# **3108 COLUMBIA PIKE DEMOLITION** ARLINGTON COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES 3108 COLUMBIA PIKE ARLINGTON, VA 22204 **ISSUED FOR BID** NOVEMBER 10, 2023



STREET VIEW

# ARCHITECTURAL

Dewberry Architects Inc.

8401 ARLINGTON BLVD FAIRFAX, VA 22031

703.698.9050

# CIVIL

Dewberry Engineers, Inc.

8401 ARLINGTON BLVD FAIRFAX, VA 22031

703.849.0100 703.849.0518 fax



SATELLITE/ MAP VIEW

# ELECTRICAL

Dewberry Engineers, Inc.

8401 ARLINGTON BLVD FAIRFAX, VA 22031

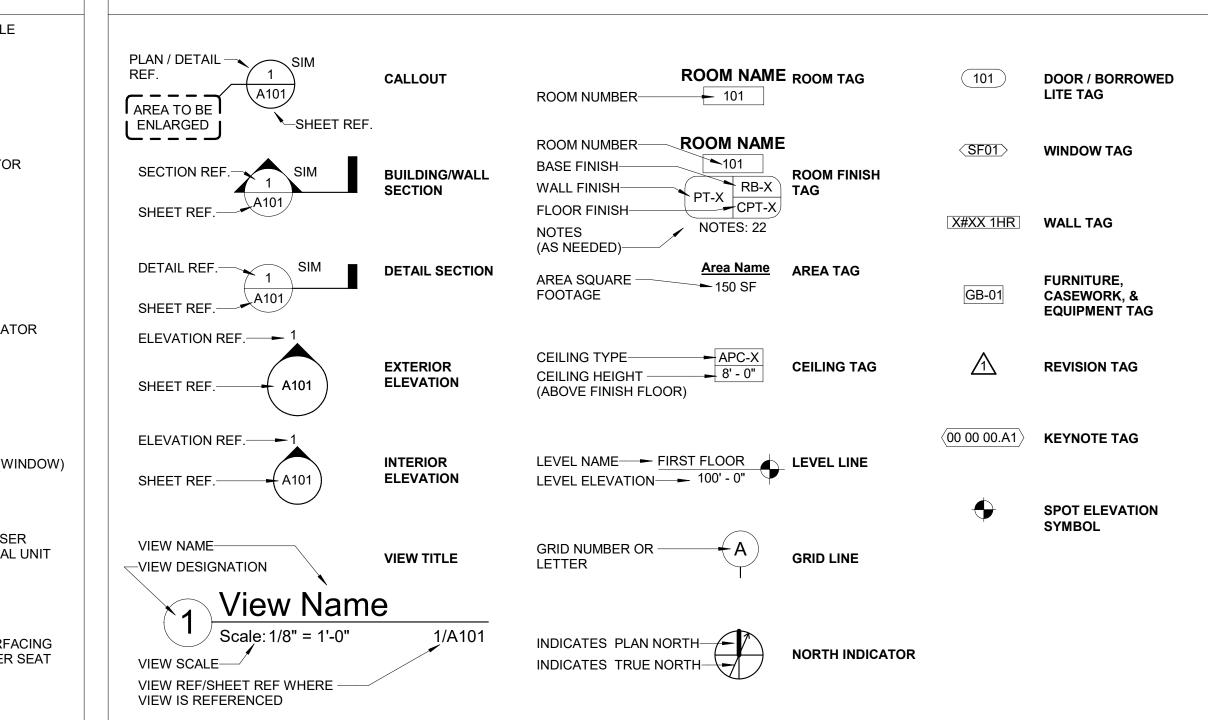
703.849.0100 703.849.0518 fax



AB ACST	ANCHOR BOLT ACOUSTIC(AL)	FLR FRP	FLOOR FIBER REINFORCED PLASTIC	PTR PVC	PAPER TOWEL RECEPTACLE POLYVINYL CHLORIDE
ADDL ADDN	ADDITIONAL ADDITION	FTG FURG C	FOOTING FURRING CHANNEL	PVG	PAVING
ADH ADJ	ADHESIVE ADJACENT, ADJOINING,	FURN FWC	FURNACE FABRIC WALLCOVERING	R	RISER, RADIUS, THERMAL RESISTANCE (R-VALUE)
AED	ADJUSTABLE AUTOMATED EXTERNAL	GA	GAGE, GAUGE	RB RCP	RESILIENT BASE REFLECTED CEILING PLAN
AFF	DEFIBRILLATOR ABOVE FINISH FLOOR	GALV GB	GALVANIZED GRAB BAR	RD REF	ROOF DRAIN, ROAD REFERENCE, REFRIGERATOR
ALT ALUM	ALTERNATE	GFRC	GLASS-FIBER REINFORCED	REINF	REINFORCE
NCH	ALUMINUM ANCHOR	GL	CONCRETE GLASS	REQD RF	REQUIRED RESILIENT FLOORING
NOD P	ANODIZE(D) ACCESS PANEL	GL BLK GLZ CMU	GLASS BLOCK GLAZED CONCRETE MASONRY UNIT	RFG RFM	ROOFING REMOVABLE FLOOR MAT
PC PPROX	ACOUSTICAL PANEL CEILING APPROXIMATE	GRFG GT	GLASS-FIBER REINFORCED GYPSUM GROUT	RH RO	RIGHT HAND ROUGH OPENING
PH ITO	ASPHALT AUTOMATIC	GWH GYP BD	GAS FIRED WATER HEATER GYPSUM WALL BOARD	RSF RST	RESINOUS FLOORING REINFORCING STEEL
VE WT	AVERAGE			RTF	RESILIENT TILE FLOORING
		H HB	HIGH, HATCH (ROOF) HOSE BIB	RV	ROOF VENT, ROOF VENTILATOR
SHT	BALANCE SHEET BRICK COLOR	HDNR HDW	HARDENER HARDWARE	SC SCHED	SEALED CONCRETE SCHEDULE
5	BABY CHANGING STATION BOARD	HDWD HM	HARDWOOD HOLLOW METAL	SCR SCWD	SHOWER CURTAIN ROD SOLID CORE WOOD DOOR
ŪM	BUMPER GUARD BITUMINOUS	HORIZ HR	HORIZONTAL HANDRAIL	SD SECT	SOAD DISPENSER SECTION
DG	BUILDING	HT	HEIGHT HEATING	SF	STOREFRONT
LKG OT	BLOCKING (WOOD) BOTTOM	HTG HVAC	HEATING, VENTILATING, AND AIR	SH SHT	SHINGLES, SINGLE HUNG (WINDO)
RDG RG	BRIDGING BEARING		CONDITIONING	SHTHG SHV	SHEATHING SHELVING
RK PV RKT	BRICK PAVERS BRACKET	ID	INSIDE DIAMETER, INSIDE DIMENSION	SLNT SND	SEALANT SANITARY NAPKIN DISPENSER
SMT WN	BASEMENT BETWEEN	IF INCL	INSIDE FACE INCLUDED	SNDU SOG	SANITARY NAPKIN DISPOSAL UNIT SLAB ON GRADE
JR	BUILT UP ROOFING	INSUL	INSULATION	SPCG	SPACING
AB	CABINET	INT INV	INTERIOR INVERT	SPEC SPKR	SPECIFICATION SPEAKER
3 C	CHALKBOARD CUBICLE CURTAIN	JT	JOINT	SQ SS	SQUARE SERVICE SINK , SOLID SURFACING
T Cl	CUBICLE CURTAIN TRACK CONTRACTOR FURNISHED	KD	KNOCKED DOWN	SST STD	STAINLESS STEEL, SHOWER SEAT STANDARD
MF	CONTRACTOR INSTALLED COLD-FORMED METAL FRAMING	KOP	KNOCK OUT PANEL	STL STL JST	STEEL STEEL JOIST
S I	CORNER GUARD	L		STL LNTL	STEEL LINTEL
P CONC	COAT HOOK CAST-IN-PLACE CONCRETE	LAM LAV	LAMINATE(D) LAVATORY	STL PL STL RF DK	STEEL PLATE STEEL ROOF DECK
