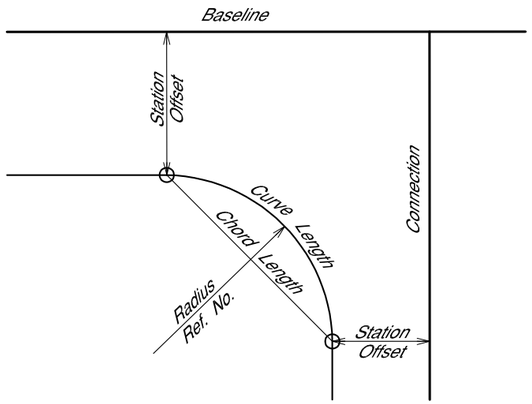
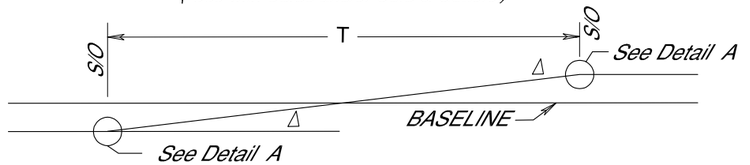
LOCATION (REF. NO.)	BASELINE		CONNECTION		RADIUS LENGTH	CHORD LENGTH	CURVE LENGTH
Sheet-Item	Station	Offset	Station	Offset	Feet	Feet	Feet
3-1	123+49.83	0.00'	123+53.29	8.62' RT	5.00	9.28	11.90
3-2	123+86.50	16.28' RT	123+93.47	13.50' RT	10.00	7.47	7.66
4-1	16+92.33	0.00'	126+94.33	2.00' RT	2.00	2.83	3.14
4-2	326+91.13	11.53' LT	326+93.13	13.54' LT	2.00	2.83	3.15
4-3	127+04.33	3.58' RT	127+06.98	1.69' RT	2.00	3.25	3.80
4-4	127+06.98	1.69' RT	327+05.78	13.52' LT	20.00	37.86	49.68
4-5	327+03.13	15.41' LT	327+05.78	13.52' LT	2.00	3.25	3.80
4-6	327+82.22	6.71' LT	327+84.01	14.28' LT	4.00	7.78	10.68
4-7	327+82.22	6.71' LT	328+04.90	1.30' LT	50.00	23.31	23.53
4-8	328+19.69	41.80' LT	328+19.76	40.30' LT	0.75	1.50	2.36
5-1	338+13.90	14.30' LT	338+13.91	16.30' LT	1.00	2.00	3.14
5-2	338+20.06	53.30' LT	338+40.97	48.72' LT	50.00	11.35	11.57
5-3	338+39.90	41.30' LT	338+40.97	48.72' LT	4.00	7.82	10.87
5-4	338+94.71	8.13' LT	338+96.76	15.59' LT	4.00	7.73	10.49
5-5	338+94.71	8.13' LT	339+19.94	1.30' LT	50.00	15.55	15.61
5-6	339+29.42	40.30' LT	339+29.41	42.30' LT	1.00	2.00	3.14
7-1	350+12.72	14.30' LT	350+12.74	16.30' LT	1.00	2.00	3.14
7-2	350+15.07	53.30' LT	350+36.18	48.71' LT	50.00	21.60	21.78
7-3	350+34.46	41.08' LT	350+36.18	48.71' LT	4.00	7.82	10.88
7-4	350+89.09	7.95' LT	350+90.96	15.50' LT	4.00	7.78	10.71
7-5	350+89.09	7.95' LT	351+16.54	1.30' LT	60.00	14.99	15.03
7-6	351+12.10	40.29' LT	351+12.14	42.32' LT	1.02	2.03	3.21
7-7	355+56.88	41.21' LT	355+56.88	41.21' LT	1.00	1.43	1.59
7-8	355+54.99	13.23' LT	355+54.70	15.23' LT	1.00	2.00	3.14
7-9	256+26.08	49.56' LT	256+51.08	25.00' LT	25.00	35.04	38.83
7-10	256+46.63	11.00' LT	256+46.64	13.00' LT	1.00	2.00	3.14
7-11	356+44.03	11.29' LT	356+46.53	14.00' LT	2.50	3.68	4.14
8-1	262+88.60	25.00' LT	263+11.52	50.36' LT	25.00	35.25	39.12
8-2	262+95.33	0.00'	263+05.49	9.73' RT	10.00	1402	15.53
8-3	263+02.52	12.83' RT	263+05.49	9.73' RT	3.00	4.25	4.73
8-4	363+02.31	13.00' LT	363+05.33	9.99' LT	3.00	4.24	4.71
8-5	362+95.29	0.00'	363+05.33	9.99' LT	10.00	14.14	15.71
8-6	263+68.35	58.33' LT	263+93.65	37.00' LT	25.00	32.96	35.98
8-7	364+11.27	9.69' LT	264+12.50	13.91' RT	6.43	12.86	20.19



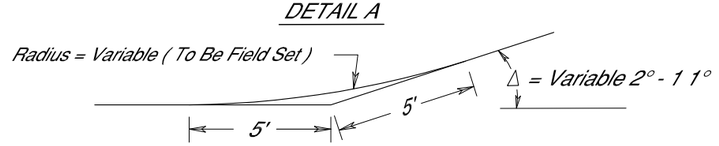
RADIAL OFFSETS

TYPICAL STRAIGHT - LINE TAPER LANE

(Use with Curbs and/or Curb & Gutters)



DETAIL A



T - See plans for Length of T.

S/O - See plans for Stations and Offsets.

60% PLANS
NOT FOR CONSTRUCTION

No.	REVISIONS	DATE	BY

THE LANE CONSTRUCTION CORPORATION

STV Incorporated
Engineers / Architects / Planners / Construction Managers
2722 Merrilee Drive, Suite 300, Fairfax, VA 22031 (571)633-2220

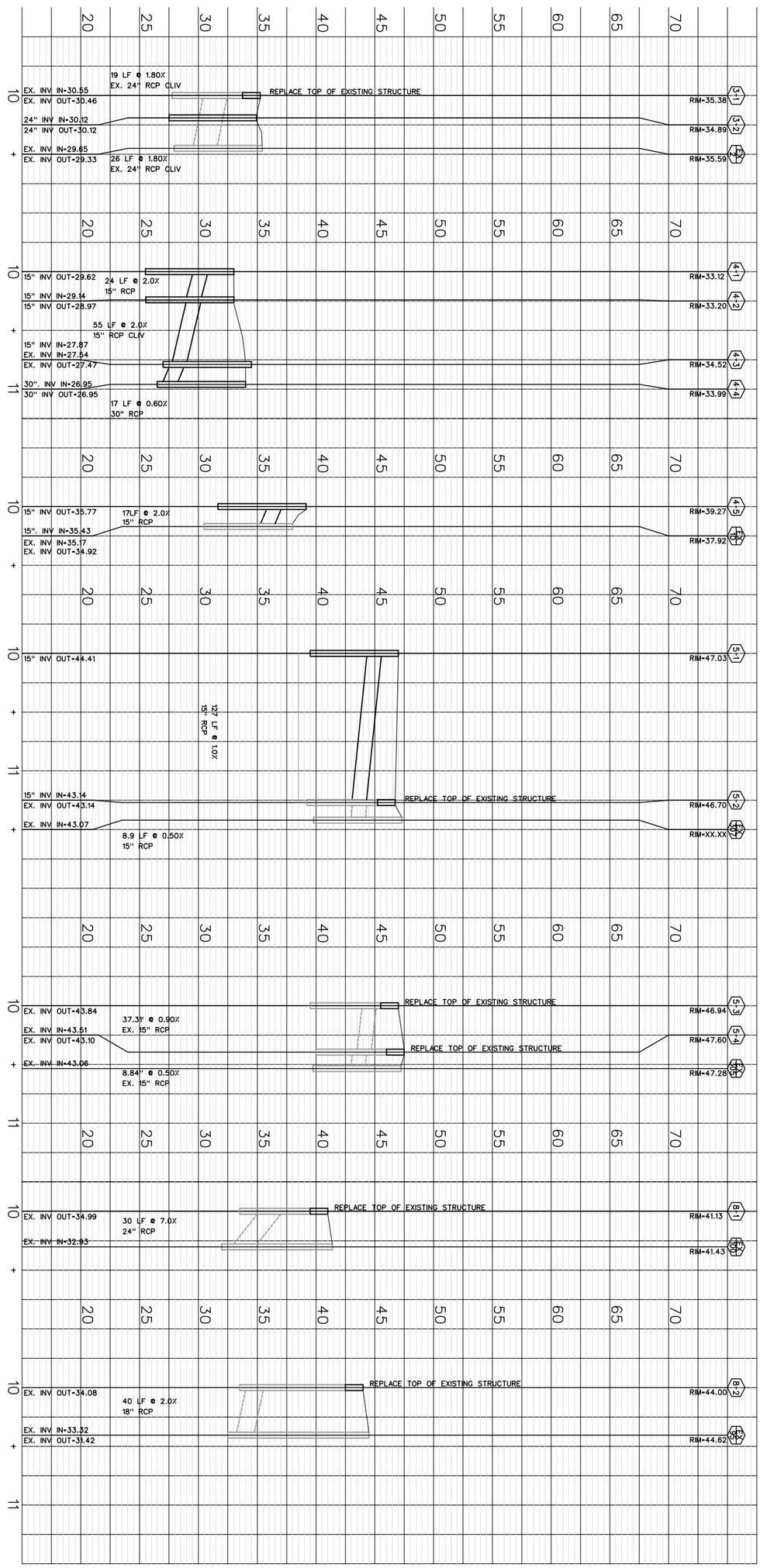
CITY OF ALEXANDRIA VIRGINIA

PROJECT NO. 2515453
DATE 03/28/12
SCALE:
DESIGNED BY: G.L.M.
DRAWN BY: G.L.M.
CHECKED BY: M.W.R.

RADIAL OFFSETS

JEFFERSON DAVIS HIGHWAY
ROUTE 1 FROM EAST GLEBE
ROAD TO POTOMAC AVENUE
BRT IMPROVEMENTS
DESIGN/BUILD
CITY OF ALEXANDRIA VIRGINIA

SHEET NUMBER
2D



60% PLANS
NOT FOR CONSTRUCTION

SHEET NUMBER
2E

JEFFERSON DAVIS HIGHWAY
ROUTE 1 FROM EAST GLEBE ROAD TO POTOMAC AVENUE
BRT IMPROVEMENTS
DESIGN/BUILD

CITY OF ALEXANDRIA VIRGINIA

STORM PROFILES

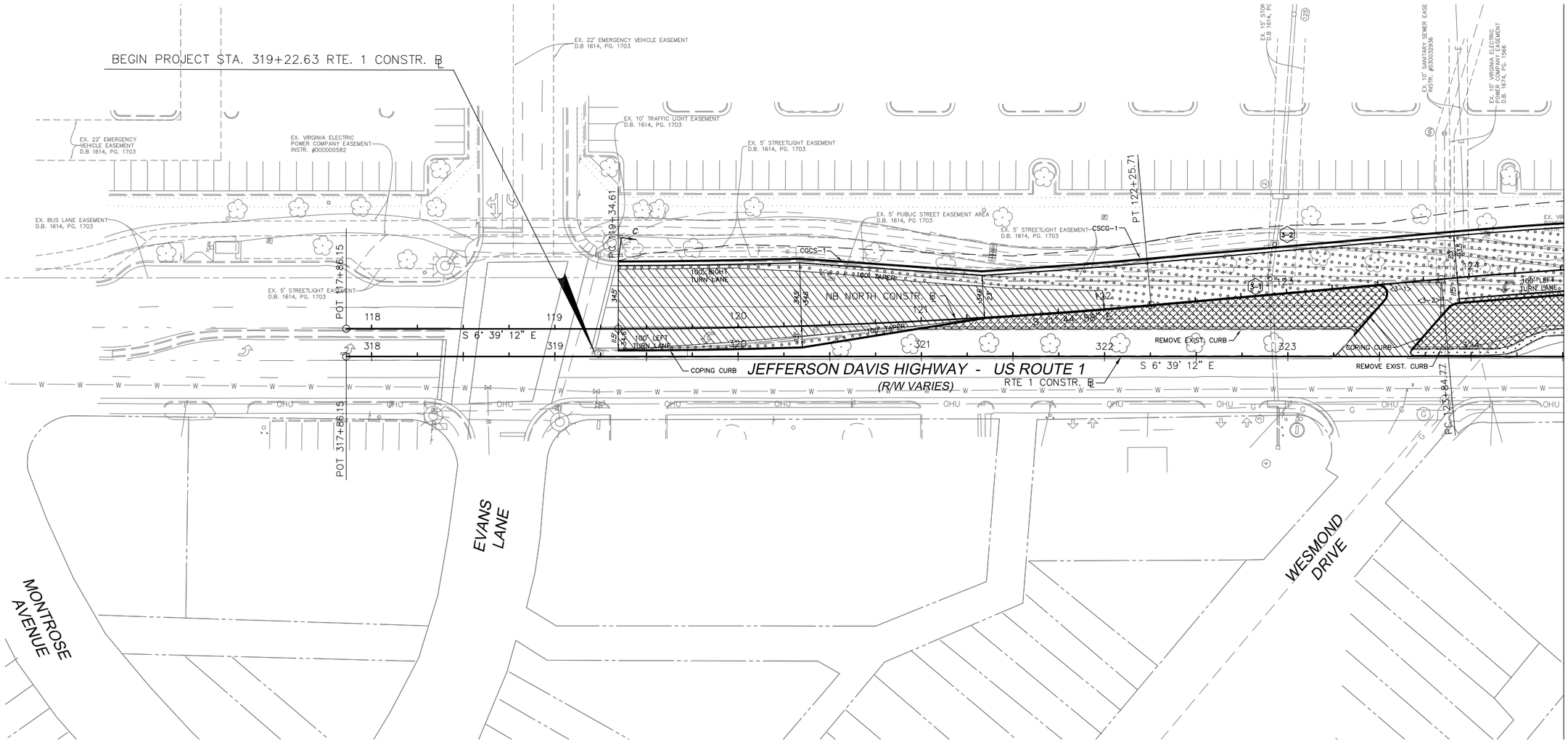
PROJECT NO. 2515453
DATE 03/28/12
SCALE:
DESIGNED BY: C.D.K.
DRAWN BY: C.D.K.
CHECKED BY:M.W.R.

CITY OF ALEXANDRIA VIRGINIA

THE LANE CONSTRUCTION CORPORATION

STV Incorporated
Engineers / Architects / Planners / Construction Managers
2722 Merrilee Drive, Suite 350, Fairfax, VA 22031 (571)633-2220

No.	REVISIONS	DATE	BY



REFERENCES (PROFILES, DETAILS, ETC.)	
NB NORTH PROFILE	3B
RADIAL OFFSETS/TAPER DETAIL	2D

GRAPHIC SCALE IN FEET
0 15 30 60

NORTH

LEGEND

- PROPOSED ASPHALT PAVEMENT
- EXISTING PAVEMENT TO BE MILLED AND OVERLAYED
- EXISTING PAVEMENT TO BE DEMOLISHED
- PROPOSED CONCRETE
- PROPOSED CONCRETE PAVEMENT
- PROPOSED GRASS AREA
- DRY SWALE PRE-TREATMENT
- PROPOSED BIO SWALE
- EXISTING RIGHT OF WAY

60% PLANS
NOT FOR CONSTRUCTION

No.	REVISIONS	DATE	BY

THE LANE CONSTRUCTION CORPORATION

STV Incorporated
Engineers / Architects / Planners / Construction Managers
2702 Merrilee Drive, Suite 300, Fairfax, VA 22031 (571)633-2220

CITY OF ALEXANDRIA VIRGINIA

PROJECT NO. 2515453
DATE 03/28/12
SCALE:1"=30'-0"
DESIGNED BY: G.L.M.
DRAWN BY: G.L.M.
CHECKED BY:M.W.R.

