8/23/99

PROJ. REFERENCE NO.	SHEET NO.
U-5145	X-A

MOREHEAD ROAD IMPROVEMENTS
CABARRUS COUNTY, NC

CROSS–SECTIONS INDEX

CROSS SECTION SUMMARY		-		X - B
-L-	124+50.00	TO	163+00.00	X - 1 - X - 16
-Y3-	11+00.00	TO	18+50.00	X - 17 - X - 22
-Y4-	10+00.00	TO	19+42.16	X - 23 - X - 32
-Y5-	10+50.00	TO	13+50.00	X - 33 - X - 34
-Y6-	11+25.00	TO	16+75.00	X - 35 - X - 39
-Y7-	9+00.00	TO	11+50.00	X - 40 - X - 42

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roulten

PROJ. REFERENCE NO.	SHEET NO.
U-5145	X-B

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

CROSS-SECTION SUMMARY

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.

NOTE: EMBANKMENT COLUMN DOES NOT INCLUDE BACKFILL FOR UNDERCUT

Station L	Uncl. Exc. (cu. yd.)	Embt (cu. yd.)
125+50.00	0	0
126+00.00	28	14
126+50.00	24	18
127+00.00	12	31
127+50.00	4	44
128+00.00	5	70
128+50.00	7	96
129+00.00	25	86
129+50.00	44	80
130+00.00	45	94
130+50.00	70	97
131+00.00	128	90
131+50.00	264	51
132+00.00	560	12
132+50.00	947	4
133+00.00	1143	2
133+50.00	1029	0
134+00.00	772	5
134+50.00	597	9
135+00.00	609	5
135+50.00	786	1
136+00.00	1015	0
136+50.00	1258	0
137+00.00	1656	0
137+50.00	2156	0
138+00.00	2859	0
138+50.00	2858	0
139+00.00	2407	0
139+50.00	2250	0
140+00.00	1957	0
140+50.00	1752	0
141+00.00	1691	0
141+50.00	1617	0
142+00.00	1429	0
142+50.00	1123	0
143+00.00	620	23
143+50.00	183	151
144+00.00	27	402
144+50.00	44	428
145+00.00	153	182
145+50.00	269	39
146+00.00	340	22
146+50.00	354	14
147+00.00	314	10
147+50.00	271	20
148+00.00	227	26
148+50.00	186	22
149+00.00	152	19
149+50.00	119	19
150+00.00	74	30
150+50.00	88	34
151+00.00	193	50
151+50.00	166	54

Station L	Uncl. Exc. (cu. yd.)	Embt (cu. yd.)
152+00.00	113	72
152+50.00	227	72
153+00.00	405	18
153+50.00	471	15
154+00.00	290	123

Station L	Uncl. Exc. (cu. yd.)	Embt (cu. yd.)
154+50.00	0	0
155+00.00	0	2981
155+50.00	0	3959
156+00.00	0	2885
156+50.00	0	1555
157+00.00	0	828
157+50.00	0	458
158+00.00	2	297
158+50.00	4	211
159+00.00	8	172
159+50.00	14	177
160+00.00	16	144
160+50.00	15	117
161+00.00	23	73
161+50.00	23	34
162+00.00	17	18
162+50.00	18	14

Station Y3	Uncl. Exc. (cu. yd.)	Embt (cu. yd.)
11+25.00	0	0
11+50.00	33	13
11+75.00	28	13
12+00.00	29	10
12+25.00	42	6
12+50.00	60	2
12+75.00	83	0
13+00.00	114	0
13+25.00	146	0
13+50.00	166	0
13+75.00	164	0

Station Y3	Uncl. Exc. (cu. yd.)	Embt (cu. yd.)
14+75.00	0	0
15+00.00	0	164
15+25.00	0	104
15+50.00	7	47
15+75.00	47	11
16+00.00	114	1
16+25.00	175	0
16+50.00	226	0

Station Y3	Uncl. Exc. (cu. yd.)	Embt (cu. yd.)
16+75.00	268	0
17+00.00	306	0
17+25.00	351	0
17+50.00	414	0
17+75.00	500	0
18+00.00	582	0
18+25.00	679	0
18+50.00	837	0

Station Y4	Uncl. Exc. (cu. yd.)	Embt (cu. yd.)
10+25.00	0	0
10+50.00	54	8
10+75.00	47	5
11+00.00	68	1
11+25.00	107	0
11+50.00	160	0
11+75.00	220	0
12+00.00	279	0
12+25.00	330	3
12+50.00	341	17
12+75.00	284	28
13+00.00	140	29
13+25.00	68	39
13+50.00	207	49
13+75.00	463	26
14+00.00	730	0
14+25.00	930	0
14+50.00	1054	0
14+75.00	1144	11
15+00.00	1182	22
15+25.00	1157	21
15+50.00	1132	24
15+75.00	1094	24
16+00.00	1028	34
16+25.00	973	41
16+50.00	923	32
16+75.00	859	31
17+00.00	788	37
17+25.00	685	20
17+50.00	555	0
17+75.00	439	0
18+00.00	329	0
18+25.00	222	0
18+50.00	119	1
18+75.00	36	24
19+00.00	4	47
19+25.00	19	46

Station Y5	Uncl. Exc. (cu. yd.)	Embt (cu. yd.)
10+50.00	0	0
10+66.00	0	153
11+00.00	0	185
11+25.42	1	45
11+50.00	7	3
12+00.00	23	3

Station Y6	Uncl. Exc. (cu. yd.)	Embt (cu. yd.)
12+25.00	0	0
12+50.00	2	39
12+75.00	2	59
13+00.00	1	68
13+25.00	1	77
13+50.00	0	112
13+75.00	0	160
14+00.00	2	185
14+25.00	27	197
14+50.00	54	215
14+75.00	52	233
15+00.00	39	125
15+25.00	21	15
15+50.00	6	26
15+75.00	6	58
16+00.00	11	73
16+25.00	11	50
16+50.00	11	36

Station Y7	Uncl. Exc. (cu. yd.)	Embt (cu. yd.)
9+00.00	0	0
9+25.00	5	0
9+50.00	4	0
9+75.00	3	0
10+00.00	4	11
10+25.00	2	25
10+50.00	0	35
10+75.00	0	63
11+00.00	0	118
11+25.00	0	232
11+50.00	0	376

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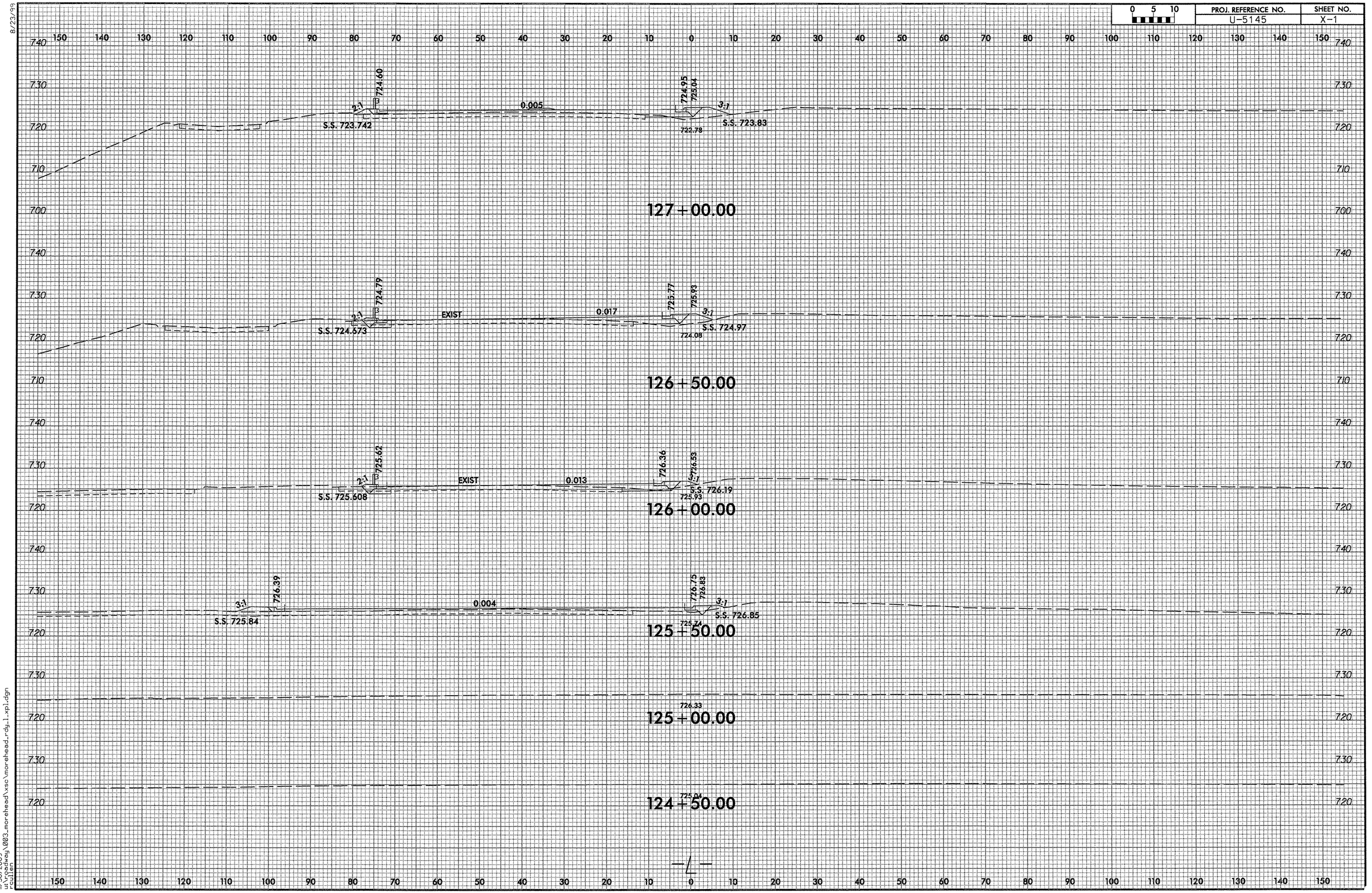
0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	U-5145	X-1



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0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	U-5145	X-2

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

740 730 720 710 700 690

723.05 721.79 721.35 720.73 720.42

2:1 0.033 0.033 0.034 3:1

719.37 S.S. 718.17

128+50.00

723.78 723.05 722.80 722.385 722.20

2:1 0.020 0.020 0.023 3:1

S.S. 720.381 720.72 S.S. 720.40

128+00.00

724.34 723.85 723.76

2:1 0.008 3:1

S.S. 722.882 721.91 S.S. 721.90

127+50.00

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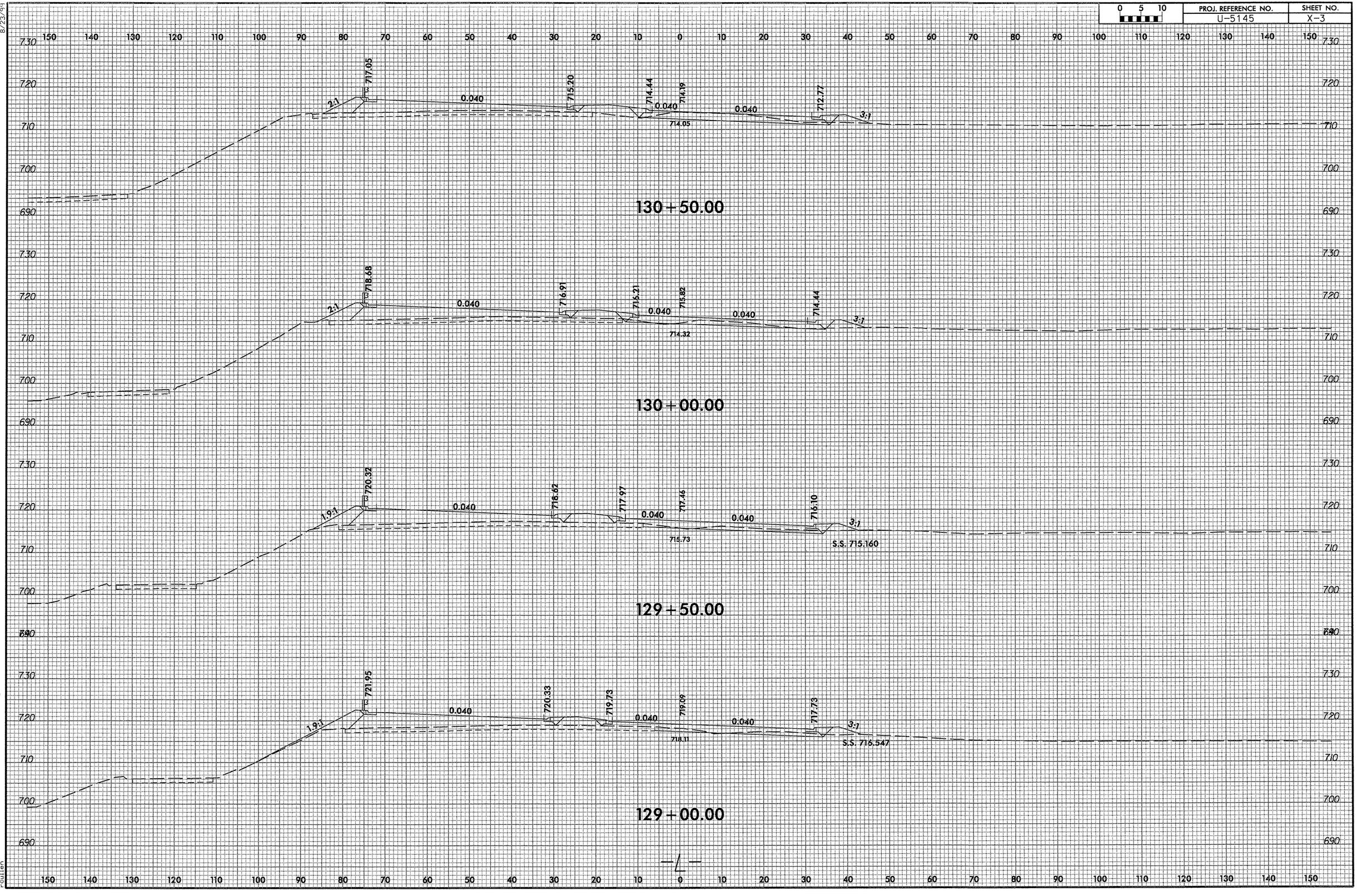

