

# U-5896 INTERCHANGE AT US 29 AND S MAIN STREET (SR 1009) CROSS-SECTIONS

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Note: Approximate quantities only. ShoulderBorrow, Fine Grading, Clearing and Grubbing, Breaking of Existing Pavement, and Removal of Existing Pavement will be paid for at the contract lump sum price for "Grading."

Note: "Quantities are approximate only. The Resident Engineer will re-cross-section the work accurately when the project is staked out. These cross-section notes will be used in computing the final quantities for which the contractor will be paid."

	SHALLOW UNDERCUT
	UNDERCUT EXCAVATION

6/2/99  
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# STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

<b>PROJ. REFERENCE NO.</b>	<b>SHEET NO.</b>
U-5896	X-1B

Quantities are approximate only. The Resident Engineer will re-cross-section the work accurately when the project is staked out. These cross-section notes will be used in computing the final quantities for which the contractor will be paid.

NOTE: EMBANKMENT COLUMN DOES NOT INCLUDES BACKFILL FOR UNDERCUT

## CROSS-SECTION SUMMARY

Station	Uncl. Exc.	Embt	Station	Uncl. Exc.	Embt	Station	Uncl. Exc.	Embt	Station	Uncl. Exc.	Embt	Station	Uncl. Exc.	Embt	Station	Uncl. Exc.	Embt
L RT	(cu. yd.)	(cu. yd.)	L RT	(cu. yd.)	(cu. yd.)	L LT	(cu. yd.)	(cu. yd.)	L LT	(cu. yd.)	(cu. yd.)	L MED	(cu. yd.)	(cu. yd.)	Y RT	(cu. yd.)	(cu. yd.)
6+40.00	0	0	25+00.00	29	730	7+70.00	0	0	26+50.00	0	337	31+82.00	0	0	14+24.00	0	0
6+50.00	2	0	25+50.00	26	651	8+00.00	3	3	27+00.00	0	222	32+00.00	1	0	14+50.00	23	5
7+00.00	18	0	26+00.00	25	573	8+50.00	11	15	27+50.00	35	144	32+50.00	2	0	15+00.00	52	5
7+50.00	18	1	26+50.00	37	469	9+00.00	12	21	28+00.00	86	75	33+00.00	0	1	15+50.00	56	0
8+00.00	66	6	27+00.00	32	357	9+50.00	13	24	28+50.00	80	30	33+50.00	0	2	16+00.00	45	0
8+50.00	120	14	27+50.00	10	268	10+00.00	11	19	29+00.00	56	10	34+00.00	0	1	16+15.00	11	0
9+00.00	113	30	28+00.00	3	166	10+50.00	7	22	29+50.00	55	2		3	4	187	10	
9+50.00	59	64	28+50.00	5	76	11+00.00	6	25	30+00.00	33	5	<b>Station</b>	<b>Uncl. Exc.</b>	<b>Embt</b>	<b>Station</b>	<b>Uncl. Exc.</b>	<b>Embt</b>
10+00.00	18	111	29+00.00	10	32	11+50.00	6	19	30+50.00	11	30	<b>L MED</b>	<b>(cu. yd.)</b>	<b>(cu. yd.)</b>	<b>Y RT</b>	<b>(cu. yd.)</b>	<b>(cu. yd.)</b>
10+50.00	11	114	29+50.00	19	13	12+00.00	4	17	31+00.00	8	646	34+00.00	0	0	16+15.00	0	0
11+00.00	9	92	30+00.00	27	4	12+50.00	2	18	31+50.00	104	1548	34+50.00	0	4	16+50.00	17	188
11+50.00	12	90	30+50.00	26	0	13+00.00	0	23	32+00.00	111	1216	35+00.00	0	4	17+00.00	15	391
12+00.00	8	97	31+00.00	17	0	13+50.00	0	28	32+08.00	3	92	35+50.00	0	4	17+50.00	34	256
12+50.00	6	103	31+50.00	8	3	14+00.00	0	22		597	7351	36+00.00	0	3	18+00.00	70	0
13+00.00	3	131	31+82.00	4	4	14+50.00	0	19	<b>Station</b>	<b>Uncl. Exc.</b>	<b>Embt</b>	36+50.00	0	1	18+41.00	64	0
13+50.00	6	85		295	3787	15+00.00	1	28	<b>L LT</b>	<b>(cu. yd.)</b>	<b>(cu. yd.)</b>	37+00.00	2	0		200	835
14+00.00	46	6	<b>Station</b>	<b>Uncl. Exc.</b>	<b>Embt</b>		76	303	32+08.00	0	0	37+50.00	5	0	<b>Station</b>	<b>Uncl. Exc.</b>	<b>Embt</b>
14+50.00	164	5	<b>L RT</b>	<b>(cu. yd.)</b>	<b>(cu. yd.)</b>	<b>Station</b>	<b>Uncl. Exc.</b>	<b>Embt</b>	32+50.00	75	62	38+00.00	7	0	<b>Y RT</b>	<b>(cu. yd.)</b>	<b>(cu. yd.)</b>
15+00.00	351	9				<b>L LT</b>	<b>(cu. yd.)</b>	<b>(cu. yd.)</b>	33+00.00	91	55	38+50.00	11	0			
	1030	958	31+82.00	0	0				33+50.00	94	35	39+00.00	13	0	18+41.00	0	0
<b>Station</b>	<b>Uncl. Exc.</b>	<b>Embt</b>	32+00.00	0	5	15+00.00	0	0	34+00.00	93	24	39+50.00	18	0	18+50.00	13	0
<b>L RT</b>	<b>(cu. yd.)</b>	<b>(cu. yd.)</b>	32+50.00	0	19	15+50.00	3	37	34+50.00	46	11	40+00.00	23	0	19+00.00	63	0
15+00.00	0	0	33+00.00	0	30	16+00.00	24	20	35+00.00	37	12	40+50.00	22	0	19+50.00	46	2
15+50.00	538	10	33+50.00	0	39	16+50.00	120	5	35+50.00	71	23	41+00.00	19	0	20+00.00	33	4
16+00.00	797	5	34+00.00	97	96	17+00.00	241	6	36+00.00	71	32	41+50.00	16	0	20+50.00	31	2
16+27.00	526	1	34+50.00	256	117	17+50.00	186	25	36+50.00	57	32	42+00.00	12	0	21+00.00	65	0
	1861	16	35+00.00	432	82	17+78.00	49	27	37+00.00	48	36	42+50.00	10	1	21+50.00	86	0
<b>Station</b>	<b>Uncl. Exc.</b>	<b>Embt</b>	35+47.00	514	77		623	120	37+50.00	46	33	43+00.00	9	2	22+00.00	75	0
<b>L RT</b>	<b>(cu. yd.)</b>	<b>(cu. yd.)</b>	<b>Station</b>	<b>Uncl. Exc.</b>	<b>Embt</b>	<b>Station</b>	<b>Uncl. Exc.</b>	<b>Embt</b>	38+00.00	34	24	43+50.00	9	2	22+50.00	43	6
16+27.00	0	0	<b>L RT</b>	<b>(cu. yd.)</b>	<b>(cu. yd.)</b>	<b>L LT</b>	<b>(cu. yd.)</b>	<b>(cu. yd.)</b>	38+50.00	19	34	44+00.00	7	1	23+00.00	8	7
16+50.00	586	0				17+78.00	0	0	39+00.00	8	33	44+25.00	1	0	23+50.00	7	3
17+00.00	641	1	35+47.00	0	0	18+00.00	43	511	39+50.00	6	14		184	22	24+00.00	6	4
17+50.00	9	1	35+50.00	43	3	18+50.00	49	582	40+00.00	12	4	<b>Station</b>	<b>Uncl. Exc.</b>	<b>Embt</b>	24+50.00	20	3
18+00.00	24	0	36+00.00	671	45	19+00.00	0	6	40+50.00	19	0	<b>Y RT</b>	<b>(cu. yd.)</b>	<b>(cu. yd.)</b>	24+75.00	20	0
18+50.00	35	1	36+50.00	581	25	19+50.00	0	14	41+00.00	20	0				25+00.00	11	0
19+00.00	40	7	37+00.00	457	14	20+00.00	0	62	41+25.00	5	0		852	464	25+50.00	83	0
19+50.00	58	29	37+50.00	448	14	20+50.00	0	174				<b>Station</b>	<b>Uncl. Exc.</b>	<b>Embt</b>	25+75.00	118	0
20+00.00	69	100	38+00.00	406	18	21+00.00	0	390	<b>L MED</b>	<b>(cu. yd.)</b>	<b>(cu. yd.)</b>	11+00.00	1	13	25+85.00	31	0
20+50.00	69	219	38+50.00	167	38	21+50.00	0	681	10+75.00	0	0	11+50.00	4	21			
21+00.00	64	360	39+00.00	46	37	22+00.00	0	951	11+00.00	3	0	12+00.00	11	7		759	31
21+50.00	54	519	39+50.00	101	15	22+50.00	0	1154	12+00.00	6	0	12+50.00	15	2	<b>Station</b>	<b>Uncl. Exc.</b>	<b>Embt</b>
22+00.00	40	666	40+00.00	185	15	23+00.00	3	1384	12+50.00	4	0	12+88.00	10	3	<b>Y LT</b>	<b>(cu. yd.)</b>	<b>(cu. yd.)</b>
22+50.00	26	773	40+50.00	257	19	23+05.37	1	165	12+50.00	4	0		41	46	10+55.00	0	0
23+00.00	20	1555	41+00.00	343	19		96	6074	13+00.00	1	1	<b>Station</b>	<b>Uncl. Exc.</b>	<b>Embt</b>	11+00.00	0	1
23+04.37	2	201	41+50.00	390	16	<b>Station</b>	<b>Uncl. Exc.</b>	<b>Embt</b>	13+50.00	0	3	<b>Y RT</b>	<b>(cu. yd.)</b>	<b>(cu. yd.)</b>	11+50.00	12	1
	1737	4432	42+00.00	369	14				14+00.00	0	4				12+00.00	15	3
<b>Station</b>	<b>Uncl. Exc.</b>	<b>Embt</b>	42+50.00	309	11	<b>L LT</b>	<b>(cu. yd.)</b>	<b>(cu. yd.)</b>	14+50.00	0	4	13+00.00	8	0	12+50.00	5	13
<b>L RT</b>	<b>(cu. yd.)</b>	<b>(cu. yd.)</b>	43+00.00	219	8	24+21.37	0	0	15+00.00	0	3	13+50.00	65	1	12+71.00	2	9
24+21.37	0	0	43+50.00	149	7	24+50.00	8	627	15+50.00	0	1	14+00.00	72	2		34	27
24+50.00	17	441	44+00.00	138	12	25+00.00	7	994	16+00.00	0	0	14+24.00	24	2			
			44+25.00	35	4	25+50.00	0	808	16+27.00	0	0		169	5			
				5314	334	26+00.00	0	565		23	16						

Approximate quantities only. Shoulder borrow, fine grading, clearing and grubbing, breaking of existing pavement and removal of existing pavement will be paid for at the lump sum price for "Grading".

# STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

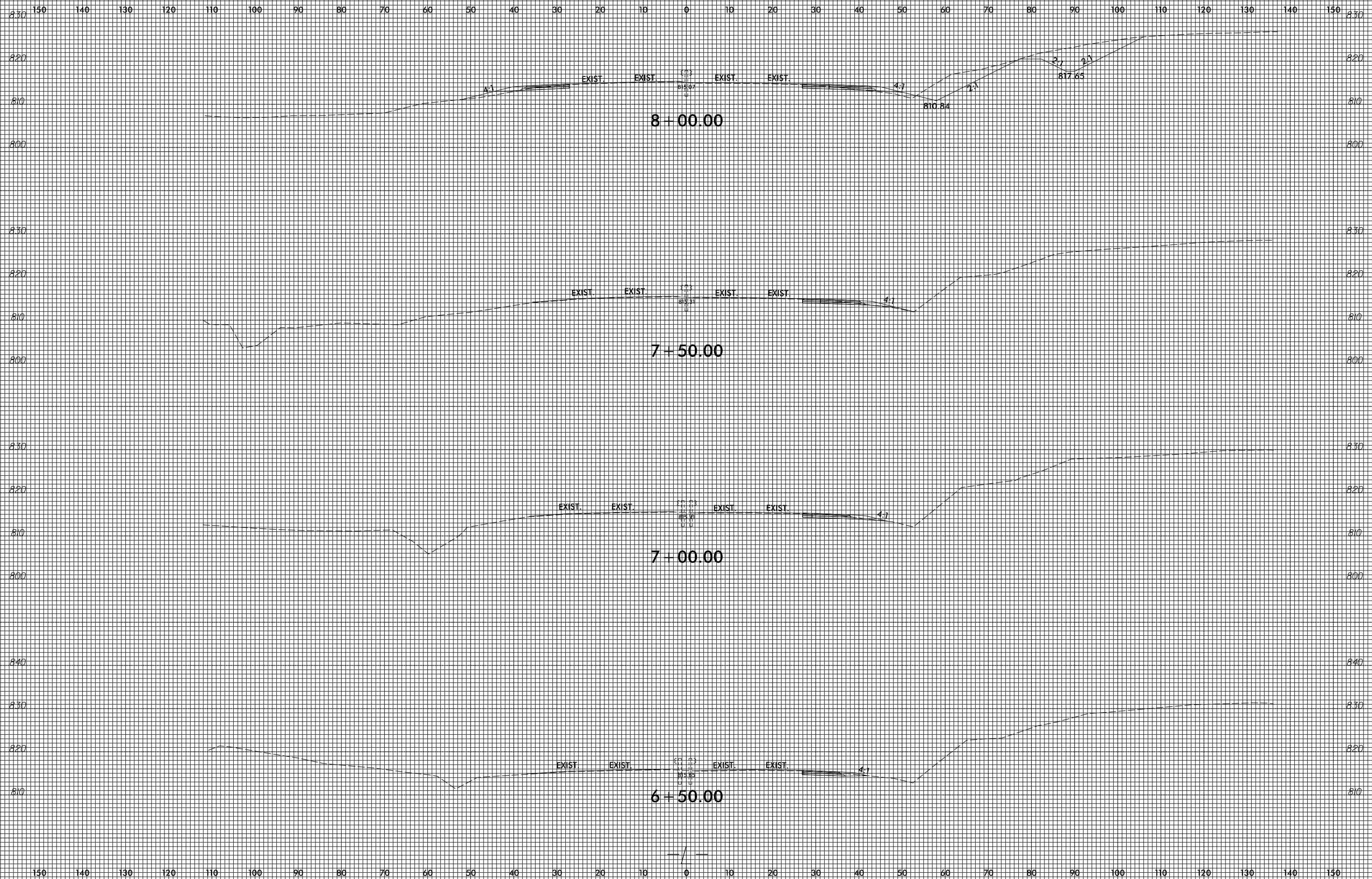
<b>PROJ. REFERENCE NO.</b> U-5896	<b>SHEET NO.</b> X-1C
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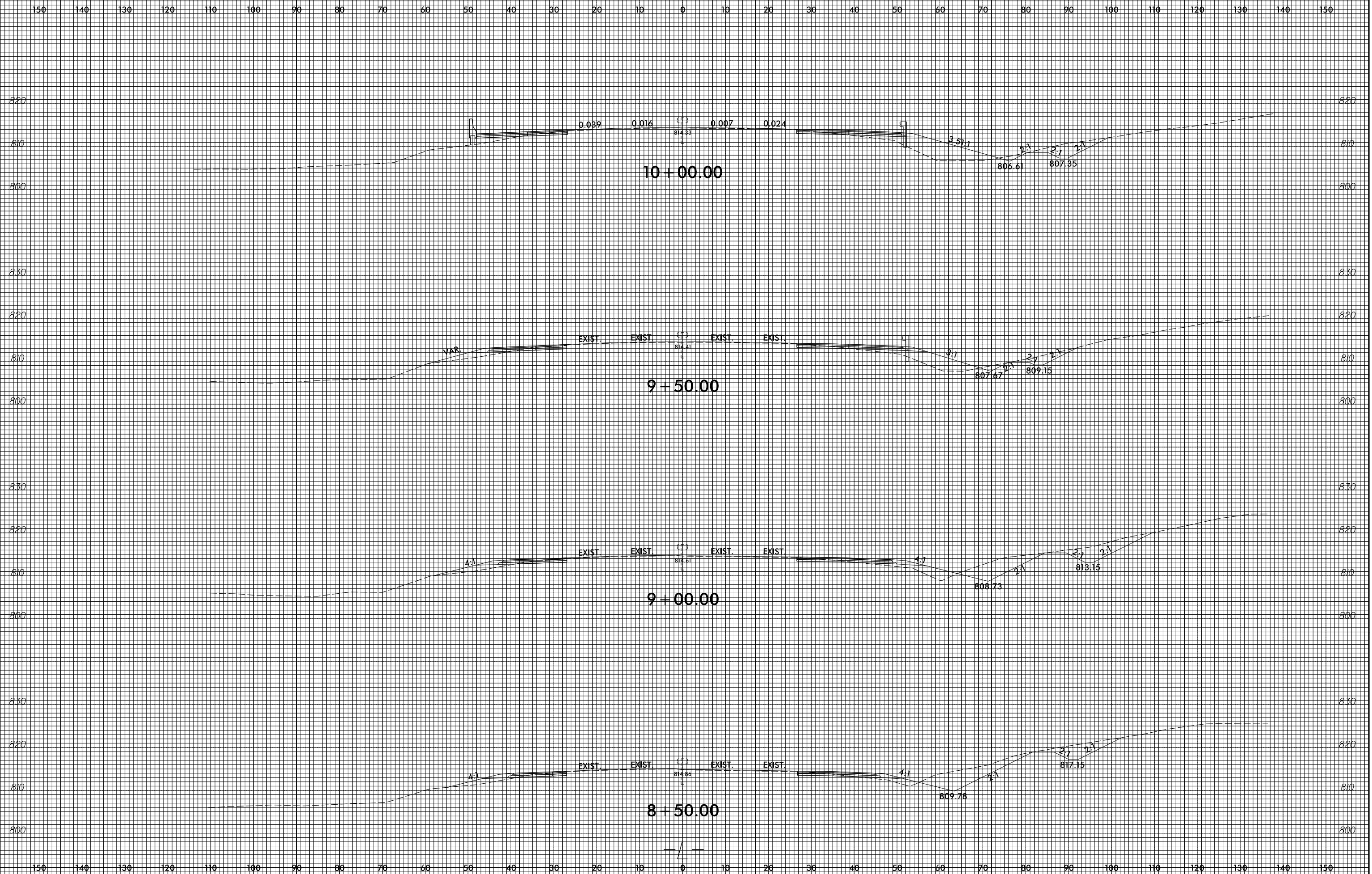
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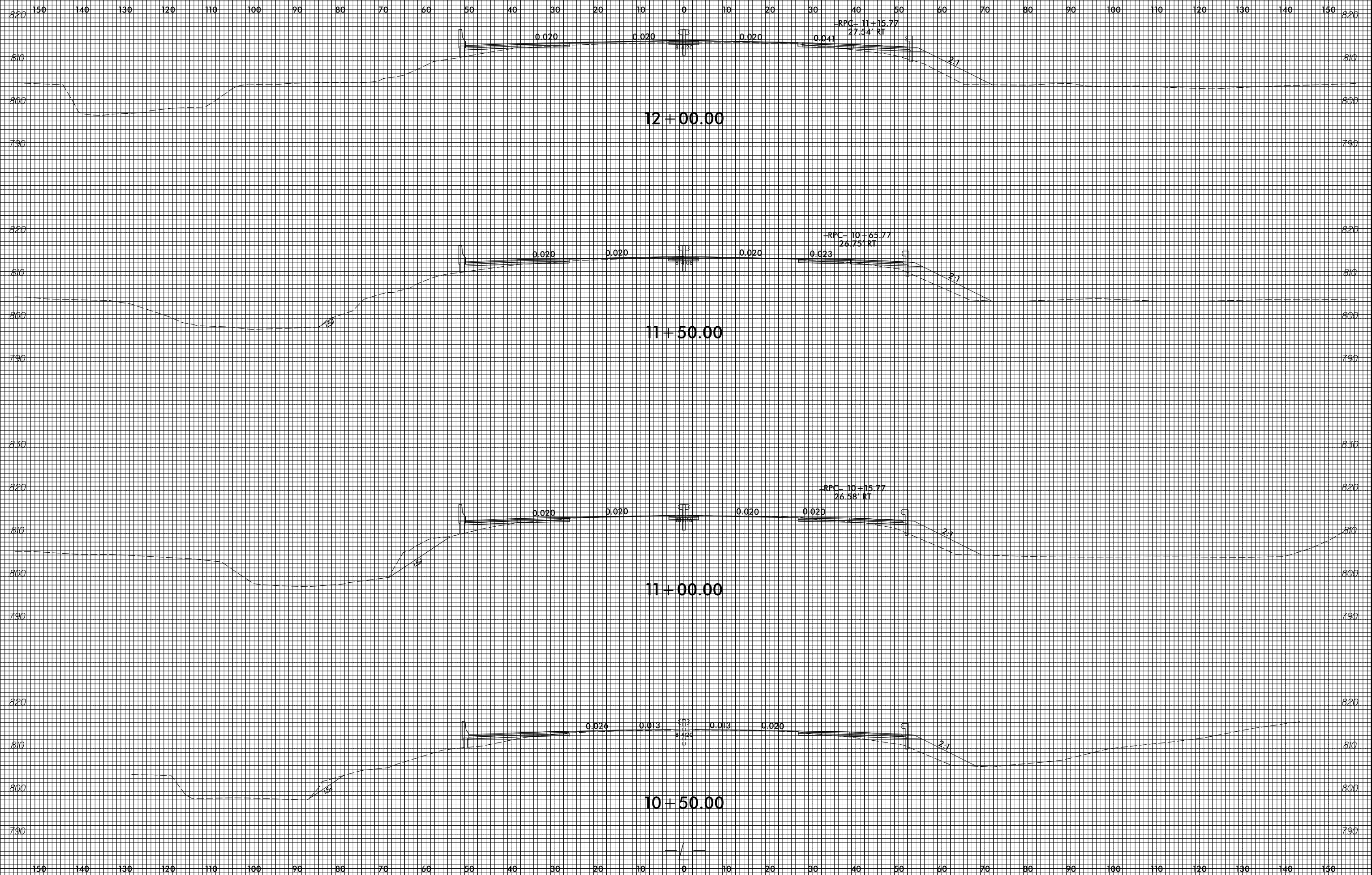
NOTE: EMBANKMENT COLUMN DOES NOT INCLUDES BACKFILL FOR UNDERCUT

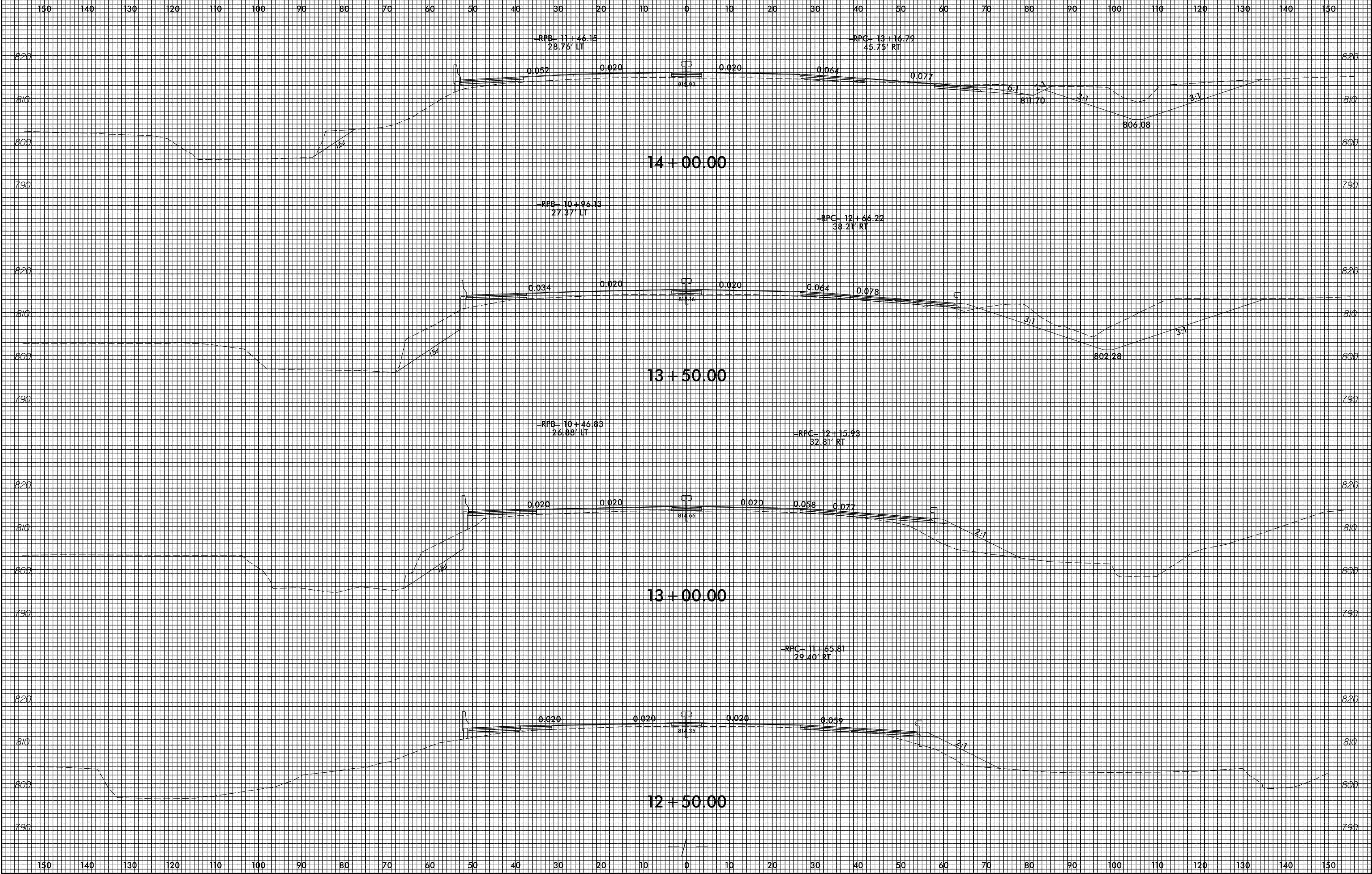
## CROSS-SECTION SUMMARY

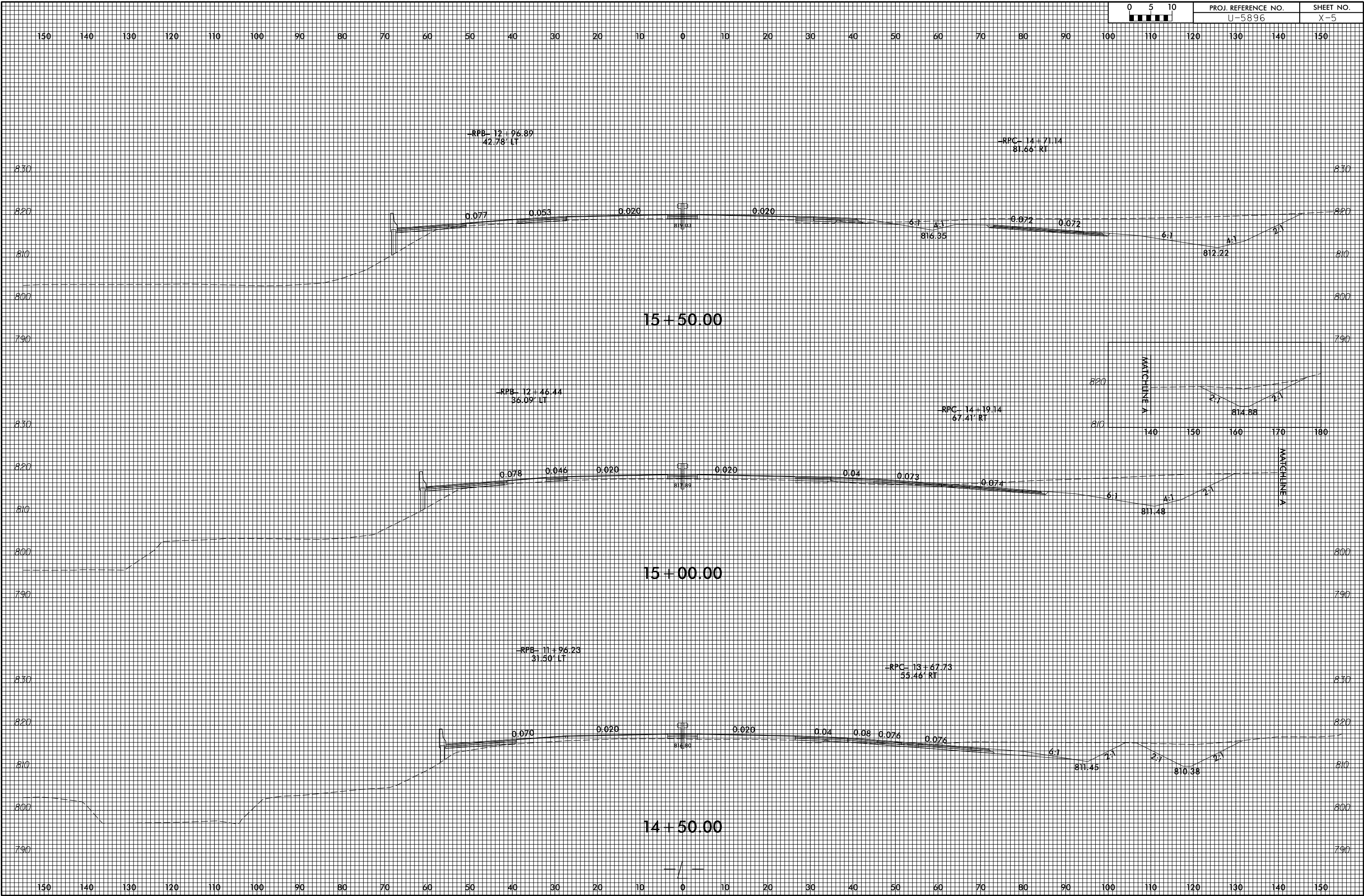
Station	Uncl. Exc.	Embt	Station	Uncl. Exc.	Embt	Station	Uncl. Exc.	Embt	Undercut	Station -RPB- (-DETRPB-)	Uncl. Exc.	Embt	Station -L- (-DET-)	Uncl. Exc.	Embt
Y LT	(cu. yd.)	(cu. yd.)	RPA	(cu. yd.)	(cu. yd.)	RPD	(cu. yd.)	(cu. yd.)	(cu. yd.)	(-DET-)	(cu. yd.)	(cu. yd.)	(-DET-)	(cu. yd.)	(cu. yd.)
12+71.00	0	0	23+00.00	219	0	16+00.00	0	0	0	18+50.00	59	66	33+50.00	7	1
13+00.00	0	31	23+50.00	98	16	16+50.00	741	0	101	19+00.00	52	174	34+00.00	6	2
13+08.00	0	9	23+68.33	16	12	17+00.00	1131	0	205	19+50.00	18	215	34+50.00	6	1
	0	40		34764	28	17+50.00	1431	0	103	20+00.00	4	77	35+00.00	6	0
Station	Uncl. Exc.	Embt	Station	Uncl. Exc.	Embt	18+00.00	1510	0	0	20+50.00	44	6	35+50.00	6	0
Y LT	(cu. yd.)	(cu. yd.)	RPB	(cu. yd.)	(cu. yd.)	18+50.00	1697	0	0	21+00.00	144	0	35+57.20	1	0
13+08.00	0	0	16+00.00	0	0	19+00.00	1881	0	0	21+13.31	56	0		2015	5519
13+50.00	23	0	16+50.00	17	622	19+50.00	1810	0	0		453	1264	Station	Uncl. Exc.	Embt
14+00.00	26	3	17+00.00	46	356	20+00.00	1752	0	0	Station	Uncl. Exc.	Embt	-L- (-DET-XOVER-)	(cu. yd.)	(cu. yd.)
14+50.00	23	6	17+50.00	219	231	20+50.00	1623	0	0	-L- (-DET-)	(cu. yd.)	(cu. yd.)	15+14.97	0	0
15+00.00	95	4	18+00.00	338	169	21+00.00	1946	0	0				15+50.00	4	0
15+50.00	133	0	18+50.00	240	158	21+50.00	2484	0	0	14+05.81	0	0	16+00.00	10	0
16+00.00	103	0	19+00.00	94	104	22+00.00	2590	0	0	14+50.00	2	0	16+50.00	11	0
16+50.00	102	601	19+50.00	26	56	22+50.00	2523	0	0	15+00.00	6	0	17+00.00	12	0
17+00.00	89	1032	20+00.00	10	73	23+00.00	2459	0	0	15+50.00	6	0	17+50.00	9	0
17+50.00	117	743	20+50.00	2	65	23+50.00	2021	0	0	16+00.00	9	0	18+00.00	7	0
18+00.00	122	311	20+98.86	2	51	24+00.00	1483	0	0	16+50.00	9	2	18+50.00	6	0
18+50.00	84	0		994	1885	24+50.00	894	0	0	17+00.00	10	3	19+00.00	6	0
19+00.00	67	0	Station	Uncl. Exc.	Embt	25+00.00	338	0	0	17+50.00	11	6	19+50.00	6	0
19+50.00	56	0	RPC	(cu. yd.)	(cu. yd.)	25+50.00	264	0	0	18+00.00	7	23	20+00.00	6	8
20+00.00	44	2				25+75.57	137	0	0	18+50.00	22	63	20+50.00	6	18
20+50.00	44	2	Station	Uncl. Exc.	Embt		30715	0	409	19+00.00	40	90	21+00.00	8	19
21+00.00	64	0	16+00.00	0	0	DR1	(cu. yd.)	(cu. yd.)		19+50.00	48	104	21+50.00	9	17
21+50.00	76	0	16+50.00	1201	0					20+00.00	64	121	22+00.00	9	8
22+00.00	67	0	Station	Uncl. Exc.	Embt	10+80.00	0	0	0	20+50.00	55	141	22+50.00	14	1
22+50.00	27	11	RPC	(cu. yd.)	(cu. yd.)	11+08.68	4	0	0	21+00.00	31	362	22+54.24	2	0
23+00.00	16	31				11+57.83	15	1	1	21+50.00	12	725		125	71
23+50.00	22	35	16+50.00	0	0	12+07.76	36	1	1	22+00.00	0	1105	Station	Uncl. Exc.	Embt
24+00.00	8	20	17+00.00	1147	0	12+58.34	53	5	5	22+50.00	0	1506	-L- (-DET-XOVER-)	(cu. yd.)	(cu. yd.)
24+50.00	6	6	17+50.00	949	0	13+08.04	40	22		22+95.82	0	1543			
24+75.00	5	0	18+00.00	1208	0	13+49.85	16	38					24+69.24	0	0
25+00.00	5	0	18+50.00	1684	0	14+00.00	10	29		Station	Uncl. Exc.	Embt	25+00.00	8	0
25+50.00	13	0	19+00.00	1918	0	14+25.00	3	0		-L- (-DET-)	(cu. yd.)	(cu. yd.)	25+50.00	12	2
25+75.00	6	0	19+50.00	2084	0								26+00.00	9	7
25+85.00	1	0	20+00.00	2188	0					24+45.82	0	0	26+50.00	7	11
	1444	2807	20+50.00	2495	0	Station	Uncl. Exc.	Embt		24+50.00	0	176	27+00.00	7	12
Station	Uncl. Exc.	Embt	20+95.00	2468	0	Y1	(cu. yd.)	(cu. yd.)		25+00.00	0	1958	27+50.00	6	14
RPA	(cu. yd.)	(cu. yd.)		16141	0					25+50.00	0	1719	28+00.00	5	7
16+50.00	0	0	Station	Uncl. Exc.	Embt	13+90.00	0	0		26+00.00	0	1094	28+50.00	4	0
17+00.00	2569	0	RPC	(cu. yd.)	(cu. yd.)	14+00.00	0	0		26+50.00	16	380	29+00.00	4	0
17+50.00	3230	0				14+50.00	16	1		27+00.00	167	103	29+50.00	6	0
18+00.00	3867	0	20+95.00	0	0	15+00.00	92	7		27+50.00	519	6	30+00.00	7	0
18+50.00	4433	0	21+00.00	294	0	15+16.74	52	5		28+00.00	642	7	30+50.00	6	0
19+00.00	4331	0	21+50.00	2920	0					28+50.00	373	10	31+00.00	6	0
19+50.00	3973	0	22+00.00	2406	0	Station	Uncl. Exc.	Embt		29+00.00	134	16	31+50.00	6	0
20+00.00	3524	0	22+50.00	1228	0	-RPB- (-DETRPB-)	(cu. yd.)	(cu. yd.)		29+50.00	50	20	32+00.00	6	0
20+50.00	2802	0	23+00.00	350	0					30+00.00	21	14	32+50.00	7	0
21+00.00	2109	0	23+50.00	206	0	15+98.28	0	0		30+50.00	11	6	33+00.00	7	0
21+50.00	1694	0	23+72.96	116	0	16+00.00	0	4		31+00.00	8	3	33+29.55	2	0
22+00.00	1274	0		7520	0	16+50.00	9	317		31+50.00	6	2		115	53
22+50.00	625	0				17+00.00	12	218		32+00.00	10	1			
						17+50.00	19	80		32+50.00	14	0			
						18+00.00	36	107		33+00.00	12	0			



