PROJECT MANAGER Wendy Block Sanford, City of Fairfax, (703) 385-7889
SURVEYED BY Rinker Design Assoc., P.C. (703) 368-7373
DESIGN SUPERVISED BY Mark Gunn, P.E., Rinker Design Assoc., P.C. (703) 368-7373
DESIGNED BY Adam D. Weischenbach, P.E., Rinker Design Assoc., P.C. (703) 368-7373

Rinker Design Associates, P.C.
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Office Locations
4101 Dickerson Boulevard, Suite 210, Manassas, VA 20110 Tel: (703) 368-7373 Fax: (703) 368-7374
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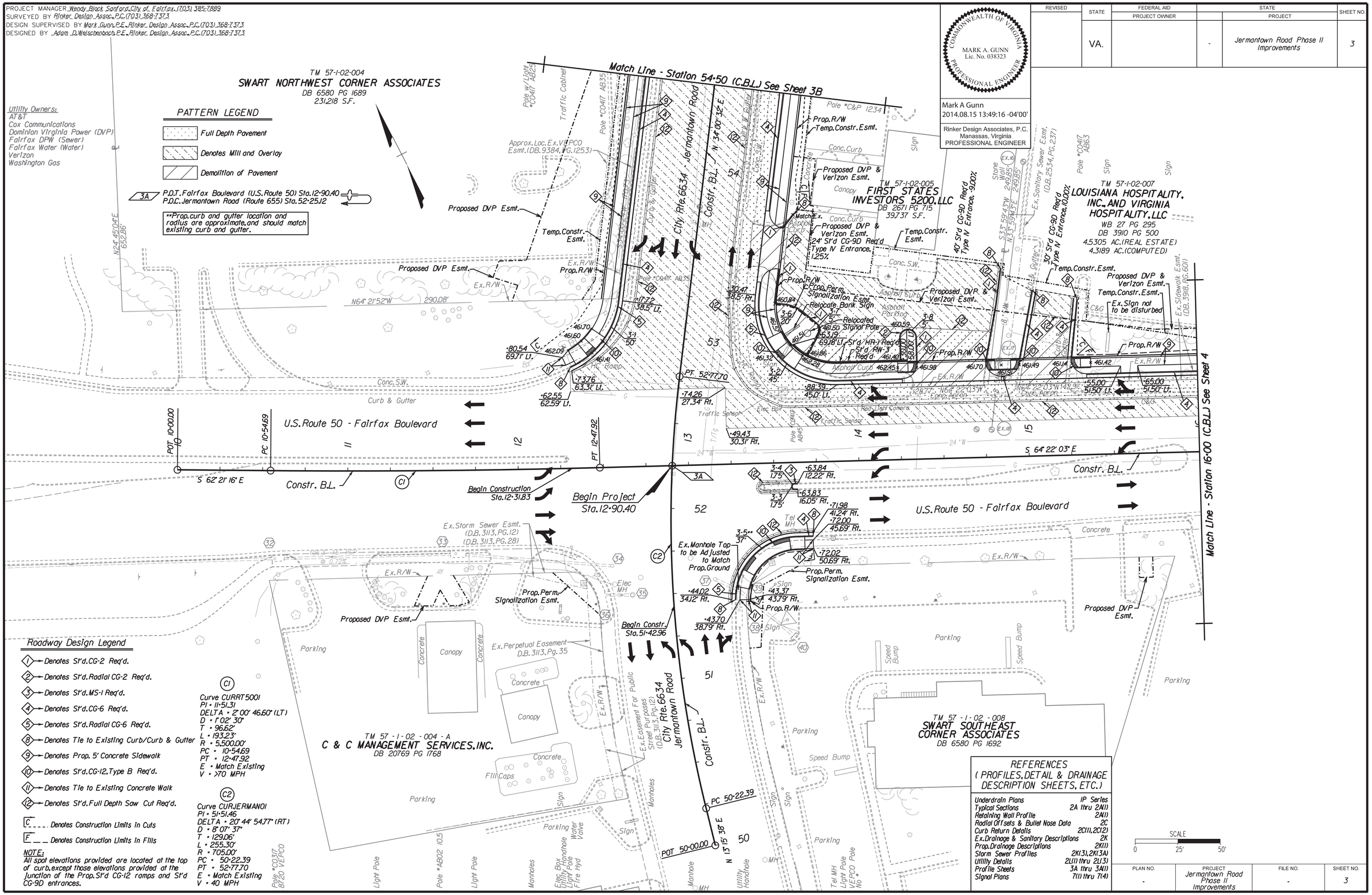
4101 Dickerson Boulevard, Suite 210, Manassas, VA 20110 Tel: (703) 368-7373 Fax: (703) 368-7374

CITY OF FAIRFAX



REVISED	STATE	FEDERAL AID PROJECT OWNER	STATE PROJECT	SHEET NO.
	VA.		- Jermantown Road Phase II Improvements	3

COMMONWEALTH OF VIRGINIA
MARK A. GUNN
Lic. No. 038323
PROFESSIONAL ENGINEER

Mark A Gunn
2014.08.15 13:49:16 -04'00'
Rinker Design Associates, P.C.
Manassas, Virginia
PROFESSIONAL ENGINEER

FINAL PLAN

8/15/2014

PROJECT MANAGER Wendy Black Sanford, City of Fairfax, (703) 385-7889
SURVEYED BY Rinker Design Assoc., P.C. (703) 368-7373
DESIGN SUPERVISED BY Mark Gunn, P.E., Rinker Design Assoc., P.C. (703) 368-7373
DESIGNED BY Adam D. Weischenbach, P.E., Rinker Design Assoc., P.C. (703) 368-7373

SCALE H: 25, V: 5 (0 1 2; 0 25' 50')

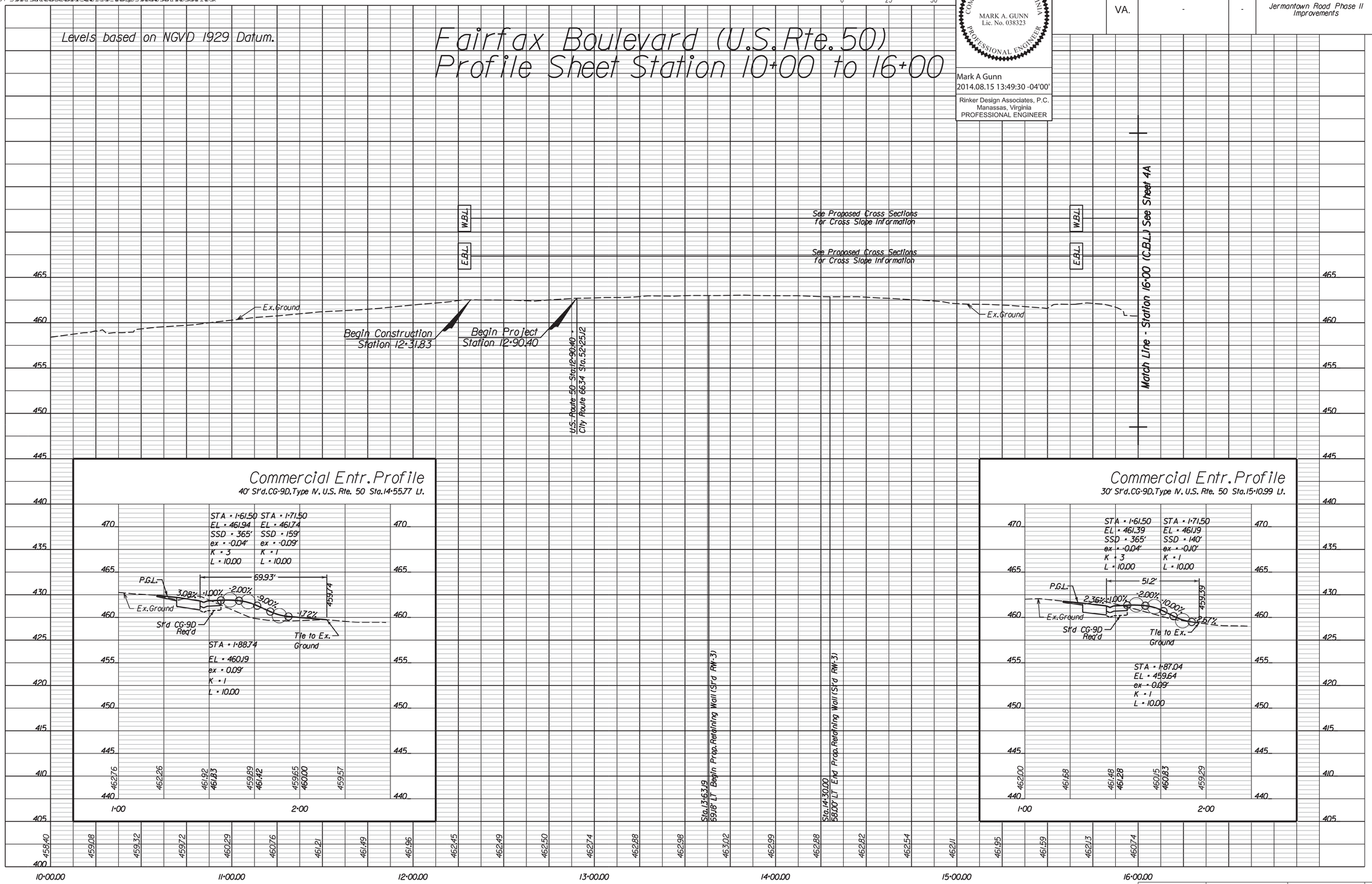
COMMONWEALTH OF VIRGINIA — MARK A. GUNN Lic. No. 038323 — PROFESSIONAL ENGINEER

Mark A Gunn
2014.08.15 13:49:30 -04'00'
Rinker Design Associates, P.C.
Manassas, Virginia
PROFESSIONAL ENGINEER

REVISED	STATE	FEDERAL AID PROJECT	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	-	-	Jermantown Road Phase II Improvements	3A

Levels based on NGVD 1929 Datum.

Fairfax Bouleyard (U.S. Rte. 50)
Profile Sheet Station 10+00 to 16+00



PLAN NO.	PROJECT	FILE NO.	SHEET NO.
-	Jermantown Road Phase II Improvements	-	3A

Rinker Design Associates, P.C.
Civil Engineering - Surveying - Land Planning
Transportation - Environmental
Right of Way Services
Office Locations
8321 Old Courthouse Road, Suite 200, Vienna, VA 22182, Tel: (703) 281-7450, Fax: (703) 281-9414
4229 Lafayette Center Drive, Suite 1950, Chantilly, VA 20151, Tel: (703) 368-7373, Fax: (703) 368-9671
4229 Lafayette Center Drive, Suite 1950, Chantilly, VA 20151, Tel: (703) 368-7373, Fax: (703) 368-9671
9500 Innovation Drive, Suite 200, Manassas, VA 20110, Tel: (703) 257-5144, Fax: (703) 257-5145
401 Commonwealth Avenue, Suite 2, Petersburg, VA 23803, Tel: (804) 861-1460, Fax: (804) 861-1461

CITY OF FAIRFAX

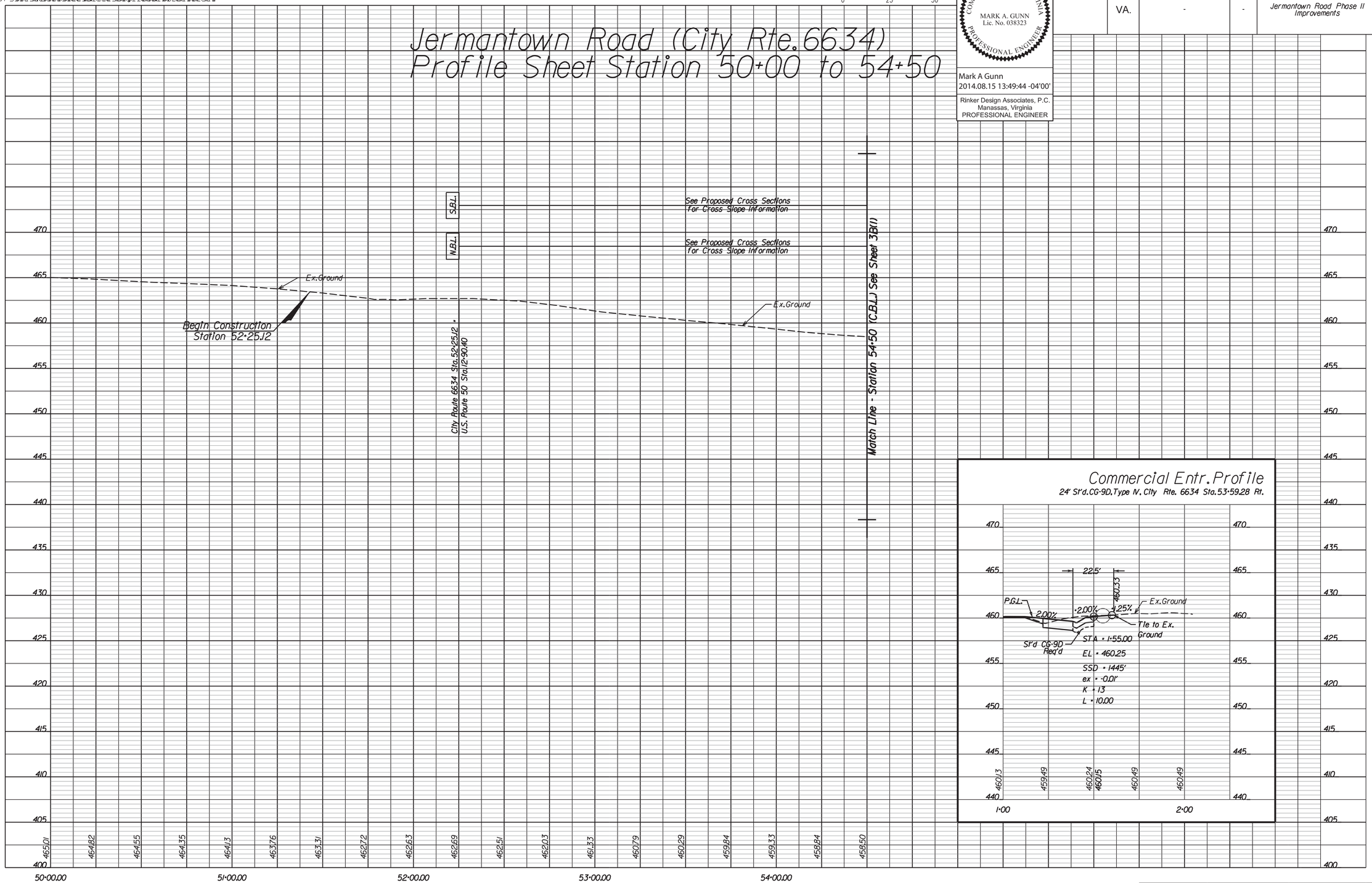
8/15/2014

FINAL PLANS

PROJECT MANAGER Wendy Black Sanford, City of Fairfax, (703) 385-7889
SURVEYED BY Rinker Design Assoc., P.C. (703) 368-7373
DESIGN SUPERVISED BY Mark Gunn, P.E., Rinker Design Assoc., P.C. (703) 368-7373
DESIGNED BY Adam D. Welschenbach, P.E., Rinker Design Assoc., P.C. (703) 368-7373

SCALE H= 25, V= 5 (0 25' 50'; 0 1 2)

Jermantown Road (City Rte. 6634)
Profile Sheet Station 50+00 to 54+50



MARK A. GUNN
Lic. No. 038323
COMMONWEALTH OF VIRGINIA
PROFESSIONAL ENGINEER

Mark A Gunn
2014.08.15 13:49:44 -04'00'

Rinker Design Associates, P.C.
Manassas, Virginia
PROFESSIONAL ENGINEER

REVISED	STATE	FEDERAL AID PROJECT	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	-	-	Jermantown Road Phase II Improvements	3A(1)

Rinker Design Associates, P.C.
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Office Locations
8229 Sudley Road, Suite 200, Manassas, VA 20109, Tel: (703) 368-7373, Fax: (703) 257-0344
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1000 Technology Park Drive, Suite 100, Fredericksburg, VA 22407, Tel: (540) 373-7373, Fax: (540) 373-0344
www.rinkerdesign.com

CITY OF FAIRFAX

8/15/2014

PLAN NO.	PROJECT	FILE NO.	SHEET NO.
-	Jermantown Road Phase II Improvements	-	3A(1)

