

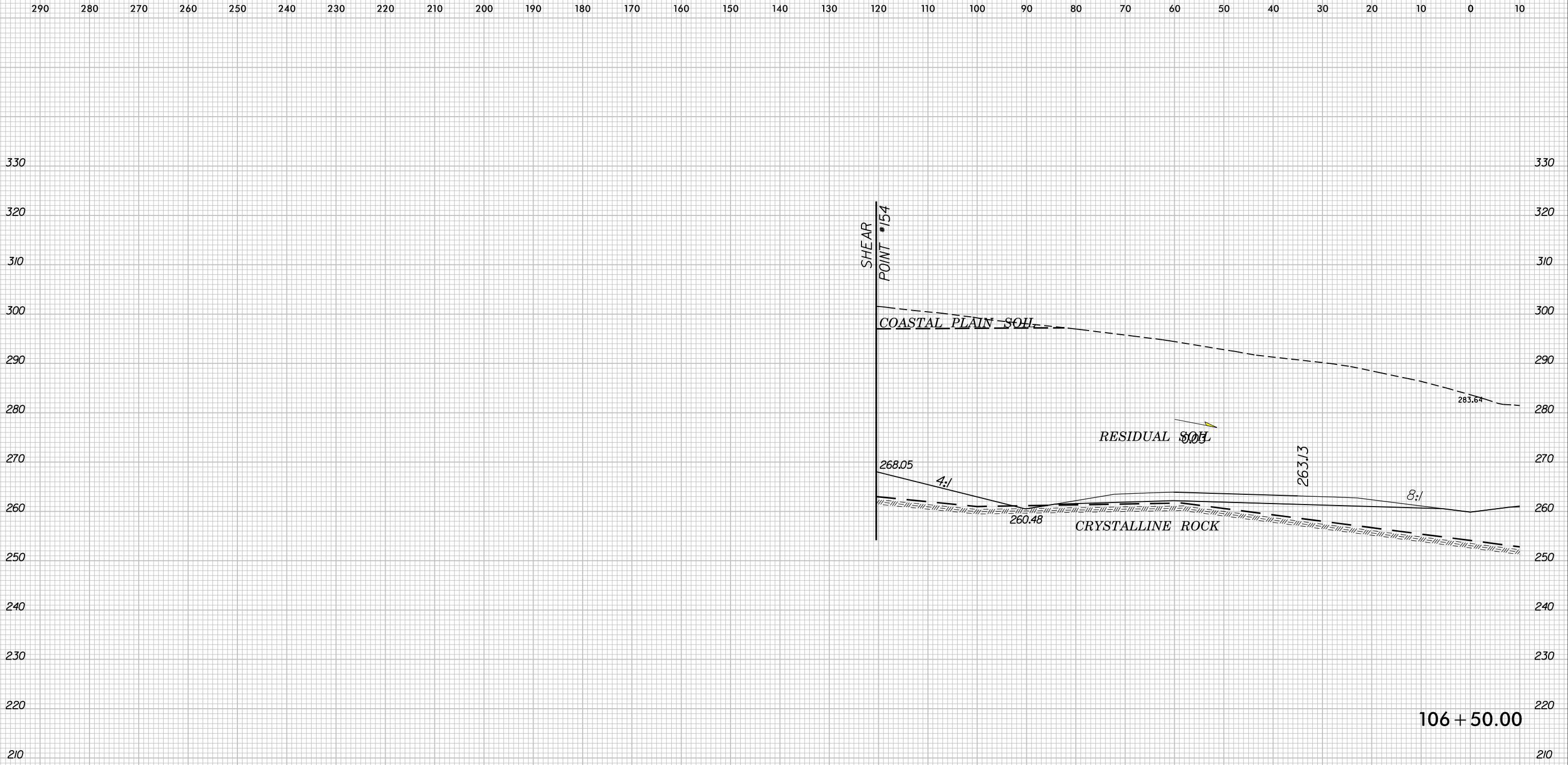
R-3421A

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
GEOTECHNICAL ENGINEERING UNIT
SUBSURFACE INVESTIGATION
INVENTORY
SECTION 3

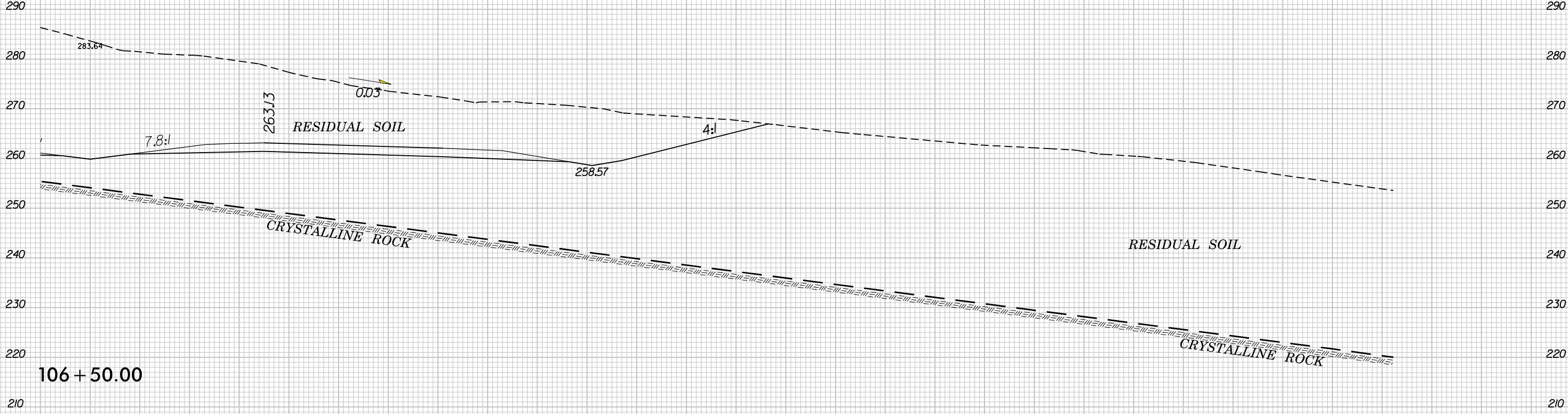
REFERENCE: R-3421A

PROJECT: 34542

DS
ELH
INITIALS
1/8/2016
DATE



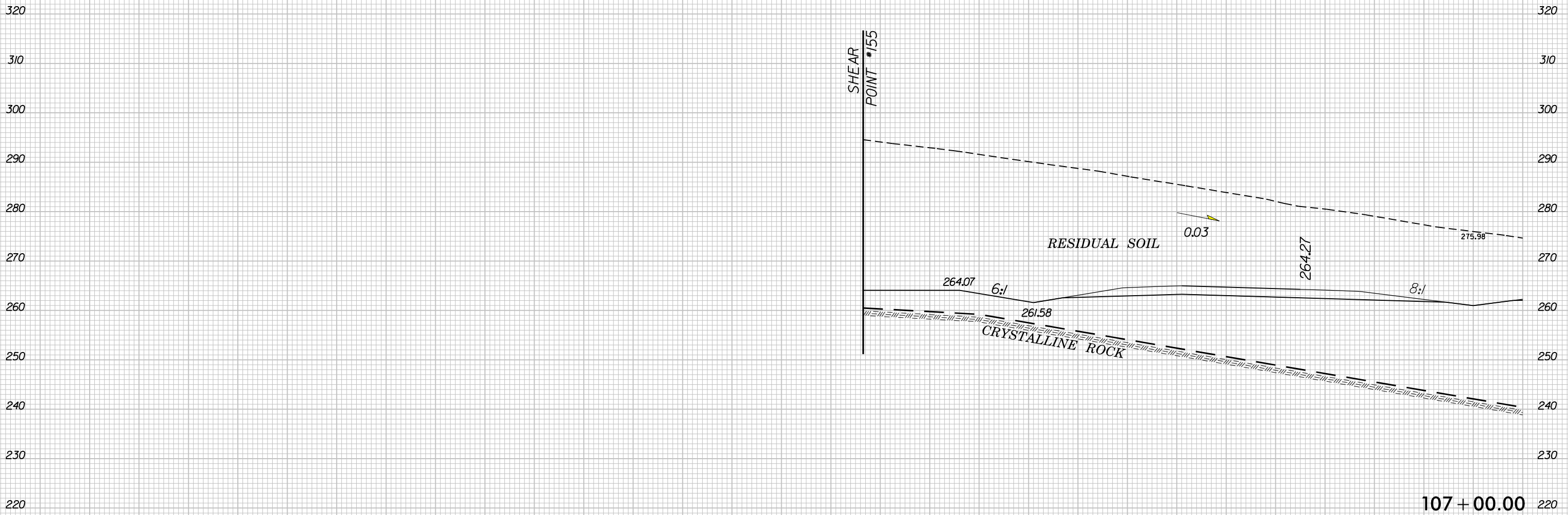
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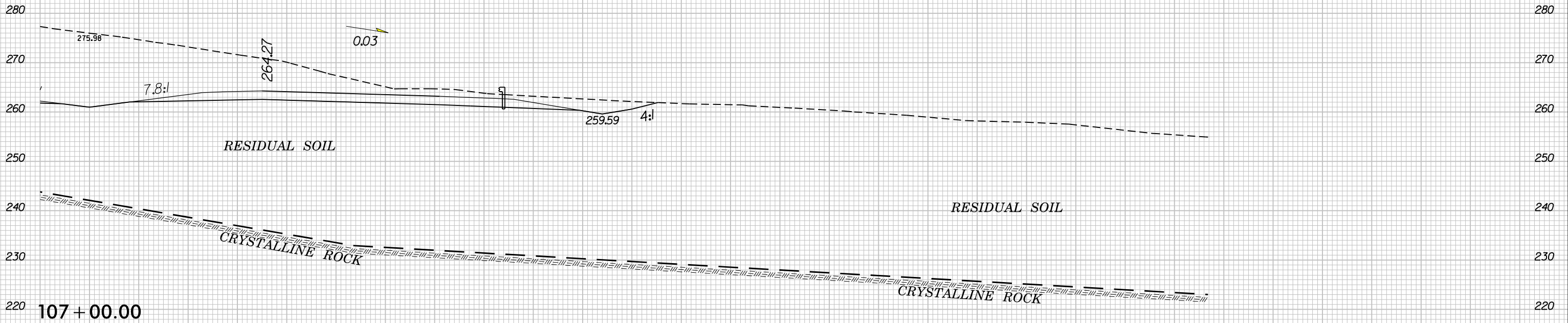


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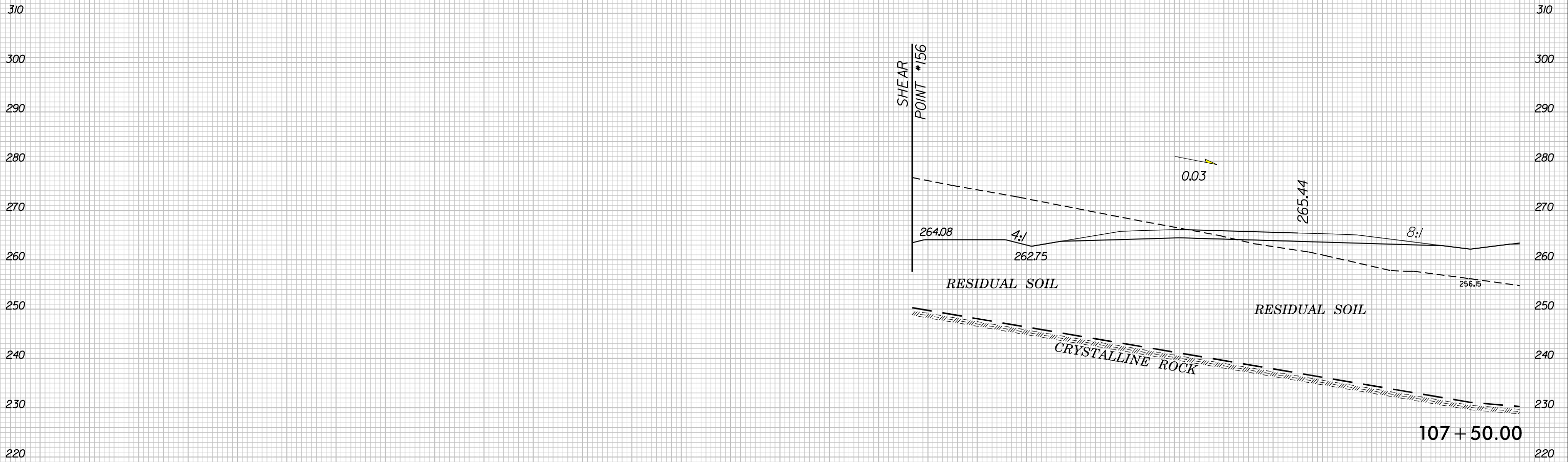


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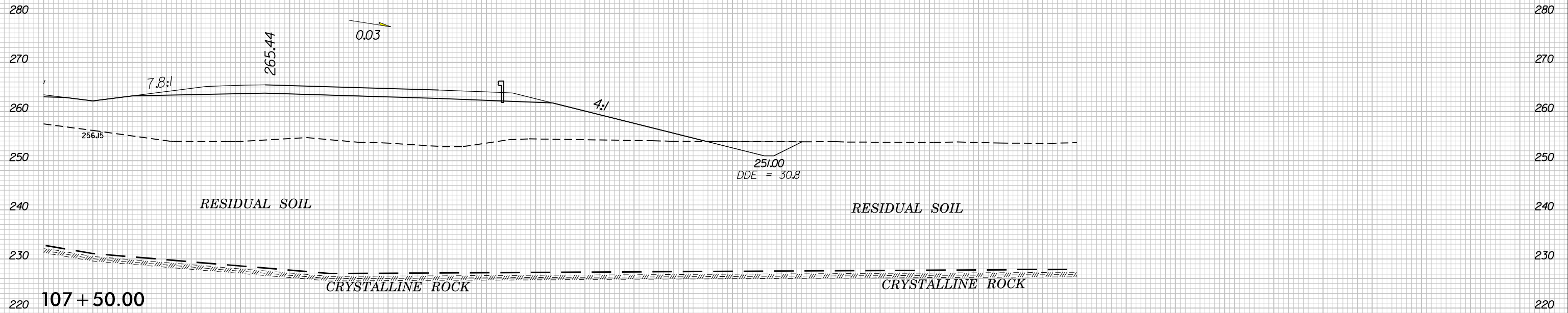
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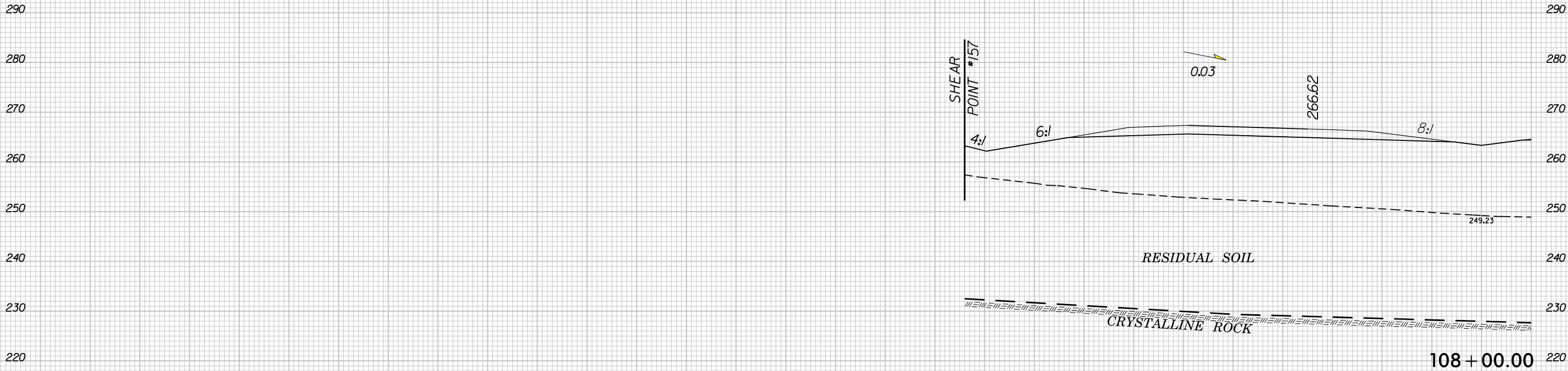


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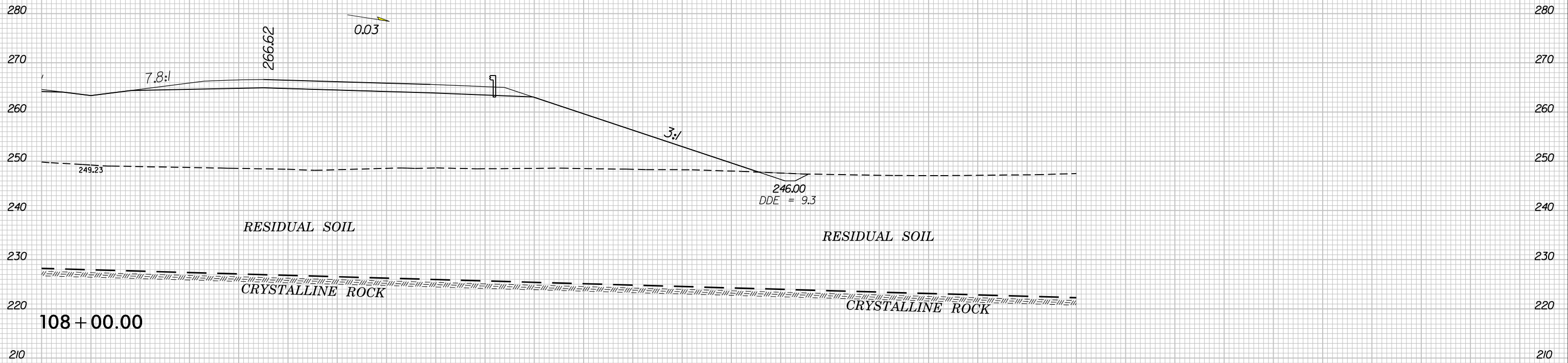


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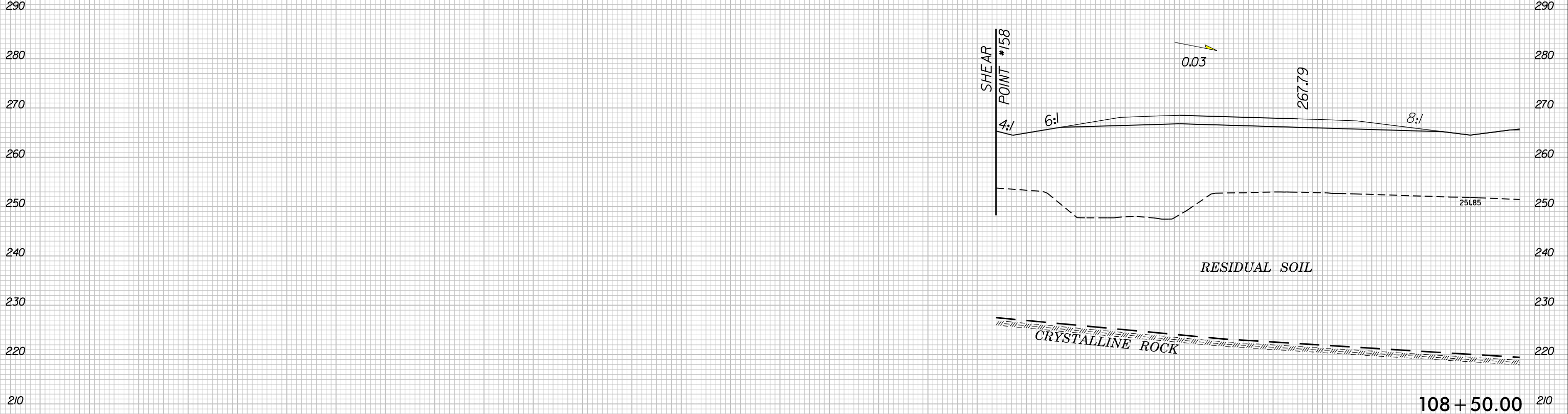
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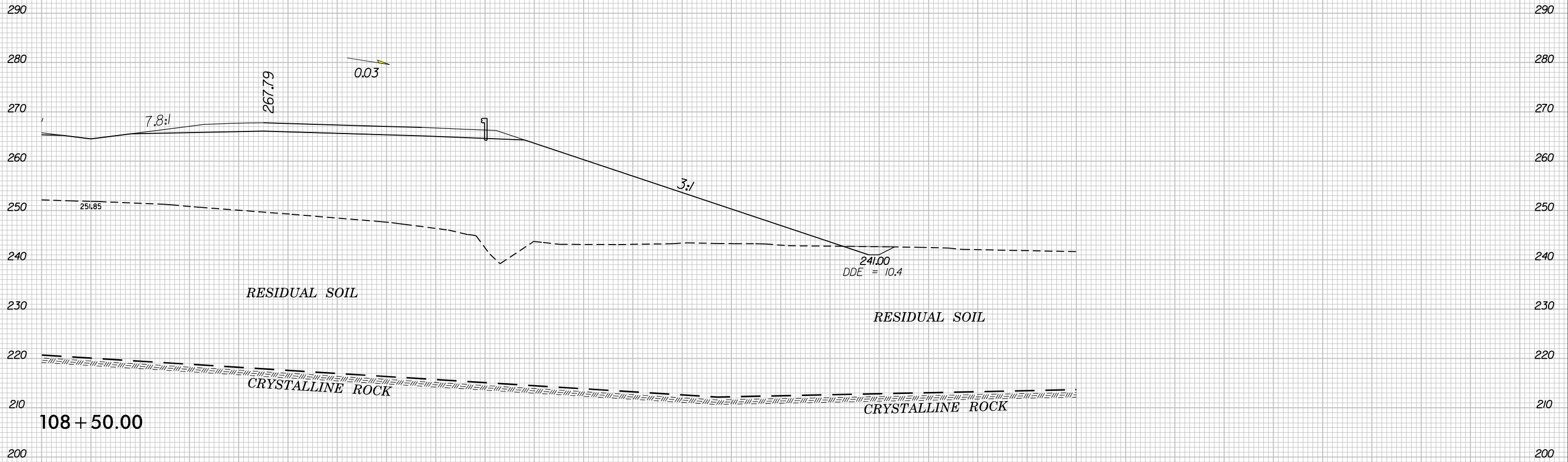


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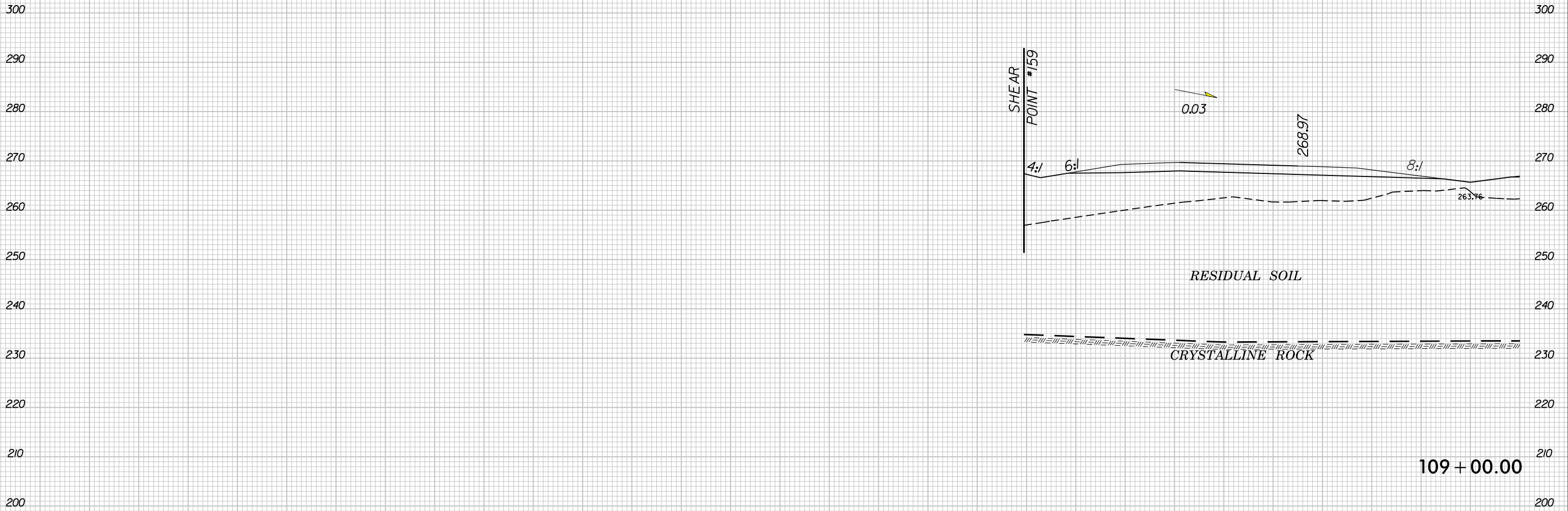
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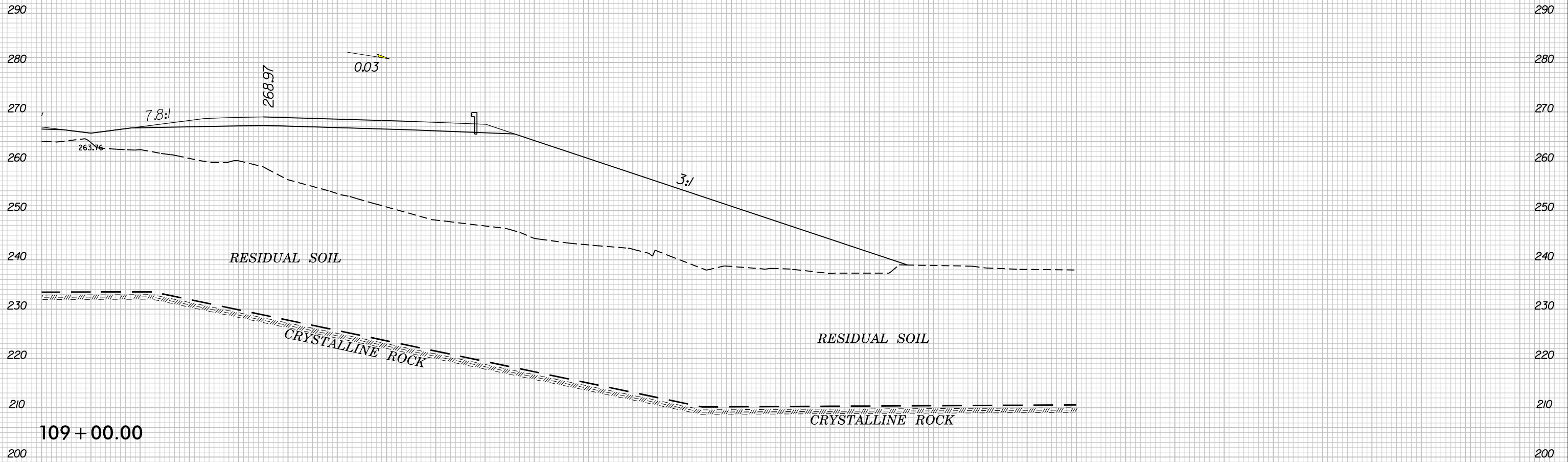
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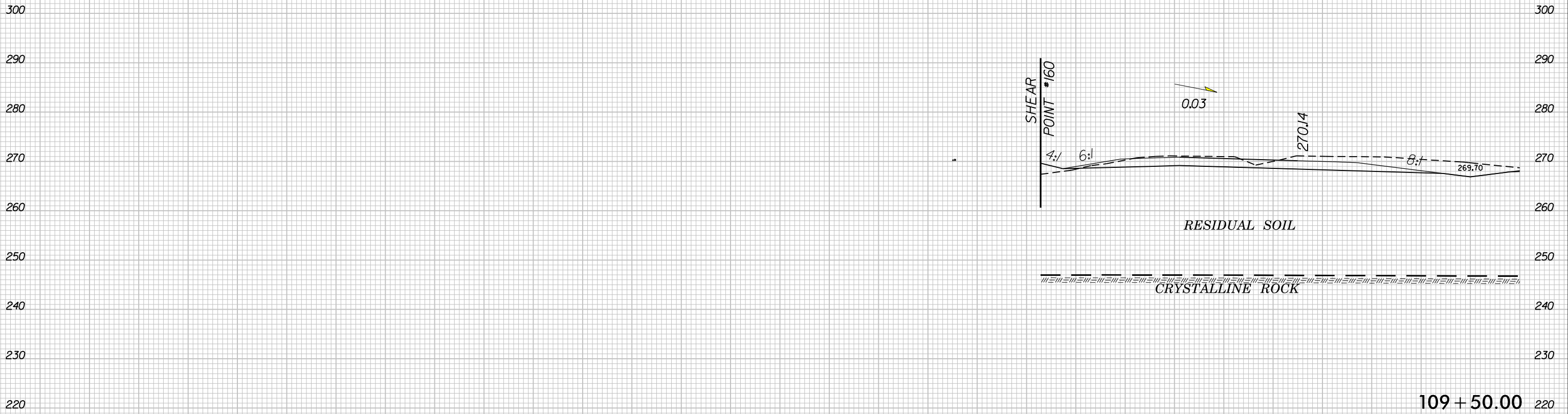
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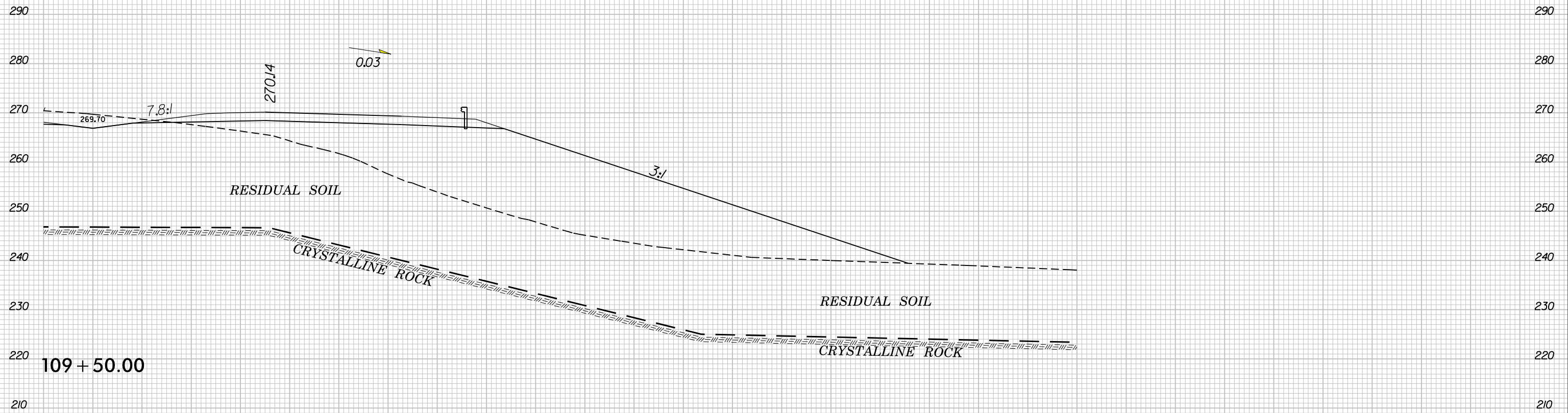


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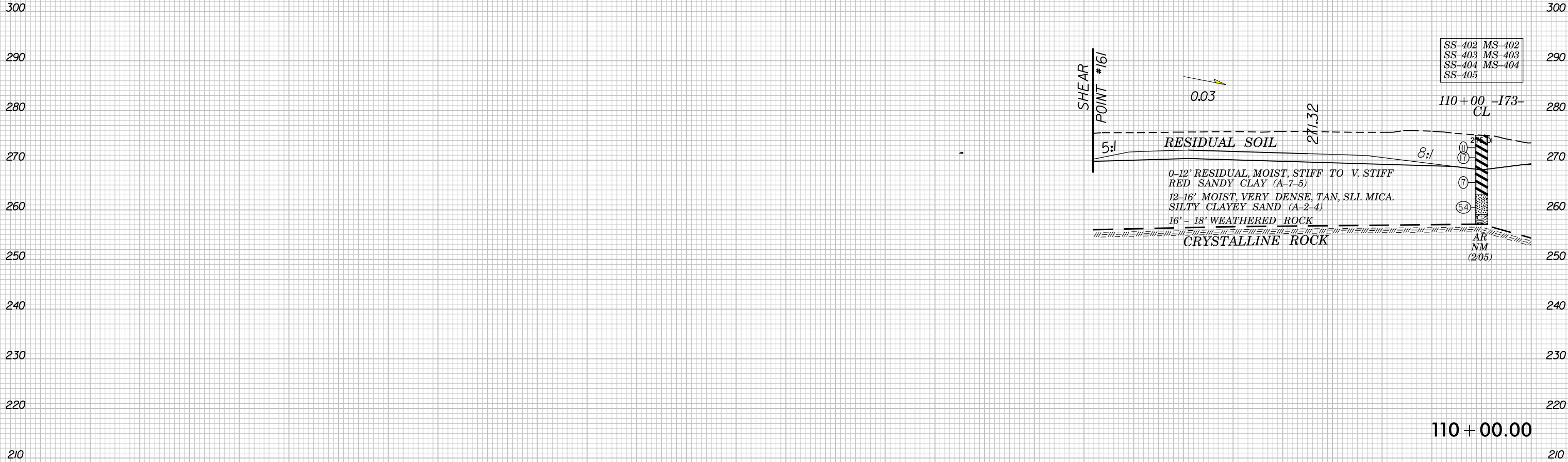
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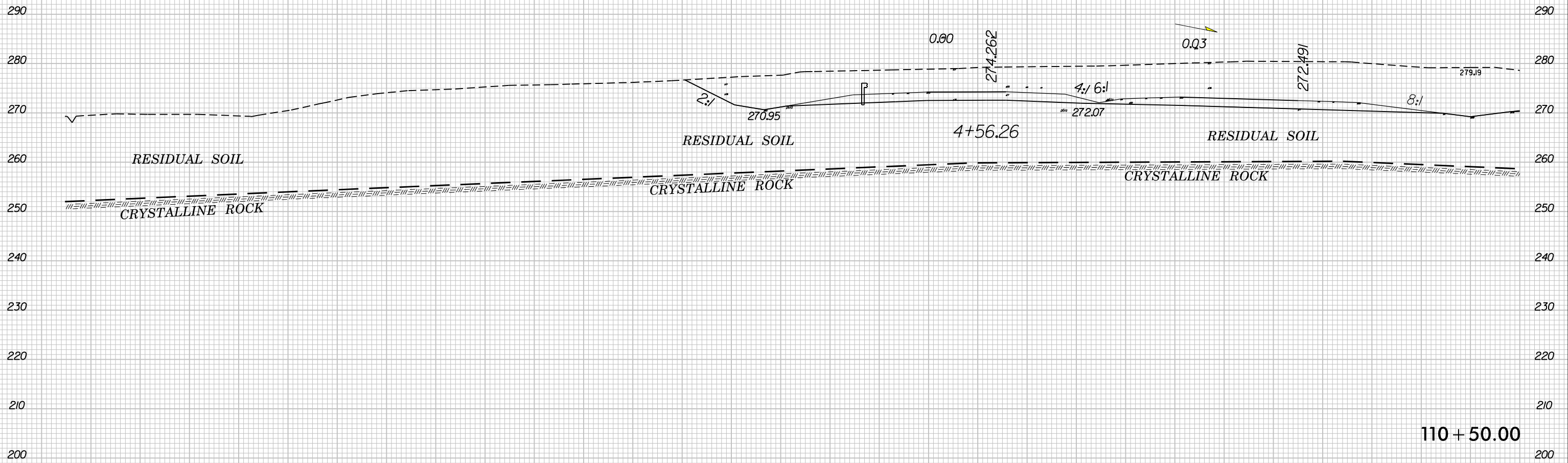
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SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-402	CL	110+00	1.50-3.00	A-7-5(33)	73	29	4.4	10.9	18.0	66.7	100	98	87	34.9	-
SS-403	CL	110+00	3.50-5.00	A-7-5(30)	73	28	5.5	14.3	29.7	50.5	100	98	83	30.2	-
SS-404	CL	110+00	8.50-10.00	A-7-5(16)	60	15	3.8	25.3	44.6	26.3	100	99	77	32.8	-
SS-405	CL	110+00	13.50-15.00	A-2-4(0)	36	NP	50.7	32.2	13.0	4.0	100	64	22	-	-



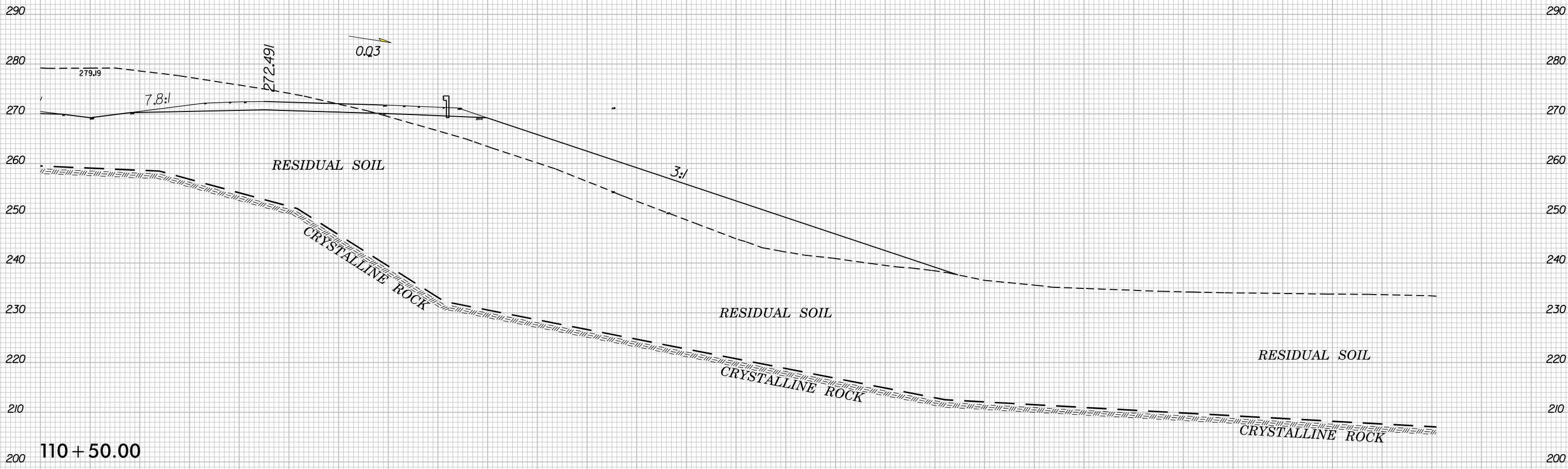
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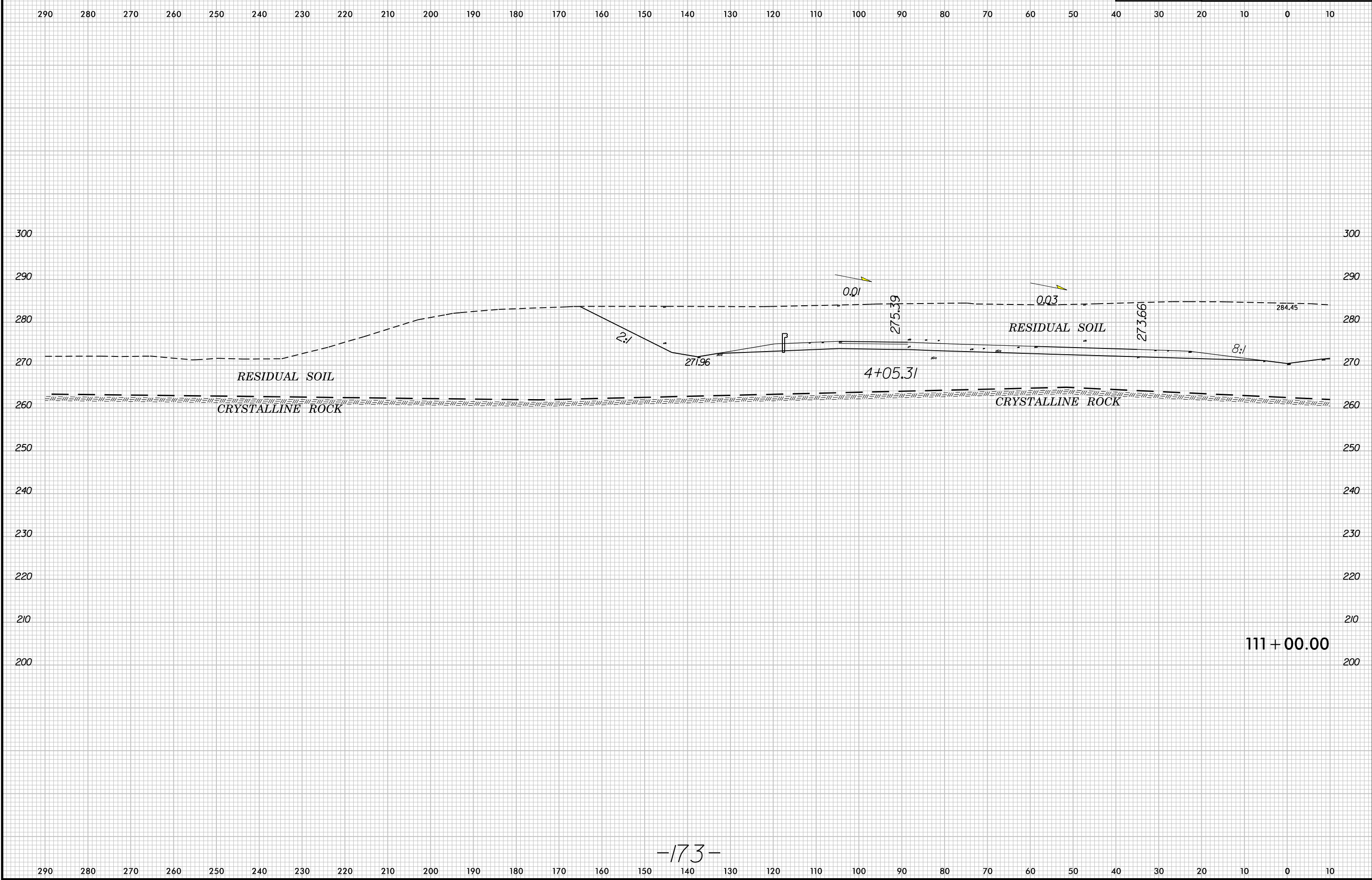


