PROJ. REFERENCE NO.	SHEET NO.
14C.045116	X-0

HENDERSON COUNTY
CUMMINGS ROAD SR 1171
X-SECTIONS X-1 THRU X-81

SHEETS	INDEX OF SHEETS
X-0	Index of Sheets
XSUM-1	Cross Section Summary
X-1 thru X-74	-L-
X-75 and X-76	-Y1-
X-77 and X-78	-Y2-
X-79	-Y3-
X-80	-Y4-
X-81	-Y5-

PROJECT: 14C.045116

3/10/2008
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KO & Associates, P.C.

Cross Sections prepared by:
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Consulting Engineers
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RALEIGH, N.C. 27607
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14C.045116	XSUM-1

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

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

NOTE: EMBANKMENT COLUMN DOES NOT INCLUDE BACKFILL FOR UNDERCUT

CROSS-SECTION SUMMARY

Station L	Uncl. Exc. (cu. yd.)	Embt (cu. yd.)	Station L	Uncl. Exc. (cu. yd.)	Embt (cu. yd.)	Station L	Uncl. Exc. (cu. yd.)	Embt (cu. yd.)	Station L	Uncl. Exc. (cu. yd.)	Embt (cu. yd.)	Station L	Uncl. Exc. (cu. yd.)	Embt (cu. yd.)	Station Y1	Uncl. Exc. (cu. yd.)	Embt (cu. yd.)
10+35.00	0	0	36+50.00	134	414	63+00.00	2	199	89+50.00	29	93	116+00.00	0	204	12+90.00	0	0
10+50.00	6	0	37+00.00	127	382	63+50.00	8	181	90+00.00	18	82	116+50.00	0	304	13+00.00	8	0
11+00.00	38	2	37+50.00	62	320	64+00.00	9	146	90+50.00	7	106	117+00.00	2	332	13+50.00	36	0
11+50.00	53	11	38+00.00	23	244	64+50.00	24	126	91+00.00	12	132	117+50.00	6	243	14+00.00	15	0
12+00.00	74	18	38+50.00	5	187	65+00.00	47	128	91+50.00	19	145	118+00.00	6	148	14+50.00	0	0
12+50.00	70	14	39+00.00	5	155	65+50.00	59	170	92+00.00	23	141	118+50.00	2	158			
13+00.00	77	8	39+50.00	6	141	66+00.00	70	235	92+50.00	38	114	119+00.00	0	299	**Station**	**Uncl. Exc.**	**Embt**
13+50.00	115	5	40+00.00	6	151	66+50.00	61	260	93+00.00	70	49	119+50.00	0	400			
14+00.00	146	3	40+50.00	3	175	67+00.00	41	270	93+50.00	98	17	120+00.00	0	379	**Y2**	**(cu. yd.)**	**(cu. yd.)**
14+50.00	176	1	41+00.00	0	221	67+50.00	35	234	94+00.00	75	94	120+50.00	0	340	10+11.01	0	0
15+00.00	176	0	41+50.00	0	336	68+00.00	47	144	94+50.00	22	301	121+00.00	0	293	10+50.00	0	58
15+50.00	139	0	42+00.00	0	443	68+50.00	94	100	95+00.00	4	447	121+50.00	0	246	11+00.00	14	107
16+00.00	155	2	42+50.00	0	482	69+00.00	156	133	95+50.00	8	453	122+00.00	0	200	11+50.00	19	38
16+50.00	136	2	43+00.00	3	454	69+50.00	210	182	96+00.00	10	511	122+50.00	0	149	12+00.00	5	5
17+00.00	77	0	43+50.00	15	384	70+00.00	235	285	96+50.00	8	486	123+00.00	0	99	12+50.00	0	0
17+50.00	57	9	44+00.00	34	281	70+50.00	193	318	97+00.00	9	286	123+50.00	0	87	13+00.00	0	0
18+00.00	42	38	44+50.00	49	159	71+00.00	138	218	97+50.00	48	115	124+00.00	4	140	13+50.00	0	0
18+50.00	72	43	45+00.00	45	77	71+50.00	112	220	98+00.00	142	29	124+50.00	4	246			
19+00.00	141	14	45+50.00	25	31	72+00.00	82	363	98+50.00	247	0	125+00.00	0	267	**Station**	**Uncl. Exc.**	**Embt**
19+50.00	237	0	46+00.00	9	23	72+50.00	64	457	99+00.00	313	0	125+50.00	3	190			
20+00.00	273	0	46+50.00	12	39	73+00.00	68	422	99+50.00	316	0	126+00.00	5	133	**Y3**	**(cu. yd.)**	**(cu. yd.)**
20+50.00	221	0	47+00.00	50	63	73+50.00	68	289	100+00.00	253	0	126+50.00	2	117	10+11.02	0	0
21+00.00	150	4	47+50.00	49	87	74+00.00	56	182	100+50.00	164	0	127+00.00	3	129	10+50.00	0	1
21+50.00	73	51	48+00.00	10	112	74+50.00	40	149	101+00.00	65	6	127+50.00	7	108	11+20.00	0	1
22+00.00	31	157	48+50.00	0	102	75+00.00	18	119	101+50.00	4	79	128+00.00	17	77	11+50.00	0	0
22+50.00	22	303	49+00.00	37	71	75+50.00	3	150	102+00.00	0	213	128+50.00	24	68	12+00.00	0	0
23+00.00	9	484	49+50.00	83	61	76+00.00	0	221	102+50.00	0	331	129+00.00	21	74	12+50.00	0	0
23+50.00	0	696	50+00.00	80	50	76+50.00	0	267	103+00.00	0	410	129+50.00	11	98			
24+00.00	0	836	50+50.00	79	31	77+00.00	0	318	103+50.00	0	386	130+00.00	4	94	**Station**	**Uncl. Exc.**	**Embt**
24+50.00	0	815	51+00.00	75	11	77+50.00	0	304	104+00.00	0	201	130+50.00	10	67			
25+00.00	0	838	51+50.00	34	3	78+00.00	7	242	104+50.00	53	33	131+00.00	16	56	**Y4**	**(cu. yd.)**	**(cu. yd.)**
25+50.00	0	818	52+00.00	9	9	78+50.00	61	207	105+00.00	98	1	131+50.00	14	72	10+11.18	0	0
26+00.00	0	620	52+50.00	22	15	79+00.00	136	164	105+50.00	58	18	132+00.00	13	66	10+50.00	23	0
26+50.00	0	388	53+00.00	27	13	79+50.00	159	151	106+00.00	13	97	132+50.00	19	29	11+00.00	29	0
27+00.00	11	162	53+50.00	11	24	80+00.00	119	237	106+50.00	0	233	133+00.00	20	121	11+50.00	0	0
27+50.00	49	39	54+00.00	13	18	80+50.00	69	401	107+00.00	0	338	133+50.00	32	114	12+00.00	0	0
28+00.00	91	43	54+50.00	56	0	81+00.00	55	447	107+50.00	0	476	134+00.00	32	1	12+50.00	0	0
28+50.00	70	143	55+00.00	61	1	81+50.00	170	357	108+00.00	5	488	134+50.00	17	39	13+00.00	0	0
29+00.00	30	119	55+50.00	30	4	82+00.00	467	174	108+50.00	11	362	135+00.00	16	73			
29+50.00	26	130	56+00.00	21	10	82+50.00	722	48	109+00.00	7	314	135+50.00	13	65	**Station**	**Uncl. Exc.**	**Embt**
30+00.00	28	239	56+50.00	13	33	83+00.00	739	61	109+50.00	2	278	136+00.00	9	46			
30+50.00	37	259	57+00.00	15	65	83+50.00	738	42	110+00.00	1	227	136+50.00	29	45	**Y5**	**(cu. yd.)**	**(cu. yd.)**
31+00.00	40	281	57+50.00	17	70	84+00.00	636	7	110+50.00	3	128	137+00.00	83	37	10+11.02	0	0
31+50.00	22	292	58+00.00	13	56	84+50.00	315	8	111+00.00	44	31	137+50.00	120	30	10+50.00	0	0
32+00.00	15	276	58+50.00	5	46	85+00.00	153	11	111+50.00	164	0	138+00.00	140	32	11+00.00	0	0
32+50.00	22	283	59+00.00	33	42	85+50.00	155	5	112+00.00	307	0	138+50.00	138	11	11+50.00	0	0
33+00.00	44	371	59+50.00	82	42	86+00.00	165	6	112+50.00	368	0	139+00.00	90	0	12+00.00	0	0
33+50.00	70	413	60+00.00	102	58	86+50.00	179	46	113+00.00	311	12	139+20.00	12	0	12+50.00	0	0
34+00.00	69	375	60+50.00	84	74	87+00.00	210	83	113+50.00	212	33				13+00.00	0	0
34+50.00	52	337	61+00.00	38	84	87+50.00	233	87	114+00.00	130	40						
35+00.00	42	309	61+50.00	45	98	88+00.00	199	76	114+50.00	60	42						
35+50.00	34	313	62+00.00	41	147	88+50.00	121	37	115+00.00	38	66						
36+00.00	61	377	62+50.00	1	193	89+00.00	50	68	115+50.00	22	119						

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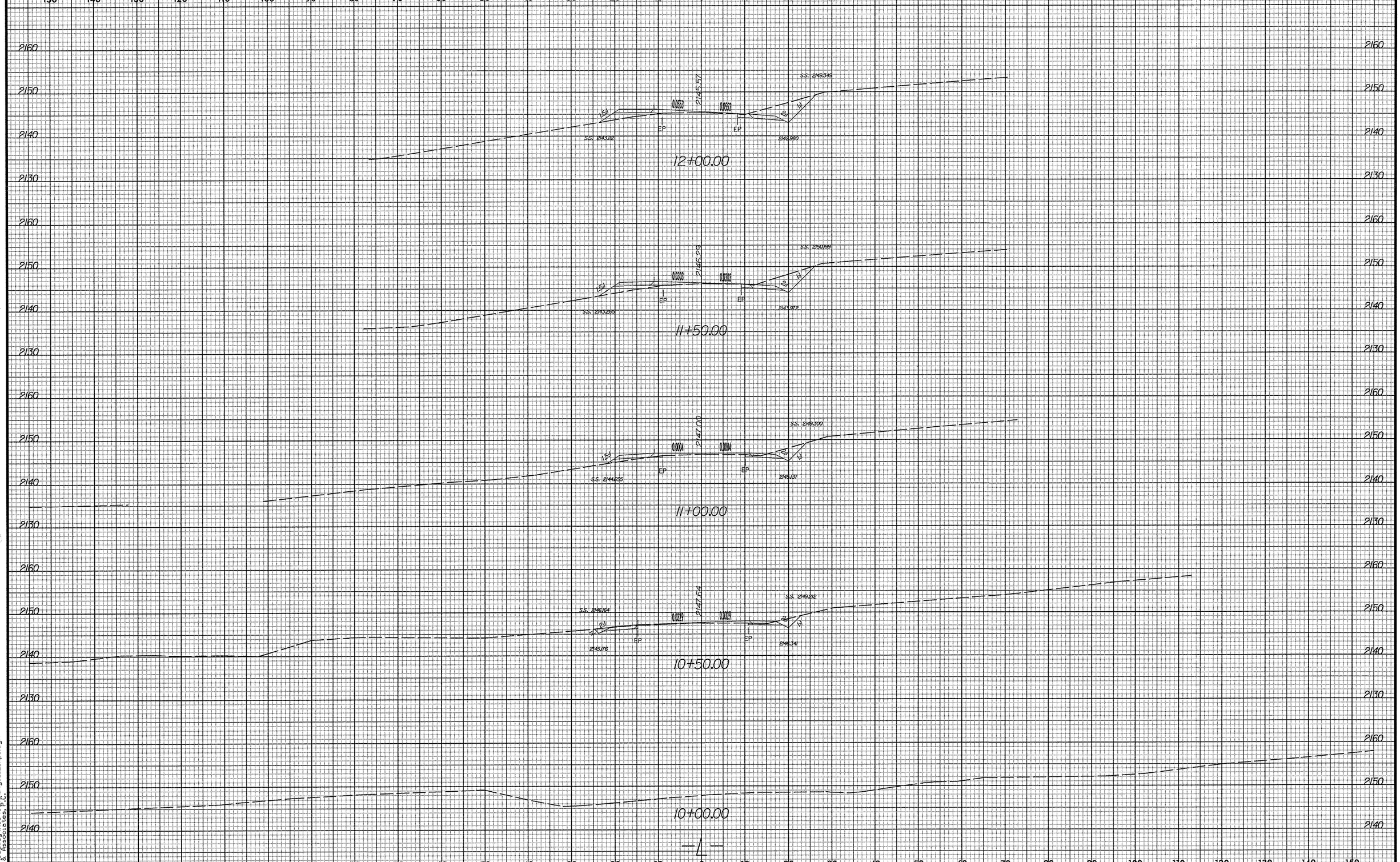

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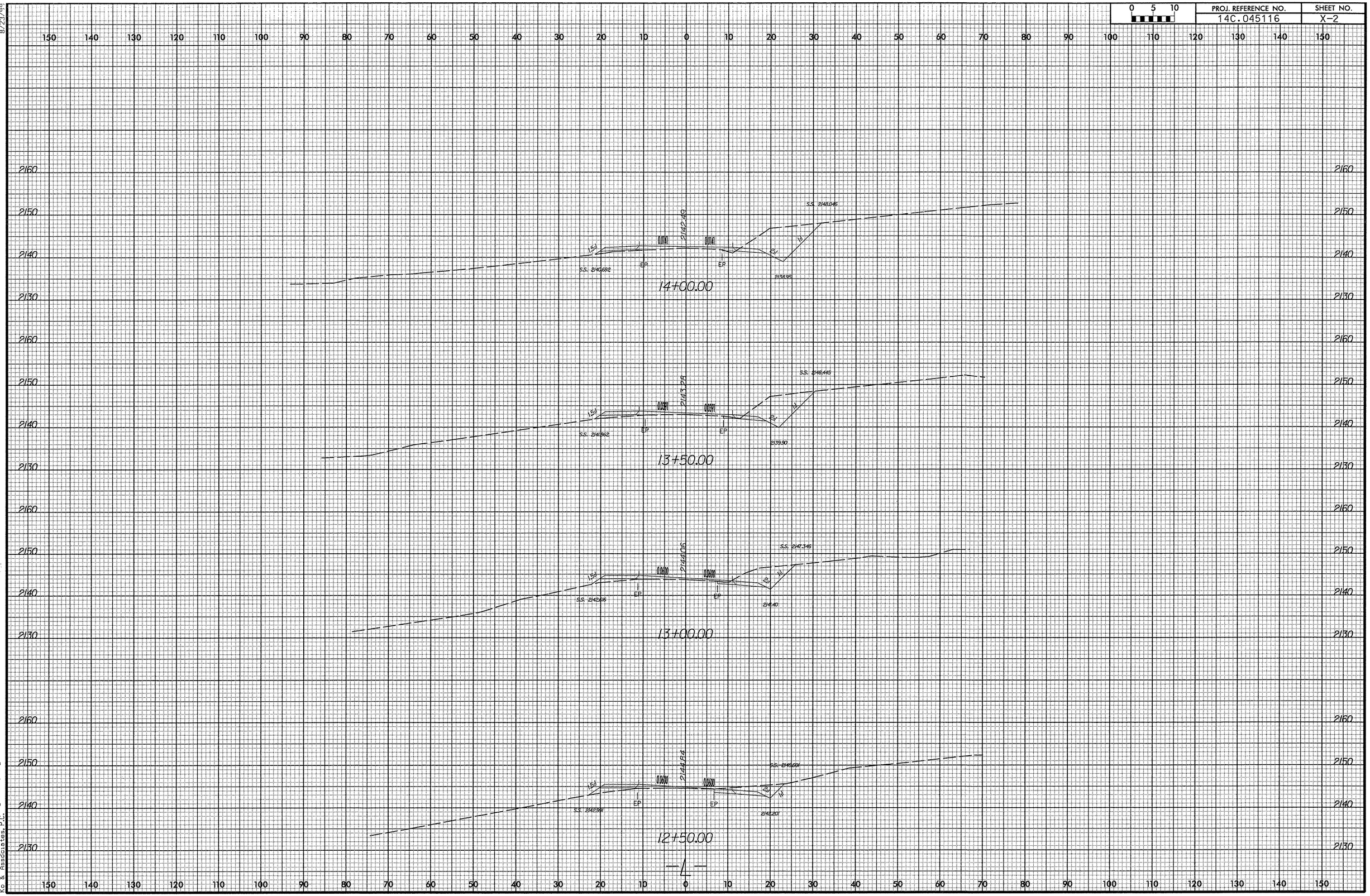

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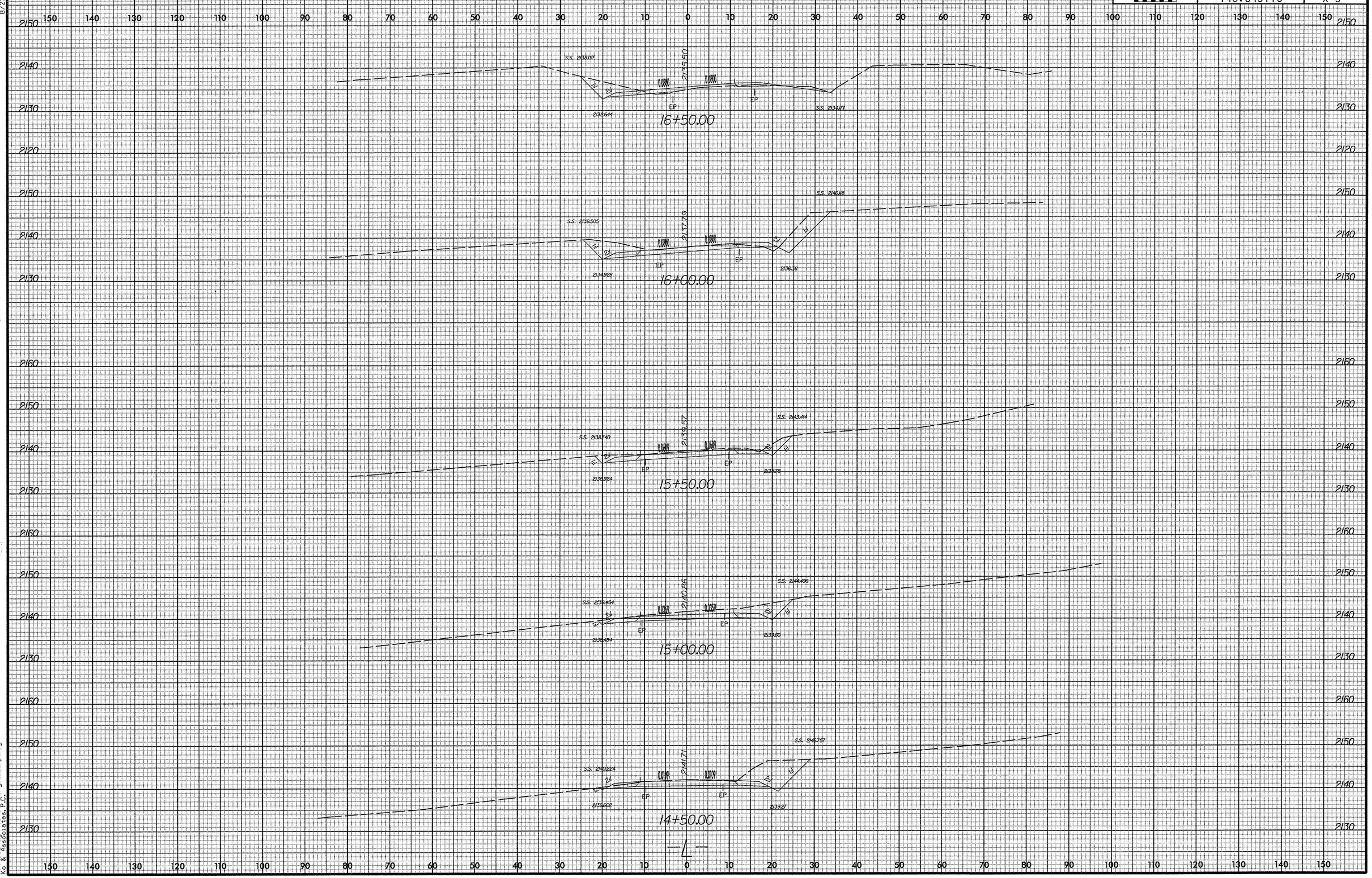

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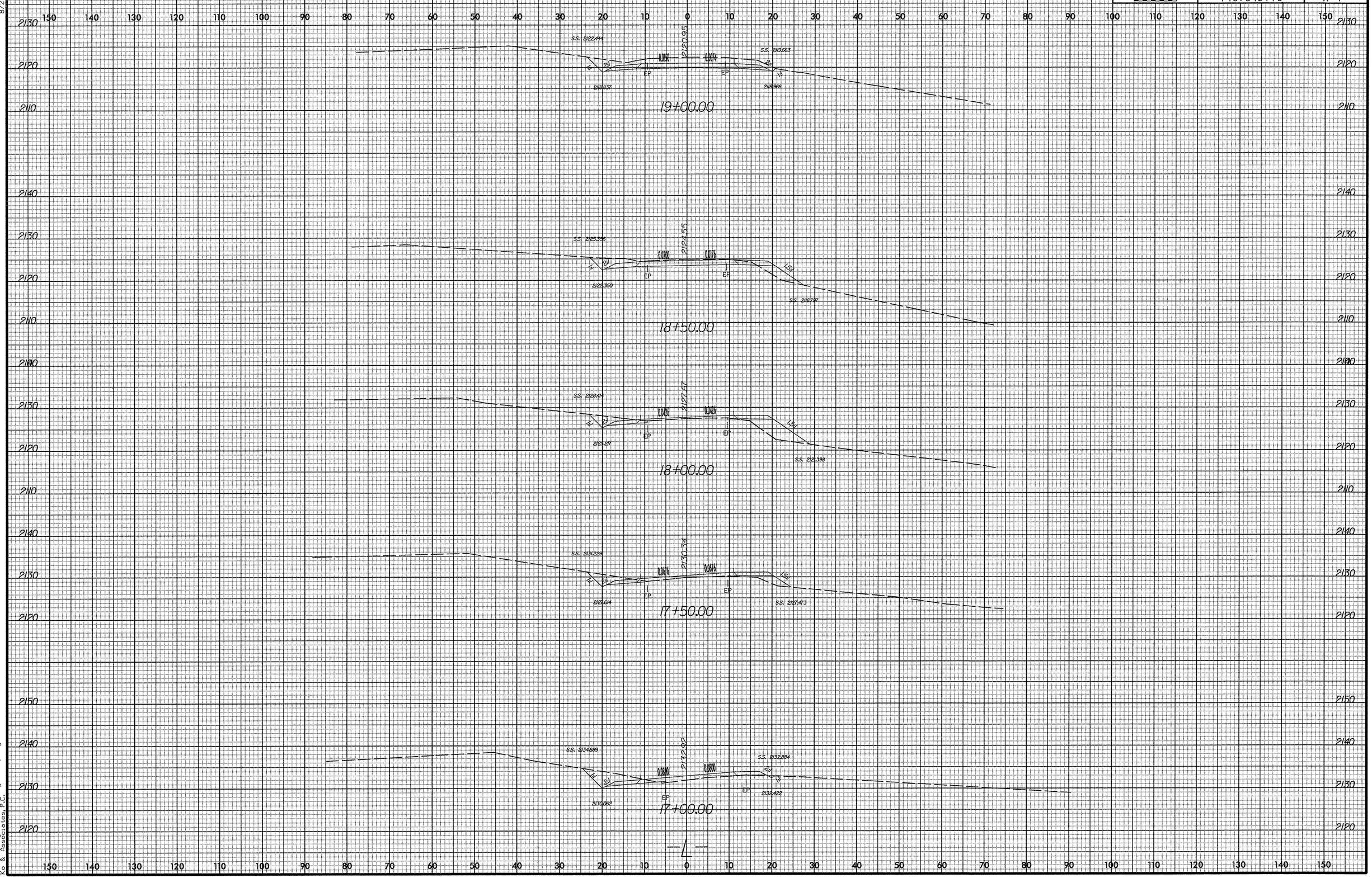

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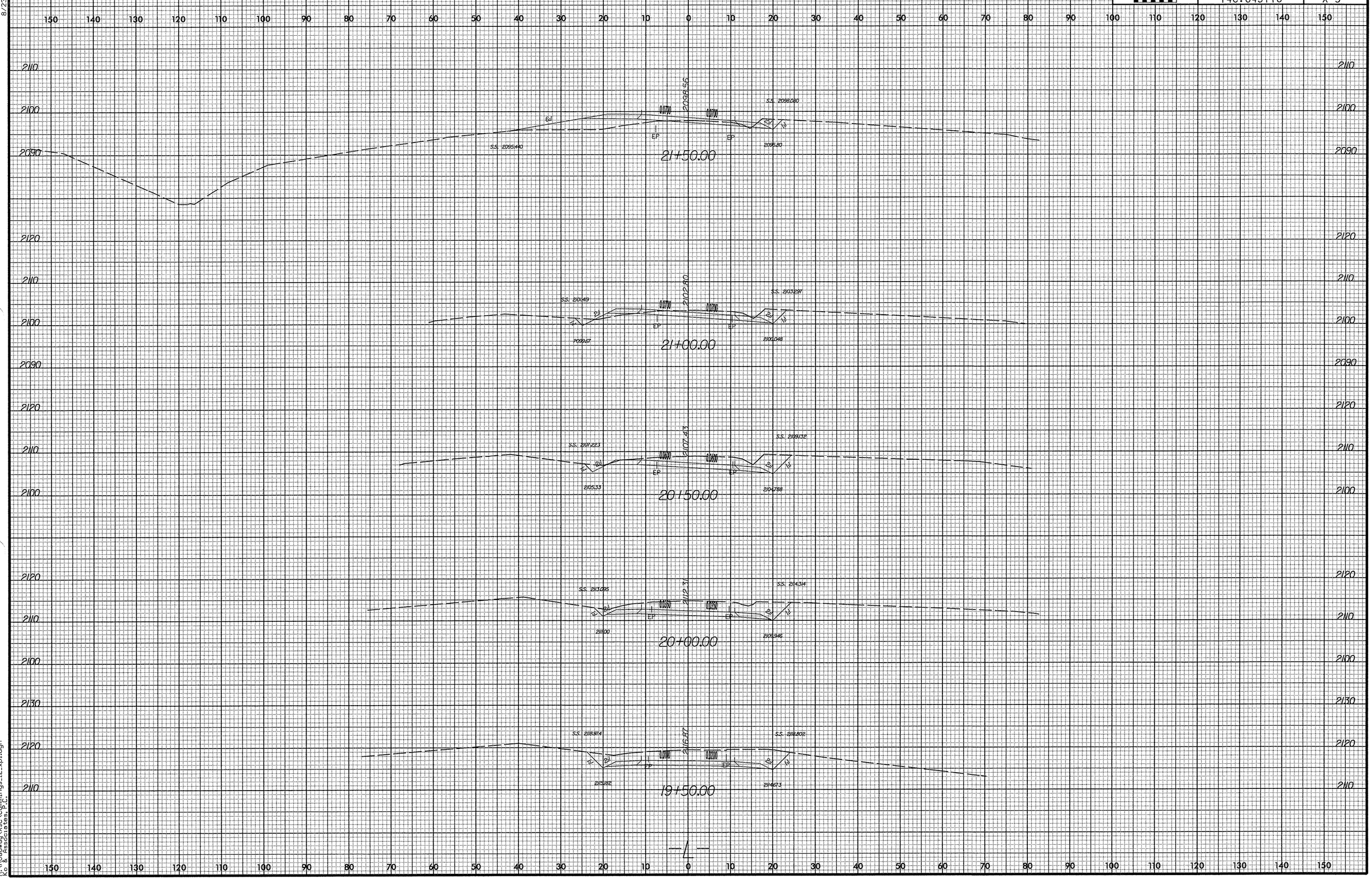

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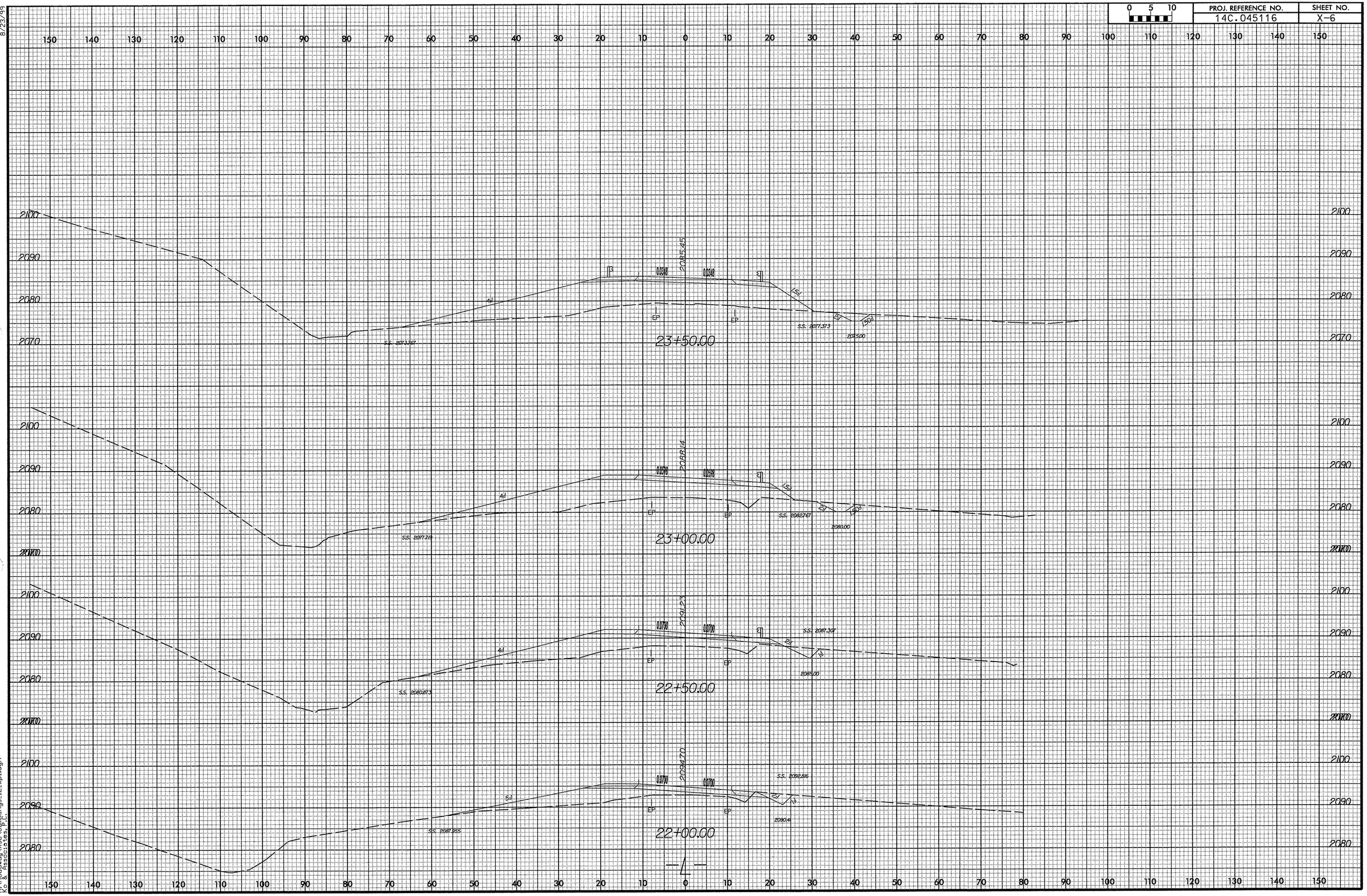

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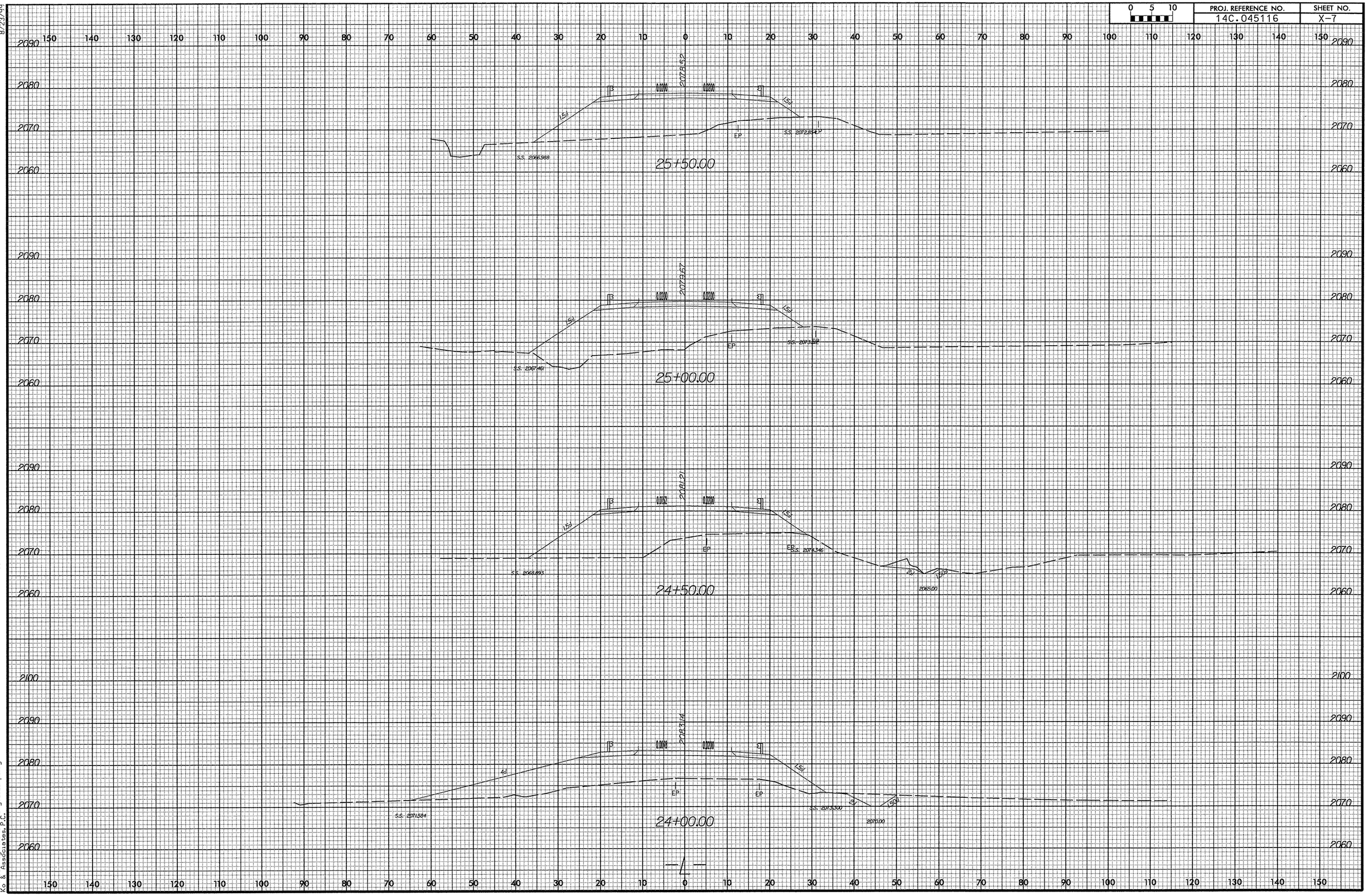

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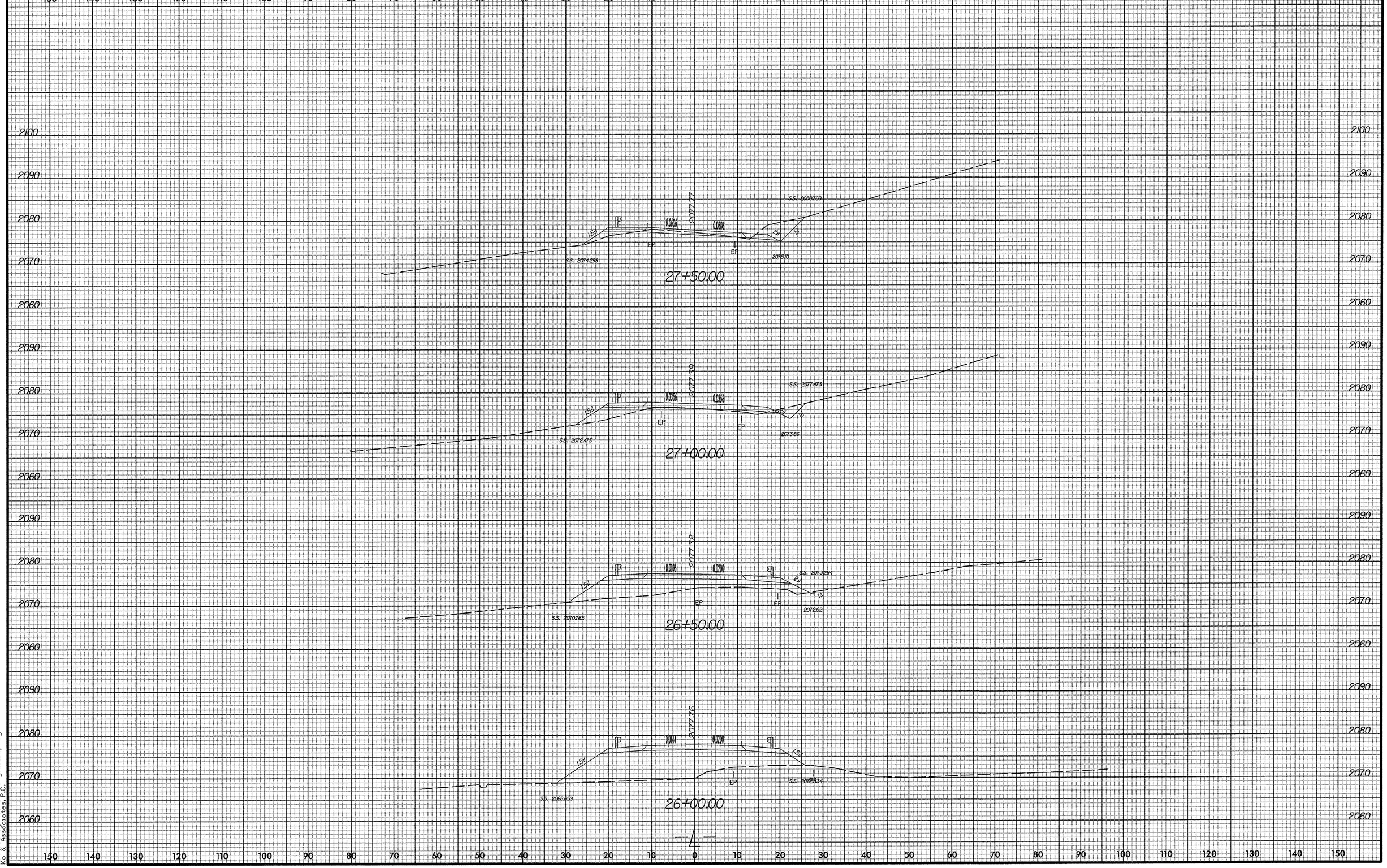