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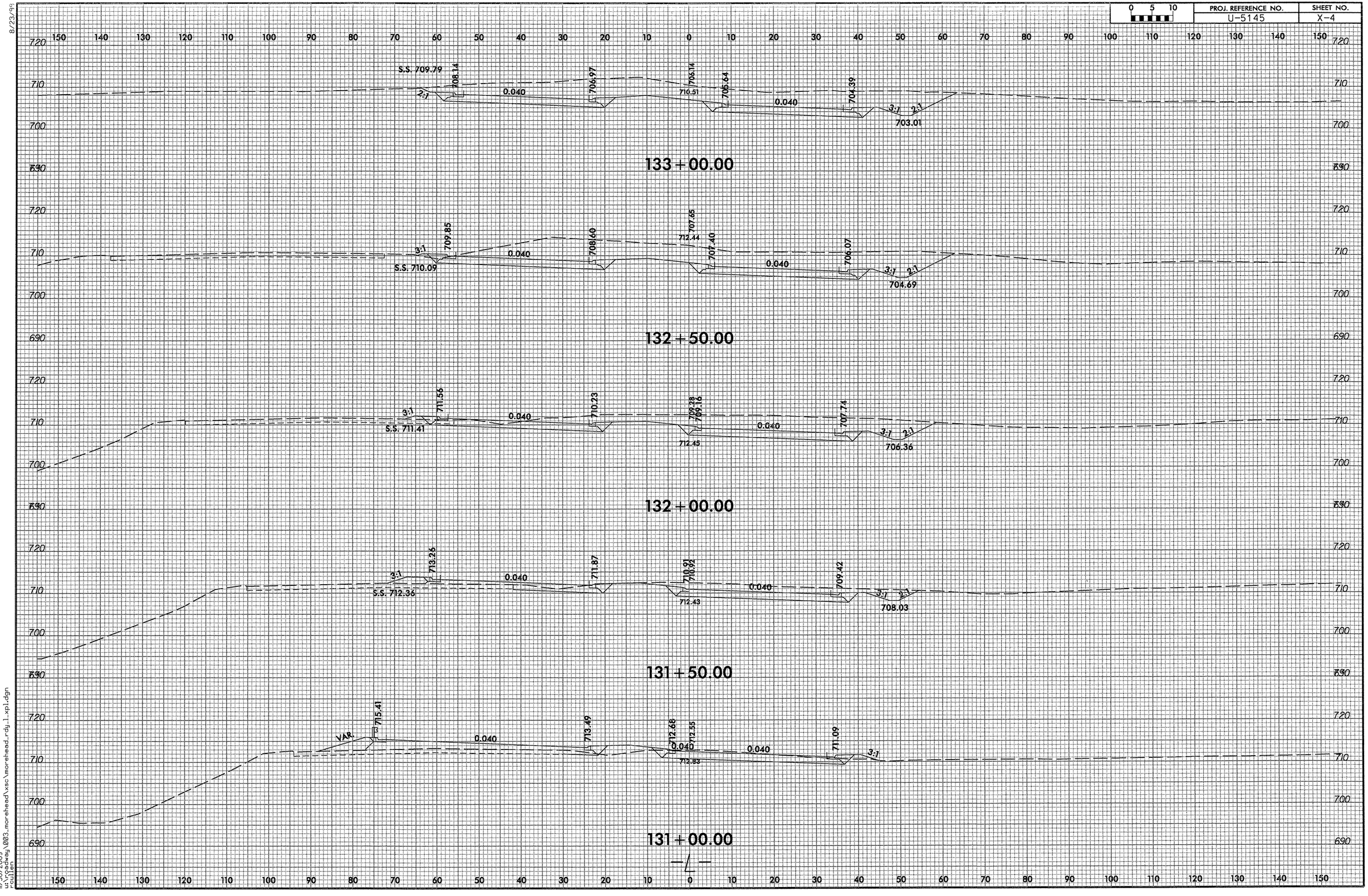
	U-5145	X-4



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0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	U-5145	X-5

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

720 710 700 690

S.S. 701.39
2:1 3:1
698.98
700.36
0.018
699.92
702.43
702.83
699.31
0.018
698.77
3:1 2:1
697.39

135+50.00

710 700 690

3:1
701.66
S.S. 701.85
0.027
701.02
702.66
702.68
700.09
0.027
699.32
3:1 2:1
697.94

135+00.00

710 700 690

3:1
703.20
S.S. 702.62
0.035
702.37
703.15
703.29
701.06
0.035
700.07
3:1 2:1
698.69

134+50.00

710 700 690

3:1
704.83
S.S. 704.00
0.040
703.80
703.89
704.82
702.26
0.040
701.17
3:1 2:1
699.79

134+00.00

720 710 700 690

3:1
706.43
S.S. 706.96
0.040
705.33
704.89
708.06
703.88
0.040
702.72
3:1 2:1
701.34

133+50.00

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

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0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	U-5145	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

720 710 700 690 680

S.S. 703.56 | 2:1 | 3:1 | 694.66 | 0.023 | 0.023 | 695.20 | 703.01 | 704.27 | 695.77 | 0.023 | 0.023 | EOT | 0.02 | 0.02 | 0.08 | 0.15

693.17

DRIVE TURNOUT
PER NCDOT STANDARDS

138+00.00

S.S. 703.72 | 2:1 | 3:1 | 695.78 | 0.015 | 696.12 | 703.10 | 704.19 | 696.50 | 0.015 | EOT | 0.02 | 696.61 | 3:1 | 2:1

694.29

137+50.00

S.S. 703.23 | 2:1 | 3:1 | 696.91 | 0.007 | 697.04 | 702.93 | 703.29 | 697.23 | 0.007 | EOT | 0.02 | 697.47 | 3:1 | 2:1

695.44

137+00.00

S.S. 702.15 | 2:1 | 3:1 | 698.06 | 0.002 | 697.99 | 702.68 | 702.86 | 697.94 | 0.002 | EOT | 0.02 | 697.78 | 3:1 | 2:1

696.60

696.40

136+50.00

S.S. 701.87 | 2:1 | 3:1 | 699.16 | 0.010 | 698.95 | 702.45 | 702.54 | 698.63 | 0.010 | 698.31 | 3:1 | 2:1

697.78

696.93

136+00.00

—L—

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

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cutler

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0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	U-5145	X-7

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

710 / 700 / 690 / 680

699.10 697.53 691.91 692.91 691.20 690.25 688.80 689.74
2:1 3:1 0.040 0.040 0.040 0.040 3:1 2:1

140+50.00

700.06 699.42 692.69 693.69 691.94 690.99 689.54 689.99
2:1 3:1 0.040 0.040 0.040 0.040 3:1 2:1

140+00.00

701.03 699.83 693.47 694.47 692.68 691.74 690.28 690.24
2:1 3:1 0.040 0.040 0.040 0.040 3:1 2:1

139+50.00

701.95 701.41 694.26 695.25 693.43 692.48 691.03 690.49
2:1 3:1 0.040 0.040 0.040 0.040 3:1 2:1

139+00.00

EDGE OF SIDEWALK

S.S. 702.98 702.62 702.94 695.02 695.82 693.56 694.31 692.07
2:1 3:1 0.032 0.032 0.032 0.032 0.02 0.08 0.15

138+50.00

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

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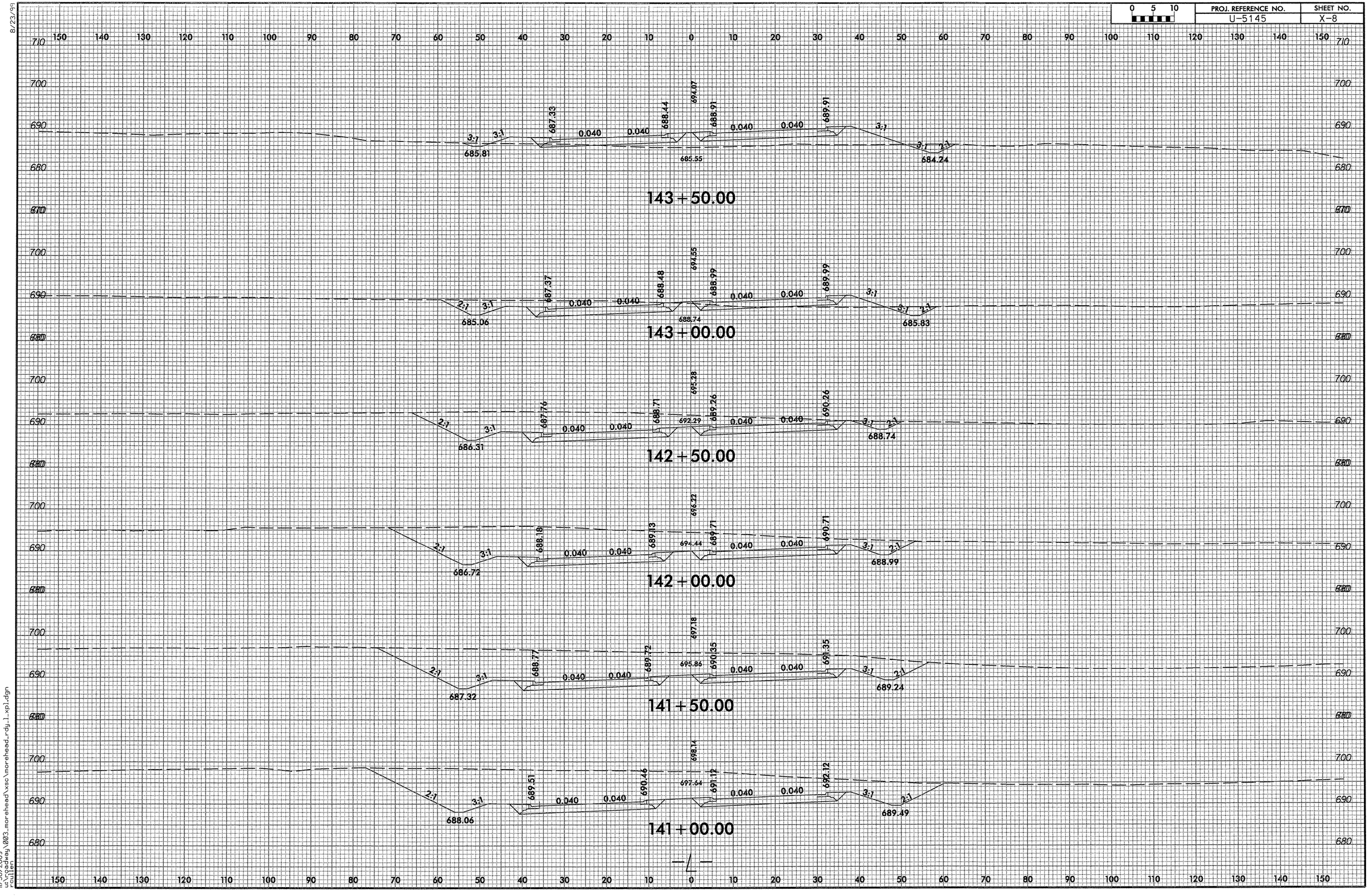
raulen



0 5 10
PROJ. REFERENCE NO.
U-5145
SHEET NO.
X-8
143+50.00
685.81
687.33
688.44
694.07
688.91
689.91
685.55
684.24
143+00.00
685.06
687.37
688.48
694.55
688.99
689.99
688.74
685.83
142+50.00
686.31
687.76
688.71
695.28
689.26
690.26
692.29
688.74
142+00.00
686.72
688.18
689.13
696.22
689.71
690.71
694.44
688.99
141+50.00
687.32
688.77
689.72
697.18
690.35
691.35
695.86
689.24
141+00.00
688.06
689.51
690.46
698.14
691.12
692.12
697.64
689.49
0.040
3:1
2:1
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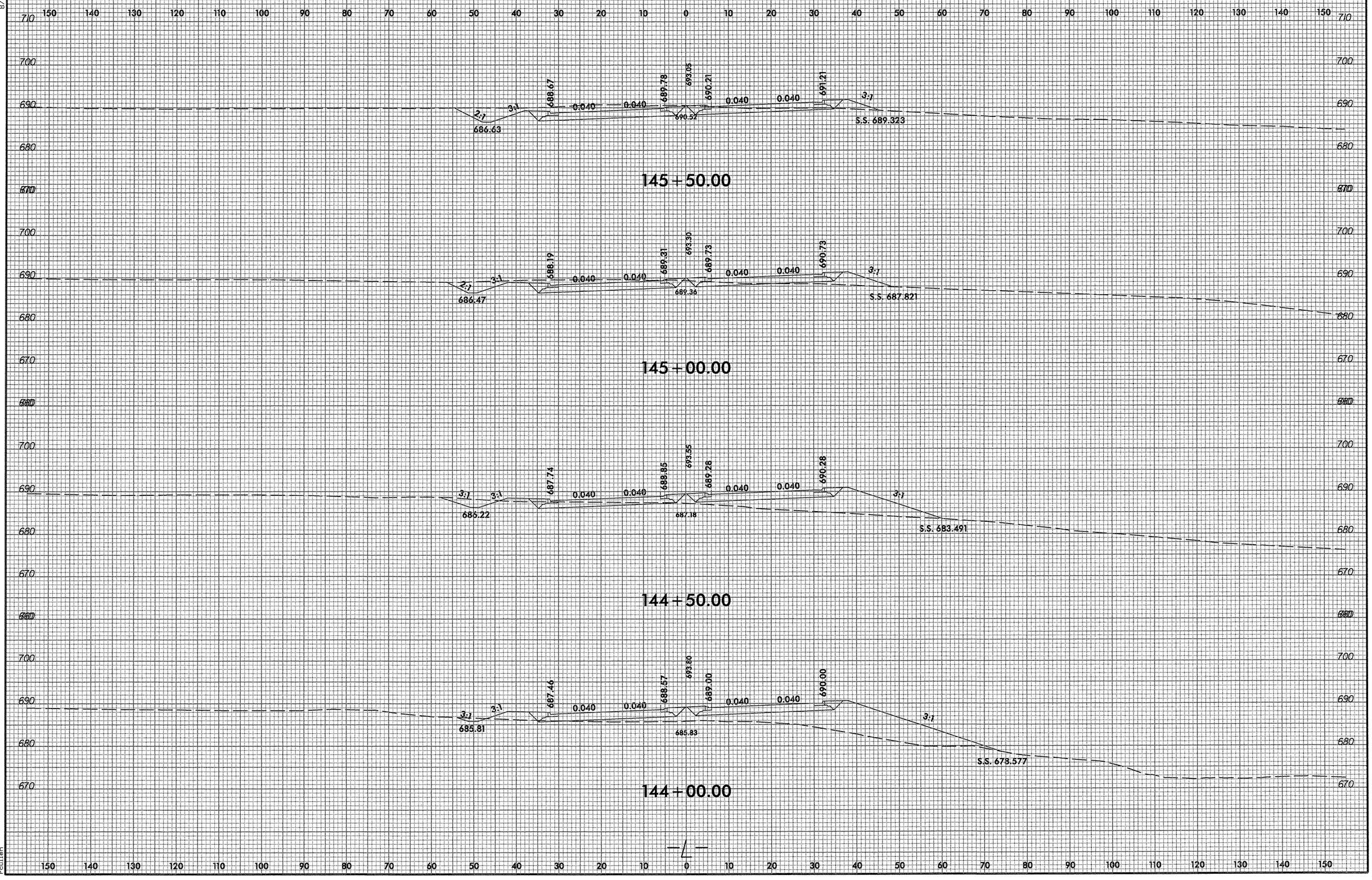
rcullen