J	CONTROL JOING, CONSTRUCTION JOINT	LH LINO	LEFT HAND LINOLEUM	STL TR STN	STEEL TRUSS STAIN
_G _R	CEILING CLEAR	LKR LL	LOCKER LIVE LOAD, LOW LEVEL	STRUCT SUSP	STRUCTURAL SUSPEND
IU ITR	CONCRETE MASONRY UNIT COUNTER	LLH LLV	LONG LEG HORIZONTAL LONG LEG VERTICAL	SV SWP	SHEET VINYL SHEET WALL PROTECTION
L	CLEAN OUT, CASED OPENING COLUMN	LT LVL	LIGHT	SYMM SYNTH	SYMMETRICAL SYNTHETIC
OMB	COMBINATION, COMBINED	LVR	LOUVER		
)MP )MPT	COMPRESSIBLE COMPARTMENT	MAS	MASONRY	T T&G	TILE, TREAD TONGUE AND GROOVE
NC NC CTG	CONCRETE CONCRETE COATING	MATL MAX	MATERIAL MAXIMUM	T/S TB	TUB/SHOWER TOWEL BAR, TACKBOARD
ND NT	CONDITION CONTINUOUS	MB MBH	MARKERBOARD MOB/BROOM HOLDER	TC TD	TOILET COMPARTMENT TRENCH DRAIN
NTR RR	CONTRACTOR CORRIDOR	MECH MED	MECHANICAL MEDIUM	TER THK	TERRAZZO
RS	COMPRESSIBLE	MEZZ	MEZZANINE	ТОВ	TOP OF BEAM
Г	CARPET CLOSET ROD	MFR MH	MANUFACTURER MANHOLE	TOC TOF	TOP OF CONCRETE, TOP OF CURB TOP OF FOOTING
L S	CRASH RAIL COLD-ROLLED STEEL	MI MIN	MIRROR MINIMUM, MINUTE	TOM TOS	TOP OF MASONRY TOP OF SLAB, TOP OF STEEL
R JH	CENTER(S) CABINET UNIT HEATER	MISC MO	MISCELLANEOUS MASONRY OPENING	TOW TPH	TOP OF WALL TOILET PAPER HOLDER
JV	CABINET UNIT VENTILATOR	MOD	MODEL, MODULE, MODULAR	TR TS	TOWEL RACK
N		MSB MT	MOP SERVICE BASIN MOUNT		TUBE STEEL, TRANSITION STRIP
	DEEP, DEPTH, PENNY NAIL DISPLAY CASE	MTL	METAL	UNO	UNLESS NOTED OTHERWISE
) T TN	DETAIL DETENTION	NDU NIC	NEEDLE DISPOSAL UNIT NOT IN CONTRACT, NOISE ISOLATION	VCT VERT	VINYL COMPOSITION TILE VERTICAL
F	DRINKING FOUNTAIN DIAMETER	NO	CLASS NUMBER	VIF VWC	VERIFY IN FIELD VINYL WALL COVERING
Μ	DIMENSION DOWN	NOM NTS	NOMDER NOMINAL NOT TO SCALE	W	
	DECORATIVE PANEL			WC	WIDE, WEST WALL COVERING
R S	DOOR DOWNSPOUT	OA OC	OVERALL ON CENTER	WD WDW	WOOD, WOOD DOOR WINDOW
WG	DRAWING(S)	OD	OUTSIDE DIAMETER, OUTSIDE DIMENSION	WP WT	WALL PATTERN, WATERPROOFING WEIGHT, WINDOW TREATMENT
HD	ELECTRIC HAND DRYER EXPANSION JOINT	OF OFCI	OUTSIDE FACE OWNER FURNISHED CONTRACTOR	WWF	WELDED WIRE FABRIC
_	ELEVATION		INSTALLED		
.EC .EV	ELECTRIC, ELECTRICAL ELEVATOR	OFD OFOI	OVERFLOW DRAIN OWNER FURNISHED OWNER		
1BED 1ER	EMBEDMENT EMERGENCY	ОН	INSTALLED OVERHEAD		
MDY	ETHYLENE PROPYLENE DIENE MONOMER	OH DR OP	OVERHEAD DOOR OPERABLE PARTITION		
2 QUIP	EQUAL EQUIPMENT	OPH OPNG	OPPOSITE HAND OPENING		
6	EXPOSED STRUCTURE	OPP	OPPOSITE		
rr N	EXISTING TO REMAIN EACH WAY	OS	OVERFLOW SCUPPER		
VC VH	ELECTRIC WATER COOLER ELECTRIC WATER HEATER	PC	PORTLAND CEMENT, POINT OF CURVE, POLYCARBONATE		
XIST XP	EXISTING EXPANSION	PCC PERIM	PRECAST CONCRETE PERIMETER		
XT	EXTERIOR	PJ PL	PROJECTOR		
В		PLAS	PLATE, PLASTIC LAMINATE PLASTER		
D DTN	FLOOR DRAIN FOUNDATION	PLBG PLYWD	PLUMBING PLYWOOD		
E EC	FIRE EXTINGUISHER FIRE EXTINGUISHER CABINET	PS PSF	PROJECTION SCREEN POUNDS PER SQUARE FOOT		
F HC	FINISH FLOOR FIRE HOSE CABINET	PT PTD	PAINT PAPER TOWEL DISPENSER		
71.					
IN LASH	FINISH FLASHING	PTDR	PAPER TOWEL DISPENSER & RECEPTACLE		