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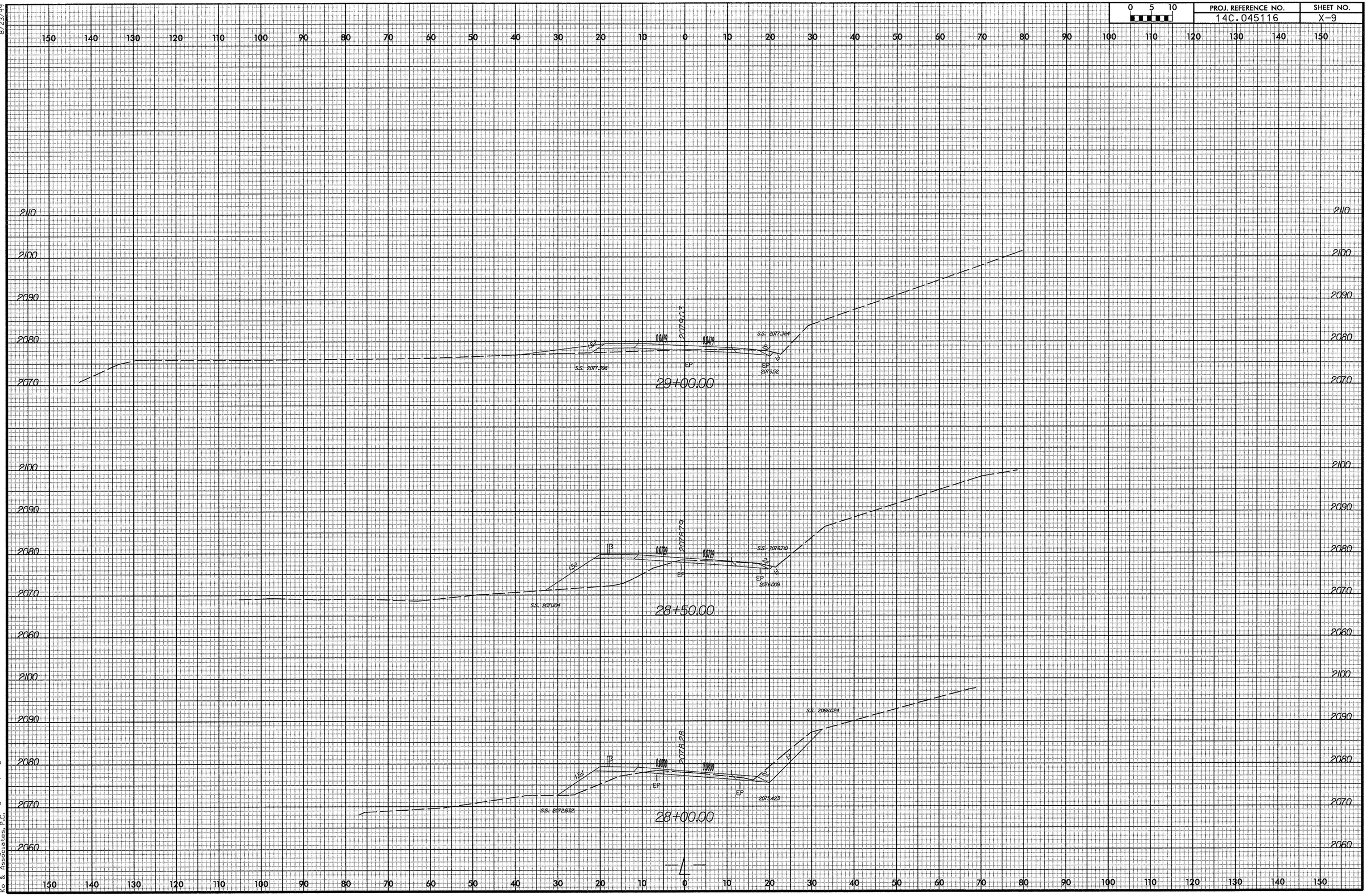

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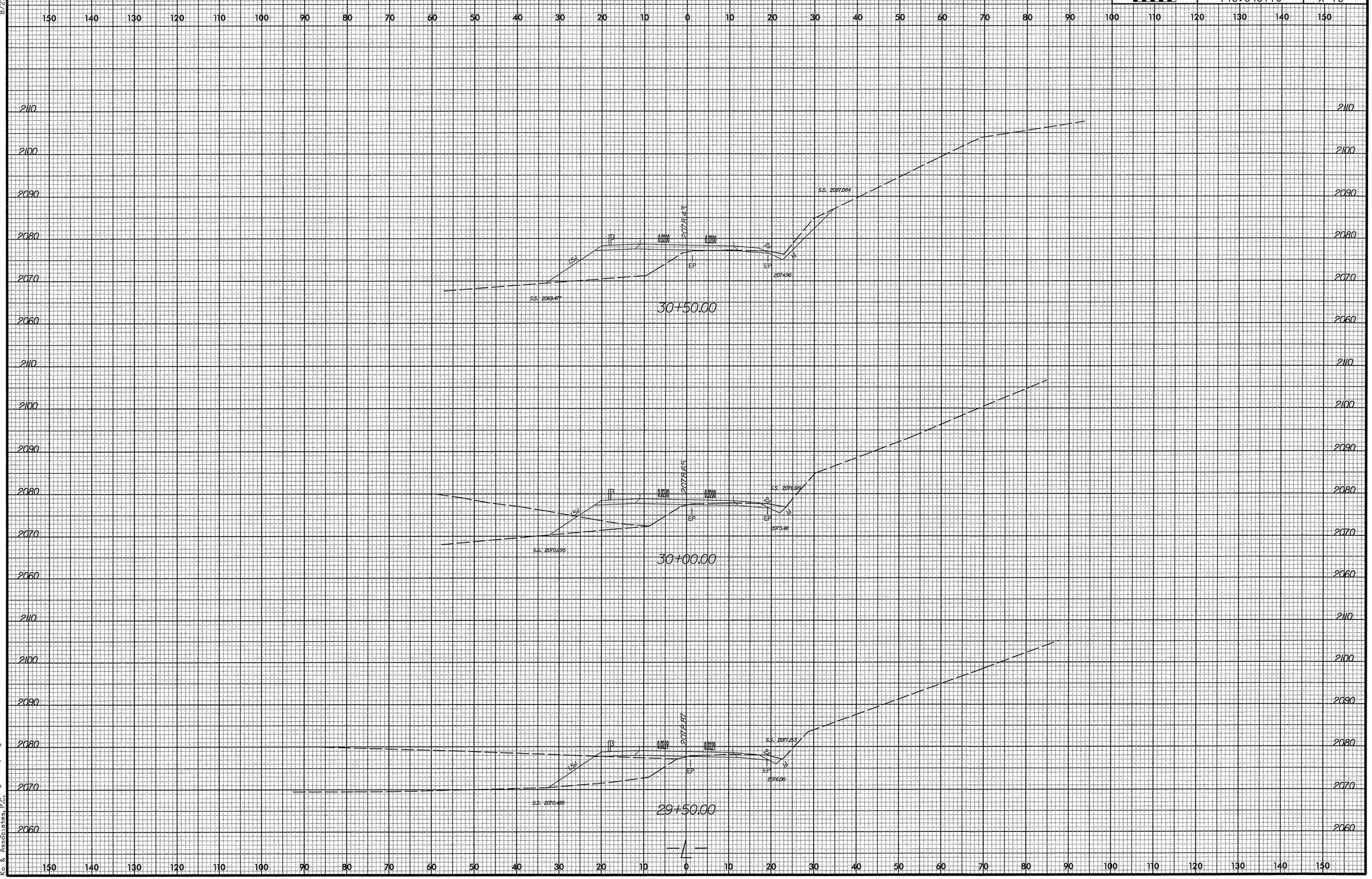

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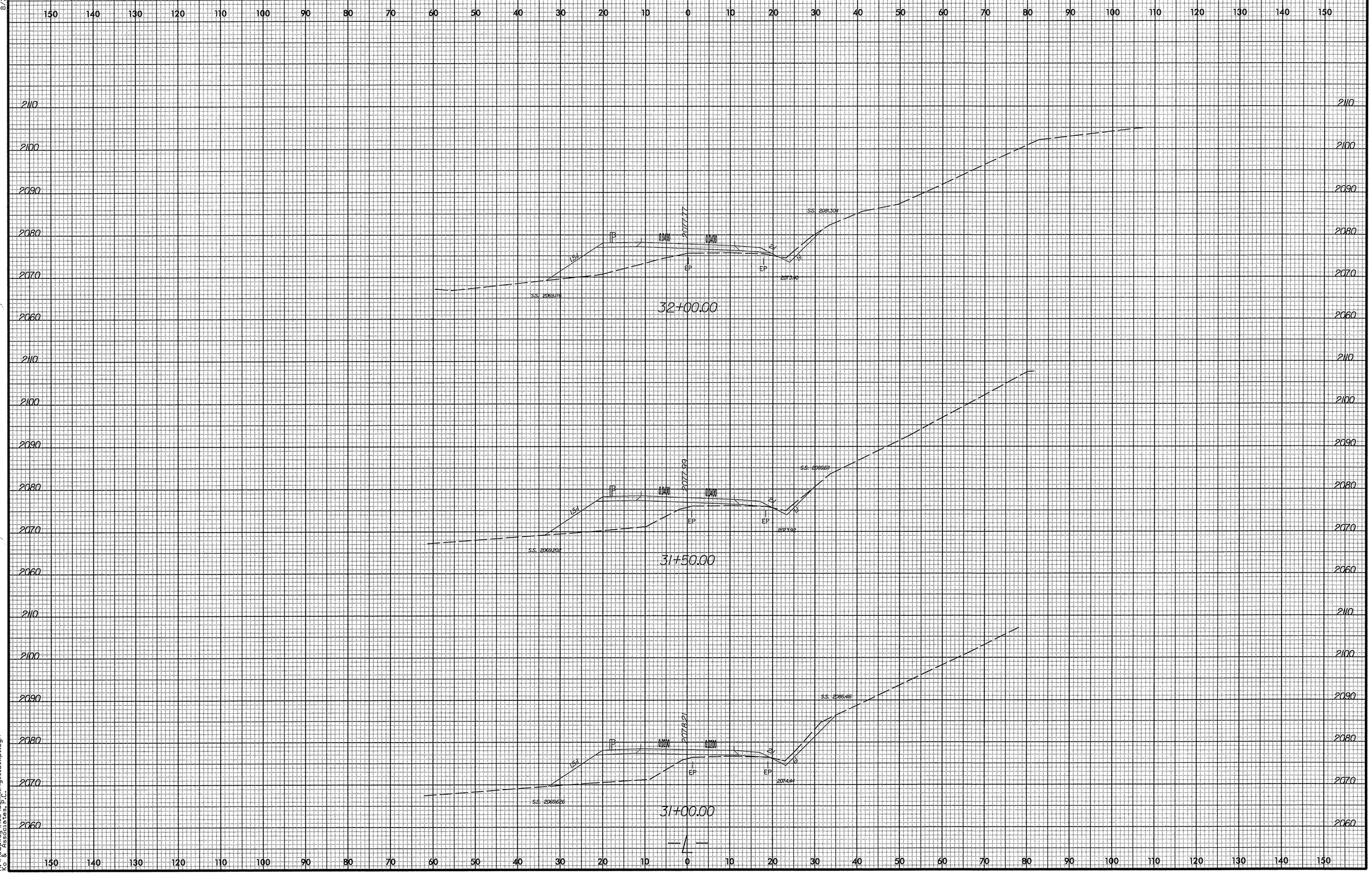

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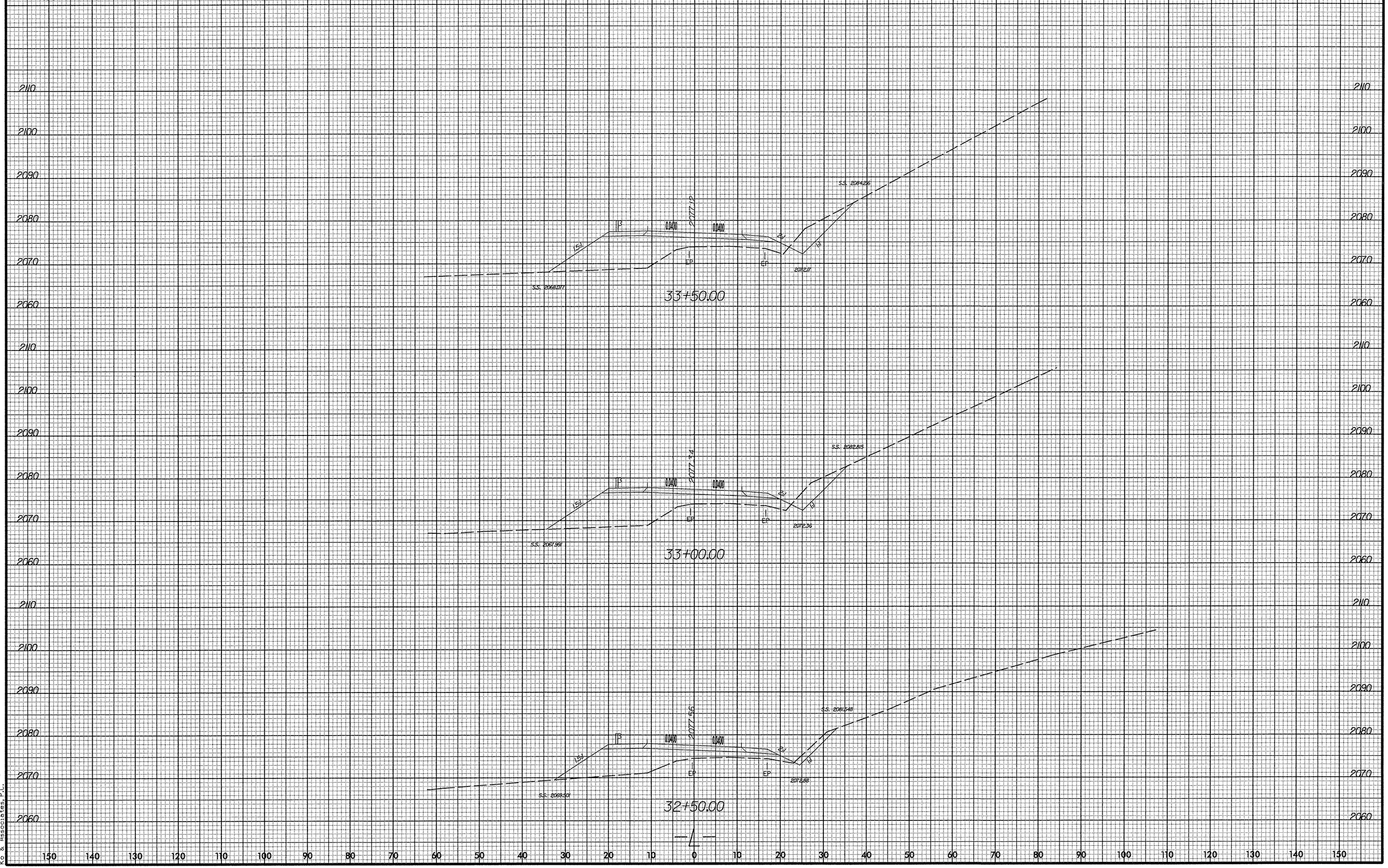

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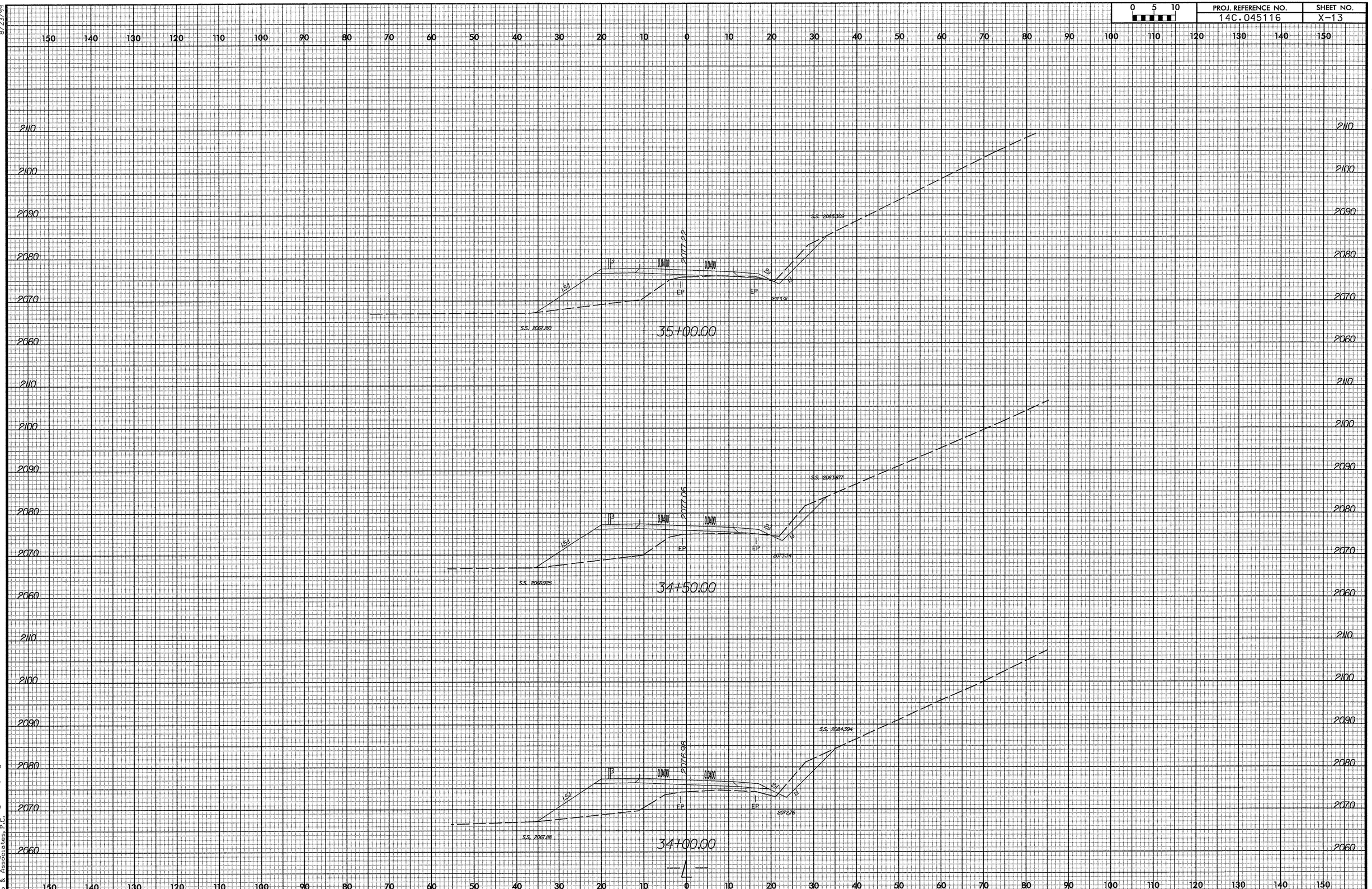

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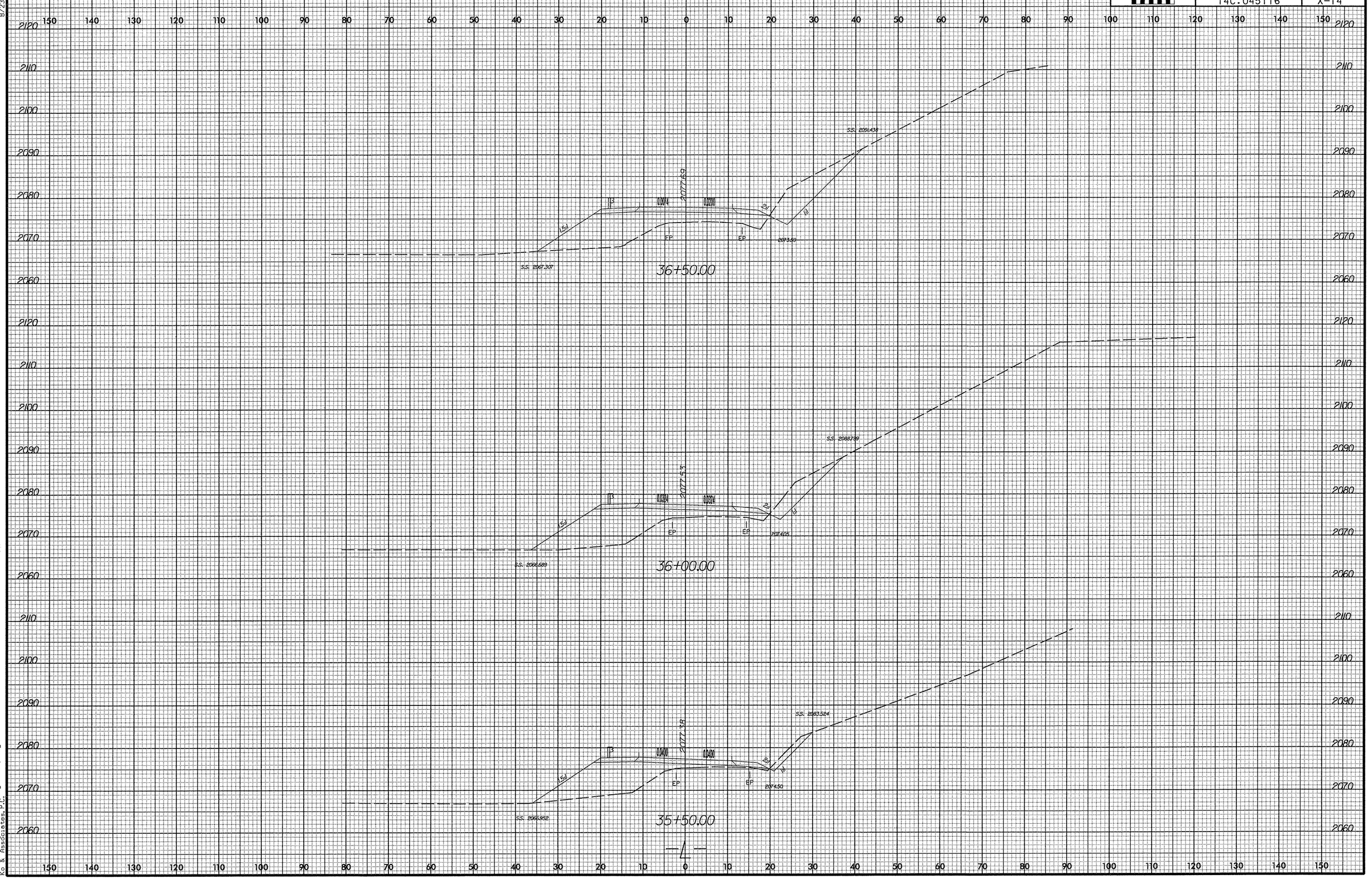

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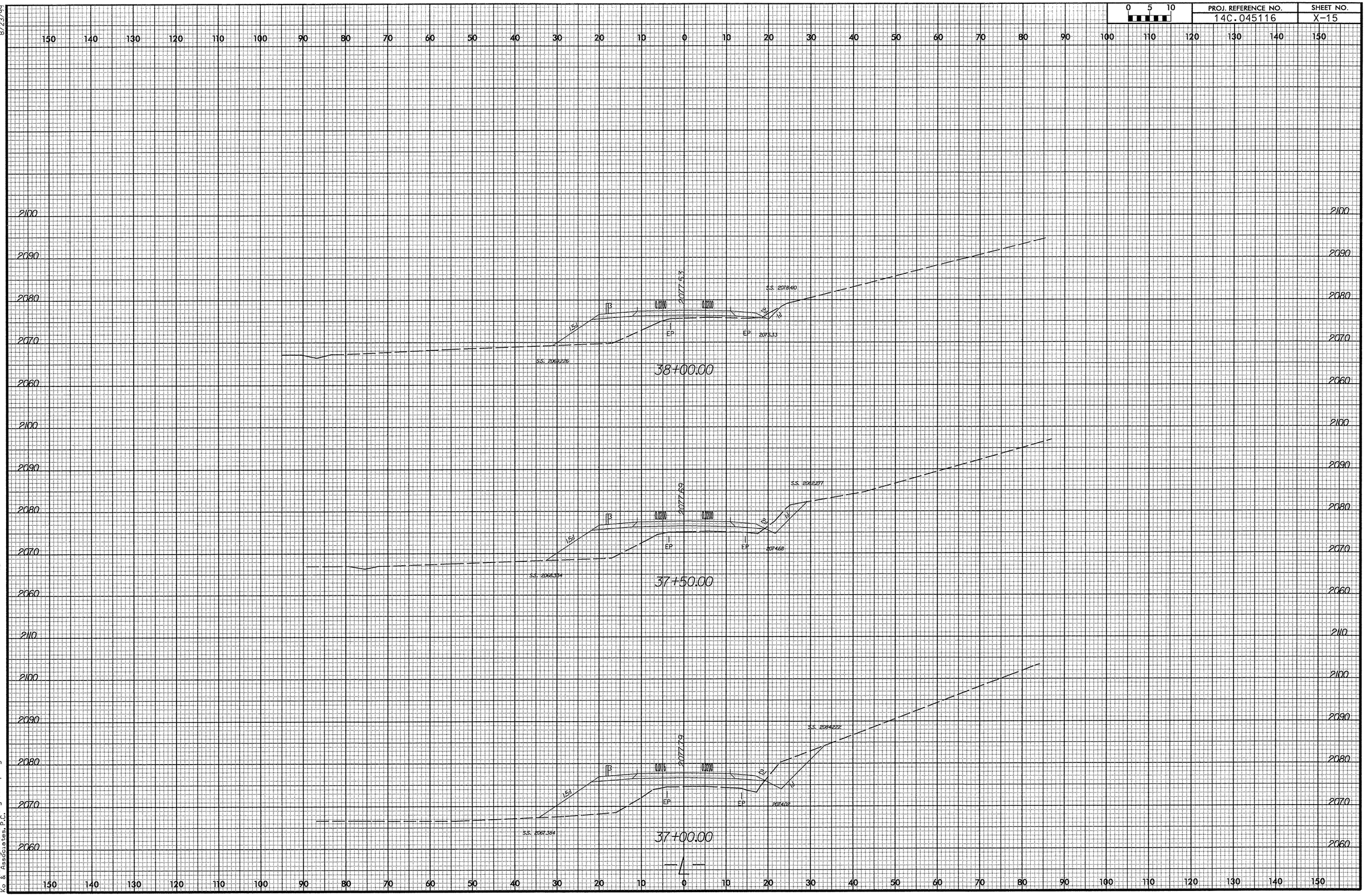

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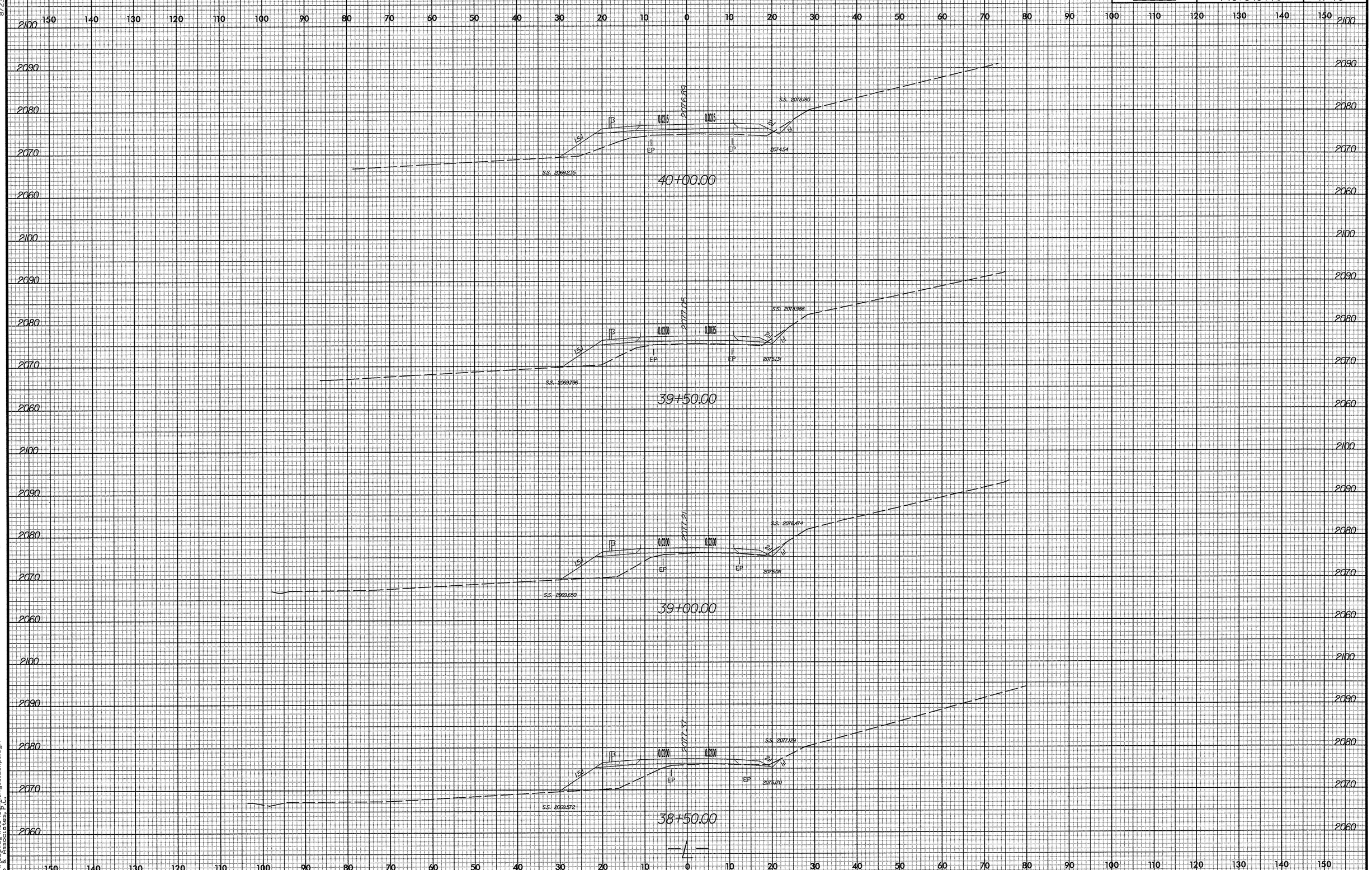

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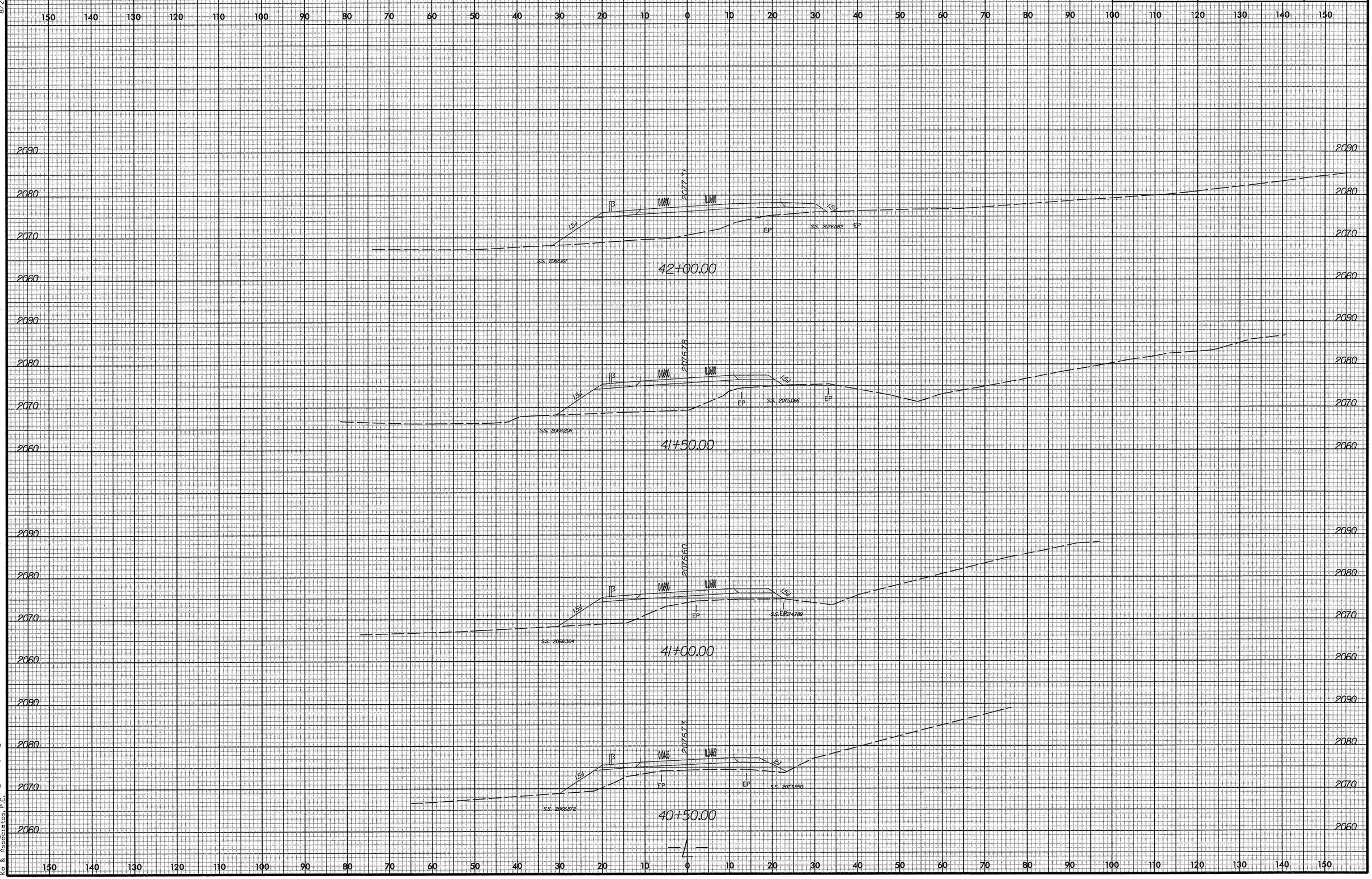

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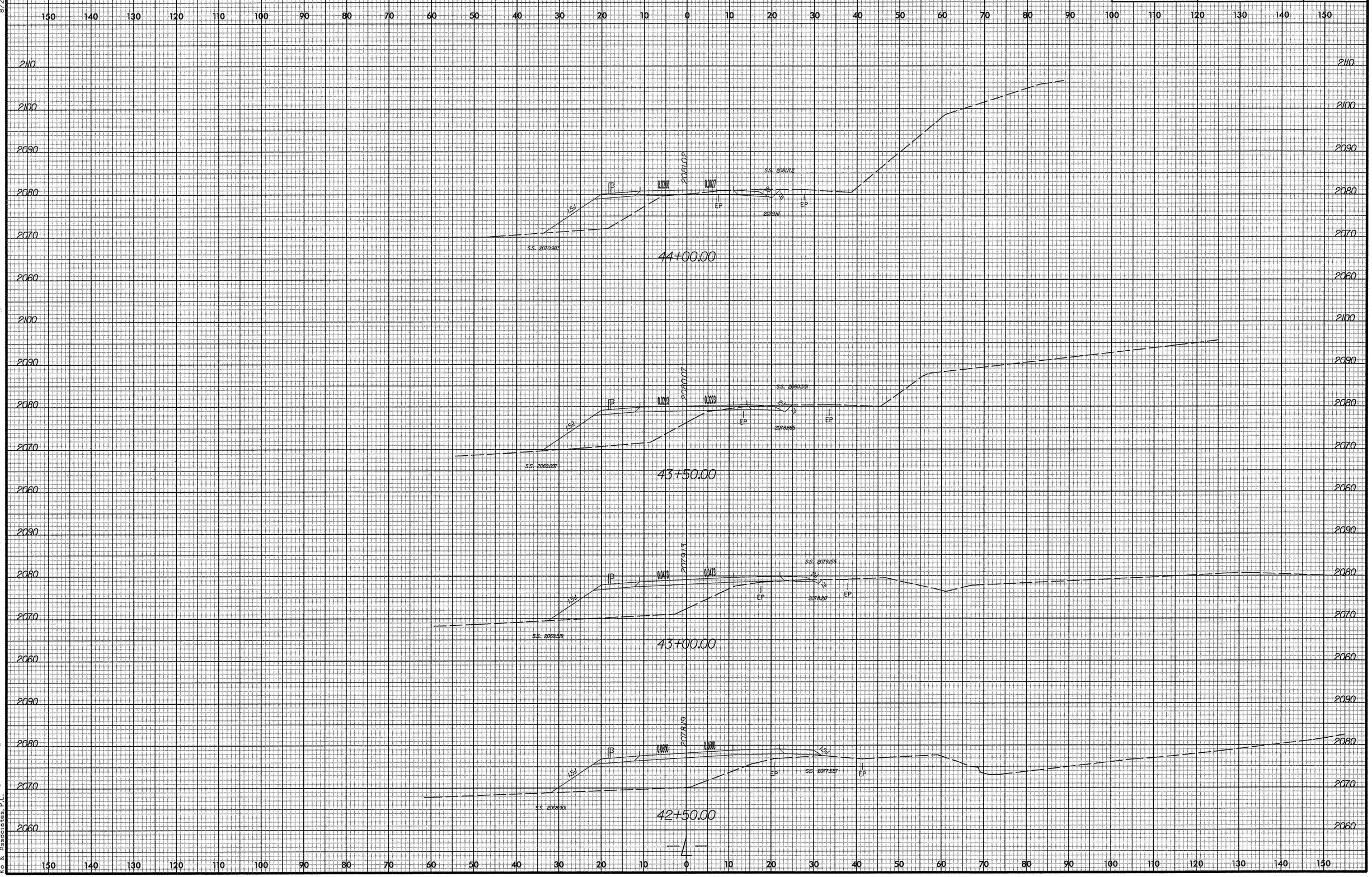