FINAL PLANS

PROJECT MANAGER Wendy Block Sanford, City of Fairfax, (703) 385-7889
SURVEYED BY Rinker Design Assoc., P.C. (703) 368-7373
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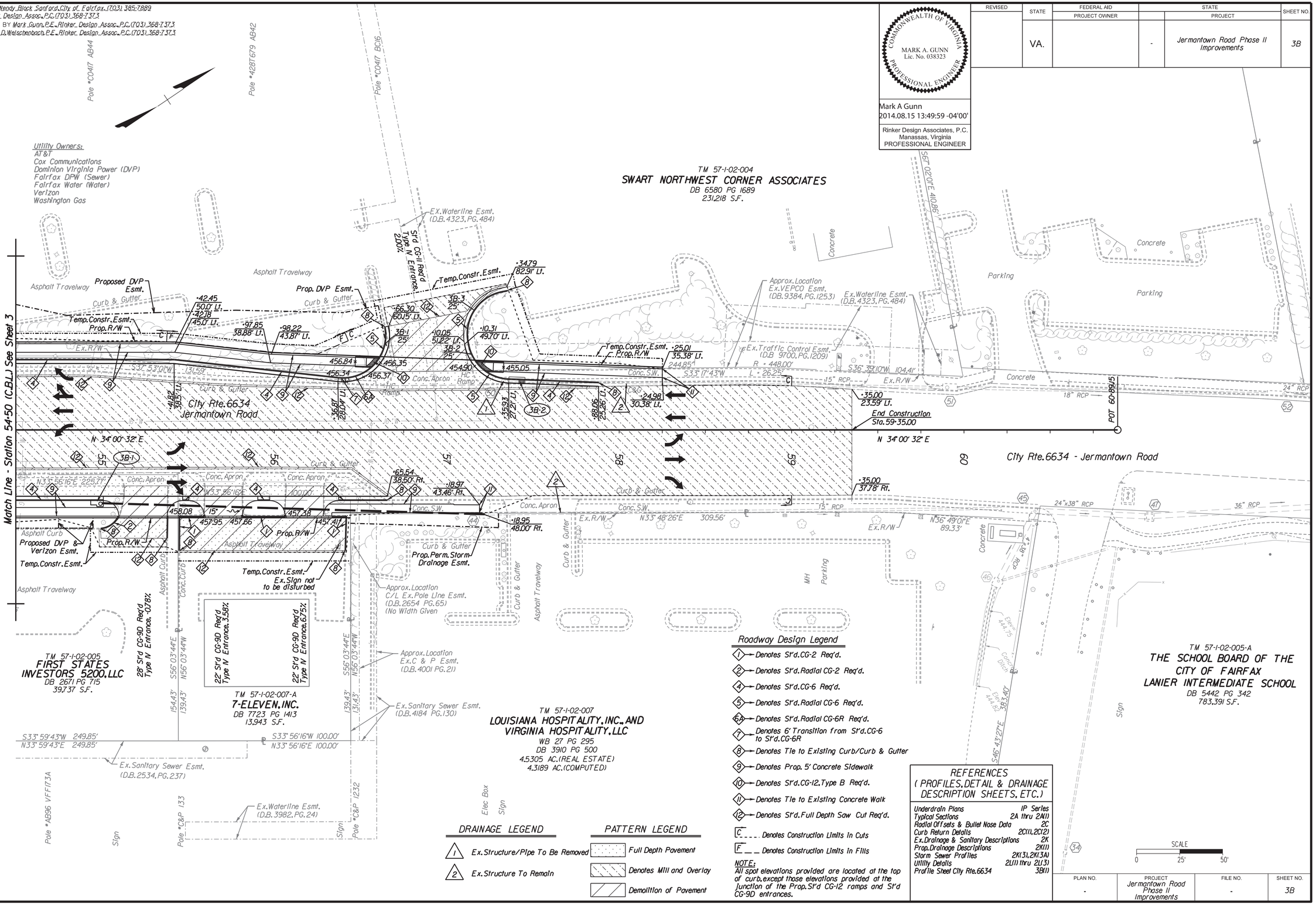
DESIGNED BY Adam D. Weischenbach, P.E., Rinker Design Assoc., P.C. (703) 368-7373

REVISED	STATE	FEDERAL AID PROJECT OWNER	STATE PROJECT		SHEET NO.
	VA.		-	Jermantown Road Phase II Improvements	3B

COMMONWEALTH OF VIRGINIA
MARK A. GUNN
Lic. No. 038323
PROFESSIONAL ENGINEER

Mark A Gunn
2014.08.15 13:49:59 -04'00'
Rinker Design Associates, P.C.
Manassas, Virginia
PROFESSIONAL ENGINEER



FINAL PLAN

Rinker Design Associates, P.C.
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CITY OF FAIRFAX

8/15/2014

PROJECT MANAGER Wendy Block Sanford, City of Fairfax, (703) 385-7889
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DESIGNED BY Adam D. Weischenbach, P.E., Rinker Design Assoc., P.C. (703) 368-7373

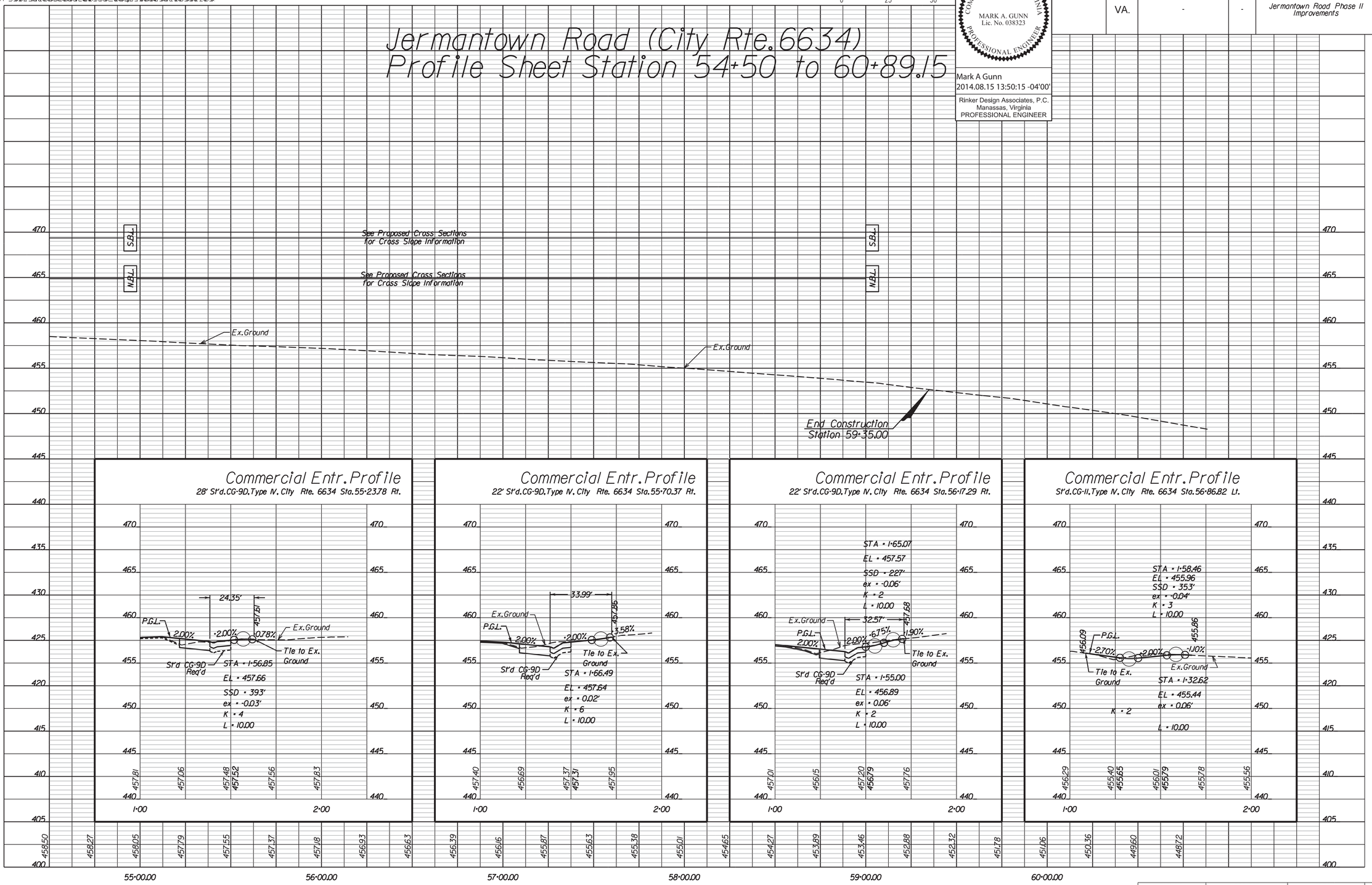
SCALE H: 25, V: 5 (0 25' 50'; 0 1 2)

REVISED	STATE	FEDERAL AID PROJECT	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	-	-	Jermantown Road Phase II Improvements	3B(1)

COMMONWEALTH OF VIRGINIA
MARK A. GUNN
Lic. No. 038323
PROFESSIONAL ENGINEER

Mark A Gunn
2014.08.15 13:50:15 -04'00'
Rinker Design Associates, P.C.
Manassas, Virginia
PROFESSIONAL ENGINEER

Jermantown Road (City Rte. 6634)
Profile Sheet Station 54+50 to 60+89.15



PLAN NO.	PROJECT	FILE NO.	SHEET NO.
-	Jermantown Road Phase II Improvements	-	3B(1)

FINAL PLANS

Rinker Design Associates, P.C.
Civil Engineering - Surveying - Land Planning
Transportation - Environmental
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Office Locations
9101 Digges Corner Drive, Suite 100, Bethesda, MD 20817, Tel: (301) 530-4455, Fax: (301) 530-4451
4101 Dominion Boulevard, Suite 100, Glen Allen, VA 23060, Tel: (804) 747-1758, Fax: (804) 747-1760
9990 Lee Highway, Suite 300, Fairfax, VA 22030, Tel: (703) 385-7889, Fax: (703) 273-7441
8/15/2014

CITY OF FAIRFAX

PROJECT MANAGER Wendy Block Sanford, City of Fairfax, (703) 385-7889
SURVEYED BY Rinker Design Assoc., P.C. (703) 368-7373
DESIGN SUPERVISED BY Mark Gunn, P.E., Rinker Design Assoc., P.C. (703) 368-7373
DESIGNED BY Adam D. Weischenbach, P.E., Rinker Design Assoc., P.C. (703) 368-7373

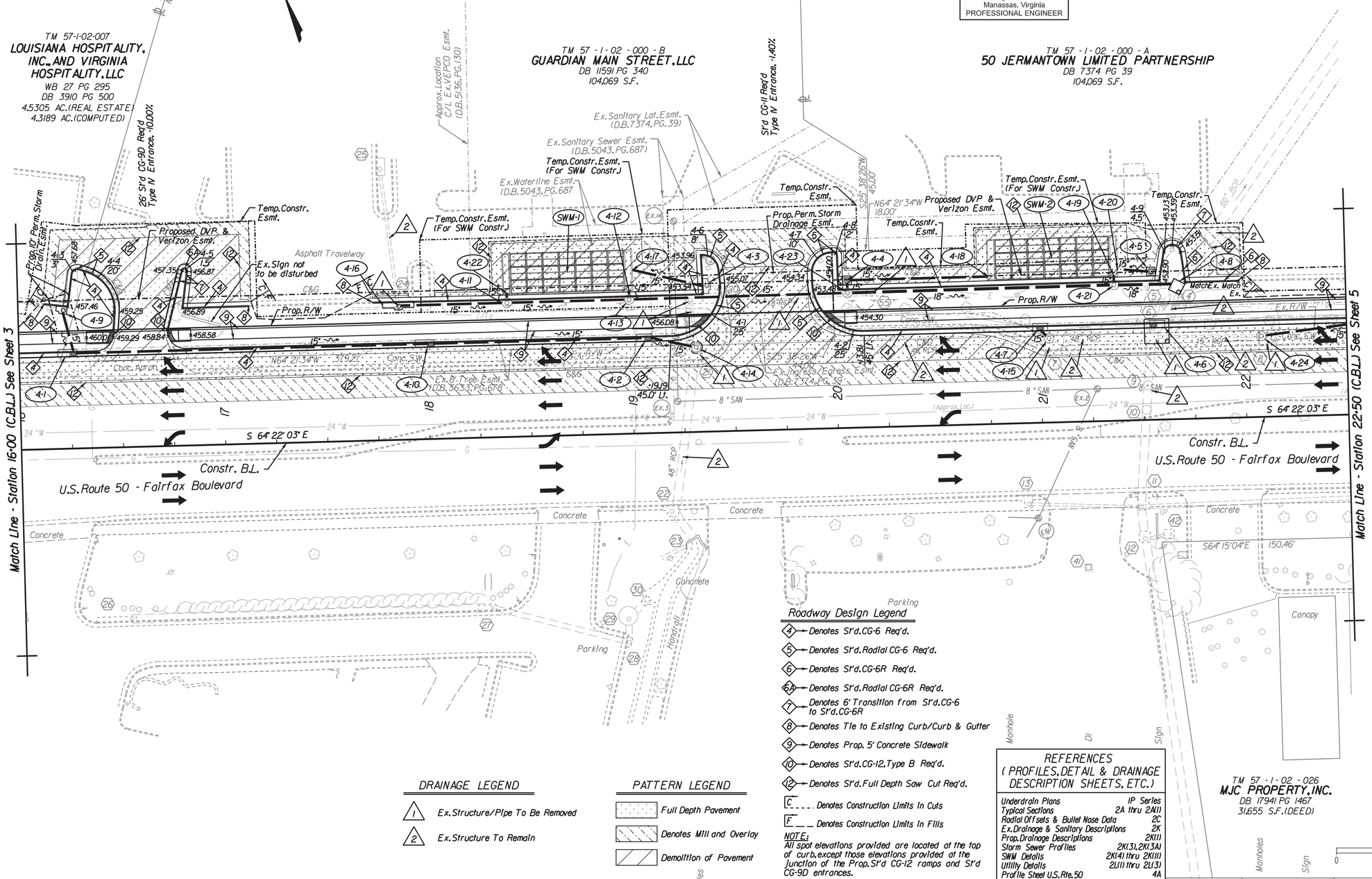
Rinker Design Associates, P.C.
Civil Engineering · Surveying · Land Planning
Transportation · Environmental
Right of Way Services
Office Locations
4651 Daniels Parkway, Suite 200, Fort Myers, FL 33912 Tel: (239) 277-0011 Fax: (239) 277-0012
4651 Dorsey Hill Road, Suite 100, Flowery Branch, GA 30542 Tel: (770) 967-9160 Fax: (770) 967-9161
4651 Shenandoah Avenue, Roanoke, VA 24018 Tel: (540) 772-4927 Fax: (540) 772-4928
4651 Dorsey Hill Road, Suite 100, Flowery Branch, GA 30542 Tel: (770) 967-9160 Fax: (770) 967-9161
4651 Shenandoah Avenue, Roanoke, VA 24018 Tel: (540) 772-4927 Fax: (540) 772-4928

REVISED	STATE	FEDERAL AID PROJECT OWNER	STATE PROJECT	SHEET NO.
	VA.		- Jermantown Road Phase II Improvements	4

COMMONWEALTH OF VIRGINIA
MARK A. GUNN
Lic. No. 038323
PROFESSIONAL ENGINEER

Mark A Gunn
2014.08.15 13:50:28 -04'00'

Rinker Design Associates, P.C.
Manassas, Virginia
PROFESSIONAL ENGINEER



Roadway Design Legend

- 4 → Denotes St'd.CG-6 Req'd.
- 5 → Denotes St'd.Radial CG-6 Req'd.
- 6 → Denotes St'd.CG-6R Req'd.
- 6R → Denotes St'd.Radial CG-6R Req'd.
- 7 → Denotes 6' Transition from St'd.CG-6 to St'd.CG-6R
- 8 → Denotes Tie to Existing Curb/Curb & Gutter
- 9 → Denotes Prop. 5' Concrete Sidewalk
- 10 → Denotes St'd.CG-12, Type B Req'd.
- 12 → Denotes St'd.Full Depth Saw Cut Req'd.
- C _ _ _ _ Denotes Construction Limits In Cuts
- F _ _ _ Denotes Construction Limits In Fills

NOTE:
All spot elevations provided are located at the top of curb, except those elevations provided at the junction of the Prop. St'd CG-12 ramps and St'd CG-9D entrances.

DRAINAGE LEGEND

- 1 Ex. Structure/Pipe To Be Removed
- 2 Ex. Structure To Remain

PATTERN LEGEND

- Full Depth Pavement
- Denotes Mill and Overlay
- Demolition of Pavement

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Underdrain Plans	IP Series
Typical Sections	2A thru 2A(1)
Radial Offsets & Bullet Nose Data	2C
Ex. Drainage & Sanitary Descriptions	2K
Prop. Drainage Descriptions	2K(1)
Storm Sewer Profiles	2K(3), 2K(3A)
SWM Details	2K(4) thru 2K(11)
Utility Details	2L(1) thru 2L(3)
Profile Sheet U.S. Rte. 50	4A

PLAN NO.	PROJECT	FILE NO.	SHEET NO.
-	Jermantown Road Phase II Improvements	-	4

CITY OF FAIRFAX

8/15/2014

FINAL PLAN

PROJECT MANAGER Wendy Black Sanford, City of Fairfax, (703) 385-7889
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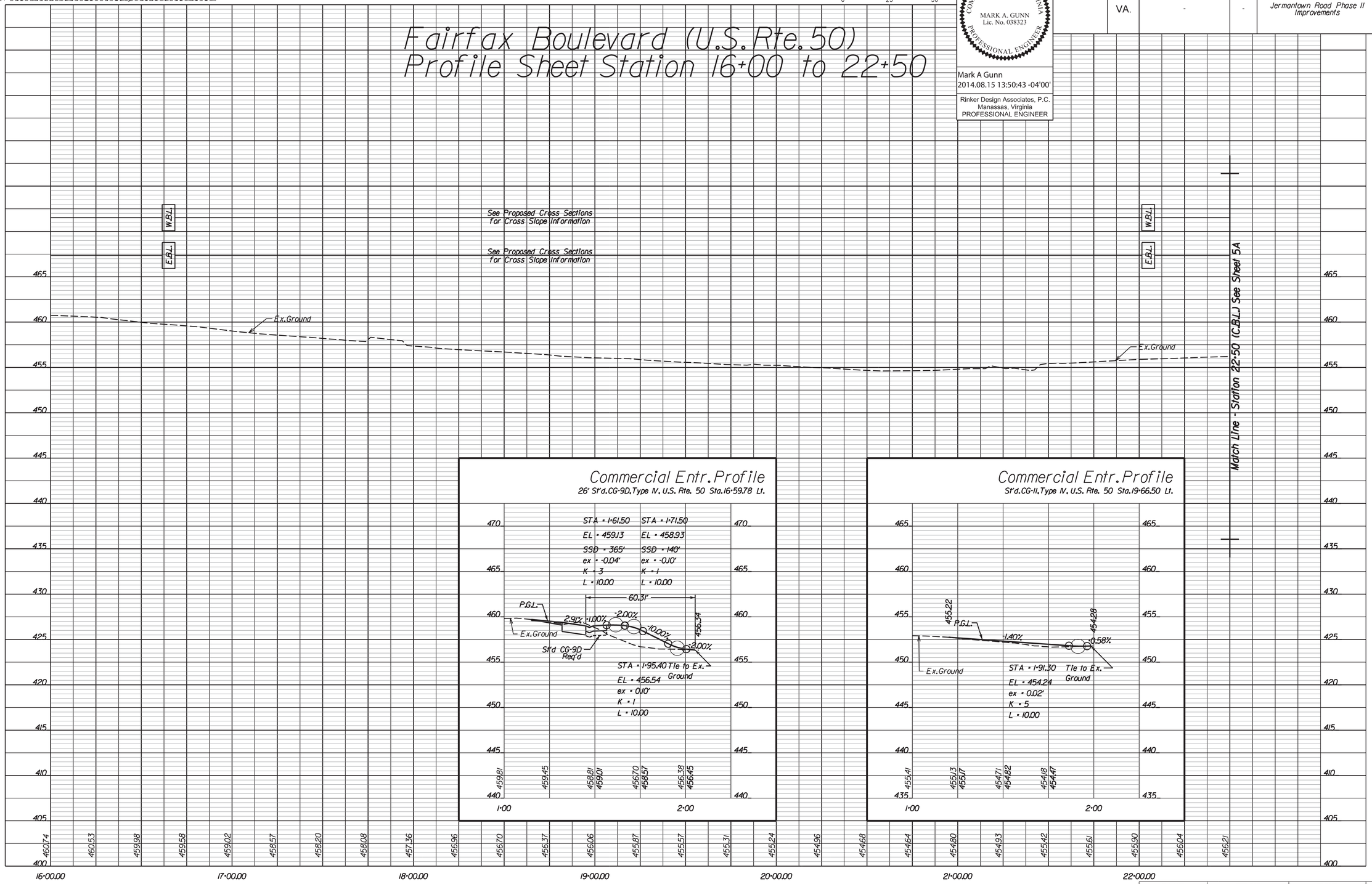
SCALE H= 25, V= 5 (0 25' 50'; 0 1' 2')

