10/26/98

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	184 OF 368

2.5 0 2.5 5

METRIC

50 40 30 20 10 0 10 20 30 40 50

755 750 745 740 735 730 725 720 715 710 705

64+50.35MRT'
35.0000

9
15
100
23
100

COLLUVIUM: BROWN SILTY S

WEATHERED ROCK

707.536

5:1

Slopestake warped To Slopestake

SS 706.05

0.0200

0.0200

708.454

5:1

706.205

-L-
64+80.00

50 40 30 20 10 0 10 20 30 40 50

04-FEB-2004 13:26
d13ga26cw1 N:\0362\26\812

10/26/98

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	185 of 368

64+80
9 M RT

707.339

RESIDUAL: RED/BRN CLAYEY/SILTY SAND

WEATHERED ROCK

706.265

5:1

6:1

Subgrade Warped to Shoestrake

SS: 708.542

64+80.00

84-FER-2004 14:27
d13ge25cu
d:\projects\2004\2004242\roadway\sht\2004242-ss-64+80.dgn

10/26/98

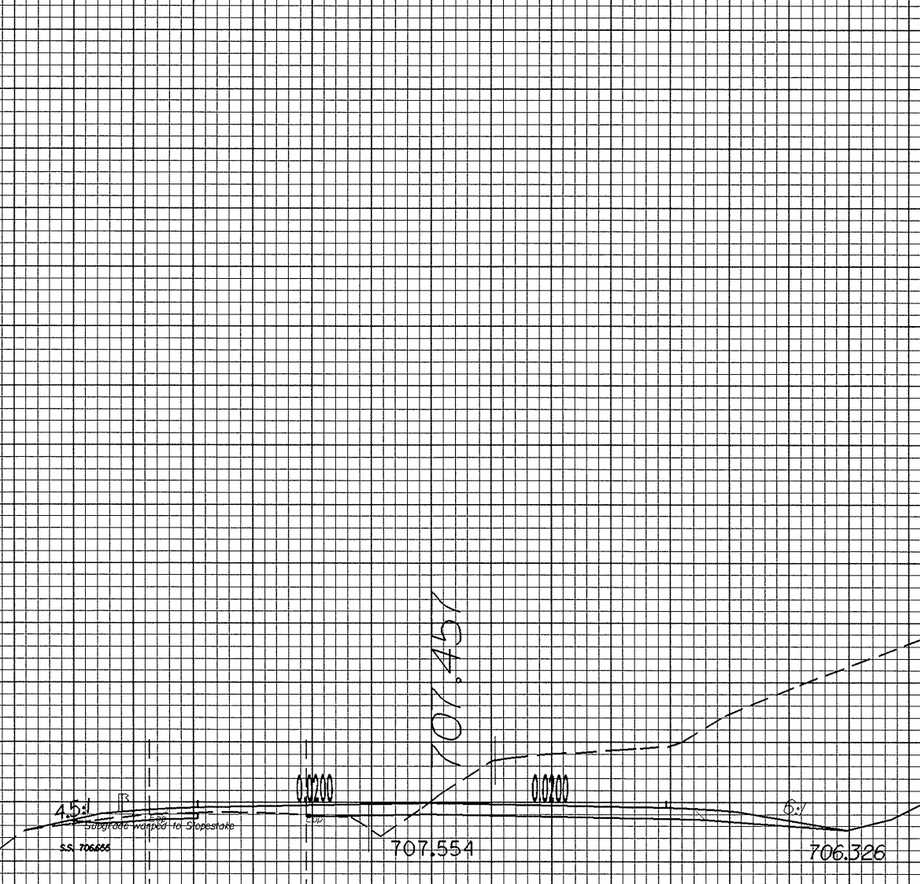
2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
B-2518A	186 of 368

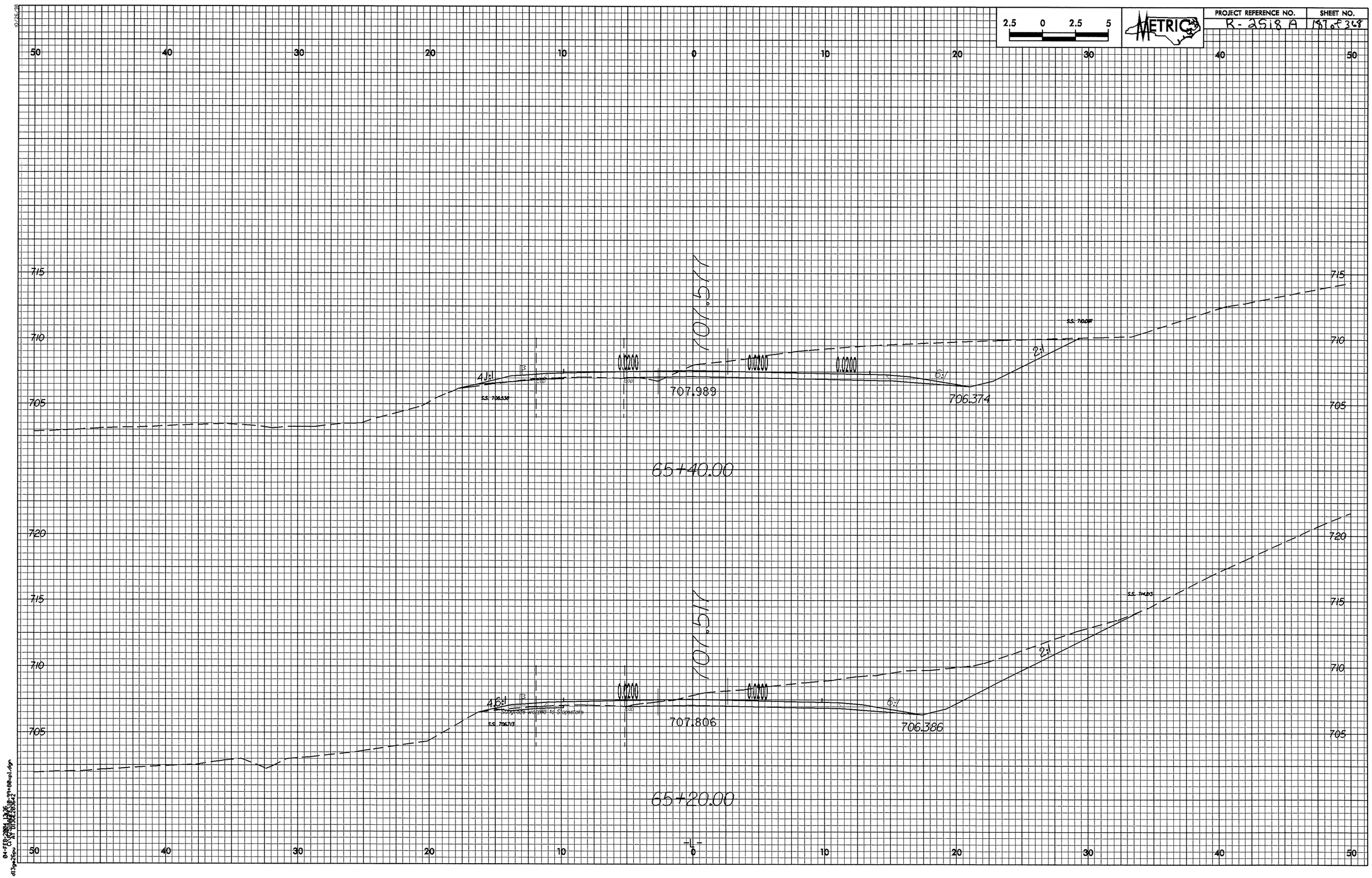
50 40 30 20 10 0 10 20 30 40 50

750 745 740 735 730 725 720 715 710 705



50 40 30 20 10 0 10 20 30 40 50

04-FEB-2004 13:28
C:\Projects\Active\B-2518A\Design\Roadway\Sheets\B2518A_SS_706655.dgn
d13pw26pw



04-FEB-2004 13:36
d13gw26su

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	186 of 368

2.5 0 2.5 5

METRIC

50 40 30 20 10 0 10 20 30 40 50

715 710 705

5:1 | 2:1 | 6:1

Subgrade warped to Slopestake

S.S. 706.85

S.S. 706.59

707.243

706.567

707.698

0.0200 | 0.0200

65+80.00

4.5:1 | 2:1 | 6:1

Subgrade warped to Slopestake

S.S. 706.735

S.S. 706.303

706.658

706.507

707.638

65+60.00

50 40 30 20 10 0 10 20 30 40 50

715 710 705

04-FEB-2014 13:35
d:\3d-26cu AT USER:203612

10/26/98

PROJECT REFERENCE NO.	SHEET NO.
R-2518 A	189 of 318

2.5 0 2.5 5

METRIC

50 40 30 20 10 0 10 20 30 40 50

720 715 710 705

66+20

24 M RT

SS. 712.82

RESIDUAL RED SILTY CLAY

SAPROLITE: LIGHT BRN SILTY SAND W/MNO

SAPROLITE: BRN MIC SILTY SAND

2:1

3 5 6 15 63 51 100

WEATHERED ROCK

6:1

0.02.00

0.02.00

5.2:1

Subgrade warped to Slopestake

SS. 708.82

708.063

706.688

708.819

66+20.00

SS. 712.82

720 715 710 705

2:1

4.2:1

Subgrade warped to Slopestake

SS. 708.84

0.02.00

0.02.00

6:1

708.039

706.627

708.159

66+00.00

50 40 30 20 10 0 10 20 30 40 50

04-FEB-2004 13:18
d13gw26cu C:\projects\2004\0403233\08-01.dgn

10/26/98

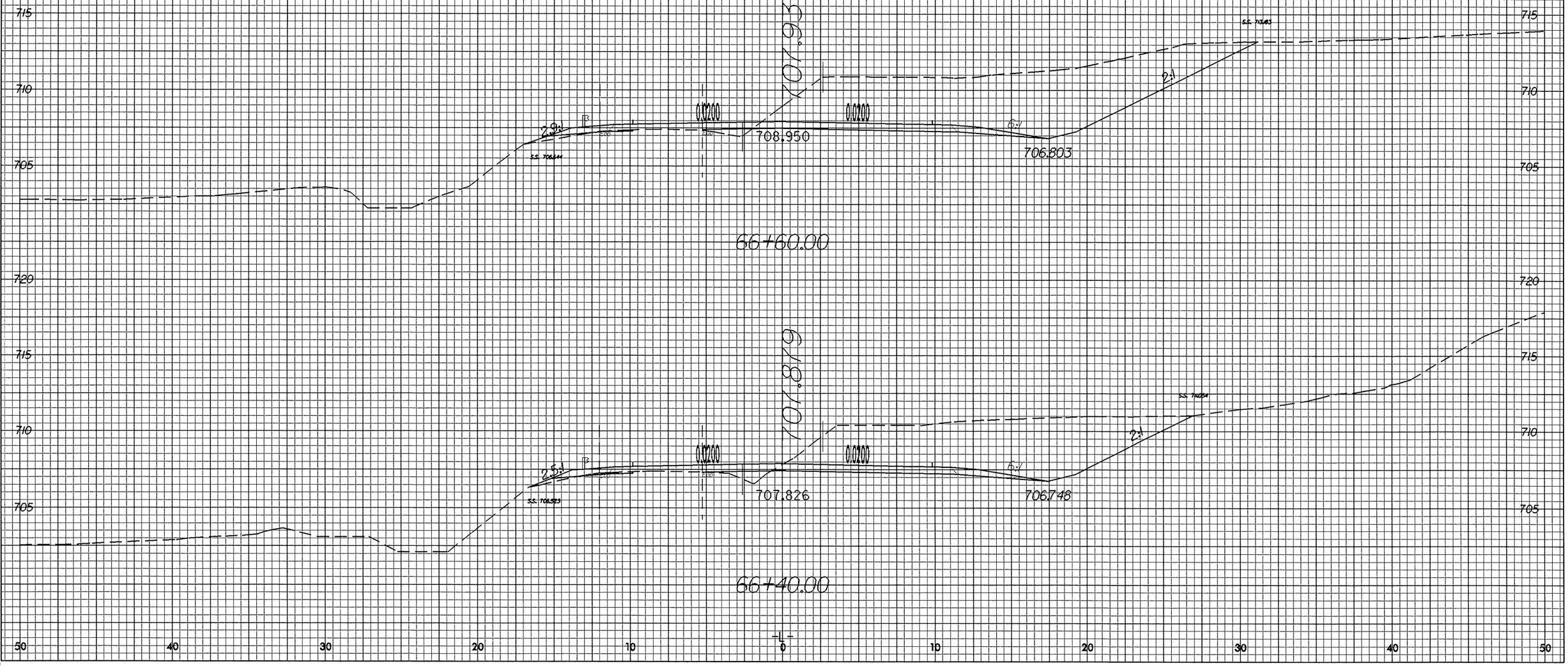
2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	190 of 368

50 40 30 20 10 0 10 20 30 40 50

715 710 705 720



04-FEB-2004 14:41
d13ga25pw1 KY DIGGE 200642
04-FEB-2004 14:39 +08:00 -dgn

10/26/98

PROJECT REFERENCE NO.	SHEET NO.
R-2518 A	191 of 368

2.5 0 2.5 5

METRIC

50 40 30 20 10 0 10 20 30 40 50

720 715 710 705

SS. 706745

2:1

0.020

0.020

709.452

6:1

706788

SS. 706746

Ditch Depth

SS. 706758

6:1

0.020

0.020

0.020

709.256

6:1

706818

SS. 711046

2:1

715 710 705

67+00.00

66+80.00

50 40 30 20 10 0 10 20 30 40 50

04-FEB-2004 14:15
d13ge25cu AT D:\SE2\2584\2-3\2-3+88-opt.dgn

10/26/98

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	192 of 368

2.5 0 2.5 5

METRIC

50 40 30 20 10 0 10 20 30 40 50

715 710 705

707.789

709.053

706.659

3.5:1

Subgrade ramped to slopestake

SS. 707.62

0.0200

0.0195

6:1

2:1

SS. 715.385

67+40.00

720 715 710 705

707.850

709.168

706.719

4:1

Subgrade ramped to slopestake

SS. 707.68

0.0200

0.0200

6:1

67+20

25 M RT

4
5
7
8
52
100
100

2:1

SAPROLITE: RED/LIGHT BRN SANDY SILT

SAPROLITE: LIGHT GRAY SLI MIC SILTY SAND

WEATHERED ROCK

SS. 720.533

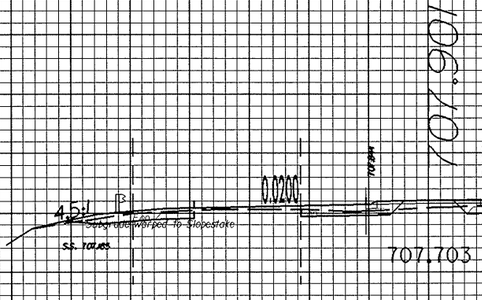
67+20.00

50 40 30 20 10 0 10 20 30 40 50

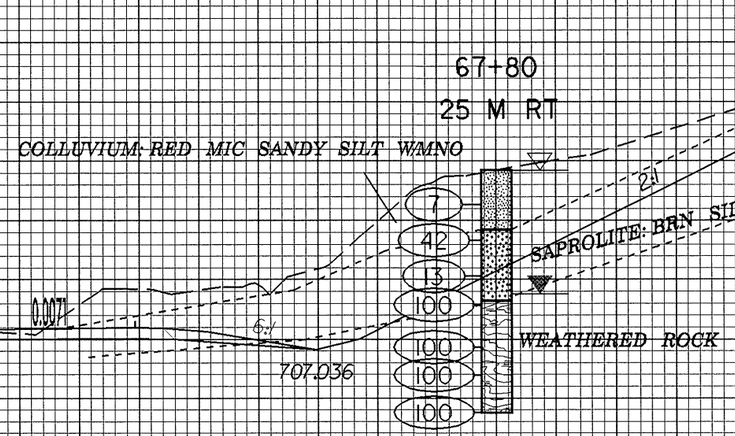
04-FEB-2004 13:45
d13pw25pw, CTP, DISE 2003.2

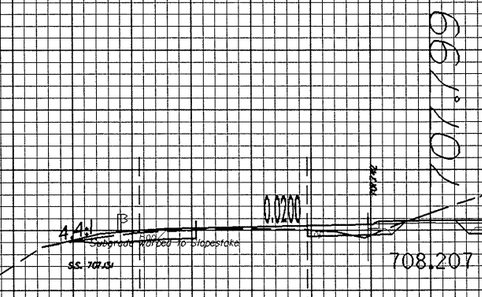
50 40 30 20 10 0 10 20 30 40 50

720 715 710 705

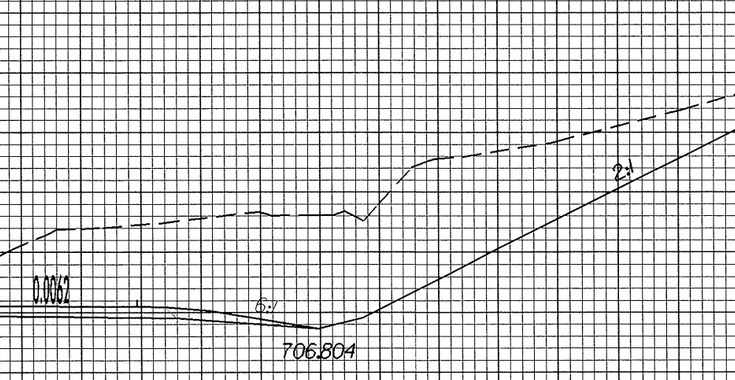


67+80.00





67+60.00



04-FEB-2004 13:47
d:\projects\r-2518a\dgn\r-2518a_sht_0308_2308+42_2308+80_01.dgn

10/26/98

2.5	0	2.5	5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	194.f 369

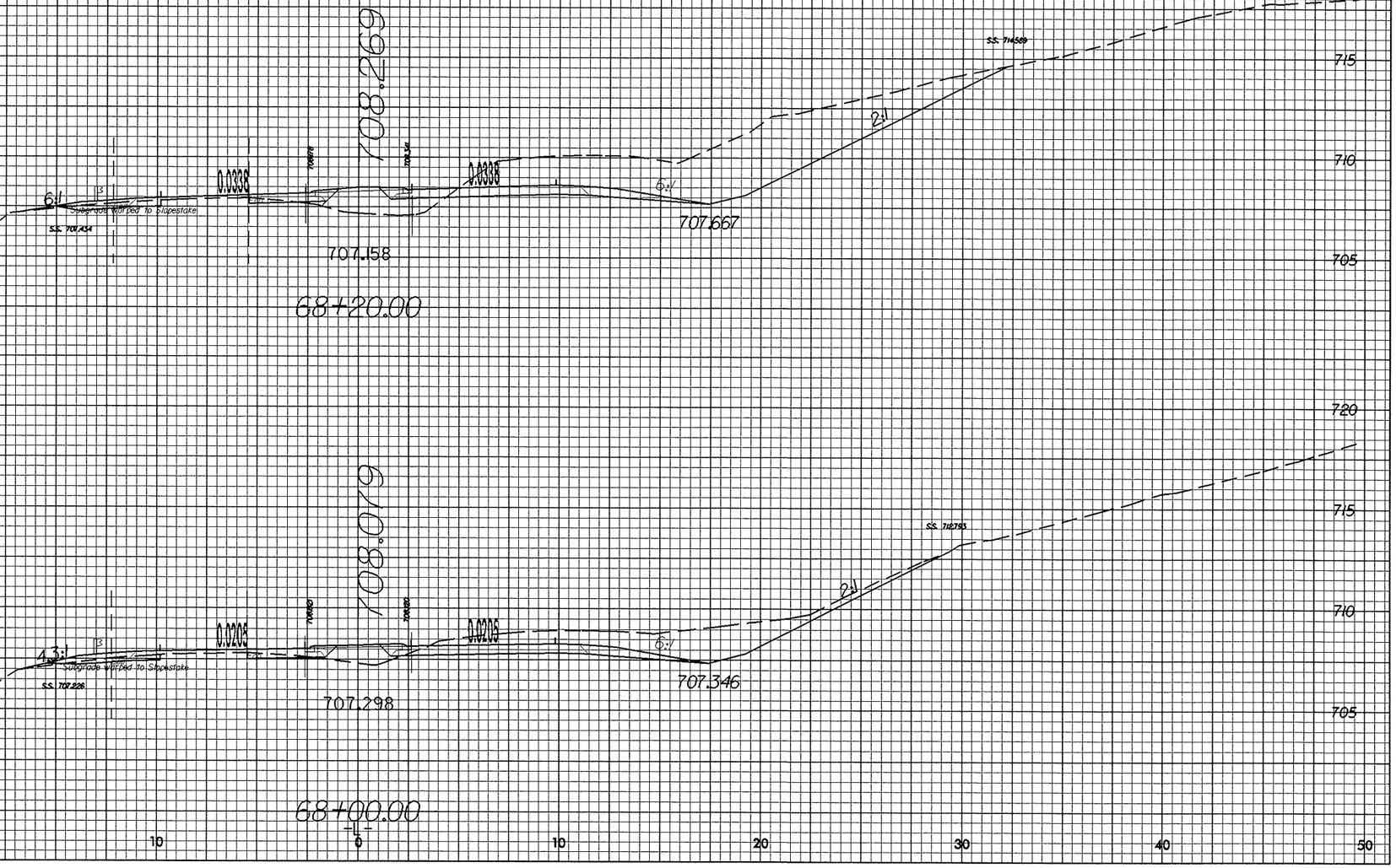
50 40 30 20 10 0 10 20 30 40 50

715 710 705

720

715 710 705

50 40 30 20 10 0 10 20 30 40 50



04-FEB-2004 13:57
d13pe26cw AT 0130E 26.0E+2
d13pe26cw_PLOT_39+80-01.dgn

10/26/98

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	195 of 363

2.5 0 2.5 5

METRIC

50 40 30 20 10 0 10 20 30 40 50

725 720 715 710 705

68+60

30 M RT

SAPROLITE: LIGHT BRN/ORGN SLI MIC SILTY SAND W/RKFRAGS

8 8 13 100 100 100

SAPROLITE: RED SLI MIC SANDY SILT W/MNO WEATHERED ROCK

2:1

6:1

0.0500

0.0500

708.649

709.276

708.287

5.7:1

Subgrade Warped To Slopestake

SS- 707.591

68+60.00

SS- 722.849

2:1

708.459

708.533

708.542

0.047

0.0500

0.0500

0.046

6:1

6:1

15'

Subgrade Warped To Slopestake

SS- 707.563

708.061

707.655

68+40.00

-L-

84-FER-2004 (253)
d13ge26pw AT 01/30/2003 8:42
10-39+80-01.dgn

10/26/98

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	196 of 368

50 40 30 20 10 0 10 20 30 40 50

725 720 715 710 705

04-FEB-2004 10:54
d:\3pw\2sou\ATTD0002\DGN\2518a-39+80-pl.dgn

10/26/98

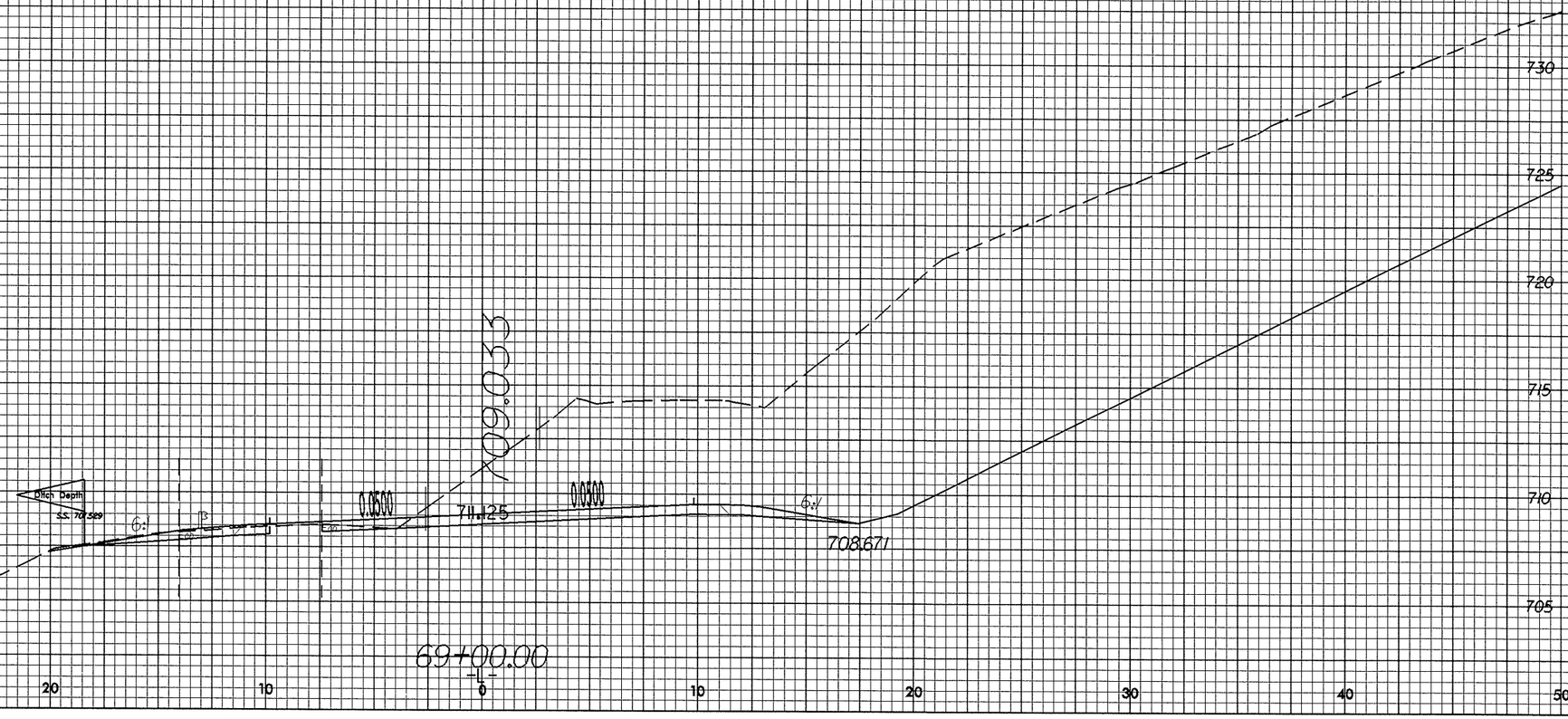
2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	197 of 368

50 40 30 20 10 0 10 20 30 40 50

740
735
730
725
720
715
710
705



50 40 30 20 10 0 10 20 30 40 50

740
735
730
725
720
715
710
705

04-FEB-2004 13:56
d13ga26cu
N:\0304203622

10/26/95

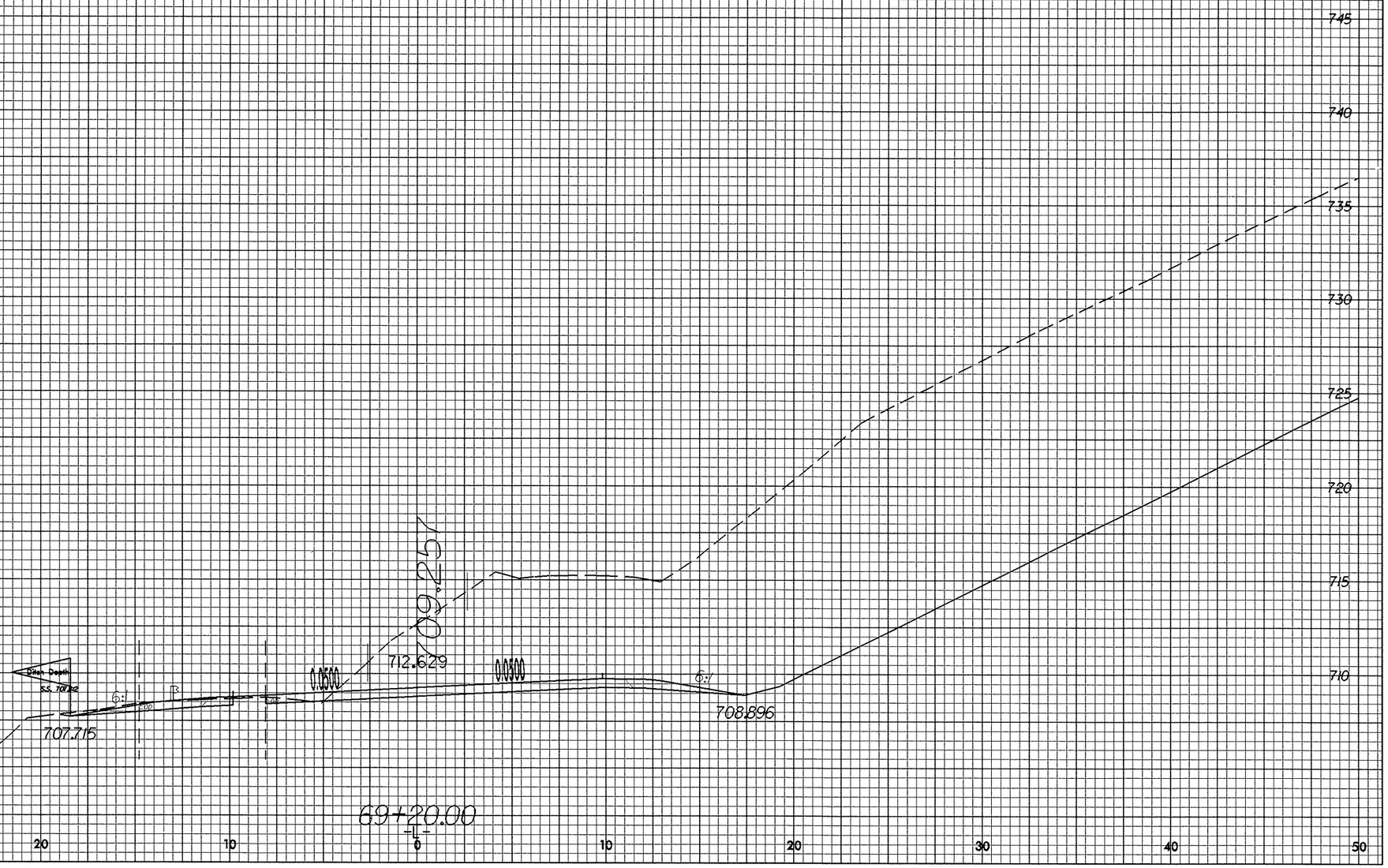
2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	198 of 368

50 40 30 20 10 0 10 20 30 40 50

750 745 740 735 730 725 720 715 710



50 40 30 20 10 0 10 20 30 40 50

04-FEB-2004 13:57
d:\3pw_26\w_work\r2518a\r2518a_39+80+01.dgn

10/26/98

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	199 of 368

50 40 30 20 10 0 10 20 30 40 50

755
750
745
740
735
730
725
720
715
710

Ditch Depth
S.S. 708.80

C.L.

712.303

709.517

0.0500

0.0300

707.975

709156

69+40.00

84-FER-2814 (SUB)
CT-3108E20(12)
d13ge26ce

50 40 30 20 10 0 10 20 30 40 50

10/26/89

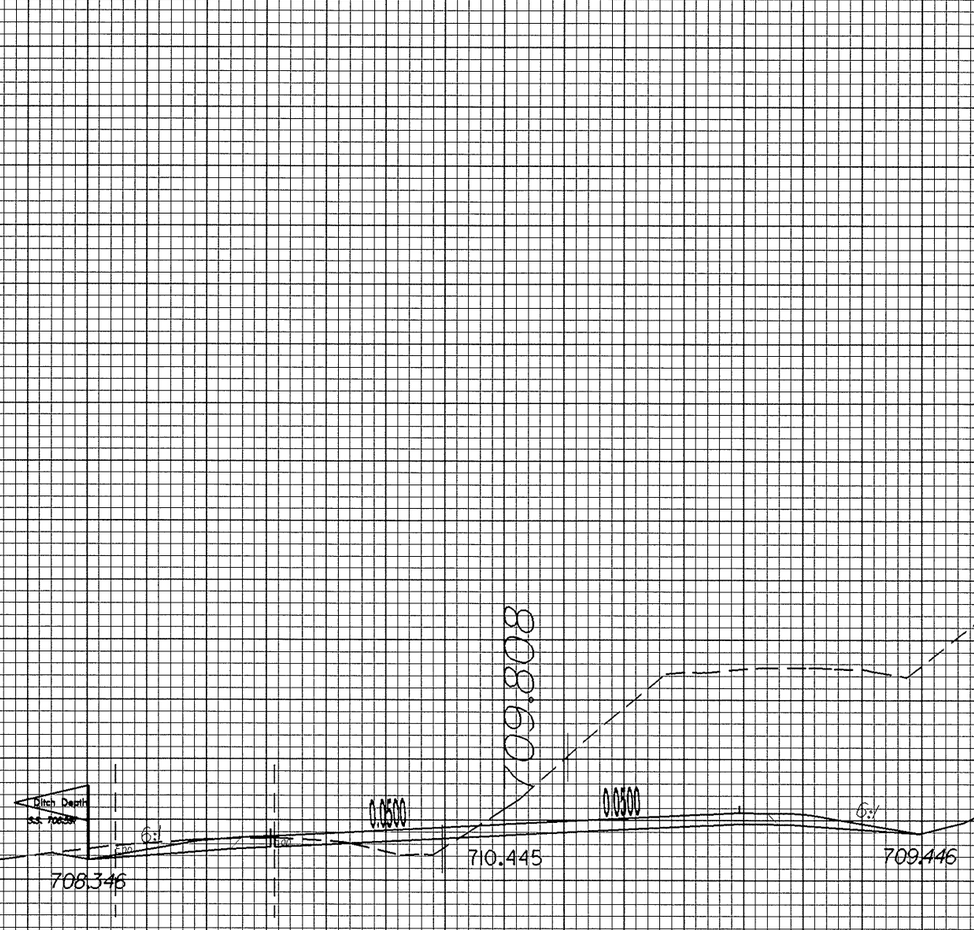
2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	200 of 368

50 40 30 20 10 0 10 20 30 40 50

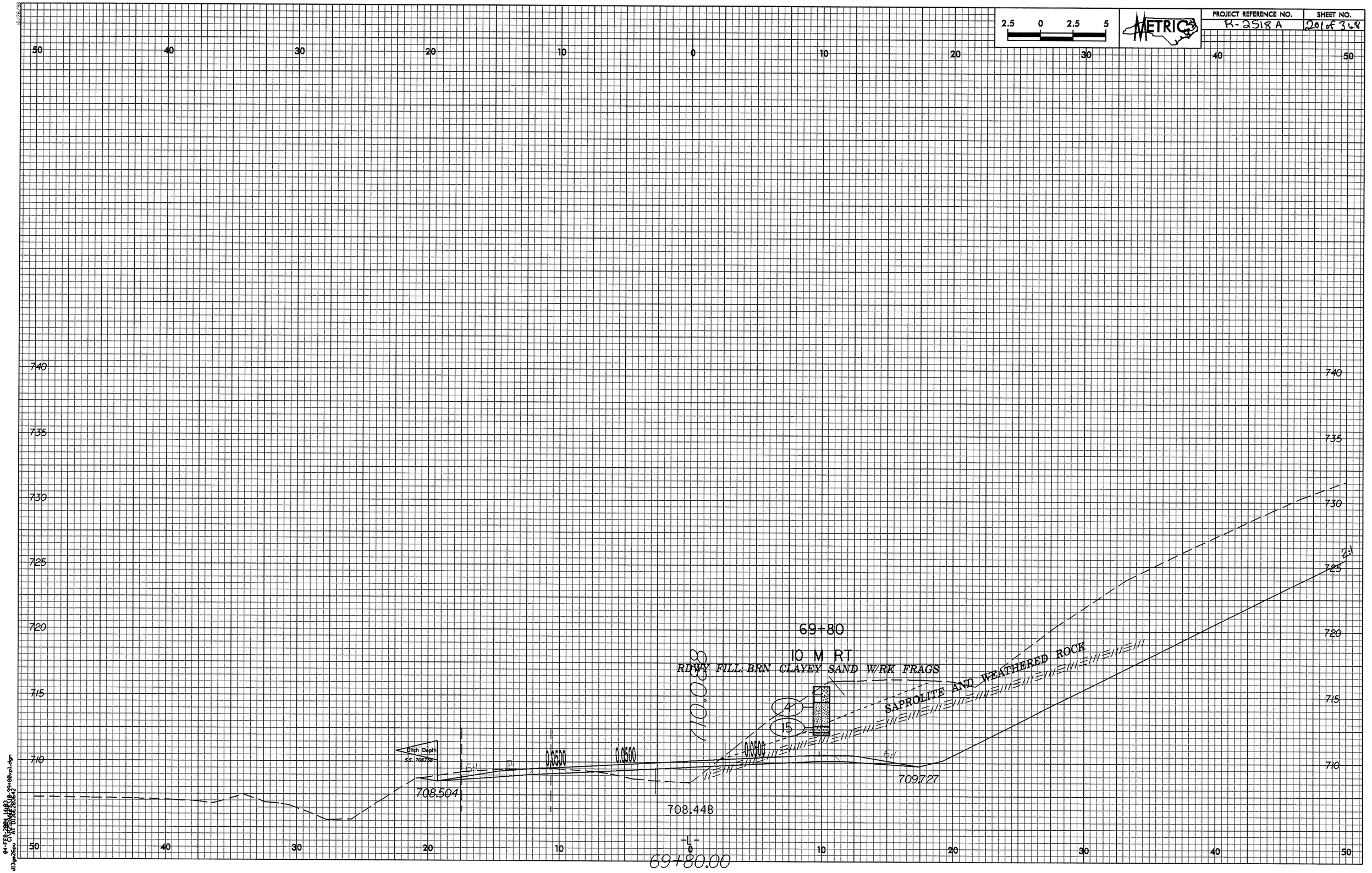
750 745 740 735 730 725 720 715 710



69+60.00

50 40 30 20 10 0 10 20 30 40 50

04-FEB-2004 14:20
d13se25pw AT D3SE203E.z2
d13se25pw 69+68-pl.dgn



04-FEB-2004 14:03
C:\Projects\2518a\roadway\dgn\2518a_29+80_pl.dgn
dl3qa2scu

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	202 of 368

720
715
710
705

50 40 30 20 10 0 10 20 30 40 50

SS. 709344

6:1 6:1

709.307

0.1500 0.0300

S

70+40

15 M RT

SS. 70928

13

100

707.938

ALLUVIUM: GRAY SILTY COARSE SAND W/GRAVEL
WEATHERED ROCK W/SAPROLITE SEAMS

710.169

70+40.00

SS. 70936

6:1 6:1

709.099

0.1500 0.0300

S

2:1

SS. 705222

707.185

710.561

70+20.00

725
720
715
710
705

Ditch Depth

SS. 70867

6:1 6:1

0.1500 0.1500 0.0300

6:1

2:1

SS. 78483

709.978

707.115

710.339

70+00.00

04-FEB-2004 14:10
d13pe26cu
C:\projects\R-2518A\roadway\sheets\R2518A_33+88_rp1.dgn
RT DISTRICT 2 05x12

10/26/98

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	203 of 368

2.5 0 2.5 5

METRIC

50 40 30 20 10 0 10 20 30 40 50

715 710 705 720

L1 = 39.91'

SS 710306

6:1 6:1

0.0223 0.0223

710.235

3.65:1

SS 708576

708.981

11+00.00

L2 = 98.34'

70+80

20 M RT

3.34:1

0.0356 0.0356

SS 710334

6:1 6:1

709.880

708.601

SS 708376

ALLUVIUM: BRN SILTY SAND W/GRAVEL

SAPROLITE: GRAY/WHITE SLI MIC SANDY SILT

15 10 12

70+80.00

L3 = 110.96'

0.0489 0.0489

SS 710266

6:1 6:1

709.526

2:1

708.135

SS 708226

-L-

70+60.00

04-FEB-2004 11:23
d13se2sou AT 0.5022 0.5018 29+80-01.dgn

10/26/98

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	204 of 368

2.5 0 2.5 5

METRIC

50 40 30 20 10 0 10 20 30 40 50

720
715
710
705

711+93.34

SS. 711.72

6:1 6:1

711.173

0.0177 0.0177 0.0177

710.018

71+60
20 M RT

5.49:1

36
25
47

SS. 709.82

ALLUVIUM: BRN SILTY SAND W/RK FRAGS

SAPROLITE: GRAY/LIGHT BROWN SILTY COARSE SAND W/QUARTZ FR.

