

ALEXANDRIA

Virginia

CITY OF

*Office of Transit Services & Programs
Department of Transportation & Environmental Services*

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PLANS FOR:

COMMONWEALTH AVENUE AND MOUNT VERNON AVENUE: BICYCLE BOX STRIPING PLAN

2ND SUBMISSION: JANUARY 2012

3RD SUBMISSION: APRIL 2013

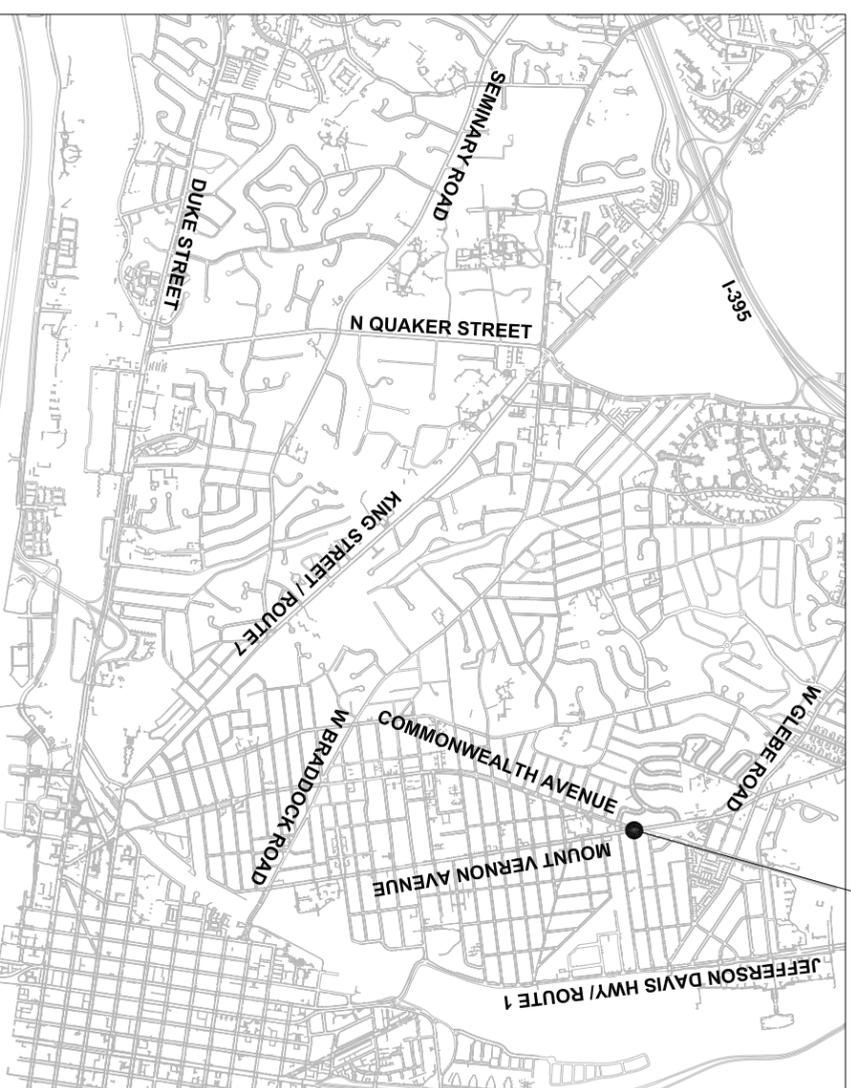
SHEET INDEX:

- 1 TITLE SHEET
- 2-4 GENERAL NOTES AND DETAIL SHEETS
- 5-6 STRIPING PLAN

LOCATION MAP

N.T.S.

PROJECT
AREA



NOT FOR CONSTRUCTION

REV	REVISIONS	DATE
1	EXTENDED BIKE LANES	04/9/13

TooleDesignGroup
6525 BELCREST ROAD, SUITE 400
HYATTSVILLE, MARYLAND 20782
PLANNING | ENGINEERING
301.927.1900

CITY OF ALEXANDRIA, VA
COMMONWEALTH AVENUE AND MOUNT VERNON
AVENUE: BICYCLE BOX STRIPING PLAN
MOUNT VERNON AVENUE AND COMMONWEALTH AVENUE
TITLE SHEET

