REVISED ON 03/29/2021

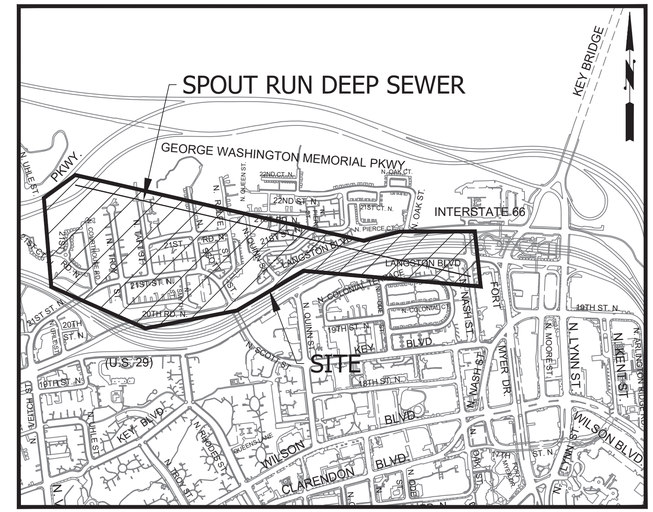
ARLINGTON VIRGINIA

OWNER
DEPARTMENT OF
ENVIRONMENTAL SERVICES
WATER, SEWER, STREETS BUREAU
4200 28TH STREET SOUTH
ARLINGTON, VA 22206
PHONE: 703.228.6555 FAX: 703.228.7865
WWW.ARLINGTONVA.US

ENGINEER
CDM SMITH INC.
10560 ARROWHEAD DRIVE, SUITE 500
FAIRFAX, VA 22030
PHONE: 703.691.6500

CONTRACTOR
TO BE DETERMINED

LOCATION MAP


SPOUT RUN DEEP SEWER
KEY BRIDGE
GEORGE WASHINGTON MEMORIAL PKWY
INTERSTATE 66
LANGSTON BLVD
SITE
KEY BLVD
WILSON BLVD
CLARENDON BLVD
(U.S. 29)
N. NASH ST
N. QUINN ST
N. GLEBE RD
N. FAIRFAX DR
N. LYNN ST
N. UHLE ST
N. OAK ST
N. MOORE ST
N. CULPEPER ST
N. GEORGE MASON DR
N. SCOTT ST
N. TAFT ST
N. PIERCE ST
N. ROOSEVELT BLVD
N. ROOSEVELT ST
N. GARFIELD ST
N. HARRISON ST
N. WALTER REED DR
N. VAN BUREN ST
N. JACKSON ST
N. JEFFERSON ST
N. ADAMS ST
N. MADISON ST
N. MONROE ST
N. JEFFERSON ST
N. ADAMS ST
N. MADISON ST
N. MONROE ST
N. GEORGE MASON DR
N. FAIRFAX DR
N. LYNN ST
N. GLEBE RD

REVISED ON 03/29/2021

LINETYPE LEGEND

FEATURE	EXISTING	PROPOSED
BUILDING		
CENTERLINE / BASELINE		
COMMUNICATIONS CABLE	COM COM	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	FO FO	FO FO
GAS LINE	GAS GAS	GAS GAS
X" GAS LINE (SIZE INCLUDED IF AVAILABLE)	#" g #" g #" g	#" G #" G
GUARDRAIL		
HARDSCAPE FEATURE (MATERIAL NOTED)		
LIMITS OF DISTURBANCE	LOD LOD	LOD LOD
LIMITS OF WORK	LOW LOW	LOW LOW
OVERHEAD WIRES		
PAVEMENT MINI SKIP LINE		
PAVEMENT SKIP LINE		
PROPERTY LINE		
RIGHT-OF-WAY LINE		
ROOT PRUNING	RP RP	RP RP
SANITARY SEWER	SAN	SAN
SANITARY SEWER UNDER 20" (SIZE INCLUDED IF AVAILABLE)	#" s #" s	
SANITARY SEWER OVER 20"		
SILT FENCE	X X X X X	X X X X X
STORM (SIZE NOTED)	STM STM	
STREAM		
STREET LIGHT CONDUIT	SL SL	SL SL
TELEPHONE (UNDERGROUND)	UGT UGT	UGT UGT
TREE LINE		
TREE PROTECTION FENCE	TP TP	TP TP
WALL		
WATERLINE UNDER 20" (SIZE INCLUDED IF AVAILABLE)	#" w #" w	
WATERLINE OVER 20"		

SYMBOL LEGEND

EXISTING FEATURE	PROPOSED FEATURE
EX CABLE PEDESTAL	
EX ELECTRIC BOX	
EX FIRE HYDRANT	PROP FIRE HYDRANT
EX GAS VALVE	PROP GAS VALVE
EX GROUND LIGHT	
EX GUY WIRES	
EX IRON PIPE OR PIN	
EX LIGHT POLE	PROP LIGHT POLE
EX MAILBOX	
EX MONUMENT	
EX PARKING METER	
EX PAY STATION	PROP PAY STATION
EX SANITARY MANHOLE	PROP SANITARY MANHOLE
EX STORM BASIN	PROP STORM CATCH BASIN (TO SCALE)
EX STORM MANHOLE	PROP STORM MANHOLE
EX TELEPHONE PEDESTAL	
EX TRAFFIC CONTROL BOX	
EX TRAFFIC SIGN	PROP TRAFFIC SIGN
EX TRASH CAN	PROP TRASH CAN
EX TRAVERSE	
EX TREES, WOODED AREA	PROPOSED TREE
	PROPOSED TREE REMOVAL
EX UTILITY MANHOLE TYPE INDICATED ELEC, 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)
	DETAIL NUMBER (SEE NOTE)
NORTH ARROW	CURVE NUMBER (SEE CURVE TABLE)
	LINE NUMBER (SEE LINE TABLE)
	TEST HOLE
	PHOTO (NTS) — 6 Photo number, #5 Sheet where photo is taken

SYMBOL LEGEND

EXISTING FEATURE	PROPOSED FEATURE
EX STRIPING	PROP STRIPING
EX BUS STOP	PROP BUS STOP

LABEL LEGEND

EXISTING	PROPOSED
EXISTING SANITARY STRUCTURE NUMBER	PROPOSED SANITARY SEWER STRUCTURE NUMBER
EXISTING STORM SEWER STRUCTURE NUMBER	PROPOSED STORM SEWER STRUCTURE NUMBER

HATCH LEGEND

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

ABBREVIATIONS

AF	ARLINGTON FIBER
APPROX.	APPROXIMATE
DIP	DUCTILE IRON PIPE
EB	EAST BOUND
EX.	EXISTING
FH	FIRE HYDRANT
INV	INVERT
LOD	LIMIT OF DISTURBANCE
MH	MANHOLE
MOT	MAINTENANCE TRAFFIC
SAN	SANITARY
SB	SOUTH BOUND
SEW	SEWER
T	TELEPHONE
UGE	UNDERGROUND ELECTRIC
UGT	UNDERGROUND TELEPHONE
UNK	UNKNOWN
WM	WATER MAIN
X-ING	CROSSING
CIPP	CURED IN PLACE PIPE
RCP	REINFORCED CONCRETE PIPE

ARLINGTON VIRGINIA

DEPARTMENT OF ENVIRONMENTAL SERVICES
Water Sewer Streets Bureau
4200 28th St S, TWA 1st Fl
Arlington, VA 22202
Phone: 703.228.7865
Fax: 703.228.6585

COPYRIGHT © 2022 ARLINGTON COUNTY VIRGINIA - ALL RIGHTS RESERVED

SEAL

COMMONWEALTH OF VIRGINIA
DANIEL G. GILROY
Lic. No. 0402022914
12/7/2022
PROFESSIONAL ENGINEER

APPROVALS	DATE
DESIGN ENGINEER TEAM SUPERVISOR	12/13/2022
CONSTRUCTION MANAGEMENT SUPERVISOR	12/15/2022
WATER, SEWER, STREETS BUREAU CHIEF	12/14/22
TRANSPORTATION DIRECTOR (Dennis M. Leach)	12/14/22
PROJECT MANAGER (Nicole Dean)	12/15/2022

REVISIONS	DATE

SPOUT RUN DEEP SEWER REHABILITATION

LEGEND AND ABBREVIATIONS

DESIGNED: R. PANNEERSELVAM
DRAWN: J. SOSA
CHECKED: D. GILROY

PLOTTED: DECEMBER 7 2022

CDM Smith
10560 Arrowhead Drive, Suite 500
Fairfax, VA 22030
Tel: (703) 691-6500

FILENAME: LEGEND AND ABBREVIATIONS.DWG PATH: C:\PW_PL1\SOSAJJ\D2544224 PLOTTED BY: SOSAJJ

REVISED ON 03/29/2021

0 150 300
GRAPHIC SCALE

ARLINGTON
VIRGINIA

DEPARTMENT OF
ENVIRONMENTAL SERVICES

Water Sewer Streets Bureau
4200 28th St S, TWA 1st Fl
Arlington, VA 22202
Phone: 703.228.7865
Fax: 703.228.6585

COPYRIGHT © 2022 ARLINGTON COUNTY
VIRGINIA - ALL RIGHTS RESERVED

SEAL

COMMONWEALTH OF VIRGINIA
DANIEL G. GILROY
Lic. No. 0402022914
12/7/2022
PROFESSIONAL ENGINEER

APPROVALS	DATE
DESIGN ENGINEER TEAM SUPERVISOR	12/13/2022
CONSTRUCTION MANAGEMENT SUPERVISOR	12/15/2022
WATER, SEWER, STREETS BUREAU CHIEF	12/14/22
TRANSPORTATION DIRECTOR	12/14/22
PROJECT MANAGER	12/15/2022

REVISIONS	DATE

SPOUT RUN DEEP SEWER REHABILITATION

OVERALL SITE PLAN

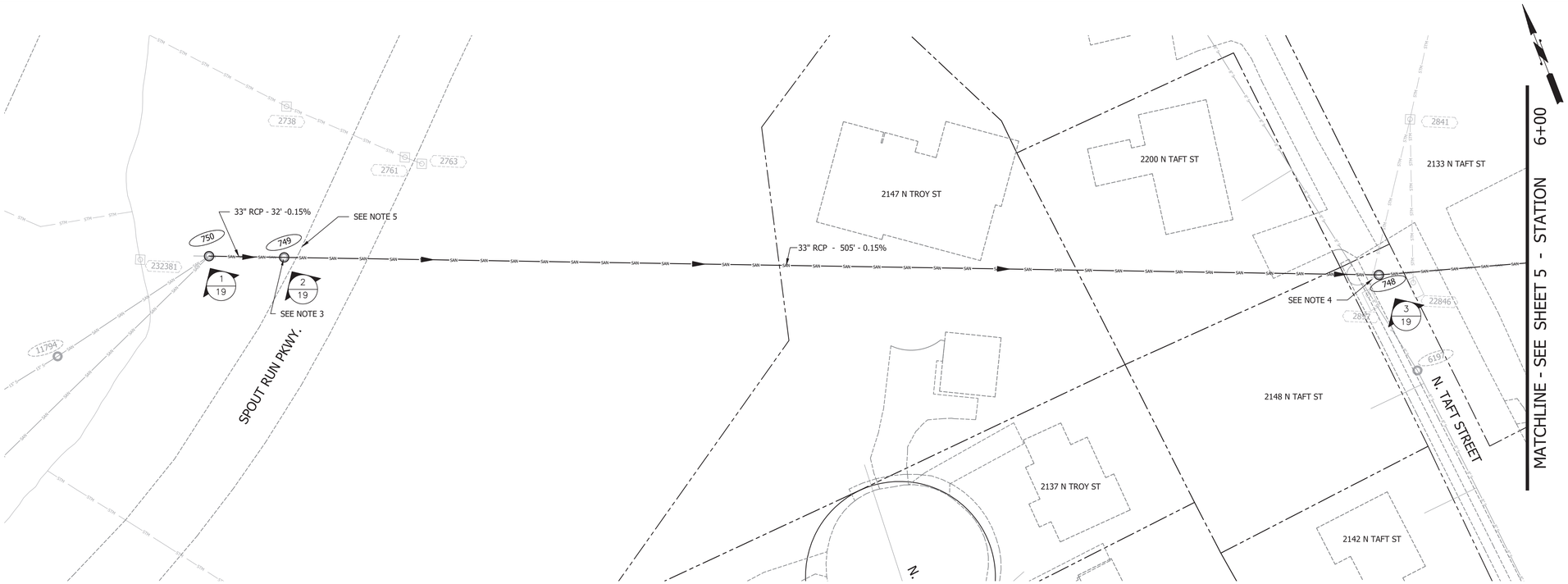
DESIGNED: R. PANNEERSELVAM
DRAWN: J. SOSA
CHECKED: D. GILROY

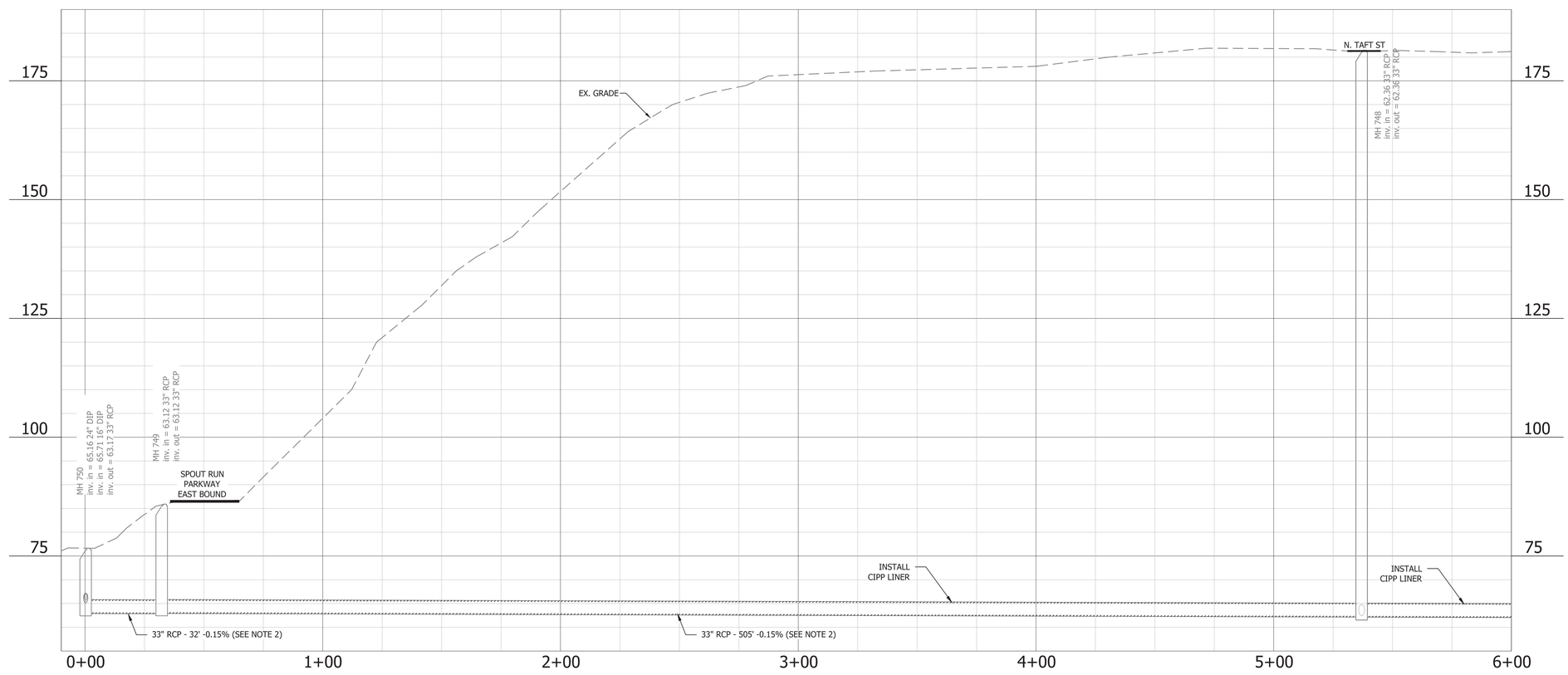
PLOTTED: DECEMBER 7 2022

CDM Smith
10560 Arrowhead Drive, Suite 500
Fairfax, VA 22030
Tel: (703) 691-6500

FILENAME: 000-PLPR0.DWG PATH: C:\PW_PL11\SOSAJ1\D2544232 PLOTTED BY: SOSAJJ

REVISED ON 03/29/2021





NOTES:

