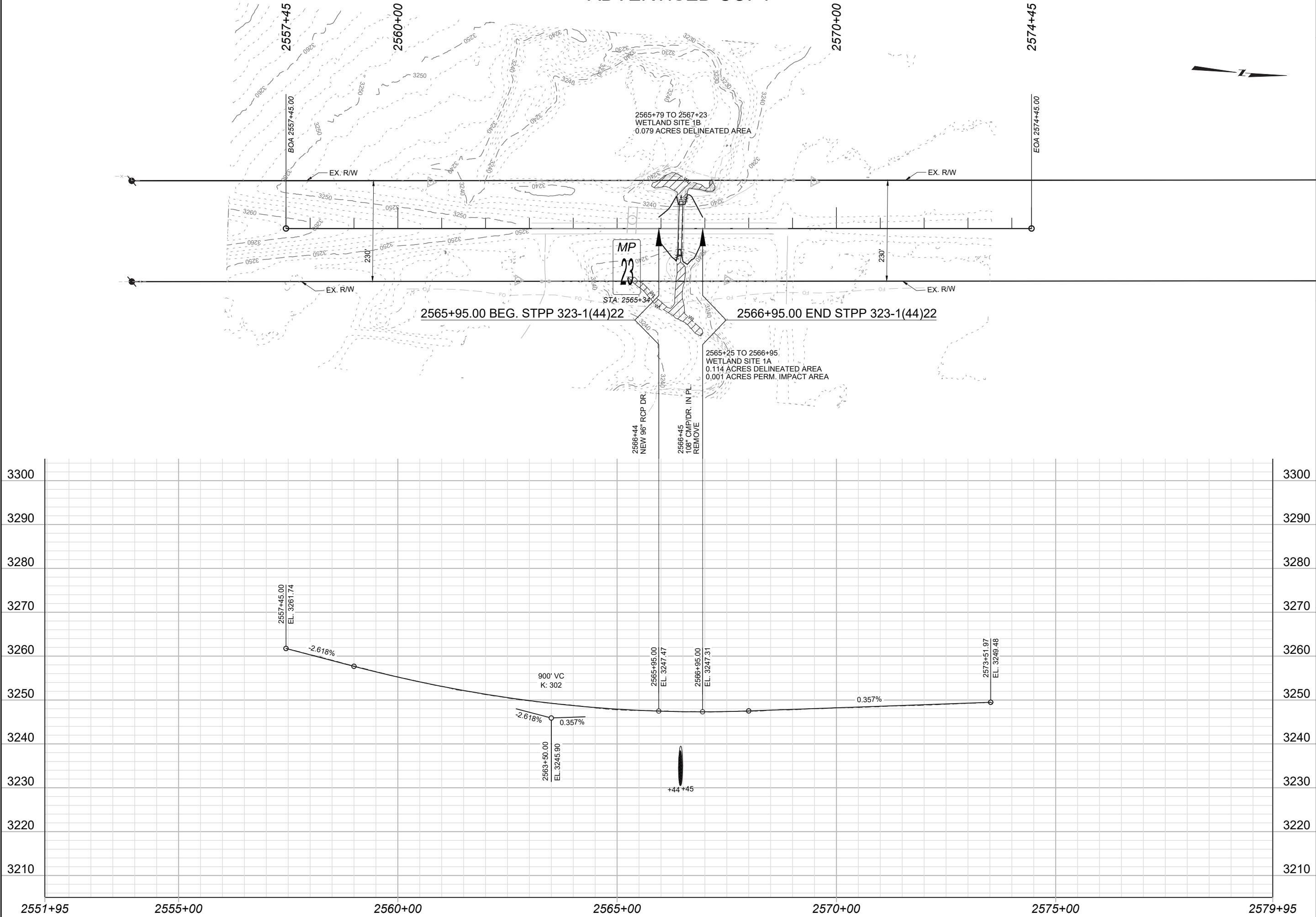


EMBEDED 0.9'
OUTLET INVERT
STA. 2566+46.15
OFF. 61.63 LT.
ELEV. 3230.15

EMBEDDED 0.9'
INLET INVERT
STA. 2566+41.89
OFF. 60.29 RT.
ELEV. 3230.76

2566+44.00 (SKEWED 2° RT.)