DRAWN BY: MCK
CHECKED BY: EM
SCALE: NTS
DATE: DECEMBER 2011
JOB NO.: 5260.3
SHEET

GENERAL NOTES

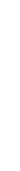
1. ALL CONSTRUCTION MATERIALS AND PROCEDURES SHALL BE GOVERNED BY THE STANDARD SPECIFICATIONS FOR HIGHWAYS AND STRUCTURES, ISSUED BY THE VIRGINIA DEPARTMENT OF TRANSPORTATION.
2. BASE MAPPING WAS PREPARED FROM GIS DATA PROVIDED BY THE CITY OF ALEXANDRIA. ALL DIMENSIONS SHALL BE VERIFIED IN THE FIELD PRIOR TO ORDERING MATERIALS FOR CONSTRUCTION. WHEN THESE PLANS ARE IN CONFLICT WITH ACTUAL SITE CONDITIONS, ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER BEFORE TO THE START OF WORK. PROPOSED STRIPING AND SIGNS MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER.
3. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING MISS UTILITY PRIOR TO BEGINNING WORK. ANY DAMAGE TO UTILITIES MUST BE REPAIRED OR REPLACED BY THE CONTRACTOR AT HIS OWN EXPENSE.
4. THE CONTRACTOR SHALL TAKE ADEQUATE PRECAUTION TO PROTECT ALL WALKS, GRADING, SIDEWALKS AND FEATURES OUTSIDE THE LIMITS OF WORK AND SHALL REPAIR AND REPLACE OR OTHERWISE MAKE GOOD AS DIRECTED BY THE ENGINEER ANY SUCH OR OTHER DAMAGE SO CAUSED.

SIGNING AND PAVEMENT MARKINGS

5. ALL STRIPING AND SIGN WORK SHALL MEET ALL APPLICABLE VDOT AND THE CITY OF ALEXANDRIA STANDARDS AND SPECIFICATIONS AND 2009 MANUAL ON UNIFORM TRAFFIC CONTROL (MUTCD) REQUIREMENTS.
6. ALL PAVEMENT MARKINGS ARE THERMOPLASTIC UNLESS OTHERWISE NOTED.
7. ALL EXISTING PAVEMENT MARKINGS MAY NOT BE SHOWN. ALL EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH PROPOSED PAVEMENT MARKINGS SHALL BE ERADICATED.
8. PARKING ZONE STRIPING - 4" SOLID WHITE TRANSVERSE PARKING LINES SHALL MATCH PARKING REGULATION SIGNS, WHERE PRESENT. IF NO SIGNS ARE PRESENT, LINES SHALL BE LOCATED ACCORDING TO CITY OF ALEXANDRIA PARKING REGULATIONS, OR AS DIRECTED BY THE ENGINEER.
9. DRIVEWAYS - NOT ALL DRIVEWAYS HAVE BEEN LOCATED FOR THIS STRIPING PLAN. FIELD VERIFY DRIVEWAY LOCATIONS BEFORE APPLYING STRIPING.
10. ALL SIGNS SHALL BE HIGH INTENSITY SHEETING MEETING THE REQUIREMENTS OF AASHTO M268.
11. PROPOSED SIGNS SHALL BE INSTALLED SO THAT NO PORTION OF THE SIGN PANEL OVERHANGS ADJACENT ROADWAY PAVEMENT, I.E. SHALL NOT HANG IN FRONT OF A FACE OF CURB.
12. PROPOSED SIGN POSTS SHALL BE LOCATED A MINIMUM OF 2 FEET BEHIND ANY ADJACENT FACE OF CURB. IF LOCATED IN OR ADJACENT TO SIDEWALKS, A 32" MINIMUM CLEAR AND 48" PREFERRED PASSING SPACE ON EXISTING AND PROPOSED SIDEWALKS SHALL BE MAINTAINED.
13. PROPOSED SIGNS AT NEW LOCATIONS SHALL BE INSTALLED SO THEY DO NOT BLOCK THE VISIBILITY OF ANY EXISTING SIGNS OR SIGNALS.
14. PROPOSED SIGNS AND POSTS SHALL BE CLEAR OF EXISTING FIRE HYDRANTS, SURFACE UTILITY, AND OVERHEAD UTILITY EQUIPMENT A MINIMUM OF 10 FEET.
15. FOR NEW POST INSTALLATION, THE CONTRACTOR SHALL VERIFY THAT THERE ARE NO CONFLICTING UNDERGROUND OR OVERHEAD UTILITIES.
16. SIGNS MOUNTED TO EXISTING LIGHT, SIGNAL OR UTILITY POLES SHALL BE FASTENED WITH A MANUFACTURED STEEL BANDING SYSTEM. POLES SHALL NOT BE DRILLED DIRECTLY. THE CONTRACTOR SHALL SUBMIT MANUFACTURER INFORMATION ON THE BANDING SYSTEM TO THE ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.

18. IF SIGN INSTALLATION IS SHOWN ON A POLE THAT IS NOT OWNED BY THE CITY, WRITTEN PERMISSION MUST BE OBTAINED FROM THE OWNER (UTILITY COMPANY OR PROPERTY OWNER). THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING REQUIRED PERMISSION.
19. ALL SIGN LOCATIONS SHOWN ON THE PLANS ARE SCHEMATIC AND MAY NOT REFLECT ACTUAL FIELD LOCATIONS. THE CONTRACTOR SHALL VERIFY EACH LOCATION PRIOR TO INSTALLING A SIGN. IF AT ANY POINT THE CONTRACTOR FINDS A CONFLICT, THE CONTRACTOR SHALL CONTACT THE ENGINEER PRIOR TO INSTALLING THE PROPOSED SIGN. PROPOSED SIGN LOCATIONS CAN BE ADJUSTED AS APPROVED BY THE ENGINEER.