1. ALL GROUND ELEVATIONS, MANHOLE FRAME/COVER ELEVATIONS, INVERT ELEVATIONS AND PIPE SLOPES HAVE BEEN OBTAINED FROM COUNTY RECORDS. CONTRACTOR TO FIELD VERIFY ALL ELEVATIONS PRIOR TO CONSTRUCTION.
2. SEWER PIPE LENGTHS SHOWN FOR CIPP LINING ARE FROM COUNTY AS-BUILTS (CENTER OF MH TO CENTER OF MH). CONTRACTOR TO VERIFY REQUIRED CIPP PIPE LENGTHS.
3. CONTRACTOR TO CLEAR BRUSH AS NECESSARY TO FIELD LOCATE MH 749.
4. CONTRACTOR HAS PERMISSION TO REMOVE CONE SECTION OF MH 748 TO FACILITATE CIPP INSERTION. EXTENT OF EXCAVATION SHALL BE 10' X 10'. CONTRACTOR SHALL RESTORE SURFACE TO EXISTING CONDITIONS AT THE COMPLETION OF WORK.
5. CONTRACTOR MAY REMOVE AND REPLACE NPS OWNED GUARD RAIL AS NECESSARY TO GAIN ACCESS TO SPOUT RUN WORK AREA, PER DETAILS SHEET 26 AND 27.

0 12.5 25
VERT. SCALE
0 25 50
HORIZ. SCALE

ARLINGTON
VIRGINIA

DEPARTMENT OF
ENVIRONMENTAL SERVICES

Water Sewer Streets Bureau
4200 28th St S, TWA 1st Fl
Arlington, VA 22202
Phone: 703.228.7865
Fax: 703.228.6585

COPYRIGHT © 2022 ARLINGTON COUNTY
VIRGINIA - ALL RIGHTS RESERVED

SEAL

COMMONWEALTH OF VIRGINIA
DANIEL G. GILROY
Lic. No. 0402022914
12/7/2022
PROFESSIONAL ENGINEER

APPROVALS	DATE
DESIGN ENGINEER TEAM SUPERVISOR	12/13/2022
CONSTRUCTION MANAGEMENT SUPERVISOR	12/15/2022
WATER, SEWER, STREETS BUREAU CHIEF	12/14/22
Dennis M. Leach TRANSPORTATION DIRECTOR	12/14/22
Nicole Dean PROJECT MANAGER	12/15/2022

REVISIONS	DATE

SPOUT RUN DEEP SEWER REHABILITATION

PLAN AND PROFILE I

DESIGNED: R. PANNEERSELVAM
DRAWN: J. SOSA
CHECKED: D. GILROY

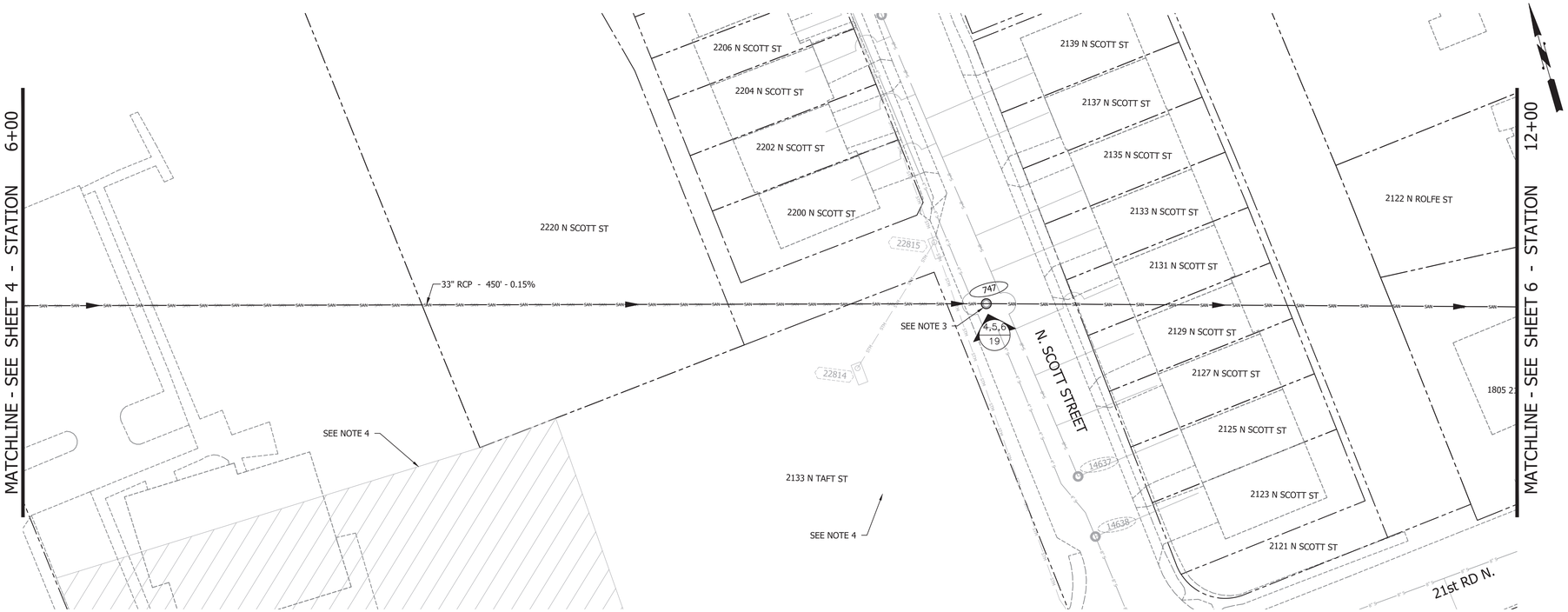
PLOTTED: DECEMBER 7 2022

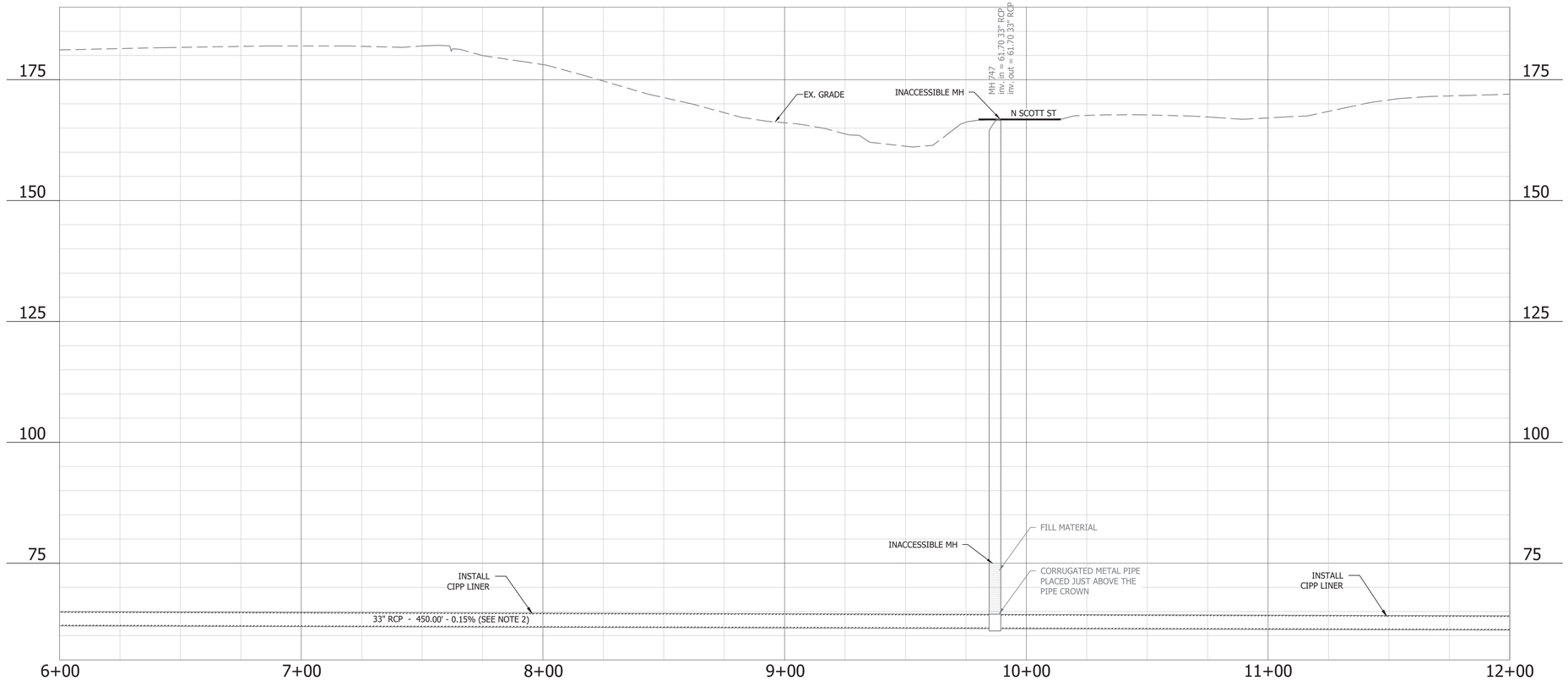
CDM Smith
10560 Arrowhead Drive, Suite 500
Fairfax, VA 22030
Tel: (703) 691-6500

SHEET 4 OF 46

FILENAME: 000-PLPR1.DWG PATH: C:\PW_PL11\SOSAJ1\D2544232 PLOTTED BY: SOSAJJ

REVISED ON 03/29/2021





NOTES:

1. ALL GROUND ELEVATIONS, MANHOLE FRAME/COVER ELEVATIONS, INVERT ELEVATIONS AND PIPE SLOPES HAVE BEEN OBTAINED FROM COUNTY RECORDS. CONTRACTOR TO FIELD VERIFY ALL ELEVATIONS PRIOR TO CONSTRUCTION.
2. SEWER PIPE LENGTHS SHOWN FOR CIPP LINING ARE FROM COUNTY AS-BUILTS (CENTER OF MH TO CENTER OF MH). CONTRACTOR TO VERIFY REQUIRED CIPP PIPE LENGTHS.
3. MH 747 HAS BEEN ABANDONED AND IS NOT AVAILABLE FOR LINER INSTALLATION. CONTRACTOR SHALL INSTALL LINER FROM UPSTREAM OR DOWNSTREAM MANHOLE.
4. THE DAWSON-BAILEY HOUSE IS A HISTORIC LANDMARK. ALL WORK SHALL BE LIMITED TO THE AVAILABLE EASEMENTS AND SHALL NOT EXTEND OR ENCROACH ON DAWSON-BAILEY PROPERTY.

VERT. SCALE 0 12.5 25

HORIZ. SCALE 0 25 50

ARLINGTON VIRGINIA

DEPARTMENT OF ENVIRONMENTAL SERVICES
Water Sewer Streets Bureau
4200 28th St S, TWA 1st Fl
Arlington, VA 22202
Phone: 703.228.7865
Fax: 703.228.6585

COPYRIGHT © 2022 ARLINGTON COUNTY VIRGINIA - ALL RIGHTS RESERVED

SEAL

COMMONWEALTH OF VIRGINIA
DANIEL G. GILROY
Lic. No. 0402022914
12/7/2022
PROFESSIONAL ENGINEER

APPROVALS	DATE
DESIGN ENGINEER TEAM SUPERVISOR	12/13/2022
CONSTRUCTION MANAGEMENT SUPERVISOR	12/15/2022
WATER, SEWER, STREETS BUREAU CHIEF	12/14/22
Dennis M. Leach TRANSPORTATION DIRECTOR	12/14/22
Nicole Dean PROJECT MANAGER	12/15/2022