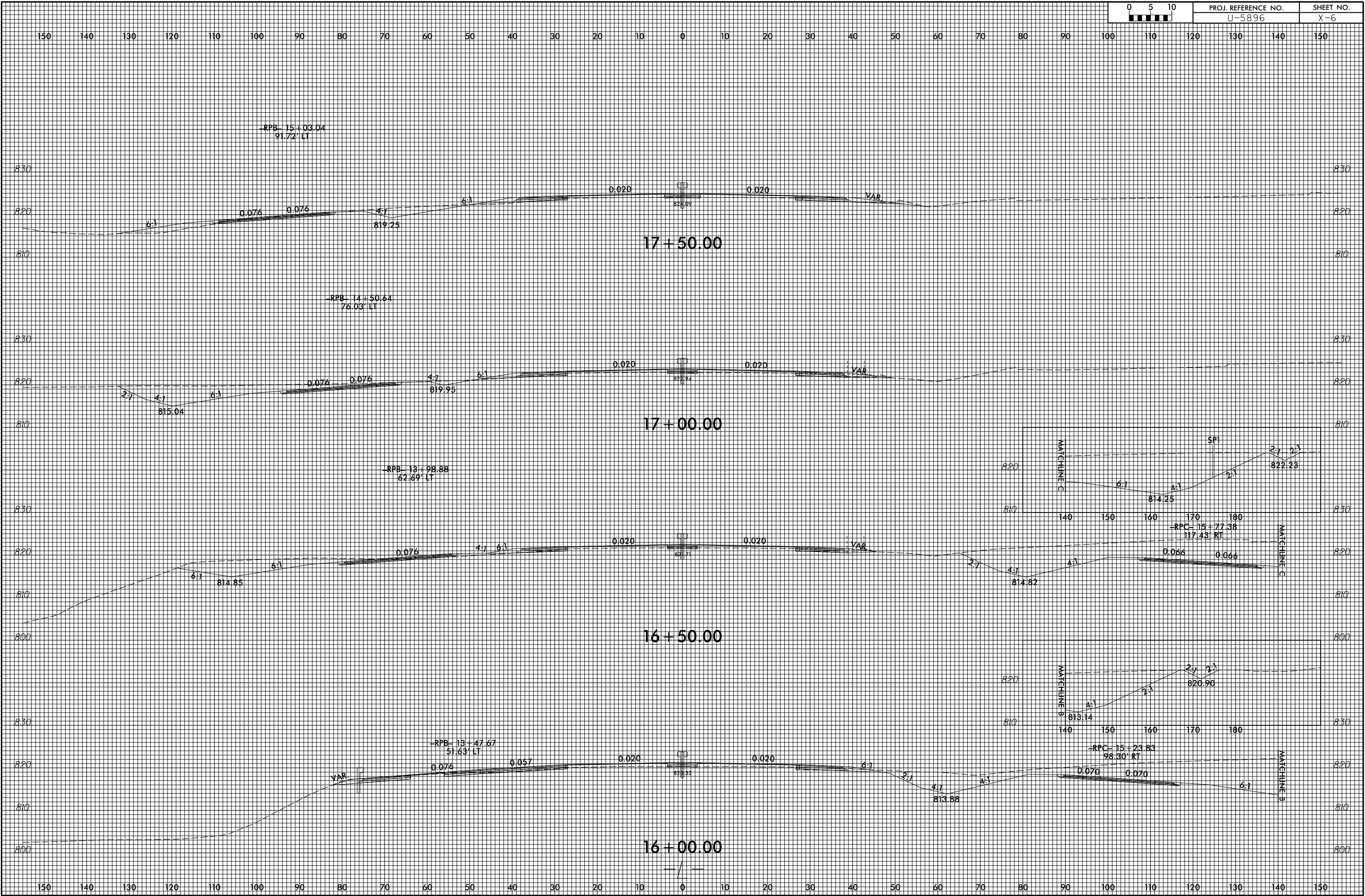


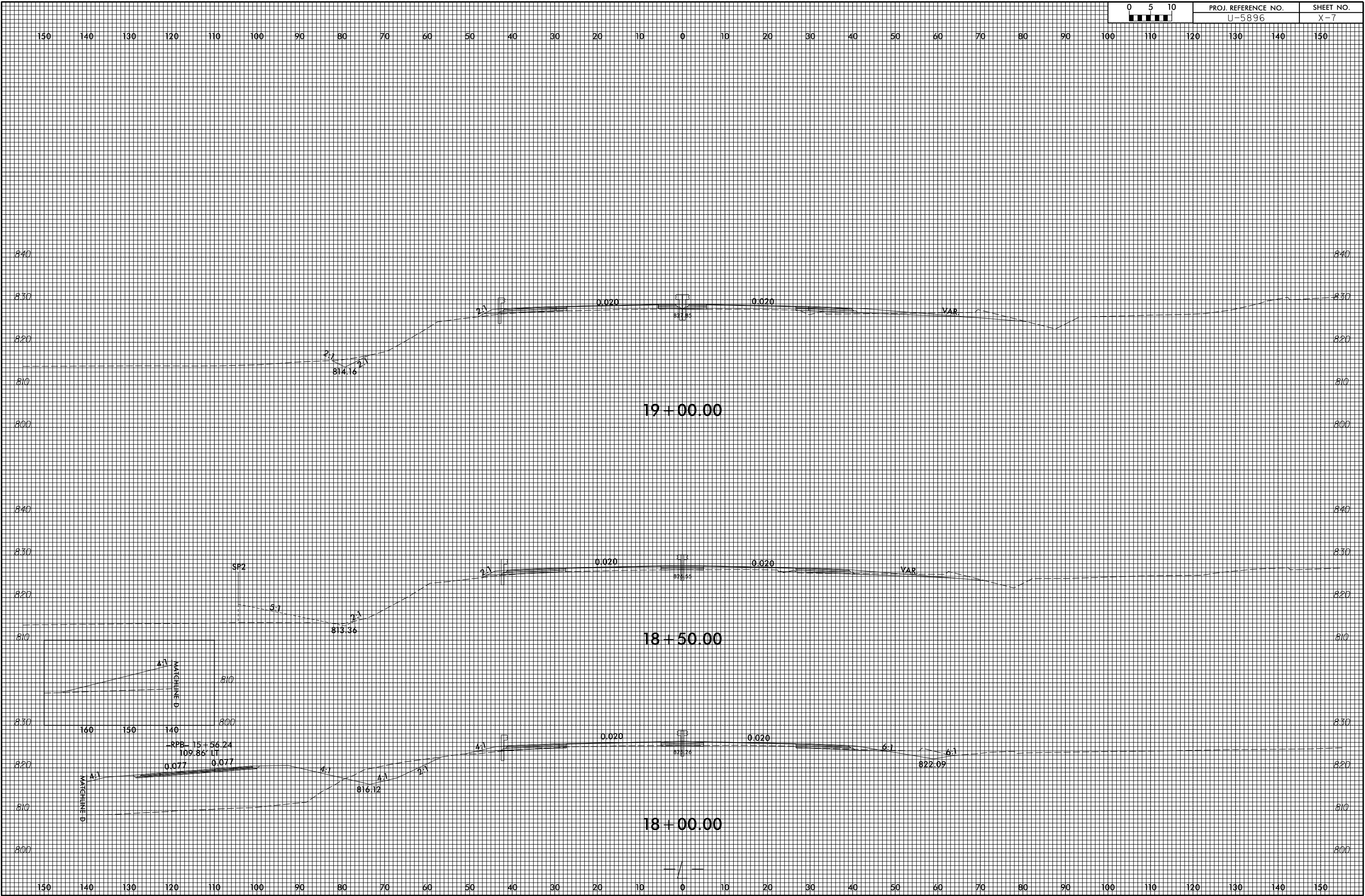


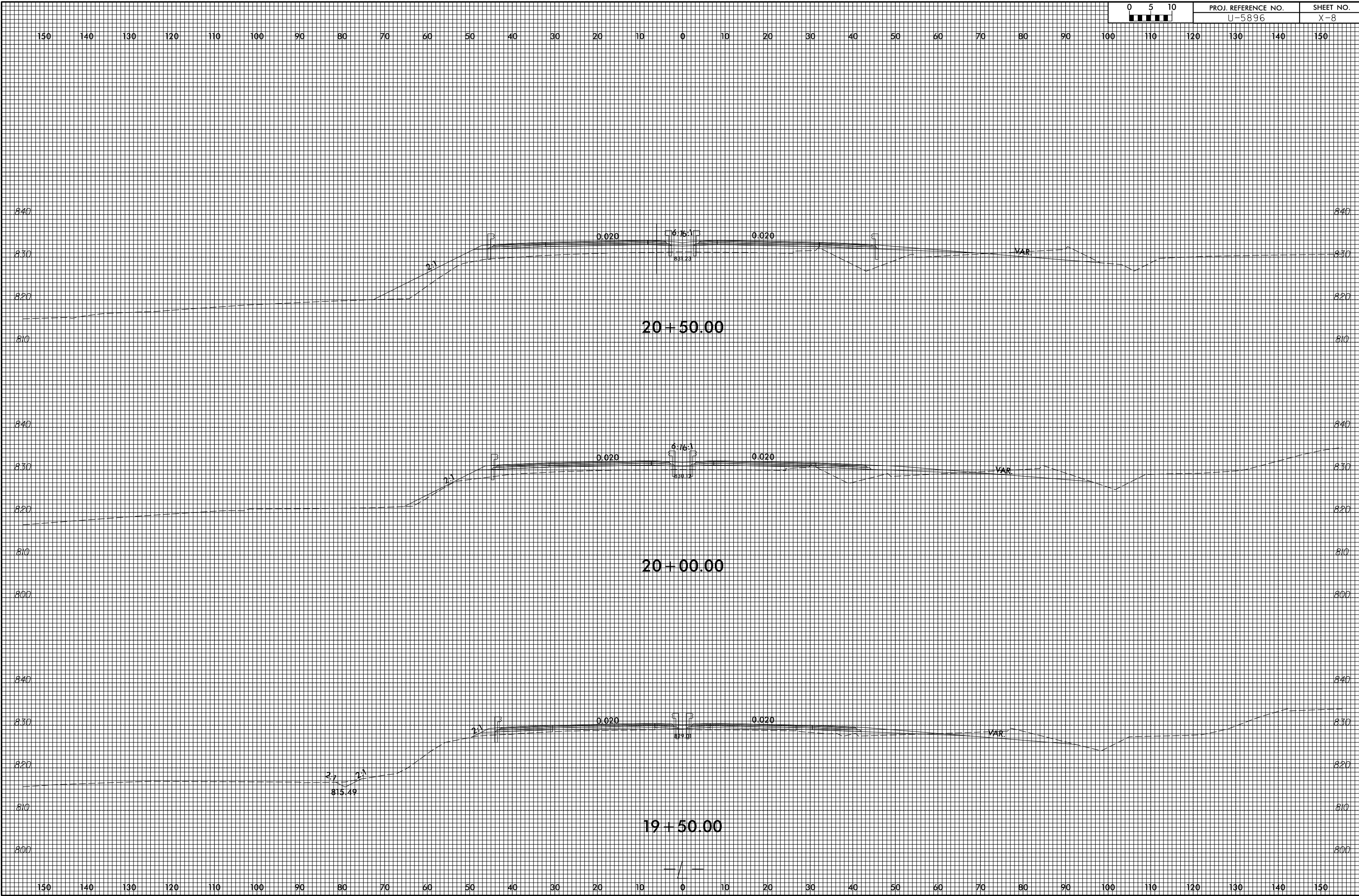


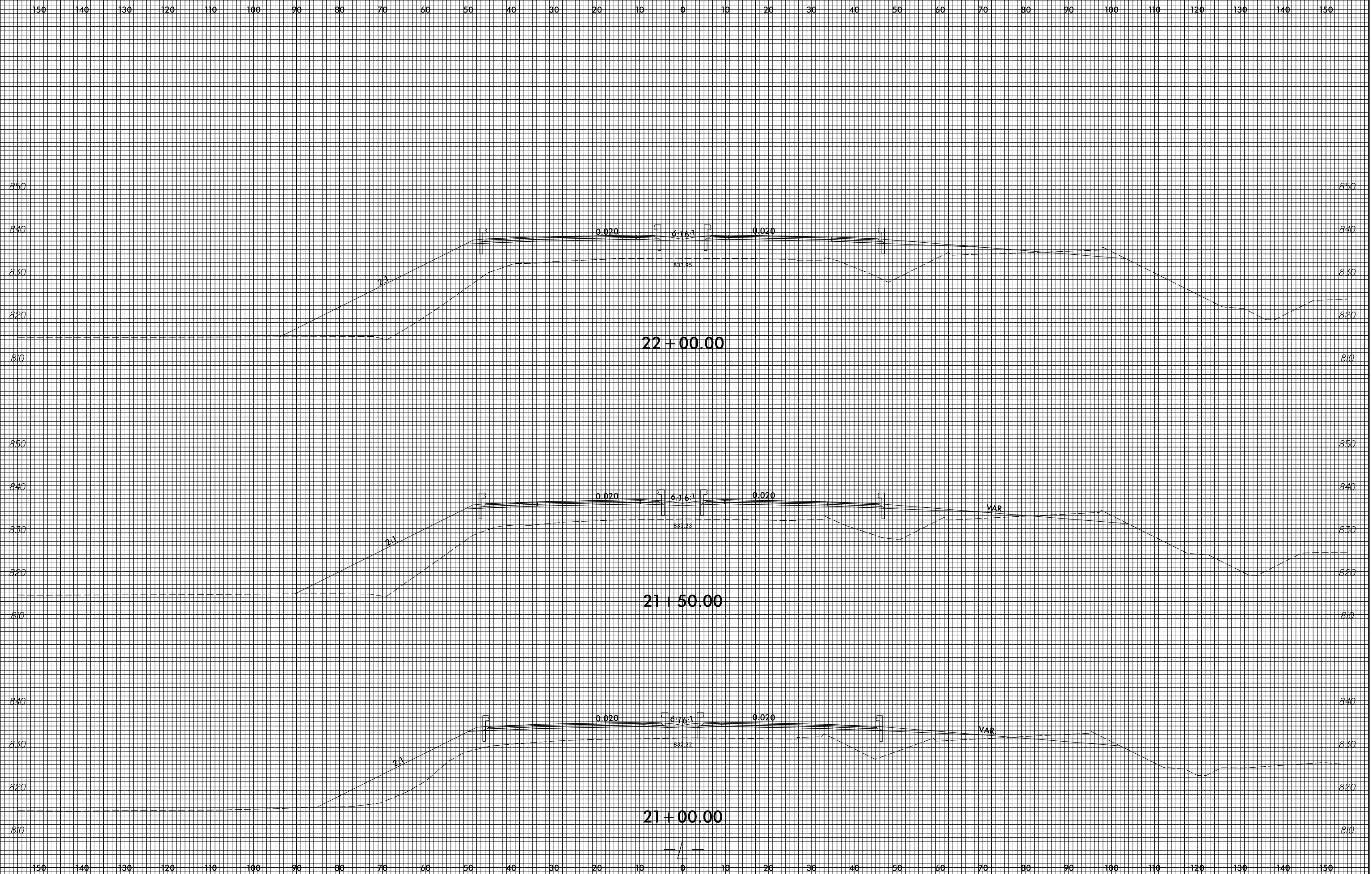


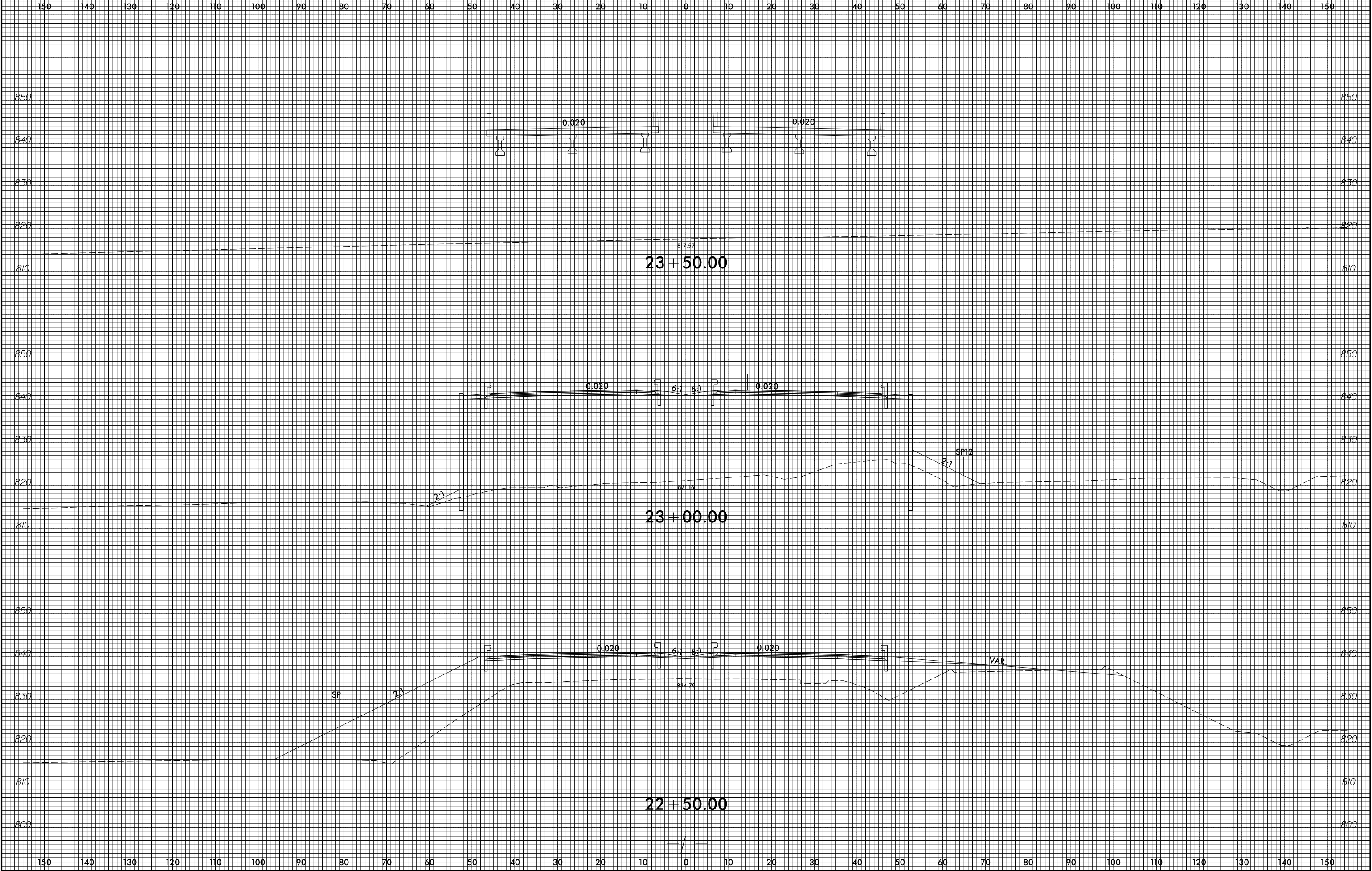


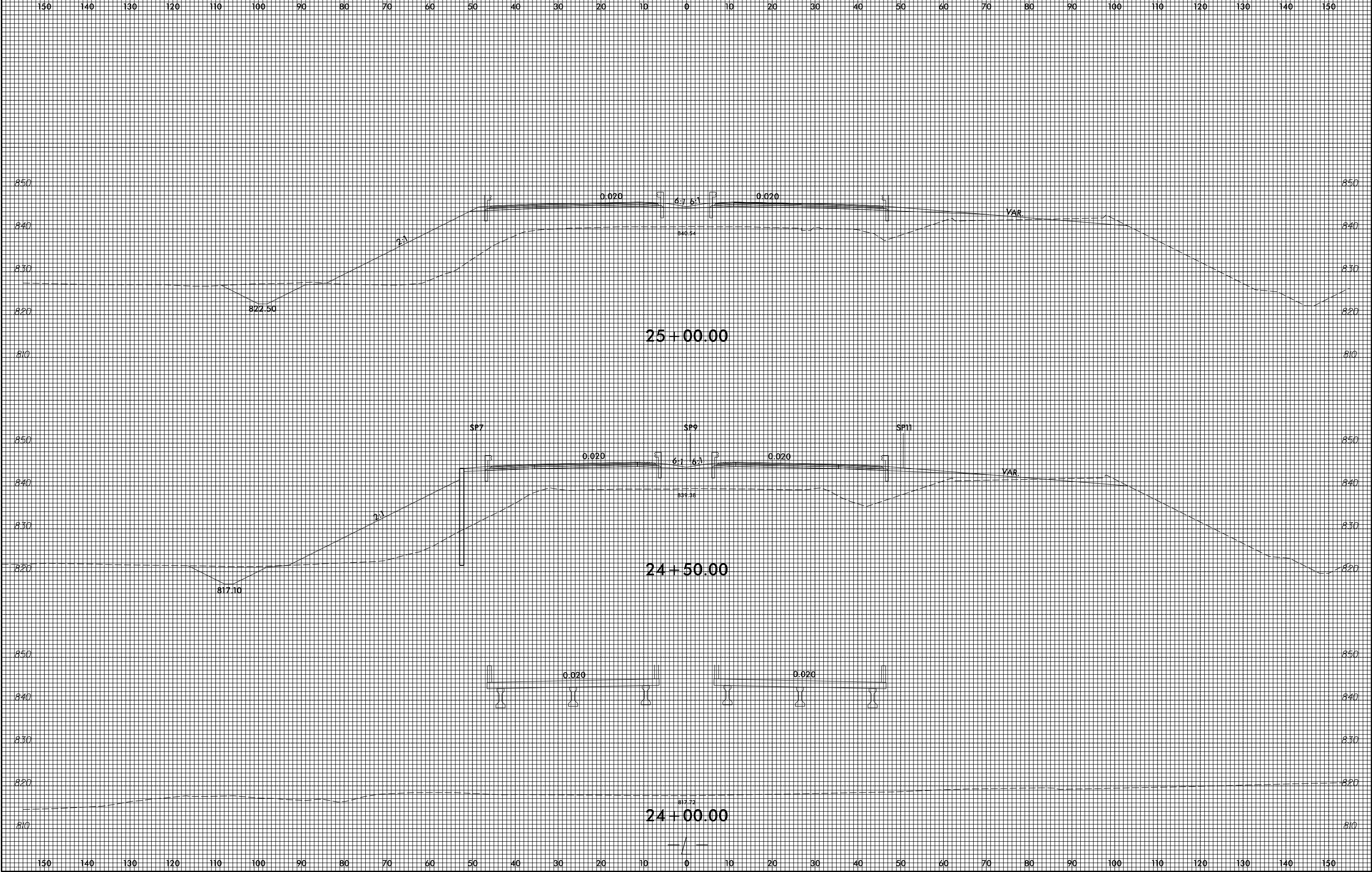


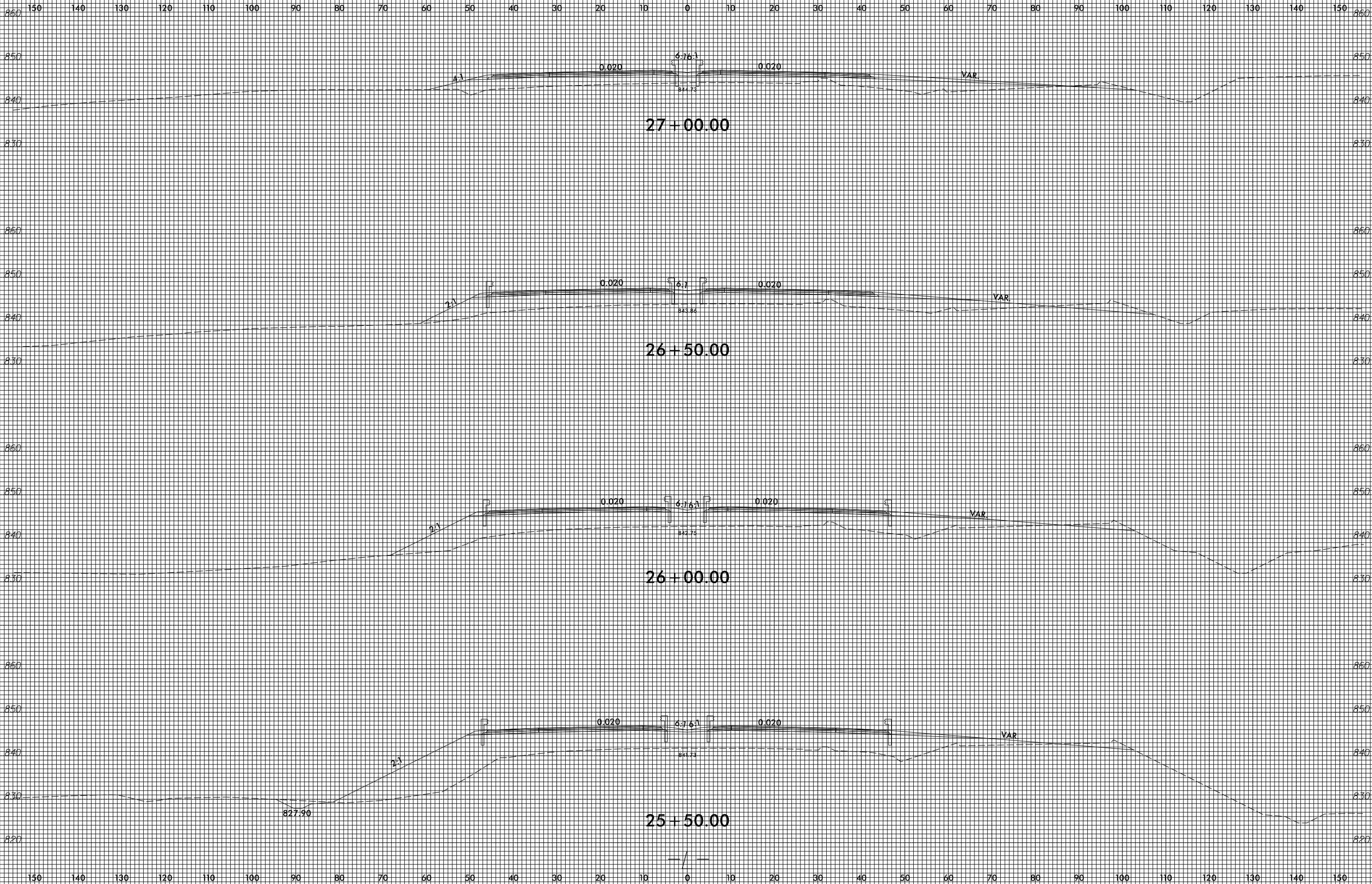


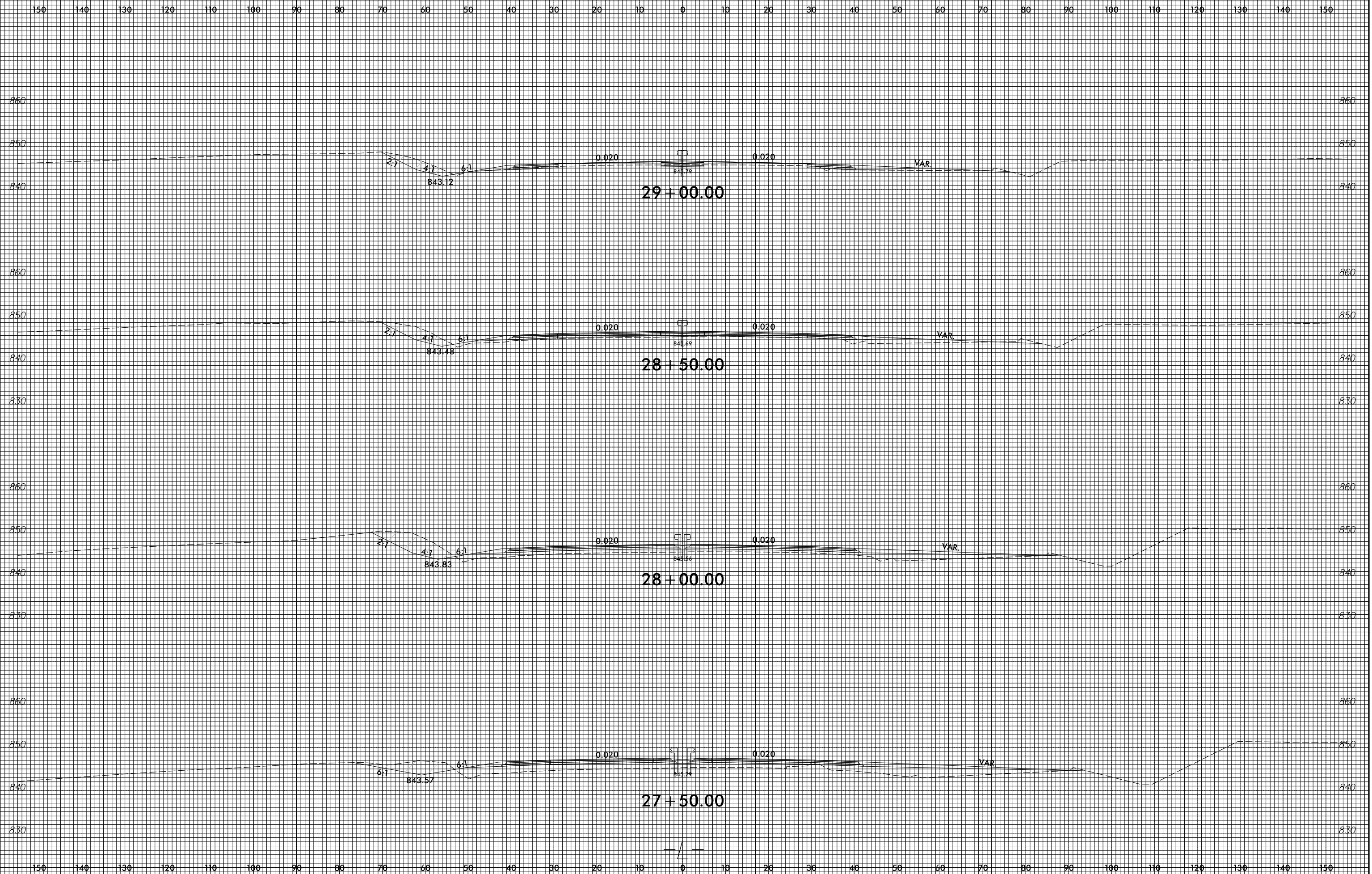




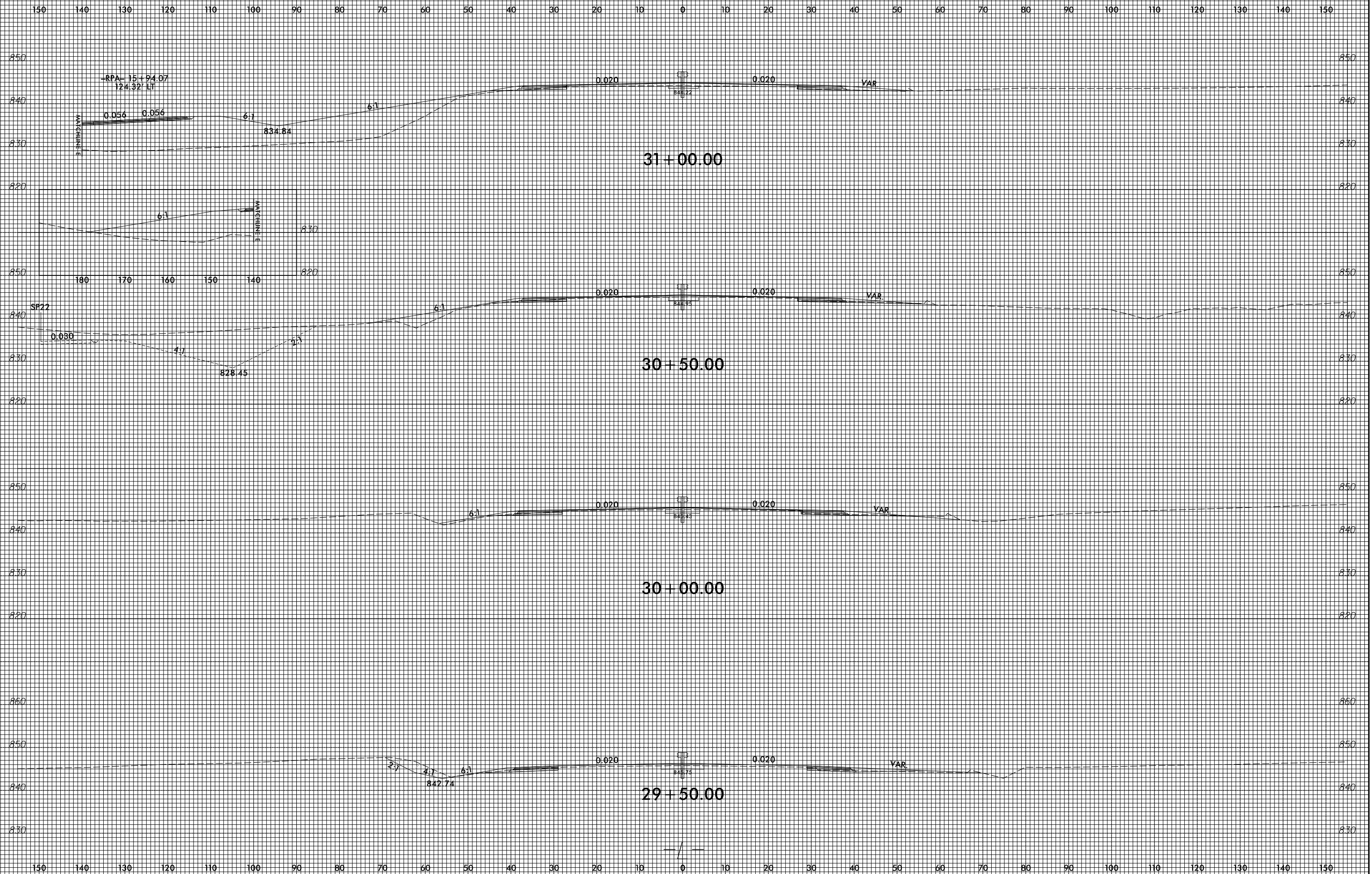


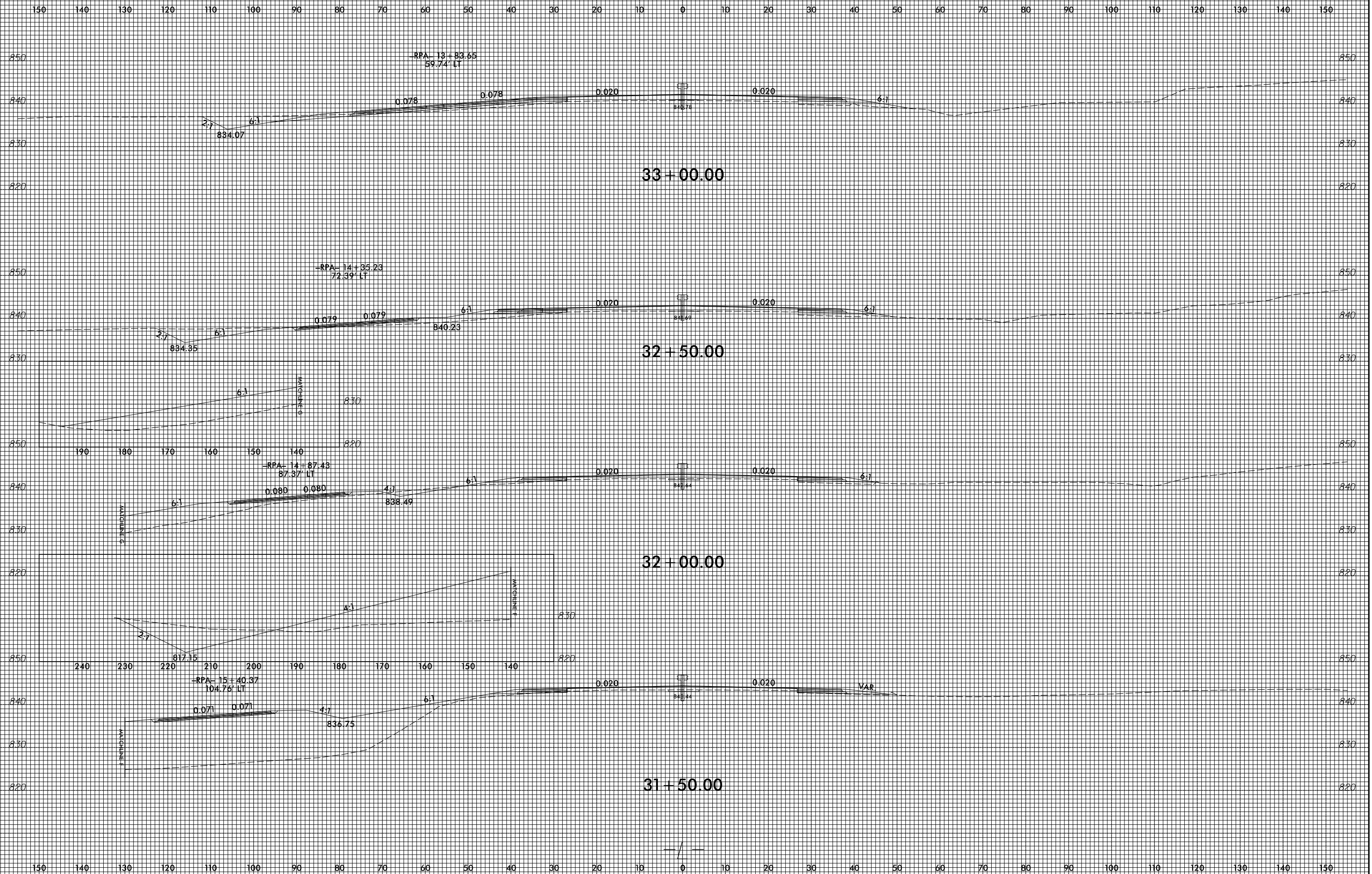


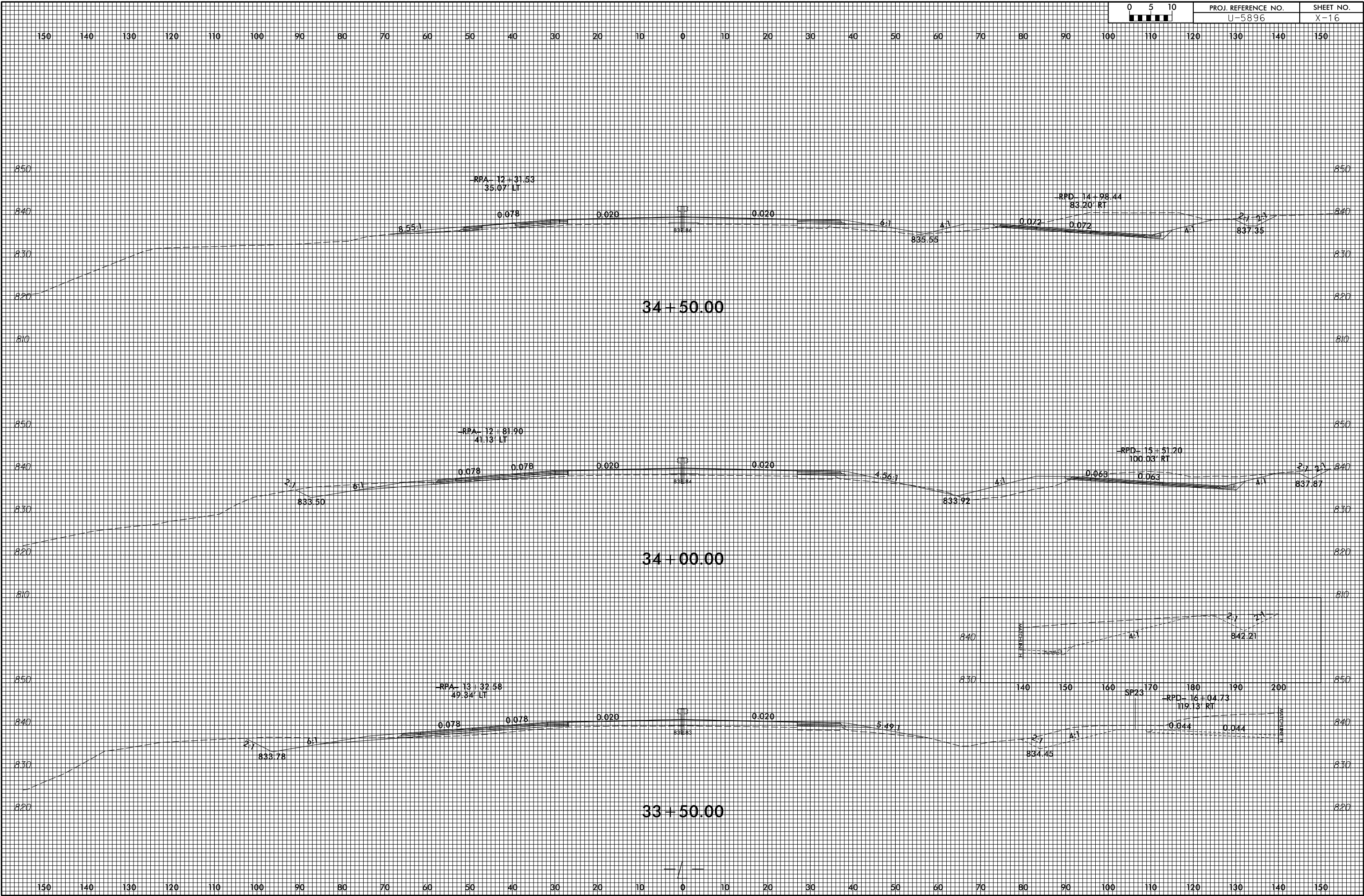