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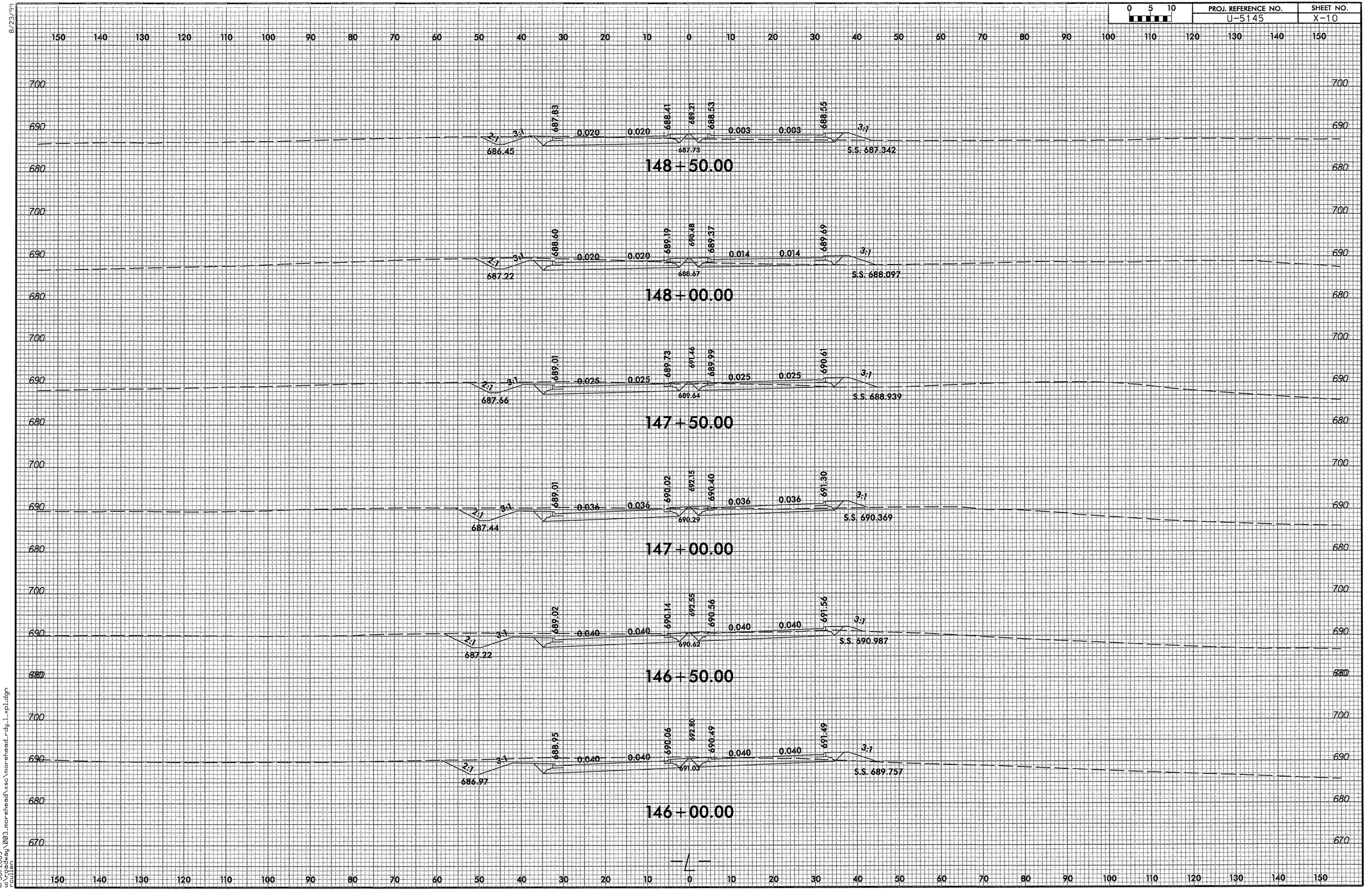

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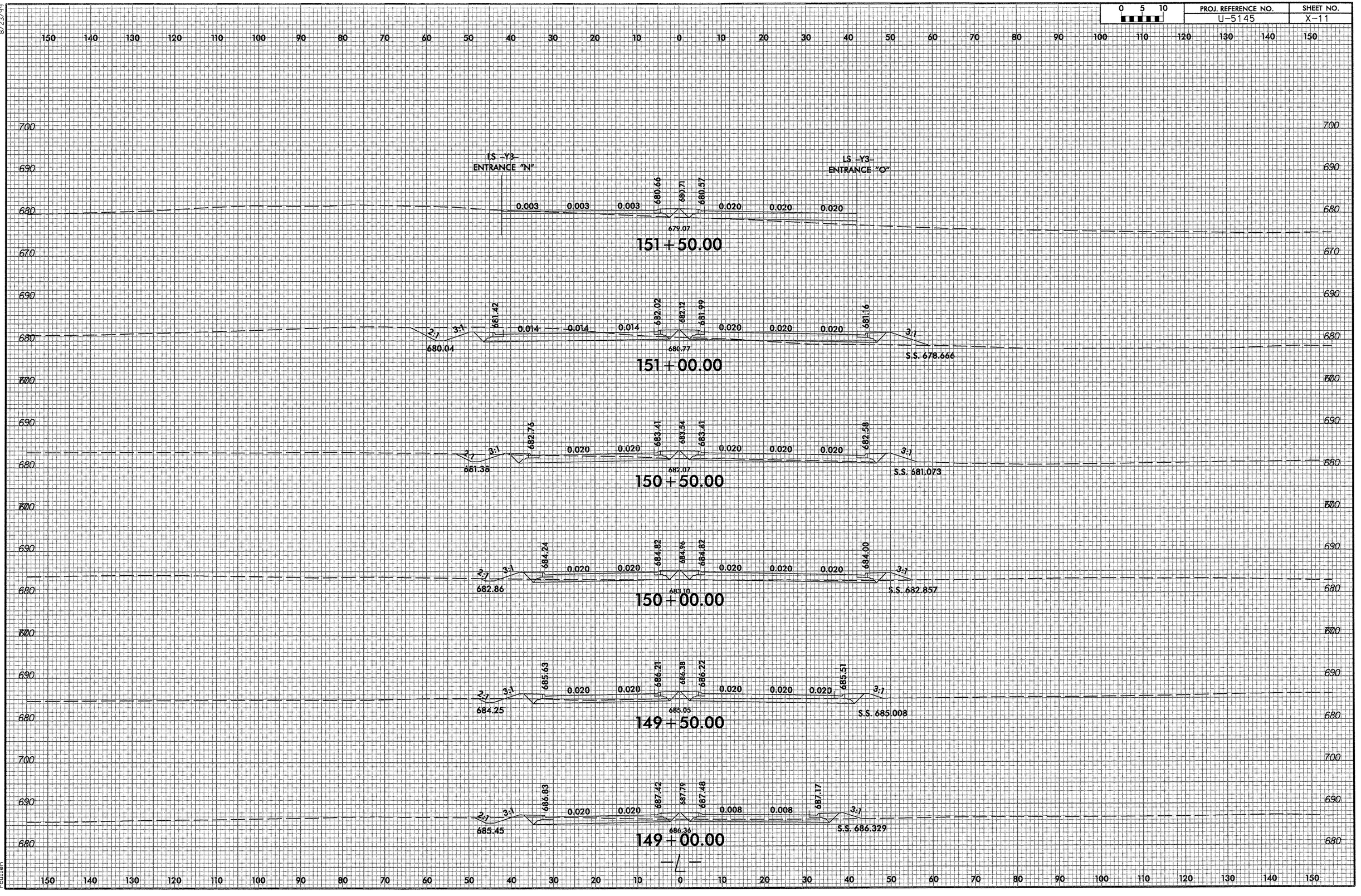

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	U-5145	X-12

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

690 680 670 660

WALL 2:1 0.040 0.040 674.37 0.040 0.040 2:1 673.50

154+00.00

690 680 670 660

S.S 675.319 3:1 676.68 0.040 0.040 675.31 0.040 0.040 673.95 S.S. 676.050 2:1 676.89

153+50.00

690 680 670

2:1 3:1 676.40 677.69 0.030 0.030 0.030 676.61 676.48 676.30 0.030 0.030 675.44 677.93

153+00.00

690 680 670

2:1 3:1 677.32 678.62 0.019 0.019 0.019 677.94 677.87 677.74 0.020 0.020 677.10 3:1 677.96

152+50.00

690 680 670

2:1 3:1 678.26 679.55 0.008 0.008 0.008 679.30 679.29 679.15 0.020 0.020 0.020 678.34 3:1 678.06

152+00.00

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

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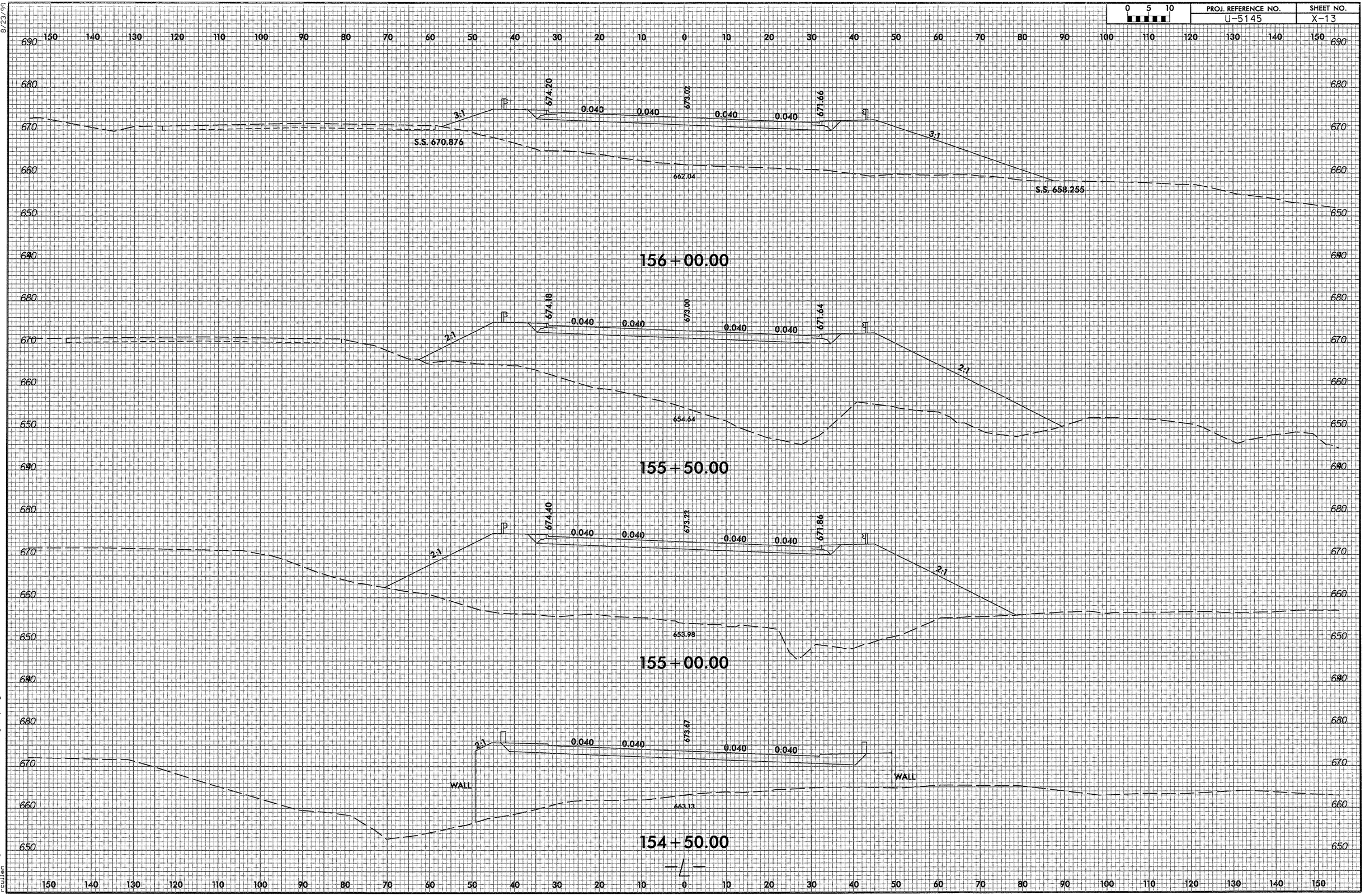