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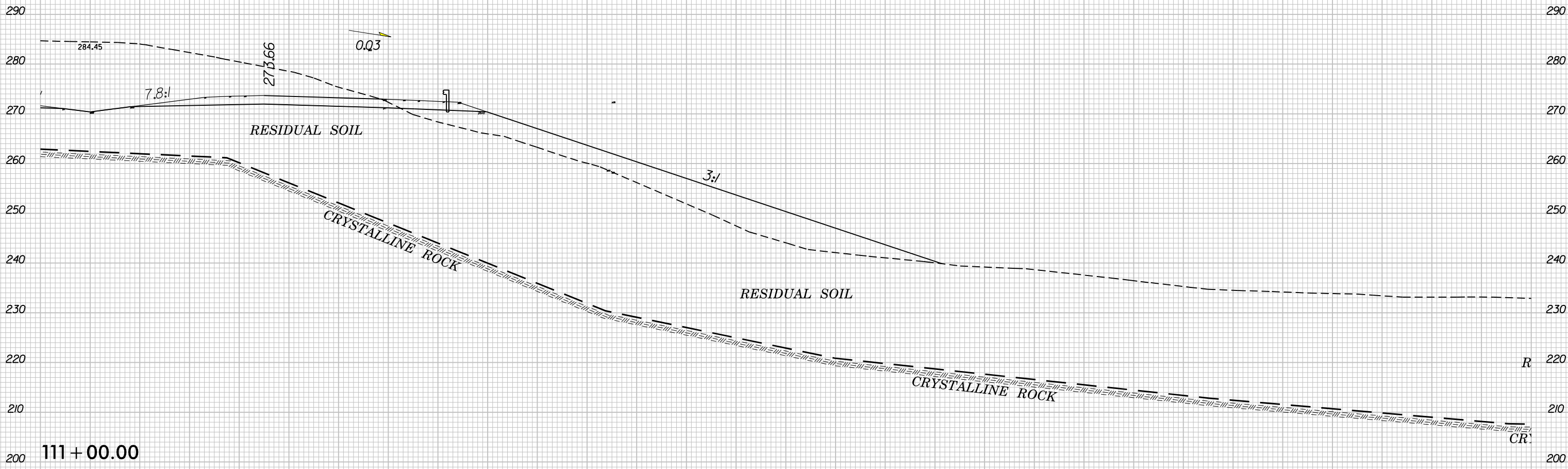


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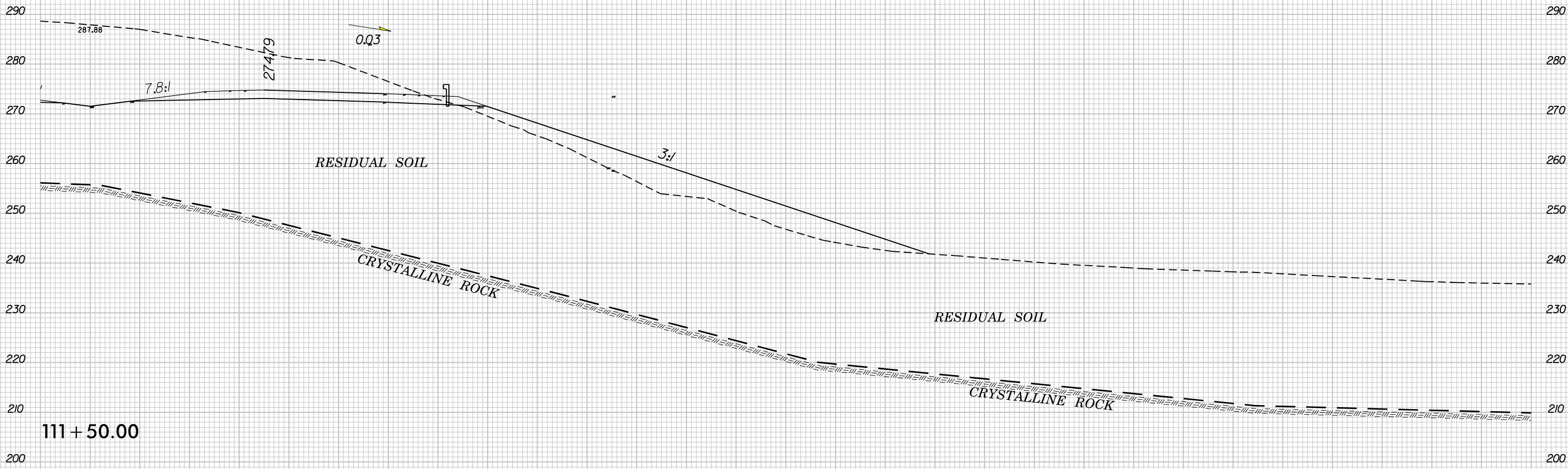
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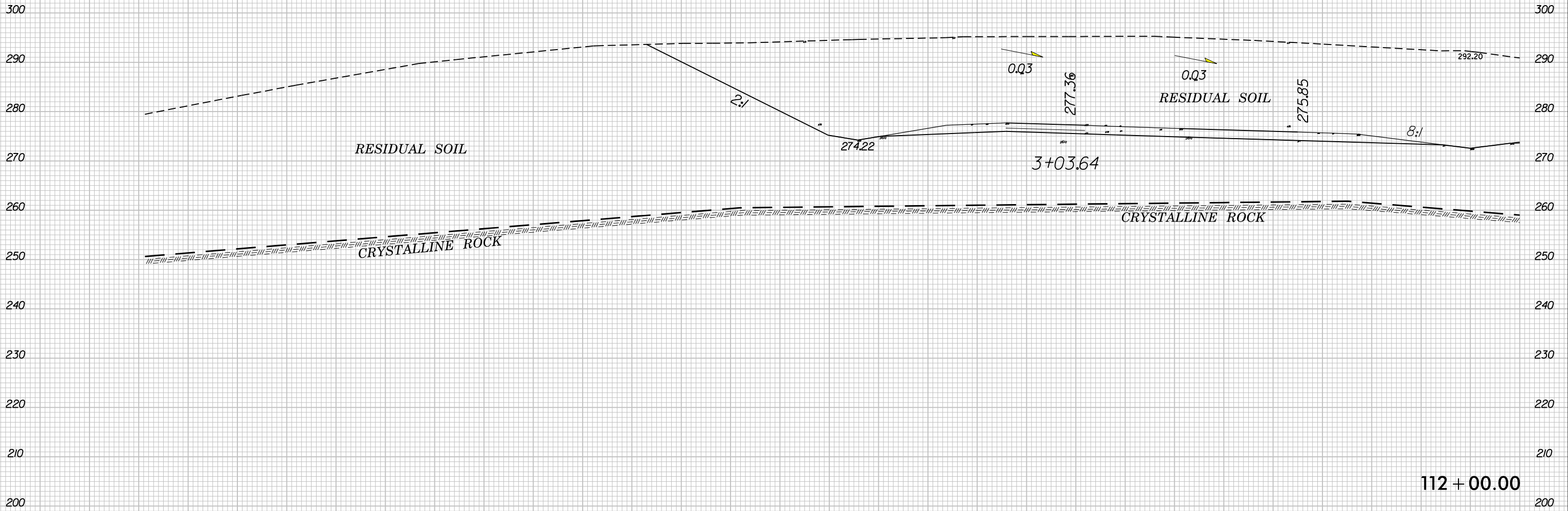
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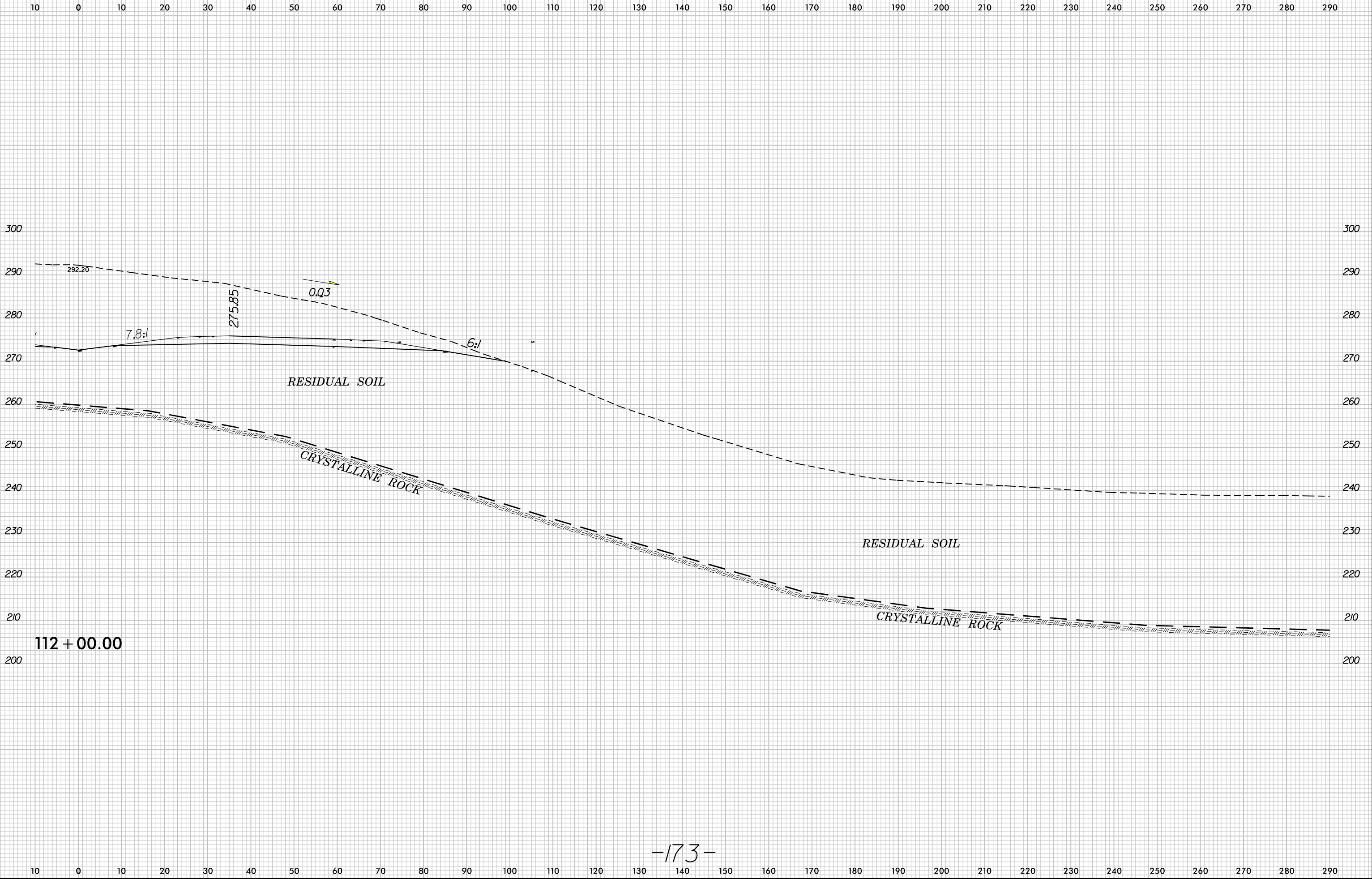
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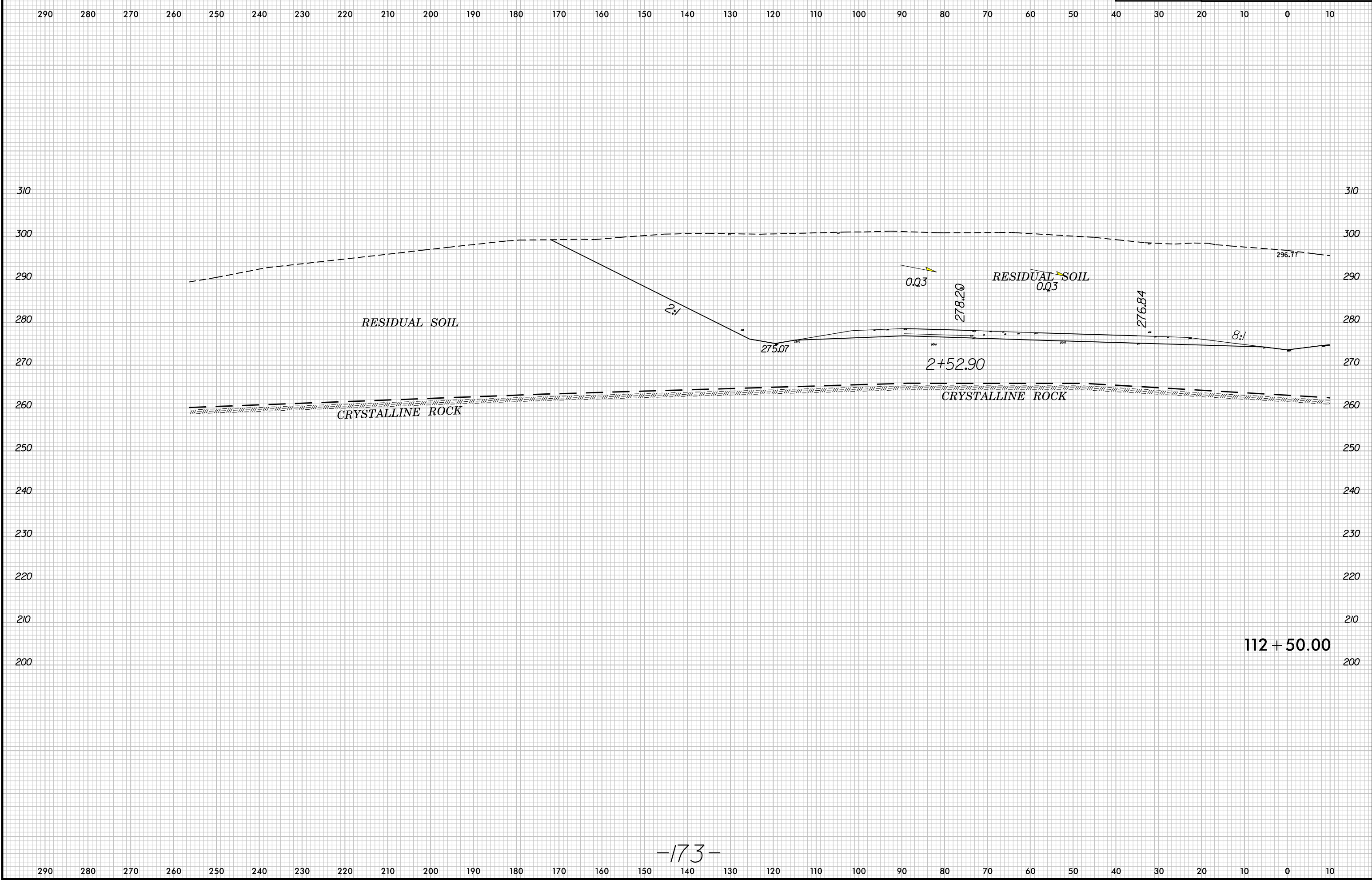
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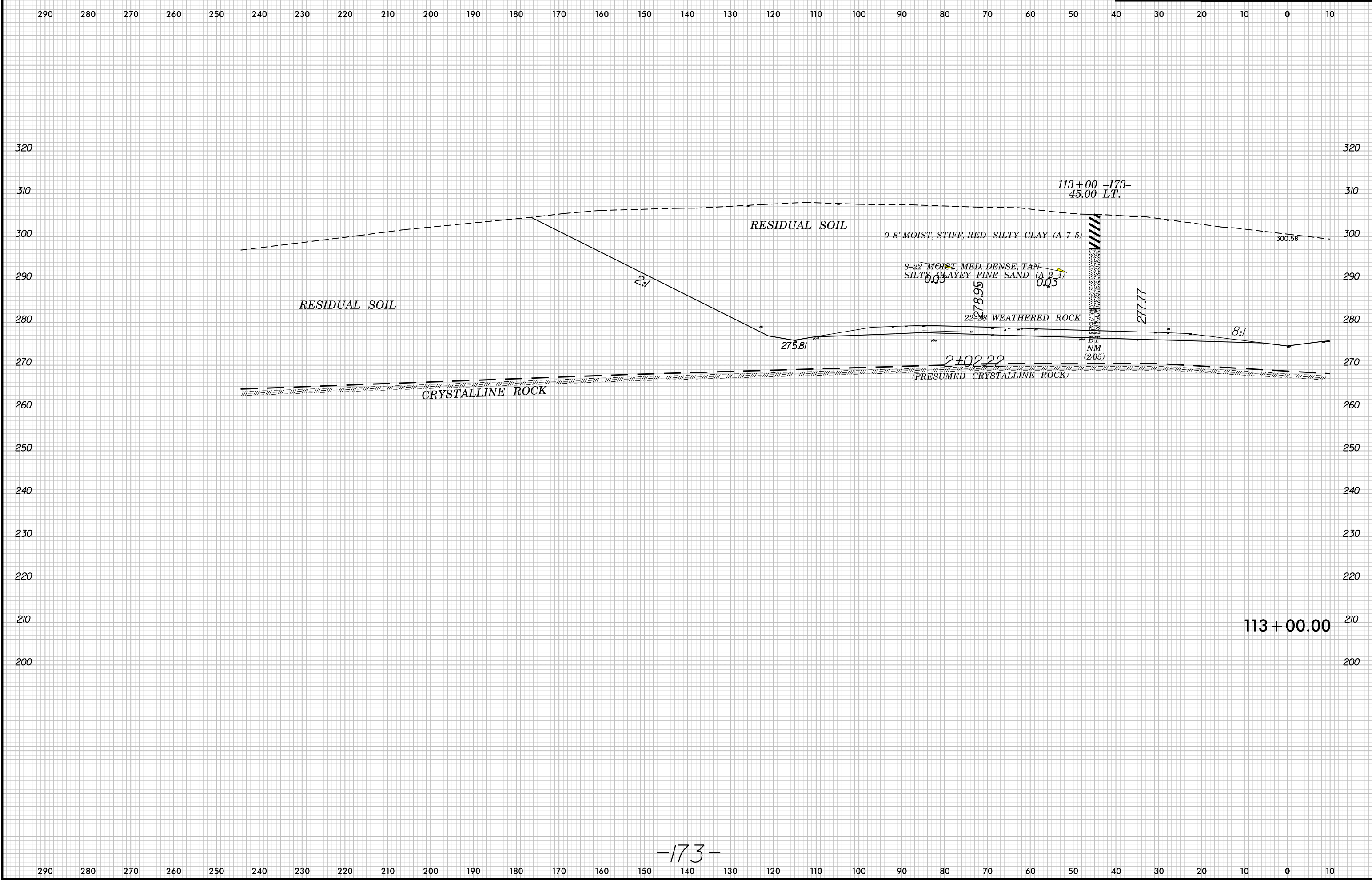


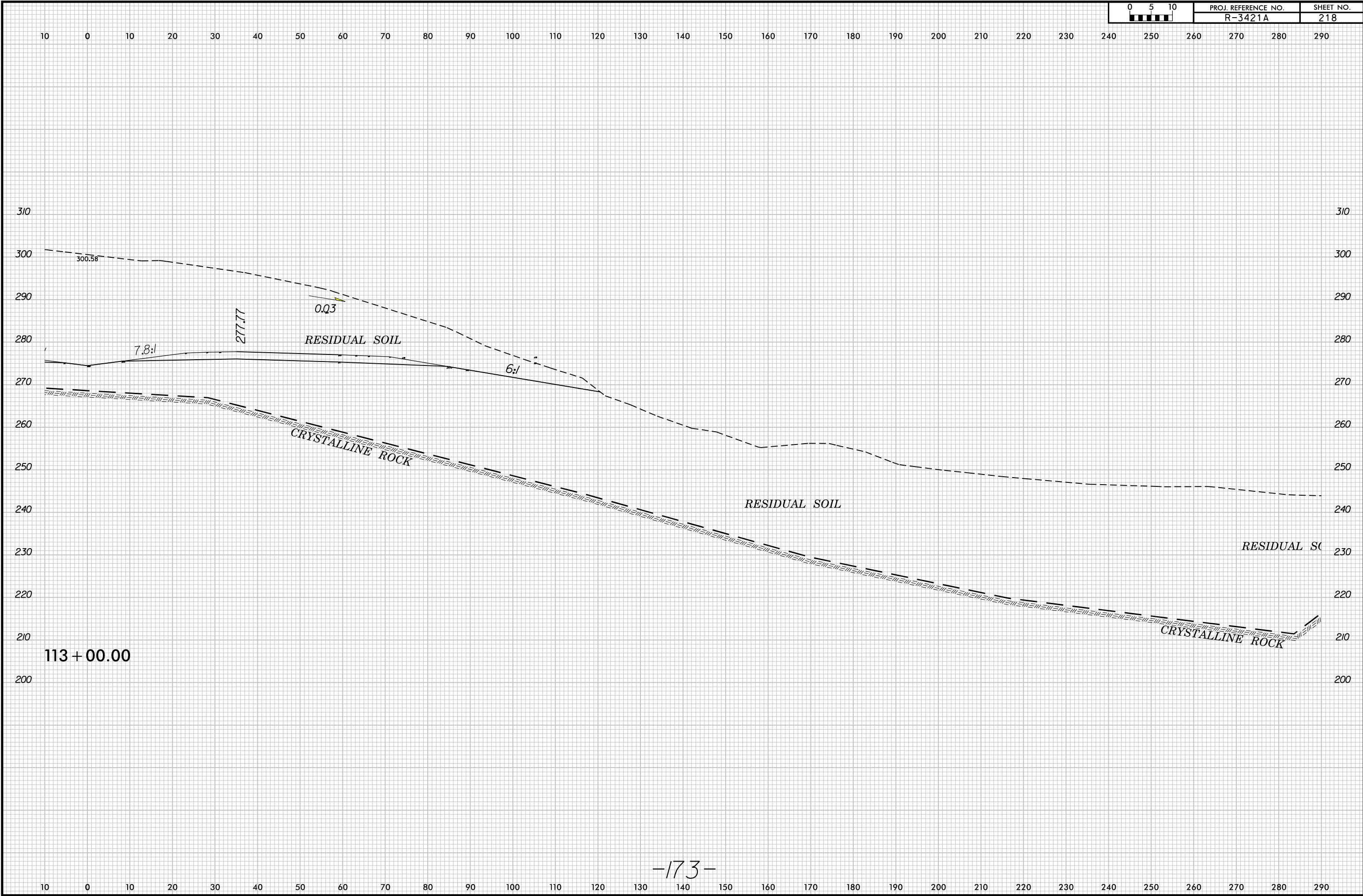
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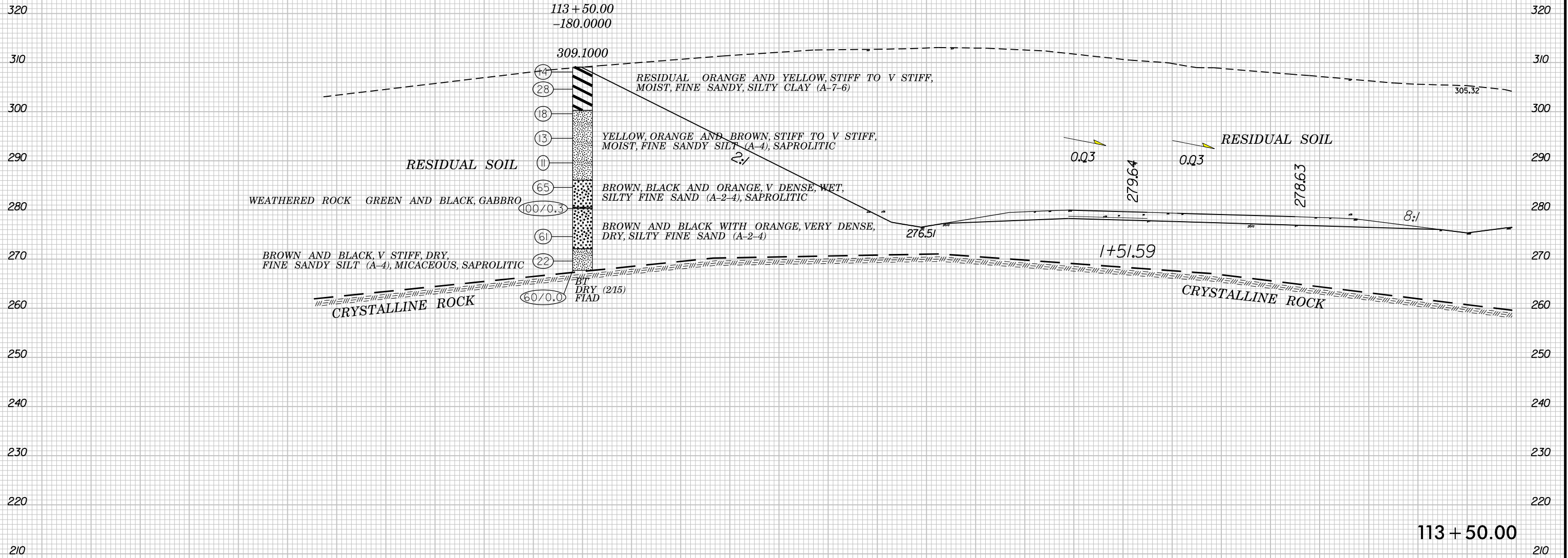
8/23/99



PROJ. REFERENCE NO.
R-3421A

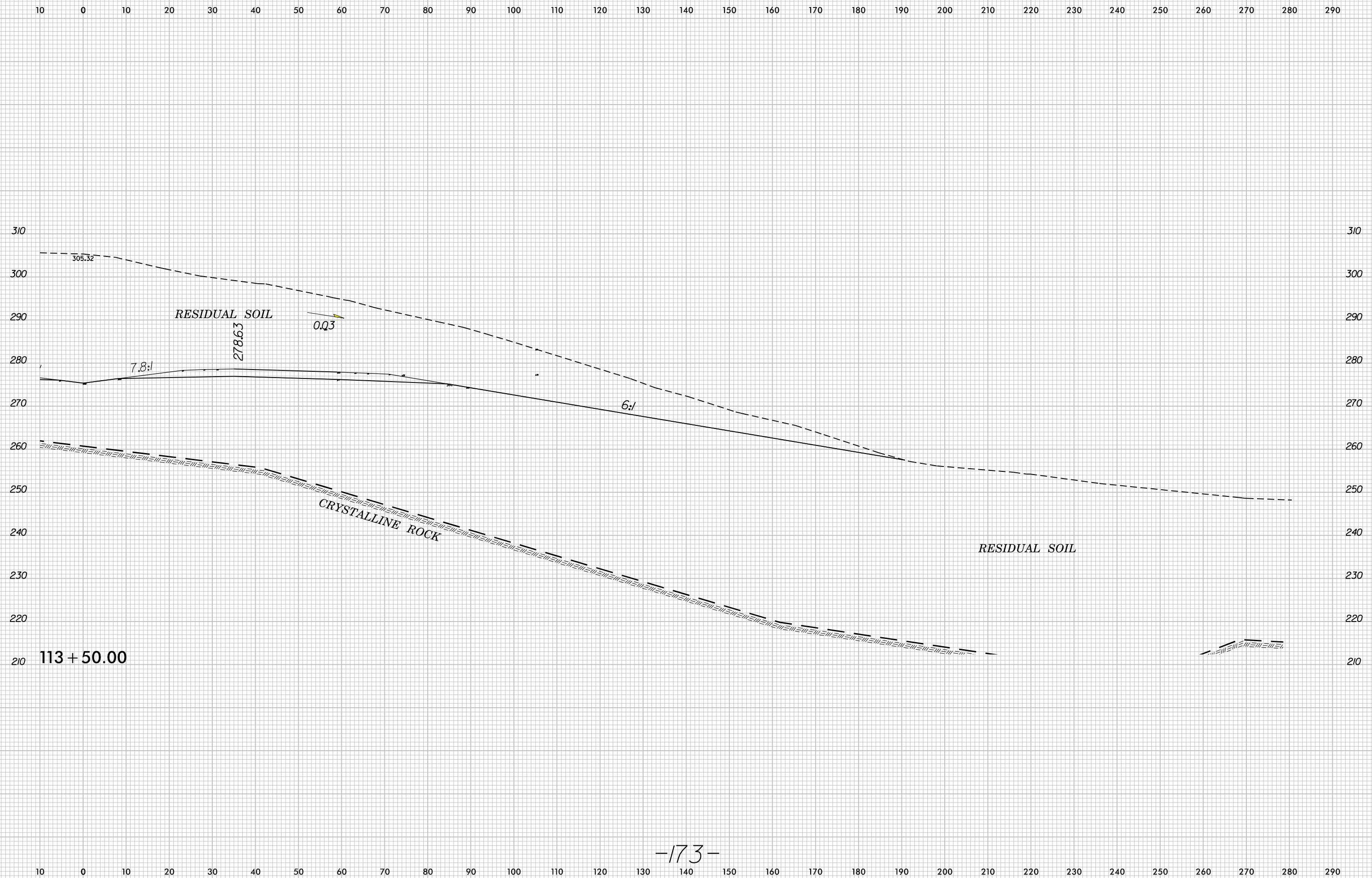
SHEET NO.
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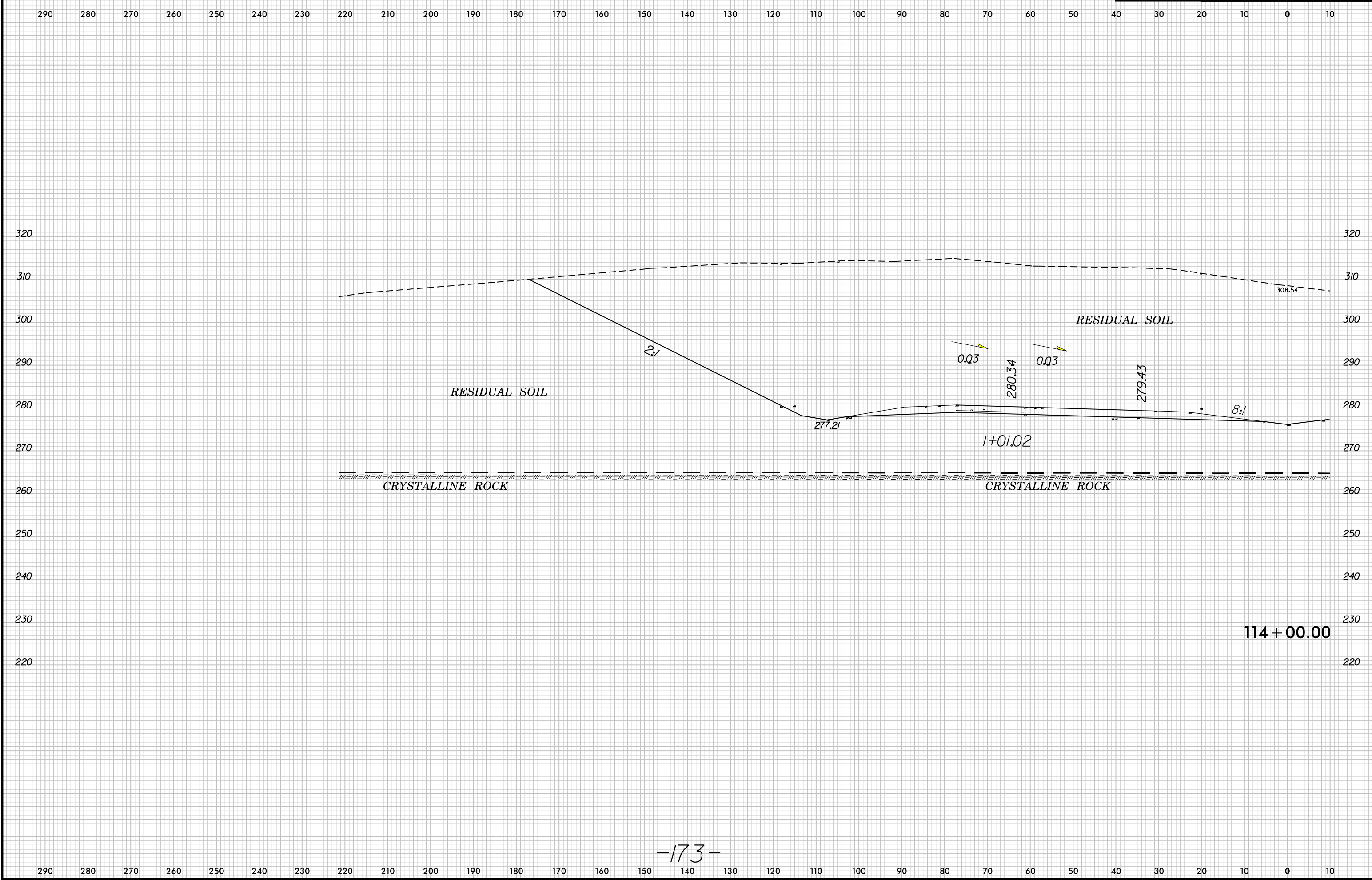
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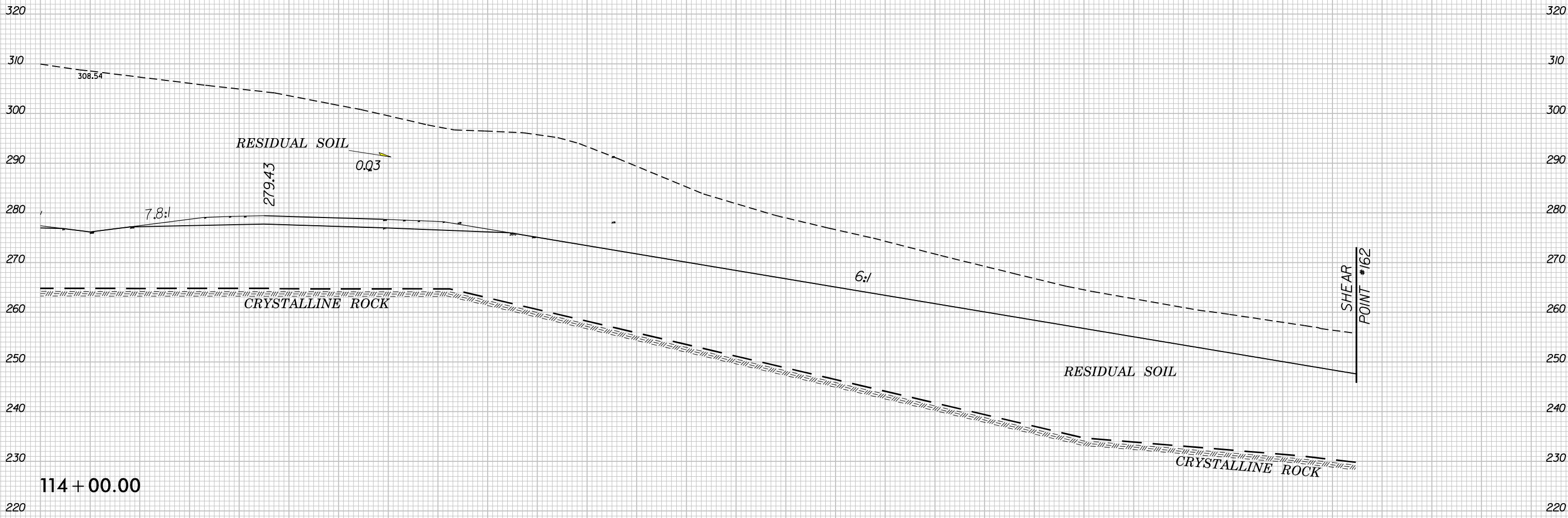
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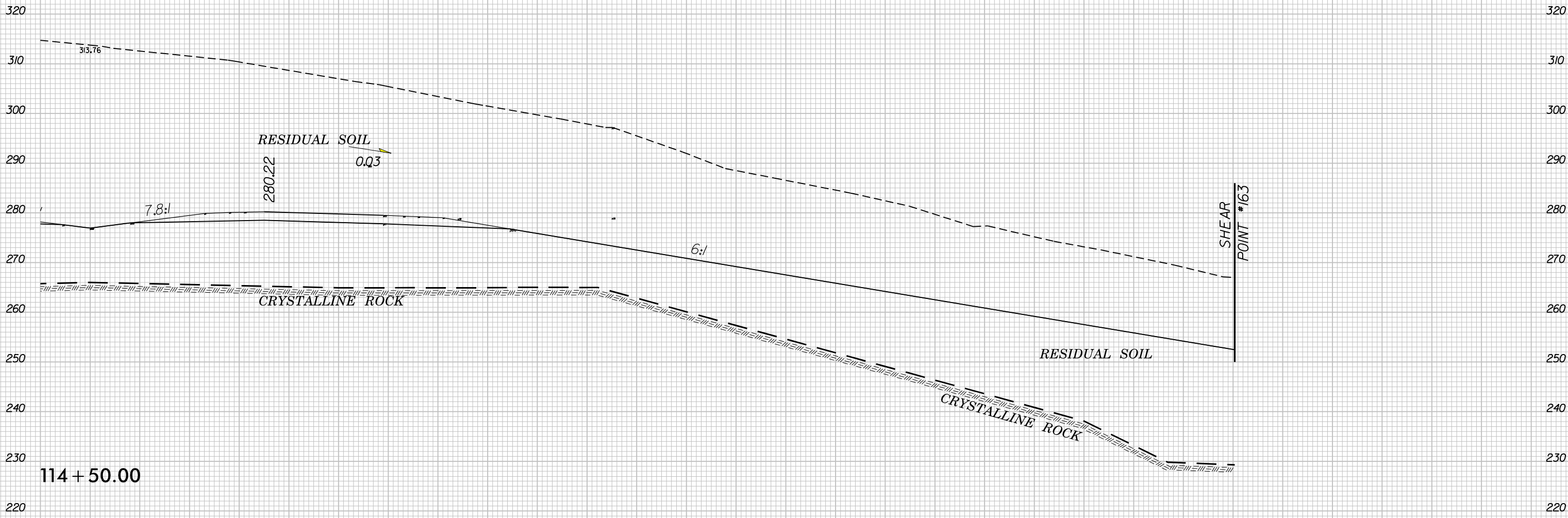


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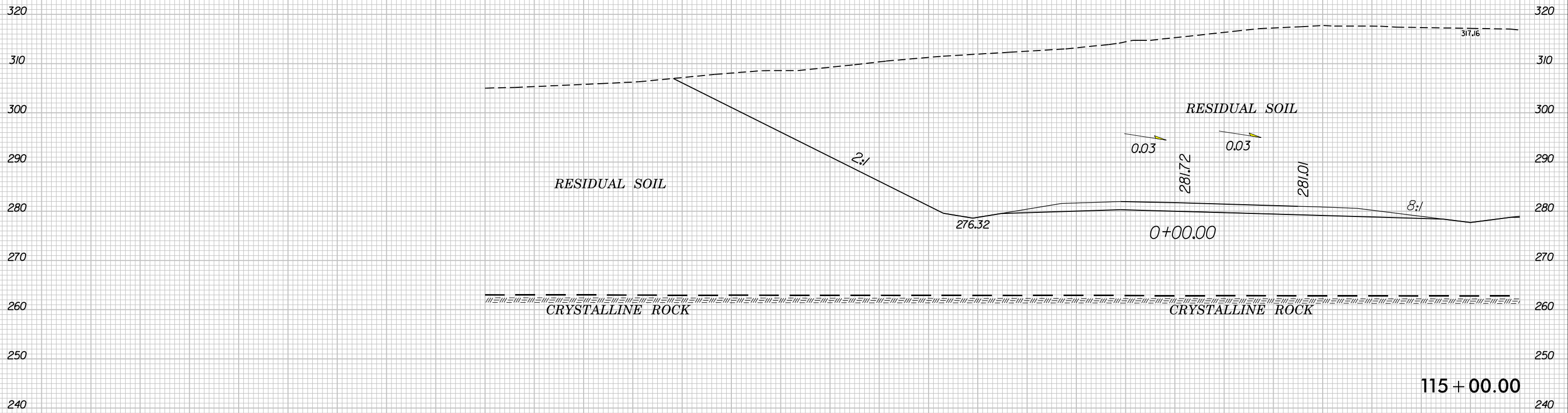


