



**ENGINEER
CONSULTANT
RK&K, LLP**

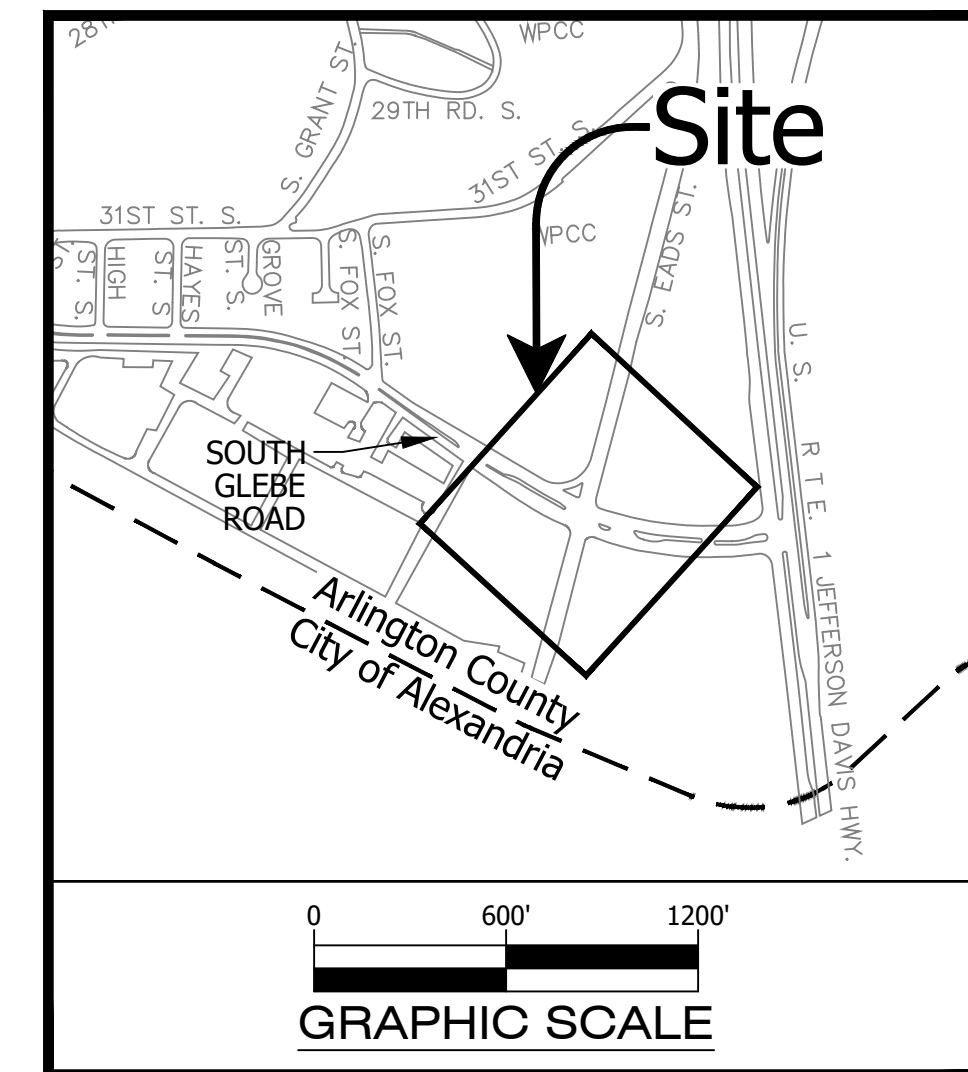
RK&K
12600 Fair Lakes Circle, Suite 300
Fairfax, VA 22033
Phone: 703.246.0028

**OWNER
DEPARTMENT OF
ENVIRONMENTAL SERVICES**

SIGNAL & ITS
TRANSPORTATION ENGINEERING &
OPERATIONS BUREAU
2100 CLARENDON BOULEVARD, SUITE 900
ARLINGTON, VA 22201
PHONE: 703.228.3344 FAX: 703.228.3719
WWW.ARLINGTONVA.US

**CONTRACTOR
TO BE DETERMINED**

Location Maps Scale: 1"=600' Vicinity



CONSTRUCTION DRAWINGS FOR: SOUTH GLEBE ROAD INTERSECTION IMPROVEMENTS AT SOUTH EADS STREET

PROJECT NUMBER: TR08

GENERAL NOTES:

GENERAL CONSTRUCTION NOTES

- ALL CONSTRUCTION WORK FOR THIS PROJECT SHALL CONFORM TO THE ARLINGTON COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES, CONSTRUCTION STANDARDS, AND SPECIFICATIONS. WHERE APPLICABLE, IT SHALL ALSO CONFORM TO THE VIRGINIA DEPARTMENT OF TRANSPORTATION (VDOT) ROAD AND BRIDGE STANDARDS AND SPECIFICATIONS. THE LATEST EDITION OF EACH RELEVANT MANUAL SHALL BE USED.
- ALL CONSTRUCTION AND WORK ACTIVITIES SHALL COMPLY WITH THE LATEST EDITION OF THE VIRGINIA WORK AREA PROTECTION MANUAL AND ALL OTHER RELEVANT WORK SAFETY REQUIREMENTS.
- THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE PROJECT OFFICER OF ANY DISCREPANCIES BETWEEN ACTUAL FIELD CONDITIONS AND THE APPROVED PLANS.
- THE CONTRACTOR SHALL CONTACT "MISS UTILITY" AT 811 FOR MARKING THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES (i.e. WATER, SEWER, GAS, TELEPHONE, ELECTRIC, AND CABLE TV) AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION OR CONSTRUCTION. THE CONTRACTOR IS REQUIRED TO IDENTIFY AND PROTECT ALL OTHER UTILITY LINES FOUND IN THE WORK SITE AREA BELONGING TO OTHER OWNERS THAT ARE NOT MEMBERS OF "MISS UTILITY." PRIVATE WATER AND/OR SEWER LATERALS WILL NOT BE MARKED BY MISS UTILITY OR THE COUNTY. THE CONTRACTOR SHALL LOCATE AND PROTECT THESE SERVICES DURING CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR LAYING OUT THE WORK AND SHALL RETAIN A PROFESSIONAL LAND SURVEYOR LICENSED IN THE COMMONWEALTH OF VIRGINIA TO PROVIDE ALL NECESSARY CONSTRUCTION LAYOUTS AND ESTABLISH ALL CONTROL LINES, GRADES, AND ELEVATIONS DURING CONSTRUCTION. THE CONTRACTOR SHALL SUBMIT A COPY OF ALL CUT SHEETS FOR REVIEW, PER THE SPECIFICATIONS. THE COST OF ALL NECESSARY SURVEYING SERVICES SHALL BE CONSIDERED INCIDENTAL TO THE WORK, AND THE COST SHALL BE INCORPORATED INTO THE COSTS FOR RELEVANT ITEMS UNLESS OTHERWISE SPECIFIED.
- THE LOCATION OF ALL UTILITIES SHOWN ON THESE PLANS ARE FOR INFORMATION ONLY AND SHALL BE CONSIDERED TO BE APPROXIMATE. WHEN CONSTRUCTION ACTIVITY OCCURS WITHIN PROXIMITY TO EXISTING UTILITIES, THE TRENCHES SHALL BE OPENED A SUFFICIENT DISTANCE AHEAD OF THE WORK, OR TEST PITS SHALL BE MADE BY THE CONTRACTOR, TO VERIFY THE EXACT LOCATION AND INVERTS OF THE UTILITY AND ALLOW FOR POSSIBLE CHANGES IN THE LINE OR GRADE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE EXISTING UTILITIES OR THE RELATED STRUCTURES. ALL EXISTING UTILITY SYSTEMS SHALL BE PROTECTED TO PREVENT DAMAGE DURING THE CONTRACTOR'S OPERATIONS. ANY SYSTEM THAT IS DAMAGED SHALL BE PROMPTLY REPAIRED AT NO COST TO THE OWNER.
- EXISTING MANHOLE FRAMES, COVERS, VALVE BOXES, AND OTHER APPURTENANCES SHALL BE ADJUSTED TO THE FINAL GRADE OR REPLACED, AS NECESSARY. UNLESS OTHERWISE SPECIFIED, THE COST FOR THIS SHALL BE CONSIDERED INCIDENTAL TO THE WORK AND SHALL BE INCORPORATED INTO THE COSTS FOR RELEVANT ITEMS.
- THE CONTRACTOR SHALL PROVIDE ADA-COMPLIANT ACCESS THROUGH OR AROUND THE SITE AT ALL TIMES AND SHALL ENSURE THE SAFETY OF ALL THOSE PASSING THROUGH OR ADJACENT TO THE SITE.
- THE CONTRACTOR SHALL ENSURE ALL UTILITY TOPS WITHIN THE PEDESTRIAN WALKWAY SHALL BE ADA-COMPLIANT AND SLIP RESISTANT.

STORMWATER AND ENVIRONMENTAL PROTECTION

- THE CONTRACTOR SHALL CONFINE ALL ACTIVITIES AT THE SITE ASSOCIATED WITH CONSTRUCTION ACTIVITIES, TO INCLUDE STORAGE OF EQUIPMENT AND/OR MATERIALS, ACCESS TO THE WORK, FORMWORK, ETC., TO WITHIN THE DESIGNATED LIMITS OF WORK (LOW).
- ANY WORK WITHIN A RESOURCE PROTECTION AREA (RPA) SHALL COMPLY WITH THE REQUIREMENTS OF CHAPTER 61 OF THE COUNTY CODE (THE CHESAPEAKE BAY PRESERVATION ORDINANCE).
- THE ESTIMATED STORMWATER MANAGEMENT RELATED LAND DISTURBANCE AREA FOR THIS PROJECT IS LESS THAN 2,500 SQUARE FEET. THUS ARLINGTON COUNTY'S LAND DISTURBANCE ACTIVITY/STORMWATER (LDASWM) PERMIT REQUIREMENTS ARE NOT APPLICABLE TO THIS PROJECT.

TREE PROTECTION

- TREES SHALL BE PROTECTED PER THE REQUIREMENTS OF SECTION 02100 - CLEARING AND GRUBBING.

TRAFFIC CONTROL

- CONTRACTOR SHALL NOTIFY THE PROJECT OFFICER AT LEAST THREE (3) WORKING DAYS PRIOR TO DISTURBING ANY EXISTING, OR INSTALLING ANY NEW, TRAFFIC SIGNS, SIGNALS, OR OTHER TRAFFIC CONTROL DEVICES.
- THE CONTRACTOR SHALL PRE-MARK THE LAYOUT OF ANY PERMANENT TRAFFIC CONTROL STRIPING, INDICATING THE PROPOSED LOCATION AND TYPE OF MARKING TO BE INSTALLED. THE PRE-MARKING MAY CONSIST OF TYPE D TAPE, CHALK, OR LUMBER CRAYONS. THE CONTRACTOR SHALL ALLOW THREE (3) WORKING DAYS FOR THE INSPECTION AND APPROVAL OF THE PRE-MARKINGS PRIOR TO PLACING THE PERMANENT MARKINGS.
- THE CONTRACTOR SHALL SUBMIT ANY REQUESTS FOR TEMPORARY "NO PARKING" RESTRICTIONS TO THE PROJECT OFFICER AT LEAST FOUR (4) WORKING DAYS PRIOR TO THE DESIRED ONSET OF RESTRICTIONS.
- THE CONTRACTOR SHALL COORDINATE WITH THE DES-TRANSIT BUREAU AT 703-228-3049 AT LEAST FOUR (4) WEEKS PRIOR TO COMMENCEMENT OF WORK WHEN TRANSIT IS AFFECTED OR IF THERE ARE ANY IMPACTS TO TRANSIT STOPS OR ROUTES. NOTE: ALL TEMPORARY AND FINAL BUS TRAVEL LANES MUST BE MINIMUM 11' WIDE.
- WHEN CONDITIONS WARRANT DUE TO TRAFFIC VOLUMES, PATTERNS, OR SPECIAL EVENTS, THE COUNTY MAY SUSPEND OR OTHERWISE DIRECT THE CONTRACTOR'S ACTIVITIES TO PROTECT THE PUBLIC AND/OR THE COUNTY'S TRANSPORTATION NETWORK.

WATER DISTRIBUTION, STORM, AND SANITARY SEWER SYSTEMS

- UNLESS OTHERWISE DIRECTED, CONTRACTORS ARE EXPRESSLY PROHIBITED FROM OPERATING ANY WATER VALVES OR APPURTENANCES. CONTRACTORS SHALL SUBMIT ALL REQUESTS FOR VALVE OPERATIONS TO THE PROJECT OFFICER AT LEAST THREE (3) WORKING DAYS IN ADVANCE OF THE REQUIRED OPERATION.
- IN THE EVENT OF A WATER OR SEWER EMERGENCY, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE COUNTY'S WATER CONTROL CENTER AT 703-228-5555 AND THE PROJECT OFFICER.
- LOCATIONS OF SEWER LATERALS, IF SHOWN, ARE APPROXIMATE AND BASED SOLELY ON AVAILABLE RECORDS.
- SANITARY SEWER LATERALS ARE PRIVATELY OWNED AND MAINTAINED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATION OF ALL EXISTING LATERALS WITHIN THE LIMITS OF CONSTRUCTION. APPROPRIATE PERMITS AND INSPECTIONS FOR WORK ON ANY LATERALS MUST BE OBTAINED FROM INSPECTION SERVICES. ANY LATERALS ABANDONED WITH THE PROJECT WILL BE CAPPED AT THE SEWER MAIN.

MAINTENANCE

- ARLINGTON COUNTY SHALL HAVE MAINTENANCE RESPONSIBILITY FOR ALL ROADWAY INFRASTRUCTURE (SIDEWALK, ROAD ASPHALT, DRAINAGE, CURB/CURB & GUTTER, ETC.) WITHIN COUNTY RIGHT-OF-WAY. THE COUNTY WILL ALSO MAINTAIN ALL TRAFFIC SIGNAL INFRASTRUCTURE INDEPENDENT OF VDOT AND COUNTY RIGHT-OF-WAY BOUNDARIES. VDOT SHALL HAVE MAINTENANCE RESPONSIBILITY FOR ALL ROADWAY INFRASTRUCTURE (SIDEWALK, ROAD ASPHALT, DRAINAGE, CURB/CURB & GUTTER, ETC.), OUTSIDE OF THE TRAFFIC SIGNAL, WITHIN VDOT RIGHT-OF-WAY. RAMP OR SIDEWALKS THAT ARE PARTIALLY WITHIN THE VDOT RIGHT-OF-WAY AND PARTIALLY WITHIN THE ARLINGTON COUNTY RIGHT-OF-WAY MUST BE MAINTAINED BY THE ARLINGTON COUNTY. SEE SHEET 3/EXISTING CONDITIONS FOR LIMITS OF VDOT AND ARLINGTON COUNTY RIGHT-OF-WAY.

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AADT

South Glebe Road:
23,000 VEHICLES PER DAY (2019)
DHW: 1,795 VPH (2019) / 2,835 VPH (2042)
T %: 2%

South Eads Street:
9,500 VEHICLES PER DAY (2019)
A: 875 VPH (2018) / 1,380 VPH (2042)
T %: 2%

Source:
"2019 VDOT Daily Traffic Volume Estimates - Jurisdiction Report 00 - Arlington County/City of Alexandria"

STREET CLASSIFICATION

South Glebe Rd: Principal Arterial
South Eads St: Minor Arterial

POSTED SPEED

South Glebe Road: 35 MPH Posted Speed
South Eads Street: 30 MPH Posted Speed



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Seal



APPROVALS DATE

<i>Andrew S. Moy</i>	08/19/2022
TRAFFIC SIGNAL ENGINEER	
<i>John Nabeo</i>	08/24/2022
TRAFFIC ENGINEERING MANAGER	
<i>John Nabeo</i>	9/1/22
WATER, SEWER, STREETS BUREAU CHIEF	
<i>John Nabeo</i>	08/26/2022
TE&O BUREAU CHIEF	
<i>Donna M. Leach</i>	08/29/2022
TRANSPORTATION DIRECTOR	

TRANSPORTATION DIRECTOR

Revisions Date

COVER SHEET &
GENERAL NOTES
S. GLEBE ROAD
INTERSECTION IMPROVEMENTS
AT S. EADS STREET

DESIGNED: JMK
DRAWN: JMK
CHECKED: ASM
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PLOTTED: June 06, 2022
PLOTTED BY: kmita

SCALE: As Noted

SHEET 1 of 13A

DESIGNED BY: RUMMEL, KLEPPER, & KAHL, LLP, ANDREW MOY, PE (703-246-0028)
SURVEYED BY: ARLINGTON COUNTY GOV., DES. DATE: JULY 2020

PROJECT MANAGER: ANDREW HAYES, PE, PTOE (571-243-1120) DATE: JULY 2020
SURVEYED BY: ARLINGTON COUNTY GOV., DES.

LINETYPE LEGEND

FEATURE	EXISTING	PROPOSED
BUILDING		
CENTERLINE / BASELINE		
COMMUNICATIONS CABLE		
CONTOURS		
CRITICAL ROOT ZONE		
EASEMENT		
ELECTRIC (UNDERGROUND)		
FENCE (MATERIAL NOTED)		
FLOOD HAZARD LINE (FLOODPLAIN & FLOODWAY)		
FIBER OPTIC		
GAS LINE		
X" GAS LINE (SIZE INCLUDED IF AVAILABLE)		
GUARDRAIL		
HARDSCAPE FEATURE (MATERIAL NOTED)		
LIMITS OF DISTURBANCE		
LIMITS OF WORK		
OVERHEAD WIRES		
PROPERTY LINE		
RESOURCE PROTECTION AREA (RPA)		
RIGHT-OF-WAY LINE		
ROOT PRUNING		
SANITARY SEWER		
X" SANITARY SEWER (SIZE INCLUDED IF AVAILABLE)		
SILT FENCE		
STORM (SIZE NOTED)		
STREAM		
STREET LIGHT CONDUIT		
TELEPHONE (UNDERGROUND)		
TREE LINE		
TREE PROTECTION FENCE		
WALL		
WATER		
X" WATER (SIZE INCLUDED IF AVAILABLE)		

SYMBOL LEGEND

EXISTING	PROPOSED
EX BENCHMARK	PROP FIRE HYDRANT
EX CABLE PEDESTAL	PROP GAS VALVE
EX ELECTRIC BOX	PROP LIGHT POLE
EX FIRE HYDRANT	PROP PAY STATION
EX GAS VALVE	PROP SANITARY MANHOLE
EX GROUND LIGHT	PROP STORM CATCH BASIN (TO SCALE)
EX GUY WIRES	PROP STORM MANHOLE
EX IRON PIPE OR PIN	PROP STORM MANHOLE BASE
EX LIGHT POLE	PROP STORM ENDWALL
EX MAILBOX	PROP TRAFFIC SIGN
EX MONUMENT	PROP TRASH CAN
EX PARKING METER	PROPOSED TREE REMOVAL
EX PAY STATION	PROP UTILITY POLE
EX SANITARY MANHOLE	PROP WATER MANHOLE
EX STORM BASIN	PROP WATER METER
EX STORM MANHOLE	PROP WATER VALVE
EX TELEPHONE PEDESTAL	PROP YARD INLET (TO SCALE)
EX TRAFFIC CONTROL BOX	CONSTRUCTION NOTES (LEADER TO AREA AFFECTED)
EX TRAFFIC SIGN	CURVE NUMBER (SEE CURVE TABLE)
EX TRASH CAN	LINE NUMBER (SEE LINE TABLE)
EX TRAVERSE	NORTH ARROW
EX TREES, WOODED AREA	
EX UTILITY MANHOLE (TYPE INDICATED ELECTRIC, TELE, ETC)	
EX UTILITY POLE	
EX WATER MANHOLE	
EX WATER METER	
EX WATER VALVE	
EX YARD INLET	
EX TEST HOLE	

HATCH LEGEND

ASPHALT - MILL & OVERLAY	
ASPHALT - FULL DEPTH	
CONCRETE	
DEMOLISH EXISTING CONCRETE	
DEMOLISH EXISTING ASPHALT	

LABEL LEGEND

EXISTING	PROPOSED
EX SAN STRUC NO. EXISTING SANITARY STRUCTURE NUMBER	PROP SAN SEW STRUC NO. PROPOSED SANITARY SEWER STRUCTURE NUMBER
EX STRM SEW STRUC NO. EXISTING STORM SEWER STRUCTURE NUMBER	PROP STRM SEW STRUC NO. PROPOSED STORM SEWER STRUCTURE NUMBER



DEPARTMENT OF ENVIRONMENTAL SERVICES

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APPROVALS DATE

	08/19/2022
TRAFFIC SIGNAL ENGINEER	
	08/24/2022
TRAFFIC ENGINEERING MANAGER	
	9/1/22
WATER, SEWER, STREETS BUREAU CHIEF	
	08/26/2022
TE&O BUREAU CHIEF	
	08/29/2022
TRANSPORTATION DIRECTOR	

Revisions Date

LEGEND, NOTES, AND ST'D DETAIL SHEETS

S. GLEBE ROAD INTERSECTION IMPROVEMENTS AT S. EADS STREET

T808

DESIGNED: JMK
DRAWN: JMK
CHECKED: ASM
MISS UTILITY TRANSMITTAL #: xxx
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PLOTTED BY: kmita

SCALE: N.T.S.

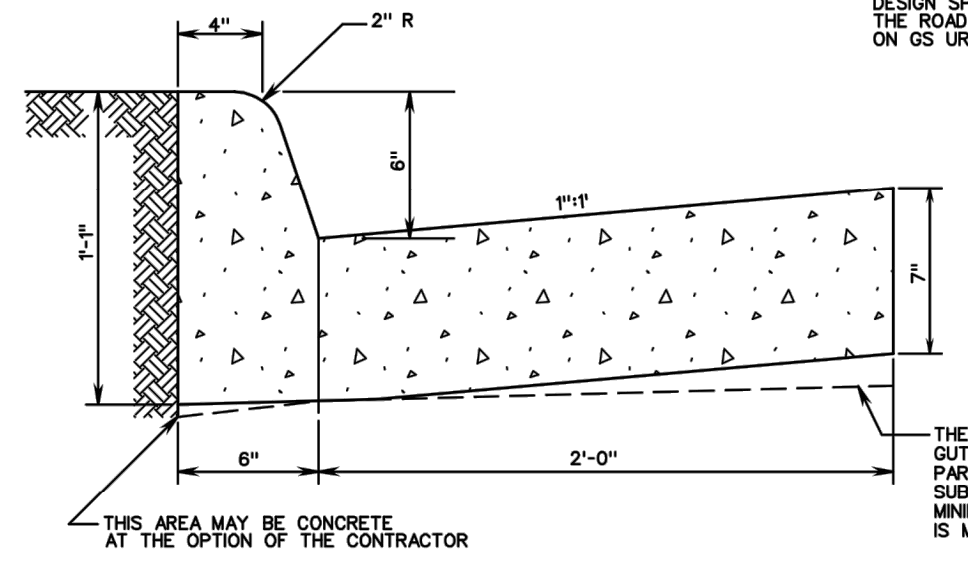
DESIGNED BY: RUMMEL, KLEPPER, & KAHL, LLP, ANDREW MOY, PE (703-246-0028)
 SURVEYED BY: ARRLINGTON COUNTY GOV., DES. DATE: JULY 2020

PROJECT MANAGER: ANDREW HAYES, PE, PTDE (571-243-1120)
 SURVEYED BY: ARRLINGTON COUNTY GOV., DES. DATE: JULY 2020

CG-6

NOTES:

1. THIS ITEM MAY BE PRECAST OR CAST IN PLACE.
2. CONCRETE TO BE CLASS A3 IF CAST IN PLACE, 4000 PSI IF PRECAST.
3. COMBINATION CURB & GUTTER HAVING A RADIUS OF 300 FEET OR LESS (ALONG FACE OF CURB) SHALL BE PAD FOR AS RADIAL COMBINATION CURB & GUTTER.
4. FOR USE WITH STABILIZED OPEN-GRADED DRAINAGE LAYER, THE BOTTOM OF THE CURB & GUTTER SHALL BE CONSTRUCTED PARALLEL TO THE SLOPE OF SUBBASE COURSES AND TO THE DEPTH OF THE PAVEMENT.
5. ALLOWABLE CRITERIA FOR THE USE OF CG-6 IS BASED ON ROADWAY CLASSIFICATION AND DESIGN SPEED AS SHOWN IN APPENDIX A OF THE ROAD DESIGN MANUAL IN THE SECTION ON GS URBAN STANDARDS.

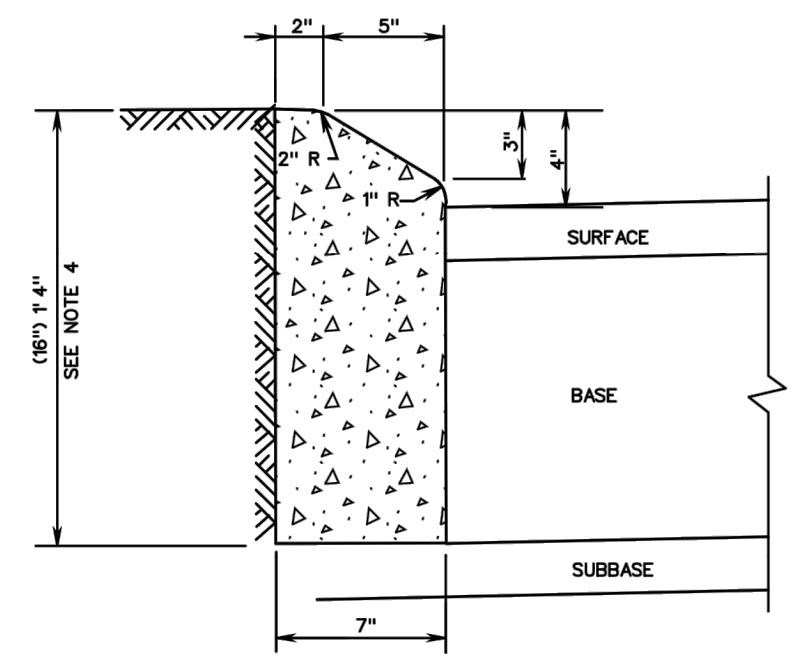


SPECIFICATION REFERENCE	105 502	COMBINATION 6" CURB AND GUTTER	ROAD AND BRIDGE STANDARDS	REVISION DATE	SHEET 1 OF 1
		VIRGINIA DEPARTMENT OF TRANSPORTATION	2010.3		

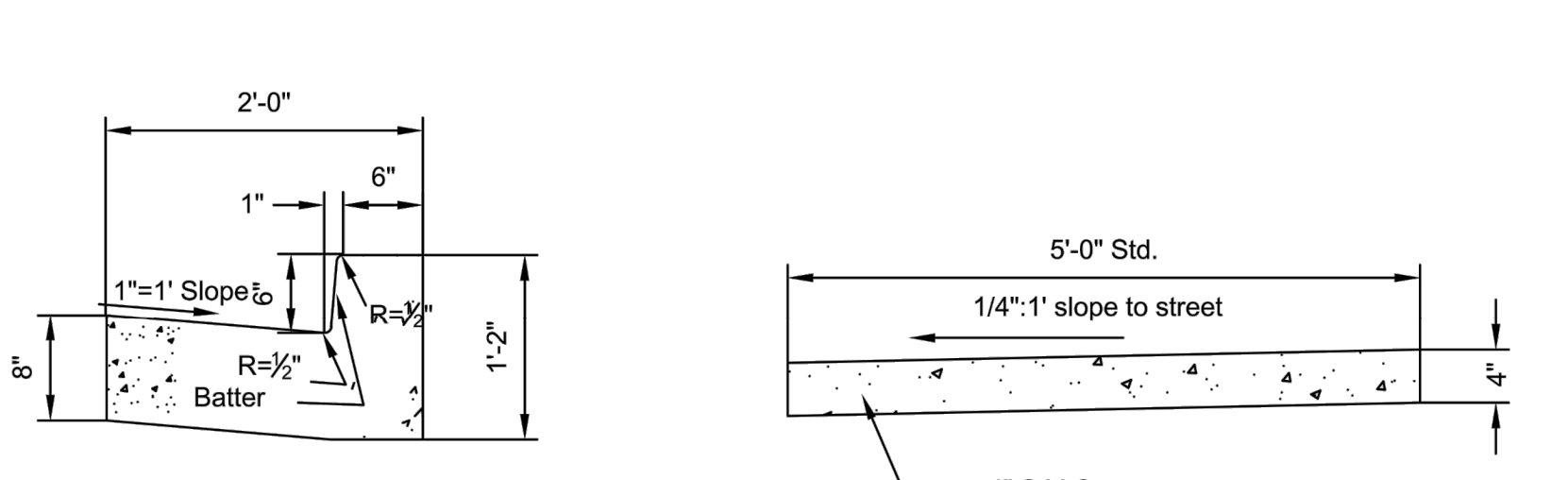
CG-3

NOTES:

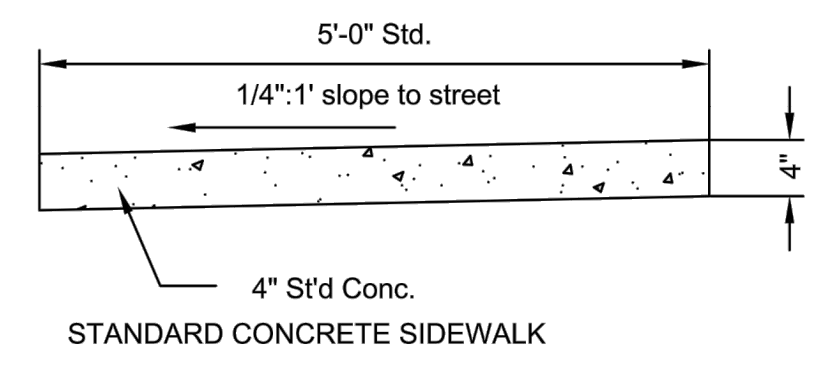
1. THIS ITEM MAY BE PRECAST OR CAST IN PLACE.
2. CONCRETE TO BE CLASS A3 IF CAST IN PLACE, 4000 PSI IF PRECAST.
3. CURB HAVING A RADIUS OF 300 FEET OR LESS (ALONG FACE OF CURB) WILL BE PAD FOR AS RADIAL CURB.
4. THE DEPTH OF CURB MAY BE REDUCED AS MUCH AS 3" (3" DEPTH) OR INCREASED AS MUCH AS 3" (3" DEPTH) IN ORDER THAT THE BOTTOM OF THE CURB WILL CONFORM WITH THE TOP OF A COURSE OF THE PAVEMENT SUBSTRUCTURE. OTHERWISE, THE DEPTH IS TO BE 9" AS SHOWN. NO ADJUSTMENT IN THE PRICE BID IS TO BE MADE FOR A DECREASE OR AN INCREASE IN DEPTH.
5. CG-3 IS TO BE USED ON ROADWAYS MEETING THE REQUIREMENTS FOR CG-3 AS SHOWN IN APPENDIX A OF THE VDOT ROAD DESIGN MANUAL IN THE SECTION ON GS URBAN STANDARDS.
6. WHEN THIS STANDARD IS TO BE TIED INTO EXISTING BARRIER CURB, THE TRANSITION IS TO BE MADE WITHIN 10' OF THE CHANGE IN STANDARDS CAN BE MADE AT REGULAR OPENINGS.



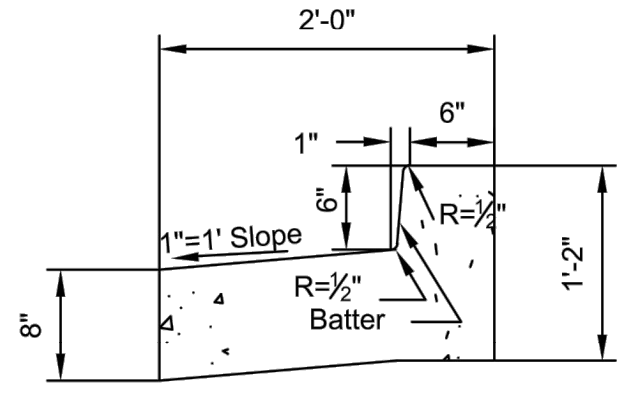
SPECIFICATION REFERENCE	105 502	STANDARD 4" CURB	ROAD AND BRIDGE STANDARDS	REVISION DATE	SHEET 1 OF 1
		VIRGINIA DEPARTMENT OF TRANSPORTATION	2010.2		



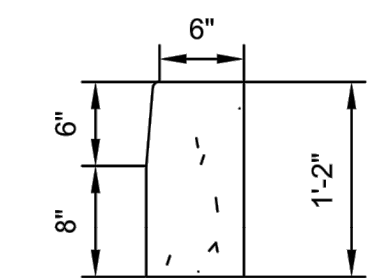
(C-2) STANDARD CURB & GUTTER



STANDARD CONCRETE SIDEWALK



(C-2R) STANDARD REVERSE PITCH CURB & GUTTER



(C-3) STANDARD HEADER CURB

NOTES:

1. SECTION C-3 IS TO BE USED ONLY WITH RIGID TYPE PAVEMENT UNLESS OTHERWISE DIRECTED IN WRITING OR WHEN SHOWN ON APPROVED PLANS.
2. EXPANSION JOINTS IN HEADER CURB AND STANDARD CURB AND GUTTERS SHALL BE 40' APART OR AT EXPANSION JOINTS IN CONCRETE PAVEMENT.
3. EXPANSION JOINTS MAY BE OMITTED IF 1/8" JOINTS ARE PLACED EVERY 10' OF LESS.
4. EXPANSION JOINTS IN THE SIDEWALK SHALL BE 40' APART. IF ADJACENT TO CONCRETE CURB, EXPANSION JOINTS SHALL MATCH JOINT OF CURB. AN EXPANSION JOINT SHALL BE PLACED BETWEEN CURB AND SIDEWALK.
5. SEE DRAWING R-2.2 FOR DETAIL OF SIDEWALK STRESS COLUMN TO BE PLACED UNDER SIDEWALK WHEN PLACED ADJACENT TO BACK OF CURB.
6. SEE ARLINGTON COUNTY SPECIFICATION SECTIONS 02611 AND 03100 FOR MATERIAL SPECS.
7. PROVIDE 6" MINIMUM AGGREGATE BASE HAVING CBR-30 UNDER CURB AND GUTTER.
8. PROVIDE 3" MINIMUM AGGREGATE BASE HAVING CBR-30 UNDER SIDEWALK.

CONCRETE CURB & GUTTER AND SIDEWALK

Rev. Sidewalk Dims	07/11/2013
REVISION & DATE	



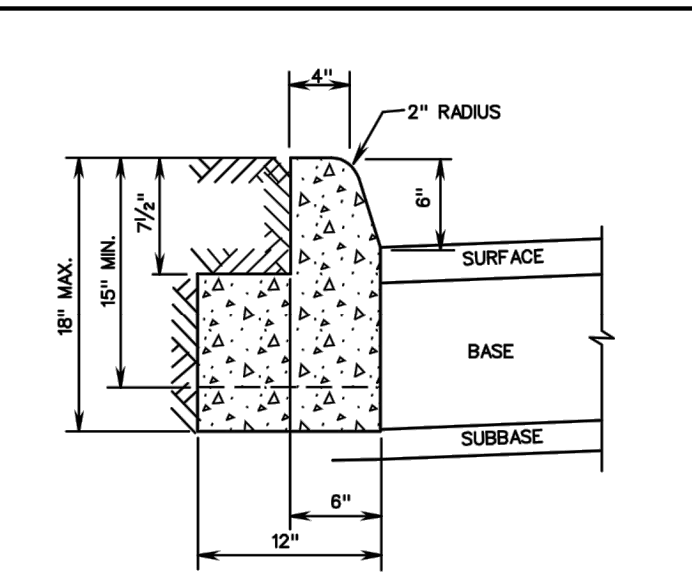
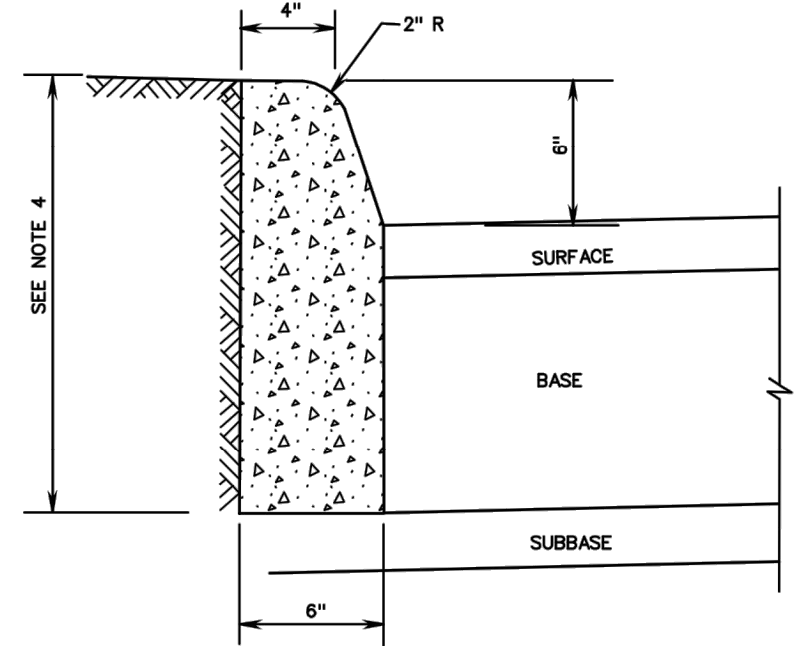
ARLINGTON COUNTY, VIRGINIA
 DEPARTMENT OF ENVIRONMENTAL SERVICES

DRAWING NO.
R-2.0

CG-2

NOTES:

1. THIS ITEM MAY BE PRECAST OR CAST IN PLACE.
2. CONCRETE TO BE CLASS A3 IF CAST IN PLACE, 4000 PSI IF PRECAST.
3. CURB HAVING A RADIUS OF 300 FEET OR LESS (ALONG FACE OF CURB) WILL BE PAD FOR AS RADIAL CURB.
4. THE DEPTH OF CURB MAY BE REDUCED AS MUCH AS 3" (3" DEPTH) OR INCREASED AS MUCH AS 3" (3" DEPTH) IN ORDER THAT THE BOTTOM OF CURB WILL CONFORM WITH THE TOP OF A COURSE OF THE PAVEMENT SUBSTRUCTURE. OTHERWISE, THE DEPTH IS TO BE 9" AS SHOWN. NO ADJUSTMENT IN THE PRICE BID IS TO BE MADE FOR A DECREASE OR AN INCREASE IN DEPTH.
5. CG-2 IS TO BE USED ON ROADWAYS MEETING THE REQUIREMENTS FOR CG-2 AS SHOWN IN APPENDIX A OF THE VDOT ROAD DESIGN MANUAL IN THE SECTION ON GS URBAN STANDARDS.



ACCEPTABLE ALTERNATIVE IF CURB IS EXTRUDED

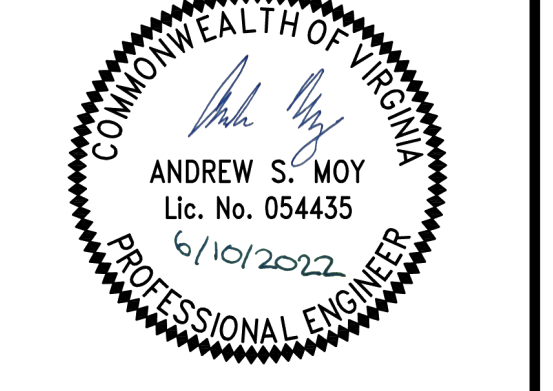
SPECIFICATION REFERENCE	105 502	STANDARD 6" CURB	ROAD AND BRIDGE STANDARDS	REVISION DATE	SHEET 1 OF 1
		VIRGINIA DEPARTMENT OF TRANSPORTATION	2010.1		



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<i>Paul Nabe</i>	08/24/2022
TRAFFIC ENGINEERING MANAGER	
<i>John</i>	9/1/22
WATER, SEWER, STREETS BUREAU CHIEF	
<i>John</i>	08/26/2022
TE&O BUREAU CHIEF	
<i>Dennis M. Leach</i>	08/29/2022
TRANSPORTATION DIRECTOR	

Revisions	Date

STANDARD DETAILS
 S. GLEBE ROAD
 INTERSECTION IMPROVEMENTS
 AT S. EADS STREET

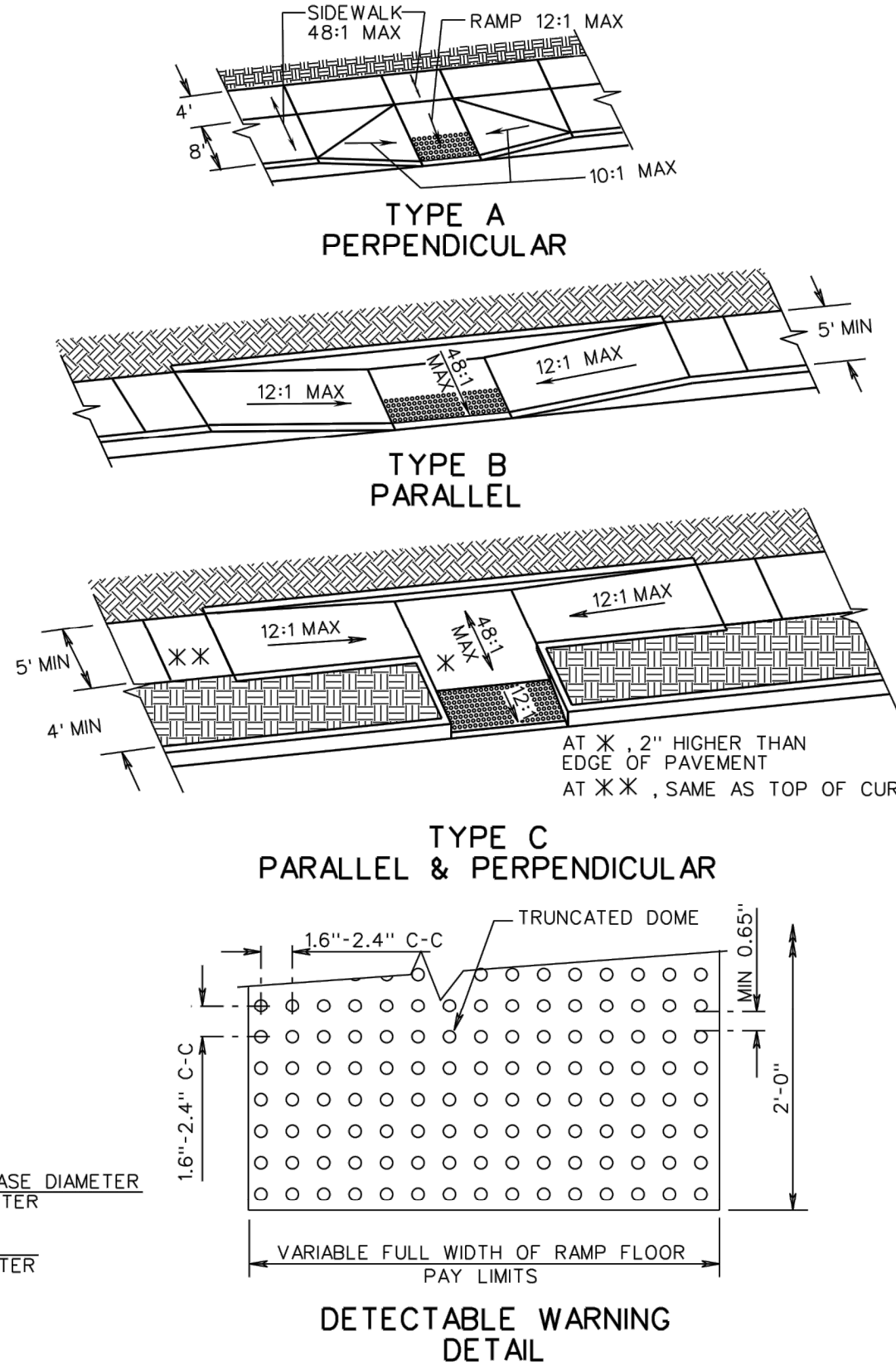
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 CHECKED: ASM
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 PLOTTED: June 06, 2022
 PLOTTED BY: kmitta

SCALE: N.T.S.

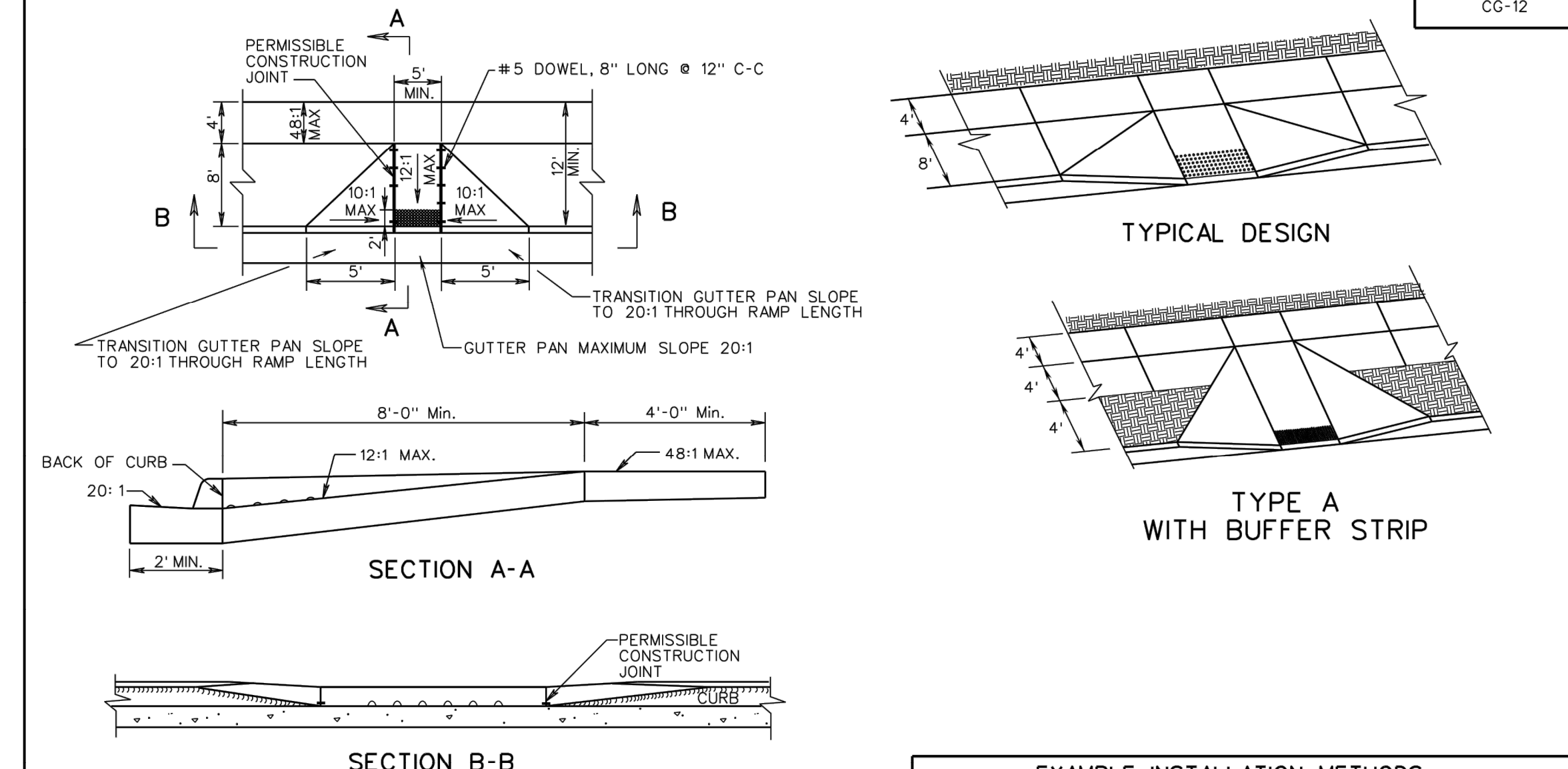
GENERAL NOTES:

1. THE DETECTABLE WARNING SHALL BE PROVIDED BY TRUNCATED DOMES.
2. ALL DETECTABLE WARNING SURFACE PRODUCTS SHALL MEET THE REQUIREMENTS OF SECTION 504 OF THE SPECIFICATIONS FOR CG-12 DETECTABLE WARNING SURFACE. DETECTABLE WARNING SURFACE PRODUCTS USED SHALL BE FROM THE MATERIALS APPROVED PRODUCT LIST NUMBER 72.
3. SLOPING SIDES OF CURB RAMP MAY BE POURED MONOLITHICALLY WITH RAMP FLOOR OR BY USING PERMISSIBLE CONSTRUCTION JOINT WITH REQUIRED BARS.
4. REQUIRED BARS ARE TO BE NO. 5 X 8" PLACED 1" CENTER TO CENTER ALONG BOTH SIDES OF THE RAMP FLOOR, MID-DEPTH OF RAMP FLOOR. MINIMUM CONCRETE COVER 1/2".
5. ROADWAY CURB / CURB AND GUTTER SLOPE TRANSITIONS ADJACENT TO CURB RAMP ARE INCLUDED IN PAYMENT FOR CURB / CURB AND GUTTER.
6. CURB RAMP ARE REQUIRED FOR SIDEWALKS AND SHARED USE PATHS. THE WIDTH OF THE CURB RAMP SHALL MATCH SIDEWALK WIDTH. WHEN CURB RAMP ARE USED IN CONJUNCTION WITH A SHARED USE PATH, THE MINIMUM WIDTH SHALL BE THE WIDTH OF THE SHARED USE PATH.
7. DETECTABLE WARNINGS SHALL EXTEND THE FULL WIDTH OF THE CURB RAMP LANDING FLOOR.
8. CURB RAMP WILL BE INSTALLED AND LOCATED WITHIN PEDESTRIAN CROSSWALKS AS SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER. CURB RAMP SHOULD NOT BE LOCATED BEHIND VEHICLE STOP LINES, LIGHT POLES, FIRE HYDRANTS, DROP INLETS, ETC.
9. RAMP MAY BE PLACED ON RADIAL OR TANGENTIAL SECTIONS PROVIDED THAT THE CURB OPENING IS PLACED WITHIN THE LIMITS OF THE CROSSWALK AND THAT THE SLOPE AT THE CONNECTION OF THE CURB OPENING IS PERPENDICULAR TO THE CURB.
10. DETECTABLE WARNING SURFACE PANELS SHALL BE INSTALLED FLUSH WITH THE BACK OF CURB.
11. WHERE CURB RAMP INTERSECT A RADIAL SECTION OF CURB AT ENTRANCES OR STREET CONNECTIONS THE DETECTABLE WARNING SURFACE SHALL HAVE A FACTORY RADIUS OR BE FIELD-MODIFIED AS RECOMMENDED BY THE MANUFACTURER TO MATCH THE BACK OF CURB. SEE CG-12-INS PAGES 204.06 AND 204.07 FOR METHODS OF INSTALLING DETECTABLE WARNINGS ON A RADIUS.

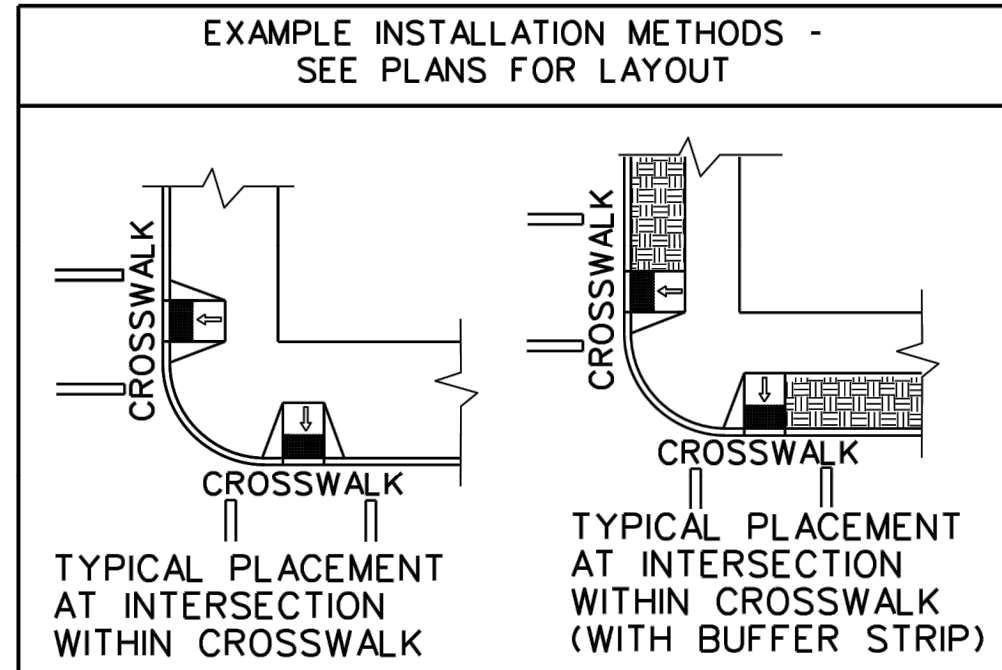
NOTE: COMPONENTS OF CURB RAMP CONSIST OF THE FOLLOWING:
 HYDRAULIC CEMENT SIDEWALK (DEPTH IN INCHES, AREA IN SQUARE YARDS)
 CURB WHEN REQUIRED (100-2 OR CG-3 IN LINEAR FEET)
 DETECTABLE WARNING SURFACE (AREA IN SQUARE YARDS)
 EACH OF THE ABOVE ITEMS IS A SEPARATE PAY ITEM AND SHOULD BE SUMMARIZED FOR EACH CURB CUT RAMP.



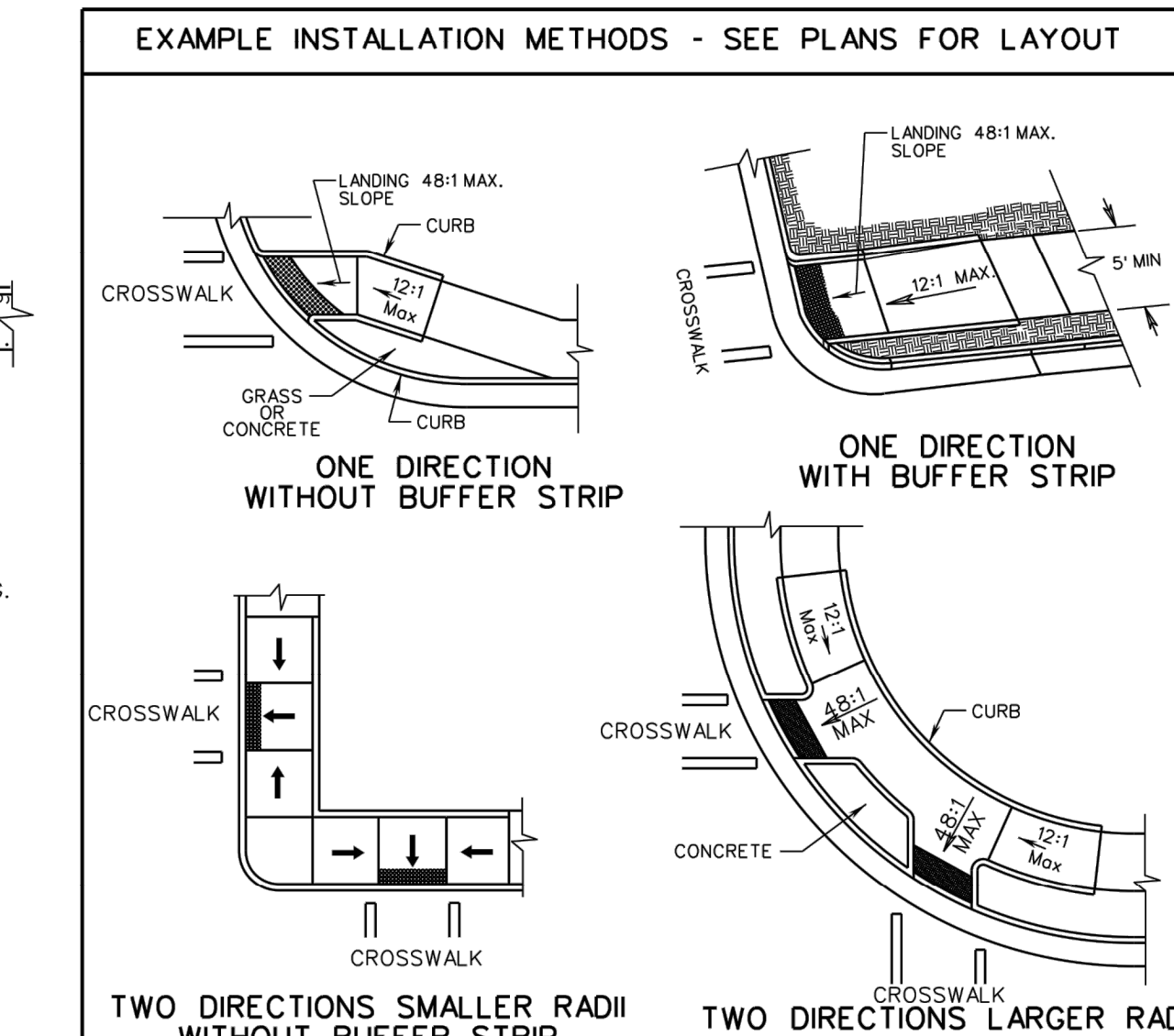
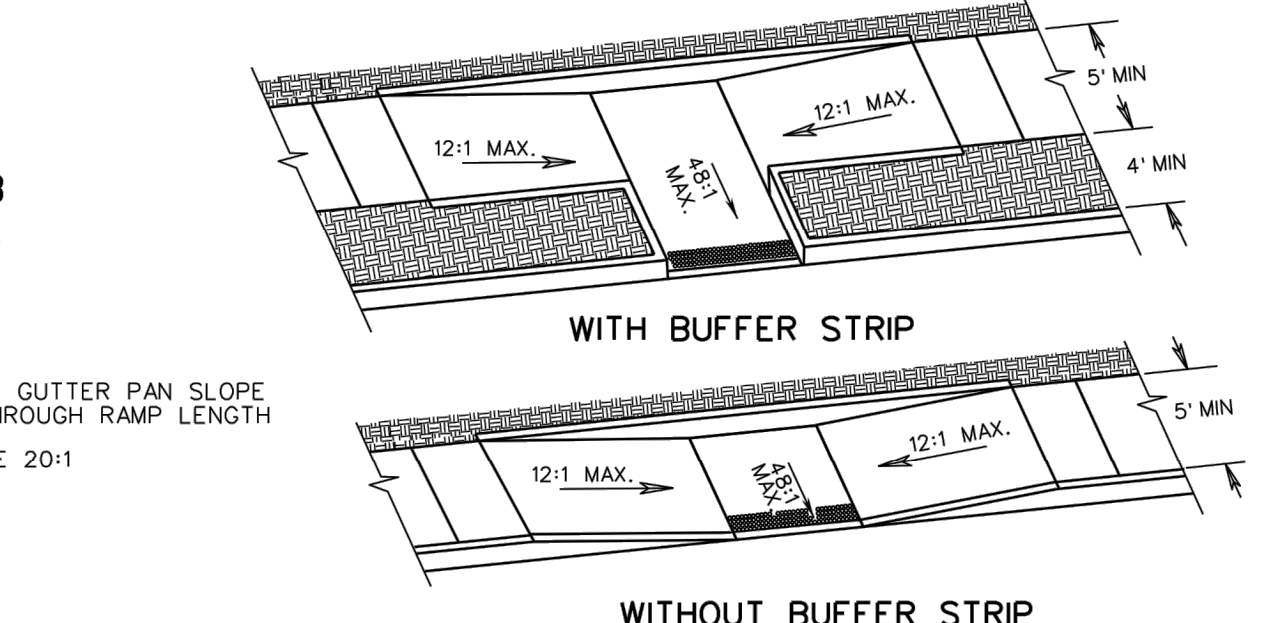
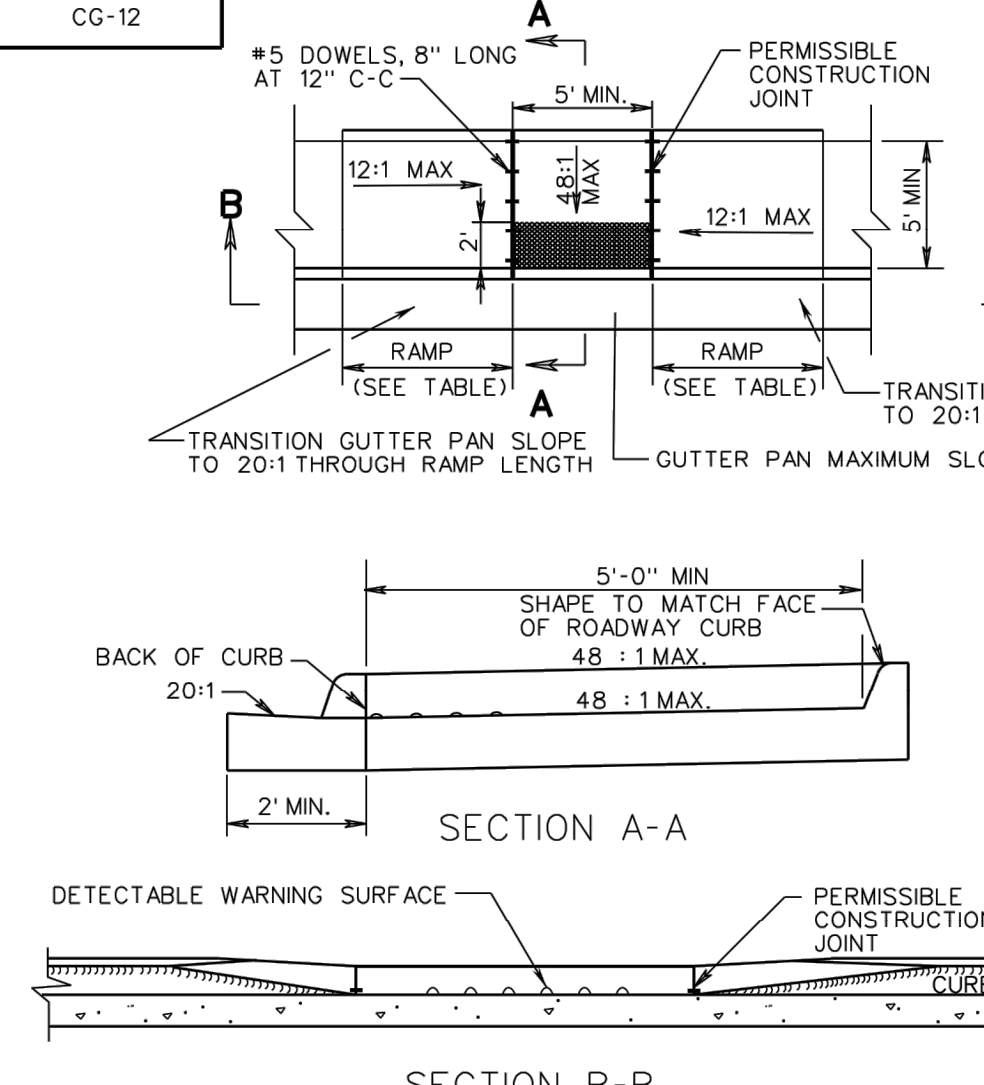
VDOT ROAD AND BRIDGE STANDARDS		A COPY OF THE ORIGINAL SEALED AND SIGNED DRAWING IS ON FILE IN THE CENTRAL OFFICE.		SPECIFICATION REFERENCE	
CG-12 DETECTABLE WARNING SURFACE (GENERAL NOTES)				105 502 504	
SHEET 1 OF 5 REVISION DATE 04/19		VIRGINIA DEPARTMENT OF TRANSPORTATION		204.01	



- NOTES:
1. FOR GENERAL NOTES ON THE DETECTABLE WARNING SURFACE, SEE SHEET 1 OF 5.
 2. THIS DESIGN TO BE USED FOR CONSTRUCTION THAT INCORPORATES WIDER SIDEWALK, LANDING (4' WIDE) REQUIRED AT TOP OF CURB RAMP. MINIMUM CURB RAMP LENGTH 8 FEET FOR NEW CONSTRUCTION.
 3. GUTTER PAN SHALL BE A MAXIMUM SLOPE OF 20:1 AT THE RAMP OPENING.
 4. DIAGONAL PLACEMENT IS NOT PERMITTED.



