EARTHWORK FOR ABC PAVEMENT DESIGN.

NOTE: EMBANKMENT COLUMN DOES NOT INCLUDE BACKFILL FOR UNDERCUT

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

CROSS-SECTION SUMMARY

PROJ. REFERENCE NO.	SHEET NO.
R-2611	X-1A

Quantities are approximate only. The Resident Engineer will recross-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.

Station L Lt	Uncl. Exc. (cu. yd.)	Embt (cu. yd.)	Station L Lt	Uncl. Exc. (cu. yd.)	Embt (cu. yd.)	Station L Lt	Uncl. Exc. (cu. yd.)	Embt (cu. yd.)	Station L Lt	Uncl. Exc. (cu. yd.)	Embt (cu. yd.)	Station L Lt	Uncl. Exc. (cu. yd.)	Embt (cu. yd.)	Station L Lt	Uncl. Exc. (cu. yd.)	Embt (cu. yd.)
10+50.00	0	0	37+00.00	18	118	61+00.00	9	19	85+00.00	26	60	109+00.00	4	109	133+00.00	26	53
11+00.00	153	6	37+50.00	23	94	61+50.00	8	19	85+50.00	56	53	109+50.00	3	112	133+50.00	20	55
11+50.00	144	6	38+00.00	7	89	62+00.00	4	37	86+00.00	66	50	110+00.00	0	134	134+00.00	14	72
12+00.00	142	8	38+50.00	0	120	62+50.00	8	53	86+50.00	92	51	110+50.00	0	166	134+50.00	10	107
12+50.00	99	8	39+00.00	0	157	63+00.00	14	43	87+00.00	149	53	111+00.00	0	201	135+00.00	10	115
13+00.00	44	9	39+50.00	1	140	63+50.00	8	44	87+50.00	154	53	111+50.00	0	206	135+50.00	9	119
13+50.00	24	11	40+00.00	1	119	64+00.00	5	50	88+00.00	153	56	112+00.00	0	180	136+00.00	10	116
14+00.00	21	11		2819	5007	64+50.00	7	47	88+50.00	154	58	112+50.00	0	148	136+50.00	8	112
14+50.00	19	9	**Station**	**Uncl. Exc.**	**Embt**	65+00.00	9	50	89+00.00	130	58	113+00.00	7	116	137+00.00	3	118
15+00.00	15	13				65+50.00	20	57	89+50.00	96	67	113+50.00	36	94	137+50.00	1	52
15+50.00	8	18	**L Lt**	**(cu. yd.)**	**(cu. yd.)**	66+00.00	22	62	90+00.00	33	107	114+00.00	96	76	138+00.00	2	42
16+00.00	8	21	40+00.00	0	0	66+50.00	17	62	90+50.00	0	150	114+50.00	169	69	138+50.00	19	62
16+50.00	7	24	40+50.00	0	107	67+00.00	33	57	91+00.00	0	198	115+00.00	230	64	139+00.00	44	40
17+00.00	15	20	41+00.00	4	97	67+50.00	64	56	91+50.00	0	219	115+50.00	249	55	139+50.00	47	41
17+50.00	19	15	41+50.00	28	81	68+00.00	78	55	92+00.00	0	265	116+00.00	170	50	140+00.00	27	49
18+00.00	18	18	42+00.00	56	66	68+50.00	72	57	92+50.00	0	307	116+50.00	65	69	140+50.00	10	59
18+50.00	13	22	42+50.00	67	65	69+00.00	44	80	93+00.00	0	215	117+00.00	17	96	141+00.00	8	61
19+00.00	6	27	43+00.00	61	70	69+50.00	13	139	93+50.00	7	121	117+50.00	24	106	141+50.00	13	53
19+50.00	12	29	43+50.00	61	71	70+00.00	7	176	94+00.00	52	79	118+00.00	42	85	142+00.00	21	46
20+00.00	18	30	44+00.00	81	67		1878	6001	94+50.00	120	53	118+50.00	94	62	142+50.00	34	73
20+50.00	9	15	44+50.00	103	67	**Station**	**Uncl. Exc.**	**Embt**	95+00.00	225	47	119+00.00	119	61	143+00.00	35	123
21+00.00	14	17	45+00.00	125	68				95+50.00	336	46	119+50.00	57	81	143+50.00	34	124
21+50.00	20	39	45+50.00	144	66	**L Lt**	**(cu. yd.)**	**(cu. yd.)**	96+00.00	406	48	120+00.00	20	105	144+00.00	44	104
22+00.00	9	50	46+00.00	153	57	70+00.00	0	0	96+50.00	496	50	120+50.00	31	99	144+50.00	31	101
22+50.00	6	56	46+50.00	140	49	70+50.00	4	138	97+00.00	569	50	121+00.00	62	84	145+00.00	16	110
23+00.00	5	54	47+00.00	119	52	71+00.00	32	75	97+50.00	592	50	121+50.00	84	81	145+50.00	13	134
23+50.00	10	43	47+50.00	96	58	71+50.00	99	51	98+00.00	656	50	122+00.00	54	85	146+00.00	15	145
24+00.00	17	40	48+00.00	62	66	72+00.00	151	50	98+50.00	681	50	122+50.00	8	100	146+50.00	31	153
24+50.00	19	38	48+50.00	21	98	72+50.00	132	50	99+00.00	601	53	123+00.00	0	122	147+00.00	51	171
25+00.00	36	32	49+00.00	0	204	73+00.00	64	56	99+50.00	624	60	123+50.00	0	154	147+50.00	41	148
25+50.00	69	32	49+50.00	0	262	73+50.00	25	60	100+00.00	613	65	124+00.00	0	168	148+00.00	23	118
26+00.00	115	36	50+00.00	0	297	74+00.00	53	56		11030	4544	124+50.00	0	161	148+50.00	19	116
26+50.00	169	40	50+50.00	0	351	74+50.00	52	60	**Station**	**Uncl. Exc.**	**Embt**	125+00.00	13	116	149+00.00	23	97
27+00.00	223	42	51+00.00	0	362	75+00.00	51	58				125+50.00	43	59	149+50.00	31	86
27+50.00	252	45	51+50.00	0	341	75+50.00	124	50	**L Lt**	**(cu. yd.)**	**(cu. yd.)**	126+00.00	53	39	150+00.00	44	76
28+00.00	249	48	52+00.00	0	273	76+00.00	201	50	100+00.00	0	0	126+50.00	47	29	150+50.00	58	62
28+50.00	226	49	52+50.00	0	212	76+50.00	186	50	100+50.00	451	65	127+00.00	51	24	151+00.00	46	59
29+00.00	162	48	53+00.00	0	141	77+00.00	103	61	101+00.00	309	65	127+50.00	68	22	151+50.00	27	65
29+50.00	81	49	53+50.00	2	96	77+50.00	169	61	101+50.00	272	66	128+00.00	69	22	152+00.00	16	73
30+00.00	52	52	54+00.00	6	87	78+00.00	270	50	102+00.00	306	66	128+50.00	48	22	152+50.00	5	81
30+50.00	67	57	54+50.00	7	82	78+50.00	280	50	102+50.00	307	65	129+00.00	44	21	153+00.00	0	74
31+00.00	98	61	55+00.00	8	79	79+00.00	284	50	103+00.00	294	63	129+50.00	24	10	153+50.00	3	52
31+50.00	60	31	55+50.00	9	77	79+50.00	248	50	103+50.00	260	60	130+00.00	43	10	154+00.00	14	40
32+00.00	6	27	56+00.00	11	74	80+00.00	205	50	104+00.00	194	57		5027	5214	154+50.00	27	47
32+50.00	7	110	56+50.00	14	67	80+50.00	244	50	104+50.00	158	54	**Station**	**Uncl. Exc.**	**Embt**	155+00.00	16	92
33+00.00	1	232	57+00.00	13	70	81+00.00	304	50	105+00.00	141	52				155+50.00	0	109
33+50.00	0	354	57+50.00	11	77	81+50.00	277	50	105+50.00	94	55	**L Lt**	**(cu. yd.)**	**(cu. yd.)**	156+00.00	21	92
34+00.00	0	403	58+00.00	10	58	82+00.00	201	51	106+00.00	65	59	130+00.00	0	0	156+50.00	56	88
34+50.00	0	418	58+50.00	6	57	82+50.00	110	56	106+50.00	31	82	130+50.00	72	21	157+00.00	70	78
35+00.00	0	471	59+00.00	4	90	83+00.00	36	64	107+00.00	0	126	131+00.00	49	24	157+50.00	86	63
35+50.00	0	416	59+50.00	4	104	83+50.00	11	70	107+50.00	0	146	131+50.00	31	31	158+00.00	119	52
36+00.00	0	277	60+00.00	4	108	84+00.00	12	69	108+00.00	0	138	132+00.00	17	47	158+50.00	173	52
36+50.00	2	183	60+50.00	6	64	84+50.00	15	66	108+50.00	1	122	132+50.00	19	55	159+00.00	224	53

PROJ. REFERENCE NO.	SHEET NO.
R-2611	X-1B

EARTHWORK FOR ABC PAVEMENT DESIGN.

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

CROSS-SECTION SUMMARY

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NOTE: EMBANKMENT COLUMN DOES NOT INCLUDE BACKFILL FOR UNDERCUT

Station L Lt	Uncl. Exc. (cu. yd.)	Embt (cu. yd.)
159+50.00	224	54
160+00.00	195	55
	2355	4770

Station L Lt	Uncl. Exc. (cu. yd.)	Embt (cu. yd.)
160+00.00	0	0
160+50.00	160	58
161+00.00	116	60
161+50.00	94	59
162+00.00	86	58
162+50.00	70	58
163+00.00	56	60
163+50.00	33	74
164+00.00	34	82
164+50.00	54	77
165+00.00	52	79
165+50.00	40	86
166+00.00	31	92
166+50.00	17	94
167+00.00	76	85
167+50.00	176	73
168+00.00	176	74
168+50.00	121	74
169+00.00	66	78
169+50.00	30	99
170+00.00	14	121
170+50.00	18	127
171+00.00	51	118
171+50.00	95	98
172+00.00	136	86
172+50.00	167	80
173+00.00	192	74
173+50.00	214	75
174+00.00	230	80
174+50.00	239	80
175+00.00	257	67
175+50.00	295	52
176+00.00	301	50
176+50.00	272	53
177+00.00	266	56
177+50.00	136	61
178+00.00	31	64
178+50.00	55	65
179+00.00	51	67
179+50.00	98	66
180+00.00	199	67
180+50.00	338	66
181+00.00	500	65
181+50.00	643	65
182+00.00	840	68
182+50.00	909	73
183+00.00	629	83

Station L Lt	Uncl. Exc. (cu. yd.)	Embt (cu. yd.)
183+50.00	231	94
184+00.00	52	140
184+50.00	142	166
185+00.00	466	115
185+50.00	757	69
186+00.00	794	61
186+50.00	712	63
187+00.00	606	62
187+50.00	492	63
188+00.00	301	74
188+50.00	92	456
189+00.00	0	858
189+50.00	0	910
190+00.00	0	938
	13309	7516

Station L Lt	Uncl. Exc. (cu. yd.)	Embt (cu. yd.)
190+00.00	0	0
190+50.00	0	971
191+00.00	0	1008
191+50.00	0	1189
192+00.00	0	1305
192+50.00	0	672
193+00.00	0	46
193+50.00	3	136
194+00.00	13	201
194+50.00	24	97
195+00.00	16	68
195+50.00	2	79
196+00.00	0	65
196+50.00	0	21
197+50.00	0	77
198+00.00	0	153
198+50.00	4	121
199+00.00	5	70
199+50.00	11	37
200+00.00	156	20
200+50.00	152	13
201+00.00	9	14
201+50.00	5	21
202+00.00	5	28
202+50.00	6	35
203+00.00	6	58
203+50.00	5	87
204+00.00	4	114
204+50.00	3	139
205+00.00	1	75
205+50.00	0	0
206+00.00	1	4
206+50.00	3	8
207+00.00	4	50
207+50.00	16	67

Station L Lt	Uncl. Exc. (cu. yd.)	Embt (cu. yd.)
208+00.00	39	32
208+50.00	77	22
209+00.00	87	21
209+50.00	35	10
210+00.00	5	11
210+50.00	9	22
	706	7167

Station L Rt	Uncl. Exc. (cu. yd.)	Embt (cu. yd.)
10+50.00	0	0
11+00.00	46	4
11+50.00	49	4
12+00.00	56	5
12+50.00	47	6
13+00.00	31	7
13+50.00	19	9
14+00.00	10	10
14+50.00	12	8
15+00.00	16	6
15+50.00	12	6
16+00.00	8	8
16+50.00	6	14
17+00.00	5	14
17+50.00	7	9
18+00.00	9	9
18+50.00	7	10
19+00.00	4	8
19+50.00	1	3
20+00.00	6	2
20+50.00	11	2
21+00.00	16	4
21+50.00	23	8
22+00.00	31	14
22+50.00	31	19
23+00.00	27	22
23+50.00	22	22
24+00.00	20	20
24+50.00	19	16
25+00.00	20	14
25+50.00	20	17
26+00.00	21	26
26+50.00	24	36
27+00.00	18	65
27+50.00	11	86
28+00.00	8	81
28+50.00	7	73
29+00.00	8	83
29+50.00	6	102
30+00.00	7	92
30+50.00	10	69
31+00.00	13	55
31+50.00	12	52

Station L Rt	Uncl. Exc. (cu. yd.)	Embt (cu. yd.)
32+00.00	5	25
32+50.00	2	4
33+00.00	6	9
33+50.00	6	10
34+00.00	5	38
34+50.00	2	71
35+00.00	0	107
35+50.00	0	216
36+00.00	0	268
36+50.00	2	165
37+00.00	13	83
37+50.00	18	79
38+00.00	11	78
38+50.00	10	88
39+00.00	12	91
39+50.00	14	85
40+00.00	13	78
	855	2615

Station L Rt	Uncl. Exc. (cu. yd.)	Embt (cu. yd.)
40+00.00	0	0
40+50.00	10	81
41+00.00	10	87
41+50.00	13	71
42+00.00	12	55
42+50.00	9	60
43+00.00	8	75
43+50.00	6	89
44+00.00	6	93
44+50.00	9	76
45+00.00	13	66
45+50.00	13	115
46+00.00	11	163
46+50.00	11	133
47+00.00	14	89
47+50.00	18	72
48+00.00	19	68
48+50.00	16	78
49+00.00	7	93
49+50.00	6	93
50+00.00	6	103
50+50.00	4	117
51+00.00	1	120
51+50.00	0	137
52+00.00	0	163
52+50.00	0	171
53+00.00	0	170
53+50.00	0	158
54+00.00	0	130
54+50.00	2	113
55+00.00	12	100
55+50.00	41	88

Station L Rt	Uncl. Exc. (cu. yd.)	Embt (cu. yd.)
56+00.00	72	80
56+50.00	98	76
57+00.00	126	75
57+50.00	140	65
58+00.00	130	55
58+50.00	103	53
59+00.00	72	53
59+50.00	55	53
60+00.00	57	57
60+50.00	53	66
61+00.00	86	91
61+50.00	111	119
62+00.00	83	137
62+50.00	83	144
63+00.00	116	151
63+50.00	69	239
64+00.00	1	320
64+50.00	1	295
65+00.00	0	248
65+50.00	0	239
66+00.00	1	234
66+50.00	2	206
67+00.00	2	151
67+50.00	3	97
68+00.00	3	87
68+50.00	1	110
69+00.00	0	163
69+50.00	0	225
70+00.00	1	250
	1746	7366

Station L Rt	Uncl. Exc. (cu. yd.)	Embt (cu. yd.)
70+00.00	0	0
70+50.00	3	166
71+00.00	2	89
71+50.00	0	89
72+00.00	3	86
72+50.00	6	83
73+00.00	8	81
73+50.00	11	75
74+00.00	27	67
74+50.00	31	72
75+00.00	22	72
75+50.00	29	61
76+00.00	39	61
76+50.00	44	59
77+00.00	46	59
77+50.00	35	61
78+00.00	19	63
78+50.00	14	63
79+00.00	11	66
79+50.00	11	73

Station L Rt	Uncl. Exc. (cu. yd.)	Embt (cu. yd.)
80+00.00	17	73
80+50.00	18	63
81+00.00	9	61
81+50.00	5	65
82+00.00	5	69
82+50.00	9	65
83+00.00	14	47
83+50.00	13	48
84+00.00	9	62
84+50.00	8	70
85+00.00	11	66
85+50.00	15	83
86+00.00	17	111
86+50.00	14	116
87+00.00	13	95
87+50.00	14	72
88+00.00	16	77
88+50.00	18	76
89+00.00	17	69
89+50.00	17	65
90+00.00	15	70
90+50.00	13	85
91+00.00	12	101
91+50.00	12	91
92+00.00	11	97
92+50.00	10	120
93+00.00	10	148
93+50.00	8	185
94+00.00	6	190
94+50.00	6	186
95+00.00	5	167
95+50.00	7	115
96+00.00	23	74
96+50.00	35	58
97+00.00	46	53
97+50.00	47	47
98+00.00	44	42
98+50.00	42	47
99+00.00	23	63
99+50.00	10	42
100+00.00	5	55
	1010	4935

Station L Rt	Uncl. Exc. (cu. yd.)	Embt (cu. yd.)
100+00.00	0	0
100+50.00	2	99
101+00.00	1	97
101+50.00	1	93
102+00.00	5	71
102+50.00	8	50
103+00.00	10	42
103+50.00	12	39

PROJ. REFERENCE NO.	SHEET NO.
R-2611	X-1C

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DIVISION OF HIGHWAYS

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Station L Rt	Uncl. Exc. (cu. yd.)	Embt (cu. yd.)	Station L Rt	Uncl. Exc. (cu. yd.)	Embt (cu. yd.)	Station L Rt	Uncl. Exc. (cu. yd.)	Embt (cu. yd.)	Station L Rt	Uncl. Exc. (cu. yd.)	Embt (cu. yd.)	Station L Rt	Uncl. Exc. (cu. yd.)	Embt (cu. yd.)	Station Y3A	Uncl. Exc. (cu. yd.)	Embt (cu. yd.)
104+00.00	11	41	130+00.00	0	0	156+50.00	9	29	180+50.00	5	86	204+50.00	9	17	12+75.00	0	0
104+50.00	8	51	130+50.00	0	119	157+00.00	11	27	181+00.00	1	92	205+00.00	9	17			
105+00.00	7	56	131+00.00	0	122	157+50.00	12	27	181+50.00	0	93	205+50.00	10	22	Station	Uncl. Exc.	Embt
105+50.00	7	52	131+50.00	0	120	158+00.00	14	36	182+00.00	0	80	206+00.00	11	28	Y4	(cu. yd.)	(cu. yd.)
106+00.00	8	49	132+00.00	0	90	158+50.00	18	62	182+50.00	2	70	206+50.00	11	25	13+50.00	0	0
106+50.00	11	50	132+50.00	1	53	159+00.00	20	64	183+00.00	6	67	207+00.00	12	23	13+75.00	20	0
107+00.00	13	56	133+00.00	3	49	159+50.00	20	50	183+50.00	6	64	207+50.00	12	25	14+00.00	20	3
107+50.00	15	62	133+50.00	3	54	160+00.00	19	51	184+00.00	7	60	208+00.00	11	25	14+25.00	9	38
108+00.00	17	64	134+00.00	4	50		627	3470	184+50.00	9	61	208+50.00	11	25		49	41
108+50.00	18	58	134+50.00	6	46	Station	Uncl. Exc.	Embt	185+00.00	11	62	209+00.00	10	24	Station	Uncl. Exc.	Embt
109+00.00	18	59	135+00.00	8	47				185+50.00	14	39	209+50.00	9	24			
109+50.00	19	65	135+50.00	7	49	L Rt	(cu. yd.)	(cu. yd.)	186+00.00	11	24	210+00.00	9	24	Y6	(cu. yd.)	(cu. yd.)
110+00.00	19	64	136+00.00	5	46	160+00.00	0	0	186+50.00	6	32	210+50.00	10	21	10+50.00	0	0
110+50.00	15	67	136+50.00	2	34	160+50.00	17	56	187+00.00	6	34		259	4303	11+00.00	0	256
111+00.00	12	69	137+00.00	0	43	161+00.00	13	61	187+50.00	5	37	Station	Uncl. Exc.	Embt	11+50.00	24	56
111+50.00	11	70	137+50.00	0	93	161+50.00	13	62	188+00.00	3	49				12+00.00	113	0
112+00.00	11	67	138+00.00	0	119	162+00.00	15	64	188+50.00	4	65	Y1	(cu. yd.)	(cu. yd.)	12+50.00	202	0
112+50.00	12	62	138+50.00	0	115	162+50.00	15	88	189+00.00	3	67	12+25.00	0	0	13+00.00	203	0
113+00.00	12	61	139+00.00	0	104	163+00.00	13	106	189+50.00	0	69	12+50.00	31	0	13+50.00	159	0
113+50.00	10	57	139+50.00	2	81	163+50.00	11	109	190+00.00	7	46	12+75.00	31	0	14+00.00	156	0
114+00.00	10	47	140+00.00	4	64	164+00.00	7	126		400	4373		62	0	14+50.00	193	0
114+50.00	11	40	140+50.00	5	52	164+50.00	4	111	Station	Uncl. Exc.	Embt	Station	Uncl. Exc.	Embt	15+00.00	177	0
115+00.00	11	31	141+00.00	6	52	165+00.00	5	78							15+50.00	138	1
115+50.00	11	55	141+50.00	5	56	165+50.00	7	73	L Rt	(cu. yd.)	(cu. yd.)	Y2	(cu. yd.)	(cu. yd.)	16+00.00	134	2
116+00.00	9	68	142+00.00	4	48	166+00.00	8	70	190+00.00	0	0	14+00.00	0	0	16+50.00	131	2
116+50.00	10	67	142+50.00	12	52	166+50.00	4	31	190+50.00	12	142	14+50.00	144	25	17+00.00	119	1
117+00.00	14	85	143+00.00	18	69	167+00.00	1	3	191+00.00	8	242	15+00.00	174	32	17+50.00	107	0
117+50.00	12	64	143+50.00	23	75	167+50.00	6	28	191+50.00	6	245	15+50.00	164	45	18+00.00	97	1
118+00.00	11	60	144+00.00	35	66	168+00.00	10	49	192+00.00	6	333	16+00.00	138	40	18+50.00	88	1
118+50.00	9	95	144+50.00	31	62	168+50.00	11	48	192+50.00	6	522	16+50.00	94	28	19+00.00	87	0
119+00.00	5	105	145+00.00	26	67	169+00.00	10	51	193+00.00	7	492	17+00.00	56	32	19+50.00	90	0
119+50.00	5	85	145+50.00	25	64	169+50.00	9	70	193+50.00	9	340	17+50.00	50	34		2218	320
120+00.00	10	66	146+00.00	12	56	170+00.00	7	86	194+00.00	6	358	18+00.00	36	33	Station	Uncl. Exc.	Embt
120+50.00	20	57	146+50.00	6	52	170+50.00	6	86	194+50.00	1	262	18+50.00	18	40			
121+00.00	34	53	147+00.00	12	56	171+00.00	11	91	195+00.00	2	95	19+00.00	23	42	Y7	(cu. yd.)	(cu. yd.)
121+50.00	40	55	147+50.00	17	66	171+50.00	9	102	195+50.00	6	47	19+50.00	31	61	10+50.00	0	0
122+00.00	26	69	148+00.00	23	68	172+00.00	2	112	196+00.00	9	60	20+00.00	32	48	11+00.00	83	31
122+50.00	15	88	148+50.00	22	61	172+50.00	1	115	196+50.00	10	60		960	460	11+50.00	74	47
123+00.00	13	91	149+00.00	21	59	173+00.00	3	112	197+00.00	5	31	Station	Uncl. Exc.	Embt	12+00.00	39	132
123+50.00	9	52	149+50.00	17	61	173+50.00	4	108	197+50.00	0	0				12+50.00	2	192
124+00.00	9	56	150+00.00	11	55	174+00.00	3	114	198+00.00	1	6	Y3	(cu. yd.)	(cu. yd.)	13+00.00	1	164
124+50.00	14	89	150+50.00	19	50	174+50.00	2	116	198+50.00	1	41	11+00.00	0	0	13+50.00	0	151
125+00.00	11	76	151+00.00	27	44	175+00.00	6	81	199+00.00	0	73	11+50.00	2	124	14+00.00	0	138
125+50.00	6	72	151+50.00	22	37	175+50.00	6	66	199+50.00	0	78	12+00.00	5	126	14+50.00	15	123
126+00.00	5	90	152+00.00	13	33	176+00.00	3	84	200+00.00	0	87	12+50.00	14	33		214	978
126+50.00	1	128	152+50.00	9	29	176+50.00	1	89	200+50.00	0	97	13+00.00	46	11	Station	Uncl. Exc.	Embt
127+00.00	0	154	153+00.00	9	29	177+00.00	0	85	201+00.00	0	97	13+50.00	41	27			
127+50.00	0	125	153+50.00	9	29	177+50.00	3	73	201+50.00	0	84	14+00.00	7	44	Y8	(cu. yd.)	(cu. yd.)
128+00.00	0	91	154+00.00	7	33	178+00.00	10	67	202+00.00	0	67	14+50.00	3	53	10+75.00	0	0
128+50.00	0	103	154+50.00	4	35	178+50.00	13	69	202+50.00	4	55	15+00.00	2	33	11+00.00	12	18
129+00.00	41	148	155+00.00	2	37	179+00.00	11	72	203+00.00	8	39	15+50.00	34	4	11+25.00	19	0
129+50.00	41	96	155+50.00	2	39	179+50.00	8	79	203+50.00	9	28		154	455	11+50.00	19	0
130+00.00	0	68	156+00.00	5	34	180+00.00	6	85	204+00.00	9	22						

EARTHWORK FOR ABC PAVEMENT DESIGN.

NOTE: EMBANKMENT COLUMN DOES NOT INCLUDE BACKFILL FOR UNDERCUT

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

CROSS-SECTION SUMMARY

PROJ. REFERENCE NO.	SHEET NO.
R-2611	X-1D

Quantities are approximate only. The Resident Engineer will recross-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.

Station Y9	Uncl. Exc. (cu. yd.)	Embt (cu. yd.)
15+50.00	0	0
16+00.00	31	6

Station Y10	Uncl. Exc. (cu. yd.)	Embt (cu. yd.)
15+00.00	0	0
15+50.00	58	16
16+00.00	56	20
16+50.00	43	29
17+00.00	41	43
17+50.00	44	53
18+00.00	38	61
18+50.00	48	77
19+00.00	71	80
	399	379

Station Y11	Uncl. Exc. (cu. yd.)	Embt (cu. yd.)
10+50.00	0	0
11+00.00	29	73
11+50.00	25	71
12+00.00	10	76
	64	220

Station Y12	Uncl. Exc. (cu. yd.)	Embt (cu. yd.)
25+50.00	0	0
26+00.00	0	22
26+50.00	1	18
27+00.00	4	8
27+50.00	6	12
28+00.00	9	21
28+50.00	11	16
29+00.00	8	44
	39	141

Station Y13	Uncl. Exc. (cu. yd.)	Embt (cu. yd.)
11+00.00	0	0
11+50.00	6	112
12+00.00	6	74
12+50.00	11	47
13+00.00	22	9
13+50.00	14	23
14+00.00	3	31
14+50.00	7	23
15+00.00	6	24
15+50.00	5	20
	80	363

Station Y15	Uncl. Exc. (cu. yd.)	Embt (cu. yd.)
13+00.00	0	0
13+25.00	13	9

Station Rampa	Uncl. Exc. (cu. yd.)	Embt (cu. yd.)
21+00.00	0	0
21+50.00	11	14
22+00.00	13	44
22+50.00	13	71
23+00.00	11	79
23+50.00	8	85
24+00.00	8	70
24+50.00	8	49
25+00.00	12	33
25+50.00	22	29
26+00.00	42	64
26+50.00	66	88
27+00.00	78	100
27+50.00	45	129
28+00.00	9	151
28+50.00	8	150
29+00.00	6	119
29+50.00	21	79
30+00.00	19	86
30+50.00	0	86
	400	1526

Station Rampb & Lpb	Uncl. Exc. (cu. yd.)	Embt (cu. yd.)
24+50.00	0	0
25+00.00	8	7
25+50.00	10	12
26+00.00	113	117
26+50.00	220	209
27+00.53	175	193
27+50.00	88	162
28+00.00	43	208
28+50.00	30	292
29+00.00	28	314
29+50.00	20	294
30+00.00	35	226
30+50.00	47	235
31+00.00	36	317
31+50.00	17	407
	870	2993

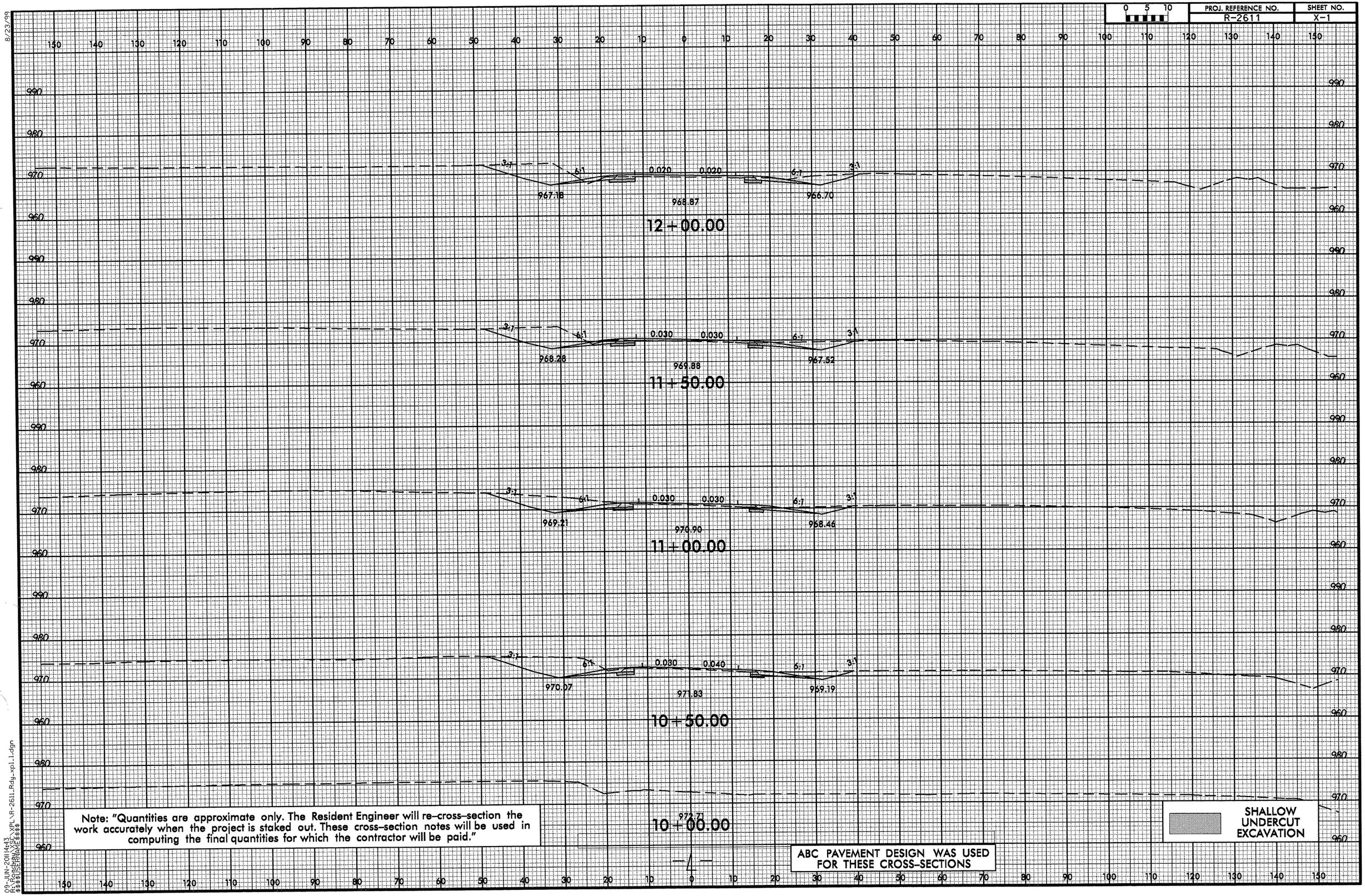
Station Loopb	Uncl. Exc. (cu. yd.)	Embt (cu. yd.)
15+00.00	0	0
15+50.00	17	287
16+00.00	15	270
	32	557

Station Enduradr1	Uncl. Exc. (cu. yd.)	Embt (cu. yd.)
10+40.00	0	0
10+60.00	21	13
10+80.00	37	5
	58	18

Station Enduradr	Uncl. Exc. (cu. yd.)	Embt (cu. yd.)
10+60.00	0	0
10+80.00	0	80
11+00.00	1	30
11+20.00	10	9
	11	119

8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-2611	X-1



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."

ABC PAVEMENT DESIGN WAS USED FOR THESE CROSS-SECTIONS

SHALLOW UNDERCUT EXCAVATION

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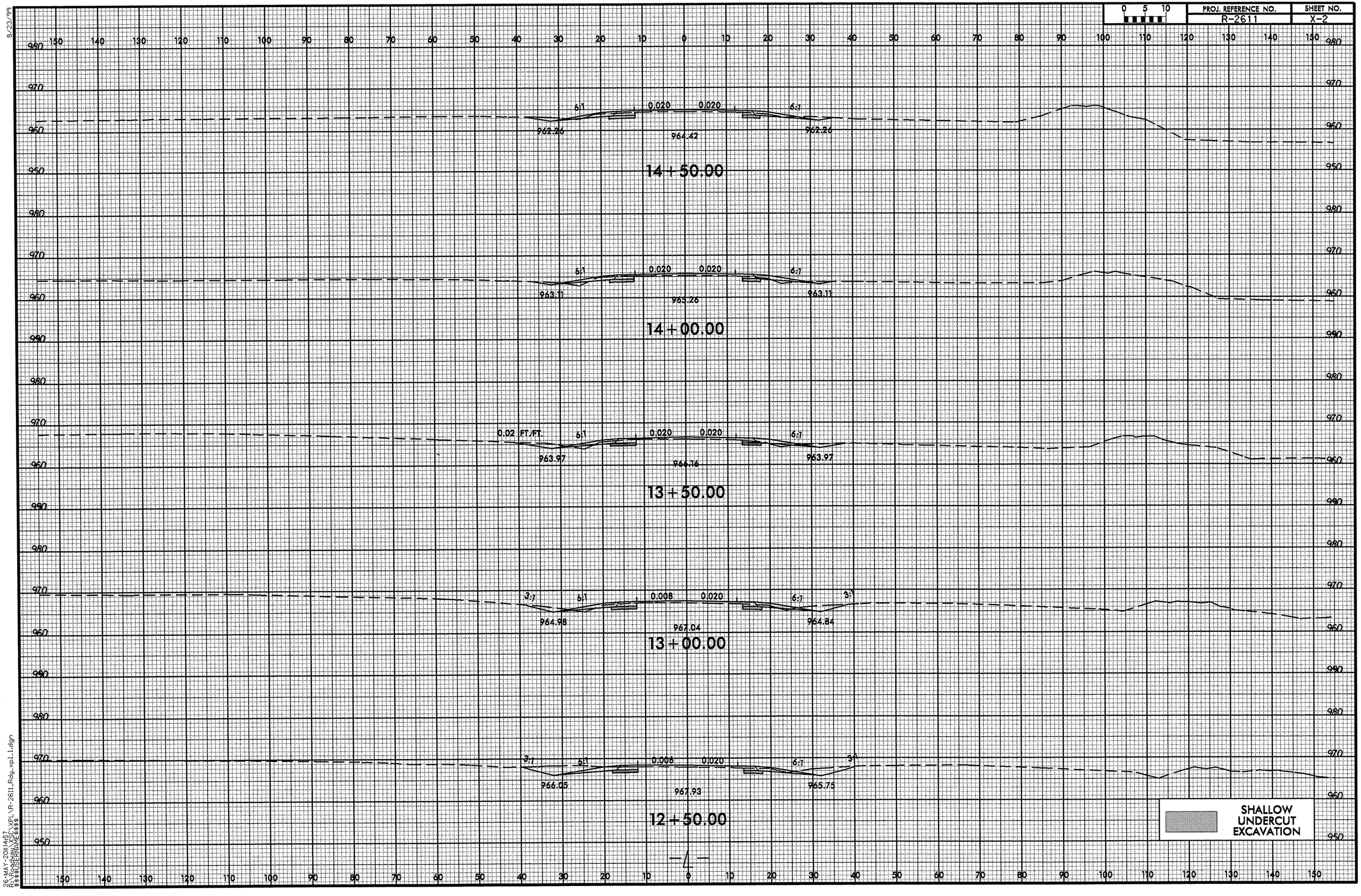
8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-2611	X-2



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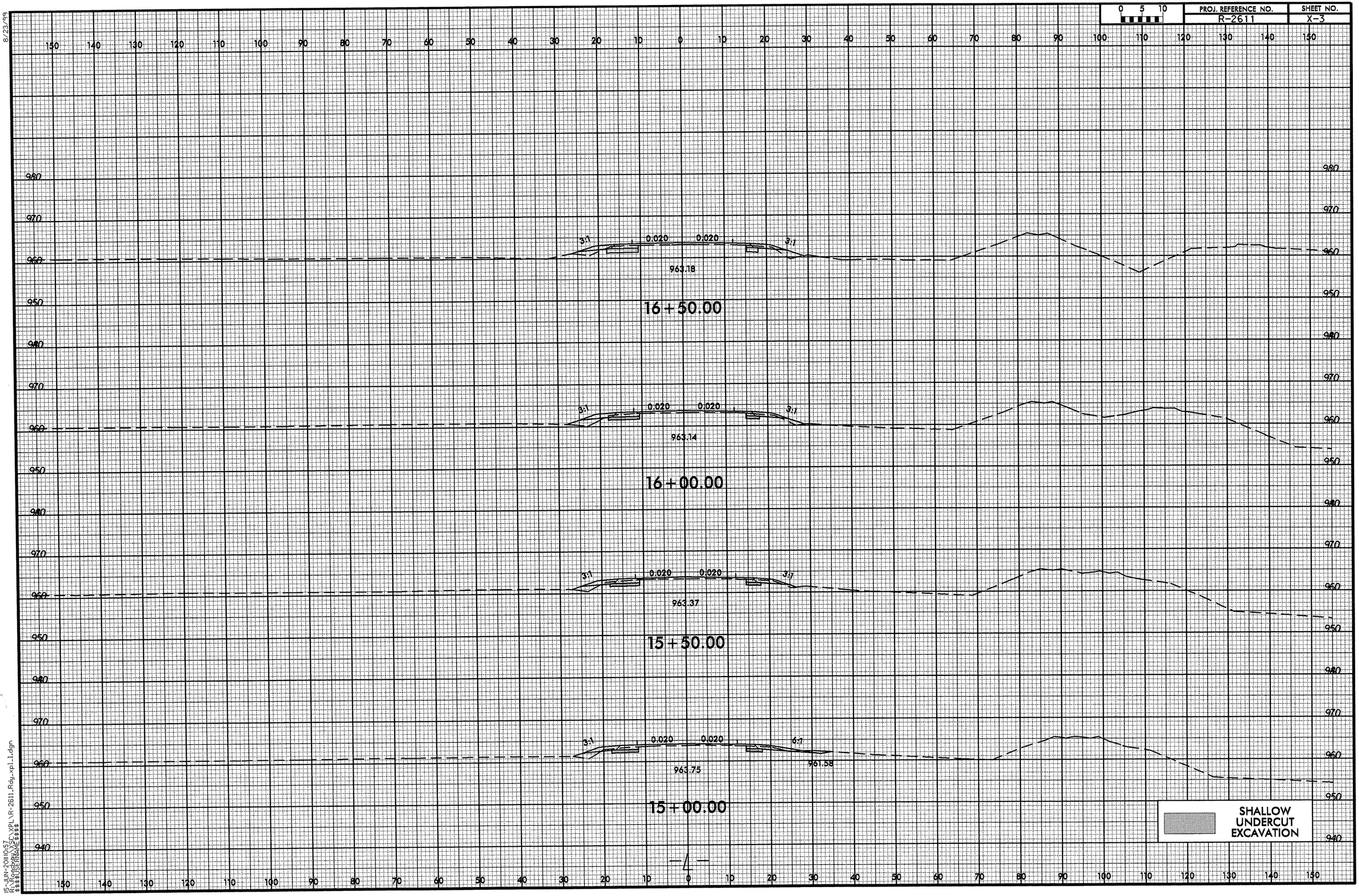

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8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-2611	X-4

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

990 980 970 960 950

6:1 0.015 0.020 6:1 0.05 FT/FT.

963.94 965.61 963.52

18+50.00

6:1 0.005 0.020 6:1

962.82 964.69 962.65

18+00.00

6:1 0.020 0.020 6:1

961.87 963.94 961.87

17+50.00

6:1 0.020 0.020 3:1

961.34 963.44

17+00.00

-4-

15-JUN-2011 10:57
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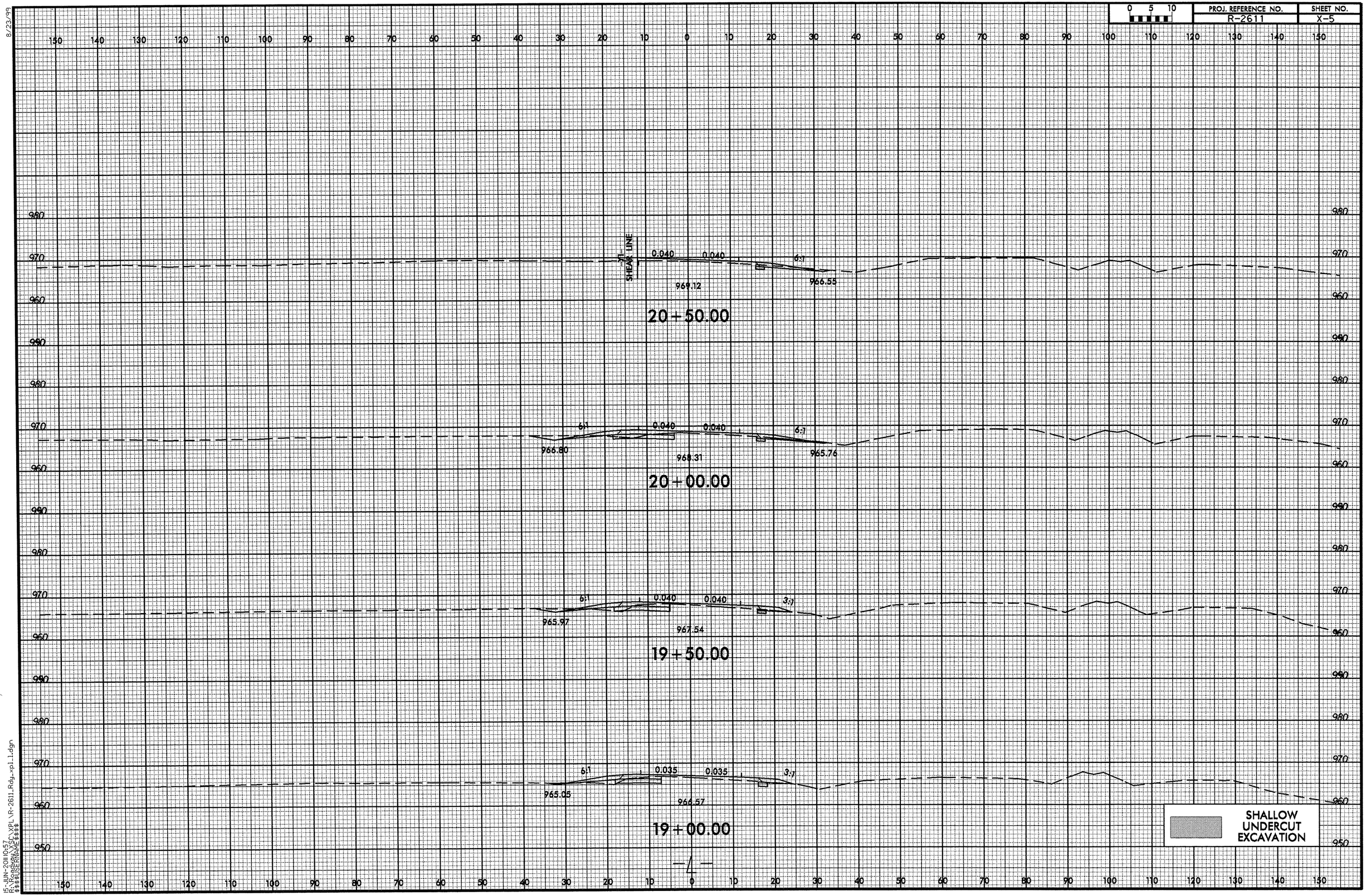
8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-2611	X-5



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8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-2611	X-6

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

990
980
970
960
950

A:1 0.025 0.025 6:1
970.65
968.66
22+50.00

A:1 0.040 0.040 6:1
970.39
968.23
22+00.00

A:1 0.040 0.040 6:1
970.26
967.86
21+50.00

A:1 0.040 0.040 6:1
969.81
967.30
21+00.00

SHALLOW UNDERCUT EXCAVATION

4

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

15-JUN-2011 10:57
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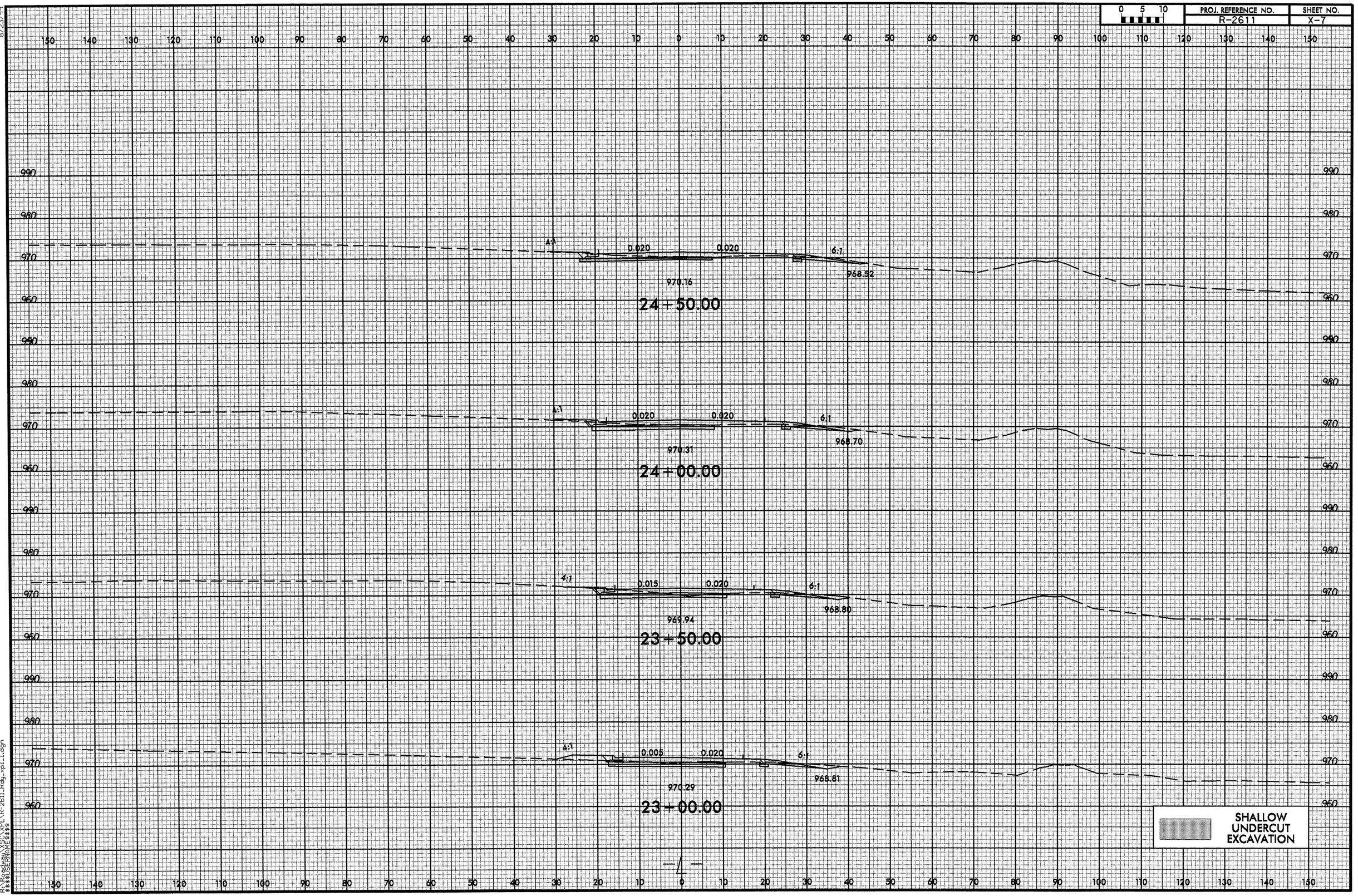
8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-2611	X-7



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8/23/99

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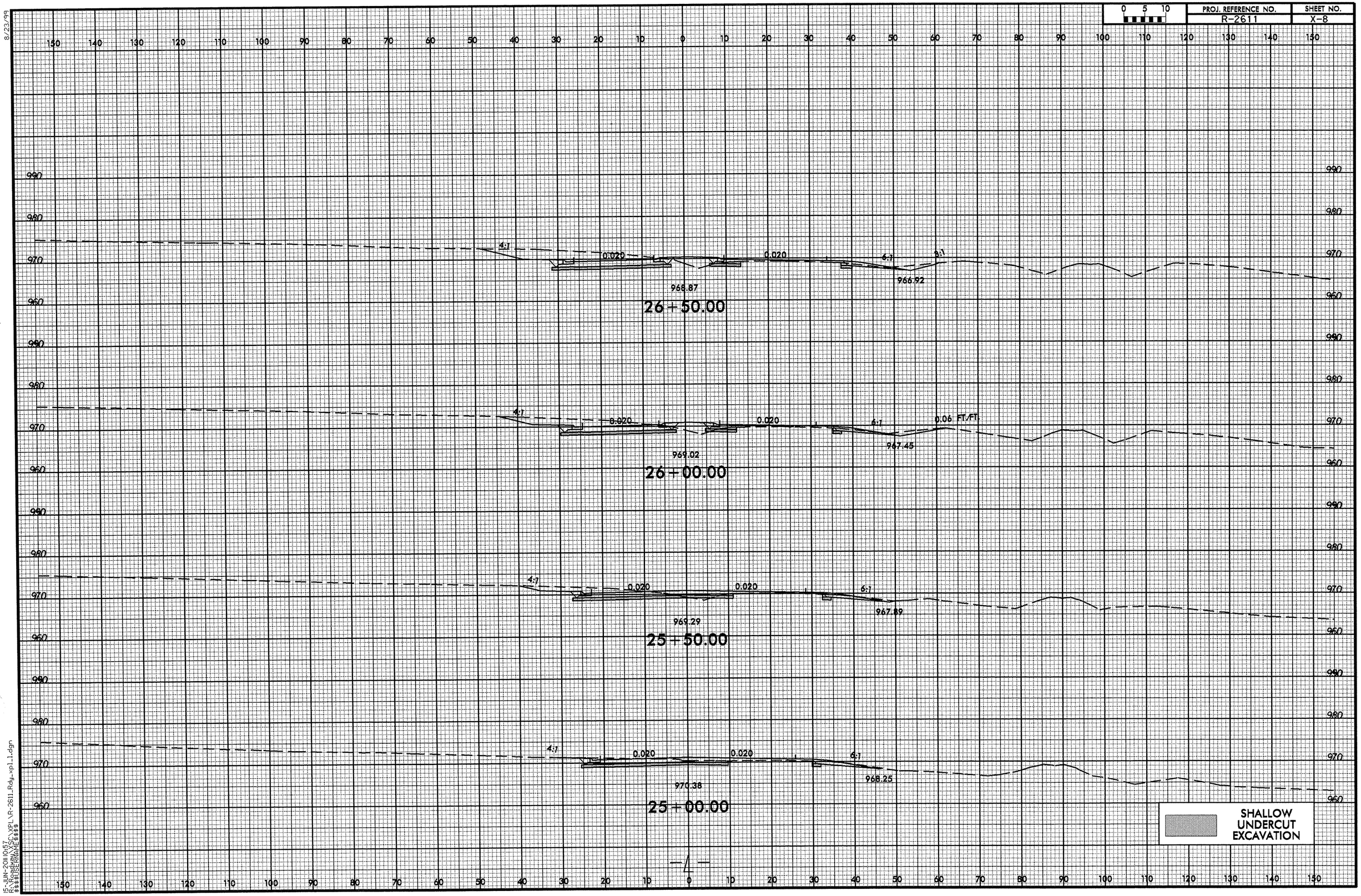
	R-2611	X-8



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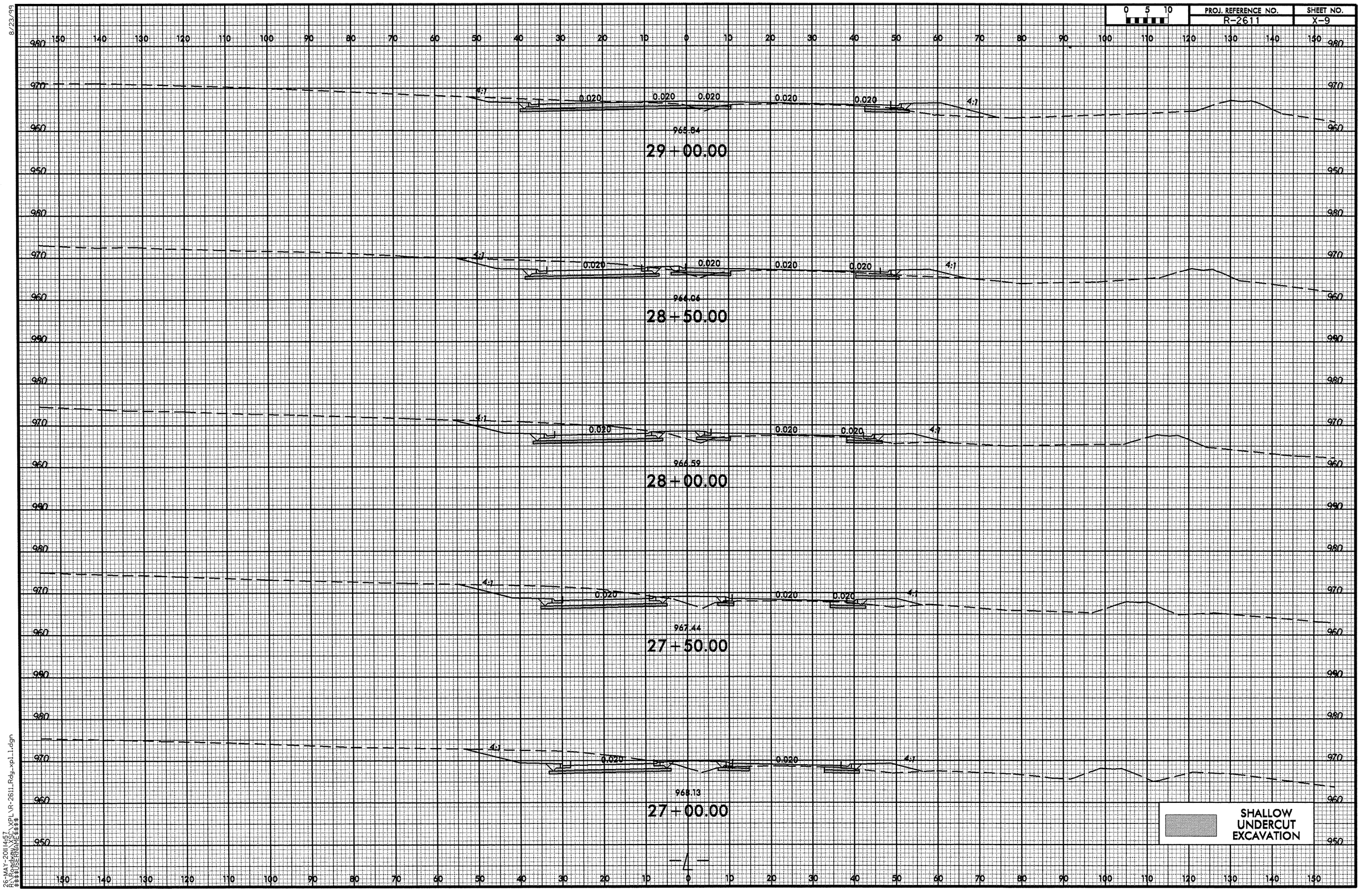

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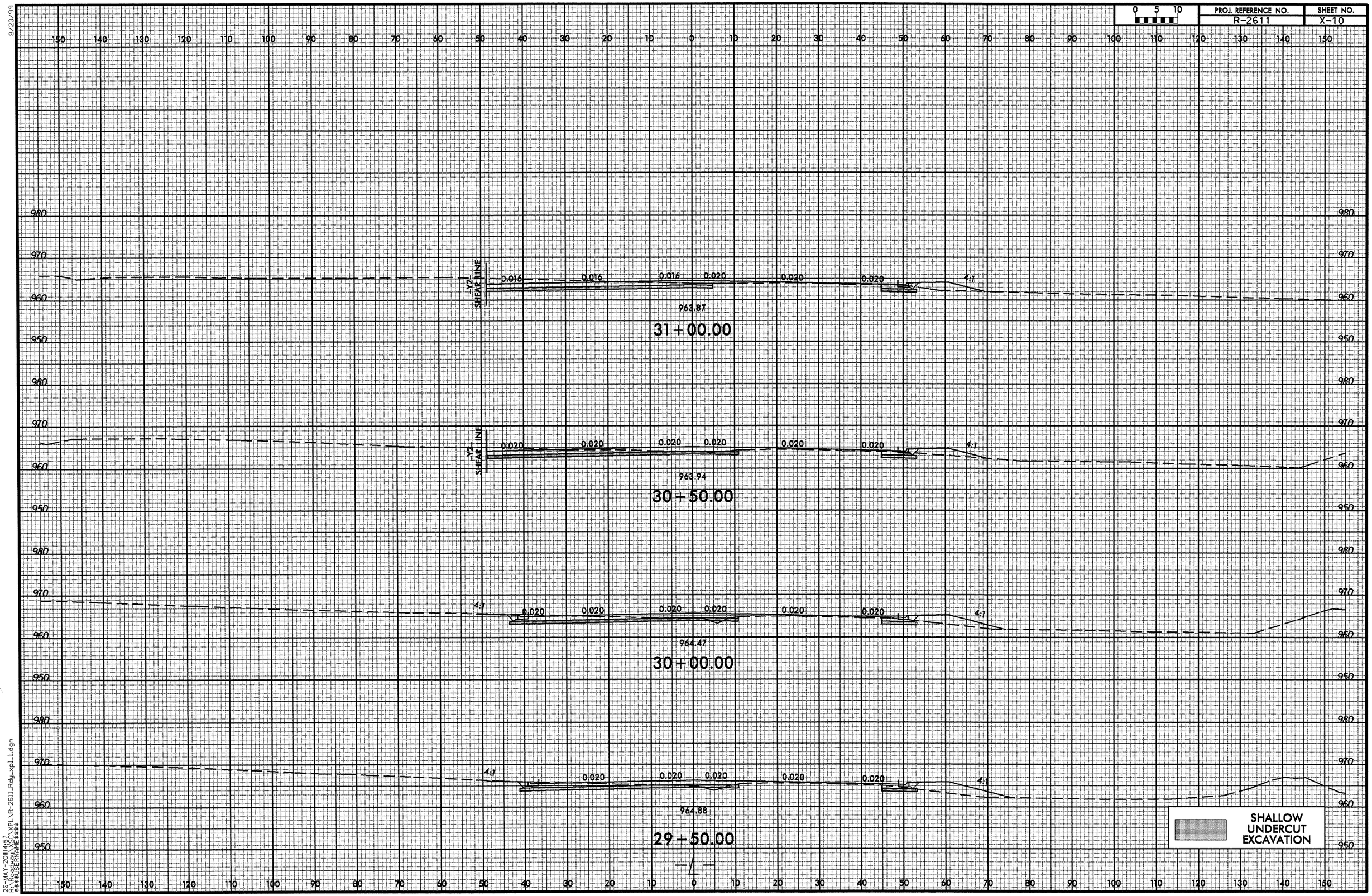

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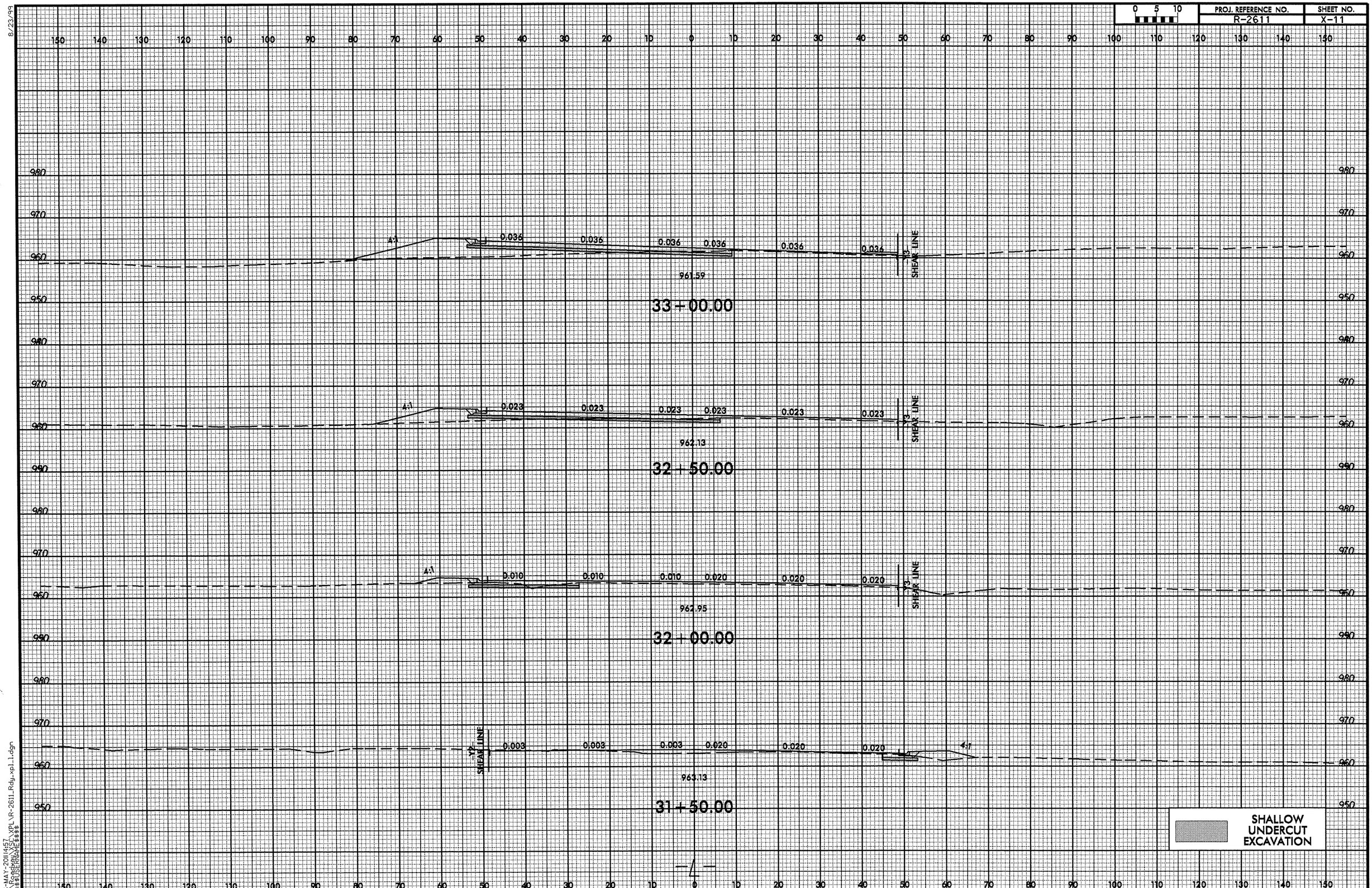

