PROJECT REFERENCE NO.	SHEET NO.
U-4439A&B	X-1

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

INDEX OF CROSS SECTION SHEETS

	EARTHWORK VOLUMES	X-2 TO X-3
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-Y1-	US 17	X-31 TO X-39
-Y2-	ROBERT WILSON BLVD	X-40 TO X-41
-Y3-	'A' STREET	X-42 TO X-43
-Y4-	SCHMIDT ROAD	X-44 TO X-45

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PROJ. REFERENCE NO.	SHEET NO.
U-4439A&B	X-2

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

CROSS-SECTION SUMMARY

NOTE: EMBANKMENT COLUMN INCLUDES BACKFILL FOR UNDERCUT

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

Station	Left	Left	Right	Right
L	Uncl. Exc. (cu. yd.)	Embt. (cu. yd.)	Uncl. Exc. (cu. yd.)	Embt. (cu. yd.)
11+50.00000	0	0	0	0
12+00.00000	1	2	24	1
12+50.00000	1	22	12	18
13+00.00000	0	56	19	42
13+50.00000	0	70	23	73
14+00.00000	0	80	18	94
14+50.00000	0	94	25	104
15+00.00000	0	96	17	123
15+50.00000	0	101	11	136
16+00.00000	1	132	11	135
16+50.00000	8	108	10	125
17+00.00000	10	53	16	90
17+50.00000	7	47	19	49
18+00.00000	11	38	18	35
18+50.00000	14	30	16	32
19+00.00000	12	29	14	31
19+50.00000	12	29	16	27
20+00.00000	14	27	14	27
20+50.00000	11	31	11	28
21+00.00000	12	40	10	27
21+50.00000	15	40	10	26
22+00.00000	15	34	11	24
22+50.00000	16	29	21	21
23+00.00000	18	29	39	23
23+50.00000	16	29	56	22
24+00.00000	18	29	52	22
24+50.00000	15	34	29	30
25+00.00000	9	45	15	39
25+50.00000	8	57	10	44
26+00.00000	10	64	8	44
26+50.00000	13	67	9	43
27+00.00000	15	79	19	55
27+50.00000	12	76	31	56
28+00.00000	7	61	69	22
28+50.00000	2	67	101	2
29+00.00000	0	66	66	5
29+50.00000	0	63	28	6
30+00.00000	1	67	21	7
30+50.00000	7	68	10	27
31+00.00000	20	56	1	72
31+50.00000	37	35	0	49
32+00.00000	45	34	0	0
32+50.00000	31	48	0	32
33+00.00000	12	68	0	74
33+50.00000	8	74	0	86
34+00.00000	16	55	0	88
34+50.00000	27	30	0	79
35+00.00000	33	29	0	62
35+50.00000	21	45	0	47
36+00.00000	9	52	0	31
36+50.00000	10	47	0	17
37+00.00000	12	45	0	13
37+50.00000	12	47	1	9

Station	Left	Left	Right	Right
L	Uncl. Exc. (cu. yd.)	Embt. (cu. yd.)	Uncl. Exc. (cu. yd.)	Embt. (cu. yd.)
38+00.00000	10	51	1	9
38+50.00000	8	55	1	9
39+00.00000	7	57	0	11
39+50.00000	9	59	0	12
40+00.00000	12	61	0	11
40+50.00000	11	64	1	8
41+00.00000	11	71	1	8
41+50.00000	11	78	1	8
42+00.00000	13	80	1	7
42+50.00000	15	80	1	7
43+00.00000	16	78	2	6
43+50.00000	16	73	2	5
44+00.00000	16	59	2	4
44+50.00000	16	50	2	4
45+00.00000	17	56	2	6
45+50.00000	15	64	2	4
46+00.00000	10	71	2	3
46+50.00000	9	72	2	3
47+00.00000	9	69	2	4
47+50.00000	9	67	3	3
48+00.00000	11	59	3	3
48+50.00000	11	51	2	4
49+00.00000	10	55	2	3
49+50.00000	9	54	2	3
50+00.00000	7	49	2	4
50+50.00000	13	45	2	4
51+00.00000	17	44	1	7
51+50.00000	11	46	0	11
52+00.00000	8	47	0	9
52+50.00000	7	45	1	5
53+00.00000	6	47	3	2
53+50.00000	6	55	3	1
54+00.00000	6	61	3	2
54+50.00000	9	60	2	3
55+00.00000	11	59	2	4
55+50.00000	9	62	2	5
56+00.00000	13	64	3	7
56+50.00000	18	60	7	9
57+00.00000	16	65	10	13
57+50.00000	13	78	9	17
58+00.00000	9	85	8	18
58+50.00000	8	87	8	16
59+00.00000	8	87	8	17
59+50.00000	8	89	5	19
60+00.00000	12	89	2	11
60+50.00000	11	89	1	2
61+00.00000	9	88	0	0
61+50.00000	10	84	1	5
62+00.00000	10	85	2	12
62+50.00000	11	87	1	12
63+00.00000	9	86	1	9
63+50.00000	9	81	3	6
64+00.00000	14	71	6	2

Station	Left	Left	Right	Right
L	Uncl. Exc. (cu. yd.)	Embt. (cu. yd.)	Uncl. Exc. (cu. yd.)	Embt. (cu. yd.)
64+50.00000	17	66	4	1
65+00.00000	17	69	1	1
65+50.00000	15	70	2	3
66+00.00000	14	67	2	4
66+50.00000	14	65	4	5
67+00.00000	15	68	3	8
67+50.00000	22	68	3	8
68+00.00000	14	33	3	2
68+50.00000	80	54	0	0
69+00.00000	160	60	6	4
69+50.00000	136	62	12	9
70+00.00000	93	108	14	10
70+50.00000	70	106	16	13
71+00.00000	67	99	27	8
71+50.00000	73	86	25	9
72+00.00000	91	81	13	23
72+50.00000	77	56	13	28
73+00.00000	30	19	13	25

Station	Median	Median
L	Uncl. Exc. (cu. yd.)	Embt. (cu. yd.)
11+50.00000	0	0
12+00.00000	22	5
12+50.00000	22	14
13+00.00000	17	14
13+50.00000	15	22
14+00.00000	0	21
14+50.00000	1	11
15+00.00000	3	21
15+50.00000	4	16
16+00.00000	4	14
16+50.00000	2	16
17+00.00000	1	8

PROJ. REFERENCE NO.	SHEET NO.
U-4439A&B	X-3

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

NOTE: EMBANKMENT COLUMN INCLUDES BACKFILL FOR UNDERCUT

CROSS-SECTION SUMMARY

Station	Uncl. Exc.	Embt
Y1	(cu. yd.)	(cu. yd.)
13+00.00	0	0
13+50.00	5	10
14+00.00	15	26
14+50.00	22	41
15+00.00	24	55
15+50.00	19	73
16+00.00	14	87
16+50.00	15	84
17+00.00	15	73
17+50.00	12	56
18+00.00	10	41
18+50.00	11	39
19+00.00	9	45
19+50.00	10	48
20+00.00	10	50
20+50.00	13	38
21+00.00	15	17
21+50.00	20	5

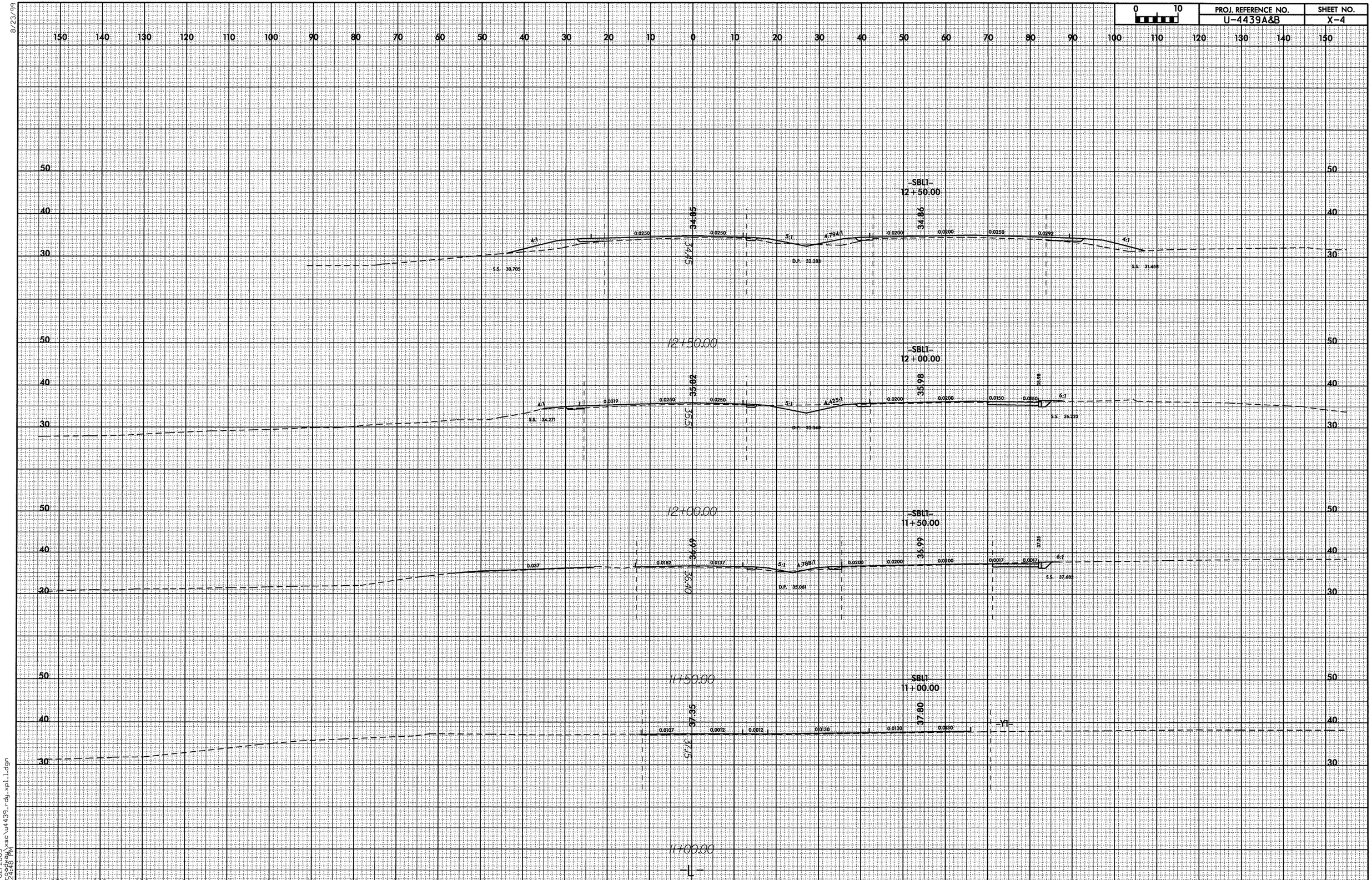
Station	Uncl. Exc.	Embt
Y1	(cu. yd.)	(cu. yd.)
24+00.00	0	0
24+50.00	3	30
25+00.00	2	43
25+50.00	2	48
26+00.00	2	71
26+50.00	3	76
27+00.00	4	80
27+50.00	4	105
28+00.00	6	118
28+50.00	8	101
29+00.00	10	68
29+50.00	11	43
30+00.00	11	35
30+50.00	10	21
31+00.00	8	9
31+50.00	5	4

Station	Uncl. Exc.	Embt
Y2	(cu. yd.)	(cu. yd.)
10+50.00	0	0
10+75.00	0	17
11+00.00	0	5
11+25.00	1	2
11+50.00	2	1
11+75.00	1	1

Station	Uncl. Exc.	Embt
Y3	(cu. yd.)	(cu. yd.)
10+50.00	0	0
11+00.00	38	9
11+50.00	68	28
12+00.00	75	43
12+50.00	82	47
13+00.00	70	47
13+50.00	42	56
14+00.00	43	43
14+50.00	47	43
15+00.00	44	80

Station	Uncl. Exc.	Embt
Y4	(cu. yd.)	(cu. yd.)
10+50.00	0	0
11+00.00	12	2
11+50.00	97	2
12+00.00	93	5
12+50.00	7	9
13+00.00	7	9
13+50.00	8	4
14+00.00	7	3

PROJ. REFERENCE NO.	SHEET NO.
U-4439A&B	X-4



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	U-4439A&B	X-5

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40 30

-SBL1-
14+50.00

33.57 33.25

0.0250 0.0250 5.56:1 7:1 0.0250 0.0250 4:1 3:1

S.S. 31.235

S.S. 29.101 D.P. 31.30 S.D. 29.12

32.52

14+50.00

-SBL1-
14+00.00

33.72 33.40

0.0250 0.0250 0.037 0.0200 0.0200 0.0200 0.0112 4:1 3:1

S.S. 31.474

S.S. 28.391 S.D. 29.12

32.70

14+00.00

-SBL1-
13+50.00

33.97 33.57

0.0250 0.0250 5.7:1 5.68:1 0.0200 0.0200 0.0055 4:1 3:1

S.S. 30.385

S.S. 29.975 D.P. 31.620 S.D. 29.2

32.94

13+50.00

-SBL1-
13+00.00

34.17 34.02

0.0250 0.0250 5.2:1 5.45:1 0.0200 0.0200 0.0222 4:1 3:1

S.S. 31.011

S.S. 29.606 D.P. 31.770 S.D. 29.12

32.43

13+00.00

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	U-4439A&B	X-6

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40 30 20

SBL1
16+50.42

99.22
32.65
32.24

S.S. 30.460
3:1
4:1
0.0250
0.0117
4:1 6.36:1
0.0091
0.0103
4:1
3:1
S.S. 31.035
D.P. 31.790
S.D. 28.750
S.D. 29.18

16+50.00

SBL1
16+00.20

11.56
32.80
32.32

S.S. 27.195
3:1
4:1
0.0250
0.0250
3.28:1 4:1:1
0.0252
0.0252
4:1
3:1
S.S. 30.412
D.P. 30.85
S.D. 26.600
S.D. 29.12

16+00.00

SBL1
15+50.08

33.26
32.95
32.39

S.S. 29.318
4:1
0.0250
0.0250
4.4:1
5.49:1
0.0251
0.0251
4:1
3:1
S.S. 30.493
D.P. 31.00
S.D. 29.12

15+50.00

SBL1
15+00.02

33.10
32.42

S.S. 29.152
4:1
0.0250
0.0250
5.15:1
6.43:1
0.0251
0.0251
4:1
3:1
S.S. 30.427
D.P. 31.15
S.D. 29.12

15+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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	U-4439A&B	X-7

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40 30 20

SBL1–
18+51.63

S.S. 31.135 3:1 4:1 0.0250 32.67 32.36 0.0252 4:1 3:1 S.S. 30.466
29.536 32.31 S.D. 29.42

18+50.00

SBL1–
18+01.41

S.S. 30.923 3:1 4:1 0.0250 32.59 32.28 0.0249 4:1 3:1 S.S. 31.451
S.D. 29.390 32.18 S.D. 29.36

18+00.00

SBL1–
17+51.08

S.S. 30.316 3:1 4:1 0.0250 32.66 32.35 0.0217 0.0243 0.0229 4:1 3:1 S.S. 31.306
S.D. 29.145 32.22 S.D. 29.30

17+50.00

SBL1–
17+00.74

S.S. 30.928 3:1 4:1 0.0250 32.81 32.50 0.0050 0.028 0.0076 0.0062 4:1 3:1 S.S. 31.228
S.D. 28.904 D.P. 32.39 32.27 S.D. 29.24

17+00.00

–L–

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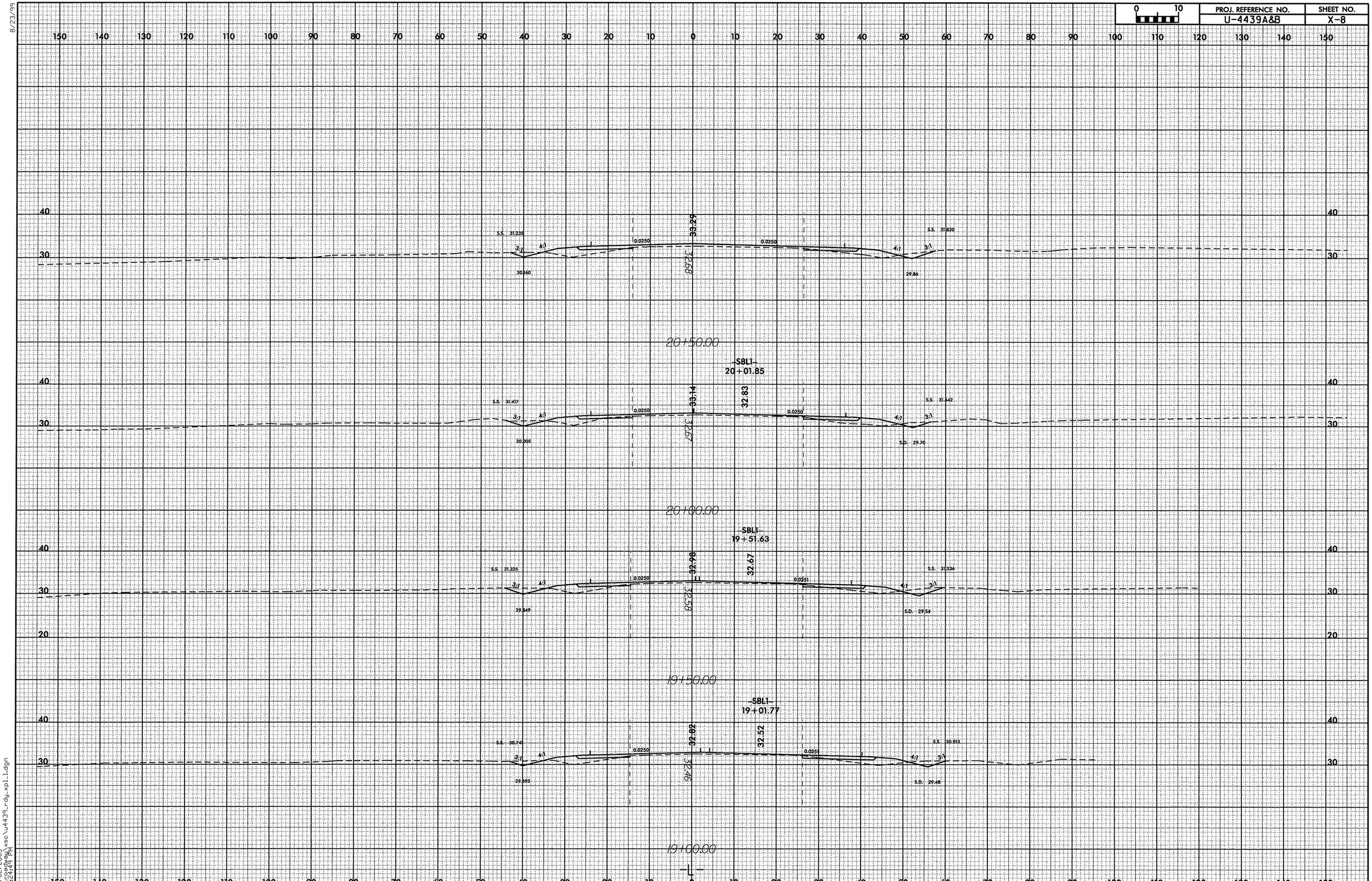