Fairfax Boulevard (U.S. Rte. 50)
Profile Sheet Station 16+00 to 22+50

COMMONWEALTH OF VIRGINIA
MARK A. GUNN
Lic. No. 038323
PROFESSIONAL ENGINEER

Mark A Gunn
2014.08.15 13:50:43 -04'00'
Rinker Design Associates, P.C.
Manassas, Virginia
PROFESSIONAL ENGINEER

REVISED	STATE	FEDERAL AID PROJECT	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	-	-	Jermantown Road Phase II Improvements	4A



PLAN NO.	PROJECT	FILE NO.	SHEET NO.
-	Jermantown Road Phase II Improvements	-	4A

FINAL PLANS

Rinker Design Associates, P.C.
Civil Engineering - Surveying - Land Planning
Transportation - Environmental
Right of Way Services
Office Locations
8001 Derbyshire Boulevard, Suite 100, Fairfax, VA 22031
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Tel: (703) 368-7373
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Tel: (703) 368-7373
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Tel: (703) 368-7373
CITY OF FAIRFAX
8/15/2014

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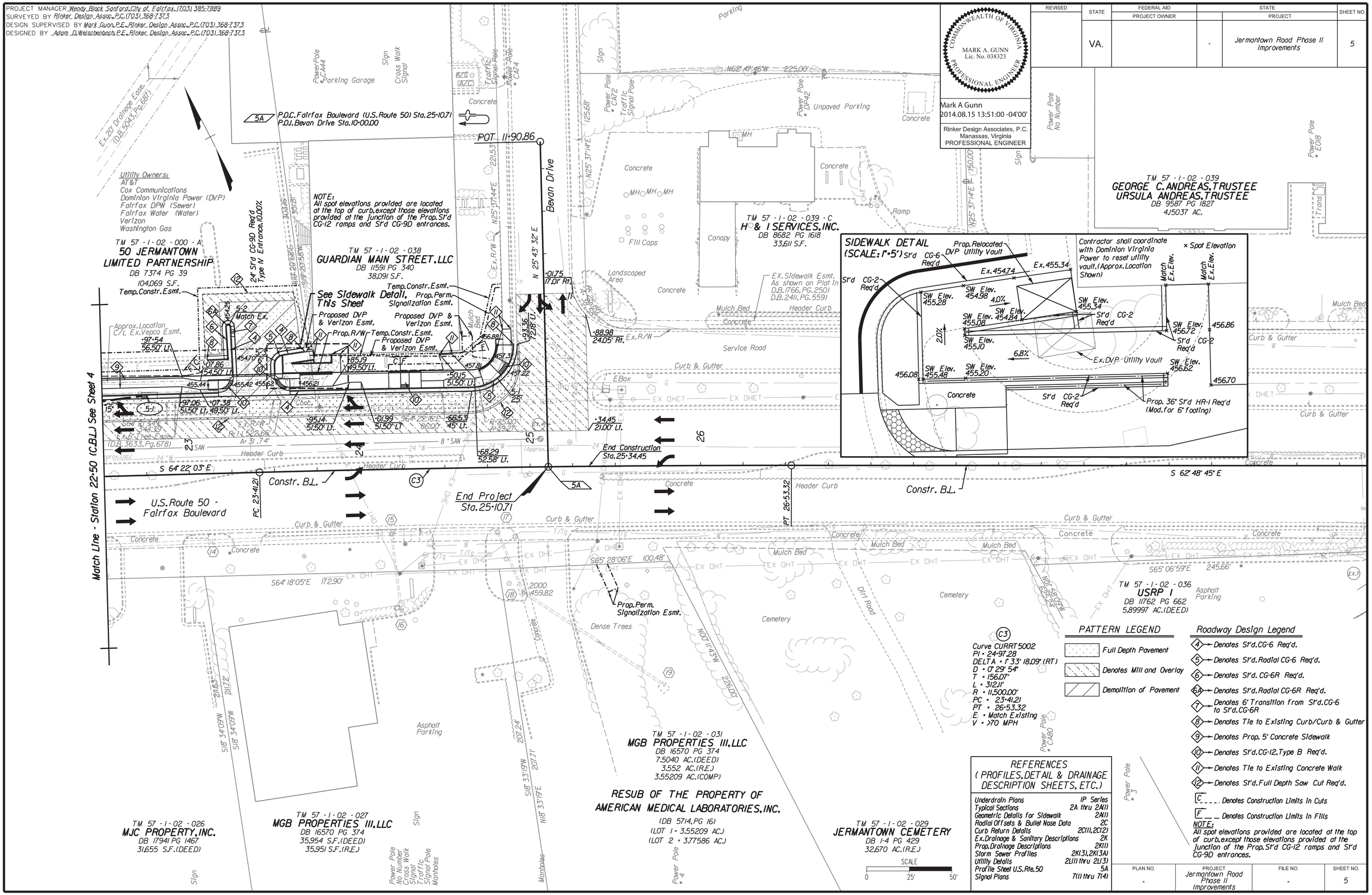
Right of Way Services
Office Locations
Manassas, VA 20110 Tel: (703) 368-7373
Gainesville, VA 20155 Tel: (703) 368-7373
Olney, MD, VA 20832 Tel: (301) 924-3400
Fax: (301) 924-3401
Fredericksburg, VA 22407 Tel: (540) 373-8711
Fax: (540) 373-8711

CITY OF FAIRFAX



REVISED	STATE	FEDERAL AID PROJECT OWNER	STATE PROJECT	SHEET NO.
	VA.		- Jermantown Road Phase II Improvements	5

PLAN NO.	PROJECT	FILE NO.	SHEET NO.
-	Jermantown Road Phase II Improvements	-	5

8/15/2014

FINAL PLAN

PROJECT MANAGER Wendy Black Sanford, City of Fairfax, (703) 385-7889
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DESIGNED BY Adam D. Welschenbach, P.E., Rinker Design Assoc., P.C. (703) 368-7373

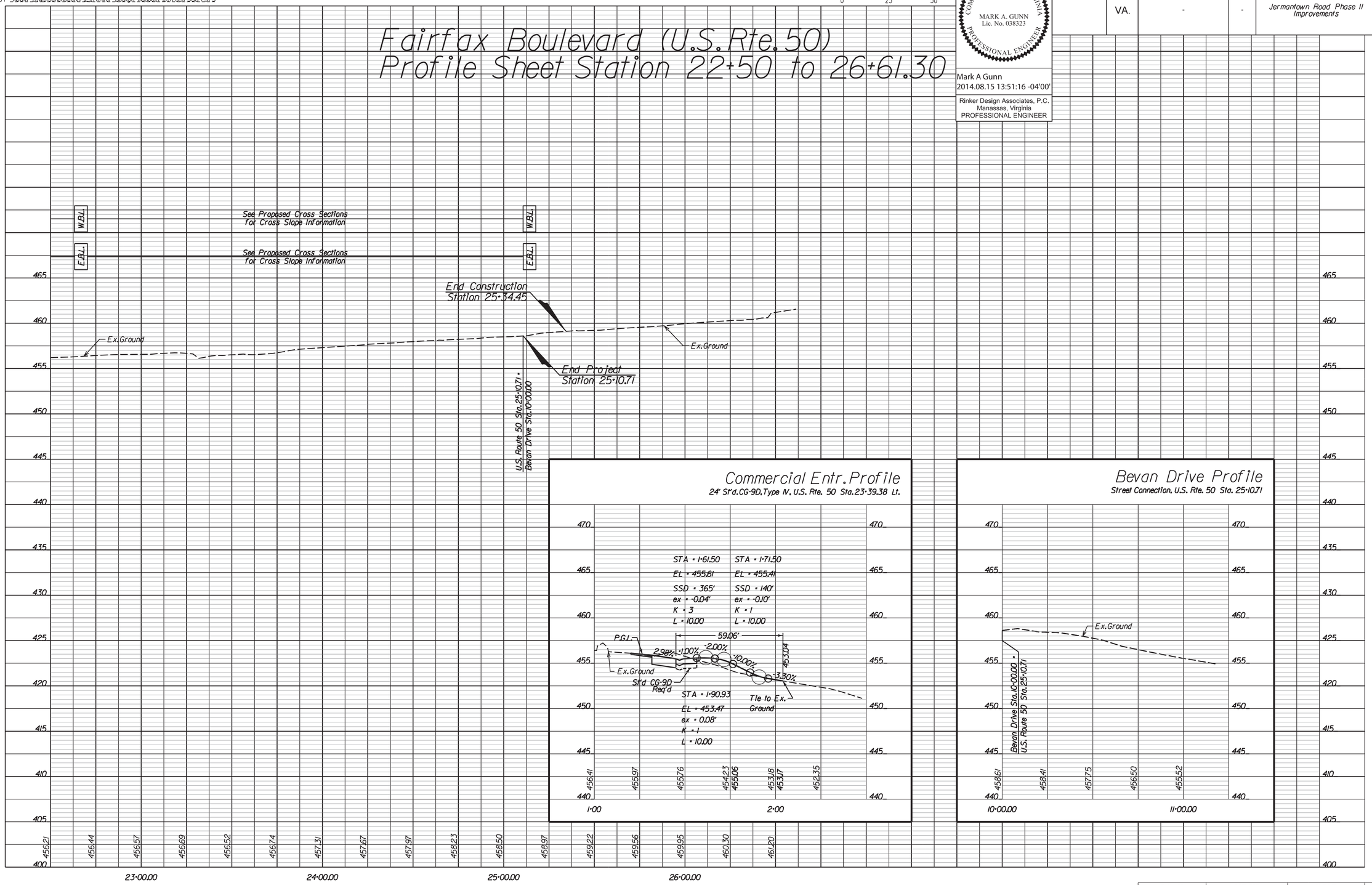
SCALE H= 25, V= 5 (0 25' 50'; 0 1 2)

Fairfax Boulevard (U.S. Rte. 50)
Profile Sheet Station 22+50 to 26+61.30

COMMONWEALTH OF VIRGINIA
MARK A. GUNN
Lic. No. 038323
PROFESSIONAL ENGINEER

Mark A Gunn
2014.08.15 13:51:16 -04'00'
Rinker Design Associates, P.C.
Manassas, Virginia
PROFESSIONAL ENGINEER

REVISED	STATE	FEDERAL AID PROJECT	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	-	-	Jermantown Road Phase II Improvements	5A



PLAN NO.	PROJECT	FILE NO.	SHEET NO.
-	Jermantown Road Phase II Improvements	-	5A

FINAL PLANS

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Office Locations
8/15/2014
CITY OF FAIRFAX

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4651 Dickerson Boulevard, Suite 100, Manassas, VA 20109, Tel: (540) 373-9445, Fax: (540) 373-9445
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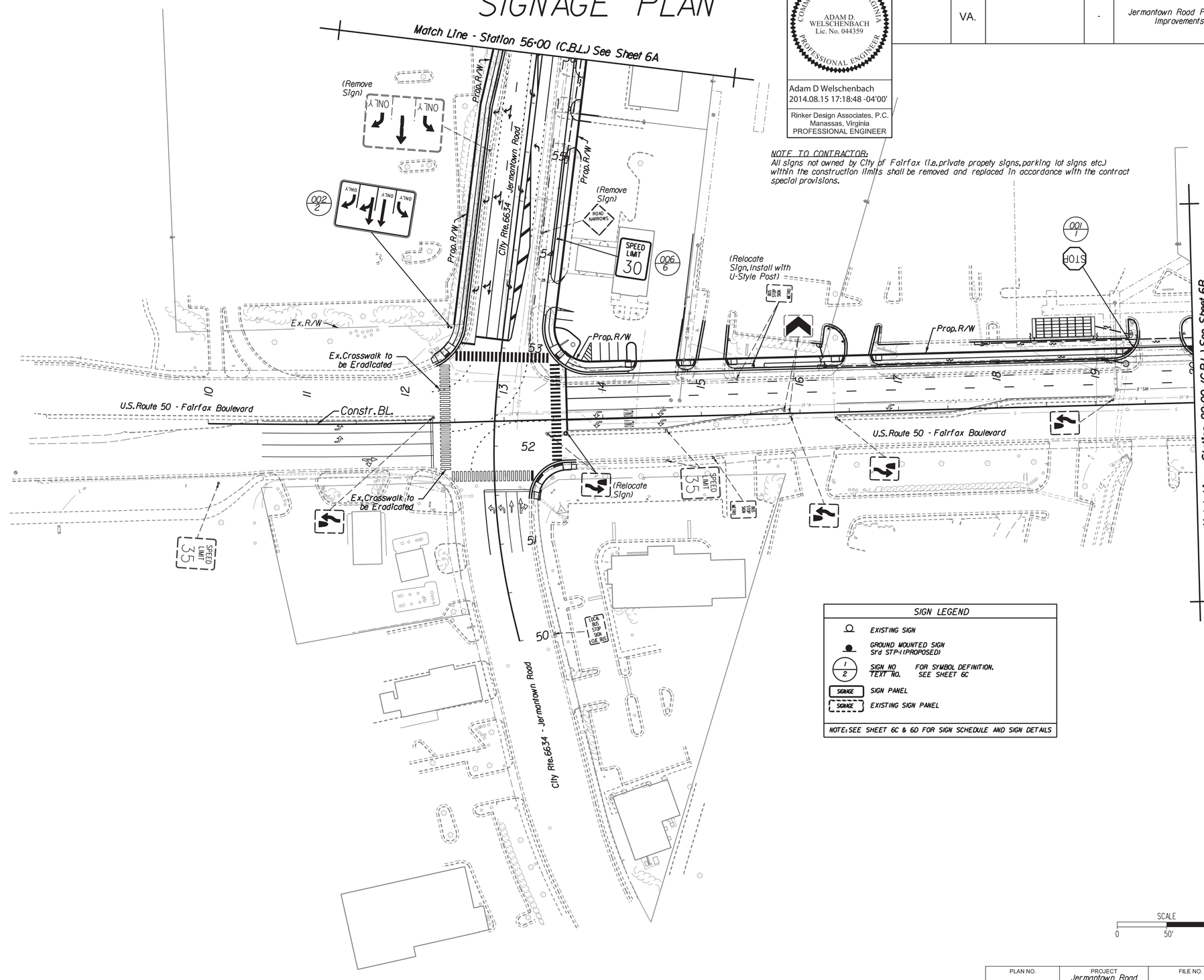
SIGNAGE PLAN



NOTE TO CONTRACTOR:
All signs not owned by City of Fairfax (i.e. private propety signs, parking lot signs etc.) within the construction limits shall be removed and replaced in accordance with the contract special provisions.