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8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-2611	X-12

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

980 970 960 950 940

4:1 0.040 0.040 0.040 0.040 0.040 4:1

960.44

35+00.00

960.47

34+50.00

960.57

34+00.00

961.03

SHEAR LINE

33+50.00

SHALLOW UNDERCUT EXCAVATION

-4-

26-MAY-2011 14:57
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8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-2611	X-13

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

980 970 960 950

4:1 0.040 0.040 0.040 4:1

965.53

37+00.00

4:1 0.040 0.040 0.040 0.040 0.040 4:1

964.07

36+50.00

4:1 0.040 0.040 0.040 0.040 0.040 4:1

962.55

36+00.00

4:1 0.040 0.040 0.040 0.040 0.040 4:1

961.13

35+50.00

SHALLOW UNDERCUT EXCAVATION

26-MAY-2011457
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8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
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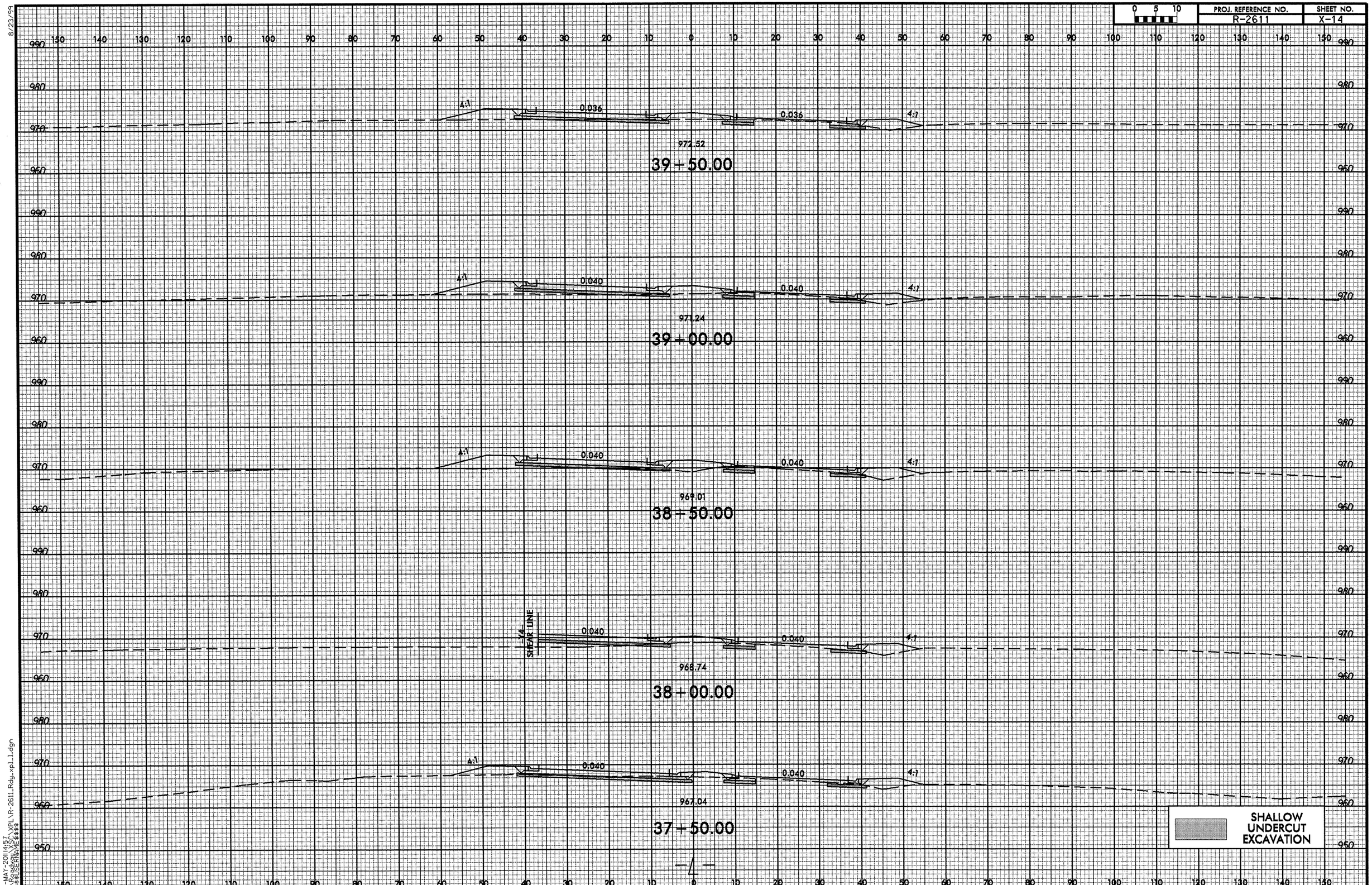

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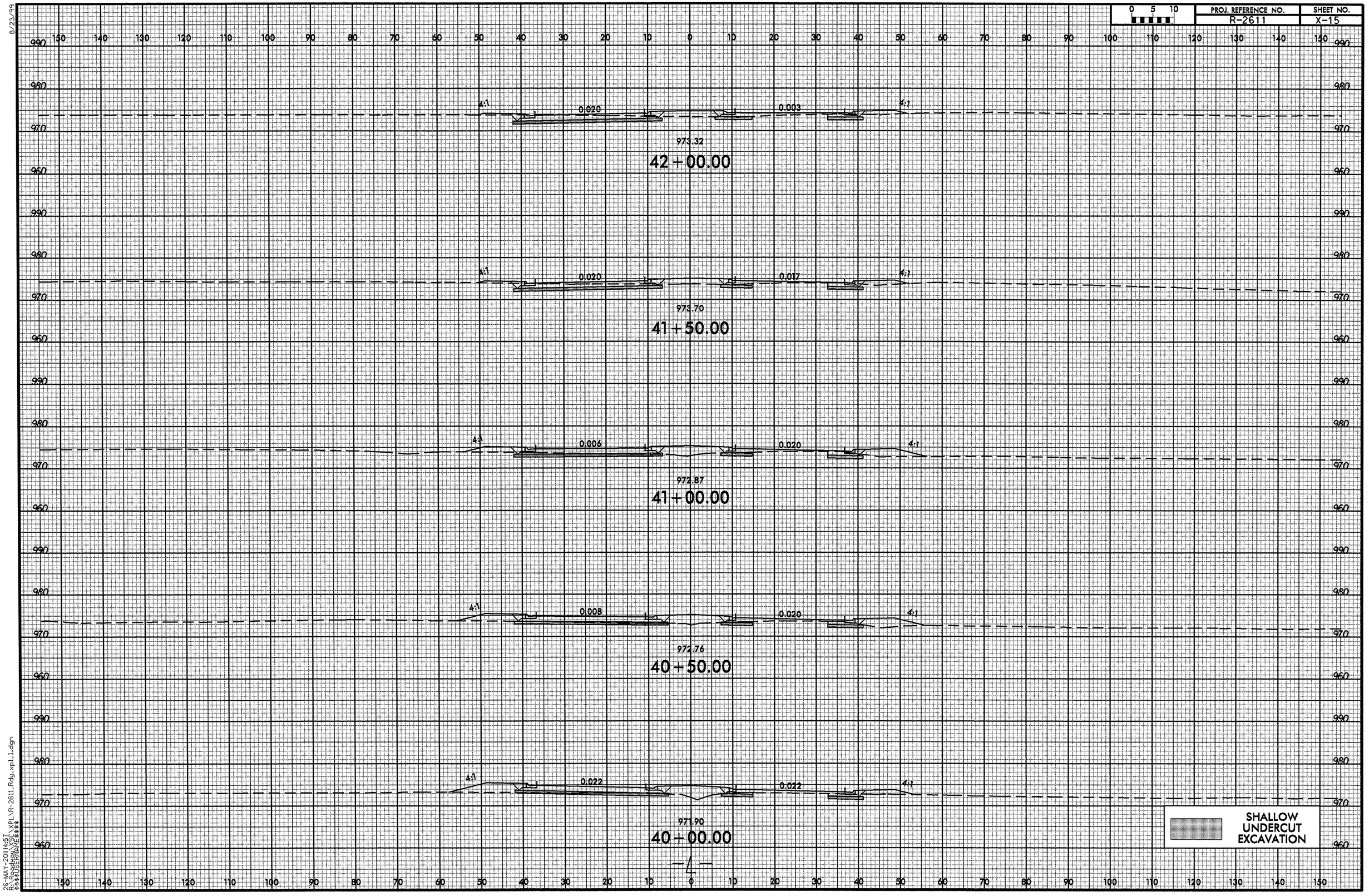

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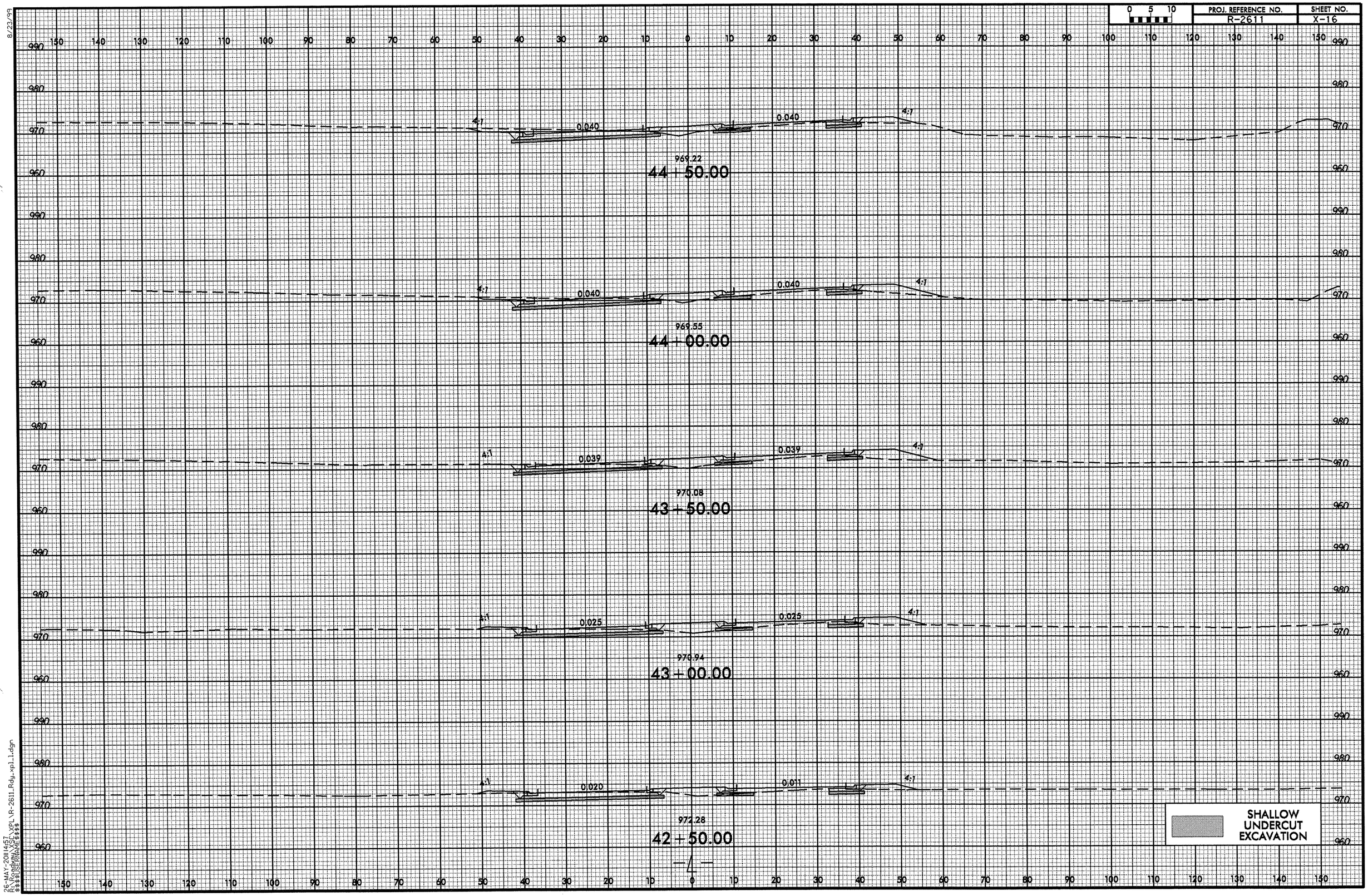

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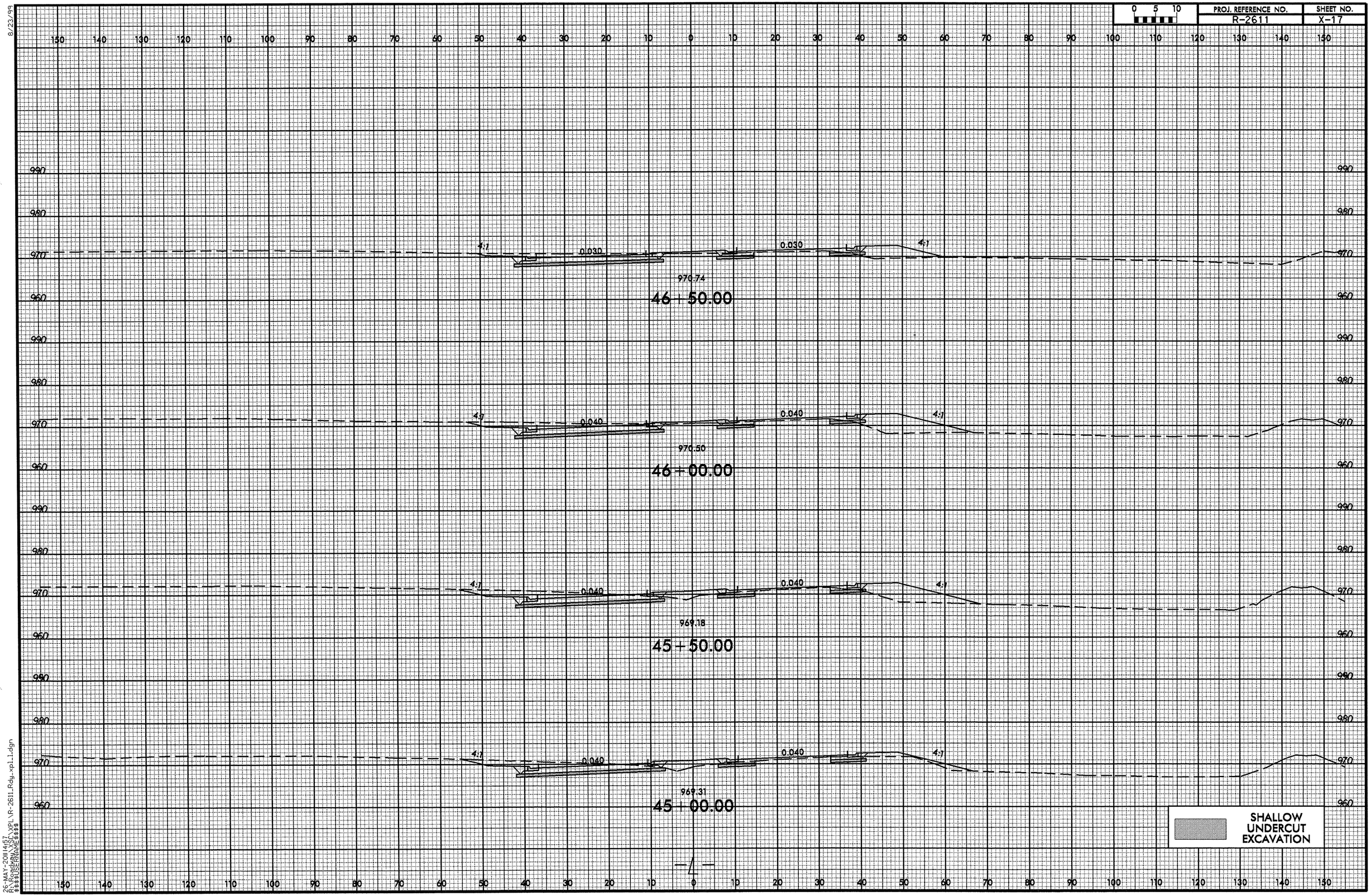

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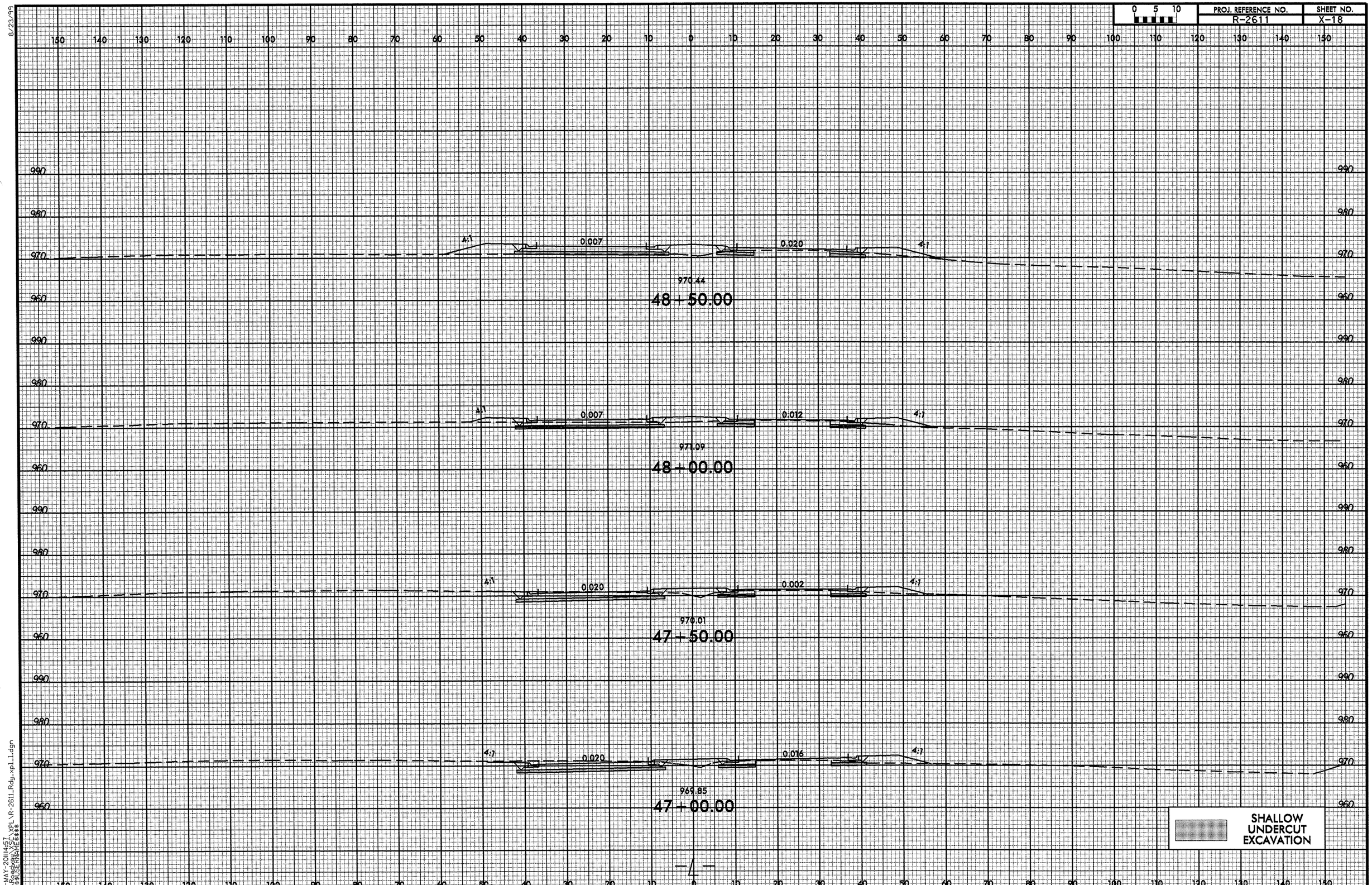

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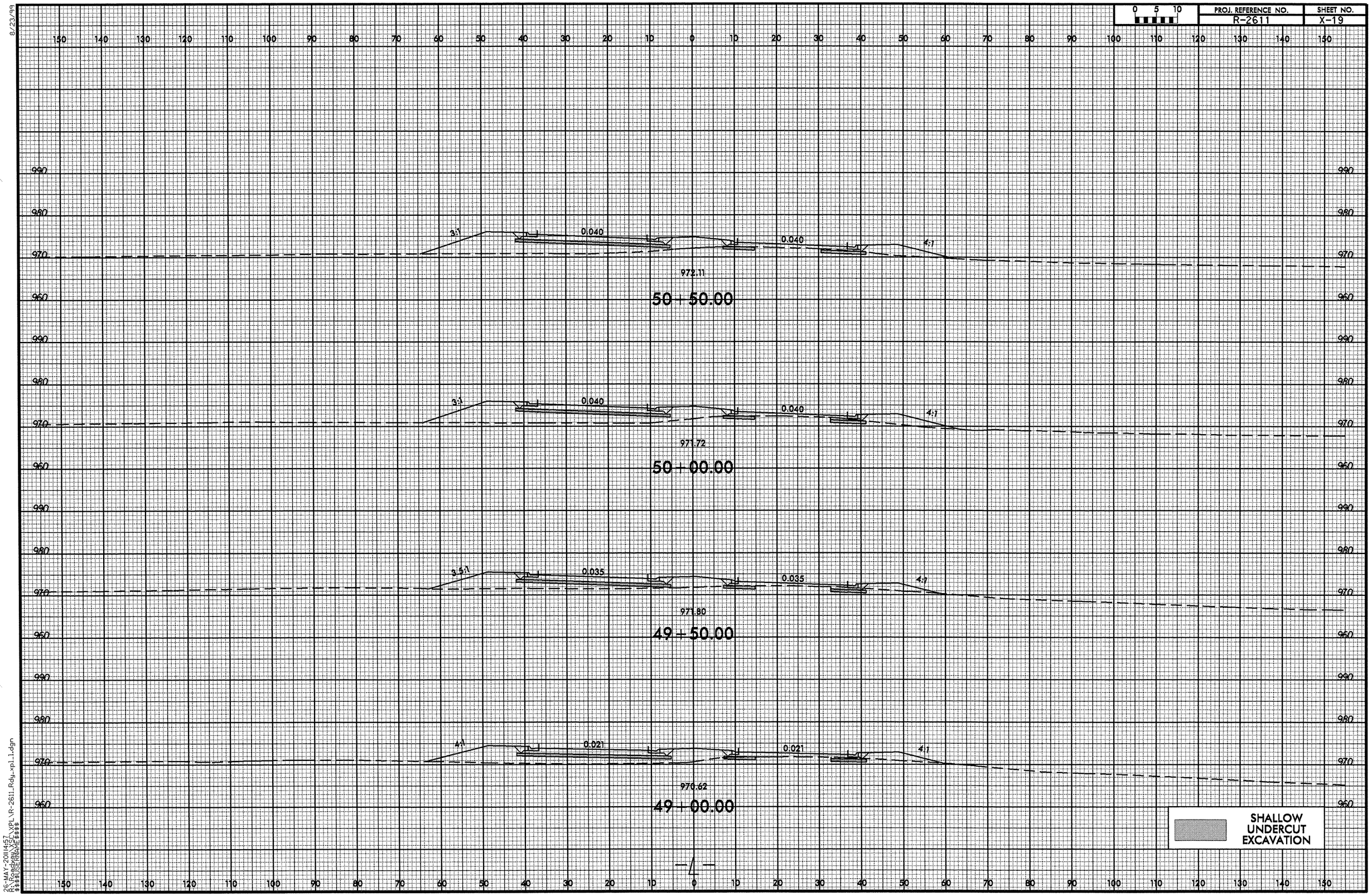

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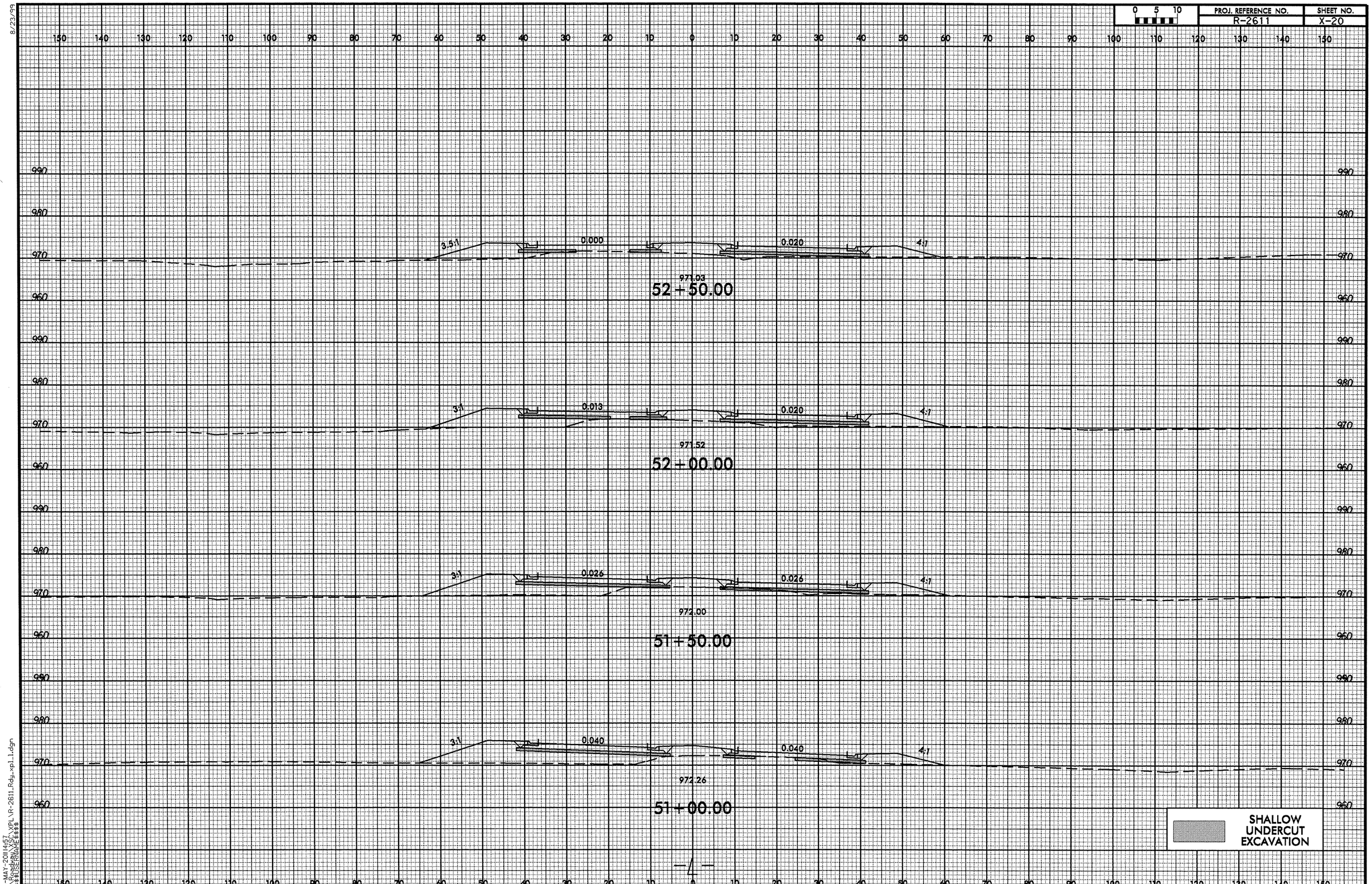
8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-2611	X-20



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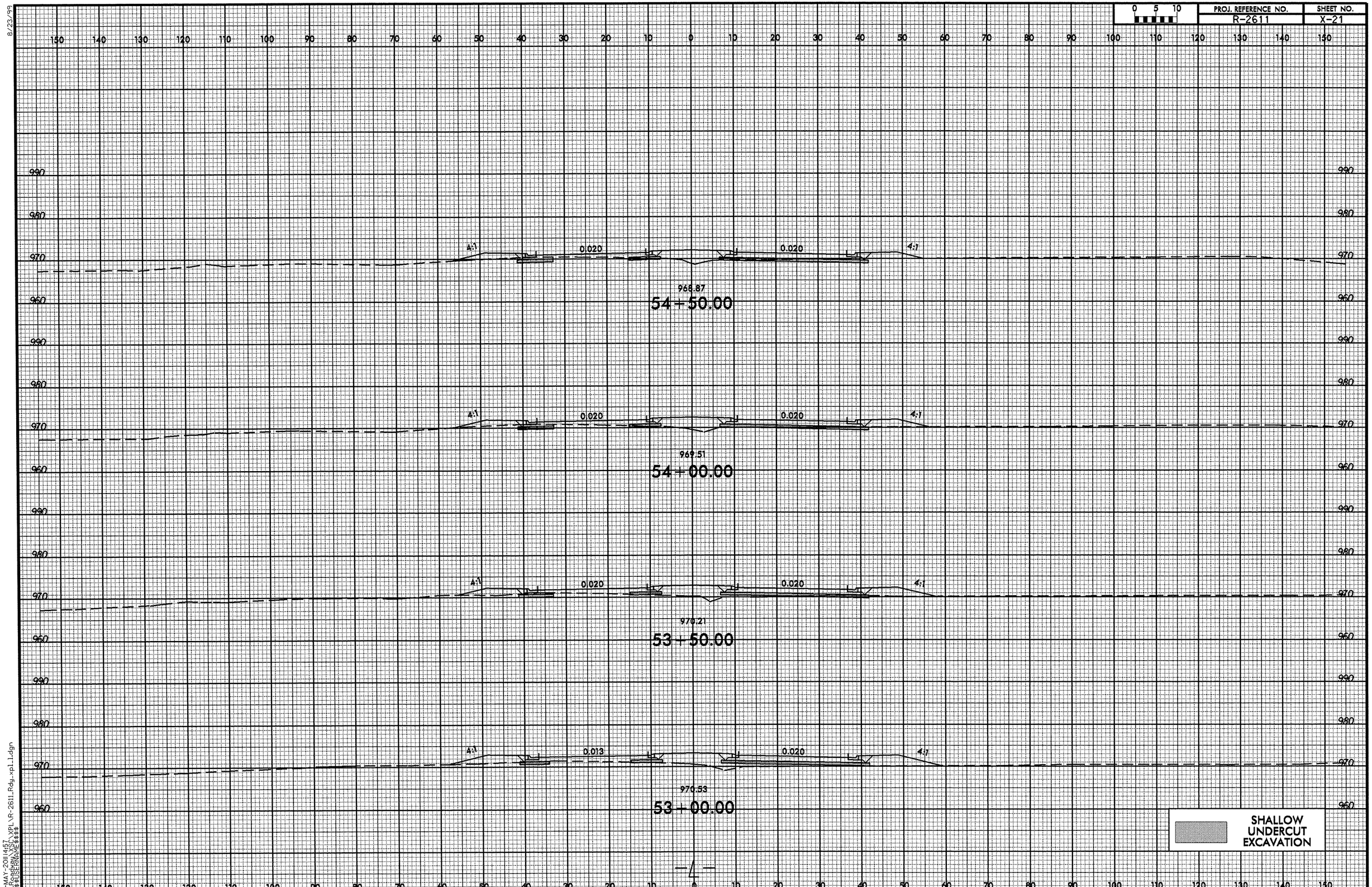
8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-2611	X-21



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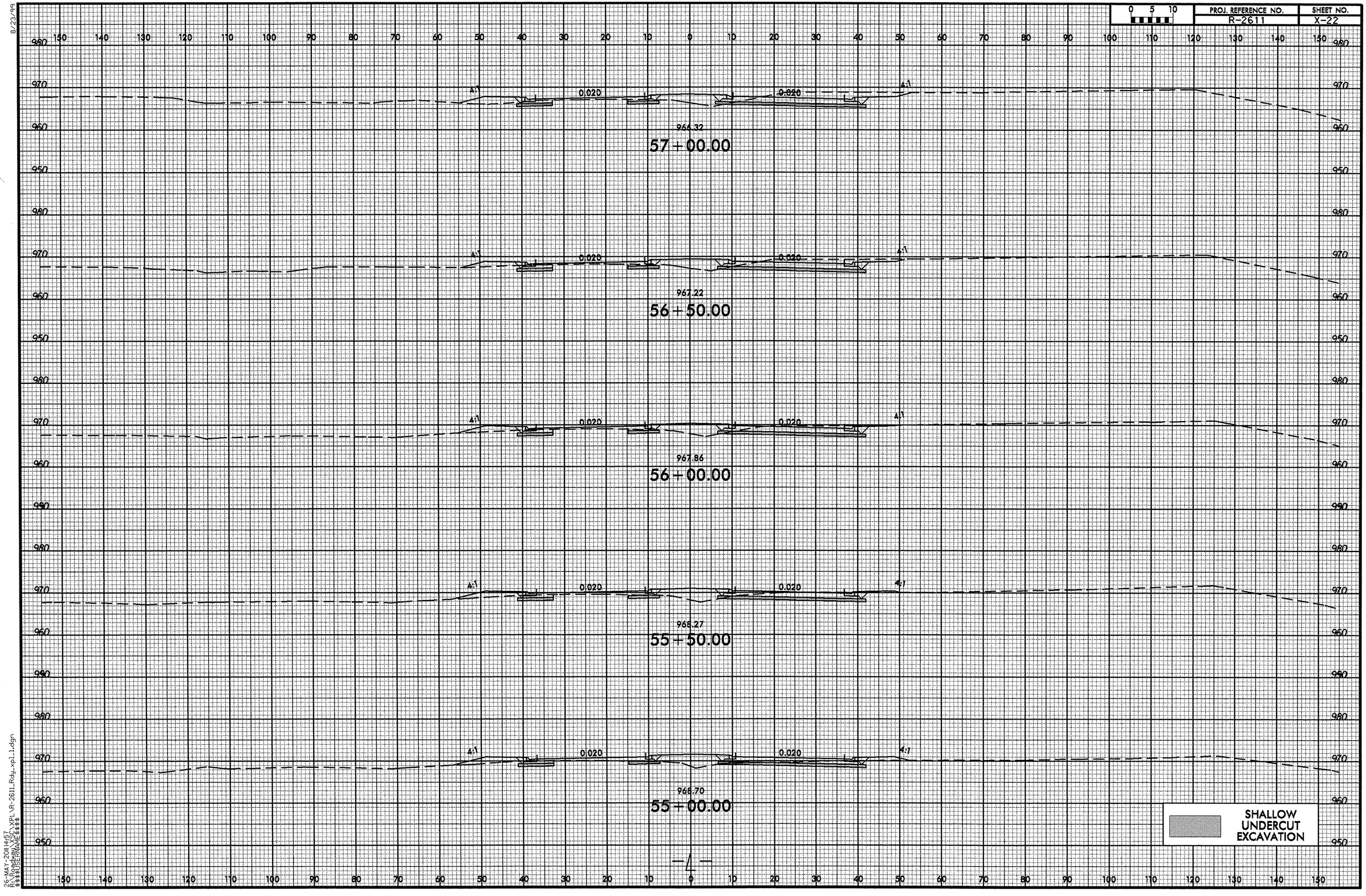
8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-2611	X-22



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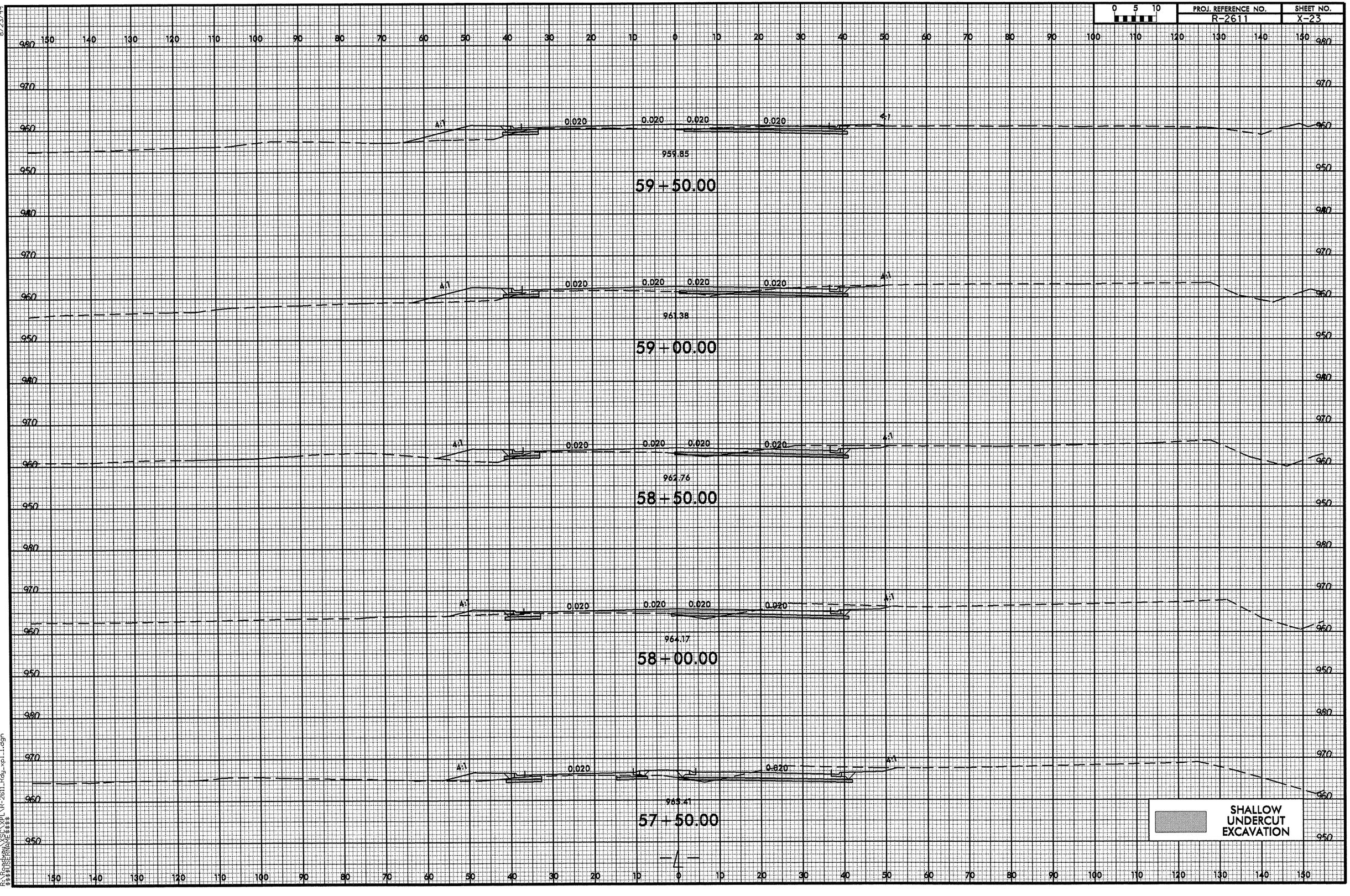
8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-2611	X-23



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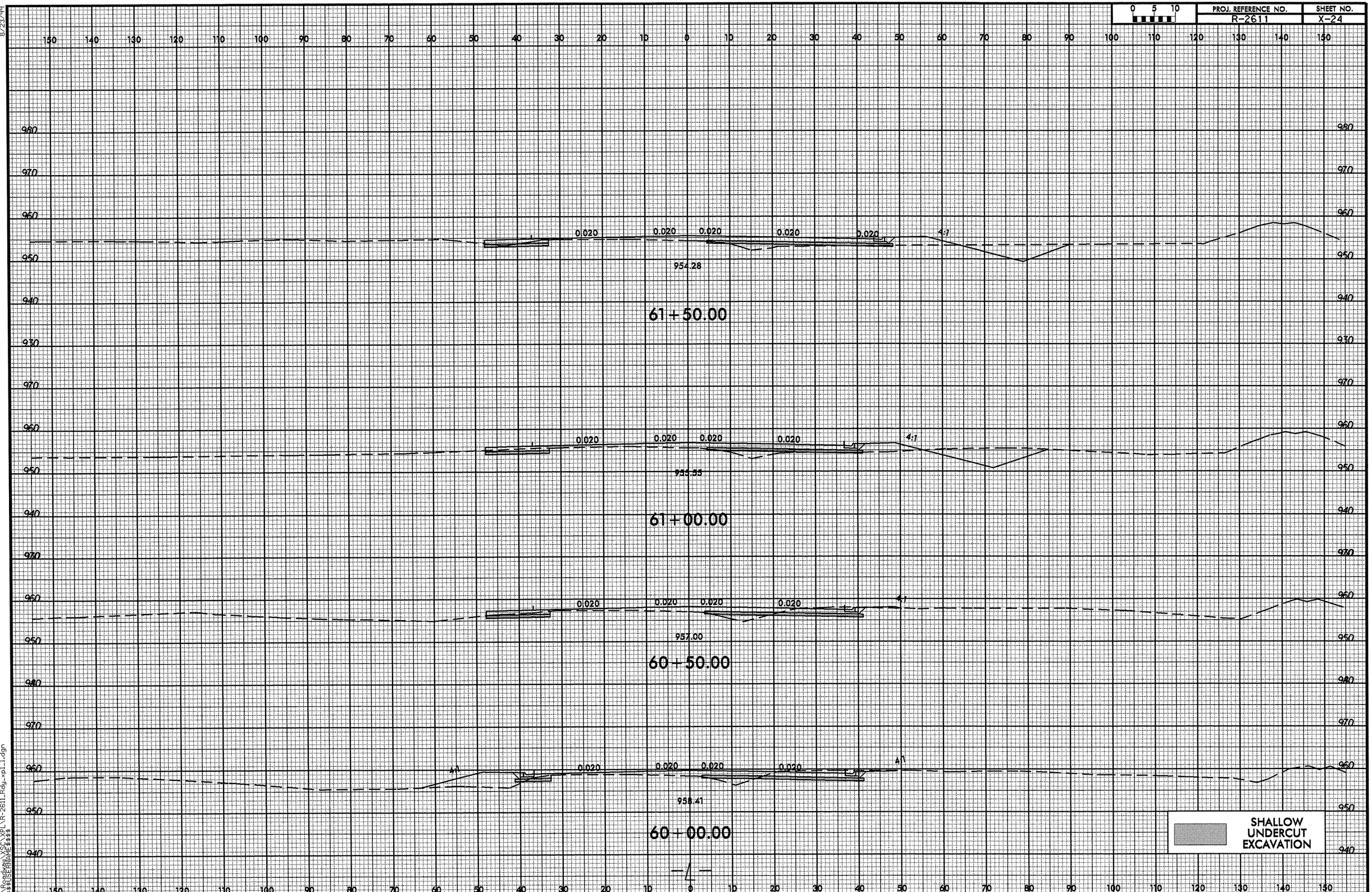

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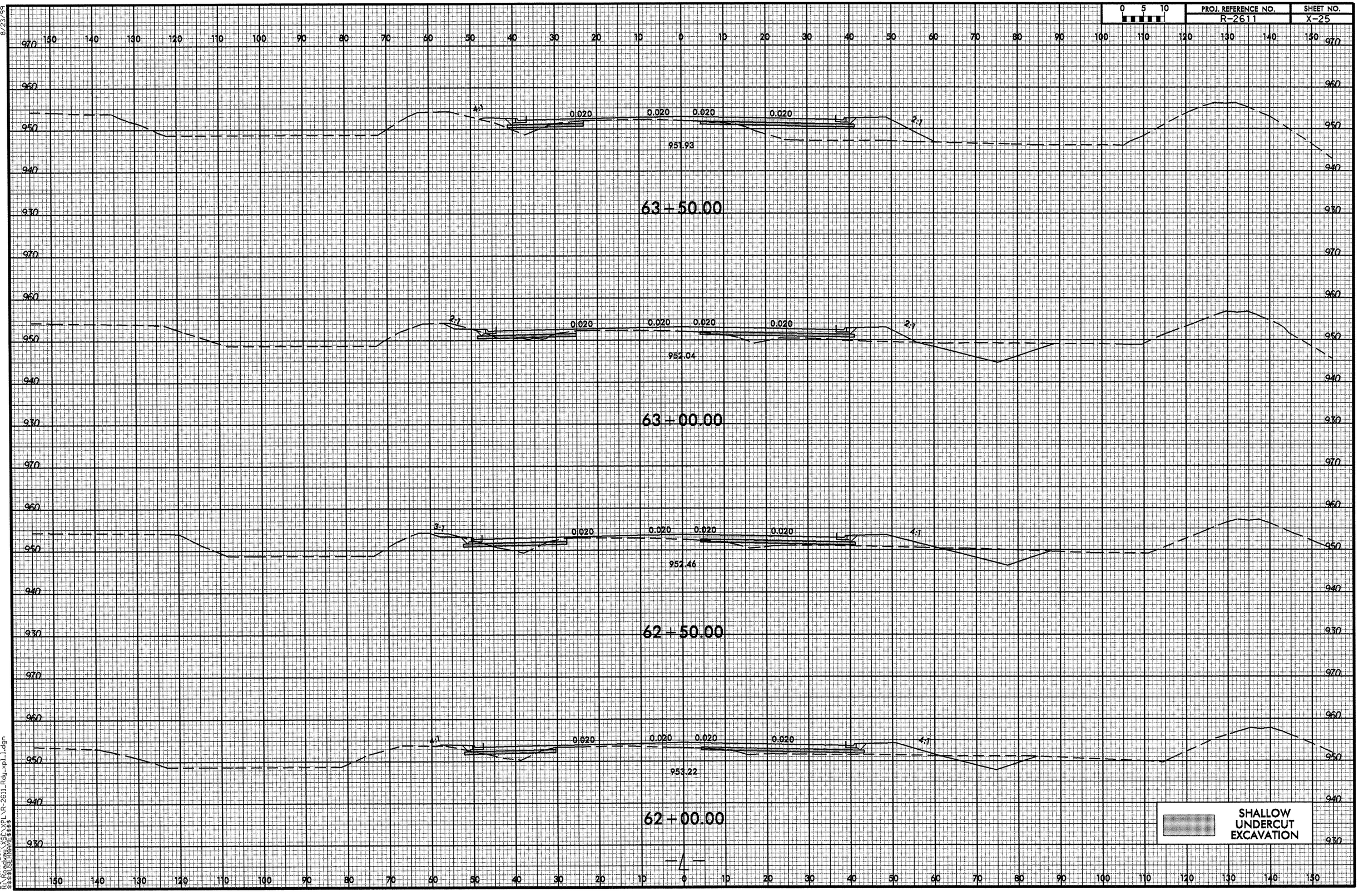
8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-2611	X-25



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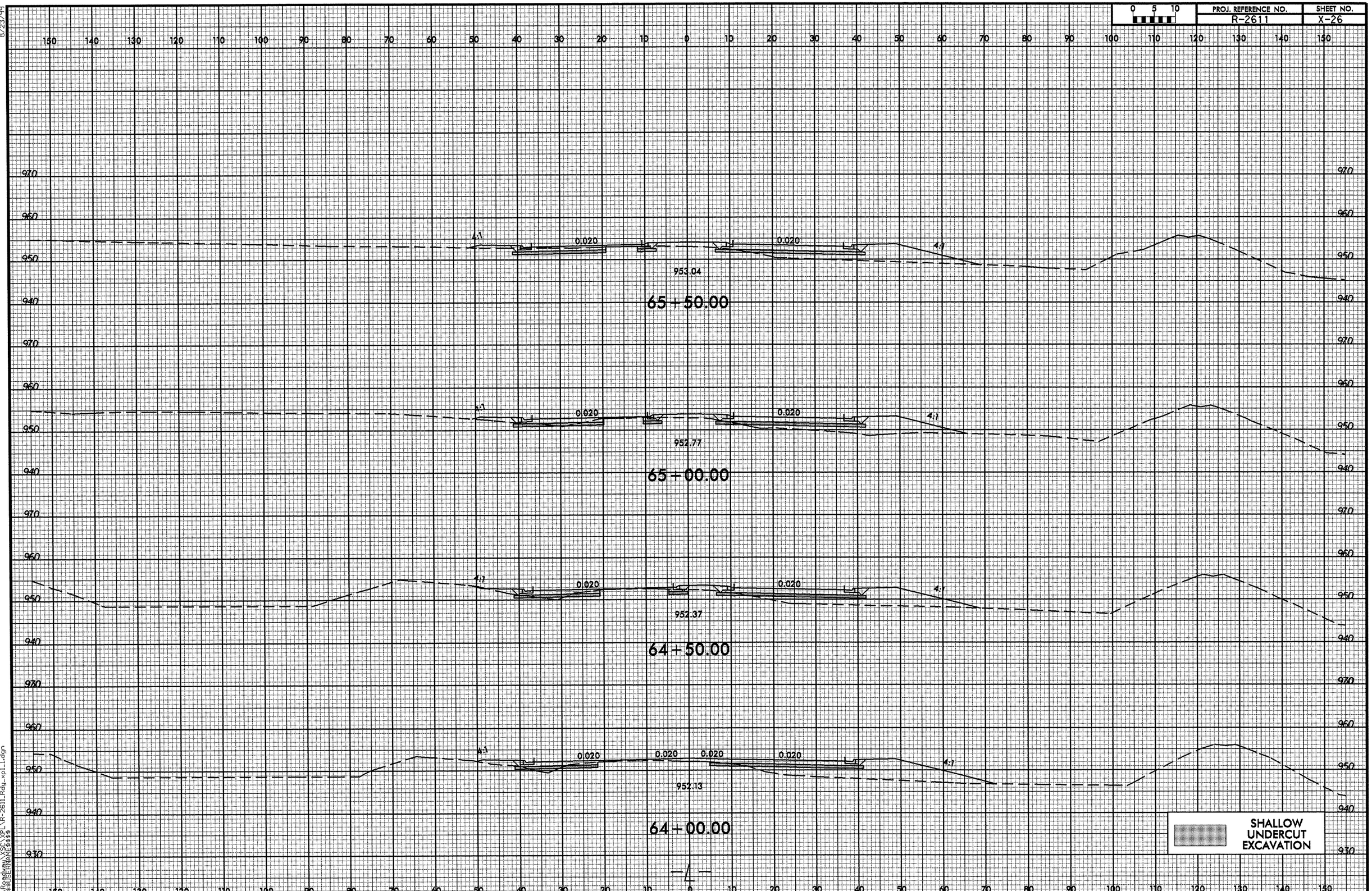
8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-2611	X-26



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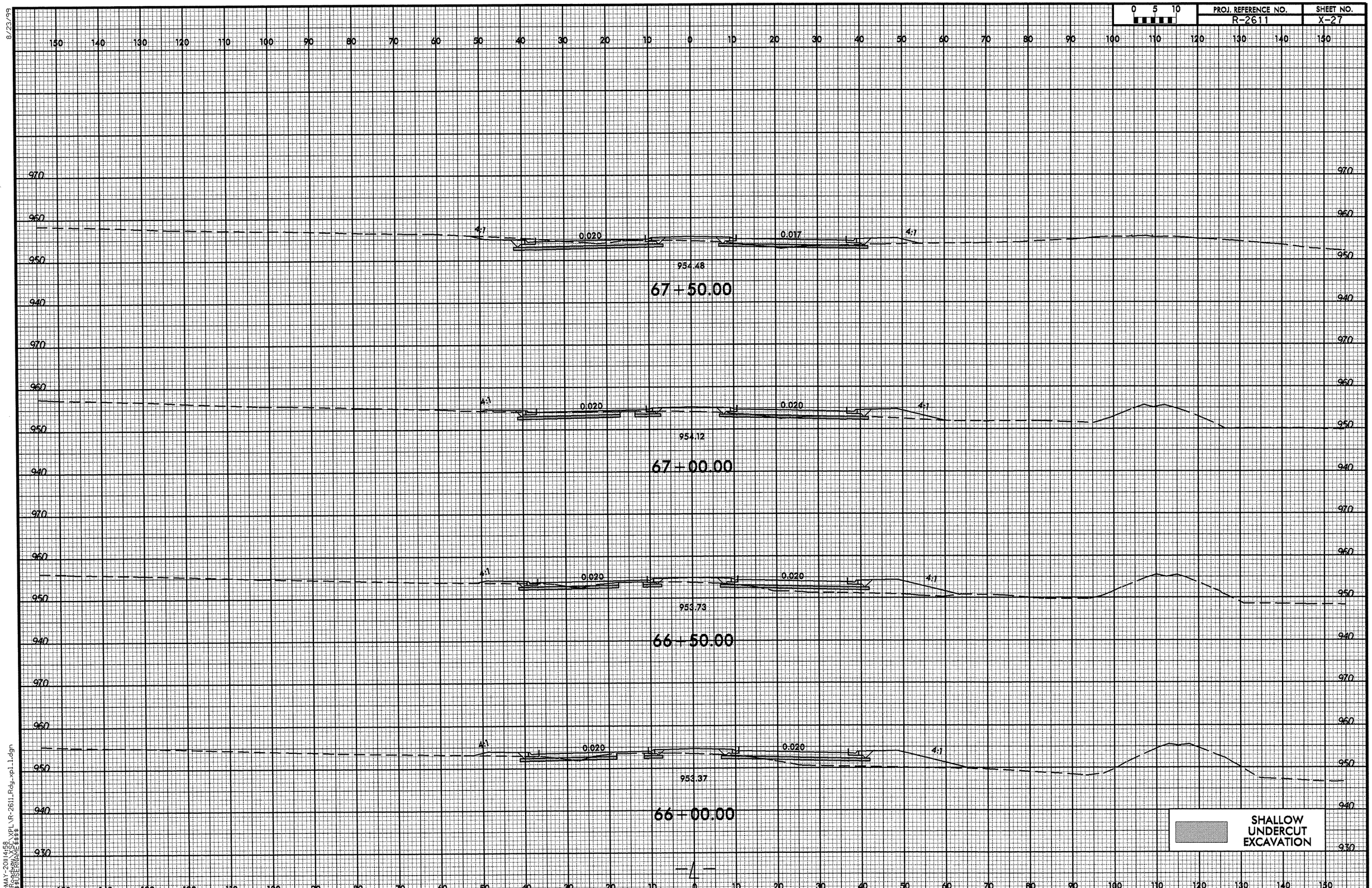

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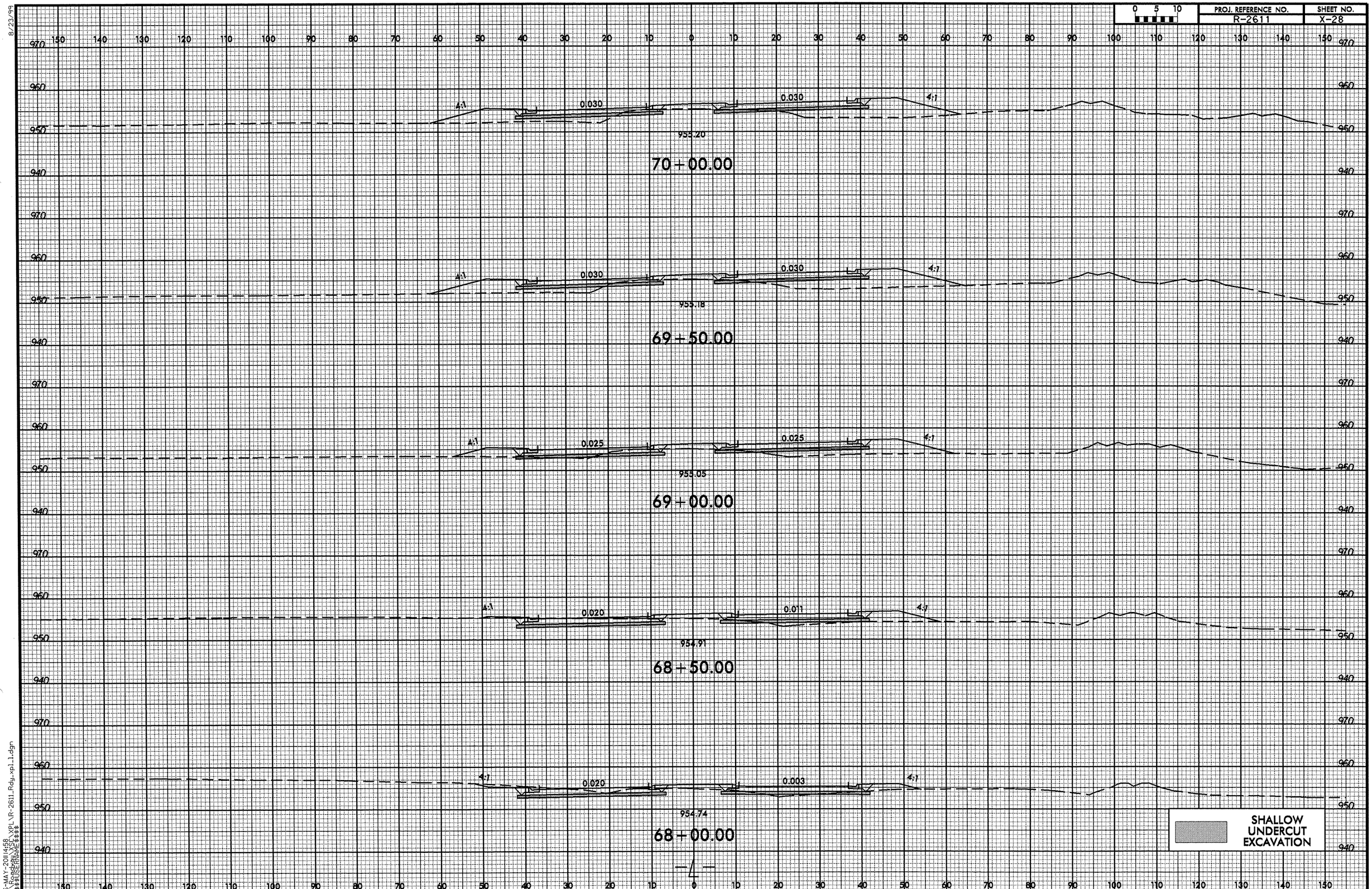
8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-2611	X-28



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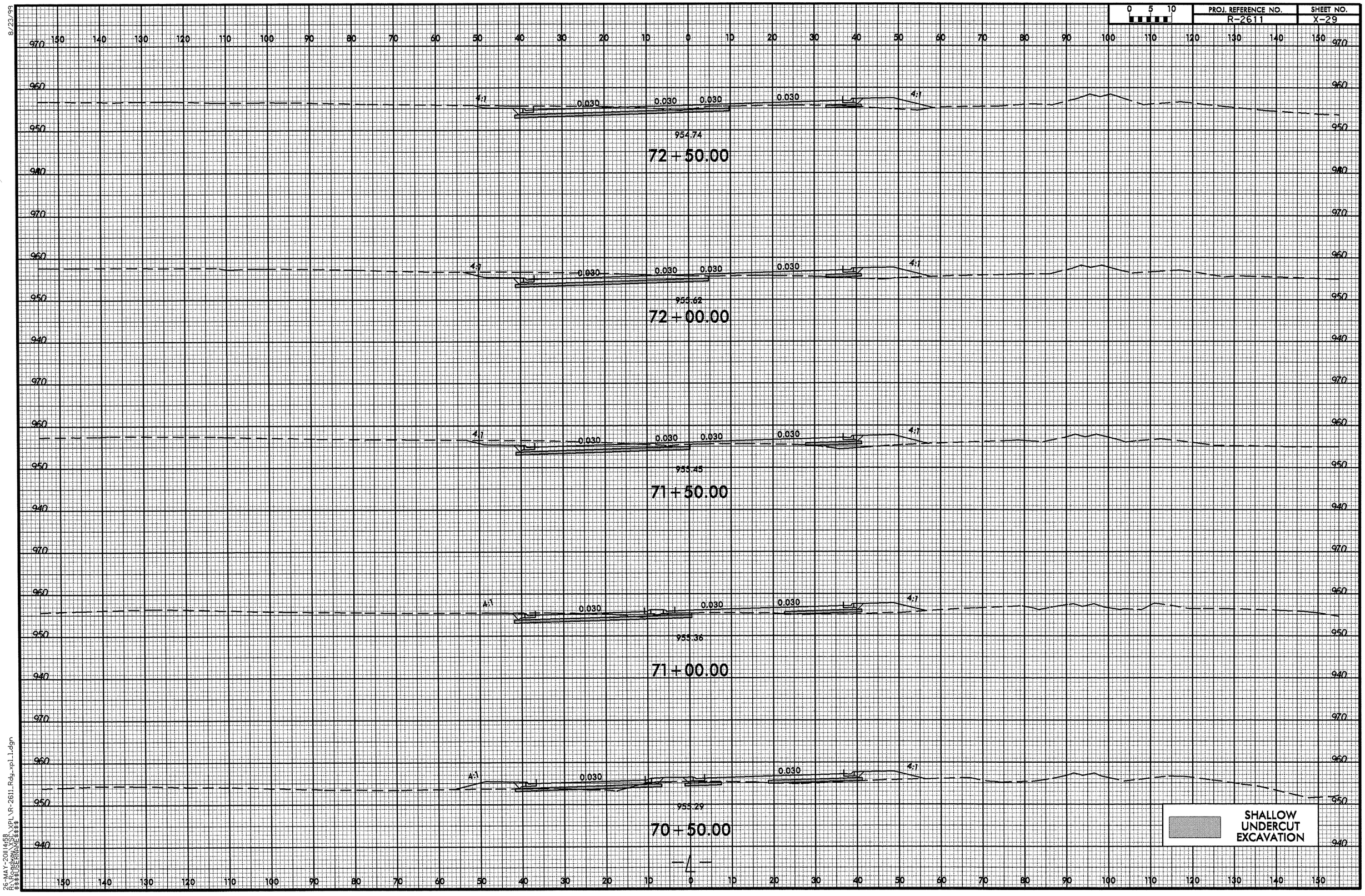
8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-2611	X-29



