Appendix A

Figure A-1a Project Location Map
Figure A-1b Boring Location Composite Plan

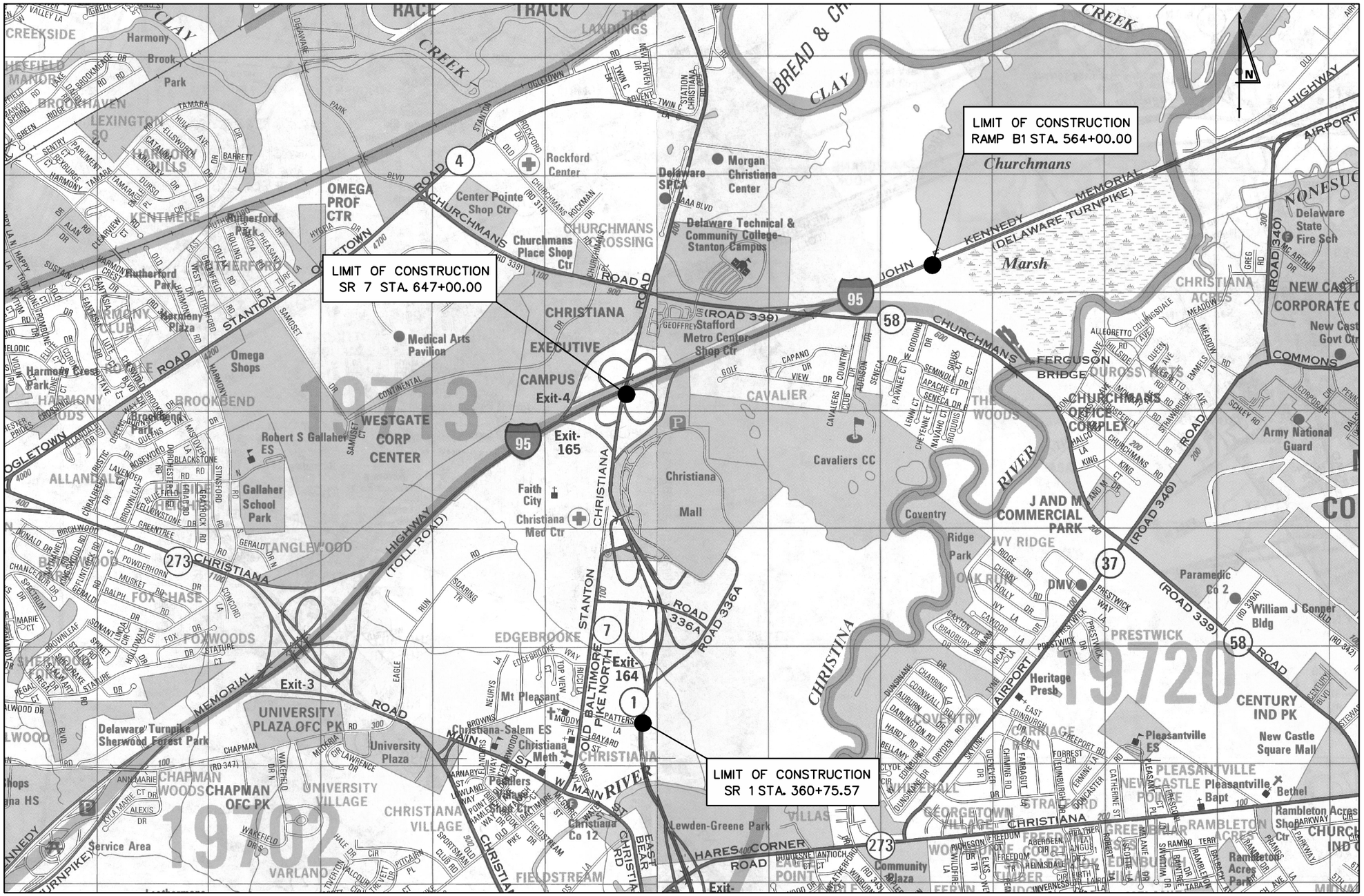
Figure A-2a through A-2q Boring Location Plan

Figure A-3a Soil Profile – Retaining Wall RW1
Figure A-3b Soil Profile – Retaining Wall RW2
Figure A-3c Soil Profile – Retaining Wall RW3

Figure A-4a Soil Profile – Retaining Wall 4
Figure A-4b Soil Profile – Retaining Wall 5
Figure A-4c Soil Profile – Retaining Wall 6 and 16
Figure A-4d Soil Profile – Retaining Wall 7
Figure A-4e Soil Profile – Retaining Wall 8
Figure A-4f Soil Profile – Retaining Wall 7 and 8
Figure A-4g Soil Profile – Retaining Wall 9
Figure A-4h Soil Profile – Retaining Wall 10
Figure A-4i Soil Profile – Retaining Wall 12 and 13
Figure A-4j Soil Profile – Retaining Wall 12 and 13 STA 1224+00
Figure A-4k Soil Profile – Retaining Wall 14 and 15

Appendix A
(Continued)

Figure A-5a Typical Cross Section – Retaining Wall 4
Figure A-5b Typical Cross Section – Retaining Wall 5
Figure A-5c Typical Cross Section – Retaining Wall 6
Figure A-5d Typical Cross Section – Retaining Wall 7
Figure A-5e Typical Cross Section – Retaining Wall 8
Figure A-5f Typical Cross Section – Retaining Wall 9
Figure A-5g Typical Cross Section – Retaining Wall 10
Figure A-5h Typical Cross Section – Retaining Wall 11
Figure A-5i Typical Cross Section – Retaining Walls 12 & 13
Figure A-5j Typical Cross Section – Retaining Walls 14 & 15
Figure A-5k Typical Cross Section – Retaining Wall 16



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BALTIMORE, MARYLAND

I-95 / SR-1 INTERCHANGE
PROJECT LOCATION MAP

FIGURE NO. A-1a

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KDT	EMK	NOT TO SCALE	FEBRUARY 2009	103-059-27U

2/2/2009
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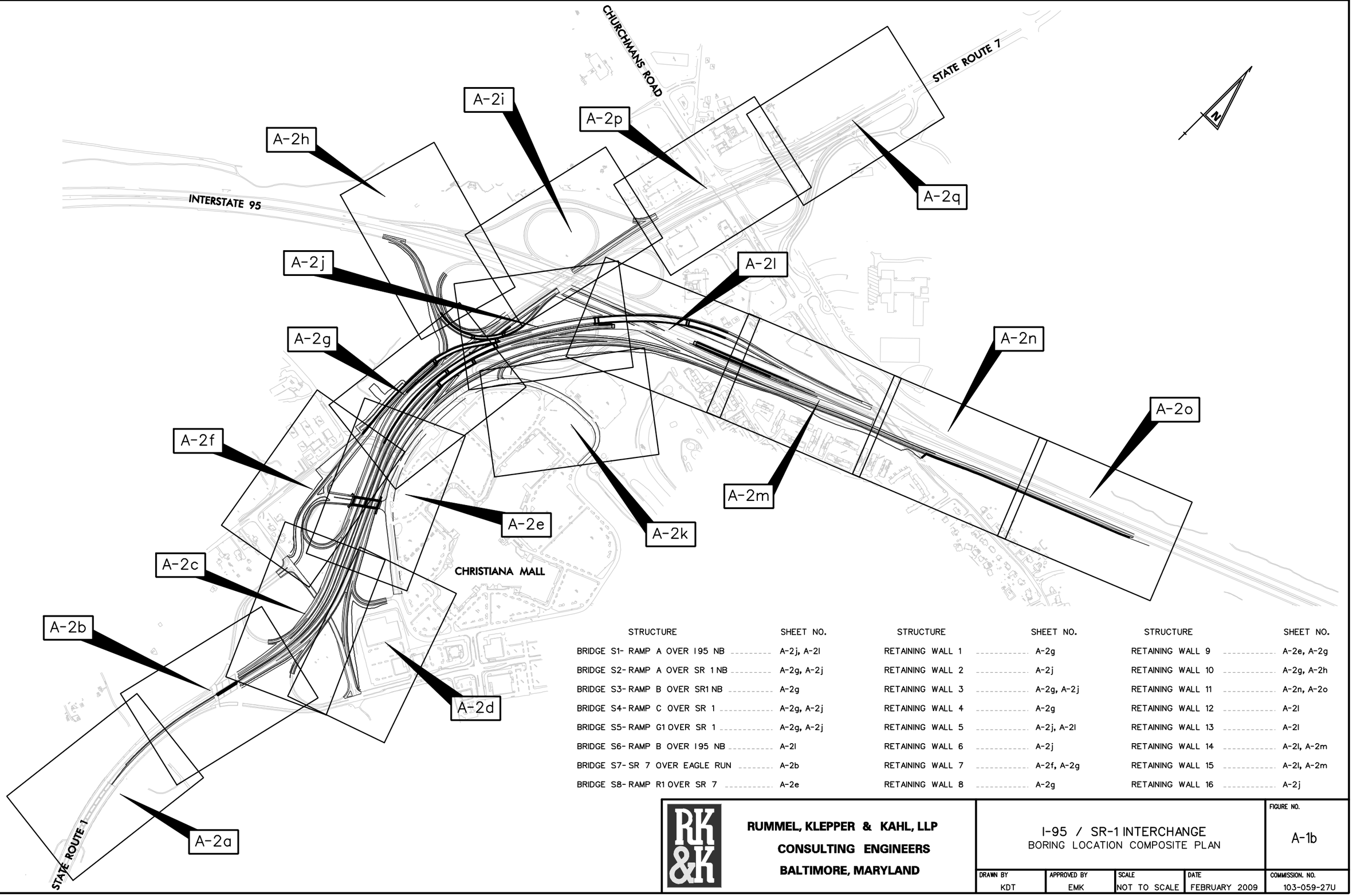

STRUCTURE	SHEET NO.	STRUCTURE	SHEET NO.	STRUCTURE	SHEET NO.
BRIDGE S1- RAMP A OVER I95 NB	A-2j, A-2l	RETAINING WALL 1	A-2g	RETAINING WALL 9	A-2e, A-2g
BRIDGE S2- RAMP A OVER SR 1 NB	A-2g, A-2j	RETAINING WALL 2	A-2j	RETAINING WALL 10	A-2g, A-2h
BRIDGE S3- RAMP B OVER SR1 NB	A-2g	RETAINING WALL 3	A-2g, A-2j	RETAINING WALL 11	A-2n, A-2o
BRIDGE S4- RAMP C OVER SR 1	A-2g, A-2j	RETAINING WALL 4	A-2g	RETAINING WALL 12	A-2l
BRIDGE S5- RAMP G1 OVER SR 1	A-2g, A-2j	RETAINING WALL 5	A-2j, A-2l	RETAINING WALL 13	A-2l
BRIDGE S6- RAMP B OVER I95 NB	A-2l	RETAINING WALL 6	A-2j	RETAINING WALL 14	A-2l, A-2m
BRIDGE S7- SR 7 OVER EAGLE RUN	A-2b	RETAINING WALL 7	A-2f, A-2g	RETAINING WALL 15	A-2l, A-2m
BRIDGE S8- RAMP R1 OVER SR 7	A-2e	RETAINING WALL 8	A-2g	RETAINING WALL 16	A-2j

RK&K

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I-95 / SR-1 INTERCHANGE
BORING LOCATION COMPOSITE PLAN

FIGURE NO. A-1b

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pcf: 03059_SRMALL

EXIST. R/W

SB SR 1

NB SR 1

℄ CONSTRUCTION SR 1

ISC-01

ISC-02

ISC-03

354+00 355+00 356+00 357+00 358+00 359+00 360+00 361+00 362+00 363+00 364+00 365+00 366+00 367+00

MATCH LINE SR 1 STA. 368+00, SEE FIGURE A-2b

EXIST. R/W

PC 354+61.69

DENSEBRUSH

DENSE TREES

BRUSH

OBSCURED BY TREES

DOT-E-DUCT

J.W.

15" RCP

18" CMP

18" DOWNSPOUT

FOOT BRIDGE

STATE ROUTE 1 SBL

STATE ROUTE 1 NBL

LEGEND

ISC-XX	SPT BORING LOCATION
IEB-XX	SUPPLEMENTAL SUBSURFACE EXPLORATION
99-B-XX /H-X	HISTORIC BORING LOCATION
ITP-XX	TESTPIT LOCATIONS
ICPT-XX	CPT PROBES
IDX-XX	DMT PROBES
IBR-XX (WELL)	WELL LOCATION

GRAPHIC SCALE

0 100 200

SCALE: 1"=100'

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I-95 / SR-1 INTERCHANGE

BORING LOCATION PLAN

FIGURE NO. A-2a

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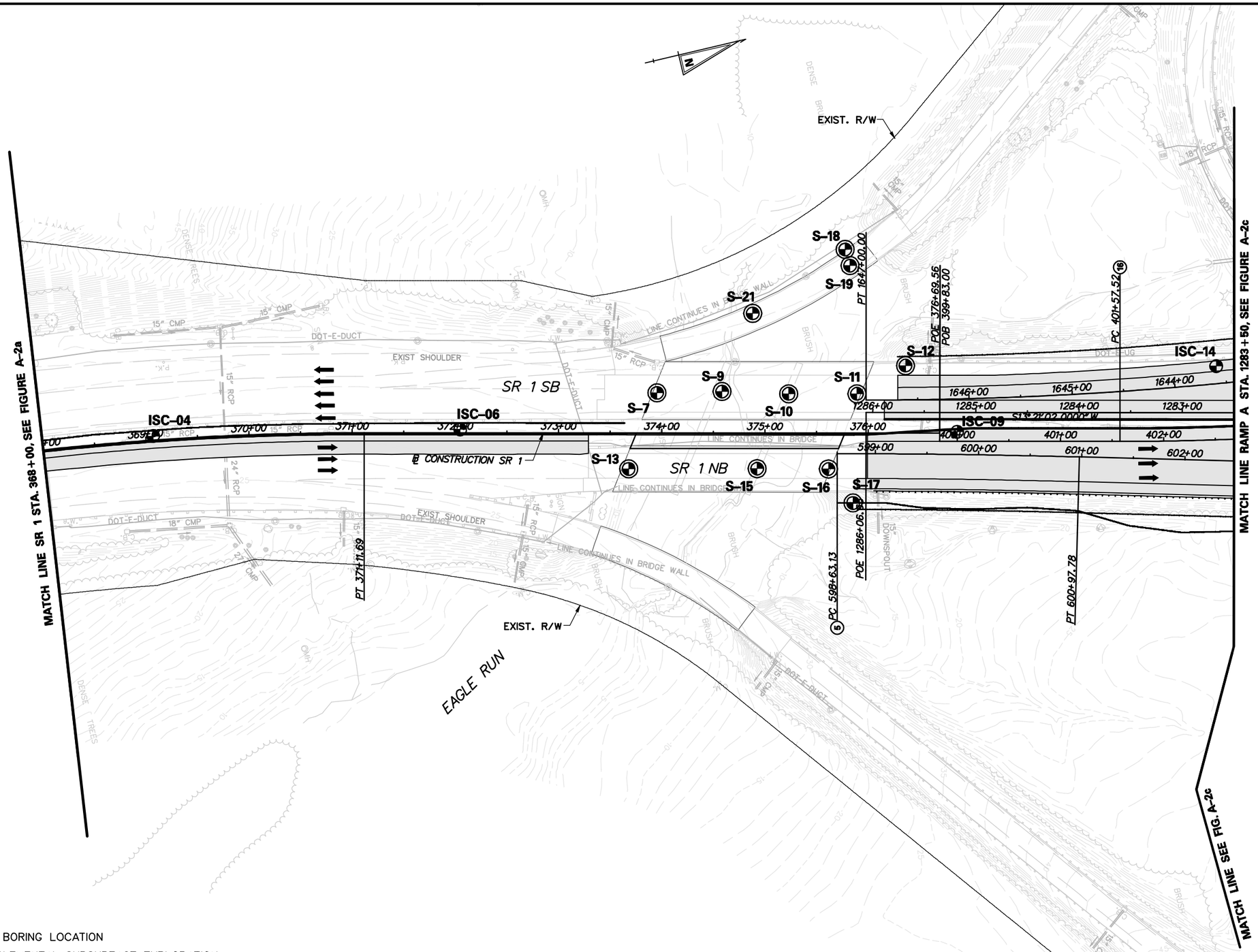

LEGEND

ISC-XX	SPT BORING LOCATION
IEB-XX	SUPPLEMENTAL SUBSURFACE EXPLORATION
99-B-XX /H-X	HISTORIC BORING LOCATION
ITP-XX	TESTPIT LOCATIONS
ICPT-XX	CPT PROBES
IDX-XX	DMT PROBES
IBR-XX (WELL)	WELL LOCATION

GRAPHIC SCALE
0 100 200
SCALE: 1"=100'

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I-95 / SR-1 INTERCHANGE
BORING LOCATION PLAN

FIGURE NO. A-2b

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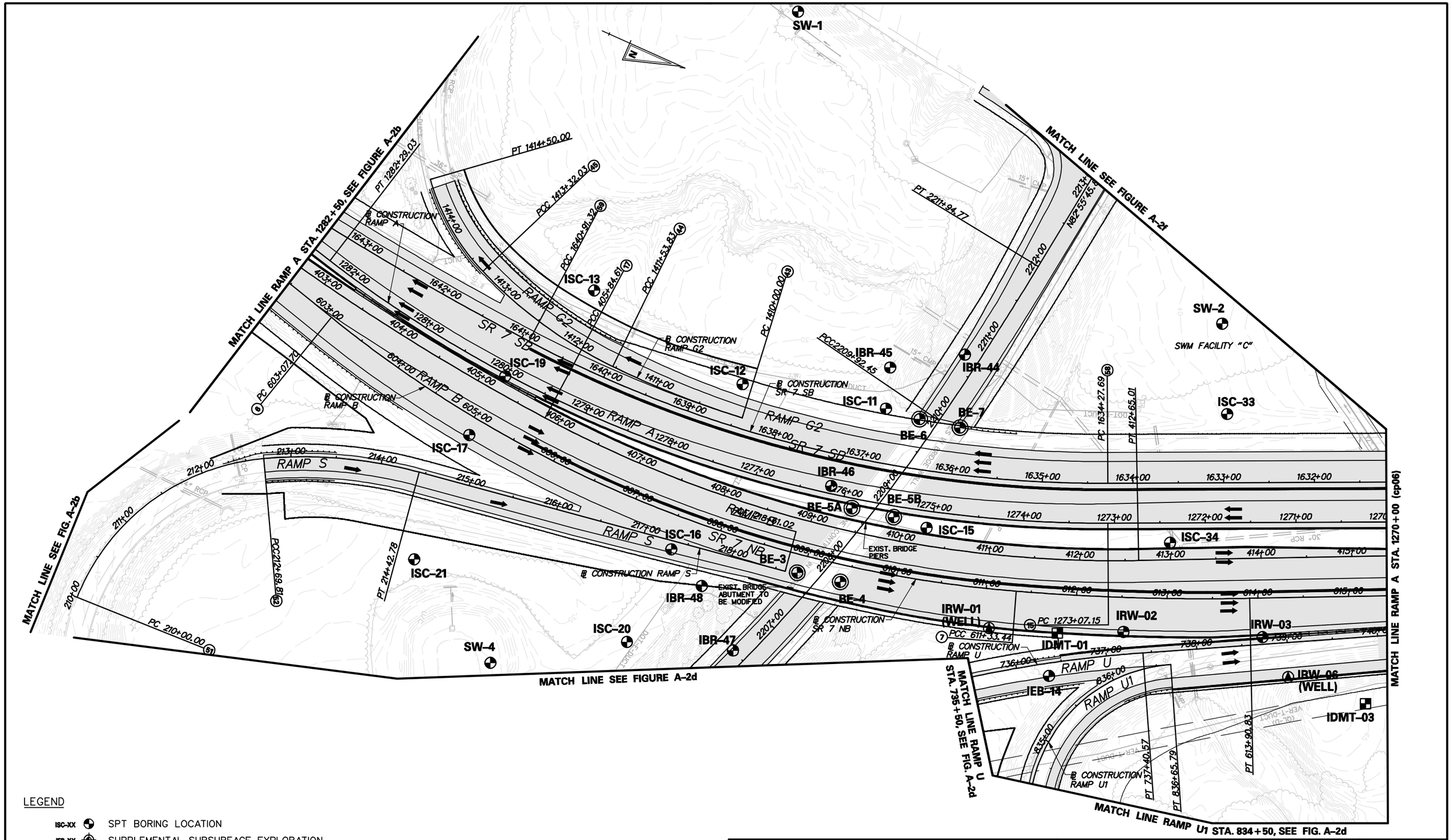

LEGEND

ISC-XX	SPT BORING LOCATION
IEB-XX	SUPPLEMENTAL SUBSURFACE EXPLORATION
99-B-XX /H-X	HISTORIC BORING LOCATION
ITP-XX	TESTPIT LOCATIONS
ICPT-XX	CPT PROBES
IDX-XX	DMT PROBES
IBR-XX (WELL)	WELL LOCATION

GRAPHIC SCALE

0 100 200

SCALE: 1"=100'

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I-95 / SR-1 INTERCHANGE
BORING LOCATION PLAN

FIGURE NO. A-2c

DRAWN BY	APPROVED BY	SCALE	DATE	COMMISSION. NO.
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2/5/2009
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pcf: 03059_SRMALL

MATCH LINE SEE FIGURE A-2c

MATCH LINE RAMP U STA. 735+50, SEE FIGURE A-2c

MATCH LINE RAMP U1 STA. 834+50, SEE FIG. A-2c

MATCH LINE MALL RING ROAD STA. 37+00, SEE FIG. A-2e

ISC-24

SW-3

ISC-23

ISC-24A

IEB-01

IEB-02 (WELL)

IEB-03

IEB-04

PC 2203+75.89

PCC2206+06.39

RAMP U

RAMP U1

PC 833+12.18

PC 729+70.08

POB 2200+00.00

POB 726+90.00

POB 830+60.00

N59°45'27.1119"W

IEB SHOULDER

20' EX. PERMANENT UTILITY CORRIDOR

EXIST. R/W

℄ CONSTRUCTION RAMP U

℄ CONSTRUCTION RAMP U1

MALL RING ROAD

℄ CONSTRUCTION MALL RING ROAD

ASPHALT PARKING

LEGEND

ISC-XX	SPT BORING LOCATION
IEB-XX	SUPPLEMENTAL SUBSURFACE EXPLORATION
99-B-XX /H-X	HISTORIC BORING LOCATION
ITP-XX	TESTPIT LOCATIONS
ICPT-XX	CPT PROBES
IDX-XX	DMT PROBES
IBR-XX (WELL)	WELL LOCATION

GRAPHIC SCALE

0 100 200

SCALE: 1"=100'