VDOT ROAD AND BRIDGE STANDARDS		A COPY OF THE ORIGINAL SEALED AND SIGNED DRAWING IS ON FILE IN THE CENTRAL OFFICE.		SPECIFICATION REFERENCE	
CG-12 DETECTABLE WARNING SURFACE TYPE A (PERPENDICULAR) APPLICATION				105 502 504	
SHEET 2 OF 5 REVISION DATE 04/19		VIRGINIA DEPARTMENT OF TRANSPORTATION		204.02	



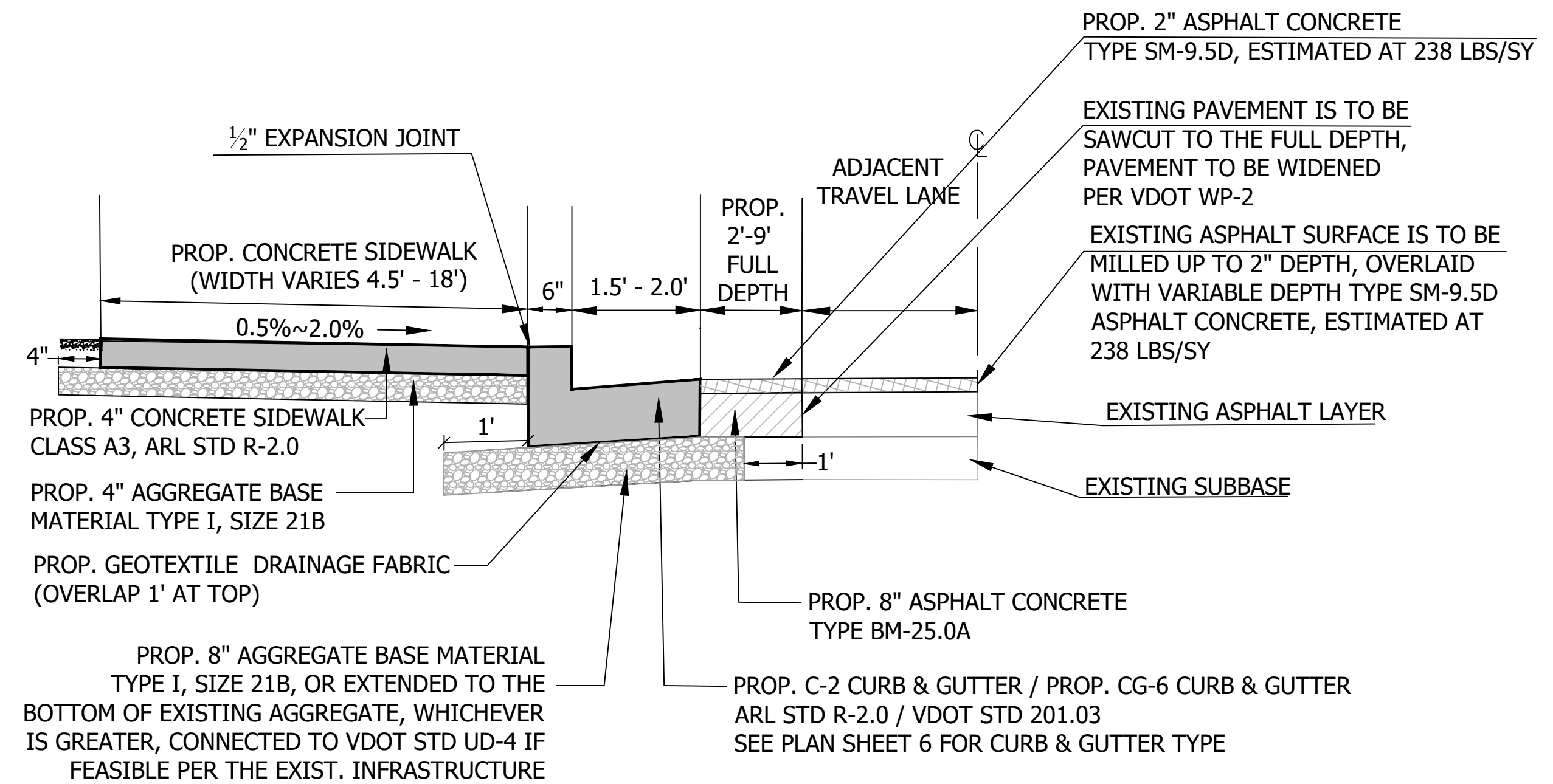
- NOTES:
1. FOR GENERAL NOTES ON THE DETECTABLE WARNING SURFACE, SEE SHEET 1 OF 5.
 2. THE REQUIRED LENGTH OF A PARALLEL RAMP IS LIMITED TO 15 FEET, REGARDLESS OF THE SLOPE.
 3. GUTTER PAN SHALL BE A MAXIMUM SLOPE OF 20:1 AT THE RAMP OPENING.
 4. DIAGONAL PLACEMENT IS NOT PERMITTED.

ROADWAY GRADE IN PERCENT	MINIMUM RAMP LENGTH IN FEET	
	4" CURB	6" CURB
0	4	6
1	5	7
2	5	8
3	6	9
4	6	12
5	10	15
6	14	15

VDOT ROAD AND BRIDGE STANDARDS		A COPY OF THE ORIGINAL SEALED AND SIGNED DRAWING IS ON FILE IN THE CENTRAL OFFICE.		SPECIFICATION REFERENCE	
CG-12 DETECTABLE WARNING SURFACE TYPE B (PARALLEL) APPLICATION				105 502 504	
SHEET 3 OF 5 REVISION DATE 04/19		VIRGINIA DEPARTMENT OF TRANSPORTATION		204.03	

TYPICAL SECTION

EDGE OF PAVEMENT @ PROPOSED CURB EXTENSIONS

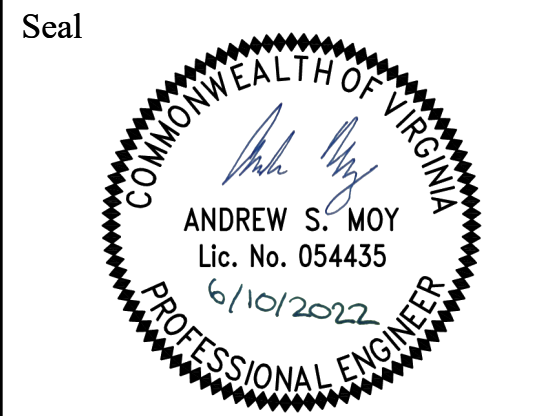


- NOTES:
1. ALL PAVEMENTS SHALL BE WIDENED IN ACCORDANCE WITH VDOT STANDARD WP-2. PROPOSED FULL DEPTH PAVEMENT REPLACEMENT SHALL MATCH EXISTING PAVEMENT IN ACCORDANCE WITH VDOT STANDARD WP-2.
 2. PROPOSED SIDEWALK CONCRETE SHALL BE CLASS A3.
 3. AGGREGATE SUBBASE THICKNESS BENEATH THE WIDENED PAVEMENT SHALL BE AS INDICATED (6 INCHES) ON THIS SHEET OR MATCH THE EXISTING AGGREGATE BASE MATERIAL, WHICHEVER IS GREATER.
 4. PROVIDE MINIMUM 12" WIDE GRADING BENCH BEHIND PROPOSED SIDEWALKS WHEN SPACE ALLOWS.
 5. AS INDICATED IN TYPICAL SECTION, THE SUBBASE 21-B SHALL BE CONNECTED TO A VDOT STANDARD UD-4 EDGE DRAIN, IF FEASIBLE PER THE EXISTING INFRASTRUCTURE, LOCATED BENEATH THE PROPOSED CURB AND GUTTER, TO BE SECURELY CONNECTED TO OUTFALL AT AN ADJACENT DRAINAGE STRUCTURE.
 6. THE ADJACENT TRAVEL LANE SHALL BE MILLED TO A DEPTH OF 2" AND REPLACED WITH 2" ASPHALT.
 7. PROVIDED ATTAINING MINIMUM 4" OF AGGREGATE ON TOP OF THE EDGEDRAIN IF FEASIBLE PER THE EXISTING INFRASTRUCTURE.



DEPARTMENT OF ENVIRONMENTAL SERVICES

Transportation Engineering and Operations Bureau
 2100 Clarendon Boulevard, Suite 900
 Arlington, VA 22201
 Phone: 703.228.3344
 Fax: 703.228.3719



APPROVALS	DATE
<i>Andrew S. Moy</i>	08/19/2022
TRAFFIC SIGNAL ENGINEER	
<i>Paul Nabe</i>	08/24/2022
TRAFFIC ENGINEERING MANAGER	
<i>John</i>	9/1/22
WATER, SEWER, STREETS BUREAU CHIEF	
<i>John</i>	08/26/2022
TE&O BUREAU CHIEF	
<i>Dennis M. Leach</i>	08/29/2022
TRANSPORTATION DIRECTOR	

Revisions	Date

STANDARD DETAILS

S. GLEBE ROAD INTERSECTION IMPROVEMENTS AT S. EADS STREET

DESIGNED: ZDH
 DRAWN: ZDH
 CHECKED: ASM
 MISS UTILITY TRANSMITTAL #: xxx

FILENAME: T08S-148-02-Legend.dwg
 PATH: Orders\T0_010_GlebeEads\cadd\Sheets

PLOTTED: June 06, 2022
 PLOTTED BY: kmita

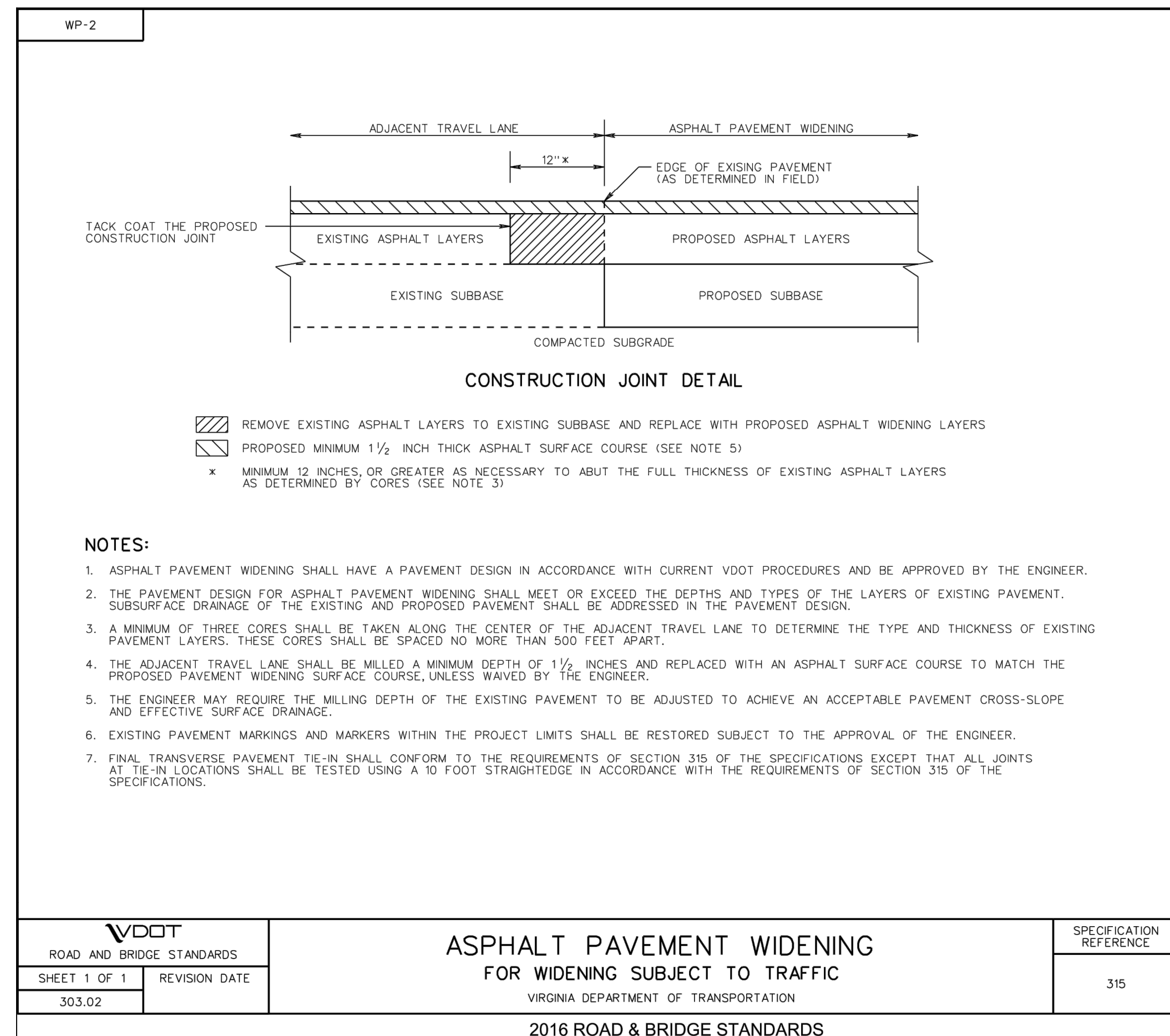
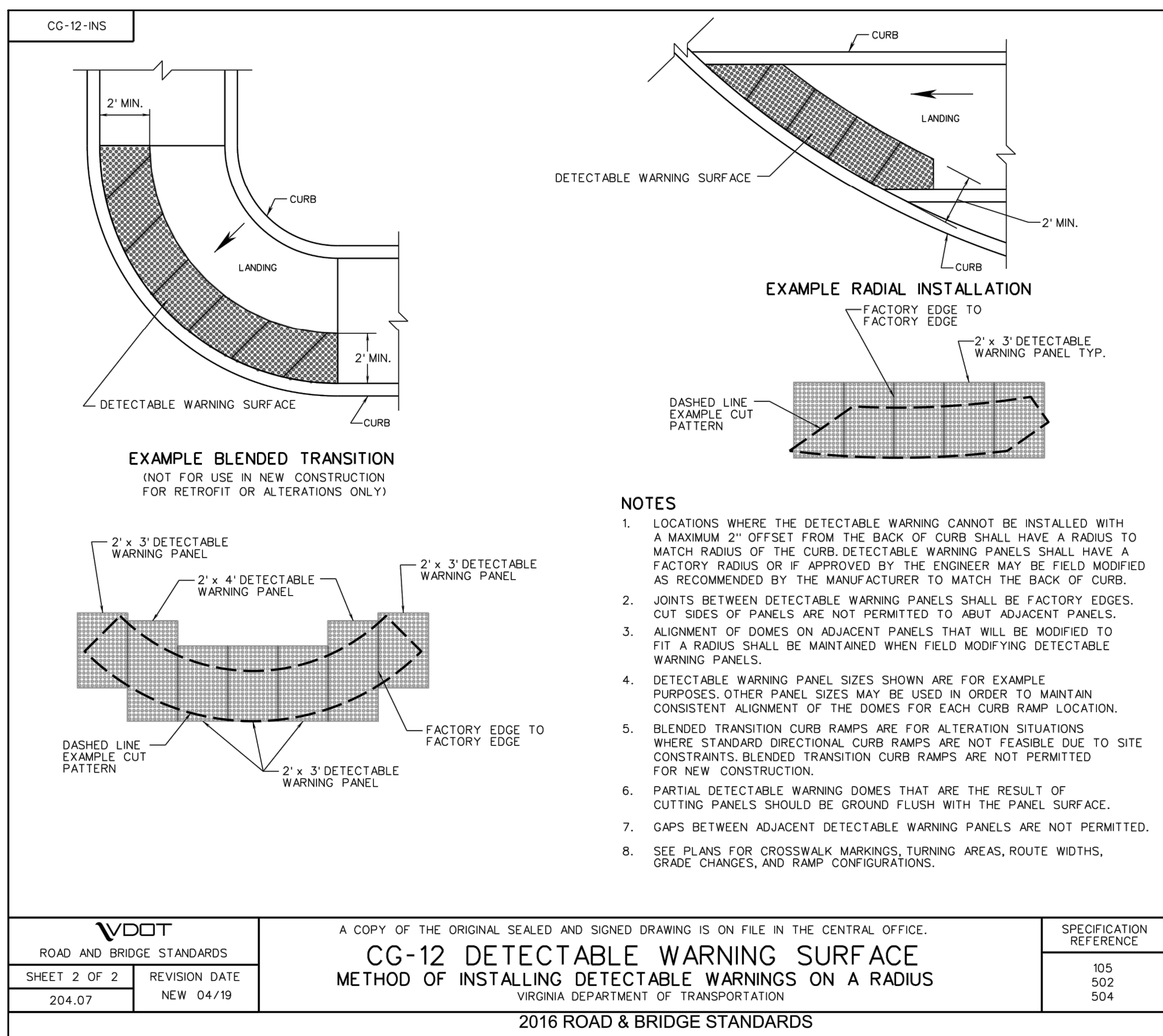
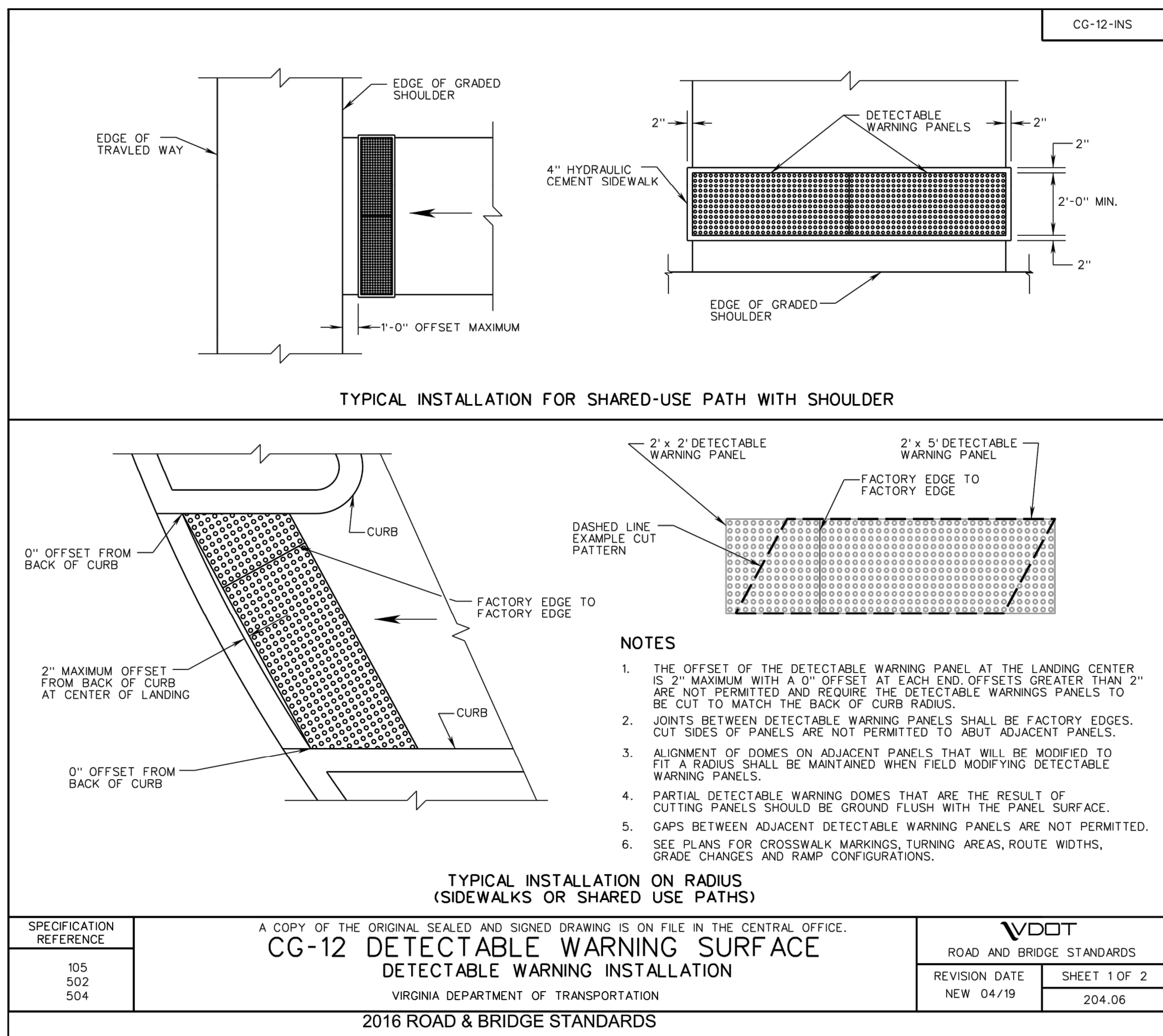
SCALE: N.T.S.

DESIGNED BY: RUMMEL, KLEPPER, & KAHL, LLP, ANDREW MOY, PE (703-246-0028) SURVEYED BY: ARLINGTON COUNTY GOV., DES DATE: JULY 2020

PROJECT MANAGER: ANDREW HAYES, PE, PTDE (571-243-1120) SURVEYED BY: ARLINGTON COUNTY GOV., DES DATE: JULY 2020

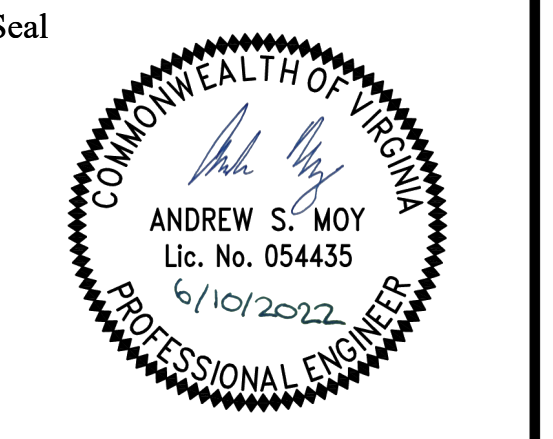
DESIGNED BY: RUMMEL, KLEPPER, & KAHL, LLP, ANDREW MOY, PE (703-246-0028)
 SURVEYED BY: ARLINGTON COUNTY GOV., DES
 DATE: JULY 2020

PROJECT MANAGER: ANDREW HAYES, PE, PTDE (571-243-1120)
 SURVEYED BY: ARLINGTON COUNTY GOV., DES
 DATE: JULY 2020



DEPARTMENT OF ENVIRONMENTAL SERVICES

Transportation Engineering and Operations Bureau
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APPROVALS	DATE
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<i>John</i> WATER, SEWER, STREETS BUREAU CHIEF	9/1/22
<i>John</i> TE&O BUREAU CHIEF	08/26/2022
<i>Donna M. Leach</i> TRANSPORTATION DIRECTOR	08/29/2022

Revisions	Date

STANDARD DETAILS
 S. GLEBE ROAD
 INTERSECTION IMPROVEMENTS
 AT S. EADS STREET

DESIGNED: ZDH
 DRAWN: ZDH
 CHECKED: ASM
 MISS UTILITY TRANSMITTAL #: xxx
 FILENAME: T08S-148-02-Legend.dwg
 PATH: Orders\T0_010_GlebeEads\cadd\Sheets
 PLOTTED: June 06, 2022
 PLOTTED BY: kmitta

SCALE: N.T.S.

Typical Traffic Control
Shoulder Operation with Minor Encroachment
(Figure TTC-5.2)

NOTES

- Standard
1. For required sign assemblies for multi-lane roadways see Note 1, TTC-4.1
Guidance
2. Sign spacing should be 1300'-1500' for Limited Access highways. For all other roadways, the sign spacing should be 500'-800' where the posted speed limit is greater than 45 mph, and 350'-500' where the posted speed limit is 45 mph or less.
3. When work takes up part of a lane on a high volume roadway, vehicular traffic volumes, vehicle mix, speed and capacity should be analyzed to determine whether the affected lane should be closed. Unless the lane encroachment analysis permits a remaining lane width of 10 feet, the lane should be closed. If the closure operation is on a Limited Access highway, the minimum lane width is 11 feet.
Option:
4. The ROAD WORK AHEAD (W20-1) sign on an intersecting roadway may be omitted where drivers emerging from that roadway will encounter another advance warning sign prior to this activity area.

- Standard:
5. A shadow vehicle with either an arrow board operating in the caution mode, or at least one high-intensity amber rotating, flashing, or oscillating light shall be parked 80' - 120' in advance of the first work crew.
6. Vehicle hazard warning signals shall not be used instead of the vehicle's high-intensity amber rotating, flashing, or oscillating lights. Vehicle hazard warning signals can be used to supplement high-intensity amber rotating, flashing, or oscillating lights.
7. Taper length (L) and channelizing device spacing shall be at the following:

Table with 3 columns: Speed Limit (mph), Lane Width (Feet), and Remarks. Sub-tables for Taper Length L and Channelizing Device Spacing.

- 8. Channelizing device spacing shall be at the following:
9. On roadways with paved shoulders having a width of 8 feet or more, channelizing devices shall be used to close the shoulder in advance of the merging taper to direct vehicular traffic to remain within the traveled way.
10. The buffer space length The buffer space length shall be as shown in Table 6H-3 on Page 6H-5 for the posted speed limit.
11. A truck-mounted attenuator (TMA) shall be used on Limited Access highways and multi-lane roadways with posted speed limit equal to or greater than 45 mph.
12. When a side road intersects the highway within the temporary traffic control zone, additional traffic control devices shall be placed as needed.

1: Revision 1 - 4/1/2015
2: Revision 2 - 9/1/2019

Typical Traffic Control
Outside Lane Closure Operation on a Four-Lane Roadway
(Figure TTC-16.2)

NOTES

- Standard:
1. On divided highways having a median wider than 8', right and left sign assemblies shall be required.
Guidance:
2. Sign spacing should be 1300'-1500' for Limited Access highways. For all other roadways, the sign spacing should be 500'-800' where the posted speed limit is greater than 45 mph, and 350'-500' where the posted speed limit is 45 mph or less.
3. When closing a lane, a PCMS should be used in advance of the first warning sign if all of the left side signs cannot be installed.
4. Care should be exercised when establishing the limits of the work zone to insure maximum possible sight distance in advance of the transition, based on the posted speed limit and at least equal to or greater than the values in Table 6H-3. For Limited Access highways a minimum of 1000' is desired.
5. All vehicles, equipment, workers, and their activities should be restricted to one side of the pavement.

- Standard:
6. Taper length (L) and channelizing device spacing shall be at the following:

Table with 3 columns: Speed Limit (mph), Lane Width (Feet), and Remarks. Sub-tables for Taper Length L and Channelizing Device Spacing.

- 7. Channelizing device spacing shall be at the following:
8. An arrow board shall be used when a lane is closed. When more than one lane is closed, a separate arrow board shall be used for each closed lane (see Figure TTC-18).
9. The buffer space length shall be shown in Table 6H-3 on Page 6H-5 for the posted speed limit.
10. A shadow vehicle with either a Type B or C arrow board operating in the caution mode, or at least one high intensity amber rotating, flashing, or oscillating light shall be parked 80'-120' in advance of the first work crew. When the posted speed limit is 45 mph or greater, a truck-mounted attenuator shall be used.
11. Vehicle hazard warning signals shall not be used instead of the vehicle's high-intensity amber rotating, flashing, or oscillating lights but can be used to supplement the amber rotating, flashing, or oscillating lights.
12. When a side road intersects the highway within the TTC zone, additional TTC devices shall be placed as needed.

- Option:
13. PTRS and their supporting signs may be used, see Sections 6F.99 and 6G.25. Long-term transverse rumble strips may be used in long-term situations, see Section 6F.99 and TTC-20.
14. The supplemental PTRS may be eliminated.

1: Revision 1 - 4/1/2015
2: Revision 2 - 9/1/2019

Typical Traffic Control
Sidewalk Closure and Bypass Sidewalk Operation
(Figure TTC-35.1)

NOTES

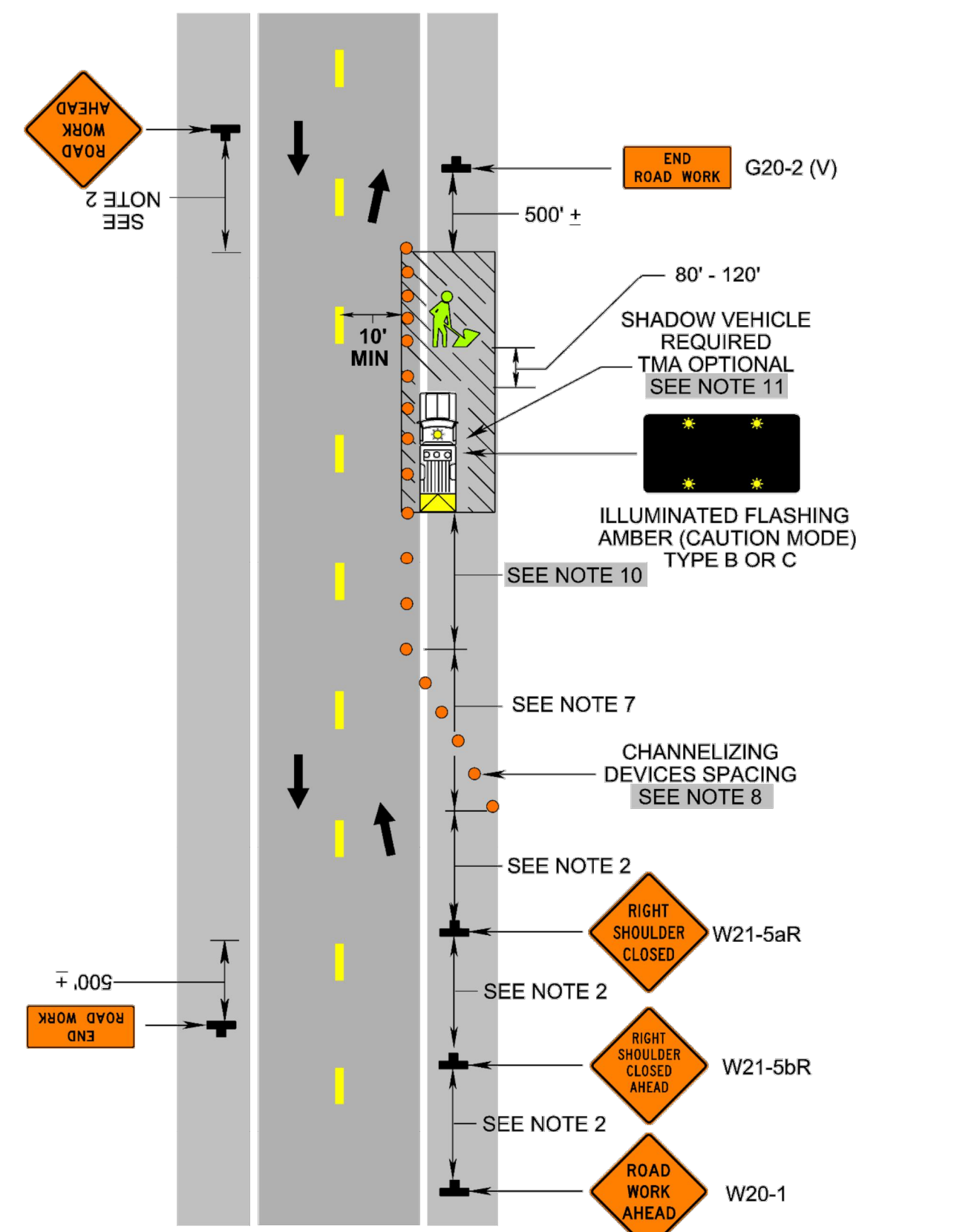
- Standard:
1. When crosswalks or other pedestrian facilities are closed or relocated, temporary facilities shall be detectable and shall include accessibility features consistent with the features present in the existing pedestrian facility.
Guidance:
2. Where high speeds are anticipated, a temporary traffic barrier and, if necessary, a crash cushion should be used to separate the temporary sidewalks from vehicular traffic.
3. Audible information devices should be considered where midblock closings and changed crosswalk areas cause inadequate communication to be provided to pedestrians who have visual disabilities.
4. Temporary markings should be considered for operations exceeding three days in duration.

- Option:
5. Only the TTC devices related to pedestrians are shown. Other devices, such as lane closure signing or ROAD NARROWS (W5-1) signs, may be used to control vehicular traffic.
6. For nighttime closures, Type A Flashing warning lights may be used on barricades that support signs and close sidewalks.
7. Signs, such as KEEP RIGHT (R4-V7R) and KEEP LEFT (R4-V7L), may be placed along a temporary sidewalk to guide or direct pedestrians.

- Standard:
8. All sidewalk closures shall be closed with Type 3 Barricades. The SIDEWALK CLOSED (R9-9) sign and the SIDEWALK CROSS HERE (R9-11) sign shall be installed above the Type 3 barricade. The KEEP RIGHT sign can cover the top rail of the Type 3 Barricade.

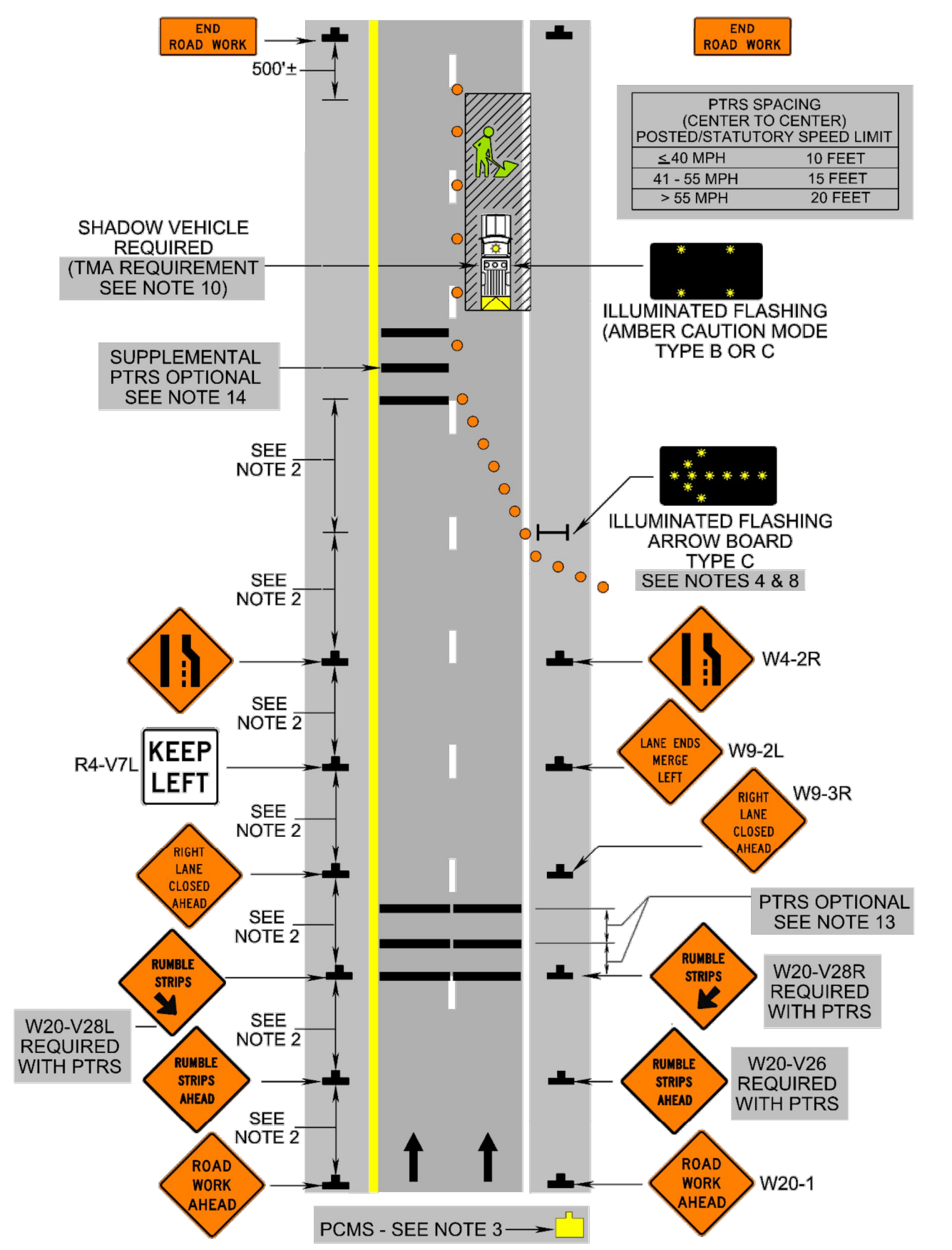
2: Revision 2 - 9/1/2019

Shoulder Operation with Minor Encroachment
(Figure TTC-5.2)



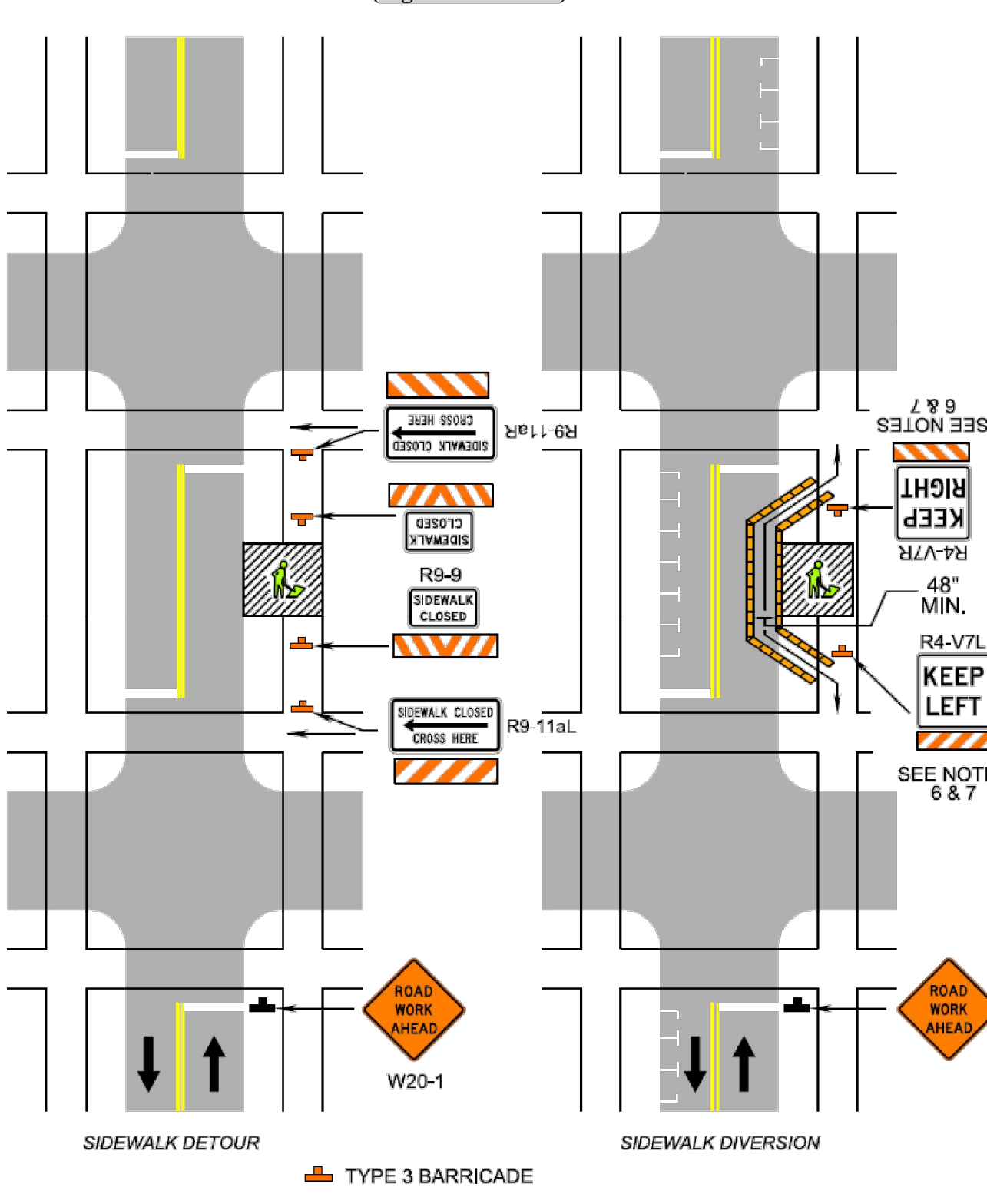
1: Revision 1 - 4/1/2015
2: Revision 2 - 9/1/2019

Outside Lane Closure Operation on a Four-Lane Roadway
(Figure TTC-16.2)



2: Revision 2 - 9/1/2019

Sidewalk Closure and Bypass Sidewalk Operation
(Figure TTC-35.1)



2: Revision 2 - 9/1/2019



DEPARTMENT OF ENVIRONMENTAL SERVICES

Transportation Engineering and Operations Bureau
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Fax: 703.228.3719

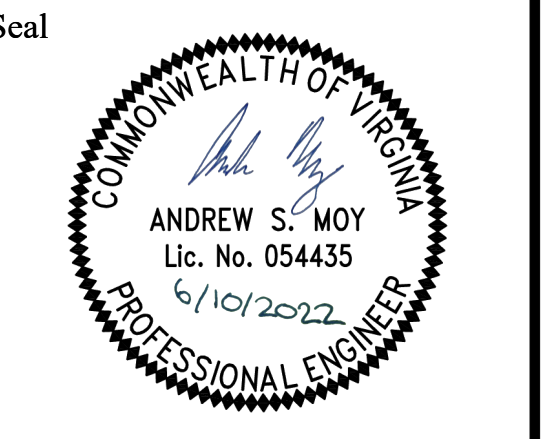


Table with columns: APPROVALS, DATE. Includes signatures and dates for Traffic Signal Engineer, Traffic Engineering Manager, Water Sewer, Streets Bureau Chief, and Transportation Director.

Table with columns: Revisions, Date. Includes revision 1 and 2.

STANDARD DETAILS
S. GLEBE ROAD
INTERSECTION IMPROVEMENTS
AT S. EADS STREET

DESIGNED: ZDH
DRAWN: ZDH
CHECKED: ASM
MISS UTILITY TRANSMITTAL #: xxx
FILENAME: T08S-148-02-Legend.dwg
PATH: Orders\T0_010_GlebeEads\cadd\Sheets
PLOTTED: June 06, 2022
PLOTTED BY: kmita

SCALE: N.T.S.

DESIGNED BY: RUMMEL, KLEPPER, & KAHL, LLP, ANDREW MOY, PE (703-246-0028)
SUBSURFACE UTILITY BY: ARLINGTON COUNTY GOV., DES. DATE: JULY 2020

PROJECT MANAGER: ANDREW HAYES, PE, PT OE (571-243-1120)
SURVEYED BY: ARLINGTON COUNTY GOV., DES. DATE: JULY 2020

Typical Traffic Control
Crosswalk Closure and Pedestrian Detour Operation
(Figure TTC-36.2)

NOTES

- Standard:**
- When crosswalks or other pedestrian facilities are closed or relocated, temporary facilities shall be detectable and shall include accessibility features consistent with the features present in the existing pedestrian facility.
 - Curb parking shall be prohibited for at least 50 feet in advance of the midblock crosswalk.
- Guidance:**
- Audible information devices should be considered where midblock closings and changed crosswalk areas cause inadequate communication to be provided to pedestrians who have visual disabilities.
 - Pedestrian traffic signal displays controlling closed crosswalks should be covered or deactivated.
 - Temporary markings should be considered for operations exceeding three days in duration.
- Option:**
- Only the TTC devices related to pedestrians are shown. Other devices, such as lane closure signing or ROAD NARROWS (W5-1) signs, may be used to control vehicular traffic.
 - For nighttime closures, Type A Flashing warning lights may be used on barricades supporting signs and closing sidewalks.
- Standard:**
- In order to maintain the systematic use of the fluorescent yellow-green background for school warning signs in a jurisdiction, the fluorescent yellow-green background for school warning signs shall be used in TTC zones.
 - All sidewalk closures shall be closed with Type 3 Barricades. The SIDEWALK CLOSED (R9-9) sign and the SIDEWALK CROSS HERE (R9-11) sign shall be installed above the Type 3 Barricade. The KEEP RIGHT sign can cover the top rail of the Type 3 Barricade.
- Support:**
- Refer to Sections 3B-16 through 3B-18 of the 2009 MUTCD and the Virginia Supplement to the MUTCD for crosswalk lines, yield lines and other related TTC devices that may be used to control vehicular traffic at midblock crosswalks.
- Standard:**
- The YIELD HERE TO PEDESTRIANS (R1-5) sign shall be placed at the Yield Line.
 - Fluorescent yellow-green PEDESTRIAN TRAFFIC (W11-2) symbol sign, AHEAD (W16-9p) plaque and ARROW (W16-7p) plaque shall be used to identify the work zone crosswalk.

1: Revision 1 - 4/1/2015
 2: Revision 2 - 9/1/2019

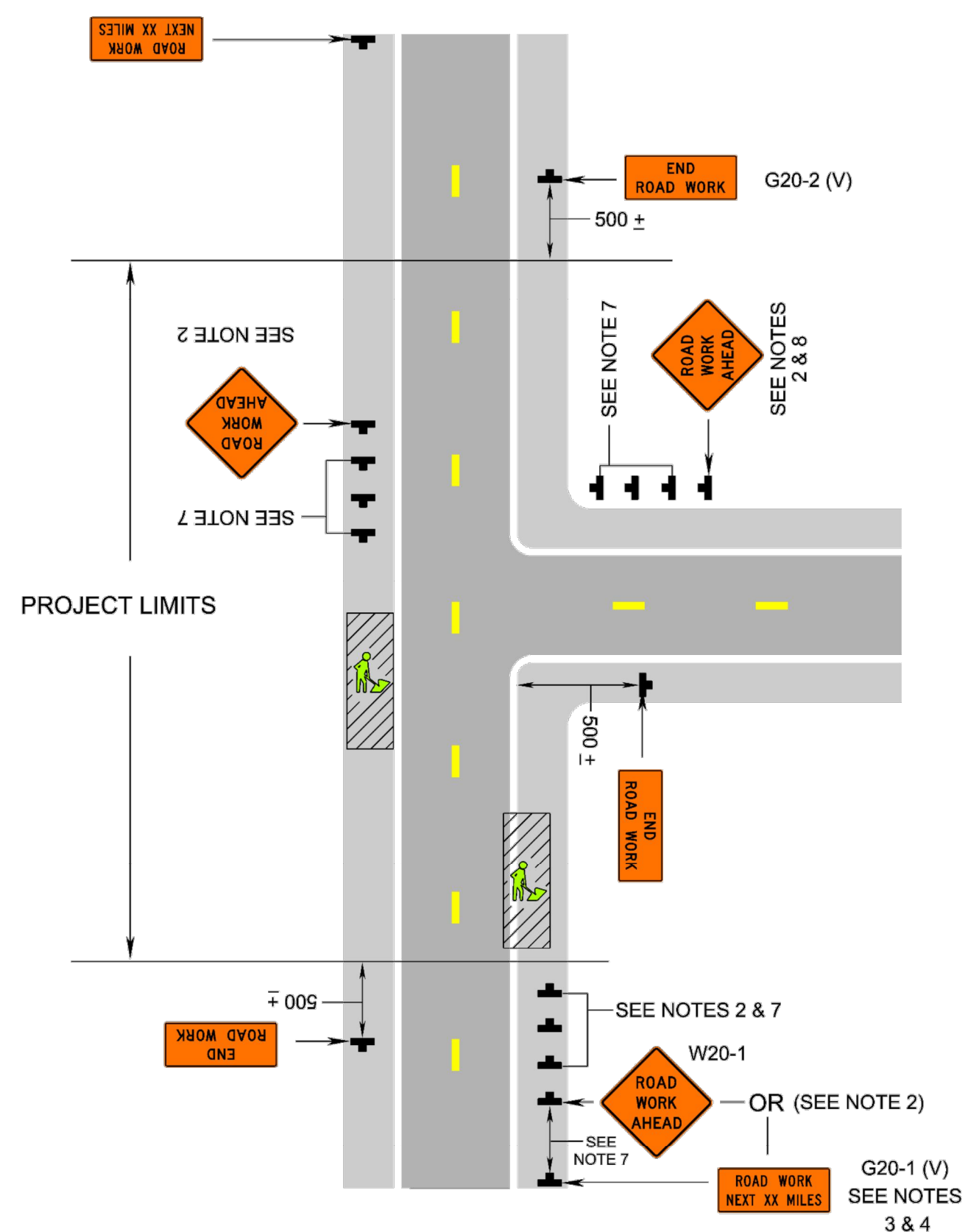
DESIGNED BY: RUMMEL, KLEPPER, & KAHL, LLP, ANDREW MOY, PE (703-246-0028)
 SURVEYED BY: ARLINGTON COUNTY GOV., DES. DATE: JULY 2020

Typical Traffic Control
Signing for Project Limits
(Figure TTC-53.0)

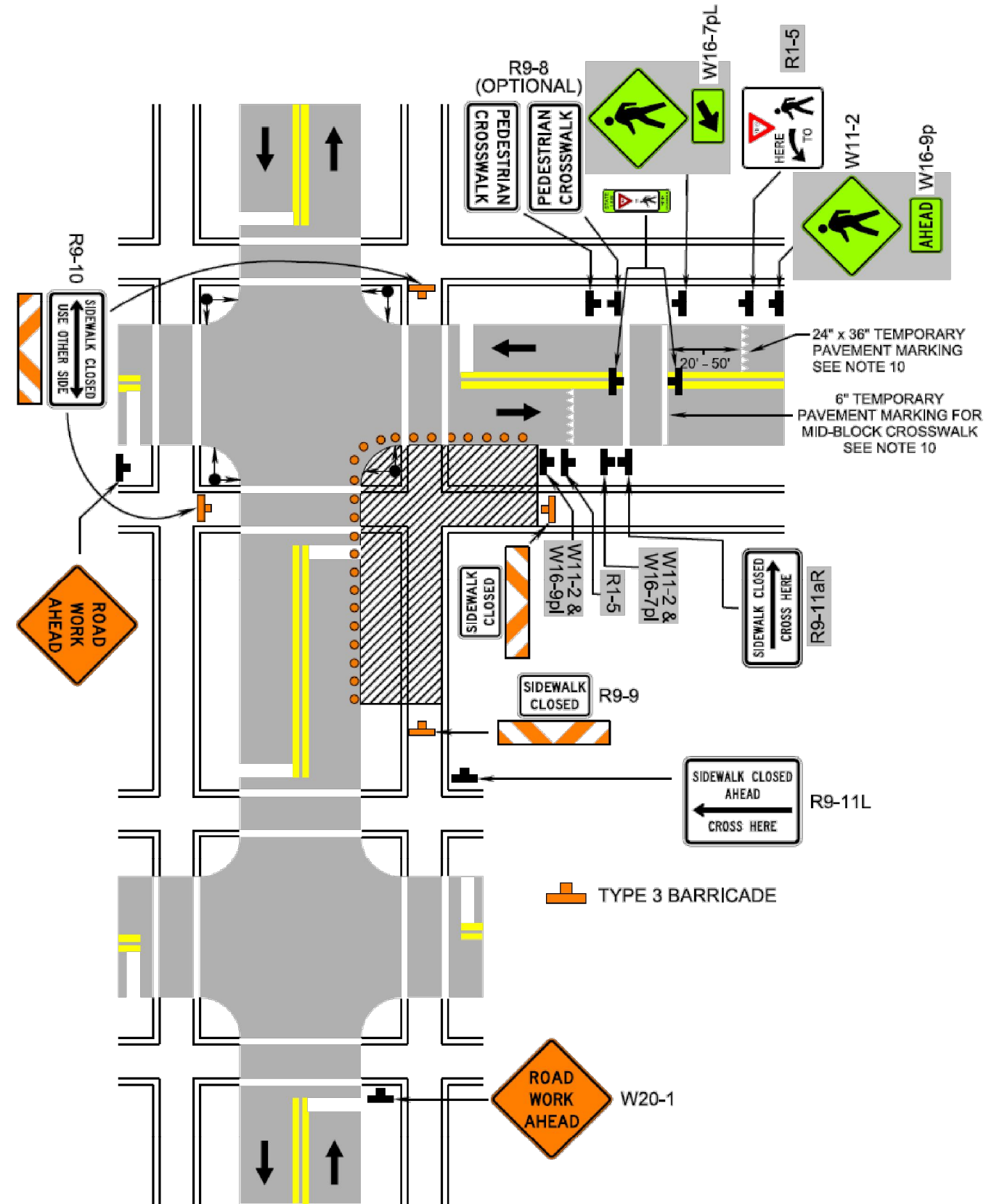
NOTES

- Support:**
- This layout depicts signing requirements for notifying motorist when they are entering and exiting a potential construction/maintenance area with a duration equal to or greater than 60 days.
- Standard:**
- The ROAD WORK AHEAD (W20-1) sign or the ROAD WORK NEXT XX MILES (G20-1 (V)) sign shall be placed far enough in advance of the project limits so that other warning signs in a series may be adequately placed prior to the condition they are warning about.
 - The ROAD WORK NEXT XX MILES sign shall be used for projects with activity areas greater than 2 miles in length, or when multiple work activities (such as pavement patching, guardrail installations, shoulder restoration, etc.) occur along a highway.
 - The distance displayed on the ROAD WORK NEXT XX MILES sign shall be stated to the nearest whole mile from the point of installation to the END ROAD WORK (G20-2 (V)) sign.
 - On divided highways having a median wider than 8', right and left sign assemblies shall be required.
- Guidance:**
- For projects with activity areas 2 miles or less in length, the ROAD WORK AHEAD sign should be the first sign motorist encounter.
 - Sign spacing should be 1300'-1500' for Limited Access highways. For all other roadways, the sign spacing should be 500'-800' where the posted speed limit is greater than 45 mph, and 350'-500' where the posted speed limit is 45 mph or less.
 - All connections within the project limits should be identified with signs indicating to motorist they are entering or exiting a potential construction/maintenance area.

Signing for Project Limits
(Figure TTC-53.0)



Crosswalk Closure and Pedestrian Detour Operation
(Figure TTC-36.2)



1: Revision 1 - 4/1/2015
 2: Revision 2 - 7/1/2018

PROJECT MANAGER: ANDREW HAYES, PE, PT OE (571-243-1120) DATE: JULY 2020
 SURVEYED BY: ARLINGTON COUNTY GOV., DES.



DEPARTMENT OF ENVIRONMENTAL SERVICES

Transportation Engineering and Operations Bureau
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 Arlington, VA 22201
 Phone: 703.228.3344
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Seal



APPROVALS	DATE
<i>Andrew S. Moy</i> TRAFFIC SIGNAL ENGINEER	08/19/2022
<i>John Nabe</i> TRAFFIC ENGINEERING MANAGER	08/24/2022
<i>John Nabe</i> WATER, SEWER, STREETS BUREAU CHIEF	9/1/22
<i>John Nabe</i> TE&O BUREAU CHIEF	08/26/2022
<i>Dennis M. Leach</i> TRANSPORTATION DIRECTOR	08/29/2022

Revisions Date

Revisions	Date

STANDARD DETAILS
 S. GLEBE ROAD
 INTERSECTION IMPROVEMENTS
 AT S. EADS STREET

DESIGNED: ZDH
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 MISS UTILITY TRANSMITTAL #: xxx
 FILENAME: T08S-148-02-Legend.dwg
 PATH: Orders\T0_010_GlebeEads\cadd\Sheets
 PLOTTED: June 06, 2022
 PLOTTED BY: kmitta

SCALE: N.T.S.

SHEET 2E of 13A

MAINTENANCE NOTES
 ARLINGTON COUNTY SHALL HAVE MAINTENANCE RESPONSIBILITY FOR ALL ROADWAY INFRASTRUCTURE (SIDEWALK, ROAD ASPHALT, DRAINAGE, CURB/CURB & GUTTER, ETC.) WITHIN COUNTY RIGHT-OF-WAY. THE COUNTY WILL ALSO MAINTAIN ALL TRAFFIC SIGNAL INFRASTRUCTURE INDEPENDENT OF VDOT AND COUNTY RIGHT OF WAY BOUNDARIES. VDOT SHALL HAVE MAINTENANCE RESPONSIBILITY FOR ALL ROADWAY INFRASTRUCTURE (SIDEWALK, ROAD ASPHALT, DRAINAGE, CURB/CURB & GUTTER, ETC.), OUTSIDE OF THE TRAFFIC SIGNAL WITHIN VDOT RIGHT-OF-WAY. SEE SHEET 3/EXISTING CONDITIONS FOR LIMITS OF VDOT AND ARLINGTON COUNTY RIGHT-OF-WAY.

Curve Data - S. Glebe Road
 Delta: 05°19'48"
 Radius: 5729.58'
 Length: 533.00'
 Tangent: 266.69'
 Chord: 532.81'
 Chord Bearing: S 56°54'34" E
 P.C. 307+68.38
 P.T. 313+01.38
 P.C.C.

THE COUNTY BOARD OF ARLINGTON COUNTY, VIRGINIA
 D.B. 361, Pg. 372
 RPC 37036002

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
 D.B. 1810, Pg. 345
 RPC 37026005

NOTE:
 THE STORM SEWER LOCATIONS AND SIZES AT THIS INTERSECTION DIFFER FROM EXISTING ARLINGTON COUNTY RECORDS. THIS SURVEY CAN NOT GUARANTEE THE SUB-SURFACE ALIGNMENTS OF THESE STORM SEWER PIPES, DUE TO ACCESSIBILITY ISSUES.

P.O.C. 314+39.55 S. GLEBE ROAD
 P.O.T. 0+15.50 S. EADS STREET (NORTH)
 P.O.T. 9+84.50 S. EADS STREET (SOUTH)
 Δ = 97°22'00" LT. (NORTH)
 Δ = 82°22'00" LT. (SOUTH)

Curve Data - S. Glebe Road
 Delta: 37°04'22"
 Radius: 963.15'
 Length: 623.20'
 Tangent: 612.38'
 Chord: 578°06'39" E
 P.C. 313+01.38
 P.T. 319+24.58
 P.C.C.