711+60.00

711+88.96

SS. 711.489

6:1 6:1

710.895

0.0044 0.0044

4.66:1

SS. 709.643

709.835

711+40.00

711+65.99

SS. 711.105

6:1 6:1

710.576

0.0089 0.0089

4.39:1

SS. 709.456

709.402

711+20.00

50 40 30 20 10 0 10 20 30 40 50

04-FEB-2000 11:24
d13pw25pw, RT USE 2838+12
d13pw25pw_RT_USE_2838+12_39+88-01.dgn

10/26/98

PROJECT REFERENCE NO.	SHEET NO.
R-2518 A	205 of 368

2.5 0 2.5 5

METRIC

50 40 30 20 10 0 10 20 30 40 50

720 715 710

SS. 711.595
6:1
6:1
0.0577
712.121
712.389
712.235
0.0577
Ditch Depth
SS. 710.922
6:1
710.842
710.811

72+20.00

SS. 710.228
6:1
6:1
0.0444
711.743
712.259
712.105
0.0444
6:1
Subgrade warped to Slopestake
SS. 710.174
710.597

72+00.00

SS. 711.296
6:1
6:1
0.0311
711.412
712.047
711.897
0.0311
6:1
SS. 710.305
710.349

71+80.00

50 40 30 20 10 0 10 20 30 40 50

84-FEB-2004 11:33
d13gm26cw

10/26/98

PROJECT REFERENCE NO.	SHEET NO.
R-2518 A	206 & 368

2.5 0 2.5 5

METRIC

50 40 30 20 10 0 10 20 30 40 50

730 725 720 715 710

SS. 721.85

72+80
15 M RT

713.590

SS. 713.54

6:1

713.149

0.0600

713.438

100

WEATHERED ROCK

6:1

711.818

2:1

12+80.00

713.042

SS. 713.848

6:1

712.801

0.0600

712.859

711.470

SS. 714.35

2:1

12+60.00

712.694

SS. 712.853

6:1

712.453

0.0600

711.050

711.122

SS. 712.682

2.68:1

12+40.00

04-FEB-2004 11:41
d13gw25cu

2.5 0 2.5 5

METRIC

50 40 30 20 10 0 10 20 30 40 50

725 720 715

SS. 714.29

6:1

713.845

0.0600

718.571

0.0600

6:1

712.514

2:1

SS. 716.08

13+20.00

SS. 713.901

6:1

713.497

0.0600

716.425

0.0600

6:1

712.166

2:1

SS. 716.08

13+00.00

04-FEB-2004 11:45
C:\projects\r2518a\r2518a-99-60-pl.dgn
dl3pw26cu

10/26/98

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	208 of 368

2.5 0 2.5 5

METRIC

50 40 30 20 10 0 10 20 30 40 50

740 735 730 725 720 715

SS 16+00

6:1

6:1

714.541

0.0600

719.088

719.088

0.0600

6:1

713.210

2:1

13+60.00

735 730 725 720 715

SS 14+60

6:1

6:1

714.193

0.0600

718.674

718.674

0.0600

6:1

712.862

2:1

13+40.00

50 40 30 20 10 0 10 20 30 40 50

04-FEB-2004 11:47
d13pw25pw, CT 0.982 20.0 13+39+60+01.dgn
NT 0.982 20.0 42

10/26/98

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	209 OF 368

50 40 30 20 10 0 10 20 30 40 50

745 745

740 740

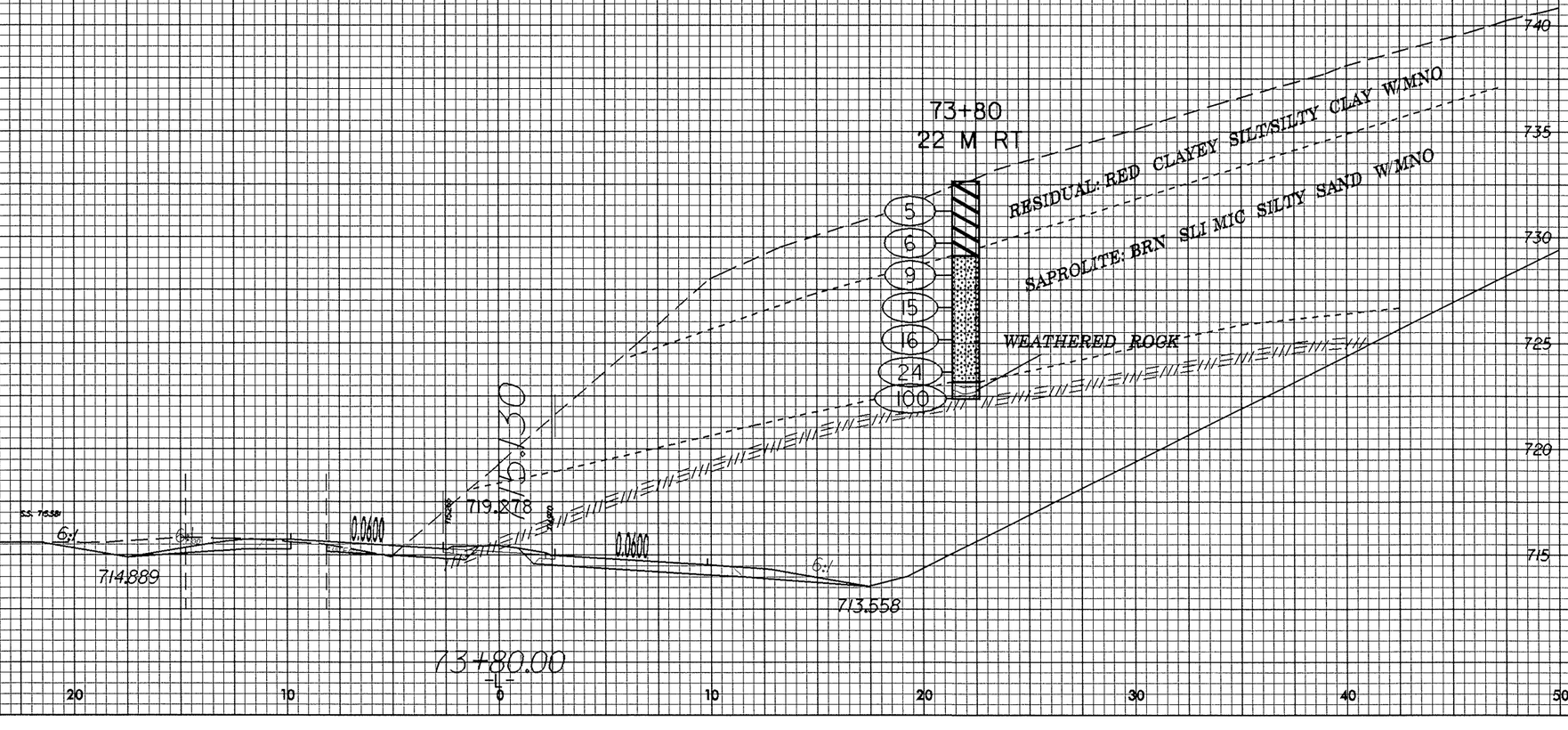
735 735

730 730

725 725

720 720

715 715



50 40 30 20 10 0 10 20 30 40 50

04-FEB-2004 14:49
d13se2cpw\c\projects\2518a\sht\2518a-sht-37+80-01.dgn
RT 01 3DE2 2DE2

10/26/98

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	210 of 368

50 40 30 20 10 0 10 20 30 40 50

750 745 740 735 730 725 720 715

SS 76+40

6:1

715.237

0.0600

719.539

719.539

0.0600

6:1

713.906

74+00.00

50 40 30 20 10 0 10 20 30 40 50

750 745 740 735 730 725 720 715

04-FEB-2004 11:52
d13se26sw AT 0153e26d3e2

I:\projects\2518a\roadway\sheets\2518a_ss_76+40_01.dgn

10/26/98

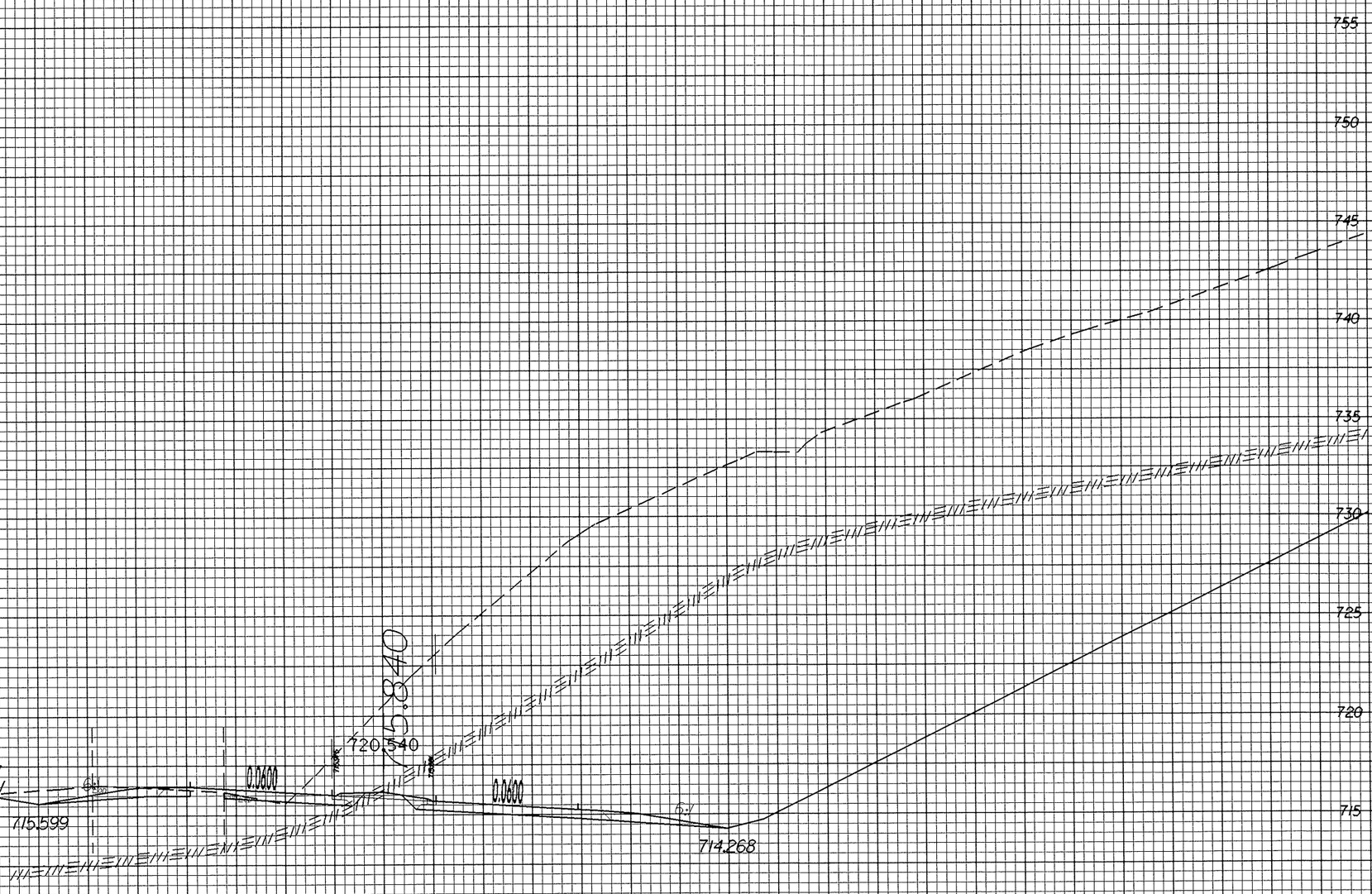
2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
B-2518A	211 of 368

50 40 30 20 10 0 10 20 30 40 50

755
750
745
740
735
730
725
720
715



50 40 30 20 10 0 10 20 30 40 50

04-FEB-2004 11:53
d13sw26cu C:\projects\b2518a\roadway\sheets\b2518a_sht088-01.dgn

10/26/98

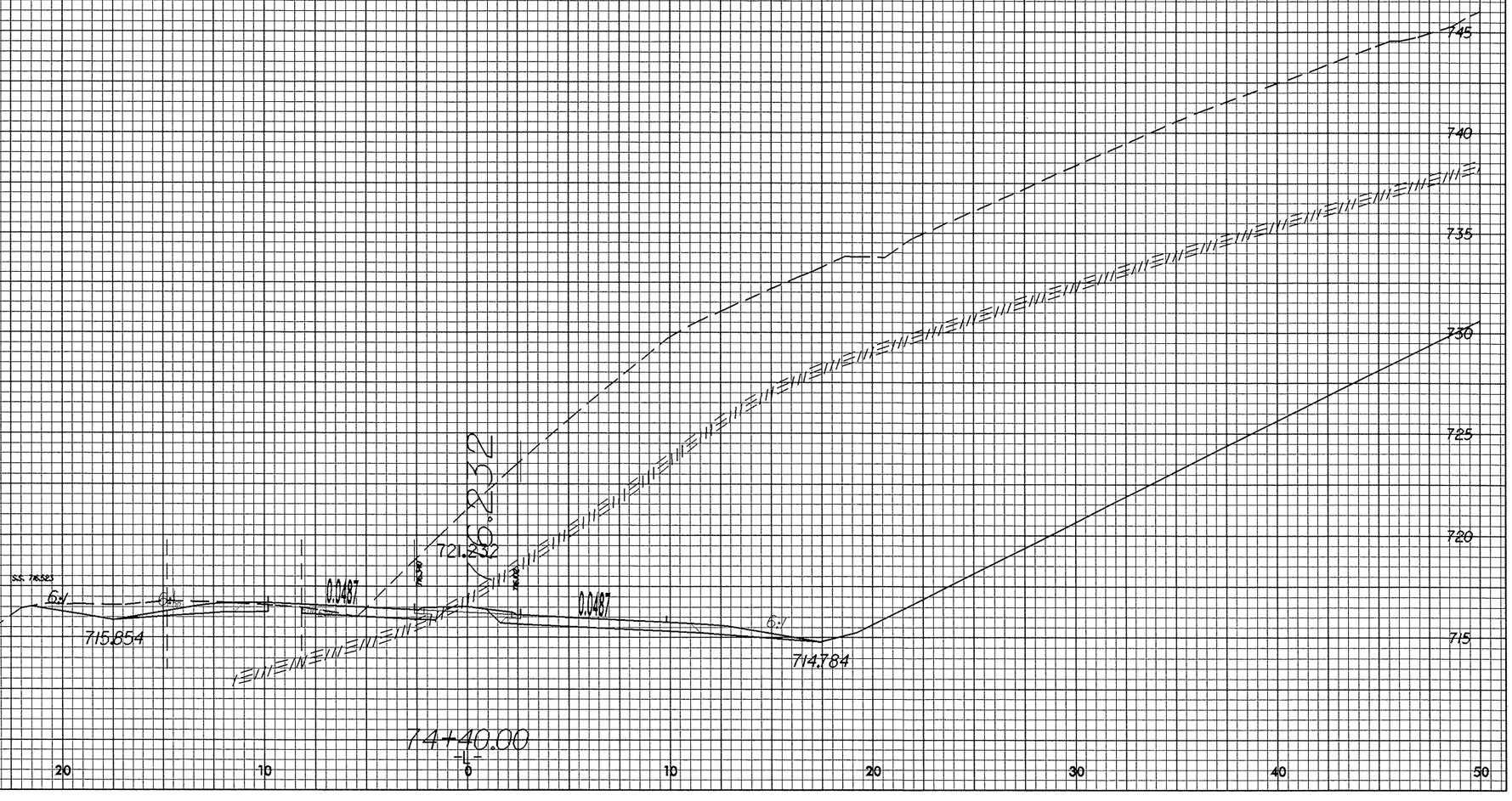
2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	212 OF 368

50 40 30 20 10 0 10 20 30 40 50

755 750 745 740 735 730 725 720 715



50 40 30 20 10 0 10 20 30 40 50

04-FEB-2004 12:38
K:\DOT\SECTION\18_39+80.01.dgn
d13ep2cnu

10/26/98

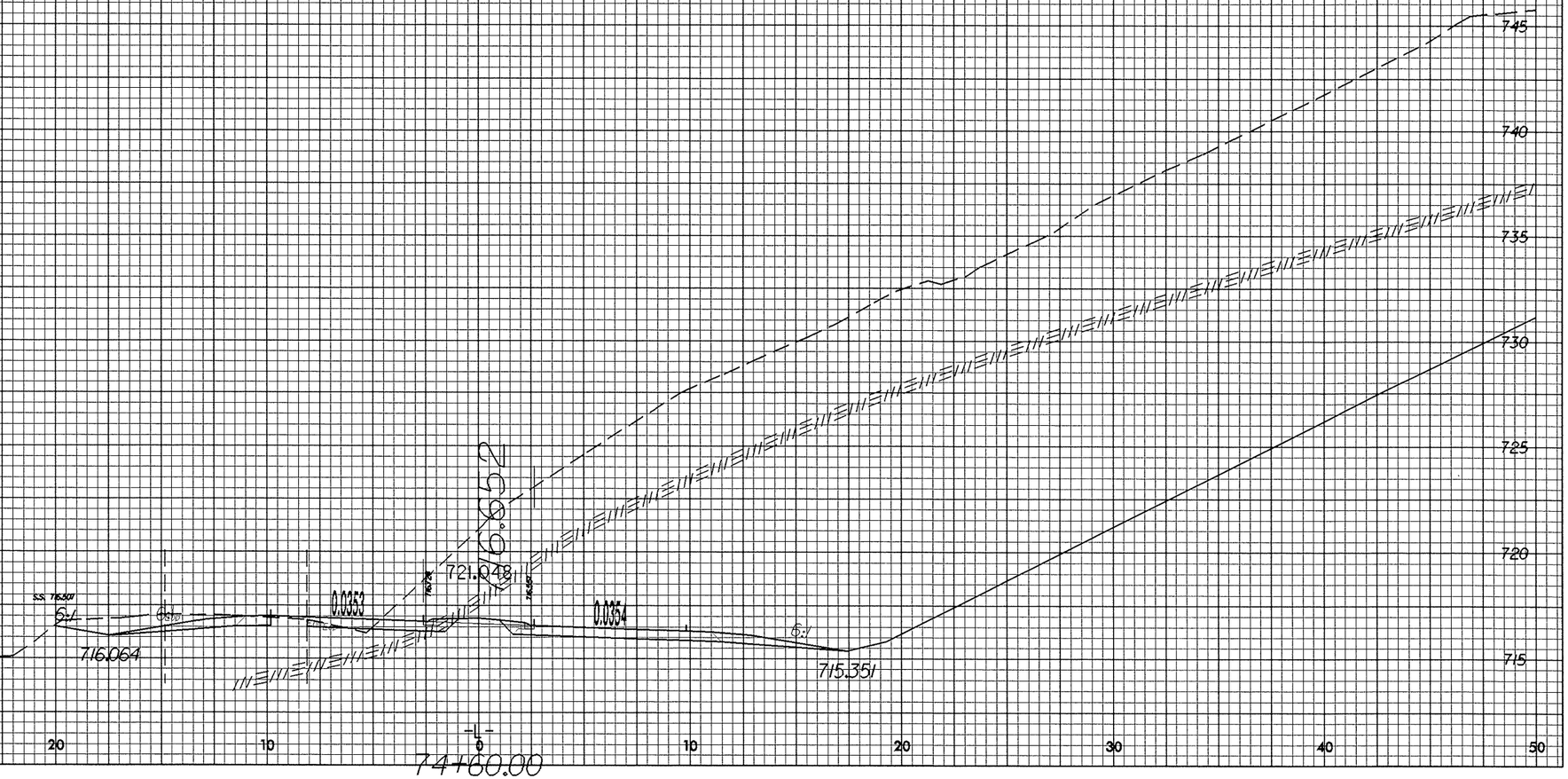
2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	213 OF 348

50 40 30 20 10 0 10 20 30 40 50

760 755 750 745 740 735 730 725 720 715



04-FEB-2004 12:44
C:\projects\2003\2003342\roadway\sheets\2003342_39+68roll.dgn
d13ew2bow

10/26/98

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	24 of 368

74+80
21M RT

COLLUVIUM: BRN SANDY SILT W/RK FRAGS

SAPROLITE: LIGHT/DARK BRN SILTY SAND W/MNO

7
34
70

Ditch Depth
SS: 7.65%

6:1

0.020

720.484

0.020

6:1

716.368

715.933

74+80.00

84-FEB-2004 12:10
d13se26cu
04-FEB-2004 12:10
M:\DGN\2518A\roadway\sht\2518a_sht_39+80_ol.dgn

10/26/98

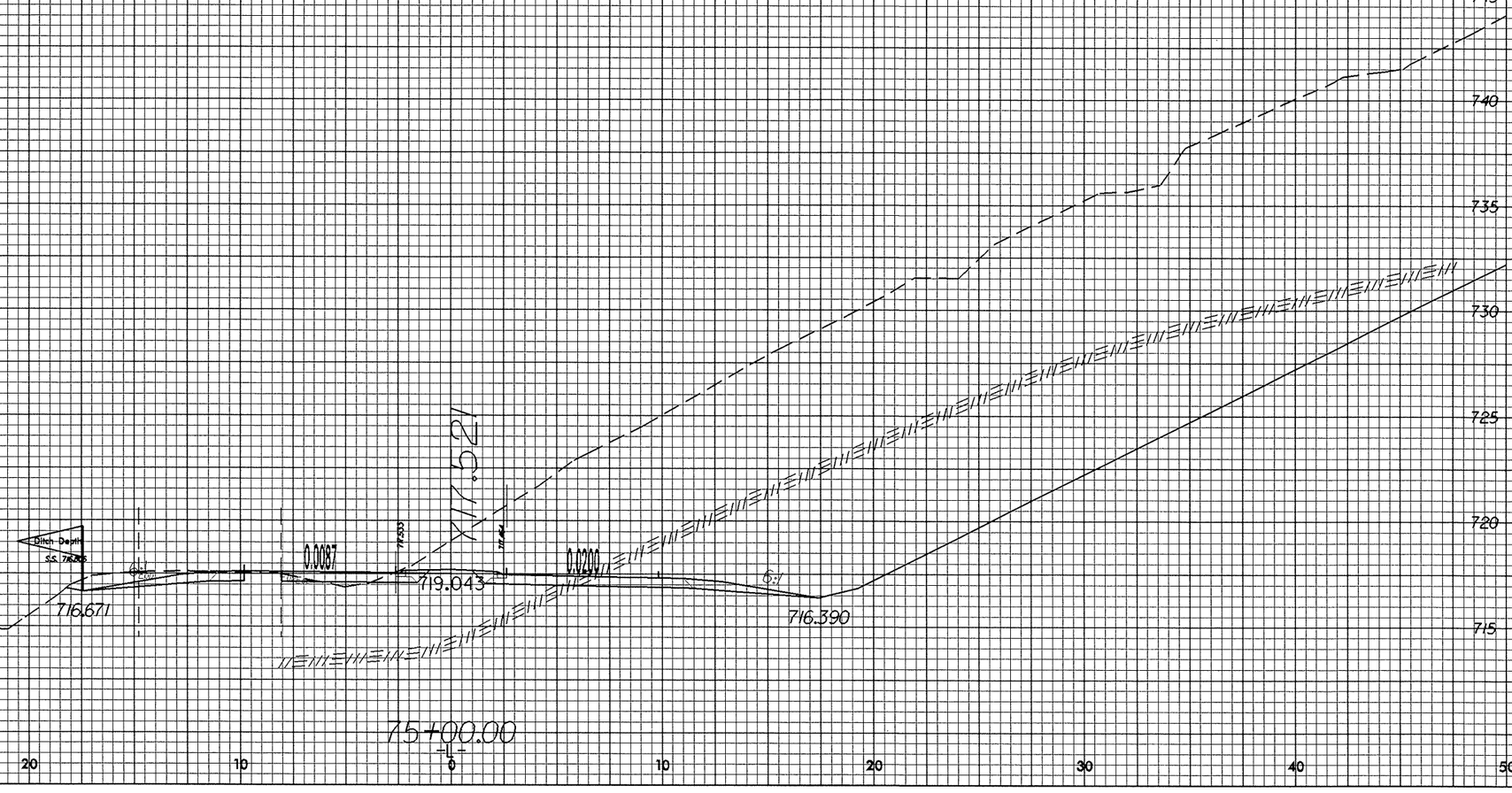
2.5	0	2.5	5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	215 of 368

50 40 30 20 10 0 10 20 30 40 50

760
755
750
745
740
735
730
725
720
715



50 40 30 20 10 0 10 20 30 40 50

04-FEB-2004 12:52
d13gw26cw
d:\projects\2003\03-0018\99-08b-pl.dgn

10/26/98

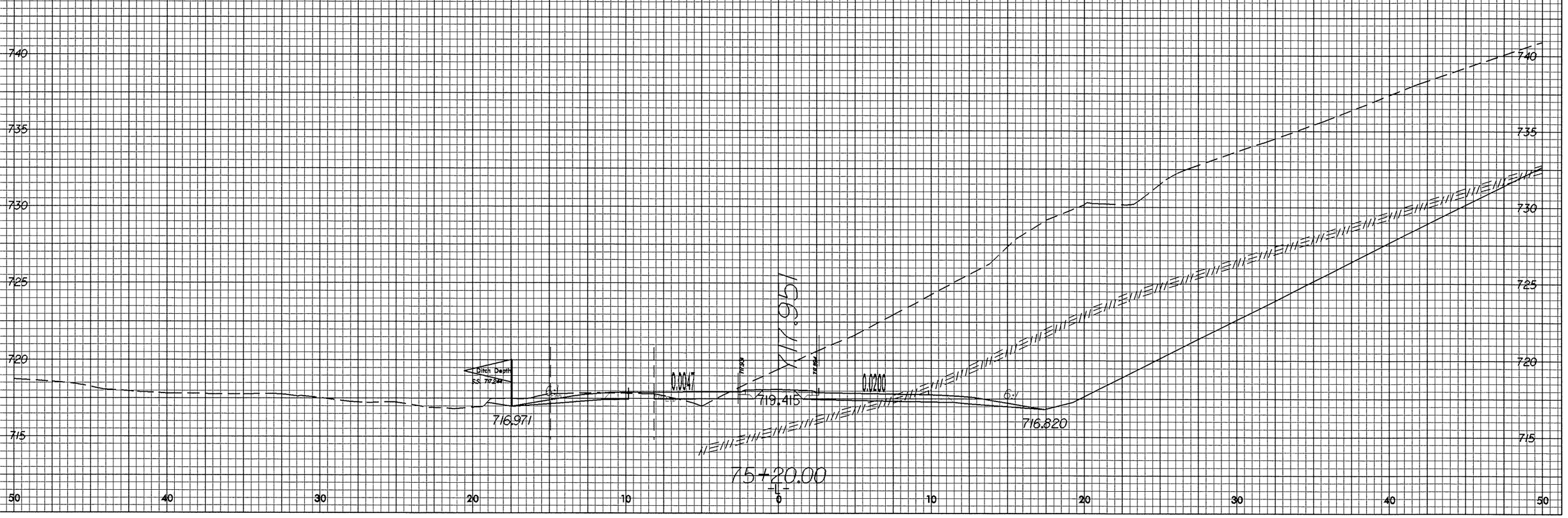
2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	26 of 368

50 40 30 20 10 0 10 20 30 40 50

755 750 745 740 735 730 725 720 715



50 40 30 20 10 0 10 20 30 40 50

755 750 745 740 735 730 725 720 715

01-FEB-2001 12:56
C:\projects\2518a\dgn\2518a-39+68-sd.dgn
d13gw25pw MT 0.3048006096

10/26/98

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518 A	217 of 368

50 40 30 20 10 0 10 20 30 40 50

730 725 720

SS. 718139

6:1

6:1

0.0200

717.591

718+22

719.140

0.0200

6:1

717.591

SS. 726063

730

725

720

2:1

75+60.00

735 730 725 720

SS. 717903

6:1

6:1

0.0180

717.242

718+35

718.174

0.0200

6:1

717.222

COLLUVIUM: BRN CLAYEY SAND W/RK FRAGS

75+40

21M RT

20

8

SAPROLITE: RED/BRN MIC SILTY SAND W/WEATHERED ROCK LE

2:1

735 730 725 720

75+40.00

50 40 30 20 10 0 10 20 30 40 50

84-FER-0001 1.0
d13se2sw 47 0136E2003E2

10/26/98

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	218 of 368

2.5 0 2.5 5

METRIC

50 40 30 20 10 0 10 20 30 40 50

730 725 720

SS 719050

6:1

0.0200

718.645

718.771

SS 720562

2:1

718.847

16+20.00

730 725 720

SS 718289

6:1

0.0200

718.268

718.900

SS 720458

VAR.

718.339

76+00.00

730 725 720 715

SS 718383

6:1

0.0200

717.952

ALLUVIUM: GRAY SANDY CLAYSILTY SAND W/RK FRAGS

718.516

9
15
63

75+80
3 M RT

SS 720562

2:1

SAPROLITE: GRAY SLI MIC SILTY SAND

75+80.00

50 40 30 20 10 0 10 20 30 40 50

84-"ER-2514.dgn
dl3pe2pou AT 01:32 20:38:42

10/26/98

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	219 OF 368

50 40 30 20 10 0 10 20 30 40 50

745 740 735 730 725 720

L120.188

Ditch Depth
SS. 78270

6:1

0.0272

0.0172

6:1

4.54:1

SS. 78487

719.567

719.359

720.110

16+60.00

L120.356

Ditch Depth
SS. 78278

6:1

0.0200

0.0039

6:1

2.90:1

SS. 78983

719.105

718.998

719.438

16+40.00

-L-

50 40 30 20 10 0 10 20 30 40 50

04-FRP-2804 U2BP
d13ep25sv
AT 10/26/2018 9:39:48 AM

2.5 0 2.5 5

METRIC

50 40 30 20 10 0 10 20 30 40 50

740 735 730 725 720

L22108

77+00
10 M RT

Ditch Depth
SS. 720.65

6:1

0.0539

0.0539

6:1

720.576

4
21
18

RDWY FILL: BRN SILTY FINE SAND

ALLUVIUM: GRAY/GREEN SAND W/GRAVEL

SAPROLITE: BRN SLI MIC SILTY FINE SAND

77+00.00

L22402

Ditch Depth
SS. 720.45

6:1

0.0405

0.0405

6:1

SS. 720.20

720.044

720.343

76+80.00

50 40 30 20 10 0 10 20 30 40 50

735 730 725 720

04-FER-2004 13:14
N:\TIP\R2518A\Design\Roadway\d13ex25pn_r2518a.dgn

10/26/98

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	221.F368

2.5 0 2.5 5

METRIC

50 40 30 20 10 0 10 20 30 40 50

730 725 720 715

77+60
12 M LT

0.0600 0.0600 0.0600

2:1

SS. 720.44

4 6 8 99 100 100

RDWY FILL: BRN CLAYEY SAND W/GRAVEL

ALLUVIUM: GRAY SLI MIC SILTY SAND AND GRAVEL

SAPROLITE: GRAY SLI MIC SILTY FINE SAND

WEATHERED ROCK

SHEAR TO -Y16-

SS. 720.68

724.071

77+60.00

725.487

730 725 720

0.0600 0.0600 0.0600

2:1

SS. 719.43

722.532

SS. 720.98

77+40.00

722.824

730 725 720

3.03:1

Slope to be warped to Slope Stake

0.0600 0.0600

2:1

SS. 720.46

720.443

SS. 720.25

77+20.00

-L-

50 40 30 20 10 0 10 20 30 40 50

94-FEB-2004 13:15
d13ex25pw_AT 01SEP2003&2

d13ex25pw_AT 01SEP2003&2 39+88-01.dgn

10/26/88

PROJECT REFERENCE NO.	SHEET NO.
R-2518 A	222 of 368

2.5 0 2.5 5

METRIC

50 40 30 20 10 0 10 20 30 40 50

730

725

720

DRIVEWAY

0.0378

0.0378

725.036

2:1

S.S. 721684

725.218

78+00.00

724.643

0.0571

0.0571

724.350

2:1

2:1

S.S. 720555

S.S. 720555

77+80

30 M RT

ALLUVIUM: BRN SAND AND GRAVEL

4

16

100

SAPROLITE: GRAY MIC SILTY SAND

WEATHERED ROCK

77+80.00

50 40 30 20 10 0 10 20 30 40 50

730

725

720

04-FEB-2004 14:10
d13e26cu1 AT 0.3362208842

01-FEB-2004 14:10
d13e26cu1 AT 0.3362208842

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	223 of 368

2.5 0 2.5 5

METRIC

50 40 30 20 10 0 10 20 30 40 50

735 730 725 720

S.S. 736.369

7:1

725.442

0.0200

6:1

0.0111

RESIDUAL: BRN SLI MIC SILTY SAND

725.280

S.S. 725.209

SAPROLITE: LIGHT GRAY/BRN SLI MIC SILTY SAND W/MNO

3 4 6 10 9 11 13

78+40

35 M LT

725.539

78+40.00

735 730 725 720 715

S.S. 729.068

7:1

724.678

6:1

0.0245

725.631

0.0245

78+10

18 M RT

725.539

S.S. 724.699

ALLUVIUM: BRN SAND

100 13 38 78

SAPROLITE: LIGHT BRN/GRAY SILTY SAND W/RK FRAGS

78+20.00

50 40 30 20 10 0 10 20 30 40 50

04-FEB-2004 13:19
d13sp26cw
C:\projects\R-2518A\DGN\R2518A_SS+68-01.dgn

10/26/98

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
B-2518A	224 of 368

50 40 30 20 10 0 10 20 30 40 50

740 735 730 725

-L- 727.852

2:1

6:1 | 0.0200 | 0.0155 | 6:1

SS 728.046

4.84:1

727.010 | 727.464 | 727.054

18+80.00

SS 740.394

2:1

-L- 727.352

6:1 | 0.0200 | 0.0022 | 6:1

Ditch Depth

SS 728.533

726.221 | 726.860 | 726.396

18+60.00

50 40 30 20 10 0 10 20 30 40 50

740 735 730 725

04-FEB-2004 14:22
d13pw25pw, AT USER 26352
d13pw25pw-1839+60-pl.dgn

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	225 OF 368

2.5 0 2.5 5

METRIC

50 40 30 20 10 0 10 20 30 40 50

740 735 730

SS 732.496

2:1

6:1

0.020

729.237

729.995

0.020

6:1

3.42:1

SS 734.563

729.237

L-L 729.657

19+40.00

SS 735.623

2:1

6:1

0.030

728.525

729.261

0.030

6:1

6:1

SS 728.857

728.525

L-L 728.914

19+20.00

SS 727.89

2:1

6:1

0.030

727.783

728.181

0.030

6:1

6:1

SS 728.489

727.783

19+00.00

50 40 30 20 10 0 10 20 30 40 50

740 735 730

04-FEB-2004 13:26:1
C:\Projects\2518-99-60-pl.dgn
d13ap25ou

10/26/98

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	22&23B

2.5 0 2.5 5

METRIC

50 40 30 20 10 0 10 20 30 40 50

740 735 730 725

732.345

SS 733.108

2:1

6:1

731.184

0.0200

732.018

732.256

80+00

22 M RT

4.96:1

RESIDUAL: BRN/GRAY SANDY CLAY

24 7 17 100

SAPROLITE: GREEN/WHITE SLI MIC SILTY SAND

WEATHERED ROCK

80+00.00

731.691

SS 733.004

730.566

731.877

730.566

SS 730.09

79+80.00

731.048

SS 734.327

729.917

731.227

729.917

3.55:1

79+60.00

04-FEB-2004 13:27
d13gp26cu AT 0.0328203842
I:\projects\2003\2003-0027\Design\Roadway\Plan\Sheets\2003-0027-3900-3980-pl1.dgn