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I-95 / SR-1 INTERCHANGE

BORING LOCATION PLAN

FIGURE NO. A-2d

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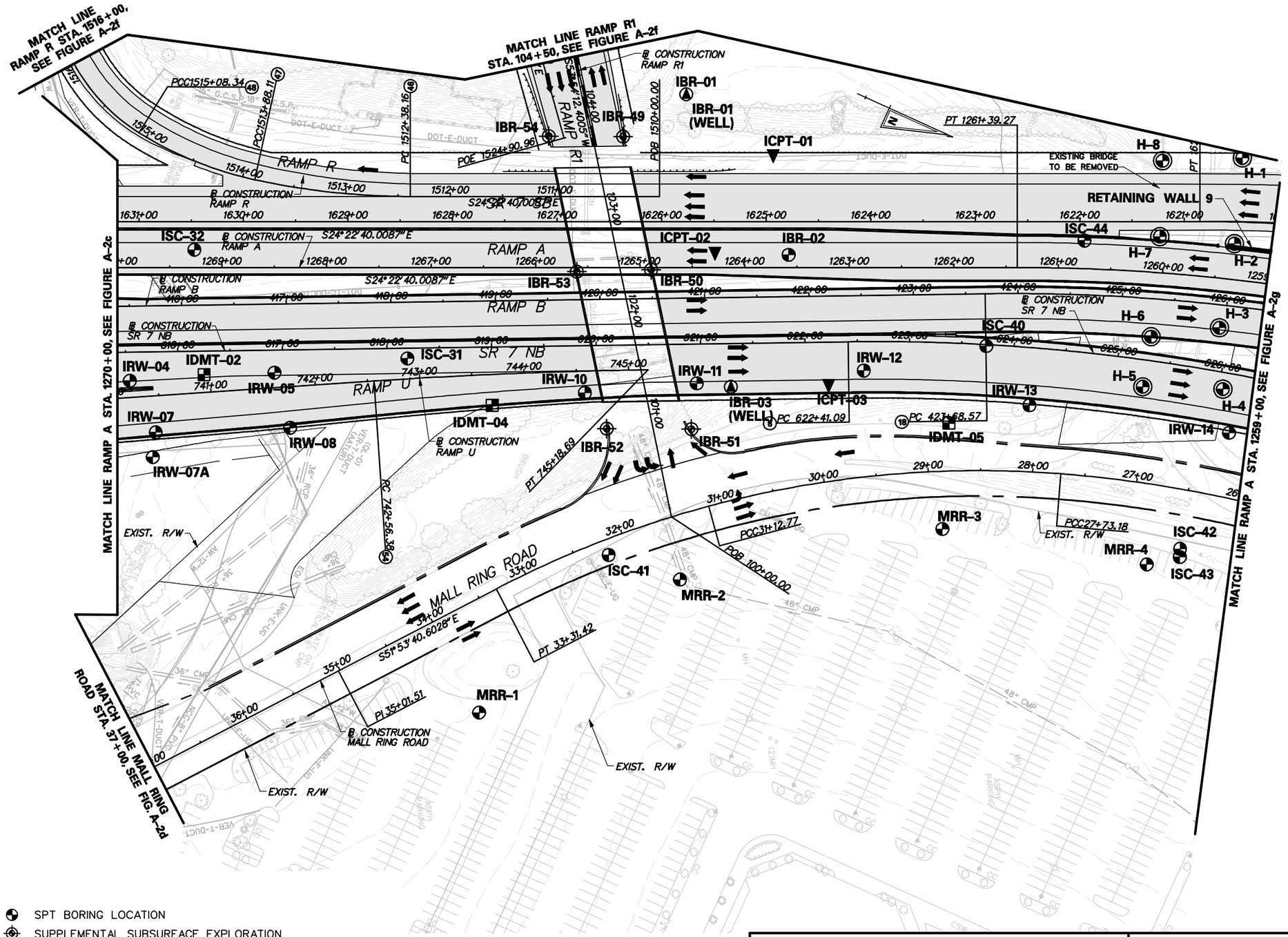

LEGEND

ISC-XX	SPT BORING LOCATION
IEB-XX	SUPPLEMENTAL SUBSURFACE EXPLORATION
99-B-XX /H-X	HISTORIC BORING LOCATION
ITP-XX	TESTPIT LOCATIONS
ICPT-XX	CPT PROBES
IDX-XX	DMT PROBES
IBR-XX (WELL)	WELL LOCATION

GRAPHIC SCALE
0 100 200
SCALE: 1"=100'

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I-95 / SR-1 INTERCHANGE
BORING LOCATION PLAN

FIGURE NO. A-2e

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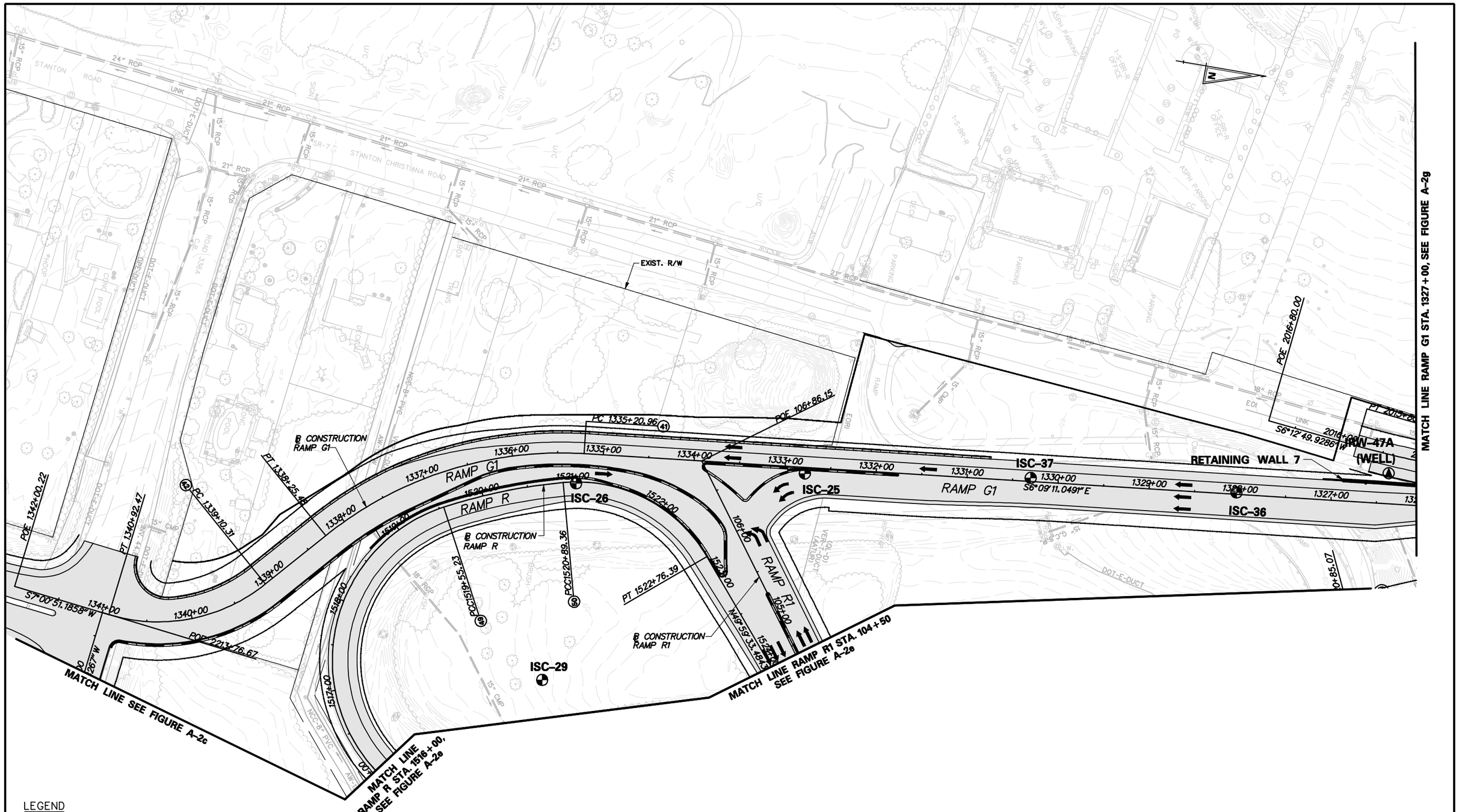

LEGEND

ISC-XX	SPT BORING LOCATION
IEB-XX	SUPPLEMENTAL SUBSURFACE EXPLORATION
99-B-XX /H-X	HISTORIC BORING LOCATION
ITP-XX	TESTPIT LOCATIONS
ICPT-XX	CPT PROBES
IDX-XX	DMT PROBES
IBR-XX (WELL)	WELL LOCATION

GRAPHIC SCALE

0 100 200

SCALE: 1"=100'

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I-95 / SR-1 INTERCHANGE
BORING LOCATION PLAN

FIGURE NO. A-2f

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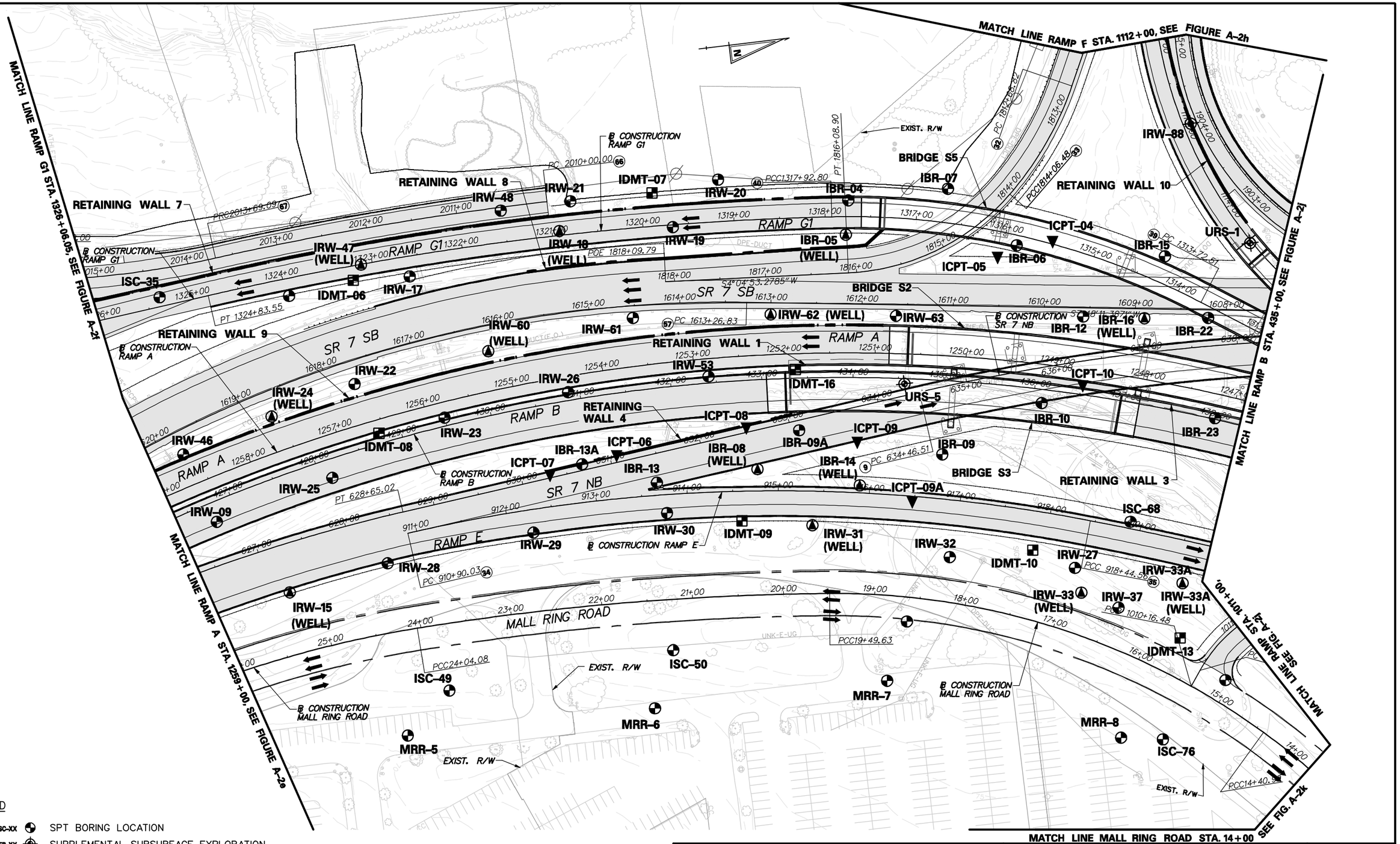

LEGEND

ISC-XX	SPT BORING LOCATION
IEB-XX	SUPPLEMENTAL SUBSURFACE EXPLORATION
99-B-XX /H-X	HISTORIC BORING LOCATION
ITP-XX	TESTPIT LOCATIONS
ICPT-XX	CPT PROBES
IDX-XX	DMT PROBES
IBR-XX (WELL)	WELL LOCATION

GRAPHIC SCALE
0 100 200
SCALE: 1"=100'

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I-95 / SR-1 INTERCHANGE
BORING LOCATION PLAN

FIGURE NO. A-2g

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pcf: 03059_SRMALL

MATCH LINE RAMP F STA. 1112+00, SEE FIGURE A-2i

MATCH LINE SEE FIGURE A-2i

MATCH LINE I-95 STA. 63+50

MATCH LINE SEE FIGURE A-2i

RAMP F

S64°13'10.95"E

EXISTING R/W

POB 1809+54.59

PT 1106+49.00

PC 1109+54.59

PCC1101+50.00

RETAINING WALL 10

IRW-87

IRW-86

ISC-66

ISC-65

SWM-01

SW-6

SWM FACILITY "F"

PCC1906+15.99

PCC1907+48.20

PCC1910+67.73

PT 1912+90.50

ISC-64

TP-11

TP-10

TP-07

ISC-115

ISC-116

TP-09

TP-06

ISC-117

TP-05

TP-08

SWM FACILITY "E"

℄ CONSTRUCTION I95

I95 NB

I95 SB

1812+00

1811+00

1810+00

1110+00

1109+00

1108+00

1107+00

1106+00

1105+00

1104+00

1103+00

1102+00

1101+00

1906+00

1907+00

1908+00

1909+00

1910+00

1911+00

1912+00

100+50.00

57+00

56+00

55+00

54+00

53+00

52+00

51+00

50+00

49+00

48+00

47+00

46+00

45+00

44+00

43+00

N

LEGEND

ISC-XX	SPT BORING LOCATION
IEB-XX	SUPPLEMENTAL SUBSURFACE EXPLORATION
99-B-XX /H-X	HISTORIC BORING LOCATION
ITP-XX	TESTPIT LOCATIONS
ICPT-XX	CPT PROBES
IXX-XX	DMT PROBES
IBR-XX (WELL)	WELL LOCATION

GRAPHIC SCALE

0 100 200

SCALE: 1"=100'

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I-95 / SR-1 INTERCHANGE

BORING LOCATION PLAN

FIGURE NO. A-2h

DRAWN BY	APPROVED BY	SCALE	DATE	COMMISSION. NO.
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pcf: 03059_SRWALL

MATCH LINE I-95 STA. 63+50

MATCH LINE SEE FIGURE A-2h

MATCH LINE SEE FIGURE A-2p

MATCH LINE SEE FIGURE A-2j

MATCH LINE SR 7 NB STA. 645+50

MATCH LINE I-95 STA 71+50, SEE FIGURE A-2j

I95 SB

I95 NB

SR 7 SB

SR 7 NB

SR 7 SB (TO I95)

ISC-86

ISC-87

ISC-90

ISC-91

SW-7

P-1

B-7

B-8

B-9

B-10

PC 1695+00.00

PC 1600+00.00

PT 1123+52.53

POE 2113+30.23

PT 2112+77.27

PC 2105+30.32

PT 655+10.18

CONSTRUCTION I95

EXIST. R/W

AD-COM-DUCT

DOT-COM-DUCT

DOT-E-DUCT

ASPH PARKING

WOOD BRIDGE

VENT TEST STATION

ROUTE 7

64+00

65+00

66+00

67+00

68+00

69+00

70+00

71+00

1123+00

1694+00

1695+00

1696+00

1697+00

1698+00

1699+00

2113+00

2112+00

2111+00

2110+00

2109+00

2108+00

2107+00

2106+00

2105+00

646+00

647+00

648+00

649+00

650+00

651+00

652+00

653+00

654+00

655+00

656+00

657+00

LEGEND

ISC-XX	SPT BORING LOCATION
IEB-XX	SUPPLEMENTAL SUBSURFACE EXPLORATION
99-B-XX /H-X	HISTORIC BORING LOCATION
ITP-XX	TESTPIT LOCATIONS
ICPT-XX	CPT PROBES
IDX-XX	DMT PROBES
IBR-XX (WELL)	WELL LOCATION

GRAPHIC SCALE

0 100 200

SCALE: 1"=100'

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I-95 / SR-1 INTERCHANGE

BORING LOCATION PLAN

FIGURE NO. A-2i

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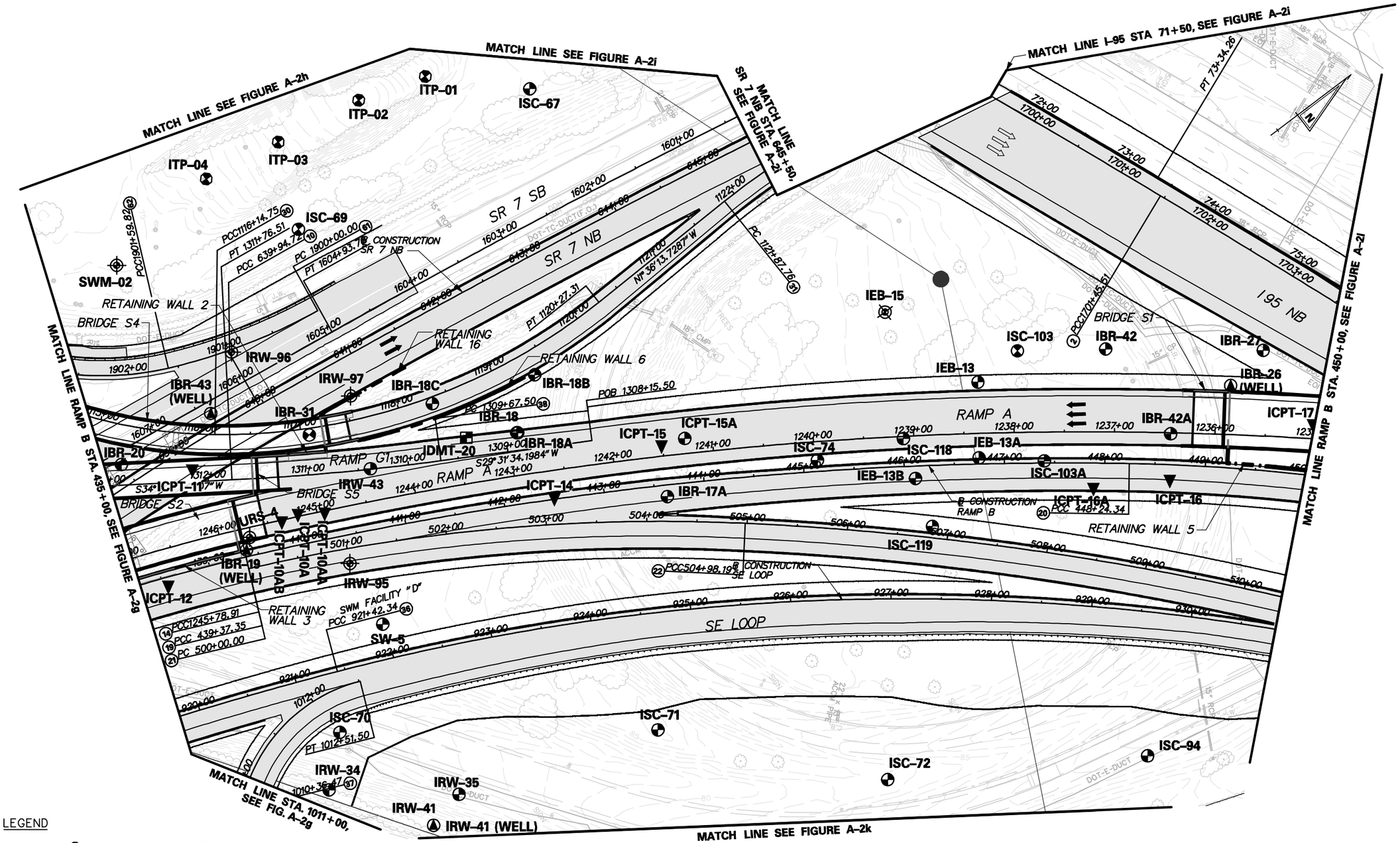

LEGEND

- ISC-XX — SPT BORING LOCATION
- IEB-XX — SUPPLEMENTAL SUBSURFACE EXPLORATION
- 99-B-XX /H-X — HISTORIC BORING LOCATION
- ITP-XX — TESTPIT LOCATIONS
- ICPT-XX — CPT PROBES
- DX-XX — DMT PROBES
- IBR-XX (WELL) — WELL LOCATION

GRAPHIC SCALE
0 100 200
SCALE: 1"=100'

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I-95 / SR-1 INTERCHANGE
BORING LOCATION PLAN

FIGURE NO. A-2j

DRAWN BY	APPROVED BY	SCALE	DATE	COMMISSION. NO.
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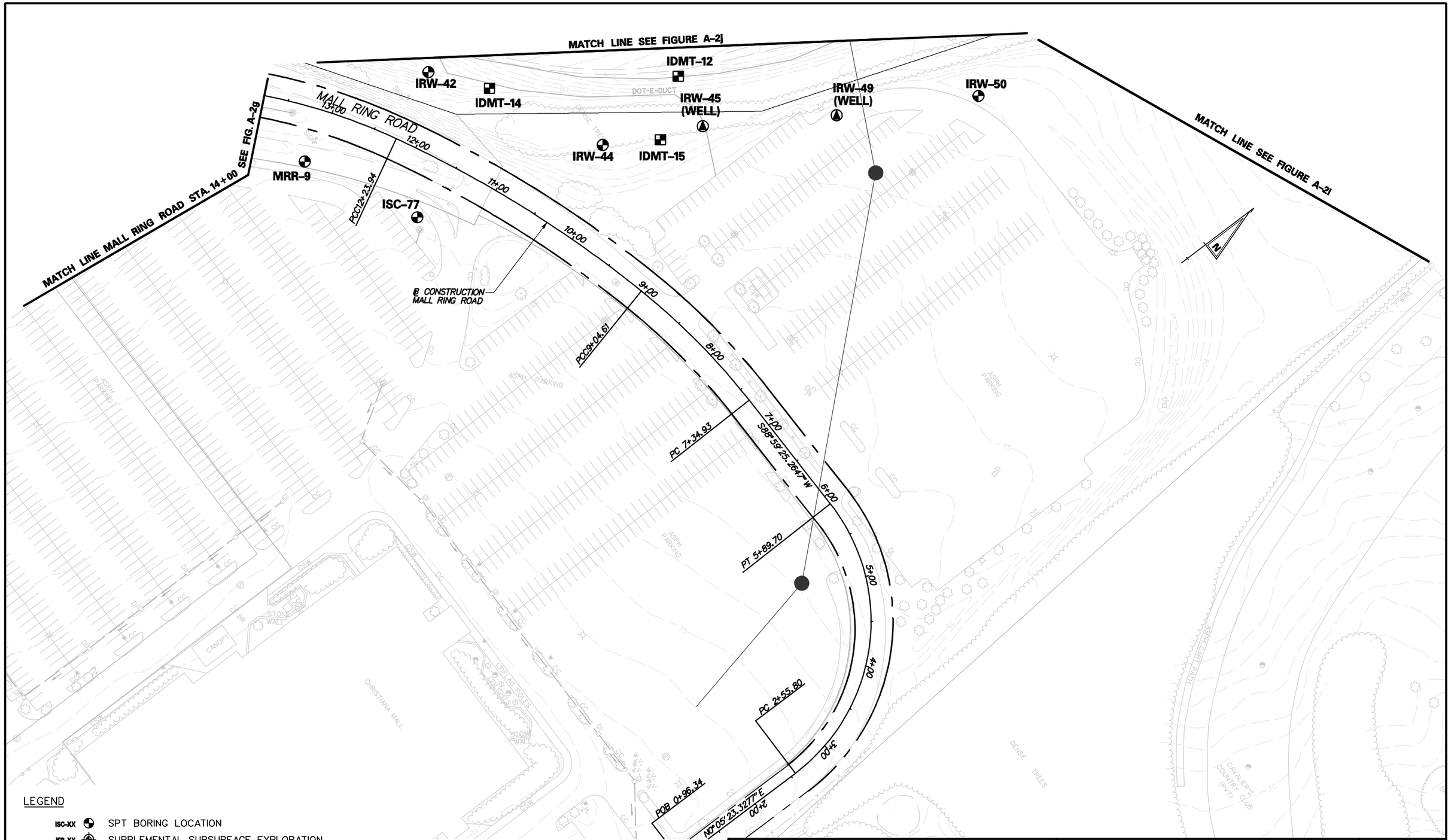

