CITY OF

ALEXANDRIA

Virginia

Department of Transportation & Environmental Services

301 KING STREET ROOM 3600 ALEXANDRIA, VA 22314

TEL. 703.746.4408 www.alexandriava.gov

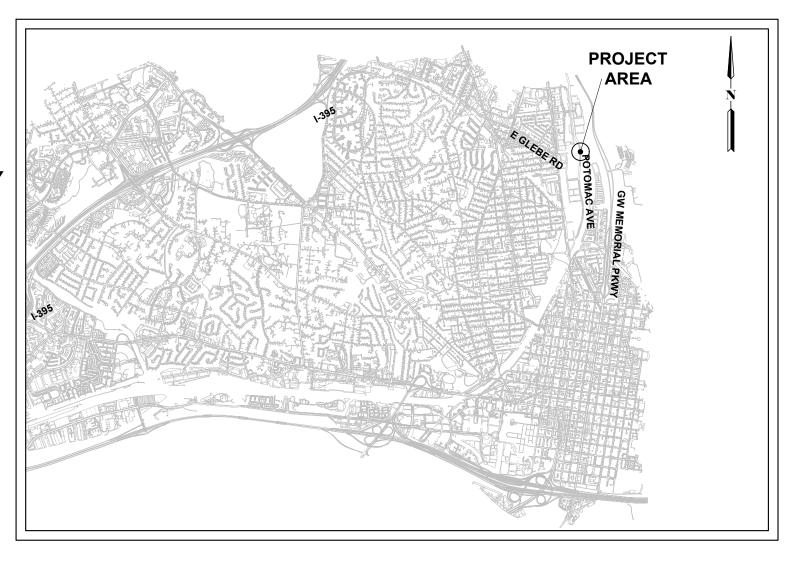
LOCATION MAP

PLANS FOR:

POTOMAC AVENUE & GLEBE ROAD INTERSECTION SAFETY IMPROVEMENTS

MAY 2022 - 60% SUBMITTAL

INDEX OF SHEETS			
SHEET NUMBER	TITLE		
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4	C-2 PAVEMENT MARKING & SIGNAGE PLAN		
5	D-1 ADDITIONAL DETAILS		
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7	D-3 ADDITIONAL DETAILS		



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PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE PLANS
WERE PREPARED OR APPROVED BY
ME, AND THAT I AM A DULY LICENSED
PROFESSIONAL ENGINEER UNDER THE
LAWS OF THE STATE OF VIRGINIA,
LICENSE NO. 0402062860,

EXPIRATION DATE: 11-30-22

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DSGN MMG
DR SRL
CHK ECG
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700LE DESIGN

8484 GEORGIA AVENUE, SUITE 800 SILVER SPRING, MD 20910 PHONE: 301.927.1900 FAX: 301.927.2800 www.tooledesign.com

POTOMAC AVENUE &
GLEBE ROAD
INTERSECTION SAFETY
IMPROVEMENTS
CITY OF ALEXANDRIA, VA

GENERAL
G-1 COVER SHEET

DATE 05/13/2022

DRAWING NO. GSHEET NO. 10.05.7

- 2. BASE MAPPING WAS PREPARED FROM GIS DATA PROVIDED BY THE CITY OF ALEXANDRIA. ALL DIMENSIONS AND EXISTING FEATURES 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 CITY ENGINEER PRIOR TO BEGINNING WORK. PROPOSED STRIPING AND SIGNS MAY BE ADJUSTED AS DIRECTED BY THE CITY 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 CITY ENGINEER ANY OTHER DAMAGE SO CAUSED.

SIGNING AND PAVEMENT MARKINGS

- 1. ALL STRIPING AND SIGN WORK SHALL MEET ALL APPLICABLE VDOT, CITY OF ALEXANDRIA STANDARDS AND SPECIFICATIONS, AND 2009 MANUAL ON UNIFORM TRAFFIC CONTROL (MUTCD) REQUIREMENTS.
- 2. ALL PAVEMENT MARKINGS ARE THERMOPLASTIC UNLESS OTHERWISE NOTED.
- 3. ALL EXISTING PAVEMENT MARKINGS MAY NOT BE SHOWN. ALL EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH PROPOSED PAVEMENT MARKINGS SHALL BE ERADICATED.
- 4. DRIVEWAYS NOT ALL DRIVEWAYS HAVE BEEN LOCATED FOR THIS STRIPING PLAN. FIELD VERIFY DRIVEWAY LOCATIONS BEFORE APPLYING STRIPING
- 5. ALL SIGNS SHALL BE HIGH INTENSITY SHEETING MEETING THE REQUIREMENTS OF AASHTO M268.
- 6. PROPOSED SIGNS SHALL BE INSTALLED SO THAT NO PORTION OF THE SIGN PANEL OVERHANGS ADJACENT ROADWAY PAVEMENT, I.E. SHALL NOT OVERHANG BEYOND THE FACE OF CURB.
- 7. PROPOSED SIGN POSTS SHALL BE LOCATED A MINIMUM OF 2 FEET BEHIND ANY ADJACENT FACE OF CURB UNLESS SPECIFICALLY NOTED OTHERWISE. IF LOCATED IN OR ADJACENT TO SIDEWALKS, A 32" MINIMUM CLEAR AND 48" PREFERRED PASSING SPACE ON EXISTING AND PROPOSED SIDEWALKS SHALL BE MAINTAINED.
- 8. PROPOSED SIGNS AT NEW LOCATIONS SHALL BE INSTALLED SO THEY DO NOT BLOCK THE VISIBILITY OF ANY EXISTING SIGNS OR SIGNALS.
- 9. PROPOSED SIGNS AND POSTS SHALL BE CLEAR OF EXISTING FIRE HYDRANTS, SURFACE UTILITY, AND OVERHEAD UTILITY EQUIPMENT BY A MINIMUM OF 10 FEET.
- 10. FOR NEW POST INSTALLATION, THE CONTRACTOR SHALL VERIFY THERE ARE NO CONFLICTING UNDERGROUND OR OVERHEAD UTILITIES.
- 11. 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 CITY ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.
- 12. 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.
- 13. 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 CITY ENGINEER PRIOR TO INSTALLING THE PROPOSED SIGN. PROPOSED SIGN LOCATIONS CAN BE ADJUSTED AS APPROVED BY THE CITY ENGINEER.