THE COUNTY BOARD OF ARLINGTON COUNTY, VIRGINIA
 D.B. 1299, Pg. 580
 RPC 38006004

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
 D.B. 1810, Pg. 345
 RPC 37026005

DESIGNED BY: RUMMEL, KLEPPER, & KAHL, LLP, ANDREW MOY, PE (703-246-0028)
 SURVEYED BY: ARLINGTON COUNTY GOV., DES DATE: JULY 2020

PROJECT MANAGER: ANDREW HAYES, PE, PT OE (571-243-1120)
 SURVEYED BY: ARLINGTON COUNTY GOV., DES DATE: JULY 2020

STORM SEWER AS-BUILT TABLE

#1002 TOP = 11.36 15" RCP IN = 7.35 15" RCP OUT = 7.06	(20905) (1014)	#20926 TOP = 11.65 RCP IN = INACCESSIBLE RCP OUT = INACCESSIBLE	(20908) (1014)
#1014 TOP = 11.65 INACCESSIBLE		#20969 TOP = 13.35 18" RCP OUT = 9.35	(20941)
#20869 TOP = 10.35 15" RCP IN = INACCESSIBLE 15" RCP IN = 5.90 42" RCP IN = 4.14 42" RCP OUT = 4.08	(20864) (20897) (20895) (20826)	#20978 TOP = 10.48 15" RCP OUT = 6.43	(20895)
#20886 TOP = 10.48 15" RCP OUT = 6.43	(20895)	#20984 TOP = 13.02 18" RCP OUT = 7.70	(20978)
#20895 TOP = 11.16 15" RCP IN = INACCESSIBLE 34"x53" RCP IN = 5.93 42" RCP OUT = 5.63	(20886) (20905) (20869)	#14224 TOP = 12.39 C/L INVERT = 2.68	(20978) (20941) (20908)
#20897 TOP = 11.76 15" RCP OUT = 7.21	(20869)	#14242 TOP = 11.74 C/L INVERT = 2.07	(20941) (20908)
#20905 TOP = 11.39 34"x53" RCP IN = 6.86 34"x53" RCP OUT = INACCESSIBLE 15" RCP OUT = INACCESSIBLE	(20908) (20895) (1002)	#14249 TOP = 11.82 18" RCP OUT = 9.34 C/L INVERT = -0.68	(20969) (20926)
#20908 TOP = 11.48 RCP IN = INACCESSIBLE 15" RCP IN = 7.06 33" RCP IN = INACCESSIBLE 34"x53" OUT = 7.01	(20909) (20926) (20686) (20908)	#14259 TOP = 12.39 C/L INVERT = -0.21	
		#14262 TOP = 12.38 C/L INVERT = 0.41	
		#14265 TOP = 11.92 C/L INVERT = INACCESSIBLE	
		#14268 TOP = 12.86 C/L INVERT = 0.10	
		#14269 TOP = 12.39 C/L INVERT = 0.74	
		#14331 TOP = 15.82 C/L INVERT = 1.57	

SANITARY SEWER AS-BUILT TABLE

#14224 TOP = 12.39 C/L INVERT = 2.68	(20978) (20941) (20908)
#14242 TOP = 11.74 C/L INVERT = 2.07	(20941) (20908)
#14249 TOP = 11.82 18" RCP OUT = 9.34 C/L INVERT = -0.68	(20969) (20926)
#14259 TOP = 12.39 C/L INVERT = -0.21	
#14262 TOP = 12.38 C/L INVERT = 0.41	
#14265 TOP = 11.92 C/L INVERT = INACCESSIBLE	
#14268 TOP = 12.86 C/L INVERT = 0.10	
#14269 TOP = 12.39 C/L INVERT = 0.74	
#14331 TOP = 15.82 C/L INVERT = 1.57	

PROJECT CONTROL NOTES

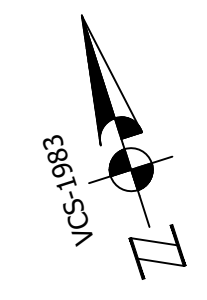
- THE HORIZONTAL DATUM USED FOR THIS PROJECT IS BASED UPON ARLINGTON COUNTY CONTROL MONUMENTS B036 AND B037, NO SCALE FACTOR WAS APPLIED.
- THE VERTICAL DATUM USED FOR THIS PROJECT IS BASED UPON ARLINGTON COUNTY CONTROL MONUMENT B037.

PROJECT CONTROL TABLE

POINT NO.	NORTHING (Y)	EASTING (X)	ELEV (Z)	DESCRIPTION
36	6993455.2080	11894221.3000	9.84	MONUMENT
37	6931777.5530	11894614.7600	11.88	MONUMENT
100	6992946.8806	11894493.8204	13.54	PK NAIL
102	6993273.6310	11894528.1420	11.33	DRILL HOLE

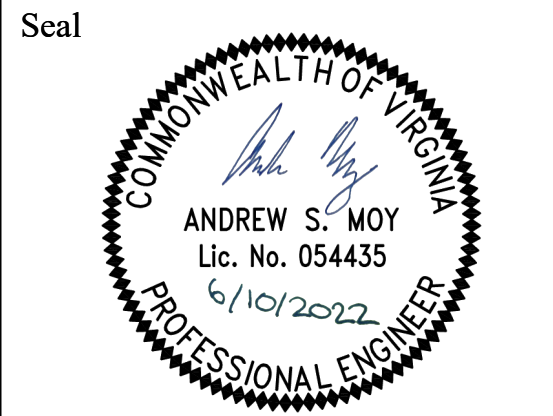
UTILITY AND AS-BUILT NOTES

- UNDERGROUND UTILITIES WERE DESIGNATED BY MID-ATLANTIC UTILITY LOCATING ON 6/25/2020 AND LOCATED BY ARLINGTON COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES ON 7/1/2020.
- WATER LINE, STORM SEWER AND SANITARY SEWER PIPE SIZES ARE SHOWN PER EXISTING RECORDS.



DEPARTMENT OF ENVIRONMENTAL SERVICES

Transportation Engineering and Operations Bureau
 2100 Clarendon Boulevard, Suite 900
 Arlington, VA 22201
 Phone: 703.228.3344
 Fax: 703.228.3719



APPROVALS	DATE
<i>Andrew S. Moy</i> TRAFFIC SIGNAL ENGINEER	08/19/2022
<i>Andrew S. Moy</i> TRAFFIC ENGINEERING MANAGER	08/24/2022
<i>Andrew S. Moy</i> WATER, SEWER, STREETS BUREAU CHIEF	9/1/22
<i>Andrew S. Moy</i> TE&O BUREAU CHIEF	08/26/2022
<i>Donna M. Leach</i> TRANSPORTATION DIRECTOR	08/29/2022

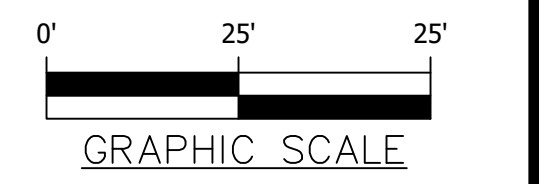
Revisions	Date

EXISTING CONDITIONS PLAN
S. GLEBE ROAD
INTERSECTION IMPROVEMENTS
AT S. EADS STREET

DESIGNED: -
 DRAWN: KM
 CHECKED: MJA
 MISS UTILITY TRANSMITTAL #: xxx
 FILENAME: T08S-148-03-Existing_Conditions.dwg
 PATH: Orders\T0_010_GlebeEads\cadd\Sheets

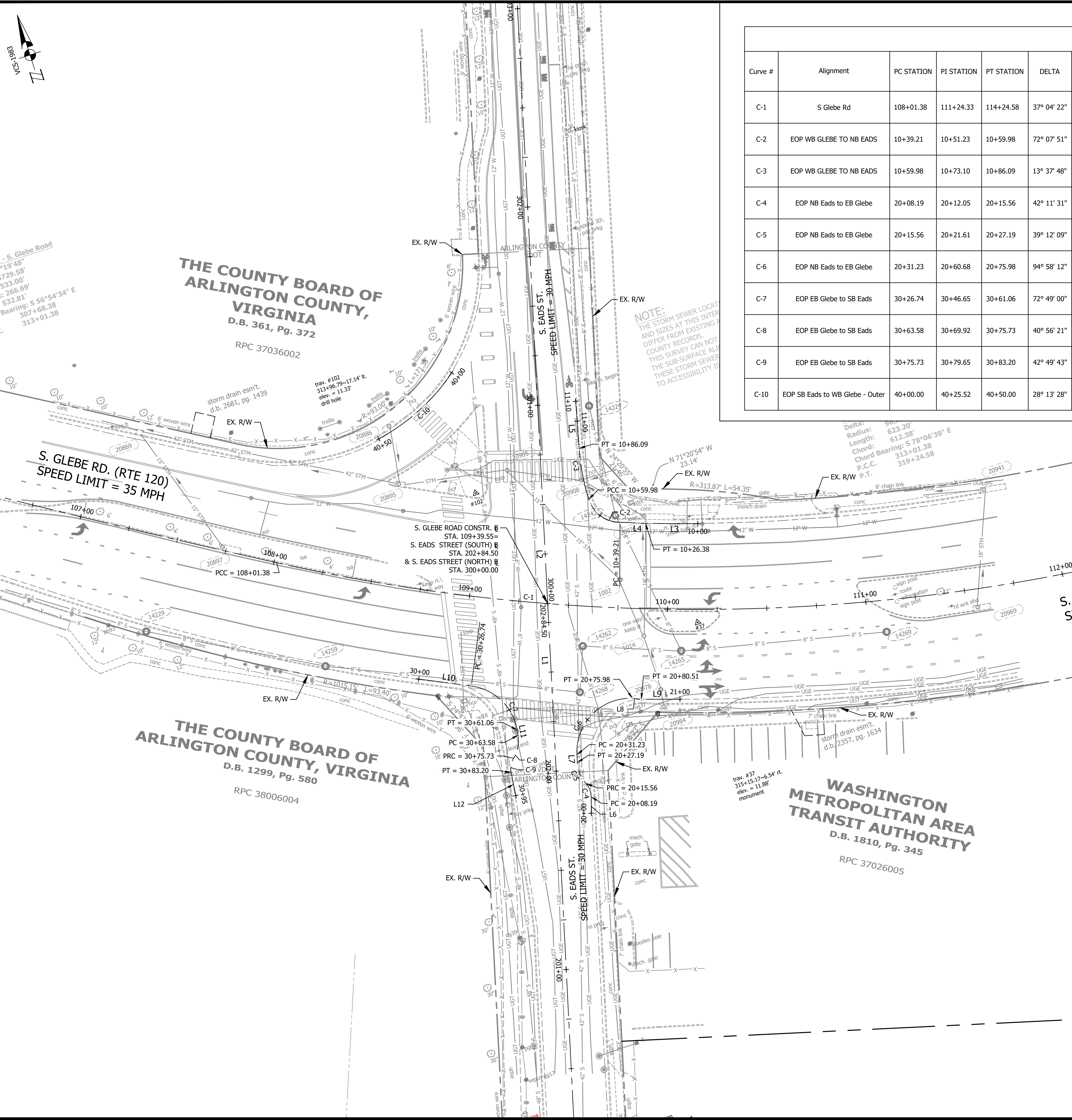
PLOTTED: June 06, 2022
 PLOTTED BY: kmita

SCALE: Hor.: 1"=25'



SHEET 3 of 13A

DESIGNED BY: RUMMEL, KLEPPER, & KAHL, LLP, ANDREW MOY, PE (703-246-0028) DATE: JULY 2020
 SURVEYED BY: ARLINGTON COUNTY GOV., DES
 PROJECT MANAGER: ANDREW HAYES, PE, PT OE (571-243-1120) DATE: JULY 2020
 SURVEYED BY: ARLINGTON COUNTY GOV., DES



Alignment Curve Table

Curve #	Alignment	PC STATION	PI STATION	PT STATION	DELTA	DEGREE	TANGENT	RADIUS	EXTERNAL	CHORD	LENGTH	MID. ORD.	BEARING BACK BEARING AHEAD	NORTHING PC PI PT	EASTING PC PI PT
C-1	S Glebe Rd	108+01.38	111+24.33	114+24.58	37° 04' 22"	5° 56' 56"	322.95'	963.15'	52.70'	612.38'	623.20'	49.97'	S59° 34' 28"E N83° 21' 10"W	6993270.7909 6993107.2455 6993144.6287	1189421.9483 11894700.4208 11895021.1956
C-2	EOP WB GLEBE TO NB EADS	10+39.21	10+51.23	10+59.98	72° 07' 51"	347° 14' 50"	12.02'	16.50'	3.91'	19.43'	20.77'	3.16'	N72° 07' 27"W N0° 00' 24"E	6993237.5707 6993241.2593 6993253.2760	11894592.8571 11894581.4205 11894581.4219
C-3	EOP WB GLEBE TO NB EADS	10+59.98	10+73.10	10+86.09	13° 37' 48"	52° 12' 55"	13.11'	109.73'	0.78'	26.04'	26.10'	0.78'	N0° 00' 24"E N13° 38' 12"E	6993253.2760 6993266.3897 6993279.1337	11894581.4219 11894581.4234 11894584.5152
C-4	EOP NB Eads to EB Glebe	20+08.19	20+12.05	20+15.56	42° 11' 31"	572° 05' 52"	3.86'	10.00'	0.72'	7.20'	7.36'	0.67'	N17° 46' 34"E N24° 24' 58"W	6993110.2033 6993113.8769 6993117.3898	11894536.8898 11894538.0676 11894536.4729
C-5	EOP NB Eads to EB Glebe	20+15.56	20+21.61	20+27.19	39° 12' 09"	337° 02' 02"	6.05'	17.00'	1.05'	11.41'	11.63'	0.99'	N24° 24' 57"W N14° 47' 11"E	6993117.3898 6993122.9022 6993128.7555	11894536.4729 11894533.9705 11894535.5156
C-6	EOP NB Eads to EB Glebe	20+31.23	20+60.68	20+75.98	94° 58' 12"	212° 12' 24"	29.45'	27.00'	12.95'	39.80'	44.75'	8.75'	N14° 47' 11"E S70° 14' 36"E	6993132.6631 6993161.1377 6993151.1829	11894536.5470 11894544.0631 11894571.7795
C-7	EOP EB Glebe to SB Eads	30+26.74	30+46.65	30+61.06	72° 49' 00"	212° 12' 24"	19.91'	27.00'	6.55'	32.05'	34.31'	5.27'	S64° 45' 54"E S8° 03' 05"W	6993181.7907 6993173.3015 6993153.5857	11894496.4314 11894514.4433 11894511.6543
C-8	EOP EB Glebe to SB Eads	30+63.58	30+69.92	30+75.73	40° 56' 21"	337° 02' 02"	6.35'	17.00'	1.15'	11.89'	12.15'	1.07'	S8° 03' 05"W S48° 59' 26"W	6993151.0881 6993144.8048 6993140.6409	11894511.3010 11894510.4122 11894505.6237
C-9	EOP EB Glebe to SB Eads	30+75.73	30+79.65	30+83.20	42° 49' 43"	572° 57' 28"	3.92'	10.00'	0.74'	7.30'	7.47'	0.69'	S48° 59' 26"W S6° 09' 44"W	6993140.6409 6993138.0674 6993134.1683	11894505.6237 11894502.6643 11894502.2433
C-10	EOP SB Eads to WB Glebe - Outer	40+00.00	40+25.52	40+50.00	28° 13' 28"	56° 26' 57"	25.52'	101.50'	3.16'	49.50'	50.00'	3.06'	S51° 31' 57"W S79° 45' 25"W	6993335.0113 6993319.1372 6993314.5994	11894535.0277 11894515.0480 11894489.9366

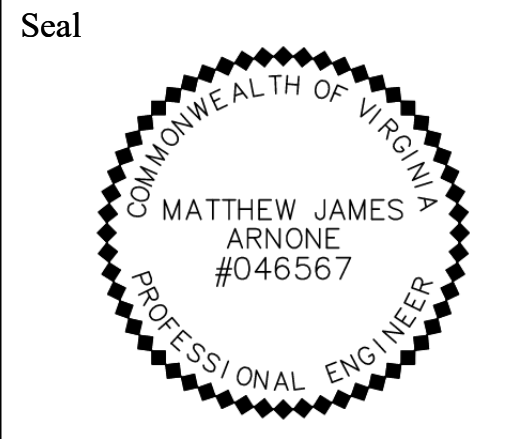
NOTE:
 THE STORM SEWER LOCATIONS AND SIZES AT THIS INTERSECTION DIFFER FROM EXISTING COUNTY RECORDS. THIS SURVEY CAN NOT VERIFY THESE STORM SEWER TO ACCESSIBILITY IS

Alignment Line Table

Line #	Alignment	Bearing	Begin Station	End Station	Begin Station NORTHING EASTING	End Station NORTHING EASTING
L1	S Eads St (South)	N 14° 50' 22" E	200+00.00	202+84.50	6992934.58 11894472.83	6993209.59 11894545.69
L2	S Eads St (North)	N 14° 50' 22" E	300+00.00	305+00.00	6993209.59 11894545.69	6993692.91 11894673.75
L3	EOP WB GLEBE TO NB EADS	N 71° 52' 04" W	10+00.00	10+26.38	6993224.88 11894629.95	6993233.09 11894604.88
L4	EOP WB GLEBE TO NB EADS	N 69° 32' 27" W	10+26.38	10+39.21	6993233.09 11894604.88	6993237.57 11894592.86
L5	EOP WB GLEBE TO NB EADS	N 13° 38' 12" E	10+86.09	11+10.00	6993279.13 11894584.52	6993302.37 11894590.15
L6	EOP NB Eads to EB Glebe	N 17° 15' 03" E	20+00.00	20+08.19	6993102.38 11894534.46	6993110.20 11894536.89
L7	EOP NB Eads to EB Glebe	N 14° 47' 11" E	20+27.19	20+31.23	6993128.76 11894535.52	6993132.66 11894536.55
L8	EOP NB Eads to EB Glebe	S 66° 08' 07" E	20+75.98	20+80.51	6993151.18 11894571.78	6993149.35 11894575.92
L9	EOP NB Eads to EB Glebe	S 72° 20' 57" E	20+80.51	21+00.00	6993149.35 11894575.92	6993143.44 11894594.49
L10	EOP EB Glebe to SB Eads	S 64° 45' 54" E	30+00.00	30+26.74	6993193.19 11894472.24	6993181.79 11894496.43
L11	EOP EB Glebe to SB Eads	S 8° 03' 05" W	30+61.06	30+63.58	6993153.59 11894511.65	6993151.09 11894511.30
L12	EOP EB Glebe to SB Eads	S 6° 17' 14" W	30+83.20	30+95.00	6993134.17 11894502.24	6993122.44 11894500.95



DEPARTMENT OF ENVIRONMENTAL SERVICES
 Transportation Engineering and Operations Bureau
 2100 Clarendon Boulevard, Suite 900
 Arlington, VA 22201
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 Fax: 703.228.3719



APPROVALS

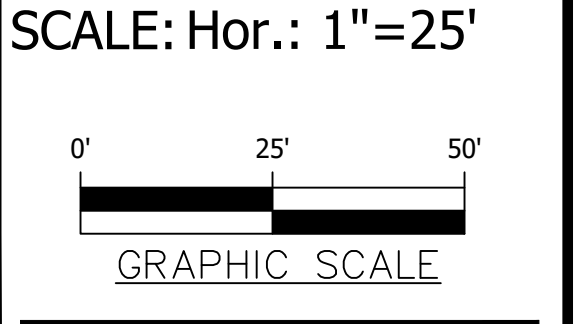
Name	Date
Matthew James Arnone	08/19/2022
Matthew James Arnone	08/24/2022
Matthew James Arnone	9/1/22
Matthew James Arnone	08/26/2022
Matthew James Arnone	08/29/2022

Revisions

Revisions	Date

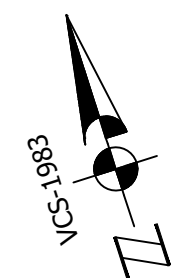
GEOMETRIC CONTROL PLAN
S. GLEBE ROAD INTERSECTION IMPROVEMENTS AT S. EADS STREET

DESIGNED: KM
 DRAWN: KM
 CHECKED: MJA
 MISS UTILITY TRANSMITTAL #: xxx
 FILENAME: T085-148-04-Geometric Control Plan.dwg
 PATH: Orders\T0_010_GlebeEads\CADD\Sheets
 PLOTTED: June 06, 2022
 PLOTTED BY: kmitta

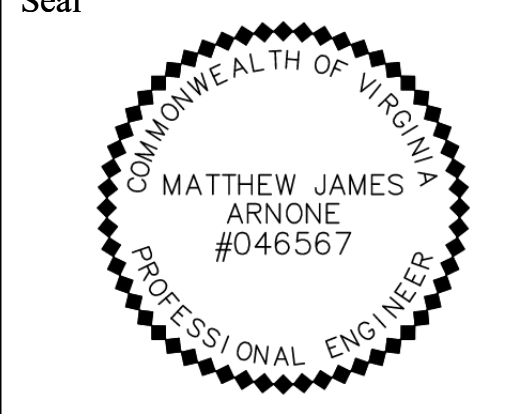


DESIGNED BY: RUMMEL, KLEPPER, & KAHL, LLP, ANDREW MOY, PE (703-246-0028)
 SURVEYED BY: ARLINGTON COUNTY GOV., DES DATE: JULY 2020

PROJECT MANAGER: ANDREW HAYES, PE, PT/DE (571-243-1120)
 SURVEYED BY: ARLINGTON COUNTY GOV., DES DATE: JULY 2020



DEPARTMENT OF ENVIRONMENTAL SERVICES
 Transportation Engineering and Operations Bureau
 2100 Clarendon Boulevard, Suite 900
 Arlington, VA 22201
 Phone: 703.228.3344
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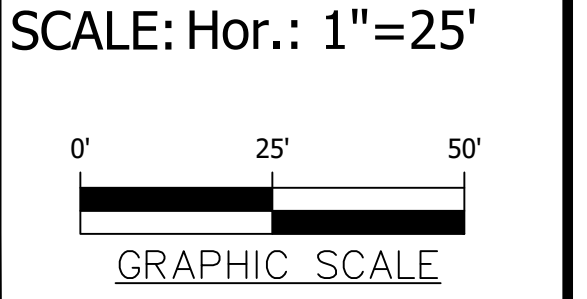


APPROVALS	DATE
<i>Andrew Moy</i> TRAFFIC SIGNAL ENGINEER	08/19/2022
<i>Paul Nicks</i> TRAFFIC ENGINEERING MANAGER	08/24/2022
<i>John</i> WATER, SEWER, STREETS BUREAU CHIEF	9/1/22
<i>John</i> TE&O BUREAU CHIEF	08/26/2022
<i>Dennis M. Leach</i> TRANSPORTATION DIRECTOR	08/29/2022

Revisions	Date

DEMOLITION PLAN
S. GLEBE ROAD
INTERSECTION IMPROVEMENTS
AT S. EADS STREET

DESIGNED: KM
 DRAWN: KM
 CHECKED: MJA
 MISS UTILITY TRANSMITTAL #: xxx
 FILENAME: T085-148-05-Demo_Plan.dwg
 PATH: Orders\T0_010_GlebeEads\cadd\Sheets
 PLOTTED: June 06, 2022
 PLOTTED BY: marnone

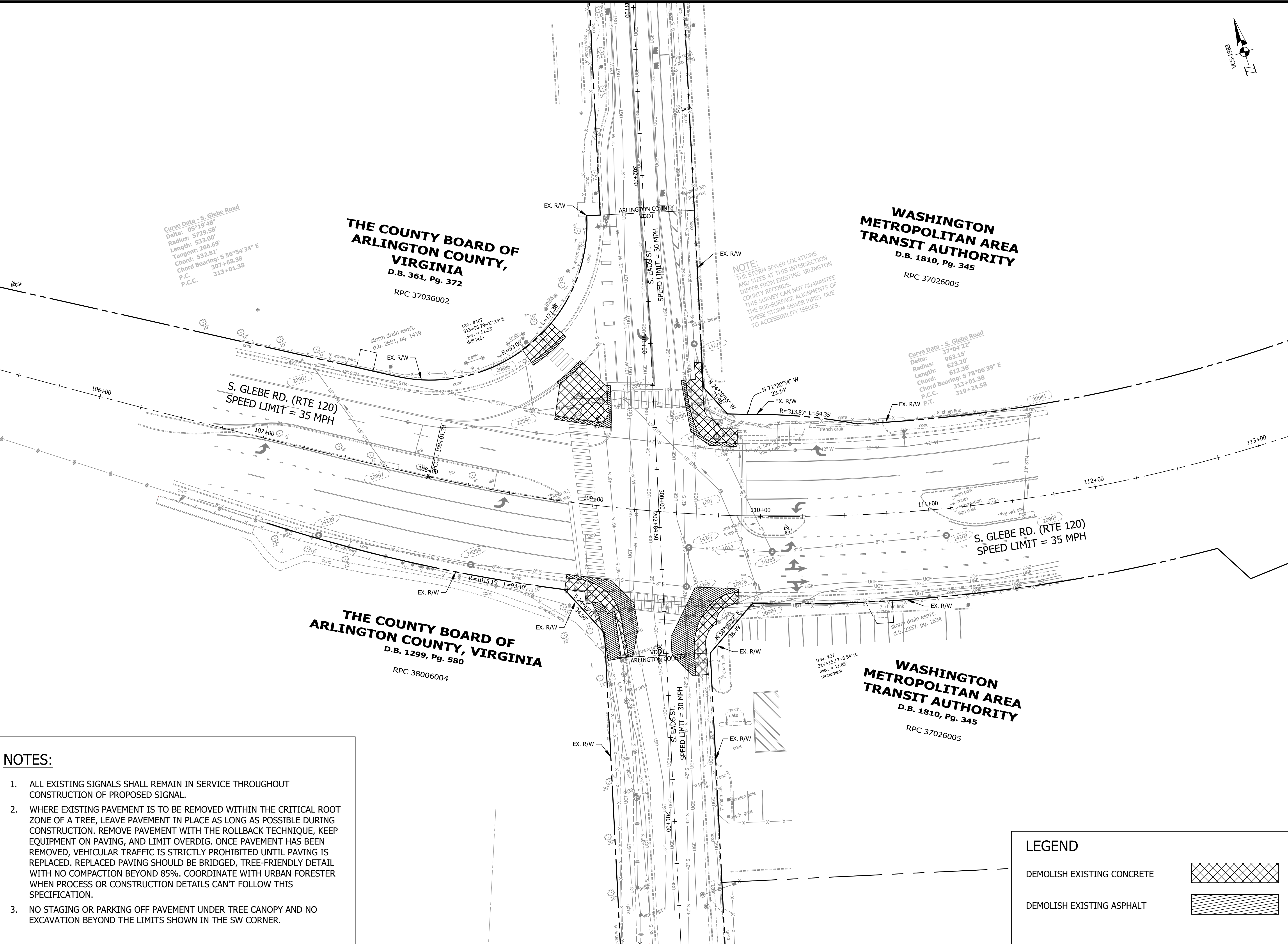


- NOTES:**
- ALL EXISTING SIGNALS SHALL REMAIN IN SERVICE THROUGHOUT CONSTRUCTION OF PROPOSED SIGNAL.
 - WHERE EXISTING PAVEMENT IS TO BE REMOVED WITHIN THE CRITICAL ROOT ZONE OF A TREE, LEAVE PAVEMENT IN PLACE AS LONG AS POSSIBLE DURING CONSTRUCTION. REMOVE PAVEMENT WITH THE ROLLBACK TECHNIQUE, KEEP EQUIPMENT ON PAVING, AND LIMIT OVERDIG. ONCE PAVEMENT HAS BEEN REMOVED, VEHICULAR TRAFFIC IS STRICTLY PROHIBITED UNTIL PAVING IS REPLACED. REPLACED PAVING SHOULD BE BRIDGED, TREE-FRIENDLY DETAIL WITH NO COMPACTION BEYOND 85%. COORDINATE WITH URBAN FORESTER WHEN PROCESS OR CONSTRUCTION DETAILS CAN'T FOLLOW THIS SPECIFICATION.
 - NO STAGING OR PARKING OFF PAVEMENT UNDER TREE CANOPY AND NO EXCAVATION BEYOND THE LIMITS SHOWN IN THE SW CORNER.

LEGEND

DEMOLISH EXISTING CONCRETE

DEMOLISH EXISTING ASPHALT



Curve Data - S. Glebe Road
 Delta: 05°19'48"
 Radius: 5729.58'
 Length: 533.09'
 Tangent: 532.81'
 Chord Bearing: S 56°54'34" E
 P.C.: 307+68.38
 P.C.C.: 313+01.38

THE COUNTY BOARD OF ARLINGTON COUNTY, VIRGINIA
 D.B. 361, Pg. 372
 RPC 37036002

THE COUNTY BOARD OF ARLINGTON COUNTY, VIRGINIA
 D.B. 1299, Pg. 580
 RPC 38006004





WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
 D.B. 1810, Pg. 345
 RPC 37026005

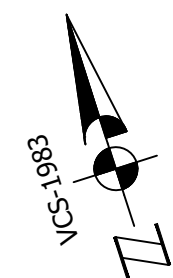
NOTE:
 THE STORM SEWER LOCATIONS AND SIZES AT THIS INTERSECTION DIFFER FROM EXISTING ARLINGTON COUNTY RECORDS. THIS SURVEY CAN NOT GUARANTEE THE SUB-SURFACE ALIGNMENTS OF THESE STORM SEWER PIPES, DUE TO ACCESSIBILITY ISSUES.

Curve Data - S. Glebe Road
 Delta: 37°04'22"
 Radius: 963.15'
 Length: 623.20'
 Tangent: 612.38'
 Chord Bearing: S 78°06'39" E
 P.C.: 313+01.38
 P.C.C.: 319+24.58

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
 D.B. 1810, Pg. 345
 RPC 37026005

CONSTRUCTION NOTES & LEGEND

- 1 NEW 6" CURB AND GUTTER (C-2) ARLINGTON COUNTY STANDARD (R-2.0)
 - 1A NEW 6" CURB & GUTTER (CG-6) VDOT ROAD & BRIDGE STANDARD (201.03)
 - 1B NEW 6" HEADER CURB (C-3) ARLINGTON COUNTY STANDARD (R-2.0)
 - 1C CURB & GUTTER TRANSITION FROM VDOT ST'D. TO ARL. CO. ST'D.
 - 1D NEW 6" CURB (CG-2) VDOT ROAD & BRIDGE STANDARD (201.01)
 - 1E NEW 4" CURB (CG-3) VDOT ROAD & BRIDGE STANDARD (201.02)
 - 2 NEW HANDICAP RAMP (CG-12A) VDOT ROAD & BRIDGE STANDARDS (204.02)
 - 2A NEW HANDICAP RAMP (CG-12B) VDOT ROAD & BRIDGE STANDARDS (204.03)
 - 3 NEW 4" CONCRETE SIDEWALK ARLINGTON COUNTY STANDARD (R-2.0)
 - 4 ADJUST EXISTING STORMWATER MANHOLE TO PROPOSED GRADE
-  ASPHALT - MILL & OVERLAY
 -  ASPHALT - FULL DEPTH
 -  CONCRETE
 -  LIMITS OF WORK



DEPARTMENT OF ENVIRONMENTAL SERVICES

Transportation Engineering and Operations Bureau
2100 Clarendon Boulevard, Suite 900
Arlington, VA 22201
Phone: 703.228.3344
Fax: 703.228.3719

Seal



Matthew Arnone
08-10-12

APPROVALS	DATE
<i>Matthew Arnone</i> TRAFFIC SIGNAL ENGINEER	08/19/2022
<i>John N. ...</i> TRAFFIC ENGINEERING MANAGER	08/24/2022
<i>...</i> WATER, SEWER, STREETS BUREAU CHIEF	9/1/22
<i>...</i> TE&O BUREAU CHIEF	08/26/2022
<i>Donna M. Leach</i> TRANSPORTATION DIRECTOR	08/29/2022

Revisions	Date

PLAN

S. GLEBE ROAD INTERSECTION IMPROVEMENTS AT S. EADS STREET

DESIGNED: MJA
DRAWN: KM
CHECKED: MJA
MISS UTILITY TRANSMITTAL #: xxx
FILENAME: T085-148-06-Plan.dwg
PATH: Orders\T0_010_GlebeEads\cadd\Sheets
PLOTTED: June 06, 2022
PLOTTED BY: kmitta

SCALE: Hor.: 1"=25'

DESIGNED BY: RUMMEL, KLEPPER, & KAHL, LLP, ANDREW MOY, PE (703-246-0028)
SURFACE UTILITY BY: ARLINGTON COUNTY GOV., DES DATE: JULY 2020

PROJECT MANAGER: ANDREW HAYES, PE, PTOE (571-243-1120) DATE: JULY 2020
SURVEYED BY: ARLINGTON COUNTY GOV., DES

THE COUNTY BOARD OF ARLINGTON COUNTY, VIRGINIA
D.B. 361, Pg. 372
RPC 37036002

THE COUNTY BOARD OF ARLINGTON COUNTY, VIRGINIA
D.B. 1299, Pg. 580
RPC 38006004

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
D.B. 1810, Pg. 345
RPC 37026005

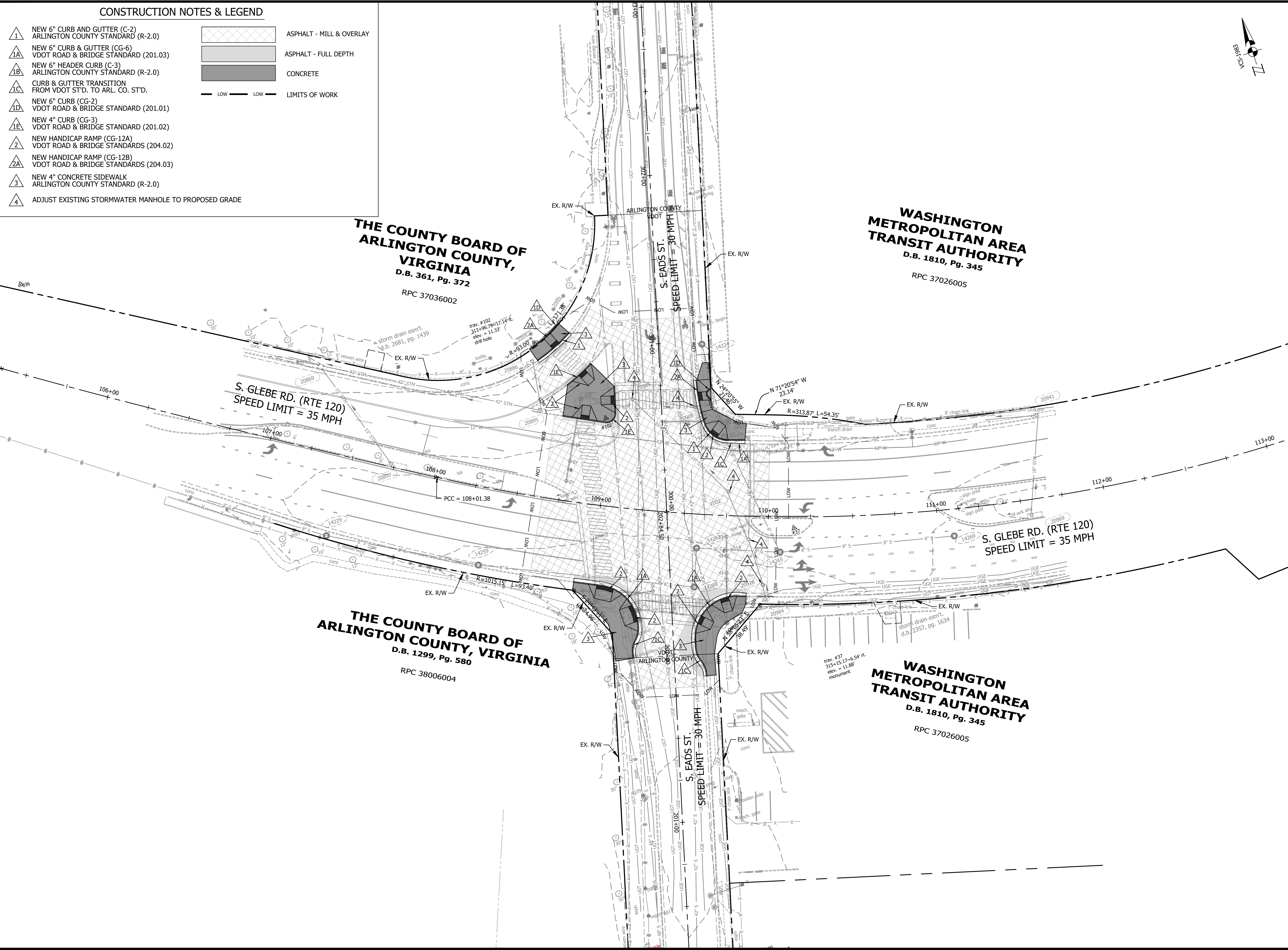
WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
D.B. 1810, Pg. 345
RPC 37026005

S. GLEBE RD. (RTE 120)
SPEED LIMIT = 35 MPH

S. GLEBE RD. (RTE 120)
SPEED LIMIT = 35 MPH

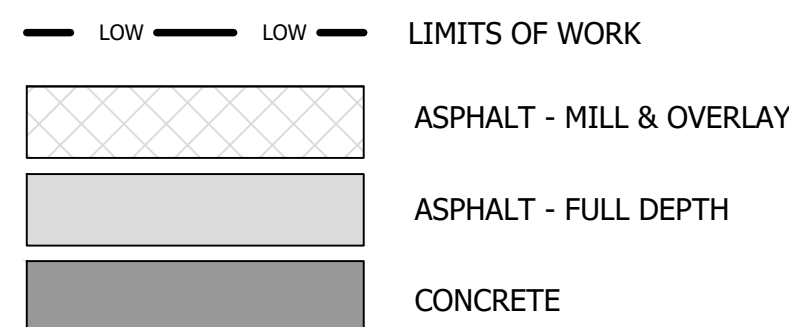
S. EADS ST.
SPEED LIMIT = 30 MPH

S. EADS ST.
SPEED LIMIT = 30 MPH



CONSTRUCTION NOTES & LEGEND

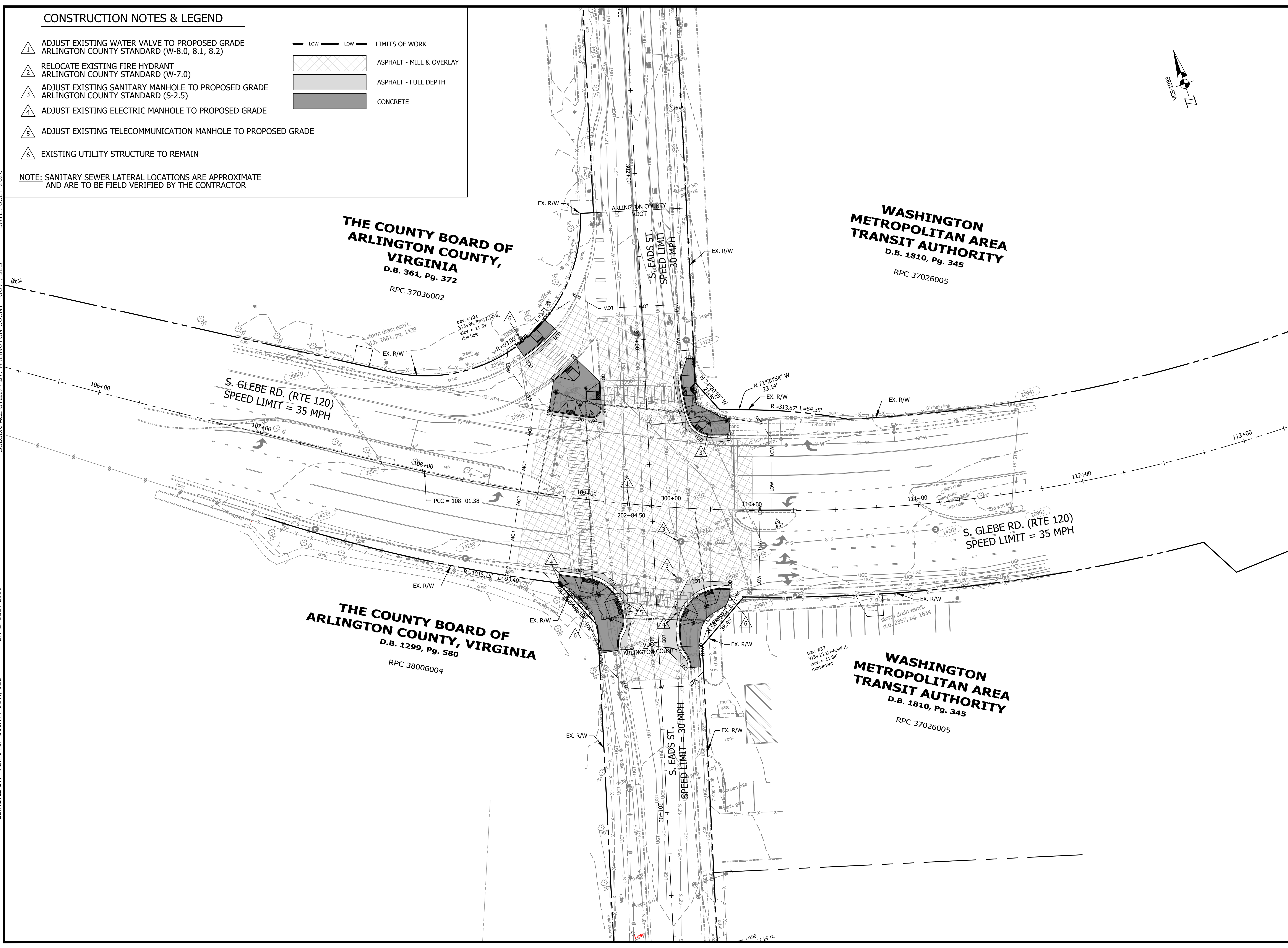
- 1 ADJUST EXISTING WATER VALVE TO PROPOSED GRADE ARLINGTON COUNTY STANDARD (W-8.0, 8.1, 8.2)
- 2 RELOCATE EXISTING FIRE HYDRANT ARLINGTON COUNTY STANDARD (W-7.0)
- 3 ADJUST EXISTING SANITARY MANHOLE TO PROPOSED GRADE ARLINGTON COUNTY STANDARD (S-2.5)
- 4 ADJUST EXISTING ELECTRIC MANHOLE TO PROPOSED GRADE
- 5 ADJUST EXISTING TELECOMMUNICATION MANHOLE TO PROPOSED GRADE
- 6 EXISTING UTILITY STRUCTURE TO REMAIN



NOTE: SANITARY SEWER LATERAL LOCATIONS ARE APPROXIMATE AND ARE TO BE FIELD VERIFIED BY THE CONTRACTOR

DESIGNED BY: RUMMEL, KLEPPER, & KAHL, LLP, ANDREW MOY, PE (703-246-0028) SURFACE UTILITY BY: ARLINGTON COUNTY GOV., DES DATE: JULY 2020

PROJECT MANAGER: ANDREW HAYES, PE, PTOE (571-243-1120) DATE: JULY 2020 SURVEYED BY: ARLINGTON COUNTY GOV., DES

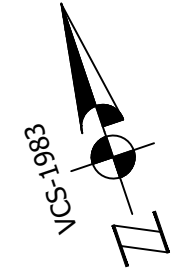


THE COUNTY BOARD OF ARLINGTON COUNTY, VIRGINIA
D.B. 361, Pg. 372
RPC 37036002

THE COUNTY BOARD OF ARLINGTON COUNTY, VIRGINIA
D.B. 1299, Pg. 580
RPC 38006004

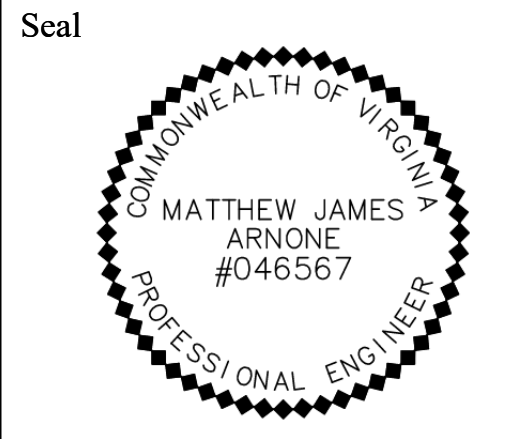
WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
D.B. 1810, Pg. 345
RPC 37026005

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
D.B. 1810, Pg. 345
RPC 37026005



DEPARTMENT OF ENVIRONMENTAL SERVICES

Transportation Engineering and Operations Bureau
2100 Clarendon Boulevard, Suite 900
Arlington, VA 22201
Phone: 703.228.3344
Fax: 703.228.3719



APPROVALS	DATE
<i>[Signature]</i> TRAFFIC SIGNAL ENGINEER	08/19/2022
<i>[Signature]</i> TRAFFIC ENGINEERING MANAGER	08/24/2022
<i>[Signature]</i> WATER, SEWER, STREETS BUREAU CHIEF	9/1/22
<i>[Signature]</i> TE&O BUREAU CHIEF	08/26/2022
<i>[Signature]</i> TRANSPORTATION DIRECTOR	08/29/2022

Revisions	Date

UTILITY PLAN
S. GLEBE ROAD
INTERSECTION IMPROVEMENTS
AT S. EADS STREET

DESIGNED: JMK
DRAWN: JMK
CHECKED: ASM
MISS UTILITY TRANSMITTAL #: xxx
FILENAME: T085-148-06A-Utility Plan.dwg
PATH: Orders\T0_010_GlebeEads\cadd\Sheets
PLOTTED: June 06, 2022
PLOTTED BY: kmita

SCALE: Hor.: 1"=25'

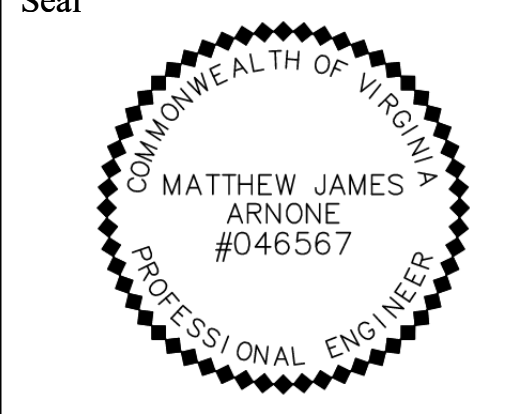
DESIGNED BY: RUMMEL, KLEPPER, & KAHL, LLP, ANDREW MOY, PE (703-246-0028)
 SURVEYED BY: ARLINGTON COUNTY GOV., DES DATE: JULY 2020

PROJECT MANAGER: ANDREW HAYES, PE, PTOE (571-243-1120)
 SURVEYED BY: ARLINGTON COUNTY GOV., DES DATE: JULY 2020



DEPARTMENT OF ENVIRONMENTAL SERVICES

Transportation Engineering and Operations Bureau
 2100 Clarendon Boulevard, Suite 900
 Arlington, VA 22201
 Phone: 703.228.3344
 Fax: 703.228.3719



APPROVALS	DATE
<i>Matthew James Arnone</i> TRAFFIC SIGNAL ENGINEER	08/19/2022
<i>John N. ...</i> TRAFFIC ENGINEERING MANAGER	08/24/2022
<i>...</i> WATER, SEWER, STREETS BUREAU CHIEF	9/1/22
<i>...</i> TE&O BUREAU CHIEF	08/26/2022
<i>Dennis M. Leach</i> TRANSPORTATION DIRECTOR	08/29/2022

Revisions	Date

CURB RAMP DETAILS
S. GLEBE ROAD
INTERSECTION IMPROVEMENTS
AT S. EADS STREET

DESIGNED: MJA
 DRAWN: KM
 CHECKED: MJA
 MISS UTILITY TRANSMITTAL #: xxx

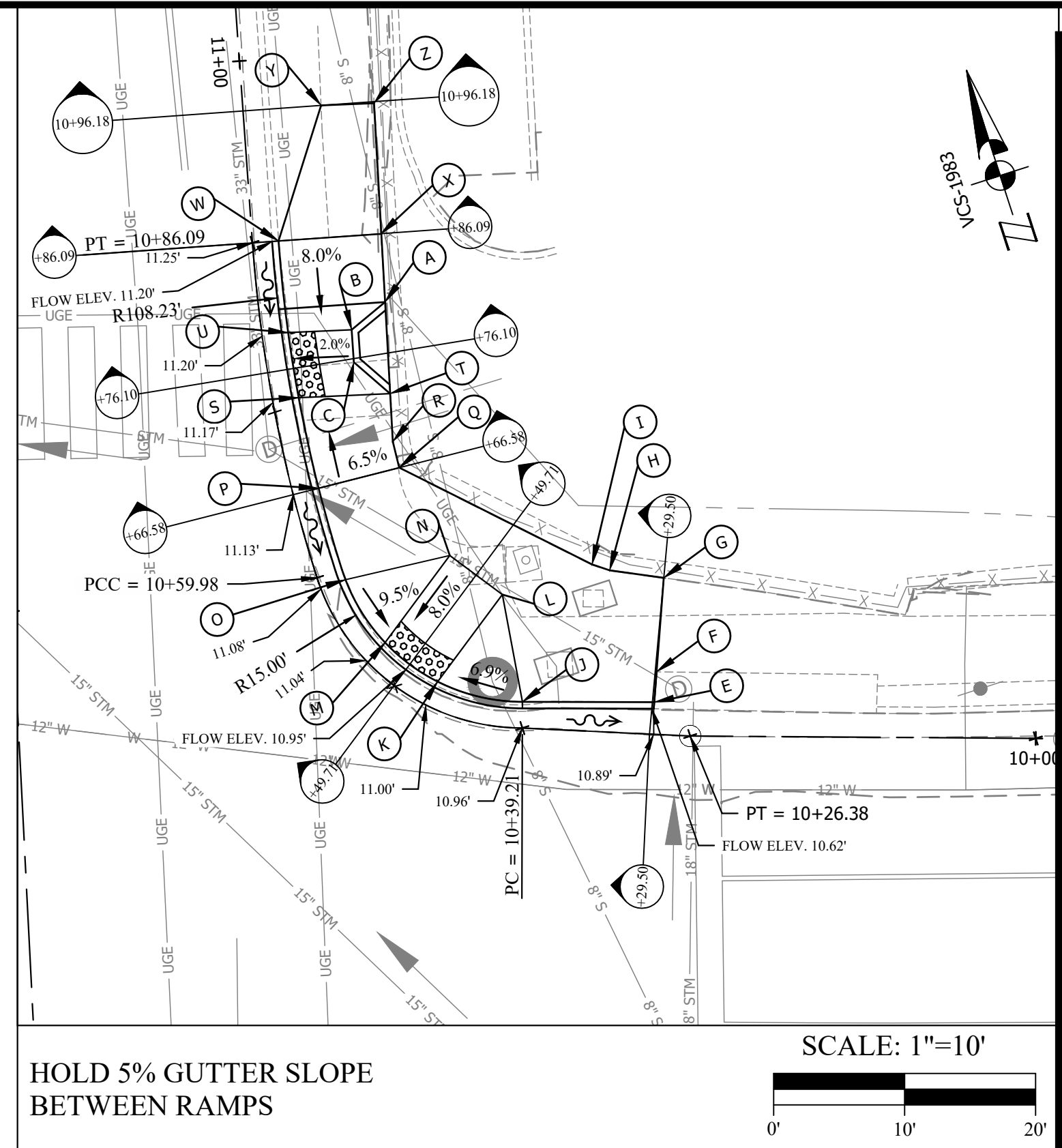
FILENAME: T08S-148-07-Curb_Details.dwg
 PATH: Orders\T0_010_GlebeEads\cadd\Sheets

PLOTTED: June 06, 2022
 PLOTTED BY: kmitta

SCALE: AS SHOWN

DETAIL 7-1	STA.	OFFSET	WALK ELEV.	TOC ELEV.
A	10+80.35	9.64' RT	11.50'	12.00'
B	10+78.44	6.83' RT	11.23'	11.73'
C	10+75.81	6.62' RT	11.21'	11.71'
D	NOT USED			
E	10+29.25	2.45' RT	11.30' - MATCH EXIST.	-
F	10+29.18	4.77' RT	11.38' - MATCH EXIST.	-
G	10+28.97	11.96' RT	11.85' - MATCH EXIST.	-
H	10+33.13	12.34' RT	11.76'	-
I	10+34.49	12.73' RT	11.74'	-
J	10+39.21	2.00' RT	11.39'	-
K	10+46.85	2.00' RT	10.93'	-
L	10+43.19	10.00' RT	11.57'	-
M	10+52.57	2.00' RT	10.97'	-
N	10+56.22	10.00' RT	11.61'	-
O	10+59.07	2.00' RT	11.51'	-
P	10+66.58	2.00' RT	11.56'	-
Q	10+66.58	8.35' RT	11.69'	-
R	10+68.81	8.35' RT	11.00'	-
S	10+73.80	2.00' RT	11.10'	-
T	10+72.74	8.91' RT	11.24'	11.74'
U	10+78.92	2.00' RT	11.13'	-
V	10+78.16	9.46' RT	11.28'	-
W	10+86.09	2.00' RT	11.68' - MATCH EXIST.	-
X	10+86.06	9.82' RT	11.84' - MATCH EXIST.	-
Y	10+96.18	5.97' RT	11.90' - MATCH EXIST.	-
Z	10+96.06	10.02' RT	12.02' - MATCH EXIST.	-

ELEVATION TABLE - WB S. GLEBE RD RTE. 120 / NB S. EADS ST.

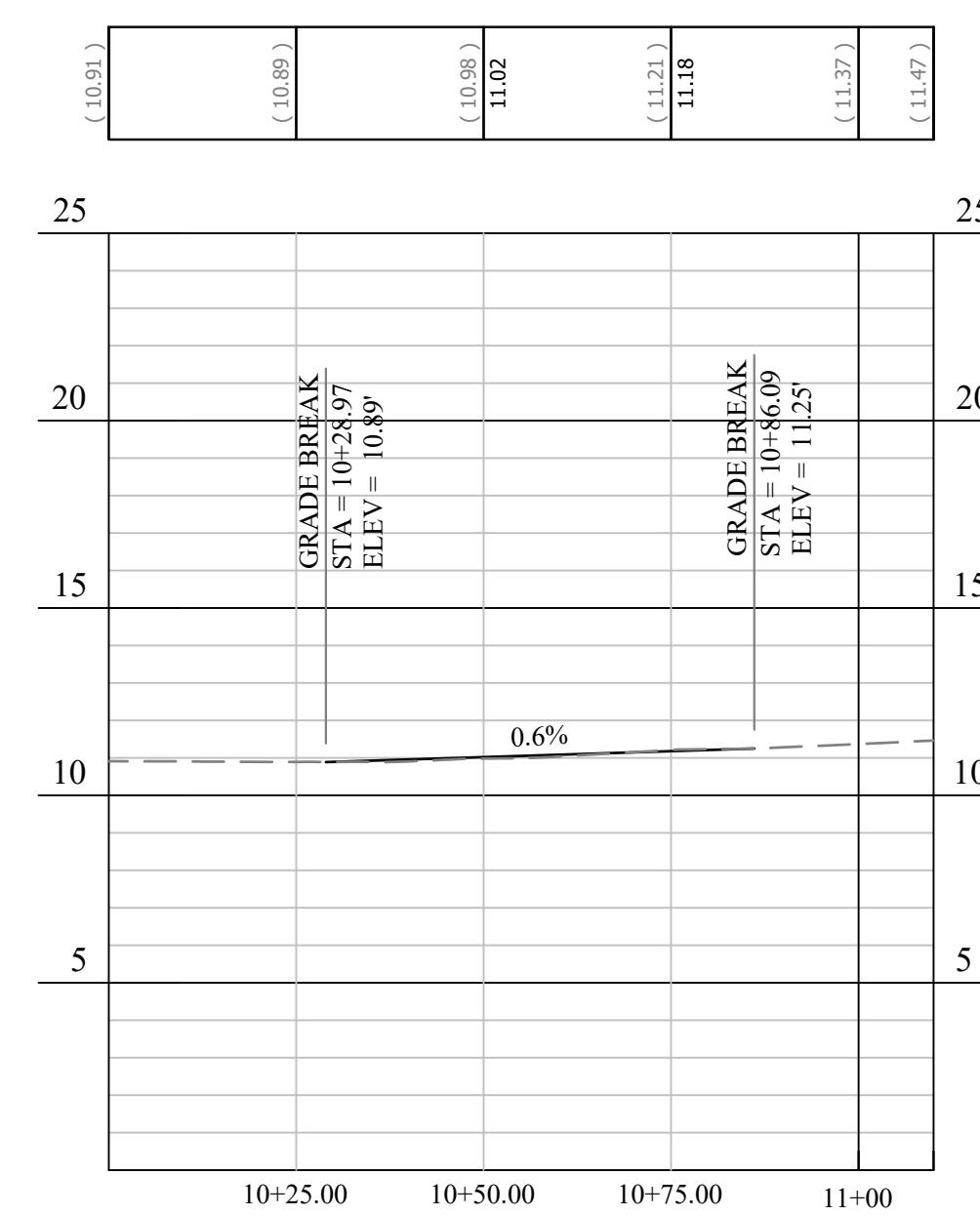


HOLD 5% GUTTER SLOPE BETWEEN RAMPS

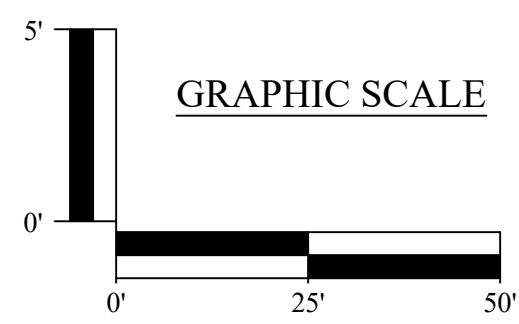
SCALE: 1"=10'

CG-12A & CG-12B - WB S. GLEBE RD RTE. 120 / NB S. EADS ST.

EOP PROFILE - WB S. GLEBE RD RTE. 120 / NB S. EADS ST.