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# STANDARD DETAILING SYMBOLS



# F CURB

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OOFING

#### PROJECT GENERAL NOTES

- . THE SCOPE OF THIS PROJECT IS FOR THE DEMOLITION OF THE EXISTING BUILDING STRUCTURE IN ITS ENTIRETY, INCLUDING ALL ABOVE AND BELOW GRADE CONSTRUCTION AND STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL SYSTEMS AND SITE WORK U.N.O.
- 2. EXISTING BUILDING TO BE DEMOLISHED IS 3 STORIES PLUS MEZZANINE AND BASEMENT 8. EXISTING CONDITIONS INFORMATION INDICATED IN THE CONTRACT DOCUMENTS
- IS BASED ON EXISTING DOCUMENTATION AND FIELD OBSERVATIONS, BUT IS NOT A WARRANTY OF EXISTING CONDITIONS AT THE TIME OF CONSTRUCTION.
- . THE CONTRACTOR SHALL INVESTIGATE AND VERIFY ALL EXISTING CONDITIONS AND TAKE FIELD MEASUREMENTS AND SHALL CAREFULLY COMPARE SUCH FIELD MEASUREMENTS, CONDITIONS, AND OTHER INFORMATION KNOWN TO THE CONTRACTOR WITH THE CONTRACT DOCUMENTS BEFORE PROCEEDING WITH THE WORK. IMMEDIATELY NOTIFY THE ARCHITECT IN WRITING OF ANY DISCREPANCIES.
- . ALL REMOVALS AND SALVAGE, UNLESS SPECIFICALLY NOTES OR REQUESTED BY THE OWNER SHALL BECOME THE PROPERTY OF THE CONTRACTOR. . HAZARDOUS MATERIALS HAVE BEEN IDENTIFIED ONSITE, INCLUDING BUT NOT
- LIMITED TO ASBESTOS CONTAINING MATERIALS AND LEAD-BASED PAINT. DEMOLITION SHALL FOLLOW RECOMMENDATIONS PUT FORTH IN THE "PRE-DEMOLITION LIMITED REGULATED HAZARDOUS MATERIALS SURVEY REPORT" DATED JUNE 6, 2022.
- REFER TO THE PROPERTY CONDITION REPORT DATED JANUARY 11, 2021 FOR ADDITIONAL INFORMATION ON THE EXISTING BUILDING ..

# SHEET INDEX

SHEET NO.

G-000

G-001

C-000

C-001

C-002

C-003

C-100

C-200

C-300

C-310

C-320

C-330

GENERAL

CIVIL

SHEET NAME

COVER INDEX CIVIL COVER SHEET GENERAL NOTES & LEGEND BOUNDARY AND TOPOGRAPHY SURVEY SITE DETAILS EXISTING CONDITIONS AND DEMO PLAN SITE PLAN GRADING AND UTILITY PLAN DRY UTILITY PLAN STORM SEWER PLAN, PROFILES, AND COMPUTATIONS DRAINAGE AREA MAPS

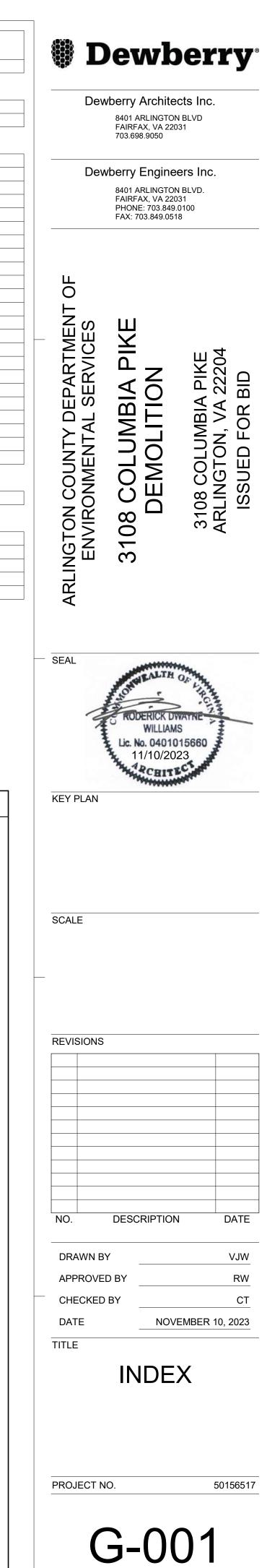
C-331	ADEQUATE OUTFALL ANALYSIS
C-332	WATER QUALITY COMPUTATIONS
C-333	WATER QUALITY COMPUTATIONS
C-334	STORMWATER DETAILS
C-335	POLLUTION PREVENTION PLAN
C-800	MAINTENANCE OF TRAFFIC PLAN
C-810	EROSION AND SEDIMENT CONTROL PHASE 1
C-820	EROSION AND SEDIMENT CONTROL PHASE 2
C-860	EROSION AND SEDIMENT CONTROL DETAILS
C-870	EROSION AND SEDIMENT CONTROL NARRATIVE
C-900	TREE INVENTORY AND PRESERVATION PLAN
C-901	LANDSCAPE PLAN
C-902	LANDSCAPE AND TREE PRESERVATION DETAILS