MARKING LEGEND

①		BE	BEGIN ERADICATION
②		EE	END ERADICATION
③		ES	ERADICATE SYMBOL
④			4" SOLID WHITE LANE LINE OR INSIDE BICYCLE LANE LINE
⑤			4" DOTTED WHITE LINE (2' STRIPE, 4' SKIP)
⑥			6" DOTTED WHITE LINE (2' STRIPE, 4' SKIP)
⑦			4" DOUBLE SOLID YELLOW CENTERLINE
⑧			4" DOUBLE DOTTED YELLOW CENTERLINE (2' STRIPE, 4' SKIP)
⑨			12" STOP LINE
⑩			CROSSWALK WITH 6" SOLID WHITE LINE FOR PARALLEL LINES AND 24" SOLID WHITE LINE (4' O.C. AT 90° ALIGNED WITH CURB, UNLESS OTHERWISE NOTED)
⑪			GORE MARKINGS WITH 6" SOLID WHITE LINE (5' O.C. AT 45° UNLESS OTHERWISE NOTED)
⑫			WHITE PAVEMENT ARROW AND TEXT
⑬			COLORIZED COATING - GREEN
⑭			PROPOSED FLEXIBLE BOLLARD
⑮			WHITE PAVEMENT BIKE DETECTOR SYMBOL

-  NEW OR RELOCATED SIGN
-  SIGN AND POST

NOT FOR CONSTRUCTION



REV	REVISIONS	DATE
1	EXTENDED BIKE LANES	04/9/13



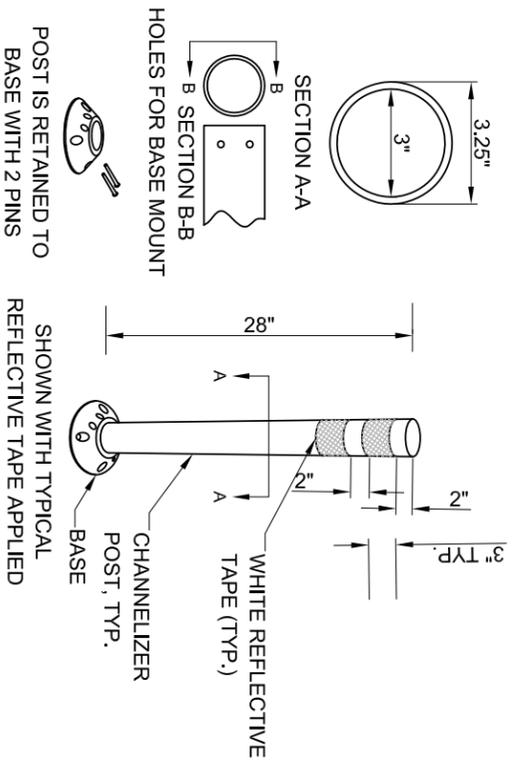
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CITY OF ALEXANDRIA, VA
COMMONWEALTH AVENUE AND MOUNT VERNON AVENUE: BICYCLE BOX STRIPING PLAN
MOUNT VERNON AVENUE AND COMMONWEALTH AVENUE
GENERAL NOTES AND LEGEND

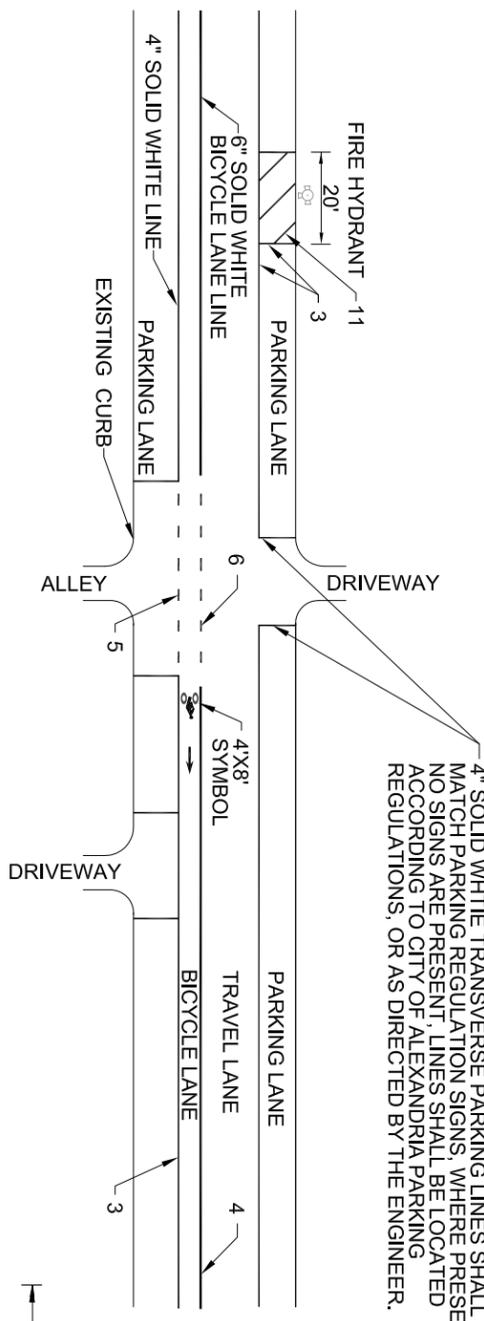
DRAWN BY: MCK
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SHEET
2
OF 6 SHEETS



- FLEXIBLE BOLLARD PLACEMENT NOTES:**
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
 2. DIMENSIONS, MATERIALS, AND ATTACHMENTS MAY VARY BETWEEN MANUFACTURERS.
 3. COLOR OF POST SHALL MATCH COLOR OF APPLICABLE EDGE LINE.
 4. SUGGESTED MANUFACTURERS INCLUDE: DAVIDSON TRAFFIC CONTROL PRODUCTS, MODEL FLEXI-GUIDE 300 SERIES SURFACE MOUNT CHANNELIZER POST OR APPROVED EQUAL.

