REVISED ON 05/23/2018

ARLINGTON
VIRGINIA

ENGINEER
DEPARTMENT OF
ENVIRONMENTAL SERVICES

FACILITIES & ENGINEERING DIVISION
ENGINEERING BUREAU
2100 CLARENDON BOULEVARD, SUITE 813
ARLINGTON, VA 22201
PHONE: 703.228.3629 FAX: 703.228.3606
WWW.ARLINGTONVA.US

OWNER
DES/DTD/PLAN

CONTRACTOR
TO BE DETERMINED

LOCATION MAP

CONSTRUCTION DRAWINGS FOR:

S ARLINGTON RIDGE RD AND S LANG ST INT. IMPROVEMENTS
Intersection of S Arlington Ridge Rd and S Lang St

PROJECT NUMBER: DC13

GENERAL NOTES:

GENERAL CONSTRUCTION NOTES

1. ALL CONSTRUCTION WORK FOR THIS PROJECT SHALL CONFORM TO THE ARLINGTON COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES, CONSTRUCTION STANDARDS AND SPECIFICATIONS, AND WHERE APPLICABLE THE VIRGINIA DEPARTMENT OF TRANSPORTATION (VDOT) ROAD AND BRIDGE SPECIFICATIONS, AND ROAD AND BRIDGE STANDARDS. THE LATEST EDITIONS OF EACH RELEVANT MANUAL SHALL BE USED.
2. ALL CONSTRUCTION AND WORK ACTIVITIES SHALL COMPLY WITH THE VIRGINIA WORK AREA PROTECTION MANUAL AND ALL OTHER RELEVANT WORK SAFETY REQUIREMENTS, LATEST EDITIONS.
3. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE PROJECT OFFICER OF ANY DISCREPANCIES BETWEEN ACTUAL FIELD CONDITIONS AND THE APPROVED PLANS.
4. 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, SEWER AND GAS LATERALS WILL NOT BE MARKED BY MISS UTILITY OR THE COUNTY. THE CONTRACTOR SHALL LOCATE AND PROTECT THESE SERVICES DURING CONSTRUCTION.
5. 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 ELEVATION 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, UNLESS OTHERWISE SPECIFIED, THE COST SHALL BE INCORPORATED INTO THE COSTS FOR RELEVANT ITEMS.
6. THE LOCATION OF ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE FROM BEST AVAILABLE RECORDS AND SHALL BE CONSIDERED TO BE APPROXIMATE. WHEN CONSTRUCTION ACTIVITY REACHES IN PROXIMITY TO EXISTING UTILITIES, THE TRENCH(ES) SHALL BE OPENED A SUFFICIENT DISTANCE AHEAD OF THE WORK OR TEST PITS SHALL BE MADE TO VERIFY THE EXACT LOCATION AND INVERTS OF THE UTILITY TO ALLOW FOR POSSIBLE CHANGES IN THE LINE OR GRADE AS DIRECTED BY OFFICER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE EXISTING UTILITIES AND THE RELATED STRUCTURES. ALL EXISTING UTILITY SYSTEMS SHALL BE PROTECTED TO PREVENT DAMAGE DURING THE CONTRACTOR'S OPERATIONS. ANY SYSTEM DAMAGED SHALL BE PROMPTLY REPAIRED AT NO COST TO THE OWNER.
7. 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.
8. 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.
9. ALL SIDEWALK AND CURB AND GUTTER DEMOLITION SHALL BEGIN AND END AT THE CONSTRUCTION JOINT NEAREST TO THE DEPICTED DEMOLITION EXTENTS WITH A NEAT SAWCUT LINE TO FULL DEPTH OF PAVEMENT SECTION.

STORMWATER AND ENVIRONMENTAL PROTECTION

10. 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 DISTURBANCE (LOD).

TREE PROTECTION

11. TREES SHALL BE PROTECTED PER THE REQUIREMENTS OF ARLINGTON PARKS & RECREATION STANDARD.

TRAFFIC CONTROL

12. CONTRACTOR SHALL NOTIFY THE PROJECT OFFICER AT LEAST 3 WORKING DAYS PRIOR TO DISTURBING ANY EXISTING, OR INSTALLING ANY NEW, TRAFFIC SIGNS, SIGNALS, OR OTHER TRAFFIC CONTROL DEVICES.
13. THE CONTRACTOR SHALL PREMARK THE LAYOUT OF ANY PERMANENT TRAFFIC CONTROL STRIPING, INDICATING THE PROPOSED LOCATION AND TYPE OF MARKING TO BE INSTALLED. THE PREMARKING MAY CONSIST OF TYPE D TAPE, CHALK, OR LUMBER CRAYONS. THE CONTRACTOR SHALL ALLOW 3 WORKING DAYS FOR THE INSPECTION AND APPROVAL OF THE PREMARKINGS PRIOR TO PLACING THE PERMANENT MARKINGS.
14. THE CONTRACTOR SHALL SUBMIT ANY REQUESTS FOR TEMPORARY "NO PARKING" RESTRICTIONS TO THE PROJECT OFFICER AT LEAST 3 WORKING DAYS PRIOR TO THE DESIRED ONSET OF RESTRICTIONS.
15. THE CONTRACTOR SHALL PRESERVE ALL BUS STOPS, INCLUDING MAINTAINING ADEQUATE ACCESSIBILITY THROUGH AND ADJACENT TO THE CONSTRUCTION FOR BUSES AND THEIR PASSENGERS. THE CONTRACTOR SHALL NOT CLOSE, RELOCATE, OR OTHERWISE MODIFY A BUS STOP WITHOUT PRIOR REQUEST OF THE PROJECT OFFICER. TYPICALLY ANY RELOCATION OR CLOSURE OF A BUS STOP WILL REQUIRE AT LEAST FOUR WEEKS ADVANCE NOTICE FOR COORDINATION WITH THE COUNTY'S BUS STOP COORDINATOR - 703-228-3049. ALL TEMPORARY AND FINAL BUS TRAVEL LANES MUST BE MINIMUM 11' WIDE.
16. 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

17. 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 1 WEEK IN ADVANCE OF THE REQUIRED OPERATION.
18. IN THE EVENT OF A WATER OR SEWER EMERGENCY, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE COUNTY'S WATER CONTROL CENTER AT 703-228-6555 AND THE PROJECT OFFICER.
19. THE CONTRACTOR SHALL COORDINATE ALL UTILITY SHUTOFFS, DISCONNECTS, AND/OR ABANDONMENT WITH UTILITY OWNER AND PROJECT OFFICER AT LEAST 1 WEEK IN ADVANCE OF THE REQUIRED INTERRUPTION.

FIRE DEPARTMENT NOTES:

20. 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.
21. 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.
22. 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.

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2	LEGEND SHEET
3	TYPICAL SECTIONS
4	EXISTING CONDITIONS
5	DEMOLITION PLAN
6	EROSION AND SEDIMENT CONTROL PLAN
7	EROSION AND SEDIMENT CONTROL NOTES
8	EROSION AND SEDIMENT CONTROL DETAILS 1
9	EROSION AND SEDIMENT CONTROL DETAILS 2
10	STORMWATER POLLUTION PREVENTION PLAN
11	GEOMETRIC CONTROL PLAN
12	PLAN & PROFILE
13	CURB RETURN PROFILES
14	RAMP DETAILS
15	SIDEWALK, BUS STOP PAD DETAILS
16	CROSS SECTIONS - CR1
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19	VRRM SPREADSHEET
20	LANDSCAPE PLAN
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23	MOT PHASE 1
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27	MOT NOTES

SWM 19-0116

ADT

S ARLINGTON RIDGE RD
AADT: 13,000 VPD (VDOT 2017)
ADT: 12,250 VPD (ARLINGTON 2018)
S LANG ST
ADT: 3,300 VPD (ARLINGTON 2018)

STREET CLASSIFICATION

MINOR ARTERIAL - S ARLINGTON RIDGE RD
NEIGHBORHOOD MINOR - S LANG ST

POSTED SPEED

25 MPH - S ARLINGTON RIDGE RD
25 MPH - S LANG ST

DESIGN VEHICLE

AASHTO 2011 (US) CITY-BUS

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SEAL

COMMONWEALTH OF VIRGINIA
PETER J. RIGBY III
Lic. No. 010746
11/5/19
PROFESSIONAL ENGINEER

APPROVALS	DATE
	11.18.2019
QUALITY CONTROL ENGINEER	11/18/19
CONSTRUCTION MANAGEMENT SUPERVISOR	11/19/19
WATER, SEWER, STREETS BUREAU CHIEF	11/19/19
TRANSPORTATION DIRECTOR	Nov 19/2019
PROJECT MANAGER	

REVISIONS	DATE

S ARLINGTON RIDGE RD AT S LANG ST
DC13
INTERSECTION IMPROVEMENTS

COVER SHEET

DESIGNED: L. DELACRUZ
DRAWN: L. DELACRUZ
CHECKED: P. RIGBY
MISS UTILITY TRANSMITTAL #: N/A

PLOTTED: NOVEMBER 20 2019

SCALE: NTS

FILENAME: DC13-200-COVER-90PCT.DWG PATH: Q:\DATA\DC13\DESIGN\CAD\ACTIVE PLOTTED BY: LDELACRUZ

REVISED ON 05/23/2018

LINETYPE LEGEND

FEATURE	EXISTING	PROPOSED
BUILDING		
CENTERLINE / BASELINE		
COMMUNICATIONS CABLE	COM COM	COM COM
CONTOURS MAJOR;MINOR?	250 250	250 250
CRITICAL ROOT ZONE	CRZ CRZ	CRZ CRZ
EASEMENT		
ELECTRIC (UNDERGROUND)	UGE UGE	
FENCE (MATERIAL NOTED)	x x x x x	x x x x x
FIBER OPTIC	FO FO	fo
GAS LINE	GAS GAS	GAS GAS
X" GAS LINE (SIZE INCLUDED IF AVAILABLE)	X" G X" G	X" G X" G
GUARDRAIL		
HARDSCAPE FEATURE (MATERIAL NOTED)		
LIMITS OF DISTURBANCE	LOD LOD	LOD LOD
LIMITS OF WORK	LOW LOW	LOW LOW
OVERHEAD WIRES		
PAVEMENT MINI SKIP LINE		
PAVEMENT SKIP LINE		
PROPERTY LINE		
RIGHT-OF-WAY LINE		
ROOT PRUNING	RP RP	RP RP
SANITARY SEWER		SAN SAN
X" SANITARY SEWER (SIZE INCLUDED IF AVAILABLE)	X" S X" S	
SILT FENCE	SF SF	SF SF
STORM (SIZE NOTED)	STM STM	
STREAM		
STREET LIGHT CONDUIT	SL SL	SL SL
TELEPHONE (UNDERGROUND)	UGT	UGT
TREE LINE		
TREE PROTECTION FENCE	TP TP	TP TP
WALL		
WATER		
X" WATER (SIZE INCLUDED IF AVAILABLE)	X" W X" W	X" W X" W

SYMBOL LEGEND

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

LABEL LEGEND

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

HATCH LEGEND

PROP MILL & OVERLAY SEE TYPICAL SECTION FOR DETAILS	
PROP FULL DEPTH ASPHALT SEE TYPICAL SECTION FOR DETAILS	
PROP CONCRETE	
REPLACE & MATCH EXISTING DRIVEWAY OR LEADWALK. SEE CONSTRUCTION NOTES	
DEMOLITION AREA	
GRASS AREA	

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WATER, SEWER, STREETS BUREAU CHIEF	11/19/19
TRANSPORTATION DIRECTOR	11/19/19
PROJECT MANAGER	Nov 19 2019

REVISIONS	DATE

S ARLINGTON RIDGE RD AT S LANG ST
DC13
INTERSECTION IMPROVEMENTS

LEGEND SHEET

DESIGNED: L. DELACRUZ
DRAWN: L. DELACRUZ
CHECKED: P. RIGBY
MISS UTILITY TRANSMITTAL #: N/A

PLOTTED: NOVEMBER 20 2019

SCALE: AS NOTED

FILENAME: DC13-202-LEGEND_90PCT.DWG PATH: Q:\DATA\DC13\DESIGN\CAD\ACTIVE PLOTTED BY: LDELACRUZ

REVISED ON 05/23/2018

S LANG ST
BASELINE: CONSTRUCTION SLANG ST CENTERLINE
STA 0+24.04 TO STA 0+75.71

S ARLINGTON RIDGE RD
BASELINE: CONSTRUCTION S ARLINGTON RIDGE RD CENTERLINE
STA 2+63.94 TO STA 3+20.93

S ARLINGTON RIDGE RD
BASELINE: CONSTRUCTION S ARLINGTON RIDGE RD CENTERLINE
STA 3+20.93 TO STA 4+10.78

S ARLINGTON RIDGE RD
BASELINE: CONSTRUCTION S ARLINGTON RIDGE RD CENTERLINE
STA. 1+73.24 TO STA. 1+88.23

S ARLINGTON RIDGE RD
BASELINE: CONSTRUCTION S ARLINGTON RIDGE RD CENTERLINE
STA. 0+30.72 TO STA. 1+71.02

LEGEND

- (A) PROP. 4" CONC. SDWK. CLASS A3 PER ARL. CO. STD. R-2.0
- (B) PROP. CURB AND GUTTER PER ARL. CO. STD. R-2.0 (C-2)
- (C) PROP. 4" TOPSOIL AND SOD PER ARL. CO. SPECS 329100 & 329200 AND SELECTED & APPROVED SOIL FOR BACKFILL IF NEEDED
- (D) PROP. 2" ASPHALT CONCRETE SURFACE COURSE TYPE SM-9.5D PER VDOT SPEC. 211
- (E) PROP. 6" ASPHALT CONCRETE BASE COURSE TYPE BM-25.0A PER VDOT SPEC. 211
- (F) PROP. 6" AGGREGATE BASE MATERIAL, MIN. CBR-30, TYPE 1, SIZE 21-A PER ARL. CO. STD. R-1.4
- (G) PROP. 3" AGGREGATE BASE MATERIAL, MIN. CBR-30, TYPE 1, SIZE 21-A PER ARL. CO. STD R-2.0
- (H) PROP. RAISED MEDIAN STRIP MS-1A W/CG-3 MOUNTABLE CURB PER 2016 VDOT ROAD & BRIDGE STD. DWG. 202.03
- (I) PROP. SAW CUT
- (J) SELECTED AND APPROVED SOIL FOR FILL PLACEMENT IF NEEDED

TYPICAL UTILITY STRIP CROSS SECTION
(N.T.S)

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11/5/19
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APPROVALS	DATE
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CONSTRUCTION MANAGEMENT SUPERVISOR	11/19/19
WATER, SEWER, STREETS BUREAU CHIEF	11/19/19
TRANSPORTATION DIRECTOR	Nov 19 2019
PROJECT MANAGER	

REVISIONS	DATE

S ARLINGTON RIDGE RD AT S LANG ST
DC13
INTERSECTION IMPROVEMENTS

TYPICAL SECTIONS

DESIGNED: L. DELACRUZ
DRAWN: L. DELACRUZ
CHECKED: P. RIGBY
MISS UTILITY TRANSMITTAL #: N/A

PLOTTED: NOVEMBER 20 2019

SCALE: NTS

FILENAME: DC13-210-TYPICAL_SECTIONS.DWG PATH: Q:\DATA\DC13\DESIGN\CAD\ACTIVE PLOTTED BY: LDELACRUZ

REVISED ON 05/23/2018

GENERAL SURVEY NOTES:

1. THIS TOPOGRAPHIC SURVEY WAS COMPLETED UNDER THE DIRECT AND RESPONSIBLE CHARGE OF THE COUNTY SURVEY SECTION FROM AN ACTUAL GROUND SURVEY; THE IMAGE AND/OR ORIGINAL DATA WAS OBTAINED FROM 04/2013 TO 04/2018; AND THIS PLAT, MAP OR DIGITAL GEOSPATIAL DATA INCLUDING METADATA MEETS MINIMUM ACCURACY STANDARDS UNLESS OTHERWISE NOTED.
2. HORIZONTAL DATUM: VIRGINIA COORDINATE SYSTEM 1983.
3. VERTICAL DATUM: NORTH AMERICA VERTICAL DATUM 1988.
4. CONTOUR INTERVAL: 1'
5. BOUNDARY INFORMATION SHOWN HEREON WAS COMPILED FROM EXISTING LAND RECORDS AND DOES NOT REPRESENT A FIELD RUN BOUNDARY SURVEY.