SIGN LEGEND

	EXISTING SIGN
	GROUND MOUNTED SIGN Std STP-1 (PROPOSED)
1/2	SIGN NO / TEXT NO. — FOR SYMBOL DEFINITION, SEE SHEET 6C
SIGNAGE	SIGN PANEL
SIGNAGE	EXISTING SIGN PANEL

NOTE: SEE SHEET 6C & 6D FOR SIGN SCHEDULE AND SIGN DETAILS

SCALE
0 50' 100'

COMMONWEALTH OF VIRGINIA
ADAM D. WELSCHENBACH
Lic. No. 044359
PROFESSIONAL ENGINEER

Adam D Welschenbach
2014.08.15 17:18:48 -04'00'

Rinker Design Associates, P.C.
Manassas, Virginia
PROFESSIONAL ENGINEER

REVISED	STATE	FEDERAL AID PROJECT OWNER	STATE PROJECT		SHEET NO.
	VA.		-	Jermantown Road Phase II Improvements	6

PLAN NO.	PROJECT	FILE NO.	SHEET NO.
-	Jermantown Road Phase II Improvements	-	6

8/15/2014

FINAL PLAN

PROJECT MANAGER Wendy Block Sanford, City of Fairfax, (703) 385-7889
SURVEYED BY Rinker Design Assoc., P.C. (703) 368-7373
DESIGN SUPERVISED BY Mark Gunn, P.E., Rinker Design Assoc., P.C. (703) 368-7373
DESIGNED BY Adam D. Welschenbach, P.E., Rinker Design Assoc., P.C. (703) 368-7373

SIGNAGE PLAN

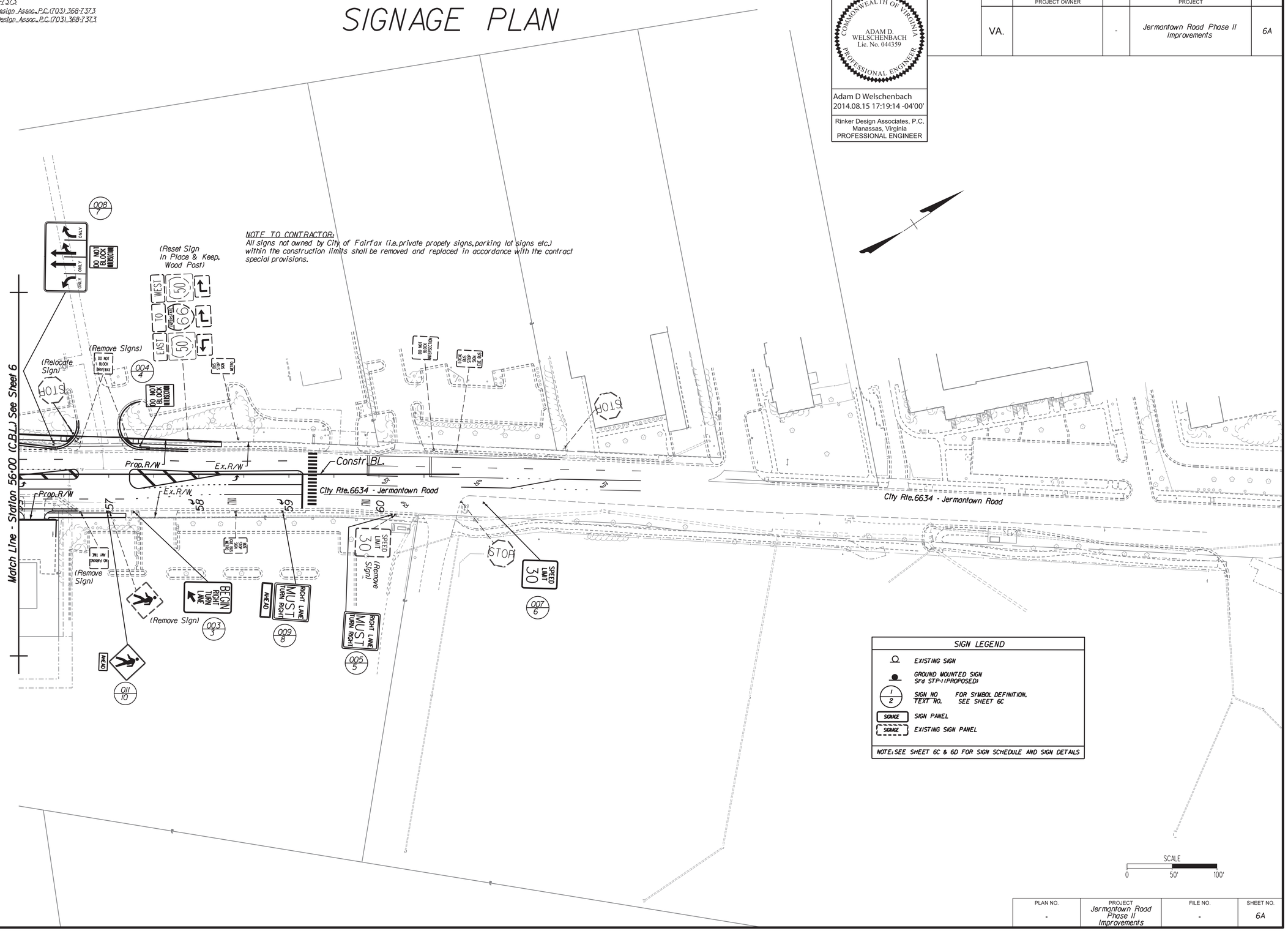
REVISED	STATE	FEDERAL AID PROJECT OWNER	STATE PROJECT		SHEET NO.
	VA.		-	Jermantown Road Phase II Improvements	6A

COMMONWEALTH OF VIRGINIA
ADAM D. WELSCHENBACH
Lic. No. 044359
PROFESSIONAL ENGINEER

Adam D Welschenbach
2014.08.15 17:19:14 -04'00'

Rinker Design Associates, P.C.
Manassas, Virginia
PROFESSIONAL ENGINEER

NOTE TO CONTRACTOR:
All signs not owned by City of Fairfax (i.e. private propety signs, parking lot signs etc.) within the construction limits shall be removed and replaced in accordance with the contract special provisions.



SIGN LEGEND	
Ω	EXISTING SIGN
●	GROUND MOUNTED SIGN Std STP-1 (PROPOSED)
1/2	SIGN NO / TEXT NO. — FOR SYMBOL DEFINITION, SEE SHEET 6C
SIGNAGE	SIGN PANEL
SIGNAGE	EXISTING SIGN PANEL

NOTE: SEE SHEET 6C & 6D FOR SIGN SCHEDULE AND SIGN DETAILS

PLAN NO.	PROJECT	FILE NO.	SHEET NO.
-	Jermantown Road Phase II Improvements	-	6A

FINAL PLAN

Rinker Design Associates, P.C.
Civil Engineering - Surveying - Land Planning
Transportation - Environmental
Right of Way Services
Office Locations
8609 Sudley Road, Suite 200, Manassas, VA 20110, Tel: (703) 368-7373
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8609 Sudley Road, Suite 200, Manassas, VA 20110, Tel: (703) 368-7373
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Rinker Design Associates, P.C.
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Right of Way Services
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9100 Harrison Boulevard
Suite 200
Manassas, VA 20110
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403 Tucker Grove Drive
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Petersburg, VA 23805
Office: 804-526-1000
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www.RinkerDesign.com

CITY OF FAIRFAX

PROJECT MANAGER Wendy Block Sanford, City of Fairfax, (703) 385-7889
SURVEYED BY Rinker Design Assoc., P.C. (703) 368-7373
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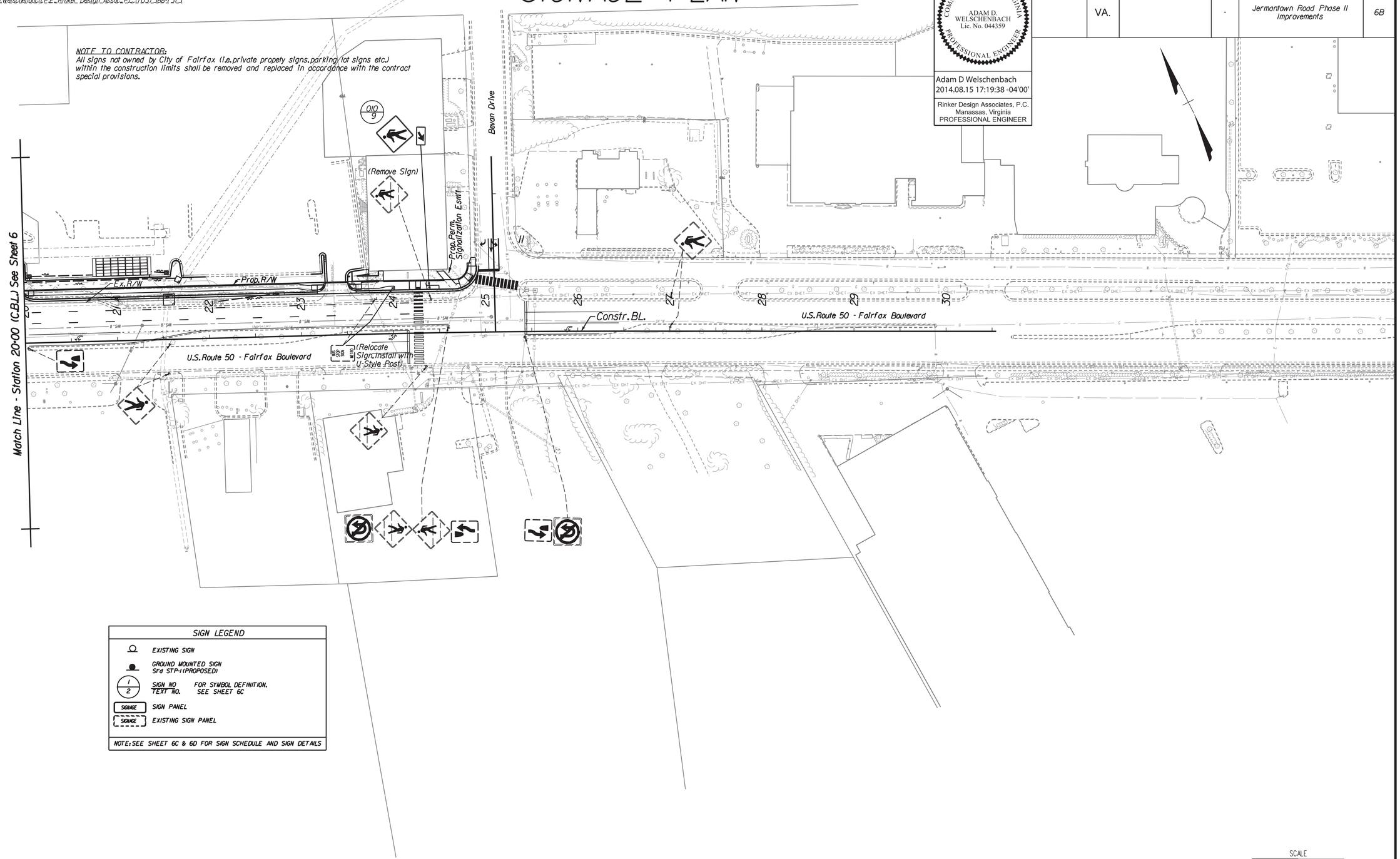
DESIGNED BY Adam D. Welschenbach, P.E., Rinker Design Assoc., P.C. (703) 368-7373

SIGNAGE PLAN



COMMONWEALTH OF VIRGINIA
ADAM D. WELSCHENBACH
Lic. No. 044359
PROFESSIONAL ENGINEER

Adam D Welschenbach
2014.08.15 17:19:38 -04'00'
Rinker Design Associates, P.C.
Manassas, Virginia
PROFESSIONAL ENGINEER

REVISED	STATE	FEDERAL AID PROJECT OWNER	STATE PROJECT		SHEET NO.
	VA.		-	Jermantown Road Phase II Improvements	6B

PLAN NO.	PROJECT	FILE NO.	SHEET NO.
-	Jermantown Road Phase II Improvements	-	6B

FINAL PLAN

PROJECT MANAGER Wendy Black Sanford, City of Fairfax, (703) 385-7889
SURVEYED BY Rinker Design Assoc., P.C. (703) 368-7373
DESIGN SUPERVISED BY Mark Gunn, P.E., Rinker Design Assoc., P.C. (703) 368-7373
DESIGNED BY Adam D. Welschenbach, P.E., Rinker Design Assoc., P.C. (703) 368-7373

SIGNAGE PLAN SCHEDULE SHEET

COMMONWEALTH OF VIRGINIA
ADAM D. WELSCHENBACH
Lic. No. 044359
PROFESSIONAL ENGINEER

Adam D Welschenbach
2014.08.15 17:20:06 -04'00'

Rinker Design Associates, P.C.
Manassas, Virginia
PROFESSIONAL ENGINEER

REVISED	STATE	FEDERAL AID PROJECT OWNER	STATE PROJECT		SHEET NO.
	VA.		-	Jermantown Road Phase II Improvements	6C

PERMANENT SIGNAGE SCHEDULE

TEXT NO.	TEXT	SIGN NO.	SIGN STRUCT. STD.	PANEL SIZE W(inch)	PANEL SIZE H(inch)	LETTER TYPE	COLOR COMB.	STD. NO.	SIGN AREA SQ.FT. EA.	REMARKS
1	STOP	001	STP-1, 2" - 12 GA. Single Post	30	30	L-1	C-10	R1-1	6.25	
2	ONLY ONLY ONLY	002	STP-1, 2 3/16" & 2 1/2" - 10 GA. Two Posts	78	36	L-1	C-1	Mod. R3-8b	19.5	See Sheet 6D for Sign Details Inner Post(s) shall not be less than 6' in length
3	BEGIN RIGHT TURN LANE	003	STP-1, 2 1/2" - 10 GA. Single Post	24	36	L-1	C-1	R3-20(R)	6	
4	DO NOT BLOCK INTERSECTION	004	STP-1, 2 1/2" - 10 GA. Single Post	24	30	L-1	C-1	R10-7	5	
5	RIGHT LANE MUST TURN RIGHT	005	STP-1, 2 1/2" - 10 GA. Single Post	30	30	L-1	C-1	R3-7(R)	6.25	
6	SPEED LIMIT 30	006, 007	STP-1, 2 1/2" - 10 GA. Single Post	30	36	L-1	C-1	R2-1	7.5	
7	ONLY ONLY ONLY DO NOT BLOCK INTERSECTION	008	STP-1, 2 3/16" & 2 1/2" - 10 GA. Two Posts	78 24	36 30	L-1 L-1	C-1 C-1	Mod. R3-8b R10-7	19.5 5	See Sheet 6D for Sign Details Inner Post(s) shall not be less than 6' in length
8	RIGHT LANE MUST TURN RIGHT AHEAD	009	STP-1, 2 1/2" - 10 GA. Single Post	30 24	30 12	L-1 L-1	C-1 C-1	R3-7(R) W16-9P	6.25 2	
9		010	STP-1, 2 3/16" & 2 1/2" - 10 GA. Single Post	30 24	30 12	L-1 L-1	C-8 C-8	W11-2 W16-7P	6.25 2	Inner Post shall not be less than 6' in length
10	AHEAD	011	STP-1, 2 1/2" - 10 GA. Single Post	24 24	24 12	L-1 L-1	C-8 C-8	W11-2 W16-9P	4 2	

SIGN LEGEND

- EXISTING SIGN
- GROUND MOUNTED SIGN St'd STP-1 (PROPOSED)
- SIGN NO / TEXT NO. — FOR SYMBOL DEFINITION, SEE THIS SHEET
- SIGNAGE — SIGN PANEL
- SIGNAGE — EXISTING SIGN PANEL

DEFINITION OF PROPOSED TEXT SYMBOL

TEXT / TEXT NO. — SIGN NO. / TEXT NO.

TEXT • THE TOP SECTION INDICATES THE SIGN NUMBER AS REFERENCED ON THIS SHEET

TEXT NO. • THE BOTTOM SECTION INDICATES THE TEXT NUMBER AS REFERENCED ON THIS SHEET

SIGNAGE GENERAL NOTES:

1. Unless otherwise specified, the Contractor shall NOT have the option of refurbishing framing members on existing sign panels or furnishing new sign panels with corresponding sign message for mounting on new breakaway post.
2. Unless otherwise approved by the City Engineer, existing traffic signs, which are to be removed, shall remain in place until the new sign structure and critical message are in place.
3. Unless otherwise indicated on the plans, all breakaway sign structures shall be located within 5' of the sign's proposed and/or current field location or as directed by the Engineer.
4. Proposed signs and sign structures shall not impact underground existing utilities. Contractor is responsible for any disruption in ANY utility Service due to digging for signage structure. Utilities as shown on plans are not guaranteed to be complete or accurate. The Contractor shall be responsible for ensuring that all utilities within the project are identified and located prior to installation of signs. If proposed signage location will cause impact to any utility service, sign location shall be relocated at the approval of the City Traffic Engineer at no additional cost.
5. All signs, as necessary or directed by the Engineer (except as noted on the plans) shall be installed in accordance with St'd STP-1, with breakaway post. All signs, as necessary or directed by the Engineer, designated to be relocated/reset shall re-installed in such manner the relocated sign complies with St'd STP-1. The cost to re-install signage from a wood-post to a St'd STP-1 and St'd STP-1 Conc. Foundation shall be incidental to the relocation cost.
6. All St'd STP-1 posts shall be installed with a St'd STP-1 Conc. Foundation. All St'd. STP-1 posts shall be be black powdered painted prior to installation at no additional cost to the project.
7. All signs designated to be removed shall include removing signs & posts and disposing signs & post(s), and finally restoring existing ground.