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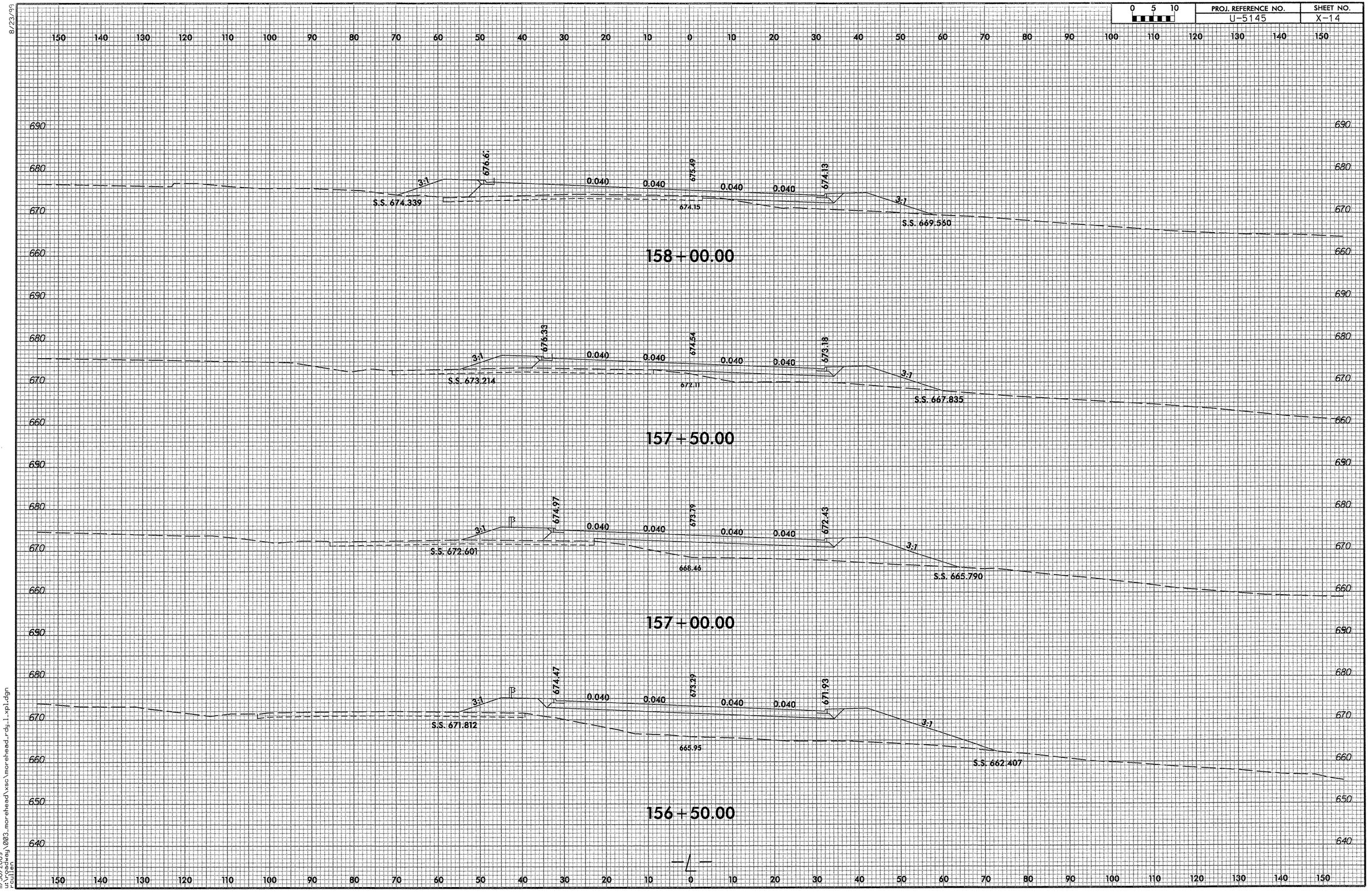
	U-5145	X-14



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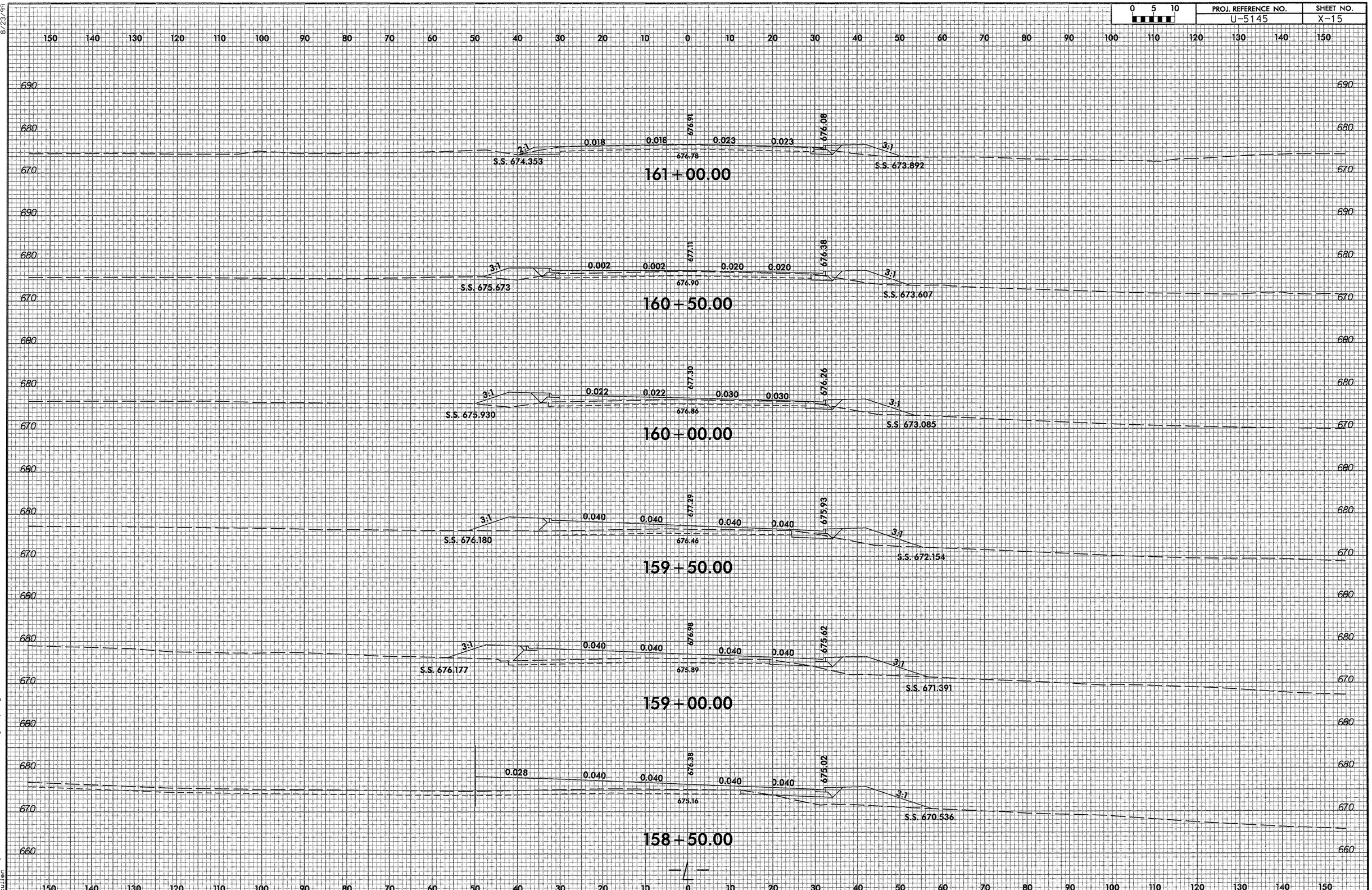

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rcullen

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	U-5145	X-16

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

680
670
660

674.23

163+00.00

674.626
3:1
675.14
S.S. 674.199

162+50.00

676.240
3:1
675.88
S.S. 674.934

162+00.00

675.172
3:1
676.48
S.S. 674.543

161+50.00

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

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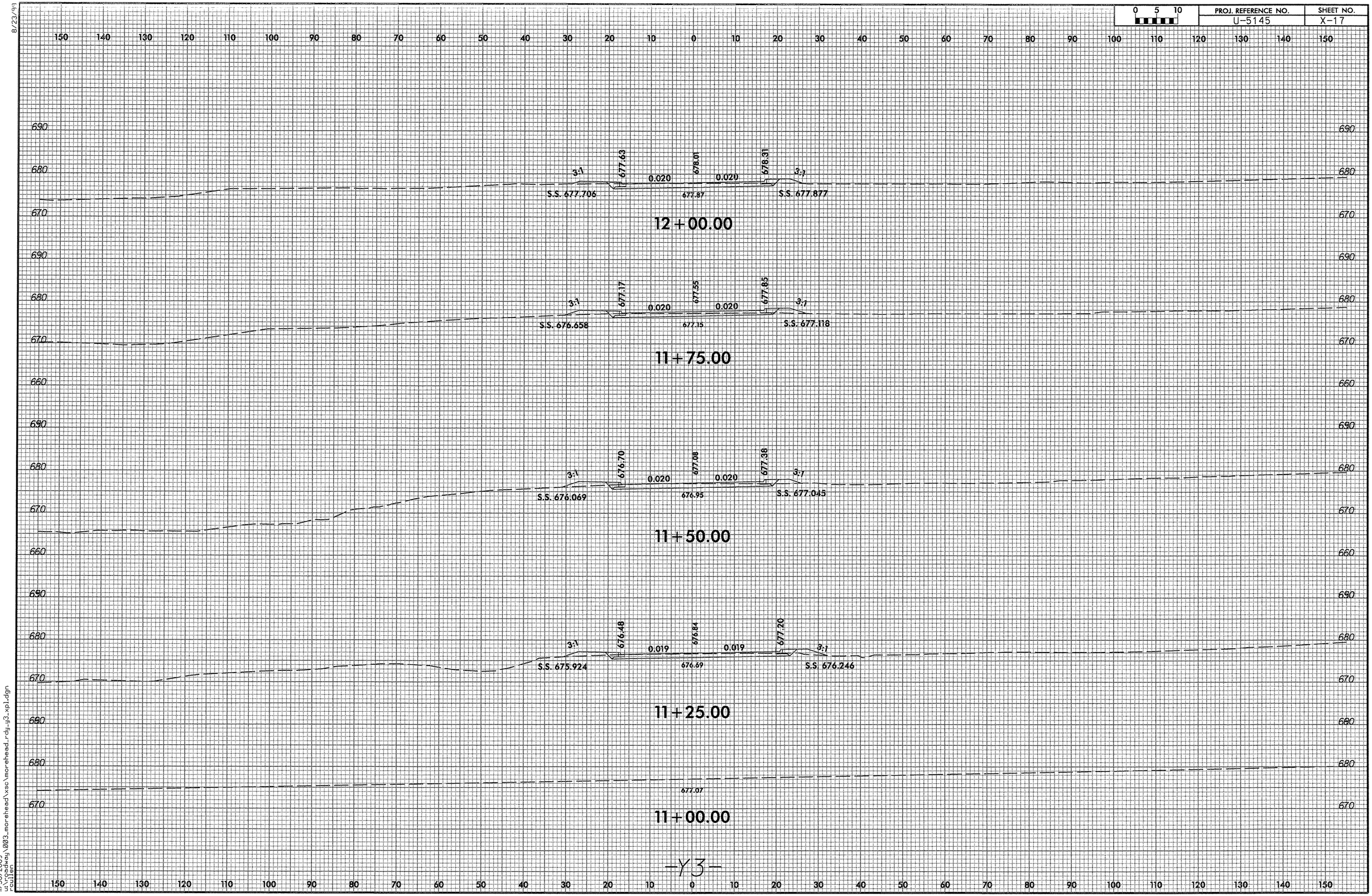

-Y3-

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raulten

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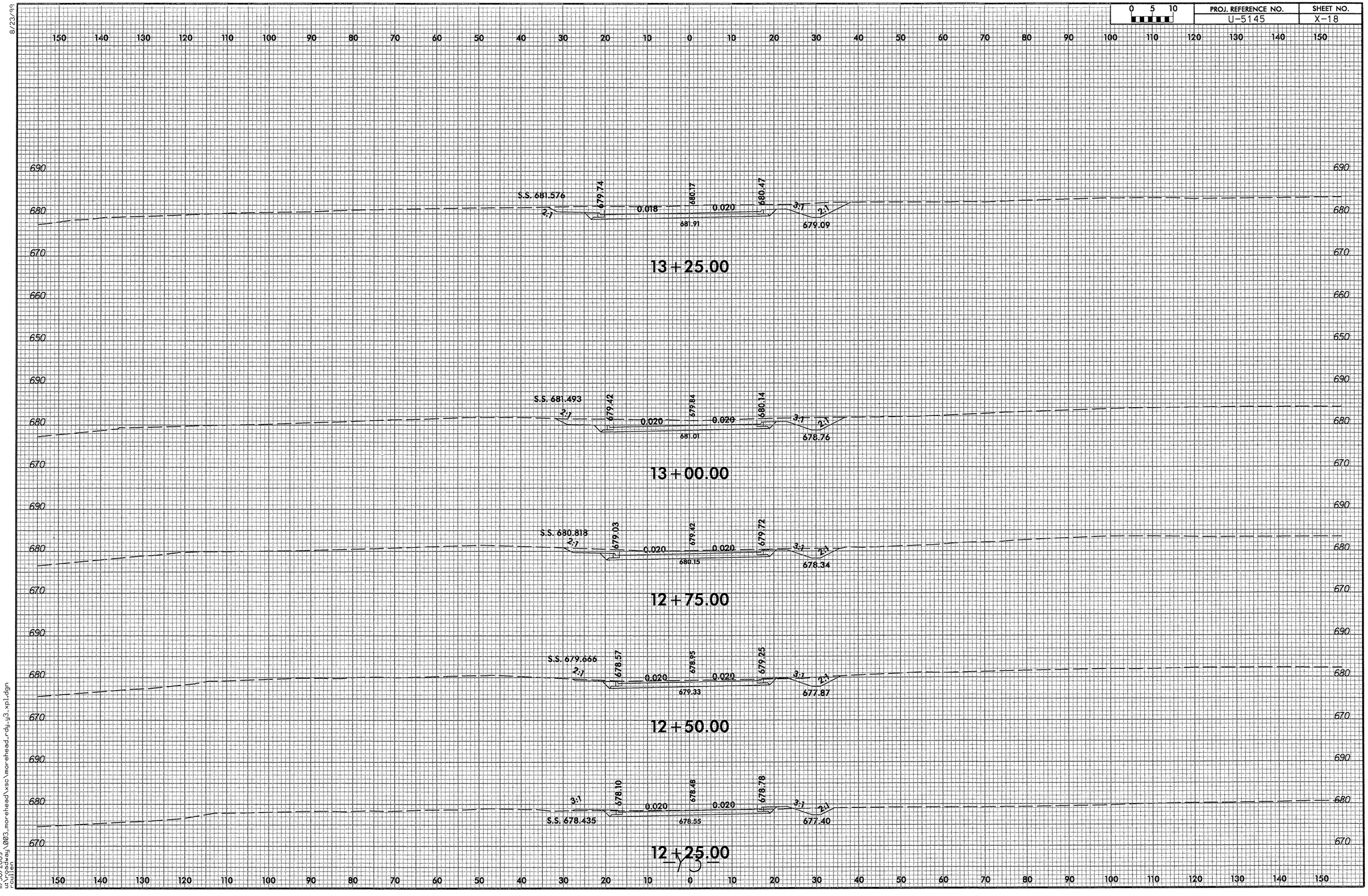