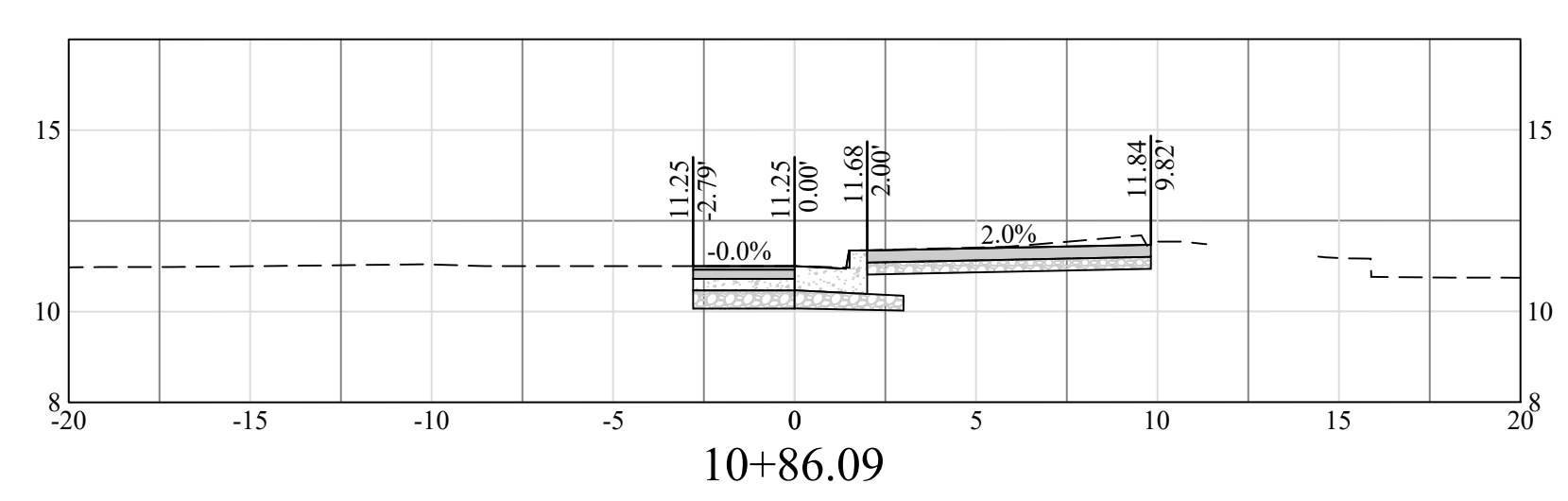
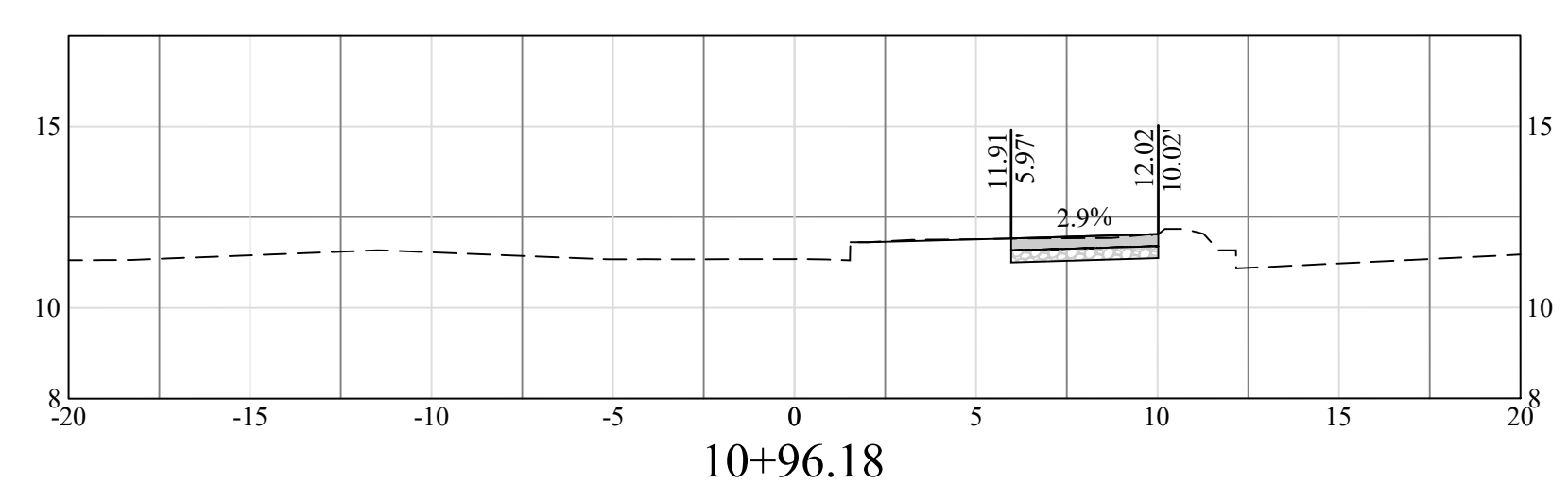
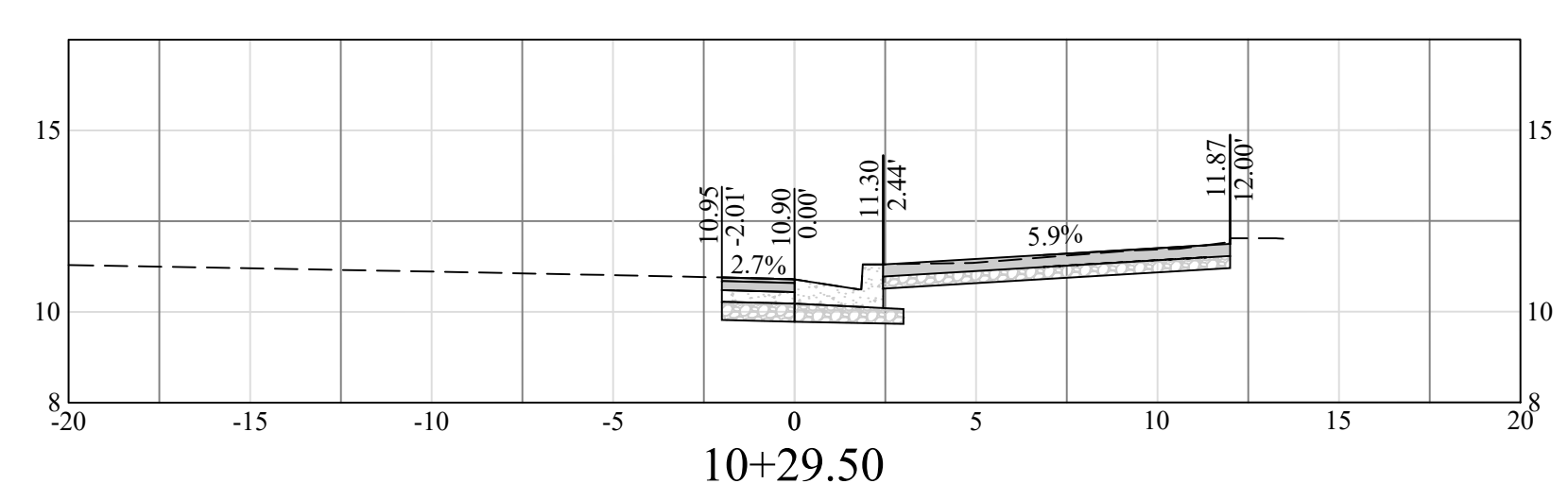
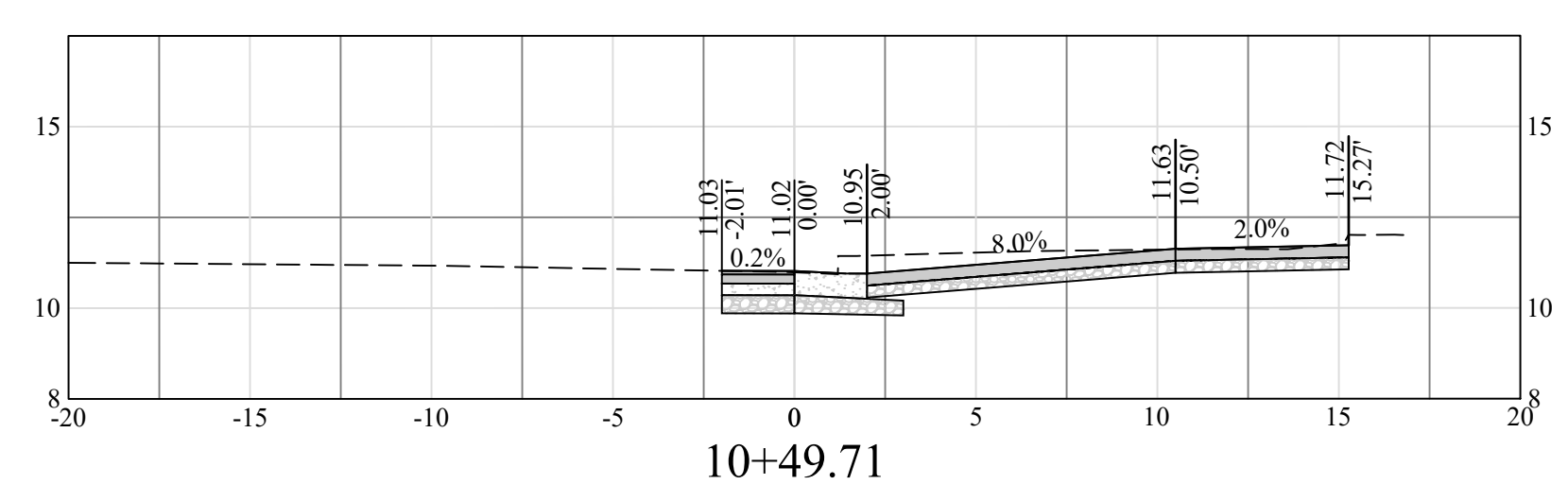
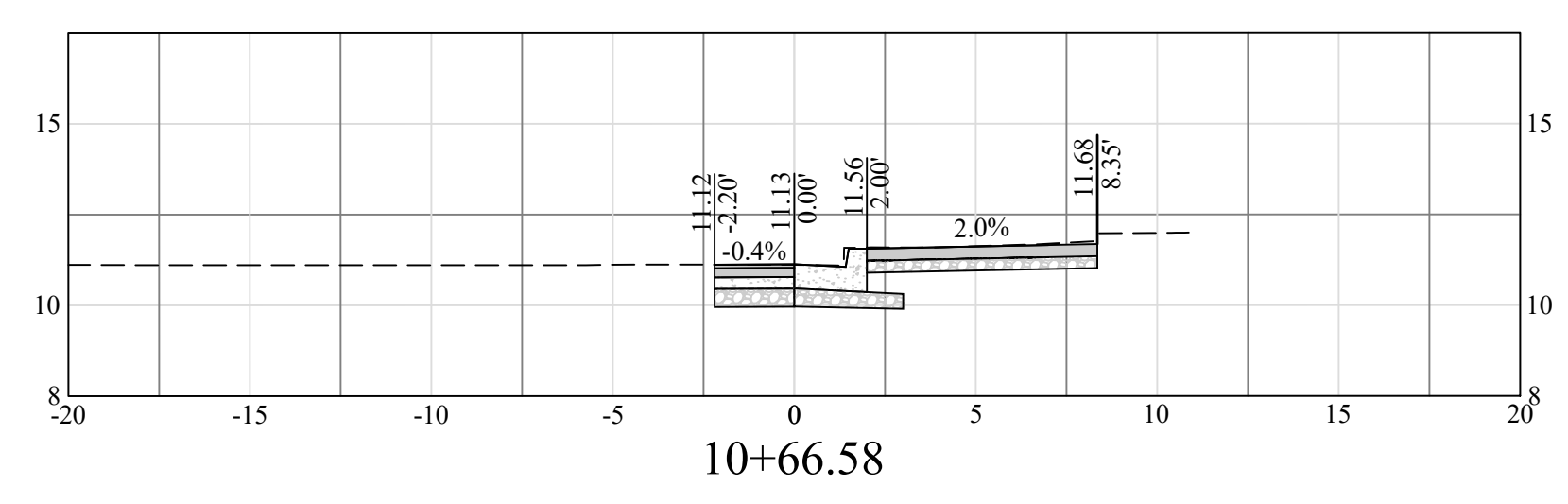
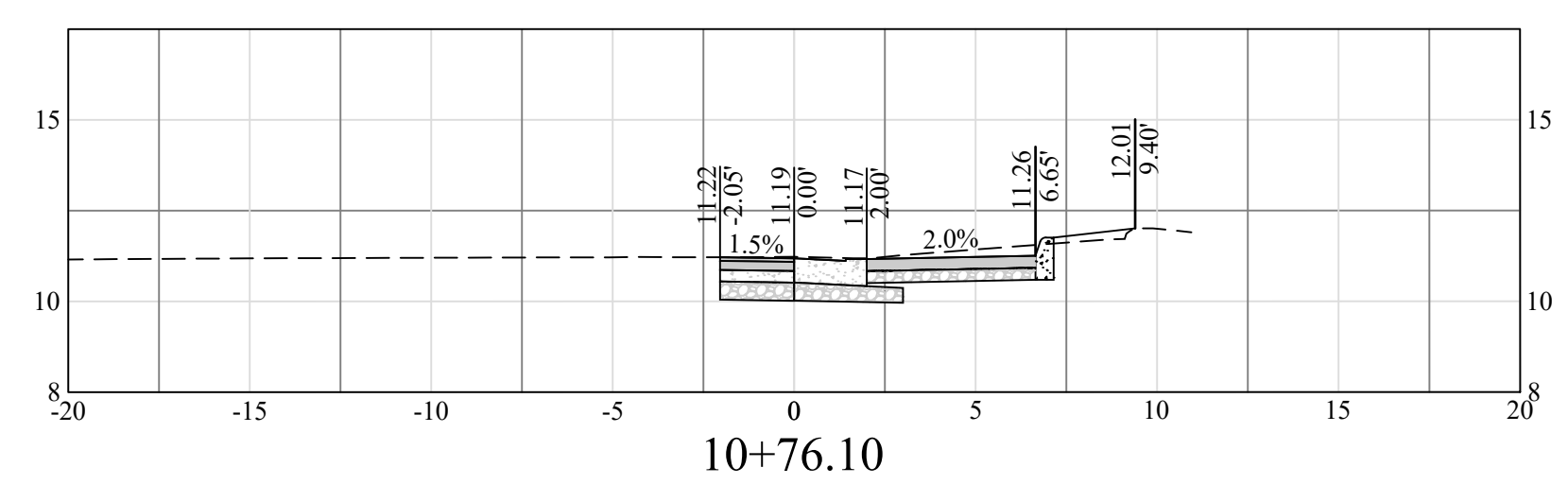
PROFILE VIEW
 Hor.: 1" = 25'
 Vert.: 1" = 5'



NOTES

- Station/Offset data is in reference to the associated EOP baseline unless otherwise noted
- Elevations along curb lines always indicate top of proposed curb elevations
- Proposed elevations based upon digital terrain model interpolation, surveyed by Arlington County
- Contractor to field verify elevations prior to setting grade

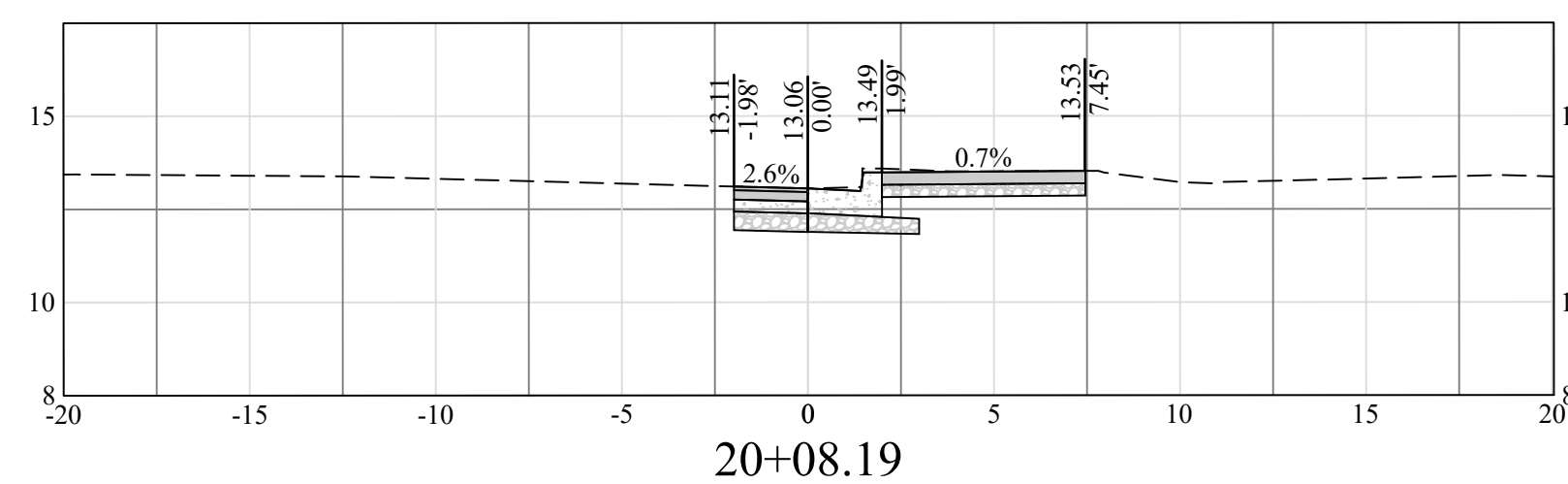
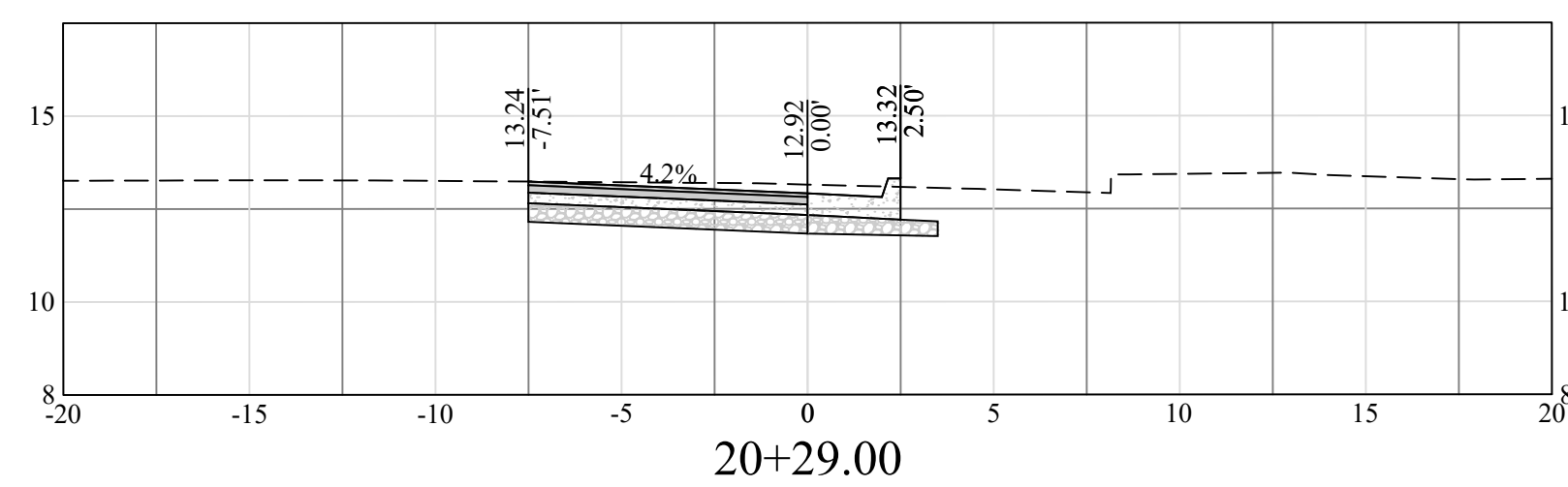
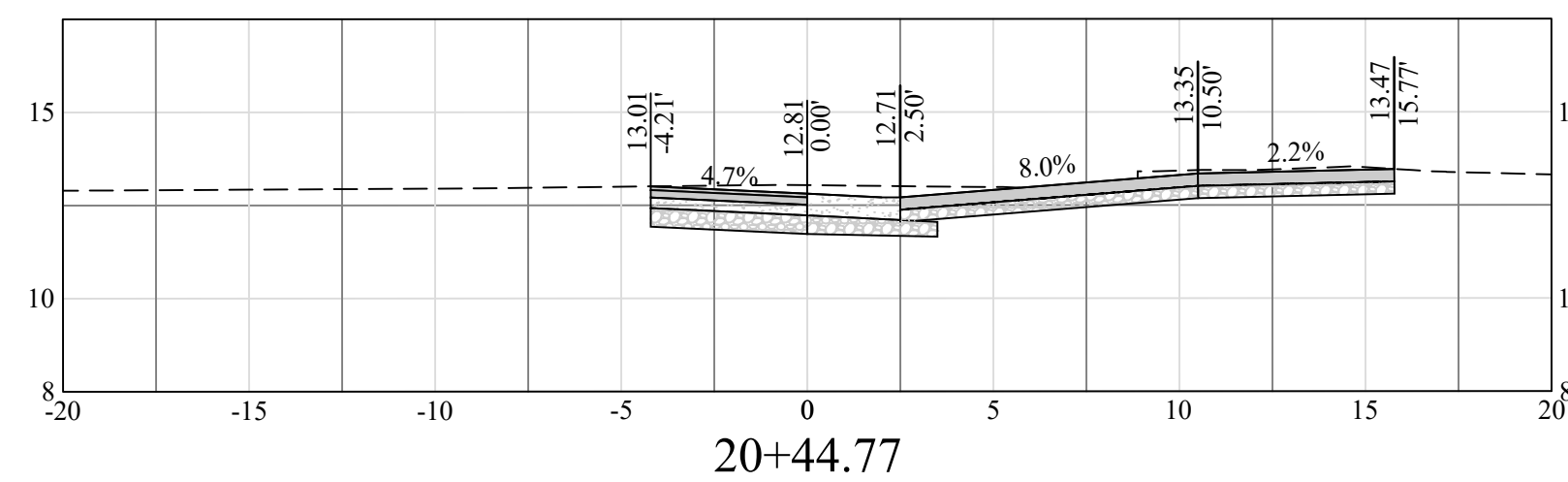
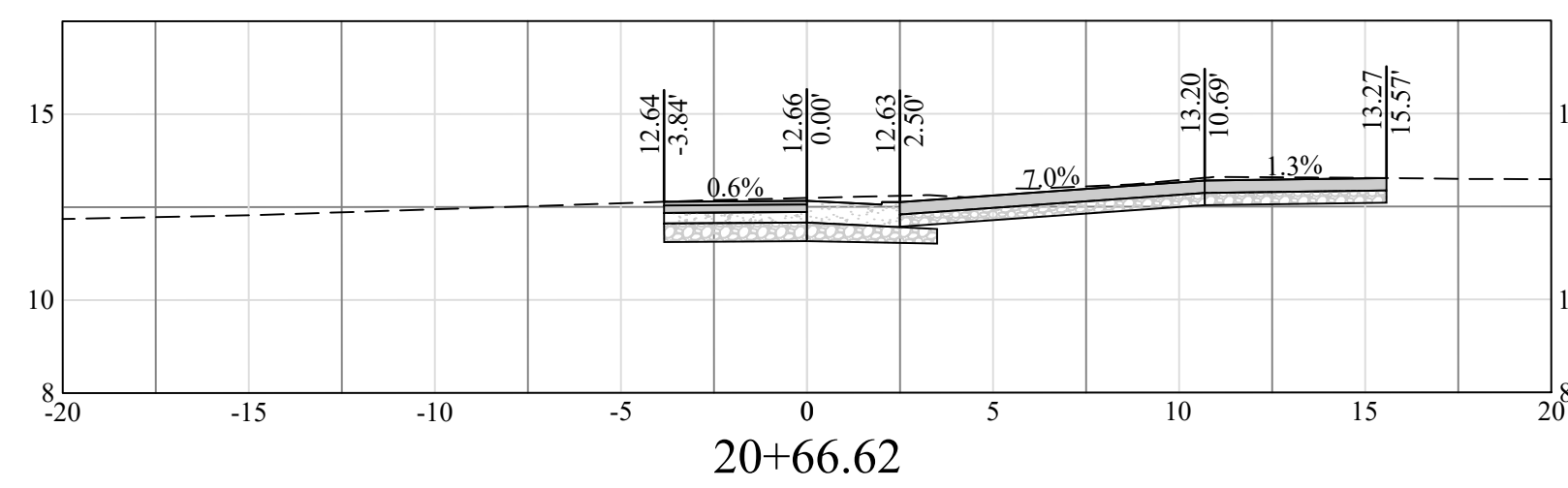
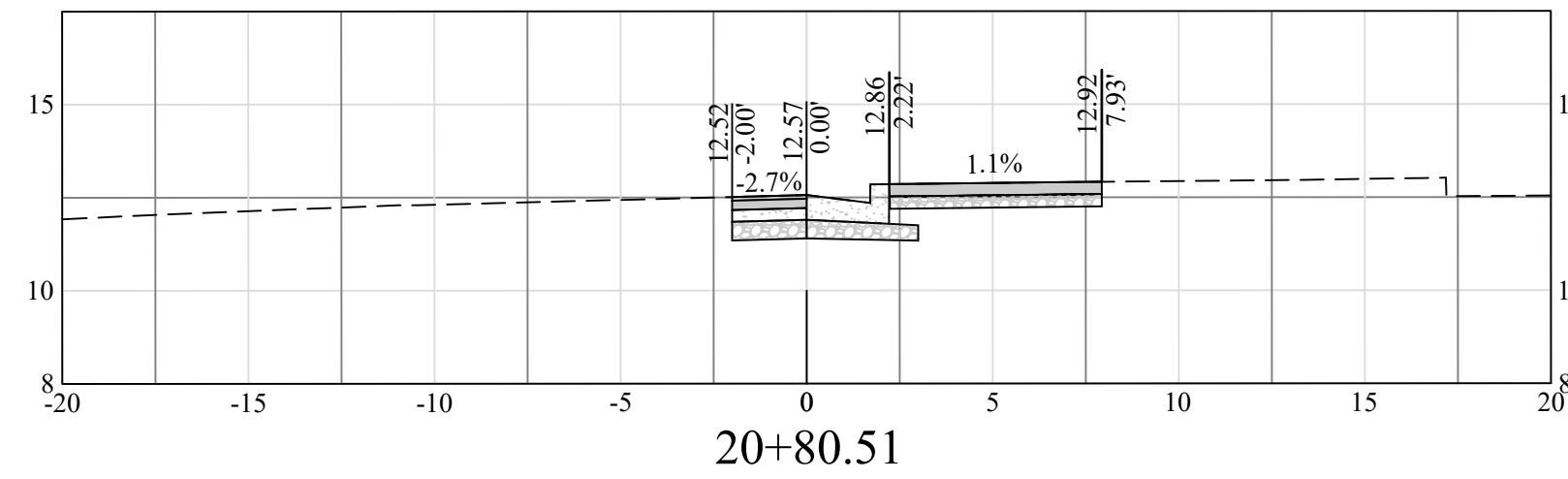
CROSS-SECTIONS - WB S. GLEBE RD. RTE 120 / NB S. EADS ST.
 Scale: 1" = 5'



DESIGNED BY: RUMMEL, KLEPPER, & KAHL, LLP, ANDREW MOY, PE (703-246-0028)
 SURVEYED BY: ARLINGTON COUNTY GOV., DES DATE: JULY 2020

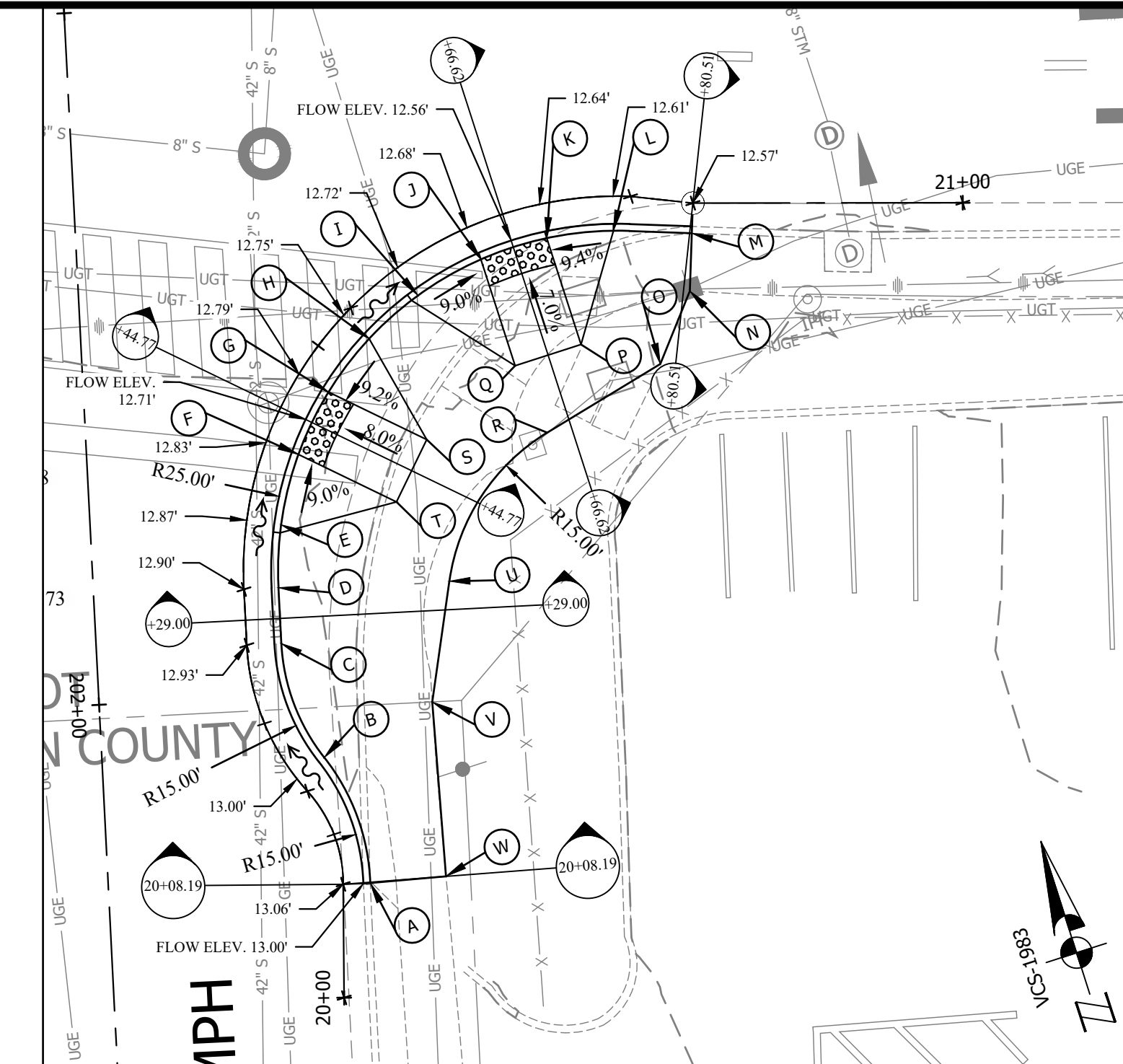
PROJECT MANAGER: ANDREW HAYES, PE, PTOE (571-243-1120)
 SURVEYED BY: ARLINGTON COUNTY GOV., DES DATE: JULY 2020

CROSS-SECTIONS - NB S. EADS ST /
 EB S. GLEBE RD
 Scale: 1" = 5'



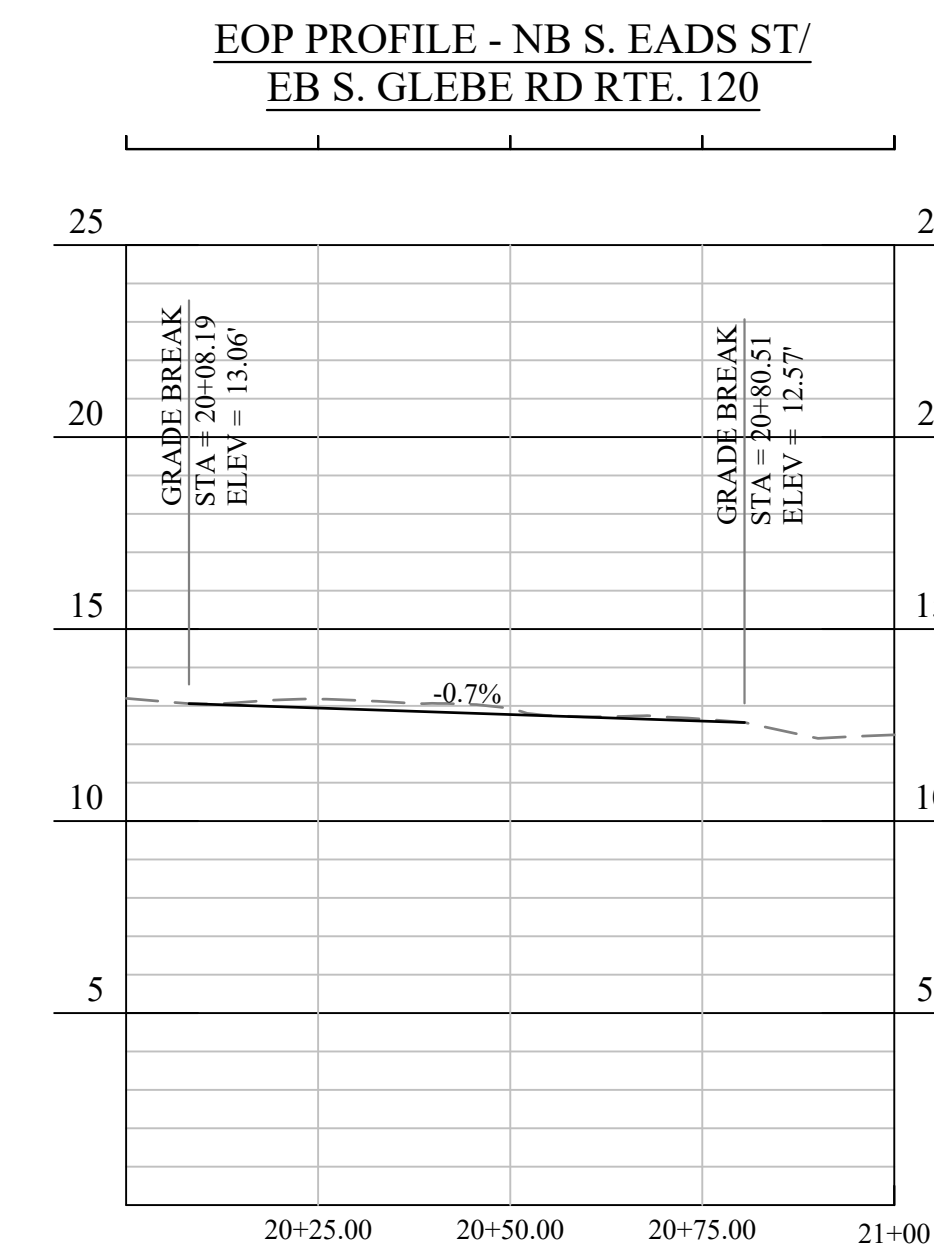
DETAIL 7-2	STA.	OFFSET	WALK ELEV.
A	20+08.27	1.95' RT	13.60' - MATCH EXIST.
B	20+16.71	2.50' RT	13.40'
C	20+27.19	2.50' RT	13.33'
D	20+31.23	2.50' RT	13.30'
E	20+35.59	2.50' RT	13.27'
F	20+42.01	2.50' RT	12.73'
G	20+47.53	2.50' RT	12.69'
H	20+52.88	2.50' RT	13.15'
I	20+57.43	2.50' RT	13.12'
J	20+63.86	2.50' RT	12.58'
K	20+69.38	2.50' RT	12.54'
L	20+74.72	2.50' RT	13.01'
M	20+80.51	2.55' RT	12.85' - MATCH EXIST.
N	20+80.51	6.94' RT	12.89' - MATCH EXIST.
O	20+79.41	11.80' RT	12.98'
P	20+70.72	10.50' RT	13.10'
Q	20+62.61	10.61' RT	13.14'
R	20+62.29	15.85' RT	13.22'
S	20+48.83	10.31' RT	13.33'
T	20+40.71	10.31' RT	13.37'
U	20+31.05	14.84' RT	13.44'
V	20+14.95	11.04' RT	13.46'
W	20+08.52	7.43' RT	13.53' - MATCH EXIST.

ELEVATION TABLE - NB S. EADS ST /
 EB S. GLEBE RD RTE. 120

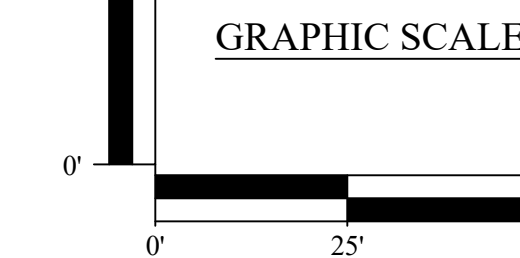


TRANSITION GUTTER SLOPE FROM
 EXISTING TO 5% BETWEEN POINTS A & B.
 HOLD 5% GUTTER SLOPE TO POINT K

CG-12A - NB S. EADS ST /
 EB S. GLEBE RD RTE. 120
 Scale: 1" = 10'



PROFILE VIEW
 Hor.: 1" = 25'
 Vert.: 1" = 5'



NOTES

1. Station/Offset data is in reference to the associated EOP baseline unless otherwise noted
2. Elevations along curb lines always indicate top of proposed curb elevations
3. Proposed elevations based upon digital terrain model interpolation, surveyed by Arlington County
4. Contractor to field verify elevations prior to setting grade



DEPARTMENT OF
 ENVIRONMENTAL SERVICES

Transportation Engineering and
 Operations Bureau
 2100 Clarendon Boulevard, Suite 900
 Arlington, VA 22201
 Phone: 703.228.3344
 Fax: 703.228.3719

Seal



APPROVALS DATE

TRAFFIC SIGNAL ENGINEER 08/19/2022
 TRAFFIC ENGINEERING MANAGER 08/24/2022
 WATER, SEWER, STREETS BUREAU CHIEF 9/1/22
 T&O BUREAU CHIEF 08/26/2022
 TRANSPORTATION DIRECTOR 08/29/2022

Revisions Date

CURB RAMP DETAILS
 S. GLEBE ROAD
 INTERSECTION IMPROVEMENTS
 AT S. EADS STREET

DESIGNED: MJA
 DRAWN: KM
 CHECKED: MJA
 MISS UTILITY TRANSMITTAL #: xxx

FILENAME: T085-148-07-Curb_Details.dwg
 PATH: Orders\T0_010_GlebeEads\cadd\Sheets

PLOTTED: June 06, 2022
 PLOTTED BY: kmitta

SCALE: AS SHOWN

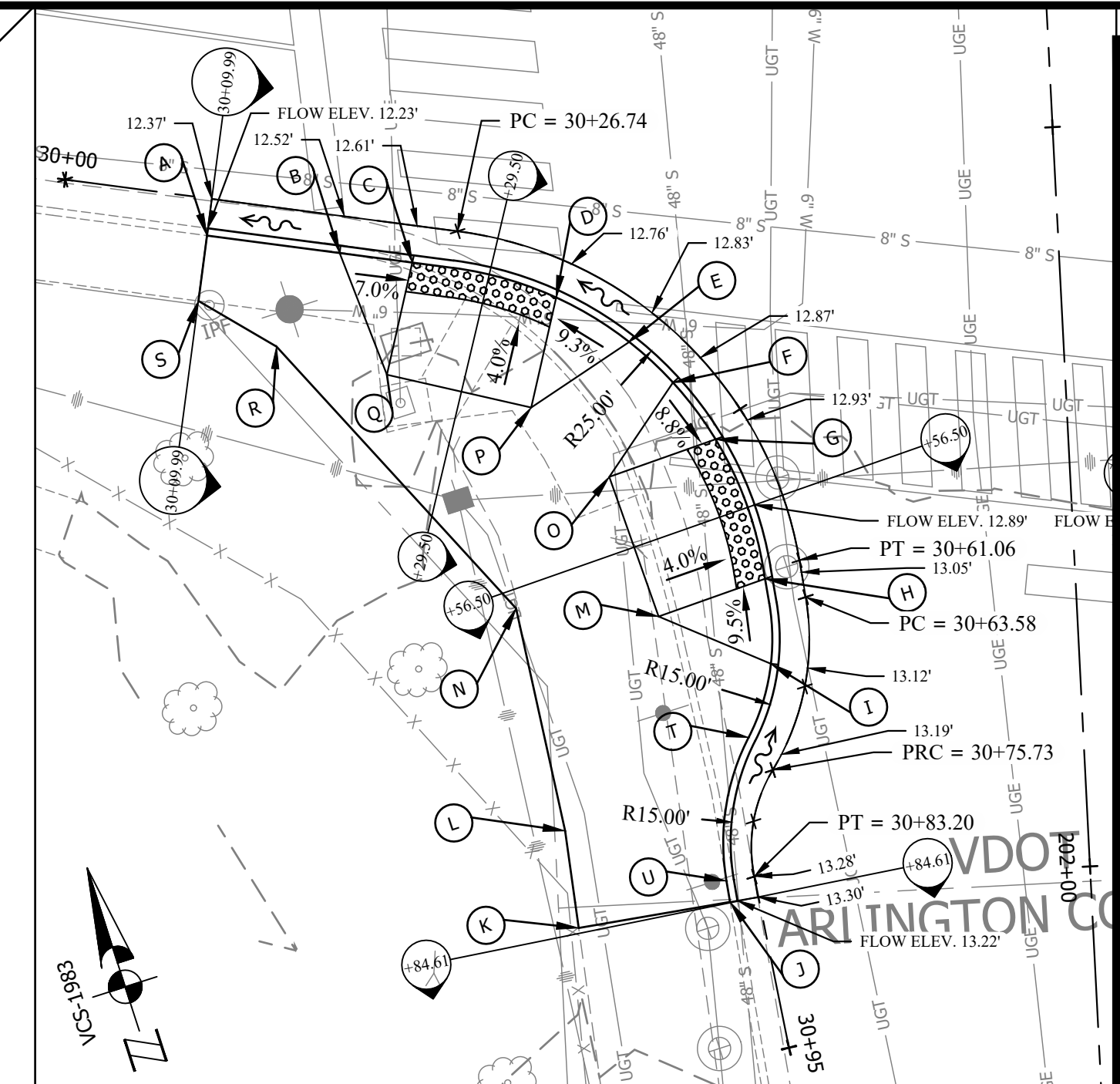
SHEET 7A of 13A

DESIGNED BY: RUMMEL, KLEPPER, & KAHL, LLP, ANDREW MOY, PE (703-246-0028)
 SURVEYED BY: ARLINGTON COUNTY GOV., DES DATE: JULY 2020

PROJECT MANAGER: ANDREW HAYES, PE, PT OE (571-243-1120)
 SURVEYED BY: ARLINGTON COUNTY GOV., DES DATE: JULY 2020

DETAIL 7-3	STA.	OFFSET	WALK ELEV.
A	30+09.99	2.50' RT	12.73' - MATCH EXIST.
B	30+19.03	2.50' RT	12.86'
C	30+24.00	2.50' RT	12.51'
D	30+34.78	2.50' RT	12.66'
E	30+41.15	2.50' RT	13.23'
F	30+45.61	2.50' RT	13.27'
G	30+50.89	2.50' RT	12.83'
H	30+61.90	2.50' RT	12.95'
I	30+68.01	2.50' RT	13.52'
J	30+84.61	1.90' RT	13.75' - MATCH EXIST.
K	30+84.62	12.28' RT	13.86' - MATCH EXIST.
L	30+80.70	12.60' RT	13.77'
M	30+63.20	10.01' RT	13.25'
N	30+60.99	19.41' RT	13.42'
O	30+48.44	9.88' RT	13.13'
P	30+37.23	9.88' RT	12.96'
Q	30+23.27	10.23' RT	12.81'
R	30+15.63	9.32' RT	12.77'
S	30+10.00	6.95' RT	12.74' - MATCH EXIST.
T	30+74.52	2.50' RT	13.59'
U	30+83.13	1.90' RT	13.70'

ELEVATION TABLE
 EB S. GLEBE RD RTE. 120/ SB S. EADS ST.

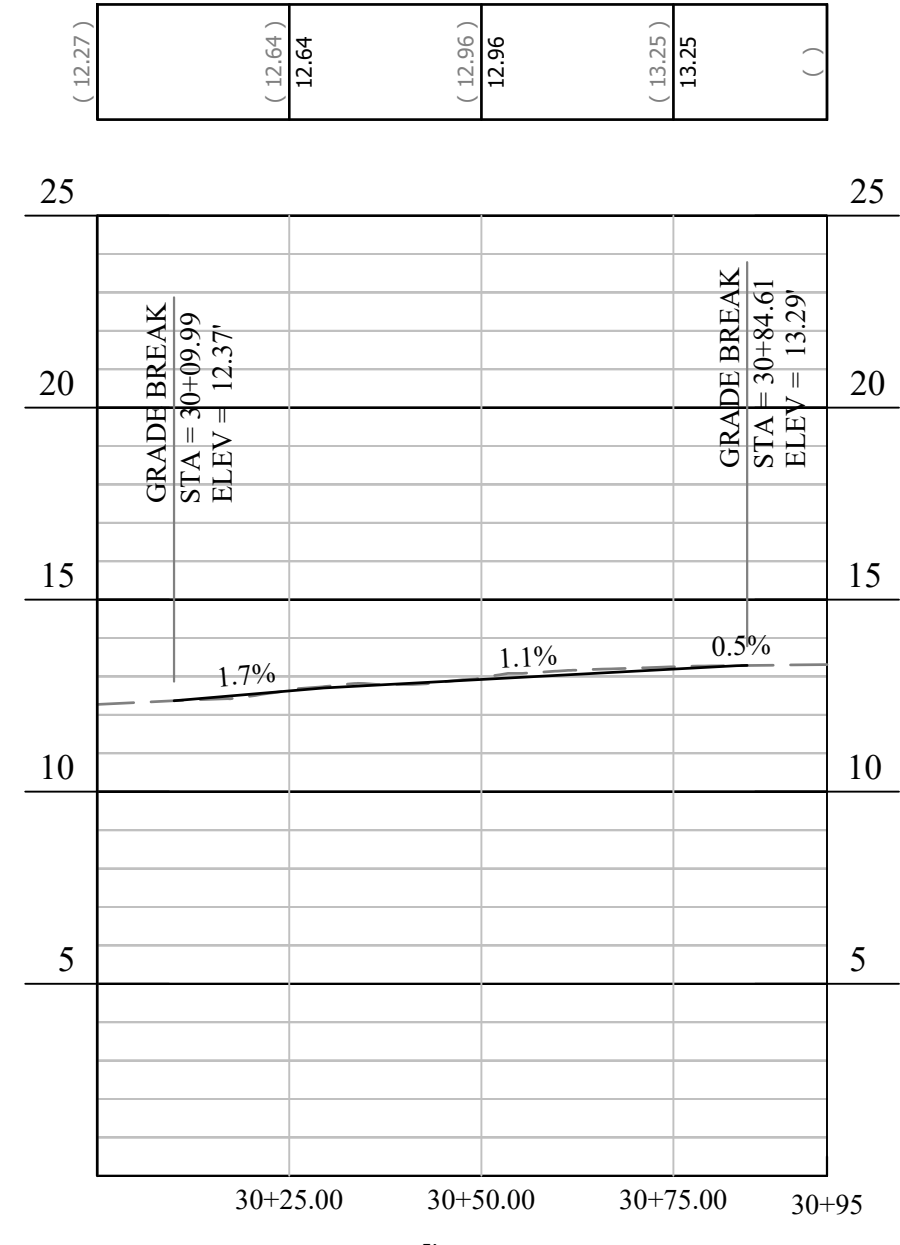


HOLD 5% GUTTER SLOPE BETWEEN POINTS C & T.
 TRANSITION GUTTER SLOPE FROM 5% TO EXISTING BETWEEN POINTS T & J

SCALE: 1"=10'

CG-12A - EB S. GLEBE RD RTE. 120/ SB S. EADS ST.
 Scale: 1" = 10'

EOP PROFILE - EB S. GLEBE RD RTE. 120/ SB S. EADS ST.



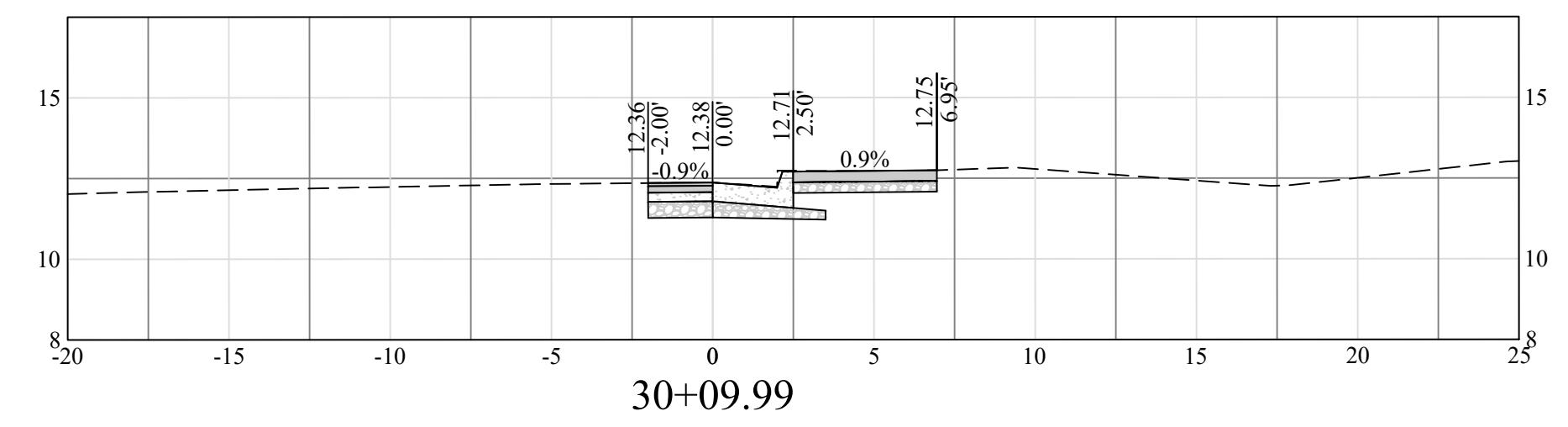
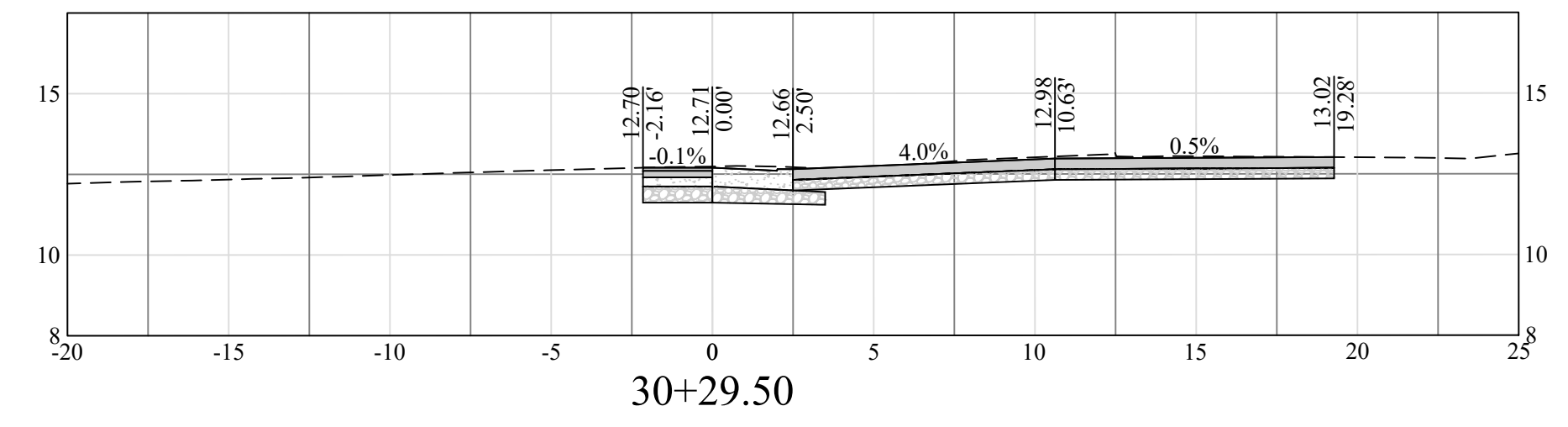
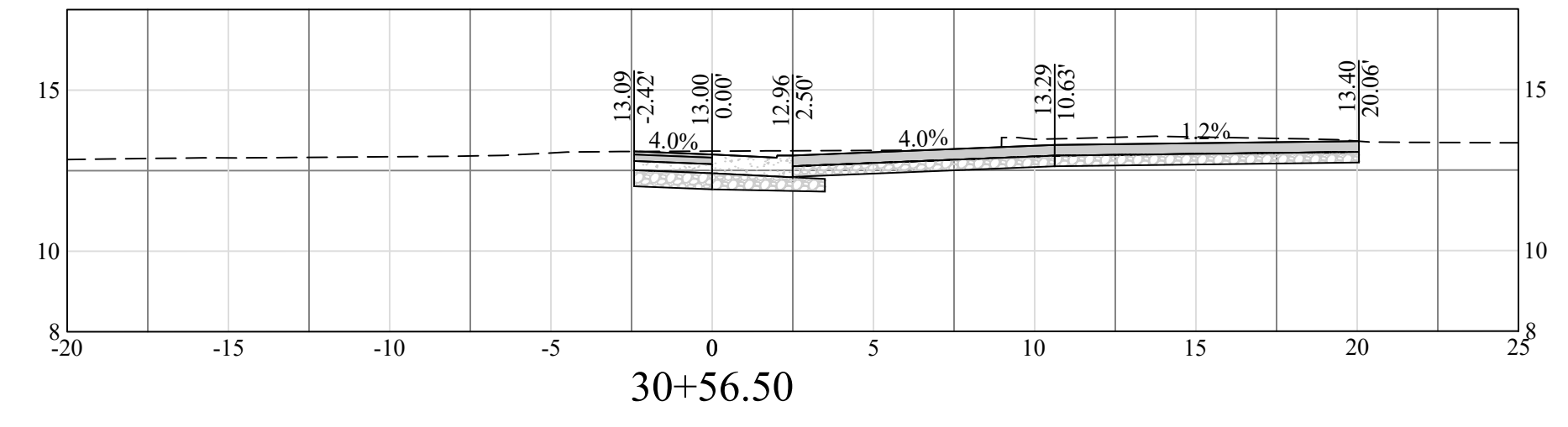
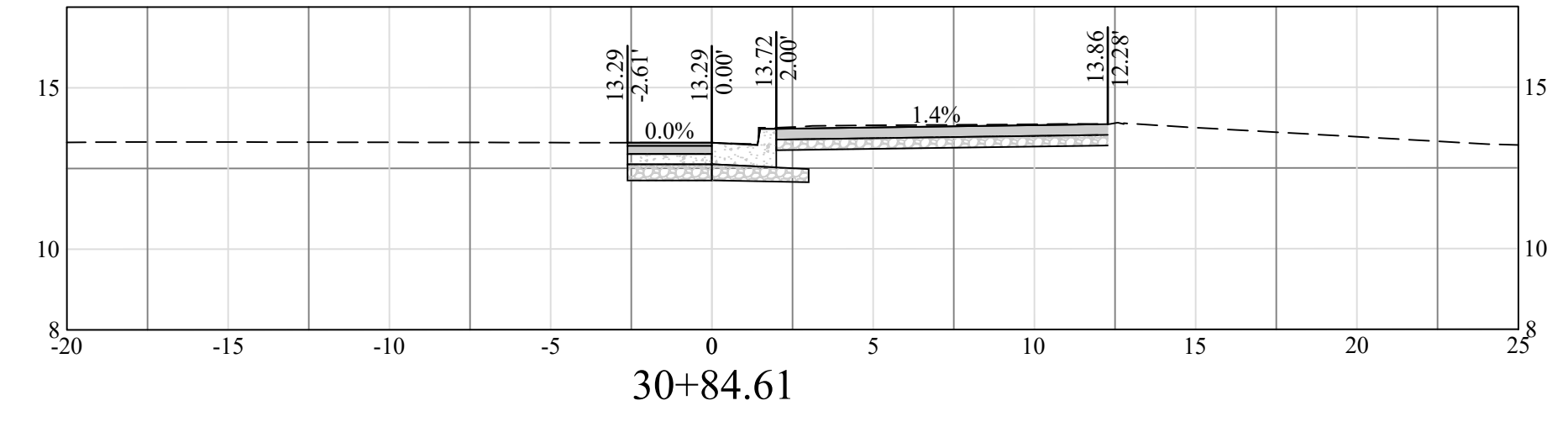
PROFILE VIEW
 Hor.: 1" = 25'
 Vert.: 1" = 5'

GRAPHIC SCALE

NOTES

- Station/Offset data is in reference to the associated EOP baseline unless otherwise noted
- Elevations along curb lines always indicate top of proposed curb elevations
- Proposed elevations based upon digital terrain model interpolation, surveyed by Arlington County
- Contractor to field verify elevations prior to setting grade

CROSS-SECTIONS - EB S. GLEBE RD RTE. 120/ SB S. EADS ST.
 Scale: 1" = 5'



DEPARTMENT OF ENVIRONMENTAL SERVICES

Transportation Engineering and Operations Bureau
 2100 Clarendon Boulevard, Suite 900
 Arlington, VA 22201
 Phone: 703.228.3344
 Fax: 703.228.3719



APPROVALS	DATE
<i>Matthew James Arnone</i> TRAFFIC SIGNAL ENGINEER	08/19/2022
<i>Matthew James Arnone</i> TRAFFIC ENGINEERING MANAGER	08/24/2022
<i>Matthew James Arnone</i> WATER, SEWER, STREETS BUREAU CHIEF	9/1/22
<i>Matthew James Arnone</i> TE&O BUREAU CHIEF	08/26/2022
<i>Dennis M. Leach</i> TRANSPORTATION DIRECTOR	08/29/2022

Revisions	Date

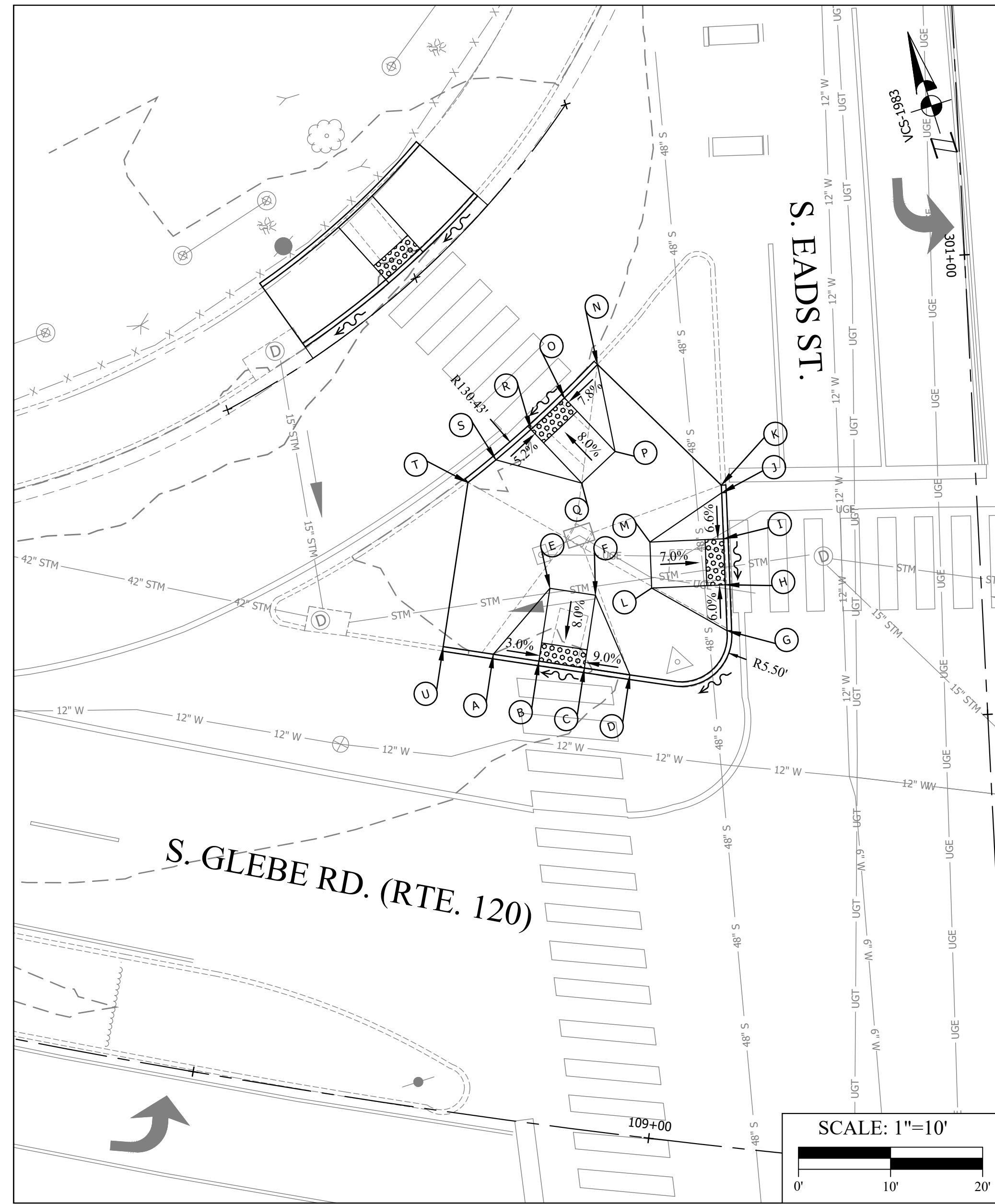
CURB RAMP DETAILS
 S. GLEBE ROAD
 INTERSECTION IMPROVEMENTS
 AT S. EADS STREET

DESIGNED: MJA
 DRAWN: KM
 CHECKED: MJA
 MISS UTILITY TRANSMITTAL #: xxx
 FILENAME: T08S-148-07-Curb_Details.dwg
 PATH: Orders\T0_010_GlebeEads\cadd\Sheets
 PLOTTED: June 06, 2022
 PLOTTED BY: kmitta

SCALE: AS SHOWN

DESIGNED BY: RUMMEL, KLEPPER, & KAHL, LLP, ANDREW MOY, PE (703-246-0028)
 SURVEYED BY: ARLINGTON COUNTY GOV., DES DATE: JULY 2020

PROJECT MANAGER: ANDREW HAYES, PE, PTOE (571-243-1120) DATE: JULY 2020
 SURVEYED BY: ARLINGTON COUNTY GOV., DES



CG-12A - SB S. EADS ST/ WB S. GLEBE RD RTE. 120
 Scale: 1" = 10'

DETAIL 7-4	BASELINE	STA.	OFFSET	WALK ELEV.
A	S. GLEBE RD	108+75.75	49.42' LT	11.00'
B	S. GLEBE RD	108+81.02	49.88' LT	10.85'
C	S. GLEBE RD	108+86.29	49.80' LT	10.90'
D	S. GLEBE RD	108+91.56	49.71' LT	11.35'
E	S. GLEBE RD	108+81.12	57.88' LT	11.49'
F	S. GLEBE RD	108+86.44	57.81' LT	11.54'
G	S. EADS ST	300+60.51	27.82' LT	11.40'
H	S. EADS ST	300+65.51	27.76' LT	11.10'
I	S. EADS ST	300+70.51	27.70' LT	11.12'
J	S. EADS ST	300+75.50	27.64' LT	11.45'
K	S. EADS ST	300+76.34	27.65' LT	11.47'
L	S. EADS ST	300+65.56	35.76' LT	11.66'
M	S. EADS ST	300+70.56	35.70' LT	11.68'
N	S. EADS ST	300+90.12	40.41' LT	11.33'
O	S. EADS ST	300+86.67	44.17' LT	10.94'
P	S. EADS ST	300+80.58	38.97' LT	11.58'
Q	S. EADS ST	300+87.04	44.50' LT	11.51'
R	S. EADS ST	300+83.43	47.98' LT	10.87'
S	S. EADS ST	300+80.33	51.94' LT	11.13'
T	S. EADS ST	300+78.01	55.11' LT	11.05'
U	S. GLEBE RD	108+69.94	49.94' LT	10.97'