SANITARY SEWER TABULATION

#608
TOP = 28.75
C/L INV. = 18.72

#1835
TOP = 64.99
C/L INV. = 56.95

#1836
TOP =72.90
C/L INV. = 60.74

#1837
TOP = 78.56
C/L INV. = 70.64

#1838
TOP = 84.47
C/L INV. = 78.25

#2248
TOP = 88.17
C/L INV. = 81.83

#2742
TOP = 42.726
C/L INV. = 37.536

STORM SEWER TABULATION

#19371
TOP = 89.83
15" RCP INV. OUT = 86.33 (TO 19381)

#19377
TOP = 89.76
15" RCP INV. OUT = 85.86 (TO 19381)

#19381
TOP = 88.96
15" RCP INV. IN = 83.71 (FROM 19371)
15" RCP INV. IN = 83.95 (FROM 19377)
15" RCP INV. OUT = 82.82 (TO 19398)

#19394
TOP = 89.03
18" CMP INV. IN = 85.83 (FROM 19412)
18" CMP INV. OUT = 82.95 (TO 19402)

#19398
TOP = 87.65
15" RCP INV. IN = 81.25 (FROM 19381)
18" RCP INV. IN = 81.25 (FROM 19402)
18" RCP INV. OUT = 80.75 (TO 19399)

#19402
TOP = 87.71
18" CMP INV. IN = 83.21 (FROM 19394)
15" RCP INV. IN = 82.91 (FROM EAST)
18" RCP INV. OUT = 82.56 (TO 19398)

#19686
TOP = 68.88
15" RCP INV. OUT = 65.04 (TO 19699)

#19699
TOP = 68.58
15" RCP INV. IN = 62.98 (FROM 8603)
15" RCP INV. IN = 63.12 (FROM 19686)
15" RCP INV. OUT = 62.84 (TO 19786)

#19786
TOP = 61.62
15" RCP INV. IN = 56.57 (FROM 19699)
15 " RCP INV. OUT = 56.47 (TO 19847)

#19822
TOP = 58.41
15 " CMP INV. IN = 56.13 (FROM 19804)
15 " RCP INV. OUT = 55.71 (TO 19842)

#19842
TOP = 54.27
18" RCP INV. IN = (FROM 19842)
18" RCP INV. OUT = 49.07 (TO 19925)

#19858
TOP = 49.61
15 " RCP INV. OUT = 45.13 (TO 19895)

# 19925
TOP = 47.82
21" RCP INV. IN = 43.78 (FROM 19847)

# 19987
TOP = 35.31
15" RCP INV. IN =26.09 (FROM 19895)
15" RCP INV. OUT = 26.04 (TO 20022)

# 19895
TOP = 45.33
15" RCP INV. IN = 41.22 (FROM 19858)
15" RCP INV. OUT = 41.078 (TO 19987)

#29057
TOP = 79.79
15" RCP INV. IN = 74.45 (FROM 29058)
15" RCP INV. OUT = 74.39 (TO 19699)

#29058
TOP = 79.74
15" RCP INV. OUT = 75.74 (TO 29057)

S Arlington Ridge Rd & S Lang St
TREE INVENTORY AND REPLACEMENT SCHEDULE

Tree #	To Be Removed	DBH	Condition	Species	Common name	Species Rating	Replacement Value	Replacements
1		9	85	*Picea abies*	Norway spruce	40	3.06	1
2		10	70	*Gleditsia triacanthos*	Honeylocust	55	3.85	1
3		3	80	*Cercis canadensis*	Redbud	75	1.80	1
4		3	80	*Cercis canadensis*	Redbud	75	1.80	1
5		14.4	70	*Gleditsia triacanthos*	Honeylocust	55	5.54	2
							Total:	6

ADDITIONAL NOTE:

GPS SATELLITE DATA WAS COLLECTED FOR POINTS 100-102,105,106 ON APRIL 8, 2013. SCALE FACTOR OF 1.00006 WAS APPLIED TO THESE POINTS TO ACHIEVE GROUND COORDINATE VALUES. THE SCALE POINT @ N7009718, E11878491 WAS USED AS SCALE BASE POINT.

TRAVERSE 100 THROUGH 107 FIELD RUN ON MAY 1, 2013 AT ASSUMED COORDINATES. MID-POINT OF LINE 100-101 WAS HELD FOR POSITION AND THE LINE 100-101 WAS HELD FOR THE BASIS OF BEARING.

THE RTK GPS ELEVATION FOR POINT 100 (30.518) WAS HELD FOR THE VERTICAL DATUM.

SURVEY CONTROL

POINT#	NORTHING	EASTING	ELEV.	DESCRIPTION
100	6994570.75803	11891471.07714	30.518	TRV
101	6994459.09660	11891274.41760	17.295	TRV
102	6994413.01211	11890998.18583	18.453	TRV
103	6994736.82276	11890993.05488	30.639	TRV
104	6994955.43476	11890888.42446	46.865	TRV
105	6995247.35979	11890867.71226	69.063	TRV
106	6994944.59132	11891072.39890	52.744	TRV
107	6994810.93456	11891306.36578	42.304	TRV

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SEAL

COMMONWEALTH OF VIRGINIA
PETER J. RIGBY
Lic. No. 01274
11/5/19
PROFESSIONAL ENGINEER

APPROVALS	DATE
QUALITY CONTROL ENGINEER	11.18.2019
CONSTRUCTION MANAGEMENT SUPERVISOR	11/18/19
WATER, SEWER, STREETS BUREAU CHIEF	11/19/19
TRANSPORTATION DIRECTOR	11/19/19
PROJECT MANAGER	Nov 19 2019

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S ARLINGTON RIDGE RD AT S LANG ST
DC13
INTERSECTION IMPROVEMENTS

EXISTING CONDITIONS

DESIGNED: L. DELACRUZ
DRAWN: L. DELACRUZ
CHECKED: P. RIGBY
MISS UTILITY TRANSMITTAL #: N/A

PLOTTED: NOVEMBER 20 2019

SCALE:

25 0 25
HORIZ: SCALE: 1" = 25'

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REVISED ON 05/23/2018

ARLINGTON
VIRGINIA

DEPARTMENT OF
ENVIRONMENTAL SERVICES
FACILITIES & ENGINEERING DIVISION
ENGINEERING BUREAU
2100 CLARENDON BOULEVARD, SUITE 813
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SEAL

COMMONWEALTH OF VIRGINIA
PETER J. RIGBY, JR.
Lic. No. 01[illegible]
11/5/19
PROFESSIONAL ENGINEER

APPROVALS	DATE
QUALITY CONTROL ENGINEER	11.18.2019
CONSTRUCTION MANAGEMENT SUPERVISOR	11/19/19
WATER, SEWER, STREETS BUREAU CHIEF	11/19/19
TRANSPORTATION DIRECTOR	11/19/19
PROJECT MANAGER	Nov 19 2019

REVISIONS	DATE

S ARLINGTON RIDGE RD AT S LANG ST
DC13
INTERSECTION IMPROVEMENTS

DEMOLITION PLAN

DESIGNED: L. DELACRUZ
DRAWN: L. DELACRUZ
CHECKED: P. RIGBY
MISS UTILITY TRANSMITTAL #: N/A

PLOTTED: NOVEMBER 20 2019

SCALE:

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HORIZ: SCALE: 1" = 25'

SHEET 5 OF 27

FILENAME: DC13-228-DEMOLITION.DWG PATH: Q:\DATA\DC13\DESIGN\CAD\ACTIVE PLOTTED BY: LDELACRUZ

REVISED ON 05/23/2018

EROSION AND SEDIMENT CONTROL LEGEND

3.05	TEMPORARY SILT FENCE	SF	—— SF ——
3.07	STORM DRAIN INLET PROTECTION	IP	
3.38	TREE PROTECTION	TP	—— TP ——
	LIMITS OF DISTURBANCE		—— LOD ——
	CRITICAL ROOT ZONE		—— CRZ ——
	ROOT PRUNING	RP	—— RP ——

NOTES

1. CALL THE URBAN FORESTER AT 703-228-1863, 72 HOURS BEFORE THE START OF ANY LAND DISTURBANCE, TO DISCUSS AND SCHEDULE INSPECTION OF TREE PROTECTION.

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S ARLINGTON RIDGE RD AT S LANG ST
DC13
INTERSECTION IMPROVEMENTS

EROSION AND SEDIMENT CONTROL PLAN

DESIGNED: L. DELACRUZ
DRAWN: L. DELACRUZ
CHECKED: P. RIGBY
MISS UTILITY TRANSMITTAL #: N/A

PLOTTED: NOVEMBER 20 2019

SCALE:

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HORIZ: SCALE: 1" = 25'

SHEET 6 OF 27

FILENAME: DC13-224-E_AND_S_PLAN.DWG PATH: Q:\DATA\DC13\DESIGN\CAD\ACTIVE PLOTTED BY: LDELACRUZ

REVISED ON 05/23/2018

EROSION AND SEDIMENT CONTROL NARRATIVE

PROJECT DESCRIPTION:

THIS PROJECT CONSISTS OF IMPROVING PEDESTRIAN SAFETY AT THE INTERSECTION OF ARLINGTON RIDGE ROAD AND S LANG STREET BY REALIGNING THE INTERSECTION AND ELIMINATING THE SLIP LANE. THE PROJECT WORK INCLUDES REMOVING AND INSTALLING CURB & GUTTER, ADDING A NEW RAISED MEDIAN, ADA CURB RAMPS, SIDEWALK RECONFIGURATIONS AND NARROWING OF ARLINGTON RIDGE ROAD. THE TOTAL PROJECT AREA IS 13,835 SF (0.3176 AC), WITH 11,878 SF (0.2727 AC) SUBJECT TO LAND DISTURBING ACTIVITY. THE LIMIT OF CONSTRUCTION IS WITHIN THE EXISTING COUNTRY ROW EXCEPT IN SOME LOCATIONS WHEREIN THE COUNTY HAS OBTAINED THE NECESSARY EASEMENTS FROM THE PROPERTY OWNERS.

EXISTING SITE CONDITIONS:

THE SITE IS LOCATED WITHIN THE FOUR MILE RUN LOWER MAINSTEM WATERSHED. ROADWAY GRADES GENERALLY FALL BETWEEN 5 AND 12 PERCENT. THERE ARE EXISTING DRAINAGE STRUCTURES SERVING THIS SITE IN THE FORM OF CURB INLET. THE CURRENT LAND COVERS IS PRIMARILY IMPERVIOUS. THE SITE SOILS DENOTED AS MAP UNIT SYMBOL "11D" ARE CLASSIFIED AS "URBAN LAND-SASSAFRAS COMPLEX" AND HYDROLOGICAL SOIL GROUP IS "B" PER THE USDA NRCS SOIL SURVEY MAP.

ADJACENT PROPERTIES:

ADJACENT AREA CONTAINS AN ARLINGTON PUBLIC SCHOOL (GUSTON MIDDLE SCHOOL) AND SINGLE FAMILY DETACHED HOUSES LOCATED ALONG THE ROADWAY.

OFF-SITE AREAS:

THE EXTENT OF OFFSITE CONSTRUCTION IS LIMITED TO CONNECTING TO THE EXISTING PUBLIC AND PRIVATE STREETS, DRIVEWAYS, AND SIDEWALKS ADJACENT TO THE IMPROVEMENTS.

CRITICAL AREAS:

NO EXISTING EROSION PROBLEMS HAVE BEEN IDENTIFIED. DISTURBED AREAS SHALL BE MONITORED ROUTINELY FOR SIGNS OF EROSION, AND TEMPORARY STABILIZATION SHALL BE PUT IN PLACE AS NEEDED. PERIMETER CONTROLS PARTICULARLY INLET PROTECTION, SHALL BE MONITORED FREQUENTLY AND CLEARED AS NEEDED.

EROSION AND SEDIMENT CONTROL MEASURES:

UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE CONSTRUCTED AND MAINTAINED ACCORDING TO THE MINIMUM STANDARDS AND SPECIFICATIONS OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK (VESCH) , 1992 AND THE ARLINGTON COUNTY EROSION AND SEDIMENT CONTROL ORDINANCE. THE MINIMUM STANDARDS OF THE VIRGINIA EROSION AND SEDIMENT CONTROL REGULATIONS (VESCR) SHALL BE ADHERED TO UNLESS WAIVED OR APPROVED BY VARIANCE.
PRACTICES SHALL INCLUDE PERIMETER CONTROL SUCH AS SILT FENCE AND INLET PROTECTION. INLET PROTECTION IS REQUIRED OUTSIDE THE PROJECT LIMITS WHEN/WHERE WATER FROM DISTURBED AREA FLOWS.

PERMANENT STABILIZATION:

ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE STABILIZED WITH GRASS, MULCH OR SOD. SEE THE PROPOSED PLANS FOR ADDITIONAL INFORMATION.

STORMWATER RUNOFF CONSIDERATIONS:

NO ADDITIONAL IMPERVIOUS AREA WILL BE ADDED TO THIS PROJECT.

TOTAL LAND DISTURBANCE	=	11,878 SF (0.2727 ACRES)
PRE-IMPROVEMENT IMPERVIOUS AREA	=	8,631 SF (0.1981 ACRES)
POST-IMPROVEMENT IMPERVIOUS AREA	=	4,875 SF (0.1119 ACRES)
DECREASED IMPERVIOUS AREA	=	3,756 SF (0.0862 ACRES)

SOILS INFORMATION:

THE FOLLOWING SOILS ARE FOUND ON SITE

SOIL#:	SOIL NAME:	HYDROLOGIC GROUP:
11D	URBAN LAND-SASSAFRAS COMPLEX	B

FLOODPLAIN AND RESOURCE PROTECTION AREA (RPA):

THERE ARE NO FLOODPLAIN OR RESOURCE PROTECTION AREAS LOCATED WITHIN THIS PROJECT SITE

SEQUENCE OF CONSTRUCTION

1. PRE-CONSTRUCTION MEETING WITH THE PROJECT OFFICER, CONTRACTOR, AND COUNTY INSPECTOR.
2. INSTALL MAINTENANCE OF TRAFFIC CONTROLS.
3. INSTALL PERIMETER TREE DEMARCATION FENCING IN THE FORM OF TREE PROTECTION FENCE (TP) AS SHOWN ON E&S PLAN.
4. PERFORM INITIAL PERIMETER CLEARING TO INSTALL REMAINDER OF PERIMETER CONTROLS SUCH AS SILT FENCE (SF) AND INLET PROTECTION (IP) AT EXISTING STORM DRAIN INLETS AS PER THE PHASE I PLAN.
5. CONTACT ARLINGTON COUNTY PROJECT OFFICER FOR A PERIMETER INSPECTION PRIOR TO CLEARING THE REMAINDER OF THE SITE.
6. CLEAR THE SITE TO THE LIMITS AS SHOWN ON THE CONSTRUCTION PLANS.
7. REMOVE PORTIONS EXISTING ASPHALT PAVEMENT AND CONCRETE SIDEWALK DESIGNATED FOR RECONSTRUCTION.
8. ONCE THE SITE IS BROUGHT TO NEAR FINAL GRADE COMMENCE CONSTRUCTION OF CURB & GUTTER, STREET, SIDEWALKS, AND OTHER IMPROVEMENTS.
9. PERMANENTLY STABILIZE ALL DISTURBED AREAS WITH SOD OR PERMANENT SEEDING AND MULCHING.
10. THE CONTROL MEASURES MAY NOT BE REMOVED UNTIL ALL OF THE DISTURBED AREAS HAVE BEEN STABILIZED AND ONLY AS APPROVED AND DIRECTED BY THE INSPECTOR.

RUNOFF SHALL BE TREATED WITH SILT FENCE AND INLET PROTECTION PRIOR TO ENTERING MAJOR STORM SEWER SYSTEMS.

EROSION AND SEDIMENT CONTROL MEASURES

UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE CONSTRUCTED AND MAINTAINED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK AND THE ARLINGTON COUNTY EROSION AND SEDIMENT CONTROL ORDINANCE. THE MINIMUM STANDARDS OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK SHALL BE ADHERED TO UNLESS OTHERWISE WAIVED OR APPROVED BY A VARIANCE.