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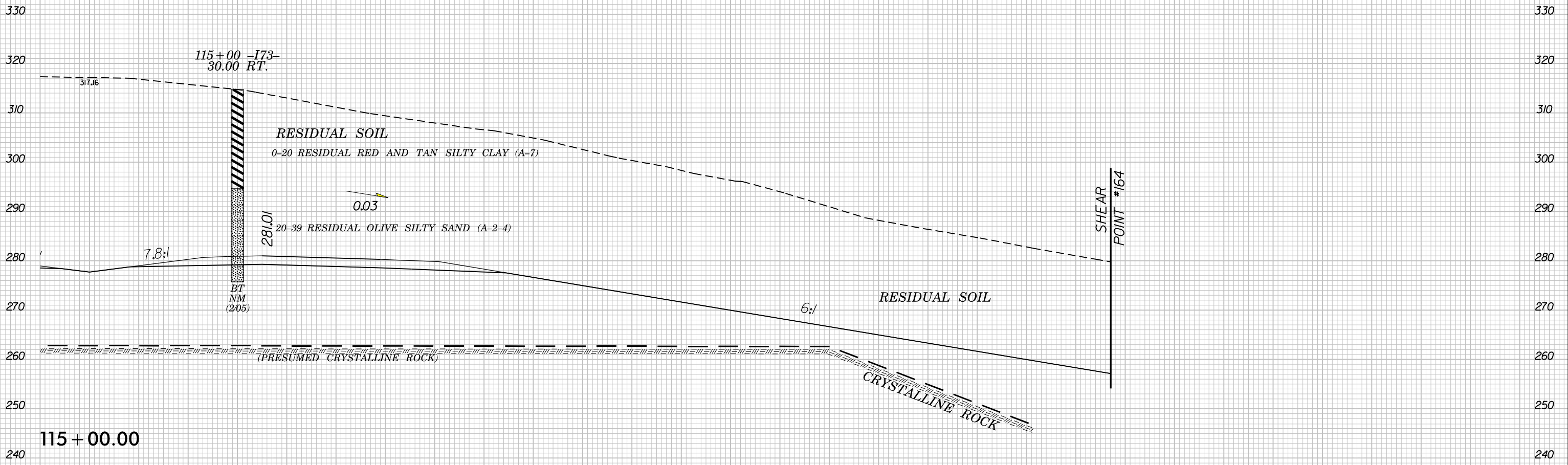


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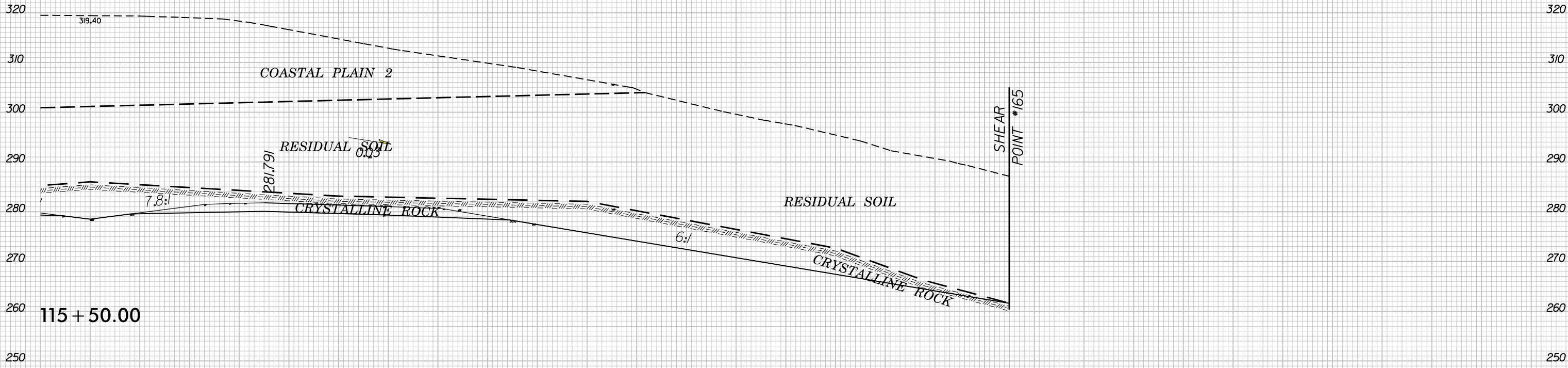
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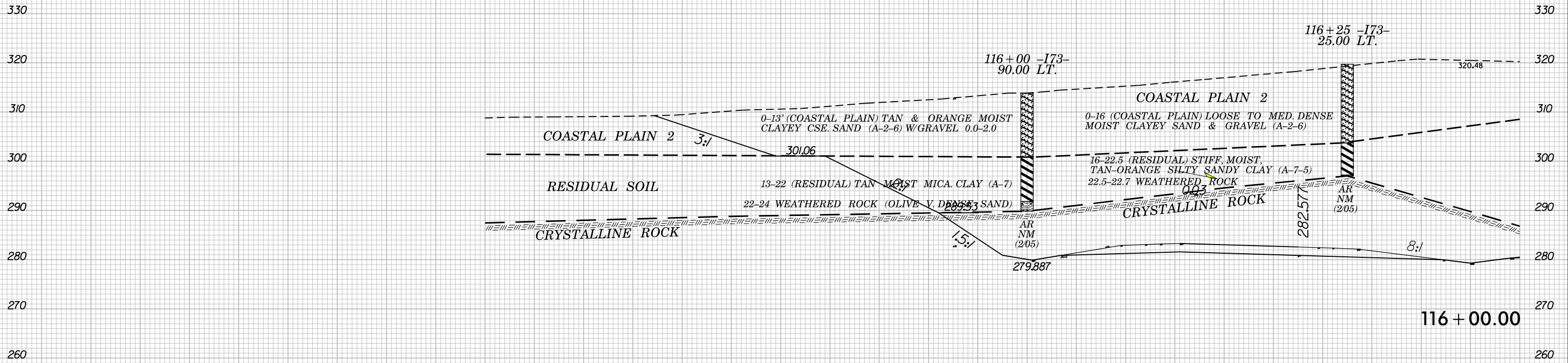
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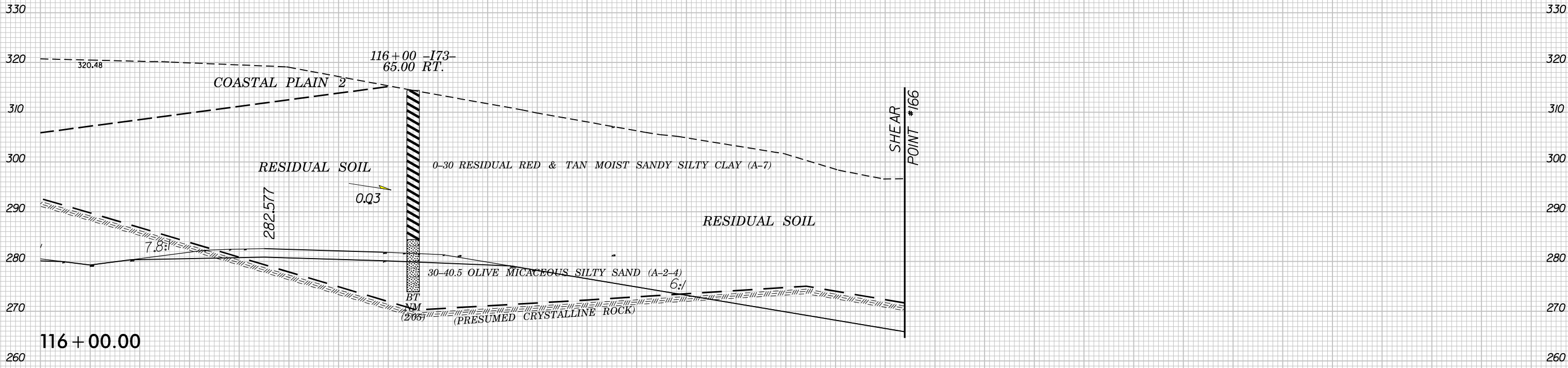


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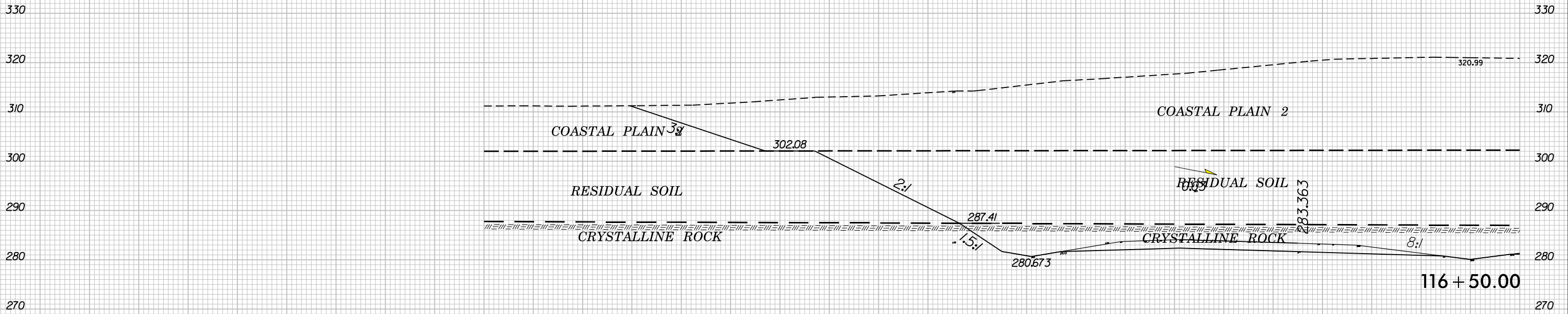


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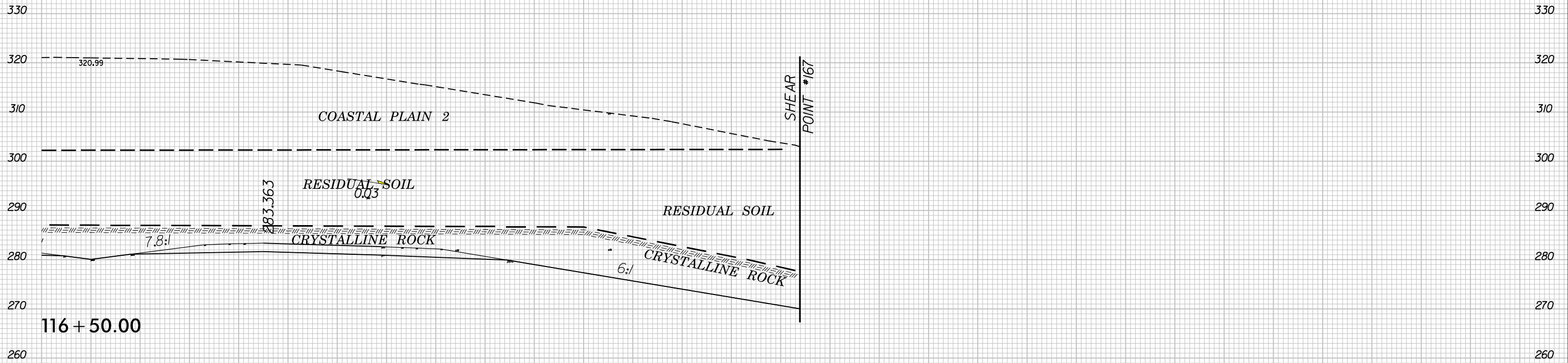
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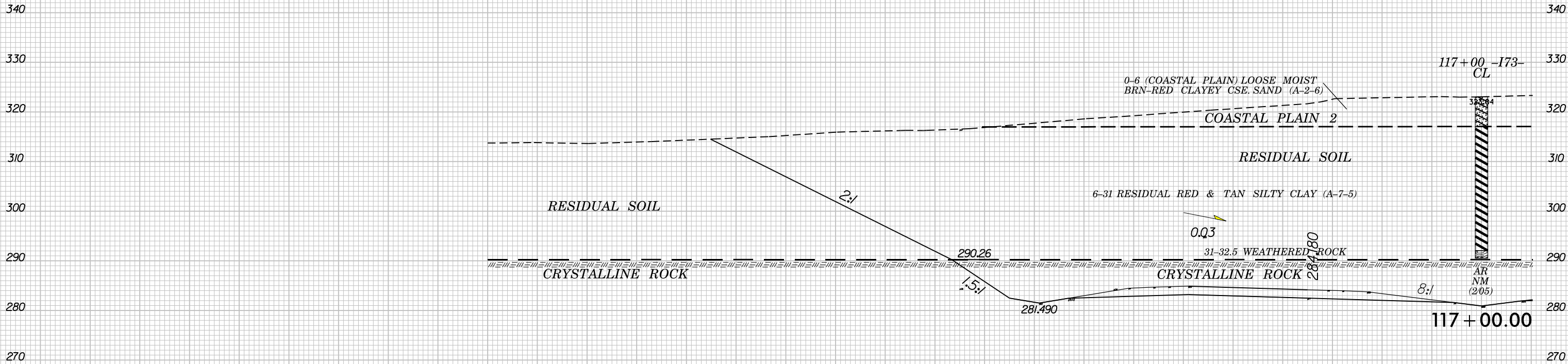


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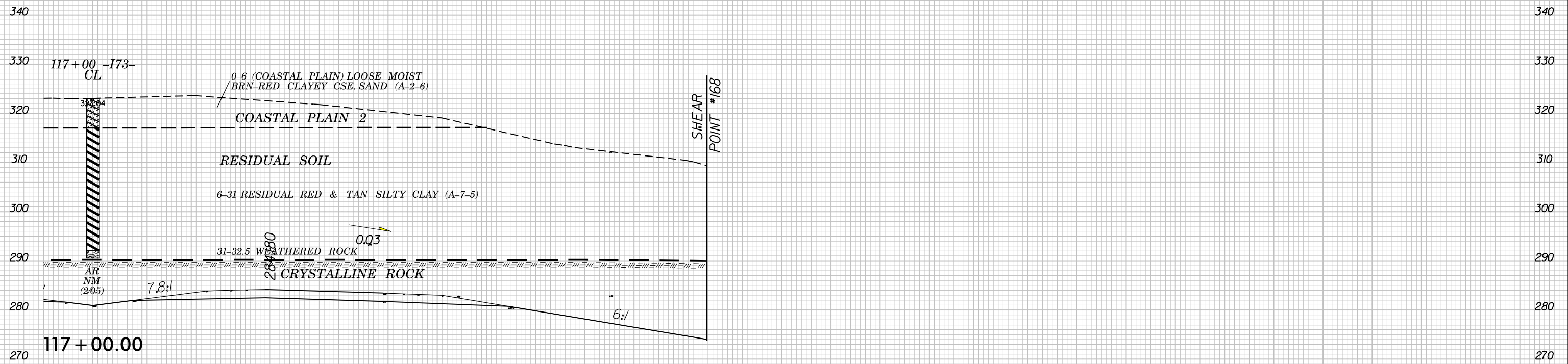


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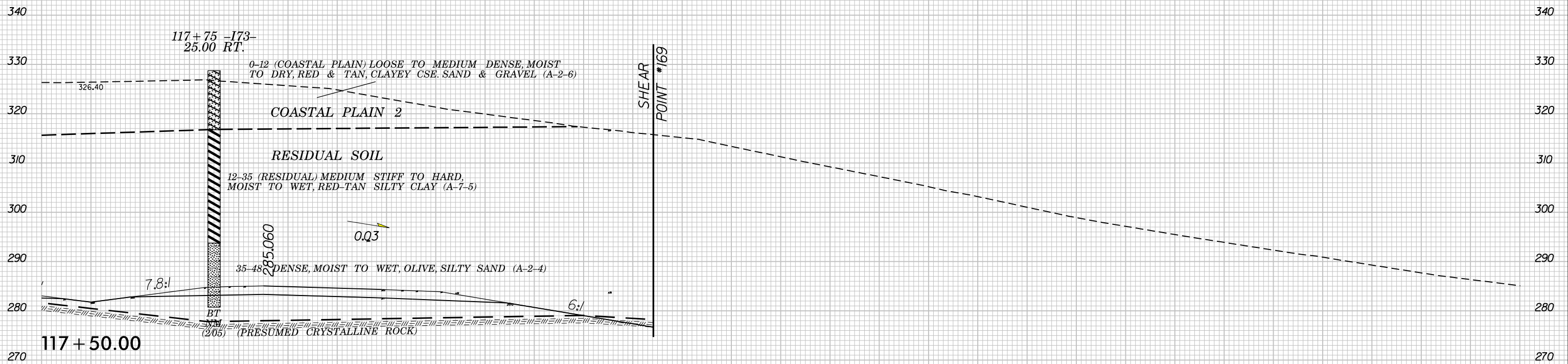


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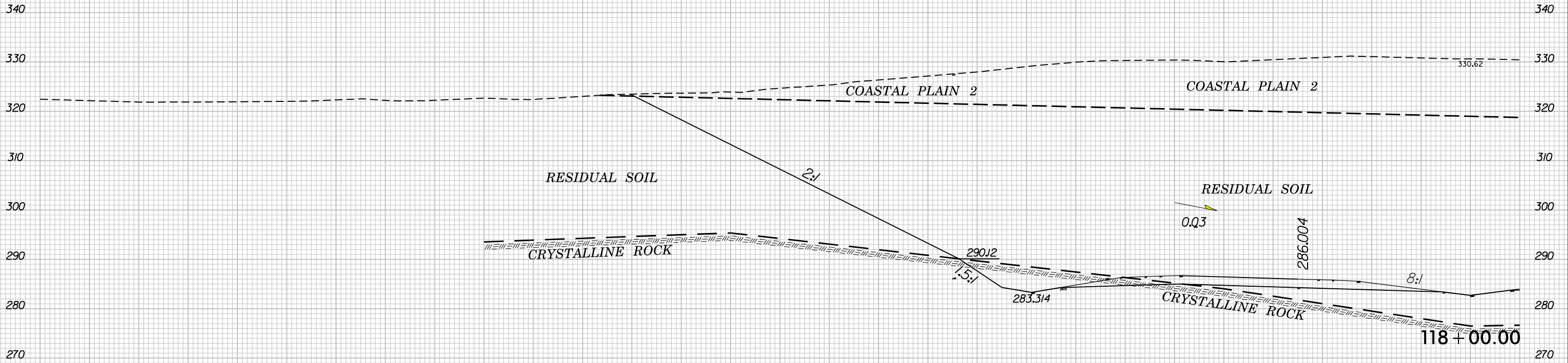
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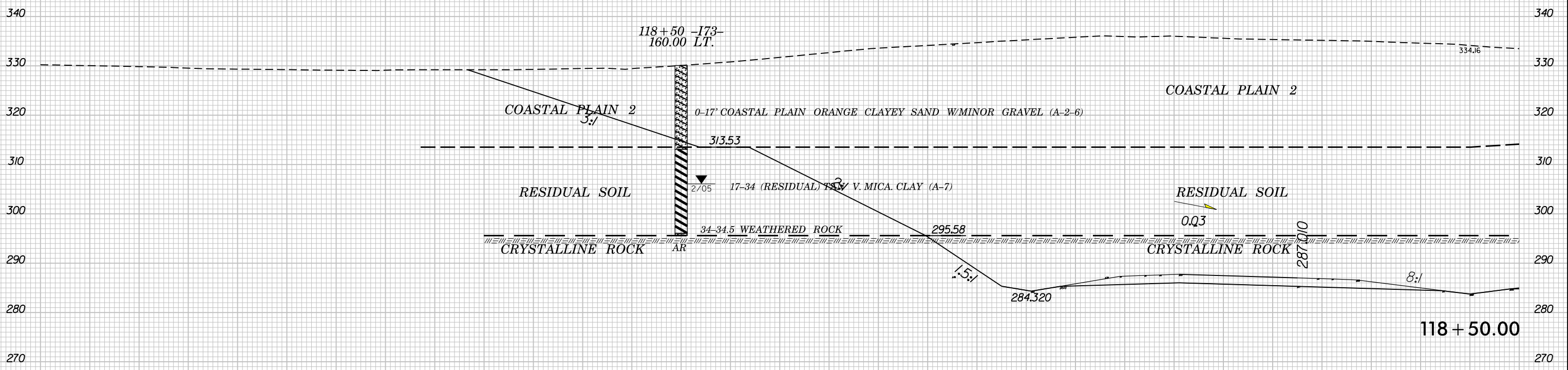
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8/23/99

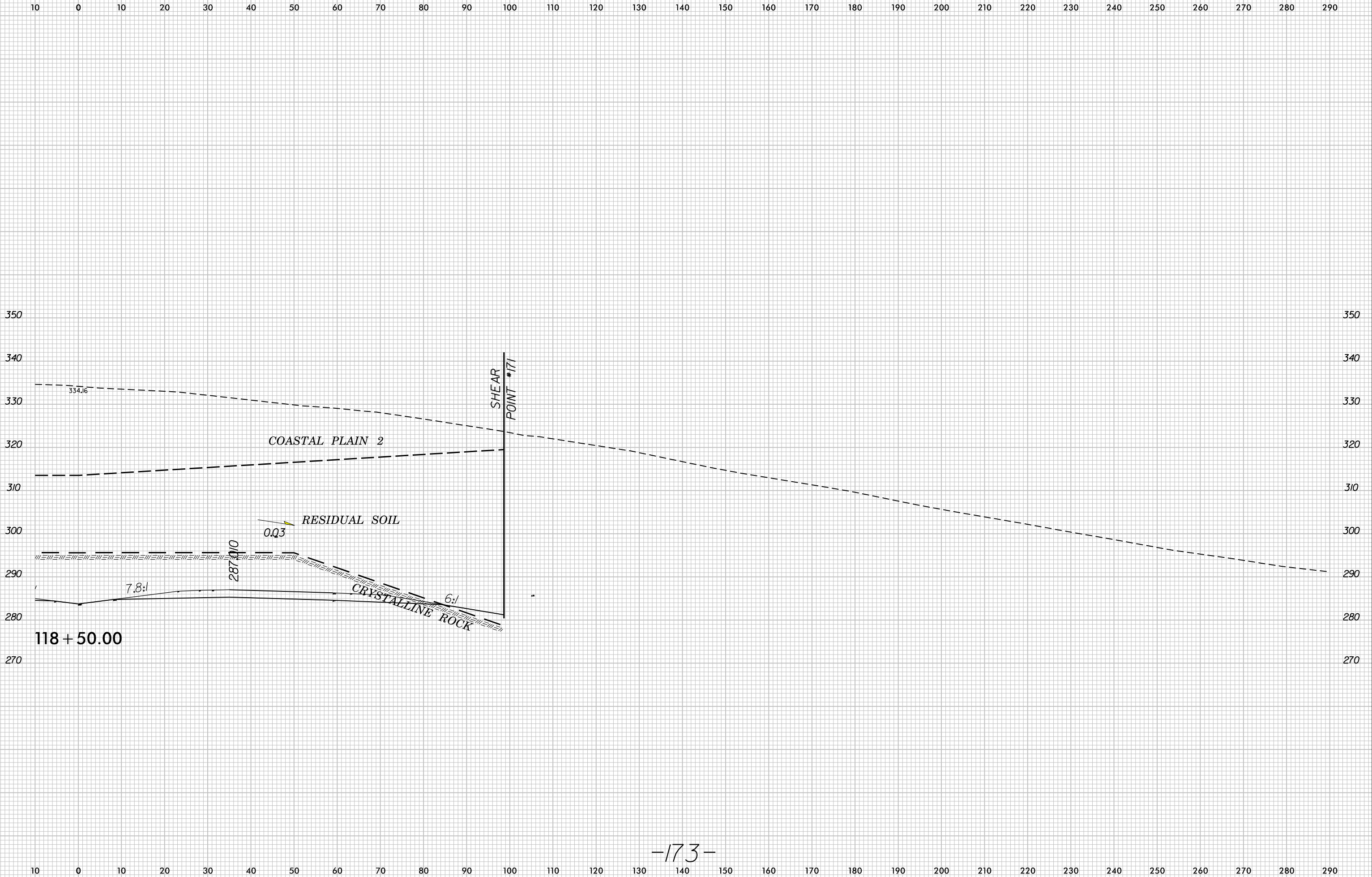
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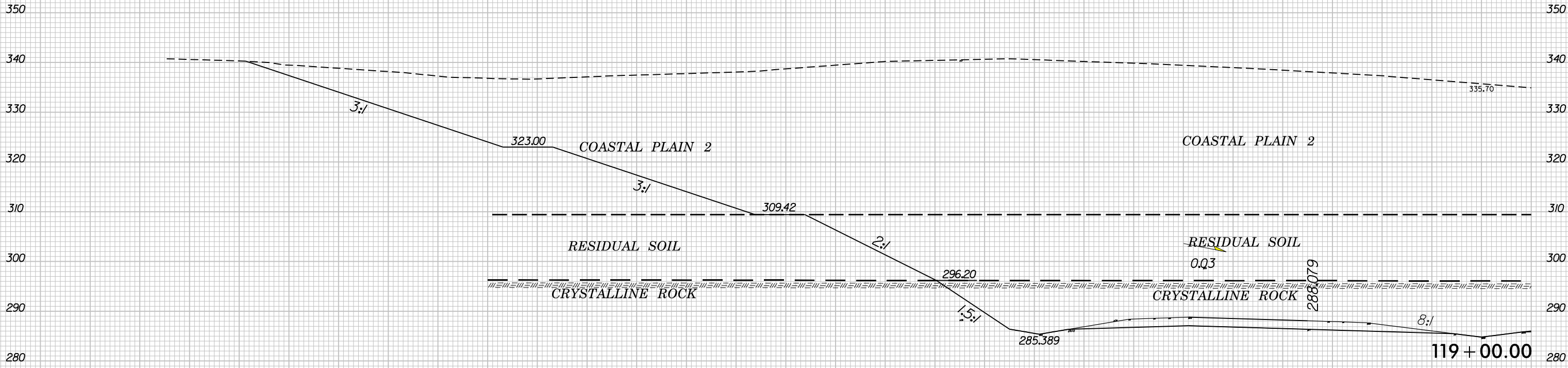
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8/23/99



PROJ. REFERENCE NO.
R-3421A

SHEET NO.
242

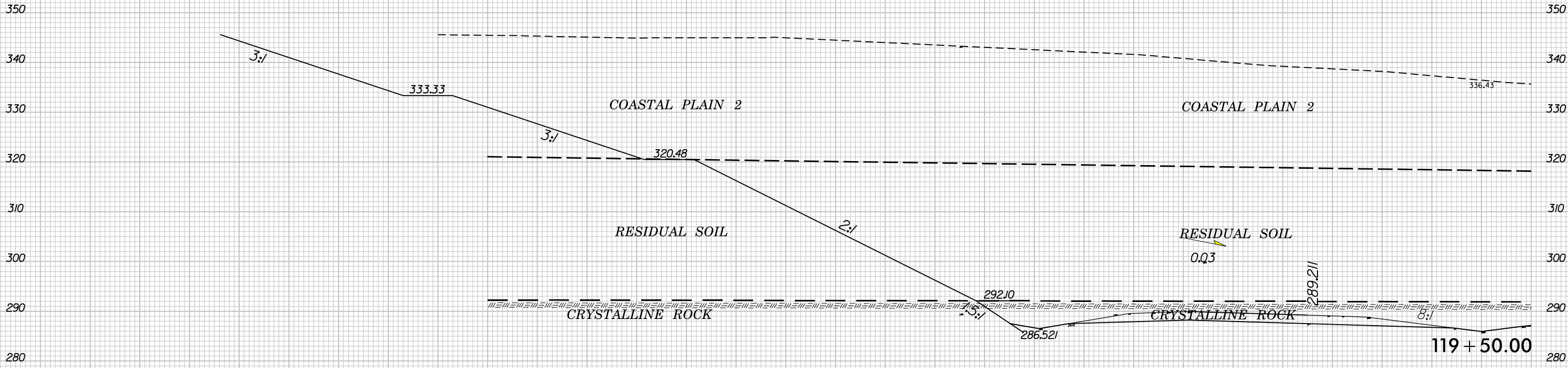
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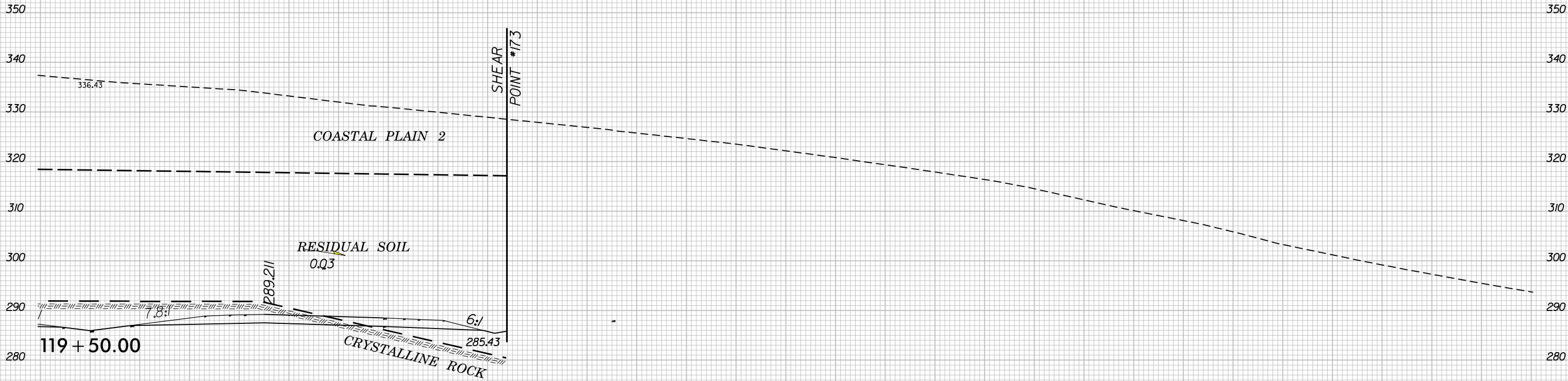
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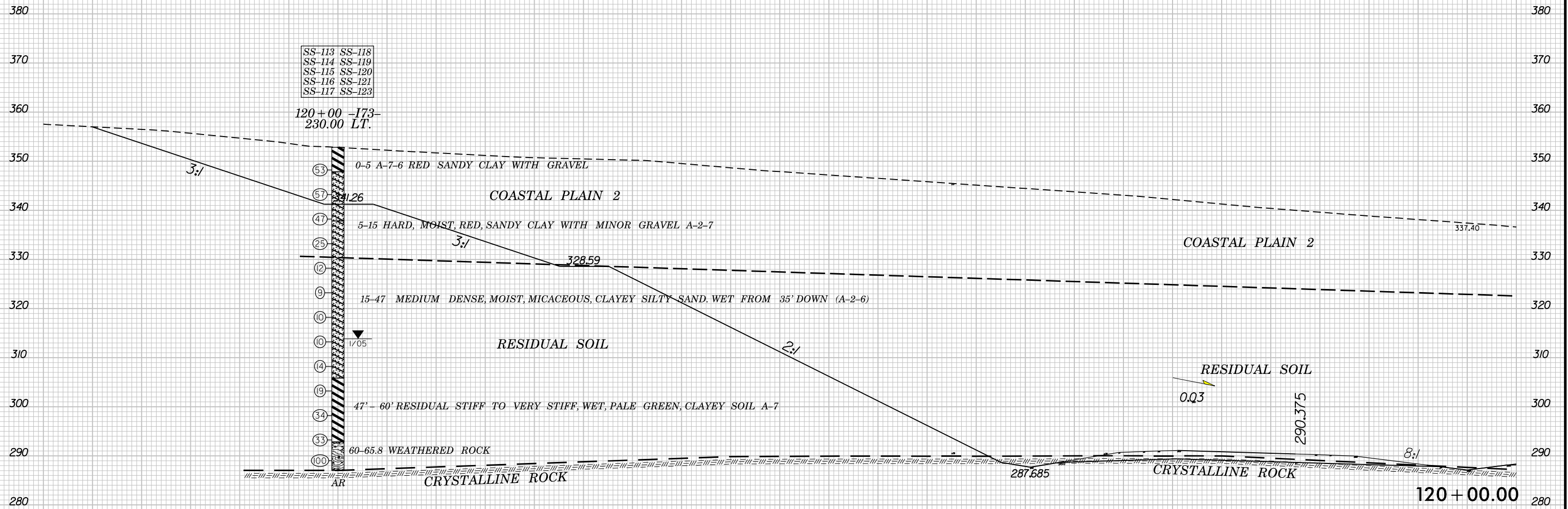
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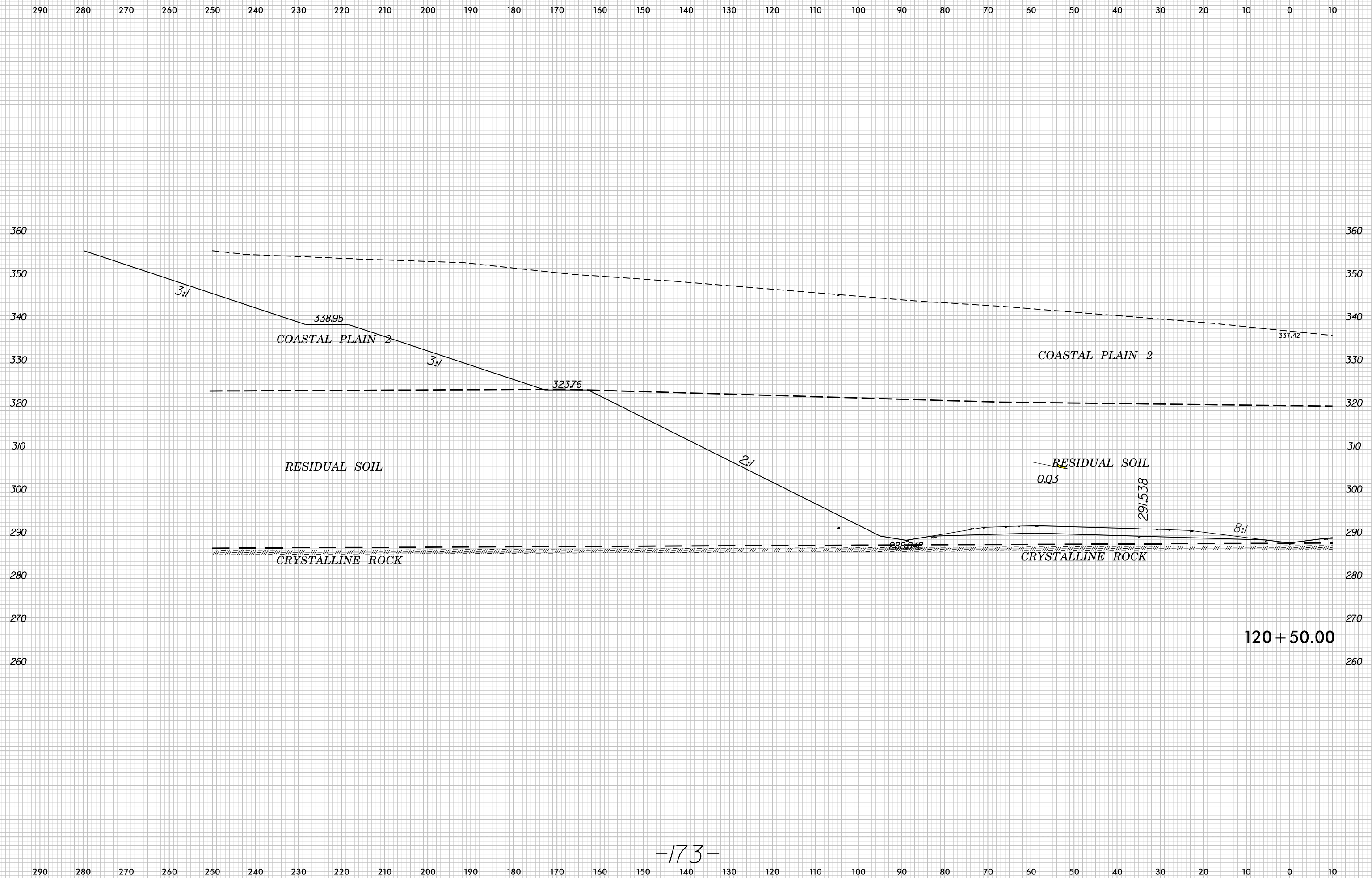
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SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	LL	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-113	11.0LT	120+00	3.60-5.10	A-7-6(5)	55	26	47.3	11.8	8.4	32.5	93	58	39	-	-
SS-114	11.0LT	120+00	8.60-10.10	A-2-7(1)	45	25	40.0	26.4	3.1	30.5	66	43	23	-	-
SS-115	11.0LT	120+00	13.60-15.10	A-2-7(3)	48	28	50.8	15.8	2.9	30.5	98	71	34	-	-
SS-116	11.0LT	120+00	18.60-20.10	A-2-7(1)	42	25	64.1	11.6	1.0	23.2	90	52	22	-	-
SS-117	11.0LT	120+00	23.60-25.10	A-2-7(2)	43	26	62.0	10.5	1.2	26.3	100	66	28	-	-
SS-118	11.0LT	120+00	28.60-30.10	A-2-7(2)	59	37	66.9	10.9	2.0	20.2	91	33	21	-	-
SS-119	11.0LT	120+00	33.60-35.10	A-2-7(1)	51	34	73.9	6.5	1.4	18.2	94	36	19	-	-
SS-120	11.0LT	120+00	38.60-40.10	A-2-7(0)	41	18	72.3	13.7	1.8	12.1	98	48	14	-	-
SS-121	11.0LT	120+00	48.60-50.10	A-7-5(55)	96	49	3.4	10.7	27.3	58.6	100	98	89	-	-
SS-123	11.0LT	120+00	58.60-60.10	A-7-5(9)	57	16	16.2	30.5	27.1	26.3	100	92	59	-	-



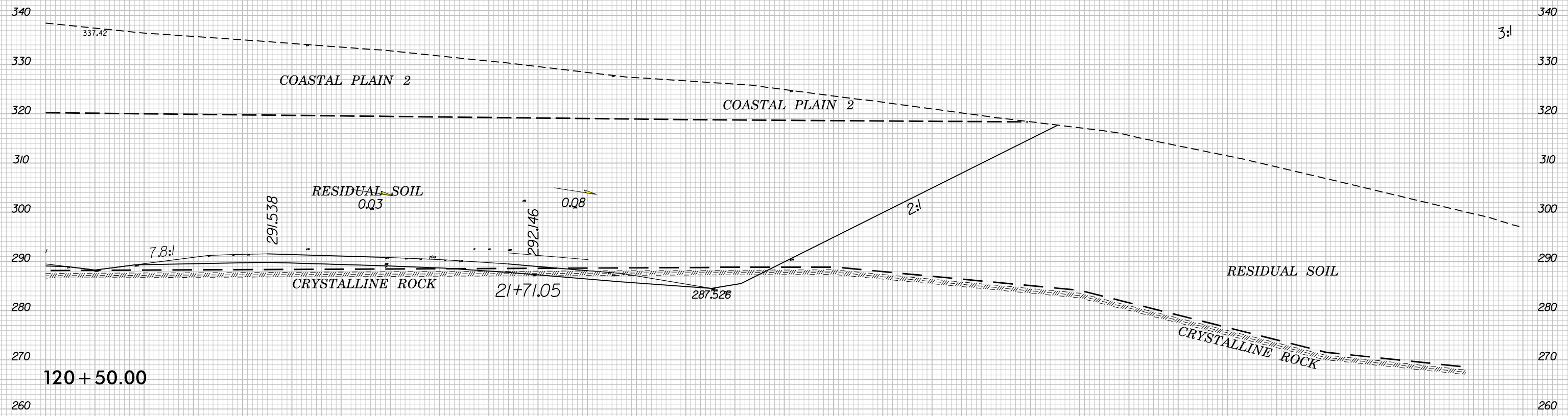
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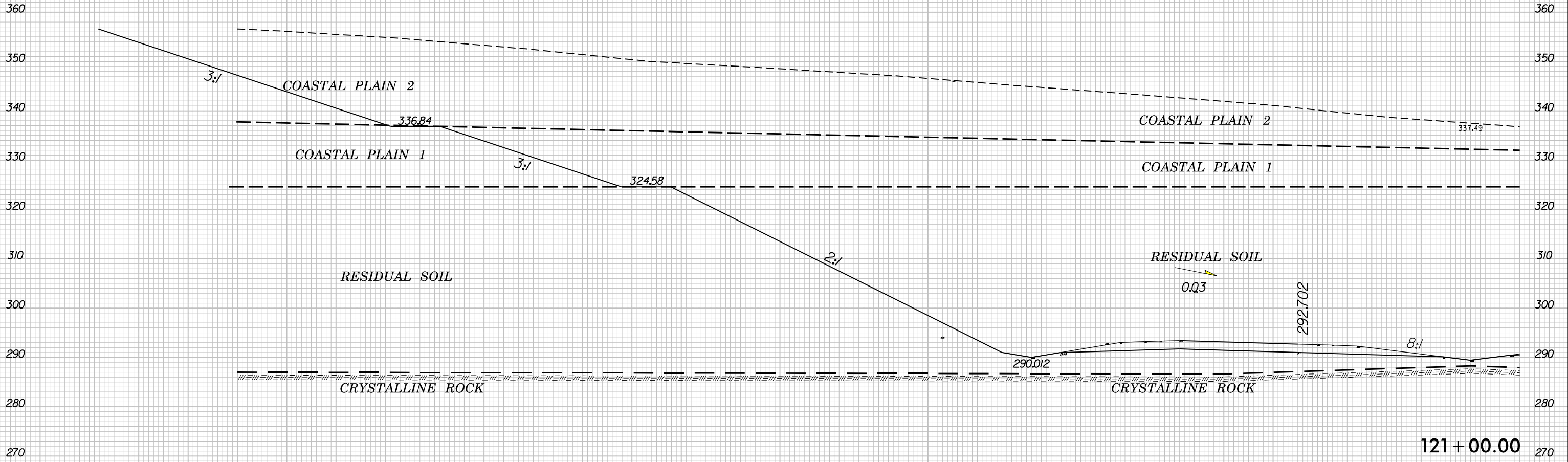