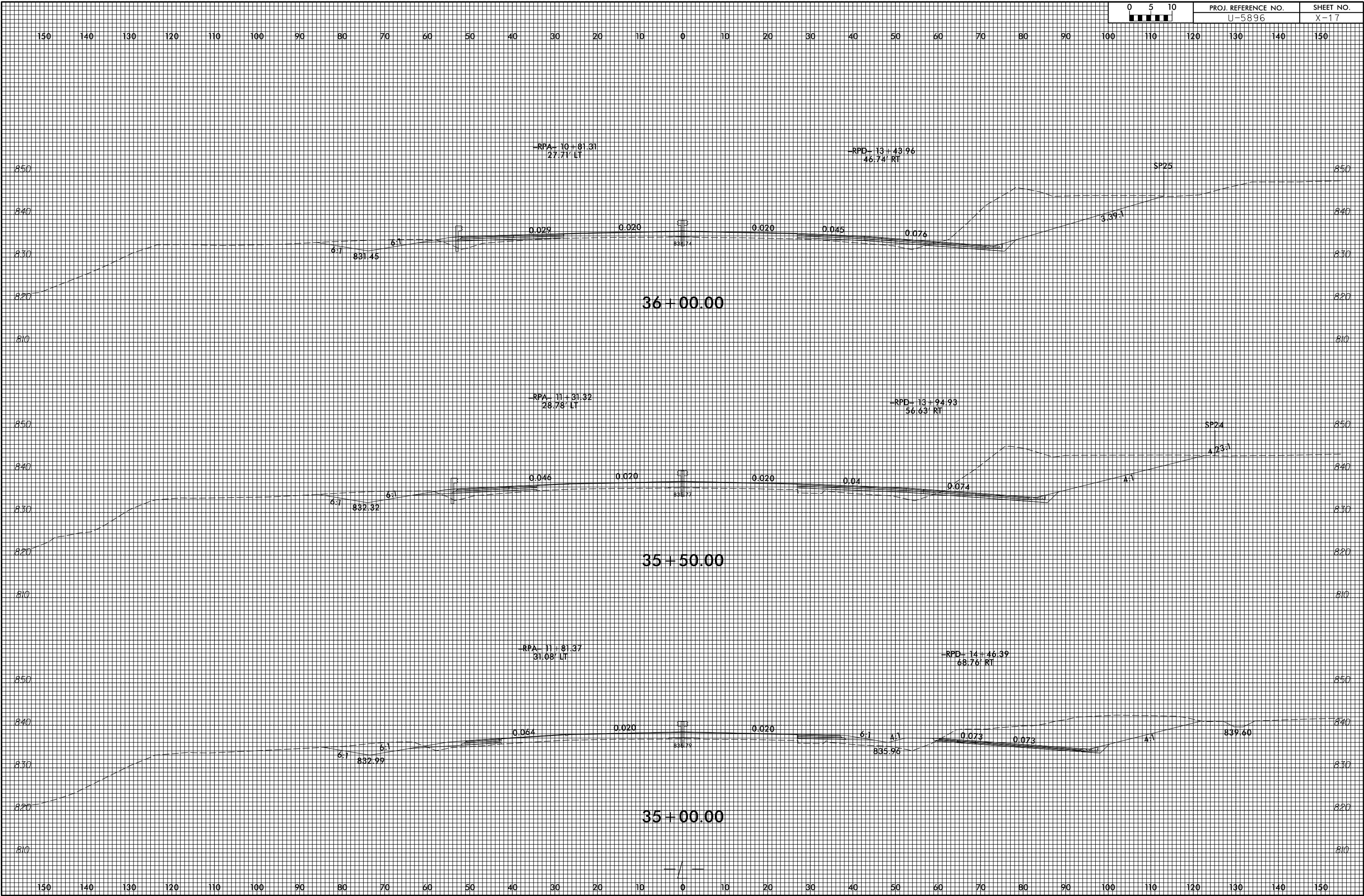


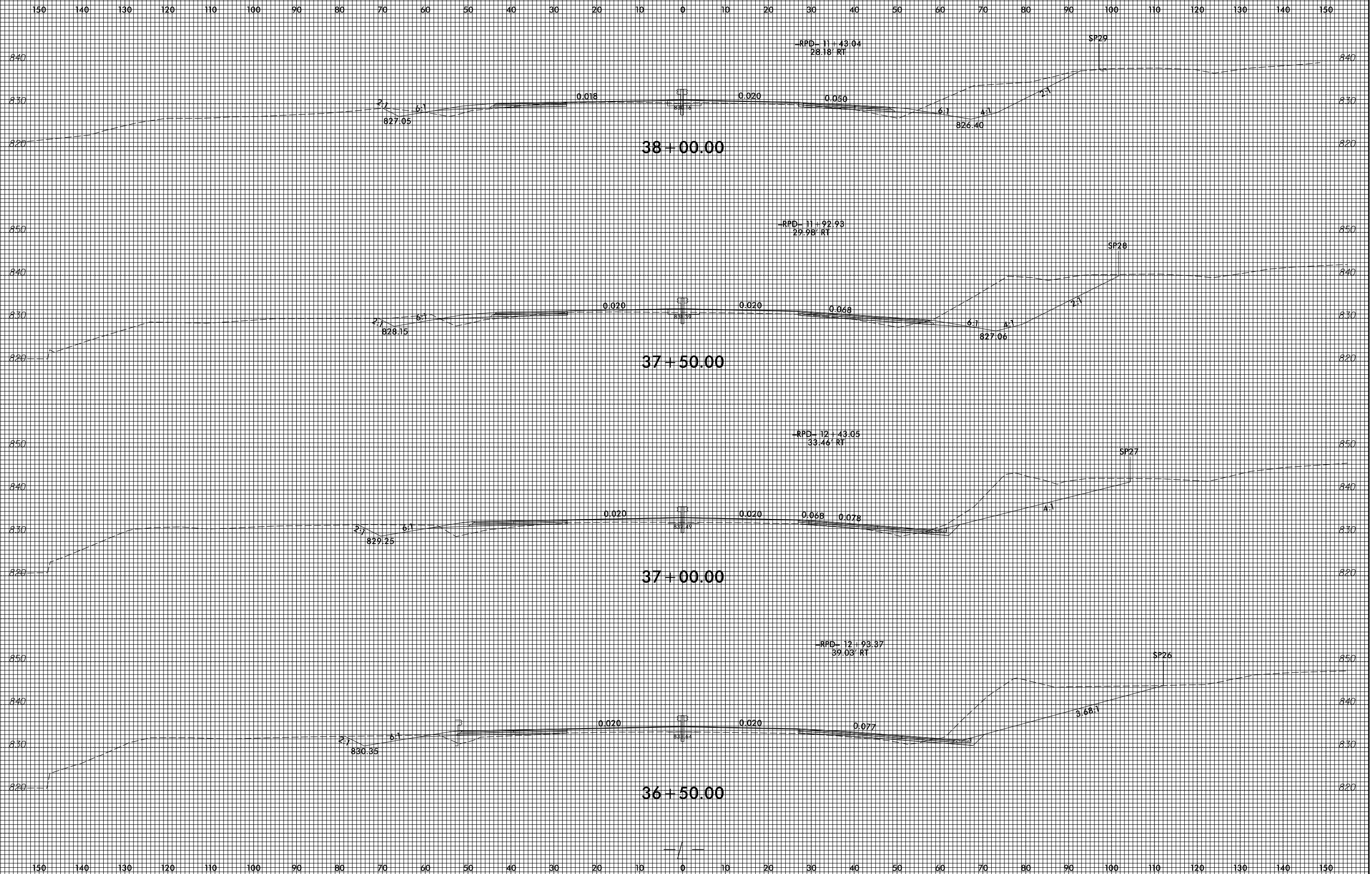


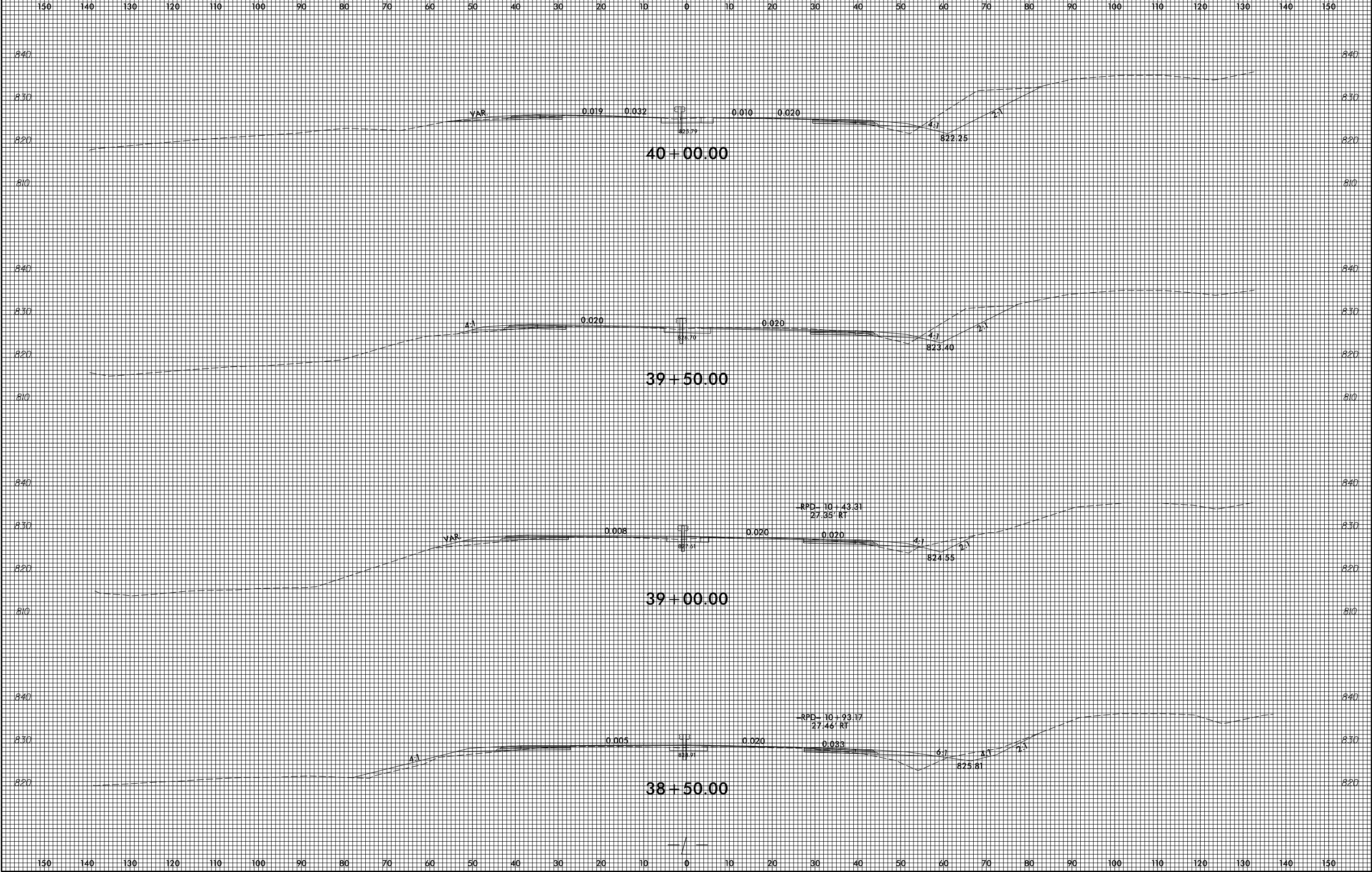


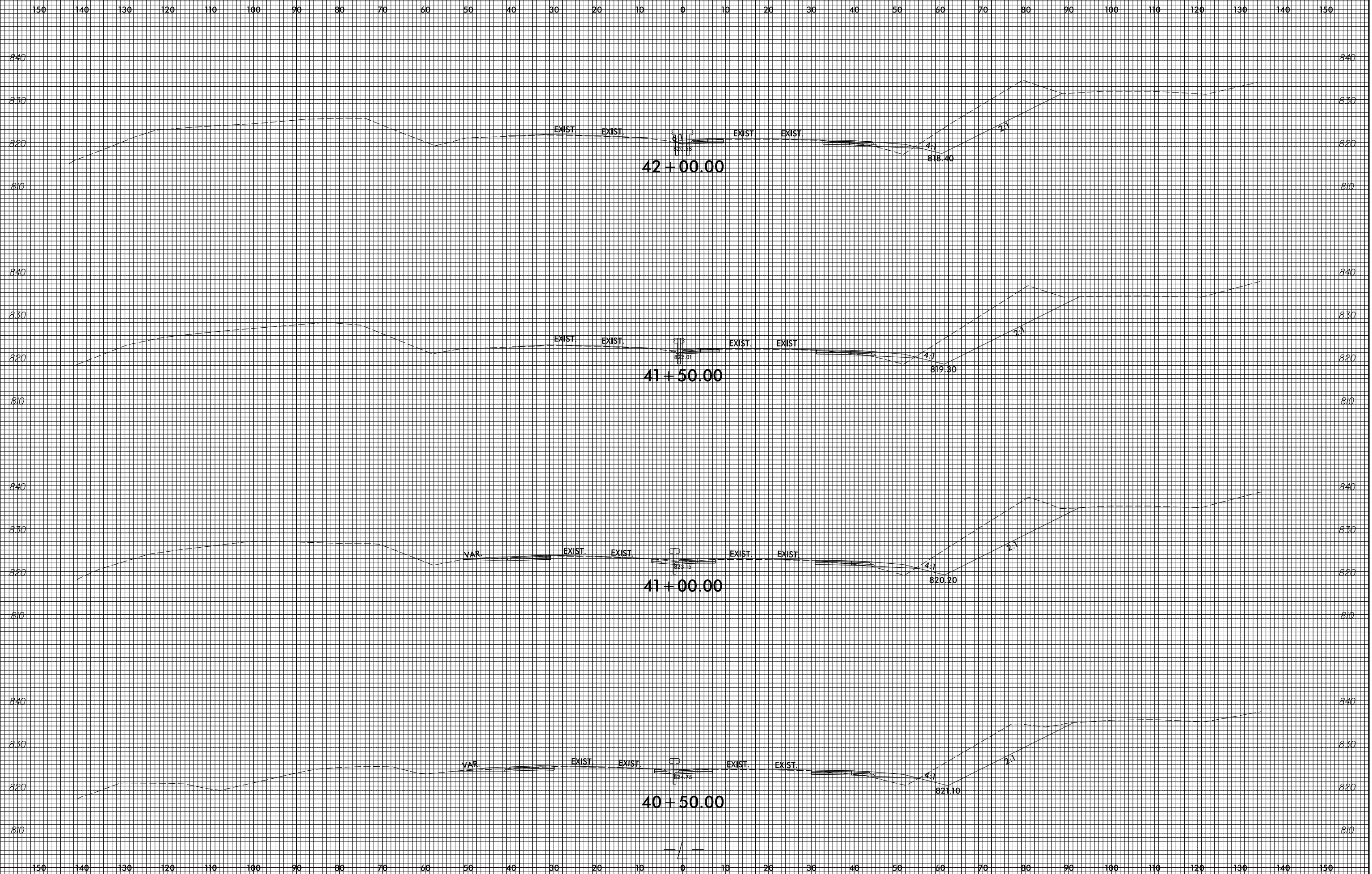


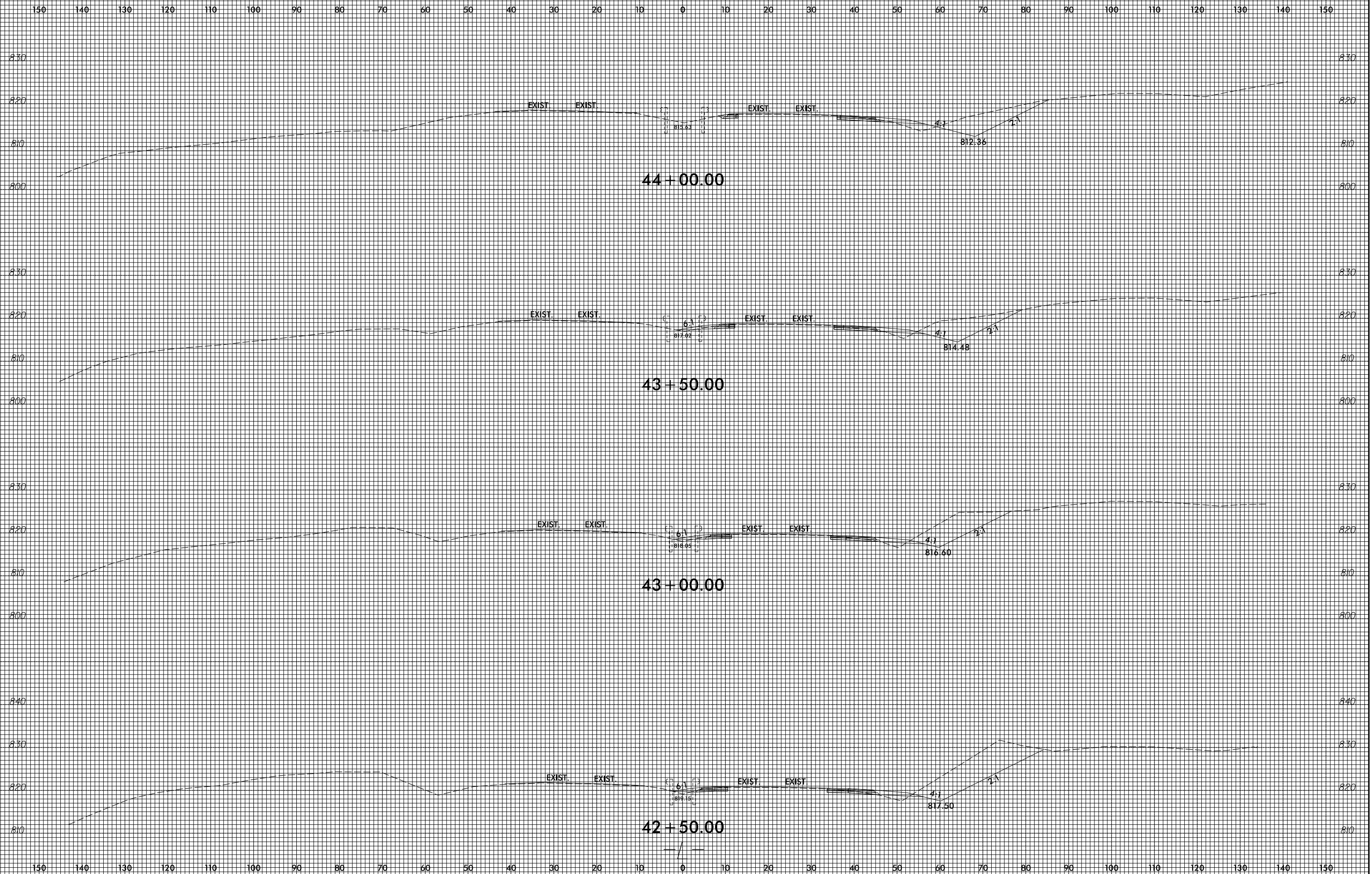








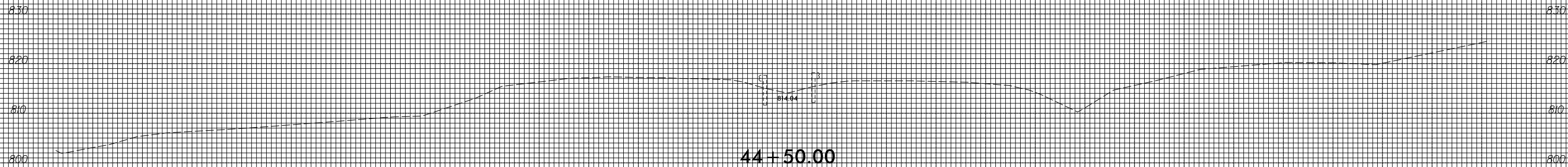




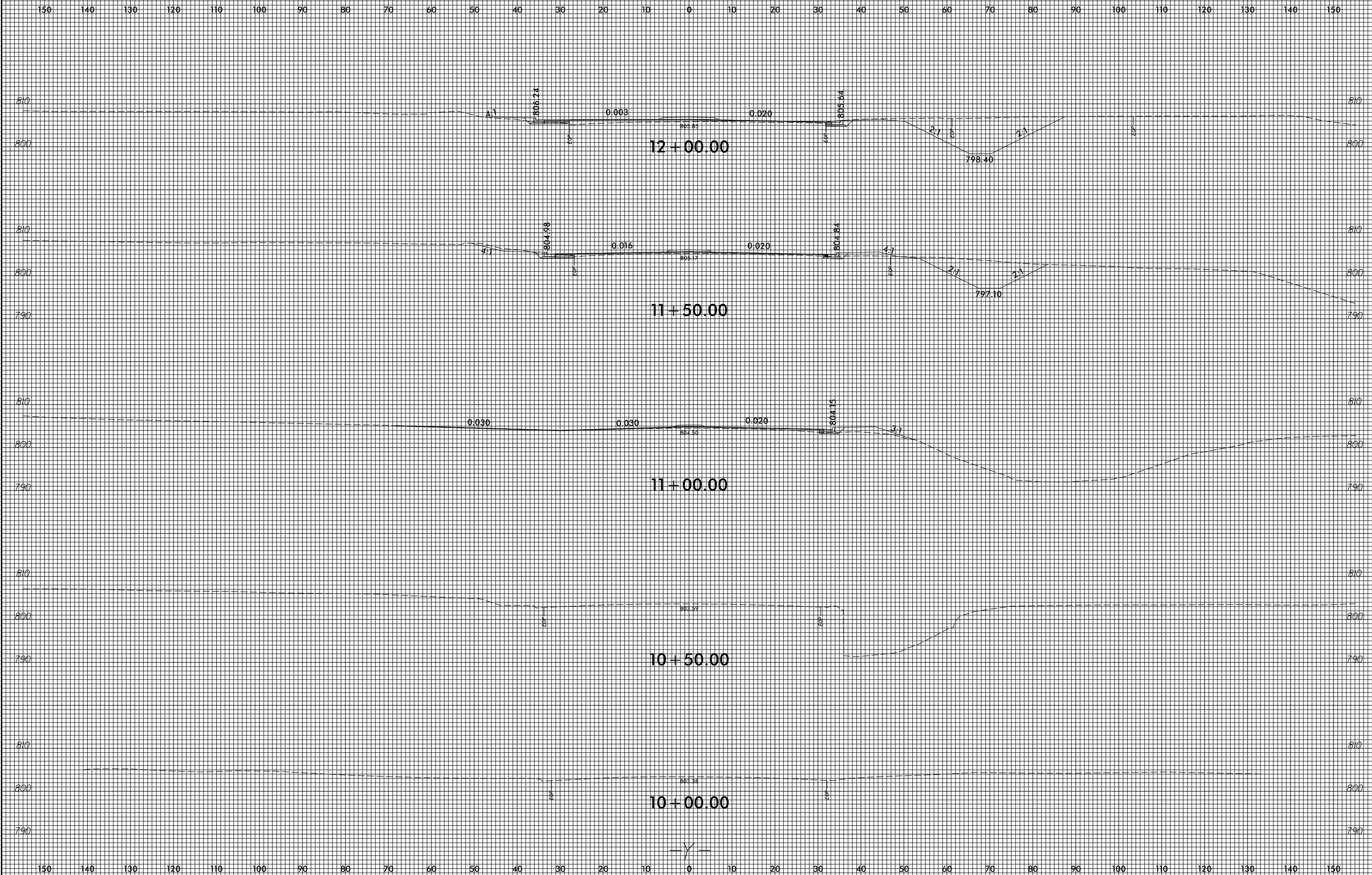




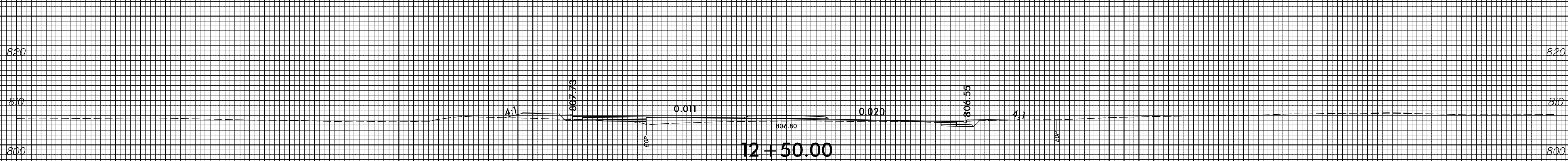
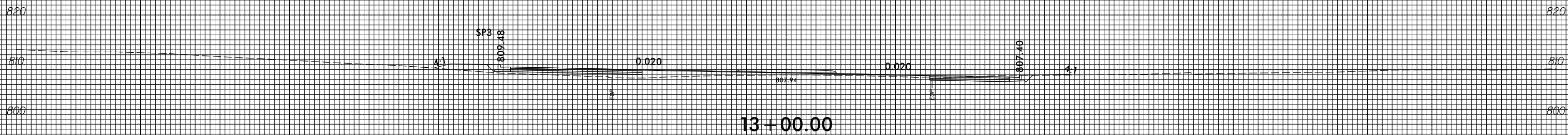
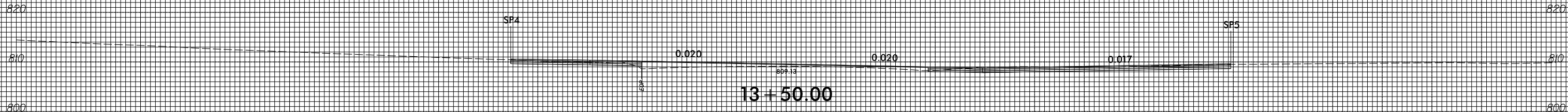
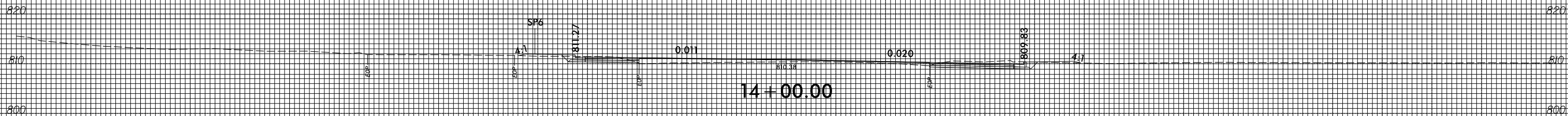