LEGEND

- ISC-XX — SPT BORING LOCATION
- IEB-XX — SUPPLEMENTAL SUBSURFACE EXPLORATION
- 99-B-XX /H-X — HISTORIC BORING LOCATION
- ITP-XX — TESTPIT LOCATIONS
- ICPT-XX — CPT PROBES
- IDX-XX — DMT PROBES
- IBR-XX (WELL) — WELL LOCATION

GRAPHIC SCALE

0 100 200

SCALE: 1"=100'

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I-95 / SR-1 INTERCHANGE
BORING LOCATION PLAN

FIGURE NO. A-2k

DRAWN BY	APPROVED BY	SCALE	DATE	COMMISSION. NO.
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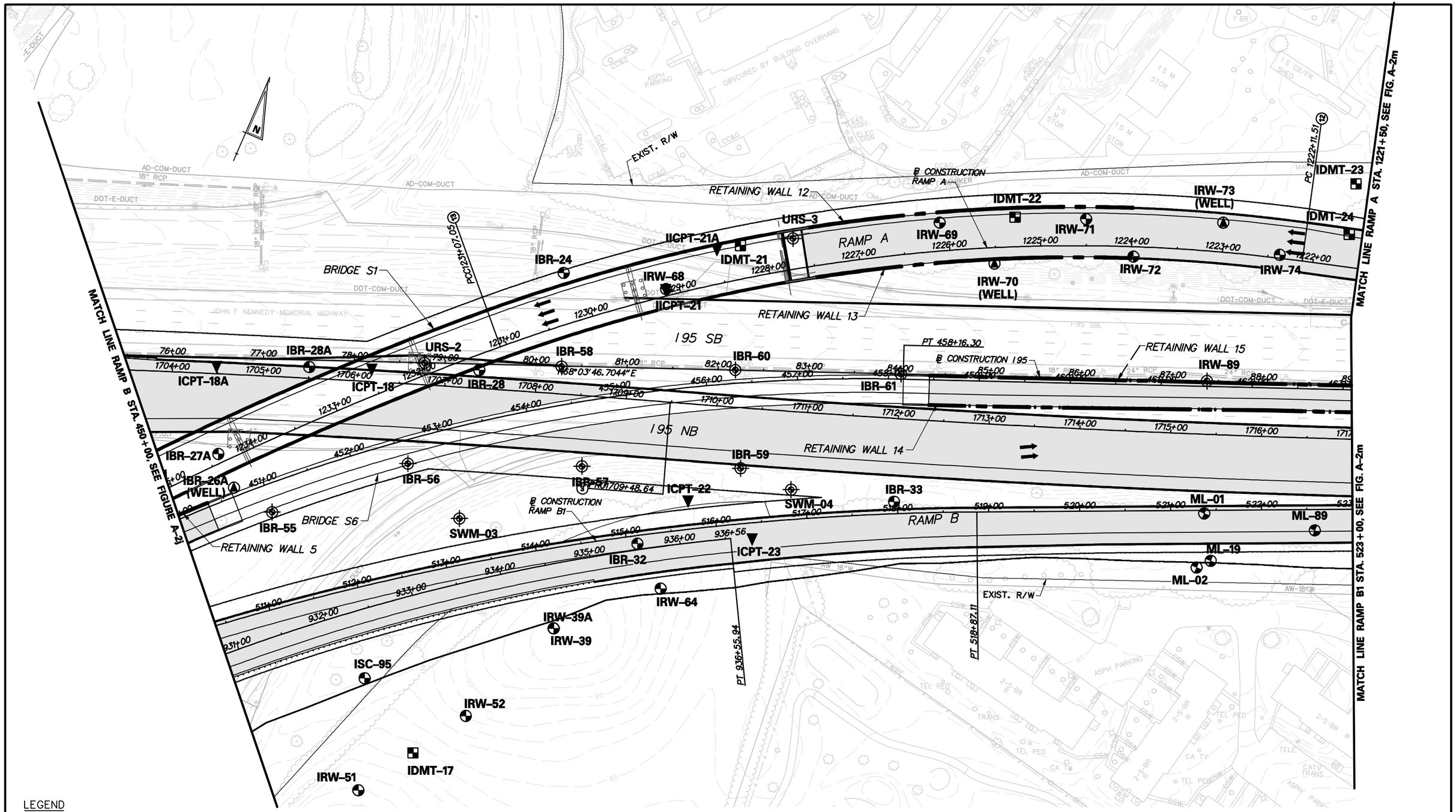

LEGEND

- ISC-XX — SPT BORING LOCATION
- IEB-XX — SUPPLEMENTAL SUBSURFACE EXPLORATION
- 99-B-XX /H-X — HISTORIC BORING LOCATION
- ITP-XX — TESTPIT LOCATIONS
- ICPT-XX — CPT PROBES
- IDX-XX — DMT PROBES
- IBR-XX (WELL) — WELL LOCATION

GRAPHIC SCALE
0 100 200
SCALE: 1"=100'

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I-95 / SR-1 INTERCHANGE
BORING LOCATION PLAN

FIGURE NO. A-2I

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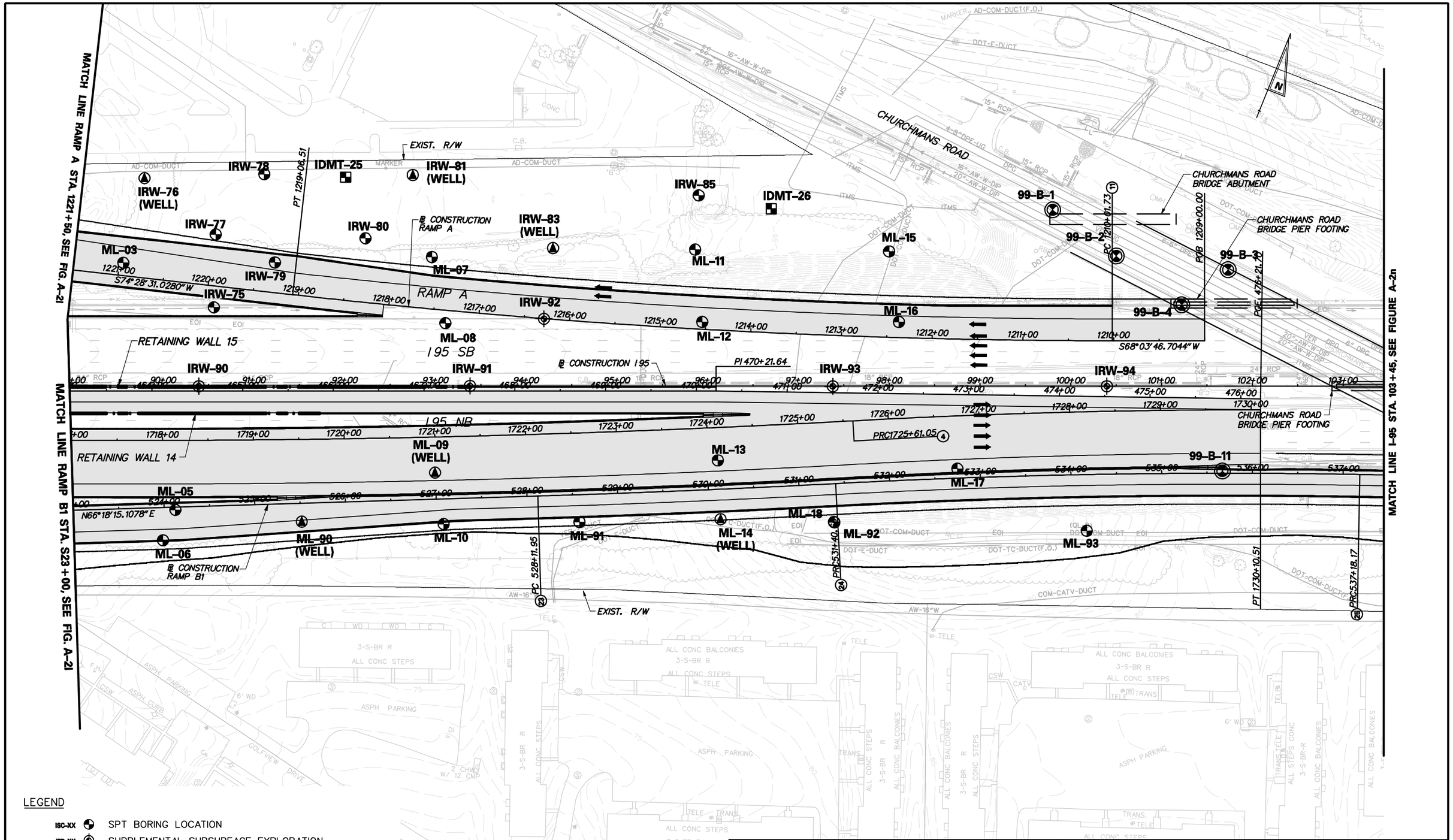

LEGEND

ISC-XX	SPT BORING LOCATION
IEB-XX	SUPPLEMENTAL SUBSURFACE EXPLORATION
99-B-XX /H-X	HISTORIC BORING LOCATION
ITP-XX	TESTPIT LOCATIONS
ICPT-XX	CPT PROBES
IDX-XX	DMT PROBES
IBR-XX (WELL)	WELL LOCATION

GRAPHIC SCALE
0 100 200
SCALE: 1"=100'

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I-95 / SR-1 INTERCHANGE
BORING LOCATION PLAN

FIGURE NO. A-2m

DRAWN BY	APPROVED BY	SCALE	DATE	COMMISSION. NO.
KDT	EMK	1"=100'-0"	FEBRUARY 2009	103-059-27U

2/5/2009
m:\projects\2003\03059_deltrnpk\Geotech\INTERCHANGE FINAL DESIGN 2008\CADD\Soil_Bore_SR1.dgn
pcf: 03059_SRMALL

MATCH LINE I-95 STA. 103+45, SEE FIGURE A-2m

MATCH LINE I-95 STA. 118+20, SEE FIGURE A-2o

EXIST. R/W

ML-20 ML-21 ML-22 ML-23 ML-25 ML-26 ML-29 ML-32 ML-34 (WELL) ML-35 ML-36 ML-40 ML-43 ML-45 ML-46 ML-47 ML-48 (WELL) ML-50 ML-51 ML-53 ML-54 ML-55 ML-56

99-B-8 99-B-9 99-B-10

CHURCHMANS ROAD BRIDGE PIER FOOTING

CHURCHMANS ROAD BRIDGE ABUTMENT

RETAINING WALL 11

℄ CONSTRUCTION RAMP B1

℄ CONSTRUCTION I95

I95 SB

I95 NB

CHURCHMANS ROAD

PRC 544+85.95

PT 548+00.02

EXISTING 1½" HORIZ. DRAINS

538+00 539+00 540+00 541+00 542+00 543+00 544+00 545+00 546+00 547+00 548+00 549+00 550+00 551+00 552+00

104+00 105+00 106+00 107+00 108+00 109+00 110+00 111+00 112+00 113+00 114+00 115+00 116+00 117+00 118+00

LEGEND

ISC-XX	SPT BORING LOCATION
IEB-XX	SUPPLEMENTAL SUBSURFACE EXPLORATION
99-B-XX /H-X	HISTORIC BORING LOCATION
ITP-XX	TESTPIT LOCATIONS
ICPT-XX	CPT PROBES
IDX-XX	DMT PROBES
IBR-XX (WELL)	WELL LOCATION

GRAPHIC SCALE

0 100 200

SCALE: 1"=100'

RUMMEL, KLEPPER & KAHL, LLP

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BALTIMORE, MARYLAND

I-95 / SR-1 INTERCHANGE

BORING LOCATION PLAN

FIGURE NO. A-2n

DRAWN BY	APPROVED BY	SCALE	DATE	COMMISSION. NO.
KDT	EMK	1"=100'-0"	FEBRUARY 2009	103-059-27U

2/5/2009
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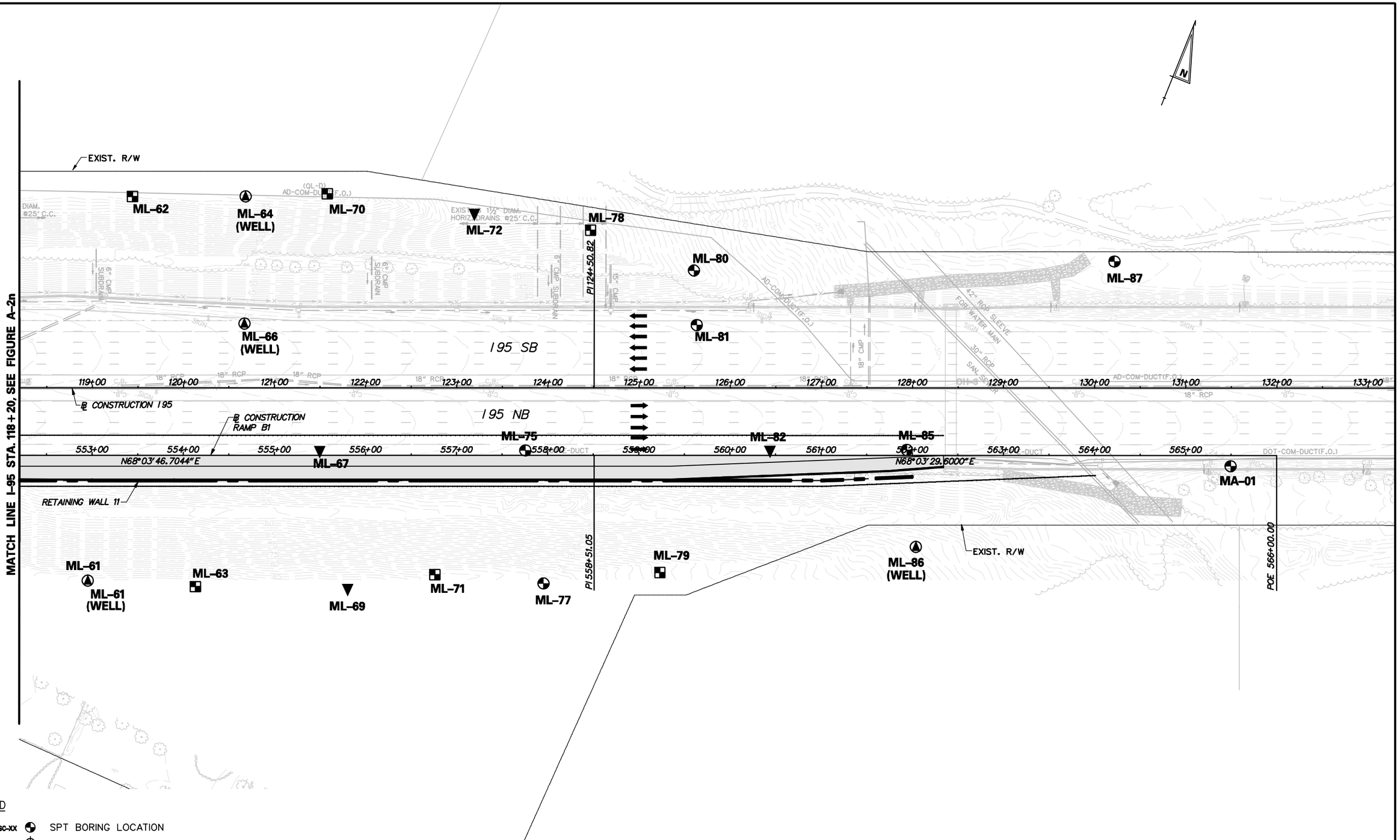

LEGEND

ISC-XX	SPT BORING LOCATION
IEB-XX	SUPPLEMENTAL SUBSURFACE EXPLORATION
99-B-XX /H-X	HISTORIC BORING LOCATION
ITP-XX	TESTPIT LOCATIONS
ICPT-XX	CPT PROBES
IDX-XX	DMT PROBES
IBR-XX (WELL)	WELL LOCATION

GRAPHIC SCALE
0 100 200
SCALE: 1"=100'

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CONSULTING ENGINEERS
BALTIMORE, MARYLAND

I-95 / SR-1 INTERCHANGE
BORING LOCATION PLAN

FIGURE NO. A-2o

DRAWN BY	APPROVED BY	SCALE	DATE	COMMISSION. NO.
KDT	EMK	1"=100'-0"	FEBRUARY 2009	103-059-27U

2/5/2009
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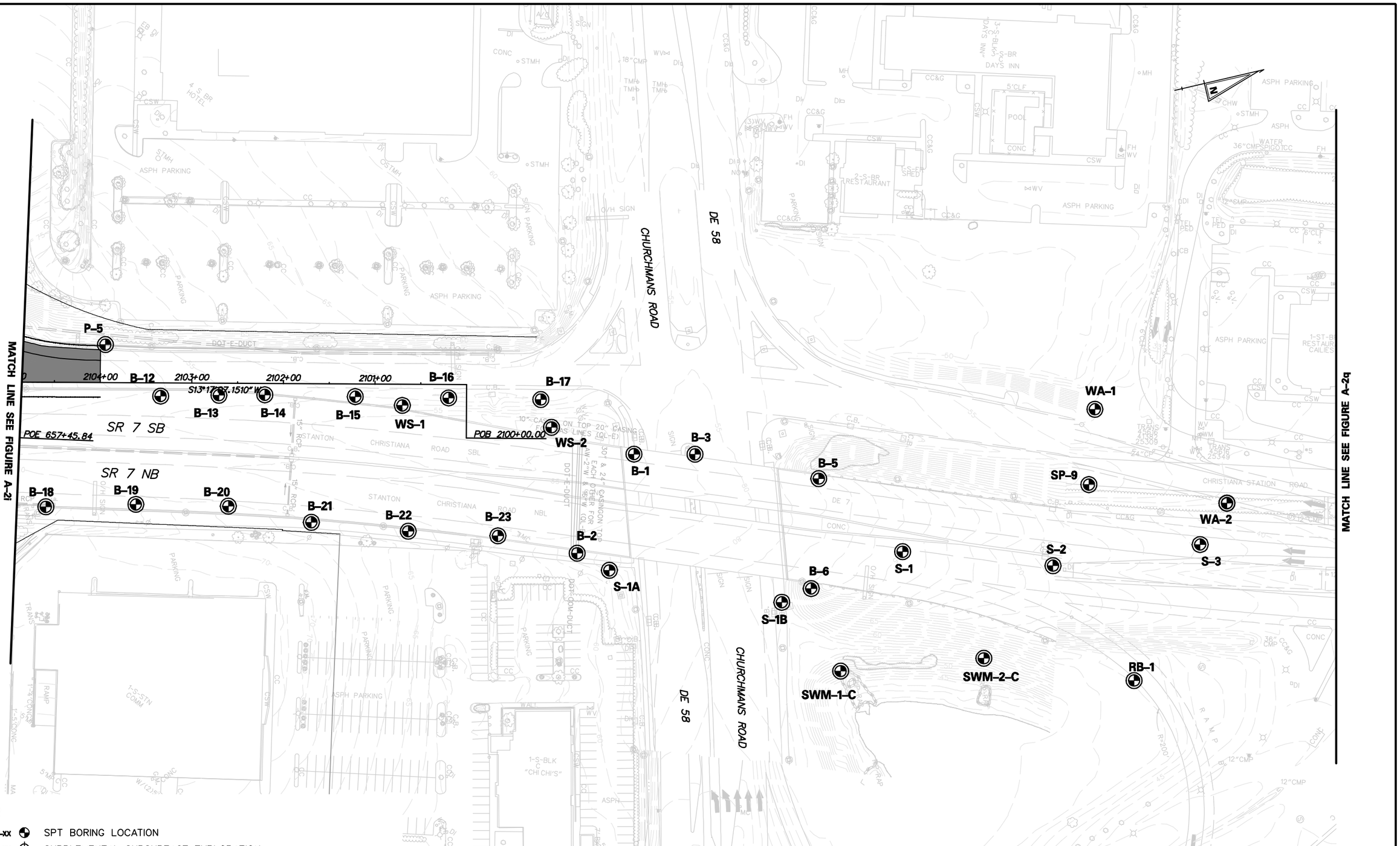

LEGEND

- ISC-XX — SPT BORING LOCATION
- IEB-XX — SUPPLEMENTAL SUBSURFACE EXPLORATION
- 99-B-XX /H-X — HISTORIC BORING LOCATION
- ITP-XX — TESTPIT LOCATIONS
- ICPT-XX — CPT PROBES
- IDX-XX — DMT PROBES
- IBR-XX (WELL) — WELL LOCATION

GRAPHIC SCALE
0 100 200
SCALE: 1"=100'

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BALTIMORE, MARYLAND

I-95 / SR-1 INTERCHANGE
BORING LOCATION PLAN

FIGURE NO. A-2p

DRAWN BY	APPROVED BY	SCALE	DATE	COMMISSION. NO.
KDT	EMK	1"=100'-0"	FEBRUARY 2009	103-059-27U

2/5/2009
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pcf: 03059_SRMALL

MATCH LINE SEE FIGURE A-2p

HW-1
WA-4
WA-3
WA-5
WA-6
P-4
P-3
HW-2

SR 7 SB
SR 7 NB

DENSE TREES
ASPH PARKING
CURB & GUTTER
STATE ROUTE 7 SBL
STATE ROUTE 7 NBL
MEDIAN
SHOULDER
Curb & Gutter
AAA BLVD

LEGEND

ISC-XX	SPT BORING LOCATION
IEB-XX	SUPPLEMENTAL SUBSURFACE EXPLORATION
99-B-XX /H-X	HISTORIC BORING LOCATION
ITP-XX	TESTPIT LOCATIONS
ICPT-XX	CPT PROBES
IDX-XX	DMT PROBES
IBR-XX (WELL)	WELL LOCATION

GRAPHIC SCALE
0 100 200
SCALE: 1"=100'

