ARLINGTON COUNTY, VIRGINIA

2100 Clarendon Boulevard, Arlington, VA 22201

ARLINGTON VIRGINIA

9/13/2023

Approved: 9/13/2023
Subject to field inspection
LDAP23-00060

PERMIT SUMMARY

ADDITIONAL INFORMATION

Permit Holder	
Contractor	
Type of Work	Land Disturbance Activity
Brief Description of Work	
Code Cycle	

PLANS APPROVED BY

Area of Approval	Reviewer Name	Date
DES Wet Utilities	Reza Ravandoust	08/18/2023
DES Stormwater Management	Matthew Berner	09/13/2023
DPR Urban Forestry	Melissa Gildea	09/13/2023

PLANS APPROVED AS NOTED BY THE FOLLOWING COMMENTS

REVISED ON 1/24/2022

ARLINGTON
VIRGINIA

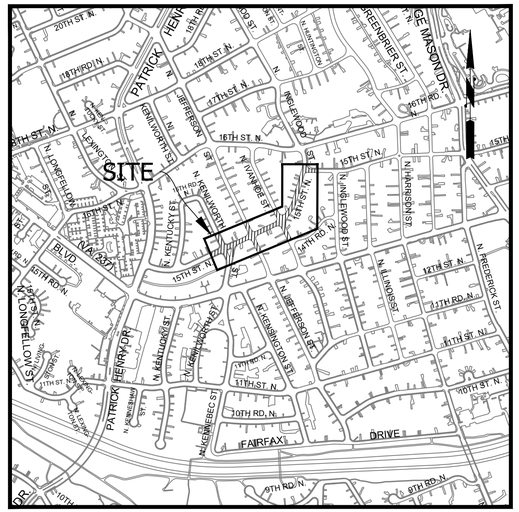
ENGINEER
DEPARTMENT OF
ENVIRONMENTAL SERVICES

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/OD/WSS

CONTRACTOR
TO BE DETERMINED

LOCATION MAP



0 600 1200
GRAPHIC SCALE

CONSTRUCTION DRAWINGS FOR:

15TH STREET N
N INGLEWOOD ST TO N KENILWORTH ST

PROJECT NUMBER: Z313

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 5 BUSINESS 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.
15. 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.
16. 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. ANY RELOCATION OR CLOSURE OF A BUS STOP SHALL REQUIRE AT LEAST FOUR WEEKS ADVANCE NOTICE FOR COORDINATION WITH THE COUNTY'S BUS STOP COORDINATOR - 703-228-3049.
17. 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

18. 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.
19. 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.
20. 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:

21. ALL EXISTING FIRE HYDRANTS AND FIRE DEPARTMENT CONNECTIONS SHALL BE MAINTAINED UNOBSTRUCTED AND ACCESSIBLE AT ALL TIMES IN ACCORDANCE WITH SECTIONS 507.5.4 AND 507.5.5 OF THE ARLINGTON COUNTY FIRE PREVENTION CODE.
22. 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 3310 OF THE ARLINGTON COUNTY FIRE PREVENTION CODE.
23. 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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C031.1	EROSION AND SEDIMENT CONTROL PLAN
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C032.2	EROSION AND SEDIMENT CONTROL NOTES AND DETAILS
C032.3	EROSION AND SEDIMENT CONTROL NOTES AND DETAILS
C032.4	EROSION AND SEDIMENT CONTROL NOTES AND DETAILS 1
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C121.1	MAINTENANCE OF TRAFFIC PLAN
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C122.1	MAINTENANCE OF TRAFFIC NOTES & DETAILS
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C123.1	MAINTENANCE OF TRAFFIC DETOUR PLAN
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C200.2	TURNING MOVEMENT EXHIBIT 2
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C200.4	TURNING MOVEMENT EXHIBIT 4

The project proposes curb and gutter, sidewalk, driveway and storm drainage infrastructure, the project will also include a planted utility strip improvement

SWM 23-0068

ADT

280 vehicles per day - N 15TH STREET - 2018 ARLINGTON
40 vehicles per day - N 16TH STREET - 2018 ARLINGTON

STREET CLASSIFICATION

15TH STREET N , N INGLEWOOD ST , N IVANHOE ST , N JEFFERSON ST , N KENILWORTH ST - NEIGHBORHOOD RESIDENTIAL LOCAL STREET

POSTED SPEED

15TH STREET N - 25 MPH
N IVANHOE ST - 25 MPH
N KENILWORTH ST - 25 MPH
N JEFFERSON ST - 25 MPH

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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
GIDO SQUARCIAFICO
No. 47698
06/30/2023
PROFESSIONAL ENGINEER

APPROVALS DATE

QUALITY CONTROL ENGINEER

CONSTRUCTION MANAGEMENT SUPERVISOR

WATER, SEWER, STREETS BUREAU CHIEF

ENGINEERING BUREAU CHIEF

PROJECT MANAGER

REVISIONS DATE

15TH STREET N
Z313
N INGLEWOOD ST TO N KENILWORTH ST

COVER

DESIGNED: V. ROLLAMAS
DRAWN: V. ROLLAMAS
CHECKED: G. SQUARCIAFICO

PLOTTED: SEPTEMBER 5 2023

SCALE:

AS NOTED

C000.1

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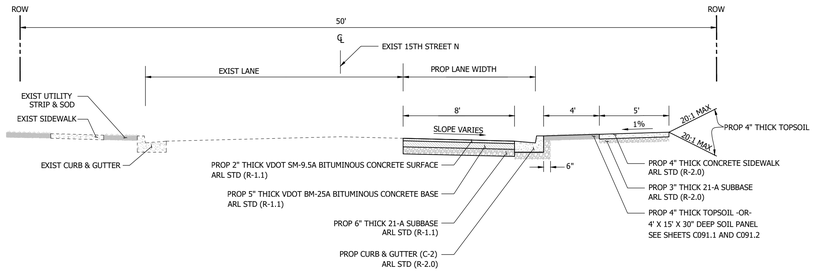
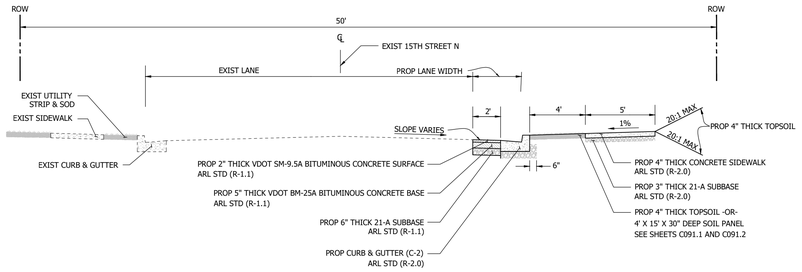
REVISED ON 1/24/2022



PROP 15TH STREET N
TYPICAL SECTION
STA 8+26 TO STA 8+50
SCALE: NTS



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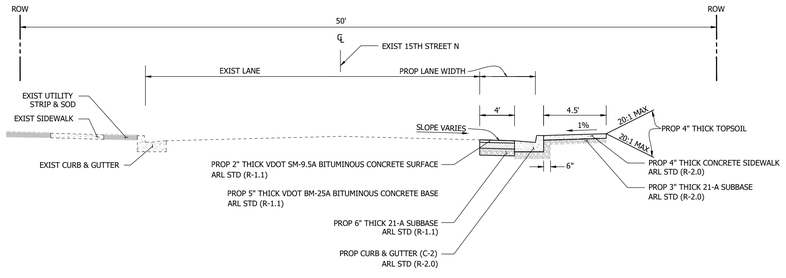

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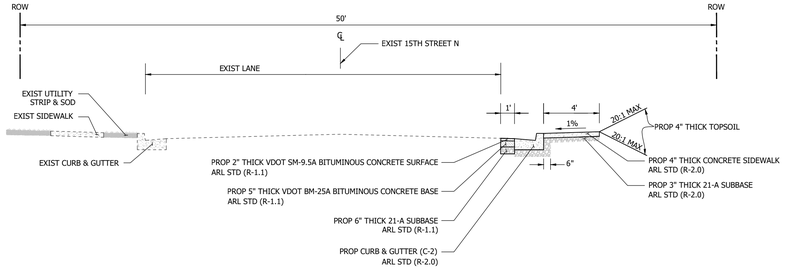

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TYPICAL SECTION
STA 10+75 TO STA 12+75
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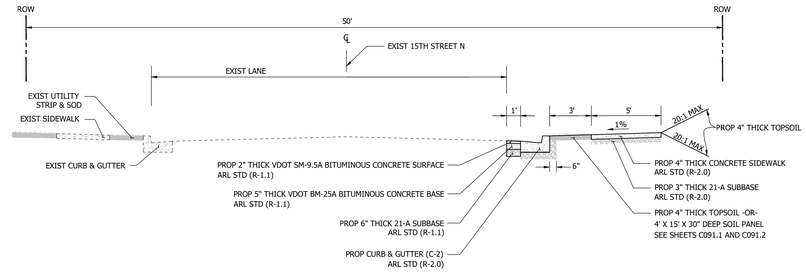

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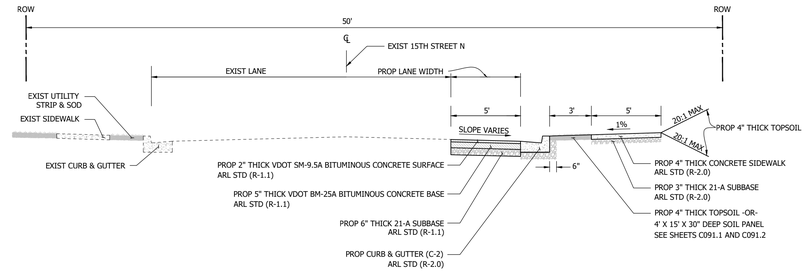
SCALE: NTS



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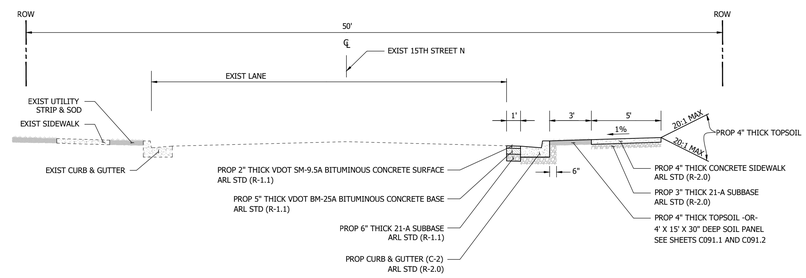
SCALE: NTS



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STA 14+75 TO STA 16+45
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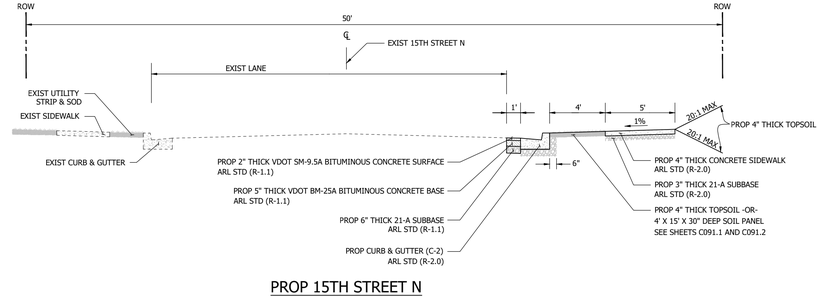

PROP 15TH STREET N
TYPICAL SECTION
STA 16+45 TO STA 17+60
SCALE: NTS

ARLINGTON VIRGINIA

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ARLINGTON VIRGINIA

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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
GINO SQUARCIAFICO
No. 043698
06/30/2023
PROFESSIONAL ENGINEER

APPROVALS DATE

QUALITY CONTROL ENGINEER

CONSTRUCTION MANAGEMENT SUPERVISOR

WATER, SEWER, STREETS BUREAU CHIEF

ENGINEERING BUREAU CHIEF

PROJECT MANAGER

REVISIONS DATE

15TH STREET N
Z313
N INGLEWOOD ST TO N KENILWORTH ST

TYPICAL SECTION

DESIGNED: V ROLLAMAS
DRAWN: V ROLLAMAS
CHECKED: G SQUARCIAFICO

PLOTTED: AUGUST 30 2023

SCALE:

NOT TO SCALE

C001.1

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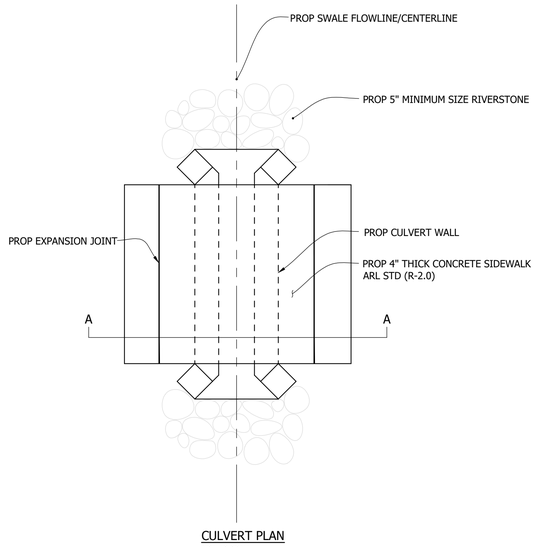
REVISED ON 1/24/2022



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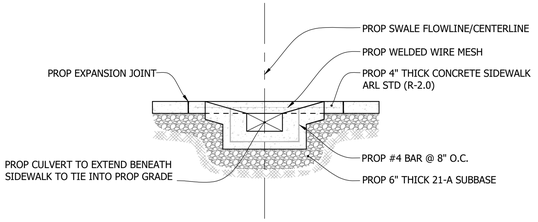

SECTION A - A
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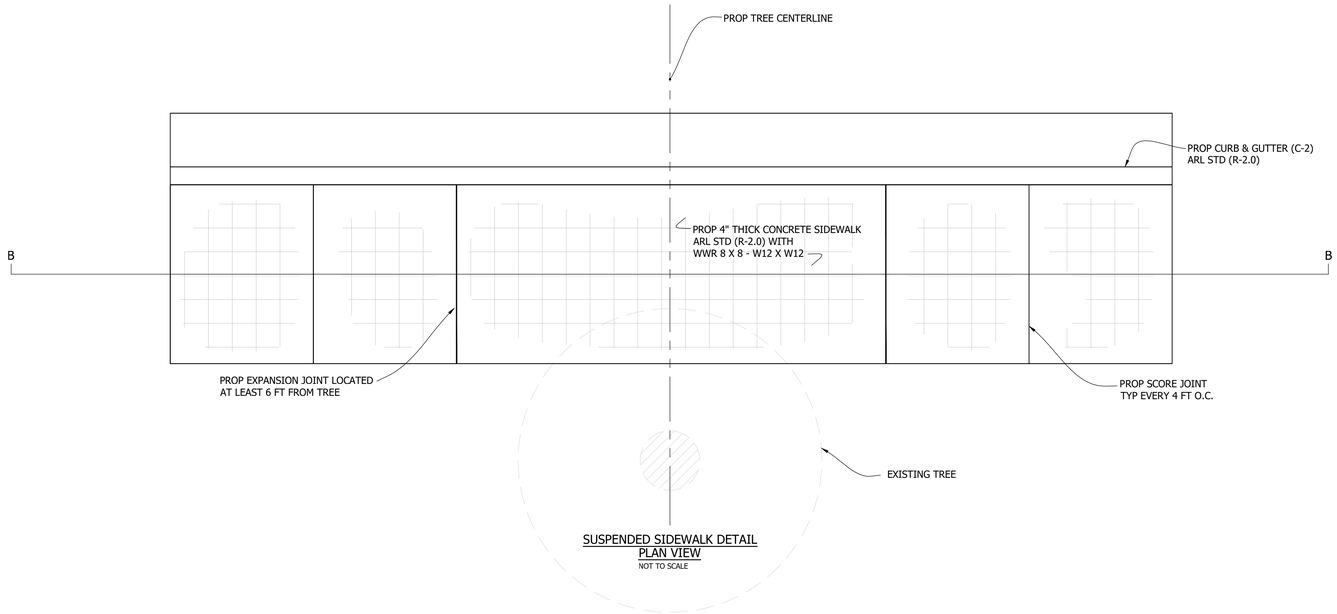
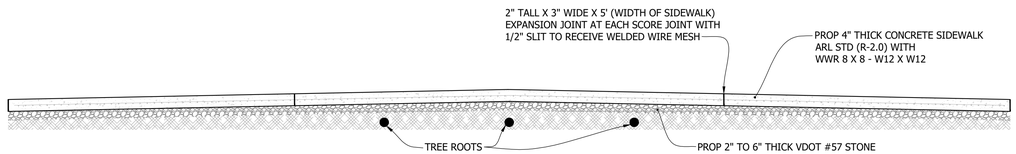


SUSPENDED SIDEWALK DETAIL
PLAN VIEW
NOT TO SCALE



SECTION B - B
NOT TO SCALE

ARLINGTON VIRGINIA

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FACILITIES & ENGINEERING DIVISION
ENGINEERING BUREAU
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ARLINGTON, VA 22201
PHONE: 703.228.3629
FAX: 703.228.3606

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SEAL

COMMONWEALTH OF VIRGINIA
GINO SQUARCIAFICO
No. 042388
PROFESSIONAL ENGINEER
06/30/2023

APPROVALS DATE

QUALITY CONTROL ENGINEER

CONSTRUCTION MANAGEMENT SUPERVISOR

WATER, SEWER, STREETS BUREAU CHIEF

ENGINEERING BUREAU CHIEF

PROJECT MANAGER

REVISIONS DATE

15TH STREET N
Z313
N INGLEWOOD ST TO N KENILWORTH ST

DETAILS

DESIGNED: V. ROLLAMAS
DRAWN: V. ROLLAMAS
CHECKED: G SQUARCIAFICO

PLOTTED: AUGUST 30 2023

SCALE:

AS NOTED

C002.1

FILENAME: Z313-204-DETAIL.DWG PATH: Q:\DATA\Z313\DESIGN\CAD\ACTIVE PLOTTED BY: VROLLAMAS

REVISED ON 1/24/2022

LINETYPE LEGEND

FEATURE	EXISTING	PROPOSED
BUILDING		
CENTERLINE / BASELINE		
COMMUNICATIONS CABLE	COM	COM
CONTOURS MAJOR; MINOR	250 250 250	
CRITICAL ROOT ZONE	CRZ CRZ	CRZ CRZ
EASEMENT		
ELECTRIC (UNDERGROUND)	UGE UGE	UGE UGE
FENCE (MATERIAL NOTED)	X X X X X	X X X X X
FIBER OPTIC		
GAS LINE		
X" GAS LINE (SIZE INCLUDED IF AVAILABLE)	X" G X" G	X" G X" G
GUARDRAIL		
HARDSCAPE FEATURE (MATERIAL NOTED)		
LIMITS OF DISTURBANCE	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	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)		
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	PROPOSED
EX CABLE PEDESTAL	PROP 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	
EXISTING SANITARY STRUCTURE NUMBER	XXXX	PROPOSED SANITARY SEWER STRUCTURE NUMBER	XXXX
EXISTING STORM SEWER STRUCTURE NUMBER	XXXX	PROPOSED STORM SEWER STRUCTURE NUMBER	XXXX

HATCH LEGEND

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

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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
GINO SQUARCIAFICO
No. 042698
PROFESSIONAL ENGINEER
06/30/2023

APPROVALS DATE

QUALITY CONTROL ENGINEER

CONSTRUCTION MANAGEMENT SUPERVISOR

WATER, SEWER, STREETS BUREAU CHIEF

ENGINEERING BUREAU CHIEF

PROJECT MANAGER

REVISIONS DATE

15TH STREET N
Z313
N INGLEWOOD ST TO N KENILWORTH ST

LEGEND

DESIGNED: V. ROLLAMAS
DRAWN: V. ROLLAMAS
CHECKED: G SQUARCIAFICO

PLOTTED: AUGUST 30 2023

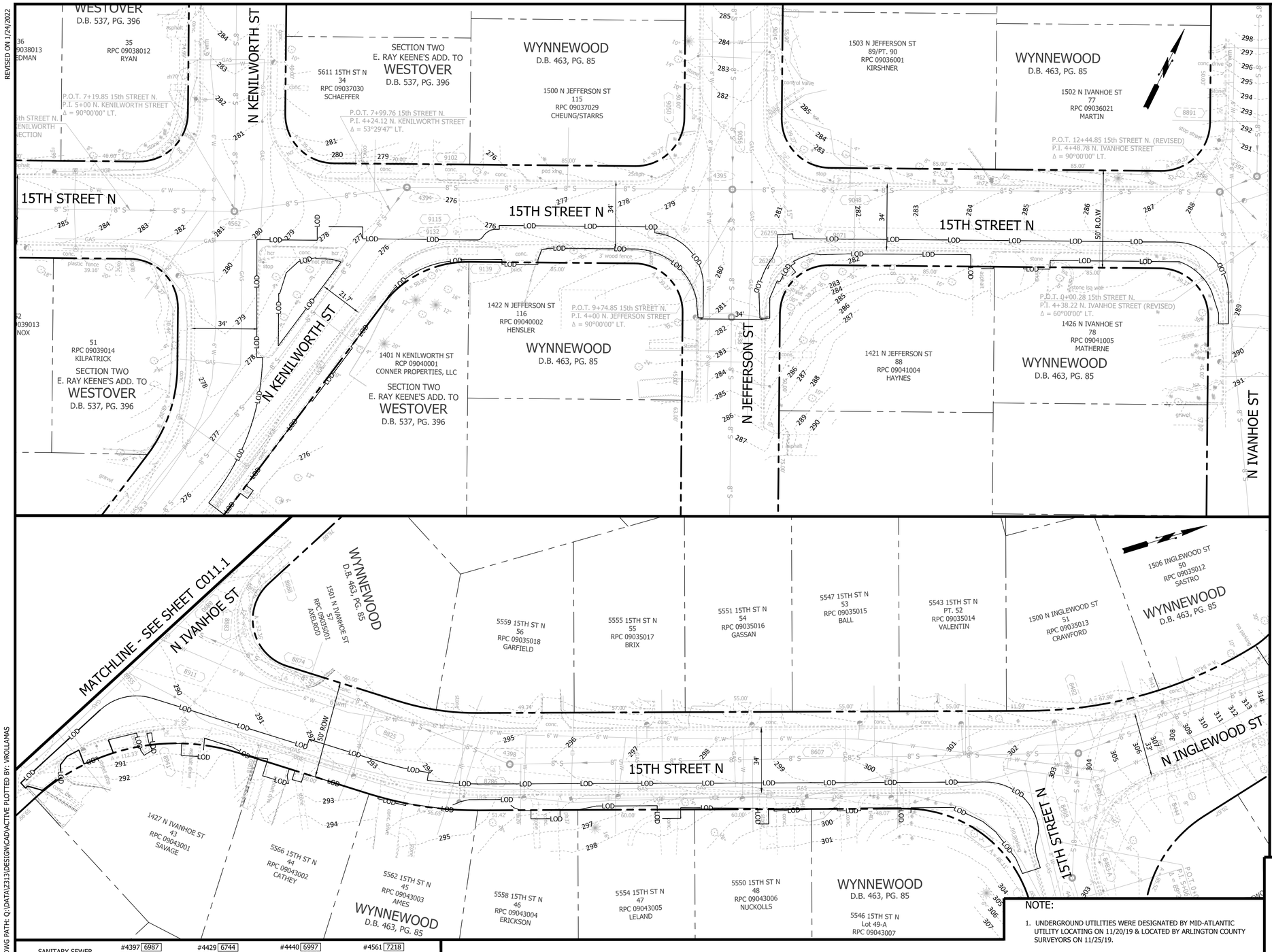
SCALE:

N/A

C006.1

FILENAME: Z313-202-LEGEND.DWG PATH: Q:\DATA\Z313\DESIGN\CAD\ACTIVE PLOTTED BY: VROLLAMAS

REVISED ON 1/24/2022



MATCHLINE - SEE SHEET C011.1

STORM SEWER TABULATIONS

#8283
TOP = 328.85
30" RCP INV. OUT = 319.35 (8314)

#8288
TOP = 321.57
15" RCP INV. IN = 318.26 (8298)
15" RCP INV. OUT = 318.16 (24847)

#8298
TOP = 322.77
15" RCP INV. OUT = 319.59 (8288)

#8314
TOP = 321.55
30" RCP INV. IN = 314.50 (8283)
30" RCP INV. OUT = 314.50 (8352)

#8352
TOP = 320.01
30" RCP INV. IN = 310.16 (24848)
30" RCP INV. IN = 310.16 (8314)
30" RCP INV. OUT = 309.86 (8452)

#8444
TOP = 307.72
15" RCP INV. OUT = 302.92 (8452)

#8452
TOP = 307.20
(COULD NOT MEASURE)

#8482
TOP = 304.32
15" RCP INV. OUT = 300.69 (8491)

#8483
TOP = 303.01
15" RCP INV. OUT = 299.98 (8483-A)
*BURIED MH/INFO. TAKEN FROM PREVIOUS SURVEY

#8483-A
TOP = 303.59
15" RCP INV. IN = 298.91 (8483)
15" RCP INV. OUT = 298.75 (8498)

#8491
TOP = 303.46
15" RCP INV. IN = 296.11 (8482)
30" RCP INV. IN = 296.11 (8452)
36" RCP INV. OUT = 296.10 (8607)

#8498
TOP = 303.17
24" RCP INV. IN = 297.90 (8452)
15" RCP INV. IN = 298.27 (8483)
24" RCP INV. IN = 297.37 (8502)
15" RCP INV. IN = 298.17 (8528)
21" RCP INV. OUT = 297.34 (8786)

#8502
TOP = 311.32
24" RCP INV. OUT = 303.51 (8498)

#8607
TOP = 299.70
36" RCP INV. IN = 293.19 (8491)
36" RCP INV. OUT = 293.18 (8825)

#8528
TOP = 302.59
15" RCP INV. OUT = 299.87 (8498)

#8786
TOP = 295.21
21" RCP INV. IN = 289.61 (8498)
21" RCP INV. OUT = 289.59 (8941)

#8825
TOP = 293.74
36" RCP INV. IN = 287.24 (8607)
36" RCP INV. OUT = 287.24 (8911)

#8868
TOP = 295.29
15" RCP INV. OUT = 289.77 (8890)

#8874
TOP = 291.20
15" RCP INV. OUT = 287.17 (8883)

#8883
TOP = 291.38
15" RCP INV. IN = 286.58 (8874)
15" RCP INV. OUT = 286.55 (8911)

#8890
TOP = 292.56
15" RCP INV. IN = 288.31 (8891)
15" RCP INV. IN = 286.78 (8868)
21" RCP INV. OUT = 286.28 (8955)

STORM SEWER TABULATIONS

#8891
TOP = 292.75
15" RCP INV. OUT = 289.57 (8890)

#8911
TOP = 290.36
15" RCP INV. IN = 284.26 (8883)
36" RCP INV. IN = 284.26 (8825)
36" RCP INV. OUT = 284.26 (8955)

#8941
TOP = 289.12
21" RCP INV. IN = 285.14 (8786)
21" RCP INV. OUT = 285.12 (8955)

#8955
TOP = 289.38
21" RCP INV. IN = 283.08 (8890)
36" RCP INV. IN = 283.08 (8911)
36" RCP INV. OUT = 283.08 (9071)

#9014
TOP = 283.28
15" RCP INV. OUT = 279.93 (9056)

#9048
TOP = 281.21
15" RCP INV. OUT = 277.71 (9071)

#9050
TOP = 280.78
15" RCP INV. OUT = 277.63 (9056)

#9056
TOP = 281.09
15" RCP INV. IN = 276.60 (9050)
5" RCP INV. IN = 276.60 (9014)
18" RCP INV. OUT = 276.60 (9084)

#9071
TOP = 281.38
36" RCP INV. IN = 275.78 (8955)
15" RCP INV. IN = 275.78 (9048)
36" RCP INV. OUT = 275.78 (9084)

#9084
TOP = 279.27
18" RCP INV. IN = 273.58 (9056)
36" RCP INV. IN = 273.58 (9071)
36" RCP INV. OUT = 273.58 (9115)

#9102
TOP = 275.37
42" RCP INV. OUT = 270.28 (9115)

#9115
TOP = 275.57
42" RCP INV. IN = 269.49 (9102)
36" RCP INV. IN = 269.49 (9084)
42" RCP INV. OUT = 269.47 (9132)

#9132
NO TOP
ELEVATION @ GROUND = 274.99
(NO ACCESS)

#9139
TOP = 275.22
42" RCP INV. IN = 269.64 (9132)
42" RCP INV. OUT = 269.54 (9433)

#9433
TOP = 272.41
(COULD NOT OPEN)

#24847
TOP = 321.27
15" RCP INV. IN = 317.07 (8288)
30" RCP INV. OUT = 317.07 (24848)

#24848
TOP = 320.71
30" RCP INV. IN = 314.54 (24847)
30" RCP INV. OUT = 314.30 (8352)

#26259
TOP = 280.74
21" RCP INV. IN = 275.12 (8941)
15" RCP INV. IN = 275.39 (26260)
21" RCP INV. OUT = 274.92 (9132)

#26260
TOP = 280.40
15" RCP INV. OUT = 276.09 (26259)

SANITARY SEWER TABULATIONS

#4397 6987 TOP=290.23 C/L INV. = 279.63
#4398 6897 TOP = 295.48 C/L INV. = 285.38
#4394 7153 TOP = 276.01 C/L INV. = 268.25
#4395 7093 TOP = 280.47 C/L INV. = 272.57
#4396 7015 TOP = 288.91 (COULD NOT OPEN)
#4428 6742 TOP = 302.87 C/L INV. = 294.59
#4429 6744 TOP = 311.54 C/L INV. = 299.33
#4433 7142 TOP = 301.88 C/L INV. = 289.55
#4436 6854 TOP = 312.07 (COULD NOT OPEN)
#4438 7144 TOP = 281.72 C/L INV. = 273.12
#4439 7255 TOP = 296.75 C/L INV. = 287.07
#4440 6997 TOP = 288.84 C/L INV. = 279.06
#4446 6616 TOP = 326.76 (COULD NOT OPEN)
#4447 6607 TOP = 323.24 (COULD NOT OPEN)
#4448 6580 TOP = 327.75 C/L INV. = 317.06
#4480 6560 TOP = 324.27 C/L INV. = 314.43
#4561 7218 TOP = 287.99 C/L INV. = 278.05
#4562 7165 TOP = 281.14 C/L INV. = 271.12
#4563 6979 TOP = 299.71 C/L INV. = 289.16

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 11/2019 TO 02/2020; 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.

NOTE:

1. UNDERGROUND UTILITIES WERE DESIGNATED BY MID-ATLANTIC UTILITY LOCATING ON 11/20/19 & LOCATED BY ARLINGTON COUNTY SURVEYORS ON 11/25/19.
2. WATER LINE & SANITARY SEWER PIPE SIZES ARE SHOWN PER ARLINGTON COUNTY RECORDS.

HORIZONTAL DATUM: VIRGINIA COORDINATE SYSTEM 1983 - NORTH ZONE.

VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM 1988.

BOUNDARY INFORMATION SHOWN HEREON WAS COMPILED FROM EXISTING LAND RECORDS AND DOES NOT REPRESENT A FIELD RUN BOUNDARY SURVEY.

PARTY CHIEF: SHRADER/LEMENI
SURVEY PM: GOTTSELIG
PROJECT: 7048/Z313

ARLINGTON VIRGINIA
DEPARTMENT OF ENVIRONMENTAL SERVICES
Engineering Bureau - Survey Section
2100 Clarendon Boulevard, Suite 813
Arlington, VA 22201

TOPOGRAPHIC SURVEY

15TH STREET NORTH

FROM N KENILWORTH ST
TO 16TH STREET N

ARLINGTON COUNTY, VIRGINIA
SHEET 1 OF 1

I HEREBY CERTIFY THAT THIS TOPOGRAPHIC SURVEY WAS COMPLETED UNDER THE DIRECT AND RESPONSIBLE CHARGE OF ROBERT L. FRANCA, L.S. FROM AN ACTUAL GROUND SURVEY MADE UNDER MY SUPERVISION; THAT THE IMAGERY AND/OR ORIGINAL DATA WAS OBTAINED FROM 11/2019 TO 02/2020; AND THAT THIS PLAT, MAP OR DIGITAL GEOSPATIAL DATA INCLUDING METADATA MEETS MINIMUM ACCURACY STANDARDS UNLESS OTHERWISE NOTED.