PLAN NO.	PROJECT	FILE NO.	SHEET NO.
-	Jermantown Road Phase II Improvements	-	6C

FINAL PLAN

Rinker Design Associates, P.C.
Office Locations
9302 Lee Highway, Suite 1100, Fairfax, VA 22031 Phone: (703) 385-7889
9302 Lee Highway, Suite 1100, Fairfax, VA 22031 Phone: (703) 368-7373
9302 Lee Highway, Suite 1100, Fairfax, VA 22031 Phone: (703) 273-7373
Civil Engineering - Surveying - Land Planning
Transportation - Environmental
Right of Way Services
CITY OF FAIRFAX
8/15/2014

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SIGNAGE PLAN - SIGN DETAIL

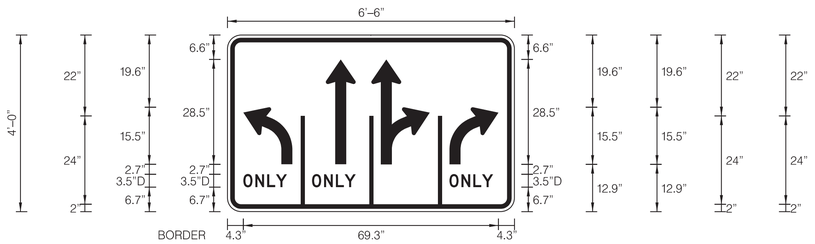
COMMONWEALTH OF VIRGINIA
ADAM D. WELSCHENBACH
Lic. No. 044359
PROFESSIONAL ENGINEER

Adam D Welschenbach
2014.08.15 17:20:42 -04'00'

Rinker Design Associates, P.C.
Manassas, Virginia
PROFESSIONAL ENGINEER

REVISED	STATE	FEDERAL AID PROJECT OWNER	STATE	PROJECT	SHEET NO.
	VA.		-	Jermantown Road Phase II Improvements	6D

SIGN DETAIL



Panel Style: regulatory_lanecontrol.ssi
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

SIGN NUMBER	Mod. R3-8b
WIDTH x HGHT.	6'-6" x 4'-0"
BORDER WIDTH	1.25"
CORNER RADIUS	3"
MOUNTING	St'd STP-1 (Ground)
BACKGROUND	TYPE: Reflective
	COLOR: White
LEGEND/BORDER	TYPE: Reflective
	COLOR: Black/Black

SYMBOL	ROT	X	Y	WID	HT
36short_left	0	4.3	12.9	13.3	15.5
36long_straight	0	26.7	12.9	8.1	28.5
36long_straight	0	39.1	12.9	8.1	28.5
36short_right	0	41.7	12.9	13.3	15.5
36short_right	0	60.3	12.9	13.3	15.5

LETTER POSITIONS (X)

				LENGTH	SERIES/SIZE
O	N	L	Y		D 2000
4.3	7.6	10.8	13.2	11.9	3.5
O	N	L	Y		D 2000
23	26.3	29.5	31.9	11.9	3.5
O	N	L	Y		D 2000
60.3	63.6	66.8	69.2	11.9	3.5

Rinker Design Associates, P.C.
Civil Engineering - Surveying - Land Planning
Transportation - Environmental
Right of Way Services

Office Locations
4653 Chesapeake Boulevard, Suite 100, Norfolk, VA 23502, Tel: (757) 466-0000
4653 Harrison Boulevard, Suite 200, Ogden, Utah, UT 84403, Tel: (801) 621-3100, Fax: (801) 621-2666
9990 Mecaslin Street, Suite 100, Manassas, VA 20110, Tel: (703) 368-7373, Fax: (703) 257-0441
4653 Chesapeake Drive, Suite 100, Harrisonburg, VA 22807, Tel: (540) 434-5000, Fax: (540) 434-5001

CITY OF FAIRFAX

8/15/2014

PLAN NO.	PROJECT	FILE NO.	SHEET NO.
-	Jermantown Road Phase II Improvements	-	6D

FINAL PLAN

PROJECT MANAGER Wendy Black Sanford, City of Fairfax
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REVISED	STATE	FEDERAL AID PROJECT OWNER	STATE PROJECT		SHEET NO.
	VA.		-	Jermantown Road Phase II Improvements Proposed Traffic Signal Modifications	7(1)

Rinker Design Associates, P.C.
Civil Engineering - Surveying - Land Planning
Transportation - Environmental
Right of Way Services
Office Locations
4101 Dickerson Boulevard Suite 210 Chevy Chase, MD 20815 Phone: (301) 951-9400
4101 Dickerson Boulevard Suite 210 Manassas, VA 20110 Phone: (703) 257-0444
4101 Dickerson Boulevard Suite 210 Office Hill, VA 20105 Phone: (703) 368-7373 Fax: (703) 368-7373
4101 Regent Street Drive Suite 210 Fredericksburg, VA 22407 Phone: (540) 373-9400 Fax: (540) 373-9401
CITY OF FAIRFAX DEPARTMENT OF PUBLIC WORKS

Proposed Signal Modification General Notes:

1 All work shall be in accordance with the current edition of the Manual of Uniform Traffic Control Devices (MUTCD), the current edition of the VDOT Road and Bridge Specifications, the current edition of the VDOT Road and Bridge Standards, and all special provisions in effect at the time the signal plan is approved. The Contractor is to also perform all work in accordance with the April 2009 and June 2009 Revisions to the Road and Bridge Standards, as applicable. All work shall also conform to the current edition of the City of Fairfax Public Facilities Manual standards regarding Traffic Signal Installation.

2 Five (5) working days prior to commencing traffic signal work at any location within the City of Fairfax, the Contractor must notify the City of Fairfax permits section in writing with the name, daytime phone numbers, and emergency phone numbers for the Contractor, giving the location of the work site including street names, route numbers, permit number, type, and details of construction and work schedule.

3 The City of Fairfax engineer, prior to construction, shall verify location of controller cabinet.

4 The traffic signal shall not be placed into flashing or full-color operation without the prior notification and approval from a City of Fairfax Engineer. Arrangements shall be made by the permit manager to schedule the City of Fairfax field personnel providing a minimum of 48 hours advance notice.

5 The Contractor shall provide, install, and adjust controller timings to provide orderly flow of traffic, or as directed by the City of Fairfax Engineer.

6 The Contractor shall have his qualified representative present to monitor traffic flow and adjust timings as necessary through a minimum of two consecutive mornings and evening rush hour periods, or as directed by the City of Fairfax Engineer.

7 New traffic signals installations shall not be placed into color operation on Mondays, Fridays or days preceding or following holidays, unless directed by the City of Fairfax Engineer.

8 All right turn overlaps shall be wired to the overlap switch position.

9 For installation of conduits, no open cut will be allowed in the roadway surface.

10 The Contractor shall perform test pits and exercise care in placement of signal pole foundations to preclude utility conflicts. If adjustments in pole locations are required, the Contractor shall notify the City of Fairfax Engineer prior to commencing work.

11 All existing unused junction boxes that are not to be reused shall be removed.

12 Utilities shown on the plans are not guaranteed to be complete or accurate. The Contractor shall be responsible for ensuring that all utilities within the project limits are identified and located before beginning work. The Contractor shall contact Miss Utility of Virginia at 1-800-522-7001 48 hours prior to any construction activities. Contractor shall coordinate with utility companies as to the location of existing and approved plans of future utility lines. For water/sewer service interruption, call the City of Fairfax Public Utilities Department at 703-385-7920, or 703-385-7924 after hours. Any disruption of any utility service is the responsibility of the Contractor.

13 Contractor shall not impact existing utilities when installing any component of the proposed signal. Any disruption to utility service shall be at the expense of the Contractor.

14 New LED traffic signal heads and overhead traffic signal signage shall be covered with a durable non-transparent cover upon installation. The Contractor shall maintain covers until the new traffic signal system is operational.

15 No traffic signal shall be placed into operation until the location is 100% complete. This includes any necessary pavement marking and signage adjustment shown on the plans. The Contractor shall notify the permit inspector, who shall notify the City of Fairfax Engineer a minimum of 48 hours prior to placing the signal into operation.

16 Maintenance and repair of the traffic signal and any necessary future modifications during construction is the sole responsibility of the Contractor.

17 All unused wires in the signal heads shall be capped individually with crimp type caps.

18 The Contractor shall label all spare wires in the controller cabinet in accordance with section 700.04(g) of the VDOT Road and Bridge Specifications.

19 (S) denotes cable to be shielded. (M) denotes metal conduit.

20 Site preparation and grading shall be incidental to signal installation.

21 All junction boxes shall be in accordance with Standard JB-S2 unless indicated on the plans.

22 Trench excavation shall be in accordance with Standard EC1-1.

23 Meter pole and foundations shall conform to Standard PF-2

24 Contractor shall install all vehicle detection devices prior to the installation of final surface course.

25 All traffic signal head sections shall be LED.

26 Included in the cost of all conduits shall be the cost of equipment grounding conductor (#6 AWG EGC)

27 All furnished mast arm poles, mast arms, controllers, PF-2 shall be powder-coated in the color of black at no additional cost to the project and in accordance with the City of Fairfax's requirements. All signal heads and pedestrian heads shall be black in color and the back side of all signal signs shall be black, at no additional cost to the project.

28 A certified Level II IMSA Technician shall be on-site at all times at no cost to project.

29 NOTE REMOVED

30 For the interconnect installation, Std JB-S2 shall be installed min. every 200' to 250' as field conditions allow.

31 All existing controller cabinet and controller equipment to be removed shall be returned to the proper facilities at the City of Fairfax or disposed with written permission from the City of Fairfax.

32 The Project and Contractor shall be soley responsible for providing and maintaining electrical service to the controller at all times. The Contractor shall be responsible for all costs associated with providing electrical service to the traffic signal. The Contractor shall be responsible for coordinating the location and the installation of the electrical service for the traffic signal with the local utility company. Electrical Service shall be installed in accordance with Standard SE-5 as shown on the plan and section 238.02(h) of the current edition of the VDOT Road and Bridges Specifications. Electrical service shall be metered.

33 Traffic signal heads shall be cast aluminum.

34 Hanger assembly brackets for angled traffic signal heads shall be such that back plates can be installed without alternation or modification.

35 The Contractor shall be responsible for maintaining detection on all approaches of the intersection at all times and throughout all phases of construction.

36 No junction boxes shall be installed in paved shoulder, sidewalk, or multi-purpose trail.

37 Junction box covers shall have the letters "TRAF" cast in the top surface depression for all traffic signal related junction boxes containing cable with less than 50 volts. All other junction box covers shall have "ELEC" cast in the top surface depression.

38 All mast arms are to be field drilled only.

39 All breakaway poles shall have breakaway fuses.

40 Dimensions used for locating equipment (such as signal head assemblies, signs, pre-emptor, cameras, etc.) on mast arms are measured to the center of the symbols used to indicate the equipment.

41 Upon receipt of the controller and cabinet, the Contractor's qualified representative shall wire the cabinet and program and test the phasing of the intersection as shown on the plan. The Contractor shall provide a certification letter to the City of Fairfax indicating that the work is in compliance with City standards and is consistent with the phasing as per the signal plan. As part of the installation, the Contractor is responsible for providing the concrete foundation specified as Std. CF-2 and the phone company access compartment shown as CC-2. The Contractor shall furnish and install an approved battery back-up system (Uninterruptible Power Supply/UPS). The UPS assembly (cabinet) shall be Type B and shall mount directly to the controller cabinet.

42 The Contractor is responsible for providing the City of Fairfax a standard traffic controller and cabinet, complete with a TS-2 Base Mount P-44 Cabinet (EL712VA Painted Black with 16 Position terminal facility, MMU, Flashers Load Switches, Flash Transfer, Anchor Bolts and 2 channel vehicle detection) and Eagle/Siemens M52 Controller (EPAC3608M52)

43 Prior to construction and before purchase of any equipment required for signals, the Contractor is to provide the City of Fairfax with shop drawings of all required equipment. Contractor will also provide a list of product data for these items to the City of Fairfax Engineer to ensure that these items meet all current City of Fairfax signal standards.

44 Include the following notes pertaining to pre-emption devices:
A All new traffic signals and modifications shall include OPTICOM Emergency Vehicle Preemption (EVP) equipment.
B The Contractor shall install the OPTICOM EVP system as shown on the plans. The OPTICOM EVP system shall include all optical detectors, detector cables, phase selectors, and discriminators for a functional system.
C The Contractor shall be responsible for the purchase and installation of the EVP equipment per current adopted City of Fairfax specifications.
D All installed OPTICOM EVP equipment shall be compatible with existing or proposed signal equipment.
E The Contractor shall install the OPTICOM EVP equipment in accordance with the Manufacturers Specifications. EVP wiring shall be GTT 138.4 conductor (6 gauge cables).
F The proposed OPTICOM EVP sequence diagram and timings shall be submitted to City of Fairfax Traffic Engineer for approval prior to installation.
G The Contractor shall secure approval from the Department of Fire and Rescue that specifies the approaches to be preempted.
H City of Fairfax shall be responsible for the installation, operation, and maintenance associated with the OPTICOM EVP system.

45 All parts of the signal to be installed shall be 1 ft. inside the right of way line or signal easement, unless directed by the Engineer.

46 Signal pole arm and foundation shall be designed to accommodate an additional 5-section head four feet from the tip (free end) of the arm and an additional MUTCD R10-12 (30" x 36") sign one foot from the tip of the arm.

47 Pedestal Pole (PF-2) shall be 12 ft. in height for pedestrian SP-8.

48 Pedestal pole heads shall be mounted in accordance with Std SMB-2.

49 Dimensions used for locating equipment (such as signal head assemblies, signs, pre-emptor, cameras, etc.) on mast arms are measured to the center of the symbols used to indicate the equipment.

50 Contractor is to verify the location of the Ex. Conduits and make field adjustments as necessary and approved by the City of Fairfax Engineer.

51 Pedestrian signal head sections shall be cast aluminum.

52 Mast arm pole foundations shall conform to VDOT Standard PF-1 as directed by the City of Fairfax Engineer. Final foundation depth to be furnished by Contractor and submitted to City Engineer for approval.

53 Pedestrian signal heads, to be mounted on signal pole, shall be installed in accordance with Std SMB-3. The pedestrian signal head shall be mounted such that the lowest point on the SMB-3 mounting bracket is not less than 7' or greater than 9' above finished sidewalk/trail elevation.

54 Pedestrian pole and foundations shall conform to Standard PF-2.

55 All Ped. Push buttons shall be mounted in accordance with Standard PA-2. Pedestrian Std PA-2 shall be oriented to face the crosswalk to which it applies and be visible to a pedestrian standing at the beginning of the crosswalk on each corner. All push buttons shall be ADA type and meet City of Fairfax requirements.

56 All pedestrian signals shall be in accordance with Standard SP-8 Mast arms signal heads mountings shall be in accordance with Standard SM-3

57 Signals mounted on mast arms line shall have separate detector units. All other sets shall be spliced in series.

58 The cost of 1" metal conduit to JB-S1 for system grounding is included in the cost of electric service SE-5.

59 All signal heads shall have polycarbonate backplates. Backplate hardware shall be stainless steel.

60 A 72 hour notice is required prior to disconnecting the existing controller communication for any reason.

61 The cost of providing communication to the traffic signal is included in the cost of installing the controller. Contact City of Fairfax for any related communication issues.

62 Contractor is responsible for purchasing preemption sensors and all necessary equipment, materials, and tools to install on mast arms as shown on the plans. Coordination with City of Fairfax is required. Pre-Emption equipment shall be GTT Opticom Emergency Pre-Emption. (700 Series with green-sense and 2 confirmation lights for each approach. 721 Detectors. Detection Locations shall be installed as per direction of City of Fairfax Traffic Engineer.

63 Controller cabinet foundations shall be Std CF-2 (6/15/2009 revision) to include two 4" conduits and one spare 3" conduit tied into the JB-S3. The controller cabinet foundation shall have a separate 1 1/4" conduit tied into the service meter equipment. Controller foundation shall also have two seperate 2" conduits tied into the signal interconnect split box. The Controller shall also have an additional 3" conduit (capped) for future Microwave traffic counter connection.

64 The Contractor shall be responsible for providing and maintaining communication to the controller at all times. The Contractor is responsible for any costs associated with providing communication to the traffic signal. A 2-inch communication road bore shall be installed by the Contractor (as indicated on the plan). The Contractor shall contact City of Fairfax sixty (60) days prior to the start traffic signal construction to coordinate all communication activities.

65 All conduit shall be Schedule 40 PVC, and all couplings, elbows, and bushings shall be Schedule 40 PVC or approved equal.

TRAFFIC SIGNAL & UTILITIES LEGEND

	EXISTING	PROPOSED
ELECTRIC	E	ONE WAY SIGNAL HEAD
TELEPHONE	T/Tg	BASE MOUNTED LOCAL CONTROL CABINET
GAS	G	PEDESTAL POLE-METAL
SEWER	S	JUNCTION BOX
WATER	W	LOOP DETECTOR
CABLE TV	CATV	QUADRUPLE LOOP DETECTOR (6' X 40')
GAS VALVE		SERVICE DISCONNECT SWITCH BOX
WATER VALVE		METER BOX
UTILITY POLE AND OVERHEAD UTILITIES	OHW	CONDUIT W/CABLE
		PEDESTRIAN PUSH BUTTON
		METAL POLE

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

ADDITIONAL NOTES:
1. The Contractor shall provided a certification letter to the City of Fairfax indicating that the work completed is in accordance with City of Fairfax and VDOT standards and the phasing/timing is consistent of that directed by the City of Fairfax Traffic Engineer. The signal shall remain the responsibility of the the Contractor until the City of Fairfax accepts the signal into their system.

2. Signal Foundation and Mast arm design shall be preformed by a structural engineer pursuant to VDOT Road and Bridge Standards. Foundation design shall be apporved by the City of Fairfax prior to installation.

Revisions	
Date	Initial

Note:
These are City of Fairfax signal(s) maintained by the City of Fairfax Department of Public Works.

TRAFFIC SIGNAL MODIFICATION

General Notes

City of Fairfax, Virginia

SCALE 0 25' 50' | DATE: June 2014

DRAWN: ADW DESIGNED: ADW CHECKED: ADW

PLAN NO.	PROJECT	FILE NO.	SHEET NO.
-	Jermantown Road Phase II Improvements	-	7(1)

FINAL PLANS

PROJECT MANAGER Wendy Block Sanford, City of Fairfax
SURVEYED BY Rinker Design Assoc., P.C. (703) 368-7373
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REVISED	STATE	FEDERAL AID PROJECT OWNER	STATE PROJECT		SHEET NO.
	VA.		-	Jermantown Road Phase II Improvements Proposed Traffic Signal Modifications	7(2)

COLOR SEQUENCE CHART

PHASE	1	2	3	4	5	6	7	8	1-6	2-5	2-6	3-8	4-7	4-8	
SIGNAL	R/W	R/W	R/W	R/W	R/W	R/W	R/W	R/W	R/W	R/W	R/W	R/W	R/W	R/W	FLASH
1	◄G								◄G						R
2		G								G	G				A
3			◄G									◄G			R
4				G									G	G	R
4A				G/G►									G/G►	G/G►	R
4B				G►									G►	G►	R
5					◄G				◄G						R
6						G			G		G				A
7							◄G					◄G			R
8								G				G		G	R
P2		•WALK							•WALK	•WALK					BLANK
P6						•WALK			•WALK		•WALK				BLANK
P8								•WALK				•WALK		•WALK	BLANK

NOTE: BLANK SPACES REPRESENT A RED DISPLAY.
• WALK INDICATION DISPLAYED AFTER PEDESTRIAN CALL IS SERVICED;
OTHERWISE "DON'T WALK" INDICATION IS DISPLAYED.

Notes:

1. Contractor shall re-establish power service from existing power service connection. Power service connection shall be upgraded to meet current VDOT Std SE-5 and Dominion Power Service requirements. Contractor is solely responsible (including any costs thereof) for coordinating with Dominion Power to ensure adequate power service for the proposed signal modifications.

2. No aerial utilities are be permitted in front of the mast arms, unless they are higher than the proposed mast arm. Utilities are to be relocated if they conflict within 1' of the mast arms. Contractor is to coordinate this with any utility company and is responsible for any costs associated with this relocation, and shall be incidental to the cost of the project, not to be paid for separately.

3. The contractor shall be responsible for providing and maintaining communication to the controller at all times. The contractor is responsible for any costs associated with providing communication to the traffic signal. See Sheet General Notes on Sheet 7(1) for contact information and details.

4. All existing loop detectors shall be abandoned or removed. All proposed Sensys Wireless Detectors shall be installed so they are flush mounted after final surface course. Coordination with City of Fairfax Engineer is required for final location of detectors. City approval of locations is required prior to installation.