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BALTIMORE, MARYLAND

I-95 / SR-1 INTERCHANGE
BORING LOCATION PLAN

FIGURE NO. A-2q

DRAWN BY	APPROVED BY	SCALE	DATE	COMMISSION. NO.
KDT	EMK	1"=100'-0"	FEBRUARY 2009	103-059-27U

2/5/2009
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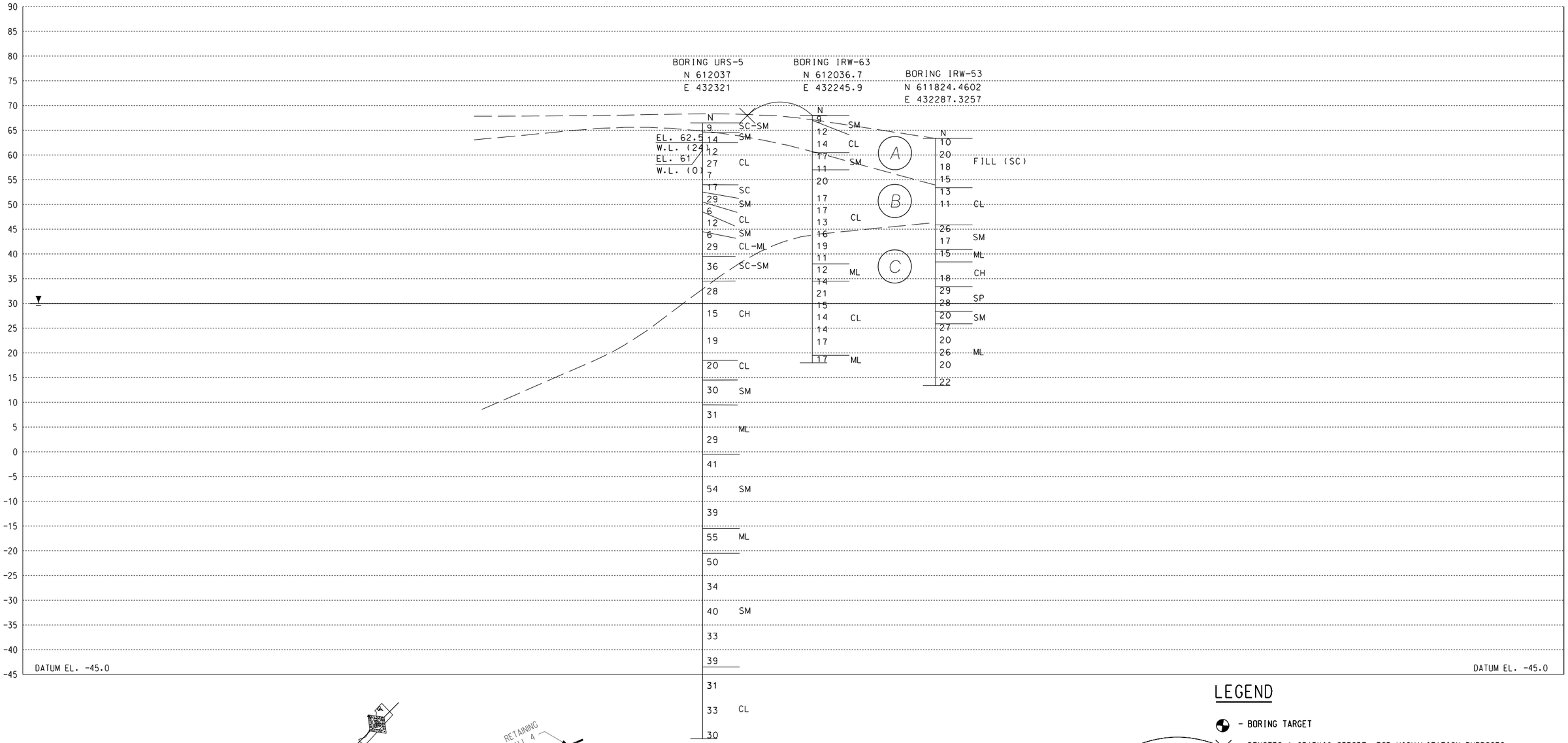
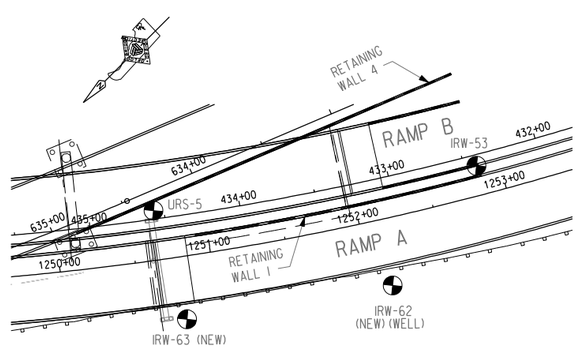
pcf: 03059_SRMALL



SOIL PROFILE

SCALE: VERT. 1" = 20'-0"
HORIZ. 1" = 60'-0"



BORING LOCATION PLAN

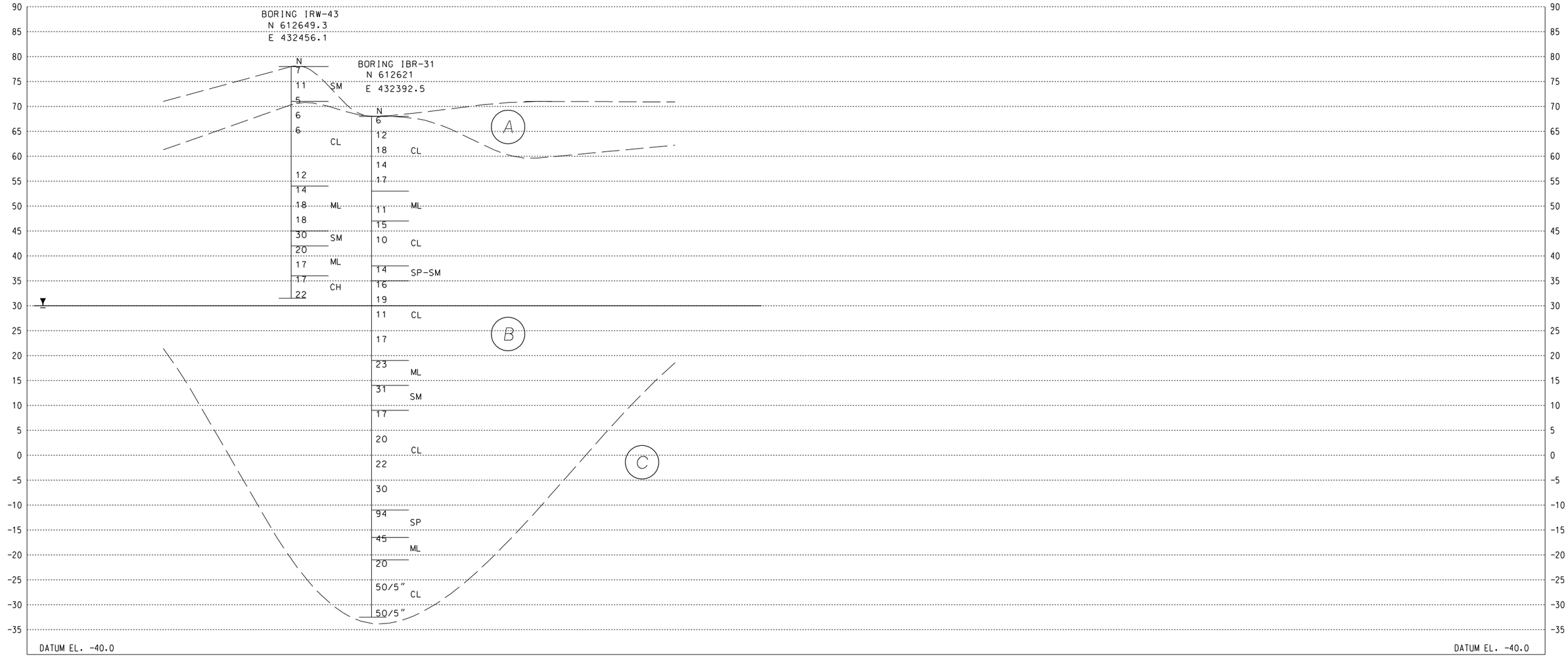
SCALE: 1" = 100'-0"

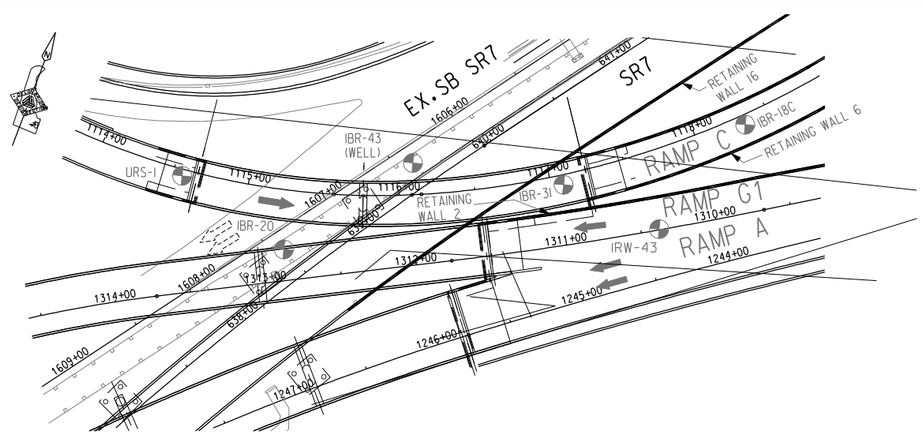
LEGEND

- BORING TARGET
- DENOTES A GRAPHIC OFFSET, FOR VISUALIZATION PURPOSES
- DENOTES THE ACTUAL LOCATION OF THE BORING ALONG THE BASELINE
- (A) COLUMBIA FORMATION & FILL
- (B) POTOMAC FORMATION CLAY - W/SILT & SAND SEAMS
- (C) POTOMAC FORMATION SAND - MEDIUM DENSE TO DENSE
- (D) POTOMAC FORMATION SAND - VERY DENSE
- DESIGN GROUNDWATER ELEVATION

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SR1 / I-95 INTERCHANGE	CONTRACT 28-090-03	BRIDGE NO.	SOIL PROFILE RETAINING WALL 1
			COUNTY NEW CASTLE	DESIGNED BY: URS	SHEET NO. A-3a
				CHECKED BY:	TOTAL SHTS.

Feb 10, 2009 Q:\20832687-XM\CAD\Bridge\bo60i.dgn
jason_kotova





BORING LOCATION PLAN

SCALE: 1" = 100'-0"

SOIL PROFILE

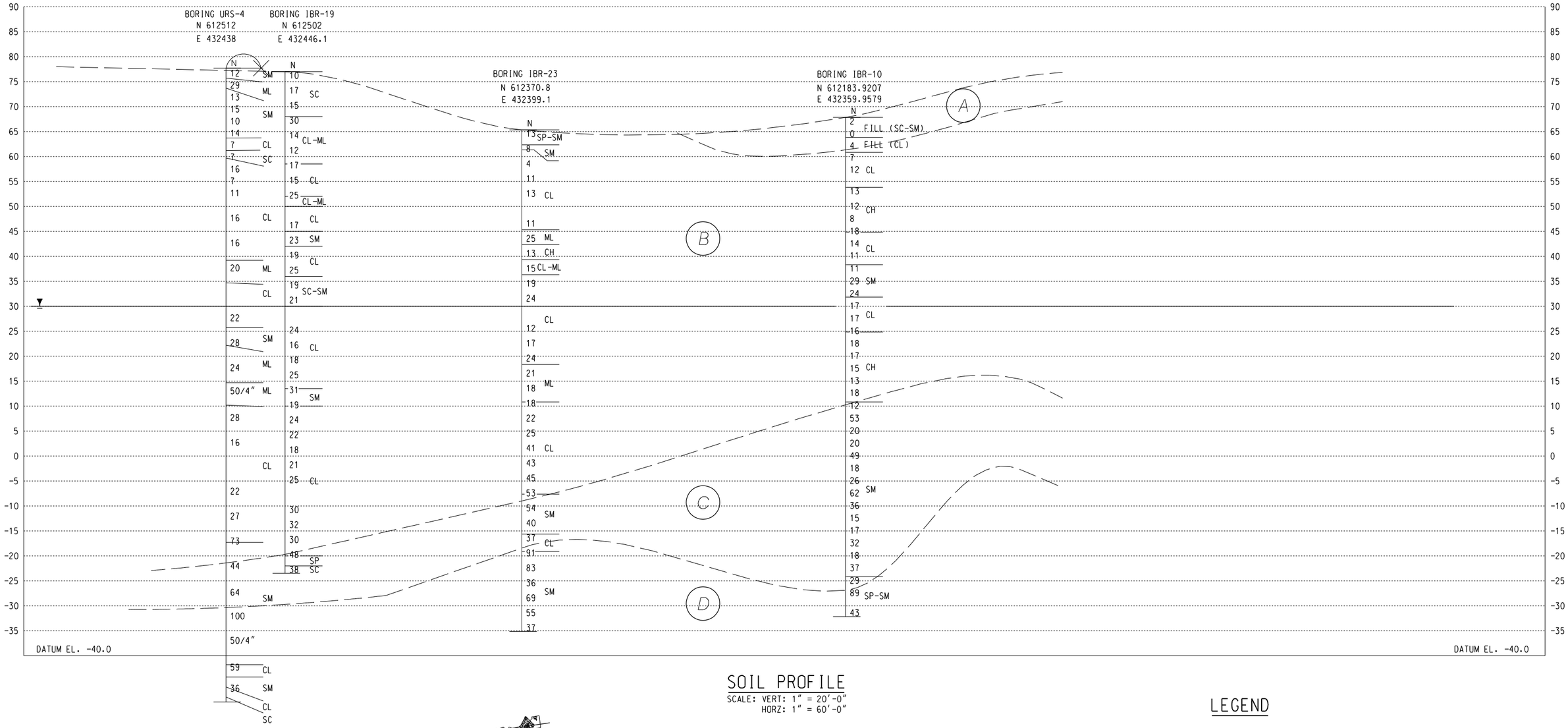
SCALE: VERT: 1" = 20'-0"
HORZ: 1" = 60'-0"

LEGEND

- BORING TARGET
- DENOTES A GRAPHIC OFFSET, FOR VISUALIZATION PURPOSES
- DENOTES THE ACTUAL LOCATION OF THE BORING ALONG THE BASELINE
- (A) COLUMBIA FORMATION & FILL
- (B) POTOMAC FORMATION CLAY - W/SILT & SAND SEAMS
- (C) POTOMAC FORMATION SAND - MEDIUM DENSE TO DENSE
- (D) POTOMAC FORMATION SAND - VERY DENSE
- DESIGN GROUNDWATER ELEVATION

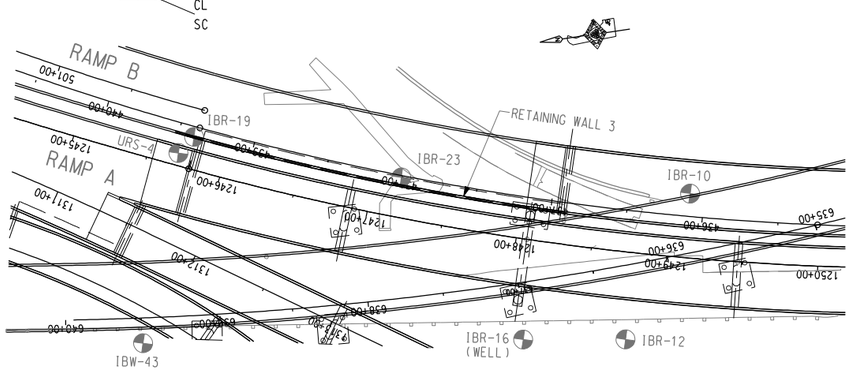
DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SR1 / I-95 INTERCHANGE	CONTRACT 28-090-03	BRIDGE NO.	SOIL PROFILE RETAINING WALL 2
			COUNTY NEW CASTLE	DESIGNED BY: URS	SHEET NO. A-3b
				CHECKED BY:	TOTAL SHTS.

jason_kotova Feb 10, 2009 Q:\20832687-XM\CAD\Bridge\bo701.dgn



SOIL PROFILE

SCALE: VERT: 1" = 20'-0"
HORZ: 1" = 60'-0"



BORING LOCATION PLAN

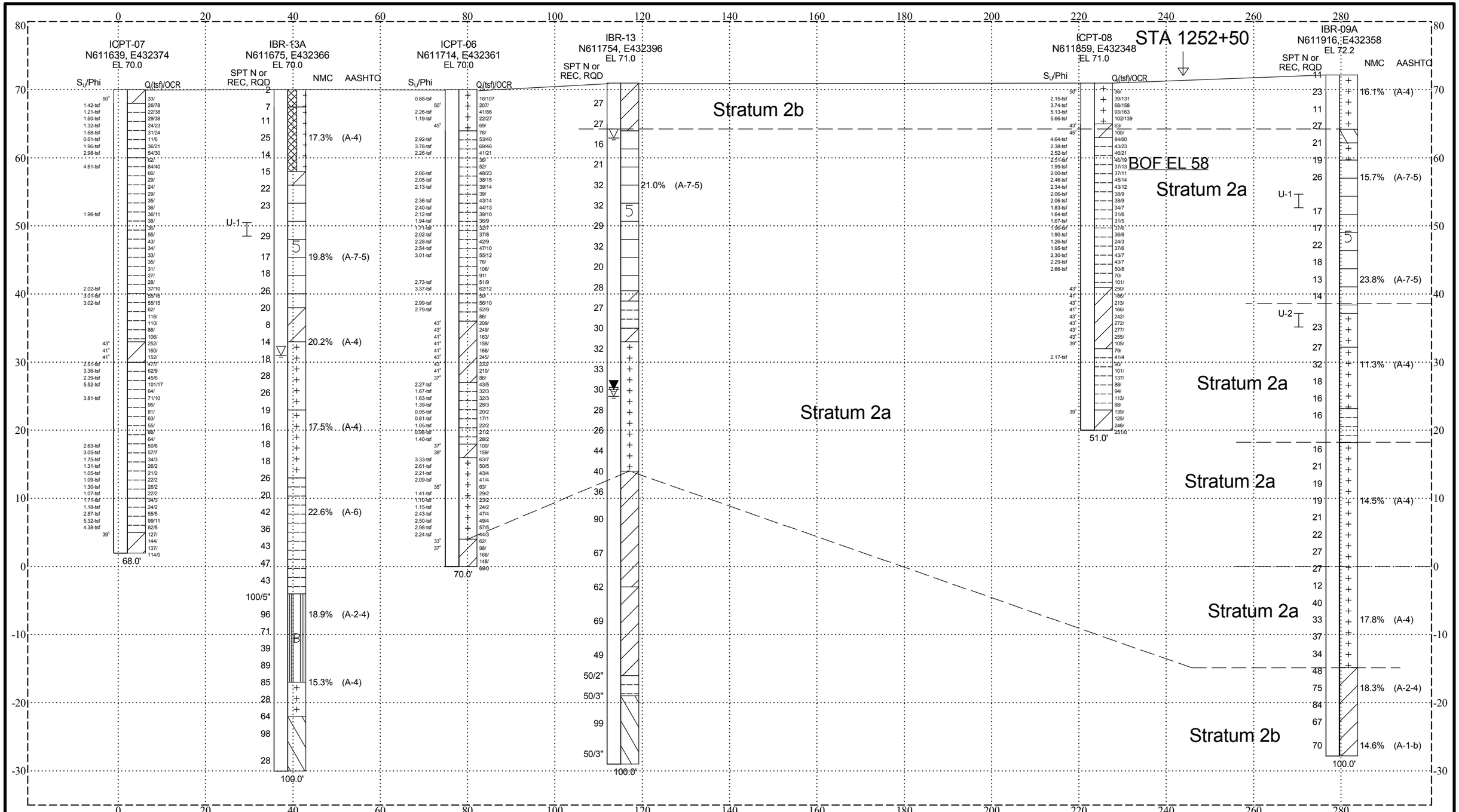
SCALE: 1" = 100'-0"

LEGEND

- BORING TARGET
- DENOTES A GRAPHIC OFFSET, FOR VISUALIZATION PURPOSES
- DENOTES THE ACTUAL LOCATION OF THE BORING ALONG THE BASELINE
- (A) COLUMBIA FORMATION & FILL
- (B) POTOMAC FORMATION CLAY - W/SILT & SAND SEAMS
- (C) POTOMAC FORMATION SAND - MEDIUM DENSE TO DENSE
- (D) POTOMAC FORMATION SAND - VERY DENSE
- DESIGN GROUNDWATER ELEVATION

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SR1 / I-95 INTERCHANGE	CONTRACT 28-090-03	BRIDGE NO.	SOIL PROFILE RETAINING WALL 3
			COUNTY NEW CASTLE	DESIGNED BY: URS	SHEET NO. A-3C
				CHECKED BY:	TOTAL SHTS.

jason_kotova Feb 10, 2009 G:\20832687-XM\CAD\Bridge\bo801.dgn



AASHTO SOIL KEY

A	A-1-a	5	A-2-5		A-5		A-8
B	A-1-b		A-2-6		A-6		Asphalt
	A-3	7	A-2-7	5	A-7-5		FILL
	A-2-4	+ + + + + +	A-4		A-7-6		Decomposed Rock

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Baltimore, MD 21217
(410) 728-2900

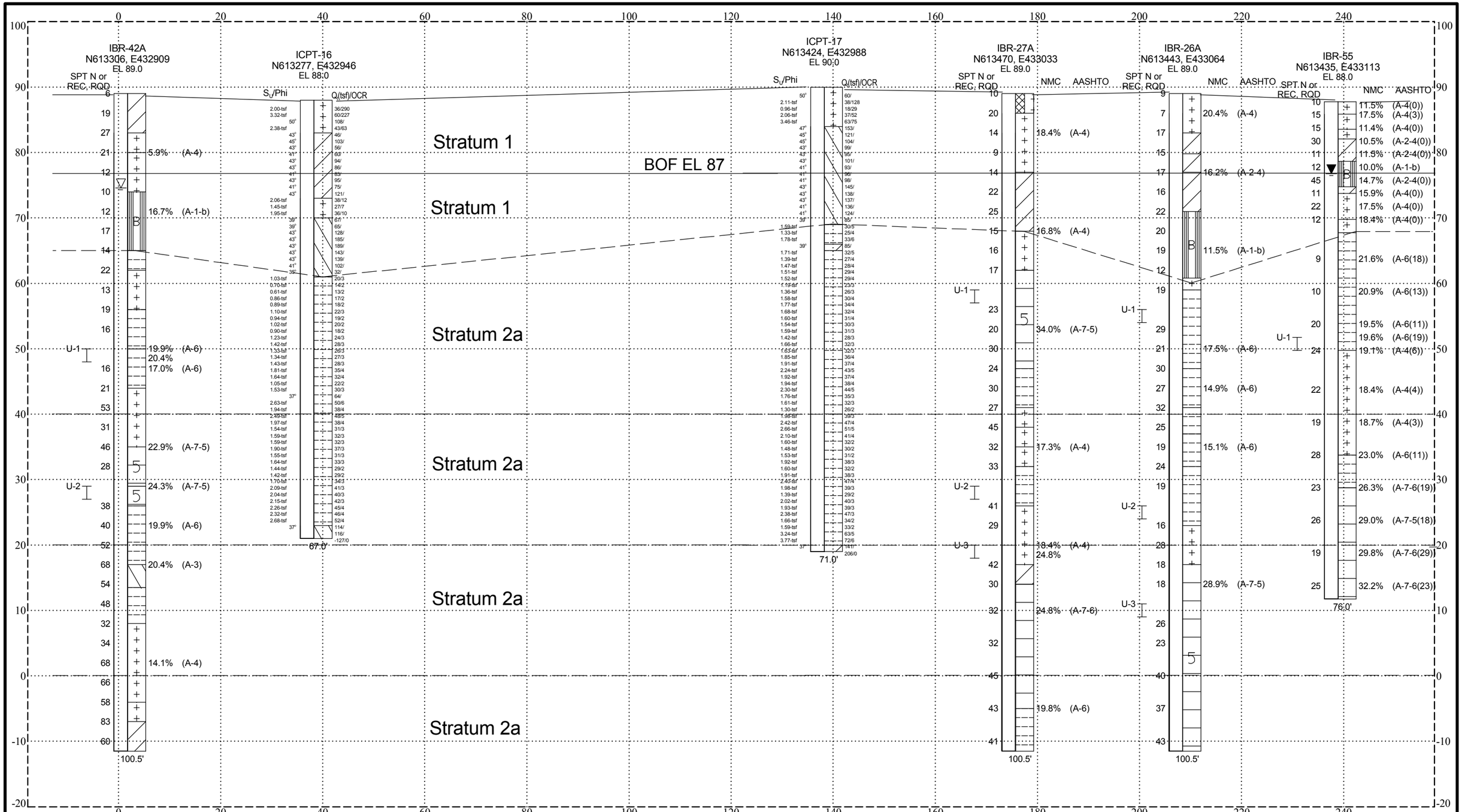
Title: Summary of Boring Data

Retaining Wall 4

Figure No. A-4a

Drawn: CLM | Approved: EMK | Date: 1/7/09 | Comm. No. 103-059-27U

DEL DOT AASHTO ALL DE I95 GINT FILE.GPJ RKK_CURRENT.GDT 1/7/09



AASHTO SOIL KEY

A	A-1-a	5	A-2-5		A-5		A-8
B	A-1-b		A-2-6		A-6		Asphalt
	A-3	7	A-2-7	5	A-7-5		FILL
	A-2-4	+ + +	A-4		A-7-6		Decomposed Rock