MAINLINE CROSS SECTIONS

PROJECT NAME
MT 323 CULVERT - S OF EKALAKA

COUNTY

CARTER

PROJECT ID

STPP 323-1(44)22

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10867000

DESIGNED BY

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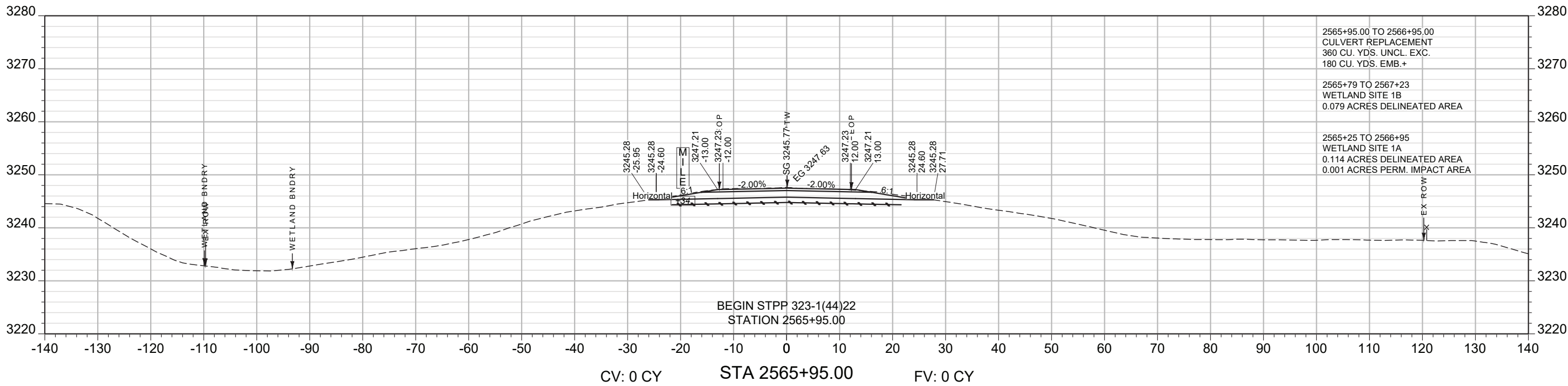
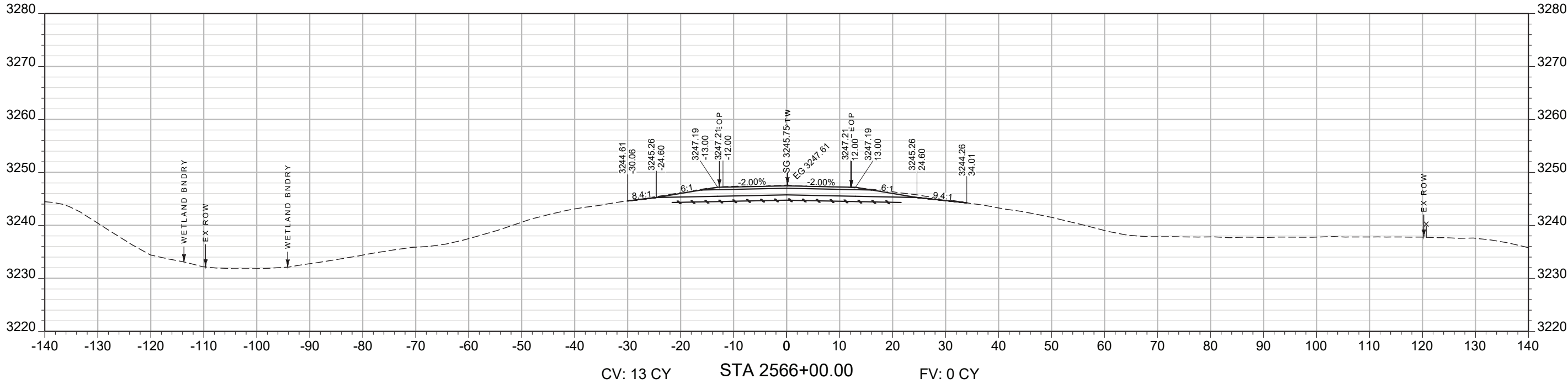
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CROSS SECTIONS