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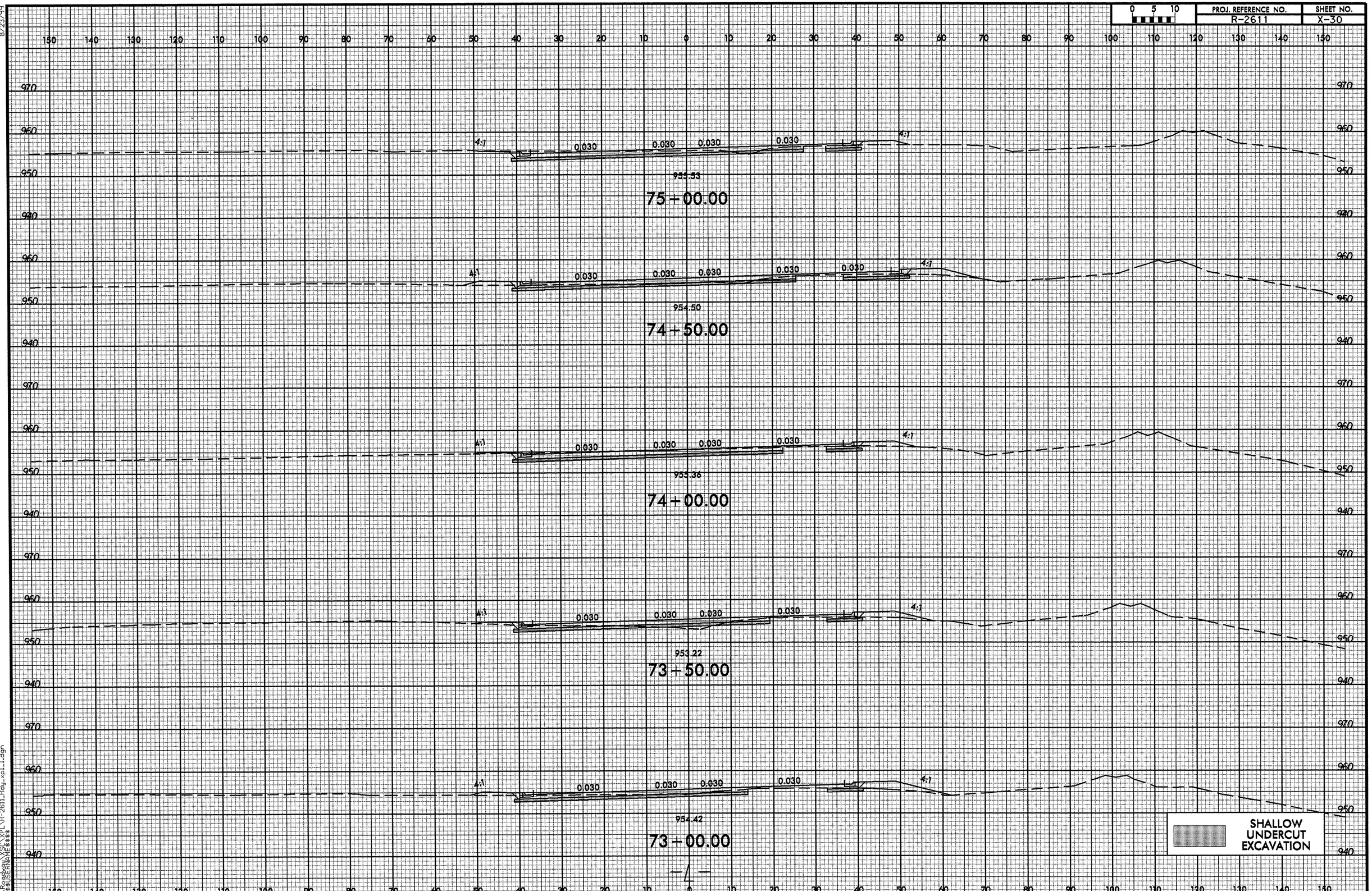
8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-2611	X-30



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8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-2611	X-31

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

960 970 960 950 940

4:1 0.030 0.030 0.030 0.030 4:1

960.12

77+00.00

970 960 950 940

4:1 0.030 0.030 0.030 0.030 4:1

959.18

76+50.00

960 950 940

4:1 0.030 0.030 0.030 0.030 4:1

957.95

76+00.00

960 950 940

4:1 0.030 0.030 0.030 0.030 4:1

956.82

75+50.00

SHALLOW UNDERCUT EXCAVATION

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

26-MAY-2011 14:58
R:\Roadway\XSL\XPL\R-2611_Rdy_xpl1.dgn
$$$$USERNAME$$$$

8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-2611	X-32

964.84

79+00.00

963.55

78+50.00

962.67

78+00.00

961.82

77+50.00

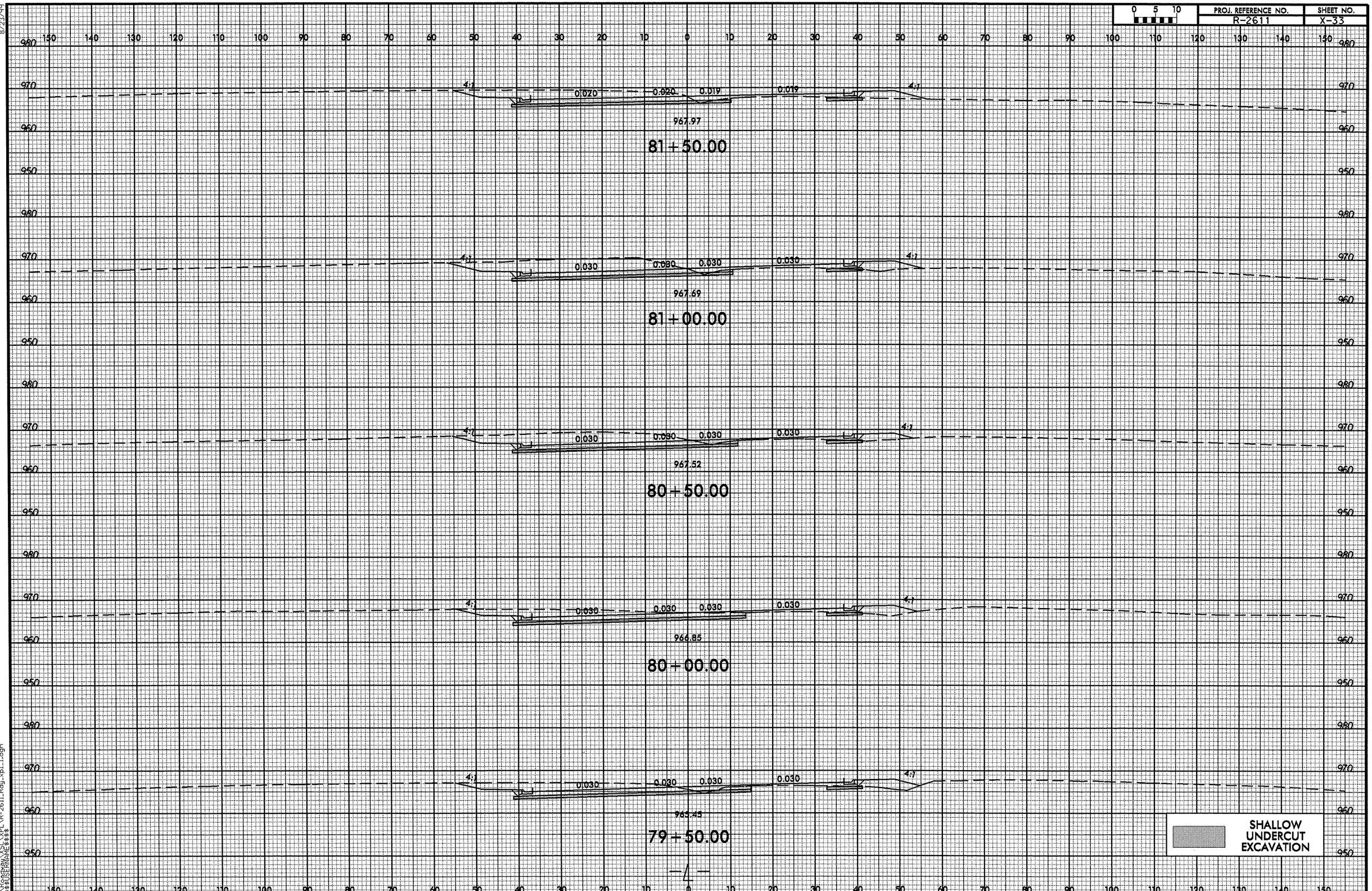
4:1 | 0.030 | 0.030 | 0.030 | 0.030 | 4:1

SHALLOW UNDERCUT EXCAVATION

26-MAY-2011458
R:\Roadway\XSC\XPL\R-2611_Rdy_xpl_1.dgn
$$$$USERNAME$$$$

8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-2611	X-33



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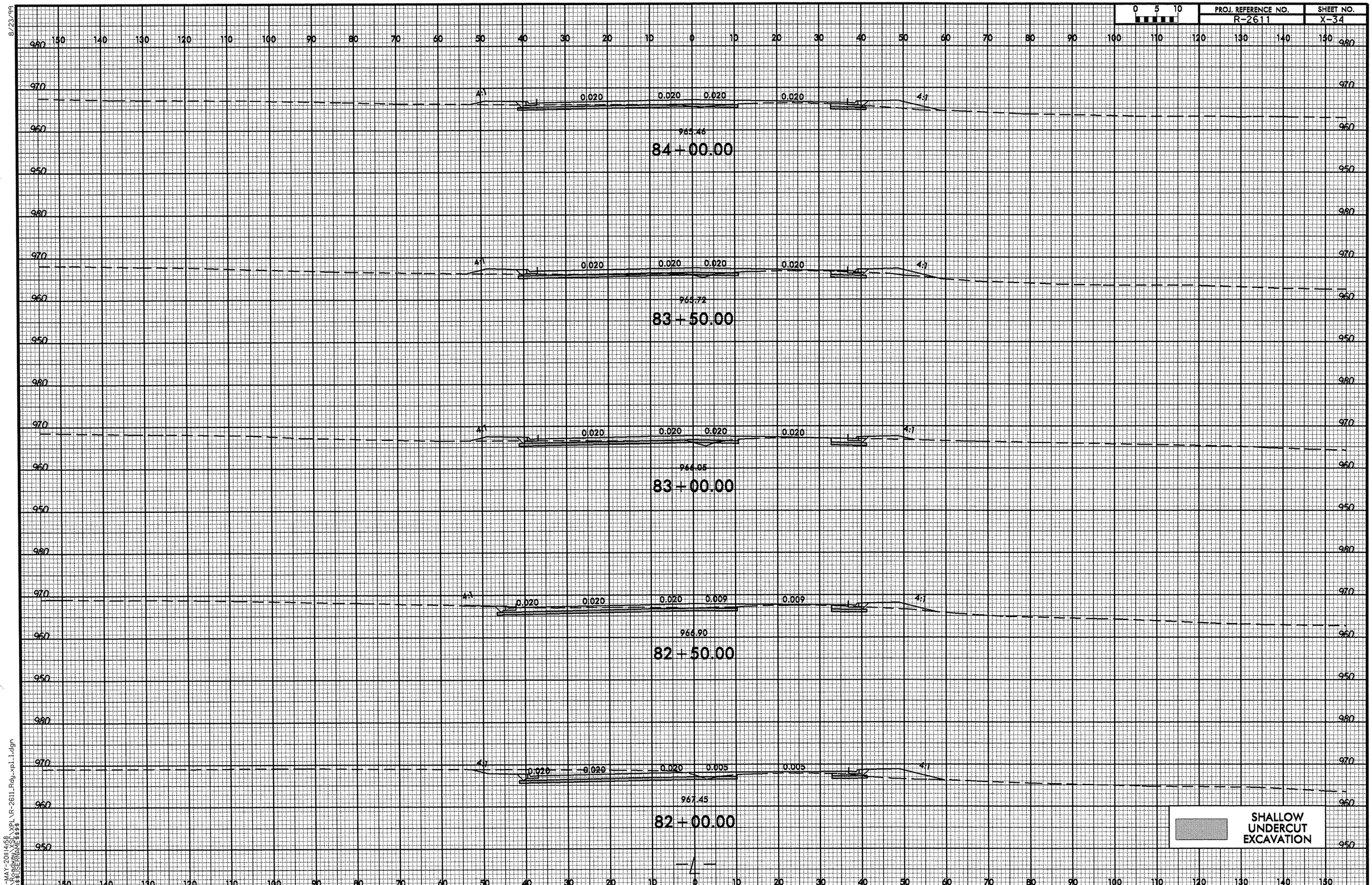
8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-2611	X-34



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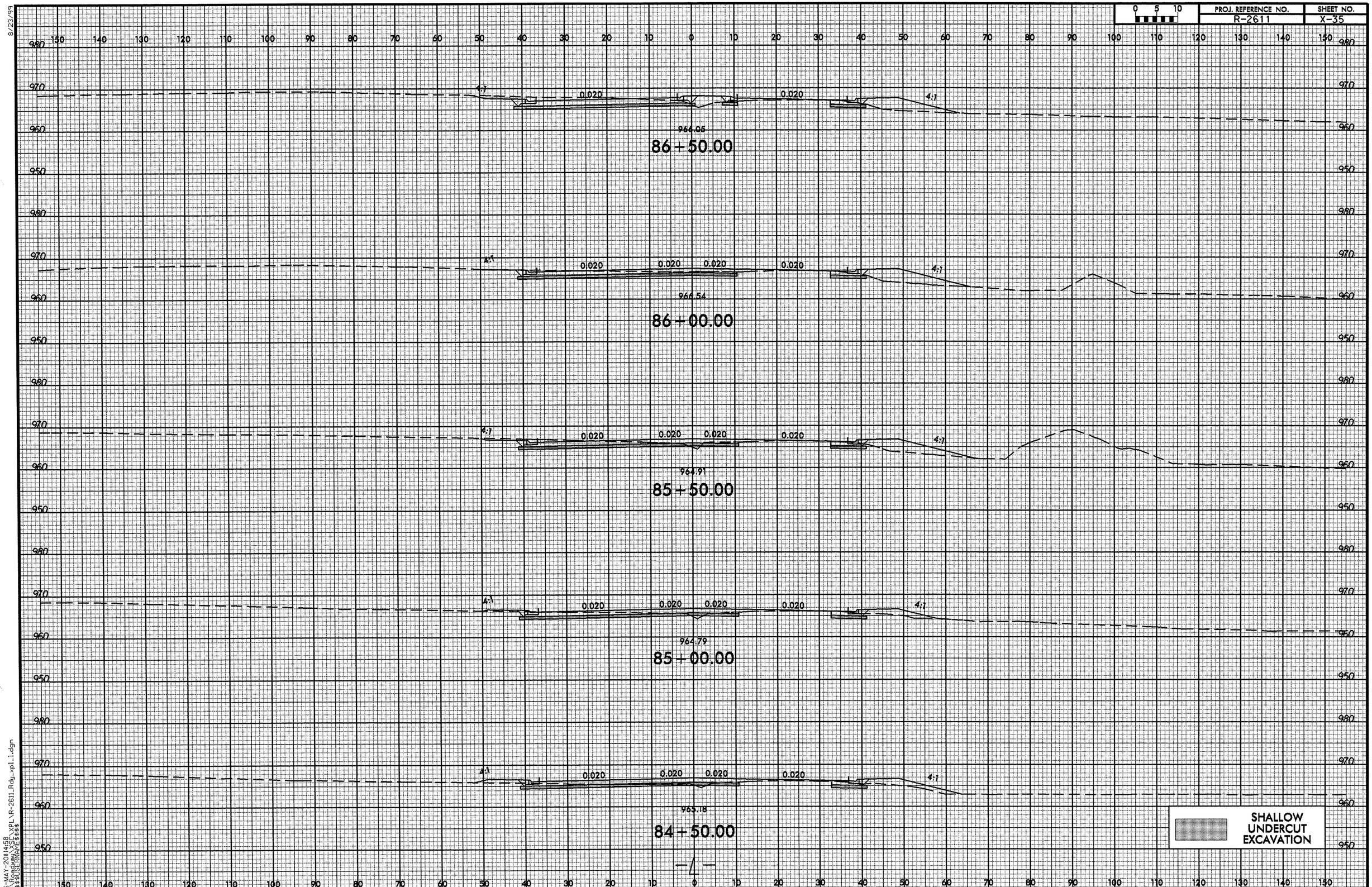
8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-2611	X-35



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$$$$USERNAME$$$$

8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-2611	X-36

968.29
89+00.00

968.33
88+50.00

967.75
88+00.00

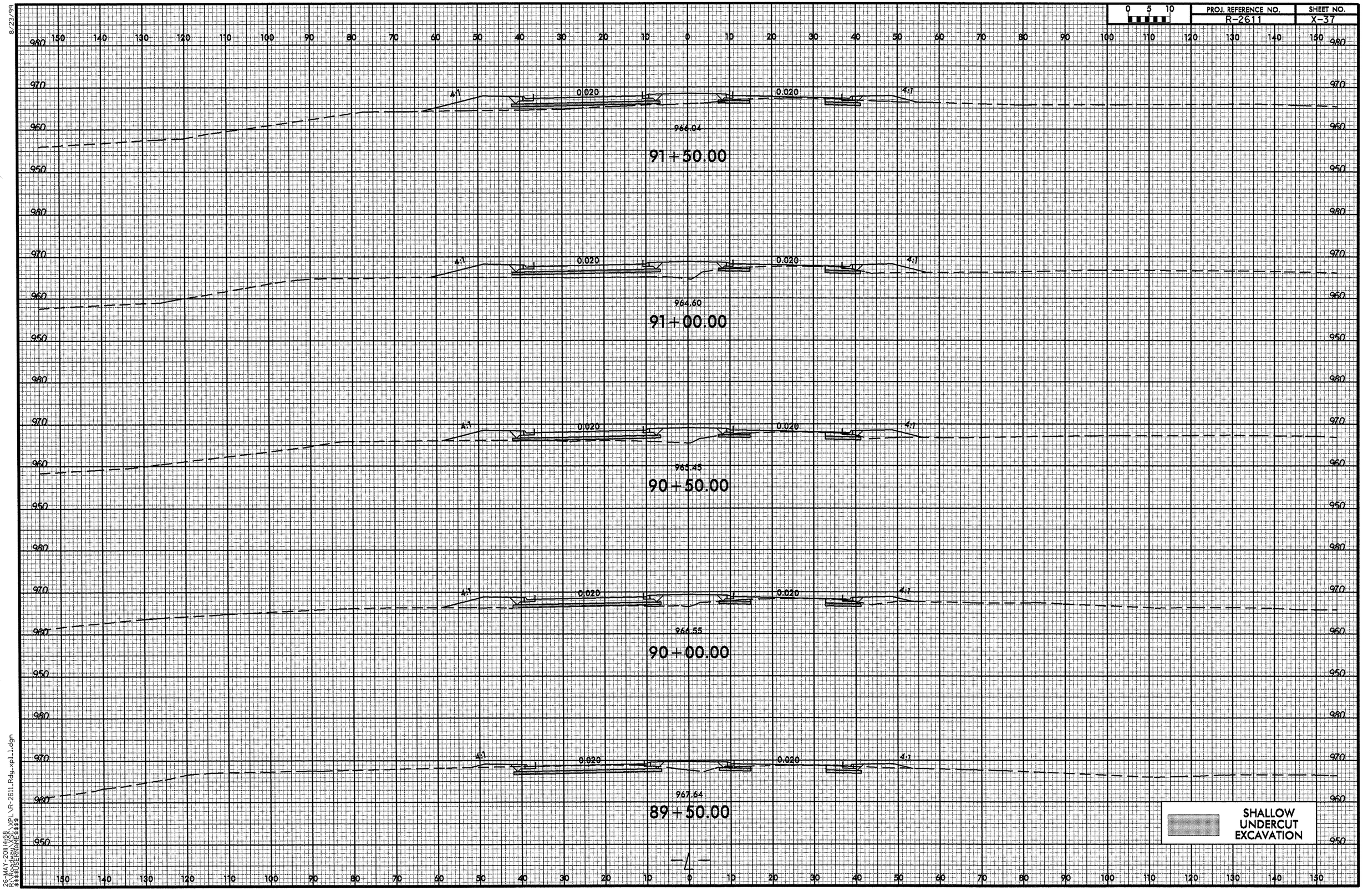
968.12
87+50.00

966.93
87+00.00

4:1 0.020 0.020 4:1

SHALLOW UNDERCUT EXCAVATION

26-MAY-2011 14:58
R:\Roadway\SCL\XPL\R-2611_Rdy_xpl_1.dgn
$$$$USERNAME$$$$



8/23/99
26-MAY-2011 14:58
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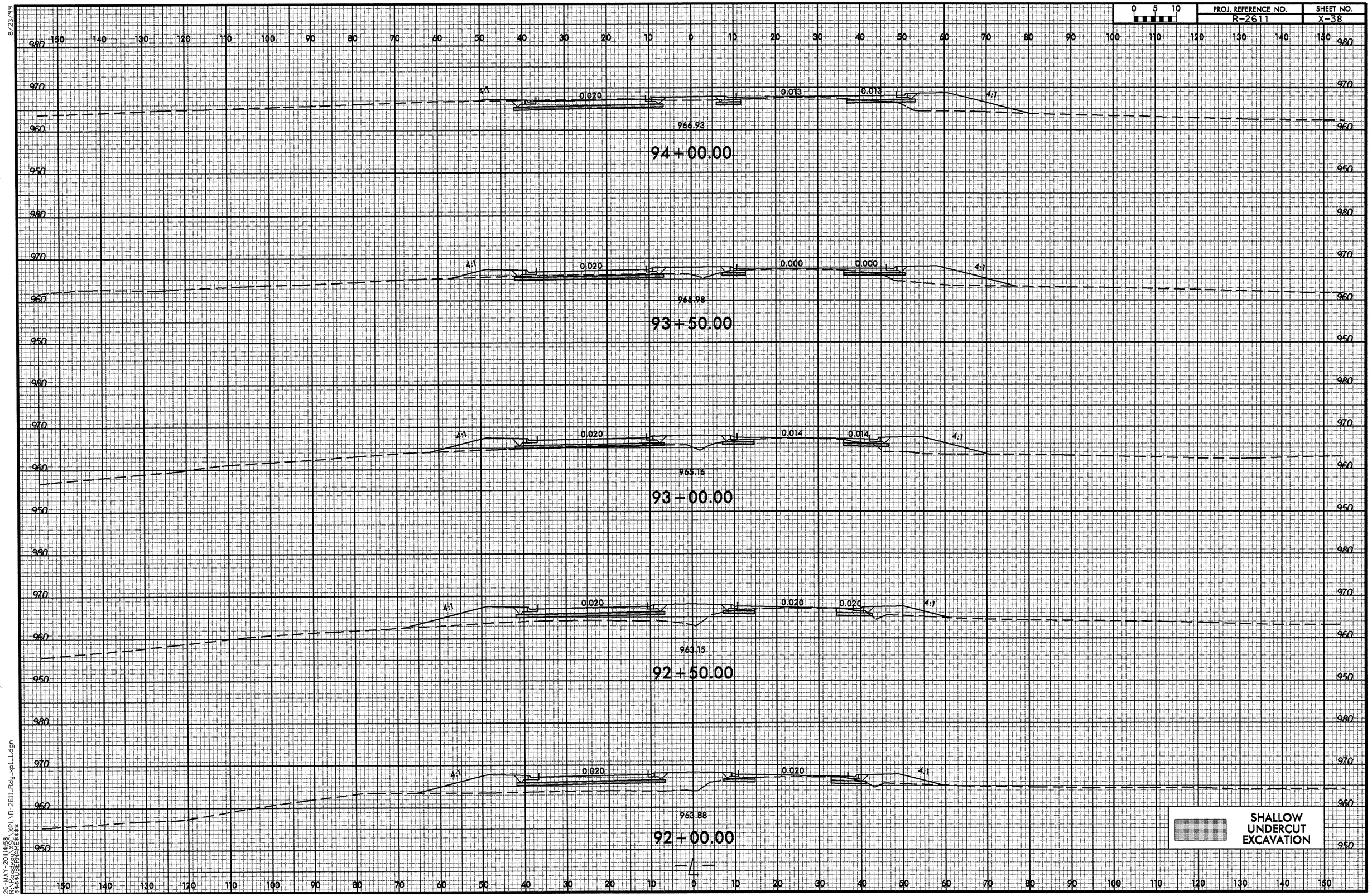
$$$$USERNAME$$$$

8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-2611	X-38



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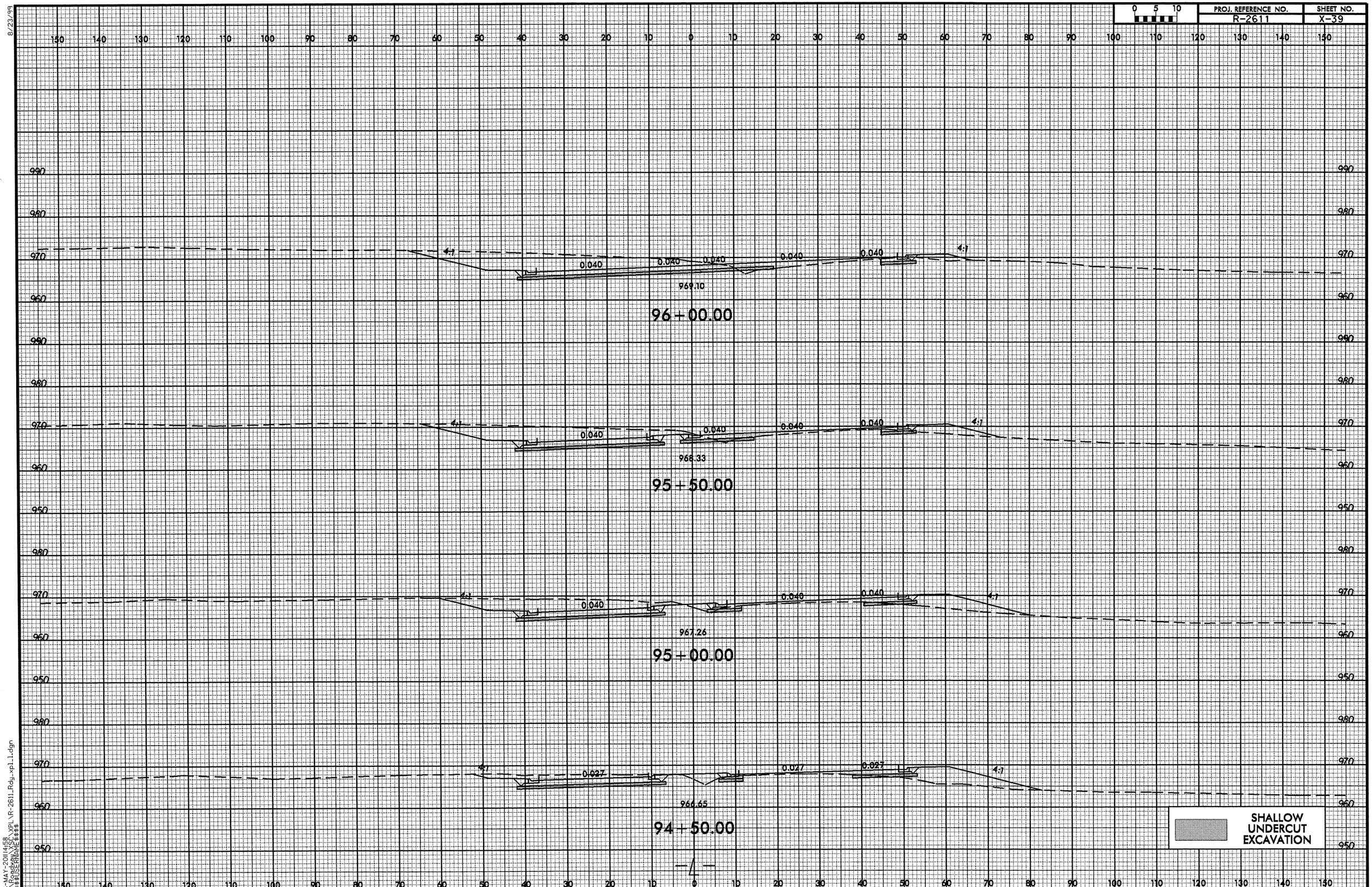
8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-2611	X-39



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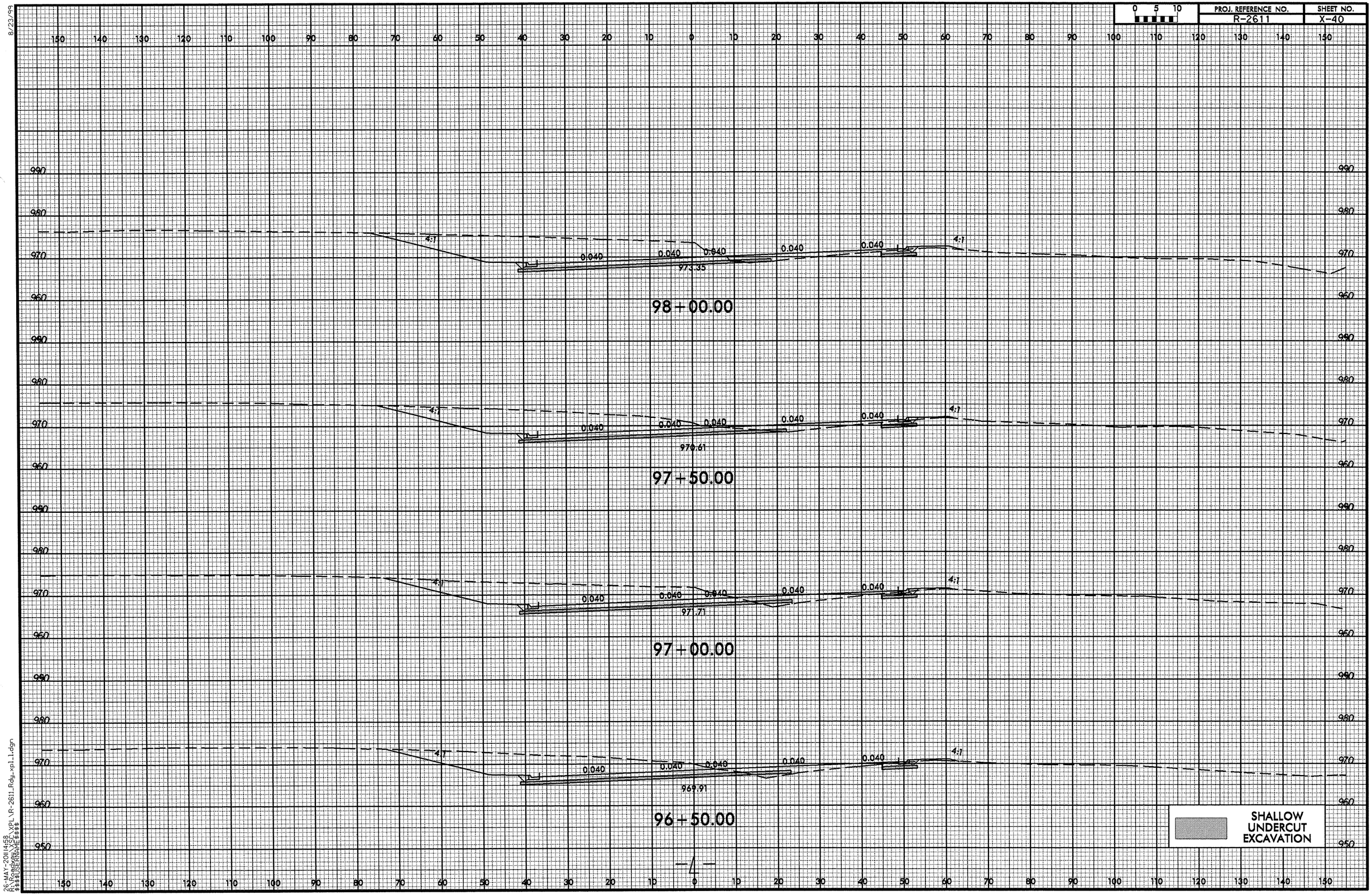

8/23/99
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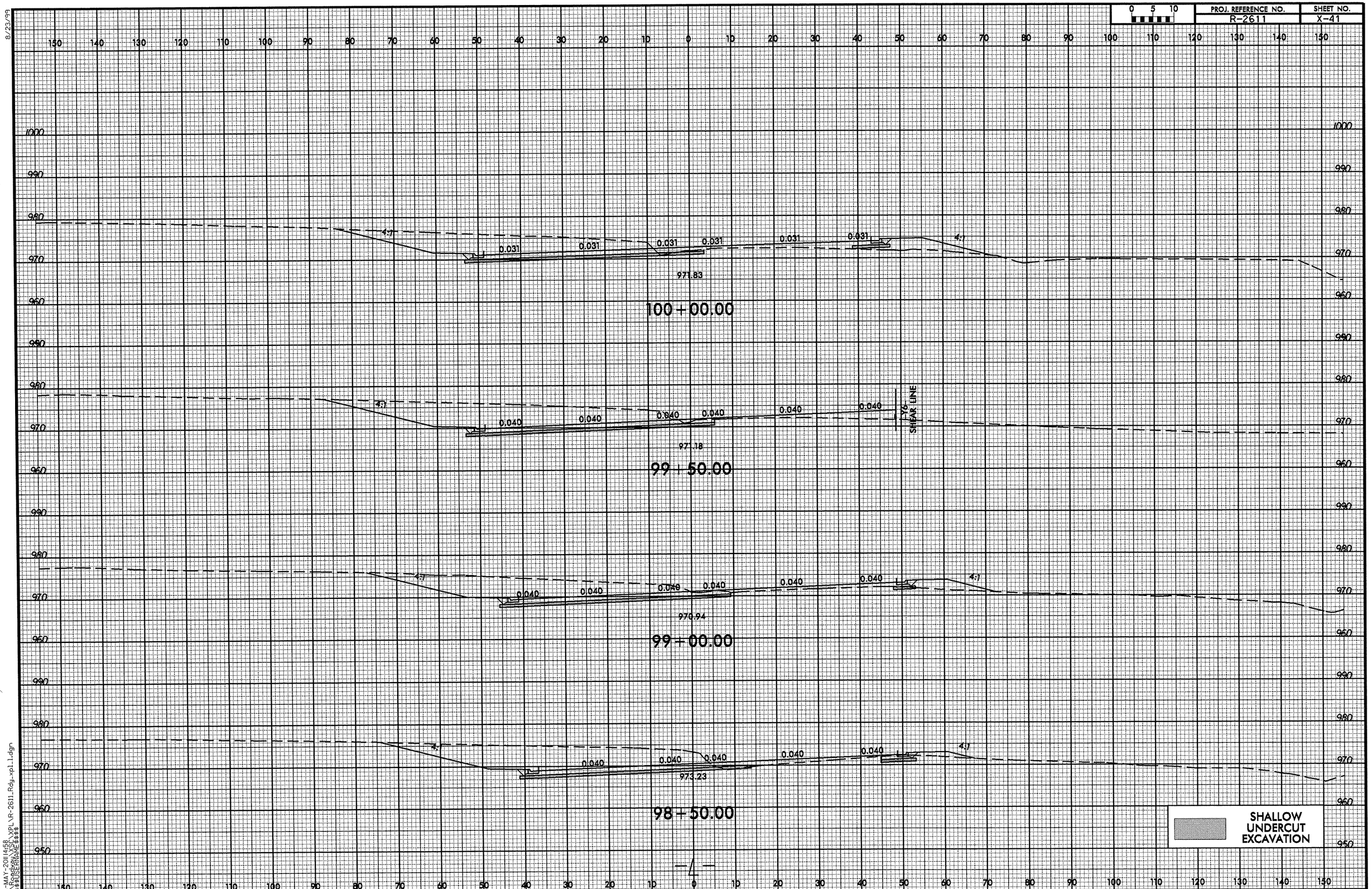
8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-2611	X-41



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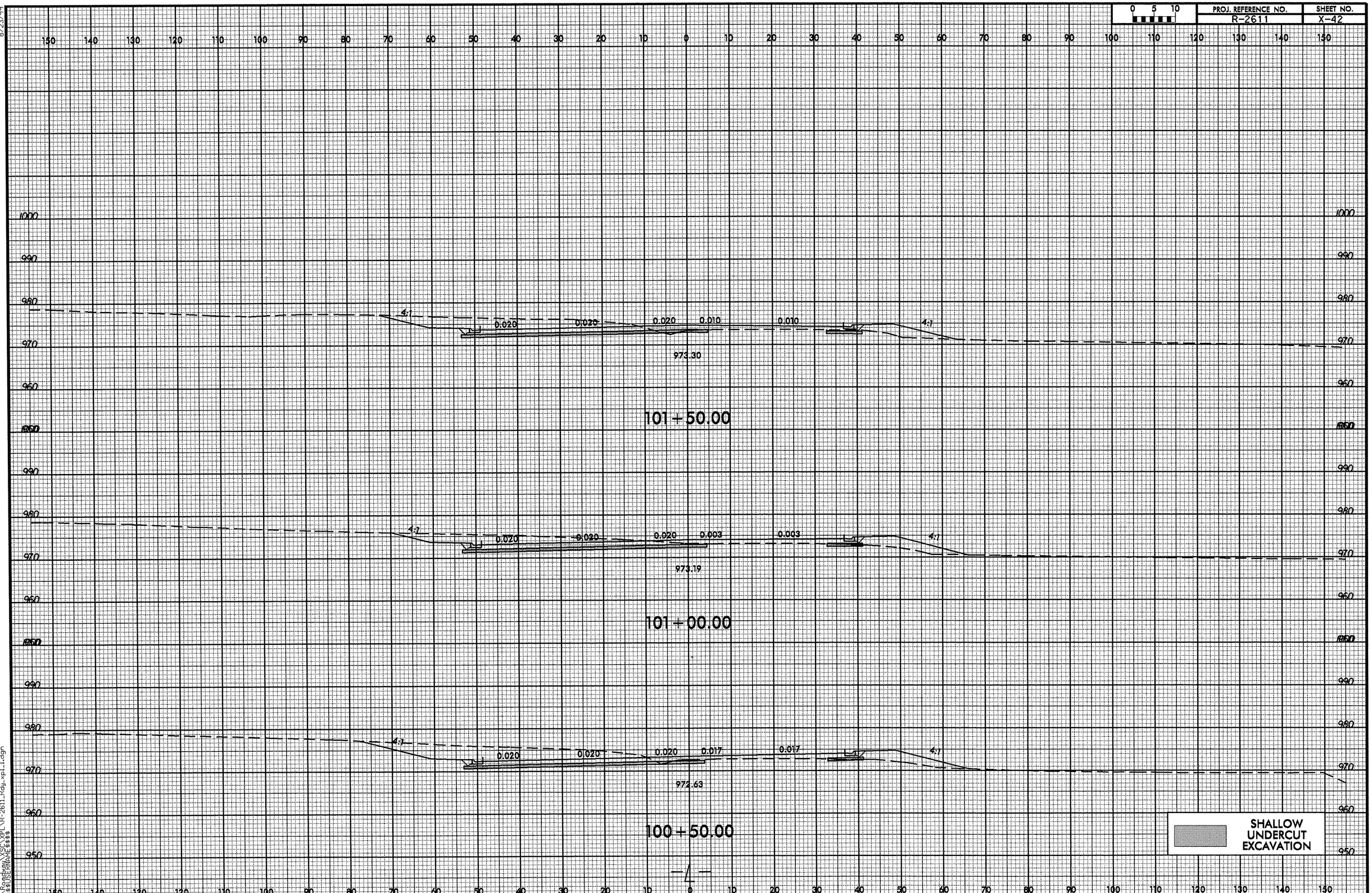
8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-2611	X-42



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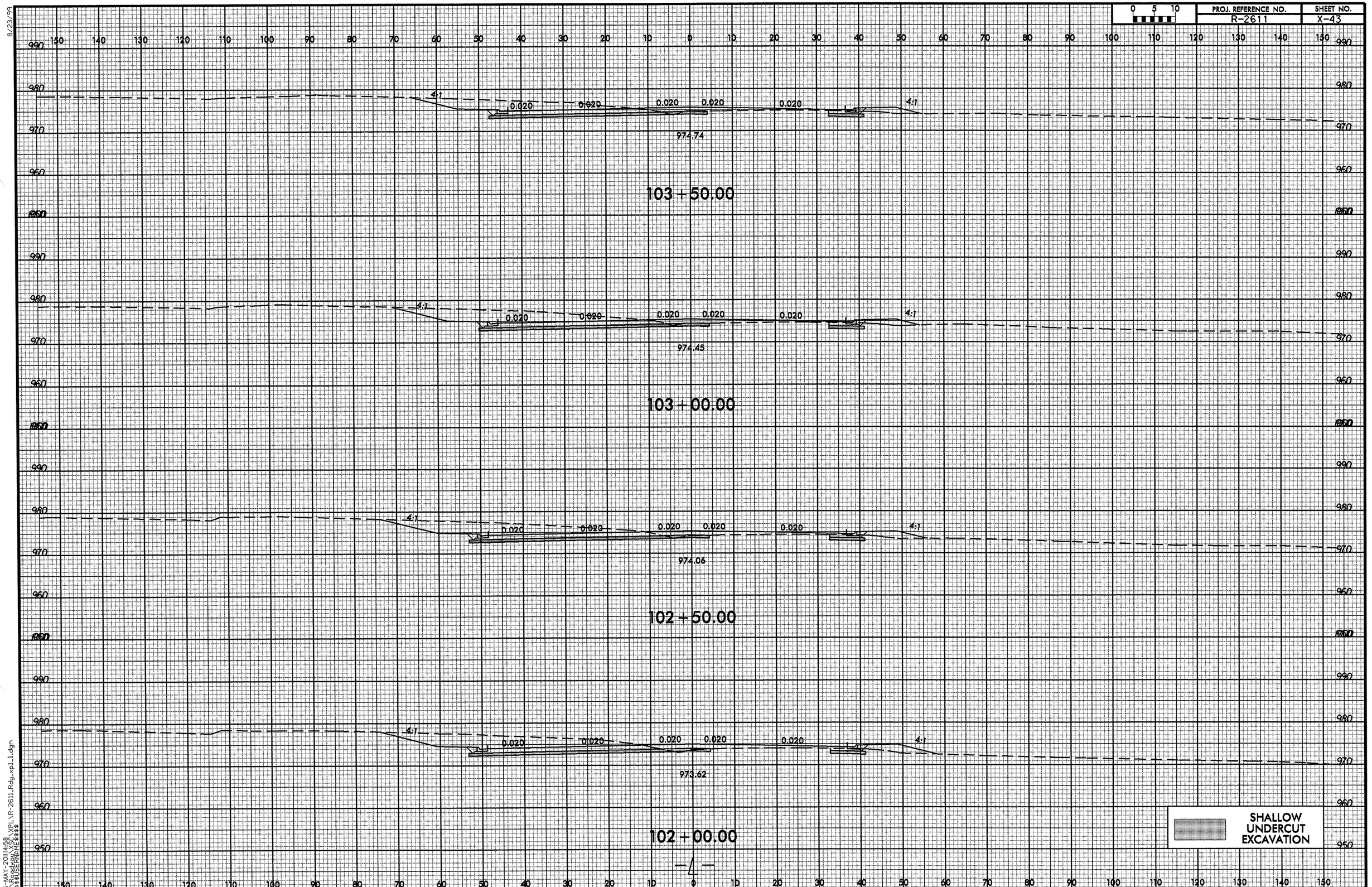
8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-2611	X-43



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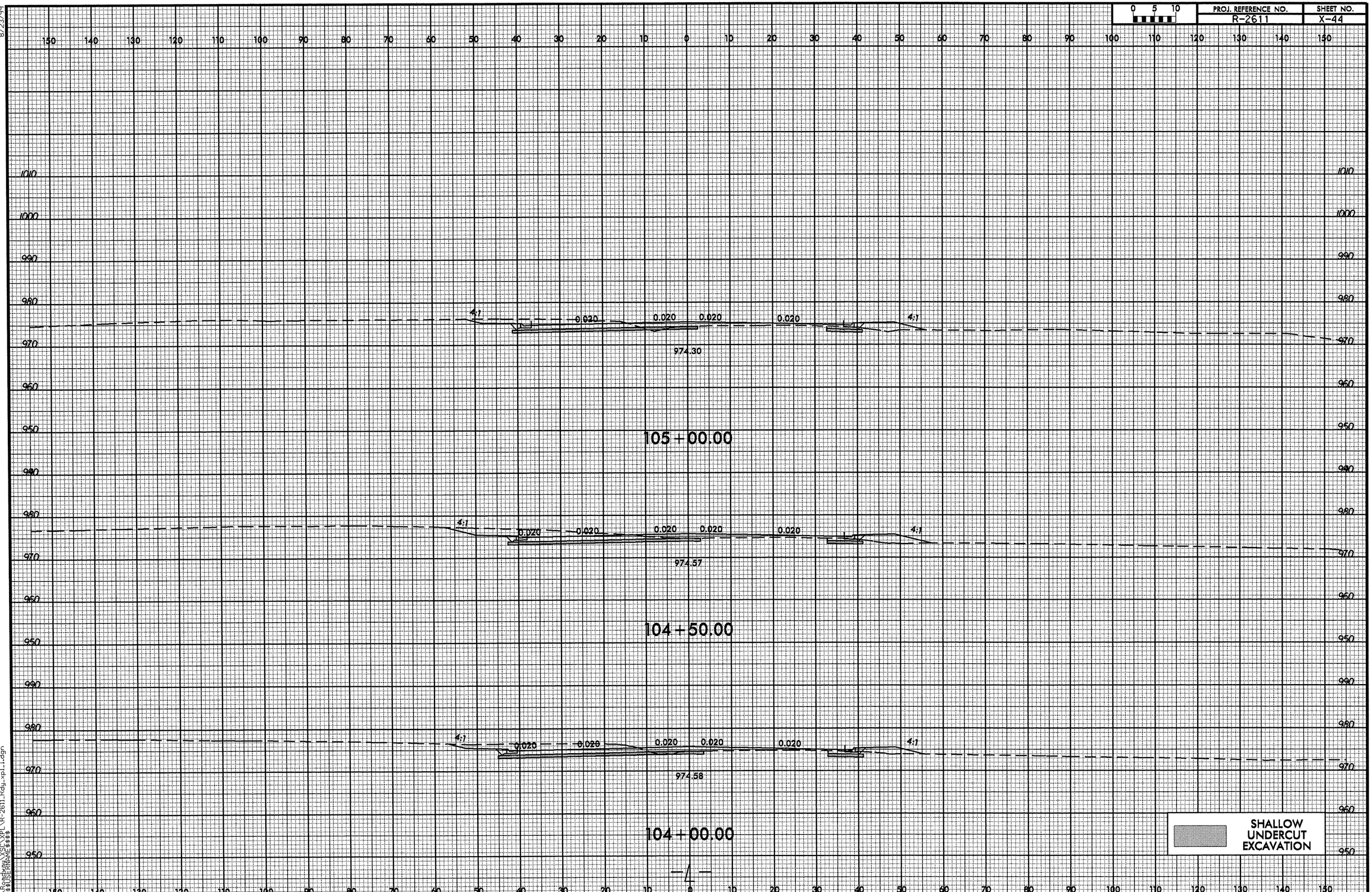
8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-2611	X-44



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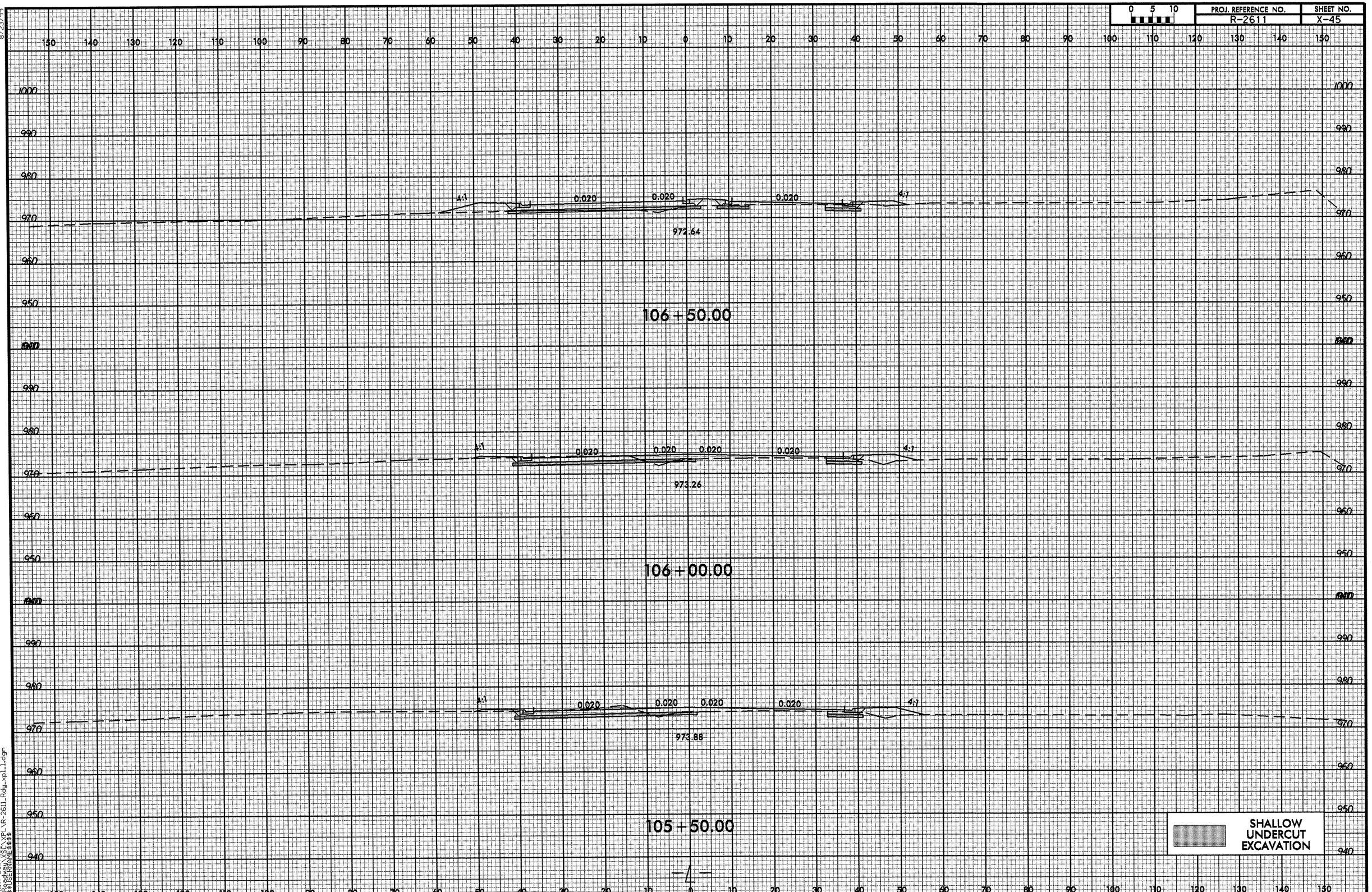
8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-2611	X-45



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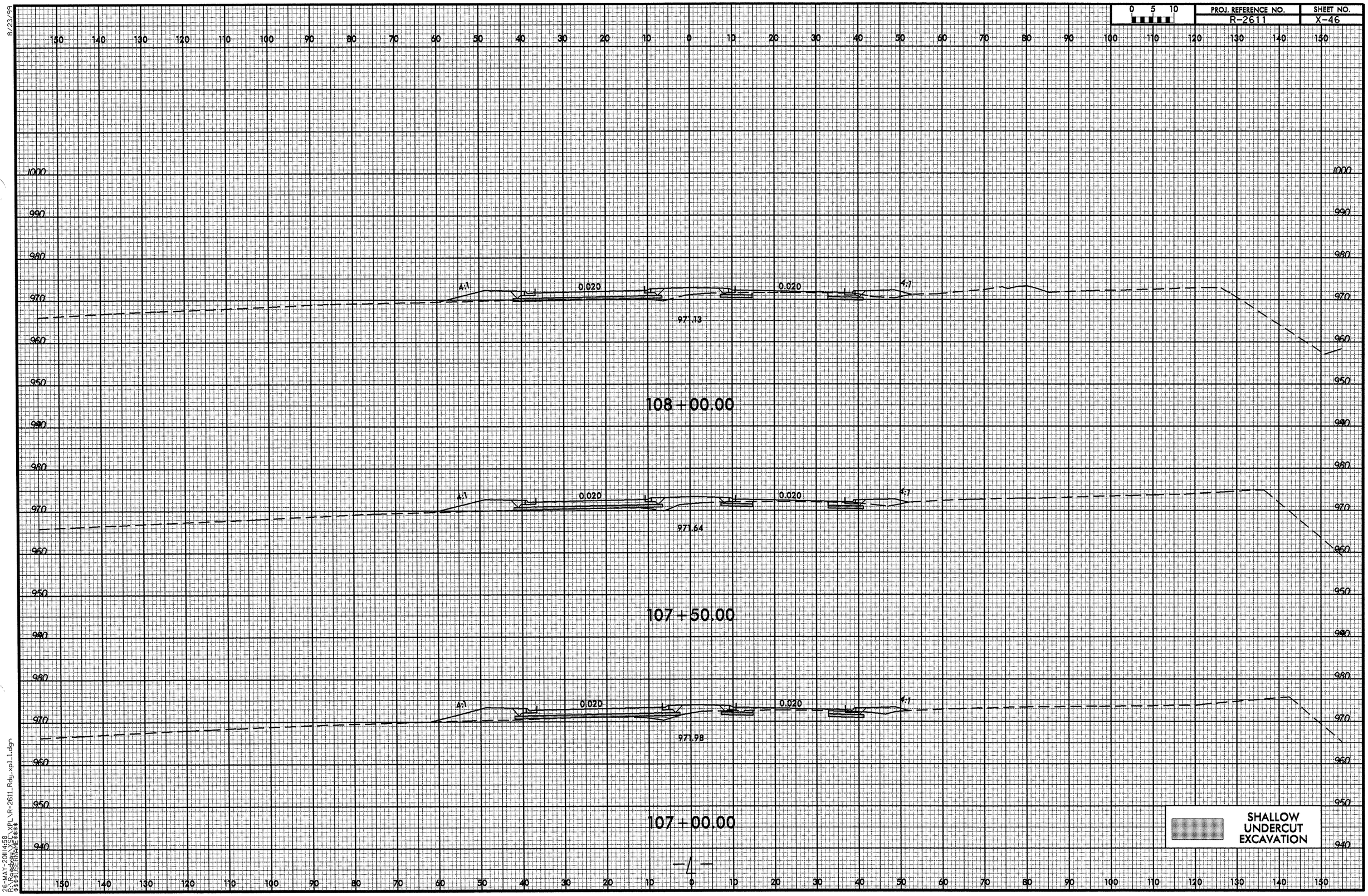

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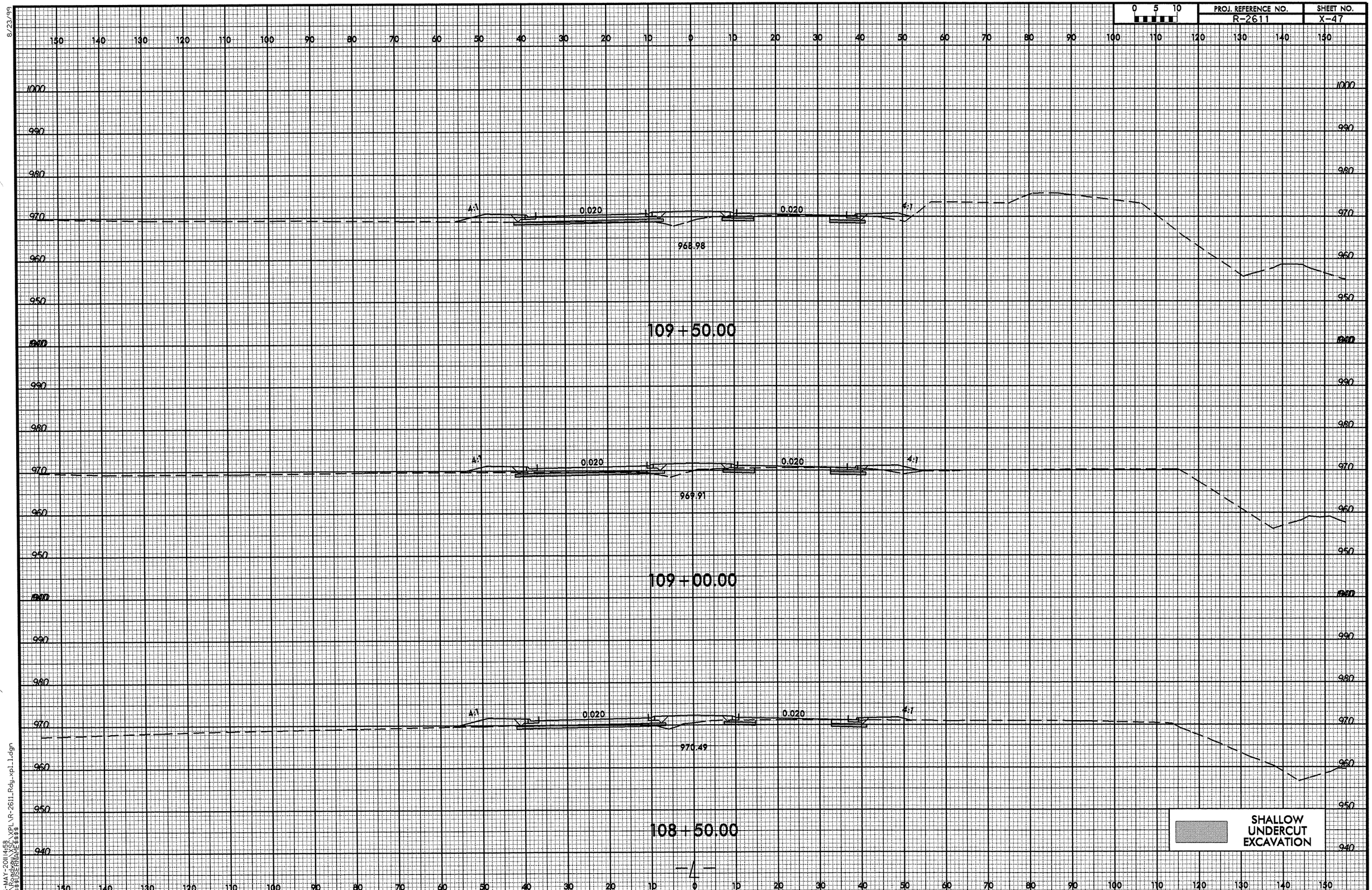
8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-2611	X-47



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$$$$USERNAME$$$$

8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-2611	X-48

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

1000 990 980 970 960 950 940

4:1 0.020 0.004 4:1

967.83

110+50.00

4:1 0.020 0.009 4:1

968.42

110+00.00

SHALLOW UNDERCUT EXCAVATION

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

26-MAY-2011 14:58
R:\Roadway\XSEC\XPL\R-2611_Rdy_xpl_1.dgn
$$$$USERNAME$$$$

8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-2611	X-49

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

1000 990 980 970 960 950 940

4:1 0.032 0.032 4:1

967.47

111+50.00

4:1 0.020 0.018 4:1

967.50

111+00.00

SHALLOW UNDERCUT EXCAVATION

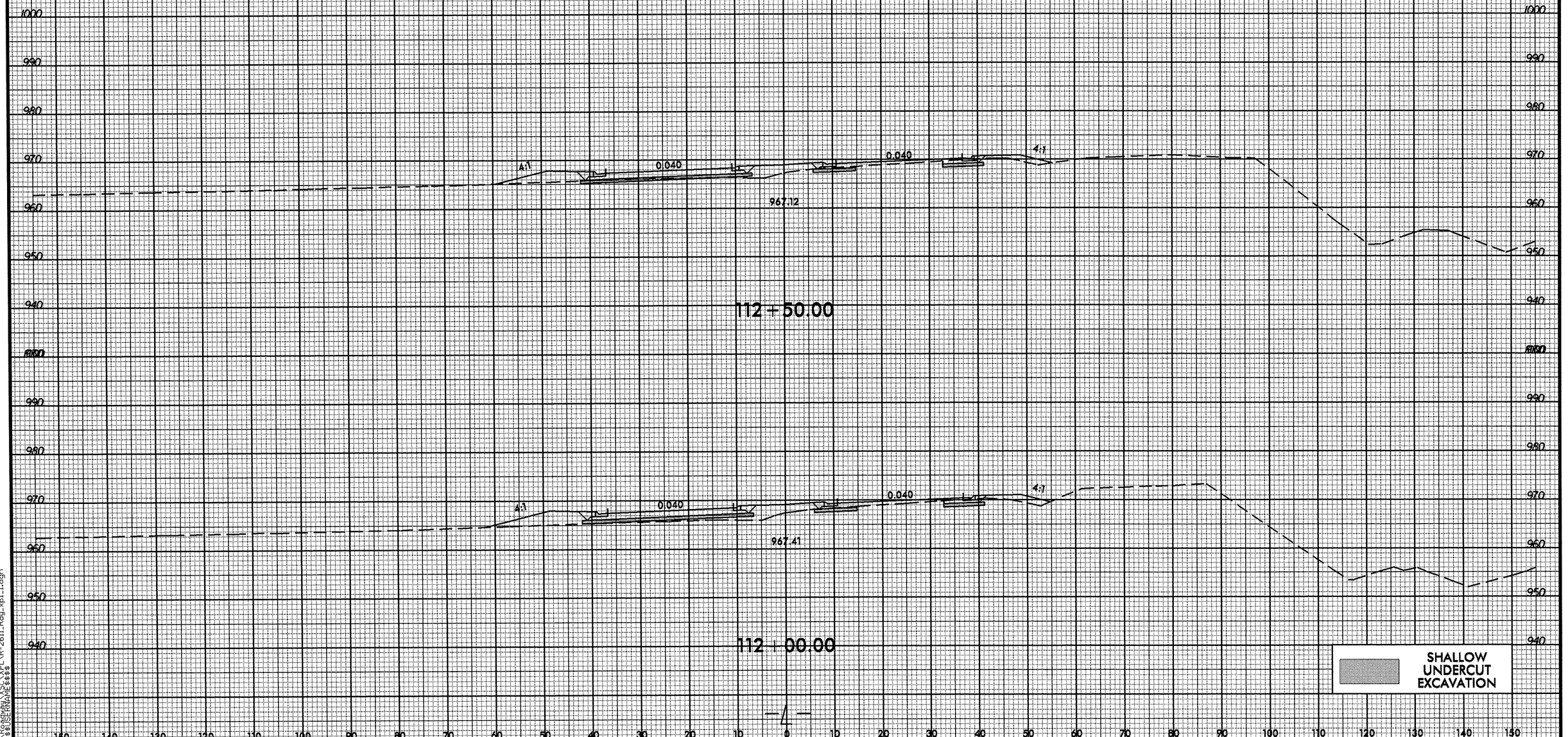
26-MAY-2011 14:58
R:\Roadway\XSL\XPL\R-2611_Rdy_xpl_1.dgn
$$$$USERNAME$$$$