10/26/98

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	227 of 368

2.5 0 2.5 5

METRIC

50 40 30 20 10 0 10 20 30 40 50

740
735

80+80.00

735.682

0.0200 6:1 0.0200 0.0200 3:1

Slope rate warped to Slopestake

SS. 732.00E 733.38S 733.38S

733.121

80+60.00

735.45

735 740

0.0200 6:1 0.0200 0.0200 3.90:1

Slope rate warped to Slopestake

SS. 734.36 SS. 732.00

732.425

80+40.00

732.902

735 740

Ditch Depth SS. 734.36

0.0200 6:1 0.0200 0.0200 3.42:1

SS. 729.37

731.770 731.704

80+20.00

50 40 30 20 10 0 10 20 30 40 50

84-FEB_2000_1230
d13ex26ew
d13ex26ew AT D13GE2605E42

10/26/98

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	228 of 368

2.5 0 2.5 5

METRIC

50 40 30 20 10 0 10 20 30 40 50

745
740
735

135.432

5.01:1

0.0200

0.0100

2%

Subgrade warped to Slopestake

SS. 733.870

734.468

81+20.00

134.954

5.39:1

SS. 732.920

734.072

81+00.00

134.476

5.57:1

SS. 732.454

733.580

80+80.00

04-FEB-2004 14:37
d13pe26cu
S:\DESIGN\2038\2

PROJECT REFERENCE NO.	SHEET NO.
B-2518A	229 OF 368

2.5 0 2.5 5

METRIC

50 40 30 20 10 0 10 20 30 40 50

745 740 735

0.02200 0.02200

2:1 6:1

Ditch Depth
SS 735.90

735.730

735.984

SS 734.885

81+80.00

756.862

745 740 735

81+58
40 M RT

0.02200 0.02200

4.23:1 6:1

Ditch Depth
SS 735.308

735.257

735.389

SS 735.288

ARTIFICIAL FILL
BRN/ORANGE/BLK MIC

7
20

81+60.00

756.910

745 740 735

81+45
15 M RT

0.02200

4.66:1

Ditch Depth
SS 735.08

Matched to Slope/Stake

81+35 10MLT

RDWY FILL
GRAVEL W/SOME BRN SAND

GRAVEL AND COBBLES W/SAND

ALLUVIUM: GRAVEL W/SAND

SAPROLITE: TAN/BRN SILTY SAND

12
100
38

8
100

81+40.00

756.889

745 740 735 730

50 40 30 20 10 0 10 20 30 40 50

04-FEB-2014 13:33
C:\Projects\2013\13-99-08\roll.dgn
MY-01\SE2\2013-99-08-roll.dgn
113px25cw

10/26/98

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	230 of 368

2.5 0 2.5 5

METRIC

50 40 30 20 10 0 10 20 30 40 50

745 740 735

SS 741230

2:1

6:1

0.011%

0.020%

737.013

737.52

SS 736.46

2:1

738.060

82+40.00

517.694

SHEAR TO -Y17-

SS 737.763

737.55

736.482

SS 737.085

6:1

82+20.00

517.298

82+07
17 M RT

SS 736.585

6:1

736.167

8
11

SS 735.055

BRN/BLK ORANGE MIC. SILTY SAND

82+00.00

04-FEB-2004 13:31
d:\3pe26ou AT 0.050 203842

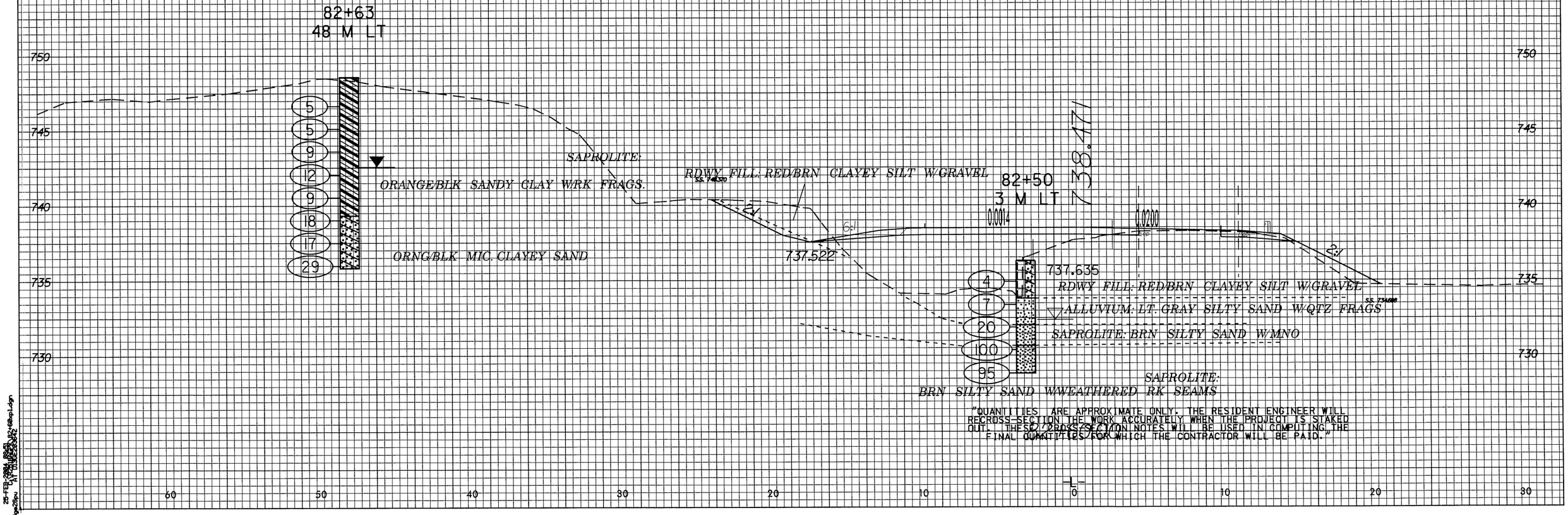
d:\3pe26ou\pe203842-sht-39+88-col.dgn

01/26/98

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	X-1

2.5 0 2.5 5 METRIC

60 50 40 30 20 10 0 10 20 30



25-FEB-1998 08:55
d13we26pw
S:\PROJECTS\2518\DGN\2518_S2+60sp1.dgn

10/26/98

2.5	0	2.5	5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	232 of 368

50 40 30 20 10 0 10 20 30 40 50

745 740 735

738.111

0.0086 0.0200

2:1 3:1

SS. 738.593 SS. 736.183

138.669

82+80.00

82+63

750 745 740 735

SS. 740.370

2:1

6:1

737.522

82+50
3 M LT

0.004 0.0200

2:1

737.635

4
7
20
100
95

RDWY FILL: RED/BRN CLAYEY SILT W/GRAVEL

SS. 734.696

ALLUVIUM: LT. GRAY SILTY SAND W/QTZ FRAGS

SAPROLITE: BRN SILTY SAND W/MNO

SAPROLITE:
BRN SILTY SAND W/WEATHERED RK SEAMS

138.471

82+60.00

730

50 40 30 20 10 0 10 20 30 40 50

04-FEB-2004 13:35
d13pe26pw
CV: C:\Projects\R-2518A\Design\Cross Sections\39+88-01.dgn
RT 0.00E 0.00N 0.00E 1:1 1:1

10/26/98

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	233 OF 369

2.5 0 2.5 5

METRIC

50 40 30 20 10 0 10 20 30 40 50

750
745
740

140.679

0.03000 0.03000

2:1 6:1

739.876

SS 737.450 SS 736.96

83+40.00

140.047

0.02286 0.02286

2:1 6:1 6:1

739.272 738.821

SS 737.83 SS 738.457

83+20.00

139.464

0.01186 0.02200

2:1 6:1 6:1

738.511 738.333

SS 737.432 SS 738.040

83+00.00

50 40 30 20 10 0 10 20 30 40 50

04-FEB-2004 13:36
d13pe26pw1 AT 013GE26DB42

10/26/98

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	234.F368

2.5 0 2.5 5

METRIC

50 40 30 20 10 0 10 20 30 40 50

755 750 745 740

742.647

0.0300 0.0300 0.0300

2:1 6:1

742.196 741.406

SS. 736132 SS. 735441

84400.00

741.965

0.0300 0.0300 0.0300

2:1 6:1

741.323 740.723

SS. 736516 SS. 745833

83480.00

741.319

0.0300 0.0300 0.0300

2:1 6:1

740.544

SS. 736805 SS. 739867

83460.00

04-FEB-2004 13:39
d13gw25pw
M:\01302\2638\42
04-2518a-39+68-01.dgn

10/26/88

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	235 OF 338

50 40 30 20 10 0 10 20 30 40 50

770 765 760 755 750 745 740

T44.136

0.0300 0.0300

2:1 6:1

744.006 742.895

SS 740651

84+40.00

T43.373

0.0300 0.0300

2:1 6:1

743.100 742.132

SS 739830

84+20.00

84-FEB-29@14:23:10
d13ge26pw1 XT 01362.00842

10/26/98

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	236 of 368

50 40 30 20 10 0 10 20 30 40 50

775 770 765 760 755 750 745 740

84+60
30.0000

744.605

744.807

743.664

0.0300

0.0300

2:1

6:1

SAPROLITE:
WHT/TAN SILTY SAND
W/WEATHERED RK SEAMS

26
39
34
64

REC=42% RQD=0%
REC=74% RQD=23%
REC=70% RQD=0%
REC=76% RQD=9%
REC=89% RQD=21%
REC=86% RQD=7%

84+60.00

84-FER-2518A_sht_xs
d13w26cu VC 1"=5' H 1"=10' V
AT 0.962 26842

84-FER-2518A_sht_xs-39+60-01.dgn

10/26/98

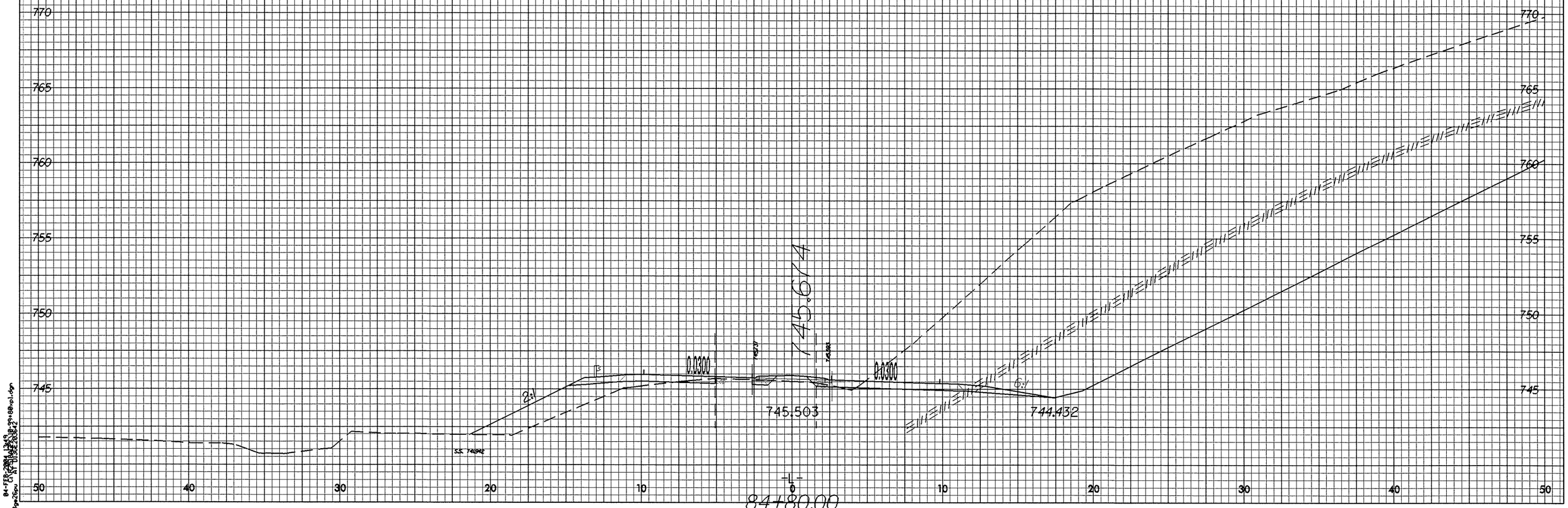
2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	237-F369

50 40 30 20 10 0 10 20 30 40 50

775



04-FEB-2004 14:13
d13ge26ou AT 0.500E.203x42

10/26/98

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	238 of 368

2.5 0 2.5 5

METRIC

50 40 30 20 10 0 10 20 30 40 50

780 775 770 765 760 755 750 745

2:1

0.0300

746.442

746.235

0.0300

5:1

745.201

150:1

SS 742.37

85+00.00

84-FEB-2004 14:25:50
d13se26cu K:\Projects\2518a\roadway\sht\2518a-sht-39+88-pl.dgn
AT 01SE26SE42

2.5 0 2.5 5

METRIC

50 40 30 20 10 0 10 20 30 40 50

790 785 780 775 770 765 760 755 750 745

85+20
30 M RT

SAPRO

SAND W/RK. FRAGS. AND GRAVEL

WEATHERED ROCK

COLLUVIUM

T
100

141.211°

0.0300

0.0300

2:1

6:1

746.817

745.970

SS: 743.079

85+20.00

04-FEB-2004 10:52
d13pw2sou
N:\DGN\2518-39+88.dgn

10/26/98

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	240 of 348

800 795 790 785 780 775 770 765 760 755 750 745

50 40 30 20 10 0 10 20 30 40 50

747.980

0.0300

0.0300

747.278

746.739

85+40.00

-L-

04-FEB-2004 14:30
d13se26cu
K:\DOS\E2658\2\2658H2_33+80-01.dgn

10/26/98

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518 B	241 of 368

50 40 30 20 10 0 10 20 30 40 50

800 795 790 785 780 775 770 765 760 755 750 745

85+60
30 M RT

GRAY/BLK/WHITE/ORANGE VERY DENSE SILTY SA

SAPROLITE:

WEATHERED RK

5
67
100
60

REC = 59% RQD = 20%
REC = 69% RQD = 37%
REC = 53% RQD = 0%
REC = 91% RQD = 39%
REC = 79% RQD = 16%
REC = 82% RQD = 49%
REC = 83% RQD = 39%
REC = 95% RQD = 16%
REC = 85% RQD = 0%

748.554

748.616

0.0300

0.0300

2:1

6:1

Subgrade w/Prof. to Slopestake

EL. 748.61'

-L-

85+60.00

04-FER-2821-1.495
d13gx25ou, KT 01SEP 20:36:42

10/25/98

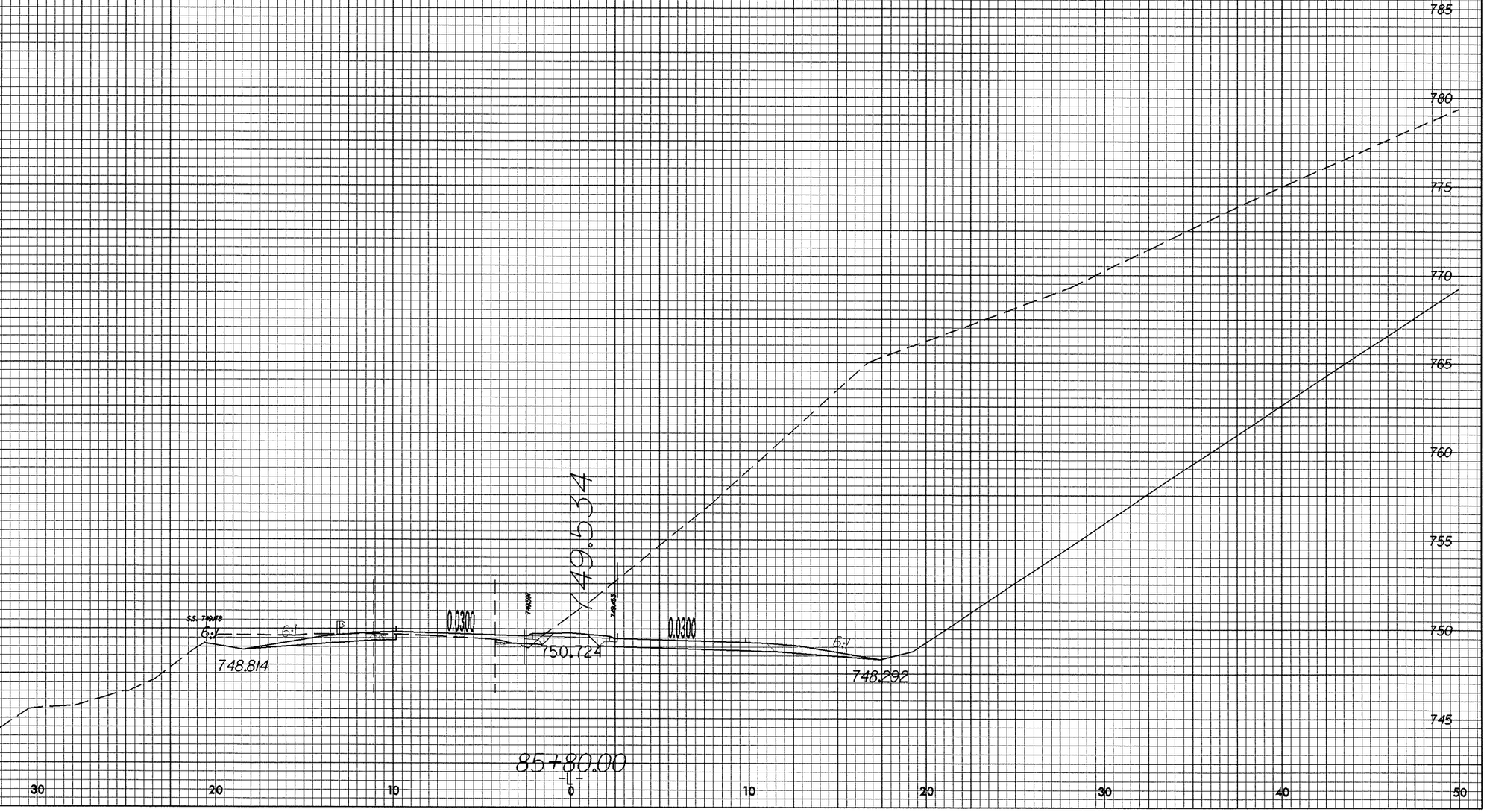
2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	242 of 368

50 40 30 20 10 0 10 20 30 40 50

800 795 790 785 780 775 770 765 760 755 750 745



50 40 30 20 10 0 10 20 30 40 50

04-FEB-2004 14:10
d13ge26cu
AT D:\SE2038\2

10/26/98

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518 A	243.F368

50 40 30 20 10 0 10 20 30 40 50

795 790 785 780 775 770 765 760 755 750

SS: 750828

1.66%

6%

0.0300

752.412

0.0300

6%

749.599

749.077

750.536

750.536

750.536

86+00.00

50 40 30 20 10 0 10 20 30 40 50

795 790 785 780 775 770 765 760 755 750

04-FEB-2004 10:43
C:\projects\R2518\R2518-SS-88-pl.dgn
dl3ge2bow

10/28/98

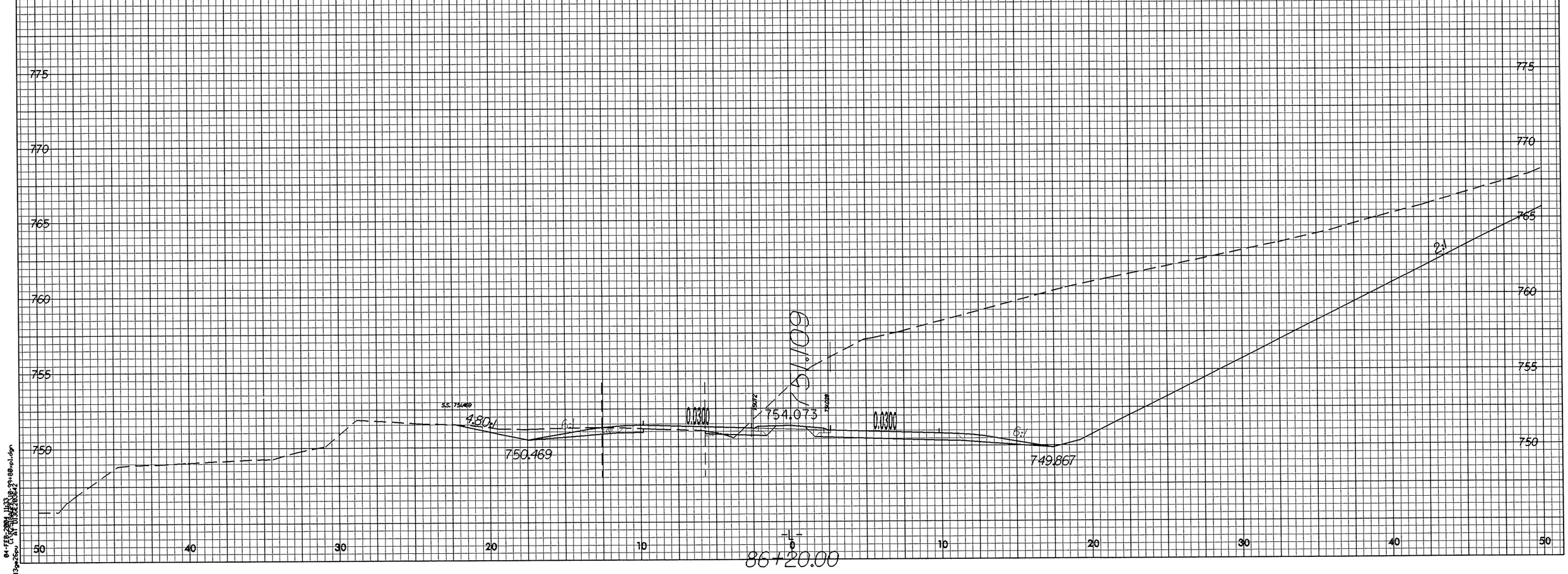
2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	244 of 369

50 40 30 20 10 0 10 20 30 40 50

775 770 765 760 755 750



04-FEB-2004 11:33
C:\Projects\2518a\2518a_sht_688-ml.dgn
d13ps2col

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	245 of 368

86+30

30 M RT

COLLUVIUM: BRN SANDY SILT W/ROCK FRAGMENTS

WEATHERED ROCK

HARD ROCK LEDGE

WEATHERED ROCK

6
100
100
100
100
100

6:1
2:1
6:1

SS 758.09

0.0077

754.675

0.0077

751.244

750.691

86+40.00

04-FEB-2004 11:56
d13ce26cu
K:\Projects\2003\03-0018\Design\Roadway\Sheets\03-0018-sht-01.dgn

10/26/98

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2618A	246 OF 368

50 40 30 20 10 0 10 20 30 40 50

780

775

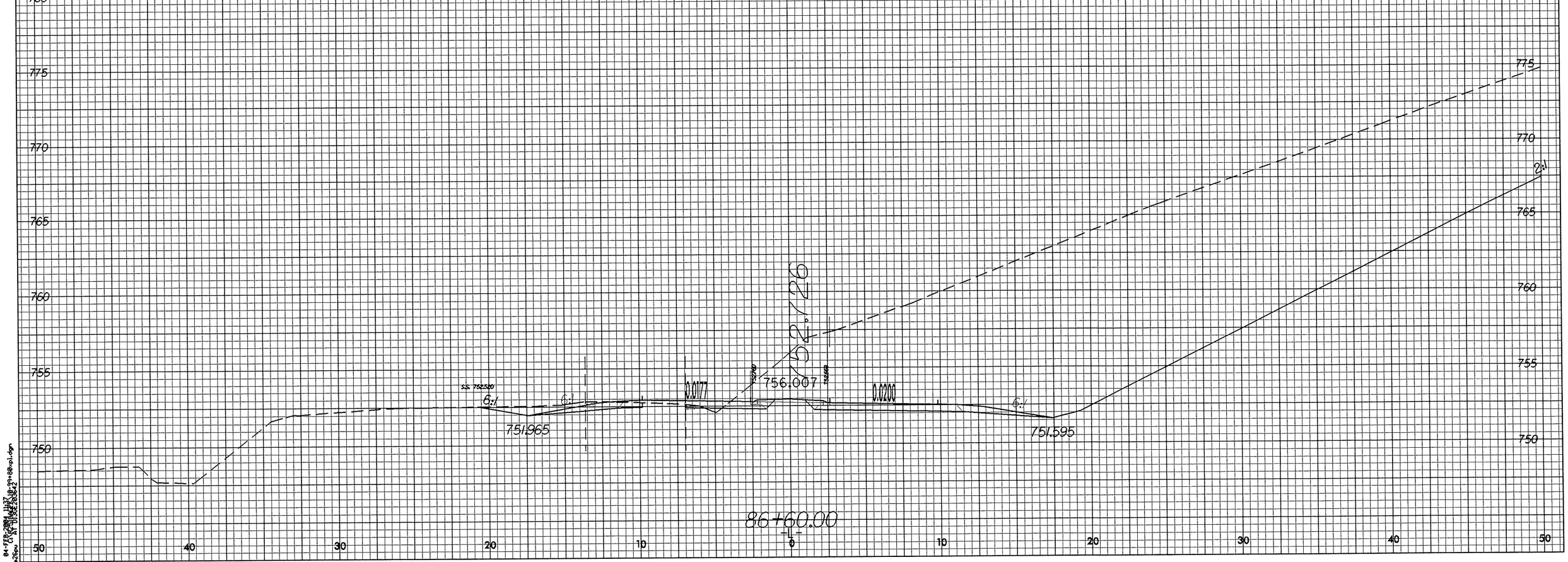
770

765

760

755

750



84-FEB-2004 11:37
C:\Projects\2618a\2618a_39+80-01.dgn
d13pw26cu

10/26/08

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	247 & 318

50 40 30 20 10 0 10 20 30 40 50

790 785 780 775 770 765 760 755 750

86+80
30 M RT

BRN/YELLOW/WHITE MED DENSE CLAYEY SAND

BRN MED DENSE CLAYEY/SILTY SAND

WEATHERED RK:

SAPROLITE:

16
28
100

REC=16% RQD=0%
REC=0% RQD=0%
REC=22% RQD= 0%
REC=39% RQD=0%
REC=26% RQD=0%
REC=18% RQD=0%
REC=75% RQD=0%
REC=88% RQD=19%
REC=100% RQD=29%

SS: 753.09

6:1

752.711

0.007

756.638

0.020

6:1

752.440

753.671

86+80.00

04-FER-2518A-1.dgn
dl3ge26cu
NT 01302 20080422

10/26/98

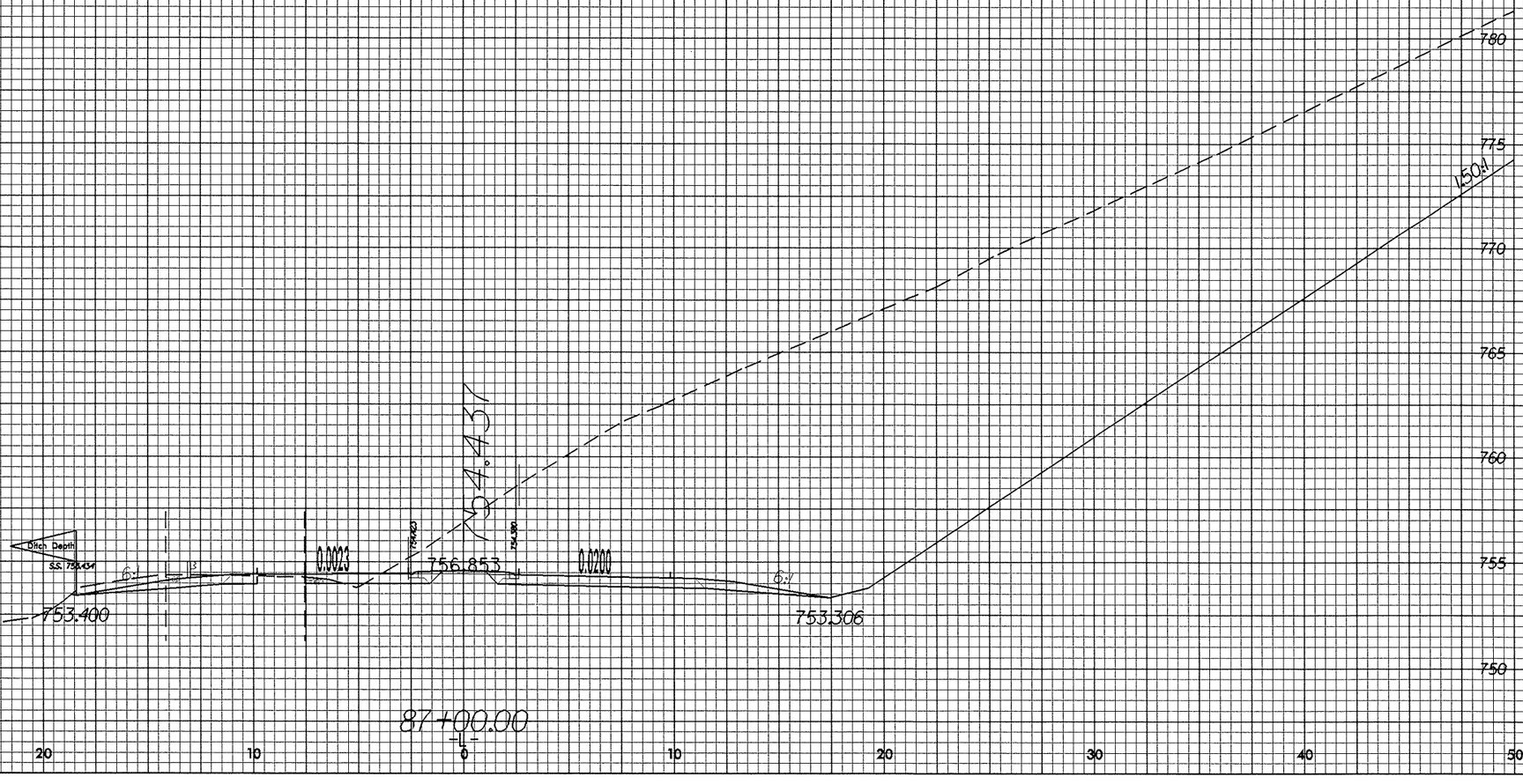
2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	248 of 368

50 40 30 20 10 0 10 20 30 40 50

790 785 780 775 770 765 760 755 750



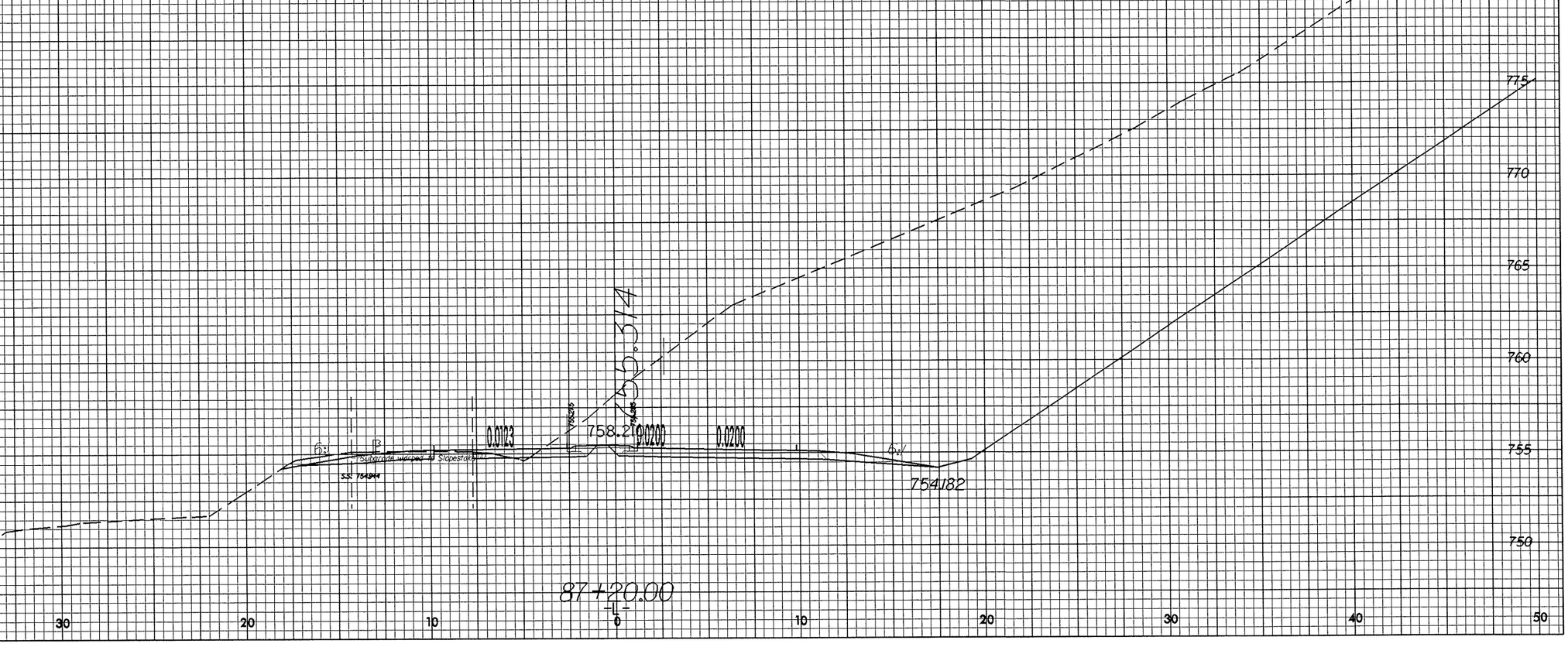
04-FEB-2008 11:45
d13pe26bou
S:\PROJECTS\2518\Design\Roadway\Sheets\2518_Design_Sheets_Typ_Sect_01.dgn

2.5 0 2.5 5

METRIC

50 40 30 20 10 0 10 20 30 40 50

805 800 795 790 785 780 775 770 765 760 755 750



04-FEB-2021 11:47
C:\Projects\2513A_Rdy\Design\2513A_Rdy_Design_Plan_Profile_Sheets_Template.dgn

10/26/98

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	250 OF 328

2.5 0 2.5 5

METRIC

50 40 30 20 10 0 10 20 30 40 50

770 765 760 755

2:1

Ditch Bottom
SS. 756.738

0.02.00 0.02.00

160.184

3.66:1

SS. 757.363

756.565

88+20.00

780 775 770 765 760 755

Ditch Depth
SS. 757.898

6:1

6:1

159.086

150:1

SS. 762.485

757.875

757.955

756.201

88+00.00

50 40 30 20 10 0 10 20 30 40 50

84-FEB-2004 12:43
d13se26bu AT 01SE26DE12
d13se26bu

10/26/98

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	251 of 368

2.5 0 2.5 5

METRIC

50 40 30 20 10 0 10 20 30 40 50

770 765 760 755

88+80.00

763.890

764.987

762.711

88+60.00

762.586

763.610

761.455

88+40.00

761.350

759.835

Subgrade warped to Slopestake

0.0200

2:1

6:1

4.1:1

SS. 763.84

SS. 761.83

SS. 760.89

SS. 758.65

04-FEB-2004 12:48
d13pw25pw, NT10X2 203842

10-25-96

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	232 OF 368

50 40 30 20 10 0 10 20 30 40 50

775 770 765 760

SS: 775564

769.525

769.705

0.0200 0.0200

2:1 6:1 2:1

765.573

SS: 758714

89+20.00

89+00
20 M RT

SS: 771481

767.317

766.265

0.0200 0.0200 0.0200

2:1 2:1

Subgrade matched to Slopestake

SS: 764804

SAPROLITE:
BRN/LIGHT BRN SLI MIC SILTY SAND W/MNO

8 8 11 9 31 100 100

WEATHERED RK

89+00.00

50 40 30 20 10 0 10 20 30 40 50

775 770 765 760

04-FEB-2004 12:51
d13gw26su
C:\projects\R2518A\roadway\sht\r2518a_sht_39+88.00.dgn