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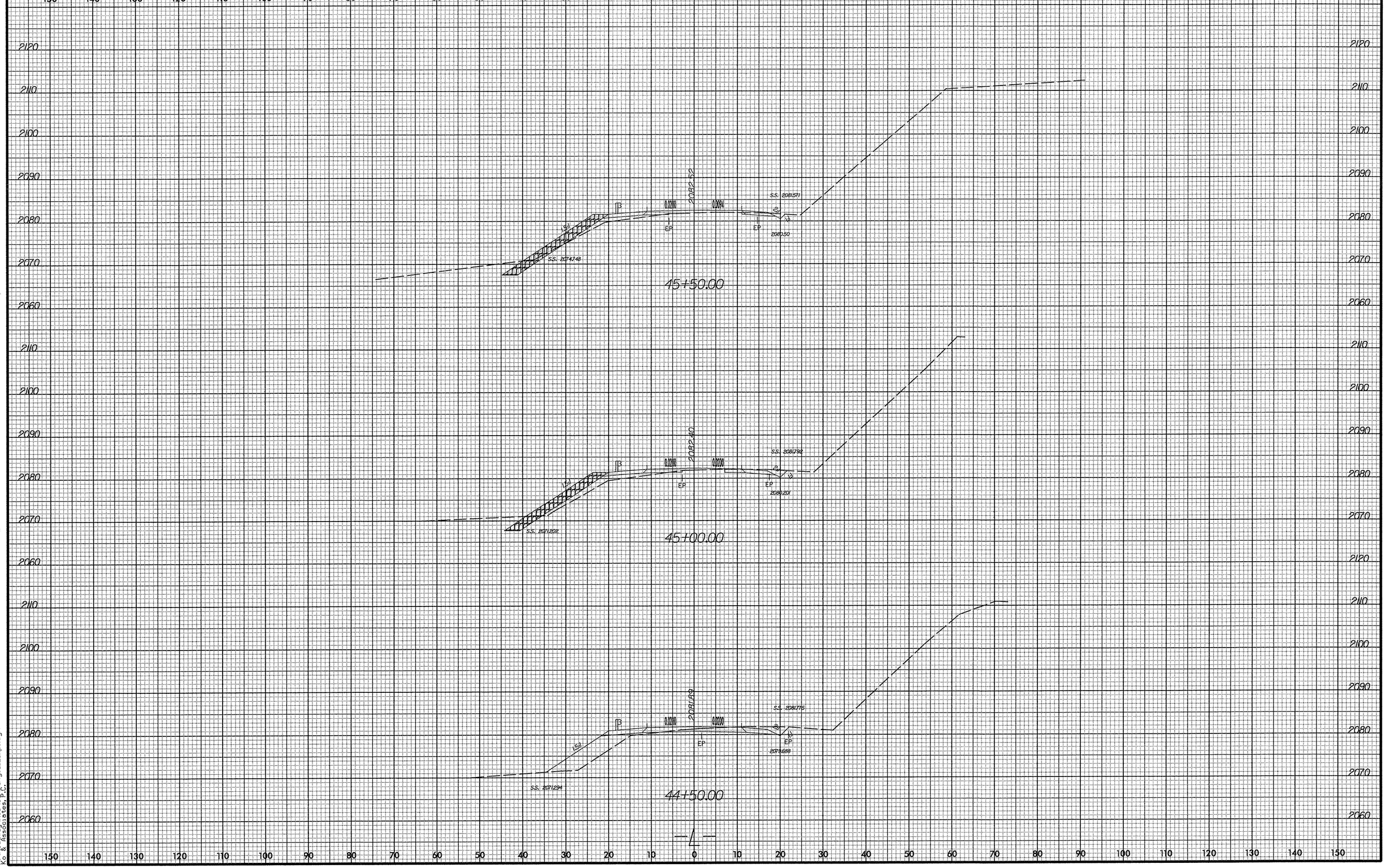

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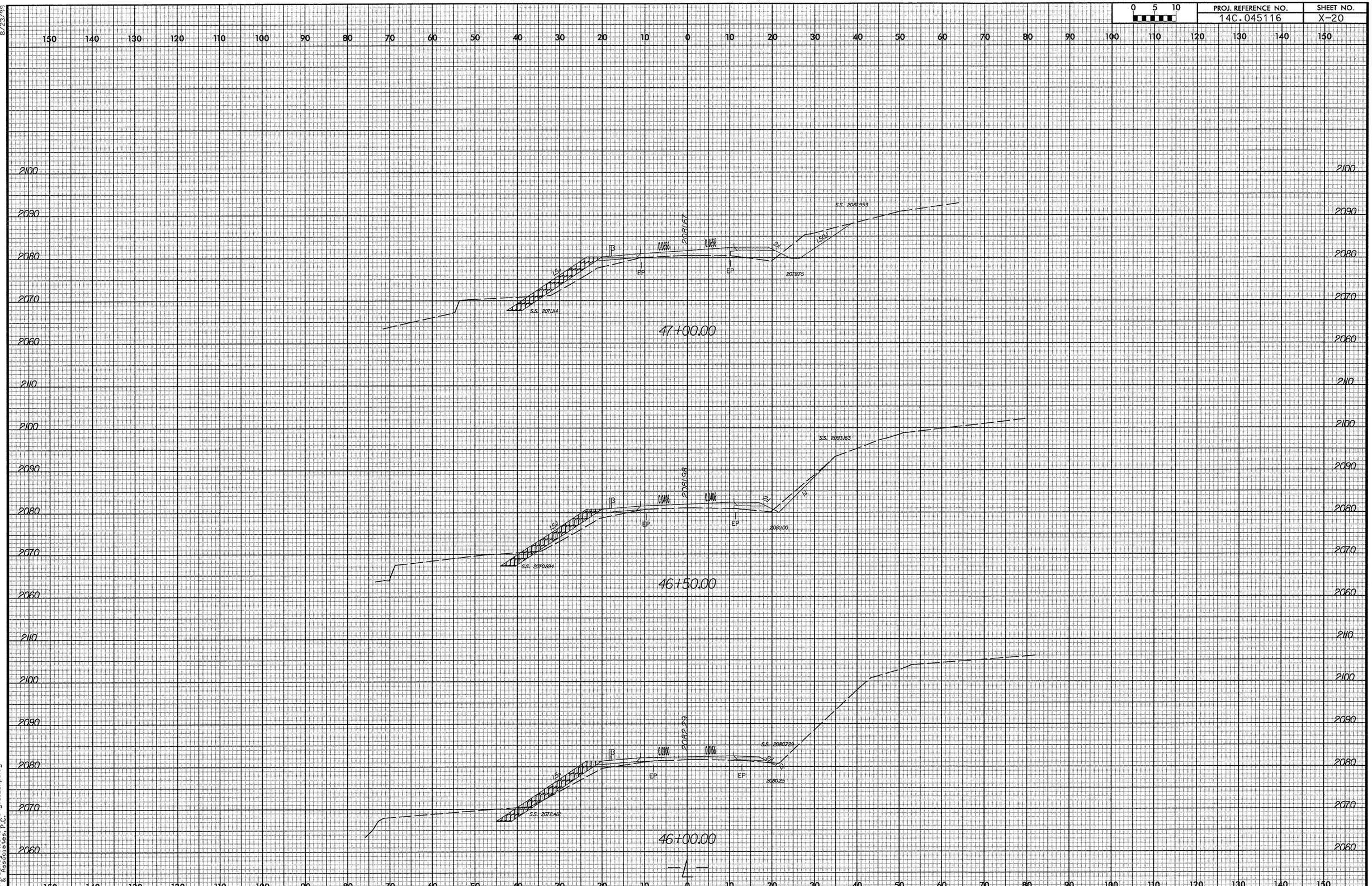

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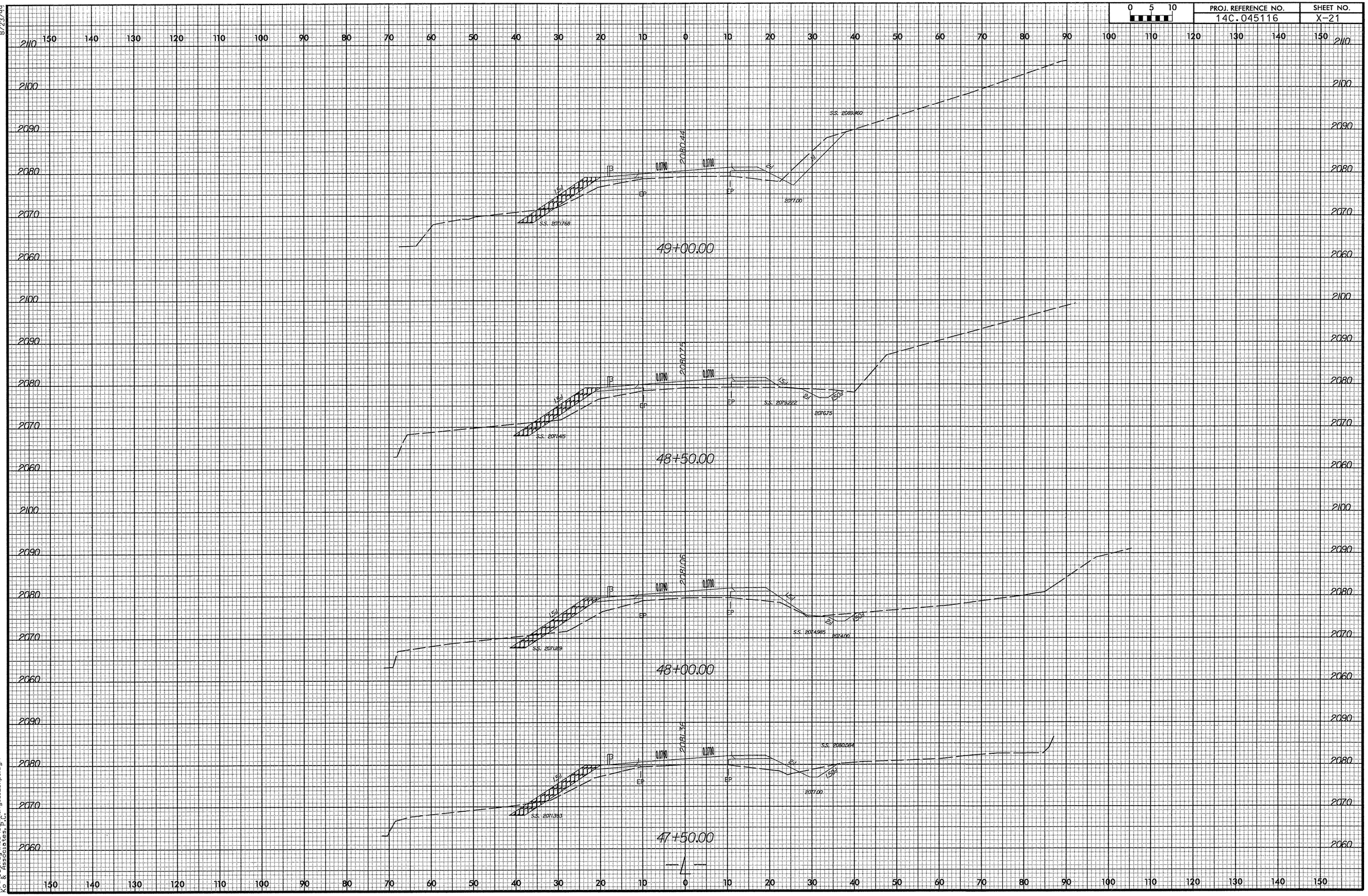

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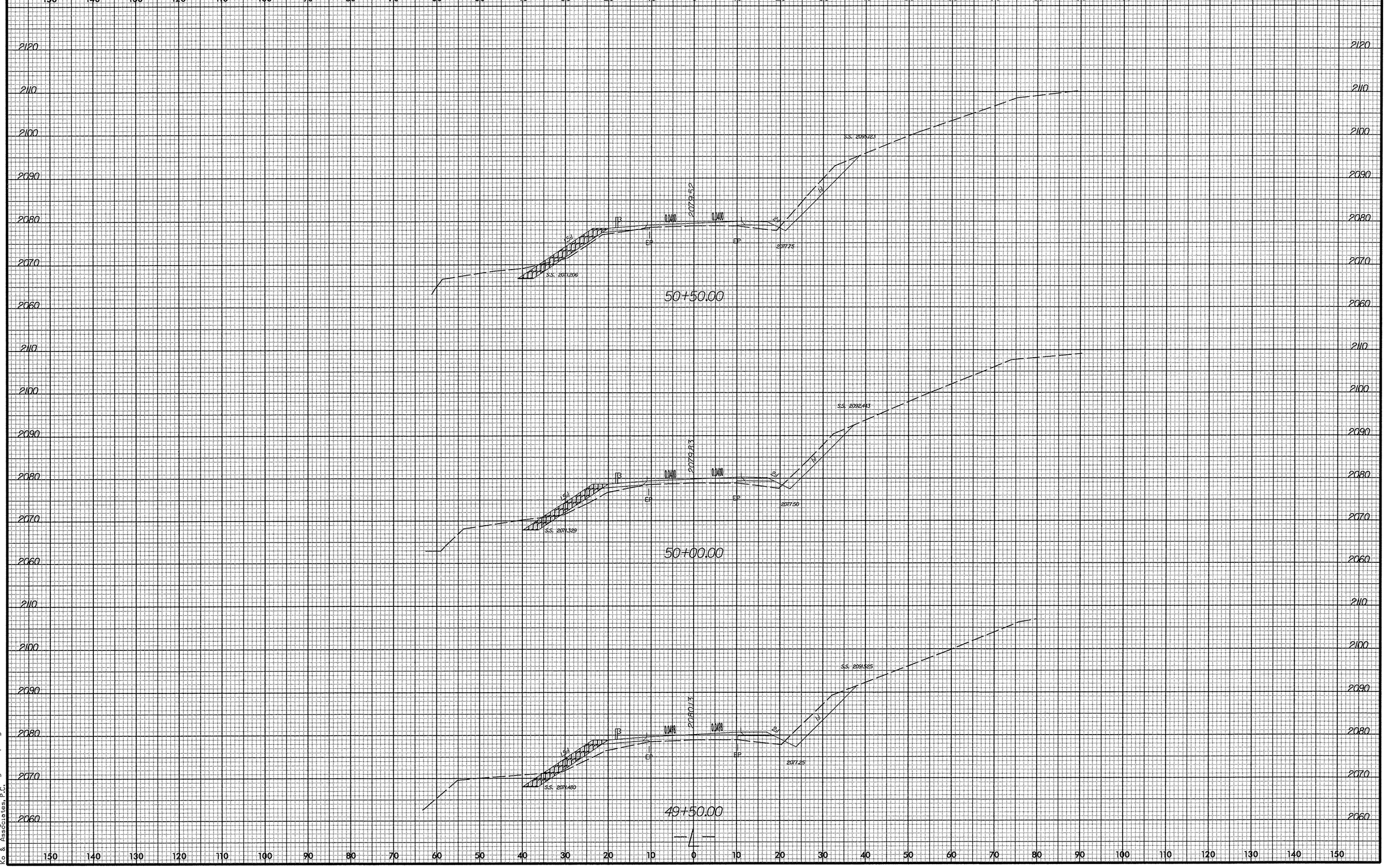

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Ko & Associates, P.C.

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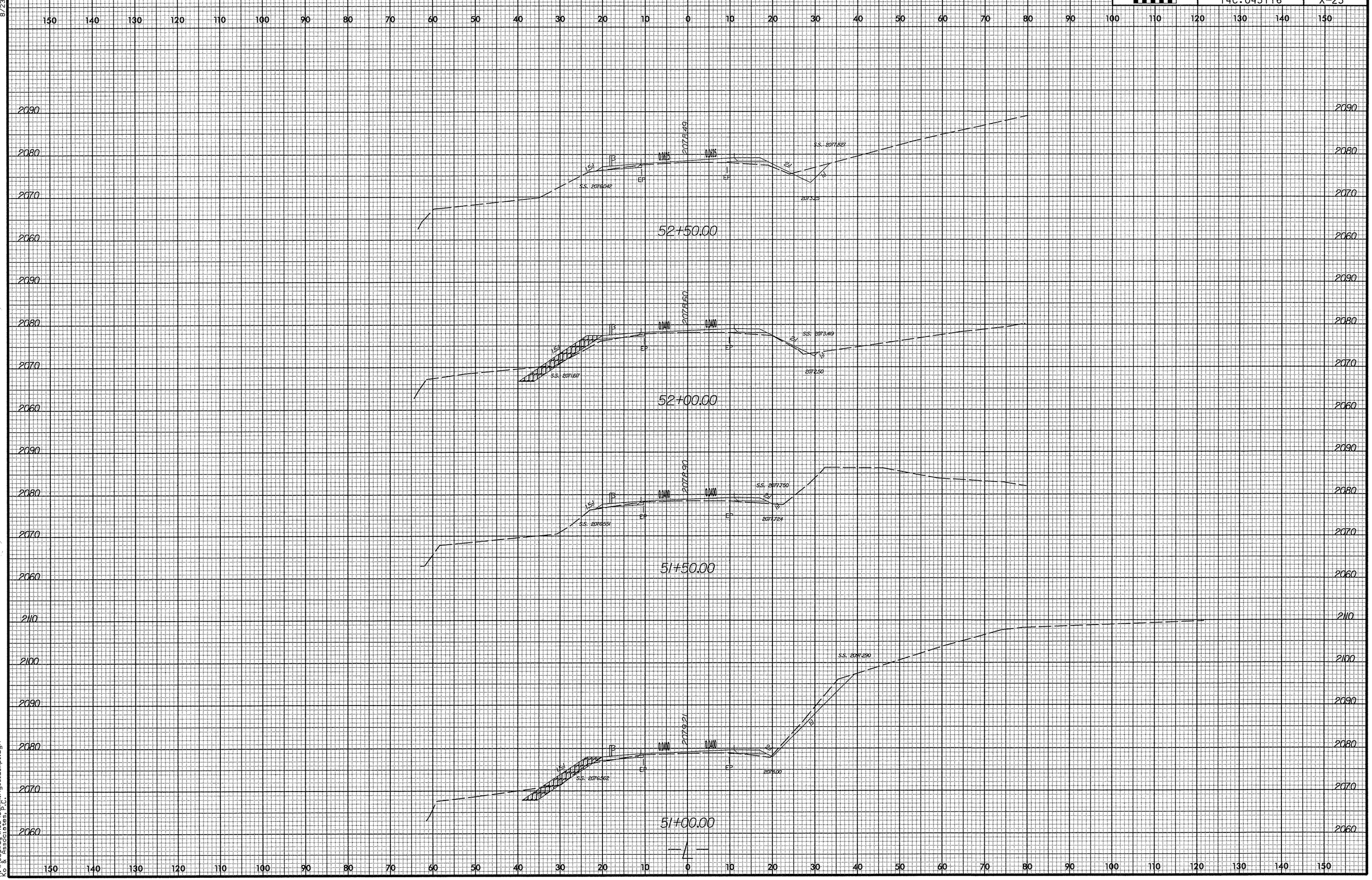

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Ko & Associates, P.C.

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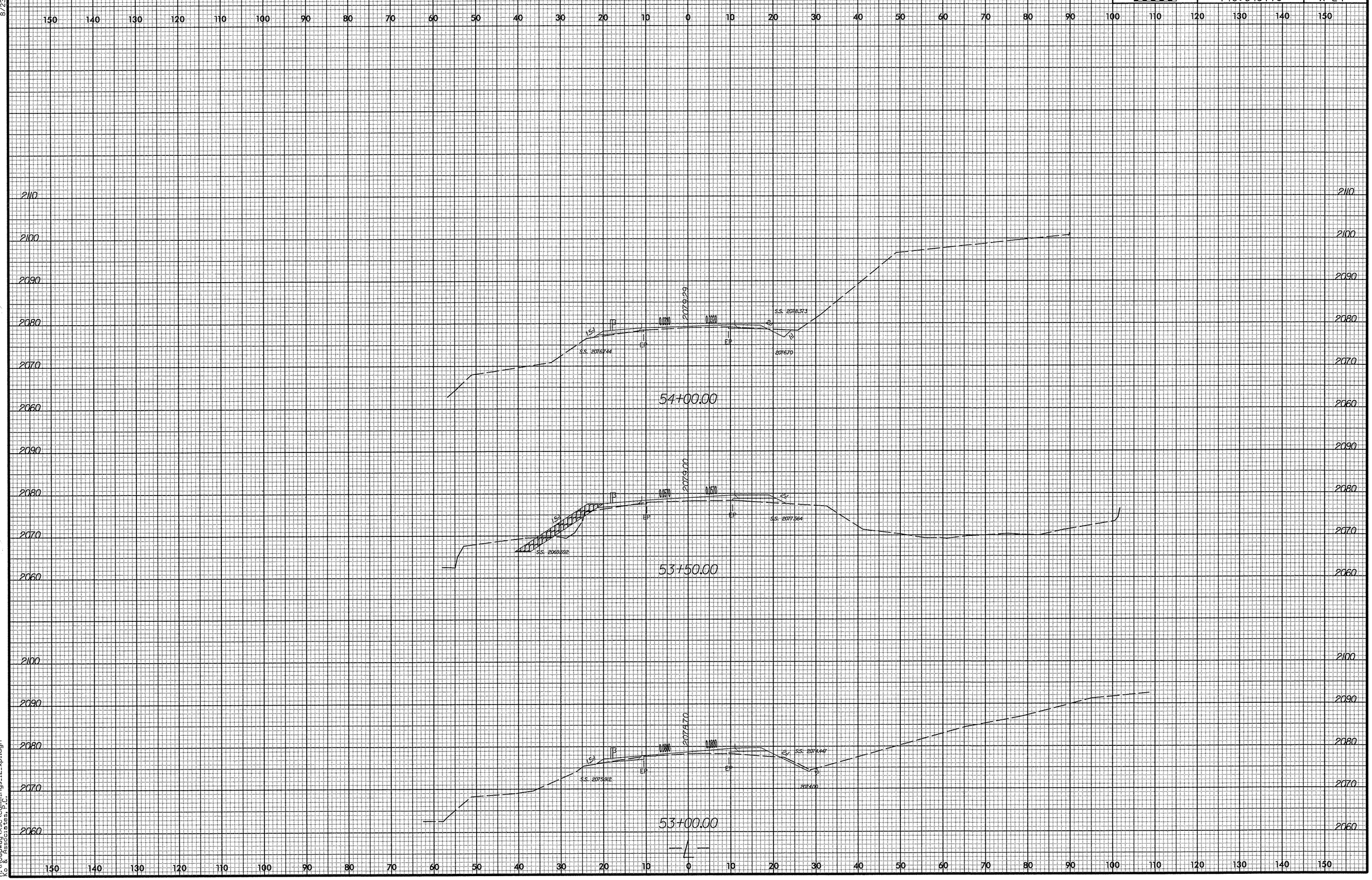

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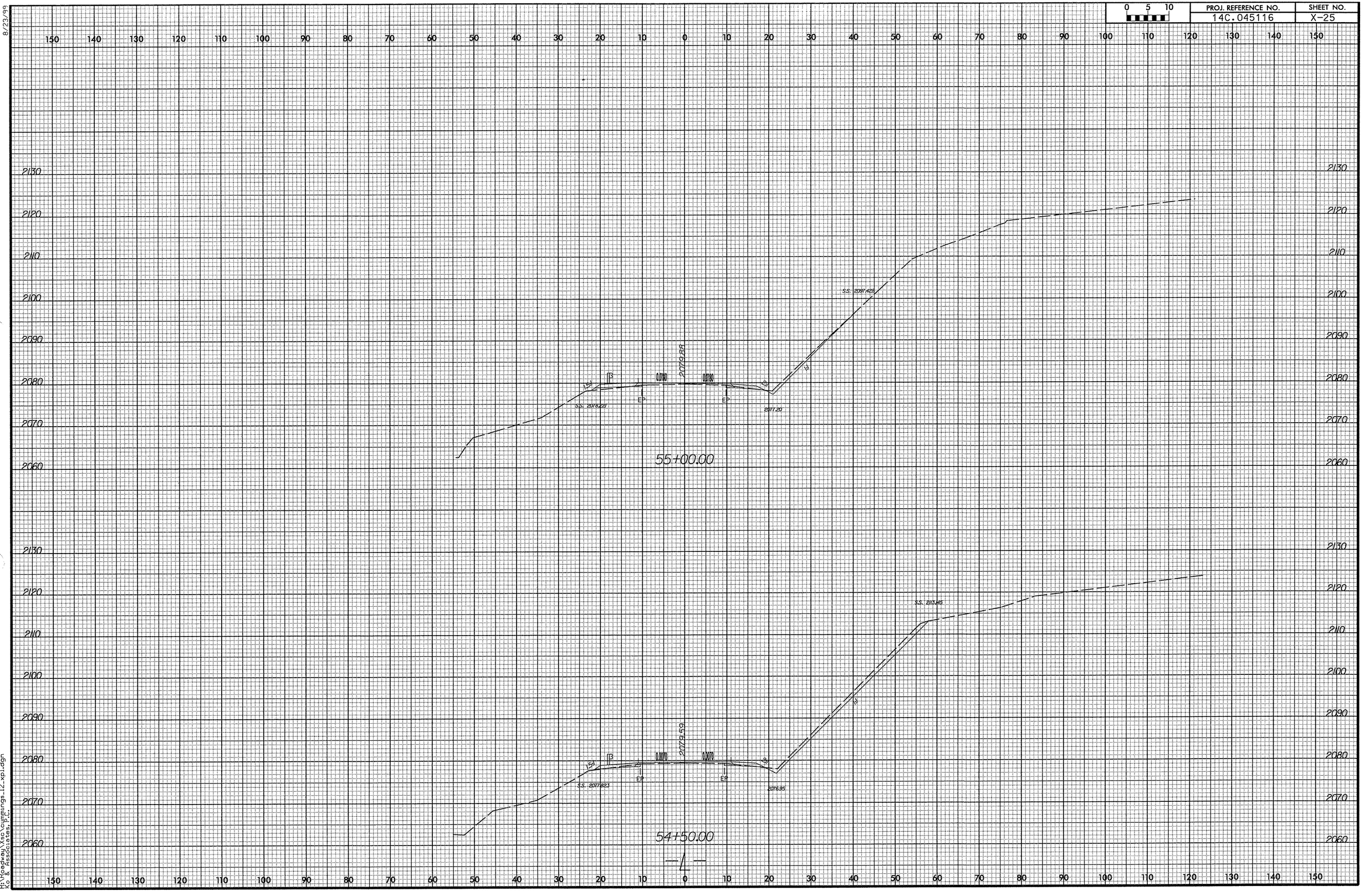

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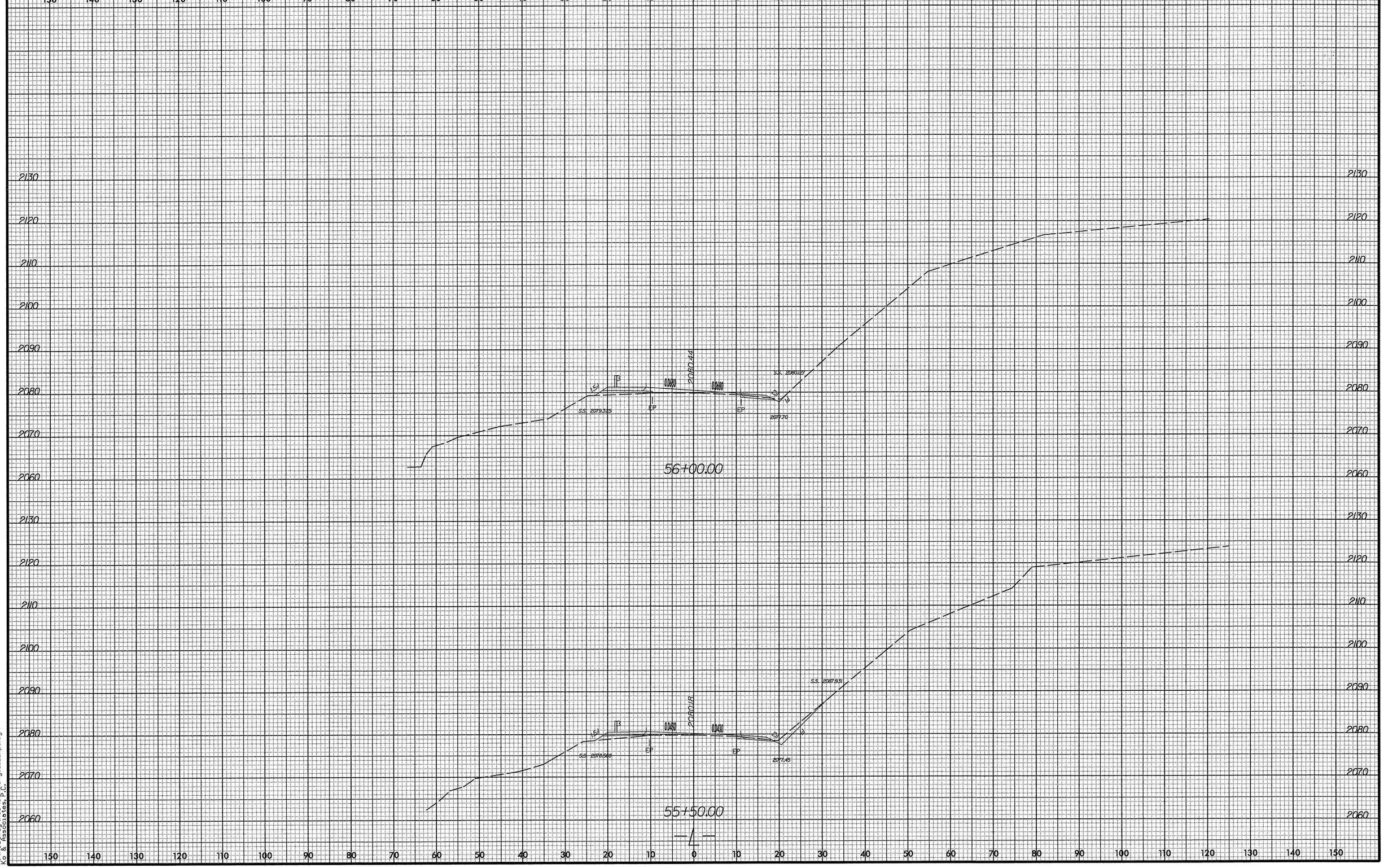

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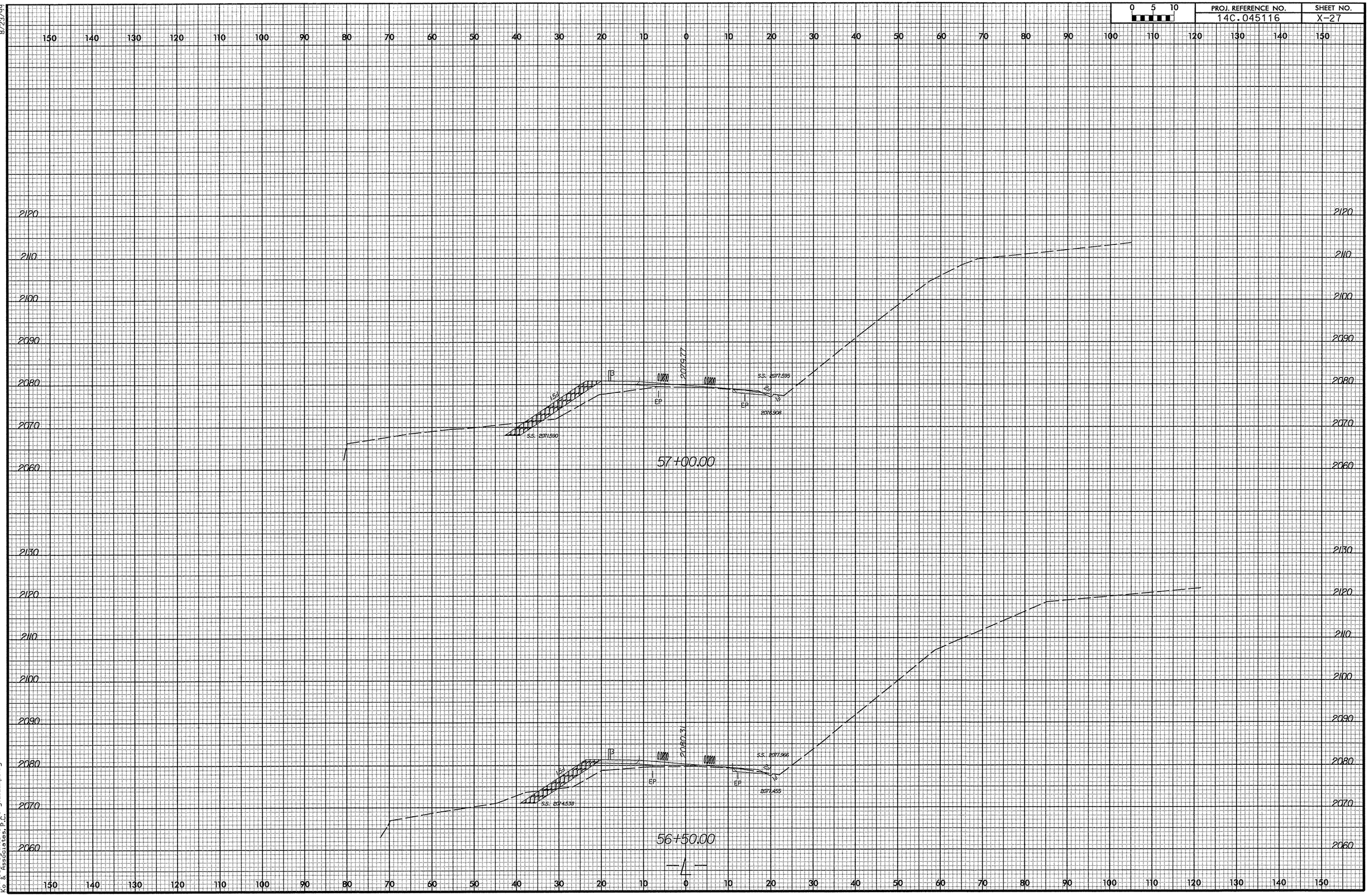

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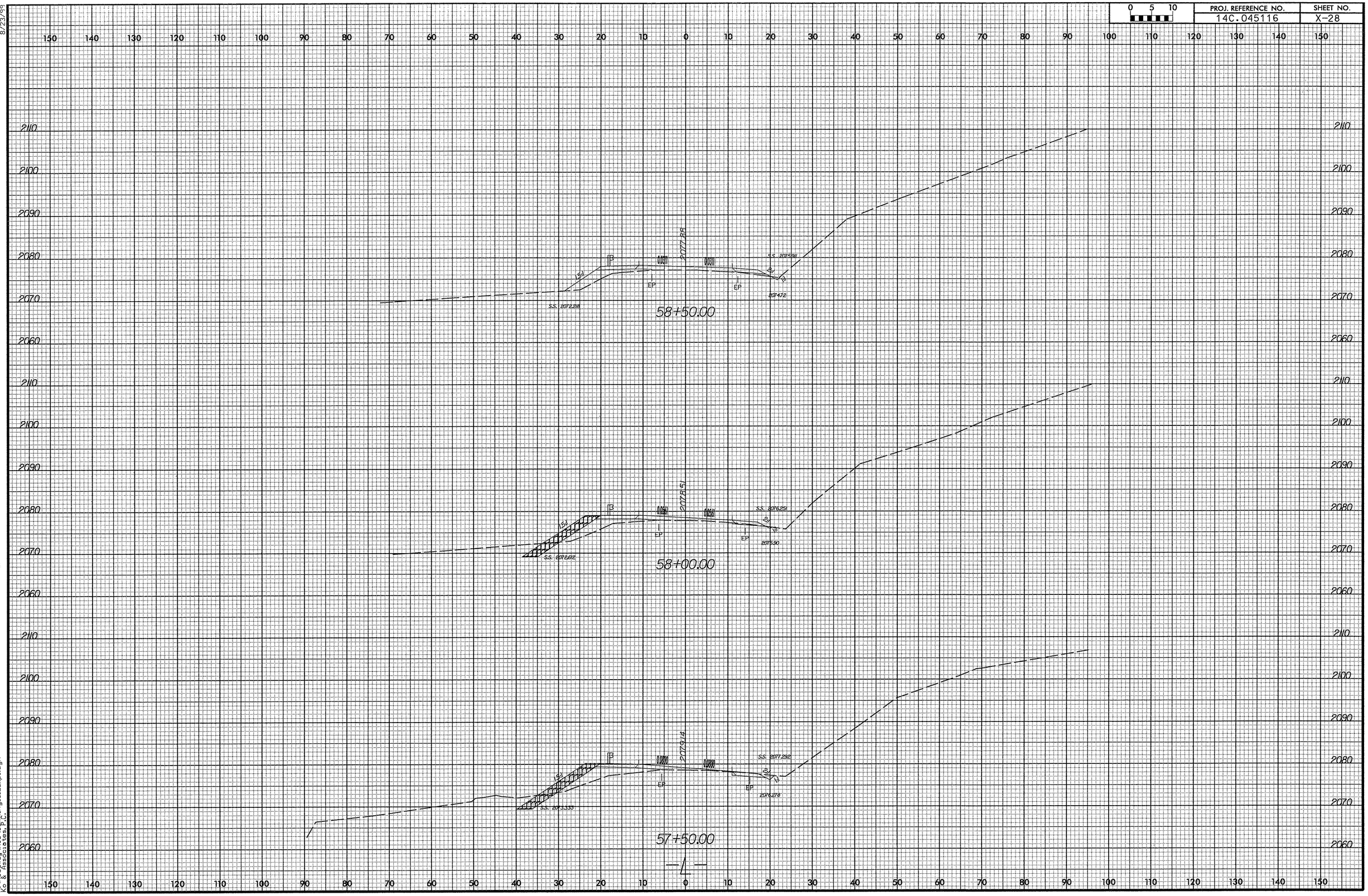

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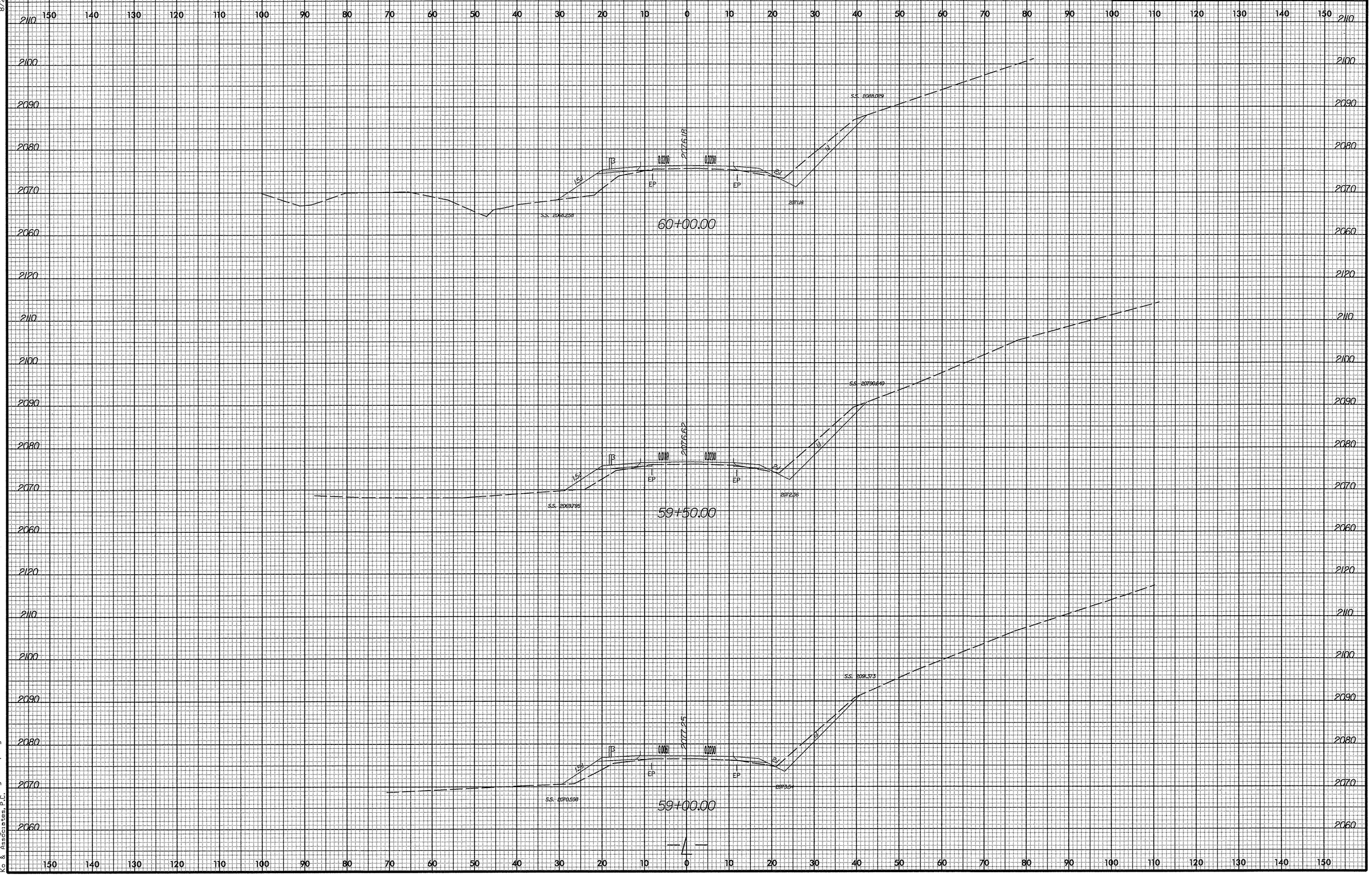