1. STRUCTURAL PRACTICES

a. SILT FENCE - VESCH 3.05

a.a. SILT FENCE WILL BE INSTALLED WITH THE E&S PLAN TO FILTER RUNOFF FROM DISTURBED AREAS. RUNOFF SHALL NOT BE DIRECTED PARALLEL TO THE INSTALLATION OF SILT FENCE.

a.b. SILT FENCES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.

a.c. CLOSE ATTENTION SHALL BE PAID TO THE REPAIR OF DAMAGED SILT FENCE RESULTING FROM UNDERCUTTING.

a.d. SHOULD THE FABRIC ON A SILT FENCE DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE, THE FABRIC SHALL BE REPLACED IMMEDIATELY.

a.e. SEDIMENT DEPOSITS SHALL BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.

a.f. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE, THEN PREPARED AND SEEDED.

b. TEMPORARY DIVERSION DIKE - VESCH 3.09

b.a. A SYSTEM OF TEMPORARY DIKES, TO DIRECT FLOW INTO PROPOSED & EXISTING STORM SEWER STRUCTURES WILL BE INSTALLED AS INDICATED IN EROSION & SEDIMENT CONTROL PLAN.

b.b. THE STRUCTURES SHALL BE INSPECTED AFTER EACH RAIN EVENT AND REPAIRS SHALL BE MADE AS NECESSARY.

c. STORM DRAIN INLET PROTECTION - VESCH 3.07

c.a. ALL EXISTING & PROPOSED STORM SEWER INLETS IN AND AROUND THE PROJECT LIMITS SHALL BE PROTECTED DURING CONSTRUCTION. SEDIMENT-LADEN WATER SHALL BE FILTERED BEFORE ENTERING THE STORM SEWER INLETS.

c.b. THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN EVENT AND REPAIRS SHALL BE MADE AS NECESSARY.

c.c. STRUCTURES SHALL BE REMOVED AND THE AREA STABILIZED WHEN THE REMAINING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

d. DEWATERING STRUCTURE - VESCH 3.26

d.a. SEDIMENT LADEN OR TURBID WATER SHALL BE FILTERED, SETTLED OR SIMILARLY TREATED PRIOR TO DISCHARGE.

d.b. THE FILTERING DEVICES MUST BE INSPECTED FREQUENTLY AND REPAIRED OR REPLACED ONCE THE SEDIMENT BUILD-UP PREVENTS THE STRUCTURE FROM FUNCTIONING AS DESIGNED.

d.c. THE ACCUMULATED SEDIMENT WHICH IS REMOVED FROM A DEWATERING DEVICE MUST BE SPREAD ON-SITE AND STABILIZED OR DISPOSED OF AT AN APPROVED DISPOSAL SITE AS PER THE APPROVED PLAN.

e. TREE PROTECTION - VESCH 3.38

e.a. ALL TREES ARE TO BE PROTECTED UNLESS OTHERWISE DIRECTED BY THE COUNTY INSPECTOR AND URBAN FORESTER. THE COUNTY'S URBAN FORESTER (703-228-1863) SHALL INSPECT ALL TREE PROTECTION 72 HOURS PRIOR TO THE START OF CONSTRUCTION. IN SPITE OF PRECAUTIONS, SOME DAMAGE TO PROTECTED TREES MAY OCCUR. IN SUCH CASES, THE FOLLOWING MAINTENANCE GUIDELINES SHALL BE FOLLOWED:

e.a.a. SOIL AERATION: IF THE SOIL HAS BECOME COMPACTED OVER THE ROOT ZONE OF ANY TREE, THE GROUND SHALL BE AERATED BY PUNCHING HOLES WITH AN IRON BAR. THE BAR SHALL BE DRIVEN 1-FOOT DEEP AND THEN MOVED BACK AND FORTH UNTIL THE SOIL IS LOOSENED. THIS PROCEDURE SHALL BE REPEATED EVERY 18 INCHES UNTIL ALL OF THE COMPACTED SOIL BENEATH THE CROWN OF THE TREE HAS BEEN LOOSENED.

e.a.b. REPAIR OF DAMAGE:

e.a.A.a. ANY DAMAGE TO THE CROWN, TRUNK, OR ROOT SYSTEM OF ANY TREE RETAINED ON THE SITE SHALL BE REPAIRED IMMEDIATELY.

e.a.A.b. WHENEVER MAJOR ROOT OR BARK DAMAGE OCCURS, REMOVE SOME FOLIAGE TO REDUCE THE DEMAND FOR WATER AND NUTRIENTS.

e.a.A.c. DAMAGED ROOTS SHALL IMMEDIATELY BE CUT OFF CLEANLY INSIDE THE EXPOSED OR DAMAGED AREA. CUT SURFACES SHALL BE PAINTED WITH APPROVED TREE PAINT, AND MOIST PEAT MOSS, BURLAP, OR TOPSOIL SHALL BE SPREAD OVER THE EXPOSED AREA.

e.a.A.d. TO TREAT BARK DAMAGE, CAREFULLY CUT AWAY ALL LOOSENED BARK BACK INTO THE UNDAMAGED AREA, TAPER THE CUT AT THE TOP AND BOTTOM, AND PROVIDE DRAINAGE AT THE BASE OF THE WOUND.

e.a.A.e. ALL TREE LIMBS DAMAGED DURING CONSTRUCTION OR REMOVED FOR ANY OTHER REASON SHALL BE CUT OFF ABOVE THE COLLAR AT THE PRECEDING BRANCH JUNCTION.

e.a.A.f. CARE FOR SERIOUS INJURIES SHALL BE PRESCRIBED BY A FORESTER OR A TREE SPECIALIST.

e.b. FERTILIZATION: BROADLEAF TREES THAT HAVE BEEN STRESSED OR DAMAGED SHALL RECEIVE A HEAVY APPLICATION OF FERTILIZER TO AID THEIR RECOVERY.

e.b.a. TREES SHALL BE FERTILIZED IN THE LATE FALL (AFTER OCTOBER 1) OR THE EARLY SPRING (FROM THE TIME FROST IS OUT OF THE GROUND UNTIL MAY 1). FALL APPLICATIONS ARE PREFERRED, AS THE NUTRIENTS WILL BE MADE AVAILABLE OVER A LONGER PERIOD OF TIME.

e.b.b. FERTILIZER SHALL BE APPLIED TO THE SOIL OVER THE FEEDER ROOTS. IN NO CASE SHALL IT BE APPLIED CLOSER THAN 3 FEET TO THE TRUNK. THE ROOT SYSTEM OF CONIFERS EXTENDS SOME DISTANCE BEYOND THE DRIP LINE. INCREASE THE AREA TO BE FERTILIZED BY ONE FOURTH THE AREA OF THE CROWN.

e.b.c. FERTILIZER SHALL BE APPLIED USING APPROVED FERTILIZATION METHODS AND EQUIPMENT.

e.b.d. FORMULATIONS AND APPLICATION RATES SHALL CONFORM TO THE GUIDELINES GIVEN IN TABLE 3.38-A OF VESCH.

2. VEGETATIVE PRACTICES

a. TOPSOILING (STOCKPILE) - VESCH 3.30

a.a. TOPSOIL WILL BE STRIPPED FROM AREAS TO BE GRADED AND STOCKPILED FOR LATER USE. STOCKPILE LOCATIONS MAY HAVE TO BE LOCATED OFF-SITE AND ARE TO BE STABILIZED WITH TEMPORARY VEGETATION. PRIOR TO LAND-DISTURBING ACTIVITIES, THE CONTRACTOR SHALL SUBMIT A SUPPLEMENTARY E&S PLAN (IF THE STOCKPILE IS LOCATED OFF-SITE). THIS SUPPLEMENTAL PLAN WOULD HAVE TO BE APPROVED BY THE PLAN APPROVING AUTHORITY BEFORE ANY OFF-SITE ACTIVITY COMMENCES.

b. TEMPORARY SEEDING - VESCH 3.31

b.a. ALL DENUDED AREAS, WHICH WILL BE LEFT DORMANT FOR EXTENDED PERIODS OF TIME SHALL BE SEEDED WITH FAST GERMINATING TEMPORARY VEGETATION IMMEDIATELY FOLLOWING GRADING. SELECTION OF THE SEED MIXTURE WILL DEPEND ON THE TIME OF YEAR IT IS APPLIED.

b.b. SEE SHEET III-288 OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK (VESCH) FOR ALLOWABLE PLANTING MATERIAL, SEEDING RATES, AND DATES. THE PLANTING REQUIREMENTS OF THE "SOUTH" SHALL BE FOLLOWED. LIMING SHALL BE BASED ON TABLE 3.31-A OF VESCH. FERTILIZERS SHALL BE APPLIED AS 600 LB/ACRE. THE FERTILIZER SHALL BE INCORPORATED INTO THE TOP 2-4" OF SOIL. SEED SHALL BE EVENLY APPLIED AND SMALL GRAINS SHALL BE PLANTED NO MORE THAN 1.5" DEEP. SEEDING MADE IN FALL FOR WINTER COVER AND DURING HOT SUMMER MONTHS SHALL BE MULCHED.

c. EROSION CONTROL BLANKET AND MULCHING - VESCH 3.36 AND 3.35

c.a. EROSION CONTROL BLANKETS WILL BE INSTALLED OVER FILL SLOPES WHICH HAVE BEEN BROUGHT TO FINAL GRADE AND HAVE BEEN SEEDED TO PROTECT THE SLOPES FROM RILL AND GULLY EROSION AND TO ALLOW SEED TO GERMINATE PROPERLY. MULCH (STRAW OR FIBER) WILL BE USED ON RELATIVELY FLAT AREAS AND WILL BE APPLIED AS A SECOND STEP IN SEEDING OPERATION.

d. DUST CONTROL - VESCH 3.39

d.a. DUST SHALL BE CONTROLLED USING A VARIETY OF METHODS SUCH AS VEGETATIVE COVER, MULCH, TILLAGE, IRRIGATION, SPRAY-ON ADHESIVES, STONE BARRIERS, AND CALCIUM CHLORIDE. THE IMPLEMENTATION OF THE DUST CONTROL METHODS SHALL BE INSTALLED PER SECTION 3.39 OF VESCH

e. PERMANENT SEEDING - VESCH 3.32

e.a. SINCE THE SUBJECT SITE IS LOCATED WITHIN THE COASTAL PLAIN AREA OF VIRGINIA, SHEET III-304 OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK SHALL BE FOLLOWED FOR FINAL SEEDING MATERIAL, SEEDING RATES, AND DATES OF APPLICATION.

f. SODDING - VESCH 3.33

f.a. SODDED AREAS SHALL BE BROUGHT TO FINAL GRADE IN ACCORDANCE WITH THE APPROVED PLANS. SOIL TESTS SHALL BE MADE TO DETERMINE THE EXACT REQUIREMENTS FOR LIME AND FERTILIZER. PRIOR TO LAYING SOD, SOIL SURFACE SHALL BE CLEAR OF TRASH, DEBRIS AND LARGE OBJECTS. QUALITY OF SOD SHALL BE STATE CERTIFIED TO ENSURE GENETIC PURITY AND HIGH QUALITY. SOD SHALL NOT BE LAID ON FROZEN SOIL SURFACE, OR IN EXCESSIVELY WET OR DRY WEATHER. SOD SHALL BE DELIVERED AND INSTALLED WITHIN 36 HOURS, AND SHALL BE INSTALLED PER PAGE III-339 OF VESCH.

THE EROSION AND SEDIMENT CONTROL INSPECTOR SHALL HAVE THE AUTHORITY TO ADD OR DELETE EROSION AND SEDIMENT CONTROLS AS NEEDED IN THE FIELD. IN ADDITION, NO SEDIMENT TRAPS OR BASINS MAY BE REMOVED WITHOUT PRIOR APPROVAL OF THE INSPECTOR.

EROSION AND SEDIMENT CONTROL MANAGEMENT MEASURES

LANDSCAPE / TREE PRESERVATION NOTES

PRIOR TO ANY LAND DISTURBING ACTIVITY, THE CONTRACTOR SHALL CONTACT THE ARLINGTON COUNTY ARBORIST TO SCHEDULE AN INSPECTION.

LAND CONSERVATION NOTES:

1. NO DISTURBED AREA WILL REMAIN DENUDED FOR MORE THAN 7 CALENDAR DAYS UNLESS OTHERWISE AUTHORIZED BY THE DIRECTOR OR HIS AGENT.
2. ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO OR AS THE FIRST STEP IN GRADING. FIRST AREAS TO BE CLEARED ARE TO BE THOSE REQUIRED FOR THE PERIMETER CONTROLS.
3. ALL STORM AND SANITARY SEWER LINES NOT IN STREETS ARE TO BE MULCHED AND SEEDED WITHIN 5 DAYS AFTER BACKFILL. NO MORE THAN 100 FEET ARE TO BE OPEN AT ANY ONE TIME.
4. ELECTRIC POWER, TELEPHONE AND GAS SUPPLY TRENCHES ARE TO BE COMPACTED, SEEDED AND MULCHED WITHIN 5 DAYS AFTER BACKFILLING.
5. ALL TEMPORARY EARTH BERMS, DIVERSIONS AND SEDIMENT CONTROL DAMS ARE TO BE MULCHED AND SEEDED FOR TEMPORARY VEGETATIVE COVER IMMEDIATELY AFTER GRADING. STRAW OR HAY MULCH IS REQUIRED. THE SAME APPLIES TO ALL SOIL STOCKPILES.
6. DURING CONSTRUCTION, ALL STORM SEWER INLETS WILL BE PROTECTED BY INLET PROTECTION.
7. ANY DISTURBED AREA NOT COVERED BY NOTE 1 ABOVE AND NOT PAVED, SODDED OR BUILT UPON BY NOV. 1, OR DISTURBED AFTER THAT DATE, SHALL BE MULCHED IMMEDIATELY WITH HAY OR STRAW MULCH AT THE RATE OF 2 TONS/ACRE AND OVER-SEEDED BY APRIL 15.
8. AT THE COMPLETION OF ANY PROJECT CONSTRUCTION AND PRIOR TO BOND RELEASE, ALL TEMPORARY SEDIMENT CONTROLS SHALL BE REMOVED AND ALL DENUDED AREAS SHALL BE STABILIZED.

EROSION & SEDIMENT CONTROL PROGRAM:

1. THE EROSION CONTROL PLAN IS INTENDED TO ESTABLISH ENTRANCES AND PERIMETER CONTROL MEASURES WHICH INCLUDES SILT FENCE (SF), INLET PROTECTION (IP), AND OTHER CONTROLS SPECIFIED ON THE PLANS.
2. WHERE CONSISTENT WITH JOB SAFETY REQUIREMENTS, ALL EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF TRENCHES. NO MATERIAL SHALL BE PLACED IN STREAMBEDS. ANY STOCKPILED MATERIAL WHICH WILL REMAIN IN PLACE LONGER THAN 7 DAYS SHALL BE SEEDED AND MULCHED. WHEN SPOIL IS PLACED ON THE DOWNHILL SIDE OF TRENCH, IT SHALL BE BACKSLOPED TO DRAIN TOWARD THE TRENCH. WHEN NECESSARY TO DEWATER THE TRENCH, THE PUMP DISCHARGE HOSE SHALL OUTLET IN A STABILIZED AREA OR A SEDIMENT TRAPPING DEVICE.
3. ALL PRACTICES AND CONTROL DEVICES DESCRIBED HEREIN SHALL CONFORM TO THE CURRENT VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK (VESCH). IN ADDITION, THE CONTRACTOR SHALL TAKE THE FOLLOWING STEPS TO MINIMIZE THE VOLUME OF SILT:
   a. CONTRACTOR SHALL EVALUATE THE SITE TO DETERMINE EXTENSIVE CUT AND FILL AREAS, AND SHALL WORK THOSE AREAS TO MINIMIZE THE USE OF HEAVY EQUIPMENT. CONTRACTOR SHALL BRING DISTURBED AREAS TO GRADE (ROUGH OR FINISHED) AND STABILIZE THOSE AREAS WITH TEMPORARY OR PERMANENT VEGETATION. THESE DISTURBED AREAS SHALL BE STABILIZED PRIOR TO BEGINNING WORK IN ANOTHER AREA.
   b. FILL AREAS SHALL BE COMPACTED COMPLETELY PRIOR TO THE END OF EACH WORK DAY. FILL SLOPE SURFACES SHALL BE KEPT ROUGH TO REDUCE SHEET EROSION OF THE SLOPES. CONTRACTOR SHALL RE-DIRECT CONCENTRATED RUNOFF, BY EARTH BERMS OR OTHER DEVICES, AROUND ACTIVELY DISTURBED AREAS TO STABILIZED OUTLETS.
   c. CUT SLOPES SHALL BE PROTECTED FROM CONCENTRATED FLOW BY BERMS (ABOVE THE SLOPE) AND DIRECTED AROUND THE DISTURBED AREA TO STABILIZED OUTLETS.
4. MEASURES TO CONTROL EROSION AND SILTATION SHALL BE PROVIDED PURSUANT TO AND IN COMPLIANCE WITH CURRENT STATE AND LOCAL REGULATIONS. THE INFORMATION CONTAINED IN THE CONSTRUCTION PLANS AND/OR THE APPROVAL OF THE PLANS SHALL IN NO WAY RELIEVE THE CONTRACTOR OR HIS AGENT OF ANY LEGAL RESPONSIBILITY WHICH MAY BE REQUIRED BY THE CODE OF VIRGINIA AND CHAPTER 57 OF THE ARLINGTON COUNTY CODE.
5. ALL AREAS, ON OR OFF-SITE, THAT ARE DISTURBED BY THIS CONSTRUCTION AND WHICH ARE NOT PAVED OR BUILT UPON SHALL BE ADEQUATELY STABILIZED TO CONTROL EROSION AND SEDIMENTATION. ACCEPTABLE STABILIZATION SHALL CONSIST OF PERMANENT GRASS SEED MIXTURE OR SOD THAT IS INSTALLED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS. ALL SLOPES 3:1 AND GREATER SHALL BE RECEIVE SOIL STABILIZATION IN ACCORDANCE WITH THE SPECIFICATIONS.
6. WHERE STREAM CROSSINGS ARE REQUIRED FOR EQUIPMENT, TEMPORARY CULVERTS SHALL BE PROVIDED.
7. FOR FURTHER REQUIREMENTS AND DETAILS OF TREE PRESERVATION, PLANTING, EROSION AND SEDIMENT CONTROL, SEE COUNTY CONSTRUCTION STANDARDS AND SPECIFICATIONS AND/OR THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK.

