

OWNER DEPARTMENT OF PARKS AND RECREATION

PARK DEVELOPMENT DIVISION 2100 CLARENDON BOULEVARD, SUITE 414 ARLINGTON, VA 22201 PHONE: 703.228.3337 WWW.ARLINGTONVA.US

CONSTRUCTION DRAWINGS FOR: LUBBER RUN PEDESTRIAN BRIDGE PEDESTRIAN BRIDGE OVER LUBBER RUN - LUBBER RUN PARK PROJECT ITB#: 23-DPR-ITBPW-575

GENERAL NOTES:

GENERAL CONSTRUCTION NOTES

- ALL CONSTRUCTION WORK FOR THIS PROJECT SHALL CONFORM TO THE ARLINGTON COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES, CONSTRUCTION STANDARDS AND SPECIFICATIONS, 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.
- ALL CONSTRUCTION AND WORK ACTIVITIES SHALL COMPLY WITH THE VIRGINIA WORK AREA PROTECTION MANUAL AND ALL OTHER RELEVANT WORK SAFETY REQUIREMENTS, LATEST EDITIONS.
- THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE PROJECT OFFICER OF ANY DISCREPANCIES BETWEEN ACTUAL FIELD CONDITIONS AND THE APPROVED PLANS.
- THE CONTRACTOR SHALL CONTACT "MISS UTILITY" AT 811 FOR MARKING THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES (i.e. WATER, SEWER, GAS, TELEPHONE, ELECTRIC, AND CABLE TV) AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION OR CONSTRUCTION. THE CONTRACTOR IS REQUIRED TO IDENTIFY AND PROTECT ALL OTHER UTILITY LINES FOUND IN THE WORK SITE AREA BELONGING TO OTHER OWNERS THAT ARE NOT MEMBERS OF "MISS UTILITY". PRIVATE WATER, SEWER AND GAS LATERALS WILL NOT BE MARKED BY MISS UTILITY OR THE COUNTY. THE CONTRACTOR SHALL LOCATE AND PROTECT THESE SERVICES DURING CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR LAYING OUT THE WORK AND SHALL RETAIN A PROFESSIONAL LAND SURVEYOR LICENSED IN THE COMMONWEALTH OF VIRGINIA TO PROVIDE ALL NECESSARY CONSTRUCTION LAYOUTS AND ESTABLISH ALL CONTROL LINES, GRADES, AND 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.
- THE CONTRACTOR SHALL FULLY ACQUAINT HIMSELF WITH THE CONDITIONS OF THE SITE. THE CONTRACTOR SHALL THOROUGHLY EXAMINE AND BE FAMILIAR WITH THE DRAWINGS AND SPECIFICATIONS. SHOULD THE CONTRACTOR FIND ANY DISCREPANCIES, OMISSIONS, AMBIGUITIES, OR CONFLICTS IN OR AMONG THE CONTRACT DOCUMENTS OR BE IN DOUBT AS TO THEIR MEANING, HE SHALL BRING THESE ITEMS TO THE ATTENTION OF THE PROJECT OFFICER FOR DIRECTION BEFORE PROCEEDING WITH WORK. 2. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND BE RESPONSIBLE FOR ADHERENCE TO ALL ORDINANCES, REGULATIONS, LAWS AND CODES HAVING JURISDICTION OVER THE PROPERTY.
- 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.
- 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.
- 9. 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. 10. 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. 11. THE TRAIL ALONG THE NORTH SIDE OF THE BRIDGE MAY BE USED TO ACCESS THE NORTH ABUTMENT,
- BUT ONLY SMALL EQUIPMENT SUCH AS PICKUPS OR MINI EXCAVATORS WILL BE ALLOWED. NO HEAVY EQUIPMENT WILL BE PERMITTED TO CROSS THE EXISTING LOW WATER CROSSING (FORD).

STORMWATER AND ENVIRONMENTAL PROTECTION

12. 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

- 13. TREES SHALL BE PROTECTED PER THE REQUIREMENTS OF ARLINGTON PARKS & RECREATION STANDARD.
- 14. CONTRACTOR SHALL PREVENT TREE DAMAGE AS DIRECTED BY THE COUNTY WHEN HAULING EQUIPMENT AND MATERIALS TO AND FROM THE SITE.
- 15. CONTRACTOR IS ADVISED TO VISIT THE SITE PRIOR TO SUBMITTING A BID. THERE ARE NUMEROUS TREES WHICH WILL REMAIN. CONTRACTOR IS RESPONSIBLE FOR TREE PRESERVATION AND TREE SHALL BE CONTINUOUS THROUGHOUT CONSTRUCTION

TRAFFIC CONTROL

- ANY EXISTING, OR INSTALLING ANY NEW, TRAFFIC SIGNS, SIGNALS, OR OTHER TRAFFIC CONTROL DEVICES.
- 17. THE CONTRACTOR SHALL PREMARK THE LAYOUT OF ANY PERMANENT TRAFFIC CONTROL STRIPING, PERMANENT MARKINGS.
- 18. THE CONTRACTOR SHALL SUBMIT ANY REQUESTS FOR TEMPORARY "NO PARKING" RESTRICTIONS TO OR AS DIRECTED BY THE PROJECT OFFICER.
- 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.
- 20. THE CONTRACTOR SHALL PRESERVE ALL BUS STOPS, INCLUDING MAINTAINING ADEQUATE LEAST FOUR WEEKS ADVANCE NOTICE FOR COORDINATION WITH THE COUNTY'S BUS STOP COORDINATOR - 703-228-3049.
- 21. 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.

ENGINEER/CONSULTANT VOLKERT, INC.

6225 BRANDON AVENUE, SUITE 540 SPRINGFIELD, VA 22150 PHONE: 703.642.8100 FAX: 703.642.8106 WWW.VOLKERT.COM

CONTRACTOR TO BE DETERMINED



EXISTING TREES TO REMAIN AROUND THE PROJECT SITE. THE ACCESS ROUTE ALSO HAS EXTENSIVE PRUNING FOR ACCESS TO THE SITE. COORDINATION WITH COUNTY ARBORIST IN REGARDS TO TREE PROTECTION FOR ANY TREE TO REMAIN INSIDE THE LOD AND IN THE SURROUNDING AREA OF THE LOD

16. CONTRACTOR SHALL NOTIFY THE PROJECT OFFICER AT LEAST 3 WORKING DAYS PRIOR TO DISTURBING

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

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

19. WHEN THE APPROVED PLAN CALLS FOR THE REMOVAL OF ANY PARKING METER THE CONTRACTOR MUST

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 REOUIRE AT

WATER DISTRIBUTION, STORM AND SANITARY SEWER SYSTEMS

- 22. 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.
- 23. 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.
- 24. 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:

- 25. ALL EXISTING FIRE HYDRANTS AND FIRE DEPARTMENT CONNECTIONS SHALL BE MAINTAINED UNOBSTRUCTED AND ACCESSIBLE AT ALL TIMES IN ACCORDANCE WITH SECTIONS 508.5.4 AND 508.5.5 OF THE ARLINGTON COUNTY FIRE PREVENTION CODE.
- 26. ACCESS TO BUILDINGS FOR FIREFIGHTING SHALL BE MAINTAINED AT ALL TIMES. EXISTING FIRE APPARATUS ACCESS ROADS (FIRE LANES) SHALL BE KEPT CLEAR OF OBSTRUCTIONS IN ACCORDANCE WITH SECTION 503.4 OF THE ARLINGTON COUNTY FIRE PREVENTION CODE. ACCESS TO CONSTRUCTION SITES SHALL BE PROVIDED AND MAINTAINED IN ACCORDANCE WITH SECTION 1410 OF THE ARLINGTON COUNTY FIRE PREVENTION CODE.
- 27. 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.

SHEET LIST

SHEET NUMBER	SHEET TITLE
C000.1	COVER SHEET
C006.1	LEGEND
C011.1	EXISTING CONDITIONS
C021.1	DEMOLITION PLAN
C031.1	EROSION & SEDIMENT CONTROL PLAN
C032.1	EROSION & SEDIMENT CONTROL NARRATIVE

C032.2 EROSION & SEDIMENT CONTROL DETAILS

C032.3 SOIL MAP

C032.4 PRE-DEVELOPMENT MAP

C032.5 POST-DEVELOPMENT MAP

C032.6 VRRM

C032 C035 C035 C041 C09 C09 C12 **B00 B00 B00 B00 B00 B00 B00** SWM# 23-0005

ADT	
N/A	

STREET

POSTED

N/A

<section-header></section-header>	ARELINGTION ANAGEMENT SUPERVISOR ARELINGTON NOULEVARD, SUITE 813 ARELINGTON, NA 22201 PACILITIES & ENGINEERING DIVISION ENGINEERING BUREAU 2000 CLARENDON BOULEVARD, SUITE 813 ARLINGTON, VA 22201 PHONE: 703.228.3629 FA: 703.228.3629 FA: 703.228.3629 COPYRIGHT © 2022 ARLINGTON COUNTY VIRGINIA - ALL RIGHTS RESERVED SEAL BRIAN C. GRAHAM HG: NO. GRAHAM
GRAPHIC SCALE	
SHEET LISTNUMEER SHEET ITTLE2.7WATER QUALITY IMPACT ASSESSMENT5.1STORMWATER POLLUTION PREVENTION PLAN5.2STORMWATER POLLUTION PREVENTION PLAN5.2STORMWATER POLLUTION PREVENTION PLAN5.1PLAN & PROFILE1.1TREE INVENTORY AND TREE PROTECTION PLAN1.2TREE PLANTING DETAIL & TREE PROTECTION FENCE1.1MAINTENANCE OF TRAFFIC PLAN1.2BRIDGE ELEVATION AND ELEVATION1.3SUBSTRUCTURE LAYOUT AND RIPRAP DETAILS1.4ABUTMENT A AND B1.5ABUTMENT FOOTING PLAN AND DETAILS1.6REINFORCING STEEL SCHEDULE1.7ENGINEERING GEOLOGY	LUBBER RUN PEDESTRIAN BRIDGE LUBBER RUN PARK PEDESTRIAN BRIDGE OVER LUBBER RUN COVER SHEET
	23-DPR-ITBPW-575 DESIGNED: BD DRAWN: BD CHECKED: BCG PLOTTED: MARCH 7 2023 SCALE:
CLASSIFICATION	<u>AS SHOWN</u>
SPEED	C000.1

	LINETYP	
FEATURE	EXISTING	PROPOSED
BUILDING		
CENTERLINE / BASELINE		
COMMUNICATIONS CABLE	COM	СОМ СОМ
Contours - Major, Minor	— _ 250 — — _ 250 —	250
CRITICAL ROOT ZONE	CRZ CRZ	CRZ CRZ
EASEMENT		
ELECTRIC (UNDERGROUND)	UGE	UGE UGE
ENCE (MATERIAL NOTED)	— x—_ x—_ x—_ x—	—x—x—x—x—x—
-IBER OPTIC	FO	FO FO
GAS LINE	———— GAS ————	———— GAS ———— GAS ———
(" GAS LINE SIZE INCLUDED IF AVAILABLE)	— #" g — #" g — #" g —	
GUARDRAIL	. <u>0 0 0 0 0 0</u> 0.	. <u>0 0 0 0 0 0</u> 0
IARDSCAPE FEATURE MATERIAL NOTED)		
IMITS OF DISTURBANCE	LOD	
IMITS 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 UNDER 20"	SAN SAN	SAN SAN
STORM (SIZE NOTED)	— X — X — X — X —	— x—_ x—_ x—_ x—_
	STM STM	
	· · _	· · ·
	SL	—— SL —— SL ——
	UGT UGT	UGT
FREE LINE		
TREE PROTECTION FENCE	TP TP	TP TP
		×
VATERLINE UNDER 20" SIZE INCLUDED IF AVAILABLE)		

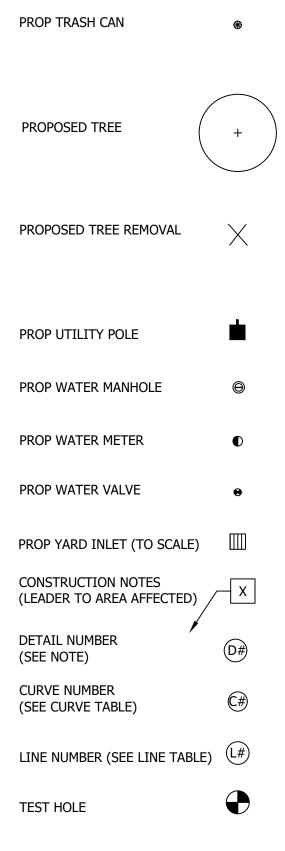
EXISTING FEATURE	
EX CABLE PEDESTAL	С
EX ELECTRIC BOX	E
EX FIRE HYDRANT	
EX GAS VALVE	•
EX GROUND LIGHT	•
EX GUY WIRES	\succ
EX IRON PIPE OR PIN	٠
EX LIGHT POLE	۲
EX MAILBOX	
EX MONUMENT	
EX PARKING METER	\bigcirc
EX PAY STATION	PS
EX SANITARY MANHOLE	0
EX STORM BASIN	\bigcirc
EX STORM MANHOLE	[]
EX TELEPHONE PEDESTAL	Τ
EX TRAFFIC CONTROL BOX	
EX TRAFFIC SIGN	-0-
EX TRASH CAN	*
EX TRAVERSE	
EX TREES, WOODED AREA	

EX UTILITY MANHOLE TYPE INDICATED ELEC, TELE, ETC	()
EX UTILITY POLE	iii -
EX WATER MANHOLE	θ
EX WATER METER	
EX WATER VALVE	\otimes
EX YARD INLET	
EX BENCHMARK	0
NORTH ARROW	N

SYMBOL LEGEND

PROPOSED FEATURE		EXISTING FEATUR
		EX STRIPING
		EX BUS STOP
PROP FIRE HYDRANT		
PROP GAS VALVE	Ø	
PROP LIGHT POLE	-\$-	EXISTING EXISTING SANITARY STRUCTURE NUMBER EXISTING STORM SEWER STRUCTURE NUMBER
		PROP MILL & OVERLAY SEE TYPICAL SECTION FOR PROP FULL DEPTH ASPHALT SEE TYPICAL SECTION FOR PROP CONCRETE
PROP PAY STATION	[PS]	REPLACE & MATCH EXISTIN OR LEADWALK. SEE CONSTI
PROP SANITARY MANHOLE	0	DEMOLITION AREA
(TO SCALE) PROP STORM MANHOLE	0	CRUSHER RUN AGGREGATE

.



PROP TRAFFIC SIGN

	<u>SYMBO</u>	L LEGEND	
EXISTING FEATURE		PROPOSED FEATURE	
EX STRIPING	(\underline{A})	PROP STRIPING	A
EX BUS STOP	\square	PROP BUS STOP	F
	LABEL	LEGEND	
EXISTING		PROPOSED	
ISTING SANITARY RUCTURE NUMBER		PROPOSED SANITARY SEWER STRUCTURE NUMBER	XXXX
ISTING STORM SEWER RUCTURE NUMBER	$\langle \bar{x} \bar{x} \bar{x} \bar{x} \rangle$	PROPOSED STORM SEWER STRUCTURE NUMBER	

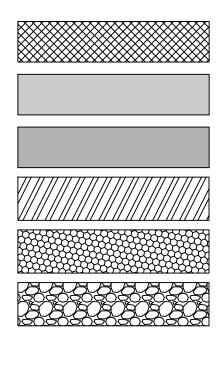
HATCH LEGEND

ROP MILL & OVERLAY EE TYPICAL SECTION FOR DETAILS

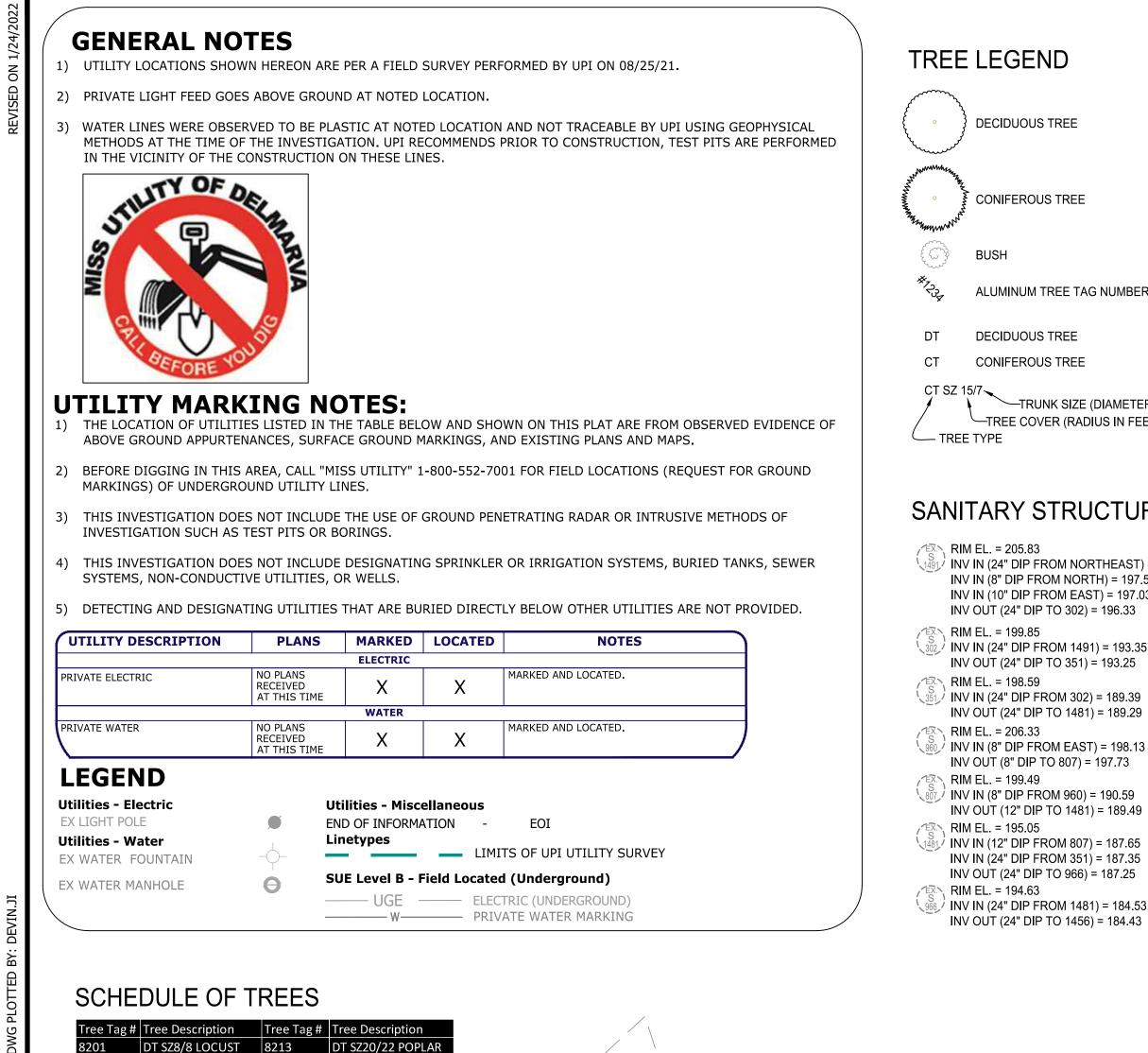
ROP FULL DEPTH ASPHALT EE TYPICAL SECTION FOR DETAILS

PLACE & MATCH EXISTING DRIVEWAY

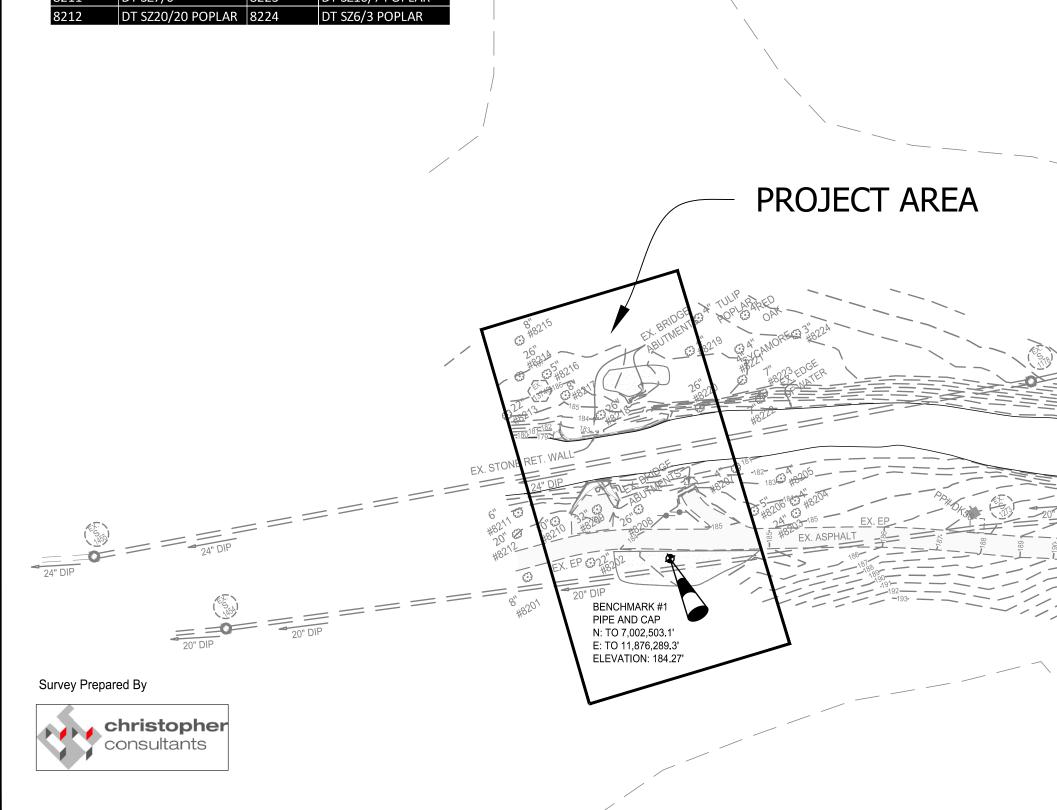
USHER RUN AGGREGATE NO. 25 OR 26



APPROVALS DATE DESIGN TEAM ENGINEER SUPERVISOR CONSTRUCTION MANAGEMENT SUPERVISOR WATER, SEWER, STREETS BUREAU CHIEF TRANSPORTATION DIRECTOR PROJECT MANAGER REVISIONS DATE BUILD B	ARLINGTON, VA 22201 COPYRIGHT © 2022 ARLINGTON COUNTY VIRGINIA - ALL RIGHTS RESERVED
WATER, SEWER, STREETS BUREAU CHIEF TRANSPORTATION DIRECTOR PROJECT MANAGER DATE	
PROJECT MANAGER REVISIONS DATE	· · ·
LUBBER RUN PEDESTRIAN BRIDGE LUBBER RUN PARK PEDESTRIAN BRIDGE OVER LUBBER RUN FEDESTRIAN BRIDGE OVER LUBBER RUN	
	LUBBER RUN PEDESTRIAN BRIDGE LUBBER RUN PARK PEDESTRIAN BRIDGE OVER LUBBER RUN PEDESTRIAN BRIDGE OVER LUBBER RUN
	23-DPR-ITBPW-575
23-DPR-ITBPW-575	DESIGNED: BD DRAWN: BD CHECKED: BCG PLOTTED: MARCH 7 2023
DESIGNED: BD DRAWN: BD CHECKED: BCG	SCALE:
DESIGNED: BD DRAWN: BD CHECKED: BCG PLOTTED: MARCH 7 2023	<u>N/A</u>



Tree Tag #	Tree Description	Tree Tag #	Tree Description
8201	DT SZ8/8 LOCUST	8213	DT SZ20/22 POPLAR
8202	DT SZ22/22 W.OAK	8214	DT/26" DEAD TREE
8203	DT SZ24/24 OAK	8215	DT SZ8/8 OAK
8204	DT SZ6/4	8216	DT SZ8/5
8205	DT SZ10/4X2	8217	DT SZ12/8
8206	DT SZ10/5	8218	DT SZ24/26 POPLAR
8207	DT SZ6/3.5	8219	DT SZ6/4
8208	DT SZ24/26 W.OAK	8220	DT SZ24/26 OAK
8209	DT SZ32/32 OAK	8221	DT SZ6/4
8210	DT SZ14/10	8222	DT SZ10/7 POPLAR
8211	DT SZ7/6	8223	DT SZ10/7 POPLAR
8212	DT SZ20/20 POPLAR	8224	DT SZ6/3 POPLAR



CONIFEROUS TREE

ALUMINUM TREE TAG NUMBER

TRUNK SIZE (DIAMETER IN INCHES) TREE COVER (RADIUS IN FEET)

SANITARY STRUCTURE DATA

- 491/ INV IN (24" DIP FROM NORTHEAST) = 196.43 INV IN (8" DIP FROM NORTH) = 197 53 INV IN (10" DIP FROM EAST) = 197.03 INV OUT (24" DIP TO 302) = 196.33
- 2, INV IN (24" DIP FROM 1491) = 193.35
- INV OUT (24" DIP TO 351) = 193.25
- / INV IN (24" DIP FROM 302) = 189.39 INV OUT (24" DIP TO 1481) = 189.29
- 🕺 INV IN (8" DIP FROM EAST) = 198.13 INV OUT (8" DIP TO 807) = 197.73
- / INV IN (8" DIP FROM 960) = 190.59
- INV OUT (12" DIP TO 1481) = 189.49
- 187.65 INV IN (12" DIP FROM 807) = 187.65 INV IN (24" DIP FROM 351) = 187.35 INV OUT (24" DIP TO 966) = 187.25
- (966, INV IN (24" DIP FROM 1481) = 184.53

RIM EL. = 197.28 ^S₄₅₆, INV IN (24" DIP FROM 966) = 180.68 INV OUT (24" DIP TO 1178) = 180.58

LEGEND

STORM MANHOLE

STORM CULVERT

WATER METER

UTILITY POLE

WATER MANHOLE

ASPHALT AREA

CONCRETE AREA

BRICK AREA

GRAVEL AREA

SANITARY MANHOLE

Utilities - Storm

Utilities - Sanitary

S

Utilities - Water

Utilities - Electric

Surfaces

D

- 😥 RIM EL. = 190.78 178/ INV IN (24" DIP FROM 1456) = 175.98
- INV OUT (24" DIP TO 1455) = 175.88 RIM EL. = 180.26
- 55^ジ INV IN (24" DIP FROM 1178) = 170.16 INV OUT (24" DIP TO SOUTHWEST) = 170.06
- RIM EL. = 204.00 INV IN (8" DIP FROM SOUTHEAST) = 194.40
- INV OUT (8" DIP TO 990) = 194.20 RIM EL. = 191.60
- 185.30 INV IN (8" DIP FROM 1471) = 185.30 INV OUT (20" DIP TO 1273) = 183.80
- 😥 RIM EL. = 187.97 273, INV IN (20" DIP FROM 990) = 180.97
- INV OUT (20" DIP TO 1454) = 180.87 😥 RIM EL. = 182.80
- 1454 INV IN (20" DIP FROM 1273) = 175.00 INV OUT (20" DIP TO SOUTHWEST) = 174.90

SPOT ELEVATION SIGN HANDICAP PARKING FLOW DIRECTION

Misc. Structures

-0-

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Abbreviations

EX.