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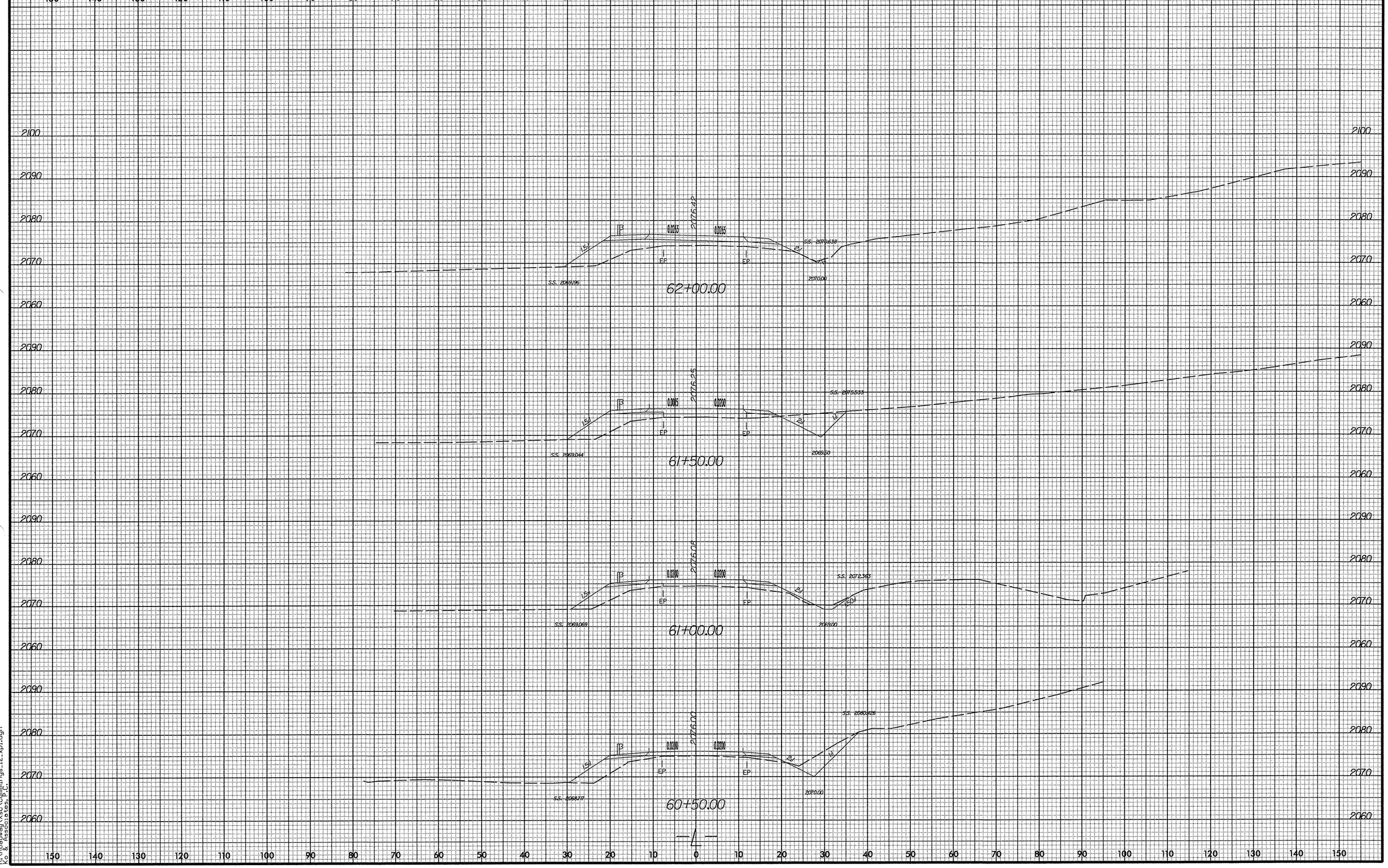

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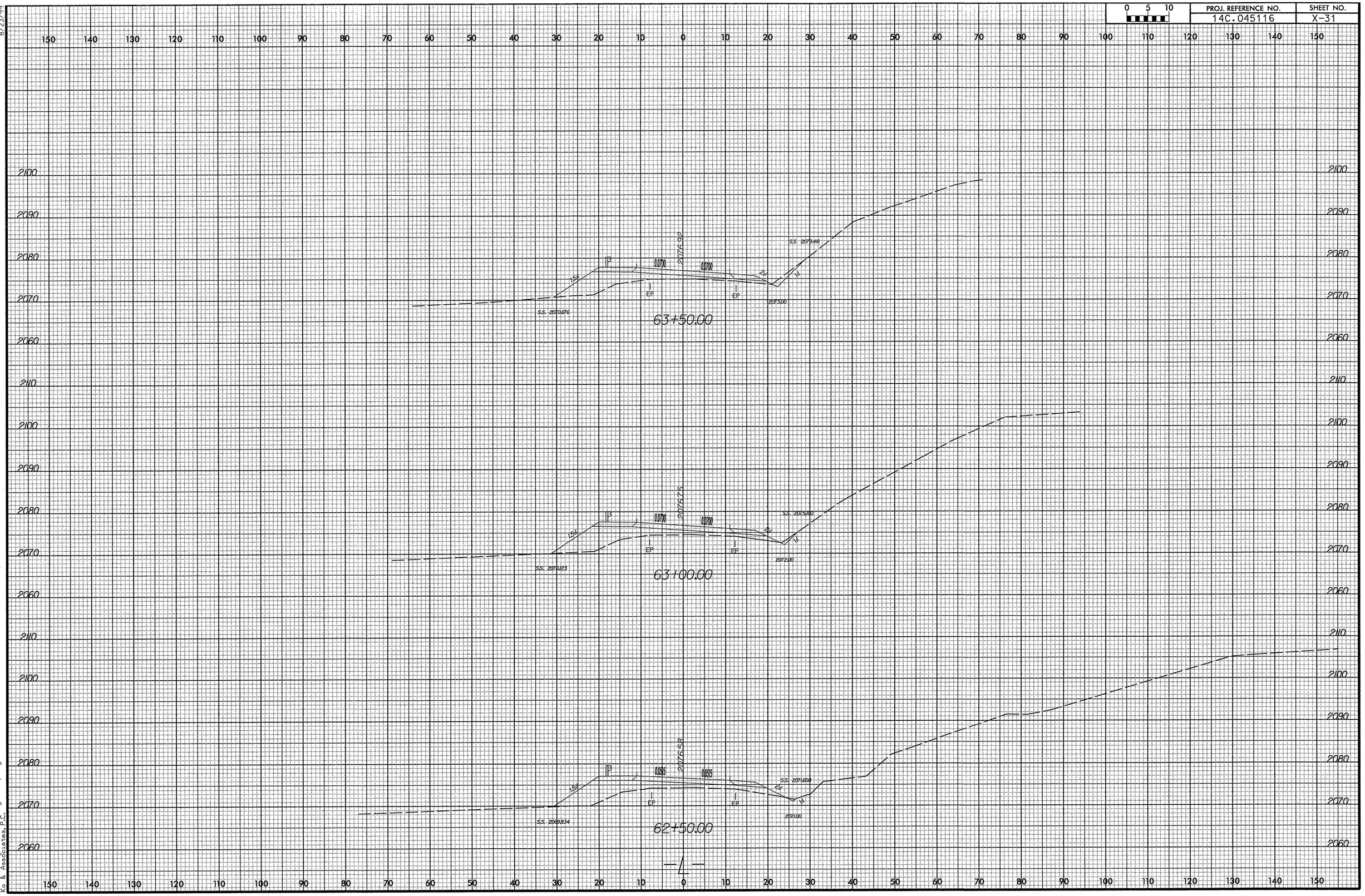

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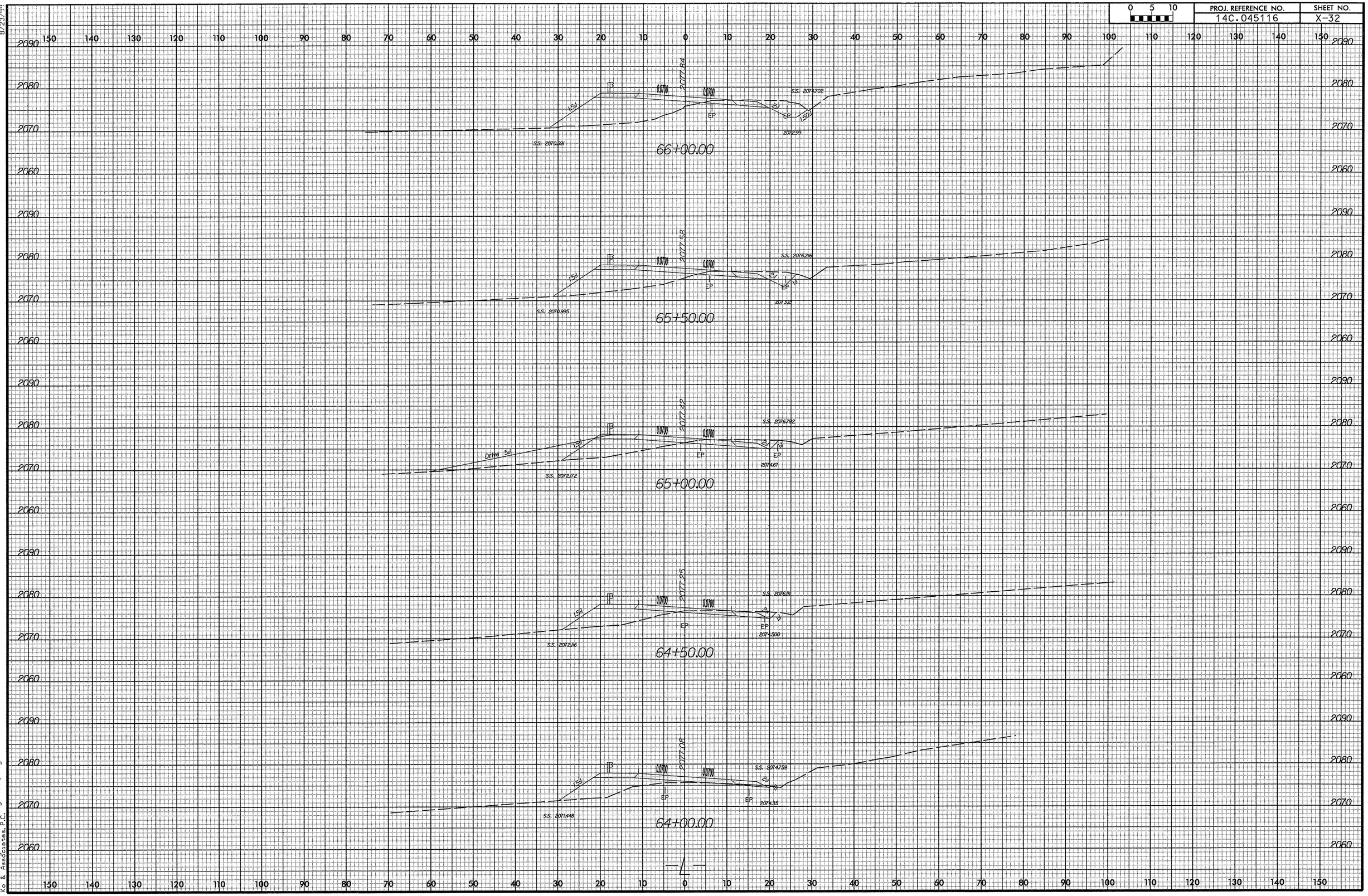

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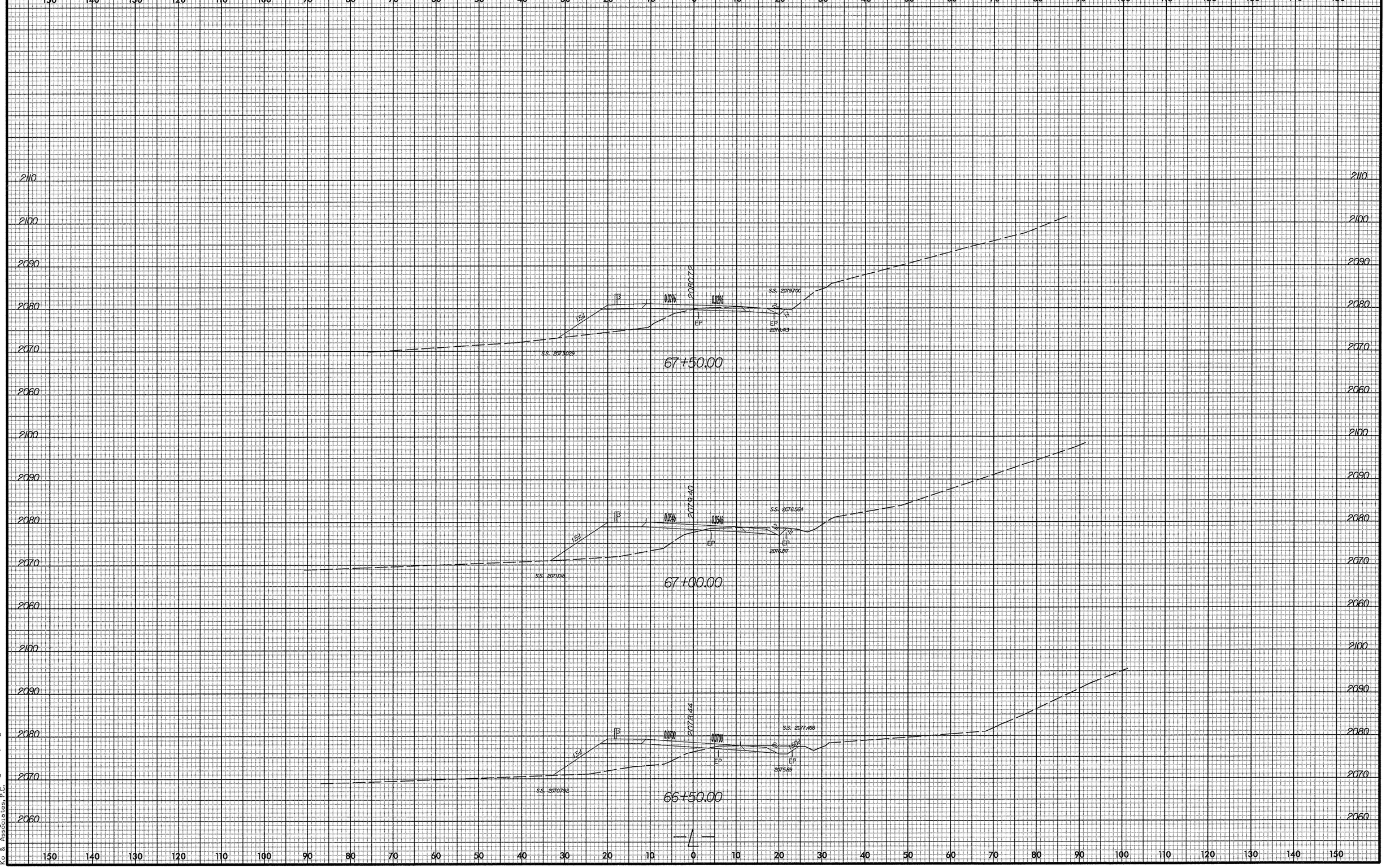

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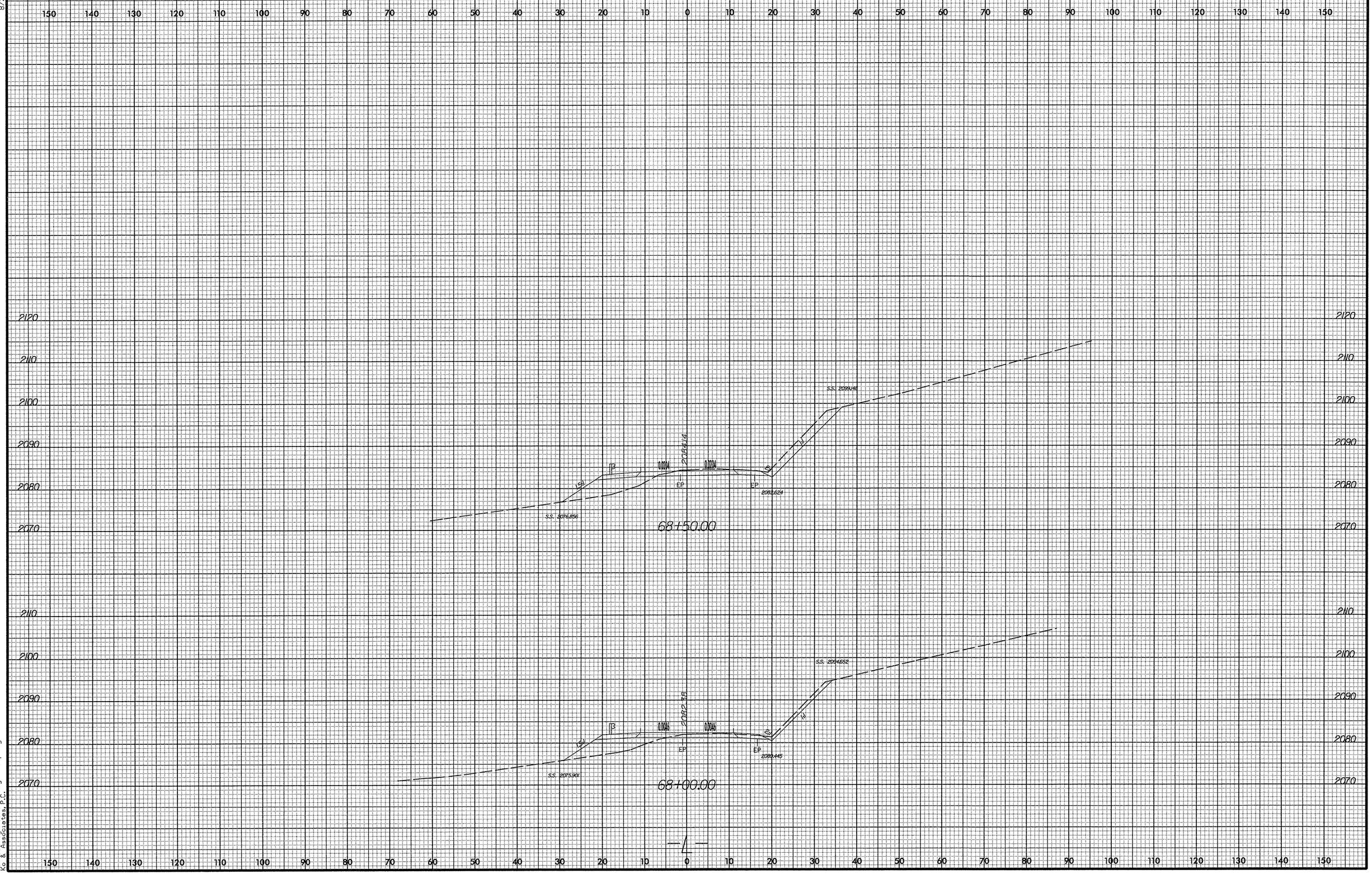

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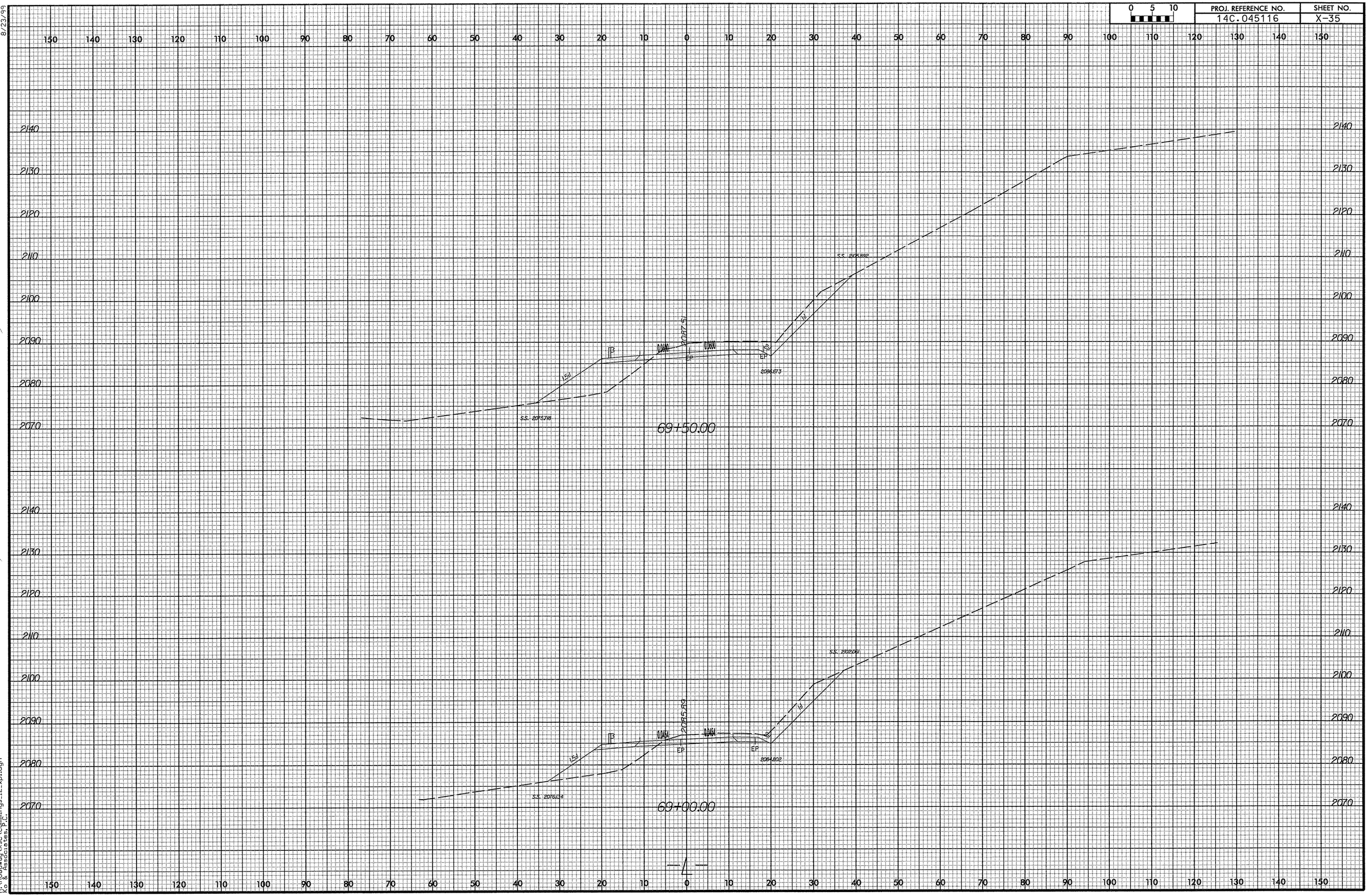

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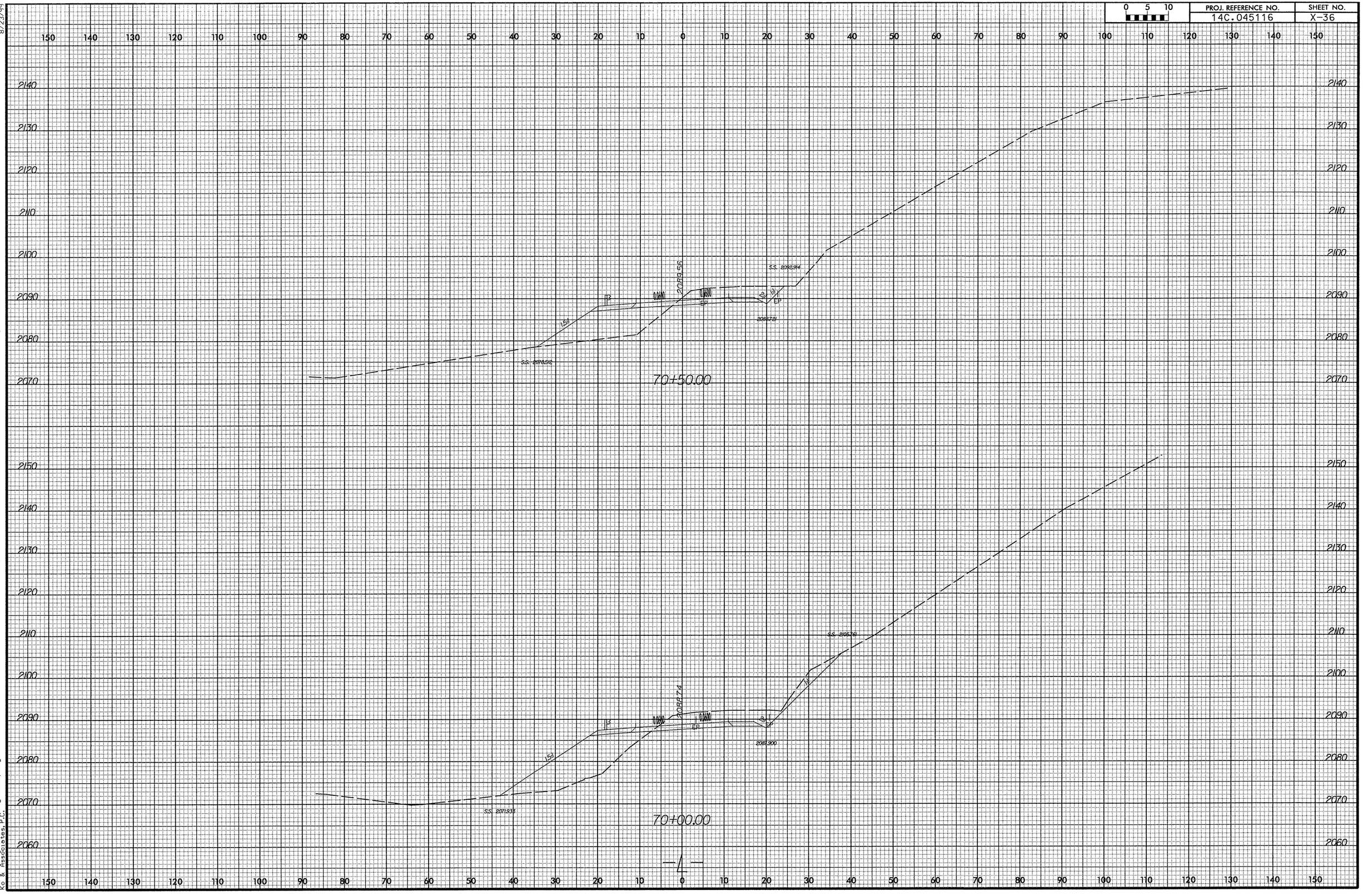

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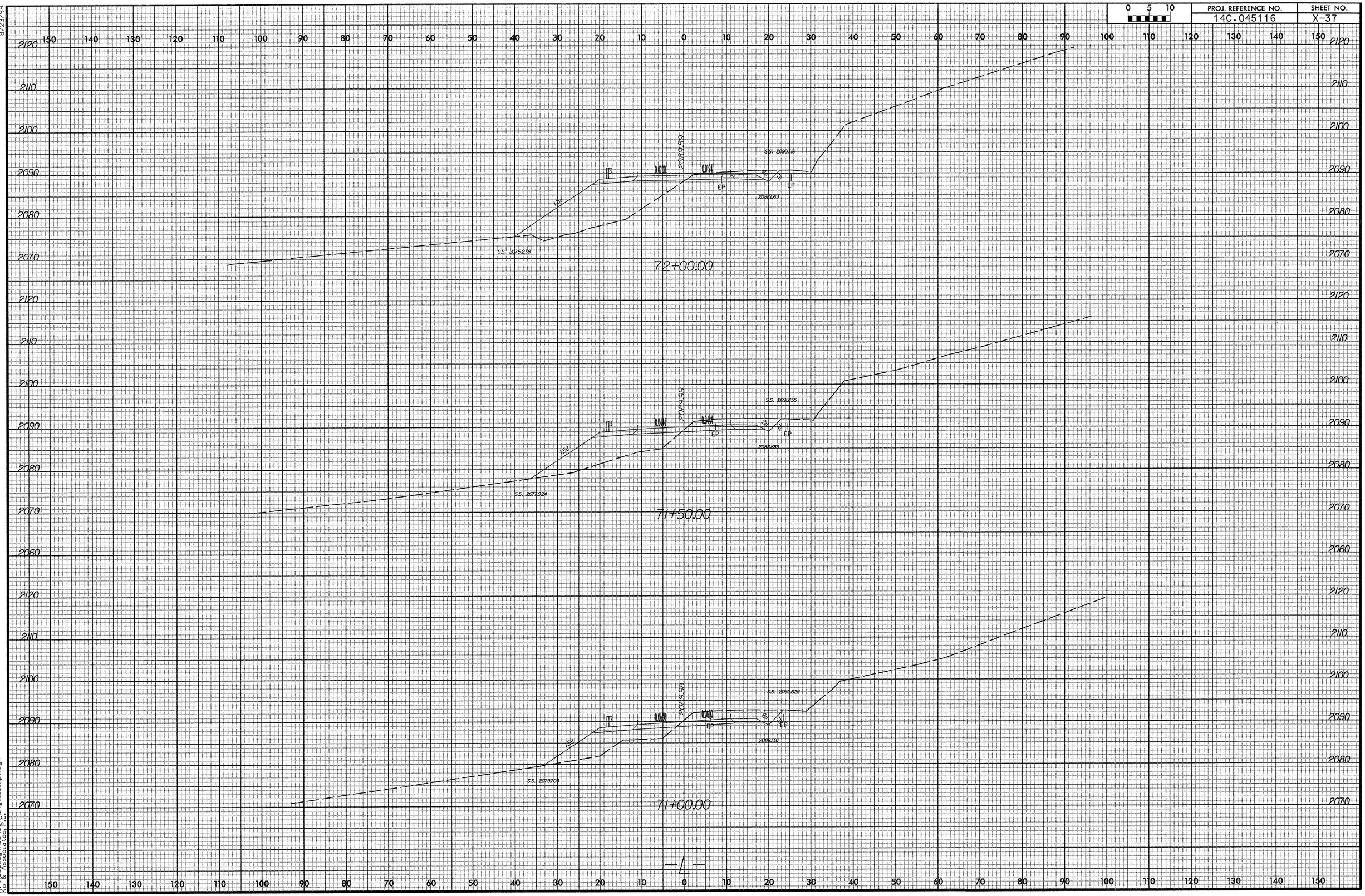

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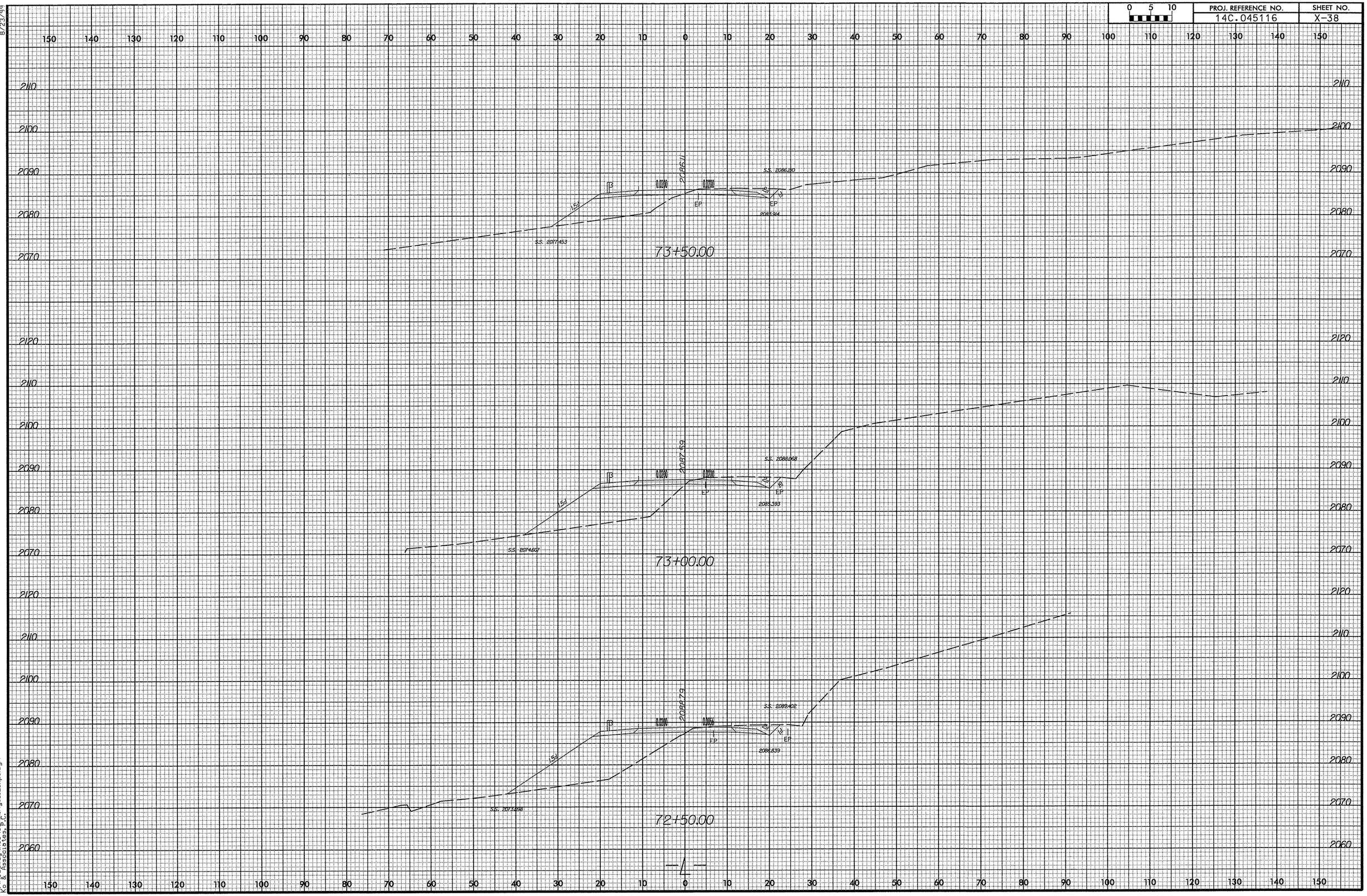

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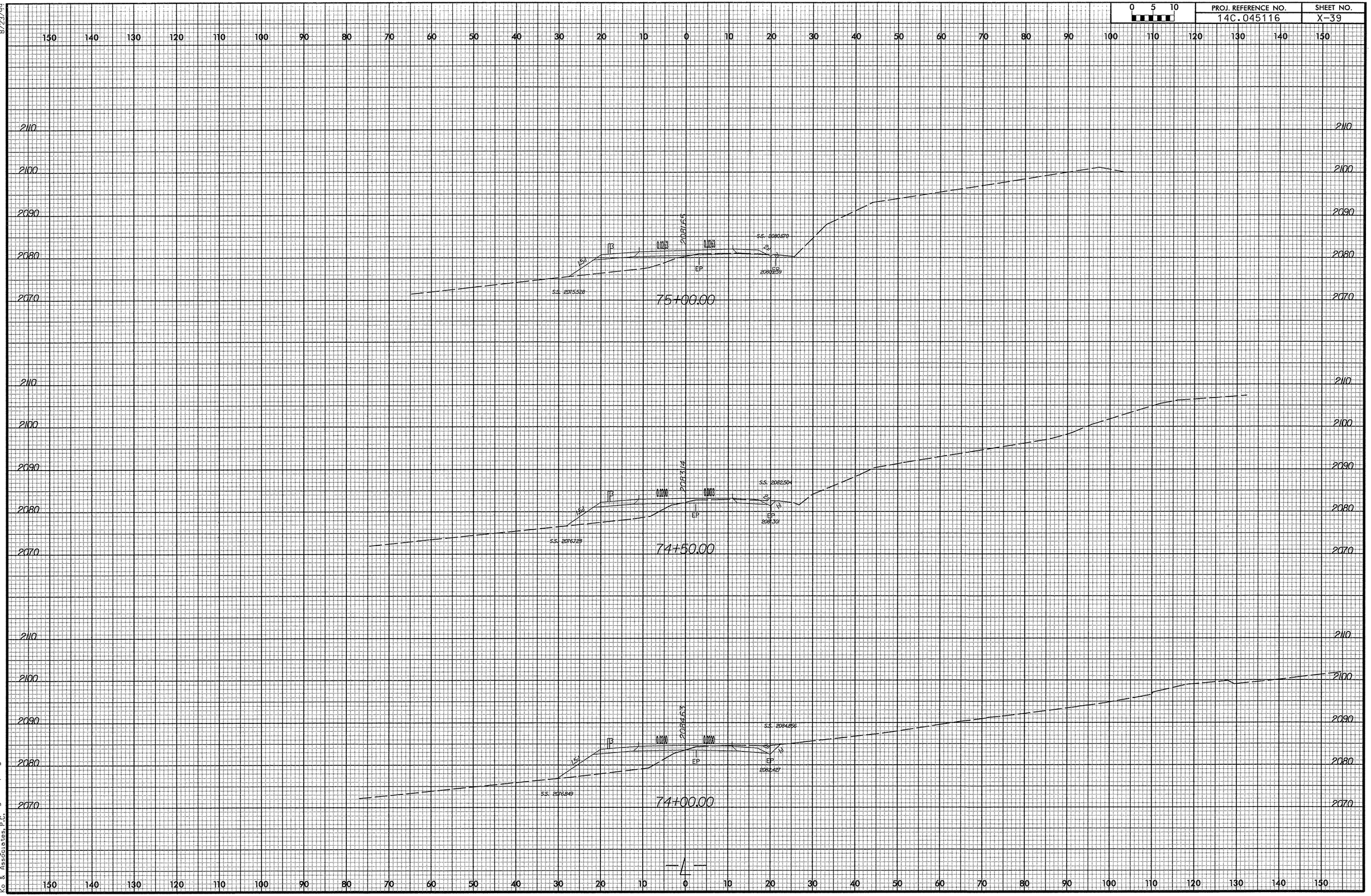