28" WHITE FLEXIBLE BOLLARDS DETAIL

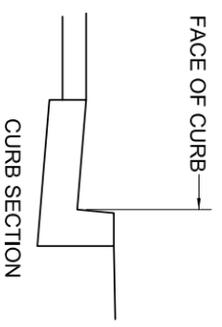
N.T.S.



TYPICAL LANE STRIPING - BICYCLE LANE

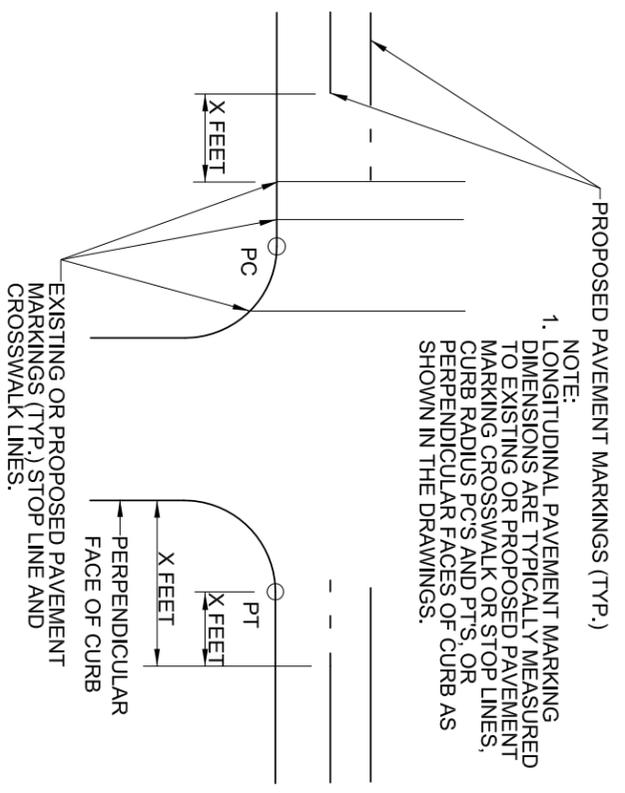
N.T.S.

- NOTE:**
1. LATERAL PAVEMENT MARKING DIMENSIONS ARE TYPICALLY MEASURED TO AN ADJACENT FACE OF CURB OR TO THE CENTERLINE OF AN ADJACENT PAVEMENT MARKING AS SHOWN IN THE DRAWINGS.



TYPICAL LATERAL STRIPING DIMENSIONS

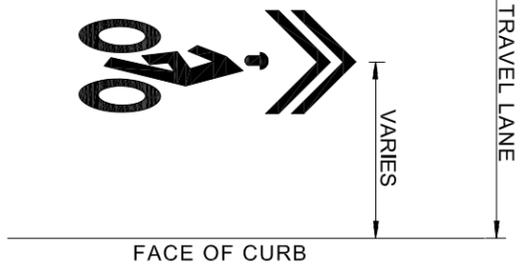
N.T.S.



TYPICAL LONGITUDINAL STRIPING DIMENSIONS

N.T.S.

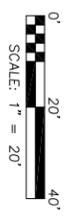
- SHARED LANE SYMBOL PLACEMENT NOTES:**
1. IN LOCATIONS WITH ON-STREET PARKING, SHARED LANE MARKING SYMBOLS SHALL BE PLACED SO THAT THEIR CENTERS ARE A MINIMUM OF 11 FEET FROM THE ADJACENT FACE OF CURB, UNLESS SHOWN OTHERWISE ON THE PLAN SHEETS.
 2. IN LOCATIONS WITHOUT PARKING, SHARED LANE MARKING SYMBOLS SHALL BE PLACED SO THAT THEIR CENTERS ARE 4 FEET FROM THE ADJACENT FACE OF CURB, UNLESS SHOWN OTHERWISE ON THE PLAN SHEETS.
 3. IF LOCATED IN A LANE THAT IS 12' OR NARROWER, SHARED LANE MARKING SYMBOLS SHALL BE CENTERED IN THE LANE UNLESS OTHERWISE NOTED ON THE PLAN SHEETS.
 4. DO NOT PLACE SYMBOLS ON LANE LINES.
 5. SEE PLAN SHEETS FOR SYMBOL LOCATIONS.



SHARED LANE SYMBOL PLACEMENT

N.T.S.