ELEVATION TABLE - SB S. EADS ST/ WB S. GLEBE RD
 OUTER ISLAND

NOTES

1. See "BASELINE" column for Station/Offset data reference
2. Elevations along curb lines always indicate top of proposed curb elevations
3. Proposed elevations based upon digital terrain model interpolation, surveyed by Arlington County
4. Contractor to field verify elevations prior to setting grade



DEPARTMENT OF ENVIRONMENTAL SERVICES

Transportation Engineering and Operations Bureau
 2100 Clarendon Boulevard, Suite 900
 Arlington, VA 22201
 Phone: 703.228.3344
 Fax: 703.228.3719

Seal



APPROVALS DATE

Matthew James Arnone 08/19/2022
 TRAFFIC SIGNAL ENGINEER
John N. Nicks 08/24/2022
 TRAFFIC ENGINEERING MANAGER
John N. Nicks 9/1/22
 WATER, SEWER, STREETS BUREAU CHIEF
John N. Nicks 08/26/2022
 T&O BUREAU CHIEF
Dennis M. Leach 08/29/2022
 TRANSPORTATION DIRECTOR

Revisions Date

CURB RAMP DETAILS

S. GLEBE ROAD
 INTERSECTION IMPROVEMENTS
 AT S. EADS STREET

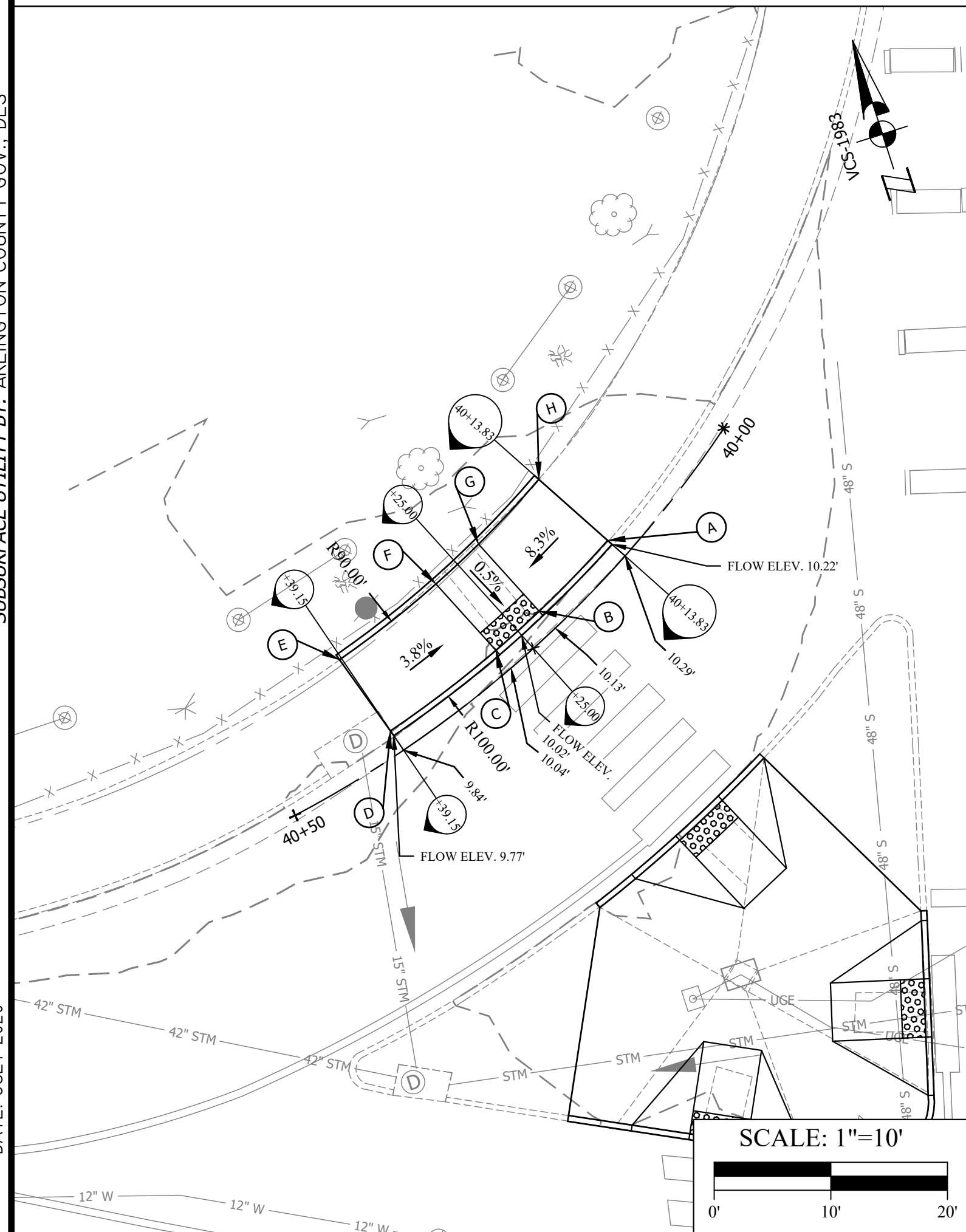
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 DRAWN: KM
 CHECKED: MJA
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 PATH: Orders\T0_010_GlebeEads\cadd\Sheets
 PLOTTED: June 06, 2022
 PLOTTED BY: kmitta

SCALE: AS SHOWN

SHEET 7C of 13A

DESIGNED BY: RUMMEL, KLEPPER, & KAHL, LLP, ANDREW MOY, PE (703-246-0028)
 SURFACE UTILITY BY: ARLINGTON COUNTY GOV., DES DATE: JULY 2020

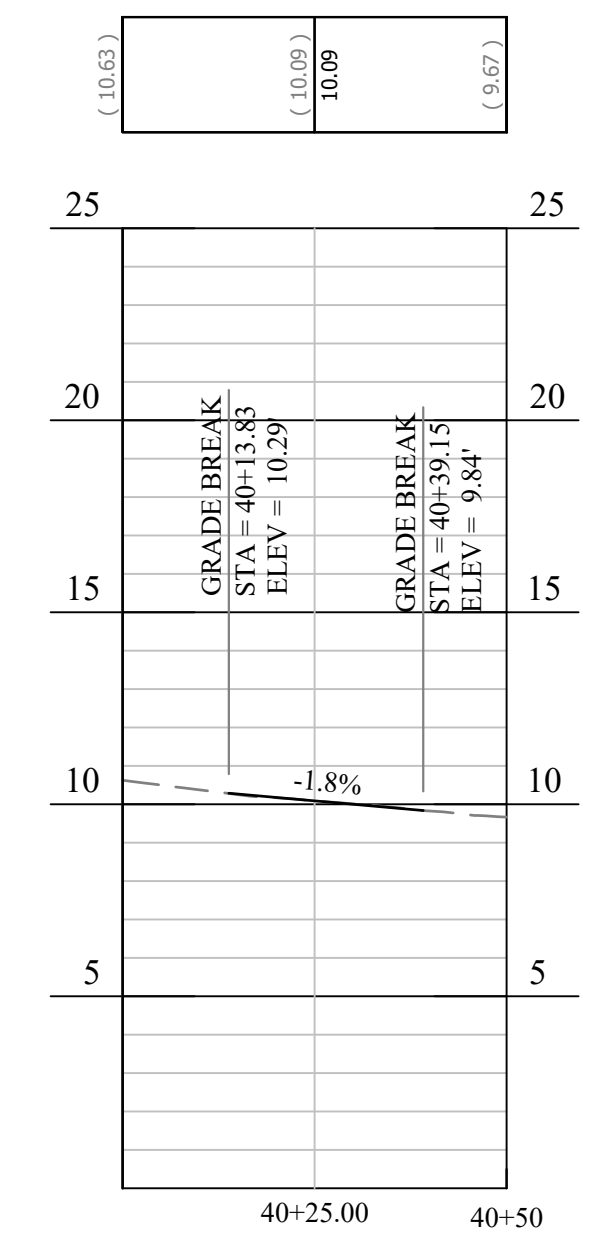
PROJECT MANAGER: ANDREW HAYES, PE, PTOE (571-243-1120) DATE: JULY 2020
 SURVEYED BY: ARLINGTON COUNTY GOV., DES



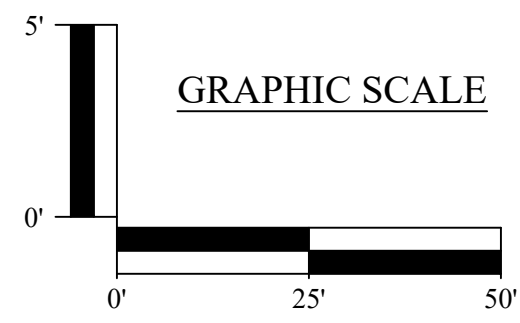
CG-12B - SB S. EADS ST/
 EB S. GLEBE RD RTE. 120
 Scale: 1" = 10'

DETAIL 7-6	STA.	OFFSET	WALK ELEV.	TOC ELEV.
A	40+13.83	2.00' RT	10.62'	
B	40+22.46	2.00' RT	10.08'	
C	40+27.54	2.00' RT	9.99'	
D	40+39.15	2.00' RT	10.13'	
E	40+39.37	9.50' RT	10.43'	10.43'
F	40+27.76	9.66' RT	10.03'	10.53'
G	40+22.23	9.75' RT	10.12'	10.62'
H	40+13.83	9.89' RT	10.75'	10.75'

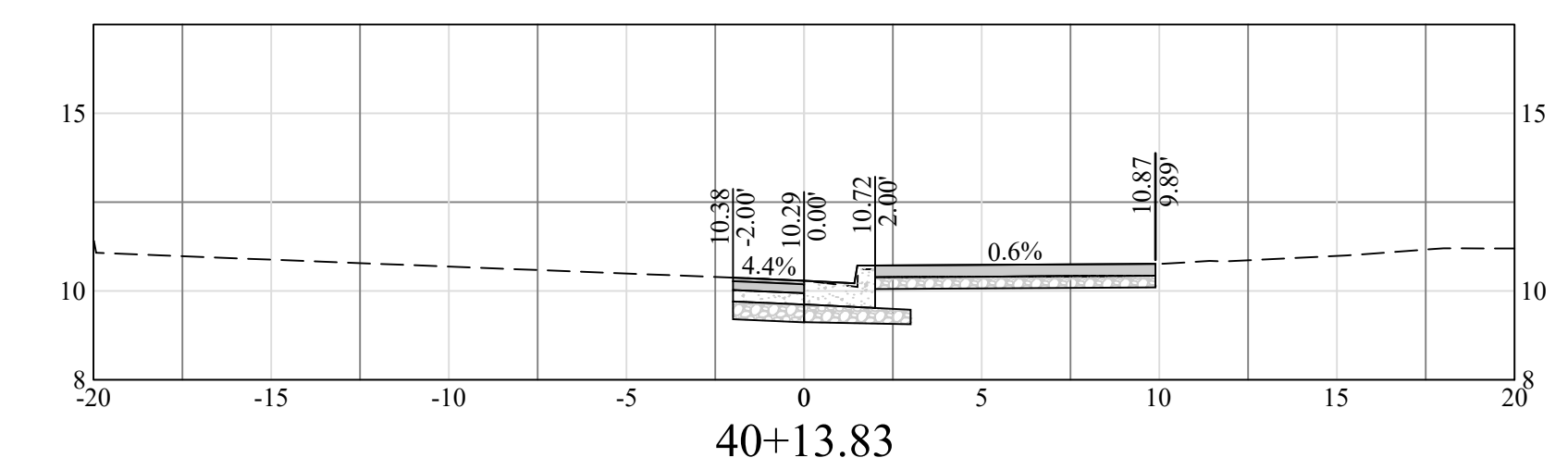
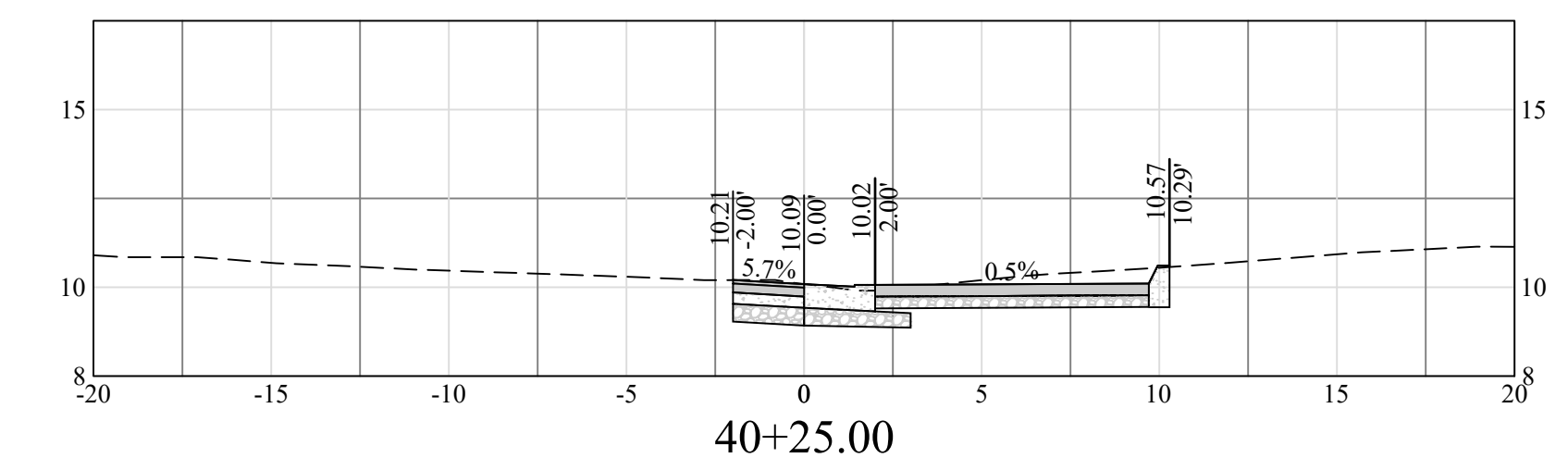
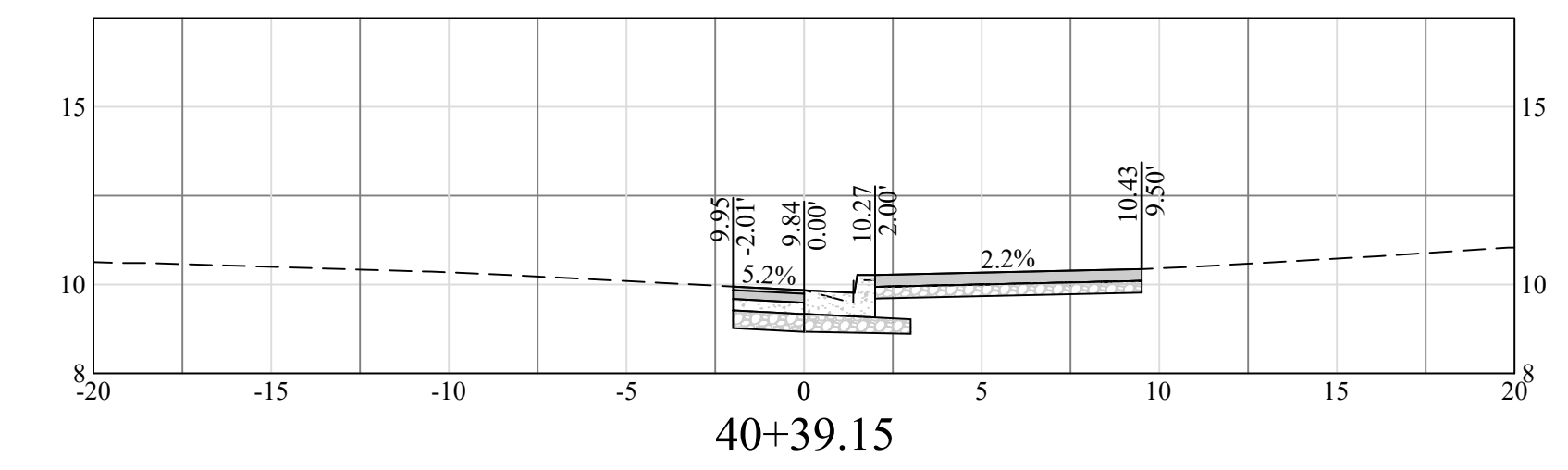
ELEVATION TABLE - SB S. EADS ST/
 WB S. GLEBE RD



PROFILE VIEW
 Hor.: 1" = 25'
 Vert.: 1" = 5'



EOP PROFILE - SB S. EADS ST/
 WB S. GLEBE RD



CROSS-SECTIONS - SB S. EADS ST/
 WB S. GLEBE RD
 Scale: 1" = 5'

NOTES

1. Station/Offset data is in reference to the associated EOP baseline unless otherwise noted
2. Elevations along curb lines always indicate top of proposed curb elevations
3. Proposed elevations based upon digital terrain model interpolation, surveyed by Arlington County
4. Contractor to field verify elevations prior to setting grade



DEPARTMENT OF ENVIRONMENTAL SERVICES

Transportation Engineering and Operations Bureau
 2100 Clarendon Boulevard, Suite 900
 Arlington, VA 22201
 Phone: 703.228.3344
 Fax: 703.228.3719

Seal



Matthew Arnone
 08-10-22

APPROVALS	DATE
<i>Matthew Arnone</i> TRAFFIC SIGNAL ENGINEER	08/19/2022
<i>John Nicks</i> TRAFFIC ENGINEERING MANAGER	08/24/2022
<i>John Nicks</i> WATER, SEWER, STREETS BUREAU CHIEF	9/1/22
<i>John Nicks</i> TE&O BUREAU CHIEF	08/26/2022
<i>Dennis M. Leach</i> TRANSPORTATION DIRECTOR	08/29/2022

Revisions	Date

CURB RAMP DETAILS
 S. GLEBE ROAD
 INTERSECTION IMPROVEMENTS
 AT S. EADS STREET

DESIGNED: MJA
 DRAWN: KM
 CHECKED: MJA
 MISS UTILITY TRANSMITTAL #: xxx
 FILENAME: T08S-148-07-Curb_Details.dwg
 PATH: Orders\T0_010_GlebeEads\cadd\Sheets

PLOTTED: June 06, 2022
 PLOTTED BY: kmitta

SCALE: AS SHOWN

SHEET 7D of 13A

DESIGNED BY: RUMMEL, KLEPPER, & KAHL, LLP, ANDREW MOY, PE (703-246-0028)
 SURVEYED BY: ARLINGTON COUNTY GOV., DES. DATE: JULY 2020

PROJECT MANAGER: ANDREW HAYES, PE, PTOE (571-243-1120)
 SURVEYED BY: ARLINGTON COUNTY GOV., DES. DATE: JULY 2020

TABLE 3.31-B
 (Revised June 2003)
TEMPORARY SEEDING SPECIFICATIONS
QUICK REFERENCE FOR ALL REGIONS

APPLICATION DATES	SEED	APPLICATION RATES
Sept. 1 - Feb. 15	50/50 Mix of Annual Ryegrass (Datum multi-florum) & Cereal (Winter) Rye (Secale cereale)	50 - 100 (lb/acre)
Feb. 15 - Apr. 30	Annual Ryegrass (Datum multi-florum)	60 - 100 (lb/acre)
May 1 - Aug. 31	German Millet	50 (lb/acre)

FERTILIZER & LIME

- Apply 10-10-10 fertilizer at a rate of 450 lbs. / acre (or 10 lbs. / 1,000 sq. ft.)
- Apply Pulverized Agricultural Limestone at a rate of 2 tons/acre (or 50 lbs. / 1,000 sq. ft.)

NOTE:

- A soil test is necessary to determine the actual amount of lime required to adjust the soil pH of site.
- Incorporate the lime and fertilizer into the top 4 - 6 inches of the soil by disking or by other means.
- When applying Slowly Available Nitrogen, use rates available in Erosion & Sediment Control Technical Bulletin #4, 2003 Nutrient Management for Development Sites at <http://www.dcr.state.va.us/aw&h&ms&ubs>

TABLE 3.32-E
 (Revised June 2003)
PERMANENT SEEDING SPECIFICATIONS FOR COASTAL PLAIN AREA

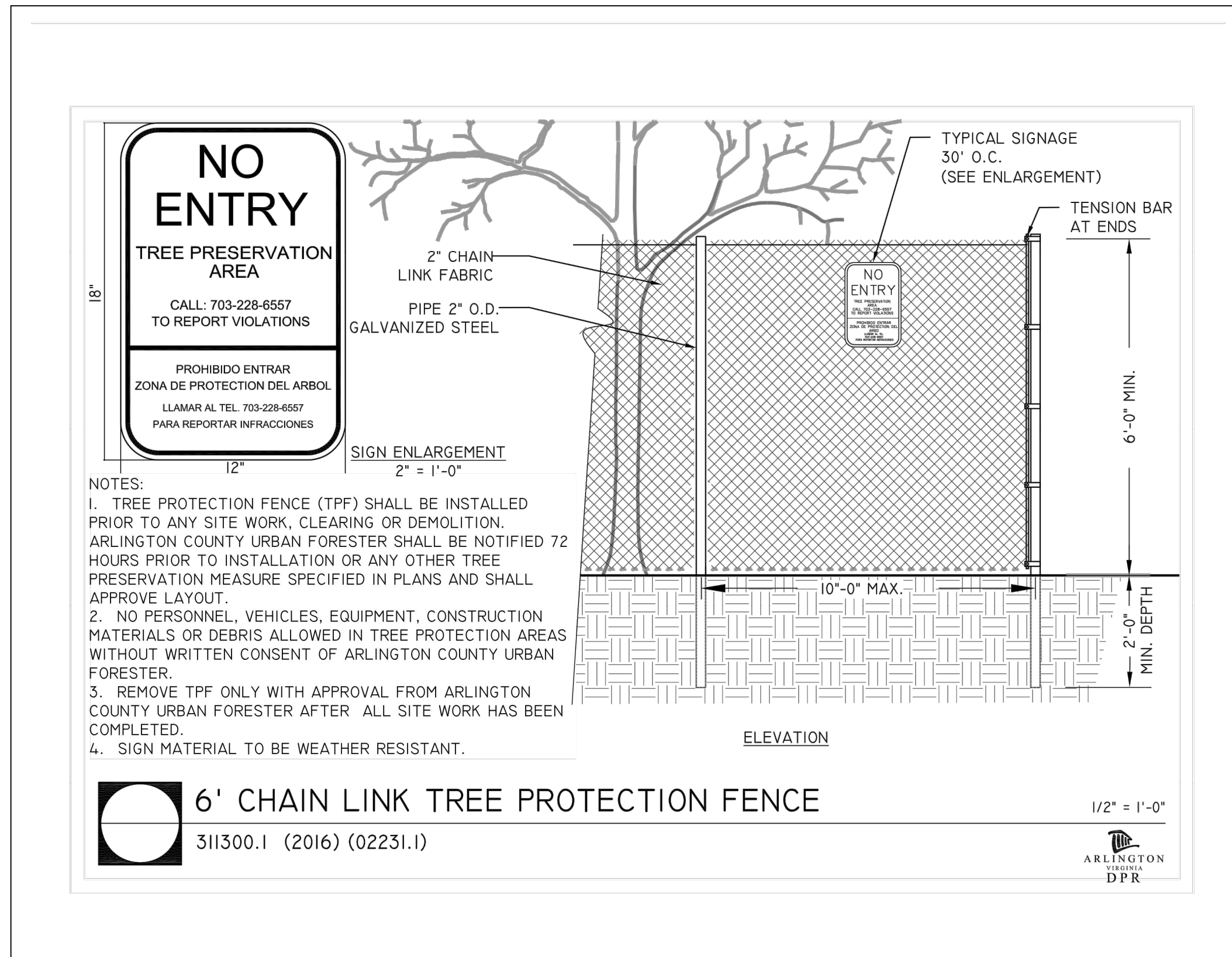
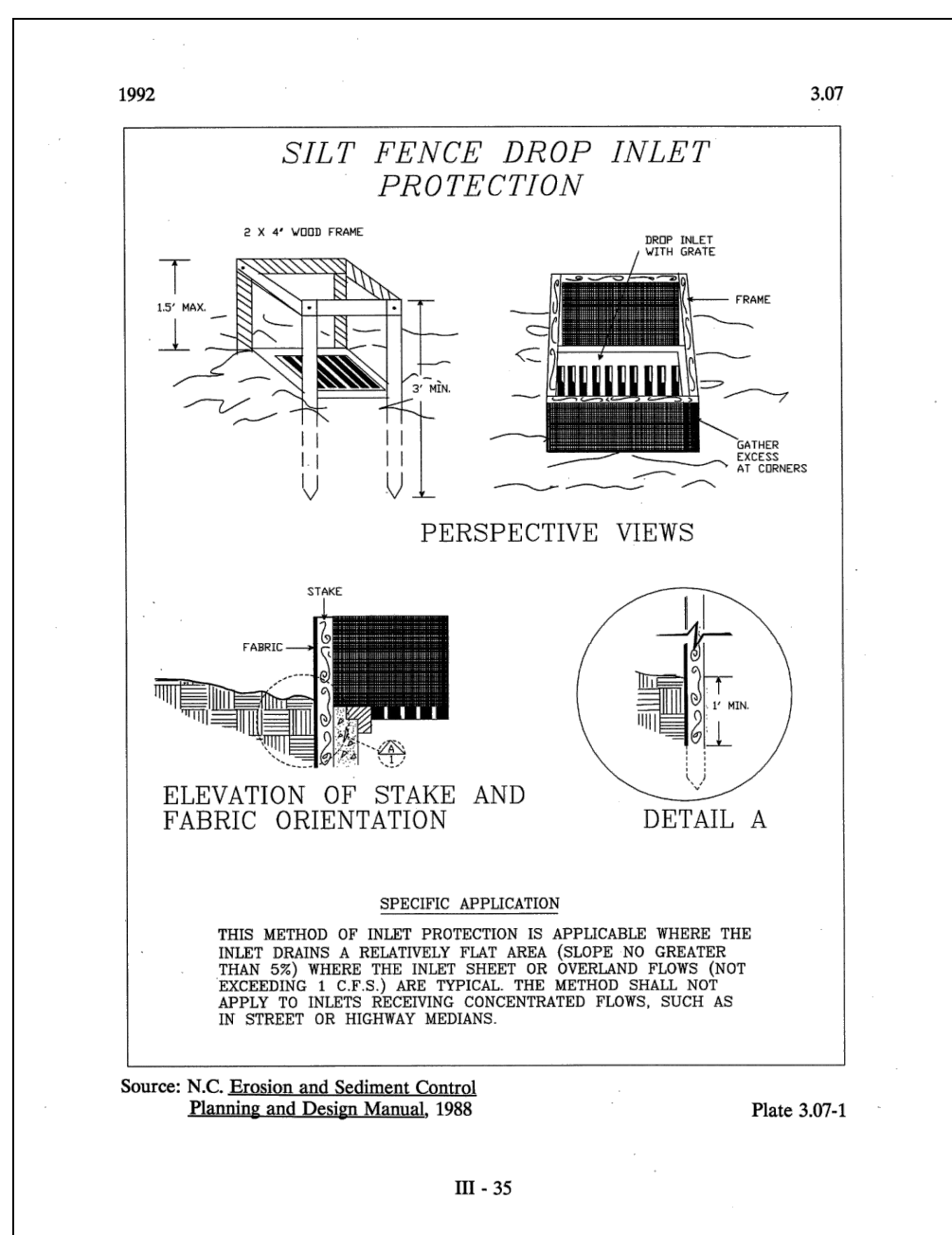
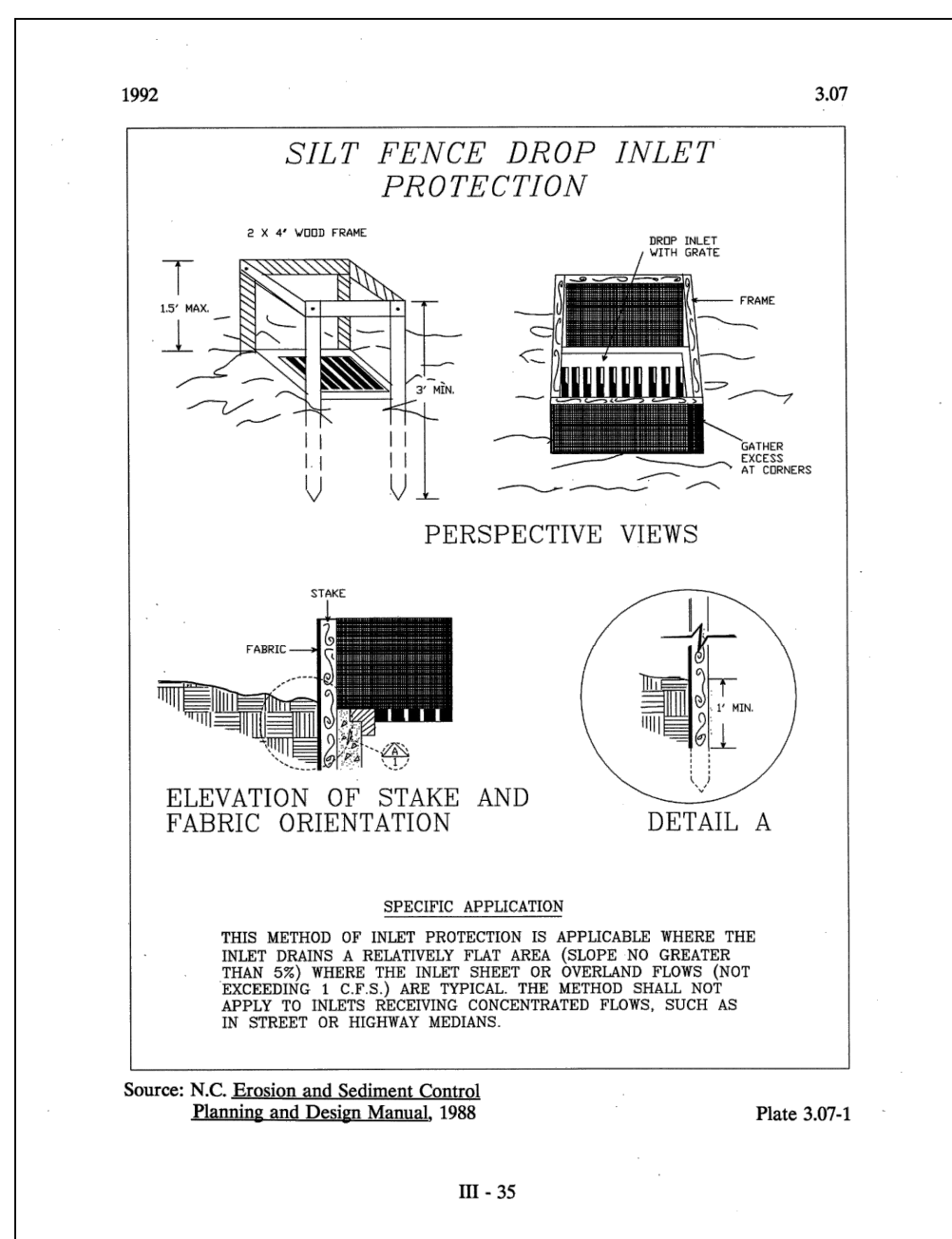
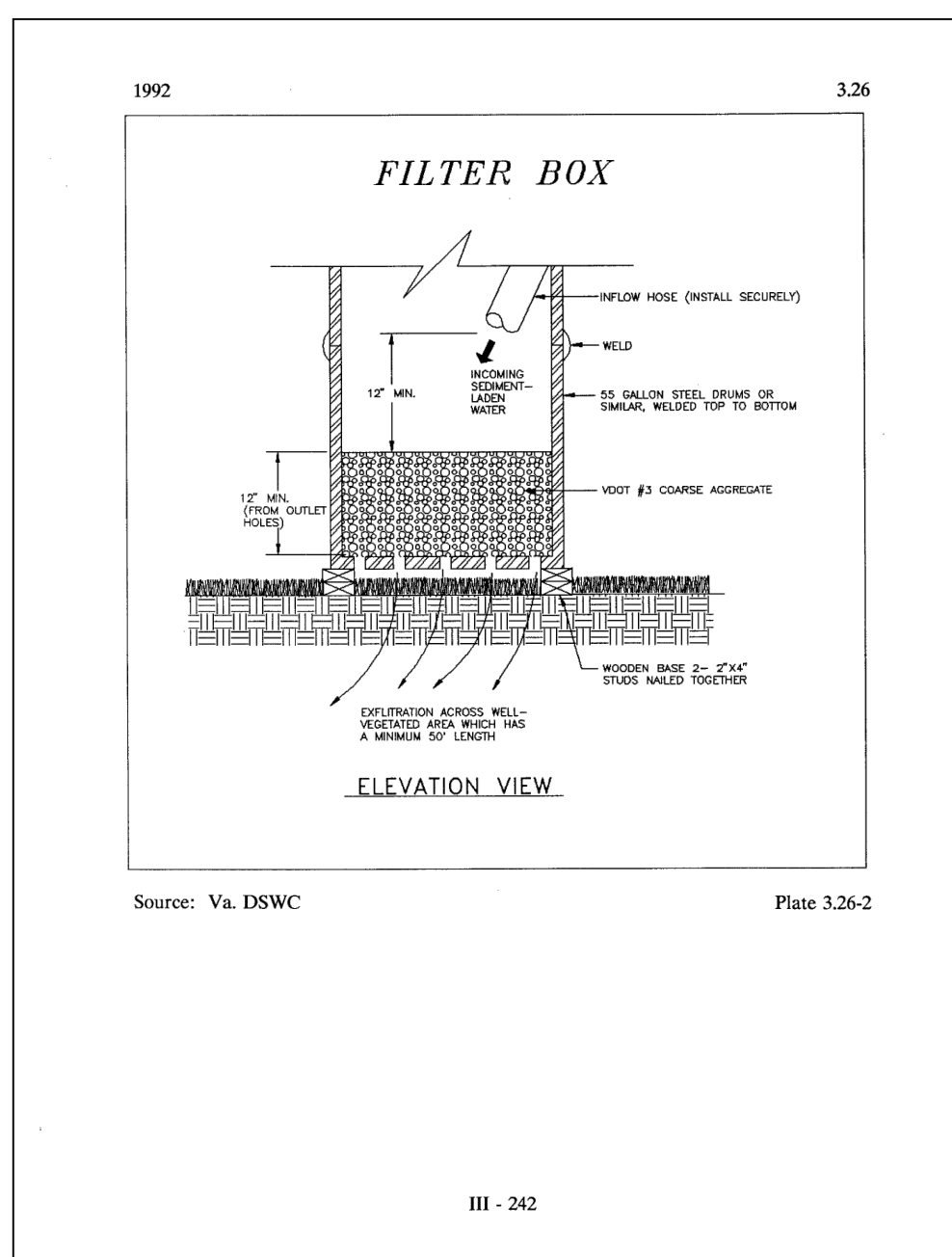
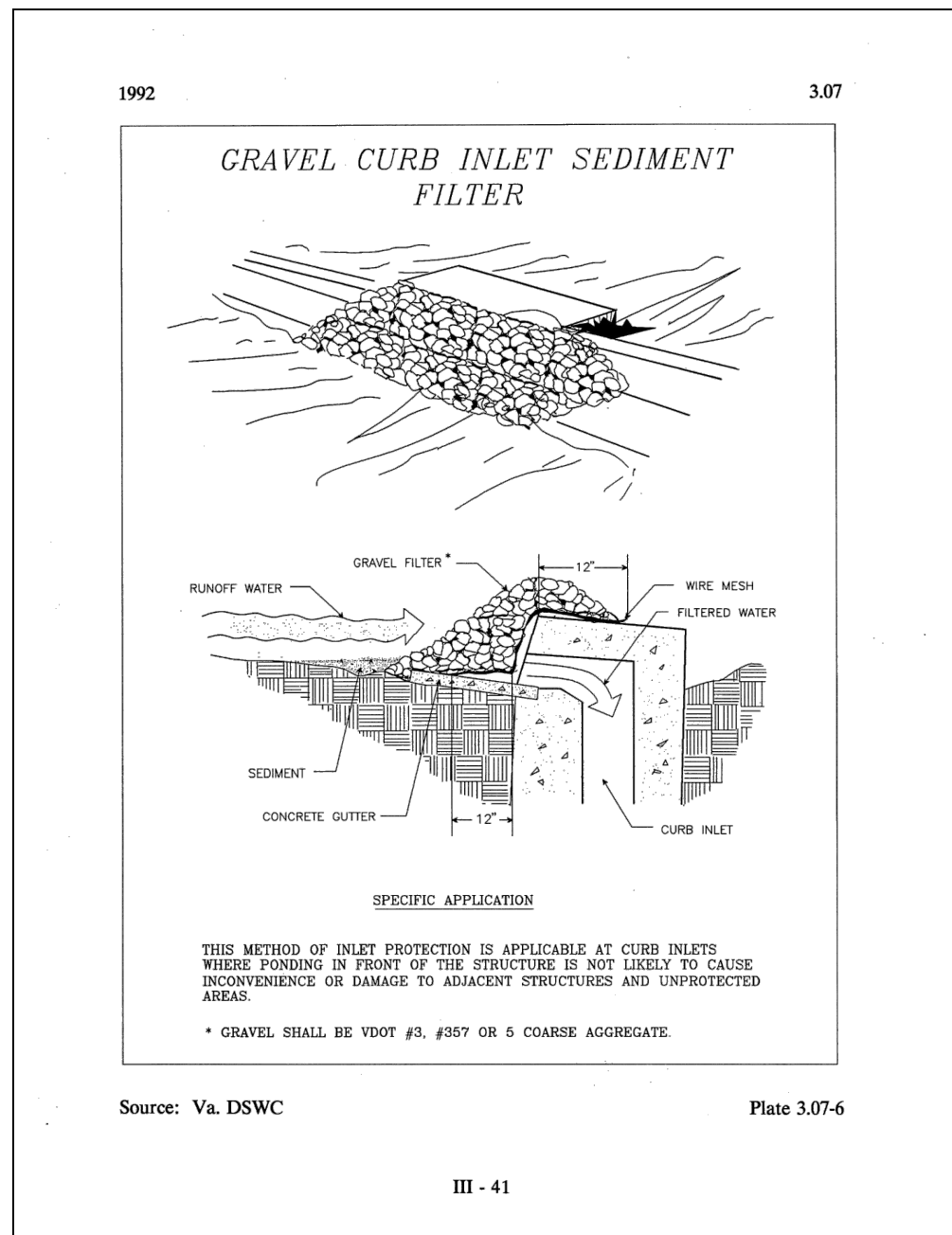
LAND USE	SEED ¹	SPECIES	APPLICATION RATES
Minimum Care Lawn (Commercial or Residential)	Tall Fescue ²	49	175 - 200 lbs.
High-Maintenance Lawn	Bermudagrass ³		75 lbs.
	Tall Fescue ²		200-250 lbs.
	Bermudagrass (seed)	40 lbs. (unhulled)	30 lbs. (hulled)
	Bermudagrass (by other vegetative establishment method, see Std. & Spec. 3.34)		
General Slope (3:1 or less)	Tall Fescue ²		128 lbs.
	Red Top Grass or Creeping Red Fescue		2 lbs.
	Seasonal Nurse Crop ⁴		20 lbs.
	TOTAL:		150 lbs.
Low-Maintenance Slope (Slope: 3:1)	Tall Fescue ²		85-108 lbs.
	Bermudagrass ³		0-15 lbs.
	Red Top Grass or Creeping Red Fescue		2 lbs.
	Seasonal Nurse Crop ⁴		20 lbs.
	TOTAL:		102 lbs.

FERTILIZER & LIME

- Apply 10-20-10 fertilizer at a rate of 900 lbs. / acre (or 12 lbs. / 1,000 sq. ft.)
- Apply Pulverized Agricultural Limestone at a rate of 2 tons/acre (or 50 lbs. / 1,000 sq. ft.)

NOTE:

- A soil test is necessary to determine the actual amount of lime required to adjust the soil pH of site.
- Incorporate the lime and fertilizer into the top 4 - 6 inches of the soil by disking or by other means.
- When applying Slowly Available Nitrogen, use rates available in Erosion & Sediment Control Technical Bulletin #4, 2003 Nutrient Management for Development Sites at <http://www.dcr.state.va.us/aw&h&ms&ubs>
- Use seasonal nurse crop in accordance with seeding dates as stated below:
 February, March - April Annual Rye
 May 1st - August Fescue Millet
 September, October - November 15th Annual Rye
 November 16th - January Winter Rye
- May through October, use hulled seed. All other seeding periods, use unhulled seed. If Weeping Lovegrass is used, include in any slope or low maintenance mixture during warmer seeding periods. If Increasing Lovegrass is used, include in any slope or low maintenance mixture during warmer seeding periods. If Weeping Lovegrass is used, include in any slope or low maintenance mixture during warmer seeding periods. If Increasing Lovegrass is used, include in any slope or low maintenance mixture during warmer seeding periods. If Weeping Lovegrass is used, include in any slope or low maintenance mixture during warmer seeding periods.



DEPARTMENT OF ENVIRONMENTAL SERVICES

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APPROVALS DATE

<i>Matthew James Arnone</i>	08/19/2022
<i>Johnnie R. ...</i>	08/24/2022
<i>Johnnie R. ...</i>	9/1/22
<i>Johnnie R. ...</i>	08/26/2022
<i>Dennis M. Leach</i>	08/29/2022

Revisions Date

EROSION AND SEDIMENT CONTROL DETAILS
S. GLEBE ROAD INTERSECTION IMPROVEMENTS AT S. EADS STREET

DESIGNED: MJD
 DRAWN: MJD
 CHECKED: TIS
 MISS UTILITY TRANSMITTAL #: xxx
 FILENAME: T08S-148-08-Erosion_and_Sediment_Control_Details
 PATH: Orders\T010_GlebeEads\cadd\Sheets
 PLOTTED: June 06, 2022
 PLOTTED BY: kmitta

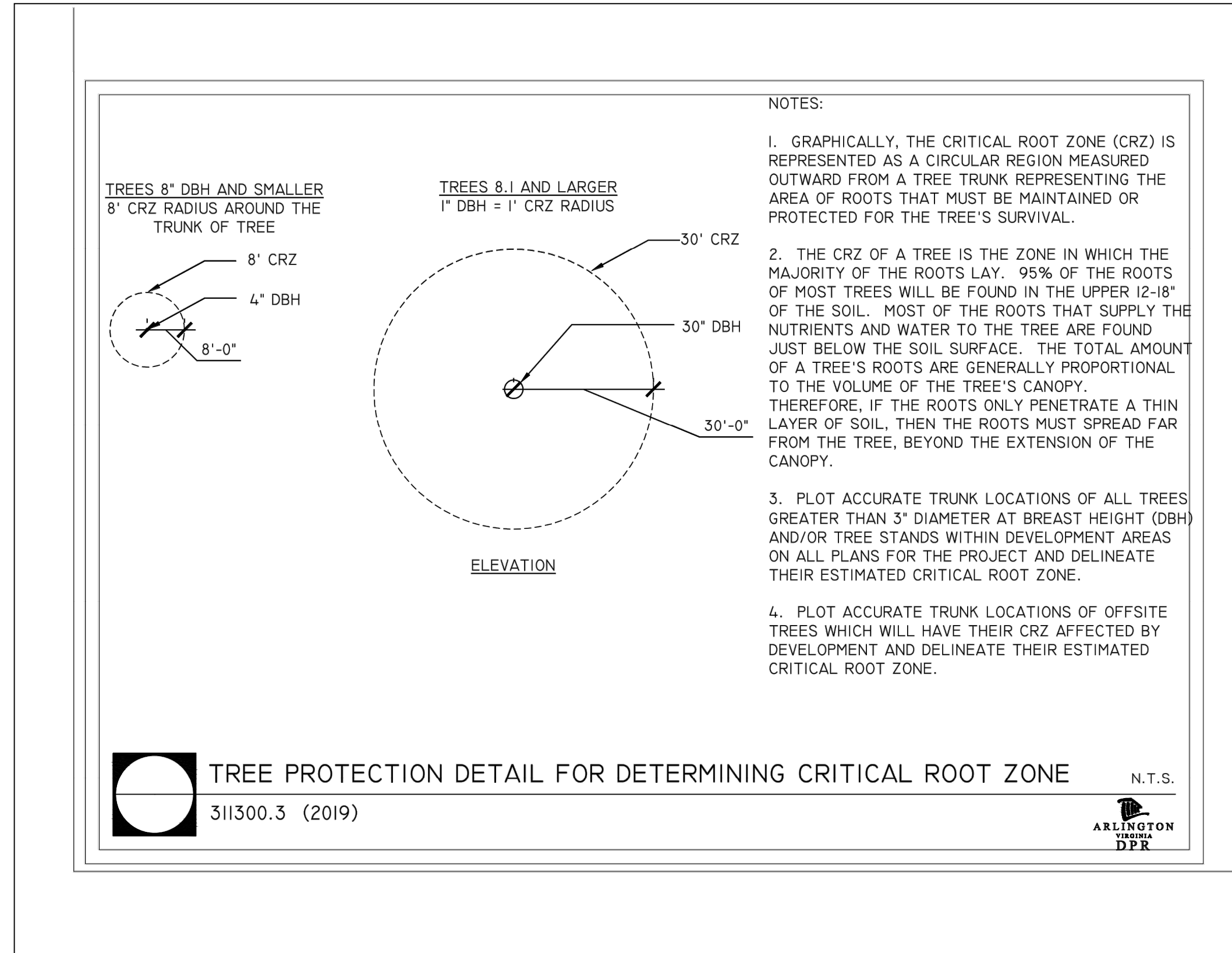
SCALE: N.T.S.

FOR ALL DETAILS AND SPECIFICATIONS, SEE THE VIRGINIA EROSION & SEDIMENT CONTROL HANDBOOK

ARLINGTON COUNTY PRE-STORM EROSION AND SEDIMENT CONTROL CHECKLIST

DESIGNED BY: RUMMEL, KLEPPER, & KAHL, LLP, ANDREW MOY, PE (703-246-0028)
 SURVEYED BY: ARLINGTON COUNTY GOV., DES DATE: JULY 2020

PROJECT MANAGER: ANDREW HAYES, PE, PTOE (571-243-1120)
 SURVEYED BY: ARLINGTON COUNTY GOV., DES DATE: JULY 2020



Pre-Storm Erosion and Sediment Control Checklist

Per Erosion and Sediment Control General Note 6, the Contractor is responsible for the installation and maintenance of any additional erosion and sediment control (ESC) measures necessary to prevent erosion and sedimentation as determined by the County. These supplementary practices are in addition to those shown in an ESC plan. ESC practices shall be modified as needed to ensure only clear water is discharged from the site.

The following actions shall be taken prior to storm events with predicted heavy and/or large volume rainfall to prevent sediment discharges from a construction site. A typical summer thunderstorm is an example of a storm event with predicted heavy and/or large volume rainfall.

Perimeter controls

- Silt fence shall be checked for undermining, holes, or deterioration of the fabric. Fencing shall be replaced immediately if the fabric is damaged or worn. Silt fence must be trenched into the ground per state specifications (Std & Spec 3.09).
- Wooden stakes or steel posts shall be properly secured upright into the ground. Damaged posts or stakes must be replaced.
- Sediment that has accumulated against the silt fence should be removed. Accumulated sediment must be removed when the level reaches one-half the height of the fencing.
- Hay bales or a stone berm should be placed across the construction entrance to prevent sediment from leaving the construction site.

Exposed slopes and soil

- Exposed slopes not at the final stabilization phase shall be covered with tarps, plastic sheeting, or erosion control matting. Covering material shall be properly secured/anchored.
- Controls shall be installed to prevent concentrated flow down an exposed slope. Berms or diversion dikes shall be installed at the top of cut / exposed slopes to direct storm flow around the disturbed area.
- Exposed slopes at the final stabilization phase shall be stabilized using slope stabilization practices such as soil stabilization blankets or matting as specified in the Virginia Erosion and Sediment Control Handbook (VESCH) Std & Spec 3.36. Blankets or mats must be properly secured and anchored to the slope using staples, pins, or stakes.
- Seeded areas shall be checked and reseeded as necessary to cover exposed soil. Recently seeded areas shall be protected by straw or soil stabilization blankets to prevent seeding from being washed away.

Stockpiles

- Stockpiled soil and other loose materials that can be washed away shall be covered with a tarp, plastic sheeting, or other stabilization matting. The cover must be properly secured / anchored down to prevent it from being blown off and exposing materials to rain. Controls such as hay bales or booms should be placed along the perimeter of the stock pile (downhill side).

Inlet protection

- Inlet protection controls shall be inspected to ensure they are functioning properly and flooding will not occur. Clogged or damaged controls must be replaced immediately. Ensure controls allow for overflow / bypass of stormwater runoff during significant storm events.

In addition to these pre-storm actions, all erosion and sediment control (ESC) measures must be checked daily and after each significant rainfall.



DEPARTMENT OF ENVIRONMENTAL SERVICES

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Seal



Matthew Arnone
 08-10-12

APPROVALS DATE

Matthew Arnone 08/19/2022
 TRAFFIC SIGNAL ENGINEER

John Nabe 08/24/2022
 TRAFFIC ENGINEERING MANAGER

John Nabe 9/1/22
 WATER, SEWER, STREETS BUREAU CHIEF

John Nabe 08/26/2022
 T&O BUREAU CHIEF

Dennis M. Leach 08/29/2022
 TRANSPORTATION DIRECTOR

Revisions Date

Revisions	Date

EROSION AND SEDIMENT CONTROL DETAILS
 S. GLEBE ROAD INTERSECTION IMPROVEMENTS AT S. EADS STREET

DESIGNED: MJD
 DRAWN: MJD
 CHECKED: TIS
 MISS UTILITY TRANSMITTAL #: xxx

FILENAME: T08S-148-08-Erosion_and_Sediment_Control_Notetask
 PATH: Orders\T0_010_GlebeEads\cadd\Sheets

PLOTTED: June 06, 2022
 PLOTTED BY: kmitta

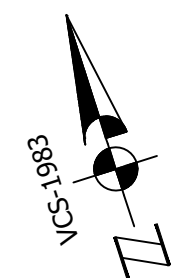
SCALE: N.T.S.

SHEET 8B of 13A

FOR ALL DETAILS AND SPECIFICATIONS, SEE THE VIRGINIA EROSION & SEDIMENT CONTROL HANDBOOK

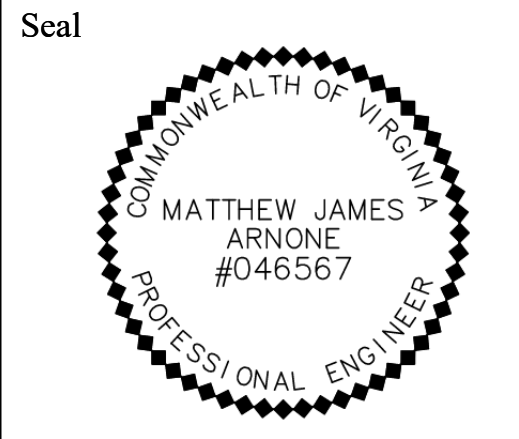
DESIGNED BY: RUMMEL, KLEPPER, & KAHL, LLP, ANDREW MOY, PE (703-246-0028)
 SURVEYED BY: ARLINGTON COUNTY GOV., DES DATE: JULY 2020

PROJECT MANAGER: ANDREW HAYES, PE, PTDE (571-243-1120)
 SURVEYED BY: ARLINGTON COUNTY GOV., DES DATE: JULY 2020



DEPARTMENT OF ENVIRONMENTAL SERVICES

Transportation Engineering and Operations Bureau
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 Phone: 703.228.3344
 Fax: 703.228.3719



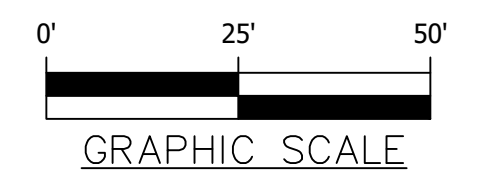
APPROVALS	DATE
<i>Andrew Moy</i> TRAFFIC SIGNAL ENGINEER	08/19/2022
<i>John Nicks</i> TRAFFIC ENGINEERING MANAGER	08/24/2022
<i>John Nicks</i> WATER, SEWER, STREETS BUREAU CHIEF	9/1/22
<i>John Nicks</i> TE&O BUREAU CHIEF	08/26/2022
<i>Dennis M. Leach</i> TRANSPORTATION DIRECTOR	08/29/2022

Revisions	Date

EROSION & SEDIMENT CONTROL PLAN
S. GLEBE ROAD INTERSECTION IMPROVEMENTS AT S. EADS STREET

DESIGNED: MJD
 DRAWN: MJD
 CHECKED: TIS
 MISS UTILITY TRANSMITTAL #: xxx
 FILENAME: T085-148-08-Erosion_and_Sediment_Control_Task
 PATH: Orders\T0_010_GlebeEads\cadd\Sheets
 PLOTTED: June 06, 2022
 PLOTTED BY: marnone

SCALE: Hor.: 1"=25'



SHEET 8C of 13A

EROSION AND SEDIMENT CONTROL LEGEND

- STORM DRAIN INLET PROTECTION (VESCH ST'D 3.07)
- TREE PROTECTION FENCING (DPR ST'D 311.300.1)
- CRITICAL ROOT ZONE
- LIMIT OF DISTURBANCE
- LIMIT OF WORK

Curve Data - S. Glebe Road
 Delta: 05°19'48"
 Radius: 5729.58'
 Length: 533.00'
 Tangent: 266.69'
 Chord Bearing: S 56°54'34" E
 P.C.C. 307+68.38
 P.C.C. 313+01.38

THE COUNTY BOARD OF ARLINGTON COUNTY, VIRGINIA
 D.B. 361, Pg. 372
 RPC 37036002

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
 D.B. 1810, Pg. 345
 RPC 37026005

THE COUNTY BOARD OF ARLINGTON COUNTY, VIRGINIA
 D.B. 1299, Pg. 580
 RPC 38006004

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
 D.B. 1810, Pg. 345
 RPC 37026005

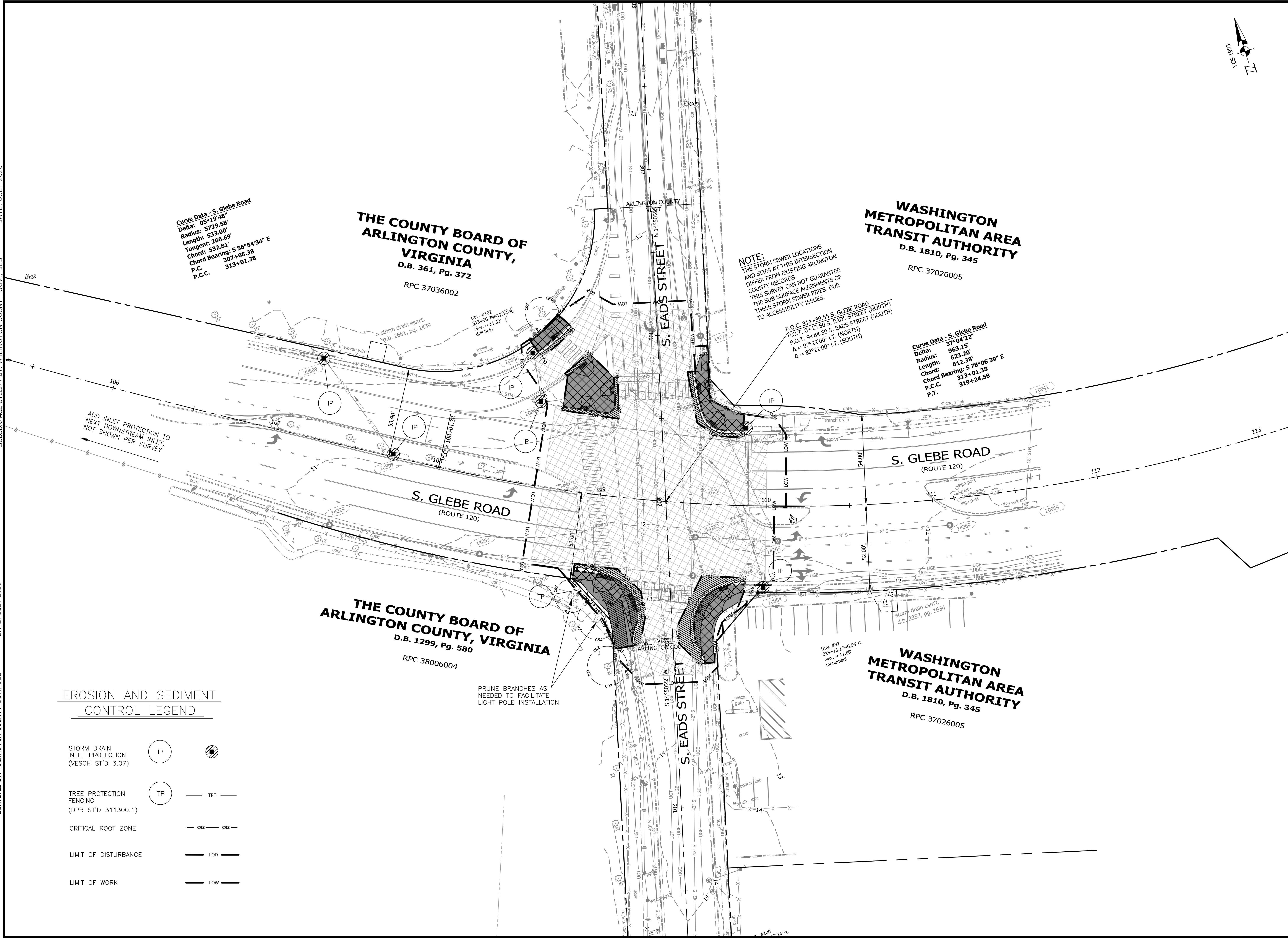
NOTE:
 THE STORM SEWER LOCATIONS AND SIZES AT THIS INTERSECTION DIFFER FROM EXISTING ARLINGTON COUNTY RECORDS. THIS SURVEY CAN NOT GUARANTEE THE SUB-SURFACE ALIGNMENTS OF THESE STORM SEWER PIPES, DUE TO ACCESSIBILITY ISSUES.

P.O.C. 314+39.55 S. GLEBE ROAD
 P.O.T. 0+15.50 S. EADS STREET (NORTH)
 P.O.T. 9+84.50 S. EADS STREET (SOUTH)
 Δ = 97°22'00" LT. (NORTH)
 Δ = 82°22'00" LT. (SOUTH)

Curve Data - S. Glebe Road
 Delta: 37°04'22"
 Radius: 963.15'
 Length: 623.30'
 Chord: 612.38'
 Chord Bearing: S 78°06'39" E
 P.C.C. 313+01.38
 P.C.C. 319+24.58
 P.T.