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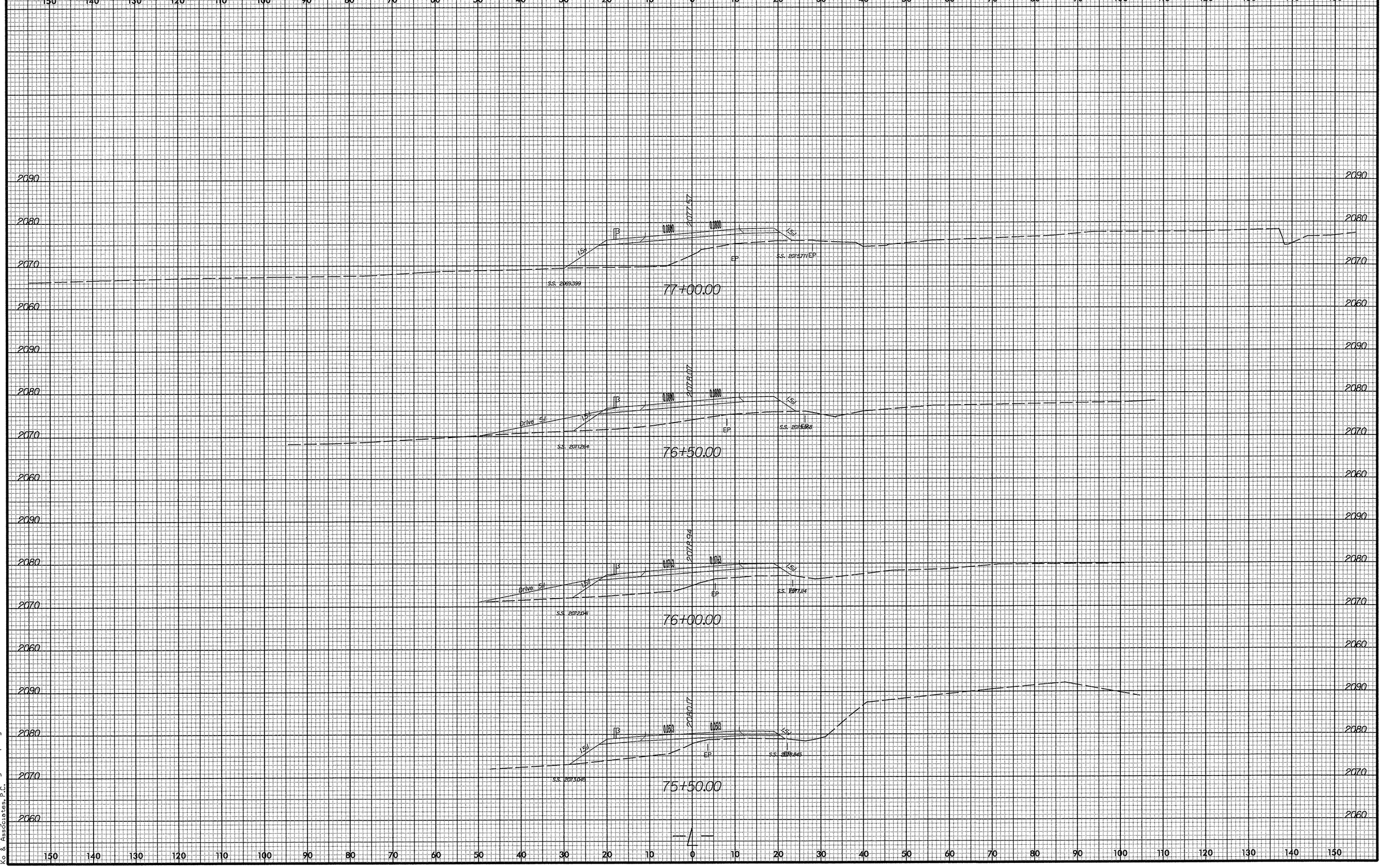

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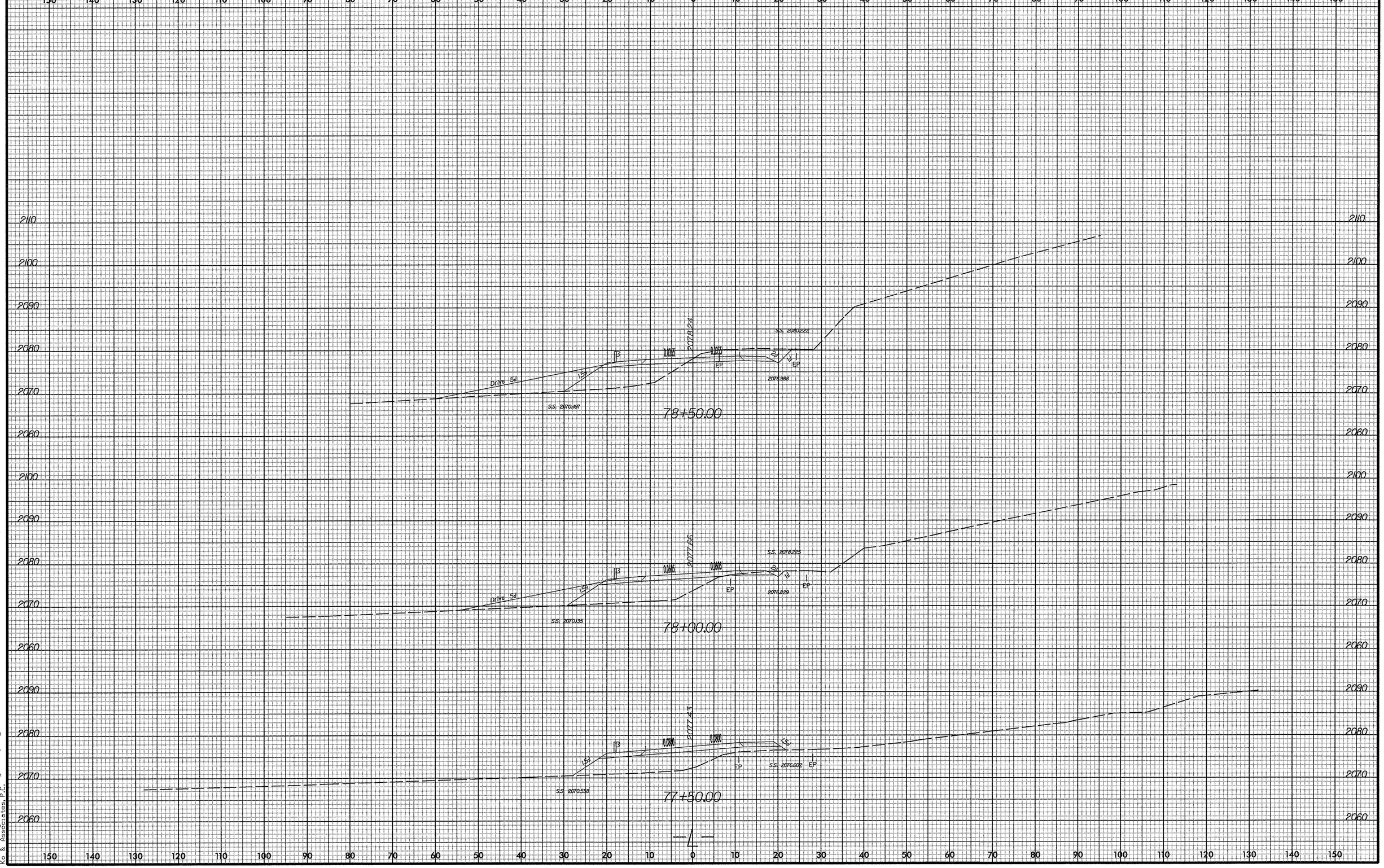

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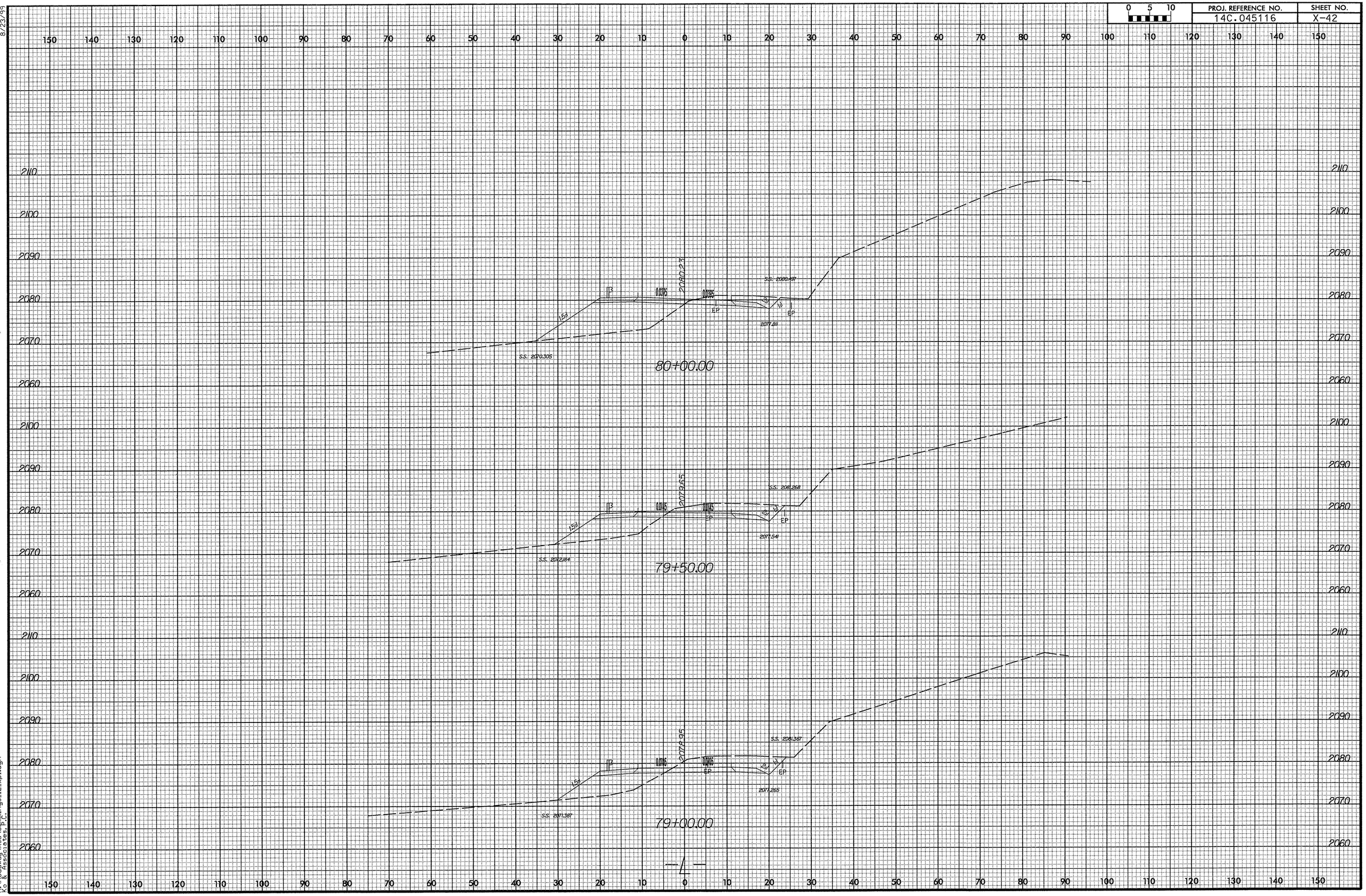

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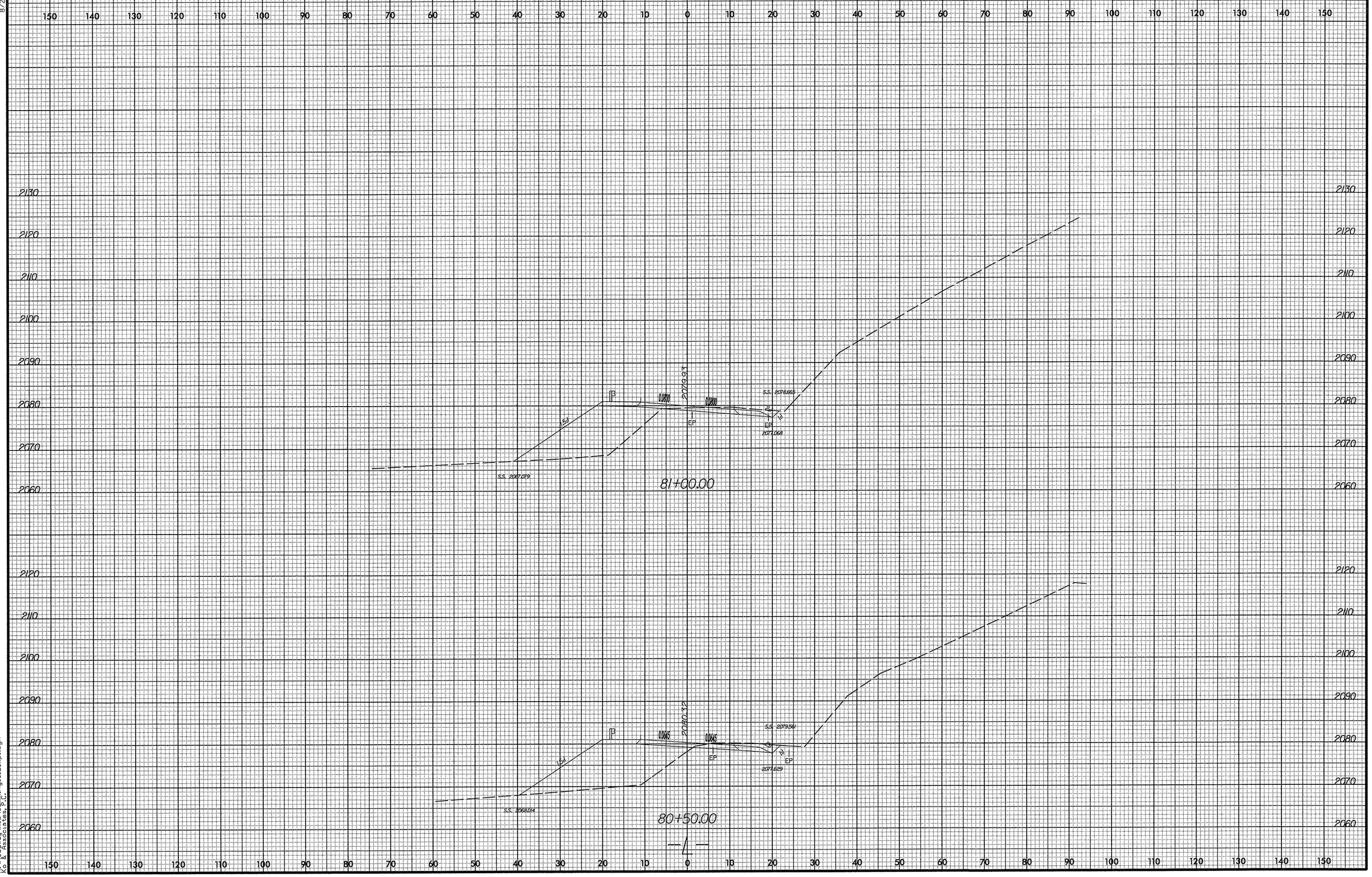

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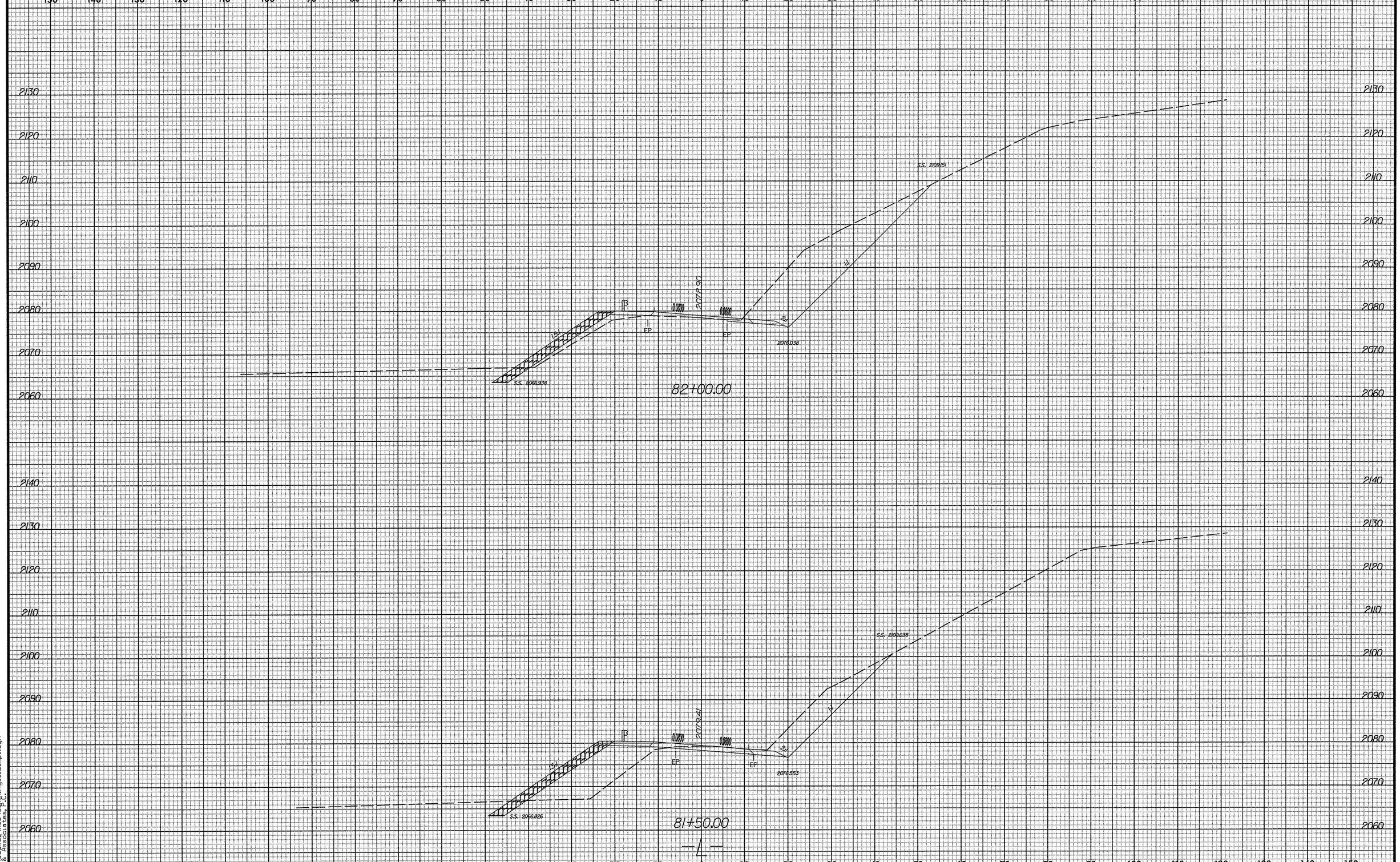

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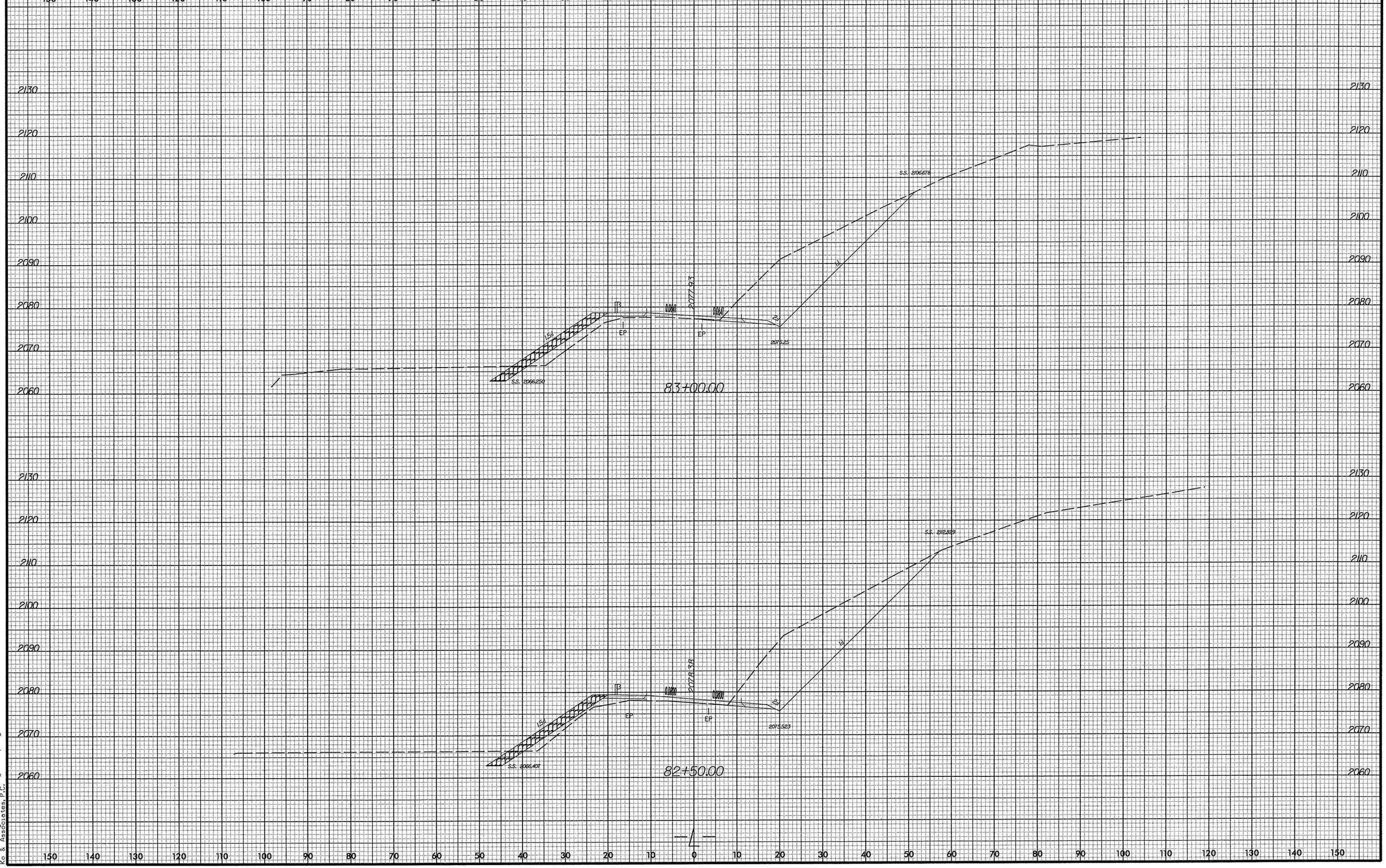

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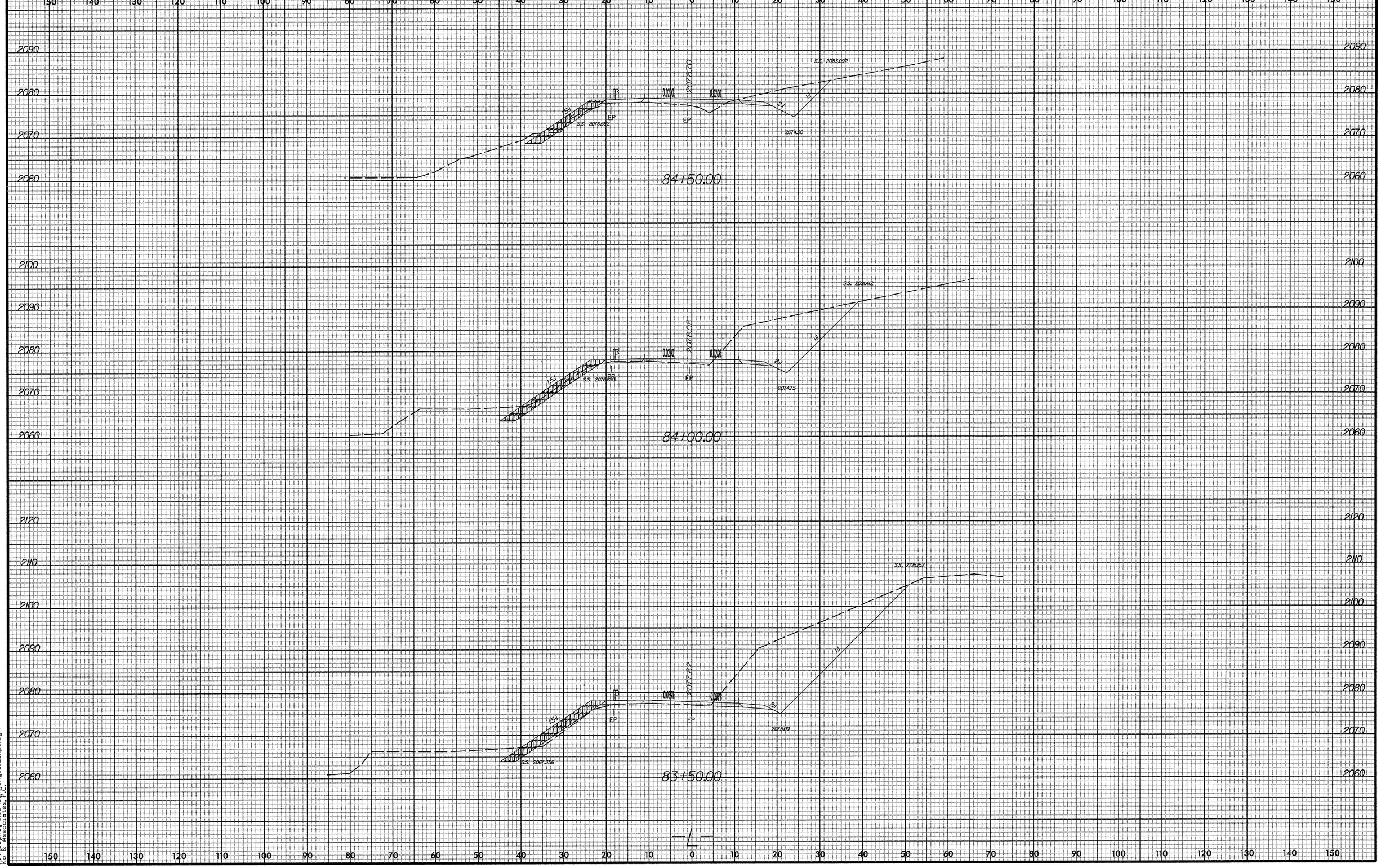

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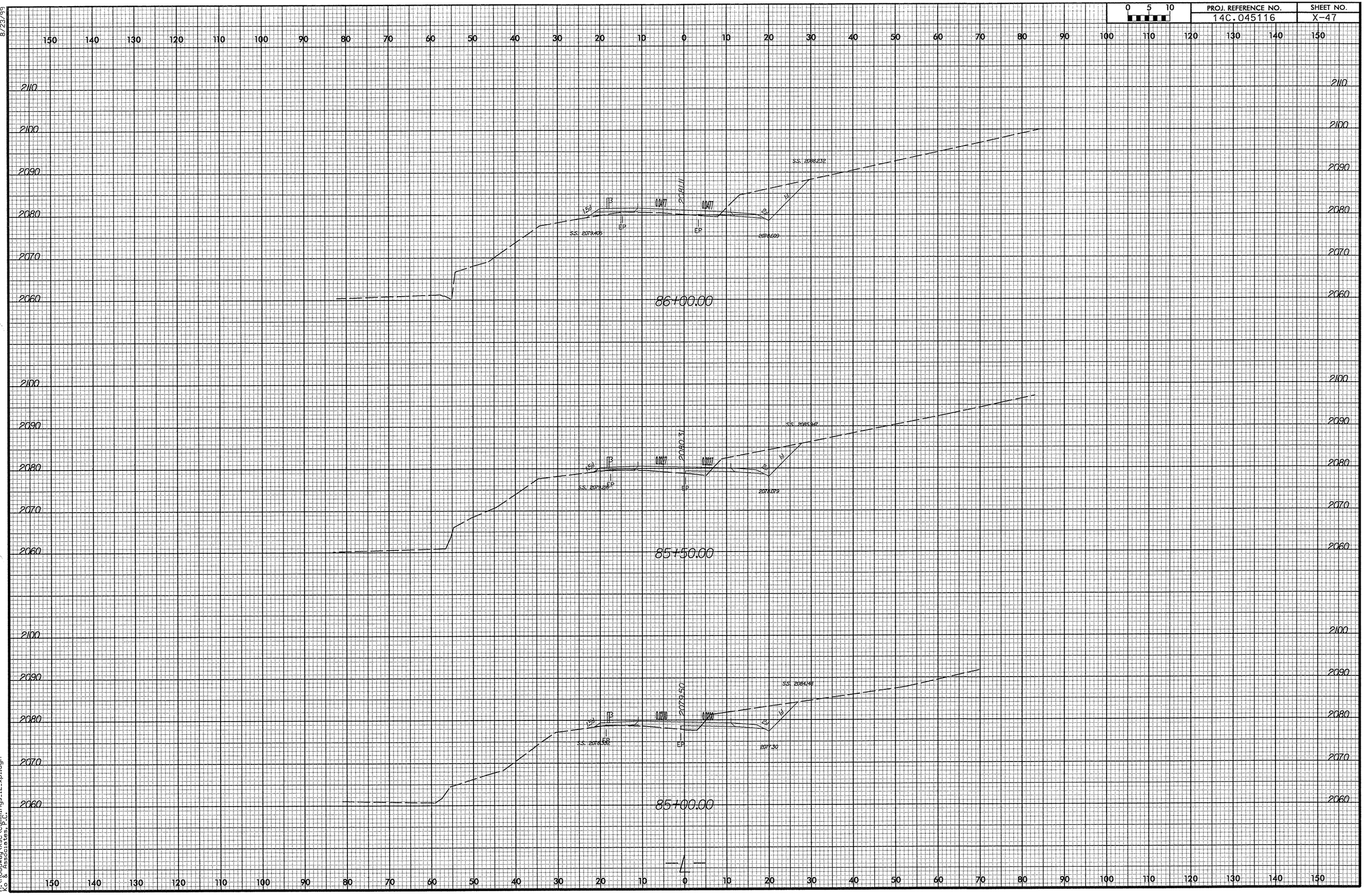

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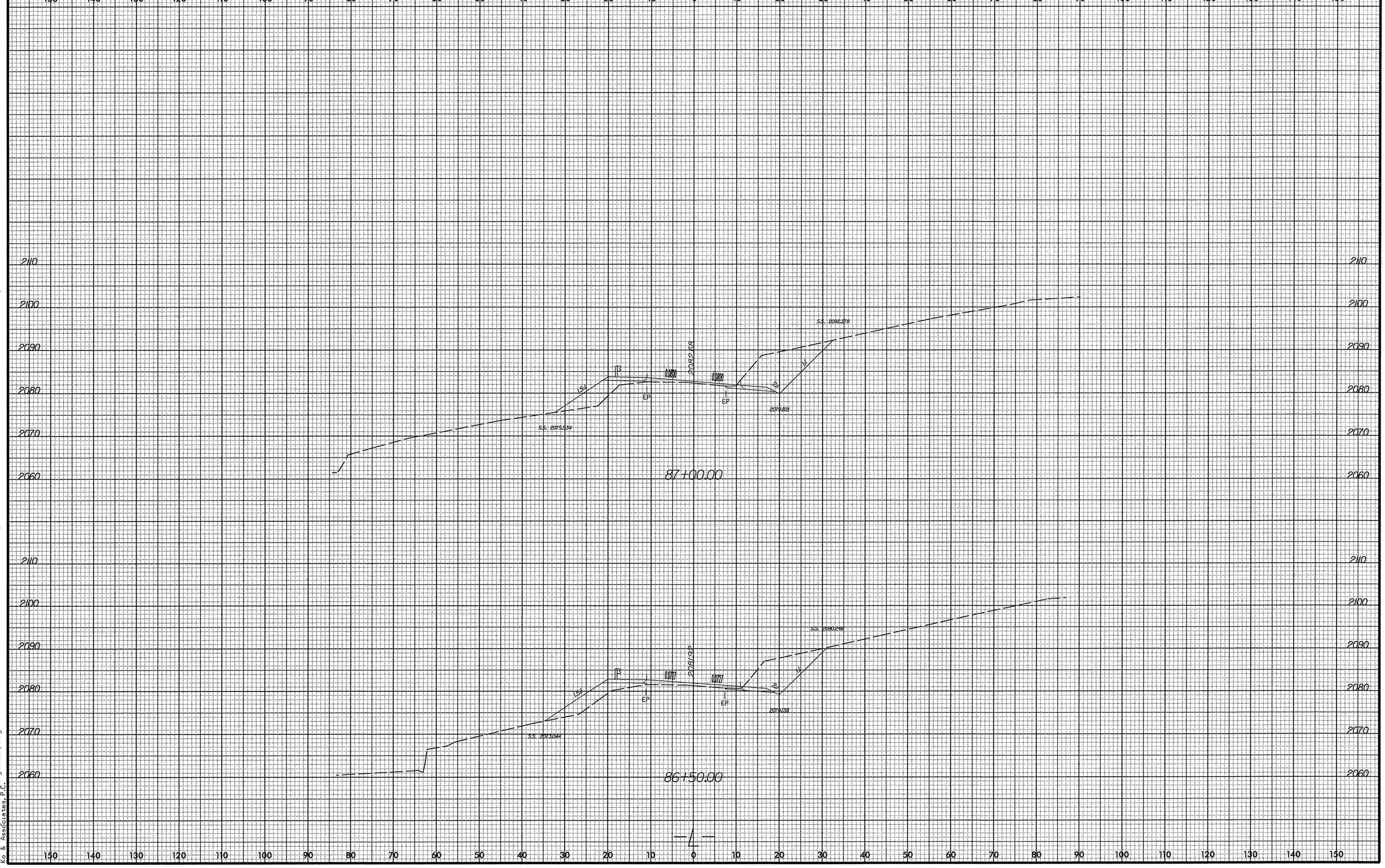

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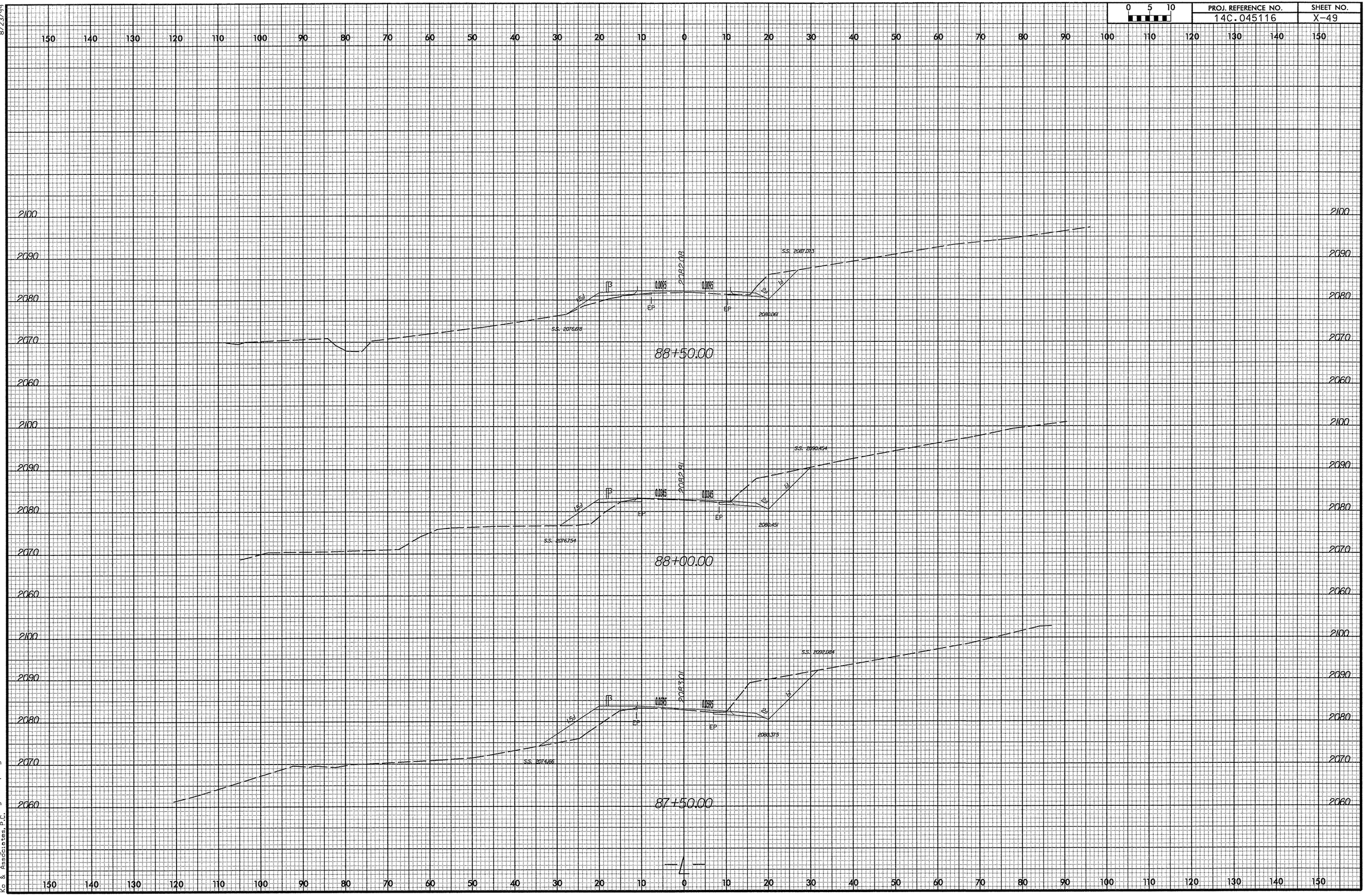

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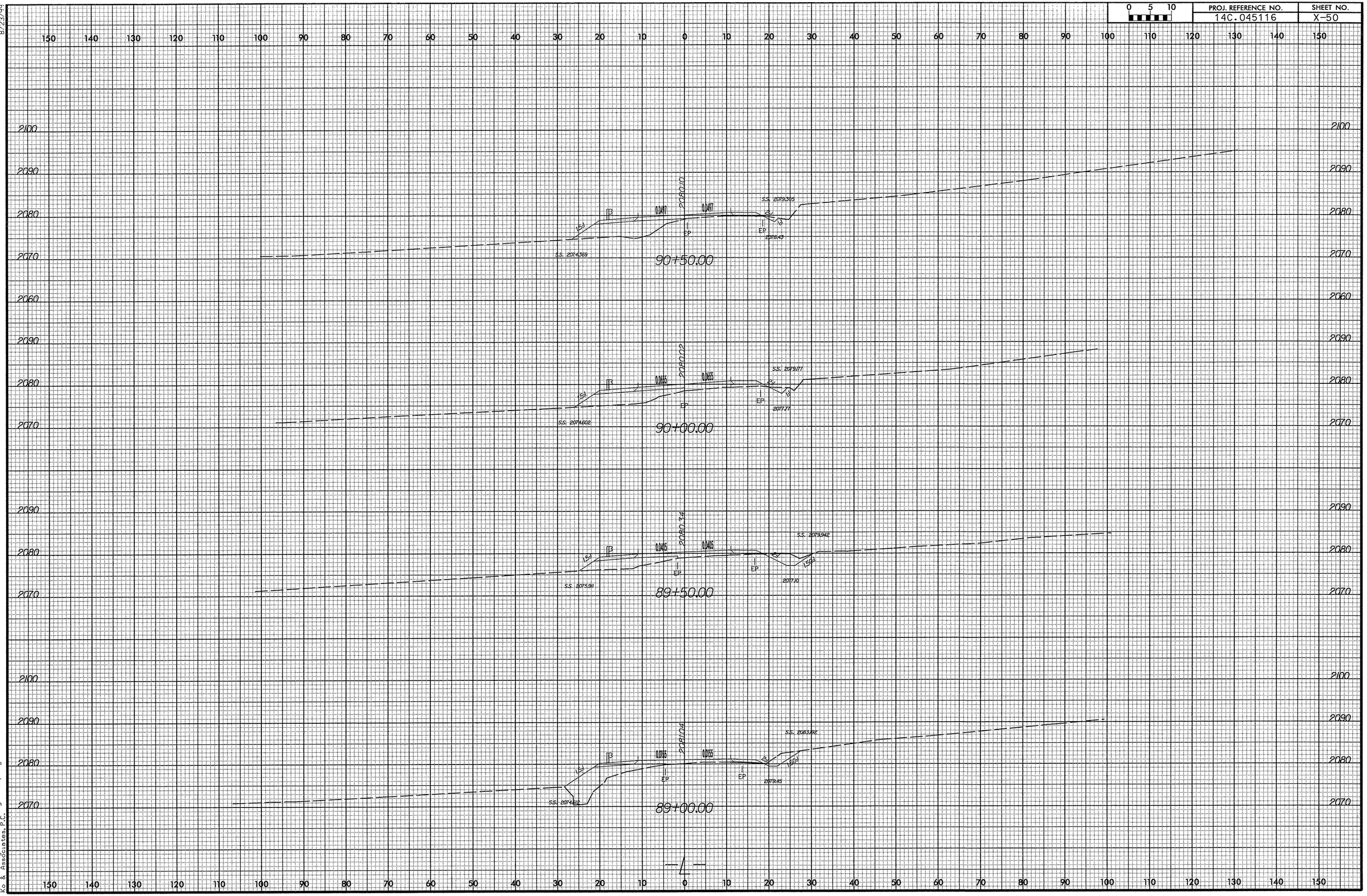