6/8/2026 7:42 AM



MAINLINE CROSS SECTIONS

PROJECT NAME

MT 323 CULVERT - S OF EKALAKA

COUNTY

CARTER

PROJECT ID

STPP 323-1(44)22

UPN

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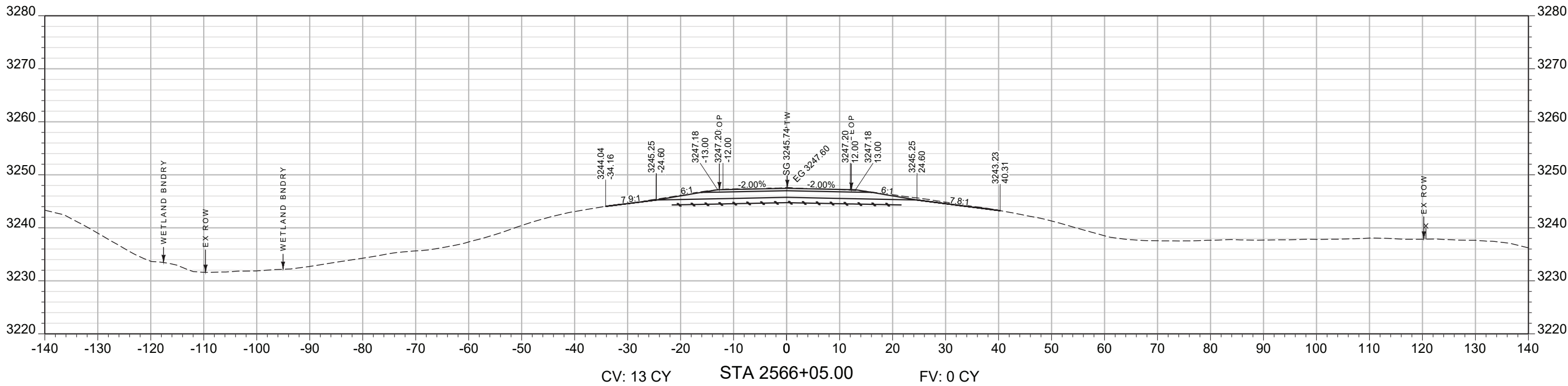