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Baltimore, MD 21217
(410) 728-2900

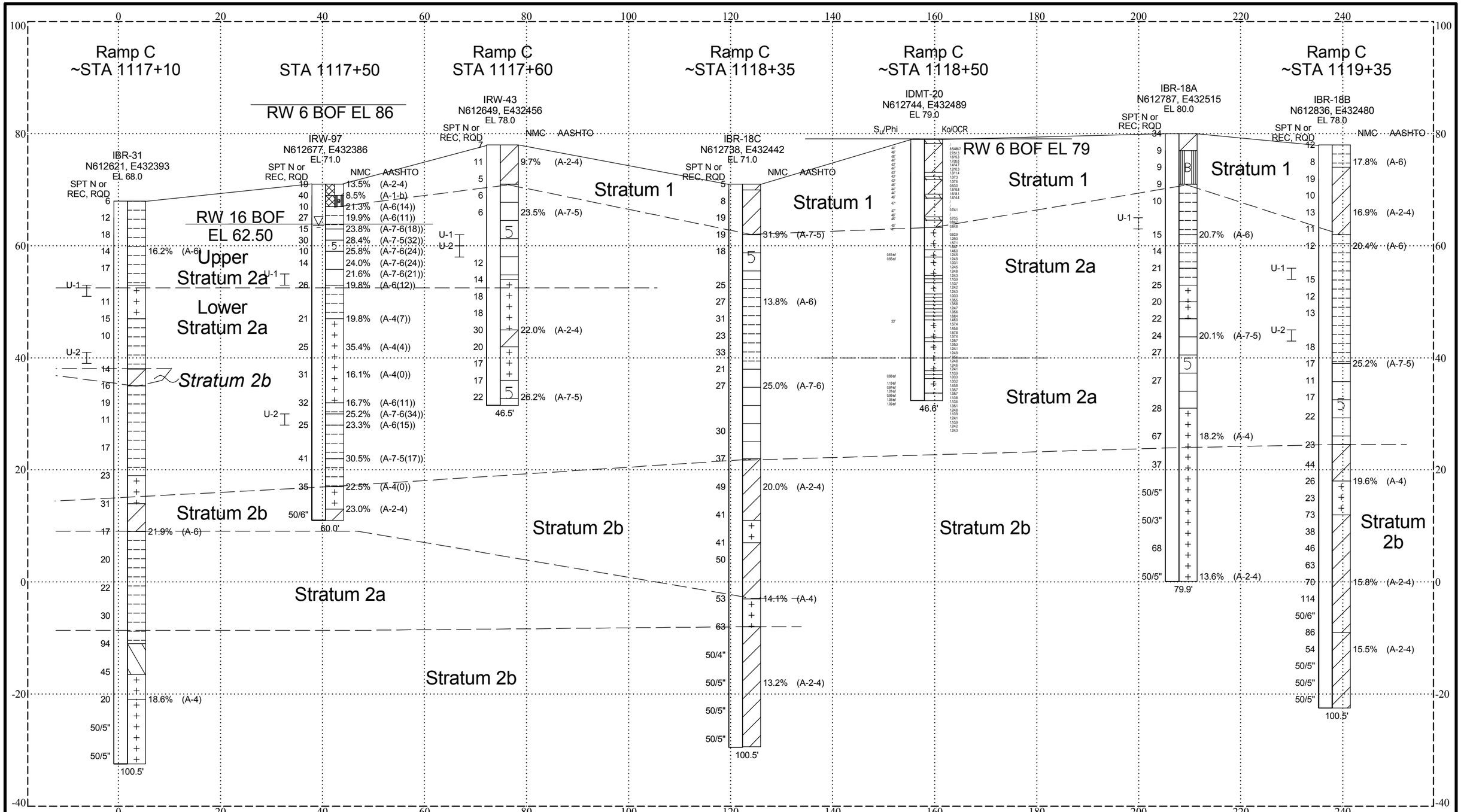
Title: Summary of Boring Data

Retaining Wall 5

Figure No. A-4b

Drawn: CLM | Approved: EMK | Date: 1/7/09 | Comm. No. 103-059-27U

DEL DOT AASHTO ALL DE I95 GINT FILE.GPJ RKK_CURRENT.GDT 1/7/09



AASHTO SOIL KEY

A	A-1-a	5	A-2-5		A-5		A-8
B	A-1-b		A-2-6		A-6		Asphalt
	A-3	7	A-2-7	5	A-7-5		FILL
	A-2-4	+ + + + + +	A-4		A-7-6		Decomposed Rock

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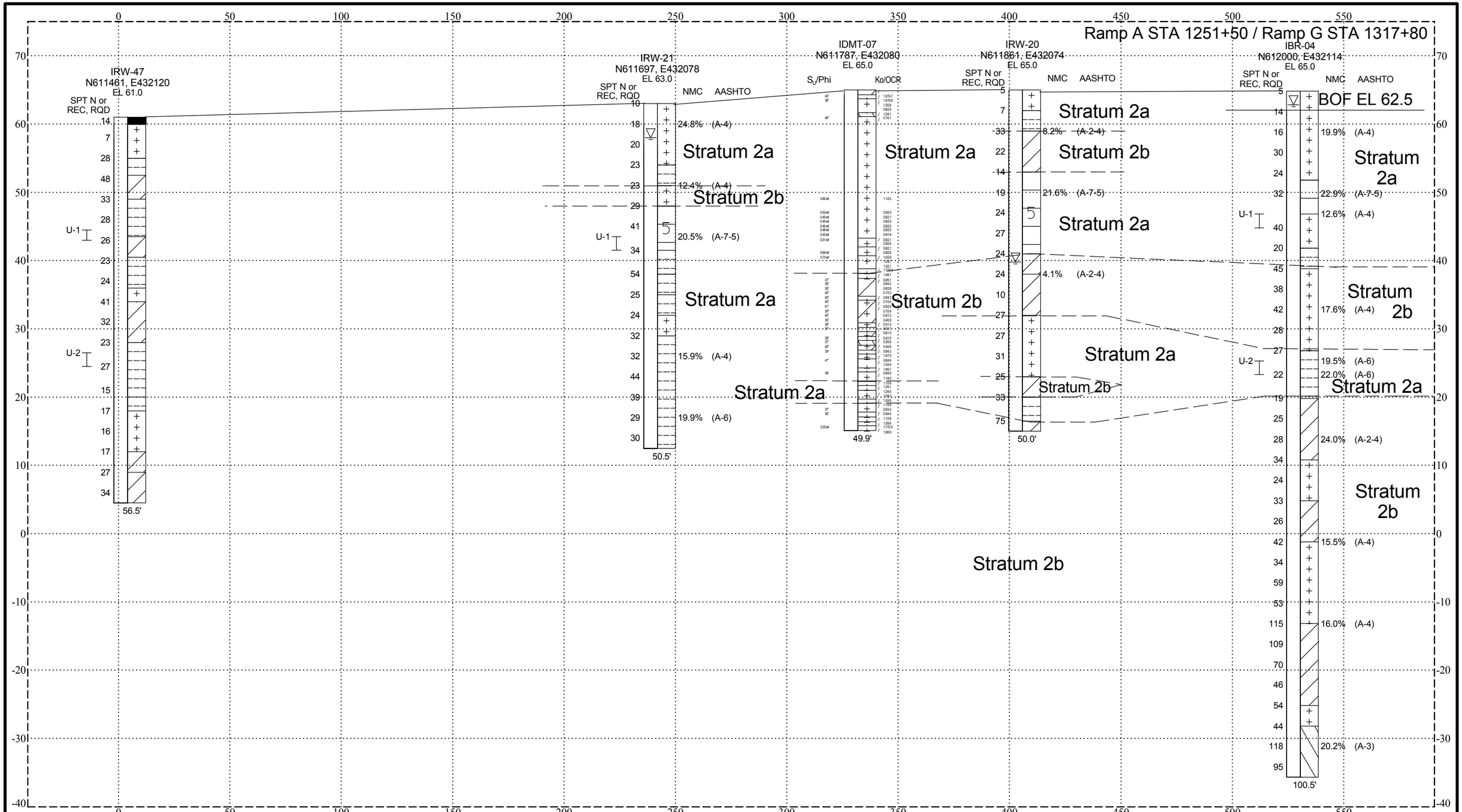
Title: Summary of Boring Data

Retaining Wall 6 and 16

Figure No. A-4c

Drawn: CLM | Approved: EMK | Date: 1/9/09 | Comm. No. 103-059-27U

DEL DOT AASHTO ALL DE I95 GINT FILE.GPJ RKK_CURRENT.GDT 1/9/09



AASHTO SOIL KEY

A	A-1-a	5	A-2-5		A-5		A-8
B	A-1-b		A-2-6		A-6		Asphalt
	A-3	7	A-2-7	5	A-7-5		FILL
	A-2-4	+ + +	A-4		A-7-6		Decomposed Rock

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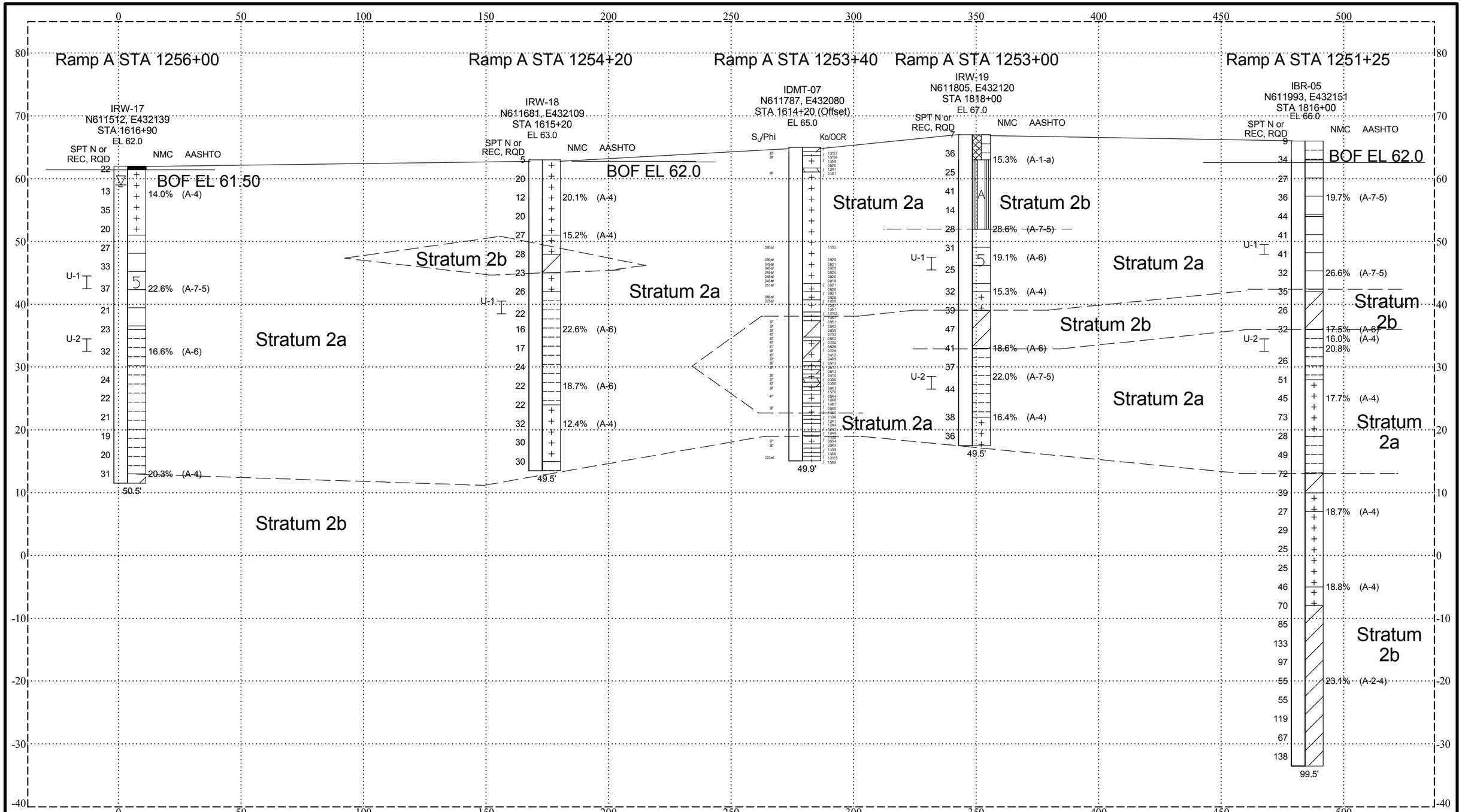
Title: Summary of Boring Data

Retaining Wall 7

Figure No. A-4d

Drawn: CLM | Approved: EMK | Date: 1/8/09 | Comm. No. 103-059-27U

DEL DOT AASHTO ALL DE I95 GINT FILE.GPJ RKK_CURRENT.GDT 1/8/09



AASHTO SOIL KEY

A	A-1-a	5	A-2-5		A-5		A-8
B	A-1-b		A-2-6		A-6		Asphalt
	A-3	7	A-2-7	5	A-7-5		FILL
	A-2-4	+ + +	A-4		A-7-6		Decomposed Rock

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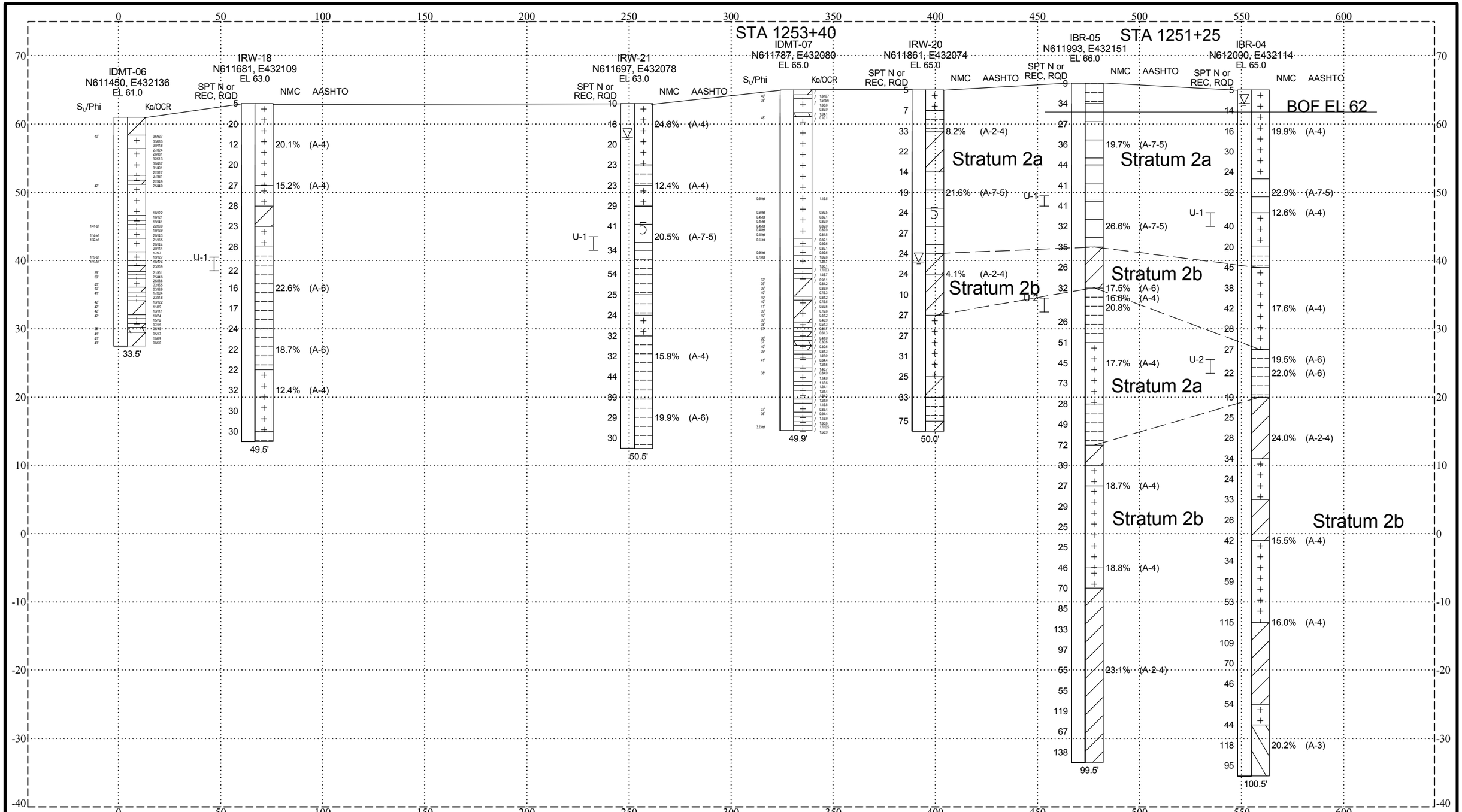
Title: Summary of Boring Data

Retaining Wall 8

Figure No. A-4e

Drawn: CLM | Approved: EMK | Date: 1/9/09 | Comm. No. 103-059-27U

DEL DOT AASHTO ALL DE I95 GINT FILE.GPJ RKK_CURRENT.GDT 1/9/09



AASHTO SOIL KEY

A	A-1-a	5	A-2-5		A-5		A-8
B	A-1-b		A-2-6		A-6		Asphalt
	A-3	7	A-2-7	5	A-7-5		FILL
	A-2-4	+ + +	A-4		A-7-6		Decomposed Rock

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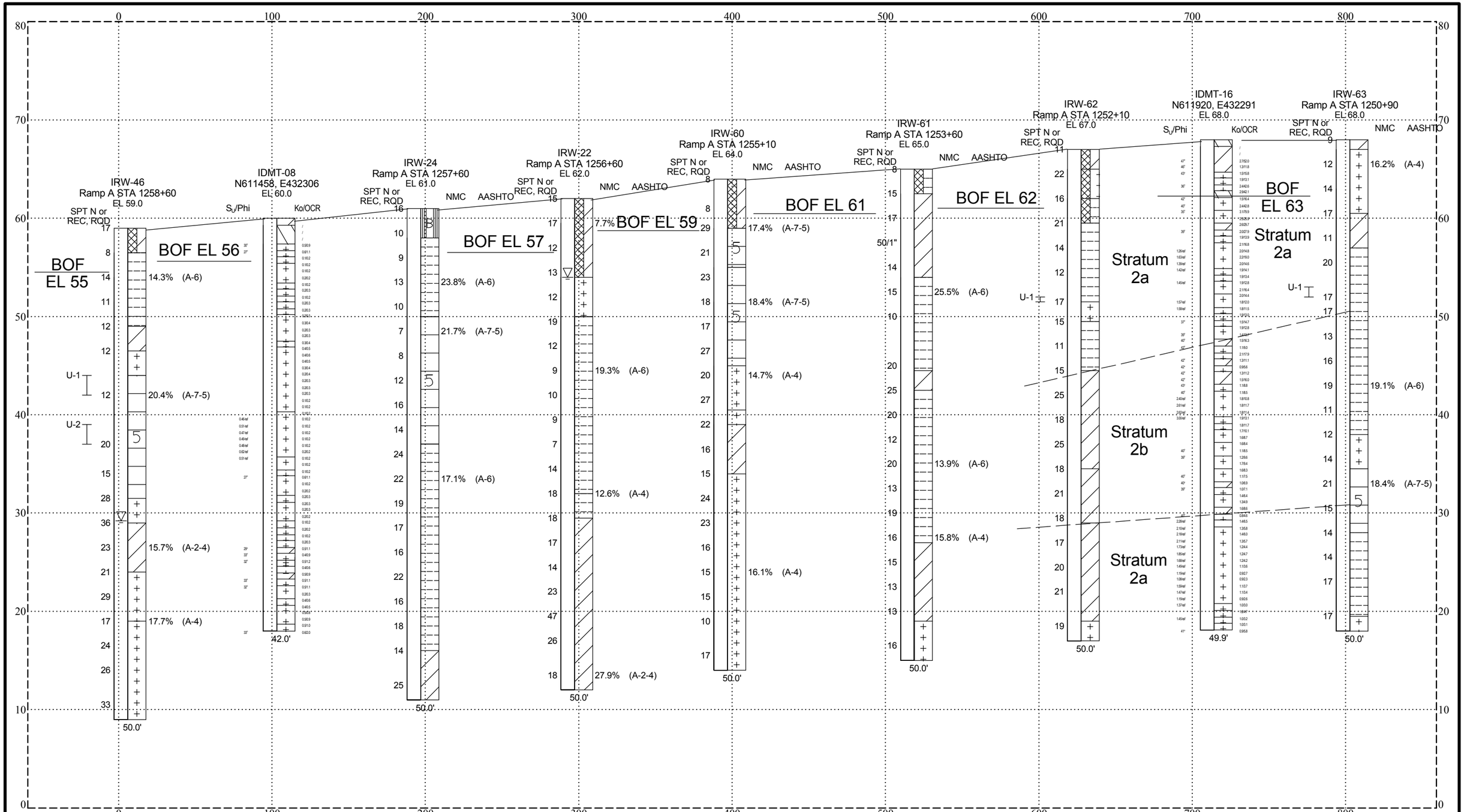
Title: Summary of Boring Data