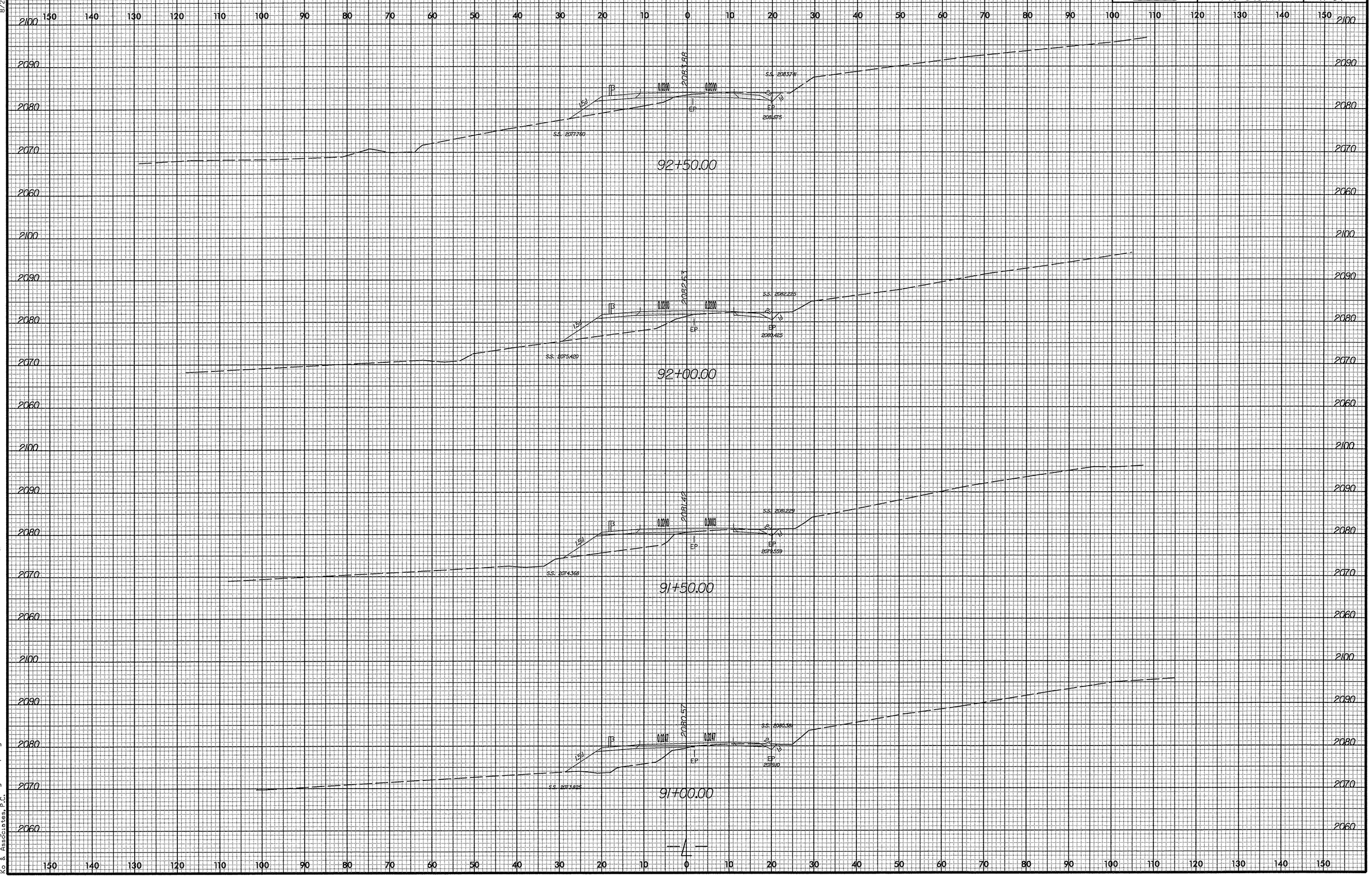

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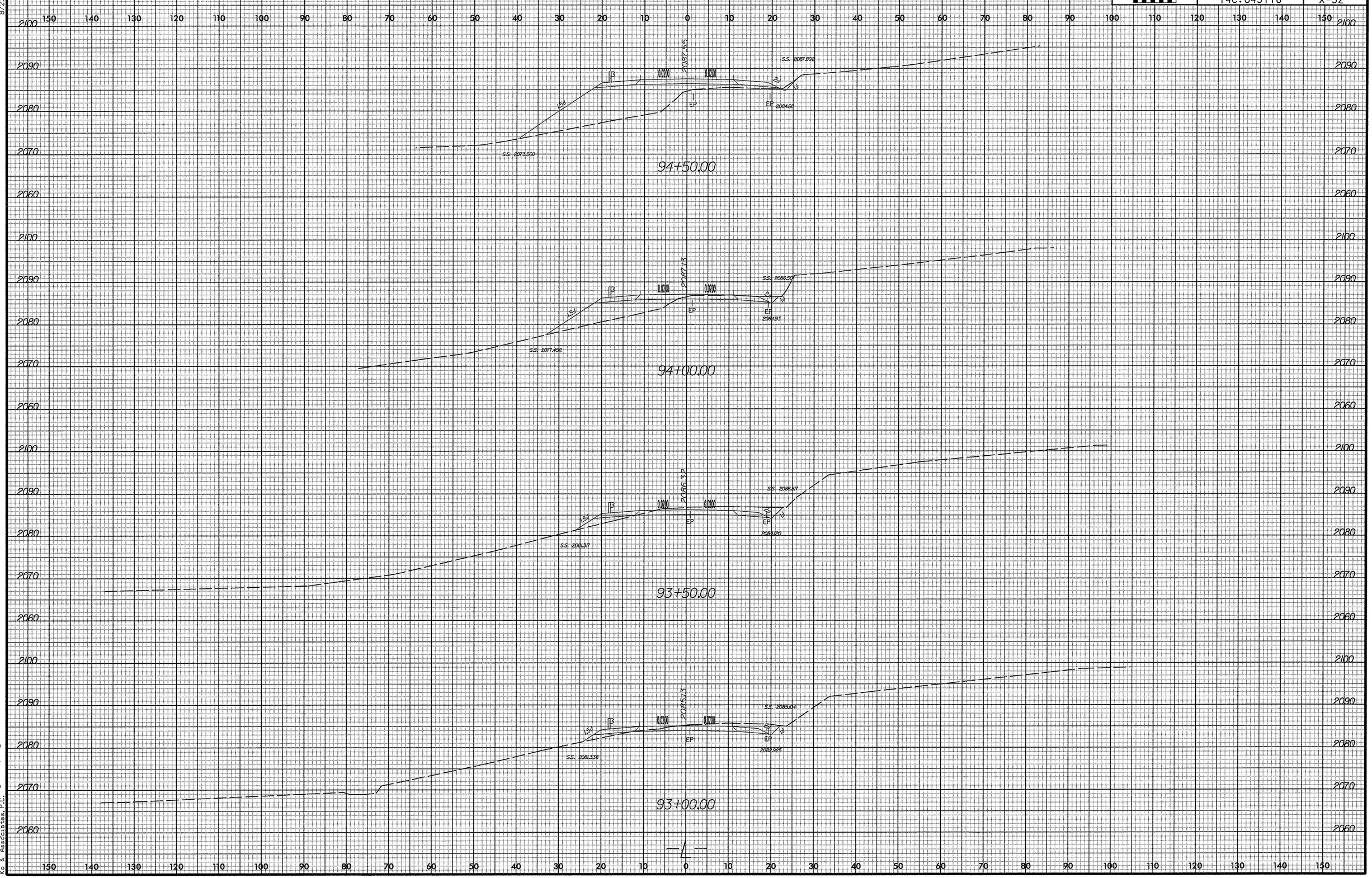

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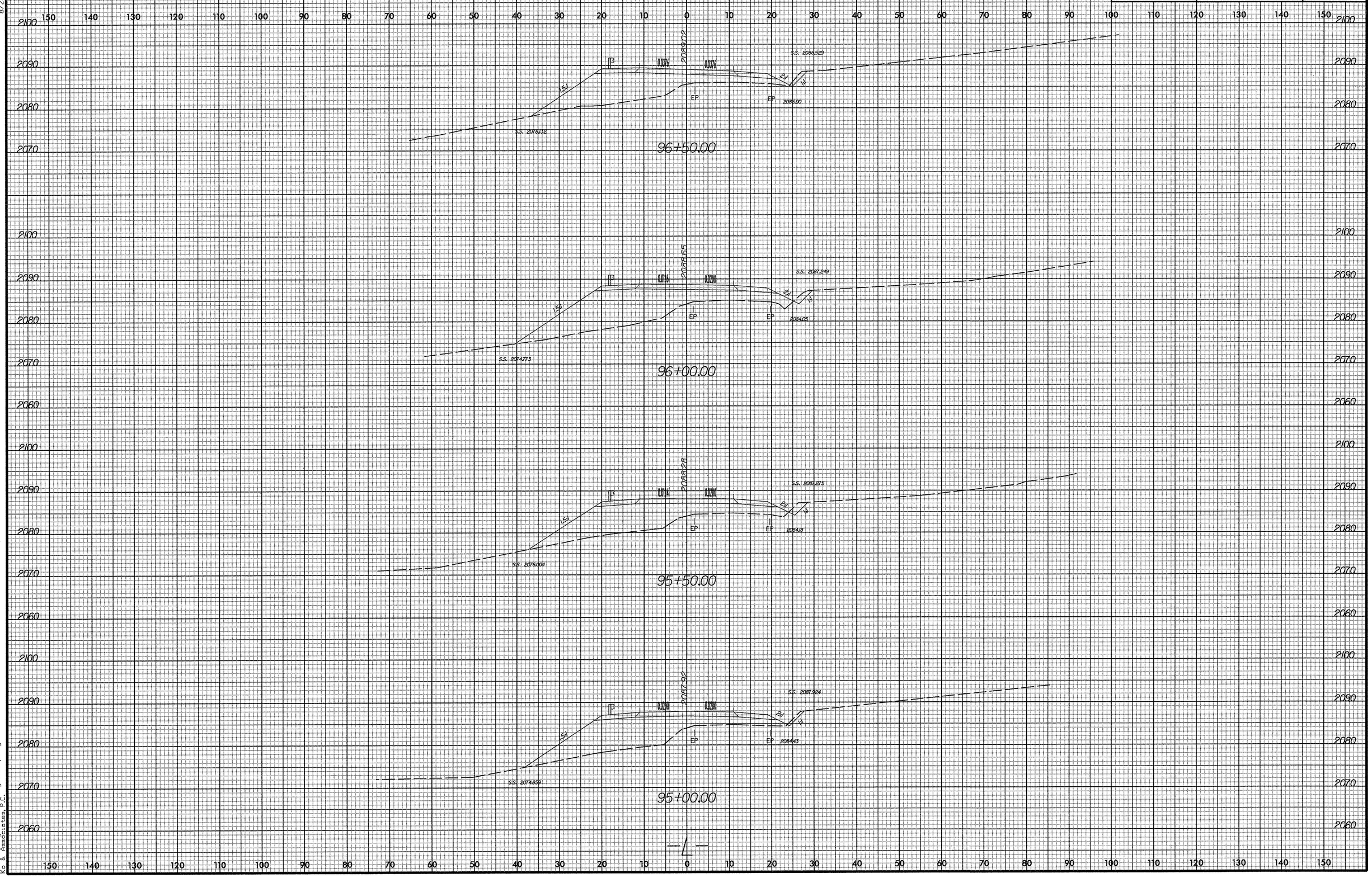

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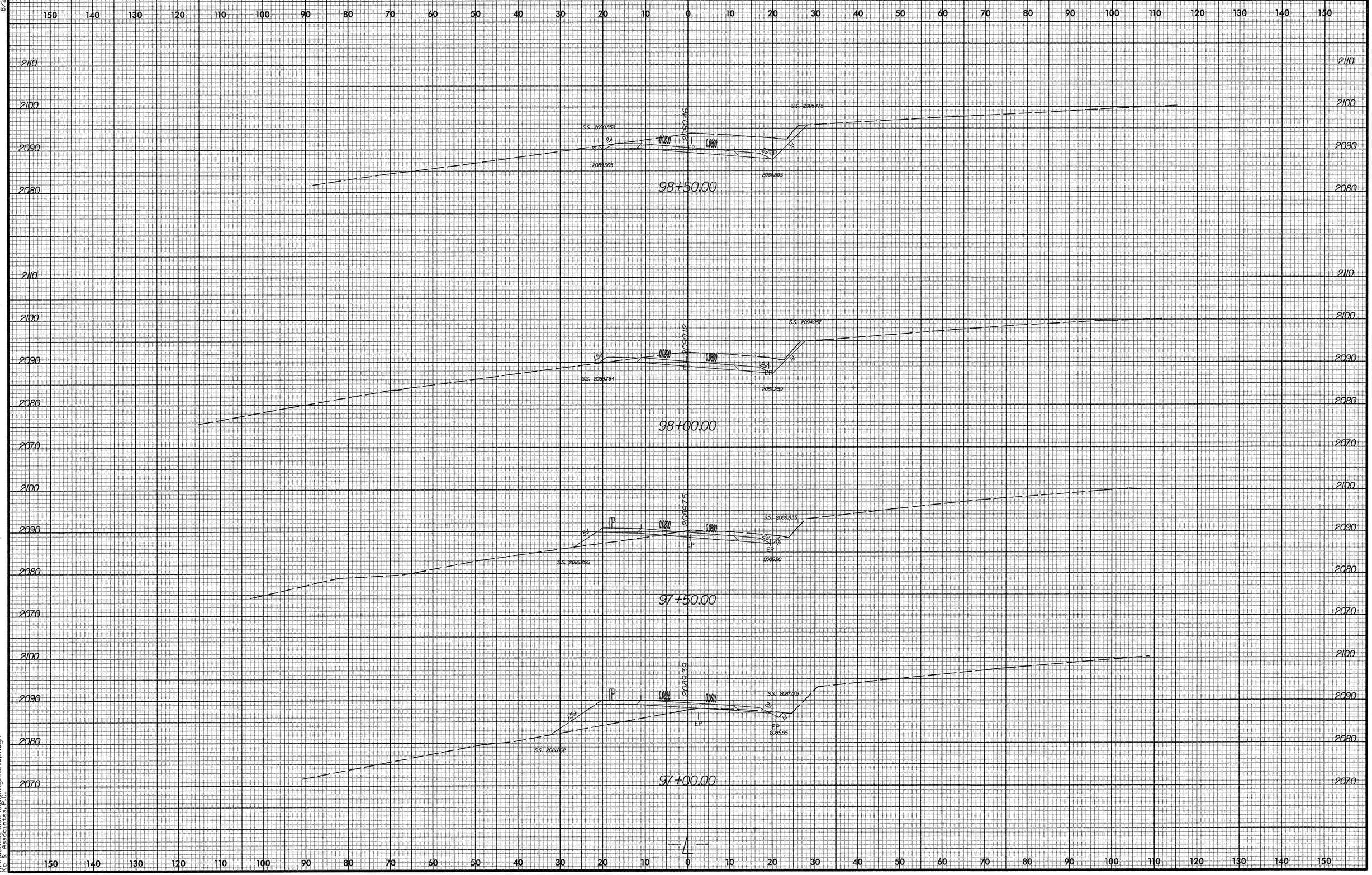

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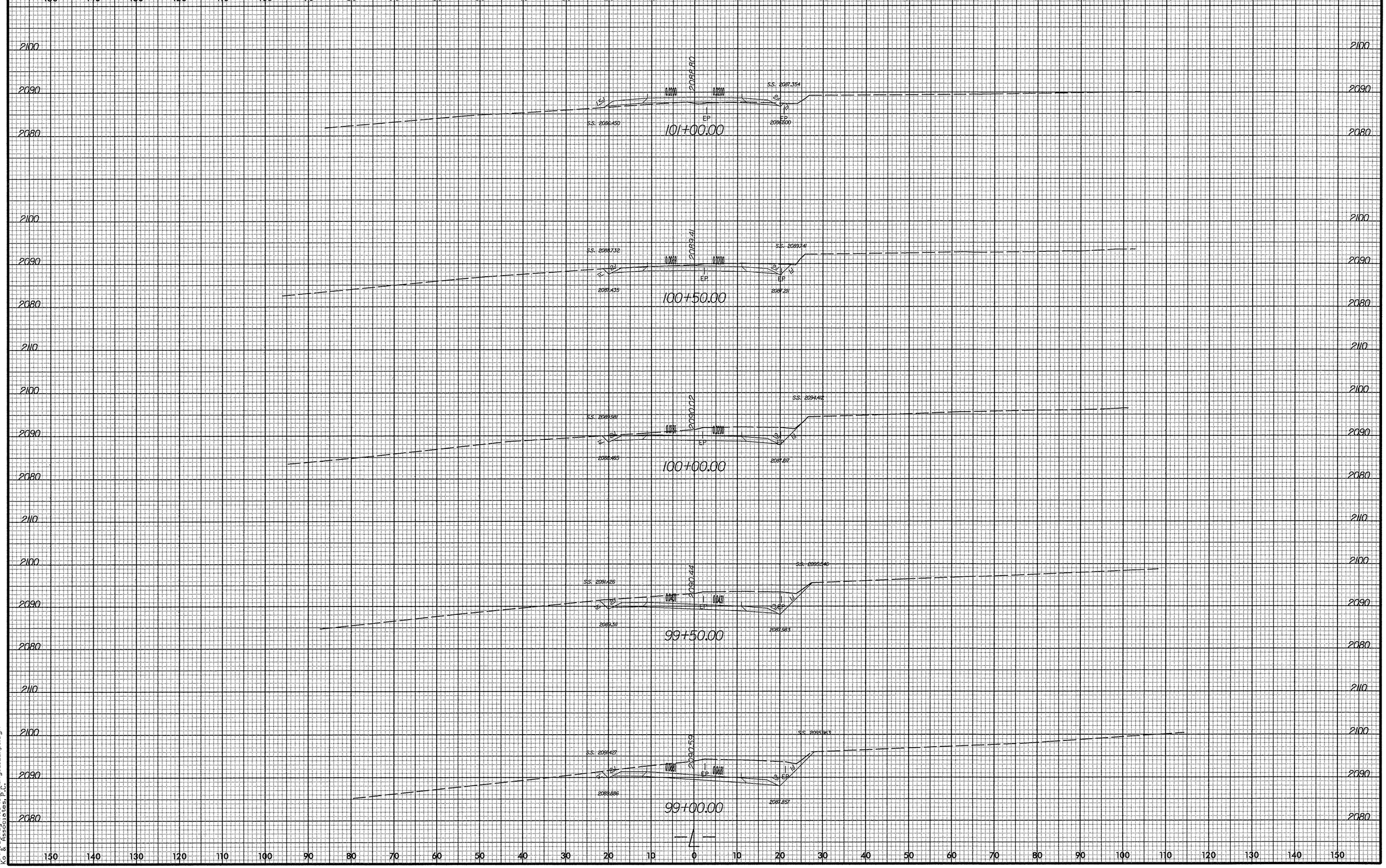

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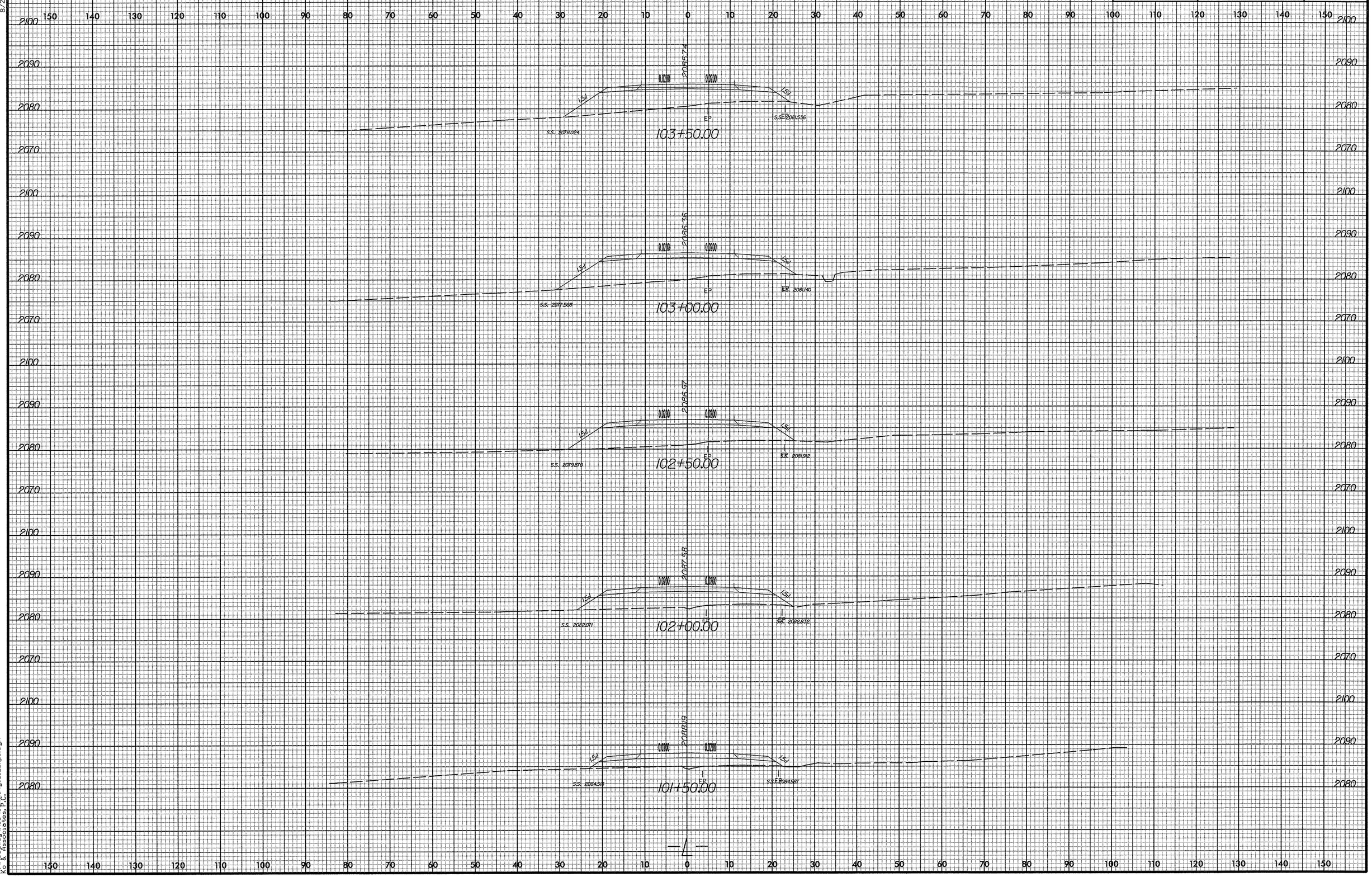

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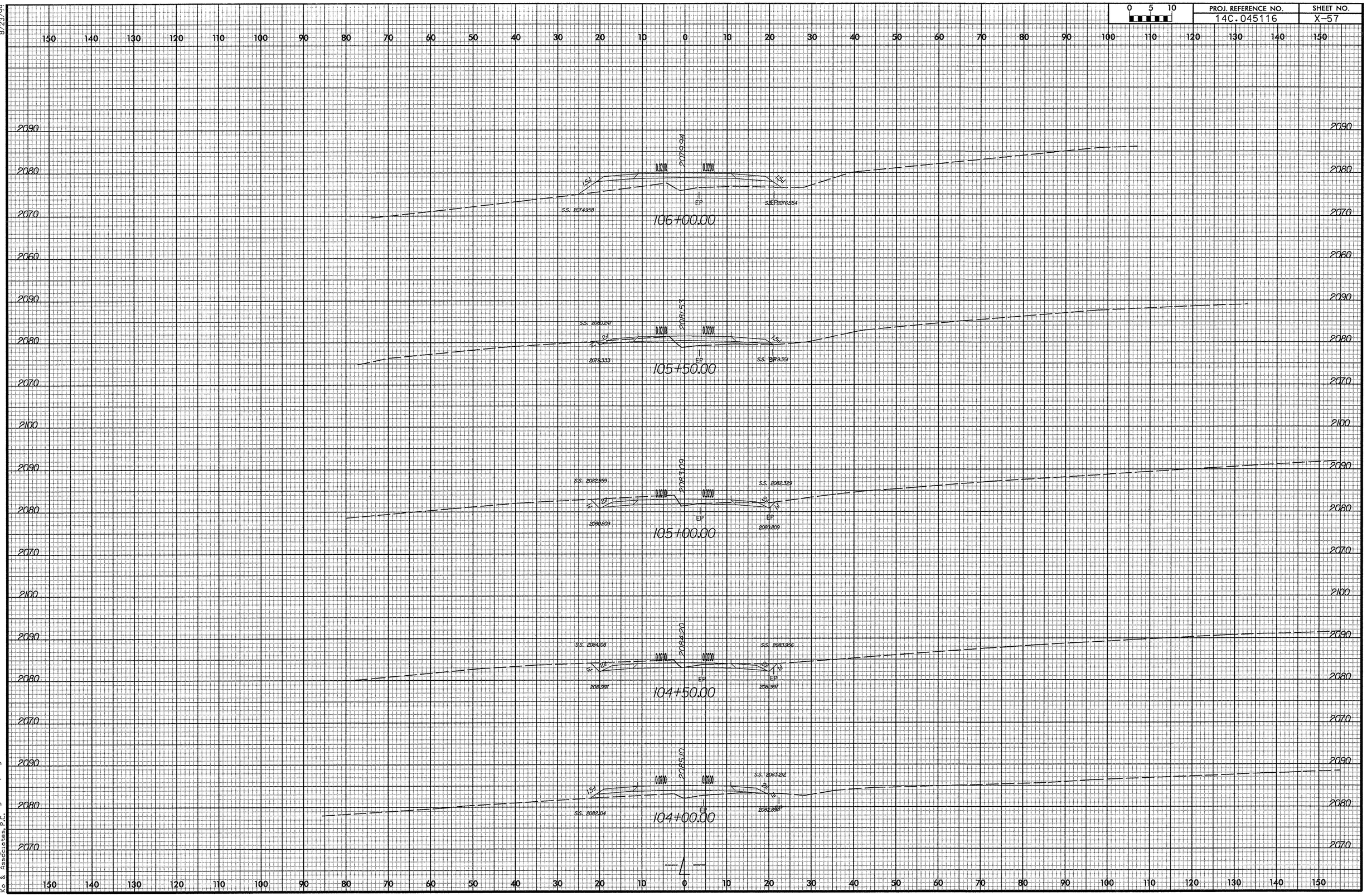

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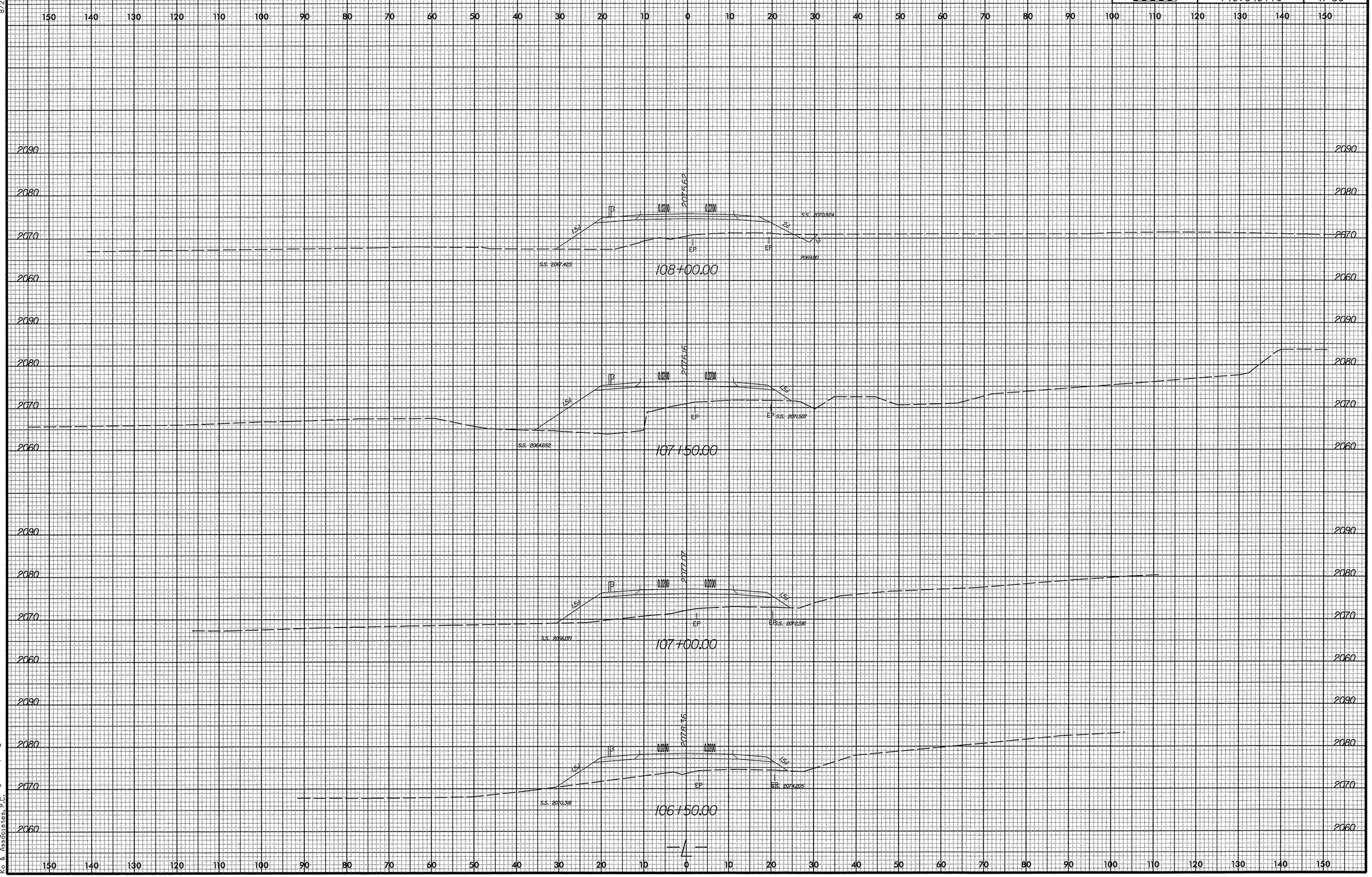

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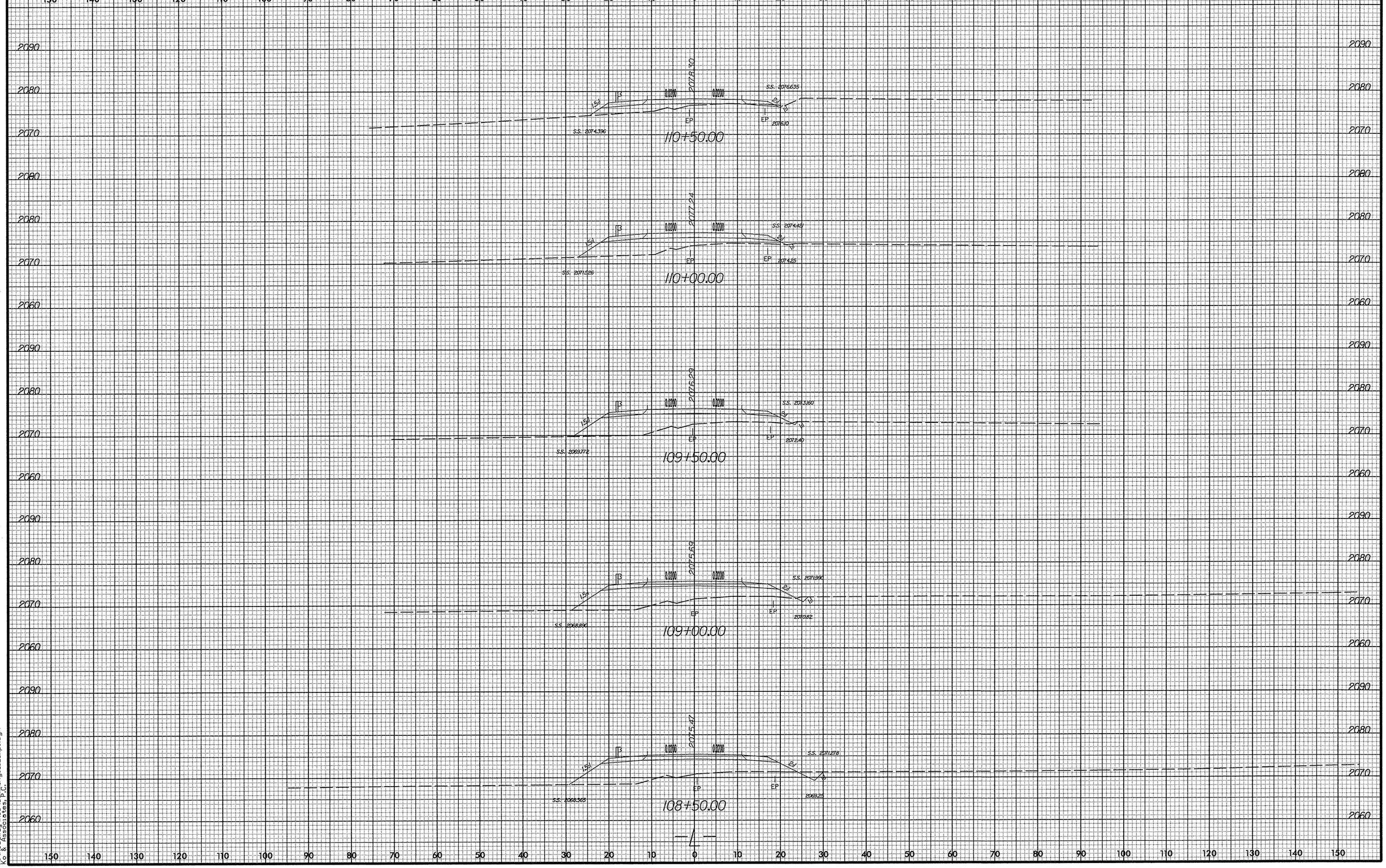

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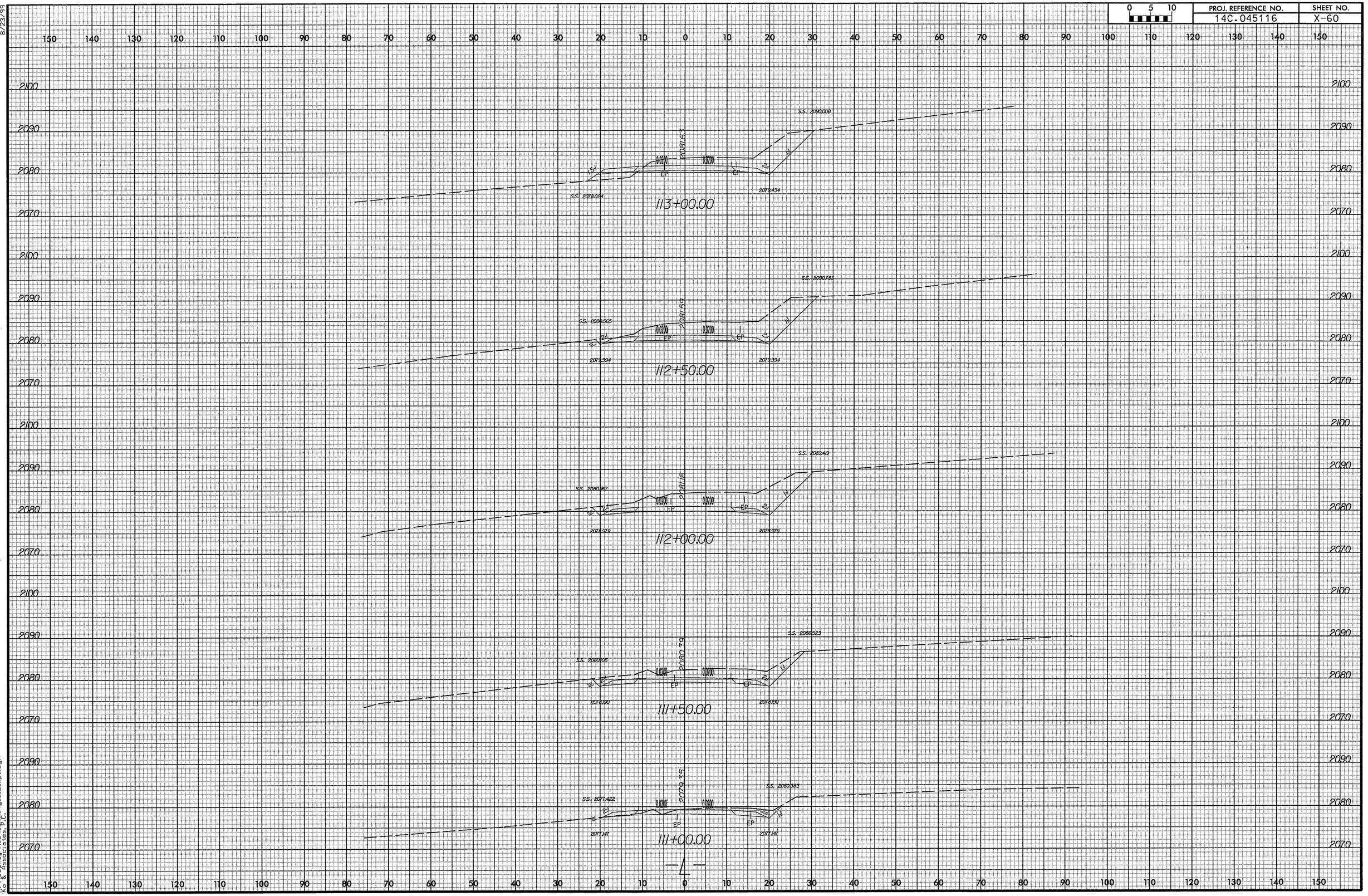