COMMONWEALTH OF VIRGINIA
ROBERT L. FRANCA
Lic. No. 1726
LAND SURVEYOR

ARLINGTON VIRGINIA
Approved: 9/13/2023
Subject to field inspection
LDAP23-00060

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
GIUSEPPE SQUARCIAFICO
No. 039698
06/30/2023
PROFESSIONAL ENGINEER

APPROVALS DATE

QUALITY CONTROL ENGINEER
CONSTRUCTION MANAGEMENT SUPERVISOR
WATER, SEWER, STREETS BUREAU CHIEF
ENGINEERING BUREAU CHIEF
PROJECT MANAGER

REVISIONS DATE

15TH STREET N
Z313
N INGLEWOOD ST TO N KENILWORTH ST

EXISTING CONDITIONS PLAN

DESIGNED: V. ROLLAMAS
DRAWN: V. ROLLAMAS
CHECKED: G SQUARCIAFICO

PLOTTED: SEPTEMBER 8 2023

SCALE: 1"=25'

0 25 50
GRAPHIC SCALE

C011.1

FILENAME: Z313-214-EXISTING_CONDITIONS.DWG PATH: Q:\DATA\Z313\DESIGN\CAD\ACTIVE PLOTTED BY: VROLLAMAS

REVISED ON 1/24/2022

NOTE:
WHERE EXISTING PAVEMENT OR CURB IS TO BE REMOVED WITHIN THE CRITICAL ROOT ZONE OF A TREE, LEAVE PAVEMENT IN PLACE AS LONG AS POSSIBLE DURING CONSTRUCTION.
REMOVE PAVEMENT WITH THE ROLLBACK TECHNIQUE, KEEP EQUIPMENT ON PAVING, AND LIMIT OVERDIG WHEN REMOVING CURBS. ONCE PAVEMENT HAS BEEN REMOVED, VEHICULAR TRAFFIC IS STRICTLY PROHIBITED UNTIL PAVING IS REPLACED. REPLACE PAVING WITHOUT ADDITIONAL EXCAVATION OR COMPACTION. COORDINATE WITH THE URBAN FORESTER WHEN PROCESS OR CONSTRUCTION DETAILS CAN'T FOLLOW THIS SPECIFICATION. THIS NOTE DOES NOT APPLY TO EXCAVATION WITHIN ROADWAYS UNLESS SPECIFICALLY CALLED OUT ON THE PLAN.

MATCHLINE - SEE SHEET C021.1

MATCHLINE - SEE SHEET C021.1

ARLINGTON VIRGINIA
Approved: 9/13/2023
Subject to field inspection
LDAP23-00060

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
GINO SQUARCIAFICO
No. 043288
PROFESSIONAL ENGINEER
06/30/2023

APPROVALS DATE

DESIGN TEAM ENGINEER SUPERVISOR

CONSTRUCTION MANAGEMENT SUPERVISOR

WATER, SEWER, STREETS BUREAU CHIEF

TRANSPORTATION DIRECTOR

PROJECT MANAGER

REVISIONS DATE

15TH STREET N
Z313
N INGLEWOOD ST TO N KENILWORTH ST

DEMOLITION PLAN

DESIGNED: V. ROLLAMAS
DRAWN: V. ROLLAMAS
CHECKED: G SQUARCIAFICO

PLOTTED: JULY 18 2023

SCALE: 1"=25'

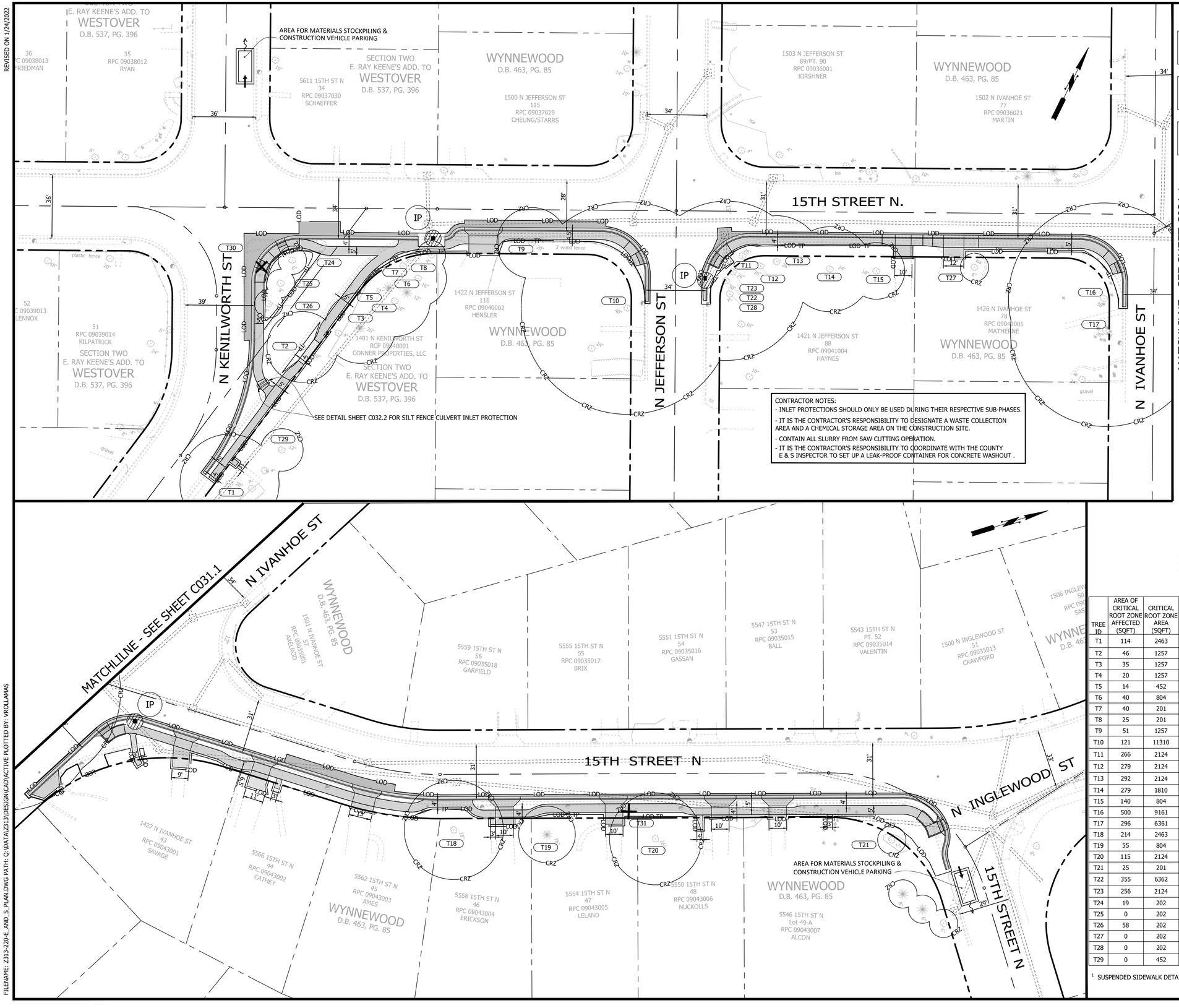
0 25 50
GRAPHIC SCALE

C021.1

FILENAME: Z313-228-DEMOLITION_PLAN.DWG PATH: Q:\DATA\Z313\DESIGN\CAD\ACTIVE PLOTTED BY: VROLLAMAS

15TH STREET N Z313

REVISED ON 1/24/2022



EROSION AND SEDIMENT CONTROL LEGEND

3.07	STORM DRAIN INLET PROTECTION	IP	
3.26	DEWATERING STRUCTURE	DS	
3.38	TREE PROTECTION	TP	TP
	LIMITS OF WORK		LOW
	LIMITS OF DISTURBANCE		LOD
	CRITICAL ROOT ZONE		CRZ
	ROOT PRUNING		RP

SOIL MAP (NTS)

SOIL NAME: URBAN LAND-GLENELG-NEABSCO COMPLEX

TREE ID	AREA OF CRITICAL ROOT ZONE AFFECTED (SQFT)	CRITICAL ROOT ZONE AREA (SQFT)	ROOT ZONE PERCENTAGE AFFECTED (%)	SOIL VOLUME (CUFT)	COMMENTS
T1	114	2463	5%	7389	VOLUME SHARED WITH T29 & TWO (2) 4" TREES
T2	46	1257	4%	3771	VOLUME SHARED WITH T3 [1]
T3	35	1257	3%	3771	VOLUME SHARED WITH T2, T4, & T5
T4	20	1257	2%	3771	VOLUME SHARED WITH T3, T5, T6, & T7
T5	14	452	3%	1356	VOLUME SHARED WITH T3, T4, T6, & T7
T6	40	804	5%	2412	VOLUME SHARED WITH T4, T5, T7, & T8
T7	40	201	20%	603	VOLUME SHARED WITH T4, T5, T6, & T8
T8	25	201	12%	603	VOLUME SHARED WITH T6, T7
T9	51	1257	4%	3771	VOLUME SHARED WITH T10
T10	121	11310	1%	33930	VOLUME SHARED WITH T9, T11, T12, T22, & T28 & 24" TREE & 18" TREE
T11	266	2124	13%	6372	VOLUME SHARED WITH T10, T12, T13, T22, T23, & T28 & 18" TREE
T12	279	2124	13%	6372	VOLUME SHARED WITH T11, T13, T14, T22, T23, & T28 & 18" TREE
T13	292	2124	14%	6372	VOLUME SHARED WITH T11, T12, T14, T22, & T23
T14	279	1810	15%	5430	VOLUME SHARED WITH T3, T15, & T22
T15	140	804	17%	2412	VOLUME SHARED WITH T4
T16	500	9161	5%	27483	VOLUME SHARED WITH T17 & 24" TREE
T17	296	6361	5%	19083	VOLUME SHARED WITH T16 & 24" TREE
T18	214	2463	9%	7389	
T19	55	804	7%	2412	
T20	115	2124	5%	6372	
T21	25	201	12%	603	
T22	355	6362	6%	19086	VOLUME SHARED WITH T10, T11, T12, T14, T23, & T28 & 18" TREE
T23	256	2124	12%	6372	VOLUME SHARED WITH T10, T11, T12, T13, T22, & T28 & 18" TREE
T24	19	202	9%	606	VOLUME SHARED WITH T25
T25	0	202	0%	606	VOLUME SHARED WITH T24, & T26
T26	58	202	29%	606	VOLUME SHARED WITH T25
T27	0	202	0%	606	
T28	0	202	0%	606	VOLUME SHARED WITH T10, T11, T12, T13, T22, & T23 & 18" TREE
T29	0	452	0%	1356	VOLUME SHARED WITH T1

[1] SUSPENDED SIDEWALK DETAIL TARGETED AT THIS LOCATION

ARLINGTON VIRGINIA

Approved: 9/13/2023
Subject to field inspection
LDAP23-00060

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
GINO SQUARCIAFICO
No. 036868
PROFESSIONAL ENGINEER
06/30/2023

APPROVALS	DATE
QUALITY CONTROL ENGINEER	
CONSTRUCTION MANAGEMENT SUPERVISOR	
WATER, SEWER, STREETS BUREAU CHIEF	
ENGINEERING BUREAU CHIEF	
PROJECT MANAGER	

REVISIONS	DATE

EROSION AND SEDIMENT CONTROL PLAN

15TH STREET N
Z313
N INGLEWOOD ST TO N KENILWORTH ST

DESIGNED: V ROLLAMAS
DRAWN: V ROLLAMAS
CHECKED: G SQUARCIAFICO

PLOTTED: SEPTEMBER 8 2023

SCALE: 1"=25'

0 25 50
GRAPHIC SCALE

C031.1

FILENAME: Z313-220-E_AND_S_PLAN.DWG PATH: Q:\DATA\Z313\DESIGN\CAD\ACTIVE PLOTTED BY: VROLLAMAS

REVISED ON 1/24/2022

EROSION AND SEDIMENT CONTROL NARRATIVE

PROJECT DESCRIPTION:

15TH STREET N IS A NEIGHBORHOOD CONSERVATION STREET IMPROVEMENT AND BEAUTIFICATION PROJECT - BETWEEN N INGLEWOOD ST AND N KENILWORHT ST - THE PROJECT PROPOSES CURB AND GUTTER, SIDEWALK, DRIVEWAY AND STORM DRAINAGE INFRASTRUCTURE, THE PROJECT WILL ALSO INCLUDE A PLANTED UTILITY STRIP AND ASSOCIATED WORKS. THE TOTAL DISTURBED AREA IS 19,704 SF (0.4523 ACRE) AND THE TOTAL PROJECT AREAS IS 72,663 (1.67 ACRE).

EXISTING SITE CONDITIONS:

15TH STREET N IS IN TARA-LEEWAY-HEIGHTS. THE EXISTING ROADWAY IS DEVOID OF SIDEWALK. PART OF EXISTING PAVEMENT WILL REQUIRE OF FULL DEPTH RESTORATION.

ADJACENT PROPERTIES:

RESIDENTIAL PROPERTIES ARE ALONG BOTH SIDES OF 15TH STREET N.

OFF-SITE AREAS:

THE EXTENT OF OFFSITE CONSTRUCTION IS LIMITED TO CONNECTING TO THE EXISTING ROADWAY THAT FLANKS THE PROJECT BOUNDARY. THE E&S PLAN WILL IDENTIFY CONTRACTOR LAYDOWN AREAS AND POTENTIAL PARKING ARES WHERE POTENTIALLY NEEDED.

CRITICAL AREAS:

LOWEST POINT LOCATED AT STATION 8+94 15TH STREET N CENTERLINE.

EROSION AND SEDIMENT CONTROL MEASURES:

THE EROSION AND SEDIMENT CONTROL MEASURES FOR THIS PROJECT AREA INCLUDE SAFETY FENCE AND INLET PROTECTION. INLET PROTECTION IS REQUIRED OUTSIDE THE PROJECT LIMITS WHEN/WHERE WATER FROM DISTURBED AREA FLOWS. (REVISE AS NEEDED)

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.....= 19,704 SF (0.4523 ACRES)
PRE-IMPROVEMENT IMPERVIOUS AREA.....= 12,863 SF (0.2953 ACRES)
POST-IMPROVEMENT IMPERVIOUS AREA...= 11,050 SF (0.2537 ACRES)
DECREASED IMPERVIOUS AREA.....= -1,813 SF (-0.0412 ACRES)

SOILS INFORMATION:

THE FOLLOWING SOILS ARE FOUND ON SITE (SEE SOILS MAP ON SHEET C031.1 FOR LOCATION)

SOIL#:	SOIL NAME:	HYDROLOGIC GROUP:	ERODABILITY:
10C	URBAN LAND-GLENELG COMPLEX	B	N/A

FLOODPLAIN AND RESOURCE PROTECTION AREA (RPA):

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

EROSION & SEDIMENT CONTROL PROJECT PHASING

1. **PHASE I:**
   - a. PRE-CONSTRUCTION MEETING WITH THE PROJECT OFFICER, CONTRACTOR, COUNTY STORMWATER INSPECTOR, COUNTY INFRASTRUCTURE INSPECTOR AND URBAN FORESTER.
   - b. INSTALL THE TEMPORARY CONSTRUCTION ENTRANCE (IF NEEDED) IN THE LOCATION SHOWN ON THE E&S PHASE I PLAN. MUD AND DEBRIS SHALL BE WASHED FROM ALL TRUCKS EXISTING THE SITE.
   - c. INSTALL PERIMETER TREE DEMARCATION FENCING IN THE FORM OF TREE PROTECTION FENCE (TP) AS SHOWN ON E&S PHASE I PLAN
   - d. CONTACT ARLINGTON COUNTY PROJECT OFFICER FOR A PERIMETER INSPECTION PRIOR TO CLEARING THE REMAINDER OF THE SITE IN ORDER TO OBTAIN PHASE II GRADING PERMIT.
   - e. CLEAR THE SITE TO THE LIMITS AS SHOWN ON THE CONSTRUCTION PLANS.
2. **PHASE II:**
   - a. BEGIN PROP CATCH BASIN CONSTRUCTION. INSTALL CATCH BASIN P1 AND PROP 15"RCP BETWEEN P1 AND EX. MH26259. INSTALL CATCH BASIN P2 (DOGHOUSE) BETWEEN EX. CATCH BASIN 8941 AND EX. MANHOLE 8955.
   - b. CONSTRUCTION WILL OCCUR IN SUB-PHASES (AA, A, B, C, D, E, F, G, H, AND I) BASED ON DIRECTION ON SHEETS C121.1 AND C121.2 RELATED TO MAINTENANCE OF TRAFFIC. INLET PROTECTIONS SHOULD ONLY BE IN PLACE WHEN WORKING ON EACH SUB-PHASE. AT THE END OF EACH SUB-PHASE, THE CONTRACTOR MUST PLACE PERMANENT SEED AND STABILIZE THE UTILITY STRIP OR OTHER PROPOSED GRASS AREAS, BEFORE MOVING TO THE NEXT SUB-PHASE.
   - c. 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. TEMPORARY CONSTRUCTION ENTRANCE - VESCH 3.02
  - a.a. A TEMPORARY CONSTRUCTION ENTRANCE WITH A WASH RACK SHALL BE INSTALLED AT THE EXISTING ACCESS POINT TO THE SITE. DURING MUDDY CONDITIONS, DRIVERS OF CONSTRUCTION VEHICLES WILL BE REQUIRED TO WASH THEIR WHEELS BEFORE RE-ENTERING THE LOCAL ROADWAYS.
  - a.b. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC WASHING OF THE MATS AND/OR REPLACEMENT OF WOOD CHIPS AS NECESSARY.
  - a.c. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.
  - a.d. THE USE OF WATER TRUCKS TO REMOVE MATERIALS DROPPED, WASHED, OR TRACKED INTO ROADWAYS WILL NOT BE PERMITTED UNDER ANY CIRCUMSTANCES.
- b. SILT FENCE - VESCH 3.05
  - b.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.
  - b.b. SILT FENCES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
  - b.c. CLOSE ATTENTION SHALL BE PAID TO THE REPAIR OF DAMAGED SILT FENCE RESULTING FROM UNDERCUTTING.
  - b.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.
  - b.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.
  - b.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.
- c. TEMPORARY DIVERSION DIKE - VESCH 3.09
  - c.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.
  - c.b. THE STRUCTURES SHALL BE INSPECTED AFTER EACH RAIN EVENT AND REPAIRS SHALL BE MADE AS NECESSARY.
- d. STORM DRAIN INLET PROTECTION - VESCH 3.07
  - d.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.
  - d.b. THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN EVENT AND REPAIRS SHALL BE MADE AS NECESSARY.
  - d.c. STRUCTURES SHALL BE REMOVED AND THE AREA STABILIZED WHEN THE REMAINING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.
- e. DEWATERING STRUCTURE - VESCH 3.26
  - e.a. SEDIMENT LADEN OR TURBID WATER SHALL BE FILTERED, SETTLED OR SIMILARLY TREATED PRIOR TO DISCHARGE.
  - e.b. THE FILTERING DEVICES MUST BE INSPECTED FREQUENTLY AND REPAIRED OR REPLACED ONCE THE SEDIMENT BUILD-UP PREVENTS THE STRUCTURE FROM FUNCTIONING AS DESIGNED.
  - e.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.
- f. TREE PROTECTION - VESCH 3.38
  - f.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:
    - f.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.
    - f.a.b. REPAIR OF DAMAGE:
      - f.a.A.a. ANY DAMAGE TO THE CROWN, TRUNK, OR ROOT SYSTEM OF ANY TREE RETAINED ON THE SITE SHALL BE REPAIRED IMMEDIATELY.
      - f.a.A.b. WHENEVER MAJOR ROOT OR BARK DAMAGE OCCURS, REMOVE SOME FOLIAGE TO REDUCE THE DEMAND FOR WATER AND NUTRIENTS.
      - f.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.
      - f.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.
      - f.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.
      - f.a.A.f. CARE FOR SERIOUS INJURIES SHALL BE PRESCRIBED BY A FORESTER OR A TREE SPECIALIST.
  - f.b. FERTILIZATION: BROADLEAF TREES THAT HAVE BEEN STRESSED OR DAMAGED SHALL RECEIVE A HEAVY APPLICATION OF FERTILIZER TO AID THEIR RECOVERY.
    - f.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.
    - f.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.
    - f.b.c. FERTILIZER SHALL BE APPLIED USING APPROVED FERTILIZATION METHODS AND EQUIPMENT.
    - f.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.

PRE-STORM EROSION & SEDIMENTATION CHECKLIST:

PER GENERAL EROSION AND SEDIMENT CONTROL 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 EROSION AND SEDIMENT CONTROL PLAN. EROSION AND SEDIMENT CONTROL 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.

1. PERIMETER CONTROLS
   - a. SILT FENCE SHALL BE CHECKED FOR UNDERMINING, HOLES, OR DETERIORATION OF THE FABRIC. FENCING SHALL BE REPLACED IMMEDIATELY IF THE FABRIC IS DAMAGED OR WON. SILT FENCE MUST BE TRENCHED INTO THE GROUND PER STATE SPECIFICATIONS (VESCH STD & SPEC 3.09).
   - b. WOODEN STAKES OR STEEL POSTS SHALL BE PROPERLY SECURED UPRIGHT INTO THE GROUND. DAMAGED POSTS OR STAKES MUST BE REPLACED.
   - c. SEDIMENT THAT HAS ACCUMULATED AGAINST THE SILT FENCE SHALL BE REMOVED. ACCUMULATED SEDIMENT MUST BE REMOVED WHEN THE LEVEL REACHES ONE-HALF THE HEIGHT OF THE FENCING.
   - d. HAY BALES OR A STONE BERM SHALL BE PLACED ACROSS THE CONSTRUCTION ENTRANCE TO PREVENT SEDIMENT FROM LEAVING THE CONSTRUCTION SITE.
2. EXPOSED SLOPES AND SOIL
   - a. 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.
   - b. 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.
   - c. 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.
   - d. 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.
3. STOCKPILES
   - a. 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 SHALL BE PLACED ALONG THE PERIMETER OF THE STOCKPILE (DOWNHILL SIDE).
4. INLET PROTECTION
   - a. 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.

ARLINGTON VIRGINIA

Approved: 9/13/2023
Subject to field inspection
LDAP23-00060

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
GINO SQUARCIAFICO
Lic. No. 17288
06/30/2023
PROFESSIONAL ENGINEER

APPROVALS DATE

QUALITY CONTROL ENGINEER
CONSTRUCTION MANAGEMENT SUPERVISOR
WATER, SEWER, STREETS BUREAU CHIEF
ENGINEERING BUREAU CHIEF
PROJECT MANAGER

REVISIONS DATE

15TH STREET N
Z313
N INGLEWOOD ST TO N KENILWORTH ST

EROSION AND SEDIMENT CONTROL NOTES

DESIGNED: V ROLLAMAS
DRAWN: V ROLLAMAS
CHECKED: G SQUARCIAFICO

PLOTTED: AUGUST 31 2023

SCALE:

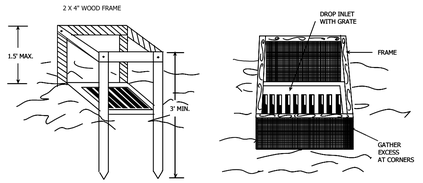
N/A

C032.1

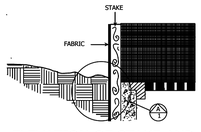
FILENAME: Z313-220-E_AND_S_PLAN.DWG PATH: Q:\DATA

REVISED ON 1/24/2022

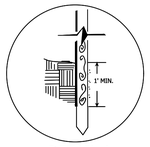
SILT FENCE DROP INLET PROTECTION



PERSPECTIVE VIEWS



ELEVATION OF STAKE AND FABRIC ORIENTATION



DETAIL A

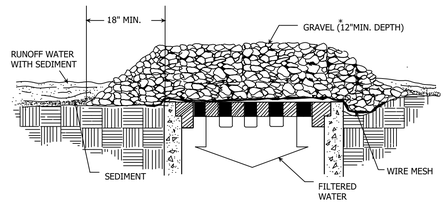
SPECIFIC APPLICATION

THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE THE INLET DRAINS A RELATIVELY FLAT AREA (SLOPE NO GREATER THAN 5%) WHERE THE INLET SHEET OR OVERLAND FLOWS (NOT EXCEEDING 1 C.F.S.) ARE TYPICAL. THE METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS, SUCH AS IN STREET OR HIGHWAY MEDIANS.

SOURCE: N.C. Erosion and Sediment Control Planning and Design Manual, 1988

PLATE 3.07-1

GRAVEL AND WIRE MESH DROP INLET SEDIMENT FILTER



SPECIFIC APPLICATION

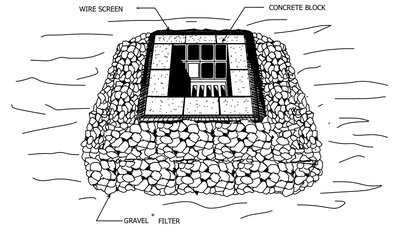
THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE HEAVY CONCENTRATED FLOWS ARE EXPECTED BUT NOT WHERE PONDING AROUND THE STRUCTURE MIGHT CAUSE EXCESSIVE INCONVENIENCE OR DAMAGE TO ADJACENT STRUCTURES AND UNPROTECTED AREAS.

* GRAVEL SHALL BE VDOT #3, #357 OR #5 COARSE AGGREGATE.

SOURCE: VA. DSWC

PLATE. 3.07-2

BLOCK AND GRAVEL DROP INLET SEDIMENT FILTER



SPECIFIC APPLICATION

THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE HEAVY FLOWS ARE EXPECTED AND WHERE AN OVERFLOW CAPACITY IS NECESSARY TO PREVENT EXCESSIVE PONDING AROUND THE STRUCTURE.

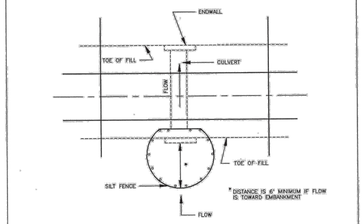
* GRAVEL SHALL BE VDOT #3, #357 OR #5 COARSE AGGREGATE.

SOURCE: VA. DSWC

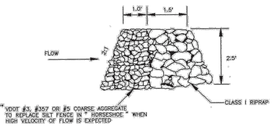
PLATE. 3.07-3

1992 3.08

SILT FENCE CULVERT INLET PROTECTION



OPTIONAL STONE COMBINATION **



** VDOT #3, #357 OR #5 COARSE AGGREGATE TO REPLACE SILT FENCE IN * WHERESHOE * WHEN HIGH VELOCITY OF FLOW IS EXPECTED

Source: Adapted from VDOT Standard Sheets and Va. DSWC

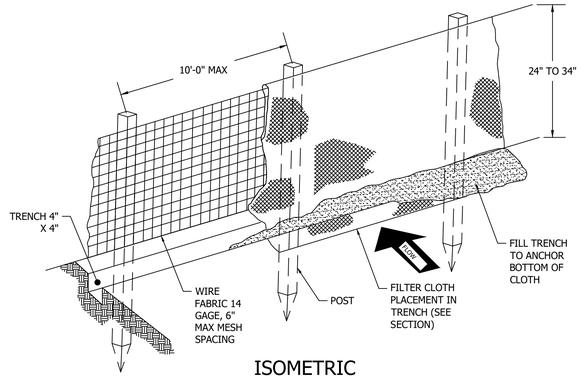
Plate 3.08-1

III - 49

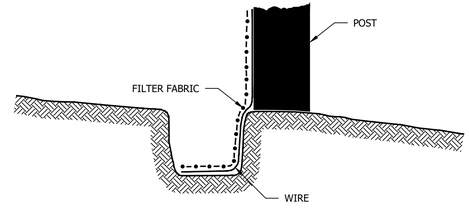
MODIFIED-VESCH 3.05

SILT FENCE

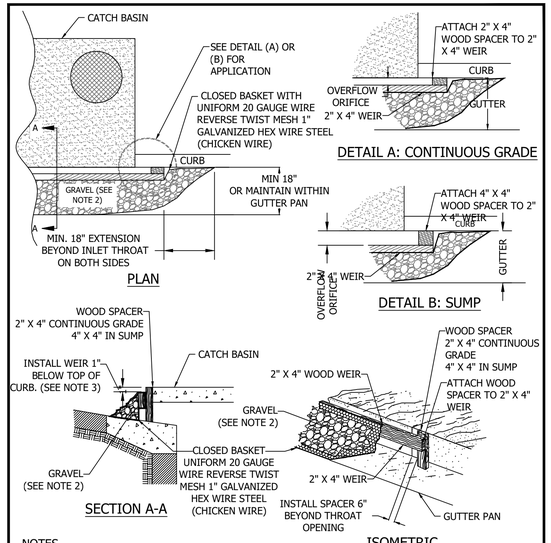
NOT TO SCALE



ISOMETRIC



SECTION



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 COUNTY, VIRGINIA DEPARTMENT OF ENVIRONMENTAL SERVICES	DRAWING NO. 3.07-7 (ACG)

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. UPON APPROVAL OF THE COUNTY INSPECTOR, MECHANICAL SEDIMENT CONTROLS SHALL BE REMOVED AND THE GROUND PERMANENTLY STABILIZED WITH VEGETATION WITHIN 30 DAYS.

ARLINGTON VIRGINIA

Approved: 9/13/2023
Subject to field inspection
LDAP23-00060

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
GINO SQUARCIAFICO
No. 036288
06/30/2023
PROFESSIONAL ENGINEER

APPROVALS	DATE
QUALITY CONTROL ENGINEER	
CONSTRUCTION MANAGEMENT SUPERVISOR	
WATER, SEWER, STREETS BUREAU CHIEF	
ENGINEERING BUREAU CHIEF	
PROJECT MANAGER	

REVISIONS	DATE

15TH STREET N
Z313
N INGLEWOOD ST TO N KENILWORTH ST

EROSION AND SEDIMENT CONTROL NOTES AND DETAILS

DESIGNED: V ROLLAMAS
DRAWN: V ROLLAMAS
CHECKED: G SQUARCIAFICO

PLOTTED: AUGUST 31 2023

SCALE:

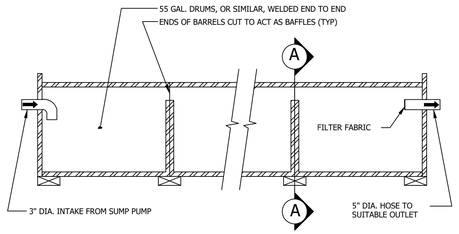
AS SHOWN

C032.2

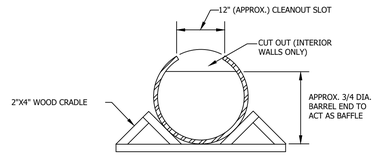
FILENAME: Z313-220-E_AND_S_PLAN.DWG PATH: Q:\DATA\Z313\DESIGN\CAD\ACTIVE PLOTTED BY: VROLLAMAS

REVISED ON 1/24/2022

PORTABLE SEDIMENT TANK



ELEVATION

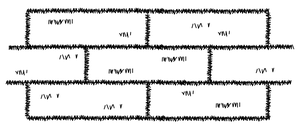


CROSS-SECTION A-A

SOURCE: USDA - SCS

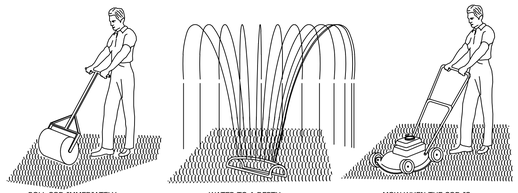
PLATE: 3.26-1

SODDING



LAY SOD IN A STAGGERED PATTERN. BUTT THE STRIPS TIGHTLY AGAINST EACH OTHER. DO NOT LEAVE SPACES AND DO NOT OVERLAP. A SHARPENED MASON'S TROWEL IS A HANDY TOOL FOR TUCKING DOWN THE ENDS AND TRIMMING PIECES.

BUTTING - ANGLED ENDS CAUSED BY THE AUTO-MATIC SOD CUTTER MUST BE MATCHED CORRECTLY.

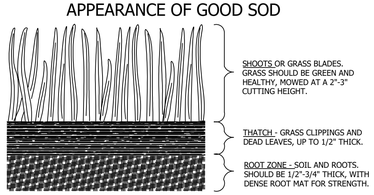


ROLL SOD IMMEDIATELY TO ACHIEVE FIRM CONTACT WITH THE SOIL.

WATER TO A DEPTH OF 4" AS NEEDED. WATER WELL AS SOON AS THE SOD IS LAID.

MOW WHEN THE SOD IS ESTABLISHED - IN 2-3 WEEKS. SET THE MOWER HIGH (2"-3").

APPEARANCE OF GOOD SOD



SHOOTS OR GRASS BLADES. GRASS SHOULD BE GREEN AND HEALTHY, MOWED AT A 2"-3" CUTTING HEIGHT.

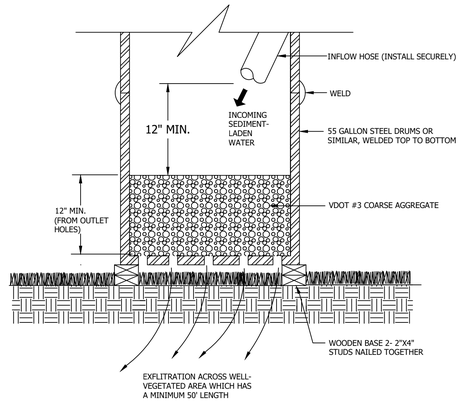
THATCH - GRASS CLIPPINGS AND DEAD LEAVES, UP TO 1/2" THICK.

ROOT ZONE - SOIL AND ROOTS. SHOULD BE 1/2"-3/4" THICK, WITH DENSE ROOT MAT FOR STRENGTH.

SOURCE: VA. DSWC

PLATE: 3.33-1

FILTER BOX

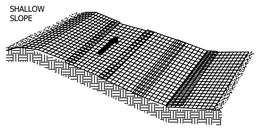


ELEVATION VIEW

SOURCE: VA. DSWC

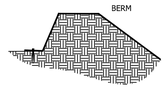
PLATE: 3.26-2

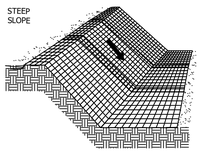
TYPICAL ORIENTATION OF TREATMENT - 1 (SOIL STABILIZATION BLANKET)



ON SHALLOW SLOPES, STRIPS OF NETTING PROTECTIVE COVERINGS MAY BE APPLIED ACROSS THE SLOPE.

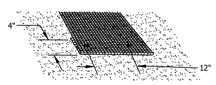
WHERE THERE IS A BERM AT THE TOP OF THE SLOPE, BRING THE MATERIAL OVER THE BERM AND ANCHOR IT BEHIND THE BERM.