NOT FOR CONSTRUCTION

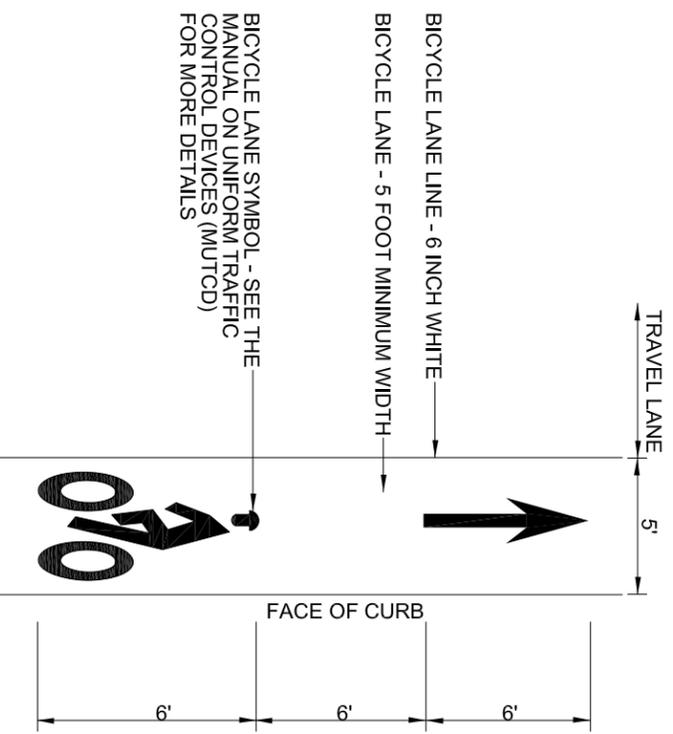


REV	REVISIONS	DATE
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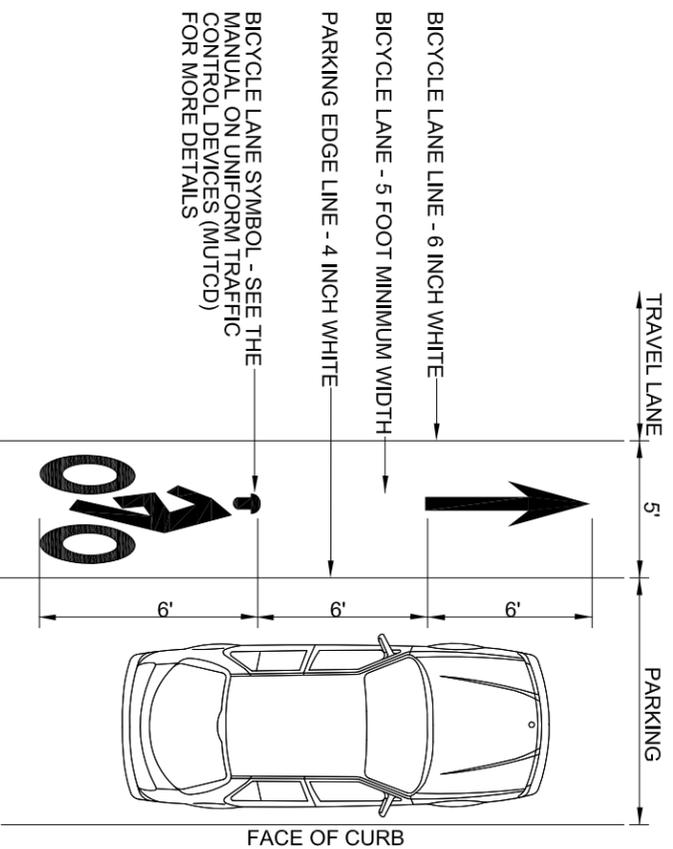
CITY OF ALEXANDRIA, VA
COMMONWEALTH AVENUE AND MOUNT VERNON AVENUE: BICYCLE BOX STRIPING PLAN
 MOUNT VERNON AVENUE AND COMMONWEALTH AVENUE
DETAILS 1

DRAWN BY: MCK
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 SCALE: 1" = 20'
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 SHEET
3
 OF 6 SHEETS



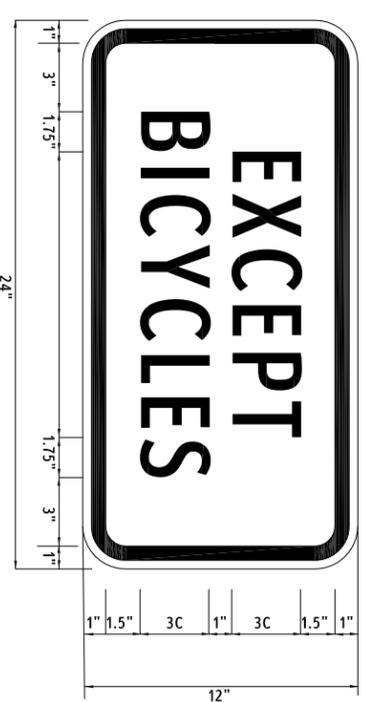
- BICYCLE LANE SYMBOL PLACEMENT NOTES:**
1. DO NOT PLACE SYMBOLS ON LANE LINES.
 2. PLACE BICYCLE LANE SYMBOLS WITHIN CENTER OF BICYCLE LANE.
 3. SEE PLAN SHEETS FOR SYMBOL LOCATIONS.