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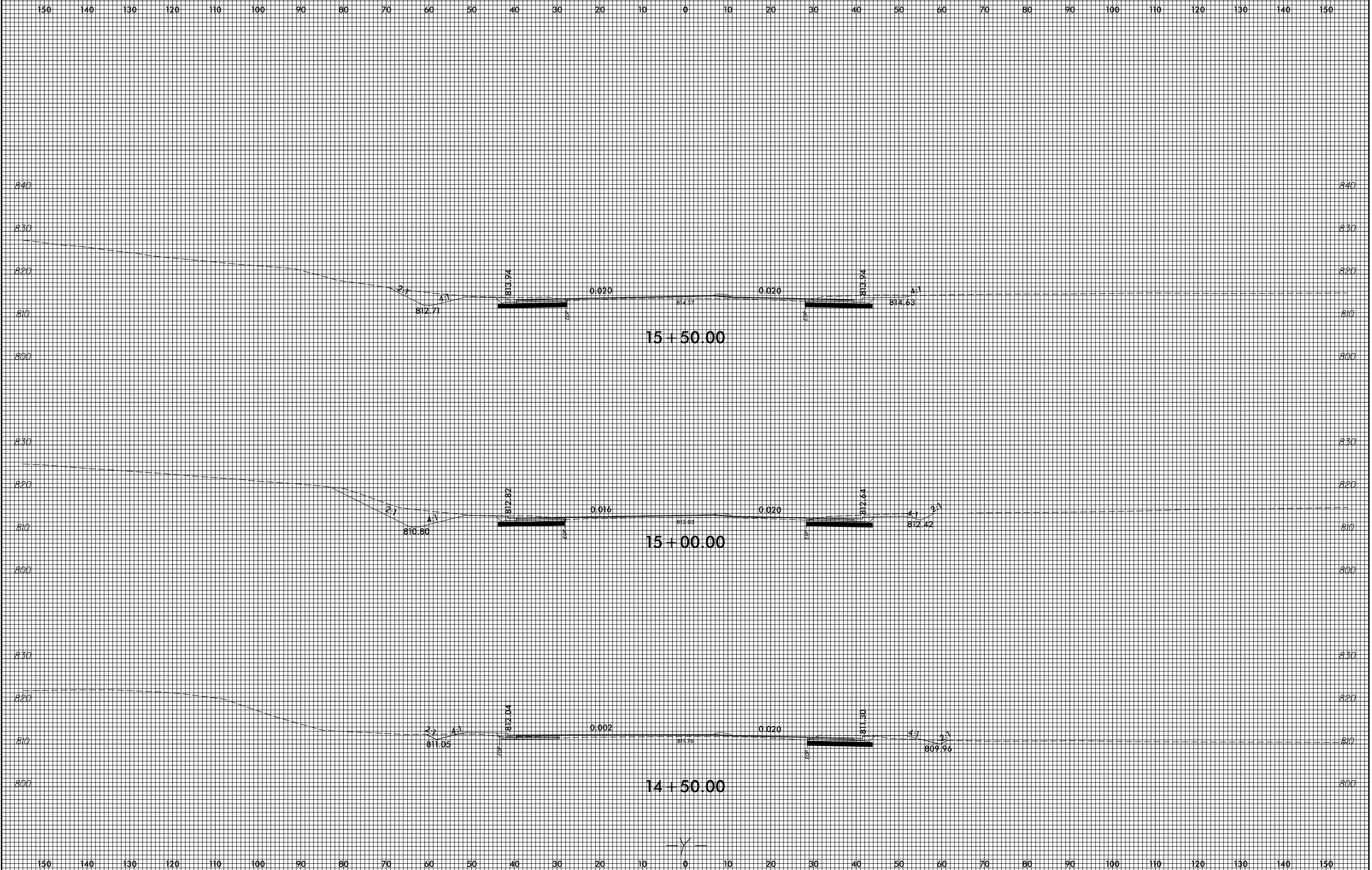
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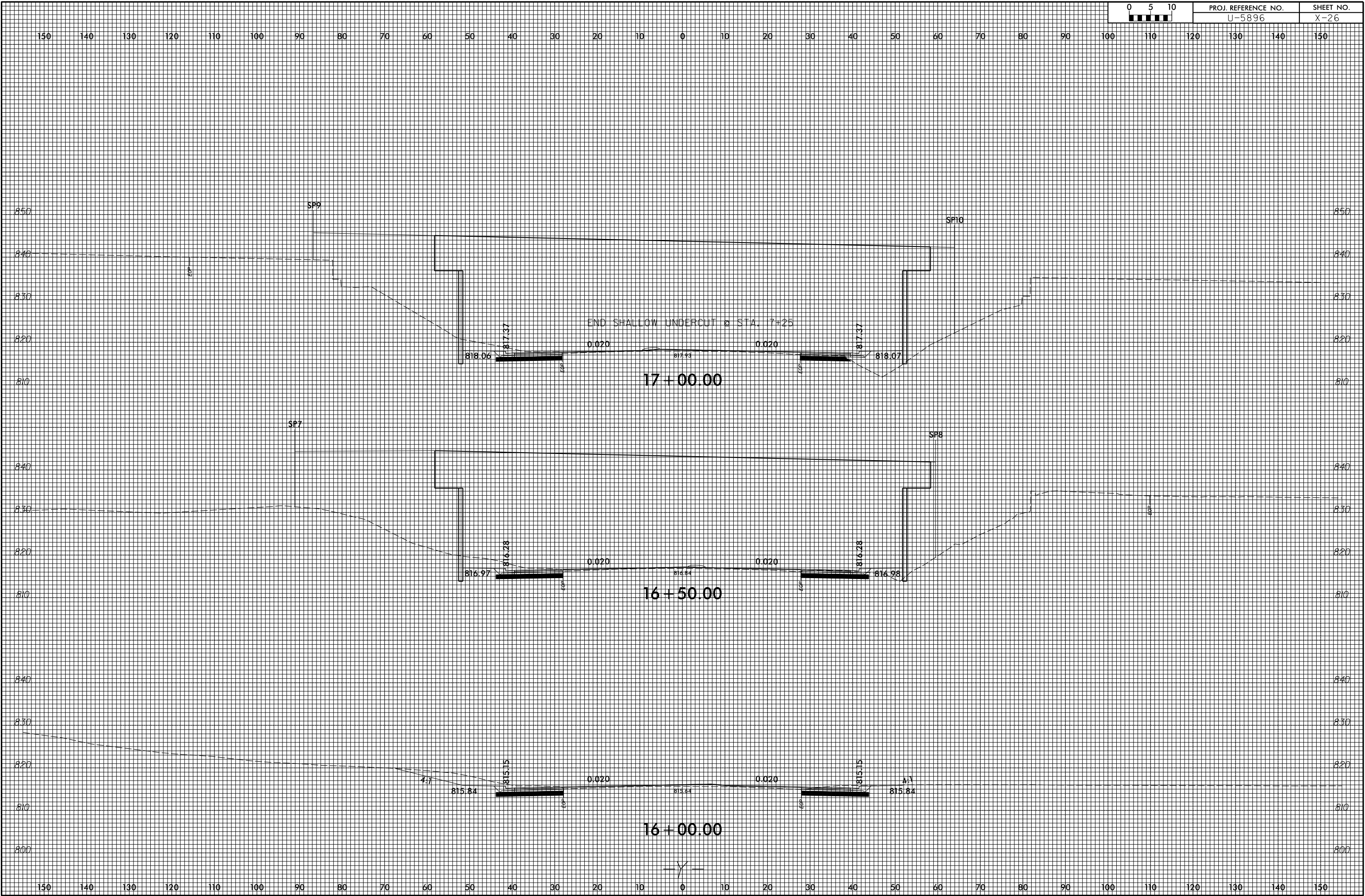


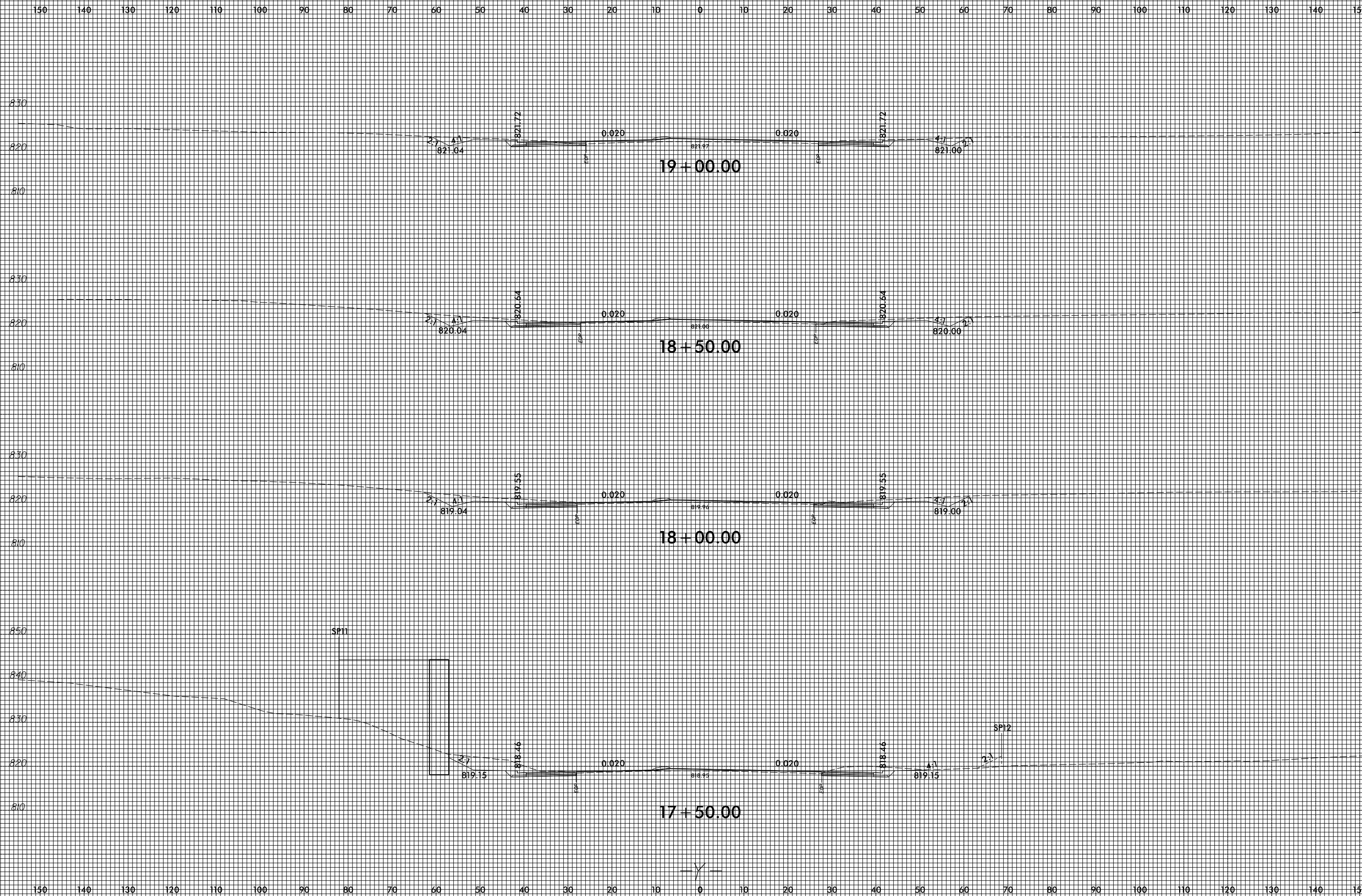
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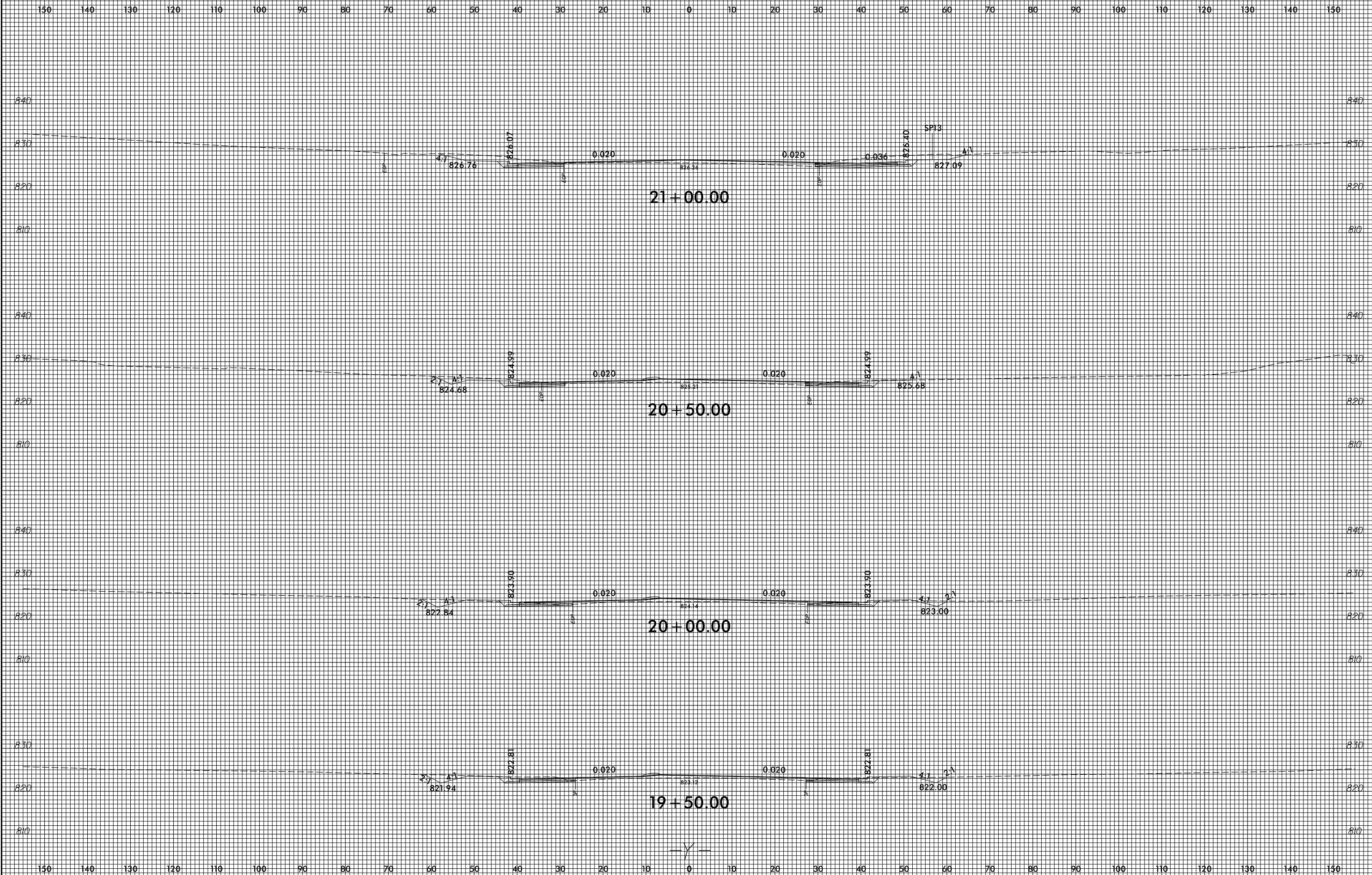


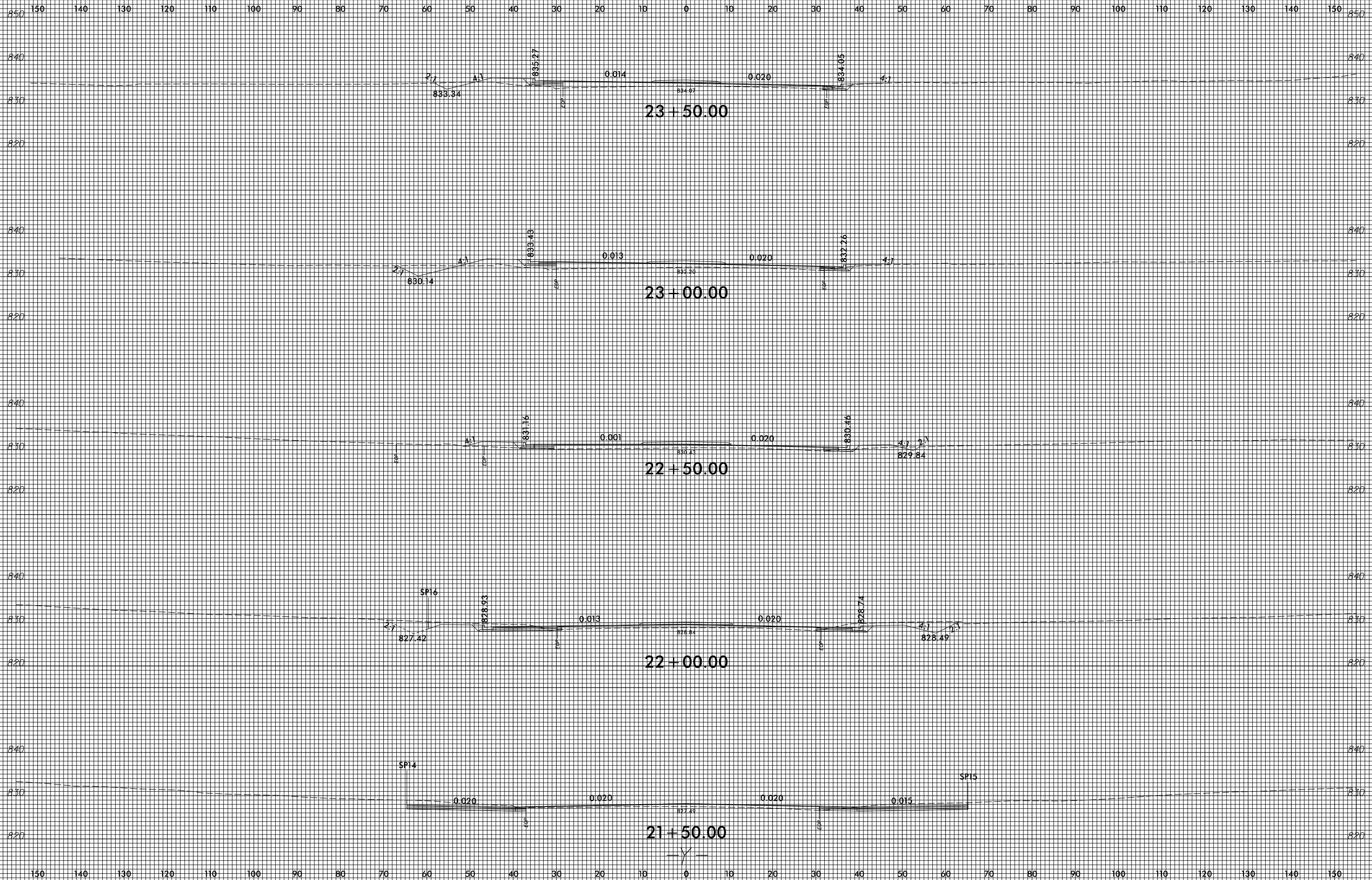
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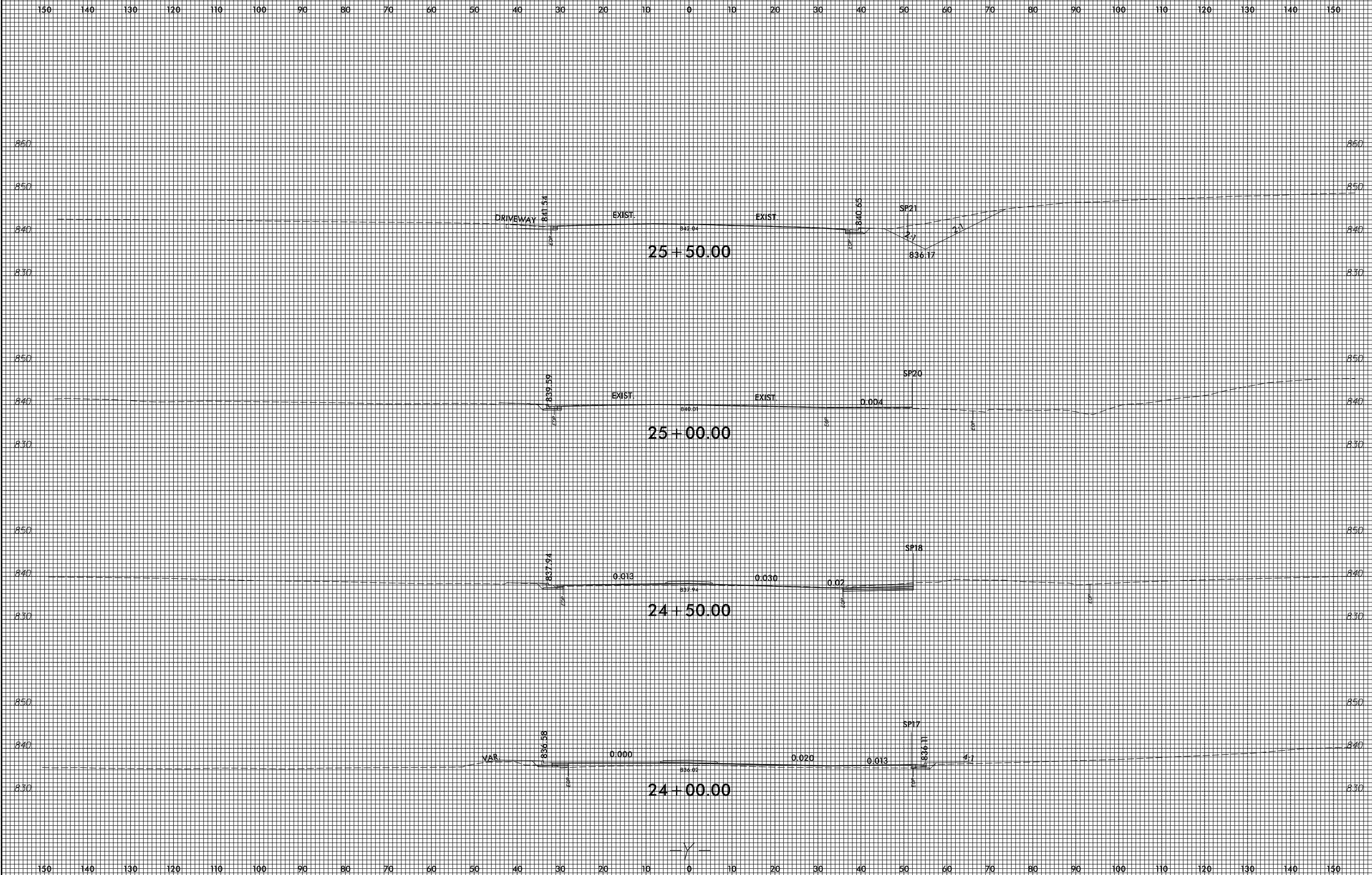