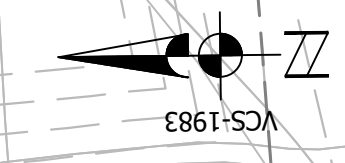
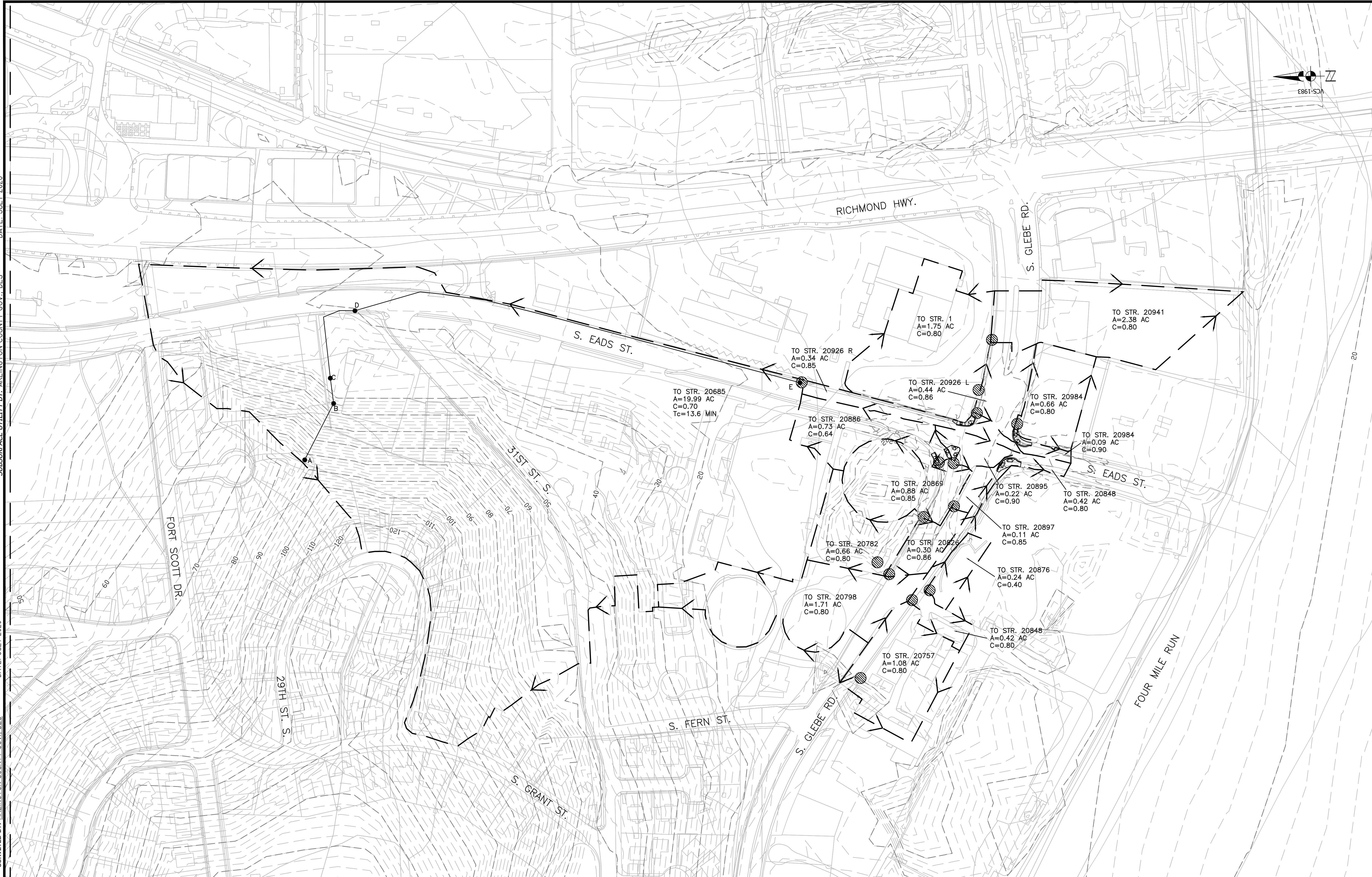
PRUNE BRANCHES AS NEEDED TO FACILITATE LIGHT POLE INSTALLATION

ADD INLET PROTECTION TO NEXT DOWNSTREAM INLET, NOT SHOWN PER SURVEY



DESIGNED BY: RUMMEL, KLEPPER, & KAHL, LLP, ANDREW MOY, PE (703-246-0028)
 SURVEYED BY: ARLINGTON COUNTY GOV., DES DATE: JULY 2020

PROJECT MANAGER: ANDREW HAYES, PE, PTOE (571-243-1120) DATE: JULY 2020
 SURVEYED BY: ARLINGTON COUNTY GOV., DES



- LEGEND**
- DRAINAGE DIVIDE
 - Tc PATH
 - INLET LOCATION

NOTE: FOR THOSE TIMES OF CONCENTRATION NOT GRAPHICALLY SHOWN, A Tc OF 5 MINUTES IS USED.



DEPARTMENT OF ENVIRONMENTAL SERVICES
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 Arlington, VA 22201
 Phone: 703.228.3344
 Fax: 703.228.3719



Matthew Arnone
 08-26-22

APPROVALS	DATE
<i>Andrew Moy</i> TRAFFIC SIGNAL ENGINEER	08/19/2022
<i>John Nicks</i> TRAFFIC ENGINEERING MANAGER	08/24/2022
<i>John Nicks</i> WATER, SEWER, STREETS BUREAU CHIEF	9/1/22
<i>John Nicks</i> TE&O BUREAU CHIEF	08/26/2022
<i>Dennis M. Leach</i> TRANSPORTATION DIRECTOR	08/29/2022

Revisions	Date

DRAINAGE DIVIDES
S. GLEBE ROAD INTERSECTION IMPROVEMENTS AT S. EADS STREET

DESIGNED: MJD
 DRAWN: MJD
 CHECKED: TIS
 MISS UTILITY TRANSMITTAL #: xxx
 FILENAME: T08S-148-09-Storm_Sewer_Analysis.dwg
 PATH: Orders\T0_010_GlebeEads\cadd\Sheets
 PLOTTED: June 06, 2022
 PLOTTED BY: kmita

SCALE: Hor.: 1"=100'

DESIGNED BY: RUMMEL, KLEPPER, & KAHL, LLP, ANDREW MOY, PE (703-246-0028)
 SUBSURFACE UTILITY BY: ARLINGTON COUNTY GOV., DES DATE: JULY 2020

PROJECT MANAGER: ANDREW HAYES, PE, PT OE (571-243-1120) DATE: JULY 2020
 SURVEYED BY: ARLINGTON COUNTY GOV., DES

ROUTE		PROJECT											DESIGNER:		MJD		DATE		10/14/2021																																				
S. GLEBE ROAD		S. GLEBE ROAD AT S. EADS STREET											CHECKED:		TIS		UNITS ENGLISH		Sag Inlets Only																																				
NUMBER	INLET	TYPE	LENGTH (FT, M)	STATION	DRAINAGE AREA (AC, HA)	C	CA	SCA	I (IN/HR, mm/HR)	Q INCR. (CFS, CMS)	Q _c CARRYOVER (CFS, CMS)	Q _o CARRYOVER (CFS, CMS)	Q _t GUTTER FLOW (CFS, CMS)	S GUTTER SLOPE (FT/FT, MM)	S _w CROSS SLOPE (FT/FT, MM)	T (SPREAD) (FT, M)	W GUTTER WIDTH (FT, M)	WT	S _w GUTTER SLOPE (FT/FT, MM)	S _w S _a	E _o (App. %C-8)	a	S _w	S _c	COMPUTED LENGTH L _i (FT, M)	L _s SPECIFIED LENGTH (FT, M)	L/LT	E (App. %C-8)	Q INTERCEPTED (CFS, CMS or dh)	Q _c CARRYOVER (CFS, CMS)	Depth at Curb (IN, MM)	Allowable Flooding Depth (FT, M)	Height of Curb Opening h (FT, M)	dh	Depth at Inlet (IN, MM)	T SPREAD @ SAG (FT, M)	REMARKS																		
20886	DI-3B	6.000	108+43.43		0.380	0.90	0.342																																																
			-75.120'LEFT		0.350	0.35	0.123																																																
20895	DI-3B	4.000	108+53.96		0.220	0.90	0.198																																																
			-49.270'LEFT				0.198																																																
20897	DI-3B	10.000	107+71.27		0.100	0.90	0.094																																																
			0.060'RIGHT		0.010	0.35	0.004																																																
20926	DI-3C	16.000	109+84.66		0.410	0.90	0.369																																																
			-44.980'LEFT		0.030	0.35	0.011																																																
					0.38	4	1.52	0.123					0.001	0.0159	14.050	2.000	0.142	0.0833	5.239																																				
					0.310	0.90	0.279																																																
					0.030	0.35	0.011																																																
							0.29	4	1.16	0																																													
													2.803	0.001																																									
20984	DI-3A	2.500	110+00.38		0.090	0.90	0.081																																																
			47.410'RIGHT				0.081	4	0.324	0	0.324	0.0660	0.0208	1.331	2.000	1.503	0.0833	4.005	1.000	3.50	0.1458	0.1666	6.022	2.500	0.415	0.619	0.201	0.123	1.330																										

TIME OF CONCENTRATION COMPUTATIONS
 BASIN: 20685
 STA/OFFSET: 108+76.48/-440.88'
 DESIGNER: MJD
 CHECKER: TIS
 DATE: 10/8/2021

Overland Flow Time (Seeley) - AB
 Length: 143 (ft)
 Slope: 0.27972 (ft/ft)
 Ground Cover: Forest
 C: 0.25 unitless
 Tc: 9.22 (min)

Overland Flow Time (Seeley) - BC
 Length: 57 (ft)
 Slope: 0.215263 (ft/ft)
 Ground Cover: Paved
 C: 0.9 unitless
 Tc: 1.83 (min)

Channel Flow Time (Kirpich) - CD
 ΔH: 7.02 (ft)
 Length: 213 (ft)
 Type of Flow: Overland Flow-Paved Surface
 Tc Multiplier: 0.4
 Tc: 0.77 (min)

Channel Flow Time (Kirpich) - DE
 ΔH: 14.95 (ft)
 Length: 1036 (ft)
 Type of Flow: Channel Flow-Concrete Channel
 Tc Multiplier: 0.2
 Tc: 1.73 (min)

TOTAL Tc: 13.6 (min)
Lag Time: 8 (min)



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 2100 Clarendon Boulevard, Suite 900
 Arlington, VA 22201
 Phone: 703.228.3344
 Fax: 703.228.3719



APPROVALS DATE
 [Signature] 08/19/2022
 TRAFFIC SIGNAL ENGINEER
 [Signature] 08/24/2022
 TRAFFIC ENGINEERING MANAGER
 [Signature] 9/1/22
 WATER, SEWER, STREETS BUREAU CHIEF
 [Signature] 08/26/2022
 T&O BUREAU CHIEF
 [Signature] 08/29/2022
 TRANSPORTATION DIRECTOR

Revisions	Date

STORM SEWER CALCULATIONS
S. GLEBE ROAD INTERSECTION IMPROVEMENTS AT S. EADS STREET

DESIGNED: MJD
 DRAWN: MJD
 CHECKED: TIS
 MISS UTILITY TRANSMITTAL #: xxx
 FILENAME: T085-148-09-Storm_Sewer_Analysis.dwg
 PATH: Orders\TO_010_GlebeEads\cadd\Sheets
 PLOTTED: June 06, 2022
 PLOTTED BY: kmitta

SCALE: N.T.S.

STORMWATER MANAGEMENT NARRATIVE

THIS PROJECT IS AN INTERSECTION IMPROVEMENT OF THE SOUTH GLEBE ROAD AND SOUTH EADS STREET. IMPROVEMENTS ARE LOCATED AT EACH OF THE FOUR CORNERS OF THE INTERSECTION. IMPROVEMENTS CONSIST OF THE INSTALLATION OF SIGNALS WITH UPDATED VEHICLE DETECTION, CCTV, EMERGENCY VEHICLE PREEMPTION, ACCESSIBLE PUSHBUTTON SYSTEMS FOR PEDESTRIANS AND IMPROVED INTERSECTION LIGHTING. NEW PAVEMENT MARKINGS AND SIGN UPGRADES ARE ALSO INCLUDED. THE SITE DRAINS TO THE POTOMAC RUN-FOURMILE RUN (PL25) WATERSHED. THE PROJECT FALLS WITHIN ARLINGTON COUNTY AND VDOT RIGHT-OF-WAY. THE RIGHT-OF-WAY ALONG SOUTH GLEBE ROAD IS CONTROLLED BY VDOT. PROJECT FUNDING WAS ESTABLISHED AFTER TO 7/1/2012, THEREFORE THE PROJECT IS SUBJECT TO THE PART IIB TECHNICAL CRITERIA, DETAILED UNDER THE VIRGINIA ADMINISTRATIVE CODE 870. SINCE THE PROJECT IS LESS THAN 2,500 SF, IT IS EXEMPT FROM WATER QUALITY ANALYSIS

WATER QUALITY
THE PROJECT HAS A TOTAL OF 0.0070 ACRES OF DISTURBED AREA FOR SWM PURPOSES, EXCLUDING OFFSITE STAGING AREAS AND PROPOSED MILLING AND OVERLAY AREAS. THE DISTURBED AREA IS WITHIN VDOT RIGHT-OF-WAY. MILL AND OVERLAY IS CONSIDERED TO BE A MAINTENANCE ACTIVITY SINCE THE SUB GRADE MATERIAL WILL NOT BE DISTURBED.

THE PRE-REDEVELOPED CONDITIONS AND POST-DEVELOPMENT CONDITIONS CONSIST OF MANAGED TURF AND IMPERVIOUS COVER. WITHIN VDOT RIGHT-OF-WAY, THE PROPOSED STREET IMPROVEMENTS CREATE A SMALL INCREASE IN IMPERVIOUS COVER (FROM 0.0883 ACRES OF EXISTING IMPERVIOUS TO 0.0953 ACRES OF PROPOSED IMPERVIOUS).

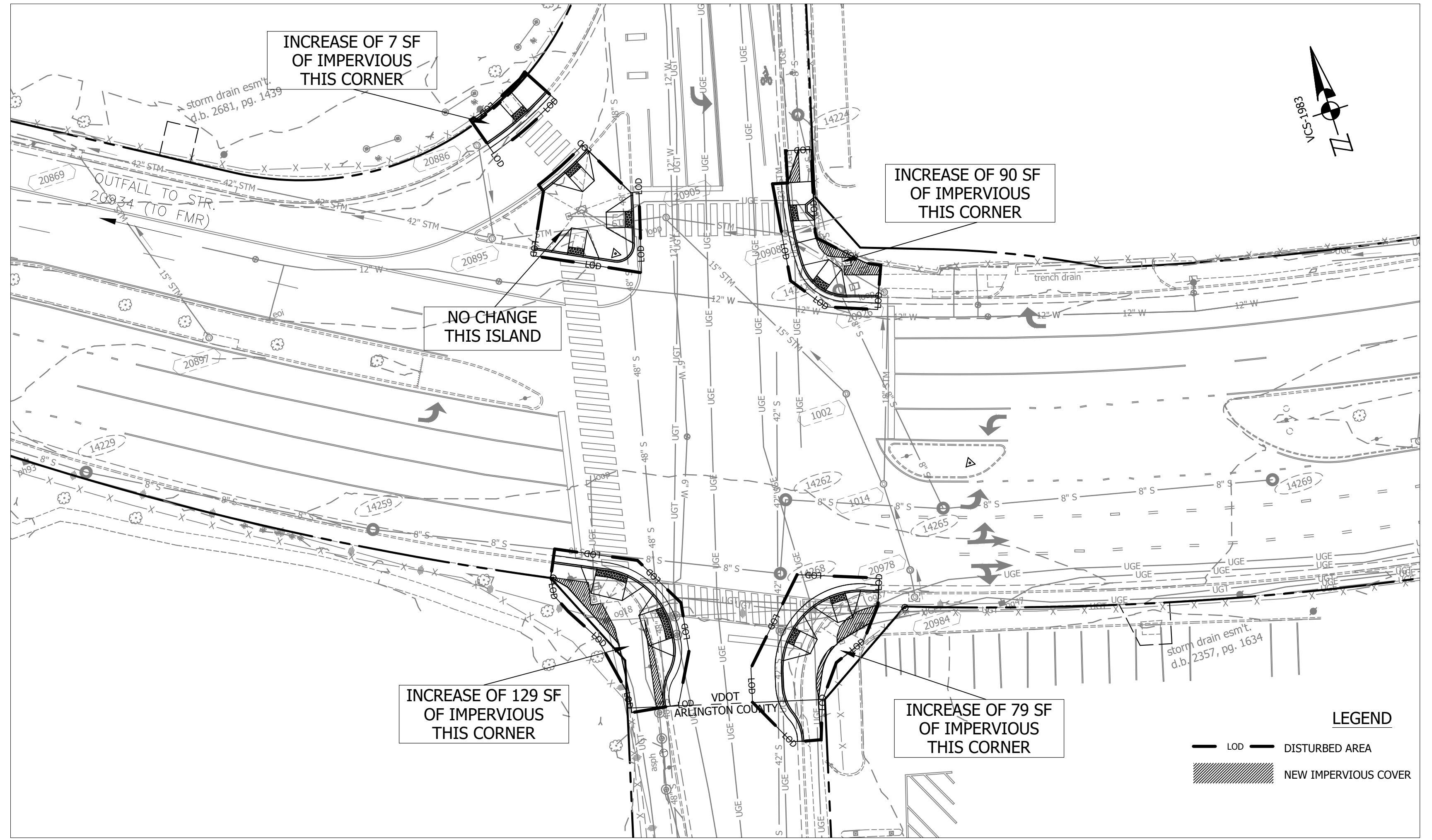
WATER QUANTITY
THE PROJECT HAS ONE OUTFALL SHOWN IN THE POST-REDEVELOPMENT CONDITIONS MAP ON THIS SHEET. OUTFALL TO STR. 20934 IS AN EXISTING 42-INCH TRUNK LINE THAT CONVEYS ALL OF THE PROJECT SITE, INCLUDING THE ROADWAY DRAINAGE.

AS SHOWN IN THE DRAINAGE CALCULATIONS (SEE SHEET 9B) THE EXISTING SYSTEM DOES NOT HAVE ADEQUATE CAPACITY TO HANDLE THE 10-YEAR, 24-HOUR DESIGN STORM. THERE ARE SEVERAL PIPES UNDER PRESSURE FLOW CAUSING HGL ISSUES, MOSTLY NEAR THE OUTFALL TO STR. 20934. HOWEVER, THE NET INCREASE OF ONSITE IMPERVIOUS AREA IS NEGLIGIBLE AND THUS THE SYSTEM WILL CONTINUE TO FUNCTION AS IT CURRENTLY DOES.

THERE HAVE BEEN NO REPORTED FLOODING ISSUES WITHIN THE PROJECT AREA. THE SITE IS LOCATED ADJACENT TO THE FOUR MILE RUN FLOOD WALL AND THE PROJECT IS WITHIN THE 100-YEAR FLOODPLAIN, SO THERE IS A RISK FOR FLOODING WITH LOWER FREQUENCY STORM EVENTS. THE PRE AND POST DEVELOPMENT RUNOFF HAS BEEN ANALYZED TO ENSURE THERE ARE NO INCREASES IN THE 100-YEAR FLOW TO FOUR MILE RUN PER CHAPTER 60-1.1.C OF THE COUNTY CODE. COMPUTATIONS ARE PROVIDED BELOW.

DRAINAGE
SOUTH GLEBE ROAD IS CLASSIFIED AS AN URBAN PRINCIPAL ARTERIAL WITHOUT SHOULDER WITH A DESIGN SPEED OF 35 MPH, WHILE SOUTH EADS STREET IS CLASSIFIED AS AN URBAN MAJOR COLLECTOR WITH A DESIGN SPEED OF 30 MPH. THE VDOT DRAINAGE MANUAL (VDM) DICTATES THAT THE DESIGN STORM FOR STORMDRAIN IS THE 10-YEAR FOR ALL ROADS WITHIN THE PROJECT AREA. THE RAINFALL INTENSITIES FOR THE STORMDRAIN ARE BASED ON THE LATEST BDE FACTORS (VDM). THESE FACTORS REPRESENT THE RAINFALL PRECIPITATION FREQUENCY DATA PROVIDED BY NOAA ATLAS 14, VOLUME 2, VERSION 3. INLET COMPUTATIONS UTILIZE A 4 IN/HR INTENSITY, WITH SPREAD LIMITED TO HALF OF THE DIVING LANE PLUS THE GUTTER WIDTH AND PONDING DEPTH LIMITED TO ONE INCH BELOW THE TOP OF CURB. STARTING HGL ELEVATIONS ARE BASED ON 0.8D. VELOCITIES FOR PROPOSED PIPES ARE BETWEEN 3 AND 10 FPS. EXISTING PIPE VELOCITIES ARE A MAXIMUM OF 40 FPS PER THE AMERICAN CONCRETE PIPE ASSOCIATION.

SOME INCONSISTENCIES HAVE BEEN NOTED IN THE PROJECT STORM SEWER SURVEY, SPECIFICALLY REGARDING CONNECTIVITY. ASSUMPTIONS HAVE BEEN MADE UTILIZING GIS AND PREVIOUS AS-BUILT PLANS.



RATIONAL METHOD FLOW COMPUTATIONS

BASIN: ESC LOD
 STA/OFFSET: N/A
 GAGE STATION: Washington Reagan AP
 DESIGNER: MJD
 CHECKER: TIS
 DATE: 10/20/2021

LAND COVER	C	PRE-DEV		POST-DEV	
		A (acres)	CA	A (acres)	CA
Business: Industrial and Commercial	0.8				
Apartments and Townhomes	0.65-0.75				
Schools	0.50-0.60				
Residential-lots up to 10,000 SF	0.40-0.50				
Residential-lots up to 12,000 SF	0.40-0.45				
Residential-lots up to 17,000 SF	0.35-0.45				
Residential-lots 1/2 acre or more	0.30-0.40				
Parks, Cemeteries and Unimproved Areas	0.20-0.35				
Paved and Roof Areas	0.90	0.09	0.08	0.10	0.09
Cultivated Areas	0.50-0.70				
Pasture	0.35-0.45				
Lawns	0.25-0.35				
Forest	0.20-0.30				
Roadway Slopes (2:1) w/ Little or No Vegetated Cover	0.70				
Roadway Shoulder & Ditch Areas w/ Little or No Vegetated Cover	0.50				
Roadway Slopes (2:1) w/ Established Vegetated Cover	0.40				
Roadway Shoulder & Ditch Areas w/ Established Vegetated Cover	0.35	0.01	0.00	0.01	0.00
TOTAL CA:		0.090		0.090	

Tc (min): 13.6

	PRE Q	POST Q	ΔQ
1-YR	0.27	0.27	0.00
2-YR	0.33	0.33	0.00
5-YR	0.39	0.39	0.00
10-YR	0.44	0.44	0.00
25-YR	0.55	0.55	0.00
50-YR	0.65	0.65	0.00
100-YR	0.73	0.73	0.00

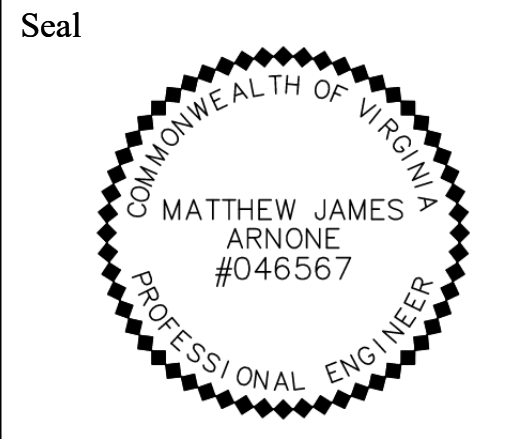
DESIGNED BY: RUMMEL, KLEPPER, & KAHL, LLP, ANDREW MOY, PE (703-246-0028)
 SURVEYED BY: ARLINGTON COUNTY GOV., DES
 DATE: JULY 2020

PROJECT MANAGER: ANDREW HAYES, PE, PTDE (571-243-1120)
 SURVEYED BY: ARLINGTON COUNTY GOV., DES
 DATE: JULY 2020



DEPARTMENT OF ENVIRONMENTAL SERVICES

Transportation Engineering and Operations Bureau
 2100 Clarendon Boulevard, Suite 900
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 Phone: 703.228.3344
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APPROVALS DATE

<i>Matthew James Arnone</i>	08/19/2022
TRAFFIC SIGNAL ENGINEER	
<i>John N. Nicks</i>	08/24/2022
TRAFFIC ENGINEERING MANAGER	
<i>John N. Nicks</i>	9/1/22
WATER, SEWER, STREETS BUREAU CHIEF	
<i>John N. Nicks</i>	08/26/2022
TE&O BUREAU CHIEF	
<i>Dennis M. Leach</i>	08/29/2022
TRANSPORTATION DIRECTOR	

Revisions Date

STORMWATER MANAGEMENT PLAN
 S. GLEBE ROAD
 INTERSECTION IMPROVEMENTS
 AT S. EADS STREET

DESIGNED: MJD
 DRAWN: MJD
 CHECKED: TIS
 MISS UTILITY TRANSMITTAL #: xxx
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 PATH: Orders\T0_010_GlebeEads\cadd\Sheets
 PLOTTED: June 06, 2022
 PLOTTED BY: kmitta

SCALE: Hor.: 1"=25'

DESIGNED BY: RUMMEL, KLEPPER, & KAHL, LLP, ANDREW MOY, PE (703-246-0028)
SURVEYED BY: ARLINGTON COUNTY GOV., DES DATE: JULY 2020

STORMWATER POLLUTION PREVENTION PLAN

STORMWATER POLLUTION PREVENTION PLAN (SWPPP)
Arlington County Projects
(Linear Development / Stormwater Retrofit)

For Construction Activities At:
S. Glebe Road Intersection Improvements
At S. Eads Street
Arlington, VA 22202

Latitude: 38.8428 N (decimal degrees)
Longitude: 77.0547 W (decimal degrees)

Construction Activity Operator:
Insert Company/Organization Name
Insert Name
Insert Address
Insert City, State, Zip Code
Insert Telephone Number
Insert Email Address
Insert 24-hour Emergency Contact

SWPPP Preparation Date:
October 12, 2021

CERTIFICATION

*I certify under penalty of law that I have read and understand this document and that this document and all attachments were prepared in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Operator Name: _____
Title: _____
Signature: _____
Date: _____

Arlington County SWPPP 12/2016 Page 1

PROJECT MANAGER: ANDREW HAYES, PE, PT/DE (571-243-1120)
SURVEYED BY: ARLINGTON COUNTY GOV., DES DATE: JULY 2020

STORMWATER POLLUTION PREVENTION PLAN

5.0 Potential Sources of Pollution & Pollution Prevention Practices

Pollutant-Generating Activity	Likely Present at your Project Site?	Pollutants										Pollution Prevention Practice	Responsible Party
		Sediment	Nutrients	Heavy Metals	pH (acids and bases)	Pesticides & Herbicides	Oil & Grease	Bacteria & Viruses	Trash, Debris, Solids	Other Toxic Chemicals			
Clearing, grading, excavating, and un-stabilized areas	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	X	X					X				(1)	Construction Activity Operator (See Cover Page of this SWPPP)
Paving and saw cutting operations	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	X					X				X	(2)	
Concrete operations, washout, and cement waste	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			X	X						X	(3)	
Washing / cleaning	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	X	X	X	X		X		X	X	X	(4)	
Dewatering operations	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	X	X								X	(5)	
Material / chemical use and storage	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	X	X	X	X	X	X		X	X	X	(6)	
Equipment and vehicle maintenance	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				X		X		X	X	X	(7)	
Waste management / disposal	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No										X	(8)	
Sanitary waste	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			X	X				X		X	(9)	
Nutrient management	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	X	X						X	X	X	(10)	

Arlington County SWPPP 12/2016 Page 4

STORMWATER POLLUTION PREVENTION PLAN

1.0 SWPPP Documents Located Onsite & Available for Review

SWPPP Document Type	Located Onsite & Available for Review?	
Registration Statement	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> NA
Notice of Coverage Letter	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> NA
Construction General Permit	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> NA
Pollution Prevention Plan	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> NA
Erosion & Sediment Control Plan	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> NA
Stormwater Management Plan	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> NA

Required documents must be kept at a centralized location on the project site (i.e. in a mail box or other container).

2.0 Authorized Non-Stormwater Discharges

Type of Authorized Non-Stormwater Discharges	Likely Present at Your Project Site?	
External buildings wash down	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Uncontaminated foundation or footing drains	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Uncontaminated excavation dewatering	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Landscape Irrigation	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Others [describe]	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

3.0 Pollution Prevention Awareness

Employees will be given a "walk through" of the site identifying areas of possible pollution and will be shown Erosion and Sediment Controls and Pollution Prevention Practices (identified in Sections 4.0 and 5.0 of this SWPPP) that are applicable to their assigned job duties. A refresher meeting and "walk through" will be conducted on an as needed basis.

4.0 Erosion & Sediment Controls

Select all that apply	Erosion & Sediment Control	Estimated Installation Date	Estimated Removal Date	Responsible Party
<input type="checkbox"/>	Construction Entrance (Std. & Spec. 3.02)			Construction Activity Operator (See Cover Page)
<input type="checkbox"/>	Silt Fence (Std. & Spec. 3.05)			
<input type="checkbox"/>	Culvert Inlet Protection (Std. & Spec. 3.09)			
<input type="checkbox"/>	Outlet Protection (Std. & Spec. 3.18)			
<input checked="" type="checkbox"/>	Temporary Seeding (Std. & Spec. 3.31)	As required	NA	
<input checked="" type="checkbox"/>	Permanent Seeding (Std. & Spec. 3.32)		NA	
<input type="checkbox"/>	Sodding (Std. & Spec. 3.33)			
<input checked="" type="checkbox"/>	Mulching (Std. & Spec. 3.35)		NA	
<input type="checkbox"/>	Safety Fence (Std. & Spec 3.01)			

Arlington County SWPPP 12/2016 Page 2

STORMWATER POLLUTION PREVENTION PLAN

Pollution Prevention Practices:

- Clearing, grading, excavating, and un-stabilized areas** – Maintain as much existing vegetation as practicable. Utilize erosion and sediment controls to prevent sediment from leaving the construction site. Dispose of clearing debris at acceptable disposal sites. Apply permanent or temporary stabilization, sodding and/or mulching to denuded areas in accordance with the erosion and sediment control specifications and the general VPDES permit for discharges of stormwater from construction activities. Plastic sheeting, tarps, 2" deep straw cover, and/or erosion matting can be used for temporary slope stabilization.
- Paving and saw cutting operations** – Cover storm drain inlets during paving and saw cutting operations. Use pollution prevention materials such as drip pans and absorbent/oil dry for all paving machines to limit leaks and spills of paving materials and fluids. Slurry from saw cutting operations may not enter a storm drain; it must be captured and disposed of properly.

Temporary controls (i.e. tarp and block, sand berms, booms, and/or filter fabric) shall be used to cover storm drains during paving and saw cutting operations to prevent any discharges from entering the storm drain. These temporary controls SHALL BE REMOVED AT THE END OF EACH DAY. Inlet protection specified in the approved ESC plan shall be installed or reinstalled following the completion of paving or saw cutting work.

Method of covering / protecting storm drains:

Method for containment, collection, disposal of saw cut slurry:

- Concrete operations, washout, and cement waste** – Direct concrete wash water into a leak-proof container or leak-proof settling basin that is designed so that no overflows can occur due to inadequate sizing or precipitation. Hardened concrete wastes shall be removed and disposed of in a manner consistent with the handling of other construction wastes.
 - Washouts must be sized appropriately for the needs of the project.
 - Do not locate washouts near storm drains. Concrete wash water is not allowed to enter a storm drain.
 - Concrete washout areas cannot be used for the purpose of dewatering.
 - Set up and operate small mixers on top of plywood that is covered by tarps or heavy plastic drop cloths.
 - Wash out mixers and truck chutes in designated contained washout areas
 - No tracking from washout areas may occur.
 - Place plastic sheeting, boards, or tarps under concrete truck chutes during pouring

The selected concrete wash out facility will be used:

Excavated Washout Structure

Arlington County SWPPP 12/2016 Page 5

STORMWATER POLLUTION PREVENTION PLAN

<input checked="" type="checkbox"/>	Storm Drain Inlet Protection (Std. & Spec. 3.08 and/or Arlington County Std. & Spec from approved ESC plan)		
<input checked="" type="checkbox"/>	Dewatering (Std. & Spec. 3.26 and/or Arlington County Std. & Spec from approved ESC plan)		
<input type="checkbox"/>	Turbidity Curtain (Std. & Spec. 3.27 and/or Arlington County Std. & Spec from approved ESC plan)		
<input checked="" type="checkbox"/>	Tree Protection (Arlington County Std. & Spec from approved ESC plan)		
<input type="checkbox"/>	Stream Crossing / Cofferdams (Std. & Spec. 3.25 or on plan)		
<input type="checkbox"/>	Pump Around System (detail on approved plan)		
<input type="checkbox"/>	Rip Rap (Std. & Spec. 3-19)		
<input type="checkbox"/>	Trees, Shrubs, Vines & Ground Covers (Std. & Spec. 3.37)		

Pre-Storm Erosion and Sediment Control Checklist

The following actions shall be taken prior to storm events with predicted heavy and/or large volume rainfall to prevent sediment discharges from a construction site. A typical summer thunderstorm is an example of a storm event with predicted heavy and/or large volume rainfall.

- Perimeter controls (silt fence, hay bales, stone berms) used to prevent sediment from leaving the site shall be checked for undermining, holes, or deterioration and repaired/replaced if needed.
- Sediment that has accumulated against perimeter controls shall be removed if the depth exceeds more than 1/2 of the silt fence height.
- Exposed soil or slopes shall be covered with straw, tarps, plastic sheeting, or erosion control matting. Covering material shall be properly secured/anchored.
- Stockpiled soil and other loose materials that can be washed away shall be covered with a tarp, plastic sheeting, or other stabilization matting. The cover must be properly secured / anchored down to prevent it from being blown off and exposing materials to rain. Controls such as hay bales or booms should be placed along the perimeter of the stock pile (downhill side). Stockpiled materials should not obstruct flow along the curb line.
- Inlet protection controls shall be inspected to ensure they are installed per approved ESC plan, are functioning properly, and maintained as needed.

Arlington County SWPPP 12/2016 Page 3

STORMWATER POLLUTION PREVENTION PLAN

Washout Structure with Wood Planks

Washout Structure with Straw Bales

Prefabricated Containment System
Type: _____

Other: _____

(4) Washing / cleaning – Prevent the discharge of wash water to the storm drain system or surface waters.

- Wash water or liquid wastes may not enter a storm drain or surface waters.
- Provide a suitable containment system for cleaning equipment such as a drum, prefabricated system, lined container, or portable wash pad.
- The wash / containment area must be sized appropriately for the needs of the project.
- Locate wash / containment areas away from storm drains.

(5) Dewatering operations – Construction site dewatering may not be discharged without treatment. Sediment laden or turbid water shall be filtered, settled or similarly treated prior to discharge.

- Dewatering detail on approved ESC plan will be used.
- Dewatering option from Planning & Field Guide for Pollution Prevention (P2):
 - Filter Box
 - Straw Bale/Silt Fence Pit
 - Portable Sediment Tank
 - Filter Bag

Arlington County SWPPP 12/2016 Page 6



DEPARTMENT OF
ENVIRONMENTAL SERVICES

Transportation Engineering and
Operations Bureau
2100 Clarendon Boulevard, Suite 900
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Phone: 703.228.3344
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APPROVALS DATE

Matthew James Arnone 08/19/2022
TRAFFIC SIGNAL ENGINEER

Paul Nabe 08/24/2022
TRAFFIC ENGINEERING MANAGER

John 9/1/22
WATER, SEWER, STREETS BUREAU CHIEF

John 08/26/2022
T&O BUREAU CHIEF

Dennis M. Leach 08/29/2022
TRANSPORTATION DIRECTOR

Revisions Date

Revisions	Date

STORMWATER POLLUTION PREVENTION PLAN
S. GLEBE ROAD INTERSECTION IMPROVEMENTS AT S. EADS STREET

DESIGNED: MJD
DRAWN: MJD
CHECKED: TIS
MISS UTILITY TRANSMITTAL #: xxx

FILENAME: T08S-148-09C-SWM.dwg
PATH: Orders\T0_010_GlebeEads\cadd\Sheets

PLOTTED: June 06, 2022
PLOTTED BY: kmita

SCALE: N.T.S.

SHEET 9D of 13A

DESIGNED BY: RUMMEL, KLEPPER, & KAHL, LLP, ANDREW MOY, PE (703-246-0028)
SUBSURFACE UTILITY BY: ARLINGTON COUNTY GOV., DES DATE: JULY 2020

PROJECT MANAGER: ANDREW HAYES, PE, PTOE (571-243-1120)
SURVEYED BY: ARLINGTON COUNTY GOV., DES DATE: JULY 2020

STORMWATER POLLUTION PREVENTION PLAN

- Pump from Settling Pit
- Manufactured System: _____
- Other: _____

(6) **Material / chemical use and storage** – Designate areas of the construction site for material delivery and storage. Locate these areas near construction entrances and away from waterways and storm drains. Enclose, cover or berm construction material storage areas if susceptible to stormwater.

Stockpiled soil and other loose materials that can be washed away shall be covered with a tarp, plastic sheeting, or other stabilization matting. The cover must be properly secured / anchored down to prevent it from being blown off and exposing materials to rain. Controls such as hay bales or booms should be placed along the perimeter of the stock pile (downhill side).

Stockpiled materials located on the edge of roadways should not obstruct flow along the curb line (gutter). Leave at least a one (1) foot space away from the curb to allow stormwater to flow along the curb line. Boards with cinder blocks and/or bricks may be used to create the flow through space.

Method used to ensure flow through: _____

Provide secondary containment for paint, pesticides, cleaners, solvents, and/or other chemicals and keep these items secured and covered when not in use.

Regularly inspect containers.

(7) **Equipment and vehicle maintenance** – Use a designated area, away from storm drains and surface waters, to refuel vehicle or equipment or perform maintenance.

- Regularly inspect vehicles and equipment for leaks. Clean up all spills and leaks upon discovery.
- Use containment measures when conducting fueling (e.g. place spill pad, board, plastic sheeting on ground)
- Regularly inspect fuel containers.
- Provide secondary containment and secure storage for fuel, oil, and/or lubricants
- Keep drip pans, sheeting, and/or absorbent pads under heavy equipment when not in use (i.e. overnight) to capture leaks.

(8) **Waste management / disposal** – Designate a waste collection area on the construction site that does not receive a substantial amount of runoff from upland areas and does not drain directly to a waterway. Ensure that waste containers have lids so they can be covered before periods of rain. Schedule waste collection to prevent the containers from overflowing.

- A sufficient number of waste containers must be kept on a site to handle the quantity of waste produced.
- Keep roll off containers covered and/or dumpster / trash lids closed.
- Check waste containers frequently for damage / leaks and clean using DRY methods when necessary. Never clean out a dumpster by power washing or hosing it out.
- Replace containers that are leaking, cracked, corroded, or otherwise deteriorating.
- Do not bury waste material. Dispose of excess dry concrete, grout and mortar in the trash.

STORMWATER POLLUTION PREVENTION PLAN

(9) **Sanitary waste** – Prevent the discharge of sanitary waste by providing convenient and well-maintained portable sanitary facilities.

- Locate portable lavatories away from storm drains and surface waters.
- Keep portable lavatories level and provide secondary containment (i.e. trays)
- Regularly inspect facilities for leaks
- Schedule routine maintenance

(10) **Nutrient management** – Apply nutrients in accordance with manufacturer's recommendations. Do not apply during rainfall events or windy conditions. Provide secondary containment and keep fertilizer properly secured when not being used.

Additional information and details can be found in the Arlington County Planning & Field Guide for Pollution Prevention (P2).

6.0 Stormwater Management Controls

Select all that apply	Stormwater Management Control	Estimated Installation Date	Responsible Party
<input type="checkbox"/>	Exempted – stormwater management retrofit facility or stream restoration project	NA	NA
<input checked="" type="checkbox"/>	Linear development project per Arlington County Chesapeake Bay Total Maximum Daily Load (TMDL) Action Plan ¹	NA	NA
<input type="checkbox"/>	Post-development Stormwater Management Controls provided by a Larger Common Plan of Development or Sale	NA	Common Plan Construction Activity Operator
<input type="checkbox"/>	Rooftop Disconnection		Construction Activity Operator

¹ In accordance with Arlington County's Chesapeake Bay Total Maximum Daily Load (TMDL) Action Plan, approved by the Virginia Department of Environmental Quality (DEQ) on September 1, 2015, linear development projects conducted by the County are administered and tracked as follows consistent with 9VAC25-870-69 A.4, 9VAC25-870-76, and 9VAC25-870-92:

- Pollutant load changes will be computed as described in Section 3.A of the Action Plan.
- Retrofit opportunities will be evaluated for each project, using the screening and selection criteria applied and described in the adopted Stormwater Master Plan.
- Retrofit projects that meet the screening criteria and are determined by Arlington to be feasible and cost-effective will be implemented with specific linear development projects. Pollutant load reductions from retrofit projects will be computed as described in Section 5 of the Action Plan.
- In cases where retrofit projects are not feasible and cost-effective for a particular linear project, any POC load increases that might occur for that project will be addressed by larger overall POC load reductions in place or added through TMDL action plan implementation.

In the above manner Arlington, as the MS4 operator and the construction site operator for its linear development projects, implements linear projects and retrofit projects in a manner that achieves the most TMDL POC reduction for the least cost, while fully accounting for load changes that occur with linear development project activity consistent with the DEQ Chesapeake Bay TMDL Special Condition Guidance.

STORMWATER POLLUTION PREVENTION PLAN

		(See Cover Page of this SWPPP)
<input type="checkbox"/>	Sheet flow to Vegetated Filter (1 or 2)	
<input type="checkbox"/>	Grass Channel	
<input type="checkbox"/>	Rainwater Harvesting	
<input type="checkbox"/>	Permeable Pavement (1 or 2)	
<input type="checkbox"/>	Infiltration (1 or 2)	
<input type="checkbox"/>	Bio-retention (1 or 2)	
<input type="checkbox"/>	Others [Purchase required nutrient credits.]	

STORMWATER POLLUTION PREVENTION PLAN

7.0 Spill Prevention & Response

Most spills can be cleaned up using a spill kit. Absorbent/oil dry, sealable containers, plastic bags, and shovels/brooms are suggested minimum spill response items that should be available at the project site.

- 1st Priority: Protect all people
- 2nd Priority: Protect equipment and property
- 3rd Priority: Protect the environment

- Check for hazards (flammable material, noxious fumes, cause of spill) – if flammable liquid, turn off engines and nearby electrical equipment. If serious hazards are present leave the area and call 911. LARGE SPILLS ARE LIKELY TO PRESENT A HAZARD.
- Ensure the spill area is safe to enter and that it does not pose an immediate threat to health or safety of any person.
- Stop the spill source.
- Call co-workers and supervisor for assistance and to make them aware of the spill and potential dangers.
- If possible, stop spill from spreading and/or entering storm drains (use absorbent or other materials as necessary).
- If spilled material has entered a storm drain; contact Arlington County Fire Department and project manager.
- Clean up spilled material according to manufacturer specifications, for liquid spills use absorbent materials and do not flush area with water.
- Properly dispose of cleanup materials and used absorbent material according to manufacturer specifications.

Emergency Contacts:

Local Contacts
Arlington County Fire & Police 703-558-2222
DES Water, Sewer, Streets 24-Hour Emergency 703-228-6555
Washington Gas Emergency 703-750-1400

Nights, Holidays & Weekends
VA Dept. of Emergency Management 804-674-2400
24 Hour Reporting Service

Spill kit on site: Yes No
Location(s) of spill kit: _____

STORMWATER POLLUTION PREVENTION PLAN

8.0 Self Inspection Report & Corrective Action Log (make additional copies as necessary)

Company/Organization: _____
Name of Inspector: _____
Telephone Number: _____
Qualifications: _____

Inspection Schedule

Discharges to impaired waters, surface waters within a TMDL watershed, or exceptional waters:
 Once every 4 business days

Inspection Date: _____

Describe phase of construction: _____
Is a copy of the SWPPP available on site? Yes No Is the SWPPP complete? Yes No

Erosion & Sediment Controls/ Pollution Prevention Practices	In Compliance?	Corrective Action Needed & Notes	Date Corrective Action Taken
Are controls in place to prevent sediment from being tracked off site or onto the street?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA		
Are perimeter controls adequately installed and properly maintained?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA		
Are storm drains properly protected / approved inlet protection is in place?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA		
Are all slopes and disturbed areas, including stockpiles, not actively being worked properly stabilized?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA		
Are dewatering operations working properly?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA		
Is construction dust properly controlled?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA		
Are mature trees and/or natural areas properly protected?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA		

STORMWATER POLLUTION PREVENTION PLAN

Are washout facilities (concrete, paint) available, labeled, and properly maintained?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA		
Are trash and waste materials properly managed and disposed of?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA		
Are trash receptacles covered and not leaking?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA		
Are non-stormwater discharges (i.e. wash water, saw cut slurry) properly managed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA		
Are vehicle and equipment fueling, maintenance, and/or staging areas free of spills and leaks?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA		
Are materials that are potential stormwater contaminants stored properly (covered / have secondary containment)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA		
Are portable lavatories level, in good condition, and located away from storm drains?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA		
Is a spill kit accessible onsite?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA		

Are there any unauthorized discharges at the time of this inspection? Yes No
If yes, describe: _____

Has any unauthorized discharge occurred since the last inspection? Yes No
If yes, describe: _____

Non - Compliance Issues
Describe any incidents of non-compliance not described above (use another page if necessary)

Certification
"I certify under penalty of law that I have read and understand this document and that this document and all attachments were prepared in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Operator or Assigned Qualified Personnel Name: _____
Signature: _____
Date: _____



DEPARTMENT OF ENVIRONMENTAL SERVICES

Transportation Engineering and Operations Bureau
2100 Clarendon Boulevard, Suite 900
Arlington, VA 22201
Phone: 703.228.3344
Fax: 703.228.3719

Seal



APPROVALS DATE

[Signature] 08/19/2022
TRAFFIC SIGNAL ENGINEER

[Signature] 08/24/2022
TRAFFIC ENGINEERING MANAGER

[Signature] 9/1/22
WATER, SEWER, STREETS BUREAU CHIEF

[Signature] 08/26/2022
TE&O BUREAU CHIEF

[Signature] 08/29/2022
TRANSPORTATION DIRECTOR

Revisions Date

Revisions	Date

STORMWATER POLLUTION PREVENTION PLAN
S. GLEBE ROAD INTERSECTION IMPROVEMENTS AT S. EADS STREET

DESIGNED: MJD
DRAWN: MJD
CHECKED: TIS
MISS UTILITY TRANSMITTAL #: xxx

FILENAME: T08S-148-09C-SWM.dwg
PATH: Orders\T0_010_GlebeEads\cadd\Sheets

PLOTTED: June 06, 2022
PLOTTED BY: kmitta

SCALE: N.T.S.

STORMWATER POLLUTION PREVENTION PLAN

9.0 Grading & Stabilization Activities Log

Date Grading Activity Initiated	Description of the Grading Activity (including location)	Date Grading Activity Ceased	Date Stabilization Measures Initiated	Description of the Stabilization Measure (including location)

10.0 SWPPP Modification & Update Log

Modification Date	Description of the Modification / Update	Modification Prepared By (name & title)

INSTRUCTIONS for COMPLETING the SINGLE FAMILY RESIDENCE, COMMON PLAN of DEVELOPMENT or SALE STORMWATER POLLUTION PREVENTION PLAN (SWPPP)

General
A Stormwater Pollution Prevention Plan (SWPPP) must be developed prior to obtaining locality (e.g., City, County, Town) authorization to commence land disturbance.

SWPPP Cover Page
For a construction activity, enter the project/site name and physical address (if available), including city (or town), state and zip code. Enter the latitude and longitude in decimal degrees of the construction activity.

Enter the Construction Activity Operator's company/organization name, the Operator's name and mailing address, including city (or town), state, and zip code, telephone number, email address (if available), and a 24-hour emergency contact.

Enter the SWPPP preparation date.

The Construction Activity Operator identified on the cover page of the SWPPP is responsible for certifying the information contained therein. Please sign the certification in INK. Please note that state statutes require the SWPPP to be signed as follows:
(1) For a corporation: by a responsible corporate officer;
(2) For a partnership or sole proprietorship: by a general partner or the proprietor, respectively;
(3) For a municipality, state, federal, or other public agency: by either a principal executive officer or ranking elected official.

Section 1.0 SWPPP Documents Located Onsite & Available for Review
Utilize the provided checklist to ensure that the required SWPPP documents are located onsite and are available for review, if applicable.

Section 2.0 Authorized Non-Stormwater Discharges
Identify the authorized non-stormwater discharges likely to be present at the project site. If an unlisted authorized non-stormwater discharge is likely to be present at the project site, provide it here.

Section 3.0 Pollution Prevention Awareness
Provide employees with a "walk through" of the project site and identify areas of possible pollution, erosion and sediment controls, and pollution prevention practices which are applicable to their assigned job duties. Conduct refresher meetings and perform additional "walk throughs" on an as needed basis.

Section 4.0 Erosion & Sediment Controls
Identify the erosion and sediment controls to be implemented at the project site. For each erosion and sediment control, enter the estimated installation date and estimated removal date. If an unlisted erosion and sediment control will be implemented at the project site, provide the applicable information here.

Section 5.0 Potential Sources of Pollution & Pollution Prevention Practices
Identify the pollutant-generating activities likely to be present at the project site; implement and maintain the corresponding pollution prevention practices. If an unlisted pollutant-generating activity is likely to be present at the project site, describe it, identify the associated pollutant(s), and provide the corresponding pollution prevention practice(s) to be implemented and maintained.

Section 6.0 Stormwater Management Controls
Identify the stormwater management controls to be implemented at the project site, if applicable. For each stormwater management control, enter the estimated installation date. If an unlisted stormwater management control will be implemented at the project site, provide the applicable information here.

Section 7.0 Spill Prevention & Response
Most spills can be cleaned up following manufacturer specifications. The priority should be to protect all people, equipment, property, and the environment. Enter the telephone number of your local fire and police departments.

Section 8.0 Inspections & Corrective Action Log
Enter the qualified inspector's company/organization name, the inspector's name, telephone number, and qualifications. Select the applicable inspection schedule, enter the construction activity inspection date, and enter the date and rainfall amount of the last measurable storm event (if applicable). Identify if the implemented best management practices are in compliance with the SWPPP. Enter corrective actions needed; the party responsible for implementing the corrective actions, and the date corrective actions were taken, if applicable. Make additional copies of the inspection and corrective action log as necessary.

Section 9.0 Grading & Stabilization Activities Log
Enter the date grading activities were initiated, a description of the grading activities including location, the date grading activities ceased, the date stabilization measures were initiated, and a description of the stabilization measures including location.

Section 10.0 SWPPP Modification & Update Log
Enter the SWPPP modification date, description of the SWPPP modification/update, and the name and title of the SWPPP modification preparer, if applicable.

DESIGNED BY: RUMMEL, KLEPPER, & KAHL, LLP, ANDREW MOY, PE (703-246-0028) DATE: JULY 2020
SURVEYED BY: ARLINGTON COUNTY GOV., DES

PROJECT MANAGER: ANDREW HAYES, PE, PTOE (571-243-1120) DATE: JULY 2020
SURVEYED BY: ARLINGTON COUNTY GOV., DES



DEPARTMENT OF ENVIRONMENTAL SERVICES

Transportation Engineering and Operations Bureau
2100 Clarendon Boulevard, Suite 900
Arlington, VA 22201
Phone: 703.228.3344
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Seal



Matthew Arnone
08-10-12

APPROVALS	DATE
<i>Jonathan P. ...</i>	08/19/2022
TRAFFIC SIGNAL ENGINEER	
<i>John ...</i>	08/24/2022
TRAFFIC ENGINEERING MANAGER	
<i>...</i>	9/1/22
WATER, SEWER, STREETS BUREAU CHIEF	
<i>...</i>	08/26/2022
TE&O BUREAU CHIEF	
<i>Dennis M. Leach</i>	08/29/2022
TRANSPORTATION DIRECTOR	

Revisions	Date

**STORMWATER POLLUTION PREVENTION PLAN
S. GLEBE ROAD INTERSECTION IMPROVEMENTS
AT S. EADS STREET**

DESIGNED: MJD
DRAWN: MJD
CHECKED: TIS
MISS UTILITY TRANSMITTAL #: xxx
FILENAME: T08S-148-09C-SWM.dwg
PATH: Orders\T0_010_GlebeEads\Cadd\Sheets
PLOTTED: June 06, 2022
PLOTTED BY: kmita

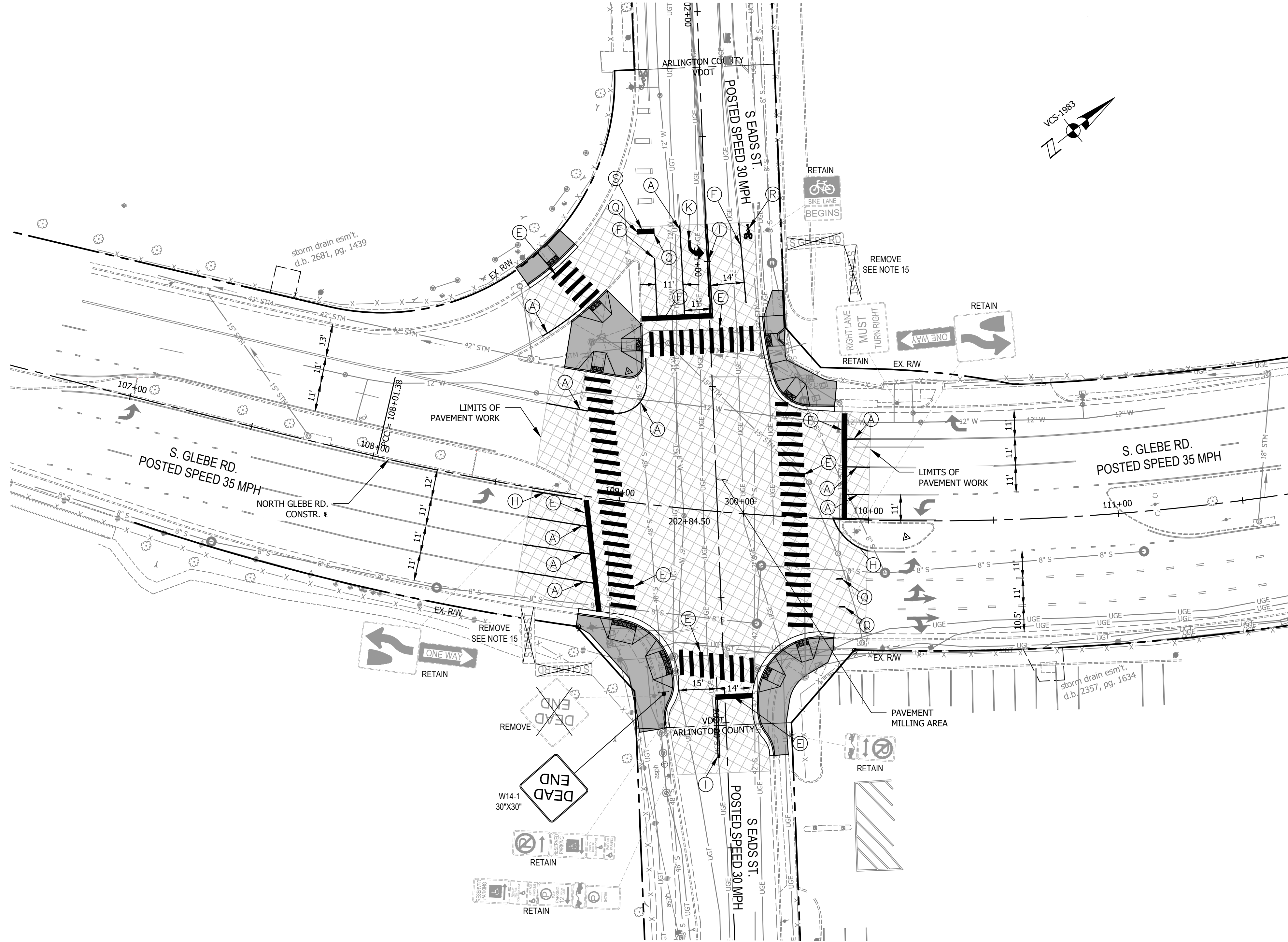
SCALE: N.T.S.

DESIGNED BY: RUMMEL, KLEPPER, & KAHL, LLP, ANDREW MOY, PE (703-246-0028)
 SURFACE UTILITY BY: ARLINGTON COUNTY GOV., DES DATE: JULY 2020

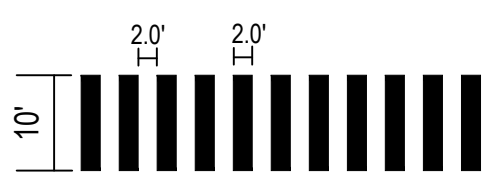
PROJECT MANAGER: ANDREW HAYES, PE, PTOE (571-243-1120)
 SURVEYED BY: ARLINGTON COUNTY GOV., DES DATE: JULY 2020

NOTES:

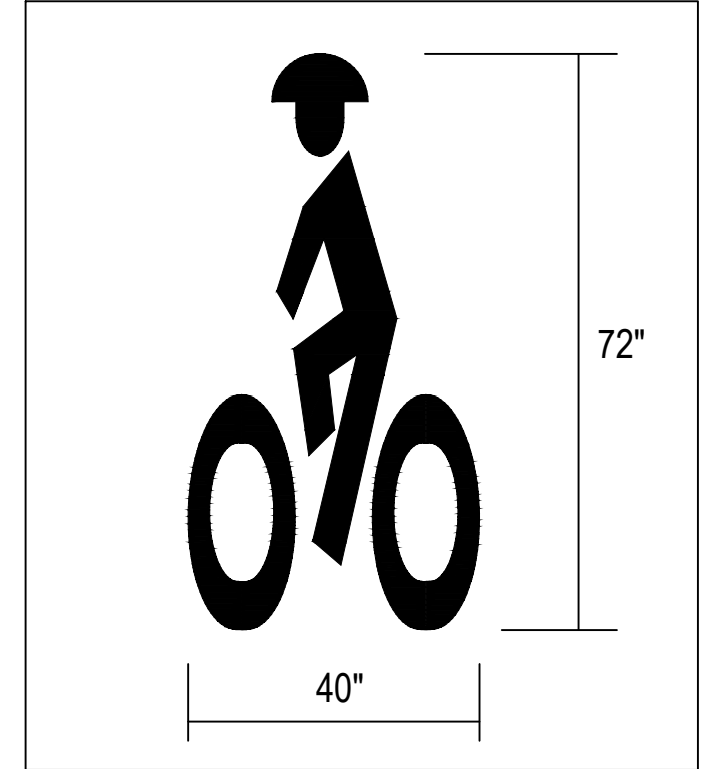
- ALL PROPOSED SIGNING AND PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE MOST CURRENT EDITION OF EACH OF THE FOLLOWING MANUALS, OR THE MOST RECENT REVISION TO:
 - ARLINGTON COUNTY DESIGN STANDARDS
 - THE VIRGINIA SUPPLEMENT TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES
 - THE VIRGINIA DEPARTMENT OF TRANSPORTATION ROAD AND BRIDGE STANDARDS
 - THE VIRGINIA DEPARTMENT OF TRANSPORTATION ROAD AND BRIDGE SPECIFICATIONS
 - THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- UNLESS OTHERWISE APPROVED BY THE ENGINEER OR INDICATED IN THE MAINTENANCE OF TRAFFIC AND SEQUENCE OF CONSTRUCTION PLANS, EXISTING TRAFFIC SIGNS WHICH ARE TO BE RELOCATED SHALL REMAIN IN PLACE UNTIL THE NEW SIGN STRUCTURE IS IN PLACE.
- THE REMOVAL OR MODIFICATION OF EXISTING SIGN PANELS, STRUCTURES, OR FOUNDATIONS SHALL CONFORM TO SECTION 510 OF THE VDOT ROAD AND BRIDGE SPECIFICATIONS.
- NEW MATERIALS AND ITEMS REQUIRED TO COMPLETE THE REMOVAL OR MODIFICATION OF EXISTING ITEMS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL IN ACCORDANCE WITH SECTION 105 OF THE VDOT ROAD AND BRIDGE SPECIFICATIONS.
- ALL EXISTING AND PROPOSED SIGN LOCATIONS ARE APPROXIMATE AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR. ALL PROPOSED SIGN LOCATIONS SHALL BE STAKED BY THE CONTRACTOR FOR REVIEW AND APPROVAL BY THE TRAFFIC ENGINEER PRIOR TO ANY INSTALLATION OR RELOCATION. LOCATIONS SHALL BE MODIFIED IN THE FIELD TO AVOID CONFLICT WITH UNDERGROUND UTILITIES OR OTHER CONSTRUCTIONS.
- NEW SIGN PANELS SHALL BE MEASURED AND PAID FOR IN UNITS OF EACH. THE PRICE SHALL INCLUDE FULL COMPENSATION FOR THE INSTALLATION OF A COMPLETE SIGN STRUCTURE, INCLUDING (BUT NOT LIMITED TO) THE FOUNDATION, SIGN POST, MOUNTING HARDWARE, AND SIGN PANEL.
- LIMITS OF PROPOSED PAVEMENT MARKINGS ARE APPROXIMATE AND SHALL BE MODIFIED IN THE FIELD TO ENSURE THAT PROPOSED PAVEMENT MARKINGS MEET EXISTING MARKINGS. ALL STRIPING, WHERE MATCHING TO EXISTING, SHALL BE DONE IN A MANNER APPROVED BY THE ENGINEER.
- EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH THE PROPOSED MARKINGS SHOWN HEREIN SHALL BE ERADICATED.
- ALL PAVEMENT MARKINGS SHALL BE TYPE B, CLASS 1 (THERMOPLASTIC), PER ARLINGTON COUNTY STANDARDS, UNLESS OTHERWISE NOTED.
- SPACING BETWEEN DOUBLE SOLID YELLOW LINES IS 4 INCHES.
- STOP BARS SHALL BE 24" IN WIDTH AND MUST BE A MINIMUM OF 4 FEET IN ADVANCE OF A MARKED CROSSWALK.
- CROSSWALKS ARE 10 FEET WIDE UNLESS OTHERWISE NOTED.
- CROSSWALK STRIPES SHALL BE SITUATED OUTSIDE OF THE EXPECTED VEHICULAR WHEEL PATHS FOR THROUGH LANES.
- CONTRACTOR IS RESPONSIBLE FOR REPLACING ANY EXISTING PAVEMENT MARKINGS THAT ARE IMPACTED BY CONSTRUCTION.
- EXISTING STREET NAME SIGNS TO BE REMOVED AND REPLACED WITH STREET NAME SIGNS MOUNTED TO MAST ARMS. SEE SHEET 10A.