Retaining Wall 7 and 8 (for Settlement)

Figure No. A-4f

Drawn: SAB | Approved: EMK | Date: 1/8/09 | Comm. No. 103-059-27U

DEL DOT AASHTO ALL DE I95 GINT FILE.GPJ RKK_CURRENT.GDT 1/8/09



AASHTO SOIL KEY

A	A-1-a	5	A-2-5		A-5		A-8
B	A-1-b		A-2-6		A-6		Asphalt
	A-3	7	A-2-7	5	A-7-5		FILL
	A-2-4	+ + +	A-4		A-7-6		Decomposed Rock

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Baltimore, MD 21217
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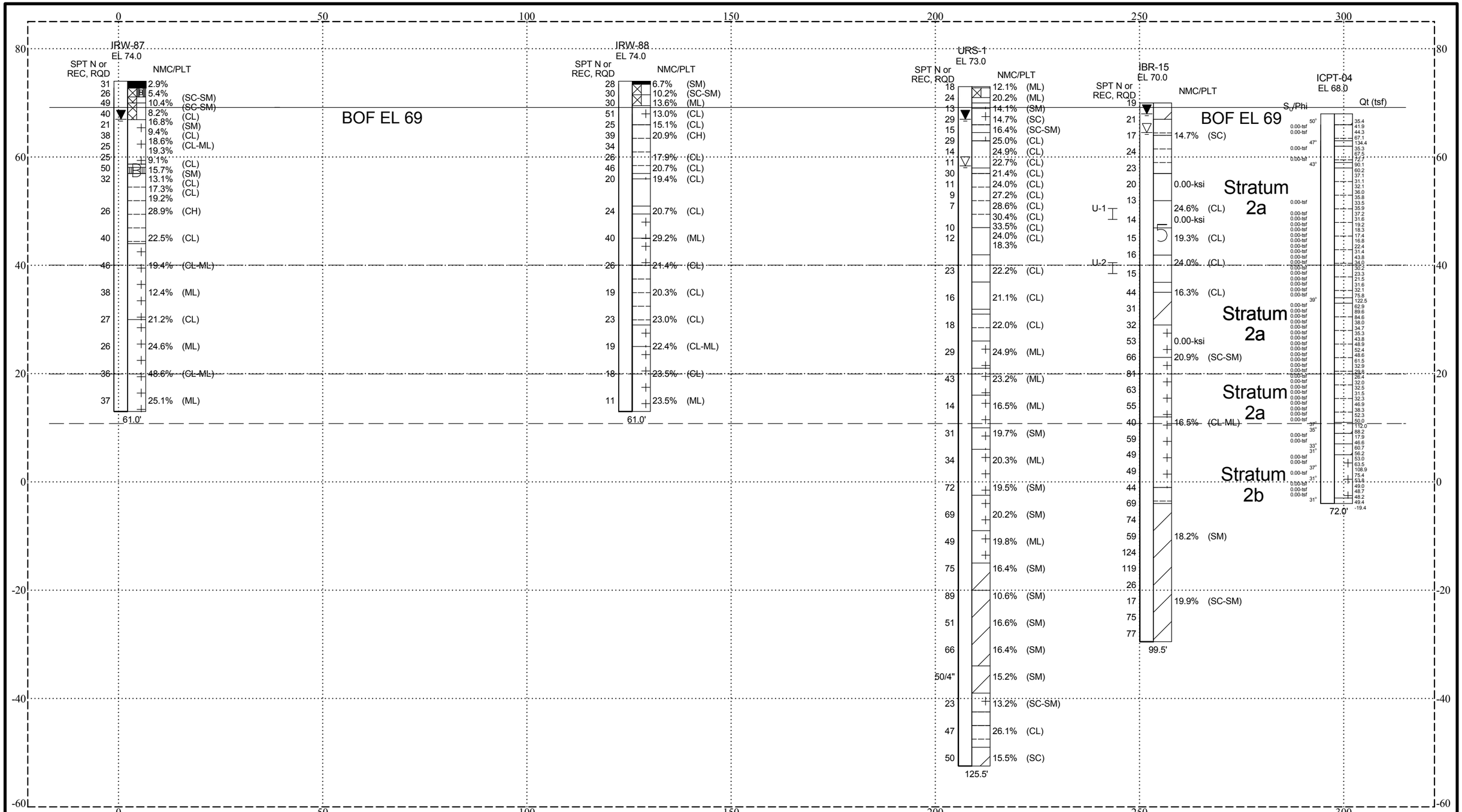
Title: Summary of Boring Data

Retaining Wall 9

Figure No. A-4g

Drawn: CLM | Approved: EMK | Date: 1/7/09 | Comm. No. 103-059-27U

DEL DOT AASHTO ALL DE I95 GINT FILE.GPJ RKK_CURRENT.GDT 1/7/09



USCS SOIL KEY

GW	SW	ML	OL	
GP	SP	MH	OH	
GM	SM	CL	FILL	
GC	SC	CH	Decomposed Rock	

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(410) 728-2900

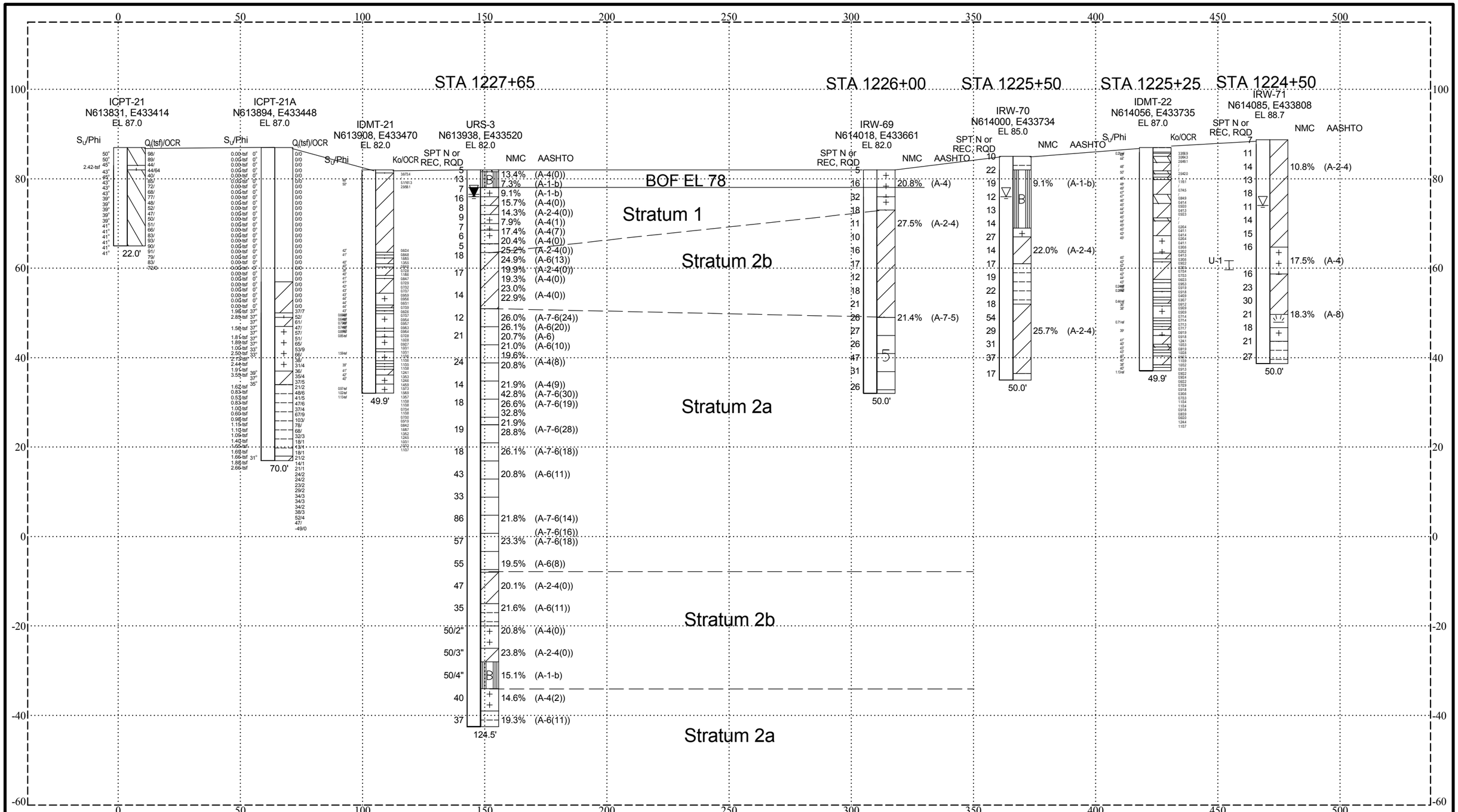
Title: Summary of Boring Data

Retaining Wall 10

Figure No. A-4h

Drawn: CLM | Approved: EMK | Date: 1/26/09 | Comm. No. 103-059-27U

RKK FENCE - USCS (DEFAULT) ALL DE I95 GINT FILE.GPJ RKK_CURRENT.GDT 1/26/09



AASHTO SOIL KEY

A	A-1-a	5	A-2-5		A-5		A-8
B	A-1-b		A-2-6		A-6		Asphalt
	A-3	7	A-2-7	5	A-7-5		FILL
	A-2-4	+ + +	A-4		A-7-6		Decomposed Rock

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Baltimore, MD 21217
(410) 728-2900

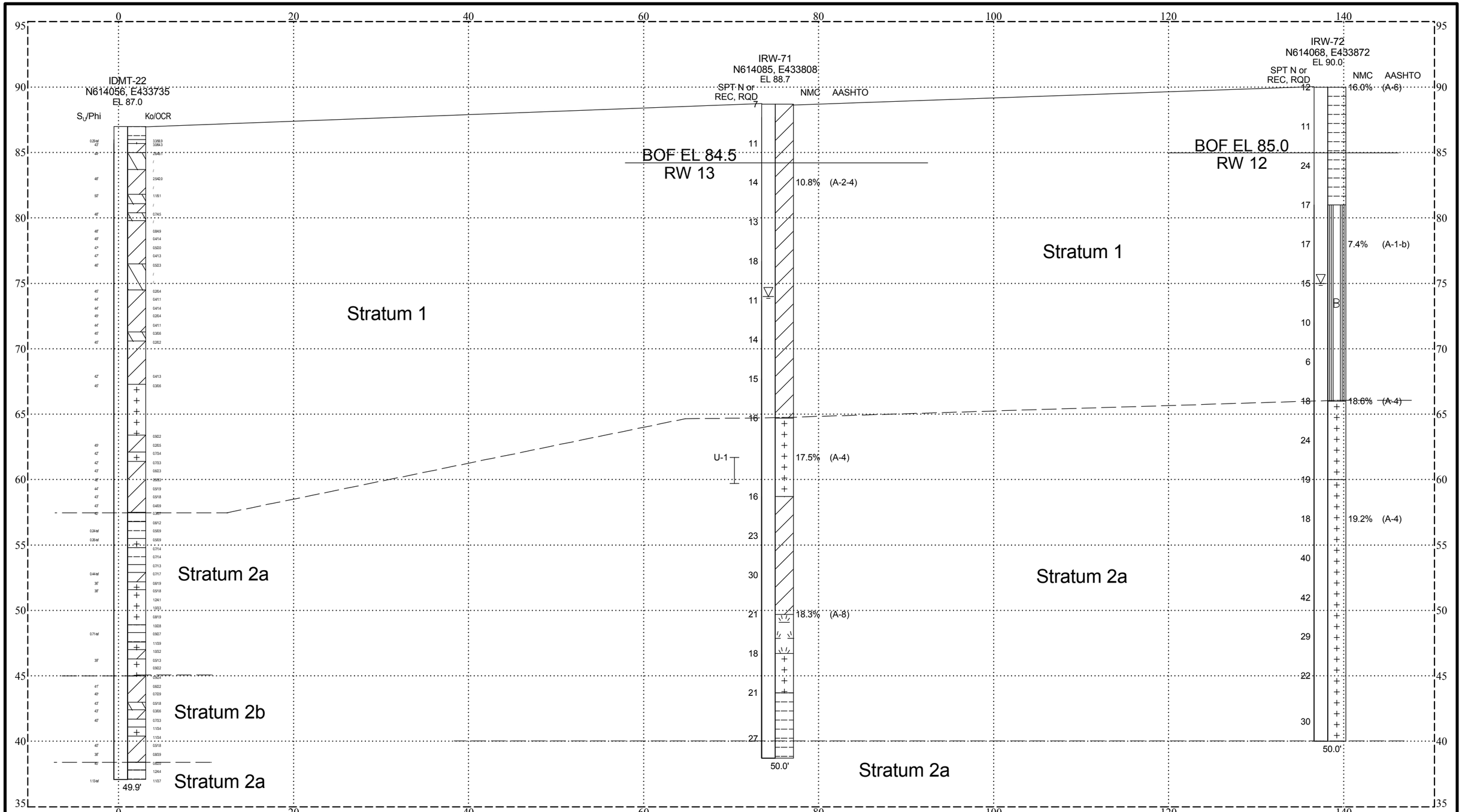
Title: Summary of Boring Data

Retaining Walls 12 and 13

Figure No. A-4i

Drawn: CLM | Approved: EMK | Date: 1/8/09 | Comm. No. 103-059-27U

DEL DOT AASHTO ALL DE I95 GINT FILE.GPJ RKK_CURRENT.GDT 1/8/09



AASHTO SOIL KEY

A	A-1-a	5	A-2-5		A-5		A-8
B	A-1-b		A-2-6		A-6		Asphalt
	A-3	7	A-2-7	5	A-7-5		FILL
	A-2-4	+ + +	A-4		A-7-6		Decomposed Rock

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Consulting Engineers
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Baltimore, MD 21217
(410) 728-2900

Title: Summary of Boring Data

Retaining Walls 12 and 13 STA 1224+00

Figure No. A-4j

Drawn: CLM | Approved: EMK | Date: 1/9/09 | Comm. No. 103-059-27U

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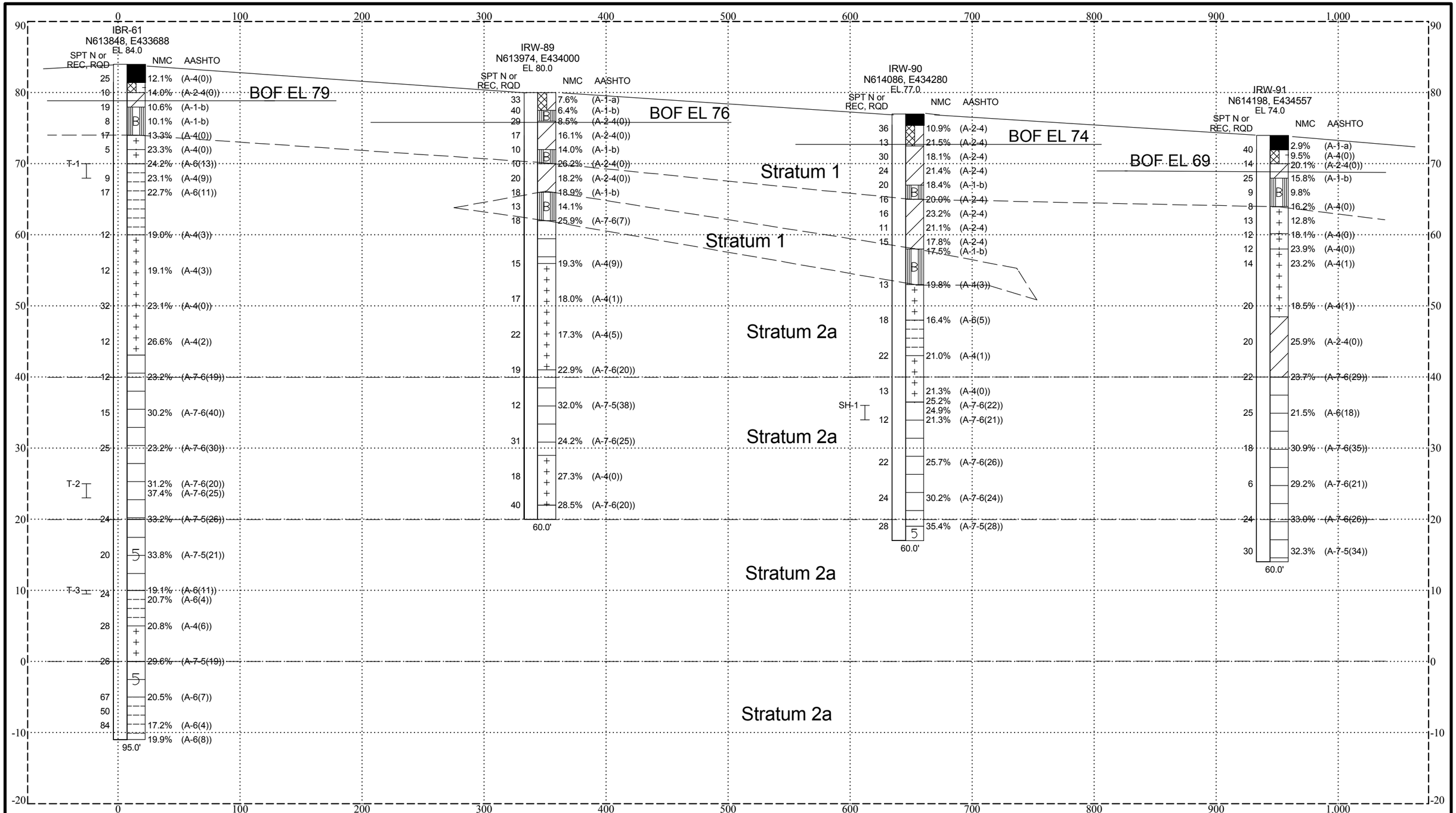

AASHTO SOIL KEY

A	A-1-a	5	A-2-5		A-5		A-8
B	A-1-b		A-2-6		A-6		Asphalt
	A-3	7	A-2-7	5	A-7-5		FILL
	A-2-4	+ + + + + +	A-4		A-7-6		Decomposed Rock

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Consulting Engineers
81 Mosher Street,
Baltimore, MD 21217
(410) 728-2900

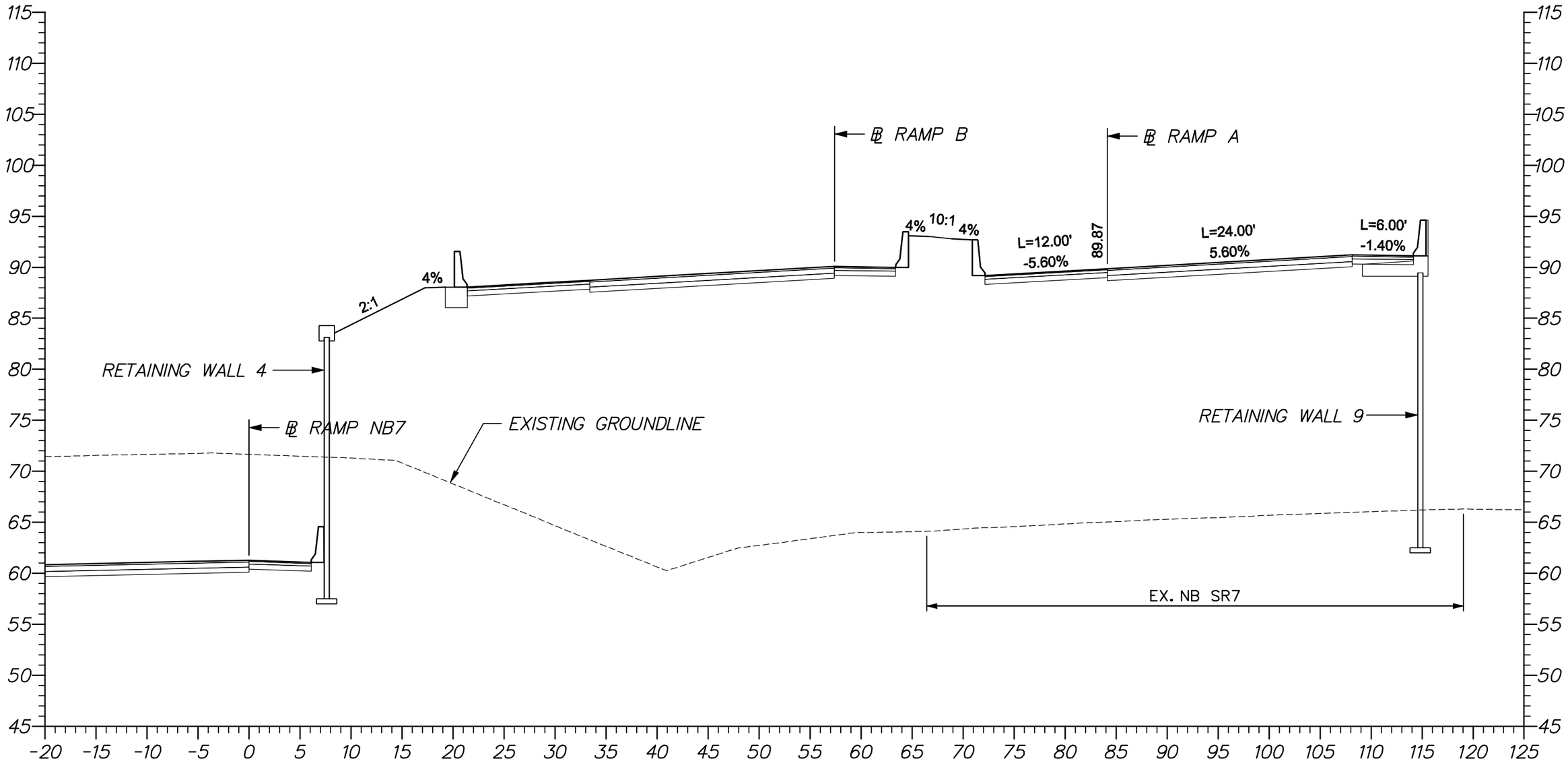
Title: Summary of Boring Data

Retaining Wall 14 and 15

Figure No. A-4k

Drawn: CLM | Approved: EMK | Date: 1/7/09 | Comm. No. 103-059-27U

DEL DOT AASHTO ALL DE I95 GINT FILE.GPJ RKK_CURRENT.GDT 1/7/09



GRAPHIC SCALE
0 10 20
SCALE: 1"=10'