MAINTENANCE OF TRAFFIC

- VIRGINIA MUTCD, VDOT AND CITY OF ALEXANDRIA STANDARD DETAILS AND PROCEDURES FOR MAINTENANCE OF TRAFFIC SHALL BE USED FOR INSTALLATION OF ALL PROJECT FEATURES.
- ALL EXISTING RESIDENTIAL AND COMMERCIAL DRIVEWAYS AND PUBLIC ALLEY ENTRANCES SHALL REMAIN OPEN AT ALL TIMES, UNLESS OTHERWISE DIRECTED BY THE CITY ENGINEER.
- FOR LOCATIONS WHERE THE WORK WILL BE COMPLETE WITHIN ONE WORKING DAY, THE CONTRACTOR SHALL UTILIZE SIGNS, BARRICADES, CHANNELIZING DEVICES, CHANGEABLE MESSAGE BOARDS, AND WARNING LIGHTS AS NECESSARY TO COMPLY WITH VDOT AND MUTCD REQUIREMENTS FOR SHORT-TERM STATIONARY WORK AND MOBILE WORK.
- 4. TEMPORARY "MOBILE" LANE CLOSURES UTILIZING VEHICLES WITH WARNING LIGHTS AND SIGNS PER MUTCD WILL BE ALLOWED FOR LANE CLOSURES WHERE THE WORK WILL BE COMPLETED WITHIN ONE WORKING DAY. FOR LOCATIONS WHERE THE WORK WILL NOT BE COMPLETE WITHIN ONE WORKING DAY OR OCCUR AT NIGHT, THE CONTRACTOR SHALL UTILIZE SIGNS, BARRICADES, CHANNELIZING DEVICES, CHANGEABLE MESSAGE BOARDS, AND WARNING LIGHTS AS NECESSARY TO COMPLY WITH VOOT AND MUTCD REQUIREMENTS FOR INTERMEDIATE-TERM STATIONARY WORK.
- THE SIDEWALKS AND CROSSWALKS MUST REMAIN OPEN AT ALL TIMES UNLESS OTHERWISE DIRECTED BY THE CITY ENGINEER.
- TEMPORARY SIGNS SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF WORK AND REMOVED IMMEDIATELY AFTER COMPLETION OF ACTIVITIES.
- 7. FULL VIEW OF ADVANCE WARNING SIGNS SHALL BE CLEAR OF OBSTRUCTION ON APPROACH TO WORK ZONE.
- 8. THE CONTRACTOR SHALL OBTAIN THE NECESSARY NOISE PERMIT FOR WEEKEND AND NIGHT-TIME WORK
- 9. ALL AFFECTED TRAVEL LANES SHALL MAINTAIN A 10-FOOT MINIMUM WIDTH UNLESS OTHERWISE DIRECTED BY THE CITY ENGINEER.

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H.50000150827 P Potomac Yard Safety Improvements/PRODUCTION/CAD/PL/50827 Friday, May 13, 2022 1:05:23 PM

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EXPIRATION DATE: 11-30-22.

REUSE OF DOCUMENTS

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DSGN MMG
DR SRL
CHK ECG
APVD RLP NO. DATE REVISION BY APVD



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POTOMAC AVENUE &
GLEBE ROAD
INTERSECTION SAFETY
IMPROVEMENTS
CITY OF ALEXANDRIA, VA

G-2 GENERAL NOTES

GENERAL

DATE 05/13/2022

DRAWING NO. G-2

2 OF 7

SHEET NO.

MARKING LEGEND

EXISTING	PROPOSED	
•	0	FLEX POST
O		SIGN AND POST
~~8	«-~8	SHARED LANE MARKING
	4" SWL	4" SOLID WHITE LANE LINE
	4" SYL	4" SOLID YELLOW LANE LINE
	4" DSYCL	4" DOUBLE SOLID YELLOW CENTERLINE
	12" SL	12" STOP LINE OR CROSSWALK LINE
	24" SL	24" STOP LINE OR CROSSWALK LINE
→	→	WHITE PAVEMENT ARROW
		RED-COLORED MMA PAINT
TOW ZONE NO STOPPAGE ANTIME	TOW ZONE NO SOPPHIS ANTIME	SIGN
		FIRE HYDRANT
-		SIGNAL POLE
		LIGHT POLE
		PUSH BUTTON
		TRAFFIC CABINET / BOX
		STORM INLET
	A 4	CONCRETE PAVEMENT
	0	COMBINED PEDESTRIAN-BUS SIGNAL