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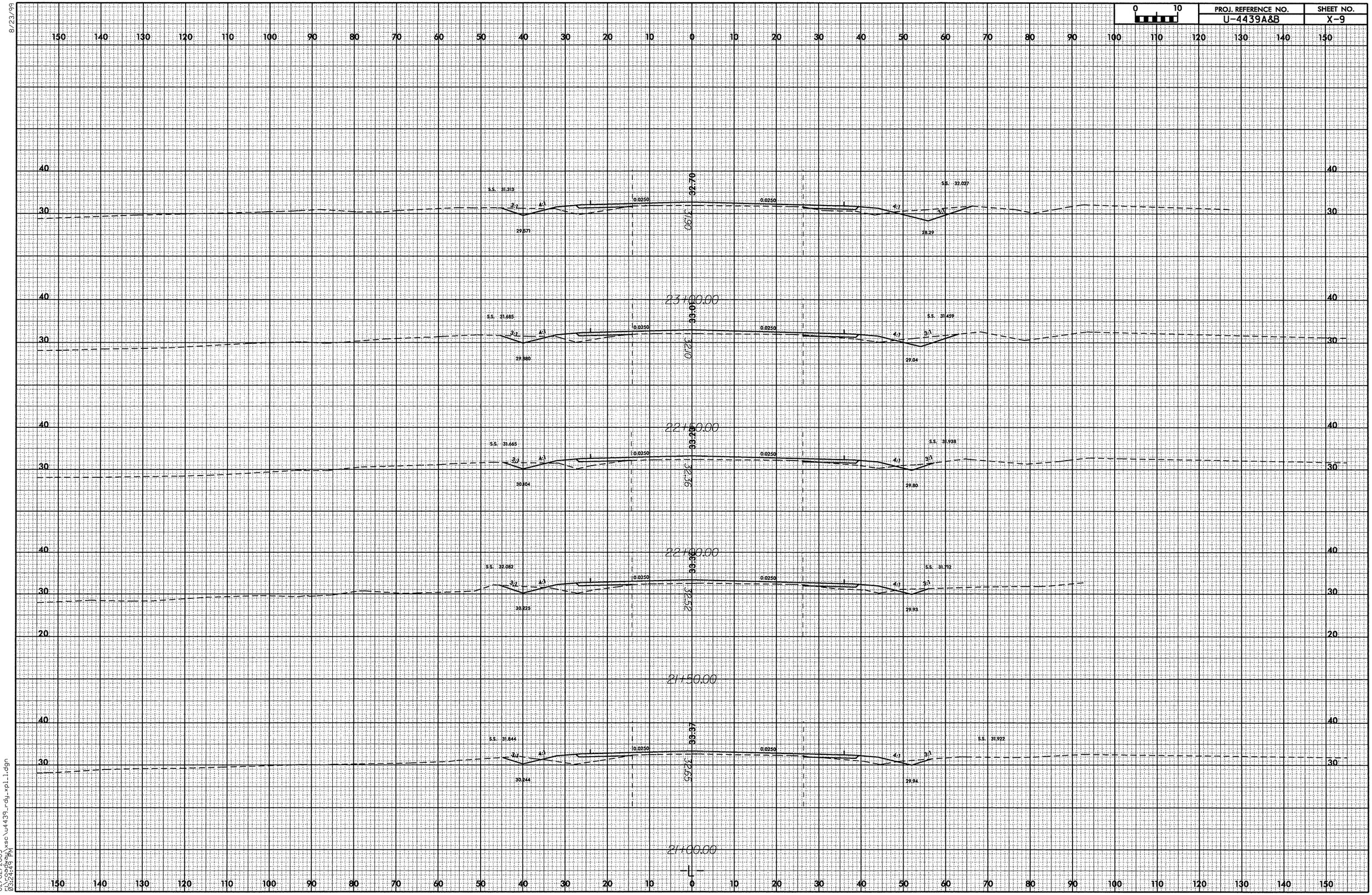

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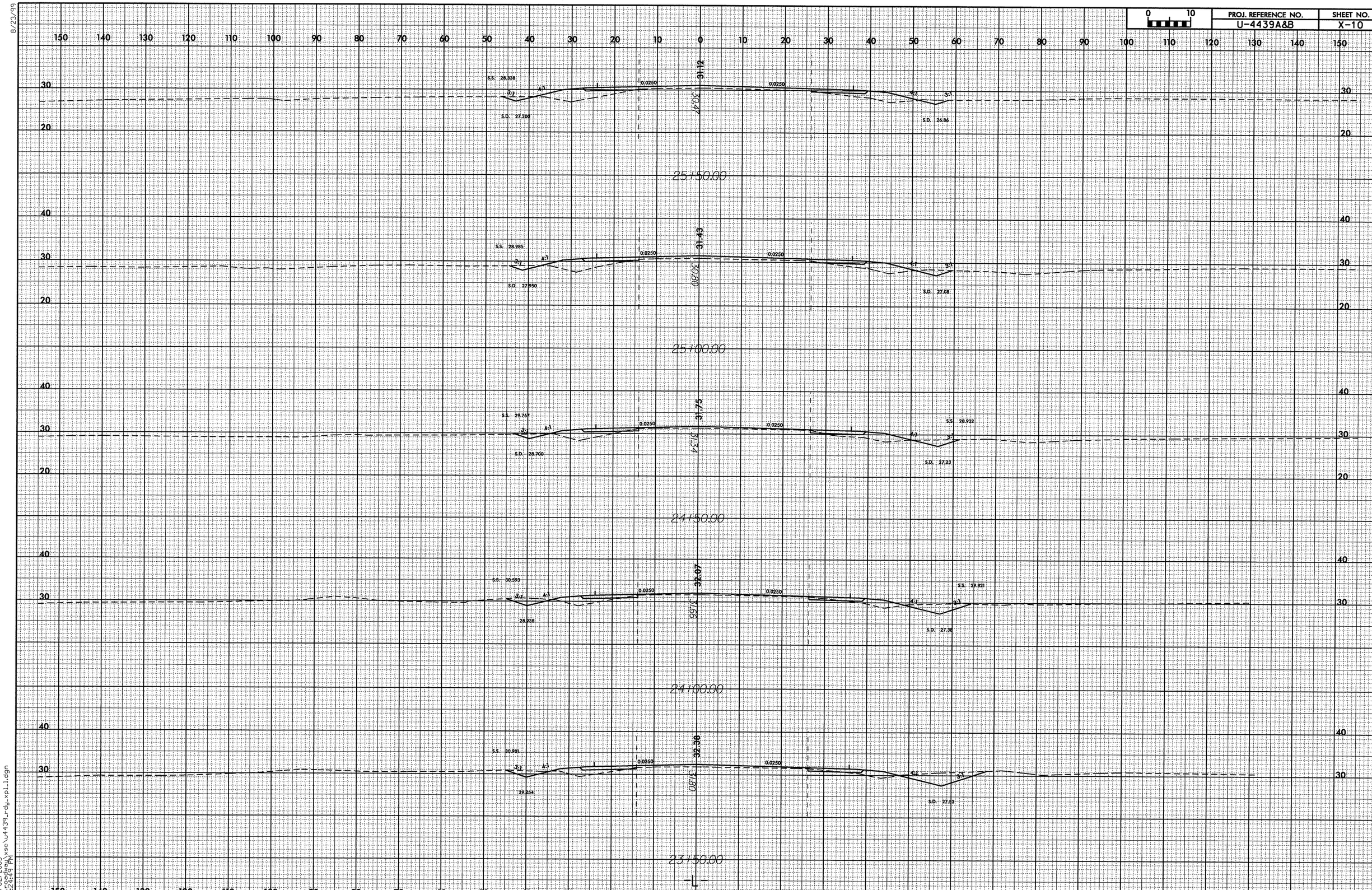

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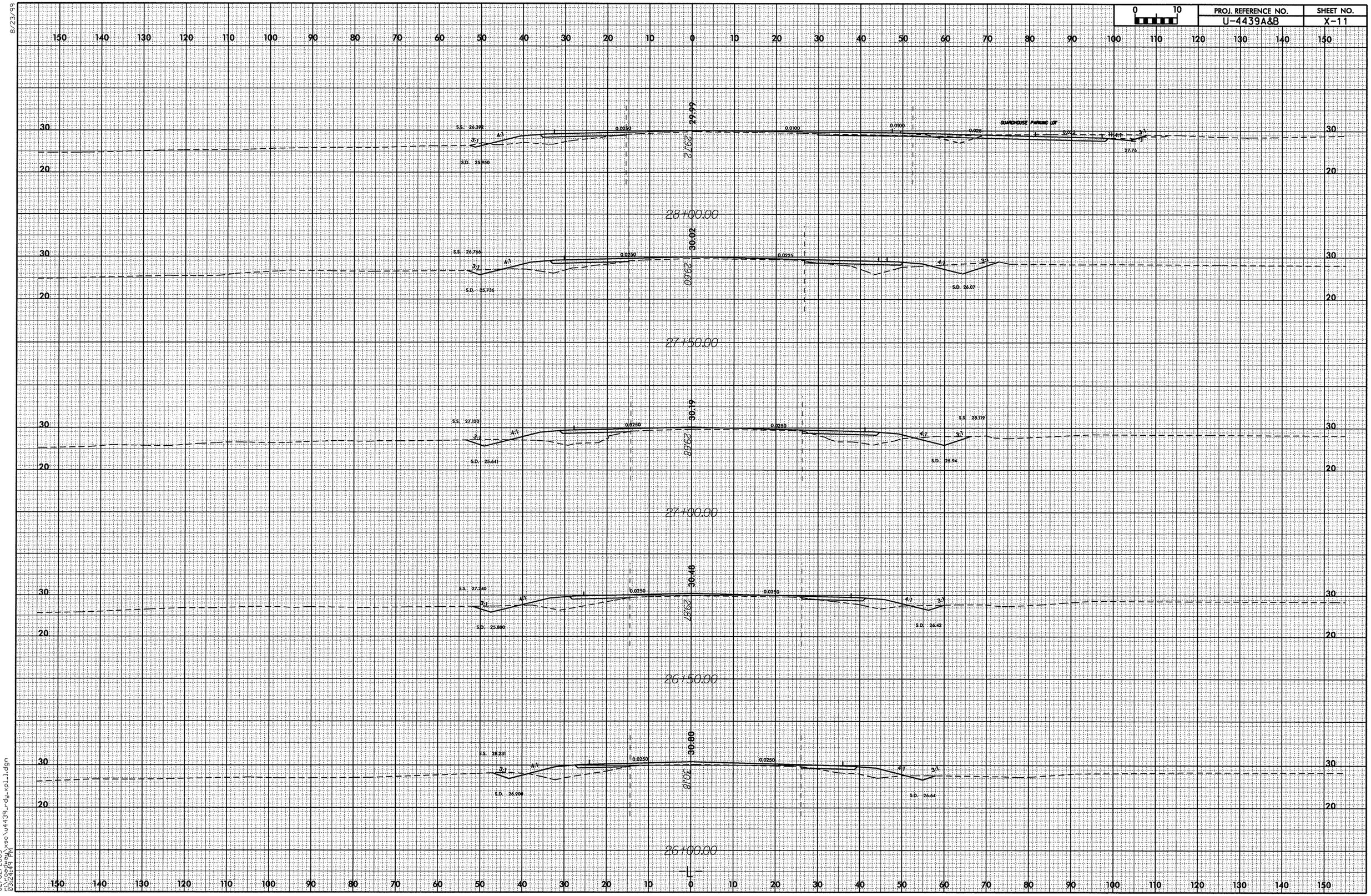

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PROJ. REFERENCE NO.	SHEET NO.
U-4439A&B	X-12

0 10

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

30 20

30.35
29.96
S.S. 25.84
4:1
0.0300
0.0100
4:1
3:1
S.S. 28.50
27.39

29+75.00

30.30
29.97
S.S. 25.833
4:1
0.0300
0.0100
4:1
3:1
27.34

29+50.00

30.27
30.02
S.S. 26.076
4:1
0.0300
EOT
EOT
0.0100
0.0100
4:1
3:1
S.S. 28.858
27.215
GUARDHOUSE FINISHED FLOOR ELEVATION 30.02

29+40.00

30.19
29.87
S.S. 26.453
4:1
0.0282
0.0100
4:1
3:1
26.79

29+00.00

30.07
29.55
S.S. 26.229
4:1
0.0250
0.0100
0.0100
0.031
0.031
GUARDHOUSE PARKING LOT

28+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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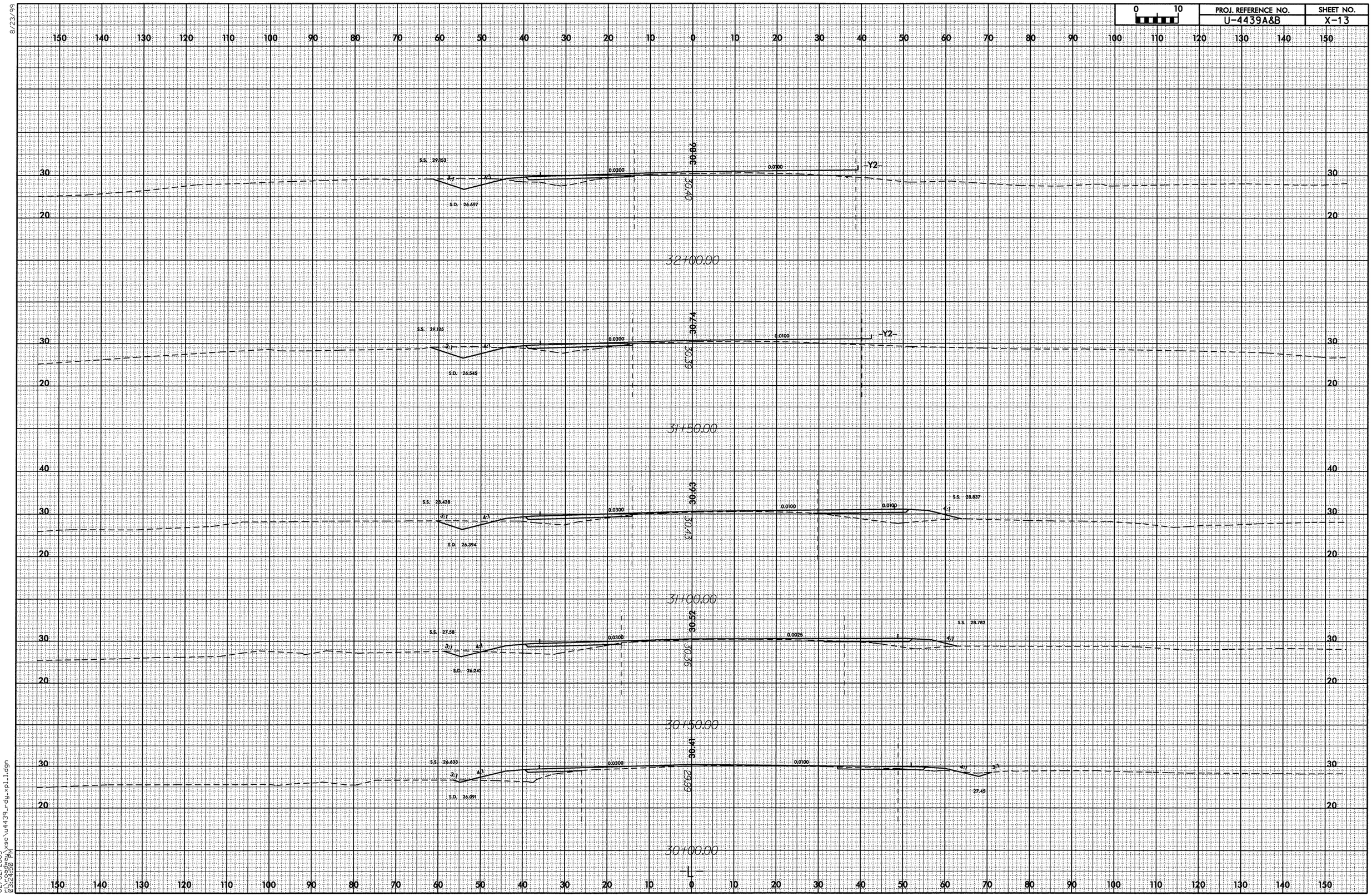