#### ARCHITECTURAL AD-111 DEMOLITION PLAN

ELECTRICAL	
E-001	ELECTRICAL COVER SHEET
E-002	ELECTRICAL NOTES
E-101	ELECTRICAL SITE PLAN
E-102	LIGHTING PHOTOMETRIC SITE PLAN
E-501	ELECTRICAL DETAILS



- 1. VISIT SITE AND VERIFY EXISTING CONDITIONS PRIOR TO BID SUBMISSION. DISCREPANCIES BETWEEN CONSTRUCTION INDICATED ON DRAWINGS AND ACTUAL SITE CONDITIONS SHALL BE BROUGHT TO ARCHITECT'S ATTENTION IMMEDIATELY IN WRITING.
- 2. DEMOLISHED ITEMS NOT INDICATED TO BE "DELIVERED TO OWNER" OR "TO BE RELOCATED" SHALL BE REMOVED FROM SITE AS SOON AS POSSIBLE UNLESS THEY ARE TO BE USED FOR REQUIRED PATCHING AND INFILLING OF EXISTING CONSTRUCTION THAT IS TO REMAIN. NO OTHER DEMOLISHED ITEMS SHALL BE STORED ON SITE.
- 3. DEMOLISHED ITEMS NOTED AS "DELIVER TO OWNER" OR "TO BE RELOCATED" SHALL BE REMOVED OR DISASSEMBLED IN SUCH A MANNER THAT WILL NOT DAMAGE THE ITEM AND PREVENT IT FROM BEING RELOCATED. REPAIR OR REPLACE SUCH ITEMS, IF DAMAGED. NOTIFY OWNER'S REPRESENTATIVE IMMEDIATELY IF DAMAGE HAS OCCURRED, AND SUBMIT A REPAIR SOLUTION TO ARCHITECT FOR REVIEW.
- . TEMPORARILY STORE ITEMS INDICATED AS "DELIVER TO THE OWNER" IN ONSITE LOCATION, DESIGNATED BY THE OWNER. OWNER SHALL MOVE ITEM(S), AS NECESSARY, TO NOT HINDER OR DELAY PERFORMANCE OF WORK IN AREA. 5. TEMPORARILY STORE ITEMS INDICATED AS "TO BE RELOCATED" IN LOCATION
- ONSITE AND PROTECT ITEMS FROM DAMAGE PRIOR TO INSTALLATION IN NEW LOCATION. 6. ITEMS INDICATED "TO REMAIN" THAT ARE DAMAGED DURING THE PERFORMANCE
- OF THE DEMOLITION WORK. SUCH DAMAGE SHALL BE REPORTED TO OWNER'S REPRESENTATIVE IMMEDIATELY, AND SUBMIT A REPAIR SOLUTION TO ARCHITECT FOR REVIEW.
- 7. COORDINATE DEMOLITION WORK WITH NEW CONSTRUCTION WORK IN EACH AREA OF DEMOLITION. EXISTING CONSTRUCTION IN AREAS ADJACENT TO DEMOLITION WORK SHALL BE PATCHED AND REPAIRED TO MATCH ORIGINAL EXISTING CONDITION AS REQUIRED TO PROVIDE FOR NEW CONSTRUCTION WORK IN AREA OF DEMOLITION. 8. ITEMS INDICATED TO BE REMOVED BY OWNER SHALL BE COMPLETED PRIOR TO
- COMMENCEMENT OF WORK. 9. AT LOCATIONS WHERE A PORTION OF EXISTING CONSTRUCTION IS TO BE REMOVED AND PREPARED FOR NEW INFILL CONSTRUCTION, OR AN OPENING IN A
- WALL, ROOF, OR FLOOR IS CREATED BY DEMOLITION WORK, CONSTRUCT INFILL WITH SAME MATERIALS AND METHOD OF CONSTRUCTION AS EXISTING ADJACENT CONSTRUCTION, UNLESS NOTED OTHERWISE. SEE ARCHITECTURAL DRAWINGS FOR INFILL CONSTRUCTION. INFILL CONSTRUCTION SHALL SMOOTHLY BUTT ADJACENT SURFACES AND MATCH THE FINISH, U.N.O.
- **10.** AT LOCATIONS WHERE AN ITEM IS TO BE REMOVED FROM A SURFACE THAT IS TO REMAIN, PATCH AND REPAIR EXISTING SURFACE TO MATCH EXISTING ADJACENT SURFACE, UNLESS INDICATED OTHERWISE.
- **11.** EXISTING ITEMS ANCHORED TO CONSTRUCTION THAT IS INDICATED TO BE DEMOLISHED SHALL BE CONSIDERED A PART OF DEMOLISHED CONSTRUCTION AND SHALL BE DEMOLISHED WITH THE INDICATED CONSTRUCTION, UNLESS NOTED OTHERWISE.
- **12.** RETAIN DEMOLISHED MATERIALS AS NEEDED FOR INFILLING OPENINGS IN EXISTING CONSTRUCTION SO THAT FINISH MATERIALS WILL PROPERLY ALIGN WITH EXISTING AND MATCH THE EXISTING FINISH. IF DEMOLISHED MATERIALS ARE NOT SALVAGEABLE, NOTIFY OWNER'S REPRESENTATIVE, SO THAT ALTERNATE SOLUTIONS MAY BE DETERMINED.
- **13.** IF EXISTING CONSTRUCTION IS REVEALED NOT CONSTRUCTED OR FINISHED IN A MANNER THAT MATCHES ADJACENT SURFACES, PATCH AREA AS NECESSARY WITH APPROPRIATE MATERIALS AND METHODS OF CONSTRUCTION TO MATCH EXISTING ADJACENT FINISH, OR PREPARE SURFACE FOR INSTALLATION OF NEW FINISH. CONTACT OWNER'S REPRESENTATIVE AS SOON AS POSSIBLE SO THAT CONCEALED CONSTRUCTION MAY BE IDENTIFIED AND SCOPE OF POSSIBLE ADDITIONAL WORK DETERMINED.
- 14. WHEN EXISTING SURFACE IS INDICATED TO BE "PATCHED AND REPAIRED" OR "PREPARED" TO RECEIVE NEW FINISH MATERIAL, PROVIDE A CONSTRUCTION SURFACE THAT IS CAPABLE OF RECEIVING NEW FINISH MATERIAL. 15. WHEN THE TERM 'ENTIRETY' IS DIRECTED TO A SPECIFIC ITEM OR ASSEMBLY, DEMOLISH AND REMOVE IDENTIFIED ITEM AND ASSOCIATED CONSTRUCTION PERTINENT TO THE ITEM, INCLUDING, BUT NOT LIMITED TO UNDERGROUND AND CONCEALED CONSTRUCTION, SUCH AS FOOTINGS AND FOUNDATIONS, SEWER, PLUMBING, AND ELECTRICAL WORK. THIS DEMOLITION WORK SHALL BE COORDINATED WITH THE CIVIL, STRUCTURAL, PLUMBING, MECHANICAL, ELECTRICAL, AND TECHNOLOGY DRAWINGS.