5. Existing Controller/Cabinet is to be removed and returned to City of Fairfax Signal shop following installation and acceptance by the City of the new Controller and operation of the newly reconstructed signal. Coordination with City required.

6. Contractor shall be responsible for any damage done to the traffic signal during construction. The project shall have a qualified signal crew on-call at all times for any issue that may arise and need to be fixed immediately.

7. The Contractor is responsible for any cost associated for police officer use during construction. Fourteen (14) days notice is required to request police officer use for intersection control. This cost is not to be paid for seperately and shall be incidental to the cost of the project.

8. The Contractor shall dis-connect signal interconnect cable(s) from this pole and re-route/intercept SIC to underground conduits as proposed. Coordination with City Traffic Engineer is required prior to start of any work. Signal interconnect cable shall remain aerial across Jermantown Road.

9. CCTV Candy Cane Bracket shall be per City of Fairfax specifications and CCTV Camera shall be per City of Fairfax specifications. Contact City of Fairfx Traffic Engineer for specifications prior to ordering of equipment.

Signal Pole & Controller Legend
(ALL DIMENSIONS ARE TO CENTER OF POLE)

The MP-1 (and Mast Arms) shall be designed to meet any NESC utility clearance requirements

1. Std Mast Arm Pole (MP-1) with Std PF-1
Foundation 64.80' Left of Rte.50 Constr. Baseline Sta. 12+18.54
75' Mast Arm 90° Angle to Rte.50 Constr. Baseline
Signal Head Placement: 25.8', 37.8', 49.8', 61.8', 71.8'
Sign Placement: 12.6', 43.8'
Pre-emption Placement: 56.3'
Camera Candy Cane Bracket Length: 48" Min.
Camera Placement: 22' (City has final approval on Loc.)
Lateral Offset Requirements Met: YES

2. Std Mast Arm Pole (MP-1) with Std PF-1
Foundation 75.62' Left of Rte.50 Constr. Baseline Sta. 13+71.76
75' Mast Arm 178.42° Angle to Rte.50 Constr. Baseline
Signal Head Placement: 38.6', 49.6', 60.6', 71.6'
Sign Placement: 16.5'
Pre-emption Placement: 54.7'
Lateral Offset Requirements Met: YES

3. Std Mast Arm Pole (MP-1) with Std PF-1
Foundation 55.31' Right of Rte.50 Constr. Baseline Sta. 13+60.73
60' Mast Arm 270° Angle to Rte.50 Constr. Baseline
Signal Head Placement: 20.3', 32.2', 41.5', 53.5'
Sign Placement: 10', 26.3'
Pre-emption Placement: 36.7'
Lateral Offset Requirements Met: YES

4. Std Mast Arm Pole (MP-1) with Std PF-1
Foundation 71.93' Right of Rte.50 Constr. Baseline Sta. 12+36.18
75' Mast Arm 358.42° Angle to Rte.50 Constr. Baseline
Signal Head Placement: 14.1', 26.7', 36.7', 48.7'
Sign Placement: 10.4', 19.3', 22.4'
Pre-emption Placement: 42.5'
Lateral Offset Requirements Met: YES

5. Prop. Controller and Foundation Location
Std CF-2 Foundation Required

6. Ex. Controller and Foundation Location
Existing Controller and Foundation to be completely removed/disposed and ground restored.

CABLE AND CONDUIT RUNS

(A) 1 - 3" Conduit
2 - 4/7C for Ped. Head P6, P8
2 - 14/2C for Ped. Push Button PB-6, PB-8
1 - #6 AWG (EGC)

(B) 1 - 3" Conduit
2 - 14/7C for Heads 3, 8
1 - Emer. Pre-Emption Cable
1 - #6 AWG (EGC)

(C) 1 - 3" Conduit
2 - 14/7C for Heads 3, 8
2 - 14/7C for Ped. Head P6, P8
2 - 14/2C for Ped. Push Button PB-6, PB-8
1 - Emer. Pre-Emption Cable
1 - #6 AWG (EGC)

(D) 1 - 4" Conduit (BORED)
2 - 14/7C for Heads 3, 8
2 - 14/7C for Ped. Head P6, P8
2 - 14/2C for Ped. Push Button PB-6, PB-8
1 - Emer. Pre-Emption Cable
1 - #6 AWG (EGC)

(E) 1 - 3" Conduit
1 - 14/7C for Ped. Head P8
1 - 14/2C for Ped. Push Button PB-8
1 - #6 AWG (EGC)

(F) 1 - 3" Conduit
2 - 14/7C for Heads 2, 5
1 - 24/8C for CAT5 for Sensys RPT
1 - Emer. Pre-Emption Cable
1 - #6 AWG (EGC)

(G) 1 - 3" Conduit
1 - 14/7C for Ped. Head P2
1 - 14/2C for Ped. Push Button PB-2
1 - #6 AWG (EGC)

(H) 1 - 4" Conduit (BORED)
2 - 14/7C for Heads 2, 5
2 - 14/7C for Ped. Head P2, P8
2 - 14/2C for Ped. Push Button PB-2, PB-8
1 - 24/8C for CAT5 for Sensys RPT
1 - Emer. Pre-Emption Cable
1 - #6 AWG (EGC)

(I) NOT USED

(J) 1 - 3" Conduit
4 - 14/7C for Heads 4, 4A, 4B, 7
1 - Emer. Pre-Emption Cable
1 - #6 AWG (EGC)

(K) 1 - 4" Conduit (BORED)
6 - 14/7C for Heads 2, 4, 4A, 4B, 5, 7
3 - 14/7C for Ped. Head P2, P8
3 - 14/2C for Ped. Push Button PB-2, PB-8
1 - 24/8C for CAT5 for Sensys RPT
2 - Emer. Pre-Emption Cable
1 - #6 AWG (EGC)

(L) 1 - 3" Conduit
1 - 14/7C for Ped. Head P6
1 - 14/2C for Ped. Push Button PB-6
1 - #6 AWG (EGC)

(M) 1 - 4" Conduit
2 - 14/7C for Heads 3, 8
2 - 14/7C for Ped. Head P6, P8
2 - 14/2C for Ped. Push Button PB-6, PB-8
1 - Emer. Pre-Emption Cable
1 - #6 AWG (EGC)

(N) 1 - 4" Conduit
2 - 14/7C for Heads 1, 6
1 - 24/8C for CAT5 for Sensys ACP
1 - CCTV Cable (CAT6)
1 - Emer. Pre-Emption Cable
1 - #6 AWG (EGC)

(O) NOT USED

(P)
1 - 4" Conduit
10 - 14/7C for Heads 1, 2, 3, 4, 4A, 4B, 5, 6, 7, 8
6 - 14/7C for Ped. Heads 2, 6, 8
6 - 14/2C for Ped. Push Button PB-2, PB-6, PB-8
1 - #6 AWG (EGC)

1 - 4" Conduit
4 - Emer. Pre-Emption Cable
1 - 24/8C for CAT5 for Sensys RPT
1 - 24/8C for CAT5 for Sensys ACP
1 - #6 AWG (EGC)

1 - 3" Conduit
2 - 19/12C Copper for SIC
2 - 12 Single Mode Fiber ODUG
1 - CCTV Cable (CAT 6)
1 - #6 AWG (EGC)

1 - 3" Conduit (SPARE)
1 - #6 AWG (EGC)

(Q) 1 - 1 1/4" Conduit (Metal)
3 - #6 AWG (EGC) for Electrical Service

(S) 1 - 1" Conduit
1 - #6 AWG (EGC) for Elec. Grounding

(T) 1 - 2" Conduit for Power Service
Electrical Service Connection
From Existing Tap on Power Pole

(Z) 2 - 2" Conduit
2 - 12 Single Mode Fiber ODUG
(Loop to Controller and back to Intercept on Power Pole on east side of Jermantown Road)

(Y) 2 - 2" Conduit (BORED)
2 - 12 Single Mode Fiber ODUG
(Loop to Controller and back to Intercept on Power Pole on east side of Jermantown Road)

(Y1) 2 - 2" Conduit (BORED)
1 - 12 Single Mode Fiber ODUG
1 - Spare Conduit for Future Use (Cap and Label)

NOTE(S):
EGC = Equipment Grounding Conductor
ACP = Access Point (SENSYS)
RPT = Repeater (SENSYS)
All Conduits are trenched unless directed to be bored

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

CLEARANCE CHART

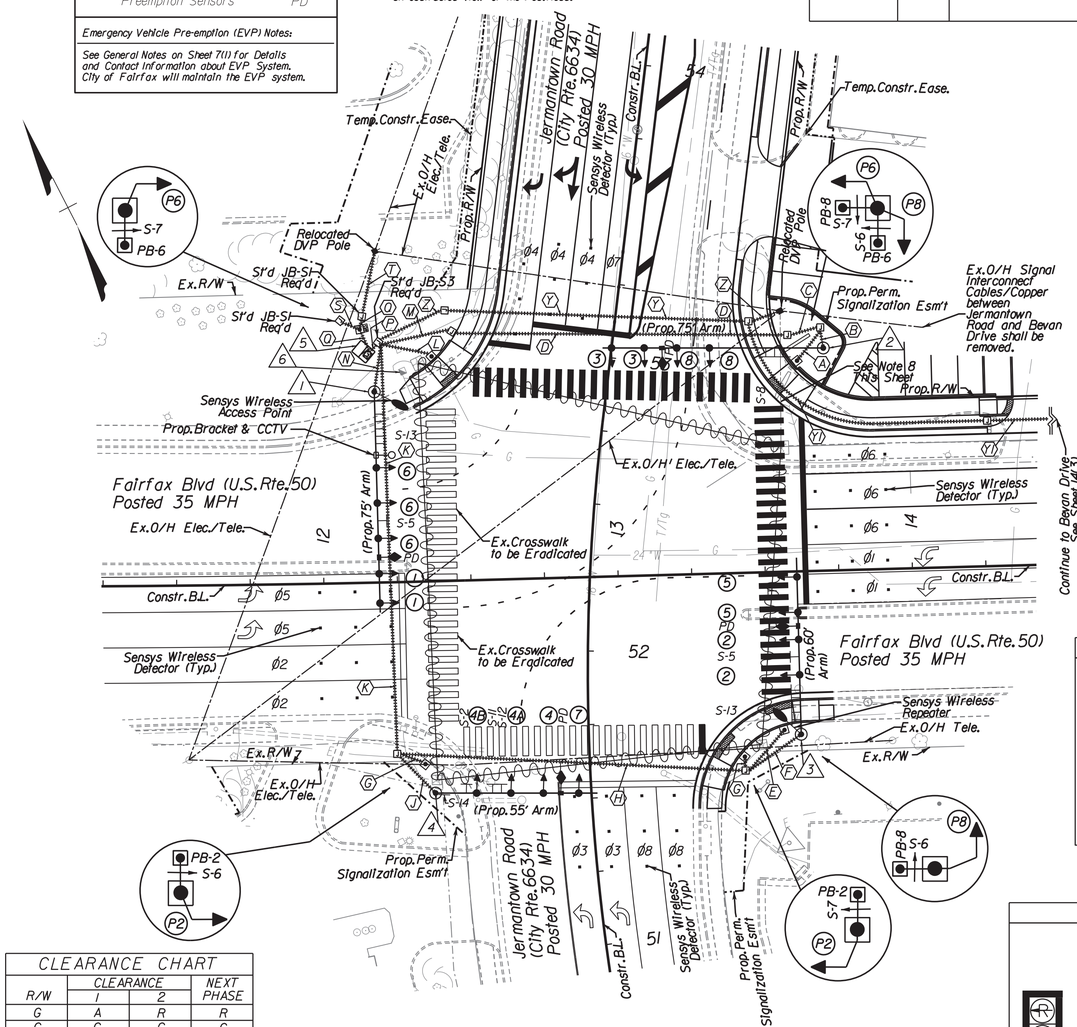
R/W	CLEARANCE 1	CLEARANCE 2	NEXT PHASE
G	A	R	R
G	G	G	G
G/G►	G/G►	G/G►	G/G►
G/G►	A	R	R
◄G	◄A	R	R
◄G	◄G	◄G	◄G
G►	A►	R	R
G►	G►	G►	G►
WALK	FDW	DW	DW
WALK	WALK	WALK	WALK

PROPOSED
PREEMPTION SENSORS ◆
Police & Fire Dept. Emergency Preemption Sensors PD

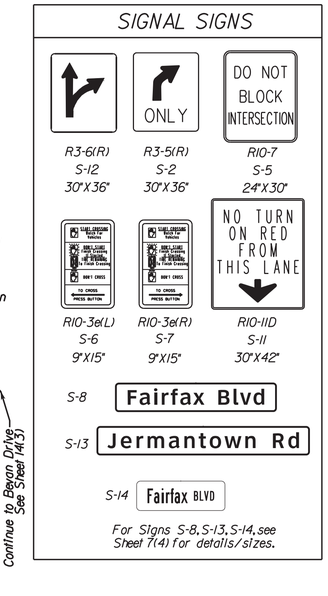
Emergency Vehicle Pre-emption (EVP) Notes:
See General Notes on Sheet 7(1) for Details and Contact Information about EVP System. City of Fairfax will maintain the EVP system.

Pavement Marking Note:
See Pavement Marking Plans for details. (Sheet 8 Series)

Note:
Ped. Heads shall be installed and oriented so that pedestrians in the crosswalk or ramp area do not have an obstructed view of the Ped. Head.

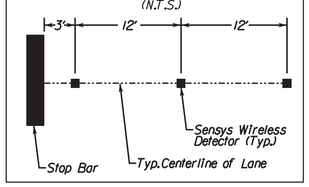


SIGNAL SIGNS

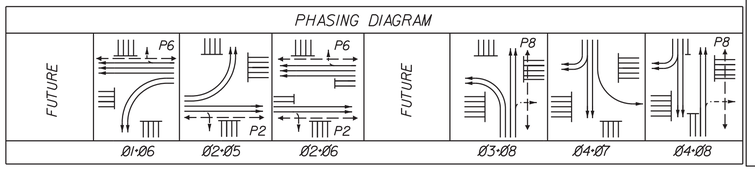


For Signs S-8, S-13, S-14, see Sheet 7(4) for details/sizes.

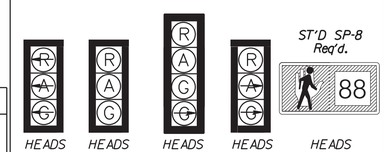
Sensys Detector Placement Detail
(N.T.S.)



PHASING DIAGRAM



SIGNAL HEADS
ALL TRAFFIC SIGNAL HEAD SECTIONS SHALL BE LED



ALL SIGNALS SHALL BE EQUIPPED WITH POLYCARBONATE BACKPLATES

ALL PED. HEADS SHALL BE SP-8 WITH COUNTDOWN

Revisions	
Date	Initial

COMMONWEALTH OF VIRGINIA
ADAM D. WELSCHENBACH
Lic. No. 044359
PROFESSIONAL ENGINEER

Adam D Welschenbach
2014.08.15 17:21:14 -04'00'

Rinker Design Assoc. P.C.
Manassas, Virginia
PROFESSIONAL ENGINEER

Note:
These are City of Fairfax signal(s) maintained by the City of Fairfax Department of Public Works.

TRAFFIC SIGNAL MODIFICATION

Intersection of:
Fairfax Boulevard (U.S.Route 50) &
Jermantown Road (City Route 6634)

City of Fairfax, Virginia

SCALE	DATE:
0 25' 50'	June 2014

DRAWN:	DESIGNED:	CHECKED:
ADW	ADW	ADW

PLAN NO.	PROJECT	FILE NO.	SHEET NO.
-	Jermantown Road Phase II Improvements	-	7(2)

FINAL PLANS

Rinker Design Associates, P.C.
Civil Engineering • Surveying • Land Planning
Transportation • Environmental
Right of Way Services
Office Locations
CITY OF FAIRFAX DEPARTMENT OF PUBLIC WORKS
8/15/2014

PROJECT MANAGER Wendy Block Sanford, City of Fairfax
SURVEYED BY Rinker Design Assoc., P.C. (703) 368-7373
DESIGN SUPERVISED BY Mark Gunn, P.E., Rinker Design Assoc., P.C. (703) 368-7373
DESIGNED BY Adam D. Welschenbach, P.E., Rinker Design Assoc., P.C. (703) 368-7373

REVISED	STATE	FEDERAL AID PROJECT OWNER	STATE PROJECT		SHEET NO.
	VA.		-	Jermantown Road Phase II Improvements Proposed Traffic Signal Modifications	7(3)

SIGNAL HEADS

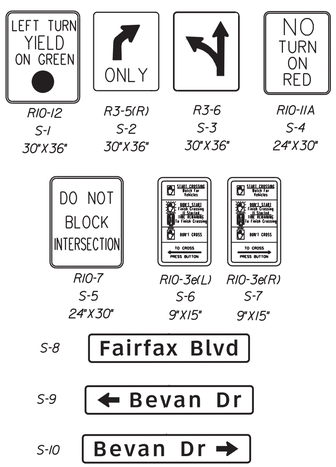
ALL TRAFFIC SIGNAL HEAD SECTIONS SHALL BE LED

HEADS 1,5 — HEADS 2,4,6,8 — HEADS P4,P6

ALL SIGNALS SHALL BE EQUIPPED WITH POLYCARBONATE BACKPLATES

ALL PED.HEADS SHALL BE SP-8 WITH COUNTDOWN

SIGNAL SIGNS



For Signs S-8, S-9, S-10, see Sheet 7(4) for details/sizes.