	POTOMAC AVENUE & GLEBE ROAD - SIGN SCHEDULE						
DWG NO.	SIGN DESIGNATION	SIGN DESCRIPTION	SIZE (INCHES)	SF	QUANTITY	TOTAL SF	NEW SIGN POST (LF)
C-2	R4-11	BIKES MAY USE FULL LANE	30 X 30	6.25	1	6.25	12
C-2	R10-11	NO TURN ON RED	24 X 30	5.0	2	10	24
C-2	R9-5	BIKES USE PED SIGNAL	12 X 18	1.5	3	4.5	12
C-2	CUSTOM SHARED ZONE-1	BIKES YIELD TO PEDS / SHARED ZONE	24 X 18	3.0	2	6	12
C-2	R3-11b	RIGHT LANE BUSES ONLY	30 X 42	8.75	1	8.75	12

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GLEBE ROAD
INTERSECTION SAFETY
IMPROVEMENTS
CITY OF ALEXANDRIA, VA

GENERAL
C-1 PAVEMENT MARKING
LEGEND & SIGN SCHEDULE

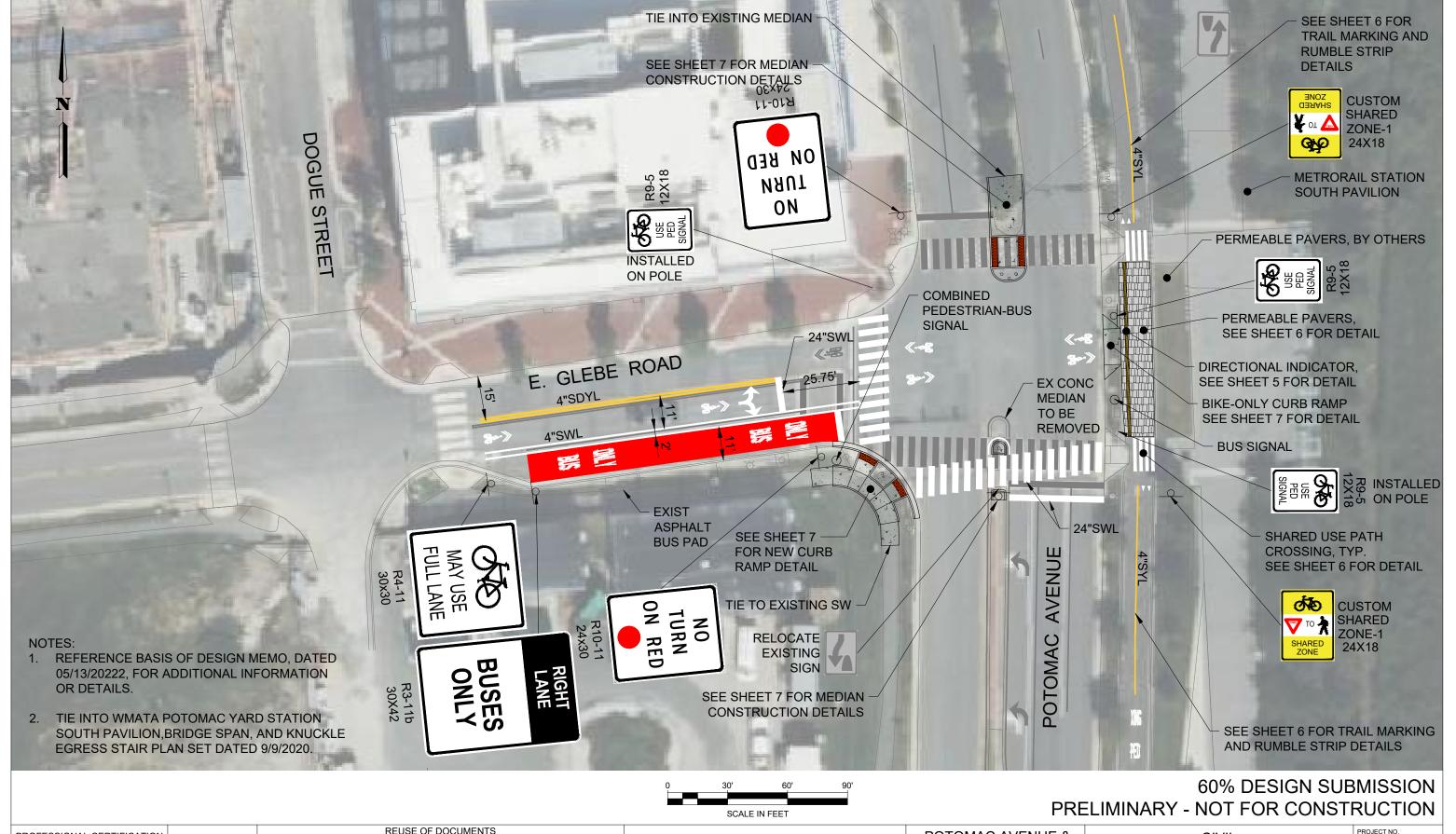
PROJECT NO. 50827

DATE 05/13/2022

DRAWING NO. C-1

SHEET NO. 3 OF 7

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DR	SRL						
СНК	ECG						
APVD	RLP	NO.	DATE	REVISION	BY	APVD	

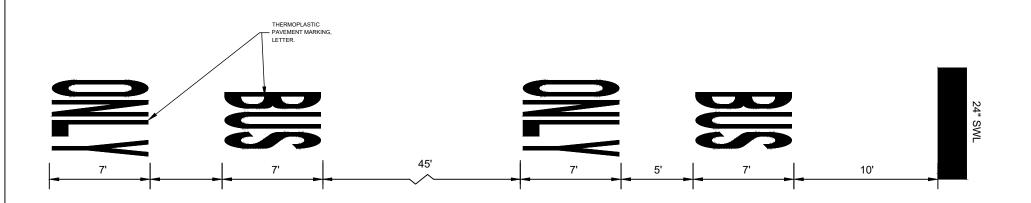
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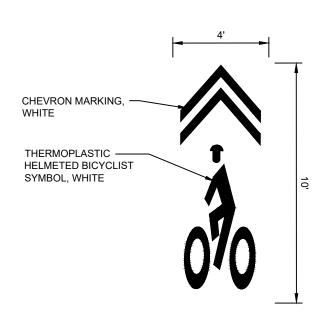
POTOMAC AVENUE & **GLEBE ROAD** INTERSECTION SAFETY **IMPROVEMENTS** CITY OF ALEXANDRIA, VA

CIVIL 05/13/2022 C-2 PAVEMENT MARKING & DRAWING NO. SIGNAGE PLAN

C-2

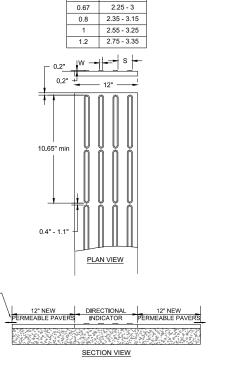
4 OF 7





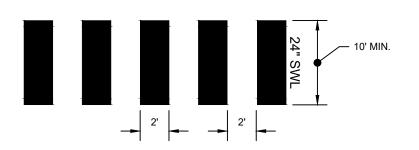