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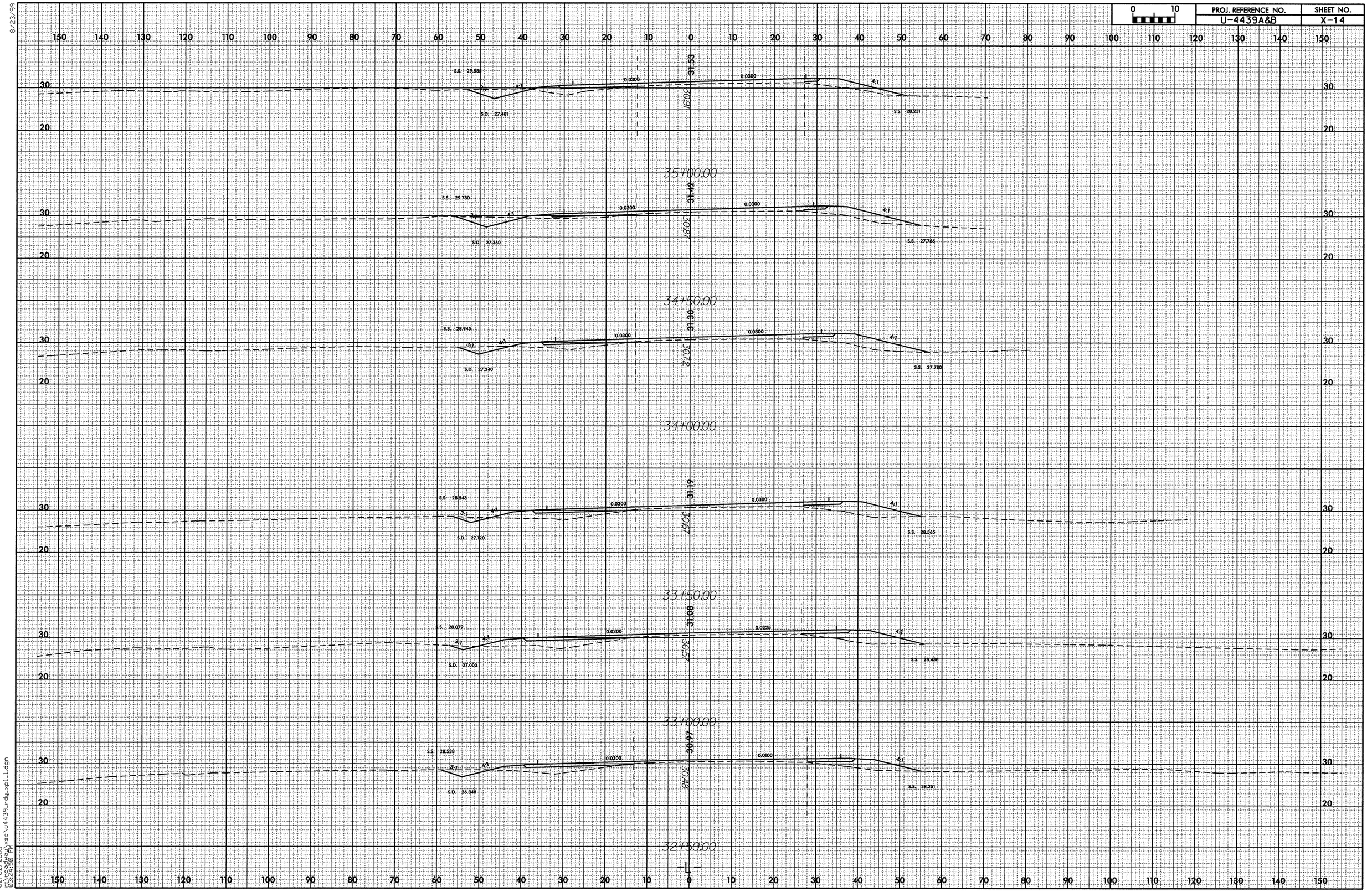
	U-4439A&B	X-14



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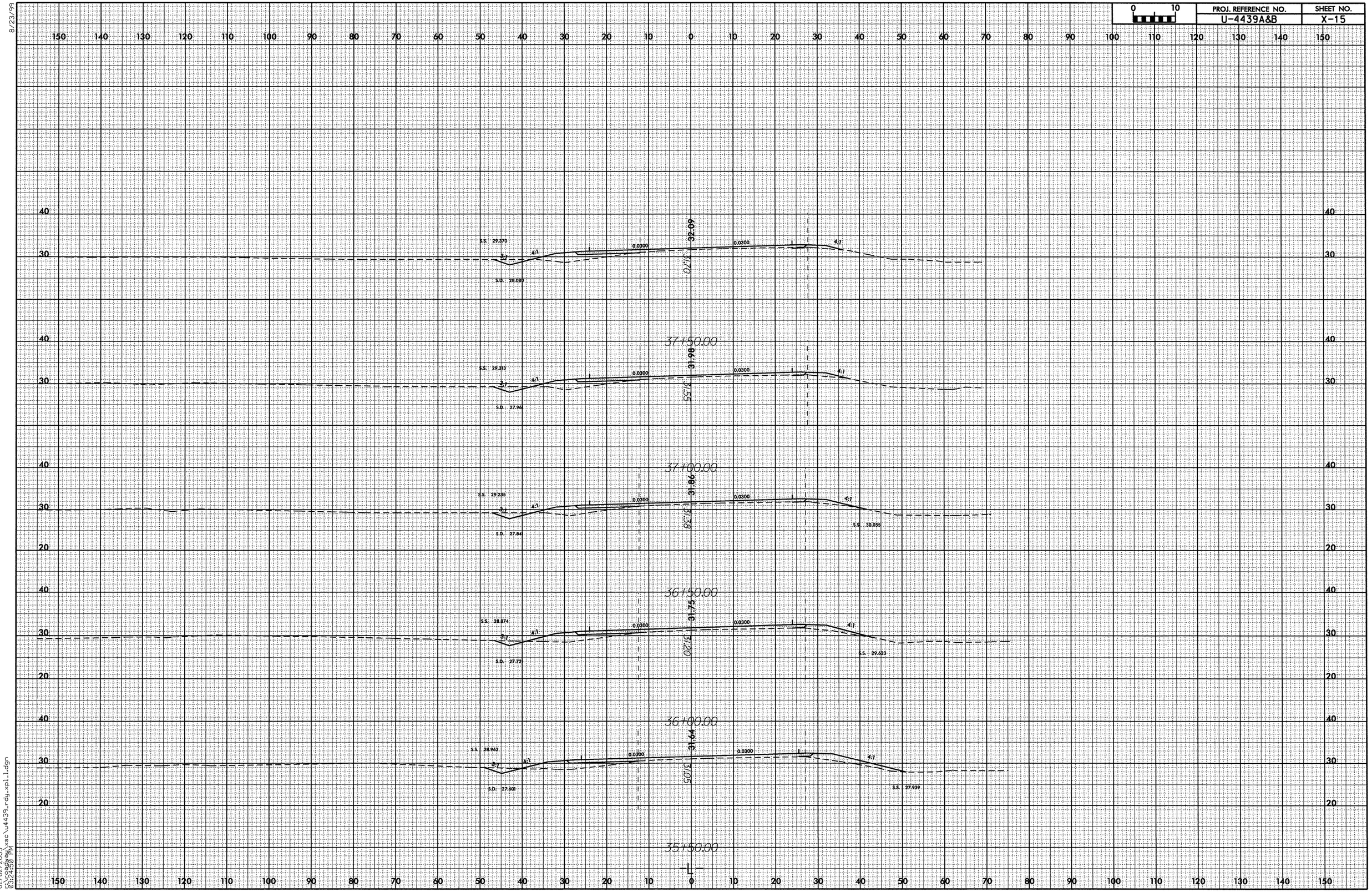
	U-4439A&B	X-15



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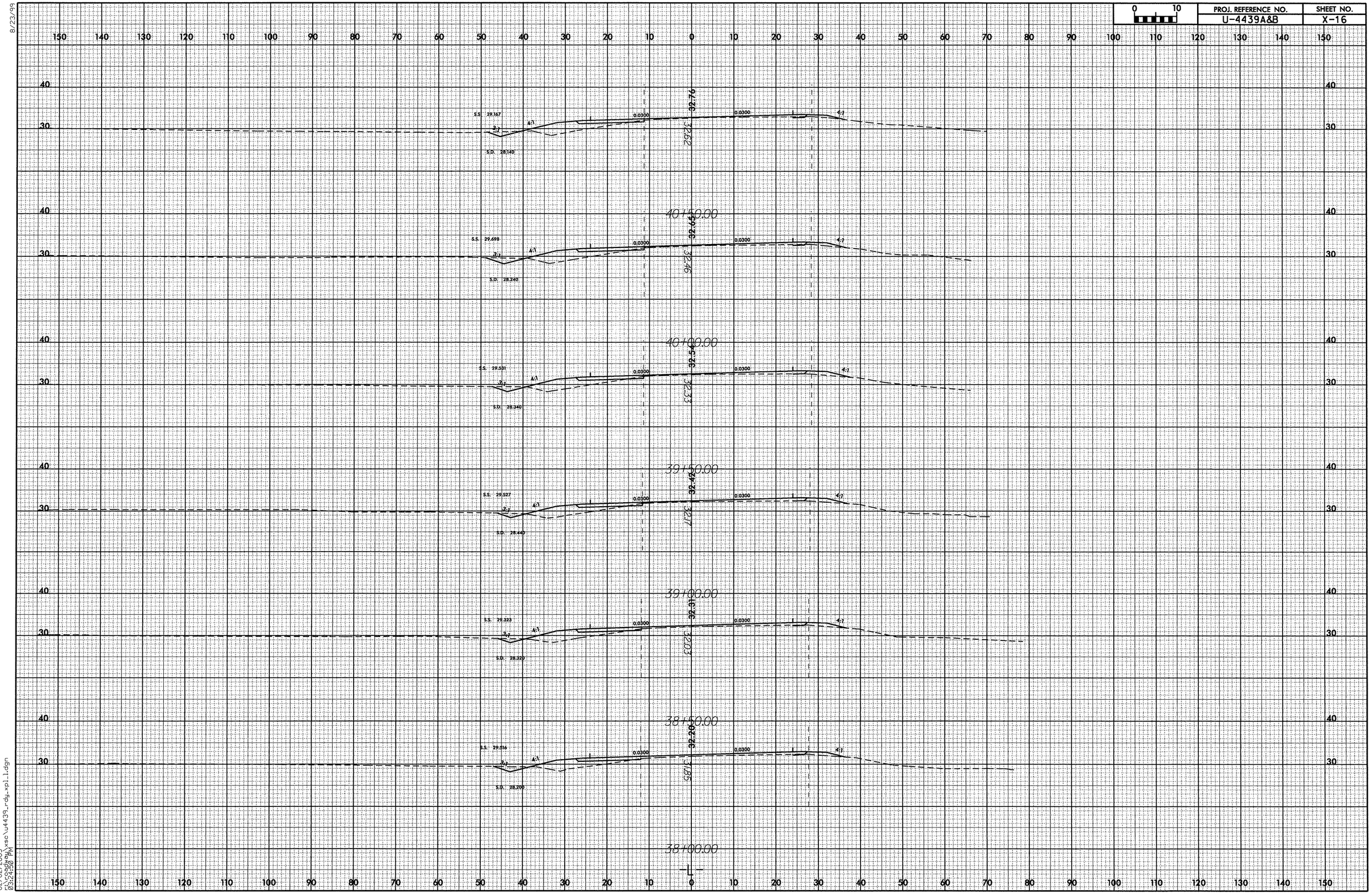
	U-4439A&B	X-16



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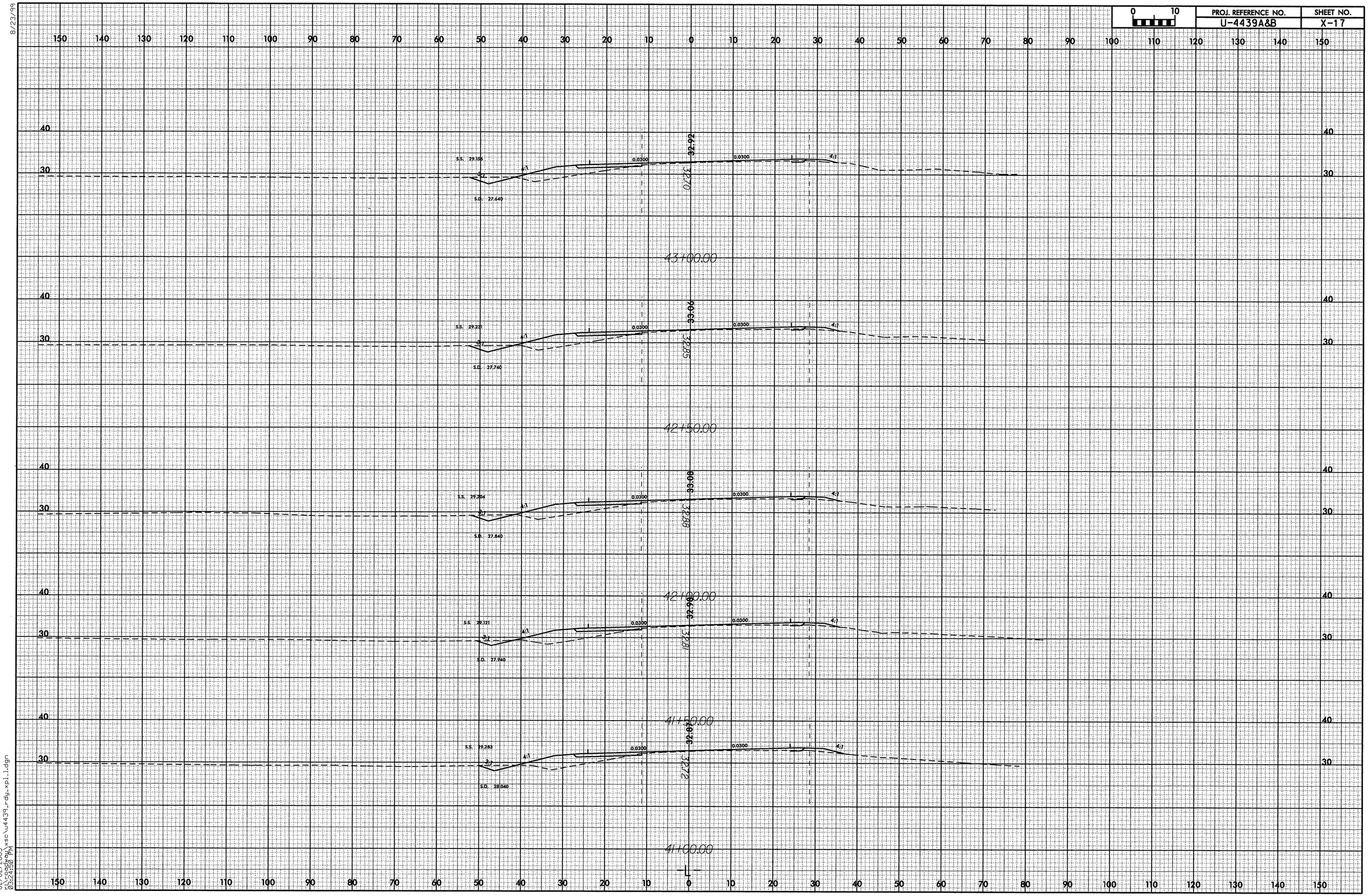

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	U-4439A&B	X-18

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

40
30

S.S. 28.376
-3:1
S.D. 27.140
4:1
0.0300
0.0300
4:1
32.16
32.09

45150.00

S.S. 28.291
-3:1
S.D. 27.240
4:1
0.0300
0.0300
4:1
32.31
32.06

45100.00

S.S. 28.290
-3:1
S.D. 27.340
4:1
0.0300
0.0300
4:1
32.46
32.22

44150.00

S.S. 29.193
-3:1
S.D. 27.440
4:1
0.0300
0.0300
4:1
32.63
32.42

44100.00

S.S. 29.015
-3:1
S.D. 27.540
4:1
0.0300
0.0300
4:1
32.73
32.60

43150.00

-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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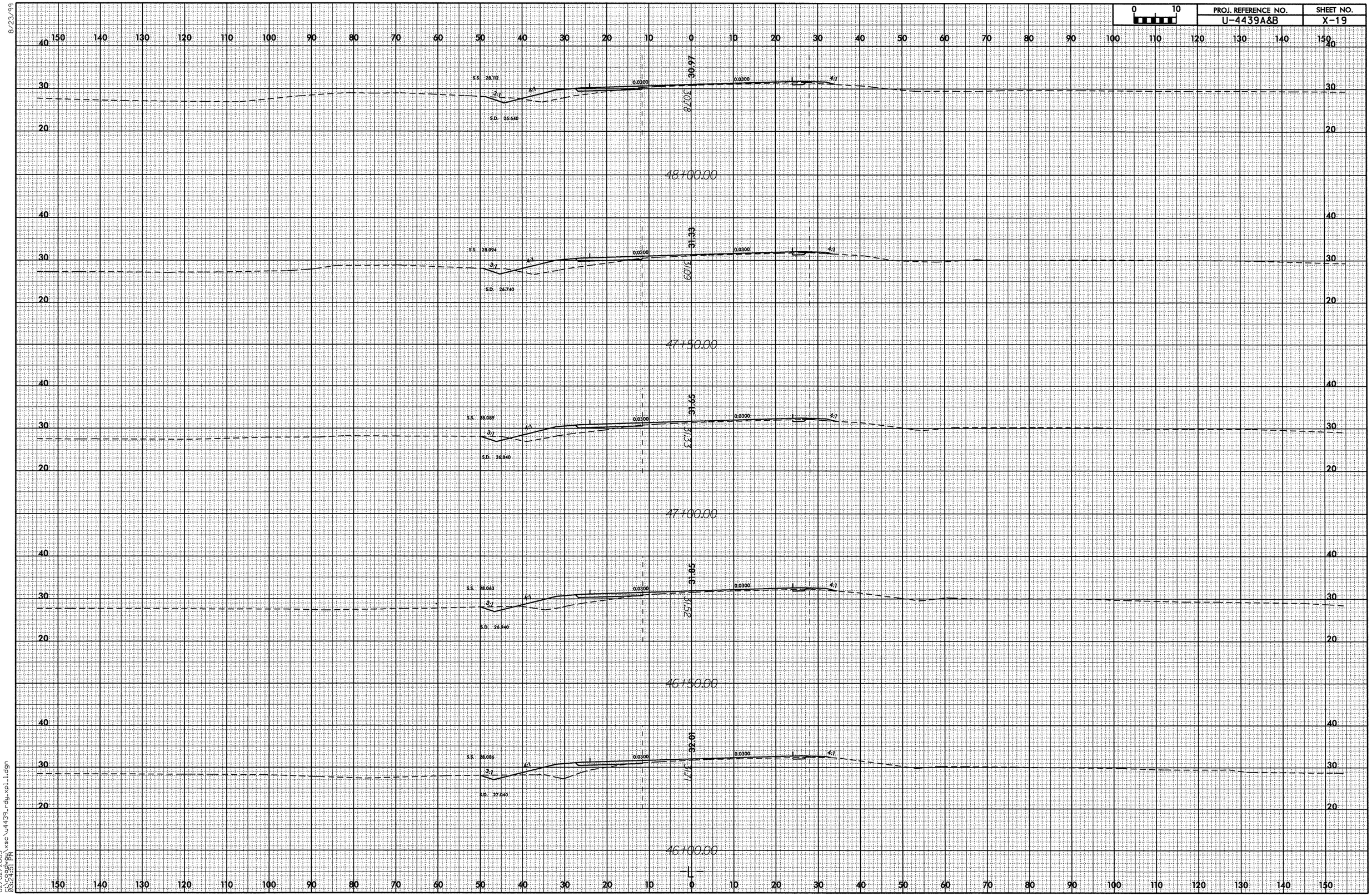