PLAN SHEET

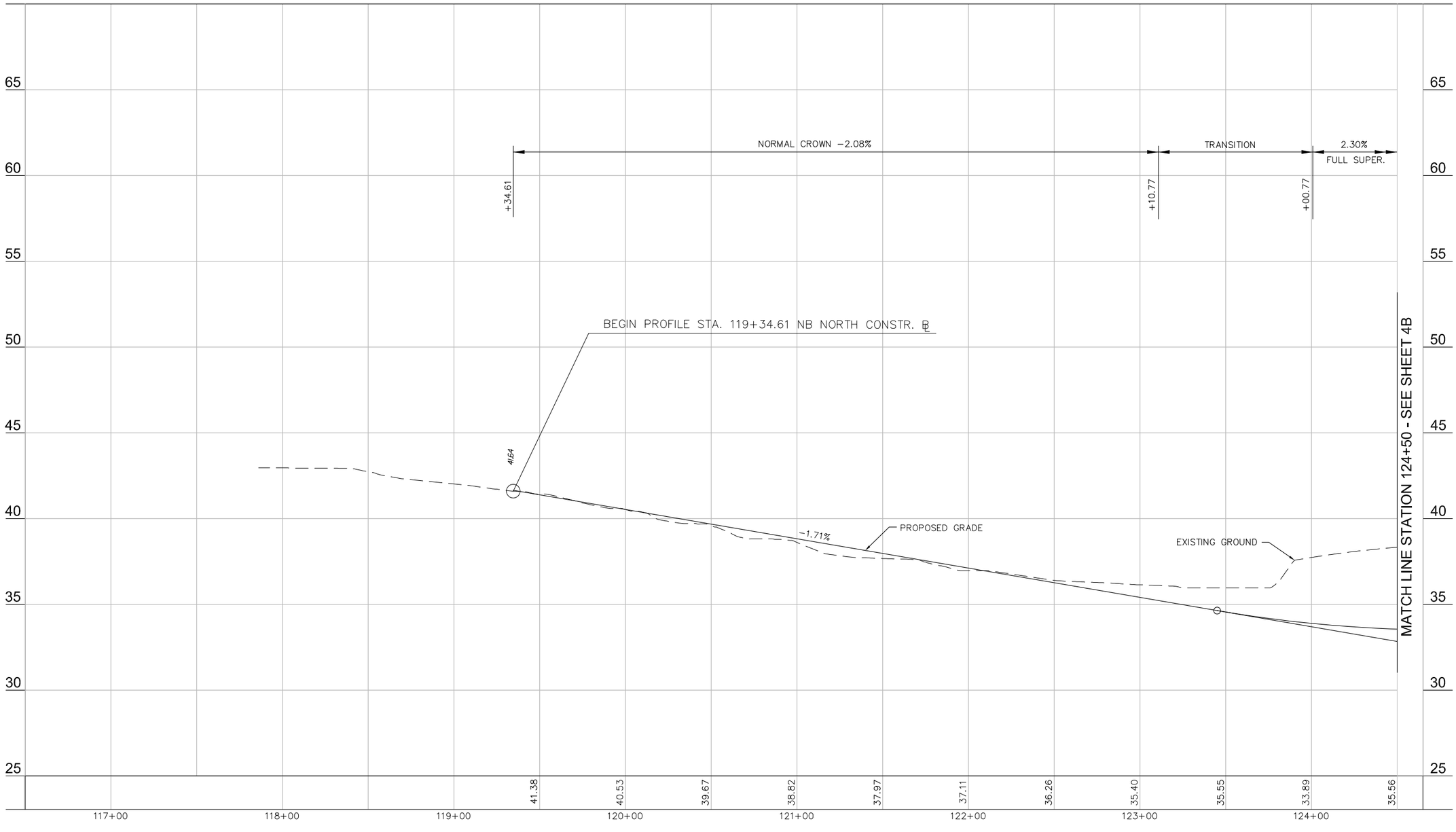
JEFFERSON DAVIS HIGHWAY
ROUTE 1 FROM EAST GLEBE
ROAD TO POTOMAC AVENUE
BRT IMPROVEMENTS
DESIGN/BUILD

CITY OF ALEXANDRIA VIRGINIA

SHEET NUMBER
3

GRAPHIC SCALE IN FEET
0 15 30 60

HORIZONTAL SCALE: 1" = 30'
VERTICAL SCALE: 1" = 3'



60% PLANS
NOT FOR CONSTRUCTION

No.	REVISIONS	DATE	BY

THE LANE CONSTRUCTION CORPORATION

STV Incorporated
Engineers / Architects / Planners / Construction Managers
2722 Merrilee Drive, Suite 300, Fairfax, VA 22031 (571)633-2220

CITY OF ALEXANDRIA VIRGINIA

PROJECT NO.	2515453
DATE	03/28/12
SCALE:	1"=30'-0"
DESIGNED BY:	G.L.M.
DRAWN BY:	G.L.M.
CHECKED BY:	M.W.R.

PROFILE SHEET

JEFFERSON DAVIS HIGHWAY
ROUTE 1 FROM EAST GLEBE
ROAD TO POTOMAC AVENUE
BRT IMPROVEMENTS
DESIGN/BUILD

CITY OF ALEXANDRIA VIRGINIA

SHEET NUMBER
3B

MATCH LINE STATION 324+50 - SEE SHEET 3

MATCH LINE STATION 333+00 - SEE SHEET 5

JEFFERSON DAVIS HIGHWAY - US ROUTE 1
(R/W VARIES)

S 6° 48' 21" E

S 6° 39' 12" E

S 6° 39' 36" E

NB NORTH CONSTR. B

RTE 1 CONSTR. B

PARCEL 502
10.79501 ACRES

PARCEL 600A
2.47957 ACRES

PARCEL 602

PARCEL 601A
0.86745 ACRES

64' R/W

EX. ROW

EX. FIRE STATION

EX. FIRE

EAST GLEBE ROAD

HUME AVENUE

RAYMOND AVENUE

BM# 37.87

POT 1274+94.15

PT 126+17.72

PI 327+92.85

PI 330+26.57

PI 332+66.69

BRT STATION PLATFORM WITH SHELTER
(SHELTER NOT INCLUDED IN THIS PROJECT)

FES
18" RCP
INV. = 37.81

FES
24" RCP
INV. = 41.72

EXISTING PUBLIC ACCESS EASEMENT
INST.# 070006317

EXISTING EMERGENCY VEHICLE ACCESS EASEMENT
INST.# 070006317

EXISTING CONSTRUCTION & MAINTENANCE EASEMENT
INST.# 070012017

EXISTING CLEARING & GRADING EASEMENT
INST.# 070012017

EXISTING EMERGENCY VEHICLE ACCESS EASEMENT
DB 1614 PG 1703

EXISTING 15' STORM DRAIN EASEMENT
DB 1814 PG 1703

EXISTING BELL ATLANTIC EASEMENT
DB 1662 PG 705

EX. 15' STORM DRAIN EASEMENT
D.B 1614, PG. 1703

EX. 10' VIRGINIA AMERICAN WATER COMPANY EASEMENT
D.B 1599, PG. 92

EX. 18" STM.

EX. 24" STM.

EX. WALK

REMOVE EXISTING CURB

COPING CURB

CSCG-1

VDOT CG-7

VDOT CG-3

EX 8" DIP W/M

OHU

GRAPHIC SCALE IN FEET
0 15 30 60

NORTH

LEGEND

- PROPOSED ASPHALT PAVEMENT
- EXISTING PAVEMENT TO BE MILLED AND OVERLAYED
- EXISTING PAVEMENT TO BE DEMOLISHED
- PROPOSED CONCRETE
- PROPOSED CONCRETE PAVEMENT
- PROPOSED GRASS AREA
- DRY SWALE PRE-TREATMENT
- PROPOSED BIO SWALE
- EXISTING RIGHT OF WAY

REFERENCES
(PROFILES, DETAILS, ETC.)

ROUTE 1 PROFILE	4A
NB NORTH PROFILE	4B
CURB TRANSITION DETAIL	2B-1
RADIAL OFFSETS/TAPER DETAIL	2D

60% PLANS
NOT FOR CONSTRUCTION

No.	REVISIONS	DATE	BY

THE LANE CONSTRUCTION CORPORATION

STV Incorporated
Engineers / Architects / Planners / Construction Managers
2722 Merrilee Drive, Suite 300, Fairfax, VA 22031 (571)633-2220

CITY OF ALEXANDRIA VIRGINIA

PROJECT NO. 2515453
DATE 03/28/12
SCALE 1"=30'-0"
DESIGNED BY: G.L.M.
DRAWN BY: G.L.M.
CHECKED BY: M.W.R.

PLAN SHEET

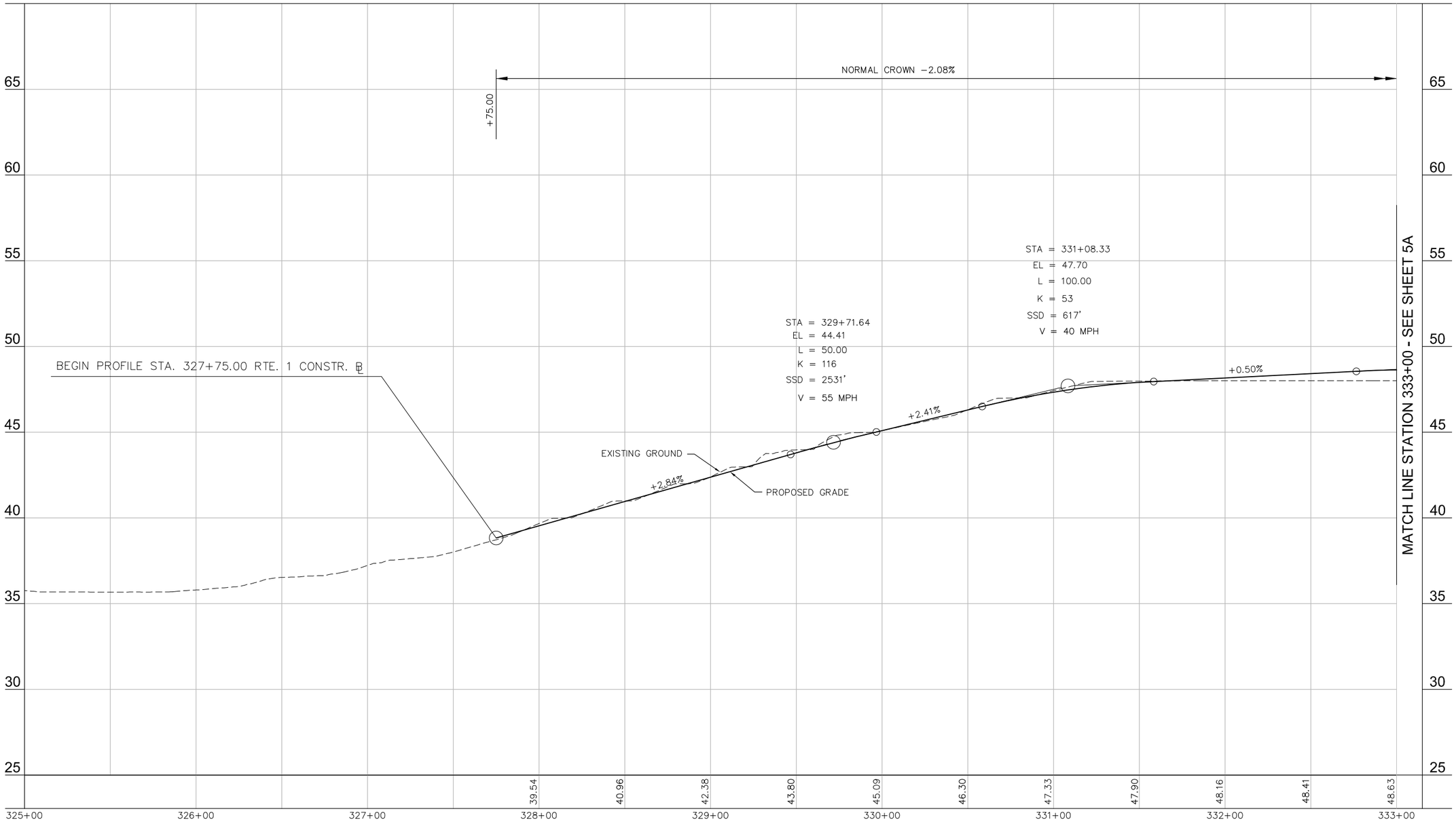
JEFFERSON DAVIS HIGHWAY
ROUTE 1 FROM EAST GLEBE
ROAD TO POTOMAC AVENUE
BRT IMPROVEMENTS
DESIGN/BUILD

CITY OF ALEXANDRIA VIRGINIA

SHEET NUMBER
4

GRAPHIC SCALE IN FEET
0 15 30 60

HORIZONTAL SCALE: 1" = 30'
VERTICAL SCALE: 1" = 3'



60% PLANS
NOT FOR CONSTRUCTION

No.	REVISIONS	DATE	BY

THE LANE CONSTRUCTION CORPORATION

STV Incorporated
Engineers / Architects / Planners / Construction Managers
2702 Merrilee Drive, Suite 300, Fairfax, VA 22031 (571)633-2220

CITY OF ALEXANDRIA VIRGINIA

PROJECT NO. 251453
DATE 03/28/12
SCALE: 1"=30'-0"
DESIGNED BY: G.L.M.
DRAWN BY: G.L.M.
CHECKED BY: M.W.R.

PROFILE SHEET

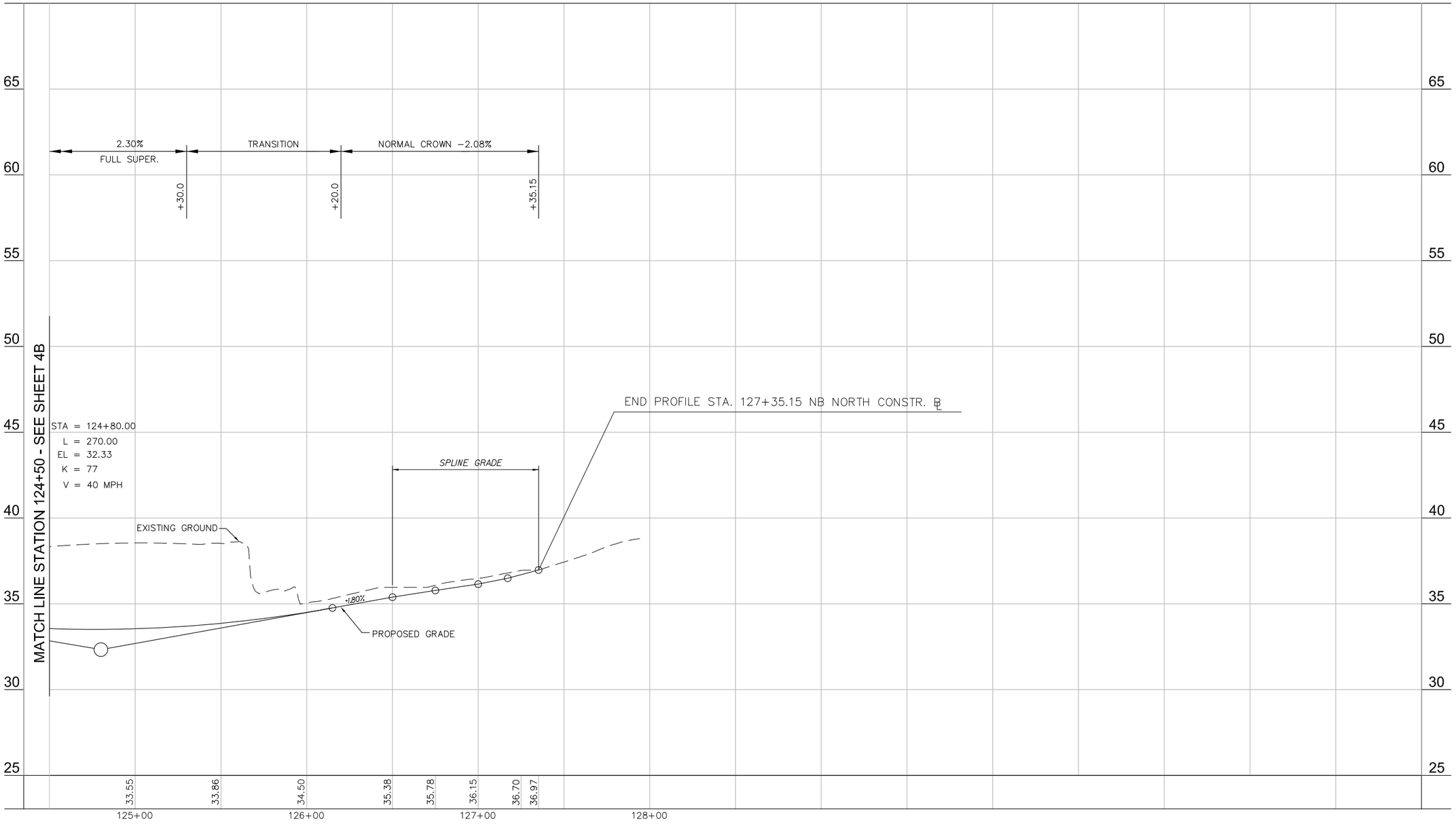
JEFFERSON DAVIS HIGHWAY
ROUTE 1 FROM EAST GLEBE
ROAD TO POTOMAC AVENUE
BRT IMPROVEMENTS
DESIGN/BUILD

CITY OF ALEXANDRIA VIRGINIA

SHEET NUMBER
4A

GRAPHIC SCALE IN FEET
0 15 30 60

HORIZONTAL SCALE: 1" = 30'
VERTICAL SCALE: 1" = 3'



60% PLANS
NOT FOR CONSTRUCTION

No.	REVISIONS	DATE	BY

THE LANE CONSTRUCTION CORPORATION

STV Incorporated
Engineers / Architects / Planners / Construction Managers
2722 Merrilee Drive, Suite 300, Fairfax, VA 22031 (571)633-2220

CITY OF ALEXANDRIA VIRGINIA

PROJECT NO. 2515453
DATE 03/28/12
SCALE: 1"=30'-0"
DESIGNED BY: G.L.M.
DRAWN BY: G.L.M.
CHECKED BY: M.W.R.