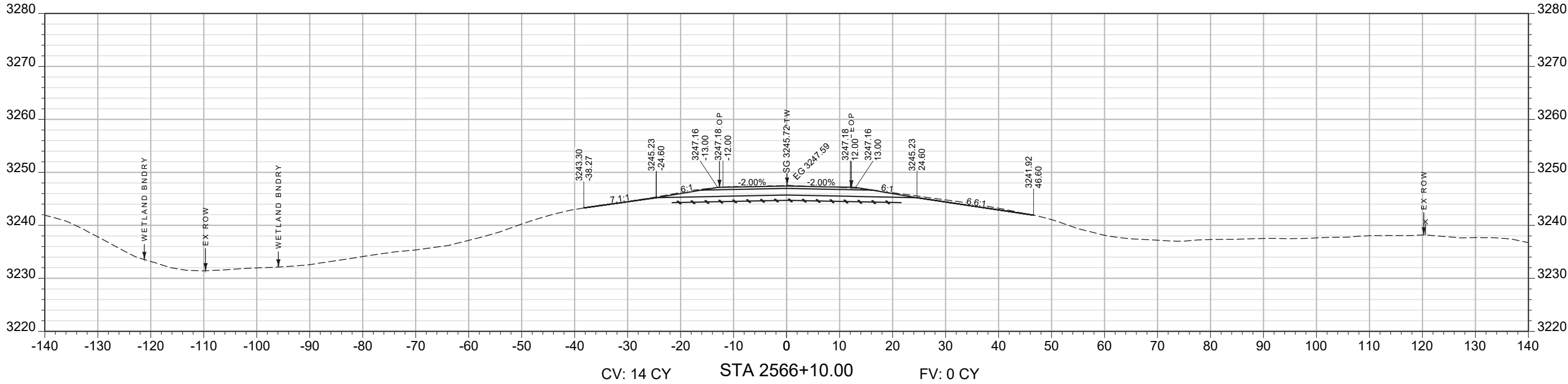
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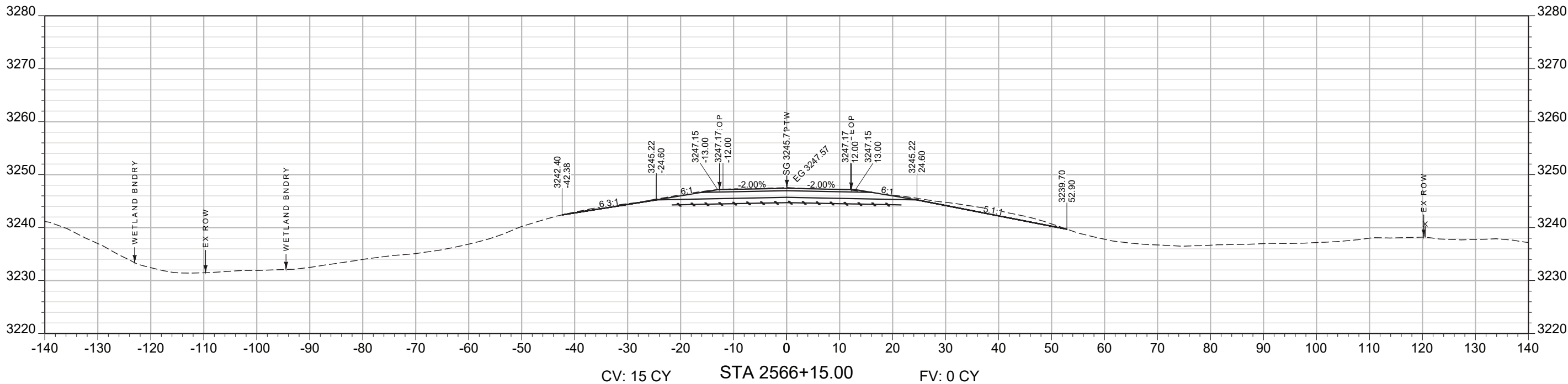
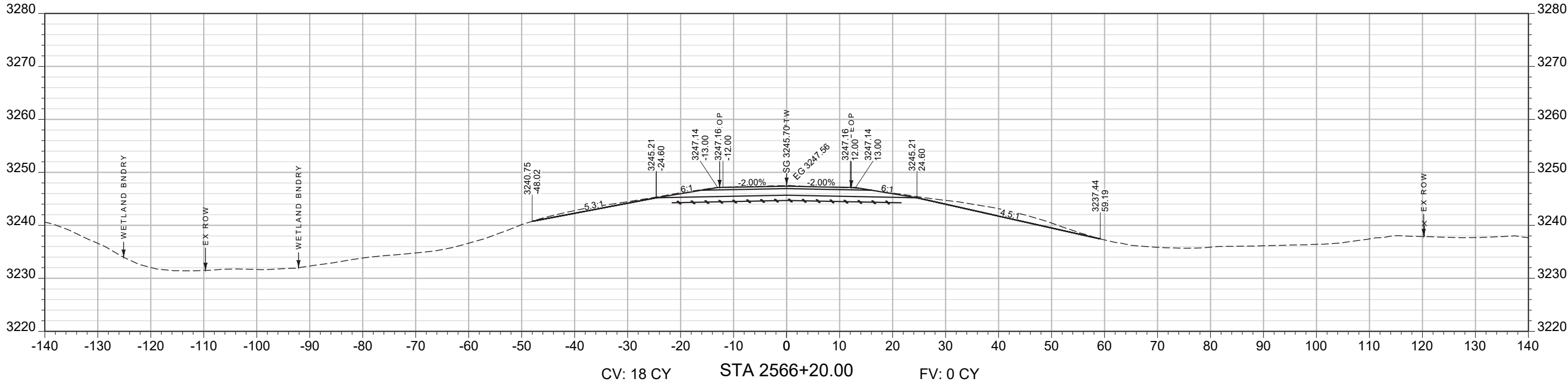
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