RUMMEL, KLEPPER & KAHL, LLP
CONSULTING ENGINEERS
BALTIMORE, MARYLAND

I 95 / SR 1 INTERCHANGE
RETAINING WALL 4 TYPICAL CROSS SECTION
SR 7 NB STA. 632+50

FIGURE NO. A-5a

DRAWN BY	APPROVED BY	SCALE	DATE	COMMISSION. NO.
KDT	EMK	1"=10'-0"	FEBRUARY 2009	103-059-27U

2/9/2009
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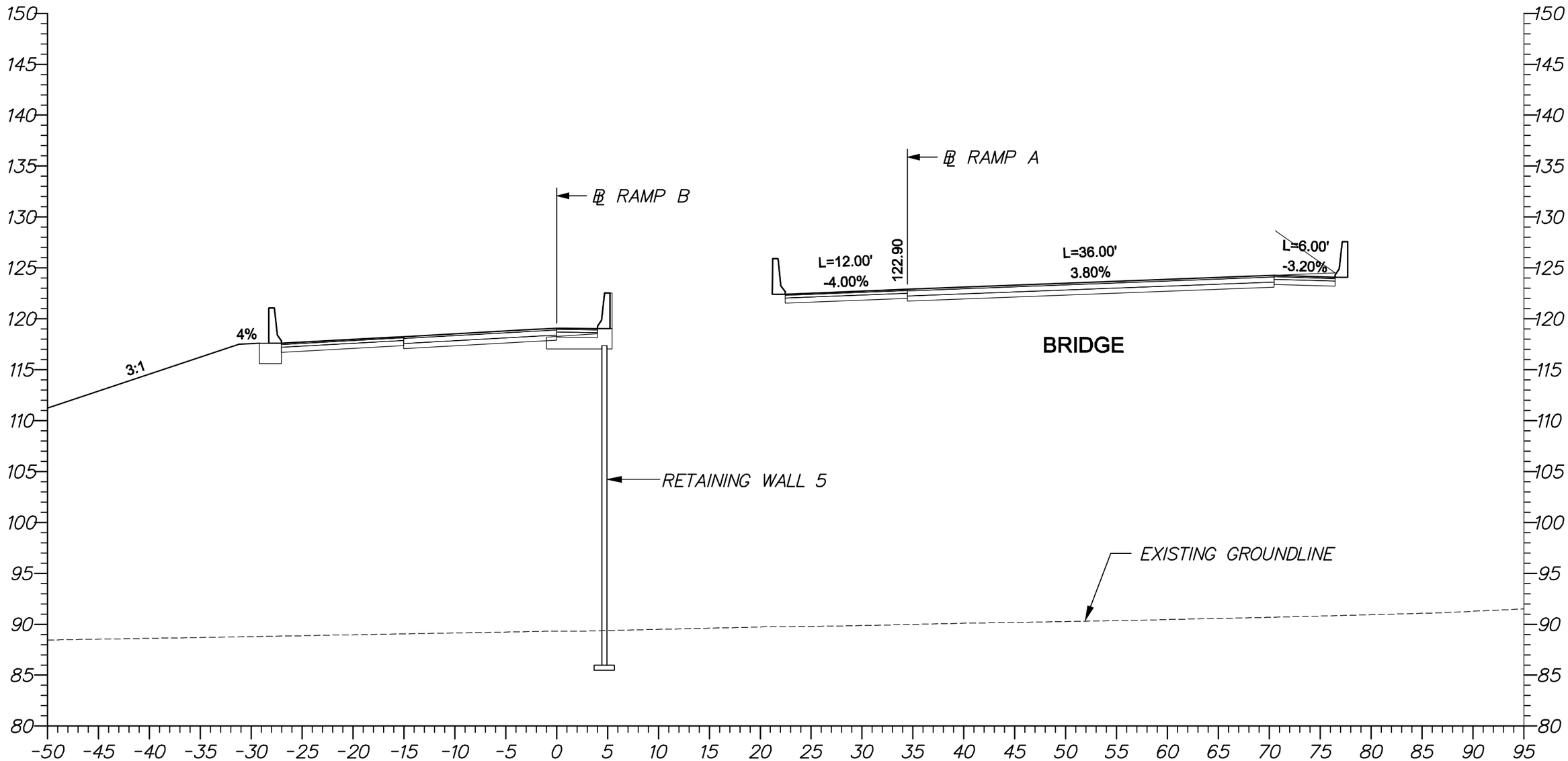
pcf: 03059_SRWALL



GRAPHIC SCALE
0 10 20
SCALE: 1"=10'

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I95 / SR 1 INTERCHANGE
RETAINING WALL 5 TYPICAL CROSS SECTION
RAMP B STA. 450+50

FIGURE NO. A-5b

DRAWN BY	APPROVED BY	SCALE	DATE	COMMISSION. NO.
KDT	EMK	1"=10'-0"	FEBRUARY 2009	103-059-27U

2/9/2009
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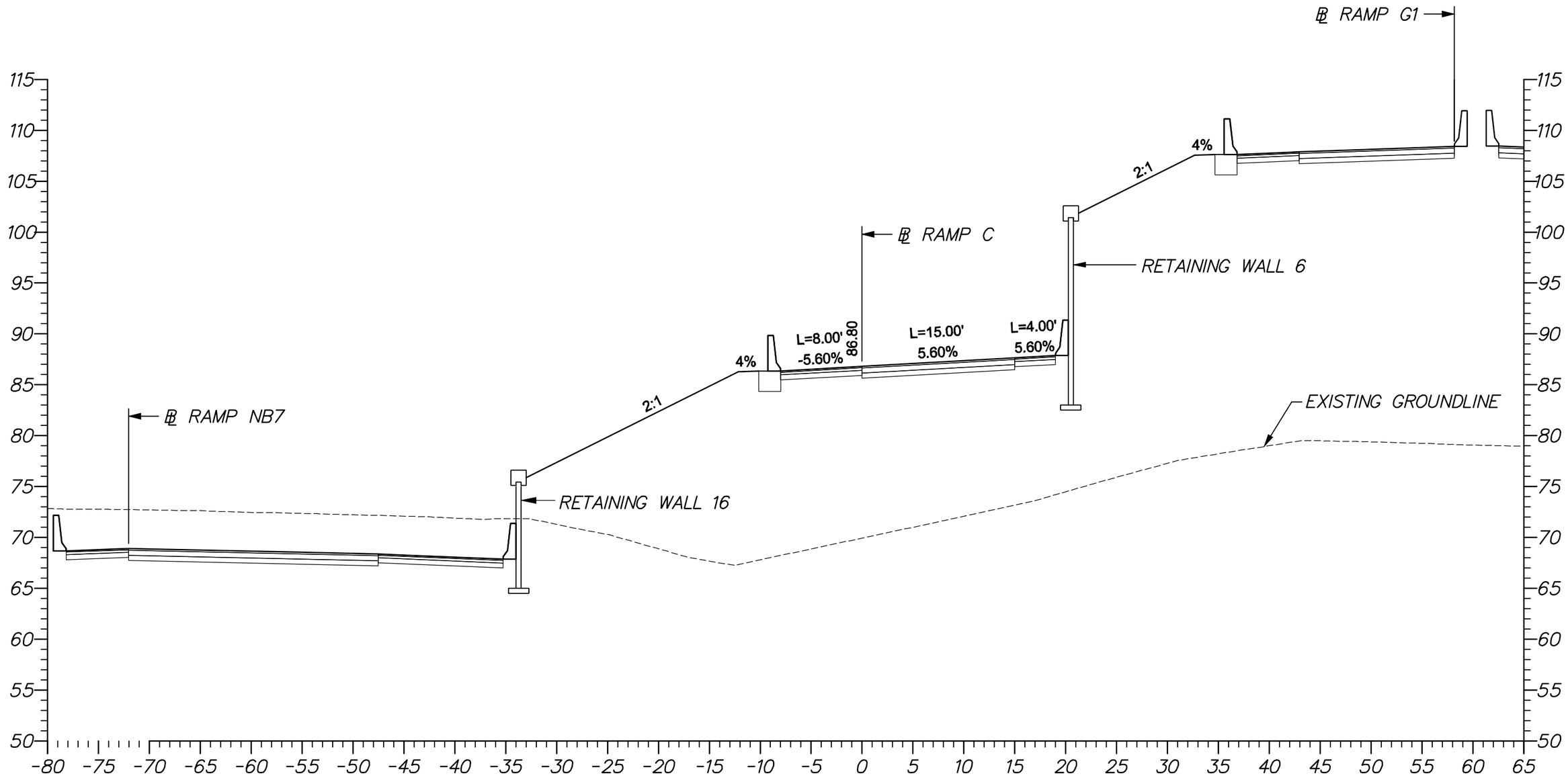

GRAPHIC SCALE

0 10 20

SCALE: 1"=10'

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195 / SR 1 INTERCHANGE
RETAINING WALL 6 TYPICAL CROSS SECTION
RAMP C STA. 1118+00

FIGURE NO. A-5c

DRAWN BY	APPROVED BY	SCALE	DATE	COMMISSION. NO.
KDT	EMK	1"=10'-0"	FEBRUARY 2009	103-059-27U

2/9/2009
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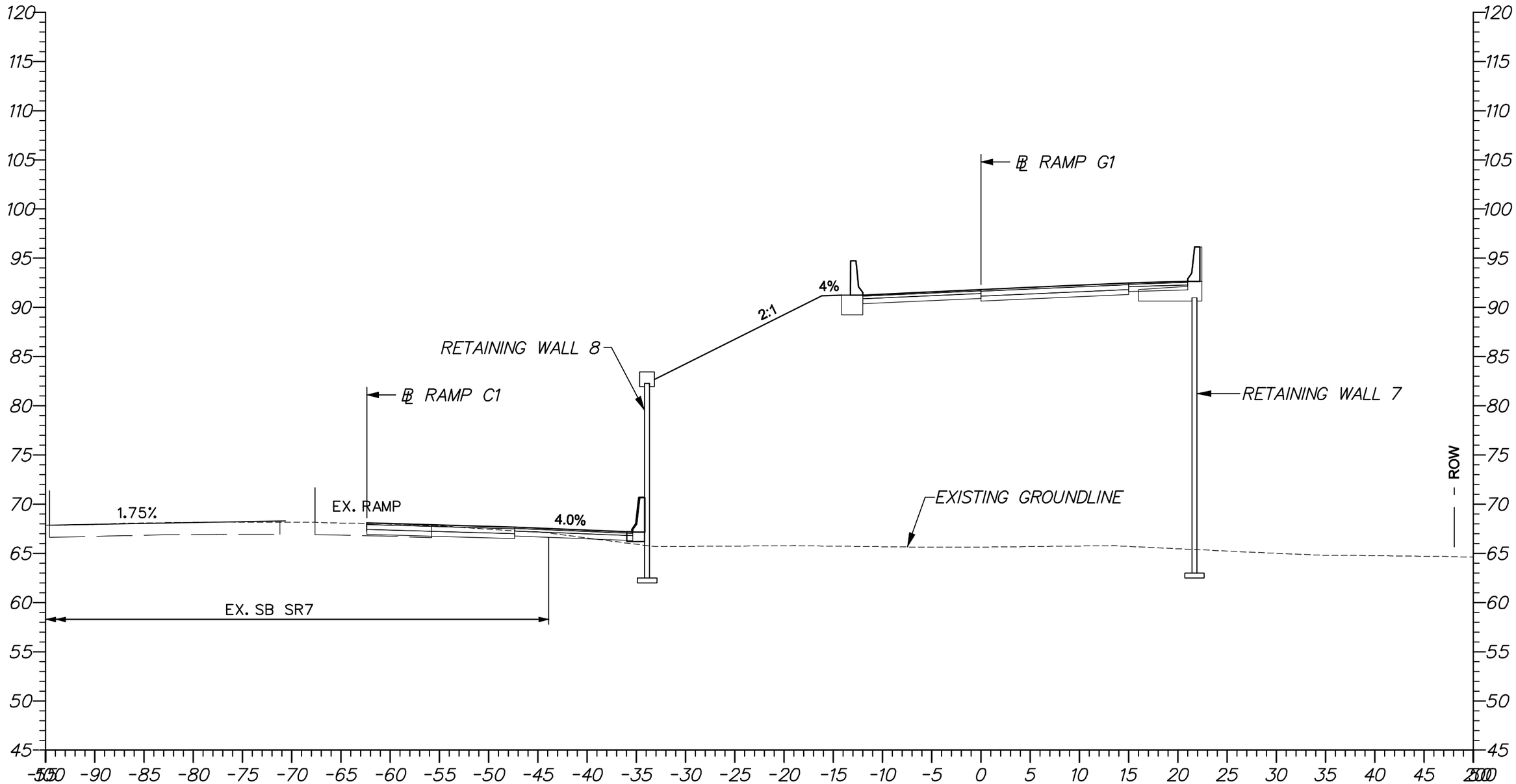

GRAPHIC SCALE
0 10 20
SCALE: 1"=10'

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I 95 / SR 1 INTERCHANGE
RETAINING WALL 7 TYPICAL CROSS SECTION
RAMP G1 STA. 1318+00

FIGURE NO. A-5d

DRAWN BY	APPROVED BY	SCALE	DATE	COMMISSION. NO.
KDT	EMK	1"=10'-0"	FEBRUARY 2009	103-059-27U

2/6/2009
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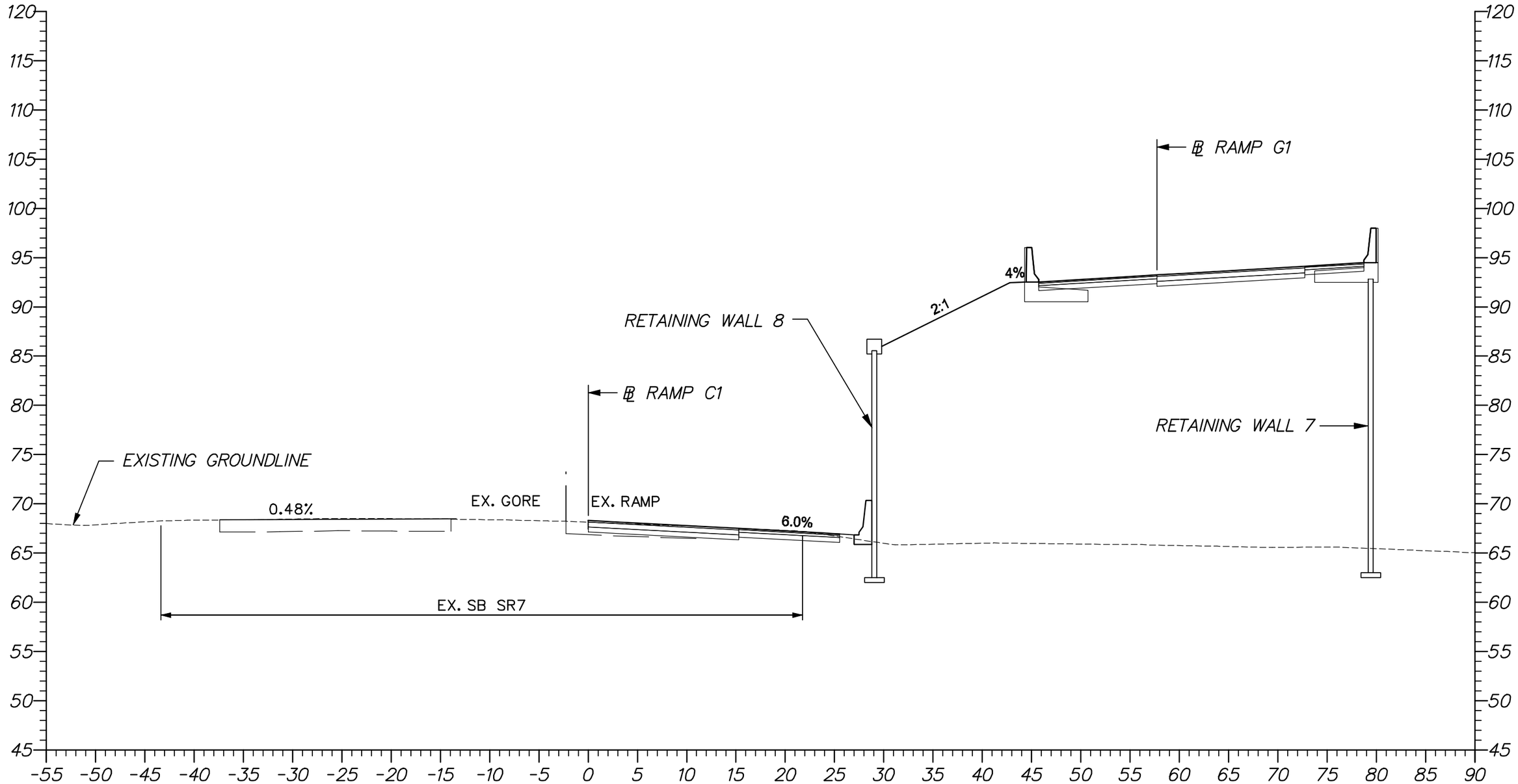

GRAPHIC SCALE
0 10 20
SCALE: 1"=10'

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I95 / SR 1 INTERCHANGE
RETAINING WALL 8 TYPICAL CROSS SECTION
RAMP C1 STA. 1815+50

FIGURE NO. A-5e

DRAWN BY	APPROVED BY	SCALE	DATE	COMMISSION. NO.
KDT	EMK	1"=10'-0"	FEBRUARY 2009	103-059-27U

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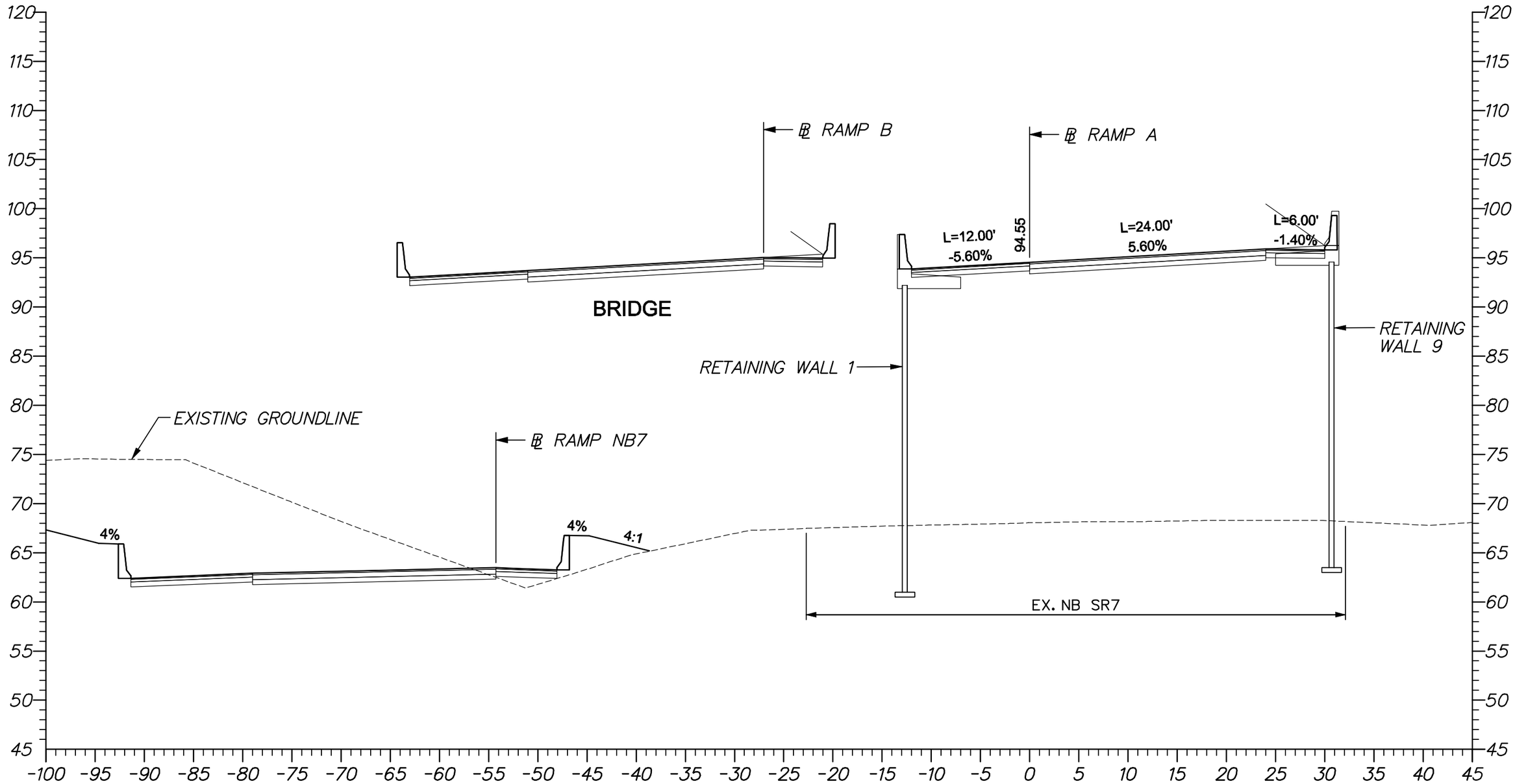

GRAPHIC SCALE
0 10 20
SCALE: 1"=10'

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I95 / SR 1 INTERCHANGE
RETAINING WALL 9 TYPICAL CROSS SECTION
RAMP A STA. 1251+00

FIGURE NO. A-5f

DRAWN BY	APPROVED BY	SCALE	DATE	COMMISSION. NO.
KDT	EMK	1"=10'-0"	FEBRUARY 2009	103-059-27U

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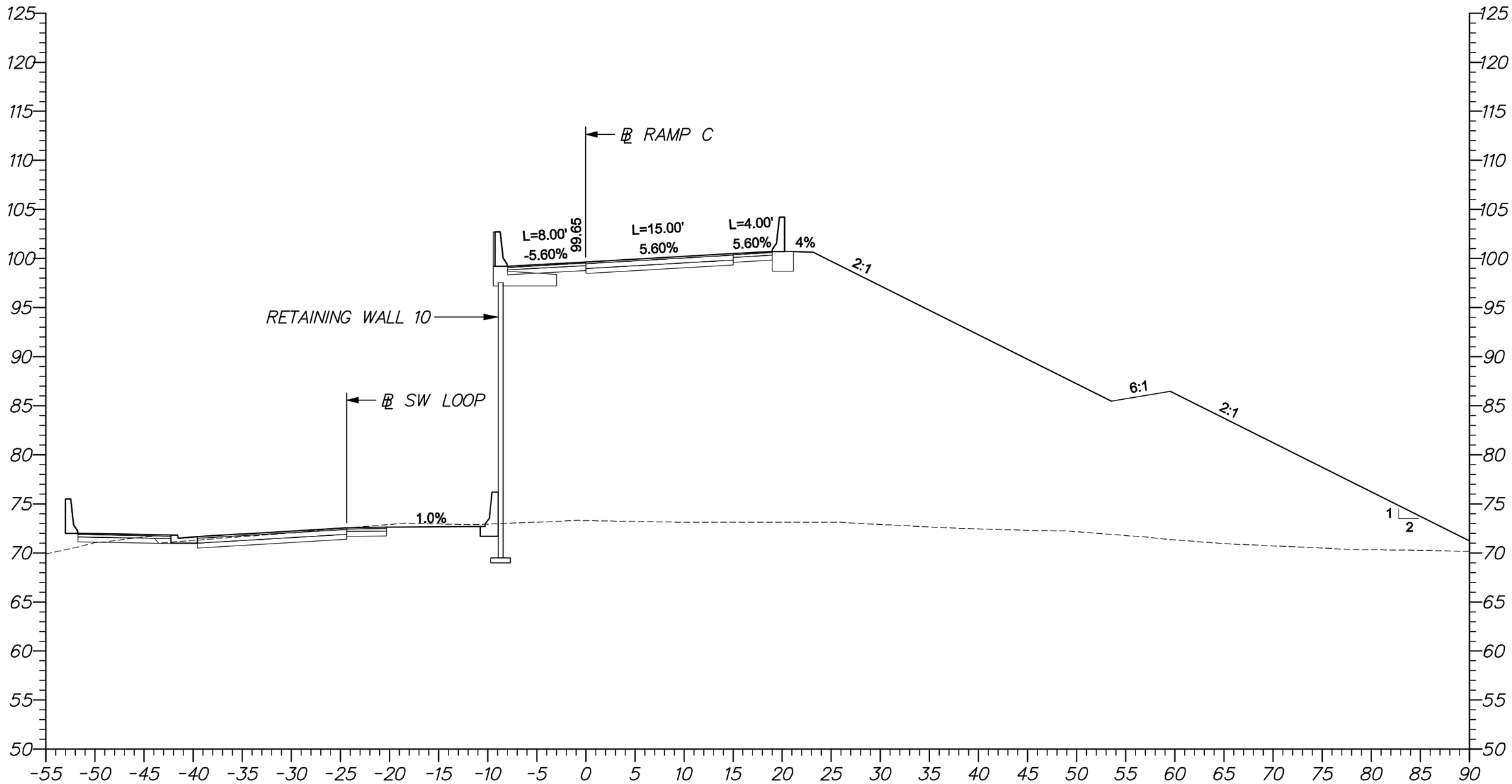