REVISIONS	DATE

SPOUT RUN DEEP SEWER REHABILITATION

PLAN AND PROFILE II

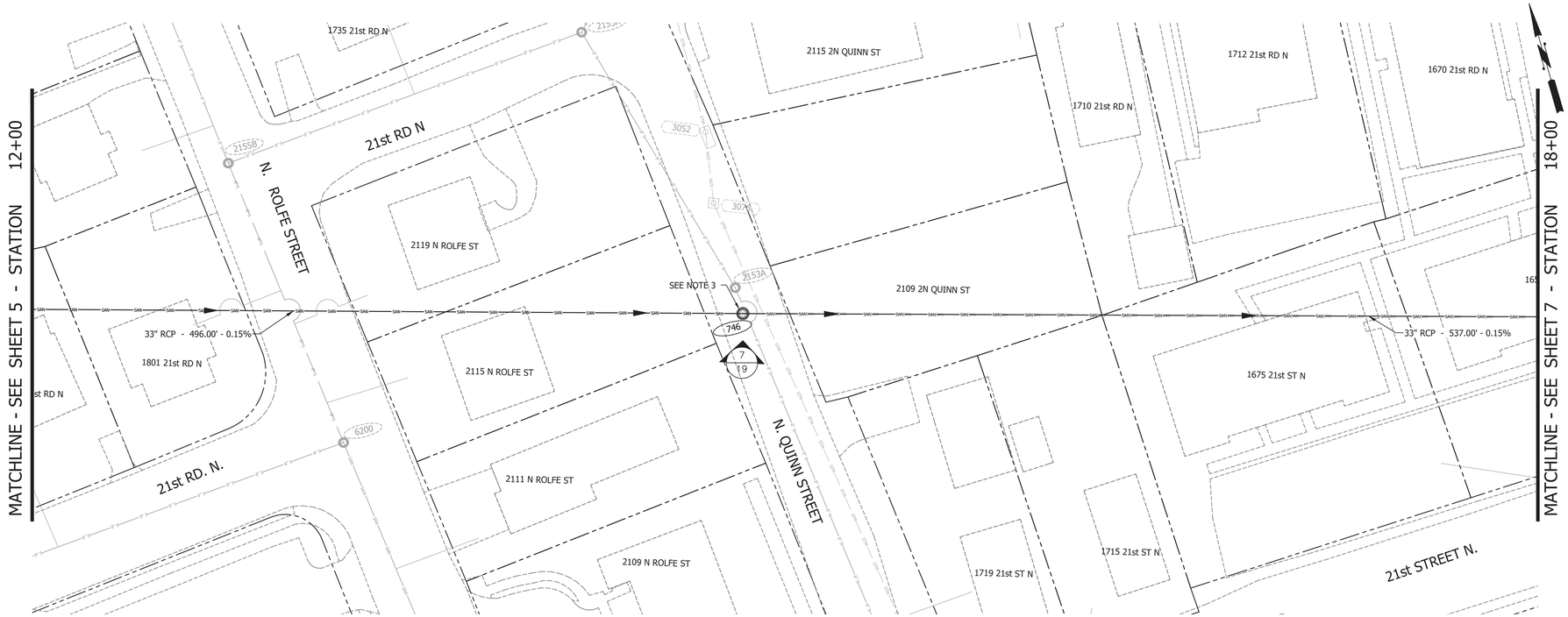
DESIGNED: R. PANNEERSELVAM
DRAWN: J. SOSA
CHECKED: D. GILROY

PLOTTED: DECEMBER 7 2022

CDM Smith
10560 Arrowhead Drive, Suite 500
Fairfax, VA 22030
Tel: (703) 691-6500

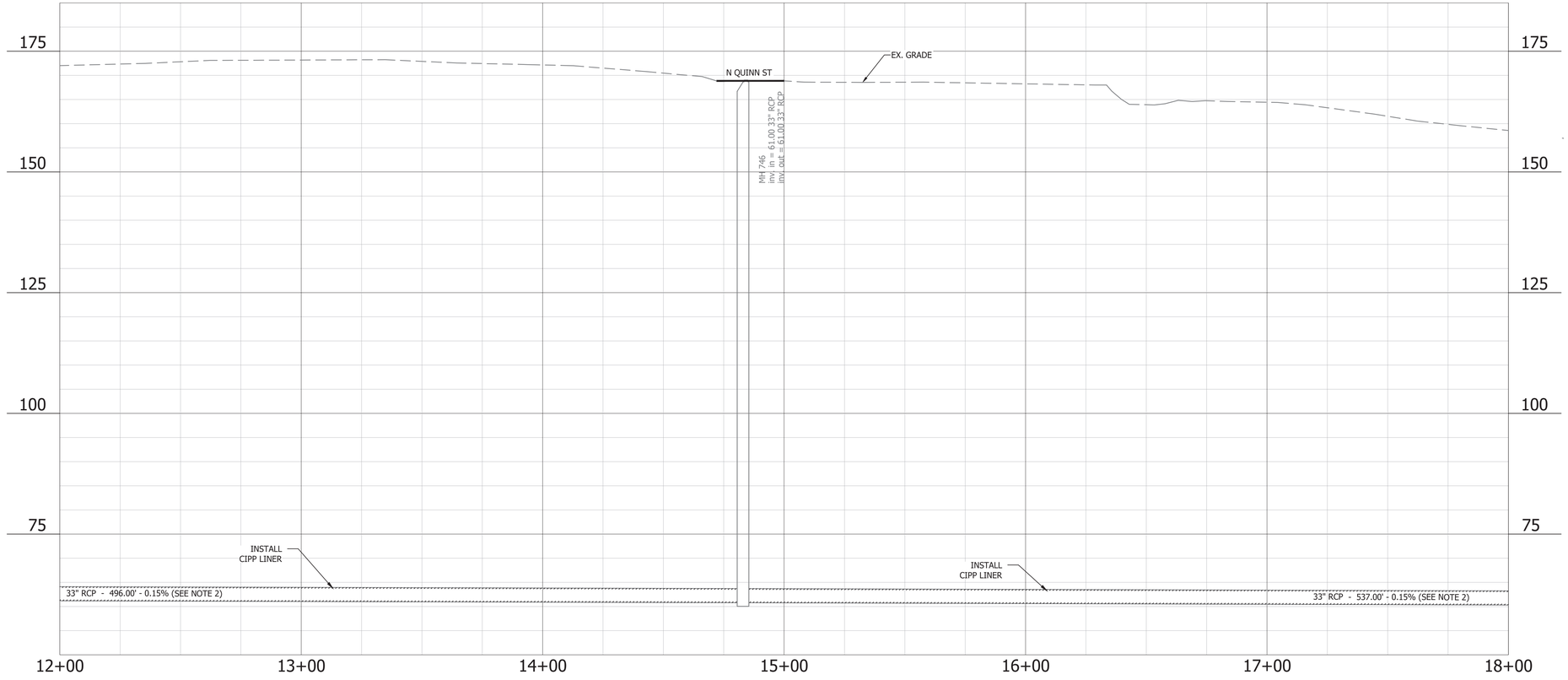
FILENAME: 000-PLPR2.DWG PATH: C:\PW_PL11\SOSAJ\D2544232 PLOTTED BY: SOSAJ

REVISED ON 03/29/2021



NOTES:

1. ALL GROUND ELEVATIONS, MANHOLE FRAME/COVER ELEVATIONS, INVERT ELEVATIONS AND PIPE SLOPES HAVE BEEN OBTAINED FROM COUNTY RECORDS. CONTRACTOR TO FIELD VERIFY ALL ELEVATIONS PRIOR TO CONSTRUCTION.
2. SEWER PIPE LENGTHS SHOWN FOR CIPP LINING ARE FROM COUNTY AS-BUILTS (CENTER OF MH TO CENTER OF MH). CONTRACTOR TO VERIFY REQUIRED CIPP PIPE LENGTHS.
3. CONTRACTOR HAS PERMISSION TO REMOVE THE CONE SECTION OF MANHOLE 746 TO FACILITATE CIPP INSERTION. EXTENT OF EXCAVATION SHALL BE 10' X 10'. CONTRACTOR SHALL RESTORE SURFACE TO EXISTING CONDITIONS AT THE COMPLETION OF WORK.



0 12.5 25
VERT. SCALE
0 25 50
HORIZ. SCALE

ARLINGTON VIRGINIA

DEPARTMENT OF ENVIRONMENTAL SERVICES
Water Sewer Streets Bureau
4200 28th St S, TWA 1st Fl
Arlington, VA 22202
Phone: 703.228.7865
Fax: 703.228.6585

COPYRIGHT © 2022 ARLINGTON COUNTY VIRGINIA - ALL RIGHTS RESERVED

SEAL

COMMONWEALTH OF VIRGINIA
DANIEL G. GILROY
Lic. No. 0402022914
12/7/2022
PROFESSIONAL ENGINEER

APPROVALS	DATE
DESIGN ENGINEER TEAM SUPERVISOR	12/13/2022
CONSTRUCTION MANAGEMENT SUPERVISOR	12/15/2022
WATER, SEWER, STREETS BUREAU CHIEF	12/14/22
Dennis M. Leach TRANSPORTATION DIRECTOR	12/14/22
Nicole Dean PROJECT MANAGER	12/15/2022

REVISIONS	DATE

SPOUT RUN DEEP SEWER REHABILITATION

PLAN AND PROFILE III

DESIGNED: R. PANNEERSELVAM
DRAWN: J. SOSA
CHECKED: D. GILROY

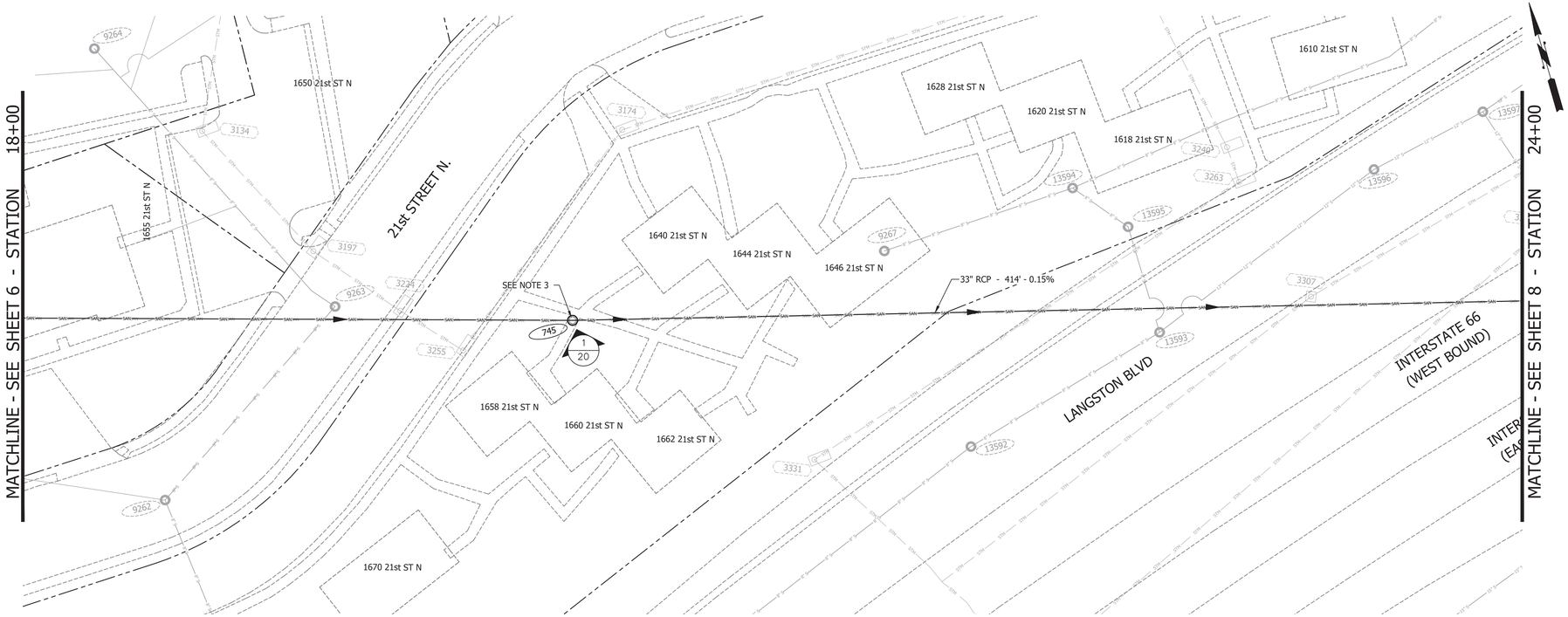
PLOTTED: DECEMBER 7 2022

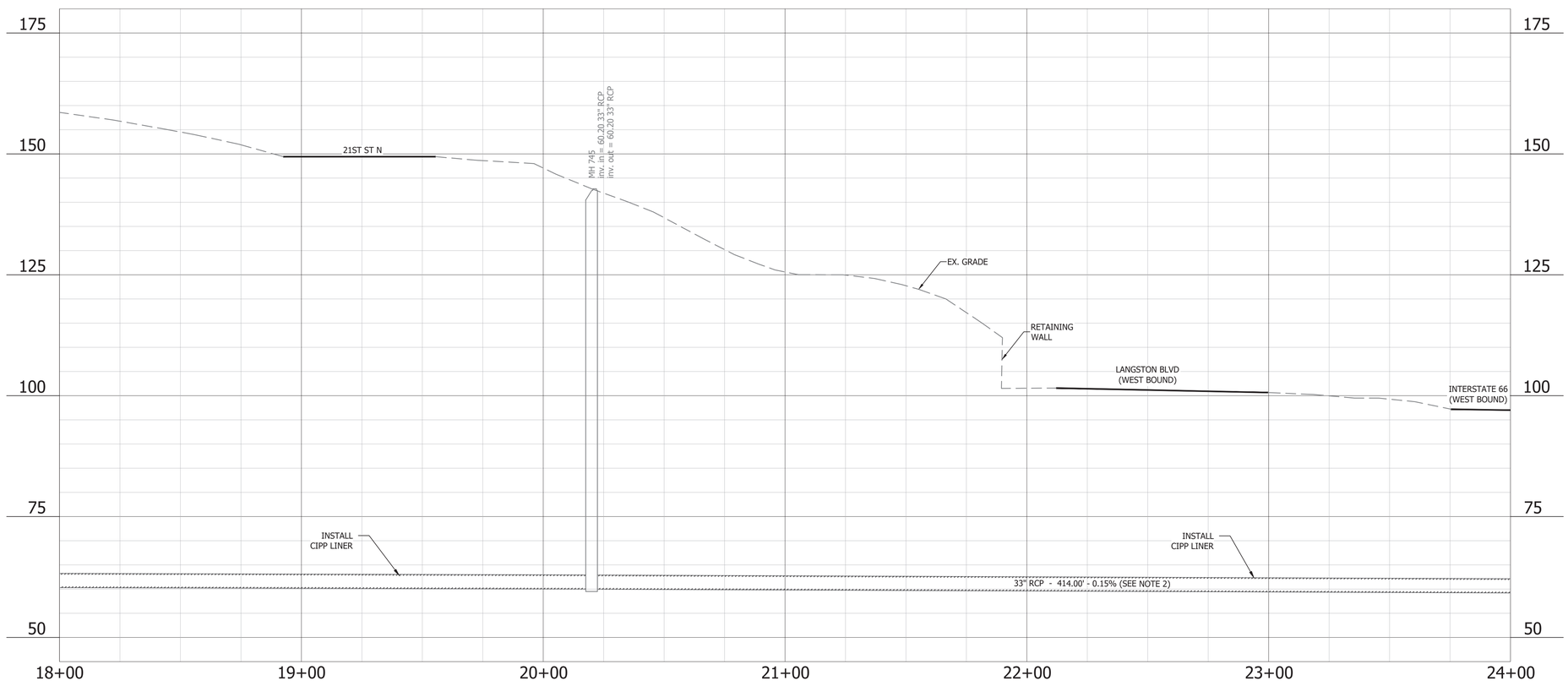
CDM Smith
10560 Arrowhead Drive, Suite 500
Fairfax, VA 22030
Tel: (703) 691-6500

SHEET 6 OF 46

FILENAME: 000-PLPR3.DWG PATH: C:\PW_PL11\SOSAJ1\D2544232 PLOTTED BY: SOSAJJ

REVISED ON 03/29/2021





NOTES:

1. ALL GROUND ELEVATIONS, MANHOLE FRAME/COVER ELEVATIONS, INVERT ELEVATIONS AND PIPE SLOPES HAVE BEEN OBTAINED FROM COUNTY RECORDS. CONTRACTOR TO FIELD VERIFY ALL ELEVATIONS PRIOR TO CONSTRUCTION.
2. SEWER PIPE LENGTHS SHOWN FOR CIPP LINING ARE FROM COUNTY AS-BUILTS (CENTER OF MH TO CENTER OF MH). CONTRACTOR TO VERIFY REQUIRED CIPP PIPE LENGTHS.
3. MANHOLE 745 IS LOCATED ON PRIVATE PROPERTY AND HAS LIMITED ACCESS.