150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

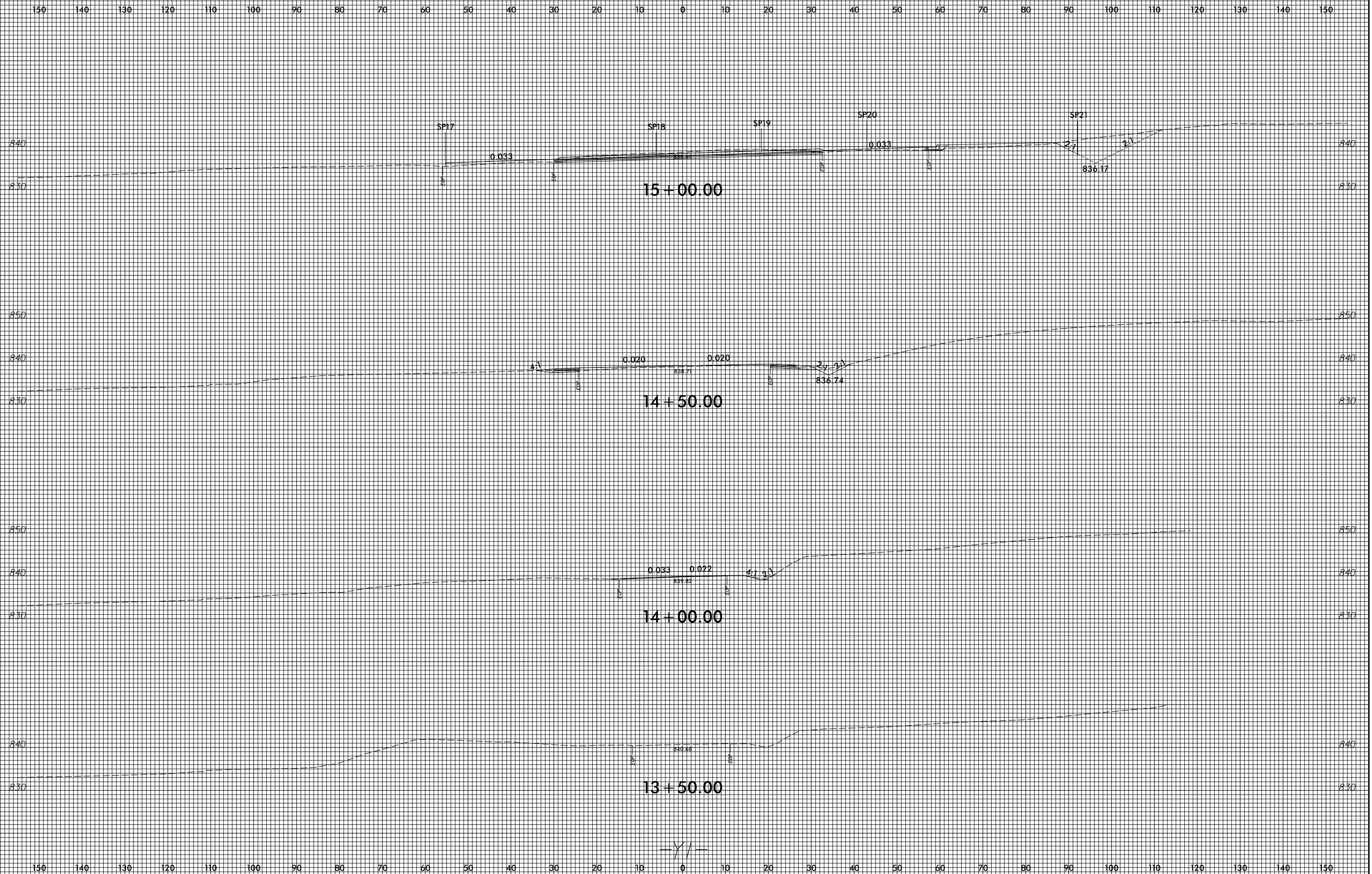
860  
850  
840

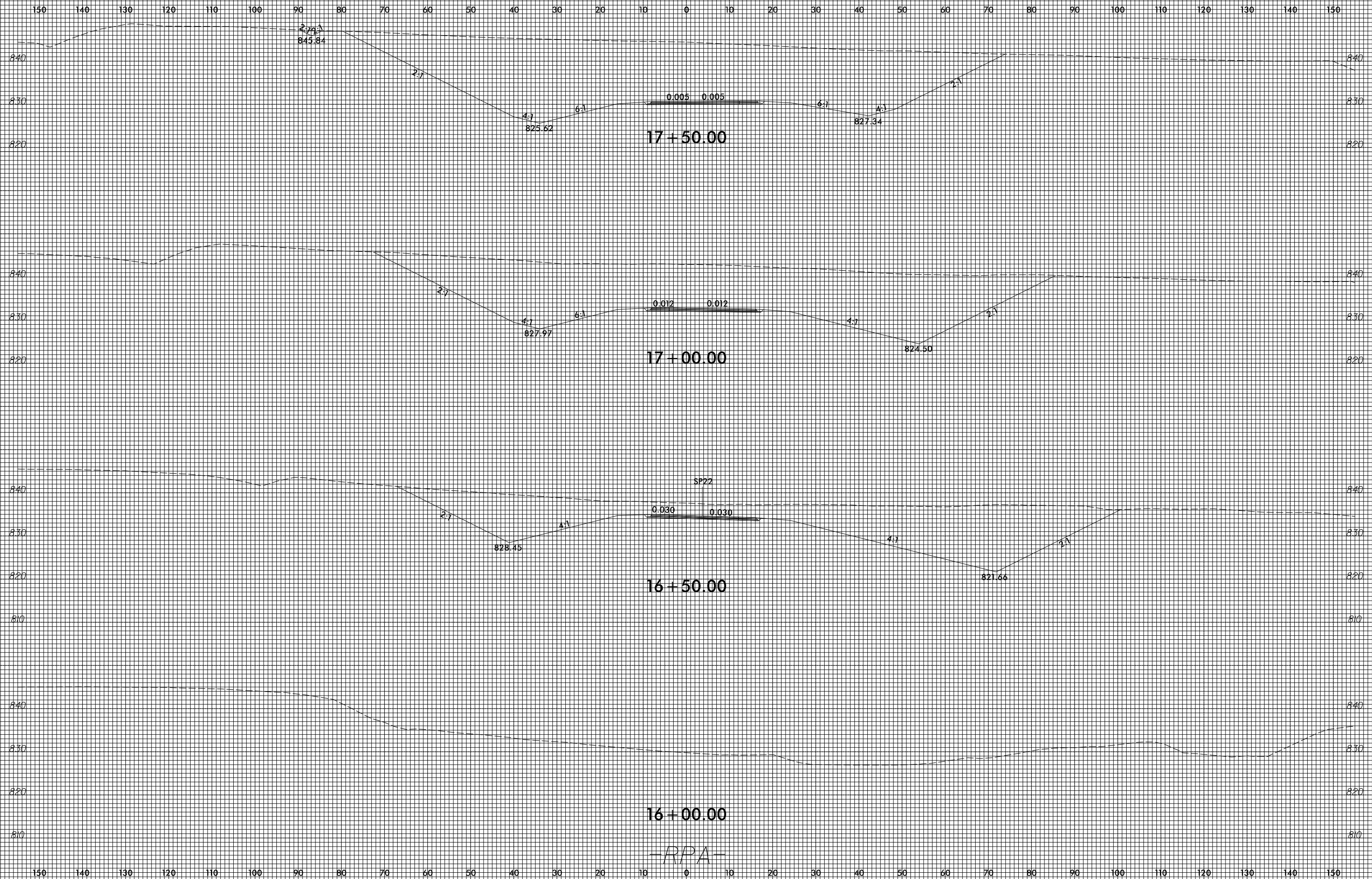
860  
850  
840

26+00.00

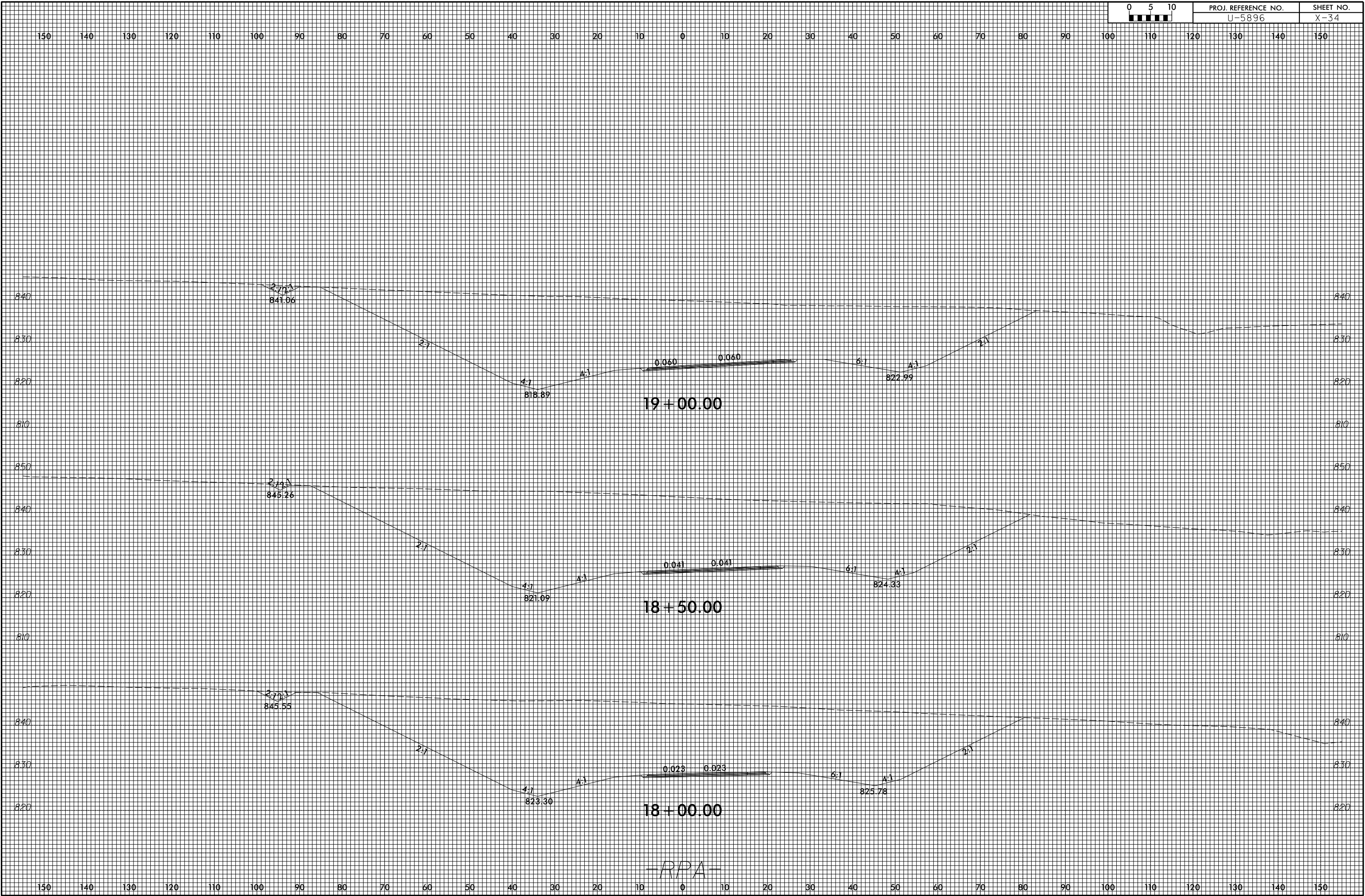
—Y—

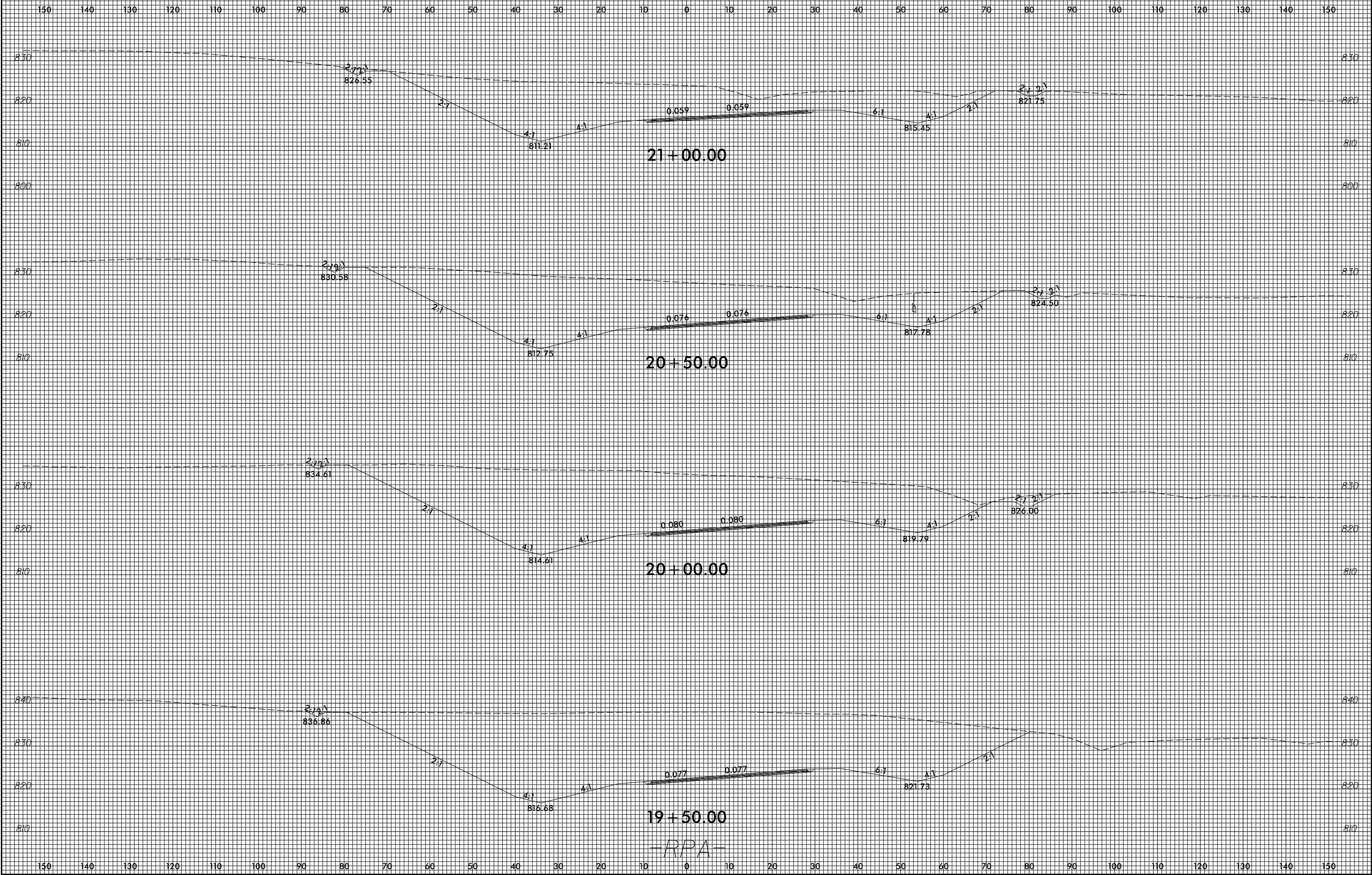
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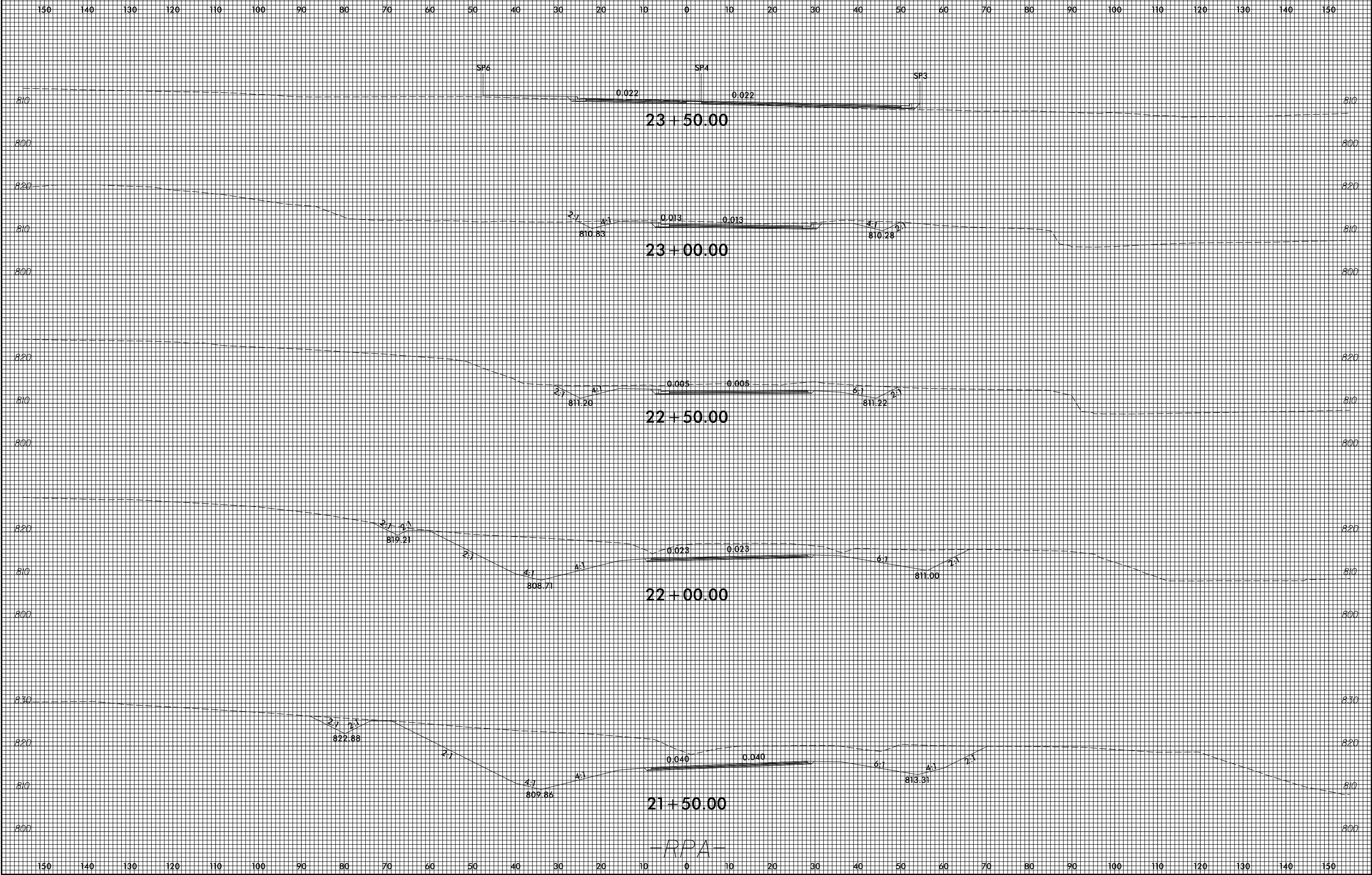


-RPA-





-RPA-





150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

810

810

800

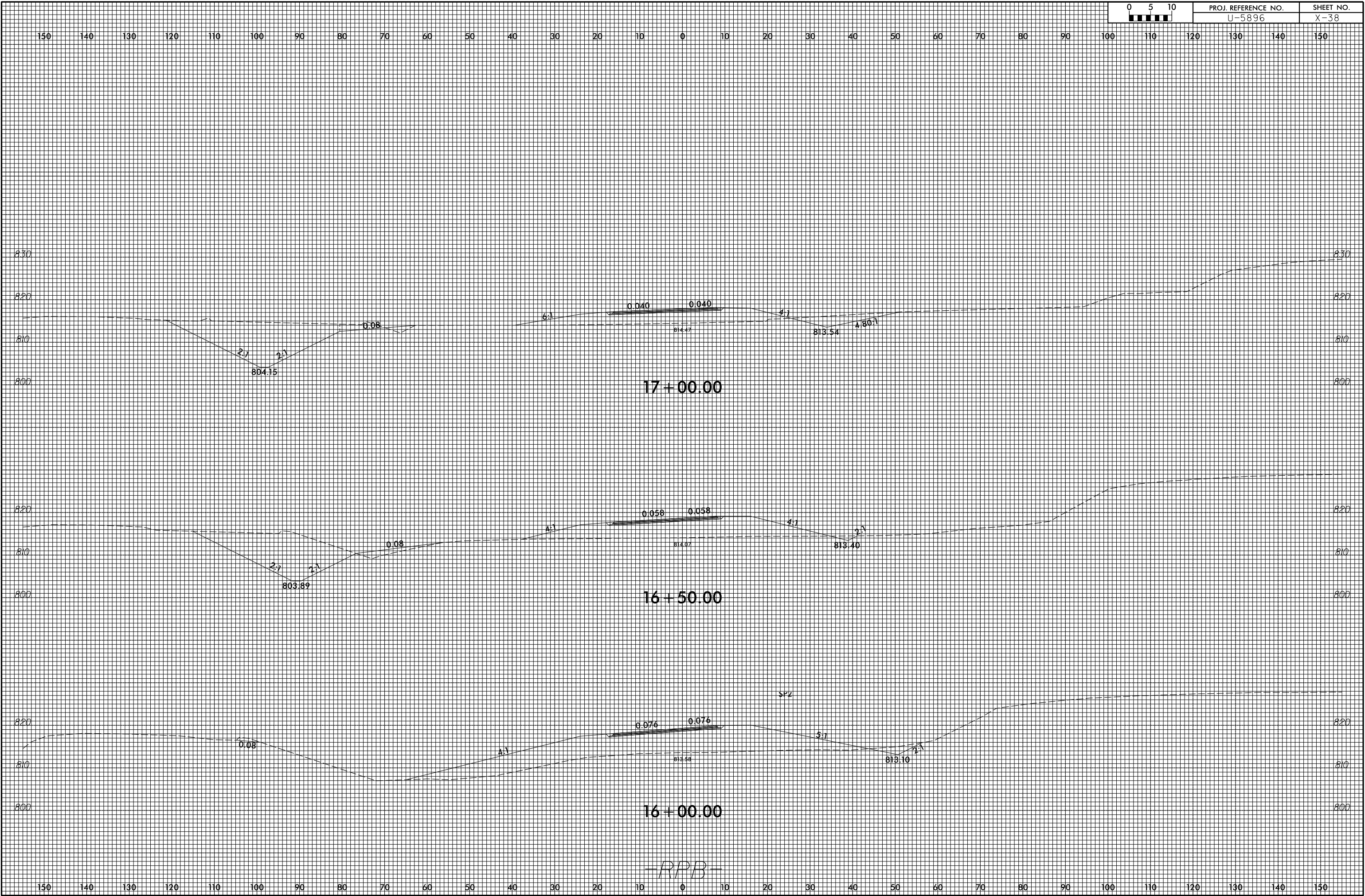
800

24+00.00

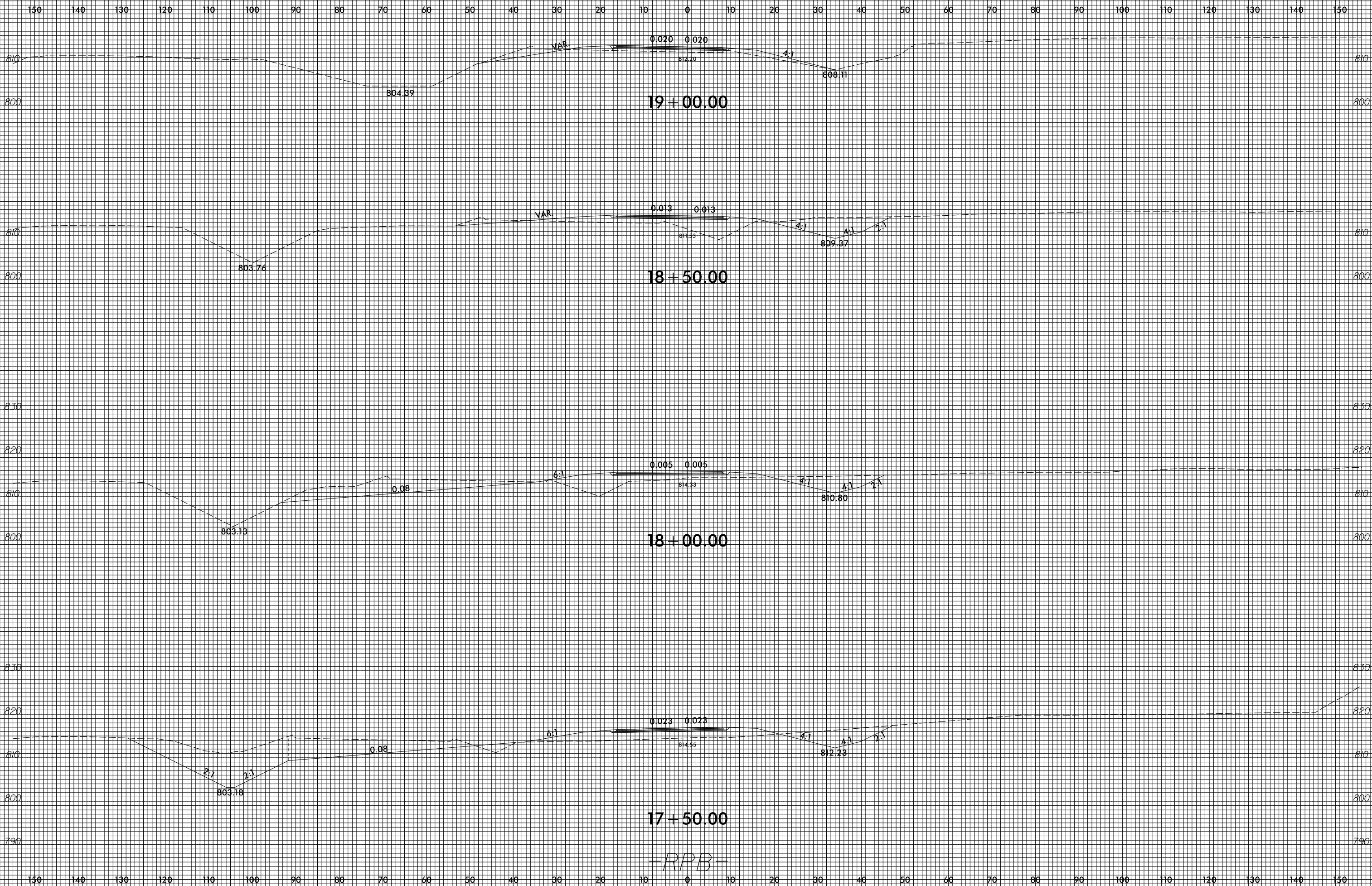
-RPA-

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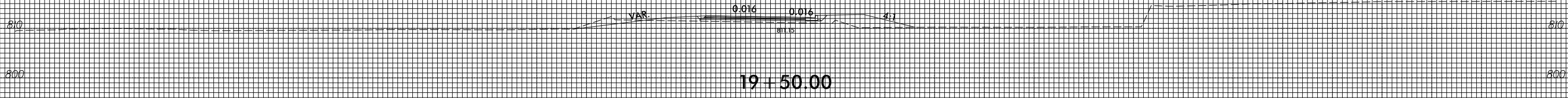
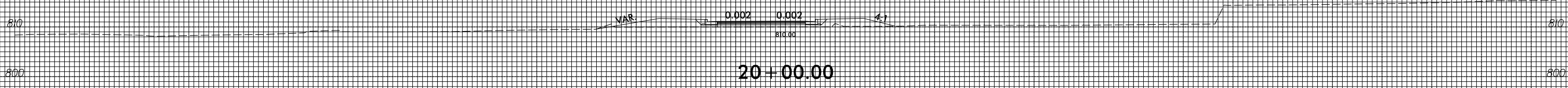
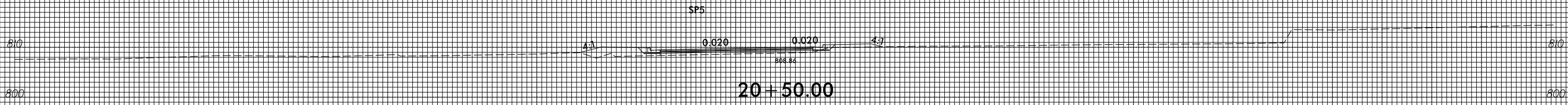
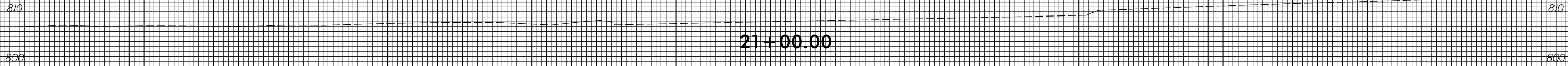
-RPB-



17+50.00

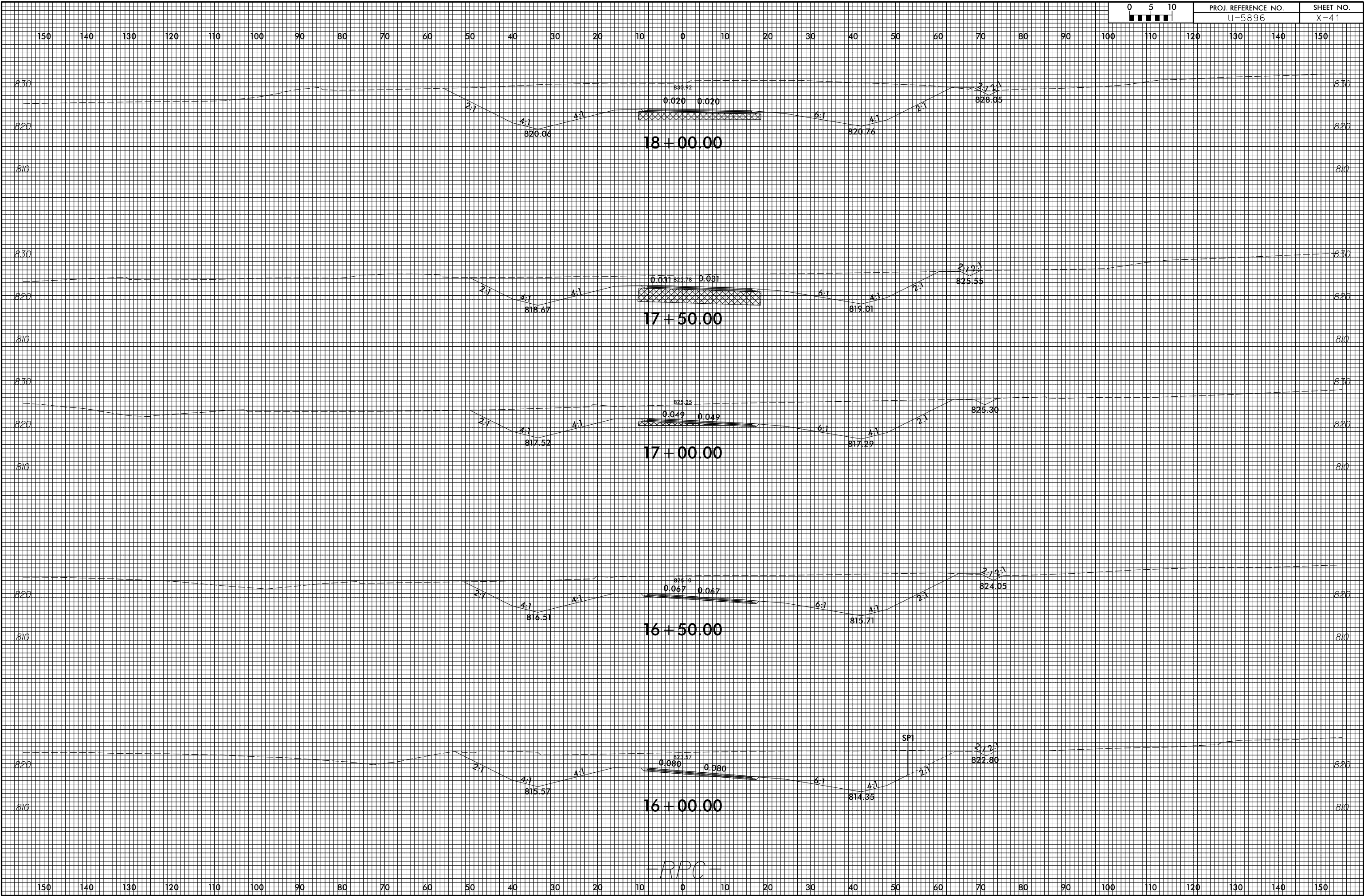
RPB

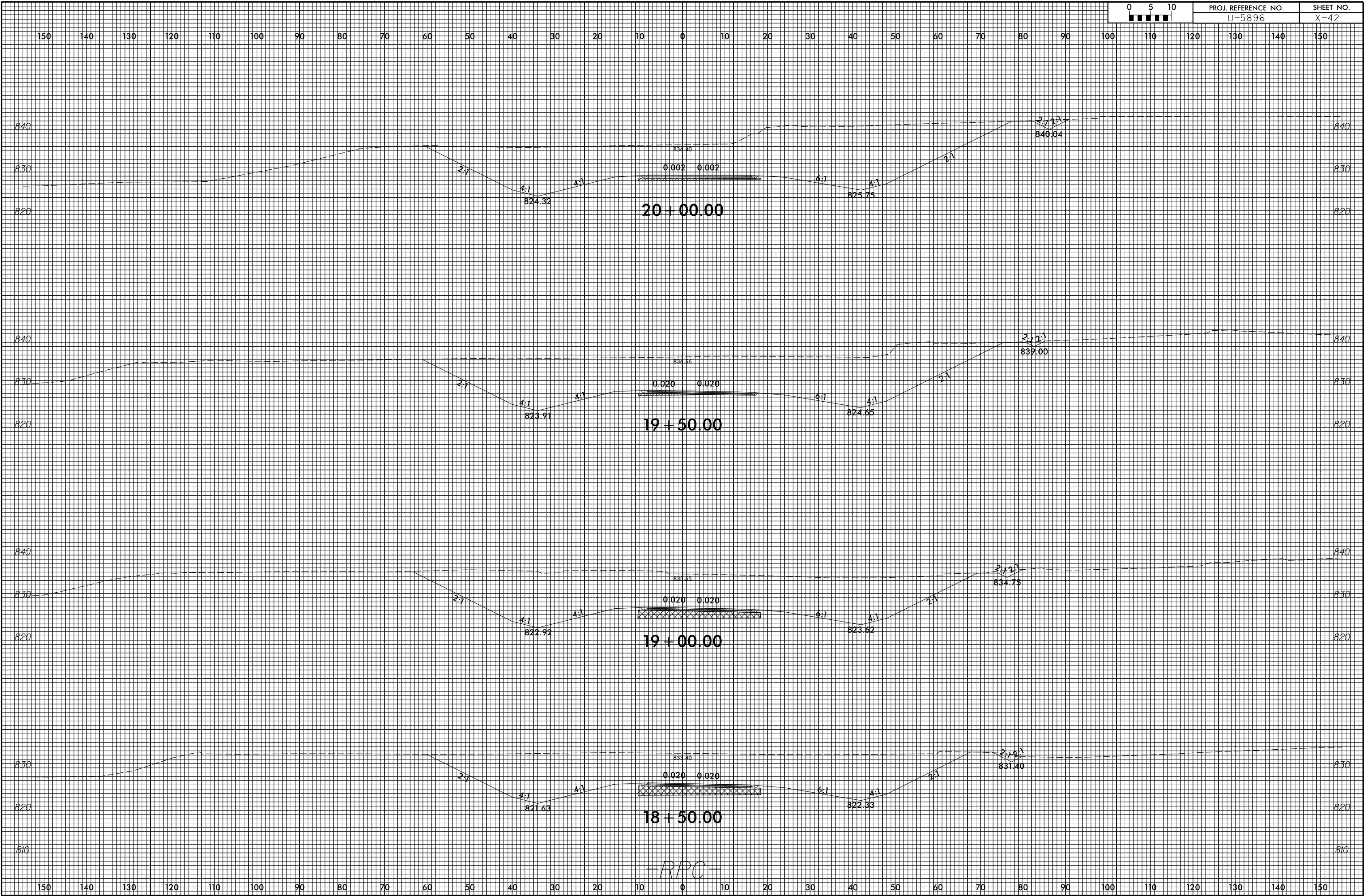
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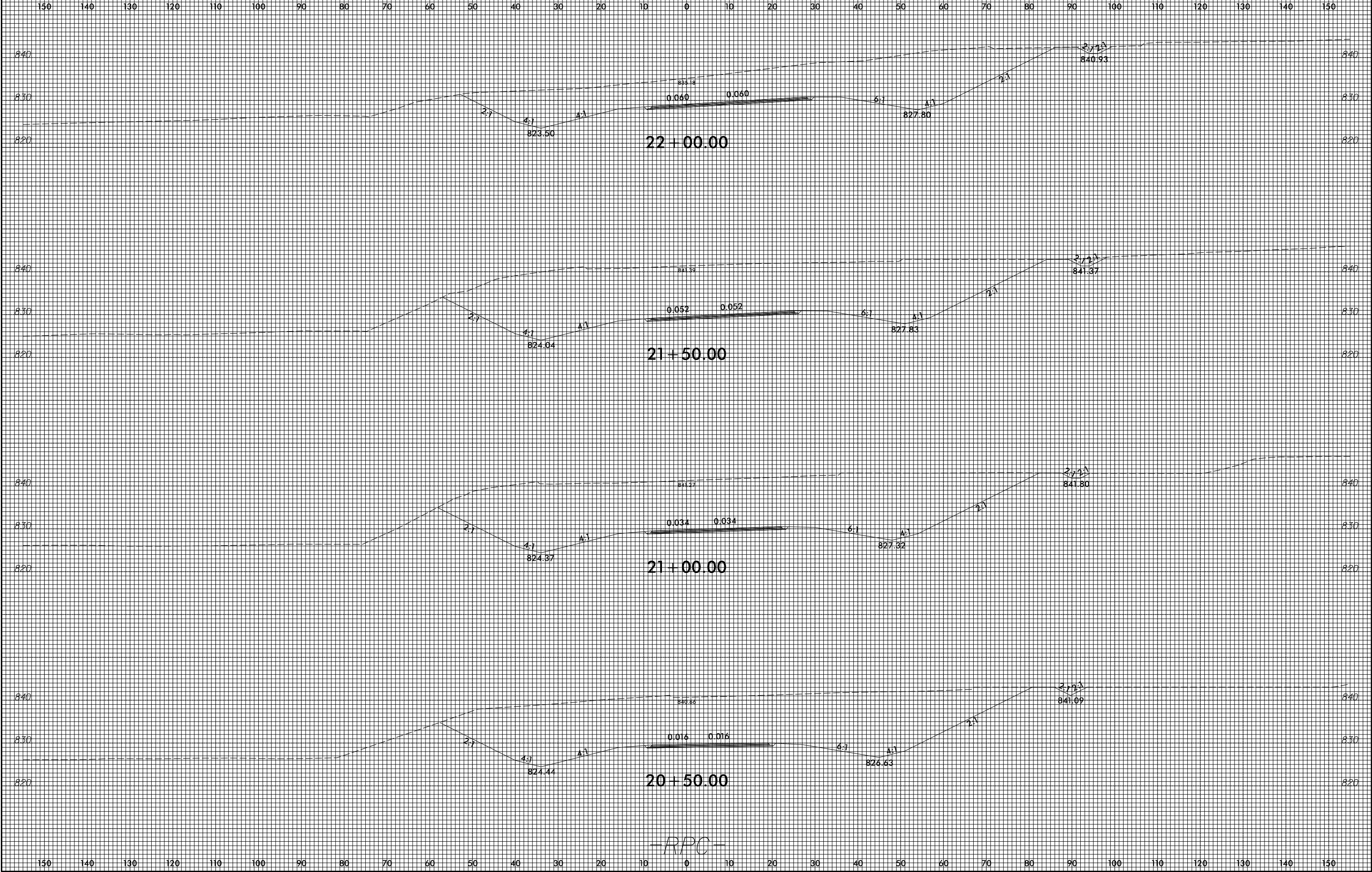


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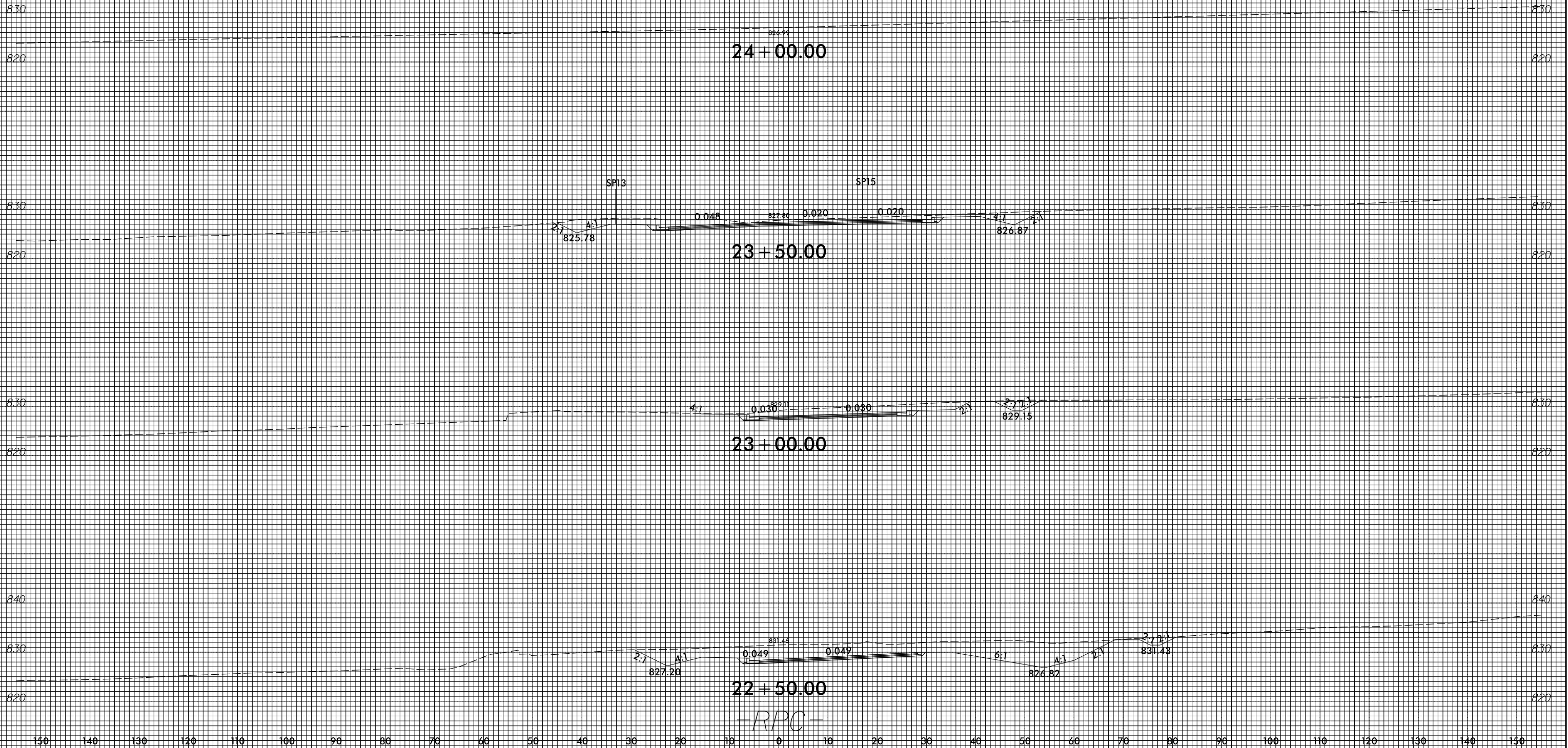
-RPB-