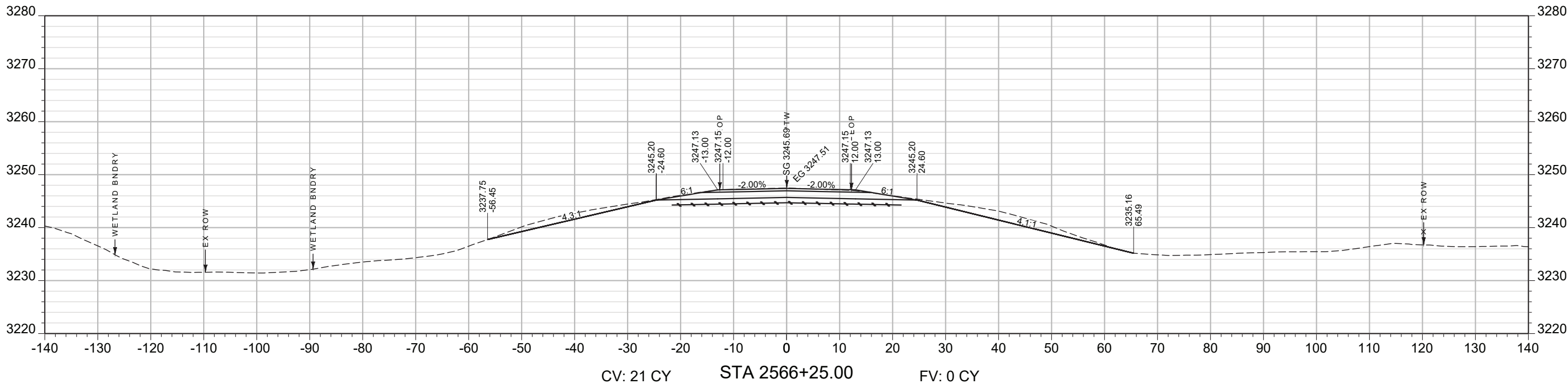
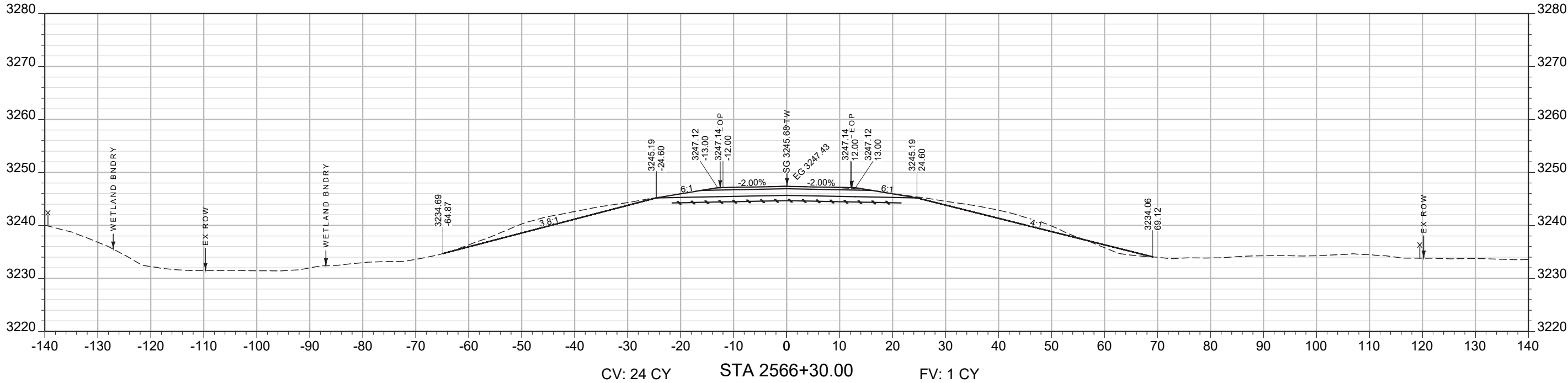
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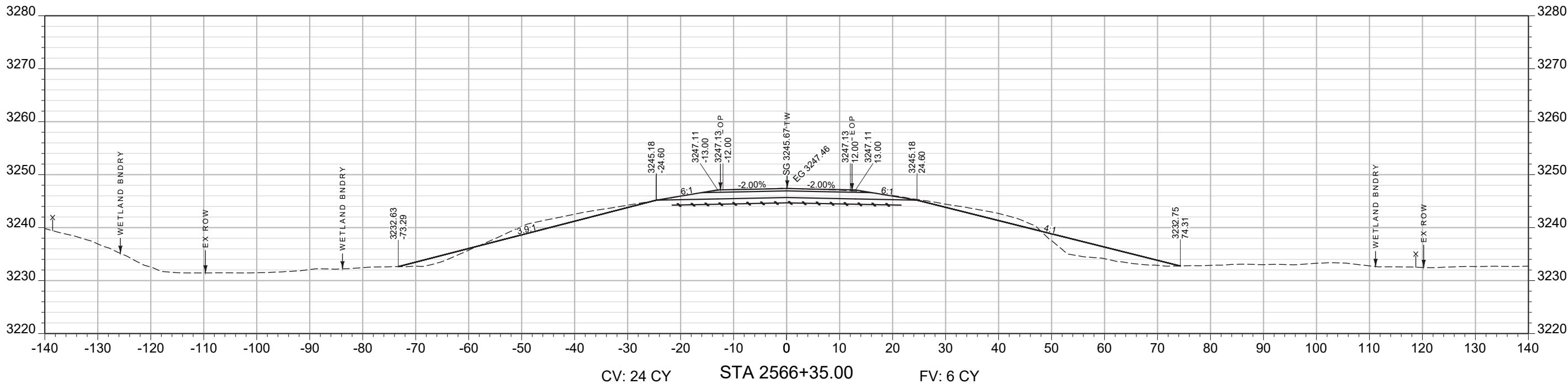
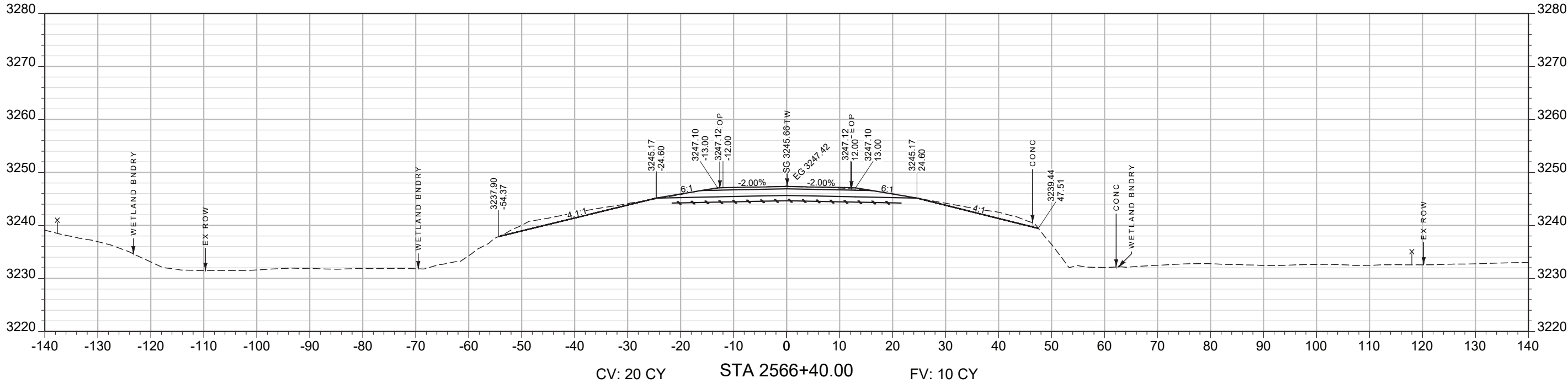