101 BUS-ONLY PAVEMENT MARKING SYMBOL PLAVEMENT SCALE: N.T.S.

102 SHARED LANE MARKING



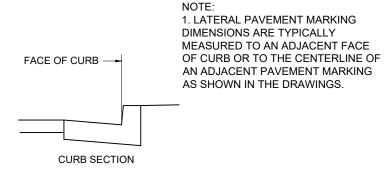
W (in) S (in)

103 DIRECTIONAL INDICATOR DETAIL
SCALE: N.T.S.



NOTE: CROSSWALK MARKINGS PERPENDICULAR TO VEHICLE WHEEL PATH

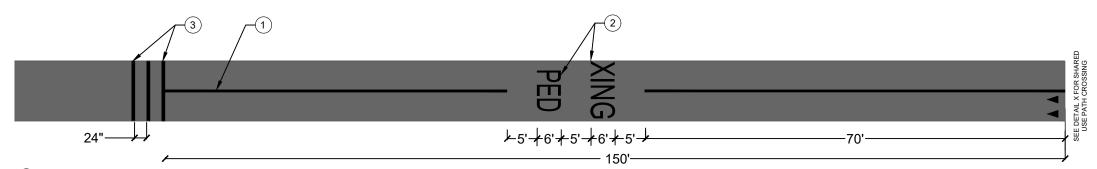
104 CROSSWALK DETAIL



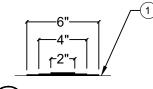
105 TYPICAL LATERAL STRIPING DIMENSIONS

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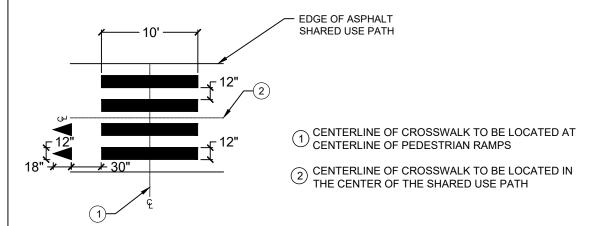
- 1) PAINTED STRIPING (SOLID)
- (2) PAINTED "ROAD XING" PAVEMENT MARKING
- (3) (3) RUMBLE STRIPS 30" ON CENTER
- 1 TRAIL PAVEMENT MARKING SYMBOL PLACEMENT SCALE N.T.S.



WHITE THERMOPLASTIC PAVEMENT MARKING (EACH MARKING LAYER SHALL BE 80 TO 95 MILS EACH IN ORDER TO ACHIEVE AN OVERALL RUMBLE STRIP THICKNESS OF APPROXIMATELY 1/4". RERER TO PLAN FOR SPACING LAYOUT AND LOCATION.

2 RUMBLE STRIP DETAIL
SCALE N.T.S.

106 TRAIL MARKING & RUMBLE STRIP DETAIL



DRAINAGE CELL

HAND TIGHT JOINTS

3 THICKNESS 4 TY X 9"
CONCRETE PAVER
HANOVER MATRIX M1737
GROUND TUDOR FINISH
with SAND SWEPT JOINTS

1" - 2" THICK BEDDING
LAYER/DRAINAGE CELL FILL
(21b AGGREGATE)

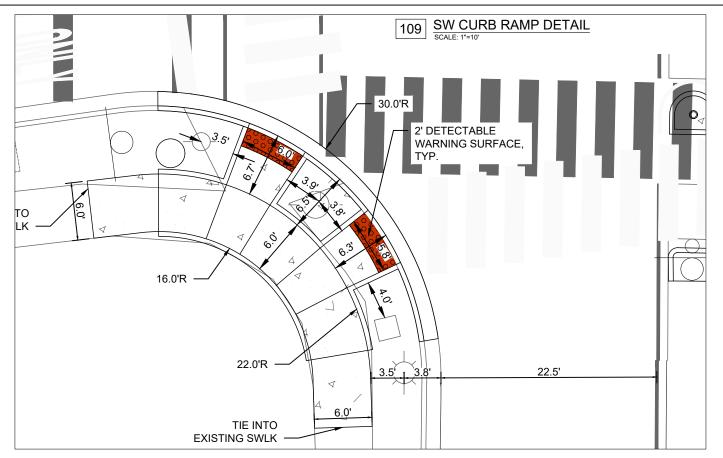
12" THICK PERMEABLE BASE
AND/OR STORAGE LAYER