8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-2611	X-50

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

1000
990
980
970
960
950
940



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$$$$USERNAME$$$$

8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-2611	X-51

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

1000 990 980 970 960 950 940 930

4:1 0.040 0.040 4:1

966.86

113+50.00

4:1 0.040 0.040 4:1

967.10

113+00.00

SHALLOW UNDERCUT EXCAVATION

26-MAY-2011 14:58
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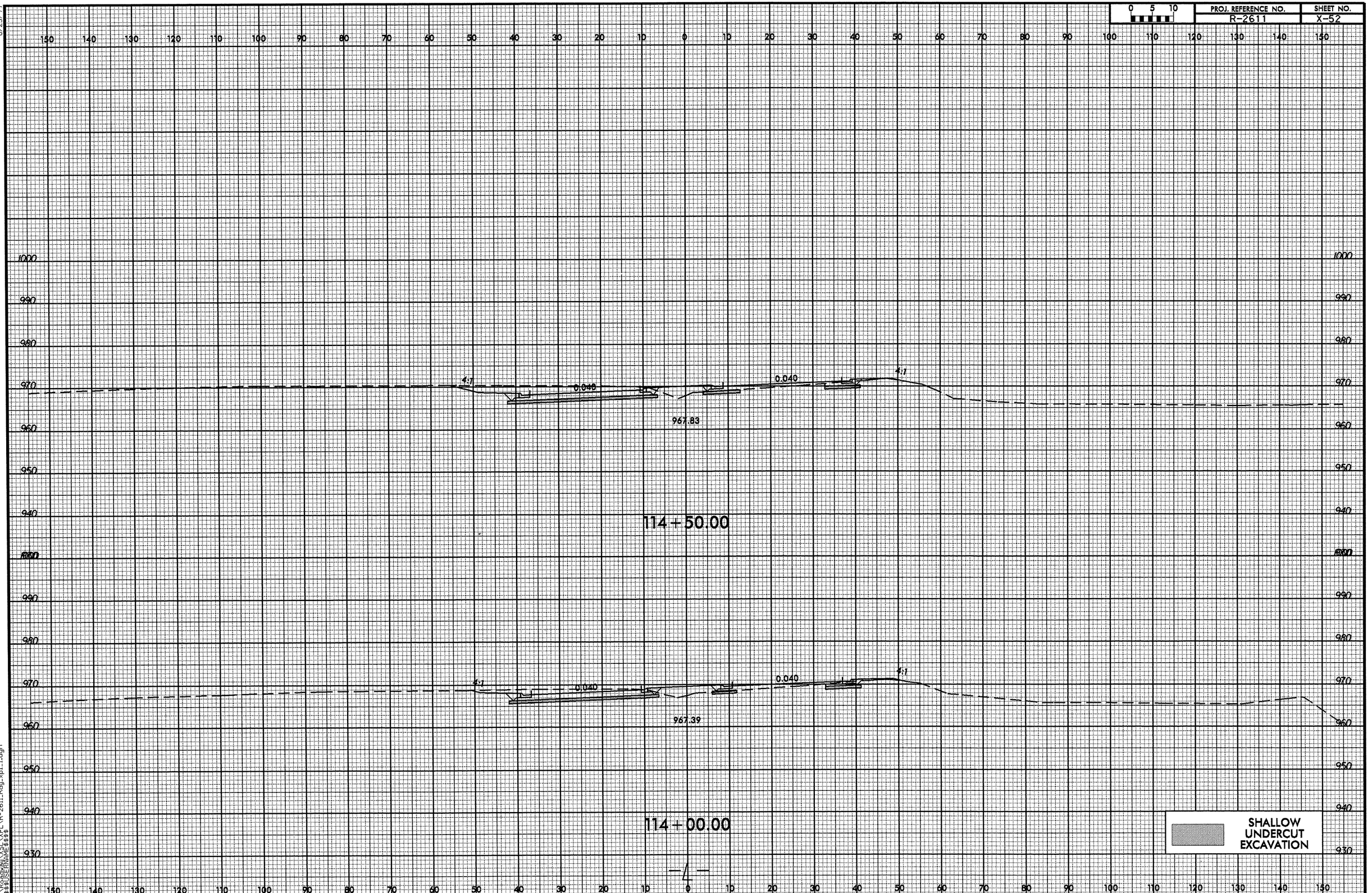

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26-MAY-2011 14:58
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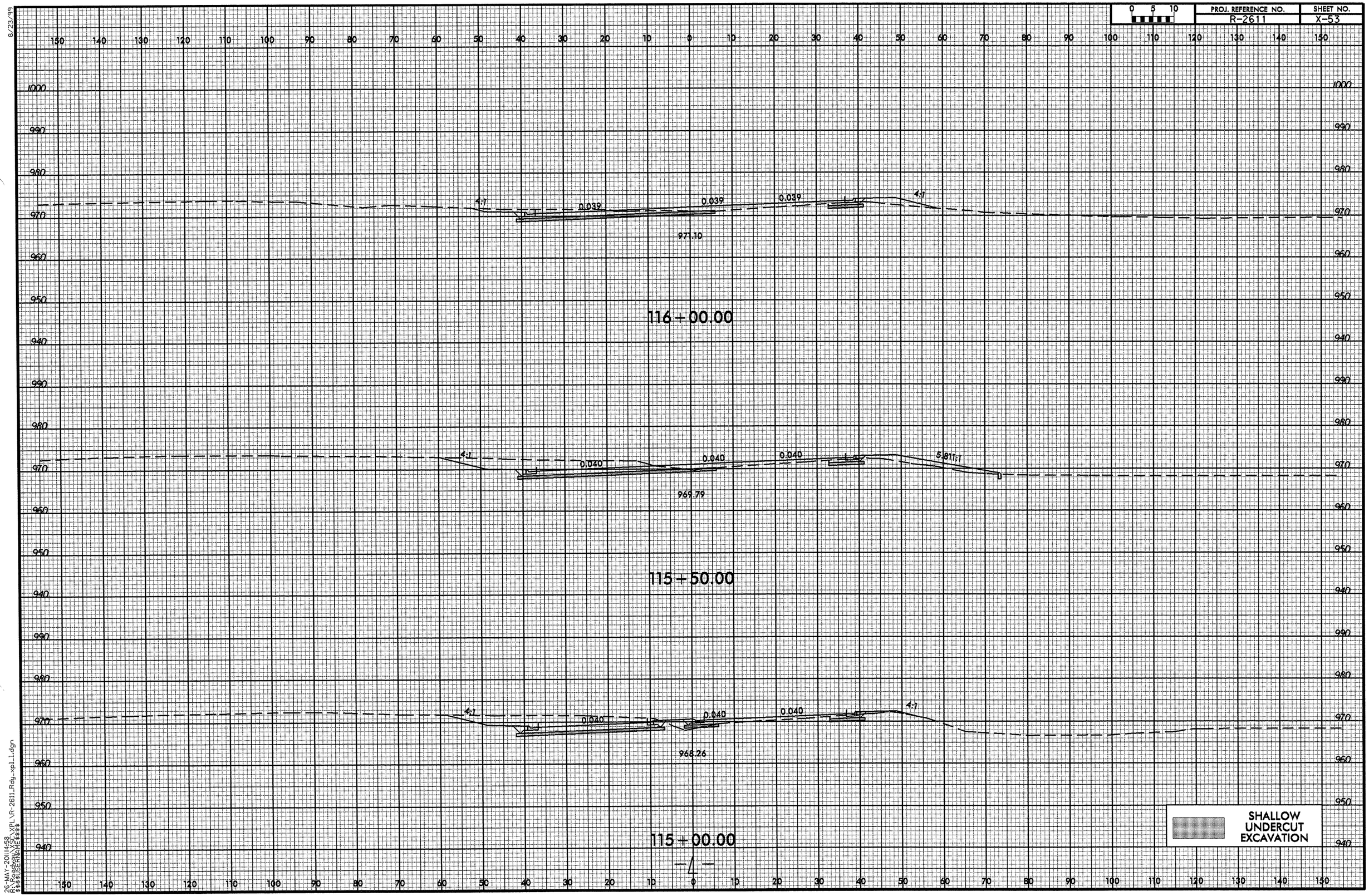


8/23/99

26-MAY-2011 14:58
R:\Roadway\SC\XPL\R-2611_Rdy_xpl_1.dgn
$$$$USERNAME$$$$

8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-2611	X-54

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

990 980 970 960 950 940

0.062 FT./FT. 0.020 0.003 0.003 4:1

974.25

117+50.00

5.65 4:1 0.020 0.011 0.011 7.927:1

973.01

117+00.00

4:1 0.025 0.025 0.025 7.041:1

972.00

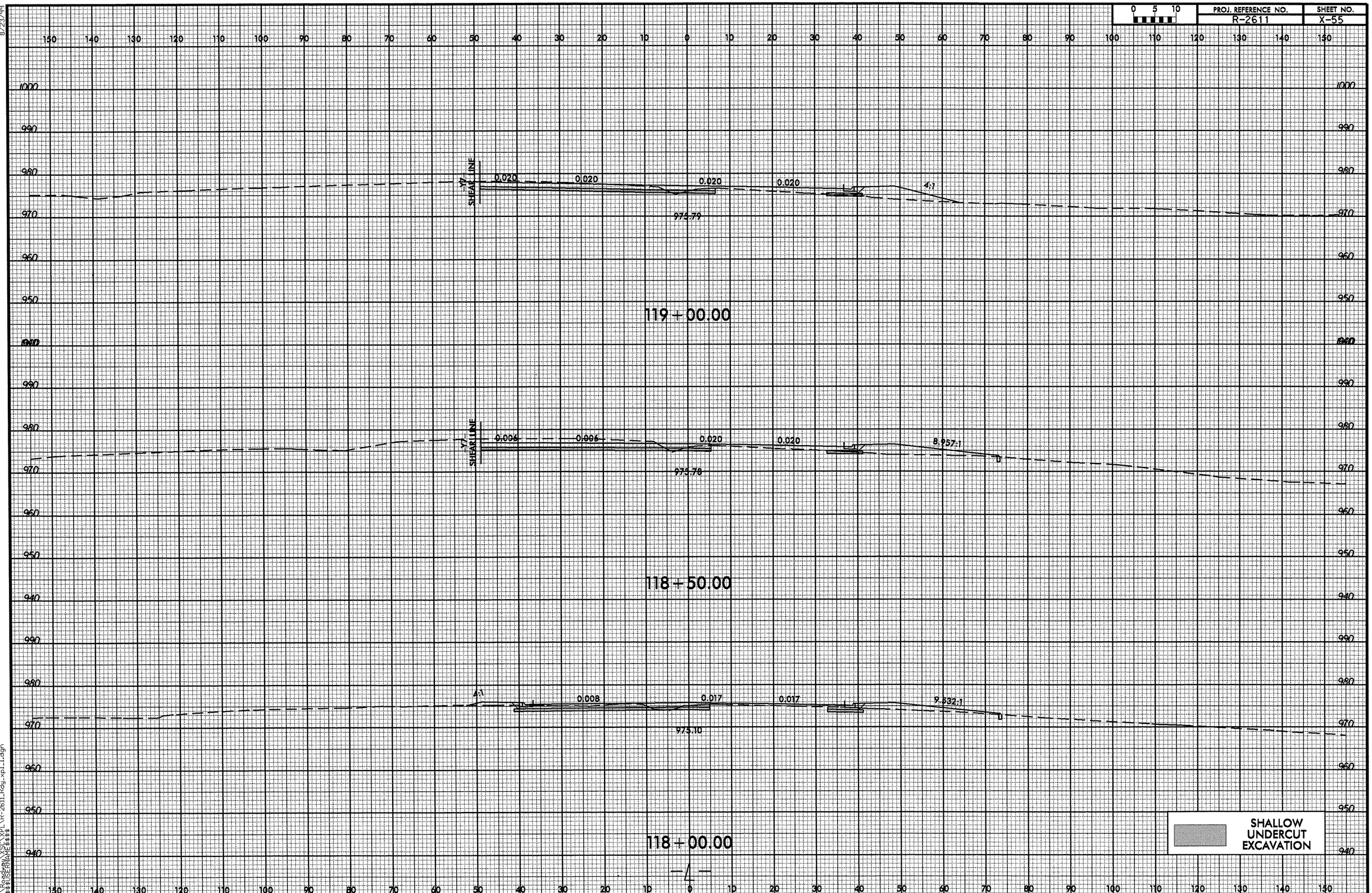
116+50.00

SHALLOW UNDERCUT EXCAVATION

26-MAY-2011 14:59
R:\Roadway\XSEC\XPL\R-2611_Rdy_xpl_1.dgn
$$$$USERNAME$$$$

8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-2611	X-55



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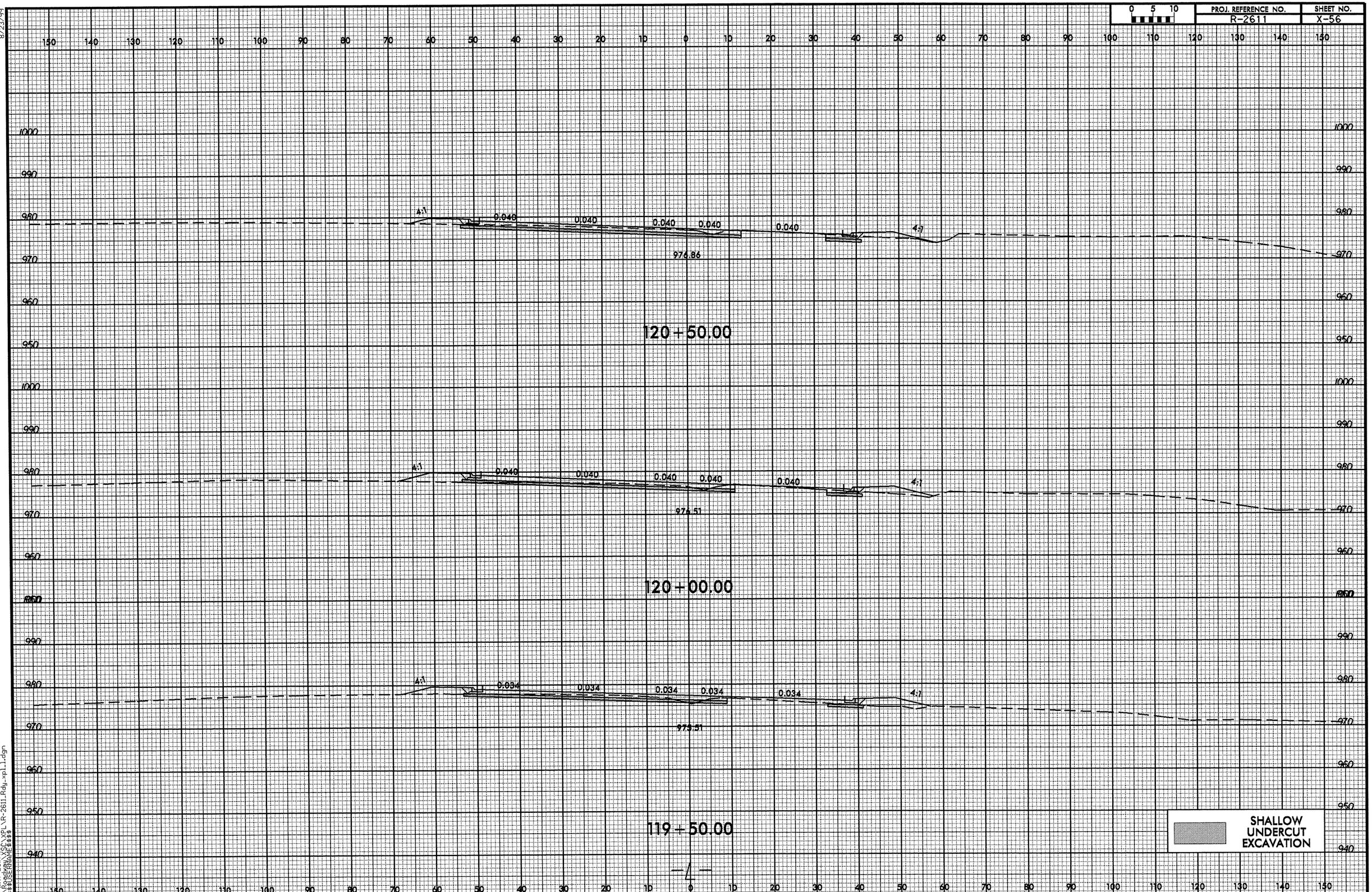
$$$$USERNAME$$$$

8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-2611	X-56



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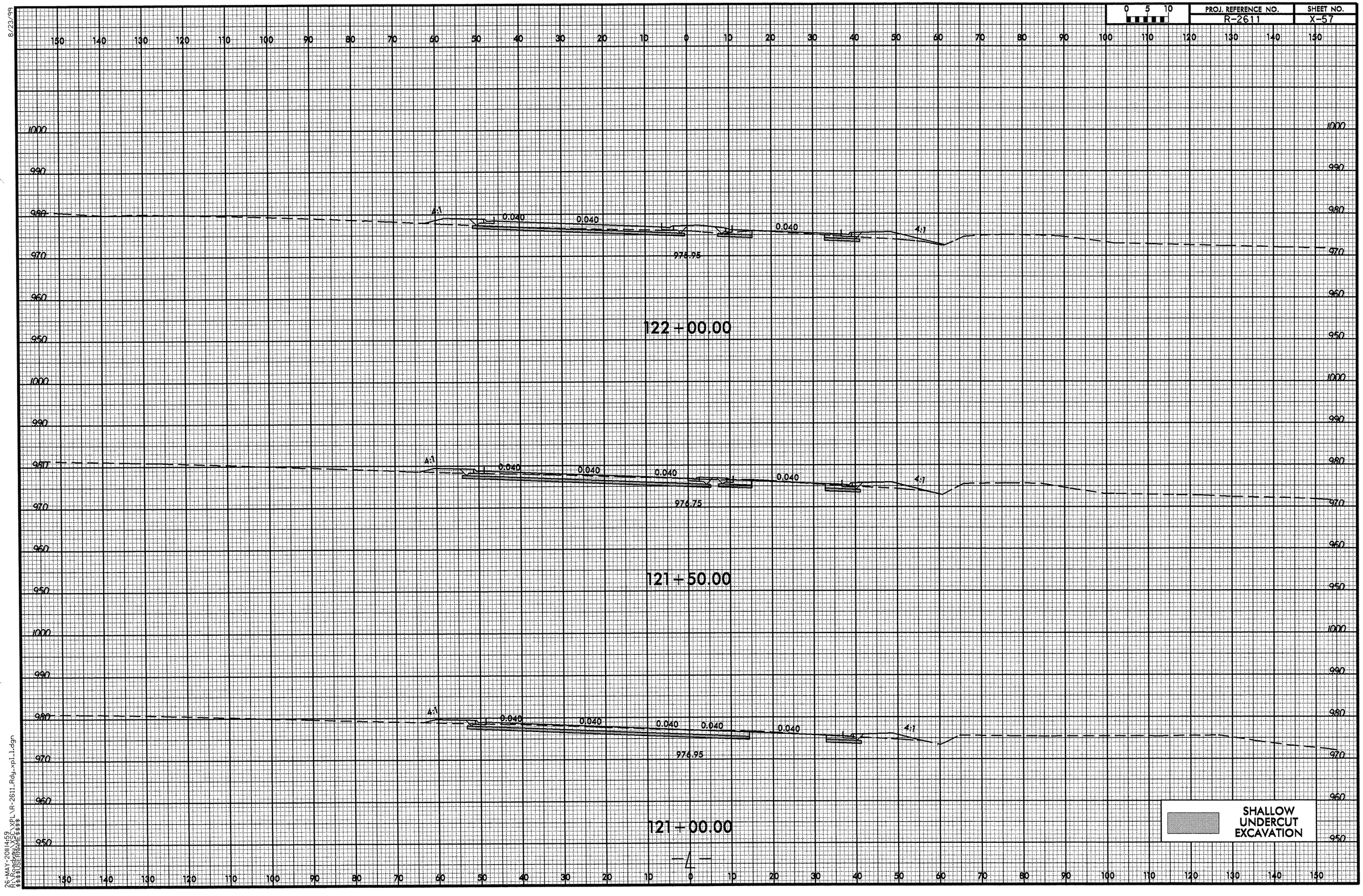
8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-2611	X-57



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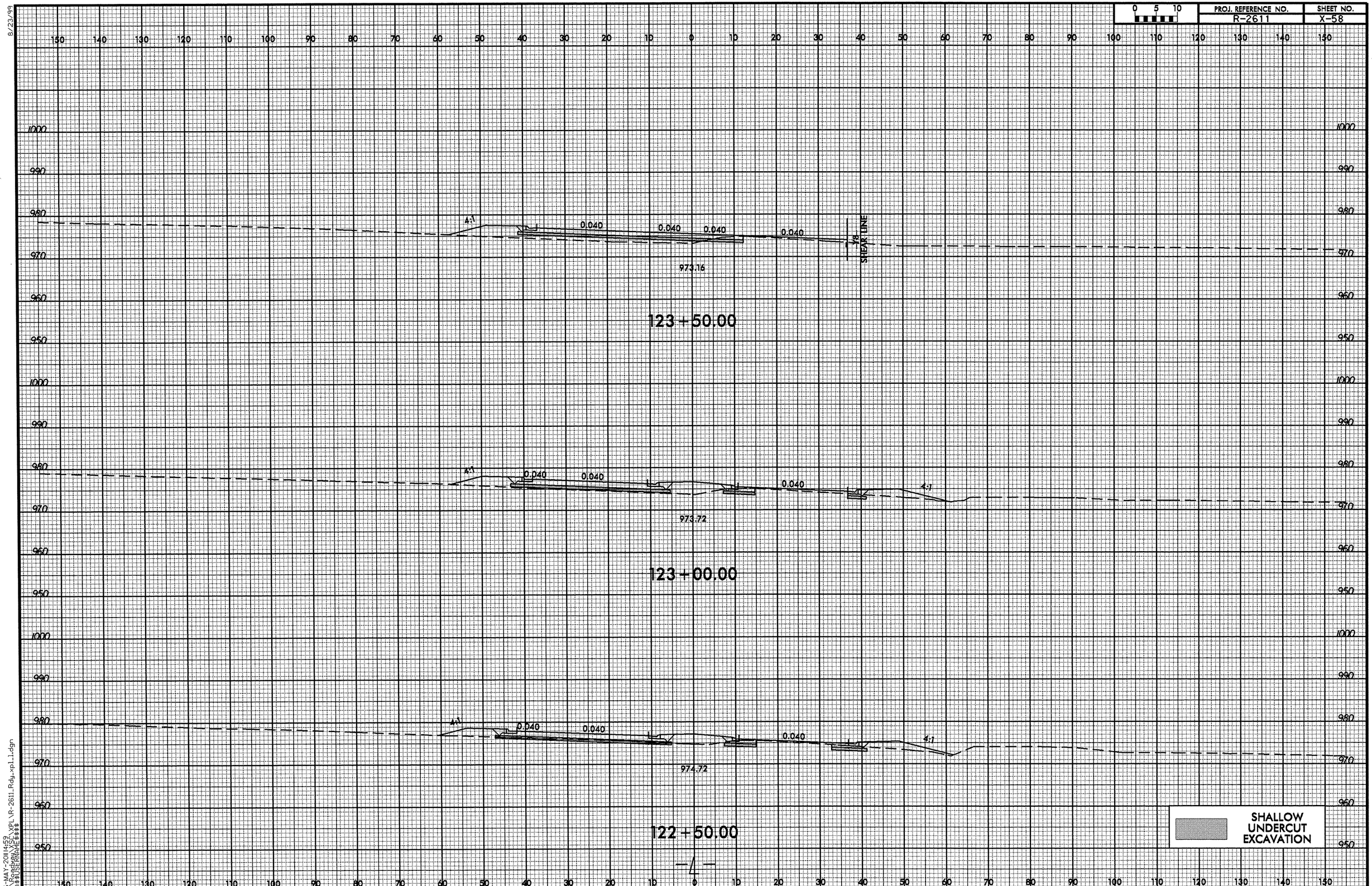
8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-2611	X-58



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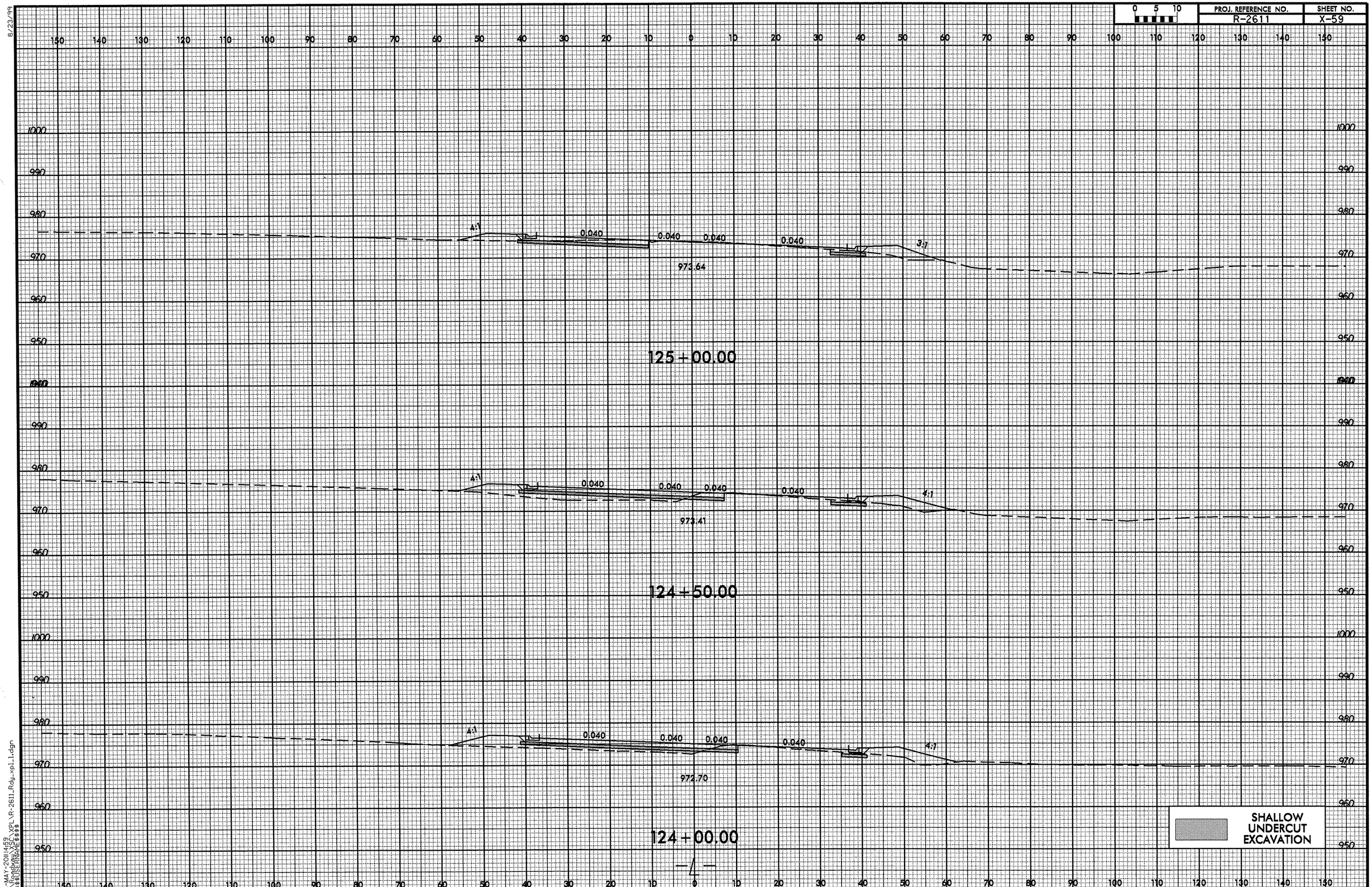
$$$$USERNAME$$$$

8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-2611	X-59



26-MAY-2011 14:59
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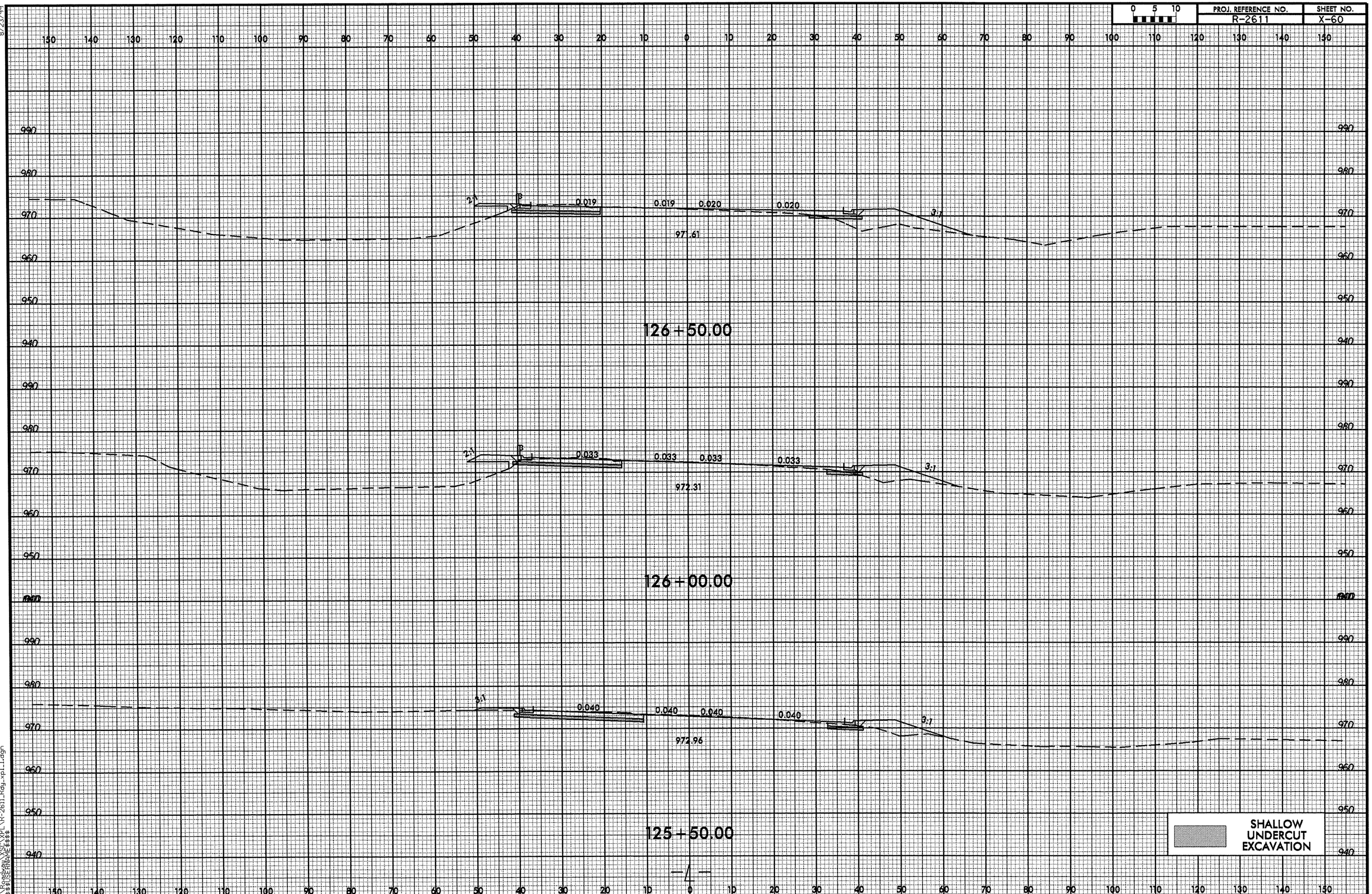
$$$$USERNAME$$$$

8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-2611	X-60



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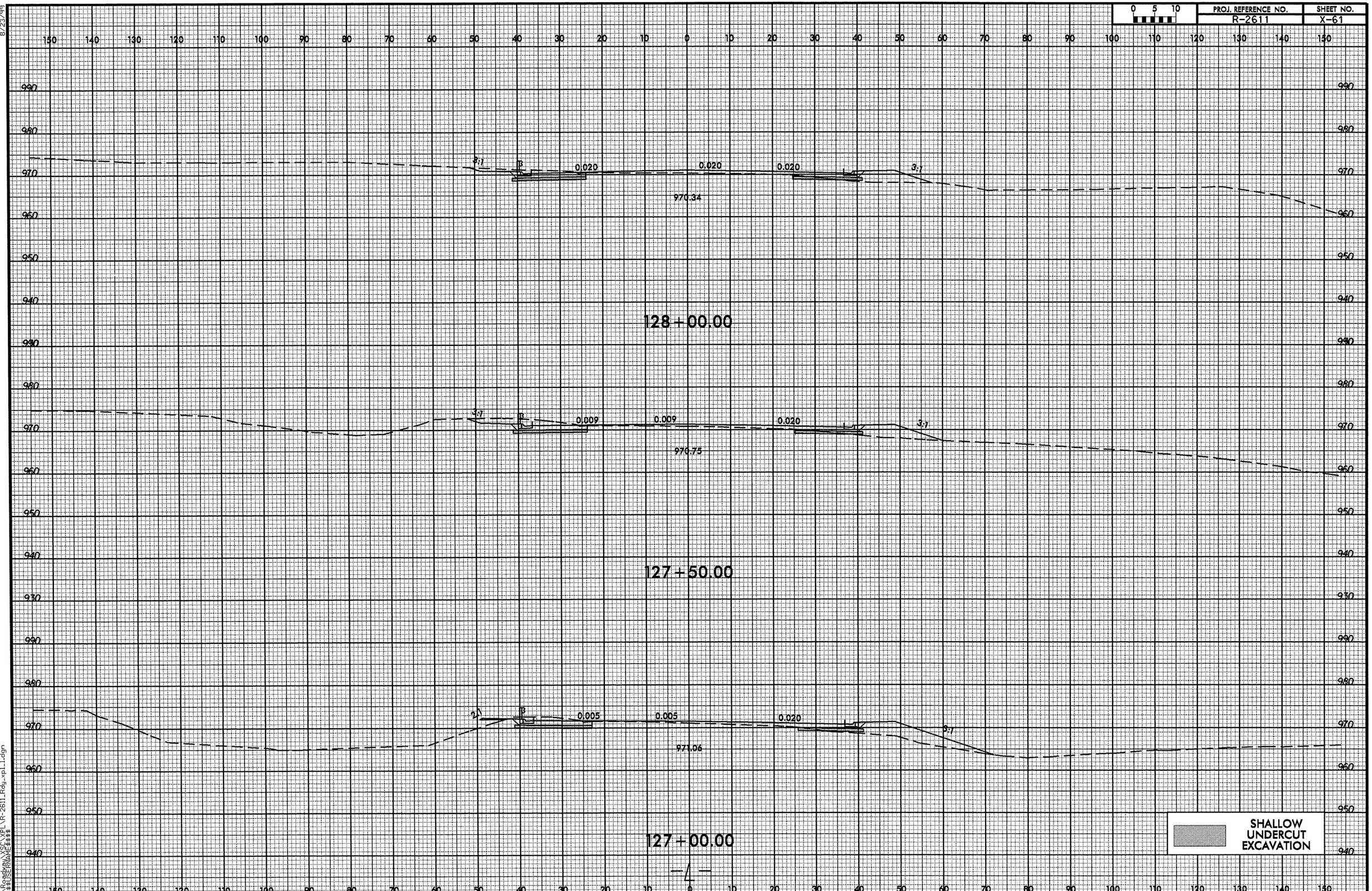
8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-2611	X-61



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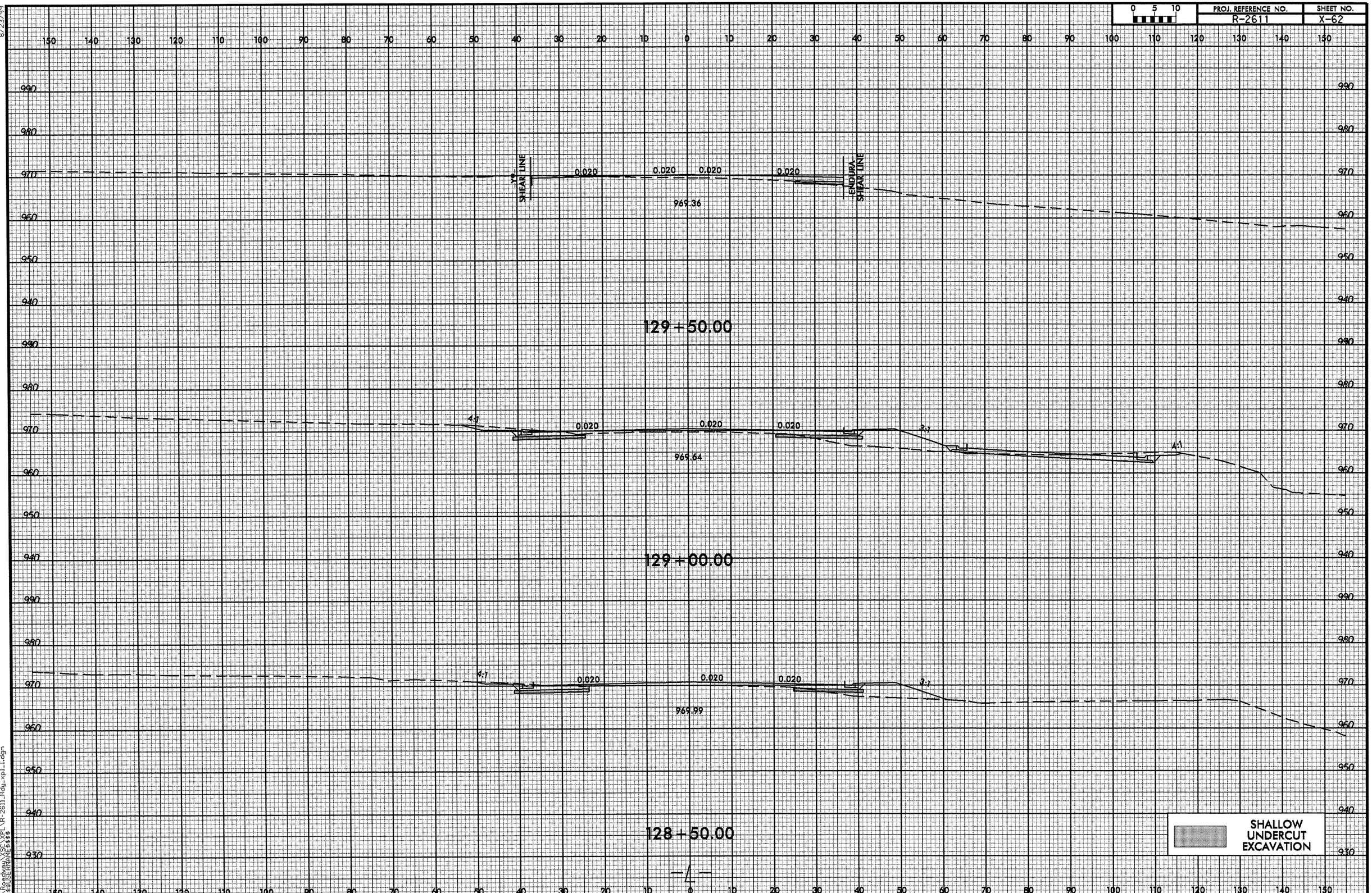
$$$$USERNAME$$$$

8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-2611	X-62



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$$$$USERNAME$$$$

8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-2611	X-63

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

990 980 970 960 950 940

4:1 0.006 0.006 0.020 4:1

968.40

131+00.00

4:1 0.008 0.008 0.020 4:1

968.71

130+50.00

4:1 0.020 0.020 0.020 4:1

969.05

130+00.00

SHALLOW UNDERCUT EXCAVATION

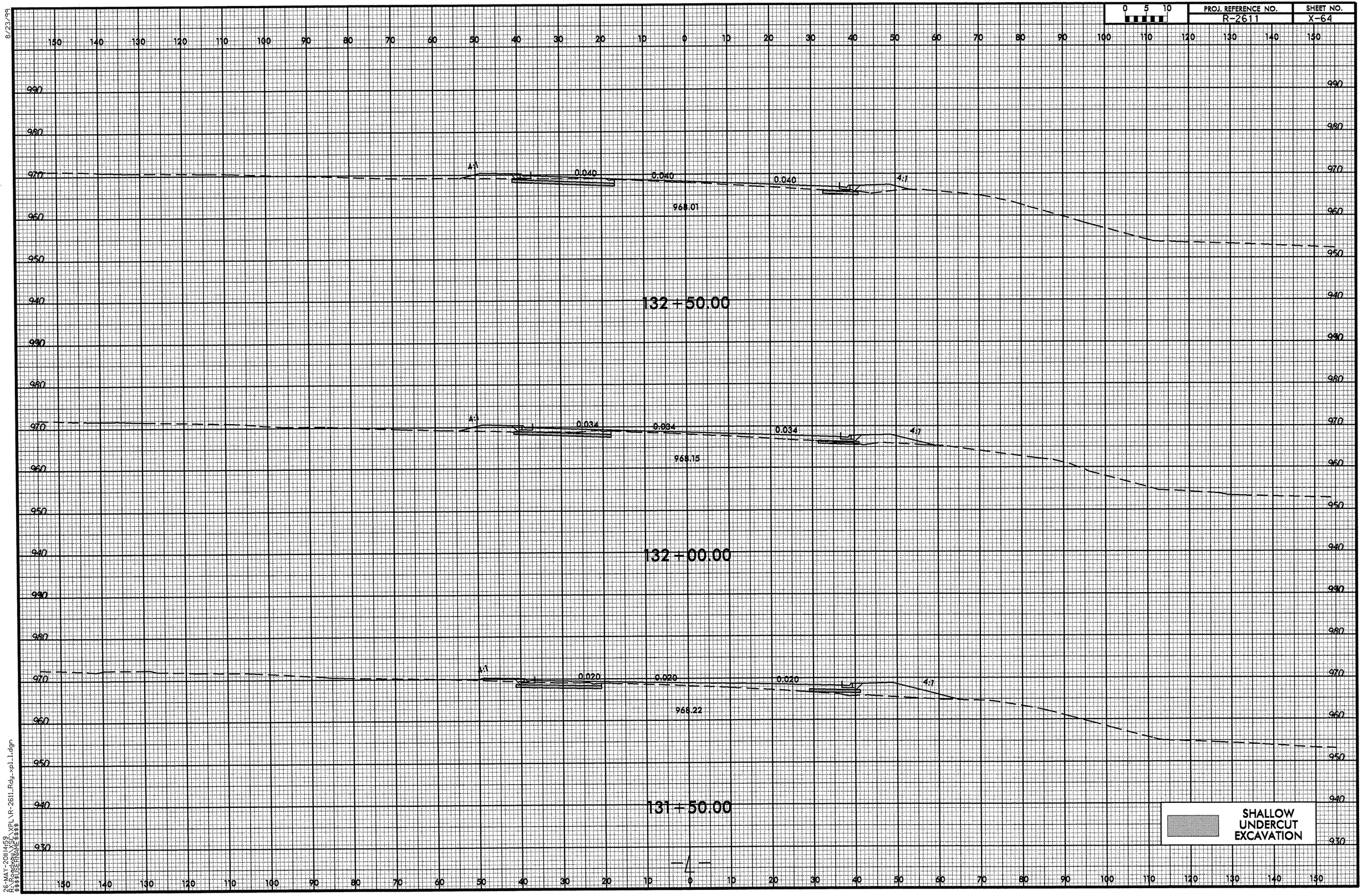
-4-

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

26-MAY-2011 14:59
R:\Roadway\XSC\XPL\R-2611_Rdy_xpl_1.dgn
$$$$USERNAME$$$$

8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-2611	X-64



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$$$$USERNAME$$$$

8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-2611	X-65

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

1000 990 980 970 960 950 940 930

4:1 0.040 0.040 4:1

966.65

134+00.00

967.21

133+50.00

967.75

133+00.00

SHALLOW UNDERCUT EXCAVATION

26-MAY-2011 14:59
R:\Roadway\XSC\XPL\R-2611_Rdy_xpl_1.dgn
$$$$USERNAME$$$$

8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-2611	X-66

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

990
980
970
960
950

4:1 0.040 0.040 0.040 0.040 4:1

963.14

135+50.00

990
980
970
960
950

4:1 0.040 0.040 0.040 0.040 4:1

964.55

135+00.00

990
980
970
960
950

4:1 0.040 0.040 0.040 0.040 4:1

965.66

134+50.00

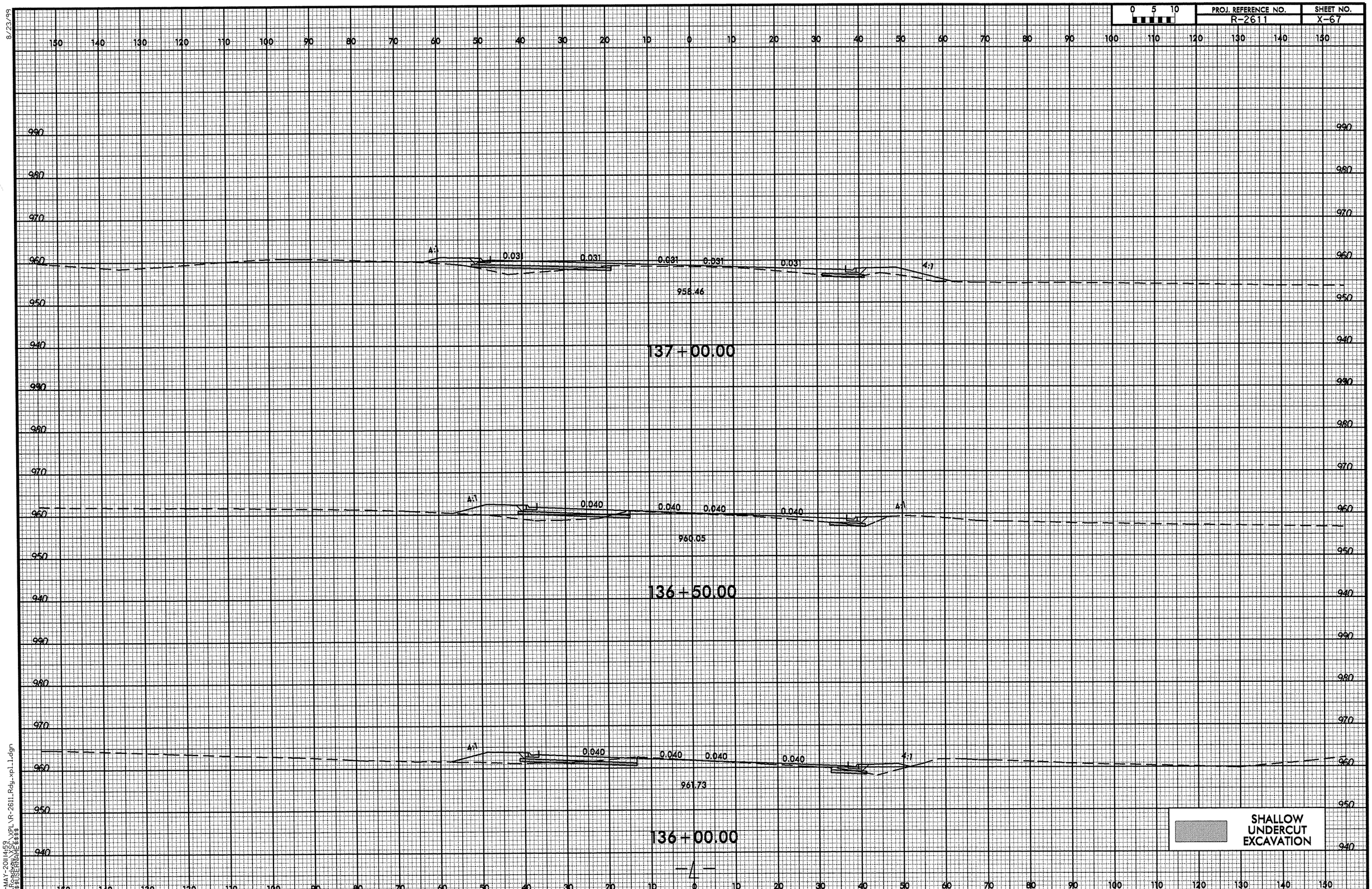
SHALLOW UNDERCUT EXCAVATION

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

26-MAY-2011 14:59
R:\Roadway\SE\XPL\R-2611_Rdy_xpl_1.dgn
$$$$USERNAME$$$$

8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-2611	X-67



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$$$$USERNAME$$$$

8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-2611	X-68

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

980 970 960 950 940 930

4:1 0.011 0.011 0.011 0.020 0.020 0.020 4:1

954.08

138+50.00

4:1 0.003 0.003 0.003 0.020 0.020 4:1

955.45

138+00.00

TOP SHEAR LINE

0.017 0.017 0.017 0.020 0.020 4:1

957.21

137+50.00

SHALLOW UNDERCUT EXCAVATION

26-MAY-2011 14:59
R:\Roadway\SSC\XPL\R-2611_Rdy_xp1_1.dgn
$$$$USERNAME$$$$

8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-2611	X-69

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

970 960 950 940 930 980 970 960

4:1 0.020 0.020 0.020 0.020 0.020 4:1

949.75

140+00.00

4:1 0.020 0.020 0.020 0.020 0.020 4:1

951.07

139+50.00

4:1 0.020 0.020 0.020 0.020 4:1

952.60

139+00.00

SHALLOW UNDERCUT EXCAVATION

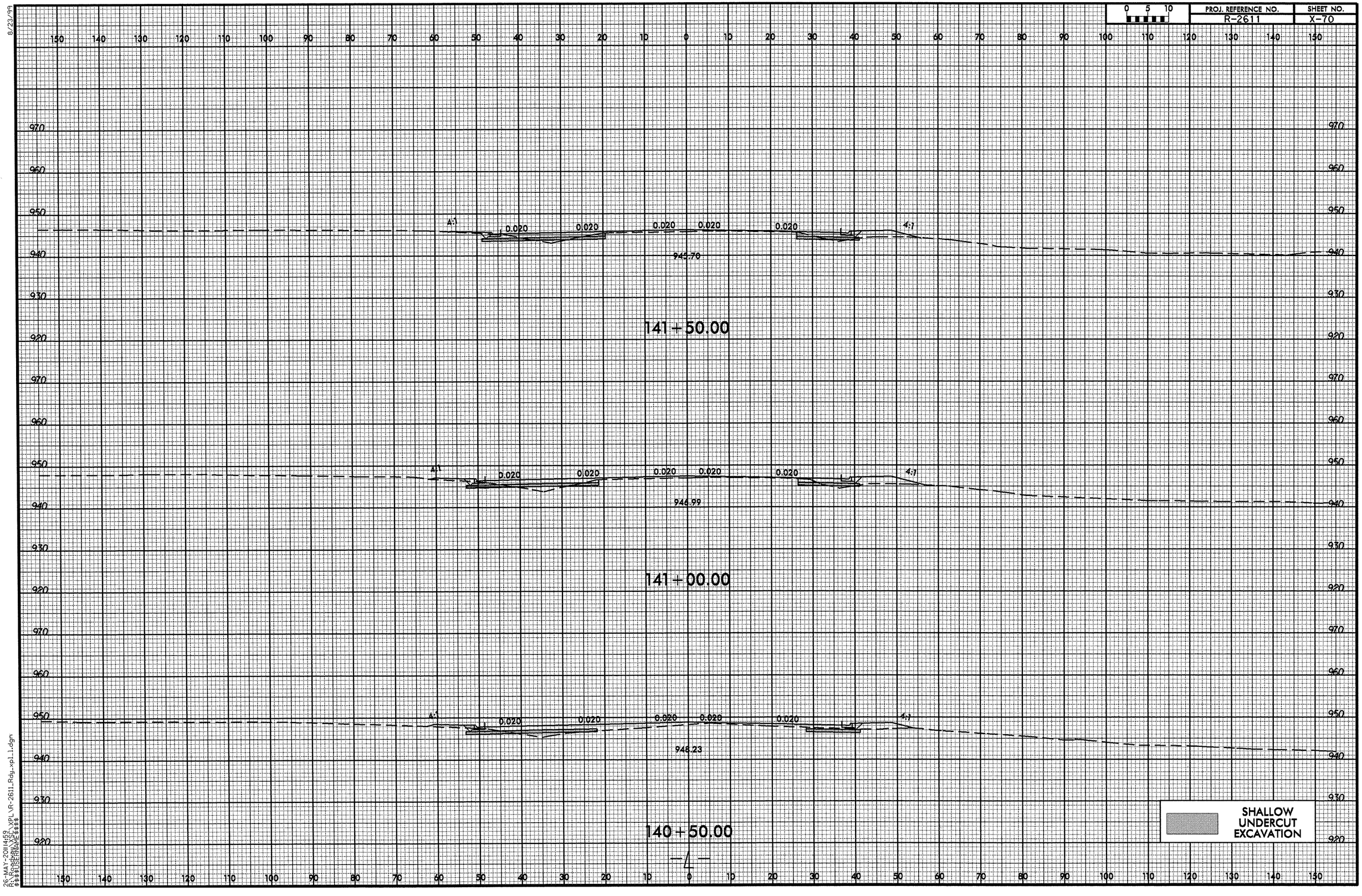
-4-

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

26-MAY-2011 14:59
R:\Roadway\XSEC\XPL\R-2611_Rdy_xpl_1.dgn
$$$$USERNAME$$$$

8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-2611	X-70



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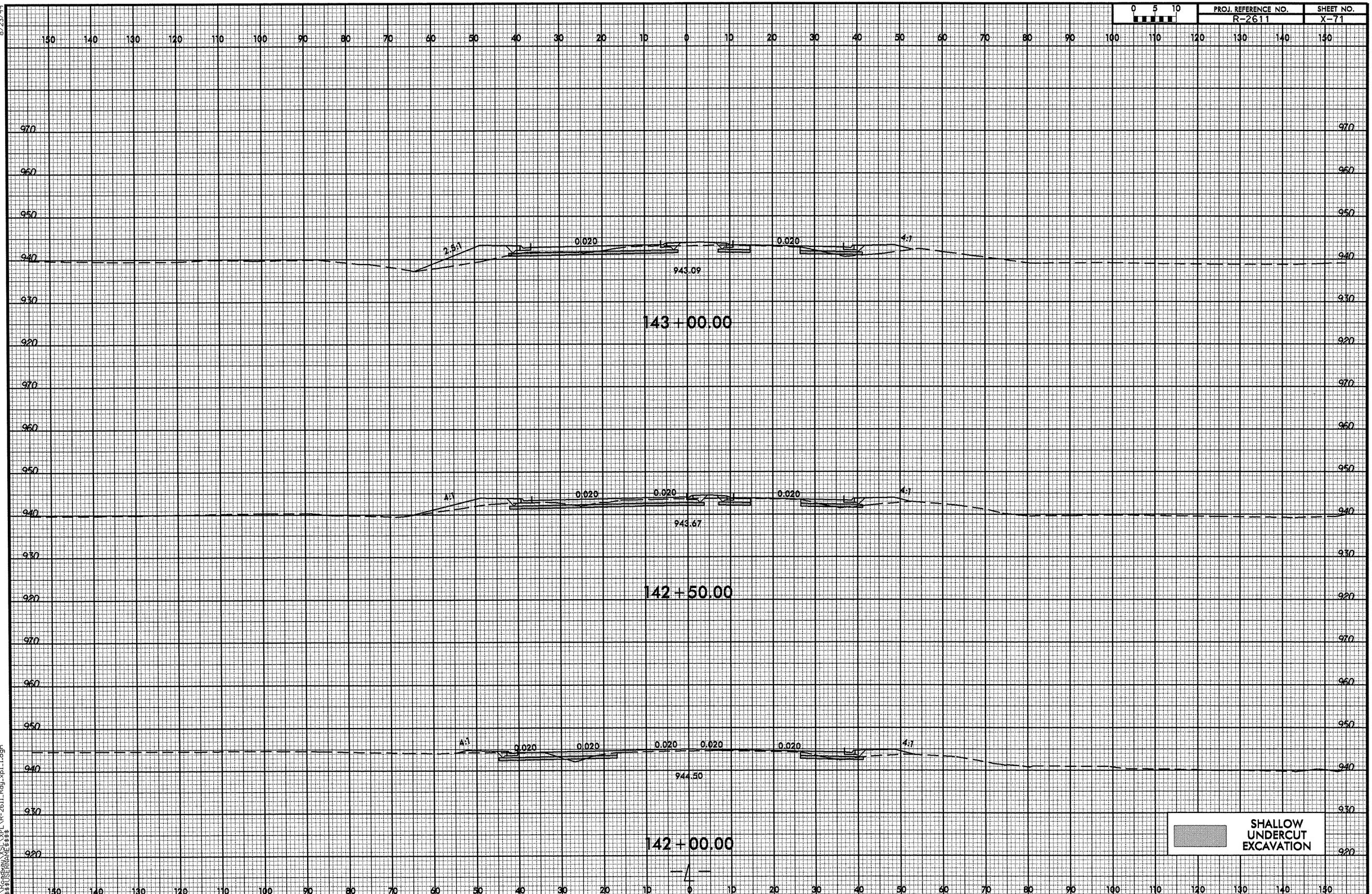


8/23/99

26-MAY-2011 14:59
R:\Roadway\XSC\XPL\R-2611_Rdy_xpl_1.dgn
$$$$USERNAME$$$$

8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-2611	X-72

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

970 960 950 940 930 920 910

4:1 0.020 0.020 4:1

941.47

145+00.00

4:1 0.020 0.020 4:1

941.79

144+50.00

2.3:1 0.020 0.020 4:1

942.20

144+00.00

0.020 0.020 4:1

942.54

143+50.00

SHALLOW UNDERCUT EXCAVATION

26-MAY-2011 14:59
R:\Roadway\XSEC\XPL\R-2611_Rdy_xpl1.dgn
$$$$USERNAME$$$$

8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-2611	X-73

146+50.00

939.07

146+00.00

939.43

145+50.00

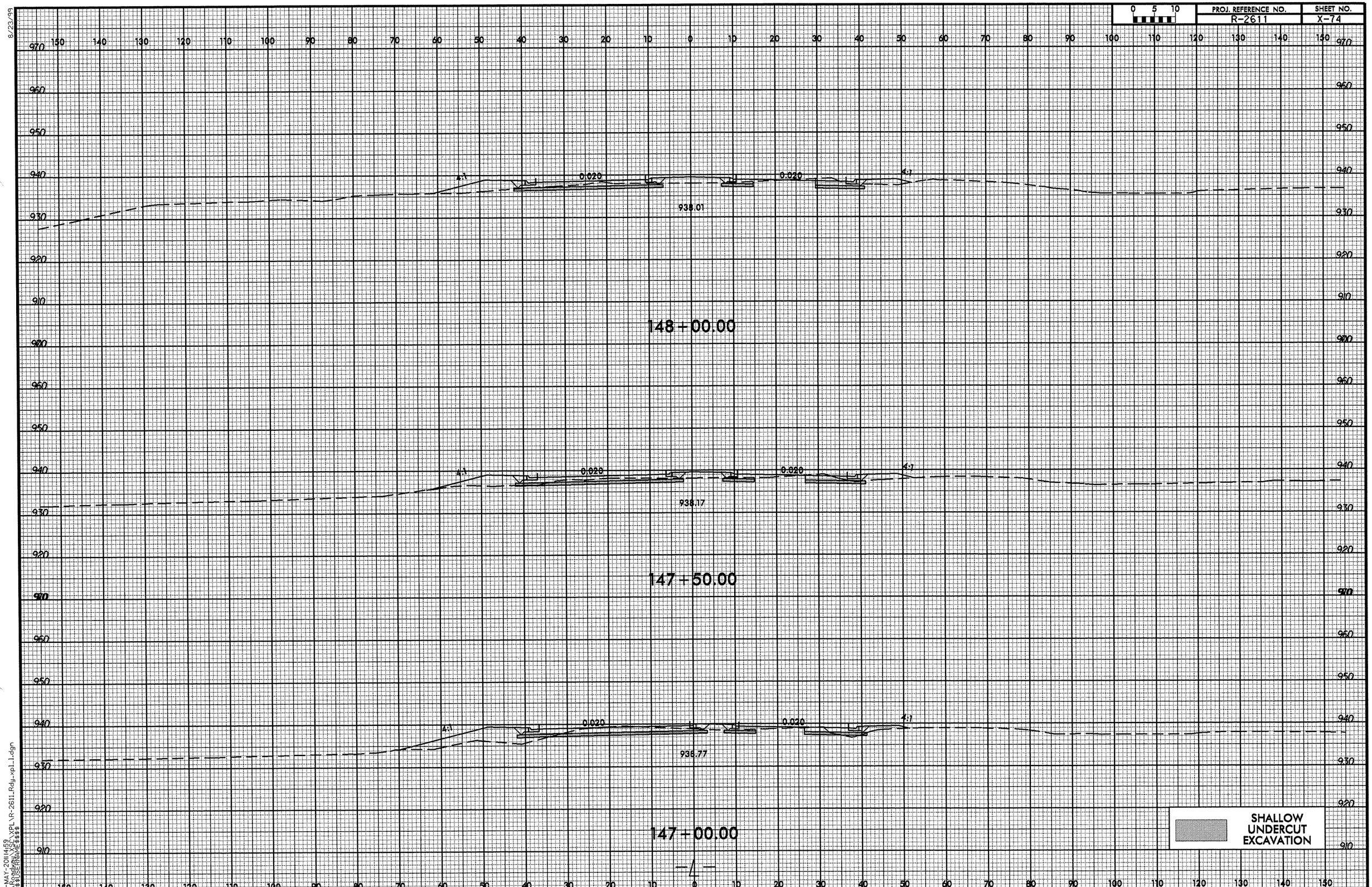
940.87

SHALLOW UNDERCUT EXCAVATION

26-MAY-2011 14:59
R:\Roadway\XSC\XPL\R-2611_Rdy_xpl_1.dgn
$$$$USERNAME$$$$

8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-2611	X-74



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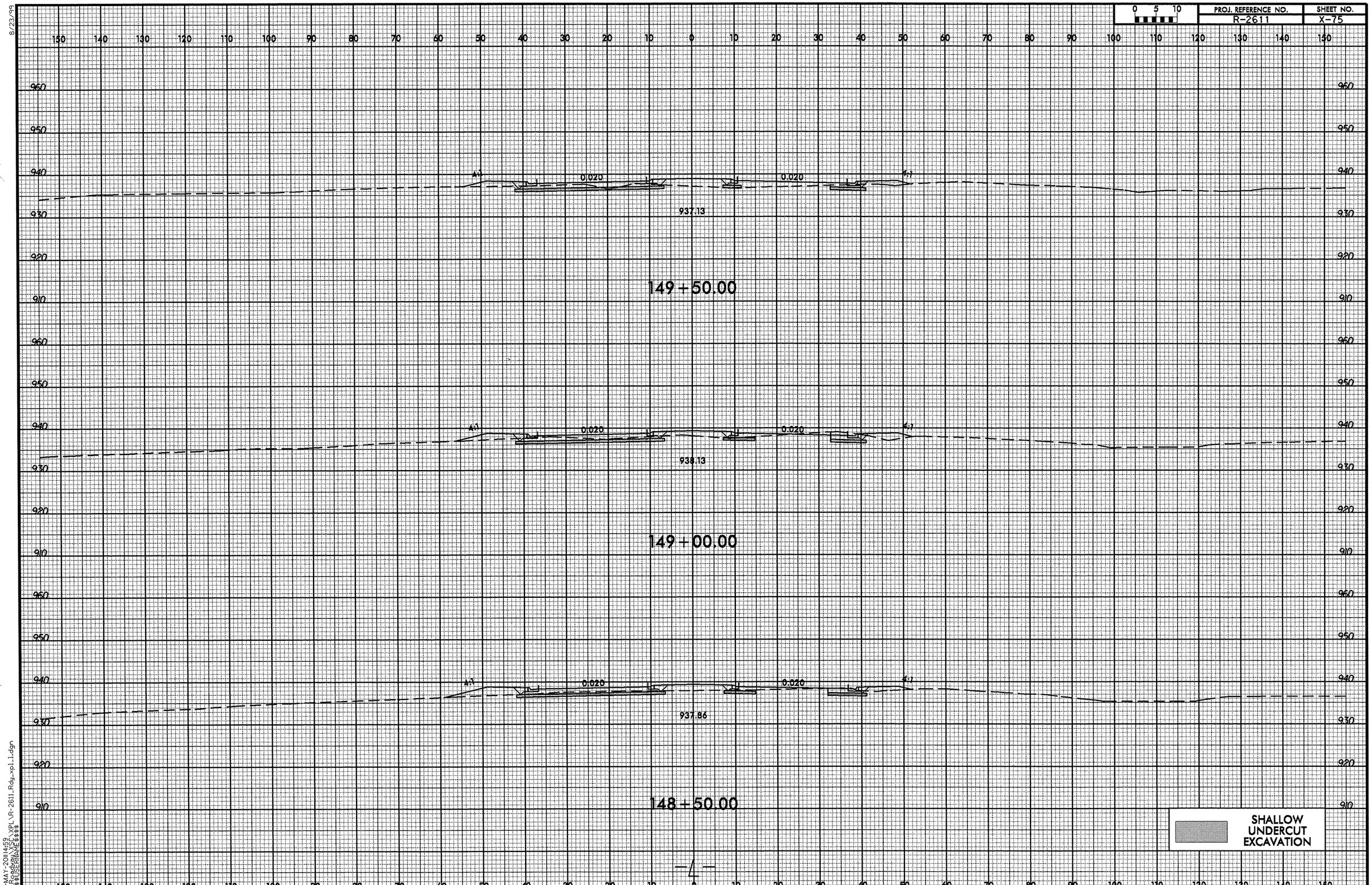
$$$$USERNAME$$$$