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	U-5145	X-19

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

690 680 670 660

678.94

14+25.00

690 680 670 660

679.91

14+00.00

700 690 680 670 660

LS -L- MOREHEAD ROAD

LS -L- MOREHEAD ROAD

680.57

0.014

0.019

680.92

13+75.00

690 680 670 660

S.S. 680.832

679.91

680.42

0.016

0.019

680.81

3:1

2:1

681.93

679.43

13+50.00

650

-Y3-

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

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8/23/91

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	U-5145	X-20

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

690 680 670 660

3:1 675.77 0.022 676.19 0.021 676.51 3:1
S.S. 674.368 675.38 S.S. 676.914

15+50.00

3:1 677.15 0.027 677.65 0.023 678.08 3:1
S.S. 674.622 675.60 S.S. 677.186

15+25.00

3.035:1 678.19 0.032 678.80 0.025 679.40 3.096:1
S.S. 675.170 676.03 S.S. 677.709

15+00.00

3.957:1 678.52 0.037 679.64 0.027 680.64 4.147:1
S.S. 675.751 676.62 S.S. 679.023

14+75.00

677.75

14+50.00

-Y3-

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8/23/95

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	U-5145	X-21

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

680 / 670

S.S. 670.912 — 2:1 — 665.44 — 0.020 — 670.99 — 665.82 — 0.020 — 666.12 — 2:1 — S.S. 672.466

17+00.00

S.S. 671.350 — 2:1 — 667.17 — 0.020 — 672.27 — 667.55 — 0.020 — 667.85 — 2:1 — S.S. 673.510

16+75.00

S.S. 672.542 — 2:1 — 668.90 — 0.020 — 673.48 — 669.28 — 0.020 — 669.58 — 2:1 — S.S. 674.472

16+50.00

S.S. 673.251 — 2:1 — 670.64 — 0.020 — 674.19 — 671.02 — 0.020 — 671.32 — 2:1 — S.S. 676.054

16+25.00

S.S. 673.837 — 2:1 — 672.37 — 0.020 — 674.91 — 672.75 — 0.020 — 673.05 — 2:1 — S.S. 677.246

16+00.00

S.S. 674.253 — 3:1 — 674.10 — 0.020 — 675.39 — 674.48 — 0.029 — 674.78 — 2:1 — S.S. 677.059

15+75.00

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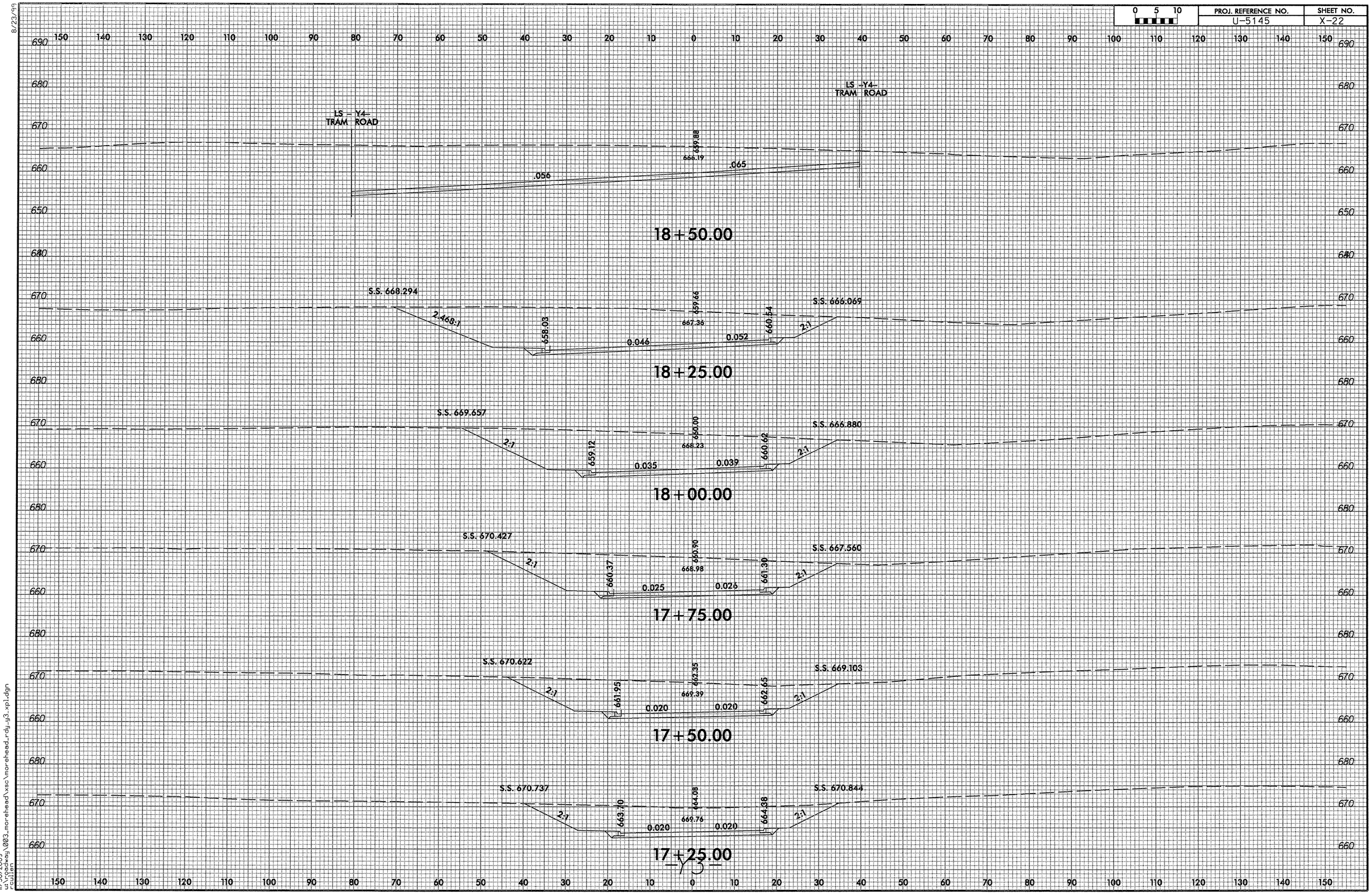

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0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	U-5145	X-23

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

690 680 670

S.S. 675.822 2:1 672.86 0.016 672.71 0.016 672.47 S.S. 674.714 2:1 675.19

11+25.00

S.S. 676.264 2:1 674.25 0.005 674.23 0.005 674.13 S.S. 675.219 2:1 675.67

11+00.00

S.S. 676.701 2:1 675.35 0.006 675.47 0.006 675.50 3:1 676.14 S.S. 675.678

10+75.00

S.S. 677.125 2:1 676.24 0.012 676.42 0.002 676.41 3:1 676.62 S.S. 676.031

10+50.00

S.S. 677.383 676.71 0.015 677.10 0.010 676.82 3:1 677.10 S.S. 676.167

10+25.00

677.56

10+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

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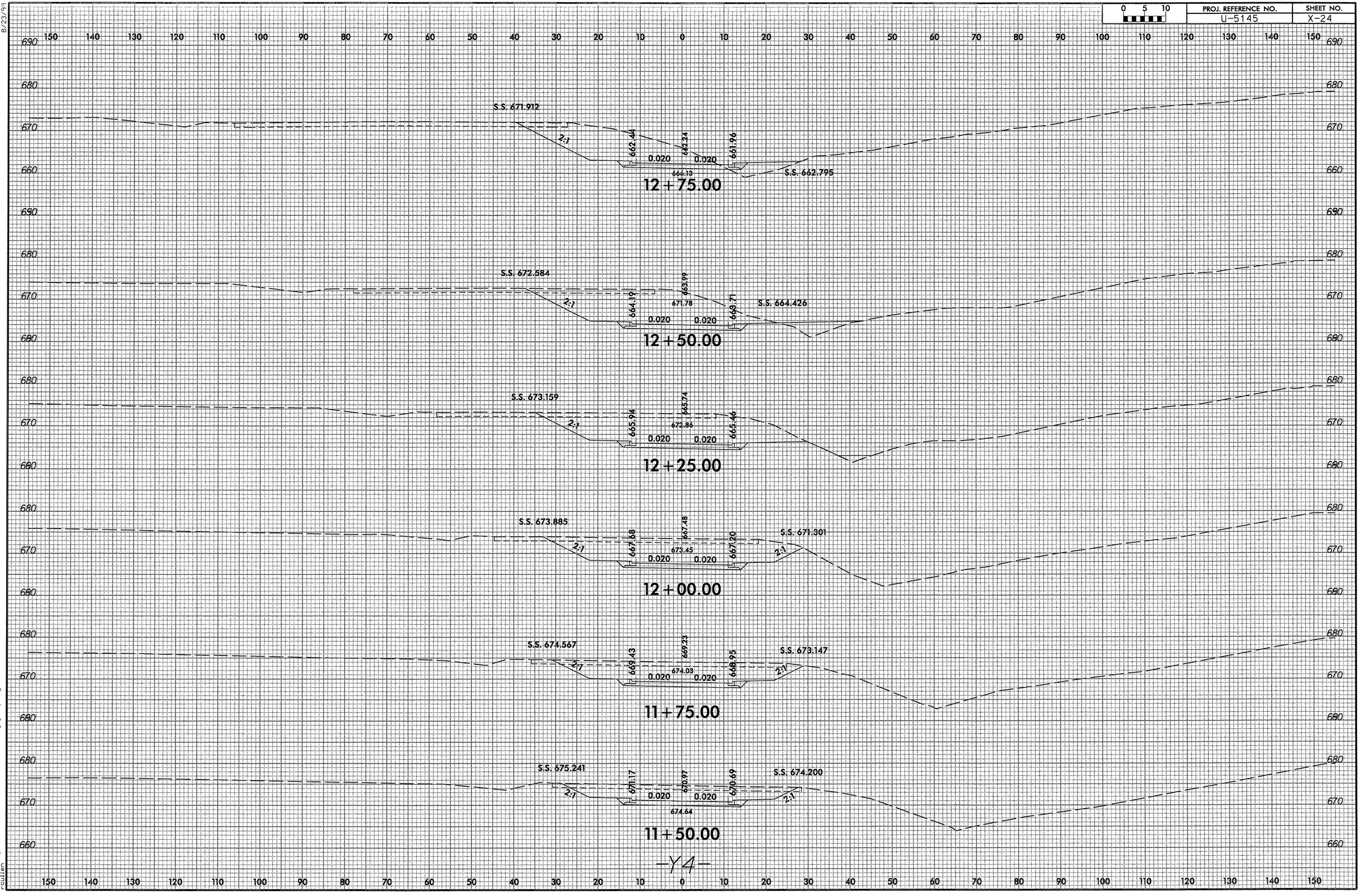
0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	U-5145	X-24



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8/23/94

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	U-5145	X-25

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

690 680 670 660 650

APPROX. END BENT 2 — 656.95 — 656.75 — 665.29 — 0.020 — 0.020 — 656.47 — APPROX. END BENT 1

13+75.00

APPROX. WING WALL — 658.00 — 657.80 — 657.52 — 0.020 — 0.020 — 662.05 — 2:1 — APPROX. WING WALL

13+50.00

S.S. 666.172

S.S. 660.200 — 659.25 — 659.05 — 658.77 — 0.020 — 0.020 — 2:1 — 658.98

13+25.00

S.S. 667.340 — 2:1 — 660.74 — 660.54 — 660.26 — 0.020 — 0.020 — S.S. 662.048 — 2:1 — 657.37

13+00.00

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8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	U-5145	X-26

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

690 680 670 660 650 640

APPROX. END BENT 2 — 659.95 — 0.020 — 653.75 — 0.020 — 653.47 — APPROX. END BENT 1

668.64

14+50.00

690 680 670 660 650 640

APPROX. END BENT 2 — 654.95 — 0.020 — 654.75 — 0.020 — 654.47 — APPROX. END BENT 1

668.57

14+25.00

690 680 670 660 650 640

APPROX. END BENT 2 — 655.95 — 0.020 — 655.75 — 0.020 — 655.47 — APPROX. END BENT 1

667.68

14+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

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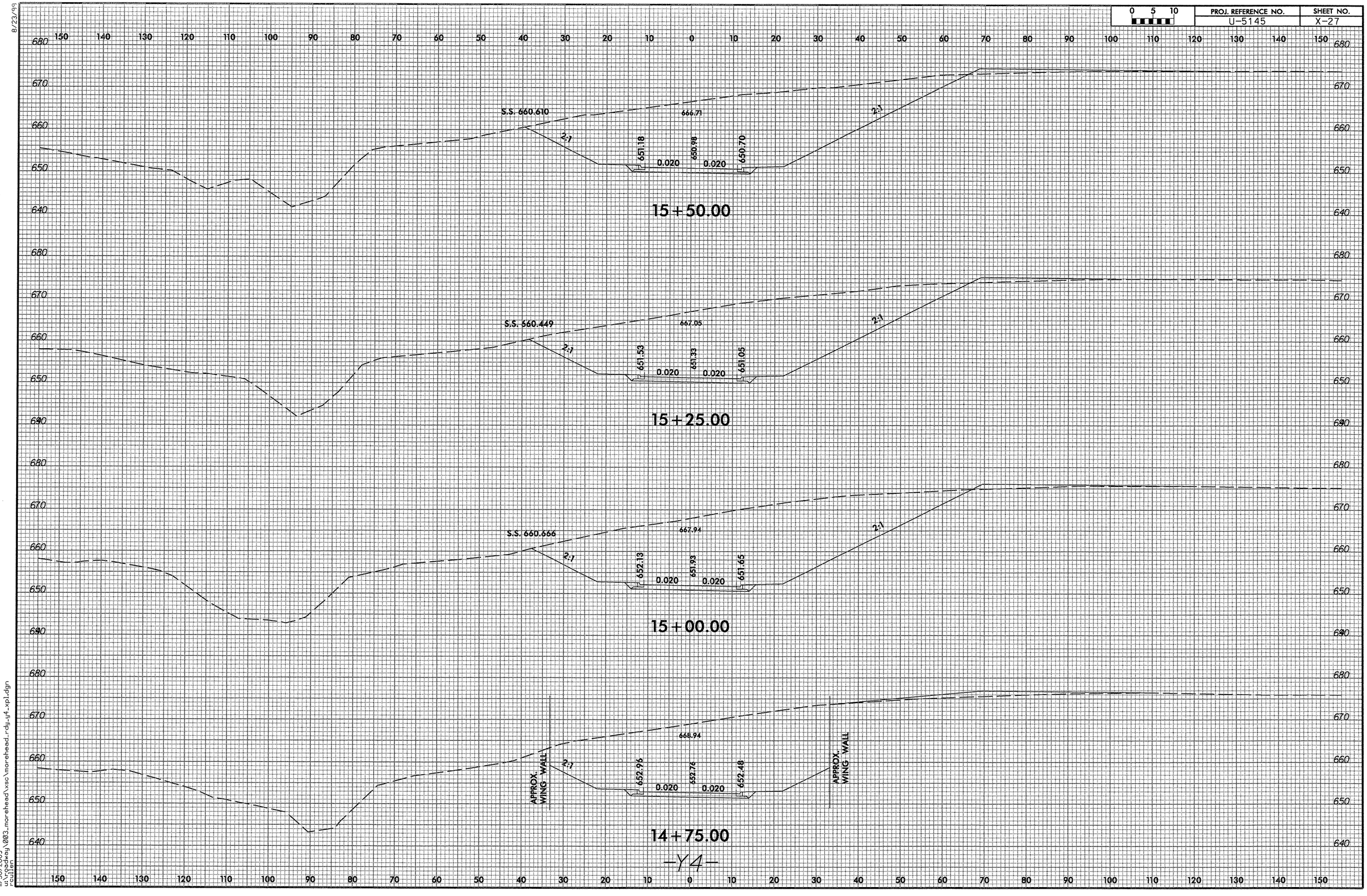
0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	U-5145	X-27