10/26/98

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	253 of 368

2.5 0 2.5 5

METRIC

50 40 30 20 10 0 10 20 30 40 50

785 780 775 770 765 760

SS: 784654

769.786

2:1

Ditch Depth
SS: 782.80

6:1

B

0.0200 0.0200

771.524

6:1

768.654

89+60.00

SS: 780.052

768.275

2:1

Ditch Depth
SS: 780.050

6:1

B

0.0200 0.0200

770.89

6:1

767.084

89+40.00

50 40 30 20 10 0 10 20 30 40 50

785 780 775 770 765 760

04-FR-2518A-0.25
d13se25ou 07:38:22 2025
AT 0.0382 2025 42

d13se25ou_07_38_22_2025_04-FR-2518A-0.25_89+60.01.dgn

10/26/98

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	291.P368

50 40 30 20 10 0 10 20 30 40 50

790

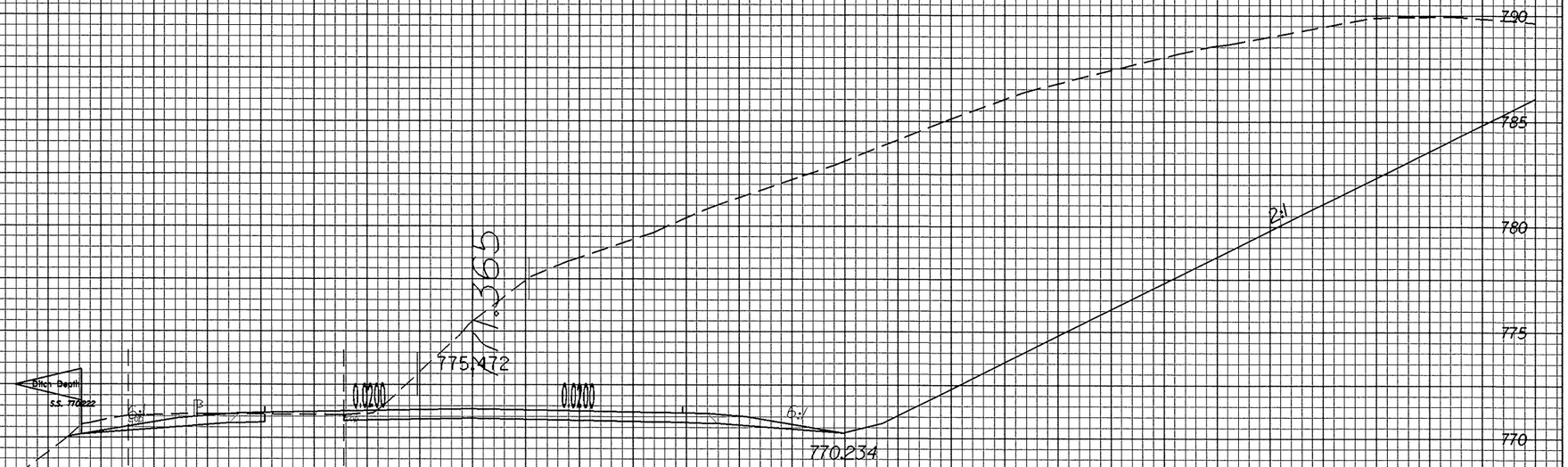
785

780

775

770

765



89+80.00

50 40 30 20 10 0 10 20 30 40 50

04-FEB-2004 13:57
d13se2sou AT 0.5SE 20.0S+2

790
785
780
775
770
765

10/26/98

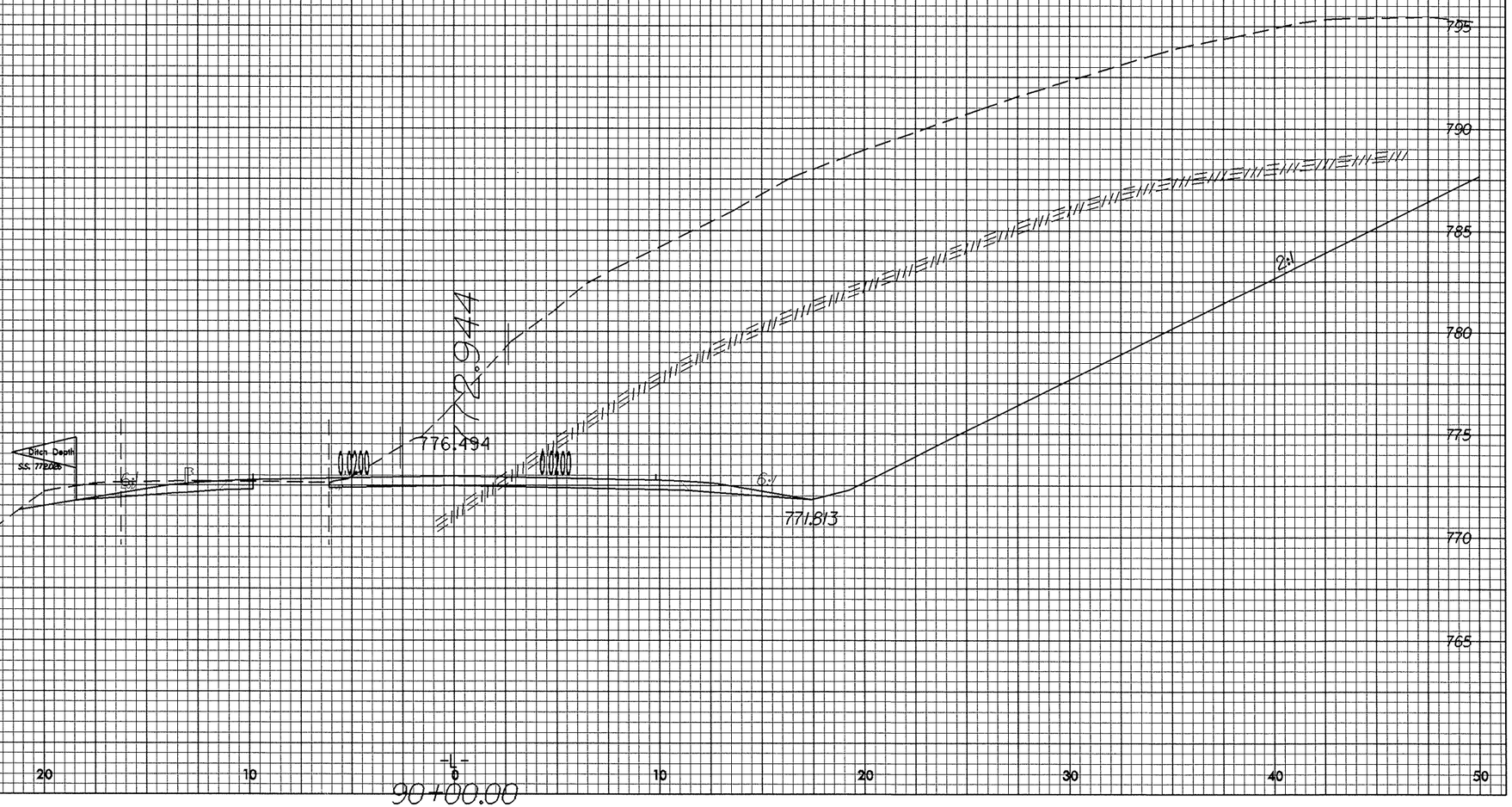
2.5	0	2.5	5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	255 of 368

50 40 30 20 10 0 10 20 30 40 50

795 790 785 780 775 770 765



04-FEB-2004 14:08
d13ge25su C:\projects\2518a\roadway\sheets\2518a-90+00-p1.dgn
AT 01934 20042

10/26/98

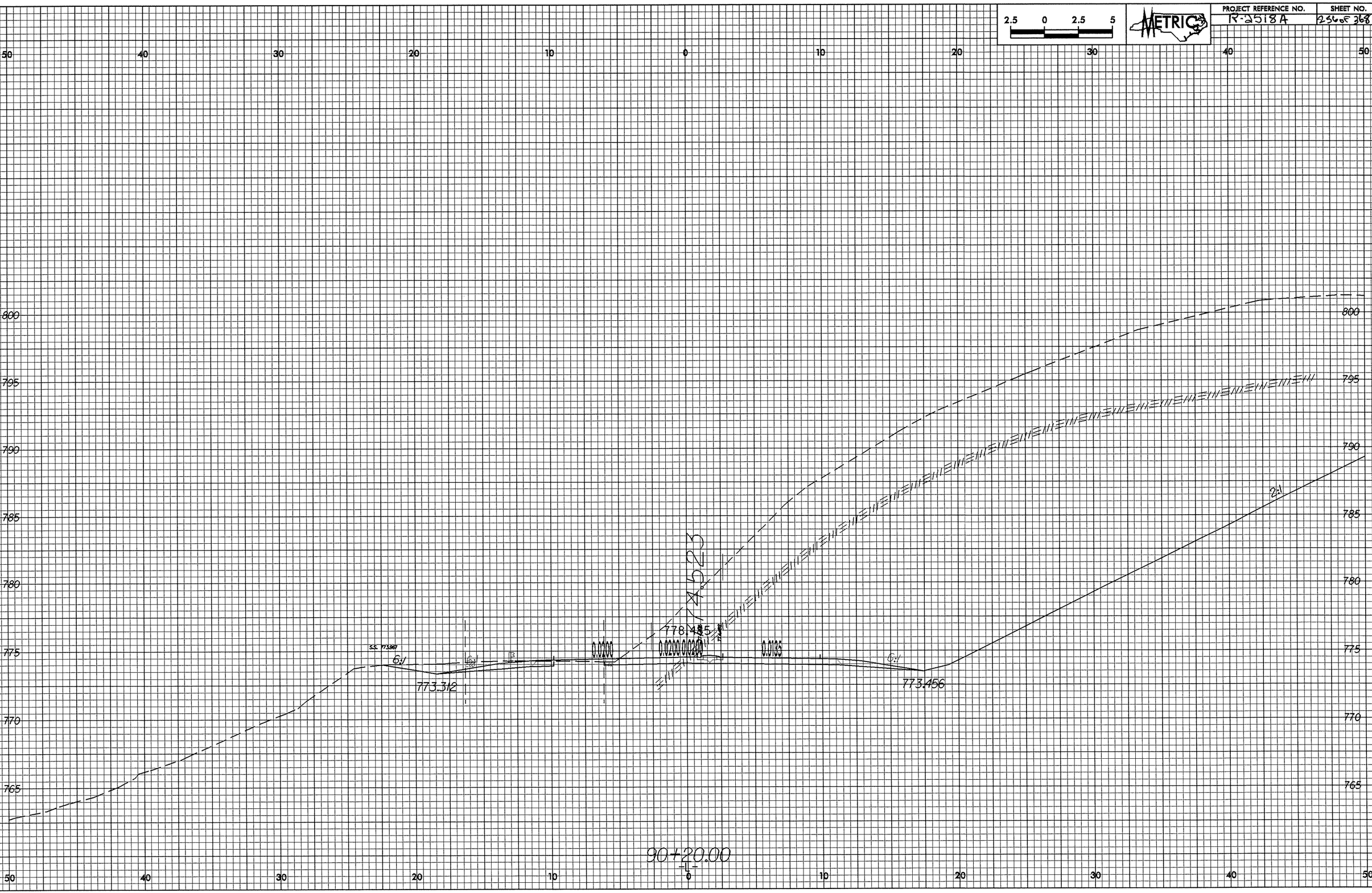
2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	256 OF 368

50 40 30 20 10 0 10 20 30 40 50

800 795 790 785 780 775 770 765



84-FEB-2004 13:02
C:\projects\R2518A\dgn\R2518A_23+88-pl.dgn
d13gm25pw

10/26/98

2.5	0	2.5	5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	257 of 368

90+40
28 M RT

BLK/BRN SILTY SAND

SAPROLITE

WEATHERED ROCK

28
100

REC=0% RQD=0%
REC=30% RQD=0%
REC=78% RQD=27%
REC=84% RQD=21%
REC=83% REC=0%
REC=64% RQD=0%
REC=94% RQD=0%
REC=99% RQD=20%
REC=68% RQD=11%
REC=99% RQD=21%
REC=47% RQD=0%
REC=97% RQD=80%
REC=93% RQD=36%
REC=84% RQD=48%
REC=67% RQD=67%
REC=44% RQD=38%

2:1

16.02

780.845

6:1

774.971

775.166

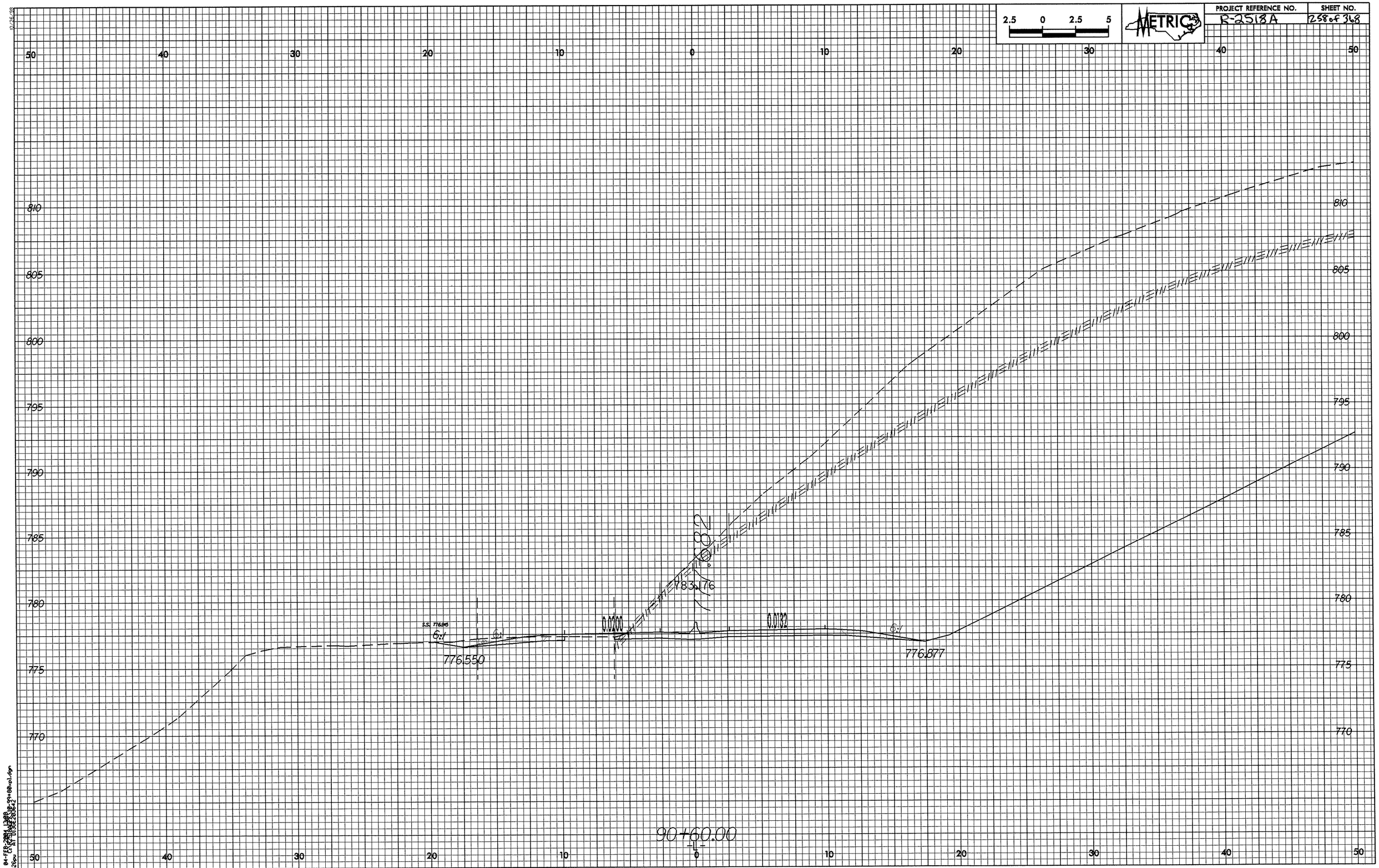
805
800
795
790
785
780
775
770
765

50 40 30 20 10 0 10 20 30 40 50

-L-
90+40.00

04-FEB-2004 13:07
d13pw2cpu: RT DGN:28x42

d13pw2cpu: RT DGN:28x42 04-FEB-2004 13:07

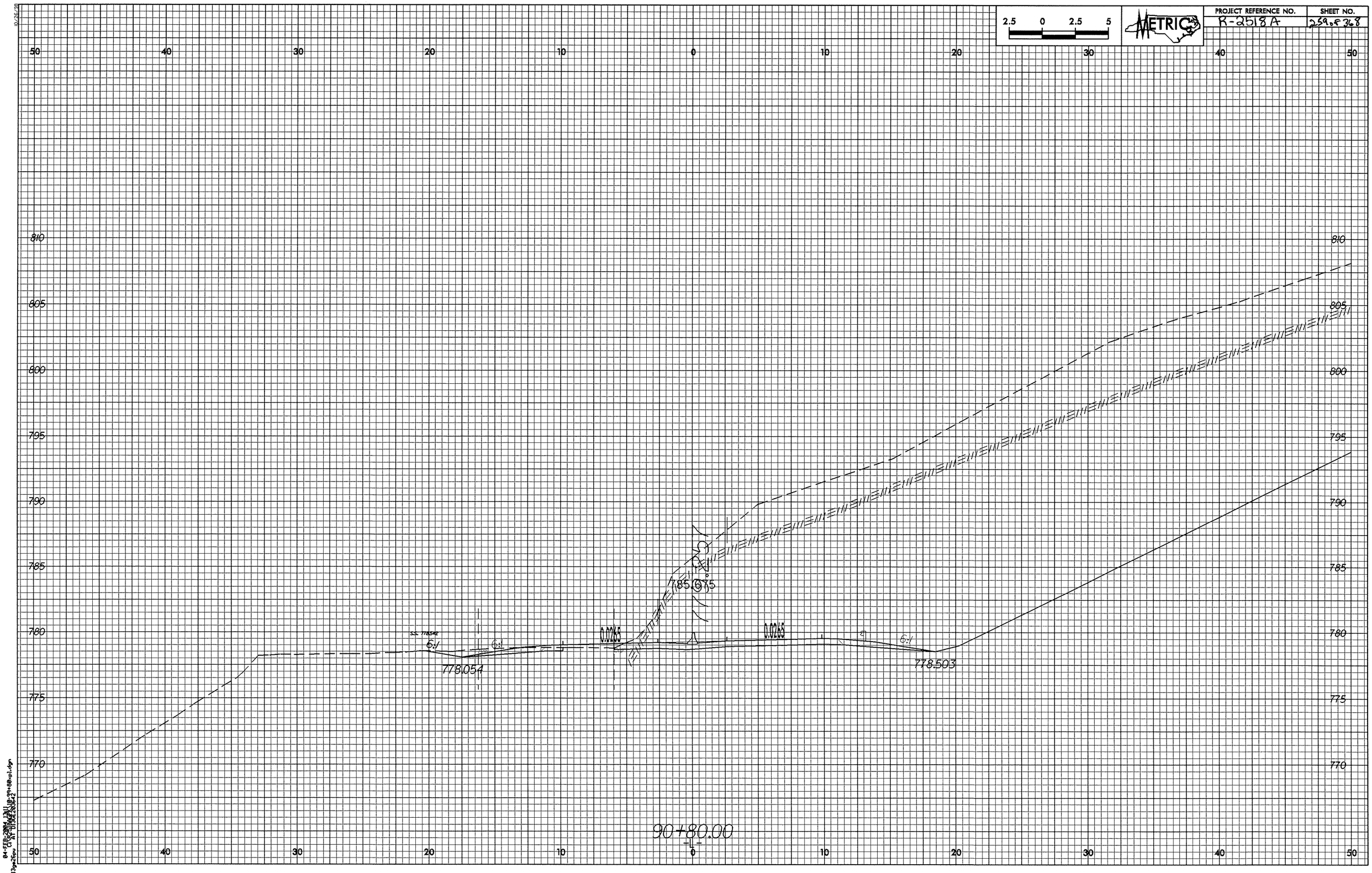

50 40 30 20 10 0 10 20 30 40 50
810 805 800 795 790 785 780 775 770
783.176
S.S. 776.95
6:1
6:1
776.550
0.0000
0.0132
6:1
776.877
90+60.00

10/26/98

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	259 OF 368



84-FEB-2004 08:11
d13pw26cu
AT 015SE208x2

10/26/98

PROJECT REFERENCE NO. R-2518A

SHEET NO. 240 of 368

2.5 0 2.5 5

METRIC

50 40 30 20 10 0 10 20 30 40 50

790 785 780 775 770

Ditch Depth
SS 778288

6:1

780.972

0.0400

0.0400

782.523

780.315

6:1

SS 776822

91+20.00

795 790 785 780 775 770

SS 779888

6:1

6:1

779.455

0.0097

0.0097

782.596

780.806

6:1

2:1

780.183

91+00.00

50 40 30 20 10 0 10 20 30 40 50

04-FEB-2004 13:28
d13ex25pw, AT D3CE2635.42
d13ex25pw_39+68pl.dgn

10/26/98

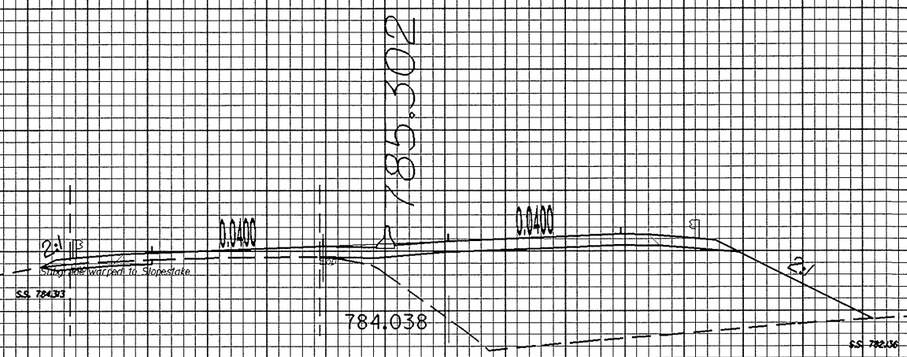
2.5 0 2.5 5

METRIC

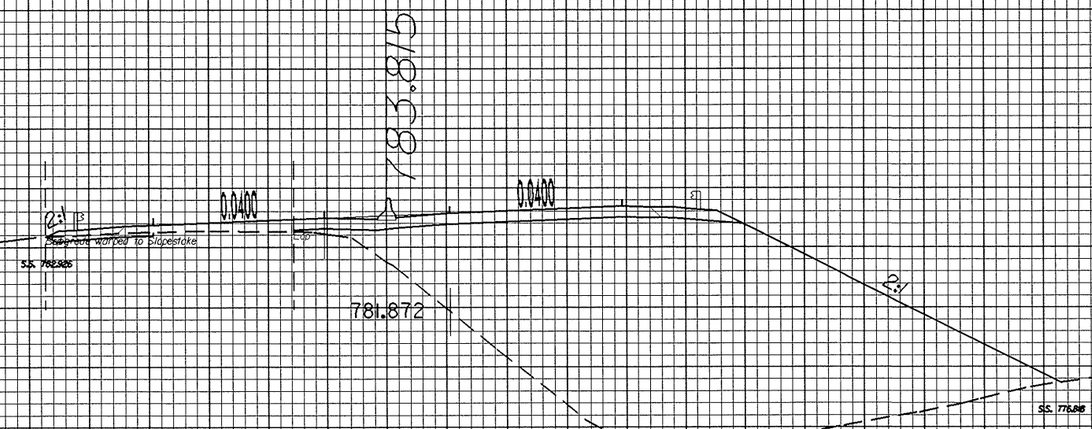
PROJECT REFERENCE NO.	SHEET NO.
R-2518A	261 of 368

50 40 30 20 10 0 10 20 30 40 50

795 790 785 780 775 770



91+60.00



91+40.00

50 40 30 20 10 0 10 20 30 40 50

795 790 785 780 775 770

04-FEB-2004 13:21
(c) 1998 Intergraph Corp.
d13gw26cn

10/26/89

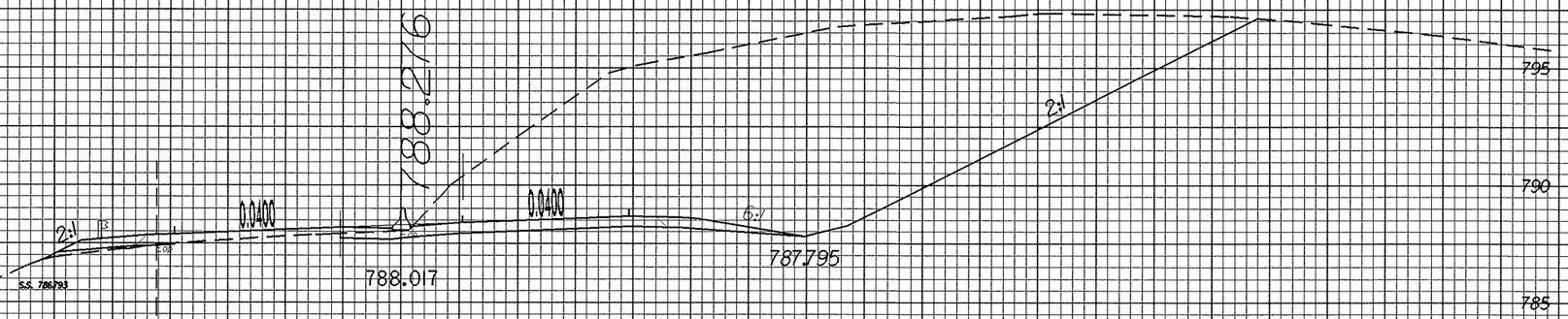
2.5	0	2.5	5

METRIC

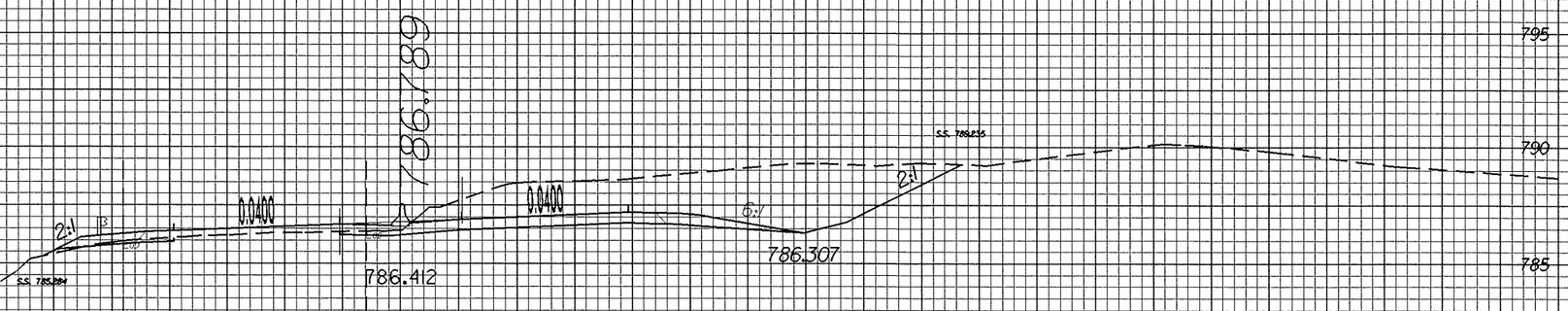
PROJECT REFERENCE NO.	SHEET NO.
R-2518A	262 OF 368

50 40 30 20 10 0 10 20 30 40 50

795 790 785 780 775



92+00.00



91+80.00

84-FEB 26 09:13:23 1990
d13se26pu AT 01 SE 26 08:42

10/26/98

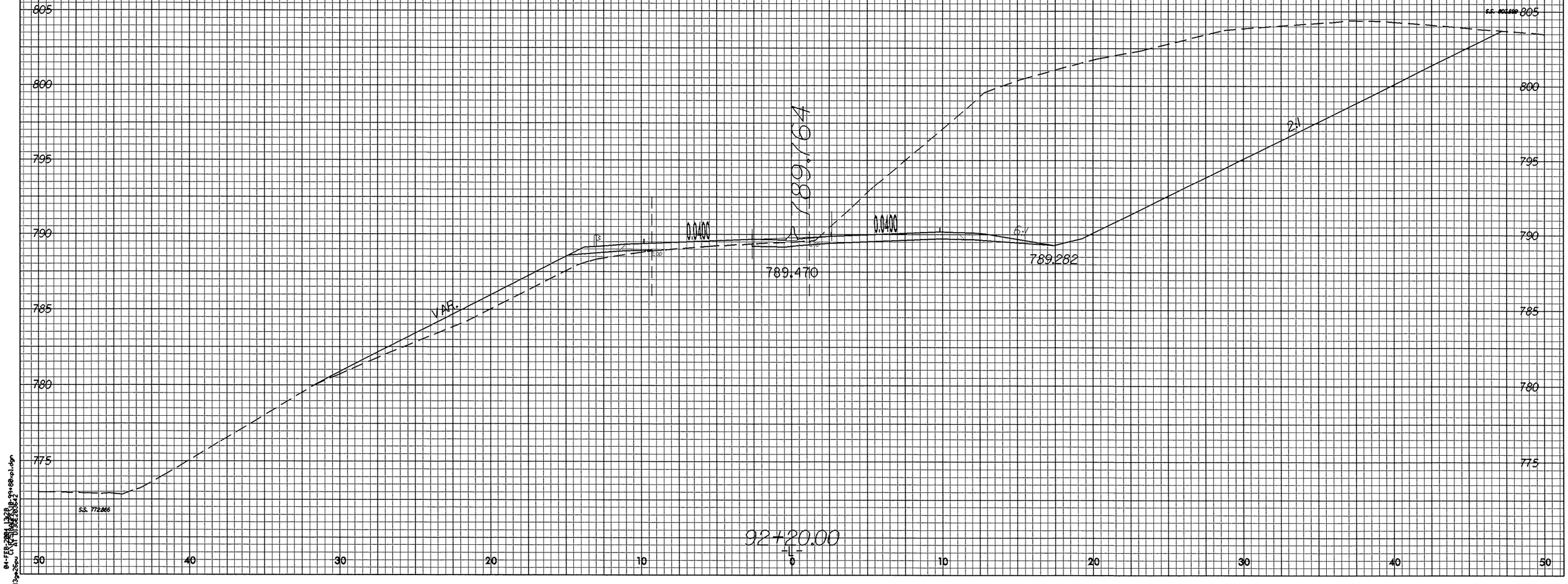
2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	263 of 368

50 40 30 20 10 0 10 20 30 40 50

805 800 795 790 785 780 775



84-FER-2018A_12x18
d13pw26pw1 DATE 10/26/98 12:32

10/26/98

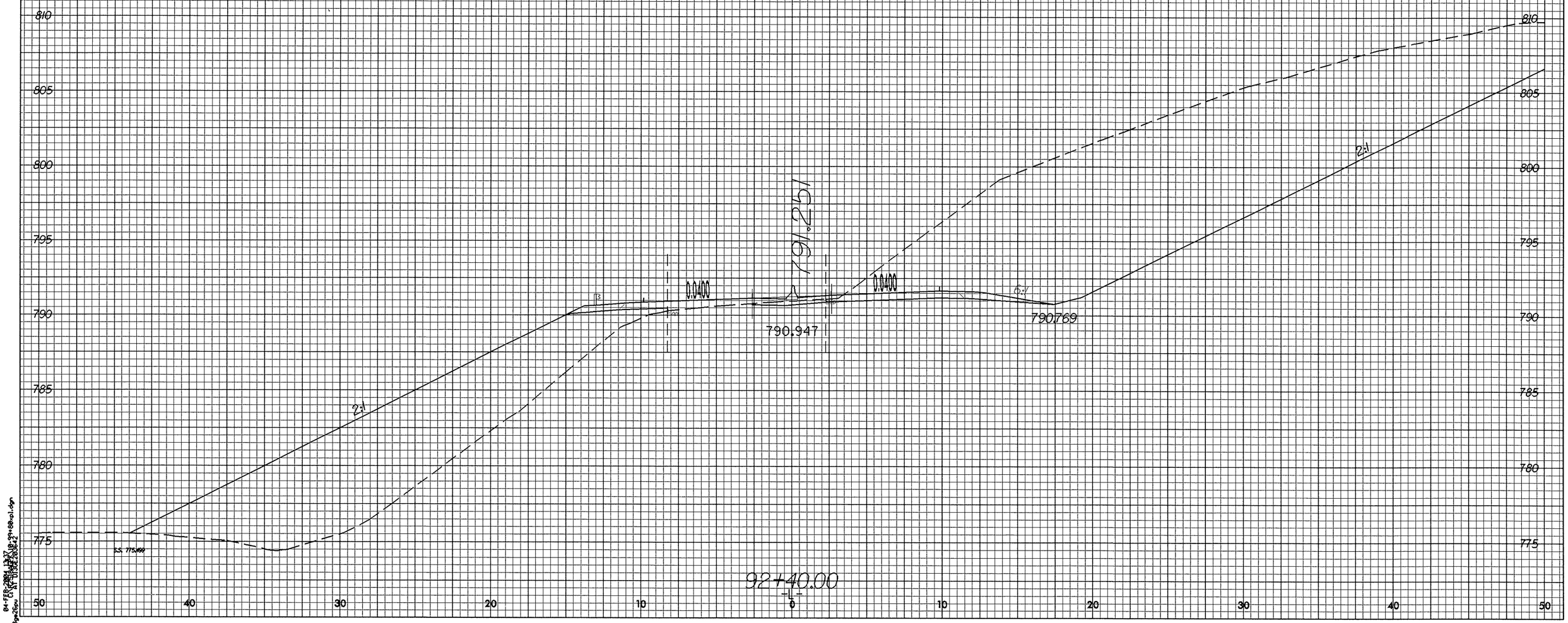
2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518 A	264 OF 368

50 40 30 20 10 0 10 20 30 40 50

810 805 800 795 790 785 780 775



50 40 30 20 10 0 10 20 30 40 50

04-FEB-2004 11:37
d13pw25pw, AT 0362.26842
d13pw25pw 92+80-01.dgn

10/26/98

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	265 of 368

50 40 30 20 10 0 10 20 30 40 50

815 810 805 800 795 790 785 780

92+60 815
46 M RT

810

13
16
35
100
100
100
100

805

800

795

790

785

780

SAPROLITE: RED/ORANGE/GREEN MIC FINESANDY SILT

2:1

6:1

REC=76% RQD= 0%
REC=0% RQD=0%
REC=72% RQD=0%
REC=61% RQD=18%

0.007

0.007

792.458

792.394

792.069

2:1

S.S. 771.629

92+60.00

50 40 30 20 10 0 10 20 30 40 50

84-FEB-2004 14:43
d13pe26su - AT 01:53E26:53E42

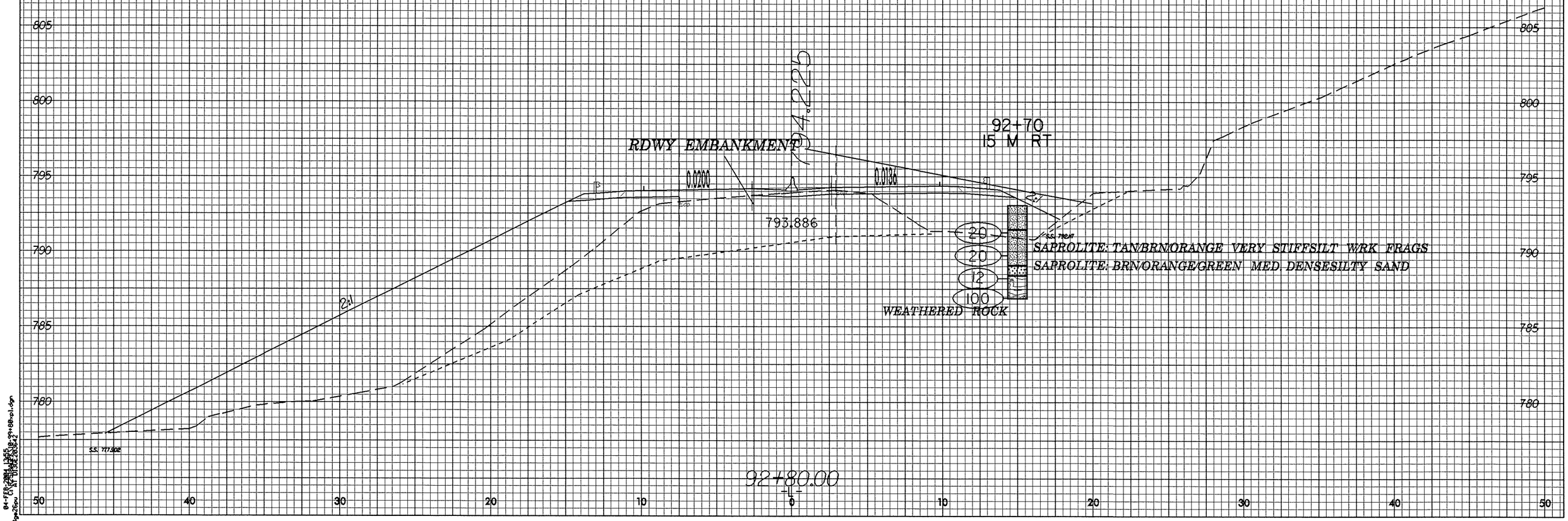
10/26/98

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	266 of 368

50 40 30 20 10 0 10 20 30 40 50



04-FEB-2004 14:55
d13se26cu K:\DOT\SE2038\e2_92+88-01.dgn

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	267 of 368

2.5 0 2.5 5

METRIC

50 40 30 20 10 0 10 20 30 40 50

805 800 795 790 785

2:1

SS. 784.829

0.0200

P

L=200

797.259

797.159

0.0130

S

2:1

SS. 796.555

93+20.00

795.532

795.632

0.0200

P

L=200

0.0003

S

2:1

SS. 779.869

SS. 789.66

93+00.00

805 800 795 790 785 780

50 40 30 20 10 0 10 20 30 40 50

04-FEB-2004 14:58
d13se26cu
N:\DESIGN\PROJECTS\R-2518\R-2518A\Roadway\Design\R-2518A_SS_93+68no1.dgn