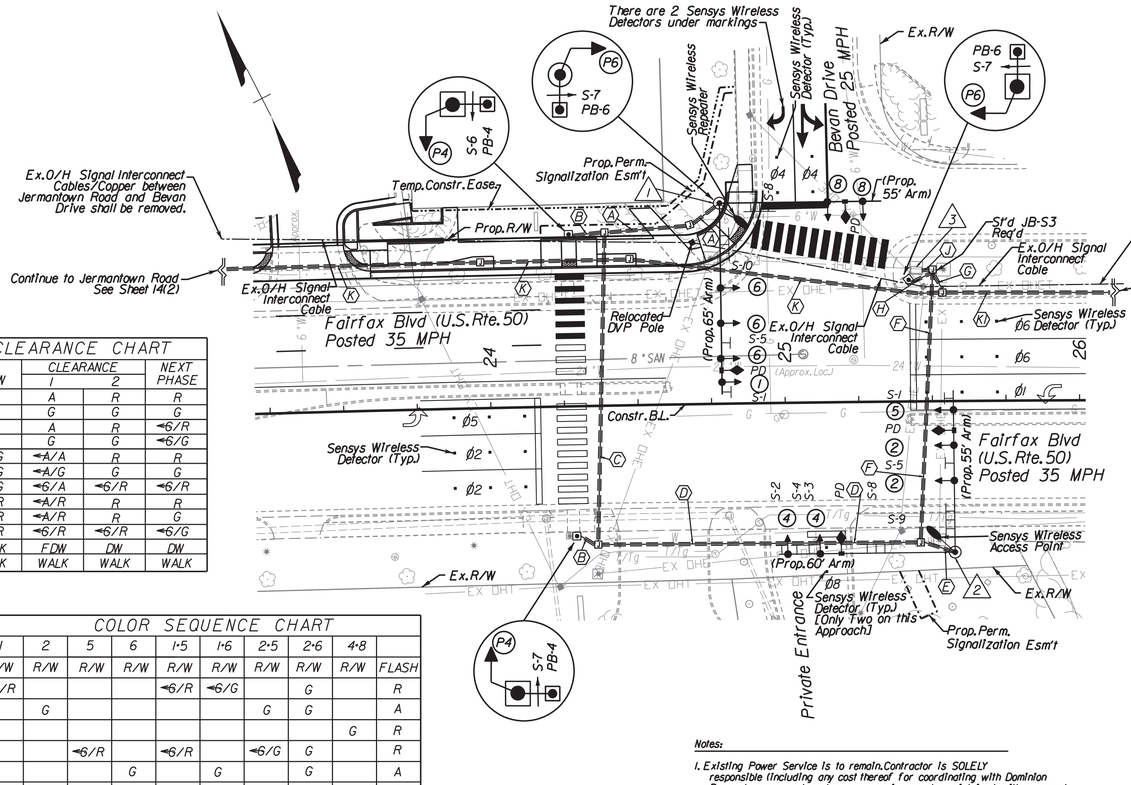
CLEARANCE CHART

R/W	CLEARANCE 1	CLEARANCE 2	NEXT PHASE
G	A	R	R
G	G	G	G
G	A	R	◄G/R
G	G	G	◄G/G
◄G/G	◄A/A	R	R
◄G/G	◄A/G	G	G
◄G/G	◄G/A	◄G/R	◄G/R
◄G/R	◄A/R	R	R
◄G/R	◄A/R	R	G
◄G/R	◄G/R	◄G/R	◄G/G
WALK	FDW	DW	DW
WALK	WALK	WALK	WALK

COLOR SEQUENCE CHART

PHASE	1	2	5	6	1-5	1-6	2-5	2-6	4-8	
SIGNAL	R/W	R/W	R/W	R/W	R/W	R/W	R/W	R/W	R/W	FLASH
1	◄G/R				◄G/R	◄G/G		G		R
2		G					G	G		A
4									G	R
5			◄G/R		◄G/R		◄G/G	G		R
6				G		G		G		A
8									G	R
P4									*WALK	BLANK
P6				*WALK		*WALK		*WALK		BLANK

NOTE: BLANK SPACES REPRESENT A RED DISPLAY.
* WALK INDICATION DISPLAYED AFTER PEDESTRIAN CALL IS SERVICED; OTHERWISE "DON'T WALK" INDICATION IS DISPLAYED.



CABLE AND CONDUIT RUNS

(A)
1 - 3" Conduit
3 - 14/7C for Heads 1,6,8
1 - 14/7C for Ped.Head P6
1 - 14/2C for Ped.Push Button PB-6
1 - 24/8C for CAT5 for Sensys RPT
2 - Emer.Pre-Emption Cable
1 - *6 AWG (EGC)

(B)
1 - 3" Conduit
1 - 14/7C for Ped.Head P4
1 - 14/2C for Ped.Push Button PB-4
1 - *6 AWG (EGC)

(C)
1 - 4" Conduit (BORED)
3 - 14/7C for Heads 1,6,8
2 - 14/7C for Ped.Heads P4,P6
2 - 14/2C for Ped.Push Button PB-4,PB-6
1 - 24/8C for CAT5 for Sensys RPT
2 - Emer.Pre-Emption Cable
1 - *6 AWG (EGC)

(D)
1 - 4" Conduit (BORED)
3 - 14/7C for Heads 1,6,8
3 - 14/7C for Ped.Heads P4,P6
3 - 14/2C for Ped.Push Button PB-4,PB-6
1 - 24/8C for CAT5 for Sensys RPT
2 - Emer.Pre-Emption Cable
1 - *6 AWG (EGC)

(E)
1 - 3" Conduit
3 - 14/7C for Heads 2,4,5
1 - 24/8C for CAT5 for Sensys ACP
2 - Emer.Pre-Emption Cable
1 - *6 AWG (EGC

(F)
1 - 4" Conduit (BORED)
6 - 14/7C for Heads 1,2,4,5,6,8
3 - 14/7C for Ped.Heads P4,P6
3 - 14/2C for Ped.Push Button PB-4,PB-6
1 - 24/8C for CAT5 for Sensys RPT
1 - 24/8C for CAT5 for Sensys ACP
4 - Emer.Pre-Emption Cable
1 - *6 AWG (EGC)

(G)
2 - 2" Conduit
0 - Item Removed
2 - 12 Single Mode Fiber ODUG

(H)
1 - 3" Conduit
1 - 14/7C for Ped.Head P6
1 - 14/2C for Ped.Push Button PB-6
1 - *6 AWG (EGC)

(K)
2 - 2" Conduit (BORED)
1 - 12 Single Mode Fiber ODUG
1 - Spare Conduit for Future Use (Cap and Label)

(K1)
2 - 2" Conduit
1 - 12 Single Mode Fiber ODUG
1 - Spare Conduit for Future Use (Cap and Label)

(J)
Match Ex.Conduit(s) Into Ex.Controller
Coordination with City of Fairfax Req'd.
6 - 14/7C for Heads 1,2,4,5,6,8
4 - 14/7C for Ped.Heads P4,P6
4 - 14/2C for Ped.Push Button PB-4,PB-6
1 - 24/8C for CAT5 for Sensys RPT
1 - 24/8C for CAT5 for Sensys ACP
4 - Emer.Pre-Emption Cable
2 - 12 Single Mode Fiber ODUG
3 - *6 AWG (EGC)

NOTE(S):
EGC - Equipment Grounding Conductor
ACP - Access Point (SENSYS)
RPT - Repeater (SENSYS)
All Conduits are trenched unless directed to be BORED

Signal Pole & Controller Legend

(ALL DIMENSIONS ARE TO CENTER OF POLE)

The MP-1 (and Mast Arms) shall be designed to meet any NESC utility clearance requirements

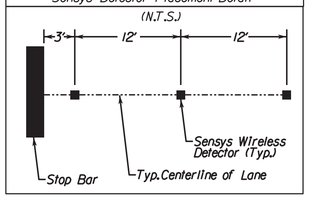
1
St'd Dual Mast Arm Pole (MP-1) with St'd PF-1 Foundation
68.3' Left of Rte.50 Constr.Baseline Sta.24+76.68
65' Mast Arm 90° Angle to Rte.50 Constr.Baseline
55' Mast Arm 0° Angle to Rte.50 Constr.Baseline
Signal Head Placement:
28.8', 40.8', 52.8', 60.8' (65' Mast Arm)
36.7', 48.7' (55' Mast Arm)
Sign Placement:
14.1', 46.8', 64.1' (65' Mast Arm)
13.6' (50' Mast Arm)
Pre-emption Placement:
56.8' (65' Mast Arm)
42.7' (55' Mast Arm)
NOTE: Contractor shall NOT Impact nearby waterline.
Lateral Offset Requirements Met: YES

2
St'd Dual Mast Arm Pole (MP-1) with St'd PF-1 Foundation
51.37' Right of Rte.50 Constr.Baseline Sta.25+57.28
60' Mast Arm 180° Angle to Rte.50 Constr.Baseline
55' Mast Arm 270° Angle to Rte.50 Constr.Baseline
Signal Head Placement:
45.8', 56.8' (60' Mast Arm)
24.3', 36.3', 48.3' (55' Mast Arm)
Sign Placement:
26.8', 49.6', 53.7', 59.0' (60' Mast Arm)
11.0', 30.3', 52.3' (55' Mast Arm)
Pre-emption Placement:
36.6' (60' Mast Arm)
41.3' (55' Mast Arm)
Lateral Offset Requirements Met: YES

3
Existing Controller to REMAIN.
(City Traffic Engineer determined Ex.Controller to remain.)
Existing Power Connection to remain.
Contractor shall modify Controller to accomodate new devices and new connections.

Sensys Detector Placement Detail

(N.T.S.)



PREEMPTION SENSORS

PROPOSED

Police & Fire Dept. Emergency Preemption Sensors — PD

Emergency Vehicle Pre-emption (EVP) Notes:

See General Notes on Sheet 7(1) for Details and Contact Information about EVP System. City of Fairfax will maintain the EVP system.

Notes:

1. Existing Power Service is to remain. Contractor is SOLELY responsible (including any cost thereof for coordinating with Dominion Power to ensure adequate power service can be maintained with proposed modifications.

2. No aerial utilities are be permitted in front of the mast arms, unless they are higher than the proposed mast arm. Utilities are to be relocated if they conflict within 1' of the mast arms. Contractor is to coordinate this with any utility company and is responsible for any costs associated with this relocation, and shall be incidental to the cost of the project, not to be paid for separately.

3. The contractor shall be responsible for providing and maintaining communication to the controller at all times. The contractor is responsible for any costs associated with providing communication to the traffic signal. See Sheet General Notes on Sheet 7(1) for contact information and details.

4. All existing loop detectors shall be abandoned or removed. All proposed Sensys Wireless Detectors shall be so they are flush mounted after final surface course Coordination with City of Fairfax Engineer is required for final location of detectors. City approval of locations is required prior to installation.

5. Existing Controller is to be modified to accomodate modification shown for the proposed Improvements. The Contractor SHALL coordinate with the City of Fairfax.

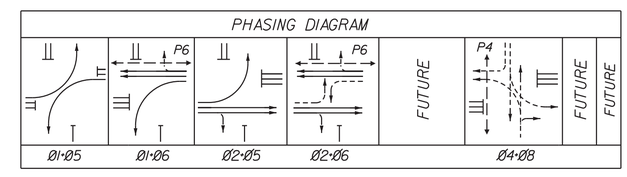
6. Contractor shall be responsible for any damage done to the traffic signal during construction. The project shall have a qualified signal crew on-call at all times for any issue that may arise and need to be fixed immediately.

7. The Contractor is responsible for any cost associated for police officer use during construction. Fourteen (14) days notice is required to request police officer use for intersection control. This cost is not to be paid for seperately and shall be incidental to the cost of the project.

Pavement Marking Note:
See Pavement Marking Plans for details. (Sheet 8 Series)

Note:
Ped.Heads shall be installed and oriented so that pedestrians in the crosswalk or ramp area do not have an obstructed view of the Ped.Head.

PHASING DIAGRAM



Revisions	
Date	Initial

COMMONWEALTH OF VIRGINIA
ADAM D. WELSCHENBACH
Lic. No. 044359
PROFESSIONAL ENGINEER

Adam D Welschenbach
2014.08.15 17:21:44 -04'00'

Rinker Design Assoc. P.C.
Manassas, Virginia
PROFESSIONAL ENGINEER

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Note:
These are City of Fairfax signal(s) maintained by the City of Fairfax Department of Public Works.

TRAFFIC SIGNAL MODIFICATION

Intersection of:
Fairfax Boulevard (U.S. Route 50) @
Bevan Drive

City of Fairfax, Virginia

SCALE	DATE:
0 25' 50'	June 2014

DRAWN: ADW	DESIGNED: ADW	CHECKED: ADW	
PLAN NO. -	PROJECT Jermantown Road Phase II Improvements	FILE NO. -	SHEET NO. 7(3)

Rinker Design Associates, P.C.
Civil Engineering - Surveying - Land Planning
Transportation - Environmental
Right of Way Services
Office Locations
400 Hartman Boulevard, Suite 200, Fredericksburg, VA 22407, Tel: (540) 373-4000, Fax: (540) 373-4001
400 Discovery Boulevard, Suite 200, Glen Allen, VA 23060, Tel: (804) 346-4000, Fax: (804) 346-4000
4000 Hartman Boulevard, Suite 200, Manassas, VA 20110, Tel: (703) 368-7373, Fax: (703) 257-0441

CITY OF FAIRFAX DEPARTMENT OF PUBLIC WORKS

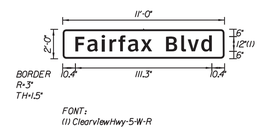
8/15/2014

FINAL PLANS

PROJECT MANAGER Wendy Block Sanford, City of Fairfax
SURVEYED BY Rinker Design Assoc., P.C. (703) 368-7373
DESIGN SUPERVISED BY Mark Gunn, P.E., Rinker Design Assoc., P.C. (703) 368-7373
DESIGNED BY Adam D. Welschenbach, P.E., Rinker Design Assoc., P.C. (703) 368-7373

REVISED	STATE	FEDERAL AID PROJECT OWNER	STATE PROJECT		SHEET NO.
	VA.		-	Jermantown Road Phase II Improvements Proposed Traffic Signal Modifications	7(4)

SIGN DETAIL



SIGN NUMBER	S-8
WIDTH x HGHT.	11'-0" x 2'-0"
BORDER WIDTH	1.5"
CORNER RADIUS	3"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Blue
LEGEND/BORDER	TYPE: Reflective
	COLOR: White/White

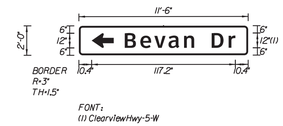
SYMBOL	ROT	X	Y	WID	HT

Panel Style: Std_D3-V1_blue Overhead Street Name.ssi
Dimensions are in inches,tenths
Letter locations are panel-edge to lower left corner

LETTER POSITIONS (X)

F	a	i	r	f	a	x		B	l	v	d	LENGTH	SERIES/SIZE
10.4	20.1	31.8	38.2	45.5	53.2	63.7	72.9	84.3	96.7	101.9	113	111.3	ClearviewHwy-5-W-R 129.8

SIGN DETAIL



SIGN NUMBER	S-9
WIDTH x HGHT.	11'-6" x 2'-0"
BORDER WIDTH	1.5"
CORNER RADIUS	3"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Blue
LEGEND/BORDER	TYPE: Reflective
	COLOR: White/White

SYMBOL	ROT	X	Y	WID	HT
ARUP	90	10.4	6	12	18

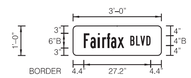
Panel Style: Std_D3-V1_blue Overhead Street Name.ssi
Dimensions are in inches,tenths
Letter locations are panel-edge to lower left corner

LETTER POSITIONS (X)

B	e	v	a	n		D	r	LENGTH	SERIES/SIZE
37.4	50.1	61.6	73.1	85.8	94.1	106.3	122.1	90.2	ClearviewHwy-5-W 129.8

SIGN DETAIL

Note: This sign shall be double sided, to enable proper reading on both sides. Sign shall require modified sign bracket to mount on mast arm pole. See Sheet 7(2) for details.



SIGN NUMBER	S-14
WIDTH x HGHT.	3'-0" x 1'-0"
BORDER WIDTH	0"
CORNER RADIUS	1.5"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Blue
LEGEND/BORDER	TYPE: Reflective
	COLOR: White/Blue

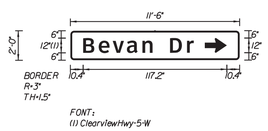
SYMBOL	ROT	X	Y	WID	HT

Panel Style: Street Name 6-4in no border.ssi
Dimensions are in inches,tenths
Letter locations are panel-edge to lower left corner

LETTER POSITIONS (X)

F	a	i	r	f	a	x	LENGTH	SERIES/SIZE
4.4	7	10.2	11.9	13.8	15.4	18.1	16.4	B 2000 6.4
B	L	V	D					B 2000
23.3	25.7	27.5	29.9				8.3	4

SIGN DETAIL



SIGN NUMBER	S-10
WIDTH x HGHT.	11'-6" x 2'-0"
BORDER WIDTH	1.5"
CORNER RADIUS	3"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Blue
LEGEND/BORDER	TYPE: Reflective
	COLOR: White/White

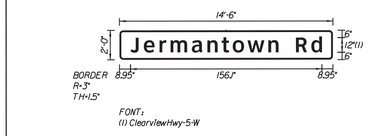
SYMBOL	ROT	X	Y	WID	HT
ARUP	270	100.6	6	12	18

Panel Style: Std_D3-V1_blue Overhead Street Name.ssi
Dimensions are in inches,tenths
Letter locations are panel-edge to lower left corner

LETTER POSITIONS (X)

B	e	v	a	n		D	r	LENGTH	SERIES/SIZE
10.4	23.1	34.5	46.1	58.7	67	81.3	95.1	90.2	ClearviewHwy-5-W 129.8

SIGN DETAIL



SIGN NUMBER	S-13
WIDTH x HGHT.	14'-6" x 2'-0"
BORDER WIDTH	1.5"
CORNER RADIUS	3"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Blue
LEGEND/BORDER	TYPE: Reflective
	COLOR: White/White

SYMBOL	ROT	X	Y	WID	HT

Panel Style: Std_D3-V1_blue Overhead Street Name.ssi
Dimensions are in inches,tenths
Letter locations are panel-edge to lower left corner

LETTER POSITIONS (X)

J	e	f	m	a	n	t	o	w	n		R	d	LENGTH	SERIES/SIZE
8.9	19.8	32.7	41.6	59	71.7	83.3	92.3	104.3	121.4	129.7	143.9	156.4	156.1	ClearviewHwy-5-W 129.8

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Revisions

Date	Initial

COMMONWEALTH OF VIRGINIA
ADAM D. WELSCHENBACH
Lic. No. 044359
PROFESSIONAL ENGINEER

Adam D Welschenbach
2014.08.15 17:22:13 -04'00'

Rinker Design Assoc. P.C.
Manassas, Virginia
PROFESSIONAL ENGINEER

Note:
These are City of Fairfax signal(s) maintained by the City of Fairfax Department of Public Works.