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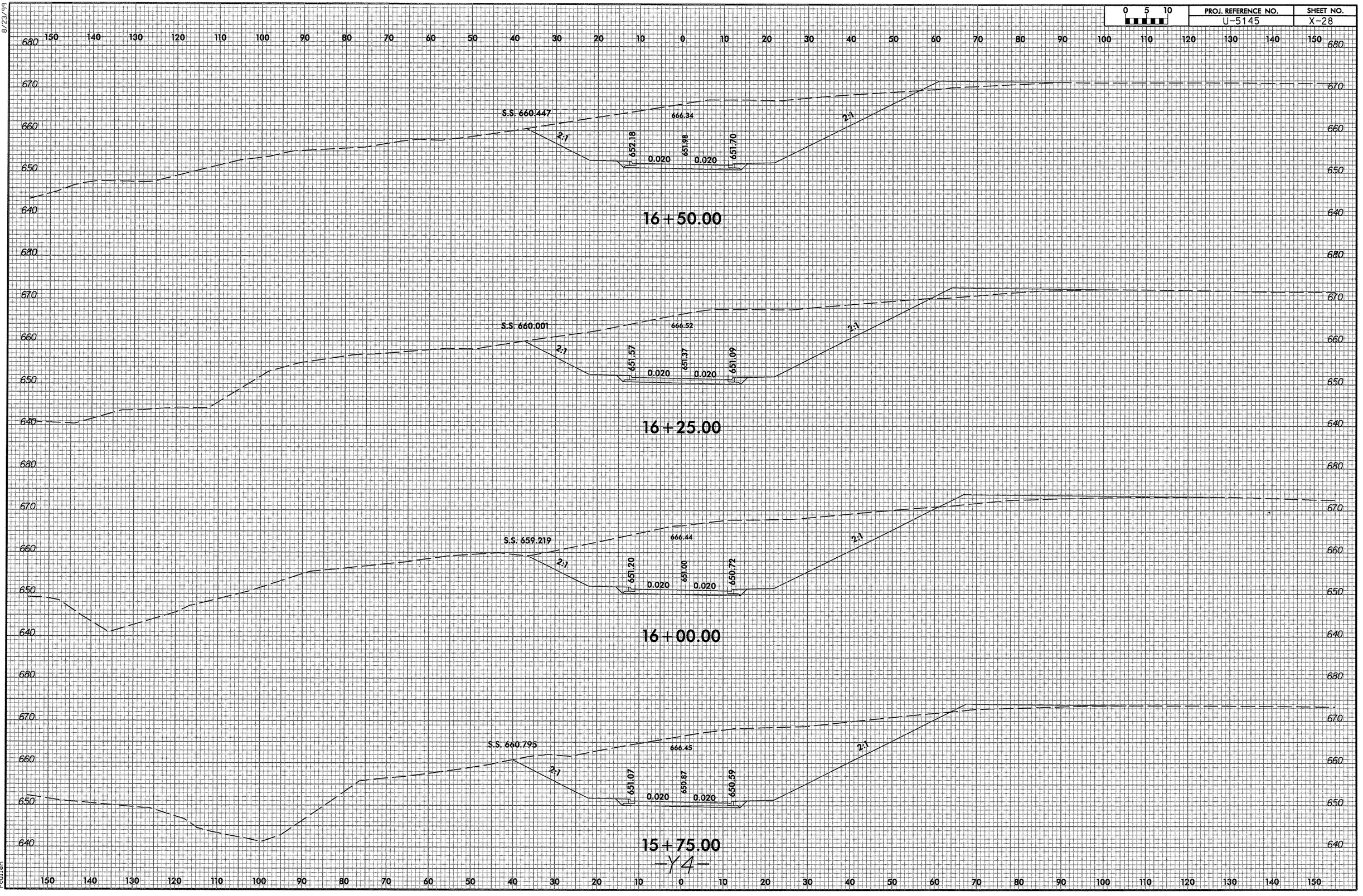
raulen

8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	U-5145	X-28



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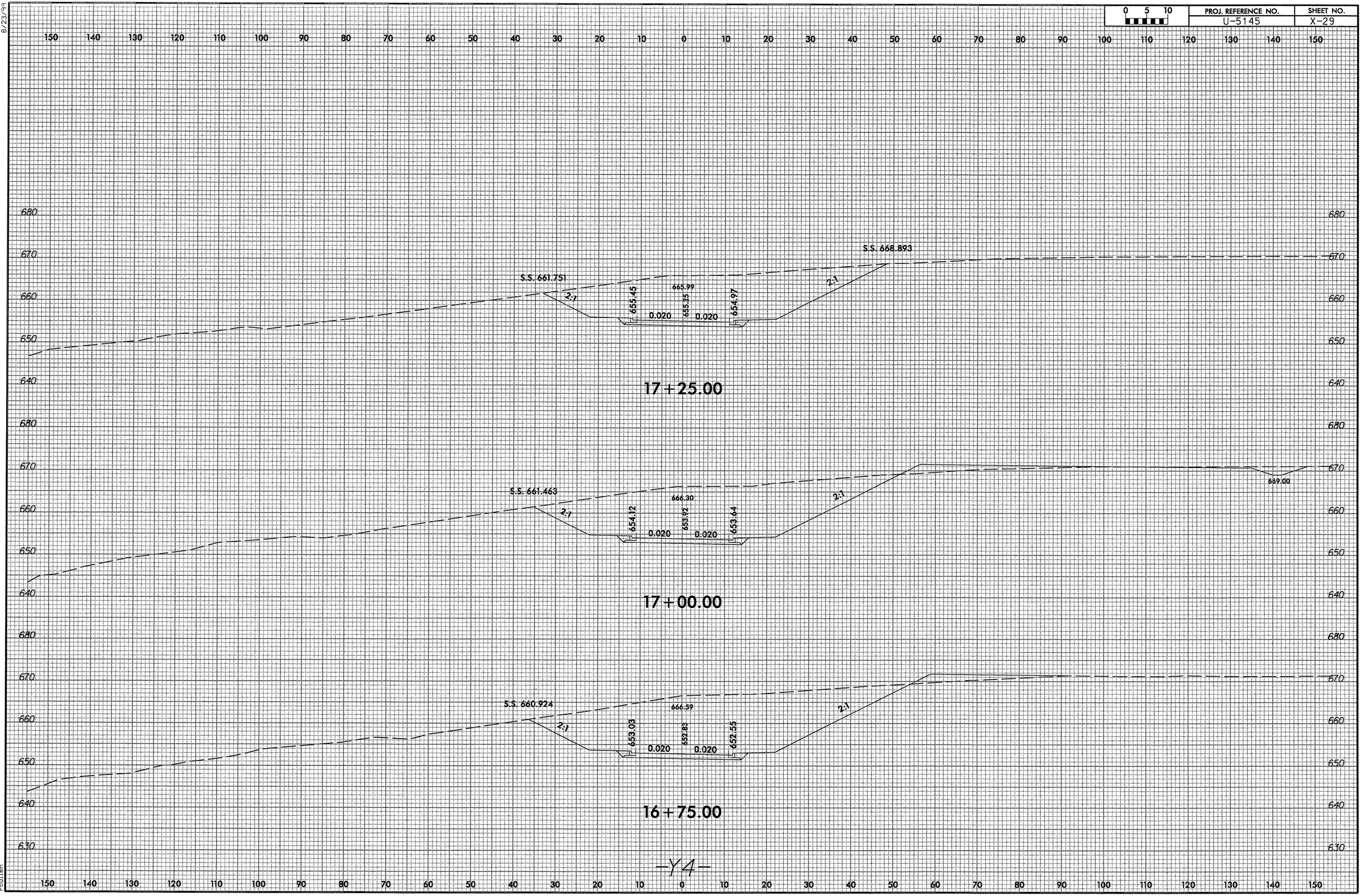
8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	U-5145	X-29



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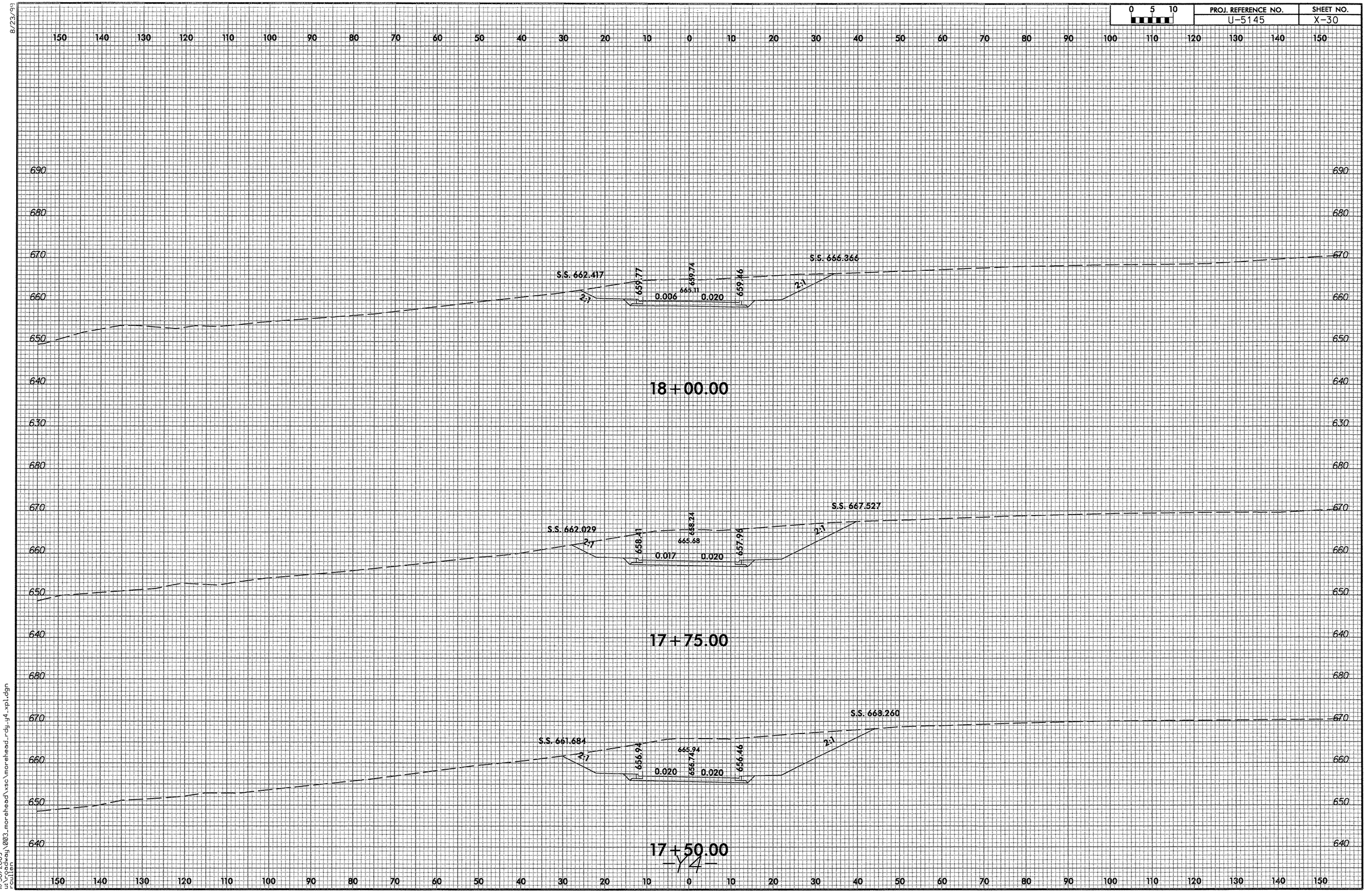
rculler

8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	U-5145	X-30



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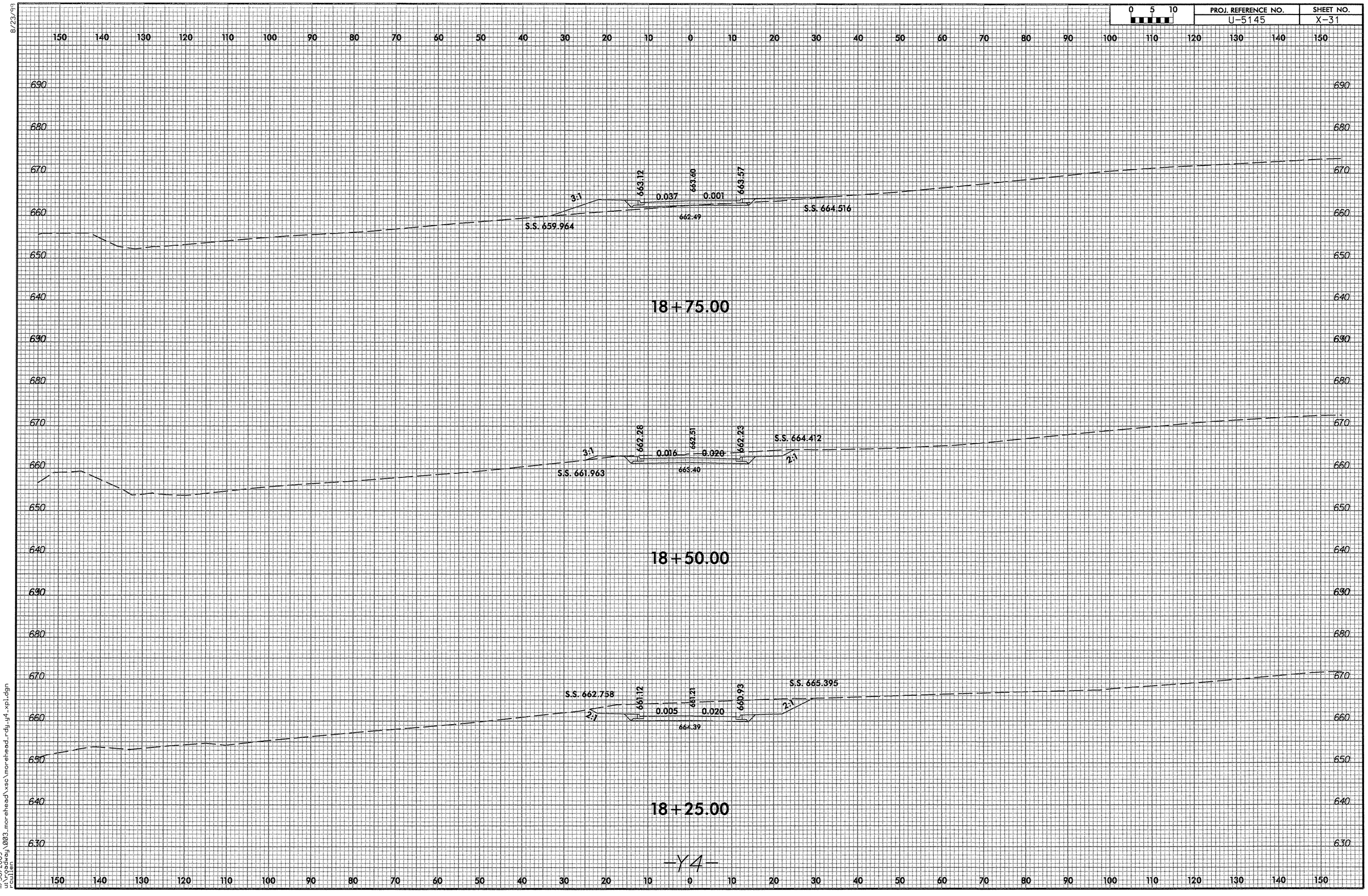
0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	U-5145	X-31