HIGH DENSITY CROSSWALK



SEPARATE LANE BICYCLE SYMBOL DETAIL



SIGNING LEGEND

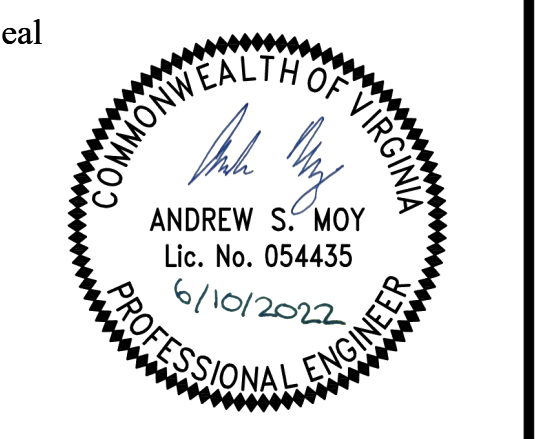
- EXISTING GROUND MOUNT SIGN SUPPORT
- PROPOSED GROUND MOUNT SIGN SUPPORT
- EXISTING BUS STOP
- EXISTING SIGN TO REMAIN
- EXISTING SIGN TO BE REMOVED
- PROPOSED SIGN

STANDARD PAVEMENT MARKING LEGEND:

- (A) TYPE B CLASS 1..... WHITE 4" WIDTH
- (B) TYPE B CLASS 1..... WHITE 4" WIDTH, 10' LONG, 30' SPACING
- (C) TYPE B CLASS 1..... WHITE 4" WIDTH, 2' LONG, 10' SPACING
- (D) TYPE B CLASS 1..... WHITE 18" WIDTH
- (E) TYPE B CLASS 1..... WHITE 24" WIDTH
- (F) TYPE B CLASS 1..... WHITE 6" WIDTH
- (G) TYPE B CLASS 1..... YELLOW 4" WIDTH, 10' LONG 30' SPACING
- (H) TYPE B CLASS 1..... YELLOW 4" WIDTH
- (I) TYPE B CLASS 1..... YELLOW 4" WIDTH, DOUBLE LINE, 4" SPACING
- (L) TYPE B CLASS 1..... WHITE 6" WIDTH, 10' SPACING @45 DEGREE
- (K) TYPE B CLASS 1..... WHITE SINGLE ARROW
- (C) TYPE B CLASS 1..... WHITE COMBINATION ARROW
- (M) TYPE B CLASS 1..... WHITE 8' LETTERS
- (N) TYPE B CLASS 1..... WHITE 6" WIDTH, 2' LONG 10' SPACING
- (O) TYPE B CLASS 1..... WHITE 12" WIDTH, 20' SPACING @45 DEGREE
- (P) TYPE B CLASS 1..... YELLOW 12" WIDTH, 20' SPACING @45 DEGREE
- (Q) TYPE B CLASS 1..... WHITE 6" WIDTH, 2' LONG, 4' SPACING
- (R) TYPE B CLASS 1..... WHITE SEPARATE LANE BIKE SYMBOL
- (S) MMA COLOR SAFE BIKE LANE PAINT, GREEN



DEPARTMENT OF ENVIRONMENTAL SERVICES
 Transportation Engineering and Operations Bureau
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 Arlington, VA 22201
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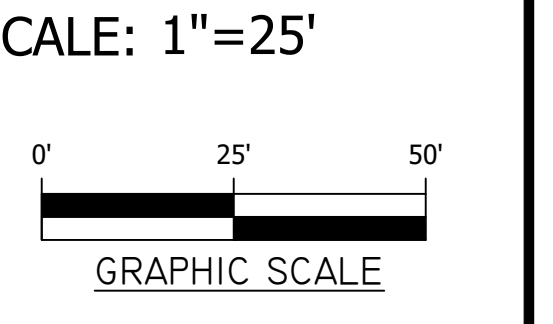


APPROVALS	DATE
<i>Andrew S. Moy</i> TRAFFIC SIGNAL ENGINEER	08/19/2022
<i>John N. Nicks</i> TRAFFIC ENGINEERING MANAGER	08/24/2022
<i>John N. Nicks</i> WATER, SEWER, STREETS BUREAU CHIEF	9/1/22
<i>John N. Nicks</i> T&O BUREAU CHIEF	08/26/2022
<i>Dennis M. Leach</i> TRANSPORTATION DIRECTOR	08/29/2022

Revisions	Date

Signing & Marking Plan
ID #148
S. GLEBE ROAD
INTERSECTION IMPROVEMENTS
AT S. EADS STREET

DESIGNED: ZDH
 DRAWN: ZDH
 CHECKED: ASM
 MISS UTILITY TRANSMITTAL #: xxx
 FILENAME: T085-148-10-Signing and Marking Plan.dwg
 PATH: Orders\T0_010_GlebeEads\cadd\Sheets
 PLOTTED: June 07, 2022
 PLOTTED BY: jkiser



Signal Notes

DESIGNED BY: RUMMEL, KLEPPER, & KAHL, LLP, ANDREW MOY, PE (703-246-0028)
SURVEYED BY: ARLINGTON COUNTY GOV., DES DATE: JULY 2020

PROJECT MANAGER: ANDREW HAYES, PE, PTOE (571-243-1120)
SURVEYED BY: ARLINGTON COUNTY GOV., DES DATE: JULY 2020

A. POLES AND FOUNDATIONS

1. MAST ARM LENGTH IS TO BE AS SHOWN ON PLAN AND ALL MAST ARMS ARE TO BE FIELD DRILLED ONLY.
2. MAST ARM POLES SHALL BE DESIGNED TO THE PROPER HEIGHT TO ACCOMMODATE A STREET LIGHT LUMINAIRE AND INSTALLED IN ACCORDANCE WITH ARLINGTON COUNTY TRAFFIC SIGNAL & STREETLIGHT SPECIFICATIONS.
3. MAST ARM POLE FOUNDATIONS SHALL BE INSTALLED IN ACCORDANCE WITH ARLINGTON COUNTY STANDARDS AND SPECIFICATIONS. ALL POLES SHALL HAVE A MINIMUM 6-BOLT PATTERN.
4. AT THE COUNTY'S REQUEST, THE CONTRACTOR SHALL DIG TEST PITS TO VERIFY THAT SIGNAL POLE FOUNDATIONS WILL NOT CONFLICT WITH UNDERGROUND UTILITIES AND THAT FOUNDATIONS WILL FIT WITHIN THE EXISTING RIGHT-OF-WAY.
5. SIGNAL POLES AND MAST ARMS SHALL BE NON-ORNAMENTAL. COBRA LIGHTING SHALL BE LED.
6. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING POLE FOUNDATION DESIGNS FOR ANY MAST ARM POLES. THE CONTRACTOR SHALL SUBMIT REQUIRED STRUCTURAL DRAWINGS AND CALCULATIONS FOR REVIEW PRIOR TO STARTING FORM WORK FOR THE FOUNDATIONS.

B. CONTROLLER AND FOUNDATION

1. NEW CONTROLLER CABINETS SHALL INCLUDE BATTERY BACKUP PER ARLINGTON COUNTY REQUIREMENTS.
2. CONTROLLER SHALL BE INTELIGHT X-3 AND SHALL BE INSTALLED AND SET AS FOLLOWS:
 - 2.1 TO REST IN PHASE 2 & 6 GREEN INTERVAL
 - 2.2 TO START/RESTART IN PHASE 2 & 6 YELLOW CHANGE INTERVAL
3. THE CONTROLLER CABINET AND FOUNDATION SHALL BE INSTALLED IN ACCORDANCE WITH ARLINGTON COUNTY TRAFFIC SIGNAL & STREETLIGHT SPECIFICATIONS 66-01, 66-02, AND 70-01.
4. THE COUNTY WILL PROVIDE SIGNAL TIMINGS TO THE CONTRACTOR FOR THE CONTROLLER WHEN THE INTERSECTION IS TOTALLY PREPARED FOR OPERATION. THE CONTRACTOR SHALL NOTIFY THE COUNTY IN WRITING 10 DAYS IN ADVANCE OF REQUIRING FINAL TIMINGS.

C. TRAFFIC SIGNAL HEADS

1. ALL NEW VEHICULAR SIGNAL SECTIONS SHALL BE 12 INCHES IN DIAMETER CAST ALUMINUM WITH LED DISPLAYS.
2. PEDESTRIAN SIGNAL HEAD SECTIONS SHALL BE CAST ALUMINUM WITH LED DISPLAYS (COUNTDOWN).
3. ALL SIGNAL HEADS SHALL BE YELLOW IN COLOR.
4. ALL SIGNAL HEADS SHALL BE INSTALLED WITH RETROREFLECTIVE BACKPLATES PER VDOT STANDARDS AND SPECIFICATIONS.

D. DETECTORS

1. ALL NEW PEDESTRIAN PUSH BUTTON STATIONS SHALL CONFORM TO ARLINGTON COUNTY'S SPECIFICATIONS FOR ACCESSIBLE SIGNAL DESIGN AND SHALL USE POLARA VIBRO-TACTILE/AUDIO PUSH BUTTON ASSEMBLIES UNLESS OTHERWISE SPECIFIED. THE CONTRACTOR SHALL PROVIDE EXTENDER BRACKETS IF NEEDED TO MAKE PUSHBUTTONS ACCESSIBLE BY WHEELCHAIR. THE PUSHBUTTON ASSEMBLY SHALL CONTAIN A MOUNTING BRACKET TO ALLOW THE R10-3E SIGN TO BE MOUNTED DIRECTLY TO THE PUSHBUTTON.
2. NEW OVERHEAD VIDEO DETECTION SHALL BE INSTALLED IN ACCORDANCE WITH COUNTY REQUIREMENTS. CONTRACTOR TO COORDINATE THE VIDEO DETECTION TYPE WITH THE COUNTY.
3. EMERGENCY VEHICLE PRE-EMPTION (EVP) EQUIPMENT (GTT MODEL M711 OR M721), OR APPROVED SUBSTITUTE, SHALL BE INSTALLED COMPLETE WITH DISCRIMINATOR CARDS, WIRING, ETC. IN ACCORDANCE WITH ARLINGTON COUNTY STANDARDS.
4. EVP TO BE MOUNTED ON VEHICLE HEAD MOUNTING BRACKET OR AS APPROVED BY THE ENGINEER IN THE FIELD. EVP SHALL INCLUDE CONFIRMATION LIGHTS.

E. CONDUIT, CONDUCTORS, AND ELECTRICAL

1. ALL JUNCTION BOXES SHALL HAVE THE WORDS "ARLINGTON COUNTY TRANSPORTATION" CAST IN THE LID. ALL JUNCTION BOXES SHALL BE INSTALLED PER STANDARDS 61-02, 61-03, AND 61-04.
2. METER PEDESTAL SHALL BE INSTALLED PER COUNTY STANDARDS. UNDERGROUND SERVICE SHALL BE OBTAINED FROM THE NEAREST UTILITY POLE OR SERVICE POINT. CONTRACTOR IS RESPONSIBLE FOR OBTAINING APPROVAL AND COORDINATING WITH POWER SERVICE COMPANY FOR CONNECTION.
3. CONDUIT SYSTEM SHALL BE ADDED TO CONNECT EXISTING COMMUNICATION CABLE PLANT TO THE NEW CONTROLLER CABINET LOCATION AS DIRECTED BY THE COUNTY ENGINEER.
4. ALL CONDUIT ENTERING INTO JUNCTION BOXES SHALL NOT EXTEND OVER 3" MAXIMUM NOR 2" MINIMUM INSIDE THE JUNCTION BOXES, AND SHALL BE FITTED WITH BELL ENDS OR BUSHING.
5. ALL JUNCTION BOXES SHALL HAVE A GROUND ROD INSTALLED. ALL JUNCTION BOXES SHALL BE PROPERLY CONNECTED TO THE INTERSECTION GROUNDING SYSTEM. METAL LIDS SHALL BE BONDED TO THE GROUNDING SYSTEM.
6. CONTRACTOR IS TO VERIFY DEPTHS OF UTILITIES AT PROPOSED CONDUIT CROSSINGS PRIOR TO EXCAVATING CONDUIT TRENCHES OR BORING.
7. ALL CONDUITS BENEATH ROADWAYS SHALL BE DIRECTIONAL DRILLED UNLESS DIRECTED OTHERWISE BY THE COUNTY CONSTRUCTION MANAGER. WHERE DIRECTED ON THE PLANS OR BY THE CONSTRUCTION MANAGER, THE CONTRACTOR SHALL INSTALL SPARE CONDUITS WITH PULL TAPE AND TRACER WIRE FOR ROAD CROSSINGS.
8. ALL EXISTING CONDUIT AND CABLES ARE BASED ON RECORD DRAWINGS OR WERE ESTIMATED. CONTRACTOR SHALL VERIFY CONDUIT FILL CAPACITY IN EXISTING CONDUITS PRIOR TO BEGINNING CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY ARLINGTON COUNTY IF CONDUIT CAPACITY IS NOT AVAILABLE IN EXISTING CONDUIT FOR NEW CABLES.
9. NEW CCTV CAMERAS SHALL BE INSTALLED IN ACCORDANCE WITH ARLINGTON COUNTY REQUIREMENTS. CONTRACTOR SHALL CONFIRM MOUNTING LOCATION OF CCTV CAMERA WITH COUNTY PRIOR TO INSTALLATION.
10. CONTRACTOR TO VERIFY THE CONDUIT AND % FILL. IF THERE IS NOT ENOUGH CAPACITY IN CONDUIT, THEN THE CONTRACTOR SHALL INSTALL NEW CONDUIT.
11. ALL PROPOSED CONDUIT SHALL HAVE #6 AWG (EGC) & TRACER WIRE FOR GROUNDING SYSTEM.
12. REMOVE ALL EXISTING UNUSED RISERS, JUNCTION BOXES, AND CABLES.

F. SIGNS

1. ALL MAST ARM SIGNS SHALL BE MOUNTED IN ACCORDANCE WITH ARLINGTON COUNTY STANDARDS. SIGNS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR UNLESS DIRECTED OTHERWISE.
2. STREET NAME SIGNS SHALL HAVE A WHITE LEGEND ON GREEN BACKGROUND. CONTRACTOR SHALL SUBMIT SIGN DETAILS TO COUNTY TO REVIEW. THE DIMENSIONS PROVIDED ON PLANS ARE ESTIMATED.

G. DEMOLITION/SALVAGE

1. ALL EXISTING SIGNAL EQUIPMENT IS TO BE REMOVED & RETURNED TO ARLINGTON COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES LOCATED AT 4300 29TH ST S., ARLINGTON, VA 22206.
2. ALL EXISTING SIGNAL POLE FOUNDATIONS SHALL BE DEMOLISHED IN ACCORDANCE WITH ARLINGTON COUNTY SPECIFICATIONS. ANY REQUIRED RESTORATION RESULTING FROM THE REMOVAL OF EXISTING SIGNAL INFRASTRUCTURE SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REMEDY AND SHALL BE INCIDENTAL TO THE WORK.

H. COMMUNICATIONS

1. EXISTING COUNTY FIBER JUNCTION BOXES AND CONDUITS CONTAIN LIVE FIBER OPTIC CABLES. THE CONTRACTOR SHALL NOT CUT OR DAMAGE THE COUNTY'S EXISTING FIBER CABLES.
2. ALL FIBER OPTIC CABLE INSTALLATION, REMOVAL, SPLICING, AND TESTING SHALL BE PERFORMED BY THE COUNTY AT THE CONTRACTOR'S EXPENSE. CONTRACTOR MAY CONTRACT DIRECTLY WITH THE COUNTY'S FIBER CONTRACTORS. UPON REQUEST 703-228-7726, THE COUNTY WILL PROVIDE THE CONTACT INFORMATION FOR CURRENT QUALIFIED COUNTY FIBER CONTRACTORS.
3. CONTACT ARLINGTON COUNTY DTS FOR FIBER OPTIC CABLE REMOVAL OR INSTALLATION AT LEAST 10 BUSINESS DAYS IN ADVANCE.
4. CONTRACTOR SHALL FURNISH FIBER PATCH PANEL FOR INSTALLATION BY THE COUNTY. FIBER PIGTAIL SHALL BE APPROPRIATE LENGTH TO ALLOW FOR 50 FEET OF SLACK IN EACH INTERMEDIATE JUNCTION BOX. CONTRACTOR SHALL SUBMIT A SHOP DRAWING OF THE PATCH PANEL (INDICATING THE TAIL LENGTH) FOR COUNTY REVIEW PRIOR TO ORDERING.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF PROPOSED JUNCTION BOXES AND CONDUITS INCLUDING ALL APPURTENANCES SUCH AS GROUND RODS, TRACER WIRE, PULL TAPE, ETC.
6. ALL NEW CONDUITS SHALL HAVE PULL TAPE INSTALLED BETWEEN JUNCTION BOXES AND TRACER WIRE INSTALLED WITHIN OR BESIDE AT LEAST ONE OF THE CONDUITS. TRACER WIRE SHALL BE CONNECTED TO THE GROUND RODS INSTALLED IN THE ADJACENT JUNCTION BOXES.
7. DO NOT SPlice TRACER WIRE.

I. INSPECTIONS

1. THE CONTRACTOR SHALL CONTACT THE COUNTY CONSTRUCTION MANAGER FOR INSPECTIONS THROUGHOUT CONSTRUCTION AS REQUIRED BY THE CONSTRUCTION MANAGER.
2. THE COUNTY SHALL VERIFY POLE LOCATIONS PRIOR TO EXCAVATION. THE CONTRACTOR SHALL NOTIFY MR. SHAHID MOHIUDDIN, 703-228-7555 TO SCHEDULE INSPECTION PRIOR TO EXCAVATION, AND AGAIN PRIOR TO POURING CONCRETE. STAKEOUT IS THE RESPONSIBILITY OF THE CONTRACTOR UNLESS DIRECTED OTHERWISE.
3. THE CONTRACTOR SHALL CONTACT THE COUNTY CONSTRUCTION MANAGER WITHIN 7 BUSINESS DAYS OF SIGNAL ACTIVATION. ALL POWER AND COMMUNICATIONS SHALL BE IN OPERATION AT THE TIME OF ACTIVATION UNLESS APPROVED BY THE COUNTY CONSTRUCTION MANAGER.

J. ACCESSIBLE PEDESTRIAN SIGNAL (APS) MESSAGES

PUSHBUTTONS FOR CROSSINGS SHALL BE PROGRAMMED TO EMIT THE FOLLOWING INFORMATION SPEECH MESSAGES:

PUSHBUTTON	WAIT MESSAGE	WALK MESSAGE
PB-21, PB-22, PB-61, PB-62	WAIT TO CROSS EADS STREET AT GLEBE ROAD	PERCUSSIVE TONE
PB-41, PB-42, PB-81, PB-82	WAIT TO CROSS GLEBE ROAD AT EADS STREET	PERCUSSIVE TONE

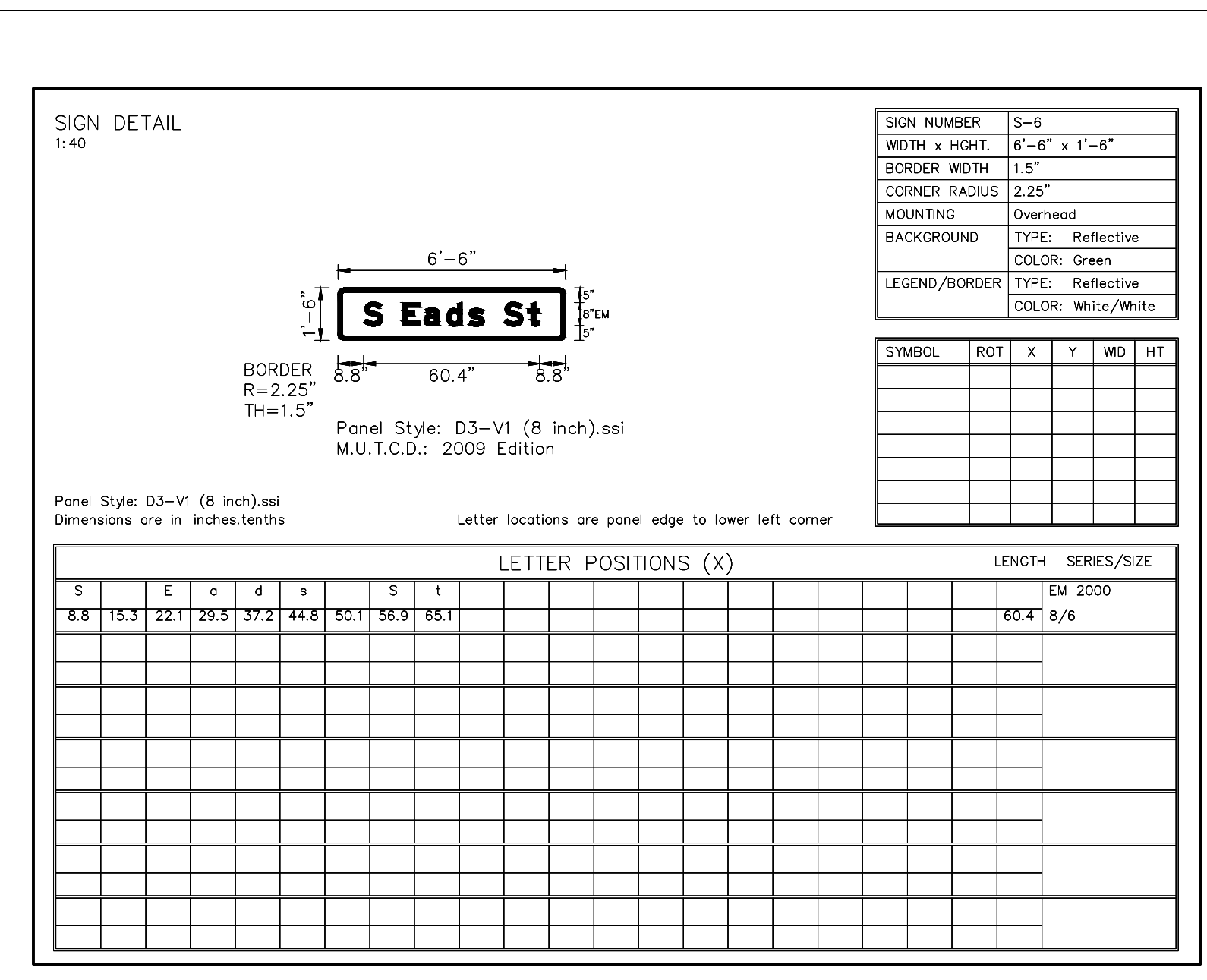
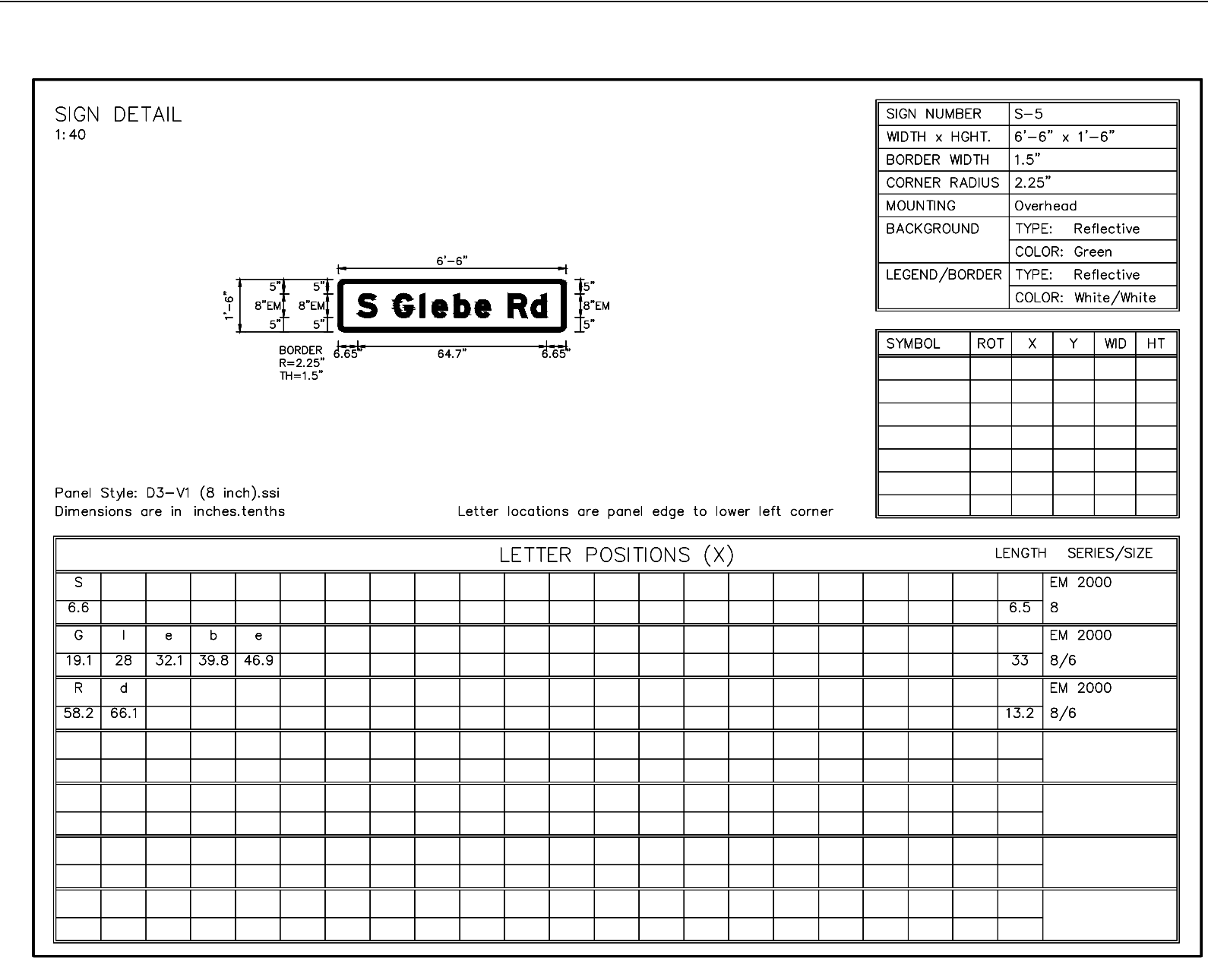
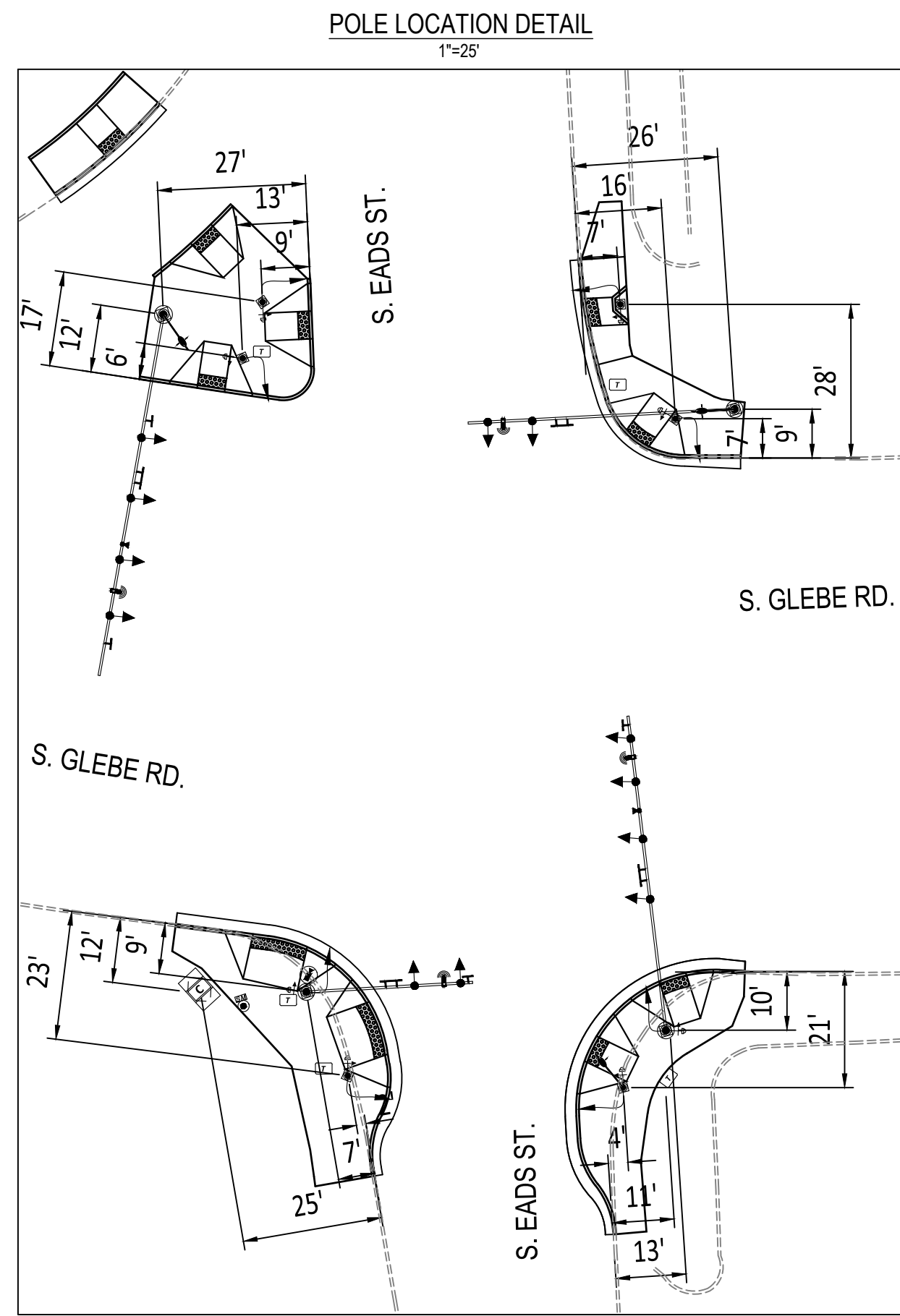
PEDESTRIAN PUSHBUTTON SIGN SHALL BE MOUNTED ABOVE PEDESTRIAN PUSHBUTTON

1. PER MUTCD SECTION 4E.11, WHERE TWO ACCESSIBLE PEDESTRIAN SIGNALS ARE SEPARATED BY A DISTANCE OF 10 FEET OR MORE, THE AUDIBLE WALK INDICATION SHALL BE A PERCUSSIVE TONE.
2. WHEN THE PEDESTRIAN PRESSES THE PUSHBUTTON, THE WAIT MESSAGE SHALL BE REPEATED FOR THE COMPLETE DURATION OF THE "DON'T WALK" PHASE
3. WHEN THE WALK PHASE BEGINS, THE WALK MESSAGE SHALL BE REPEATED FOR THE COMPLETE DURATION OF THE "WALK" PHASE.

CLEARANCE INTERVAL CHART

PHASES	2	4	6	8
CALCULATED MINIMUM	YELLOW 4.2	3.9	4.2	3.9
	RED 2.7	3.1	2.7	3.1
CONTROLLER INPUTS	YELLOW 4.2	3.9	4.2	3.9
	RED 2.7	3.1	2.7	3.1

- NOTES:
1. THE CALCULATED MINIMUMS SHOWN ON THE CLEARANCE INTERVAL CHART ARE THE CALCULATED MINIMUM INTERVALS USING VDOT MEMORANDUM TE-306 AND DO NOT INCLUDE PHASING OR OTHER CONSIDERATIONS AND ARE NOT TO BE USED IN THE CONTROLLER.



CONTROLLER TIMING CHART

PHASE	1	2	3	4	5	6	7	8
MOVEMENT	-	EB SOUTH GLEBE ROAD	-	NB SOUTH EADS ST	-	WB SOUTH GLEBE ROAD	-	SB SOUTH EADS ST
PHASE ON		X		X		X		X
PHASE OFF	X		X		X		X	
INTERVAL	PHASE TIMINGS							
MIN GREEN	-	5.0	-	5.0	-	5.0	-	8.0
PASSAGE	-	-	-	2.0	-	-	-	2.0
YELLOW	-	4.2	-	3.9	-	4.2	-	3.9
RED	-	2.7	-	3.1	-	2.7	-	3.1
MAX 1	-	40.0	-	20.0	-	40.0	-	20.0
MAX 2	-	0.0	-	0.0	-	0.0	-	0.0
MIN GAP	-	-	-	2.0	-	-	-	2.0
TIME BEFORE REDUCTION	-	0.0	-	0.0	-	0.0	-	0.0
TIME TO REDUCE	-	0.0	-	0.0	-	0.0	-	0.0
LEADING PED WALK	-	0.0	-	0.0	-	0.0	-	0.0
PED WALK	-	7.0	-	7.0	-	7.0	-	7.0
PED CLEARANCE	-	11.0	-	29.0	-	14.0	-	28.0
MODE	-	MAX RECALL	-	NON-LOCK	-	MAX RECALL	-	NON-LOCK



DEPARTMENT OF ENVIRONMENTAL SERVICES

Transportation Engineering and Operations Bureau
2100 Clarendon Boulevard, Suite 900
Arlington, VA 22201
Phone: 703.228.3344
Fax: 703.228.3719



APPROVALS DATE

<i>Andrew S. Moy</i>	08/19/2022
TRAFFIC SIGNAL ENGINEER	
<i>John Nabe</i>	08/24/2022
TRAFFIC ENGINEERING MANAGER	
<i>John Nabe</i>	9/1/22
WATER, SEWER, STREETS BUREAU CHIEF	
<i>John Nabe</i>	08/26/2022
TE&O BUREAU CHIEF	
<i>Donna M. Leach</i>	08/29/2022
TRANSPORTATION DIRECTOR	

Revisions Date

Revisions	Date

Traffic Signal Notes
ID #148

S. GLEBE ROAD
INTERSECTION IMPROVEMENTS
AT S. EADS STREET

DESIGNED: ZDH
DRAWN: ZDH
CHECKED: ASM
MISS UTILITY TRANSMITTAL #: xxx
FILENAME: T085-148-11-Signal_Notes.dwg
PATH: Orders\T0_010_GlebeEads\cadd\Sheets
PLOTTED: June 07, 2022
PLOTTED BY: jkiser

SCALE: N/A

SHEET 11 of 13A

- NOTES:**
- ALL JUNCTION BOX LIDS WITHIN THE PEDESTRIAN WALKWAYS SHALL BE ADA-COMPLIANT AND SLIP RESISTANT.
 - ALL SIGNAL AND ELECTRICAL CONDUITS SHALL BE HDPE SCHEDULE 40. COMMUNICATIONS CONDUIT SHALL BE HDPE SCHEDULE 80.
 - ALL SIGNAL HEADS SHALL BE AT LEAST 8' APART, PER MUTCD REQUIREMENTS. ALL MAST-ARM-MOUNTED SIGNS SHALL BE AT LEAST 1' FROM THE NEAREST SIGNAL HEAD.
 - CABINET SHALL HAVE CONDUITS AS SHOWN ON STANDARD 66-01.
 - MINIMUM CLEARANCE TO OVERHEAD ELECTRIC LINES SHALL BE 15' AT ALL TIMES, AS DICTATED BY OSHA. SPECIAL EQUIPMENT MAY BE REQUIRED TO WORK IN THESE AREAS
 - ALL PROPOSED PEDESTAL POLES, MAST ARMS, AND PEDESTRIAN PUSH BUTTON EXTENDERS SHALL BE POWDER-COATED BLACK.
 - CONTRACTOR TO COMPLETE CLEARING AND GRUBBING BEFORE INSTALLING PROPOSED SIGNAL EQUIPMENT.
 - EXISTING COUNTY FIBER BOX TO BE RELOCATED OR ADJUSTED TO FINAL GRADE.
 - CONTRACTOR IS RESPONSIBLE FOR REPLACING ANY EXISTING SIDEWALK THAT IS IMPACTED BY THE INSTALLATION OF SIGNAL EQUIPMENT.
 - SEE SHEET 11 FOR APS PUSHBUTTON MESSAGES.
 - SIGNAL POLE FOUNDATIONS SHALL BE DESIGNED IN ACCORDANCE WITH COUNTY SIGNAL POLE FOUNDATION STANDARDS, SPECIAL PROVISIONS, INCLUDING MAXIMUM LOADING CONDITIONS, AND BASED ON SOIL TEST BORE FINDINGS. ALL TRAFFIC SIGNAL POLE FOUNDATIONS SHALL BE SIGNED AND SEALED BY A VIRGINIA LICENSED PROFESSIONAL ENGINEER AND APPROVED BY THE COUNTY. THE TOP OF ALL SIGNAL POLE FOUNDATIONS SHOULD BE INSTALLED SUCH THAT MINIMUM AND MAXIMUM CLEARANCES TO SIGNAL HEADS AND MAST ARM EQUIPMENT ARE MAINTAINED IN ACCORDANCE WITH THE MAST ARM SIGNAL POLE STANDARD AND THE MUTCD.
 - ALL MAST ARM POLES SHALL BE NON-ORNAMENTAL IN ACCORDANCE WITH ARLINGTON COUNTY STANDARD 62-01 THROUGH 62-10.

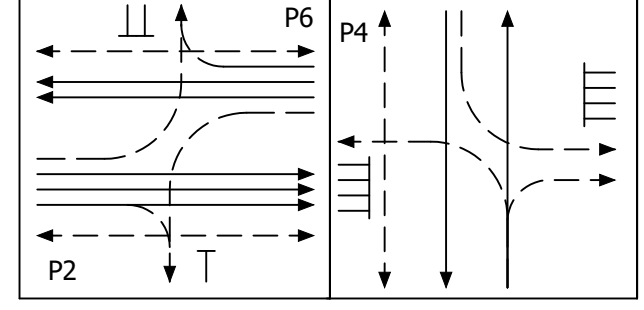
DEMOLITION & CONSTRUCTION NOTES

- REMOVE EXISTING CABINETS & CONTROLLER. SALVAGED EXISTING EQUIPMENT TO BE RETURN TO ARLINGTON PROPERTY YARD.
- REMOVE EXISTING STRAIN POLE, MAST ARM, SIGNAL HEADS, AND ASSOCIATED WIRING.
- INSTALL SERVICE METER PEDESTAL AND CONTRACTOR SHALL COORDINATE WITH DE TO DETERMINE THE SOURCE OF ELECTRICAL SERVICE.
- INSTALL TRAFFIC SIGNAL CABINET, 12" CABINET RISER, FOUNDATION, UPS, AND ASSOCIATED EQUIPMENT.
- INSTALL NON-ORNAMENTAL TRAFFIC SIGNAL MAST ARM POLE & FOUNDATION WITH LUMINAIRE, SIGNALS, SIGNS, POLE IDENTIFICATION STICKER, AND EQUIPMENT AS SHOWN.
- INSTALL 12' PEDESTAL POLE & FOUNDATION WITH PEDESTRIAN SIGNAL HEAD(S), PUSHBUTTON(S), POLE IDENTIFICATION STICKER, AND EQUIPMENT AS SHOWN.
- REMOVE EXISTING TRAFFIC JUNCTION BOX
- INSTALL 30" OCTAFLUTE POLE & FOUNDATION WITH LUMINAIRE, PEDESTRIAN SIGNAL HEAD(S), PUSHBUTTON(S), POLE IDENTIFICATION STICKER, AND EQUIPMENT AS SHOWN.

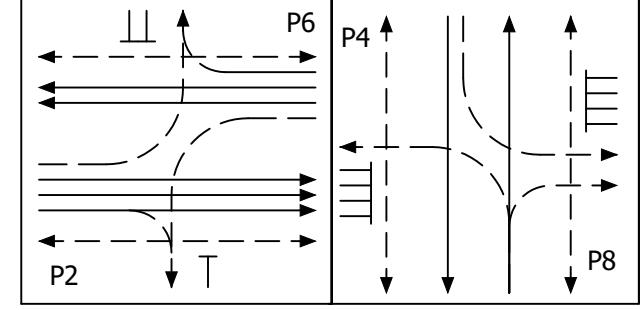
PROPOSED MAST ARM DETAILS

- SIGNAL POLE 1**
30' MAST ARM
PROPOSED SIGNAL LOCATIONS: 20', 28'
PROPOSED SIGN LOCATIONS: 15'
PROPOSED VDC LOCATION: 25'
- SIGNAL POLE 2**
66' MAST ARM
PROPOSED SIGNAL LOCATIONS: 22', 33', 44', 55'
PROPOSED SIGN LOCATIONS: 19', 30', 60'
PROPOSED VDC LOCATION: 51'
PROPOSED EVP LOCATION: 42'
- SIGNAL POLE 3**
48' MAST ARM
PROPOSED SIGNAL LOCATIONS: 36', 44'
PROPOSED SIGN LOCATIONS: 31'
PROPOSED VDC LOCATION: 42'
- SIGNAL POLE 4**
57' MAST ARM
PROPOSED SIGNAL LOCATIONS: 24', 35', 45', 53'
PROPOSED SIGN LOCATIONS: 28, 55'
PROPOSED VDC LOCATION: 50'
PROPOSED EVP LOCATION: 40'
- NOTE: ALL DIMENSIONS MEASURED FROM CENTER OF MAST ARM POLE.

EXISTING PHASING DIAGRAM



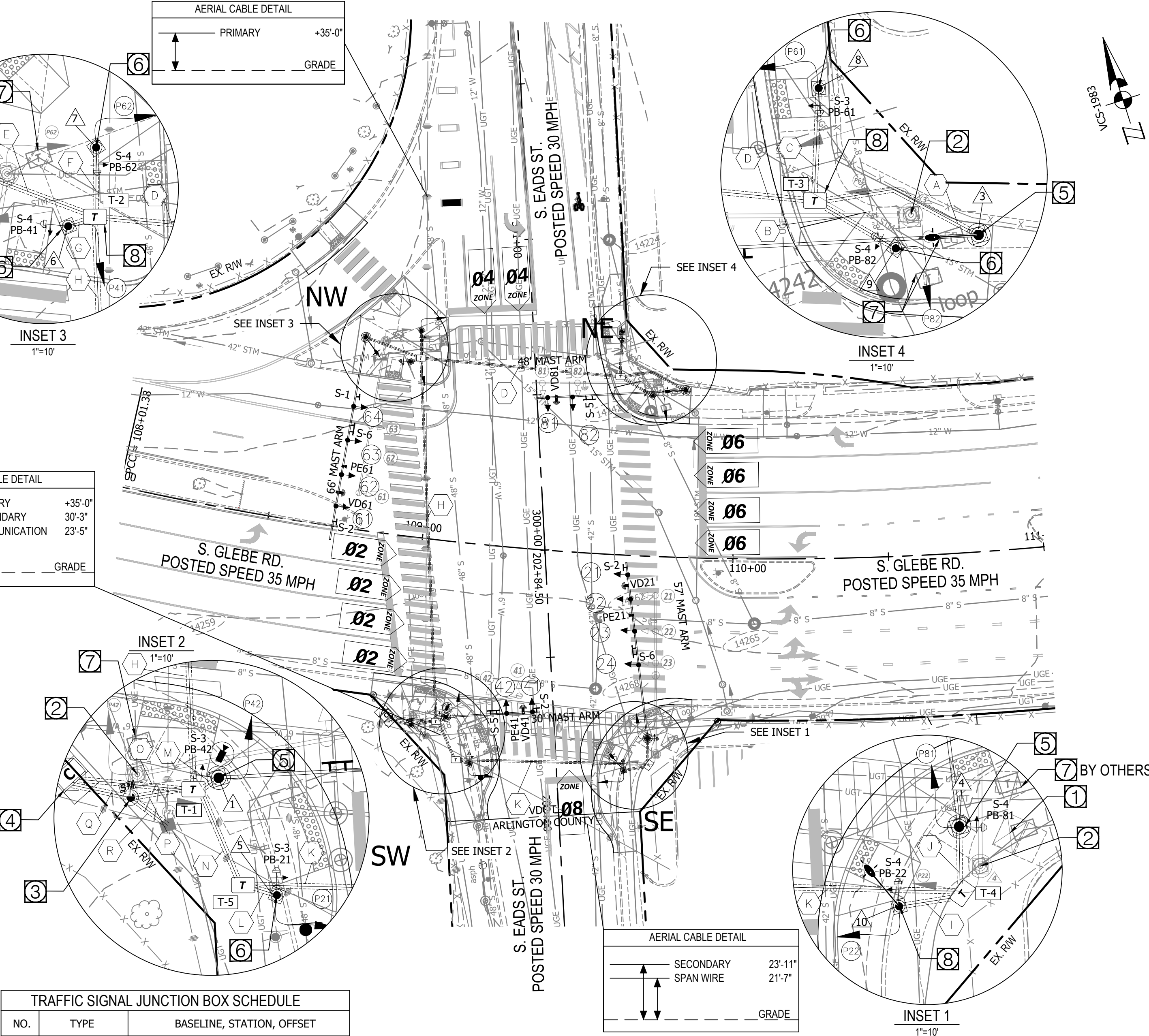
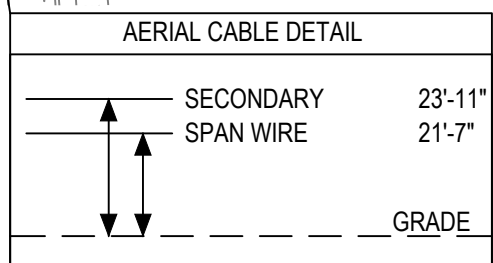
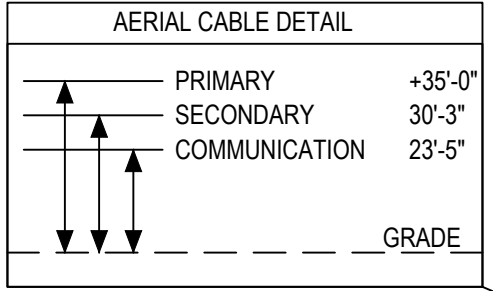
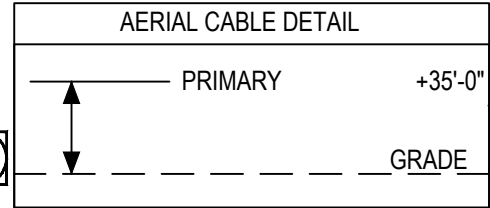
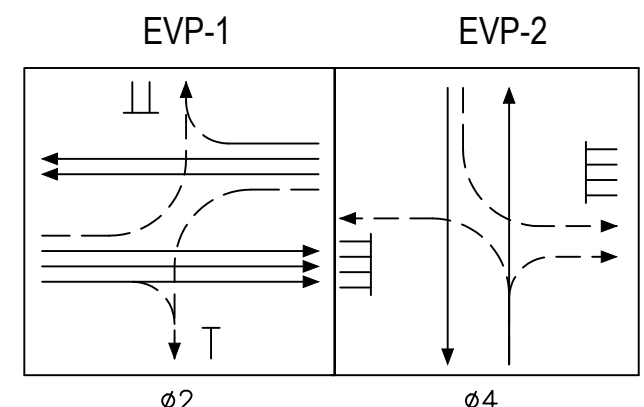
PROPOSED PHASING DIAGRAM



EV PREEMPTION

FUNCTION	EVP-1	EVP-2
INTERVAL 1 - DWELL GREEN	120	120
INTERVAL 1 - DWELL YELLOW	0.0*	0.0*
INTERVAL 1 - DWELL RED	0.0*	0.0*
INTERVAL 1 - EXIT GREEN	1.0	1.0
INTERVAL 5 - YELLOW	0.0	0.0
INTERVAL 5 - RED	0.0	0.0
DELAY TIME	1.0	1.0
PED CLEAR BEFORE PRE	0.0	0.0
YELLOW CLEAR BEFORE PRE	0.0*	0.0*
RED CLEAR BEFORE PRE	0.0*	0.0*
DWELL MIN	7.9	7.9
ENABLE BACKUP PROTECTION	Y	Y
PED CLEAR THROUGH YELLOW	Y	Y
EXIST PHASE/TIME	IN STEP	2 + 6

*TIME DEFAULTS TO TIME USED FOR PHASE DURING NORMAL OPERATION.



NO.	TYPE	BASELINE, STATION, OFFSET
T-1	61-04, TYPE 3	SOUTH GLEBE RD., 109+10.51, 57.96' RT.
T-2	61-04, TYPE 3	SOUTH GLEBE RD., 108+92.24, 57.41' LT.
T-3	61-04, TYPE 3	SOUTH GLEBE RD., 109+60.88, 57.26' LT.
T-4	61-04, TYPE 3	SOUTH GLEBE RD., 109+75.08, 66.56' RT.
T-5	61-04, TYPE 3	SOUTH GLEBE RD., 109+19.08, 73.86' RT.

PHASE	2	4	6	8	2+6	4+8
SIGNAL R/W						
21, 22, 23	G			G	Y	
41, 42		G			G	R
61, 62, 63			G			Y
81, 82				G	G	R
P21, P22	W			W		BLANK
P41, P42		W			W	BLANK
P61, P62			W		W	BLANK
P81, P82				W	W	BLANK

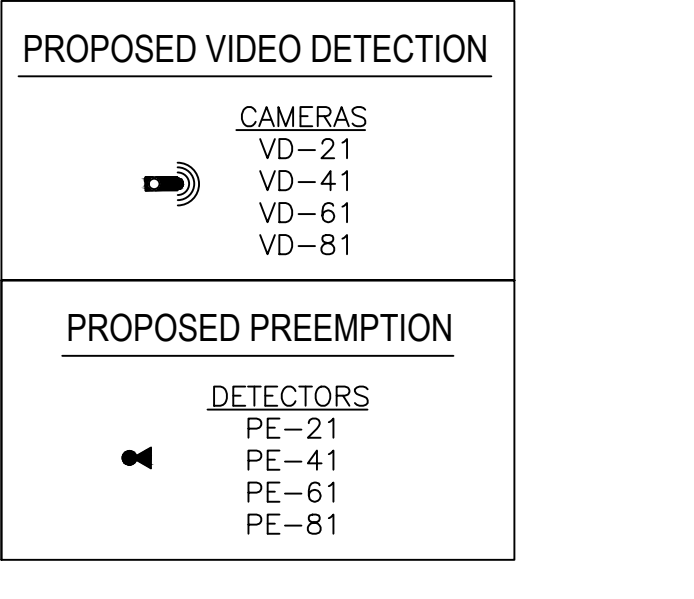
NOTE: BLANK SPACES DENOTE RED INDICATIONS. WALK INDICATION DISPLAYED AFTER PEDESTRIAN CALL SERVICED, OTHERWISE "DON'T WALK" WILL BE DISPLAYED.

NO.	ID	TYPE	SIG. M.A.	M.A. ORIENT.	FOUNDATION	LUMINAIRE		POLE SIGNAL MOUNTING				STREET NAME SIGN	BASELINE, STATION, OFFSET
						LABEL	ORIENTATION (REL. TO MAST ARM)	VEHICLE & PED HEADS	PED PUSH BUTTONS	SIGNS	VIDEO DETECTOR AND PREEMPTION		
1	148-MA-01-SW	MAST ARM POLE 22'	30'	180°	SEE NOTE 11	-	-	41,42,P42	PB-42	S-2, S-3, S-5	VD41	S-5	SOUTH GLEBE RD., 109+13.17, 56.52' RT.
2	148-MA-01-MN	MAST ARM POLE 30'	66'	180°	SEE NOTE 11	SL-1	135°	61,62,63,64	-	S-1, S-2, S-6	VD61, PE61	S-6	SOUTH GLEBE RD., 108+72.66, 61.59' LT.
3	148-MA-01-NE	MAST ARM POLE 30'	48'	180°	SEE NOTE 11	SL-2	180°	81,82	-	S-5	PE 41, VD81, PE81	S-5	SOUTH GLEBE RD., 109+83.22, 53.70' LT.
4	148-MA-01-SE	MAST ARM POLE 22'	57'	180°	SEE NOTE 11	-	-	21,22,23,24	PB-81*	S-2, S-4, S-6	VD21, PE21	S-6	SOUTH GLEBE RD., 109+75.88, 57.35' RT.
5	148-PP-01-SW	PEDESTAL POLE 12'	-	-	66-04	-	-	-	P21	S-3	-	-	SOUTH GLEBE RD., 109+21.06, 68.18' RT.
6	148-PP-01-NW	PEDESTAL POLE 12'	-	-	66-04	-	-	-	P41	S-4	-	-	SOUTH GLEBE RD., 108+88.81, 55.73' LT.
7	148-PP-02-NW	PEDESTAL POLE 12'	-	-	66-04	-	-	-	P62	S-4	-	-	SOUTH GLEBE RD., 108+91.28, 66.22' LT.
8	148-PP-01-NE	PEDESTAL POLE 12'	-	-	66-04	-	-	-	P61	S-3	-	-	SOUTH GLEBE RD., 109+60.40, 71.68' LT.
9	148-PP-02-NE	PEDESTAL POLE 12'	-	-	66-04	-	-	-	P82	S-4	-	-	SOUTH GLEBE RD., 109+71.66, 51.36' LT.
10	148-PP-01-SE	ARL. COUNTY OCTAFLUTE ALUMINUM POLE	-	-	14080-04	SL-7	180°	-	P22	S-4	-	-	SOUTH GLEBE RD., 109+67.95, 69.01' RT.

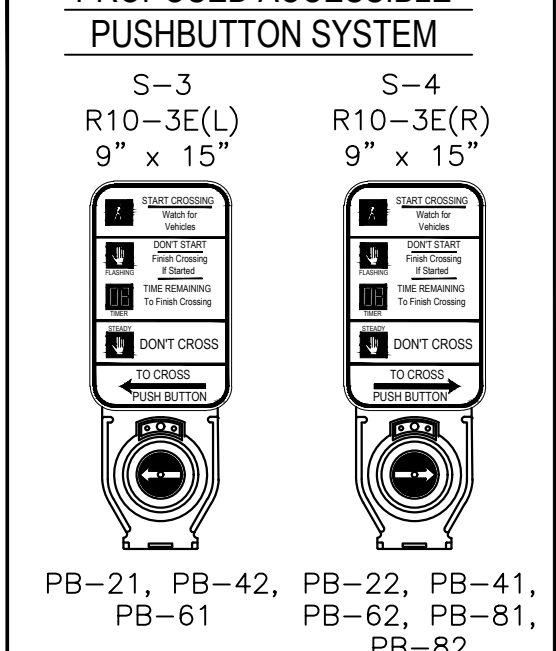
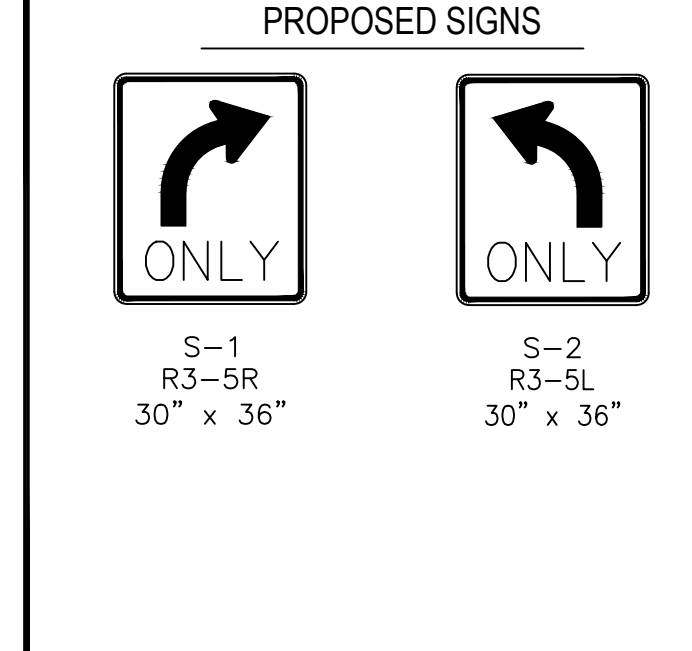
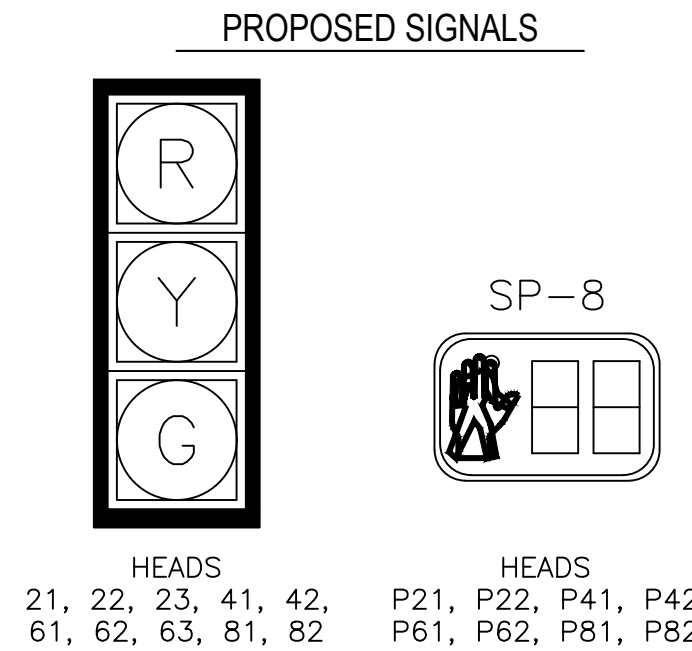
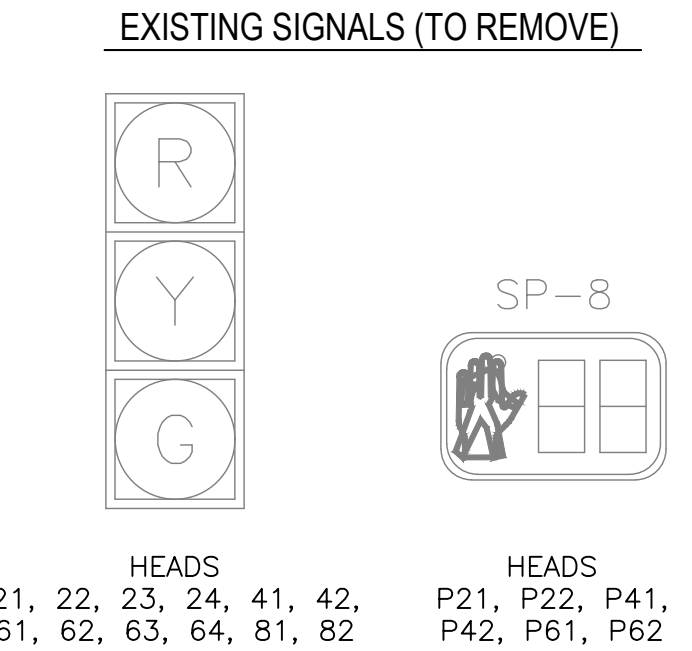
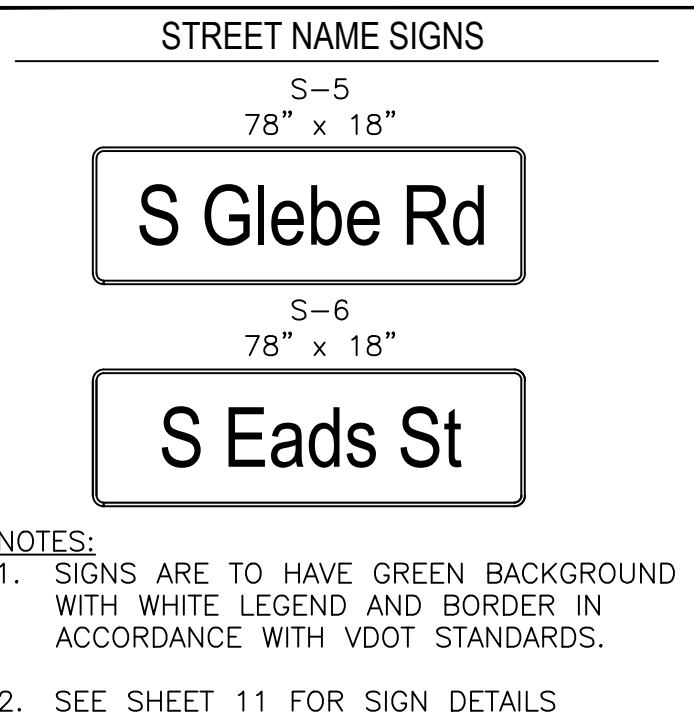
*INSTALL PUSHBUTTON WITH BLACK 12" MOUNTING EXTENDER.