0 12.5 25
VERT. SCALE
0 25 50
HORIZ. SCALE

ARLINGTON
VIRGINIA

DEPARTMENT OF
ENVIRONMENTAL SERVICES
Water Sewer Streets Bureau
4200 28th St S, TWA 1st Fl
Arlington, VA 22202
Phone: 703.228.7865
Fax: 703.228.6585

COPYRIGHT © 2022 ARLINGTON COUNTY
VIRGINIA - ALL RIGHTS RESERVED

SEAL

COMMONWEALTH OF VIRGINIA
DANIEL G. GILROY
Lic. No. 0402022914
12/7/2022
PROFESSIONAL ENGINEER

APPROVALS	DATE
DESIGN ENGINEER TEAM SUPERVISOR	12/13/2022
CONSTRUCTION MANAGEMENT SUPERVISOR	12/15/2022
WATER, SEWER, STREETS BUREAU CHIEF	12/14/22
TRANSPORTATION DIRECTOR (Dennis M. Leach)	12/14/22
PROJECT MANAGER (Nicole Dean)	12/15/2022

REVISIONS	DATE

SPOUT RUN DEEP SEWER REHABILITATION

PLAN AND PROFILE IV

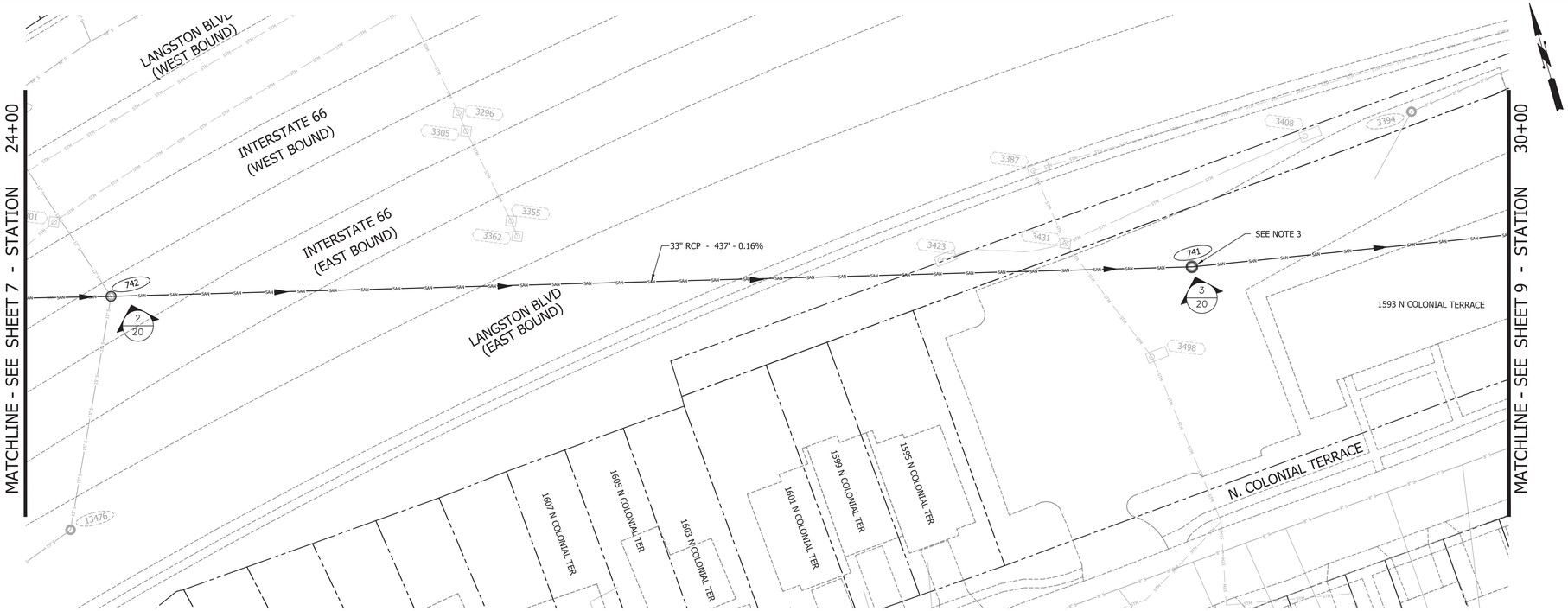
DESIGNED: R. PANNEERSELVAM
DRAWN: J. SOSA
CHECKED: D. GILROY

PLOTTED: DECEMBER 7 2022

CDM Smith
10560 Arrowhead Drive, Suite 500
Fairfax, VA 22030
Tel: (703) 691-6500

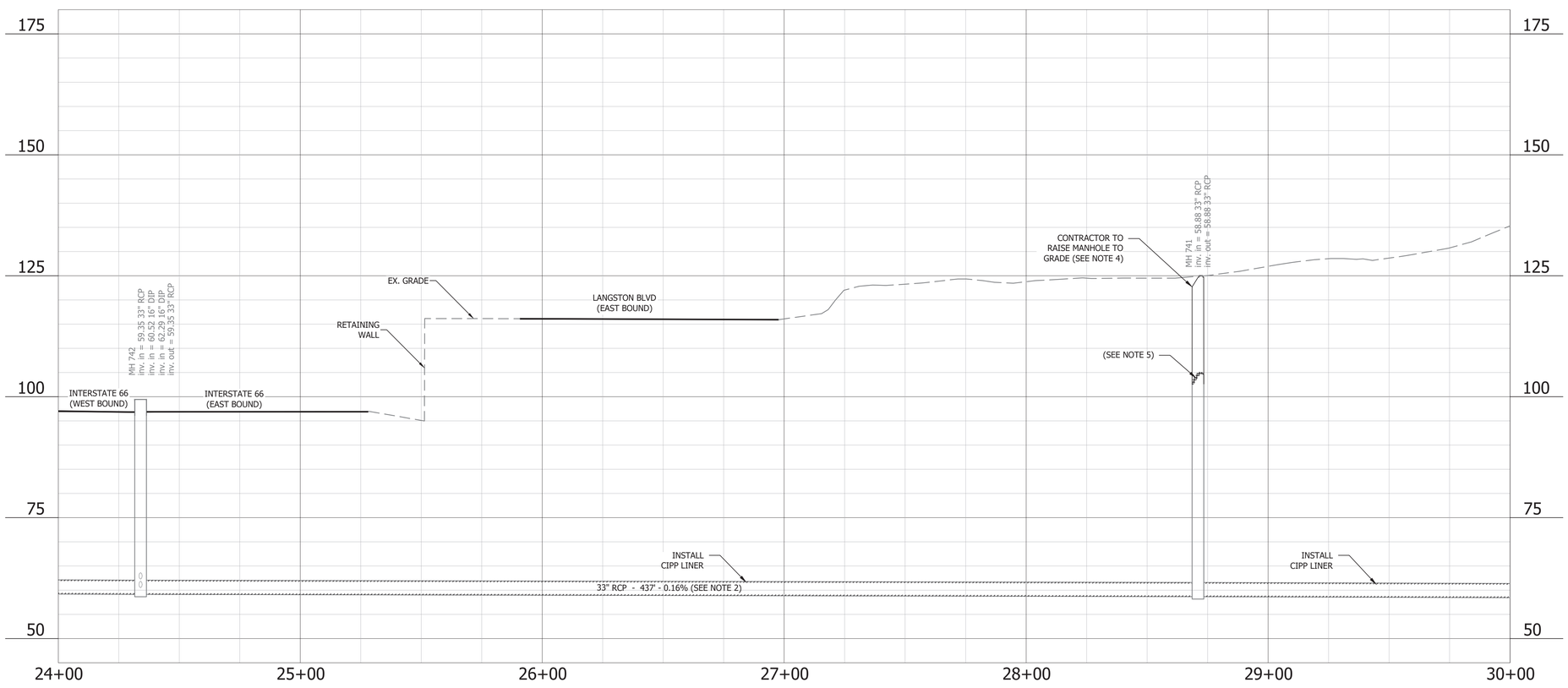
FILENAME: 000-PLPR4.DWG PATH: C:\PW_PL11\SOSA11\D2544232 PLOTTED BY: SOSAJJ

REVISED ON 03/29/2021



NOTES:

1. ALL GROUND ELEVATIONS, MANHOLE FRAME/COVER ELEVATIONS, INVERT ELEVATIONS AND PIPE SLOPES HAVE BEEN OBTAINED FROM COUNTY RECORDS. CONTRACTOR TO FIELD VERIFY ALL ELEVATIONS PRIOR TO CONSTRUCTION.
2. SEWER PIPE LENGTHS SHOWN FOR CIPP LINING ARE FROM COUNTY AS-BUILTS (CENTER OF MH TO CENTER OF MH). CONTRACTOR TO VERIFY REQUIRED CIPP PIPE LENGTHS.
3. MANHOLE 741 IS LOCATED WITHIN PRIVATE PROPERTY PARKING LOT. CONTRACTOR TO LOCATE TOP OF MANHOLE BURIED APPROXIMATELY 15 FT BELOW GRADE AND RE-ESTABLISH MANHOLE FLUSH WITH GROUND ELEVATION.
4. CONTRACTOR TO RAISE MH 741 TO GRADE, FOLLOW ARLINGTON COUNTY STANDARD DETAIL S-2.5, SHEET 21.
5. CONTRACTOR TO REMOVE EXISTING CONE FOR MANHOLE 741 TO MAKE CONNECTION TO NEW MANHOLE RISER. SEE DETAIL SHEET 21 OF 46.



VERT. SCALE 0 12.5 25

HORIZ. SCALE 0 25 50

ARLINGTON VIRGINIA

DEPARTMENT OF ENVIRONMENTAL SERVICES
Water Sewer Streets Bureau
4200 28th St S, TWA 1st Fl
Arlington, VA 22202
Phone: 703.228.7865
Fax: 703.228.6585

COPYRIGHT © 2022 ARLINGTON COUNTY VIRGINIA - ALL RIGHTS RESERVED

SEAL

COMMONWEALTH OF VIRGINIA
DANIEL G. GILROY
Lic. No. 0402022914
12/7/2022
PROFESSIONAL ENGINEER

APPROVALS	DATE
DESIGN ENGINEER TEAM SUPERVISOR	12/13/2022
CONSTRUCTION MANAGEMENT SUPERVISOR	12/15/2022
WATER, SEWER, STREETS BUREAU CHIEF	12/14/22
TRANSPORTATION DIRECTOR (Dennis M. Leach)	12/14/22
PROJECT MANAGER (Nicole Dean)	12/15/2022

REVISIONS	DATE

SPOUT RUN DEEP SEWER REHABILITATION

PLAN AND PROFILE V

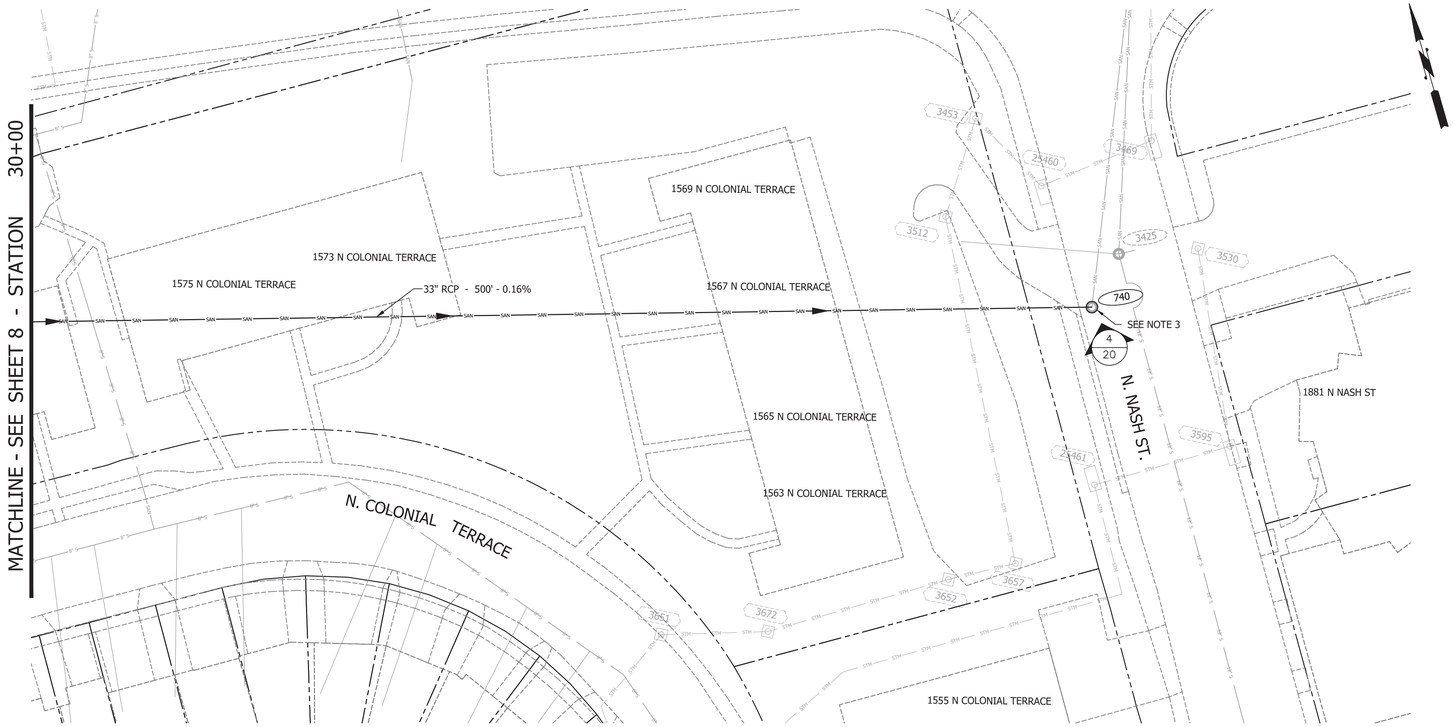
DESIGNED: R. PANNEERSELVAM
DRAWN: J. SOSA
CHECKED: D. GILROY

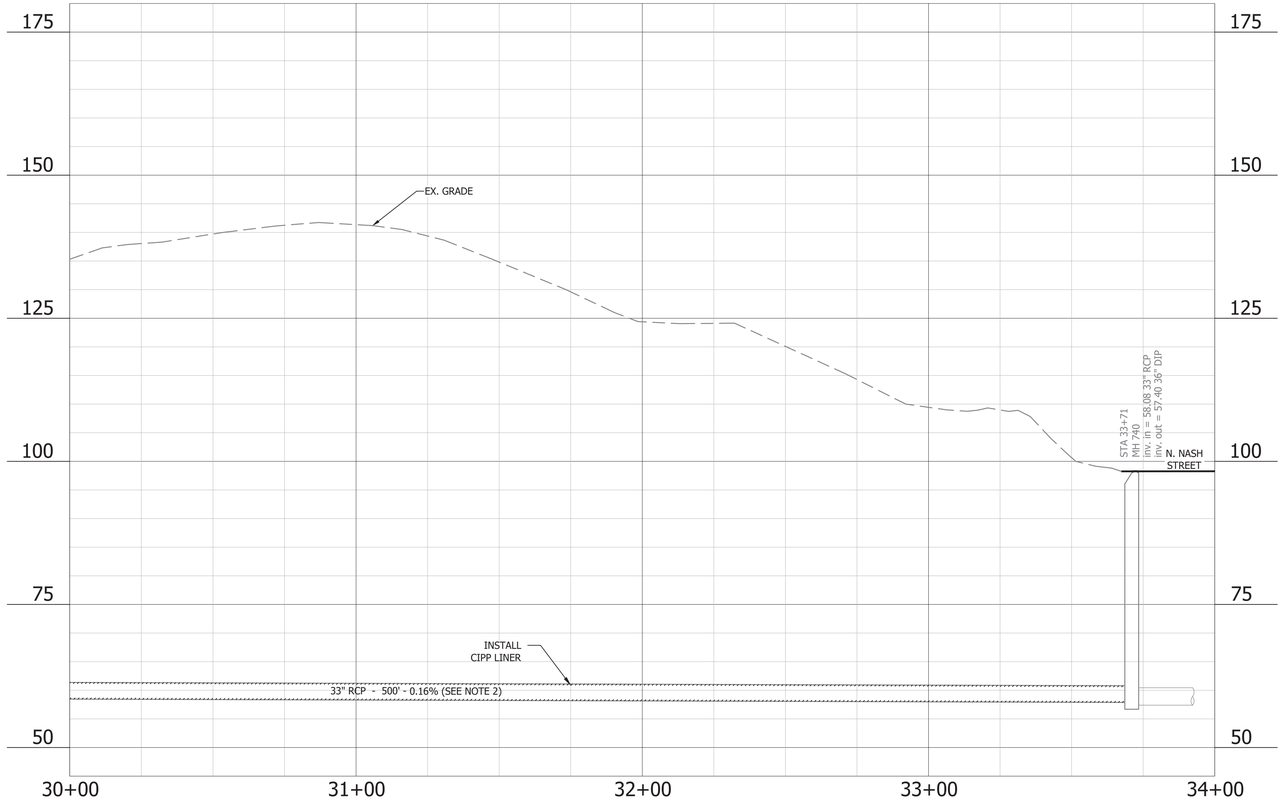
PLOTTED: DECEMBER 7 2022

CDM Smith
10560 Arrowhead Drive, Suite 500
Fairfax, VA 22030
Tel: (703) 691-6500

FILENAME: 000-PLPR5.DWG PATH: C:\PW_PL11\SOSAJ1\D2544232 PLOTTED BY: SOSAJ1

REVISED ON 03/29/2021





NOTES:

1. ALL GROUND ELEVATIONS, MANHOLE FRAME/COVER ELEVATIONS, INVERT ELEVATIONS AND PIPE SLOPES HAVE BEEN OBTAINED FROM COUNTY RECORDS. CONTRACTOR TO FIELD VERIFY ALL ELEVATIONS PRIOR TO CONSTRUCTION.
2. SEWER PIPE LENGTHS SHOWN FOR CIPP LINING ARE FROM COUNTY AS-BUILTS (CENTER OF MH TO CENTER OF MH). CONTRACTOR TO VERIFY REQUIRED CIPP PIPE LENGTHS.
3. CONTRACTOR HAS PERMISSION TO REMOVE THE CONE SECTION OF MANHOLE 740 TO FACILITATE CIPP INSERTION. EXTENT OF EXCAVATION SHALL BE 10' X 10'. CONTRACTOR SHALL RESTORE SURFACE TO EXISTING CONDITIONS AT THE COMPLETION OF WORK.