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8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	U-5145	X-32

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

690 680 670 660 650 640

665.50

19+42.16

690 680 670 660 650 640

663.26 665.15 666.39

S.S. 667.816

4.283:1 0.088 0.066 2.72A:1

664.91

S.S. 658.825

19+25.00

690 680 670 660 650 640

663.69 664.48 664.83

3:1 0.052 0.033

663.28

S.S. 665.714

S.S. 659.744

19+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

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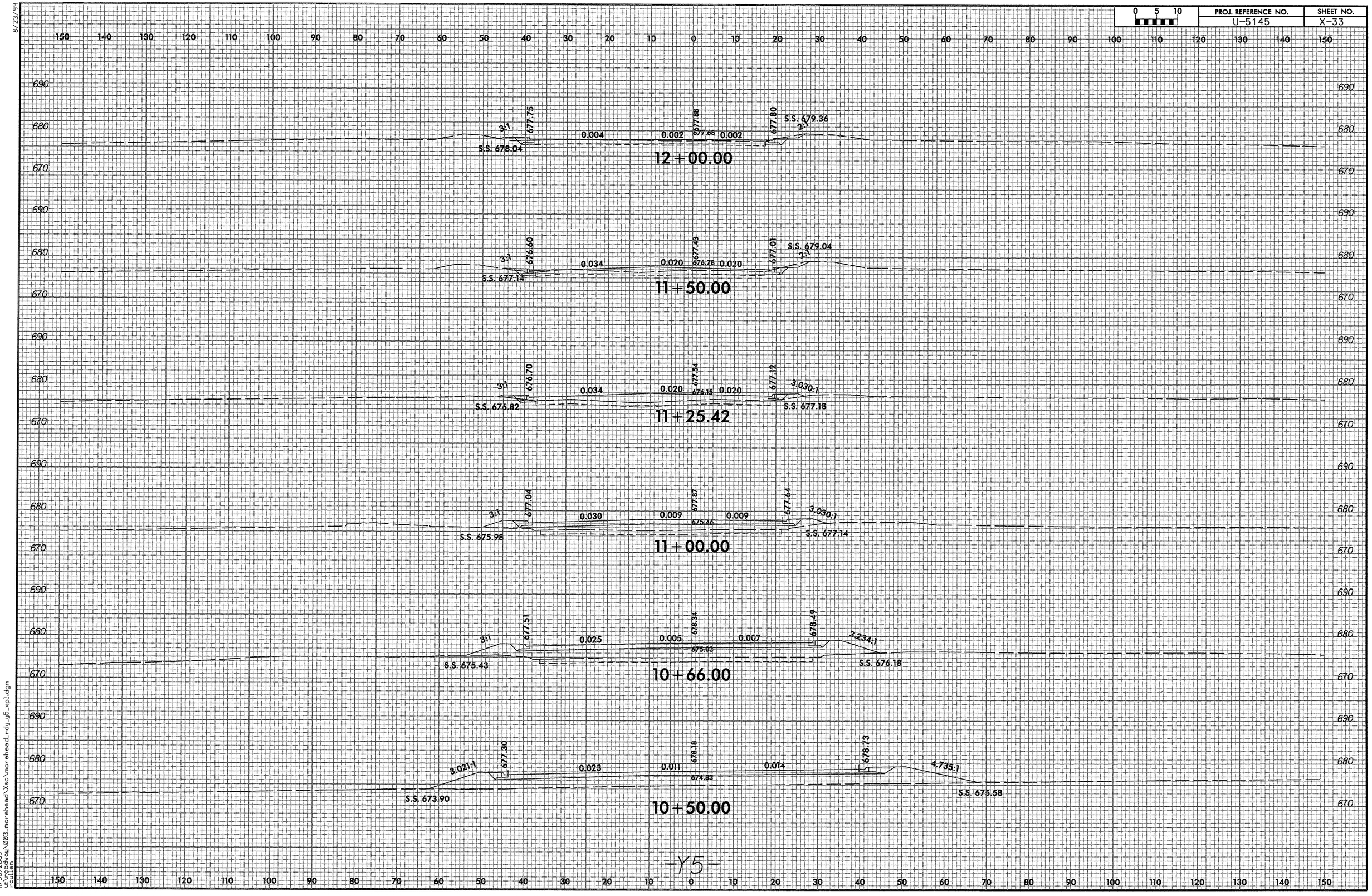
0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	U-5145	X-33



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8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	U-5145	X-34

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

690
680
670

678.65
13+50.00

678.92
13+00.00

678.41
12+50.00

-Y5-

11/30/2009
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rcullen

8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	U-5145	X-35

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

720 710 700 690 680

INTERNAL ROAD
691.23
690.87
3:1
0.020
0.017
S.S. 690.45
690.26
12+25.00

710 700 690 680

INTERNAL ROAD
691.46
INTERNAL ROAD
0.020
0.020
690.95
12+00.00

700 690 680

INTERNAL ROAD
691.68
INTERNAL ROAD
0.016
0.022
691.49
11+75.00

700 690 680

691.90
EXIST
EXIST
691.76
11+50.00

700 690 680

692.08
11+25.00

-Y6-

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

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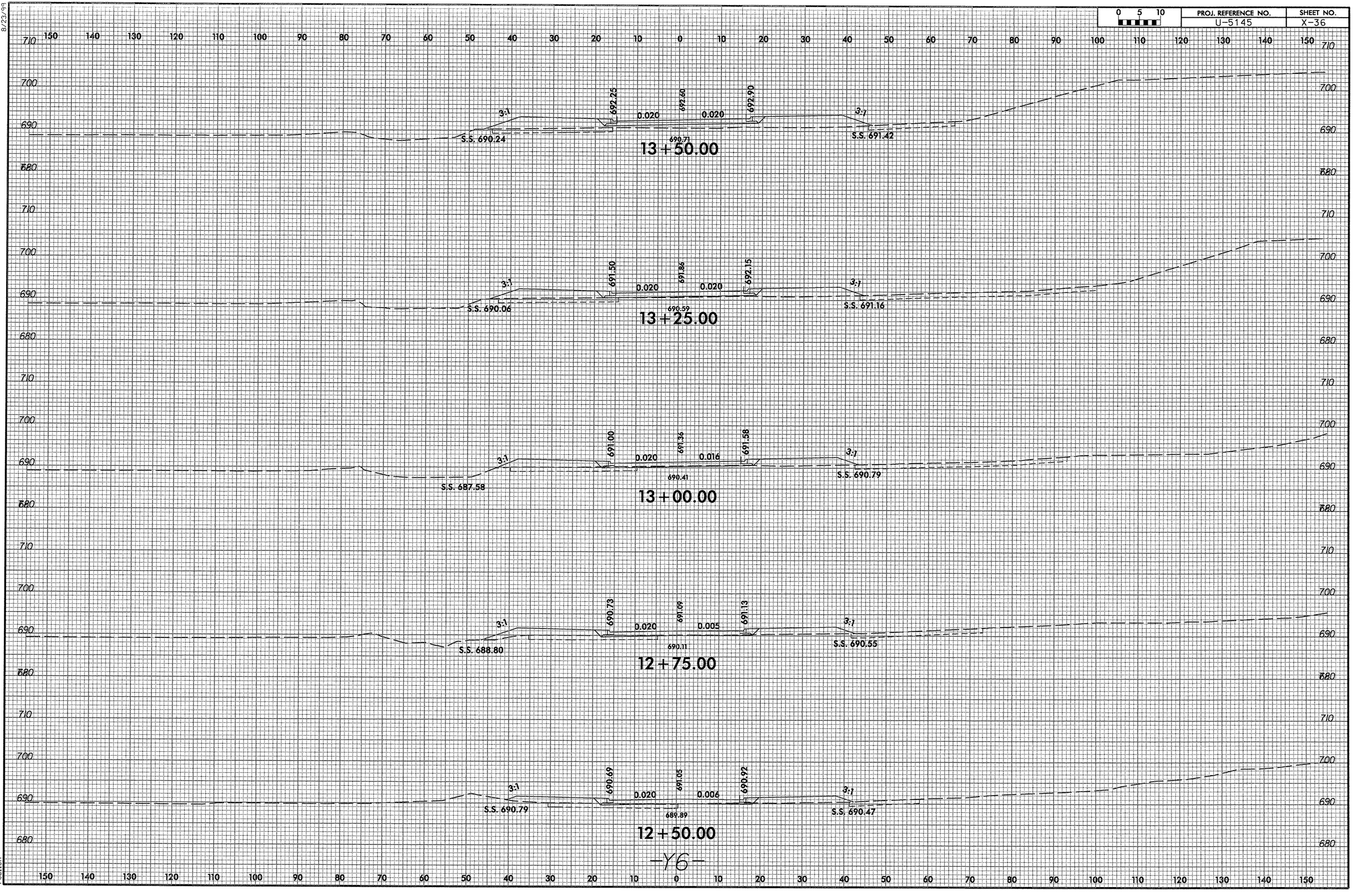
rcullen



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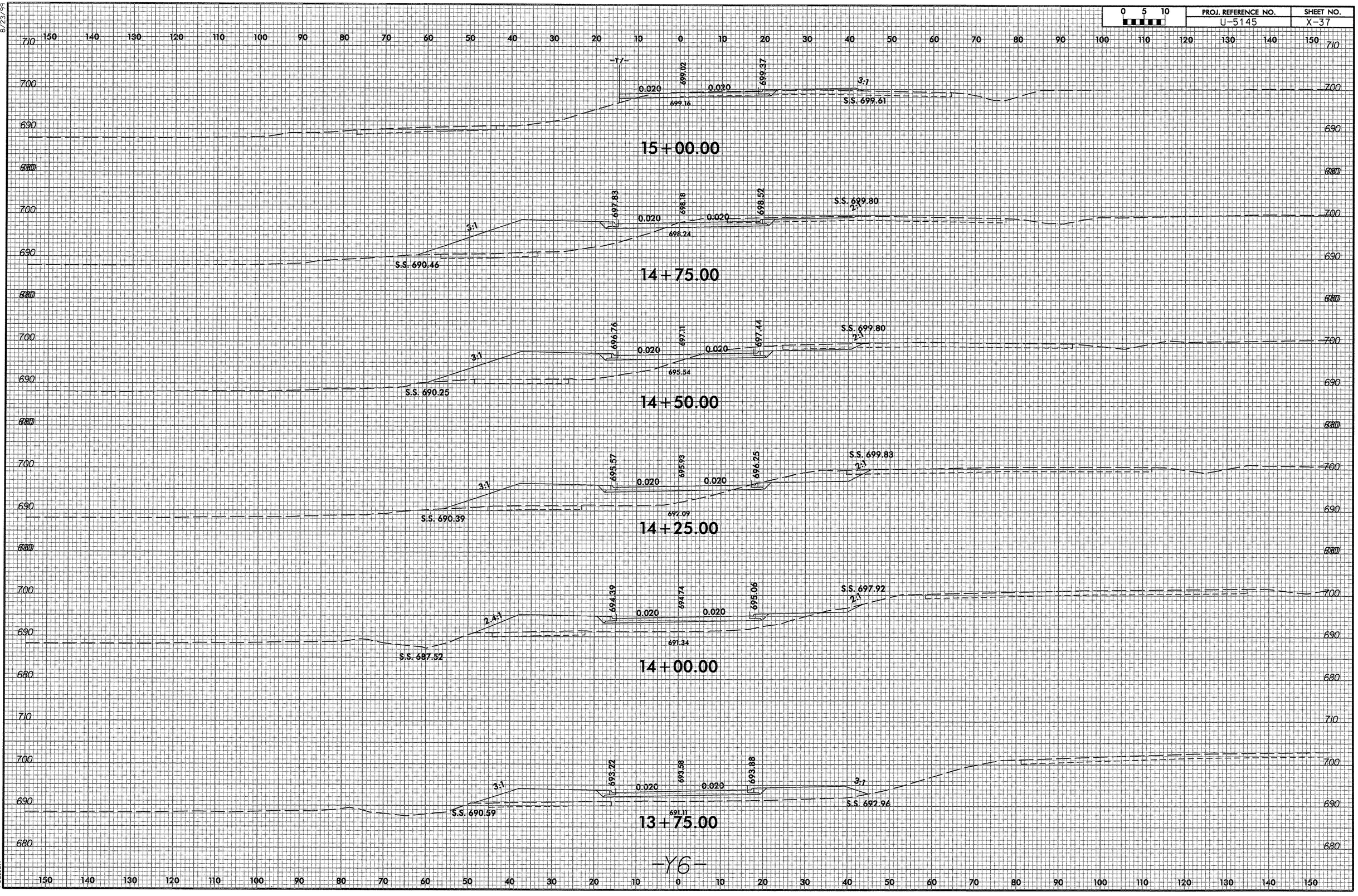
0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	U-5145	X-37