# ARLINGTON COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES 3108 COLUMBIA PIKE ARLINGTON, VIRGINIA 22204 USE PERMIT *#* UPER22-00069 SWM # 23-0138

DATUM NOTES:

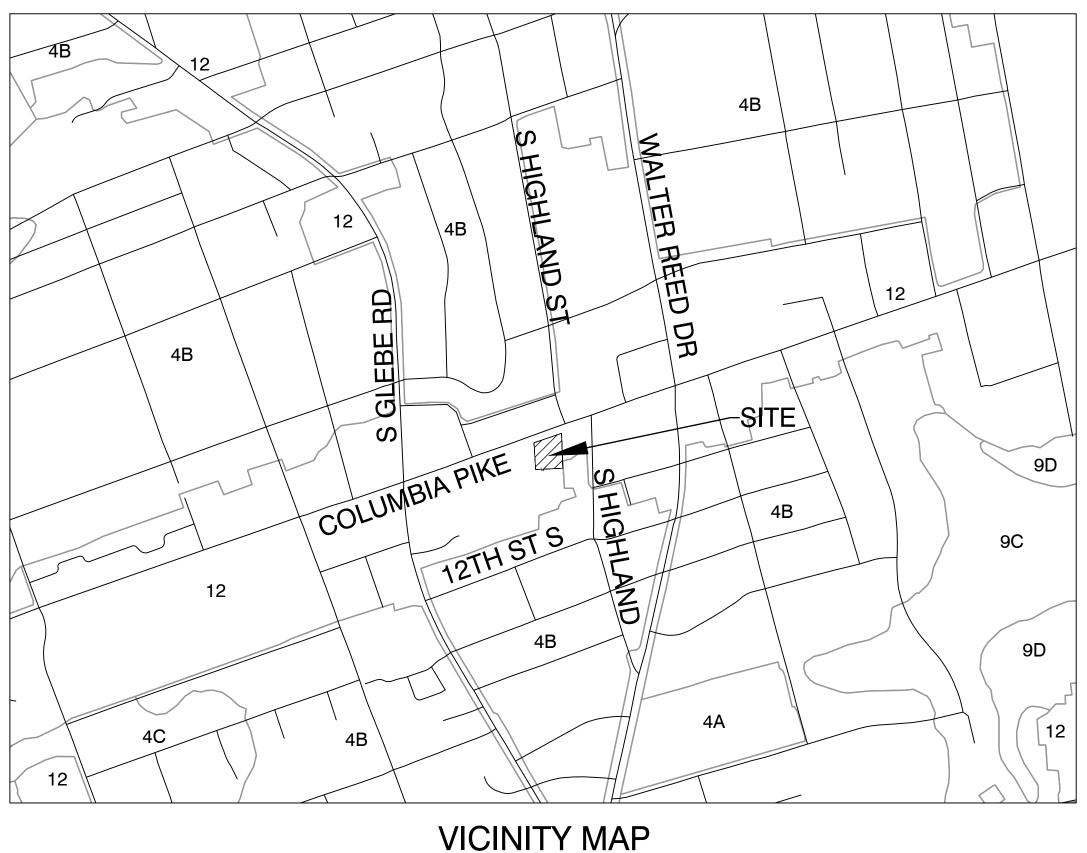
HORIZONTAL DATUM: THE SITE SHOWN HEREON IS REFERENCED TO THE VIRGINIA COORDINATE SYSTEM OF 1983 AS COMPUTED FROM FIELD RUN BOUNDARY AND HORIZONTAL SURVEY.

VERTICAL DATUM: THE SITE SHOWN HEREON IS REFERENCED TO THE NORTH AMERICA VERTICAL DATUM OF 1988 AS COMPUTED FROM A FIELD RUN VERTICAL CONTROL SURVEY.