VERT. SCALE 0 12.5 25

HORIZ. SCALE 0 25 50

ARLINGTON VIRGINIA

DEPARTMENT OF ENVIRONMENTAL SERVICES
Water Sewer Streets Bureau
4200 28th St S, TWA 1st Fl
Arlington, VA 22202
Phone: 703.228.7865
Fax: 703.228.6585

COPYRIGHT © 2022 ARLINGTON COUNTY VIRGINIA - ALL RIGHTS RESERVED

SEAL

COMMONWEALTH OF VIRGINIA
DANIEL G. GILROY
Lic. No. 0402022914
12/7/2022
PROFESSIONAL ENGINEER

APPROVALS	DATE
DESIGN ENGINEER TEAM SUPERVISOR	12/13/2022
CONSTRUCTION MANAGEMENT SUPERVISOR	12/15/2022
WATER, SEWER, STREETS BUREAU CHIEF	12/14/22
TRANSPORTATION DIRECTOR (Dennis M. Leach)	12/14/22
PROJECT MANAGER (Nicole Dean)	12/15/2022

REVISIONS	DATE

SPOUT RUN DEEP SEWER REHABILITATION

PLAN AND PROFILE VI

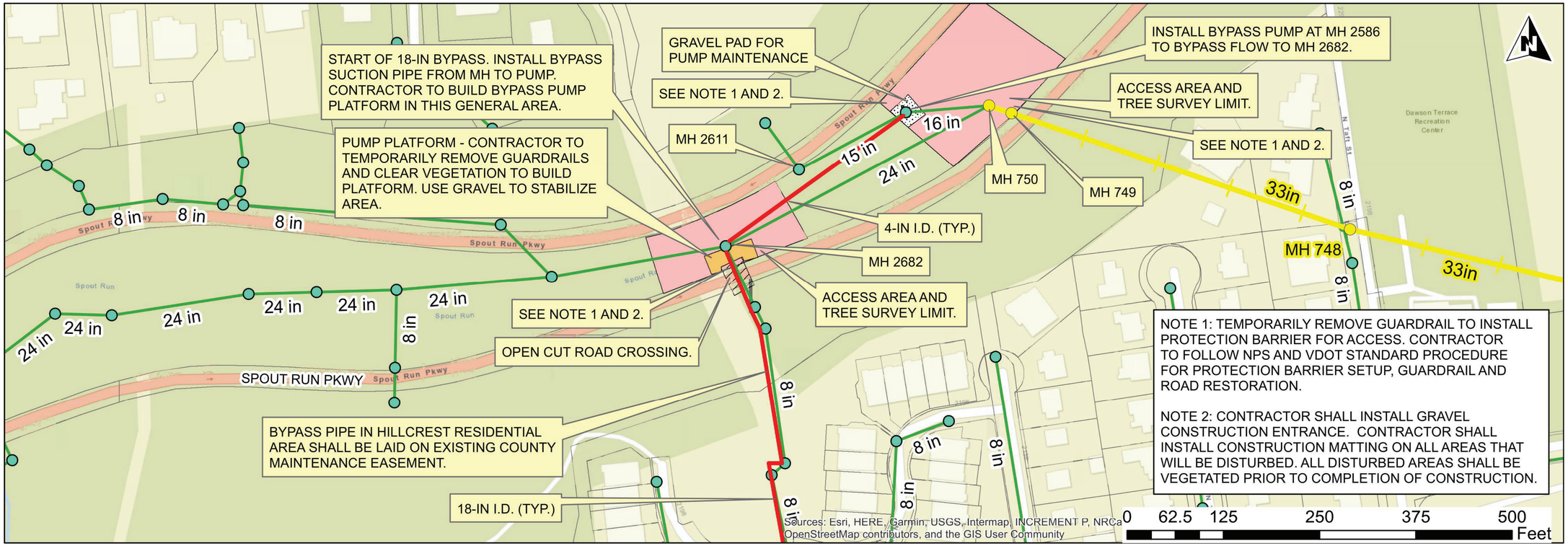
DESIGNED: R. PANNEERSELVAM
DRAWN: J. SOSA
CHECKED: D. GILROY

PLOTTED: DECEMBER 7 2022

CDM Smith
10560 Arrowhead Drive, Suite 500
Fairfax, VA 22030
Tel: (703) 691-6500

FILENAME: 000-PLPR6.DWG PATH: C:\PW_PL11\SOSA11\D2544232 PLOTTED BY: SOSAJJ

REVISED ON 03/29/2021



NOTE 1: TEMPORARILY REMOVE GUARDRAIL TO INSTALL PROTECTION BARRIER FOR ACCESS. CONTRACTOR TO FOLLOW NPS AND VDOT STANDARD PROCEDURE FOR PROTECTION BARRIER SETUP, GUARDRAIL AND ROAD RESTORATION.

NOTE 2: CONTRACTOR SHALL INSTALL GRAVEL CONSTRUCTION ENTRANCE. CONTRACTOR SHALL INSTALL CONSTRUCTION MATTING ON ALL AREAS THAT WILL BE DISTURBED. ALL DISTURBED AREAS SHALL BE VEGETATED PRIOR TO COMPLETION OF CONSTRUCTION.

Legend

- Bypass #1
- Bypass #2
- Bypass #3
- Rehab Sewer
- Existing Sewer
- Proposed New Manhole
- Manhole
- Existing Manhole
- Open Cut Road Crossing
- Rehab Access
- Pump Platform
- Gravel Pad
- Bypass Generator

GENERAL NOTES:

1. SUGGESTED TEMPORARY BYPASS APPROACH WAS DEVELOPED TO SECURE NATIONAL PARK SERVICE AND VDOT LAND USE PERMITS. CONTRACTOR MAY ELECT TO FOLLOW A DIFFERENT BYPASS PLAN, HOWEVER, WILL BE RESPONSIBLE FOR SECURING PERMITS, AND ANY RESULTING CONSTRUCTION SCHEDULE DELAYS OR COSTS.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK ASSOCIATED WITH TEMPORARY BYPASS PUMPING, INCLUDING BUT NOT LIMITED TO, PLACING AND MAINTAINING/FUELING BYPASS PUMPS, LAYING PIPES OVER LAND, AND OPEN CUT ROAD CROSSINGS AS SHOWN ON THE PLANS.
3. CONTRACTOR SHALL PROPOSE TREES FOR REMOVAL AND REPLACEMENT NECESSARY FOR IMPLEMENTING TEMPORARY BYPASS OPERATIONS WITHIN SPOUT RUN. CONTRACTOR SHALL COORDINATE WITH NPS AND SECURE NPS APPROVAL FOR ANY PROPOSED TREE REMOVAL AND REPLACEMENT WORK. TREE DELINEATION PLANS ARE SHOWN ON SHEETS 43 TO 46.
4. CONTRACTOR TO STABILIZE AND ANCHOR THE BYPASS PIPES TO PREVENT PIPES FROM MOVING DURING OPERATION.
5. CONTRACTOR SHALL TEMPORARILY EXTEND TOP OF MH 2682 ABOVE SPOUT RUN PARKWAY HIGH WATER LEVEL OR IMPLEMENT OTHER MEANS TO PREVENT STORMWATER FROM ENTERING SANITARY SEWER SYSTEM.
6. OPEN CUT ROAD CROSSING RESTORATION SHALL FOLLOW NPS DETAIL ON SHEET 23 TO 25.

ARLINGTON VIRGINIA
DEPARTMENT OF ENVIRONMENTAL SERVICES
Water Sewer Streets Bureau
4200 28th St S, TWA 1st Fl
Arlington, VA 22202
Phone: 703.228.7865
Fax: 703.228.6585

COPYRIGHT © 2022 ARLINGTON COUNTY VIRGINIA - ALL RIGHTS RESERVED

SEAL

COMMONWEALTH OF VIRGINIA
DANIEL G. GILROY
Lic. No. 0402022914
12/7/2022
PROFESSIONAL ENGINEER

APPROVALS	DATE
DESIGN ENGINEER TEAM SUPERVISOR	12/13/2022
CONSTRUCTION MANAGEMENT SUPERVISOR	12/15/2022
WATER, SEWER, STREETS BUREAU CHIEF	12/14/22
Dennis M. Leach TRANSPORTATION DIRECTOR	12/14/22
Nicole Dean PROJECT MANAGER	12/15/2022

REVISIONS	DATE

SPOUT RUN DEEP SEWER REHABILITATION

SUGGESTED TEMPORARY BYPASS APPROACH I

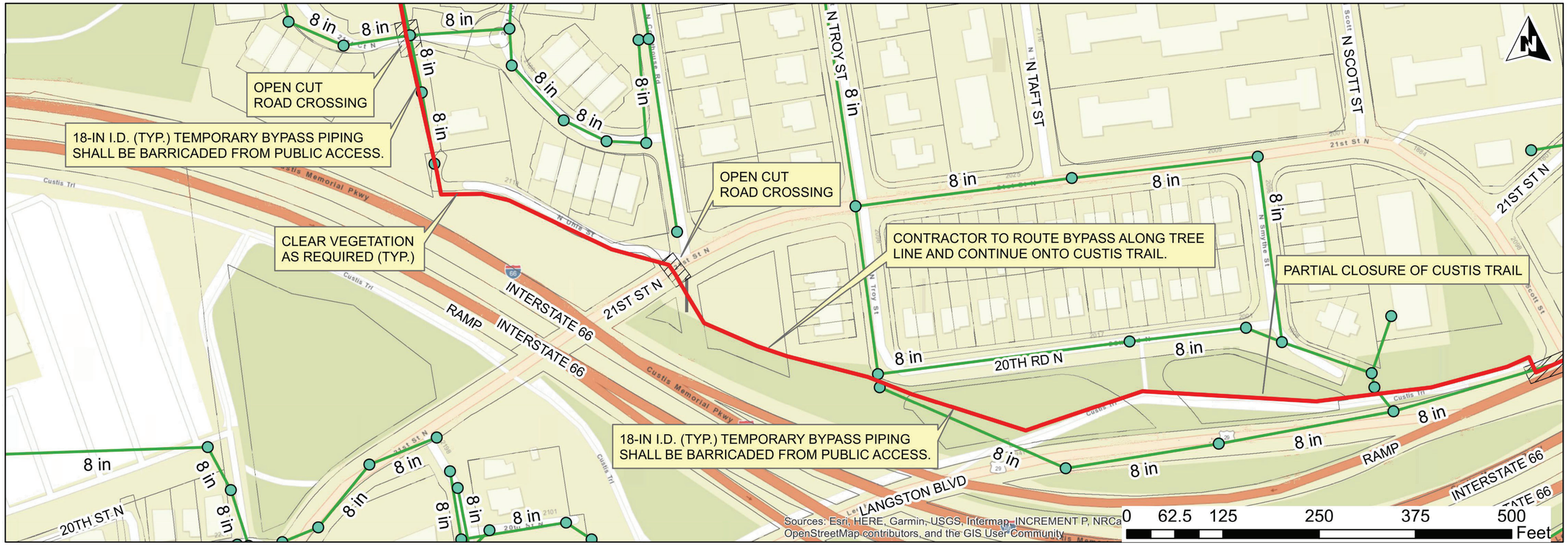
DESIGNED: R. PANNEERSELVAM
DRAWN: J. SOSA
CHECKED: D. GILROY

PLOTTED: DECEMBER 7 2022

CDM Smith
10560 Arrowhead Drive, Suite 500
Fairfax, VA 22030
Tel: (703) 691-6500

FILENAME: 000-BYPL1.DWG PATH: C:\PW_PL1\SOSA1\D2544232 PLOTTED BY: SOSAJ1

REVISED ON 03/29/2021



Legend

- Bypass #1
- Bypass #2
- Bypass #3
- Rehab Sewer
- Existing Sewer
- Proposed New Manhole
- Manhole
- Existing Manhole
- Open Cut Road Crossing
- Rehab Access
- Pump Platform
- Gravel Pad
- Bypass Generator

GENERAL NOTES:

1. SUGGESTED TEMPORARY BYPASS APPROACH WAS DEVELOPED TO SECURE NATIONAL PARK SERVICE AND VDOT LAND USE PERMITS. CONTRACTOR MAY ELECT TO FOLLOW A DIFFERENT BYPASS PLAN, HOWEVER, WILL BE RESPONSIBLE FOR SECURING PERMITS, AND ANY RESULTING CONSTRUCTION SCHEDULE DELAYS OR COSTS.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK ASSOCIATED WITH TEMPORARY BYPASS PUMPING, INCLUDING BUT NOT LIMITED TO, PLACING AND MAINTAININQ/FUELING BYPASS PUMPS, LAYING PIPES OVER LAND, AND OPEN CUT ROAD CROSSINGS AS SHOWN ON THE PLANS.
3. CONTRACTOR TO STABILIZE AND ANCHOR THE BYPASS PIPES TO PREVENT PIPES FROM MOVING DURING OPERATION.