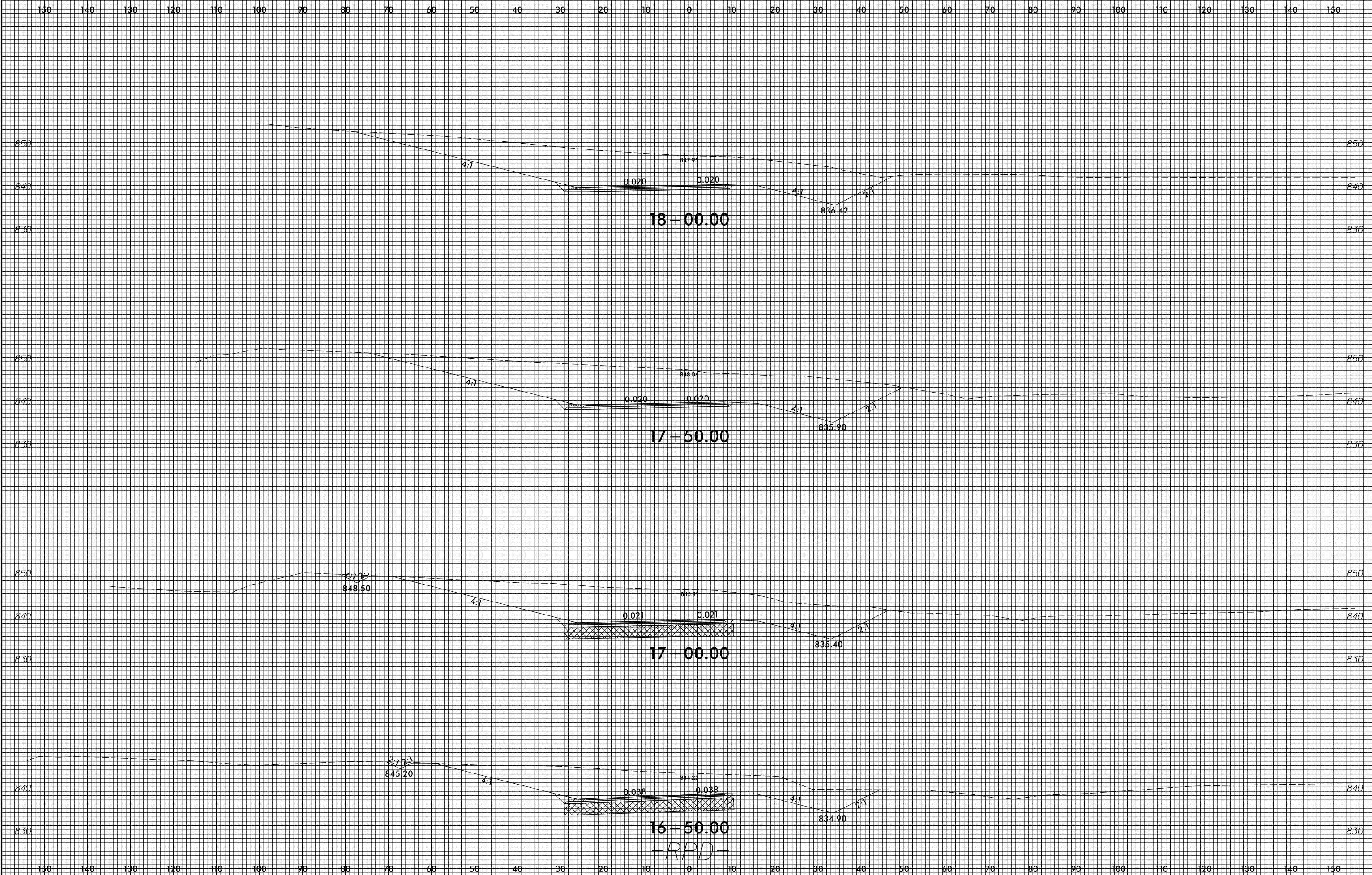




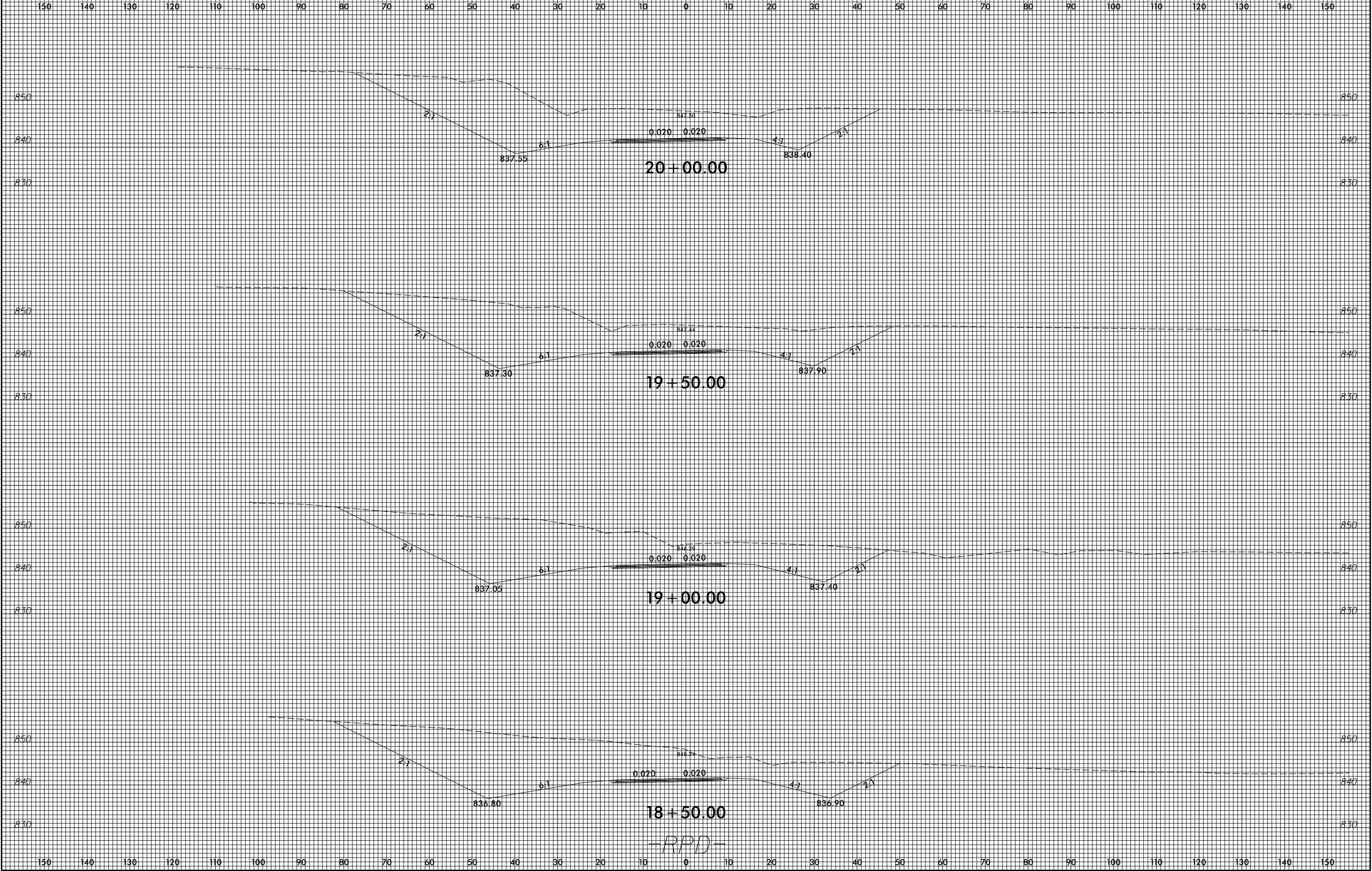


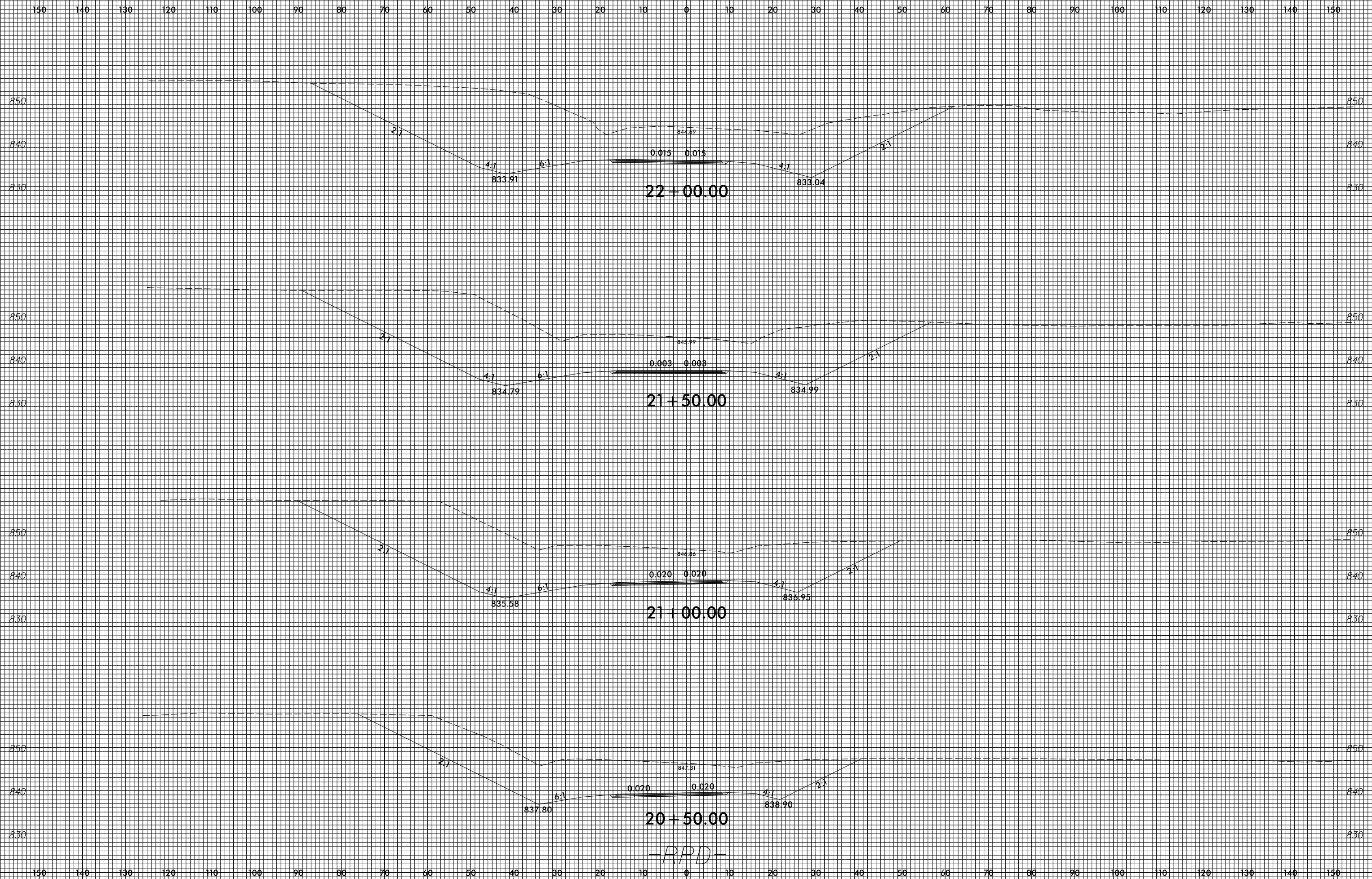
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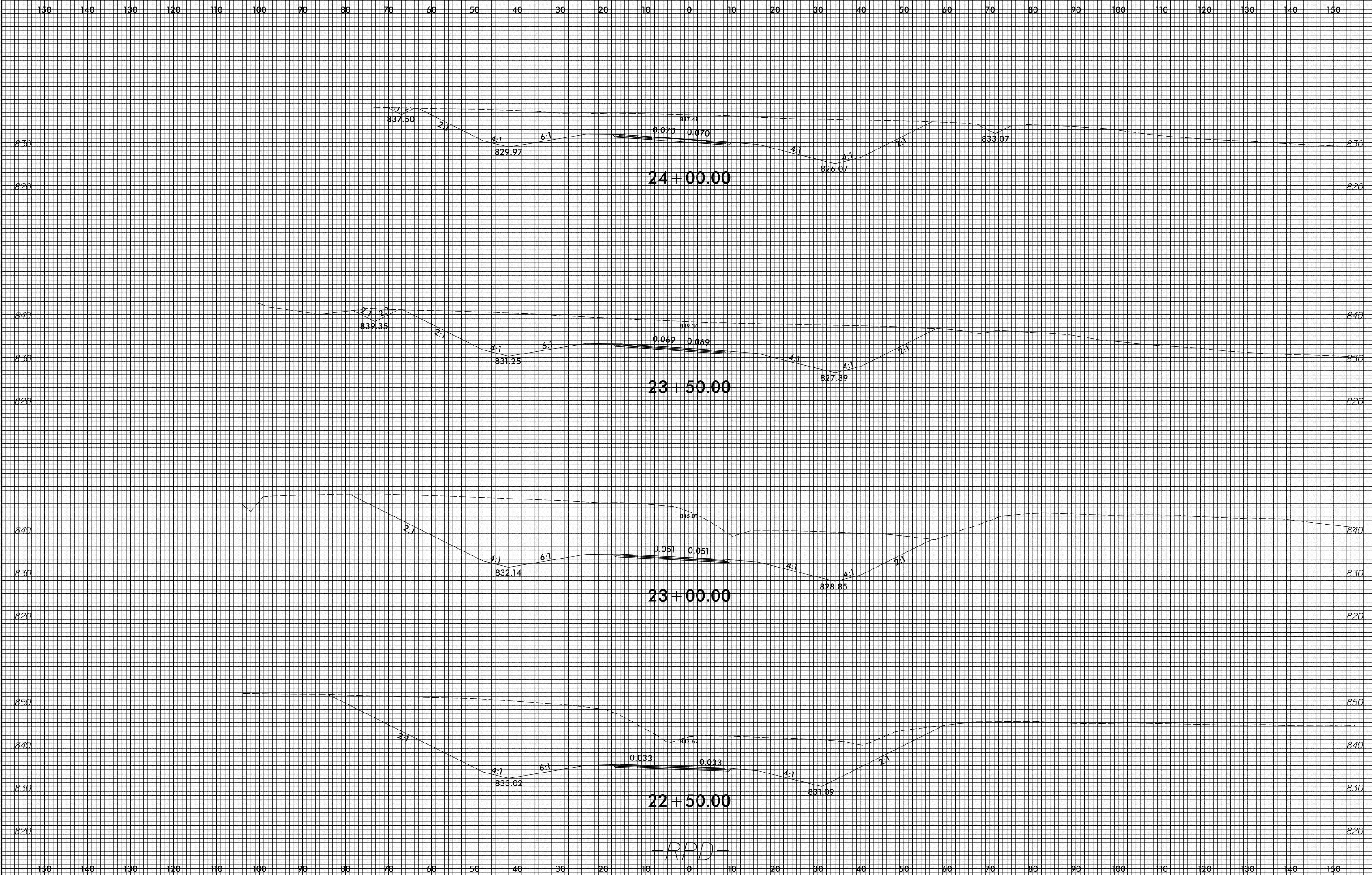








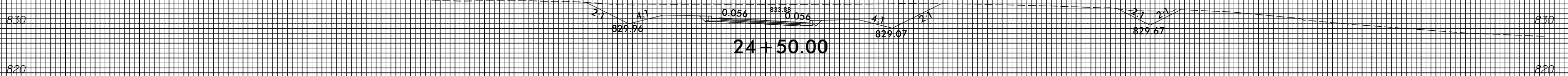
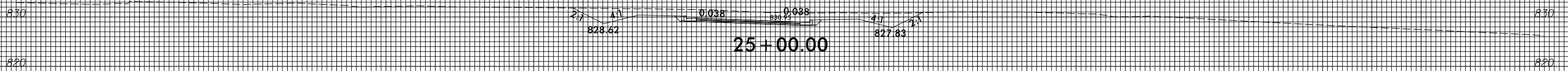
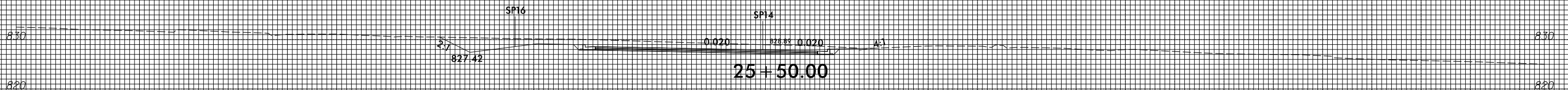
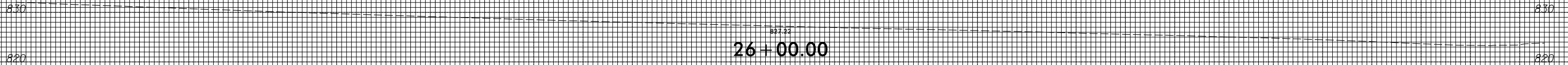




-RPD-

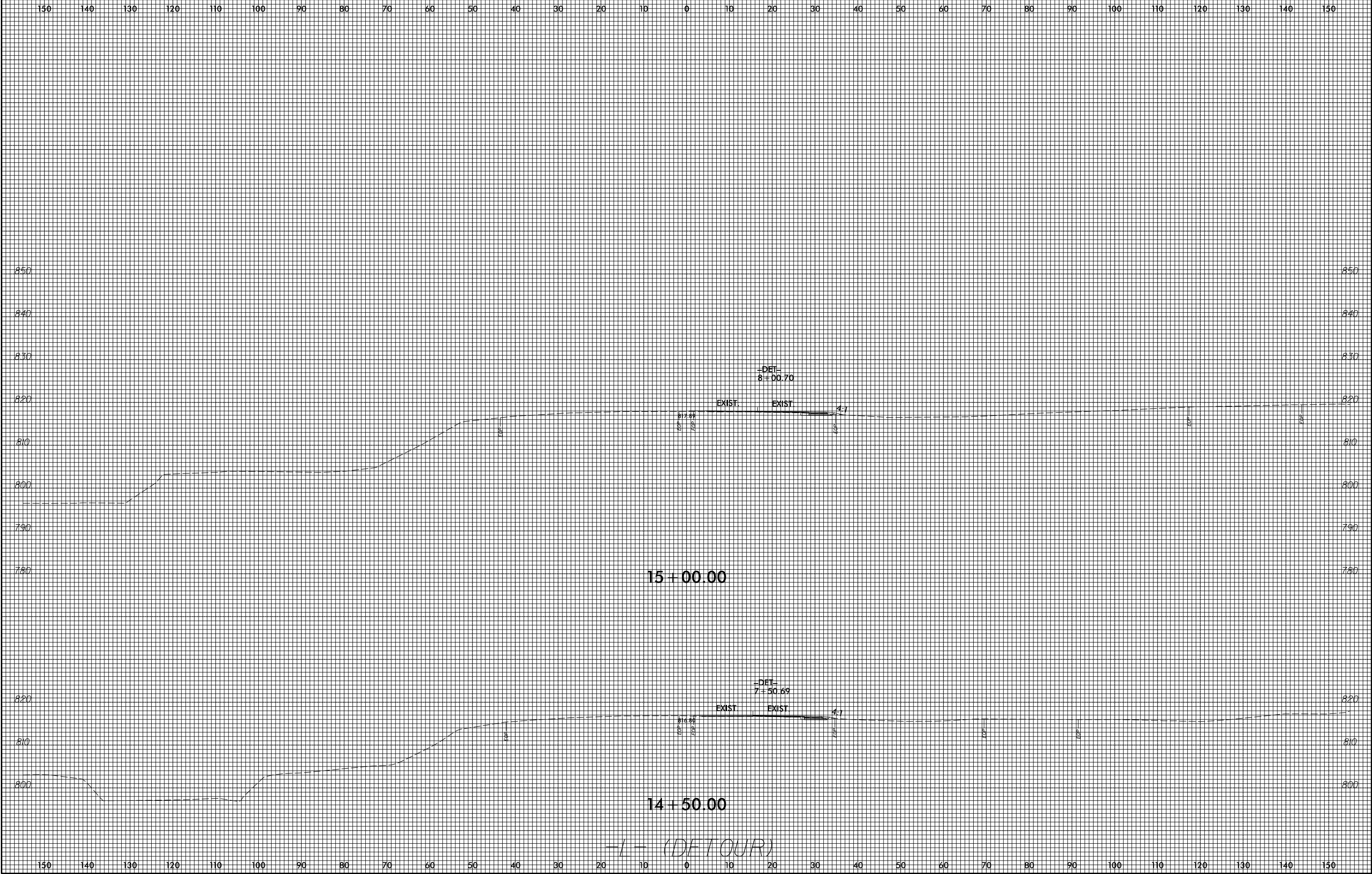


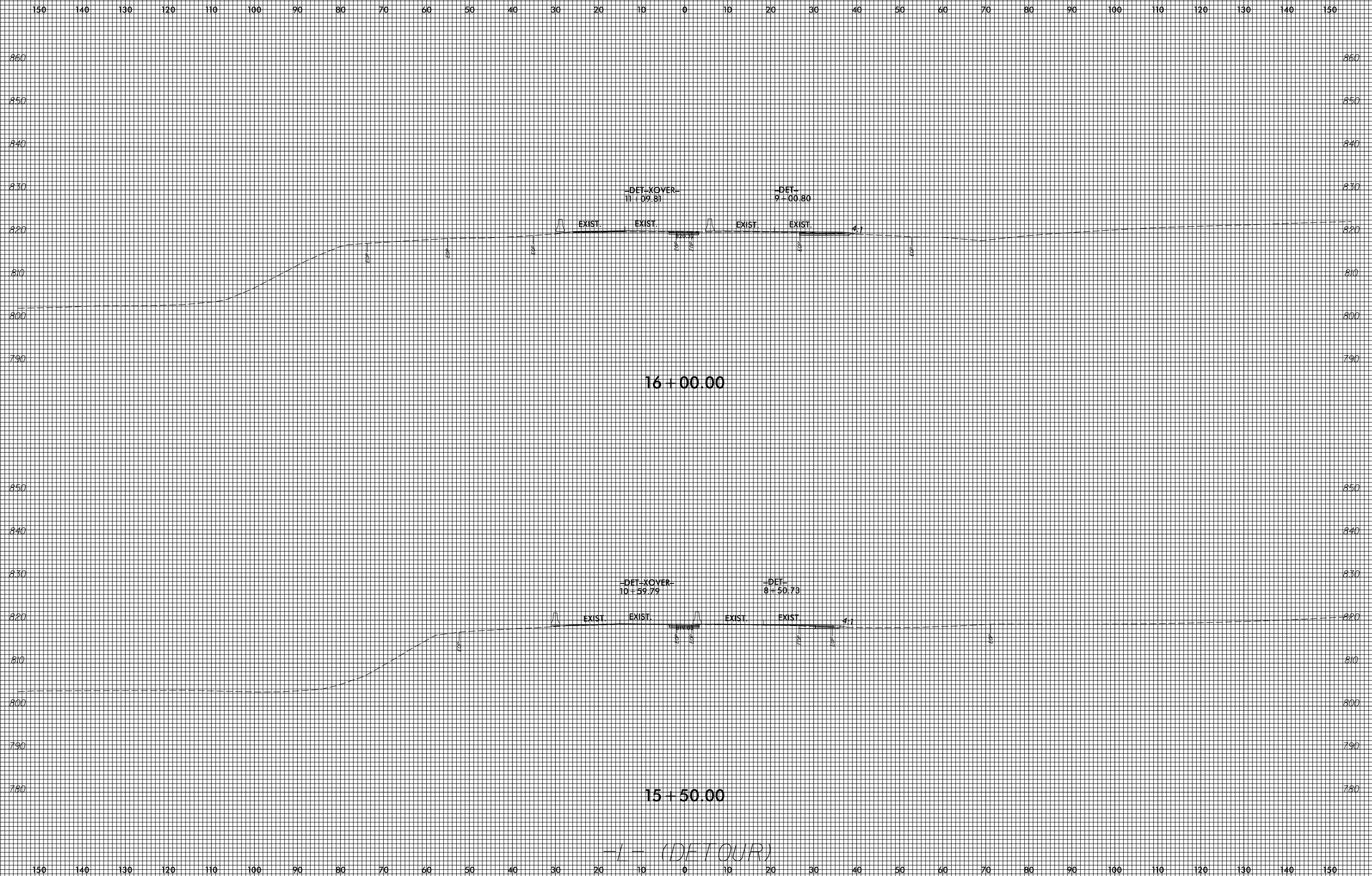
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-RPD-

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150





150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

860  
850  
840  
830  
820  
810  
800  
790

860  
850  
840  
830  
820  
810  
800  
790

DET. XOVER  
11 + 59.85

DET  
9 + 50.90

EXIST.

EXIST.

EXIST.

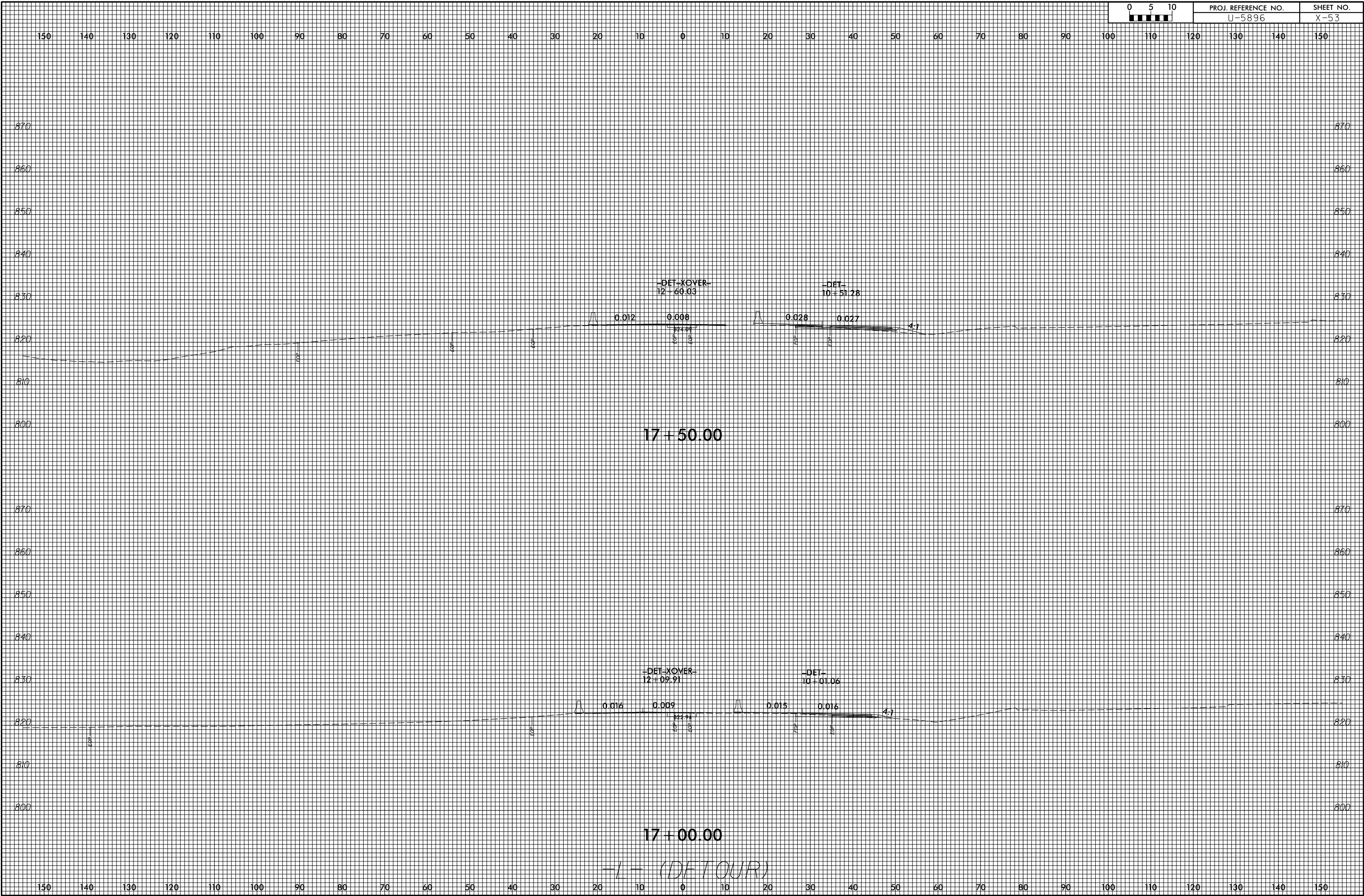
EXIST.

4:1

16 + 50.00

-I- (DETOUR)

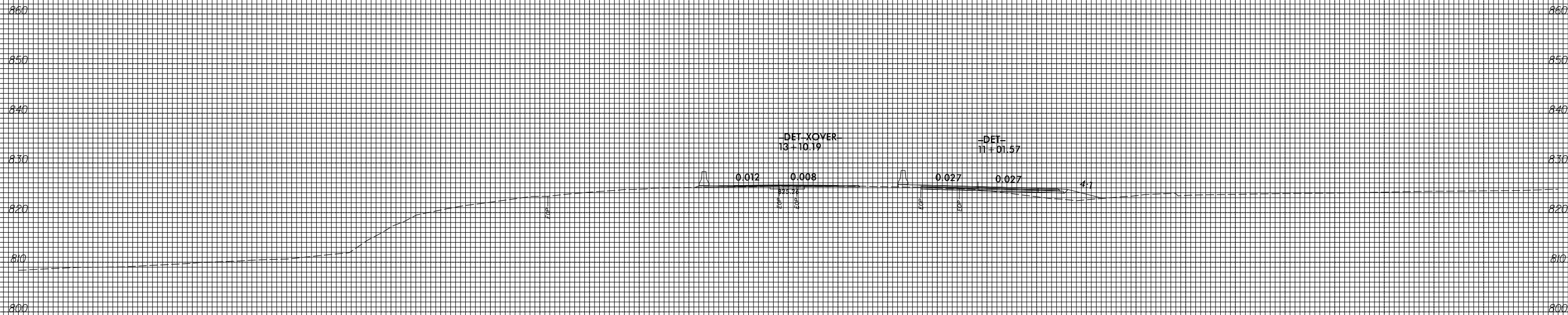
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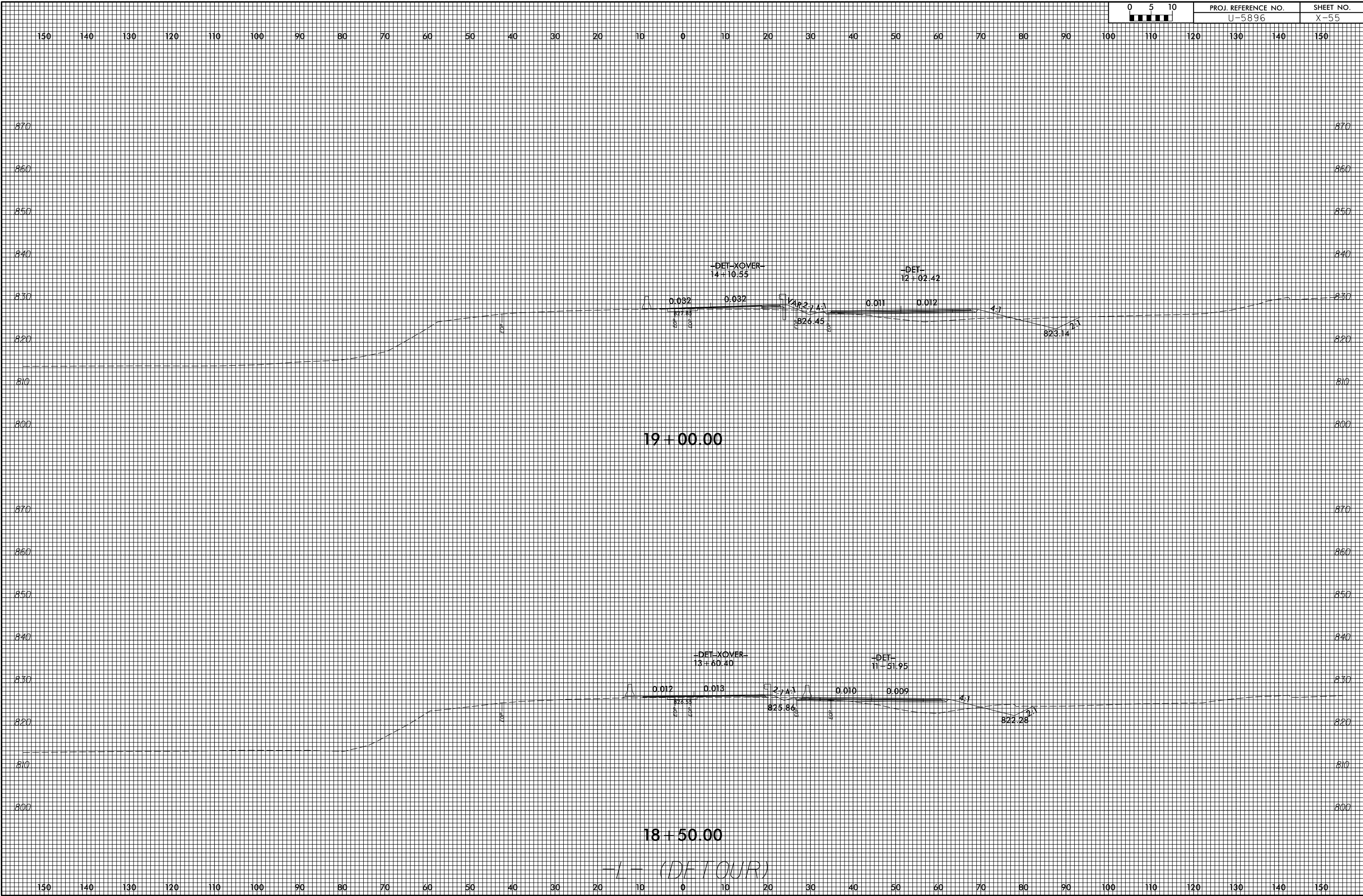
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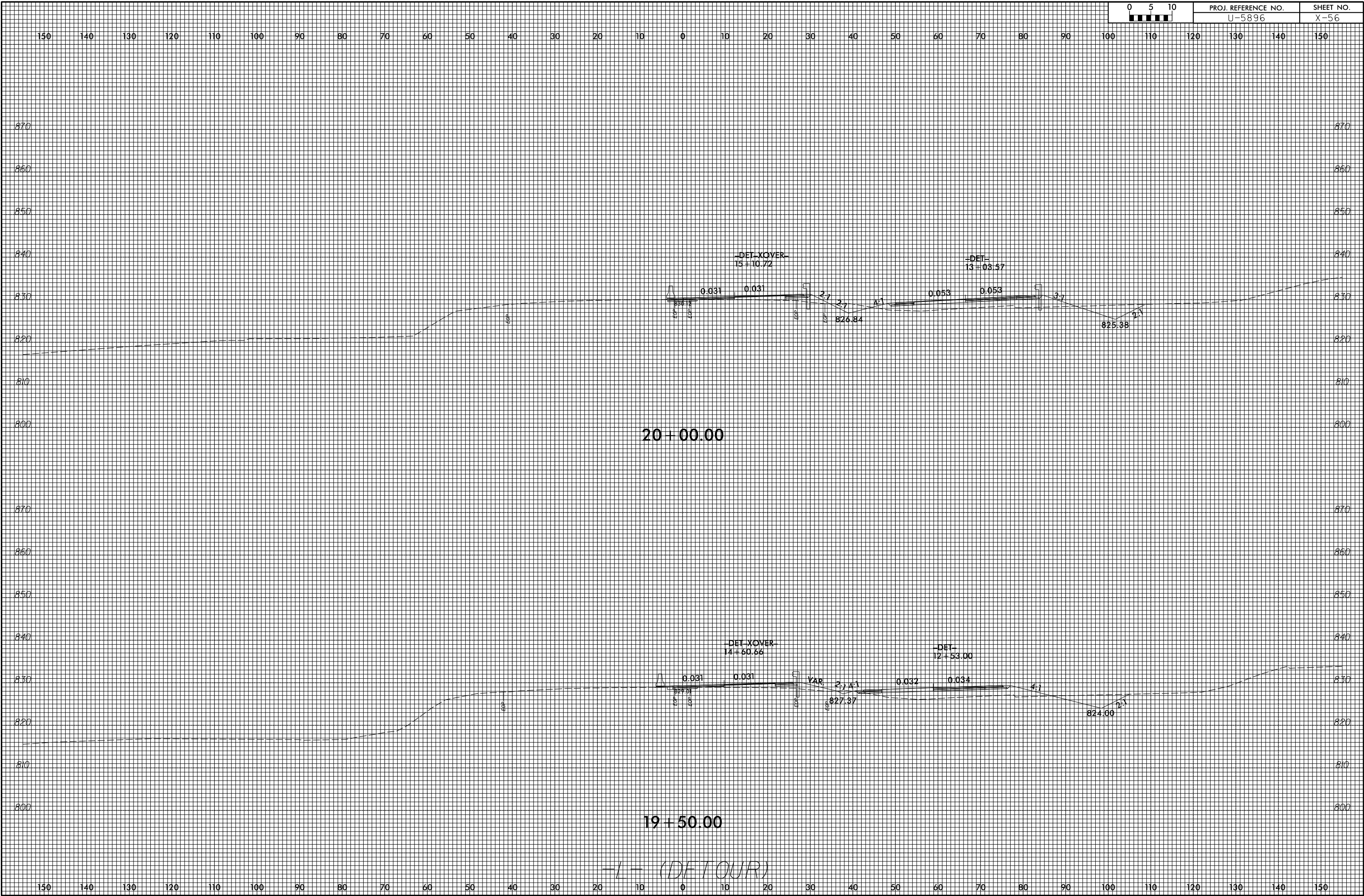