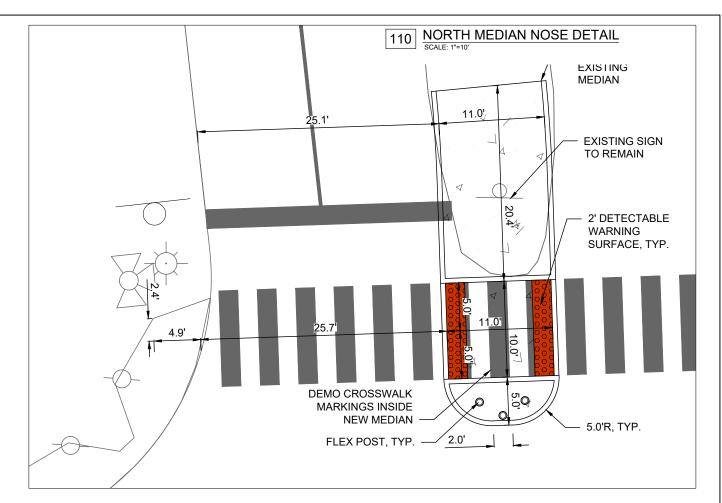
COMPACTED 95% SUB-BASE

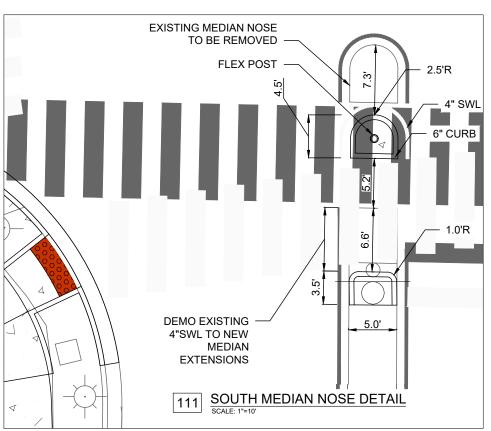
107 SHARED USE PATH CROSSING DETAIL

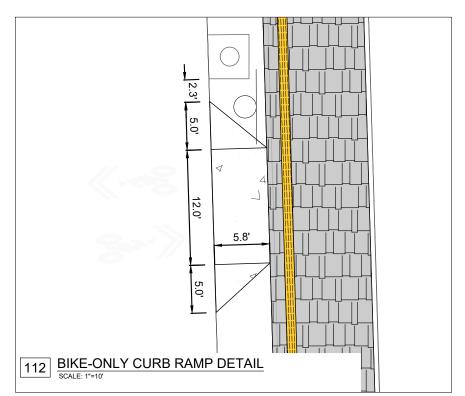
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7 OF 7

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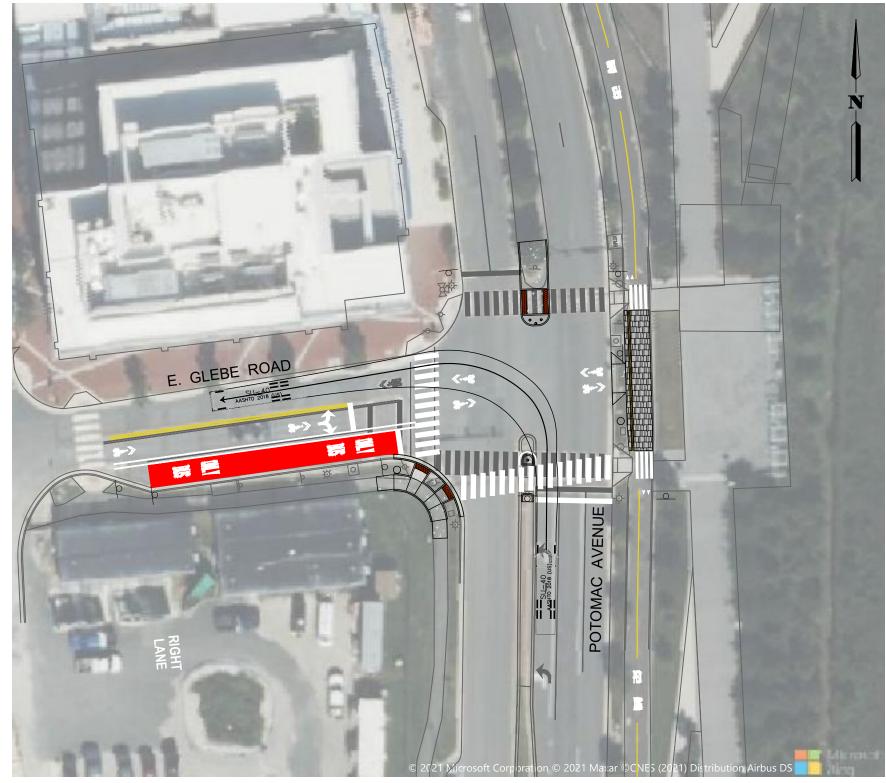
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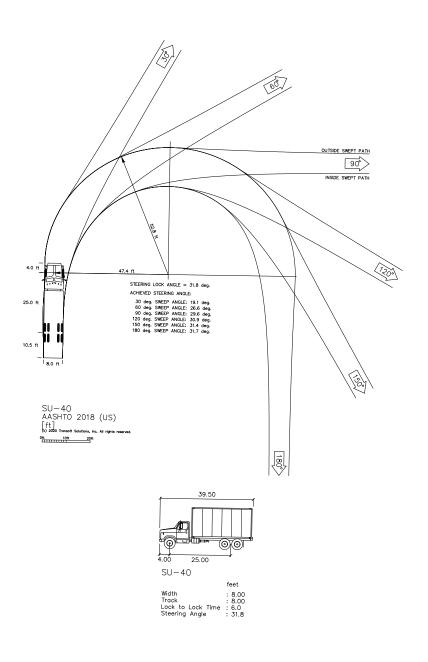
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POTOMAC AVENUE & **GLEBE ROAD** INTERSECTION SAFETY **IMPROVEMENTS** CITY OF ALEXANDRIA, VA