EP

RCP

PVC

CPP

Linetypes

DIP

CONC.

EXISTING CONCRETE EDGE OF PAVEMENT REINFORCED CONCRETE PIPE DUCTILE IRON PIPE POLYVINYL CHLORIDE PIPE CORRUGATED PLASTIC PIPE

	INDEX CONTOUR (10')
	INT. CONTOUR (2')
OHU	OVERHEAD UTILITY WIRE
	SANITARY PIPE
	STORM PIPE
· · · · · · ·	EDGE OF WATER

STORM STRUCTURE DATA

CÊX, NIM EL. = 204.97 (⁹⁴¹」 INV IN (18" CPP FROM EAST) = 201.27

INV OUT (18" CPP TO 961) = 197.27

rex rexL⁹⁶¹JL⁹⁶²J INV (18" CPP FROM 941) = 191.60

 $\begin{bmatrix} \widehat{EX} \\ 714 \end{bmatrix}$ INV (BLOCKED 12" RCP) = 195.33

 $\begin{bmatrix} \widehat{EX} \\ 750 \end{bmatrix}$ INV (12" CMP FROM EAST) = 195.49

 $\begin{bmatrix} EX.\\ 751 \end{bmatrix}$ INV (10" PVC FROM WEST = 197.26

FLOOD ZONE NOTE

THE AREA SHOWN HEREON IS LOCATED ON THE FLOOD INSURANCE RATE MAP (FIRM), NO. 51013C0076C, WITH AN EFFECTIVE DATE OF AUGUST 19, 2013.

BY GRAPHICAL DEPICTION ONLY, THE PROPERTY SHOWN HEREON IS SHOWN IN:

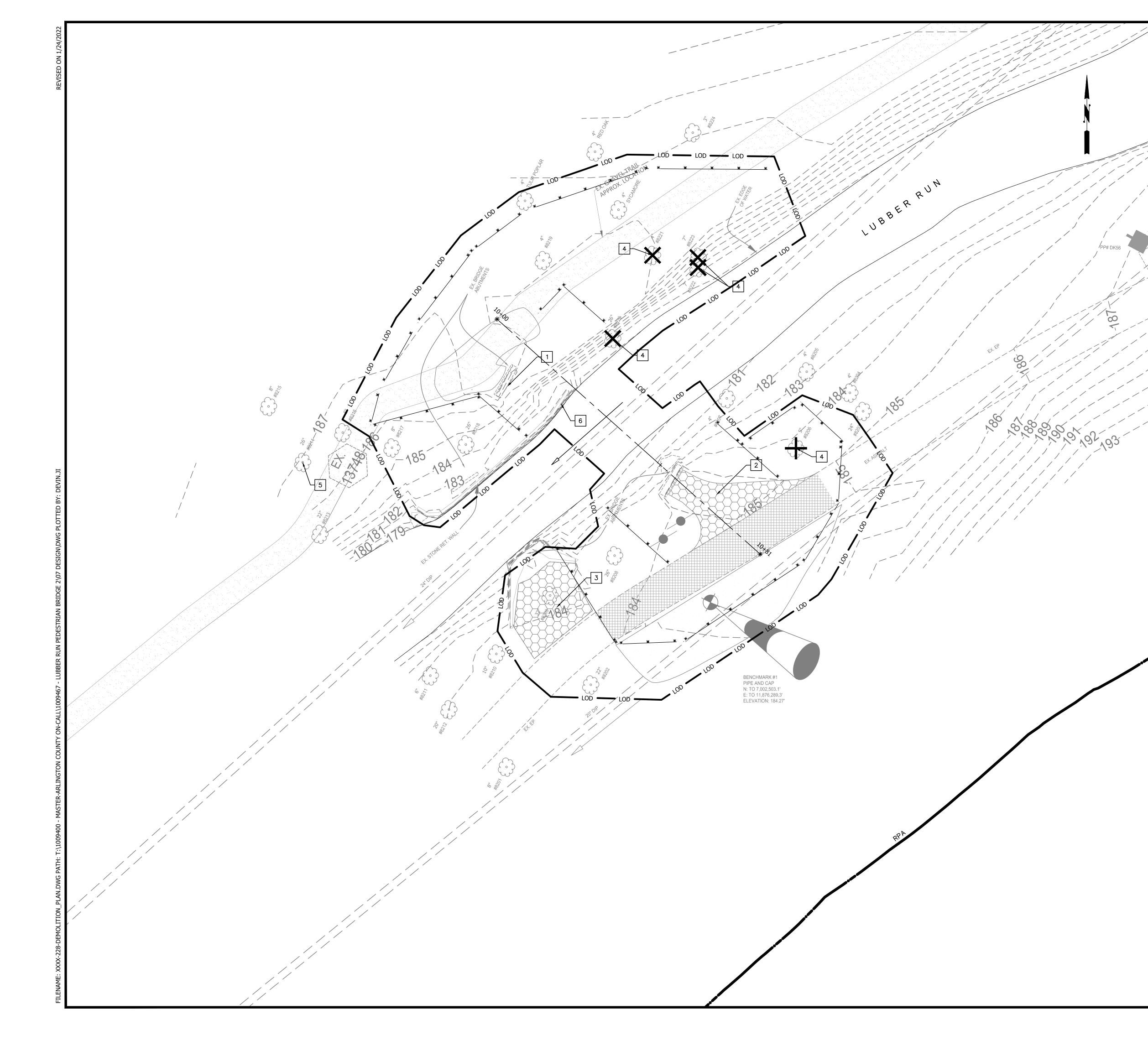
- FLOOD ZONE "AE" (SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD), BASE FLOOD ELEVATIONS DETERMINED.
- FLOOD ZONE "X" (OTHER AREAS), AREAS DETERMINED TO BE OUTSIDE THE 500-YEAR FLOODPLAIN.

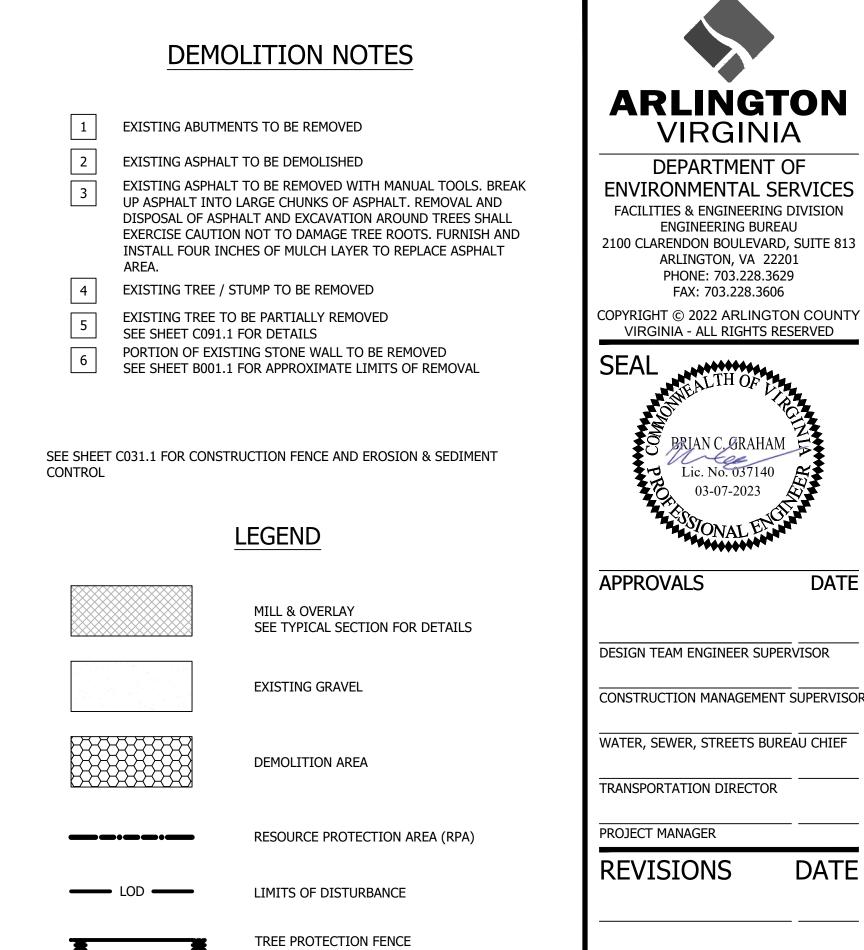
A FIELD SURVEY WAS NOT PERFORMED TO DETERMINE THE FLOOD ZONES LISTED HEREON. AN ELEVATION CERTIFICATE MAY BE NEEDED TO VERIFY THIS DETERMINATION OR APPLY FOR A VARIANCE FROM THE FEDERAL EMERGENCY MANAGEMENT AGENCY.

The second secon	<image/> <section-header><section-header><text><text><text><text><text></text></text></text></text></text></section-header></section-header>
TO COMMUNITY CHIER AND	APPROVALS DATE DESIGN TEAM ENGINEER SUPERVISOR CONSTRUCTION MANAGEMENT SUPERVISOR WATER, SEWER, STREETS BUREAU CHIEF TRANSPORTATION DIRECTOR PROJECT MANAGER REVISIONS DATE Image: Im
CENERAL NOTES 1. THE PROPERTY SHOWN HEREON IS IDENTIFIED ON THE ARLINGTON COUNTY, VIRGINIA GEOGRAPHIC INFORMATION SYSTEM AS IRC ² 13-046-007 AND IS ZONED S-3A. 2. THE PROPERTY SHOWN HEREON IS INOW IN THE NAME OF COUNTY BOARD OF ARLINGTON, RECORDED IN MAP BOOK 062 AT PAGE 8, AMONG THE LAND RECORDS OF ARLINGTON COUNTY, VIRGINIA. 3. A) HORIZONTAL DATUM SHOWN HEREON IS REFERENCED TO THE VIRGINIA COORDINATE SYSTEM (VCS) 1983 - NORTH AS ESTABLISHED FROM A CURRENT GPS SURVEY.	LUBBER RUN PERTAN BRIDGE LUBBER RUN PARK PEDESTRIAN BRIDGE OVER LUBBER RUN EXISTING CONDITIONS
 B.) THE VERTICAL DATUM SHOWN HEREON IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) GEIOD-18 AS ESTABLISHED FROM A CURRENT GPS SURVEY. 4. NO TITLE REPORT FURNISHED. ALL UNDERLYING TITLE LINES, EASEMENTS, SERVITUDES AND OTHER MATTERS OF TITLE MAY NOT BE SHOWN HEREON. THIS DOCUMENT DOES NOT REPRESENT A CURRENT BOUNDARY SURVEY. 5. THE PHYSICAL IMPROVEMENTS AND TOPOGRAPHY SHOWN HEREON ARE BASED UPON A FIELD SURVEY 	23-DPR-ITBPW-575 DESIGNED: BD DRAWN: BD CHECKED: BCG
 CONDUCTED BY THIS FIRM BETWEEN THE DATES OF FEBRUARY 10th AND FEBRUARY 26th, 2021, AND UPDATED BETWEEN THE DATES OF AUGUST 16th AND AUGUST 25th, 2021. NO GEOTECHNICAL, SUBSURFACE, FIELD REVIEWS, RESEARCH, AGENCY OR GOVERNMENTAL RECORD REVIEWS, OR OTHER INVESTIGATIONS HAVE BEEN MADE FOR THE PURPOSE OF LOCATING, OR DETERMINING THE EXISTENCE OF HAZARDOUS MATERIALS, OR OTHER ENVIRONMENTAL CONCERNS ON SITE IN THE PERFORMANCE OF CHRISTOPHER CONSULTANTS, LTD SERVICES FOR THE PROJECT AS SHOWN HEREON. NO CERTIFICATION HAS BEEN MADE AS TO THE LOCATIONS OF UNDERGROUND UTILITIES SUCH AS, BUT NOT LIMITED TO ELECTRIC, GAS, TELEPHONE, CATV, WATER, SANITARY AND STORM SEWERS. DURING THE PROCESS OF OUR PHYSICAL SURVEY NO INDICATIONS OF A CEMETERY WERE FOUND. NO FURTHER INSPECTION OF THIS PROPERTY HAS BEEN MADE FOR POSSIBLE CEMETERIES. 	PLOTTED: MARCH 7 2023 SCALE: 0 40 80 GRAPHIC SCALE

LUBBER RUN PEDESTRIAN BRIDGE

C011.1



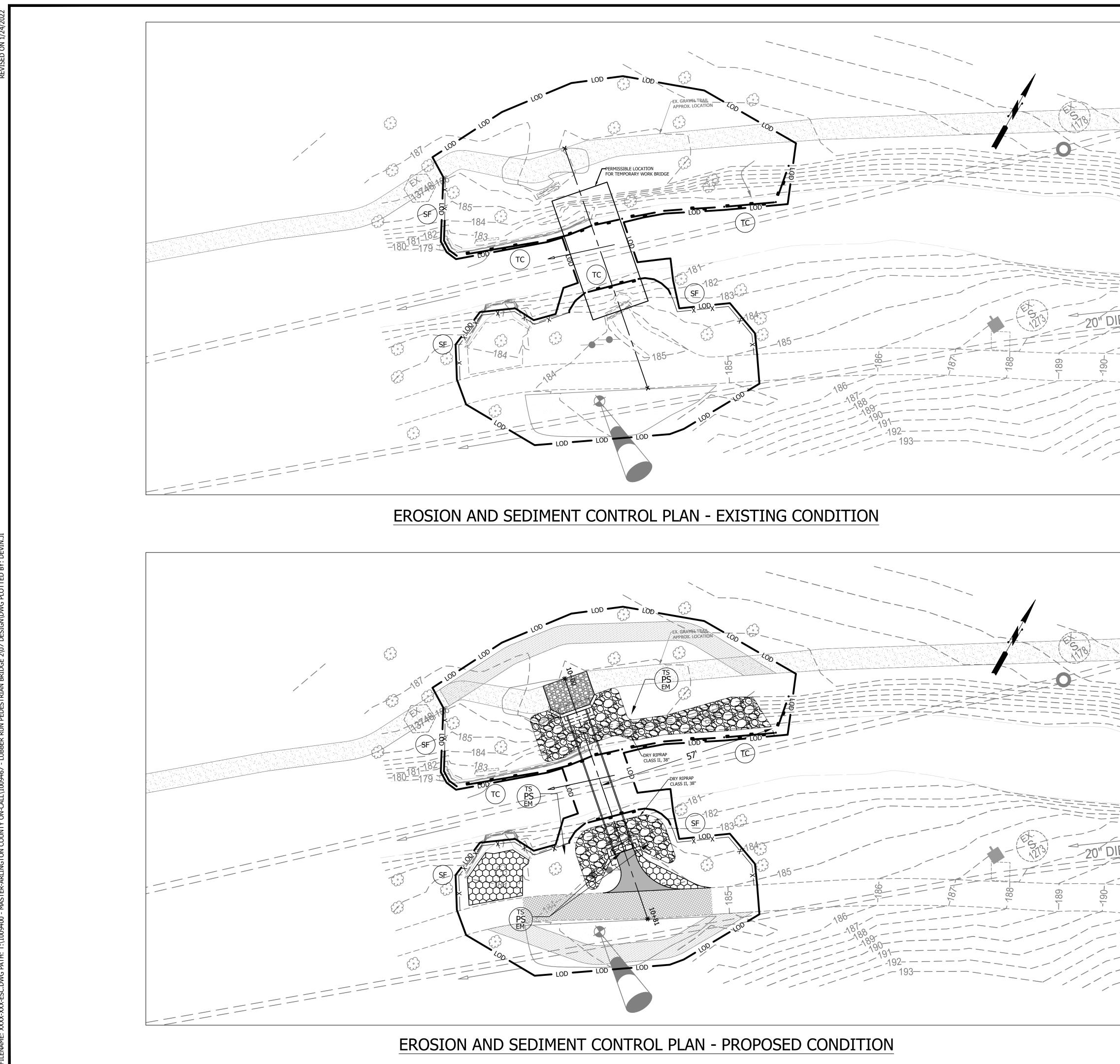


NOTES

- 1. THE ENTIRETY OF THE PROJECT OCCURS WITHIN THE RPA.
- 2. SEE MAINTENANCE OF TRAFFIC PLAN FOR C121.1 AND TREE INVENTORY / TREE PROTECTION PLAN C091.1 FOR ADDITIONAL INSTRUCTION ON DEMOLITION AND PRESERVATION OF EXISTING CONDITIONS DURING CONSTRUCTION.

	, STREETS ON DIREC GER	DATE
SIDGE	RUN	
LUBBER RUN PEDESTRIAN BRIDG LUBBER RUN PARK	PEDESTRIAN BRIDGE OVER LUBBER RUN	DEMOLITION PLAN
23-DPR-ITBPW- DESIGNED: BI DRAWN: BI CHECKED: BO PLOTTED: MARC)))G	
SCALE:	10	20 SCALE
		C021.1

DATE



EROSION AND SEDIMENT CONTROL LEGEND TEMPORARY SILT SF 3.05 —X——X— FENCE 3.30 TS PS EM TOPSOIL 3.32 3.36 PERMANENT SEEDING EC MATTING LIMITS OF - LOD -DISTURBANCE TC 3.27 TURBIDITY CURTAIN PROPOSED FULL DEPTH ASPHALT PROPOSED REMOVAL OF EX. PAVEMENT PROPOSED MILL & OVERLAY CRUSHER RUN AGGREGATE NO. 25 OR 26 PROP RIPRAP EXISTING GRAVEL **TEMPORARY 4 INCH MULCH**

LAYER FOR 6' PATH (SEE ARLINGTON CO. STANDARD 311300.9NS)

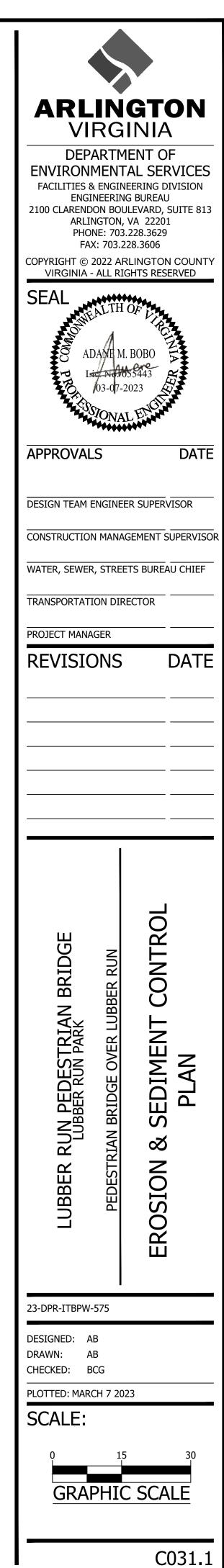
NOTES

- 1. CONTRACTOR TO APPLY TOPSOIL AND MULCH TO AREAS NOT STABILIZED BY CONCRETE, ASPHALT, OR RIP RAP. EROSION CONTROL MATTING SHALL BE USED TO PROTECT THE TOPSOIL AND MULCH FROM EROSION.
- 2. ALL PROPOSED WORK FOR THIS PROJECT IS OCCURRING WITHIN THE LIMITS OF THE RPA.
- 3. FOR RIPRAP DETAILS, SEE SHEETS B001.1 AND B001.3
- 4. SEE SHEET C121.1 FOR TEMPORARY TRAIL LOCATIONS.
- 5. TRENCHLESS SILT FENCE MAY BE REQUIRED IN LOCATIONS DETERMINED BY THE COUNTY ARBORISTS. FOR TRENCHLESS SILT FENCE DETAILS, SEE SHEET C032.2. TRENCHLESS SILT FENCE SHALL BE INCLUDED IN THE PRICE BID FOR SILT FENCE, WITH WIRE SUPPORT AND WILL BE MEASURED PER LF.
- COFFERDAMS TO FACILITATE DEWATERING SHALL BE CONSTRUCTED WITH: THE LIMITS OF THE TURBIDITY CURTAINS. COFFERDAMS SHALL BE CONSTRUCTED WITH NON-ERODIBLE MATERIAL AND BE REMOVED WHEN NO LONGER NEEDED.
- 7. AREAS USED FOR CONSTRUCTION STAGING AND TEMPORARY PEDESTRIAN ACCESS SHALL BE RETURNED BACK TO THE ORIGINAL CONDITION AFTER THE CONSTRUCTION IS COMPLETED.

TEMPORARY WORK BRIDGE:

THE CONTRACTOR MAY CONSTRUCT A TEMPORARY WORK BRIDGE TO ACCESS EACH SIDE OF STREAM. THE TEMPORARY WORK BRIDGE SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER HOLDING A VALID LICENSE TO PRACTICE ENGINEERING IN THE COMMONWEALTH OF VIRGINIA. WORKING DRAWINGS OF THE WORK BRIDGE SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW 14 DAYS PRIOR TO INSTALLATION OF THE WORK BRIDGE. THE DRAWINGS SHALL INCLUDE PLAN AND PROFILE VIEW, AND DETAILS OF ALL STRUCTURAL MEMBERS AS DETERMINED BY THE CONTRACTOR AND HIS ENGINEER. THE CONTRACTOR SHALL DETERMINE THE METHODS AND MEANS OF SUPPORT REQUIRED FOR THE LOADS IMPOSED BY CONSTRUCTION EQUIPMENT DURING THE CONSTRUCTION OF THE PROJECT.

THE LOCATION OF THE TEMPORARY WORK BRIDGE SHALL BE WITHIN THE LIMITS OF WORK SHOWN ON THE PLANS. THE CONTRACTOR SHALL USE A MATERIAL AND DESIGN FOR THE TEMPORARY WORK BRIDGE THAT DOES NOT IMPACT THE STREAM. ALL SUPPORTS SHALL BE OUTSIDE OF ORDINARY HIGH WATER. WORK BRIDGE MATERIALS AND SUPPORT STRUCTURES SHALL BE NON-ERODIBLE MATERIAL. EQUIPMENT SHALL NOT BE ALLOWED TO ENTER THE WATER TO CONSTRUCT THE WORK BRIDGE.



EROSION AND SEDIMENT CONTROL NARRATIVE

PROJECT DESCRIPTION:

THE LUBBER RUN PEDESTRIAN BRIDGE PROJECT WILL CONSIST OF REPLACING THE PEDESTRIAN BRIDGE THAT PREVIOUSLY CROSSED LUBBER RUN. THE PROPOSED BRIDGE WILL BE A SINGLE SPAN PREFABRICATED PEDESTRIAN BRIDGE 6 FT WIDE AND APPROXIMATELY 47 FT LONG. THE PROPOSED BRIDGE WILL BE PLACED IN THE SAME LOCATION AS THE PREVIOUS BRIDGE, WHICH WILL ENABLE STREAM CROSSING AND TRAIL CONNECTION BETWEEN THE EASTERN AND WESTERN PARTS OF LUBBER RUN TRAIL. THE TOTAL PROJECT WORK AREA SUBJECT TO LAND DISTURBING ACTIVITY IS 8,633 SF (0.20 AC). PROJECT WORK INCLUDES:

 FULL DEPTH ASPHALT PAVEMENT INSTALLING OF PROPOSED BRIDGE

EXISTING SITE CONDITIONS:

THE PROJECT IS LOCATED AROUND A PARK AREA WHERE IT IS ADJACENT TO LUBBER RUN. THE SITE IS LOCATED WITHIN THE MIDDLE POTOMAC-ANACOSTIA-OCCOQUAN WATERSHED WITH THE 8 DIGIT HYDROLOGIC UNIT CODE (HUC) OF 02070010 AND IT HAS HYDROLOGY SOIL GROUP B. THE SOIL TYPE IS "GLENELG-MANOR COMPLEX."

ADJACENT PROPERTIES:

THERE IS A LUBBER RUN TRAIL THAT IS PARALLEL TO THE LUBBER RUN CHANNEL. WHERE ADJACENT AREAS ARE AT A LOWER ELEVATION, SILT FENCE IS PROPOSED TO BE USED AS A PERIMETER CONTROL.