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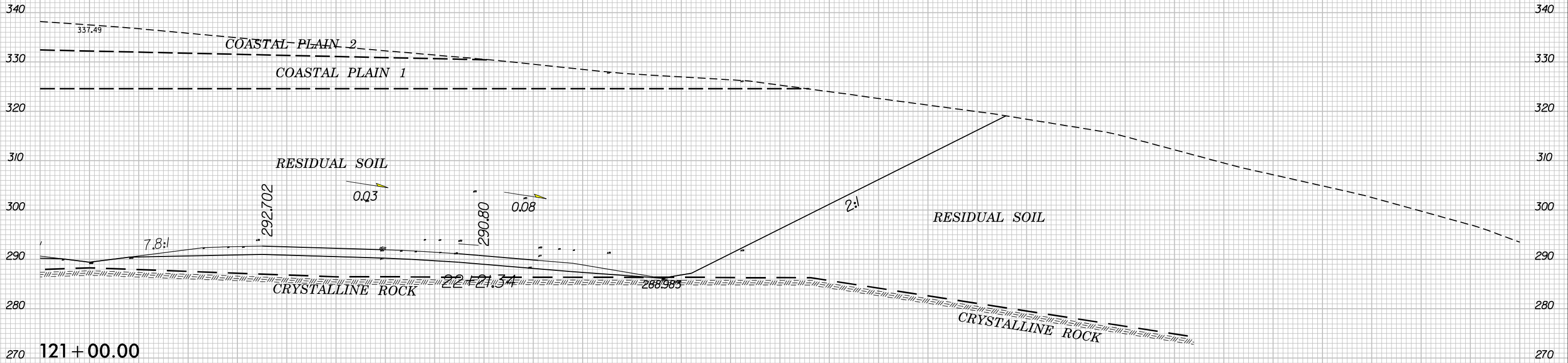
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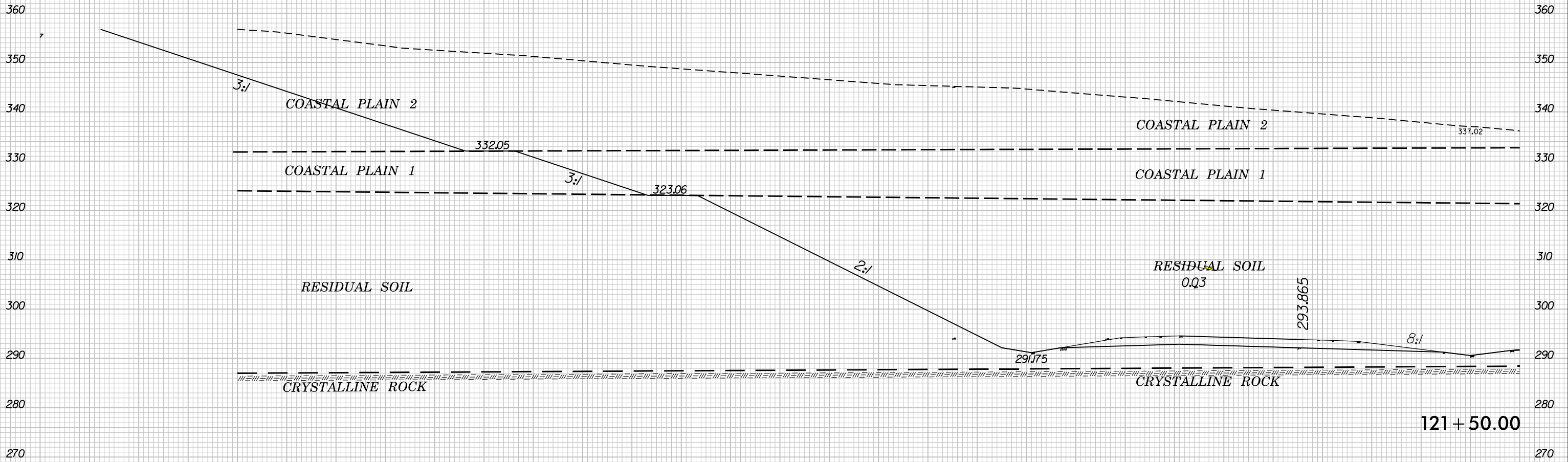


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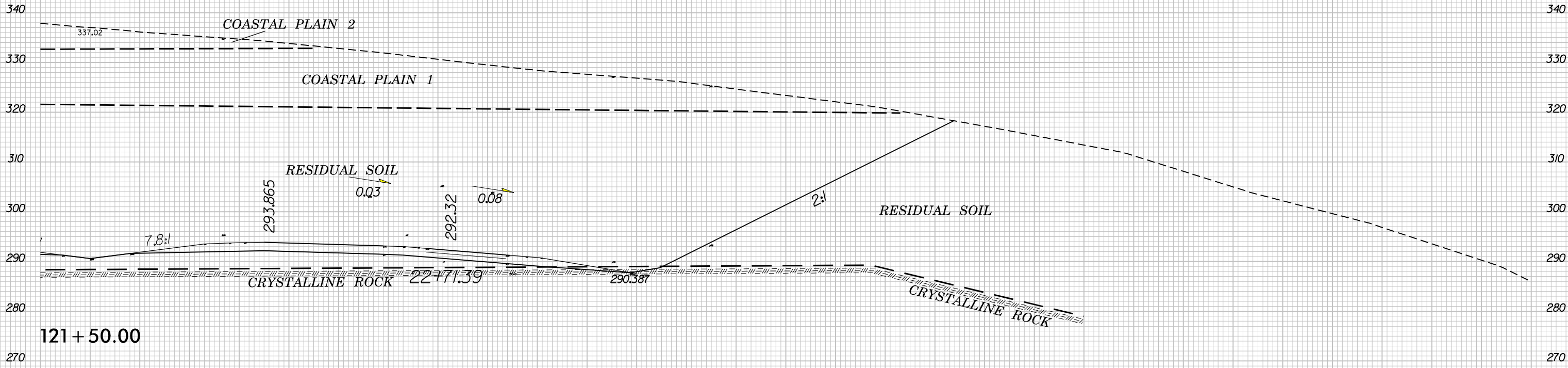


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290 280 270 260 250 240 230 220 210 200 190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10



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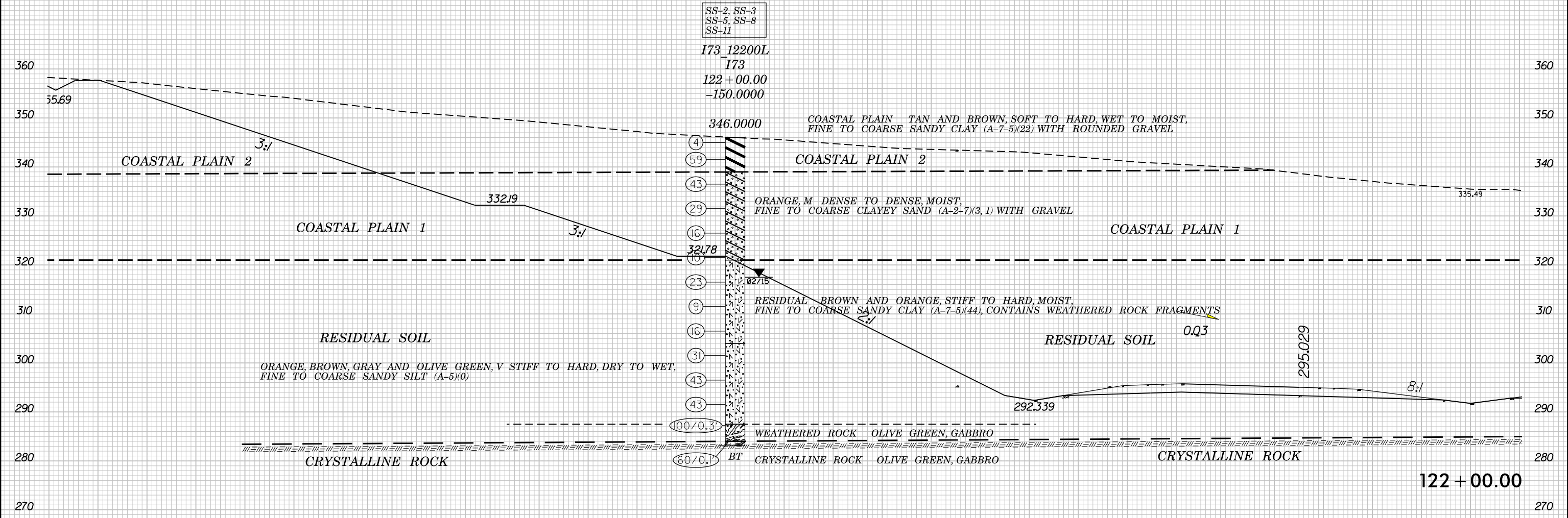


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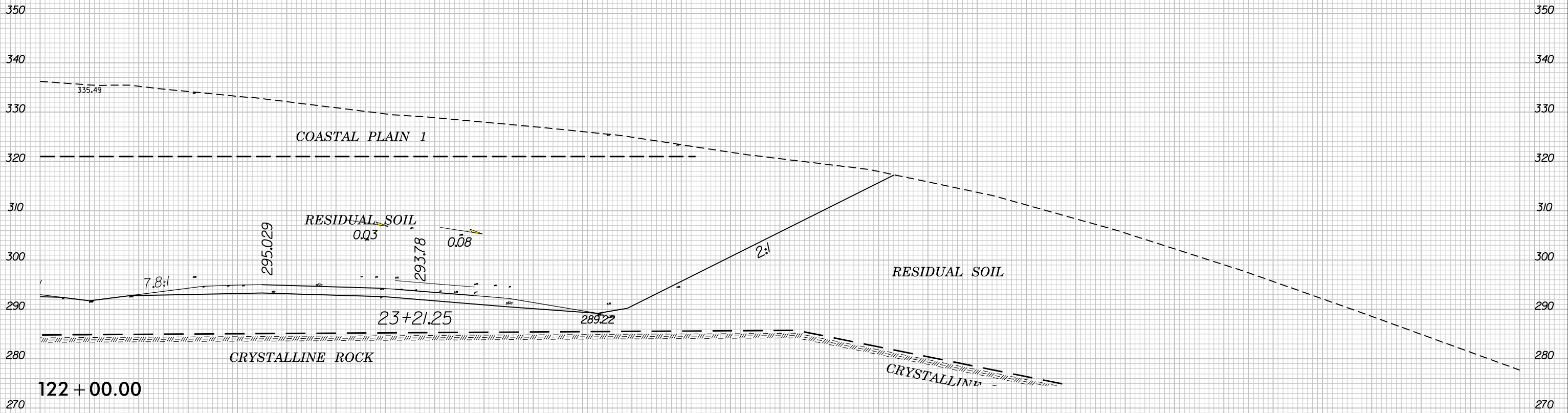
SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-2	150' LT	122+00	3.5-5.0	A-7-5 (22)	69	36	13.7	22.8	4.1	59.4	100	91.8	67.4	22.4	NT
SS-3	150' LT	122+00	8.5-10.0	A-2-7 (3)	50	26	56.8	10.6	0.4	32.2	99.5	68.2	33.4	13	NT
SS-5	150' LT	122+00	18.5-20.0	A-2-7 (1)	69	39	66.4	5.9	0	27.7	97.7	44.5	27.8	15.3	NT
SS-8	150' LT	122+00	33.5-35.0	A-7-5 (44)	98	37	4.1	12.8	16.3	66.8	100	98.8	86.6	51.5	NT
SS-11	150' LT	122+00	48.5-50.0	A-5 (0)	42	NP	26.3	40.7	25.3	7.7	99.6	87.4	41	34.6	NT

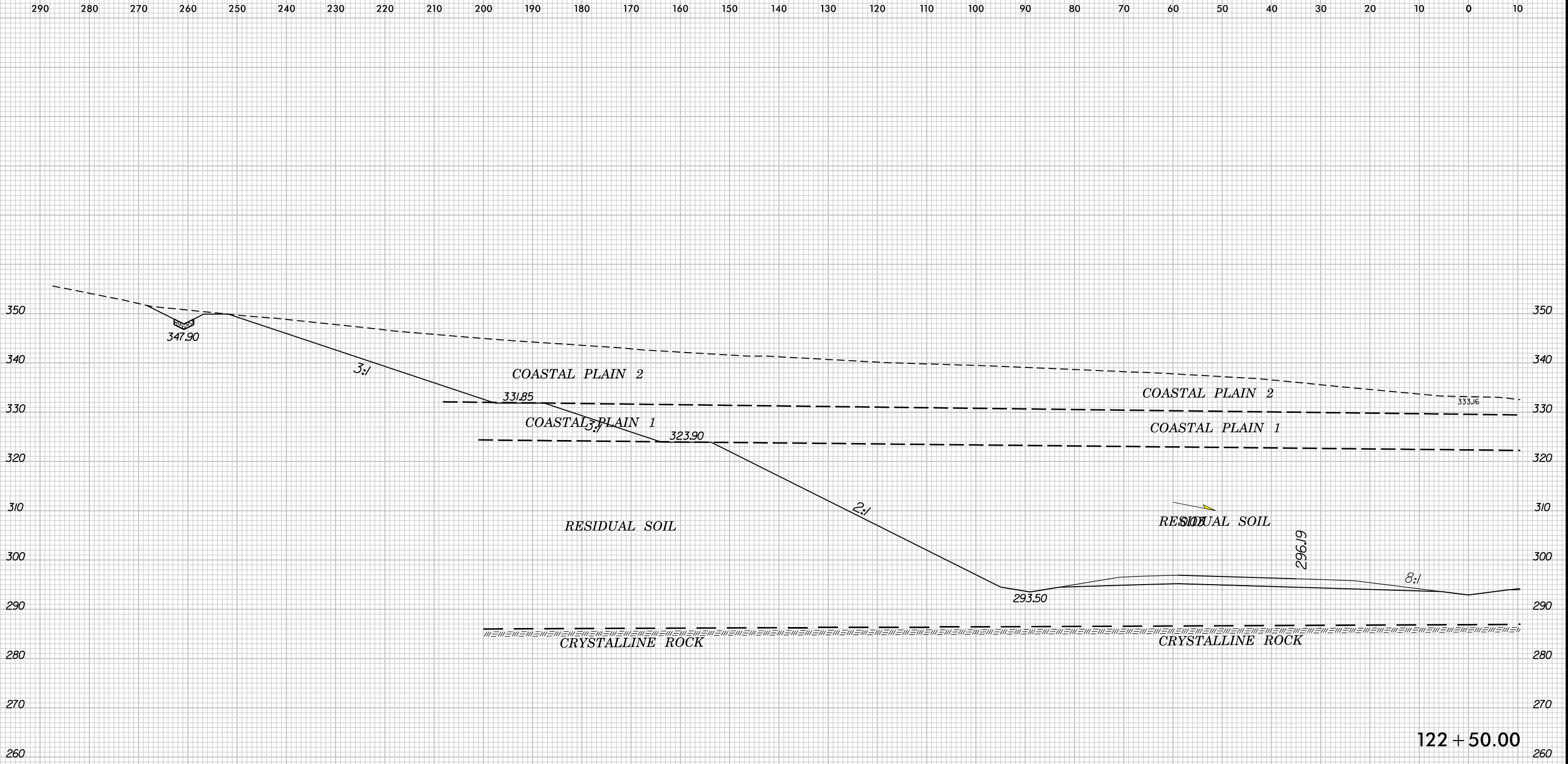


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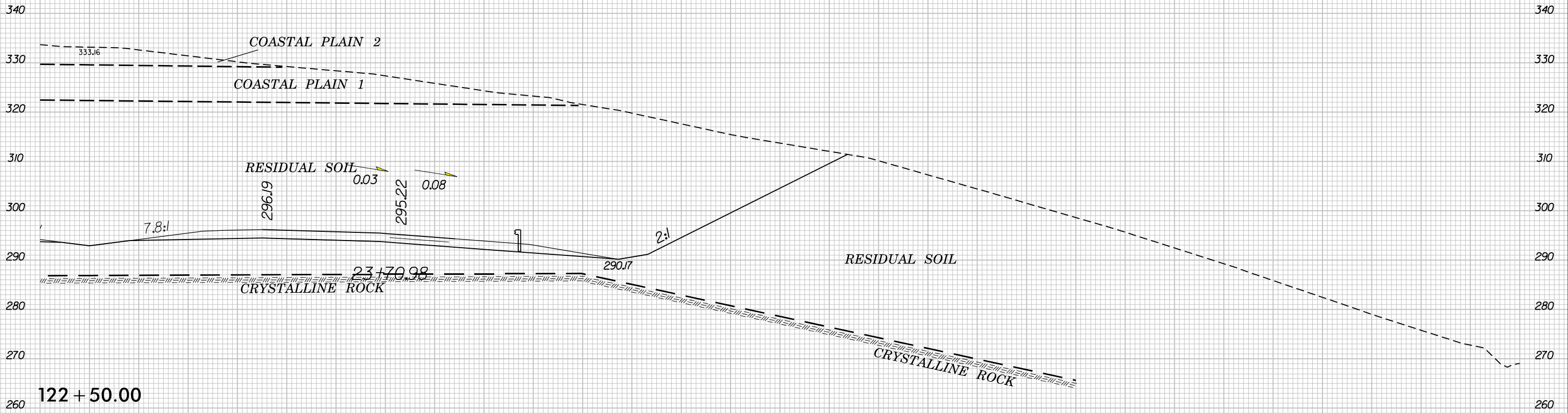
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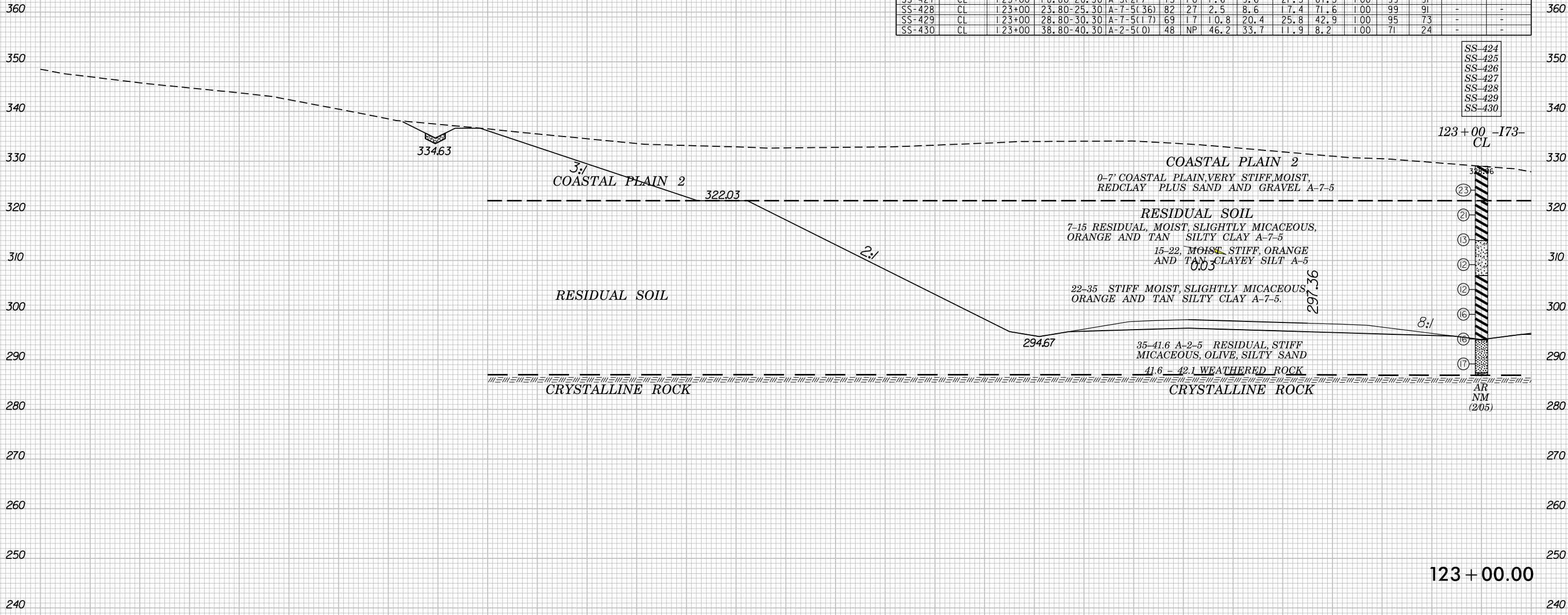
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290 280 270 260 250 240 230 220 210 200 190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10

SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-424	CL	123+00	3.80-5.30	A-7-5(8)	61	31	48.9	8.8	1.4	40.9	97	61	42	-	-
SS-425	CL	123+00	8.80-10.30	A-7-5(30)	72	30	5.5	16.2	21.1	57.3	100	98	82	-	-
SS-426	CL	123+00	13.80-15.30	A-7-5(60)	104	54	3.7	11.5	17.4	67.5	100	98	88	-	-
SS-427	CL	123+00	18.80-20.30	A-5(21)	75	10	1.6	9.6	21.3	67.5	100	99	91	-	-
SS-428	CL	123+00	23.80-25.30	A-7-5(36)	82	27	2.5	8.6	17.4	71.6	100	99	91	-	-
SS-429	CL	123+00	28.80-30.30	A-7-5(17)	69	17	10.8	20.4	25.8	42.9	100	95	73	-	-
SS-430	CL	123+00	38.80-40.30	A-2-5(0)	48	NP	46.2	33.7	11.9	8.2	100	71	24	-	-



290 280 270 260 250 240 230 220 210 200 190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10

10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290

SOIL TEST RESULTS

SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-424	CL	123+00	3.80-5.30	A-7-5(8)	61	31	48.9	8.8	1.4	40.9	97	61	42	-	-
SS-425	CL	123+00	8.80-10.30	A-7-5(30)	72	30	5.5	16.2	21.1	57.3	100	98	82	-	-
SS-426	CL	123+00	13.80-15.30	A-7-5(60)	104	54	3.7	11.5	17.4	67.5	100	98	88	-	-
SS-427	CL	123+00	18.80-20.30	A-5(21)	75	10	1.6	9.6	21.3	67.5	100	99	91	-	-
SS-428	CL	123+00	23.80-25.30	A-7-5(36)	82	27	2.5	8.6	17.4	71.6	100	99	91	-	-
SS-429	CL	123+00	28.80-30.30	A-7-5(17)	69	17	10.8	20.4	25.8	42.9	100	95	73	-	-
SS-430	CL	123+00	38.80-40.30	A-2-5(0)	48	NP	46.2	33.7	11.9	8.2	100	71	24	-	-

360

360

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SS-424
 SS-425
 SS-426
 SS-427
 SS-428
 SS-429
 SS-430

123+00 -173-
 CL

0-7' COASTAL PLAIN, VERY STIFF, MOIST, RED CLAY PLUS SAND AND GRAVEL A-7-5

COASTAL PLAIN-2

7-15 RESIDUAL, MOIST, SLIGHTLY MICACEOUS, ORANGE AND TAN SILTY CLAY A-7-5

15-22, MOIST STIFF, ORANGE AND TAN CLAYEY SILT A-5

RESIDUAL SOIL
 22-35 STIFF MOIST, SLIGHTLY MICACEOUS, ORANGE AND TAN SILTY CLAY A-7-5

35-41.6 A-2-5 RESIDUAL, STIFF, MICACEOUS, OLIVE, SILTY SAND

41.6-42.1 WEATHERED ROCK
 CRYSTALLINE ROCK

RESIDUAL SOIL

CRYSTALLINE ROCK

7.8:1

2:1

2:1

0.06

2:1

2:1

2:1

2:1

2:1

2:1

2:1

2:1

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2:1

123+00.00

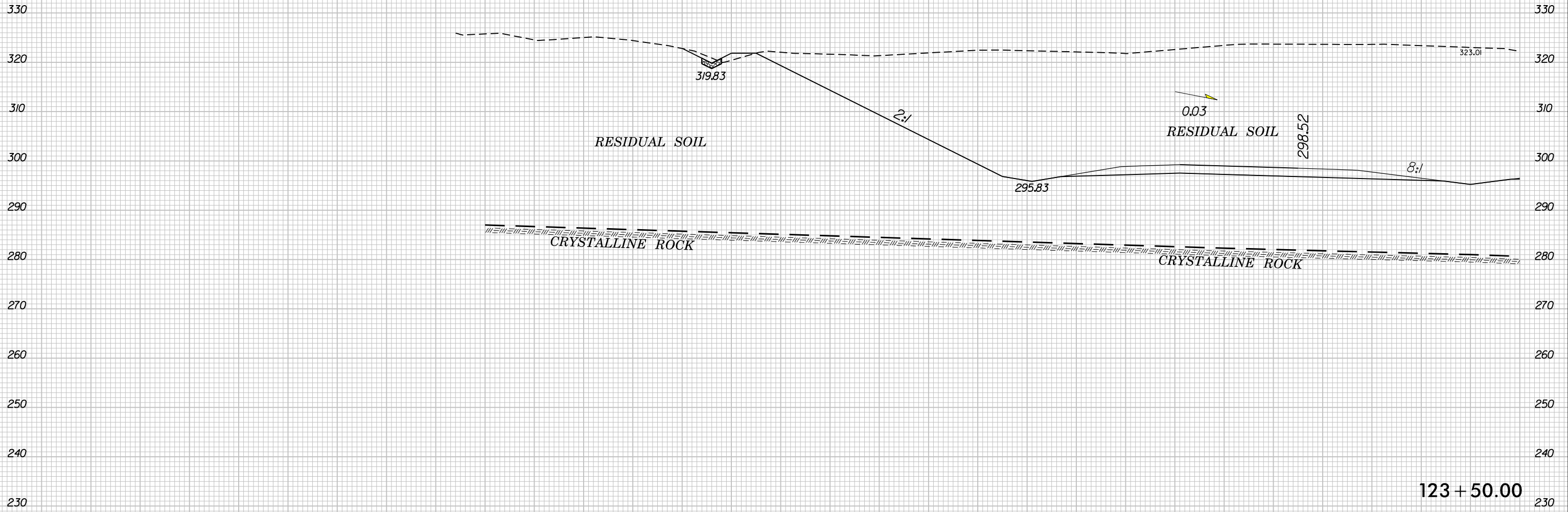
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291.93

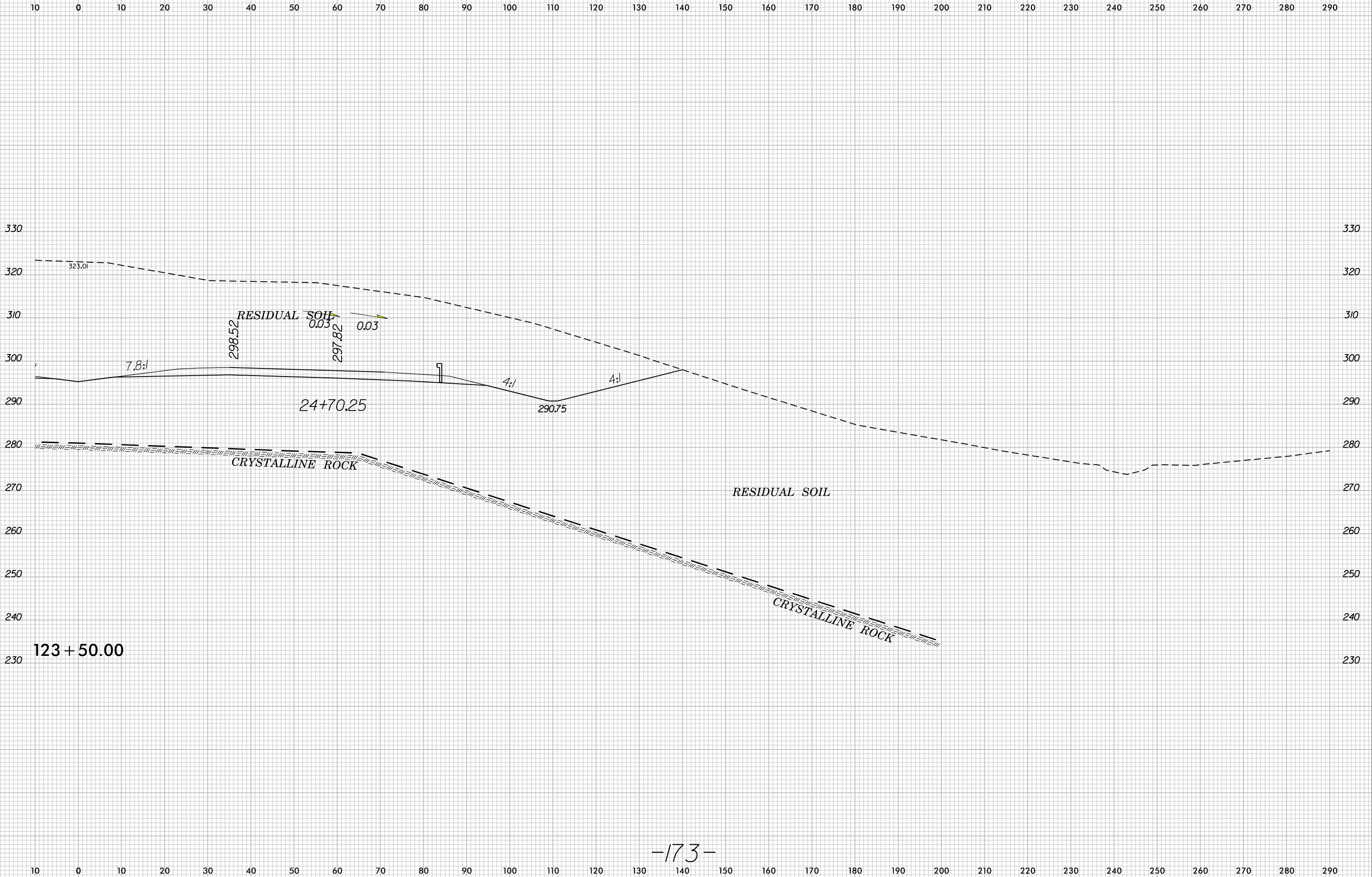
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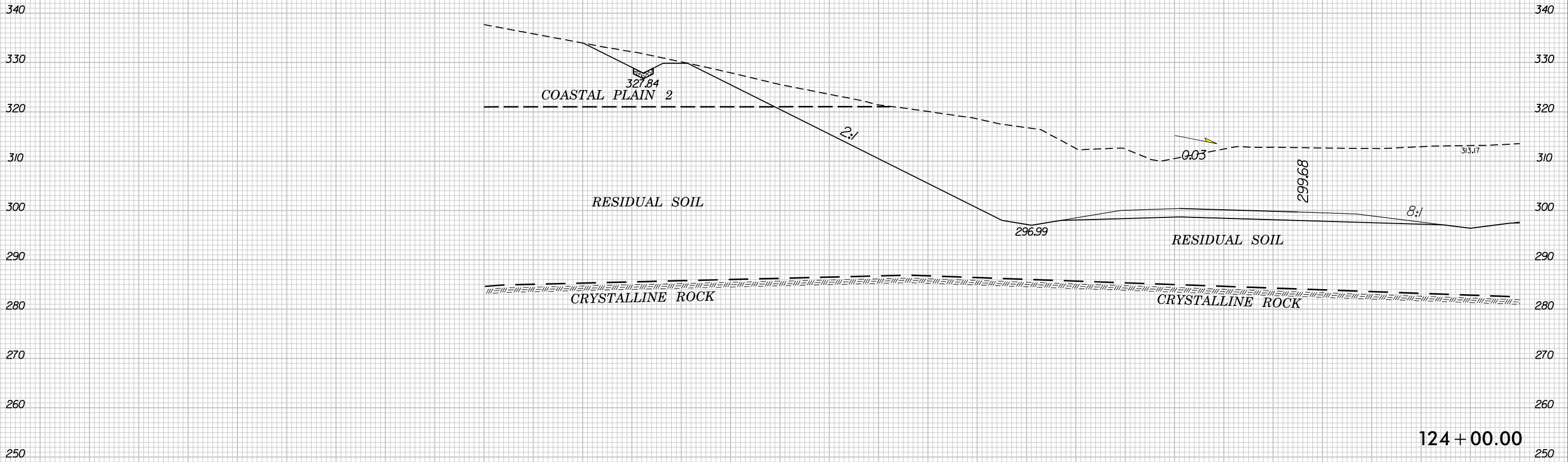
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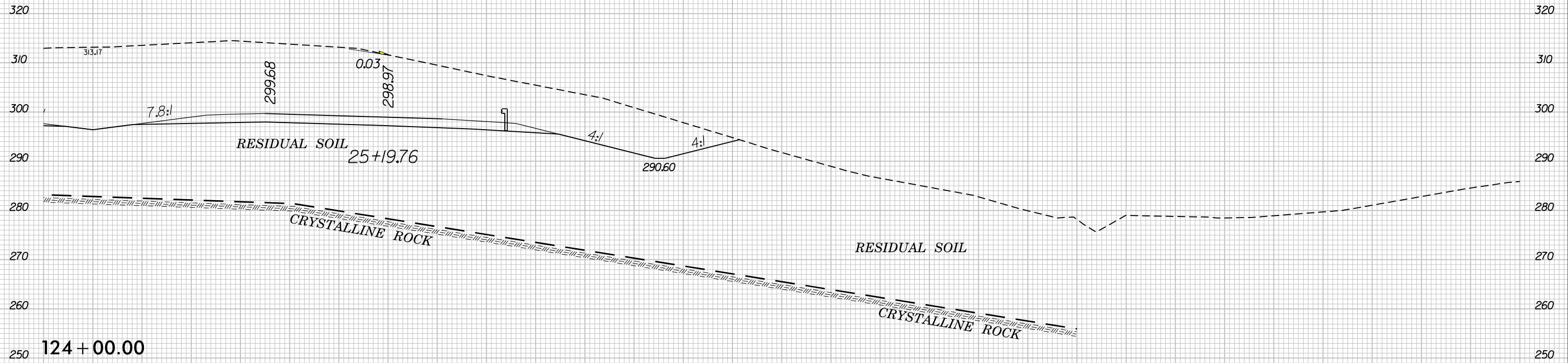
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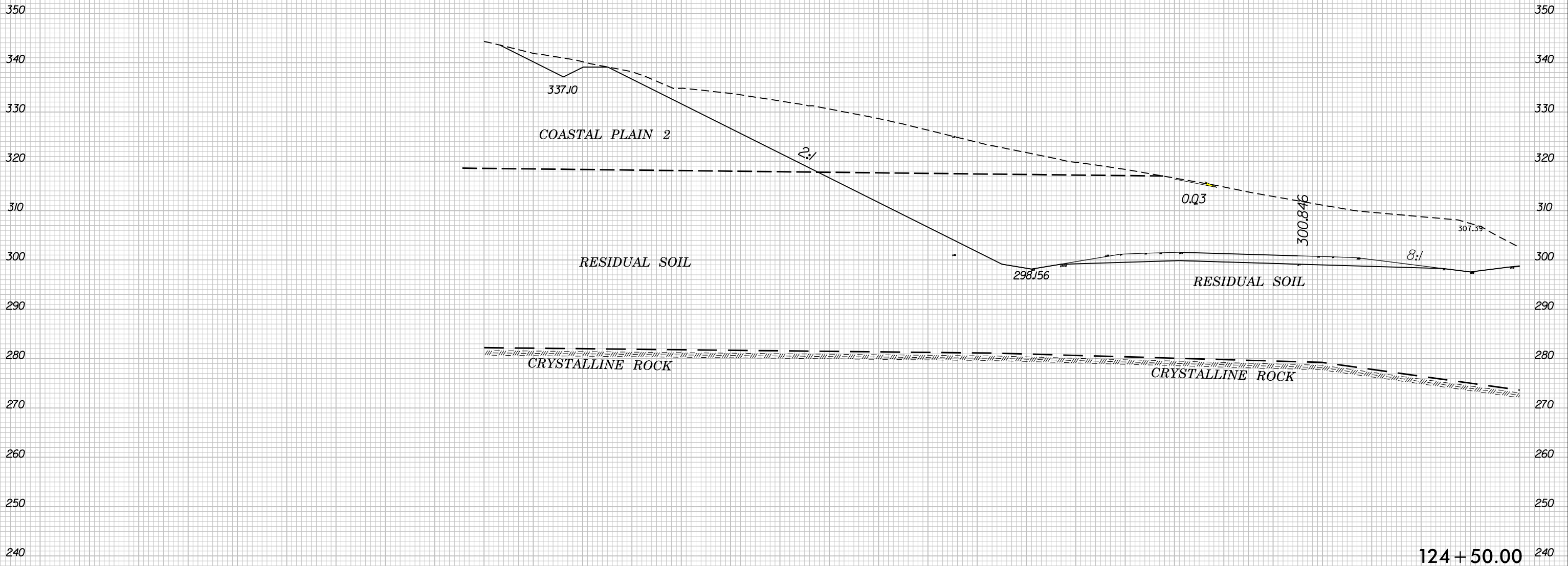


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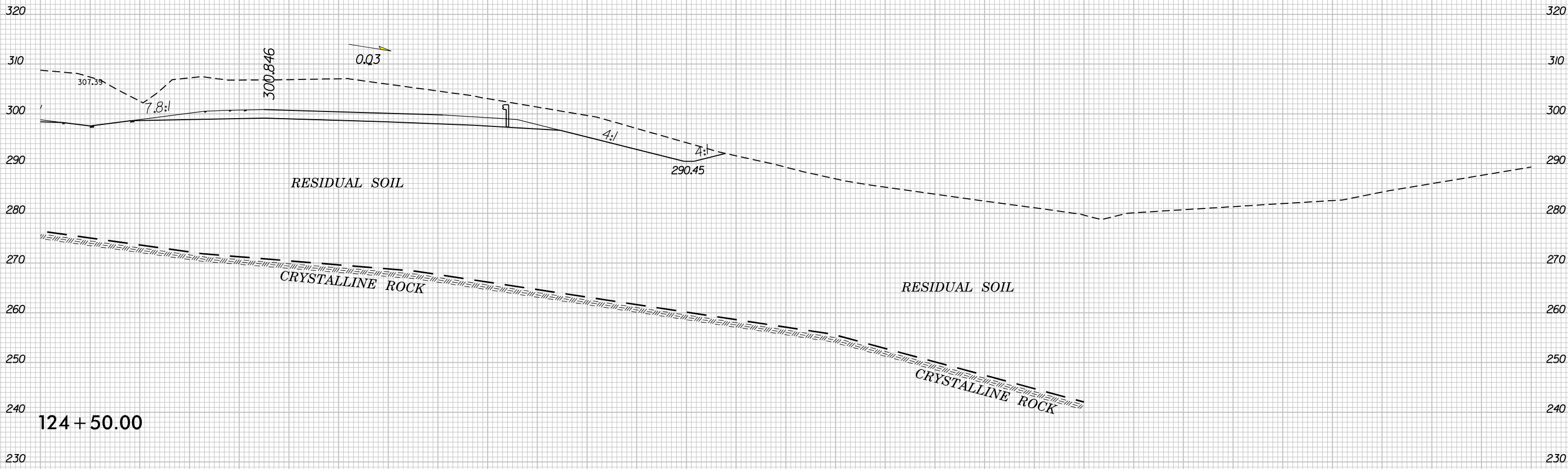


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290 280 270 260 250 240 230 220 210 200 190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10