GENERAL EROSION AND SEDIMENT CONTROL NOTES

1. UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED AND MAINTAINED ACCORDING TO THE MINIMUM STANDARDS AND SPECIFICATIONS OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK AND VIRGINIA REGULATIONS VR 625-02-00 EROSION AND SEDIMENT CONTROL REGULATIONS.
2. THE PLAN APPROVING AUTHORITY MUST BE NOTIFIED ONE WEEK PRIOR TO THE PRE-CONSTRUCTION CONFERENCE, ONE WEEK PRIOR TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITY, AND ONE WEEK PRIOR TO THE FINAL INSPECTION.
3. ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO OR AS THE FIRST STEP IN CLEARING.
4. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
5. PRIOR TO COMMENCING LAND DISTURBING ACTIVITIES IN THE AREAS OTHER THAN INDICATED ON THESE PLANS (INCLUDING, BUT NOT LIMITED TO, OFF-SITE BORROW OR WASTE AREAS), THE CONTRACTOR SHALL SUBMIT A SUPPLEMENTARY EROSION AND SEDIMENT CONTROL PLAN TO THE OWNER FOR REVIEW AND APPROVAL BY THE PLAN APPROVING AUTHORITY.
6. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE PLAN APPROVING AUTHORITY.
7. ALL DISTURBED AREAS ARE TO DRAIN TO APPROVED SEDIMENT CONTROL MEASURES AT ALL TIMES DURING LAND DISTURBING ACTIVITIES AND DURING SITE DEVELOPMENT UNTIL FINAL STABILIZATION IS ACHIEVED.
8. DURING DEWATERING OPERATIONS, WATER WILL BE PUMPED INTO AN APPROVED FILTERING DEVICE.
9. THE CONTRACTOR SHALL INSPECT ALL EROSION AND SEDIMENT CONTROL MEASURES PERIODICALLY AND AFTER EACH RUNOFF-PRODUCING RAINFALL EVENT. ANY NECESSARY REPAIRS OR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF THE EROSION CONTROL DEVICES SHALL BE MADE IMMEDIATELY.
10. ALL BIOFILTERS SHALL BE KEPT OFF-LINE UNTIL CONSTRUCTION IS COMPLETED AND ALL AREAS HAVE BEEN PROPERLY STABILIZED. THIS SHALL BE ACHIEVED BY USING INLET PROTECTION AT THE CURB CUTS AND STORMWATER CATCH BASINS LEADING DIRECTLY INTO THE BIOFILTERS.
11. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED.

POLLUTION PREVENTION PLAN NOTES (STORMWATER MANUAL - SECTION 2.4)

1. ONLY THE FOLLOWING NON-STORMWATER DISCHARGES ARE AUTHORIZED BY ARLINGTON COUNTY'S MS4 PERMIT, UNLESS THE STATE WATER CONTROL BOARD, THE VIRGINIA SOIL AND WATER CONSERVATION BOARD (BOARD), OR ARLINGTON COUNTY DETERMINES THE DISCHARGE TO BE A SIGNIFICANT SOURCE OF POLLUTANTS TO SURFACE WATERS:
   a. WATER LINE FLUSHING; LANDSCAPE IRRIGATION; DIVERTED STREAM FLOWS; RISING GROUND WATERS; UNCONTAMINATED GROUND WATER INFILTRATION (AS DEFINED AT 40 CFR 35.2005(20)); UNCONTAMINATED PUMPED GROUND WATER; DISCHARGES FROM POTABLE WATER SOURCES; FOUNDATION DRAINS; AIR CONDITIONING CONDENSATION; IRRIGATION WATER; SPRINGS; WATER FROM CRAWL SPACE PUMPS; FOOTING DRAINS; LAWN WATERING; INDIVIDUAL RESIDENTIAL CAR WASHING; FLOWS FROM RIPARIAN HABITATS AND WETLANDS; DECHLORINATED SWIMMING POOL DISCHARGES; DISCHARGES OR FLOWS FROM FIREFIGHTING; AND, OTHER ACTIVITIES GENERATING DISCHARGES IDENTIFIED BY THE DEPARTMENT OF ENVIRONMENTAL QUALITY AS NOT REQUIRING VPDES AUTHORIZATION.
2. APPROPRIATE CONTROLS MUST BE IMPLEMENTED TO PREVENT ANY NON-STORMWATER DISCHARGES NOT INCLUDED ON THE ABOVE LIST (E.G., CONCRETE WASH WATER, PAINT WASH WATER, VEHICLE WASH WATER, DETERGENT WASH WATER, ETC.) FROM BEING DISCHARGED INTO ARLINGTON COUNTY'S MS4 SYSTEM, WHICH INCLUDES THE CURB AND GUTTER SYSTEM, AS WELL AS CATCH BASINS AND OTHER STORM DRAIN INLETS, OR STREAM NETWORK.
3. PER CHAPTER 26 OF THE ARLINGTON COUNTY CODE, IT SHALL BE UNLAWFUL FOR ANY PERSON TO DISCHARGE DIRECTLY OR INDIRECTLY INTO THE STORM SEWER SYSTEM OR STATE WATERS, ANY SUBSTANCE LIKELY, IN THE OPINION OF THE COUNTY MANAGER, TO HAVE AN ADVERSE EFFECT ON THE STORM SEWER SYSTEM OR STATE WATERS.

UTILITY INSTALLATION:

UNDERGROUND UTILITY LINES SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING STANDARDS IN ADDITION TO OTHER APPLICABLE CRITERIA:

1. NO MORE THAN 100 LINEAR FEET OF TRENCH MAY BE OPENED AT ONE TIME.
2. EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF TRENCHES.
3. EFFLUENT FROM DEWATERING OPERATIONS SHALL BE FILTERED OR PASSED THROUGH AN APPROVED SEDIMENT TRAPPING DEVICE, OR BOTH, AND DISCHARGED IN A MANNER THAT DOES NOT ADVERSELY AFFECT FLOWING STREAMS OR OFF-SITE PROPERTY.
4. MATERIAL USED FOR BACKFILLING TRENCHES SHALL BE PROPERLY COMPACTED IN ORDER TO MINIMIZE EROSION AND PROMOTE STABILIZATION.
5. STABILIZATION SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THESE REGULATIONS.
6. APPLICABLE SAFETY REGULATIONS SHALL BE COMPLIED WITH.
9. ANY DISTURBED AREA NOT COVERED BY NOTE #1 ABOVE AND PAVED, SODDED OR BUILT UPON BY NOVEMBER 1ST, OR DISTURBED AFTER THAT DATE, SHALL BE MULCHED WITH HAY OR STRAW AT THE RATE OF 2 TONS PER ACRE AND OVER-SEEDED NO LATER THAN MAY 15TH.
10. AT THE COMPLETION OF THE CONSTRUCTION PROJECT AND PRIOR TO BOND RELEASE, ALL TEMPORARY SEDIMENT CONTROLS SHALL BE REMOVED AND ALL DENUDED AREAS SHALL BE STABILIZED. ARLINGTON COUNTY INSPECTOR TO APPROVE REMOVAL OF ALL TEMPORARY SILTATION MEASURES.

MAINTENANCE PROGRAM:

THE FOLLOWING IS A PROGRAM OF MAINTENANCE FOR THE MECHANICAL CONTROLS SPECIFIED IN THIS NARRATIVE AND ON THE PLAN:

1. THE SITE SUPERINTENDENT OR HIS/HER REPRESENTATIVE SHALL MAKE A VISUAL INSPECTION OF ALL MECHANICAL CONTROLS AND NEWLY STABILIZED AREA (I.E. SEEDED AND MULCHED AND/OR SODDED AREAS) ON A DAILY BASIS; ESPECIALLY AFTER A HEAVY RAINFALL EVENT TO ENSURE THAT ALL CONTROLS ARE MAINTAINED AND PROPERLY FUNCTIONING. ANY DAMAGED CONTROLS SHALL BE REPAIRED PRIOR TO THE END OF THE WORK DAY INCLUDING RE-SEEDING AND MULCHING OR RE-SODDING IF NECESSARY.
2. ALL SEDIMENT TRAPPING DEVICES SHALL BE CLEARED OUT AT 50% TRAP CAPACITY AND THE SEDIMENT SHALL BE DISPOSED OF BY SPREADING ON THE SITE OR IF NOT SUITABLE FOR FILL, HAULING AWAY AND DEPOSITING AT AN ACCEPTABLE DUMP SITE.
3. THE CONTRACTOR SHALL TAKE SPECIAL CARE TO PREVENT MUD AND/OR OTHER DEBRIS FROM BEING ENTERED ONTO EXISTING SWM/BMP FACILITIES OR DOWNSTREAM WATER WAYS. SHOULD OFF-SITE AREAS BECOME POLLUTED BY CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING THE AFFECTED AREAS TO THE SATISFACTION OF THE INSPECTOR.
4. AT THE COMPLETION OF CONSTRUCTION AND PRIOR TO BOND RELEASE, ALL TEMPORARY SEDIMENT CONTROLS SHALL BE REMOVED AND ANY REMAINING DENUDED AREAS SHALL BE STABILIZED. CERTAIN DEVICES MAY BE REMOVED PRIOR TO CONSTRUCTION COMPLETION BUT ONLY WITH THE APPROVAL OF THE COUNTY INSPECTOR.
5. AFTER CONSTRUCTION OPERATIONS HAVE ENDED, ALL DISTURBED AREAS SHALL BE STABILIZED. UP

08/29/2019
date

Qianqian Li, P.E.
ESC Program Administrator
Department of Environmental Sevices
2100 Clarendon Boulevard, Suite 813
Arlington, Virginia 22201

Re: Erosion and Sediment Control Permit Application for:

Intersection of S Arlington Ridge Rd and S Lang St
street address

lot, block, section subdivision

LDA19133
permit number

Dear Mrs. Li:

I hereby certify that I accept the responsibilities of Responsible Land Disturber for the above referenced project. I understand that these responsibilities include:

1. Reviewing the erosion and sedimentation (E&S) plan for the project.
2. Walking the site prior to construction to identify critical areas.
3. Conducting a pre-construction briefing with earth moving and site contractors to present the E&S plan and highlight the presence of critical areas, the limits of clearing and the required E&S controls and tree protection measures to be installed. Call 703-228-0760 to schedule pre-construction meeting.
4. Regularily inspecting the site during construction to ensure that all E&S controls are functioning and are adequate to address erosion and sedimentation. Inspect the site 48 hours after a runoff-generating storm, and provide a copy of the inspection findings to the county.
5. Reporting to the owner the presence inadequate or non functioning E&S controls when they are observed.
6. Ensuring that temporary soil stabilization is applied within 7 days to areas denuded that will remain undisturbed for longer than 14 days. Permanent stabilization shall be applied to areas that are to be left dormant for more than one year.
7. Calling (703) 228-0760 at least 80 hours before demolishing any structure.

I may be reached at (703) 228-3604 with questions about this plan or my execution of the duties of
telephone number
Responsible Land Disturber.

Sincerely,

signed

Peter J. Rigby, Jr
name printed

VA PE 019746
professional registration (type and number)

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.

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

SEED		
APPLICATION DATES	**SPECIES**	**APPLICATION RATES**
Sept. 1 - Feb. 15	50/50 Mix of Annual Ryegrass (Iolium multi-florum) & Cereal (Winter) Rye (Secale cereale)	50 -100 (lbs/acre)
Feb. 16 - Apr. 30	Annual Ryegrass (Iolium multi-florum)	60 - 100 (lbs/acre)
May 1 - Aug. 31	German Millet	50 (lbs/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 90 lbs. / 1,000 sq. ft.)

NOTE:
1 - A soil test is necessary to determine the actual amount of lime required to adjust the soil pH of site.
2 - Incorporate the lime and fertilizer into the top 4 – 6 inches of the soil by disking or by other means.
3 - 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/sw/e&s.htm#pubs

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

SEED[1]		
LAND USE	**SPECIES**	**APPLICATION RATES**
Minimum Care Lawn (Commercial or Residential)	Tall Fescue[1] **or** Bermudagrass[1]	175 - 200 lbs. 75 lbs.
High-Maintenance Lawn	Tall Fescue[1] **or** Bermudagrass[1] (seed) **or** Bermudagrass[1] (by other vegetative establishment method, see Std. & Spec. 3.34)	200-250 lbs. 40 lbs. (unhulled) 30 lbs. (hulled)
General Slope (3:1 or less)	Tall Fescue[1] Red Top Grass or Creeping Red Fescue Seasonal Nurse Crop[2]	128 lbs. 2 lbs. 20 lbs. TOTAL: 150 lbs.
Low-Maintenance Slope (Steeper than 3:1)	Tall Fescue[1] Bermudagrass[1] Red Top Grass or Creeping Red Fescue Seasonal Nurse Crop[2] Sericea Lespedeza[3]	93-108 lbs. 0-15 lbs. 2 lbs. 20 lbs. 20 lbs. TOTAL: 150 lbs.

1 - When selecting varieties of turfgrass, use the Virginia Crop Improvement Association (VCIA) recommended turfgrass variety list. Quality seed will bear a label indicating that they are approved by VCIA. A current turfgrass variety list is available at the local County Extension office or through VCIA at 804-746-4884 or at http://sudan.cses.vt.edu/html/Turf/turf/publications/publications2.html

2 - Use seasonal nurse crop in accordance with seeding dates as stated below:

February, March - April …….	Annual Rye
May 1st - August ……..……	Foxtail Millet
September, October - November 15th ……	Annual Rye
November 16th - January …….	Winter Rye

3 - 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, increase to 30 -40 lbs/acre.

FERTILIZER & LIME

- Apply 10-20-10 **fertilizer** at a rate of **500** lbs. / acre (or 12 lbs. / 1,000 sq. ft.)
- Apply **Pulverized Agricultural Limestone** at a rate of 2 tons/acre (or 90 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/sw/e&s.htm#pubs

ARLINGTON
VIRGINIA

DEPARTMENT OF ENVIRONMENTAL SERVICES
FACILITIES & ENGINEERING DIVISION
ENGINEERING BUREAU
2100 CLARENDON BOULEVARD, SUITE 813
ARLINGTON, VA 22201
PHONE: 703.228.3629
FAX: 703.228.3606

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SEAL

COMMONWEALTH OF VIRGINIA
PETER J. RIGBY, JR.
Lic. No. 019746
11/5/19
PROFESSIONAL ENGINEER

APPROVALS	DATE
	11.18.2019
QUALITY CONTROL ENGINEER	
	11/18/19
CONSTRUCTION MANAGEMENT SUPERVISOR	
	11/19/19
WATER, SEWER, STREETS BUREAU CHIEF	
	11/19/19
TRANSPORTATION DIRECTOR	
	Nov 19 2019
PROJECT MANAGER	

REVISIONS	DATE

S ARLINGTON RIDGE RD AT S LANG ST
DC13
INTERSECTION IMPROVEMENTS

EROSION AND SEDIMENT CONTROL DETAILS 1

DESIGNED: L. DELACRUZ
DRAWN: L. DELACRUZ
CHECKED: P. RIGBY
MISS UTILITY TRANSMITTAL #: N/A

PLOTTED: NOVEMBER 20 2019

SCALE:

AS SHOWN

SHEET 8 OF 27

REVISED ON 05/23/2018
FILENAME: DC13-220-E_AND_S_NOTES_SWWP.DWG PATH: Q:\DATA\DC13\DESIGN\CAD\ACTIVE PLOTTED BY: LDELACRUZ

REVISED ON 05/23/2018

DEWATERING DEVICE

FILTER BOX

ELEVATION VIEW

SOURCE: VA. DSWC

PLATE: 3.26-2

NOTES

1. DIMENSIONAL LUMBER SIZES SHOW.
2. GRAVEL SHALL BE VDOT COARSE AGGREGATE #3, # 357 OR #5.
3. WEIR HEIGHT MAY BE ADJUSTED BY PROJECT OFFICER OR INSPECTOR IN FLOOD PRONE AREAS.
4. PAINT 2"X4" WEIR, CLOSED BASKET, AND GUTTER WITH HIGH VISIBILITY INCANDESCENT ORANGE PAINT.
5. REMOVE SEDIMENT AFTER EACH RAIN EVENT TO MAINTAIN FUNCTION AND AVOID PREMATURE CLOGGING. IF INLET PROTECTION DOES NOT COMPLETELY DRAIN WITHIN 24 HOURS AFTER A STORM EVENT, IT IS CLOGGED. WHEN THIS OCCURS, REMOVE ACCUMULATED SEDIMENT AND CLEAN, OR REPLACE THE PROTECTION.