OFF-SITE AREAS:

A MINIMAL AMOUNT OF OFFSITE BORROW MAY BE REQUIRED FOR TOPSOIL IN PROJECT SITE. THE LOCATION AND ENSURING MAINTENANCE OF THE BORROW AREAS IS THE CONTRACTOR'S RESPONSIBILITY.

CRITICAL AREAS:

DISTURBED AREAS SHALL BE MONITORED ROUTINELY FOR SIGNS OF EROSION, AND TEMPORARY STABILIZATION SHALL BE PUT IN PLACE AS NEEDED PERIMETER CONTROLS SHALL BE MONITORED FREQUENTLY AND CLEARED AS NEEDED. THE PROJECT AREA IS HIGHLY DEVELOPED AND WELL GRADED AND THE PROPOSED IMPROVEMENT WILL SLIGHTLY INCREASE THE EXISTING IMPERVIOUS FOOT PRINT. THE PROPOSED WORK LOCATED NEAR OR IN THE STREAM CONSISTS OF ABUTMENT CONSTRUCTION, SUPERSTRUCTURE CONSTRUCTION, PLACEMENT OF RIP RAP FOR SLOPE PROTECTION, AND CONSTRUCTION OF THE ACCESS ROAD. TURBIDITY CURTAIN AND SILT FENCE ARE PROPOSED FOR STREAM PROTECTION AND ARE TO BE POSITIONED TO ENSURE THE STREAM IS WELL PROTECTED FROM LAND DISTURBING ACTIVITIES. EROSION CONTROL MATTING CONSISTING OF NATURAL FIBERS (PLASTIC-FREE) SHALL BE INSTALLED ON STREAM BANKS.

EROSION AND SEDIMENT CONTROL MEASURES:

THE EROSION AND SEDIMENT CONTROL MEASURES FOR THIS PROJECT AREA SHALL INCLUDE PERIMETER CONTROLS SUCH AS SILT FENCE TO PREVENT SILTY WATER FROM LEAVING THE SITE AND STABILIZATION WITH SOD, MULCH, OR SEEDING AND STRAW OR HAY. FOR SPECIFICS REGARDING INSTALLATION, MAINTENANCE, INSPECTION, AND REMOVAL, REFER TO OTHER SECTIONS OF THIS NARRATIVE AND THE PLANS.

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= 8,633 SF (0.20 ACRES)

INCREASE IMPERVIOUS AREA..... = 70 SF (0.002 ACRES)

GLENELG-MANOR COMPLEX B

SOILS INFORMATION:

THE FOLLOWING SOILS ARE FOUND ON SITE (SEE SOILS MAP ON SHEET C032.3 FOR LOCATION)

SOIL#:	SOIL NAME:	HYDROLOGIC GROUP:	EROD

FLOODPLAIN AND RESOURCE PROTECTION AREA (RPA):

THERE ARE FLOODPLAIN AND RESOURCE PROTECTION AREAS LOCATED WITHIN THIS PROJECT SITE.

EROSION & SEDIMENT CONTROL PROJECT PHASING

1. EXISTING CONDITION:

6D

- a. PRE-CONSTRUCTION MEETING WITH THE PROJECT OFFICER, CONTRACTOR, AND COUNTY INSPECTOR. b. PERFORM INITIAL PERIMETER CLEARING TO INSTALL REMAINDER OF PERIMETER CONTROLS SUCH AS SILT FENCE (SF) PER THE PHASE I PLAN.
- c. SEED AND MULCH ALL EARTHEN CONTROLS
- 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.

N/A

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

2. PROPOSED CONDITION:

- a. INSTALL TEMPORARY WORK BRIDGE IN ACCORDANCE WITH THE NOTES ON SHEET B001.1. WORK BRIDGE SHALL BE INSTALLED WITHIN THE LIMITS OF DISTURBANCE AND ALL SUPPORTS SHALL BE LOCATED OUTSIDE OF THE STREAM. TEMPORARY WORK BRIDGE SHALL BE CONSTRUCTED WITH NON-ERODIBLE MATERIAL.
- b. BEGIN CONSTRUCTION OF THE PROPOSED BRIDGE AND SITE GRADING
- 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 TURBIDITY CURTAIN PRIOR TO ENTERING MAJOR STORM SEWER SYSTEMS.

EROSION AND SEDIMENT CONTROL MEASURES

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

1. STRUCTURAL PRACTICES

- a. SILT FENCE VESCH 3.05
- a.a. SILT FENCE WILL BE INSTALLED WITH THE E&S PLAN TO FILTER RUNOFF FROM DISTURBED AREAS. RUNOFF SHALL NOT BE DIRECTED PARALLEL TO THE INSTALLATION OF SILT FENCE.
- a.b. SILT FENCES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY. a.c. CLOSE ATTENTION SHALL BE PAID TO THE REPAIR OF DAMAGED SILT FENCE RESULTING FROM UNDERCUTTING.
- a.d. SHOULD THE FABRIC ON A SILT FENCE DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE, THE FABRIC SHALL BE REPLACED IMMEDIATELY.
- a.e. SEDIMENT DEPOSITS SHALL BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.
- a.f. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE, THEN PREPARED AND SEEDED.

b. TURBIDITY CURTAIN VESCH 3.27

- b.a. TURBIDITY CURTAIN WILL BE INSTALLED WITH THE E&S PLAN TO PROVIDE SEDIMENTATION PROTECTION FOR A WATERCOURSE FROM UP-SLOPE LAND DISTURBANCE OR FROM DREDGING OR FILLING WITHIN THE WATERCOURSE.
- b.b. SHOULD REPAIRS TO THE GEOTEXTILE FABRIC BECOME NECESSARY, MANUFACTURER'S INSTRUCTIONS MUST BE FOLLOWED TO ENSURE THE ADEQUACY OF THE REPAIR.
- b.c. WHEN THE CURTAIN IS NO LONGER REQUIRED AS DETERMINED BY THE INSPECTOR, THE CURTAIN AND RELATED COMPONENTS SHALL BE REMOVED IN SUCH A MANNER AS TO MINIMIZE TURBIDITY.

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

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.

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.

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.

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 RESOURCE PROTECTED AREA (RPA), A NATIVE SEED MIX SPECIFIED IN THE TABLE SHOWN AT THE END THIS SHEET 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 AND PROJECT OFFICER 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), TURBIDITY CURTAIN (TC), 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

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.

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.

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

- LEVEL REACHES ONE-HALF THE HEIGHT OF THE FENCING
- CONSTRUCTION SITE.
- 2. EXPOSED SLOPES AND SOIL
- PROPERLY SECURED/ANCHORED.

3. STOCKPILES

- 4. INLET PROTECTION RUNOFF DURING SIGNIFICANT STORM EVENTS.
- 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:

- NETWORK.
- THE STORM SEWER SYSTEM OR STATE WATERS.

MAINTENANCE PROGRAM:

- THE APPROVAL OF THE COUNTY INSPECTOR.

ARLINGTON COUNTY - RESOURCE PROTECTION AREA NATIVE SEED MIX:

Percent of Mix (%)
20
30
25
15
5
2
1
1
1

Apply at 50 lbs/acre (2 lb/1000 sf) between August 15th and May 15th.

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

d. HAY BALES OR A STONE BERM SHALL BE PLACED ACROSS THE CONSTRUCTION ENTRANCE TO PREVENT SEDIMENT FROM LEAVING THE

a. EXPOSED SLOPES NOT AT THE FINAL STABILIZATION PHASE SHALL BE COVERED WITH EROSION CONTROL MATTING THAT SHALL BE MADE OF NATURAL FIBERS (PLASTIC-FREE). EROSION CONTROL MATTING SHALL BE INSTALLED ON STREAM BANKS. COVERING MATERIAL SHALL BE

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.

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).

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

IN ADDITION TO THESE PRE-STORM ACTIONS, ALL EROSION AND SEDIMENT CONTROL (ESC) MEASURES MUST BE CHECKED DAILY AND AFTER EACH

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

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 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.

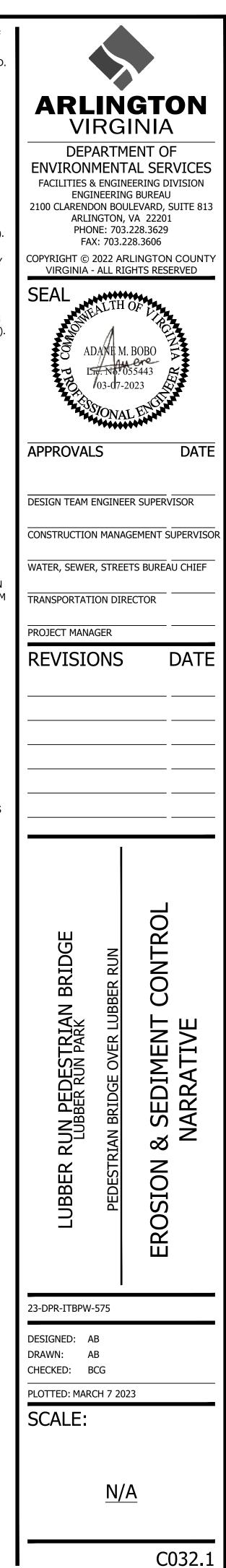
2. ALL SEDIMENT TRAPPING DEVICES SHALL BE CLEARED OUT AT 50% TRAP CAPACITY AND THE SEDIMENT SHALL BE DISPOSED OF BY SPREADING ON THE SITE OR IF NOT SUITABLE FOR FILL, HAULING AWAY AND DEPOSITING AT AN ACCEPTABLE DUMP SITE.

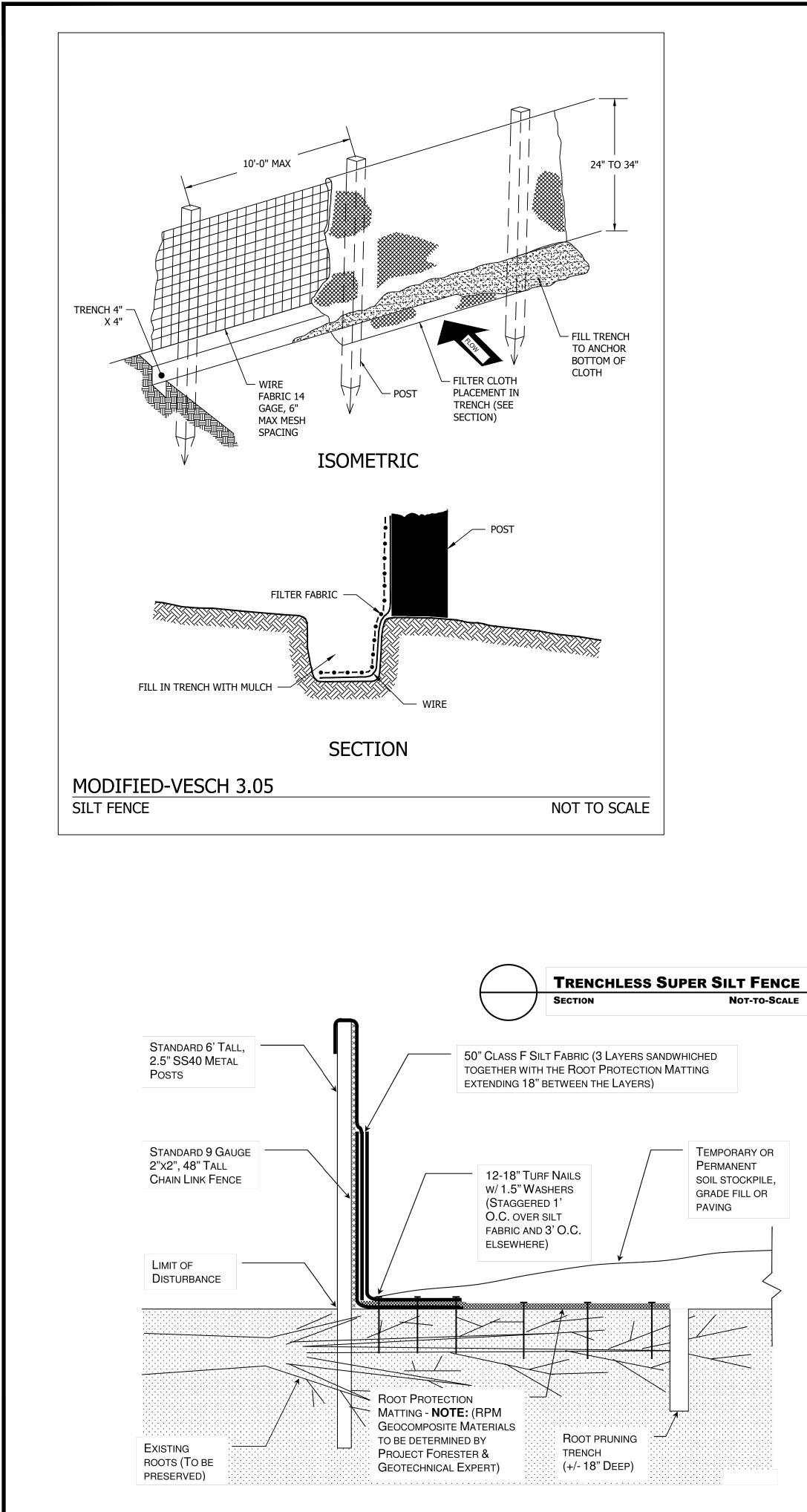
3. THE CONTRACTOR SHALL TAKE SPECIAL CARE TO PREVENT MUD AND/OR OTHER DEBRIS FROM BEING ENTERED ONTO EXISTING SWM/BMP FACILITIES OR DOWNSTREAM WATER WAYS. SHOULD OFF-SITE AREAS BECOME POLLUTED BY CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING THE AFFECTED AREAS TO THE SATISFACTION OF THE INSPECTOR.

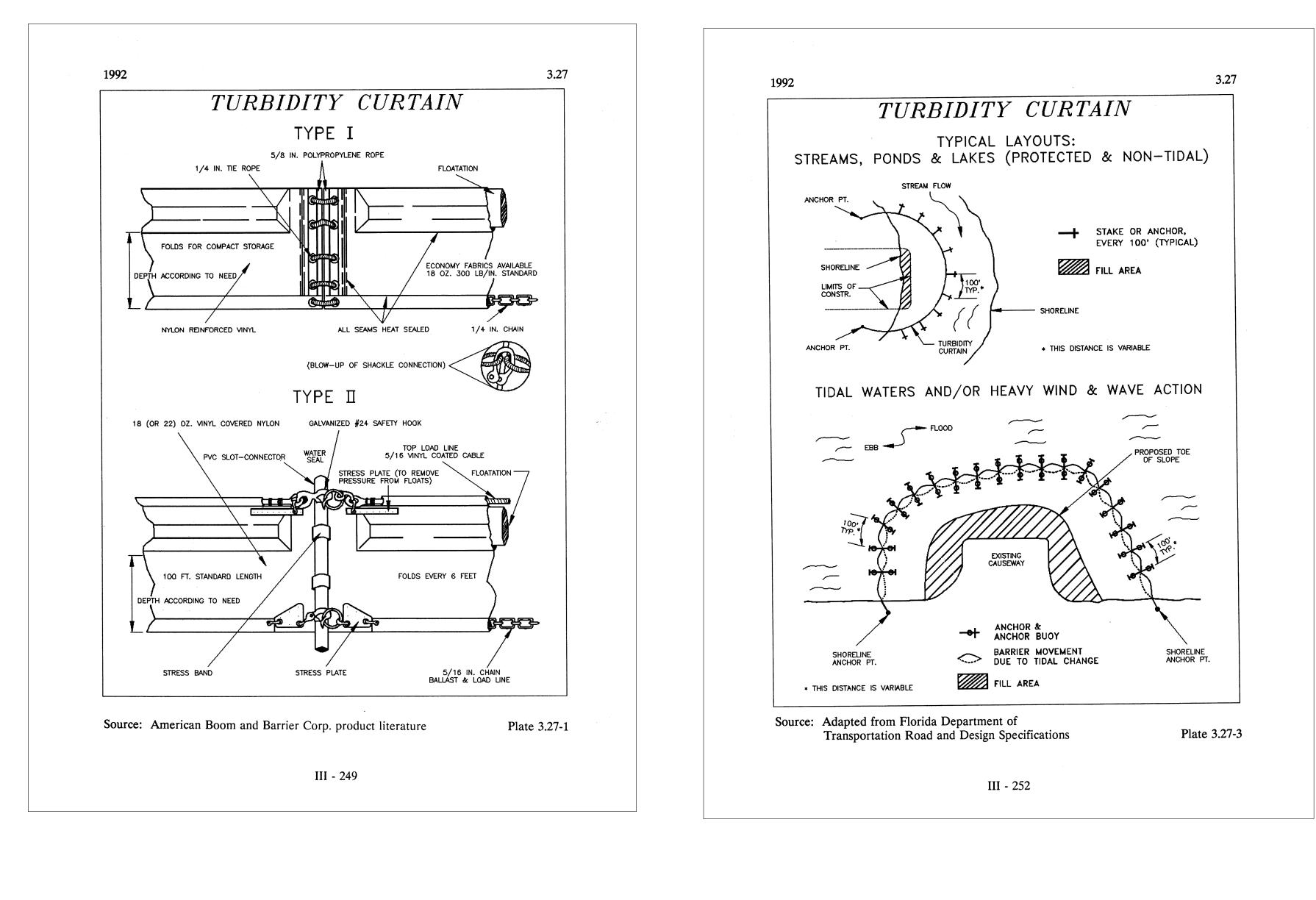
4. AT THE COMPLETION OF CONSTRUCTION AND PRIOR TO BOND RELEASE, ALL TEMPORARY SEDIMENT CONTROLS SHALL BE REMOVED AND ANY REMAINING DENUDED AREAS SHALL BE STABILIZED. CERTAIN DEVICES MAY BE REMOVED PRIOR TO CONSTRUCTION COMPLETION BUT ONLY WITH

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.

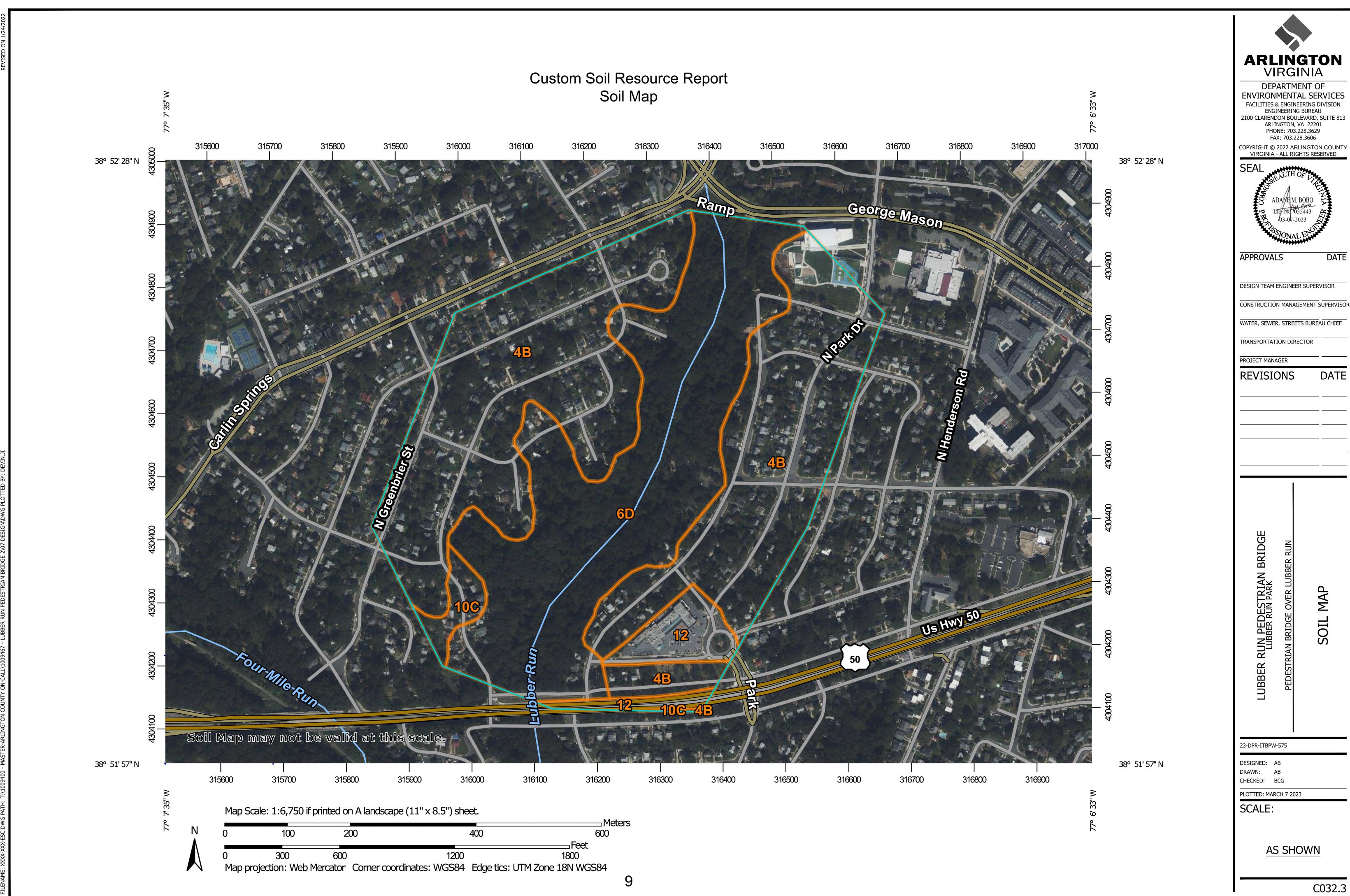
)	Latin Name	Common Name	
-	Lolium multiflorum	Annual rye	
	Elymus virginicus	Virginia wild rye	
	Panicum clandestinum	Deer-tongue grass	
	Elymus riparius	Riverbank wild rye	
	Elymus hystrix	Bottlebrush grass	
	Chamaecrista fasciculata	Partridge pea	
	Solidago rugosa	Rough-stemmed goldenrod	
	Asclepias syriaca	Common milkweed	
	Euthamia graminifolia	Grass-leaved goldenrod	

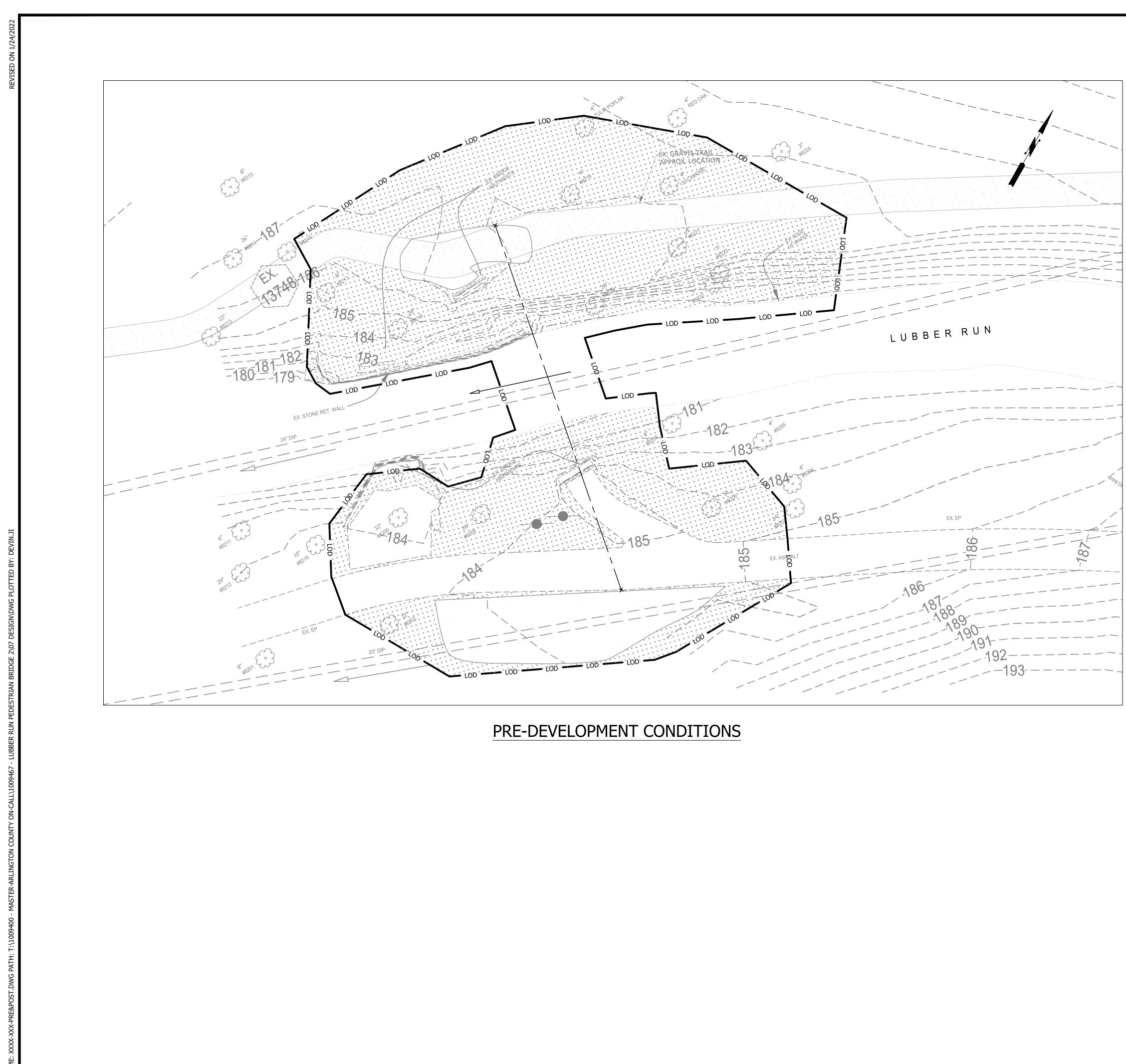






ARLII Vir	NGTO GINIA	DN
ENVIRONME FACILITIES & EN ENGINEE 2100 CLARENDON ARLINGT PHONE:	GINEERING DIN RING BUREAU	VICES /ISION
COPYRIGHT © 2022 VIRGINIA - ALL		
	TH OF M. BOBO 0. 055443 07-2023	
APPROVALS		DATE
DESIGN TEAM ENG	NEER SUPERVI	SOR
CONSTRUCTION MA		
WATER, SEWER, ST		
PROJECT MANAGER		
REVISION	S [DATE
	EROSION & SEDIMENT CONTROL	DETAILS
23-DPR-ITBPW-575 DESIGNED: AB		
DRAWN: AB CHECKED: BCG PLOTTED: MARCH 7 SCALE:	2023	
<u>1</u>	<u>N/A</u>	
		32.2