18+00.00

-1- (DETOUR)

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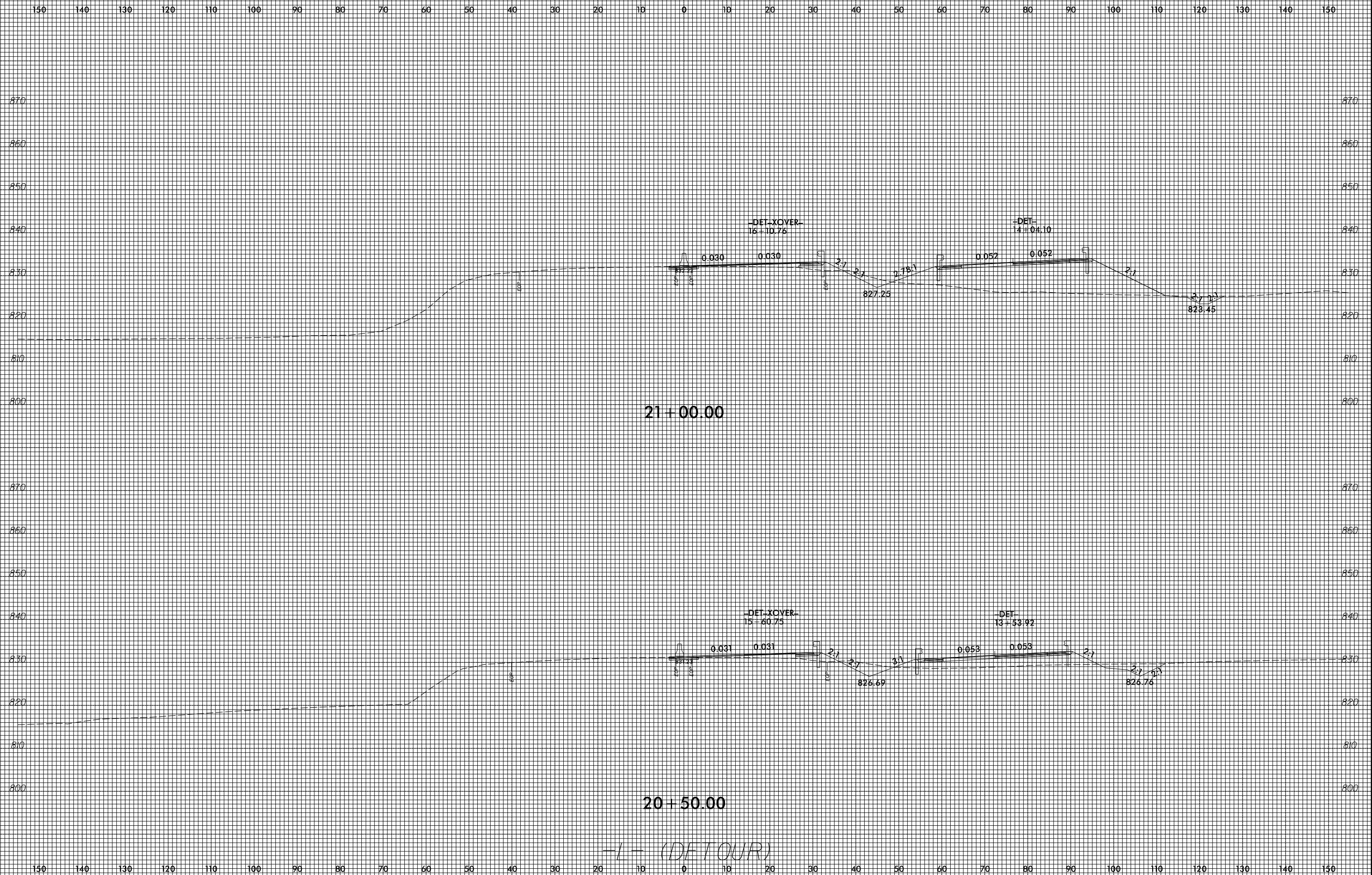


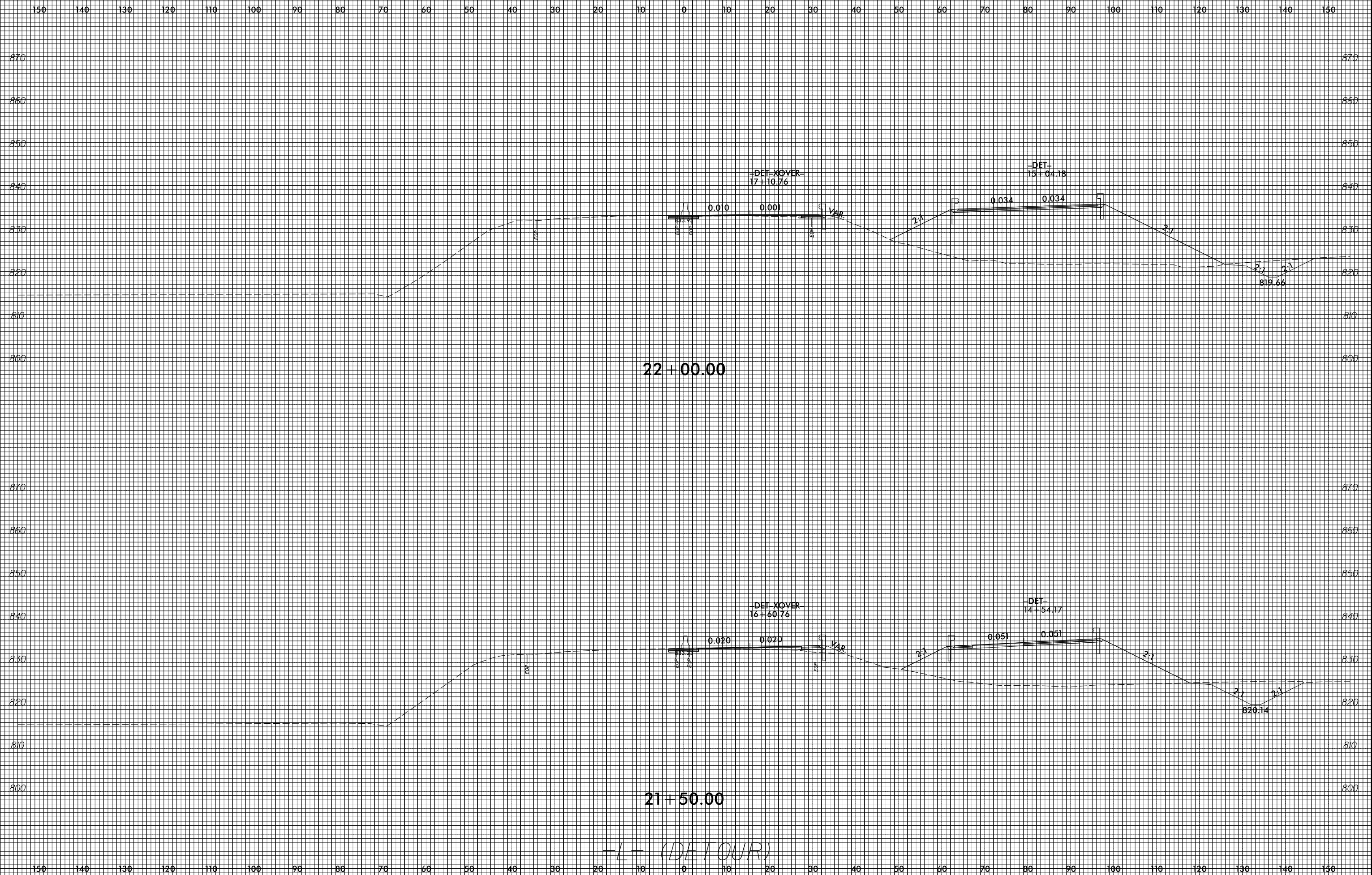


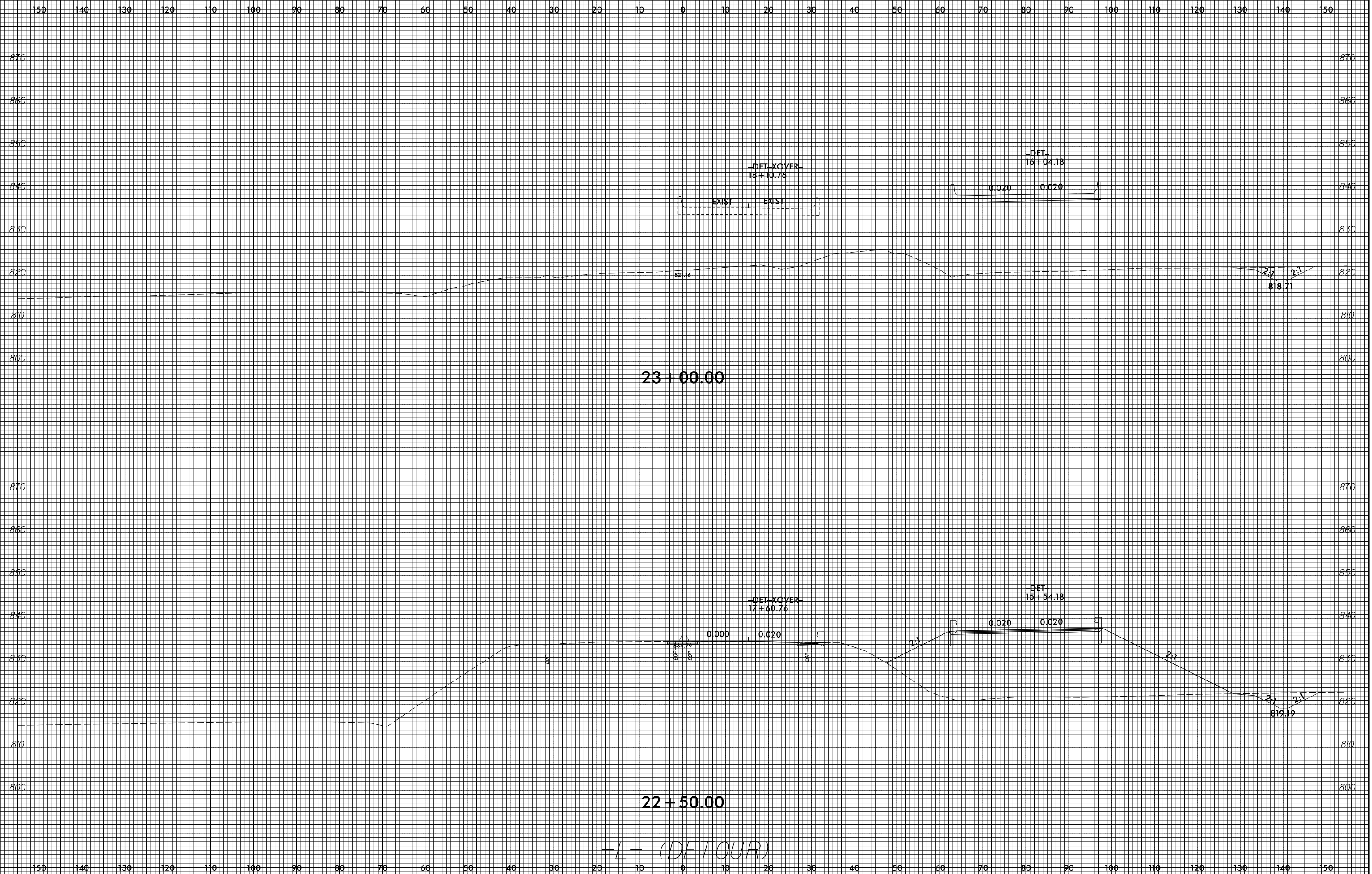
20+00.00

19+50.00

-I- (DETOUR)

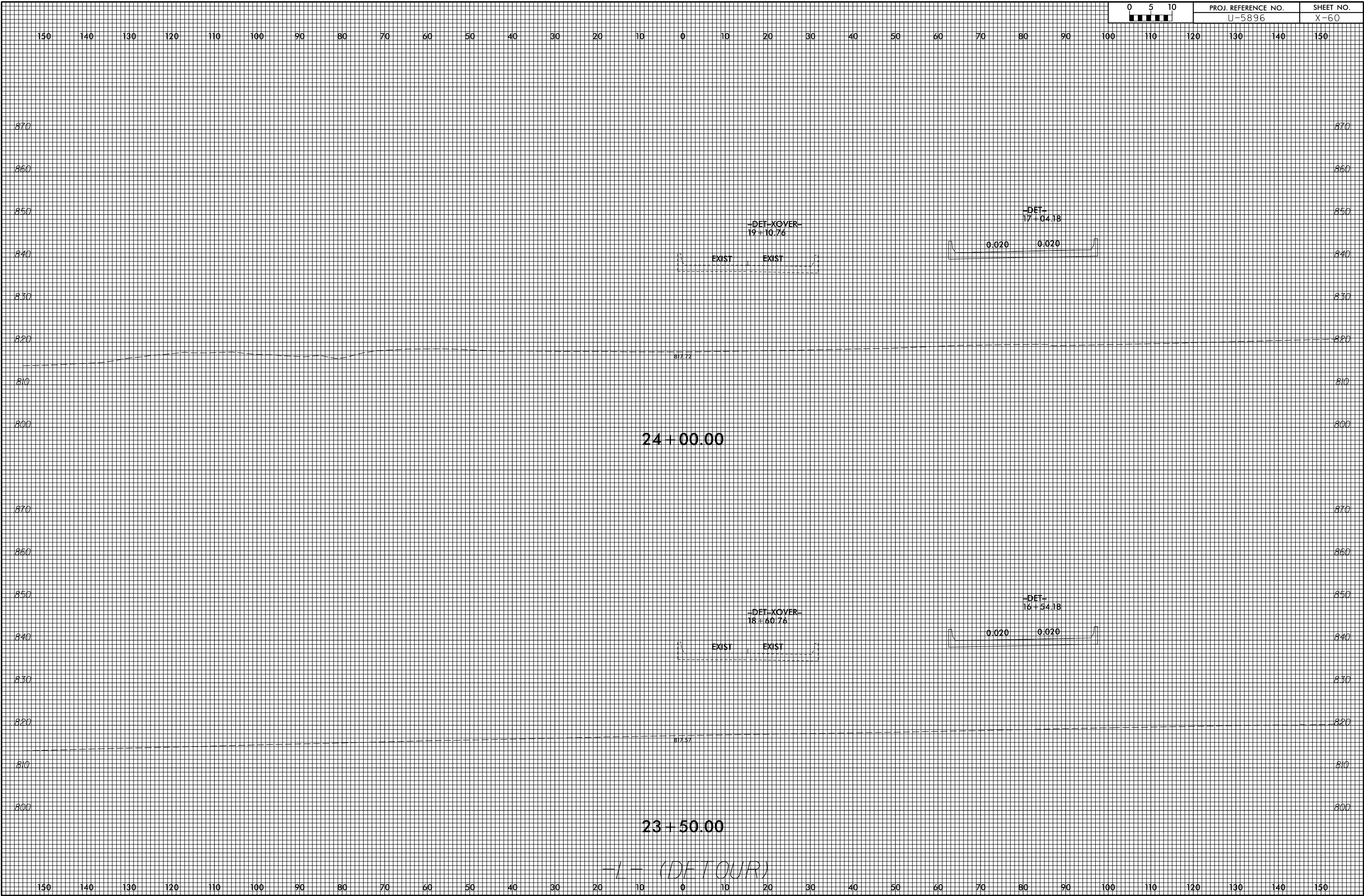


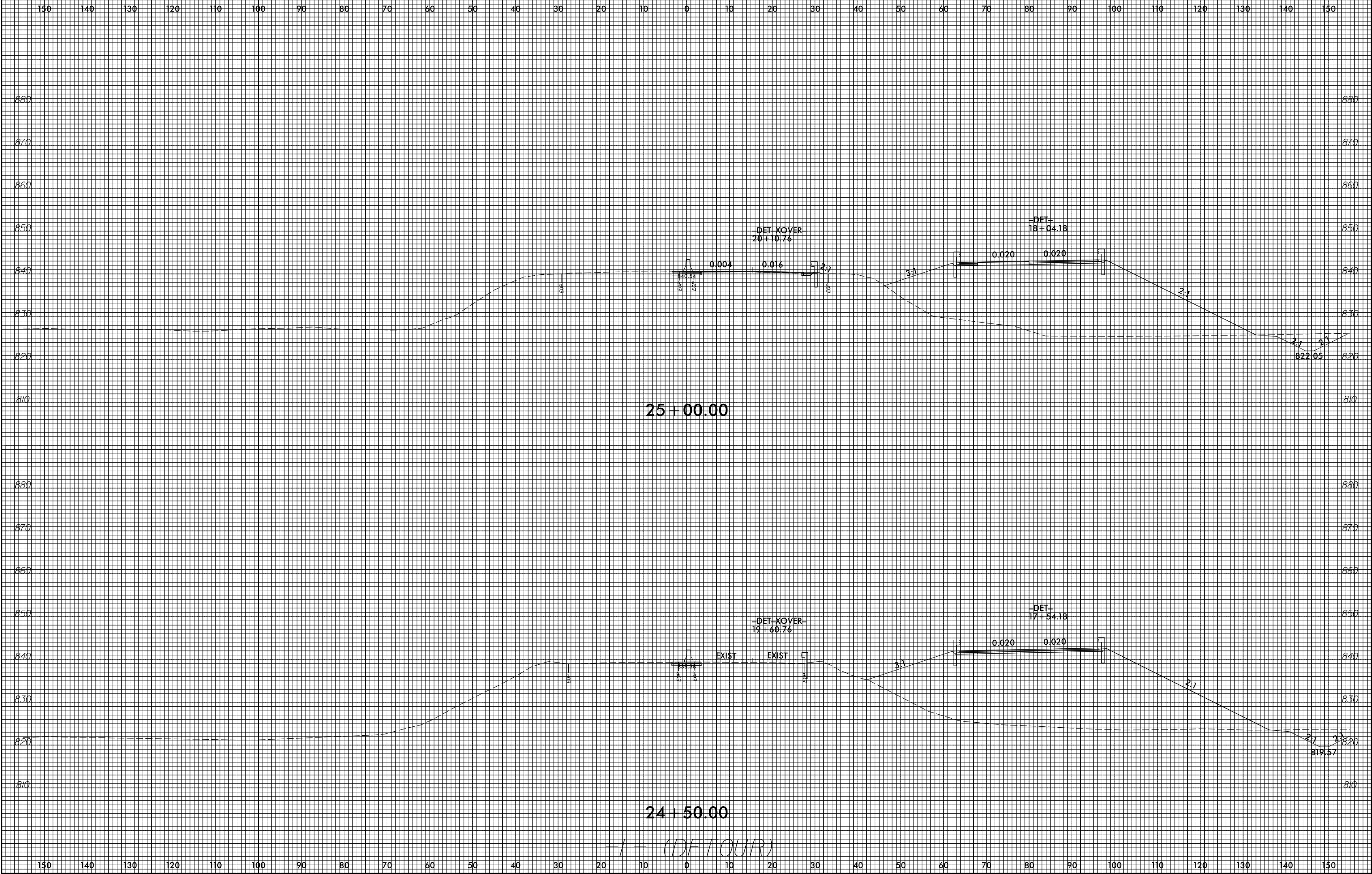




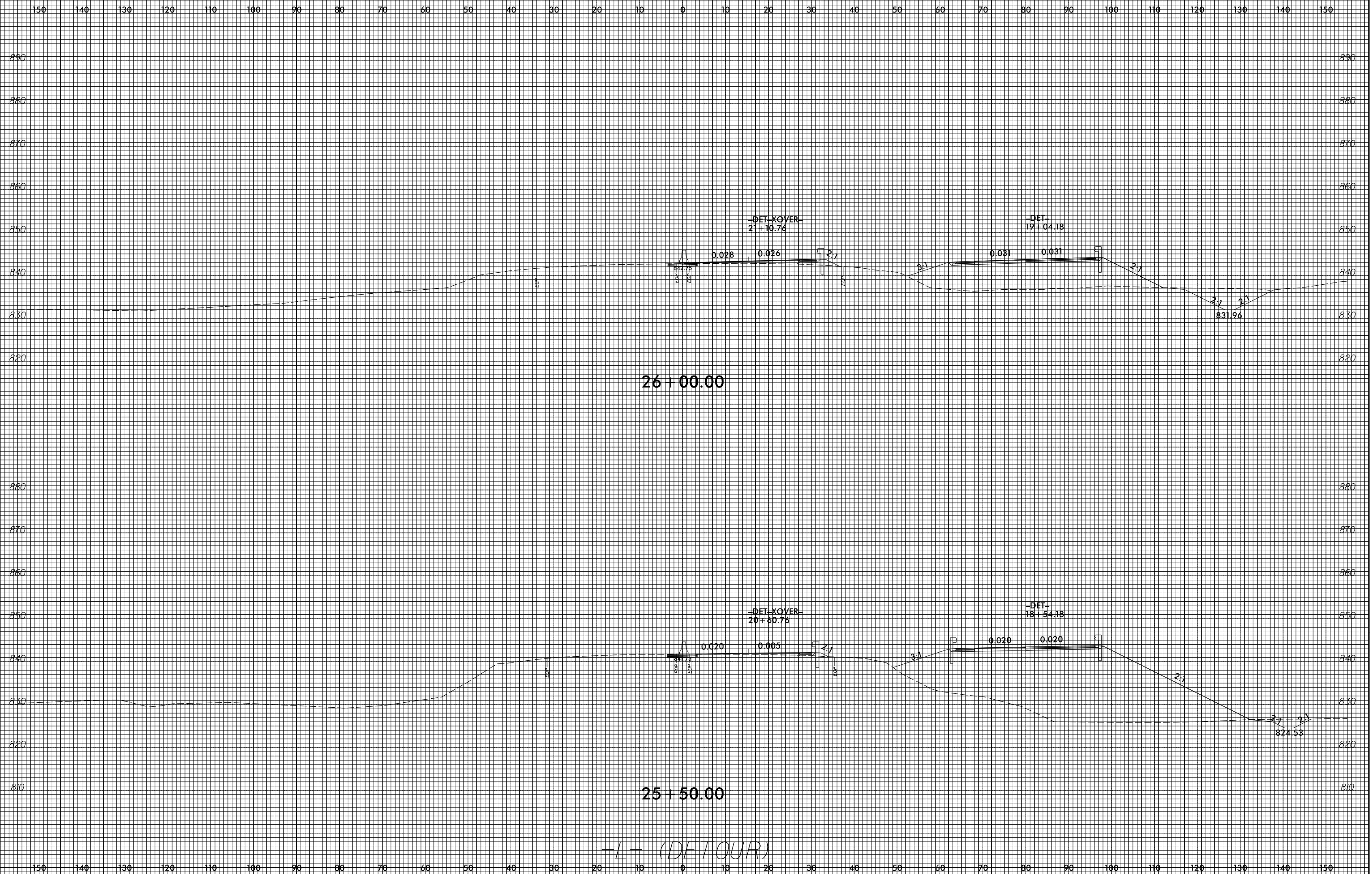
2:58:05 PM  
E:\Roadway\CorridorModeling\XPL\U-5896\_rdu\_xpl\_DET&XOVER.dgn  
JDR66165

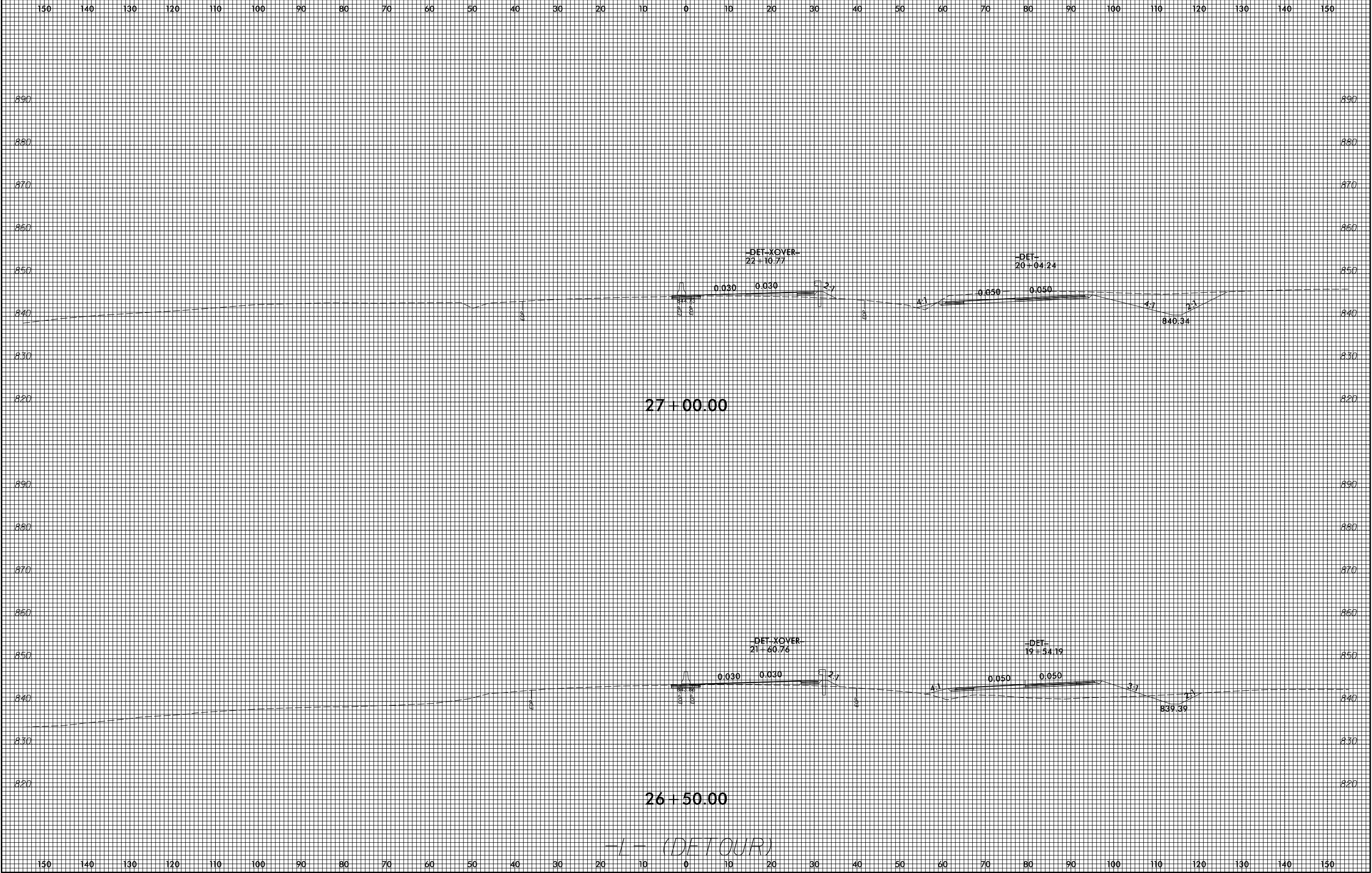
-1- (DETOUR)