CURB INLET PROTECTION

REVISION & DATE

ARLINGTON VIRGINIA

ARLINGTON COUNTY, VIRGINIA
DEPARTMENT OF ENVIRONMENTAL SERVICES

DRAWING NO. 3.07-7 (ACG)

NOTES

1. ROOT PRUNING SHALL BE DONE WITH A TRENCHER OR VIBRATORY PLOW TO A DEPTH OF 12". ROOTS OVER 1.5" IN DIAMETER SHALL HAVE A CLEAN CUT MADE BY A CLEAN SAW ON THE SURFACE OF THE ROOT, WHICH IS STILL ATTACHED TO THE TREE. DO NOT BREAK OR CHOP. DO NOT PAINT THE CUT ROOT END. IF EXCAVATION IS FOR INSTALLATION OF UNDERGROUND UTILITIES, LEAVE THE ROOT INTACT AND THREAD THE LINES UNDERNEATH.

2. ROOT PRUNING SHALL TAKE PLACE PRIOR TO ANY CLEARING AND GRADING. EXACT LOCATION OF TREE PROTECTION AREAS SHALL BE STAKED OR FLAGGED PRIOR TO TRENCHING AND SHALL BE APPROVED BY ARLINGTON COUNTY URBAN FORESTER.

3. ROOT PRUNING SHALL BE CONDUCTED WITH THE SUPERVISION OF AN ISA CERTIFIED ARBORIST.

4. BACKFILL THE ROOT-PRUNING TRENCH WITH APPROVED LOOSE TOPSOIL MIX AND TOP WITH 3-4" BARK MULCH AND MARK LOCATION FOR FUTURE REFERENCE. SILT FENCE MAY BE INSTALLED IN TRENCH PRIOR TO BACKFILLING AS LONG AS THE TRENCH IS NOT OPEN FOR LONGER THAN 48 HOURS WITHOUT WATERING.

5. ROOT PRUNING WORK SHALL NOT BE DONE WHEN MORE THAN THE TOP 1 INCH OF SOIL IS FROZEN. ROOT PRUNING SHALL NOT BE UNDERTAKEN WHEN THE SOIL IS WET AND CONDITIONS ARE MUDDY.

6. THE ARLINGTON COUNTY URBAN FORESTER SHALL BE NOTIFIED 72 HOURS PRIOR TO TRENCHING AND WHEN ALL ROOT PRUNING AND TREE PROTECTION FENCE INSTALLATION IS COMPLETE.

ROOT PRUNING

311300.5 (2019)

N.T.S.

ARLINGTON VIRGINIA DPR

CONSTRUCTION OF A SILT FENCE (WITH WIRE SUPPORT)

SOURCE: Adapted from Installation of Straw and Fabric Filter Barriers for Sediment Control, Sherwood & Wyant

PLATE. 3.05-1

NOTES:

1. TREE PROTECTION FENCE (TPF) SHALL BE INSTALLED PRIOR TO ANY SITE WORK, CLEARING OR DEMOLITION. ARLINGTON COUNTY URBAN FORESTER SHALL BE NOTIFIED 72 HOURS PRIOR TO INSTALLATION OR ANY OTHER TREE PRESERVATION MEASURE SPECIFIED IN PLANS AND SHALL APPROVE LAYOUT.
2. NO PERSONNEL, VEHICLES, EQUIPMENT, CONSTRUCTION MATERIALS OR DEBRIS ALLOWED IN TREE PROTECTION AREAS WITHOUT WRITTEN CONSENT OF ARLINGTON COUNTY URBAN FORESTER.
3. REMOVE TPF ONLY WITH APPROVAL FROM ARLINGTON COUNTY URBAN FORESTER AFTER ALL SITE WORK HAS BEEN COMPLETED.
4. SIGN MATERIAL TO BE WEATHER RESISTANT.

6' CHAIN LINK TREE PROTECTION FENCE

311300.1 (2016) (02231.1)

1/2" = 1'-0"

ARLINGTON VIRGINIA DPR

NOTES:

1. GRAPHICALLY, THE CRITICAL ROOT ZONE (CRZ) IS REPRESENTED AS A CIRCULAR REGION MEASURED OUTWARD FROM A TREE TRUNK REPRESENTING THE AREA OF ROOTS THAT MUST BE MAINTAINED OR PROTECTED FOR THE TREE'S SURVIVAL.

2. THE CRZ OF A TREE IS THE ZONE IN WHICH THE MAJORITY OF THE ROOTS LAY. 95% OF THE ROOTS OF MOST TREES WILL BE FOUND IN THE UPPER 12-18" OF THE SOIL. MOST OF THE ROOTS THAT SUPPLY THE NUTRIENTS AND WATER TO THE TREE ARE FOUND JUST BELOW THE SOIL SURFACE. THE TOTAL AMOUNT OF A TREE'S ROOTS ARE GENERALLY PROPORTIONAL TO THE VOLUME OF THE TREE'S CANOPY. THEREFORE, IF THE ROOTS ONLY PENETRATE A THIN LAYER OF SOIL, THEN THE ROOTS MUST SPREAD FAR FROM THE TREE, BEYOND THE EXTENSION OF THE CANOPY.

3. PLOT ACCURATE TRUNK LOCATIONS OF ALL TREES GREATER THAN 3" DIAMETER AT BREAST HEIGHT (DBH) AND/OR TREE STANDS WITHIN DEVELOPMENT AREAS ON ALL PLANS FOR THE PROJECT AND DELINEATE THEIR ESTIMATED CRITICAL ROOT ZONE.

4. PLOT ACCURATE TRUNK LOCATIONS OF OFFSITE TREES WHICH WILL HAVE THEIR CRZ AFFECTED BY DEVELOPMENT AND DELINEATE THEIR ESTIMATED CRITICAL ROOT ZONE.

TREE PROTECTION DETAIL FOR DETERMINING CRITICAL ROOT ZONE

311300.3 (2019)

N.T.S.

ARLINGTON VIRGINIA DPR

ARLINGTON VIRGINIA

DEPARTMENT OF ENVIRONMENTAL SERVICES
FACILITIES & ENGINEERING DIVISION
ENGINEERING BUREAU
2100 CLARENDON BOULEVARD, SUITE 813
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SEAL

COMMONWEALTH OF VIRGINIA
PETER J. RIGBY, JR.
Lic. No. 01874
11/5/19
PROFESSIONAL ENGINEER

APPROVALS	DATE
QUALITY CONTROL ENGINEER	11.18.2019
CONSTRUCTION MANAGEMENT SUPERVISOR	11/18/19
WATER, SEWER, STREETS BUREAU CHIEF	11/19/19
TRANSPORTATION DIRECTOR	11/19/19
PROJECT MANAGER	Nov 19 2019

REVISIONS	DATE

S ARLINGTON RIDGE RD AT S LANG ST
DC13
INTERSECTION IMPROVEMENTS

EROSION AND SEDIMENT CONTROL DETAILS 2

DESIGNED: L. DELACRUZ
DRAWN: L. DELACRUZ
CHECKED: P. RIGBY
MISS UTILITY TRANSMITTAL #: N/A

PLOTTED: NOVEMBER 20 2019

SCALE:

AS SHOWN

SHEET 9 OF 27

FILENAME: DC13-220-E_AND_S_NOTES_SWMP.DWG PATH: Q:\DATA\DC13\DESIGN\CAD\ACTIVE PLOTTED BY: LDELACRUZ

STORMWATER POLLUTION PREVENTION PLAN (SWPPP) COVER PAGE

For Construction Activities At:

Intersection of S Arlington Ridge Rd and S Lang St

Latitude: 38.848233 N (decimal degrees)

Longitude: 77.067242 W (decimal degrees)

Construction Activity Operator:

To Be Determined through BID selection

SWPPP Preparation Date:

May 30, 2019

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: _____

1.0 SWPPP Documents Located Onsite & Available for Review

SWPPP Document Type	Located Onsite & Available for Review?	
Registration Statement	☐ Yes	☒ NA
Notice of Coverage Letter	☐ Yes	☒ NA
Construction General Permit	☐ Yes	☒ NA
Pollution Prevention Plan	☒ Yes	☐ NA
Erosion & Sediment Control Plan (or agreement in lieu of)	☒ Yes	☐ NA
Stormwater Management Plan	☒ Yes	☐ NA

2.0 Authorized Non-Stormwater Discharges

Type of Authorized Non-Stormwater Discharge	Likely Present at Your Project Site?	
External buildings wash down	☐ Yes	☒ No
Uncontaminated foundation or footing drains	☐ Yes	☒ No
Uncontaminated excavation dewatering	☒ Yes	☐ No
Landscape irrigation	☒ Yes	☐ No
Others [describe]	☐ Yes	☐ 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
☐	Construction Entrance (Std. & Spec. 3.02)	Insert Date	Insert Date	Construction Activity Operator (See Cover Page of this SWPPP)
☒	Silt Fence (Std. & Spec. 3.05)	Insert Date	Insert Date	
☐	Culvert Inlet Protection (Std. & Spec. 3.08)	Insert Date	Insert Date	
☐	Outlet Protection (Std. & Spec. 3.18)	Insert Date	NA	
☒	Temporary Seeding (Std. & Spec. 3.31)	As required by 3.31	NA	
☐	Permanent Seeding (Std. & Spec. 3.32)	Insert Date	NA	
☒	Sodding (Std. & Spec. 3.33)	Insert Date	NA	
☒	Mulching (Std. & Spec. 3.35)	Insert Date	NA	
☐	Safety Fence (Std. & Spec 3.01)	Insert Date	Insert Date	

5.0 Potential Sources of Pollution & Pollution Prevention Practices

Pollutant-Generating Activity	Likely Present at your Project Site?	Pollutants: Sediment	Nutrients	Heavy Metals	pH (acids and bases)	Pesticides & Herbicides	Oil & Grease	Bacteria & Viruses	Trash, Debris, Solids	Other Toxic Chemicals	Pollution Prevention Practice	Responsible Party
Clearing, grading, excavating, and un-stabilized areas	☒ Yes ☐ No	X							X		(1)	Construction Activity Operator (See Cover Page of this SWPPP)
Paving operations	☒ Yes ☐ No	X					X		X		(2)	
Concrete washout and cement waste	☒ Yes ☐ No			X	X				X		(3)	
Structure construction, stucco, painting, and cleaning	☐ Yes ☒ No			X	X				X	X	(4)	
Dewatering operations	☒ Yes ☐ No	X	X						X		(5)	
Material delivery and storage	☒ Yes ☐ No	X	X	X	X		X		X	X	(6)	
Material use during building process	☒ Yes ☐ No		X	X	X		X		X	X	(7)	
Solid waste disposal	☒ Yes ☐ No								X	X	(8)	
Sanitary waste	☒ Yes ☐ No		X		X			X			(9)	
Landscaping operations	☒ Yes ☐ No	X	X			X			X	X	(10)	
Others [describe]	☐ Yes ☐ No	[X]	[X]	[X]	[X]	[X]	[X]	[X]	[X]	[X]	(11)	

Select all that apply	Stormwater Management Control	Estimated Installation Date	Responsible Party
☐	Infiltration (1 or 2)	Insert Date	Construction Activity Operator (See Cover Page of this SWPPP)
☐	Bioretention (1 or 2)	Insert Date	
☐	Others [describe]	Insert Date	
☐	Exempted	NA	NA

7.0 Spill Prevention & Response

Most spills can be cleaned up following manufacturer specifications. Absorbent/oil dry, sealable containers, plastic bags, and shovels/brooms are suggested minimum spill response items that should be available at this location.

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

1. 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.
2. Make Sure the spill area is safe to enter and that it does not pose an immediate threat to health or safety of any person.
3. Stop the spill source.
4. Call co-workers and supervisor for assistance and to make them aware of the spill and potential dangers.
5. If possible, stop spill from entering drains (use absorbent or other material as necessary).
6. Stop spill from spreading (use absorbent or other material)
7. If spilled material has entered a storm sewer; contact locality's storm water department.
8. Clean up spilled material according to manufacturer specifications, for liquid spills use absorbent materials and do not flush area with water.
9. Properly dispose of cleaning materials and used absorbent material according to manufacturer specifications.

Emergency Contacts:

Normal Working Hours

DEQ Northern Regional Office 703-583-3800

Nights, Holidays & Weekends

VA Dept. of Emergency Management 804-674-2400
24 Hour Reporting Service

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

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11/5/19
PROFESSIONAL ENGINEER

APPROVALS	DATE
	11.18.2019
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CONSTRUCTION MANAGEMENT SUPERVISOR	11/19/19
WATER, SEWER, STREETS BUREAU CHIEF	11/19/19
TRANSPORTATION DIRECTOR	Nov 19/2019
PROJECT MANAGER	

REVISIONS	DATE

S ARLINGTON RIDGE RD AT S LANG ST
DC13
INTERSECTION IMPROVEMENTS

STORMWATER POLLUTION PREVENTION PLAN

DESIGNED: L. DELACRUZ
DRAWN: L. DELACRUZ
CHECKED: P. RIGBY
MISS UTILITY TRANSMITTAL #: N/A

PLOTTED: NOVEMBER 20 2019

SCALE:

N/A

SHEET 10 OF 27

REVISED ON 05/23/2018

FILENAME: DC13-220-E_AND_S_NOTES_SWWP.DWG PATH: Q:\DATA\DC13\DESIGN\CAD\ACTIVE PLOTTED BY: LDELACRUZ

REVISED ON 05/23/2018

Line Table						
Line #	Start Sta.	End Sta.	Bearing	Distance	Start (Northing, Easting)	End (Northing, Easting)
L1	0+27.27	0+30.32	N 26° 58' 50" W	3.04'	(6995115.4295, 11890983.2028)	(6995118.1416, 11890981.8221)
L2	0+30.32	0+58.77	N 26° 58' 50" W	28.45'	(6995118.1416, 11890981.8221)	(6995143.4955, 11890968.9145)
L3	1+64.96	1+75.73	N 15° 42' 48" W	10.77'	(6995242.2427, 11890930.3215)	(6995252.6104, 11890927.4046)
L4	0+97.92	1+05.94	S 15° 51' 45" E	8.03'	(6995239.4337, 11890902.3835)	(6995231.7125, 11890904.5776)

Curve Table										
Curve #	Start Sta.	End Sta.	Radius	Chord Bearing	Chord Length	Delta (Δ)	Arc Length	Tangent	Start (Northing, Easting)	End (Northing, Easting)
C1	-0+02.55	0+10.30	528.23'	N 31° 02' 46" W	12.84'	1° 23' 36"	12.85'	6.42'	(6995089.6425, 11890998.1664)	(6995100.6474, 11890991.5420)
C2	0+10.30	0+27.27	528.23'	N 29° 25' 45" W	16.97'	1° 50' 28"	16.97'	8.49'	(6995100.6474, 11890991.5420)	(6995115.4295, 11890983.2028)
C3	0+58.77	1+64.96	540.00'	N 21° 20' 49" W	106.02'	11° 16' 02"	106.19'	53.27'	(6995143.4955, 11890968.9145)	(6995242.2427, 11890930.3215)
C4	-0+00.00	0+09.01	15.41'	S 53° 45' 33" E	8.88'	33° 31' 13"	9.01'	4.64'	(6995117.1376, 11890945.8805)	(6995111.8850, 11890953.0465)
C5	0+09.01	0+11.82	43.54'	S 30° 46' 26" E	2.81'	3° 41' 57"	2.81'	1.41'	(6995111.8850, 11890953.0465)	(6995109.4705, 11890954.4844)
C6	0+11.82	1+61.90	748.50'	S 34° 45' 14" E	149.82'	11° 29' 16"	150.08'	75.29'	(6995109.4705, 11890954.4844)	(6994986.3741, 11891039.8919)
C7	0+00.00	0+97.92	673.50'	S 11° 41' 52" E	97.83'	8° 19' 47"	97.91'	49.04'	(6995335.2287, 11890882.5492)	(6995239.4337, 11890902.3835)
C8	1+05.94	1+45.87	665.24'	S 18° 12' 36" E	39.92'	3° 26' 18"	39.92'	19.97'	(6995231.7125, 11890904.5776)	(6995193.7956, 11890917.0513)
C9	1+53.96	1+89.10	26.50'	S 17° 16' 32" W	32.62'	75° 58' 27"	35.14'	20.69'	(6995186.2249, 11890919.9138)	(6995155.0758, 11890910.2266)
C10	1+89.10	2+51.70	58.50'	S 24° 36' 27" W	59.65'	61° 18' 36"	62.60'	34.67'	(6995155.0758, 11890910.2266)	(6995100.8391, 11890885.3864)

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	11/19/19
WATER, SEWER, STREETS BUREAU CHIEF	
	11/19/19
TRANSPORTATION DIRECTOR	
	Nov 19 2019
PROJECT MANAGER	

REVISIONS	DATE

S ARLINGTON RIDGE RD AT S LANG ST
DC13
INTERSECTION IMPROVEMENTS

GEOMETRIC CONTROL PLAN

DESIGNED: L. DELACRUZ
DRAWN: L. DELACRUZ
CHECKED: P. RIGBY
MISS UTILITY TRANSMITTAL #: N/A

PLOTTED: NOVEMBER 20 2019

SCALE:

25 0 25
HORIZ: SCALE: 1" = 25'

SHEET 11 OF 27

FILENAME: DC13-216-GEOMETRIC_CONTROL_PLAN.DWG PATH: Q:\DATA\DC13\DESIGN\CAD\ACTIVE PLOTTED BY: LDELACRUZ

REVISED ON 05/23/2018

CONSTRUCTION NOTES

1. PROP CURB AND GUTTER (C-2) PER ARL STD (R-2.0)
2. PROP SIDEWALK PER ARL STD (R-2.0)
2A. PROP MODIFIED RAMP (CG-12A) PER 2016 VDOT ROAD & BRIDGE STANDARDS (203.06) SEE CURB RAMP DETAIL SHEET #7
2B. PROP MODIFIED RAMP (CG-12B) PER 2016 VDOT ROAD & BRIDGE STDS (203.07) SEE CURB RAMP DETAIL SHEET #7
3. PROP ASPHALT - FULL DEPTH REPLACEMENT PER ARL CONSTR STD R-1.3
3A. PROP ASPHALT - MILL AND OVERLAY PER ARL CONSTR STD R-1.3
4. ADJUST EXISTING ELECTRIC MANHOLE TO NEW GRADE
5. PROP SOD AND 4" TOP SOIL PER ARL CONST STD & SPEC, SECTION 329200 SEEDING AND SODDING
6. ADJUST EXISTING SANITARY TOP TO PROPOSED GRADE ELEVATION 68.15, PER ARL STD S-2.5
7. PROTECT TREE DURING CONSTRUCTION OF PROPOSED WORK PER ARL CONSTR STD & SPEC 311300
8. MATCH EX T.O.C. OR SIDEWALK GRADE AND WIDTH
9. CONCRETE RAISED MEDIAN MS-1A W/CG-3 MOUNTABLE CURB (STD. 202.03) AND DETECTABLE WARNING CG-12 TYPE M2 (STD. 203.09) PER VDOT 2016 ROAD & BRIDGE STDS.
10. BUS STOP ADA BOARDING PAD
11. WALL/FENCE TO BE RESTORED IF DISTURBED
12. EXISTING RAMP TO REMAING
13. PROP TEMPORARY EASEMENT
14. PROP 6' BENCH PER DETAIL SHOWN ON SHEET 21-A OR EQUIVALENT
15. PROP BIKE RACKS PER DETAIL SHOWN ON SHEET 21-A OR EQUIVALENT

(#) CURB RETURN NUMBER. SEE CURB RETURN PROFILE SHEET FOR DETAILS

PERMIT REQUIREMENTS

THE FOLLOWING PERMITS WILL BE REQUIRED FOR THIS PROJECT.

1. ARLINGTON COUNTY LAND DISTURBING ACTIVITY (LDA) PERMIT
2. ARLINGTON COUNTY PUBLIC RIGHT-OF-WAY (PROW) PERMIT
3. ARLINGTON COUNTY TRANSPORTATION RIGHT-OF-WAY (TROW) PERMIT
4. NO VDOT PERMITS ARE REQUIRED.
5. NO WMATA PERMITS ARE REQUIRED.

PV - CONSTRUCTION CL - S LANG ST

PV - CONSTRUCTION CL - S ARLINGTON RIDGE RD

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WATER, SEWER, STREETS BUREAU CHIEF	11/19/19
TRANSPORTATION DIRECTOR	11/19/19
PROJECT MANAGER	Nov 19/2019

REVISIONS	DATE

S ARLINGTON RIDGE RD AT S LANG ST
DC13
INTERSECTION IMPROVEMENTS

PLAN & PROFILE

DESIGNED: L. DELACRUZ
DRAWN: L. DELACRUZ
CHECKED: P. RIGBY
MISS UTILITY TRANSMITTAL #: N/A

PLOTTED: NOVEMBER 20 2019

SCALE:

25 0 25
HORIZ: SCALE: 1" = 25'

SHEET 12 OF 27

FILENAME: DC13-230-PLAN_PROFILE.DWG PATH: Q:\DATA\DC13\DESIGN\CAD\ACTIVE PLOTTED BY: LDELACRUZ

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CR #1- Profile

CR #2- Profile

CR #3- Profile

FILENAME: DC13-232-CURB_RETURN_PROFILES.DWG PATH: Q:\DATA\DC13\DESIGN\CAD\ACTIVE PLOTTED BY: LDELACRUZ

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WATER, SEWER, STREETS BUREAU CHIEF	
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TRANSPORTATION DIRECTOR	
	Nov 19/2019
PROJECT MANAGER	

REVISIONS	DATE

S ARLINGTON RIDGE RD AT S LANG ST
DC13
INTERSECTION IMPROVEMENTS

CURB RETURN PROFILES

DESIGNED: L. DELACRUZ
DRAWN: L. DELACRUZ
CHECKED: P. RIGBY
MISS UTILITY TRANSMITTAL #: N/A

PLOTTED: NOVEMBER 20 2019

SCALE:

25 0 25
HORIZ. SCALE: 1" = 25'

REVISED ON 05/23/2018

CURB RAMP CG-12A
SB S Arlington Ridge Rd/EB S Lang St

CURB RAMP CG-12B
2600 Block S Arlington Ridge Rd

CURB RAMP CG-12B
SB S Arlington Ridge Rd/WB S Lang St

CUT-THROUGH MEDIAN
2600 Block S Arlington Ridge Rd

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CONSTRUCTION MANAGEMENT SUPERVISOR	11/19/19
WATER, SEWER, STREETS BUREAU CHIEF	11/19/19
TRANSPORTATION DIRECTOR	Nov 19 2019

REVISIONS	DATE

S ARLINGTON RIDGE RD AT S LANG ST
DC13
INTERSECTION IMPROVEMENTS

RAMP DETAILS

DESIGNED: L. DELACRUZ
DRAWN: L. DELACRUZ
CHECKED: P. RIGBY
MISS UTILITY TRANSMITTAL #: N/A

PLOTTED: NOVEMBER 20 2019

SCALE:

5 0 5
HORIZ: SCALE: 1" = 5'

FILENAME: DC13-208-RAMP_DETAILS.DWG PATH: Q:\DATA\DC13\DESIGN\CAD\ACTIVE PLOTTED BY: LDELACRUZ

REVISED ON 05/23/2018

SIDEWALK DETAIL

BUS STOP SOUTHBOUND ON S ARLINGTON RIDGE RD

BUS STOP NORTHBOUND ON S ARLINGTON RIDGE RD

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WATER, SEWER, STREETS BUREAU CHIEF	11/19/19
TRANSPORTATION DIRECTOR	11/19/19
PROJECT MANAGER	Nov 19 2019

REVISIONS	DATE

S ARLINGTON RIDGE RD AT S LANG ST
DC13
INTERSECTION IMPROVEMENTS

SIDEWALK, BUS STOP PAD DETAILS

DESIGNED: L. DELACRUZ
DRAWN: L. DELACRUZ
CHECKED: P. RIGBY
MISS UTILITY TRANSMITTAL #: N/A

PLOTTED: NOVEMBER 20 2019

SCALE:

5 0 5
HORIZ: SCALE: 1" = 5'

FILENAME: DC13-208-RAMP_DETAILS.DWG PATH: Q:\DATA\DC13\DESIGN\CAD\ACTIVE PLOTTED BY: LDELACRUZ

REVISED ON 05/23/2018

CROSS SECTIONS - CR #1

1+00.00

0+75.00

END CONSTRUCTION

1+75.73

0+50.00

1+75.00

0+25.00

1+50.00

BEGIN CONSTRUCTION

0+00.00

1+25.00

NOTE:
CROSS SECTIONS ARE BASED ON ALIGNMENT OF EDGE OF PAVEMENT

FILENAME: DC13-234-CROSS_SECTIONS.DWG PATH: Q:\DATA\DC13\DESIGN\CAD\ACTIVE PLOTTED BY: LDELACRUZ

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TRANSPORTATION DIRECTOR	11/19/19
PROJECT MANAGER	Nov 19 2019

REVISIONS	DATE

S ARLINGTON RIDGE RD AT S LANG ST
DC13
INTERSECTION IMPROVEMENTS

CROSS SECTIONS - CR1

DESIGNED: L. DELACRUZ
DRAWN: L. DELACRUZ
CHECKED: P. RIGBY
MISS UTILITY TRANSMITTAL #: N/A

PLOTTED: NOVEMBER 20 2019

SCALE:
Hor.: 1"=5'
Vert.: 1"=5'

5 0 5
GRAPHIC SCALE

CROSS SECTIONS - CR #2

1+00.00

0+75.00

0+50.00

END CONSTRUCTION

1+61.90

0+25.00

1+50.00

BEGIN CONSTRUCTION

0+00.00

1+25.00

NOTE:
CROSS SECTIONS ARE BASED ON ALIGNMENT OF EDGE OF PAVEMENT

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S ARLINGTON RIDGE RD AT S LANG ST
DC13
INTERSECTION IMPROVEMENTS

CROSS SECTIONS - CR2

DESIGNED: L. DELACRUZ
DRAWN: L. DELACRUZ
CHECKED: P. RIGBY
MISS UTILITY TRANSMITTAL #: N/A

PLOTTED: NOVEMBER 20 2019

SCALE:
Hor.: 1"=5'
Vert.: 1"=5'

5 0 5
GRAPHIC SCALE

REVISED ON 05/23/2018
FILENAME: DC13-234-CROSS_SECTIONS.DWG PATH: Q:\DATA\DC13\DESIGN\CAD\ACTIVE PLOTTED BY: LDELACRUZ

REVISED ON 05/23/2018

CROSS SECTIONS - CR #3

1+00.00

2+25.00

0+75.00

2+00.00

0+50.00

1+75.00

0+25.00

1+50.00

BEGIN CONSTRUCTION

0+00.00

1+25.00

NOTE:
CROSS SECTIONS ARE BASED ON ALIGNMENT OF EDGE OF PAVEMENT

END CONSTRUCTION

2+51.69

2+50.00

FILENAME: DC13-234-CROSS_SECTIONS.DWG PATH: Q:\DATA\DC13\DESIGN\CAD\ACTIVE PLOTTED BY: LDELACRUZ

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TRANSPORTATION DIRECTOR	Nov 19 2019
PROJECT MANAGER	

REVISIONS	DATE

S ARLINGTON RIDGE RD AT S LANG ST
DC13
INTERSECTION IMPROVEMENTS

CROSS SECTIONS - CR3

DESIGNED: L. DELACRUZ
DRAWN: L. DELACRUZ
CHECKED: P. RIGBY
MISS UTILITY TRANSMITTAL #: N/A

PLOTTED: NOVEMBER 20 2019

SCALE:
Hor.: 1"=5'
Vert.: 1"=5'

5 0 5
GRAPHIC SCALE

DEQ Virginia Runoff Reduction Method Re-Development Compliance Spreadsheet - Version 3.0

○ 2011 BMP Standards and Specifications | ◉ 2013 Draft BMP Standards and Specifications

Project Name:	S Arlington Ridge Rd at S Lang St
Date:	08/29/2019
Linear Development Project?	Yes

CLEAR ALL

data input cells
constant values
calculation cells
final results

Site Information

Post-Development Project (Treatment Volume and Loads)

Enter Total Disturbed Area *(acres)* → 0.2727

Maximum reduction required:	*20%*
The site's net increase in impervious cover (acres) is:	*0.0000*
Post-Development TP Load Reduction for Site (lb/yr):	*-0.0548*

Check:
BMP Design Specifications List: 2013 Draft Stds & Specs
Linear project? Yes
Land cover areas entered correctly? ✓
Total disturbed area entered? ✓

TP LOAD REDUCTION NOT REQUIRED

Pre-ReDevelopment Land Cover (acres)

	A Soils	B Soils	C Soils	D Soils	Totals
Forest/Open Space (acres) -- undisturbed forest/open space					0.0000
Managed Turf (acres) -- disturbed, graded for yards or other turf to be mowed/managed		0.0745			0.0745
Impervious Cover (acres)		0.1981			0.1981
					0.2727

Post-Development Land Cover (acres)

	A Soils	B Soils	C Soils	D Soils	Totals
Forest/Open Space (acres) -- undisturbed, protected forest/open space or reforested land					0.0000
Managed Turf (acres) -- disturbed, graded for yards or other turf to be mowed/managed		0.1608			0.1608
Impervious Cover (acres)		0.1119			0.1119
Area Check	OK.	OK.	OK.	OK.	0.2727

Constants

Annual Rainfall (inches)	43
Target Rainfall Event (inches)	1.00
Total Phosphorus (TP) EMC (mg/L)	0.26
Total Nitrogen (TN) EMC (mg/L)	1.86
Target TP Load (lb/acre/yr)	0.41
Pj (unitless correction factor)	0.90

Runoff Coefficients (Rv)

	A Soils	B Soils	C Soils	D Soils
Forest/Open Space	0.02	0.03	0.04	0.05
Managed Turf	0.15	0.20	0.22	0.25
Impervious Cover	0.95	0.95	0.95	0.95

LAND COVER SUMMARY -- PRE-REDEVELOPMENT

Land Cover Summary-Pre

Pre-ReDevelopment	Listed	Adjusted[1]
Forest/Open Space Cover (acres)	0.0000	0.0000
Weighted Rv(forest)	0.0000	0.0000
% Forest	0%	0%
Managed Turf Cover (acres)	0.0745	0.0745
Weighted Rv(turf)	0.2000	0.2000
% Managed Turf	27%	27%
Impervious Cover (acres)	0.1981	0.1981
Rv(impervious)	0.9500	0.9500
% Impervious	73%	73%
Total Site Area (acres)	**0.2727**	**0.2727**
Site Rv	**0.7450**	**0.7450**

Treatment Volume and Nutrient Load

Pre-ReDevelopment Treatment Volume (acre-ft)	0.0169	0.0169
Pre-ReDevelopment Treatment Volume (cubic feet)	737.4018	737.4018
Pre-ReDevelopment TP Load (lb/yr)	**0.4633**	**0.4633**
Pre-ReDevelopment TP Load per acre (lb/acre/yr)	1.7000	1.7000
Baseline TP Load (lb/yr) (0.41 lbs/acre/yr applied to pre-redevelopment area excluding pervious land proposed for new impervious cover)		*0.1118*

[1] *Adjusted Land Cover Summary:*
Pre ReDevelopment land cover minus pervious land cover (forest/open space or managed turf) acreage proposed for new impervious cover.

Adjusted total acreage is consistent with Post-ReDevelopment acreage (minus acreage of new impervious cover).

Column I shows load reduction requirement for new impervious cover (based on new development load limit, 0.41 lbs/acre/year).

LAND COVER SUMMARY -- POST DEVELOPMENT

Land Cover Summary-Post (Final)

Post ReDev. & New Impervious	
Forest/Open Space Cover (acres)	0.0000
Weighted Rv(forest)	0.0000
% Forest	0%
Managed Turf Cover (acres)	0.1608
Weighted Rv (turf)	0.2000
% Managed Turf	59%
Impervious Cover (acres)	0.1119
Rv(impervious)	0.9500
% Impervious	41%
Final Site Area (acres)	**0.2727**
Final Post Dev Site Rv	**0.5078**

Land Cover Summary-Post

Post-ReDevelopment	
Forest/Open Space Cover (acres)	0.0000
Weighted Rv(forest)	0.0000
% Forest	0%
Managed Turf Cover (acres)	0.1608
Weighted Rv (turf)	0.2000
% Managed Turf	59%
ReDev. Impervious Cover (acres)	0.1119
Rv(impervious)	0.9500
% Impervious	41%
Total ReDev. Site Area (acres)	**0.2727**
ReDev Site Rv	**0.5078**

Land Cover Summary-Post

Post-Development New Impervious	
New Impervious Cover (acres)	0.0000
Rv(impervious)	--

Treatment Volume and Nutrient Load

Final Post-Development Treatment Volume (acre-ft)	0.0115
Final Post-Development Treatment Volume (cubic feet)	502.6280
Final Post-Development TP Load (lb/yr)	**0.3158**
Final Post-Development TP Load per acre (lb/acre/yr)	1.1600

Post-ReDevelopment Treatment Volume (acre-ft)	0.0115
Post-ReDevelopment Treatment Volume (cubic feet)	502.6280
Post-ReDevelopment Load (TP) (lb/yr)*	**0.3158**
Post-ReDevelopment TP Load per acre (lb/acre/yr)	1.1600
Max. Reduction Required (Below Pre-ReDevelopment Load)	**20%**
TP Load Reduction Required for Redeveloped Area (lb/yr)	**-0.0548**

Post-Development Treatment Volume (acre-ft)	--
Post-Development Treatment Volume (cubic feet)	--
Post-Development TP Load (lb/yr)	--
TP Load Reduction Required for New Impervious Area (lb/yr)	**0**

Post-Development Requirement for Site Area

TP Load Reduction Required (lb/yr)	-0.0548	**	*TP LOAD REDUCTION NOT REQUIRED*
Linear Project TP Load Reduction Required (lb/yr):	-0.0548	**	*TP LOAD REDUCTION NOT REQUIRED*

Nitrogen Loads (Informational Purposes Only)

Pre-ReDevelopment TN Load (lb/yr)	3.3144
Final Post-Development TN Load (Post-ReDevelopment & New Impervious) (lb/yr)	2.2592

STORMWATER NARRATIVE

The Runoff Reduction Spreadsheet information on this plan is for data tracking purposes to document the area of land disturbance and to characterize pre- and post-development land use conditions.