BICYCLE LANE STRIPING
 ADJACENT TO CURB WITHOUT PARKING
 N.T.S.



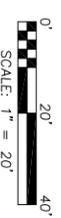
BICYCLE LANE STRIPING
 ADJACENT TO PARKING
 N.T.S.

SIGN NUMBER	R3-5A
FONT	C 2000
WIDTH x HGT.	24" x 12"
BORDER WIDTH	0.375" / 0.625"
CORNER RADIUS	1.875"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective COLOR: White
LEGEND/BORDER	TYPE: Reflective COLOR: Black/Black



R3-5A - "EXCEPT BICYCLES"
 N.T.S.

NOT FOR CONSTRUCTION

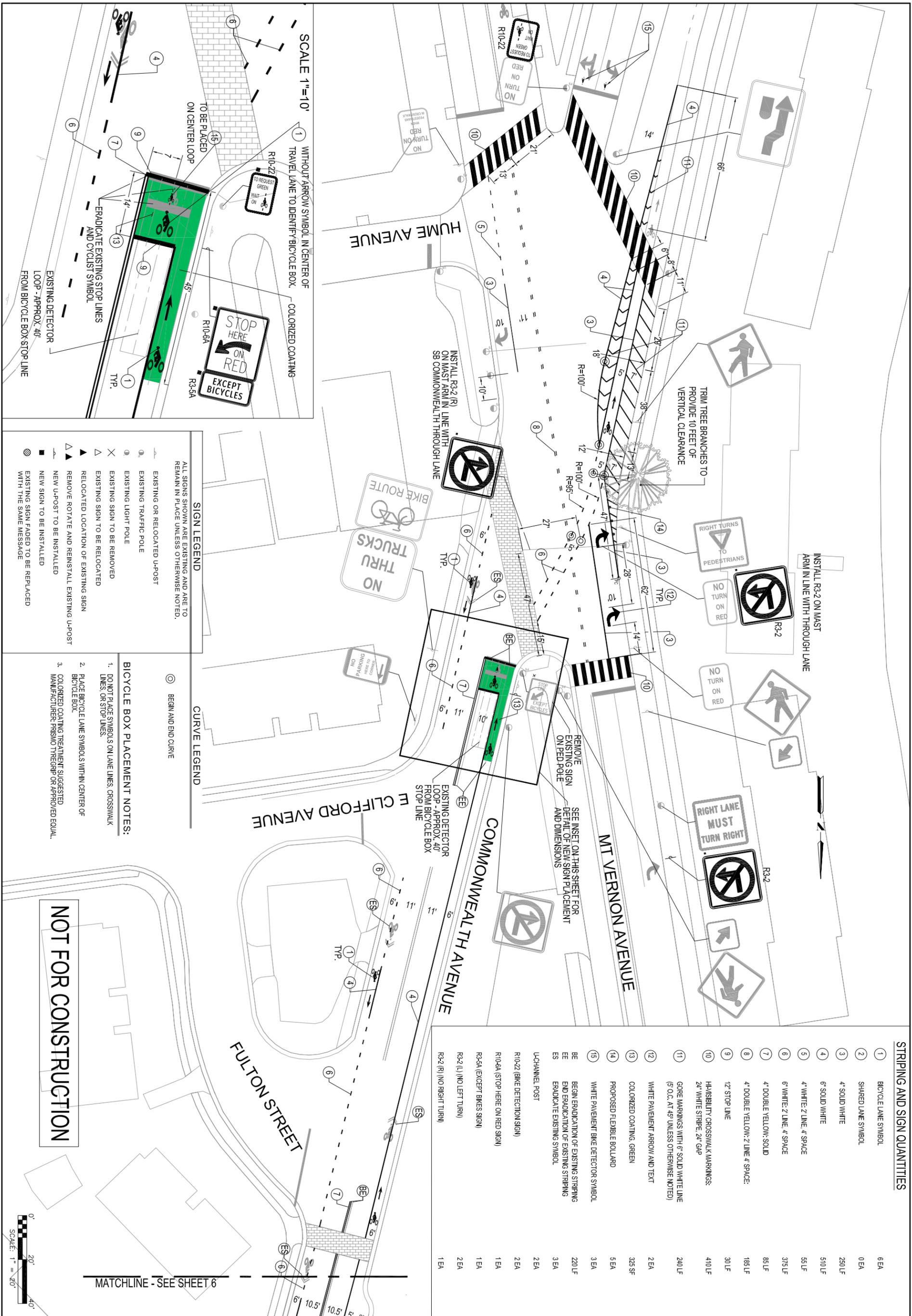


REV	1	EXTENDED BIKE LANES	04/9/13
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CITY OF ALEXANDRIA, VA
 COMMONWEALTH AVENUE AND MOUNT VERNON AVENUE: BICYCLE BOX STRIPING PLAN
 MOUNT VERNON AVENUE AND COMMONWEALTH AVENUE
DETAILS 2