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0 10	PROJ. REFERENCE NO.	SHEET NO.
	U-4439A&B	X-20

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

30 20

S.S. 27.363
3:1
4:1
0.0300
0.0300
4:1
28.90
25.537
6582
50150.00

30 20

S.S. 27.323
3:1
4:1
0.0300
0.0300
4:1
29.40
S.D. 26.240
2907
50100.00

30 20

S.S. 27.335
3:1
4:1
0.0300
0.0300
4:1
29.85
S.D. 26.340
2954
49150.00

30 20

S.S. 27.663
3:1
4:1
0.0300
0.0300
4:1
30.24
S.D. 26.640
2939
49100.00

30 20

S.S. 27.579
3:1
4:1
0.0300
0.0300
4:1
30.60
S.D. 26.540
3039
48150.00

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

02/02/2005
03:24:51 PM
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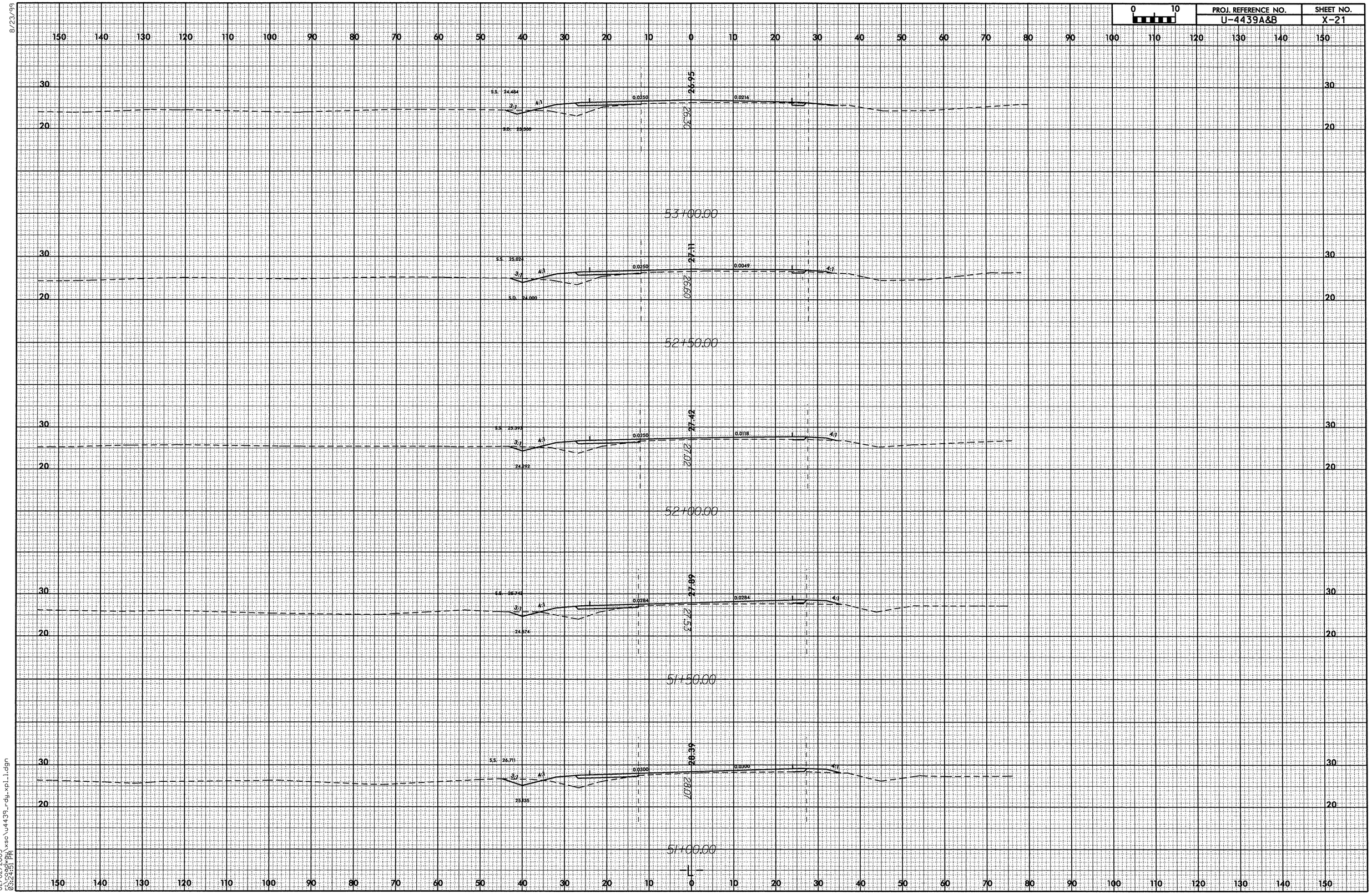
8/23/99

0 10	PROJ. REFERENCE NO.	SHEET NO.
	U-4439A&B	X-21



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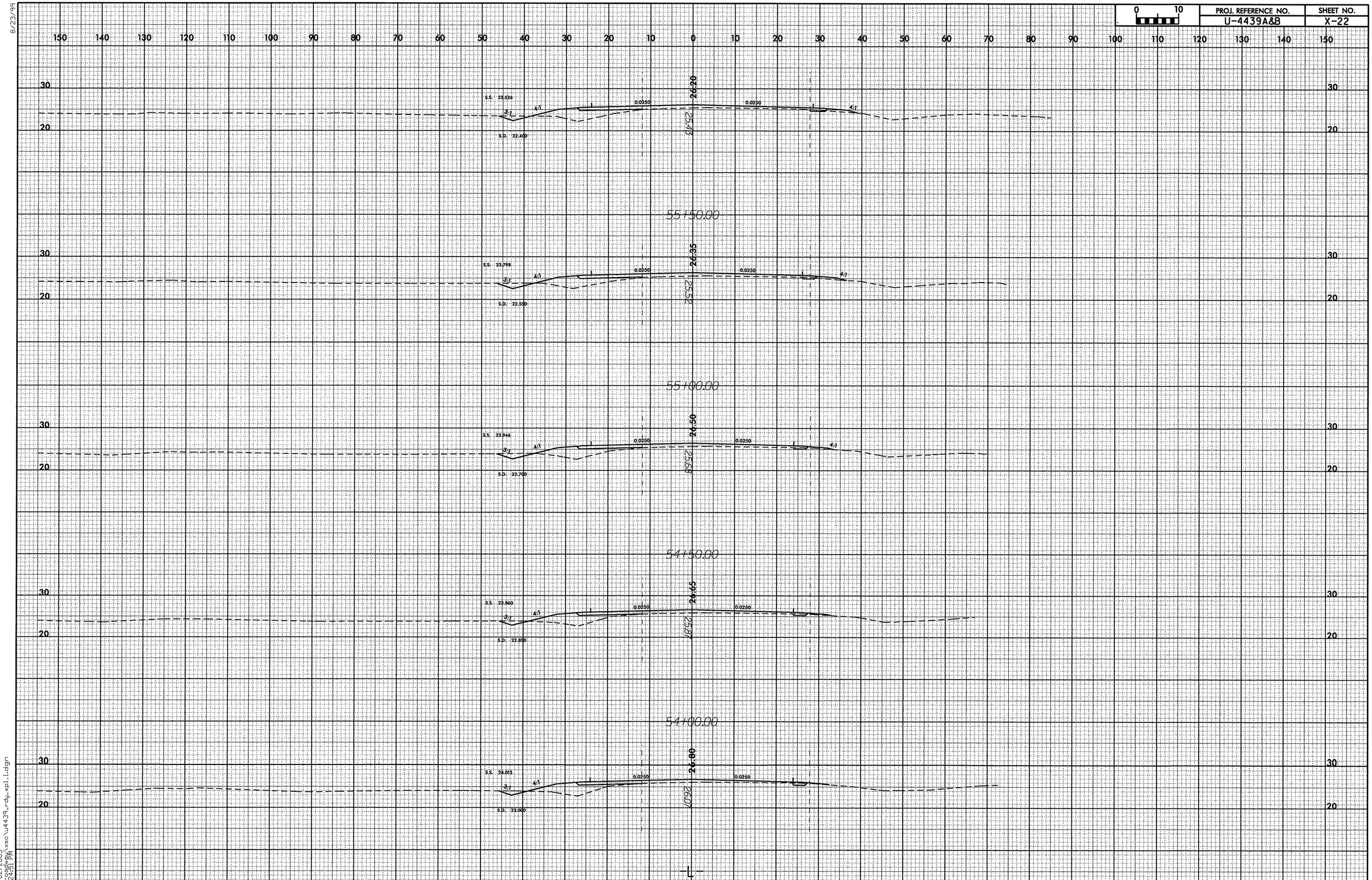

8/23/99

02/02/2005
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8/23/99

0 10	PROJ. REFERENCE NO.	SHEET NO.
	U-4439A&B	X-23

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30 20

S.S. 22.805 3:1 A1 0.0250 0.0250 4:1 3:1 S.S. 22.449
S.D. 21.650 S.D. 21.320
25.45 25.20

58100.00

30 20

S.S. 23.390 3:1 A1 0.0250 0.0250 4:1 3:1 S.S. 22.827
S.D. 21.800 S.D. 21.710
25.09 25.10

57150.00

30 20

S.S. 23.432 3:1 A1 0.0250 0.0250 4:1 3:1 S.S. 23.284
S.D. 21.950 S.D. 22.100
25.75 25.30

57100.00

30 20

S.S. 24.103 3:1 A1 0.0250 0.0250 4:1 3:1 S.S. 23.260
S.D. 22.100 S.D. 22.250
25.99 25.39

56150.00

30 20

S.S. 23.909 3:1 A1 0.0250 0.0250 4:1 3:1 S.S. 22.836
S.D. 22.250 S.D. 22.400
26.05 25.41

56100.00

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

02/02/2005
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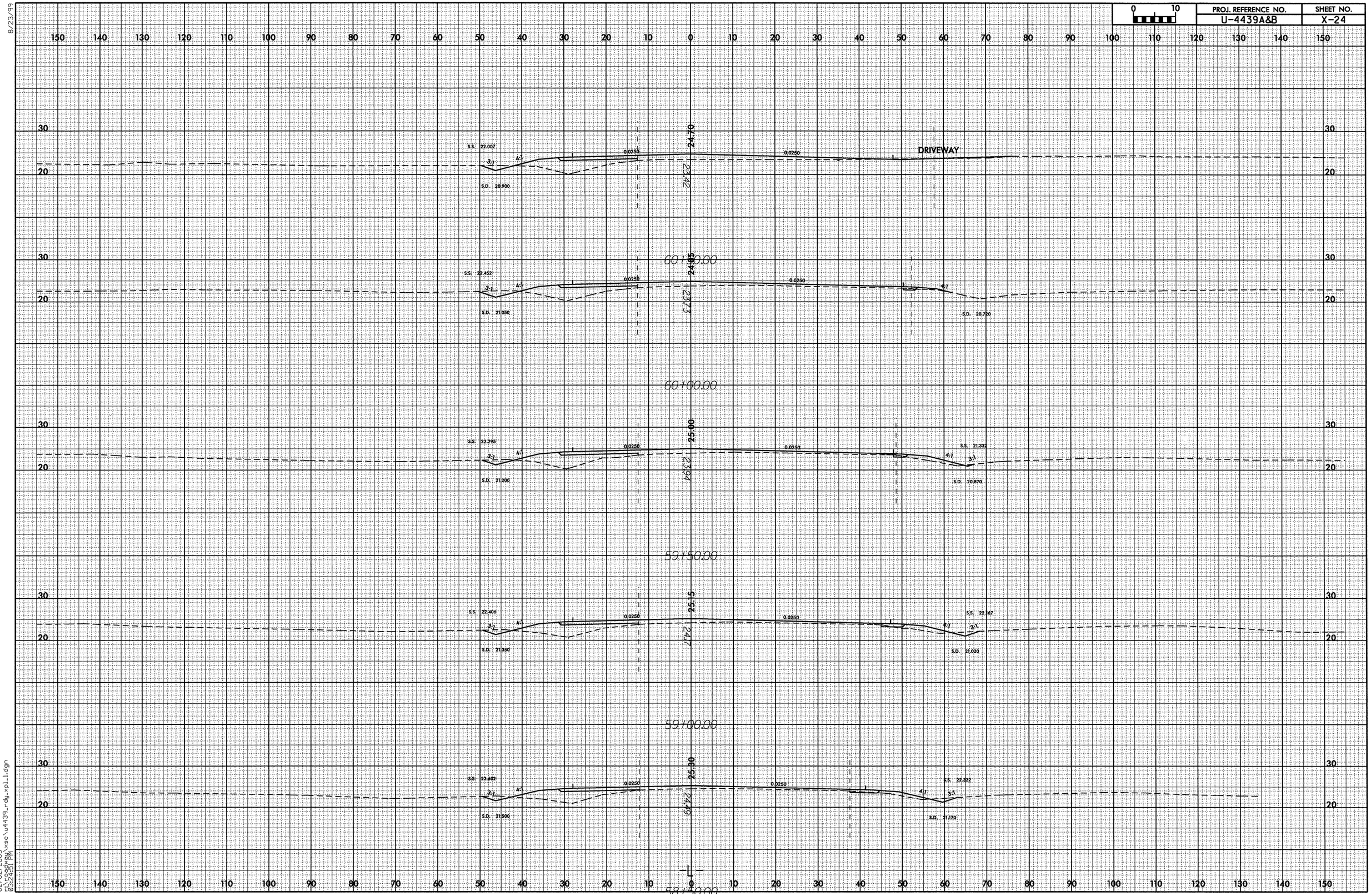
PROJ. REFERENCE NO.	SHEET NO.
U-4439A&B	X-24



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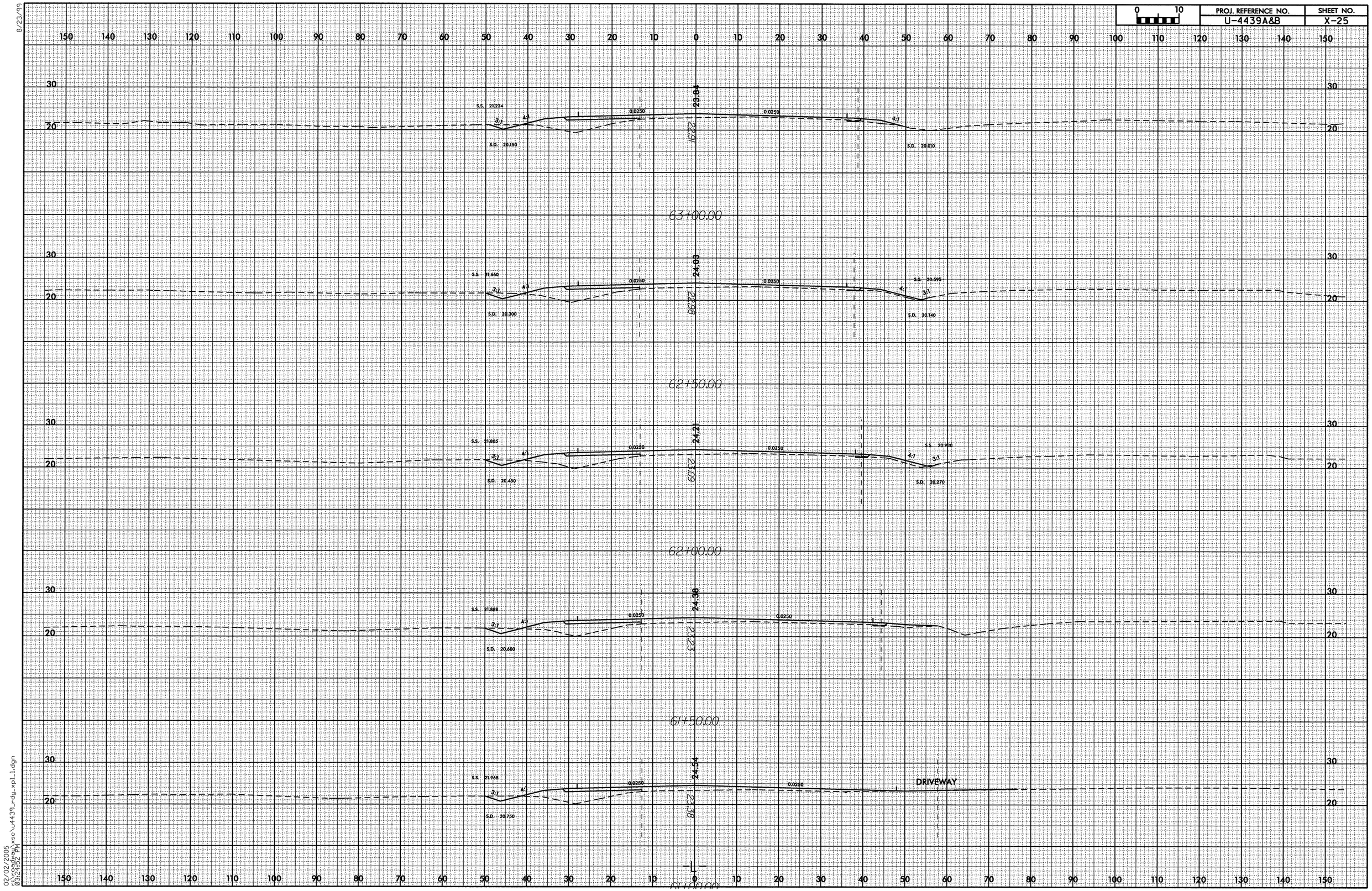