CABLE & CONDUIT RUNS

- 1-3" CONDUIT (TRENCH)
 - 1-14/7C SIGNAL HEADS 81/82
 - 1-RG-59 FOR VIDEO DETECTION VD81
 - 1-12/2C LUMINAIRE SL-2
 - 1-#6 AWG (EGC)
- 1-3" CONDUIT (TRENCH) SPARE(S) FOR FUTURE USE
- 1-3" CONDUIT (TRENCH)
 - 1-14/7C PEDESTRIAN SIGNAL P82
 - 1-14/3C PEDESTRIAN PUSHBUTTON PB-82
 - 1-#6 AWG (EGC)
- 1-3" CONDUIT (TRENCH)
 - 1-14/7C PEDESTRIAN SIGNAL P61
 - 1-14/3C PEDESTRIAN PUSHBUTTON PB-61
 - 1-#6 AWG (EGC)
- 1-3" CONDUIT (DIRECT BORE)
 - 1-14/7C SIGNAL HEADS 81/82
 - 2-14/7C PEDESTRIAN SIGNALS P61, P82
 - 2-14/3C PEDESTRIAN PUSHBUTTON PB-61, PB-82
 - 1-RG-59 FOR VIDEO DETECTION VD81
 - 1-12/2C LUMINAIRE SL-2
 - 1-#6 AWG (EGC)
- 1-3" CONDUIT (TRENCH) SPARE(S) FOR FUTURE USE
- 1-3" CONDUIT (TRENCH)
 - 1-14/7C SIGNAL HEADS 61/62/63
 - 1-RG-59 FOR VIDEO DETECTION VD61
 - 1-PREEMPTION CABLE PE61
 - 1-12/2C LUMINAIRE SL-1
 - 1-#6 AWG (EGC)
- 1-3" CONDUIT (TRENCH) SPARE(S) FOR FUTURE USE
- 1-3" CONDUIT (TRENCH)
 - 1-14/7C PEDESTRIAN SIGNAL P62
 - 1-14/3C PEDESTRIAN PUSHBUTTON PB-62
 - 1-#6 AWG (EGC)
- 1-3" CONDUIT (TRENCH)
 - 1-14/7C PEDESTRIAN SIGNAL P41
 - 1-14/3C PEDESTRIAN PUSHBUTTON PB-41
 - 1-#6 AWG (EGC)
- 1-3" CONDUIT (DIRECT BORE)
 - 2-14/7C SIGNAL HEADS 61/62/63, 81/82
 - 4-14/7C PEDESTRIAN SIGNALS P41, P61, P62, P82
 - 4-14/3C PEDESTRIAN PUSHBUTTON PB-41, PB-61, PB-62, PB-82
 - 2-RG-59 FOR VIDEO DETECTION VD-61, VD81
 - 1-PREEMPTION CABLE PE61
 - 2-12/2C LUMINAIRE SL-1, SL-2
 - 1-#6 AWG (EGC)
- 1-3" CONDUIT (DIRECT BORE) SPARE(S) FOR FUTURE USE
- 1-3" CONDUIT (TRENCH)
 - 1-14/7C PEDESTRIAN SIGNAL P22
 - 1-14/3C PEDESTRIAN PUSHBUTTON PB-22
 - 1-12/2C LUMINAIRE SL-7
 - 1-#6 AWG (EGC)
- 1-3" CONDUIT (TRENCH) SPARE(S) FOR FUTURE USE
- 1-3" CONDUIT (TRENCH)
 - 1-14/7C SIGNAL HEADS 21/22/23/24
 - 1-14/7C PEDESTRIAN SIGNAL P81
 - 1-14/3C PEDESTRIAN PUSHBUTTON PB-81
 - 1-RG-59 FOR VIDEO DETECTION VD21
 - 1-PREEMPTION CABLE PE21
 - 1-#6 AWG (EGC)
- 1-3" CONDUIT (DIRECT BORE) SPARE(S) FOR FUTURE USE
- 1-3" CONDUIT (TRENCH)
 - 1-14/7C SIGNAL HEADS 21/22/23
 - 2-14/7C PEDESTRIAN SIGNALS P22, P81
 - 2-14/3C PEDESTRIAN PUSHBUTTON PB-22, PB-81
 - 1-RG-59 FOR VIDEO DETECTION VD21
 - 1-PREEMPTION CABLE PE21
 - 1-12/2C LUMINAIRE SL-7
 - 1-#6 AWG (EGC)
- 1-3" CONDUIT (DIRECT BORE) SPARE(S) FOR FUTURE USE
- 1-3" CONDUIT (TRENCH)
 - 8-14/7C PEDESTRIAN SIGNALS P21, P22, P41, P42, P61, P62, P81, P82
 - 8-14/3C PEDESTRIAN PUSHBUTTON PB-21, PB-22, PB-41, PB-42, PB-61, PB-62, PB-81, PB-82
 - 1-#6 AWG (EGC)
- 1-3" CONDUIT (TRENCH)
 - 8-14/7C PEDESTRIAN SIGNALS P21, P22, P41, P42, P61, P62, P81, P82
 - 8-14/3C PEDESTRIAN PUSHBUTTON PB-21, PB-22, PB-41, PB-42, PB-61, PB-62, PB-81, PB-82
 - 1-#6 AWG (EGC)
- 1-3" CONDUIT (TRENCH) SPARE(S) FOR FUTURE USE
- 1-2" CONDUIT (TRENCH) SPARE(S) FOR FUTURE USE
- 1-2" CONDUIT (TRENCH)
 - 1-CCTV LEAD-IN CABLE
 - 1-#6 AWG (EGC)
- 1-1" CONDUIT (TRENCH)
 - 1-6/4C ELECTRICAL SERVICE CABLE
 - 1-#6 AWG (EGC)
- 1-1" CONDUIT (TRENCH)
 - EMPTY FOR DE USE



LEGEND	EXISTING	PROPOSED
CONTROL CABINET W/ UNINTERRUPTIBLE POWER SUPPLY (UPS)	[Symbol]	[Symbol]
SIGNAL JUNCTION BOX	[Symbol]	[Symbol]
ELECTRICAL CONNECTION POINT	[Symbol]	[Symbol]
STRAIN POLE AND SPAN WIRE	[Symbol]	[Symbol]
MAST ARM POLE & FOUNDATION	[Symbol]	[Symbol]
PEDESTRIAN PEDESTAL POLE & FOUNDATION	[Symbol]	[Symbol]
TRAFFIC SIGNAL HEAD	[Symbol]	[Symbol]
PEDESTRIAN SIGNAL HEAD	[Symbol]	[Symbol]
PEDESTRIAN PUSHBUTTON	[Symbol]	[Symbol]
CCTV	[Symbol]	[Symbol]
PRE-EMPTION	[Symbol]	[Symbol]
VIDEO DETECTION CAMERA	[Symbol]	[Symbol]
VIDEO DETECTION ZONE W/ PHASE NUMBER	[Symbol]	[Symbol]
SERVICE METER	[Symbol]	[Symbol]
CONDUIT RUN	[Symbol]	[Symbol]



ARLINGTON VIRGINIA
DEPARTMENT OF ENVIRONMENTAL SERVICES
Transportation Engineering and Operations Bureau
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Seal: COMMONWEALTH OF VIRGINIA
ANDREW S. MOY
Lic. No. 054435
6/10/2022
PROFESSIONAL ENGINEER

APPROVALS DATE
[Signature] 08/19/2022
[Signature] 08/24/2022
[Signature] 9/1/22
[Signature] 08/26/2022
[Signature] 08/29/2022

Revisions	Date

TRAFFIC SIGNAL PLAN ID #148
S. GLEBE ROAD INTERSECTION IMPROVEMENTS AT S. EADS STREET

DESIGNED: JMK
DRAWN: JMK
CHECKED: ASM
MISS UTILITY TRANSMITTAL #: xxx
FILENAME: T08S-148-11A-Signal_Plan.dwg
PATH: Orders\T0_010_GlebeEads\add\Sheets
PLOTTED: June 10, 2022
PLOTTER: jksiser
SCALE:
0' 25' 50'
GRAPHIC SCALE
SHEET 11A of 13A

CONSTRUCTION NOTES

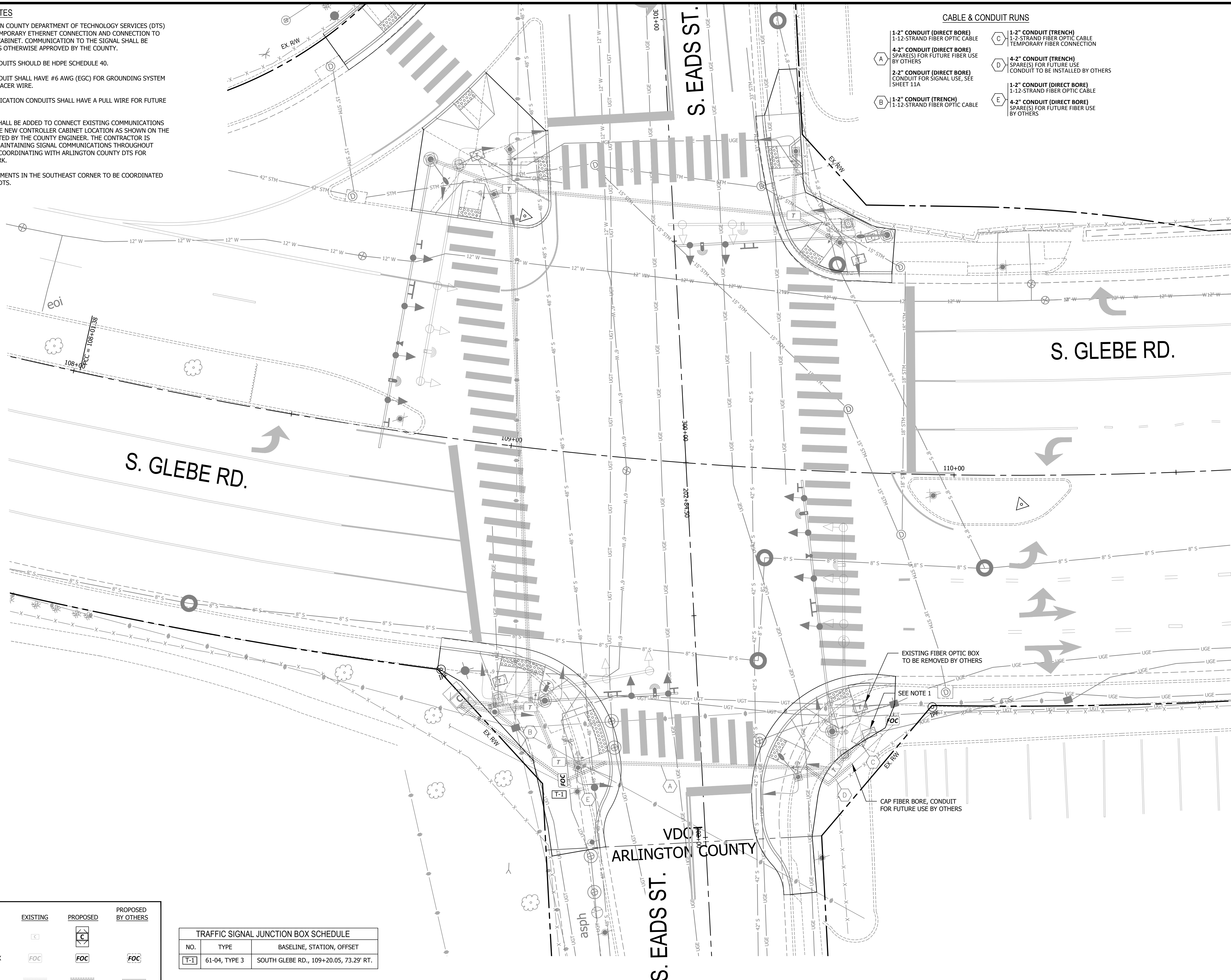
- CONTACT ARLINGTON COUNTY DEPARTMENT OF TECHNOLOGY SERVICES (DTS) TO COORDINATE TEMPORARY ETHERNET CONNECTION AND CONNECTION TO PROPOSED SIGNAL CABINET. COMMUNICATION TO THE SIGNAL SHALL BE MAINTAINED UNLESS OTHERWISE APPROVED BY THE COUNTY.
- ALL PROPOSED CONDUITS SHOULD BE HDPE SCHEDULE 40.
- ALL PROPOSED CONDUIT SHALL HAVE #6 AWG (EGC) FOR GROUNDING SYSTEM AND SHALL HAVE TRACER WIRE.
- PROPOSED COMMUNICATION CONDUITS SHALL HAVE A PULL WIRE FOR FUTURE FIBER OPTIC CABLE.
- CONDUIT SYSTEM SHALL BE ADDED TO CONNECT EXISTING COMMUNICATIONS CABLE PLANT TO THE NEW CONTROLLER CABINET LOCATION AS SHOWN ON THE PLANS OR AS DIRECTED BY THE COUNTY ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING SIGNAL COMMUNICATIONS THROUGHOUT CONSTRUCTION BY COORDINATING WITH ARLINGTON COUNTY DTS FOR FIBER-RELATED WORK.
- PROPOSED IMPROVEMENTS IN THE SOUTHEAST CORNER TO BE COORDINATED AND STAGED WITH DTS.

CABLE & CONDUIT RUNS

- | | |
|---|---|
| A 1-2" CONDUIT (DIRECT BORE)
1-12-STRAND FIBER OPTIC CABLE
SPARE(S) FOR FUTURE FIBER USE BY OTHERS | C 1-2" CONDUIT (TRENCH)
1-2-STRAND FIBER OPTIC CABLE
TEMPORARY FIBER CONNECTION |
| B 2-2" CONDUIT (DIRECT BORE)
CONDUIT FOR SIGNAL USE, SEE SHEET 11A | D 4-2" CONDUIT (TRENCH)
SPARE(S) FOR FUTURE USE
CONDUIT TO BE INSTALLED BY OTHERS |
| E 1-2" CONDUIT (TRENCH)
1-12-STRAND FIBER OPTIC CABLE | F 1-2" CONDUIT (DIRECT BORE)
1-12-STRAND FIBER OPTIC CABLE
SPARE(S) FOR FUTURE FIBER USE BY OTHERS |

DESIGNED BY: RUMMEL, KLEPPER, & KAHL, LLP, ANDREW MOY, PE (703-246-0028)
SURVEYED BY: ARLINGTON COUNTY GOV., DES DATE: JULY 2020

PROJECT MANAGER: ANDREW HAYES, PE, PTOE (571-243-1120)
SURVEYED BY: ARLINGTON COUNTY GOV., DES DATE: JULY 2020

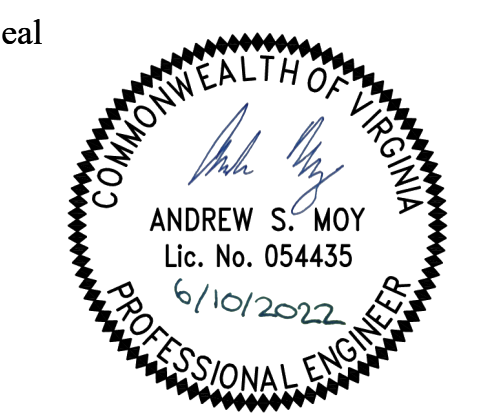


LEGEND	EXISTING	PROPOSED	PROPOSED BY OTHERS
CONTROL CABINET W/ UPS			
FIBER OPTIC JUNCTION BOX			
CONDUIT RUN			

TRAFFIC SIGNAL JUNCTION BOX SCHEDULE		
NO.	TYPE	BASELINE, STATION, OFFSET
T-1	61-04, TYPE 3	SOUTH GLEBE RD., 109+20.05, 73.29' RT.



DEPARTMENT OF ENVIRONMENTAL SERVICES
Transportation Engineering and Operations Bureau
2100 Clarendon Boulevard, Suite 900
Arlington, VA 22201
Phone: 703.228.3344
Fax: 703.228.3719

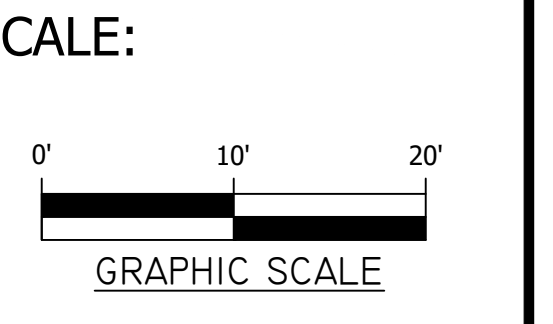


APPROVALS	DATE
	08/19/2022
	08/24/2022
	9/1/22
	08/26/2022
	08/29/2022

Revisions	Date

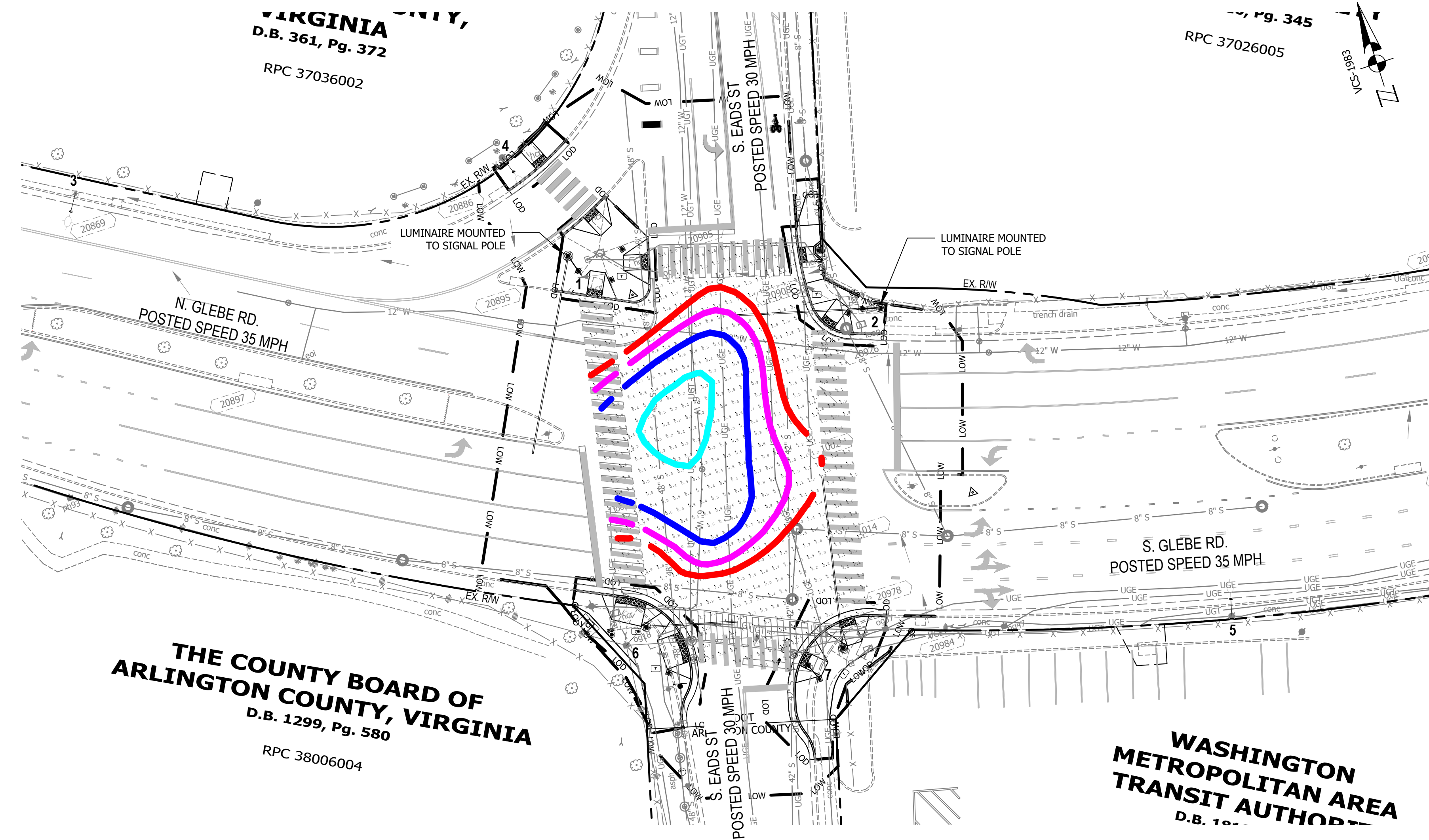
COMMUNICATIONS PLAN
ID #148
S. GLEBE ROAD
INTERSECTION IMPROVEMENTS
AT S. EADS STREET
T808

DESIGNED: JMK
DRAWN: JMK
CHECKED: ASM
MISS UTILITY TRANSMITTAL #: xxx
FILENAME: T08S-148-11B-Communications_Plan.dwg
PATH: Orders\T0_010_GlebeEads\cadd\Sheets
PLOTTED: June 06, 2022
PLOTTED BY: kmita



DESIGNED BY: RUMMEL, KLEPPER, & KAHL, LLP, ANDREW MOY, PE (703-246-0028)
 SURVEYED BY: ARLINGTON COUNTY GOV., DES DATE: JULY 2020

PROJECT MANAGER: ANDREW HAYES, PE, PTOE (571-243-1120) DATE: JULY 2020
 SURVEYED BY: ARLINGTON COUNTY GOV., DES



THE COUNTY BOARD OF
 ARLINGTON COUNTY, VIRGINIA
 D.B. 1299, Pg. 580
 RPC 38006004

RPC 37026005
 Pg. 345
 3085-SCA

POLE SCHEDULE							
POLE TYPE	STANDARD # (COUNTY ONLY)	QUANTITY	MATERIAL	HEIGHT	COLOR	FOUNDATION TYPE	STOCK NUMBER (DOMINION ONLY)
MAST ARM	62-01	2	STEEL	30	BLACK	ON-FOUNDATION	N/A
STREETLIGHT POLE	14080-04	1	ALUMINUM	30	BLACK	DIRECT-BURIED	N/A

ARM SCHEDULE						
ARM TYPE	STANDARD # (COUNTY ONLY)	QUANTITY	MATERIAL	LENGTH	COLOR	STOCK NUMBER (DOMINION ONLY)
STANDARD	14090-01	2	ALUMINUM	6'	BLACK	N/A
UPSWEEP	14090-01	1	ALUMINUM	6'	BLACK	N/A

LUMINAIRE SCHEDULE								
LUMINAIRE TYPE	STANDARD # (COUNTY ONLY)	DRAWING SYMBOL	QUANTITY	WATTAGE	CCT	HOUSING COLOR	DISTRIBUTION TYPE	STOCK NUMBER (DOMINION ONLY)
LED	14110-03	??	3	145	4000K	BLACK	TYPE III	N/A

Luminaire Legend									
Luminaire ID Number	Pole Type	Luminaire Wattle/Type	Light Loss Factor (LLF)	Mounting Height	Color Temperature	Distribution	Initial Lumens	Finish	Baseline, Station, Offset
1	Arl. Co. Mast Arm Pole	145W Cobrahead LED	0.90	32'	4000K	Type III	16,046	Per Signal Plans	Per Signal Plans
2	Arl. Co. Mast Arm Pole	145W Cobrahead LED	0.90	32'	4000K	Type III	16,046	Per Signal Plans	Per Signal Plans
3*	Ex. Dominion Pole	150 Cobrahead LED	0.90	Ex. Mounting Height	4000K	Type II	9,125	N/A	N/A
4*	Ex. Dominion Pole	150 Cobrahead LED	0.90	Ex. Mounting Height	4000K	Type II	9,125	N/A	N/A
5*	Ex. Dominion Pole	150 Cobrahead LED	0.90	Ex. Mounting Height	4000K	Type II	9,125	N/A	N/A
6*	Ex. Utility Pole	150 Cobrahead LED	0.90	Ex. Mounting Height	4000K	Type II	9,125	N/A	N/A
7	Arl. Co. Octaflute Aluminum Pole	145W Cobrahead LED	0.90	30'	4000K	Type III	16,046	Per Signal Plans	Per Signal Plans

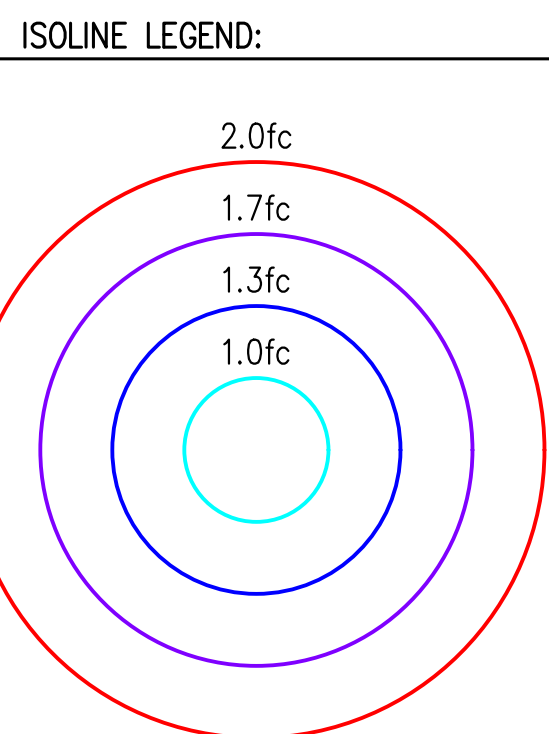
* EXISTING LUMINAIRE TO BE REPLACED WITH LED FIXTURES AS SPECIFIED IN THESE PLANS BY OTHERS

South Glebe Rd at South Eads St: Photometric Analysis Results					
	Avg.	Max.	Min.	Avg/Min ³	Max/Min ³
Intersection Criteria¹	2.10	-	-	4.00	-
Intersection	1.23	4.10	0.20	6.15	20.50
Crosswalk Criteria²	2.10	-	-	4.00	-
East Leg Crosswalk	2.01	3.30	1.30	1.55	2.54
North Leg Crosswalk	1.84	2.40	1.40	1.31	1.71
South Leg Crosswalk	3.65	4.60	2.80	1.30	1.64
West Leg Crosswalk	1.29	3.50	0.40	3.23	8.75

NOTES:

- Horizontal criteria for roadway/intersection lighting based on design requirements of Arlington County Lighting Specification Section 14140.2, Table 9, for two intersecting arterials with residential and commercial land use.
- Horizontal crosswalk lighting designed to provide uniform lighting throughout intersection. Horizontal criteria for crosswalk lighting based on design requirements of Arlington County Lighting Specification Section 14140.2 for arterial street lighting with commercial land use.
- Uniformities (Avg./Min. and Max./Min.) are "not-to-exceed" criteria.

- LEGEND**
- PROPOSED MAST ARM POLE WITH COBRA FIXTURE
 - EXISTING UTILITY POLE WITH EX. COBRA FIXTURE
 - LUMINAIRE IDENTIFICATION NUMBER



DEPARTMENT OF ENVIRONMENTAL SERVICES

Transportation Engineering and Operations Bureau
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 Arlington, VA 22201
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 Fax: 703.228.3719

Seal



APPROVALS	DATE
<i>Andrew S. Moy</i> TRAFFIC SIGNAL ENGINEER	08/19/2022
<i>John N. Nicks</i> TRAFFIC ENGINEERING MANAGER	08/24/2022
<i>John N. Nicks</i> WATER, SEWER, STREETS BUREAU CHIEF	9/1/22
<i>John N. Nicks</i> TE&O BUREAU CHIEF	08/26/2022
<i>Donnie M. Leach</i> TRANSPORTATION DIRECTOR	08/29/2022

Revisions Date

PHOTOMETRIC PLAN
 S. GLEBE ROAD
 INTERSECTION IMPROVEMENTS
 AT S. EADS STREET
 T088

DESIGNED: JMK
 DRAWN: JMK
 CHECKED: ASM
 MISS UTILITY TRANSMITTAL #: xxx
 FILENAME: T088-148-12-Photometric Plan.dwg
 PATH: Orders\T0_010_GlebeEads\cadd\Sheets

SCALE: 1"=25'

SHEET 12 of 13A

MOT GENERAL NOTES:

- IT IS NOT THE INTENT OF THE MAINTENANCE OF TRAFFIC PLAN TO ENUMERATE EVERY DETAIL WHICH MUST BE CONSIDERED IN CONSTRUCTION, BUT ONLY TO SHOW THE GENERAL HANDLING OF TRAFFIC. UNLESS OTHERWISE APPROVED OR DIRECTED BY THE COUNTY ENGINEER, THE CONTRACTOR SHALL PLAN AND EXECUTE THE WORK IN ACCORDANCE WITH THIS TEMPORARY TRAFFIC CONTROL PLAN.
- TRAFFIC CONTROL DEVICES AND SAFETY MEASURES SHALL COMPLY WITH THE VIRGINIA WORK AREA PROTECTION MANUAL, 2011, REVISION 2.1, NOVEMBER 1, 2020, VDOT'S GUIDELINES FOR TEMPORARY TRAFFIC CONTROL, FEDERAL HIGHWAY ADMINISTRATION MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, ARLINGTON COUNTY STANDARDS, THE TRAFFIC CONTROL PLANS INCLUDED IN THE CONSTRUCTION DRAWINGS, AND/OR AS DIRECTED BY THE PROJECT OFFICER.
- THE CONTRACTOR SHALL SUBMIT A DETAILED SCHEDULE WHICH INDICATES START AND FINISH DATES FOR EACH SEGMENT OF THE WORK. THE SCHEDULE SHALL INDICATE THE DURATION OF ALL LANE OR SHOULDER CLOSURES. THE CONTRACTOR SHALL NOTIFY THE PROJECT OFFICER A MINIMUM OF 3 BUSINESS DAYS IN ADVANCE OF PROCEEDING TO THE NEXT WORK SEGMENT.
- THE CONTRACTOR SHALL NOTIFY THE COUNTY PROJECT OFFICER OF PARKING RESTRICTION NEEDS A MINIMUM OF 3 BUSINESS DAYS PRIOR TO COMMENCEMENT OF WORK FOR EACH SEGMENT. COUNTY PROJECT OFFICER SHALL RESTRICT PARKING BY CONTACTING DES - PERMITTING SECTION, 703-228-4798.
- DURING CONSTRUCTION, THE CONTRACTOR SHALL EITHER MAINTAIN APPROPRIATE SIGHT DISTANCE TO ALL TRAFFIC SIGNS OR PROVIDE FOR TEMPORARY SIGNAGE OR FLAGGERS TO GUIDE TRAFFIC THROUGH WORK ZONES.
- THE CONTRACTOR SHALL MINIMIZE THE DURATION OF ANY BLOCKAGE TO PRIVATE ENTRANCES AND DRIVEWAYS. THE CONTRACTOR SHALL SUBMIT A SCHEDULE OF DRIVEWAY CLOSURE FOR APPROVAL BY THE PROJECT OFFICER. THE PROJECT OFFICER SHALL BE NOTIFIED A MINIMUM OF 3 BUSINESS DAYS IN ADVANCE OF SUCH ACTIVITIES. THE CONTRACTOR SHALL NOTIFY THE PROPERTY OWNER AT LEAST 24 HOURS IN ADVANCE OF THE START OF ANY WORK THAT WILL REQUIRE TEMPORARY CLOSURE OF ACCESS TO THE PROPERTY. THE CONTRACTOR SHALL MAKE ALL PRIVATE ENTRANCES AND DRIVEWAYS ACCESSIBLE AT THE CONCLUSION OF EACH WORKDAY.
- ANY EXCAVATIONS WHICH ARE SPECIFICALLY APPROVED BY THE PROJECT OFFICER TO REMAIN OPEN PAST NORMAL WORKING HOURS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE PROTECTED IN ACCORDANCE WITH THE VIRGINIA WORK AREA PROTECTION MANUAL AND AS APPROVED BY THE PROJECT OFFICER.
- PEDESTRIAN TRAFFIC SHALL BE MAINTAINED AT ALL TIMES, INCLUDING ACCESS TO BUS STOP SHELTERS, UNLESS OTHERWISE APPROVED IN THE PLANS.
- PEDESTRIAN TRAFFIC SHALL BE SEPARATED FROM WORK ZONES WITH APPROPRIATE MEASURES IN ACCORDANCE WITH MUTCD.
- ADEQUATE PROVISIONS FOR PERSONS WITH DISABILITIES SHALL BE PROVIDED AT ALL TIMES PER ADA REQUIREMENTS.
- WHEN NECESSARY, PEDESTRIANS SHALL BE APPROPRIATELY DIRECTED WITH ADVANCED WARNING SIGNS PLACED AT INTERSECTIONS, TO CROSS TO THE OPPOSITE SIDE OF THE ROADWAY IN ORDER TO PREVENT CONFLICT WITH MIDDLEBLOCK WORK SITES.
- PEDESTRIANS SHALL NOT BE LED INTO CONFLICT WITH WORK SITE EQUIPMENT, OPERATIONS, AND/OR VEHICLES MOVING THROUGH OR AROUND THE WORK SITE.
- ALL EXISTING FIRE HYDRANTS AND FIRE DEPARTMENT CONNECTIONS SHALL BE MAINTAINED UNOBSTRUCTED AND ACCESSIBLE AT ALL TIMES IN ACCORDANCE WITH SECTIONS 508.5.4 AND 508.5.5 OF THE ARLINGTON COUNTY FIRE PREVENTION CODE.
- ACCESS TO BUILDINGS FOR FIREFIGHTING SHALL BE MAINTAINED AT ALL TIMES. EXISTING FIRE APPARATUS ACCESS ROADS (FIRE LANES) SHALL BE KEPT CLEAR OF OBSTRUCTIONS IN ACCORDANCE WITH SECTION 503.4 OF THE ARLINGTON COUNTY FIRE PREVENTION CODE. ACCESS TO CONSTRUCTION SITES SHALL BE PROVIDED AND MAINTAINED IN ACCORDANCE WITH SECTION 1410 OF THE ARLINGTON COUNTY FIRE PREVENTION CODE.
- IN THE EVENT THAT EXISTING FIRE DEPARTMENT CONNECTIONS OR FIRE APPARATUS ACCESS ROADS (FIRE LANES) MUST BE OBSTRUCTED TO FACILITATE CONSTRUCTION ACTIVITIES, CONTACT THE ARLINGTON COUNTY FIRE DEPARTMENT FIRE PREVENTION OFFICE AT 703-228-4644 TO COORDINATE REVIEW AND APPROVAL OF TEMPORARY FIRE DEPARTMENT CONNECTIONS AND/OR FIRE APPARATUS ACCESS ROADS PRIOR TO CREATING THE OBSTRUCTION.
- THE CONTRACTOR SHALL COORDINATE WITH DES - TRANSIT BUREAU AT 703-228-3049 AT LEAST 4 WEEKS PRIOR TO COMMENCEMENT OF WORK WHEN TRANSIT IS AFFECTED OR IF THERE ARE ANY IMPACTS TO TRANSIT STOPS OR ROUTES. NOTE: ALL TEMPORARY AND FINAL BUS TRAVEL LANES MUST BE MINIMUM OF 11' WIDE IN EACH DIRECTION. COORDINATE ALL CONE TAPERS WITH BUS STOP MANAGER AT 703-228-3049.
- AT SIGNALIZED INTERSECTIONS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING VEHICLE DETECTION AT ALL TIMES DURING THE PROJECT. TRAFFIC SENSORS SHALL BE RESTORED TO THEIR PRE-CONSTRUCTION STATE PRIOR TO THE COMPLETION OF THIS PROJECT.
- WORK HOURS SHALL BE PER VDOT'S LANE CLOSURE GUIDELINES, DATED SEPTEMBER 21, 2016, UNLESS APPROVED BY COUNTRY PROJECT OFFICER AND VDOT.
- CONTRACTOR SHALL COVER ANY EXISTING SIGNS WHICH ARE NOT APPLICABLE OR ARE IN CONFLICT WITH THE MOT PLAN.
- CONTRACTOR SHALL ERADICATE AND RE-STRIPE AS NECESSARY ANY EXISTING PAVEMENT MARKINGS THAT ARE IN CONFLICT WITH OR DO NOT ALIGN WITH THE TEMPORARY PAVEMENT MARKINGS OR NEW TRAFFIC PATTERNS.
- CONTRACTOR SHALL ERADICATE ALL TEMPORARY PAVEMENT MARKING, INCLUDING TEMPORARY MARKED CROSSWALKS ONCE THE WORK AREA(S) ASSOCIATED WITH THE MARKINGS HAS BEEN COMPLETED.
- CONTRACTOR SHALL CONTACT ARLINGTON COUNTY DOT 3 BUSINESS DAYS PRIOR TO INSTALLATION OF PERMANENT PAVEMENT MARKINGS.
- CONTRACTOR SHALL NOT DISTURB OR REMOVE ANY TRAFFIC CONTROL SIGNS, PARKING METERS OR COVER ANY OTHER TRAFFIC CONTROL DEVICE UNLESS SPECIFIED ON THE PLANS OR APPROVED BY THE COUNTY PROJECT OFFICER IN WRITING.

Work Zone Table			
Zone	TTC #	Comments	Duration
Zone A	TTC 5.2	UTILIZE TTC-5.2 ALONG SB S. EADS ST.	Two Weeks
	TTC 16.2	UTILIZE TTC-16.2 ALONG EB S. GLEBE RD.	
	TTC 35.1	UTILIZE TTC-35.1 AT THE INTERSECTION OF S. GLEBE RD. AND S. EADS ST.	
	TTC 36.2	UTILIZE TTC-36.2 AT THE INTERSECTION OF S. GLEBE RD. AND S. EADS ST.	
Zone B	TTC 5.2	UTILIZE TTC-5.2 ALONG NB S. EADS ST.	Two Weeks
	TTC 16.2	UTILIZE TTC-16.2 ALONG EB S. GLEBE RD.	
	TTC 35.1	UTILIZE TTC-35.1 AT THE INTERSECTION OF S. GLEBE RD. AND S. EADS ST.	
	TTC 36.2	UTILIZE TTC-36.2 AT THE INTERSECTION OF S. GLEBE RD. AND S. EADS ST.	
Zone C	TTC 5.2	UTILIZE TTC-5.2 ALONG NB S. EADS ST.	Two Weeks
	TTC 16.2	UTILIZE TTC-16.2 ALONG WB S. GLEBE RD.	
	TTC 35.1	UTILIZE TTC-35.1 AT THE INTERSECTION OF S. GLEBE RD. AND S. EADS ST.	
	TTC 36.2	UTILIZE TTC-36.2 AT THE INTERSECTION OF S. GLEBE RD. AND S. EADS ST.	
Zone D	TTC 5.2	UTILIZE TTC-5.2 ALONG SB S. EADS ST.	Two Weeks
	TTC 16.2	UTILIZE TTC-16.2 ALONG WB S. GLEBE RD.	
	TTC 35.1	UTILIZE TTC-35.1 AT THE INTERSECTION OF S. GLEBE RD. AND S. EADS ST.	
	TTC 36.2	UTILIZE TTC-36.2 AT THE INTERSECTION OF S. GLEBE RD. AND S. EADS ST.	
Zone E	TTC 5.2	UTILIZE TTC-5.2 ALONG SB S. EADS ST.	One Week
	TTC 16.2	UTILIZE TTC-16.2 ALONG WB S. GLEBE RD.	
	TTC 35.1	UTILIZE TTC-35.1 AT THE INTERSECTION OF S. GLEBE RD. AND S. EADS ST.	
	TTC 36.2	UTILIZE TTC-36.2 AT THE INTERSECTION OF S. GLEBE RD. AND S. EADS ST.	
	TTC 53.0	UTILIZE TTC-53.0 AT THE INTERSECTION OF S. GLEBE RD. AND S. EADS ST.	

NOTES:

- SEE SHEETS 2D & 2E FOR TTC TYPICAL APPLICATIONS PER THE VIRGINIA WORK AREA PROTECTION MANUAL, 2011, REVISION 2.1, NOVEMBER 1, 2020.
- THE DURATIONS SHOWN WERE DEVELOPED FOR PLANNING AND ESTIMATION PURPOSES ONLY. THE DURATIONS IN NO WAY ALTER THE CONTRACT TIME FOR COMPLETION, OR INFRINGE ON THE CONTRACTORS MEANS AND METHODS. THE CONTRACTOR'S SUBMITTED SCHEDULE SUPERSEDES THE ESTIMATED DURATIONS SHOWN.
- TEMPORARY SIGNS AND BARRIERS SHOULD NOT OBSTRUCT PEDESTRIAN PASSAGE ON SIDEWALKS UNLESS SUCH SIGNS OR BARRIERS ARE SPECIFICALLY INTENDED TO CLOSE SUCH SIDEWALK
- CONTRACTOR SHALL CONSTRUCT ONLY ONE CORNER PER PHASE TO MINIMIZE PEDESTRIAN MOVEMENT DISRUPTION
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A TEMPORARY WALKING PATH OR COORDINATE CONSTRUCTION TO PROVIDE A PORTION OF SIDEWALK TO MAINTAIN PEDESTRIAN CONNECTIVITY

Commonwealth of Virginia

Virginia Department of Transportation

VERIFICATION OF COMPLETION OF VDOT ADVANCED WORK ZONE TRAFFIC CONTROL TRAINING AND FLAGGER CERTIFICATION

This is to verify that Andrew Moy has successfully completed training and an examination by the Department on the proper practices and methods for the installation, maintenance, removal of temporary traffic control devices and flagging operations.

Expiration Date: 2/28/2025

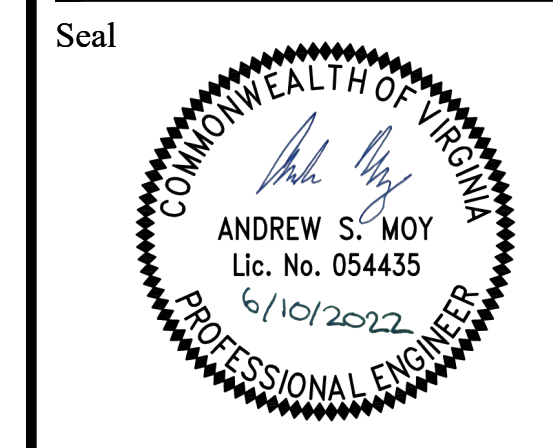
Verification Number: 021021142

R. J. Cherry
 State Traffic Engineer



DEPARTMENT OF ENVIRONMENTAL SERVICES

Transportation Engineering and Operations Bureau
 2100 Clarendon Boulevard, Suite 900
 Arlington, VA 22201
 Phone: 703.228.3344
 Fax: 703.228.3719



APPROVALS	DATE
	08/19/2022
TRAFFIC SIGNAL ENGINEER	
	08/24/2022
TRAFFIC ENGINEERING MANAGER	
	9/1/22
WATER SEWER, STREETS BUREAU CHIEF	
	08/26/2022
T&O BUREAU CHIEF	
	08/29/2022
TRANSPORTATION DIRECTOR	

Revisions	Date

MAINTENANCE OF TRAFFIC - NOTES
 S. GLEBE ROAD
 INTERSECTION IMPROVEMENTS
 AT S. EADS STREET

DESIGNED: KM
 DRAWN: KM
 CHECKED: MJA
 MISS UTILITY TRANSMITTAL #: xxx

FILENAME: T08S-148-13A-MOT.dwg
 Path: Orders\T0_010_GlebeEads\cadd\Sheets

PLOTTED: June 06, 2022
 PLOTTED BY: kmitta

SCALE: N.T.S.

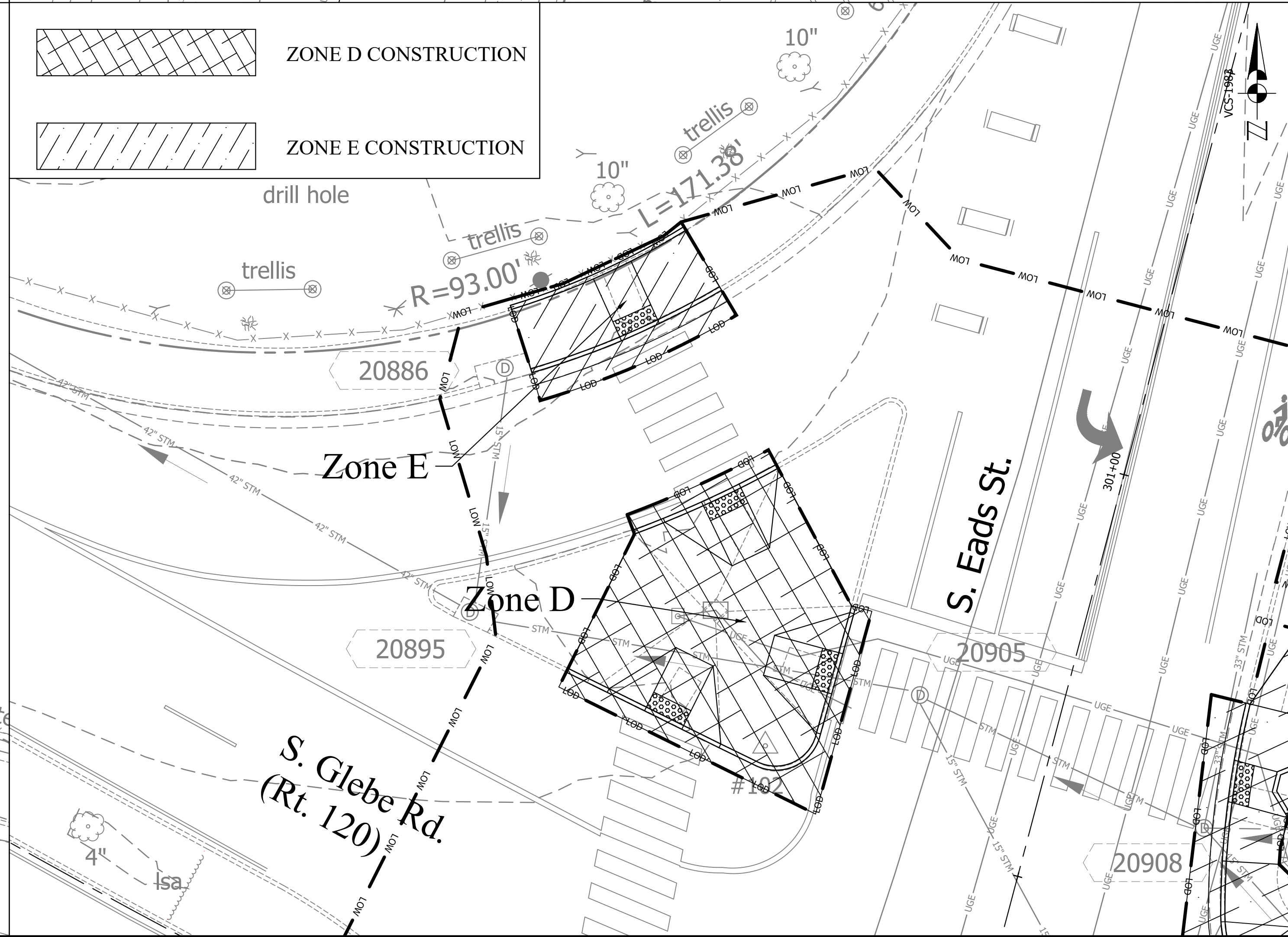
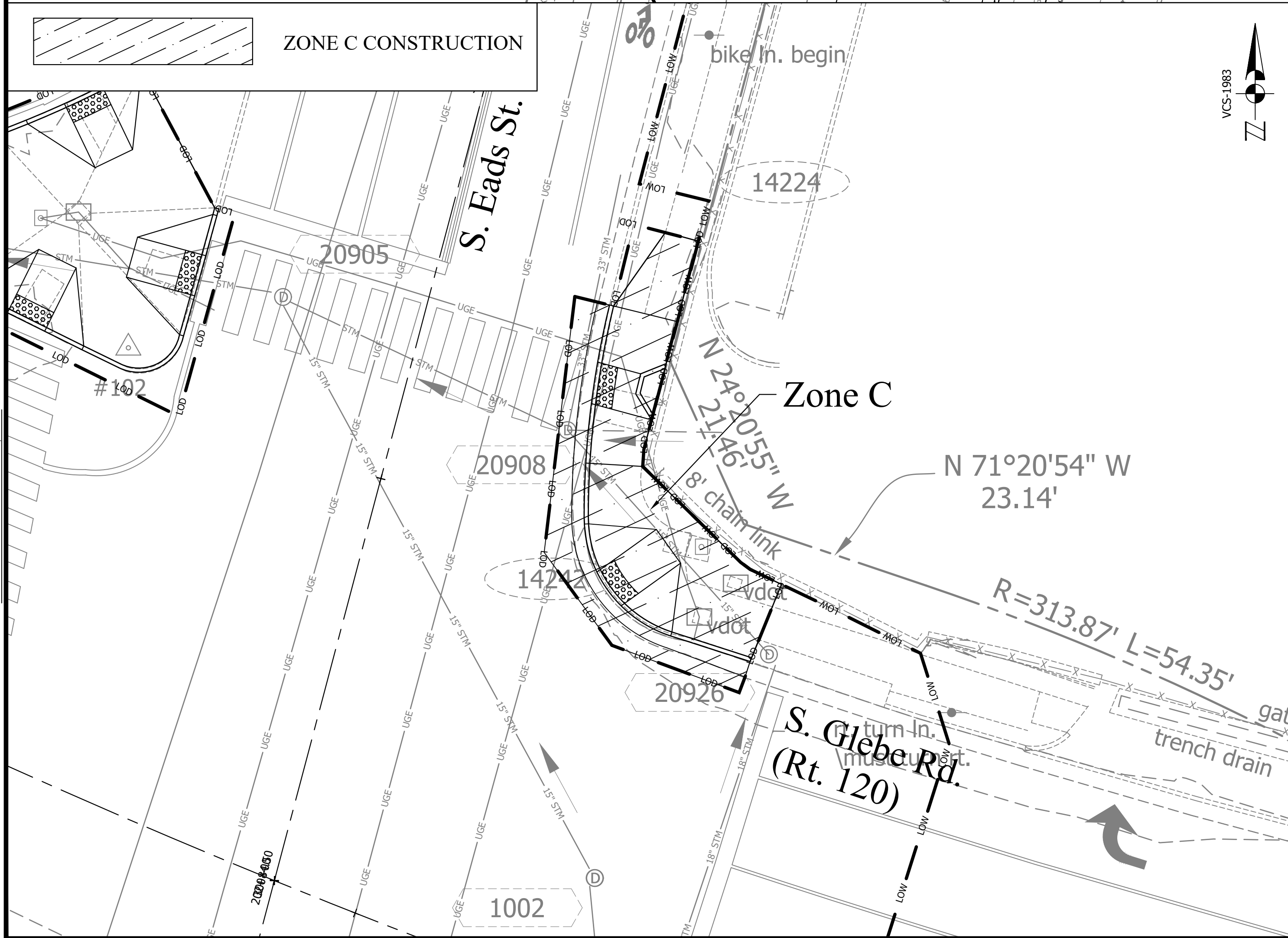
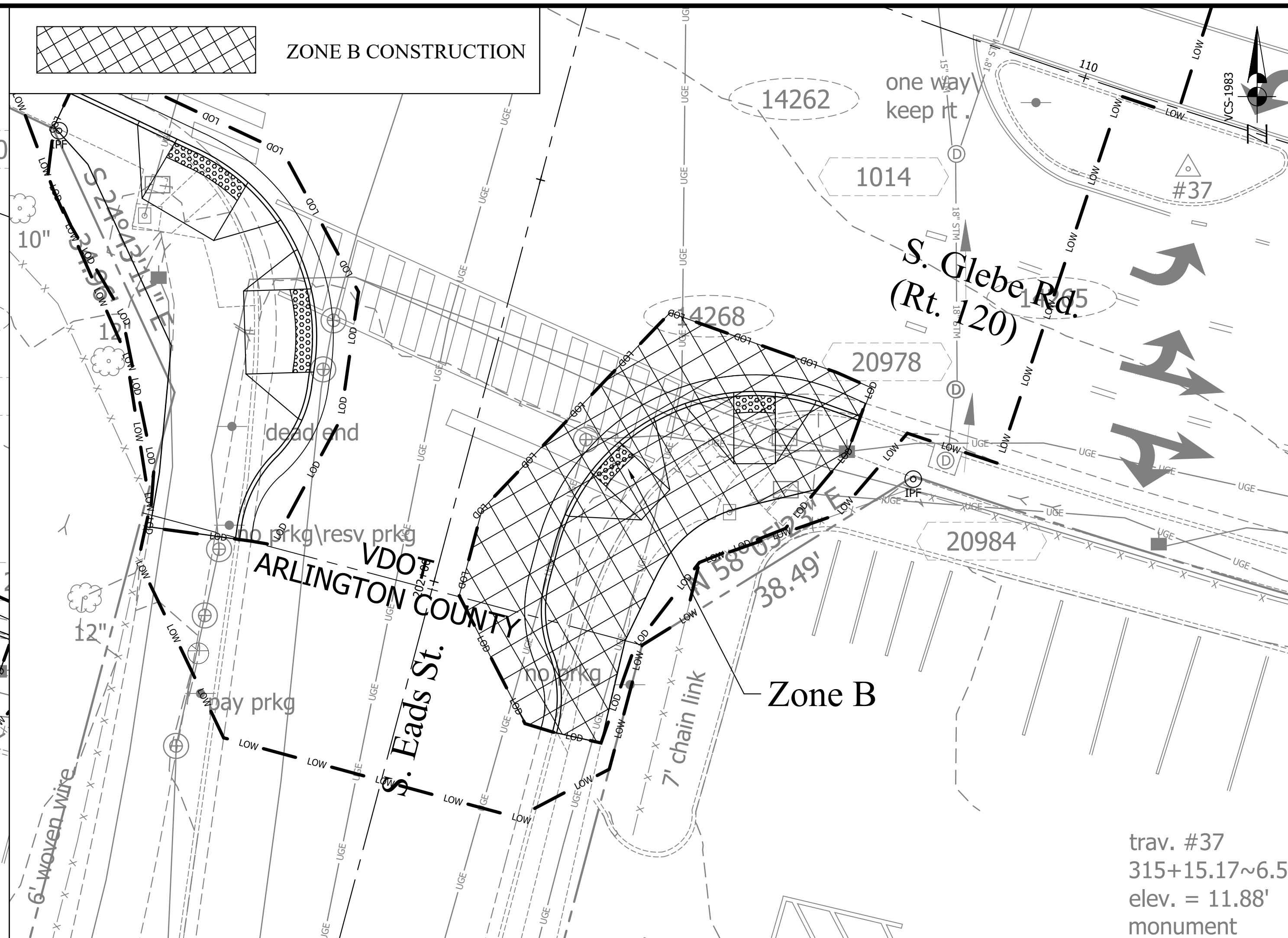
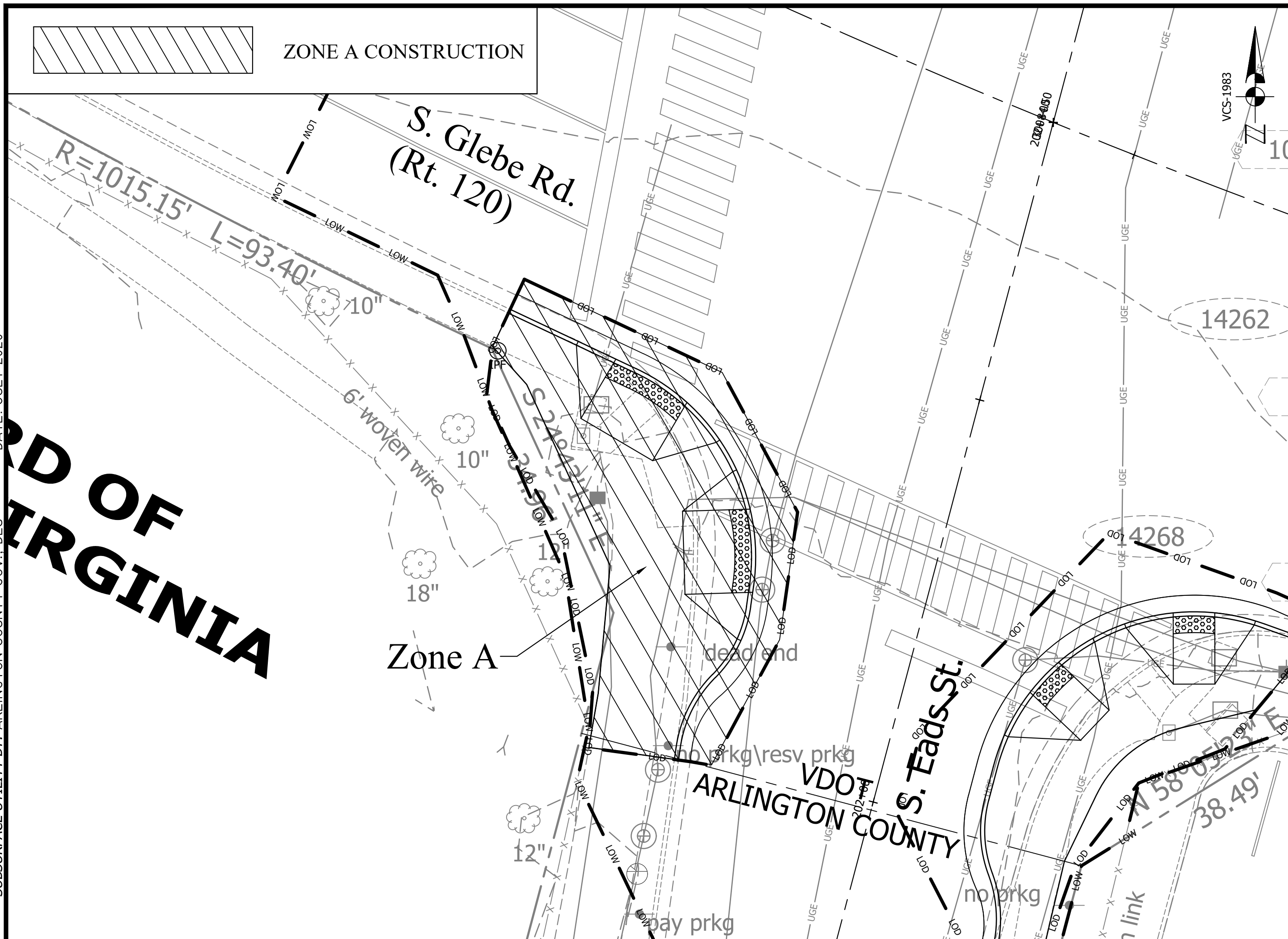
DESIGNED BY: RUMMEL, KLEPPER, & KAHL, LLP, ANDREW MOY, PE (703-246-0028) DATE: JULY 2020
 SURVEYED BY: ARLINGTON COUNTY GOV., DES

PROJECT MANAGER: ANDREW HAYES, PE, PTOE (571-243-1120) DATE: JULY 2020
 SURVEYED BY: ARLINGTON COUNTY GOV., DES

T08S

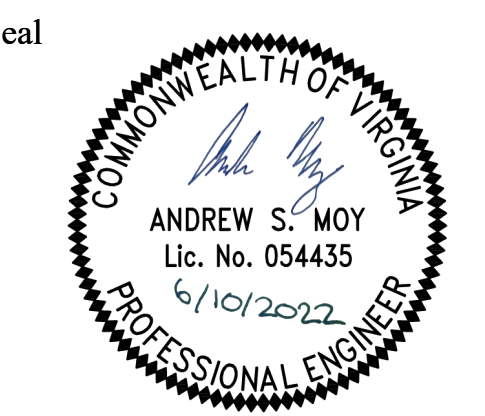
DESIGNED BY: RUMMEL, KLEPPER, & KAHL, LLP, ANDREW MOY, PE (703-246-0028)
 SURFACE UTILITY BY: ARLINGTON COUNTY GOV., DES DATE: JULY 2020

PROJECT MANAGER: ANDREW HAYES, PE, PTOE (571-243-1120)
 SURVEYED BY: ARLINGTON COUNTY GOV., DES DATE: JULY 2020



DEPARTMENT OF ENVIRONMENTAL SERVICES

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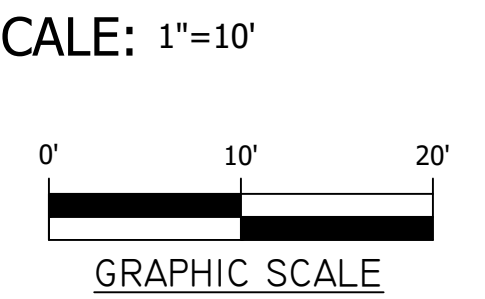


APPROVALS	DATE
<i>Andrew S. Moy</i> TRAFFIC SIGNAL ENGINEER	08/19/2022
<i>John N. Hahn</i> TRAFFIC ENGINEERING MANAGER	08/24/2022
<i>John N. Hahn</i> WATER, SEWER, STREETS BUREAU CHIEF	9/1/22
<i>John N. Hahn</i> T&O BUREAU CHIEF	08/26/2022
<i>Dennis M. Leach</i> TRANSPORTATION DIRECTOR	08/29/2022

Revisions	Date

MAINTENANCE OF TRAFFIC - WORK ZONES
S. GLEBE ROAD INTERSECTION IMPROVEMENTS AT S. EADS STREET

DESIGNED: MJA
 DRAWN: KM
 CHECKED: MJA
 MISS UTILITY TRANSMITTAL #: xxx
 FILENAME: T085-148-13A-MOT.dwg
 PATH: Orders\TO_010_GlebeEads\cadd\Sheets
 PLOTTED: June 07, 2022
 PLOTTED BY: jkiser



SHEET 13A of 13A