8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-2611	X-75



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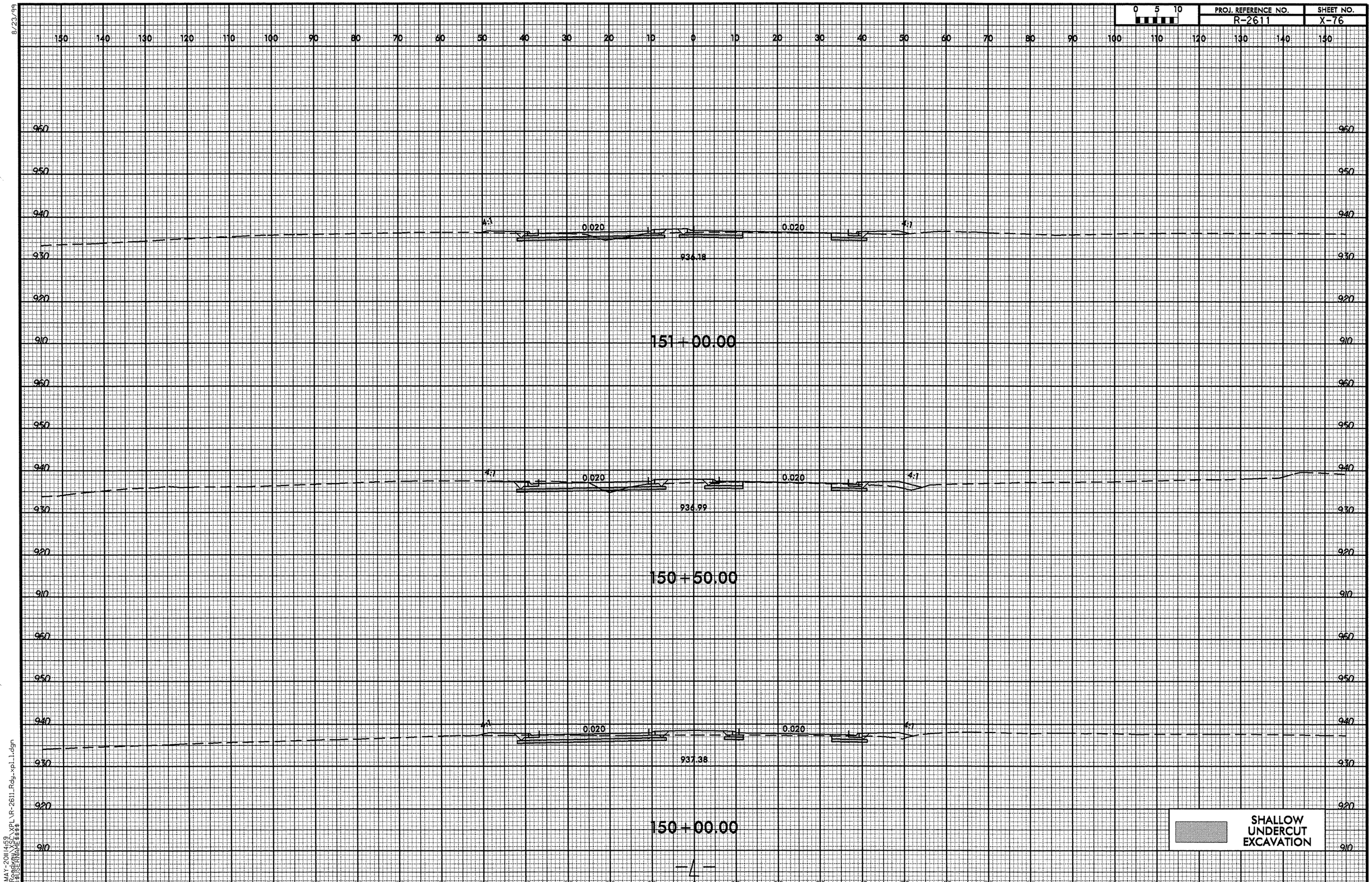
8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-2611	X-76



26-MAY-2011 14:59
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$$$$USERNAME$$$$

8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-2611	X-77

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

960 950 940 930 920 910

4:1 0.011 0.020 0.020 4:1

933.01

152+50.00

4:1 0.020 0.020 0.020 4:1

934.17

152+00.00

4:1 0.020 0.020 4:1

935.24

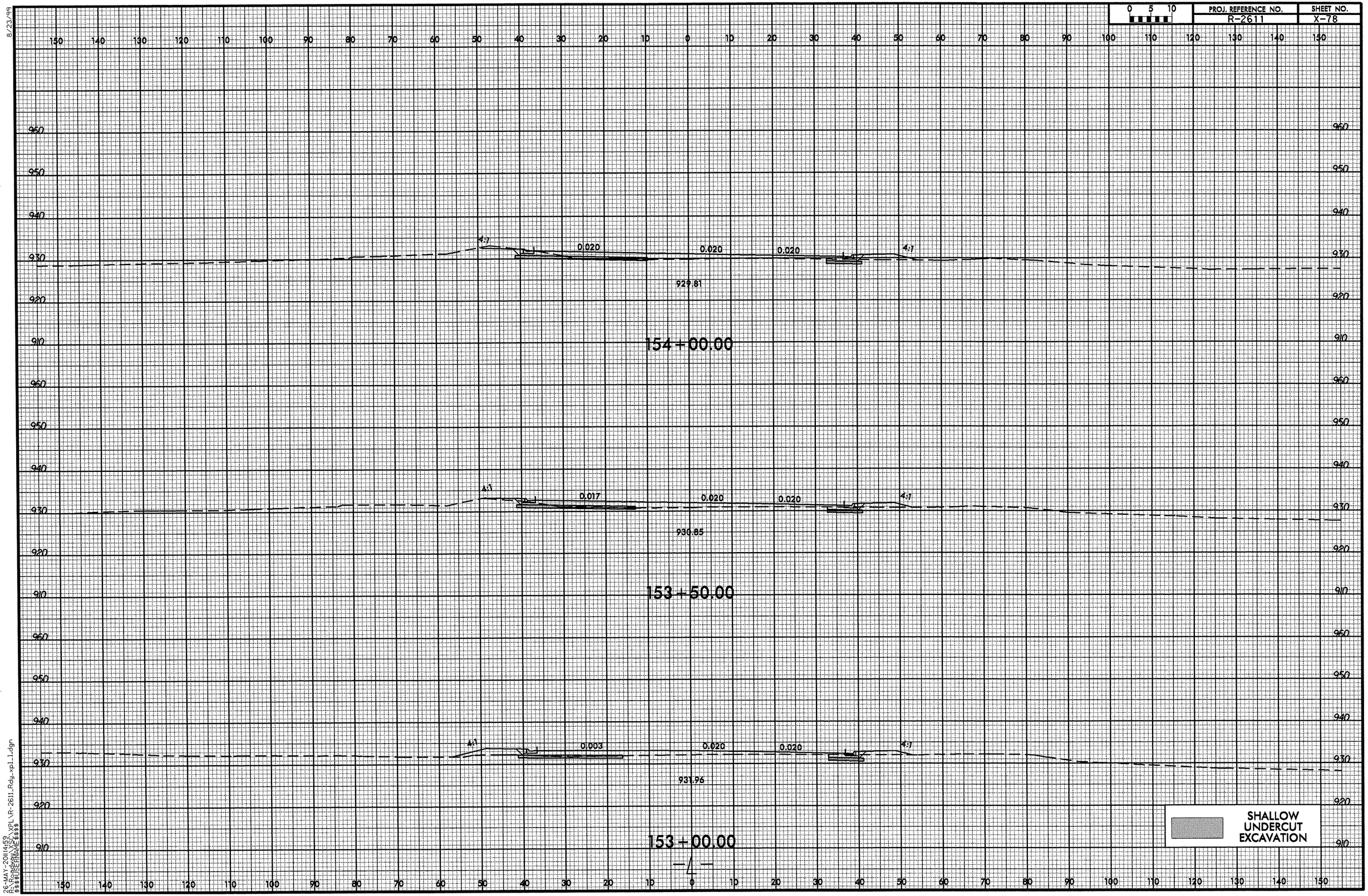
151+50.00

SHALLOW UNDERCUT EXCAVATION

26-MAY-2011 14:59
R:\Roadway\XSC\XPL\R-2611_Rdy_xpl1.1.dgn
$$$$USERNAME$$$$

8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-2611	X-78



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8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-2611	X-79

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

960 950 940 930 920 910 900 950 940 930

4:1 0.020 0.020 4:1

926.54

155+50.00

4:1 0.020 0.020 0.020 4:1

926.37

155+00.00

4:1 0.020 0.020 0.020 4:1

926.83

154+50.00

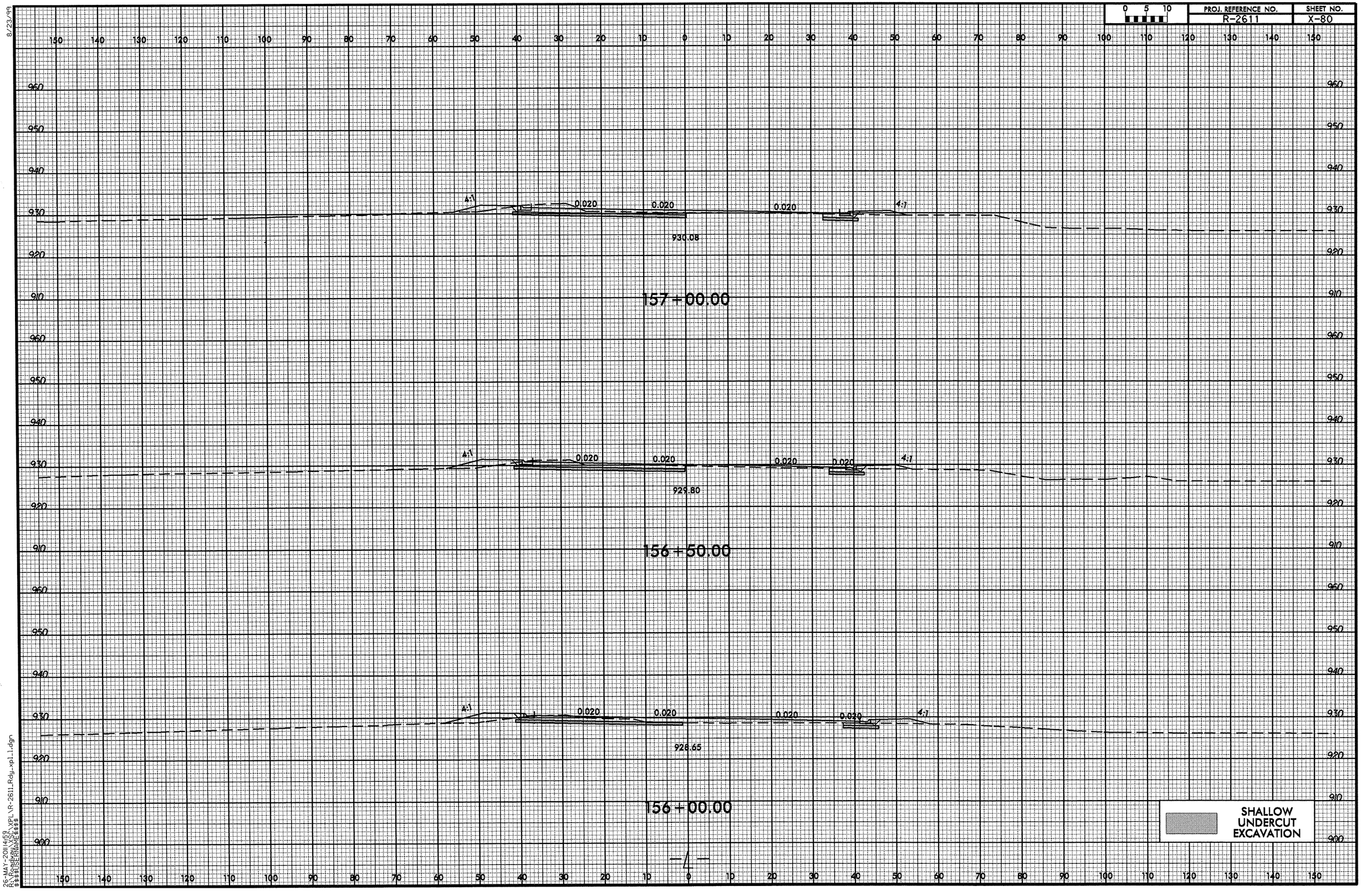
SHALLOW UNDERCUT EXCAVATION

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

26-MAY-2011 14:59
R:\Roadway\SCL\XPL\R-2611_Rdy_xpl_1.dgn
$$$$USERNAME$$$$

8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-2611	X-80



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8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-2611	X-81

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

960 950 940 930 920 910

4:1 0.019 0.020 0.015 FT./FT.

931.51

158+50.00

960 950 940 930 920 910

4:1 0.005 0.005 0.020 4:1

930.87

158+00.00

960 950 940 930 920 910

4:1 0.008 0.008 0.020 4:1

930.15

157+50.00

SHALLOW UNDERCUT EXCAVATION

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

-4-

26-MAY-2011 14:59
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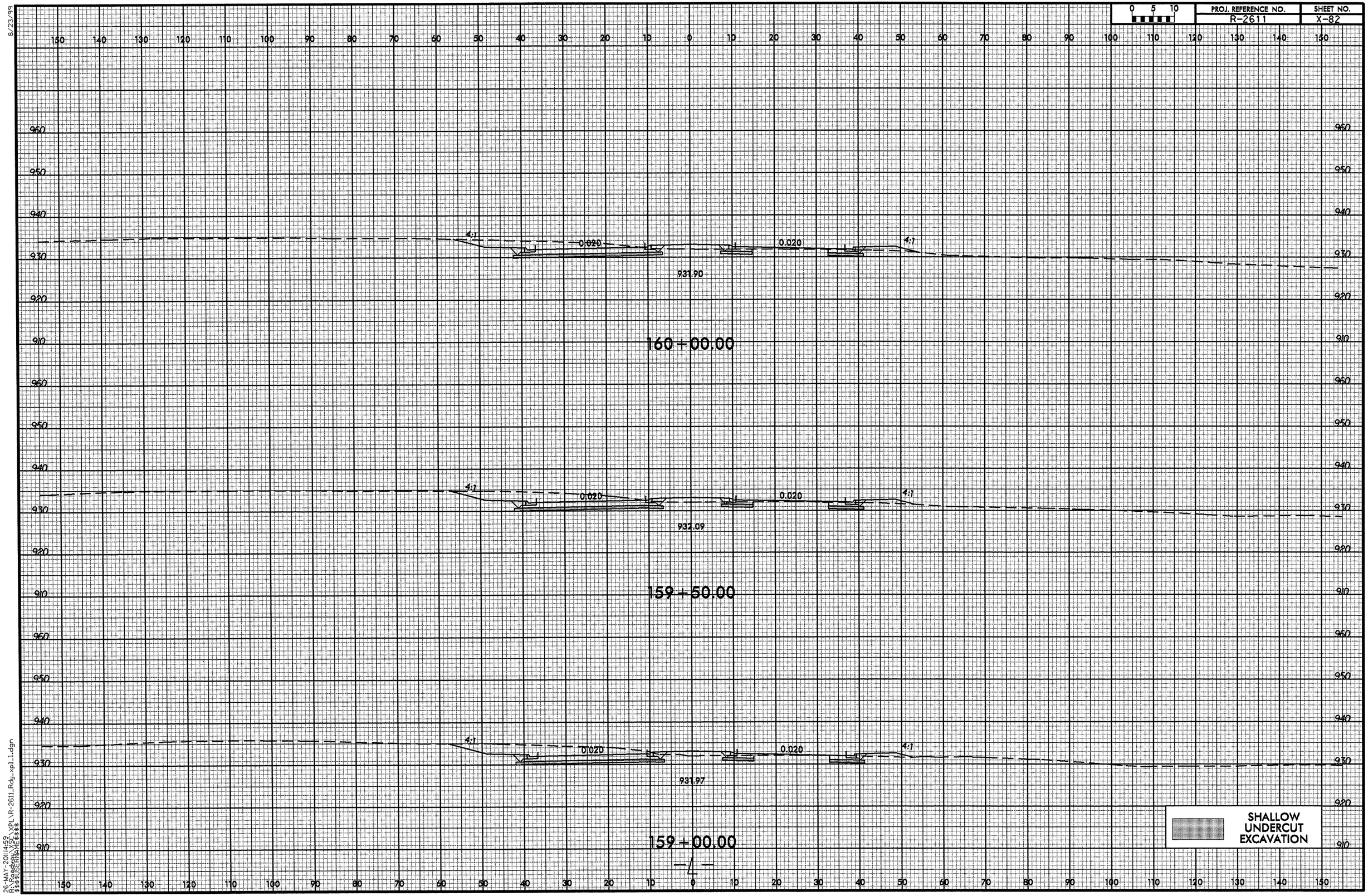
8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-2611	X-82



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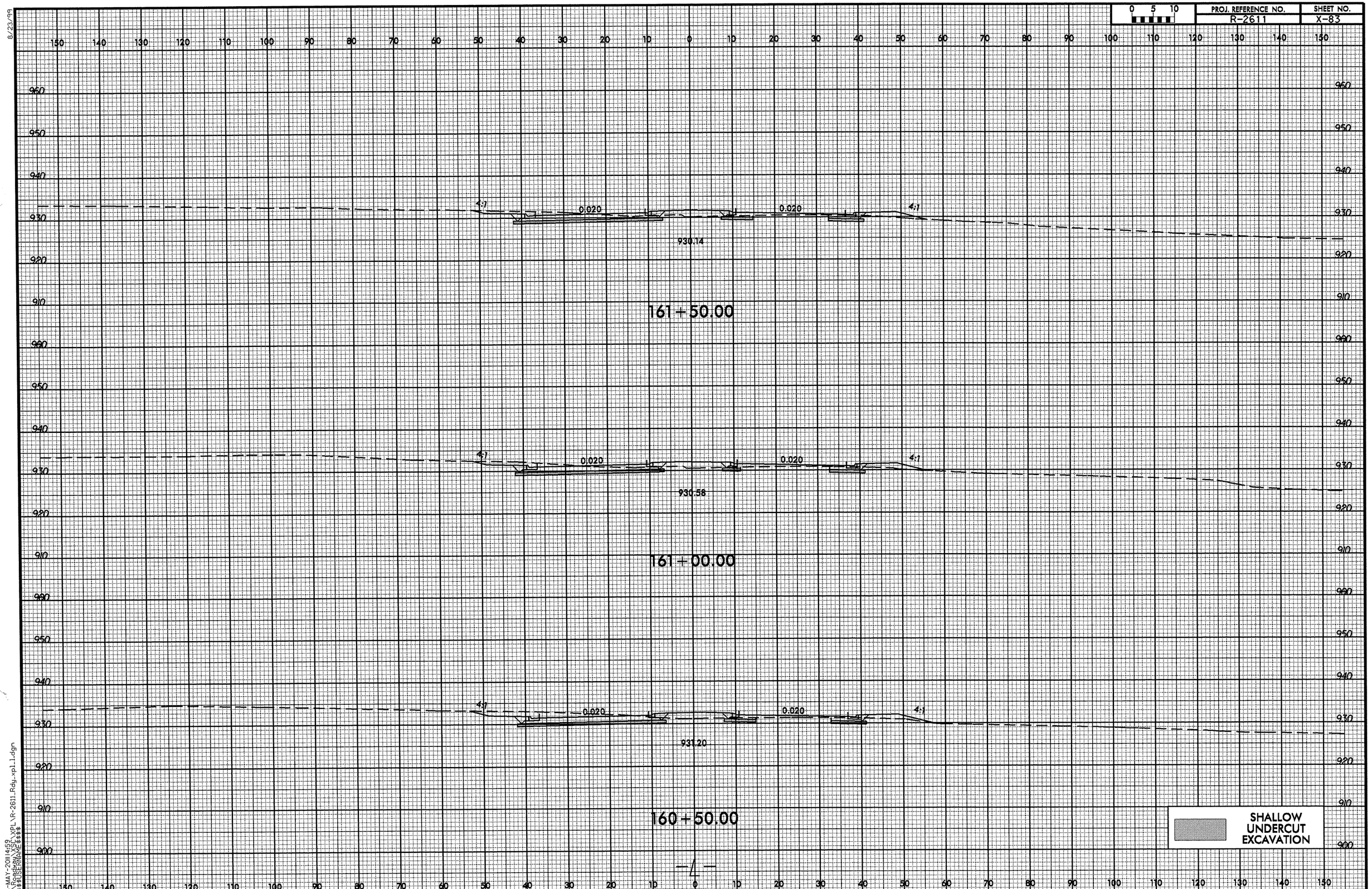
8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-2611	X-83



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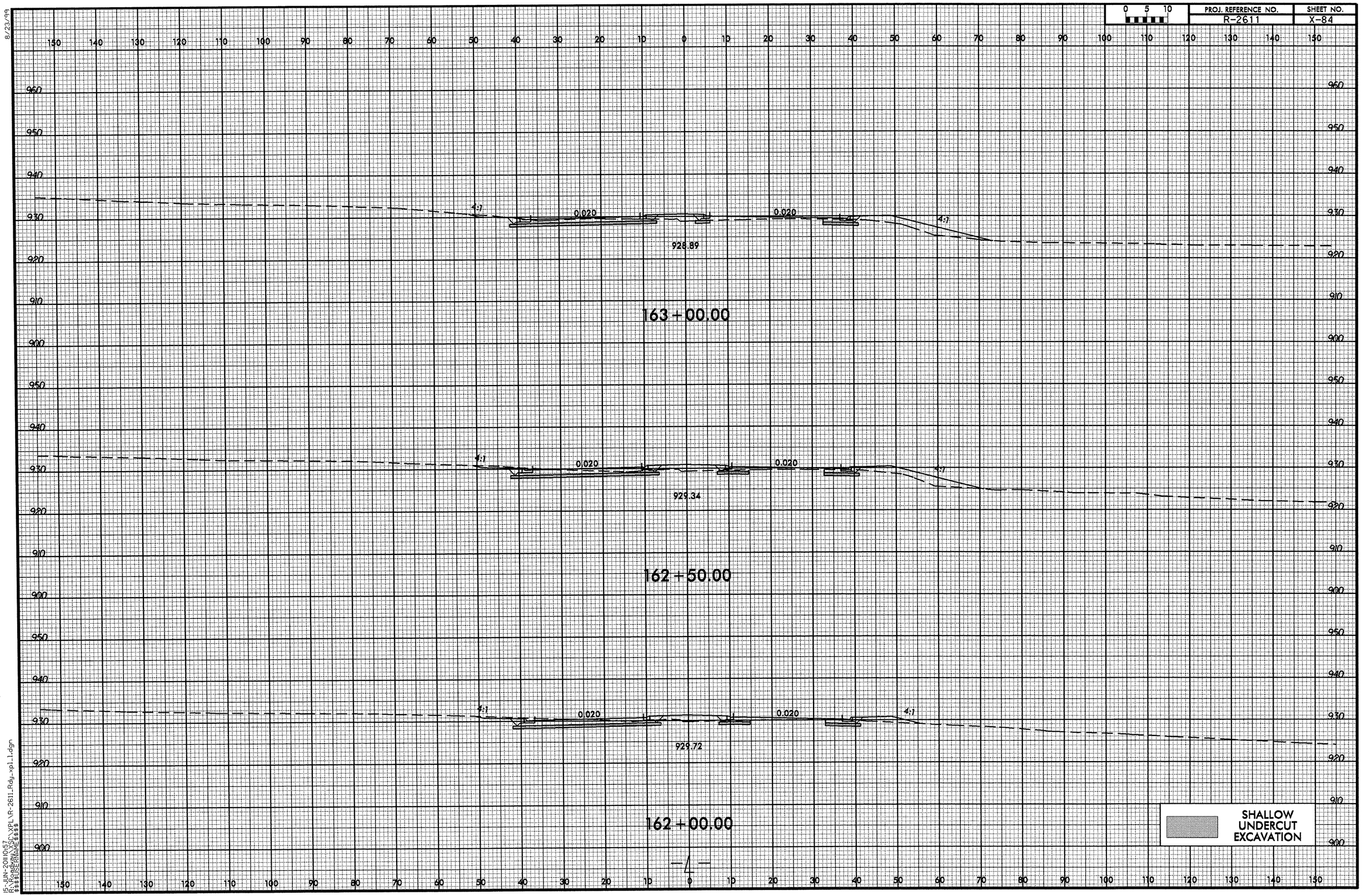

8/23/99

15-JUN-2011 10:57
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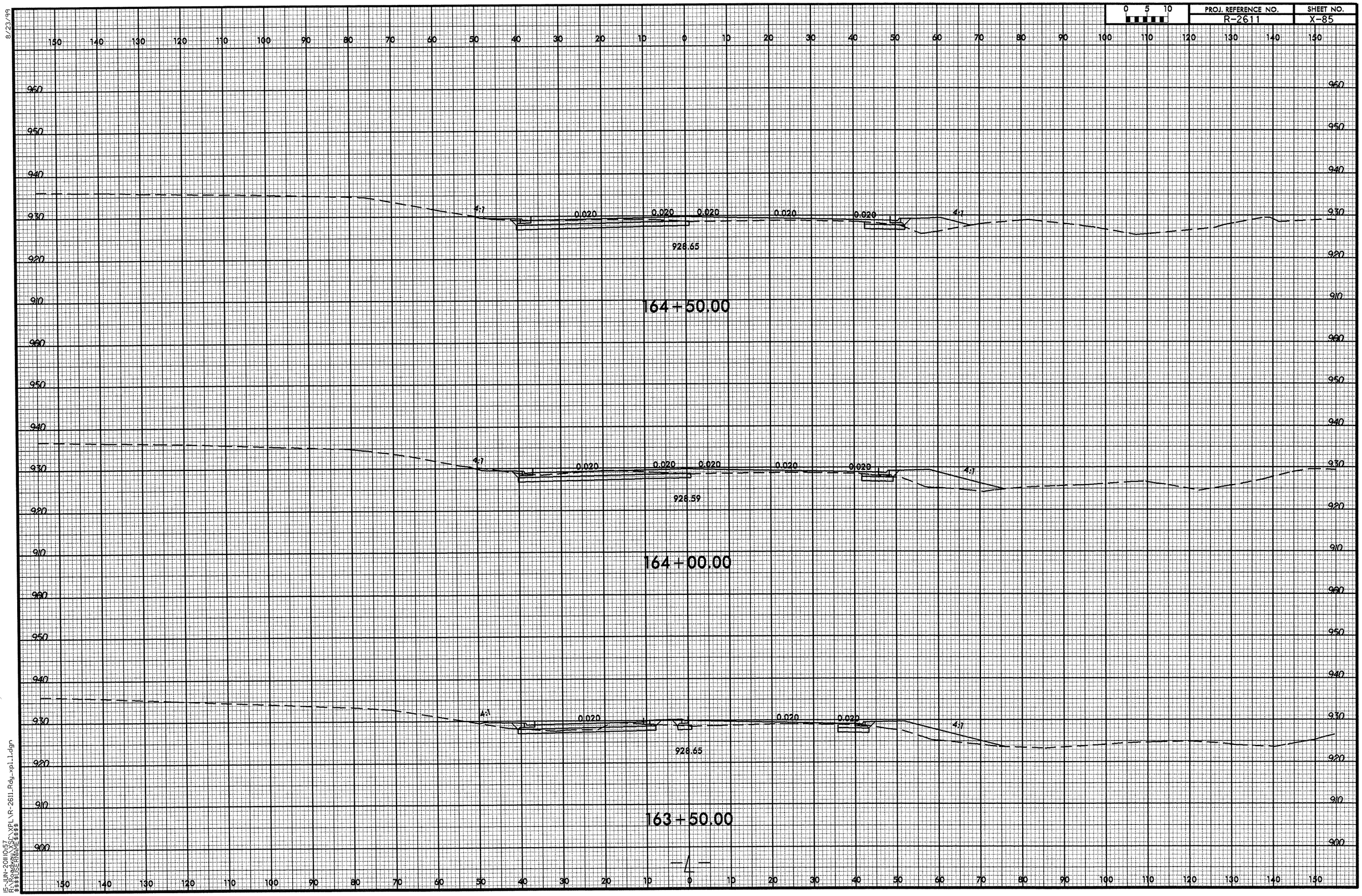
$$$$USERNAME$$$$



0 5 10
PROJ. REFERENCE NO.
R-2611
SHEET NO.
X-85
8/23/99
164+50.00
928.65
4:1
0.020
164+00.00
928.59
163+50.00
928.65
15-JUN-2011 10:57
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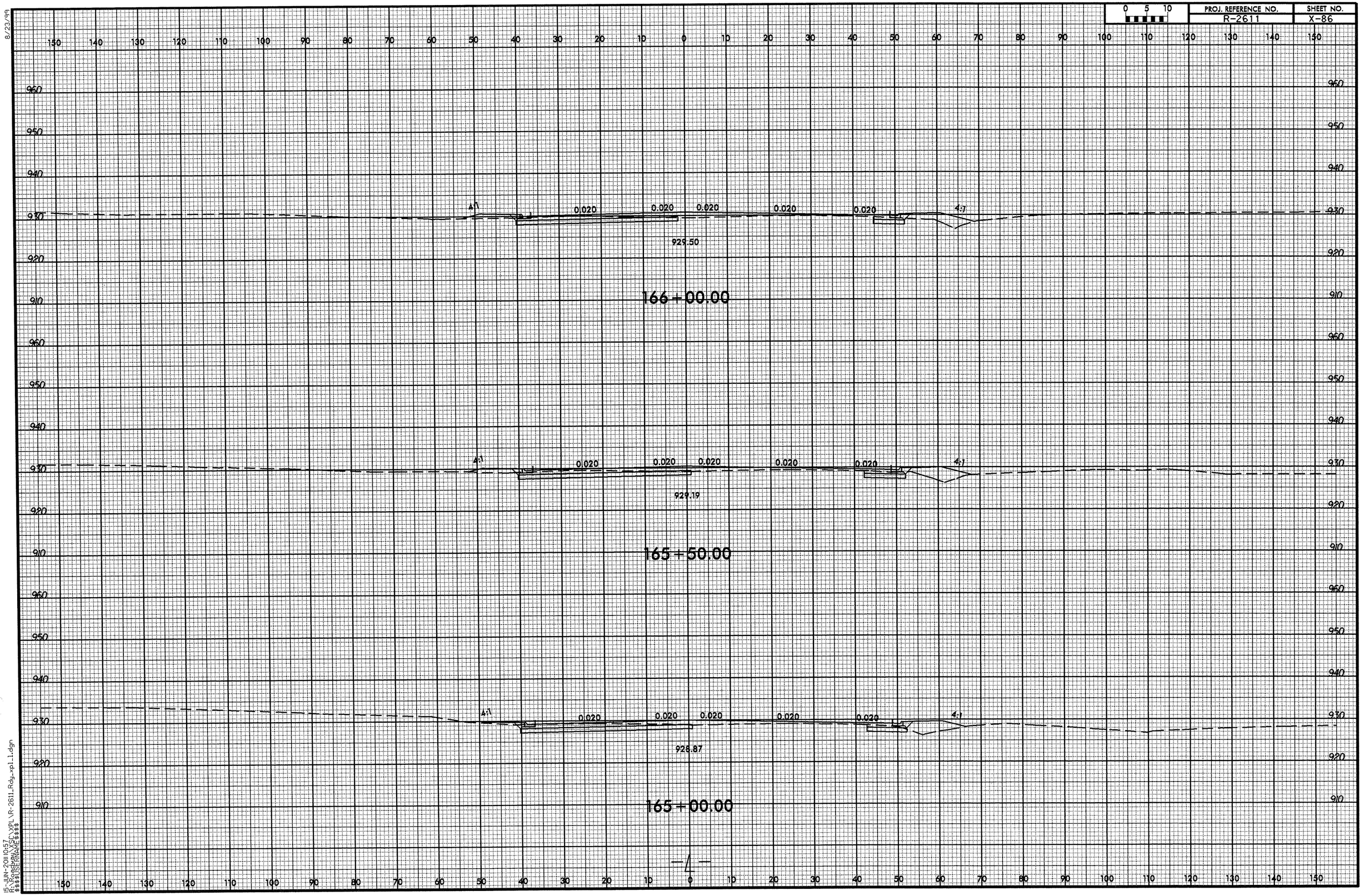
$$$$USERNAME$$$$



0 5 10
PROJ. REFERENCE NO.
R-2611
SHEET NO.
X-86
8/23/99
4:1
0.020
929.50
166+00.00
929.19
165+50.00
928.87
165+00.00
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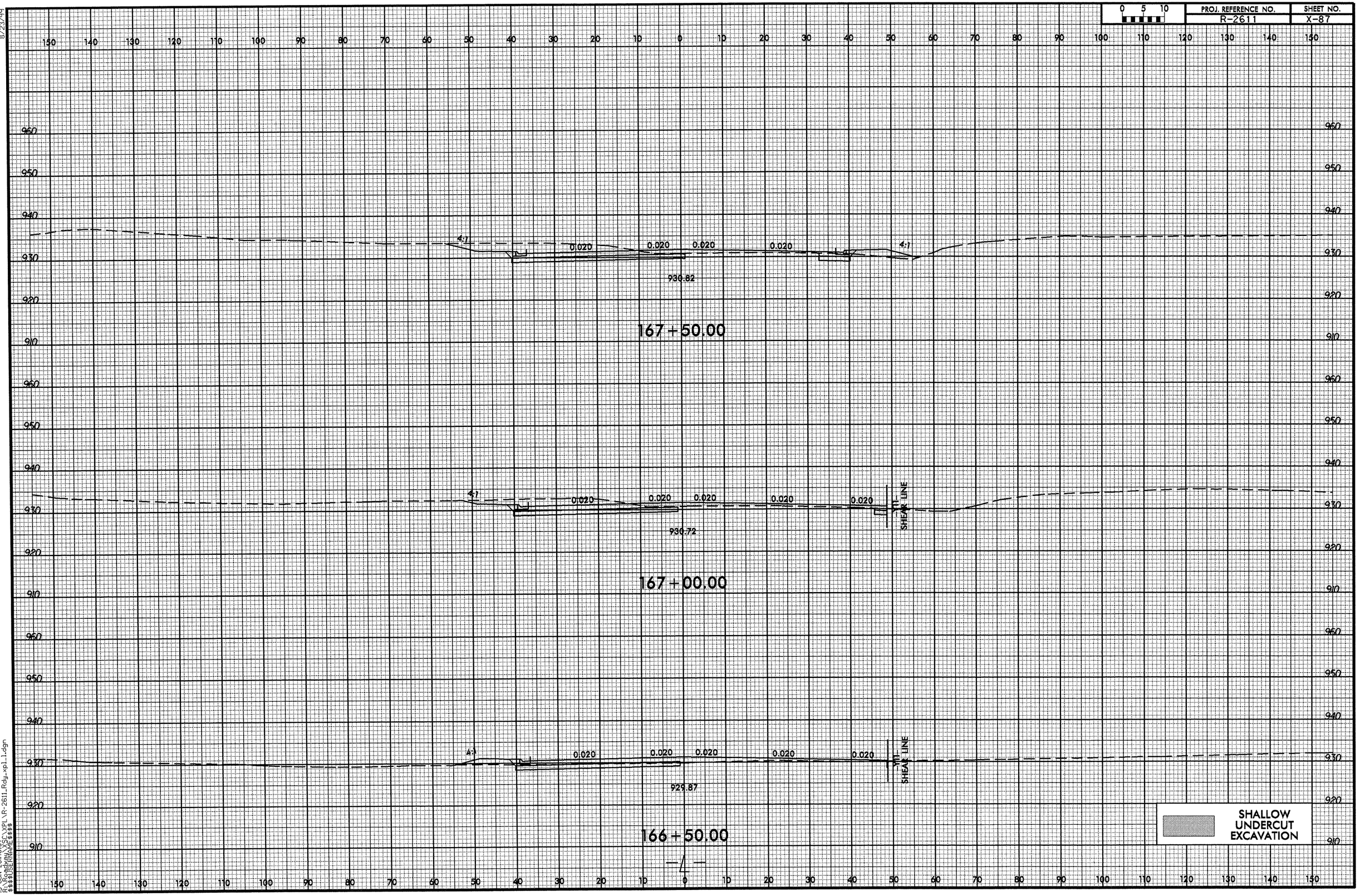

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15-JUN-2011 10:57
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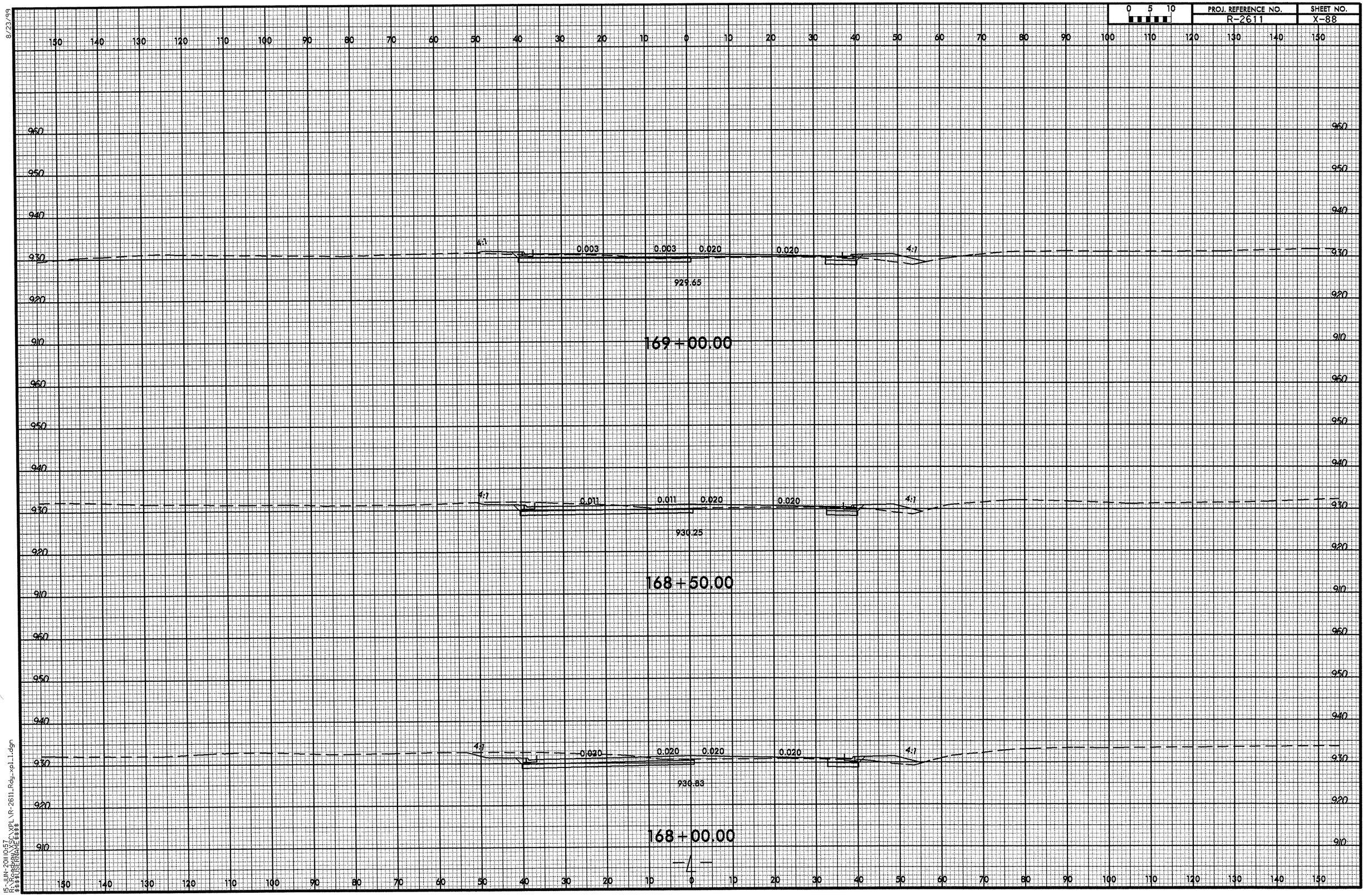
8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-2611	X-88



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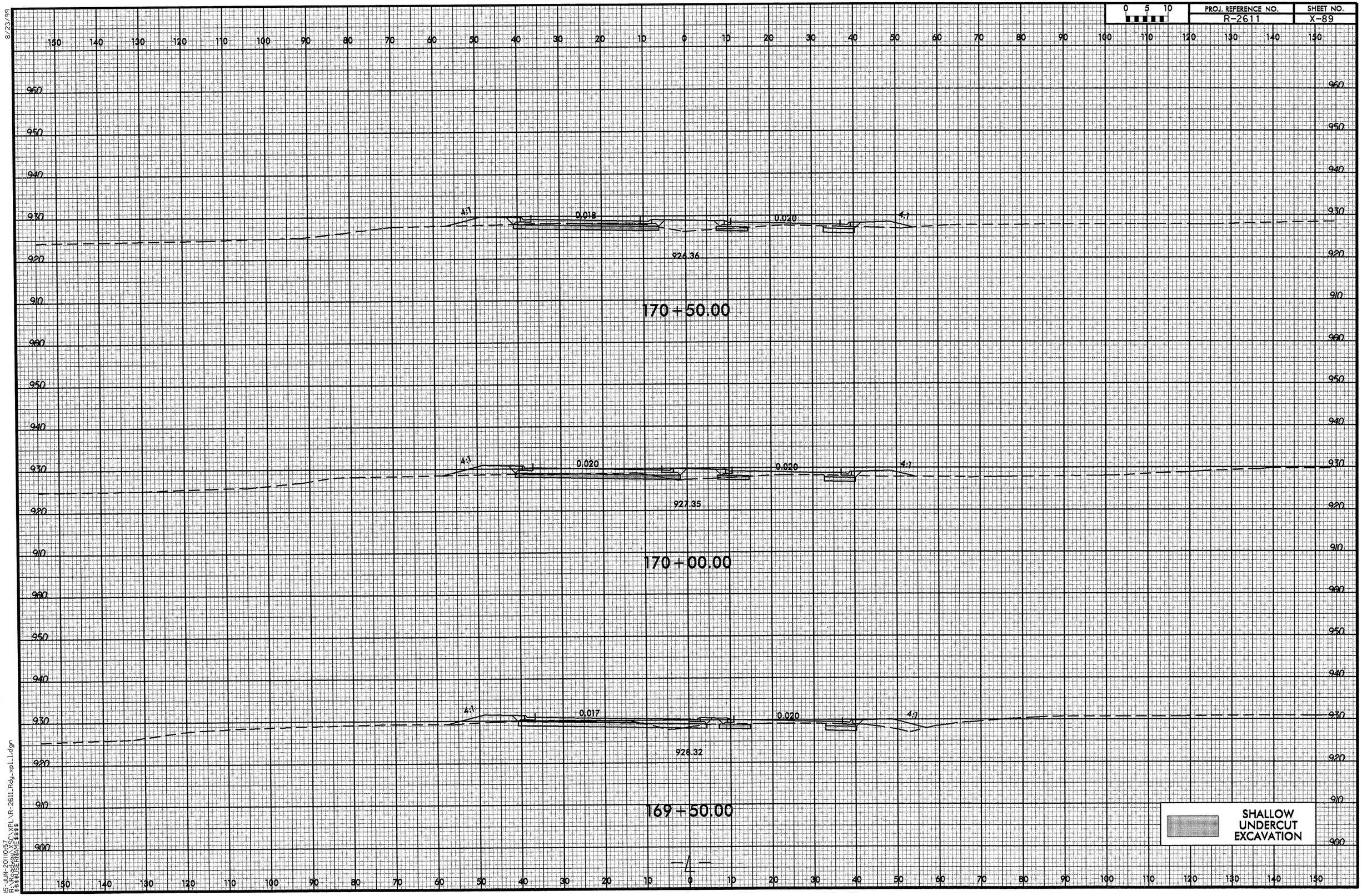
8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-2611	X-89



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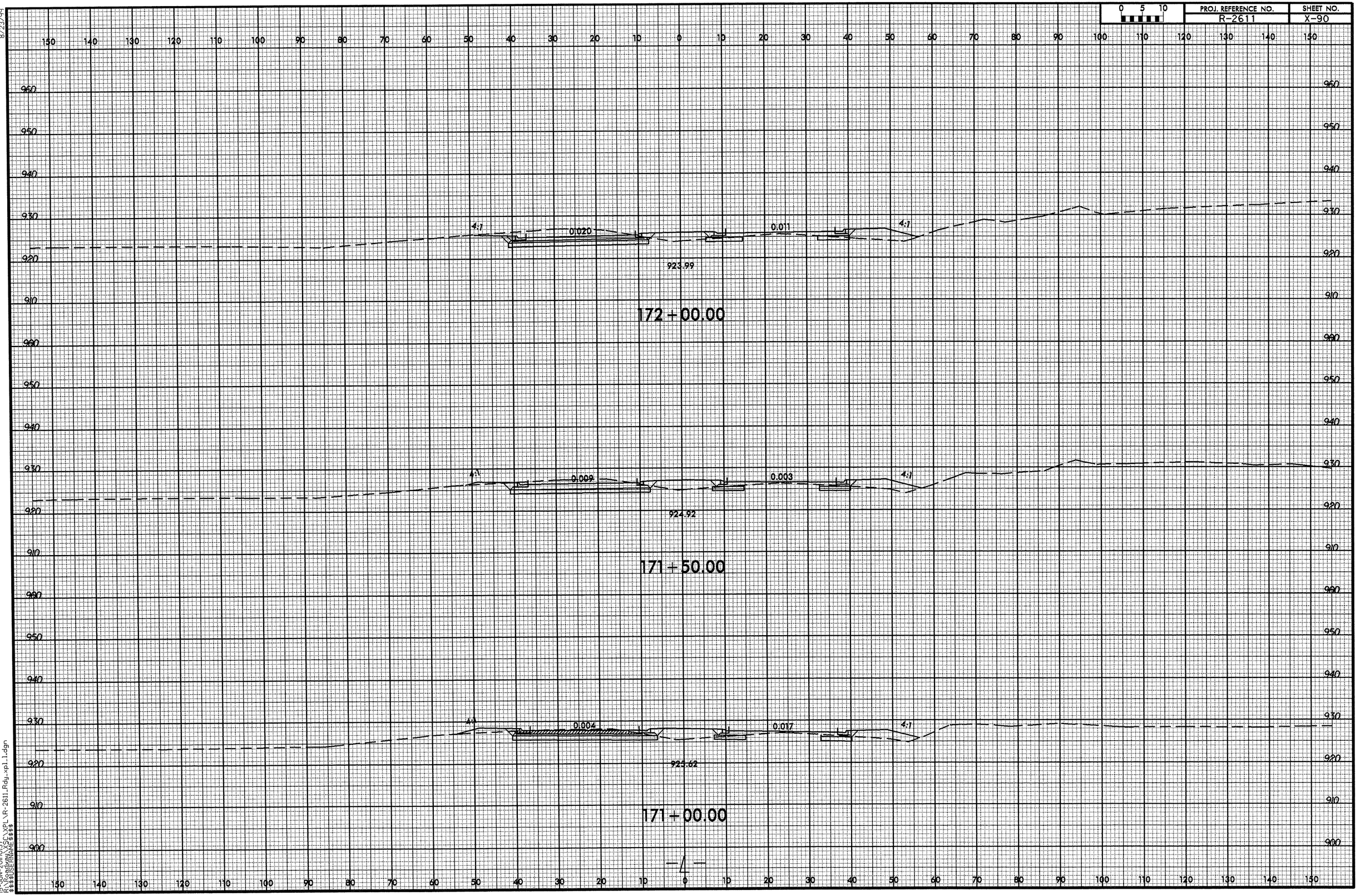

8/23/99

15-JUN-2011 10:57
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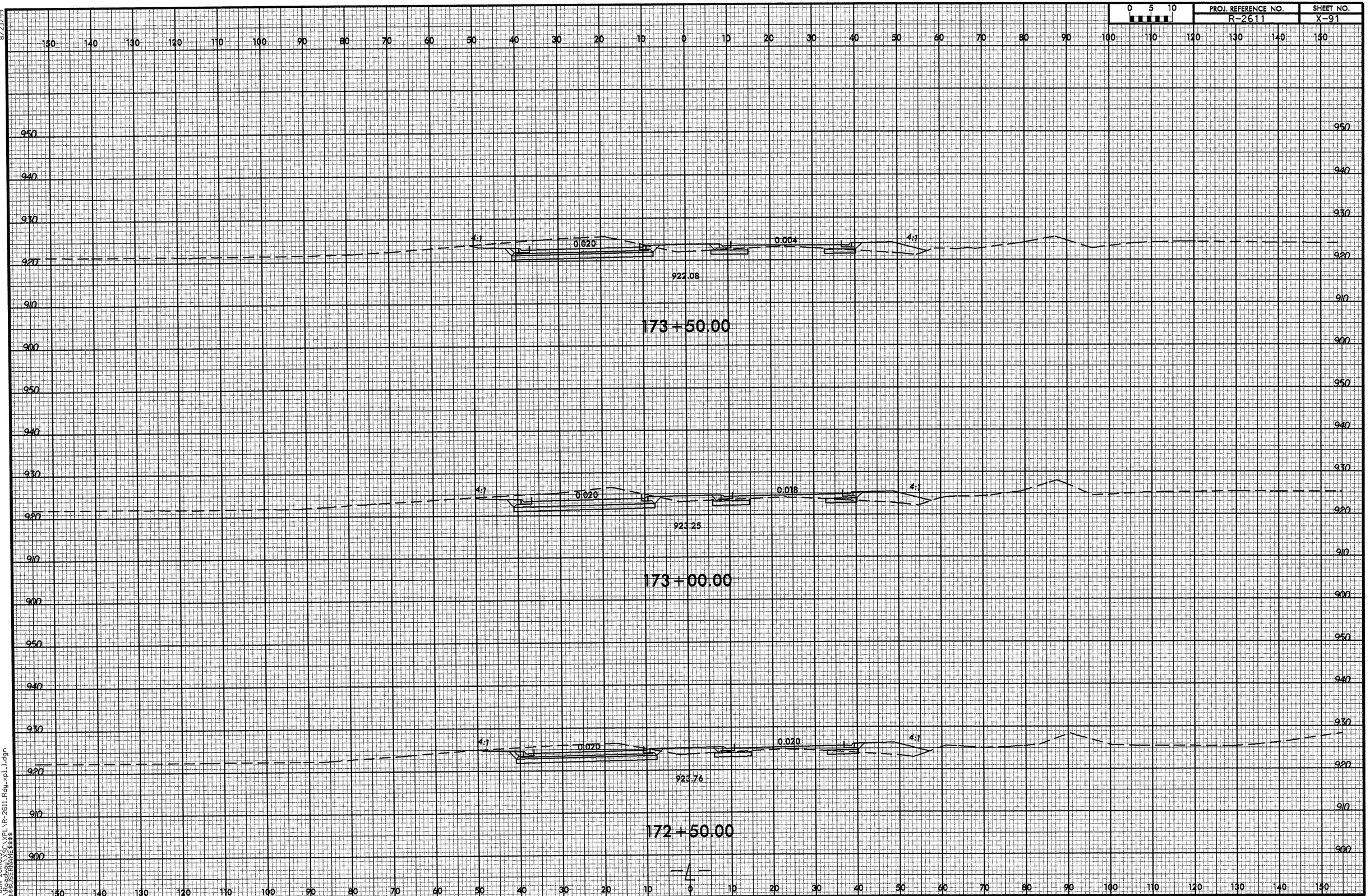
$$$$USERNAME$$$$



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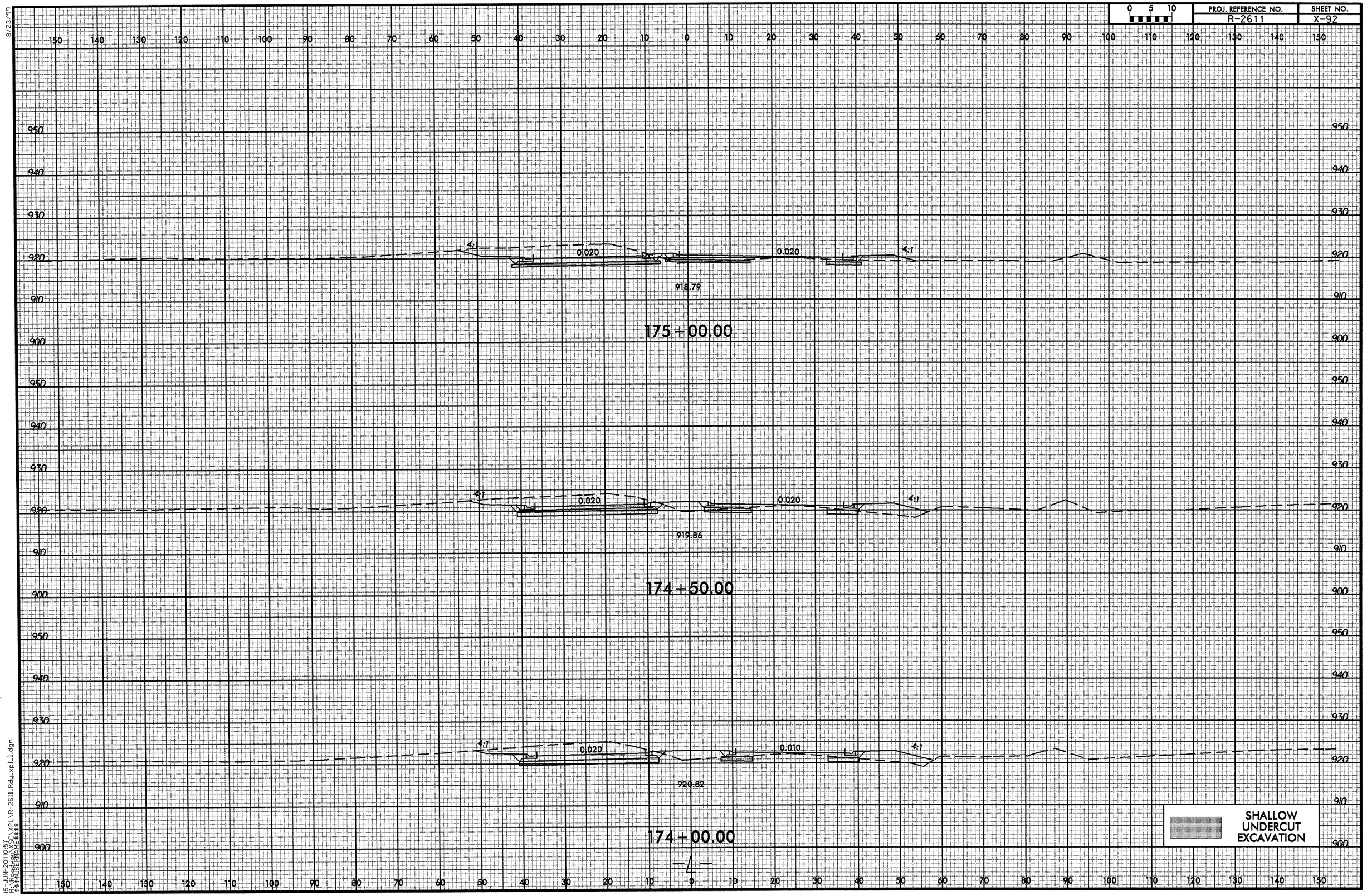

8/23/99

15-JUN-2011 10:57
R:\Roadway\XSC\XPL\R-2611_Rdy_xpl_1.dgn
$$$$USERNAME$$$$

8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-2611	X-93

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

950 940 930 920 910 900 890

4:1 0.020 0.020 4:1

913.74

176+50.00

4:1 0.020 0.020 4:1

915.92

176+00.00

4:1 0.020 0.020 4:1

917.55

175+50.00

SHALLOW UNDERCUT EXCAVATION

26-MAY-2011 15:00
R:\Roadway\XSC\XPL\R-2611_Rdy_xpl_1.dgn
$$$$USERNAME$$$$

8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-2611	X-94

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

940 930 920 910 900 890 880

4:1 0.020 4:1 0.020 4:1

909.01

178+00.00

940 930 920 910 900 890

4:1 0.020 4:1 0.020 4:1

910.36

177+50.00

940 930 920 910 900 890

4:1 0.020 4:1 0.020 4:1

911.66

177+00.00

SHALLOW UNDERCUT EXCAVATION

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

26-MAY-2011 15:00
R:\Roadway\xsc\xpl\r-2611_Rdy_xpl_1.dgn
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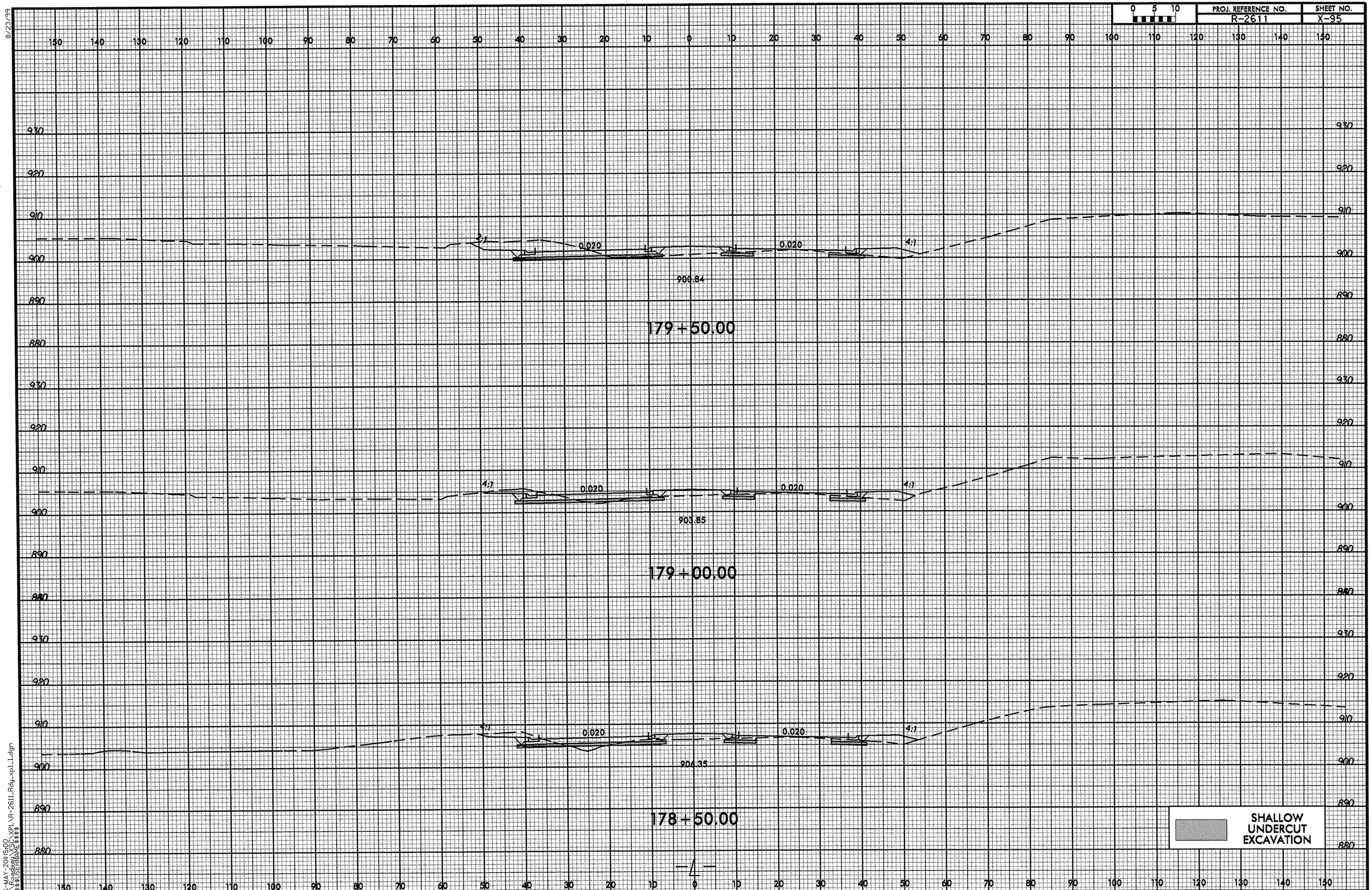
8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-2611	X-95