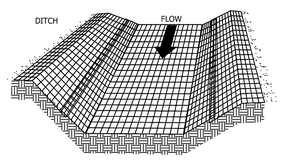




ON STEEP SLOPES, APPLY PROTECTIVE COVERING PARALLEL TO THE DIRECTION OF FLOW AND ANCHOR SECURELY.

BRING MATERIAL DOWN TO A LEVEL AREA BEFORE TERMINATING THE INSTALLATION. TURN THE END UNDER 4" AND STAPLE AT 12" INTERVALS.





IN DITCHES, APPLY PROTECTIVE COVERING PARALLEL TO THE DIRECTION OF FLOW. USE CHECK SLOTS AS REQUIRED. AVOID JOINING MATERIAL IN THE CENTER OF THE DITCH IF AT ALL POSSIBLE.

SOURCE: ADAPTED FROM LUDLOW PRODUCTS BROCHURE

PLATE: 3.36-1

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 (lolium multi-florum) & Cereal (Winter) Rye (Secale cereale)	50 -100 (lbs/acre)
Feb. 16 - Apr. 30	Annual Ryegrass (lolium 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-D
(Revised June 2003)
PERMANENT SEEDING SPECIFICATIONS FOR PIEDMONT AREA

SEED[1]		
LAND USE	**SPECIES**	**APPLICATION PER ACRE**
Minimum Care Lawn (Commercial or Residential)	Tall Fescue[1] Perennial Ryegrass Kentucky Bluegrass[1]	95-100% 0-5% 0-5% TOTAL: 175-200 lbs.
High-Maintenance Lawn	Tall Fescue[1]	TOTAL: 200-250 lbs.
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] Red Top Grass or Creeping Red Fescue Seasonal Nurse Crop[2] Crownvetch[3]	108 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 16th - April	Annual Rye
May 1st - August 15th	Foxtail Millet
August 16th - October	Annual Rye
November - February 15th	Winter Rye

3 - Substitute Sericea lespedeza for Crownvetch east of Farmville, VA (May through September use hulled seed, all other periods, use unhulled Sericea). If Flatpea is used, increase rate to 30 lbs./acre. If Weeping Lovegrass is used, include in any slope or low maintenance mixture during warmer seeding periods, increase to 30 -40

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

GENERAL NOTES :

i. Contractor to contact the Arlington Forester to schedule a pre-construction inspection of tree protection measures before any work near the critical root zones of trees. To schedule the pre-construction meeting call 703-228-1863.

ii. Contractor to protect trees per the plan according to the Arlington County DPR Design Standard Detail 02231.1

iii. Contractor to root prune trees per the plan according to the Arlington County DPR Design Standard Detail 02231.5, where called out on the plan.

iv. 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.

v. Contractor to prepare tree planting strips for the replacement trees according to Arlington County DPR Design Standard Detail 02930.4a and 02930.4b.

vi. Contractor to prepare street tree planting pits according to the Arlington County DPR Design Standard Detail 02930.3a, 02930.3b, and 02930.11c

vii. Contractor to plant the trees according to Arlington County DPR Design Standard Detail 02930.1 (on flat land) or 02930.2 (on slopes)

ARLINGTON VIRGINIA

Approved: 9/13/2023
Subject to field inspection
LDAP23-00060

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
GINO SQUARCIAFICO
No. 042388
06/30/2023
PROFESSIONAL ENGINEER

APPROVALS DATE

QUALITY CONTROL ENGINEER

CONSTRUCTION MANAGEMENT SUPERVISOR

WATER, SEWER, STREETS BUREAU CHIEF

ENGINEERING BUREAU CHIEF

PROJECT MANAGER

REVISIONS DATE

15TH STREET N
Z313
N INGLEWOOD ST TO N KENILWORTH ST

EROSION AND SEDIMENT CONTROL NOTES AND DETAILS 1

DESIGNED: V ROLLAMAS
DRAWN: V ROLLAMAS
CHECKED: G SQUARCIAFICO

PLOTTED: AUGUST 31 2023

SCALE:

AS SHOWN

C032.3

FILENAME: Z313-220-E_AND_S_PLAN.DWG PATH: Q:\DATA\Z313\DESIGN\CAD\ACTIVE PLOTTED BY: VROLLAMAS

REVISED ON 1/24/2022

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: Z313 15TH STREET N
Date: 13-Apr-22
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)* → 0.4523

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):	0.0711

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

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		0.1570			0.1570
Impervious Cover (acres)		0.2953			0.2953
					0.4523

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		0.1986			0.1986
Impervious Cover (acres)		0.2537			0.2537
Area Check	OK.	OK.	OK.	OK.	0.4523

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)	0.1570	0.1570
Weighted Rv(turf)	0.2000	0.2000
% Managed Turf	35%	35%
Impervious Cover (acres)	0.2953	0.2953
Rv(impervious)	0.9500	0.9500
% Impervious	65%	65%
Total Site Area (acres)	**0.4523**	**0.4523**
Site Rv	**0.6897**	**0.6897**

Treatment Volume and Nutrient Load

Pre-ReDevelopment Treatment Volume (acre-ft)	0.0260	0.0260
Pre-ReDevelopment Treatment Volume (cubic feet)	1,132.3028	1,132.3028
Pre-ReDevelopment TP Load (lb/yr)	**0.7114**	**0.7114**
Pre-ReDevelopment TP Load per acre (lb/acre/yr)	1.5700	1.5700
Baseline TP Load (lb/yr) **(0.41 lbs/acre/yr** applied to pre-redevelopment area excluding pervious land proposed for new impervious cover)	*0.1854*	

[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)	0.1986
Weighted Rv (turf)	0.2000
% Managed Turf	44%
Impervious Cover (acres)	0.2537
Rv(impervious)	0.9500
% Impervious	56%
Final Site Area (acres)	**0.4523**
Final Post Dev Site Rv	**0.6207**

Land Cover Summary-Post	
Post-ReDevelopment	
Forest/Open Space Cover (acres)	0.0000
Weighted Rv(forest)	0.0000
% Forest	0%
Managed Turf Cover (acres)	0.1986
Weighted Rv (turf)	0.2000
% Managed Turf	44%
ReDev. Impervious Cover (acres)	0.2537
Rv(impervious)	0.9500
% Impervious	56%
Total ReDev. Site Area (acres)	**0.4523**
ReDev Site Rv	**0.6207**

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

Treatment Volume and Nutrient Load

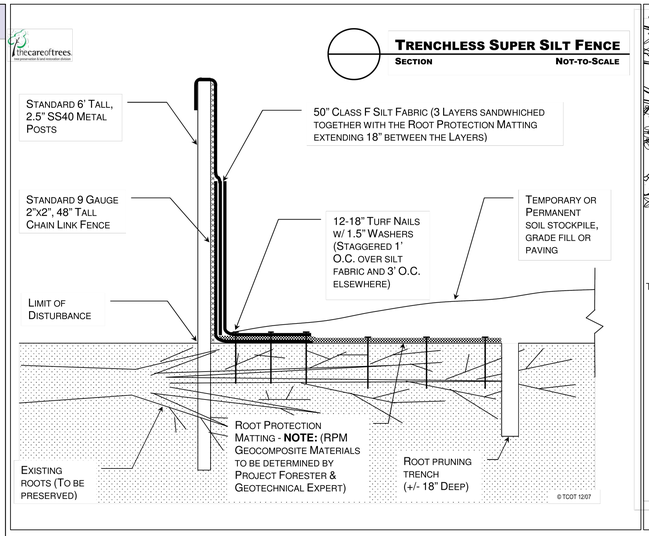
Final Post-Development Treatment Volume (acre-ft)	0.0234	**Post-ReDevelopment Treatment Volume (acre-ft)**	0.0234	**Post-Development Treatment Volume (acre-ft)**	--
Final Post-Development Treatment Volume (cubic feet)	1,018.9753	**Post-ReDevelopment Treatment Volume (cubic feet)**	1,018.9753	**Post-Development Treatment Volume (cubic feet)**	--
Final Post-Development TP Load (lb/yr)	**0.6402**	**Post-ReDevelopment Load (TP) (lb/yr)***	**0.6402**	**Post-Development TP Load (lb/yr)**	--
Final Post-Development TP Load per acre (lb/acre/yr)	1.4200	Post-ReDevelopment TP Load per acre (lb/acre/yr)	1.4200		
		Max. Reduction Required (Below Pre-ReDevelopment Load)	**20%**		
		TP Load Reduction Required for Redeveloped Area (lb/yr)	**0.0711**	**TP Load Reduction Required for New Impervious Area (lb/yr)**	**0**

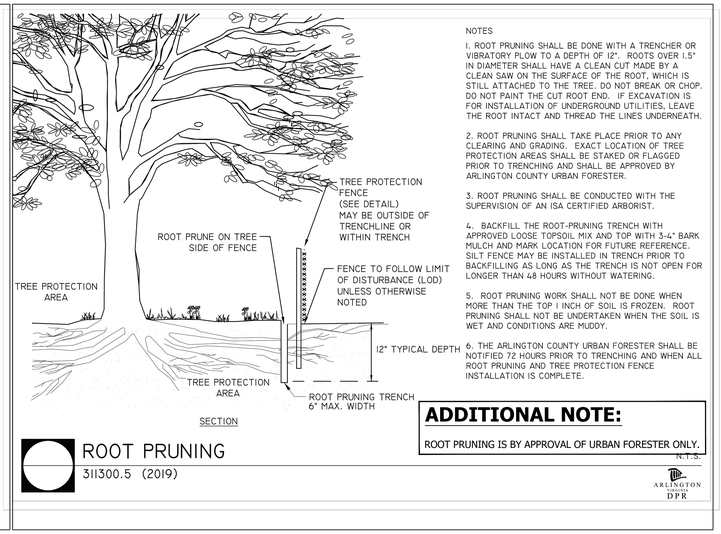
Post-Development Requirement for Site Area

TP Load Reduction Required (lb/yr)	0.0711
Linear Project TP Load Reduction Required (lb/yr):	0.0711

Nitrogen Loads (Informational Purposes Only)

Pre-ReDevelopment TN Load (lb/yr)	5.0894	Final Post-Development TN Load (Post-ReDevelopment & New Impervious) (lb/yr)	4.5800



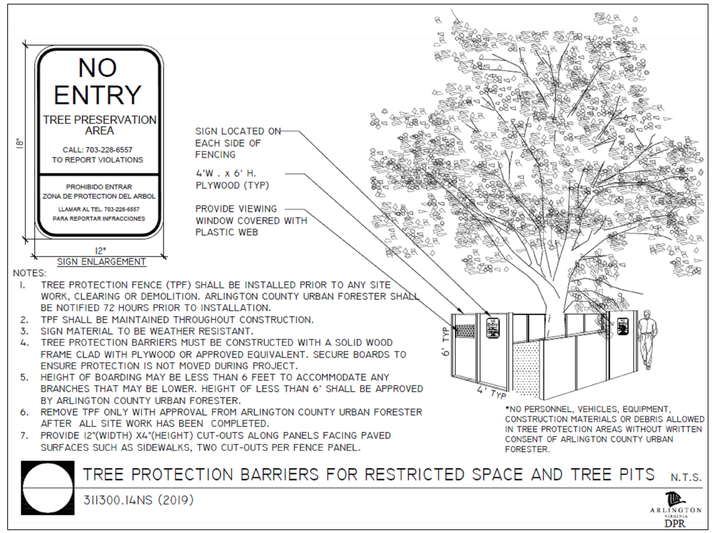


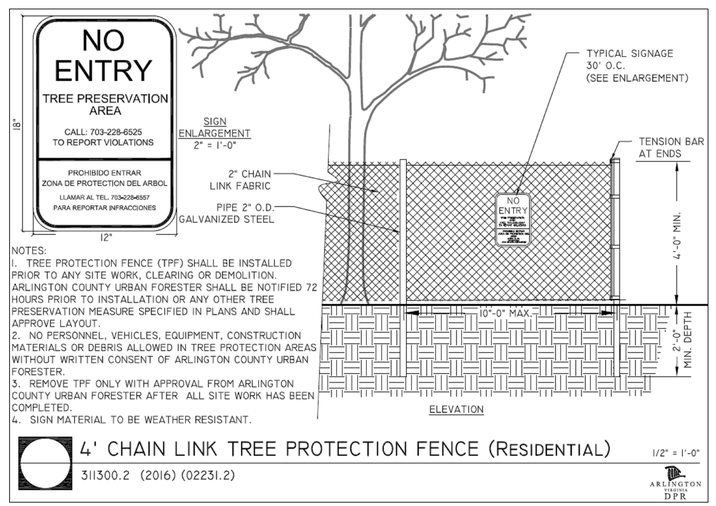
RUNOFF REDUCTION NOTES:

1. THE RUNOFF REDUCTION SPREADSHEET 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.
2. 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 TRACKS AS FOLLOWS CONSISTENT WITH 9VAC25-870-69.A.4, 9VAC25-870-76, AND 9VAC25-870-92:
3. POLLUTANT LOAD CHANGES WILL BE COMPUTED AS DESCRIBED IN SECTION 3.A OF THE ACTION PLAN.
4. RETROFIT OPPORTUNITIES WILL BE EVALUATED FOR EACH PROJECT, USING THE SCREENING AND SELECTION CRITERIA APPLIED AND DESCRIBED IN THE ADOPTED STORMWATER MASTER PLAN.
5. RETROFIT PROJECTS THAT MEET THE SCREENING CRITERIA AND ARE DETERMINED BY ARLINGTON TO BE FEASIBLE AND COST-EFFECTIVE WILL BE IMPLEMENTED WITH SPECIFIED LINEAR DEVELOPMENT PROJECTS. POLLUTANT LOAD REDUCTIONS FROM RETROFIT PROJECTS WILL BE COMPUTED AS DESCRIBED IN SECTION 5 OF THE ACTION PLAN.
6. 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.
7. 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 ACHIEVED 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.

15th St N, N Kenilworth St to N Inglewood St - Z313
Tree Survey Information Completed by : Hannah Lintner Landscape Architect
DATE

Tree #	Botanical Name	Common Name	Size (DBH in inches)	Critical Root Zone (CRZ in feet)	Species Rating	Condition %	Critical Root Zone Impacted (CRZ %)	Action	Total Score	Replacements
T30	*Acer griseum*	Paperbark maple	5"	8'	80%	68%			3	1
T24	*Acer griseum*	Paperbark maple	6"	8'	70%	70%	9%		3	
T25	*Ginkgo biloba*	Ginkgo	12"	12'	90%	99%	0%		11	
T26	*Acer griseum*	Paperbark maple	5"	8'	70%	69%	29%		2	
T2	*Quercus phellos*	Willow oak	23"	23'	80%	76%	4%		14	
T9	*Carya tomentosa*	Mockernut Hickory	20"	20'	75%	78%	4%		12	
T31	*Lagerstroemia indica*	Crape Myrtle	9"	9'	70%	67%			4	1
							Total Replacements:			**2**





Site Information - Revised 9/19/2017

Project SWM #	LDA Permit #	Disturbed Area (acres)	% Pre-Impervious	% Post-Impervious	Pre-Development TP load (lb/yr)	Post-Development TP load (lb/yr)	TP load reduction achieved (lb/yr)	Pre-Development TN load (lb/yr)	Post-Development TN load (lb/yr)	TN load reduction achieved (lb/yr)	Total Site Area (acres)	Pre-Forest Area (acres)	Pre-Turf Area (acres)	Pre-Impervious Area (acres)	Post-Forest Area (acres)	Post-Turf Area (acres)	Post-Impervious Area (acres)	Pre-Runoff Volume	Post-Runoff Volume	Runoff Volume Reducation Achieved	Site Latitude (Decimal Degrees)	Site Longitude (Decimal Degrees)	Anticipated Start Date
23-0068	LDA00060	0.4523	65.3	56.1	0.71	0.64	--	5.09	4.58	0.00	0.4523	0.0000	0.1570	0.2953	0.0000	0.1986	0.2537	1132.3028	1018.9753	0.0000	38.884972	-77.133523	4/13/2023

ARLINGTON VIRGINIA
Approved: 9/13/2023
Subject to field inspection
LDAP23-00060
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
GINO SQUARCIAFICO
No. 42698
06/30/2023
PROFESSIONAL ENGINEER

APPROVALS DATE

QUALITY CONTROL ENGINEER
CONSTRUCTION MANAGEMENT SUPERVISOR
WATER, SEWER, STREETS BUREAU CHIEF
ENGINEERING BUREAU CHIEF
PROJECT MANAGER

REVISIONS DATE

15TH STREET N
Z313
N INGLEWOOD ST TO N KENILWORTH ST

EROSION AND SEDIMENT CONTROL NOTES AND DETAILS 2

DESIGNED: V ROLLAMAS
DRAWN: V ROLLAMAS
CHECKED: G SQUARCIAFICO

PLOTTED: AUGUST 31 2023

SCALE:

AS SHOWN

C032.4

FILENAME: Z313-220-E_AND_S_PLAN.DWG PATH: Q:\DATA\Z313\DESIGN\CAD\ACTIVE PLOTTED BY: VROLLAMAS

REVISED ON 1/24/2022

STORMWATER POLLUTION PREVENTION PLAN (SWPPP)
Arlington County Template

PROJECT / SITE INFORMATION			
Project Name	**15TH STREET N**		
LDA Permit#	**LDAP23-00060**	**CGP#:**	
Project Address	**N Inglewood St to N Kenilworth St**		
Watershed	Chesapeake Bay / Potomac River / Four Mile Run, Upper Mainstem 2		
Latitude	N (-77.133523)		
Longitude	W (38.884972)		

CONSTRUCTION ACTIVITY OPERATOR INFORMATION	
Operator Name	Kamal Taktak
Company Name	Arlington County Government
Address	2100 Clarendon Blvd, Suite 813
Phone Number	703-228-7537
Email Address	ktaktak@arlingtonva.us
24-hour Emergency Contact Phone #	

CERTIFICATION STATEMENT

"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	**Gino Squarciafico**
Signature	
Title	**Design Team Supervisor – Department of Environmental Service**
Date	04/13/2023

Watershed / Impaired Waters / Total Maximum Daily Load (TMDL) Information
This project site is in the Chesapeake Bay and Potomac River watersheds; TMDLs have been established for sediment, nutrients (nitrogen, phosphorus), and PCBs. A TMDL has also been established for bacteria in the Four Mile Run Watershed. Measures will be taken to minimize the discharge of these pollutants of concern to the storm drain system and surface waters.

☒ Site inspections will be conducted every four (4) business days

☒ Permanent or temporary soil stabilization shall be applied to denuded areas within seven days after final grade is reached on any portion of the site.

☒ Nutrients shall be applied in accordance with manufacturer's recommendations or an approved nutrient management plan and shall not be applied during rainfall events, during windy conditions, or when rain is in the immediate 48-hour forecast.

☒ For projects located in the Potomac River Watershed, measures will be taken to prevent /minimize the discharge of PCBs from the project site. Proper sediment controls and stabilization measures will be implemented. Debris and waste materials generated during demolition activities shall be properly disposed in accordance with local, state, and federal regulations.

☒ Arlington County's TMDL Action Plan for Bacteria covers the entire County. Measures will be taken to prevent /minimize the discharge of bacteria from the project site. Pollution prevention controls focused on managing dumpsters, portable lavatories, and other wastes will be implemented (additional information is provided in Section 6.0 Potential Sources of Pollution & Pollution Prevention Practices).

1.0 SWPPP Documents Located Onsite & Available for Review

SWPPP Documents	Located Onsite & Available for Review?	
• LDA Permit	☒ Yes	
• Erosion & Sediment Control Plan (or agreement in lieu of)	☒ Yes	
• Pollution Prevention Plan	☒ Yes	
• Stormwater Management Plan	☒ Yes	☐ N/A
• Construction General Permit	☐ Yes	☐ N/A
• Notice of Coverage Letter	☐ Yes	☐ N/A
• Registration Statement	☐ Yes	☐ N/A

Required documents are kept in a centralized location on the project site (i.e. mail box or another container marked SWPPP). Permits are displayed on site.

2.0 Authorized Non-Stormwater Discharges

Types of Authorized Non-Stormwater Discharges	Likely Present at Project Site?	
• Uncontaminated / filtered excavation dewatering	☒ Yes	☐ NA
• Uncontaminated / filtered wash water	☐ Yes	☐ NA
• Potable water sources that do not create an in-stream impact	☐ Yes	☐ NA
• Pumped uncontaminated ground water	☐ Yes	☐ NA
• Landscape irrigation	☒ Yes	☐ NA
• Other _____	☐ Yes	☐ NA

5.0 Pollution Prevention Practices (PPP)

Pollution prevention practices (PPP) including daily good housekeeping efforts will be employed at the project site to prevent pollution discharges. Equipment, tools and materials needed for cleanup (brooms, shovels, vacuums, trash bags) will be readily available on site.

The following selected ("checked") activities will be conducted during this project and the corresponding pollution prevention controls and practices will be implemented. Specific controls and additional information are included as applicable.

(1) ☒ **Clearing, Grading, Excavating - Sediment Control / Stabilization (PPP1)**
- Erosion and sediment controls selected and/or described in Section 4.0 will be installed and maintained to protect resources and prevent sediment from leaving the site/LOD and entering the storm drain system or surface waters.
- Sediment tracking onto paved areas outside the LOD / construction entrances will be swept up
- Plastic sheeting, tarps, 2" deep straw cover, mulch and/or erosion matting will be used for temporary stabilization of exposed soil / slopes.
- The Pre-Storm Site Preparation Checklist will be followed and implemented.

(2) ☒ **Saw Cutting and Paving Operations (PPP2)**
- Slurry or other debris shall not enter a storm drain or surface water.
- Spill containment techniques such as the use of sand bags or booms around the immediate work area shall be used to contain and capture any non-stormwater discharges.
- Slurry from saw cutting operations must be contained, collected (vacuumed), and disposed of properly.

Description of temporary controls that will be used:

(3) ☒ **Concrete Operations - Washout and Waste Management (PPP3)**
Concrete wash out will be conducting in a leak-proof container or leak-proof settling basin that is designed so that no overflows can occur due to inadequate sizing or precipitation. Hardened concrete wastes shall be removed and disposed of in a manner consistent with the handling of other construction wastes.
- Concrete wash water shall not be discharged to a storm drain or surface water.
- Washout facilities will be sized appropriately for the needs of the project.
- Washout facilities will not be located near storm drains.
- Mixers and truck chutes will be washed out in designated contained washout areas
- No tracking from washout areas will occur.
- Plastic sheeting, boards, or tarps will be placed under concrete truck chutes during pouring
- Concrete washout areas will not be used for dewatering

The selected concrete wash out facility will be used:
- ☐ Washout Structure - Wood Planks
- ☐ Washout Structure - Straw Bales
- ☐ Prefabricated Containment System – Type: _____
- ☐ Other: _____

(4) ☒ **Washing Activities (PPP4)**
Wash water discharges to the storm drain system or surface waters are prohibited.
The following pollution prevention practices and controls will be implemented where applicable:
- Wash water or liquid wastes shall not enter a storm drain or surface waters.
- A suitable containment system for cleaning equipment such as a drum, prefabricated system, lined container, or portable wash pad will be provided.
- The wash / containment area will be sized appropriately for the needs of the project.
- The wash / containment area(s) will be situated away from storm drains.
- Containers will be monitored for leaks or damage. Containers will be replaced as needed.

Washout containment / controls for this project will include:

(5) ☒ **Dewatering Operations (PPP5)**
Construction site dewatering will not be discharged without the use of controls. Sediment laden or turbid water associated with dewatering shall be filtered, settled or similarly treated prior to discharge. The dewatering detail on approved ESC plan will be used. Dewatering operations will be monitored to ensure the controls being used are effective (clear water being discharged) and no clogging or overflow is occurring. Controls will be cleaned out or replaced when the control is no longer effective at removing sediment. Pumping will be conducted so that the rate of discharge does not overwhelm the dewatering system and allows for adequate settling and/or filtration.

Dewatering controls that will be used:
- ☐ Filter bag on stone bed with haybales
- ☐ Portable sediment tank
- ☐ Manufactured / customized system

(6) ☒ **Materials / Chemical Use and Storage (PPP6)**
Areas will be designated for material delivery and storage. These areas will be near construction entrances and not situated near storm drains. Lay downs areas will be shown on plans. Storage and containment areas will be adequately enclosed or covered. Additional pollution prevention practices and controls include:
- Stockpiled soil and other loose materials that can be washed away shall be covered with a tarp, plastic sheeting, or other stabilization matting when not being actively accessed. Covers must be properly secured / anchored down to prevent the covering from being blown off and exposing materials to rain. Controls such as hay bales or booms should be placed along the perimeter of stock pile (downhill side).
- Stockpiled materials located on the edge of roadways will not obstruct flow along the curb line (gutter). Adequate space between the curb and stockpile will be left to allow stormwater to flow along the curb line. Pipes or boards laid over curbs may be used to create the flow through space.
- Secondary containment will be used for storage of fuels, oil, grease, paint, solvents, sealers, cleaners, and other chemicals. Materials will be kept secured and covered when not in use.

(7) ☒ **Equipment and Vehicle Fueling / Maintenance (PPP7)**
Designated areas for refueling vehicles or equipment or perform maintenance will be located away from storm drains and surface waters. Additional pollution prevention practices and controls include:

- Vehicles and equipment will be inspected daily for leaks. Any leaks or spills will be addressed upon discovery.
- Containment measures will be used when conducting fueling (e.g. place fuel mats, spill pads, boards, or plastic sheeting on ground) to contain drips, leaks, spills.
- Fuel tank (s) will have containment.
- Fuel tanks and containers will be inspected daily for signs of damage.
- Employees will be instructed not to "top off" or overfill vehicles or equipment to prevent spills.
- Secondary containment and secure storage will be provided for fuel, oil, solvent and/or lubricants.
- Drip pans, sheeting, and/or absorbent pads will be placed under heavy equipment when not in use (i.e. overnight) to capture any potential leaks.

(8) ☒ **Waste Management (PPP8)**
Trash, waste, and construction debris will be managed and disposed of properly. Designated areas for trash and debris collection will be situated as far away from storm drains as possible. Additional pollution prevention practices and controls include:
- A sufficient number of waste containers will be kept on a site to handle the quantity of waste produced.
- Waste collection / pick up will be conducted as necessary to prevent overfilling.
- Containers will have lids or covers that can be used to cover open containers at the end of the work day and prior to rain events. Roll off containers will be kept covered when not being accessed. Lids and doors on dumpsters and/or / trash can will be kept closed.
- Waste containers will be checked frequently for damage / leaks. Any cleaning will be conducting using DRY methods. Waste containers will not be power washed or hosed out unless the wash water is collected and disposed of into the sanitary sewer system.
- Damaged containers / receptacles (leaking, cracked, corroded, or otherwise deteriorating) will be replaced.

(9) ☒ **Portable Lavatories (PPP9)**
Portable lavatory units will be properly situated and maintained to prevent pollution releases. Additional pollution prevention practices and controls include:
- Portable lavatories will be situated away from storm drains and surface waters.
- Portable lavatories will be kept level and have secondary containment (i.e. trays) if situated on paved surfaces.
- Units will be inspected for leaks or damage will be conducted frequently.
- Routine maintenance / cleaning will occur, and units will be replaced if damaged or leaking.

(10) ☒ **Nutrient Management / Fertilizer Application (PPP10)**
Fertilizer will be applied in accordance with manufacturer's recommendations. Fertilizer will not be applied during rainfall events or windy conditions, or when rain is forecasted. Fertilizer will be properly secured and stored under cover when not being used. Residual fertilizer on paved surfaces will be swept up.

7.0 Spill Prevention, Response, and Reporting
Spills and leaks will be cleaned up upon discovery using dry cleaning methods (placement of absorbent materials, sweeping, shoveling, bagging, proper disposal). Spills will not be hosed down unless the wash water is contained, collected and disposed of properly.

Spill kits will be kept on site. The spill kit shall be labeled, stocked, and readily accessible. **Employees will be informed of the location of the spill kit(s) and how to respond to and report spills.**

Spill kits should contain absorbent materials, pads, socks, plastic bags, and personal protective equipment (gloves, eye protection). Shovels/brooms should be accessible.

Location(s) of spill kit(s) on site:

1.)

2.)

3.)

Spill Response and Reporting:
- 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.
- Ensure the spill area is safe to enter and does not pose an immediate threat to health and safety
- Stop the spill source.
- Notify personnel in area of spill and potential dangers.
- Ask for assistance to block off area and help with cleanup efforts.
- Take measures to prevent a spill from spreading and/or entering storm drains (socks, booms, soil)
- Clean up spill using dry methods and dispose of materials in accordance with Safety Data Sheet specification and local, state, and federal regulations.
- Never flush or "hose down" a spill down into a storm drain.
- If spilled material has entered a storm drain or surface water; call the Fire Department (911)

Emergency Contacts:

• Arlington County Fire & Police	911 / 703-558-2222
• DES Water, Sewer, Streets 24-Hour Emergency	703-228-6555
• Washington Gas Emergency Line	703-750-1400
• VA Dept. of Emergency Management (24 hour)	804-674-2400

- Water or sewer breaks, or overflows will be reported to Arlington County Department of Environmental Services, Water, Sewer, Streets 24-Hour Emergency # 703-228-6555
- Leaking underground storage tanks will be reported to the Virginia Department of Environmental Quality Northern Regional Office, 703-583-3800 and the Arlington County Fire Prevention Office, 703-228-4644

ARLINGTON VIRGINIA
Approved: 9/13/2023
Subject to field inspection
LDAP23-00060

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
GINO SQUARCIAFICO
Lic. No. 039868
06/30/2023
PROFESSIONAL ENGINEER

APPROVALS DATE

QUALITY CONTROL ENGINEER

CONSTRUCTION MANAGEMENT SUPERVISOR

WATER, SEWER, STREETS BUREAU CHIEF

ENGINEERING BUREAU CHIEF

PROJECT MANAGER

REVISIONS DATE

15TH STREET N
Z313
N INGLEWOOD ST TO N KENILWORTH ST

STORMWATER POLLUTION PREVENTION PLAN

DESIGNED: V ROLLAMAS
DRAWN: V ROLLAMAS
CHECKED: G SQUARCIAFICO

PLOTTED: AUGUST 31 2023

SCALE:

N/A

C035.1

FILENAME: Z313-220-E_AND_S_PLAN.DWG PATH: Q:\DATA\Z313\DESIGN\CAD\ACTIVE PLOTTED BY: VROLLAMAS

REVISED ON 1/24/2022

STORMWATER POLLUTION PREVENTION PLAN

RLD Form

03-03-2023
Date

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

Re: Erosion and Sediment Control Permit Application for: 15TH STREET N

Permit #: _____

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:

- Reviewing the erosion and sedimentation control plan for the project.
- Walking the site prior to construction to identify critical areas.
- Conducting a pre-construction briefing with contractors to review the SWPPP, the limits of clearing and the required E&S controls and tree protection measures to be installed.
- Schedule a pre-construction meeting.
- Inspecting the site during construction to ensure that all E&S controls are functioning and are adequate to address erosion and sedimentation. Inspecting the site 48 hours after a runoff-generating storm.
- Ensuring temporary stabilization is applied within seven (7) days to areas that will remain undisturbed for longer than 14 days.

I may be reached at 703-228-3674 for any questions about this project or my execution of the duties of Responsible Land Disturber.

Sincerely,

Professional Registration (type and #): GINO SQUARCIAFICO - VA PE 0402043208

14

I certify that the above is true and accurate to the best of my knowledge.

Signature

Date

3 of 3

ARLINGTON VIRGINIA

Department of Environmental Services
DA Permit SWPPP Minimum Acceptance Criteria (MAC) Checklist

05/11/2018

Instructions: Complete this required Front Counter Minimum Acceptance Criteria (MAC) Checklist to ensure the intake of your plan upon submission at 1st submission. If applicable, also complete all attached MAC Checklists for requirements pertaining to the individual review of plan elements.