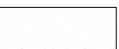




LEGEND



PRE-DEVELOPMENT GRASS/MULCH AREA

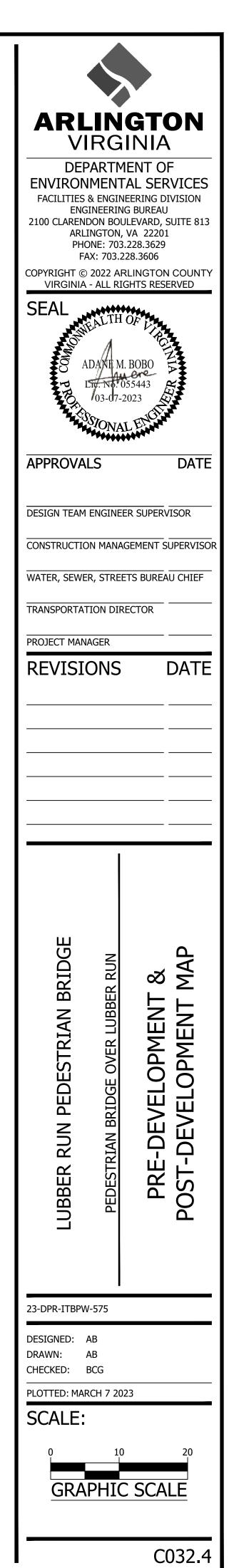


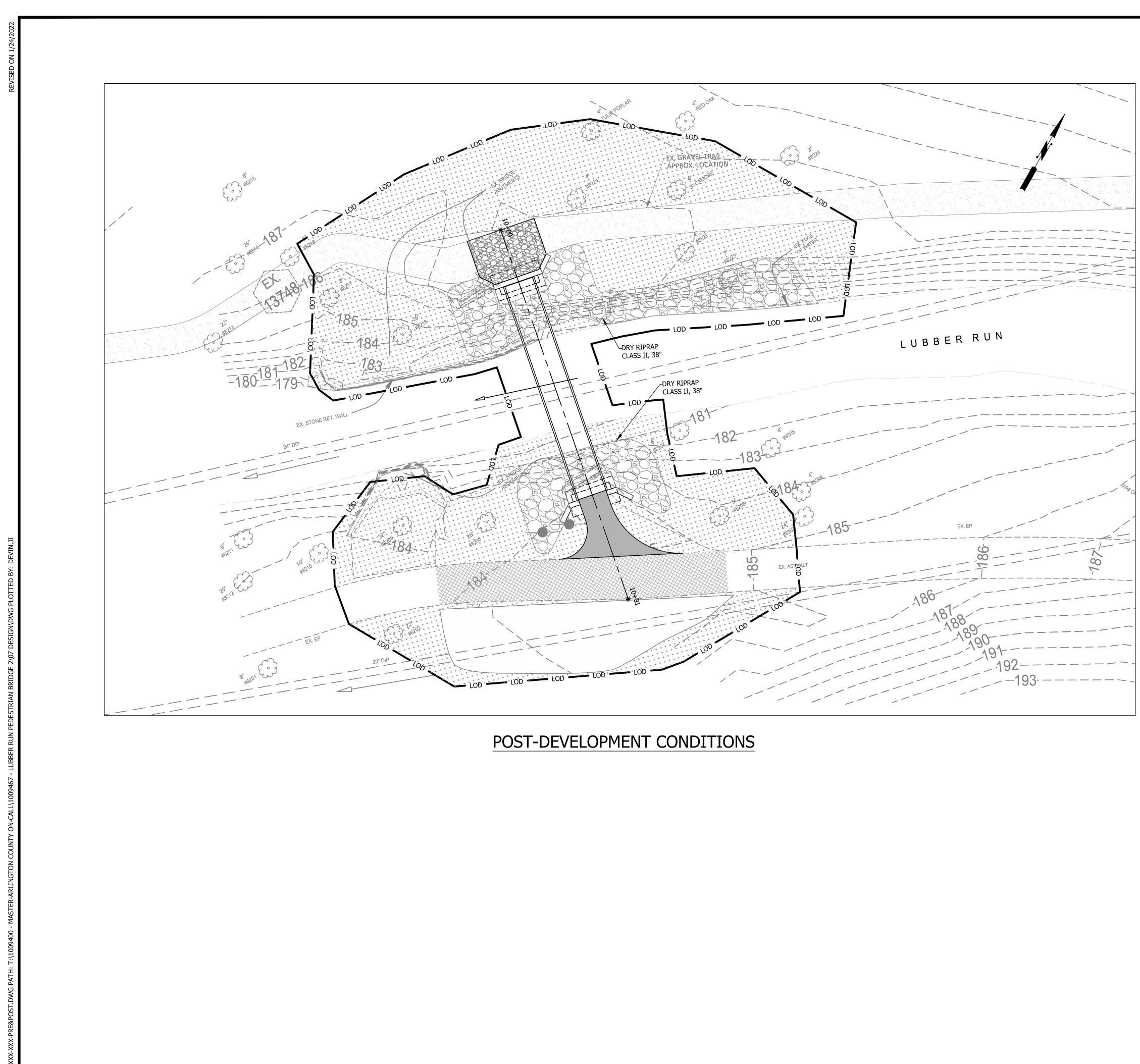
____ LOD ____

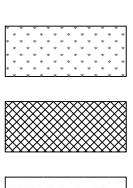
LIMIT OF DISTURBANCE

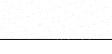
EXISTING GRAVEL

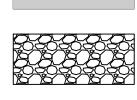
TOTAL PROJECT AREA					
	PRE-DEV.		POST	-DEV.	
	SF	AC	SF	AC	
PERVIOUS AREA	7,406 0.17 7,336		0.17		
IMPERVIOUS AREA	1,227 0.03 1,297		0.03		
	TOTAL LIMIT OF DISTURBANCE			(0.20 AC)	
CHANGE IN IMPERVIOUS			70 SF (0.	.002 AC)	

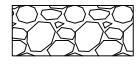












---- LOD

POST-DEVELOPMENT GRASS/MULCH AREA

PROP MILL & OVERLAY SEE TYPICAL SECTION FOR DETAILS

EXISTING GRAVEL

LEGEND

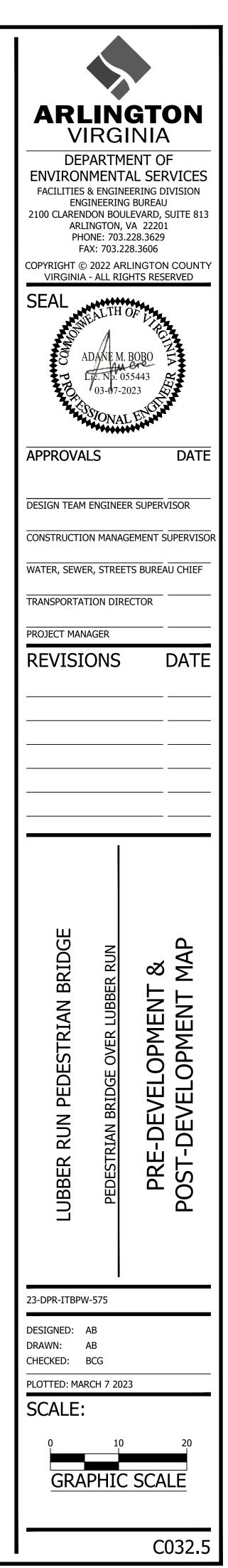
PROP FULL DEPTH ASPHALT SEE TYPICAL SECTION FOR DETAILS

CRUSHER RUN AGGREGATE NO. 25 OR 26

PROP RIPRAP

LIMIT OF DISTURBANCE

TOTAL PROJECT AREA					
	PRE-DEV.		POST	-DEV.	
	SF AC SF		AC		
PERVIOUS AREA	7,406 0.17 7,3		7,336	0.17	
IMPERVIOUS AREA	1,227	0.03	1,297	0.03	
TOTAL LIMIT OF DISTURBANCE			8,633 SF	(0.20 AC)	
CHANGE IN IMPERVIOUS			70 SF (0.	002 AC)	



Project Name: Date:			n Pedestrian Bridge 12/6/2022	e		CLEAR	A
Site Information			elopment Project?	Yes			
Post-Development Project	t (Treatme		-			⊐1	
		Ente	er Total Disturbe	d Area <i>(acres)</i> →	0.20		
		The site's net i		reduction required: ous cover (acres) is:	20% 0		.ar
				tion for Site (lb/yr):	0.03		<u> </u>
Pre-ReDevelopment Land Cover (acr	es)						
Forest/Open Space (acres) undisturbed	A Soils	B Soils	C Soils	D Soils	Totals		_
forest/open space Managed Turf (acres) disturbed, graded for					0.00	-	_
yards or other turf to be mowed/managed				0.17	0.03		
				0.03	0.20		
Post-Development Land Cover (acres	5)						
Forest/Open Space (acres) undisturbed,	A Soils	B Soils	C Soils	D Soils	Totals		-
protected forest/open space or reforested land Managed Turf (acres) disturbed, graded for					0.00	-	
yards or other turf to be mowed/managed				0.17	0.17		
Impervious Cover (acres)	01	01	01	0.03	0.03		
Area Check	ОК.	ОК.	OK.	ОК.	0.20		+
Constants			Runoff Coefficien	ts (Rv)			+
Annual Rainfall (inches) Target Rainfall Event (inches)	43 1.00		Forest/Open Space	A Soils	B Soils	C Soils	t
Total Phosphorus (TP) EMC (mg/L)	0.26		Managed Turf	0.15	0.20	0.22	t
Total Nitrogen (TN) EMC (mg/L) Target TP Load (lb/acre/yr)	1.86 0.41		Impervious Cover	0.95	0.95	0.95	
Pj (unitless correction factor)	0.90						
LAND COVER SUMMARY F	PRE-REDEVE	LOPMENT					R
Land Cover Summ	nary-Pre Listed	A 11		Land Cover Summa Post ReDev. & Ne			F
Pre-ReDevelopment Forest/Open Space Cover (acres)	0.00	Adjusted ¹		Forest/Open Space	0.00		╞
Weighted Rv(forest)	0.00	0.00		Cover (acres) Weighted Rv(forest)	0.00	-	┢
% Forest	0%	0%		% Forest Managed Turf Cover	0%		ļ
Managed Turf Cover (acres)	0.17	0.17		(acres)	0.17		Ļ
Weighted Rv(turf)	0.25	0.25		Weighted Rv (turf)	0.25		
% Managed Turf	85%	85%		% Managed Turf	85%		╞
Impervious Cover (acres)	0.03	0.03		Impervious Cover (acres)	0.03		
Rv(impervious)	0.95	0.95		Rv(impervious)	0.95		
% Impervious	15%	15%		% Impervious	15%		
Total Site Area (acres) Site Rv	0.20	0.20		Final Site Area (acres) Final Post Dev Site Rv	0.20		╞
	0.36	0.36		Final Post Dev Site RV	0.36		L
Treatment Volume an	d Nutrient Lo	ad]			Treat	in
Pre-ReDevelopment Treatment Volume (acre-ft)	0.0059	0.0059		Final Post-Development Treatment Volume (acre-ft)	0.0059		
Pre-ReDevelopment Treatment Volume (cubic feet)	258	258		Final Post-Development Treatment Volume (cubic feet)	258		
Pre-ReDevelopment TP Load (lb/yr)	0.16	0.16		Final Post- Development TP Load	0.16		-
Pre-ReDevelopment TP Load per acre (lb/acre/yr)	0.81	0.81		(lb/yr) Final Post-Development TP Load per acre (lb/acre/yr)	0.81		
Baseline TP Load (lb/yr) (0.41 lbs/acre/yr applied to pre-redevelopment area land proposed for new impervious co		0.08					•
¹ Adjusted Land Cover Summary:			<u></u>				
Pre ReDevelopment land cover minus pervious la managed turf) acreage proposed for new imperv		pen space or					
Adjusted total acreage is consistent with Post-Re	eDevelopment acred	age (minus					L
acreage of new impervious cover).							
Column I shows load reduction requriement for r development load limit, 0.41 lbs/acre/year).	new impervious cove	er (based on new					
			Post-Dev	velopment Requ	lirement for	Site Area	
				Reduction Required		0.03	
			Nit	rogen Loads (Info	rmational Pur		_
	Pre-ReDevelopm	ent TN Load (lb/yr)	1.16			Final Post-D (Post-ReDevelop	
						<u> </u>	Ì

2	ALL	data input cells				
		constant values				
		calculation cells				
		final results				
		Check:	TRUE			
	BMP Design Spe			aft Stds & Specs		
		Linear project?	Yes			
L	and cover areas ent	ered correctly?	\checkmark			
_	Total disturbed	area entered?	\checkmark			
			<u> </u>			
_				· · · · · · · · · · · · · · · · · · ·		
	D.0-11					
	D Soils 0.05		<u> </u>			
	0.25					
1	0.95					
-						
	R SUMMARY PO	DST DEVELO	OPMEN	NT		
1	Land Cover Sum	nmarv-Post		Land Cover Sum	narv-Post	
-	Post-ReDeve			Post-Development N		
-	Forest/Open Space	0.00		· ·		
	Cover (acres)					
_	Weighted Rv(forest) % Forest	0.00				
-	Managed Turf Cover					
	(acres)	0.17				
	Weighted Rv (turf)	0.25				
-	% Managed Turf	85%				
		0370				
	ReDev. Impervious Cover (acres)	0.03		New Impervious Cover (acres)	0.00	
	Rv(impervious)	0.95		Rv(impervious)		
-	% Impervious	15%				
-	Total ReDev. Site Area	0.20				
_	(acres)					
	ReDev Site Rv	0.36				
t	ment Volume and	Nutrient Loa	ad			
						<u> </u>
	Post-ReDevelopment	0.0050		Post-Development		
	Treatment Volume (acre-ft)	0.0059		Treatment Volume (acre-ft)		
	Post-ReDevelopment			Post-Development		
	Treatment Volume	258		Treatment Volume (cubic		
	(cubic feet)			feet)		
	Post-ReDevelopment	0.00		Post-Development TP		
	Load (TP) (lb/yr)*	0.16		Load (lb/yr)	-	
						<u> </u>
	Post-ReDevelopment TP Load per acre	0.81				
	(lb/acre/yr)	0.01				
	May Paduation 5					
	Max. Reduction Required (Below Pre-	20%				
-1	ReDevelopment Load)		J			1
1			·			
	TP Load Reduction					
	TP Load Reduction Required for	0.03		TP Load Reduction Required for New	0	
	TP Load Reduction Required for Redeveloped Area	0.03		TP Load Reduction Required for New Impervious Area (Ib/yr)	0	
	TP Load Reduction Required for	0.03		Required for New	0	
	TP Load Reduction Required for Redeveloped Area	0.03		Required for New	0	
	TP Load Reduction Required for Redeveloped Area	0.03		Required for New	0	
	TP Load Reduction Required for Redeveloped Area	0.03		Required for New	0	
	TP Load Reduction Required for Redeveloped Area	0.03		Required for New	0	
	TP Load Reduction Required for Redeveloped Area	0.03		Required for New	0	
	TP Load Reduction Required for Redeveloped Area	0.03		Required for New	0	
	TP Load Reduction Required for Redeveloped Area	0.03		Required for New	0	
	TP Load Reduction Required for Redeveloped Area	0.03		Required for New	0	
	TP Load Reduction Required for Redeveloped Area	0.03		Required for New	0	
	TP Load Reduction Required for Redeveloped Area	0.03		Required for New	0	
	TP Load Reduction Required for Redeveloped Area (Ib/yr)	0.03		Required for New	0	
	TP Load Reduction Required for Redeveloped Area (Ib/yr)			Required for New	0	
pr	TP Load Reduction Required for Redeveloped Area (Ib/yr)	0.03		Required for New	0	

PROJECT DESCRIPTION

The Lubber Run Pedestrian Bridge Project proposes to replace a pedestrian bridge over Lubber Run in Arlington County, Virginia. The new bridge will be placed in the same location as the old bridge and enables stream crossing and trail connection between the eastern and western parts of Lubber Run Trail. The bridge will have a minimum capacity to carry bikes and pedestrians and will help improve access for people walking, biking, and rolling. An RPA exemption is requested for this project because it provides a link to a planned County trail system.

APPLICABILITY OF SWM CRITERIA

Per the Virginia Stormwater Management Program (VSMP) criteria set forth in 9VAC25-870-66, the developmental regulations and post-construction requirements of Technical Criteria IIB are applicable to any re-development or new-development projects with Regulated Land Disturbance Area of one acre or greater, or 2,500 square feet or greater in designated Chesapeake Bay Preservation Areas (CBPA), including Resource Protection Areas (RPA). The RPA Map shows that the project is within the limits of the RPA for the Lubber Run base channel. Therefore, the 2,500 square foot limit of land disturbance area applies to Stormwater Management (SWM) and Erosion and Sediment Control (ESC) requirements.

The proposed pedestrian bridge will have newly constructed components for the superstructure and the substructure. The superstructure will be a prefabricated steel truss bridge with a wooden deck using southern yellow pine with a span of 46' - 8'' from the center of bearing. The substructure will have the concrete abutments supported by spread footing. Along with the constructed pedestrian bridge is a sidewalk tie-in from an existing sidewalk on the west side of the Lubber Run Trail. The project is proposed to be entirely constructed within the existing footprint of Lubber Run Trail. No subgrade excavation or clearing/grading of the surroundings is proposed.

The total regulated land disturbance for the proposed improvement is 8,633 SF, which is greater than the 2,500 SF limit. Therefore, to comply with the VSMP requirements, the stormwater management plan is required to be developed for the project. Based on the Part IIB Technical Criteria, the Total Phosphorus generated by the proposed improvements and that needs to be treated is calculated using the VRRM spreadsheet. The total phosphorus load reduction required for the project is 0.03 lb/yr. The water quality requirements of the VSMP will be achieved through the use of available phosphorus credits. The stormwater from the disturbed area is discharged into Lubber Run. The one percent rule is used to meet the water quantity requirements of the VSMP. The regulated land disturbance for the project is 8,633 SF (0.20 ac), which is less than 1% of the total drainage area that drains into the stream immediately upstream of the bridge, 890 ac. The outfall points are also located within the FEMA regulated floodplain; therefore, the water quantity requirement of the VSMP for the project is met at the project site using the one percent rule.

SUMMARY

The Lubber Run Pedestrian Bridge Project disturbs more than 2,500 square feet and is located in the RPA; therefore, the SWM plan is required for the project. The water quality requirements of the project will be met using nutrient credit purchase. The water quantity requirements of the project will be met using the one percent rule.



DEPARTMENT OF PARKS AND RECREATION Park Development Division 2100 Clarendon Boulevard, Suite 414, Arlington, Virginia 22201 TEL 703.228.7141 www.arlingtonva.us

February 22, 2023

Qianqian Li 2100 Clarendon Blvd, Suite 710 Arlington, VA 22201 (703) 228-6570

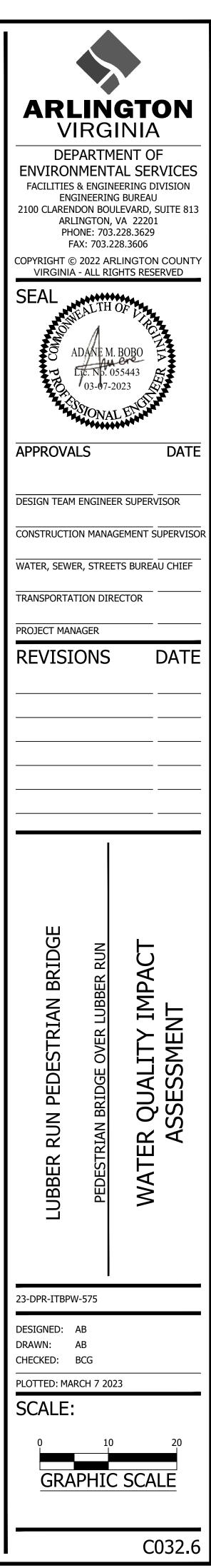
RE: BMP Stormwater Credit Request LDAP22-00161 Lubber Run Pedestrian Bridge 200 N Columbus Street Arlington, VA 22203

Dear Qianqian Li,

The Arlington County Department of Parks and Recreation (DRP) is requesting to use **0.03 pounds of DPR's available phosphorus Credits** for the Lubber Run Pedestrian Bridge project at 200 N Columbus Street

Sincerely, Johna Blerck Joshua B Serck, RLA

cc: file



Appendix C. Water Quality Impact Assessment Data Sheet

Project Address:	Date:
Lubber Run Pedestrian Bridge over Lubber Run	December 6, 2022
, i i i i i i i i i i i i i i i i i i i	
Applicant Name/Affiliation:	Applicant Contact Info
Department of Parks and Recreation	Joshua B. Serck, RLA
Owner/Client Name:	Owner/Client Contact
Department of Parks and Recreation	Joshua B. Serck, RLA
Section 1: Type of activity proposed	
ecolori il i jpe el dell'il proposed	
Activity type (check all that apply):	- Deals notio ar rotair
	□ Deck, patio, or retair
□ New construction (residential, commercial, public, etc.)	□ Landscaping (includ
Alteration of non-residential structure	
□ Residential addition	Utility work

□ Detached residential structure

Section 2: Key details of the proposed activity

	, , , , , , , , , , , , , , , , , , ,		•	
Complete all that apply				Explanati
		_		
Total area of dist	urbance on parcel (sf)	8,633 SF		Includes Also inclu areas, ste
Area of disturba	nce within RPA (sf)	8,63	3 SF	Includes
Area of disturbance on slopes greater than or equal to 15 percent located adjacent to landward RPA boundary (sf)		0	SF	Does not Bridge Re included
		•		T
Complete all fields		Existing condition	Proposed condition	Explanati
	Left third of parcel or site	0	0	The dista
RPA encroachment	Middle third of parcel or site	N/A	N/A	proposed (edge of
(ft)	Right third of parcel or site	0	0	Encroach
Total development footprint in RPA (sf)		8,633 SF	8,633 SF	The exist existing s Proposed area of a regraded
Impervious footpr	rint in RPA (sf)	1,227 SF 1,	297 SF	Total are (rooftops
		(C	VER)	

STAFF USE ONLY

Building/demolition/LDA/Fence permit number(s):

Major WQIA required? \Box Yes \Box No

Date WQIA/Exception request information complete:

Date Chesapeake Bay Preservation Ordinance and E/S ordinance (if applicable) approvised in Permits Plus:

formation (phone and email): _A, 703-228-7141, jserck@arlingtonva.us
ct Information (phone and email): _A, 703-228-7141, jserck@arlingtonva.us
aining wall udes tree removal)
cribe): Public Work Pedestrian Bridge
ation
s building footprint plus a 10-foot buffer. cludes all soil disturbance, ingress/egress stockpiling areas, etc.
s removal of trees ≥ 3" in diameter
ot apply to RPA parcels along Chain Road (15 percent and greater slopes are d as part of RPA)
ation
stance (in feet) from the existing or ed structure to the designated RPA feature of stream or open channel, wetland, etc.). chments of zero (0) indicate the project will the stream or other RPA feature.
isting footprint includes the area of any g structures, patios, decks, walkways, etc. ed footprint is the anticipated post-project all structures, additions, decks, walkways, ed area behind a retaining wall, etc. rea of impervious surfaces within the RPA
os, pavement, etc.)
ovals

Section 3: Plan and Narrative

Provide a plan showing the location of the proposed activity, along with the RPA boundary Briefly describe the proposed project, including any potential water quality impacts and mitigation measures proposed. The narrative must address three impact categories 1. Tree/vegetation impacts, 2. Stormwater and runoff 3. Erosion and sediment control. Please refer to the WQIA plan/narrative checklist for additional information.

PROJECT DESCRIPTION

The purpose of this project is to replace the previous Lubber Run Pedestrian bridge over Lubber Run in Arlington County, VA. The proposed bridge will be a single span, prefabricated pedestrian bridge 6' wide and is 46'-8" long. The new bridge will be placed in the same location as the old bridge and enables stream crossing and trail connection between the eastern and western parts of Lubber Run Trail. The bridge will have a minimum capacity to carry bikes and pedestrians and will help improve access for people walking, biking, and rolling. An RPA exemption is requested for this project because it provides a link to a planned County trail system.