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$$$$USERNAME$$$$

8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-2611	X-96

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

930 920 910 900 890 880 870

0.020 0.017 4:1

895.55

181+00.00

0.020 0.003 4:1

896.03

180+50.00

0.020 0.011 4:1

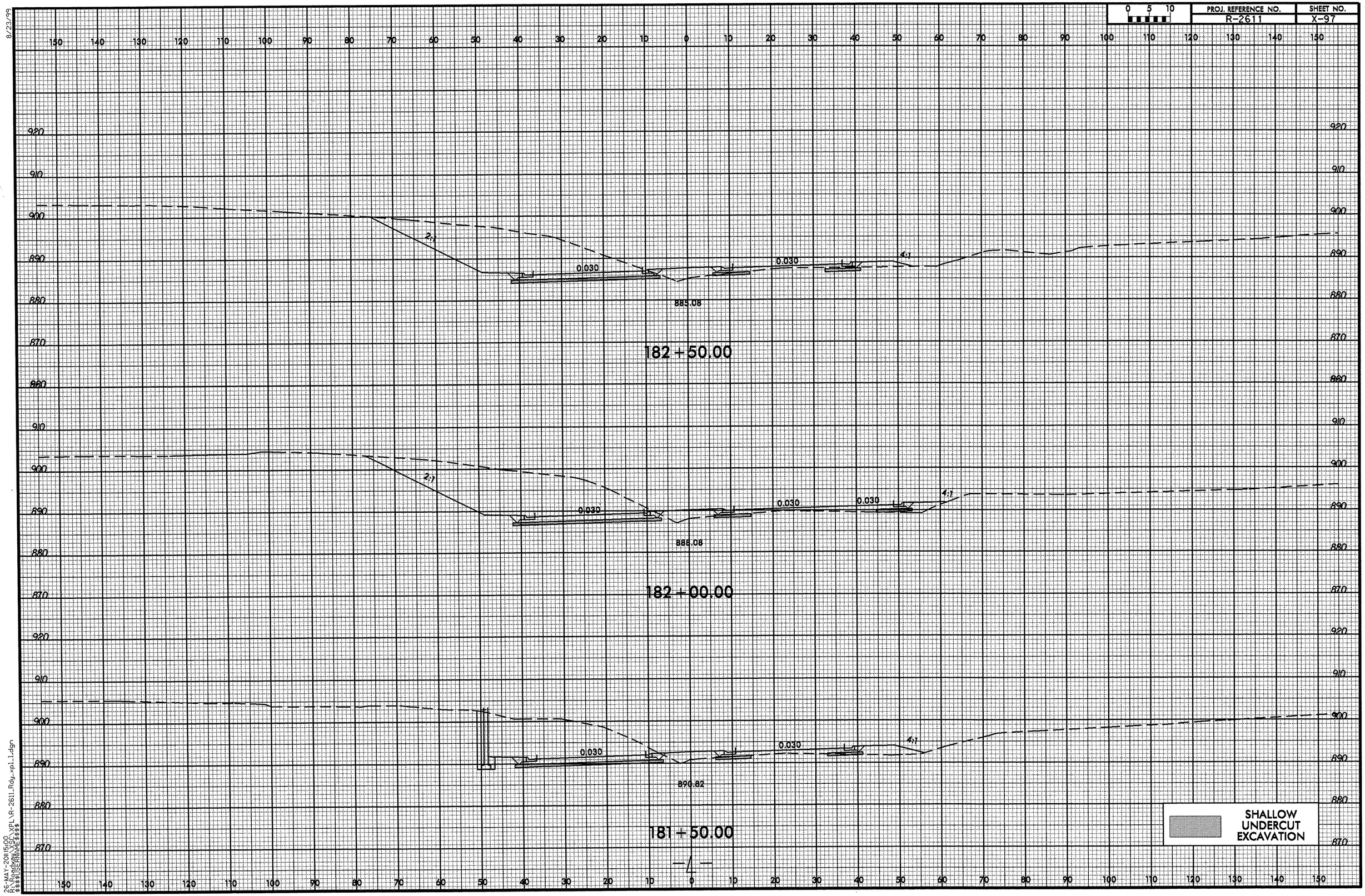
898.54

180+00.00

SHALLOW UNDERCUT EXCAVATION

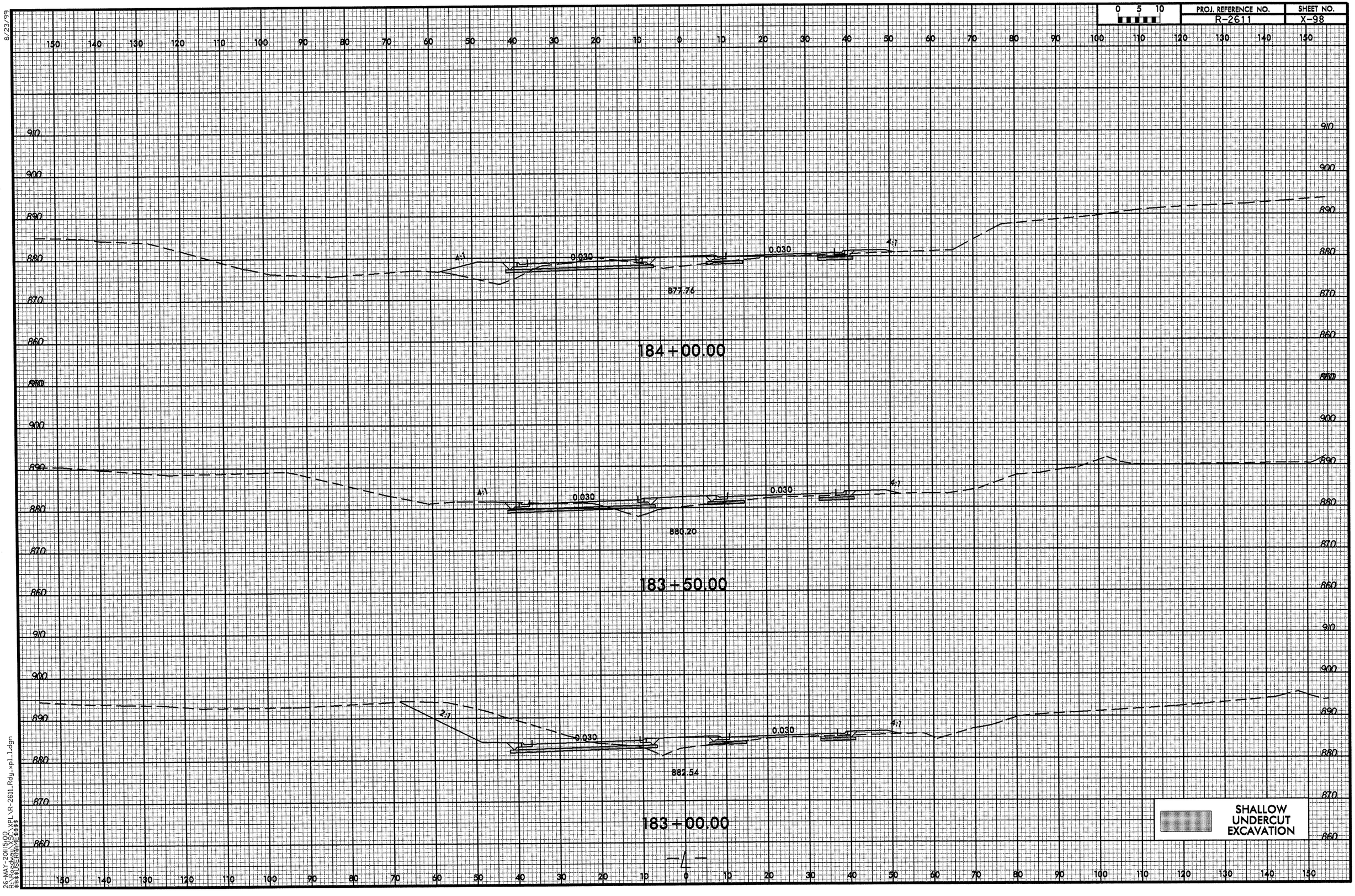
—4—

26-MAY-2011 15:00
R:\Roadway\XSC\XPL\R-2611_Rdy_xpl_1.dgn
$$$$USERNAME$$$$



8/23/99

26-MAY-2011 15:00
R:\Roadway\XSC\XPL\R-2611_Rdy_xpl_1.dgn
$$$$USERNAME$$$$



8/23/99

26-MAY-2011 15:00
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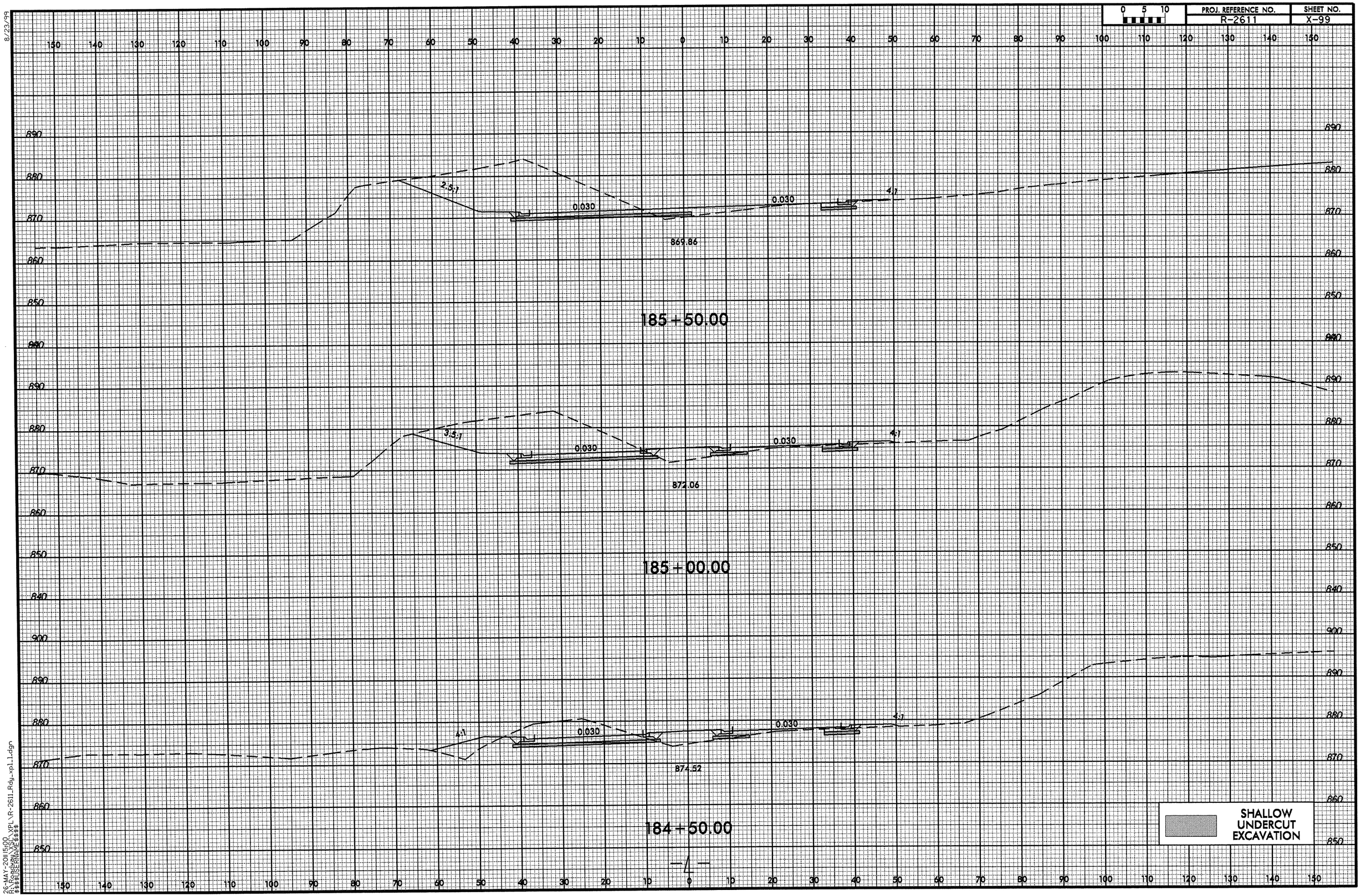
$$$$USERNAME$$$$

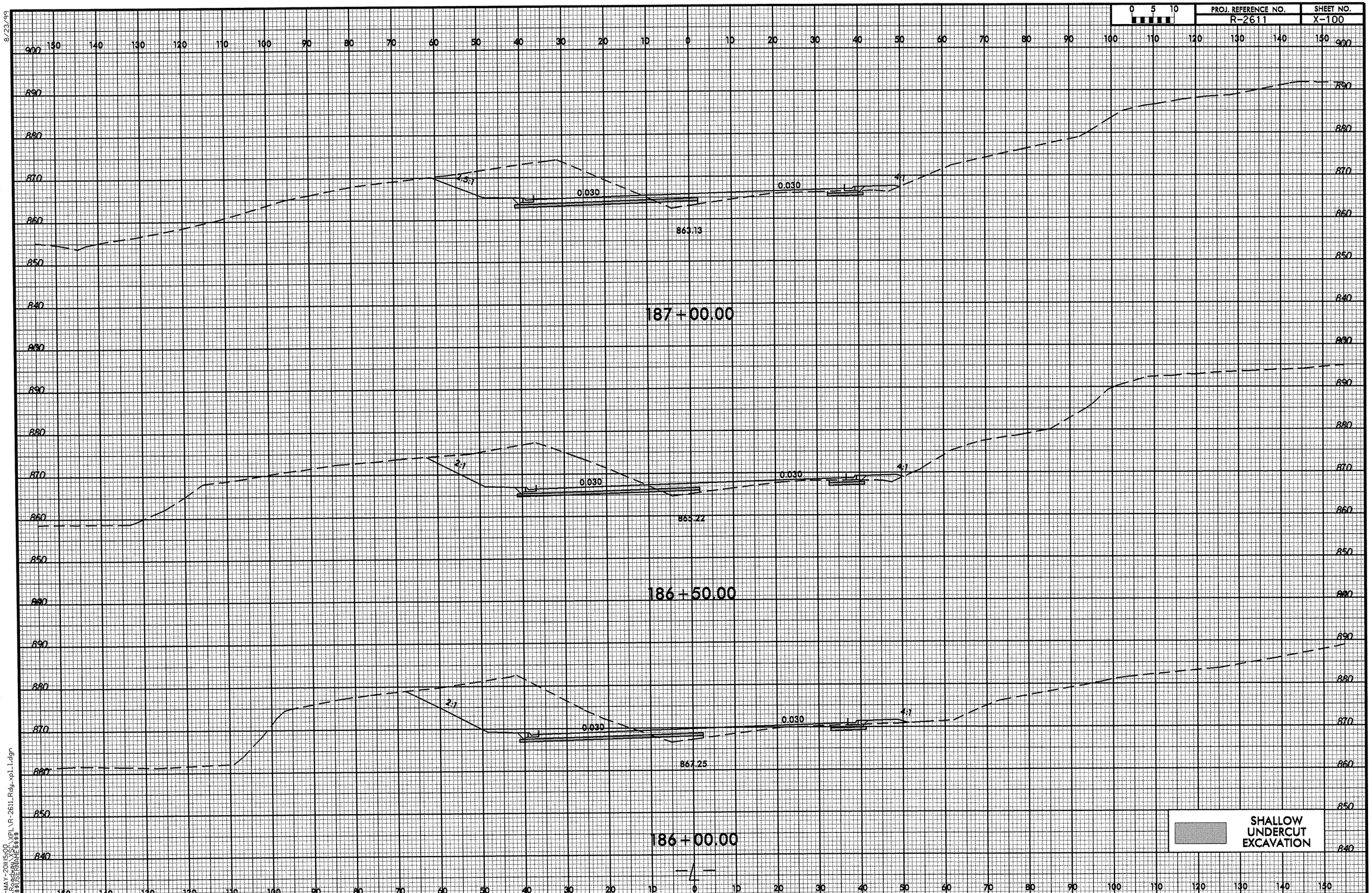


8/23/99

26-MAY-2011 15:00
R:\Roadway\XSC\XPL\R-2611_Rdy_xpl_1.dgn
$$$$USERNAME$$$$

8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-2611	X-100



26-MAY-2011 15:00
R:\ROADWAY\SCL\XPL\R-2611_Rdy_xpl_1.dgn
$$$$USERNAME$$$$

8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-2611	X-101

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

890
880
870
860
850
840
830

3.5:1
0.030
0.030
4:1
860.22

188+00.00

3.5:1
0.030
0.030
4:1
861.58

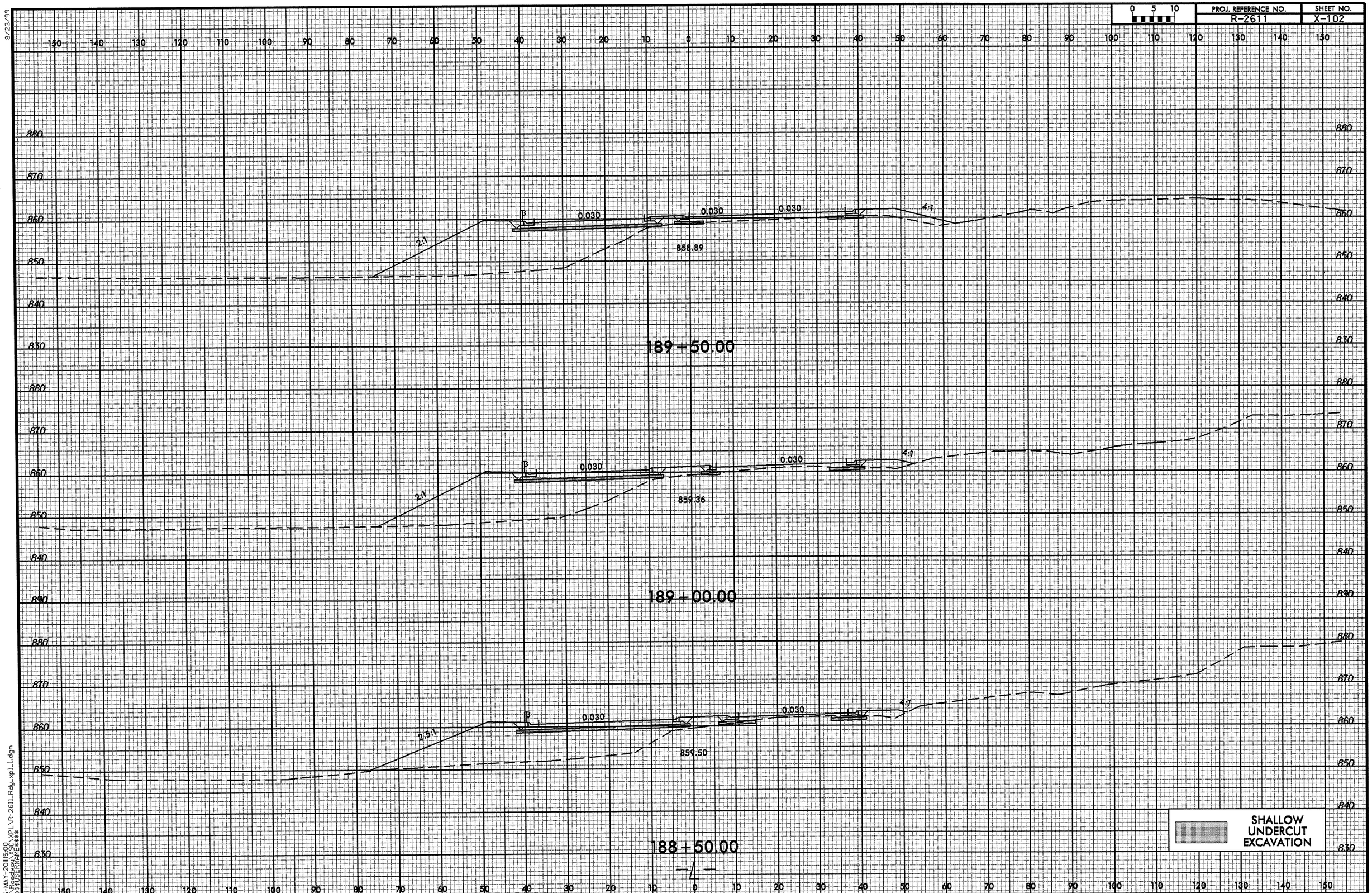
187+50.00

SHALLOW UNDERCUT EXCAVATION

26-MAY-2011 5:00
R:\Roadway\XSCL\XPL\R-2611_Rdy_xpl_1.dgn
$$$$USERNAME$$$$

8/23/99

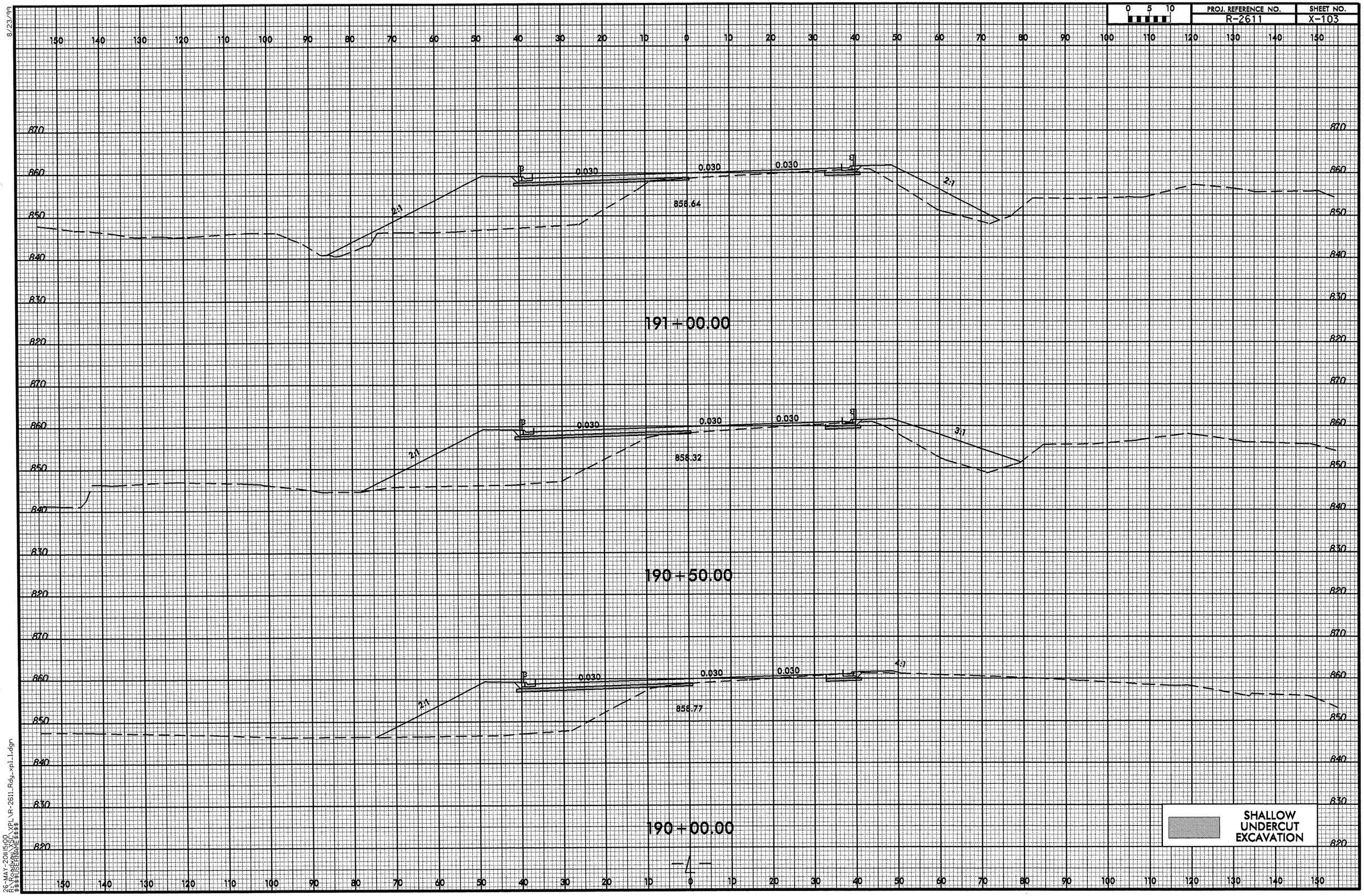
0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-2611	X-102



26-MAY-2011 15:00
R:\Roadway\XSC\XPL\R-2611Rdy_xpl1.dgn
$$$$USERNAME$$$$

8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-2611	X-103



26-MAY-2011 15:00
R:\Roadway\X_SC\XPL\R-2611_Rdy_xpl_1.dgn
$$$$USERNAME$$$$

8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-2611	X-104

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

880 870 860 850 840 830 820

Y12
SHEAR LINE

0.030 0.030 0.030 0.030 0.030

2:1

859.52

192+50.00

2.5:1

858.81

192+00.00

858.87

191+50.00

SHALLOW UNDERCUT EXCAVATION

26-MAY-2011 15:00
R:\Roadway\XSC\XPL\R-2611_Rdy_xpl_1.dgn
$$$$USERNAME$$$$

8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-2611	X-105

194+00.00

193+50.00

193+00.00

4:1 0.030 0.030 0.030 0.030 0.030 4:1

861.26

4:1 0.030 0.030 0.030 0.030 0.030 3:1

860.90

SLOPE LINE

0.030 0.030 0.030 0.030 0.030 2:1

860.58

SHALLOW UNDERCUT EXCAVATION

26-MAY-2011 5:00
R:\Roadway\XSEC\XPL\R-2611_Rdy_xpl_1.dgn
$$$$USERNAME$$$$

8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-2611	X-106

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

890 880 870 860 850 840

4:1 0.030 0.030 0.030 0.030 0.030 4:1

865.23

195+50.00

4:1 0.030 0.030 0.030 0.030 0.030 4:1

864.04

195+00.00

4:1 0.030 0.030 0.030 0.030 0.030 4:1

862.52

194+50.00

SHALLOW UNDERCUT EXCAVATION

26-MAY-2011 15:00
R:\Roadway\XSCLXPL\R-2611_Rdy_xpl_1.dgn
$$$$USERNAME$$$$

8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-2611	X-107

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

890 880 870 860 850 840

RAMP/ SHEAR LINE

0.030 0.030 0.030 0.030 0.030 0.030

SHEAR LINE

867.58

197+00.00

890 880 870 860 850 840

RAMP/ SHEAR LINE

0.030 0.030 0.030 0.030 0.030 0.030

4:1

867.06

196+50.00

890 880 870 860 850 840

RAMP/ SHEAR LINE

0.030 0.030 0.030 0.030 0.030

4:1

866.02

196+00.00

SHALLOW UNDERCUT EXCAVATION

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

26-MAY-2011 15:00
R:\Roadway\XSCL\XPL\R-2611_Rdy_xpl_1.dgn
$$$$USERNAME$$$$

8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-2611	X-108

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

900 890 880 870 860 850 840 890 880 870 860 850 840 890 880 870 860 850 840

4:1 0.030 0.030 0.030 0.030 0.030 0.030 4:1

868.72

198+50.00

4:1 0.030 0.030 0.030 0.030 0.030 0.030 0.030 PT3 SHEAR LINE

866.45

198+00.00

4:1 0.030 0.030 0.030 0.030 0.030 0.030 0.030 PT3 SHEAR LINE

867.94

197+50.00

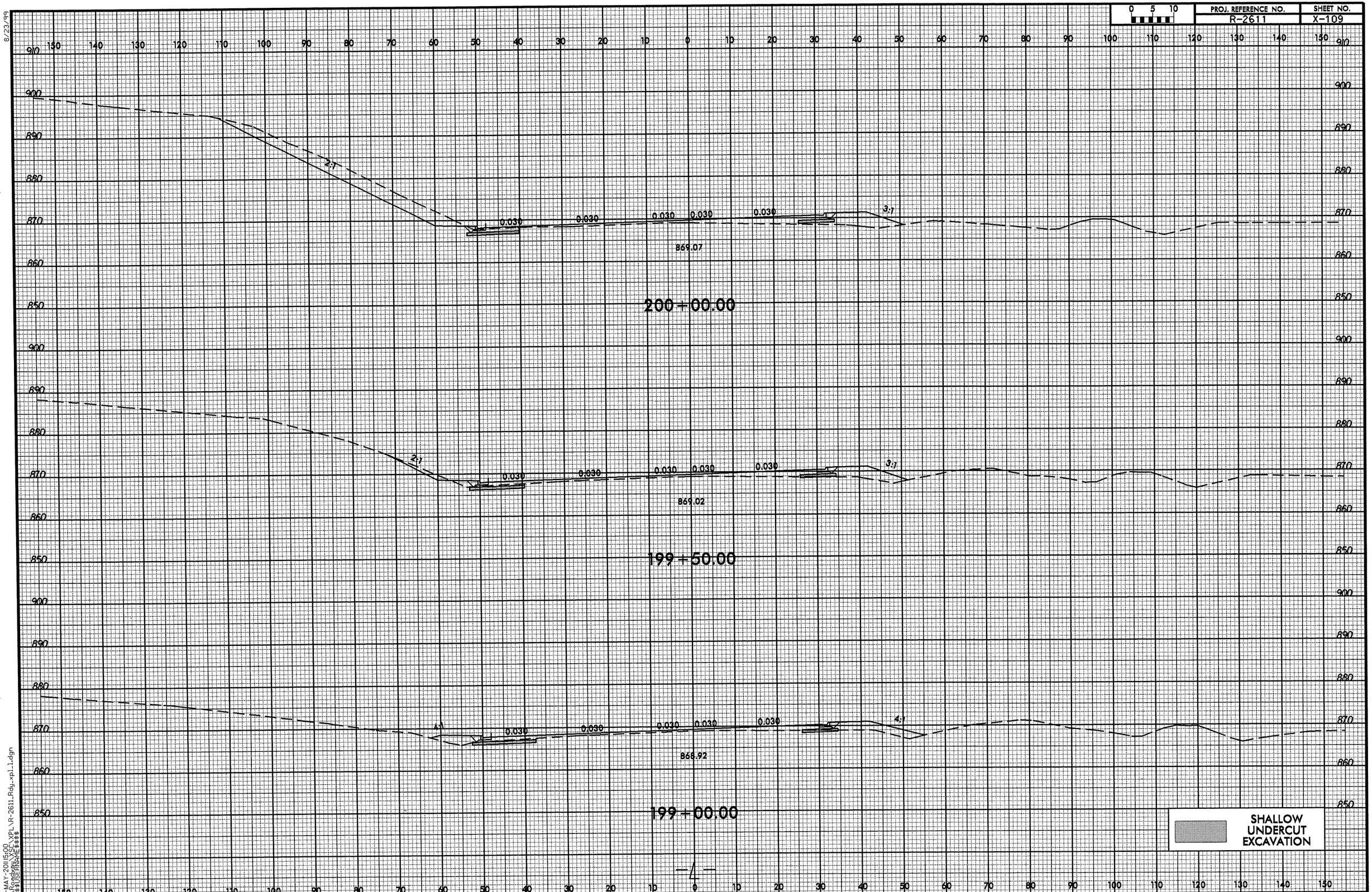
SHALLOW UNDERCUT EXCAVATION

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

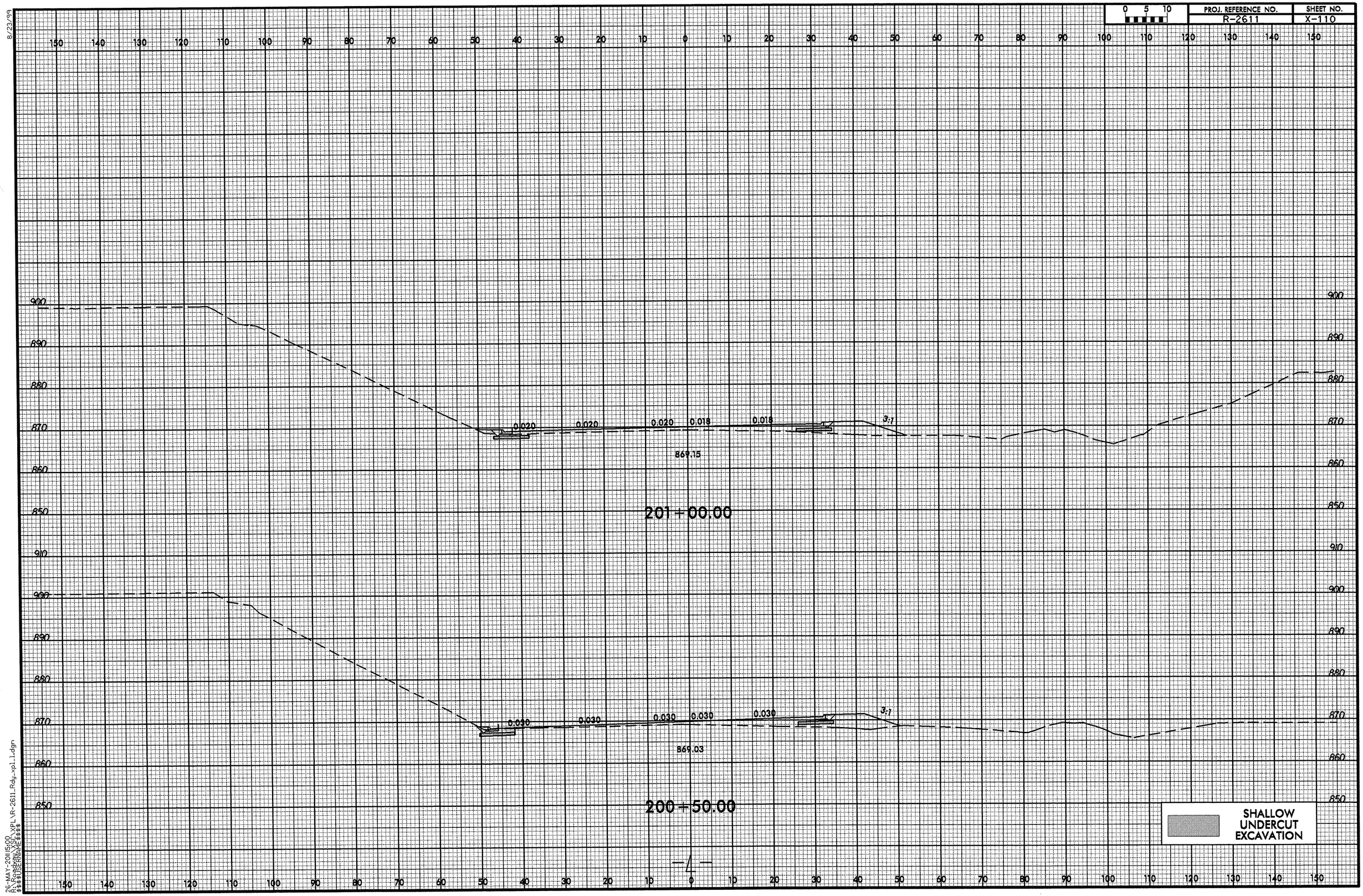
26-MAY-2011 15:00
R:\Roadway\XSC\XPL\R-2611Rdy_xpl1.dgn
$$$$USERNAME$$$$

8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-2611	X-109



26-MAY-2011 15:00
R:\Projects\XSCL\XPL\R-2611_Rdy_xpl_1.dgn
$$$$USERNAME$$$$



8/23/99

26-MAY-2011 15:00
R:\Roadway\XSC\XPL\R-2611_Rdy_xpl_1.dgn
$$$$USERNAME$$$$

8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-2611	X-111

202+50.00

869.55

202+00.00

869.41

201+50.00

869.28

4:1 0.020 0.020 0.020 0.020 3:1

4:1 0.020 0.020 0.010 0.010 3:1

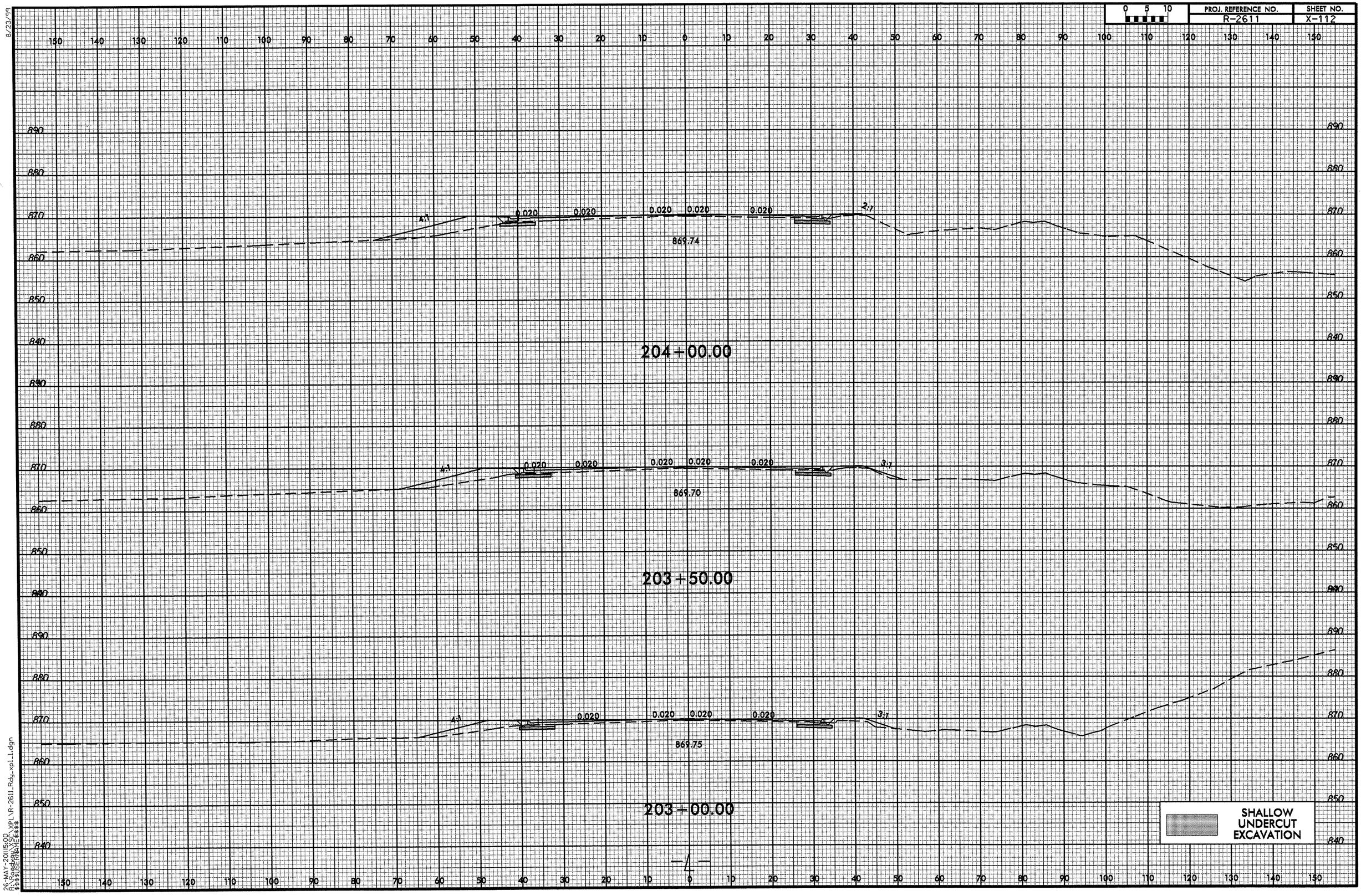
0.020 0.020 0.020 0.004 0.004 3:1

SHALLOW UNDERCUT EXCAVATION

26-MAY-2011 15:00
R:\Roadway\XSCs\XPLs\R-2611_Rdy_xpl_1.dgn
$$$$USERNAME$$$$

8/23/99

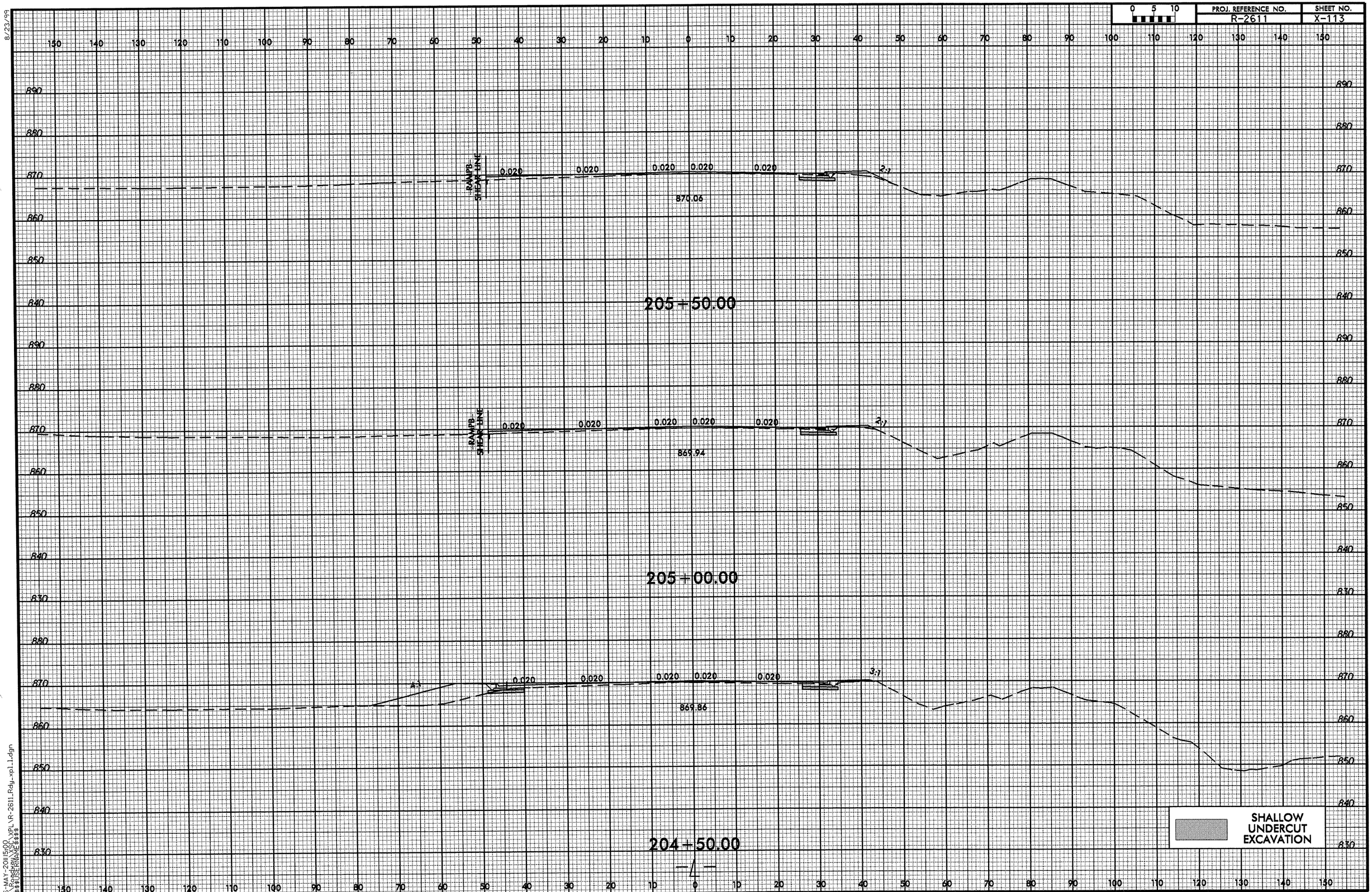
0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-2611	X-112



26-MAY-2011 15:00
R:\Roadway\XSC\XPL\R-2611_Rdy_xpl_1.dgn
$$$$USERNAME$$$$

8/23/99

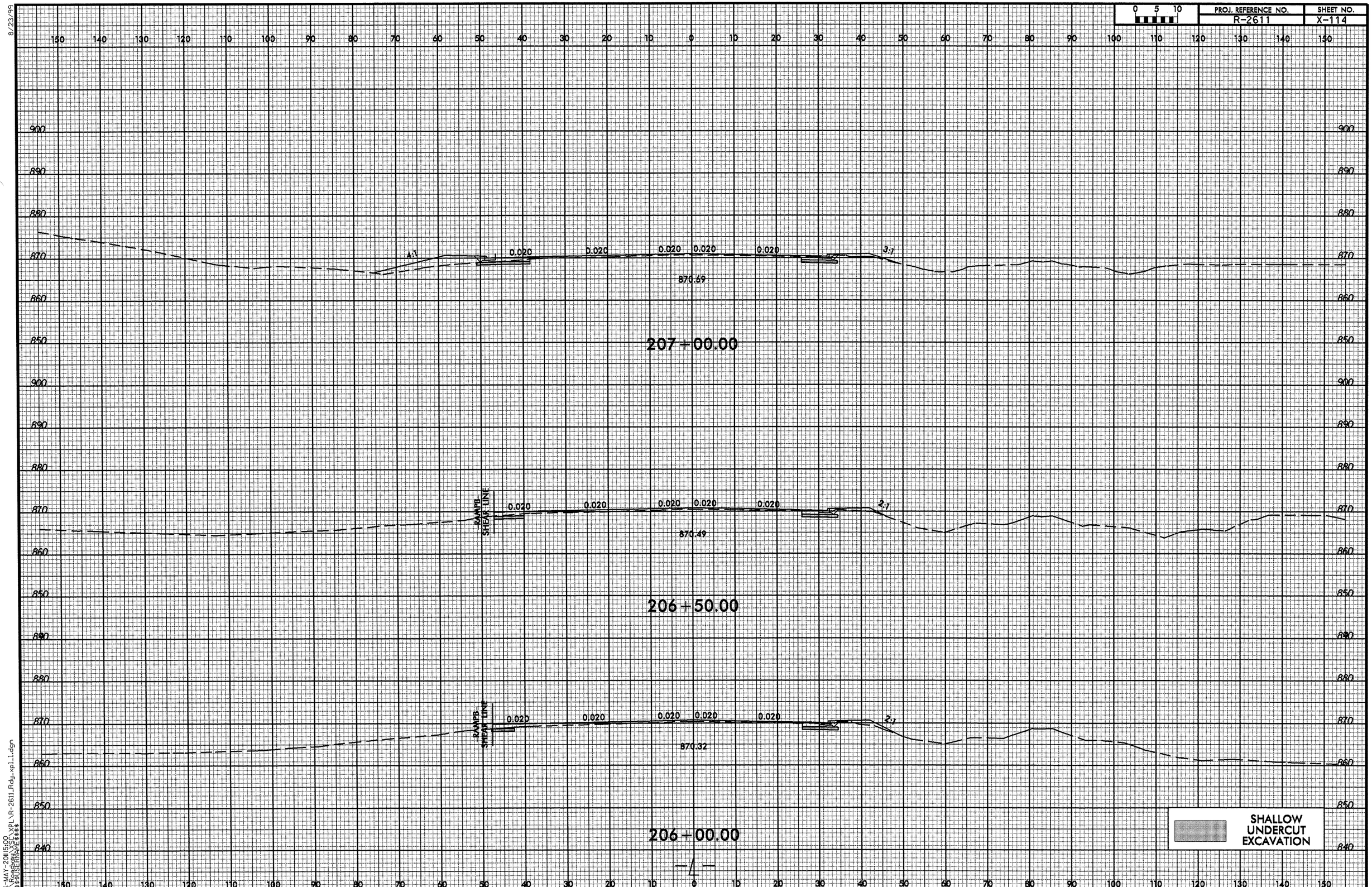
0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-2611	X-113



26-MAY-2011 15:00
R:\Roadway\XSC\XPL\R-2611_Rdy_xpl_1.dgn
$$$$USERNAME$$$$

8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-2611	X-114



26-MAY-2011 15:00
R:\Roadway\XSC\XPL\R-2611_Rdy_xpl_1.dgn
$$$$USERNAME$$$$

8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-2611	X-115

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

900 890 880 870 860 850

4:1 0.020 0.020 0.020 0.020 0.020 4:1

871.10

208+50.00

900 890 880 870 860 850

4:1 0.020 0.020 0.020 0.020 0.020 4:1

870.95

208+00.00

880 870 860 850

4:1 0.020 0.020 0.020 0.020 0.020 4:1

870.88

207+50.00

SHALLOW UNDERCUT EXCAVATION

-4-

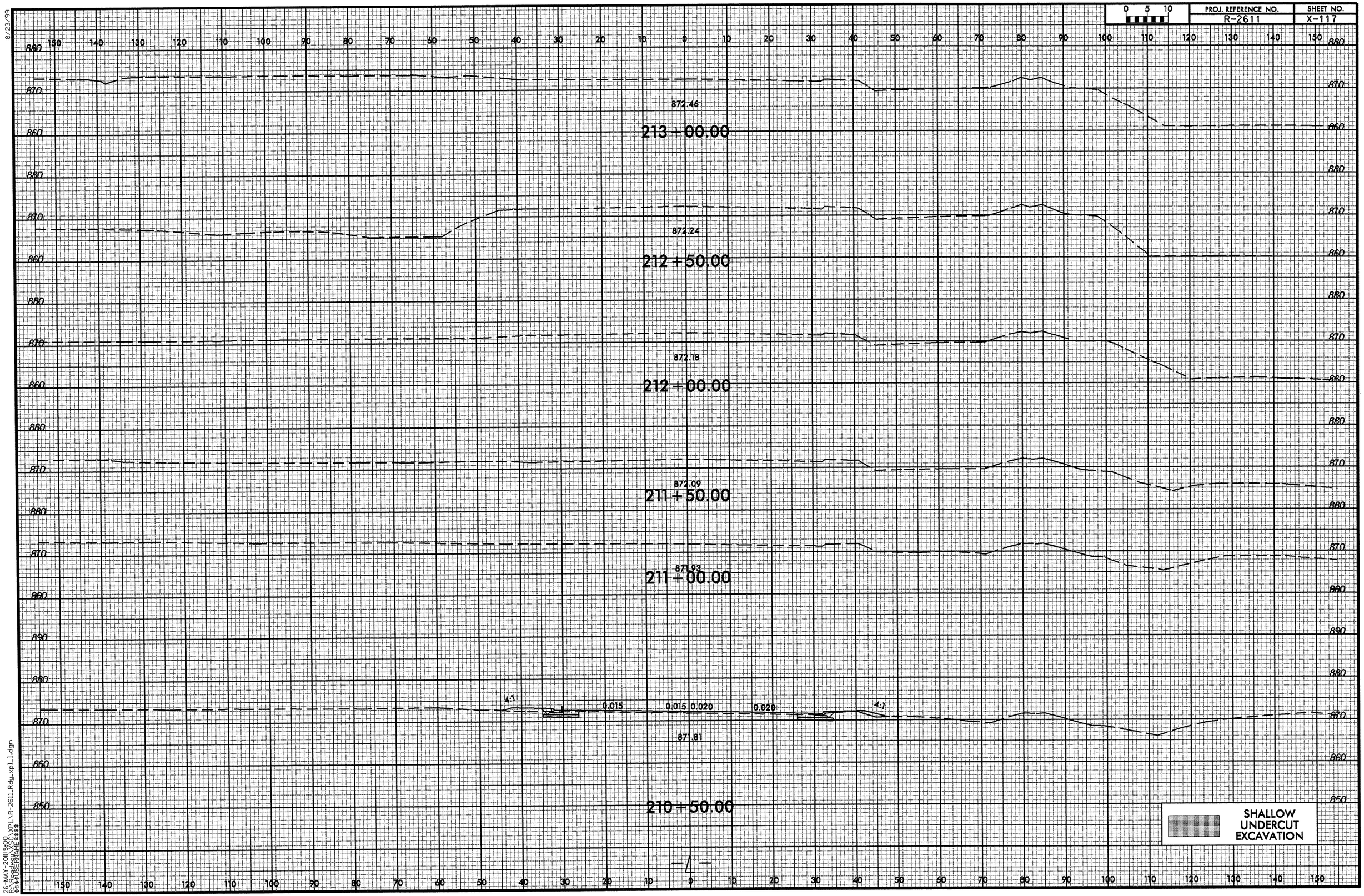
150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

26-MAY-2011 15:00
R:\Roadway\XSC\XPL\R-2611_Rdy_xpl_1.dgn
$$$$USERNAME$$$$

PROJ. REFERENCE NO.	SHEET NO.
R-2611	X-116

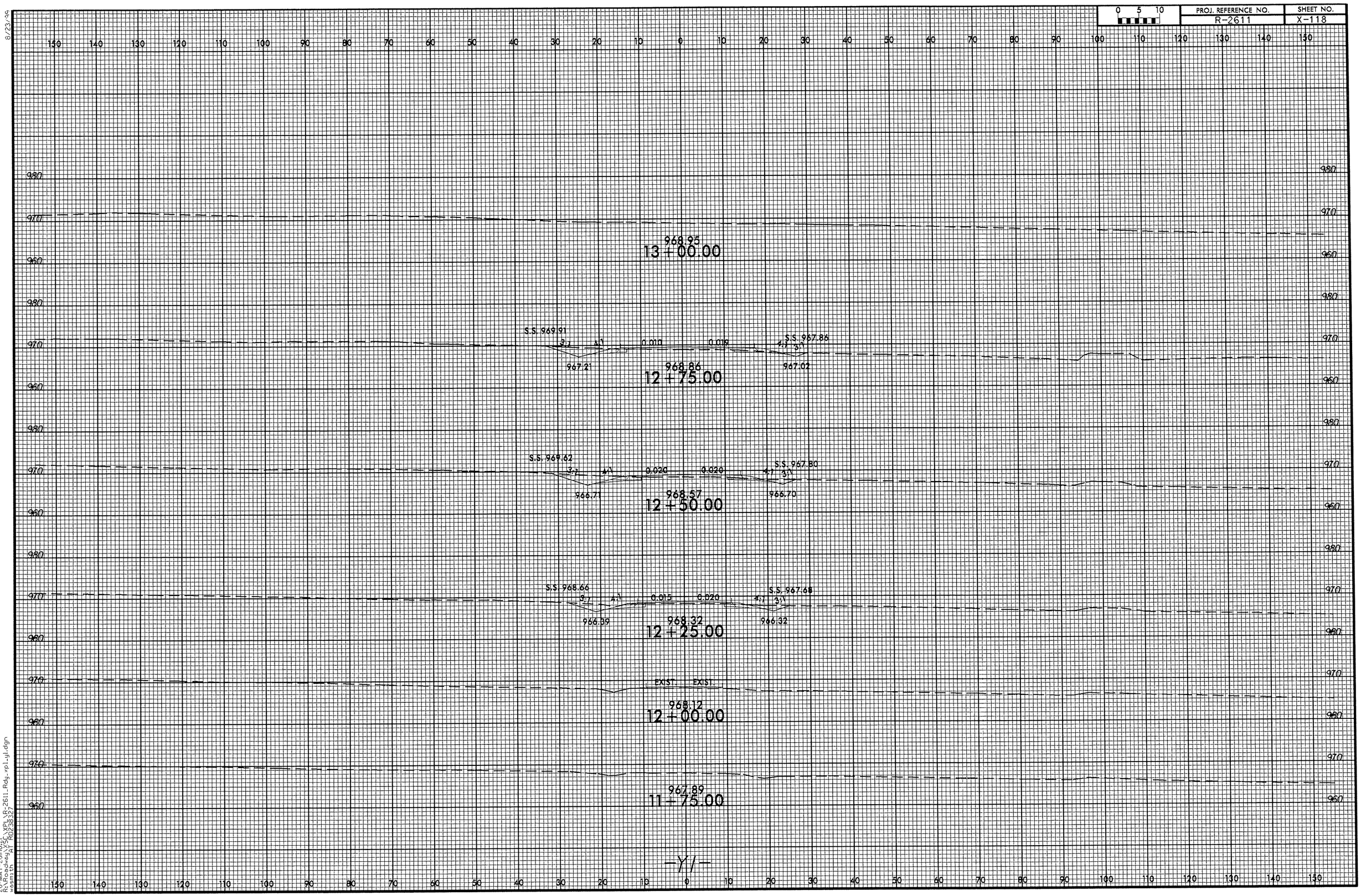
8/23/99

26-MAY-2011 15:00
R:\Roadway\XSC\XPL\R-2611_Rdy_xpl_1.dgn
$$$$USERNAME$$$$



8/23/99

26-MAY-2011 15:00
R:\Roadway\XSC\XPL\R-2611_Rdy_xpl_1.dgn
$$$$USERNAME$$$$



8/23/99

26-MAY-2011 16:21
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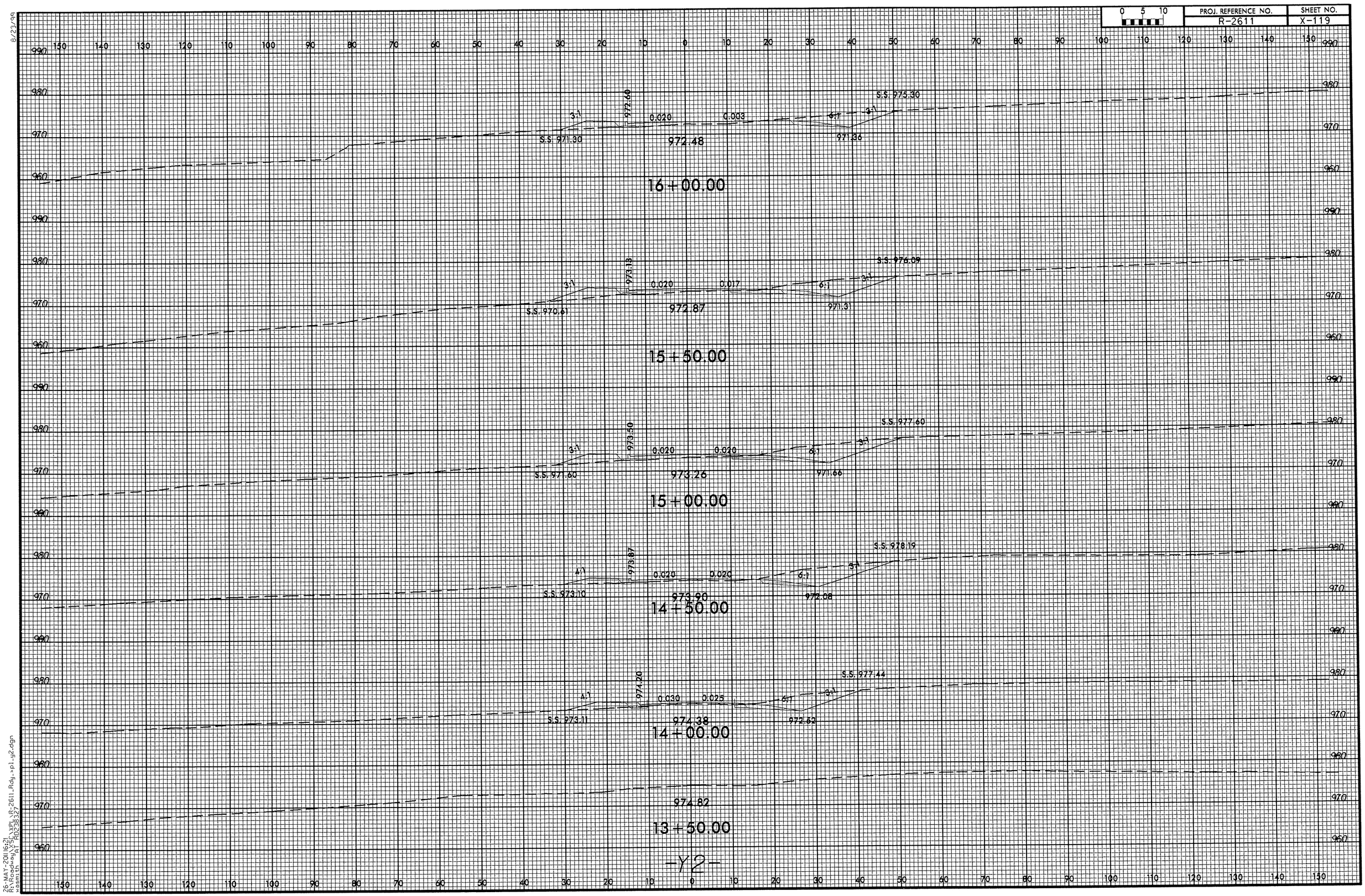
wasmith AT RD238327



8/23/99

26-MAY-2011 16:21
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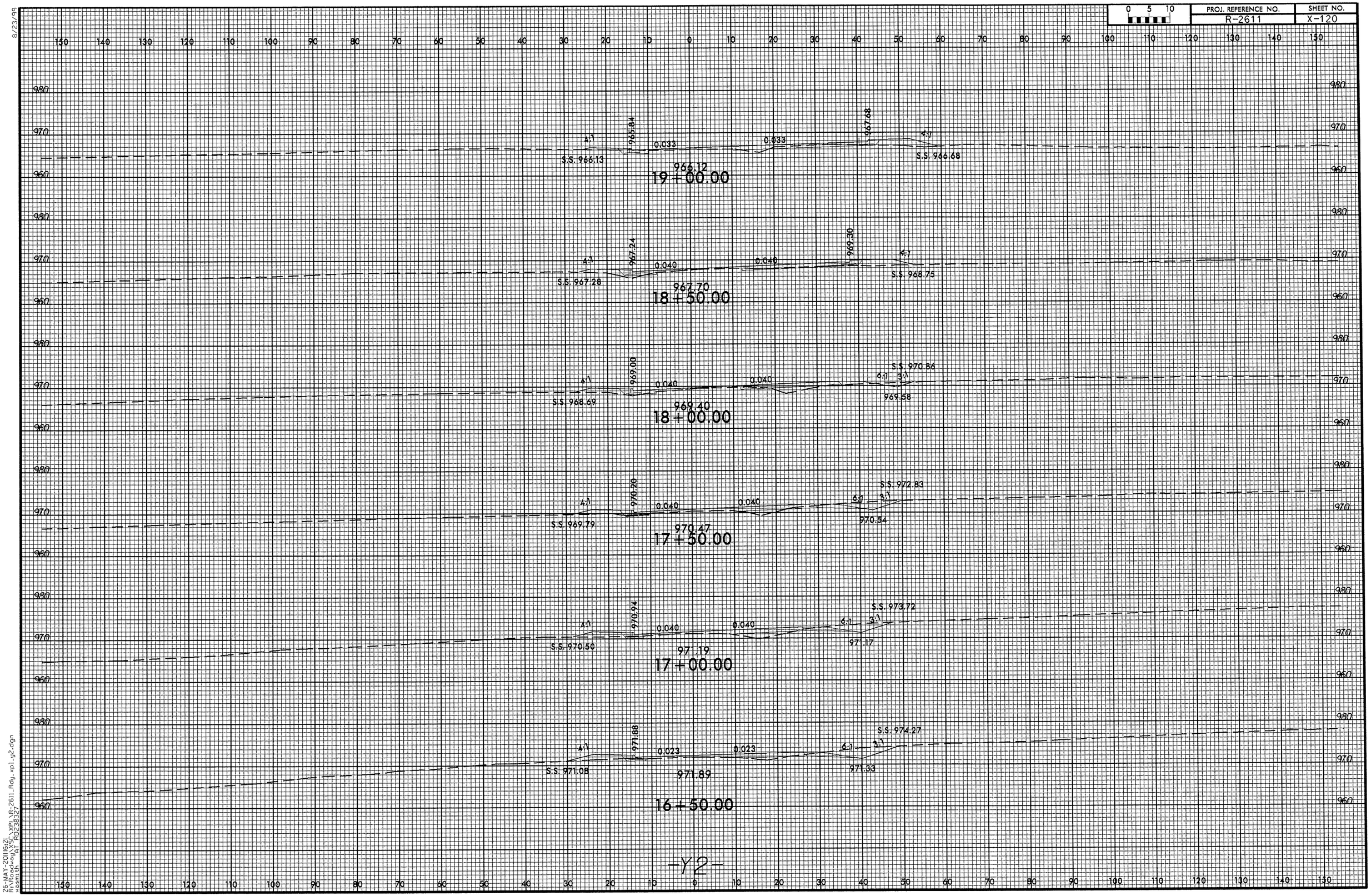
wasmith AT R0238327