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 SHEET



STRIPING AND SIGN QUANTITIES

1	BICYCLE LANE SYMBOL	6 EA
2	SHARED LANE SYMBOL	0 EA
3	4" SOLID WHITE	290 LF
4	6" SOLID WHITE	510 LF
5	4" WHITE: 2" LINE: 4" SPACE	55 LF
6	6" WHITE: 2" LINE: 4" SPACE	375 LF
7	4" DOUBLE YELLOW: SOLID	85 LF
8	4" DOUBLE YELLOW: 2" LINE 4" SPACE:	185 LF
9	12" STOP LINE	30 LF
10	HVISIBILITY CROSSWALK MARKINGS: 24" WHITE STRIPE: 24" GAP	410 LF
11	GORE MARKINGS WITH 6" SOLID WHITE LINE (5" O.C. AT 45° UNLESS OTHERWISE NOTED)	240 LF
12	WHITE PAVEMENT ARROW AND TEXT	2 EA
13	COLORIZED COATING, GREEN	325 SF
14	PROPOSED FLEXIBLE BOLLARD	5 EA
15	WHITE PAVEMENT BIKE DETECTOR SYMBOL	3 EA
BE	BEGIN ERADICATION OF EXISTING STRIPING	220 LF
EE	END ERADICATION OF EXISTING STRIPING	3 EA
ES	ERADICATE EXISTING SYMBOL	3 EA
U	CHANNEL POST	2 EA
R10-22	(BIKE DETECTION SIGN)	2 EA
R10-64	(STOP HERE ON RED SIGN)	1 EA
R3-5A	(EXCEPT BIKES SIGN)	1 EA
R3-2 (L)	(NO LEFT TURN)	2 EA
R3-2 (R)	(NO RIGHT TURN)	1 EA

SIGN LEGEND

- EXISTING OR RELOCATED U-POST
- ⊙ EXISTING TRAFFIC POLE
- ⊙ EXISTING LIGHT POLE
- ⊙ EXISTING SIGN TO BE REMOVED
- ⊙ EXISTING SIGN TO BE RELOCATED
- ⊙ RELOCATED LOCATION OF EXISTING SIGN
- ▲ REMOVE ROTATE AND REINSTALL EXISTING U-POST
- ▲ NEW U-POST TO BE INSTALLED
- NEW SIGN TO BE INSTALLED
- EXISTING SIGN FADED TO BE REPLACED WITH THE SAME MESSAGE

BICYCLE BOX PLACEMENT NOTES:

1. DO NOT PLACE SYMBOLS ON LANE LINES, CROSSWALK LINES, OR STOP LINES.
2. PLACE BICYCLE LANE SYMBOLS WITHIN CENTER OF BICYCLE BOX.
3. COLORIZED COATING TREATMENT SUGGESTED. MANUFACTURER: PRIMO TREGRIP OR APPROVED EQUAL.

CURVE LEGEND

⊙ BEGIN AND END CURVE

NOT FOR CONSTRUCTION

MATCHLINE - SEE SHEET 6



CITY OF ALEXANDRIA, VA
COMMONWEALTH AVENUE AND MOUNT VERNON AVENUE: BICYCLE BOX STRIPING PLAN
 MOUNT VERNON AVENUE AND COMMONWEALTH AVENUE
STRIPING PLAN