10/26/99

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	268 of 368

2.5 0 2.5 5

METRIC

50 40 30 20 10 0 10 20 30 40 50

810 805 800 795 790

800.484

S.S. 798.758

6:1

6:1

0.020

799.273

800.632

0.020

2:1

S.S. 798.096

93+60.00

798.852

2:1

Subgrade Treatment to Stabilize

S.S. 798.052

0.020

0.020

798.430

2:1

S.S. 798.833

93+40.00

50 40 30 20 10 0 10 20 30 40 50

810 805 800 795 790

84-FEB_2518A_DGN_SHEETS_2518A_93+88001.dgn
d13ea26ou AT DISK 20SEP99

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	269 OF 368

2.5 0 2.5 5

METRIC

50 40 30 20 10 0 10 20 30 40 50

815 810 805 800 795 790

94+00.00

802.013

812.283

805.832

800.942

5.86'

6:1

0.0200

2:1

93+80.00

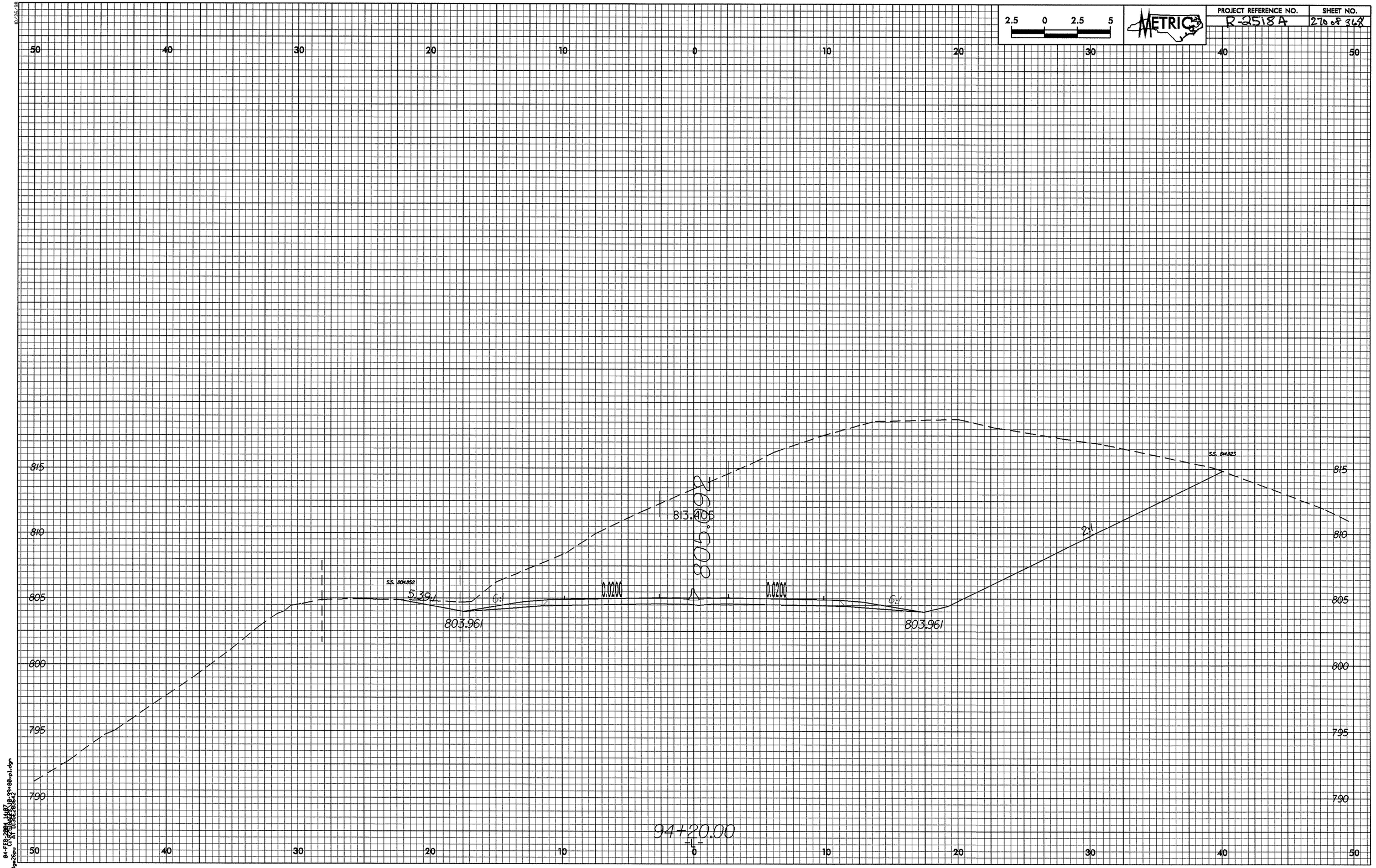
04-FEB-2021 14:05
D:\Projects\R-2518A\Design\Roadway\Sheets\R2518A_Sht_393+68-01.dgn
$IT DISK:2035:42
d13ew25ou

10/26/98

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	270 of 368



04-FEB-2004 14:07
d13ge26cu
M:\DESIGN\PROJECTS\R-2518A\SHEETS\R-2518A_SS-33+88-01.dgn

10/26/98

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	271 of 368

50 40 30 20 10 0 10 20 30 40 50

825 820 815 810 805 800 795

ss. 86+25

ss. 85+00

6:1

6:1

0.0200

0.0200

6:1

2:1

805.439

805.439

815.914

806.500

94+40.00

-L-

50 40 30 20 10 0 10 20 30 40 50

825 820 815 810 805 800 795

d13gw2cou
04-FEB-2004 11:08
User:Fred Baker
File:c:\projects\r-2518a\r-2518a-sht-39+60-xs1.dgn
PT 0332.20.842

10/26/98

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	272 of 368

2.5 0 2.5 5

METRIC

50 40 30 20 10 0 10 20 30 40 50

825 820 815 810 805 800

820.803

808.0448

806.917 806.917

SS. 808.94

SS. 820.858

2:1 6:1 0.0200 0.0200 6:1 2:1

94+60.00

04-FEB-2004 14:55
d13se2sou
C:\Projects\2518a\roadway\2518a_ss_39+80_01.dgn
ATTD:3d2e2d3d-2

2.5 0 2.5 5

METRIC

50 40 30 20 10 0 10 20 30 40 50

830 825 820 815 810 805

822.194

809.526

SS. 804222

SS. 804206

2:1

6:1

0.02000

0.02000

6:1

2:1

808.395

808.395

94+80.00

50 40 30 20 10 0 10 20 30 40 50

04-FEB-2004 11:38
dp3gw2cou C:\MY FILES\2518A\sht\2518A_ss+80-pl.dgn

10/26/98

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	274 OF 368

2.5 0 2.5 5

METRIC

50 40 30 20 10 0 10 20 30 40 50

835 830 825 820 815 810

826.650

811.004

SS 803032

2:1

6:1

0.0200

0.0200

6:1

2:1

809.873

809.873

50 40 30 20 10 0 10 20 30 40 50

95+00.00

d13pw250u, 04-FEB-2004 11:45
04-FEB-2004 11:45 R-2518A_SUP-339+68-sd-dgn
AT USE 20342

10/26/98

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	215.F 368

50 40 30 20 10 0 10 20 30 40 50

840 835 830 825 820 815 810

831.784

S.S. 84+82

2:1

6:1

0.0200

0.0200

6:1

2:1

811.351

811.351

812+82

95+20.00

-L-

50 40 30 20 10 0 10 20 30 40 50

84-FEB-2004 11:45
d13se25cu C:\Projects\R-2518A\Sht-370+68-01.dgn
RT 01382 200842

10/26/98

2.5	0	2.5	5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	276 OF 368

50 40 30 20 10 0 10 20 30 40 50

840 835 830 825 820 815

836.395

812.829 812.829

S.S. 88392

2:1 6:1 0.0200 0.0200 6:1 2:1

97.5°

-L-

95+40.00

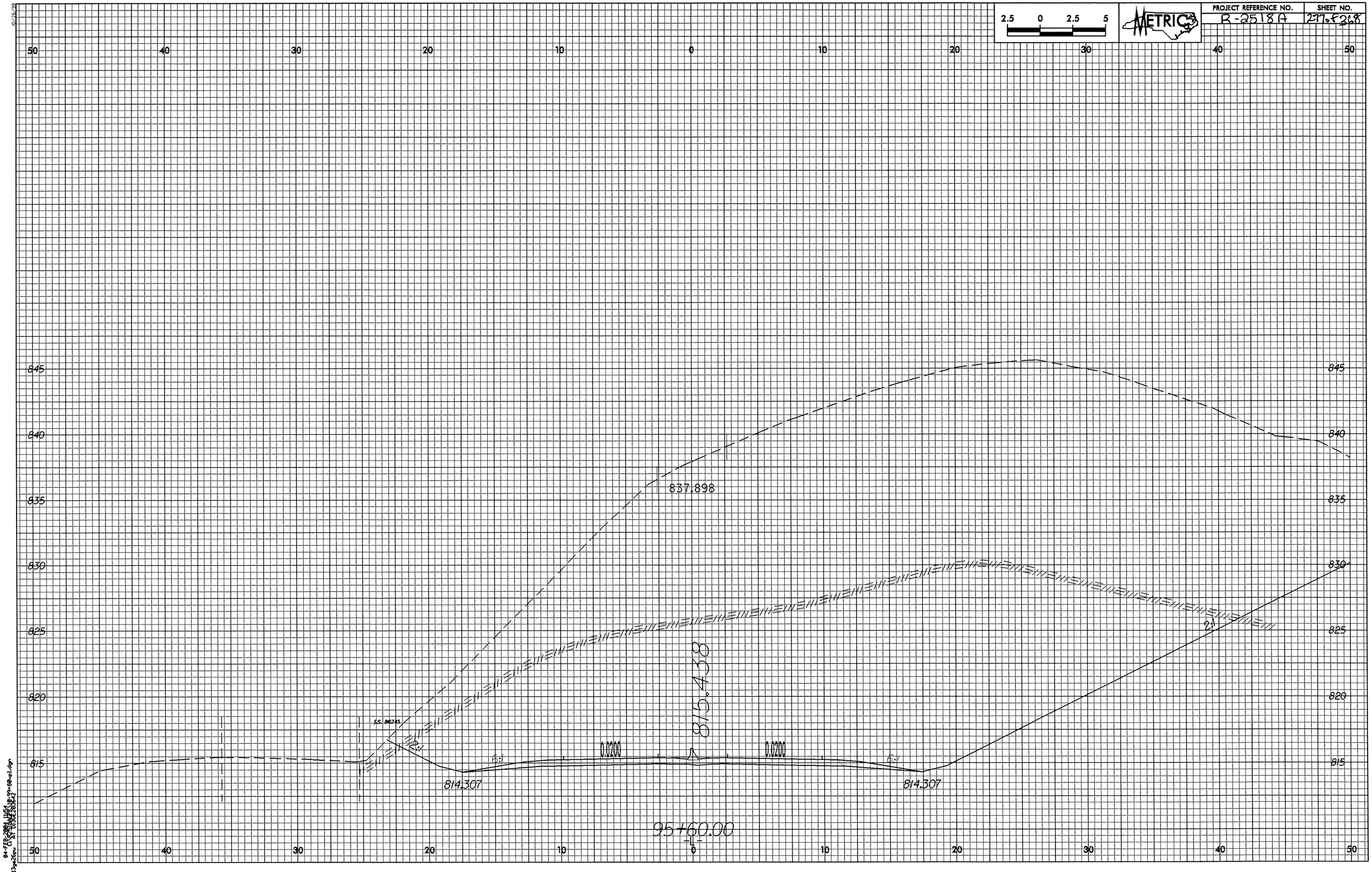
94-FEB-1998 11:51
dl3sa2ddu, AT [USER.DESIGN.R-2518A]SS-9440-01.dgn

10/26/98

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	237.F2.8



04-FEB-2004 14:51
C:\projects\2518a\roadway\d13pe260u.dgn
d13pe260u

10/26/98

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	278 OF 363

95+80
38 M RT

SAPROLITE: RED/BRN MIC CLAY WRK FRAGS

SAPROLITE: WHITE/BRN/ORANGE SANDY SILT WRK FRAGS

SAPROLITE: WHITE/GRAY/BRN VERY DENSE MICSILTY SAND W/RK FRAGS

WEATHERED ROCK

10		
15		
15		
83		
100		
100		
94		
100		
100		
	REC=26%	RQD=0%
	REC=32%	RQD=0%
	REC=73%	RQD=7%
	REC=100%	RQD=18%
	REC=97%	RQD=28%
	REC=96%	RQD=26%
	REC=100%	RQD=22%
	REC=100%	RQD=40%
	REC=97%	RQD=61%
	REC=88%	RQD=7%
	REC=91%	RQD=36%

834.504

816.618

SS1 86536

6:1

6:1

0.0200

0.0107

6:1

815.785

95+80.00

850 845 840 835 830 825 820 815 810

50 40 30 20 10 0 10 20 30 40 50

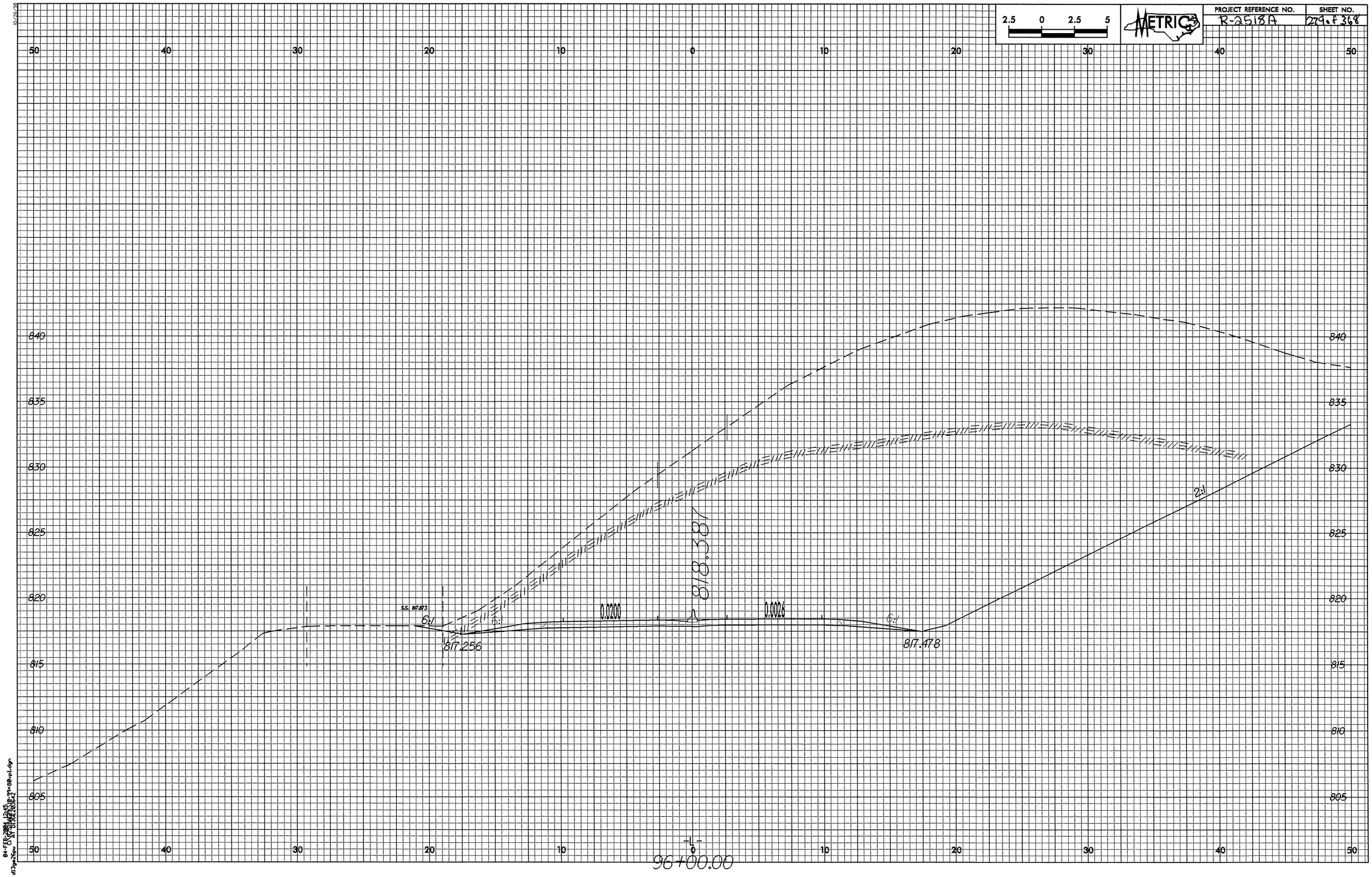
04-FEB-2004 (9:41)
d13se26cu

10/26/98

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	279.E368



84-FEB_2518A_SHT_DIST_20842
d13pe26ou

10/26/98

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	280 of 368

2.5 0 2.5 5 METRIC

50 40 30 20 10 0 10 20 30 40 50

835 835

830 830

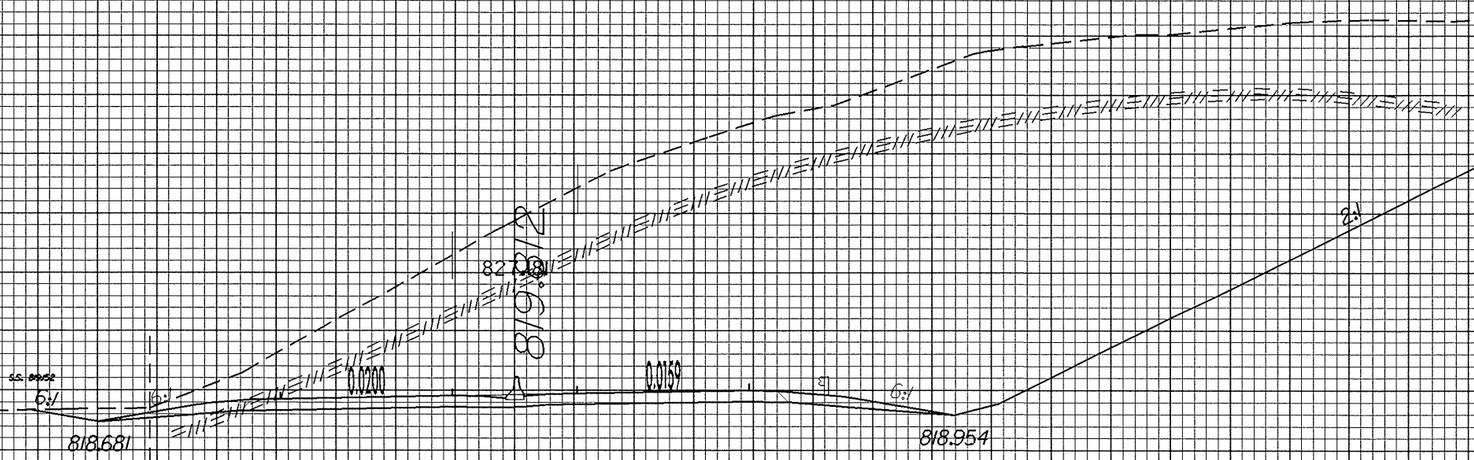
825 825

820 820

815 815

810 810

805 805



96+20.00

50 40 30 20 10 0 10 20 30 40 50

04-FER-2881A (2253)
d13gw26ow
d13gw26ow 10-30-98 08:01 dgn

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	281.e 368

2.5 0 2.5 5

METRIC

50 40 30 20 10 0 10 20 30 40 50

830 825 820 815 810 805

822.503

Ditch Depth
SS. 821.123

6:1

0.0426

0.0426

6:1

821.123

818.022

SS. 821.371

96+60.00

821.784

SS. 820.336

6:1

6:1

0.0093

0.0093

6:1

6:1

SS. 821.605

819.951

819.091

820.537

96+40.00

04-FEB-2014 13:04
d13ge26pu - AT 0.0254 200.842

10/26/98

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	282 of 368

2.5 0 2.5 5

METRIC

50 40 30 20 10 0 10 20 30 40 50

840 835 830 825 820 815

97+00.00

824.988

96+80.00

SS. 823.803

6:1

6:1

823.416

0.0600

824.864

0.0600

6:1

824.747

SS. 827.308

2:1

Ditch Depth

SS. 822.335

6:1

0.0559

822.241

823.867

0.0559

6:1

823.479

SS. 826.922

2:1

825.169

94-FER2518A.dgn (3d)
d13gw25pw AT 0382263642
10-26-98 @ 39+80-01.dgn

10/26/98

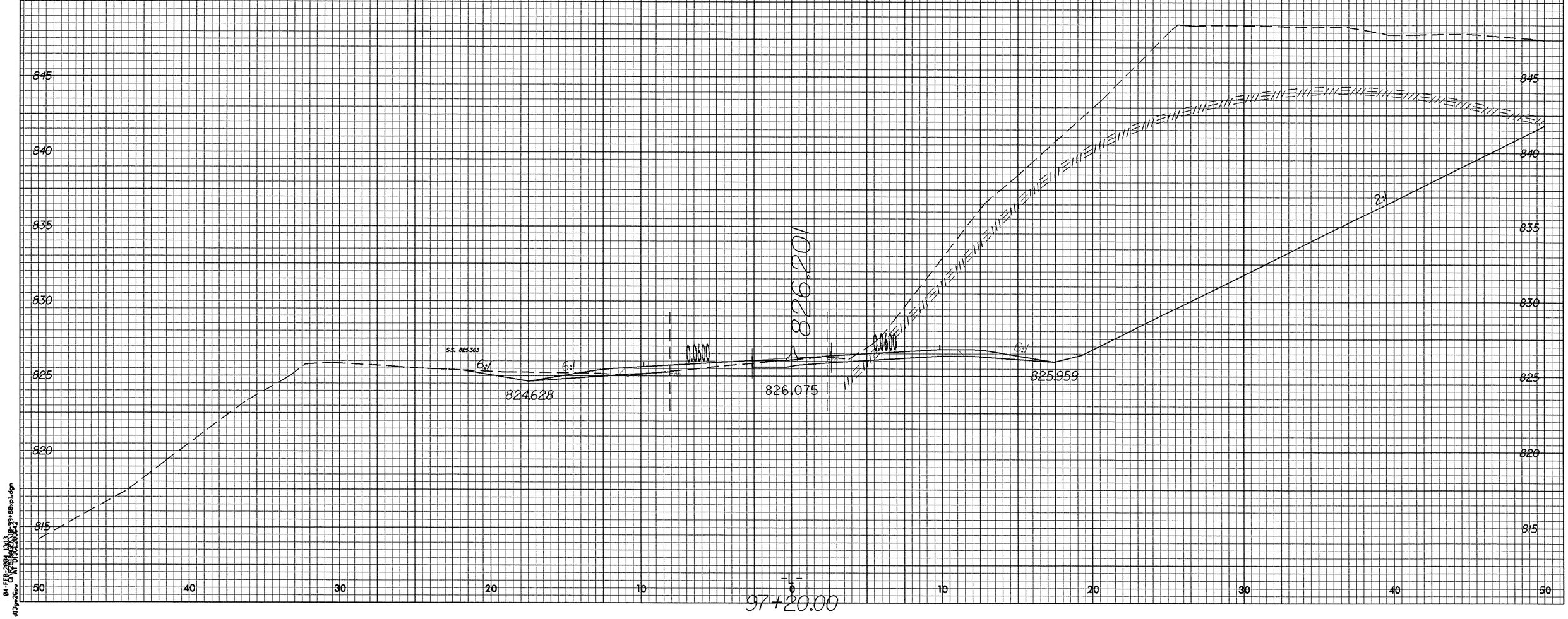
2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2514A	283 OF 352

50 40 30 20 10 0 10 20 30 40 50

845 840 835 830 825 820 815



97+20.00

04-5EP-2004 12:12
d13ep25cw
C:\projects\38-39+88-pl.dgn

10/26/98

2.5	0	2.5	5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	284 of 368

COLLUVIUM: BRN MED. STIFF SANDY SILT WRK FRAGS AND BOUL

97+30
33 M RT

SAPROLITE: GRAY/WHITE

WEATHERED ROCK

41
00

REC=99% RQD=66%
REC=93% RQD=23%
REC=100%
REC=100% RQD=100%
REC=92% RQD=38%
REC=85% RQD=22%
REC=88% RQD=0%
REC=100%
REC=100% RQD=13%
REC=84% RQD=41%
REC=91% RQD=73%
REC=99% RQD=25%
REC=94% RQD=48%
REC=98%
REC=100% RQD=35%
REC=100% RQD=30%
REC=100% RQD=55%

S.S. 827.02

4.10%

6:1

0.0600

0.0600

6:1

825.841

827.156

827.413

97+40.00

860 855 850 845 840 835 830 825 820 815 810

50 40 30 20 10 0 10 20 30 40 50

04-FEB-1999 14:37
d13pe26pw1 $1:\05se26\03e42

10/26/98

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	285 of 368

50 40 30 20 10 0 10 20 30 40 50

855 850 845 840 835 830 825 820 815 810

828.626

2.28%

0.060

0.060

828.342

828.305

97+60.00

84-FEB-2001 13:25
d13pw25pu, XT D13E2003A2
d13pw25pu_XT-D13E2003A2-39+80-01.dgn

10/26/88

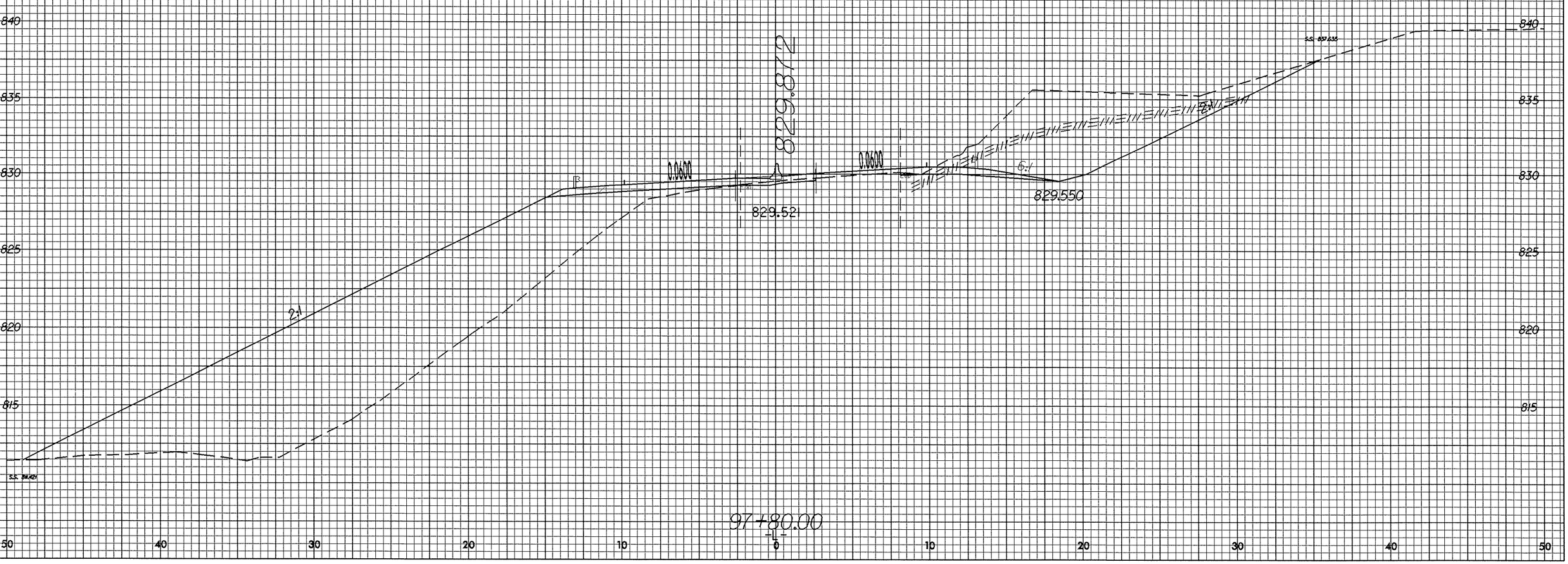
2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	28 of 369

50 40 30 20 10 0 10 20 30 40 50

840 835 830 825 820 815



50 40 30 20 10 0 10 20 30 40 50

840 835 830 825 820 815

04-FEB-2004 13:41
C:\projects\R2518A\R-2518A-29+80-roll.dgn
dl3wp2now 01562203842

10/26/98

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	287 OF 368

2.5 0 2.5 5

METRIC

50 40 30 20 10 0 10 20 30 40 50

840 835 830 825 820 815

832.562

832.028

0.043

0.043

2:1

2:1

SS. 817.962

SS. 825.234

98+20.00

831.184

830.677

0.0546

0.0546

2:1

2:1

SS. 821.448

SS. 822.388

98+00.00

50 40 30 20 10 0 10 20 30 40 50

840 835 830 825 820 815

04-FER-2518A_3418
d13x26ow 04-01-1998 08:39
d13x26ow AM 01-30-2008:42

10/26/88

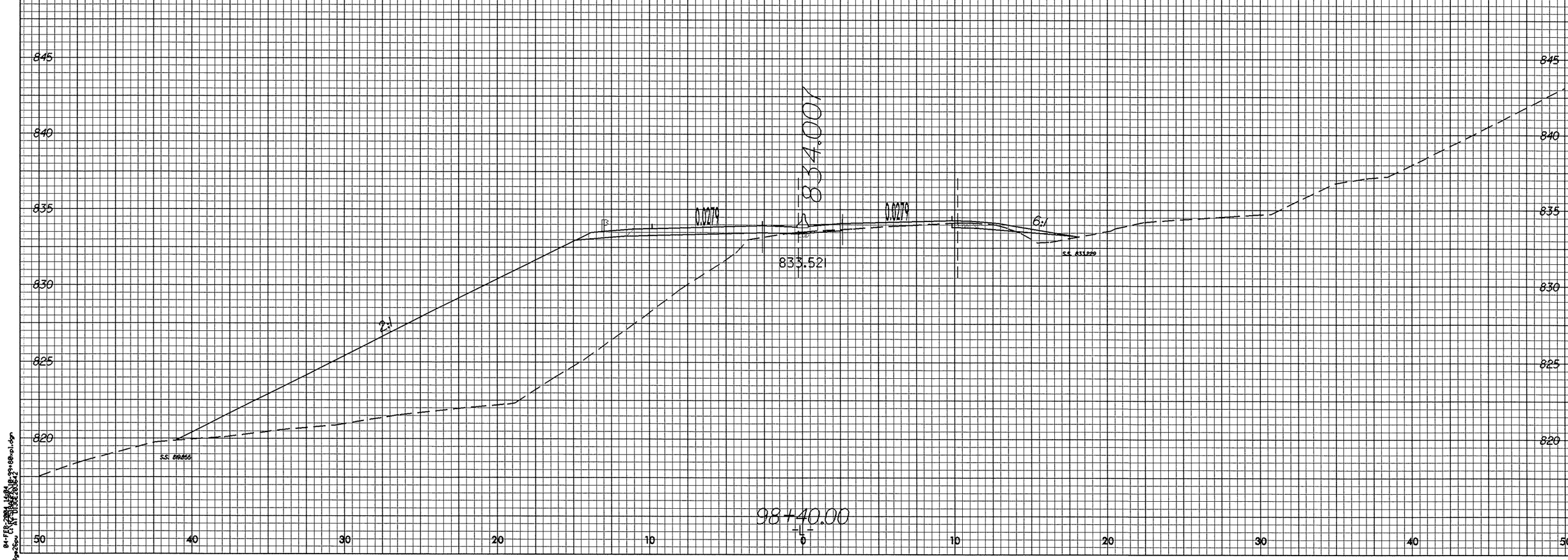
2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	288 OF 368

50 40 30 20 10 0 10 20 30 40 50

845 840 835 830 825 820



50 40 30 20 10 0 10 20 30 40 50

845 840 835 830 825 820

84-FER-2.0(84)18-39+88-01.dgn
d13pw26ow AT D13SE2003E2

10/26/98

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	289 of 368

2.5 0 2.5 5

METRIC

50 40 30 20 10 0 10 20 30 40 50

850 845 840 835 830 825 820

2:1

SS 824056

0.0200

835.105

835.485

0.0146

6:1

834694

2:1

98+60.00

50 40 30 20 10 0 10 20 30 40 50

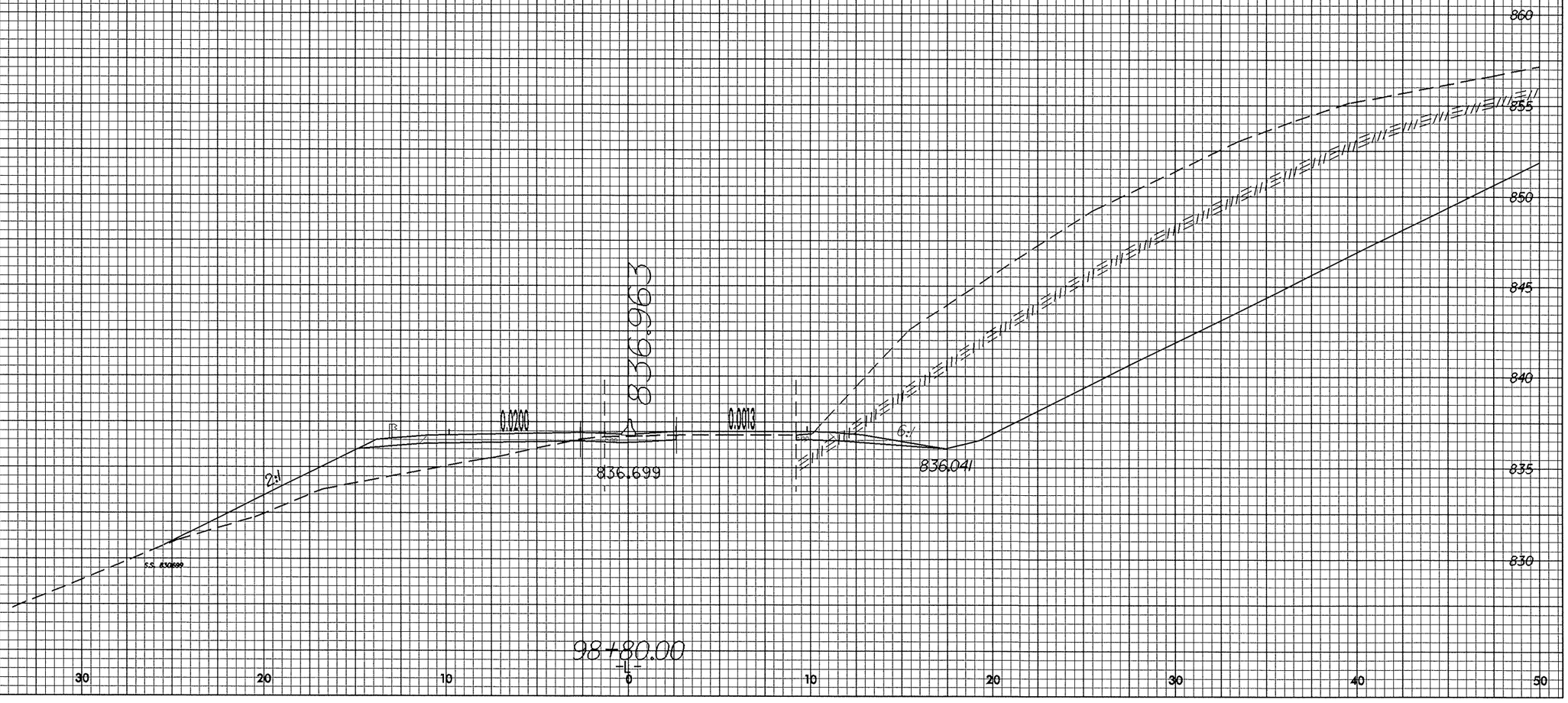
04-FEB-2004 11:42
d13ge26cu
N:\DESIGN\2518A\SS-1.dgn

10/26/98

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	290 of 368



04-FEB-2004 12:28
d13ga250u
AT D:\SE\2838\2838-39+80-sol.dgn

10/26/98

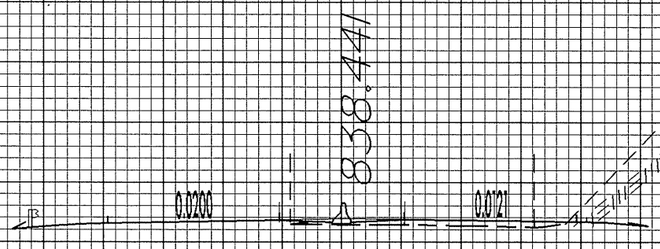
2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	291 of 368

50 40 30 20 10 0 10 20 30 40 50

895
890
885
880
875
870
865
860
855
850
845
840



99+00.00

84-FEB-2004 13:05
d13pw25pw1 - AT 01S3E2003A2

2.5 0 2.5 5 METRIC

99+20
50 M RT

COLLUVIUM. BOULDERS

REC=92% RQD= 90%
REC=100% RQD=89%
REC=79% RQD=56%
REC=100% RQD=96%
REC=100% RQD=62%
REC=97% RQD=95%
REC=99% RQD=81%
REC=96% RQD=21%
REC=100% RQD=78%
REC=99% RQD=99%
REC=100% RQD=96%
REC=94% RQD=53%

REC=100% RQD=0%

0.0200

0.0200

6:1

838.788

839.652

RDWY FILL

99+20.00

"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."