APPLICABILITY OF SWM CRITERIA

Per the Virginia Stormwater Management Program (VSMP) criteria set forth in 9VAC25-870-66, the developmental regulations and post-construction requirements of Technical Criteria IIB are applicable to any re-development or new-development projects with Regulated Land Disturbance Area of one acre or greater, or 2,500 square feet or greater in designated Chesapeake Bay Preservation Areas (CBPA), including Resource Protection Areas (RPA). The RPA Map shows that the project is within the limits of the RPA for the Lubber Run base channel. Therefore, the 2,500 square foot limit of land disturbance area applies to Stormwater Management (SWM) and Erosion and Sediment Control (ESC) requirements.

The proposed pedestrian bridge will have newly constructed components for the superstructure and the substructure. The superstructure will be a prefabricated steel truss bridge with a wooden deck using southern yellow pine with a span of 46' – 8" from the center of bearing. The substructure will have the concrete abutments supported by spread footing. Along with the constructed pedestrian bridge is a sidewalk tie-in from an existing sidewalk on the west side of the Lubber Run Trail. The project is proposed to be entirely constructed within the existing footprint of Lubber Run Trail. No subgrade excavation or clearing/grading of the surroundings is proposed.

The total regulated land disturbance for the proposed improvement is 8,633 SF, which is greater than the 2,500 SF limit. Therefore, to comply with the VSMP requirements, the stormwater management plan is required to be developed for the project. Based on the Part IIB Technical Criteria, the Total Phosphorus generated by the proposed improvements and that needs to be treated is calculated using the VRRM spreadsheet. The total phosphorus load reduction required for the project is 0.03 lb/yr. The water quality requirements of the VSMP will be achieved through the purchase of nutrient credits. The stormwater from the disturbed area is discharged into Lubber Run. The one percent rule is used to meet the water quantity requirements of the VSMP. The regulated land disturbance for the project is 8,633 SF (0.20 ac), which is less than 1% of the total drainage area that drains into the stream immediately upstream of the bridge, 890 ac. The outfall points are also located within the FEMA regulated floodplain; therefore, the water quantity requirement of the VSMP for the project is met at the project site using the one percent rule.

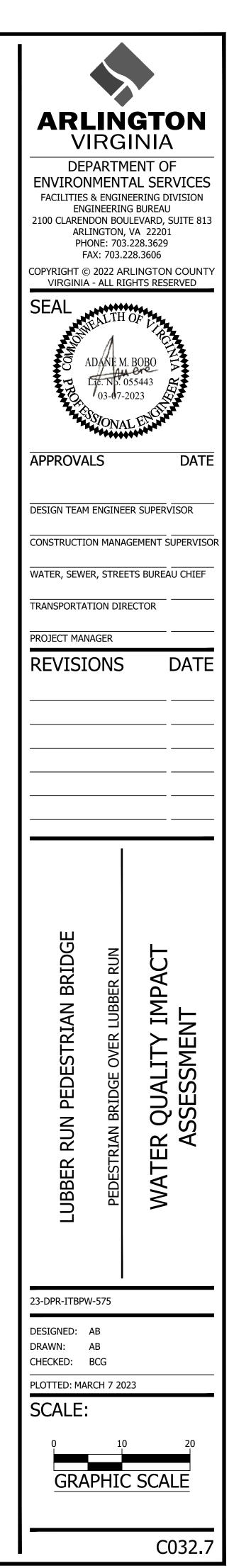
WATER QUALITY DISCUSSION

The proposed project will not have a negative impact on Lubber Run All disturbed area consists of removing, modifying, and replacing an existing impervious area with new impervious area. The pollutant loading for this project will not change under post-development conditions.

EROSION AND SEDIMENT CONTROL

E&S is limited to placement of the proposed bridge and grading, riprap, and mulch. Additional Water Quality Impact Assessment Information

The information supplied on this form satisfies the minimum requirements for a Minor Water Quality Impact Assessment. For projects that disturb over 2500 square feet, elements of a Major Water Quality Impact Assessment may also be required, depending on the nature and extent of the proposed RPA encroachment, as outlined in Section 61-12 of the ordinance.



STORMWATER POLLUTION PREVENTION PLAN Lubber Run Pedestrian Bridge
STORMWATER POLLUTION PREVENTION PLAN (SWPPP) COVER PAGE
For Construction Activities At:
Lubber Run Pedestrian Bridge Over Lubber Run Intersecting Lubber Run Trail Arlington, VA 22203
Latitude: 38.8693 N (decimal degrees)
Longitude: -77.1183 W (decimal degrees)
Construction Activity Operator:
Insert Company/Organization Name Insert Name Insert Address Insert City, State, Zip Code Insert Telephone Number Insert Email Address Insert 24-hour Emergency Contact
SWPPP Preparation Date:
November 10, 2022
CERTIFICATION
"I certify under penalty of law that I have read and understand this document and that this document and all attachments were prepared in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."
Title:
Signature:
Date:

Arlington County – SWPPP 9/2016

5.0 Potential Sources of Pollution & Pollution Prevention Practices

STORMWATER POLLUTION PREVENTION PLAN BR02 - Shirlington Road Pedestrian Bridge Project

			ſ	Polluta	ants							
Pollutant-Generating Activity	Likely Present at your Project Site?	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)	
Paving operations	🛛 Yes 🗌 No	x					х		x		(2)	
Concrete washout and cement waste	🛛 Yes 🗌 No			х	х				х		(3)	
Structure construction, stucco, painting, and cleaning	🛛 Yes 🗌 No			х	х				х	х	(4)	
Dewatering operations	🗌 Yes 🔀 No	x	x						x		(5)	
Material delivery and storage	🛛 Yes 🗌 No	x	х	х	x		х		x	х	(6)	Construction Activity Operator (See Cover Page of this SWPPP)
Material use during building process	🛛 Yes 🗌 No		x	х	х		х		x	х	(7)	
Solid waste disposal	🛛 Yes 🗌 No								x	х	(8)	
Sanitary waste	🛛 Yes 🗌 No		х		х			Х			(9)	
Landscaping operations	🛛 Yes 🗌 No	х	х			х			x	х	(10)	
Others [describe]	🗌 Yes 🗌 No	[X]	[X]	[X]	[X]	[X]	[X]	[X]	[X]	[X]	(11)	

Arlington County – SWPPP 9/2016

	STORMWATER POLLUTION PREVENTION PLAN Lubber Run Pedestrian Bridge
1.0 SWPPP Documents Located Onsite & Available	e for Review
SWPPP Document Type	Located Onsite & Available for Review?
Registration Statement Notice of Coverage Letter Construction General Permit Pollution Prevention Plan Erosion & Sediment Control Plan (or agreement in lieu of) Stormwater Management Plan	 Yes NA Yes NA Yes NA Yes NA Yes NA Yes NA
2.0 Authorized Non-Stormwater Discharges	
Type of Authorized Non-Stormwater Discharge	Likely Present at Your Project Site?
External buildings wash down Uncontaminated foundation or footing drains Uncontaminated excavation dewatering Landscape irrigation Others [describe]	 Yes Yes No Yes No Yes No Yes No Yes No

3.0 Pollution Prevention Awareness

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

4.0 Erosion & Sediment Controls

Select all that apply	Erosion & Sediment Control	Estimated Installation Date	Estimated Removal Date	Responsible Party
	Construction Entrance (Std. & Spec. 3.02)			
	Silt Fence (Std. & Spec. 3.05)			
	Culvert Inlet Protection (Std. & Spec. 3.08)			
	Outlet Protection (Std. & Spec. 3.18)		NA	
	Temporary Seeding (Std. & Spec. 3.31)	As required by 3.31	NA	Construction Activity Operator (See Cover Page of this SWPPP)
	Permanent Seeding (Std. & Spec. 3.32)		NA	
	Sodding (Std. & Spec. 3.33)		NA	
	Mulching (Std. & Spec. 3.35)		NA	
	Safety Fence (Std. & Spec 3.01)			

Arlington County – SWPPP 9/2016

STORMWATER POLLUTION PREVENTION PLAN BR02 - Shirlington Road Pedestrian Bridge Project

Pollution Prevention Practices:

- (1) Clearing, grading, excavating and un-stabilized areas Utilize erosion and sediment controls to prevent sediment laden or turbid runoff from leaving the construction site. Dispose of clearing debris at acceptable disposal sites. Apply permanent or temporary stabilization, sodding and/or mulching to denuded areas in accordance with the erosion and sediment control specifications and the general VPDES permit for discharges of stormwater from construction activities.
- (2) **Paving operations** Cover storm drain inlets during paving operations and utilize pollution prevention materials such as drip pans and absorbent/oil dry for all paving machines to limit leaks and spills of paving materials and fluids.
- (3) **Concrete washout and cement waste** Direct concrete wash water into a leak-proof container or leak-proof settling basin that is designed so that no overflows can occur due to inadequate sizing or precipitation. Hardened concrete wastes shall be removed and disposed of in a manner consistent with the handling of other construction wastes.
- (4) **Structure construction, stucco, painting and cleaning** Enclose, cover or berm building material storage areas if susceptible to contaminated stormwater runoff. Conduct painting operations consistent with local air quality and OSHA regulations. Mix paint indoors, in a containment area or in a flat unpaved area. Prevent the discharge of soaps, solvents, detergents and wash water from construction materials, including the clean-up of stucco paint, form release oils and curing compounds.
- (5) **Dewatering operations** Construction site dewatering from building footings or other sources may not be discharged without treatment. Sediment laden or turbid water shall be filtered, settled or similarly treated prior to discharge. (6)
- Material delivery and storage Designate areas of the construction site for material delivery and storage. Place near construction entrances, away from waterways, and avoid transport near drainage paths or waterways.
- (7) Material use during building process Use materials only where and when needed to complete the construction activity. Follow manufacturer's instructions regarding uses, protective equipment, ventilation, flammability and mixing of chemicals.
- (8) **Solid waste disposal** Designate a waste collection area on the construction site that does not receive a substantial amount of runoff from upland areas and does not drain directly to a waterway. Ensure that containers have lids so they can be covered before periods of rain, and keep containers in a covered area whenever possible. Schedule waste collection to prevent the containers from overfilling. Sanitary waste – Prevent the discharge of sanitary waste by providing convenient and well-maintained portable (9)
- sanitary facilities. Locate sanitary facilities in a convenient location away from waterways. (10) Landscaping operations – Maintain as much existing vegetation as practicable. Apply permanent or temporary stabilization, sodding and/or mulching to denuded areas in accordance with the erosion and sediment
- control specifications and the general VPDES permit for discharges of stormwater from construction activities. Apply nutrients in accordance with manufacturer's recommendations and not during rainfall events. (11) **Others** – If applicable, describe your Pollution Prevention Practice.

6.0 Stormwater Management Controls

Select all that apply	Stormwater Management Control	Estimated Installation Date	Responsible Party
	Post-development Stormwater Management Controls provided by a Larger Common Plan of Development or Sale	NA	Common Plan Construction Activity Operator
	Rooftop Disconnection		
	Sheet flow to Vegetated Filter (1 or 2)		Construction
	Grass Channel		Activity Operator (See Cover Page
			of this SWPPP)
	Permeable Pavement (1 or 2)		

Arlington County – SWPPP 9/2016

Arlington County – SWPPP 9/2016

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

7.0 Spill Prevention & Response

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

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

- ARE LIKELY TO PRESENT A HAZARD.
- any person. 3. Stop the spill source.
- 6. Stop spill from spreading (use absorbent or other material)
- 7. If spilled material has entered a storm sewer; contact locality's storm water department.
- and do not flush area with water.

Emergency Contacts:

Normal Working Hours

DEQ Northern Regional Office

Nights, Holidays & Weekends

VA Dept. of Emergency Management 24 Hour Reporting Service

Local Contacts

Arlington County Fire & Police DES Water, Sewer, Streets 24-Hour Emergency Washington Gas Emergency

Arlington County – SWPPP 9/2016

STORMWATER POLLUTION PREVENTION PLAN	
Lubber Run Pedestrian Bridge	

Storm Drain Inlet Protection (Std. & Spec 3.08) (Std. & Spec 3.26) Turbidity Curtain (Std. & Spec 3.27) Tree Protection (Arlington County Std. & Spec.) Others [describe]

Dewatering

 \boxtimes

 \boxtimes

L	.u

STORMWATER POLLUTION PREVENTION PLAN BR02 - Shirlington Road Pedestrian Bridge Project

Protect equipment and property

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 2. Make Sure the spill area is safe to enter and that it does not pose an immediate threat to health or safety of

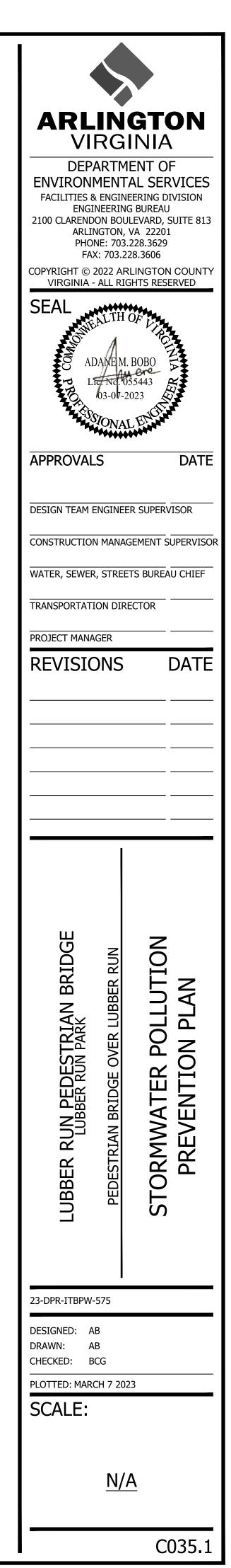
4. Call co-workers and supervisor for assistance and to make them aware of the spill and potential dangers. 5. If possible, stop spill from entering drains (use absorbent or other material as necessary).

8. Clean up spilled material according to manufacturer specifications, for liquid spills use absorbent materials 9. Properly dispose of cleaning materials and used absorbent material according to manufacturer specifications.

703-583-3800

804-674-2400

703-558-2222 703-228-6555 703-750-1400



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organization name, the Operator's name a	
address (if available), and a 24-hour emer	
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ject site and identify areas of possible pol cable to their assigned job duties. Con	
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	ng location, the date grading activities
e SWPPP modification/update, and the nar	me and title of the SWPPP modification
	The and physical address (if available), inclue of the construction activity. (organization name, the Operator's name address (if available), and a 24-hour eme cover page of the SWPPP is responsible note that state statues require the SWPP icer; heral partner or the proprietor, respectively agency: by either a principal executive office & Available for Review equired SWPPP documents are located of the sequired SWPPP documents are located of the sequired SWPPP documents are located of the sequired the project site. If a rovide it here. is be present at the project site. Correlated to their assigned job duties. Correlate to their assigned job duties. Correlate to their assigned job duties. Correlate to the sequire the project site, implement an rating activity is likely to be present at the ng pollution prevention Practices a present at the project site; implement an rating activity is likely to be present at the ng pollution prevention practice(s) to be in implemented at the project site, if applicate unlisted stormwater management control of the specifications. The priority should be to p of your local fire and police departments. In name, the inspector's name, telephone inted best management practices are in implementing the corrective actions, and i on and corrective action log as necessary. g escription of the grading activities includite ad, and a description of the stabilization me

STORMWATER POLLUTION PREVENTION PLAN

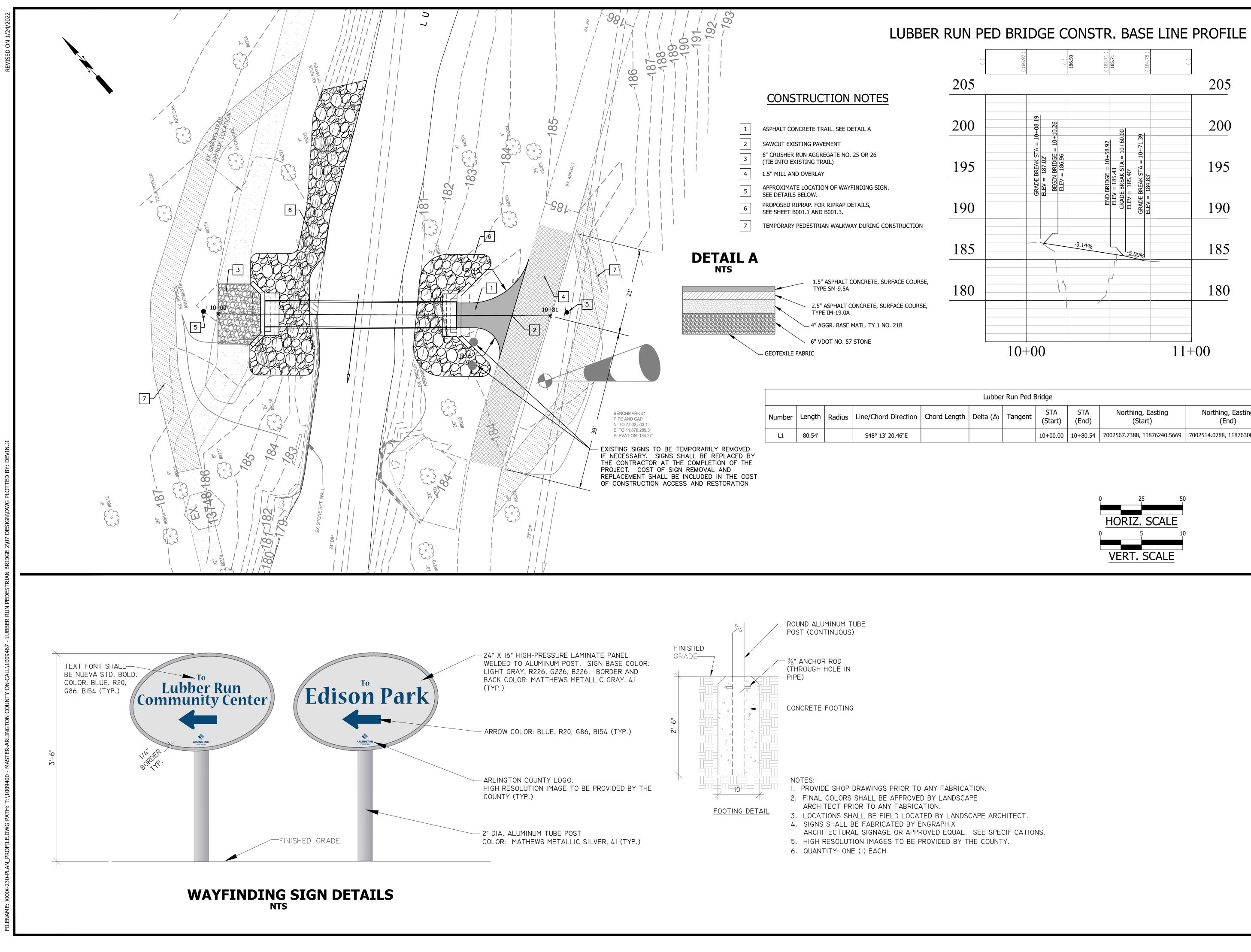
Best Management Practices (BMPs)	In Compliance with SWPPP?	Corrective Action Needed; Responsible Party & Notes	Date Corrective Action Taken	9.0 Gradir Date Grading	ng & Stabilization Activitie Description of the Grading Activity
Are all slopes and disturbed areas not actively being worked properly stabilized?	☐ Yes ☐ No ☐ NA			Activity Initiated	(including location)
Are washout facilities (e.g., concrete, paint, stucco) available, clearly marked and maintained?	☐ Yes ☐ No ☐ NA				
Is trash/litter from work areas collected and contained in dumpsters?	☐ Yes ☐ No ☐ NA				
Are non-stormwater discharges (e.g., wash water, dewatering) properly controlled?	☐ Yes ☐ No ☐ NA				
Are natural resources (e.g., streams, wetlands, mature trees) area protected with barriers or similar BMPs?	☐ Yes ☐ No ☐ NA				
Are vehicle and environment					
Are vehicle and equipment fueling, cleaning and maintenance areas free of spills, leaks, or other deleterious material?	☐ Yes ☐ No ☐ NA				
fueling, cleaning and maintenance areas free of spills, leaks, or other	🗌 No			10.0 SWPP	P Modification & Update L
fueling, cleaning and maintenance areas free of spills, leaks, or other deleterious material? Are materials that are potential stormwater contaminants stored inside or	□ No □ NA □ Yes □ No			10.0 SWPP Modification Date	-
fueling, cleaning and maintenance areas free of spills, leaks, or other deleterious material? Are materials that are potential stormwater contaminants stored inside or under cover? Are disturbed areas stabilized within 7 days, if areas denuded will remain undisturbed for 14 days?	□ No □ NA □ Yes □ NA □ Yes □ No □ NA	lescribed above (use another page is	necessary)	Modification	Descript
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STORMWATER POLLUTION PREVENTION PLAN BR02 - Shirlington Road Pedestrian Bridge Project

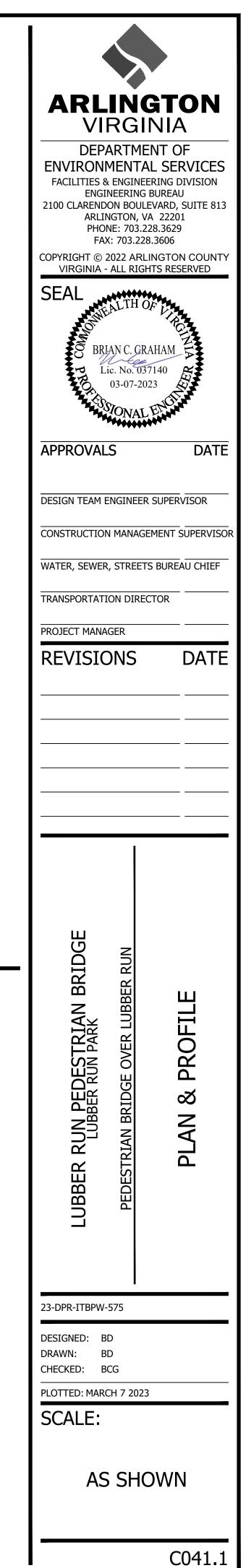
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)	Date Grading Activity Ceased	Date Stabilization Measures Initiated	Description of the Stabilization Measure (including location)
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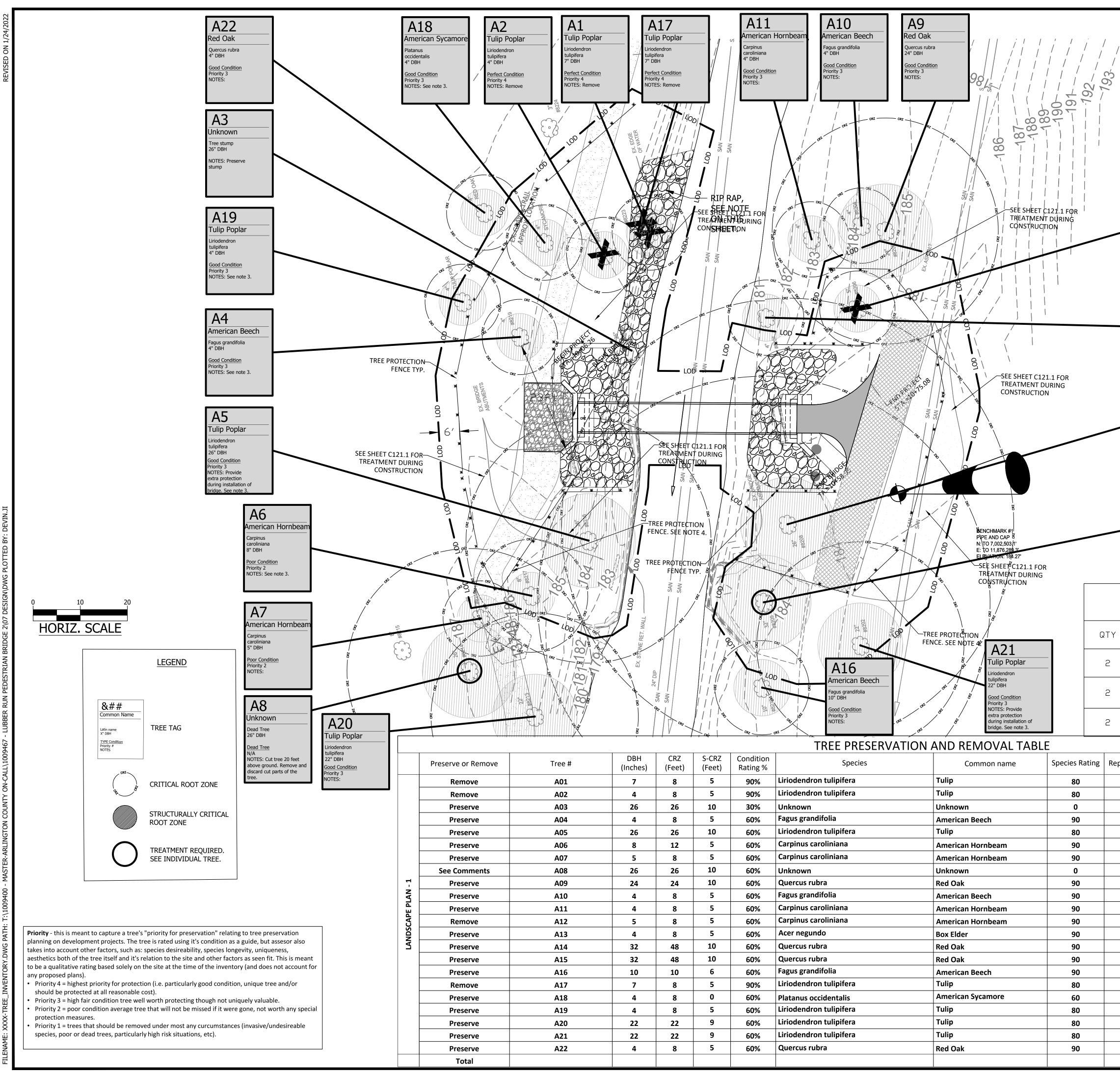
iption of the Modification / Update that request the modification)	Modification Prepared By (name & title)