# SHEET INDEX

SHEET #	DRAWING #	DESCRIPTION
1	C-000	CIVIL COVER SHEET
2	C-001	GENERAL NOTES & LEGEND
3	C-002	BOUNDARY AND TOPOGRAPHY SURVEY
<b>4</b>	C-003	SITE DETAILS
5	C-100	EXISTING CONDITIONS AND DEMO PLAN
<b>Č</b> 6	C-200	SITE PLAN
7	C-300	GRADING AND UTILITY PLAN
(8,	C-310	DRY UTILITY PLAN
9	C-320	STORM SEWER PLAN, PROFILES AND COMPUTATIONS
10	C-330	DRAINAGE AREA MAPS) 1
11	C-331	ADEQUATE OUTFALL ANALYSIS
12	C-332	WATER QUALITY COMPUTATIONS
<b>(</b> 13	C-333	WATER QUALITY COMPUTATIONS
14	C-334	STORMWATER DETAILS
15	C-335	POLLUTION PREVENTION PLAN
16	C-800	MAINTENANCE OF TRAFFIC PLAN
<b>5</b> 17	C-810	EROSION AND SEDIMENT CONTROL PHASE 1
<b>(</b> 18	C-820	EROSION AND SEDIMENT CONTROL PHASE 2
19	C-860	EROSION AND SEDIMENT CONTROL DETAILS 3 /1
20	C-870	EROSION AND SEDIMENT CONTROL NARRATIVE
21	C-900	TREE INVENTORY & PRESERVATION PLAN
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23	C-902	LANDSCAPE AND TREE PRESERVATION DETAILS
24	E-001	ELECTRICAL COVER SHEET
25	E-002	ELECTRICAL NOTES
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27	E-102	LIGHTING PHOTOMETRIC SITE PLAN
28	E-501	ELECTRICAL DETAILS

# **3108 COLUMBIA PIKE DEMOLITION**



SCALE 1"= 500'

						1784, 766,616,6616	
	ISSUED FOR BID 11-10-2023	STIMOTHY CHARLES CULLEITON	ARLINGTON COUNTY, VIRGINIA DEPARTMENT OF ENVIRONMENTAL SERVICES				
		Lic. No. 20112		3108 C	IVIL COVER SHEE COLUMBIA PIKE DEMOLIT 3108 COLUMBIA PIKE ON COUNTY, VIRGINIA	ION	
$\backslash$	1 01/09/24 ADDENDUM 1	DEWBERRY REVISIONS	SCALE: AS-	SHOWN	C-000	1 OF 28	
	NO.DATEDESCRIPTIONBYCOUNTY REVISIONSSUBMITTED DATE:DESIGNED: BWBPROJECT/FILE NO.8/4/2023CHECKED: TCCLDAP23-00146						
	SCALE IN FEET 1'' = 500' 1'' = 1 INCH VCS - 83						

#### OWNER

NAME: ADDRESS:	THE COUNTY BOARD OF ARLINGTON 2100 CLARENDON BLAVD, SUITE 300 ARLINGTON VA 22201
TELEPHONE:	(703) 228-3130
DEVELOPER	
NAME:	ARLINGTON COUNTY - DES FACILITIES DESIGN AND CONSTRUCTION
ADDRESS:	1400 N. UHLE STREET, SUITE 403 ARLINGTON VA 22201
TELEPHONE: EMAIL:	(703) 216-6555 VMAISLIN@ARLINGTONVA.US
ENGINEER	
NAME: ADDRESS:	DEWBERRY ENGINEERS INC. 8401 ARLINGTON BOULEVARD FAIRFAX VA 22031
TELEPHONE:	(703) 849-0100
CONTRACTOR	
NAME:	TO BE DETERMINED