10/26/95

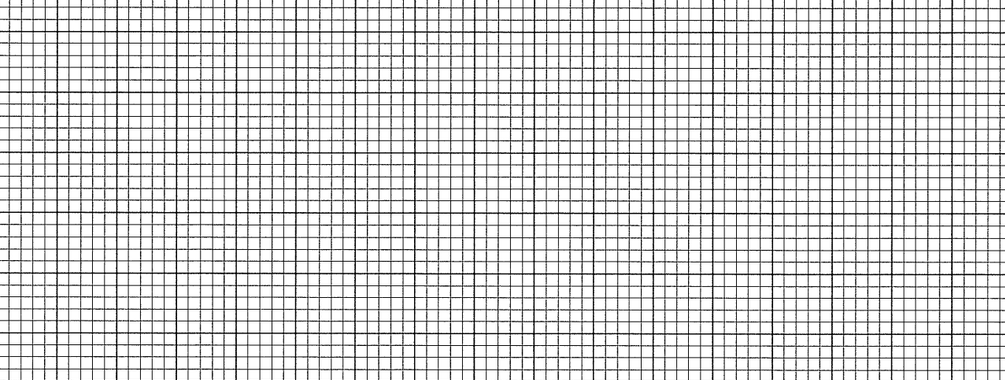
2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	293 OF 369

50 40 30 20 10 0 10 20 30 40 50

875 870 865 860 855 850 845 840 835 830 825



99+40.00

84-FEB/2518A/12/15/95 13:39 d13se26bw1 AT 01 SSE 26 3E 2

50 40 30 20 10 0 10 20 30 40 50

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	294 OF 368

2.5 0 2.5 5

METRIC

10 0 10 20 30 40 50 60 70 80

885 880 875 870 865 860 855 850 845 840

0.0000 0.0000

842.51

841.744

99+60.00

1.50%

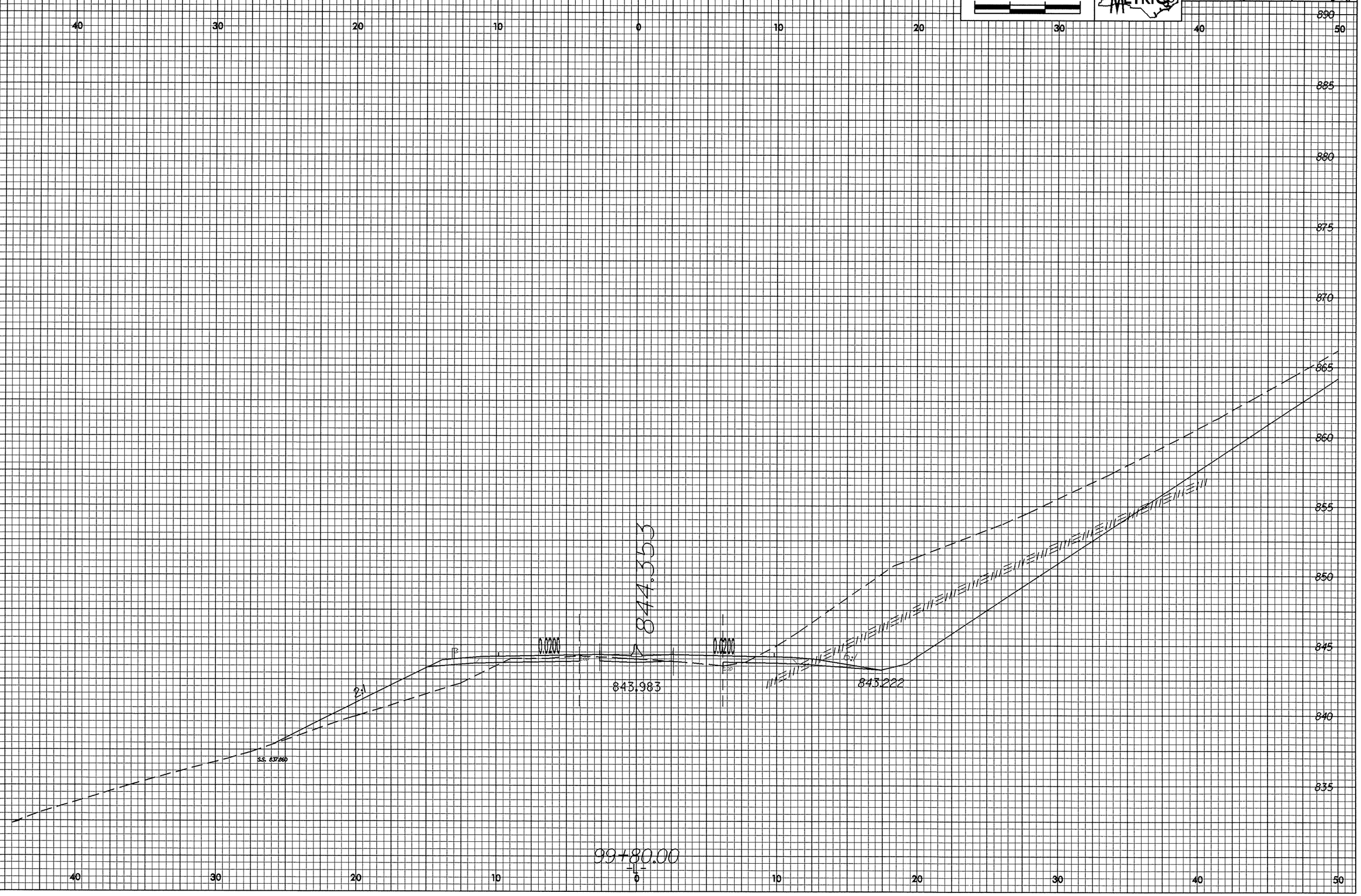
"QUANTITIES ARE APPROXIMATE ONLY. THE RESIDENT ENGINEER WILL RECROSS-SECTION THE WORK ACCURATELY WHEN THE PROJECT IS STAKED OUT. THESE CROSS-SECTION NOTES WILL BE USED IN COMPUTING THE FINAL QUANTITIES FOR WHICH THE CONTRACTOR WILL BE PAID."

10/26/98

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	295 of 368



94-FER-2518A-1U4R2
ST 0352 20342
d13gn25pw, ER 98 10 26 09:39:48 c:\pi\...dgn

10/26/98

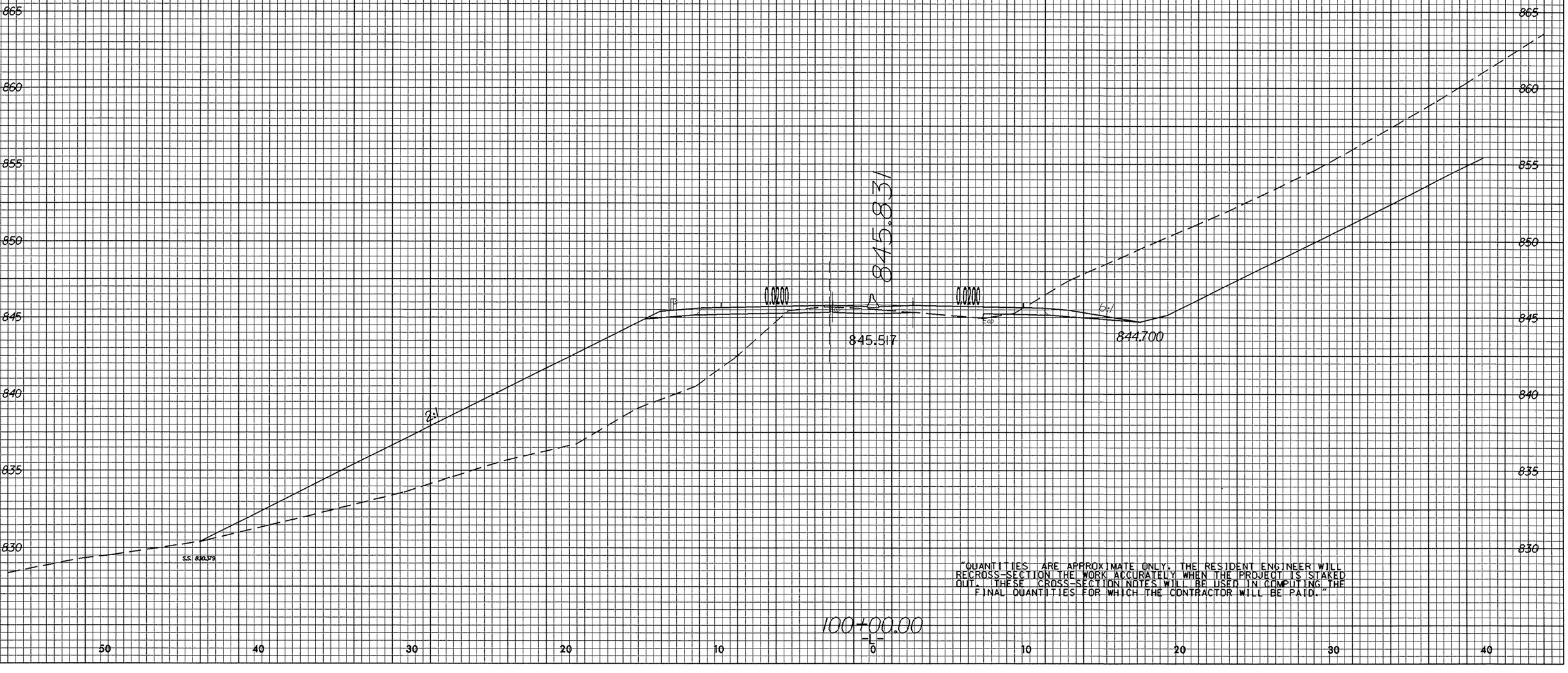
2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	296 of 368

50 40 30 20 10 0 10 20 30 40

865 860 855 850 845 840 835 830



10-FEB-2004 10:25
d13se2cou C:\D13SE2\03812\Cross Sections\100+00.dgn

10/26/98

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	297 of 368

60 50 40 30 20 10 0 10 20 30

875 870 865 860 855 850 845 840 835 830 825

0.0200 0.0200

847.309

847.159

846.178

2:1

SS. 825DR

VAR.

100+20.00

-L-

60 50 40 30 20 10 0 10 20 30

38-LNS-2PRO-BRGS
d13pw25cp LNS-2PRO-BRGS 1994+60sp1.dgn
07/31/2002 08:42:42

10/26/98

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO. R-2518A

SHEET NO. 298 OF 368

60 50 40 30 20 10 0 10 20 30

870 865 860 855 850 845 840 835 830 825

0.020 0.020

847.656

847.681

847.847

21

100+40.00

60 50 40 30 20 10 0 10 20 30

dp1=p2=psu, ET 10/26/98 08:35
30-JAN-2004 08:35
dp1=p2=psu, ET 10/26/98 08:35
dp1=p2=psu, ET 10/26/98 08:35
dp1=p2=psu, ET 10/26/98

10/26/98

PROJECT REFERENCE NO.	SHEET NO.
R-2518 A	259 of 368

2.5 0 2.5 5

60 50 40 30 20 10 0 10 20 30

860 855 850 845 840 835 830 825

0.020 0.020 2:1 2:1

850.265 849.134 847.851

100+60.00 -L-

d13pe25pu, 30-JAN-2001 08:37
dgn 01362\2518a\gp\gp184+60-pl.dgn

10/26/98

PROJECT REFERENCE NO.	SHEET NO.
R-2518 A	300 OF 368

2.5 0 2.5 5

METRIC

60 50 40 30 20 10 0 10 20 30

860 855 850 845 840 835 830 825 820

0.020 0.020

2:1

6:1

SS 85x30

850.612

845.893

85+47.39

PROPOSED RET. WALL

100+80
48 M LT

12 18 43 100

SAPROLITE:
GRAY/WHITE/BLK DENSE SILTY SAND

WEATHERED RK

100+80.00

60 50 40 30 20 10 0 10 20 30

d13pw25pu1 30-JAN-2004 08:30 $DGN/R2518A_100+80-pl.dgn

10/26/98

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	301 OF 368

2.5 0 2.5 5

METRIC

60 50 40 30 20 10 0 10 20 30

860 855 850 845 840 835 830 825

0.0000

0.0120

853.221

SS. 852737

6:1

6:1

852.040

844.545

2:1

PROPOSED RET. WALL

101+00.00

60 50 40 30 20 10 0 10 20 30

30-[INT-2]-[INT-2]-[INT-2]

10/26/98

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518 G	32 of 34

60 50 40 30 20 10 0 10 20 30

860 855 850 845 840 835 830

0.02000 0.02000

854.00

2:1

SS 854.00

2:1

PROPOSED RET. WALL

842.139

101+20.00

60 50 40 30 20 10 0 10 20 30

860 855 850 845 840 835 830

38-LIVE-2004_SRC(3)
d13ex26ew AT 01362008.2

10/25/38

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	303 OF 368

2.5 0 2.5 5

60 50 40 30 20 10 0 10 20 30

865 860 855 850 845 840 835 830

856.78

RDWY FILL

3:1

2:1

55 BLVD

101+40

℄

13
8
33
7
46
100

BRN/TAN/BLK SILTY/CLAYEY SAND W/MIC

COLLUVIUM

SAPROLITE

WHITE/ORANGE/BRN SILTY SAND

WEATHERED RK

101+40.00

60 50 40 30 20 10 0 10 20 30

30-UNS-2004 09:10
d13ge26cu
AT 01SCE2003E2

10/26/98

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	30 of 368

2.5 0 2.5 5

METRIC

60 50 40 30 20 10 0 10 20 30

865 860 855 850 845 840 835 830

857.656

2:1

2:1

SS. 844.69

844.104

101+60.00

60 50 40 30 20 10 0 10 20 30

38-1(05-2004) (8801)
d13pe25pu (1:25) 10/26/98 10:42:12
K:\TIP\R2518A\Design\R2518A_184+60-xp1.dgn

10/26/98

PROJECT REFERENCE NO.	SHEET NO.
R-2518 A	365 OF 378

2.5 0 2.5 5

METRIC

60 50 40 30 20 10 0 10 20 30

865 860 855 850 845 840 835 830

859.34

0.020 0.020

2:1

SS 83.75'

845.651

2:1

10+80.00

60 50 40 30 20 10 0 10 20 30

30-JAN-2001 08:17
d13ep25cn
d13ep25cn_d1_1841+60_pl.dgn

2.5 0 2.5 5

METRIC

10/26/98

60 50 40 30 20 10 0 10 20 30

870 865 860 855 850 845 840 835 830 825

0.0200 0.0200

2.0%

2.0%

PROPOSED RET. WALL

102+00
38 M LT

56
5
24
16
32
100

BRN/GRAY SANDY CLAY W/RK FRAGS AND BOULDERS

COLLUVIUM/ALLUVIUM

WEATHERED RK

844.743

102+00.00

S.S. 853765

879.938

10/26/98

PROJECT REFERENCE NO.	SHEET NO.
A-2518A	307 of 368

2.5 0 2.5 5

METRIC

60 50 40 30 20 10 0 10 20 30

870 865 860 855 850 845 840 835

0.020 0.020

PROPOSED RET. WALL

852.090

55.854262

844.251

102+20.00

30-UNK-2518A-RW1
d13ge26cu1 AT 01/26/2038x42

60 50 40 30 20 10 0 10 20 30

2.5 0 2.5 5

METRIC

863+68

PROPOSED RET. WALL

2:1

2:1

102+43
10 M LT

847.960

FILL:
ORANGE STIFF CLAY W/WEATHERED RK.GRAVEL

102+40
38 M LT

FILL: GREY ORANGE SANDY CLAY

SAPROLITE: WHT. ORANGE BLK. CLAYEY SAND

WEATHERED ROCK:

6	8
66	8
19	10
100	12
32	29
21	16
100	31
100	21
	114
	100

102+40.00
-L-

60 50 40 30 20 10 0 10 20 30

870 865 860 855 850 845 840 835 830 825

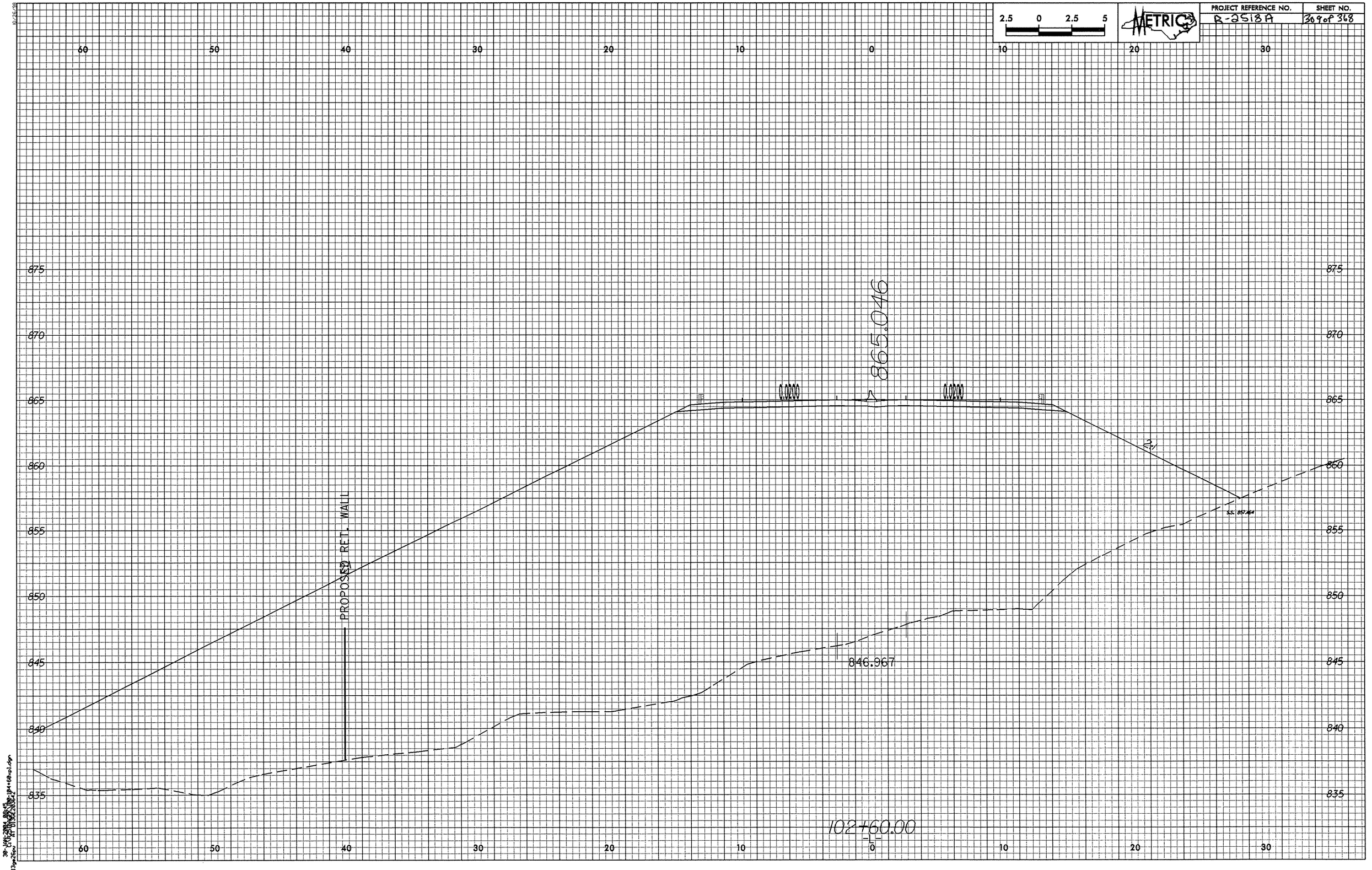
10/26/28
30-JAN-2008 08:10
d13pe26cu
AT 0.0625 X 0.0625

10/26/98

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	369 of 368



30-UNS-2004 08:45
d13wp25cn

10/26/98

PROJECT REFERENCE NO.	SHEET NO.
R-2618A	310 of 368

2.5 0 2.5 5

METRIC

60 50 40 30 20 10 0 10 20 30

875 870 865 860 855 850 845 840

0.020 0.020

PROPOSED RET. WALL

2:1

2:1

2:1

EL. 865.076

EL. 865.998

847.672

-L-

102+80.00

30-JAN-2004 08:46
d:\3pw26cu\1\5\2618a\2618a_194+68+pl.dgn

10/26/98

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	311 of 368

60 50 40 30 20 10 0 10 20 30

875 870 865 860 855 850 845 840 835 830 825

868.002

0.020 0.020

2:1

PROPOSED RET. WALL

2:1

SS 854+84

847.154

102+99
36 M LT

COLLUVIUM/ALLUVIUM

S

16
14
100

WEATHERED ROCK

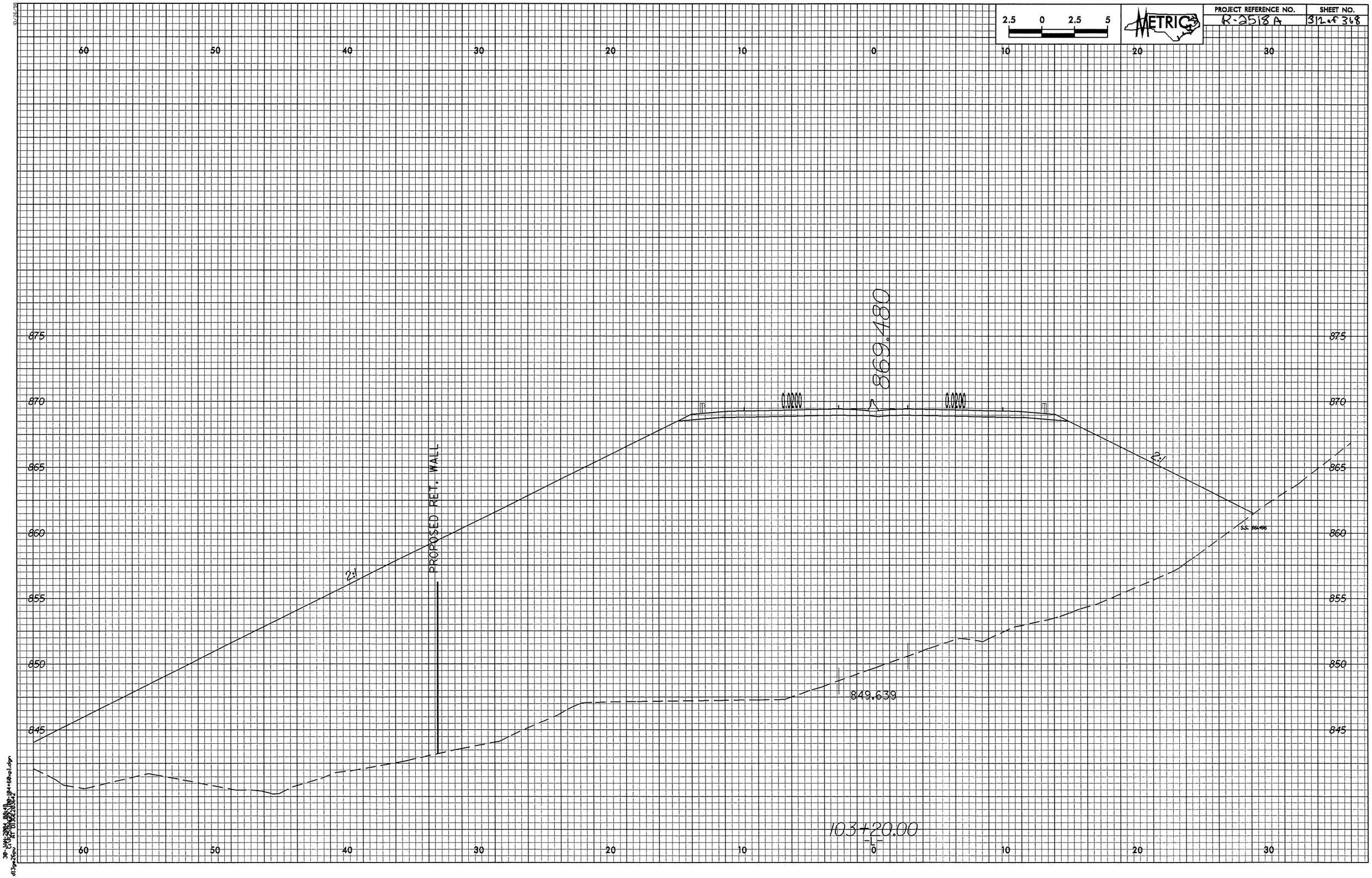
103+00.00
-L-

60 50 40 30 20 10 0 10 20 30

38-Unit 2004 88-47 Top 104+68.rpl.dgn
d13gw26a

2.5 0 2.5 5

METRIC



10/26/98

PROJECT REFERENCE NO.	SHEET NO.
R-2518 A	313 OF 368

2.5 0 2.5 5

METRIC

60 50 40 30 20 10 0 10 20 30

880 875 870 865 860 855 850 845 840

870.958

0.0200 0.0200

2:1

PROPOSED RET. WALL

2:1

SS 864.397

103+31
27 M LT

852.670

5
22
41
58
38
60

WEATHERED ROCK

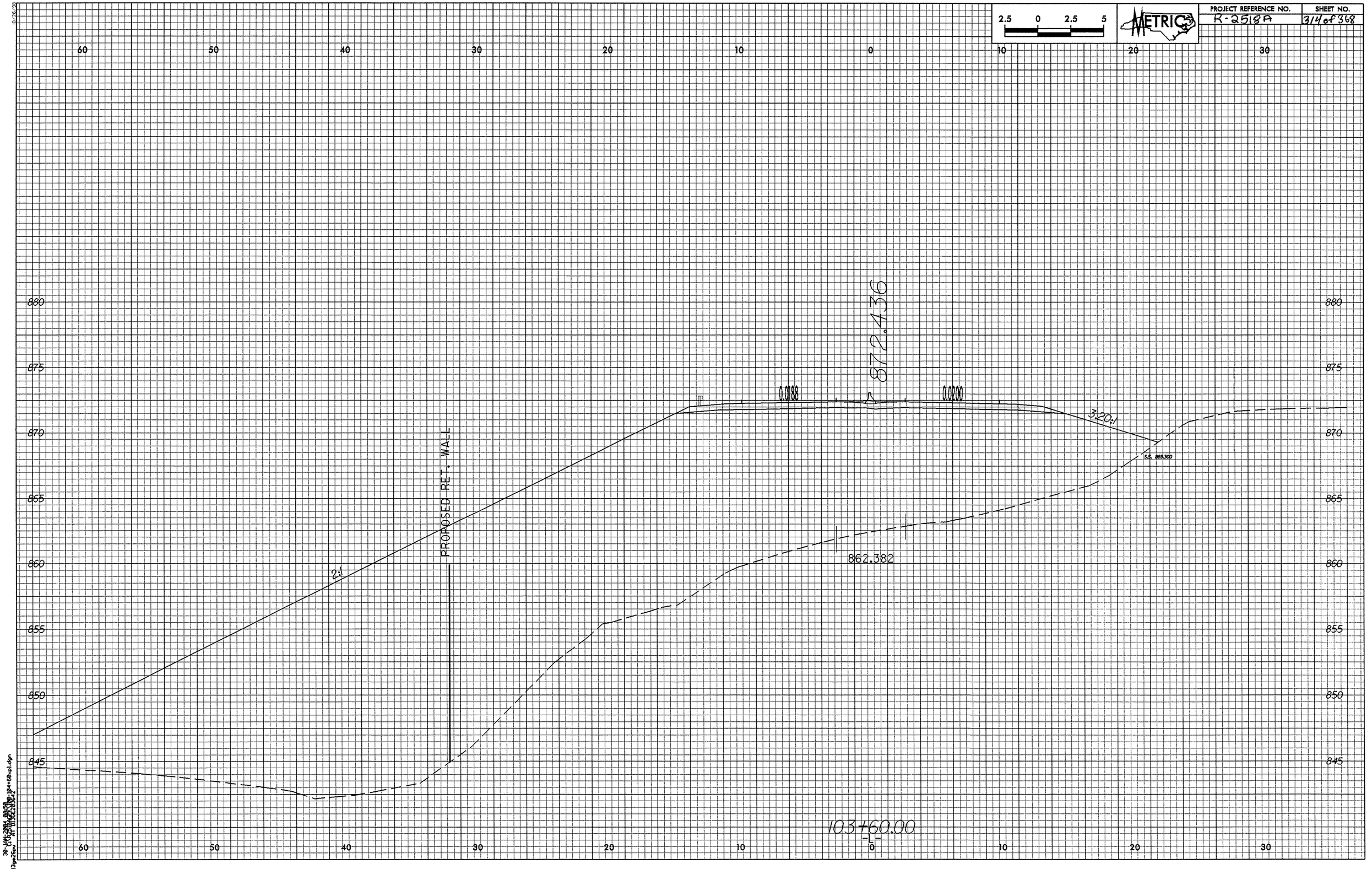
-L-
103+40.00

60 50 40 30 20 10 0 10 20 30

38-JAN-2006 08:16
d13pw25pw, PT 01X2E203x2

2.5 0 2.5 5

METRIC



10/26/98

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	315 OF 368

2.5 0 2.5 5

METRIC

60 50 40 30 20 10 0 10 20 30

880 875 870 865 860 855 850

873.914

0.0054

0.0200

SIS. 87+382

6:1

6:1

872.783

2A

863.641

103+80.00

38-1(10)-2004_8853
d13ge25cm_d1 07/15/98 08:42
dgn 101SE20B24_184+60to1.dgn

10/26/98

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	316 OF 368

2.5 0 2.5 5

METRIC

60 50 40 30 20 10 0 10 20 30

885 880 875 870 865 860 855 850

87.392

0.0079

0.0200

874.261

868.353

2:1

104+00.00

30-JAN-2004 08:57
d13pe26cu
d:\projects\2002\2002442\roadway\sheets\plan\p104+60-pl.dgn

10/26/98

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	317 of 318

2.5 0 2.5 5

METRIC

60 50 40 30 20 10 0 10 20 30

905 900 895 890 885 880 875 870 865 860 855 850

0.0213

875.542

875.500

0.0213

875.725

874.959

2:1

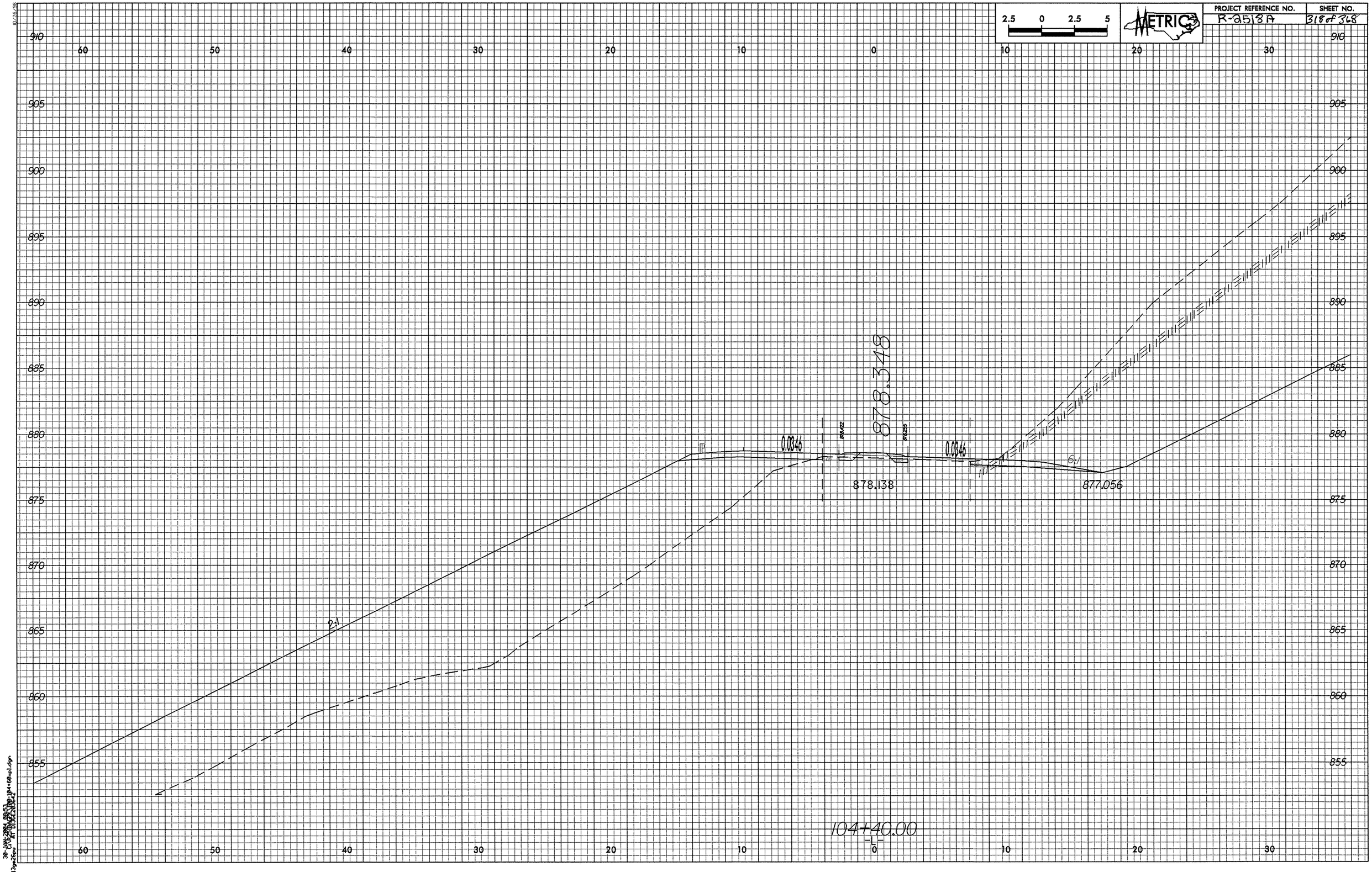
104+20.00

0280978

30-JAN-2004 08:57
d13pe26pu
K:\DOT\DESIGN\R2518A\194+68p1.dgn

2.5 0 2.5 5

METRIC



2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO. R-2518A

SHEET NO. 319 of 319

$$$$$$$$$$EXISTING$$$$$$$$$$
$$$$$$$$$$CONSTRUCTION$$$$$$$$$$
$$$$$$$$$$ROADWAY$$$$$$$$$$

20 10 0 10 20 30 40 50 60 70

965 920 915 910 905 900 895 890 885 880 875 870

Y1

878.800

Y2

878.539

878.361

0.04179

0.04179

Y1 B

Y1 E

S.S. 875.413

104+60.00

10/26/38

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	320 of 368

925 920 915 910 905 900 895 890 885 880 875 870

50 40 30 20 10 0 10 20 30 40 50

S.S. 881.785

6:1 6:1 6:1

0.0600 0.0600 0.0600

660.839

879.588

104+80.00

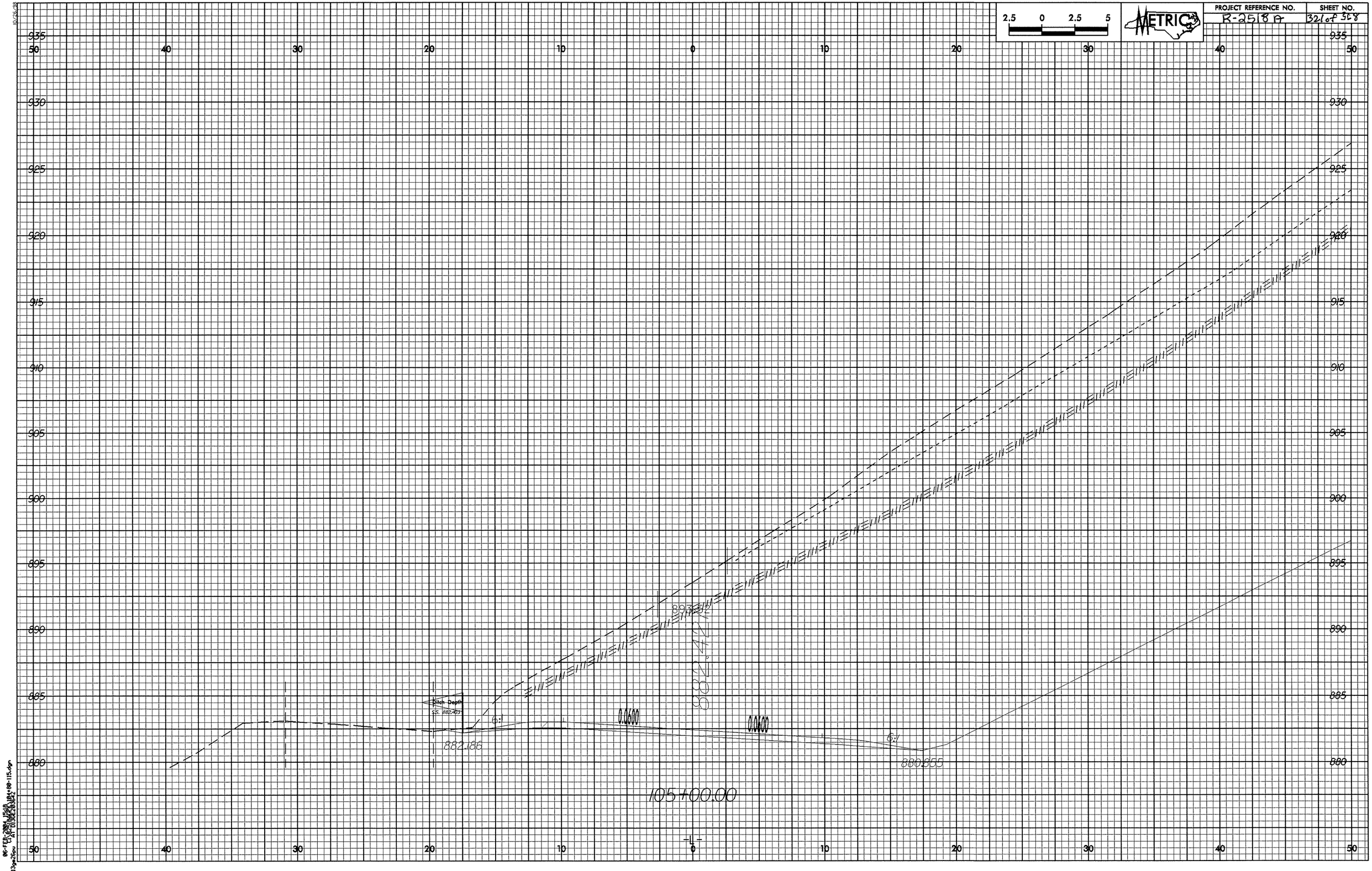
06-FEB-2008 (WED)
d13pw26cu
C:\Projects\R-2518A\104+80-115.dgn
AT 0.9982283842

10/26/98

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	321 of 358



06-FEB-2004 15:10
d13se26cu
AT:\DESIGN\104+88-115.dgn

105+00
69 M RT

940
935
930
925
920
915
910
905
900
895
890

SAPROLITE: ORANGE BROWN AND BLACK CLAYEYSANDY SILT

24
100

WEATHERED ROCK

REC=83% RQD=12%
REC=98% RQD=8%
REC=75% RQD=24%
REC=91% RQD=14%
REC=86% RQD=0%

REC=97% RQD=36%
REC=99% RQD=0%
REC=99% RQD=7%
REC=100% RQD=8%
REC=98% RQD=10%
REC=96% RQD=23%
REC=97% RQD=23%
REC=100% RQD=11%
REC=99% RQD=0%
REC=93% RQD=22%
REC=99% RQD=24%
REC=100% RQD=47%
REC=93% RQD=29%
REC=93% RQD=29%
REC=98% RQD=10%
REC=100% RQD=32%
REC=99% RQD=8%
REC=95% RQD=22%
REC=96% RQD=30%
REC=88% RQD=20%
REC=106% RQD=27%

2:1

893.22

105+00.00

2.5 0 2.5 5

50 40 30 20 10 0 10 20 30 40 50

905 900 895 890 885

899.676

883.600

0.0600 0.0600

2:1 6:1 6:1

S.S. 886.087

883.358

882.027

105+20.00

"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."