		DESIGNED: / DRAWN: /	LUBBER RUN PEDESTRIAN BRIDGE LUBBER RUN PARK	CONSTRUCTIC	APPROVA	DEP DEP ENVIRON FACILITIES ENG 2100 CLARENI ARLI PHC FA COPYRIGHT ©
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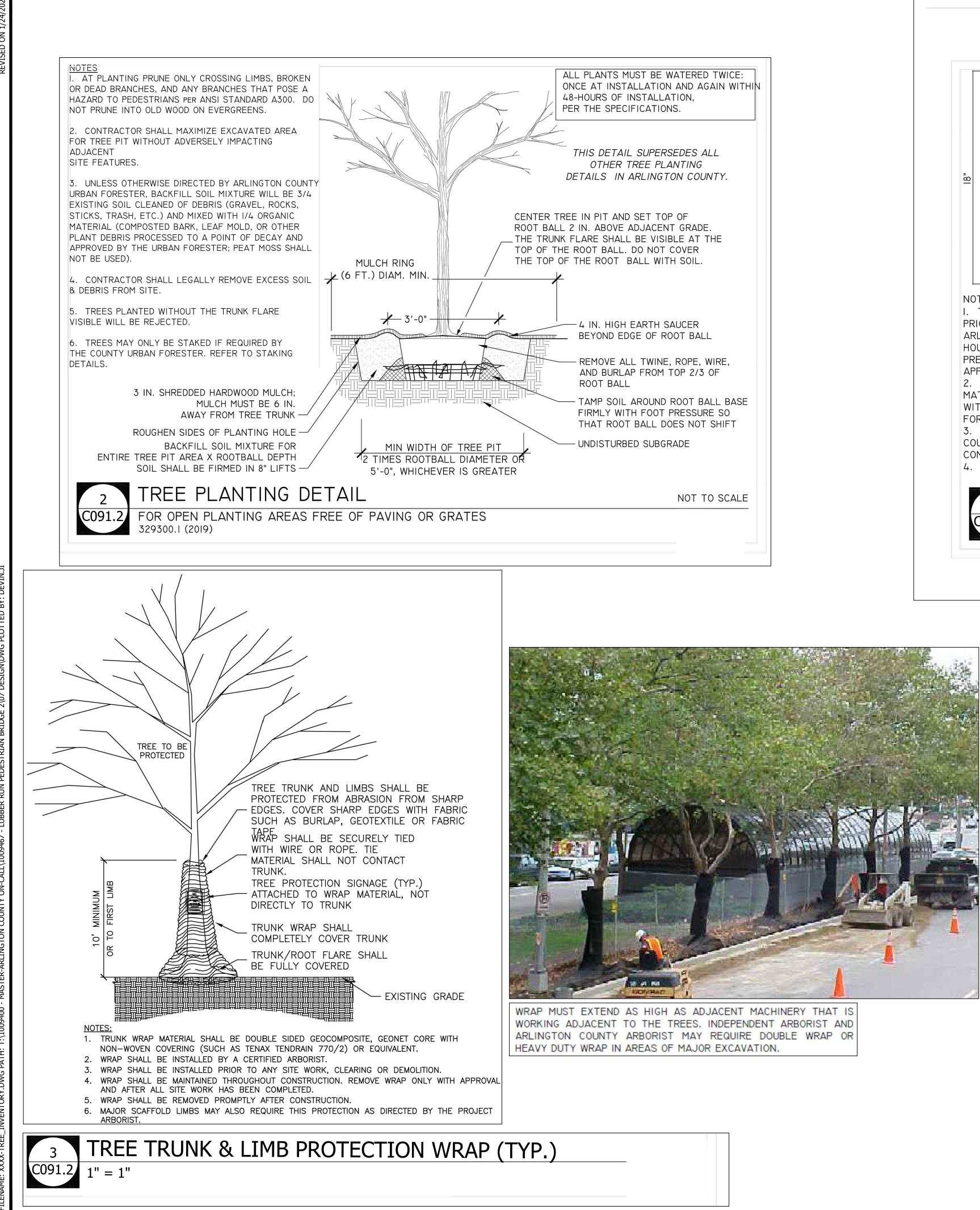


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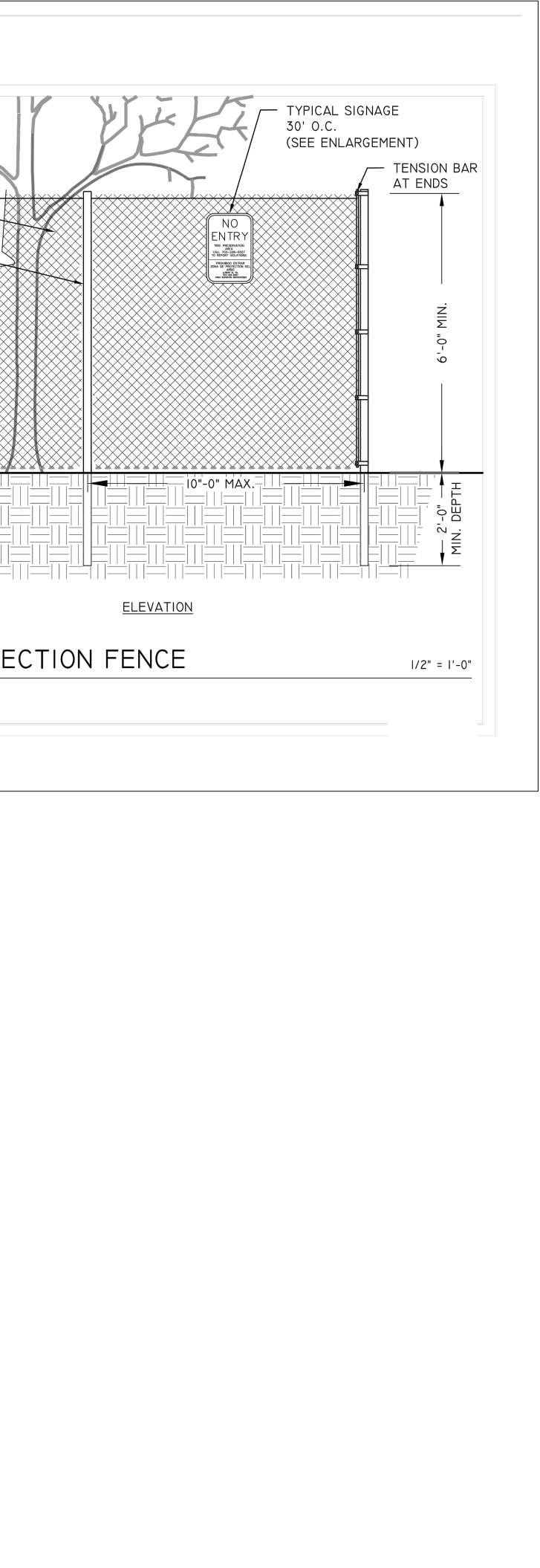




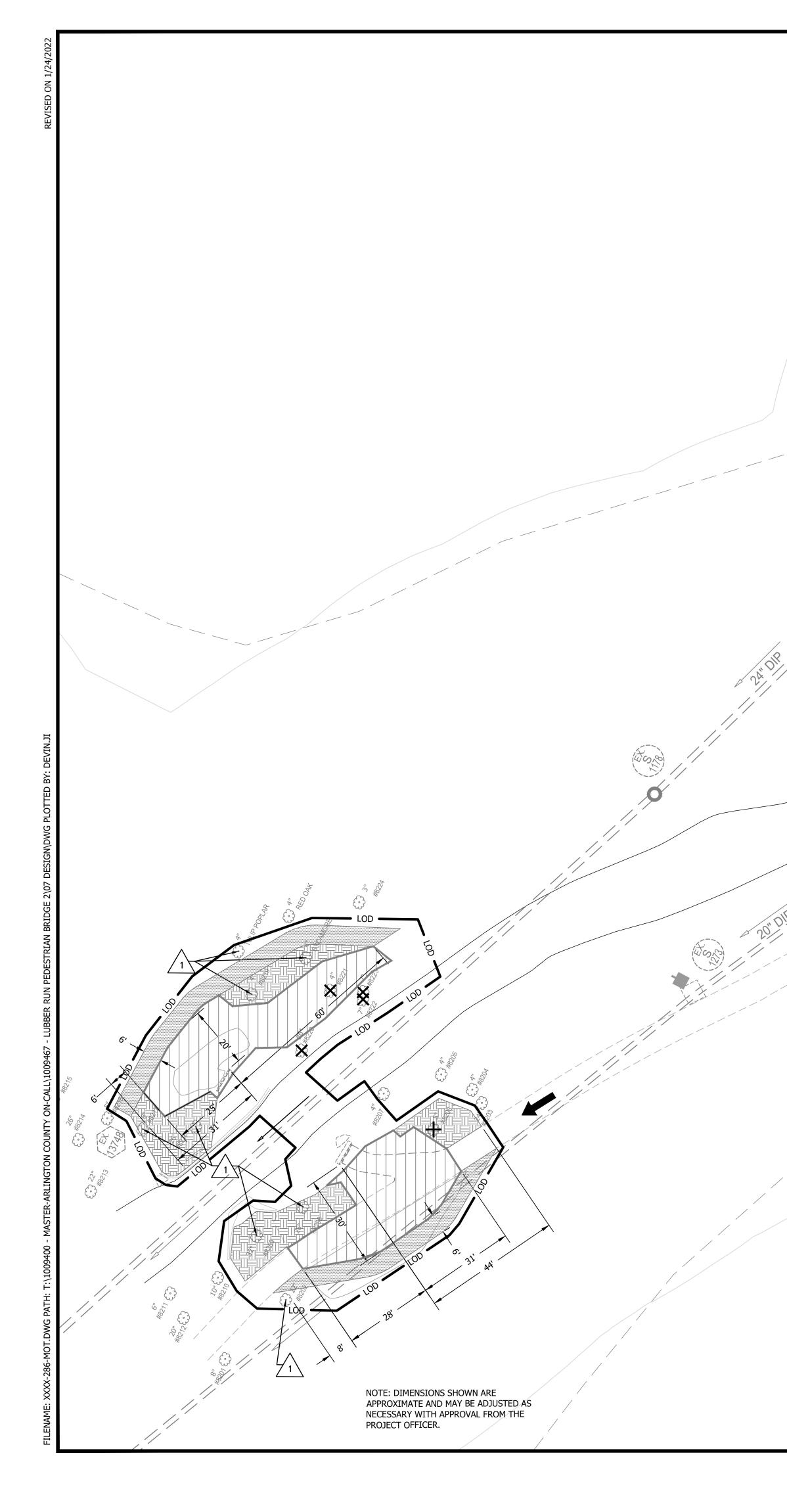
r A1 Tulip Poplar Liriodendron	A17 Tulip Poplar	vi	A11 American _{Carpinus}		A9 Red Oak Quercus rubra		1					
Perfect Condition Priority 4 NOTES: Remove	Linodenaron tulipifera 7" DBH <u>Perfect Condition</u> Priority 4 NOTES: Remove		caroliniana 4" DBH <u>Good Condition</u> Priority 3 NOTES:	Fagus grandifolia 4" DBH <u>Good Condition</u> Priority 3 NOTES:	24" DBH <u>Good Condition</u> Priority 3 NOTES: 9000000000000000000000000000000000000		/ /)		LEGEN	<u>D</u>	ARLIN VIRG	
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			OTE 121.1 FOR		SEE SHEET C: TREATMENT CONSTRUCTI	DURING	A12 American Hornbea Carpinus caroliniana	am	DISTURBANCE		SEAL SEAL TH	OF UIRC
		CON SHIBET					5" DBH <u>Poor Condition</u> Priority 2 NOTES: Remove		EE DRAWINGS BOO1.1 FOR FURTHER		CAN OLIVER H	OEHM 5 168 5 -2023 AV
CRZ CRZ CRZ			001 100 m				A13	-	CATION AND PLACEMENT FOR RIPI E CONTRACTOR SHALL PROVIDE AN		SCAPE	ARCHI
CRZ		ORI ORI					Box Elder Acer negundo 4" DBH	TREE TREES FINAL	SPECIES AS SHOWN IN THE PLANT S SHALL BE PLANTED WITHIN THE I LOCATION OF EACH TREE SHALL IE COUNTY ARBORIST PRIOR TO TH	SCHEDULE. PROJECT LIMITS. BE DETERMINED	APPROVALS	DATE
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					SEE SHEET C121 TREATMENT DU CONSTRUCTION	IRING	A14 Red Oak	FOR A	NTRACTOR SHALL INSTALL TRUNK ANY TREE WITHIN THE LOD TO REM SHEET C091.2		WATER, SEWER, STRE	
					- MVS - NVS - QO7		Quercus rubra 32" DBH Good Condition Priority 3	- 4. CO	NTRACTOR SHALL COORDINATE WIT		PROJECT MANAGER	
	SPE SHEET TREATMEN CONSTRUC	C121.1 FOR T DURING TION					NOTES: Extra protection during installation of bridge. See note 3.	FENCI	RIST ABOUT RELOCATION OF TREE NG PRIOR TO ARRIVAL OF EQUIPME LLATION OF REPLACEMENT BRIDGE.	ENT FOR THE	REVISIONS	1
			20	K K K K K K K K K K K K K K K K K K K			A15 Red Oak Quercus rubra	$ \rangle$ Fores	ANY POINT DURING CONSTRUCTION	REE		
	TREE PROTECT FENCE. SEE NO			507 CH2	BENCHMARK #1 PIPE AND CAP 8 N:TO 7,002,503 /1'		32" DBH <u>Good Condition</u> Priority 3 NOTES: Remove asphalt around tree without	MULCH	CTION/CONSTRUCTION, ROOT MAT	IING AND/OR		
200 m 100 m	TREE PROTECTION	ON- YP. ŝ			E: to 11,876,289 3' EL EVATION: 184.27' SEE SHEET ^S C121.1 FOR TREATMENT DURING CONSTRUCTION		mechanical means. Use caution not to damage ro system. Provide extra protection during installat of bridge. See note 3.					
	LOD SAN	PO1						F	LANT SCHEDULE			
and Board Contraction of the second s	PART - WAL			1000 H	TREE PROTECTION FENCE. SEE NOTE 42 A21]	Y COMMO	N NAME	LATIN NAME	SIZE	BRIDGE ER RUN	AN AN
	24" DIP			Anterican Beech	Image: state	2		AMORE	Platanus occidentalis	1.5″ CAL.	m	AN PL
	SAN -		101	Fagus grandifolia 10" DBH Good Condition Priority 3 NOTES:	Back Back Good Condition Priority 3 NOTES: Provide csrl str	2		DAK NBEAM	Quercus rubra Carpinus caroliniana	1.5″ CAL. 1.5″ CAL.	RUN PEDESTRIAN LUBBER RUN PARK	TORY CTION
			CRZ	TREE PRESE	RVATION AND REMOVAL TABLE	J					ER RU IDGE	/EN TEC
Tree #	DBH CRZ (Inches) (Feet)		Condition Rating %	Species	Common name		eplacement Value	Replacements	Priority (1-4) Comr	nents		PRO
A01 A02	7 8 4 8	5 5	90% 90%	Liriodendron tulipifera Liriodendron tulipifera	Tulip Tulip	80 80	5.04 2.88	2 1	4 Remove a	nd discard nd discard	n n n n n n n n n n n n n n n n n n n	TREE 'REE P
A03 A04	26 26 4 8	10 5	30% 60%	Unknown Fagus grandifolia	Unknown American Beech	0 90	0 2.16	0 0	1 Preserve 3 3	e stump	LUBBER	TR
A05	26 26 8 12	10	60%	Liriodendron tulipifera Carpinus caroliniana	Tulip	80	12.48	0	3			
A06 A07	8 12 5 8	5	60% 60%	Carpinus caroliniana Carpinus caroliniana	American Hornbeam American Hornbeam	90 90	4.32 2.7	0 0	2 2			
A08	26 26	10	60%	Unknown	Unknown	0	0	0		op of tree		
A09 A10	24 24 4 8	10 5	60% 60%	Quercus rubra Fagus grandifolia	Red Oak American Beech	90 90	12.96 2.16	0 0	3 3		23-DPR-ITBPW-575	
A11 A12	4 8 5 0	5	60% 60%	Carpinus caroliniana Carpinus caroliniana	American Hornbeam American Hornbeam	90 90	2.16	0	3 2 Remove a	nd discard	DESIGNED: BD DRAWN: WA	
A12 A13	4 8	5	60%	Acer negundo	Box Elder	90	2.16	0	3 Kenove a		CHECKED: OB	
A14 A15	32 48 32 48	10 10	60% 60%	Quercus rubra Quercus rubra	Red Oak Red Oak	90 90	17.28 17.28	0	3 3 Remove aspha	Ilt around tree		2023
A15 A16	32 48 10 10	6	60% 60%	Fagus grandifolia	American Beech	90	5.4	0	3 Keniove aspira		SCALE:	
A17	7 8	5 0	90% 60%	Liriodendron tulipifera	Tulip American Sycamore	80	5.04	2		nd discard		
A18 A19	4 8 4 8	5	60% 60%	Platanus occidentalis Liriodendron tulipifera	Tulip	60 80	1.44 1.92	0 0	3 3		AS SH	HOWN
A20	22 22 22 22	9	60%	Liriodendron tulipifera Liriodendron tulipifera	Tulip Tulip	80	10.56	0	3			
A21 A22	22 22 4 8	5	60% 60%	Quercus rubra	Red Oak	80 90	10.56 2.16	0 0	3 3			
								6				C091.1
											LUBBER RUN PEDESTR	ian B ruðge r run park



TS MUST BE WATERED TWICE: NSTALLATION AND AGAIN WITHIN OF INSTALLATION, PECIFICATIONS.	
TAIL SUPERSEDES ALL ER TREE PLANTING IN ARLINGTON COUNTY.	TREE PRESERVATION 2" CHAIN 2" CHAIN 2" CHAIN CALL: 703-228-6557 10.
AND SET TOP OF OVE ADJACENT GRADE. HALL BE VISIBLE AT THE ALL. DO NOT COVER OT BALL WITH SOIL.	PROHIBIDO ENTRAR ZONA DE PROTECTION DEL ARBOL LLAMAR AL TEL. 703-228-6557 PARA REPORTAR INFRACCIONES 2" SIGN ENLARGEMENT 2" = '-0"
IIGH EARTH SAUCER D EDGE OF ROOT BALL E ALL TWINE, ROPE, WIRE, JRLAP FROM TOP 2/3 OF BALL	NOTES: I. TREE PROTECTION FENCE (TPF) SHALL BE INSTALLED PRIOR TO ANY SITE WORK, CLEARING OR DEMOLITION. ARLINGTON COUNTY URBAN FORESTER SHALL BE NOTIFIED 72 HOURS PRIOR TO INSTALLATION OR ANY OTHER TREE PRESERVATION MEASURE SPECIFIED IN PLANS AND SHALL APPROVE LAYOUT. 2. NO PERSONNEL, VEHICLES, EQUIPMENT, CONSTRUCTION
SOIL AROUND ROOT BALL BASE WITH FOOT PRESSURE SO ROOT BALL DOES NOT SHIFT URBED SUBGRADE	MATERIALS OR DEBRIS ALLOWED IN TREE PROTECTION AREAS WITHOUT WRITTEN CONSENT OF ARLINGTON COUNTY URBAN FORESTER. 3. REMOVE TPF ONLY WITH APPROVAL FROM ARLINGTON COUNTY URBAN FORESTER AFTER ALL SITE WORK HAS BEEN COMPLETED. 4. SIGN MATERIAL TO BE WEATHER RESISTANT.
NOT TO SCALE	1 6' CHAIN LINK TREE PROTI C091.2 311300.1 (2016) (02231.1)



	NIA
DEPARTME ENVIRONMENTA FACILITIES & ENGINE ENGINEERING	AL SERVICES ERING DIVISION
2100 CLARENDON BOUL ARLINGTON, V PHONE: 703.2 FAX: 703.22	EVARD, SUITE 813 /A 22201 228.3629
COPYRIGHT © 2022 ARL VIRGINIA - ALL RIG	INGTON COUNTY
SEAL	FURC
OLIVER BOI DUW No. 1168 03-07-20	
APE AF	
APPROVALS	DATE
DESIGN TEAM ENGINEER	R SUPERVISOR
CONSTRUCTION MANAG	
TRANSPORTATION DIRE	
REVISIONS	DATE
LUBBER RUN PEDESTRIAN BRIDGE LUBBER RUN PARK PEDESTRIAN BRIDGE OVER LUBBER RUN	IL & NCE
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JBBER RUN PEDESTRIAN BRIDG LUBBER RUN PARK PEDESTRIAN BRIDGE OVER LUBBER RUN	Tree Planting Detail & Tree Protection Fence
	T R R
23-DPR-ITBPW-575	
DESIGNED: BD DRAWN: WA CHECKED: OB	
PLOTTED: MARCH 7 2023	3
AS SHO	
	C091.2



SUGGESTED SEQUENCE OF CONTRUC

18" CPP

8" DIP

AR WGTON

72 PC & 73.046.001

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14 10 10 10

24" DIP

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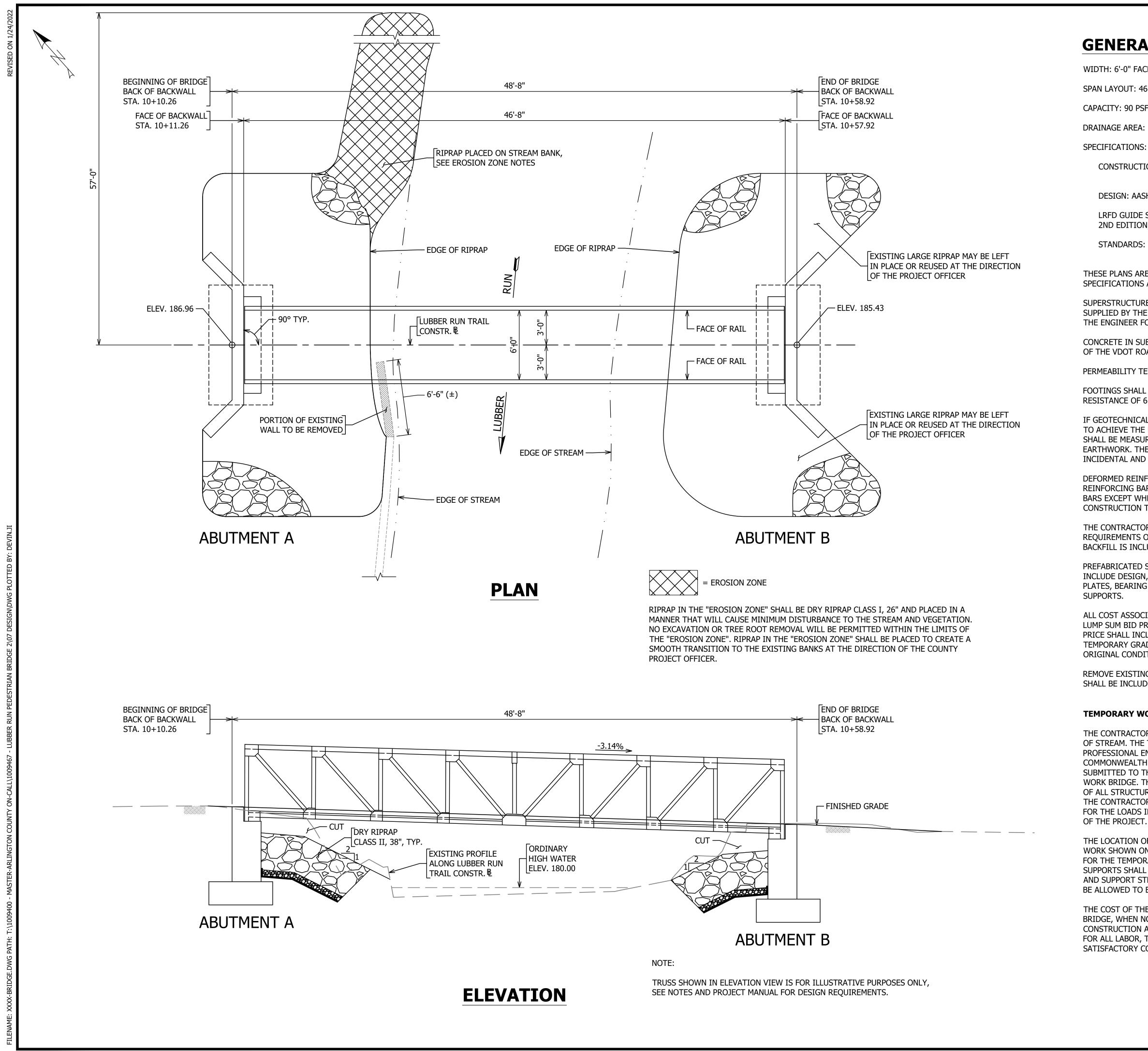
- ACCESS THE SITE IN ACCORDANC
- INSTALL EROSION AND SEDIMEN INSTALL TREE PROTECTION M
- ESTABLISH ACCESS TO THE WEST MEANS.
- CONSTRUCT TEMPORARY PEDEST
- COMPLETE TREE REMOVAL AS SH REMOVE EXISTING ABUTMENT ON
- CONSTRUCT AND BACKFILL ABUT
- COMPLETE GRADING AND FINISH
- COMPLETE TREE PLANTING AND I 10. TRANSFER ALL EQUIPMENT AND 111. STRUCTURES.
- REMOVE EXISTING ABUTMENT AN 12. 13. CONSTRUCT AND BACKFILL ABUT
- 14. PERFORM A WALKTHROUGH TO D TO BRANCHES ALONG THE ACCES
- 15. DELIVER AND INSTALL PREFABRIC 16. COMPLETE ASPHALT PAVING OPE
- 17. COMPLETE TREE PLANTING
- 18. REMOVE THE PEDESTRIAN DETOU
- 19. REMOVE EROSION AND SEDIMEN