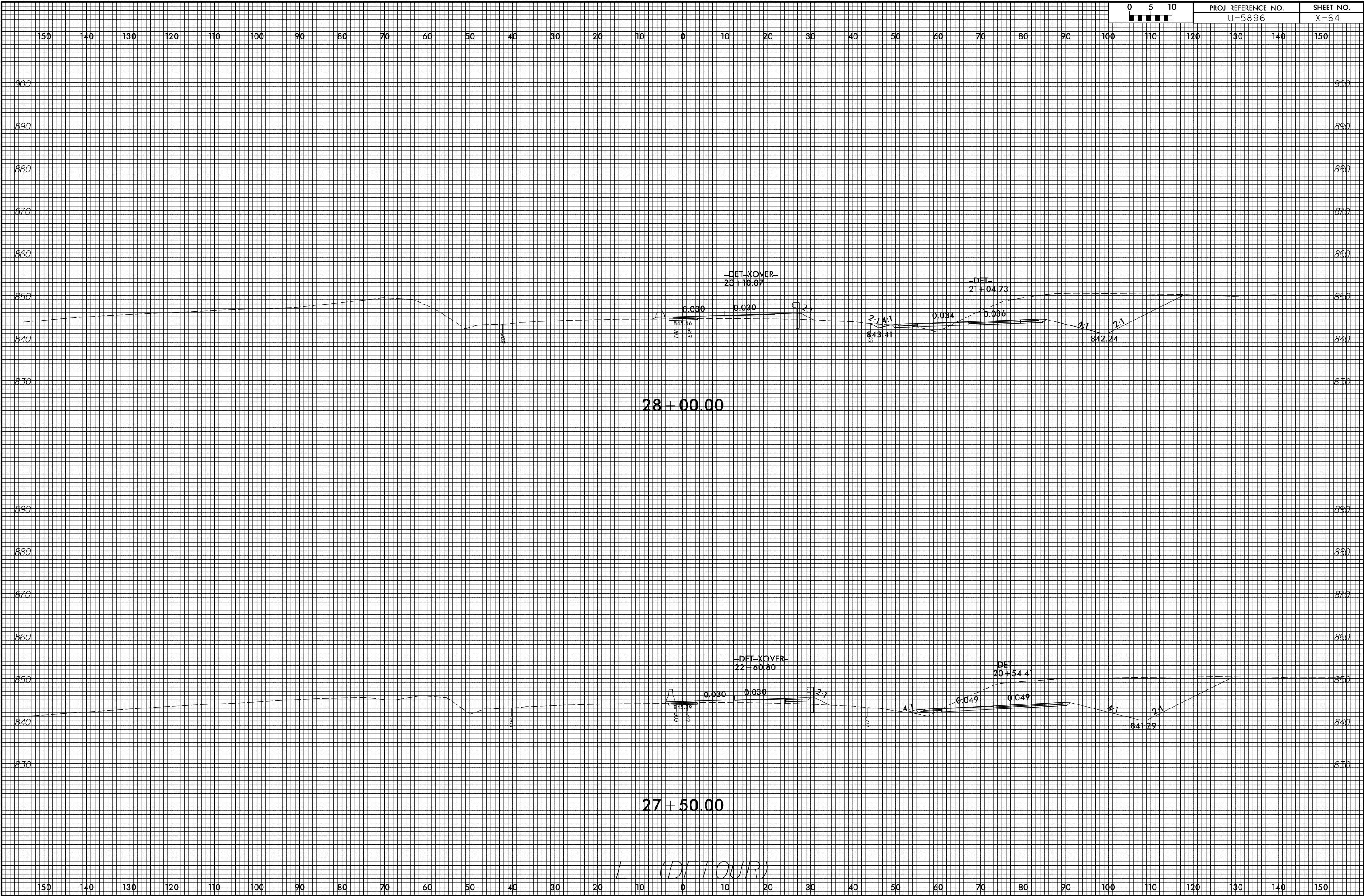


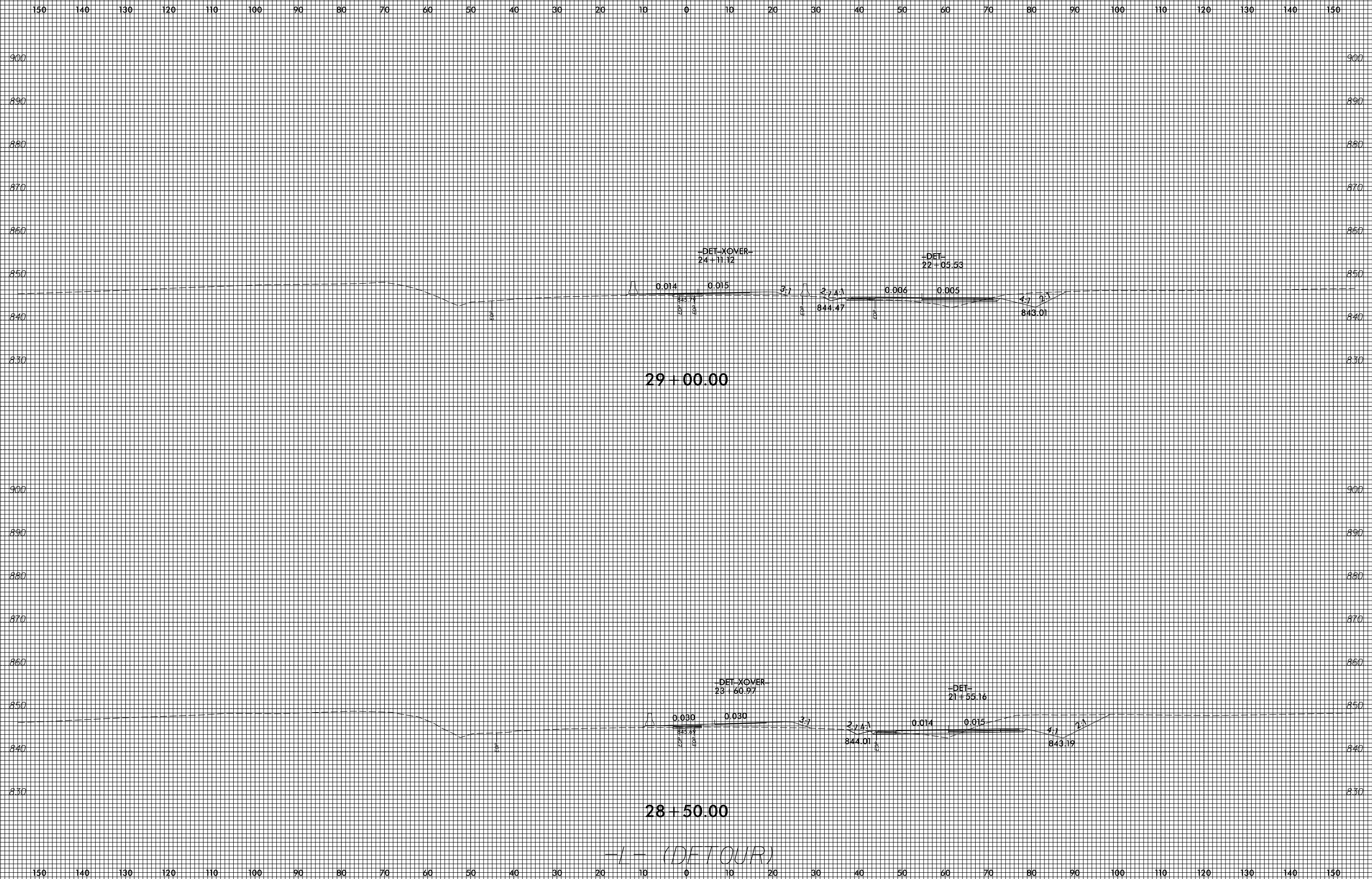


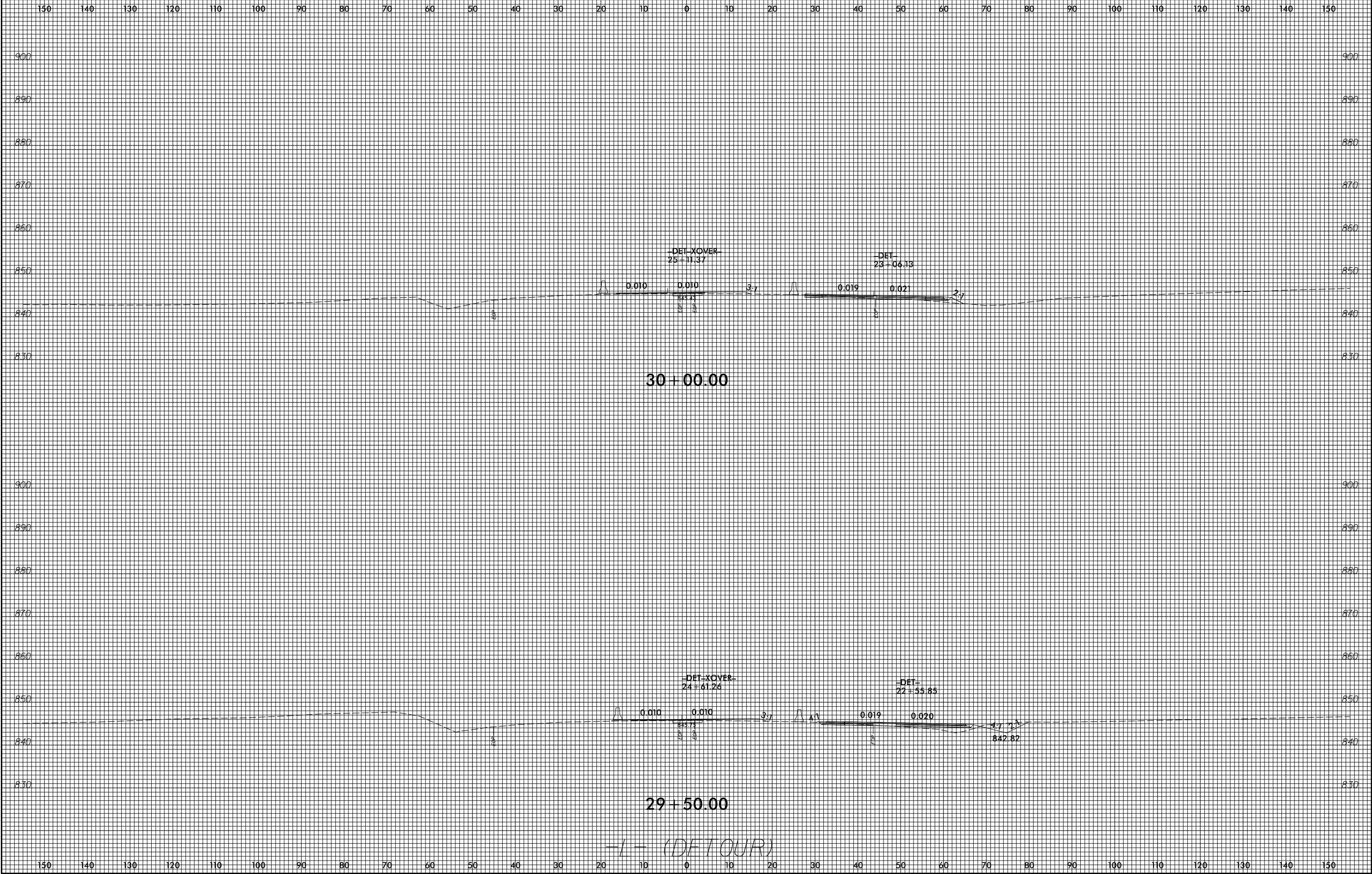


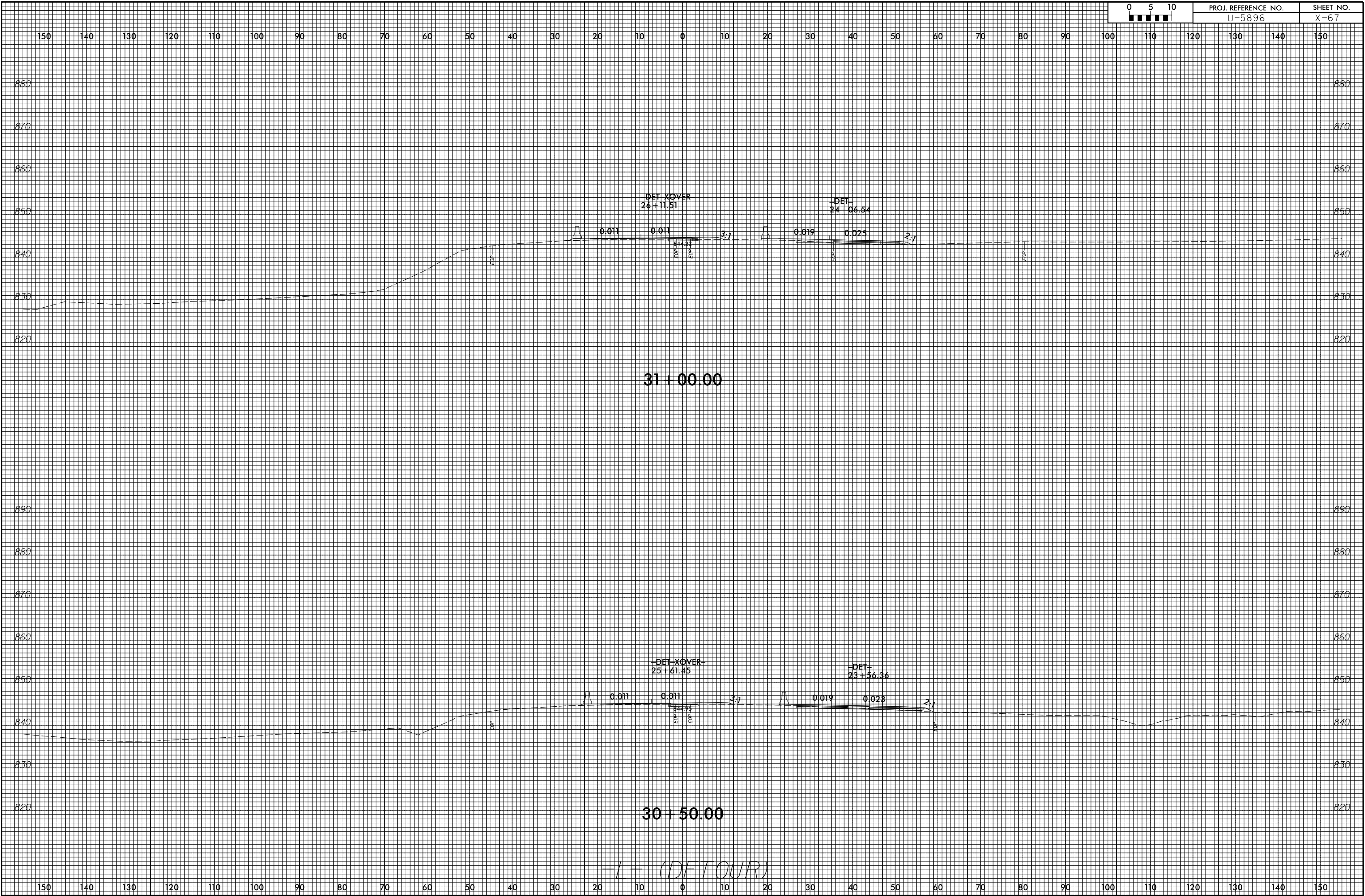


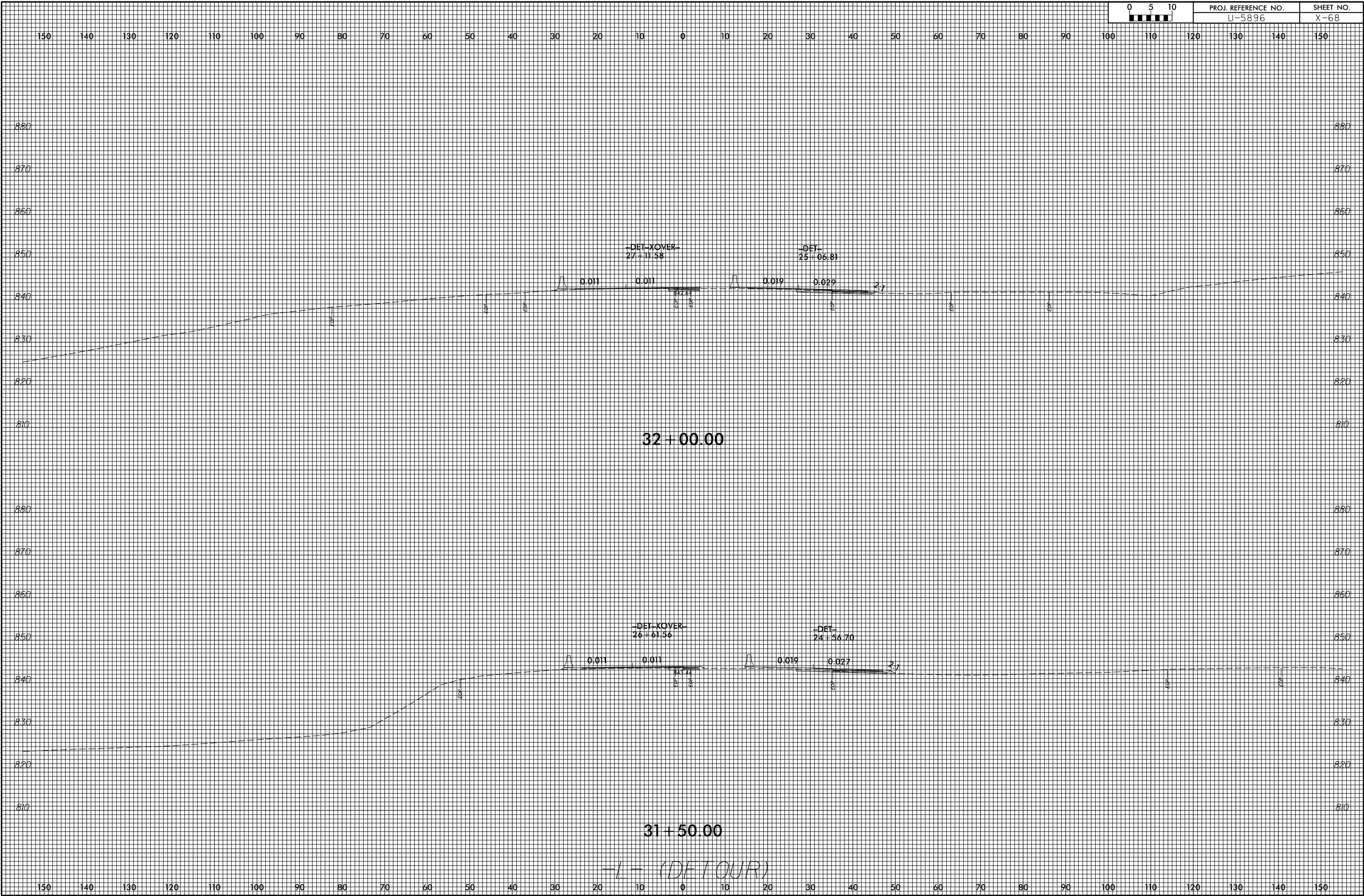


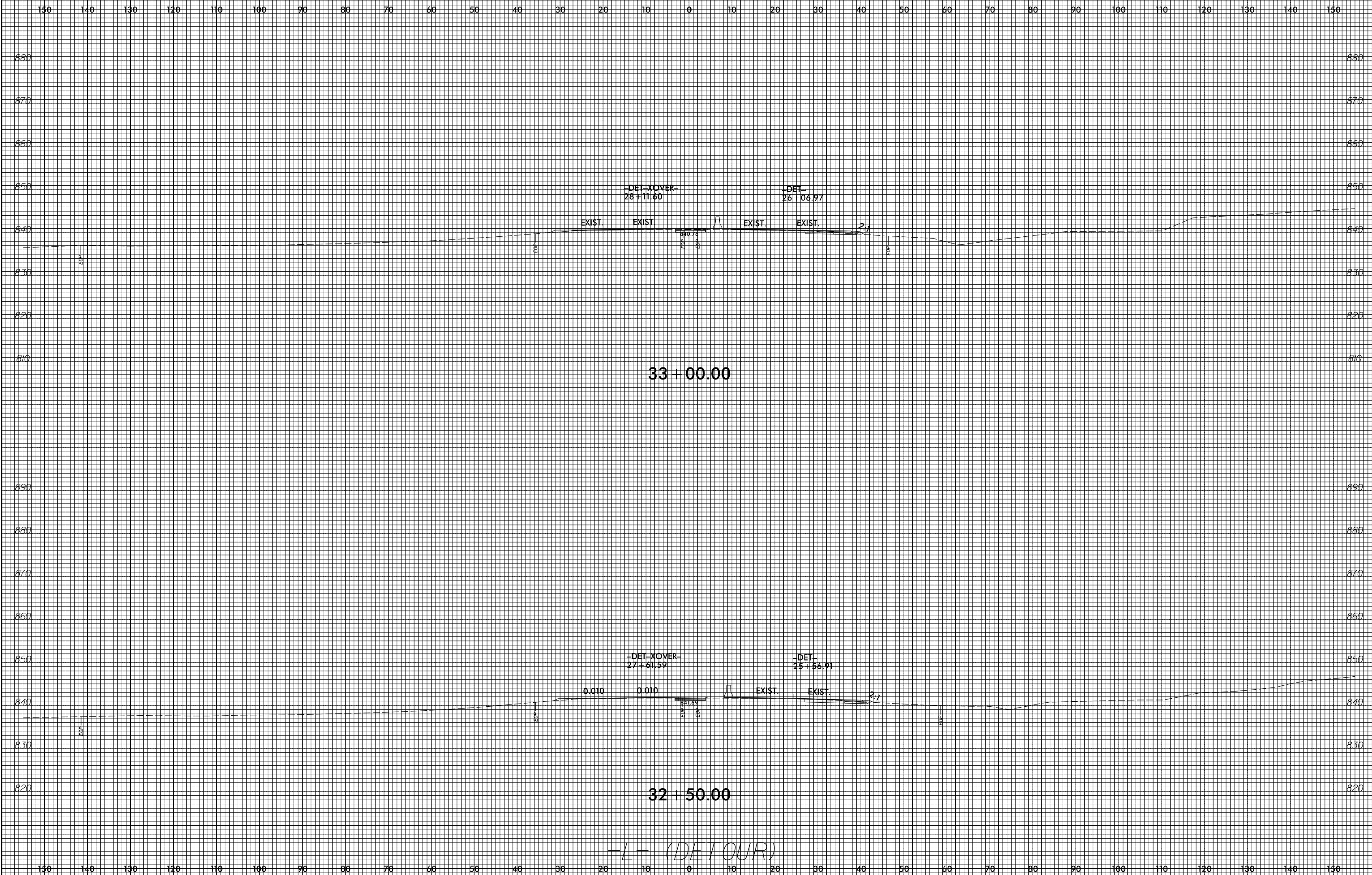








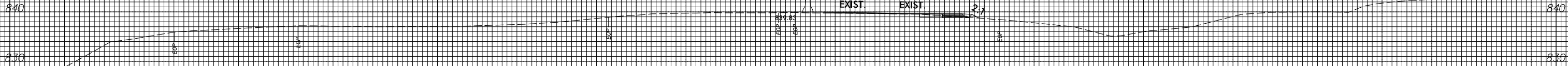








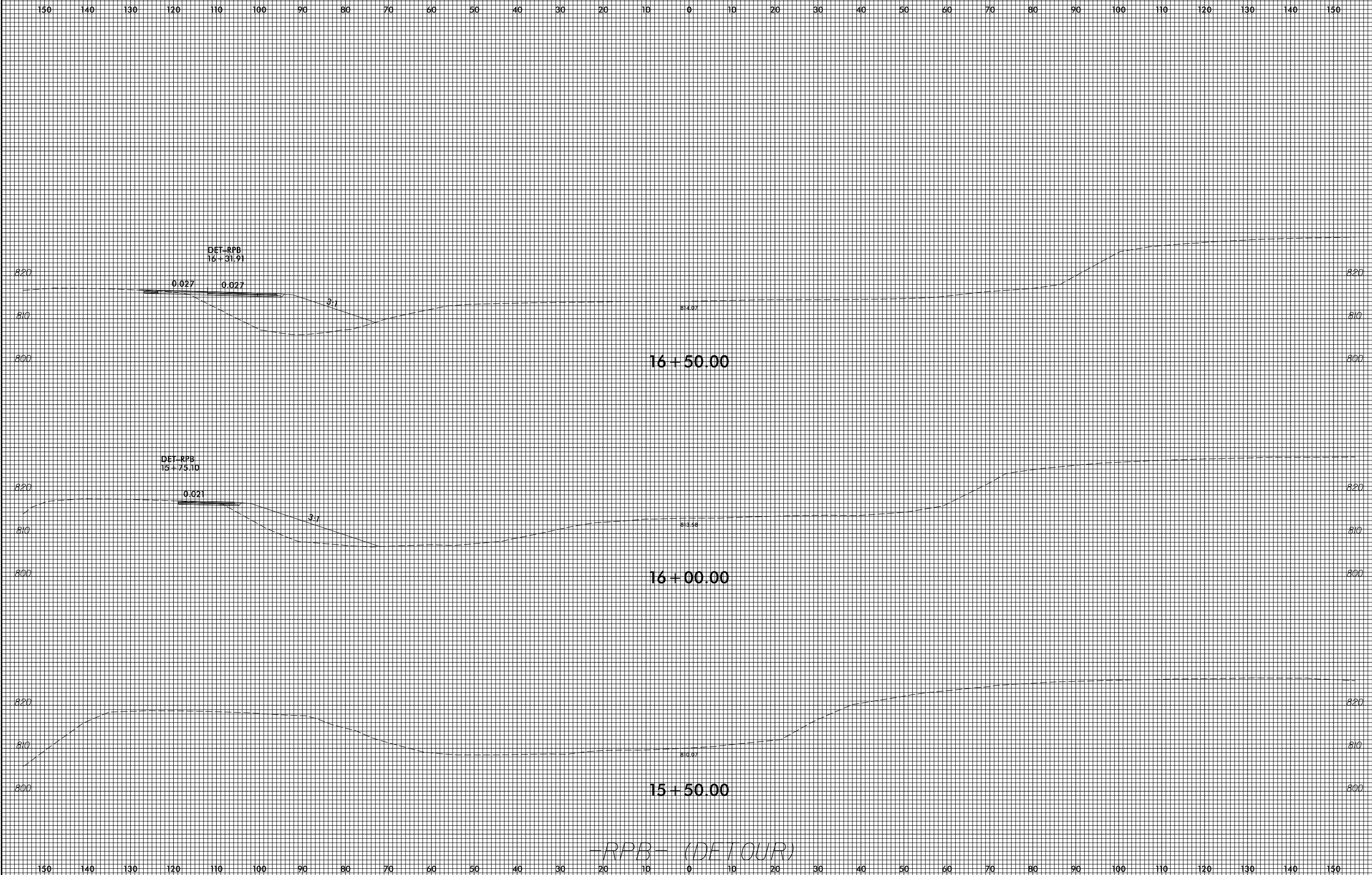
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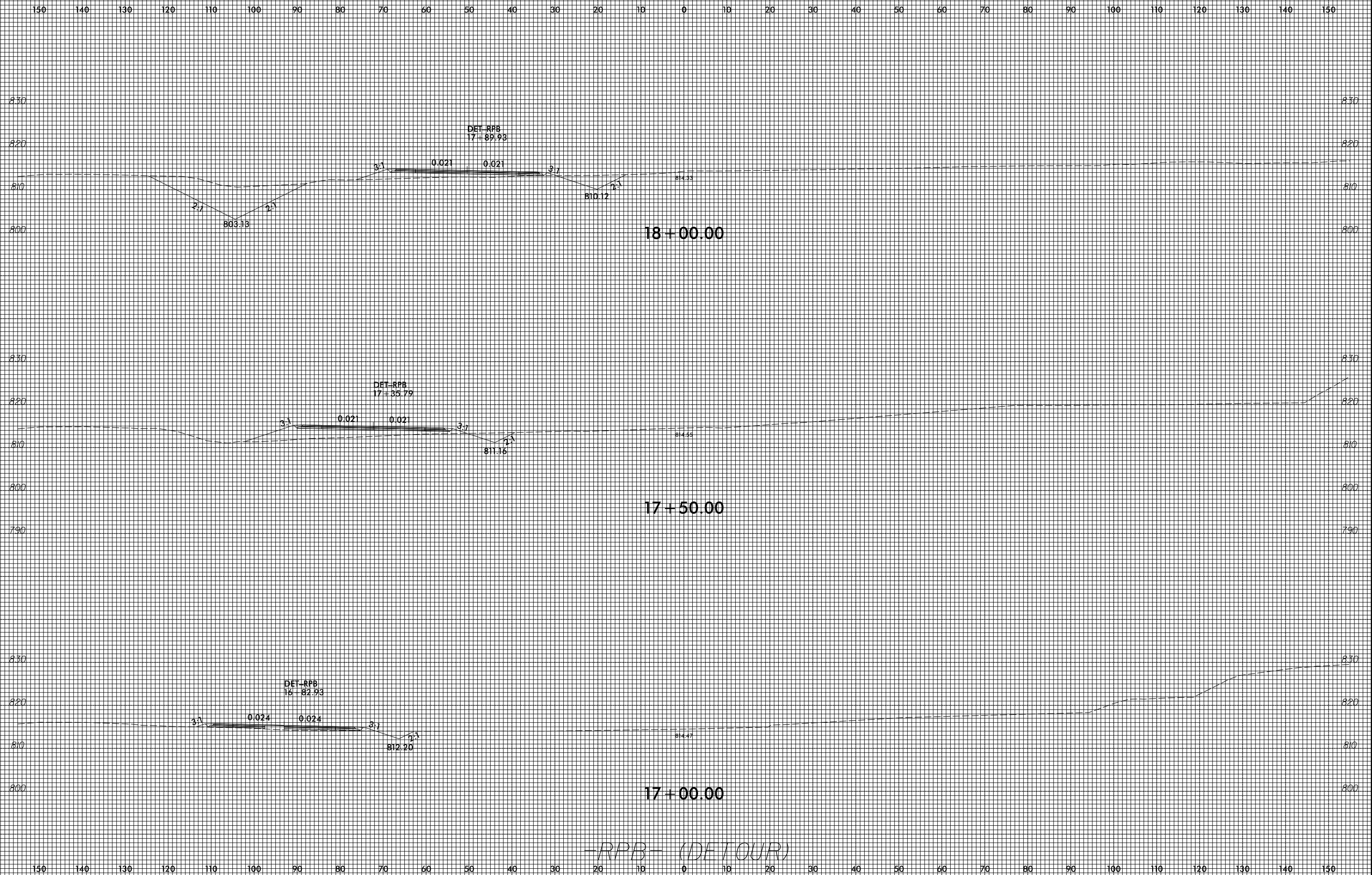
33+50.00

-1- (DETOUR)

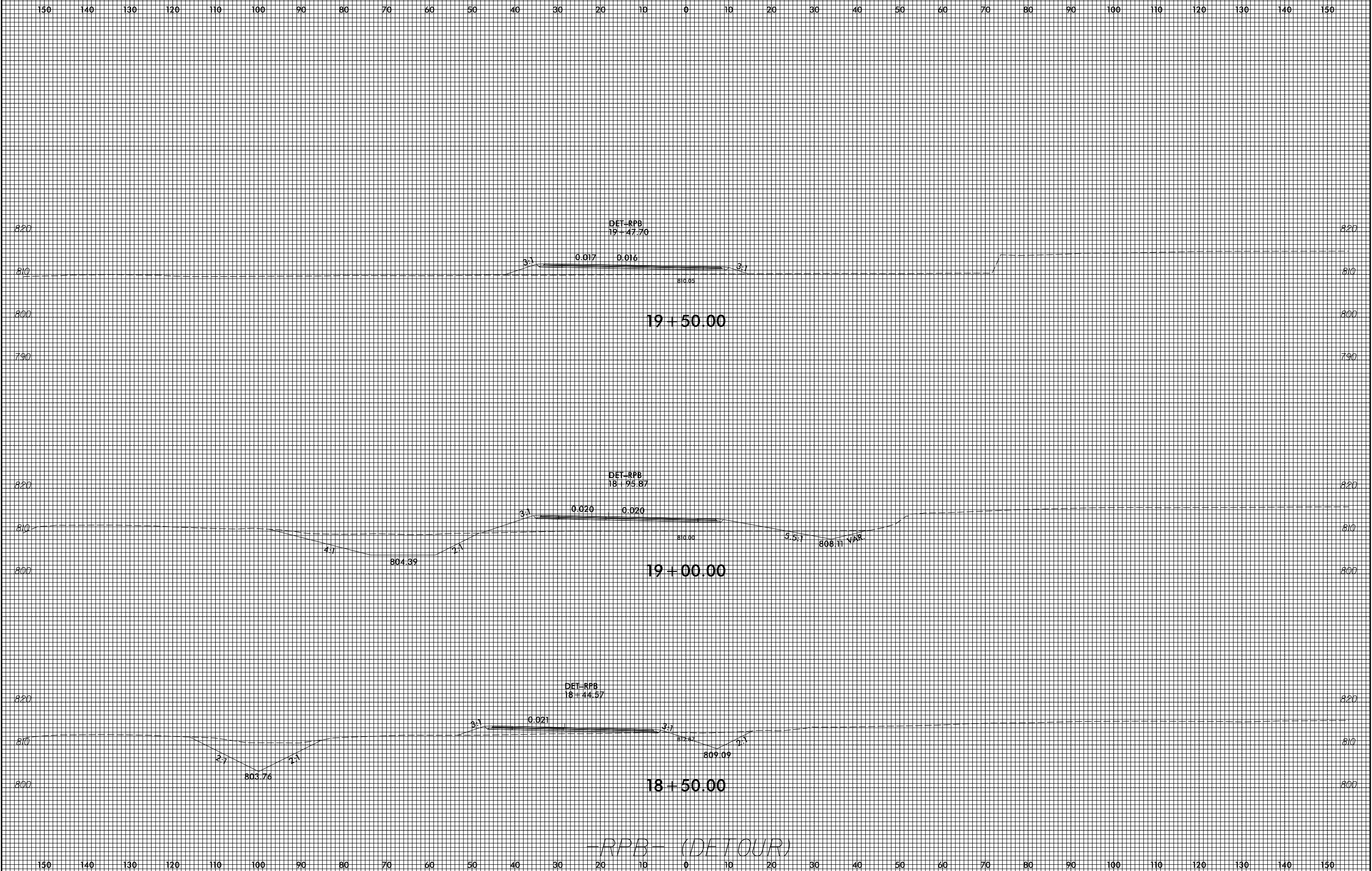
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RFB (DETOUR)

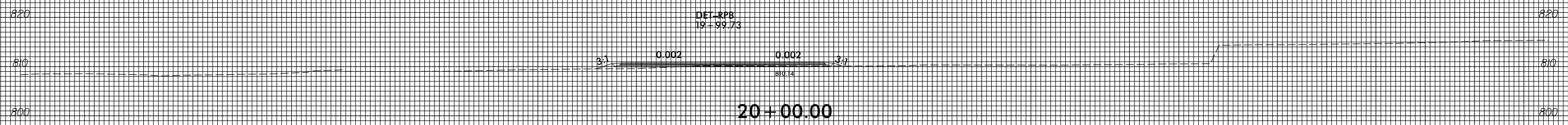
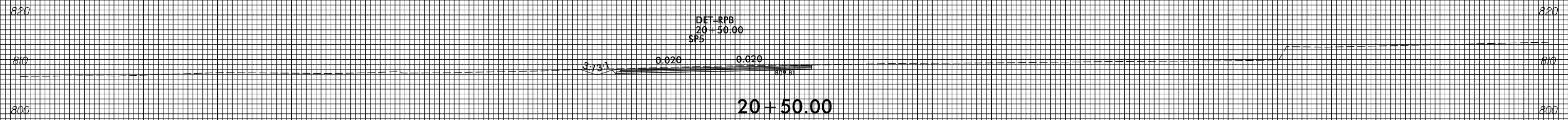
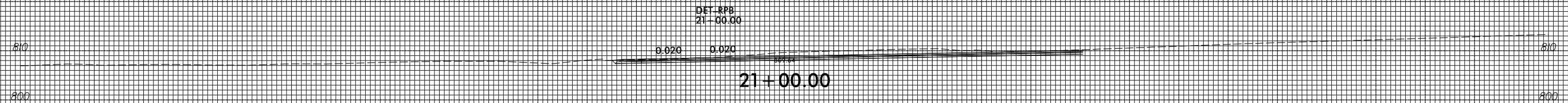


-RPB- (DETOUR)



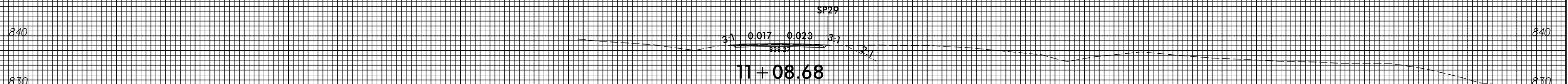
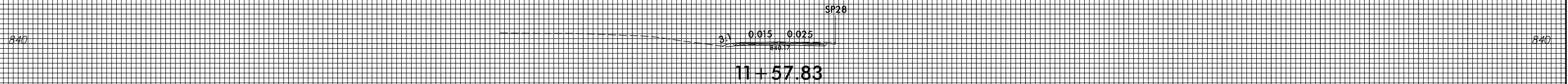
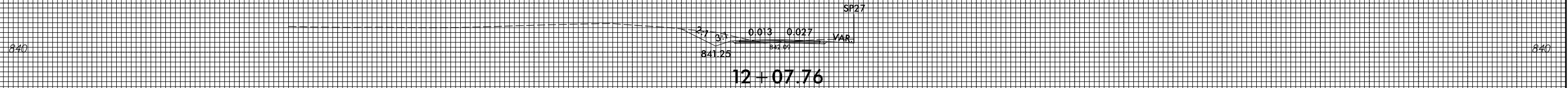
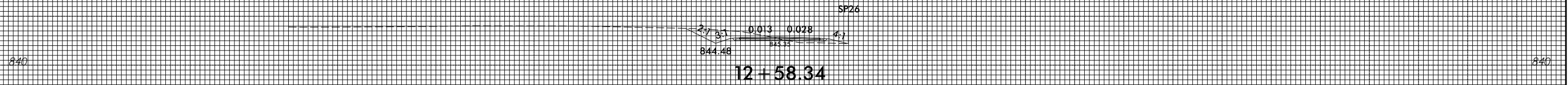
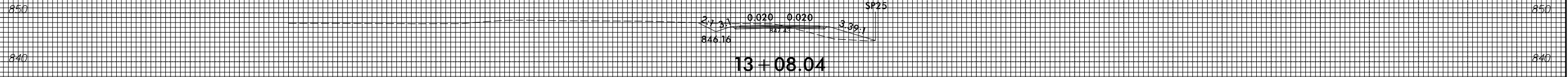
2:58:10 PM  
E:\Projects\CorridorModeling\XPL\U-5896\_rdy\_xpl\_DET\_RPB.dgn  
JDR66165

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



-RPB- (DETOUR)

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



-DRI-

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

840

850

840

840

850

840

2.7 3.1 0.020 0.020 3.7  
843.84 844.69

14 + 00.00

2.7 3.1 0.020 0.020 4.23.7  
845.19 845.70

13 + 49.85

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