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.

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TRANSPORTATION DIRECTOR	11/19/19
PROJECT MANAGER	Nov 19 2019

REVISIONS	DATE

S ARLINGTON RIDGE RD AT S LANG ST
DC13
INTERSECTION IMPROVEMENTS

VRRM SPREADSHEET

DESIGNED: L. DELACRUZ
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CHECKED: P. RIGBY
MISS UTILITY TRANSMITTAL #: N/A

PLOTTED: NOVEMBER 20 2019

SCALE:

NTS

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REVISED ON 05/23/2018

LEGEND

DECIDUOUS TREE

ORNAMENTAL TREE

NOTE:

1. REFER TO ACG STANDARDS - DES (SECTION 329200 SEEDING AND SODDING) AND VESCH 3.32 FOR PERMANENT SEEDING AND VESCH 3.33 FOR SOD.
2. FOR TREE REMOVAL SEE E&S PLAN (SHEET 6).

PLANT SCHEDULE (SHOWN FOR INFORMATION ONLY TO BE INSTALLED BY OTHERS)

QTY	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	CONDITION	SPACING	NOTES
Trees							
9	AC	*Amelanchier Canadensis*	Shadblow Serviceberry	8' - 10' ht.	B&B	As Shown	Tree Farm
3	CO	*Celtis Occidentalis*	Hackberry	2" - 2 1/2" cal.	B&B	As Shown	
5	QR	*Quercus Rubra*	Nor. Red Oak	1 3/4" - 2" cal.	B&B	As Shown	

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TRANSPORTATION DIRECTOR	11/19/19
PROJECT MANAGER	Nov 19/2019

REVISIONS	DATE

S ARLINGTON RIDGE RD AT S LANG ST
DC13
INTERSECTION IMPROVEMENTS

LANDSCAPE PLAN

DESIGNED: L. DELACRUZ
DRAWN: L. DELACRUZ
CHECKED: P. RIGBY
MISS UTILITY TRANSMITTAL #: N/A

PLOTTED: NOVEMBER 20 2019

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0 25 50
GRAPHIC SCALE

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REVISED ON 05/23/2018

NOTES

1. A PERMIT IS REQUIRED WHEN TREES ARE PLANTED IN PUBLIC RIGHT-OF-WAY OR IN A PUBLIC EASEMENT. THE DEPARTMENT OF ENVIRONMENTAL SERVICES SHALL ISSUE THE PERMIT ACCORDING TO THE PROVISIONS OF THE CURRENT ARLINGTON COUNTY ADMINISTRATIVE REGULATION 4.3.

2. TREE SPECIES SHALL BE SELECTED FROM THE "ARLINGTON COUNTY STREET TREE LIST" OR PER SECTOR PLAN REQUIREMENTS.

3. TREES SHALL BE NURSERY GROWN SPECIMENS THAT MEET THE LATEST EDITION OF THE AMERICAN STANDARDS FOR NURSERY STOCK (ANSI Z60). BALLED AND BURLAPPED TREES SHALL BE SECURELY HELD IN PLACE BY UNTREATED BURLAP AND STOUT ROPE (NYLON ROPE IS NOT ACCEPTABLE). LOOSE, BROKEN OR MANUFACTURED BALLS ARE UNACCEPTABLE.

4. CALL MISS UTILITY AT (800) 552-7001 FOR UTILITY LOCATIONS PRIOR TO EXCAVATION.

5. AT TIME OF PLANTING PRUNE ONLY CROSSING LIMBS, BROKEN OR DEAD BRANCHES, AND ANY BRANCHES THAT POSE A HAZARD TO PEDESTRIANS. DO NOT PRUNE INTO OLD WOOD ON EVERGREENS.

6. TREE PIT AND TREE STRIP PLANTING AREA DIMENSIONS:
   (A) 5' X 12' OR LARGER IS STANDARD
   (B) 6' X 15' MINIMUM IS ALLOWED PER SITE CONDITIONS AND COUNTY URBAN FORESTER'S APPROVAL.

7. SPACE TREES 25'-30' APART OR PER SECTOR PLAN REQUIREMENTS OR SITE CONDITIONS.

8. SITE CHARACTERISTICS, SUCH AS OVERHEAD POWER LINES, EXISTING VEGETATION, AND INFRASTRUCTURE ITEMS SUCH AS CURBS, SIDEWALKS AND UTILITIES SHALL BE CONSIDERED. TREES THAT GROW TALLER THAN 25 FEET SHOULD NOT BE PLANTED DIRECTLY UNDER POWER LINES. WHEN POSSIBLE THE TREE LEADER SHALL BE OFFSET FROM POWER LINES.

9. BACKFILL SOIL MIXTURE SHALL BE 3/4 EXISTING SOIL CLEANED OF DEBRIS (GRAVEL, ROCKS, STICKS, TRASH, ETC.) AND MIXED WITH 1/4 ORGANIC MATERIAL(COMPOSTED BARK, LEAF MOLD, OR OTHER PLANT DEBRIS PROCESSED TO A POINT OF DECAY AND APPROVED BY THE COUNTY URBAN FORESTER. PEAT MOSS MAY NOT BE USED.

10. IF THE QUANTITY OF ACCEPTABLE EXISTING SOIL IS INSUFFICIENT FOR THE PLANTING REQUIREMENTS, THE CONTRACTOR MAY USE TOPSOIL. SOIL TEST REPORT RESULTS FOR THE TOPSOIL WILL BE MADE AVAILABLE TO THE COUNTY URBAN FORESTER UPON REQUEST. CONTRACTOR SHALL SUBMIT TOPSOIL FOR APPROVAL TO COUNTY URBAN FORESTER THAT MEETS THE FOLLOWING SPECIFICATIONS:
   (A.) TOPSOIL CONSISTS OF A SANDY LOAM WITH UNIFORM COMPOSITION AND IS FREE OF STONES, LUMPS, PLANTS, ROOTS, AND OTHER DEBRIS OVER 1/2" IN LENGTH.
   (B.) TOPSOIL HAS A PH RANGE OF 5.5 TO 6.5 AND A MINIMUM CONTENT OF 1.0% ORGANIC MATTER
   (C.) TOPSOIL DOES NOT CONTAIN TOXIC SUBSTANCES HARMFUL TO PLANT GROWTH. SOLUBLE SALT LEVEL SHALL NOT EXCEED 3 MILLIOHMS PER CENTIMETER.

11. TREES PLANTED WITHOUT THE TRUNK FLARE VISIBLE WILL BE REJECTED.

12. TREES MAY ONLY BE STAKED IF REQUIRED BY THE COUNTY URBAN FORESTER. REFER TO ARLINGTON COUNTY STANDARD STAKING DETAILS.

13. MULCH SHALL BE CLEAN, SCREENED, DOUBLE-HAMMERED HARDWOOD BARK MULCH, UNIFORM IN SIZE AND FREE OF STONES, CLODS, NON-ORGANIC DEBRIS AND OTHER FOREIGN MATERIAL.

14. ALL PLANTS SHALL BE WATERED TWICE: ONCE AT INSTALLATION AND AGAIN WITHIN 48-HOURS OF INSTALLATION. EACH WATERING WILL CONSIST OF 20 GALLONS PER TREE.

15. CONTRACTOR SHALL LEGALLY REMOVE EXCESS SOIL & DEBRIS FROM SITE.

GENERAL NOTES FOR STREET TREE PLANTINGS

FOR TREES PLANTED IN RIGHT-OF-WAY
329300.5 (2016) (02930.5)

ARLINGTON VIRGINIA DPR

THIS DETAIL SUPERSEDES ALL OTHER TREE STRIP PLANTING DETAILS IN ARLINGTON COUNTY.

NOTES

1. REFER TO DETAIL 329300.4B FOR ADDITIONAL CROSS SECTION AND PLAN OF TREE PLANTING STRIP DETAIL.

2. REFER TO DETAIL 329300.5 FOR GENERAL STREET TREE PLANTING NOTES.

TREE PLANTING STRIP (1 OF 2)

1/2" - 1'-0"

FOR TREE PLANTING STRIPS IN RIGHT-OF-WAY
329300.4A (2016) (02939.4A)

ARLINGTON VIRGINIA DPR

NOTES

1. REFER TO DETAIL 329300.4A FOR TREE STRIP PLANTING AREA INFORMATION.

2. REFER TO DETAIL 329300.5 FOR GENERAL TREE PLANTING NOTES.

TREE PLANTING STRIP (2 OF 2)

NOT TO SCALE

FOR TREE PLANTING STRIPS IN RIGHT-OF-WAY
329300.4B (2018)

ARLINGTON VIRGINIA DPR

NOTES

1. AT PLANTING PRUNE ONLY CROSSING LIMBS, BROKEN OR DEAD BRANCHES, AND ANY BRANCHES THAT POSE A HAZARD TO PEDESTRIANS PER ANSI STANDARD A300. DO NOT PRUNE INTO OLD WOOD ON EVERGREENS.

2. CONTRACTOR SHALL MAXIMIZE EXCAVATED AREA FOR TREE PIT WITHOUT ADVERSELY IMPACTING ADJACENT SITE FEATURES.

3. UNLESS OTHERWISE DIRECTED BY ARLINGTON COUNTY URBAN FORESTER, BACKFILL SOIL MIXTURE WILL BE 3/4 EXISTING SOIL CLEANED OF DEBRIS (GRAVEL, ROCKS, STICKS, TRASH, ETC.) AND MIXED WITH 1/4 ORGANIC MATERIAL (COMPOSTED BARK, LEAF MOLD, OR OTHER PLANT DEBRIS PROCESSED TO A POINT OF DECAY AND APPROVED BY THE URBAN FORESTER; PEAT MOSS SHALL NOT BE USED).

4. CONTRACTOR SHALL LEGALLY REMOVE EXCESS SOIL & DEBRIS FROM SITE.

5. TREES PLANTED WITHOUT THE TRUNK FLARE VISIBLE WILL BE REJECTED.

6. TREES MAY ONLY BE STAKED IF REQUIRED BY THE COUNTY URBAN FORESTER. REFER TO STAKING DETAILS.

TREE PLANTING DETAIL

NOT TO SCALE

FOR OPEN PLANTING AREAS FREE OF PAVING OR GRATES
329300.1 (2019)

ARLINGTON VIRGINIA DPR

NOTES

1. AT PLANTING PRUNE ONLY BROKEN OR DEAD BRANCHES PER ANSI 300 STANDARD.

2. PLANTING PIT/TRENCH SHALL BE DUG DEEP ENOUGH TO ALLOW AT LEAST 1/8TH OF ROOT BALL TO SET ABOVE EXISTING GRADE.

3. SET PLANTS IN ERECT, STABLE, AND UNIFORM POSITIONS IN THE CENTER OF THE PLANTING PIT. ORIENT BEST FACE OF PLANT TO BE THE MOST VISIBLE.

4. UNLESS OTHERWISE DIRECTED BY COUNTY URBAN FORESTER, BACKFILL SOIL MIXTURE WILL BE 3/4 EXISTING SOIL CLEANED OF DEBRIS (GRAVEL, ROCKS, STICKS, TRASH, ETC.) AND MIXED WITH 1/4 ORGANIC MATERIAL(COMPOSTED BARK, LEAF MOLD, OR OTHER PLANT DEBRIS PROCESSED TO A POINT OF DECAY AND APPROVED BY THE COUNTY URBAN FORESTER. PEAT MOSS MAY NOT BE USED).

5. CONTRACTOR SHALL REMOVE EXCESS SOIL & DEBRIS FROM SITE.

6. DO NOT PLACE MULCH IN CONTACT WITH STEM OF SHRUBS

THIS DETAIL SUPERSEDES ALL OTHER SHRUB PLANTING DETAILS IN ARLINGTON COUNTY.

ALL PLANTS MUST BE WATERED TWICE: ONCE AT INSTALLATION AND AGAIN WITHIN 48-HOURS OF INSTALLATION, PER THE SPECIFICATIONS.

SHRUB PLANTING

NOT TO SCALE

ELEVATION
329300.8 (2019)

ARLINGTON VIRGINIA DPR

TREE PLANTING NOTES

1. CONTRACTOR TO CALL THE URBAN FORESTER AT 703-228-1863, 72 HOURS BEFORE PLANTING, TO SCHEDULE INSPECTION OF THE TREES TO BE PLANTED. WARRANTY FOR 1 YEAR AFTER PLANTING SHALL BE THE CONTRACTOR'S RESPONSIBILITY. THE URBAN FORESTER AND DPR IS RESPONSIBLE FOR INSPECTION.
2. NEWLY PLANTED TREES SHALL BE WATERED FOR TWO YEARS BY A SEPARATED CONTRACT.
3. CONTRACTOR TO PREPARE TREE PLANTING STRIPS FOR THE REPLACEMENT TREES ACCORDING TO ARLINGTON COUNTY DPR DESIGN STANDARD DETAIL 3293000.4A, 329300.4B.
4. CONTRACTOR TO PLANT THE TREES ACCORDING TO ARLINGTON COUNTY DPR DESIGN STANDARD DETAIL 329300.1 (ON FLAT LAND) OR 329300.2 (ON SLOPES)
5. NO STAKES SHALL BE USED TO STABILIZE TREES, UNLESS DIRECTED BY THE ARLINGTON COUNTY URBAN FORESTER.

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	11/19/19
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	11/19/19
TRANSPORTATION DIRECTOR	
	Nov 19 2019
PROJECT MANAGER	

REVISIONS	DATE

S ARLINGTON RIDGE RD AT S LANG ST
DC13
INTERSECTION IMPROVEMENTS

LANDSCAPE NOTES AND DETAILS

DESIGNED: L. DELACRUZ
DRAWN: L. DELACRUZ
CHECKED: P. RIGBY
MISS UTILITY TRANSMITTAL #: N/A

PLOTTED: NOVEMBER 20 2019

SCALE:

AS SHOWN

REVISED ON 05/23/2018

MATERIALS:
BENCH LEGS: CAST DUCTILE IRON
WOOD SLATS: IPE(BETHABARA)/TABEBUIA
SMALL FASTENERS (CARRIAGE BOLTS, NUTS & WASHERS): STAINLESS STEEL

COLOR:
CI & STEEL: GRAY ALUMINUM RAL 9007

BENCHES OF MORE THAN 6' IN LENGTH HAVE 3 LEGS

KENNETH LYNCH & SONS
114 WILLENBROCK ROAD OXFORD, CT 06478
PHONE 203–264–2831 FAX 203–264–2833

6733A	1964 FLUSHING MEADOWS CORONA PARK BENCH WITH ARMS	
Scale: FAX	Date 5/4/11m	Drawn S.L.A.
WITH ARMS		6' LONG
MAT: SEE NOTES		#6733A–6–FX

BENCH 6' DETAIL

BIKE HITCH
Submittal Sheet

CAPACITY 2 Bikes

MATERIALS
- ☐ **Standard**
  Centerbeam: 2" schedule 40 pipe (2.375" OD)
  Ring: 1.5" OD 11 gauge tube
- ☐ **Lightweight**
  *Powder coat or galvanized only, Surface mount only
  Centerbeam: 2" schedule 10 pipe (2.375" OD)
  Ring: 1.5" OD 11 gauge tube

FINISHES
- ☐ **Galvanized**
  An after fabrication hot dipped galvanized finish is our standard option.
- ☐ **Powder Coat**
  Our powder coat finish assures a high level of adhesion and durability by following these steps:
  1. Sandblast
  2. Epoxy primer electrostatically applied
  3. Final thick TGIC polyester powder coat
- ☐ **PVC Dip** (plastisol)
  Other colors available by special order (minimum orders apply)
- ☐ **Stainless**
  Stainless Steel: 304 grade stainless steel material finished in either a high polished shine or a satin finish.

MOUNT OPTIONS
- ☐ **In-ground**
  In ground mount is embedded into concrete base. Specify in ground mount for this option.
- ☐ **Surface**
  Foot Mount has a 5"x6"x.25" foot with four anchors per foot. Specify foot mount for this option.

DERO
a PLAYCORE Company
www.dero.com | 1-888-337-6729

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BIKE RACK DETAIL

ANGLED

Minimum Bike Rack Clear Zone: free of any obstruction, and outside pedestrian or vehicle pathways.