CIVIL	PROJECT NO. 50827
D 0 ADDITIONAL DETAIL 0	DATE 05/13/2022
D-3 ADDITIONAL DETAILS	DRAWING NO. D-3
	SHEET NO.







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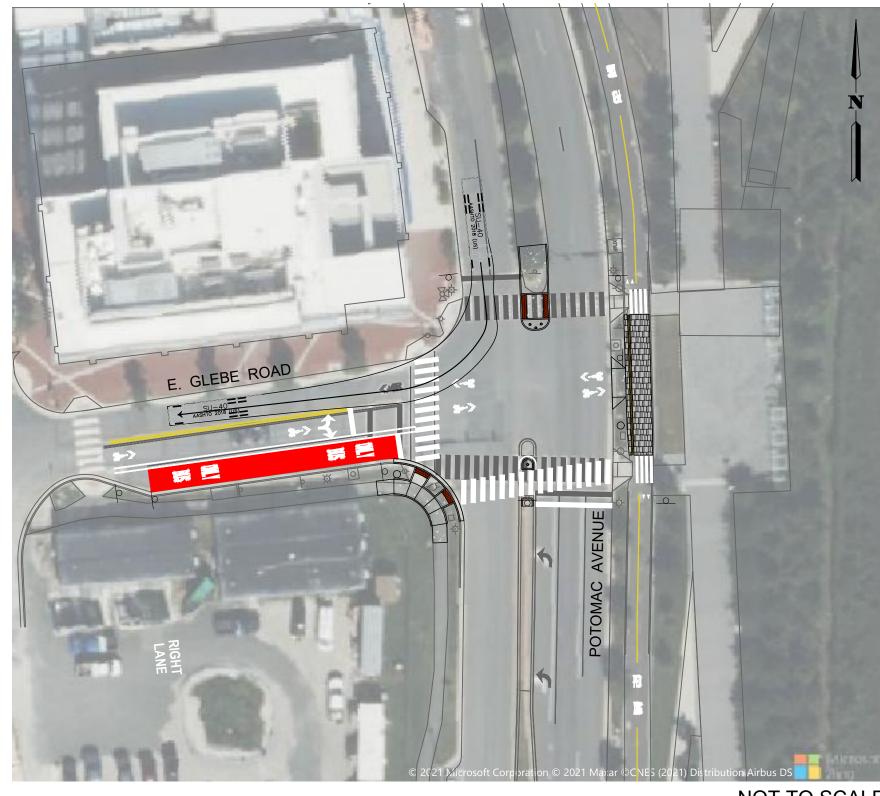
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POTOMAC AVENUE & **GLEBE ROAD** INTERSECTION SAFETY **IMPROVEMENTS** CITY OF ALEXANDRIA, VA

AUTOTURN EXHIBIT SU-40

PROJECT NO.	50827
DATE 05/1	13/2022
DRAWING NO.	EX-1
SHEET NO.	1



90° STEERING LOCK ANGLE = 31.8 deg.
ACHIEVED STEERING ANGLE:
30 deg. SWEEP ANGLE: 19.1 deg.
60 deg. SWEEP ANGLE: 26.6 deg.
90 deg. SWEEP ANGLE: 26.6 deg.
120 deg. SWEEP ANGLE: 30.9 deg.
150 deg. SWEEP ANGLE: 31.4 deg.
180 deg. SWEEP ANGLE: 31.7 deg. SU-40 AASHTO 2018 (US) [ft] [o) 2020 Transoft Solutions, Inc. All rights res