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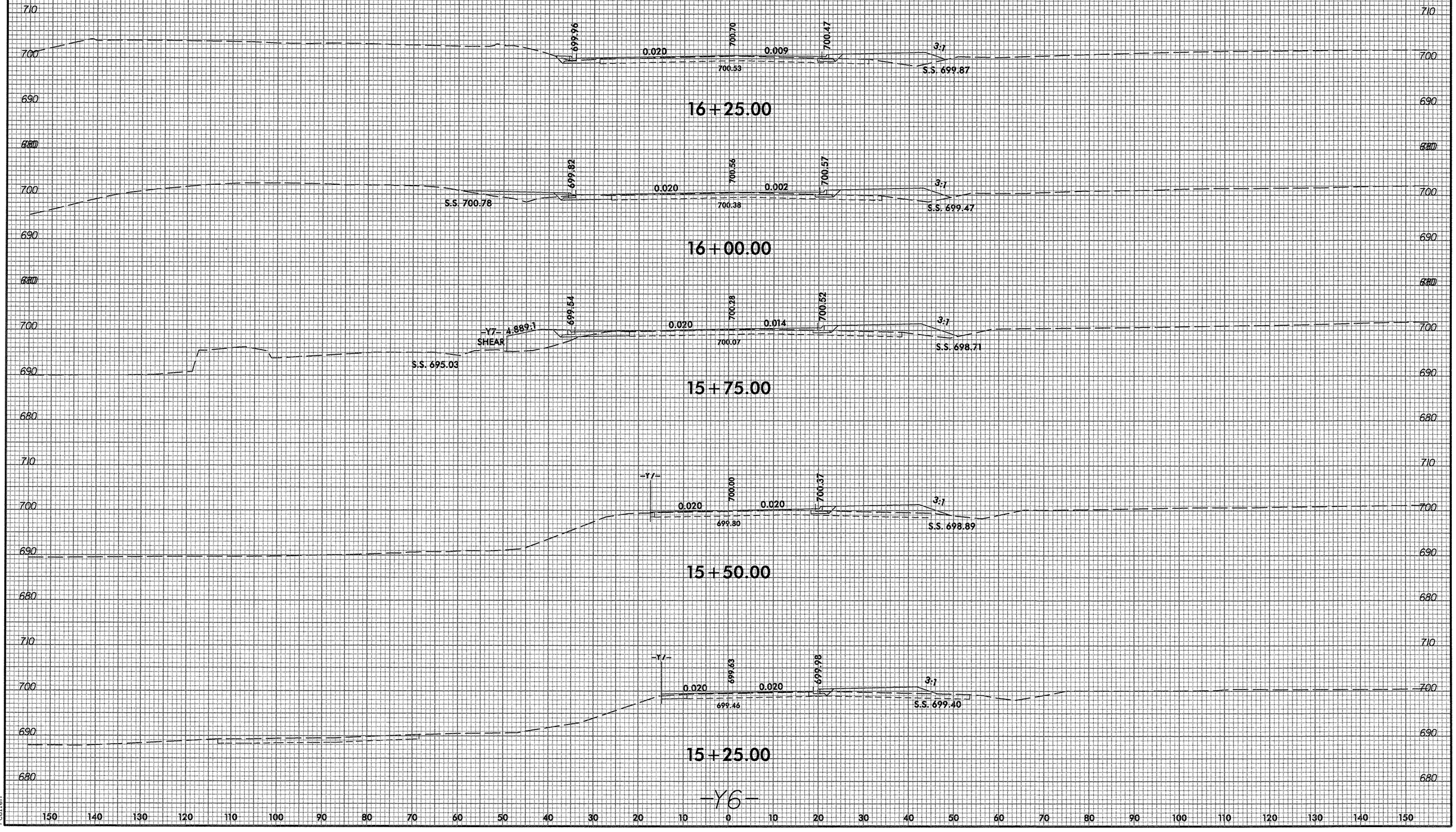
rculler

8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	U-5145	X-38

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



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rculler

8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	U-5145	X-39

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

710
700
690
680

700.40

16+75.00

699.90 700.70 700.23

0.021 0.020 3:1

700.53 S.S. 699.99

16+50.00

-Y6-

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

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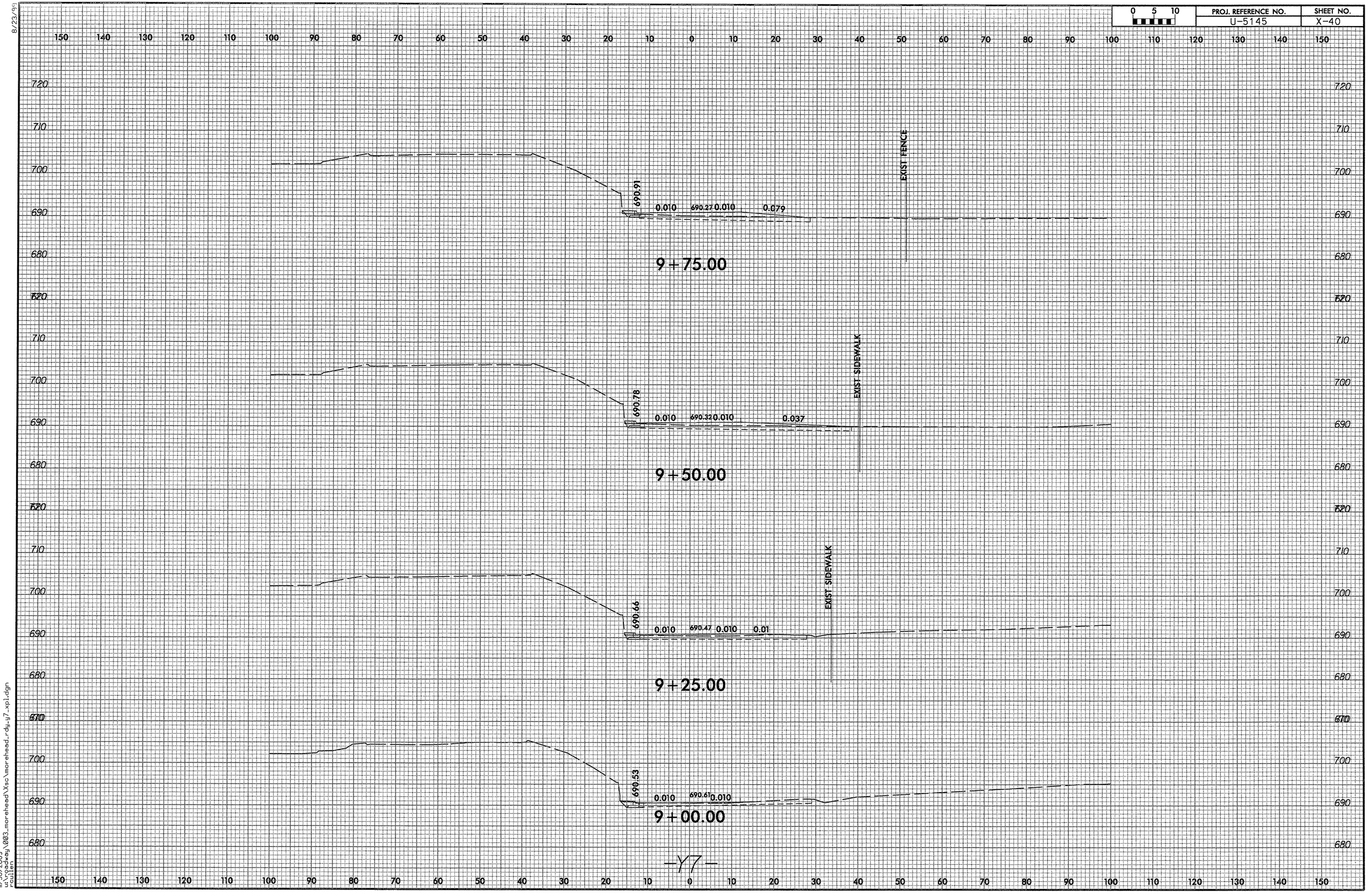
0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	U-5145	X-40



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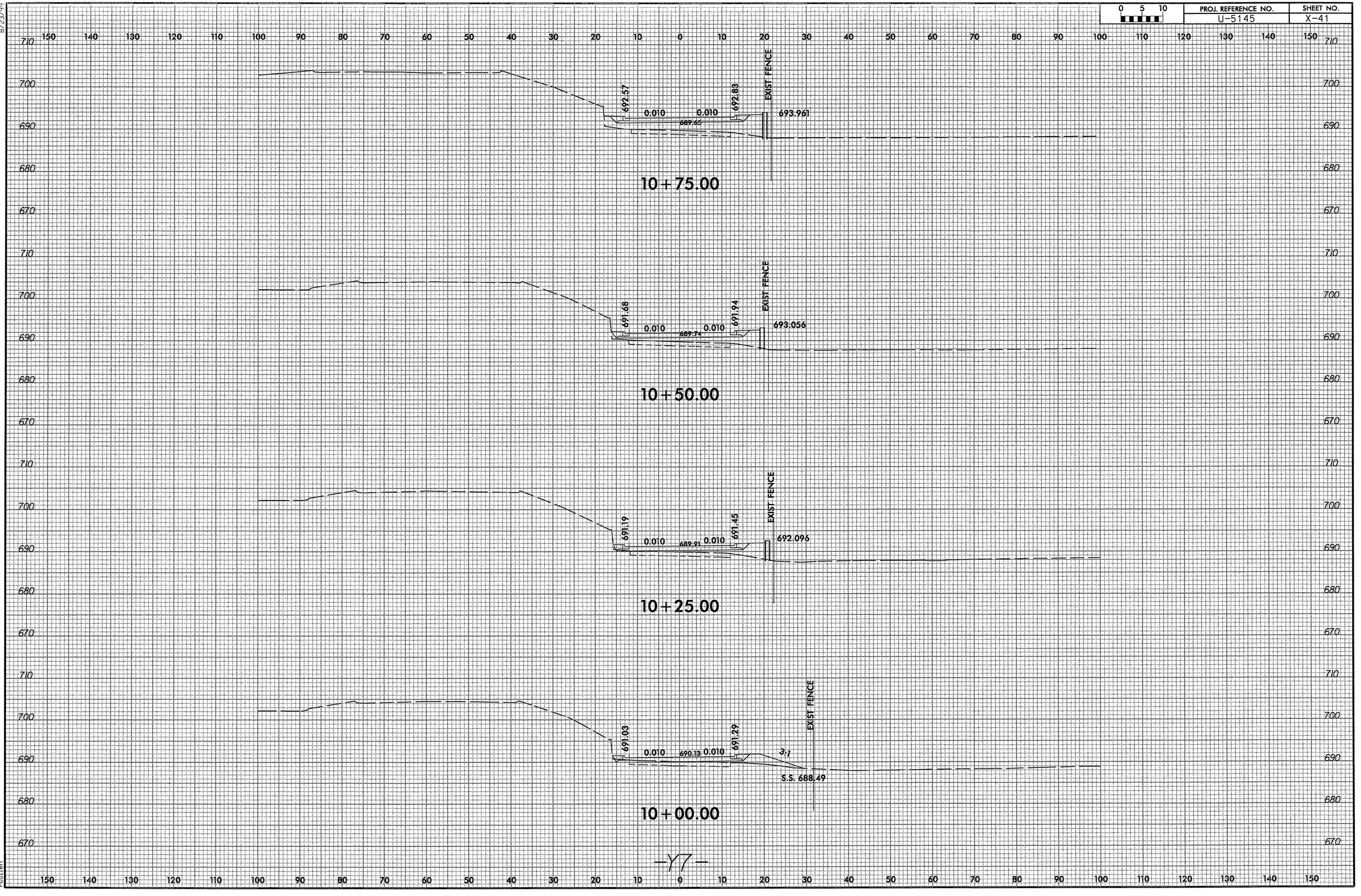
	U-5145	X-41



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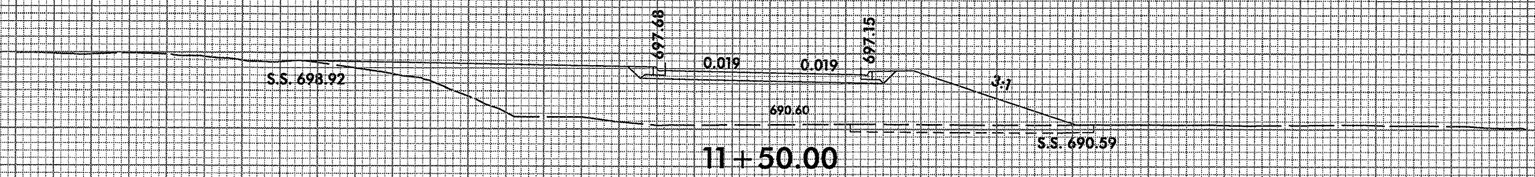
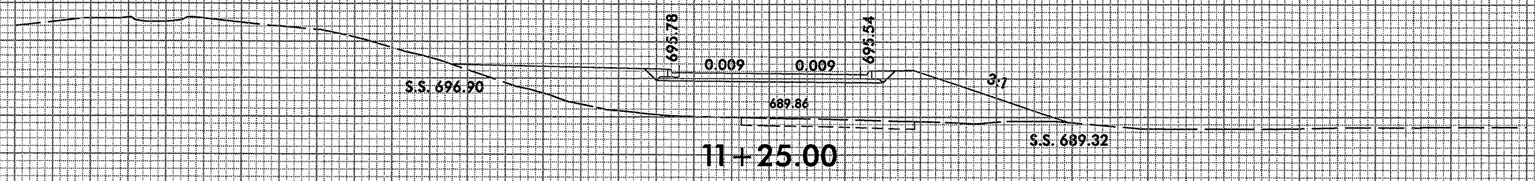
0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	U-5145	X-42

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

710
700
690
680
670



11+50.00



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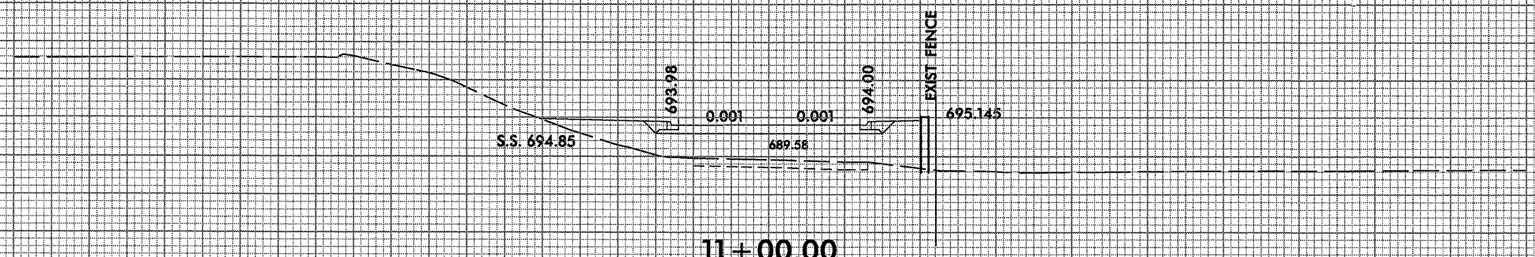

11+00.00

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