8/23/99

26-MAY-2011 16:21
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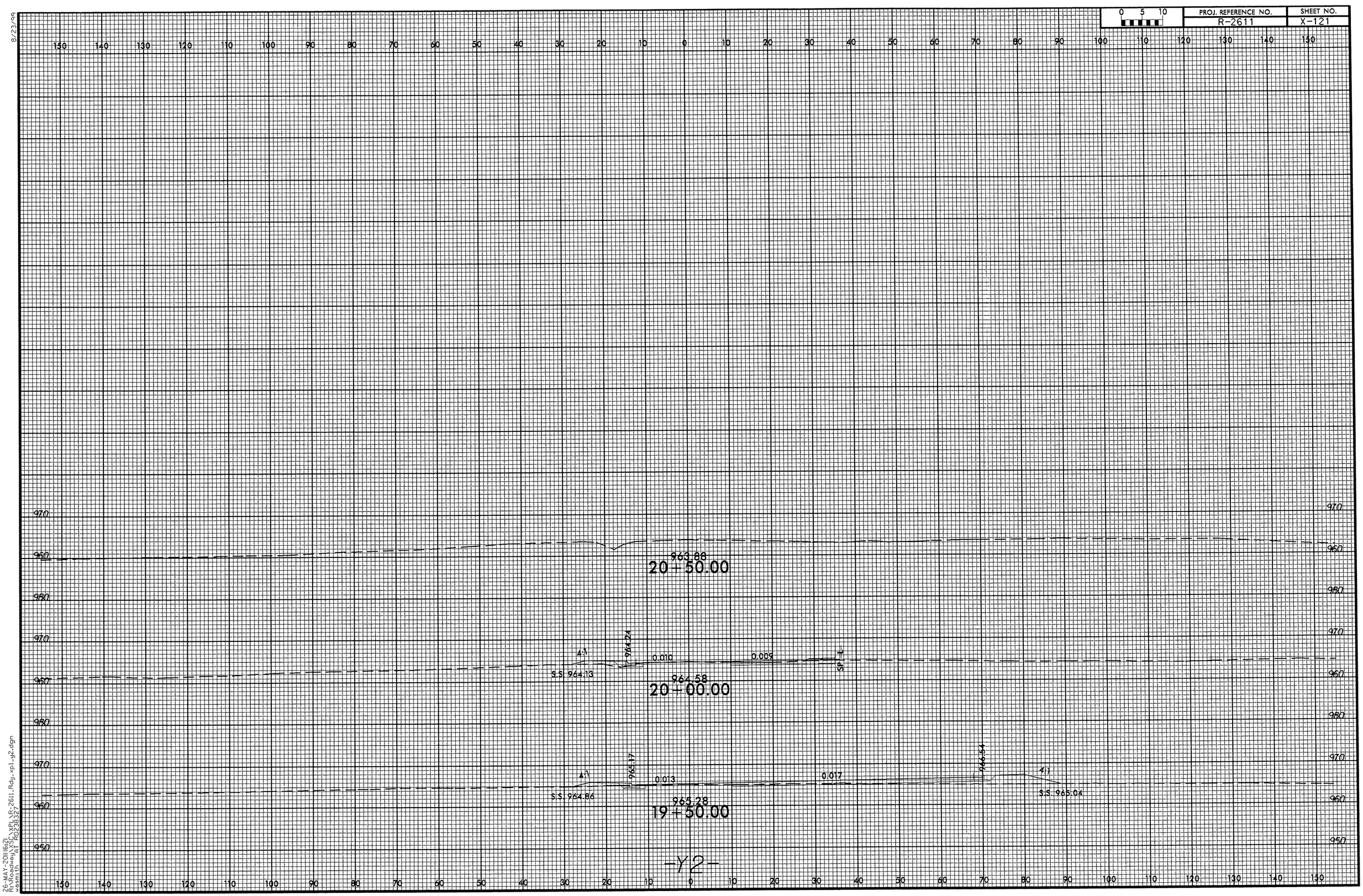
wasmith AT R0238327



0 5 10
PROJ. REFERENCE NO.
R-2611
SHEET NO.
X-121
8/23/99
963.88
20+50.00
964.24
4:1
0.010
0.009
SP
S.S. 964.13
964.58
20+00.00
965.17
4:1
0.013
0.017
966.54
4:1
S.S. 964.86
S.S. 965.04
965.28
19+50.00
-Y2-
26-MAY-2011 16:21
R:\Roadway\XSC\XPL\R-2611_Rdy_xpl_y2.dgn
wasmith AT R0238327

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-2611	X-122

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

980 970 960 950

S.S. 965.60 | 4:1 | 0.020 | 0.020 | S.S. 964.26 | 4:1 | 4:1
963.07 | 965.85 | 963.47
13+00.00

4:1 | 963.96 | 0.020 | 0.020 | S.S. 963.32 | 4:1 | 4:1
S.S. 963.81 | 964.56 | 962.76
12+50.00

4:1 | 962.87 | 0.018 | 963.34 | 0.020 | 4:1
S.S. 962.09 | 963.45 | S.S. 962.69
12+00.00

SF | 0.013 | 962.36 | 0.020 | 4:1
962.41 | S.S. 962.83
11+50.00

SF | 0.008 | 961.81 | 0.018 | 4:0
96.19 | S.S. 961.43
11+00.00

962.04
10+50.00

-Y3-

8/23/99

26-MAY-2011 16:21
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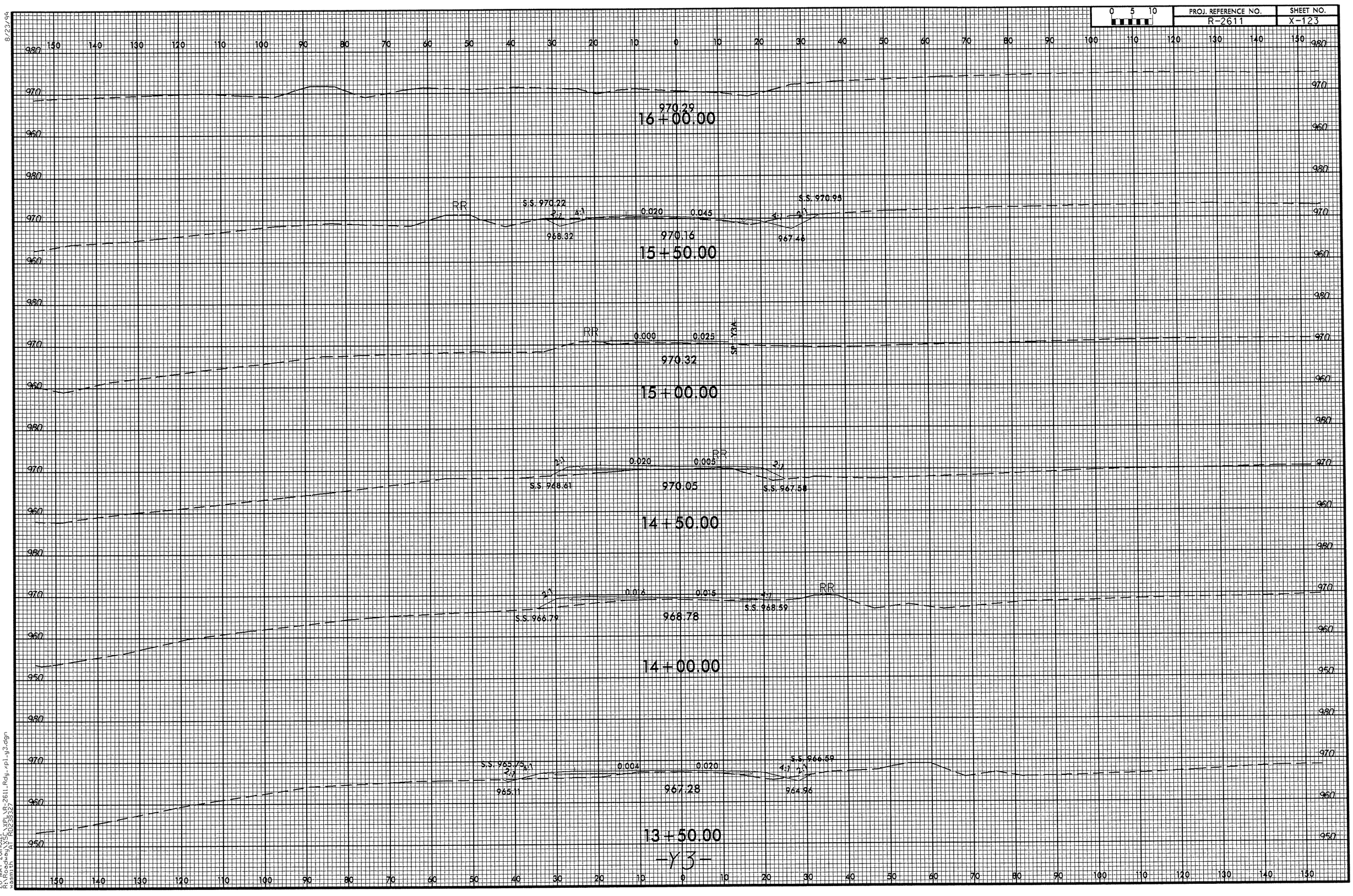
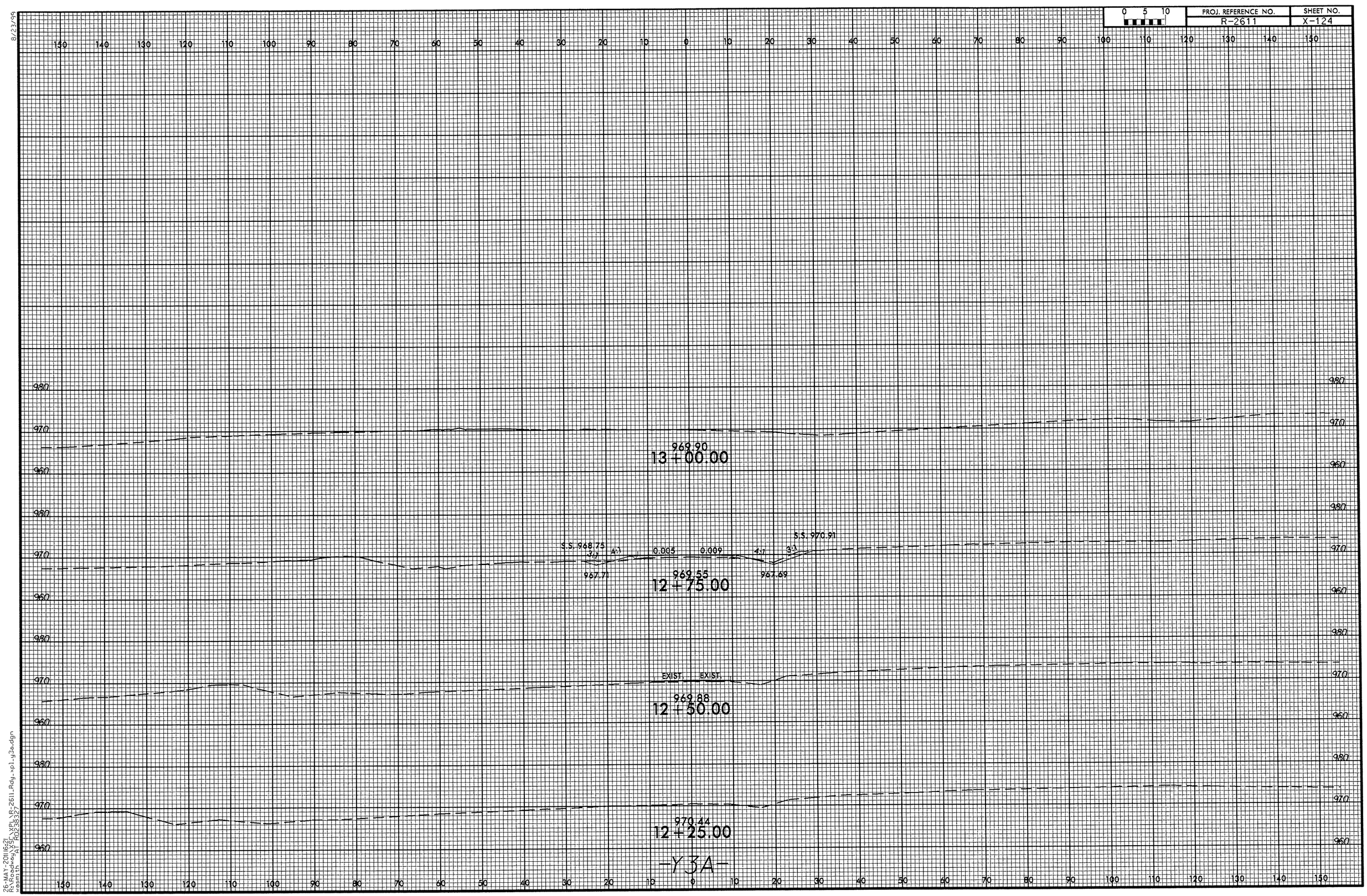
wsmith
AT R0238327



0 5 10
PROJ. REFERENCE NO.
R-2611
SHEET NO.
X-123
970.29
16+00.00
RR
S.S. 970.22
2:1
4:1
0.020
0.045
S.S. 970.95
968.32
970.16
967.46
15+50.00
RR
0.000
0.025
SP-Y3A
970.32
15+00.00
2:1
0.020
0.005
RR
2:1
S.S. 968.61
970.05
S.S. 967.58
14+50.00
2:1
0.016
0.015
4:1
RR
S.S. 966.79
968.78
S.S. 968.59
14+00.00
S.S. 965.75
2:1
4:1
0.004
0.020
S.S. 966.59
4:1
2:1
965.11
967.28
964.96
13+50.00
-Y3-



8/23/99

26-MAY-2011 16:21
R:\Roadway\XSC\XPL\R-2611_Rdy_xpl_y3a.dgn
wasmith AT R0238327

8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-2611	X-125

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

980 970 960 950

S.S. 969.49 — 3:1 — A:1 — 0.020 — 0.020 — 3:1 — S.S. 967.09

966.55 — 967.78 — 966.93

14+00.00

S.S. 969.15 — 3:1 — A:1 — 0.020 — 0.020 — 3:1 — S.S. 966.41

965.30 — 967.57 — 965.79

13+75.00

S.S. 968.74 — 3:1 — A:1 — 0.020 — 0.020 — 3:1 — S.S. 965.40

965.29 — 967.33 — 965.27

13+50.00

EXIST. — EXIST.

967.07

13+25.00

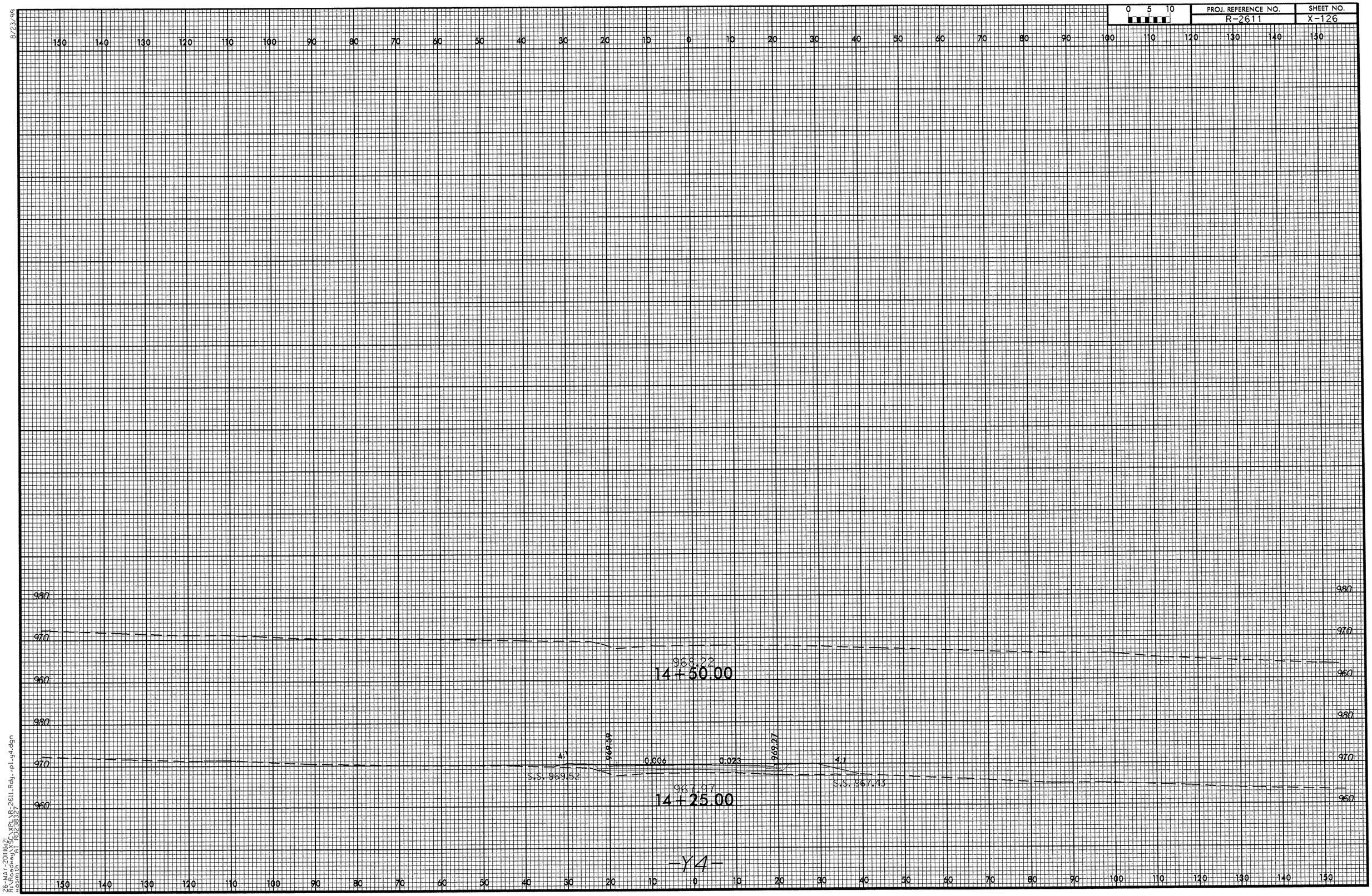
966.85

13+00.00

-Y4-

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

26-MAY-2011 16:21
R:\Roadway\XSL\XPL\R-2611_Rdy_xpl_y4.dgn
wasmith
AT R0238327

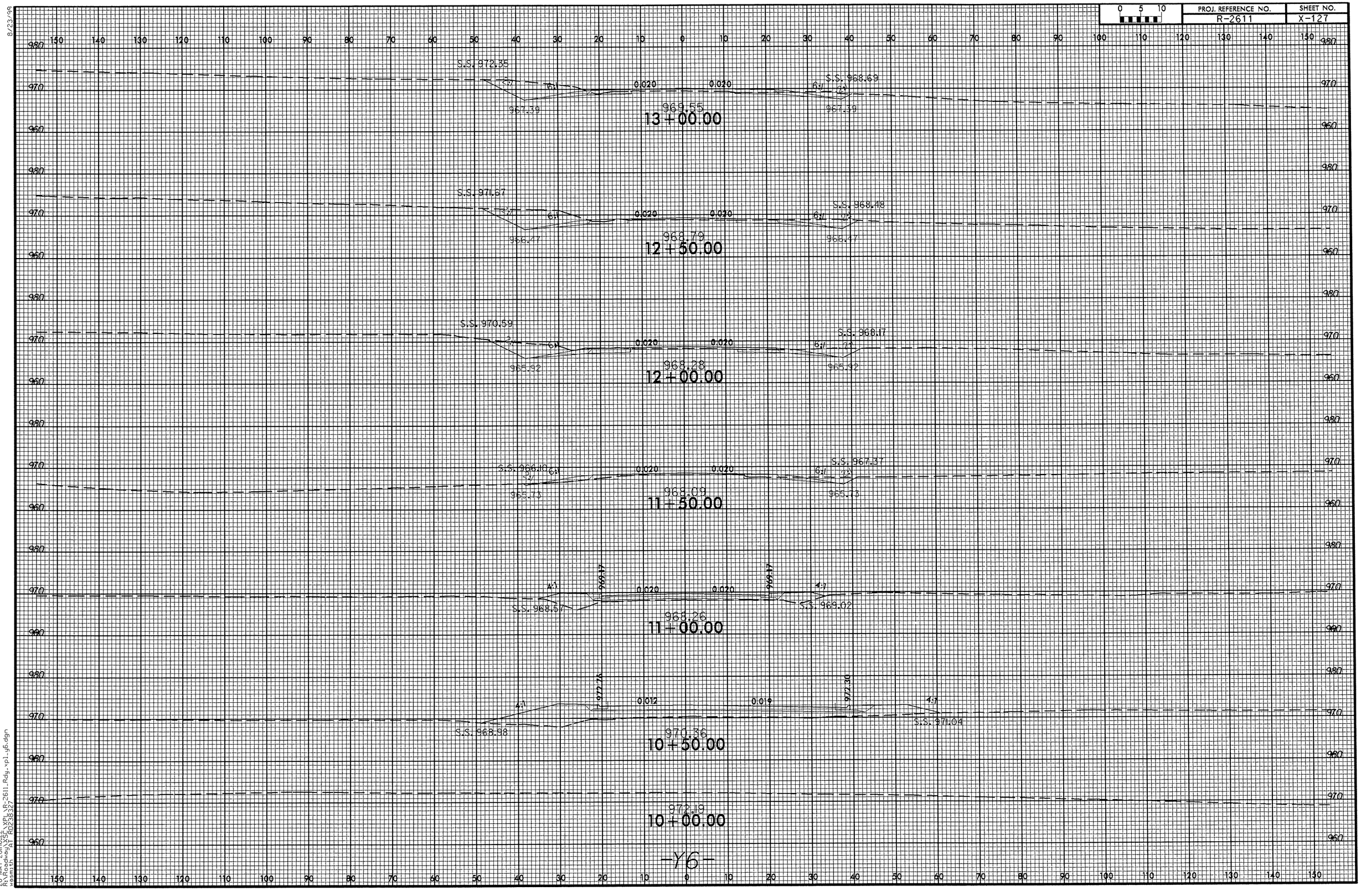


8/23/99

26-MAY-2011 16:21
R:\Roadway\XSC\XPL\R-2611_Rdy_xpl_y4.dgn
wasmith AT RD238327

8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-2611	X-127



26-MAY-2011 16:22
R:\Roadway\X56\XPL\R-2611_Rdy_xpl_y6.dgn
wasmith
AT R0238327

8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-2611	X-128

16 + 00.00

S.S. 974.70 — 2% — 6:1 — 0.020 — 0.020 — 6:1 — 2% — S.S. 972.52

971.38 — 973.60 — 971.58

15 + 50.00

S.S. 974.95 — 2% — 6:1 — 0.020 — 0.020 — 6:1 — 2% — S.S. 972.42

971.60 — 973.70 — 971.59

15 + 00.00

S.S. 975.19 — 2% — 6:1 — 0.020 — 0.020 — 6:1 — 2% — S.S. 971.86

971.40 — 975.46 — 971.40

14 + 50.00

S.S. 976.42 — 2% — 6:1 — 0.020 — 0.020 — 6:1 — 2% — S.S. 971.42

970.75 — 972.86 — 970.75

14 + 00.00

S.S. 974.79 — 2% — 6:1 — 0.020 — 0.020 — 6:1 — 2% — S.S. 970.39

969.68 — 971.83 — 969.68

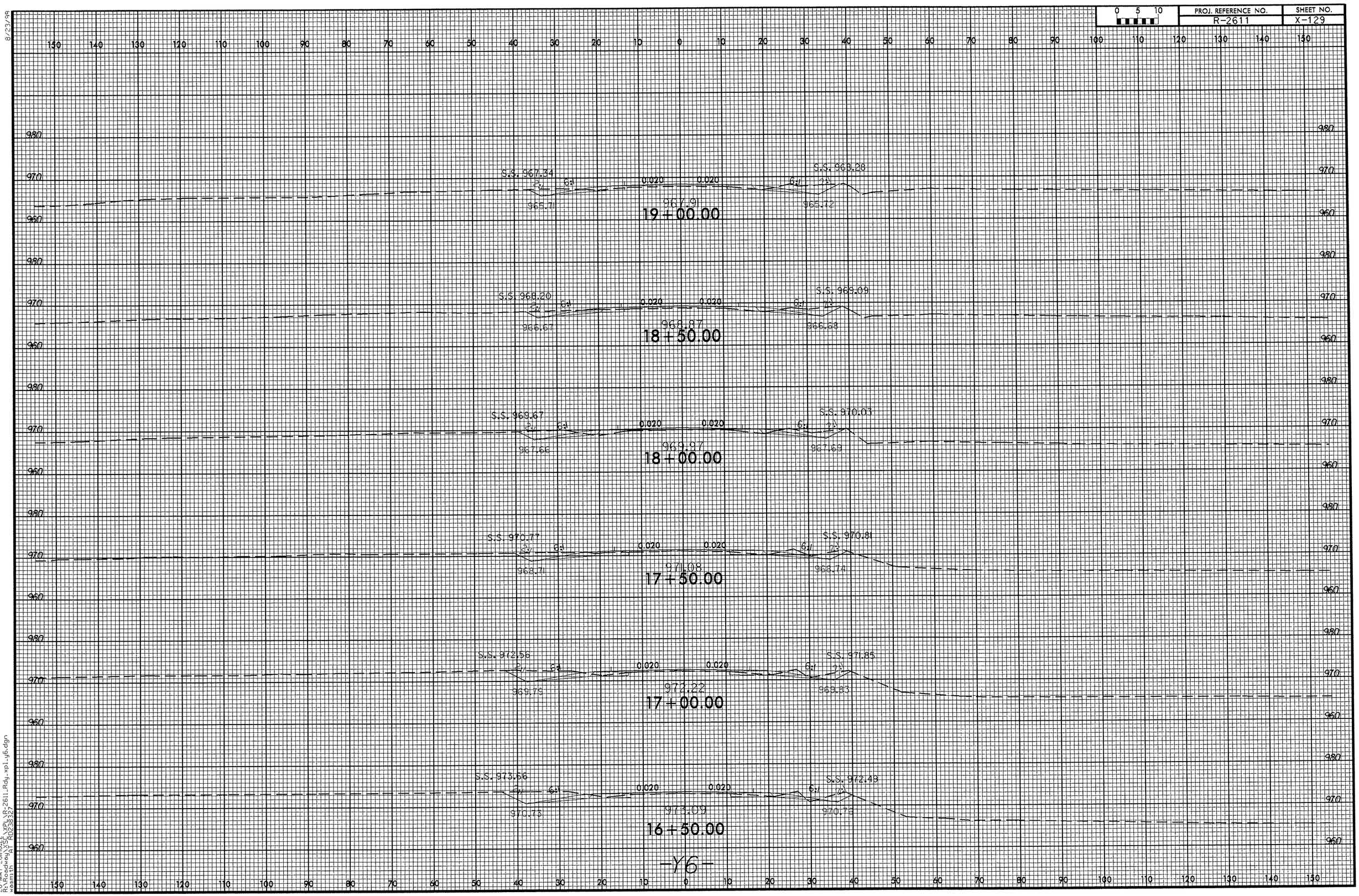
13 + 50.00

S.S. 973.44 — 2% — 6:1 — 0.020 — 0.020 — 6:1 — 2% — S.S. 968.66

968.54 — 970.62 — 968.54

-Y6-

26-MAY-2011 16:22
R:\Roadway\25C_XPL\R-2611_Rdy_xpl_y6.dgn
wsmith
AT R0238327



8/23/99

26-MAY-2011 16:22
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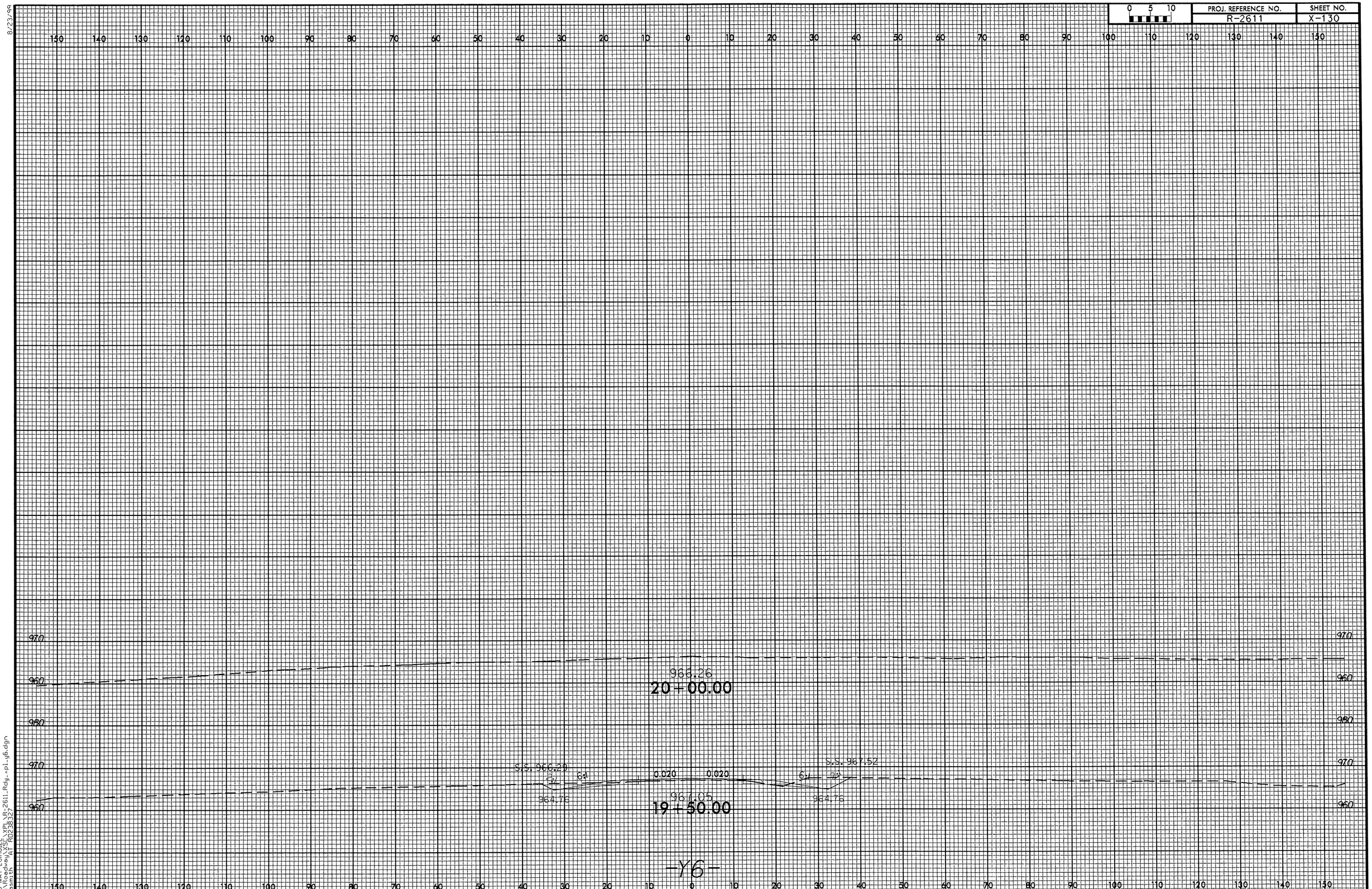
wesmith AT RD238327

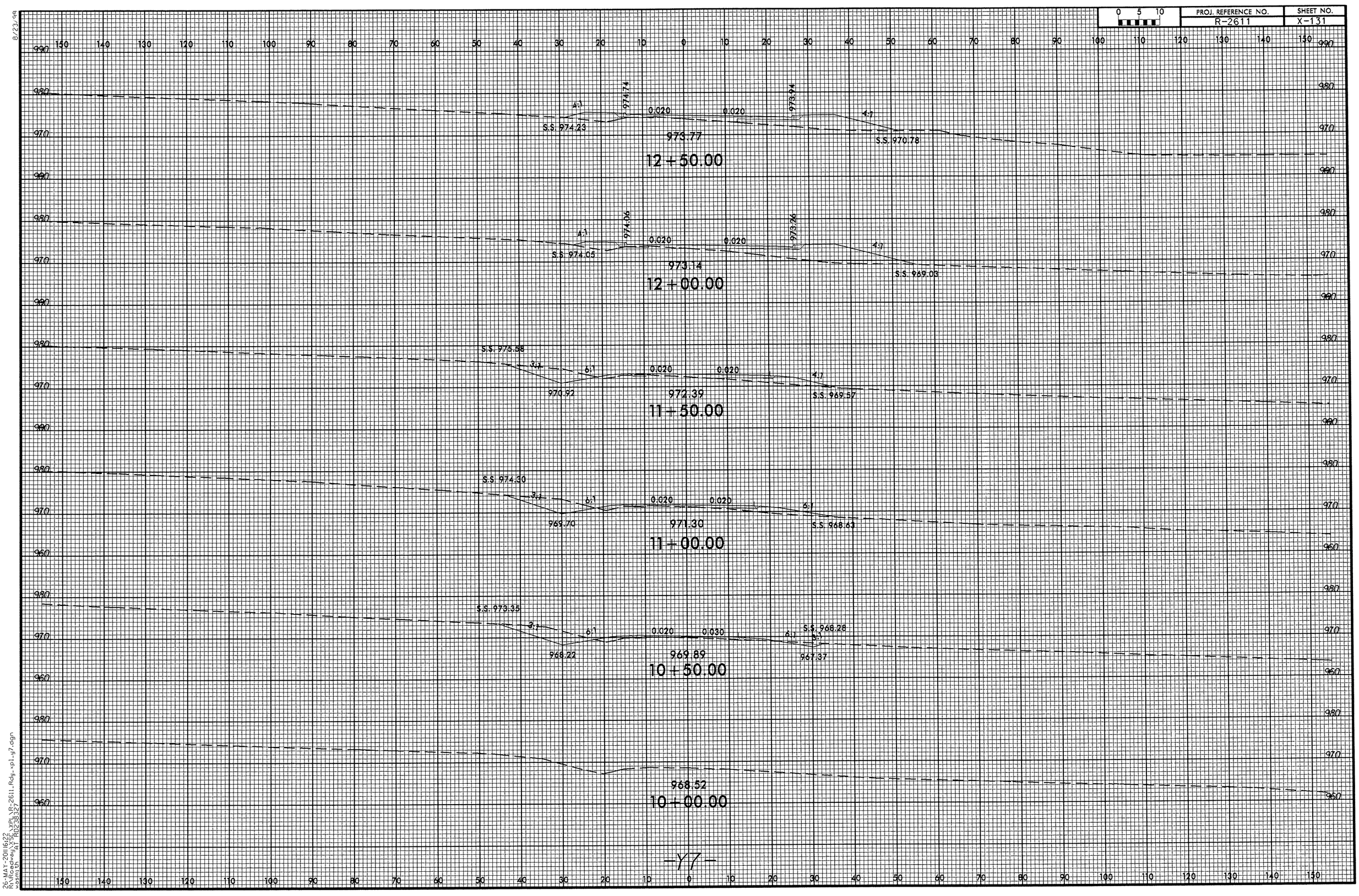


8/23/99

26-MAY-2011 16:22
R:\Roadway\XSC\XPL\R-2611_Rdy_xpl_y6.dgn
wasmith AT R0238327

8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-2611	X-131



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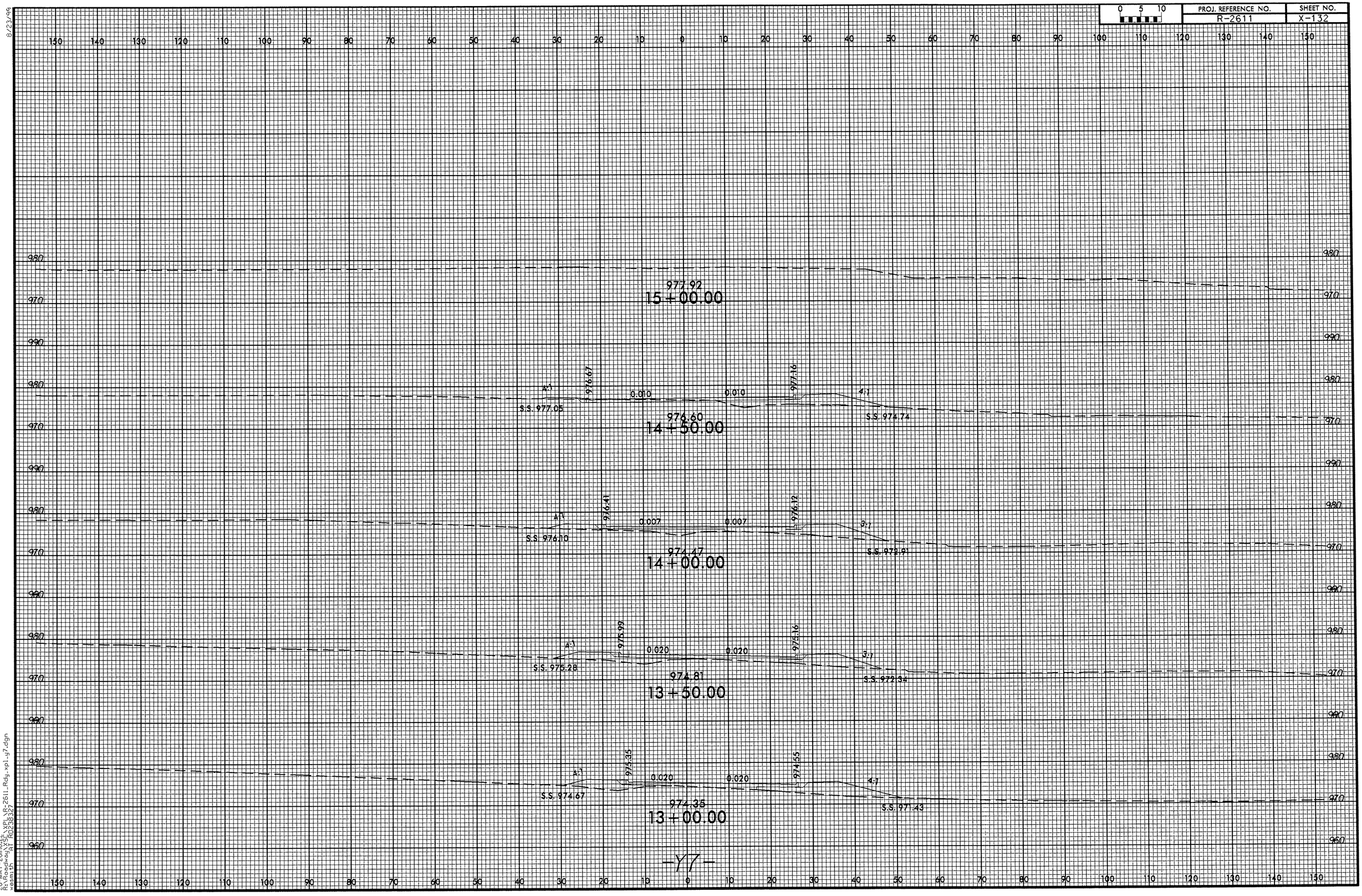
AT R0238327



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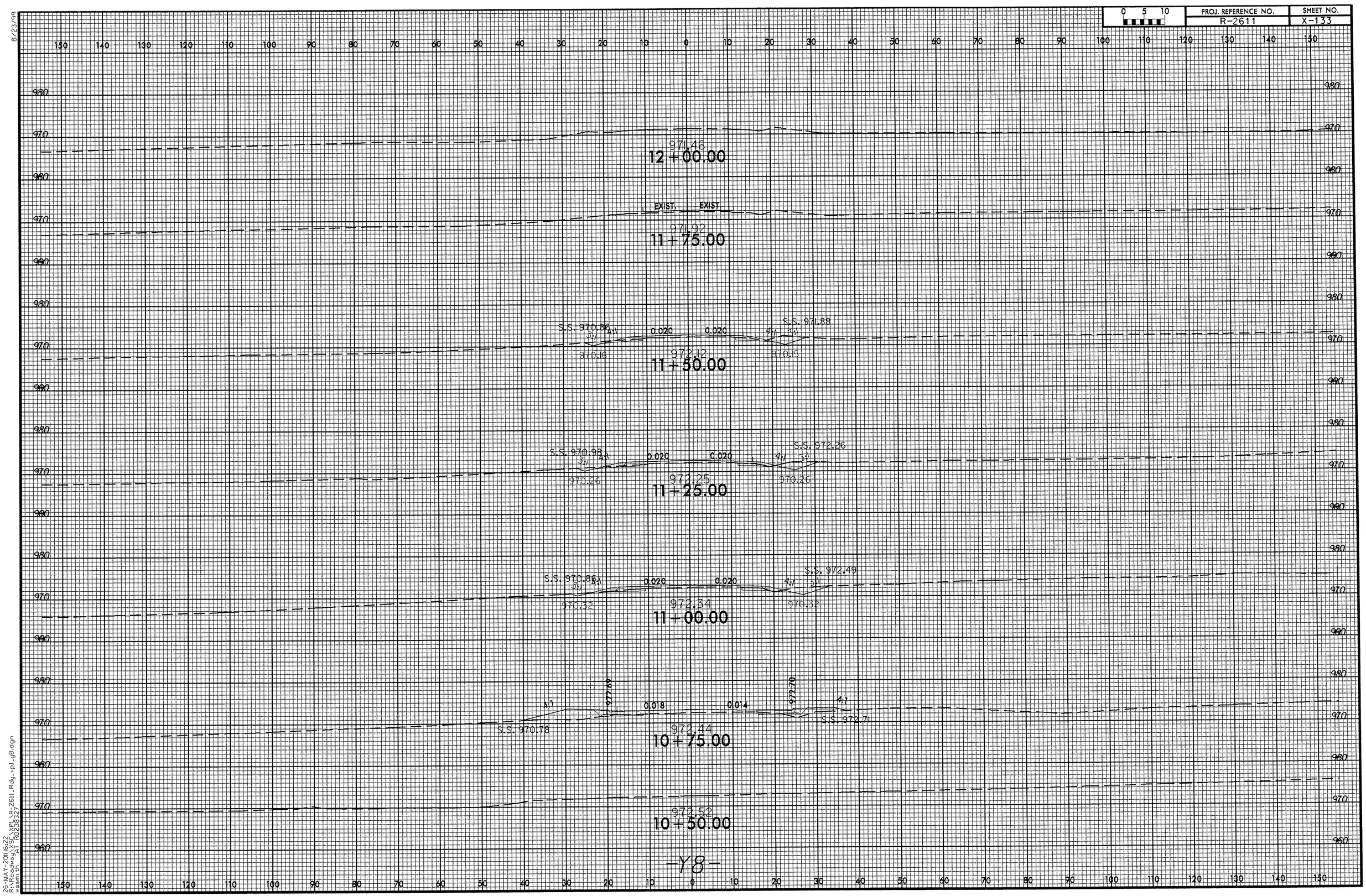

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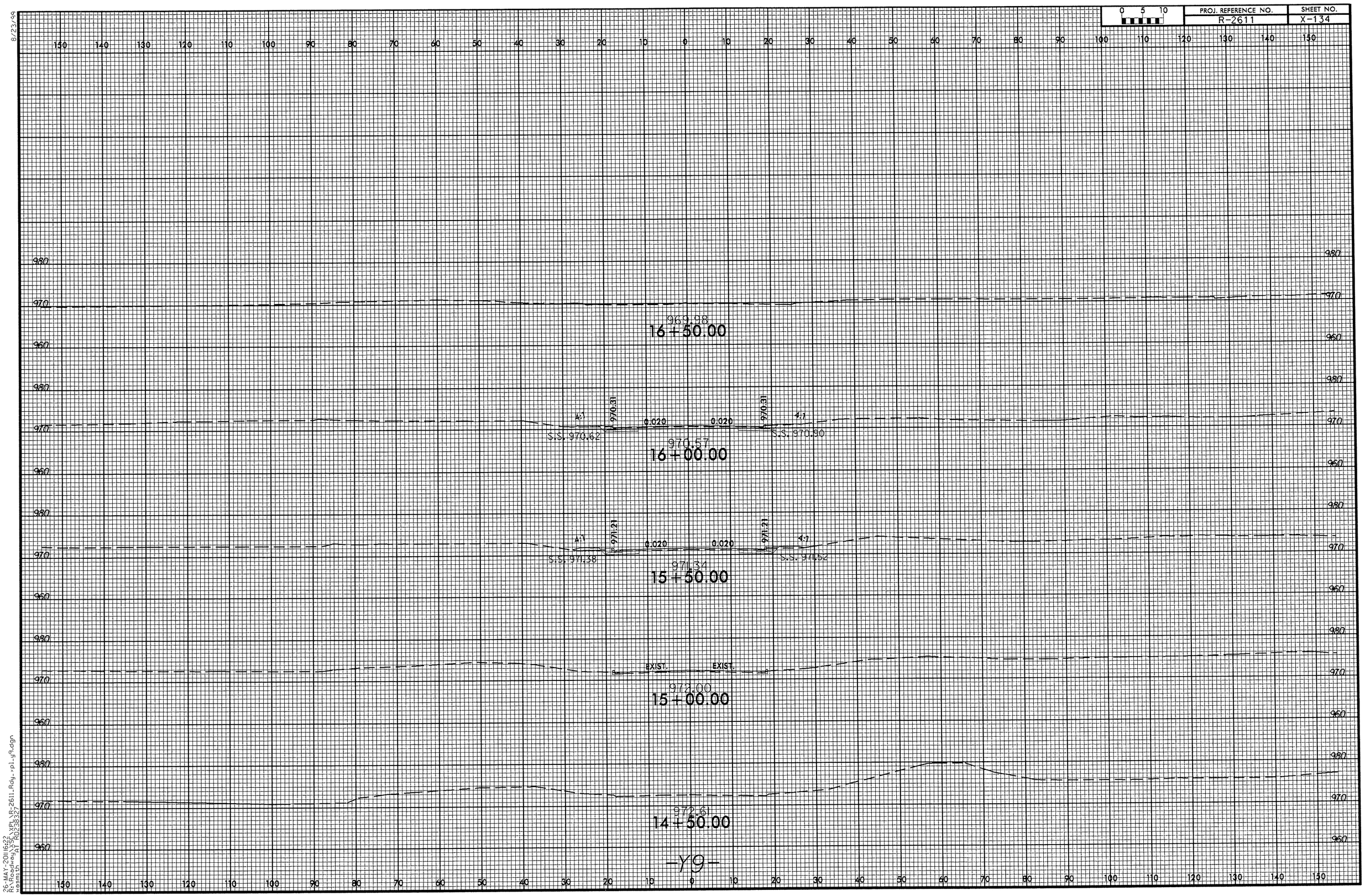

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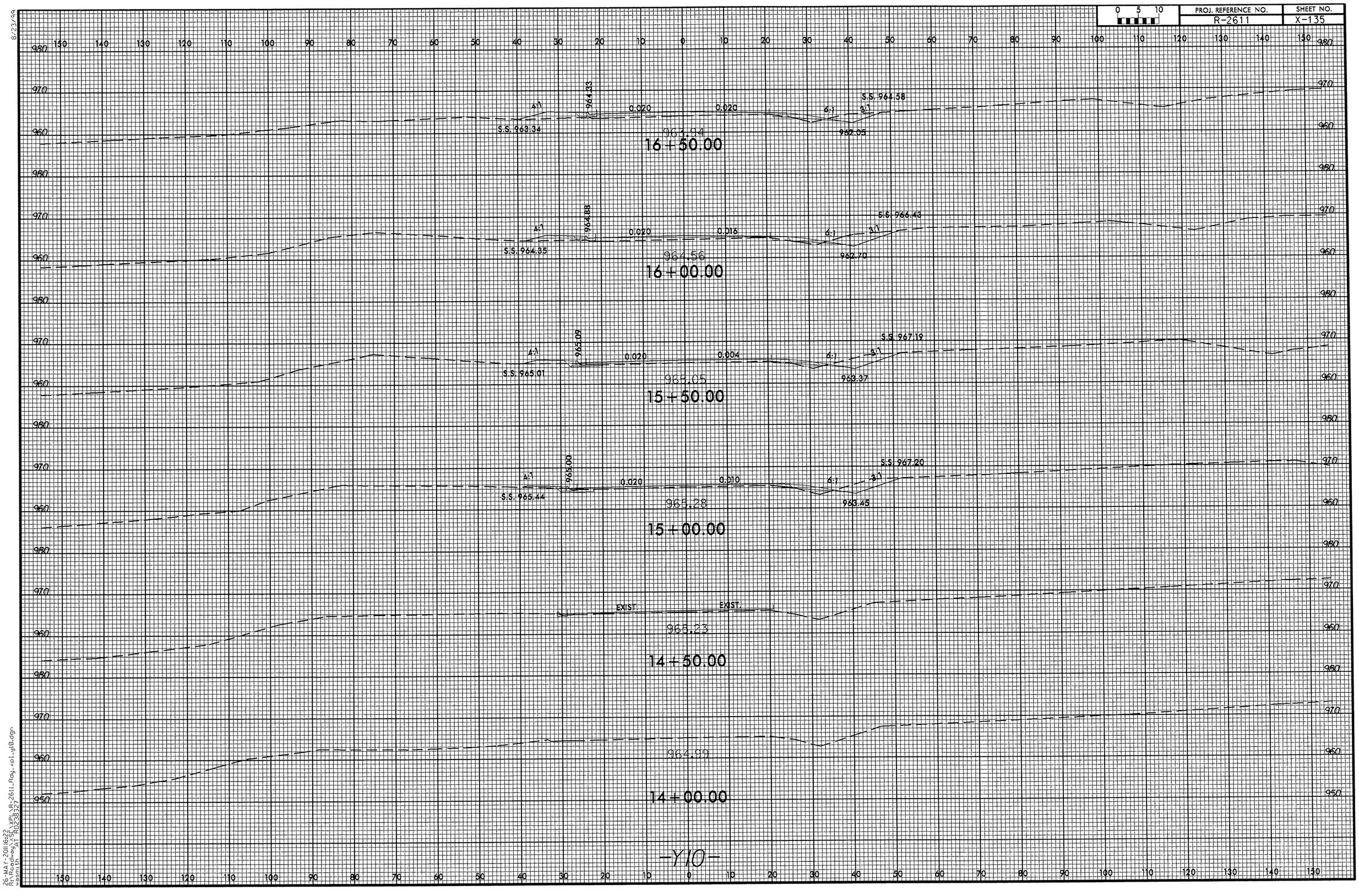

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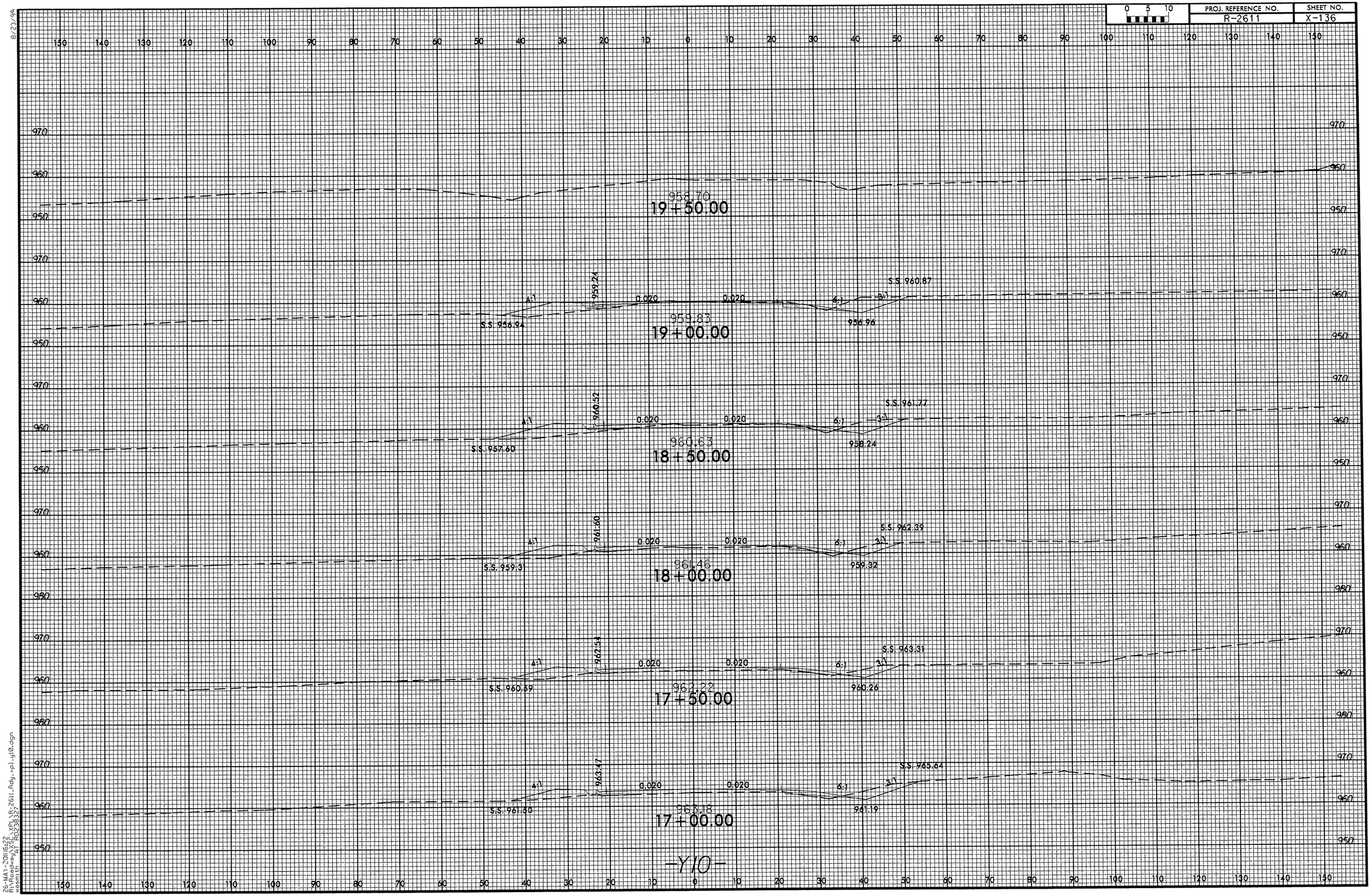

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UNSUITABLE EXCAVATION

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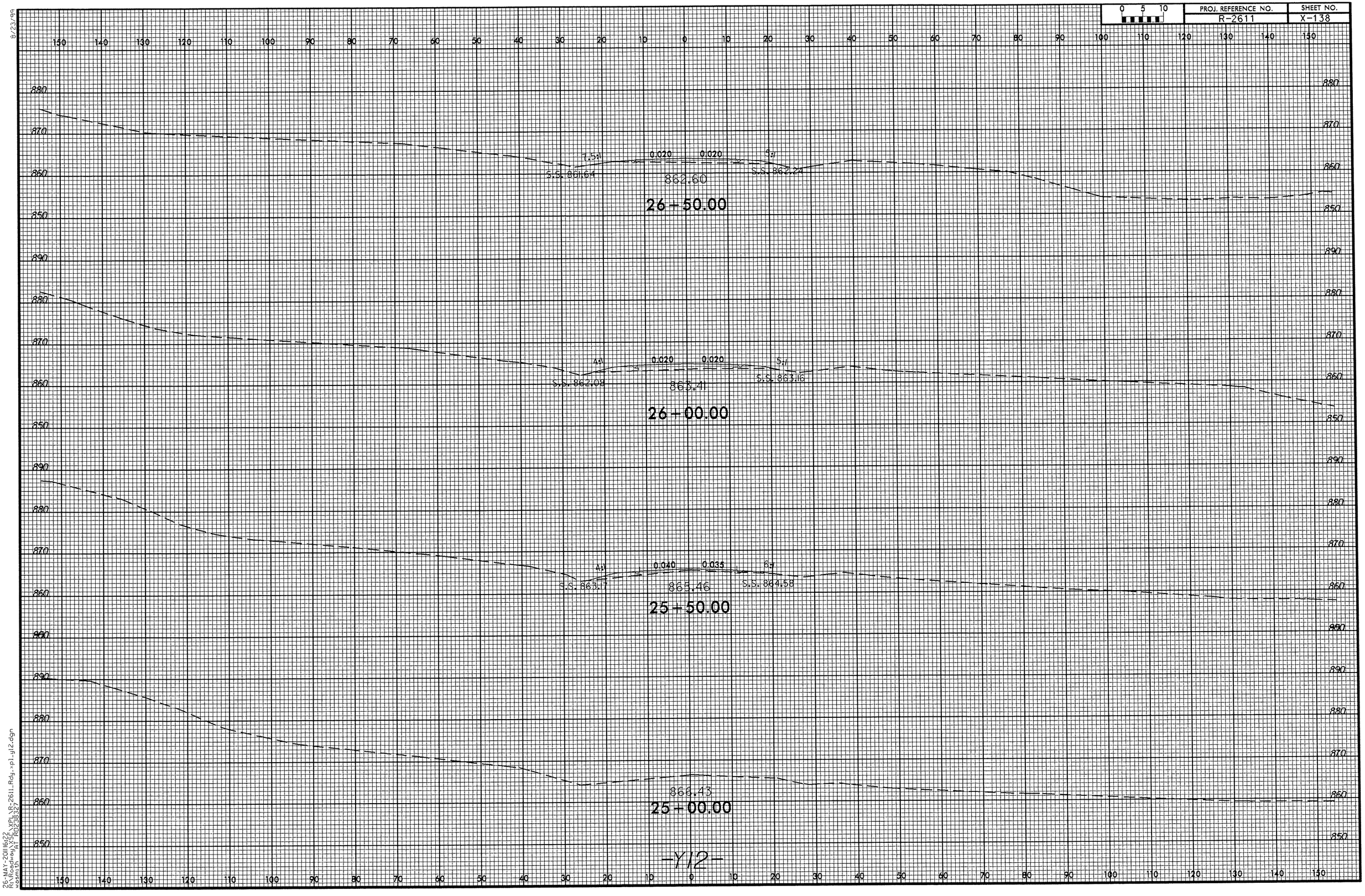

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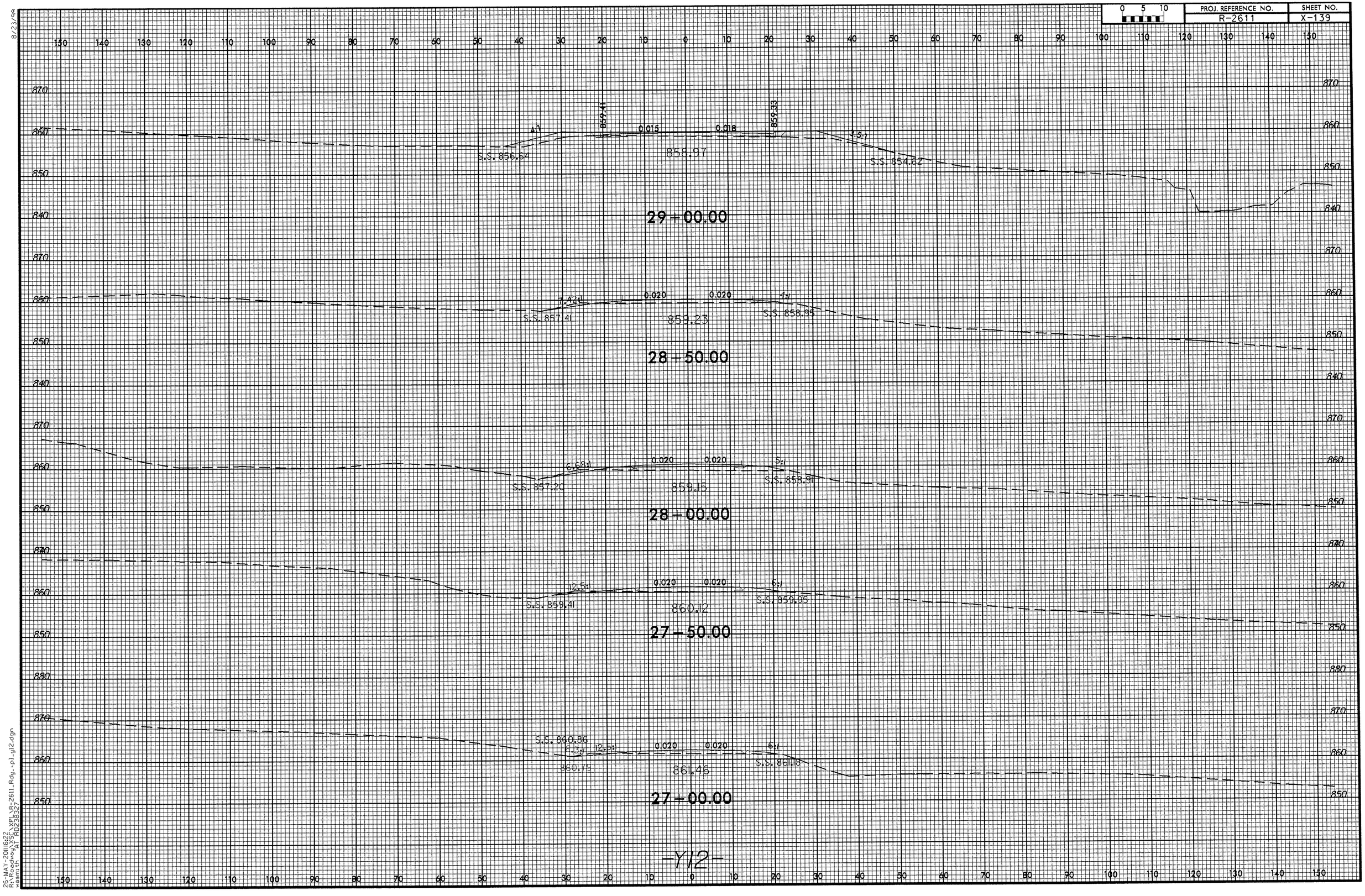

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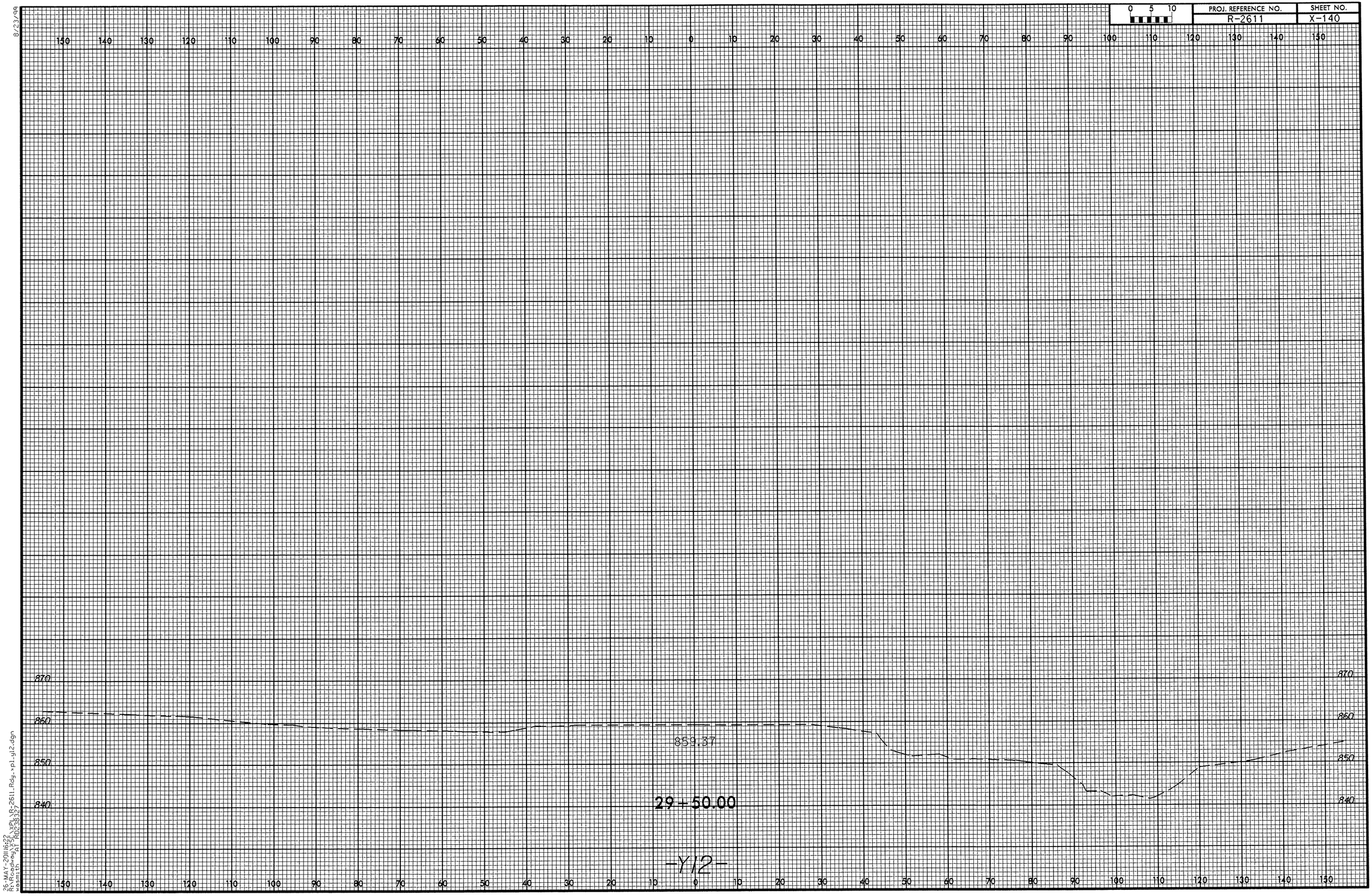