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0:18	PROFESSIONAL CERTIFICATION
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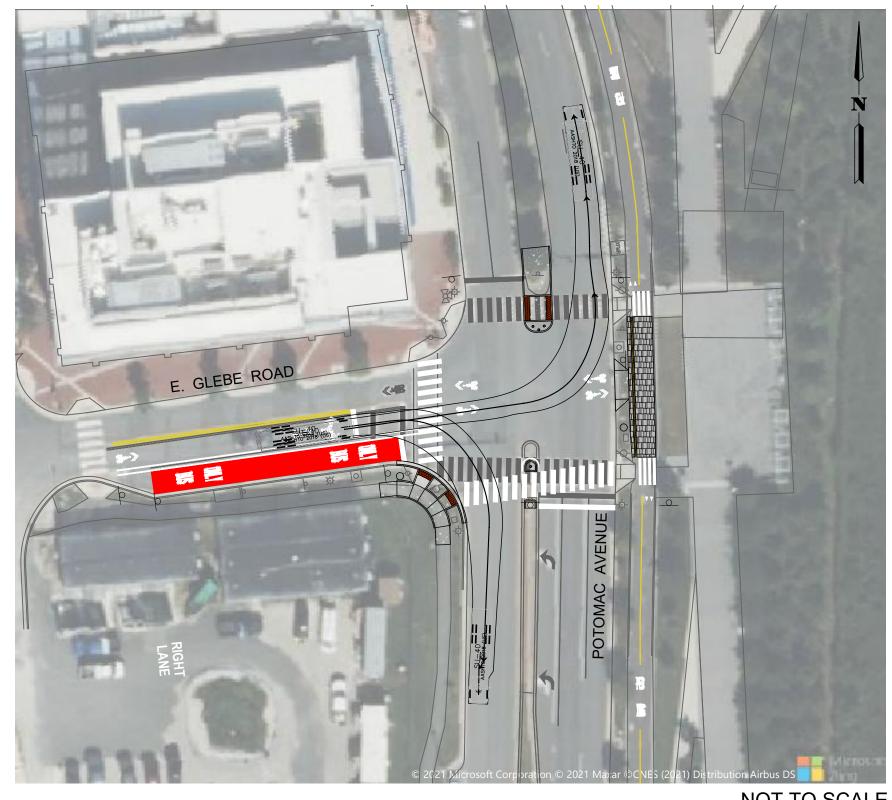
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	REUSE OF DOCUMENTS						
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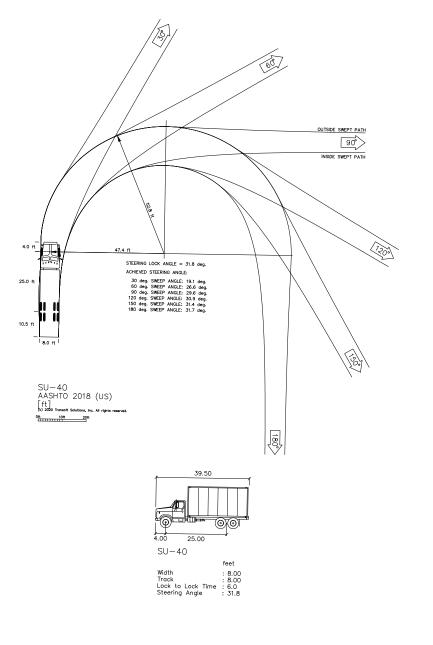


POTOMAC AVENUE & **GLEBE ROAD** INTERSECTION SAFETY **IMPROVEMENTS** CITY OF ALEXANDRIA, VA

AUTOTURN EXHIBIT SU-40

PROJECT NO.	50827
DATE 05/	13/2022
DRAWING NO.	EX-2
SHEET NO.	2





NOT TO SCALE

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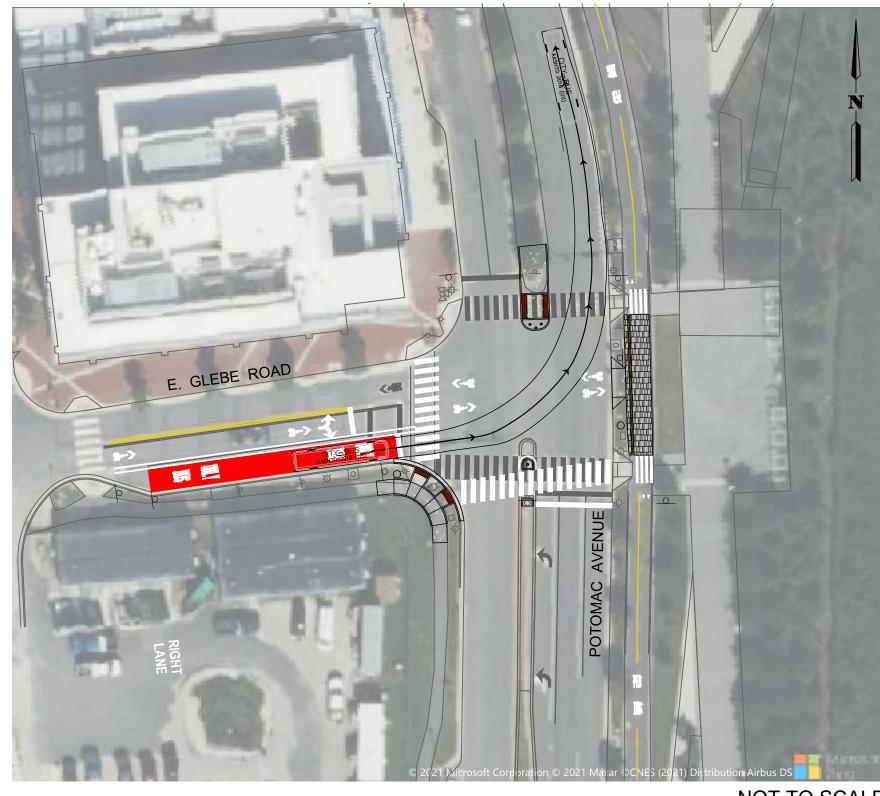
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	DR	SRL							
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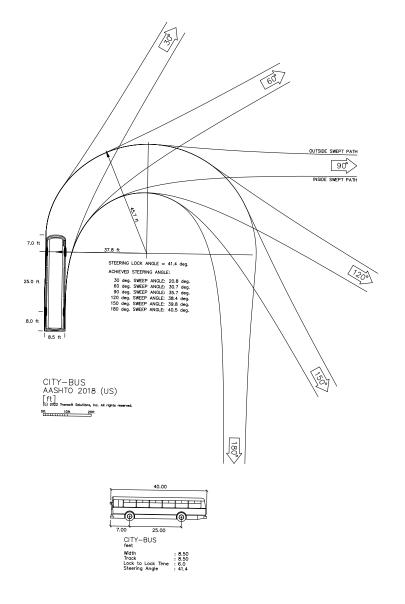
DESIGN FAX: 301.927.2800 www.tooledesign.com