Project Name: 15TH STREET N

Address: 15TH STREET N - N INGLEWOOD ST TO N KENILWORTH ST | **Date: 04/13/2022**

General Items		yes	n/a	no	sheet
1	Completion of this Front Counter MAC Checklist and all applicable Plan Review MAC Checklists.	X			
2	Submit and sign the MAC Checklist with the civil engineering plan for first submittal only.	X			
3	Include a Cover Sheet with the following information	X			
a	Name of project	X			
b	Include the address, if known at the time of submission.	X			
c	Vicinity Map indicating the North arrow; label all streets	X			
d	Name, address, phone number and email of Contractor	X			
e	Name, address, phone number and email of Owner	X			
f	Name, address, phone number and email of Engineer	X			
g	Table of Contents/ Sheet Index	X			
5	Include an Existing Conditions Plan Sheet, Demolition Plan Sheet and Site Plan Sheet	X			
6	Include the following within the Plan, on applicable Plan Sheets	X			
a	Graphic Scale on ALL plan sheets				
b	North Arrow on ALL plan sheets	X			
c	Current Field Survey Topography (certified)	X			
d	Site Areas (Post Dedication and Post Vacation)				
e	Total site area of property in sq ft and acres	X			
f	Existing and Proposed Easements on an exhibit	X			
g	Real Property Identification Map Number, RPC Numbers	X			
h	Legends	X			
8	Engineer's Seal/ Signature - Signed and dated on all sheets	X			

Erosion and Sediment Control Plan		yes	n/a	no	sheet
1	Include the Following on Erosion and Sediment Control Plan Sheets	X			
a	E&S Control Plan and Site Plans	X			
b	E&S Control Narrative	X			
c	E&S Control practices detail drawing (dewatering device, etc..)	X			
d	E&S Control Plan Legend	X			
e	Virginia Erosion and Sediment Control Handbook (VESCH) specification numbers	X			

1 of 3

f	Blank Responsible Land Disturber Letter				
2	General E&S Control Notes and General Land Conservation Notes				
3	Landscape Conservation Plan with the following clearly indicated				
a	Determination of the critical root zone		X		
b	Tree protection fencing		X		
c	Signage				
d	Critical Root zone mitigation, such as root pruning, padding, or other root protection methods		X		
e	Note requiring county arborist inspection before any land disturbance activity		X		
f	Tree inventory of all trees larger than 3 inches DBH, either on site or with a critical root zone encroaching the limit of disturbance. This list will contain information on species, size, health, whether the tree is protected or not, and other issues, such as location in the RPA, disease concerns, or invasive species presence		X		
g	Tree canopy coverage calculation		X		
h	RPA delineation, if applicable		X		
i	For 4.1 site plans and public projects, a calculation of the tree replacement value of removed trees		X		

Stormwater Management Plan		YES	NO	N/A	sheet
1	Include the following on Stormwater Management Plan Sheets			X	
a	Runoff Reduction Spreadsheet			X	
b	Design details and reference of stormwater facilities listed in the Runoff Reduction Spreadsheet			X	
c	Facility detail, maintenance schedule, material specifications and construction inspection checklist for each stormwater facility proposed			X	
d	Stormwater Management Facility and Site Data Spreadsheet			X	
e	Drainage area boundary and runoff flow arrows			X	
f	Water Quantity Energy Balance Worksheet			X	
g	Waterproofing Note, if applicable			X	
h	Meet requirement for sheetflow and statement of no adverse impact to adjacent properties			X	
i	Indicate sump pump discharge location, tie into the public storm sewer system when possible.			X	
j	Indicate Floodplain boundary and floodplain study OR certification on plan that no floodplain is present			X	
k	Indicate Resource Protection Area (RPA) boundary on plan OR include certified note on plan that no RPA is present. If RPA is present, include Completed Water Quality Impact Assessment (WQIA) form with required elements. Include Completed Exception Request Form on plan (if required), and proposed RPA mitigation			X	
l	Blank Stormwater Facility Maintenance and Monitoring Agreement			X	
m	SWM# on the coversheet, once assigned after 1st review			X	

Pollution Prevention Plan					
1	Include the following on the Pollution Prevention Plan	X			
a	Standard notes from Stormwater Manual Section 2.4	X			
b	Authorized Non-Stormwater Discharge (Section 2.0), Potential Sources of Pollution & Pollution Prevention Practices (Section 5.0), and Spill Prevention & Response (Section 7.0) from SWPPP Template (Appendix B) of the Stormwater Manual	X			

Registration Statement for project with land disturbance equal to or greater than 1 acre

2 of 3

ARLINGTON VIRGINIA

Approved: 9/13/2023
Subject to field inspection
LDAP23-00060

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
GINO SQUARCIAFICO
Lic. No. 402043208
06/30/2023
PROFESSIONAL ENGINEER

APPROVALS DATE

QUALITY CONTROL ENGINEER

CONSTRUCTION MANAGEMENT SUPERVISOR

WATER, SEWER, STREETS BUREAU CHIEF

ENGINEERING BUREAU CHIEF

PROJECT MANAGER

REVISIONS DATE

15TH STREET N
Z313
N INGLEWOOD ST TO N KENILWORTH ST

STORMWATER POLLUTION PREVENTION PLAN 1

DESIGNED: V ROLLAMAS
DRAWN: V ROLLAMAS
CHECKED: G SQUARCIAFICO

PLOTTED: AUGUST 31 2023

SCALE:

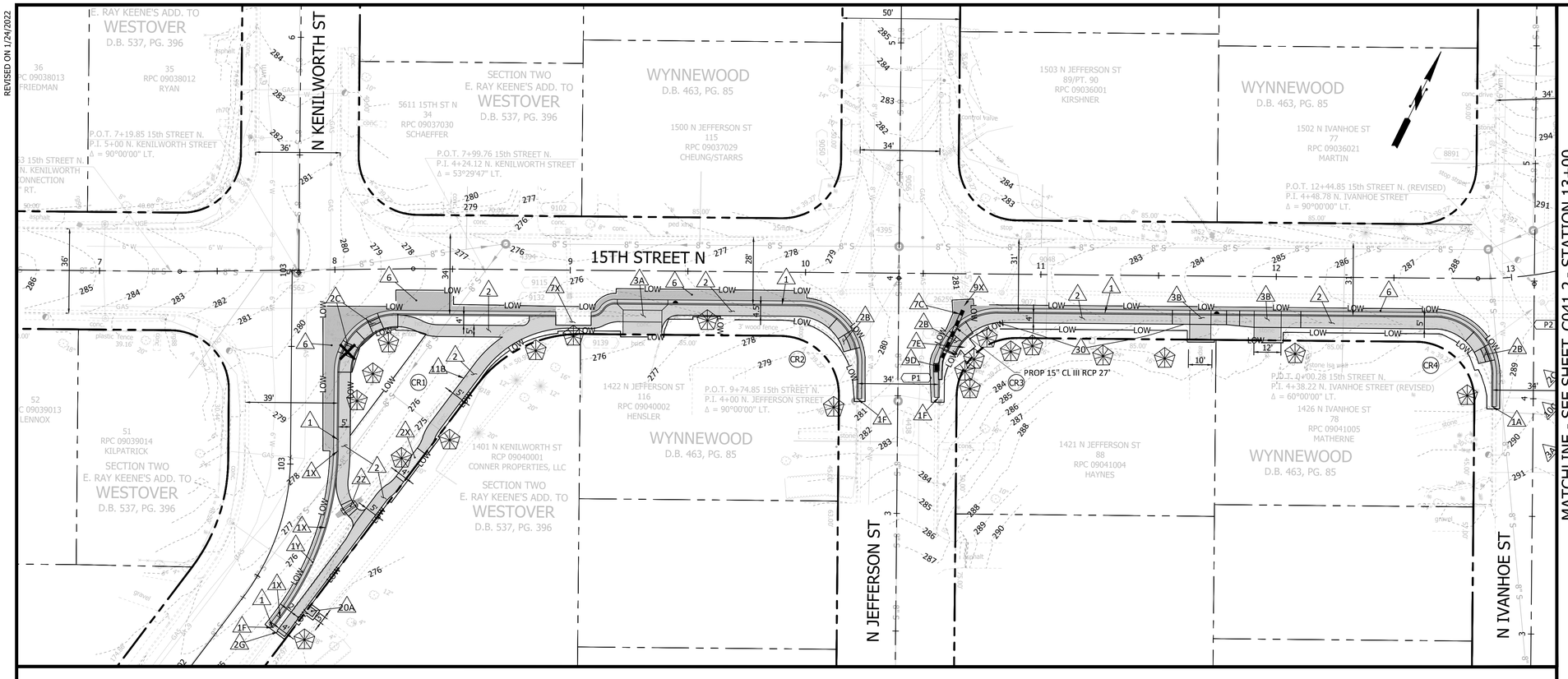
N/A

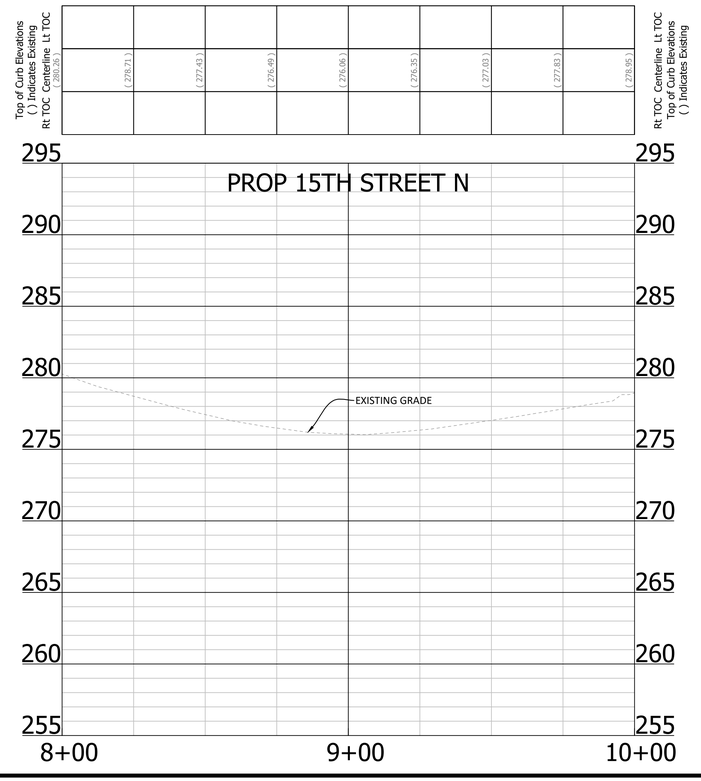
C035.2

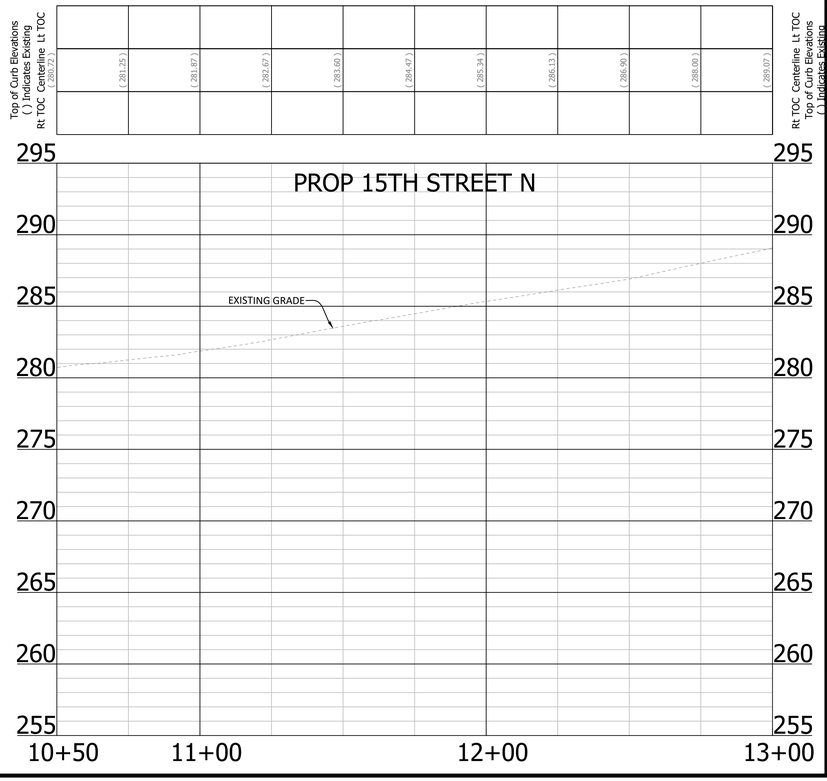
15TH STREET N Z313

FILENAME: Z313-220-E_AND_S_PLAN.DWG PATH: Q:\DATA\Z313\DESIGN\CAD\ACTIVE PLOTTED BY: VROLLAMAS

REVISED ON 1/24/2022







CONSTRUCTION NOTES

1. PROP CURB AND GUTTER (C-2) ARL STD (R-2.0) CONTRACTOR SHALL EXTEND EXISTING SUMP PUMP LINES AND ROOF LEADERS TO AND THROUGH THE PROPOSED CURB & GUTTER UTILIZING 4" DIAMETER SCHEDULE 40 PVC.
- 1A PROP HEADER CURB (C-3) ARL STD (R-2.0)
- 1F PROP CURB & GUTTER MATCH & MEET EXISTING CURB & GUTTER FLUSH AND ON GRADE
- 1X PROP MODIFIED 3" HIGH CURB AND GUTTER SEE SHEET C042.1 FOR EXTENT AND DETAILS
- 1Y PROP CURB CUT
- 2 PROP SIDEWALK ARL STD (R-2.0)
- 2B PROP MODIFIED RAMP (CG-12B) VDOT ROAD & BRIDGE STANDARDS (204.03) SEE CURB RAMP DETAIL SHEET # C042.1 & C042.2
- 2C PROP MODIFIED RAMP (CG-12C) VDOT ROAD & BRIDGE STANDARDS (204.04) SEE CURB RAMP DETAIL SHEET # C042.3
- 2G PROP SIDEWALK MATCH & MEET EXISTING SIDEWALK FLUSH AND ON GRADE
- 2L PROP BRICK LEADWALK TO MATCH AND MEET EXISTING
- 2X PROP "SUSPENDED SIDEWALK DETAIL" SEE SHEET # C002.1
- 2Z PROP "CULVERT PLAN" SEE SHEET # C002.1
- 3A PROP RESIDENTIAL CONCRETE DRIVEWAY ENTRANCE ARL STD (R-2.4A)
- 3B PROP RESIDENTIAL CONCRETE DRIVEWAY ENTRANCE MODIFIED ARL STD (R-2.4B) SEE SHEET # C042.2
- 3X PROP 6" THICK ASPHALT DRIVEWAY TIE-IN TO MATCH AND MEET EXISTING FLUSH AND ON GRADE
- 3Y PROP 6" THICK CONCRETE DRIVEWAY TIE-IN TO MATCH AND MEET EXISTING FLUSH AND ON GRADE
- 6 REPLACE EXISTING ASPHALT WITH 5" BM-25.0A AND 2" SM-9.5A
- 7A CONVERT EXISTING CATCH BASIN TO STORM MANHOLE
- 7B ADJUST EXISTING CATCH BASIN TOP TO PROPOSED GRADE PER ARL CONSTR SPEC 02500 - 3.4
- 7C CONNECT PROPOSED PIPE TO EXISTING STRUCTURE PER ARL STD & SPEC
- 7E ABANDON EXISTING STRUCTURE PER ARL CONSTR SPEC 02500 - 3.5
- 7X MATCH & MEET EXISTING STORM INLET, AND CURB & GUTTER (FLUSH AND ON GRADE) WITH PROPOSED SIDEWALK AND PROPOSED CURB AND GUTTER
- 8 PROP STANDARD CATCH BASIN, CB-2 (SAG) PER ARL STD (D-1.2) CONSTRUCT OVER EXISTING PIPE (DOGHOUSE)
- 9D PROP STANDARD CURB DROP INLET DI-2C, VDOT ROAD & BRIDGE STANDARDS (104.03)
- 9X ADJUST EXISTING MANHOLE TO PROP GRADE
- 10 RELOCATE EXISTING WATER METER AND INSTALL FRAME AND COVER PROVIDED BY COUNTY ARL STD (W-8.0 AND W-9.0)
- 10C ADJUST EXISTING WATER METER COVER TO PROP GRADE
- 11B EXISTING STREETLIGHT TO REMAIN IN PLACE
- 13X CAREFULLY REMOVE AND SALVAGE EXISTING BRICK UNITS FOR REUSE. REMOVE APPROXIMATELY 6.5' OF THE EXISTING BRICK WALL. TOOTH EXISTING BRICK TO ACCEPT REPURPOSED BRICK TO FINISH PROPOSED END FACE OF WALL.
- 20 PROP LEADWALK & 2 STEPS TO MEET & MATCH EXISTING WITH LIKE MATERIAL AND DESIGN PATTERN ARL STD (R-3.0 , R-3.2)
- 20A PROP LEADWALK TO MEET & MATCH EXISTING WITH LIKE MATERIAL AND DESIGN PATTERN
- 25 ADJUST EXISTING GAS VALVE COVER TO PROP GRADE
- 30 AIR EXCAVATION REQUIRED IN THE LIMITS SHOWN. COORDINATION WITH URBAN FORESTRY IS REQUIRED BEFORE, DURING , AND AFTER AIR EXCAVATION WORK IS COMPLETE

PROTECT EXISTING TREE DURING CONSTRUCTION WORK, ROOT PRUNE & HAND DIG AROUND TREE (VERIFY WITH COUNTY FORESTER , 703-228-6657).

TREE TO BE REMOVED

Approved: 9/13/2023
Subject to field inspection
LDAP23-00060

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
GINO SQUARCIAFICO
No. 19398
PROFESSIONAL ENGINEER
06/30/2023

APPROVALS	DATE
QUALITY CONTROL ENGINEER	
CONSTRUCTION MANAGEMENT SUPERVISOR	
WATER, SEWER, STREETS BUREAU CHIEF	
ENGINEERING BUREAU CHIEF	
PROJECT MANAGER	

REVISIONS	DATE

15TH STREET N
Z313
N INGLEWOOD ST TO N KENILWORTH ST

PLAN AND PROFILE STA 8+00 TO 13+00

DESIGNED: V. ROLLAMAS
DRAWN: V. ROLLAMAS
CHECKED: G SQUARCIAFICO

PLOTTED: AUGUST 31 2023

SCALE: 1"=25' = 1"=5'
0 5 10
VERT. SCALE
0 25 50
HORIZ. SCALE

C041.1

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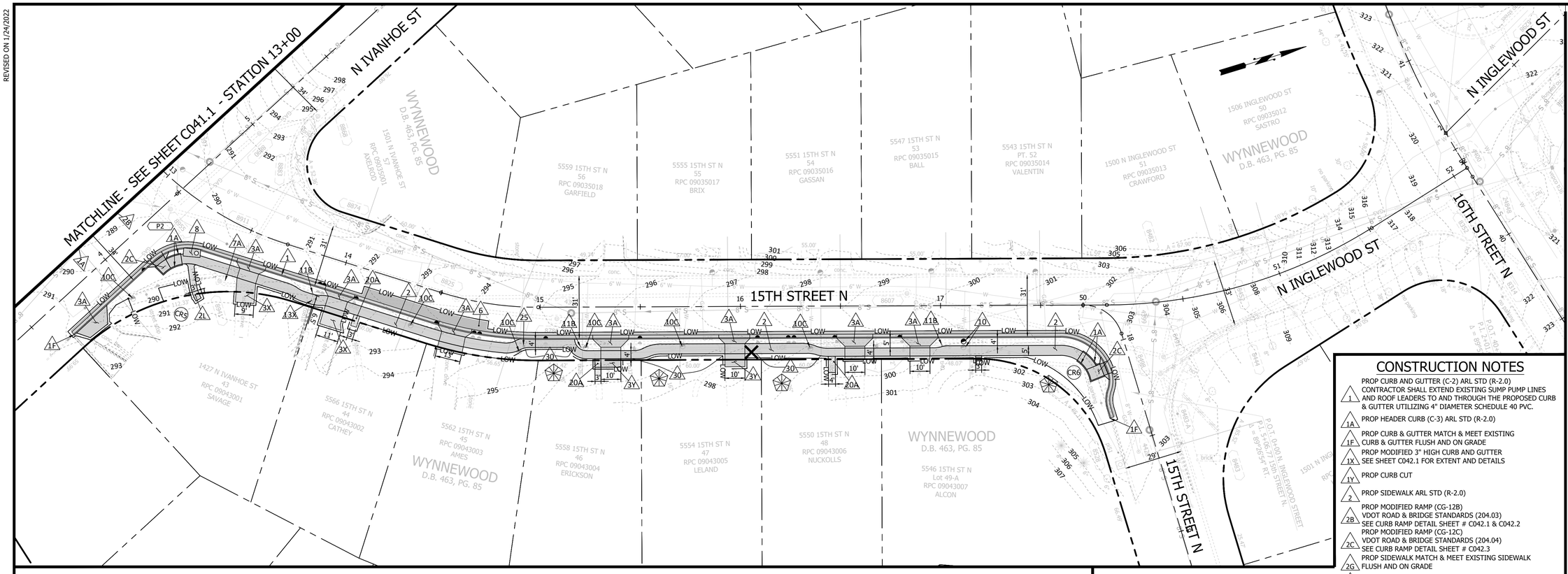
REVISED ON 1/24/2022



CONSTRUCTION NOTES

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TREE TO BE REMOVED

ARLINGTON VIRGINIA

Approved: 9/13/2023
Subject to field inspection
LDAP23-00060

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
GINO SQUARCIAFICO
No. 043288
06/30/2023
PROFESSIONAL ENGINEER

APPROVALS	DATE
QUALITY CONTROL ENGINEER	
CONSTRUCTION MANAGEMENT SUPERVISOR	
WATER, SEWER, STREETS BUREAU CHIEF	
ENGINEERING BUREAU CHIEF	
PROJECT MANAGER	

REVISIONS	DATE

15TH STREET N
Z313
N INGLEWOOD ST TO N KENILWORTH ST

PLAN AND PROFILE STA 13+00 TO 17+75

DESIGNED: V. ROLLAMAS
DRAWN: V. ROLLAMAS
CHECKED: G. SQUARCIAFICO

PLOTTED: AUGUST 31 2023

SCALE: 1"=25' , 1"=5'

0 5 10
VERT. SCALE
0 25 50
HORIZ. SCALE

C041.2

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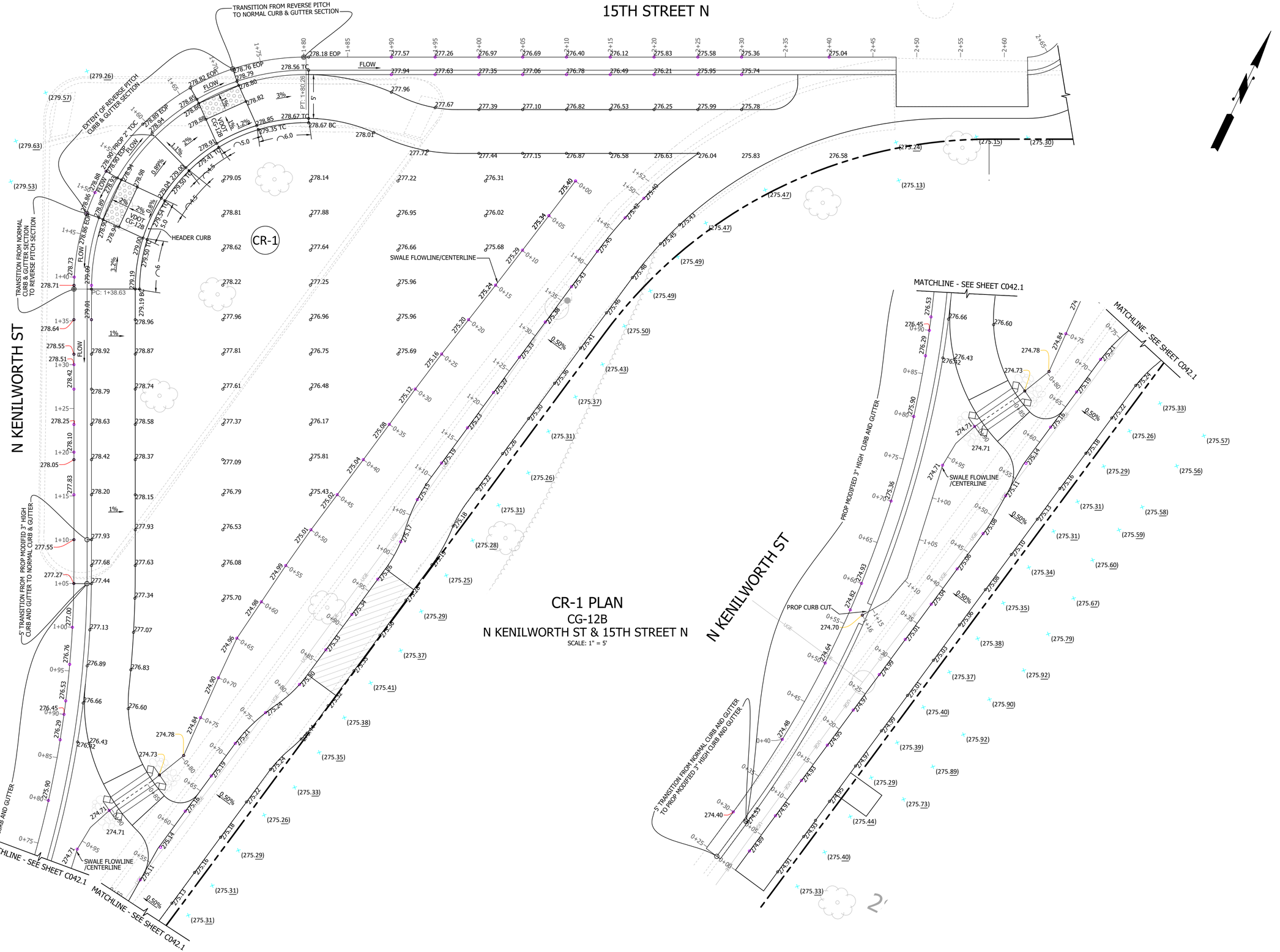
REVISED ON 1/24/2022

15TH STREET N



CR-1 PLAN

CG-12B

N KENILWORTH ST & 15TH STREET N

SCALE: 1" = 5'

ARLINGTON VIRGINIA

Approved: 9/13/2023
Subject to field inspection
LDAP23-00060

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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COMMONWEALTH OF VIRGINIA
GINO SQUARCIAFICO
No. 043588
06/30/2023
PROFESSIONAL ENGINEER

APPROVALS DATE

QUALITY CONTROL ENGINEER

CONSTRUCTION MANAGEMENT SUPERVISOR

WATER, SEWER, STREETS BUREAU CHIEF

ENGINEERING BUREAU CHIEF

PROJECT MANAGER

REVISIONS DATE

15TH STREET N
Z313
N INGLEWOOD ST TO N KENILWORTH ST

RAMP DETAILS CR-1

DESIGNED: V. ROLLAMAS
DRAWN: V. ROLLAMAS
CHECKED: G SQUARCIAFICO

PLOTTED: AUGUST 31 2023

SCALE:

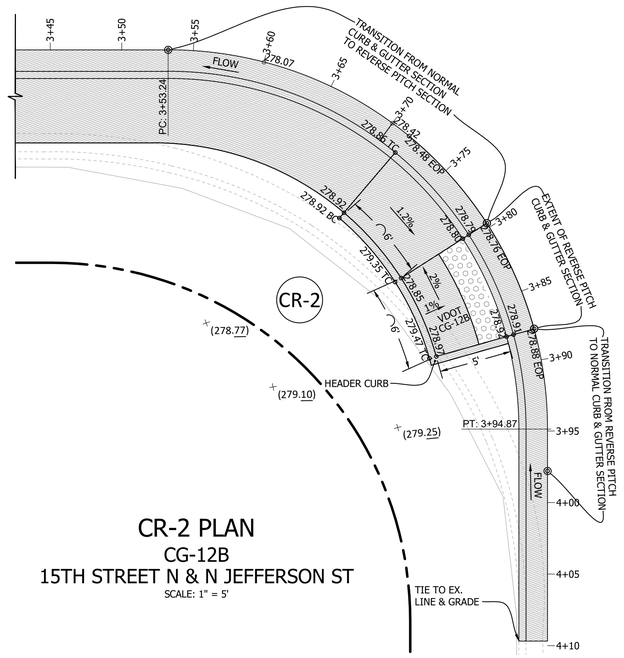
AS NOTED

C042.1

FILENAME: Z313-208-RAMP_DETAILS.DWG PATH: Q:\DATA\Z313\DESIGN\CAD\ACTIVE PLOTTED BY: VROLLAMAS

REVISED ON 1/24/2022

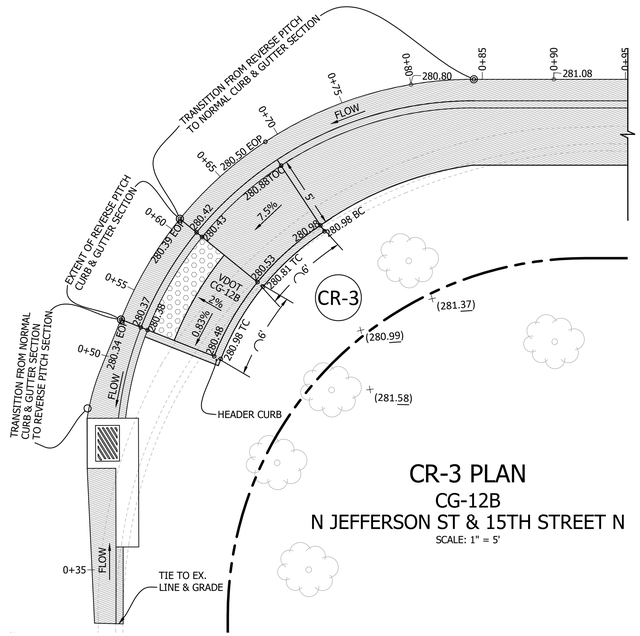
15TH STREET N



CR-2 PLAN
CG-12B
15TH STREET N & N JEFFERSON ST
SCALE: 1" = 5'

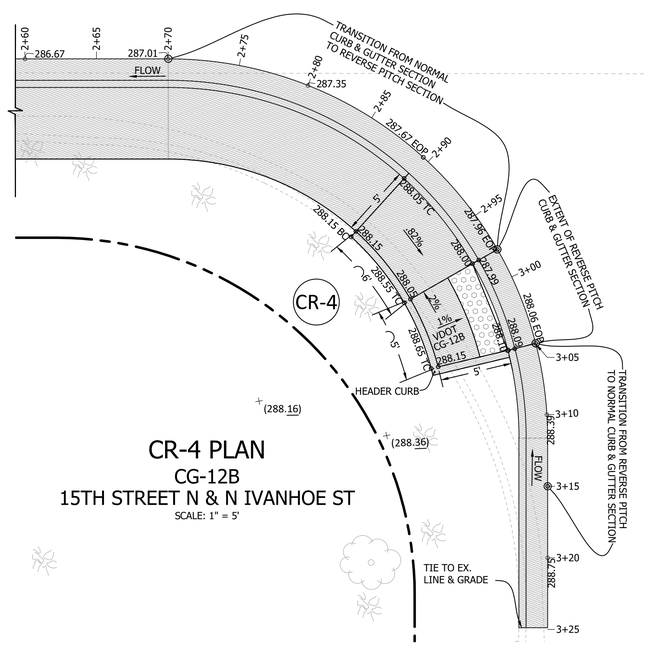
N JEFFERSON ST

15TH STREET N



CR-3 PLAN
CG-12B
N JEFFERSON ST & 15TH STREET N
SCALE: 1" = 5'

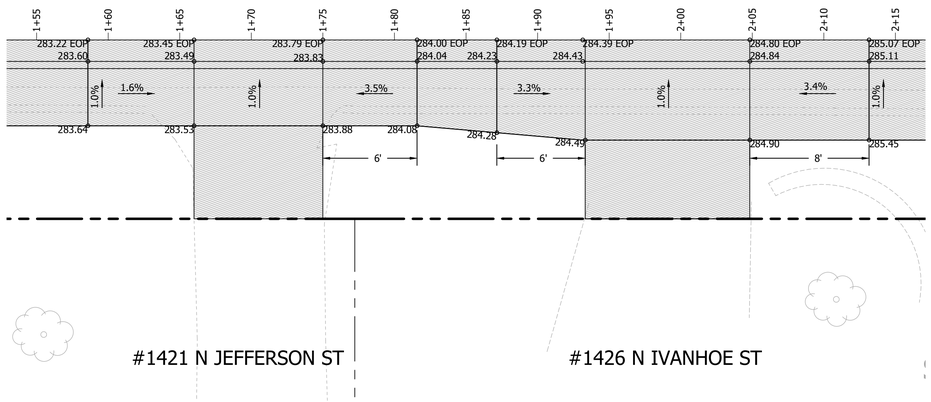
15TH STREET N



CR-4 PLAN
CG-12B
15TH STREET N & N IVANHOE ST
SCALE: 1" = 5'

N IVANHOE ST

15TH STREET N



#1421 N JEFFERSON ST

#1426 N IVANHOE ST

ARLINGTON VIRGINIA

Approved: 9/13/2023
Subject to field inspection
LDAP23-00060

ARLINGTON VIRGINIA
DEPARTMENT OF ENVIRONMENTAL SERVICES
FACILITIES & ENGINEERING DIVISION
ENGINEERING BUREAU
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ARLINGTON, VA 22201
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SEAL