NAME:	IO BE DETERMINED
ADDRESS:	TO BE DETERMINED
TELEPHONE:	TO BE DETERMINED



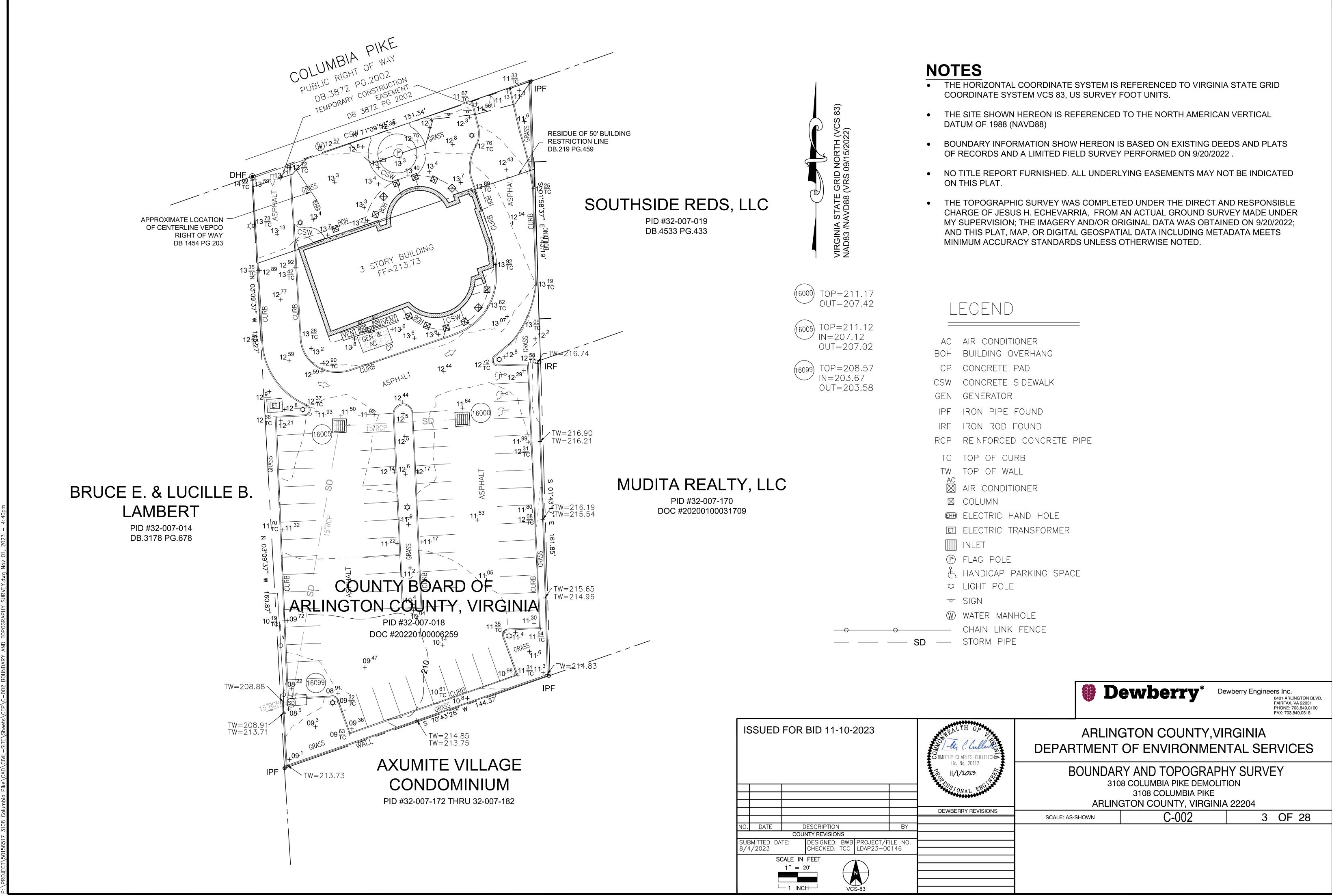
FAX: 703.849.0518

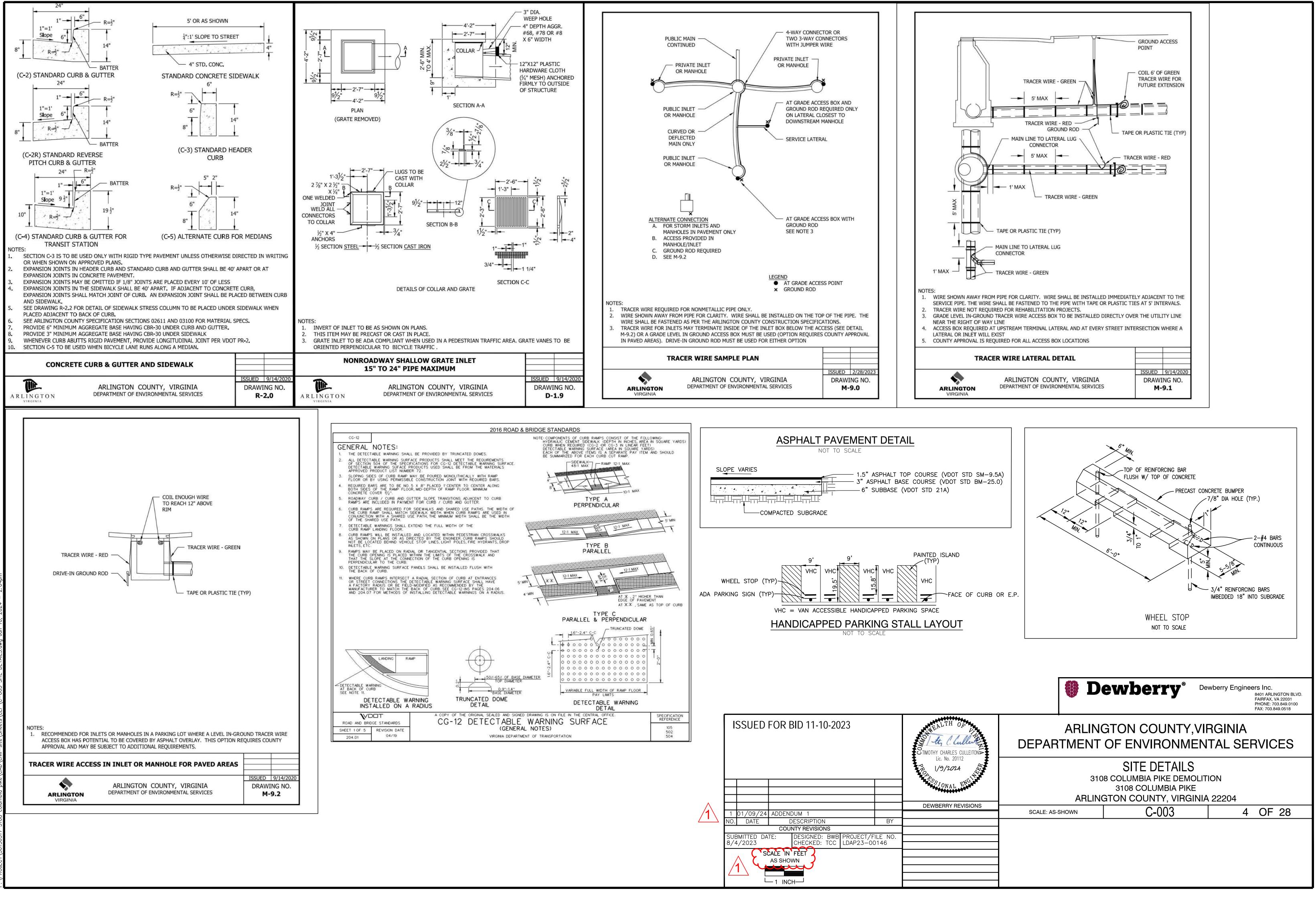
# <u>CIVIL LEGEND</u>

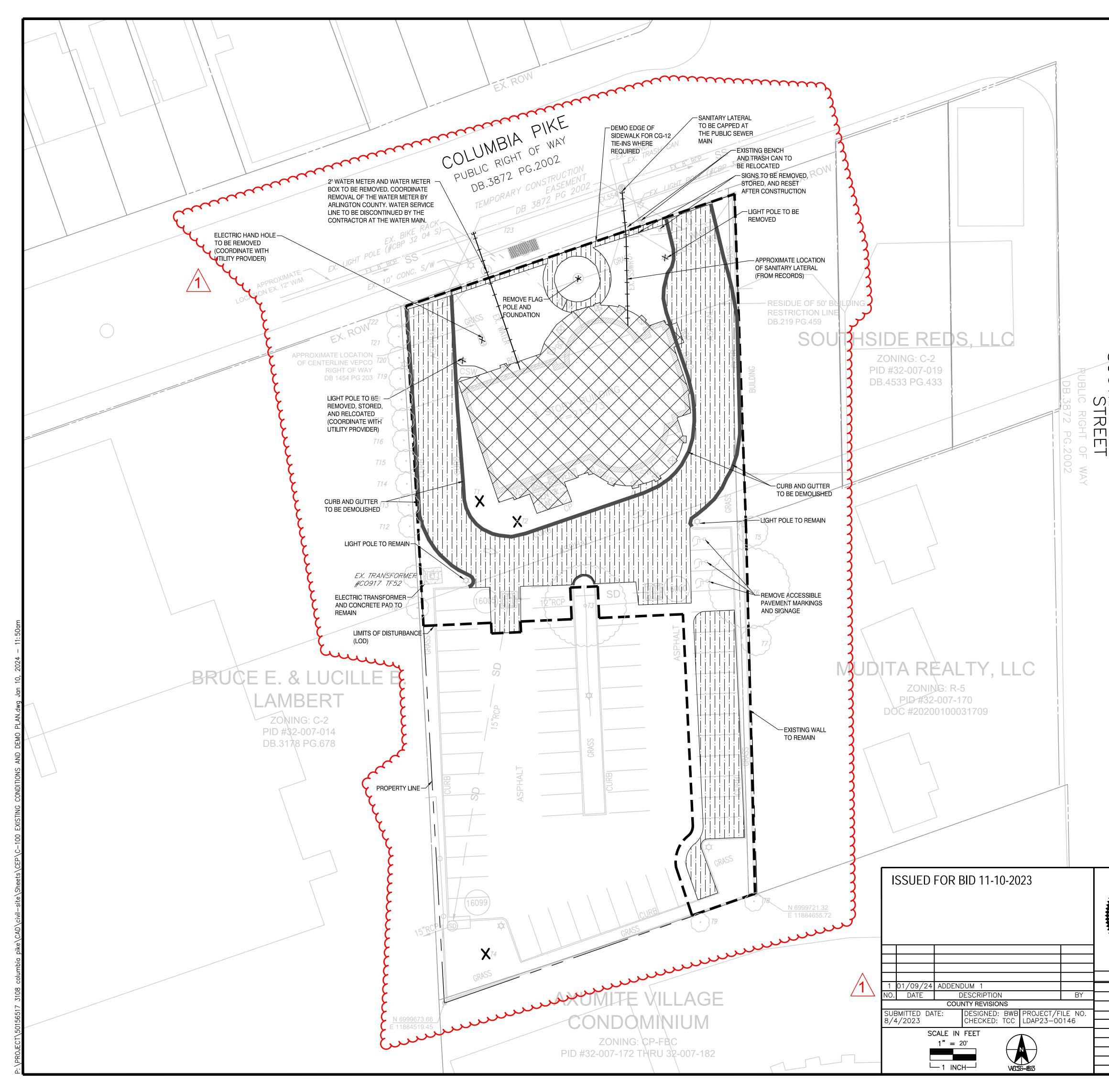
EXISTING INTERMEDIATE CONTOUR EXISTING CONTOUR INDEX	
FUTURE-EXISTING CONTOUR	
PROPOSED CONTOUR	
EXISTING CURB PROPOSED CURB & GUTTER	
PROPOSED C-3	C-3
EXISTING WATERLINE W/TEE	
PROPOSED WATERLINE W/TEE	w
EXISTING TELECOMM LINE	СОММСОММ
PROPOSED TELECOMM LINE	СОММ
EXISTING STORM SEWER	15" RCP (1)
PROPOSED STORM SEWER	15" RCP
EXISTING SANITARY SEWER	
PROPOSED SANITARY SEWER	
EXISTING ELECTRIC SERVICE	—— е —— е ——
PROPOSED ELECTRIC SERVICE	—— E ———
PROPOSED 1" ELECTRIC CONDUIT	PVC
EXISTING GAS LINE	G
PROPOSED GAS LINE	G
PROPERTY LINE	<u> </u>
EASEMENT LINE	
CENTER LINE	
LIMITS OF DISTURBANCE	
EXISTING SAFETY FENCE	
PROPOSED SAFETY FENCE	-00
EXISTING SPOT ELEVATIONS	×312.0
PROPOSED SPOT ELEVATION	+12 <sup><u>00</u></sup>
EXISTING TREE W/TRUNK DIAMETER	• 12'DIM.
EXISTING TREE W/DRIPLINE	
PROPOSED TREE	$\overline{(\cdot)}$
FLOW LINE OF SWALE	
EXISTING UTILITY POLE	$\bigotimes$
PROPOSED UTILITY POLE	
EXISTING FIRE HYDRANT	