GRAPHIC SCALE

0 10 20

SCALE: 1"=10'

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I95 / SR 1 INTERCHANGE

RETAINING WALL 10 TYPICAL CROSS SECTION

RAMP C STA. 1114+00

FIGURE NO. A-5g

DRAWN BY	APPROVED BY	SCALE	DATE	COMMISSION. NO.
KDT	EMK	1"=10'-0"	FEBRUARY 2009	103-059-27U

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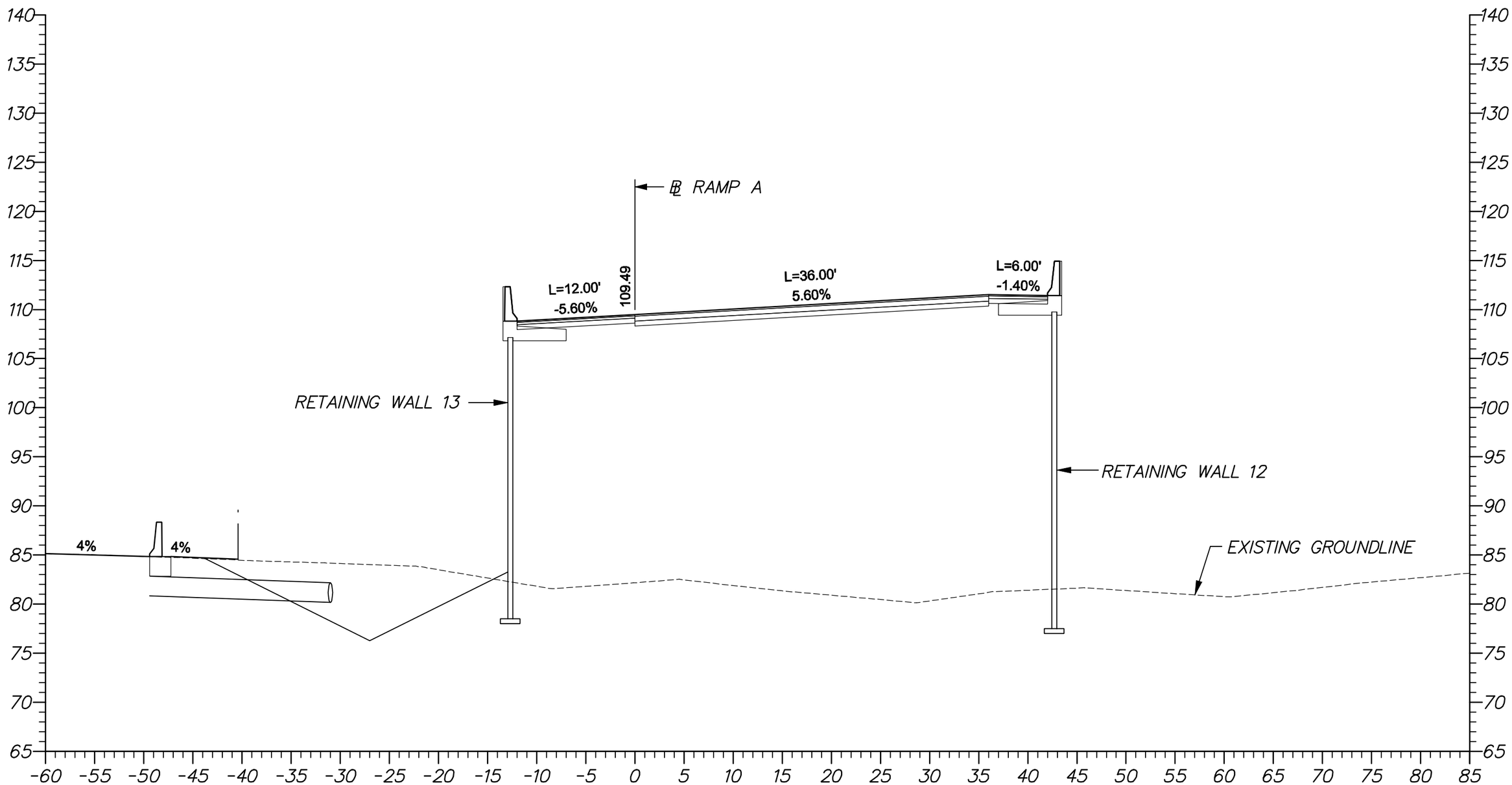

GRAPHIC SCALE
0 10 20
SCALE: 1"=10'

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I95 / SR 1 INTERCHANGE
RETAINING WALL 12 AND RETAINING WALL 13
TYPICAL CROSS SECTION
RAMP A STA. 1227+00

FIGURE NO. A-5h

DRAWN BY	APPROVED BY	SCALE	DATE	COMMISSION. NO.
KDT	EMK	1"=10'-0"	FEBRUARY 2009	103-059-27U

2/9/2009
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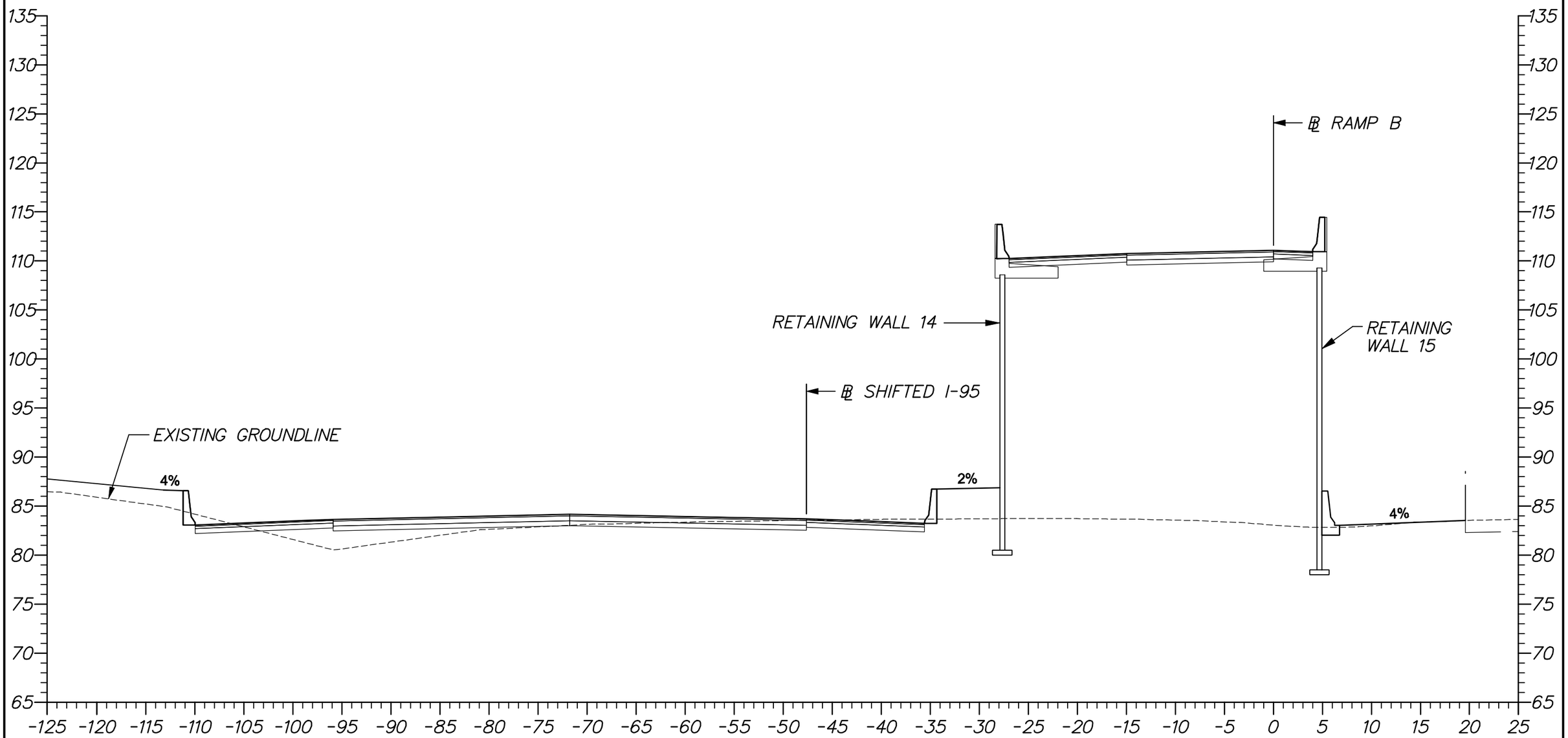
pcf: 03059_SRWALL



GRAPHIC SCALE
0 10 20
SCALE: 1"=10'

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I95 / SR 1 INTERCHANGE
RETAINING WALL 14 AND RETAINING WALL 15
TYPICAL CROSS SECTION
RAMP B 459+00

FIGURE NO.	DRAWN BY	APPROVED BY	SCALE	DATE	COMMISSION. NO.
A-5i	KDT	EMK	1"=10'-0"	OCTOBER 2008	103-059-27U

2/9/2009
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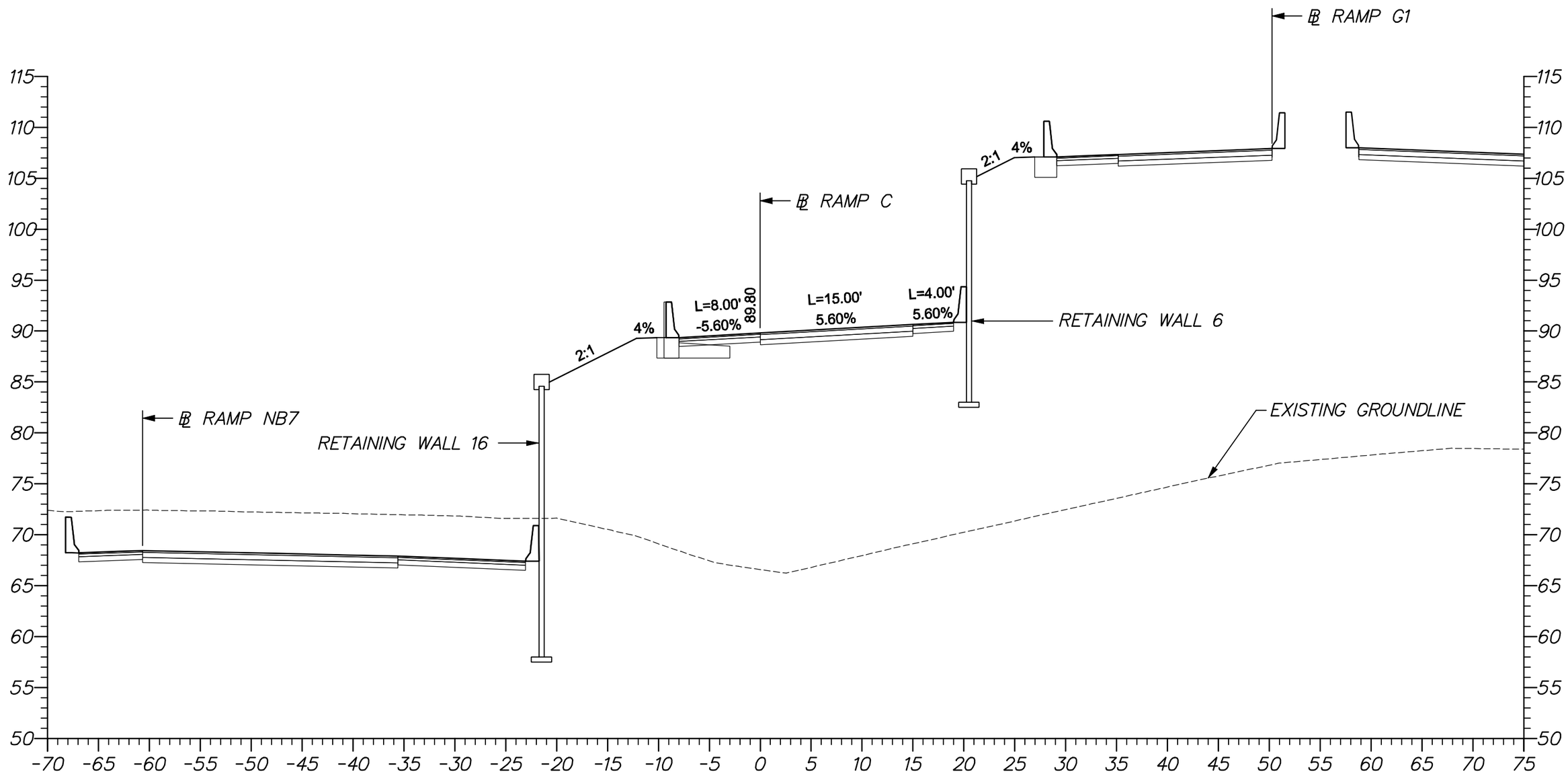

GRAPHIC SCALE
0 10 20
SCALE: 1"=10'

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I95 / SR 1 INTERCHANGE
RETAINING WALL 16 TYPICAL CROSS SECTION
RAMP C STA. 1117+50

FIGURE NO. A-5j

DRAWN BY	APPROVED BY	SCALE	DATE	COMMISSION. NO.
KDT	EMK	1"=10'-0"	FEBRUARY 2009	103-059-27U

2/9/2009
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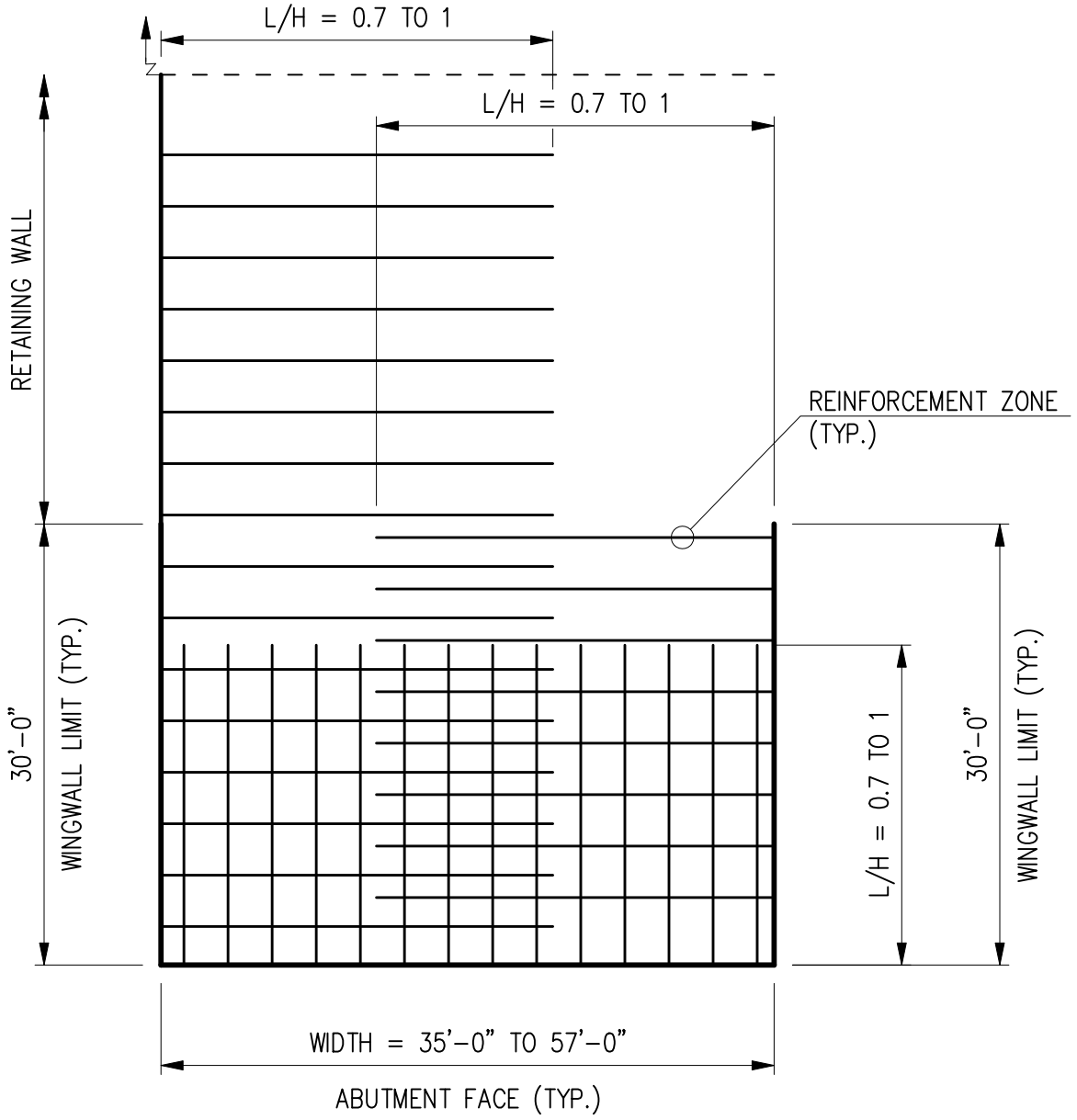

NOTES:

1. ABUTMENT HEIGHTS (H) FROM LEVELING PAD ELEVATION TO FLOW LINE RANGES FROM 30 FT TO 45 FT.
2. L = LENGTH OF REINFORCEMENT ZONE
3. H = HEIGHT OF MSE WALL
4. REINFORCEMENT ZONES OF WINGWALLS AND RETAINING WALL DO NOT OVERLAP IN ALL AREA.

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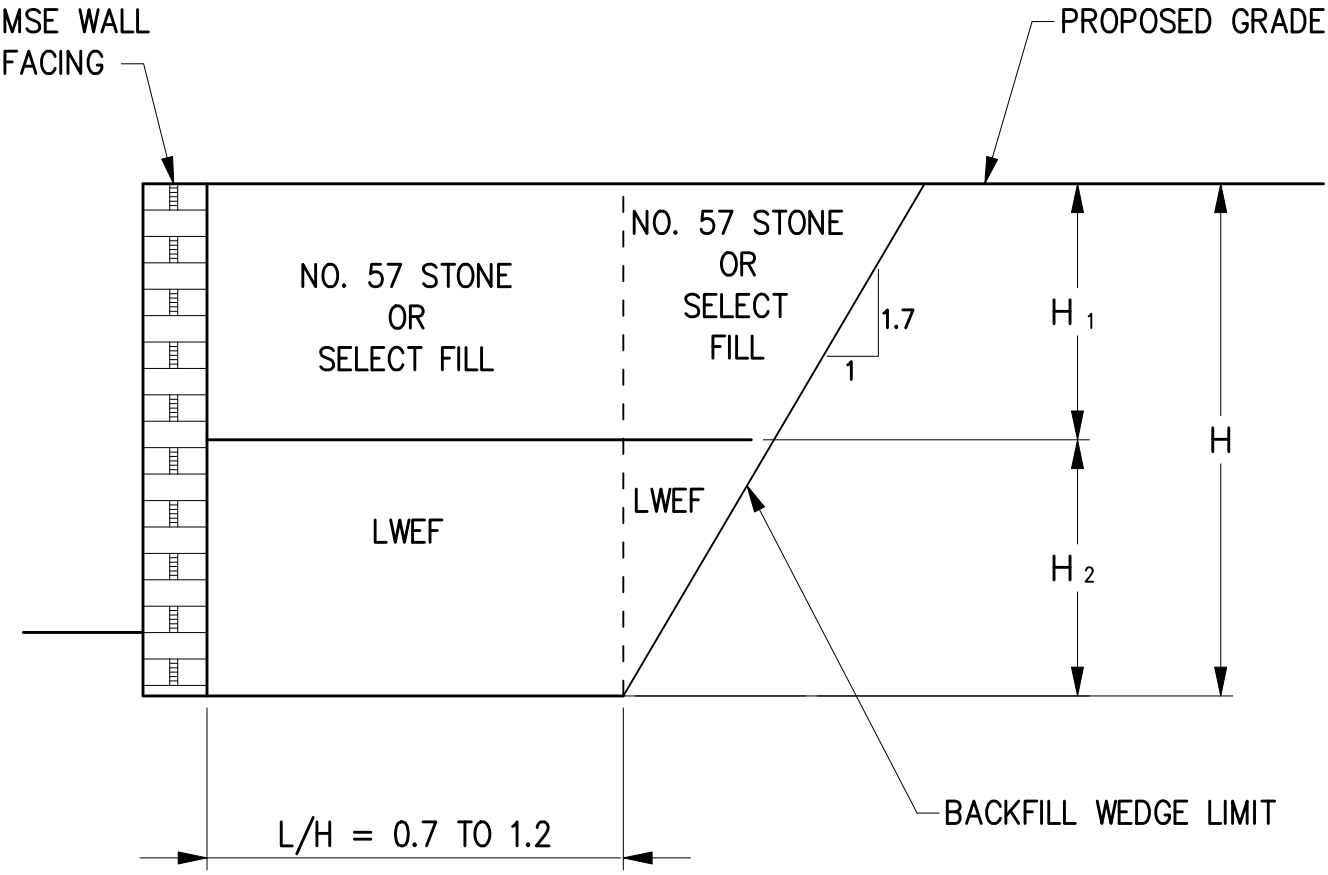
ABUTMENT REINFORCEMENT ZONE DETAIL
PLAN VIEW

FIGURE NO. A-6

DRAWN BY	APPROVED BY	SCALE	DATE	COMMISSION NO.
KDT	EMK	NOT TO SCALE	FEBRUARY 2009	103-059-27

FILE: m:\projects\2003\03059_deltmpk\Geotech\INTERCHANGE FINAL DESIGN 2008\CADD\reinforcement detail_sr1.dgn
PLOTTED: 2/4/2009



NOTES:

TRANSITION FROM COMPOSITE LWEF AND NO. 57 STONE TO ALL NO. 57 STONE WHEN $H < H_1$.

LWEF = LIGHT WEIGHT ENGINEERED FILL

H_1 = HEIGHT OF NO. 57 STONE OR SELECT FILL

H_2 = HEIGHT OF LWEF

L = LENGTH OF REINFORCEMENT ZONE

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COMPOSITE LWEF AND NO. 57 STONE OR SELECT FILL DETAIL CROSS SECTION

FIGURE NO. A-7

DRAWN BY	APPROVED BY	SCALE	DATE	COMMISSION NO.
KDT	EMK	NOT TO SCALE	FEBRUARY 2009	103-059-27

PLOTTED: 2/4/2009
FILE: m:\projects\2003\03059_deltmpk\Geotech\INTERCHANGE FINAL DESIGN 2008\CADD\CLWEF_SR1.dgn