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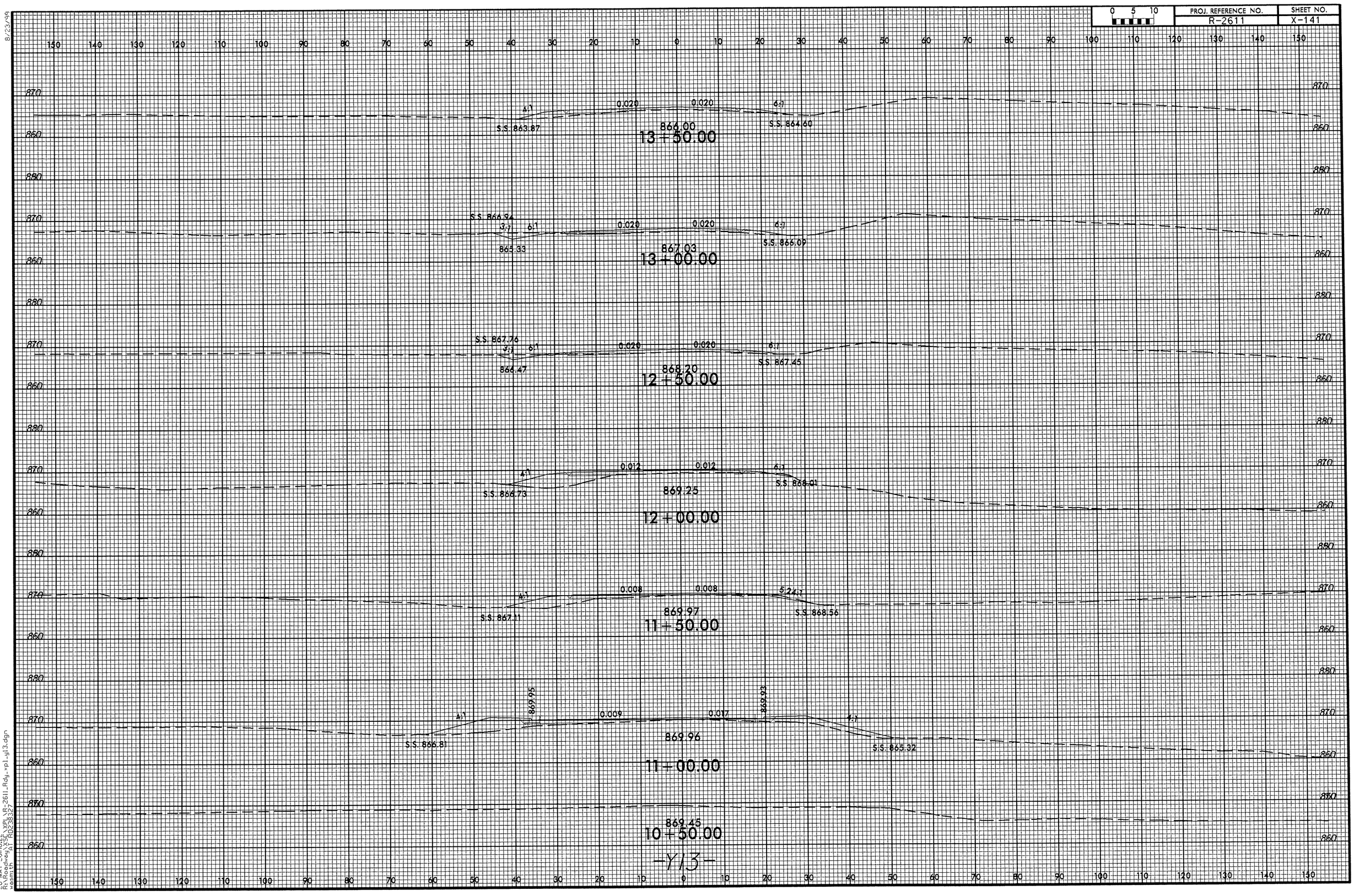

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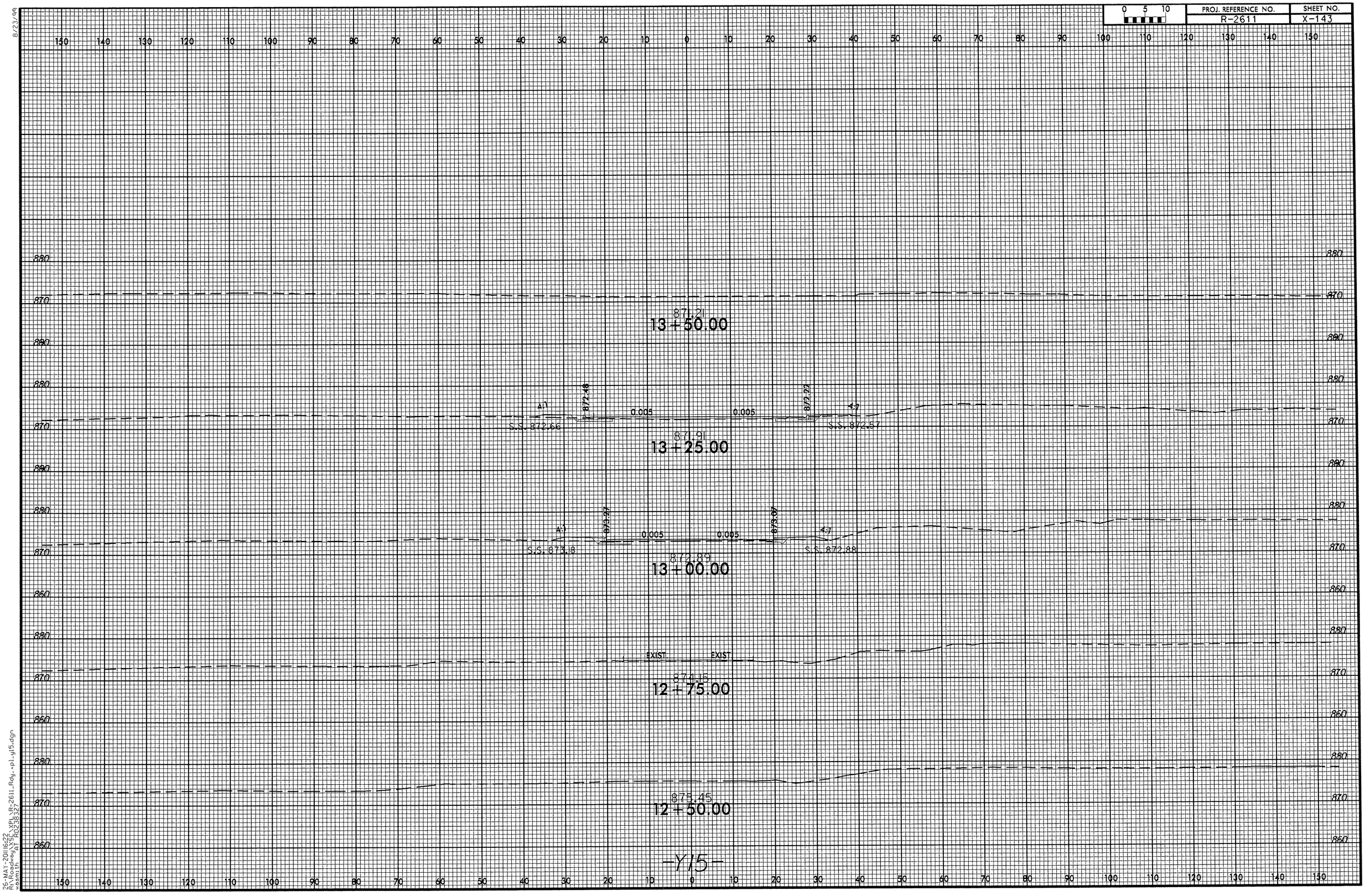

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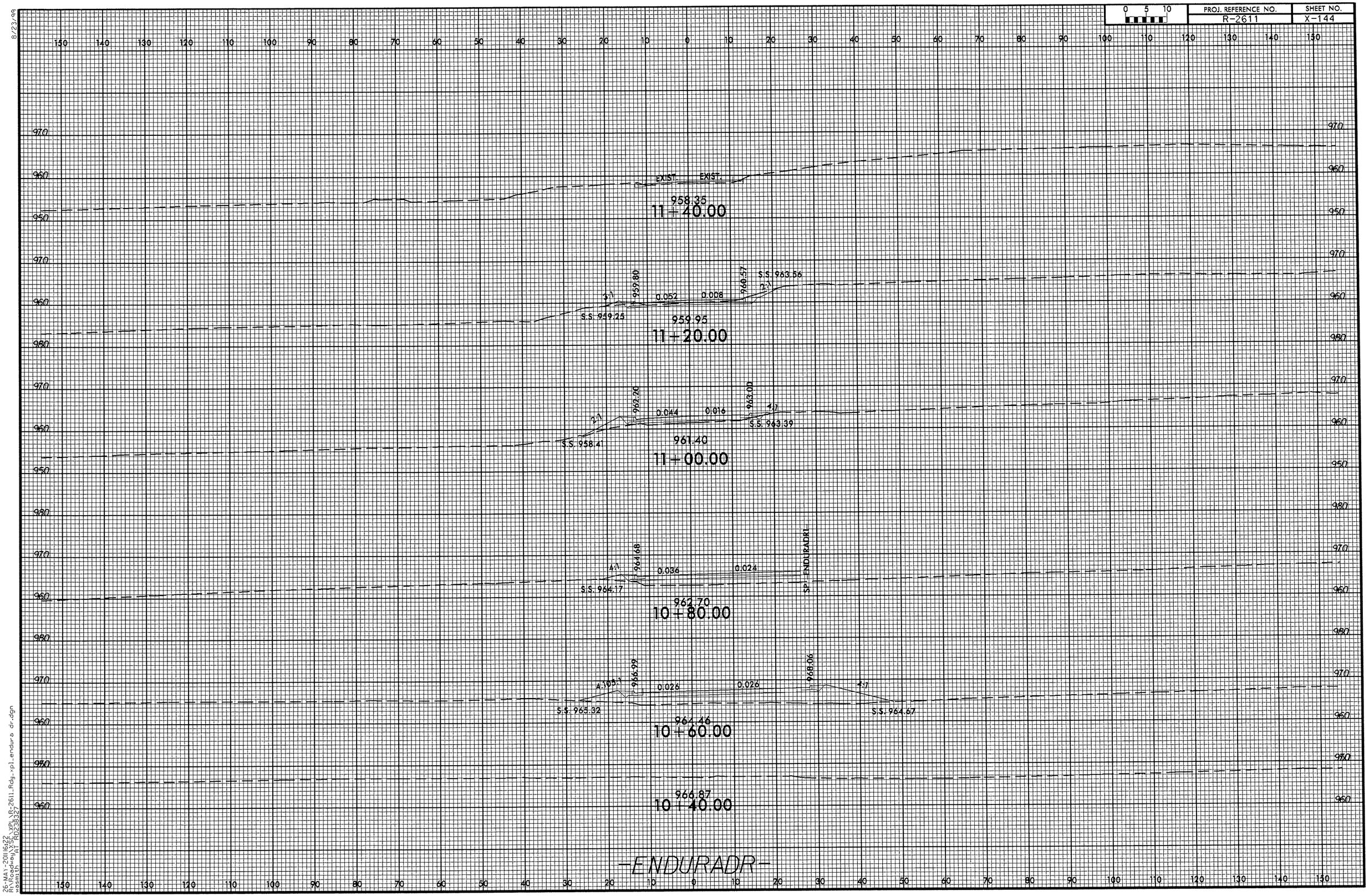

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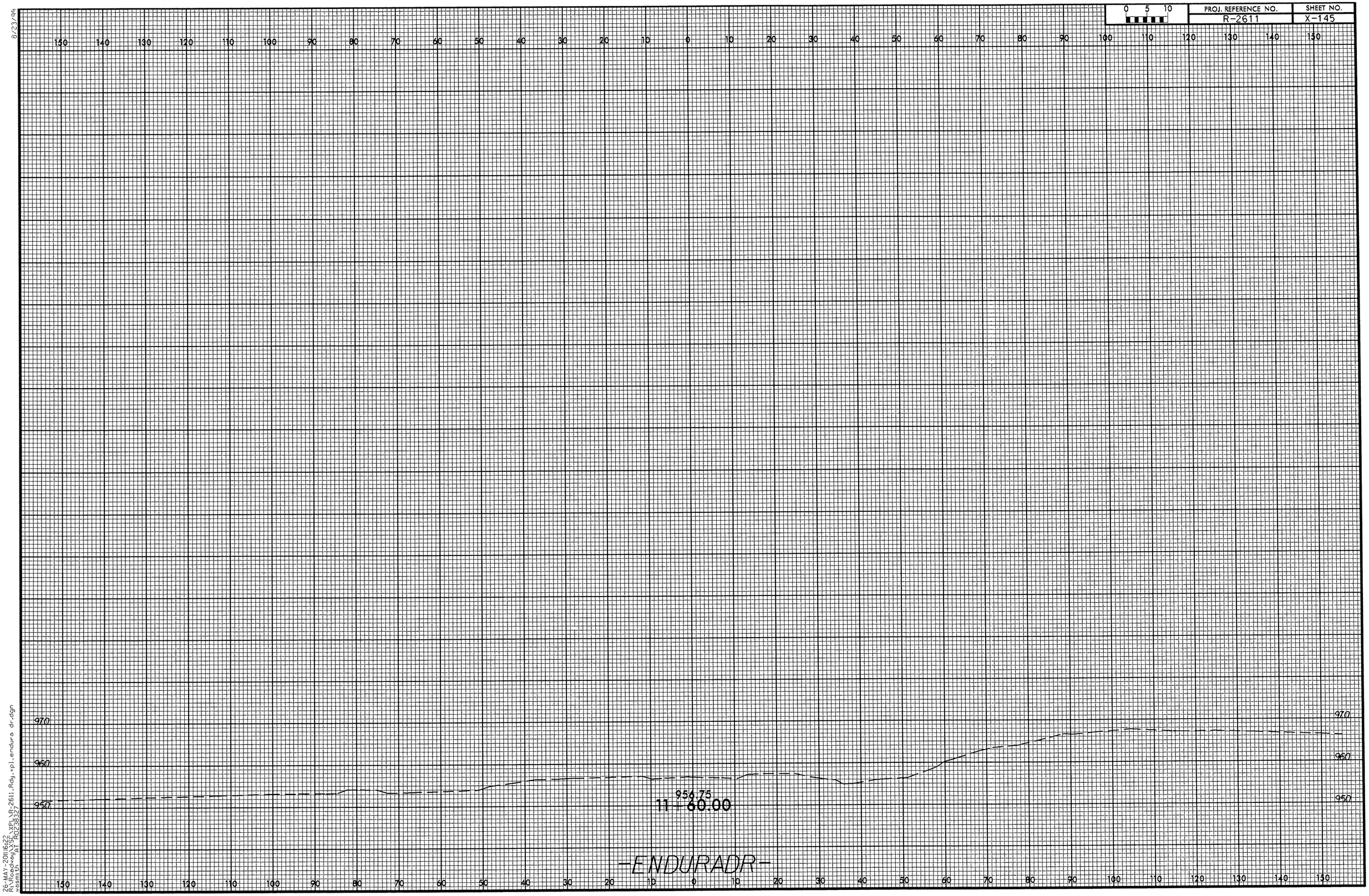

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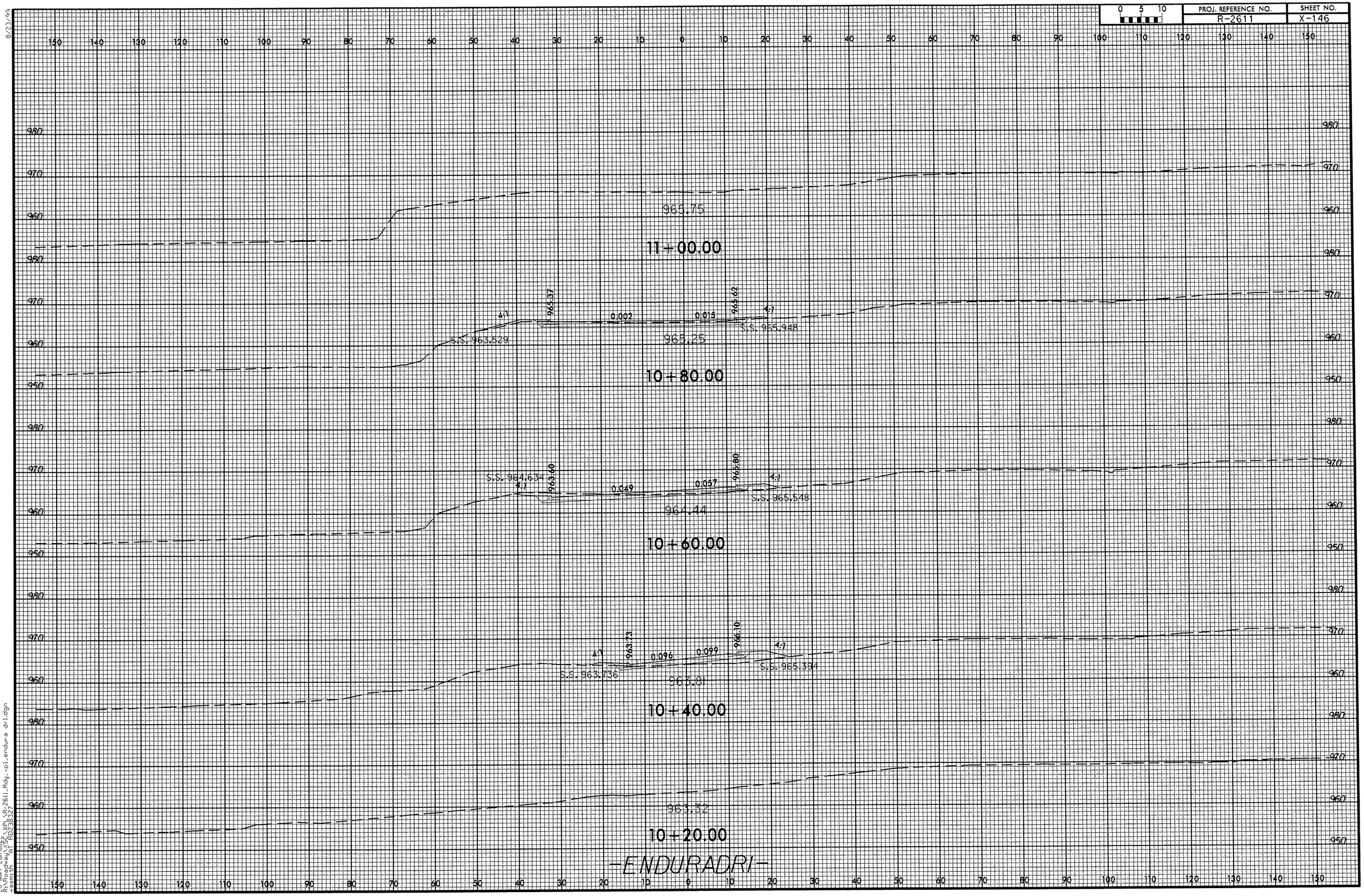

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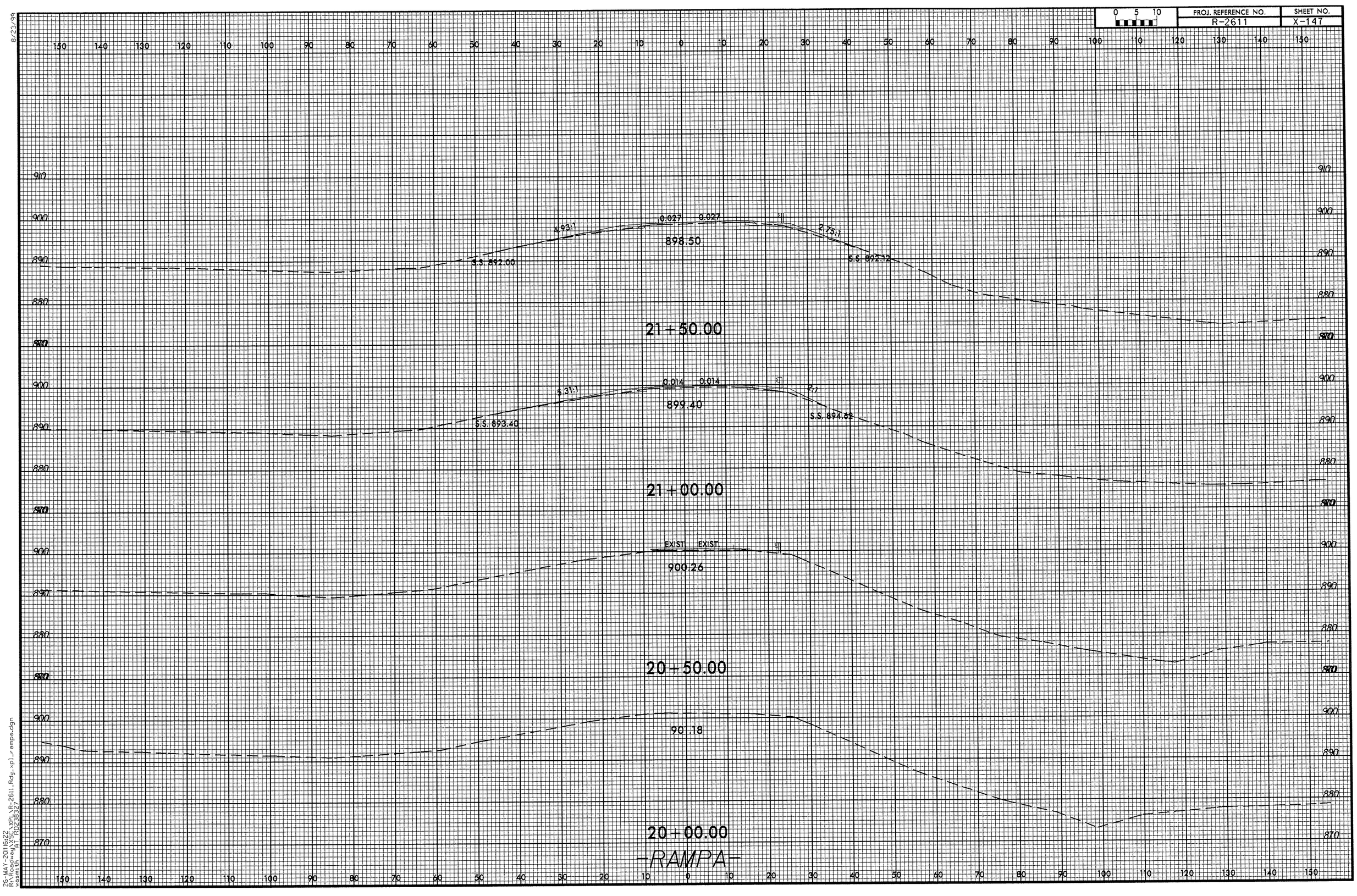

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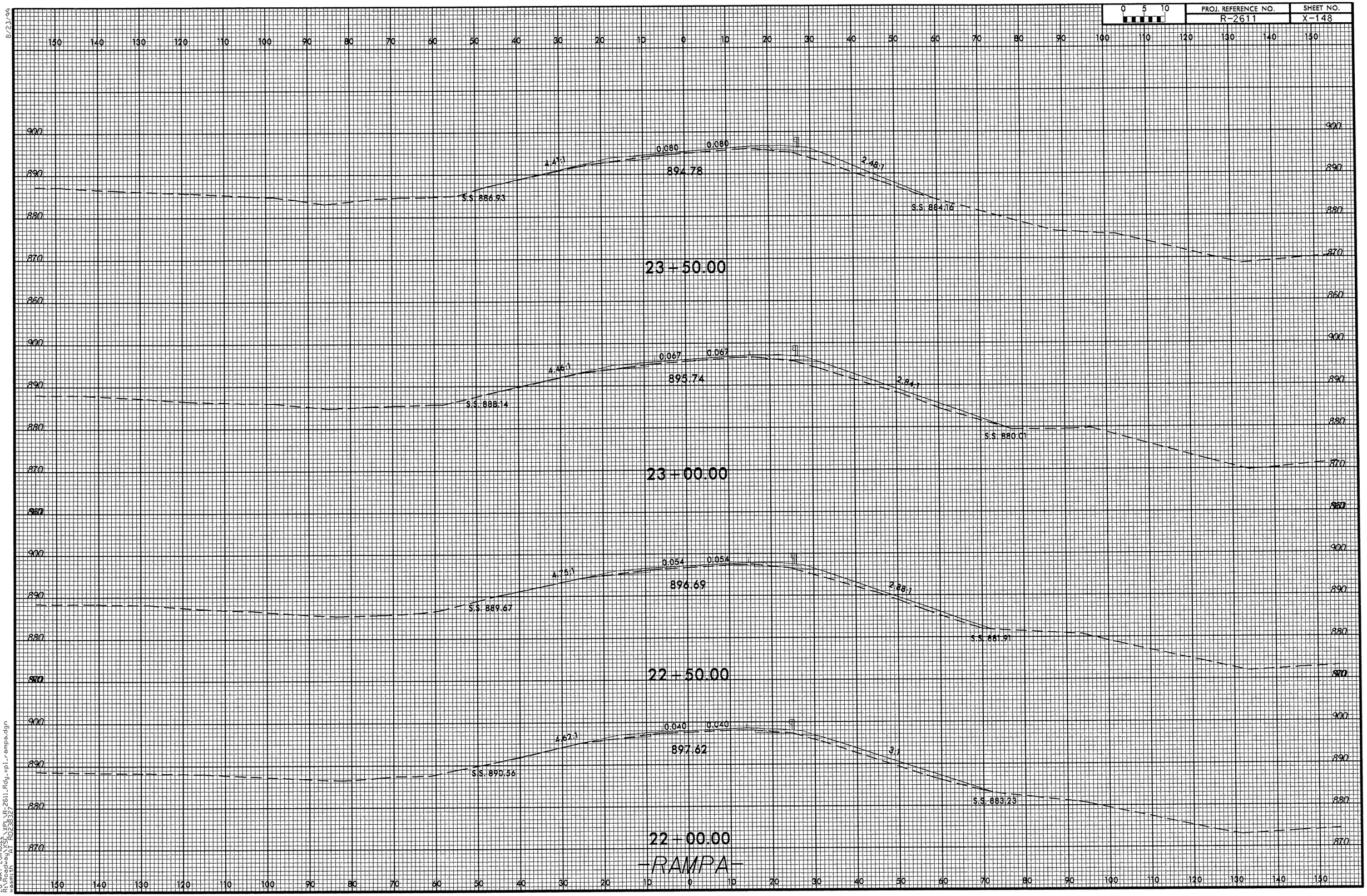

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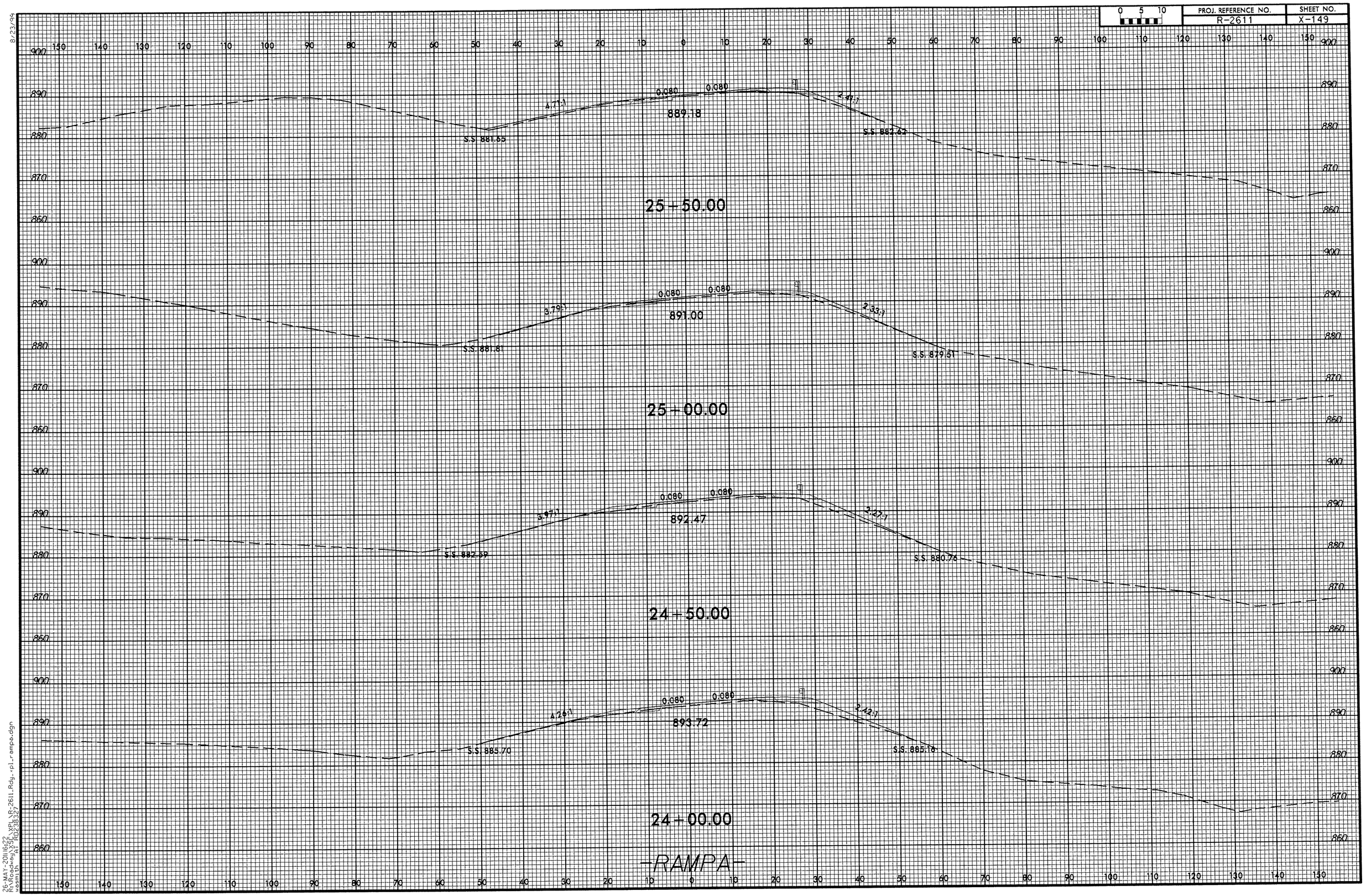

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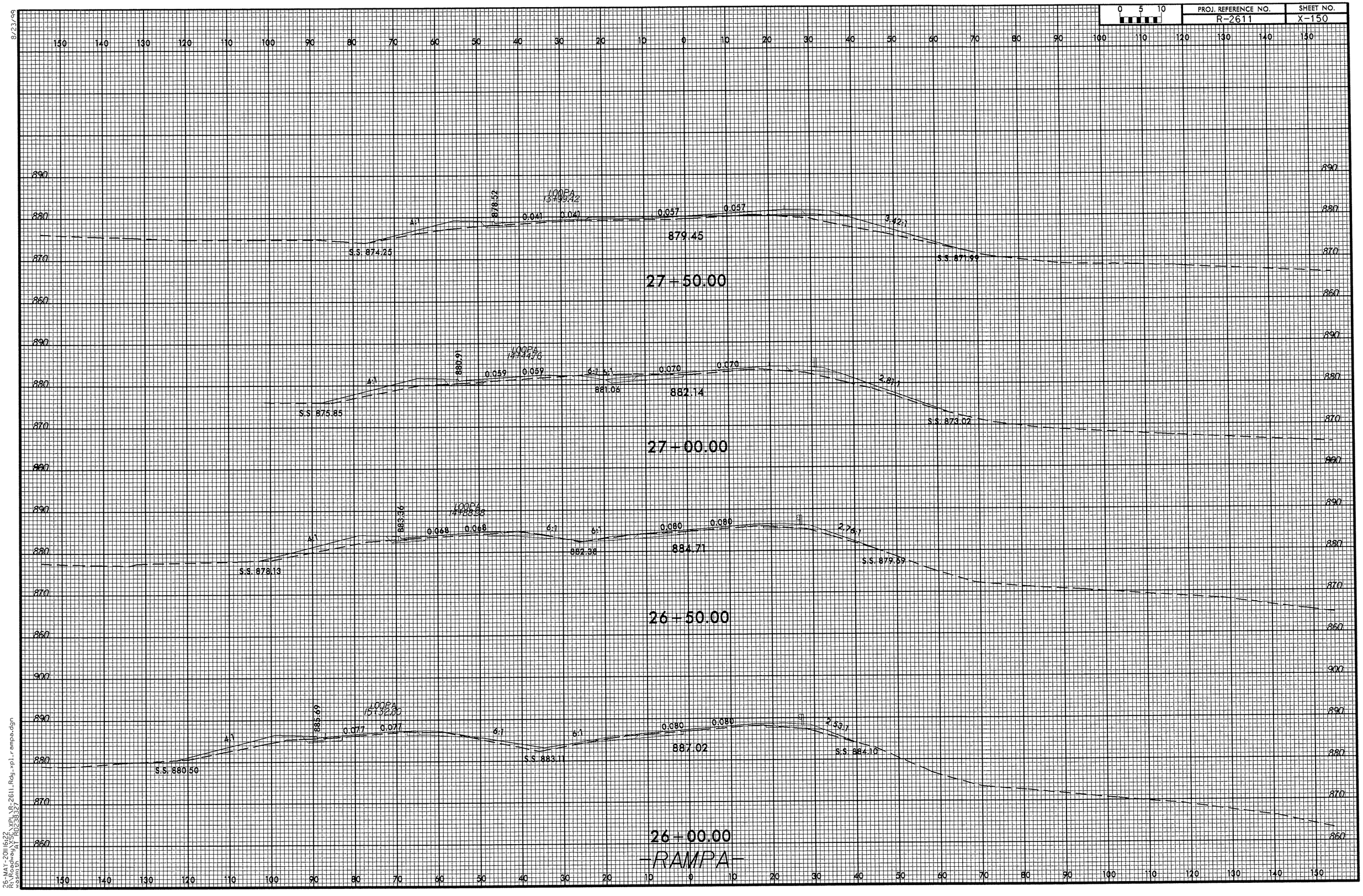

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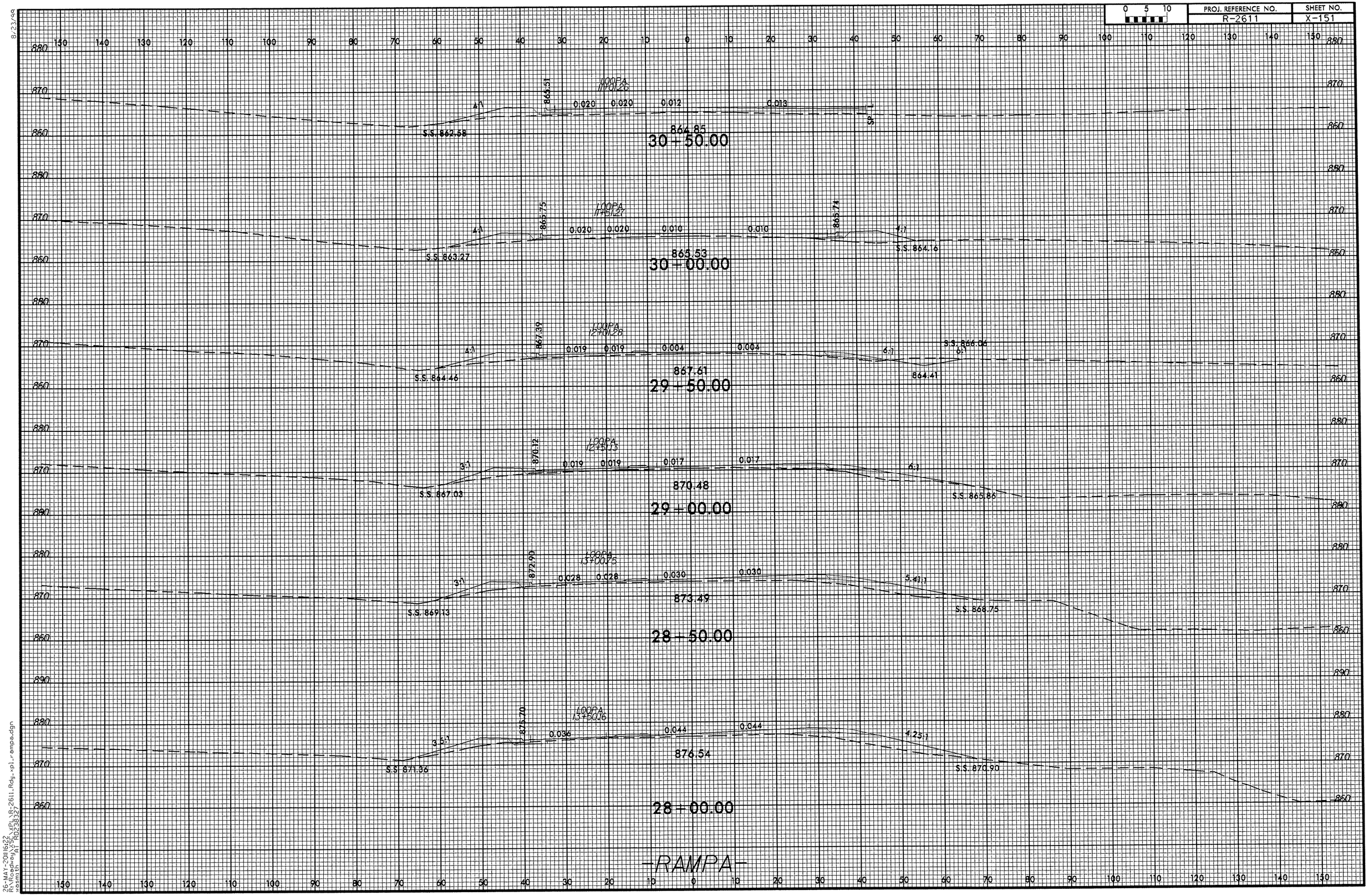

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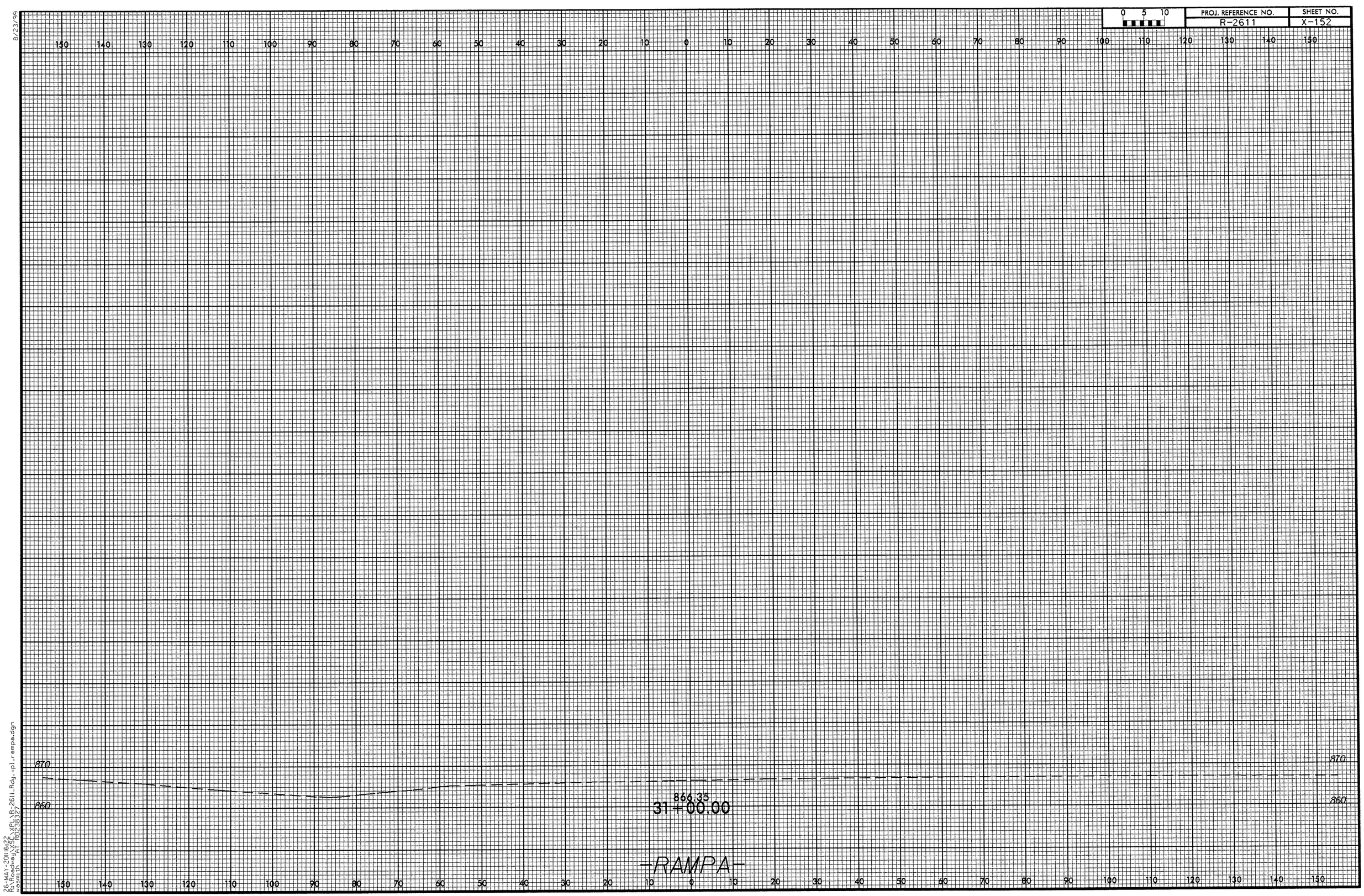

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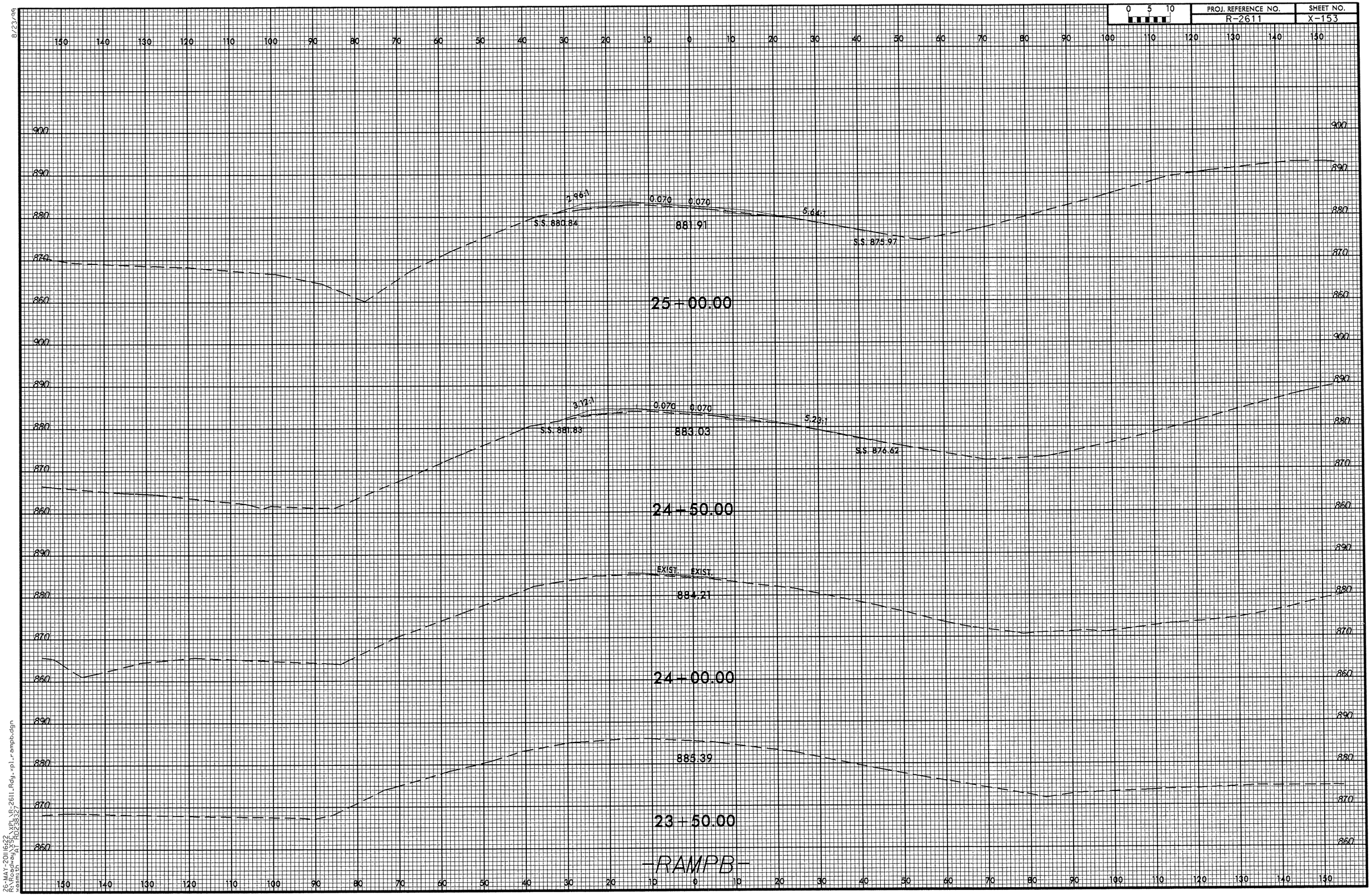

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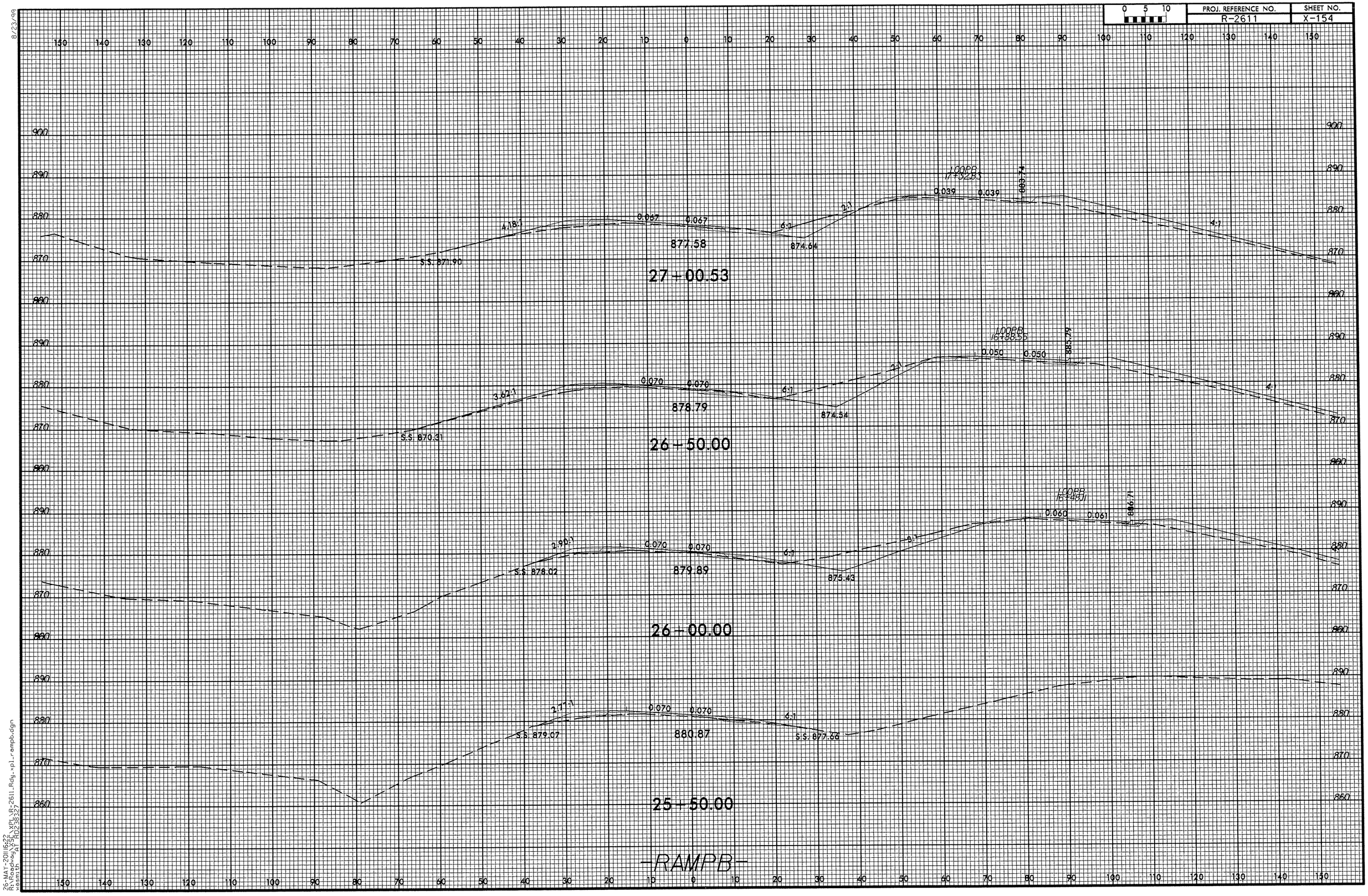

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X-154
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S.S. 871.90
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0.067
0.067
6:1
2:1
874.64
0.039
0.039
883.74
4:1
26+50.00
878.79
S.S. 870.31
3.62:1
0.070
0.070
6:1
2:1
874.54
0.050
0.050
885.79
4:1
26+00.00
879.89
S.S. 878.02
2.90:1
0.070
0.070
6:1
875.43
0.060
0.061
886.71
25+50.00
880.87
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8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
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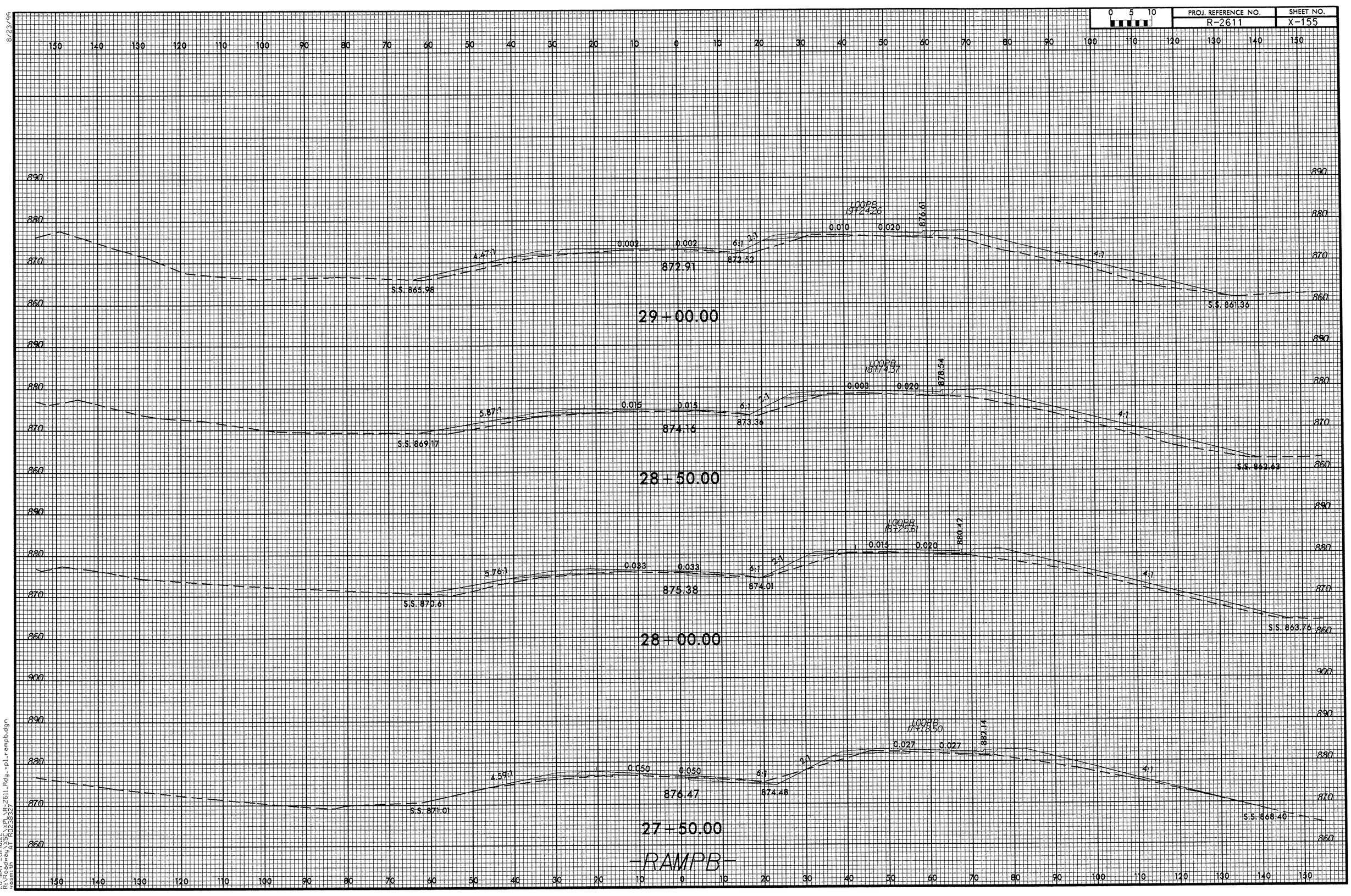

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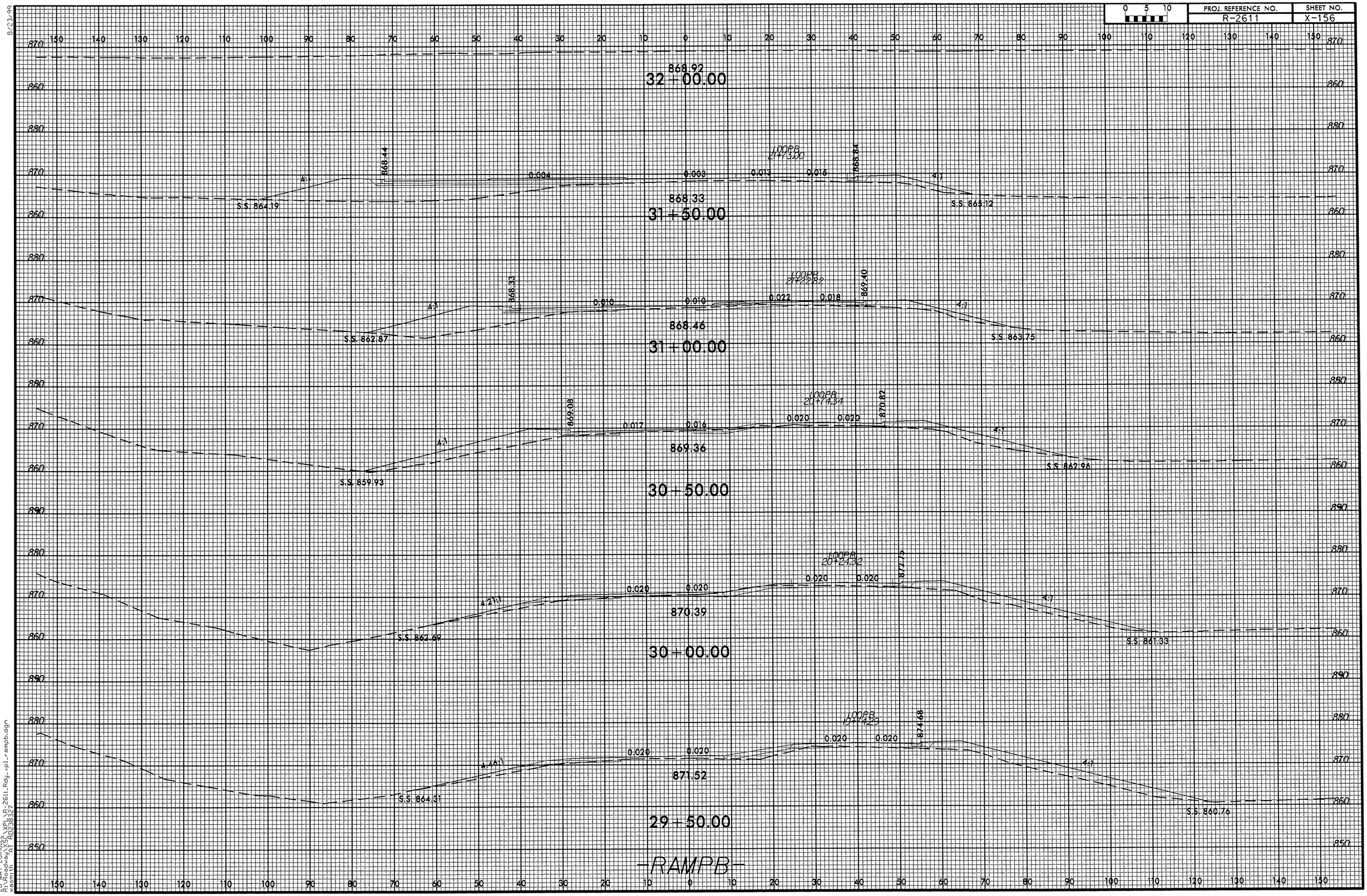
asmith
AT R0238327

8/23/99



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8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-2611	X-157

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

900 890 880 870 860

3%
S.S. 888.67
0.073
0.073
888.39
888.97
4:1
S.S. 869.7

16+00.00

3%
S.S. 890.29
0.085
0.086
890.17
890.93
4:1
S.S. 870.29

15+50.00

6%
S.S. 891.63
0.098
0.098
891.08
893.10
4:1
S.S. 871.8

15+00.00

894.99

14+50.00

-LOOPB-

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

26-MAY-2011 16:22
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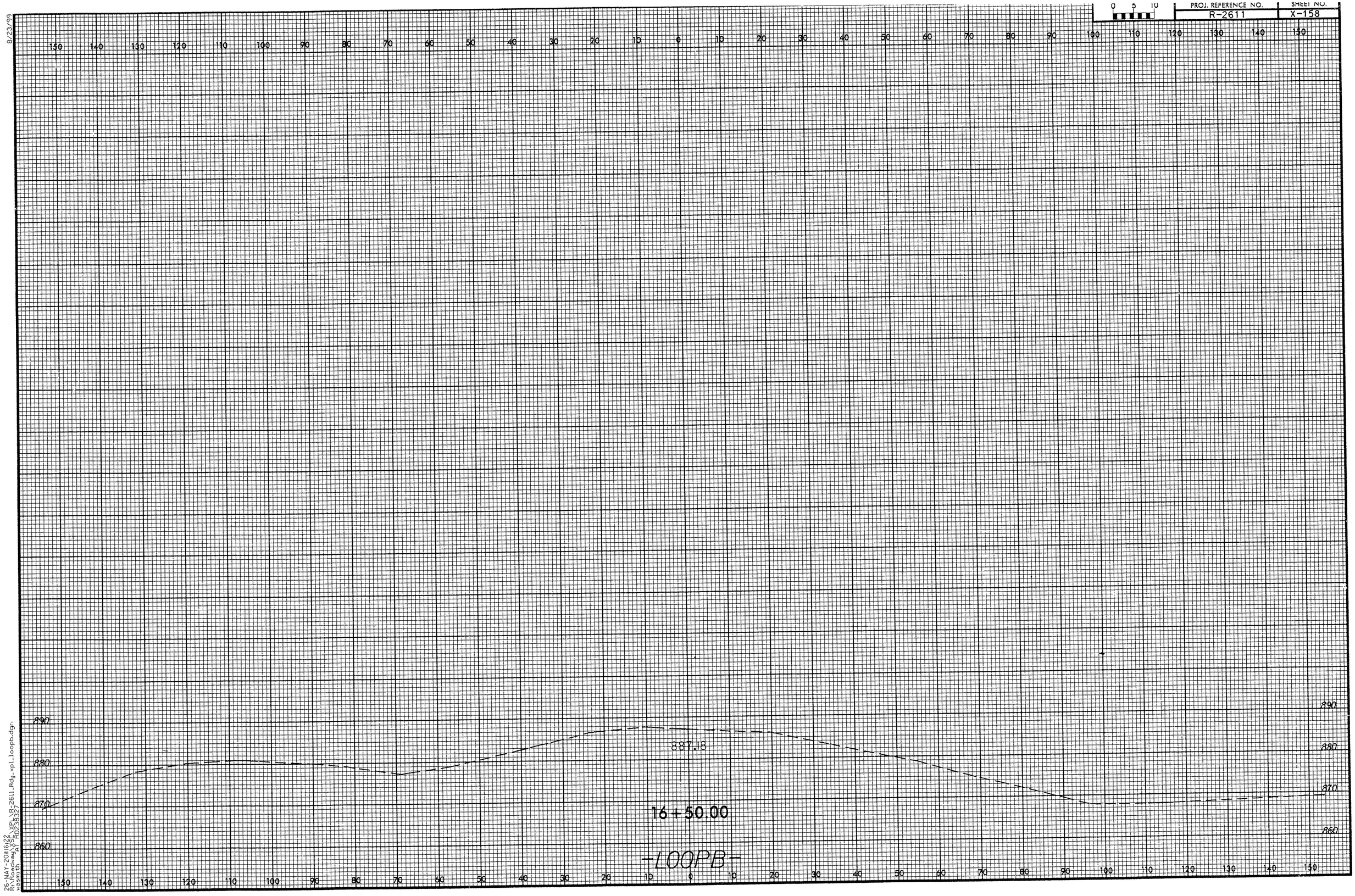
wdsmith
AT RD238327



0 5 10
PROJ. REFERENCE NO.
R-2611
SHEET NO.
X-158
8/23/99
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890
880
870
860
887.18
16+50.00
-LOOPB-
26-MAY-2011 16:22
R:\Roadway\XSC\XPL\R-2611_Rdy_xpl_loopb.dgn
wasmith AT R0238327