PROFILE SHEET

JEFFERSON DAVIS HIGHWAY
ROUTE 1 FROM EAST GLEBE
ROAD TO POTOMAC AVENUE
BRT IMPROVEMENTS
DESIGN/BUILD

CITY OF ALEXANDRIA VIRGINIA

SHEET NUMBER
4B

MATCH LINE STATION 333+00 - SEE SHEET 4

MATCH LINE STATION 341+50 - SEE SHEET 6

STATION

MASKELL STREET

EAST SWANN AVENUE

SWANN AVENUE

CALVERT AVENUE

PARCEL 505
2.01584 ACRES

EXISTING 22' INGRESS/EGRESS & EMERGENCY VEHICLE ACCESS EASEMENT DB 1531 PG 1215

EXISTING 15' VIRGINIA ELECTRIC POWER COMPANY EASEMENT DB 1548 PG 486

EXISTING 15' VIRGINIA ELECTRIC POWER COMPANY EASEMENT DB 1548 PG 486

EXISTING BELL ATLANTIC EASEMENT DB 1662 PG 705

JEFFERSON DAVIS HIGHWAY - US ROUTE 1
(R/W VARIES)

EX. ROW

EX. WALK

PROPOSED BIO SWALE

BRT STATION PLATFORM WITH SHELTER
(SHELTER NOT INCLUDED IN THIS PROJECT)

BRT STATION PLATFORM WITH SHELTER
(SHELTER NOT INCLUDED IN THIS PROJECT)

TEMP 24" RCP

4' SCUPPER

CSCG-1

VDOT CG-7

VDOT CG-3

COPING CURB

S 6° 41' 27" E

S 6° 42' 22" E

RTE 1 CONSTR. B

EX. 8" SAN PVC

EX. 8" DIP W

EX. 12" SAN DIP

EX. 24" STM.

PI 338+77.11

PI 340+99.73

REFERENCES
(PROFILES, DETAILS, ETC.)

ROUTE 1 PROFILE	5A
CURB TRANSITION DETAIL	2B-1
BIO SWALE DETAILS	2B-2
RADIAL OFFSETS/TAPER DETAIL	2D

GRAPHIC SCALE IN FEET
0 15 30 60

NORTH

LEGEND

- PROPOSED ASPHALT PAVEMENT
- EXISTING PAVEMENT TO BE MILLED AND OVERLAYED
- EXISTING PAVEMENT TO BE DEMOLISHED
- PROPOSED CONCRETE
- PROPOSED CONCRETE PAVEMENT
- PROPOSED GRASS AREA
- DRY SWALE PRE-TREATMENT
- PROPOSED BIO SWALE
- EXISTING RIGHT OF WAY

60% PLANS
NOT FOR CONSTRUCTION

No.	REVISIONS	DATE	BY

THE LANE CONSTRUCTION CORPORATION

STV Incorporated
Engineers / Architects / Planners / Construction Managers
2722 Merrilee Drive, Suite 300, Fairfax, VA 22031 (571)633-2220

CITY OF ALEXANDRIA VIRGINIA

PROJECT NO. 2515453
DATE 03/28/12
SCALE: 1"=30'-0"
DESIGNED BY: G.L.M.
DRAWN BY: G.L.M.
CHECKED BY: M.W.R.

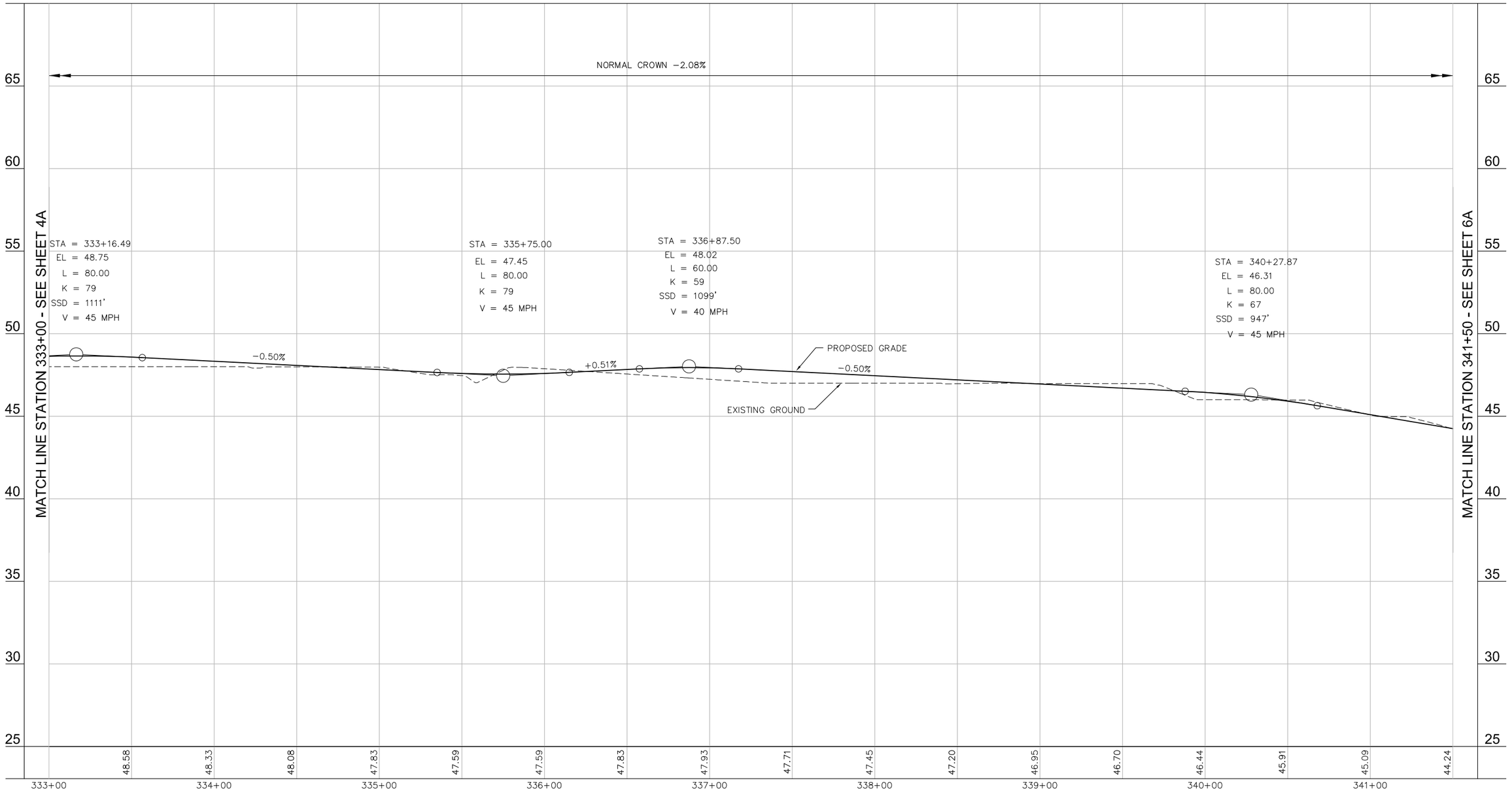
PLAN SHEET

JEFFERSON DAVIS HIGHWAY
ROUTE 1 FROM EAST GLEBE
ROAD TO POTOMAC AVENUE
BRT IMPROVEMENTS
DESIGN/BUILD

CITY OF ALEXANDRIA VIRGINIA

SHEET NUMBER
5

GRAPHIC SCALE IN FEET
0 15 30 60
HORIZONTAL SCALE: 1" = 30'
VERTICAL SCALE: 1" = 3'



60% PLANS
NOT FOR CONSTRUCTION

No.	REVISIONS	DATE	BY

THE LANE CONSTRUCTION CORPORATION

STV Incorporated
Engineers / Architects / Planners / Construction Managers
2702 Merrilee Drive, Suite 300, Fairfax, VA 22031 (571)633-2220

CITY OF ALEXANDRIA VIRGINIA

PROJECT NO. 2515453
DATE 03/28/12
SCALE: 1"=30'-0"
DESIGNED BY: G.L.M.
DRAWN BY: G.L.M.
CHECKED BY: M.W.R.

PROFILE SHEET

JEFFERSON DAVIS HIGHWAY
ROUTE 1 FROM EAST GLEBE
ROAD TO POTOMAC AVENUE
BRT IMPROVEMENTS
DESIGN/BUILD
VIRGINIA
CITY OF ALEXANDRIA

SHEET NUMBER
5A

MATCH LINE STATION 341+50 - SEE SHEET 5

MATCH LINE STATION 350+00 - SEE SHEET 7

DB 1531 PG 1215

BLUEMONT AVENUE

MCKENZIE AVENUE

FANNON AVENUE

PARCEL 507
5.15333 ACRES

PARCEL 507
5.15333 ACRES

EXISTING BELL ATLANTIC EASEMENT
DB 1662 PG 705

EXISTING BELL ATLANTIC EASEMENT
DB 1662 PG 705

BRT STATION PLATFORM WITH SHELTER
(SHELTER NOT INCLUDED IN THIS PROJECT)

EX. ROW

JEFFERSON DAVIS HIGHWAY - US ROUTE 1
(R/W VARIES)

CSCG-1

4' SCUPPER

PROPOSED BIO SWALE (TYP.)

COPING CURB

S 6° 37' 31" E

S 6° 43' 53" E

S 6° 53' 27" E

EX. 12" SAN DIP

RTE 1 CONSTR. ℄

PI 344+31.77

PI 347+58.81

FES
15" RCP
INV. = 36.64

EX. 15" RCP

GRAPHIC SCALE IN FEET
0 15 30 60

NORTH

LEGEND

- PROPOSED ASPHALT PAVEMENT
- EXISTING PAVEMENT TO BE MILLED AND OVERLAYED
- EXISTING PAVEMENT TO BE DEMOLISHED
- PROPOSED CONCRETE
- PROPOSED CONCRETE PAVEMENT
- PROPOSED GRASS AREA
- DRY SWALE PRE-TREATMENT
- PROPOSED BIO SWALE
- EXISTING RIGHT OF WAY

REFERENCES (PROFILES, DETAILS, ETC.)	
ROUTE 1 PROFILE	6A
CURB TRANSITION DETAIL	2B-1
BIO SWALE DETAILS	2B-2
RADIAL OFFSETS/TAPER DETAIL	2D

60% PLANS
NOT FOR CONSTRUCTION

No.	REVISIONS	DATE	BY

THE LANE CONSTRUCTION CORPORATION

STV Incorporated
Engineers / Architects / Planners / Construction Managers
2702 Merrilee Drive, Suite 300, Fairfax, VA 22031 (571)633-2220

CITY OF ALEXANDRIA VIRGINIA

PROJECT NO. 2515453
DATE 03/28/12
SCALE: 1"=30'-0"
DESIGNED BY: G.L.M.
DRAWN BY: G.L.M.
CHECKED BY: M.W.R.

PLAN SHEET

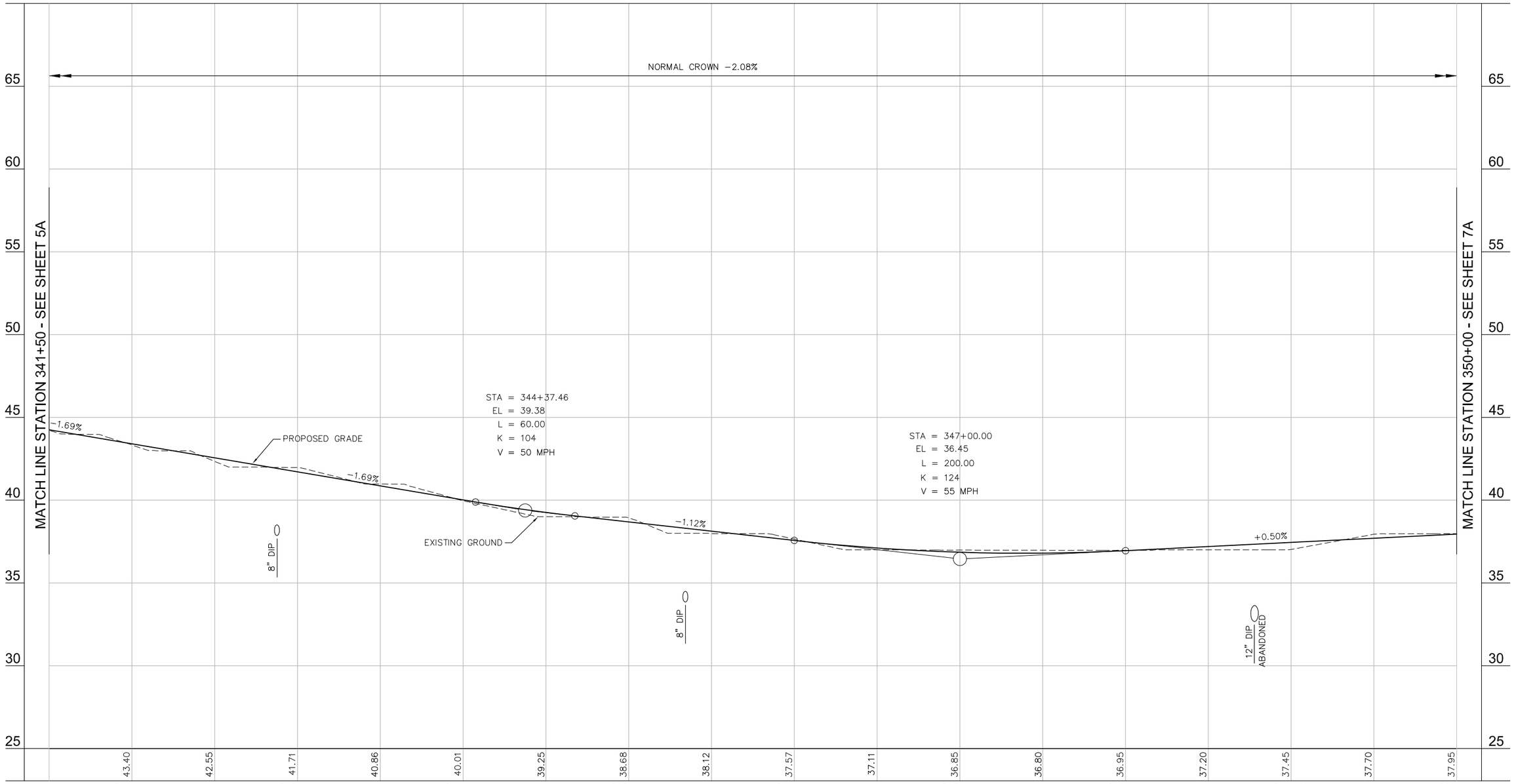
JEFFERSON DAVIS HIGHWAY
ROUTE 1 FROM EAST GLEBE
ROAD TO POTOMAC AVENUE
BRT IMPROVEMENTS
DESIGN/BUILD