COMMONWEALTH OF VIRGINIA
GINO SQUARCIAFICO
Reg. No. 43268
04/07/2023
PROFESSIONAL ENGINEER

APPROVALS DATE

QUALITY CONTROL ENGINEER

CONSTRUCTION MANAGEMENT SUPERVISOR

WATER, SEWER, STREETS BUREAU CHIEF

TRANSPORTATION DIRECTOR

PROJECT MANAGER

REVISIONS DATE

15TH STREET N
Z313
N INGLEWOOD ST TO N KENILWORTH ST

RAMP DETAILS CR-2, 3 & 4

DESIGNED: V. ROLLAMAS
DRAWN: V. ROLLAMAS
CHECKED: G SQUARCIAFICO

PLOTTED: APRIL 7 2023

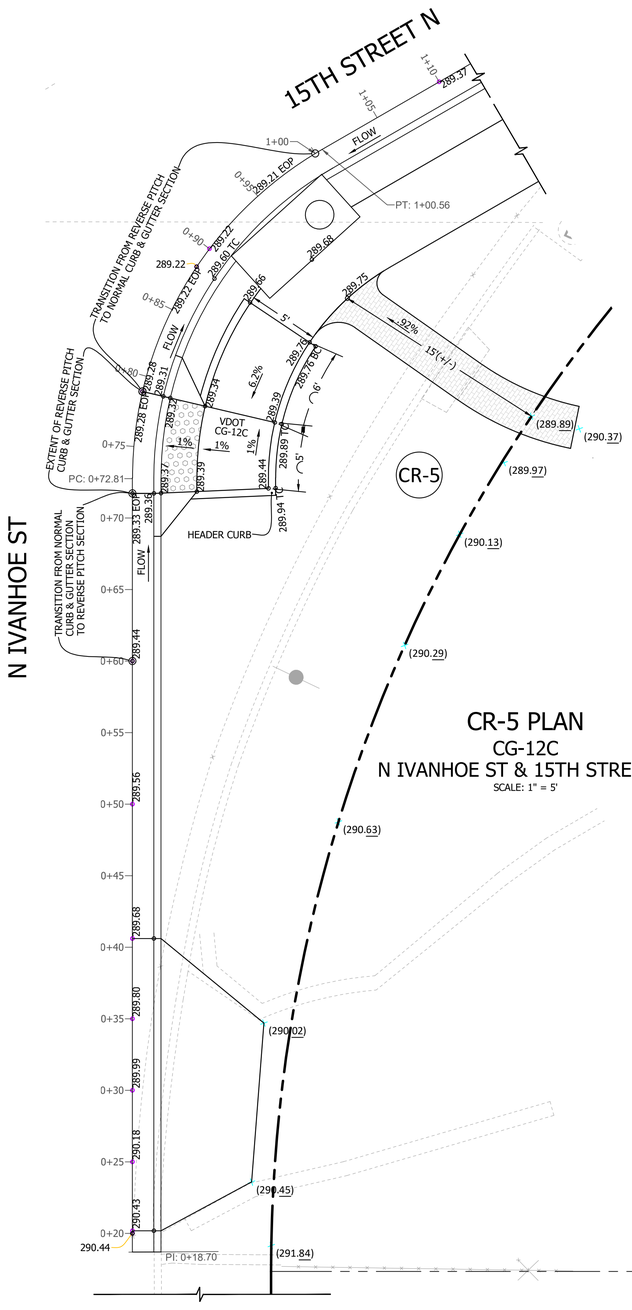
SCALE:

AS NOTED

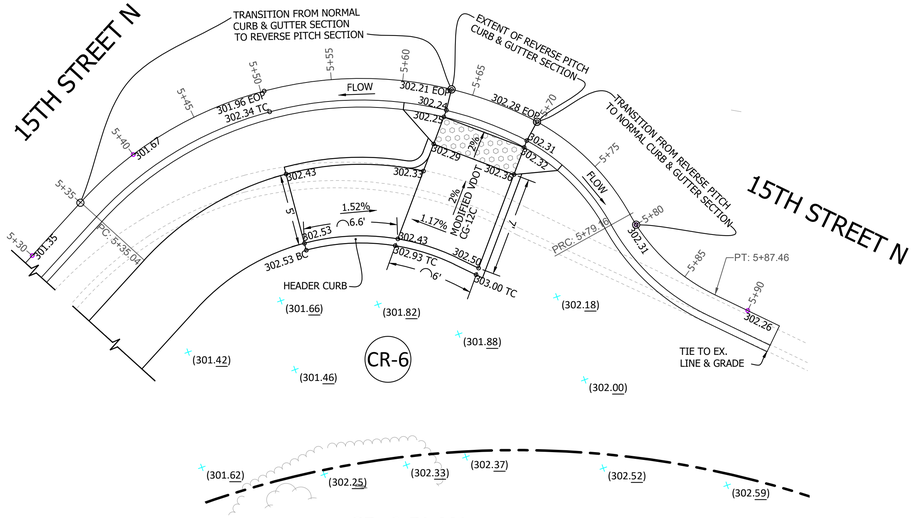
C042.2

FILENAME: Z313-208-RAMP_DETAILS.DWG PATH: Q:\DATA\Z313\DESIGN\CAD\ACTIVE PLOTTED BY: VROLLAMAS

REVISED ON 1/24/2022



CR-5 PLAN
CG-12C
N IVANHOE ST & 15TH STREET N
SCALE: 1" = 5'



CR-6 PLAN
CG-12C
15TH STREET N & 15TH STREET N
SCALE: 1" = 5'

ARLINGTON VIRGINIA

Approved: 9/13/2023
Subject to field inspection
LDAP23-00060

ARLINGTON VIRGINIA

DEPARTMENT OF ENVIRONMENTAL SERVICES
FACILITIES & ENGINEERING DIVISION
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SEAL

COMMONWEALTH OF VIRGINIA
GINO SQUARCIAFICO
No. 043288
06/30/2023
PROFESSIONAL ENGINEER

APPROVALS	DATE
QUALITY CONTROL ENGINEER	
CONSTRUCTION MANAGEMENT SUPERVISOR	
WATER, SEWER, STREETS BUREAU CHIEF	
ENGINEERING BUREAU CHIEF	
PROJECT MANAGER	

REVISIONS	DATE

15TH STREET N
Z313
N INGLEWOOD ST TO N KENILWORTH ST

RAMP DETAILS CR-5 & 6

DESIGNED: V. ROLLAMAS
DRAWN: V. ROLLAMAS
CHECKED: G SQUARCIAFICO

PLOTTED: AUGUST 31 2023

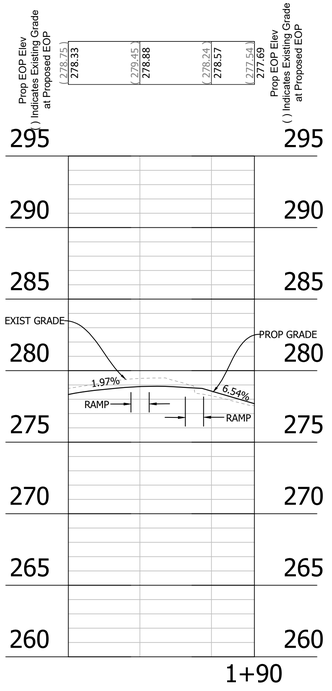
SCALE:

AS NOTED

C042.3

FILENAME: Z313-208-RAMP_DETAILS.DWG PATH: Q:\DATA\Z313\DESIGN\CAD\ACTIVE PLOTTED BY: VROLLAMAS

REVISED ON 1/24/2022

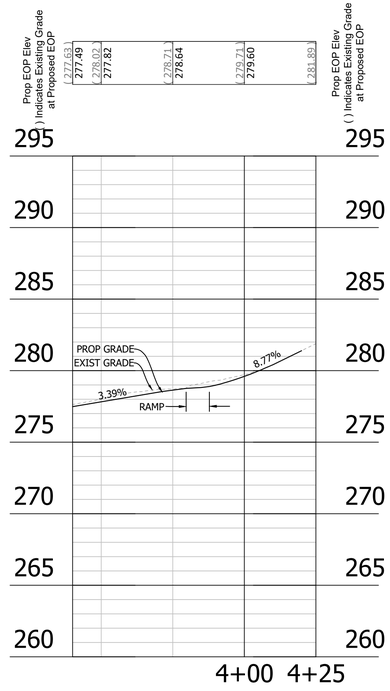


CR-1 PROFILE

N KENILWORTH ST & 15TH STREET N

HOR. SCALE: 1" = 10'

VER. SCALE: 1" = 5'

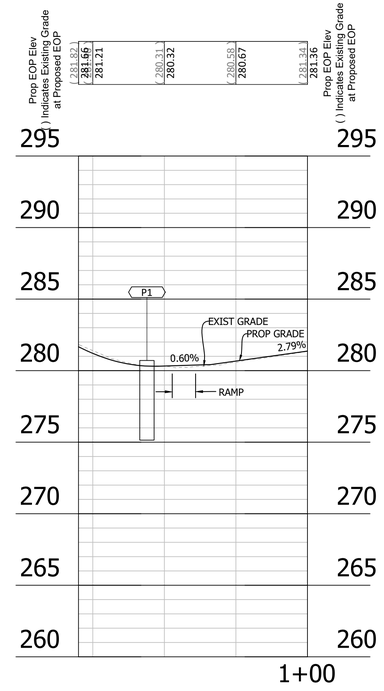


CR-2 PROFILE

15TH STREET N & N JEFFERSON ST

HOR. SCALE: 1" = 10'

VER. SCALE: 1" = 5'

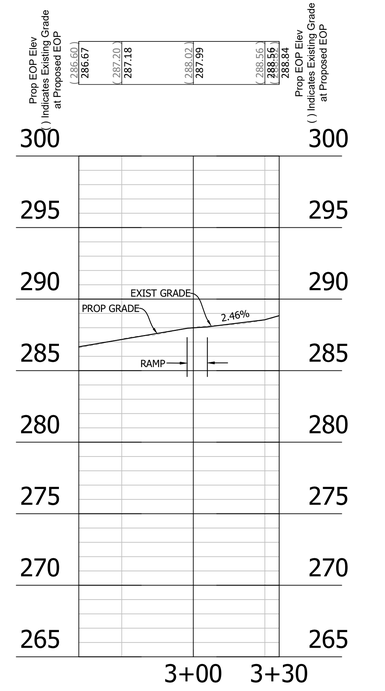


CR-3 PROFILE

N JEFFFERSON ST & 15TH STREET N

HOR. SCALE: 1" = 10'

VER. SCALE: 1" = 5'

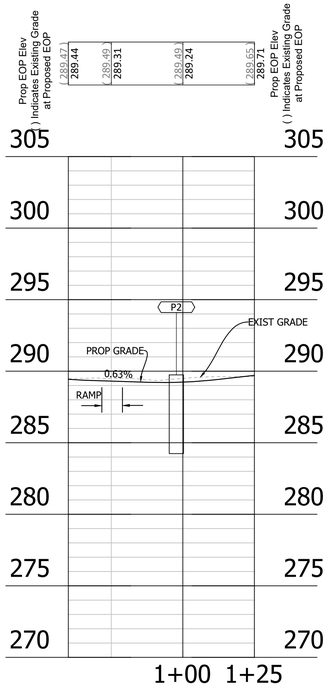


CR-4 PROFILE

15TH STREET N & N IVANHOE ST

HOR. SCALE: 1" = 10'

VER. SCALE: 1" = 5'



CR-5 PROFILE

N IVANHOE ST & 15TH STREET N

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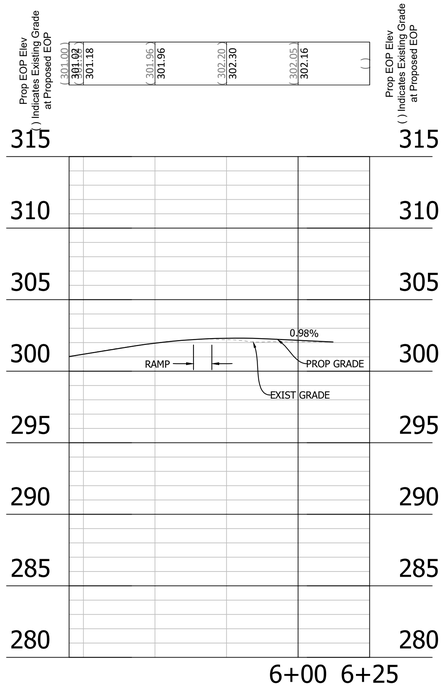
VER. SCALE: 1" = 5'



CR-6 PROFILE

15TH STREET N & 15TH STREET N

HOR. SCALE: 1" = 10'

VER. SCALE: 1" = 5'

ARLINGTON VIRGINIA

Approved: 9/13/2023
Subject to field inspection
EDAP23-00060

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
GINO SQUARCIAFICO
No. 043.1.6888
06/30/2023
PROFESSIONAL ENGINEER

APPROVALS DATE

QUALITY CONTROL ENGINEER

CONSTRUCTION MANAGEMENT SUPERVISOR

WATER, SEWER, STREETS BUREAU CHIEF

ENGINEERING BUREAU CHIEF

PROJECT MANAGER

REVISIONS DATE

15TH STREET N
Z313
N INGLEWOOD ST TO N KENILWORTH ST

CURB RETURN PROFILE CR-1 TO CR-6

DESIGNED: V. ROLLAMAS
DRAWN: V. ROLLAMAS
CHECKED: G SQUARCIAFICO

PLOTTED: AUGUST 31 2023

SCALE: 1"=5' , 1"=10'

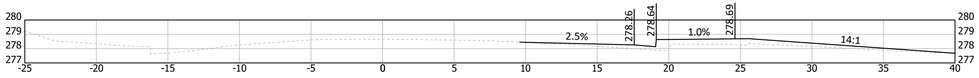
0 5 10
VERT. SCALE

0 10 20
HORIZ. SCALE

C043.1

FILENAME: Z313-232-CURB_RETURN_PROFILES.DWG PATH: Q:\DATA\Z313\DESIGN\CAD\ACTIVE PLOTTED BY: VROLLAMAS

15TH STREET N



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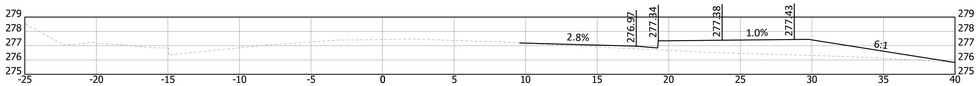

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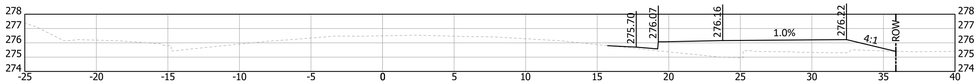

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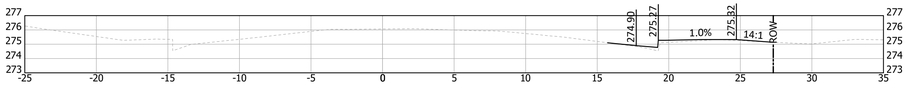

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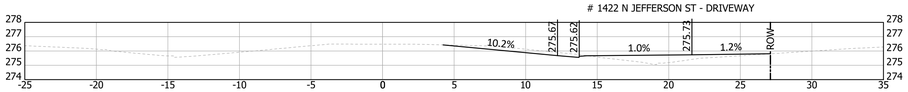

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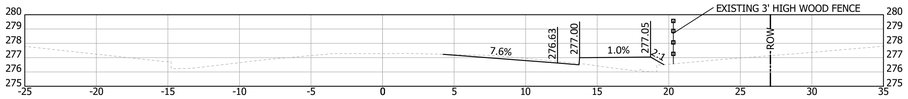

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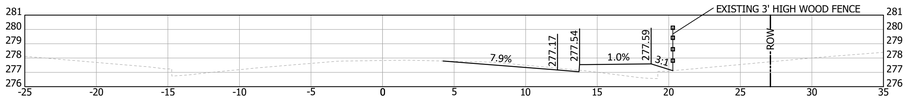

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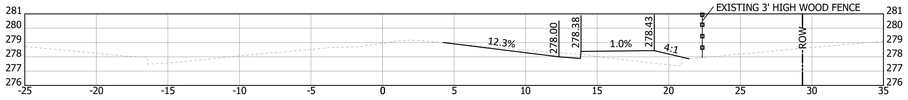

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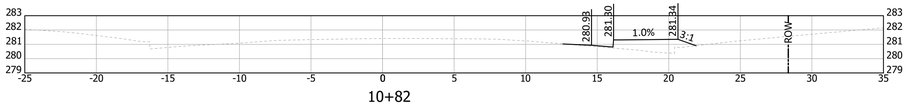

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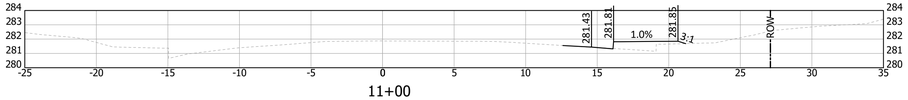

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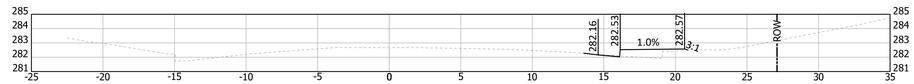

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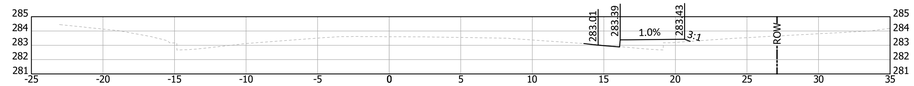

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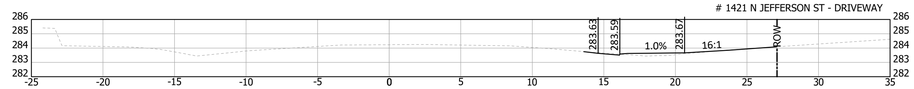

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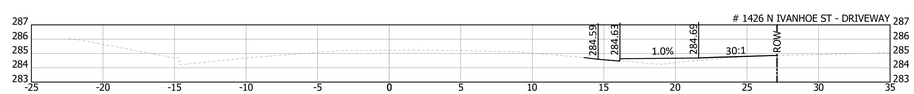

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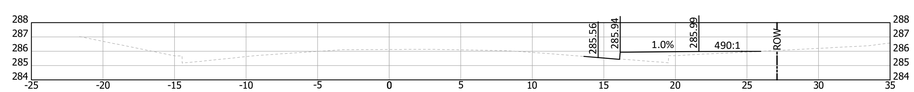

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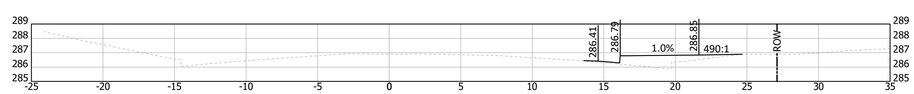

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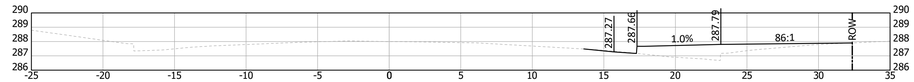

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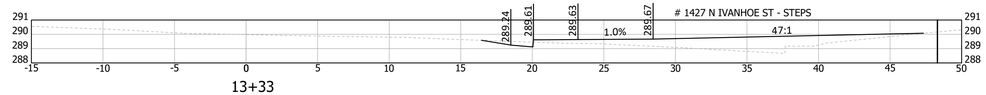

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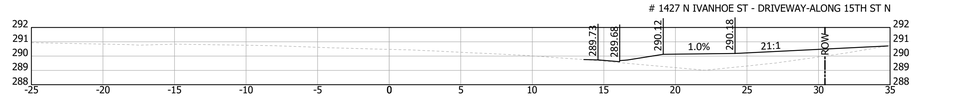

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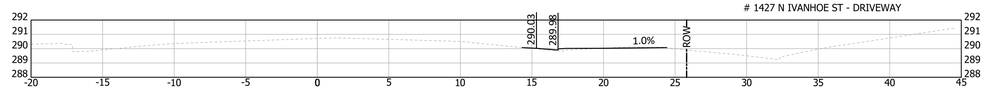

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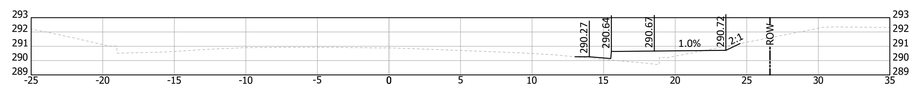

13+75

REVISED ON 1/24/2022

FILENAME: Z313-122-CORRIDOR-VIRGINIO-2022-01-04.DWG PATH: Q:\DATA\Z313\DESIGN\CAD\ACTIVE PLOTTED BY: VROLLAMAS

Approved: 9/13/2023
Subject to field inspection
EDAP23-00060

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
GINO SQUARCIAFICO
No. 042698
06/30/2023
PROFESSIONAL ENGINEER

APPROVALS DATE

QUALITY CONTROL ENGINEER

CONSTRUCTION MANAGEMENT SUPERVISOR

WATER, SEWER, STREETS BUREAU CHIEF

ENGINEERING BUREAU CHIEF

PROJECT MANAGER

REVISIONS DATE

15TH STREET N
Z313
N INGLEWOOD ST TO N KENILWORTH ST

CROSS SECTIONS - STA 8+26 TO STA 13+75

DESIGNED: V. ROLLAMAS
DRAWN: V. ROLLAMAS
CHECKED: G. SQUARCIAFICO

PLOTTED: SEPTEMBER 8 2023

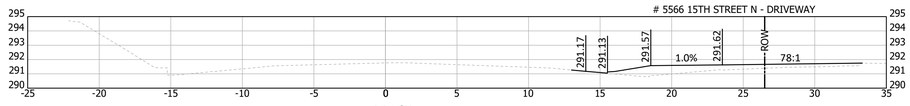
SCALE: 1"=5' , 1"=10'

VERT. SCALE 0 5 10

HORIZ. SCALE 0 10 20

C044.1

15TH STREET N



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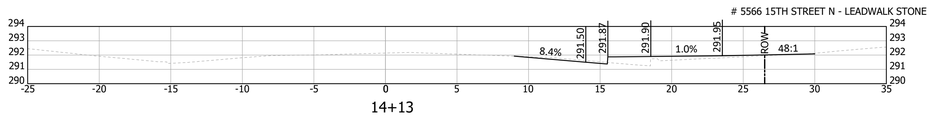

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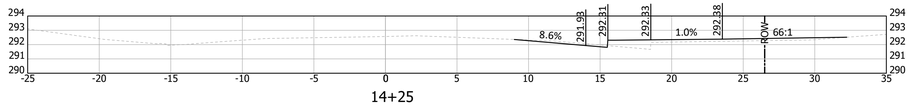

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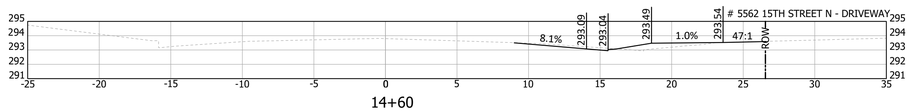

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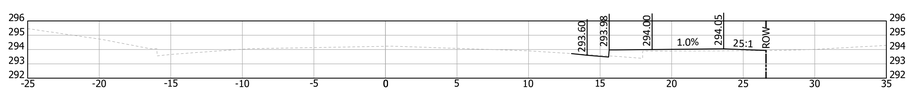

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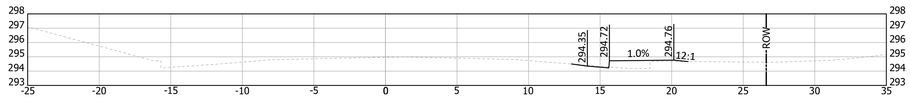

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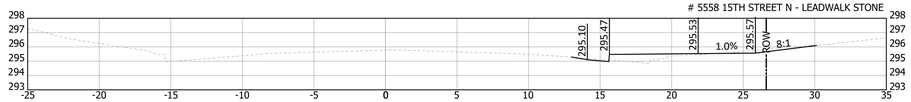

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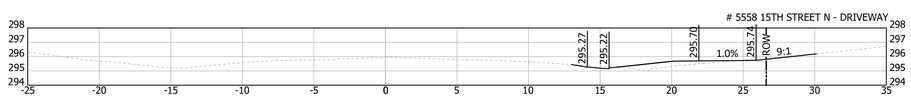

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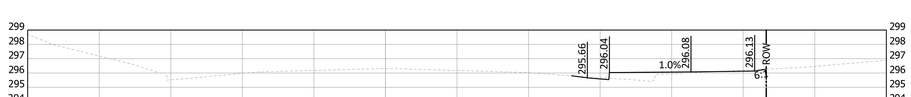

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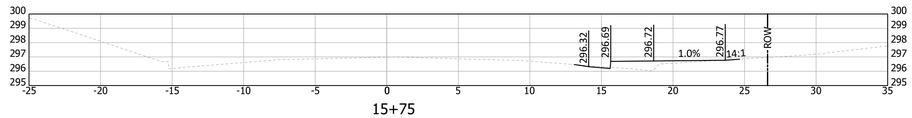

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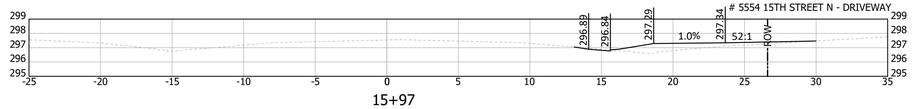

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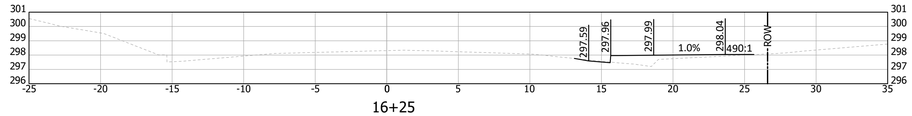

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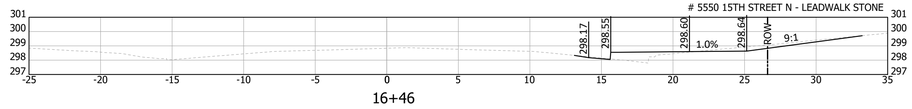

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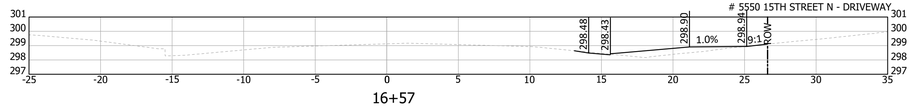

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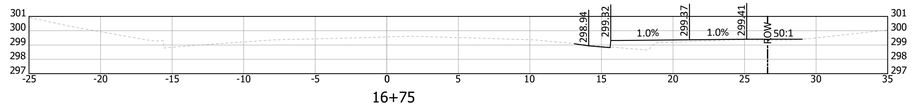

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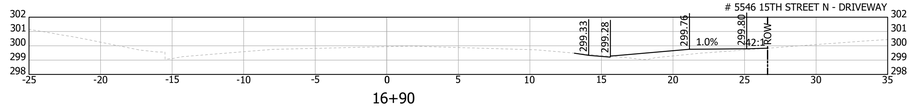

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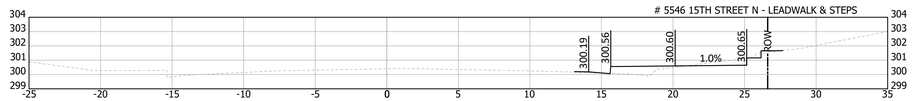

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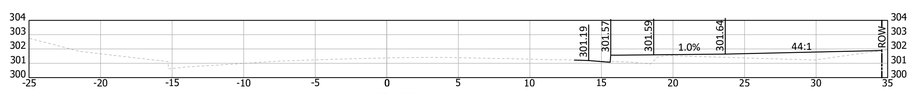

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REVISED ON 1/24/2022

FILENAME: Z313-122-CORRIDOR-VIRGINIO-2022-01-04.DWG PATH: Q:\DATA\Z313\DESIGN\CAD\ACTIVE PLOTTED BY: VROLLAMAS

ARLINGTON VIRGINIA

Approved: 9/13/2023
Subject to field inspection
ED-DAP23-00060

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
GINO SQUARCIAFICO
No. 043998
06/30/2023
PROFESSIONAL ENGINEER

APPROVALS DATE

QUALITY CONTROL ENGINEER

CONSTRUCTION MANAGEMENT SUPERVISOR

WATER, SEWER, STREETS BUREAU CHIEF

ENGINEERING BUREAU CHIEF

PROJECT MANAGER

REVISIONS DATE

15TH STREET N
Z313
N INGLEWOOD ST TO N KENILWORTH ST

CROSS SECTIONS - STA 14+01 TO STA 17+50

DESIGNED: V. ROLLAMAS
DRAWN: V. ROLLAMAS
CHECKED: G. SQUARCIAFICO

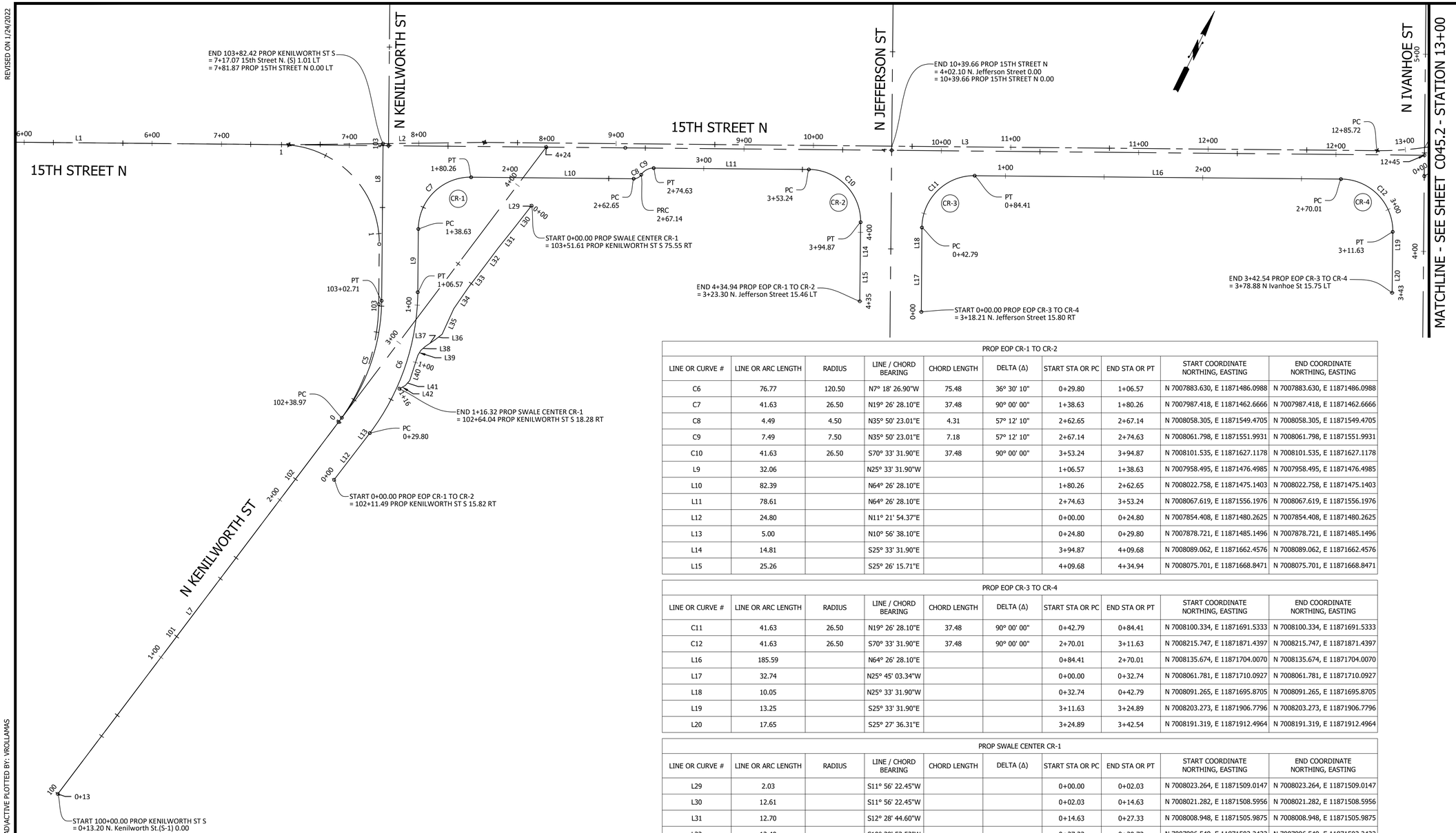
PLOTTED: AUGUST 31 2023

SCALE: 1"=5' , 1"=10'

0 5 10
VERT. SCALE
0 10 20
HORIZ. SCALE

C044.2

REVISED ON 1/24/2022



PROP EOP CR-1 TO CR-2									
LINE OR CURVE #	LINE OR ARC LENGTH	RADIUS	LINE / CHORD BEARING	CHORD LENGTH	DELTA (Δ)	START STA OR PC	END STA OR PT	START COORDINATE NORTHING, EASTING	END COORDINATE NORTHING, EASTING
C6	76.77	120.50	N7° 18' 26.90"W	75.48	36° 30' 10"	0+29.80	1+06.57	N 7007883.630, E 11871486.0988	N 7007883.630, E 11871486.0988
C7	41.63	26.50	N19° 26' 28.10"E	37.48	90° 00' 00"	1+38.63	1+80.26	N 7007987.418, E 11871462.6666	N 7007987.418, E 11871462.6666
C8	4.49	4.50	N35° 50' 23.01"E	4.31	57° 12' 10"	2+62.65	2+67.14	N 7008058.305, E 11871549.4705	N 7008058.305, E 11871549.4705
C9	7.49	7.50	N35° 50' 23.01"E	7.18	57° 12' 10"	2+67.14	2+74.63	N 7008061.798, E 11871551.9931	N 7008061.798, E 11871551.9931
C10	41.63	26.50	S70° 33' 31.90"E	37.48	90° 00' 00"	3+53.24	3+94.87	N 7008101.535, E 11871627.1178	N 7008101.535, E 11871627.1178
L9	32.06		N25° 33' 31.90"W			1+06.57	1+38.63	N 7007958.495, E 11871476.4985	N 7007958.495, E 11871476.4985
L10	82.39		N64° 26' 28.10"E			1+80.26	2+62.65	N 7008022.758, E 11871475.1403	N 7008022.758, E 11871475.1403
L11	78.61		N64° 26' 28.10"E			2+74.63	3+53.24	N 7008067.619, E 11871556.1976	N 7008067.619, E 11871556.1976
L12	24.80		N11° 21' 54.37"E			0+00.00	0+24.80	N 7007854.408, E 11871480.2625	N 7007854.408, E 11871480.2625
L13	5.00		N10° 56' 38.10"E			0+24.80	0+29.80	N 7007878.721, E 11871485.1496	N 7007878.721, E 11871485.1496
L14	14.81		S25° 33' 31.90"E			3+94.87	4+09.68	N 7008089.062, E 11871662.4576	N 7008089.062, E 11871662.4576
L15	25.26		S25° 26' 15.71"E			4+09.68	4+34.94	N 7008075.701, E 11871668.8471	N 7008075.701, E 11871668.8471