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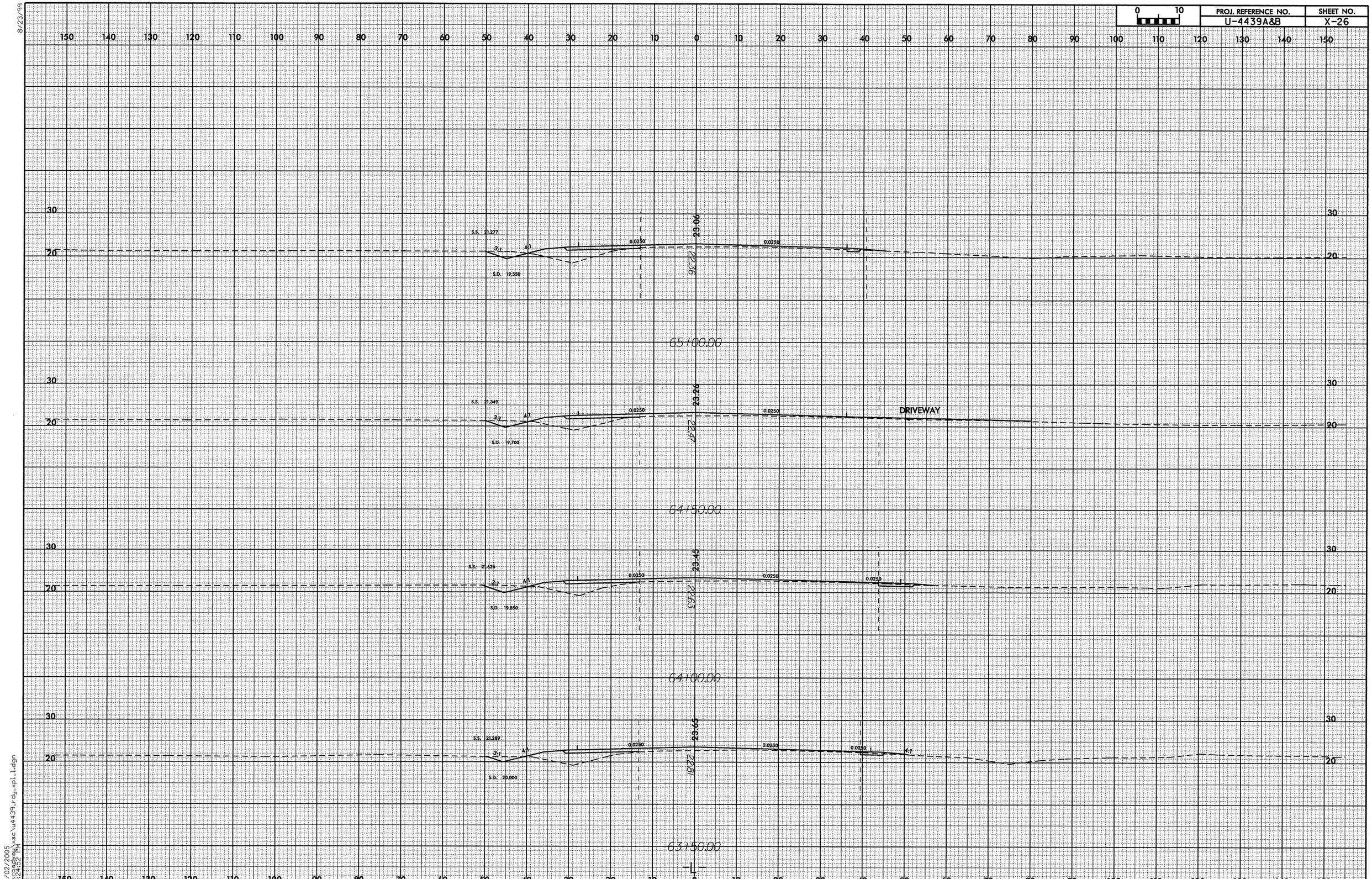

8/23/99

02/02/2005
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8/23/99

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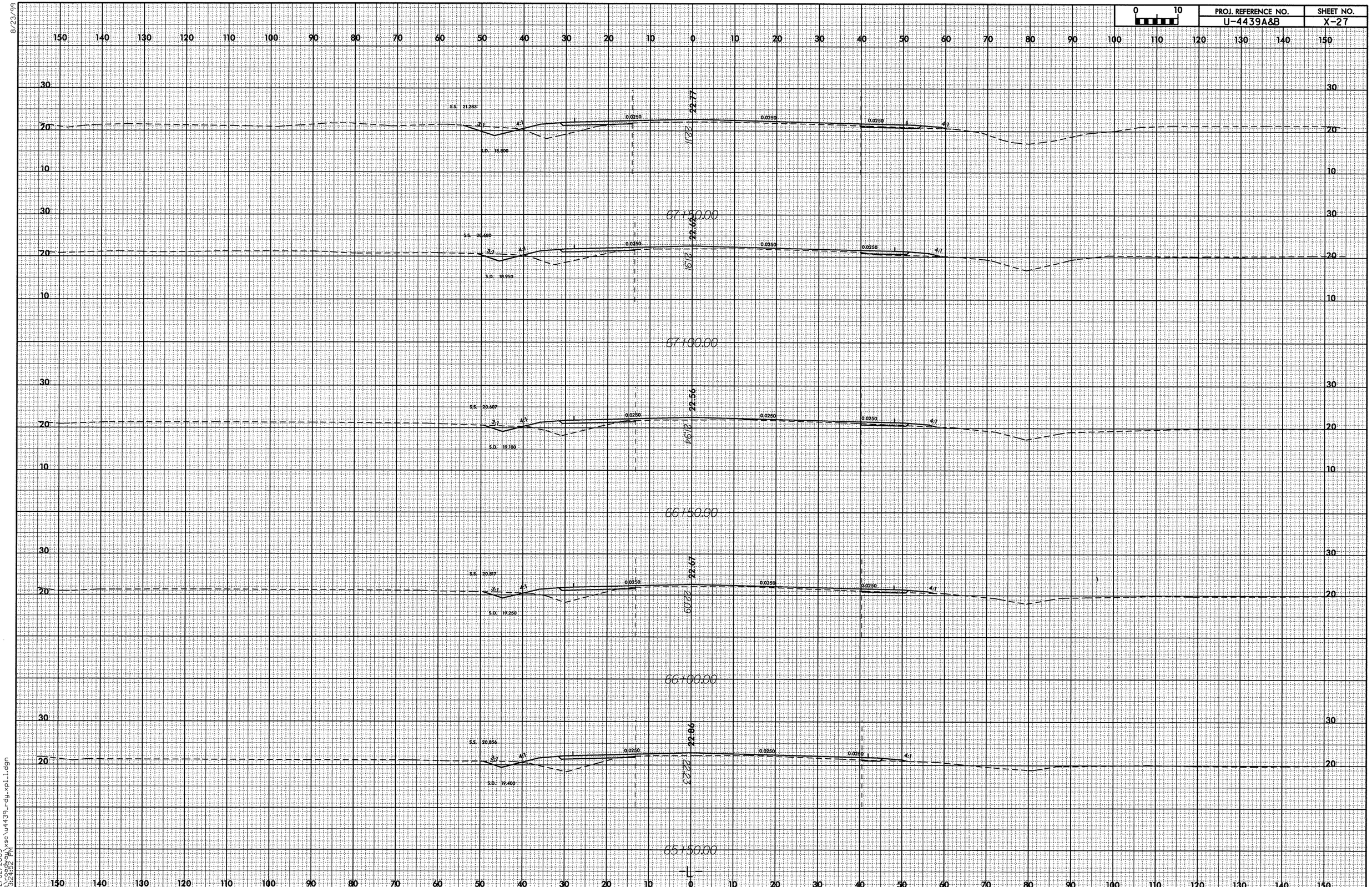
	U-4439A&B	X-27



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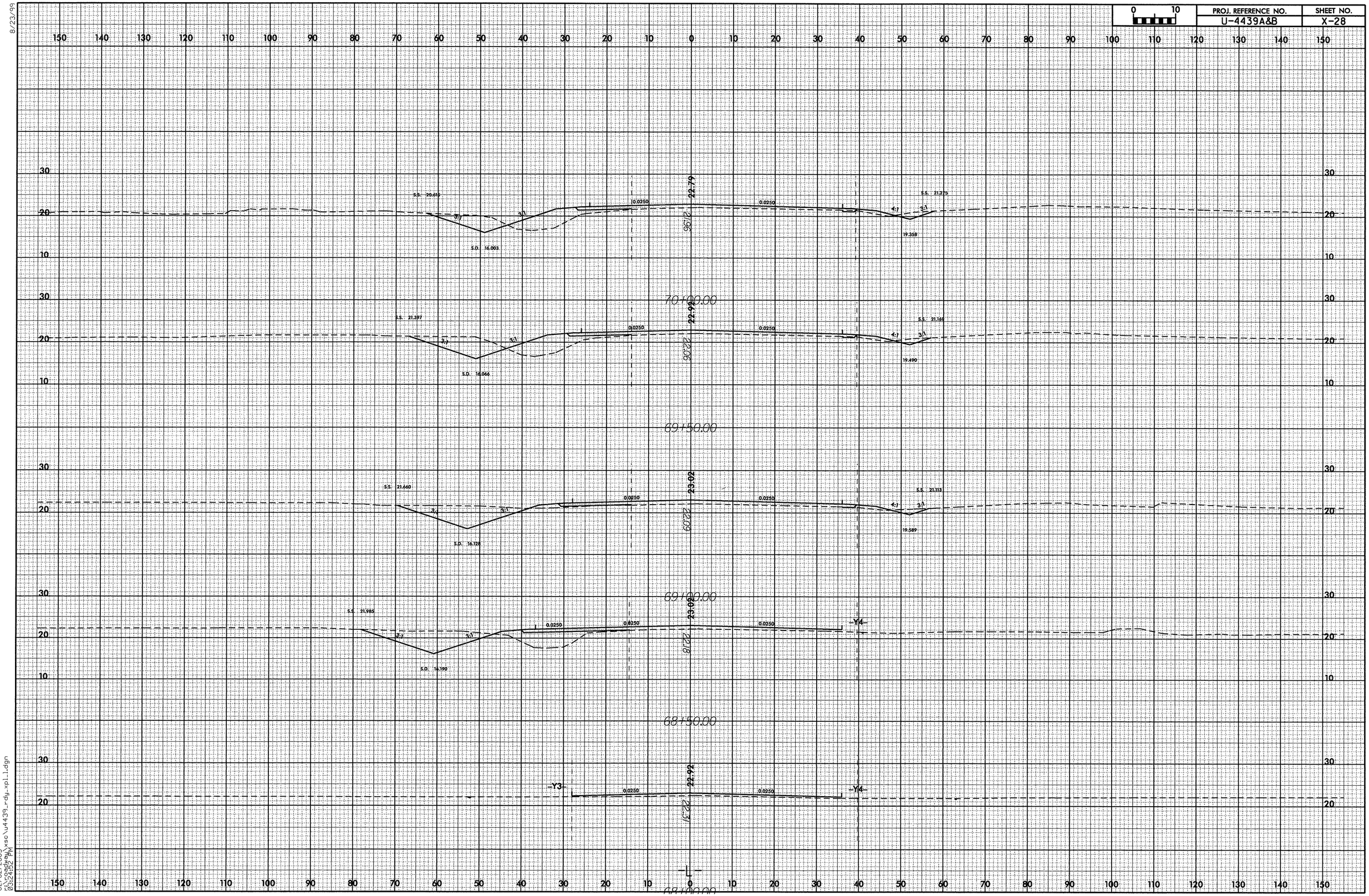

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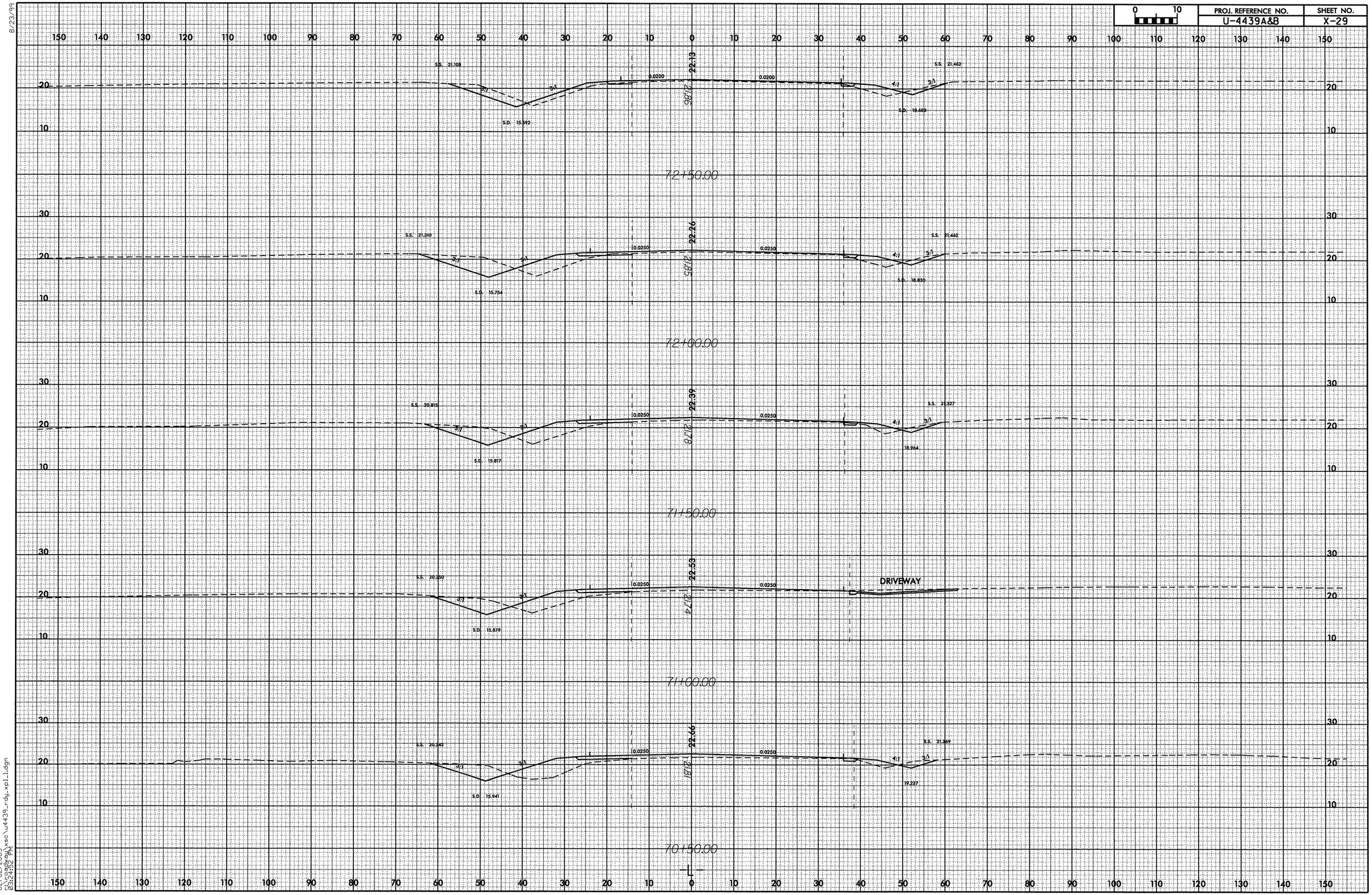
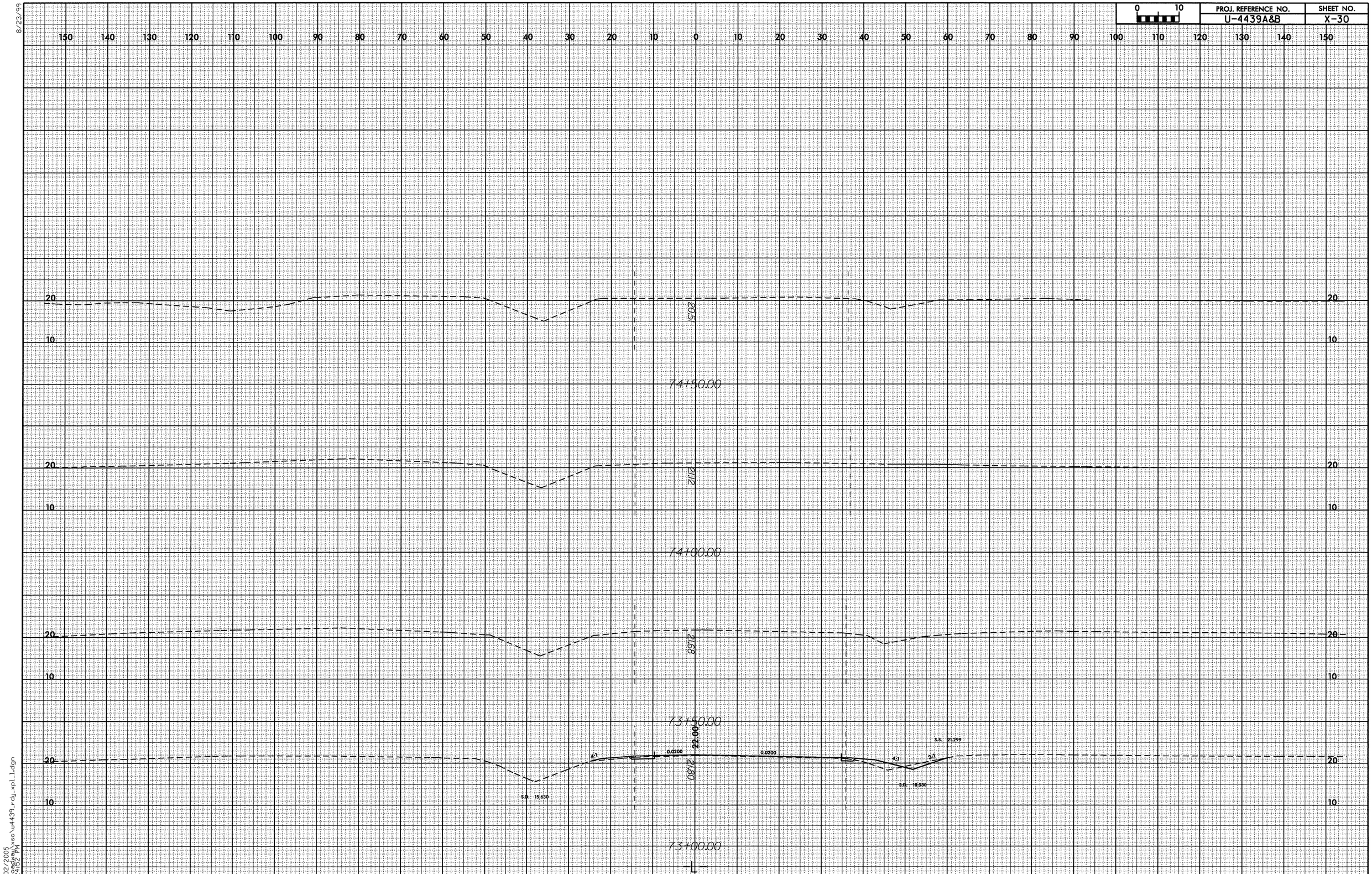