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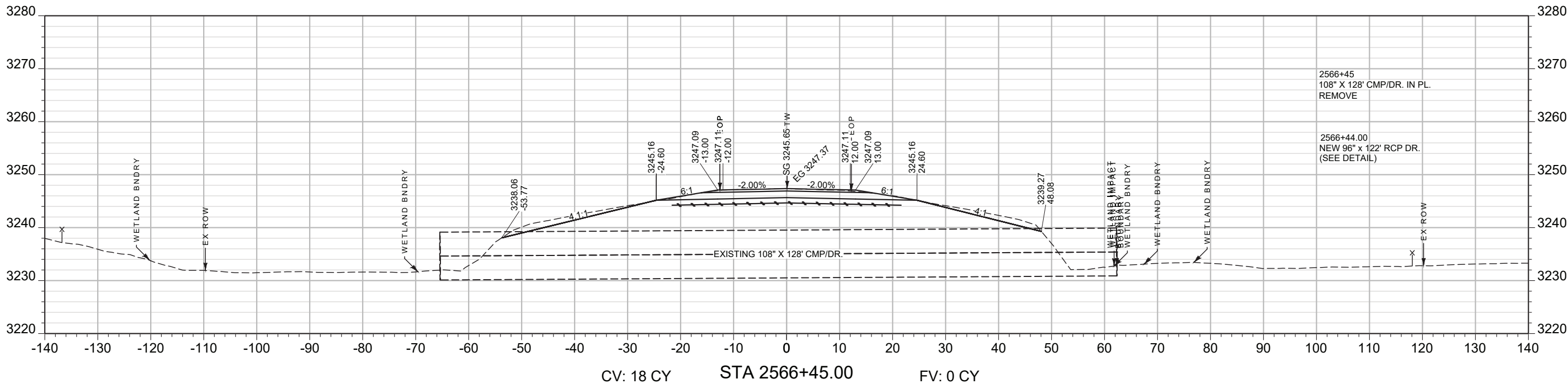
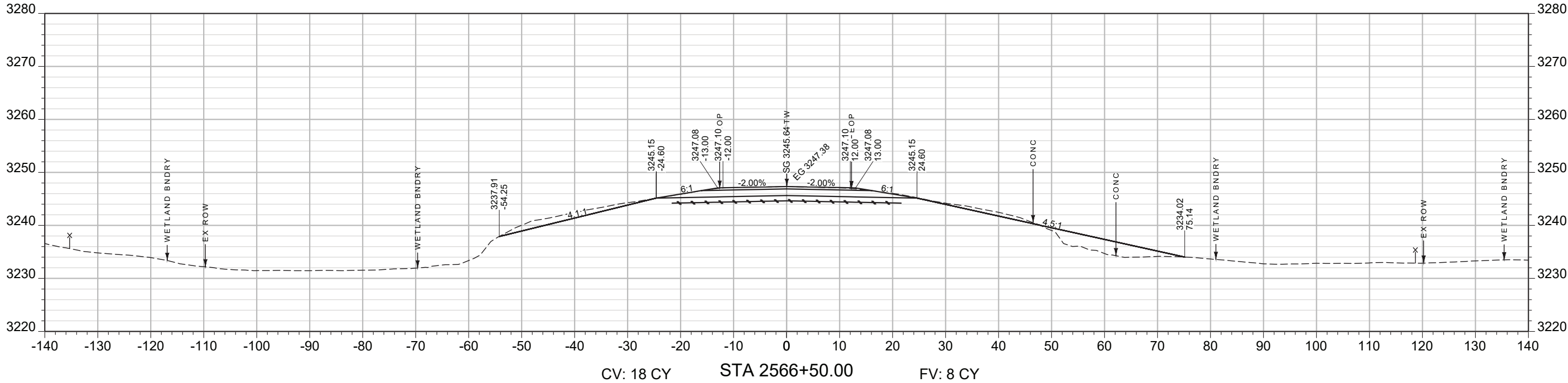
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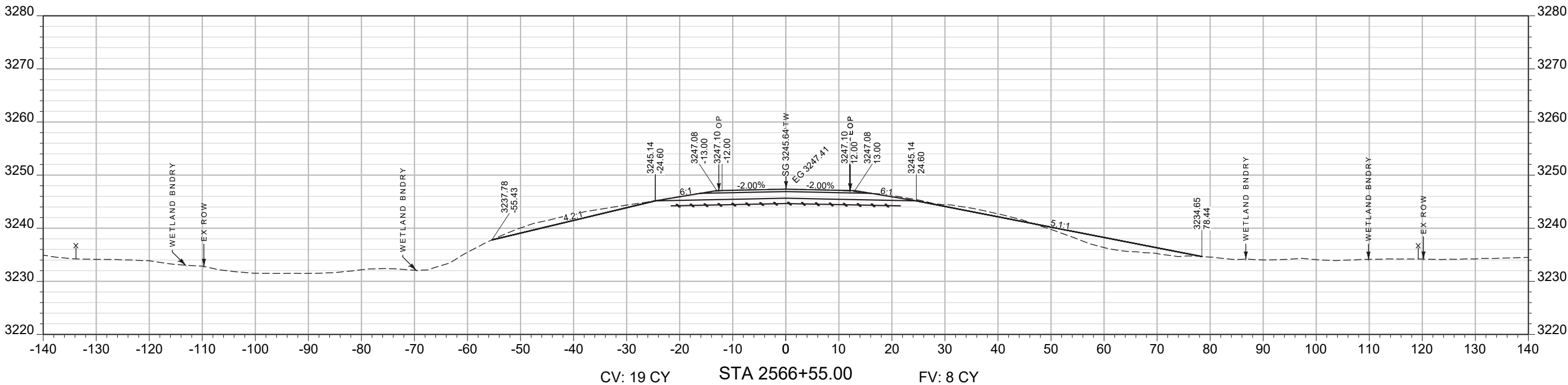
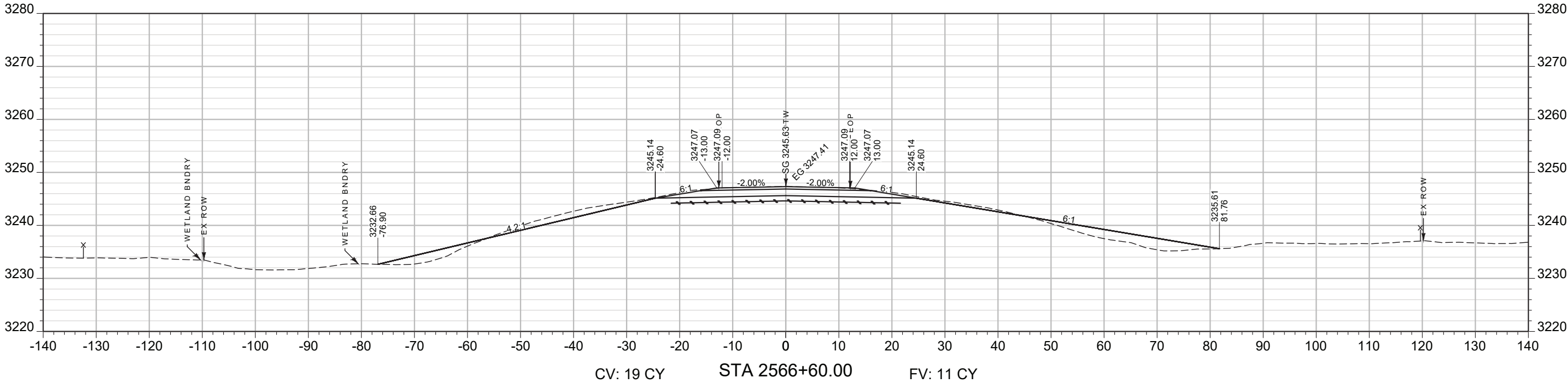