PROP EOP CR-3 TO CR-4									
LINE OR CURVE #	LINE OR ARC LENGTH	RADIUS	LINE / CHORD BEARING	CHORD LENGTH	DELTA (Δ)	START STA OR PC	END STA OR PT	START COORDINATE NORTHING, EASTING	END COORDINATE NORTHING, EASTING
C11	41.63	26.50	N19° 26' 28.10"E	37.48	90° 00' 00"	0+42.79	0+84.41	N 7008100.334, E 11871691.5333	N 7008100.334, E 11871691.5333
C12	41.63	26.50	S70° 33' 31.90"E	37.48	90° 00' 00"	2+70.01	3+11.63	N 7008215.747, E 11871871.4397	N 7008215.747, E 11871871.4397
L16	185.59		N64° 26' 28.10"E			0+84.41	2+70.01	N 7008135.674, E 11871704.0070	N 7008135.674, E 11871704.0070
L17	32.74		N25° 45' 03.34"W			0+00.00	0+32.74	N 7008061.781, E 11871710.0927	N 7008061.781, E 11871710.0927
L18	10.05		N25° 33' 31.90"W			0+32.74	0+42.79	N 7008091.265, E 11871695.8705	N 7008091.265, E 11871695.8705
L19	13.25		S25° 33' 31.90"E			3+11.63	3+24.89	N 7008203.273, E 11871906.7796	N 7008203.273, E 11871906.7796
L20	17.65		S25° 27' 36.31"E			3+24.89	3+42.54	N 7008191.319, E 11871912.4964	N 7008191.319, E 11871912.4964

PROP SWALE CENTER CR-1									
LINE OR CURVE #	LINE OR ARC LENGTH	RADIUS	LINE / CHORD BEARING	CHORD LENGTH	DELTA (Δ)	START STA OR PC	END STA OR PT	START COORDINATE NORTHING, EASTING	END COORDINATE NORTHING, EASTING
L29	2.03		S11° 56' 22.45"W			0+00.00	0+02.03	N 7008023.264, E 11871509.0147	N 7008023.264, E 11871509.0147
L30	12.61		S11° 56' 22.45"W			0+02.03	0+14.63	N 7008021.282, E 11871508.5956	N 7008021.282, E 11871508.5956
L31	12.70		S12° 28' 44.60"W			0+14.63	0+27.33	N 7008008.948, E 11871505.9875	N 7008008.948, E 11871505.9875
L32	12.40		S10° 39' 53.52"W			0+27.33	0+39.73	N 7007996.549, E 11871503.2433	N 7007996.549, E 11871503.2433
L33	12.49		S11° 15' 18.10"W			0+39.73	0+52.22	N 7007984.364, E 11871500.9488	N 7007984.364, E 11871500.9488
L34	13.25		S8° 21' 14.32"W			0+52.22	0+65.47	N 7007972.111, E 11871498.5104	N 7007972.111, E 11871498.5104
L35	14.25		S1° 28' 45.09"E			0+65.47	0+79.72	N 7007959.004, E 11871496.5857	N 7007959.004, E 11871496.5857
L36	4.60		S25° 37' 57.97"W			0+79.72	0+84.32	N 7007944.758, E 11871496.9536	N 7007944.758, E 11871496.9536
L37	5.97		S29° 50' 52.08"W			0+84.32	0+90.29	N 7007940.614, E 11871494.9656	N 7007940.614, E 11871494.9656
L38	2.90		S22° 19' 05.99"W			0+90.29	0+93.18	N 7007935.437, E 11871491.9950	N 7007935.437, E 11871491.9950
L39	2.91		S5° 38' 01.33"W			0+93.18	0+96.10	N 7007932.758, E 11871490.8950	N 7007932.758, E 11871490.8950
L40	13.52		S8° 12' 02.14"E			0+96.10	1+09.62	N 7007929.858, E 11871490.6089	N 7007929.858, E 11871490.6089
L41	3.34		S15° 13' 45.89"W			1+09.62	1+12.96	N 7007916.478, E 11871492.5372	N 7007916.478, E 11871492.5372
L42	3.40		S34° 35' 18.36"W			1+12.96	1+16.36	N 7007913.253, E 11871491.6593	N 7007913.253, E 11871491.6593

PROP KENILWORTH ST S									
LINE OR CURVE #	LINE OR ARC LENGTH	RADIUS	LINE / CHORD BEARING	CHORD LENGTH	DELTA (Δ)	START STA OR PC	END STA OR PT	START COORDINATE NORTHING, EASTING	END COORDINATE NORTHING, EASTING
C5	63.74	100.00	N7° 18' 53.26"W	62.66	36° 31' 08"	102+38.97	103+02.71	N 7007884.387, E 11871469.9515	N 7007884.387, E 11871469.9515
L7	238.97		N10° 56' 40.80"E			100+00.00	102+38.97	N 7007649.764, E 11871424.5804	N 7007649.764, E 11871424.5804
L8	79.71		N25° 34' 27.33"W			103+02.71	103+82.42	N 7007946.541, E 11871461.9730	N 7007946.541, E 11871461.9730

ARLINGTON VIRGINIA

Approved: 9/13/2023
Subject to field inspection
LDAP23-00060

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
GINO SQUARCIAFICO
No. 042698
06/30/2023
PROFESSIONAL ENGINEER

APPROVALS DATE

QUALITY CONTROL ENGINEER

CONSTRUCTION MANAGEMENT SUPERVISOR

WATER, SEWER, STREETS BUREAU CHIEF

ENGINEERING BUREAU CHIEF

PROJECT MANAGER

REVISIONS DATE

15TH STREET N
Z313
N INGLEWOOD ST TO N KENILWORTH ST

GEOMETRIC CONTROL PLAN 1

DESIGNED: V. ROLLLAMAS
DRAWN: V. ROLLLAMAS
CHECKED: G SQUARCIAFICO

PLOTTED: AUGUST 31 2023

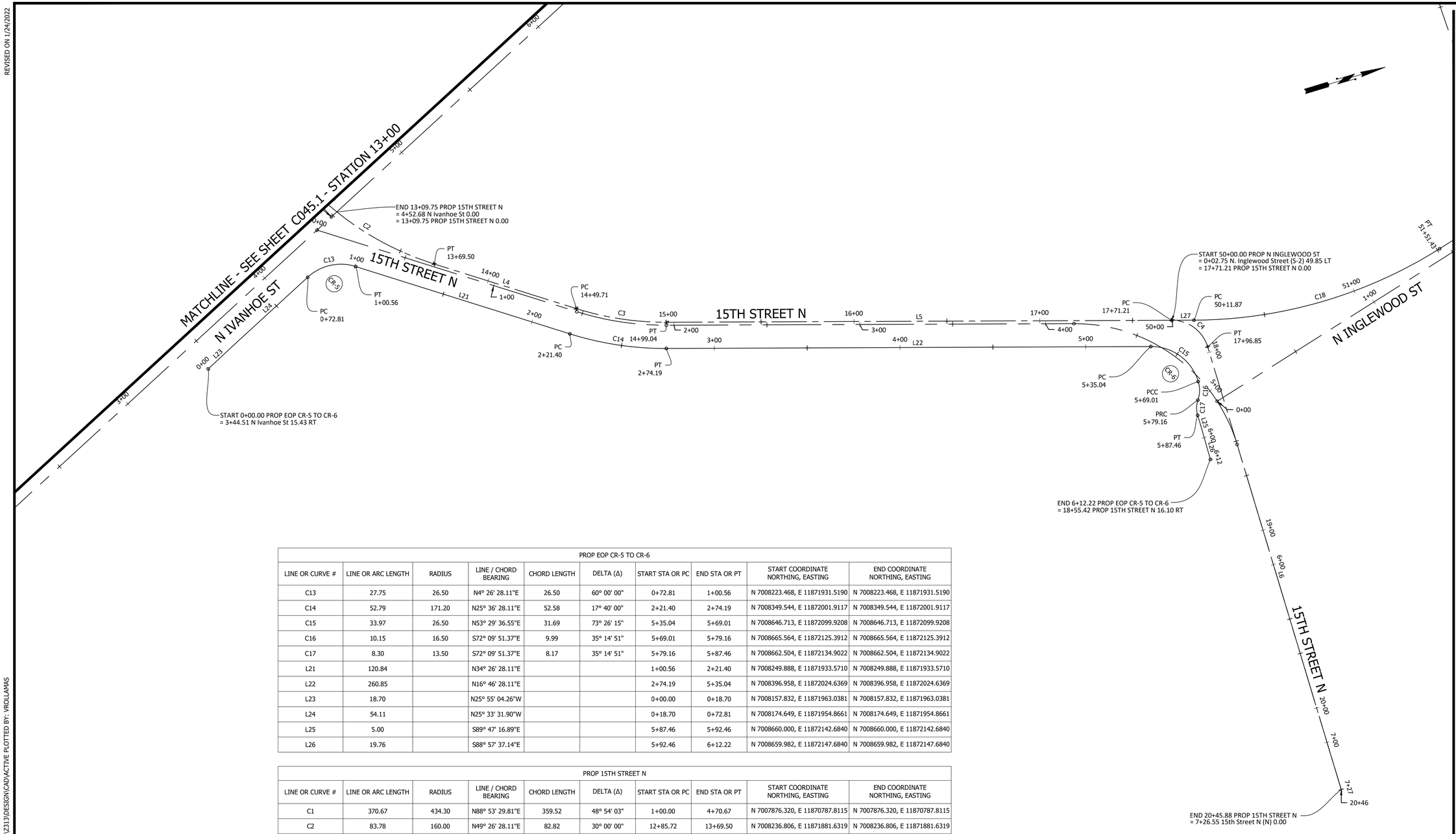
SCALE:

0 25 50
GRAPHIC SCALE

C045.1

FILENAME: Z313-216-GEOMETRIC_CONTROL_PLAN.DWG PATH: Q:\DATA\Z313\DESIGN\CAD\ACTIVE PLOTTED BY: VROLLAMAS

REVISED ON 1/24/2022



PROP EOP CR-5 TO CR-6

LINE OR CURVE #	LINE OR ARC LENGTH	RADIUS	LINE / CHORD BEARING	CHORD LENGTH	DELTA (Δ)	START STA OR PC	END STA OR PT	START COORDINATE NORTHING, EASTING	END COORDINATE NORTHING, EASTING
C13	27.75	26.50	N4° 26' 28.11"E	26.50	60° 00' 00"	0+72.81	1+00.56	N 7008223.468, E 11871931.5190	N 7008223.468, E 11871931.5190
C14	52.79	171.20	N25° 36' 28.11"E	52.58	17° 40' 00"	2+21.40	2+74.19	N 7008349.544, E 11872001.9117	N 7008349.544, E 11872001.9117
C15	33.97	26.50	N53° 29' 36.55"E	31.69	73° 26' 15"	5+35.04	5+69.01	N 7008646.713, E 11872099.9208	N 7008646.713, E 11872099.9208
C16	10.15	16.50	S72° 09' 51.37"E	9.99	35° 14' 51"	5+69.01	5+79.16	N 7008665.564, E 11872125.3912	N 7008665.564, E 11872125.3912
C17	8.30	13.50	S72° 09' 51.37"E	8.17	35° 14' 51"	5+79.16	5+87.46	N 7008662.504, E 11872134.9022	N 7008662.504, E 11872134.9022
L21	120.84		N34° 26' 28.11"E			1+00.56	2+21.40	N 7008249.888, E 11871933.5710	N 7008249.888, E 11871933.5710
L22	260.85		N16° 46' 28.11"E			2+74.19	5+35.04	N 7008396.958, E 11872024.6369	N 7008396.958, E 11872024.6369
L23	18.70		N25° 55' 04.26"W			0+00.00	0+18.70	N 7008157.832, E 11871963.0381	N 7008157.832, E 11871963.0381
L24	54.11		N25° 33' 31.90"W			0+18.70	0+72.81	N 7008174.649, E 11871954.8661	N 7008174.649, E 11871954.8661
L25	5.00		S89° 47' 16.89"E			5+87.46	5+92.46	N 7008660.000, E 11872142.6840	N 7008660.000, E 11872142.6840
L26	19.76		S88° 57' 37.14"E			5+92.46	6+12.22	N 7008659.982, E 11872147.6840	N 7008659.982, E 11872147.6840

PROP 15TH STREET N

LINE OR CURVE #	LINE OR ARC LENGTH	RADIUS	LINE / CHORD BEARING	CHORD LENGTH	DELTA (Δ)	START STA OR PC	END STA OR PT	START COORDINATE NORTHING, EASTING	END COORDINATE NORTHING, EASTING
C1	370.67	434.30	N88° 53' 29.81"E	359.52	48° 54' 03"	1+00.00	4+70.67	N 7007876.320, E 11870787.8115	N 7007876.320, E 11870787.8115
C2	83.78	160.00	N49° 26' 28.11"E	82.82	30° 00' 00"	12+85.72	13+69.50	N 7008236.806, E 11871881.6319	N 7008236.806, E 11871881.6319
C3	49.33	160.00	N25° 36' 28.11"E	49.14	17° 40' 00"	14+49.71	14+99.04	N 7008356.807, E 11871989.9175	N 7008356.807, E 11871989.9175
C4	25.63	20.00	N53° 29' 35.61"E	23.92	73° 26' 15"	17+71.21	17+96.85	N 7008661.710, E 11872089.7061	N 7008661.710, E 11872089.7061
L1	263.45		N64° 26' 28.10"E			4+70.67	7+34.12	N 7007883.275, E 11871147.2634	N 7007883.275, E 11871147.2634
L2	99.18		N63° 13' 38.61"E			7+34.12	8+33.30	N 7007996.936, E 11871384.9313	N 7007996.936, E 11871384.9313
L3	452.43		N64° 26' 28.10"E			8+33.30	12+85.72	N 7008041.612, E 11871473.4799	N 7008041.612, E 11871473.4799
L4	80.21		N34° 26' 28.11"E			13+69.50	14+49.71	N 7008290.659, E 11871944.5550	N 7008290.659, E 11871944.5550
L5	272.17		N16° 46' 28.11"E			14+99.04	17+71.21	N 7008401.120, E 11872011.1560	N 7008401.120, E 11872011.1560
L6	249.03		S89° 47' 16.89"E			17+96.85	20+45.88	N 7008675.938, E 11872108.9291	N 7008675.938, E 11872108.9291

ARLINGTON VIRGINIA

Approved: 9/13/2023
Subject to field inspection
LDAP23-00060

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
GINO SQUARCIAFICO
No. 042698
PROFESSIONAL ENGINEER
06/30/2023

APPROVALS	DATE
QUALITY CONTROL ENGINEER	
CONSTRUCTION MANAGEMENT SUPERVISOR	
WATER, SEWER, STREETS BUREAU CHIEF	
ENGINEERING BUREAU CHIEF	
PROJECT MANAGER	

REVISIONS	DATE

15TH STREET N
Z313
N INGLEWOOD ST TO N KENILWORTH ST

GEOMETRIC CONTROL PLAN 2

DESIGNED: V. ROLLLAMAS
DRAWN: V. ROLLLAMAS
CHECKED: G SQUARCIAFICO

PLOTTED: AUGUST 31 2023

SCALE:

0 25 50
GRAPHIC SCALE

C045.2

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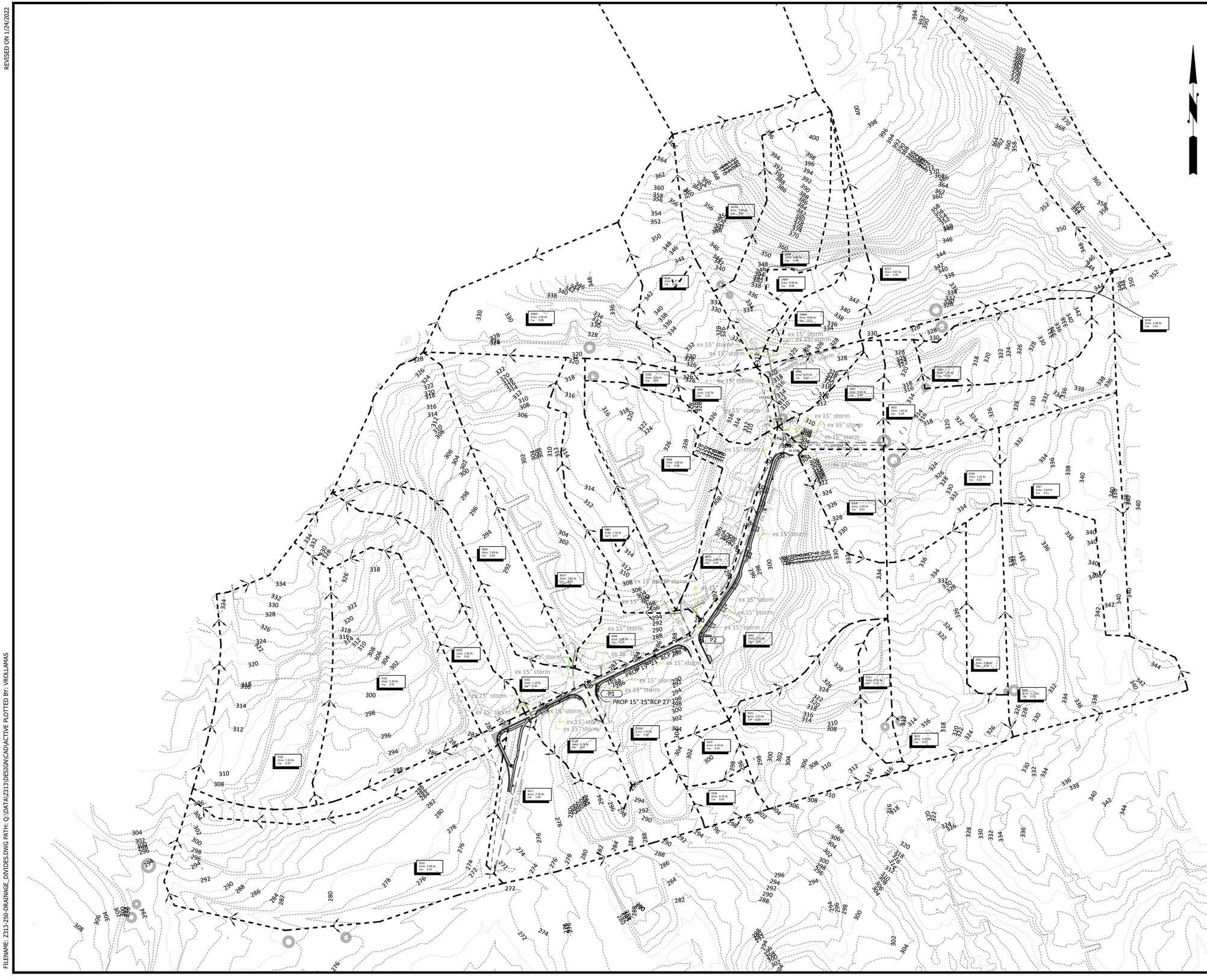
REVISED ON 1/24/2022



ARLINGTON VIRGINIA

Approved: 9/13/2023
Subject to field inspection
LDAP23-00060

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
GINO SQUARCIAFICO
No. 043988
06/30/2023
PROFESSIONAL ENGINEER

APPROVALS	DATE
QUALITY CONTROL ENGINEER	
CONSTRUCTION MANAGEMENT SUPERVISOR	
WATER, SEWER, STREETS BUREAU CHIEF	
ENGINEERING BUREAU CHIEF	
PROJECT MANAGER	

REVISIONS	DATE

STORM SEWER DRAINAGE DIVIDES

15TH STREET N
Z313
N INGLEWOOD ST TO N KENILWORTH ST

DESIGNED: V. ROLLAMAS
DRAWN: V. ROLLAMAS
CHECKED: G SQUARCIAFICO

PLOTTED: AUGUST 31 2023

SCALE:

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HOR: SCALE: 1" = 100'

SHEET C071.1

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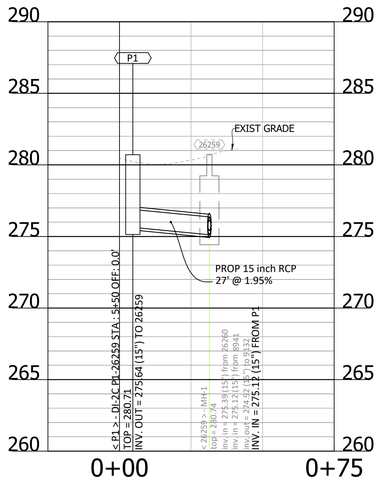
REVISED ON 1/24/2022

PROP STORM PROFILE
P1-26259



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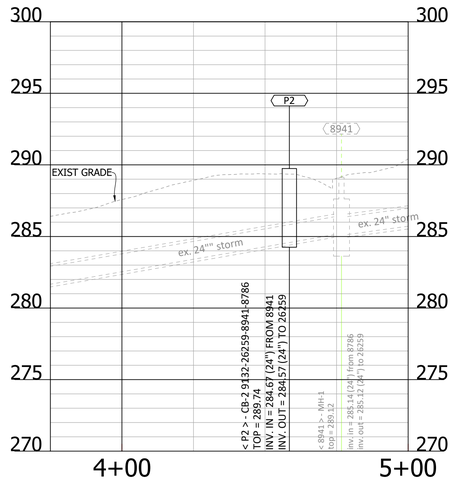
9132-26259-8941-8786



Storm Drain Design Computations

From Point	To Point	Drainage Area	Runoff Coefficient	CA			Inlet Time	Time of Conc.	Rainfall	Runoff Q	Invert Elevations		Length	Slope	Diameter	Capacity	Velocity	Flow Time	Remarks
		Acres	C	Incr.	Piped In	Accum.	min	min	in/hr	cfs	Upper End	Lower End	ft	%	in	cfs	fps	min	
26244	26243	1.64	0.53	0.87	0.00	0.87	5.00	5.00	6.79	5.90	331.23	327.83	35.00	9.71%	15	20.13	-	0.00	
26243	8288	0.00	1.00	0.00	0.00	0.87	5.00	5.00	6.79	5.90	327.76	317.60	140.00	7.26%	15	17.40	-	0.00	
8298	8288	1.77	0.65	1.15	0.00	1.15	5.00	5.00	6.79	7.81	319.59	318.06	40.00	3.82%	15	12.63	-	0.00	
8288	24847	1.69	0.48	0.81	0.00	2.83	5.00	5.00	6.79	19.22	318.16	317.07	22.00	4.95%	15	14.38	-	0.00	
24847	24848	0.58	0.50	0.29	0.00	3.12	5.00	5.00	6.79	21.19	317.07	314.54	15.00	16.87%	24	92.91	-	0.00	
24848	8352	0.84	0.51	0.43	0.00	3.55	5.00	5.00	6.79	24.10	314.30	310.16	33.00	12.55%	24	80.13	-	0.00	
8219	8230	9.07	0.50	4.54	0.00	4.54	5.00	5.00	6.79	30.79	324.94	324.50	19.00	2.32%	24	34.43	-	0.00	
8244	8230	0.38	0.67	0.25	0.00	0.25	5.00	5.00	6.79	1.73	325.17	324.94	20.00	1.15%	15	6.93	-	0.00	
8230	8283	0.00	1.00	0.00	0.00	4.79	5.00	5.00	6.79	32.52	323.69	320.23	228.50	1.51%	30	50.47	-	0.00	
8283	8314	0.00	1.00	0.00	0.00	4.79	5.00	5.00	6.79	32.52	320.23	314.50	134.00	4.28%	30	84.82	-	0.00	
8314	8352	0.00	1.00	0.00	0.00	4.79	5.00	5.00	6.79	32.52	314.50	310.16	39.49	10.99%	30	135.97	-	0.00	
8352	8452	0.00	1.00	0.00	0.00	8.34	5.00	5.00	6.79	56.61	309.86	300.63	113.00	8.17%	30	117.23	-	0.00	
8444	8452	0.53	0.57	0.30	0.00	0.30	5.00	5.00	6.79	2.05	302.92	302.82	5.00	2.00%	15	9.14	-	0.00	
8452	8491	0.00	1.00	0.00	0.00	8.64	5.00	5.00	6.79	58.67	300.53	296.11	53.00	8.34%	30	118.45	-	0.00	
8482	8491	0.67	0.57	0.38	0.00	0.38	5.00	5.00	6.79	2.59	300.69	296.11	44.00	10.41%	15	20.84	-	0.00	
8491	8607	0.00	1.00	0.00	0.00	9.02	5.00	5.00	6.79	61.26	296.10	293.19	127.00	2.29%	36	100.96	-	0.00	
8607	8825	0.00	1.00	0.00	0.00	9.02	5.00	5.00	6.79	61.26	293.18	287.24	220.00	2.70%	36	109.60	-	0.00	
8825	8911	0.00	1.00	0.00	0.00	9.02	5.00	5.00	6.79	61.26	287.24	284.26	100.00	2.98%	36	115.14	-	0.00	
8874	8883	0.91	0.55	0.50	0.00	0.50	5.00	5.00	6.79	3.40	287.17	286.58	28.00	2.11%	15	9.38	-	0.00	
8883	8911	0.00	1.00	0.00	0.00	0.50	5.00	5.00	6.79	3.40	286.55	284.26	31.00	7.39%	15	17.56	-	0.00	
8911	8955	0.00	1.00	0.00	0.00	9.52	5.00	5.00	6.79	64.66	284.26	283.08	40.00	2.95%	36	114.56	-	0.00	
8868	8890	2.08	0.48	1.00	0.00	1.00	5.00	5.00	6.79	6.78	289.77	286.78	25.00	11.96%	15	22.34	-	0.00	
8891	8890	1.30	0.57	0.74	0.00	0.74	5.00	5.00	6.79	5.03	289.57	288.31	22.00	5.73%	15	15.46	-	0.00	
8890	8955	0.00	1.00	0.00	0.00	1.74	5.00	5.00	6.79	11.81	286.28	283.08	52.00	6.15%	21	39.31	-	0.00	
8955	9071	0.00	1.00	0.00	0.00	11.26	5.00	5.00	6.79	76.47	283.08	275.78	223.00	3.27%	36	120.68	-	0.00	
9048	9071	0.68	0.55	0.37	0.00	0.37	5.00	5.00	6.79	2.54	277.71	275.78	24.00	8.04%	15	18.32	-	0.00	
9071	9084	0.00	1.00	0.00	0.00	11.64	5.00	5.00	6.79	79.01	275.78	273.58	162.00	1.36%	36	77.73	-	0.00	
9014	9056	2.82	0.52	1.47	0.00	1.47	5.00	5.00	6.79	9.96	279.93	276.60	36.00	9.25%	15	19.65	-	0.00	
9050	9056	2.69	0.50	1.35	0.00	1.35	5.00	5.00	6.79	9.13	277.63	276.60	12.00	8.58%	15	18.93	-	0.00	
9056	9084	0.00	1.00	0.00	0.00	2.81	5.00	5.00	6.79	19.09	276.60	273.58	52.00	5.81%	18	25.31	-	0.00	
9084	9132	0.00	1.00	0.00	0.00	14.45	5.00	5.00	6.79	98.09	273.58	269.49	110.00	3.72%	36	128.61	-	0.00	
9102	9115	9.33	0.56	5.22	0.00	5.22	5.00	5.00	6.79	35.47	270.28	269.49	23.00	3.43%	24	41.93	-	0.00	
9115	9132	0.00	1.00	0.00	0.00	5.22	5.00	5.00	6.79	35.47	269.47	269.46	1.00	1.00%	42	100.61	-	0.00	
8385	8404	1.35	0.45	0.61	0.00	0.61	5.00	5.00	6.79	4.12	307.71	305.23	104.00	2.38%	18	16.22	-	0.00	
8404	8502	0.00	1.00	0.00	0.00	0.61	5.00	5.00	6.79	4.12	305.23	303.66	99.00	1.59%	18	13.23	-	0.00	
8540	8502	1.35	0.53	0.72	0.00	0.72	5.00	5.00	6.79	4.86	309.10	307.77	40.00	3.33%	15	11.78	-	0.00	
8502	8498	1.82	0.54	0.98	0.00	2.31	5.00	5.00	6.79	15.65	303.51	297.37	225.00	2.73%	21	26.17	-	0.00	
8483	8498	0.80	0.54	0.43	0.00	0.43	5.00	5.00	6.79	2.93	298.75	298.27	7.00	6.86%	15	16.92	-	0.00	
8528	8498	0.87	0.57	0.50	0.00	0.50	5.00	5.00	6.79	3.37	299.87	298.20	45.00	3.71%	15	12.44	-	0.00	
8498	8786	0.00	1.00	0.00	0.00	3.23	5.00	5.00	6.79	21.95	297.34	289.61	299.00	2.59%	21	25.48	-	0.00	
8786	8941	0.00	1.00	0.00	0.00	3.23	5.00	5.00	6.79	21.95	289.59	285.14	165.00	2.70%	21	26.02	-	0.00	
8941	26259	3.32	0.51	1.69	0.00	4.93	5.00	5.00	6.79	33.45	285.12	275.12	285.00	3.51%	24	42.38	-	0.00	
26260	26259	1.42	0.54	0.77	0.00	0.77	5.00	5.00	6.79	5.21	276.09	275.39	11.00	6.36%	15	16.30	-	0.00	
26259	9132	0.00	1.00	0.00	0.00	11.39	5.00	5.00	6.79	77.31	274.92	269.46	166.00	3.29%	21	28.74	-	0.00	
9132	9139	0.00	1.00	0.00	0.00	31.06	5.00	5.00	6.79	210.88	269.46	269.45	1.00	1.00%	42	100.61	-	0.00	
9139	9433	0.74	0.57	0.42	0.00	31.48	5.00	5.00	6.79	213.74	269.45	260.10	370.00	2.53%	42	159.94	-	0.00	
9432	9433	5.20	0.56	2.92	0.00	2.92	5.00	5.00	6.79	19.85	268.35	266.27	55.00	3.78%	24	43.99	-	0.00	
9417	9433	2.30	0.60	1.38	0.00	1.38	5.00	5.00	6.79	9.37	269.80	268.60	28.00	4.29%	15	13.37	-	0.00	
P1	26259	1.42	0.54	0.77	0.00	0.77	5.00	5.00	6.79	5.21	275.64	275.12	26.00	2.00%	15	9.14	-	0.00	
8941	**P2**	3.32	0.51	1.69	0.00	4.93	5.00	5.00	6.79	33.45	285.12	284.67	13.00	3.46%	21	29.48	-	0.00	
P2	26259	0.00	0.51	0.00	0.00	4.93	5.00	5.00	6.79	33.45	284.67	275.12	274.00	3.49%	21	29.58	-	0.00	

Storm Inlet Computations

Inlet				Flow							Curb Inlet											Operation			Sag Inlets Only			
Number	Type	Length (ft)	Station	Drainage Area (acres)	C	CA	i (in/hr)	Q Incr (ft^3/s)	Q Carryover (ft^3/s)	Q_T (ft^3/s)	S Gutter Slope (ft/ft)	Sx Crossslope (ft/ft)	T Spread (ft)	W (ft)	W/T	Sw (ft/ft)	Sw/Sx	E_o	a (in)	S'w	Se (ft/ft)	L_T Computed Length (ft)	L/L_T	E (%)	Q_i Intercepted (ft^3/s)	Q_b Carryover (ft^3/s)	d (ft)	h (ft)	d/h	T Spread @ Sag (ft)
P1	DI-2C	8		1.42	0.54	0.767	4.00	3.07	0.00	3.067		0.02083		1.50		0.0833											0.25	0.46	0.00	7.66
P2	CB-2A	8		3.32	0.51	1.693	4.00	6.77	0.00	6.773		0.02083		1.50		0.0833											0.42	0.42	0.00	15.81

FILENAME: Z313-134-STORM.DWG PATH: Q:\DATA\Z313\DESIGN\CAD\ACTIVE PLOTTED BY: VROLLAMAS

ARLINGTON VIRGINIA

Approved: 9/13/2023
Subject to field inspection
LDAP23-00060

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
GIAN SQUARCIAFICO
No. 042398
06/30/2023
PROFESSIONAL ENGINEER

APPROVALS DATE

QUALITY CONTROL ENGINEER

CONSTRUCTION MANAGEMENT SUPERVISOR

WATER, SEWER, STREETS BUREAU CHIEF

ENGINEERING BUREAU CHIEF

PROJECT MANAGER

REVISIONS DATE

15TH STREET N
Z313
N INGLEWOOD ST TO N KENTLWORTH ST

STORM SEWER PROFILES

DESIGNED: V. ROLLAMAS
DRAWN: V. ROLLAMAS
CHECKED: G. SQUARCIAFICO

PLOTTED: AUGUST 31 2023

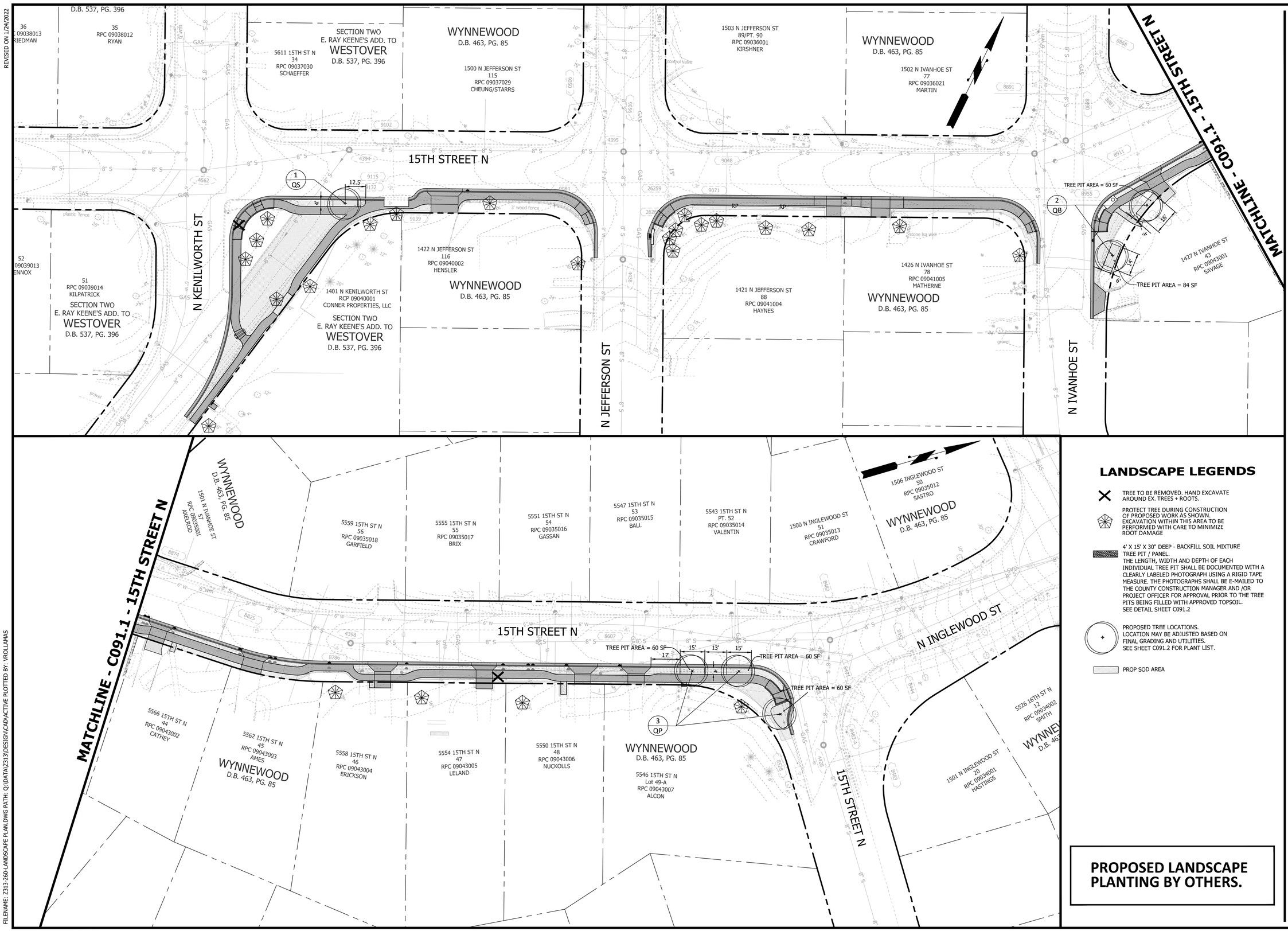
SCALE: 1"=5' , 1"=10'

0 5 10
VERT. SCALE

0 10 20
HORIZ. SCALE

C073.1

REVISED ON 1/24/2022



FILENAME: Z313-260-LANDSCAPE PLAN.DWG PATH: Q:\DATA\Z313\DESIGN\CAD\ACTIVE PLOTTED BY: VROLLAMAS

LANDSCAPE LEGENDS

- TREE TO BE REMOVED. HAND EXCAVATE AROUND EX. TREES + ROOTS.
- PROTECT TREE DURING CONSTRUCTION OF PROPOSED WORK AS SHOWN. EXCAVATION WITHIN THIS AREA TO BE PERFORMED WITH CARE TO MINIMIZE ROOT DAMAGE
- 4' X 15' X 30" DEEP - BACKFILL SOIL MIXTURE TREE PIT / PANEL. THE LENGTH, WIDTH AND DEPTH OF EACH INDIVIDUAL TREE PIT SHALL BE DOCUMENTED WITH A CLEARLY LABELED PHOTOGRAPH USING A RIGID TAPE MEASURE. THE PHOTOGRAPHS SHALL BE E-MAILED TO THE COUNTY CONSTRUCTION MANAGER AND /OR PROJECT OFFICER FOR APPROVAL PRIOR TO THE TREE PITS BEING FILLED WITH APPROVED TOPSOIL. SEE DETAIL SHEET C091.2
- PROPOSED TREE LOCATIONS. LOCATION MAY BE ADJUSTED BASED ON FINAL GRADING AND UTILITIES. SEE SHEET C091.2 FOR PLANT LIST.
- PROP SOD AREA

PROPOSED LANDSCAPE PLANTING BY OTHERS.