TRAFFIC SIGNAL MODIFICATION

Signal Signage Details

City of Fairfax, Virginia

SCALE 0 25' 50'

DATE: June 2014

DRAWN: ADW DESIGNED: ADW CHECKED: ADW

PLAN NO.	PROJECT	FILE NO.	SHEET NO.
-	Jermantown Road Phase II Improvements	-	7(4)

FINAL PLANS

Rinker Design Associates, P.C.
Civil Engineering • Surveying • Land Planning
Transportation • Environmental
Right of Way Services
Office Locations
4101 Dominion Boulevard, Suite 100, Glen Allen, VA 23060, Phone: (804) 747-1758, Fax: (804) 747-5960
4101 Dominion Boulevard, Suite 200, Glen Allen, VA 23060, Phone: (804) 747-1758, Fax: (804) 747-5960
9990 Mayland Drive, Suite 2000, Richmond, VA 23233, Phone: (804) 270-7440, Fax: (804) 270-7441
4229 Lafayette Center Drive, Suite 1950, Chantilly, VA 20151, Phone: (703) 378-7575, Fax: (703) 378-7578

CITY OF FAIRFAX DEPARTMENT OF PUBLIC WORKS

8/15/2014

PROJECT MANAGER Wendy Black Sanford, City of Fairfax, (703) 385-7889
SURVEYED BY Rinker Design Assoc., P.C. (703) 368-7373
DESIGN SUPERVISED BY Mark Gunn, P.E., Rinker Design Assoc., P.C. (703) 368-7373
DESIGNED BY Adam D. Welschenbach, P.E., Rinker Design Assoc., P.C. (703) 368-7373

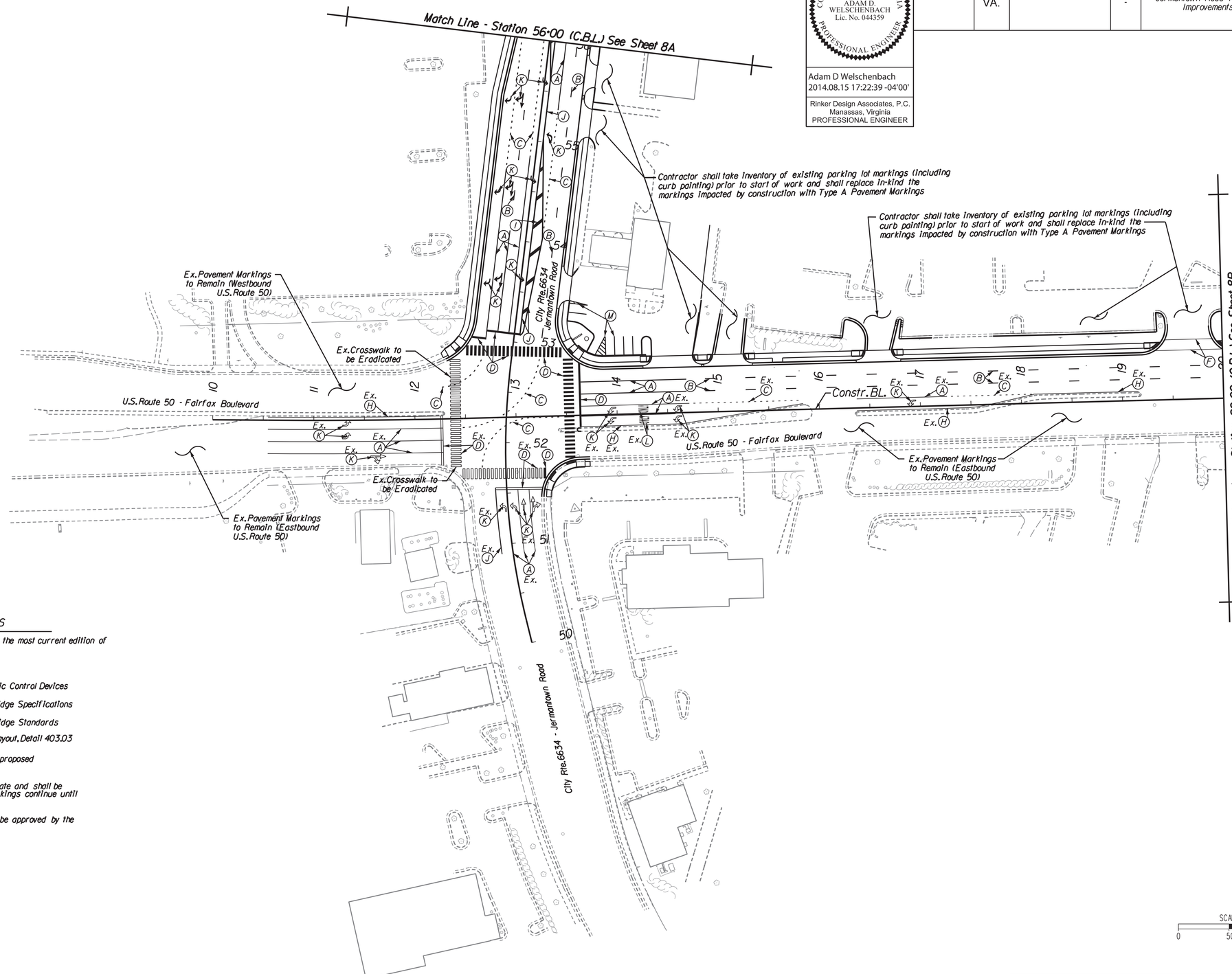
PAVEMENT MARKING PLAN

REVISED	STATE	FEDERAL AID PROJECT OWNER	STATE PROJECT		SHEET NO.
	VA.		-	Jermantown Road Phase II Improvements	8

COMMONWEALTH OF VIRGINIA
ADAM D. WELSCHENBACH
Lic. No. 044359
PROFESSIONAL ENGINEER

Adam D Welschenbach
2014.08.15 17:22:39 -04'00'

Rinker Design Associates, P.C.
Manassas, Virginia
PROFESSIONAL ENGINEER



** Pavement Marking Legend **

- A Type B, Class I, White, 4" Width
- B Type B, Class I, White, 4" Width, 10' Long, 30' Space
- C Type B, Class I, White, 4" Width, 2' Long, 4' Space
- D Type B, Class I, White, 24" Width
- E Type B, Class I, White, 24" Width, 20' Spacing @ 45°
- F Type B, Class I, White, 6" Width
- G Type B, Class I, White, 8" Width
- H Type B, Class I, Yellow, 4" Width
- I Type B, Class I, Yellow, 24" Width, 20' Spacing @ 45°
- J Type B, Class I, Yellow, 4" Width, Double Line, 4" Space
- K Type B, Class I, White, Turn Lane Use Arrow
- L Type B, Class I, White, "Only" Pavement Marking
- M Type A, White, 4" Width

Ex. (X) Existing pavement marking matches proposed plan. Do not eradicate, replace or remove unless directed by the City Traffic Engineer.

Note: Any existing condition that does not reflect the pavement marking plan as shown on this sheet, shall be completely eradicated per City Standards.

Pavement Marking General Notes

1. All proposed pavement markings shall be in accordance with the most current edition of each of the following and any revision thereof:
   - A. Manual on Uniform Traffic Control Devices (MUTCD)
   - B. The Virginia Supplement to the Manual on Uniform Traffic Control Devices
   - C. The Virginia Department of Transportation Road and Bridge Specifications
   - D. The Virginia Department of Transportation Road and Bridge Standards
   - D. City of Fairfax Standard Specifications, Parking Stall Layout, Detail 403.03
2. Any existing pavement markings which will conflict with the proposed pavement markings as shown, shall be completely eradicated.
3. Limits shown on proposed pavement markings are approximate and shall be modified in the field to ensure that proposed pavement markings continue until existing pavemet markings can be matched.
4. Any changes to the Pavement Marking plans as shown, shall be approved by the City Traffic Engineer.
5. Snowplowable Raised Markers are not to be installed.

PLAN NO.	PROJECT	FILE NO.	SHEET NO.
-	Jermantown Road Phase II Improvements	-	8

FINAL PLAN

Rinker Design Associates, P.C.
Civil Engineering - Surveying - Land Planning
Transportation - Environmental
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9302 Lee Highway, Suite 1100 Fairfax, VA 22031 Phone: (703) 273-2020
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CITY OF FAIRFAX
8/15/2014

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DESIGN SUPERVISED BY Mark Gunn, P.E., Rinker Design Assoc., P.C. (703) 368-7373
DESIGNED BY Adam D. Welschenbach, P.E., Rinker Design Assoc., P.C. (703) 368-7373

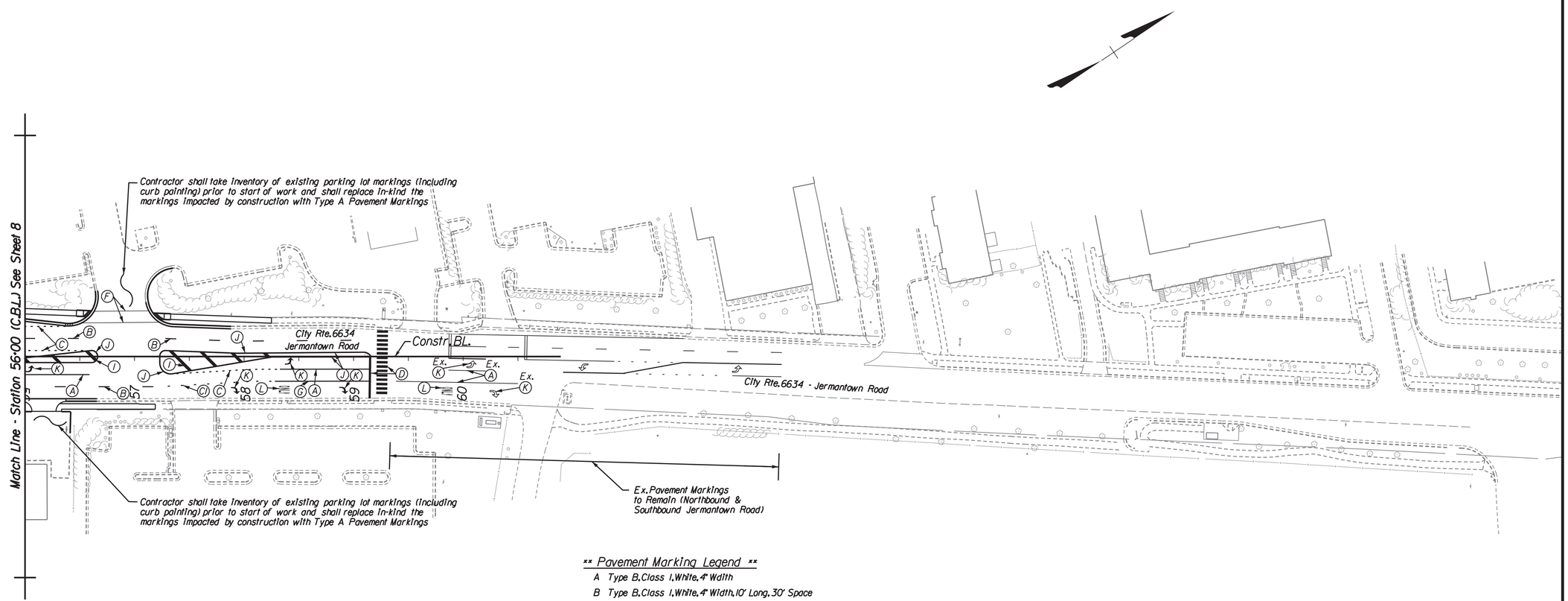
PAVEMENT MARKING PLAN

COMMONWEALTH OF VIRGINIA
ADAM D. WELSCHENBACH
Lic. No. 044359
PROFESSIONAL ENGINEER

Adam D Welschenbach
2014.08.15 17:23:03 -04'00'

Rinker Design Associates, P.C.
Manassas, Virginia
PROFESSIONAL ENGINEER

REVISED	STATE	FEDERAL AID PROJECT OWNER	STATE	PROJECT	SHEET NO.
01-25-11	VA.		-	Jermantown Road Phase II Improvements	8A



** Pavement Marking Legend **

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- L Type B, Class I, White, "Only" Pavement Marking

Ex.
(X) Existing pavement marking matches proposed plan. Do not eradicate, replace or remove unless directed by the City Traffic Engineer.

Note: Any existing condition that does not reflect the pavement marking plan as shown on this sheet, shall be completely eradicated per City Standards.

SCALE
0 50' 100'

PLAN NO.	PROJECT	FILE NO.	SHEET NO.
-	Jermantown Road Phase II Improvements	-	8A

FINAL PLAN

Rinker Design Associates, P.C.
Civil Engineering - Surveying - Land Planning
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9990 Darnestown Boulevard, Suite 100, Gaithersburg, MD 20878, Tel: (301) 217-0168
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CITY OF FAIRFAX

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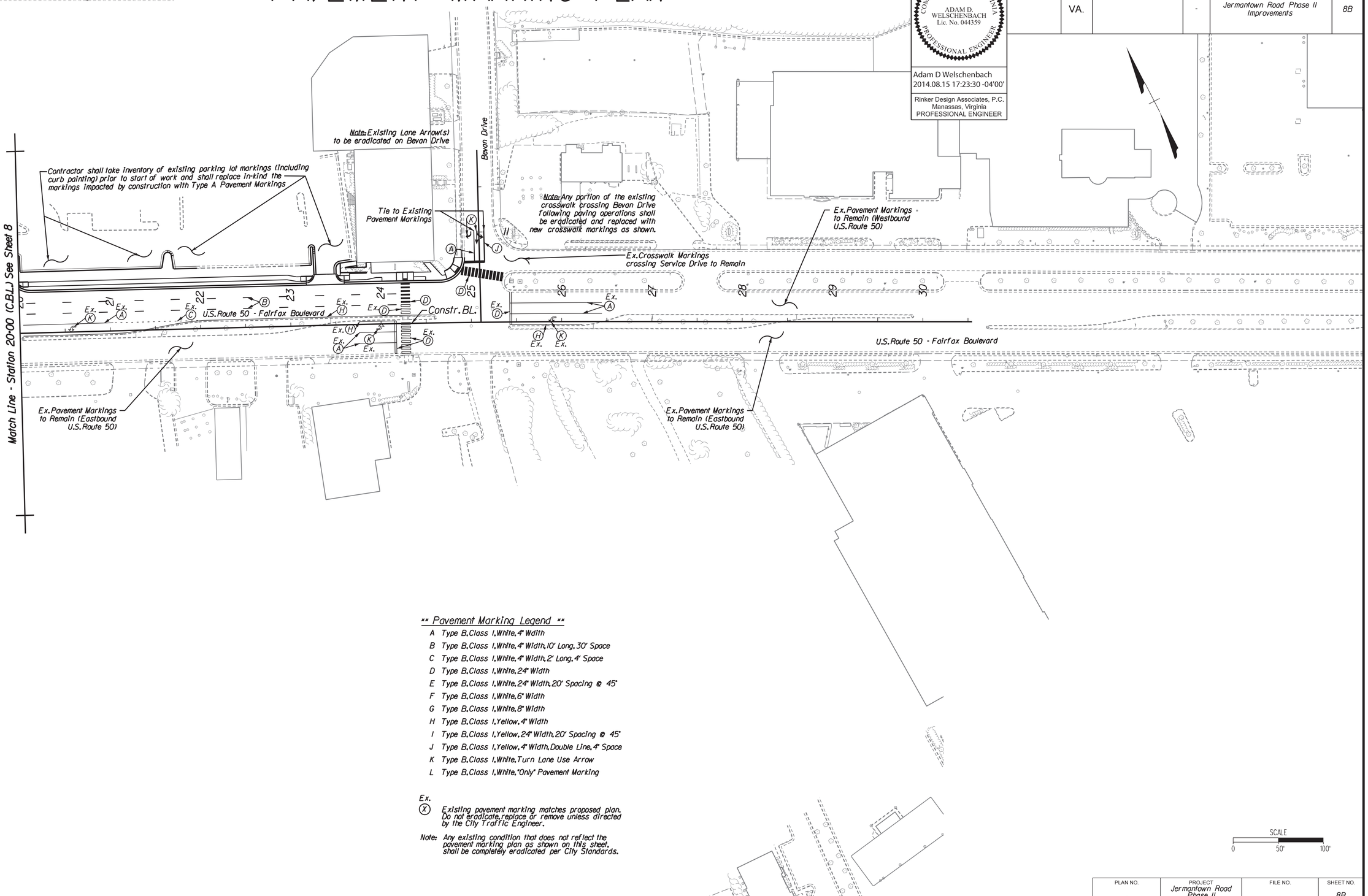
DESIGN SUPERVISED BY Mark Gunn, P.E., Rinker Design Assoc., P.C. (703) 368-7373
DESIGNED BY Adam D. Welschenbach, P.E., Rinker Design Assoc., P.C. (703) 368-7373

PAVEMENT MARKING PLAN



COMMONWEALTH OF VIRGINIA
ADAM D. WELSCHENBACH
Lic. No. 044359
PROFESSIONAL ENGINEER

Adam D Welschenbach
2014.08.15 17:23:30 -04'00'

Rinker Design Associates, P.C.
Manassas, Virginia
PROFESSIONAL ENGINEER

REVISED	STATE	FEDERAL AID PROJECT OWNER	STATE PROJECT		SHEET NO.
	VA.		-	Jermantown Road Phase II Improvements	8B

PLAN NO.	PROJECT	FILE NO.	SHEET NO.
-	Jermantown Road Phase II Improvements	-	8B

Rinker Design Associates, P.C.
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www.RinkerDesign.com

CITY OF FAIRFAX

8/15/2014

FINAL PLAN