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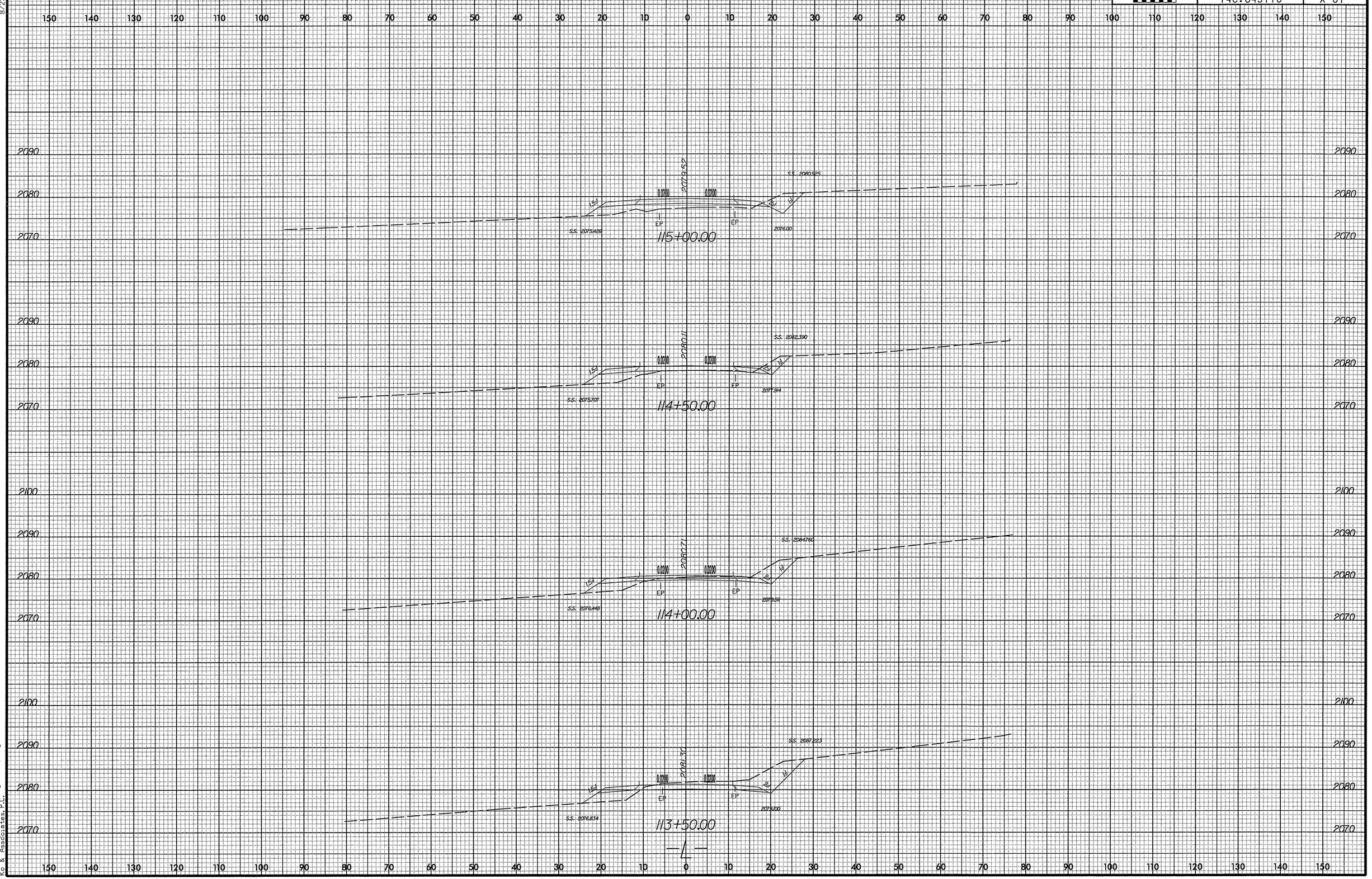

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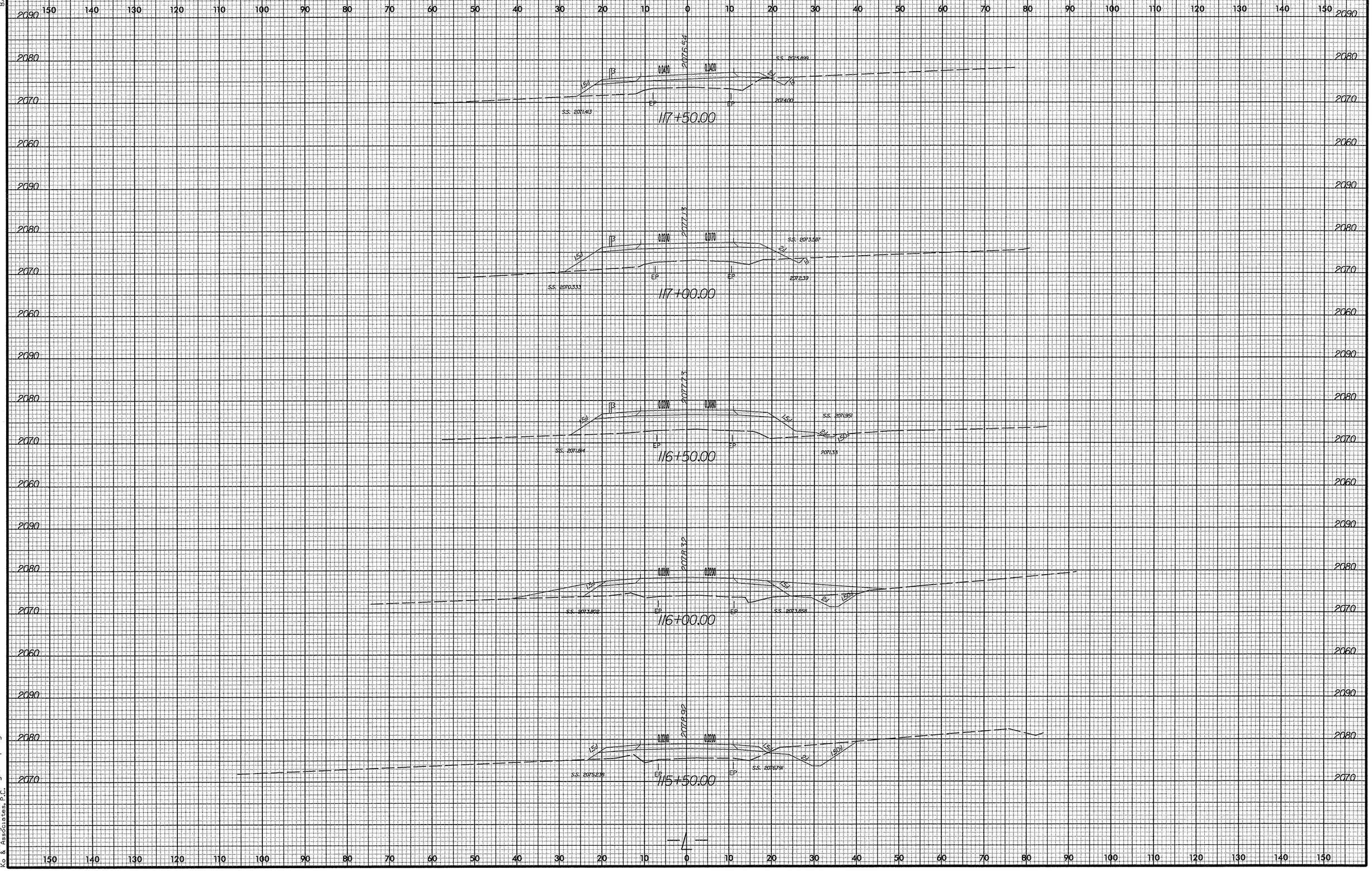

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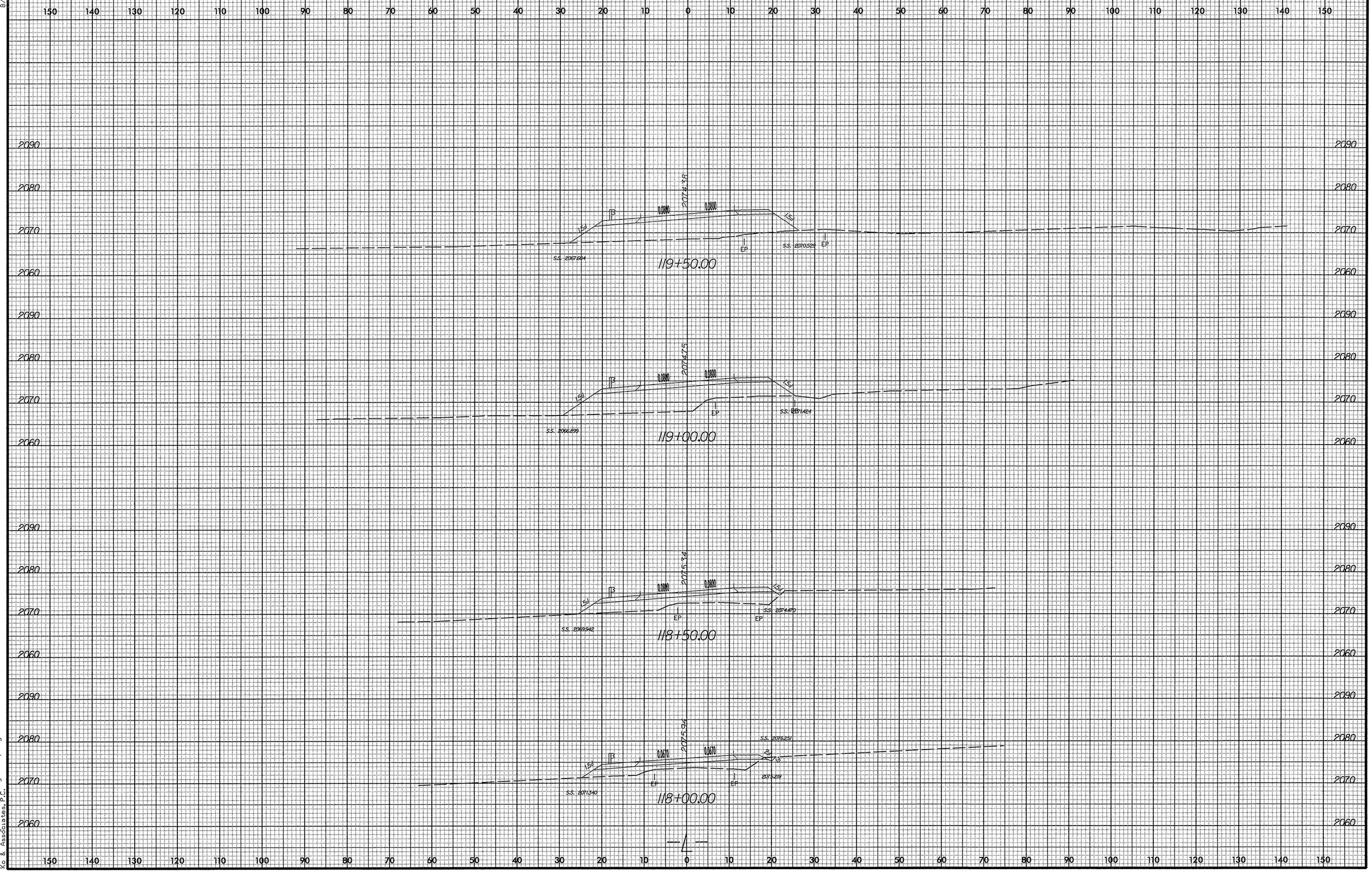

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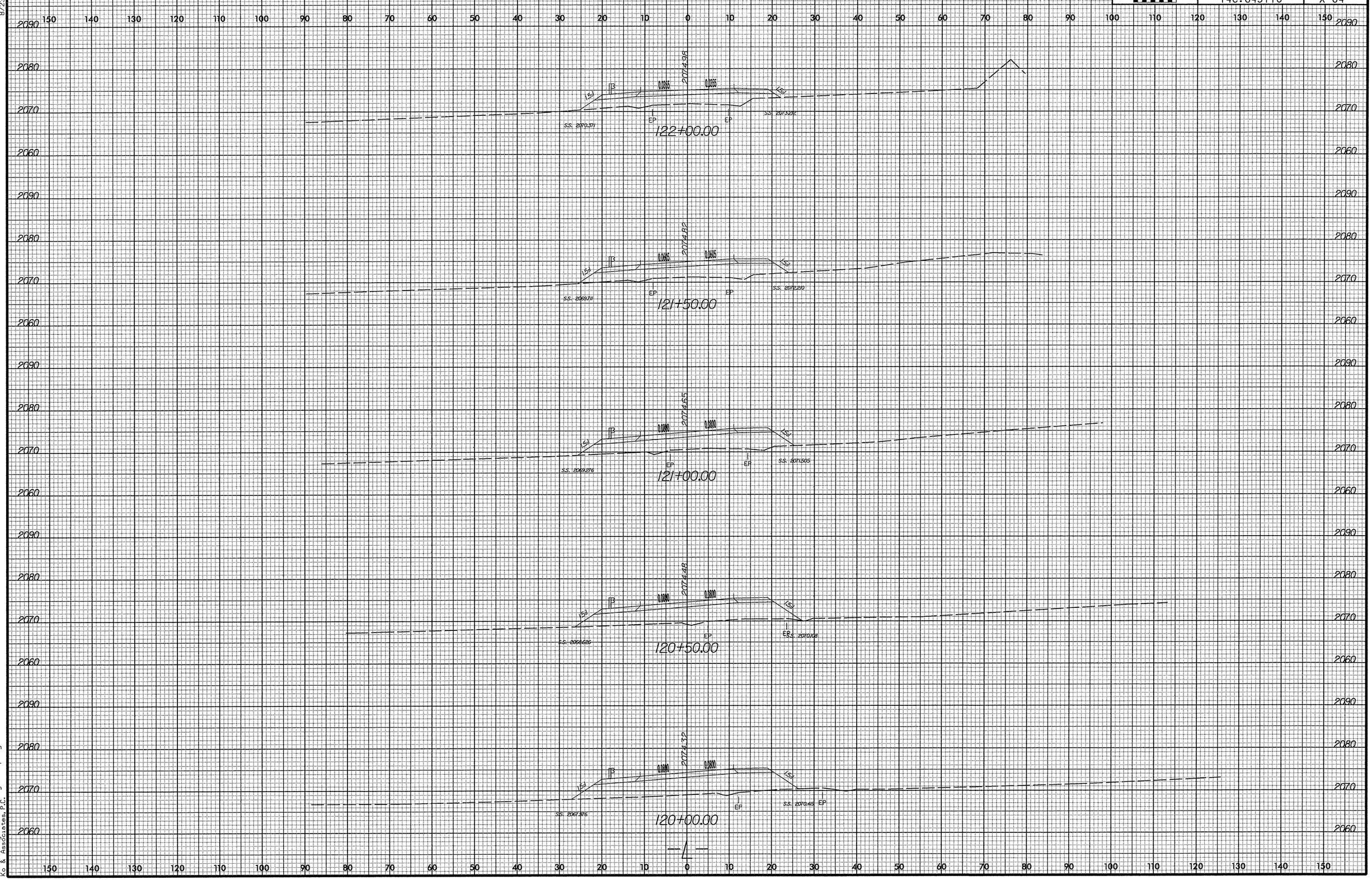

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Ko & Associates, P.C.

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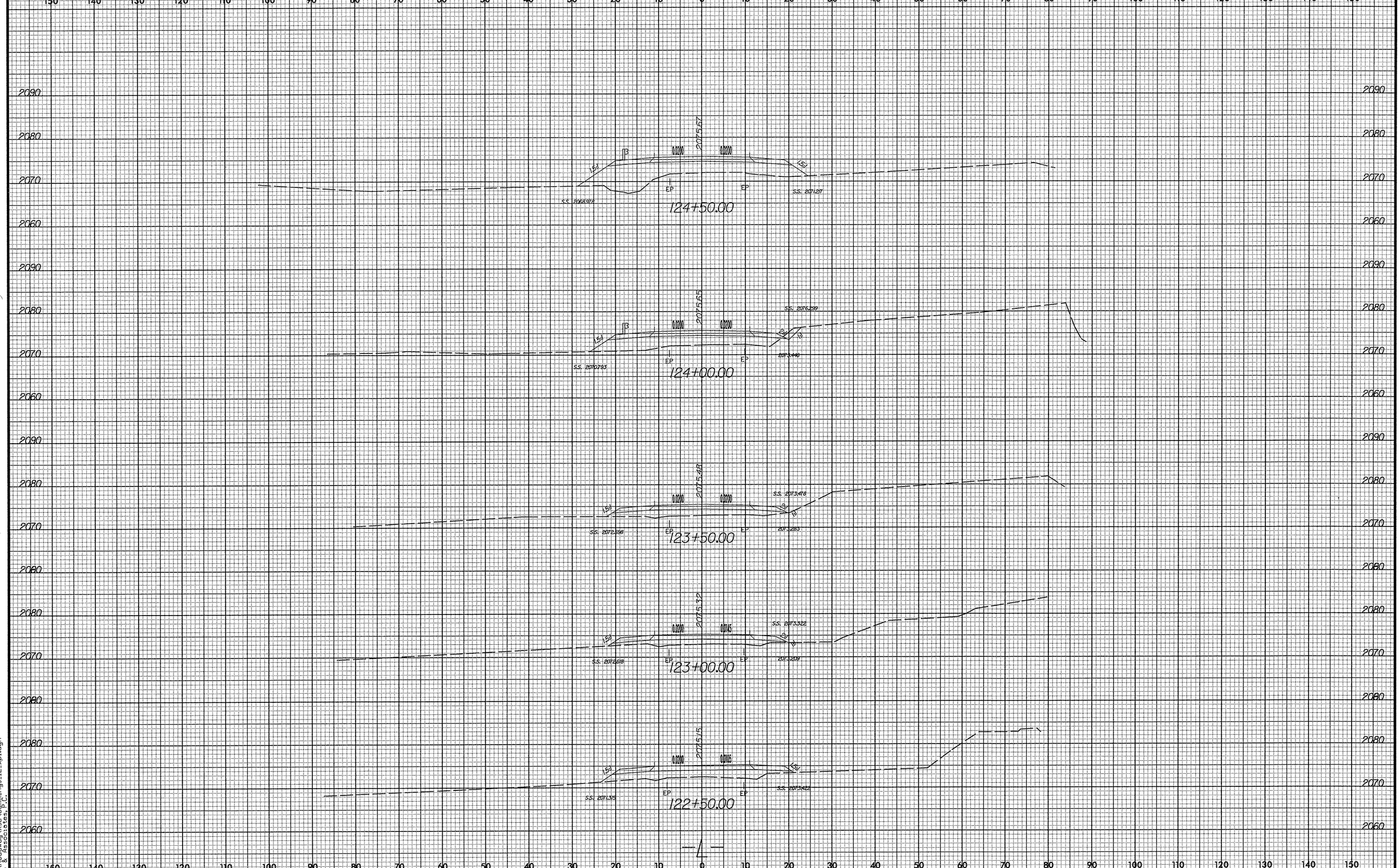

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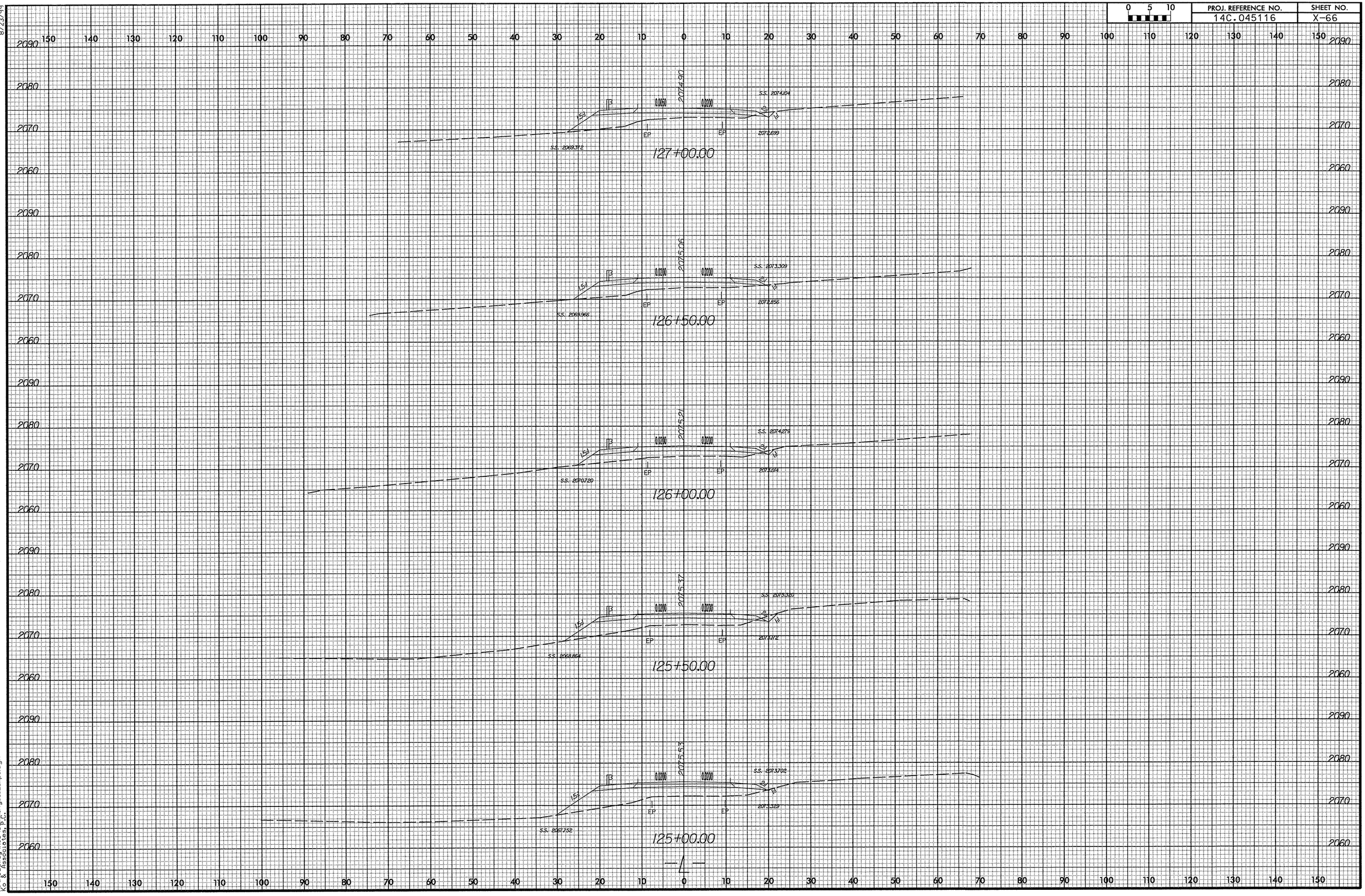

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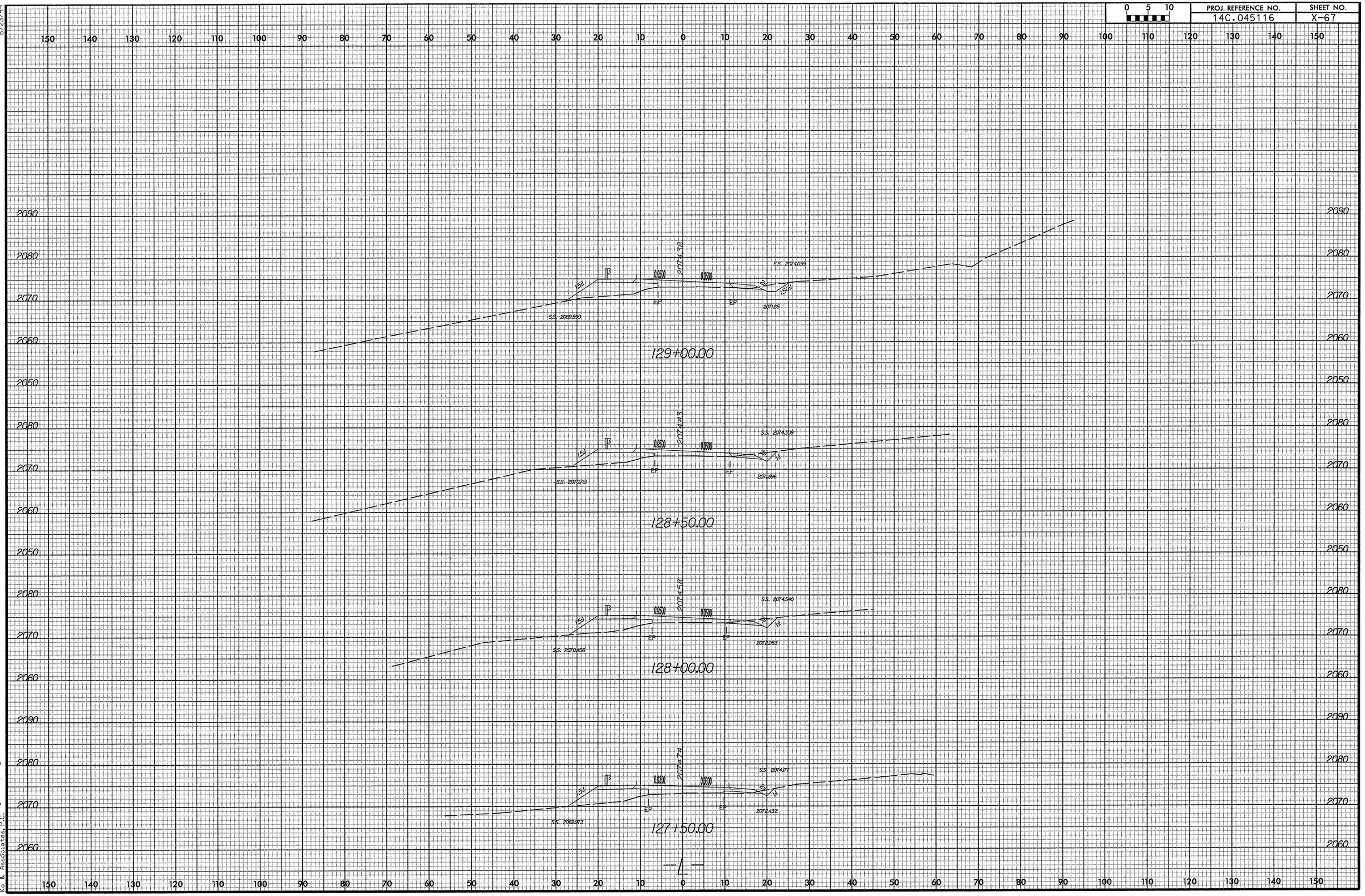

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Kc & Associates, P.C.

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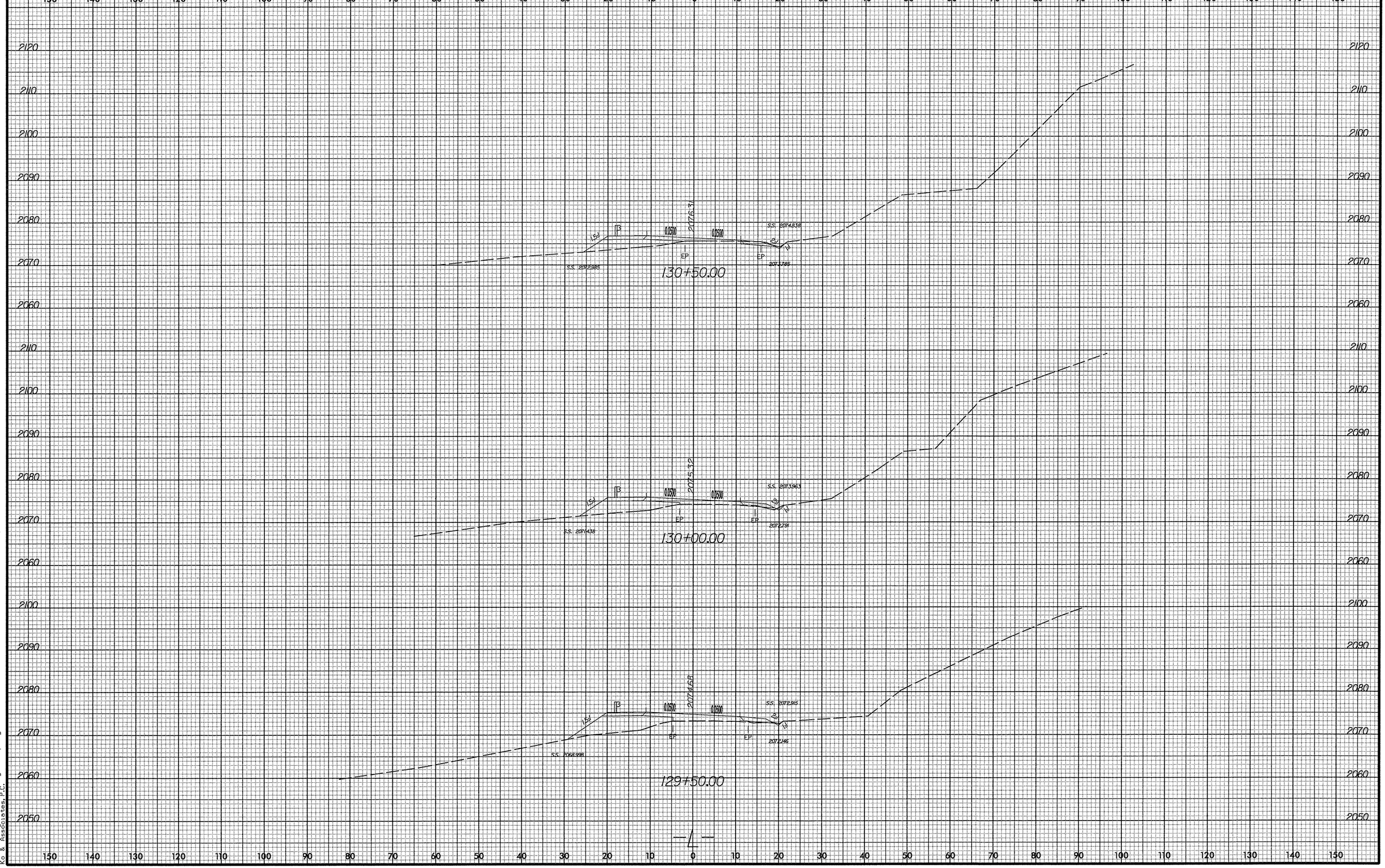

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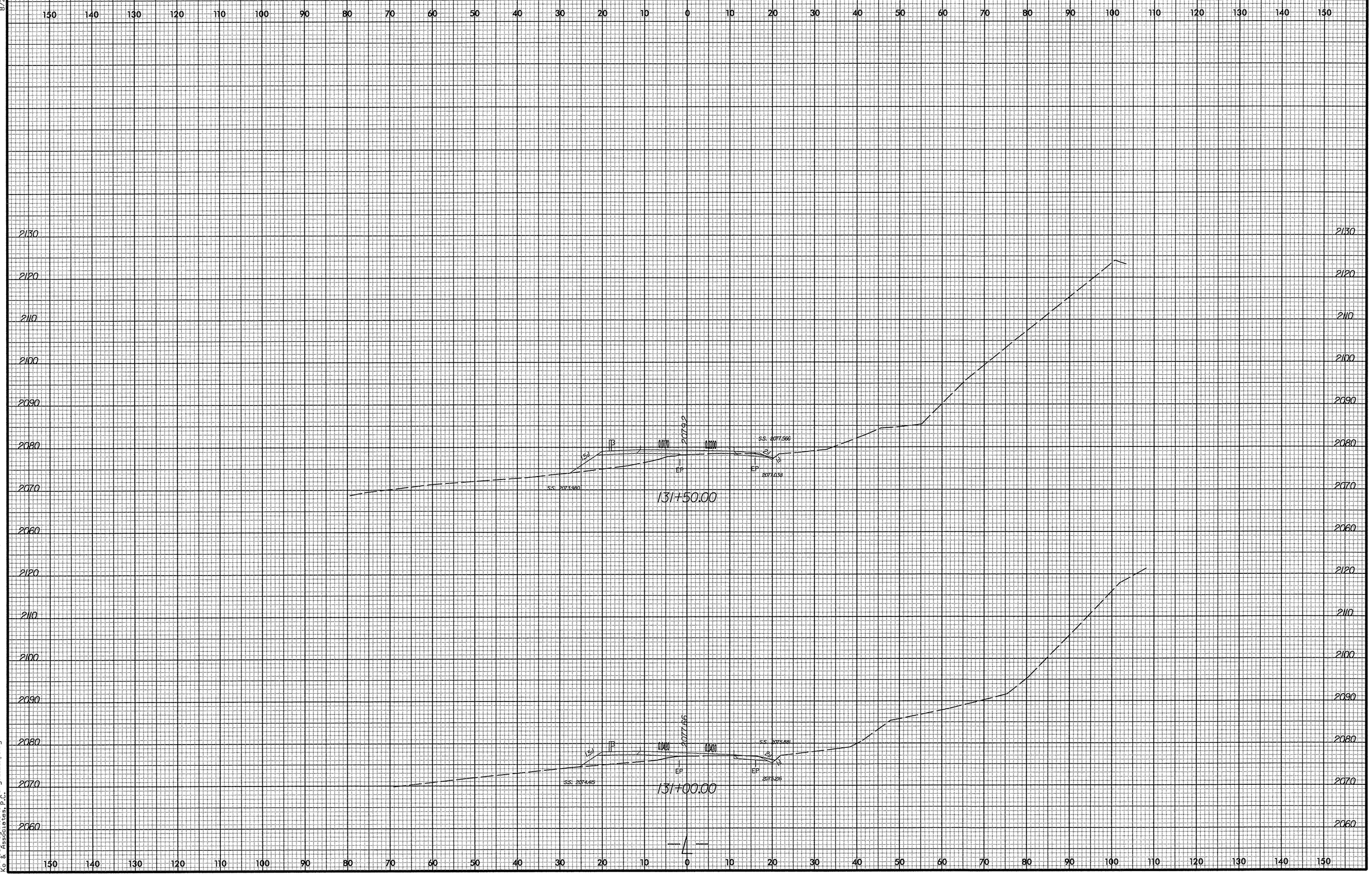

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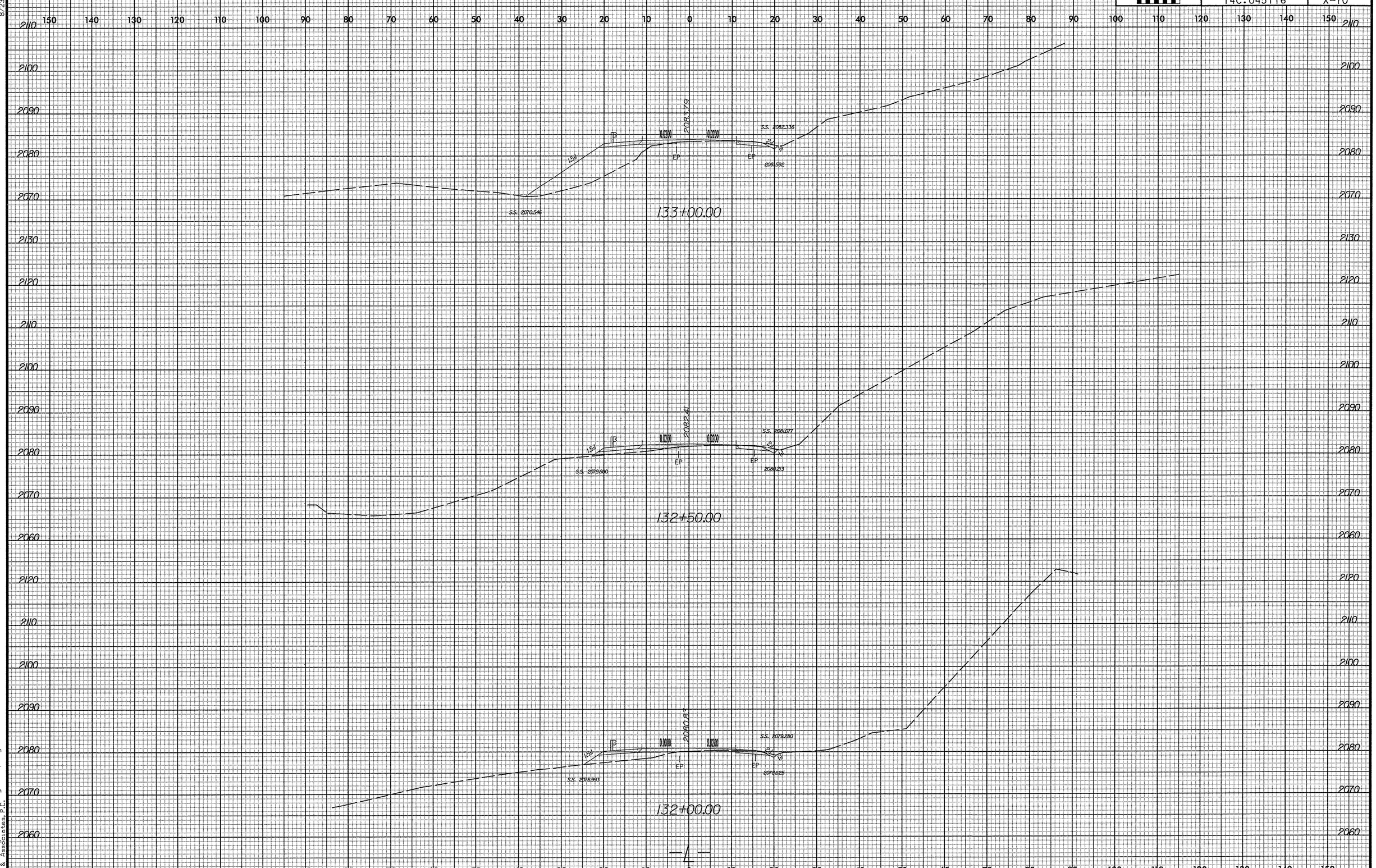

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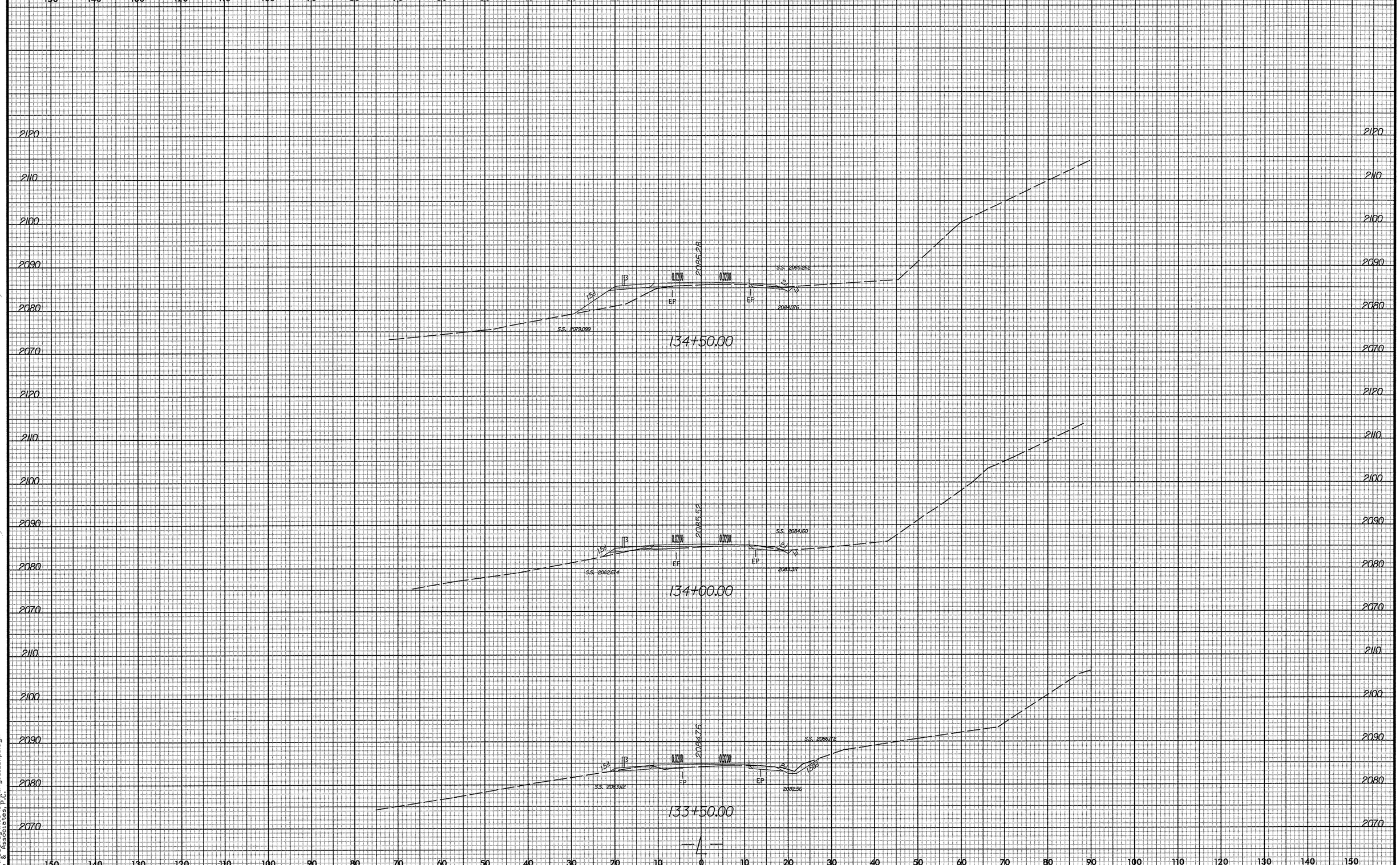

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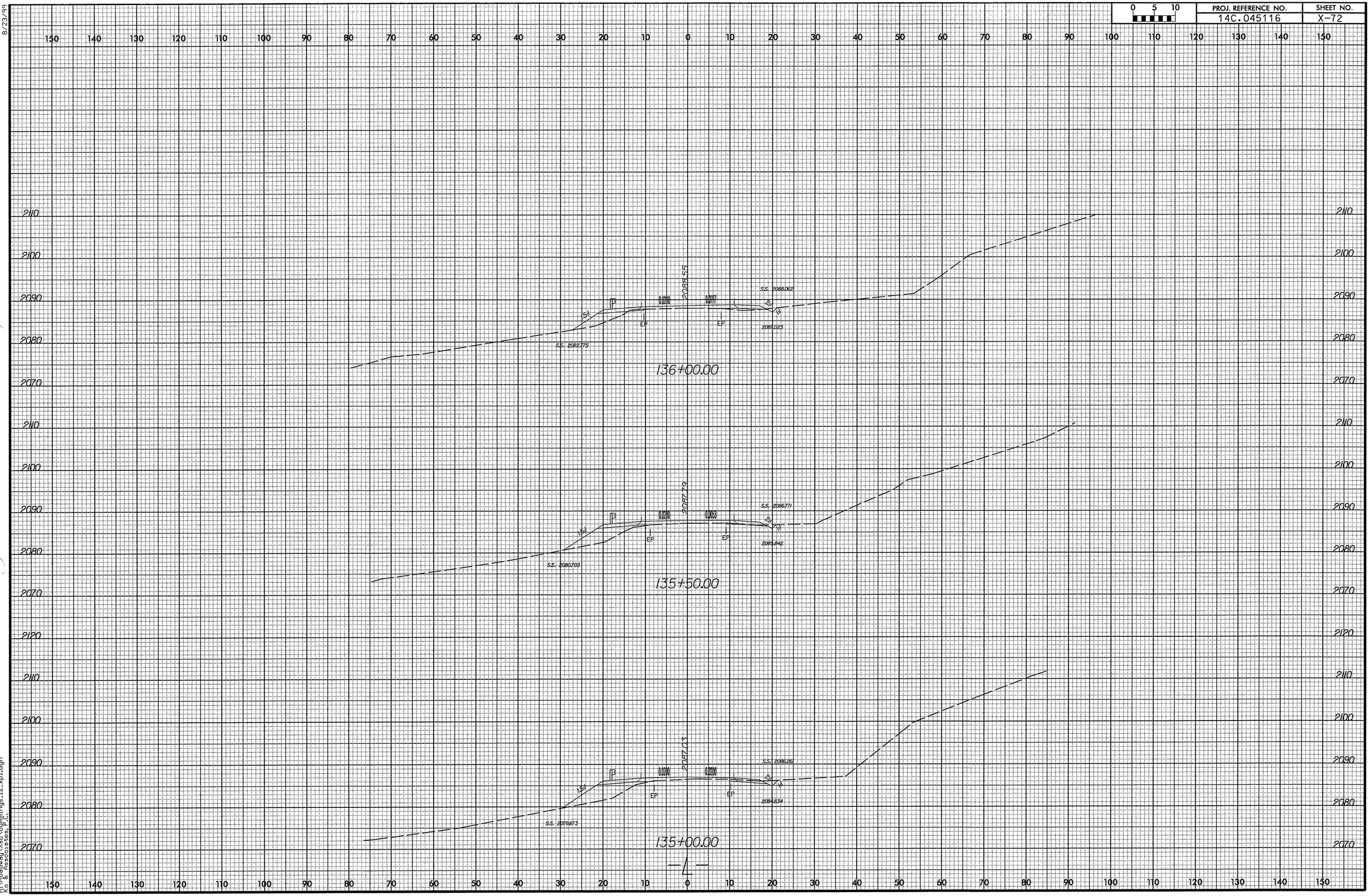

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Ko & Associates, P.C.