ARLINGTON VIRGINIA

Approved: 9/13/2023
Subject to field inspection
LDAP23-00060

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
GINO SQUARCIAFICO
No. 42698
06/30/2023
PROFESSIONAL ENGINEER

APPROVALS	DATE
QUALITY CONTROL ENGINEER	
CONSTRUCTION MANAGEMENT SUPERVISOR	
WATER, SEWER, STREETS BUREAU CHIEF	
ENGINEERING BUREAU CHIEF	
PROJECT MANAGER	

REVISIONS	DATE

15TH STREET N
2313
N INGLEWOOD ST TO N KENILWORTH ST

LANDSCAPE PLAN

DESIGNED: V. ROLLAMAS
DRAWN: V. ROLLAMAS
CHECKED: G SQUARCIAFICO

PLOTTED: AUGUST 31 2023

SCALE: 1"=25'

0 25 50
GRAPHIC SCALE

C091.1

15TH STREET N Z313

REVISED ON 1/24/2022

NOTES
1. PRUNE ONLY BROKEN OR DEAD BRANCHES, AND REMOVE COMPETING LEADERS IF NECESSARY PER ANSI A300 STANDARD.

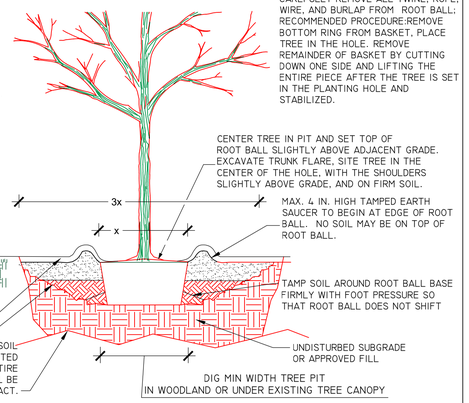
2. UNLESS OTHERWISE DIRECTED BY ARLINGTON COUNTY URBAN FORESTER OR LANDSCAPE ARCHITECT, BACKFILL WILL BE EXISTING SOIL ONLY. THE TOP 6-8" WILL BE MIXED WITH APPROVED FULLY COMPOSTED ORGANIC MATERIAL.

3. FERTILIZATION IS TO BE DONE PER SPECIFICATIONS AND BY SOIL TEST ONLY.

4. CONTRACTOR SHALL REMOVE EXCESS SOIL & DEBRIS FROM SITE AND DISPOSE OF IT LEGALLY.

5. SEE STAKING DETAIL WHEN STAKING IS REQUIRED.

6. ALL TREES MUST BE WATERED IMMEDIATELY AFTER PLANTING AND AFTER 48 HOURS. EXCEPTIONS FOR WEATHER MUST BE APPROVED.



TREE PLANTING DETAIL

NOT TO SCALE

329300.1 (2023.TEMP)

ARLINGTON VIRGINIA DPR

NOTES

1. NOTIFY THE DPR URBAN FORESTER AT LEAST 72 HOURS IN ADVANCE OF THE SCHEDULED INSTALLATION OF TREE PITS AND PLANTING OF ANY STREET TREES FOR INSPECTION.

2. 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.

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

4. 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.

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

6. 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.

7. TREE PIT AND TREE STRIP PLANTING AREA DIMENSIONS: SEE PLAN

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

9. 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.

10. 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.

11. 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.

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

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

14. 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.

15. 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.

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

GENERAL NOTES FOR STREET TREE PLANTINGS

FOR TREES PLANTED IN RIGHT-OF-WAY
329300.5 (2020)

ARLINGTON VIRGINIA DPR

LANDSCAPING NOTES AND LEGEND

1. TREE PLANTING BY OTHERS. TREES SHALL BE INSTALLED AFTER HARDSCAPE CONSTRUCTION IS COMPLETED, IN THE NEXT PLANTING SEASON.
2. CONTRACTOR TO COORDINATE SPECIES WITH THE COUNTY LANDSCAPE ARCHITECT AND COUNTY URBAN FORESTER.
3. TREES TO HAVE TREE TAGS FOR INSPECTION PRIOR TO INSTALLATION. CONTRACTOR TO CALL THE COUNTY URBAN FORESTER AT 703-228-1863, 72 HOURS BEFORE PLANTING TO SCHEDULE INSPECTION OF THE TREES TO BE PLANTED.
4. THE CONTRACTOR IS RESPONSIBLE FOR CALLING MISS UTILITY PRIOR TO THE SCHEDULED DATE FOR PLANT INSTALLATION.
5. TREES TO BE INSTALLED PER CONTRACT SPECIFICATIONS.
6. FOLLOW ADMINISTRATIVE REGULATION 4.3: TREE PLANTING ON PUBLIC PROPERTY FOR ALL TREE PLANTINGS.
7. CONTRACTOR TO PLANT THE TREES ACCORDING TO ARLINGTON COUNTY DPR DESIGN STANDARD DETAIL 329300.1 (ON FLAT LAND) OR 329300.2 (ON SLOPES).
8. BRANCHES ON PROPOSED TREES WHICH ARE LESS THAN 4' ABOVE GRADE SHALL BE TRIMMED TO MAINTAIN SIGHT DISTANCE.
9. WARRANTY FOR 1 YEAR AFTER PLANTING SHALL BE THE CONTRACTOR'S RESPONSIBILITY. THE COUNTY URBAN FORESTER AND DPR IS RESPONSIBLE FOR INSPECTION. THE COUNTY URBAN FORESTER WILL COORDINATE WITH DPR STAFF ON SCHEDULING INSPECTIONS 2 YEARS AFTER PLANTING TO ASSUME RESPONSIBILITY.
10. WATERING FOR 2 YEARS AFTER PLANTING IS TO BE INCLUDED FOR NEWLY-PLANTED TREES. DPR WILL TAKE RESPONSIBILITY OF OTHER MAINTENANCE, AND AFTER 2 YEARS, WATER AS NEEDED.

PROPOSED TOPSOIL AND SEED

1. AREAS OF PROPOSED TOPSOIL AND SEED ARE SHOWN ON THE TYPICAL ROADWAY SECTIONS ON SHEET C004.1.

EXISTING TREES

1. FOR THOSE EXISTING TREES TO BE PROTECTED OR REMOVED, SEE E&S PLAN ON SHEETS C041.1.

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.
   CONTRACTOR TO PREPARE TREE PLANTING STRIPS FOR THE REPLACEMENT TREES ACCORDING TO ARLINGTON COUNTY DPR DESIGN STANDARD DETAIL 3293000.4A, 329300.4B.
   1.1. ALL PLANTS TO HAVE TREE TAGS FOR INSPECTION PRIOR TO INSTALLATION
   1.2. ALL PLANTS TO BE INSTALLED PER CONTRACT SPECIFICATIONS
   1.3. THE CONTRACTOR IS RESPONSIBLE FOR CALLING MS. UTILITY PRIOR TO THE SCHEDULED DATE FOR PLANT INSTALLATION.
2. CONTRACTOR TO PREPARE STREET TREE PLANTING PITS ACCORDING TO THE ARLINGTON COUNTY DPR DESIGN STANDARD DETAIL 329300.3A, 329300.3B AND 329300.11C
3. CONTRACTOR TO PLANT THE TREES ACCORDING TO ARLINGTON COUNTY DPR DESIGN STANDARD DETAIL 329300.1 (ON FLAT LAND) OR 329300.2 (ON SLOPES)

TARA-LEEWAY HEIGHTS: Z313 15th St N - Inglewood to Kenilworth - PLANT LIST

Key	Qty.	Botanical Name	Common Name	Size/Cal.	Cond.	Spacing	Remarks
Deciduous Trees							
QS	1	*Quercus shumardii*	Shumard Oak	2" cal.	B&B	As Shown	Single Trunk, Full Specimen
QB	2	*Quercus bicolor*	Swamp White Oak	2" cal.	B&B	As Shown	Single Trunk, Full Specimen
QP	3	*Quercus palustric*	Pin Oak	2" cal.	B&B	As Shown	Single Trunk, Full Specimen

Notes:
1. Trees to have tree tags for inspection prior to installation.
2. Trees to be installed per contract specifications.
3. The contractor is responsible for calling Miss Utility prior to the scheduled date for plant installation.
4. Sod to be replaced as shown on plan. Area to be graded smooth prior to sod and plant installation.

PROPOSED LANDSCAPE PLANTING BY OTHERS.

ARLINGTON VIRGINIA

Approved: 9/13/2023
Subject to field inspection
LDAP23-00060

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
GINO SQUARCIAFICO
No. 043388
06/30/2023
PROFESSIONAL ENGINEER

APPROVALS DATE

QUALITY CONTROL ENGINEER

CONSTRUCTION MANAGEMENT SUPERVISOR

WATER, SEWER, STREETS BUREAU CHIEF

ENGINEERING BUREAU CHIEF

PROJECT MANAGER

REVISIONS DATE

15TH STREET N
Z313
N INGLEWOOD ST TO N KENILWORTH ST

LANDSCAPE NOTES & DETAILS

DESIGNED: V. ROLLAMAS
DRAWN: V. ROLLAMAS
CHECKED: G SQUARCIAFICO

PLOTTED: AUGUST 31 2023

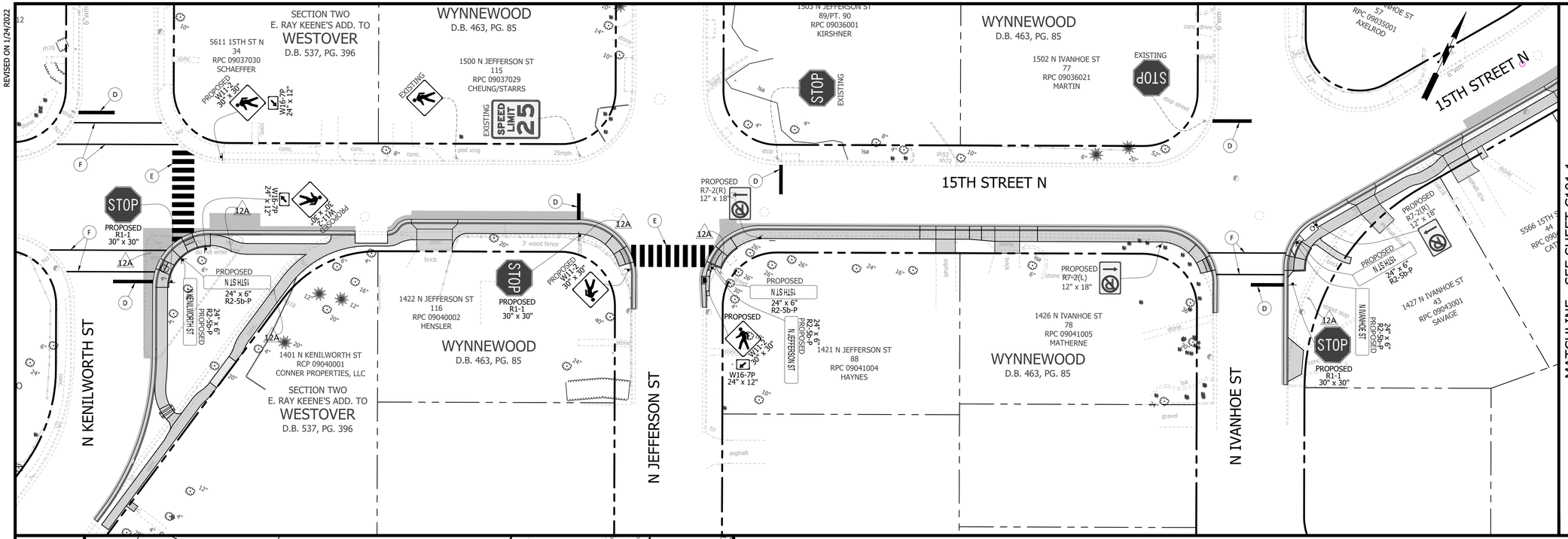
SCALE:

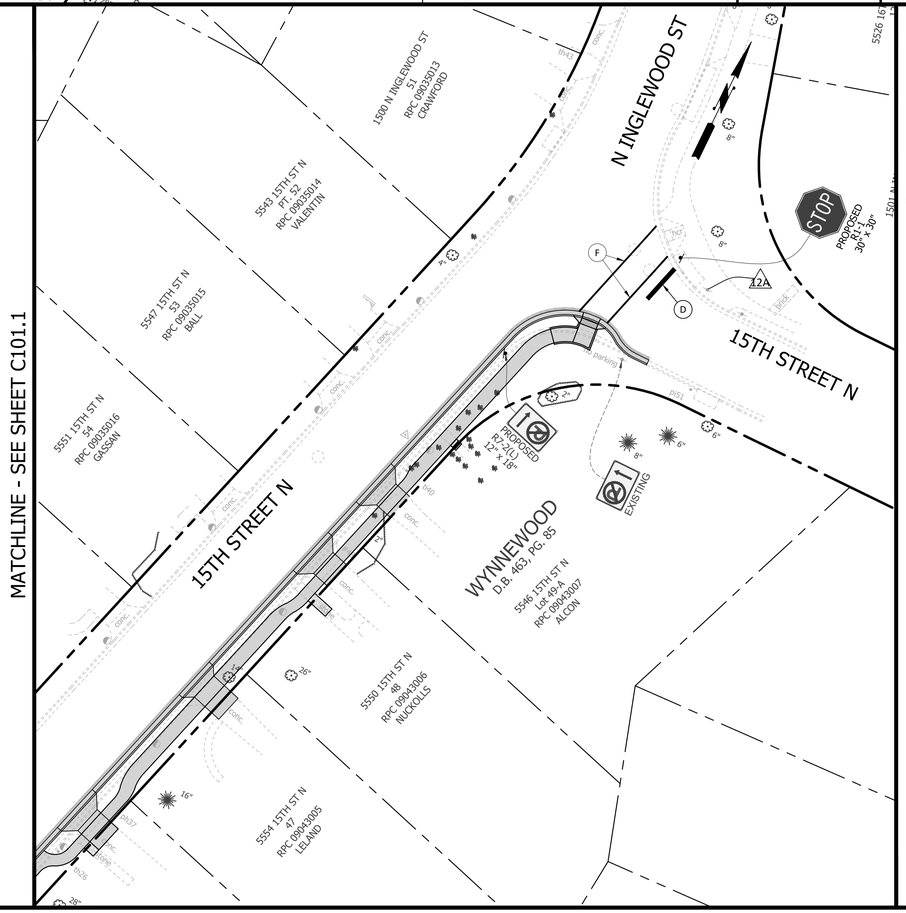
NOT TO SCALE

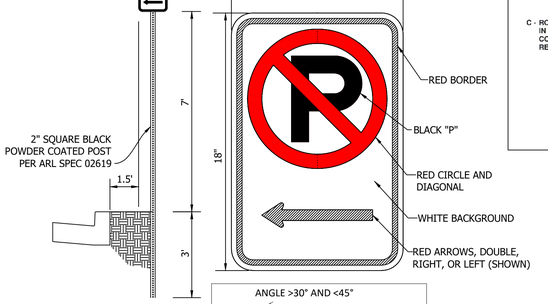
C091.2

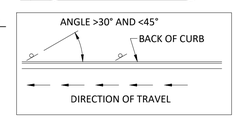
FILENAME: Z313-260-LANDSCAPE PLAN.DWG PATH: Q:\DATA\Z313\DESIGN\CAD\ACTIVE PLOTTED BY: VROLLAMAS

REVISED ON 1/24/2022

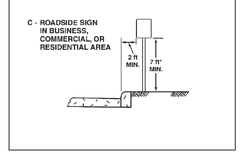








NOTES:
1. PARKING SIGN TO BE MUTCD R7-2 WITH ARROW.
2. WHERE POSSIBLE SIGNS SHOULD BE MOUNTED TO LIGHT POLE WITH STAINLESS STEEL BANDS.
3. DRIVING CAP TO BE USED WHEN DRIVING POST



PROPOSED SIGNS

NAME	TYPE	SIZE	NUMBER
STOP SIGN	R1 - 1	30" x 30"	4
NO PARKING (LEFT ARROW)	R7 - 2 (L)	12" x 18"	2
NO PARKING (RIGHT ARROW)	R7 - 2 (R)	12" x 18"	2
PEDESTRIAN	W11 - 2	30" x 30"	4
DOWNWARD DIAGONAL ARROW (PLAQUE)	W16 - 7P	24" x 12"	3
NEIGBHORHOOD (PLAQUE)	R2 - 5bP	24" x 6"	6

STRIPING LEGEND

(A) EXISTING STRIPING

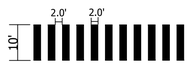
(A) PROPOSED STRIPING

LEGEND

EXISTING	PROPOSED
	BUS STOP
	FIRE HYDRANT
	PARKING METER
	SIGN

CONSTRUCTION NOTES

12A REMOVE EXISTING SIGN



HIGH VISIBILITY CROSSWALK
NOT TO SCALE

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 TRANSPORTATION ENGINEERING & OPERATIONS CONSTRUCTION MANAGER OR HIS DESIGNEE AT 703-228-6598 OR (571) 437-1077 TO APPROVE MARKING LAYOUT 48 HRS. PRIOR TO INSTALLATION OF MARKING.
3. PAVEMENT MARKINGS TO BE IN ACCORDANCE WITH THE FOLLOWING:
   A.) THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
   B) ARLINGTON COUNTY PAVEMENT MARKING SPECIFICATIONS.
4. ALL MARKINGS SHALL BE THERMOPLASTIC PER ARLINGTON COUNTY MARKING STANDARDS UNLESS OTHERWISE NOTED.
5. SHARED LANE MARKINGS SHALL BE PLACED IN CENTER OF TRAVEL LANE.
6. FOR DETAILS SEE ARLINGTON COUNTY PAVEMENT MARKING SPECIFICATIONS.

SIGN NOTES:

1. FOR ALL SIGN POSTS PLACED IN CONCRETE USE 7 GAUGE HEAVY DUTY ANCHOR (30"X2.50") WITH HARDWARE FOR 2" POST. USE 5/16" CORNER BOLT WITH FLANGED NUT AND 3/8" DRIVER RIVET WITH WASHER.
2. CONTACT TRANSPORTATION ENGINEERING & OPERATIONS CONSTRUCTION MANAGER OR HIS DESIGNEE AT 703-228-6598 OR 571-437-1077 48 HRS PRIOR TO POURING CONCRETE. ALTERNATIVE CONTACT AT 703-228-3788 OR 571-414-7497.

STANDARD PAVEMENT MARKING LEGEND

(A)	TYPE B CLASS 1	WHITE 4" WIDTH	PARKING LANES, EDGE LINES, LANE LINES
(B)	TYPE B CLASS 1	WHITE 4" WIDTH, 10' LONG, 30' SPACING	DASHED LANE LINES
(C)	TYPE B CLASS 1	WHITE 4" WIDTH, 2' LONG 10' SPACING	LANE TRANSITIONS, TURN LANE SKIPS
(D)	TYPE B CLASS 1	WHITE 18" WIDTH	STOP BARS
(E)	TYPE B CLASS 1	WHITE 24" WIDTH	CONTINENTAL CROSS WALKS
(F)	TYPE B CLASS 1	WHITE 6" WIDTH	TURN LANES, TRANSVERSE CROSS WALKS, BIKE LANES
(G)	TYPE B CLASS 1	YELLOW 4" WIDTH, 10' LONG, 30' SPACING	DIVIDED TRAFFIC, TWO WAY TURN LANES
(H)	TYPE B CLASS 1	YELLOW 4" WIDTH	EDGE LINES
(I)	TYPE B CLASS 1	YELLOW 4" WIDTH, DOUBLE LINE, 4" SPACING	CENTERLINES
(J)	TYPE B CLASS 1	WHITE 6" WIDTH, 10' SPACING @45 DEGREE	HATCH LINES, SAFETY ZONES
(K)	TYPE B CLASS 1	WHITE SINGLE ARROW	TURN LANES
(L)	TYPE B CLASS 1	WHITE COMBINATION ARROW	TURN LANES
(M)	TYPE B CLASS 1	WHITE 8' LETTERS	PAVEMENT LETTERS (STOP, YIELD, BUS, ONLY, etc.)
(N)	TYPE B CLASS 1	WHITE 6" WIDTH, 2' LONG, 10' SPACING	LANE TRANSITIONS, TURN LANE SKIPS
(O)	TYPE B CLASS 1	WHITE 12" WIDTH, 20' SPACING @45 DEGREE	GORE MARKINGS
(P)	TYPE B CLASS 1	YELLOW 8" WIDTH @45 DEGREE	GORE MARKINGS
(Q)	TYPE B CLASS 1	WHITE 6" WIDTH, 2' LONG, 4' SPACING	LANE TRANSITIONS
(R)	TYPE B CLASS 1	WHITE 4" WIDTH, DOUBLE LINE, 4" SPACING	CURB EXTENSIONS
(S)	TYPE B CLASS 1	WHITE 24" WIDTH	VDOT - STOP BARS
(T)	TYPE B CLASS 1	YELLOW 6" WIDTH, 2' LONG, 4' SPACING	LANE TRANSITIONS

ARLINGTON VIRGINIA

Approved: 9/13/2023
Subject to field inspection
LDAP23-00060

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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COMMONWEALTH OF VIRGINIA
GINO SQUARCIAFICO
No. 42588
06/30/2023
PROFESSIONAL ENGINEER

APPROVALS	DATE
QUALITY CONTROL ENGINEER	
CONSTRUCTION MANAGEMENT SUPERVISOR	
WATER, SEWER, STREETS BUREAU CHIEF	
ENGINEERING BUREAU CHIEF	
PROJECT MANAGER	

REVISIONS	DATE

15TH STREET N
Z313
N INGLEWOOD ST TO N KENILWORTH ST

SIGNING AND PAVEMENT MARKING PLAN

DESIGNED: V. ROLLAMAS
DRAWN: V. ROLLAMAS
CHECKED: G SQUARCIAFICO

PLOTTED: AUGUST 31 2023

SCALE: 1"=25'

0 25 50
HORIZ. SCALE

C101.1

15TH STREET N Z313

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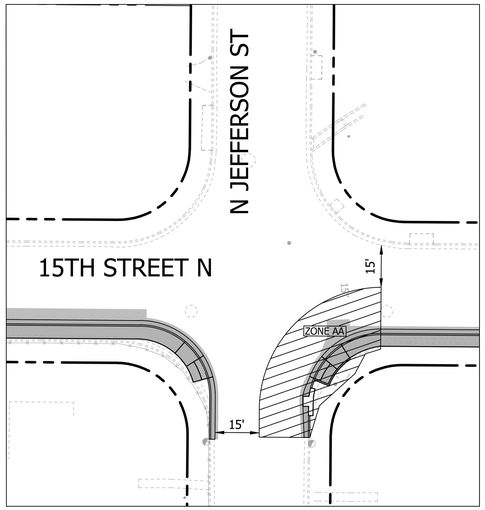
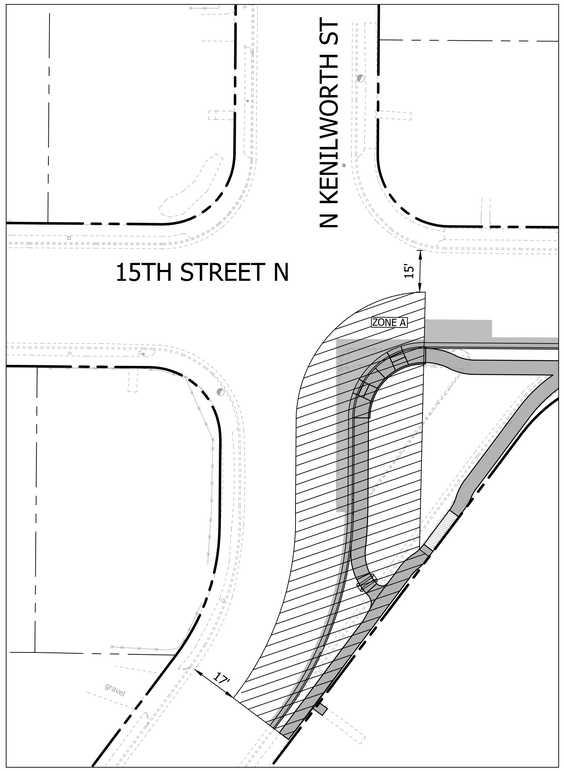
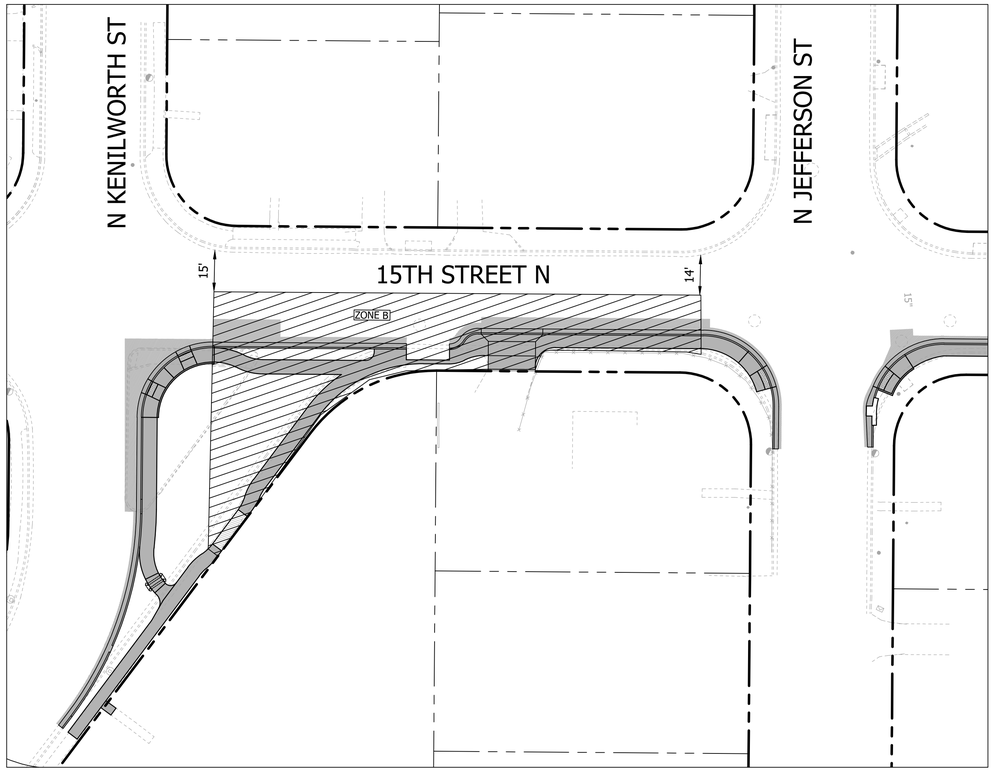
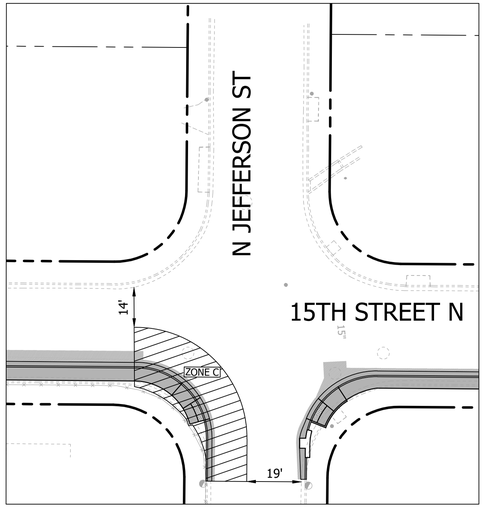
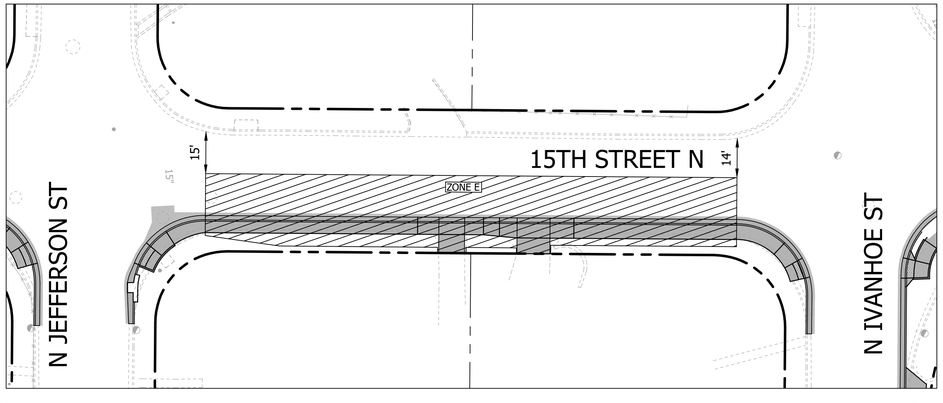
REVISED ON 1/24/2022

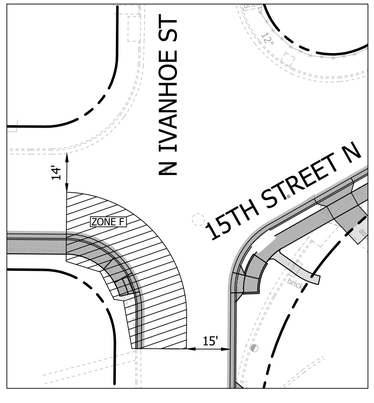


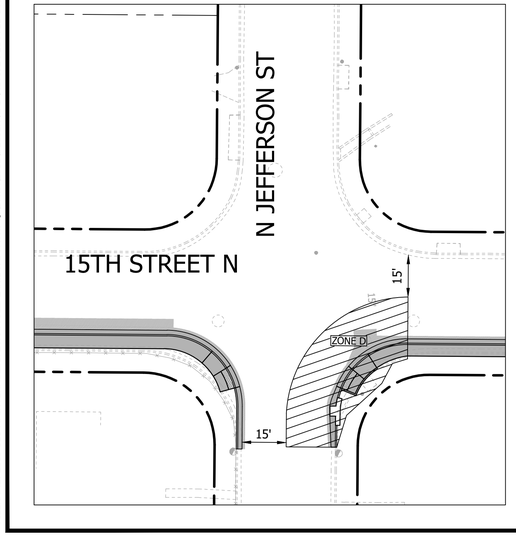












ZONE TABLE

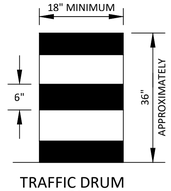
ZONE #	TTC#		COMMENTS	MAXIMUM DURATION	WORK HOURS
	VEHICULAR	PEDESTRIAN			
AA	TTC- 28.2		LANE CLOSURE OPERATION IN AN INTERSECTION	1 WEEK - 1 MONTH	9:00 AM TO 4:00 PM
A	TTC- 28.2	TTC - 36.2	LANE CLOSURE OPERATION IN AN INTERSECTION & CROSSWALK CLOSURE AND PEDESTRIAN DETOUR OPERATION	1 WEEK - 1 MONTH	9:00 AM TO 4:00 PM
B	TTC- 23.2	TTC - 36.2	LANE CLOSURE ON A TWO-LANE ROADWAY USING FLAGGERS & CROSSWALK CLOSURE AND PEDESTRIAN DETOUR OPERATION	1 WEEK - 1 MONTH	9:00 AM TO 4:00 PM
C	TTC - 28.2		LANE CLOSURE OPERATION IN AN INTERSECTION	1 WEEK - 1 MONTH	9:00 AM TO 4:00 PM
D	TTC- 28.2		LANE CLOSURE OPERATION IN AN INTERSECTION	1 WEEK - 1 MONTH	9:00 AM TO 4:00 PM
E	TTC- 23.2		LANE CLOSURE ON A TWO-LANE ROADWAY USING FLAGGERS	1 WEEK - 1 MONTH	9:00 AM TO 4:00 PM
F	TTC- 28.2		LANE CLOSURE OPERATION IN AN INTERSECTION	1 WEEK - 1 MONTH	9:00 AM TO 4:00 PM

ZONE NOTES:

1. THE FOLLOWING ZONES CAN NOT BE BUILT AT THE SAME TIME : AA, A , B, C, D, E, & F — APPLIED TO ALL ZONES
2. WARNING SIGN SPACING : 100' CHANNELIZATION DEVICES SPACING FOR TRANSITION A AREAS = 20'

LEGEND:

- ARROW PANEL
- ARROW PANEL ON TRAILER
- AREA UNDER CONSTRUCTION
- AREA CONSTRUCTED IN PREVIOUS PHASE
- SUB-PHASE OF AREA UNDER CONSTRUCTION
- TRAFFIC FLOW
- TRAFFIC DRUM
- 2" X 36" TUBULAR MARKERS
- ARROW PANEL ON TRAILER
- SIGN
- TYPE III BARRICADE
- FLAGGER



TRAFFIC DRUM
N.T.S.