CITY OF ALEXANDRIA VIRGINIA

SHEET NUMBER
6

GRAPHIC SCALE IN FEET
0 15 30 60

HORIZONTAL SCALE: 1" = 30'
VERTICAL SCALE: 1" = 3'



60% PLANS
NOT FOR CONSTRUCTION

No.	REVISIONS	DATE	BY

THE LANE CONSTRUCTION CORPORATION

STV Incorporated
Engineers / Architects / Planners / Construction Managers
2722 Merrilee Drive, Suite 300, Fairfax, VA 22031 (571)633-2220

CITY OF ALEXANDRIA VIRGINIA

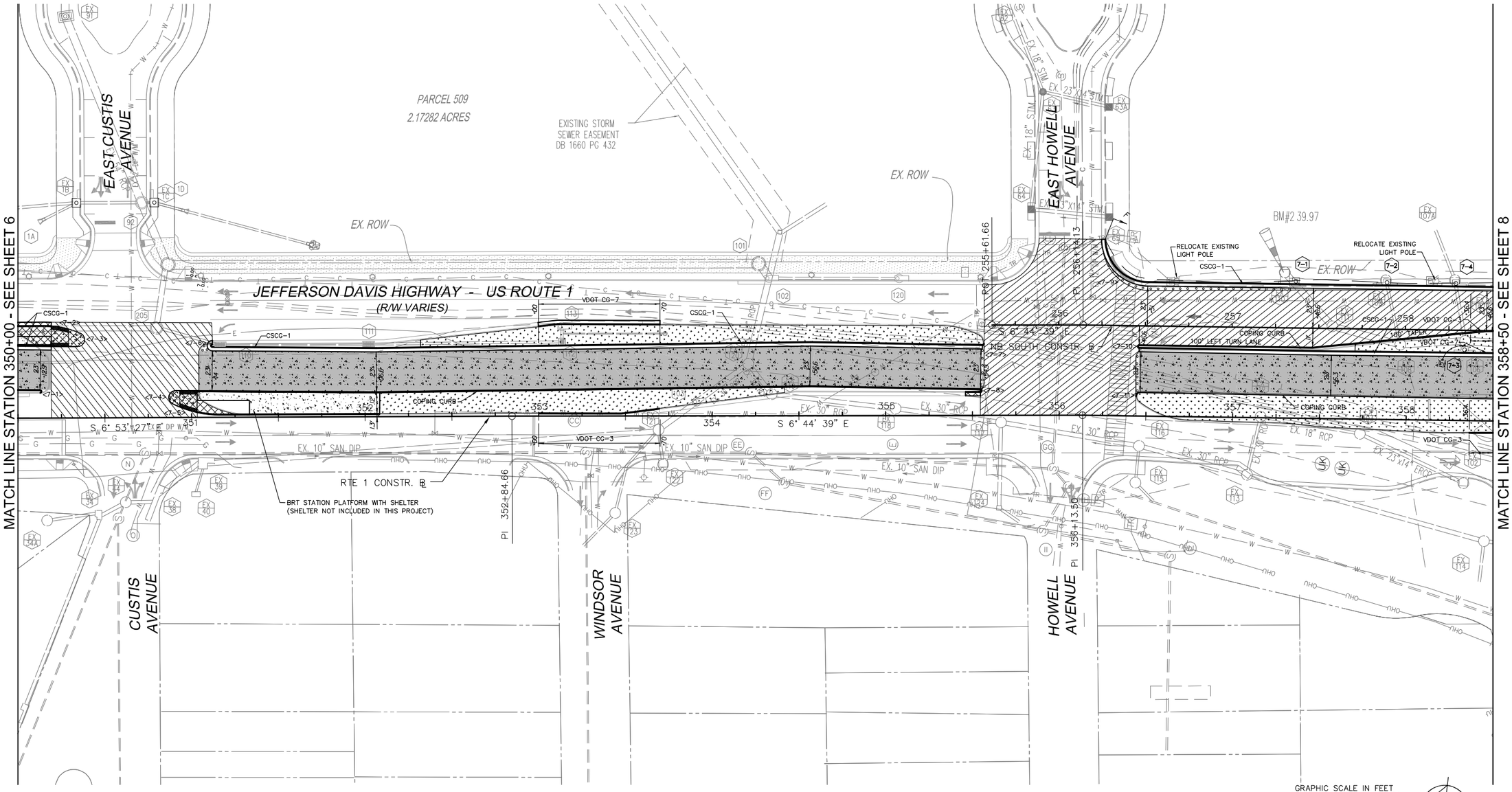
PROJECT NO. 2515453
DATE 03/28/12
SCALE: 1"=30'-0"
DESIGNED BY: G.L.M.
DRAWN BY: G.L.M.
CHECKED BY: M.W.R.

PROFILE SHEET

JEFFERSON DAVIS HIGHWAY
ROUTE 1 FROM EAST GLEBE
ROAD TO POTOMAC AVENUE
BRT IMPROVEMENTS
DESIGN/BUILD

CITY OF ALEXANDRIA VIRGINIA

SHEET NUMBER
6A



LEGEND

- PROPOSED ASPHALT PAVEMENT
- EXISTING PAVEMENT TO BE MILLED AND OVERLAYED
- EXISTING PAVEMENT TO BE DEMOLISHED
- PROPOSED CONCRETE
- PROPOSED CONCRETE PAVEMENT
- PROPOSED GRASS AREA
- DRY SWALE PRE-TREATMENT
- PROPOSED BIO SWALE
- EXISTING RIGHT OF WAY

REFERENCES (PROFILES, DETAILS, ETC.)	
ROUTE 1 PROFILE	7A
NB NORTH PROFILE	7B
CURB TRANSITION DETAIL	2B-1
RADIAL OFFSETS/TAPER DETAIL	2D

60% PLANS
NOT FOR CONSTRUCTION

No.	REVISIONS	DATE	BY

THE LANE CONSTRUCTION CORPORATION

STV Incorporated
Engineers / Architects / Planners / Construction Managers
2702 Merrilee Drive, Suite 300, Fairfax, VA 22031 (571)633-2220

CITY OF ALEXANDRIA VIRGINIA

PROJECT NO. 2515453
DATE 03/28/12
SCALE: 1"=30'-0"
DESIGNED BY: G.L.M.
DRAWN BY: G.L.M.
CHECKED BY: M.W.R.

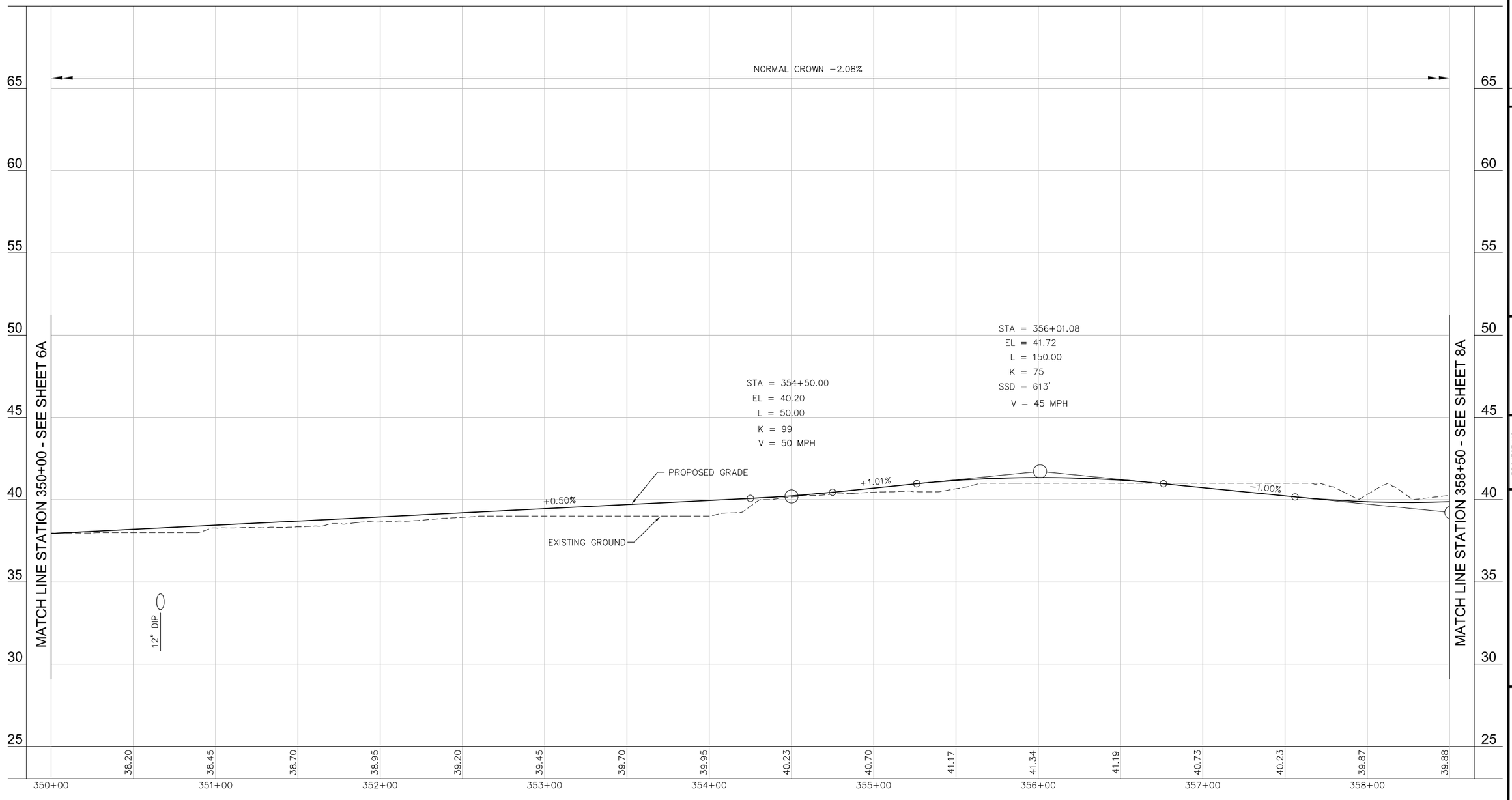
PLAN SHEET

JEFFERSON DAVIS HIGHWAY
ROUTE 1 FROM EAST GLEBE
ROAD TO POTOMAC AVENUE
BRT IMPROVEMENTS
DESIGN/BUILD

CITY OF ALEXANDRIA VIRGINIA

SHEET NUMBER
7

GRAPHIC SCALE IN FEET
0 15 30 60
HORIZONTAL SCALE: 1" = 30'
VERTICAL SCALE: 1" = 3'



60% PLANS
NOT FOR CONSTRUCTION

No.	REVISIONS	DATE	BY

THE LANE CONSTRUCTION CORPORATION

STV Incorporated
Engineers / Architects / Planners / Construction Managers
2722 Merrilee Drive, Suite 350, Fairfax, VA 22031 (571)633-2220

CITY OF ALEXANDRIA VIRGINIA

PROJECT NO. 2515453
DATE 03/28/12
SCALE: 1"=30'-0"
DESIGNED BY: G.L.M.
DRAWN BY: G.L.M.
CHECKED BY: M.W.R.

PROFILE SHEET

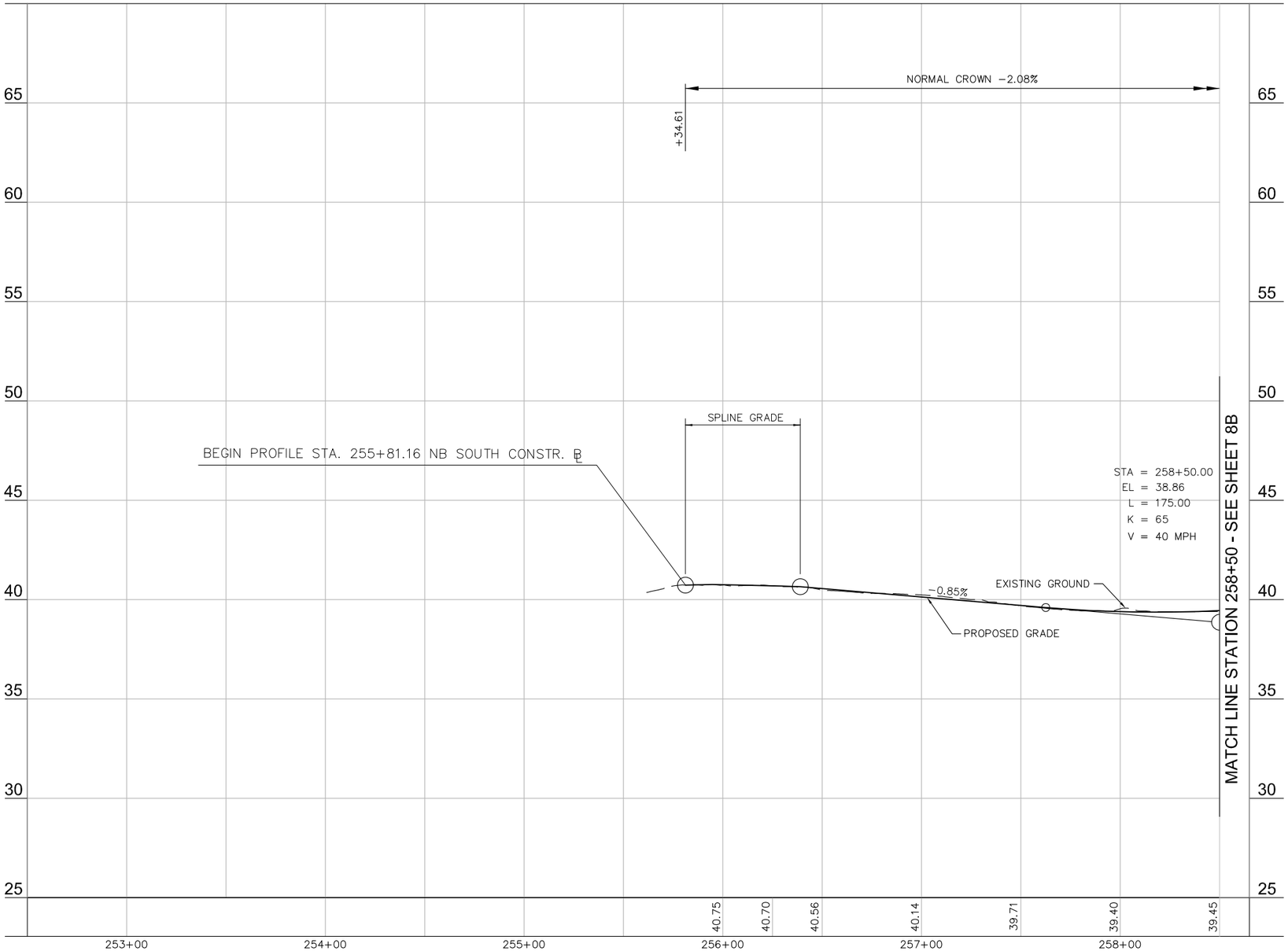
JEFFERSON DAVIS HIGHWAY
ROUTE 1 FROM EAST GLEBE
ROAD TO POTOMAC AVENUE
BRT IMPROVEMENTS
DESIGN/BUILD