ARLINGTON VIRGINIA

DEPARTMENT OF ENVIRONMENTAL SERVICES
Water Sewer Streets Bureau
4200 28th St S, TWA 1st Fl
Arlington, VA 22202
Phone: 703.228.7865
Fax: 703.228.6585

COPYRIGHT © 2022 ARLINGTON COUNTY VIRGINIA - ALL RIGHTS RESERVED

SEAL

COMMONWEALTH OF VIRGINIA
DANIEL G. GILROY
Lic. No. 0402022914
12/7/2022
PROFESSIONAL ENGINEER

APPROVALS	DATE
DESIGN ENGINEER TEAM SUPERVISOR	12/13/2022
CONSTRUCTION MANAGEMENT SUPERVISOR	12/15/2022
WATER, SEWER, STREETS BUREAU CHIEF	12/14/22
TRANSPORTATION DIRECTOR (Dennis M. Leach)	12/14/22
PROJECT MANAGER (Nicole Dean)	12/15/2022

REVISIONS	DATE

SPOUT RUN DEEP SEWER REHABILITATION

SUGGESTED TEMPORARY BYPASS APPROACH II

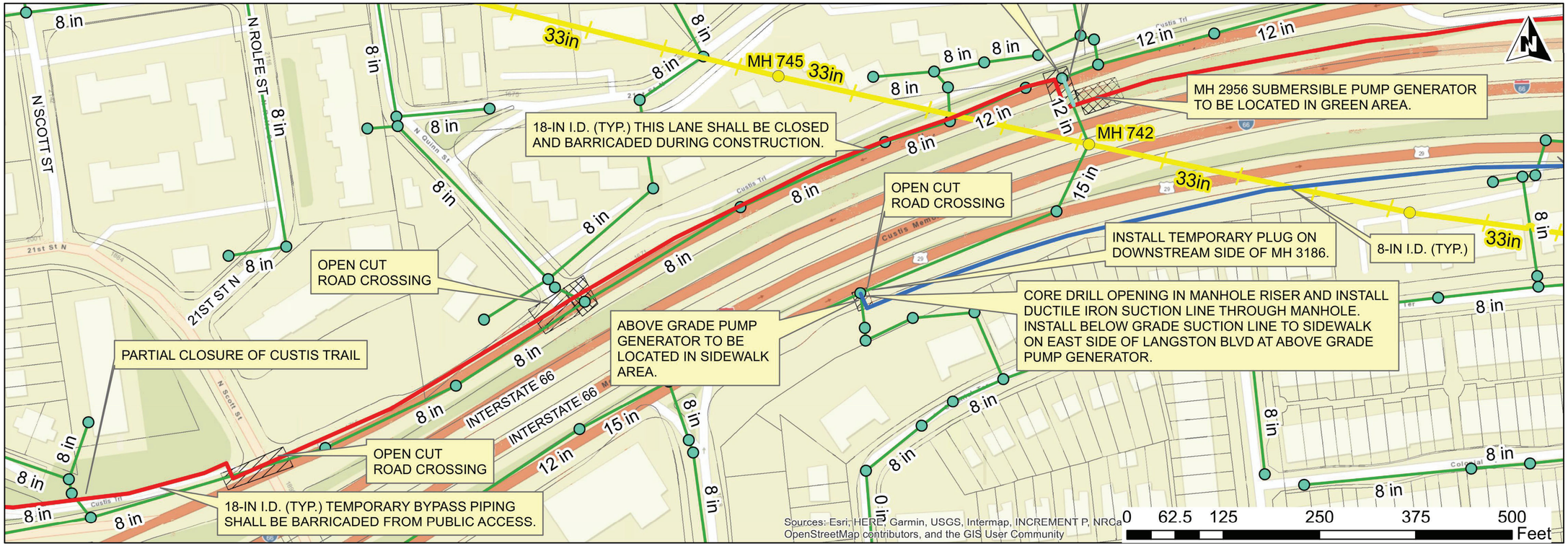
DESIGNED: R. PANNEERSELVAM
DRAWN: J. SOSA
CHECKED: D. GILROY

PLOTTED: DECEMBER 7 2022

CDM Smith
10560 Arrowhead Drive, Suite 500
Fairfax, VA 22030
Tel: (703) 691-6500

FILENAME: 000-BYPL1.DWG PATH: C:\PW_PL1\SOSA1\D2544232 PLOTTED BY: SOSAJ1

REVISED ON 03/29/2021



Legend

- Bypass #1
- Bypass #2
- Bypass #3
- Rehab Sewer
- Existing Sewer
- Proposed New Manhole
- Manhole
- Existing Manhole
- Open Cut Road Crossing
- Rehab Access
- Pump Platform
- Gravel Pad
- Bypass Generator

GENERAL NOTES:

1. SUGGESTED TEMPORARY BYPASS APPROACH WAS DEVELOPED TO SECURE NATIONAL PARK SERVICE AND VDOT LAND USE PERMITS. CONTRACTOR MAY ELECT TO FOLLOW A DIFFERENT BYPASS PLAN, HOWEVER, WILL BE RESPONSIBLE FOR SECURING PERMITS, AND ANY RESULTING CONSTRUCTION SCHEDULE DELAYS OR COSTS.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK ASSOCIATED WITH TEMPORARY BYPASS PUMPING, INCLUDING BUT NOT LIMITED TO, PLACING AND MAINTAININQ/FUELING BYPASS PUMPS, LAYING PIPES OVER LAND, AND OPEN CUT ROAD CROSSINGS AS SHOWN ON THE PLANS.
3. CONTRACTOR TO STABILIZE AND ANCHOR THE BYPASS PIPES TO PREVENT PIPES FROM MOVING DURING OPERATION.

ARLINGTON VIRGINIA

DEPARTMENT OF ENVIRONMENTAL SERVICES
Water Sewer Streets Bureau
4200 28th St S, TWA 1st Fl
Arlington, VA 22202
Phone: 703.228.7865
Fax: 703.228.6585

COPYRIGHT © 2022 ARLINGTON COUNTY VIRGINIA - ALL RIGHTS RESERVED

SEAL

COMMONWEALTH OF VIRGINIA
DANIEL G. GILROY
Lic. No. 0402022914
12/7/2022
PROFESSIONAL ENGINEER

APPROVALS	DATE
DESIGN ENGINEER TEAM SUPERVISOR	12/13/2022
CONSTRUCTION MANAGEMENT SUPERVISOR	12/15/2022
WATER SEWER. STREETS BUREAU CHIEF	12/14/22
TRANSPORTATION DIRECTOR (Dennis M. Leach)	12/14/22
PROJECT MANAGER (Nicole Dean)	12/15/2022

REVISIONS	DATE

SPOUT RUN DEEP SEWER REHABILITATION

SUGGESTED TEMPORARY BYPASS APPROACH III

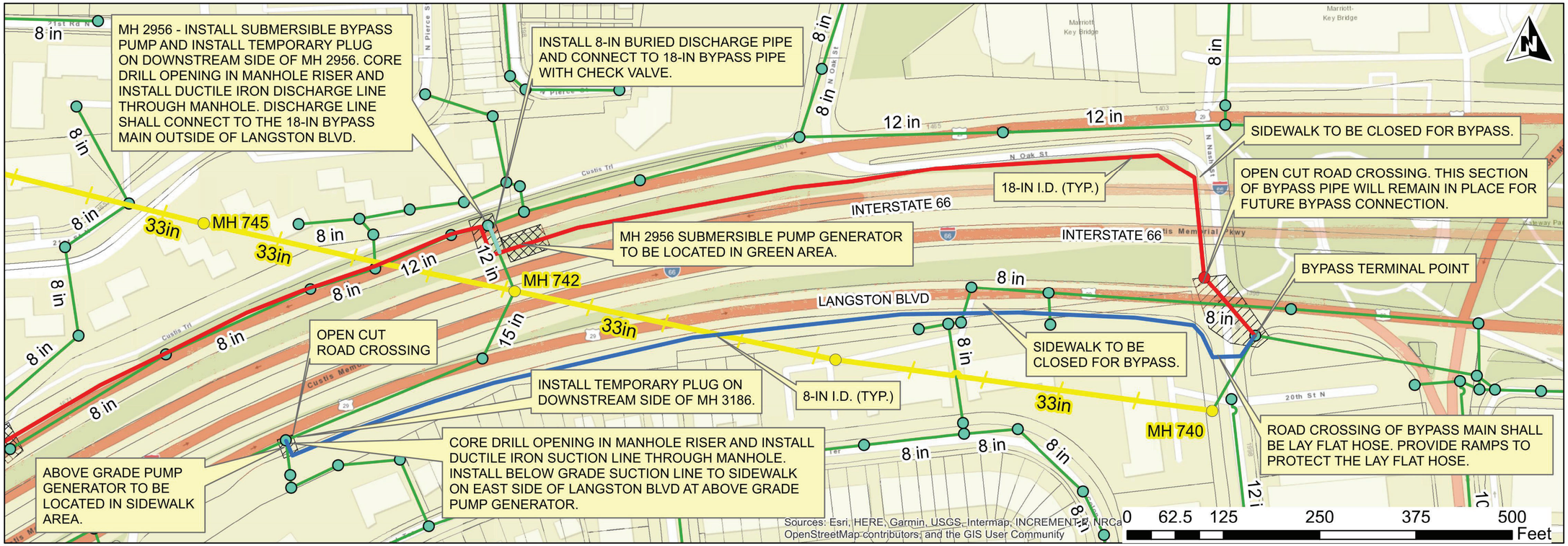
DESIGNED: R. PANNEERSELVAM
DRAWN: J. SOSA
CHECKED: D. GILROY

PLOTTED: DECEMBER 7 2022

CDM Smith
10560 Arrowhead Drive, Suite 500
Fairfax, VA 22030
Tel: (703) 691-6500

FILENAME: 000-BYPL1.DWG PATH: C:\PW_PL1\SOSA1\D2544232 PLOTTED BY: SOSAJ1

REVISED ON 03/29/2021



Legend

- Bypass #1
- Bypass #2
- Bypass #3
- Rehab Sewer
- Existing Sewer
- Proposed New Manhole
- Manhole
- Existing Manhole
- Open Cut Road Crossing
- Rehab Access
- Pump Platform
- Gravel Pad
- Bypass Generator

GENERAL NOTES:

1. SUGGESTED TEMPORARY BYPASS APPROACH WAS DEVELOPED TO SECURE NATIONAL PARK SERVICE AND VDOT LAND USE PERMITS. CONTRACTOR MAY ELECT TO FOLLOW A DIFFERENT BYPASS PLAN, HOWEVER, WILL BE RESPONSIBLE FOR SECURING PERMITS, AND ANY RESULTING CONSTRUCTION SCHEDULE DELAYS OR COSTS.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK ASSOCIATED WITH TEMPORARY BYPASS PUMPING, INCLUDING BUT NOT LIMITED TO, PLACING AND MAINTAINING/FUELING BYPASS PUMPS, LAYING PIPES OVER LAND, AND OPEN CUT ROAD CROSSINGS AS SHOWN ON THE PLANS
3. CONTRACTOR SHALL FIELD LOCATE ACCESS VAULT ALONG THE SIDEWALK AT N NASH ST. SEE DETAIL SHEET 21 OF 46.
4. CONTRACTOR SHALL FIELD ROUTE THE BURIED BYPASS PIPING TO THE TERMINAL MANHOLE AT N NASH ST. BYPASS LINE SHALL BE CORED THROUGH INTO THE EXISTING MANHOLE. INSTALLATION OF THE TEMPORARY INTERNAL DROP CONNECTION SHALL BE PER DETAIL ON SHEET 22 OF 46.
5. CONTRACTOR TO STABILIZE AND ANCHOR THE BYPASS PIPES TO PREVENT PIPES FROM MOVING DURING OPERATION.

ARLINGTON VIRGINIA
DEPARTMENT OF ENVIRONMENTAL SERVICES
Water Sewer Streets Bureau
4200 28th St S, TWA 1st Fl
Arlington, VA 22202
Phone: 703.228.7865
Fax: 703.228.6585

COPYRIGHT © 2022 ARLINGTON COUNTY VIRGINIA - ALL RIGHTS RESERVED

SEAL
COMMONWEALTH OF VIRGINIA
DANIEL G. GILROY
Lic. No. 0402022914
12/7/2022
PROFESSIONAL ENGINEER

APPROVALS	DATE
DESIGN ENGINEER TEAM SUPERVISOR	12/13/2022
CONSTRUCTION MANAGEMENT SUPERVISOR	12/15/2022
WATER, SEWER, STREETS BUREAU CHIEF	12/14/22
TRANSPORTATION DIRECTOR (Dennis M. Leach)	12/14/22
PROJECT MANAGER (Nicole Dean)	12/15/2022

REVISIONS	DATE

SPOUT RUN DEEP SEWER REHABILITATION

SUGGESTED TEMPORARY BYPASS APPROACH IV

DESIGNED: R. PANNEERSELVAM
DRAWN: J. SOSA
CHECKED: D. GILROY

PLOTTED: DECEMBER 7 2022

CDM Smith
10560 Arrowhead Drive, Suite 500
Fairfax, VA 22030
Tel: (703) 691-6500

FILENAME: 000-BYPL1.DWG PATH: C:\PW_PL1\SOSA1\D2544232 PLOTTED BY: SOSAJ1

REVISED ON 03/29/2021

CURED IN PLACE LINING TABLE

SHEET NO.	PIPE SEGMENT	STREET /ACCESS	UPSTREAM MH	DOWNSTREAM MH	LENGTH (FT)*	DIA. (IN)	PIPE MATERIAL	UPSTREAM MH DEPTH (FT)*	DOWNSTREAM MH DEPTH (FT)*	SLOPE (%)	NOTES
4	750-749	EAST BOUND OF SPOUT RUN PKWY	MH-750	MH-749	32	33	REINFORCED CONCRETE PIPE	11	14	0.15	
4	749-748	EAST BOUND OF SPOUT RUN PKWY AND 2148 N. TAFT STREET	MH-749	MH-748	505	33	REINFORCED CONCRETE PIPE	14	119	0.15	
5	748-747	2148 N. TAFT STREET AND 2135 TO 2123 N. SCOTT STREET	MH-748	MH-747	450	33	REINFORCED CONCRETE PIPE	119	101	0.15	INVERT OF MH 747 IS NOT ACCESSIBLE FROM THE SURFACE AND CAN NOT BE USED FOR LINING.
5	747-746	2135 TO 2123 N. SCOTT STREET AND 2109 N. QUINN STREET	MH-747	MH-746	496	33	REINFORCED CONCRETE PIPE	101	108	0.15	INVERT OF MH 747 IS NOT ACCESSIBLE FROM THE SURFACE AND CAN NOT BE USED FOR LINING.
6	746-745	2109 N. QUINN STREET	MH-746	MH-745	537	33	REINFORCED CONCRETE PIPE	108	83	0.15	MH 745 IS LOCATED ON PRIVATE PROPERTY AND HAS LIMITED ACCESS. IT CAN NOT BE USED TO LAUNCH THE LINER.
7	745-742	1658 21ST STREET N	MH-745	MH-742	414	33	REINFORCED CONCRETE PIPE	83	40	0.15	MH 745 IS LOCATED ON PRIVATE PROPERTY AND HAS LIMITED ACCESS. IT CAN NOT BE USED TO LAUNCH THE LINER. MH 742 IS LOCATED IN I-66 MEDIAN AND CAN NOT BE USED TO LAUNCH THE LINER.
8	742-741	I-66 (EAST BOUND)	MH-742	MH-741	437	33	REINFORCED CONCRETE PIPE	40	67	0.16	MH 742 IS LOCATED IN I-66 MEDIAN AND CAN NOT BE USED TO LAUNCH THE LINER. MH 741 TOP IS BURIED APPROXIMATELY 20 FT BELOW GROUND AND SHALL BE RAISED TO GRADE.
9	741-740	PARKING LOT OF 1593 N. COLONIAL TERRACE	MH-741	MH-740	500	33	REINFORCED CONCRETE PIPE	67	40	0.16	MH 741 TOP IS BURIED APPROXIMATELY 20 FT BELOW GROUND AND SHALL BE RAISED TO GRADE.