NOTES

- SEE TREE INVENTORY AND TREE TREES FOR REMOVAL. TREES TO TIMES. PRIOR TO THE INSTALLAT CONTRACTOR AND THE COUNTY PRUNING SHALL BE INCLUDED IN CONTRACTOR SHALL MAINTAIN P
- COURSE OF THE PROJECT. CONTRACTOR SHALL MAINTAIN A LAYER WILL BE CONDUCTED ON A CONDITIONS AS THEY ARISE.
- CLEARING FOR CONSTRUCTION (HARDWOOD MULCH, COMPACTED
- THE SUGGESTED SEQUENCE OF C TREES ARE PLANTED DURING THE

		CONSTRU	CTION NOTES			
AMPITHEATER	$\underline{\bigwedge}_{1}$	EXISTING TREE NOT SEE TREE INVENTOR	TO BE DISTURBED Y PLAN FOR ADDITIONAL INFORM/	ATION	ARLIN VIRG	INIA
					DEPARTM ENVIRONMENT FACILITIES & ENGIN ENGINEERIN 2100 CLARENDON BOU ARLINGTON,	AL SERVICES EERING DIVISION G BUREAU JLEVARD, SUITE 813
PP 18" CPP 8" DIP	X	CONSTRUCTION ACC			Phone: 703 Fax: 703.2 Copyright © 2022 AF Virginia - All Ri	.228.3629 228.3606 RLINGTON COUNTY
4000			WORK AREA		SEAL MEALTH	OF UT
M			TEMPORARY 10 INCH MULCH LA	AYER	BRIAN C. C Lic. No. 0 03-07-1	037140
			TEMPORARY 4 INCH MULCH LAY (SEE ARLINGTON CO. STANDAR		SSIONA	LENGT
EXISTING SIGNS TO BE		- LOD	LIMIT OF DISTURBANCE		APPROVALS	DATE
NECESSARY. SIGNS SHA CONTRACTOR AT THE C COST OF SIGN REMOVA BE INCLUDED IN THE C	ALL BE REF COMPLETION L AND REP OST OF CC	PLACED BY THE OF THE PROJECT PLACEMENT SHALL			DESIGN TEAM ENGINE	
ACCESS AND RESTORAT	ΓΙΟΝ				WATER, SEWER, STRE	ETS BUREAU CHIEF
					TRANSPORTATION DIR	ECTOR
					REVISIONS	DATE
F CONTRUCTION]		
ACCORDANCE WITH THE DETAILS AND ID SEDIMENT CONTROL MEASURES FECTION MEASURES AND RECEIVE A O THE WEST SIDE OF THE STREAM BY	.PPROVAL F	ROM COUNTY ARE	ORIST.	APPROVED		
ARY PEDESTRIAN DETOURS AND TREE OVAL AS SHOWN ON SHEET C091.1. BUTMENT ON THE WEST SIDE OF THE S CKFILL ABUTMENT A AND PLACE RIPRAF AND FINISHED SURFACING FOR THE TH NTING AND REMOVE THE PEDESTRIAN PMENT AND MATERIALS TO THE EAST S	TREAM. P ON THE W RAIL BEHINI DETOUR AN	est side of the st d abutment a. d tree protection	REAM. N ON THE WEST SIDE OF THE	STREAM.	Ш., _	PLAN
BUTMENT AND ASPHALT PAVEMENT ON CKFILL ABUTMENT B AND PLACE RIPRAF ROUGH TO DETERMINE ACCESS FOR PR G THE ACCESS PATH. L PREFABRICATED TRUSS. PAVING OPERATIONS. NTING RIAN DETOUR AND TREE PROTECTION	ON THE EA	AST SIDE OF THE ST ED TRUSS. PERFORM	REAM. TREE PRUNING TO PREVENT	DAMAGE	ESTRIAN BRIDG UN PARK	OF TRAFFIC F
ID SEDIMENT CONTROL MEASURES.					-UBBER RUN PEDESTRIAN LUBBER RUN PARK PEDESTRIAN BRIDGE OVER LUB	MAINTENANCE C
AND TREE PROTECTION PLAN SHEET TREES TO REMAIN WITHIN CLOSE PR INSTALLATION OF THE BRIDGE, THE COUNTY FOR TREE PROTECTION AN CLUDED IN THE COST OF CONSTRUCT MAINTAIN PEDESTRIAN ACCESS AROUI JECT.	OXIMITY (5 SITE AND A D TREE PRU ION ACCESS	FEET FROM JOB SIT CCESS TO THE SITE INING. COST OF ADE 5 AND RESTORATION	E) SHALL BE FULLY PROTECTE WILL BE EVALUATED BY THE DITIONAL TREE PROTECTION A J.	ED AT ALL	LUB	MAIN
MAINTAIN A LAYER OF MULCH OVER TI DUCTED ON A WEEKLY BASIS. CONTRAC Y ARISE.					23-DPR-ITBPW-575 DESIGNED: BD	
TRUCTION OF TEMPORARY 6' MULCH PA COMPACTED. NO SEPARATE PAYMENT S UENCE OF CONSTRUCTION SHOWN FO DURING THE CORRECT TREE PLANTING	Shall be M R tree pla	ADE FOR THIS WORI NTING SHALL BE AD	Κ.		DRAWN: BD CHECKED: BCG PLOTTED: MARCH 7 20	23
	JEASONS.				SCALE:	
					o 10 GRAPHIC	

C121.1



GENERAL NOTES

WIDTH: 6'-0" FACE-TO-FACE OF RAILS.

SPAN LAYOUT: 46'-8" STEEL TRUSS SPAN.

CAPACITY: 90 PSF PEDESTRIAN LIVE LOAD AND 4,000 LBS VEHICULAR LIVE LOAD

DRAINAGE AREA: 1.46 SQ. MI.

SPECIFICATIONS:

CONSTRUCTION: VIRGINIA DEPARTMENT OF TRANSPORTATION ROAD AND BRIDGE SPECIFICATIONS, 2020.

DESIGN: AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 8TH EDITION, 2017.

LRFD GUIDE SPECIFICATIONS FOR THE DESIGN OF PEDESTRIAN BRIDGES, 2ND EDITION, 2009.

STANDARDS: VIRGINIA DEPARTMENT OF TRANSPORTATION ROAD AND BRIDGE STANDARDS, 2016; INCLUDING ALL CURRENT REVISIONS.

THESE PLANS ARE INCOMPLETE UNLESS ACCOMPANIED BY THE SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS.

SUPERSTRUCTURE FOR PEDESTRIAN BRIDGE SHALL BE DESIGNED, FABRICATED AND SUPPLIED BY THE TRUSS MANUFACTURER. SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL. FOR ADDTIONAL NOTES, SEE SHEET B001.2.

CONCRETE IN SUBSTRUCTURE SHALL BE CLASS A3 IN ACCORDANCE WITH SECTION 217 OF THE VDOT ROAD AND BRIDGE SPECIFICATIONS.

PERMEABILITY TESTING DOES NOT APPLY TO THIS PROJECT.

FOOTINGS SHALL BEAR ON FIRM MATERIAL WITH A MINIMUM NOMINAL BEARING **RESISTANCE OF 6.8 KSF.**

IF GEOTECHNICAL ENGINEER DETERMINES THAT UNDERCUT EXCAVATION IS REQUIRED TO ACHIEVE THE REQUIRED BEARING CAPACITY, THE COST OF UNDERCUT EXCAVATION SHALL BE MEASURED IN CY AND PAID FOR AT THE UNIT COST FOR STRUCTURAL EARTHWORK. THE COST OF FILLING COMPACTED VDOT 21A SHALL BE CONSIDERED INCIDENTAL AND WILL NOT BE MEASURED FOR PAYMENT.

DEFORMED REINFORCING BARS SHALL CONFORM TO ASTM A615, GRADE 60. ALL REINFORCING BAR DIMENSIONS ON THE DETAILED DRAWINGS ARE TO CENTERS OF BARS EXCEPT WHERE OTHERWISE NOTED AND ARE SUBJECT TO FABRICATION AND CONSTRUCTION TOLERANCES.

THE CONTRACTOR SHALL BACKFILL AREAS WITH APPROVED MATERIALS PER THE REQUIREMENTS OF THE VIRGINIA DEPARTMENT OF TRANSPORTATION. THE COST OF BACKFILL IS INCLUDED IN THE COST OF STRUCTURAL EXCAVATION.

PREFABRICATED STEEL TRUSS SHALL BE PAID ON A LUMP SUM BASIS, THE PRICE SHALL INCLUDE DESIGN, FABRICATION, DELIVERY, ERECTION, RUB RAILS, SAFETY RAILS, TOE PLATES, BEARING ASSEMBLIES, AND ANY ASSOCIATED FALSE WORK OR TEMPORARY

ALL COST ASSOCIATED WITH SITE ACCESS AND STAGING SHALL BE INCLUDED IN THE LUMP SUM BID PRICE FOR CONSTRUCTION ACCESS AND RESTORATION. THE LUMP SUM PRICE SHALL INCLUDE ALL COSTS FOR STORING EQUIPMENT AND MATERIALS, TEMPORARY GRADING, TEMPORARY WORK BRIDGE, AND RESTORING THE AREA TO ITS ORIGINAL CONDITION AFTER CONSTRUCTION IS COMPLETE.

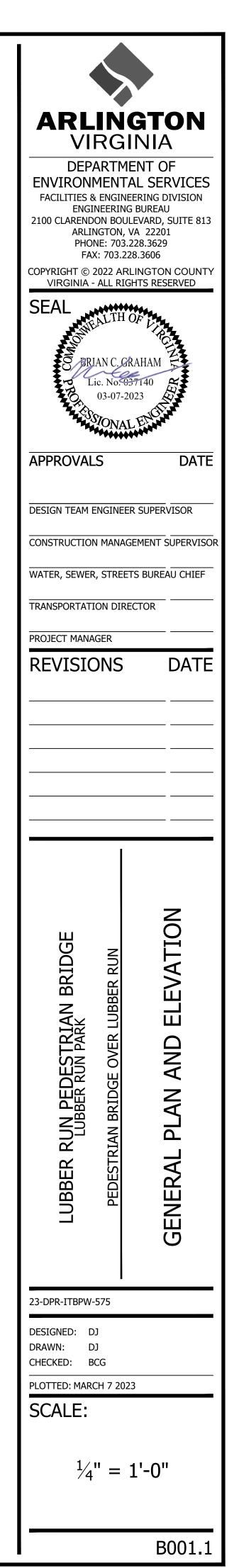
REMOVE EXISTING ABUTMENTS AND PORTION OF EXISTING WALL AS SHOWN. THIS COST SHALL BE INCLUDED IN THE PRICE BID FOR REMOVE EXISTING STRUCTURES.

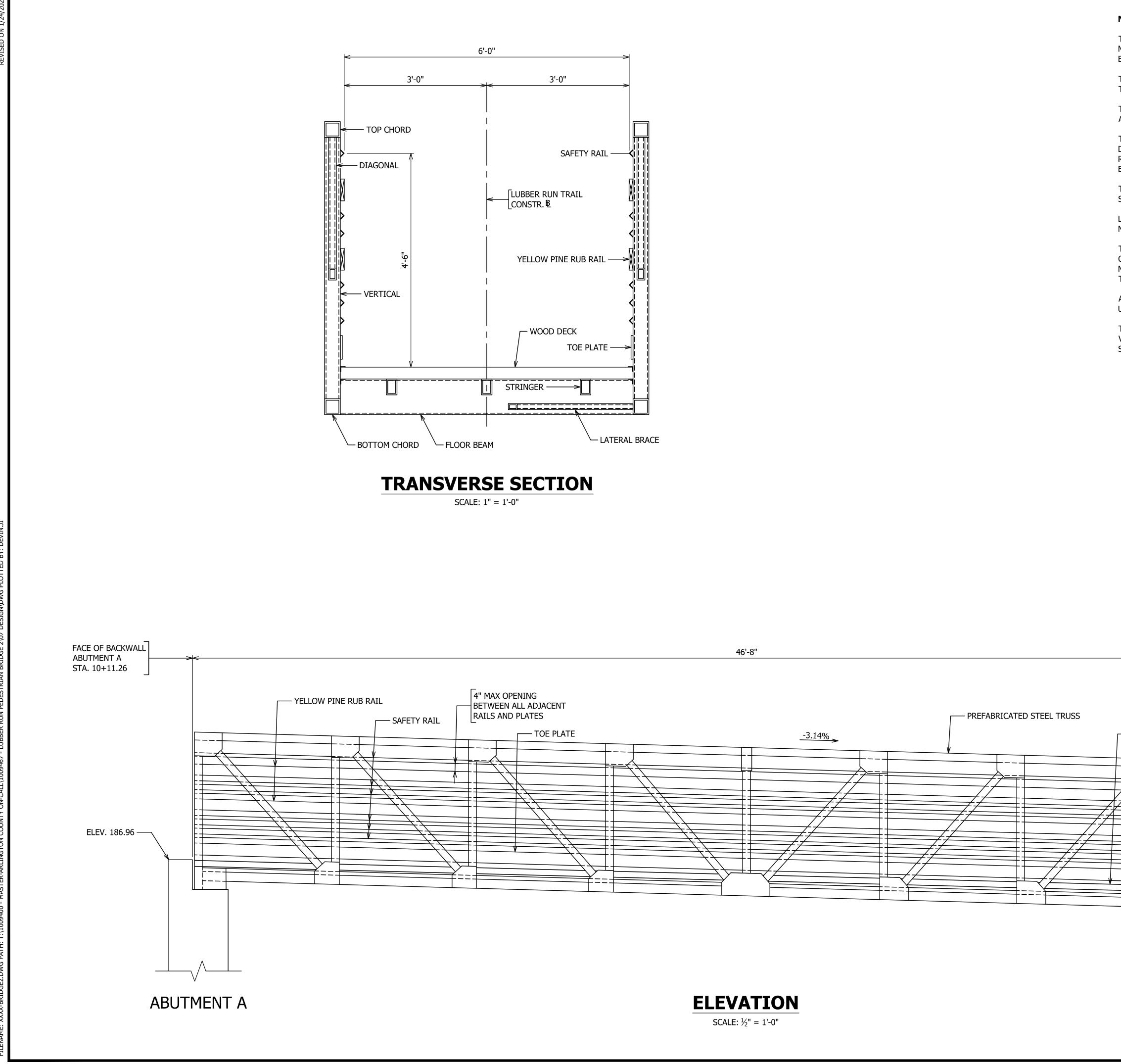
TEMPORARY WORK BRIDGE:

THE CONTRACTOR MAY CONSTRUCT A TEMPORARY WORK BRIDGE TO ACCESS EACH SIDE OF STREAM. THE TEMPORARY WORK BRIDGE SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER HOLDING A VALID LICENSE TO PRACTICE ENGINEERING IN THE COMMONWEALTH OF VIRGINIA. WORKING DRAWINGS OF THE WORK BRIDGE SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW 14 DAYS PRIOR TO INSTALLATION OF THE WORK BRIDGE. THE DRAWINGS SHALL INCLUDE PLAN AND PROFILE VIEW, AND DETAILS OF ALL STRUCTURAL MEMBERS AS DETERMINED BY THE CONTRACTOR AND HIS ENGINEER THE CONTRACTOR SHALL DETERMINE THE METHODS AND MEANS OF SUPPORT REQUIRED FOR THE LOADS IMPOSED BY CONSTRUCTION EQUIPMENT DURING THE CONSTRUCTION

THE LOCATION OF THE TEMPORARY WORK BRIDGE SHALL BE WITHIN THE LIMITS OF WORK SHOWN ON THE PLANS. THE CONTRACTOR SHALL USE A MATERIAL AND DESIGN FOR THE TEMPORARY WORK BRIDGE THAT DOES NOT IMPACT THE STREAM. ALL SUPPORTS SHALL BE OUTSIDE OF ORDINARY HIGH WATER. WORK BRIDGE MATERIALS AND SUPPORT STRUCTURES SHALL BE NON-ERODIBLE MATERIAL. EQUIPMENT SHALL NOT BE ALLOWED TO ENTER THE WATER TO CONSTRUCT THE WORK BRIDGE.

THE COST OF THE DESIGN, INSTALLATION, AND REMOVAL OF THE TEMPORARY WORK BRIDGE, WHEN NO LONGER REQUIRED, SHALL BE INCLUDED IN PRICE BID FOR CONSTRUCTION ACCESS AND RESTORATION. THIS PRICE SHALL BE FULL COMPENSATION FOR ALL LABOR, TOOLS, MATERIALS, EQUIPMENT, AND INCIDENTALS REQUIRED FOR THE SATISFACTORY COMPLETION OF THE WORK.







NOTES:

THE SUPERSTRUCTURE SHALL BE A STEEL TRUSS BRIDGE AND SHALL BE DESIGNED AND MANUFACTURED BY CONTECH ENGINEERED SOLUTIONS AT WWW.CONTECHES.COM OR EQUIVALENT AS APPROVED BY THE PROJECT OFFICER.

THE TRUSS STRUCTURE SHALL BE A TRUSS (SIMILAR TO THE CONTECH CONNECTOR TRUSS) AND INCLUDE A WOOD DECK CONSISTING OF SOUTHERN YELLOW PINE.

THE TRUSS FABRICATOR SHALL PROVIDE A PLATE ON THE BRIDGE WITH LOAD CAPACITY AND DATE OF MANUFACTURE.

THE CONTRACTOR SHALL COORDINATE WITH THE TRUSS MANUFACTURER FOR BEARING DETAILS AND SHALL PROVIDE BEARING AND ANCHOR BOLT DESIGN FOR THE ENGINEER'S REVIEW AND APPROVAL. ANCHOR BOLTS SHALL BE LOCATED A MINIMUM OF 6" FROM THE EDGE OF THE ABUTMENT SEAT AND HAVE A MINIMUM EMBEDMENT LENGTH OF 2'-0".

THE STRUCTURE DEPTH, MEASURED FROM TOP OF DECK TO THE LOWEST POINT ON THE STRUCTURE, SHALL BE A MAXIMUM OF 1'-3".

LOWER CHORD MEMBERS SHALL ALLOW FOR FREE DRAINAGE AND BE CONFIGURED AS TO NOT CAPTURE DEBRIS.

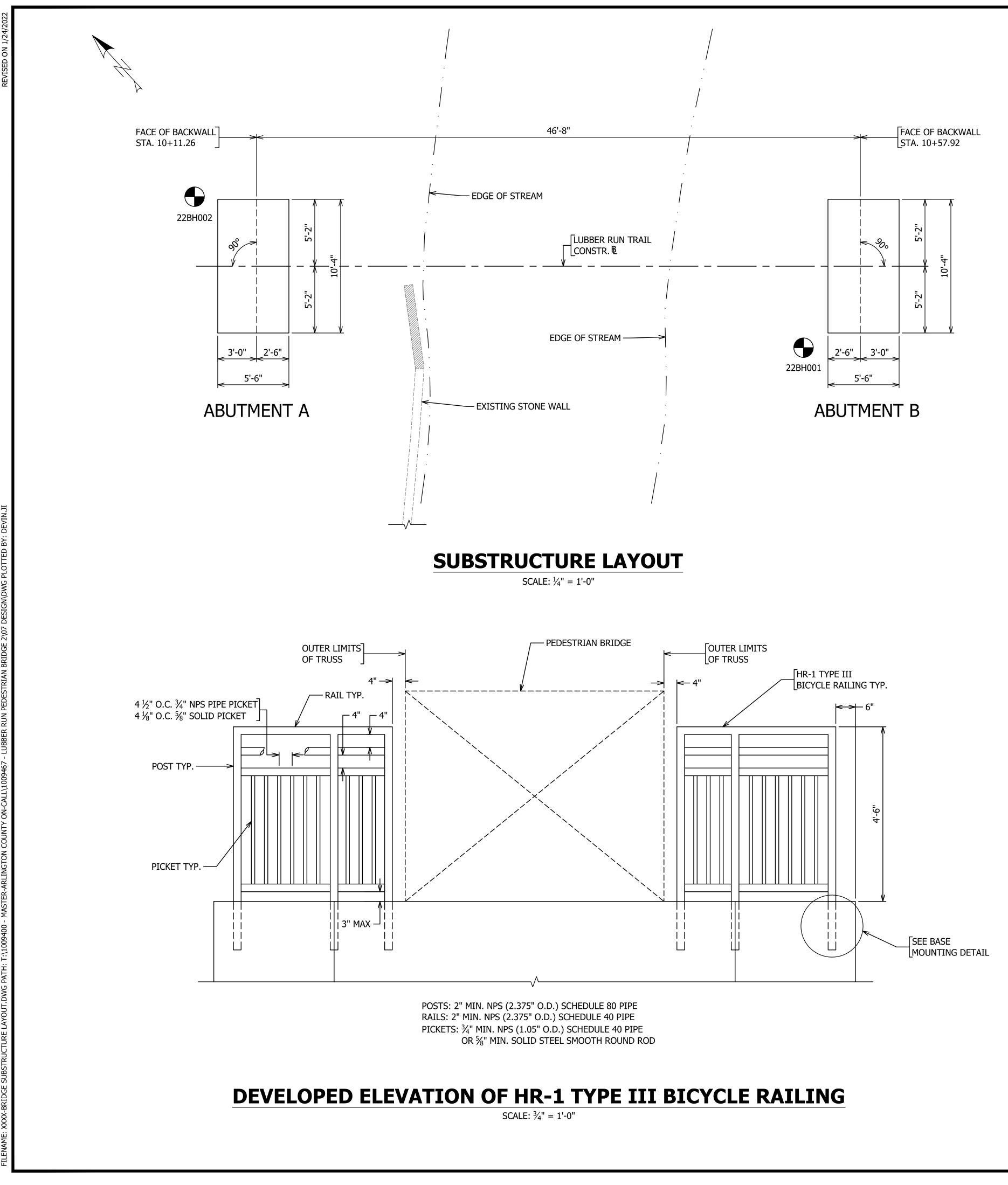
THE SUBSTRUCTURE IS DESIGNED AND SIZED FOR A TOTAL SUPERSTRUCTURE WEIGHT OF 13,000 LBS. SHOULD THE WEIGHT BE GREATER THAN THIS VALUE, THE TRUSS MANUFACTURER SHALL BRING IT TO THE ATTENTION OF THE ENGINEER TO RE-EVALUATE THE DESIGN OF THE SUBSTRUCTURE.

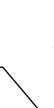
ALL PREFABRICATED TRUSS COMPONENTS SHALL BE UNPAINTED WEATHERING STEEL UNLESS NOTED OTHERWISE.

THE STEEL TRUSS AND BEARING ANCHORAGE SHALL BE DESIGNED TO RESIST A STREAM VELOCITY OF 13.5 FT/SEC, ASSUMING THE TRUSS IS OVERTOPPED DURING THE DESIGN STORM EVENT.