CITY OF ALEXANDRIA VIRGINIA

SHEET NUMBER
7A

GRAPHIC SCALE IN FEET
0 15 30 60

HORIZONTAL SCALE: 1" = 30'
VERTICAL SCALE: 1" = 3'



60% PLANS
NOT FOR CONSTRUCTION

No.	REVISIONS	DATE	BY

THE LANE CONSTRUCTION CORPORATION

STV Incorporated
Engineers / Architects / Planners / Construction Managers
2722 Merrilee Drive, Suite 300, Fairfax, VA 22031 (571)633-2220

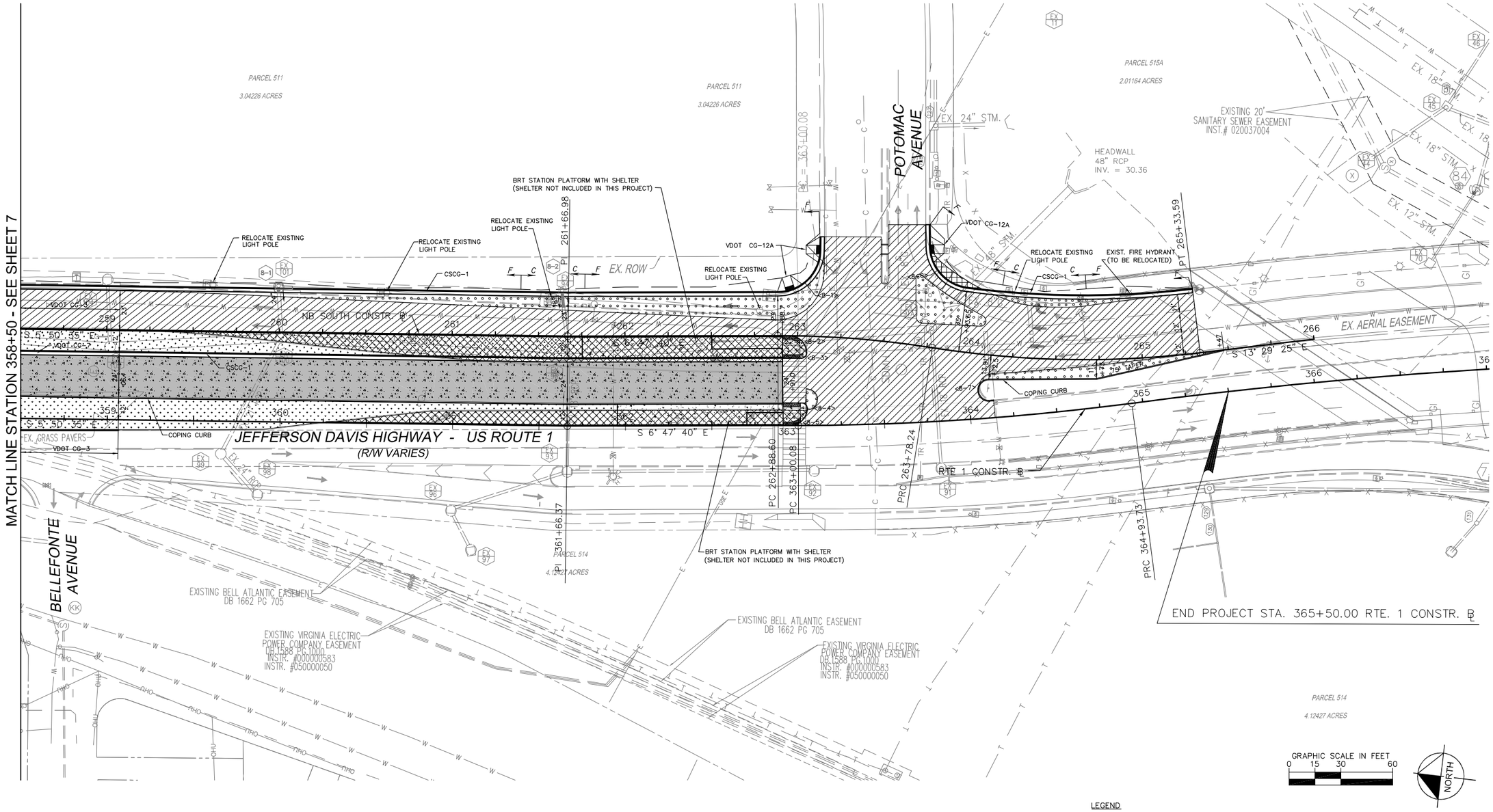
CITY OF ALEXANDRIA VIRGINIA

PROJECT NO. 2515453
DATE 03/28/12
SCALE:1"=30'-0"
DESIGNED BY: G.L.M.
DRAWN BY: G.L.M.
CHECKED BY:M.W.R.

PROFILE SHEET

JEFFERSON DAVIS HIGHWAY
ROUTE 1 FROM EAST GLEBE
ROAD TO POTOMAC AVENUE
BRT IMPROVEMENTS
DESIGN/BUILD
CITY OF ALEXANDRIA VIRGINIA

SHEET NUMBER
7B



LEGEND

- PROPOSED ASPHALT PAVEMENT
- EXISTING PAVEMENT TO BE MILLED AND OVERLAYED
- EXISTING PAVEMENT TO BE DEMOLISHED
- PROPOSED CONCRETE
- PROPOSED CONCRETE PAVEMENT
- PROPOSED GRASS AREA
- DRY SWALE PRE-TREATMENT
- PROPOSED BIO SWALE
- EXISTING RIGHT OF WAY

REFERENCES (PROFILES, DETAILS, ETC.)	
ROUTE 1 PROFILE	8A
NB NORTH PROFILE	8B
CURB TRANSITION DETAIL	2B-1
RADIAL OFFSETS/TAPER DETAIL	2D

60% PLANS
NOT FOR CONSTRUCTION

No.	REVISIONS	DATE	BY

THE LANE CONSTRUCTION CORPORATION

STV Incorporated
Engineers / Architects / Planners / Construction Managers
2722 Merrilee Drive, Suite 350, Fairfax, VA 22031 (571)633-2220

CITY OF ALEXANDRIA VIRGINIA

PROJECT NO. 2515453
DATE 03/28/12
SCALE: 1"=30'-0"
DESIGNED BY: G.L.M.
DRAWN BY: G.L.M.
CHECKED BY: M.W.R.

PLAN SHEET

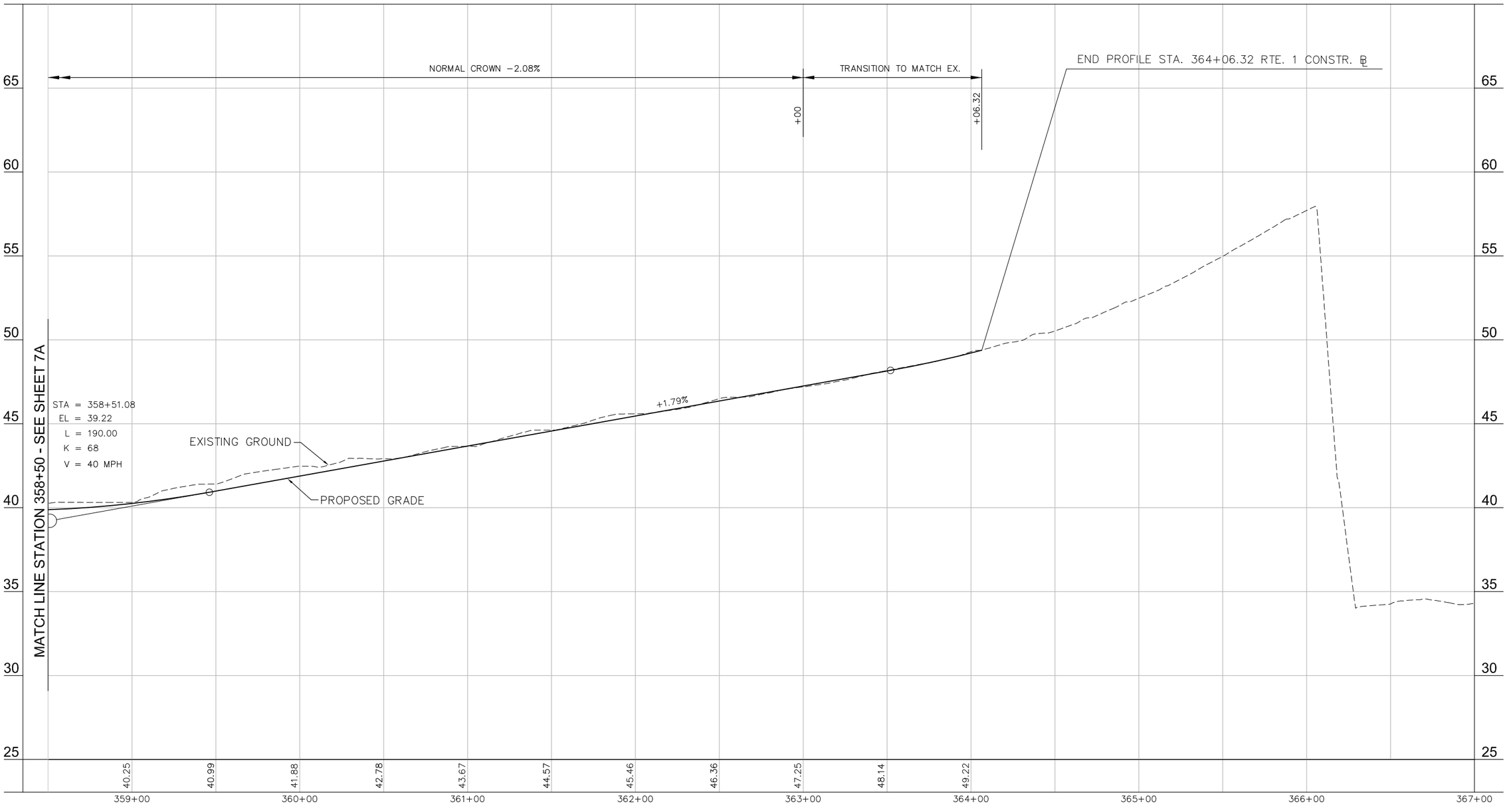
JEFFERSON DAVIS HIGHWAY
ROUTE 1 FROM EAST GLEBE
ROAD TO POTOMAC AVENUE
BRT IMPROVEMENTS
DESIGN/BUILD

CITY OF ALEXANDRIA VIRGINIA

SHEET NUMBER
8

GRAPHIC SCALE IN FEET
0 15 30 60

HORIZONTAL SCALE: 1" = 30'
VERTICAL SCALE: 1" = 3'



60% PLANS
NOT FOR CONSTRUCTION

No.	REVISIONS	DATE	BY

THE LANE CONSTRUCTION CORPORATION

STV Incorporated
Engineers / Architects / Planners / Construction Managers
2722 Merrilee Drive, Suite 300, Fairfax, VA 22031 (571)633-2220

CITY OF ALEXANDRIA VIRGINIA

PROJECT NO. 2515453
DATE 03/28/12
SCALE: 1"=30'-0"
DESIGNED BY: G.L.M.
DRAWN BY: G.L.M.
CHECKED BY: M.W.R.

PROFILE SHEET

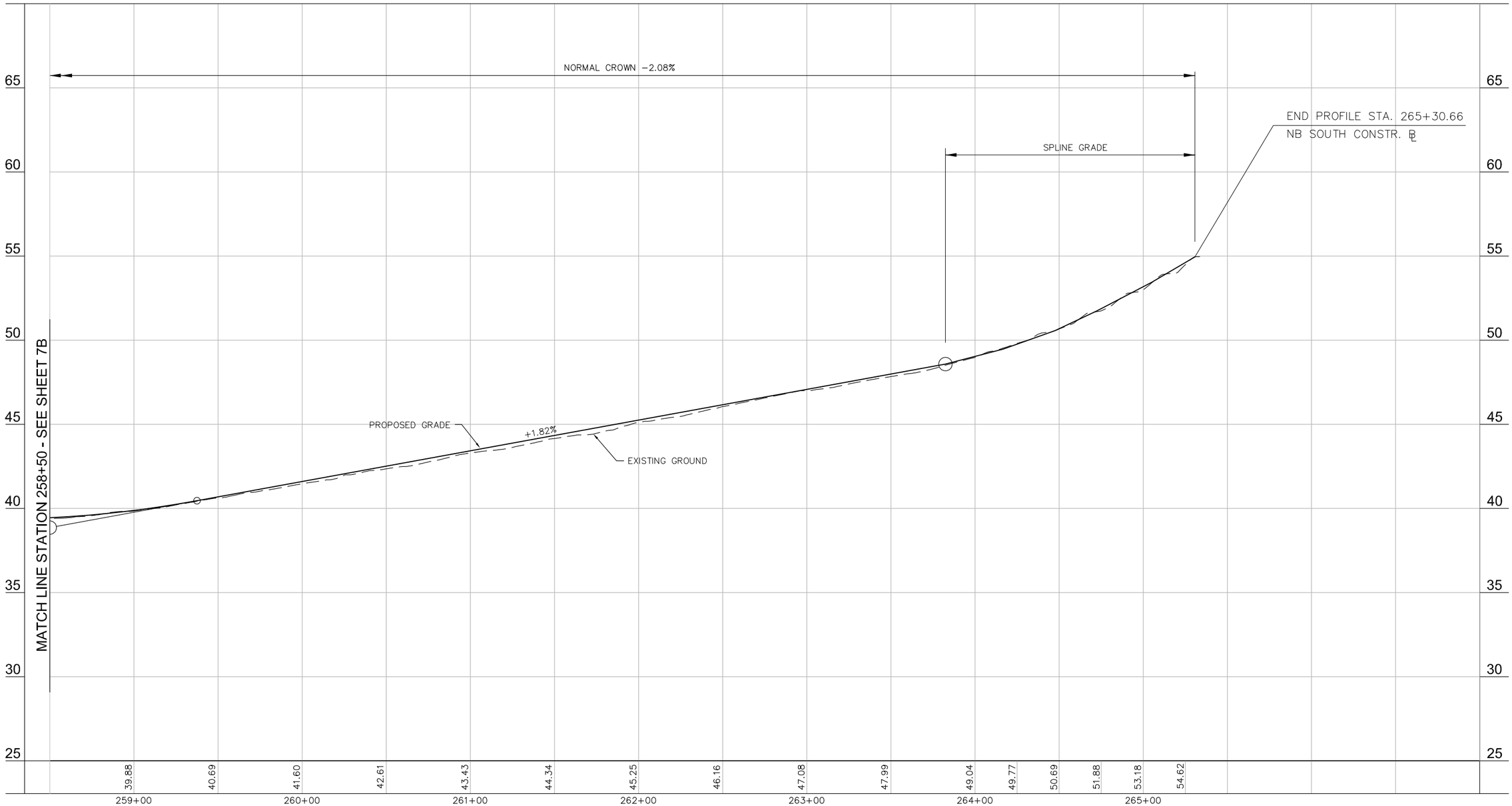
JEFFERSON DAVIS HIGHWAY
ROUTE 1 FROM EAST GLEBE
ROAD TO POTOMAC AVENUE
BRT IMPROVEMENTS
DESIGN/BUILD

CITY OF ALEXANDRIA VIRGINIA

SHEET NUMBER
8A

GRAPHIC SCALE IN FEET
0 15 30 60

HORIZONTAL SCALE: 1" = 30'
VERTICAL SCALE: 1" = 3'



60% PLANS
NOT FOR CONSTRUCTION

No.	REVISIONS	DATE	BY

THE LANE CONSTRUCTION CORPORATION

STV Incorporated
Engineers / Architects / Planners / Construction Managers
2722 Merrilee Drive, Suite 300, Fairfax, VA 22031 (571)633-2220

CITY OF ALEXANDRIA VIRGINIA

PROJECT NO. 2515453
DATE 03/28/12
SCALE: 1"=30'-0"
DESIGNED BY: G.L.M.
DRAWN BY: G.L.M
CHECKED BY: M.W.R.