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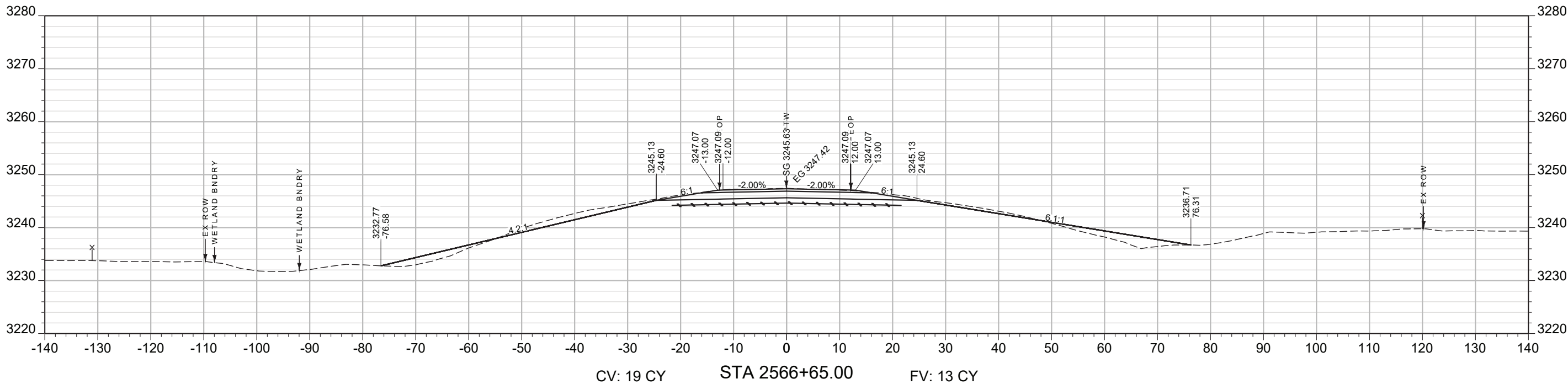
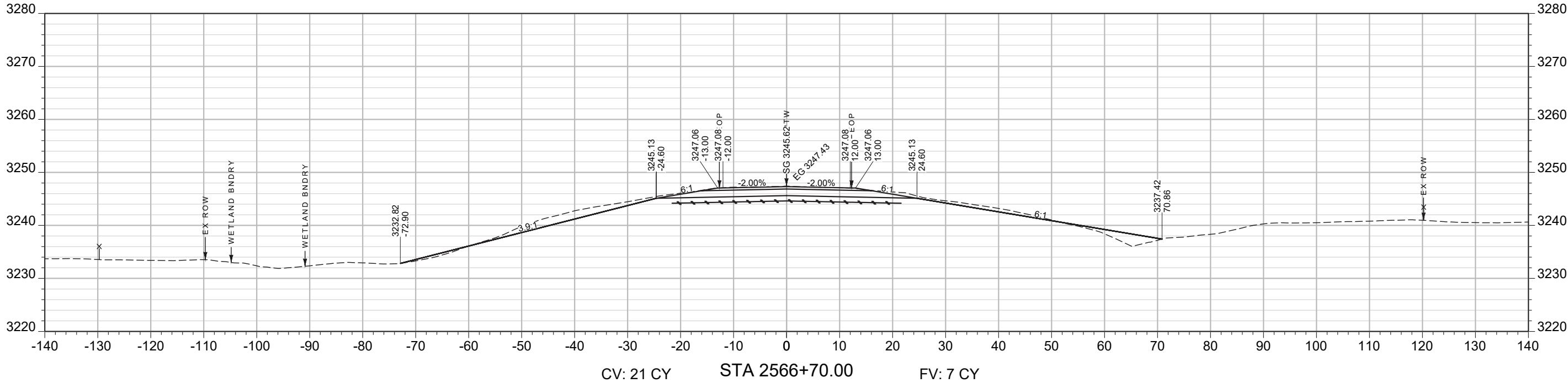
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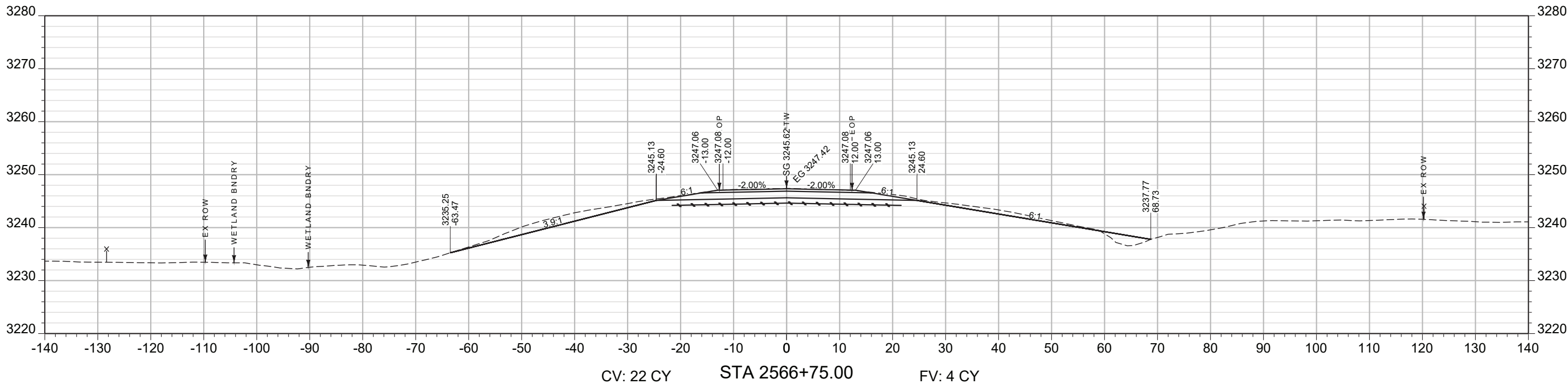