NOTES:

1. *CONTRACTOR TO FIELD VERIFY THE MANHOLE DEPTHS AND PIPE SEGMENT LENGTHS. MANHOLE DEPTHS AND PIPE SEGMENT LENGTHS AND SLOPES PROVIDED IN TABLE ABOVE ARE FROM AS-BUILT RECORDS. NOTE THAT SEWER LENGTHS SHOWN ARE MH CENTER TO MH CENTER.
2. PRIOR CCTV INSPECTION VIDEOS ARE AVAILABLE UPON REQUEST.
3. REMOVE MANHOLE STEPS PRIOR TO REHABILITATION, EXCEPT FOR MH 747 (NOT ACCESSIBLE FROM THE SURFACE).
4. CONTRACTOR SHALL GENERATE MACP REPORTS FOR THE FOLLOWING MANHOLES: MH 750, MH 749, MH 748, MH 746, MH 745, MH 742, MH 741, MH 740.

ARLINGTON VIRGINIA

DEPARTMENT OF ENVIRONMENTAL SERVICES
Water Sewer Streets Bureau
4200 28th St S, TWA 1st Fl
Arlington, VA 22202
Phone: 703.228.7865
Fax: 703.228.6585

COPYRIGHT © 2022 ARLINGTON COUNTY VIRGINIA - ALL RIGHTS RESERVED

SEAL

COMMONWEALTH OF VIRGINIA
DANIEL G. GILROY
Lic. No. 0402022914
12/7/2022
PROFESSIONAL ENGINEER

APPROVALS	DATE
DESIGN ENGINEER TEAM SUPERVISOR	12/13/2022
CONSTRUCTION MANAGEMENT SUPERVISOR	12/15/2022
WATER, SEWER, STREETS BUREAU CHIEF	12/14/22
Dennis M. Leach TRANSPORTATION DIRECTOR	12/14/22
Nicole Dean PROJECT MANAGER	12/15/2022

REVISIONS	DATE

SPOUT RUN DEEP SEWER REHABILITATION

CURED IN PLACE LINING TABLE

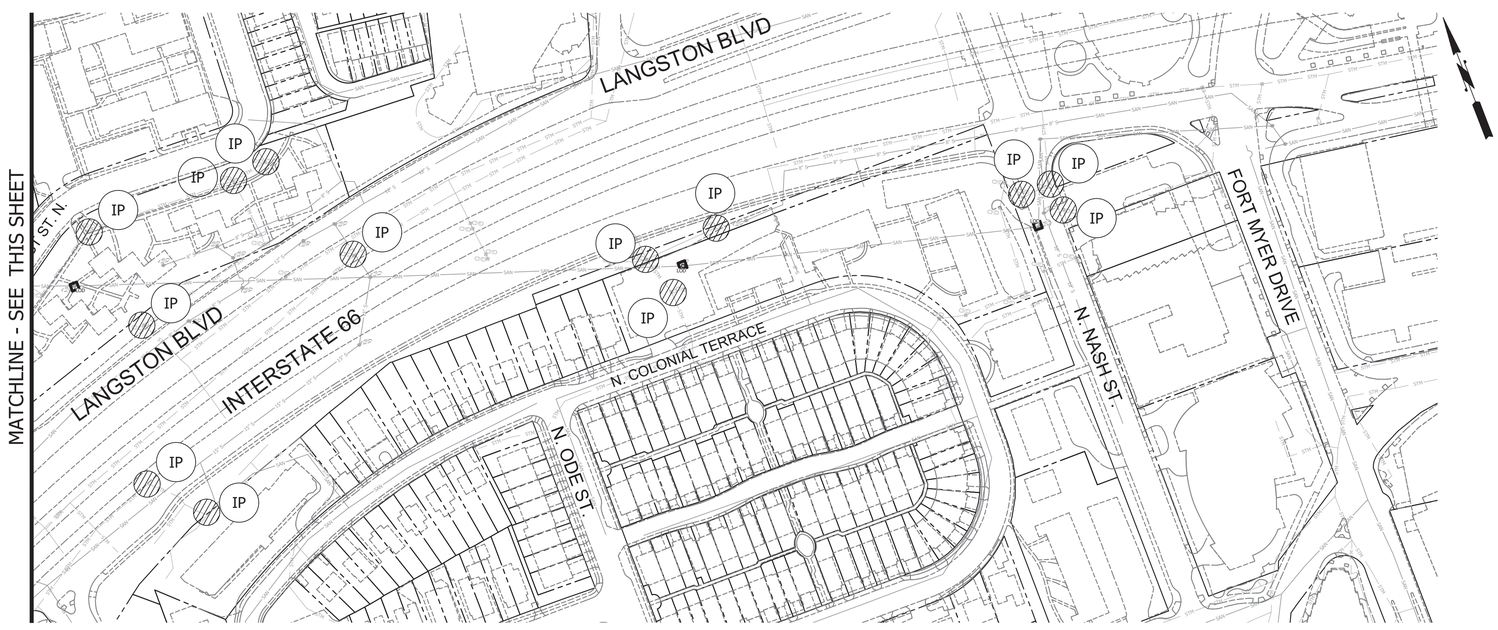
DESIGNED: R. PANNEERSELVAM
DRAWN: J. SOSA
CHECKED: D. GILROY

PLOTTED: DECEMBER 7 2022

CDM Smith
10560 Arrowhead Drive, Suite 500
Fairfax, VA 22030
Tel: (703) 691-6500

FILENAME: 000-LTB1.DWG PATH: C:\PW_PL11\SOSAJ1\D2594232 PLOTTED BY: SOSAJ1

REVISED ON 03/29/2021



NOTES:
1. CONTRACTOR TO IMPLEMENT E&S MEASURES IN COMPLIANCE WITH COUNTY'S REQUIREMENTS BASED ON WHICH MANHOLES ARE ACCESSED.
2. GENERAL LAYOUT AND ALIGNMENT OF STORM DRAIN INLETS SHOWN. CONTRACTOR TO FIELD VERIFY.

EROSION AND SEDIMENT CONTROL LEGEND

3.02	TEMPORARY CONSTRUCTION ENTRANCE	CE	
3.05	TEMPORARY SILT FENCE	SF	
3.09	TEMPORARY DIVERSION DIKE	DD	
3.07	STORM DRAIN INLET PROTECTION	IP	
3.26	DEWATERING STRUCTURE	DS	
3.38	TREE PROTECTION	TP	TP TP
3.30	TOPSOILING - STOCKPILE	TO	
3.31	TEMPORARY SEEDING	TS	
3.36	EROSION CONTROL BLANKET	B\M	
3.39	DUST CONTROL	DC	
3.32	PERMANENT SEEDING	PS	
3.33	SODDING	SO	
	LIMITS OF DISTURBANCE		LOD LOD
	LIMITS OF WORK		LOW LOW
	ROOT PRUNING		RP RP
	CRITICAL ROOT ZONE		CRZ CRZ

0 100 200
GRAPHIC SCALE

ARLINGTON VIRGINIA
DEPARTMENT OF ENVIRONMENTAL SERVICES
Water Sewer Streets Bureau
4200 28th St S, TWA 1st Fl
Arlington, VA 22202
Phone: 703.228.7865
Fax: 703.228.6585

COPYRIGHT © 2022 ARLINGTON COUNTY VIRGINIA - ALL RIGHTS RESERVED

SEAL
COMMONWEALTH OF VIRGINIA
DANIEL G. GILROY
Lic. No. 0402022914
12/7/2022
PROFESSIONAL ENGINEER

APPROVALS	DATE
DESIGN ENGINEER TEAM SUPERVISOR	12/13/2022
CONSTRUCTION MANAGEMENT SUPERVISOR	12/15/2022
WATER, SEWER, STREETS BUREAU CHIEF	12/14/22
Dennis M. Leach TRANSPORTATION DIRECTOR	12/14/22
Nicole Dean PROJECT MANAGER	12/15/2022

REVISIONS	DATE

SPOUT RUN DEEP SEWER REHABILITATION

EROSION AND SEDIMENT CONTROL PLAN

DESIGNED: R. PANNEERSELVAM
DRAWN: J. SOSA
CHECKED: D. GILROY
PLOTTED: DECEMBER 7 2022

CDM Smith
10560 Arrowhead Drive, Suite 500
Fairfax, VA 22030
Tel: (703) 691-6500

FILENAME: 000-ESPL1.DWG PATH: C:\PW_PL11\SOSAJ1\D2544232 PLOTTED BY: SOSAJ

REVISED ON 03/29/2021

EROSION AND SEDIMENT CONTROL NARRATIVE

PROJECT DESCRIPTION:

THE SPOUT RUN DEEP SEWER CIPP LINING PROJECT INCLUDES REHABILITATION OF APPROXIMATELY 3,371 LINEAR FEET OF 33-INCH REINFORCED CONCRETE PIPE (RCP) WITH 33-INCH CIPP CONVENTIONAL CURING. THIS PROJECT APPROXIMATELY RUNS FROM EAST BOUND OF SPOUT RUN PARKWAY, ACROSS INTERSTATE I-66 TO NORTH NASH STREET. THE APPROXIMATE DISTURBED AREA FOR THIS PROJECT IS 1,100 SQFT.

EXISTING SITE CONDITIONS:

CONTRACTOR SHALL FIELD VERIFY ALL MANHOLE ELEVATIONS AND PIPE LENGTHS PRIOR TO CONSTRUCTION.

MANHOLE 750 AND 749 ARE LOCATED BY SPOUT RUN CREEK. THE WATER LEVEL OF THIS CREEK CAN FLUCTUATE DURING THE SUMMER IN WET CONDITIONS.

MANHOLE 748, 747, AND 746 ARE LOCATED ON PAVED LOCAL ROADS IN RESIDENTIAL AREAS. STREET PARKING ON EITHER SIDE IS ALLOWED EXCEPT FOR NORTH SCOTT STREET. MH-748 IS LOCATED NEAR PROTECTED HISTORICAL PROPERTY, DAWSON-BAILEY HOUSE.

MANHOLE 745 IS INACCESSIBLE DUE TO ITS LOCATION IN BETWEEN TWO CONDOMINIUM BUILDINGS.

MANHOLE 742 IS LOCATED IN THE MEDIAN OF I-66.

MANHOLE 741 IS LOCATED IN NORTH COLONIAL TERRACE PARKING LOT.

MANHOLE 740 IS LOCATED BY THE PARKING LOT ENTRANCE OF GEORGETOWN VISTA CONDOMINIUM.

ADJACENT PROPERTIES:

MANHOLE 750 AND 749 ARE LOCATED IN NATIONAL PARK SERVICE (NPS) PROPERTY.

MANHOLE 748 IS LOCATED NEAR PROTECTED HISTORICAL PROPERTY, THE DAWSON-BAILEY HOUSE. THIS HISTORICAL AREA CANNOT BE DISTURBED. THERE ARE ALSO RESIDENTIAL PROPERTIES ON THE WEST SIDE OF NORTH TAFT STREET.

MANHOLE 747, 746, 745, 741, AND 740 ARE IN RESIDENTIAL AREAS.

OFF-SITE AREAS:

CONTRACTOR'S LAYDOWN AREA: TO BE DETERMINED.

POTENTIAL PARKING AREAS: TO BE DETERMINED.

CRITICAL AREAS:

THERE ARE NO STEEP SLOPES WITHIN THE LIMITS OF DISTURBANCE. THE FOLLOWING ARE THE CRITICAL AREAS WITHIN THE LIMITS OF DISTURBANCE:

MANHOLE 750 AND 749 ARE LOCATED BY SPOUT RUN CREEK. THE WATER LEVEL OF THIS CREEK CAN FLUCTUATE DURING THE SUMMER IN WET CONDITION.

MANHOLE 748 IS LOCATED NEAR PROTECTED HISTORICAL PROPERTY, THE DAWSON-BAILEY HOUSE. THIS HISTORICAL AREA CANNOT BE DISTURBED.

MANHOLE 745 IS INACCESSIBLE DUE TO ITS LOCATION IN BETWEEN TWO CONDOMINIUM BUILDINGS.

MANHOLE 742 IS LOCATED IN THE MEDIAN OF I-66.

EROSION AND SEDIMENT CONTROL MEASURES:

THE EROSION AND SEDIMENT CONTROL MEASURES FOR THIS PROJECT AREA INCLUDE SILT FENCE AND INLET PROTECTION. INLET PROTECTION IS REQUIRED OUTSIDE THE PROJECT LIMITS WHEN/WHERE SURFACE WATER FROM DISTURBED AREA FLOWS.

PERMANENT STABILIZATION:

ALL NON-PAVED 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 = 1,100 SF (0.03 ACRES)

SOILS INFORMATION:

THE FOLLOWING SOILS ARE FOUND ON SITE (SEE SOIL MAP ON SHEET 18 FOR LOCATION)

6D	GLENELG-MANOR COMPLEX
12	URBAN LAND-UDORTHENTS COMPLEX
4B	URBAN LAND-SASSAFRAS-NEABSCO COMPLEX
10C	URBAN LAND-GLENELG COMPLEX
10D	URBAN LAND-GLENELG COMPLEX

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, AND COUNTY INSPECTOR.

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 EXITING 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. PERFORM INITIAL PERIMETER CLEARING TO INSTALL REMAINDER OF PERIMETER CONTROLS SUCH AS DIVERSION DIKE (DD), SILT FENCE (SF), AND SUPER SILT FENCE (SSF) AS PER THE PHASE I PLAN.

e. SEED AND MULCH ALL EARTHEN CONTROLS.

f. 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.

g. CLEAR THE SITE TO THE LIMITS AS SHOWN ON THE CONSTRUCTION PLANS.

2. PHASE II:

a. BEGIN UTILITY CONSTRUCTION, INSTALL ALL UNDERGROUND UTILITIES AND BEGIN SITE GRADING.

b. INLET PROTECTION (IP) SHALL BE PROVIDED AT STORM DRAIN INLETS AS SHOWN.

c. ONCE THE SITE IS BROUGHT TO NEAR FINAL GRADE, AND THE UTILITY CONSTRUCTION IS COMPLETE, COMMENCE CONSTRUCTION OF CURB & GUTTER, STREET, SIDEWALKS, AND OTHER IMPROVEMENTS.

d. 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.

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.