PROFILE SHEET

JEFFERSON DAVIS HIGHWAY
ROUTE 1 FROM EAST GLEBE
ROAD TO POTOMAC AVENUE
BRT IMPROVEMENTS
DESIGN/BUILD

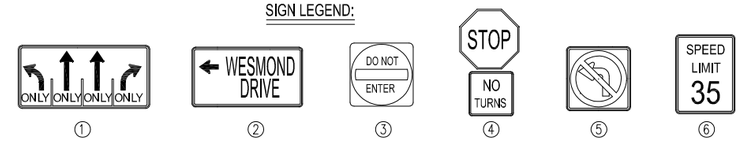
CITY OF ALEXANDRIA VIRGINIA

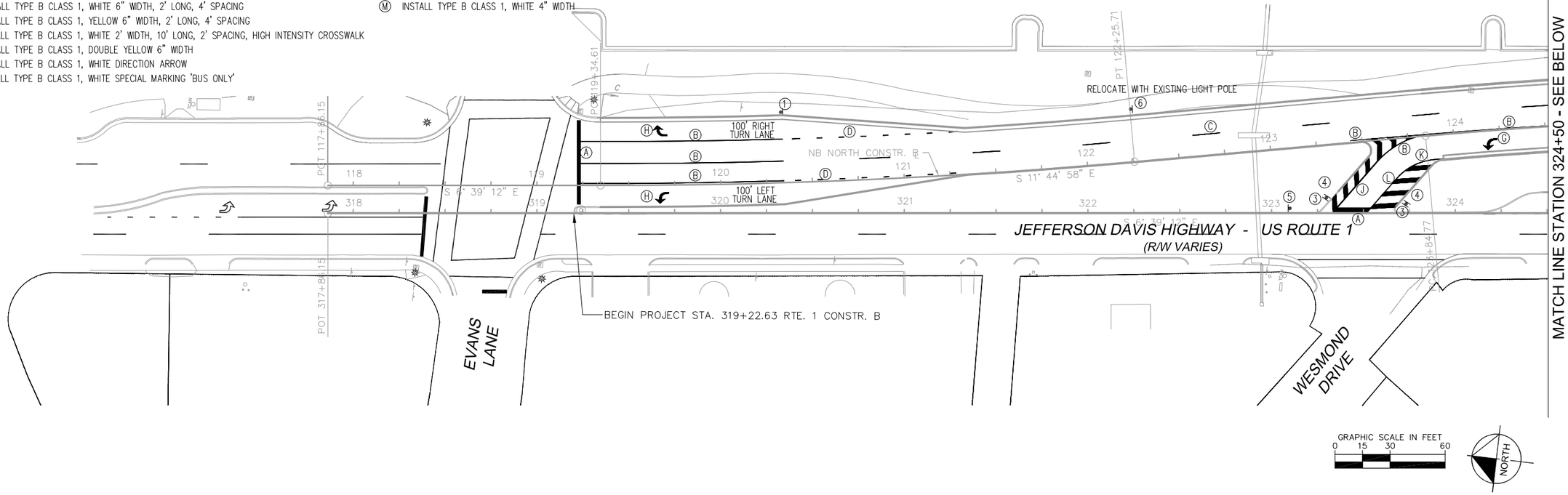
SHEET NUMBER
8B

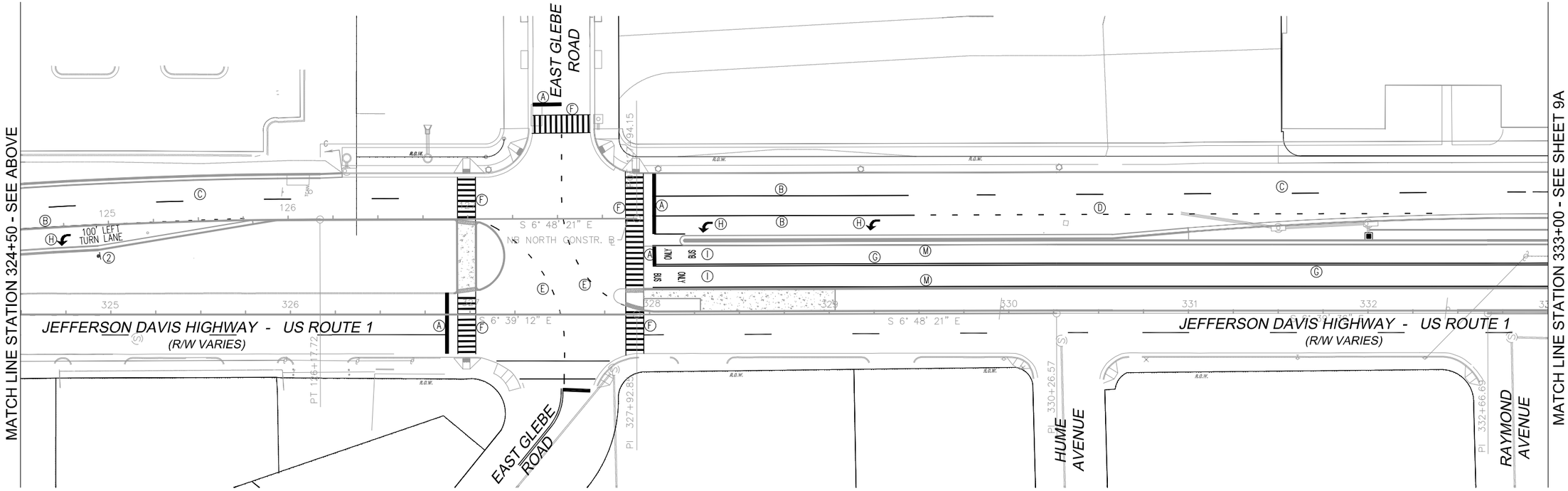
STANDARD PAVEMENT MARKING LEGEND:

- (A) INSTALL TYPE B CLASS 1, WHITE 24" WIDTH
- (B) INSTALL TYPE B CLASS 1, WHITE 6" WIDTH
- (C) INSTALL TYPE B CLASS 1, WHITE 6' WIDTH, 10' LONG, 30' SPACING
- (D) INSTALL TYPE B CLASS 1, WHITE 6" WIDTH, 2' LONG, 4' SPACING
- (E) INSTALL TYPE B CLASS 1, YELLOW 6" WIDTH, 2' LONG, 4' SPACING
- (F) INSTALL TYPE B CLASS 1, WHITE 2' WIDTH, 10' LONG, 2' SPACING, HIGH INTENSITY CROSSWALK
- (G) INSTALL TYPE B CLASS 1, DOUBLE YELLOW 6" WIDTH
- (H) INSTALL TYPE B CLASS 1, WHITE DIRECTION ARROW
- (I) INSTALL TYPE B CLASS 1, WHITE SPECIAL MARKING 'BUS ONLY'
- (J) INSTALL TYPE B CLASS 1, WHITE 24" WIDTH GORE MARKINGS
- (K) INSTALL TYPE B CLASS 1, YELLOW 6" WIDTH
- (L) INSTALL TYPE B CLASS 1, YELLOW 24" WIDTH GORE MARKINGS
- (M) INSTALL TYPE B CLASS 1, WHITE 4" WIDTH

SIGN LEGEND:







60% PLANS
NOT FOR CONSTRUCTION

No.	REVISIONS	DATE	BY

THE LANE CONSTRUCTION CORPORATION

STV Incorporated
Engineers / Architects / Planners / Construction Managers
2722 Merrilee Drive, Suite 350, Fairfax, VA 22031 (571)633-2220

CITY OF ALEXANDRIA VIRGINIA

PROJECT NO. 2515453
DATE 03/28/12
SCALE: 1" = 30'-0"
DESIGNED BY: W.B.K.
DRAWN BY: R.W.M.
CHECKED BY: B.A.B.

PAVEMENT MARKINGS & SIGNING PLAN

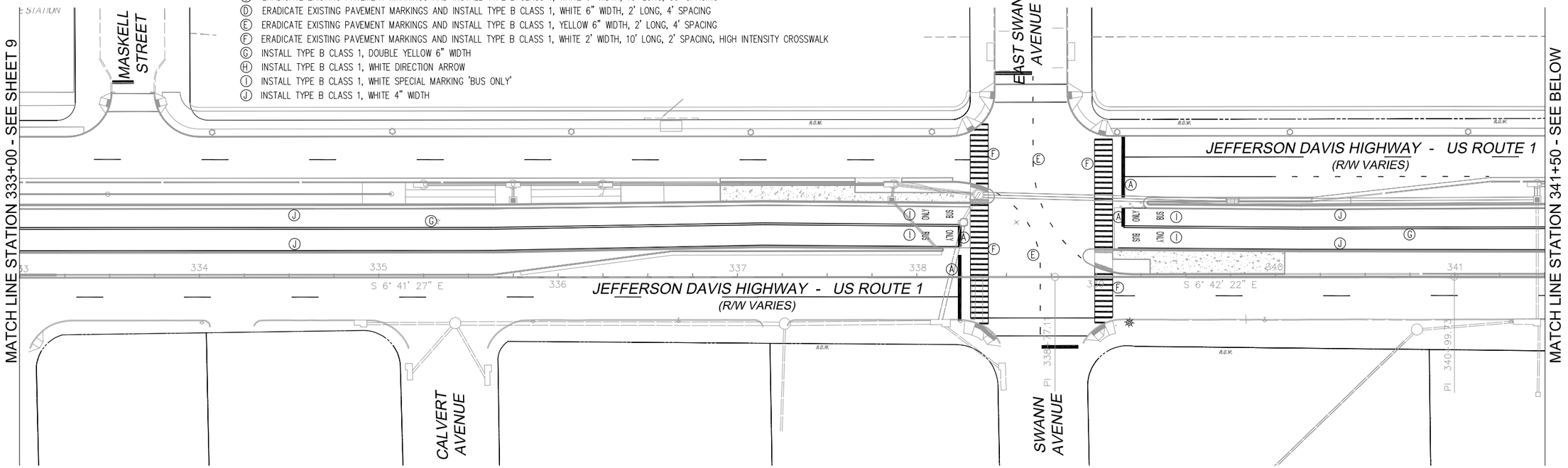
JEFFERSON DAVIS HIGHWAY ROUTE 1 FROM EAST GLEBE ROAD TO POTOMAC AVENUE BRT IMPROVEMENTS DESIGN/BUILD

CITY OF ALEXANDRIA VIRGINIA

SHEET NUMBER 9

STANDARD PAVEMENT MARKING LEGEND:

- (A) ERADICATE EXISTING PAVEMENT MARKINGS AND INSTALL TYPE B CLASS 1, WHITE 24" WIDTH
- (B) ERADICATE EXISTING PAVEMENT MARKINGS AND INSTALL TYPE B CLASS 1, WHITE 6" WIDTH
- (C) ERADICATE EXISTING PAVEMENT MARKINGS AND INSTALL TYPE B CLASS 1, WHITE 6' WIDTH, 10' LONG, 30' SPACING
- (D) ERADICATE EXISTING PAVEMENT MARKINGS AND INSTALL TYPE B CLASS 1, WHITE 6" WIDTH, 2' LONG, 4' SPACING
- (E) ERADICATE EXISTING PAVEMENT MARKINGS AND INSTALL TYPE B CLASS 1, YELLOW 6" WIDTH, 2' LONG, 4' SPACING
- (F) ERADICATE EXISTING PAVEMENT MARKINGS AND INSTALL TYPE B CLASS 1, WHITE 2' WIDTH, 10' LONG, 2' SPACING, HIGH INTENSITY CROSSWALK
- (G) INSTALL TYPE B CLASS 1, DOUBLE YELLOW 6" WIDTH
- (H) INSTALL TYPE B CLASS 1, WHITE DIRECTION ARROW
- (I) INSTALL TYPE B CLASS 1, WHITE SPECIAL MARKING 'BUS ONLY'
- (J) INSTALL TYPE B CLASS 1, WHITE 4" WIDTH



60% PLANS
NOT FOR CONSTRUCTION

No.	REVISIONS	DATE	BY

THE LANE CONSTRUCTION CORPORATION

STV Incorporated
Engineers / Architects / Planners / Construction Managers
2722 Merrilee Drive, Suite 350, Fairfax, VA 22031 (571)633-2220

CITY OF ALEXANDRIA VIRGINIA

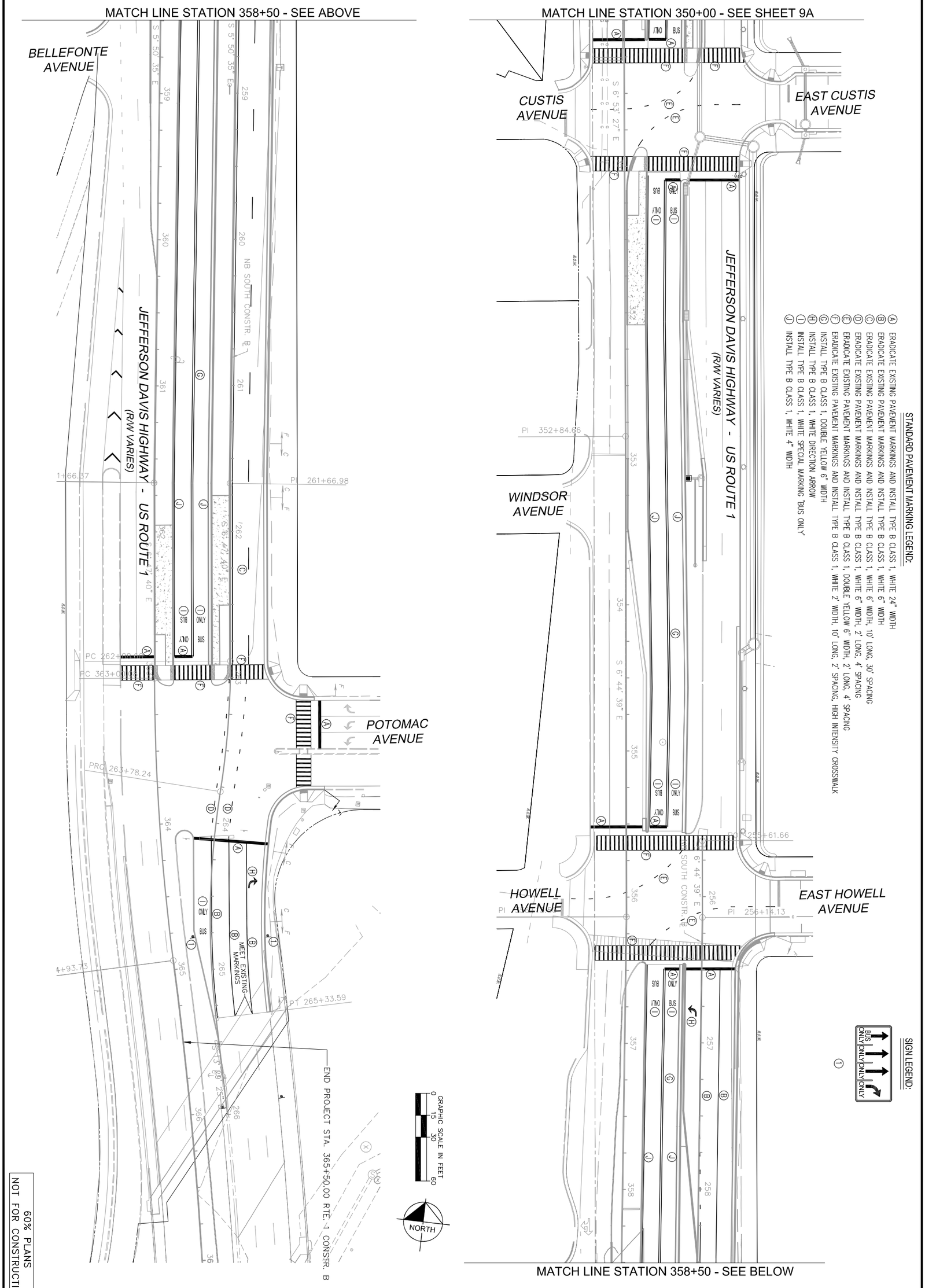
PROJECT NO. 2515453
DATE 03/28/12
SCALE: 1" = 30'-0"
DESIGNED BY: W.B.K.
DRAWN BY: R.W.M.
CHECKED BY: B.A.B.