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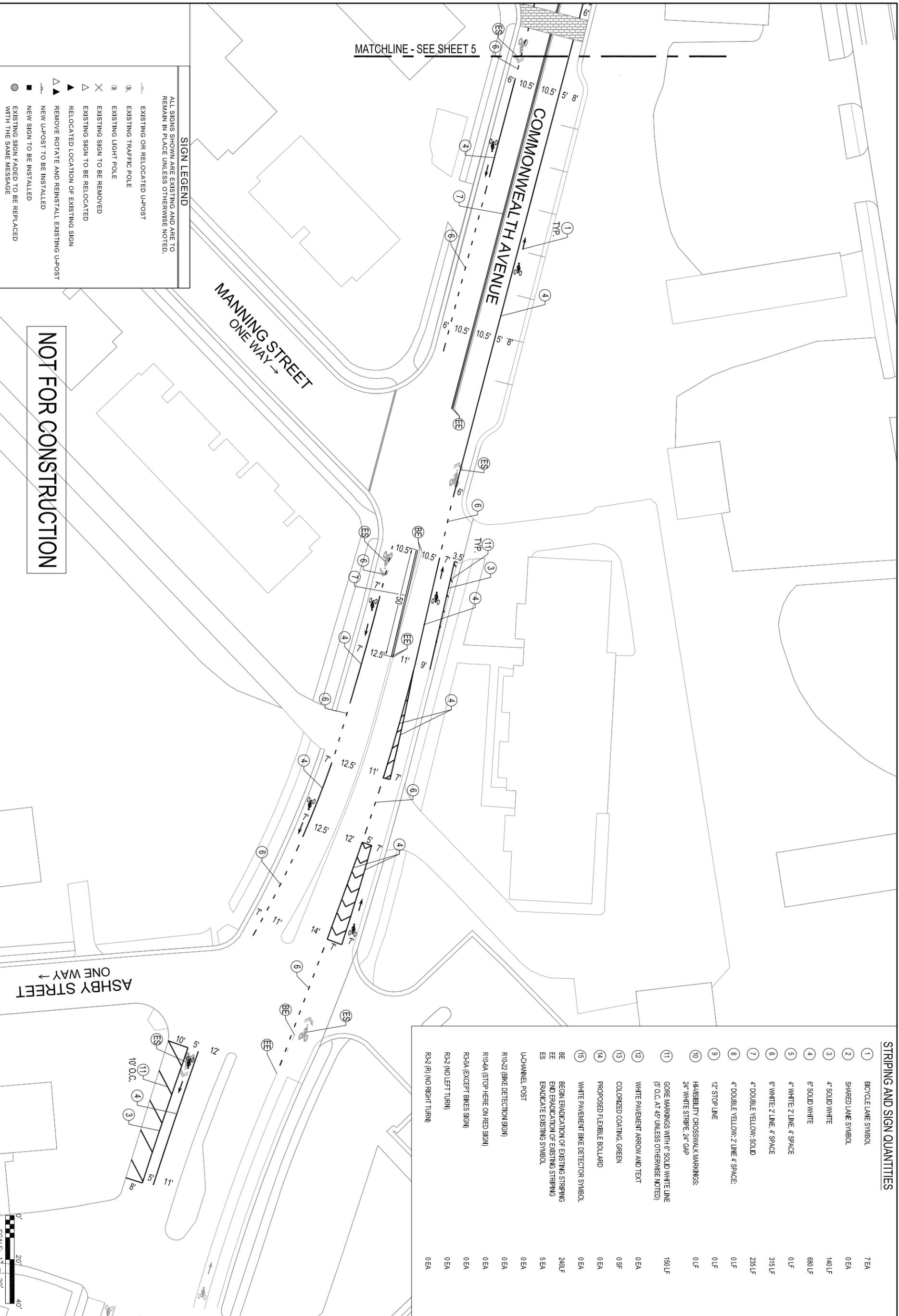
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5
 OF 6 SHEETS

MATCHLINE - SEE SHEET 5

COMMONWEALTH AVENUE

MANNING STREET
ONE WAY →

ASHBY STREET
ONE WAY →



SIGN LEGEND

ALL SIGNS SHOWN ARE EXISTING AND ARE TO REMAIN IN PLACE UNLESS OTHERWISE NOTED.

- EXISTING OR RELOCATED U-POST
- ⊙ EXISTING TRAFFIC POLE
- ⊙ EXISTING LIGHT POLE
- ✕ EXISTING SIGN TO BE REMOVED
- △ EXISTING SIGN TO BE RELOCATED
- ▶ RELOCATED LOCATION OF EXISTING SIGN
- ▲ REMOVE ROTATE AND REINSTALL EXISTING U-POST
- ▲ NEW U-POST TO BE INSTALLED
- NEW SIGN TO BE INSTALLED
- ⊙ EXISTING SIGN FADED TO BE REPLACED WITH THE SAME MESSAGE

NOT FOR CONSTRUCTION

STRIPING AND SIGN QUANTITIES

1	BICYCLE LANE SYMBOL	7 EA
2	SHARED LANE SYMBOL	0 EA
3	4" SOLID WHITE	140 LF
4	6" SOLID WHITE	690 LF
5	4" WHITE: 2" LINE, 4" SPACE	0 LF
6	6" WHITE: 2" LINE, 4" SPACE	315 LF
7	4" DOUBLE YELLOW: SOLID	235 LF
8	4" DOUBLE YELLOW: 2" LINE, 4" SPACE:	0 LF
9	12" STOP LINE	0 LF
10	HAZARDITY CROSSWALK MARKINGS: 24" WHITE STRIPE, 24" GAP	0 LF
11	GORE MARKINGS WITH 6" SOLID WHITE LINE (5' O.C. AT 45° UNLESS OTHERWISE NOTED)	190 LF
12	WHITE PAVEMENT ARROW AND TEXT	0 EA
13	COLORIZED COATING, GREEN	0 SF
14	PROPOSED FLEXIBLE BOLLARD	0 EA
15	WHITE PAVEMENT BIKE DETECTOR SYMBOL	0 EA
BE	BEGIN ERADICATION OF EXISTING STRIPING	240 LF
EE	END ERADICATION OF EXISTING STRIPING	5 EA
ES	ERADICATE EXISTING SYMBOL	0 EA
UCHANNEL POST		0 EA
R10-22 (BIKE DETECTION SIGN)		0 EA
R10-04 (STOP HERE ON RED SIGN)		0 EA
R2-5A (EXCEPT BIKES SIGN)		0 EA
R2-5A (NO LEFT TURN)		0 EA
R2-2 (R) (NO RIGHT TURN)		0 EA



CITY OF ALEXANDRIA, VA
COMMONWEALTH AVENUE AND MOUNT VERNON AVENUE: BICYCLE BOX STRIPING PLAN
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STRIPING PLAN



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