PROJ. REFERENCE NO.
U-4439A&B
SHEET NO.
X-29
0 10
S.S. 21.108
S.D. 15.592
22.13
21.86
0.0200
0.0200
S.S. 21.462
S.D. 18.680
72+50.00
S.S. 21.310
S.D. 15.754
22.26
21.85
0.0250
0.0250
S.S. 21.462
S.D. 18.830
72+00.00
S.S. 20.815
S.D. 15.817
22.39
21.78
0.0250
0.0250
S.S. 21.327
18.964
71+50.00
S.S. 20.350
S.D. 15.879
22.53
21.74
0.0250
0.0250
DRIVEWAY
71+00.00
S.S. 20.342
S.D. 15.941
22.66
21.81
0.0250
0.0250
S.S. 21.269
19.227
70+50.00
8/23/99
02/02/2005
r:\roadway\xsc\u4439_rdy_xpl_1.dgn
03:24:52 PM



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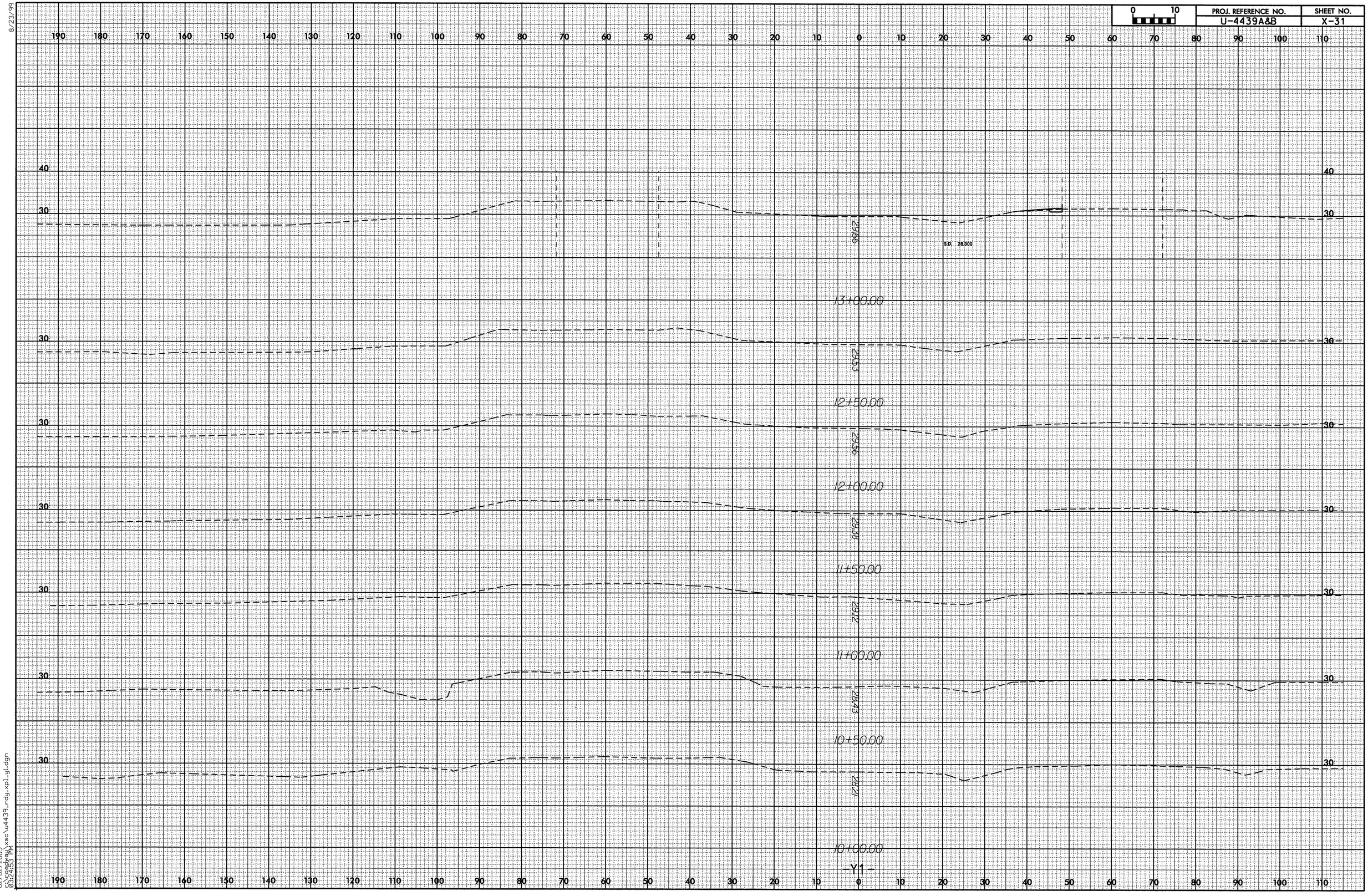

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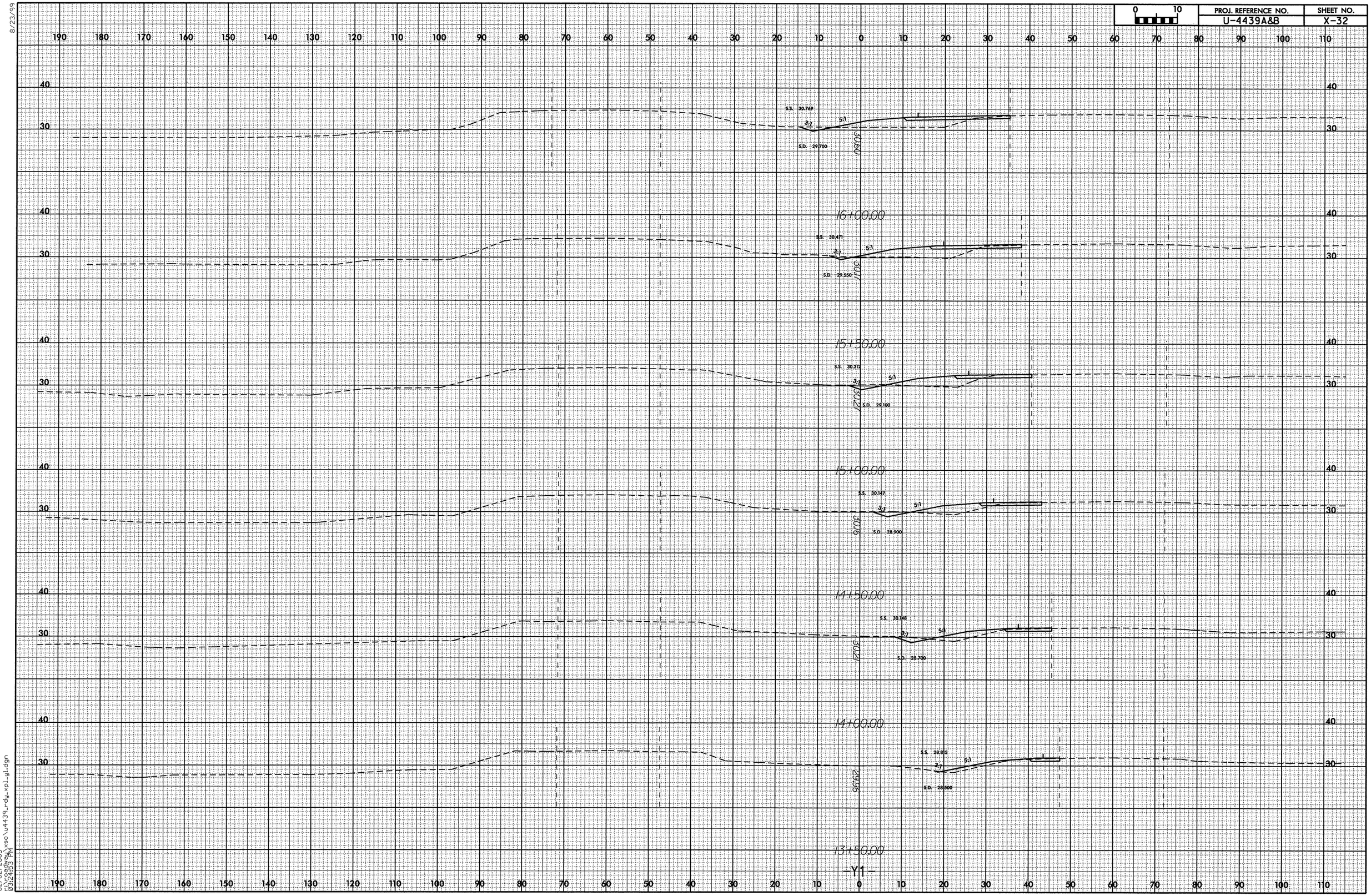

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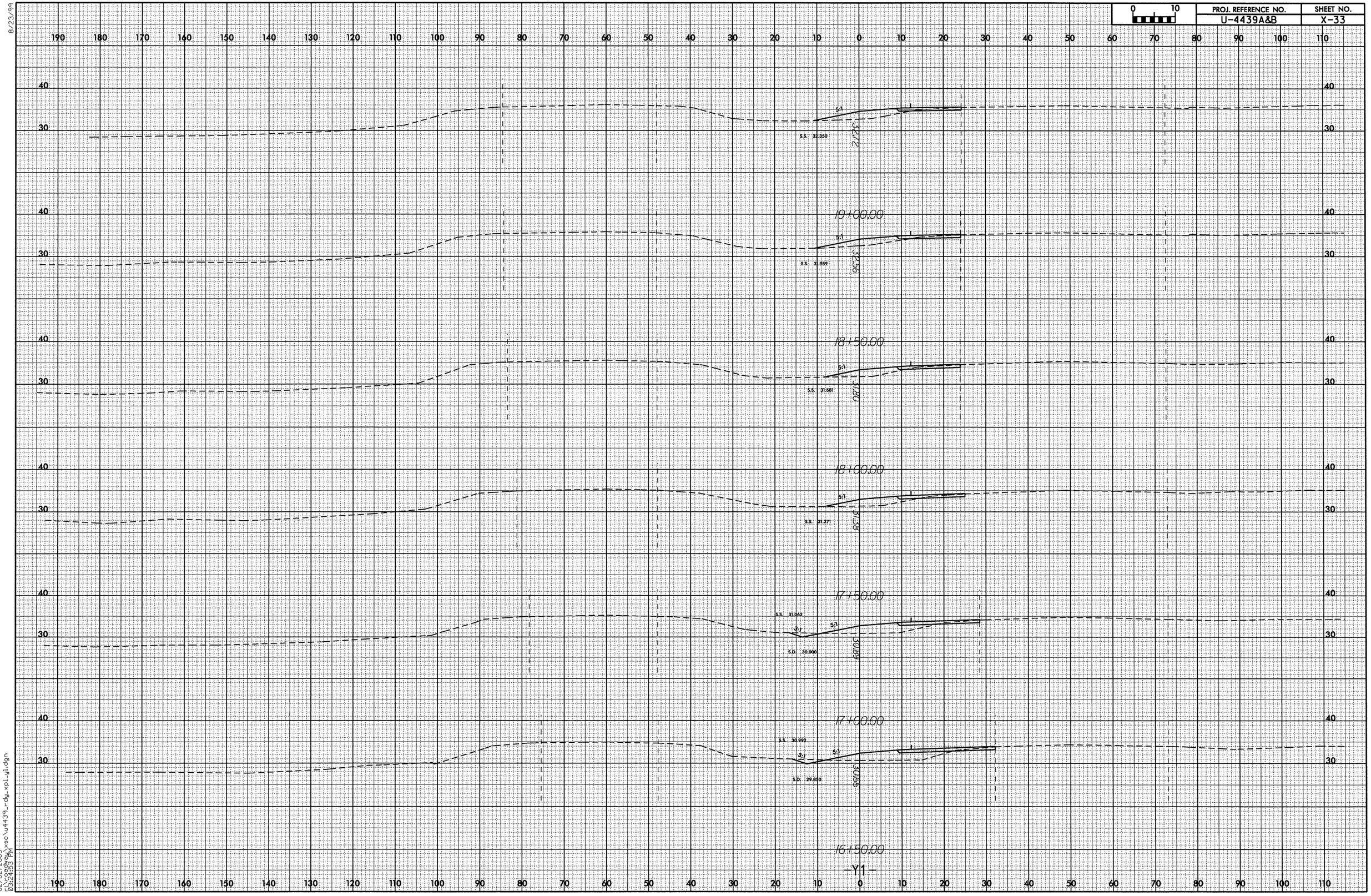

PROJ. REFERENCE NO.
U-4439A&B
SHEET NO.
X-33
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19+00.00
18+50.00
18+00.00
17+50.00
17+00.00
16+50.00
-Y1-
S.S. 32.350
S.S. 31.959
S.S. 31.681
S.S. 31.271
S.S. 31.062
S.D. 30.000
S.S. 30.992
S.D. 29.850
5:1
3:1
32.12
32.56
31.80
31.38
30.89
30.66
8/23/99
02/02/2005
r:\roadway\xsc\u4439_rdy_xpl_y1.dgn
03:24:53 PM

8/23/99

0 10	PROJ. REFERENCE NO.	SHEET NO.
	U-4439A&B	X-34

22+50.00

22+00.00

21+50.00

21+00.00

20+50.00

20+00.00

19+50.00

-Y1-

02/02/2005
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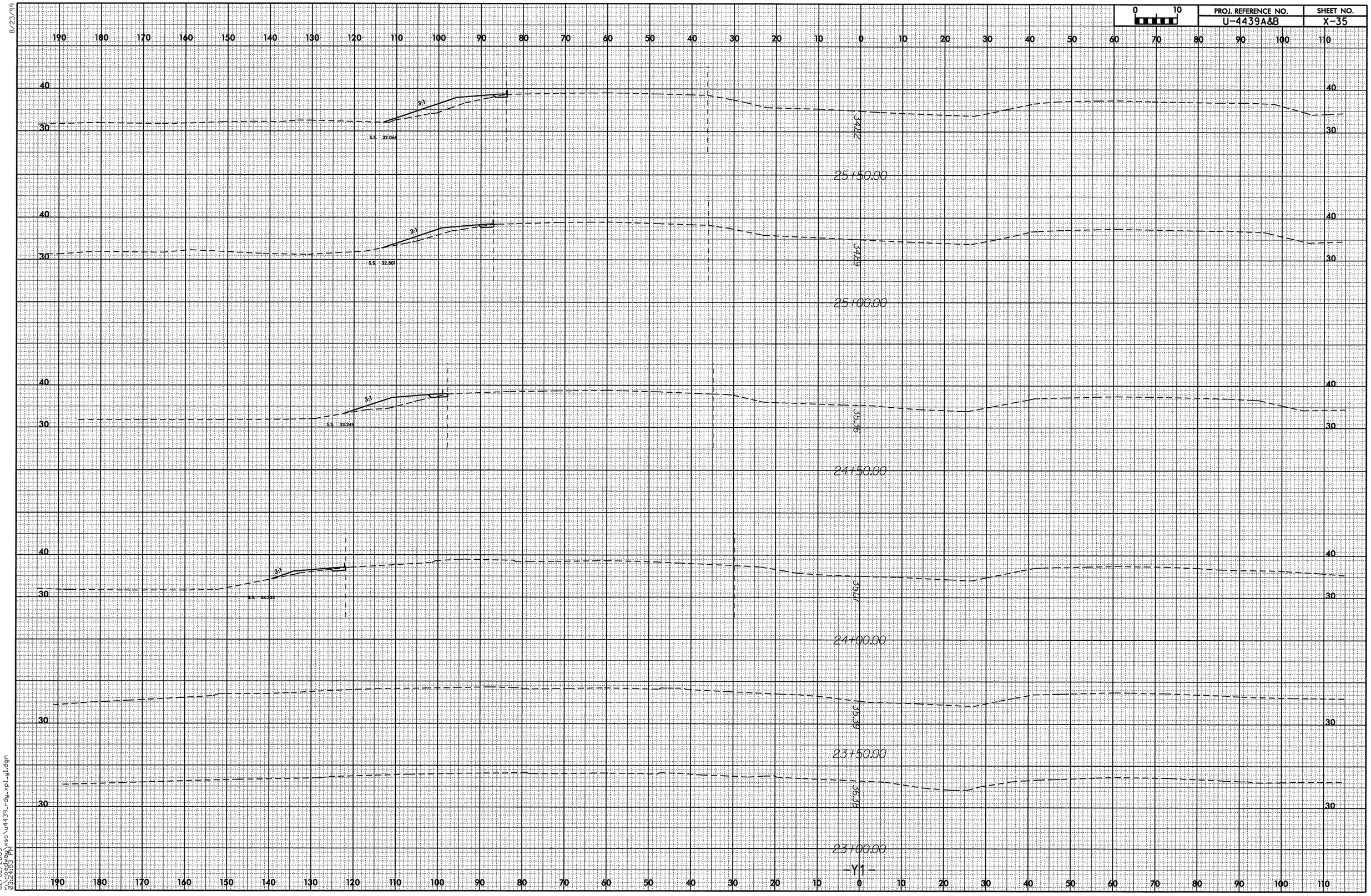