PAVEMENT MARKINGS & SIGNING PLAN

JEFFERSON DAVIS HIGHWAY
ROUTE 1 FROM EAST GLEBE
ROAD TO POTOMAC AVENUE
BRT IMPROVEMENTS
DESIGN/BUILD

CITY OF ALEXANDRIA VIRGINIA

SHEET NUMBER
9A



SHEET NUMBER 9B

JEFFERSON DAVIS HIGHWAY
ROUTE 1 FROM EAST GLEBE
ROAD TO POTOMAC AVENUE
BRT IMPROVEMENTS
DESIGN/BUILD

CITY OF ALEXANDRIA VIRGINIA

PAVEMENT MARKINGS & SIGNING PLAN

PROJECT NO. 2515453
DATE 03/28/12
SCALE: 1"=30'-0"
DESIGNED BY: W.B.K.
DRAWN BY: R.W.M.
CHECKED BY: B.A.B.

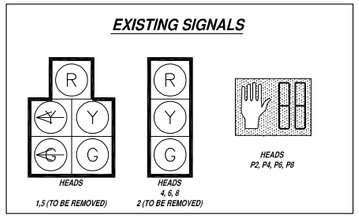
CITY OF ALEXANDRIA VIRGINIA

THE LANE CONSTRUCTION CORPORATION

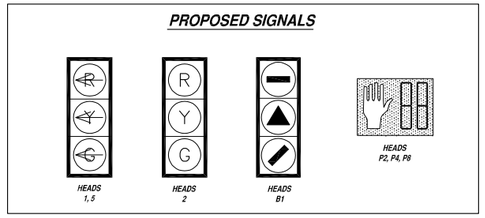
STV Incorporated
Engineers / Architects / Planners / Construction Managers
2722 Merrilee Drive, Suite 350, Fairfax, VA 22031 (571)633-2220

No.	REVISIONS	DATE	BY

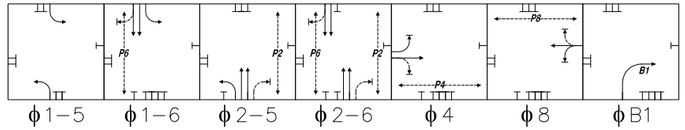
EXISTING SIGNALS



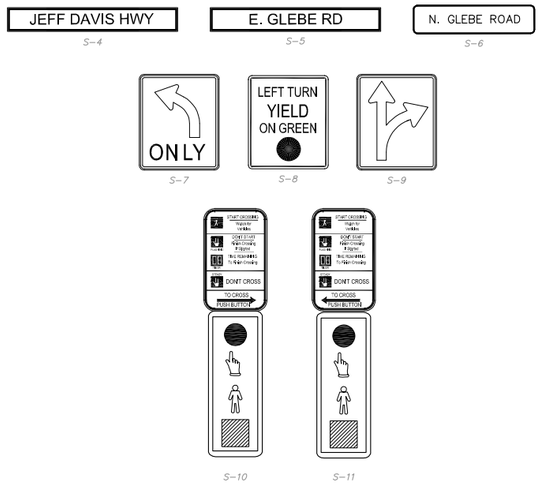
PROPOSED SIGNALS



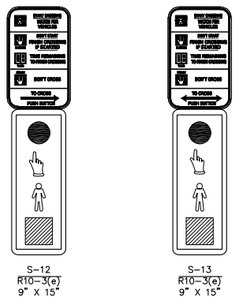
PROPOSED PHASING DIAGRAM

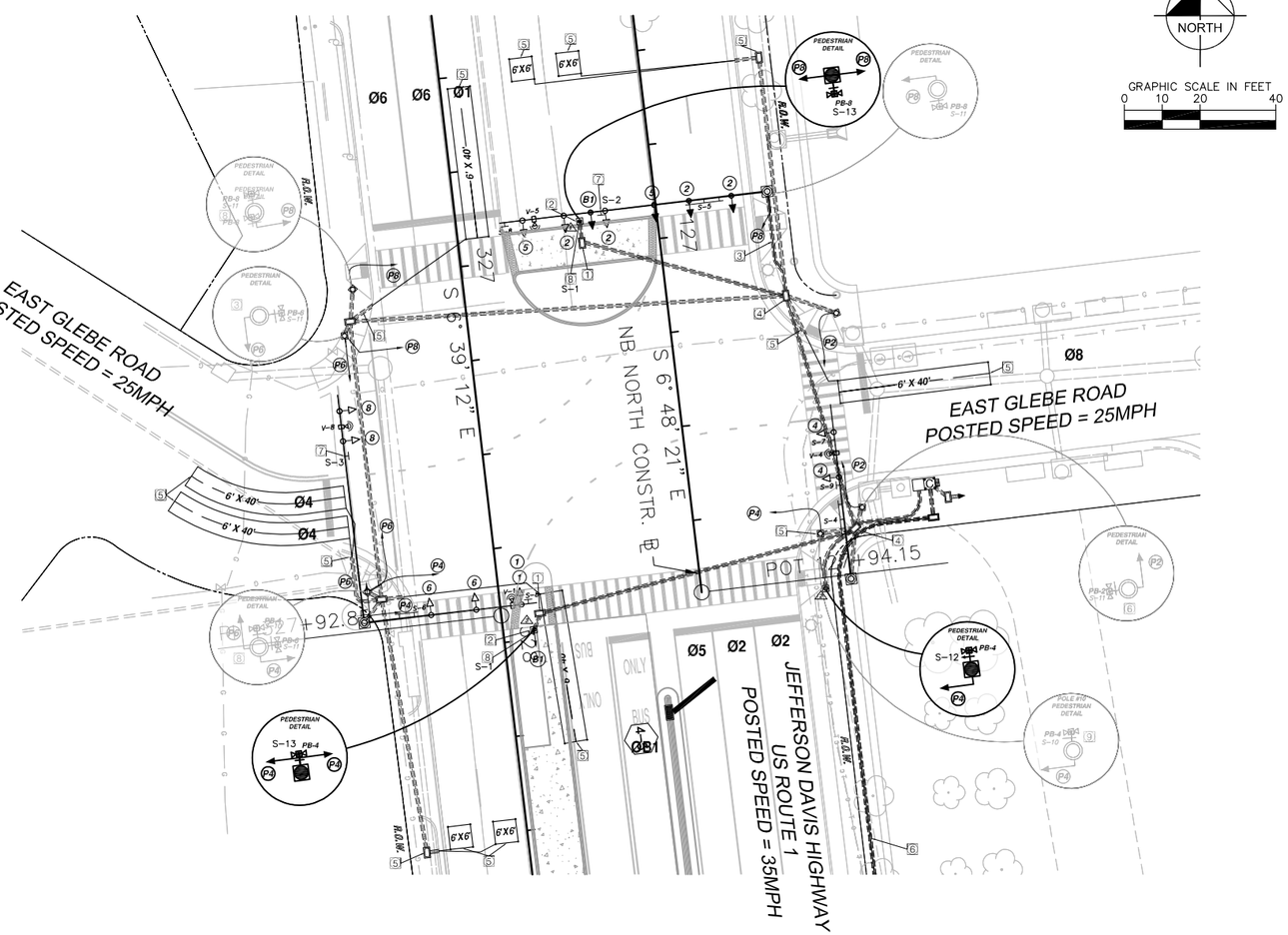


EXISTING SIGNS



PROPOSED ACCESSIBLE PEDESTRIAN PUSHBUTTON





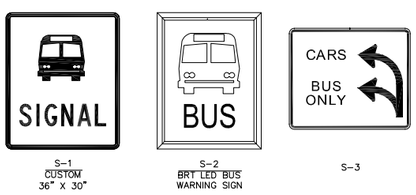
EXISTING VIDEO DETECTION

V1, V4, V5, V8

CONSTRUCTION NOTES

1. INSTALL JB-S3
2. INSTALL NEW 15' PEDESTAL POLE WITH PF-2 FOUNDATION AND BREAK-AWAY BASE
3. USE EXISTING CONDUIT
4. USE EXISTING JUNCTION BOX
5. REMOVE AND DISPOSE OR ABANDON EXISTING TRAFFIC SIGNAL EQUIPMENT
6. REMOVE INTERCONNECT CABLE AND RUN PROPOSED INTERCONNECT CABLE TO GLEBE RD CABINET.
7. INSTALL SIGN ON MAST ARM
8. INSTALL SIGN ON PEDESTAL POLE

PROPOSED SIGNS



LEGEND

EXISTING	PROPOSED	
		CONTROLLER CABINET WITH SWITCH AND METER ASSEMBLY
		TRAFFIC SIGNAL POLE
		10' PEDESTAL POLE
		TRAFFIC SIGNAL HEAD

PROPOSED POLE LEGEND

PROPOSED POLE	SOUTHBOUND STATION	OFFSET
△1	326+91	-32.7
△2	327+95	-107.1
△3	327+95	-8.2

60% PLANS
NOT FOR CONSTRUCTION

No.	REVISIONS	DATE	BY

THE LANE CONSTRUCTION CORPORATION

STV Incorporated
Engineers / Architects / Planners / Construction Managers
2722 Merrilee Drive, Suite 350, Fairfax, VA 22031 (571)633-2220

CITY OF ALEXANDRIA VIRGINIA

PROJECT NO. 2515453
DATE 03/28/12
SCALE: 1" = 20'–0"
DESIGNED BY: W.B.K.
DRAWN BY: R.W.M.
CHECKED BY: B.A.B.

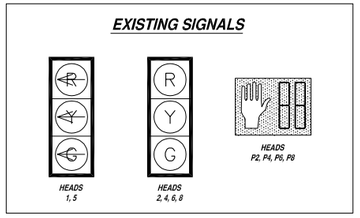
TRAFFIC SIGNAL MODIFICATION PLAN
RT. 1 & E. GLEBE RD.

JEFFERSON DAVIS HIGHWAY
ROUTE 1 FROM EAST GLEBE
ROAD TO POTOMAC AVENUE
BRT IMPROVEMENTS
DESIGN/BUILD

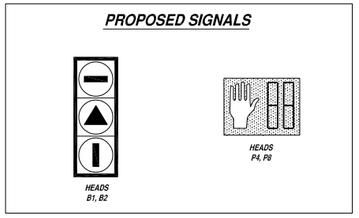
CITY OF ALEXANDRIA VIRGINIA

SHEET NUMBER
10

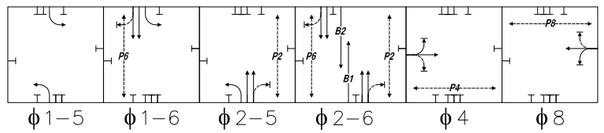
EXISTING SIGNALS



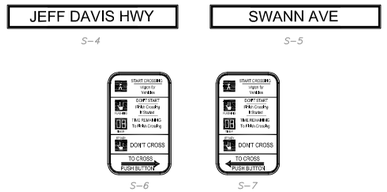
PROPOSED SIGNALS



PROPOSED PHASING DIAGRAM

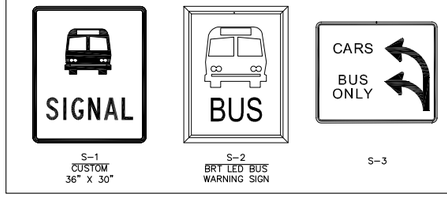


EXISTING SIGNS



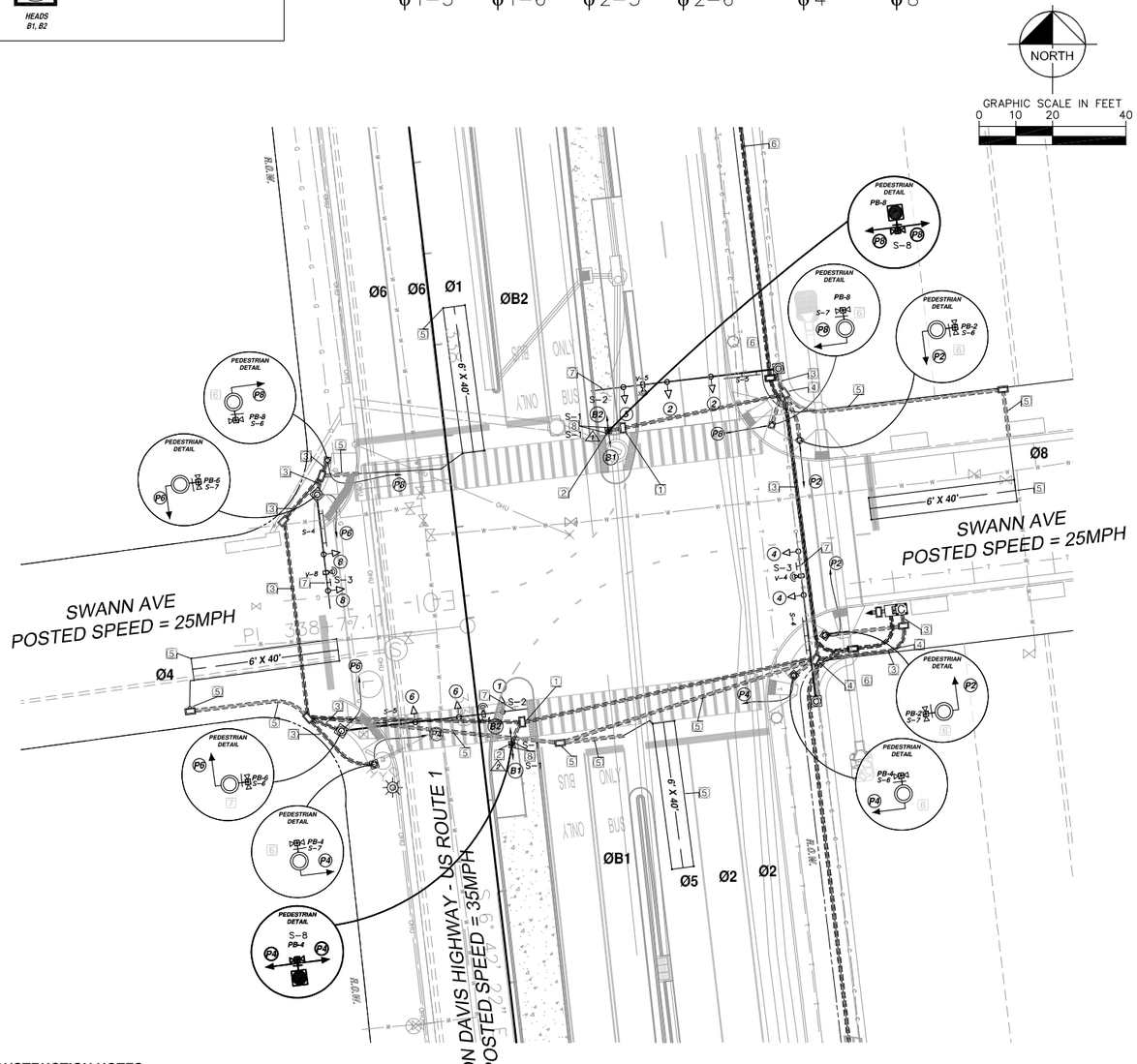
PROPOSED ACCESSIBLE PEDESTRIAN PUSHBUTTON

PROPOSED SIGNS



LEGEND

EXISTING	PROPOSED	
		CONTROLLER CABINET WITH SWITCH AND METER ASSEMBLY
		TRAFFIC SIGNAL POLE
		10' PEDESTAL POLE
		TRAFFIC SIGNAL HEAD



CONSTRUCTION NOTES

1. INSTALL JB-S3
2. INSTALL NEW 15' PEDESTAL POLE WITH PF-2 FOUNDATION AND BREAK-AWAY BASE
3. USE EXISTING CONDUIT
4. USE EXISTING JUNCTION BOX
5. REMOVE AND DISPOSE OR ABANDON EXISTING TRAFFIC SIGNAL EQUIPMENT
6. REMOVE INTERCONNECT CABLE AND RUN PROPOSED INTERCONNECT CABLE TO GLEBE RD CABINET.
7. INSTALL SIGN ON MAST ARM
8. INSTALL SIGN ON PEDESTAL POLE

EXISTING VIDEO DETECTION

V1, V4, V5, V8

PROPOSED POLE LEGEND

PROPOSED POLE	SOUTHBOUND STATION	OFFSET
△1	338+29	-44.3
△2	339+11	-8.3

60% PLANS
NOT FOR CONSTRUCTION

No.	REVISIONS	DATE	BY

THE LANE CONSTRUCTION CORPORATION

STV Incorporated
Engineers / Architects / Planners / Construction Managers
2722 Merrilee Drive, Suite 350, Fairfax, VA 22031 (571)633-2220

CITY OF ALEXANDRIA VIRGINIA

PROJECT NO. 2515453
DATE 03/28/12
SCALE: 1" = 20'-0"
DESIGNED BY: W.B.K.
DRAWN BY: R.W.M.
CHECKED BY: B.A.B.