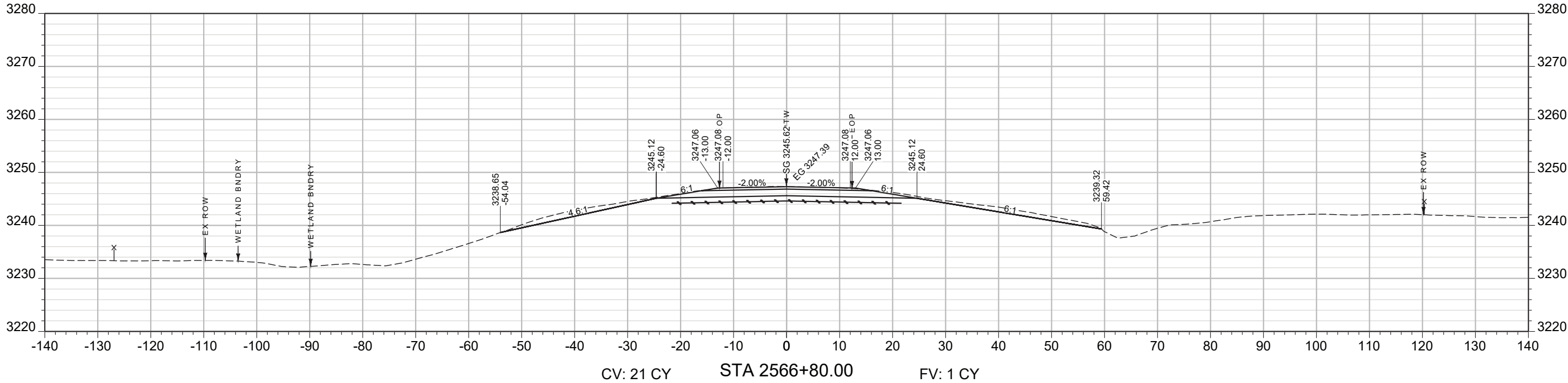
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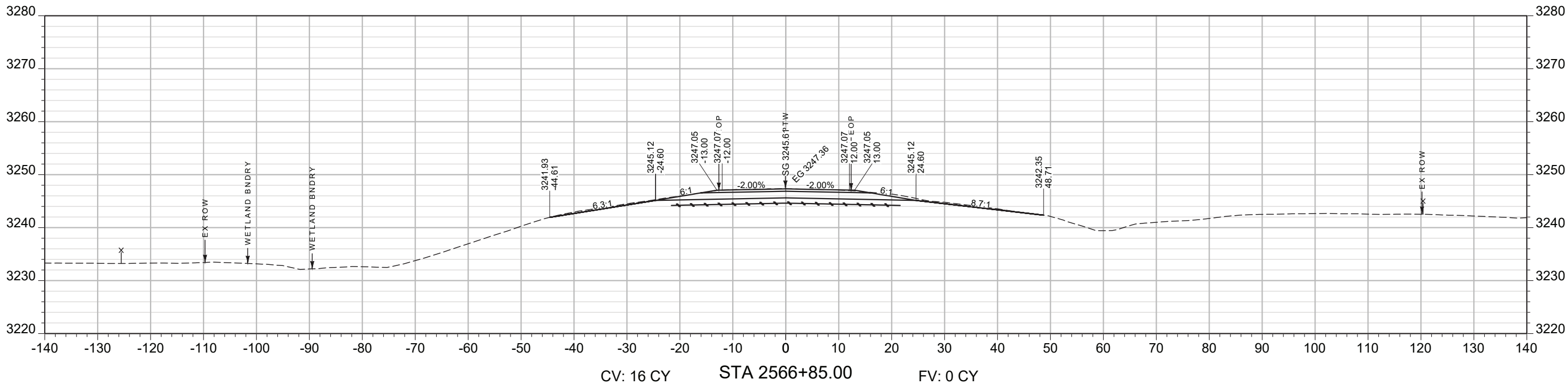
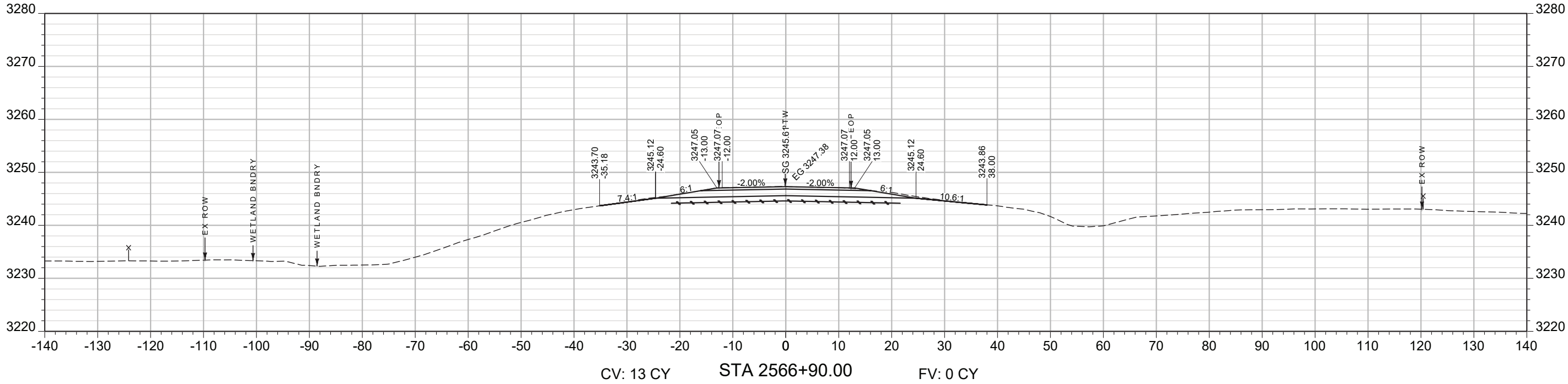
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