8/23/99

02/02/2005
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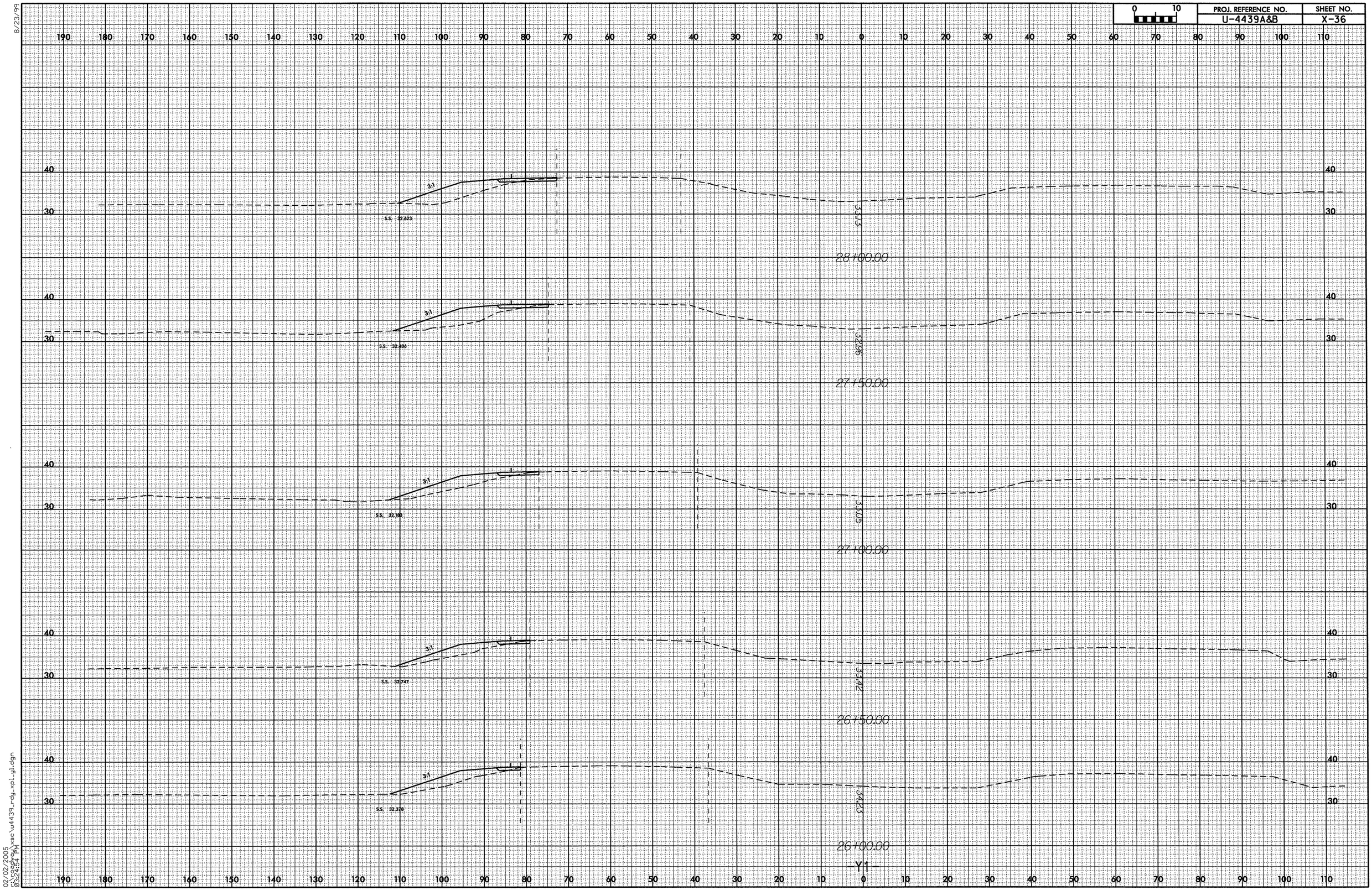

8/23/99

02/02/2005
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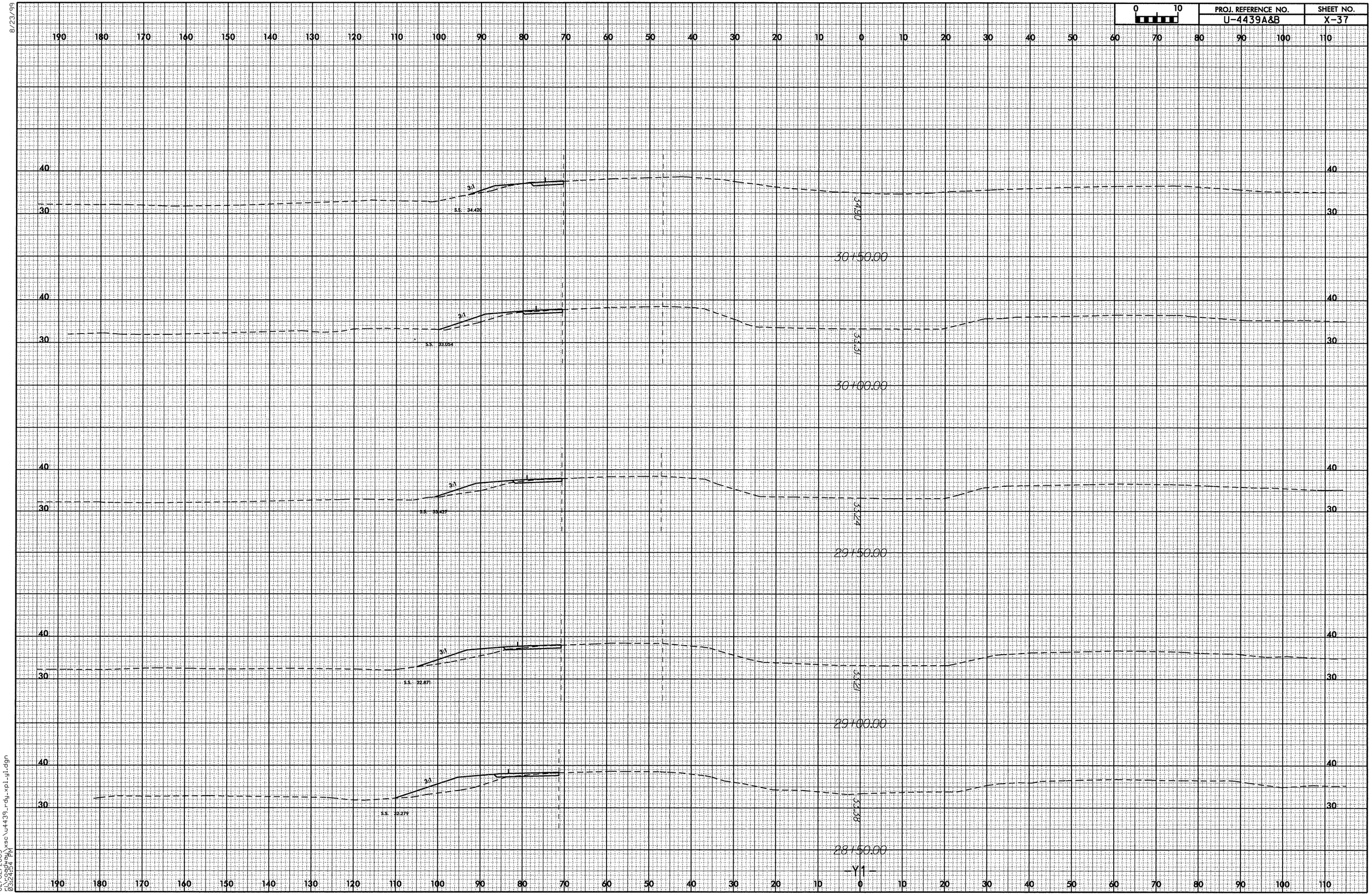

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02/02/2005
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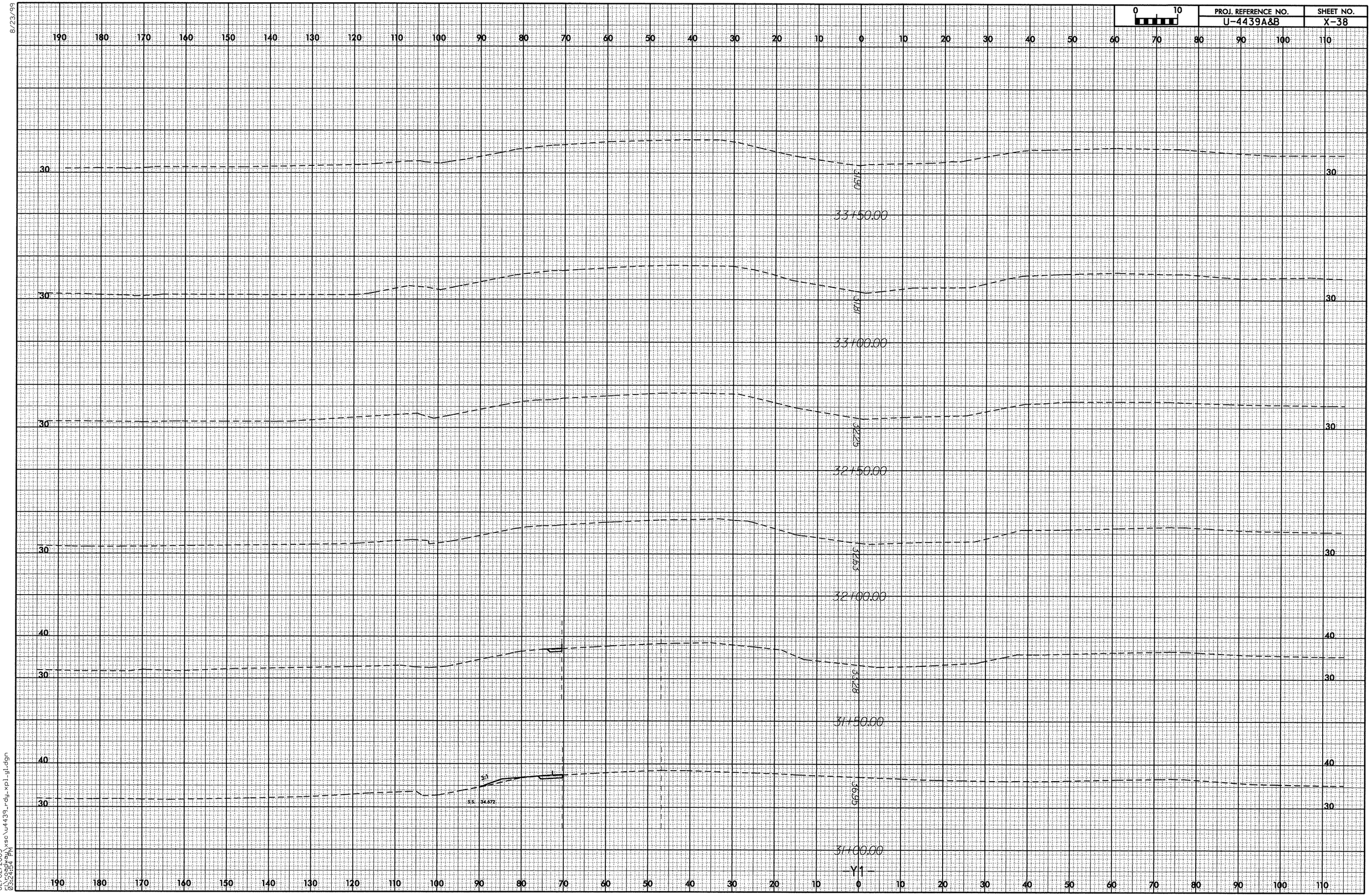

8/23/99

02/02/2005
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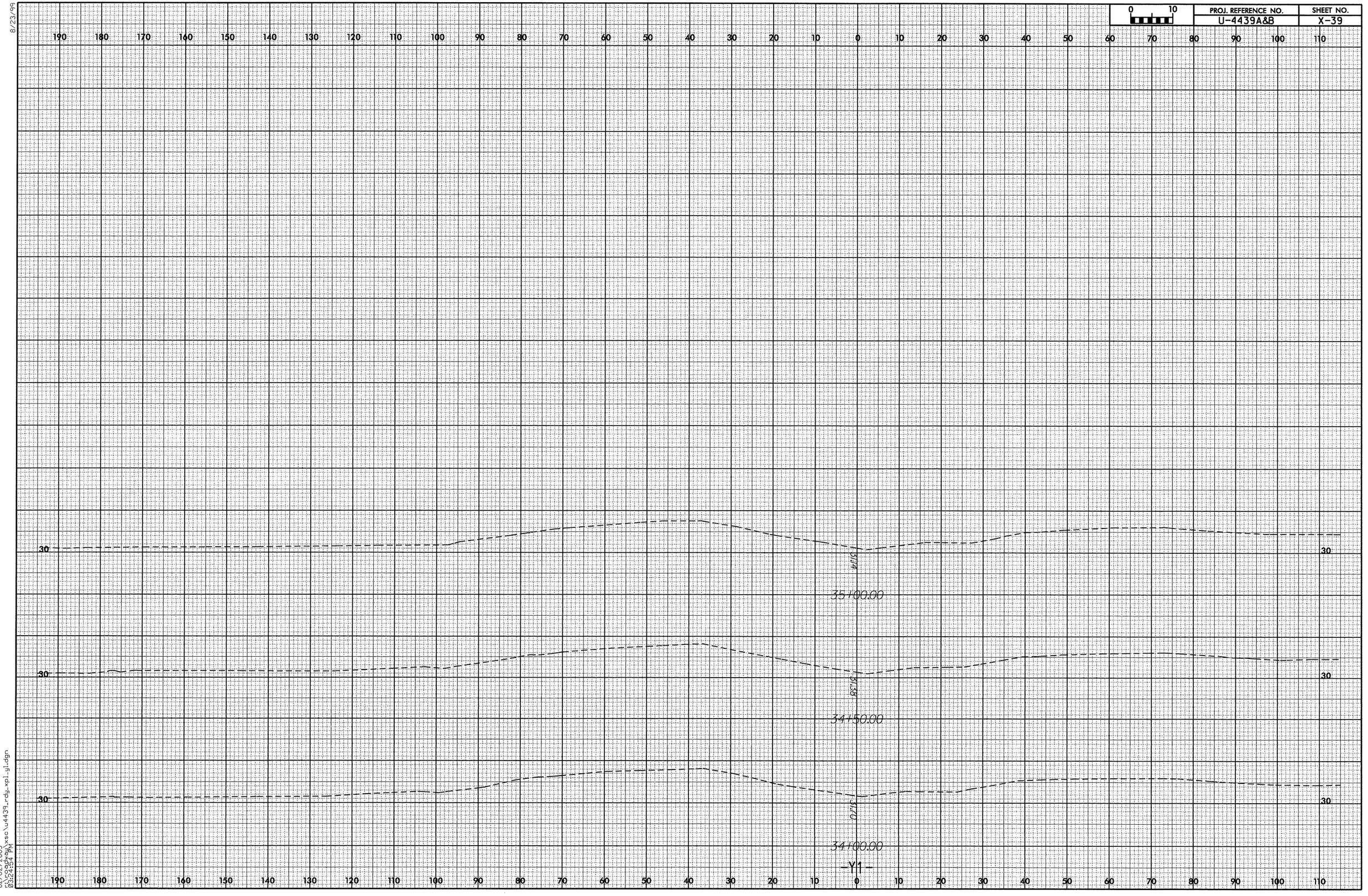

8/23/99

02/02/2005
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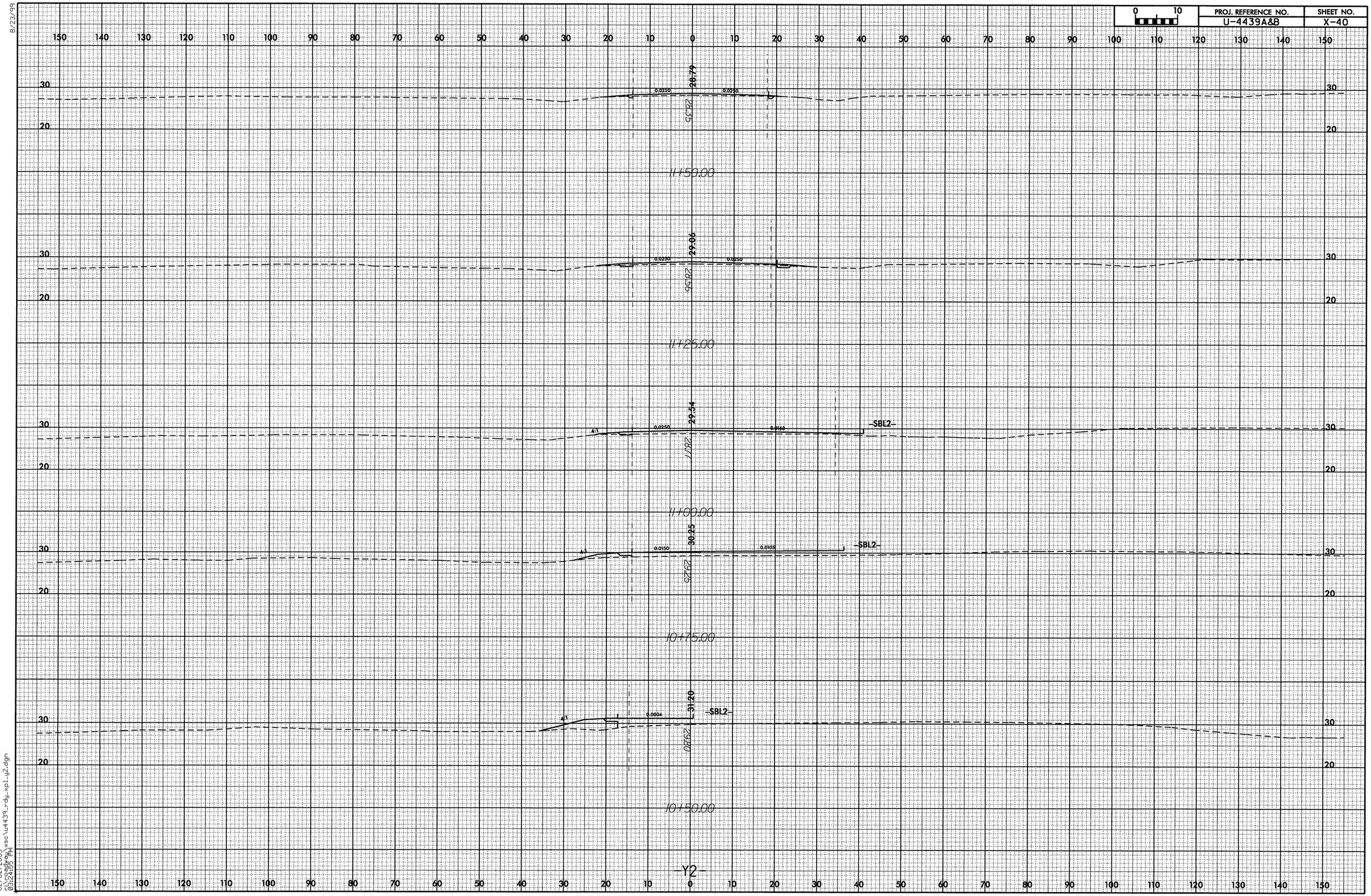