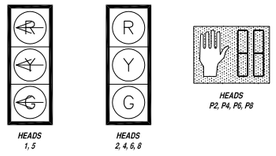
TRAFFIC SIGNAL MODIFICATION PLAN
RT. 1 & SWANN AVE.

JEFFERSON DAVIS HIGHWAY
ROUTE 1 FROM EAST GLEBE
ROAD TO POTOMAC AVENUE
BRT IMPROVEMENTS
DESIGN/BUILD

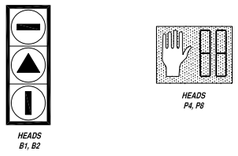
CITY OF ALEXANDRIA VIRGINIA

SHEET NUMBER
10A

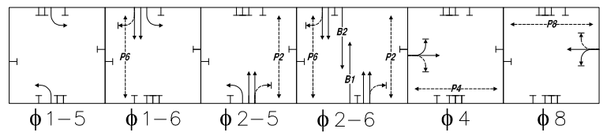
EXISTING SIGNALS



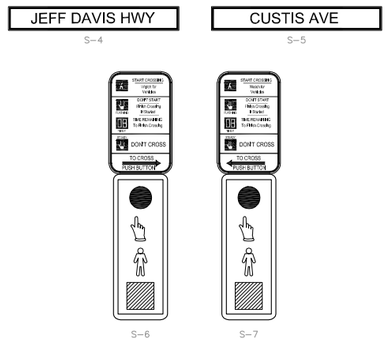
PROPOSED SIGNALS



PROPOSED PHASING DIAGRAM

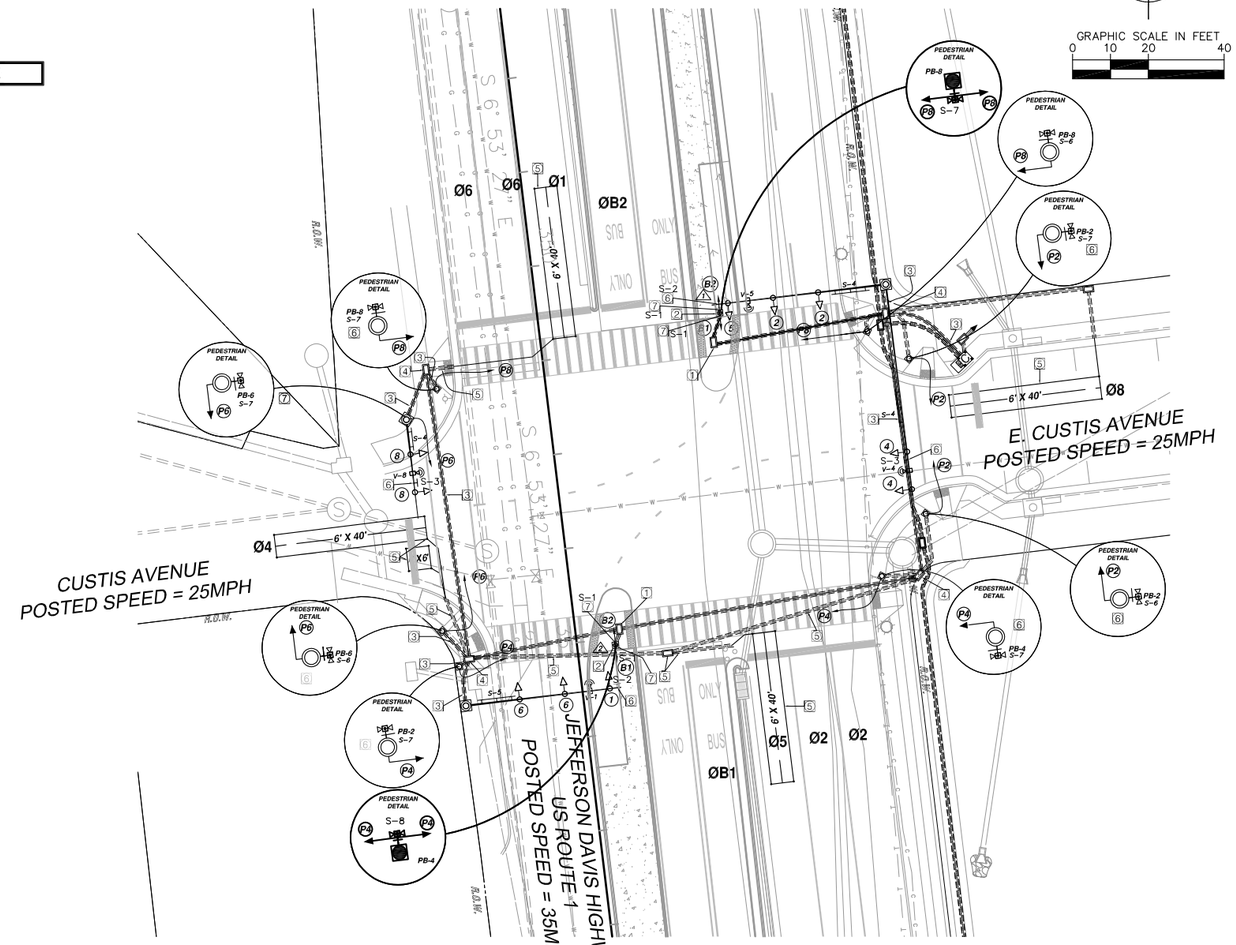


EXISTING SIGNS

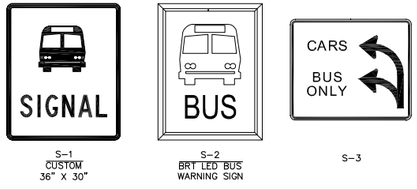


PROPOSED ACCESSIBLE PEDESTRIAN PUSHBUTTON

S–8
R10–3(MOD.)
9" X 15"



PROPOSED SIGNS

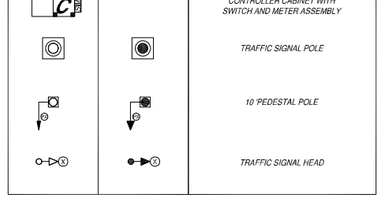


S–1
CUSTOM
36" X 30"

S–2
BRT LED BUS
WARNING SIGN

S–3

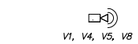
LEGEND



CONSTRUCTION NOTES

1. INSTALL JB-S3
2. INSTALL NEW 15' PEDESTAL POLE WITH PF-2 FOUNDATION AND BREAK-AWAY BASE
3. USE EXISTING CONDUIT
4. USE EXISTING JUNCTION BOX
5. REMOVE AND DISPOSE OR ABANDON EXISTING TRAFFIC SIGNAL EQUIPMENT
6. INSTALL SIGN ON MAST ARM
7. INSTALL SIGN ON PEDESTAL POLE

EXISTING VIDEO DETECTION



V1, V4, V5, V8

PROPOSED POLE LEGEND

PROPOSED POLE	SOUTHBOUND STATION	OFFSET
⚠	350+18	-47.9
⚠	351+02	-10.2

60% PLANS
NOT FOR CONSTRUCTION

No.	REVISIONS	DATE	BY

THE LANE CONSTRUCTION CORPORATION

STV Incorporated
Engineers / Architects / Planners / Construction Managers
2122 Sensor Drive, Suite 200, Dallas, VA 22001 (571)453-2200

CITY OF ALEXANDRIA VIRGINIA

PROJECT NO. 2515453
DATE 03/28/12
SCALE: 1" = 20'-0"
DESIGNED BY: W.B.K.
DRAWN BY: R.W.M.
CHECKED BY: B.A.B.

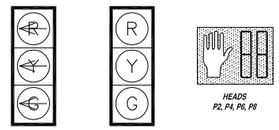
TRAFFIC SIGNAL MODIFICATION PLAN
RT. 1 & CUSTIS RD.

JEFFERSON DAVIS HIGHWAY
ROUTE 1 FROM EAST GLEBE
ROAD TO POTOMAC AVENUE
BRT IMPROVEMENTS
DESIGN/BUILD

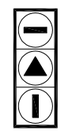
CITY OF ALEXANDRIA VIRGINIA

SHEET NUMBER
10B

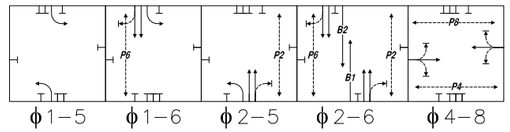
EXISTING SIGNALS



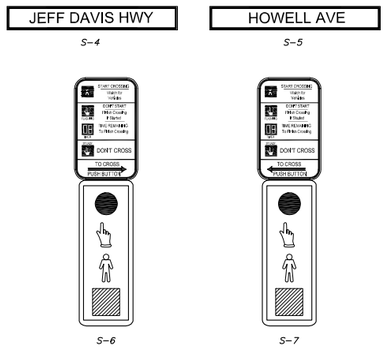
PROPOSED SIGNALS



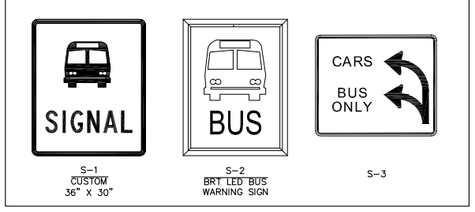
PROPOSED PHASING DIAGRAM



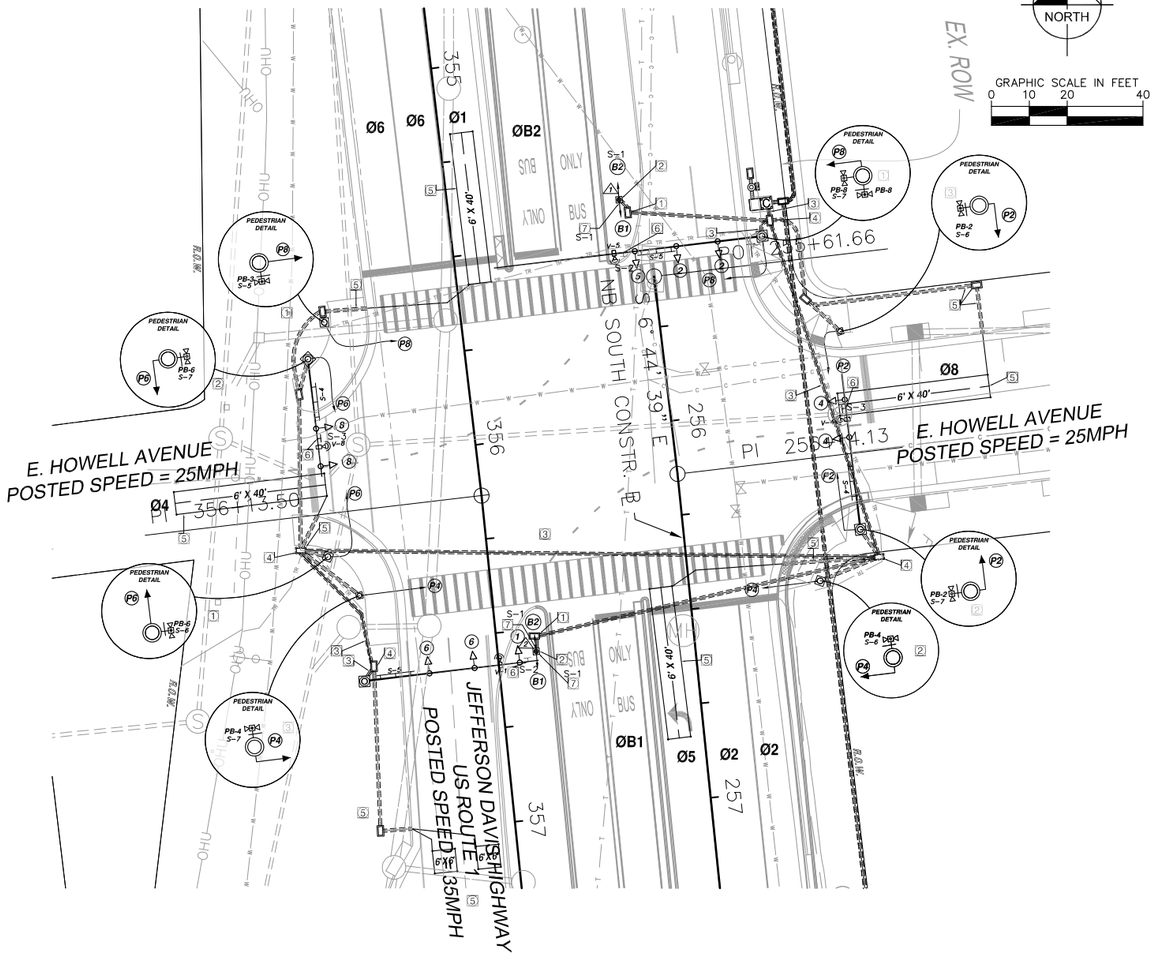
EXISTING SIGNS



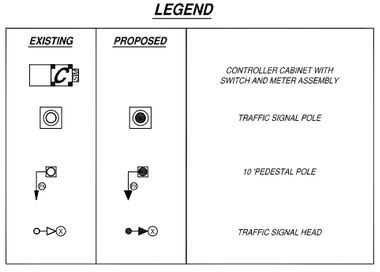
PROPOSED SIGNS



EXISTING VIDEO DETECTION



LEGEND



CONSTRUCTION NOTES

1. INSTALL JB-S3
2. INSTALL NEW 15' PEDESTAL POLE WITH PF-2 FOUNDATION AND BREAK-AWAY BASE
3. USE EXISTING CONDUIT
4. USE EXISTING JUNCTION BOX
5. REMOVE AND DISPOSE OR ABANDON EXISTING TRAFFIC SIGNAL EQUIPMENT
6. INSTALL SIGN ON MAST ARM
7. INSTALL SIGN ON PEDESTAL POLE

PROPOSED POLE LEGEND

PROPOSED POLE	SOUTHBOUND STATION	OFFSET
△1	355+40	-45.2
△2	356+56	-10.2

60% PLANS
NOT FOR CONSTRUCTION

No.	REVISIONS	DATE	BY

THE LANE CONSTRUCTION CORPORATION

STV Incorporated
Engineers / Architects / Planners / Construction Managers
2722 Merrilee Drive, Suite 350, Fairfax, VA 22031 (571)633-2220

CITY OF ALEXANDRIA VIRGINIA

PROJECT NO. 2515453
DATE 03/28/12
SCALE: 1" = 30'-0"
DESIGNED BY: W.B.K.
DRAWN BY: R.W.M.
CHECKED BY: B.A.B.

TRAFFIC SIGNAL MODIFICATION PLAN
RT. 1 & HOWELL AVE.

JEFFERSON DAVIS HIGHWAY
ROUTE 1 FROM EAST GLEBE
ROAD TO POTOMAC AVENUE
BRT IMPROVEMENTS
DESIGN/BUILD

CITY OF ALEXANDRIA VIRGINIA

SHEET NUMBER
10C