10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290

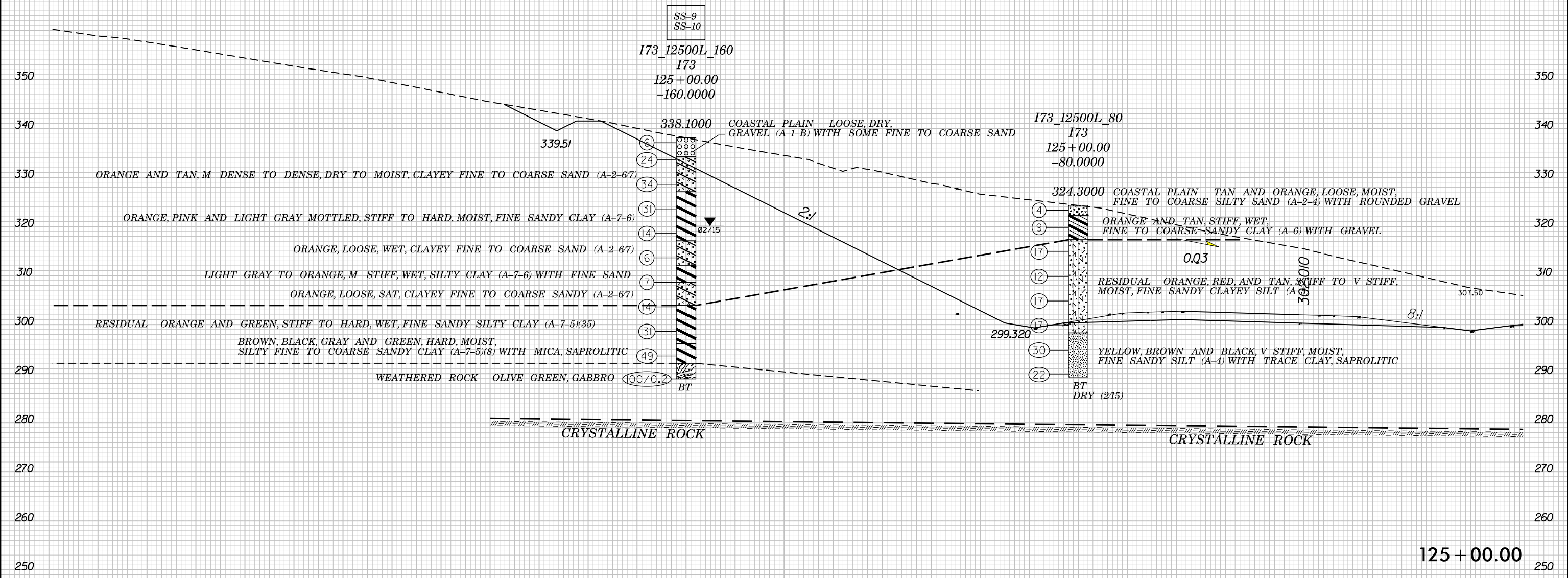


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290 280 270 260 250 240 230 220 210 200 190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10

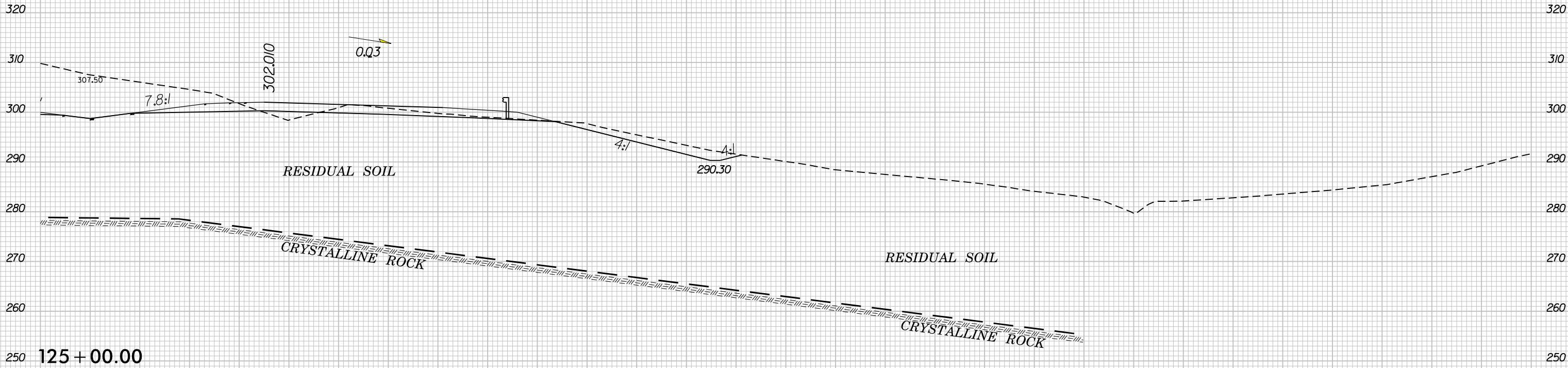
SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			MOISTURE	ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-9	160' LT	125+00	38.5-40.0	A-7-5 (35)	79	38	7	17.1	20.8	55.1	100	98	79.1	43.2	NT
SS-10	160' LT	125+00	43.5-45.0	A-7-5 (8)	62	19	16.4	42.3	29.3	12	100	96	49.2	30.5	NT



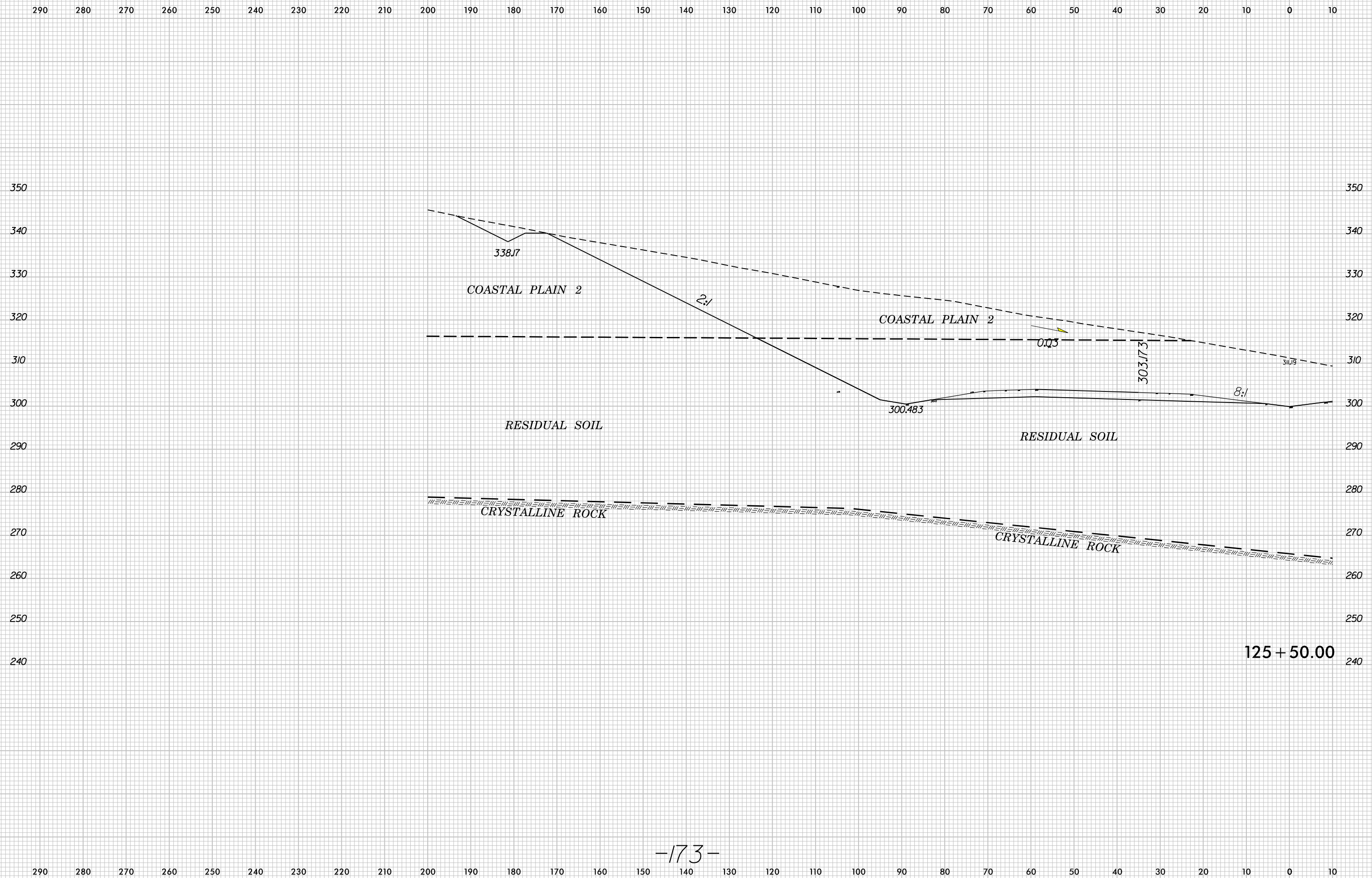
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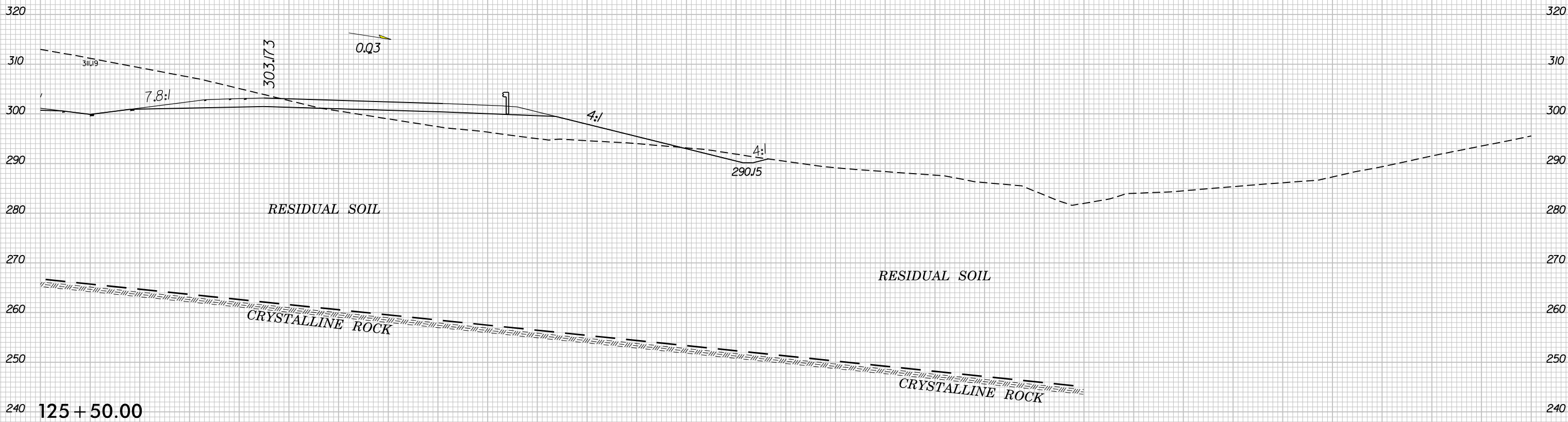
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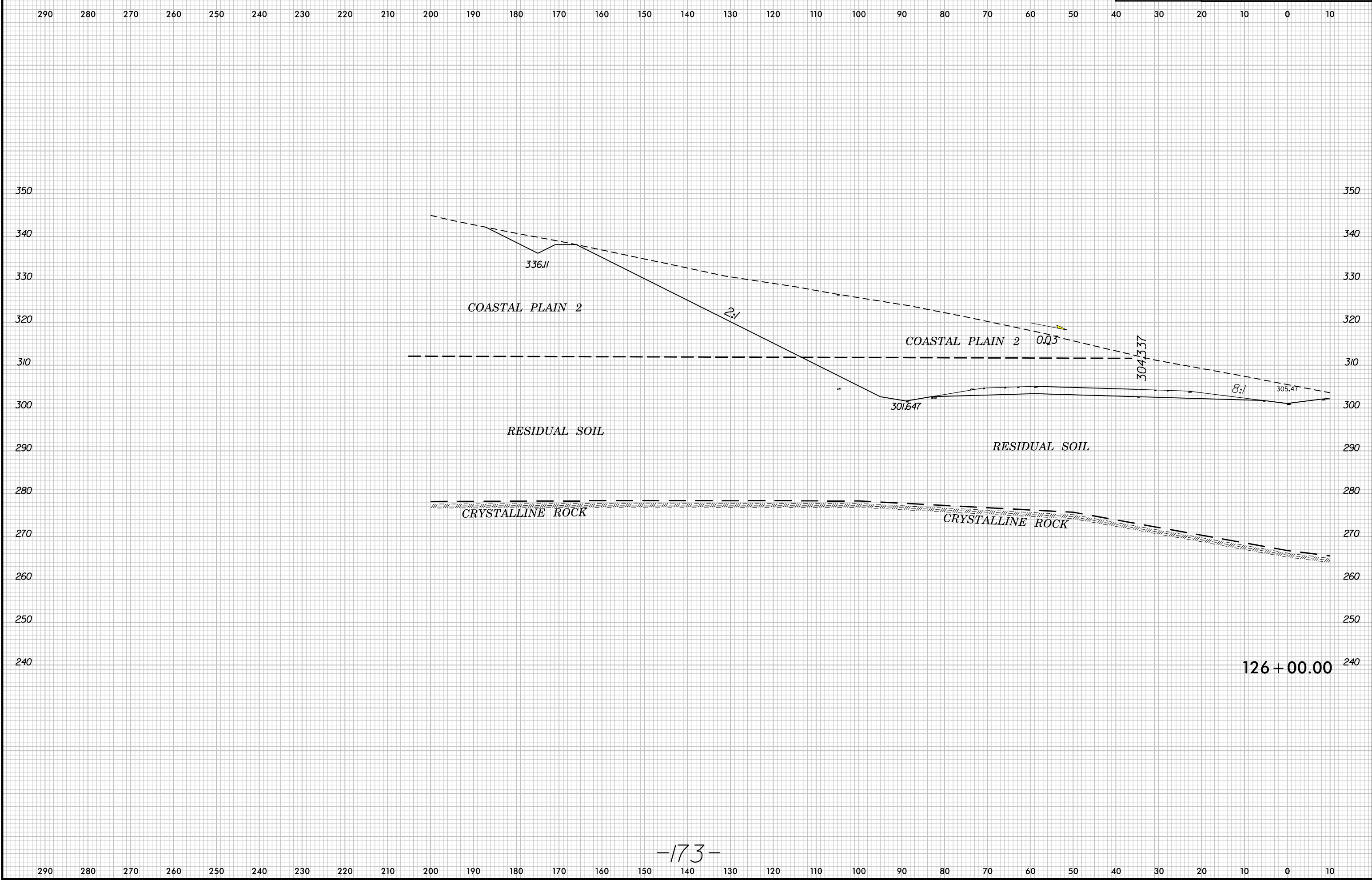
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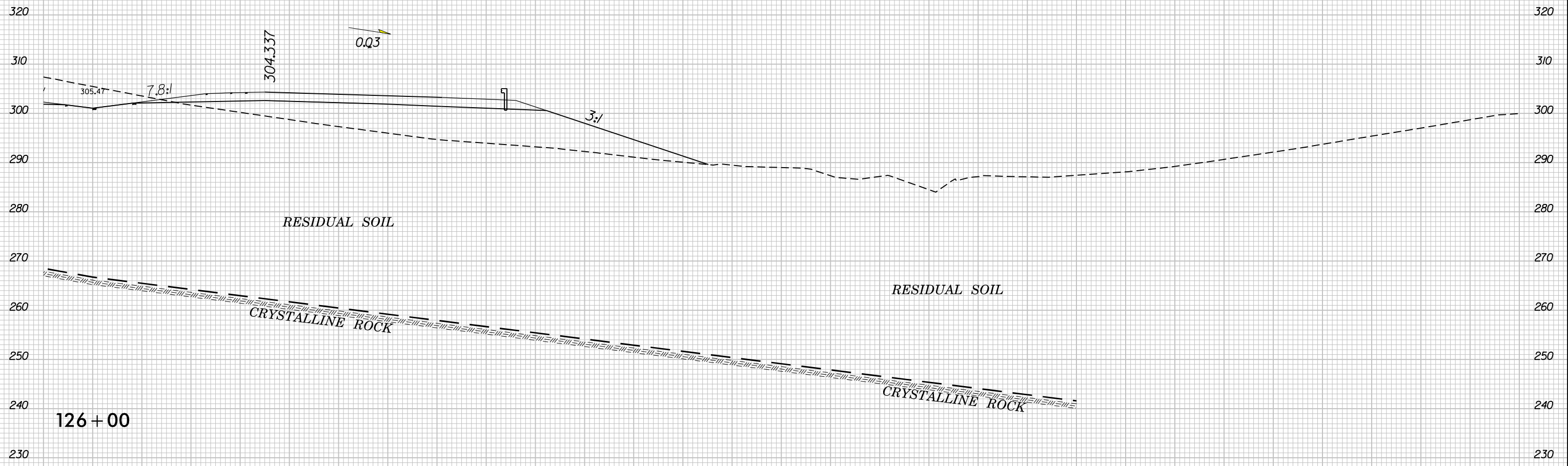


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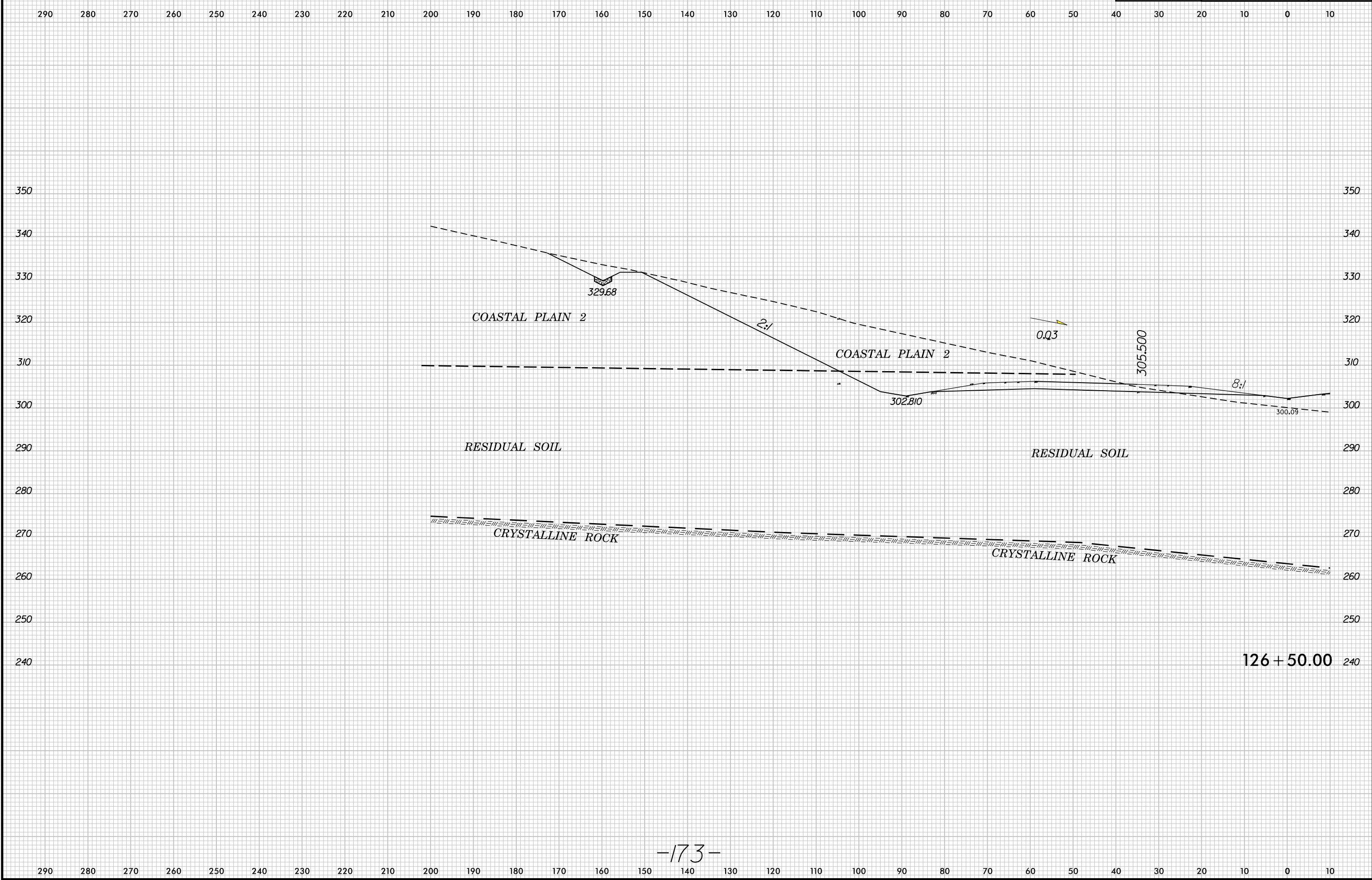
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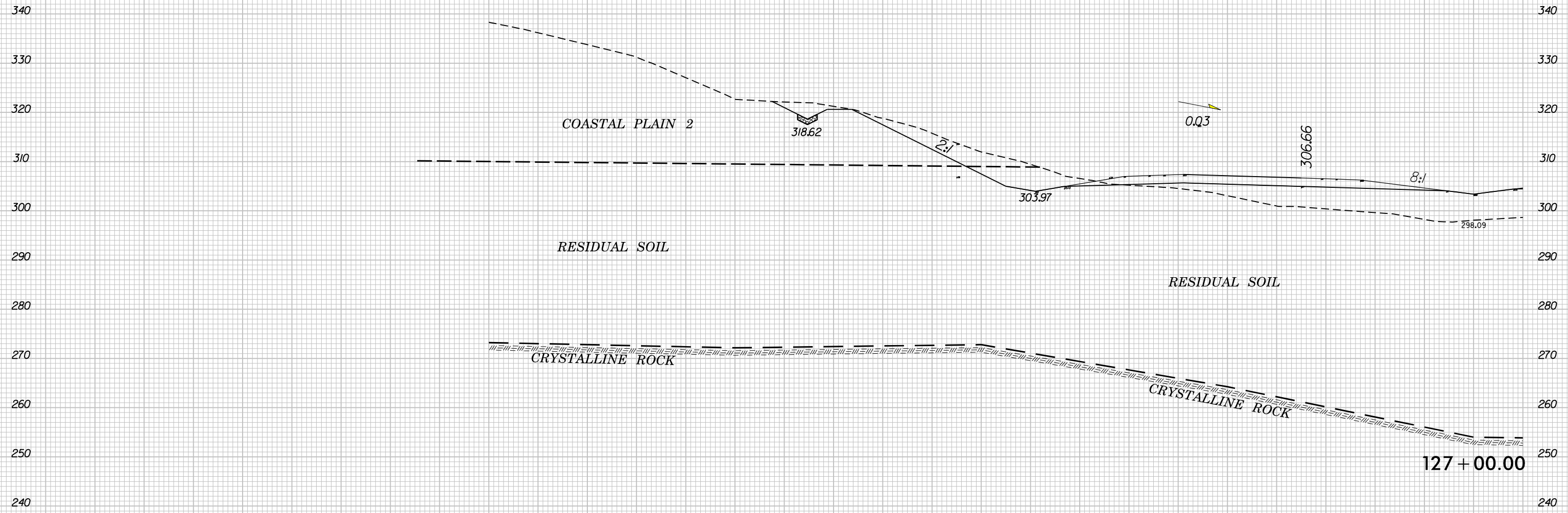


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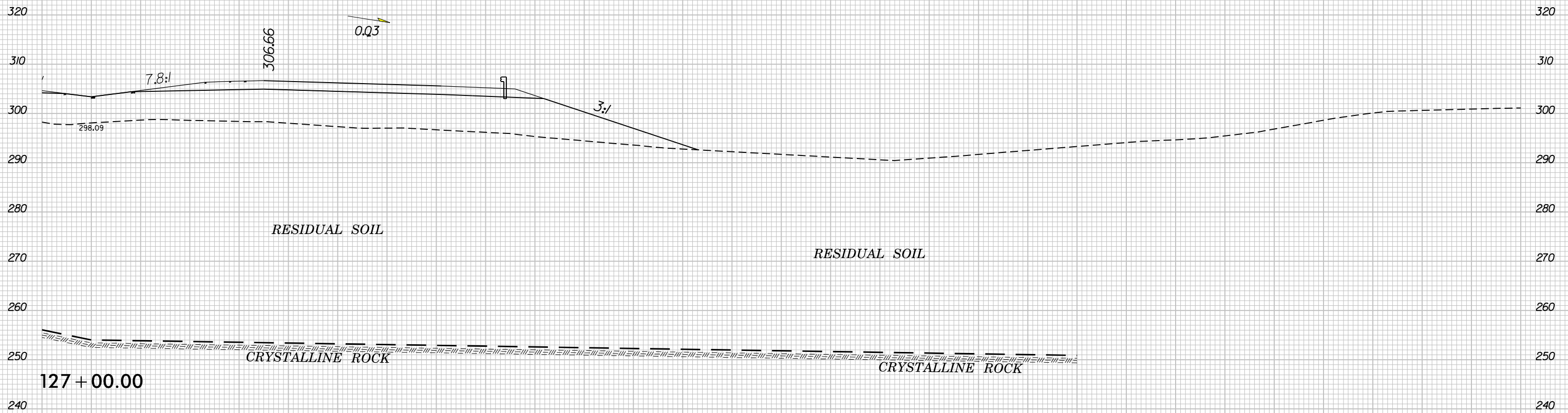
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PROJ. REFERENCE NO.
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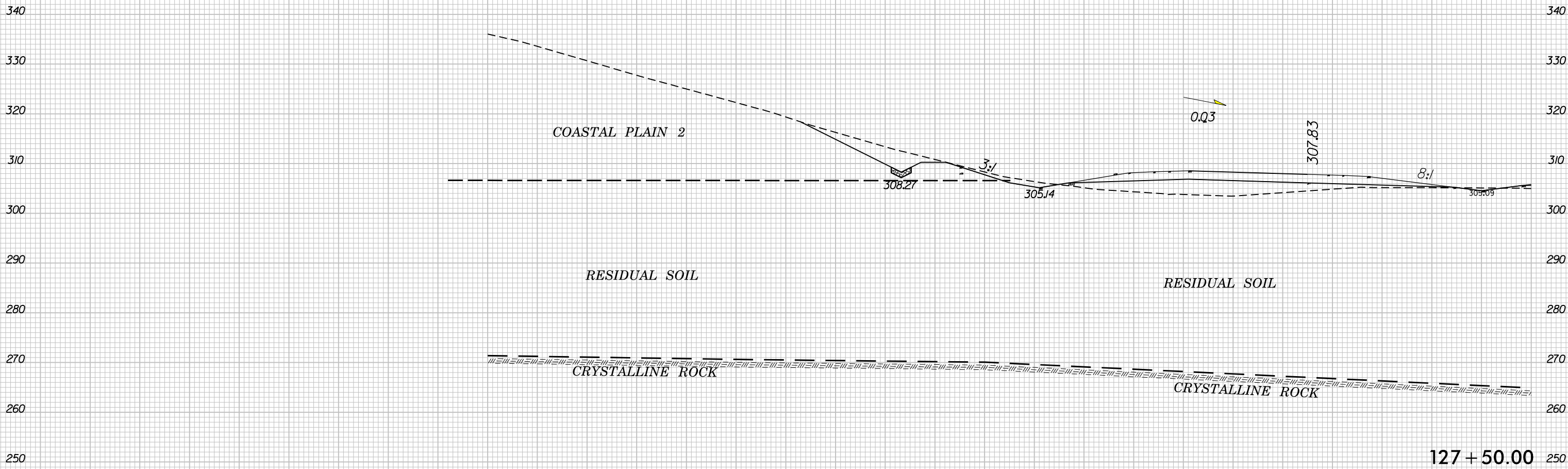
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274

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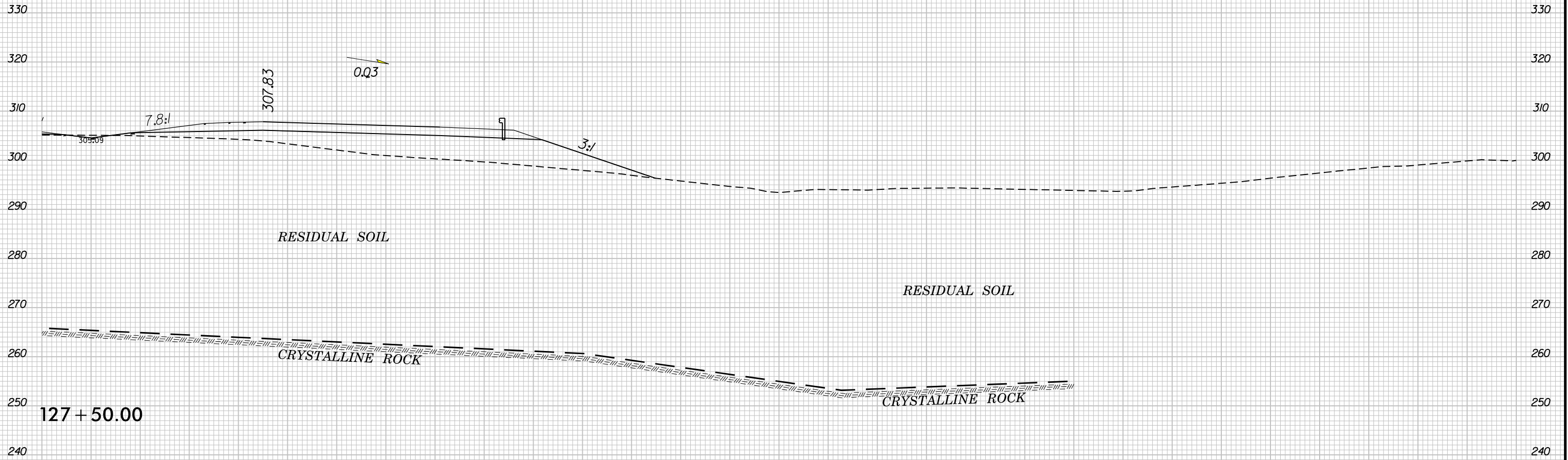
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276

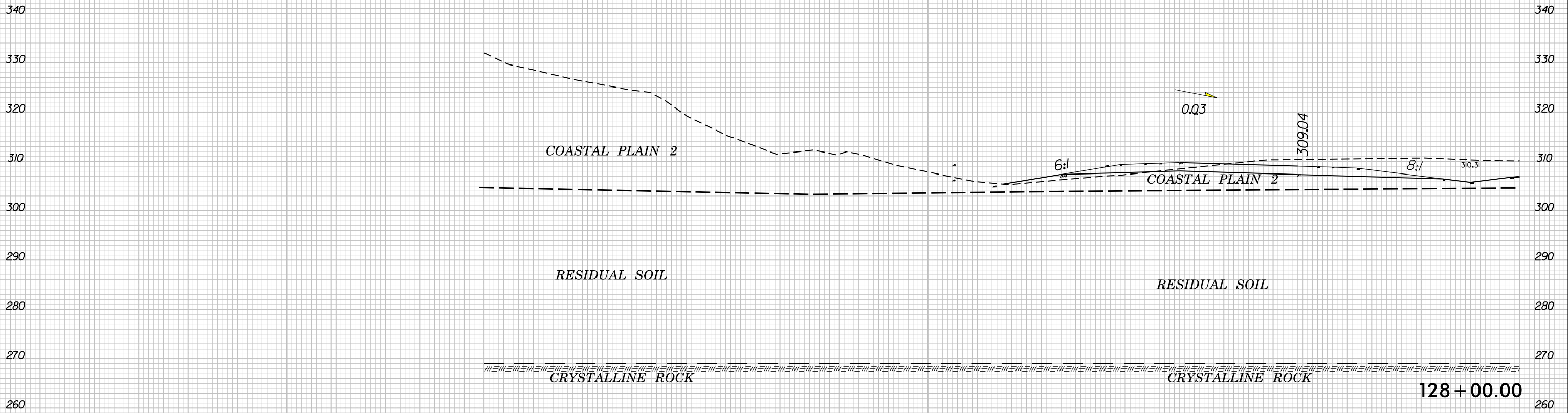
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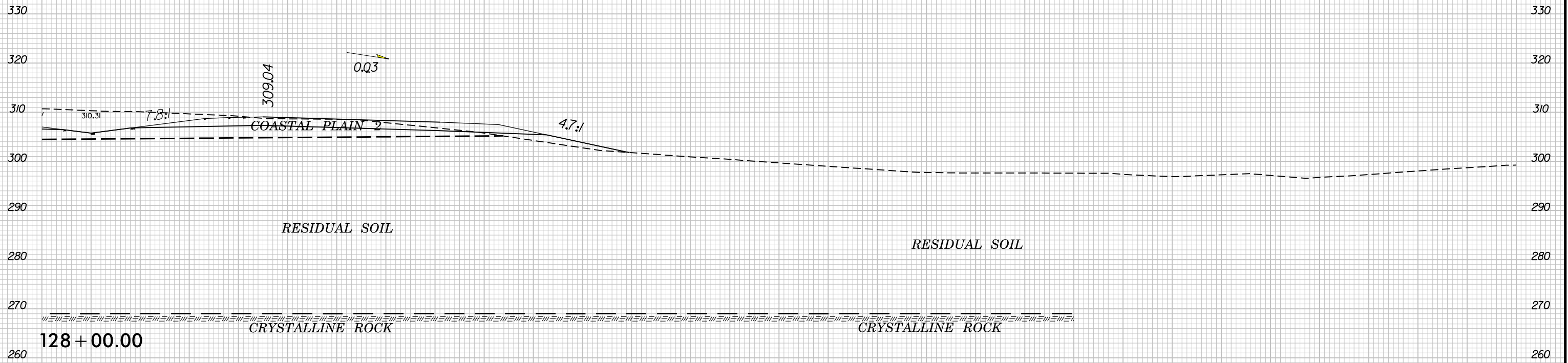
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SHEET NO.
278

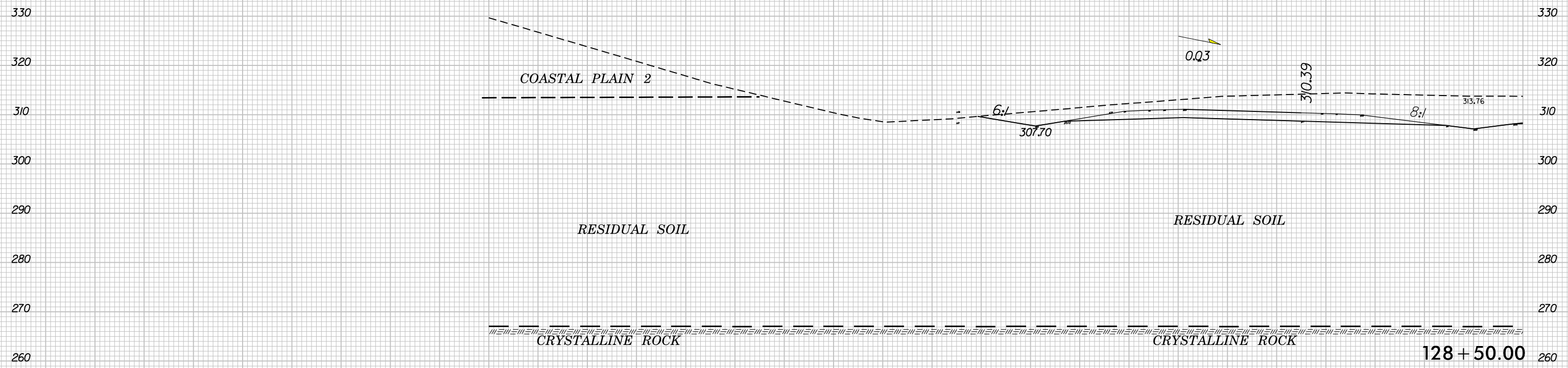
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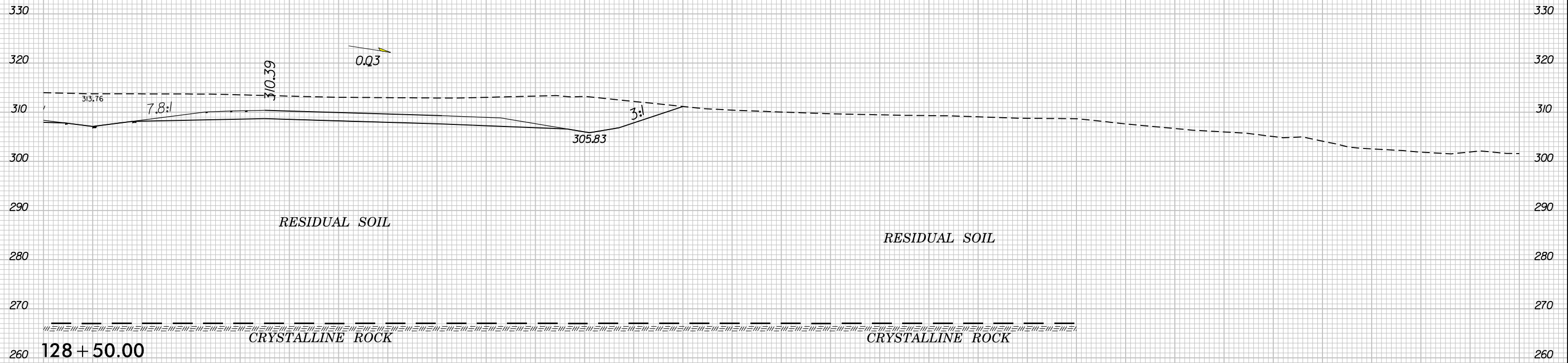
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280

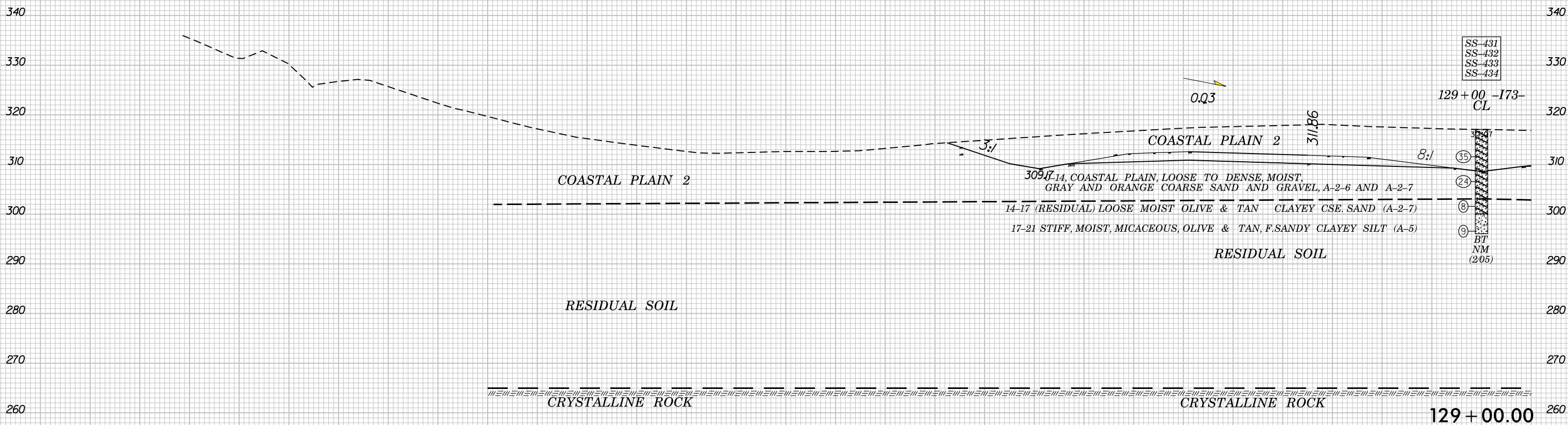
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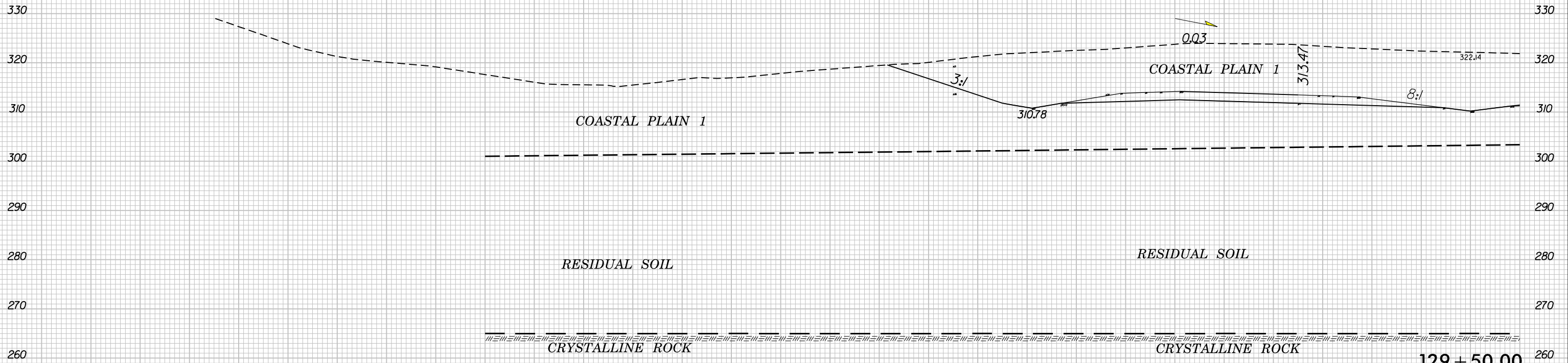
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SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-431	CL	129+00	4.50-5.00	A-2-6(1)	40	19	49.0	19.7	8.0	23.3	82	54	27	-	-
SS-432	CL	129+00	9.50-11.00	A-2-7(3)	53	33	56.4	13.8	4.5	25.3	95	56	30	-	-
SS-433	CL	129+00	14.50-16.00	A-2-7(1)	54	31	57.0	14.9	4.8	23.3	73	43	21	-	-
SS-434	CL	129+00	19.50-21.00	A-5(11)	77	NP	4.9	20.3	32.3	42.6	100	100	79	-	-



290 280 270 260 250 240 230 220 210 200 190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10