10-FEB-2004 JONE
d:\3pedot\projects\2518a\roadway\105+20-1.dgn

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	324 of 368

50 40 30 20 10 0 10 20 30 40 50

910 905 900 895 890 885

902.085

884.678

ss. 888.58

6.2%

0.0600

0.0600

6.1%

883.106

105+40.00

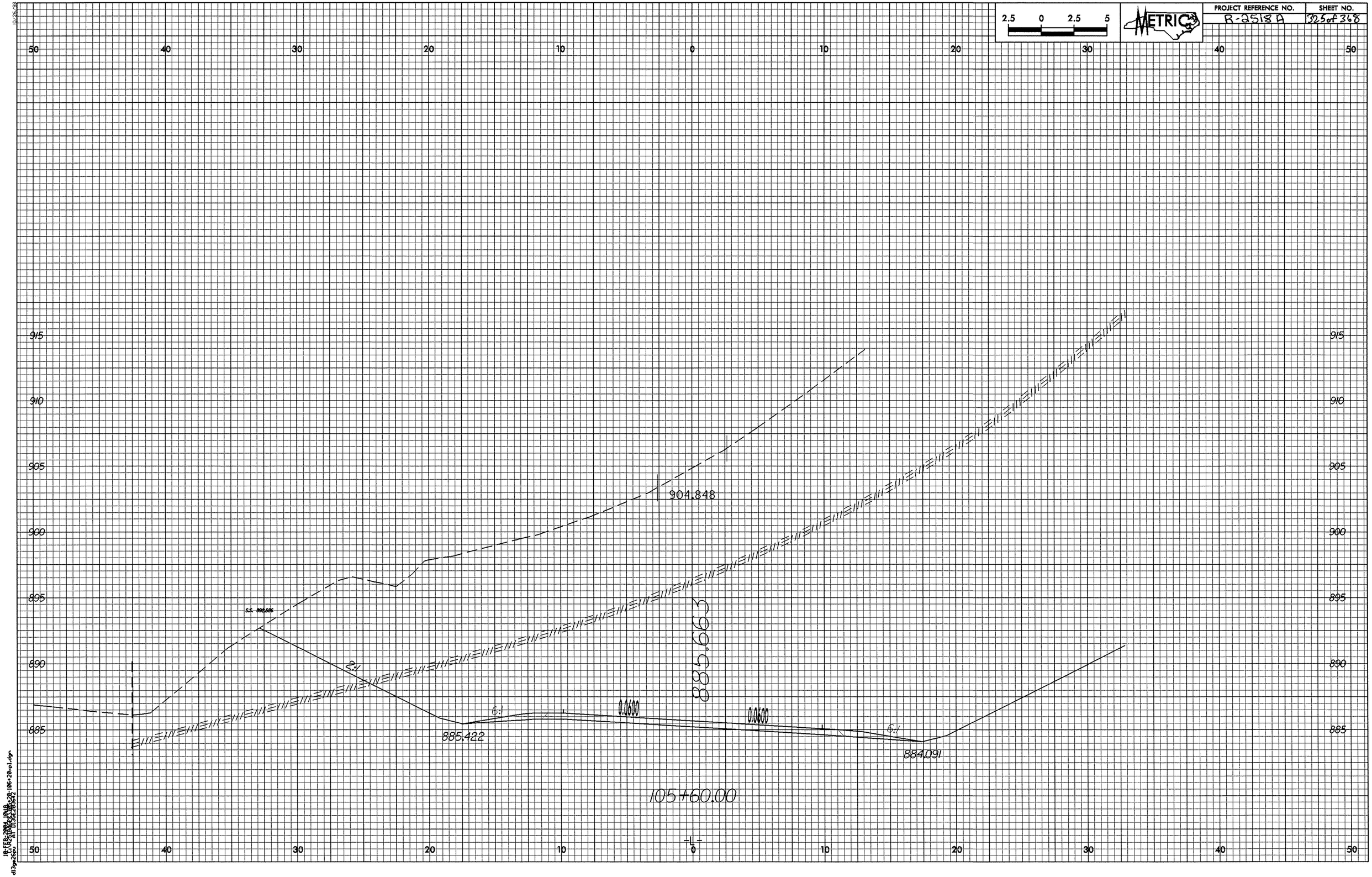
18:[EBK-2002-1017]
d13pe265u AT 01302.265522

10/26/98

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	325 of 368



TP-TEB-2004.dgn
d13ge26cu 01/13/98 08:28:18 6+28-01.dgn

10/26/98

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	326 OF 368

50 40 30 20 10 0 10 20 30 40 50

920 915 910 905 900 895 890 885

909.897

S.S. 895.895

6:1

886.313

0.0600

0.0600

6:1

884.982

886.554

105+80.00

50 40 30 20 10 0 10 20 30 40 50

10-FEB-2004 (ROJB)
d13pe26cu

105+78
95 M RT

SAPROLITE: WHITE BRN. BLK SANDY SILT

WEATHERED ROCK

74
100

REC=10% RQD=0%
REC=25% RQD=0%
REC=14% RQD=0%
REC=48% RQD=10%
REC=83% RQD=20%
REC=55% RQD=0%
REC=74% RQD=10%
REC=60% RQD=14%
REC=91% RQD=10%
REC=70% RQD=0%
REC=62% RQD=0%
REC=68% RQD=0%
REC=89% RQD=0%
REC=84% RQD=0%
REC=95% RQD=0%
REC=84% RQD=23%
REC=98% RQD=8%
REC=82% RQD=0%
REC=67% RQD=17%
REC=97% RQD=7%
REC=98% RQD=17%
REC=100% RQD=0%
REC=98% RQD=18%
REC=100% RQD=19%
REC=93% RQD=16%
REC=100% RQD=36%
REC=96% RQD=33%
REC=98% RQD=24%
REC=100% RQD=31%
REC=99% RQD=57%
REC=97% RQD=68%
REC=95% RQD=53%
REC=100% RQD=38%

105+80.00

10/26/95

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	328 of 368

50 40 30 20 10 0 10 20 30 40 50

925 920 915 910 905 900 895 890 885

912.284

SS 898.207

2:1

887.109

6:1

0.0600

0.0600

6:1

885.776

887.551

106+00.00

10:56:28 PM
d13se25pc, RAY 0532.265642
I:\ES\2004\2004-106-28\vol.dgn

2.5 0 2.5 5

50 40 30 20 10 0 10 20 30 40 50

935 930 925 920 915 910 905 900 895 890 885

106+10
17 M LT

106+12
14 M RT

106+20.00

COLLUVIUM: ORANGE AND BROWN CLAYEY SANDWITH ROCK FRAGMENTS

916.637

BOULDER

SAPROLITE: BROWN AND TAN ROCK FRAGMENTSAND SILTY SAND

SAPROLITE: BROWN AND TAN ROCK FRAGMENTSAND SANDY SILT

REC=57% RQD=0%
REC=61% RQD=0%
REC=64% RQD=19%
REC=44% RQD=0%
REC=47% RQD=0%
REC=73% RQD=26%
REC=84% RQD=61%
REC=96% RQD=38%
REC=95% RQD=47%
REC=92% RQD=87%
REC=95% RQD=61%
REC=98% RQD=90%
REC=100% RQD=79%
REC=95% RQD=87%
REC=98% RQD=76%
REC=98% RQD=35%

8
14
70

REC=0% RQD=0%
REC=27% RQD=0%
REC=28% RQD=0%
REC=52% RQD=0%
REC=95% RQD=0%
REC=74% RQD=9%
REC=70% RQD=0%
REC=100% RQD=13%
REC=97% RQD=9%
REC=97% RQD=0%
REC=100% RQD=58%
REC=100% RQD=59%
REC=99% RQD=33%
REC=100% RQD=63%
REC=99% RQD=73%
REC=100% RQD=92%
REC=100% RQD=85%
REC=100% RQD=100%
REC=100% RQD=100%

2:1
6:1
0.0600
0.0600

8880.54

10/26/98
10:[REDACTED]
d13se26cu AT 0.332.20342

10/26/98

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	330 OF 368

940 935 930 925 920 915 910 905 900 895 890 885

50 40 30 20 10 0 10 20 30 40 50

918.384

SHEAR TO HWY

886.662

886.999

0.0600 0.0600 0.0600

6.4

106+40.00

-L-

06-FEB-2001 15:25
d13se26cu
I:\projects\2001\01384\203842\dgn\01384203842-115.dgn

10/26/98

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	331 OF 368

106+60
5 M LT

COLLUVIUM GNEISS BOULDERS

915.234

26
72
100

SAPROLITE: WHT. BR. ORGN. TAN SILTY SAND

WEATHERED ROCK:

REC=84% RQD=56%

REC=68% RQD=37%
REC=97% RQD=91%
REC=100% RQD=83%
REC=66% RQD=53%
REC=91% RQD=33%
REC=100% RQD=100%
REC=99% RQD=87%
REC=93% RQD=75%
REC=99% RQD=40%
REC=97% RQD=91%

SS 902241

6:1

888.936

6:1

887.452

0.0600

0.0600

106+60.00

50 40 30 20 10 0 10 20 30 40 50

930 925 920 915 910 905 900 895 890

06-FEB-2004 15:26
d13gw26pu

10/26/38

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	332 of 368

50 40 30 20 10 0 10 20 30 40 50

930 925 920 915 910 905 900 895 890

919.654

S.S. 902345

2:1

6:1

0.0500

0.0500

6:1

889.357

888.026

889.966

106+80.00

50 40 30 20 10 0 10 20 30 40 50

06-FEB-2014 15:27
d13ge26pw
U:\Projects\R-2518A\Roadway\Design\Sheets\R2518A_SS_08+80-115.dgn

10/26/98

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	383.F369

925.813

889.684

888.353

6:1

6:1

6:1

0.0600

0.0000

889.926

107+00.00

SS. 902.864

06-FEB-2004 15:58
d13ow26pu

10/26/98

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	334 of 368

2.5 0 2.5 5

METRIC

107+10
8.4 M RT

8
8
10
27
25
72

REC=0% RQD=0%
REC=9% RQD=0%
REC=30% RQD=0%
REC=89% RQD=23%
REC=98% RQD=48%
REC=63% RQD=18%
REC=96% RQD=35%
REC=99% RQD=44%
REC=93% RQD=91%
REC=96% RQD=41%
REC=98% RQD=62%
REC=98% RQD=75%
REC=100% RQD=49%
REC=96% RQD=59%
REC=95% RQD=84%
REC=99% RQD=99%

SAPROLITE AND WEATHERED RK

SS 20:1

2:1

6:1

0.0600

0.0600

6:1

889.918

888.587

107+20.00

50 40 30 20 10 0 10 20 30 40 50

935 930 925 920 915 910 905 900 895 890

06-FEB-2001 15:23
d13pw26cw

10/26/98

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	335 OF 368

50 40 30 20 10 0 10 20 30 40 50

935
930
925
920
915
910
905
900
895
890

919.770

SS 900454

2:1

890.057

6:1

0.0600

0.0600

6:1

888.726

890.256

107+40.00

-L-

50 40 30 20 10 0 10 20 30 40 50

06-FEB-2004 11:58
d13se26cu

2.5 0 2.5 5

METRIC

107+60
48 M RT

RESIDUAL: ORNG. BRN. BL. GREY SILTY CLAY

5
5
13
9
100

WEATHERED ROCK

REC=28% RQD=0%
REC=24% RQD=5%
REC=0% RQD=0%
REC=20% RQD=0%
REC=61 RQD=0%
REC=4% RQD=0%
REC=93% RQD=0%
REC=93% RQD=0%
REC=96% RQD=31%
REC=99% RQD=19%
REC=97% RQD=53%
REC=100% RQD=44%
REC=90% RQD=21%
REC=98% RQD=27%
REC=95% RQD=76%
REC=97% RQD=65%

914.924

890.343

890.102

888.771

0.0600

0.0600

6:1

2:1

107+60.00

"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."

30 20 10 0 10 20 30 40 50 60

935 930 925 920 915 910 905 900 895 890

10/25/99

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	337 of 368

50 40 30 20 10 0 10 20 30 40 50

930
925
920
915
910
905
900
895
890

907+643

5.8%

888.831

990.053

0.0600

0.0600

5.8%

888.722

15%

107+80.00

50 40 30 20 10 0 10 20 30 40 50

06-FEB-2004 15:32
d13pw25pu, U:\PROJECTS\2518A\DGN\2518A-08-115.dgn

10/26/98

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	338 of 368

50 40 30 20 10 0 10 20 30 40 50

925 920 915 910 905 900 895 890

889.916

0.0600

6:1

5.5' 889.981

889.275

889.275

889.275

0.0600

6:1

888.579

901.534

15:1

108+00.00

-L-

86-FEB-2001 15:53
d13ge26pw
AT 01302303412
d13ge26pw_01302303412+00-115.dgn

10-26-98

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518 A	339 of 348

50 40 30 20 10 0 10 20 30 40 50

900 895 890 885

SS. 890058

6:1

6:1

889.343

0.0600

888.507

0.0600

889.694

SS. 890387

2:1

6:1

888.012

910 905 900 895 890

108+40.00

Ditch Depth

889.674

6:1

0.0600

889.570

0.0600

6:1

888.343

1.5:1

108+20.00

50 40 30 20 10 0 10 20 30 40 50

06-FEB-2001 15:33
jlong
d13ax25cv

10/26/38

PROJECT REFERENCE NO.	SHEET NO.
R-2513A	340 OF 368

2.5 0 2.5 5

METRIC

50 40 30 20 10 0 10 20 30 40 50

895 890 885 880

888.029

0.0600 0.0000

887.627

2:1 3 2:1

SS: 880.07 SS: 884.085

109+00.00

888.647

0.0600 0.0000

887.098

2:1 3 2:1

SS: 886.023 SS: 882.035

108+80.00

889.268

0.0600 0.0000

888.918 883.639

6:1 6:1

SS: 889.529 SS: 885.945

108+60.00

895 890 885

06-FEB-2007 15:24
C:\Projects\R-2513A\Roadway\Design\dl3\se26cu_RDY_DW_R2513A_SHT_080-115.dgn

10/26/98

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	34 of 368

2.5 0 2.5 5

METRIC

50 40 30 20 10 0 10 20 30 40 50

895 890 885 880

SHEAR TO -12-

885.775

0.0589 0.0588

2%

2%

SS. 880.208

SS. 880.687

109+40.00

886.522

886.931

0.0600 0.0600

2%

2%

SS. 879.853

SS. 879.896

109+20.00

50 40 30 20 10 0 10 20 30 40 50

895 890 885 880

06-FEB-2001 15:55
C:\projects\R2518A\104+00-115.dgn
d13ew25cw

2.5 0 2.5 5

METRIC

10/26/98

50 40 30 20 10 0 10 20 30 40 50

895 890 885 880

0.0322 0.0322 0.0322

884.639

883.690

S.S. 883596

S.S. 877208

109+80.00

900 895 890 885 880

109+65
35 M LT

11
31
27
52
100

884.639

0.0455 0.0455

884.470

S.S. 883792

S.S. 883089

109+60.00

50 40 30 20 10 0 10 20 30 40 50

06-FEB-2001 15:35
d13pw2cpw1 /projects/projects/pw/d13pw2cpw1/d0002838/sht/d0002838sht-115.dgn

2.5 0 2.5 5 METRIC

90 80 70 60 50 40 30 20 10 0

920 915 910 905 900 895 890 885 880

109+58
80 M LT

50
100

REC = 40% RQD = 0%
REC = 36% RQD = 0%
REC = 84% RQD = 18%
REC = 99% RQD = 36%
REC = 96% RQD = 39%
REC = 99% RQD = 99%
REC = 100% RQD = 27%
REC = 95% RQD = 83%
REC = 100% RQD = 0%
REC = 100% RQD = 57%
REC = 100% RQD = 74%
REC = 100% RQD = 91%
REC = 100% RQD = 87%
REC = 97% RQD = 87%
REC = 100% RQD = 95%

SAPROLITE

BRYNTAN SILTY SAND MIC WITH FRAGS

WEATHERED ROCK

109+65
35 M LT

11
31
27
52
100

REC = 97% RQD = 66%
REC = 88% RQD = 41%

SHEAR TO -Y2I-

0.0455

884.470

"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."

109+60.00

884.627

26-FEB-2014 10:22
d13ge38pu1 C:\Users\...\109+58pp1.dgn

2.5 0 2.5 5

METRIC

50 40 30 20 10 0 10 20 30 40 50

895 890 885 880

SS: 884165

3.46%

6:1

882.808

0.0189

0.0189

0.0189

882.582

882.425

6:1

Ditch Depth

SS: 883565

110+00.00

50 40 30 20 10 0 10 20 30 40 50

06-FEB-2004 14:57
C:\Projects\2518a\104+88-115.dgn
d13ge26cu

10/26/98

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	345 of 368

50 40 30 20 10 0 10 20 30 40 50

905 905

900 900

895 895

890 890

885 885

880 880

2%

6:1

0.0055

0.0055

6:1

6:1

S.S. 881888

881.500

881.473

881.392

882.357

110+20.00

50 40 30 20 10 0 10 20 30 40 50

06-FEB-2001 15:58
S:\Projects\2518A\Roadway\Sheets\2518A_sht0115.dgn
dl3gm26pw

10/26/98

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2513A	346 of 368

945 940 935 930 925 920 915 910 905 900 895 890

50 40 30 20 10 0 10 20 30 40 50

110+40.00

06-FEB-2004 14:53
d13se26pu

$$$$USER$$$$\projects\8.1944\80-115.dgn

10/26/98

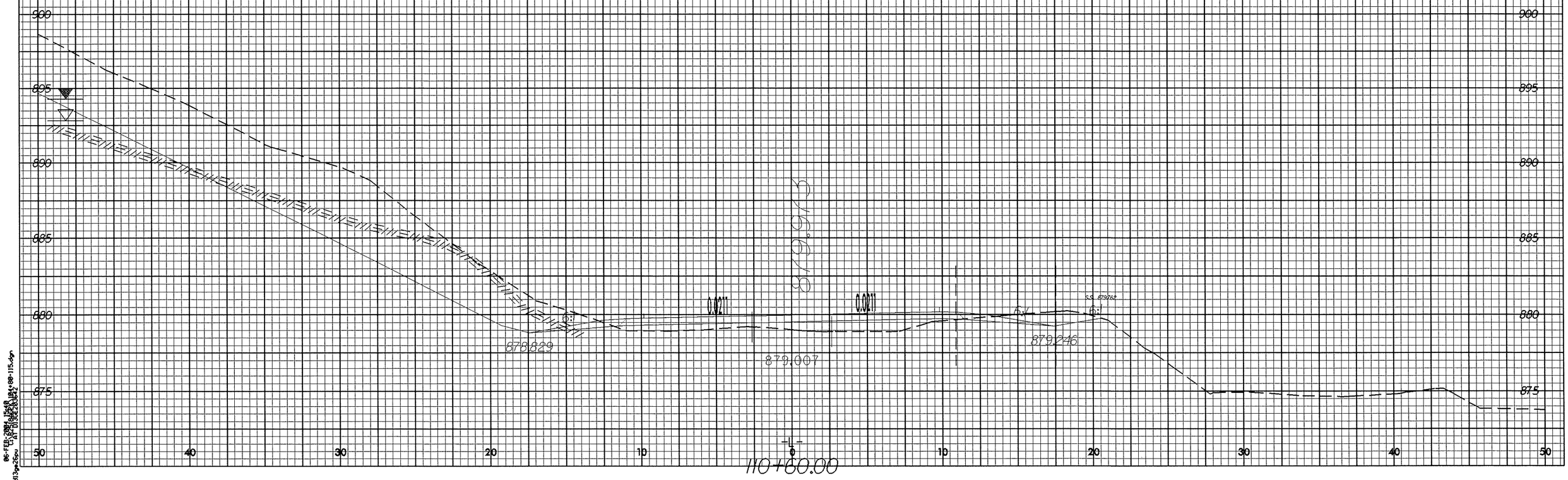
2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2513A	347 of 368

50 40 30 20 10 0 10 20 30 40 50

900 895 890 885 880 875



86-FEB-2001 15:58
d13ge26cu
$DGN: d13ge26cu.dgn
$USR: DOT$DGN:d13ge26cu-115.dgn

10/26/98

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	348 of 368

50 40 30 20 10 0 10 20 30 40 50

915 910 905 900 895 890 885 880 875

878.672

878.170

877.621

878.236

6:1

6:1

110+80.00

-L-

50 40 30 20 10 0 10 20 30 40 50

06-FEB-2001 15:58
d13gw26su U:\2001\2001B\J84+80-115.dgn
AT 0.9982283812

10/26/98

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	349 of 368

2.5 0 2.5 5

METRIC

50 40 30 20 10 0 10 20 30 40 50

895 890 885 880 875

SS. 892.302

150:1

6:1

875.535

0.0600

0.0600

6:1

876.634

876.634

SS. 877.432

Ditch Depth

Ditch Depth

SS. 877.558

0.0478

0.0478

6:1

876.519

877.545

877.545

MH+20.00

MH+00.00

06-FEB-2001 15:41
d13se26au
AT 0136E20.dgn

10/26/98

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2513A	350 of 368

50 40 30 20 10 0 10 20 30 40 50

905 905

900 900

895 895

890 890

885 885

880 880

875 875

1:50.0

874.792

875.949

0.0600

0.0600

6:1

3:1

874.230

875.189

876.644

SG. 876.01+

111+40.00

06-FEB-1998 15:42
C:\Projects\2513A\Roadway\Plan\2513A_PP_SHEET_050.dgn
dl3pw25cw, Default, 1, 1, 1.0000, 0.0000, 0.0000, 0

10-26-98

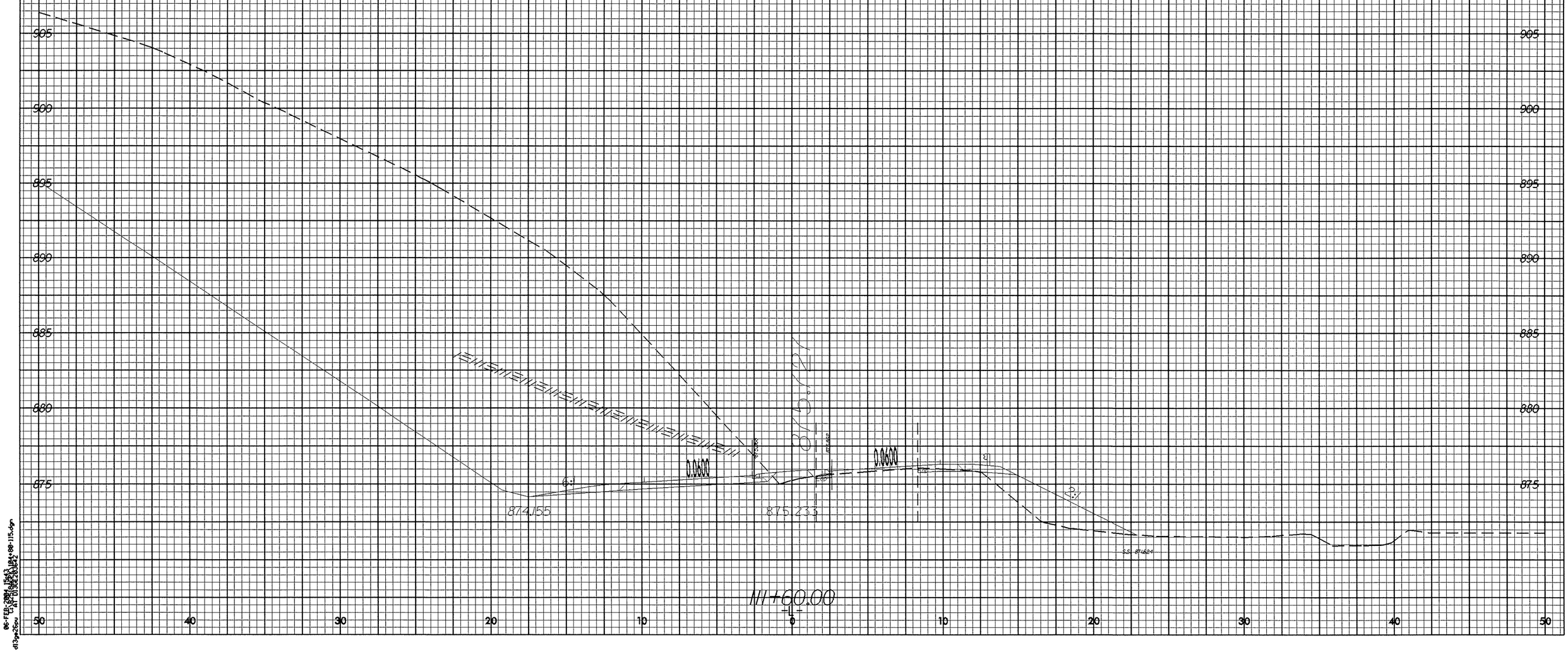
2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	331 of 368

50 40 30 20 10 0 10 20 30 40 50

915 910 905 900 895 890 885 880 875



06-FEB-2001 15:53
C:\projects\R2518A\dgn\R2518A_PLAN+PROF+SS-115.dgn
dl3qe2cou
AT 0138423842

10/26/98

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	352 of 368

50 40 30 20 10 0 10 20 30 40 50

915 910 905 900 895 890 885 880 875

111+80
35 M LT

40
1
6
8
15
16
39

SAPROLITE: ORNG/WHT MIC. CLAYEY SILT W/RK FRAGS

SAPROLITE: BRN/ORANGE MIC. SILTY SAND W/RK FRAGS

REC=26% RQD=0%
REC=5% RQD=0%
REC=21% RQD=0%
REC=37% RQD=0%
REC=21% RQD=0%
REC=16% RQD=0%
REC=55% RQD=0%
REC=13% RQD=0%
REC=79% RQD=0%

813624

6:1

874.989

Stop 885 spread to Slopestake

SS 875.63

111+80.00

06-FEB-2001 15:41
C:\projects\2518a\dgn\2518a1184+98-115.dgn
d13aw26cw

10/26/98

2.5	0	2.5	5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	353 & 368

50 40 30 20 10 0 10 20 30 40 50

885 880 875 870

SS 871.254

2:1

6:1

872.828

0.0500

EOD

874.113

874.400

0.0000

BOP

874.400

EOP

2:1

SS 873.681

112+20.00

900 895 890 885 880 875

2:1

6:1

871.199

0.0000

EOD

871.623

874.400

0.0000

BOP

874.400

EOP

2:1

SS 874.562

112+00.00

50 40 30 20 10 0 10 20 30 40 50

06-FEB-2001 15:55
User:cbrown
dl3gw26cu
$1 D:\$$$$2303\dgn\2303-084-08-115.dgn

10/26/98

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	354 of 368

2.5 0 2.5 5

METRIC

50 40 30 20 10 0 10 20 30 40 50

680 675 670 665

SS. 871.956

PROP. WALL

87.1861

6:1

0.0600

PROP. CL

87.456

87.253

87.459

0.0600

6:1

SS. 872.827

8.6.5.4.3.2.1

112+60.00

112+45

15 M LT

SS. 873.86

SS. 873.56

0.0600

0.0600

RDWY FILL:

BRN ORANGE MED. STIFF SANDY CLAY

ALLUVIUM:

GREY VERY LOOSE SANDY CLAY W COBBLES

SAPROLITE:

BRN. GREY. WHT. DENCE SILTY SAND

5 4 2 18 19

WEATHERED ROCK

112+40.00

06-FEB-2001 15:46
d13ea26cu

ARTBIS 8.2.1

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	355 of 368

2.5 0 2.5 5

METRIC

10/26/98

06-FEB-2001 15:47
d13gw26pw
C:\projects\2518a\dgn\2518a-115.dgn

50 40 30 20 10 0 10 20 30 40 50

880 875 870 865

SS. 871.064
4.92%
6:1
869.989
0.050'
871.474
0.050'
6:1
Ditch Depth
SS. 871.70
871.011

113+20.00

SS. 871.440
5.55%
6:1
870.580
0.0600'
871.376
0.0600'
6:1
SS. 871.41

113+00.00

112+70
17 M LT

SS. 872.018
5%
6:1
0.0600'
872.267
0.0600'
6:1
SS. 872.113

RDWY FILL:
BRN/ORNG SANDY CLAY

SAPROLITE:
GRAY/BRN/ORNG CLAYEY SAND

WEATHERED RK

ALLUVIUM: CLAYEY SAND

112+80.00

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	356 of 368

2.5 0 2.5 5

METRIC

50 40 30 20 10 0 10 20 30 40 50

880 875 870 865

S.S. 875.28

2:1

6:1

0.0166

5.00%

-5.00%

0.0166

6:1

2:1

868.857

869.303

868.452

Ditch Depth

S.S. 868.05

869.276

113+80.00

880 875 870

S.S. 875.02

2:1

6:1

0.0057

4.00%

-4.00%

0.0057

6:1

2:1

869.161

869.590

868.04

870.135

113+60.00

880 875 870

S.S. 874.98

2:1

6:1

0.0279

1.40%

-1.40%

0.0279

6:1

2:1

869.544

869.787

867.638

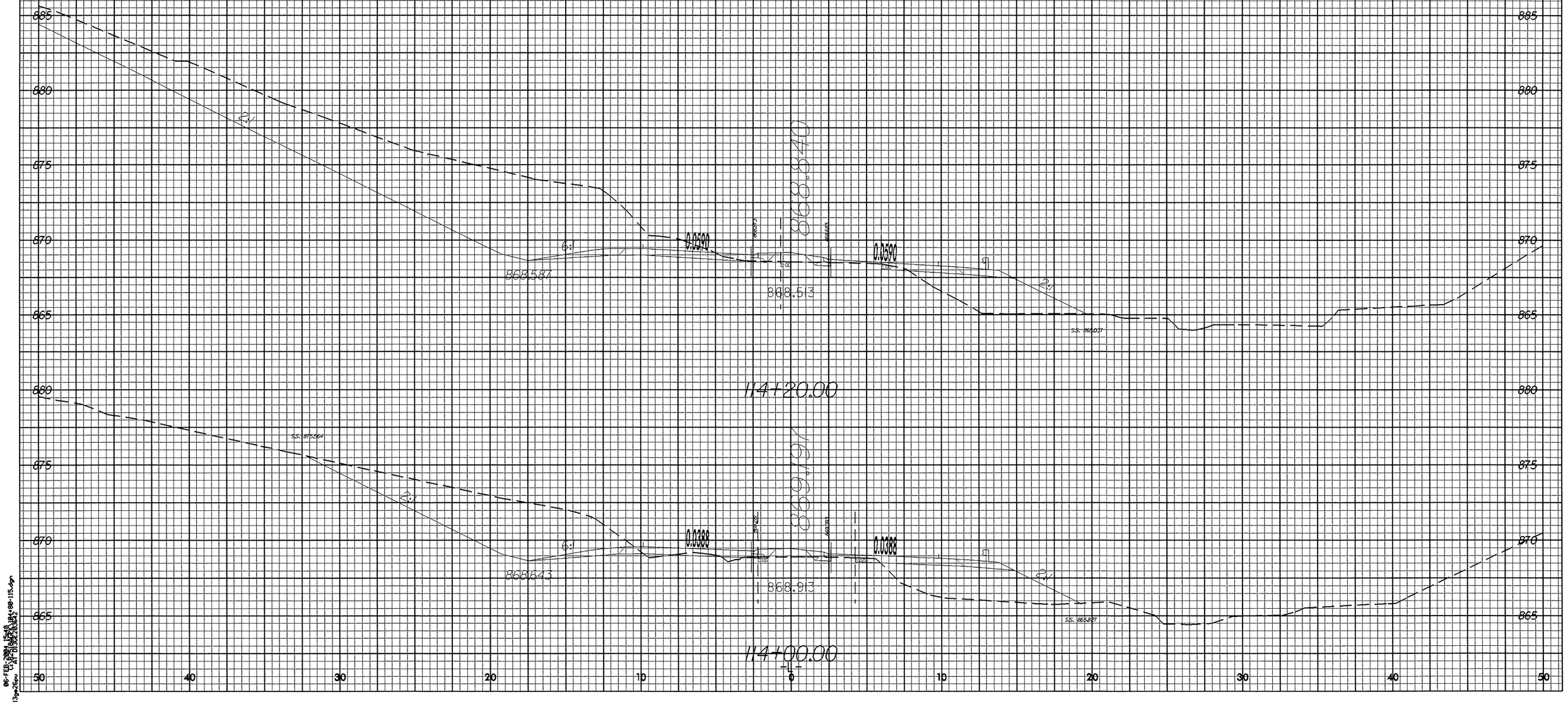
870.264

113+40.00

50 40 30 20 10 0 10 20 30 40 50

06-FEB-2004 15:47
d13gc26gu
C:\Projects\8823\1824\888-115.dgn

2.5 0 2.5 5



06-FEB-2004 14:48
d13gw26pw C:\projects\2518a\roadway\sht-115.dgn

12/26/98

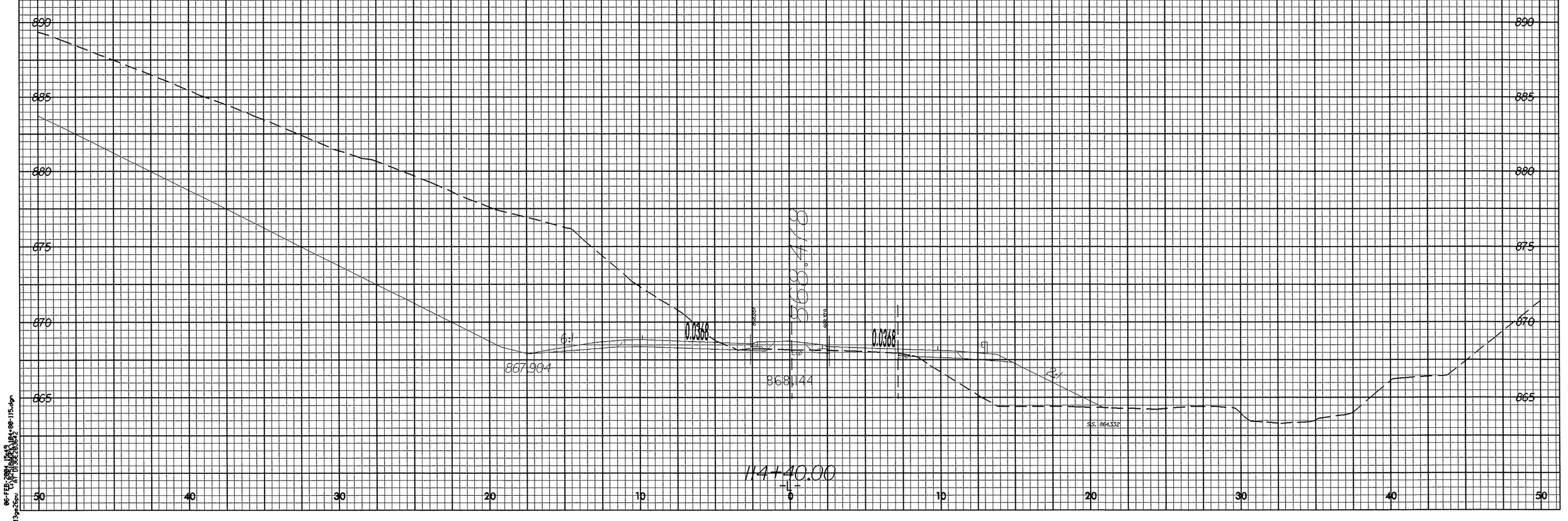
2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
K-2518A	358 of 368