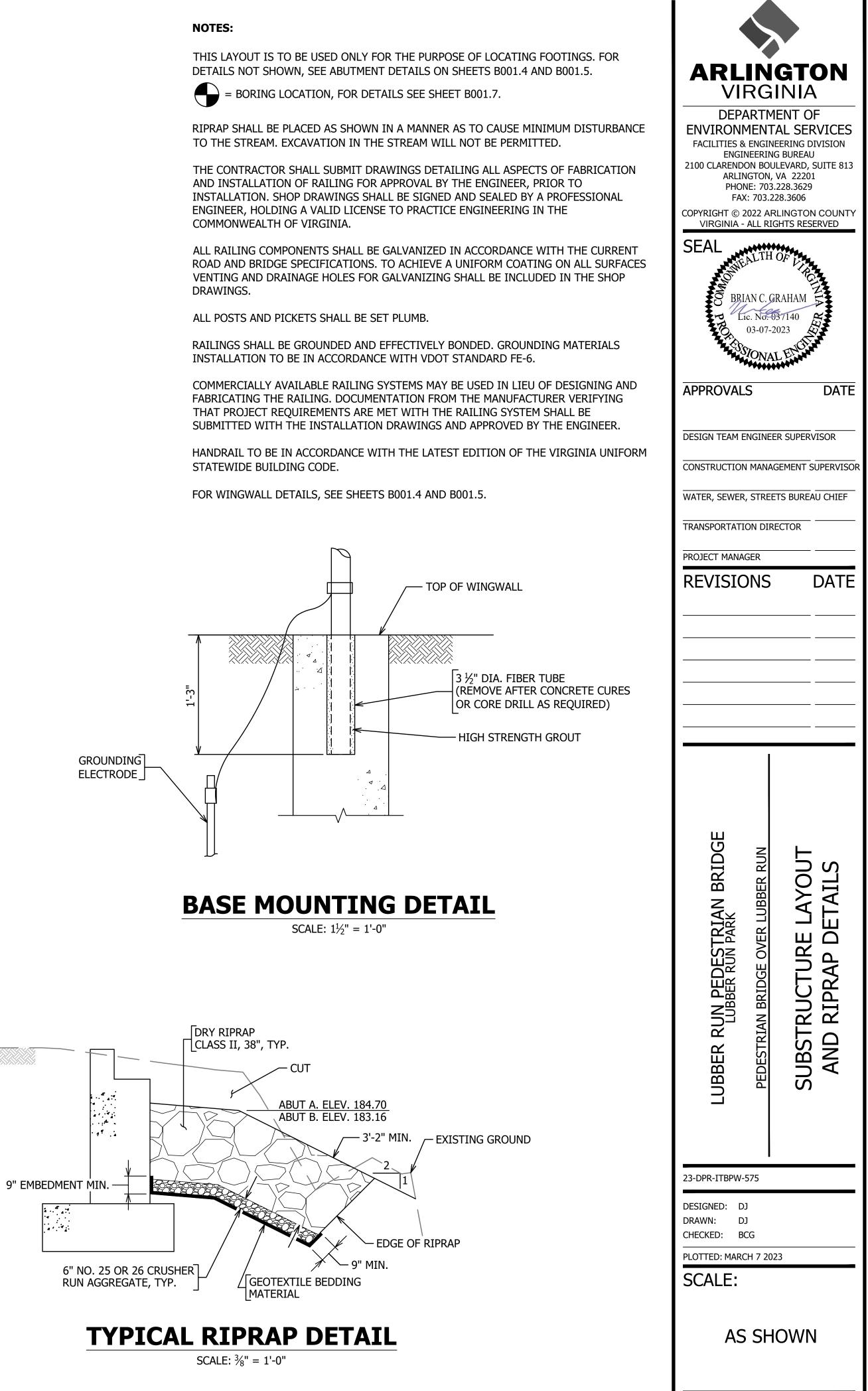
AS SHOWN

- TOP OF DECK	FACE OF BACKWALL ABUTMENT B STA. 10+57.92	LUBBER RUN PEDESTRIAN BRII LUBBER RUN PARK PEDESTRIAN BRIDGE OVER LUBBER RU DGE ELEVATION AND TY SECTION
	ELEV. 185.43	23-DPR-ITBPW-575 DESIGNED: DJ DRAWN: DJ
		CHECKED: BCG PLOTTED: MARCH 7 2023
	NT B	SCALE: AS SHOWN
		B001.2





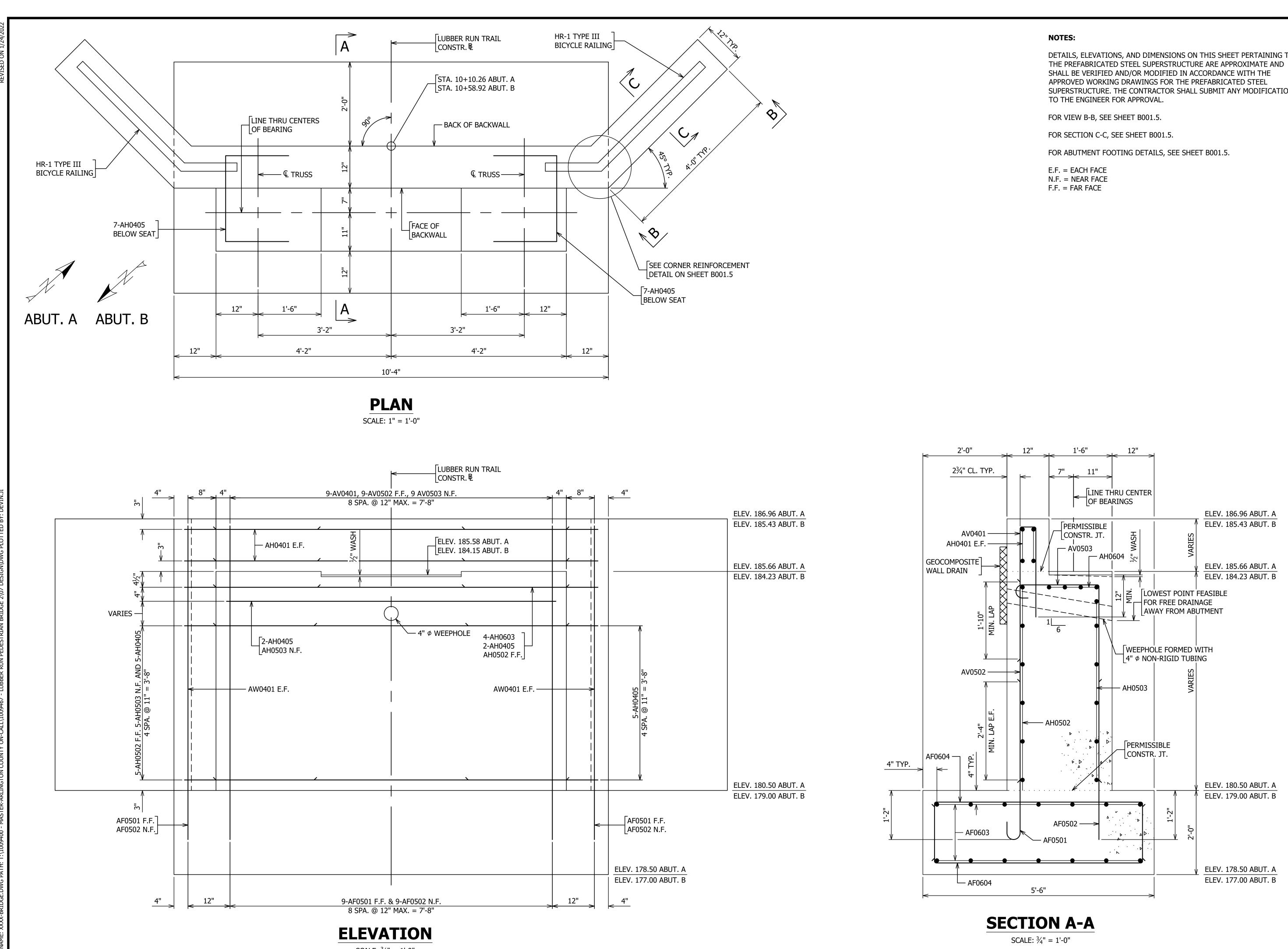






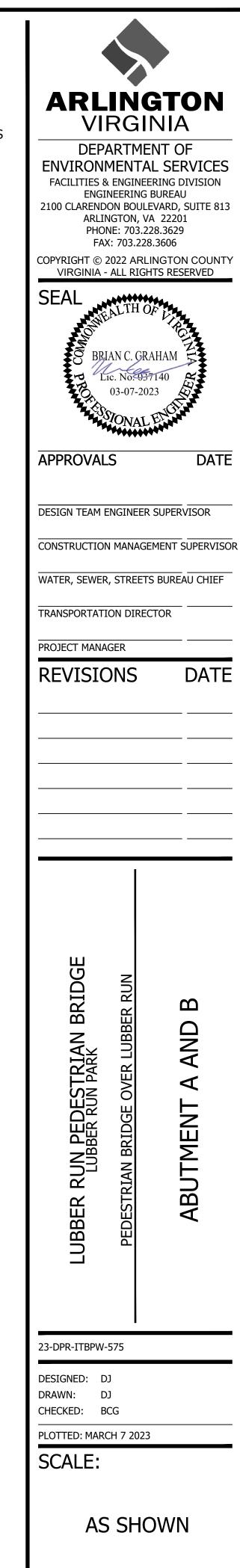
LUBBER RUN PEDESTRIAN BRIDGE

B001.3

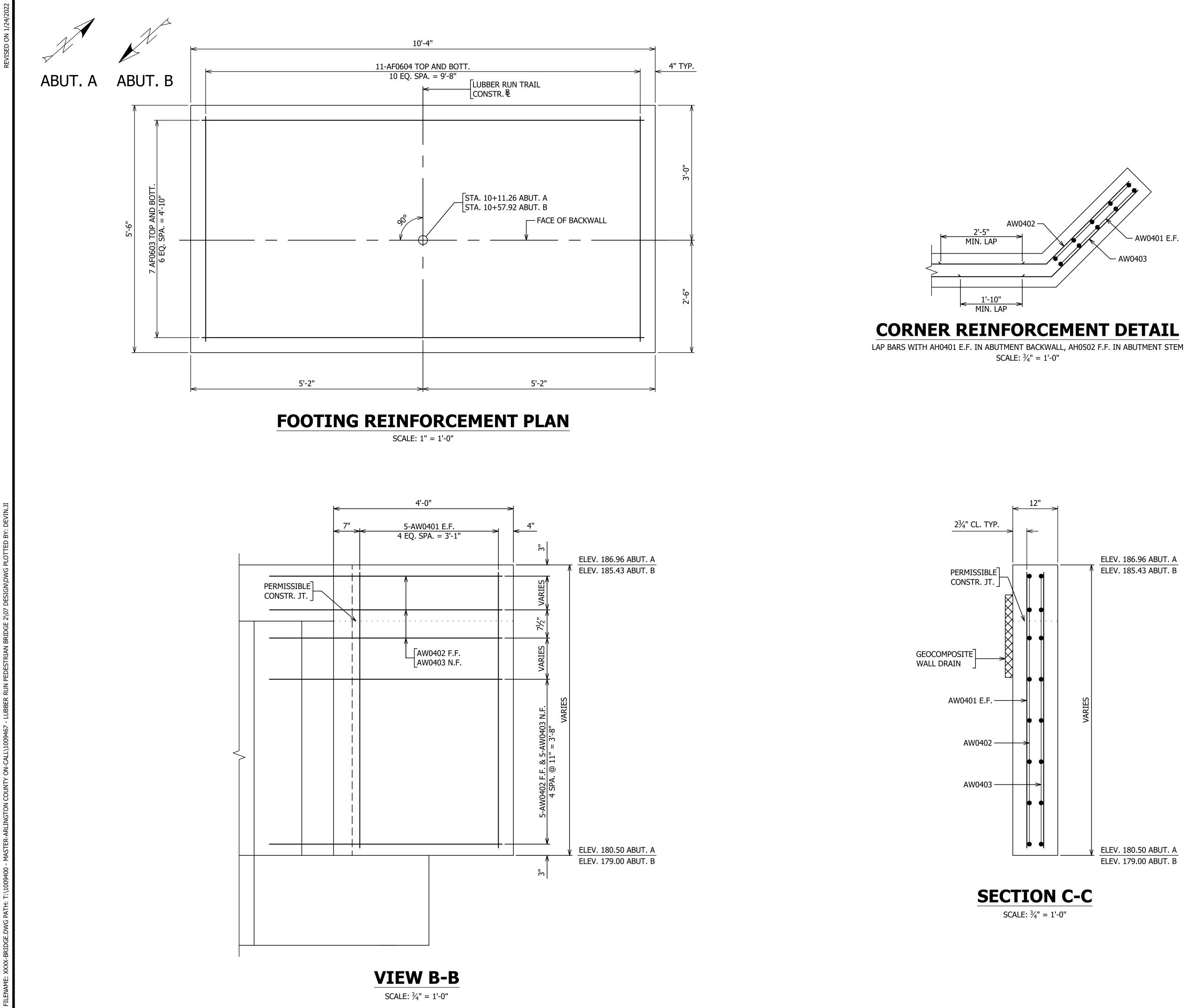


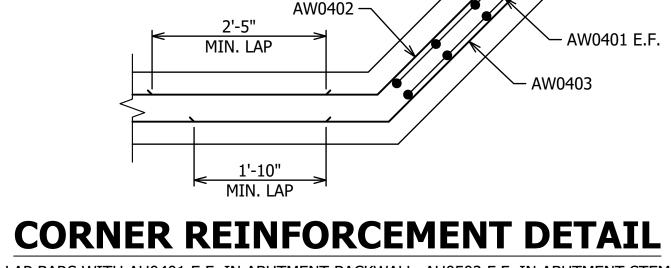
SCALE: ³/₄" = 1'-0"

DETAILS, ELEVATIONS, AND DIMENSIONS ON THIS SHEET PERTAINING TO SUPERSTRUCTURE. THE CONTRACTOR SHALL SUBMIT ANY MODIFICATIONS



B001.4





SCALE: ³/₄" = 1'-0"

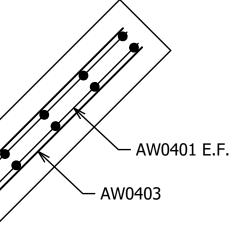
SCALE: ³/₄" = 1'-0"

NOTES:

FOR LOCATION OF VIEW B-B, SEE SHEET B001.4.

FOR LOCATION OF SECTION C-C, SEE SHEET B001.4.

E.F. = EACH FACEN.F. = NEAR FACE F.F. = FAR FACE



ELEV. 186.96 ABUT. A ELEV. 185.43 ABUT. B

ELEV. 180.50 ABUT. A ELEV. 179.00 ABUT. B

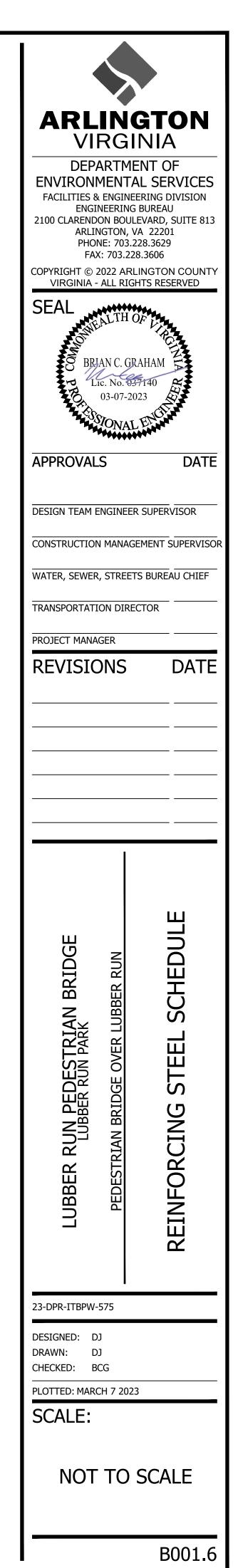
BRIAN C. GR Lic. No. 03 03-07-20	NIA NT OF L SERVICES ERING DIVISION BUREAU EVARD, SUITE 813 A 22201 28.3629 8.3606 INGTON COUNTY HTS RESERVED OF AHAM 7140 23
APPROVALS	DATE
DESIGN TEAM ENGINEER	R SUPERVISOR
CONSTRUCTION MANAGE	
WATER, SEWER, STREET	
PROJECT MANAGER	
REVISIONS	DATE
LUBBER RUN PEDESTRIAN BRIDGE LUBBER RUN PARK PEDESTRIAN BRIDGE OVER LUBBER RUN	ABUTMENT FOOTING PLAN AND DETAILS
LUBBER RUN PARK LUBBER RUN PARK LUBBER RUN PARK S2-DPR-ITBPW-575	ABUTMENT FOOTING PLAN AND DETAILS

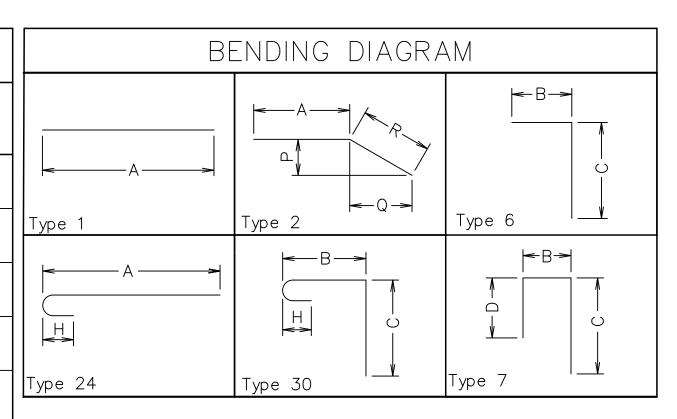
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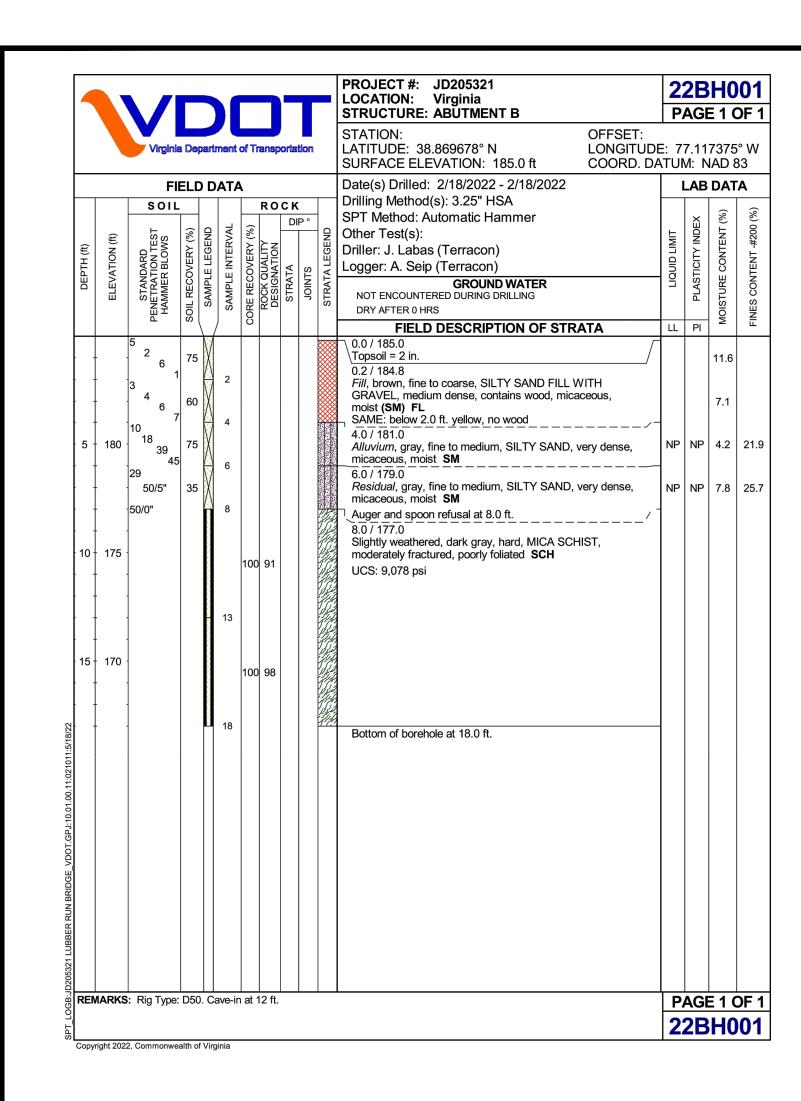
			REINFC	RCING	, STEEL SC	CHEDUL	E						DIMENSI	on ta	BLE							
MARK	NO.	BAR SIZE	PIN DIA.		LENGTH	WEIGHT	LOCATION	TYPE		В	С	D	E P	F Q	G R	Н	l S	JT	KU	L	V	N
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				ABUTMEN	T A – NEAT																	
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	6 4	5							7–10 7–10													
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AW0402 AW0403	16 16	4	3	6-07 6-05			Wingwall Wingwall	2	3-01 5/8 2-09				2-07 1/4	2-07 1/4	3-05 1/2 3-08							
TOTAL	WEIG	HT IN F	PRECEDING G	ROUP OF B	ARS	613																
				ABUTMEN	T B - FOOTING																	
AF0501 AF0502 AF0603	11 11 14	5 5 6	3 3/4	4-04 3-09 9-10		50 43 207	Footing Footing Footing	24 1 1	3-09 3-09 9-10							5						
AF0604	22	6		5-00		165	Footing		5-00													
	WEIG		PRECEDING G	ROUP OF B	ARS	465																
AV0401	9	4	3		T B — NEAT	34	Backwall	7		6 1/2	2-02	3-01										
AV0401 AV0502 AV0503	9 9 4	5 5 4	3 3/4	5-07 4-11 7-04			Backwall Stem Stem	30	4-11	2-00 1/2	4-10					5						
AH0401 AH0502 AH0503	6 6	5 5		9–10 9–10 7–10			Backwall Stem Stem		9–10 9–10 7–10													
AH0604 AH0405 AW0401	4 14 24	6 4 4	3	7-10 4-10 6-01		47 45 98	Stem Stem Wingwall	7	7–10 6–01	2-00 1/2	1-06	1-06										
AW0402 AW0403	16 16	4 4	3 3	6-07 6-05		70 68	Wingwall Wingwall	22	3-01 5/8 2-09				2-05 1/2 2-07 1/4	2-05 1/2 2-07 1/4	3-05 1/2 3-08							
ΤΟΤΑΙ	WEIG	HT IN I	PRECEDING G	ROUP OF B	ARS	613																
																						1

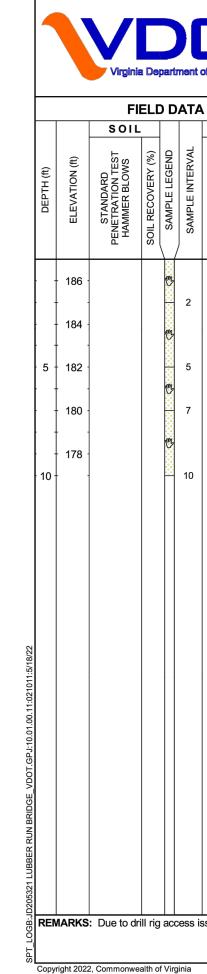
NOTES:

DIMENSIONS IN BENDING DIAGRAM ARE OUT-TO-OUT BARS WEIGHTS IN SCHEDULE ARE BASED ON DENSITY OF 490 LB/FT³









REVISED ON 1/24/202

			T		PROJECT #: JD205321 LOCATION: Virginia STRUCTURE: ABUTMENT A			H0 ∃10	
of	Transp	orta	tion		STATION:OFFSET:LATITUDE:38.869781° NLONGITUDSURFACE ELEVATION:187.0 ftCOORD. D				
٩					Date(s) Drilled: 2/18/2022 - 2/18/2022		LAB	DAT	Α
	RO				Drilling Method(s): Test Pit				(%)
	CONE RECOVENT (%) ROCK QUALITY DESIGNATION			STRATA LEGEND	SPT Method: Other Test(s): Driller: J. Labas (Terracon) Logger: A. Seip (Terracon) GROUND WATER NOT ENCOUNTERED DURING DRILLING		PLASTICITY INDEX	MOISTURE CONTENT (%)	FINES CONTENT -#200 (%)
				****	FIELD DESCRIPTION OF STRATA	LL	PI		
					 Fill, brown, fine to coarse, SILTY SAND FILL WITH GRAVEL, micaceous, moist (SM) FL 2.0 / 185.0 Alluvium, brown, fine to coarse, SILTY SAND FILL WITH GRAVEL, micaceous, moist SM 5.0 / 182.0 Residual, gray, fine to medium, POORLY GRADED SAND WITH SILT, micaceous, moist SP-SM Bottom of embankment at 10.0 ft. 	_ NP	NP	11.0	6.8
					mont was compled to determine the strate				
35	นธร, เก	e cu		ivalii	kment was sampled to determine the strata.			≡10 H0	

THE SUBSURFACE INFORMATION SHOWN ON THE BORING LOGS IN THESE PLANS WAS OBTAINED WITH REASONABLE CARE AND RECORDED IN GOOD FAITH SOLELY FOR USE BY THE COUNTY IN ESTABLISHING DESIGN CONTROLS FOR THE PROJECT. THE COUNTY HAS NO REASON TO SUSPECT THAT SUCH INFORMATION IS NOT REASONABLY ACCURATE AS AN APPROXIMATE INDICATION OF THE COUNTY DOES NOT IN ANY WAY WARRANT OR GUARANTEE THAT SUCH DATA CAN BE PROJECTED AS INDICATIVE OF CONDITIONS BEYOND THE LIMITS OF THE BORING SHOWN; AND ANY SUCH PROJECTIONS BY BIDDERS ARE PURELY INTERPRETIVE AND ALTOGETHER SPECULATIVE. FURTHER, THE COUNTY DOES NOT IN ANY WAY GUARANTEE, EITHER EXPRESSLY OR BY IMPLICATION, THE SUFFICIENCY OF THE INFORMATION FOR BID PURPOSES.

ARLING	
DEPARTMEN ENVIRONMENTAL FACILITIES & ENGINEER ENGINEERING B 2100 CLARENDON BOULEV ARLINGTON, VA PHONE: 703.228 FAX: 703.228.3	SERVICES ING DIVISION UREAU /ARD, SUITE 813 22201 3.3629 3606
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APPROVALS	DATE
	DATE
DESIGN TEAM ENGINEER S	SUPERVISOR
CONSTRUCTION MANAGEM	1ent Supervisor
WATER, SEWER, STREETS	BUREAU CHIEF
TRANSPORTATION DIRECT	OR
PROJECT MANAGER	DATE
KEVISIONS	DATE
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LUBBER RUN PEDESTRIAN BRIDGE LUBBER RUN PARK PEDESTRIAN BRIDGE OVER LUBBER RUN	ENGINEEF
LUBBER RUN LUB PEDESTRIAN B	ENGINEEF
BULL BULL BULL BULL BULL BEDESTRIAN 33-DPR-ITBPW-575	ENGINEEF
23-DPR-ITBPW-575 DESIGNED: DJ	ENGINEEF
23-DPR-ITBPW-575	ENGINEEF
23-DPR-ITBPW-575 DESIGNED: DJ DRAWN: DJ CHECKED: BCG PLOTTED: MARCH 7 2023	ENGINEER
23-DPR-ITBPW-575 DESIGNED: DJ DRAWN: DJ CHECKED: BCG	ENGINEER
23-DPR-ITBPW-575 DESIGNED: DJ DRAWN: DJ CHECKED: BCG PLOTTED: MARCH 7 2023	