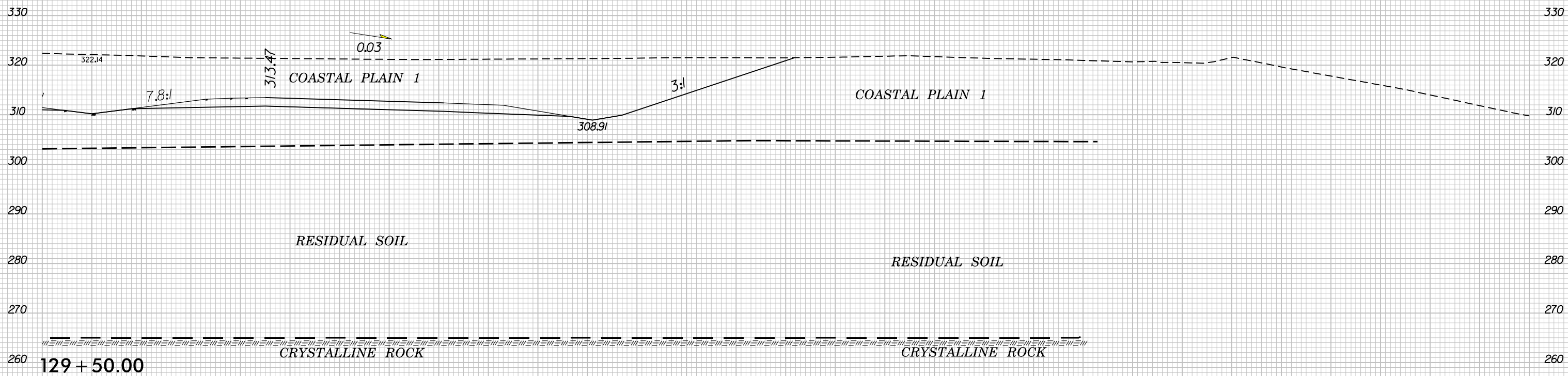
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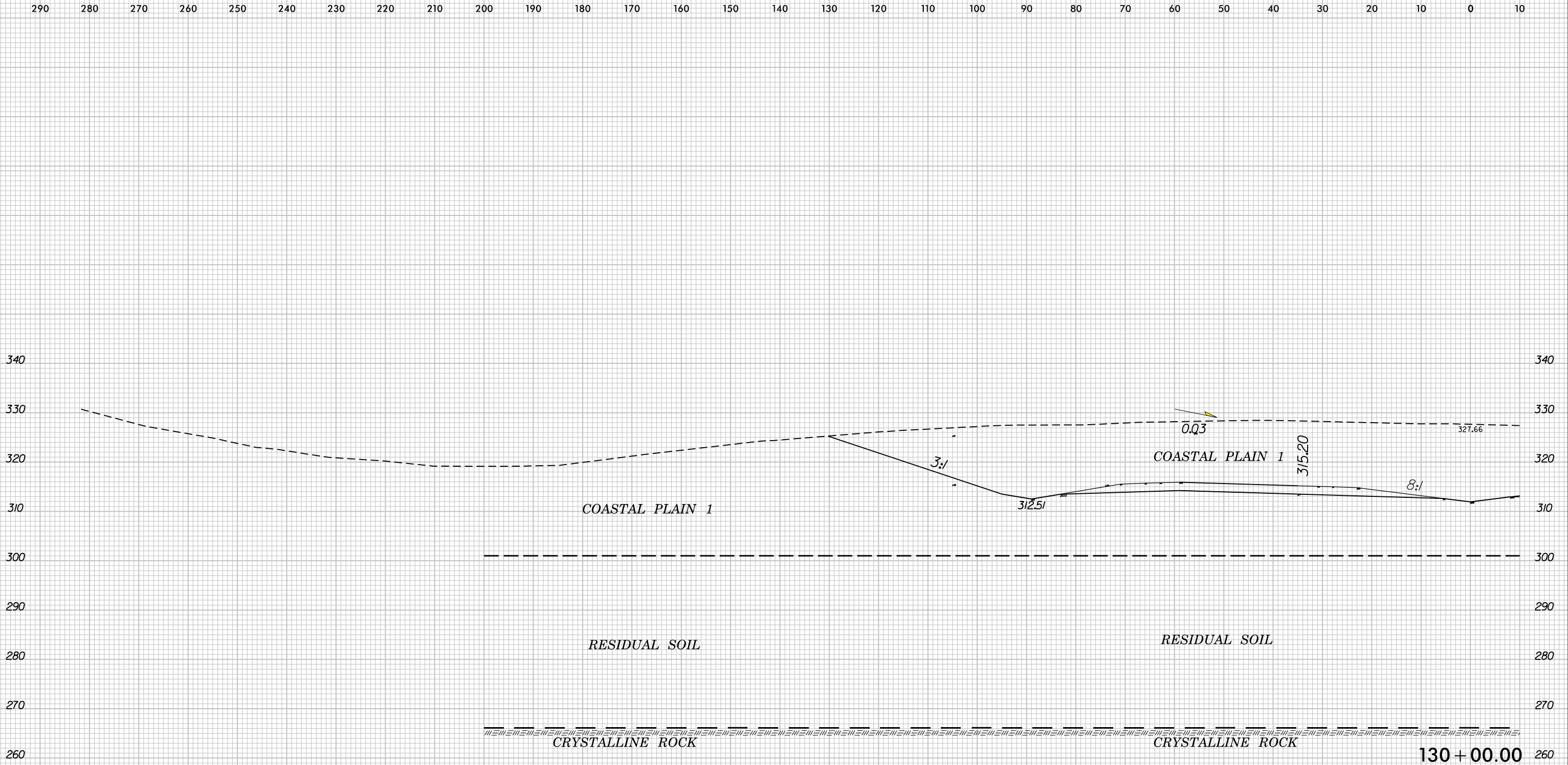
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R-3421A

SHEET NO.
284

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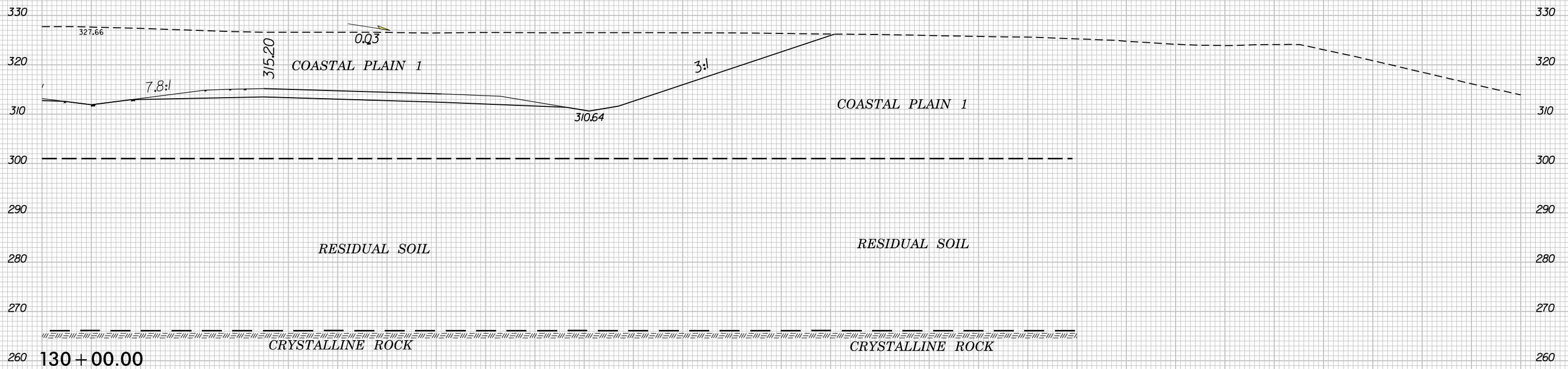
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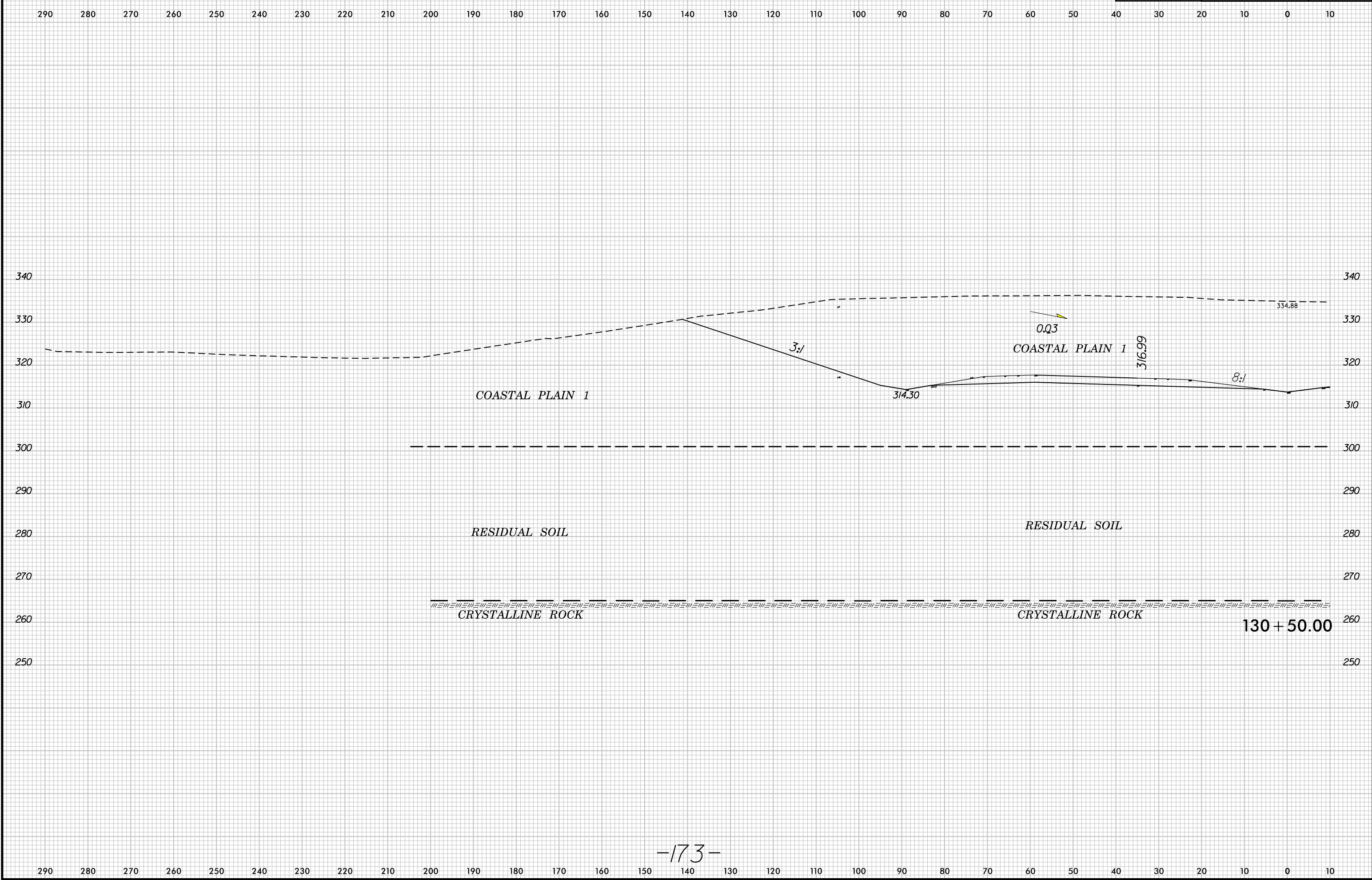
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286

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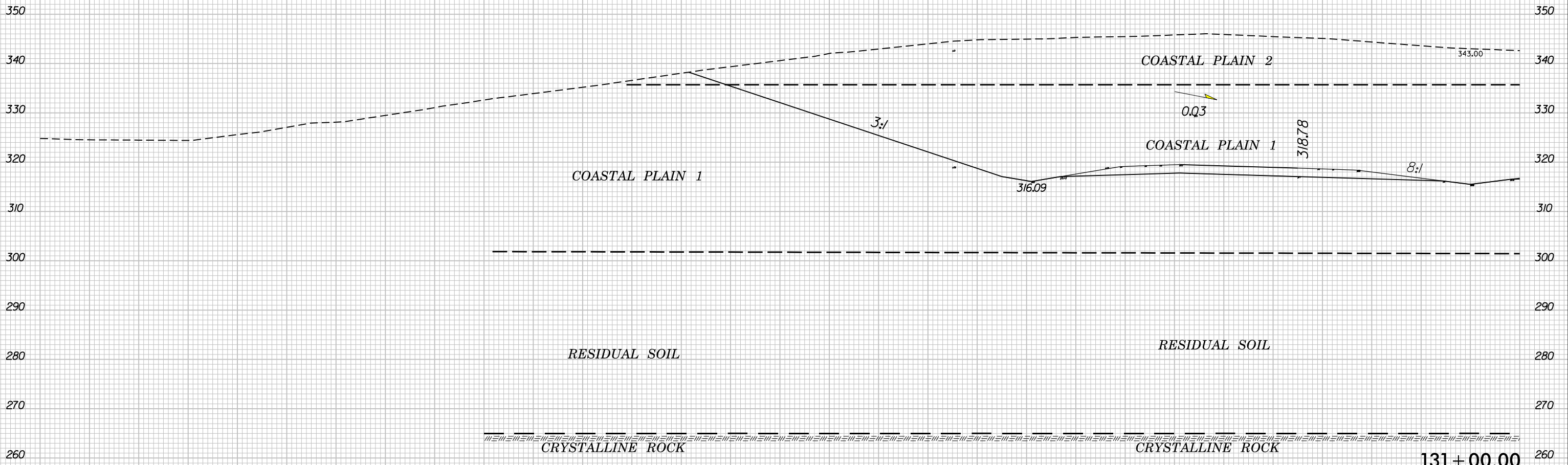


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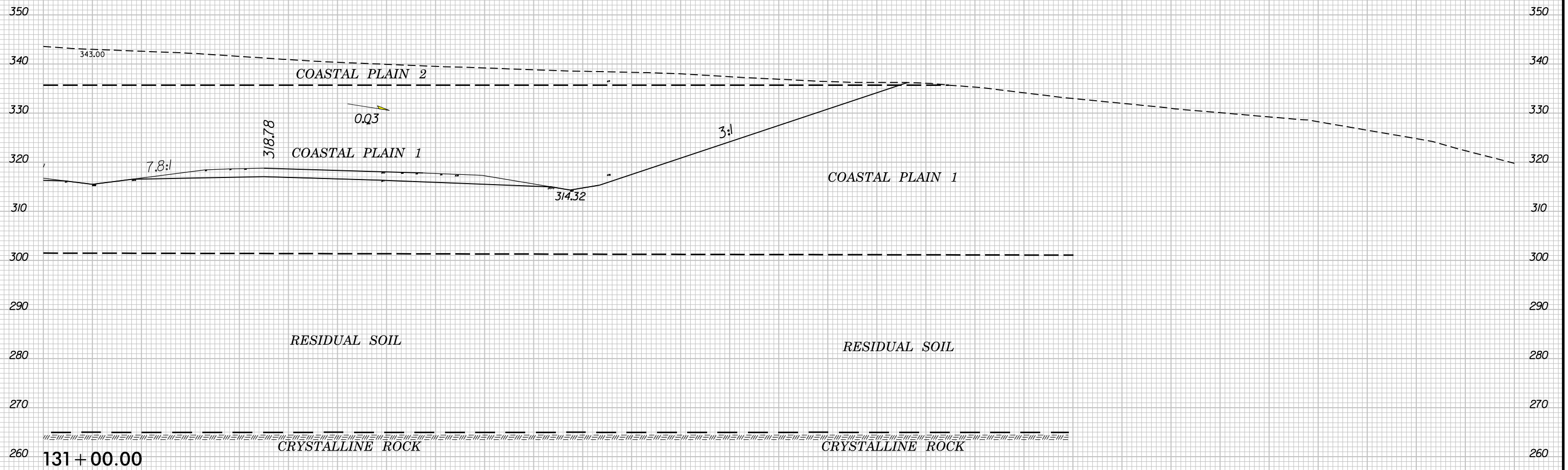
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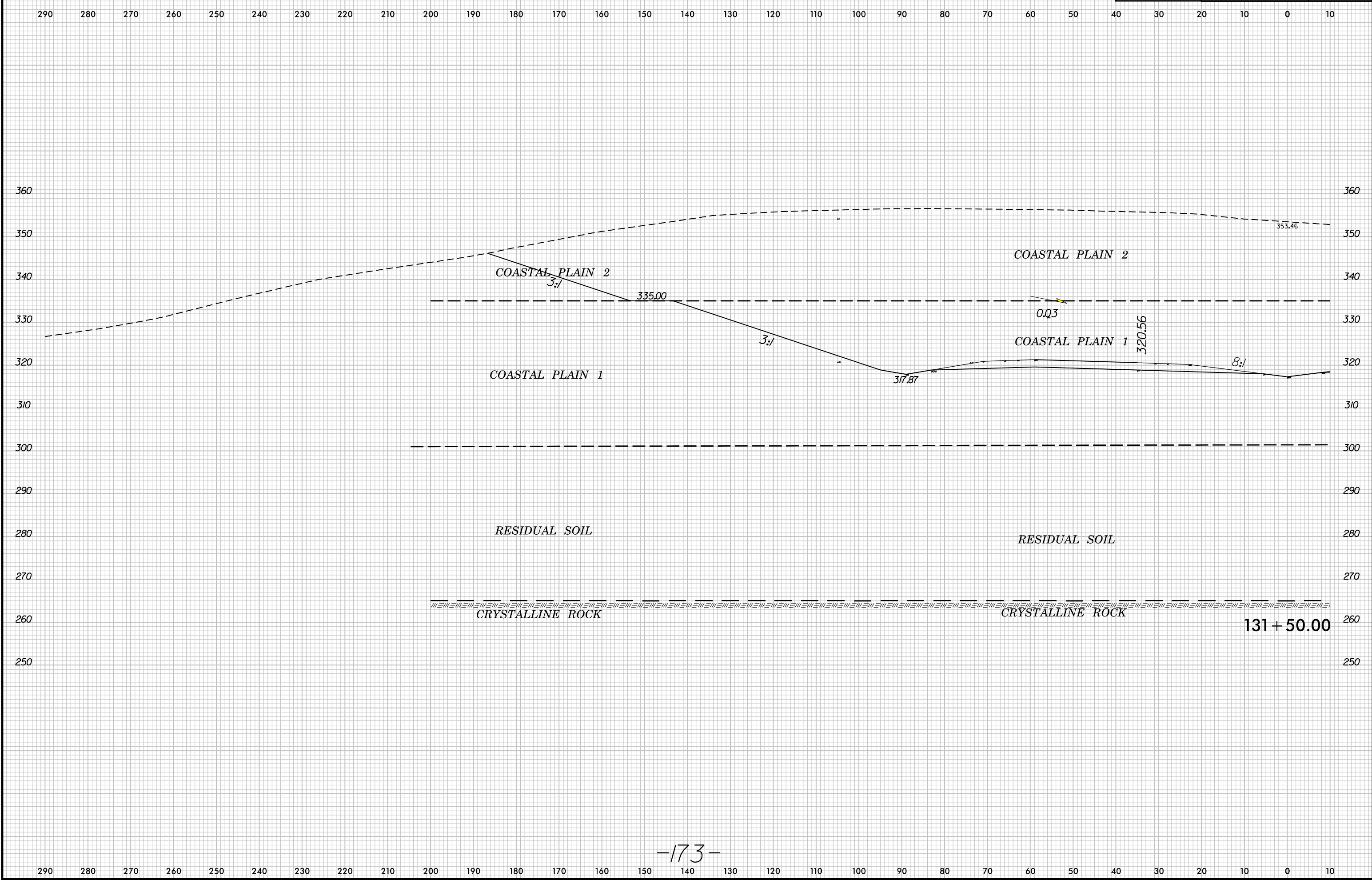
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290

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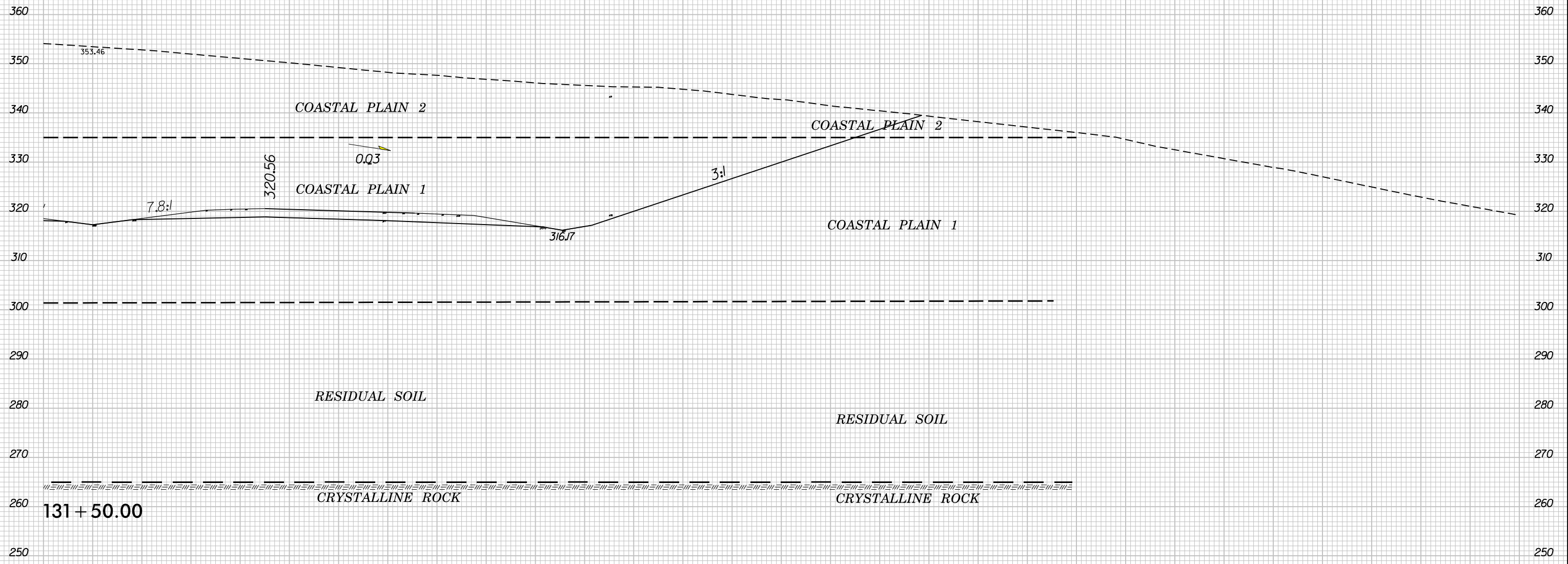
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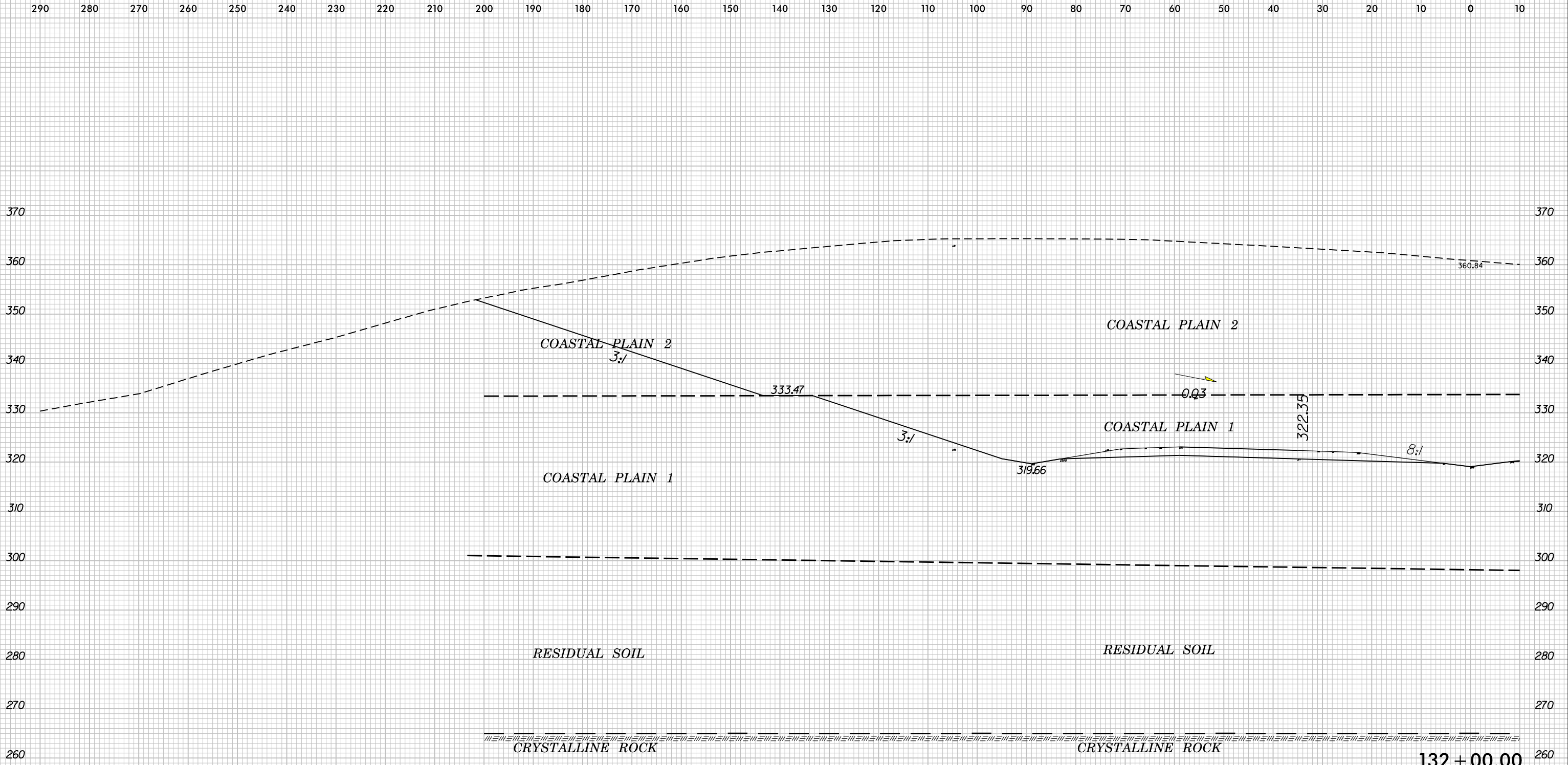
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292

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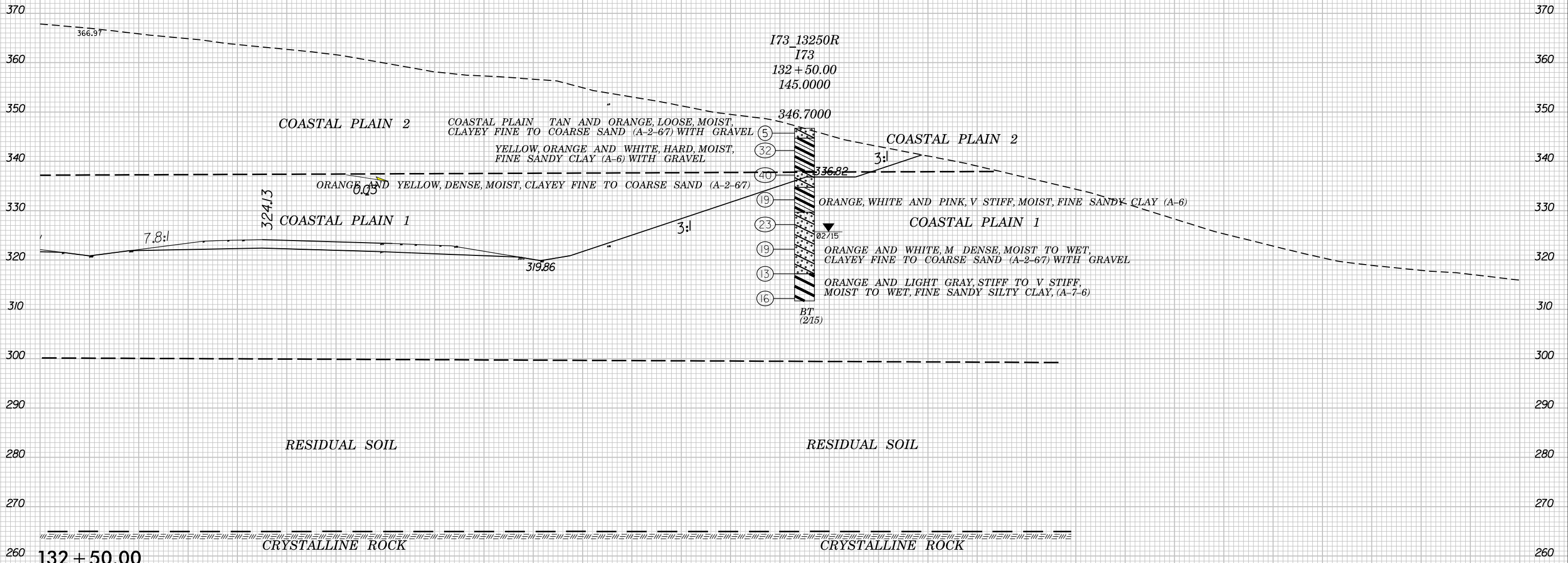
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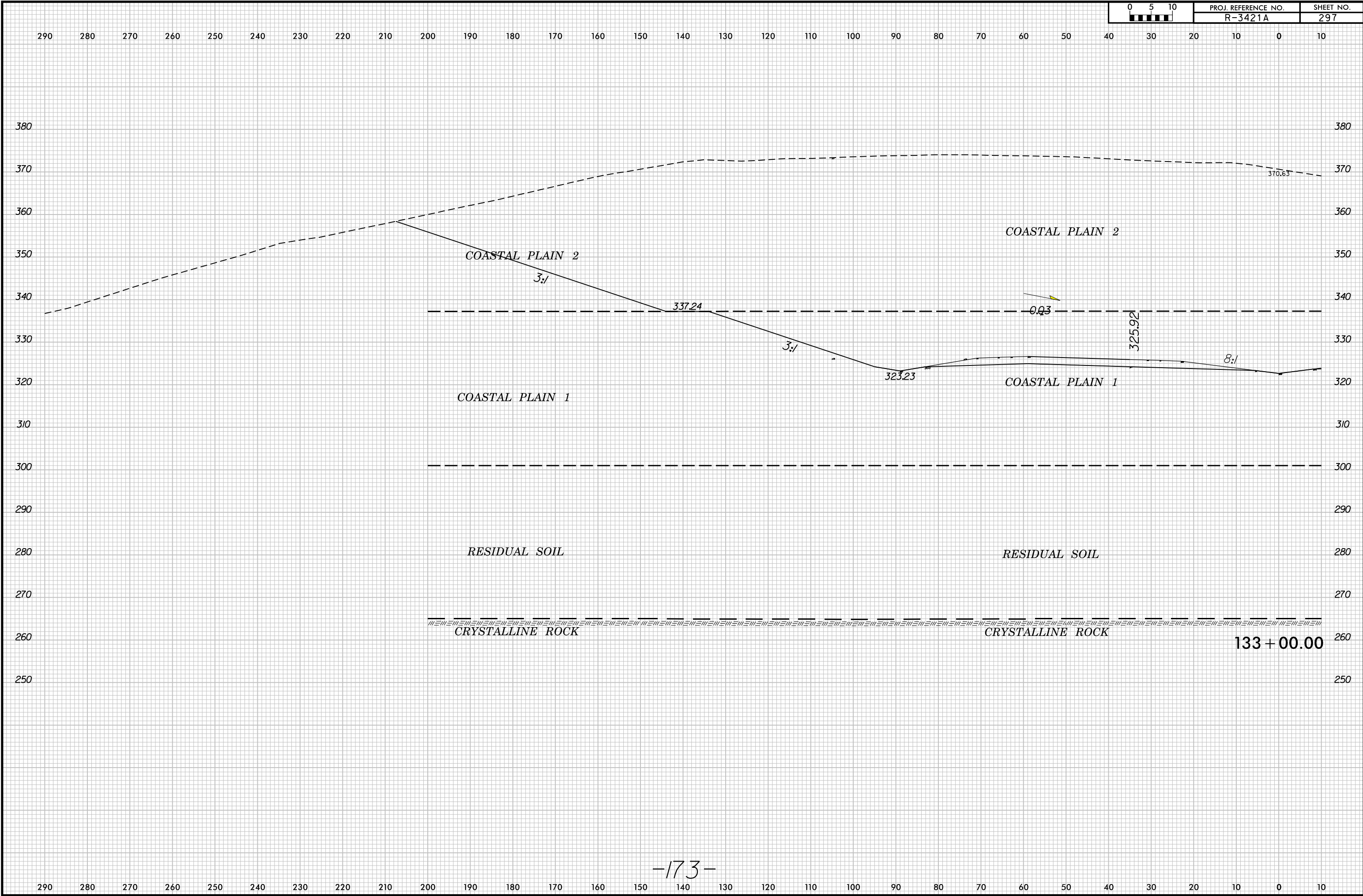
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132 + 50.00

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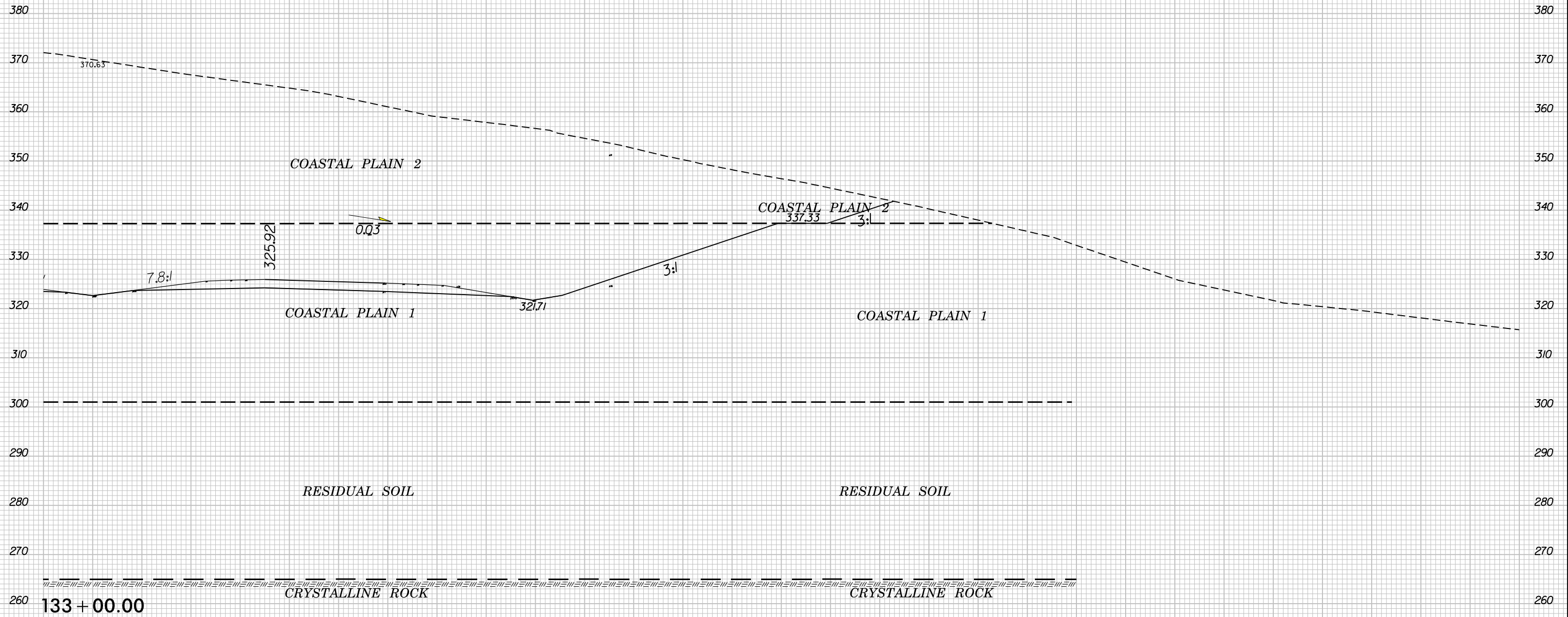
8/23/99



PROJ. REFERENCE NO.
R-3421A

SHEET NO.
298

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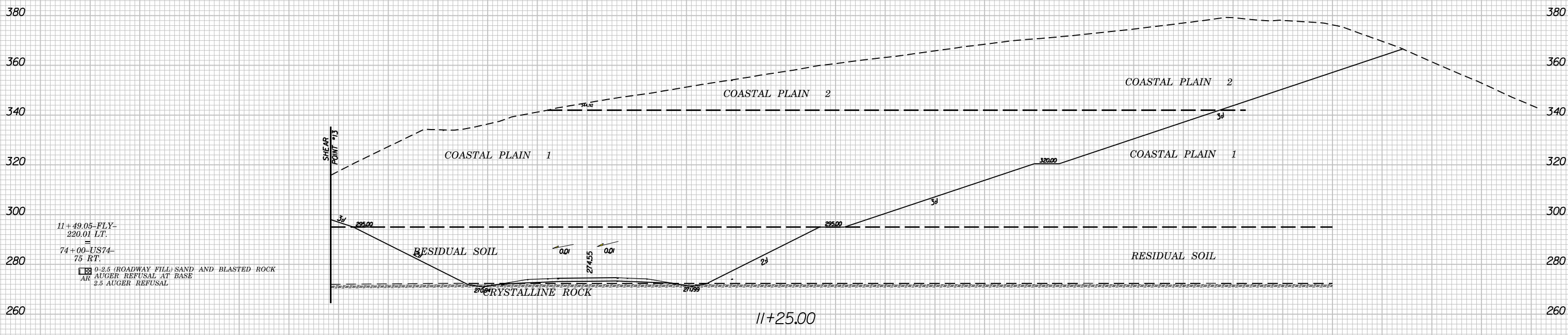
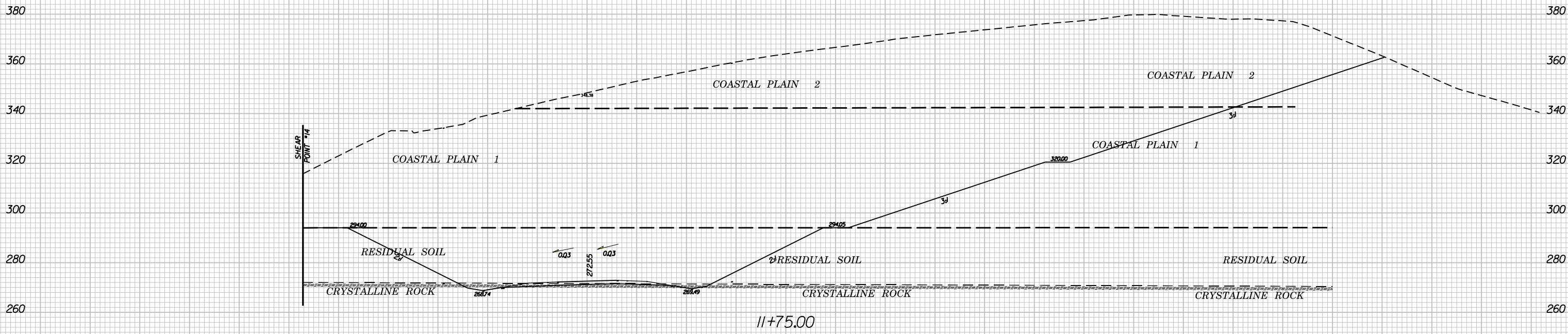