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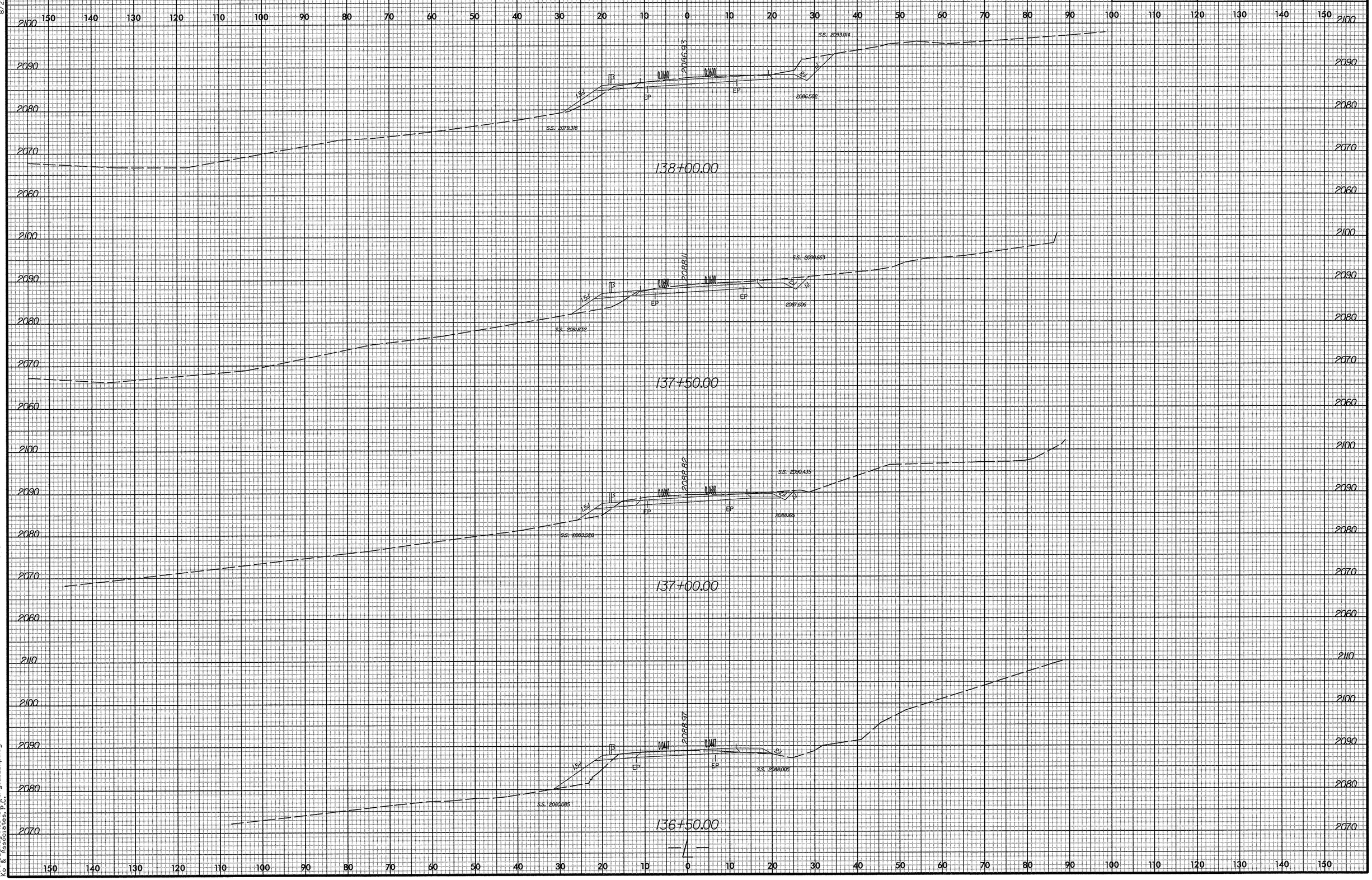

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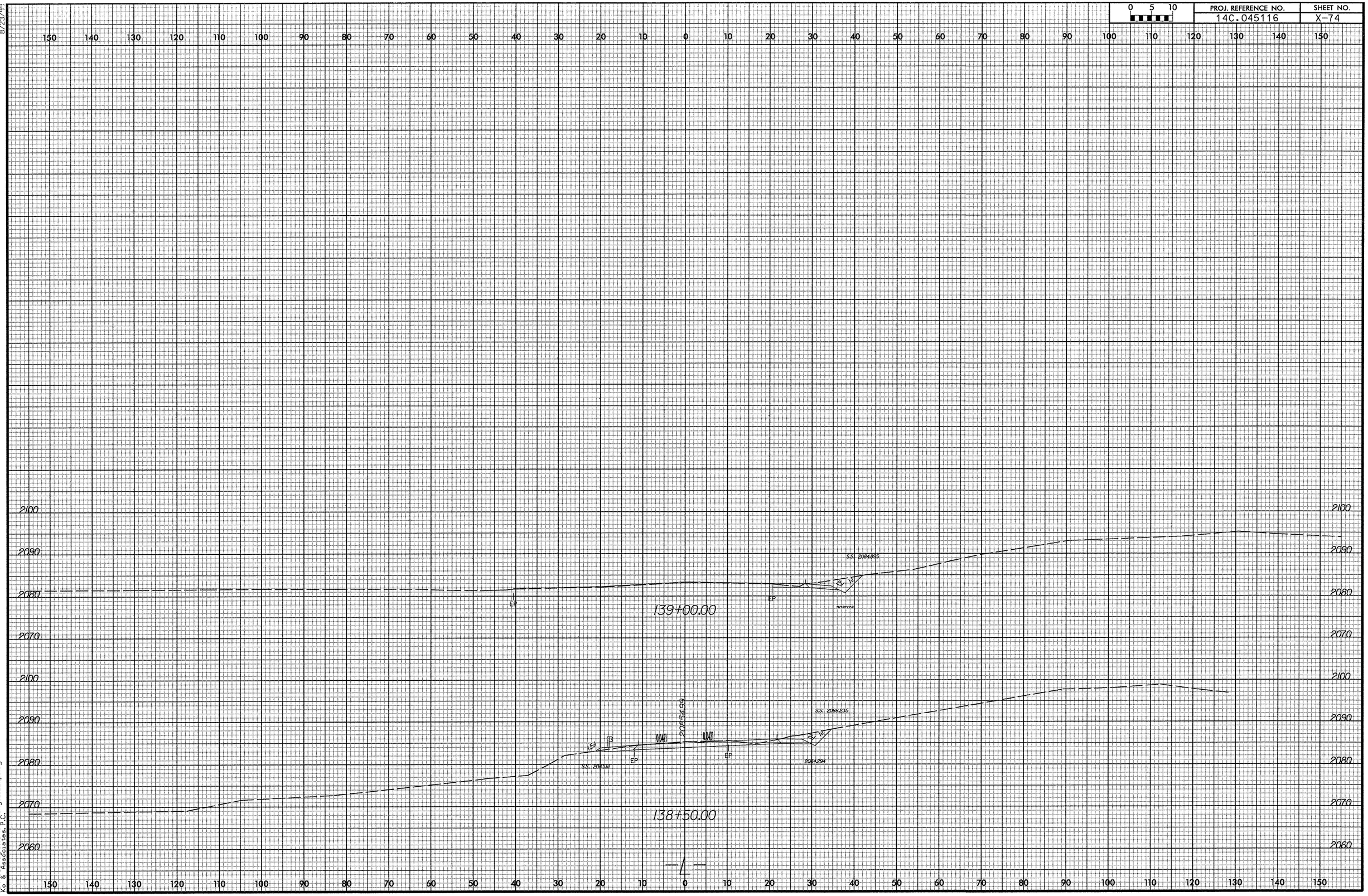

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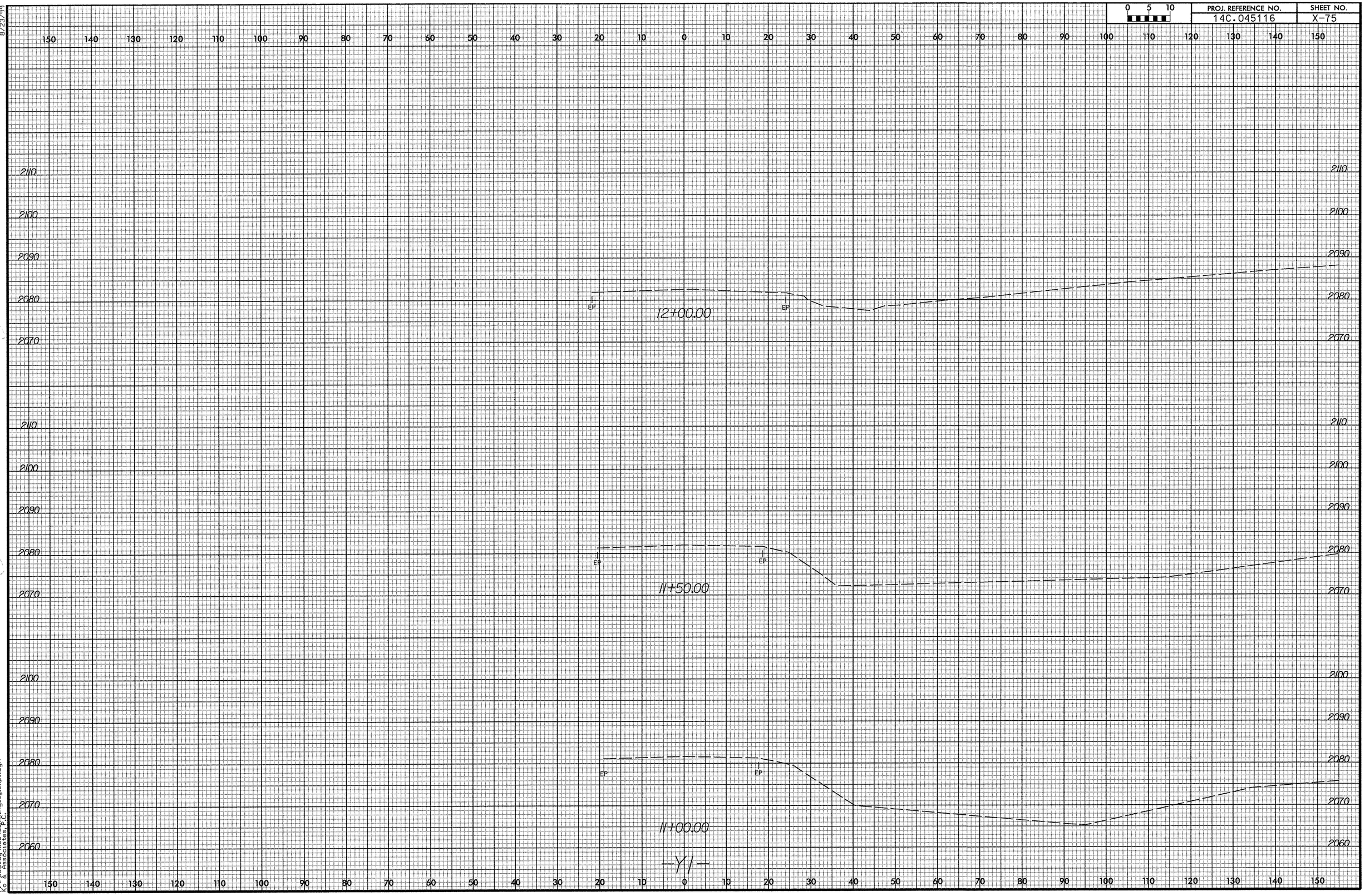

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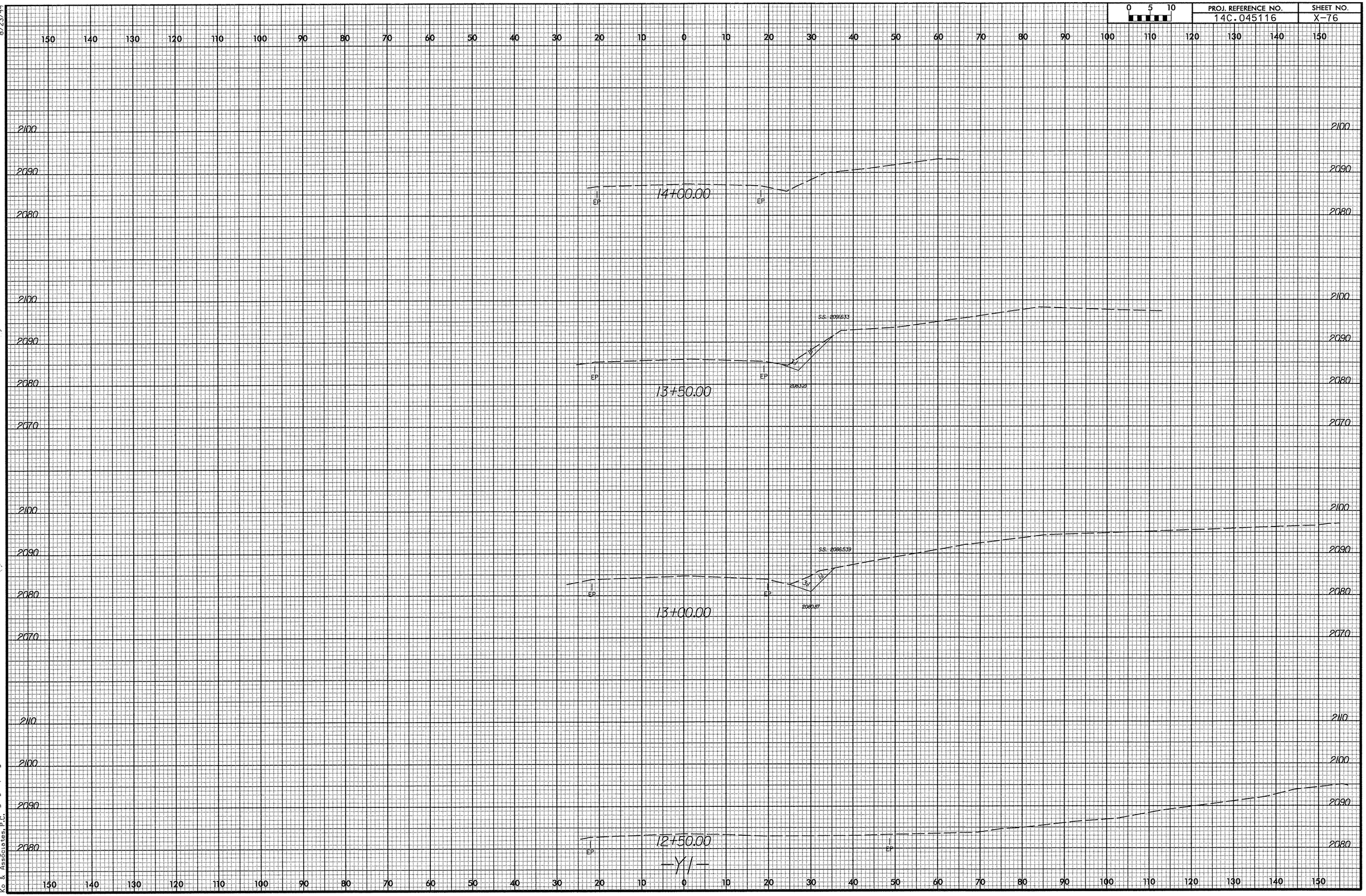

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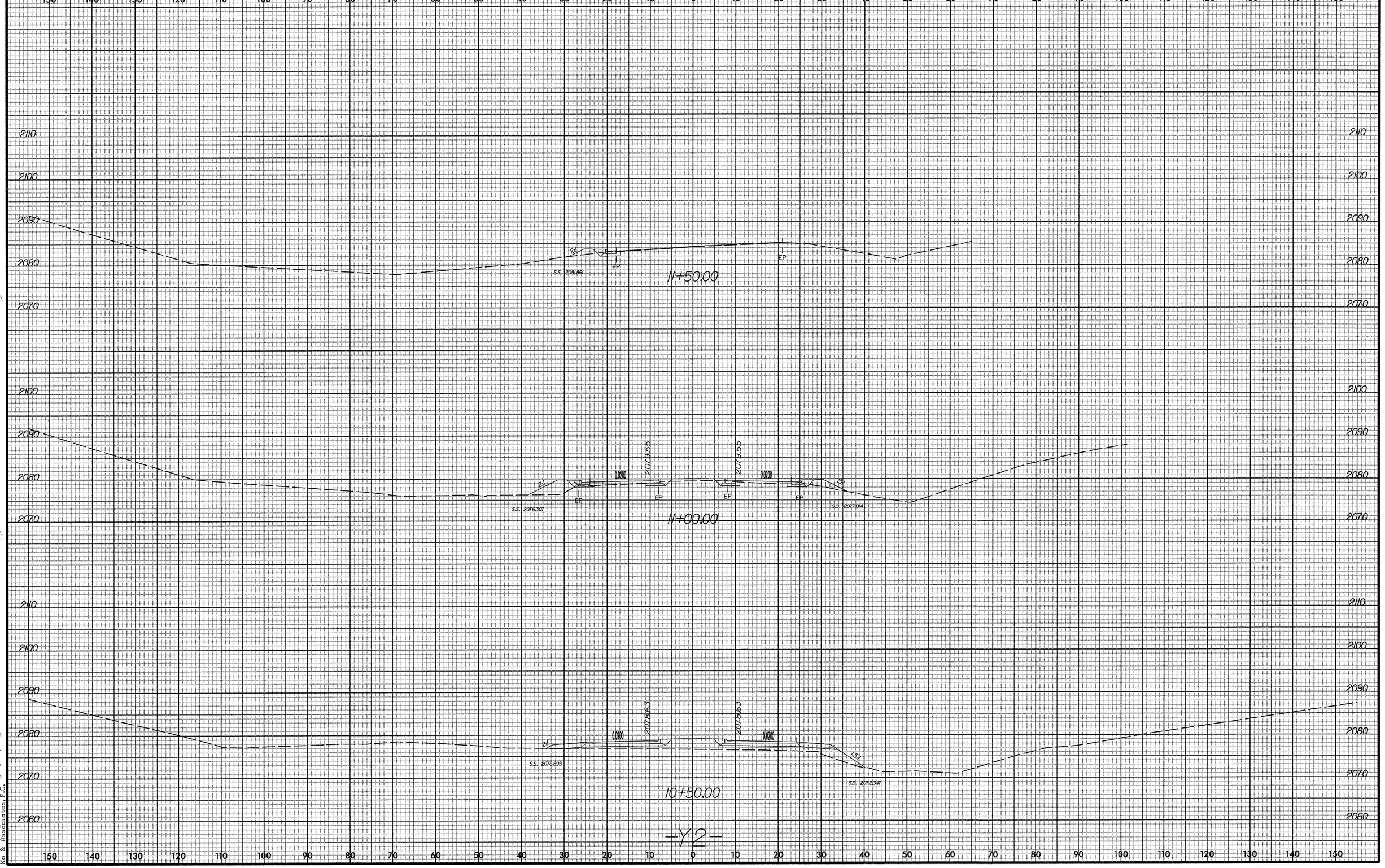

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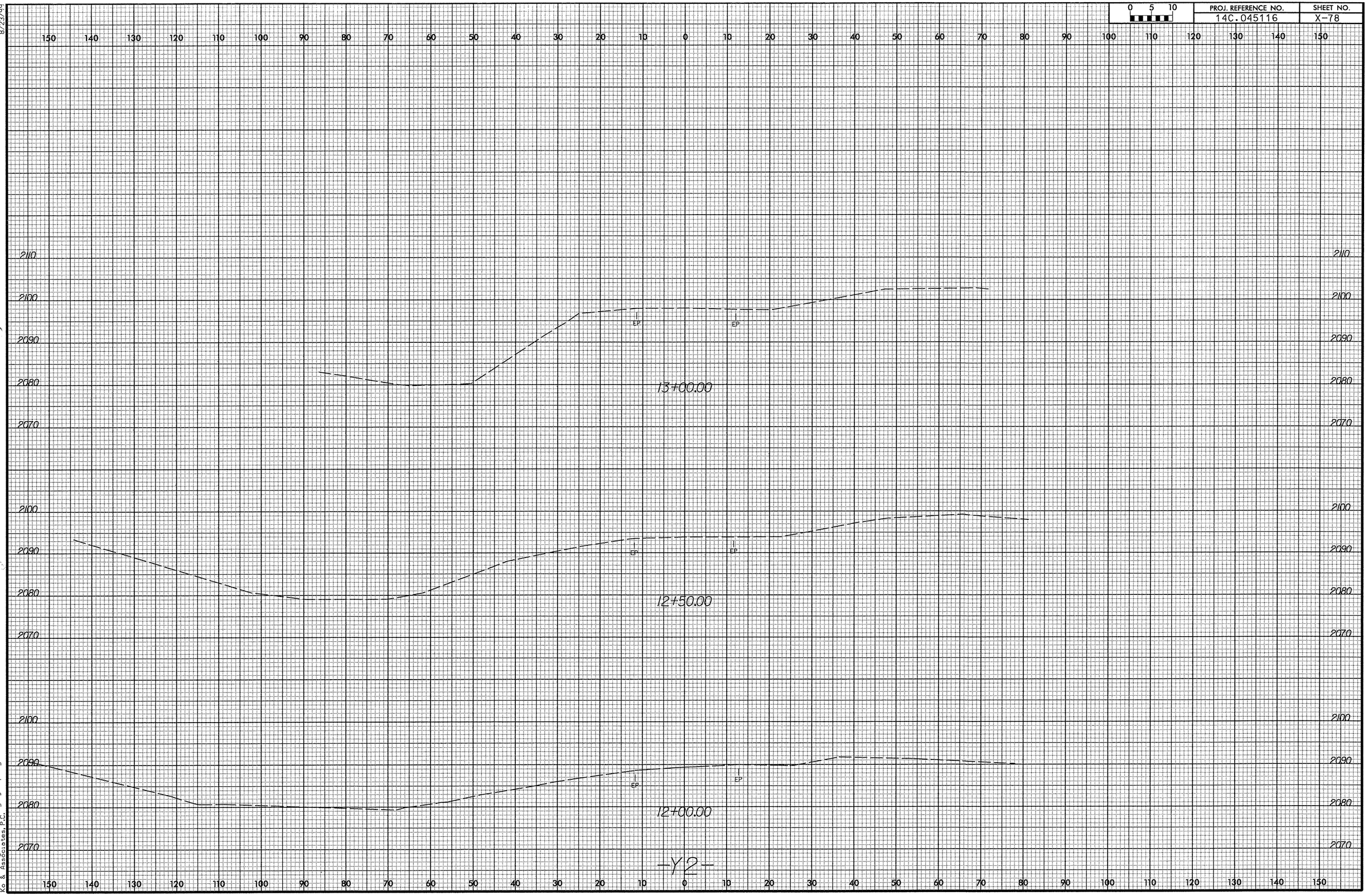
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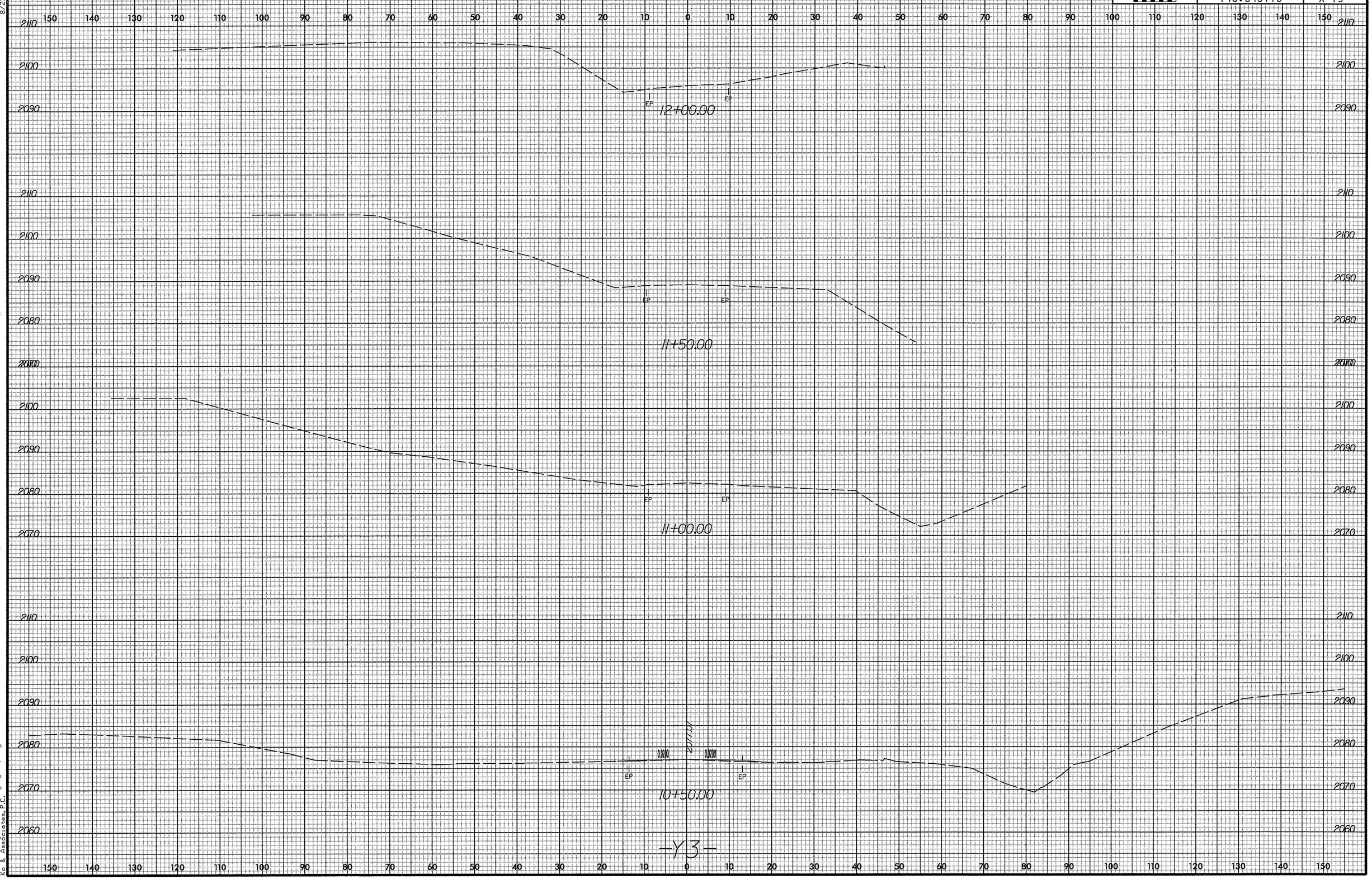

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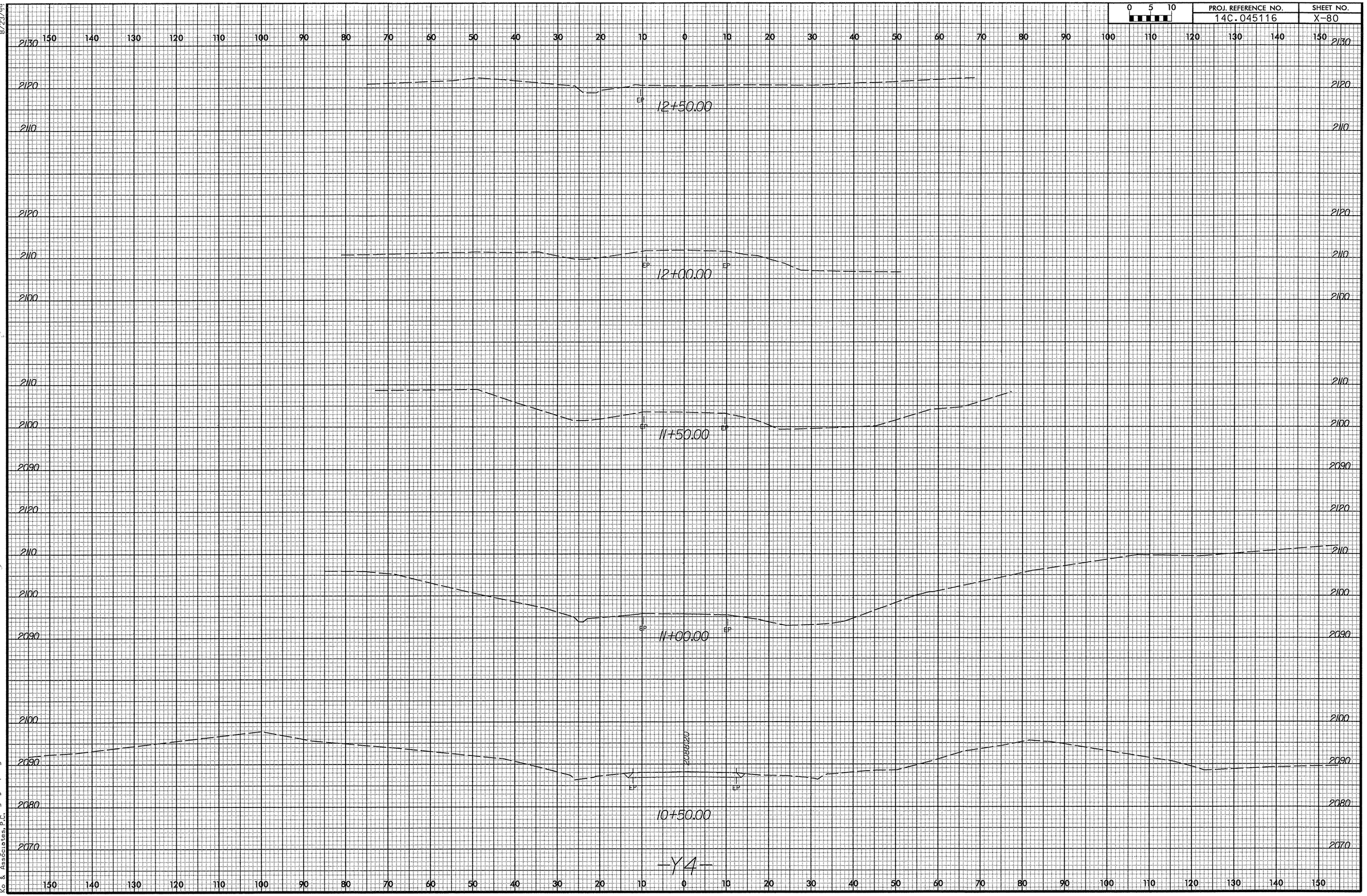

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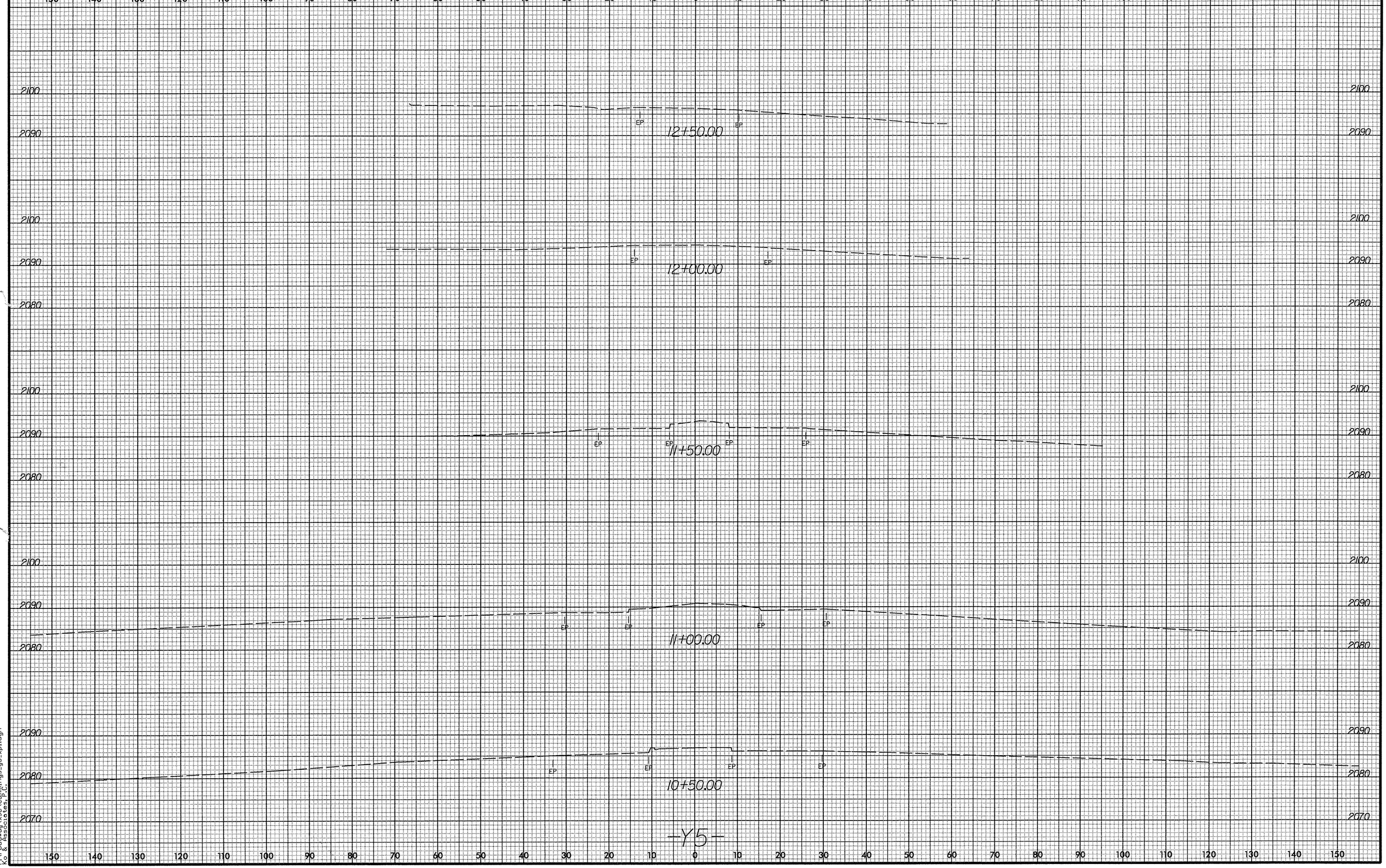

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