POTOMAC AVENUE & **GLEBE ROAD** INTERSECTION SAFETY **IMPROVEMENTS** CITY OF ALEXANDRIA, VA

AUTOTURN EXHIBIT SU-40

05/13/2022 DRAWING NO. EX-3 SHEET NO.





NOT TO SCALE

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72	WERE PREPARED OR APPROVED BY
7 2	
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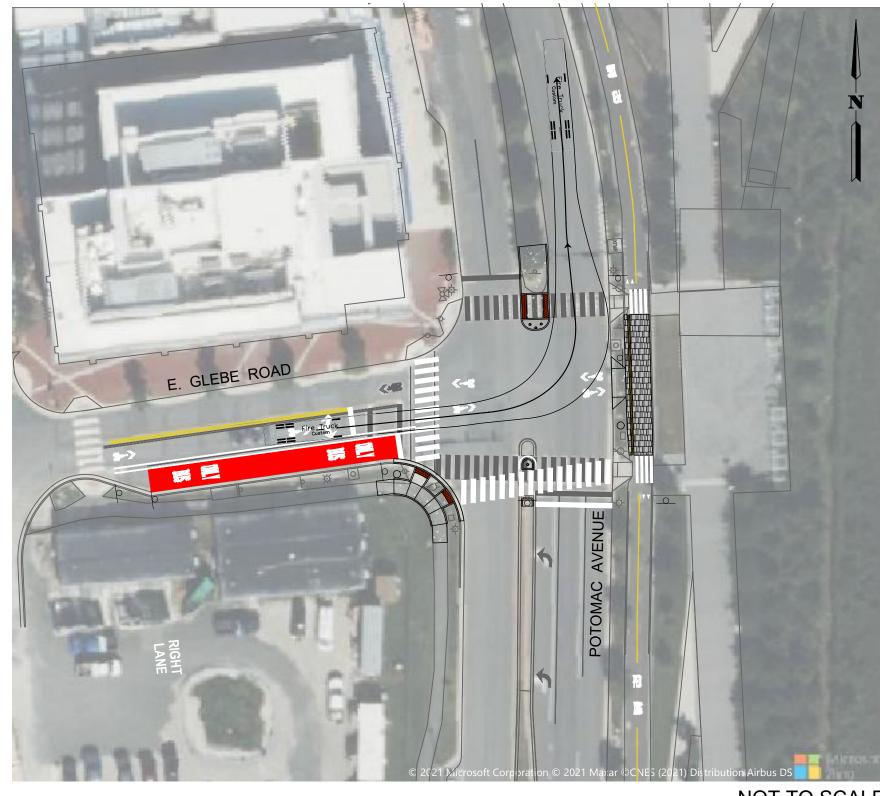
Ī		REUSE OF DOCUMENTS					
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	DSGN	MMG					
	DR	SRL					
	CHK	ECG					
	APVD	RLP	NO.	DATE	REVISION	BY	APVD

DESIGN FAX: 301.927.2800 www.tooledesign.com

POTOMAC AVENUE & **GLEBE ROAD** INTERSECTION SAFETY **IMPROVEMENTS** CITY OF ALEXANDRIA, VA

AUTOTURN EXHIBIT CITY-BUS

PROJECT NO. 50827
DATE 05/13/2022
DRAWING NO. EX-4
SHEET NO.



90° STEERING LOCK ANGLE = 33.3 deg. ACHIEVED STEERING ANGLE: 19.4 deg. 50 deg. SWEEP ANGLE: 19.4 deg. 60 deg. SWEEP ANGLE: 27.3 deg. 90 deg. SWEEP ANGLE: 30.7 deg. 120 deg. SWEEP ANGLE: 32.2 deg. 180 deg. SWEEP ANGLE: 33.1 deg. 180 deg. SWEEP ANGLE: 33.1 deg. Fire Truck Custom [ft] (c) 2022 Transoft Solutions.

NOT TO SCALE

60% DESIGN SUBMISSION PRELIMINARY - NOT FOR CONSTRUCTION

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE PLANS
WERE PREPARED OR APPROVED BY
ME, AND THAT I AM A DULY LICENSED
PROFESSIONAL ENGINEER UNDER THE
LAWS OF THE STATE OF VIRGINIA,
LICENSE NO. 0402062860,
EXPIRATION DATE: 11-30-22.

	REUSE OF DOCUMENTS					
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DSGN	MMG					
DR	SRL					
CHK	ECG					
APVD	RLP	NO.	DATE	REVISION	BY	APVD

TOOLE

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POTOMAC AVENUE &
GLEBE ROAD
INTERSECTION SAFETY
IMPROVEMENTS
CITY OF ALEXANDRIA, VA

AUTOTURN EXHIBIT FIRE TRUCK

PROJECT NO.	50827
DATE	
05/	13/2022
DRAWING NO.	
	EX-5
SHEET NO.	
	5