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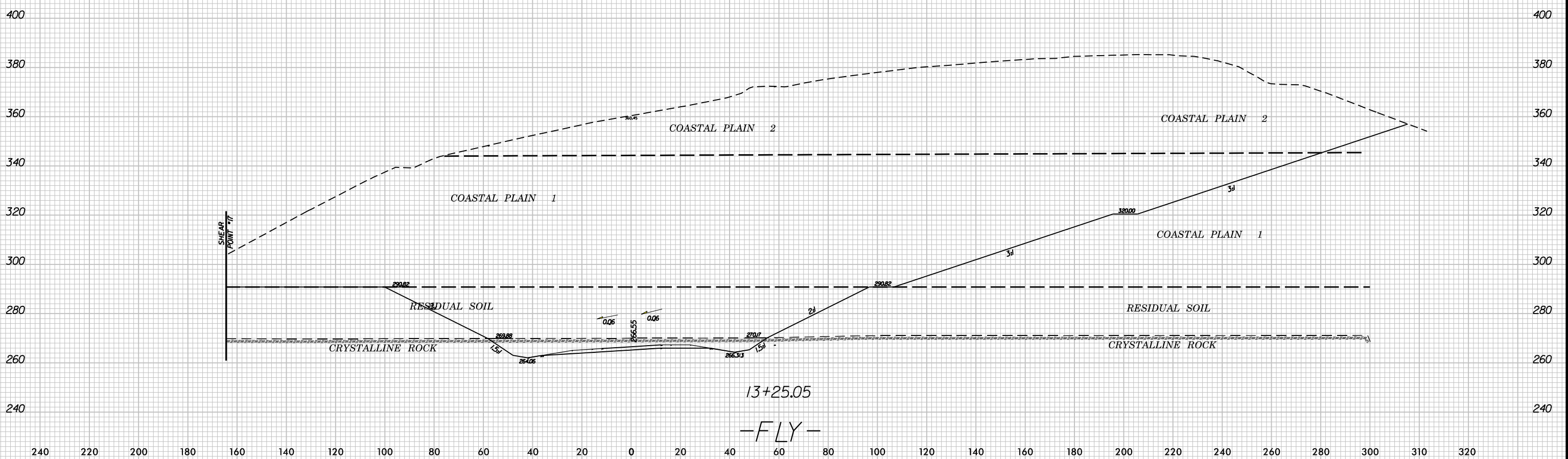
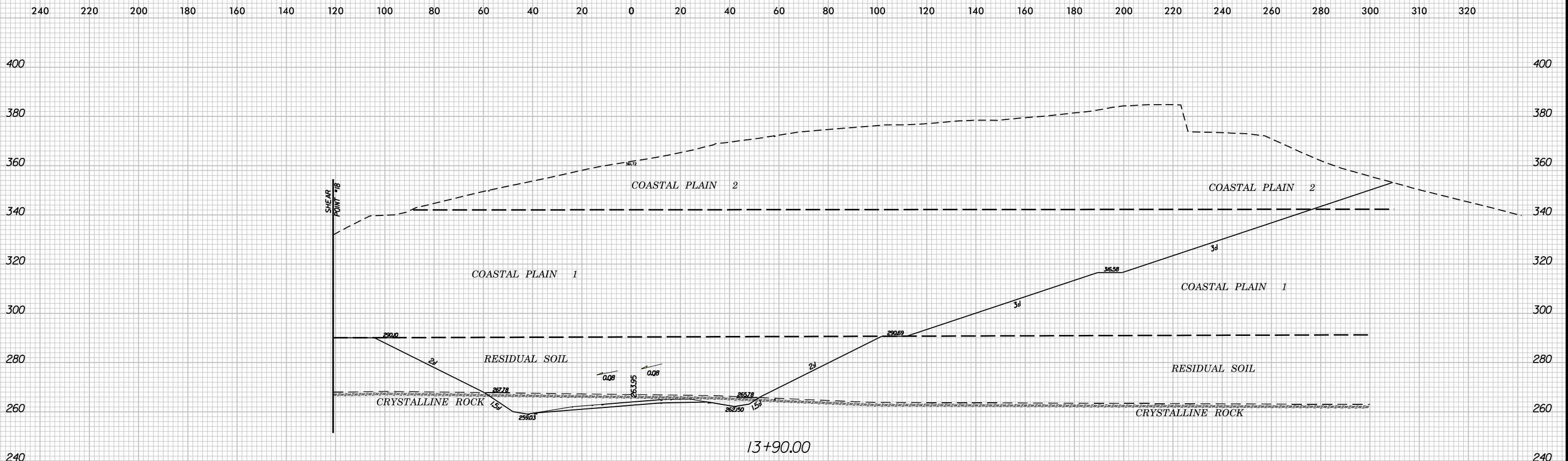
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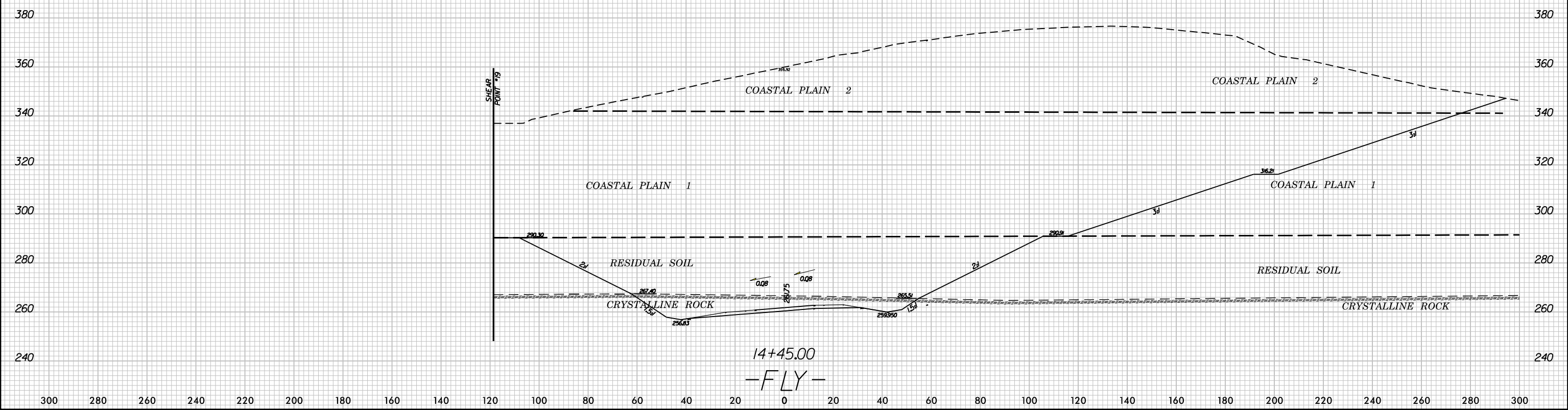
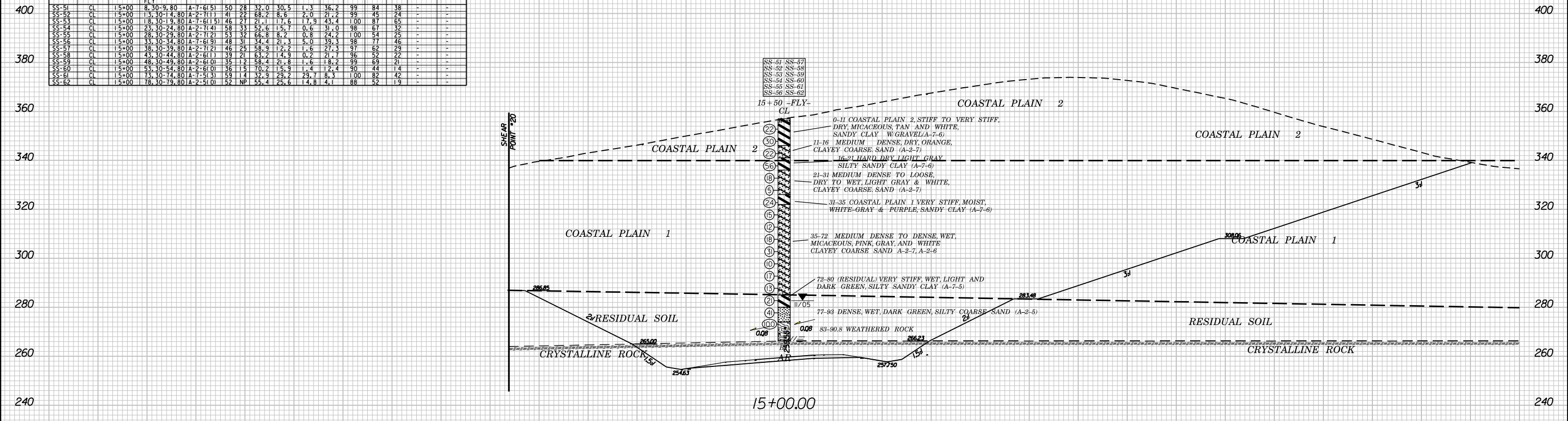
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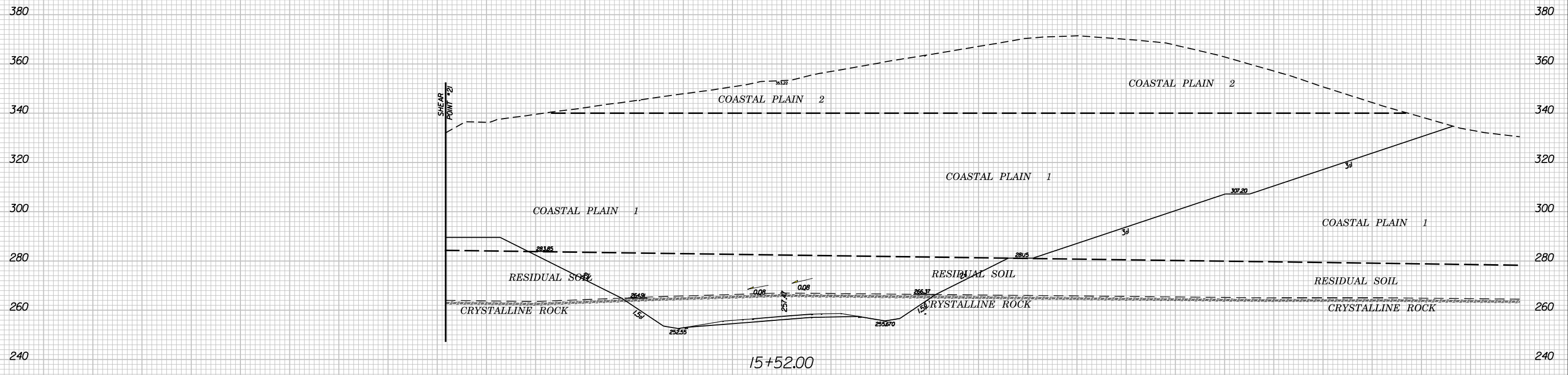
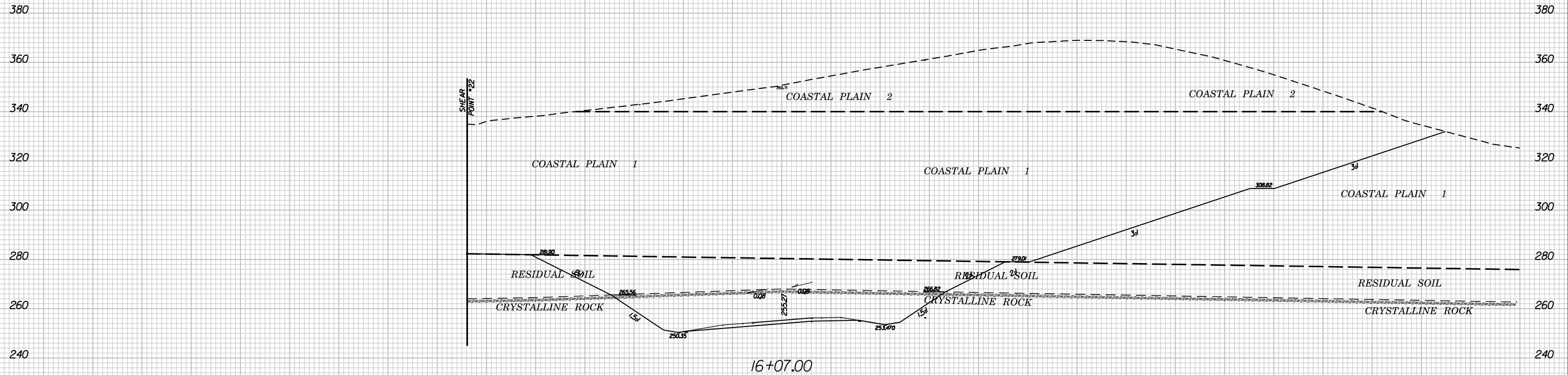
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SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS	LL	PI	% BY WEIGHT				% PASSING (SIEVES)			MOISTURE	ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-51	CL	15+00	8.30-9.80	A-7-6(1.5)	50	28	32.0	30.5	1.3	36.2	99	84	38	-	-
SS-52	CL	15+00	13.30-14.80	A-2-7(1.1)	41	22	68.2	8.6	2.0	21.2	99	45	24	-	-
SS-53	CL	15+00	18.30-19.80	A-7-6(1.5)	46	21	21.1	17.6	17.9	43.4	100	87	65	-	-
SS-54	CL	15+00	23.30-24.80	A-2-7(1.4)	58	33	52.6	15.7	0.6	31.0	98	67	32	-	-
SS-55	CL	15+00	28.30-29.80	A-2-7(1.2)	53	32	66.8	8.2	0.8	24.2	100	54	25	-	-
SS-56	CL	15+00	33.30-34.80	A-7-6(1.9)	48	31	34.4	21.3	5.0	39.3	98	77	46	-	-
SS-57	CL	15+00	38.30-39.80	A-2-7(1.2)	46	25	58.3	12.2	1.6	27.3	97	62	29	-	-
SS-58	CL	15+00	43.30-44.80	A-2-6(1.1)	39	21	63.2	14.9	0.2	21.7	96	52	22	-	-
SS-59	CL	15+00	48.30-49.80	A-2-6(1.0)	35	12	58.4	21.8	1.6	18.2	99	69	21	-	-
SS-60	CL	15+00	53.30-54.80	A-2-6(1.0)	36	15	70.2	15.9	1.4	12.4	90	44	14	-	-
SS-61	CL	15+00	58.30-59.80	A-7-5(1.3)	59	14	37.9	29.2	23.7	8.3	100	82	42	-	-
SS-62	CL	15+00	68.30-69.80	A-2-5(1.0)	52	NP	55.4	25.6	14.8	4.1	88	52	19	-	-

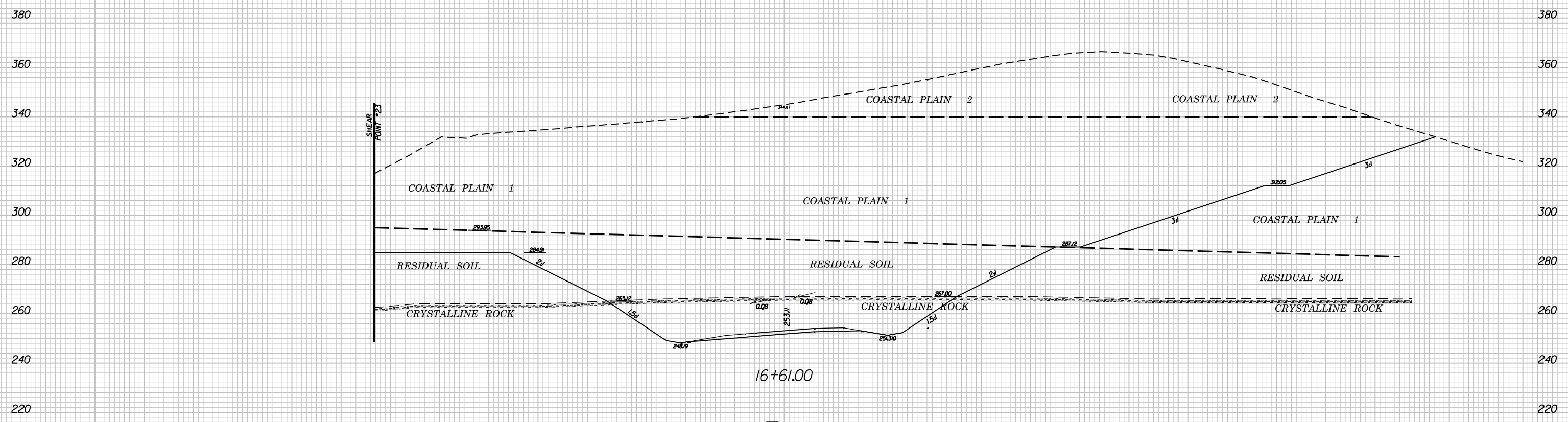
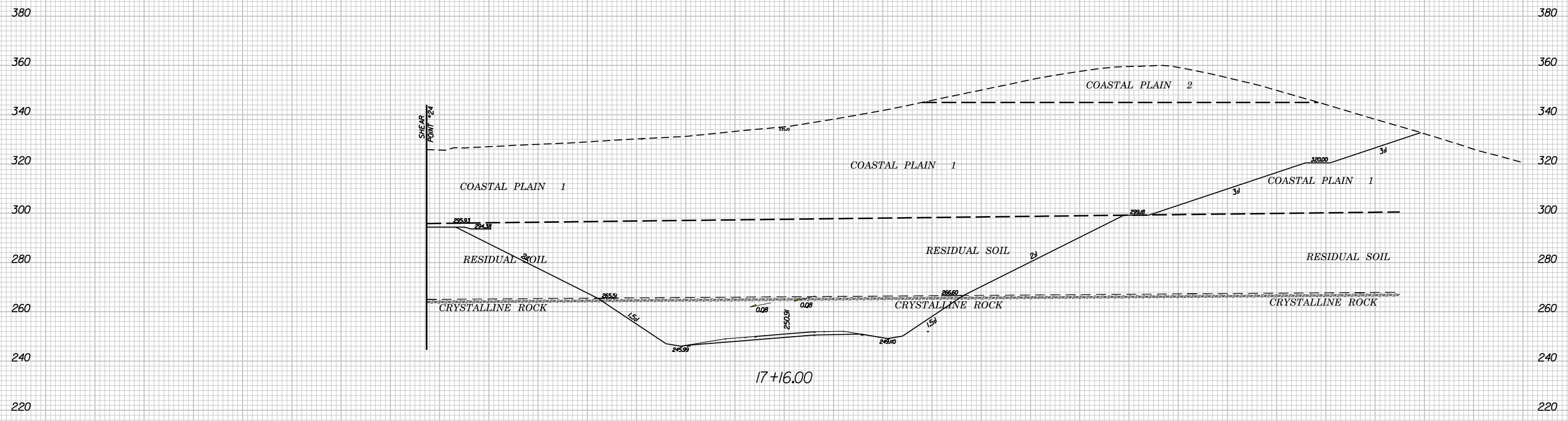


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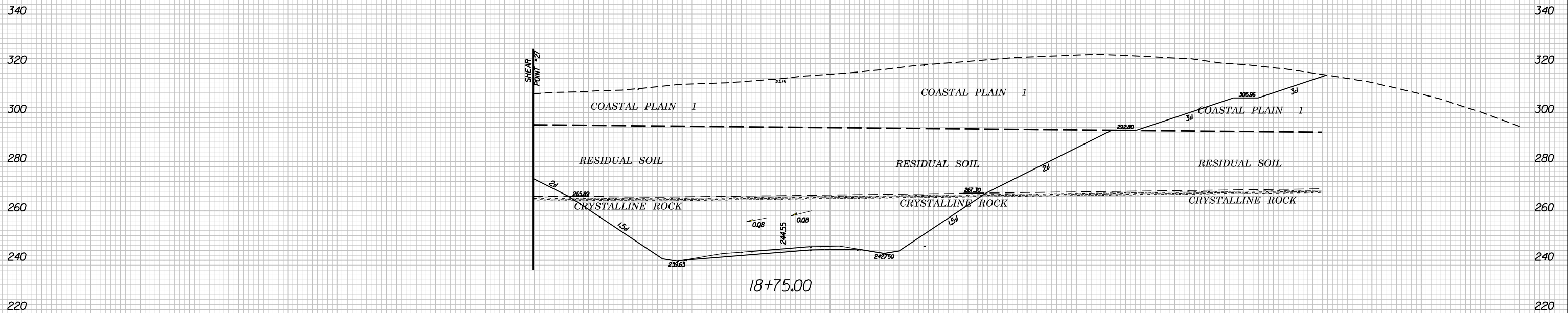
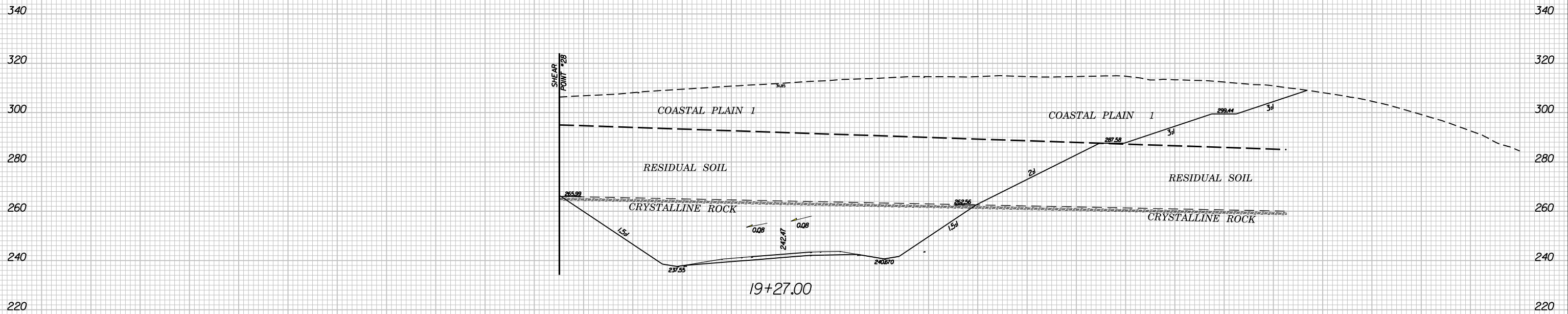
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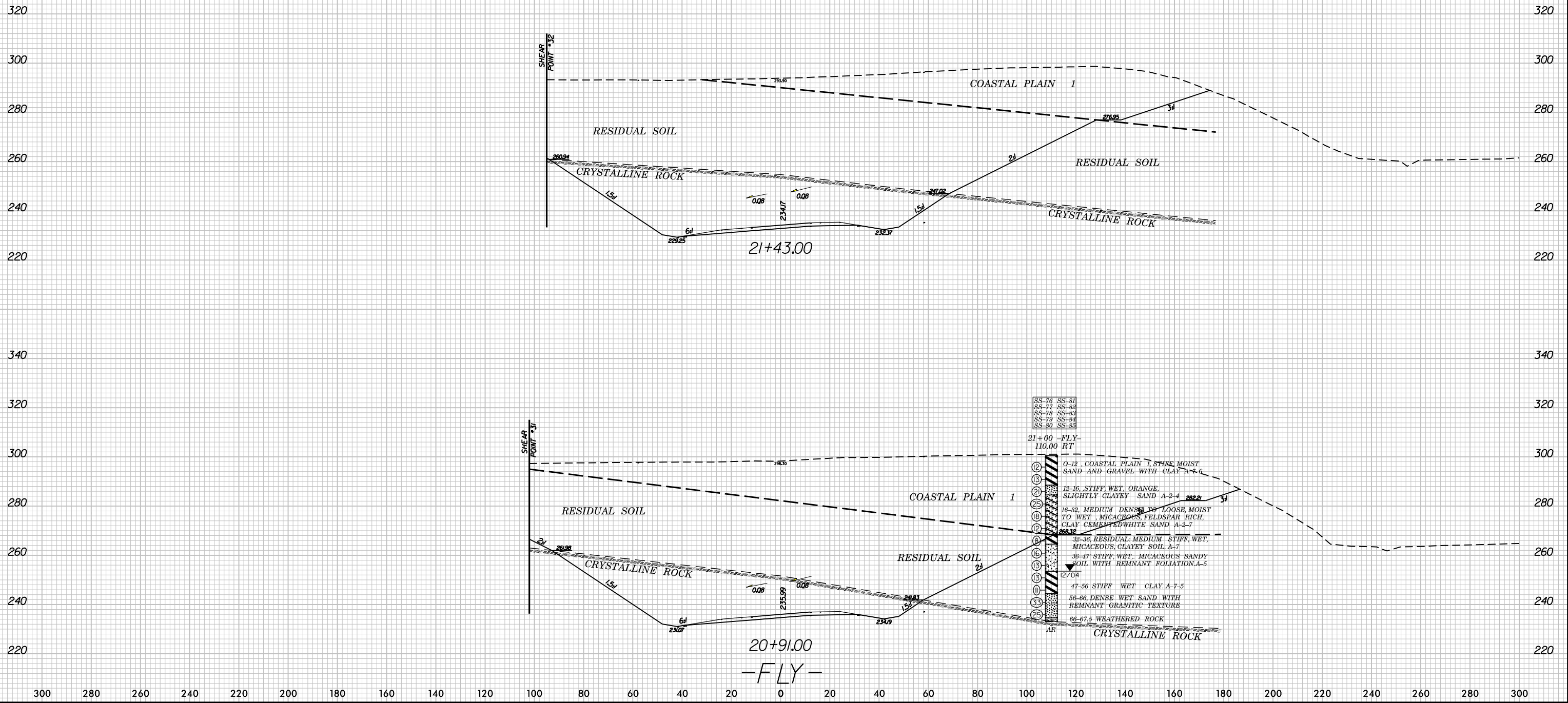


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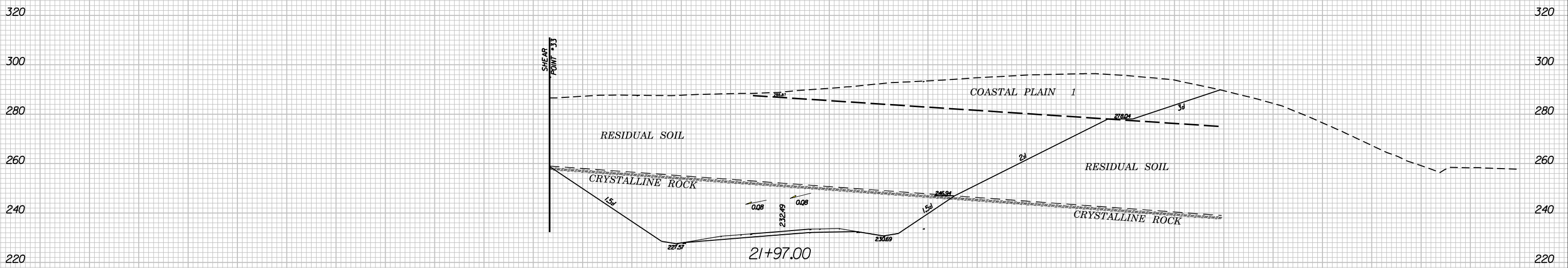
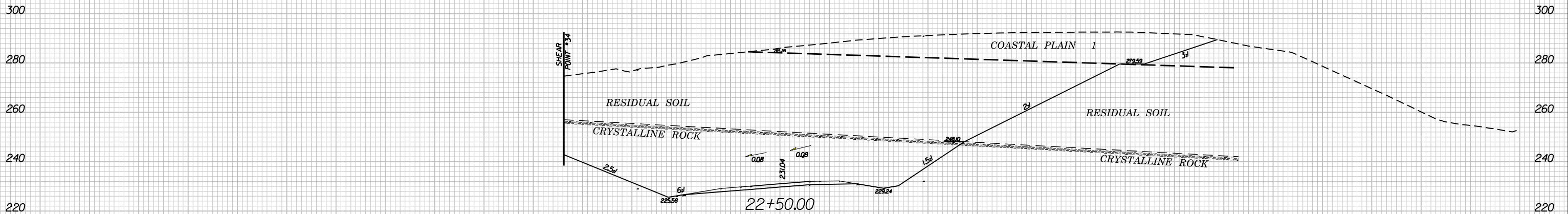
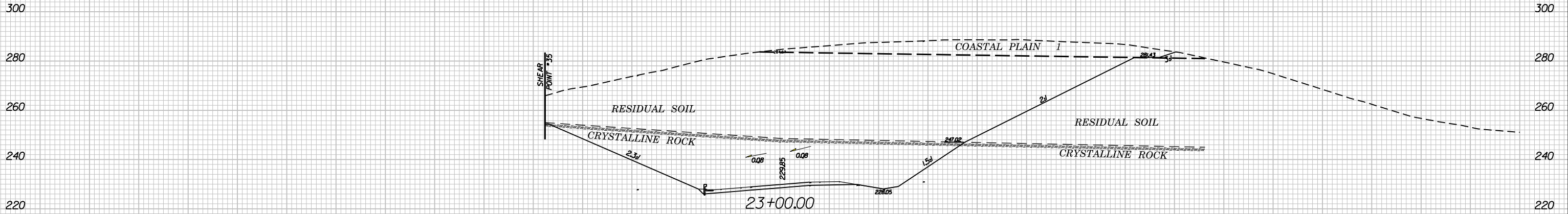
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SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS	LL	PI	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-76	11 ORT	21+00	3.70-5.20	A-7-6(8)	47	23	31.4	17.5	4.9	46.2	97	80	51	-	-
SS-77	11 ORT	21+00	8.70-10.20	A-7-6(7)	41	22	35.8	15.2	20.8	28.3	97	74	49	-	-
SS-78	11 ORT	21+00	13.70-15.20	A-2-4(D)	24	NP	60.0	20.6	5.3	14.1	99	65	20	-	-
SS-79	11 ORT	21+00	18.70-20.20	A-2-7(1)	50	27	59.4	16.8	3.6	20.2	93	53	23	-	-
SS-80	11 ORT	21+00	23.70-25.20	A-2-7(3)	47	27	55.2	11.7	8.9	24.2	92	49	32	-	-
SS-82	11 ORT	21+00	23.70-25.20	A-7-5(23)	89	30	17.2	20.4	22.0	40.4	98	86	65	-	-
SS-81	11 ORT	21+00	28.70-30.20	A-2-7(1)	51	23	72.9	6.3	6.1	14.1	93	34	20	-	-
SS-83	11 ORT	21+00	38.70-40.20	A-5(4)	64	NP	12.1	31.5	28.1	28.3	100	96	61	-	-
SS-84	11 ORT	21+00	43.70-45.20	A-5(6)	56	7	13.5	29.5	30.7	26.3	100	94	62	-	-
SS-85	11 ORT	21+00	48.70-50.20	A-7-5(7)	59	11	15.6	31.7	28.5	24.2	100	94	58	-	-



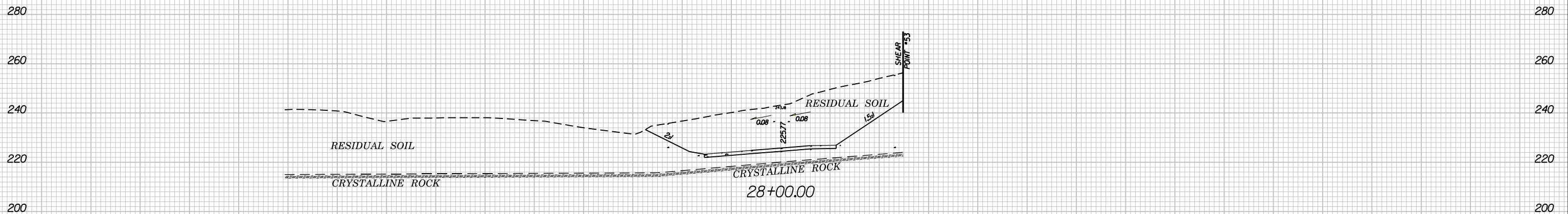
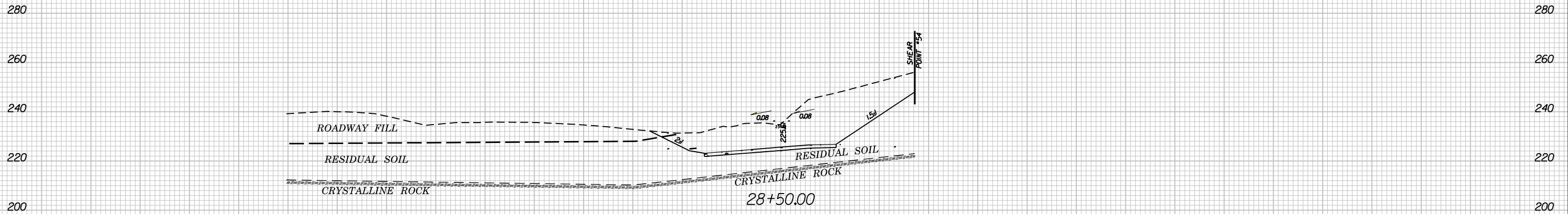
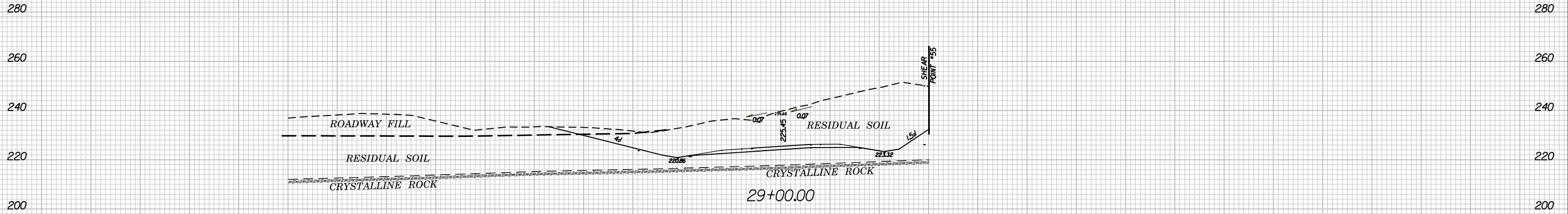
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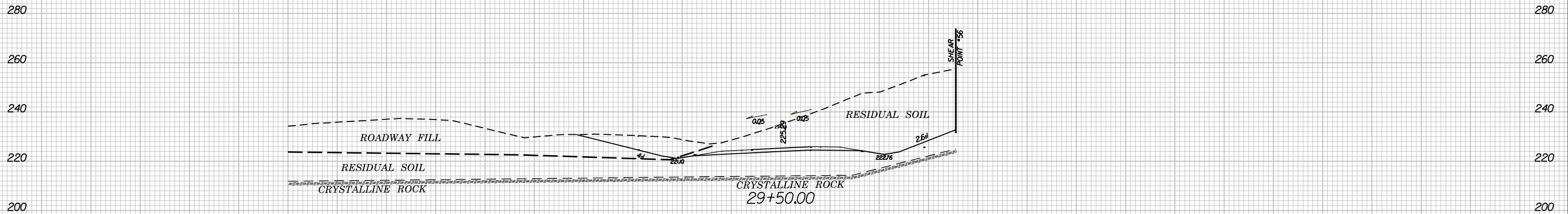
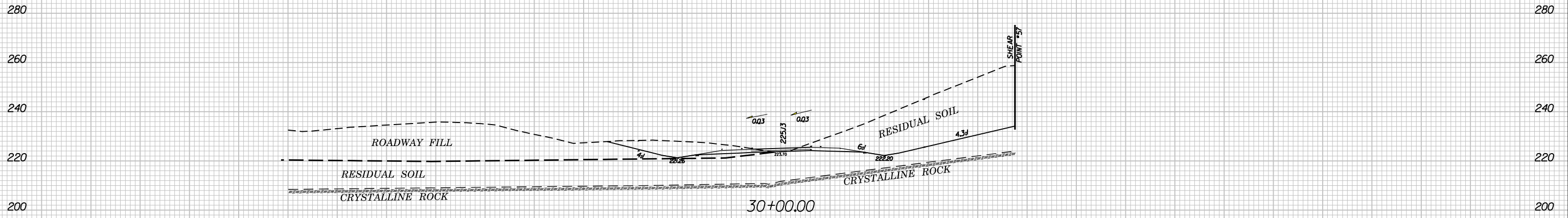
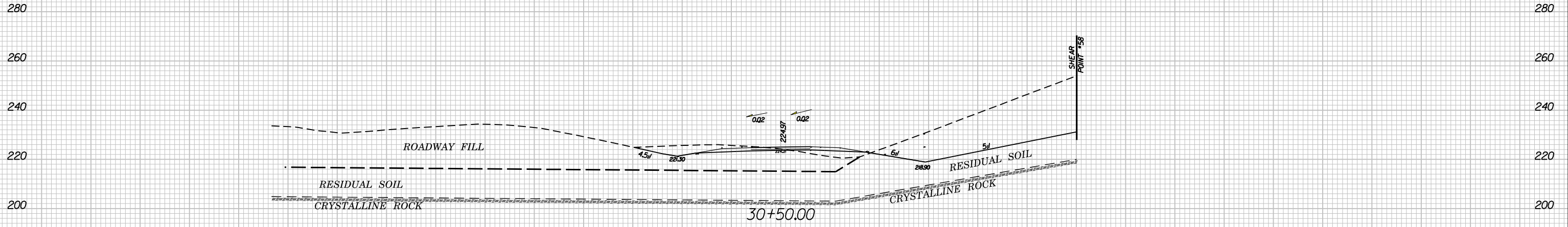
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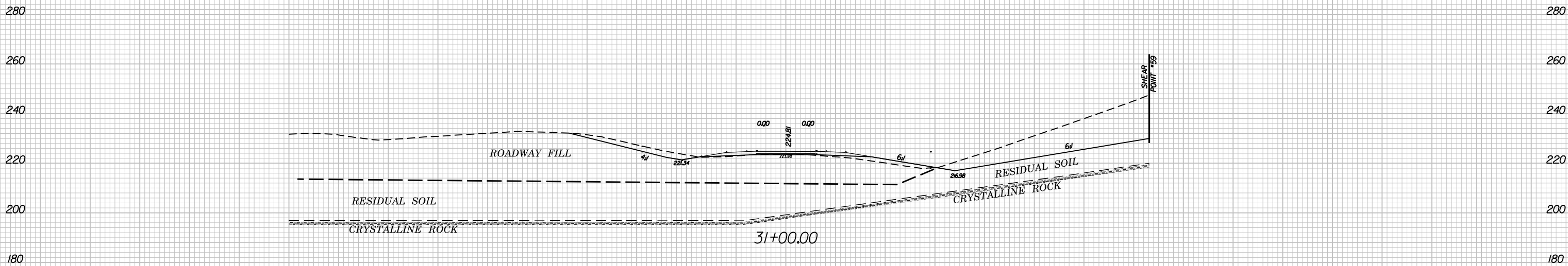
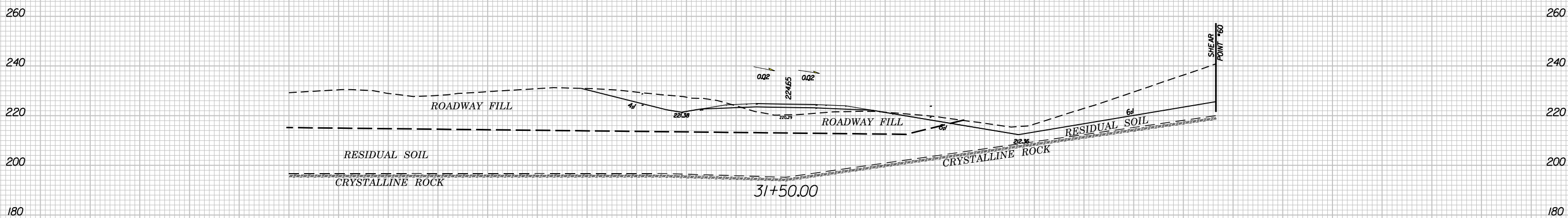
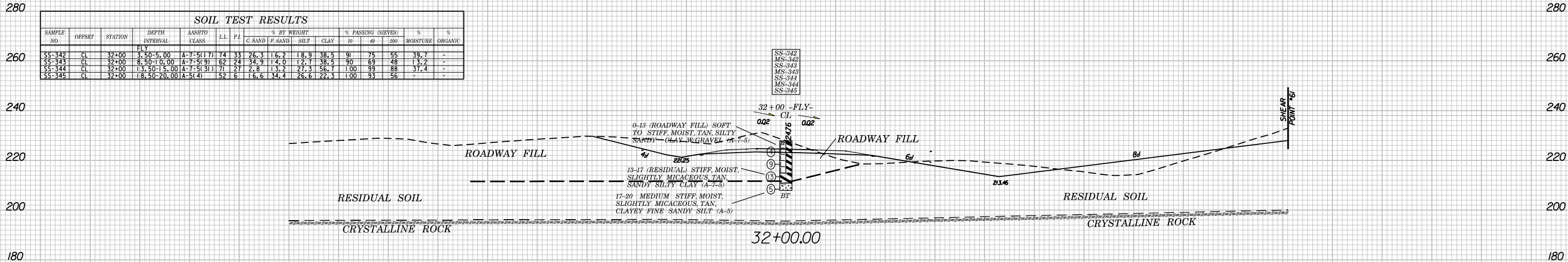
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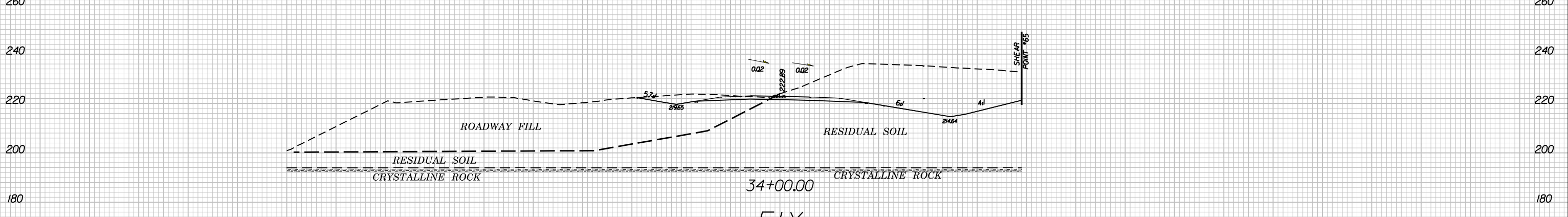
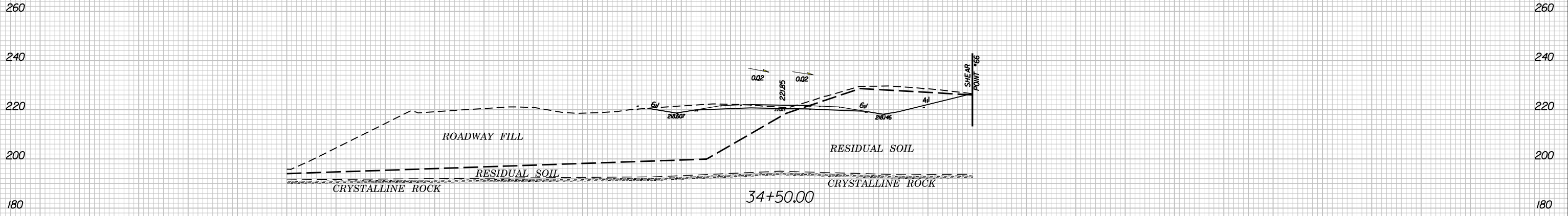
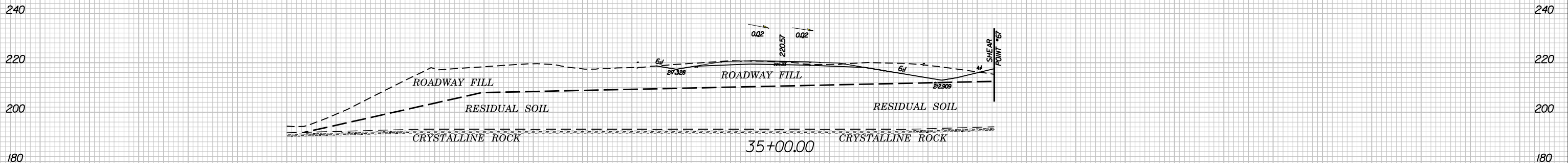
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SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS	L.L.	P.L.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-342	CL	32+00	3.50-5.00	A-7-5(1.7)	74	33	26.3	16.2	18.9	38.5	91	75	55	39.7	-
SS-343	CL	32+00	8.50-10.00	A-7-5(9)	62	24	34.9	14.0	12.7	38.5	90	69	48	13.2	-
SS-344	CL	32+00	13.50-15.00	A-7-5(31)	71	27	2.8	13.2	27.3	56.7	100	99	88	37.4	-
SS-345	CL	32+00	18.50-20.00	A-5(4)	52	6	16.6	34.4	26.6	22.3	100	93	56	-	-