SIDE-BY-SIDE

END-TO-END

BIKE RACK LAYOUT

ARLINGTON VIRGINIA
ARLINGTON COUNTY, VIRGINIA
DEPARTMENT OF ENVIRONMENTAL SERVICES

REVISION & DATE

DRAWING NO.
R-8.1

BIKE RACK LAYOUT

ARLINGTON
VIRGINIA

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TRANSPORTATION DIRECTOR	11/19/19
PROJECT MANAGER	Nov 19 2019

REVISIONS	DATE

S ARLINGTON RIDGE RD AT S LANG ST
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INTERSECTION IMPROVEMENTS

BENCH AND BIKE RACK DETAIL

DESIGNED: L. DELACRUZ
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CHECKED: P. RIGBY
MISS UTILITY TRANSMITTAL #: N/A

PLOTTED: NOVEMBER 20 2019

SCALE:

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SHEET 21-A OF 27

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REVISED ON 05/23/2018

NOTE:

× × × × × × × × × × = ERADICATION OF MARKING

STANDARD PAVEMENT MARKING LEGEND:

Ⓐ TYPE B CLASS 1.....WHITE 4" WIDTH	PARKING LANES, EDGE LINES, LANE LINES
Ⓑ TYPE B CLASS 1.....WHITE 4" WIDTH, 10' LONG, 30' SPACING	DASHED LANE LINES
Ⓒ TYPE B CLASS 1.....WHITE 4" WIDTH, 2' LONG, 10' SPACING	LANE TRANSITIONS, TURN LANE SKIPS
Ⓓ TYPE B CLASS 1.....WHITE 18" WIDTH	STOP BARS
Ⓔ TYPE B CLASS 1.....WHITE 24" WIDTH	CONTINENTAL CROSS WALKS
Ⓕ TYPE B CLASS 1.....WHITE 6" WIDTH	TURN LANES,TRANSVERSE CROSSWALKS, BIKE LANES
Ⓖ TYPE B CLASS 1.....YELLOW 4" WIDTH, 10' LONG, 30' SPACING	DIVIDED TRAFFIC, TWO WAY TURN LANES
Ⓗ TYPE B CLASS 1.....YELLOW 4" WIDTH	EDGE LINES
Ⓘ TYPE B CLASS 1.....YELLOW 4" WIDTH, DOUBLE LINE, 4" SPACING	CENTERLINES
Ⓙ TYPE B CLASS 1.....WHITE 6" WIDTH, 10' SPACING @45 DEGREE	HATCH LINES, SAFETY ZONES
Ⓚ TYPE B CLASS 1.....WHITE SINGLE ARROW	TURN LANES
Ⓛ TYPE B CLASS 1.....WHITE COMBINATION ARROW	TURN LANES
Ⓜ TYPE B CLASS 1.....WHITE 8' LETTERS	PAVEMENT LETTERS (STOP, YIELD, BUS, ONLY etc.)
Ⓝ TYPE B CLASS 1.....WHITE 6" WIDTH, 2' LONG, 10' SPACING	LANE TRANSITIONS, TURN LANE SKIPS
Ⓞ TYPE B CLASS 1.....WHITE 12" WIDTH, 20' SPACING @45 DEGREE	GORE MARKINGS
Ⓟ TYPE B CLASS 1.....YELLOW 8" WIDTH, @45 DEGREE	GORE MARKINGS
Ⓠ TYPE B CLASS 1.....WHITE 6" WIDTH, 2' LONG, 4' SPACING	LANE TRANSITIONS
Ⓡ TYPE B CLASS 1.....WHITE 4" WIDTH, DOUBLE LINE, 4' SPACING	CURB EXTENSIONS
Ⓢ TYPE B CLASS 1.....WHITE 24" WIDTH	VDOT - STOP BARS

SIGN AND PAVEMENT MARKING NOTES:

1. STREET WIDTH MEASUREMENTS ARE FROM FACE OF CURB TO FACE OF CURB. LANES ARE MEASURED FROM CENTER OF MARKING TO CENTER OF MARKING .
2. CONTACT DENNIS HOWELL OR HIS DESIGNEE AT 703-228-6598 OR (571) 437-1077 TO APPROVE MARKING LAYOUT 48 HRS. PRIOR TO INSTALLATION OF MARKINGS.
3. PAVEMENT MARKINGS TO BE IN ACCORDANCE WITH THE FOLLOWING AND ANY REVISIONS HERE TO:
   A.) THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
   B) ARLINGTON COUNTY MARKING STANDARDS.
4. ALL MARKINGS SHALL BE THERMOPLASTIC PER ARLINGTON COUNTY MARKING STANDARDS.
5. STOP BARS SHALL BE A MINIMUM OF 4' IN ADVANCE OF A MARKED CROSSWALK. IF THERE IS NO MARKED CROSSWALK, STOP BAR SHALL BE NO MORE THAN 30' FROM THE NEAREST EDGE OF THE INTERSECTED TRAVELED WAY.
6. CROSSWALKS SHALL BE 10' WIDE UNLESS OTHERWISE NOTED.
7. LEFT TURN ARROWS SHALL BE LOCATED 25' BACK FROM STOP BAR. FOR ADDITIONAL ARROWS FOLLOW COUNTY MARKING STANDARDS.
8. ON-STREET PARKING LANE IS 7' WIDE (UNLESS OTHERWISE NOTED) AND MARKED WITH 4' WIDE WHITE LINES. BEGINNING AND END OF PARKING SHALL BE MARKED WITH AN END LINE PERPENDICULAR TO CURB EXCEPT AT NUBS OR WHERE OTHERWISE INDICATED.
9. SHARED LANE MARKINGS SHALL BE PLACED IN CENTER OF LANE, 250' APART UNLESS OTHERWISE SPECIFIED.
10. BIKE LANE SYMBOLS TO BE PLACED 330' APART UNLESS OTHERWISE SPECIFIED.

LEGEND

EXISTING		PROPOSED
	SIGN PANEL	
	SIGN TO BE REMOVED	
	BUS STOP	
	FIRE HYDRANT	
	PARKING METER	
	SIGN	
	STRIPING	

HIGH VISIBILITY CROSSWALK

C - ROADSIDE SIGN IN BUSINESS, COMMERCIAL, OR RESIDENTIAL AREA

ARLINGTON
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WATER, SEWER, STREETS BUREAU CHIEF	11/19/19
TRANSPORTATION DIRECTOR	Nov 19/2019
PROJECT MANAGER	

REVISIONS	DATE

S ARLINGTON RIDGE RD AT S LANG ST
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INTERSECTION IMPROVEMENTS

SIGNAGE AND PAVEMENT MARKING PLAN

DESIGNED: L. DELACRUZ
DRAWN: L. DELACRUZ
CHECKED: P. RIGBY
MISS UTILITY TRANSMITTAL #: N/A

PLOTTED: NOVEMBER 20 2019

SCALE:

25 0 25
HORIZ: SCALE: 1" = 25'

SHEET 22 OF 27

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REVISED ON 05/23/2018

TEMPORARY ASPHALT CURB RAMP

ARLINGTON
VIRGINIA

DEPARTMENT OF ENVIRONMENTAL SERVICES
FACILITIES & ENGINEERING DIVISION
ENGINEERING BUREAU
2100 CLARENDON BOULEVARD, SUITE 813
ARLINGTON, VA 22201
PHONE: 703.228.3629
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SEAL

COMMONWEALTH OF VIRGINIA
PETER J. RIGBY III
Lic. No. 018746
11/5/19
PROFESSIONAL ENGINEER

APPROVALS	DATE
	11.18.2019
QUALITY CONTROL ENGINEER	11/18/19
CONSTRUCTION MANAGEMENT SUPERVISOR	11/19/19
WATER, SEWER, STREETS BUREAU CHIEF	11/19/19
TRANSPORTATION DIRECTOR	Nov 19 2019
PROJECT MANAGER	

REVISIONS	DATE

S ARLINGTON RIDGE RD AT S LANG ST
DC13
INTERSECTION IMPROVEMENTS

MOT PHASE 1

DESIGNED: L. DELACRUZ
DRAWN: L. DELACRUZ
CHECKED: P. RIGBY
MISS UTILITY TRANSMITTAL #: N/A

PLOTTED: NOVEMBER 20 2019

SCALE:

0 50 100
GRAPHIC SCALE

SHEET 23 OF 27

FILENAME: DC13-286-MOT-IN DETAIL.DWG PATH: Q:\DATA\DC13\DESIGN\CAD\ACTIVE PLOTTED BY: LDELACRUZ

REVISED ON 05/23/2018

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S ARLINGTON RIDGE RD AT S LANG ST
DC13
INTERSECTION IMPROVEMENTS

MOT PHASE 2

DESIGNED: L. DELACRUZ
DRAWN: L. DELACRUZ
CHECKED: P. RIGBY
MISS UTILITY TRANSMITTAL #: N/A

PLOTTED: NOVEMBER 20 2019

SCALE:

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MAINTENANCE OF TRANSPORTATION PLAN

S ARLINGTON RIDGE RD AND S LANG ST INTERSECTION IMPROVEMENTS

REVISED ON 05/23/2018

Built-Up Curb Ramps

Built-up curb ramps are permitted, but they cannot project in parking spaces, access aisles, or vehicle traffic lanes. A top landing at least 36" deep is required at all built-up curb ramps.

Built-Up Curb Ramp with Side Flares

Side flares can be provided to prevent tripping hazards. Edge protection is not specified for curb ramps.

TEMPORARY ASPHALT CURB RAMP

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S ARLINGTON RIDGE RD AT S LANG ST
DC13
INTERSECTION IMPROVEMENTS

MOT PHASE 3

DESIGNED: L. DELACRUZ
DRAWN: L. DELACRUZ
CHECKED: P. RIGBY
MISS UTILITY TRANSMITTAL #: N/A

PLOTTED: NOVEMBER 20 2019

SCALE:

0 50 100
GRAPHIC SCALE

SHEET 25 OF 27

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MAINTENANCE OF TRANSPORTATION PLAN

S ARLINGTON RIDGE RD AND S LANG ST INTERSECTION IMPROVEMENTS

REVISED ON 05/23/2018

TEMPORARY ASPHALT CURB RAMP

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S ARLINGTON RIDGE RD AT S LANG ST
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INTERSECTION IMPROVEMENTS

MOT PHASE 4

DESIGNED: L. DELACRUZ
DRAWN: L. DELACRUZ
CHECKED: P. RIGBY
MISS UTILITY TRANSMITTAL #: N/A

PLOTTED: NOVEMBER 20 2019

SCALE:

0 50 100
GRAPHIC SCALE

MAINTENANCE OF TRANSPORTATION PLAN

S ARLINGTON RIDGE RD AND S LANG ST INTERSECTION IMPROVEMENTS

REVISED ON 05/23/2018

CONSTRUCTION NOTES

1. FOR ALL ARTERIAL STREETS, PORTABLE VARIABLE MESSAGE SIGNS WITH CLOSURE INFORMATION MUST BE INSTALLED AHEAD OF THE PROJECT SITE AT EACH VEHICULAR APPROACH 3 WEEKS PRIOR TO STREET CLOSURE IN LOCATIONS DIRECTED BY THE PROJECT OFFICER.
2. CONTRACTOR SHALL REMOVE EXISTING PAVEMENT MARKINGS IN CONFLICT WITH TEMPORARY PAVEMENT MARKINGS.
3. CONTACT TRANSPORTATION ENGINEERING OPERATIONS AT 703-228-6598 OR 571-437-1077 AND THE PROJECT OFFICER TO APPROVE MARKING LAYOUT 48 HOURS PRIOR TO INSTALLATION OF MARKINGS.
4. ONE LANE CLOSURE IN EACH DIRECTION OF TRAFFIC WILL BE PERMITTED FOR FINAL PAVEMENT OVERLAY.
5. DURING CONSTRUCTION, THE CONTRACTOR SHALL MAINTAIN THE FLOW OF TRAFFIC ON ANY INTERSECTION WITHIN THE WORK AREA.
6. THE CONTRACTOR SHALL NOTIFY ARLINGTON COUNTY PUBLIC SCHOOLS TWO WEEKS PRIOR TO STARTING CONSTRUCTION.
7. THE CONTRACTOR SHALL SUBMIT ANY REQUESTS FOR TEMPORARY "NO PARKING" RESTRICTIONS TO THE PROJECT OFFICER AT LEAST 3 WORKING DAYS PRIOR TO THE DESIRED ONSET OF RESTRICTIONS. PRIOR TO A REQUEST FOR THE REMOVAL OF ACCESS TO ANY ADA PARKING SPACE THE CONTRACTOR MUST HAVE MADE PROVISION FOR ALTERNATIVE ADA PARKING AS INDICATED ON THE APPROVED PLAN OR AS DIRECTED BY THE PROJECT OFFICER
8. WHEN THE APPROVED PLAN CALLS FOR THE REMOVAL OF ANY PARKING METER THE CONTRACTOR MUST MAKE A REQUEST TO THE PROJECT OFFICER AT LEAST ONE WEEK IN ADVANCE OF THE DESIRED REMOVAL. THE PROJECT OFFICER WILL THEN COORDINATE THE PARKING METER REMOVAL WITH TRAFFIC ENGINEERING AND OPERATIONS.
9. MIDBLOCK SIDEWALK CLOSURES ARE NOT PERMITTED WITHOUT PROVIDING A TEMPORARY CROSSING. IN NO CIRCUMSTANCE SHALL PEDESTRIAN NEED TO BACK TRACK TO SAFE CROSSING DUE TO A CLOSURE.
10. ACCESS TO BUSINESS/DRIVEWAYS MUST BE MAINTAINED AT ALL TIMES. THIS MAY REQUIRE AN ACCESSIBLE PATH TO BE MAINTAINED.

MOT NOTES:

1. PARKING SHALL BE RESTRICTED BY THE COUNTY AS PART OF THE RIGHT OF WAY PERMIT. CONTACT DES-PERMITTING SECTION, 703-228-4798, AT LEAST 72 HOURS PRIOR TO COMMENCEMENT OF WORK.
2. ALL TEMPORARY BUS TRAVEL LANES MUST BE MINIMUM 11' WIDE.
3. THE CONTRACTOR SHALL MAINTAIN ADA ACCESSIBLE PARKING SPACES AT ALL TIMES DURING CONSTRUCTION. THE CONTRACTOR SHALL CONTACT DES - PERMITING, 703-228-4798, TO COORDINATE RELOCATION OF EXISTING ADA ACCESSIBLE PARKING SPACES OR TO INSTALL TEMPORARY SIGNAGE OUT OF AND ADJACENT TO THE WORK ZONE AS CONSTRUCTION PROGRESSES. MULTIPLE RELOCATIONS MAY BE NECESSARY DURING EACH PHASE.
4. SPECIAL COMBINATION SHALL BE GIVEN TO SCHOOL ACCESS AT THE START OF WORK IN PHASE 3, CONTRACTOR SHALL CREATE AN ACCESSWAY, PREFERABLE ALONG ULTIMATE SIDEWALK ALIGNMENT, WITH FENCING ON BOTH SIDES TO ALLOW ACCESS TO THE INTERSECTION WHILE WORKING ON THE EAST AND WEST SIDES OF THE CONSTRUCTION PHASE.
5. DO NOT CLOSE THE CROSSINGS AT THE SAME TIME. ONLY ONE CAN BE CLOSED AT A TIME TO ALLOW PEDESTRIAN ACCESS THROUGH THE INTERSECTION.

PEDESTRIAN NOTE:

1. 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 MIDBLOCK WORK SITES.

PHASE TABLE

PHASE #	TTC#		COMMENTS	MAXIMUM DURATION	WORK HOURS
	VEHICULAR	PEDESTRIAN			
1	5.2	35.1, 36.1	WARNING SIGN SPACING: 100'; DRUM SPACING: 20'	1 - 3 MONTH	8:30 AM TO 4:30 PM
2	5.2	35.1, 36.1	WARNING SIGN SPACING: 100'; DRUM SPACING: 20'	1 - 3 MONTH	8:30 AM TO 4:30 PM
3	5.2, 34.2, 48.2	35.1, 36.1	WARNING SIGN SPACING: 100'; DRUM SPACING: 20'	1 -3 MONTH	8:30 AM TO 4:30 PM
4	54.1	35.1, 36.1	WARNING SIGN SPACING: 100'; DRUM SPACING: 20'	1 - 4 WEEK	8:30 AM TO 4:30 PM

NOTE: THE DURATIONS SHOWN WERE DEVELOPED FOR PLANNING AND ESTIMATION PURPOSES ONLY. THE DURATIONS IN NO WAY ALTER THE CONTRACT TIME FOR COMPLETION, OR INFRINGES ON THE CONTRACTOR MEANS AND METHODS. THE CONTRACTOR'S SUBMITTED SCHEDULE SUPERSEDES THE ESTIMATED DURATIONS SHOWN.

ZONE NOTES:

1. THE FOLLOWING ZONES CAN NOT BE BUILT AT THE SAME TIME :
   1 , 2, 3 AND 4
2. WARNING SIGN SPACING :
   100' CHANNELIZATION DEVICES SPACING FOR TRANSITION A AREAS = 20'

APPLIED TO ALL ZONES

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