ARLINGTON VIRGINIA
DEPARTMENT OF ENVIRONMENTAL SERVICES
Water Sewer Streets Bureau
4200 28th St S, TWA 1st Fl
Arlington, VA 22202
Phone: 703.228.7865
Fax: 703.228.6585

COPYRIGHT © 2022 ARLINGTON COUNTY VIRGINIA - ALL RIGHTS RESERVED

SEAL

COMMONWEALTH OF VIRGINIA
DANIEL G. GILROY
Lic. No. 0402022914
12/7/2022
PROFESSIONAL ENGINEER

APPROVALS	DATE
DESIGN ENGINEER TEAM SUPERVISOR	12/13/2022
CONSTRUCTION MANAGEMENT SUPERVISOR	12/15/2022
WATER, SEWER, STREETS BUREAU CHIEF	12/14/22
Dennis M. Leach TRANSPORTATION DIRECTOR	12/14/22
Nicole Dean PROJECT MANAGER	12/15/2022

REVISIONS	DATE

SPOUT RUN DEEP SEWER REHABILITATION

EROSION AND SEDIMENT CONTROL NARRATIVE

DESIGNED: R. PANNEERSELVAM
DRAWN: J. SOSA
CHECKED: D. GILROY

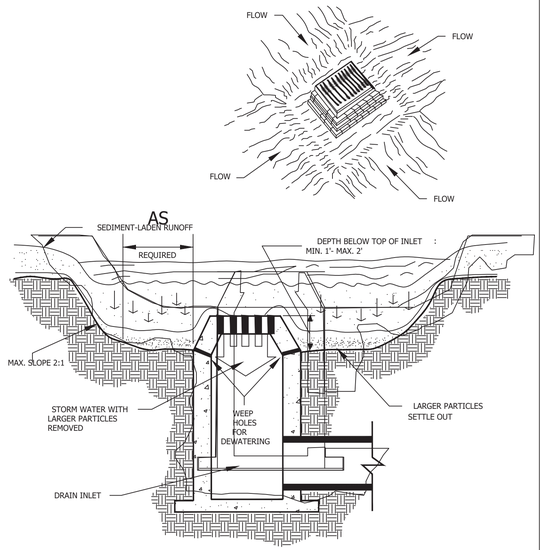
PLOTTED: DECEMBER 7 2022

CDM Smith
10560 Arrowhead Drive, Suite 500
Fairfax, VA 22030
Tel: (703) 691-6500

FILENAME: 000-ESNT1.DWG PATH: C:\PW_PL1\SOSAJJ\D2544232 PLOTTED BY: SOSAJJ

REVISED ON 03/29/2021

EXCAVATED DROP INLET SEDIMENT TRAP

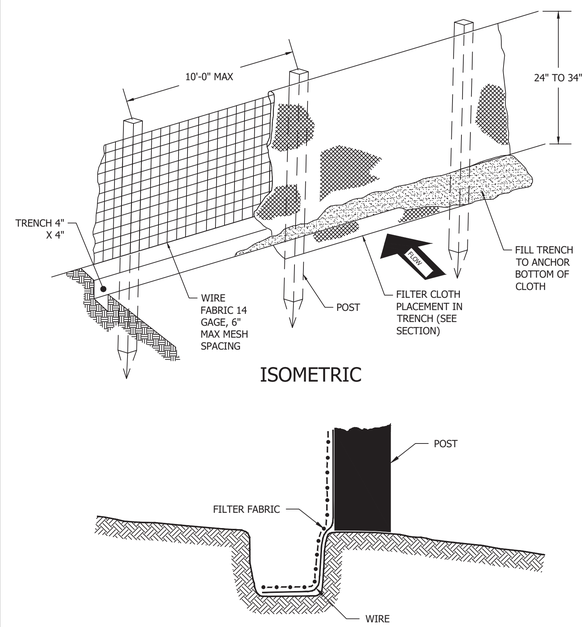


SPECIFIC APPLICATION

THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE HEAVY FLOWS ARE EXPECTED AND WHERE AN OVERFLOW CAPABILITY AND EASE OF MAINTENANCE ARE DESIRABLE.

SOURCE: MICHIGAN SOIL EROSION AND SEDIMENT CONTROL GUIDEBOOK, 1975, AND USDA-SCS

PLATE 3.07-4

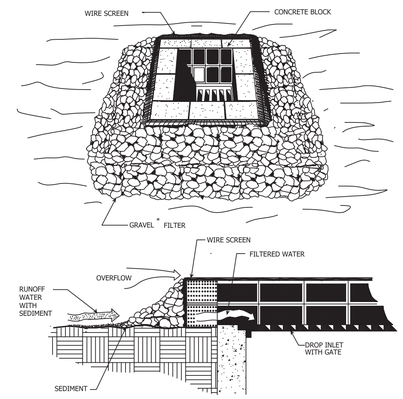


MODIFIED-VESCH 3.05

SILT FENCE

NOT TO SCALE

BLOCK AND GRAVEL DROP INLET SEDIMENT FILTER



SPECIFIC APPLICATION

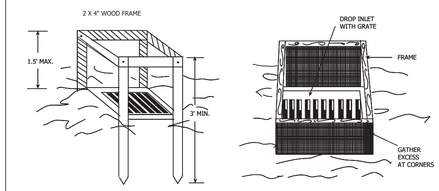
THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE HEAVY FLOWS ARE EXPECTED AND WHERE AN OVERFLOW CAPACITY IS NECESSARY TO PREVENT EXCESSIVE PONDING AROUND THE STRUCTURE.

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

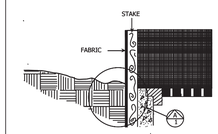
SOURCE: VA. DSWC

PLATE. 3.07-3

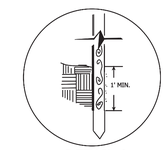
SILT FENCE DROP INLET PROTECTION



PERSPECTIVE VIEWS



ELEVATION OF STAKE AND FABRIC ORIENTATION



DETAIL A

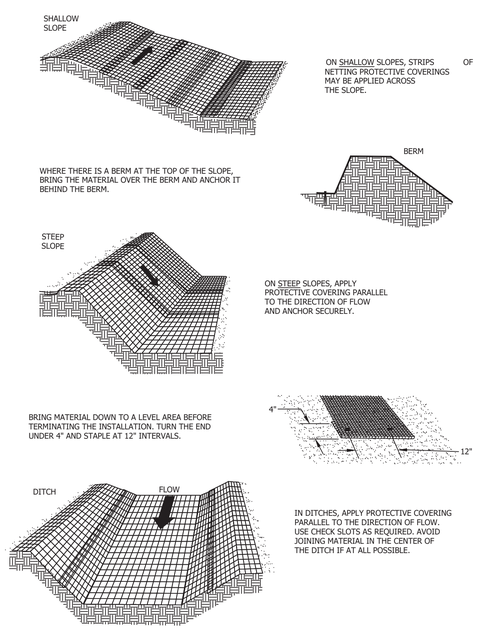
SPECIFIC APPLICATION

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

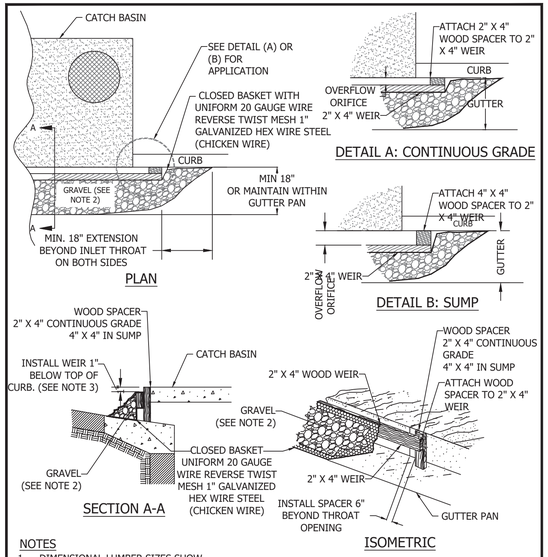
PLATE 3.07-1

TYPICAL ORIENTATION OF TREATMENT - 1 (SOIL STABILIZATION BLANKET)



SOURCE: ADAPTED FROM LUDLOW PRODUCTS BROCHURE

PLATE: 3.36-1



NOTES

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

CURB INLET PROTECTION

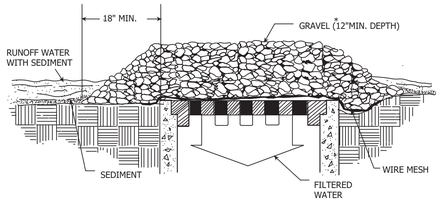
REVISION & DATE

ARLINGTON VIRGINIA

ARLINGTON COUNTY, VIRGINIA
DEPARTMENT OF ENVIRONMENTAL SERVICES

DRAWING NO. 3.07-7 (ACG)

GRAVEL AND WIRE MESH DROP INLET SEDIMENT FILTER



SPECIFIC APPLICATION

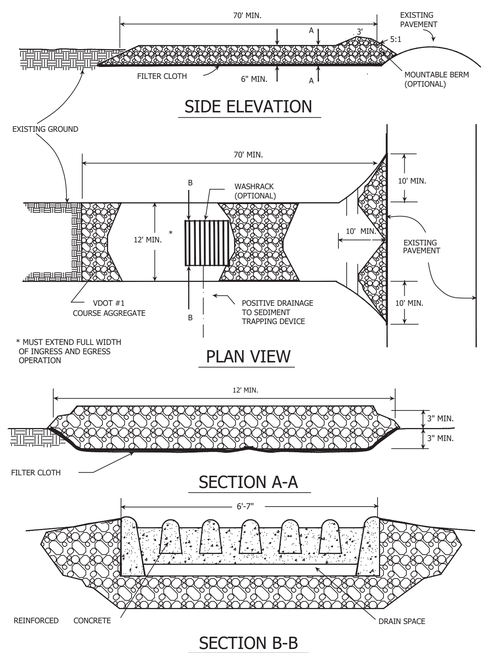
THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE HEAVY FLOWS ARE EXPECTED BUT NOT WHERE PONDING AROUND THE STRUCTURE MIGHT CAUSE EXCESSIVE INCONVENIENCE OR DAMAGE TO ADJACENT STRUCTURES AND UNPROTECTED AREAS.

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

SOURCE: VA. DSWC

PLATE. 3.07-2

STONE CONSTRUCTION ENTRANCE



SOURCE: ADAPTED from 1983 Maryland Standards for Soil erosion and Sediment Control, and Va. DSWC

Plate 3.02-1

ARLINGTON VIRGINIA

DEPARTMENT OF ENVIRONMENTAL SERVICES
Water Sewer Streets Bureau
4200 28th St S, TWA 1st Fl
Arlington, VA 22202
Phone: 703.228.7865
Fax: 703.228.6585

COPYRIGHT © 2022 ARLINGTON COUNTY VIRGINIA - ALL RIGHTS RESERVED

SEAL

COMMONWEALTH OF VIRGINIA
DANIEL G. GILROY
Lic. No. 0402022914
12/7/2022
PROFESSIONAL ENGINEER

APPROVALS	DATE
DESIGN ENGINEER TEAM SUPERVISOR	12/13/2022
CONSTRUCTION MANAGEMENT SUPERVISOR	12/15/2022
WATER, SEWER, STREETS BUREAU CHIEF	12/14/22
TRANSPORTATION DIRECTOR	12/14/22
PROJECT MANAGER	12/15/2022

REVISIONS	DATE

SPOUT RUN DEEP SEWER REHABILITATION

EROSION AND SEDIMENT CONTROL DETAILS

DESIGNED: R. PANNEERSELVAM
DRAWN: J. SOSA
CHECKED: D. GILROY

PLOTTED: DECEMBER 7 2022

CDM Smith
10560 Arrowhead Drive, Suite 500
Fairfax, VA 22030
Tel: (703) 691-6500

FILENAME: 000-ESDT2.DWG PATH: C:\PW_PL\SOSAJ\D2594232 PLOTTED BY: SOSAJ

REVISED ON 03/29/2021

UTILITY INSTALLATION:

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

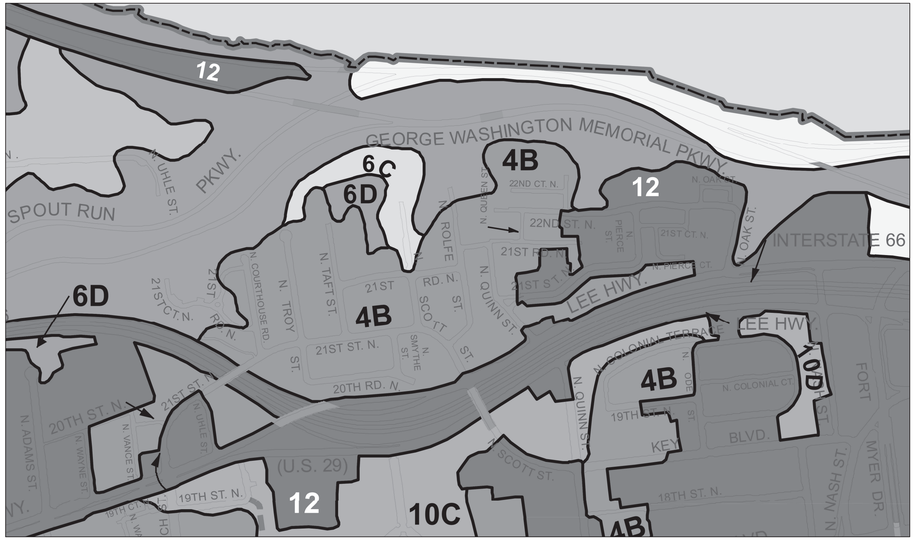
1. NO MORE THAN 100 LINEAR FEET OF TRENCH MAY BE OPENED AT ONE TIME.
2. EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF TRENCHES.
3. EFFLUENT FROM DEWATERING OPERATIONS SHALL BE FILTERED OR PASSED THROUGH AN APPROVED SEDIMENT TRAPPING DEVICE, OR BOTH, AND DISCHARGED IN A MANNER THAT DOES NOT 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.

COUNTY SOILS MAP DATA



Potential Sources of Pollution & Pollution Prevention Practices

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

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

Authorized Non-Stormwater Discharges

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

Type of Authorized Non-Stormwater Discharge	Likely Present at Your Project Site?	
External buildings wash down	☐ Yes	☒ No
Uncontaminated foundation or footing drains	☐ Yes	☒ No
Uncontaminated excavation dewatering	☒ Yes	☐ No
Landscape irrigation	☐ Yes	☒ No

Spill Prevention & Response

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

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

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

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

Emergency Contacts:

Local Contacts

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

Nights, Holidays & Weekends

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

Spill kit on site: ☐ Yes ☐ No

Location(s) of spill kit: _____

ARLINGTON VIRGINIA

DEPARTMENT OF ENVIRONMENTAL SERVICES
Water Sewer Streets Bureau
4200 28th St S, TWA 1st Fl
Arlington, VA 22202
Phone: 703.228.7865
Fax: 703.228.6585

COPYRIGHT © 2022 ARLINGTON COUNTY VIRGINIA - ALL RIGHTS RESERVED

SEAL

COMMONWEALTH OF VIRGINIA
DANIEL G. GILROY
Lic. No. 0402022914
12/7/2022
PROFESSIONAL ENGINEER

APPROVALS	DATE
DESIGN ENGINEER TEAM SUPERVISOR	12/13/2022
CONSTRUCTION MANAGEMENT SUPERVISOR	12/15/2022
WATER, SEWER, STREETS BUREAU CHIEF	12/14/22
Dennis M. Leach TRANSPORTATION DIRECTOR	12/14/22
Nicole Dean PROJECT MANAGER	12/15/2022

REVISIONS	DATE

SPOUT RUN DEEP SEWER REHABILITATION

EROSION AND SEDIMENT CONTROL DETAILS

DESIGNED: R. PANNEERSELVAM
DRAWN: J. SOSA
CHECKED: D. GILROY

PLOTTED: DECEMBER 7 2022

CDM Smith
10560 Arrowhead Drive, Suite 500
Fairfax, VA 22030
Tel: (703) 691-6500

FILENAME: 000-ESNT2.DWG PATH: C:\PW_PL11\SOSAJ1\02544232 PLOTTED BY: SOSAJ1