300 280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300

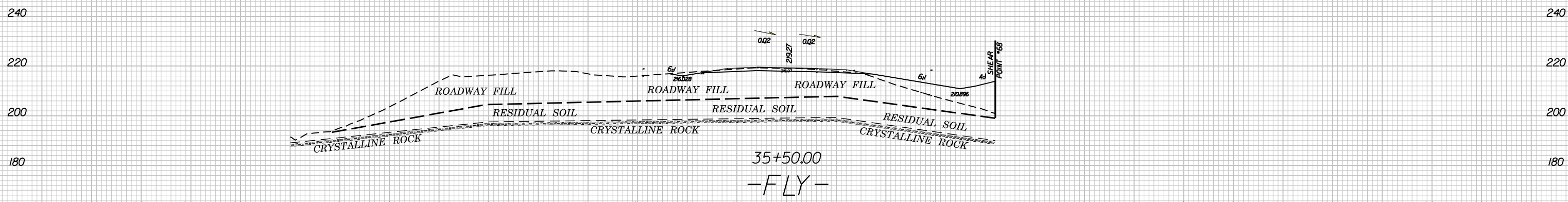
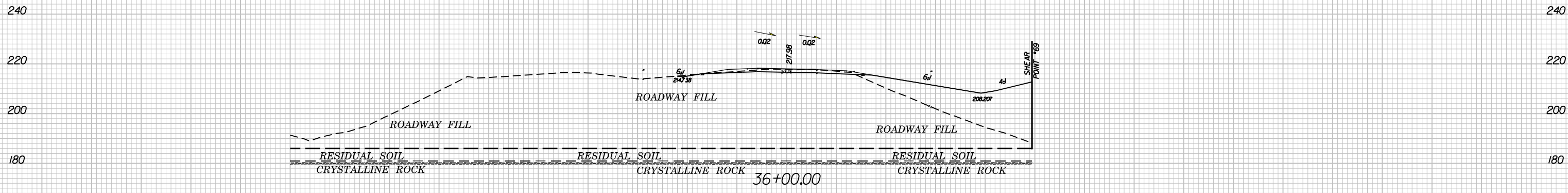
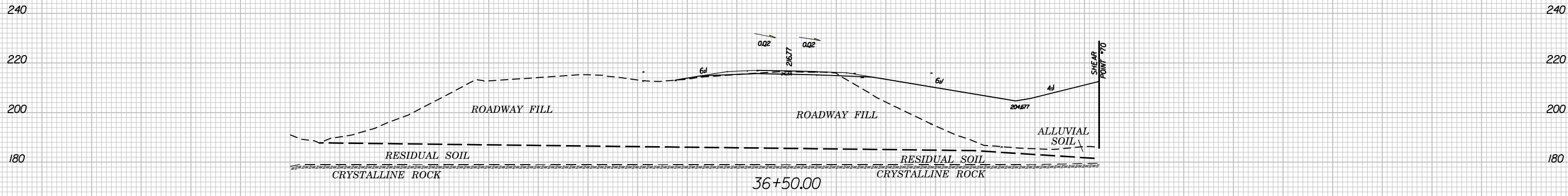
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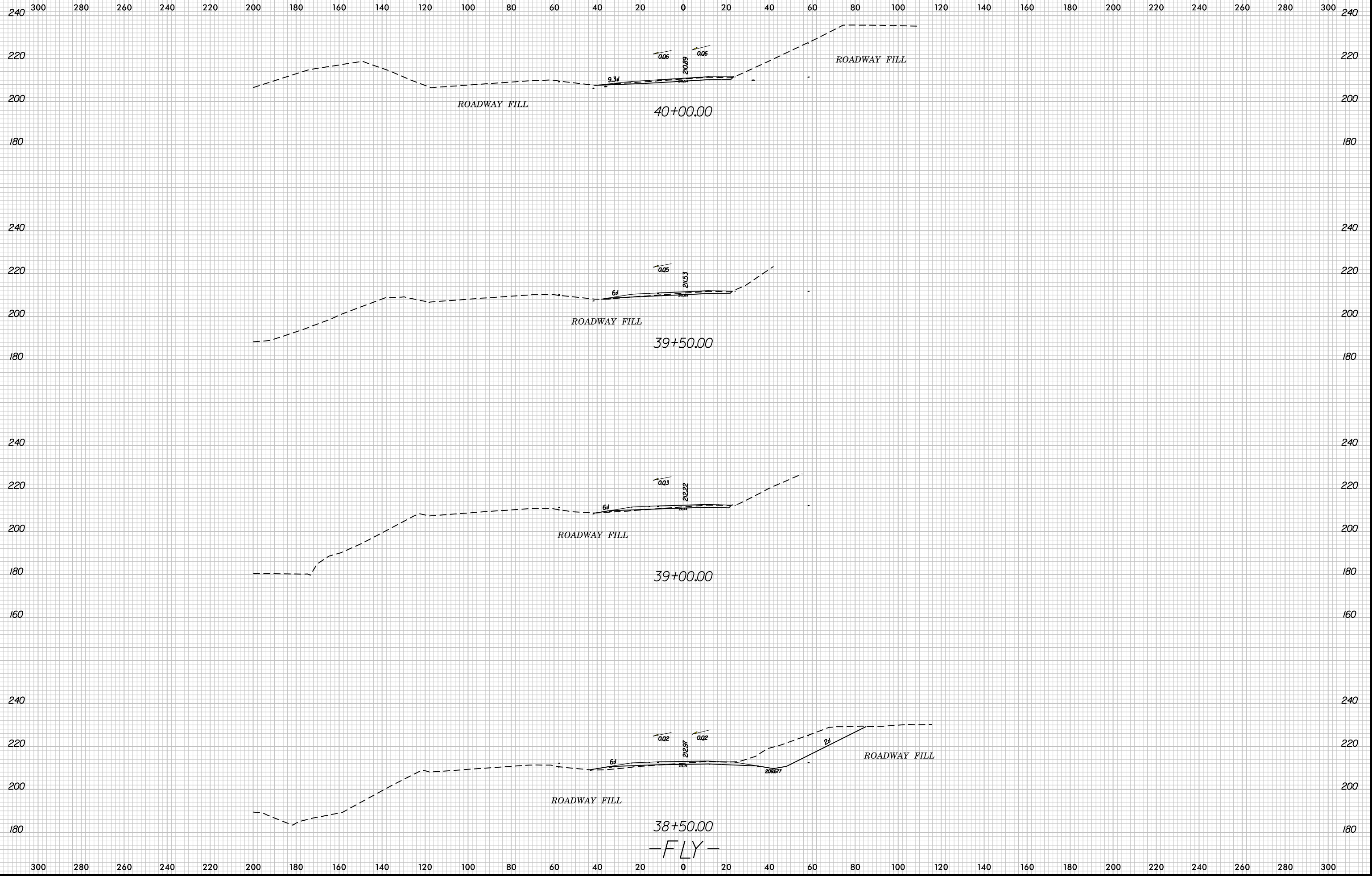
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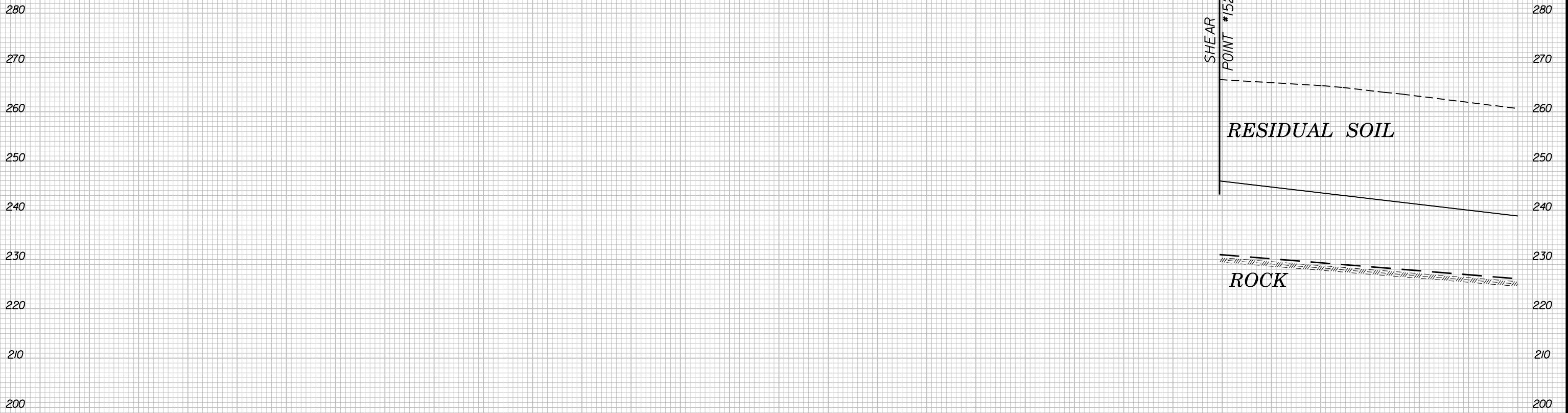
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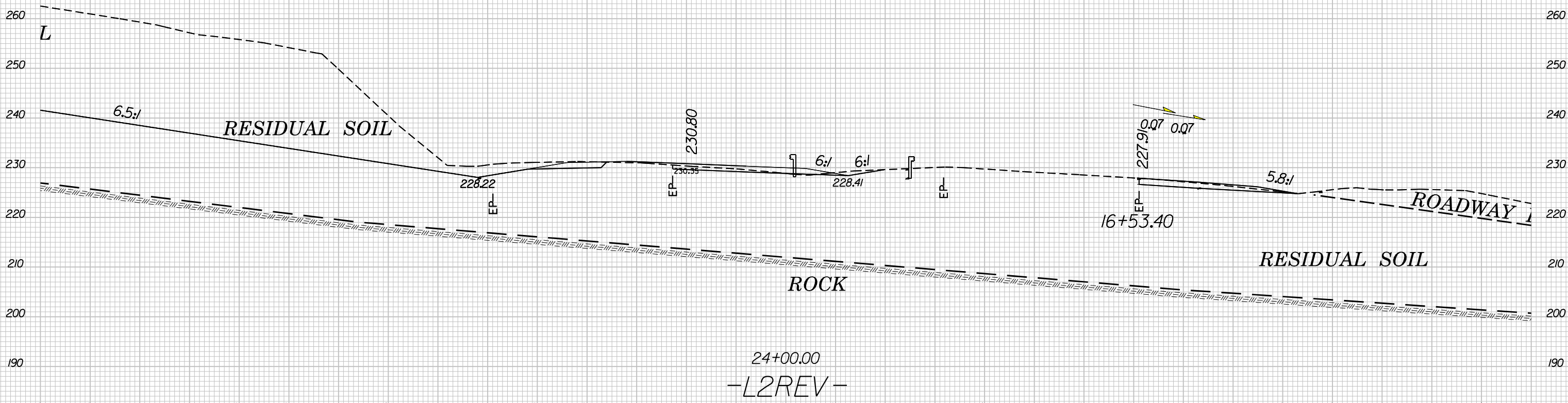
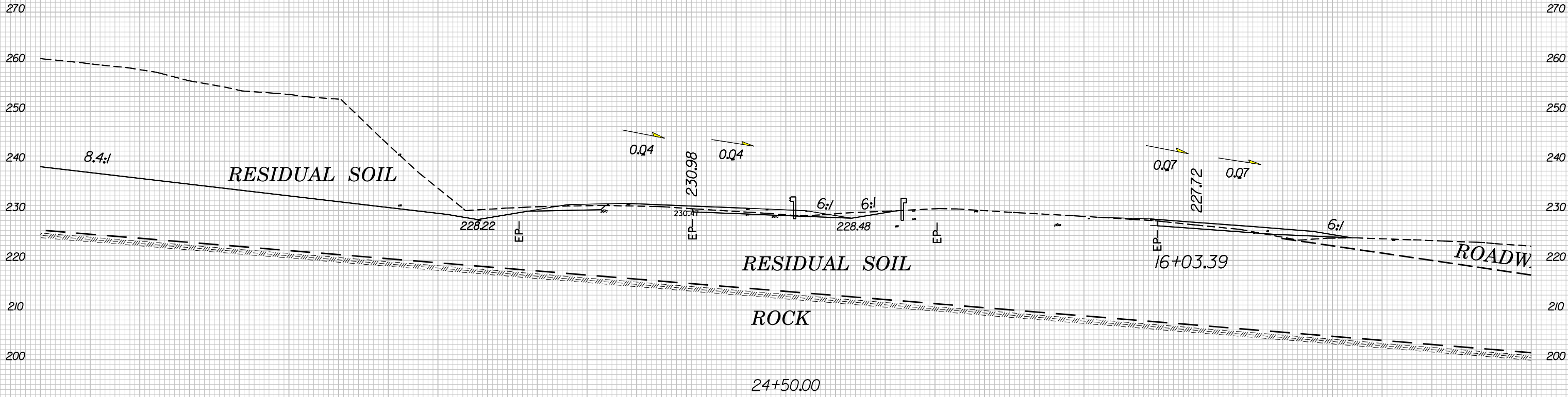


24+00.00
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130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170



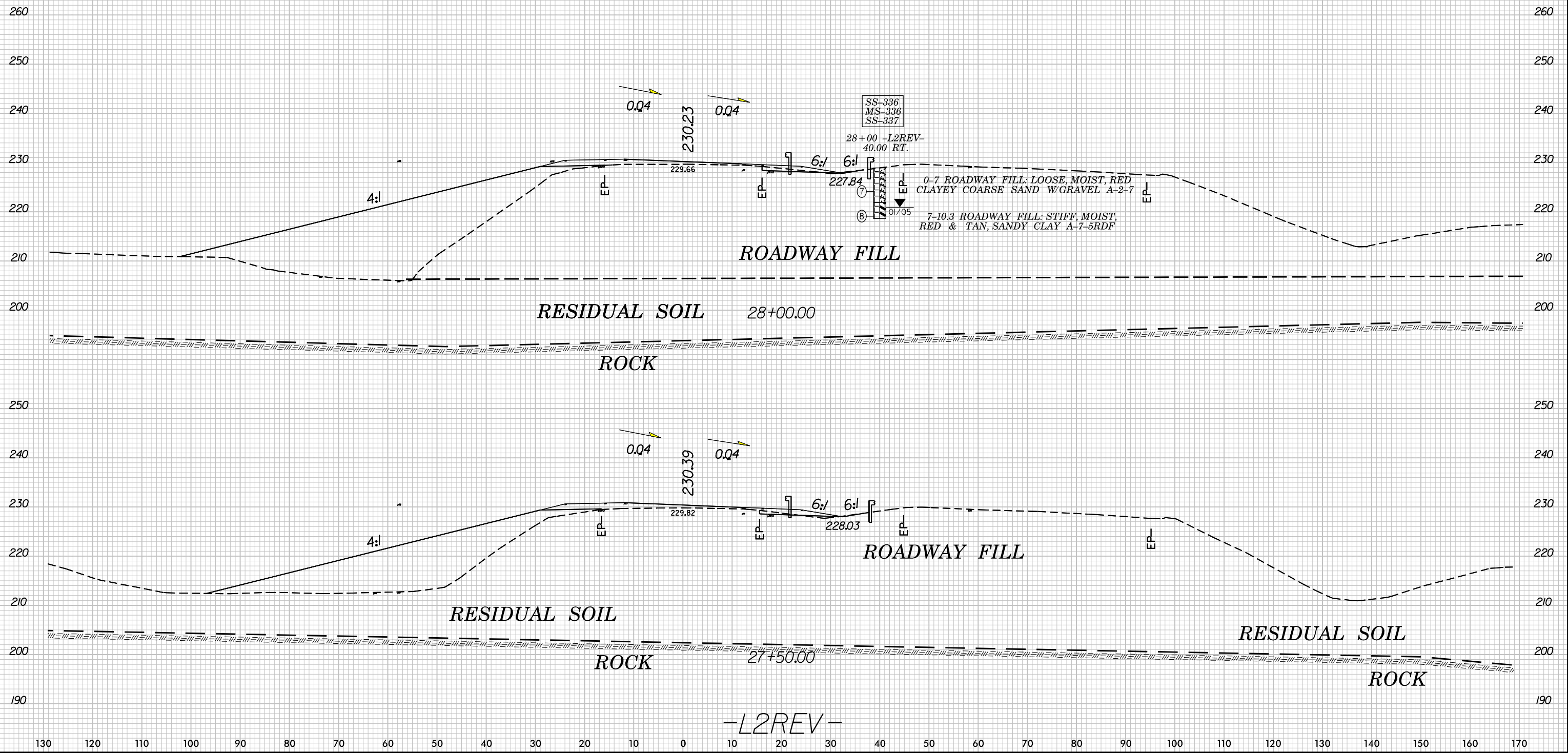
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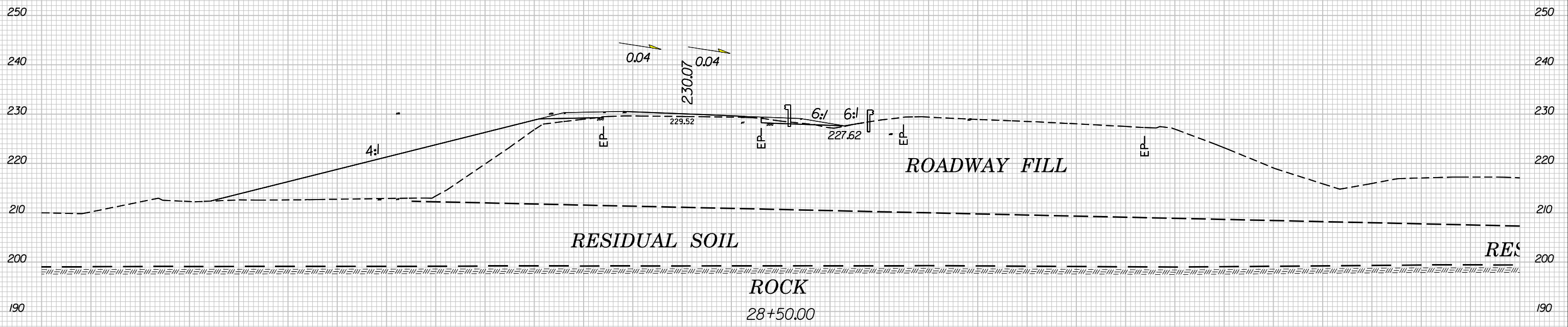
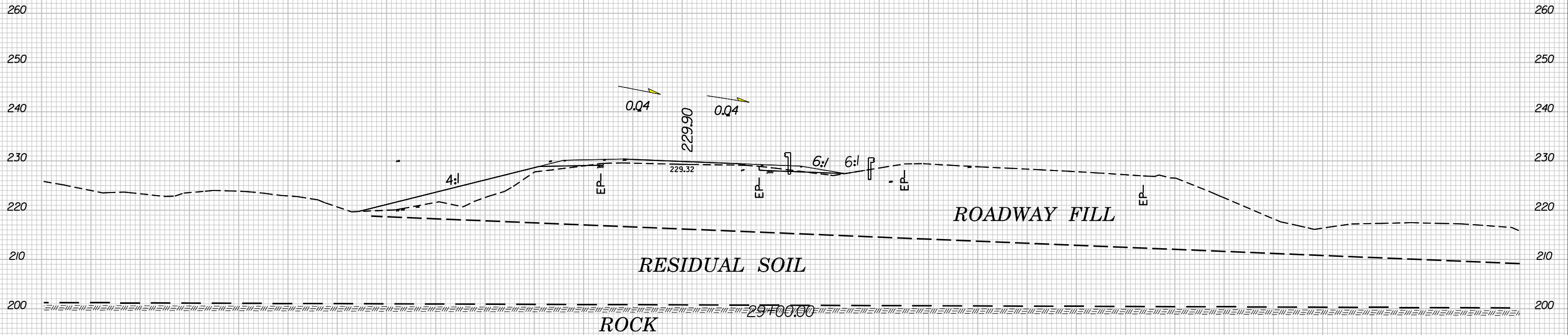
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SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-336	40 RT	28+00	3.80-5.30	A-2-7(2)	45	25	51.8	16.1	5.7	26.4	81	49	27	16.9	-
SS-337	40 RT	28+00	8.80-10.30	A-7-5(11)	65	23	30.3	14.8	18.3	36.6	93	72	53	-	-

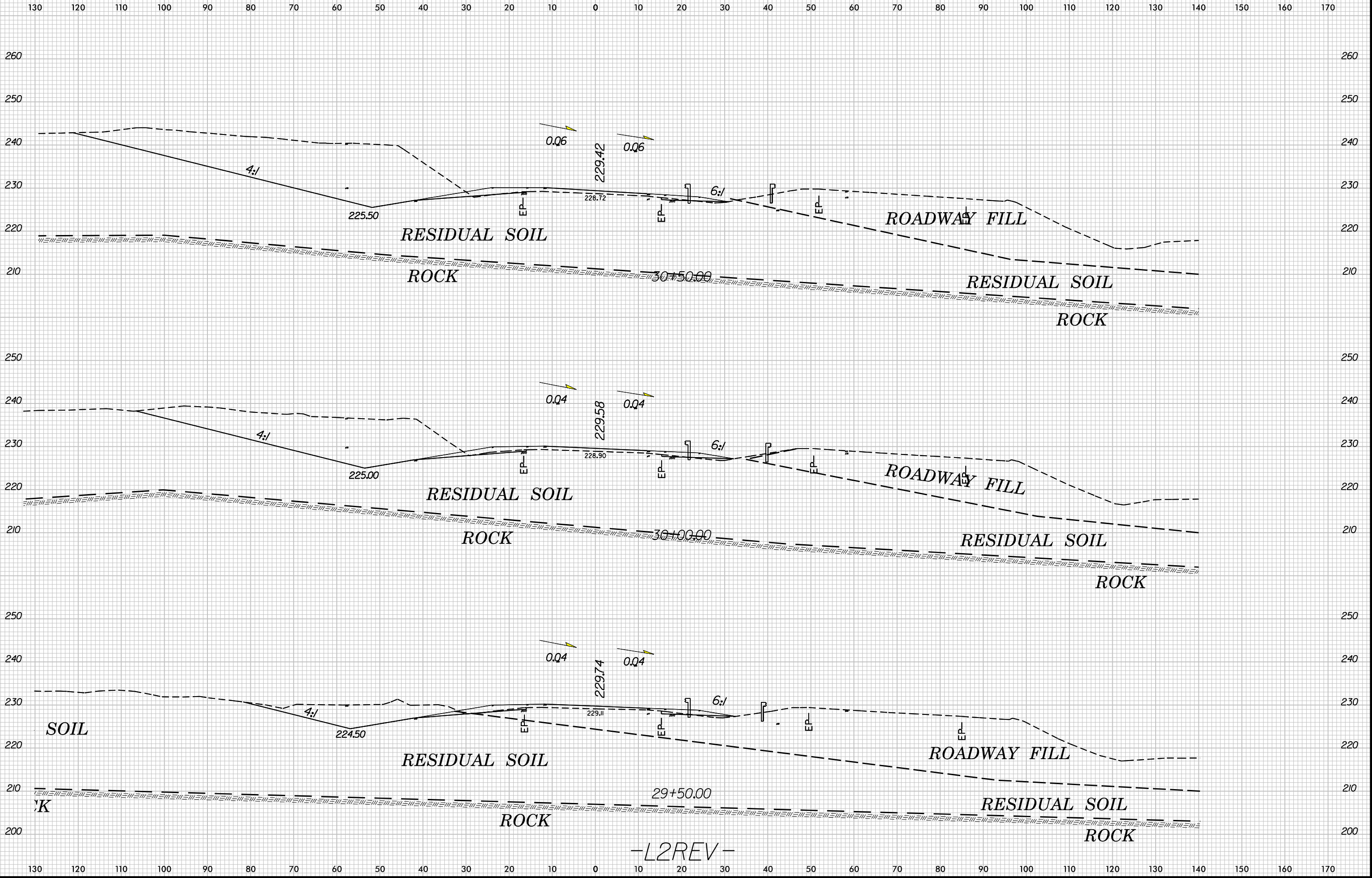


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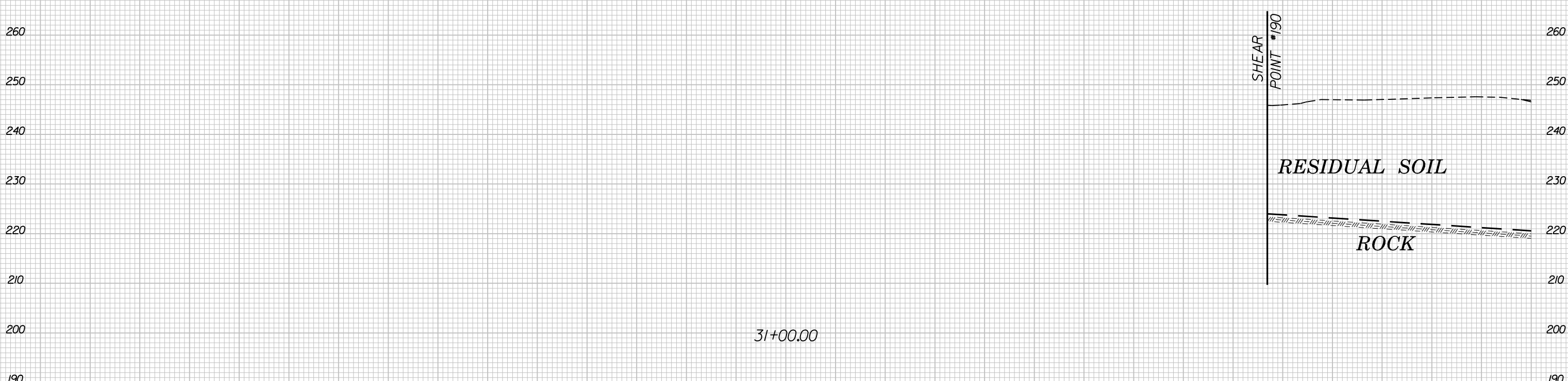
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-L2REV-

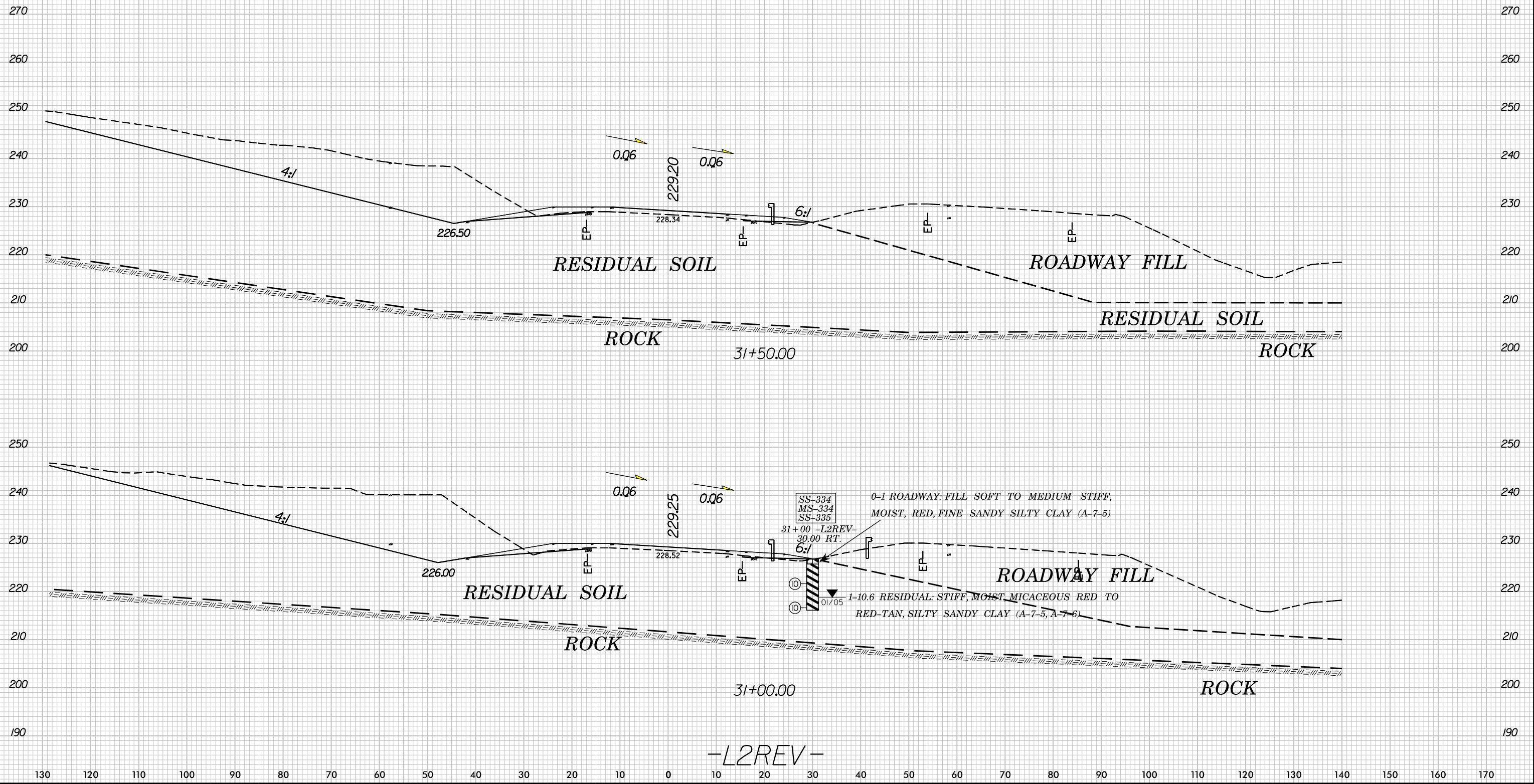
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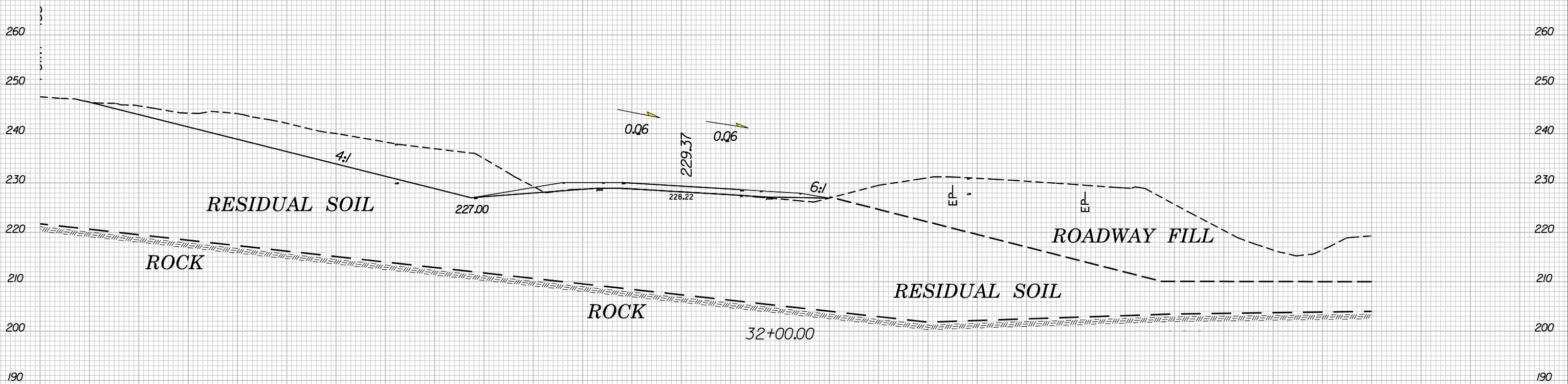
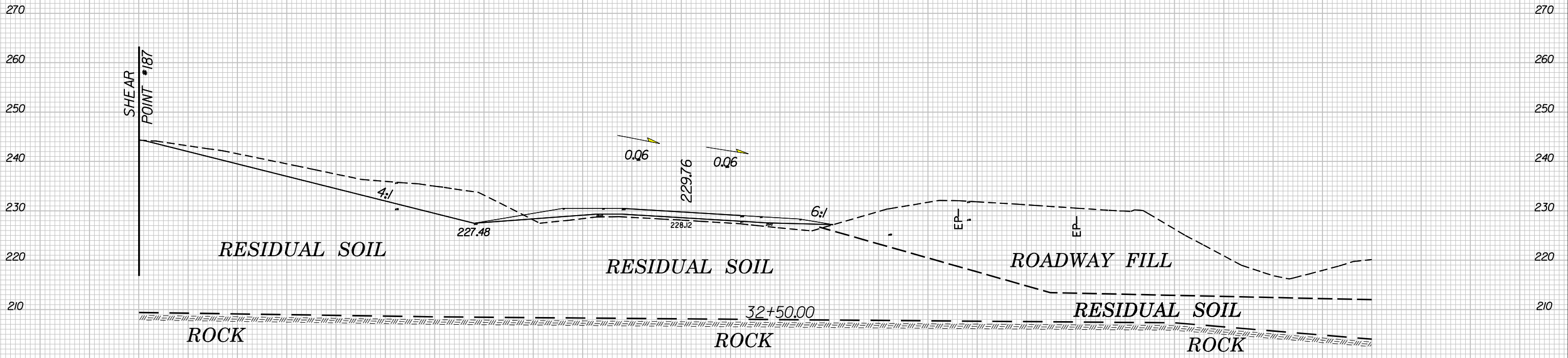
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SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	LL	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-334	30 RT	31+0.0	4.10-5.60	A-7-5(39)	74	36	4.3	10.0	14.6	71.1	100	98	88	39.3	-
SS-335	30 RT	31+0.0	9.10-10.60	A-7-6(7)	45	19	19.9	33.1	22.6	24.4	100	91	52	-	-



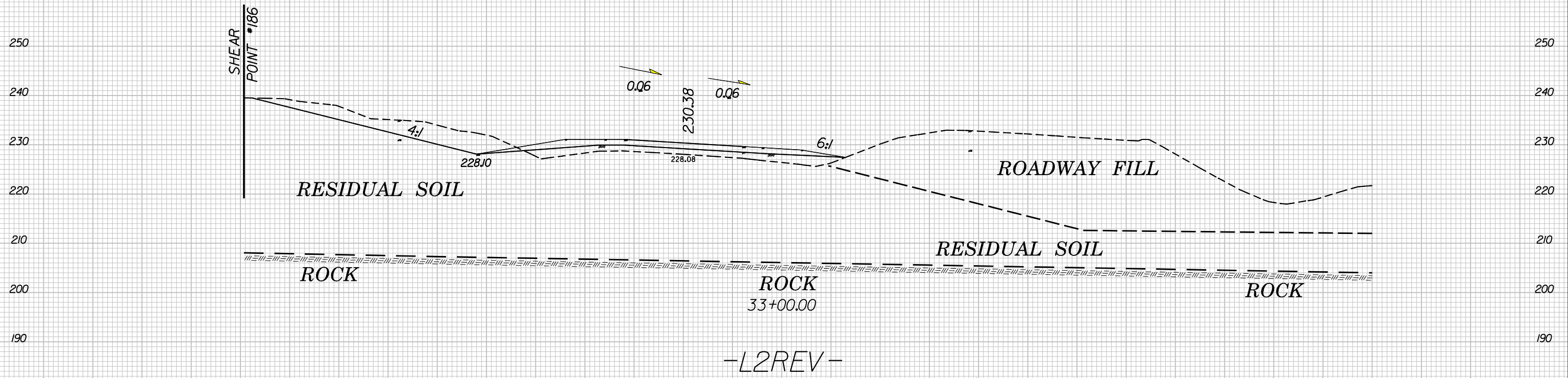
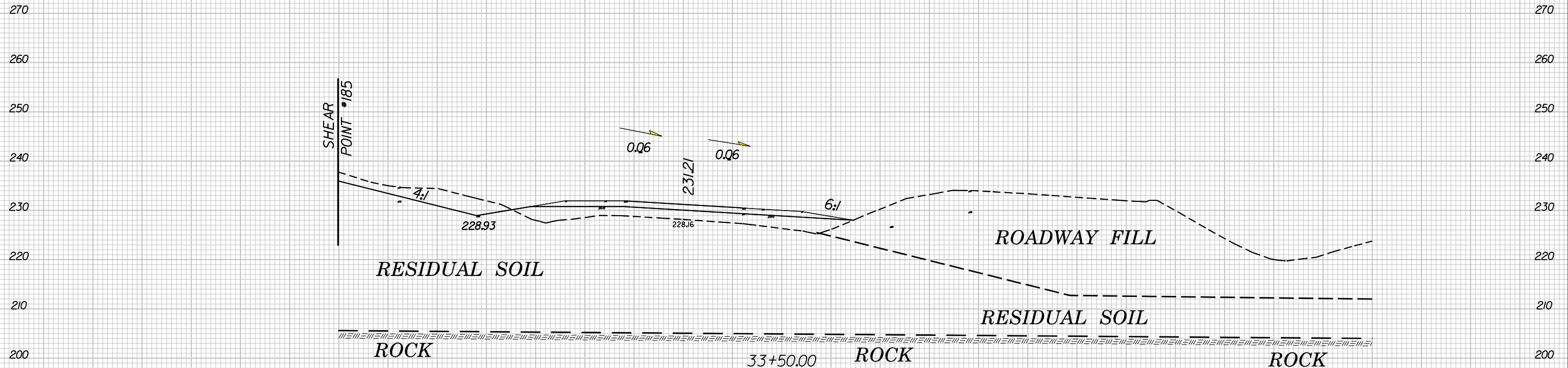
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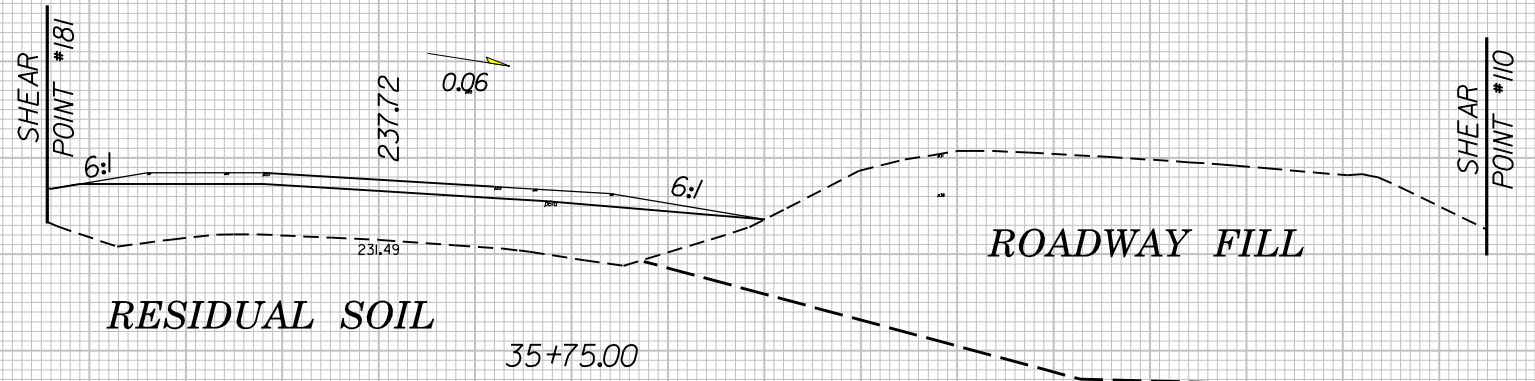
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-L2REV-

130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170