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02/02/2005
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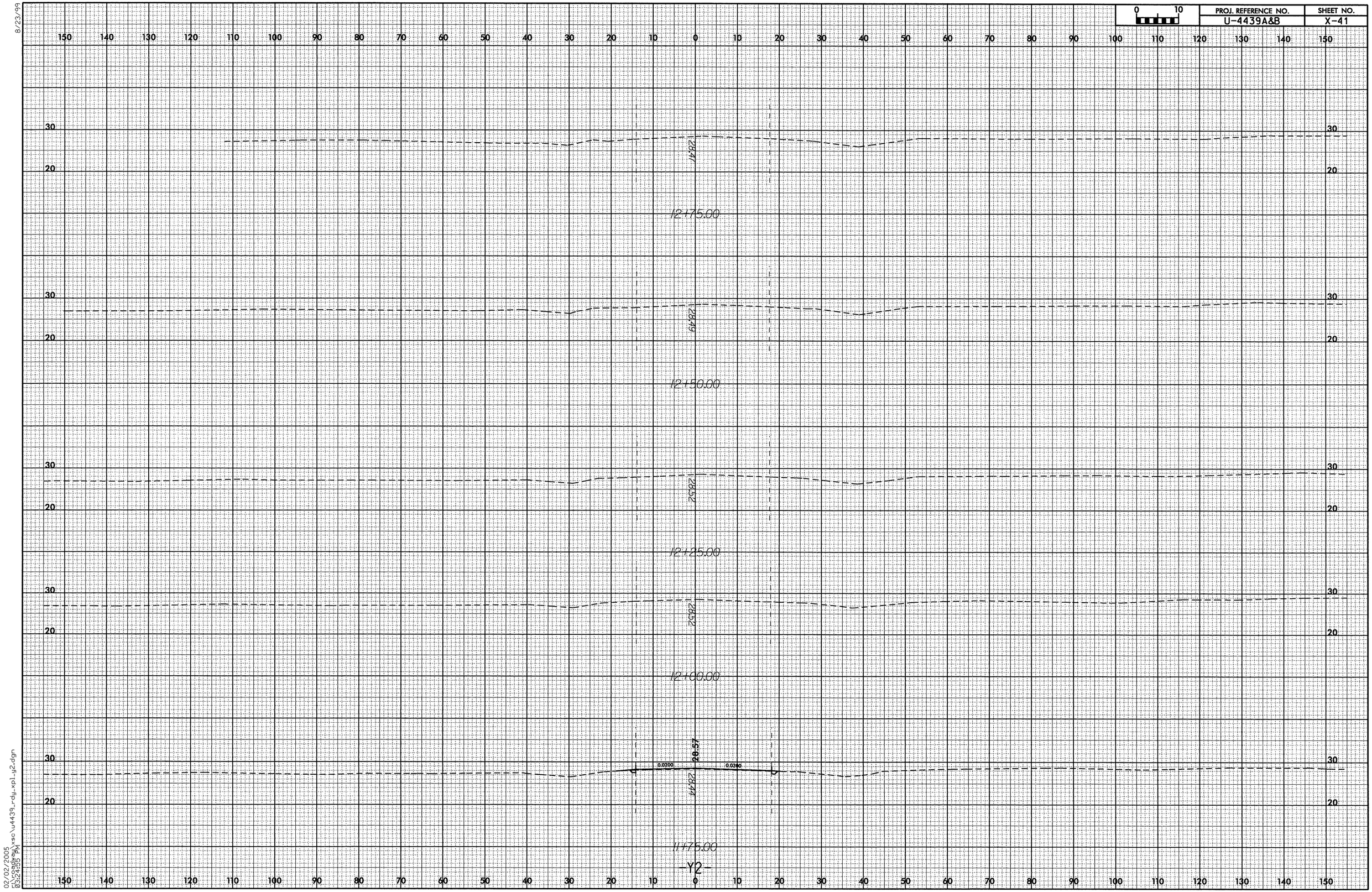

8/23/99

02/02/2005
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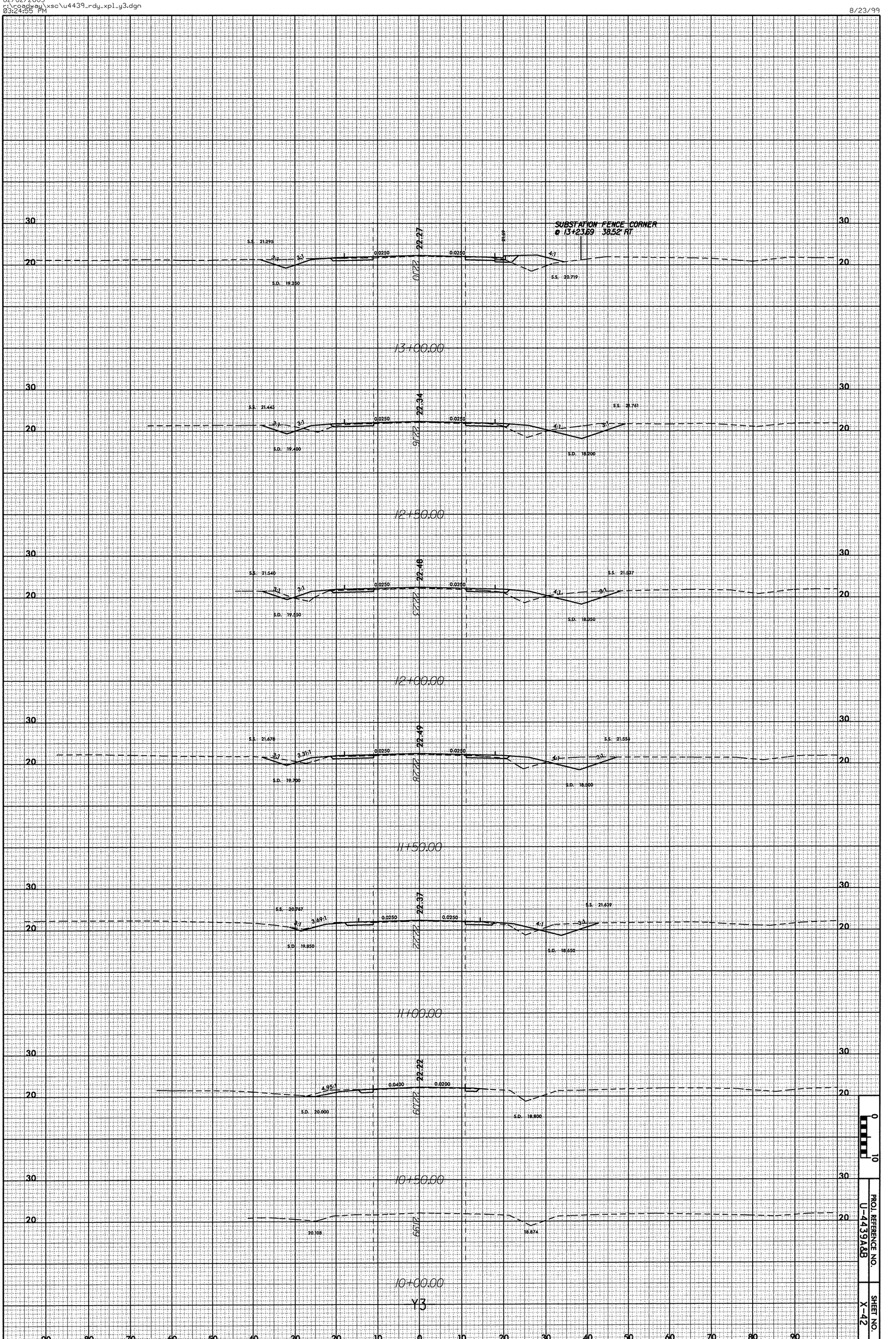
SUBSTATION FENCE CORNER
@ 13+23.69 38.52' RT.
S.S. 21.295
S.D. 19.290
0.0250
22.27
Z010
0.0250
R=50
4:1
S.S. 20.719
13+00.00
S.S. 21.443
S.D. 19.400
0.0250
22.34
Z016
0.0250
4:1
3:1
S.S. 20.761
S.D. 18.200
12+50.00
S.S. 21.540
S.D. 19.550
0.0250
22.48
Z023
0.0250
4:1
3:1
S.S. 21.537
S.D. 18.350
12+00.00
S.S. 21.678
S.D. 19.700
0.0250
22.49
Z028
0.0250
3.31:1
4:1
3:1
S.S. 21.559
S.D. 18.500
11+50.00
S.S. 20.747
S.D. 19.850
0.0250
22.31
Z022
0.0250
3.69:1
4:1
3:1
S.S. 21.639
S.D. 18.650
11+00.00
S.D. 20.000
0.0400
22.42
Z029
0.0200
4.95:1
S.D. 18.800
10+50.00
20.108
Z099
18.874
10+00.00
Y3
30
20
90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90
0
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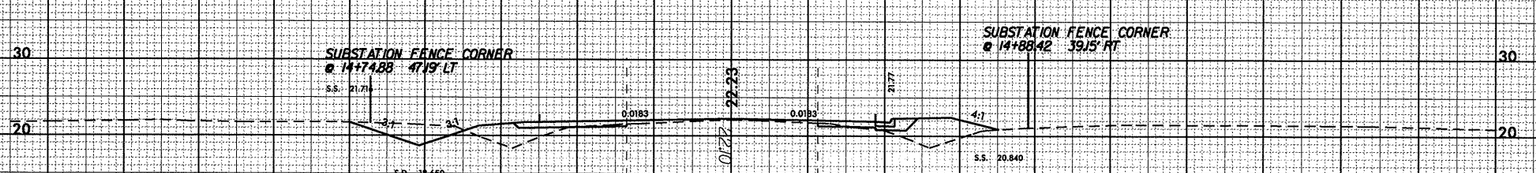
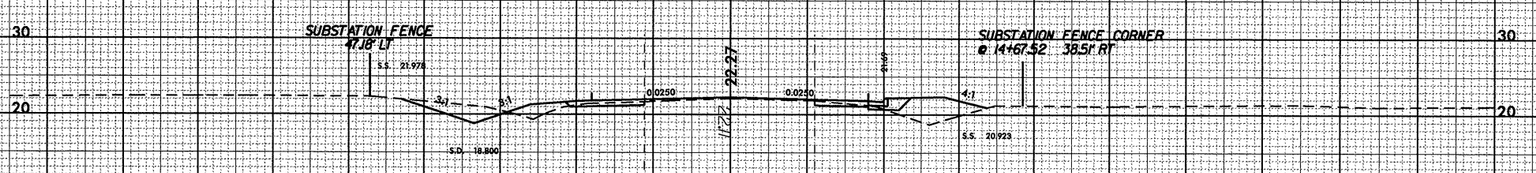
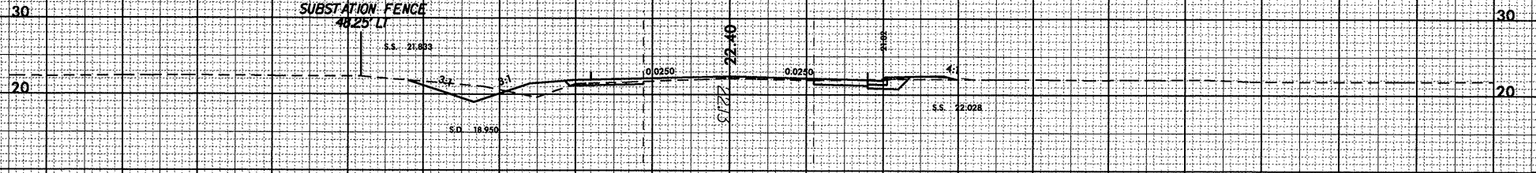
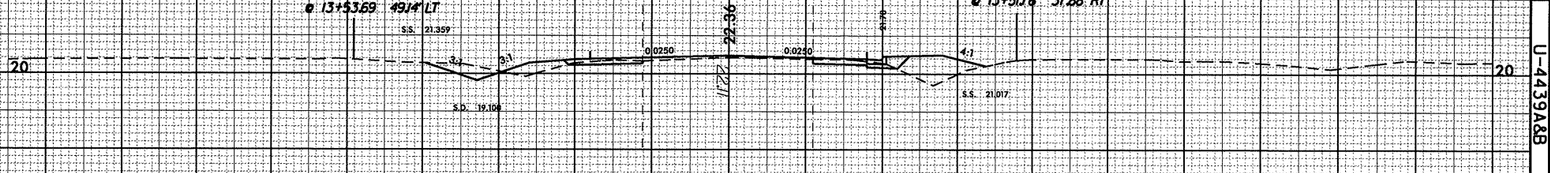
PROJ. REFERENCE NO.
U-4439A&B
SHEET NO.
X-42









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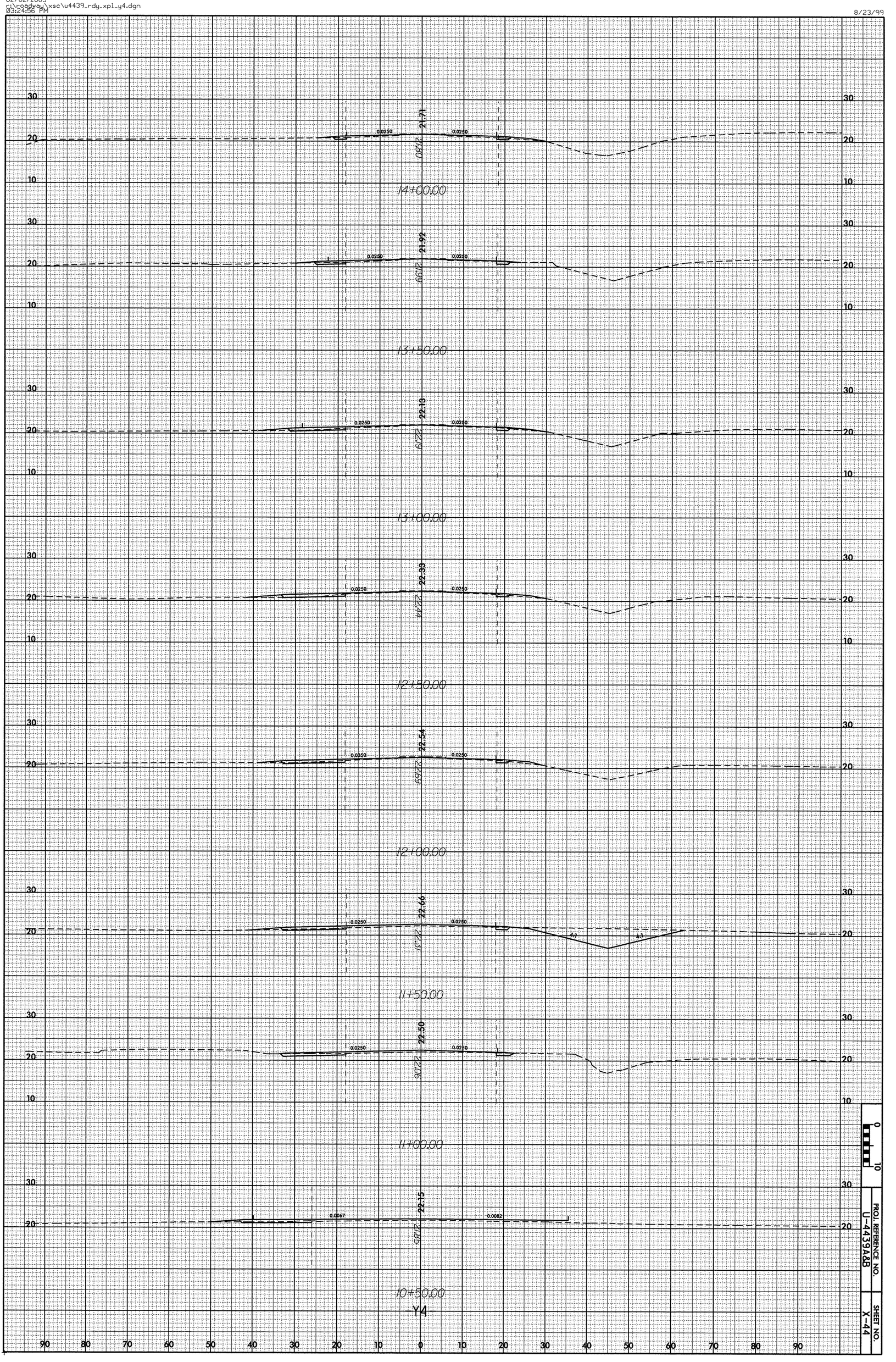
0 10

PROJ. REFERENCE NO. U-4439A&B

SHEET NO. X-43



PROJ. REFERENCE NO.	SHEET NO.
U-4439A&B	X-44

8/23/99

0 10	PROJ. REFERENCE NO.	SHEET NO.
	U-4439A&B	X-45

30 20 30 20 30 20

90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90

0.20

15+00.00

2.39

15+00.00

20.81

14+90.00

Y4

02/02/2005
C:\projects\xsc\u4439_rdy_xpl_y4.dgn
03:24:56 PM