50 40 30 20 10 0 10 20 30 40 50

905 900 895 890 885 880 875 870 865



95-FEB-2004 15:48
$USER
d:\pgs\25pw_01.dgn

2.5 0 2.5 5

METRIC

50 40 30 20 10 0 10 20 30 40 50

905 900 895 890 885 880 875 870 865

114+60
35 M LT

5
10
8
78
37

REC: 33%
REC: 48%
REC: 8%
REC: 8%
REC: 62%

6:1

867.304

0.0145

960.8838

867.6633

0.0200

2:1

114+60.00
-L-

96-FEB-2004 15:58
d13pw250u

PROJECT REFERENCE NO.	SHEET NO.
R-2513A	360 F 368

2.5 0 2.5 5

METRIC

50 40 30 20 10 0 10 20 30 40 50

875 870 865

SS. 870.90

2:1

6:1

866.163

868.239

868.227

868.839

3:1

SS. 866.311

115+00.00

890 885 880 875 870 865

2:1

6:1

0.0077

0.0200

866.686

867.279

2:1

SS. 864.567

114+80.00

50 40 30 20 10 0 10 20 30 40 50

06-FEB-2004 15:51
C:\Projects\2513A\Roadway\Profiles\2513A_PROF_115.dgn
d13se2cav

JJL

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS-MATERIALS AND TESTS UNIT
SOILS TEST REPORT-SOILS LABORATORY

T.I.P. ID #:	--

REPORT ON SAMPLES OF:	Soils for Classification

PROJECT:	6.869005T	COUNTY:	Madison	Owner:	--
DATE SAMPLED:	5-29-03	DATE RECEIVED:	6-13-03	DATE REPORTED:	6-17-03
SAMPLED FROM:	Roadway	SAMPLED BY:	J. C. Kuhne		
SUBMITTED BY:	W. D. Frye		2002	STANDARD SPECIFICATION	
LABORATORY:	Asheville				

TEST RESULTS

Project Sample No.	SS-22	SS-23	SS-24	SS-29	SS-30	SS-33A	SS-33B	SS-39
Lab Sample No. A	141831	141832	141833	141834	141835	141836	141837	141838
HiCAMS Sample #	--	--	--	--	--	--	--	--
Retained #4 Sieve %	--	--	--	--	--	--	--	--
Passing #10 Sieve %	100	93	96	75	100	86	89	72
Passing #40 Sieve %	87	86	88	67	83	74	79	65
Passing #200 Sieve %	52	74	54	41	45	50	45	39

MINUS #10 FRACTION

Soil Mortar - 100%								
Coarse Sand -Ret. #60	24	15	16	18	28	21	18	18
Fine Sand - Ret. #270	35	43	46	41	39	28	51	46
Silt 0.05-0.005 mm %	33	34	32	25	25	23	23	26
Clay < 0.005 mm %	8	8	6	16	8	28	8	10
Passing # 40 Sieve %	--	--	--	--	--	--	--	--
Passing # 200 Sieve %	--	--	--	--	--	--	--	--

Liquid Limit	34	32	33	33	30	49	37	25
Plastic Index	NP	NP	NP	NP	NP	16	NP	NP
AASHTO Classification	A-4 (3)	A-4 (8)	A-4 (4)	A-4 (1)	A-4 (2)	A-7-6 (6)	A-4 (2)	A-4 (1)
Quantity								
Texture								
Station	92+60 RT	92+60 RT	92+60 RT	92+70 RT	92+70 RT	95+80 RT	95+80 RT	95+80 RT
Hole No.								
Depth (ft) From:	1.7	1.52	4.27	1.34	2.87	1.94	2.02	10.64
To:	1.7	1.52	4.72	1.61	3.32	1.94	2.02	11.09

Remarks:

A-141831 – A-141839

CC:

W. D. Frye	
J. J. Lail	
File	

SOILS ENGINEER:	

JJL

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS-MATERIALS AND TESTS UNIT
SOILS TEST REPORT-SOILS LABORATORY

T.I.P. ID #:	--

REPORT ON SAMPLES OF:	Soils for Classification

PROJECT:	6.869005T	COUNTY:	Madison	Owner:	--
DATE SAMPLED:	5-29-03	DATE RECEIVED:	6-13-03	DATE REPORTED:	6-17-03
SAMPLED FROM:	Roadway	SAMPLED BY:	J. C. Kuhne		
SUBMITTED BY:	W. D. Frye		2002	STANDARD SPECIFICATION	
LABORATORY:	Asheville				

TEST RESULTS

Project Sample No.	SS-42							
Lab Sample No. A	141839							
HiCAMS Sample #	--							
Retained #4 Sieve %	--							
Passing #10 Sieve %	100							
Passing #40 Sieve %	93							
Passing #200 Sieve %	40							

MINUS #10 FRACTION

Soil Mortar - 100%								
Coarse Sand -Ret. #60	19							
Fine Sand - Ret. #270	61							
Silt 0.05-0.005 mm %	14							
Clay < 0.005 mm %	6							
Passing # 40 Sieve %	--							
Passing # 200 Sieve %	--							

Liquid Limit	20							
Plastic Index	NP							
AASHTO Classification	A-4 (1)							
Quantity								
Texture								
Station	97+30 RT							
Hole No.								
Depth (ft) From:	1.49							
To:	1.94							

Remarks:

A-141831 – A-141839

CC:

W. D. Frye	
J. J. Lail	
File	

SOILS ENGINEER:	

G:/Everyone. . . /M&T Forms/Regional Lab Statesville/Soils Test Report M&T 503E 8-19-2000

JJL

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS-MATERIALS AND TESTS UNIT
SOILS TEST REPORT-SOILS LABORATORY

T.I.P. ID #:	

REPORT ON SAMPLES OF:	Soils for Classification

PROJECT:	R-2518A	COUNTY:		Owner:	--
DATE SAMPLED:	6-2-03	DATE RECEIVED:	7-2-03	DATE REPORTED:	7-22-03
SAMPLED FROM:	Rdw – -L-	SAMPLED BY:	J C Kuhne		
SUBMITTED BY:	W D Frye	2002	STANDARD SPECIFICATION		
LABORATORY:	Asheville				

TEST RESULTS

Project Sample No.	SS-45	SS-48	SS-49	SS-51	SS-52	SS-53	SS-57	SS-60
Lab Sample No. A-	142082	142083	142084	142085	142086	142087	142088	142089
HiCAMS Sample #	--	--	--	--	--	--	--	--
Retained #4 Sieve %	--	--	--	--	--	--	--	--
Passing #10 Sieve %	64	61	76	91	93	90	89	88
Passing #40 Sieve %	49	51	55	79	75	72	77	71
Passing #200 Sieve %	29	33	26	36	38	37	33	53

MINUS #10 FRACTION

Soil Mortar - 100%								
Coarse Sand -Ret. #60	34	26	40	26	29	33	26	25
Fine Sand - Ret. #270	30	27	36	45	41	36	47	9
Silt 0.05-0.005 mm %	24	28	16	21	22	23	19	27
Clay < 0.005 mm %	12	19	8	8	8	8	8	39
Passing # 40 Sieve %	--	--	--	--	--	--	--	--
Passing # 200 Sieve %	--	--	--	--	--	--	--	--

Liquid Limit	29	30	32	31	35	38	25	58
Plastic Index	4	9	NP	NP	NP	NP	NP	27
AASHTO Classification	A-2-4 (0)	A-2-4 (0)	A-2-4 (0)	A-4 (0)	A-4 (1)	A-4 (0)	A-2-4 (0)	A-7-5 (12)
Quantity								
Texture								
Station	87+45	86+80	86+80	90+40	107+10	107+10	107+10	106+12
Hole No.								
Depth (m) From:	3.05	1.89	--	2.04	1.71	3.23	9.31	1.98
To:	3.50	2.34	--	2.49	2.17	3.69	9.77	2.44

Remarks:

A-142082 through A-142091

CC:

W D Frye	
J J Lail	
File	

SOILS ENGINEER:	

JJL

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS-MATERIALS AND TESTS UNIT
SOILS TEST REPORT-SOILS LABORATORY

T.I.P. ID #:	

REPORT ON SAMPLES OF:	Soils for Classification

PROJECT:	R-2518A	COUNTY:		Owner:	--
DATE SAMPLED:	6-29-03	DATE RECEIVED:	7-2-03	DATE REPORTED:	7-22-03
SAMPLED FROM:	Rdw – -L-	SAMPLED BY:	J C Kuhne		
SUBMITTED BY:	W D Frye	2002	STANDARD SPECIFICATION		
LABORATORY:	Asheville				

TEST RESULTS

Project Sample No.	SS-61	SS-62						
Lab Sample No. A-	142090	142091						
HiCAMS Sample #	--	--						
Retained #4 Sieve %	--	--						
Passing #10 Sieve %	74	97						
Passing #40 Sieve %	55	82						
Passing #200 Sieve %	33	49						

MINUS #10 FRACTION

Soil Mortar - 100%								
Coarse Sand -Ret. #60	36	27						
Fine Sand - Ret. #270	26	32						
Silt 0.05-0.005 mm %	26	31						
Clay < 0.005 mm %	12	10						
Passing # 40 Sieve %	--	--						
Passing # 200 Sieve %	--	--						

Liquid Limit	35	32						
Plastic Index	NP	NP						
AASHTO Classification	A-2-4 (0)	A-4 (3)						
Quantity								
Texture								
Station	106+12	106+12						
Hole No.								
Depth (m) From:	3.50	5.02						
To:	3.96	5.48						

Remarks:

A-142082 through A-142091

CC:

W D Frye	
J J Lail	
File	

SOILS ENGINEER:	

M&T 503E

JJL

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS-MATERIALS AND TESTS UNIT
SOILS TEST REPORT-SOILS LABORATORY

T.I.P. ID #:	R-2518A

REPORT ON SAMPLES OF:	Soil for Classification

PROJECT:	6.869005T	COUNTY:	--	Owner:	--
DATE SAMPLED:	7-10-03	DATE RECEIVED:	7-18-03	DATE REPORTED:	7-29-03
SAMPLED FROM:	Rdw	SAMPLED BY:	J C Kuhne		
SUBMITTED BY:	W D Frye	2002	STANDARD SPECIFICATION		
LABORATORY:	Asheville				

TEST RESULTS

Project Sample No.	SS-63	SS-64	SS-65	SS-66	SS-67	SS-68	SS-69	SS-70
Lab Sample No. A-	142250	142251	142252	142253	142254	142255	142256	142257
HiCAMS Sample #	--	--	--	--	--	--	--	--
Retained #4 Sieve %	--	--	--	--	-	--	--	--
Passing #10 Sieve %	100		100		100	100	80	99
Passing #40 Sieve %	90		85		95	94	58	80
Passing #200 Sieve %	54		54		55	67	20	44

MINUS #10 FRACTION

Soil Mortar - 100%								
Coarse Sand -Ret. #60	20		20		14	12	47	32
Fine Sand - Ret. #270	36		38		48	31	35	34
Silt 0.05-0.005 mm %	40		34		28	29	10	24
Clay < 0.005 mm %	4		8		10	28	8	10
Passing # 40 Sieve %	--		--		--	--	--	--
Passing # 200 Sieve %	--		--		--	--	--	--

Liquid Limit	25		29		35	37	22	30
Plastic Index	NP		NP		NP	10	NP	NP
AASHTO Classification	A-4 (4)		A-4 (4)		A-4 (4)	A-4 (7)	A-2-4 (0)	A-4 (2)
Quantity								
Texture								
Station	105+78 Rt		105+00 Rt		108+80 Rt	107+60 Rt	108+80	105+30 Lt
Hole No.								
Depth (m) From:	1.80		1.95		1.52	6.58	2.74	3.10
To:	2.26		2.41		1.98	7.04	3.20	3.56

Remarks:

Not enough material to properly test SS-64 and SS-66 A-142250 thru A-142258

CC:

W D Frye	
J J Lail	
File	

SOILS ENGINEER:	

M&T 503E

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NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS-MATERIALS AND TESTS UNIT
SOILS TEST REPORT-SOILS LABORATORY

T.I.P. ID #:	R-2518A

REPORT ON SAMPLES OF:	Soil for Classification

PROJECT:	6.869005T	COUNTY:	--	Owner:	--
DATE SAMPLED:	7-9-03	DATE RECEIVED:	7-18-03	DATE REPORTED:	7-29-03
SAMPLED FROM:	Rdw	SAMPLED BY:	J C Kuhne		
SUBMITTED BY:	W D Frye	2002	STANDARD SPECIFICATION		
LABORATORY:	Asheville				

TEST RESULTS

Project Sample No.	SS-71							
Lab Sample No.	A-142258							
HiCAMS Sample #	--							
Retained #4 Sieve %	--							
Passing #10 Sieve %	94							
Passing #40 Sieve %	78							
Passing #200 Sieve %	37							

MINUS #10 FRACTION

Soil Mortar - 100%								
Coarse Sand -Ret. #60	31							
Fine Sand - Ret. #270	39							
Silt 0.05-0.005 mm %	20							
Clay < 0.005 mm %	10							
Passing # 40 Sieve %	--							
Passing # 200 Sieve %	--							

Liquid Limit	27							
Plastic Index	NP							
AASHTO Classification	A-4 (1)							
Quantity								
Texture								
Station	105+30 Lt							
Hole No.								
Depth (m) From:	4.62							
To:	5.08							

Remarks:

A-142250 thru A-152258

CC:

W D Frye	
J J Lail	
File	

SOILS ENGINEER:	

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NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS-MATERIALS AND TESTS UNIT
SOILS TEST REPORT-SOILS LABORATORY

T.I.P. ID #:	R-2518A

REPORT ON SAMPLES OF:	Soil for Classification

PROJECT:	6.869005T	COUNTY:	--	Owner	--
DATE SAMPLED:	7-25-03	DATE RECEIVED:	7-31-03	DATE REPORTED:	8-18-03
SAMPLED FROM:	Rdwy	SAMPLED BY:	J C Kuhne		
SUBMITTED BY:	W D Frye	2002	STANDARD SPECIFICATION		
LABORATORY:	Asheville				

TEST RESULTS

Project Sample No.	SS-72	SS-73	SS-74	SS-75	SS-76	SS-77	SS-78	SS-79
Lab Sample No. A-	142417	142418	142419	142420	142421	142422	142423	142424
HiCAMS Sample #	--	--	--	--	--	--	--	--
Retained #4 Sieve %	--	--	--	--	--	--	--	--
Passing #10 Sieve %	77	99	99	100	100	99	98	100
Passing #40 Sieve %	64	84	82	88	92	77	81	91
Passing #200 Sieve %	40	45	47	47	56	39	43	47

MINUS #10 FRACTION

Soil Mortar - 100%								
Coarse Sand -Ret. #60	25	28	25	21	14	32	29	16
Fine Sand - Ret. #270	35	38	36	43	45	36	37	52
Silt 0.05-0.005 mm %	32	26	31	30	33	24	28	28
Clay < 0.005 mm %	8	8	8	6	8	8	6	4
Passing # 40 Sieve %	--	--	--	--	--	--	--	--
Passing # 200 Sieve %	--	--	--	--	--	--	--	--

Liquid Limit	26	37	37	36	48	26	33	41
Plastic Index	NP	NP	NP	NP	NP	NP	NP	NP
AASHTO Classification	A-4 (1)	A-4 (2)	A-4 (2)	A-4 (2)	A-5 (5)	A-4 (1)	A-4 (2)	A-5 (3)
Quantity								
Texture								
Station	11+00 Y-21	111+80 Lt	111+80 Lt	111+80 Lt	110+57 Lt	11+32 Y-21	11+32 CL	114+60 Lt
Hole No.								
Depth (m) From:	2.13	2.10	3.63	6.75	1.52	3.29	6.03	1.52
To:	2.58	2.55	7.08	7.20	1.98	3.74	6.78	1.98

Remarks:

A-142417 thru A-142430

CC:

W D Frye	
J J Lail	
File	

SOILS ENGINEER:	

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DIVISION OF HIGHWAYS-MATERIALS AND TESTS UNIT
SOILS TEST REPORT-SOILS LABORATORY

T.I.P. ID #:	R-2518A

REPORT ON SAMPLES OF:	Soil for Classification

PROJECT:	6.869005T	COUNTY:	--	Owner	--
DATE SAMPLED:	7-25-03	DATE RECEIVED:	7-31-03	DATE REPORTED:	8-18-03
SAMPLED FROM:	Rdwy	SAMPLED BY:	J C Kuhne		
SUBMITTED BY:	W D Frye	2002	STANDARD SPECIFICATION		
LABORATORY:	Asheville				

TEST RESULTS

Project Sample No.	SS-81	SS-82	SS-83	SS-84	SS-85	SS-86		
Lab Sample No. A-	142425	142426	142427	142428	142429	142430		
HiCAMS Sample #	--	--	--	--	--	--		
Retained #4 Sieve %	--	--	--	--	--	--		
Passing #10 Sieve %	77	96	98	99	98	100		
Passing #40 Sieve %	76	81	88	88	90	83		
Passing #200 Sieve %	49	53	55	55	47	41		

MINUS #10 FRACTION

Soil Mortar - 100%								
Coarse Sand -Ret. #60	28	24	19	16	19	31		
Fine Sand - Ret. #270	34	29	34	39	45	35		
Silt 0.05-0.005 mm %	32	27	27	29	32	24		
Clay < 0.005 mm %	6	20	20	16	4	10		
Passing # 40 Sieve %	--	--	--	--	--	--		
Passing # 200 Sieve %	--	--	--	--	--	--		

Liquid Limit	31	37	34	33	31	30		
Plastic Index	NP	9	8	8	NP	NP		
AASHTO Classification	A-4 (3)	A-4 (3)	A-4 (4)	A-4 (4)	A-4 (2)	A-4 (1)		
Quantity								
Texture								
Station	114+60 Lt	112+45 Lt	112+45 Lt	112+45 Lt	112+45 Lt	112+70 Lt		
Hole No.								
Depth (m) From:	7.62	3.04	4.56	6.10	7.62	4.56		
To:	8.08	3.49	5.01	6.55	8.08	5.01		

Remarks:

A-142417 thru A-142430

CC:

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J J Lail	
File	

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DIVISION OF HIGHWAYS-MATERIALS AND TESTS UNIT
SOILS TEST REPORT-SOILS LABORATORY

T.I.P. ID #:	R-2518A

REPORT ON SAMPLES OF:	Soil for Classification

PROJECT:	6.869005	COUNTY:	--	Owner:	--		
DATE SAMPLED:	7-8-03	DATE RECEIVED:	8-11-03	DATE REPORTED:	8-19-03		
SAMPLED FROM:	Rdw Elevation	SAMPLED BY:	D P Murphy				
SUBMITTED BY:	W D Frye	2002	STANDARD SPECIFICATION				
LABORATORY:	Asheville						

TEST RESULTS

Project Sample No.	SS-101	SS-102	SS-103	SS-104	SS-105	SS-106	SS-107	SS-108
Lab Sample No. A-	142587	142588	142589	142590	142591	142592	142593	142594
HiCAMS Sample #	--	--	--	--	--	--	--	--
Retained #4 Sieve %	--	--	--	--	--	--	--	--
Passing #10 Sieve %	97	99	86	90	95	99	99	100
Passing #40 Sieve %	76	67	44	65	82	96	93	95
Passing #200 Sieve %	56	33	23	52	46	70	60	56

MINUS #10 FRACTION

Soil Mortar - 100%								
Coarse Sand -Ret. #60	31	46	61	34	24	5	12	10
Fine Sand - Ret. #270	12	21	13	9	37	30	42	51
Silt 0.05-0.005 mm %	21	25	20	31	21	33	36	33
Clay < 0.005 mm %	36	8	6	26	18	32	10	6
Passing # 40 Sieve %	--	--	--	--	--	--	--	--
Passing # 200 Sieve %	--	--	--	--	-	--	--	--

Liquid Limit	45	33	39	35	32	54	39	48
Plastic Index	29	NP	NP	15	8	14	3	NP
AASHTO Classification	A-7-6 (12)	A-2-4 (0)	A-1-b (0)	A-6 (5)	A-4 (2)	A-7-5 (11)	A-4 (5)	A-5 (5)
Quantity								
Texture								
Station	80+00 Rt	80+00 Rt	78+40 Lt	75+80 Rt	74+80 Rt	73+80 Rt	73+80 Rt	73+80 Rt
Hole No.	-L-	-L-	-L-					-L-
Depth (m) From:	1.13	2.65	3.95	0.97	1.00	0.94	3.98	7.02
To:	1.58	3.10	4.40	1.42	1.45	1.39	4.43	7.43

Remarks:

A-142587 thru A-142606

CC:

W D Frye	
J J Lail	
File	

SOILS ENGINEER:	

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NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS-MATERIALS AND TESTS UNIT
SOILS TEST REPORT-SOILS LABORATORY

T.I.P. ID #:	R-2518A

REPORT ON SAMPLES OF:	Soil for Classification

PROJECT:	6.869005	COUNTY:	--	Owner:	--		
DATE SAMPLED:	7-8-03	DATE RECEIVED:	8-11-03	DATE REPORTED:	8-19-03		
SAMPLED FROM:	Rdw Elevation	SAMPLED BY:	D P Murphy				
SUBMITTED BY:	W D Frye	2002	STANDARD SPECIFICATION				
LABORATORY:	Asheville						

TEST RESULTS

Project Sample No.	SS-109	SS-110	SS-111	SS-112	SS-113	SS-114	SS-115	SS-116
Lab Sample No. A-	142595	142596	142597	142598	142599	142600	142601	142602
HiCAMS Sample #	--	--	--	--	--	--	--	--
Retained #4 Sieve %	--	--	--	--	--	--	--	--
Passing #10 Sieve %	96	100	95	100	99	91	98	91
Passing #40 Sieve %	91	91	84	97	90	72	85	75
Passing #200 Sieve %	55	54	40	57	43	34	40	42

MINUS #10 FRACTION

Soil Mortar - 100%								
Coarse Sand -Ret. #60	15	18	22	9	21	36	24	27
Fine Sand - Ret. #270	35	44	46	55	47	35	45	37
Silt 0.05-0.005 mm %	16	32	18	24	26	19	23	24
Clay < 0.005 mm %	34	6	14	12	6	10	8	12
Passing # 40 Sieve %	--	--	--	--	--	--	--	--
Passing # 200 Sieve %	--	--	--	--	-	--	--	--

Liquid Limit	47	38	32	43	36	33	29	33
Plastic Index	19	NP	NP	NP	NP	6	NP	NP
AASHTO Classification	A-7-6 (8)	A-4 (4)	A-4 (1)	A-5 (5)	A-4 (2)	A-2-4 (0)	A-4 (1)	A-4 (1)
Quantity								
Texture								
Station	75+40 Rt	70+80 Rt	69+80 Rt	68+60 Rt	67+80 Rt	67+80 Rt	67+20 kRt	67+20 Rt
Hole No.	-L-	-L-	-L-	-L-	-L-	-L-	-L-	-L-
Depth (m) From:	1.13	2.65	3.95	0.97	1.00	0.94	3.98	7.02
To:	1.58	3.10	4.40	1.42	1.45	1.39	4.43	7.43

Remarks:

A-142587 thru A-142606

CC:

W D Frye	
J J Lail	
File	

SOILS ENGINEER:	

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NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS-MATERIALS AND TESTS UNIT
SOILS TEST REPORT-SOILS LABORATORY

T.I.P. ID #:	R-2518A

REPORT ON SAMPLES OF:	Soil for Classification

PROJECT:	6.869005	COUNTY:	--	Owner:	--		
DATE SAMPLED:	7-8-03	DATE RECEIVED:	8-11-03	DATE REPORTED:	8-19-03		
SAMPLED FROM:	Rdw Elevation	SAMPLED BY:	D P Murphy				
SUBMITTED BY:	W D Frye	2002	STANDARD SPECIFICATION				
LABORATORY:	Asheville						

TEST RESULTS

Project Sample No.	SS-117	SS-118	SS-119	SS-120				
Lab Sample No. A-	142603	142604	142605	142606				
HiCAMS Sample #	--	--	--	--				
Retained #4 Sieve %	--	--	--	--				
Passing #10 Sieve %	100	76	94	84				
Passing #40 Sieve %	99	57	81	70				
Passing #200 Sieve %	75	31	43	44				

MINUS #10 FRACTION

Soil Mortar - 100%								
Coarse Sand -Ret. #60	2	37	24	25				
Fine Sand - Ret. #270	41	29	39	30				
Silt 0.05-0.005 mm %	35	20	21	23				
Clay < 0.005 mm %	22	14	16	22				
Passing # 40 Sieve %	--	--	--	--				
Passing # 200 Sieve %	--	--	--	--				
Liquid Limit	50	31	31	36				
Plastic Index	12	10	9	12				
AASHTO Classification	A-7-5 (11)	A-2-4 (0)	A-4 (2)	A-6 (2)				
Quantity								
Texture								
Station	66+20 Rt	64+50 Rt	60+60 Lt	61+20 Rt				
Hole No.	-L-	-L-	-L-	-L-				
Depth (m) From:	1.00	5.29	2.57	2.63				
To:	1.45	5.74	3.02	3.10				

Remarks:

A-142587 thru A-142606

CC:

W D Frye	
J J Lail	
File	

SOILS ENGINEER:	

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NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS-MATERIALS AND TESTS UNIT
SOILS TEST REPORT-SOILS LABORATORY

T.I.P. ID #:	

REPORT ON SAMPLES OF:	Soil for Classification

PROJECT:	6.869005	COUNTY:	Madison	Owner:	--		
DATE SAMPLED:	8-4-03	DATE RECEIVED:	8-25-03	DATE REPORTED:	9-3-03		
SAMPLED FROM:	Rdwy - CL	SAMPLED BY:	D P Murphy				
SUBMITTED BY:	W D Frye	2002	STANDARD SPECIFICATION				
LABORATORY:	Asheville						

TEST RESULTS

Project Sample No.	SS-121	SS-122	SS-123	SS-124	SS-125	SS-126	SS-127	SS-128
Lab Sample No. A-	142841	142842	142843	142844	142845	142846	142847	142848
HiCAMS Sample #	--	--	--	--	--	--	--	--
Retained #4 Sieve %	--	--	--	--	--	--	--	--
Passing #10 Sieve %	65	81	86	99	98	98	96	87
Passing #40 Sieve %	46	66	59	74	91	76	65	72
Passing #200 Sieve %	29	40	28	49	61	52	42	43

MINUS #10 FRACTION

Soil Mortar - 100%								
Coarse Sand -Ret. #60	38	25	43	35	14	30	38	23
Fine Sand - Ret. #270	27	31	32	21	40	23	24	42
Silt 0.05-0.005 mm %	29	24	19	22	34	21	28	31
Clay < 0.005 mm %	6	20	6	22	12	26	10	4
Passing # 40 Sieve %	--	--	--	--	--	--	--	--
Passing # 200 Sieve %	--	--	--	--	--	--	--	--
Liquid Limit	31	31	26	48	41	46	32	23
Plastic Index	NP	9	NP	13	NP	12	NP	NP
AASHTO Classification	A-2-4 (0)	A-4 (1)	A-2-4 (0)	A-7-5 (5)	A-5 (5)	A-7-5 (5)	A-4 (1)	A-4 (1)
Quantity								
Texture								
Station	59+00 Rt	55+60 Rt	54+60 Lt	52+40 Rt	52+40 Rt	53+00 Rt	53+00 Rt	49+00 Rt
Hole No.								
Depth (m) From:	2.47	1.00	4.19	0.90	2.42	0.91	3.95	2.56
To:	2.92	1.45	4.65	1.35	2.97	1.37	4.40	3.01

Remarks:

A-142841 thru A-142850

CC:

W D Frye	
J J Lail	
File	

SOILS ENGINEER:	

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NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS-MATERIALS AND TESTS UNIT
SOILS TEST REPORT-SOILS LABORATORY

T.I.P. ID #:	

REPORT ON SAMPLES OF:	Soil for Classification

PROJECT:	6.869005	COUNTY:	Madison	Owner:	--
DATE SAMPLED:	8-20-03	DATE RECEIVED:	8-25-03	DATE REPORTED:	9-3-03
SAMPLED FROM:	Rdwy - CL	SAMPLED BY:	D P Murphy		
SUBMITTED BY:	W D Frye		2002	STANDARD SPECIFICATION	
LABORATORY:	Asheville				

TEST RESULTS

Project Sample No.	SS-129	SS-130						
Lab Sample No. A-	142849	142850						
HiCAMS Sample #	--	--						
Retained #4 Sieve %	--	--						
Passing #10 Sieve %	99	78						
Passing #40 Sieve %	92	61						
Passing #200 Sieve %	30	37						

MINUS #10 FRACTION

Soil Mortar - 100%								
Coarse Sand -Ret. #60	17	30						
Fine Sand - Ret. #270	64	29						
Silt 0.05-0.005 mm %	15	23						
Clay < 0.005 mm %	4	18						
Passing # 40 Sieve %	--	--						
Passing # 200 Sieve %	--	--						
Liquid Limit	32	27						
Plastic Index	NP	4						
AASHTO Classification	A-2-4 (0)	A-4 (0)						
Quantity								
Texture								
Station	45+50 Rt	44+40 Rt						
Hole No.								
Depth (m) From:	2.45	2.79						
To:	2.90	3.24						

Remarks:

A-142841 thru A-142850

CC:

W D Frye	
J J Lail	
File	

SOILS ENGINEER:	

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DIVISION OF HIGHWAYS-MATERIALS AND TESTS UNIT
SOILS TEST REPORT-SOILS LABORATORY

T.I.P. ID #:	R-2518A

REPORT ON SAMPLES OF:	Soil for Classification

PROJECT:	6.869005	COUNTY:	--	Owner:	--
DATE SAMPLED:	9-3-03	DATE RECEIVED:	9-25-03	DATE REPORTED:	9-30-03
SAMPLED FROM:	Rdw Elevation –L-	SAMPLED BY:	D P Murphy		
SUBMITTED BY:	W D Frye		2002	STANDARD SPECIFICATION	
LABORATORY:	Asheville				

TEST RESULTS

Project Sample No.	SS-131	SS-132	SS-133	SS-134	SS-135	SS-136	SS-137	SS-138
Lab Sample No. A-	143248	143249	143250	143251	143252	143253	143254	143255
HiCAMS Sample #	--	--	--	--	--	--	--	--
Retained #4 Sieve %	--	--	--	--	--	--	--	--
Passing #10 Sieve %	99	94	99	98	93	100	88	65
Passing #40 Sieve %	83	89	96	86	86	95	71	52
Passing #200 Sieve %	47	53	59	49	54	50	36	29

MINUS #10 FRACTION

Soil Mortar - 100%								
Coarse Sand -Ret. #60	28	11	8	25	15	13	29	33
Fine Sand - Ret. #270	32	42	41	37	36	49	41	29
Silt 0.05-0.005 mm %	30	33	23	30	23	24	24	24
Clay < 0.005 mm %	10	14	28	8	26	14	6	14
Passing # 40 Sieve %	--	--	--	--	--	--	--	--
Passing # 200 Sieve %	--	--	--	--	--	--	--	--

Liquid Limit	33	40	34	44	43	46	30	31
Plastic Index	4	12	12	NP	9	9	NP	9
AASHTO Classification	A-4 (2)	A-6 (5)	A-6 (6)	A-5 (3)	A-5 (4)	A-5 (3)	A-4 (0)	A-2-4 (0)
Quantity								
Texture								
Station	41+40 Lt	41+40 Lt	39+00 Lt	54+20 Rt	35+80 Lt	35+60 Rt	44+00 Lt	43+00 Lt
Hole No.								
Depth (m) From:	1.10	2.62	0.98	2.62	1.05	2.69	8.57	0.97
To:	1.55	3.07	1.43	3.10	1.50	3.14	9.02	1.42

Remarks:

CC:

W D Frye	
J J Lail	
File	

SOILS ENGINEER:	

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DIVISION OF HIGHWAYS-MATERIALS AND TESTS UNIT
SOILS TEST REPORT-SOILS LABORATORY

T.I.P. ID #:	R2518A

REPORT ON SAMPLES OF:	Soil for Classification

PROJECT:	6.869005	COUNTY:	--	Owner:	--		
DATE SAMPLED:	10-7-03	DATE RECEIVED:	10-28-03	DATE REPORTED:	11-18-03		
SAMPLED FROM:	Rdw –L-	SAMPLED BY:	D Murphy				
SUBMITTED BY:	W D Frye	2002	STANDARD SPECIFICATION				
LABORATORY:	Assheville						

TEST RESULTS

Project Sample No.	SS-139	SS-140	SS-141	SS-142	SS-143	SS-144	SS-145	SS-146
Lab Sample No. A-	143616	143617	143618	143619	143620	143621	143622	143623
HiCAMS Sample #	--	--	--	--	--	--	--	--
Retained #4 Sieve %	--	--	--	--	--	--	--	--
Passing #10 Sieve %	99	100	96	98	94	94	98	100
Passing #40 Sieve %	88	93	81	84	82	83	92	88
Passing #200 Sieve %	49	63	47	50	53	62	74	46

MINUS #10 FRACTION

Soil Mortar - 100%								
Coarse Sand -Ret. #60	19	13	25	22	18	18	11	22
Fine Sand - Ret. #270	50	35	38	40	45	21	19	48
Silt 0.05-0.005 mm %	25	34	27	26	29	23	30	24
Clay < 0.005 mm %	6	18	10	12	8	38	40	6
Passing # 40 Sieve %	--	--	--	--	--	--	--	--
Passing # 200 Sieve %	--	--	--	--	--	--	--	--

Liquid Limit	33	43	33	49	45	46	50	45
Plastic Index	NP	10	NP	NP	NP	16	24	NP
AASHTO Classification	A-4 (3)	A-5 (6)	A-4 (2)	A-5 (4)	A-5 (4)	A-7-5 (8)	A-7-6 (15)	A-5 (2)
Quantity								
Texture								
Station	20+85 Rt	18+00 Lt	18+00 Rt	16+40 Lt	16+40 Lt	15+40 CL	14+00 Lt	13+60 Lt
Hole No.								
Depth (m) From:	4.19	8.73	0.91	2.71	8.79	5.50	0.94	5.63
To:	4.49	9.18	1.36	3.16	9.24	5.95	1.39	6.02

Remarks:

A-143616 thru A-143627

CC:

W D Frye	
J J Lail	
File	

SOILS ENGINEER:	

JJL

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS-MATERIALS AND TESTS UNIT
SOILS TEST REPORT-SOILS LABORATORY

T.I.P. ID #:	R2518A

REPORT ON SAMPLES OF:	Soil for Classification

PROJECT:	6.869005	COUNTY:	--	Owner:	--		
DATE SAMPLED:	10-7-03	DATE RECEIVED:	10-28-03	DATE REPORTED:	11-18-03		
SAMPLED FROM:	Rdw –L-	SAMPLED BY:	D Murphy				
SUBMITTED BY:	W D Frye	2002	STANDARD SPECIFICATION				
LABORATORY:	Assheville						

TEST RESULTS

Project Sample No.	SS-147	SS-148	SS-149	SS-150				
Lab Sample No. A-	143624	143625	143626	143627				
HiCAMS Sample #	--	--	--	--				
Retained #4 Sieve %	--	--	--	--				
Passing #10 Sieve %	100	93	99	95				
Passing #40 Sieve %	97	80	91	78				
Passing #200 Sieve %	67	50	61	46				

MINUS #10 FRACTION

Soil Mortar - 100%								
Coarse Sand -Ret. #60	10	19	14	27				
Fine Sand - Ret. #270	39	42	38	35				
Silt 0.05-0.005 mm %	43	27	32	26				
Clay < 0.005 mm %	8	12	16	12				
Passing # 40 Sieve %	--	--	--	--				
Passing # 200 Sieve %	--	--	--	--				
Liquid Limit	42	53	47	28				
Plastic Index	NP	NP	NP	NP				
AASHTO Classification	A-5 (7)	A-5 (4)	A-5 (6)	A-4 (2)				
Quantity								
Texture								
Station	13+60 Lt	13+70 Rt	13+00 Rt	13+00 Rt				
Hole No.								
Depth (m) From:	10.19	7.41	4.04	25.32				
To:	10.64	8.86	4.49	25.77				

Remarks:

A-143616 thru A-143627

CC: D Frye
J J Lail
File

SOILS ENGINEER:	

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