ARLINGTON VIRGINIA

Approved: 9/13/2023
Subject to field inspection
LDAF23-00060

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
GINO SQUARCIAFICO
No. 043698
PROFESSIONAL ENGINEER
06/30/2023

APPROVALS	DATE
QUALITY CONTROL ENGINEER	
CONSTRUCTION MANAGEMENT SUPERVISOR	
WATER, SEWER, STREETS BUREAU CHIEF	
ENGINEERING BUREAU CHIEF	
PROJECT MANAGER	

REVISIONS	DATE

15TH STREET N
Z313
N INGLEWOOD ST TO N KENILWORTH ST

MAINTENANCE OF TRAFFIC PLAN

DESIGNED: V. ROLLAMAS
DRAWN: V. ROLLAMAS
CHECKED: G. SQUARCIAFICO

PLOTTED: AUGUST 31 2023

SCALE: 1"=25'

0 25 50
GRAPHIC SCALE

C121.1

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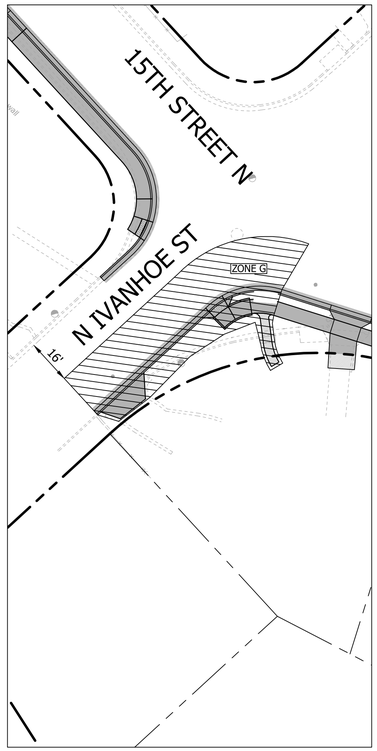
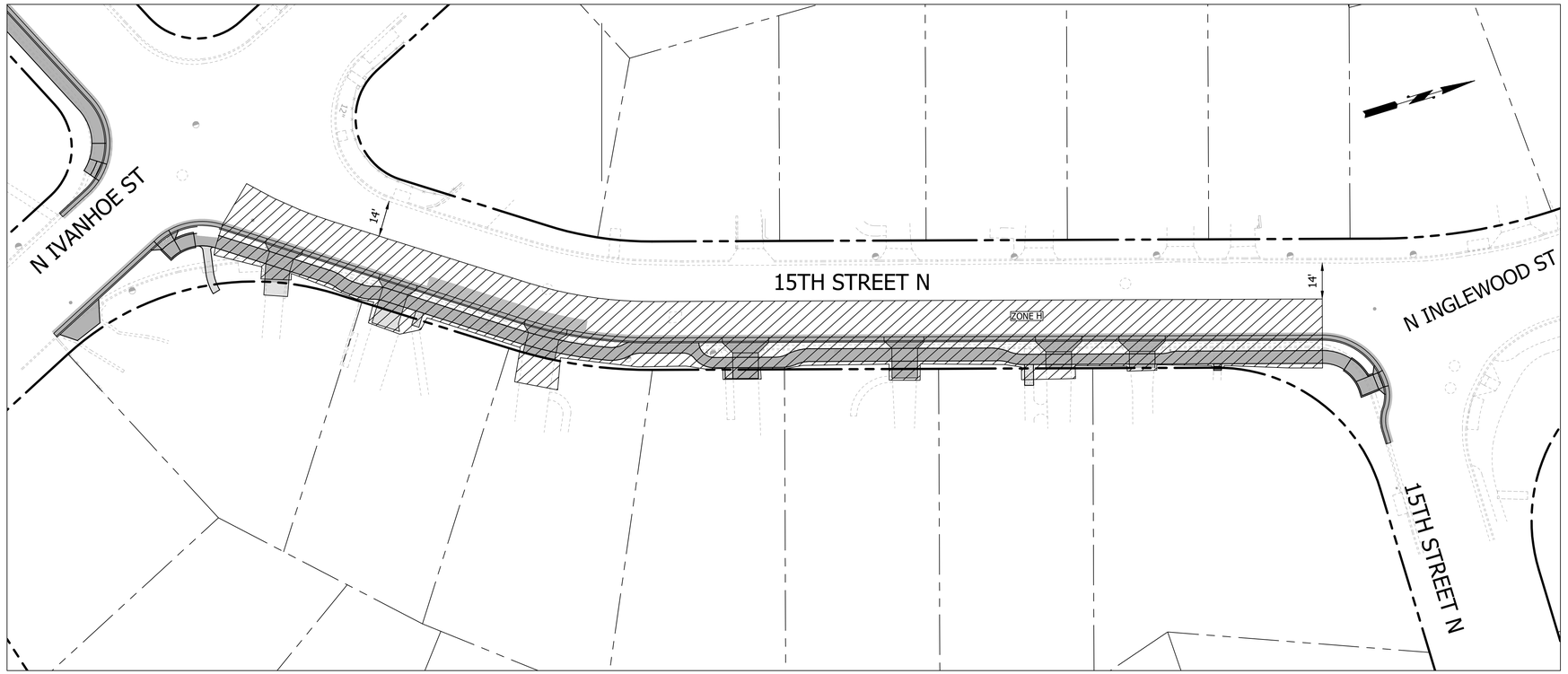
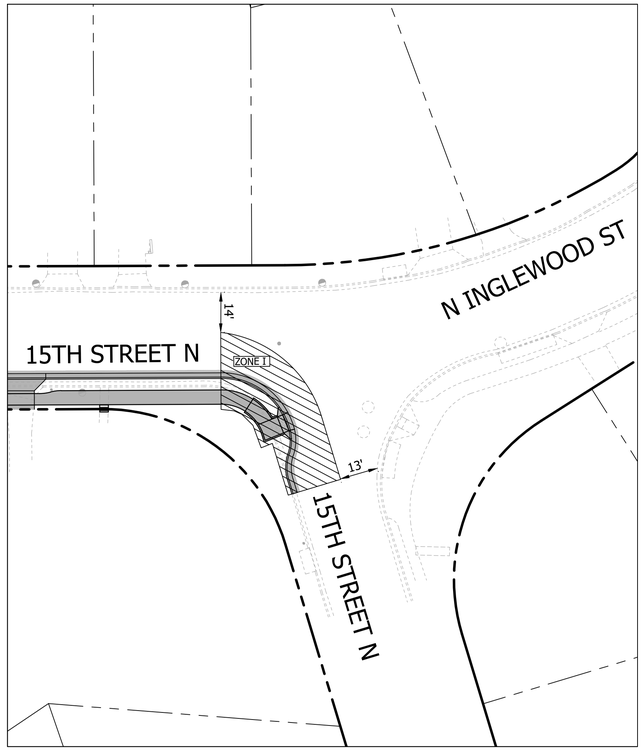
REVISED ON 1/24/2022







ZONE TABLE

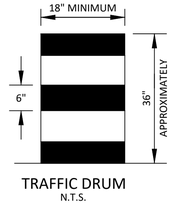
ZONE #	TTC#		COMMENTS	MAXIMUM DURATION	WORK HOURS
	VEHICULAR	PEDESTRIAN			
G	TTC- 28.2		LANE CLOSURE OPERATION IN AN INTERSECTION	1 WEEK - 1 MONTH	9:00 AM TO 4:00 PM
H	TTC- 23.2		LANE CLOSURE ON A TWO-LANE ROADWAY USING FLAGGERS	1 WEEK - 1 MONTH	9:00 AM TO 4:00 PM
I	TTC - 28.2		LANE CLOSURE OPERATION IN AN INTERSECTION	1 WEEK - 1 MONTH	9:00 AM TO 4:00 PM

ZONE NOTES:

1. THE FOLLOWING ZONES CAN NOT BE BUILT AT THE SAME TIME :
   G , H AND I — APPLIED TO ALL ZONES
2. WARNING SIGN SPACING :
   100' CHANNELIZATION DEVICES SPACING FOR TRANSITION A AREAS = 20' — APPLIED TO ALL ZONES

LEGEND:

- ARROW PANEL
- ARROW PANEL ON TRAILER
- AREA UNDER CONSTRUCTION
- AREA CONSTRUCTED IN PREVIOUS PHASE
- SUB-PHASE OF AREA UNDER CONSTRUCTION
- TRAFFIC FLOW
- TRAFFIC DRUM
- 2" X 36" TUBULAR MARKERS
- ARROW PANEL ON TRAILER
- SIGN
- TYPE III BARRICADE
- FLAGGER



TRAFFIC DRUM
N.T.S.

ARLINGTON VIRGINIA

Approved: 9/13/2023
Subject to field inspection
#LDAP23-00060

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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COMMONWEALTH OF VIRGINIA
GIDO SQUARCIAFICO
No. 040.019698
06/30/2023
PROFESSIONAL ENGINEER

APPROVALS	DATE
QUALITY CONTROL ENGINEER	
CONSTRUCTION MANAGEMENT SUPERVISOR	
WATER, SEWER, STREETS BUREAU CHIEF	
ENGINEERING BUREAU CHIEF	
PROJECT MANAGER	

REVISIONS	DATE

MAINTENANCE OF TRAFFIC PLAN

15TH STREET N
Z313
N INGLEWOOD ST TO N KENILWORTH ST

DESIGNED: V. ROLLAMAS
DRAWN: V. ROLLAMAS
CHECKED: G. SQUARCIAFICO

PLOTTED: AUGUST 31 2023

SCALE: 1"=25'

0 25 50
GRAPHIC SCALE

C121.2

FILENAME: Z313-121-MAINTENANCE_OF_TRAFFIC_PLAN.DWG PATH: Q:\DATA\Z313\DESIGN\CAD\ACTIVE PLOTTED BY: VROLLAMAS

REVISED ON 1/24/2022

Typical Traffic Control
Lane Closure on a Two-Lane Roadway Using Flaggers
(Figure TTC-23.2)

NOTES

Guidance:

1. *Sign spacing distance should be 350'-500' where the posted speed limit is 45 mph or less, and 500'-800' where the posted speed limit is greater than 45 mph.*
2. *Care should be exercised when establishing the limits of the work zone to insure maximum possible sight distance in advance of the flagger station and transition, based on the posted speed limit and at least equal to or greater than the values in Table 6H-3. Generally speaking, motorists should have a clear line of sight from the graphic flagger symbol sign to the flagger.*
3. *To maintain efficient traffic flow in a flagging operation on a two-lane roadway, the maximum time motorists should be stopped at a flagger station is 8 minutes for high volume roadways (average daily traffic of 500 or more vehicles per day) to a maximum of 12 minutes for low volume roadways (less than 500 vehicles per day). For additional information see Section 6E.07.*[2]

Standard:

4. **Portable Temporary Rumble Strips (PTRS) shall be used as noted in Section 6F.99.**
5. **Flagging stations shall be located far enough in advance of the work space to permit approaching traffic to reduce speed and/or stop before passing the work space and allow sufficient distance for departing traffic in the left lane to return to the right lane before reaching opposing traffic (see Table 6H-3 on Page 6H-5).**
6. **All flaggers shall be state certified and have their certification card in their possession when performing flagging duties (see Section 6E.01, Qualifications for Flaggers).**
7. **Cone spacing shall be based on the posted speed and the values in Table 6H-4 on Page 6H-6.**[1]
8. **A shadow vehicle with at least one high intensity amber rotating, flashing, or**[1] **oscillating light shall be parked 80'-120' in advance of the first work crew.**

Option:

8. A SLOW (W21-V10) sign[2] may be required in this area to give advance warning of the operation ahead by slowing approaching traffic prior to reaching the flagger station or queued traffic.

Guidance:

9. *If the queue of traffic reaches the BE PREPARED TO STOP (W3-4) sign then the signs, and if used the* PTRS[1] *should be readjusted at greater distances.*
10. *When a highway-rail crossing exists within or upstream of the transition area and it is anticipated that queues resulting from the lane closure might extend through the highway-rail grade crossing, the temporary traffic control zone should be extended so that the transition area precedes the highway-rail crossing (see Figure TTC-56 for additional information on highway-rail crossings).*

Standard:

11. **At night, flagger stations shall be illuminated, except in emergencies (see Section 6E.08).**

Option:

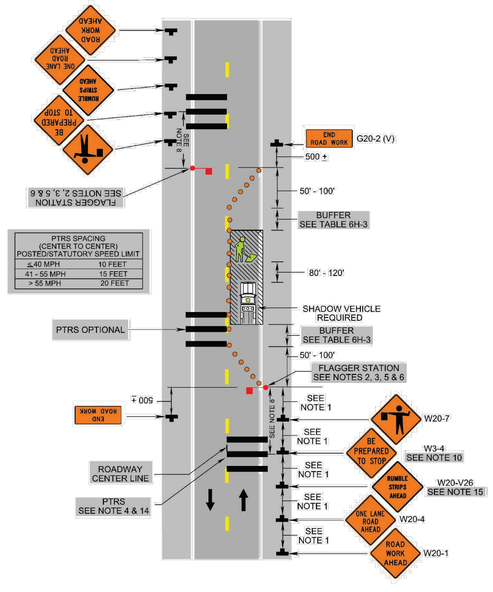
12. Cones may be eliminated when using a pilot vehicle operation or when the total roadway width is 20 feet or less.
13. For low-volume situations with short work zones on straight roadways where the flagger is visible to road users approaching from both directions, a single flagger, positioned to be visible to road users approaching from both directions, may be used (see Chapter 6E).

Standard:[1]

14. **When used**[2]**, three portable temporary rumble (PTRS) strips shall be installed across the entire travel lane adjacent to the BE PREPARED TO STOP (W3-4) sign. The portable temporary rumble strips shall be monitored and adjusted as necessary during the work shift to ensure proper placement on the roadway. When the PTRS are installed, the RUMBLE STRIPS AHEAD (W20-V26) sign shall also be utilized.**

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

Lane Closure on a Two-Lane Roadway Using Flaggers
(Figure TTC-23.2)



1: Revision 1 – 4/1/2015
2: Revision 2 – 9/1/2019
3: Revision 2.1 – 11/1/2020

Typical Traffic Control
Lane Closure Operation in an Intersection
(Figure TTC-28.2)

NOTES

Guidance:

1. *The control of traffic through the intersection in order of preference should be:*
   a. *Obtain the services of law enforcement personnel.*
   b. *Detour the effective routes to other roads and streets as approved and directed by the District*[2] *Traffic Engineer.*
   c. *Place a state certified flagger on each leg of the intersection controlling a single lane of traffic.*

   Appropriate signing as shown should be used for law enforcement and flagging operations. For detour signs see Figure TTC-34.
2. *Sign spacing distance should be 350'-500' where the posted speed limit is 45 mph or less, 500'-800' where the posted speed limit is greater than 45 mph.*
3. *To maintain efficient traffic flow in a flagging operation on a two-lane roadway the maximum time motorist should be stopped at a flagger station is 8 minutes for high volume roadways (average daily traffic of 500 or more vehicles per day) to a maximum of 12 minutes for low volume roadways (less than 500 vehicles per day). For additional information see Section 6E.07.*[2]

Standard:

4. **Channelizing device spacing shall be on 20' centers or less.**
5. **PTRS shall be used as noted in Section 6F.99.**

Guidance:

6. *If room permits, a shadow vehicle with at least one rotating amber light or high intensity amber flashing or oscilllating*[1] *light should be parked 80'-120' in advance of the first work crew.*

Standard:

7. **For emergency situations (any non-planned operation) of 30 minutes or less duration, two rotating amber lights or high intensity amber flashing or oscillating**[1] **lights mounted on the vehicle and visible for 360° shall be required in addition to the channelizing devices shown around the vehicle. Also, vehicle hazard warning signals shall be used.**

Guidance:

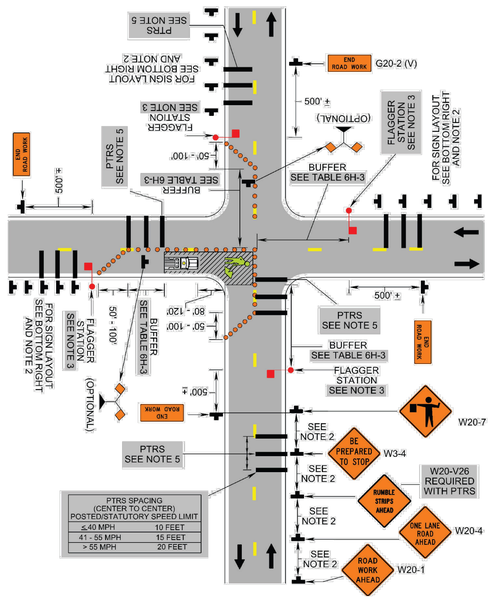
8. *If the work space extends across a crosswalk, the crosswalk should be closed using the information and devices shown in Figure TTC-36.*

Support:

9. Turns can be prohibited as required by vehicular traffic conditions. Unless the streets are wide, it might be physically impossible to make certain turns, especially for large vehicles.

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

Lane Closure Operation in an Intersection
(Figure TTC-28.2)



2: Revision 2 – 9/1/2019

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

NOTES

Standard:

1. **When crosswalks or other pedestrian facilities are closed or relocated, temporary facilities shall be detectable and shall include accessibility features consistent with the features present in the existing pedestrian facility.**
2. **Curb parking shall be prohibited for at least 50 feet in advance of the midblock crosswalk.**

Guidance:

3. *Audible information devices should be considered where midblock closings and changed crosswalk areas cause inadequate communication to be provided to pedestrians who have visual disabilities.*
4. *Pedestrian traffic signal displays controlling closed crosswalks should be covered or deactivated.*
5. *Temporary markings should be considered for operations exceeding three days in duration.*

Option:

6. Only the TTC devices related to pedestrians are shown. Other devices, such as lane closure signing or ROAD NARROWS (W5-1) signs, may be used to control vehicular traffic.
7. For nighttime closures, Type A Flashing warning lights may be used on barricades supporting signs and closing sidewalks.

Standard:

8. **In order to maintain the systematic use of the fluorescent yellow-green background for school warning signs in a jurisdiction, the fluorescent yellow-green background for school warning signs shall be used in TTC zones.**[2]
9. **All sidewalk closures shall be closed with Type 3 Barricades. The SIDEWALK CLOSED (R9-9) sign and the SIDEWALK CROSS HERE (R9-11) sign shall be installed above the Type 3 Barricade. The KEEP RIGHT sign can cover the top rail of the Type 3 Barricade.**[2]

Support:

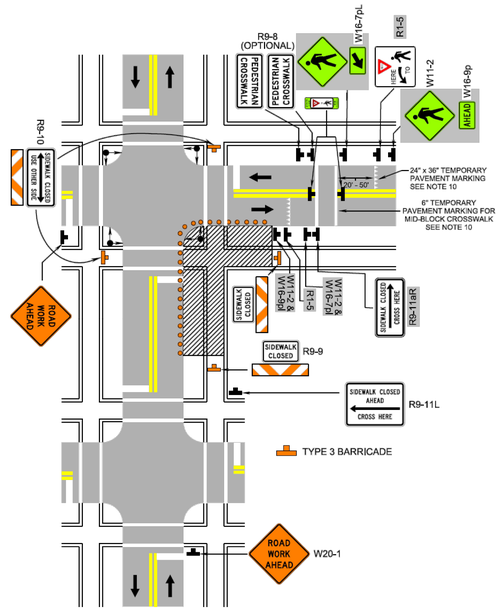
10. Refer to Sections 3B-16 through 3B-18 of the 2009 MUTCD and the Virginia Supplement to the MUTCD[1] for crosswalk[1] lines, yield lines and other related TTC devices that may be used to control vehicular traffic at midblock crosswalks.

Standard:[2]

11. **The YIELD HERE TO PEDESTRIANS (R1-5) sign shall be placed at the Yield Line.**
12. **Fluorescent yellow-green PEDESTRIAN TRAFFIC (W11-2) symbol sign, AHEAD (W16-9p) plaque and ARROW (W16-7p) plaque shall be used to identify the work zone crosswalk.**

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

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



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

ARLINGTON VIRGINIA
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Subject to field inspection
LDAP23-00060

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
GINO SQUARCIAFICO
No. 19288
PROFESSIONAL ENGINEER
06/30/2023

APPROVALS DATE

QUALITY CONTROL ENGINEER

CONSTRUCTION MANAGEMENT SUPERVISOR

WATER, SEWER, STREETS BUREAU CHIEF

ENGINEERING BUREAU CHIEF

PROJECT MANAGER

REVISIONS DATE

15TH STREET N
Z313
N INGLEWOOD ST TO N KENILWORTH ST

MAINTENANCE OF TRAFFIC NOTES & DETAILS

DESIGNED: V. ROLLAMAS
DRAWN: V. ROLLAMAS
CHECKED: G. SQUARCIAFICO

PLOTTED: AUGUST 31 2023

SCALE:

AS SHOWN

C122.1

FILENAME: Z313-121-MAINTENANCE_OF_TRAFFIC_PLAN.DWG PATH: Q:\DATA\Z313\DESIGN\CAD\ACTIVE PLOTTED BY: VROLLAMAS

REVISED ON 1/24/2022

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.

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 - PERMITTING, 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.

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.

ARLINGTON VIRGINIA

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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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COMMONWEALTH OF VIRGINIA
GINO SQUARCIAFICO
Reg. No. 42698
06/30/2023
PROFESSIONAL ENGINEER

APPROVALS DATE

QUALITY CONTROL ENGINEER

CONSTRUCTION MANAGEMENT SUPERVISOR

WATER, SEWER, STREETS BUREAU CHIEF

ENGINEERING BUREAU CHIEF

PROJECT MANAGER

REVISIONS DATE

15TH STREET N
Z313
N INGLEWOOD ST TO N KENILWORTH ST

MAINTENANCE OF TRAFFIC NOTES

DESIGNED: V. ROLLAMAS
DRAWN: V. ROLLAMAS
CHECKED: G. SQUARCIAFICO

PLOTTED: AUGUST 31 2023

SCALE:

C122.2

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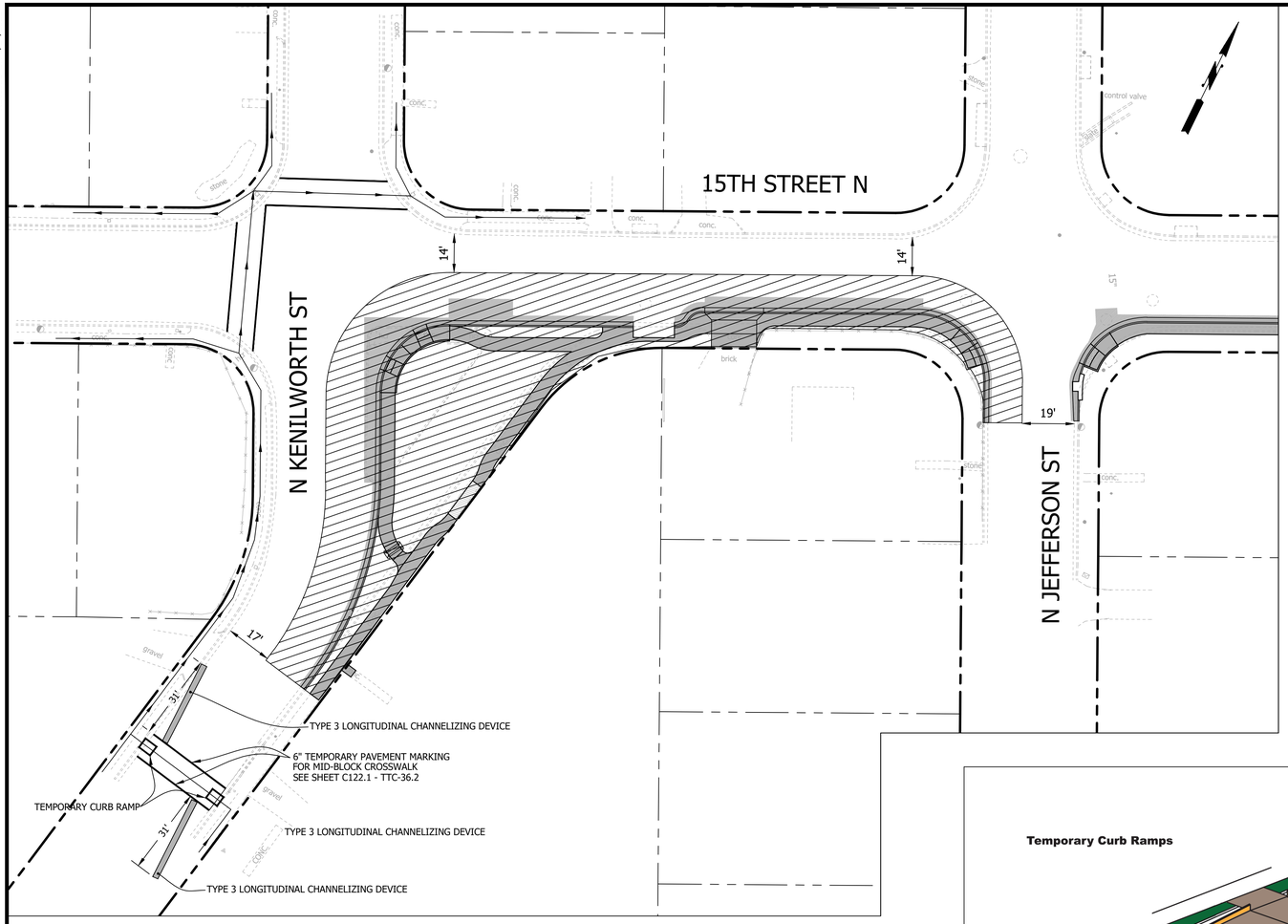
REVISED ON 1/24/2022



LEGEND:

- AREA UNDER CONSTRUCTION
- TRAFFIC FLOW

DETOUR PLAN A, B & C

Typical Traffic Control

Sidewalk Closure and Bypass Sidewalk Operation

(Figure TTC-35.1)

NOTES

Standard:

1. **When crosswalks or other pedestrian facilities are closed or relocated, temporary facilities shall be detectable and shall include accessibility features consistent with the features present in the existing pedestrian facility.**

Guidance:

2. *Where high speeds are anticipated, a temporary traffic barrier and, if necessary, a crash cushion should be used to separate the temporary sidewalks from vehicular traffic.*
3. *Audible information devices should be considered where midblock closings and changed crosswalk areas cause inadequate communication to be provided to pedestrians who have visual disabilities.*
4. *Temporary markings should be considered for operations exceeding three days in duration.*

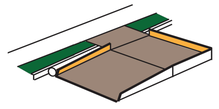
Option:

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

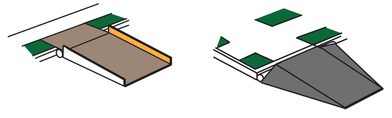
Standard:

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

Temporary Curb Ramps



Parallel to Curb

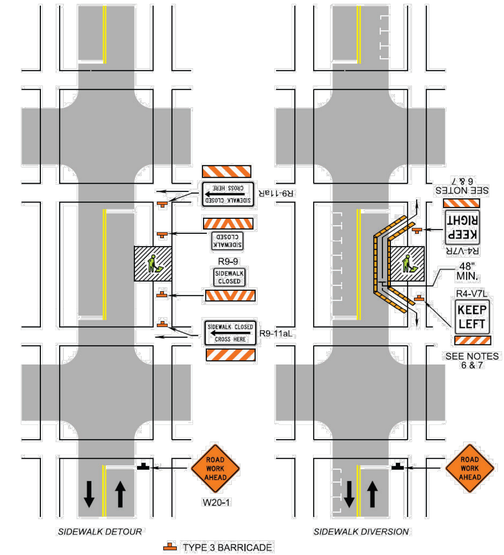


Perpendicular to Curb

1. Curb ramps should be a minimum of 48 inches in width for perpendicular ramps and 60 inches in width for parallel ramps, with a firm, stable non-slip surface.
2. Detectable edges for long canes shall be continuous and a minimum of 6 inches above the walkway surface and be a contrasting color with the ramp and landing surface. For perpendicular ramps, the 6 inch detectable edge may be replaced with a 10:1 apron/flared side and a 2 inch wide marked walkway edge line.
3. Ramps shall have a slope not to exceed a maximum of an 12% (8:1).
4. Curb ramps and turning spaces should have a maximum of 2% (48:1) cross-slope.
5. A clear space, 48 X 48 inch for perpendicular ramps and 60 X 60 inch for parallel ramps, should be provided above and below the ramp.
6. Curb ramps should be placed to have minimal restriction to water flow in the curb/gutter drainage system.
7. All joints and gaps between surfaces should be less than 0.5 inches.
8. Vertical changes between surface heights should not exceed 0.5 inches. Vertical edges can be vertical up to 0.25 inches. Vertical edges between 0.25 and 0.5 inches shall be beveled at 2:1.

Sidewalk Closure and Bypass Sidewalk Operation

(Figure TTC-35.1)



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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
GIDO SQUARCIAFICO
No. 19398
06/30/2023
PROFESSIONAL ENGINEER

APPROVALS DATE

QUALITY CONTROL ENGINEER

CONSTRUCTION MANAGEMENT SUPERVISOR

WATER, SEWER, STREETS BUREAU CHIEF

ENGINEERING BUREAU CHIEF

PROJECT MANAGER

REVISIONS DATE

MAINTENANCE OF TRAFFIC DETOUR PLAN

15TH STREET N
Z313
N INGLEWOOD ST TO N KENILWORTH ST

DESIGNED: V. ROLLAMAS
DRAWN: V. ROLLAMAS
CHECKED: G. SQUARCIAFICO

PLOTTED: AUGUST 31 2023

SCALE: 1"=25'

0 25 50
GRAPHIC SCALE

C123.1

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