PROPOSED FIRE HYDRANT	I⁺●──₽
EXISTING WATER VALVE	W
PROPOSED WATER VALVE	- W
WATER METER (SINGLE & DOUBLE)	$\bigcirc$ $\otimes$
EXISTING STREET SIGN	0
STREET SIGN	
PARKING INDICATOR INDICATES THE NUMBER OF PARKING SPACES	
TEST PIT	•
EXISTING LIGHT POLE	-ф-
PROPOSED STREET LIGHTING	-¢-
PROPOSED PLANTER DRAINS	*
EXISTING PARKING METER	PM
EXISTING FDC	
EXISTING BOLLARDS	
EXISTING GAS METER	(GM

NOTES:	ARLINGTON COUNTY			
1. THE PROPERTY DELINEATED IN THIS PLAN IS LOCATED IN ARLINGTON COUNTY REAL PROPERTY IDENTIFICATION MAP 32–007–018 AND IS ZONED S–3A.		VIRONMENTAL SERVICES		
2. THE BOUNDARY INFORMATION SHOWN HEREON BASED IS ON CURRENT FIELD RUN SURVEY PREPARED BY DEWBERRY, DATED SEPTEMBER 20, 2022.		ND WILL BE EDITED AS NEEDED TO REFLECT SPECIFIC		
3. THE SITE SHOWN HEREON IS REFERENCED TO THE VIRGINIA COORDINATE SYSTEM OF 1983 AS COMPUTED FROM A FIELD RUN BOUNDARY AND HORIZONTAL CONTROL SURVEY.	1. ALL CONSTRUCTION SHALL CONFOR AND SPECIFICATIONS.	M TO THE CURRENT ARLINGTON COUNTY DES STANDARDS		
4. THE SITE SHOWN HEREON IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 AS COMPUTED FROM A FIELD RUN VERTICAL CONTROL SURVEY.	ARLINGTON COUNTY DES STANDAR	SHALL REMOVE AND REPLACE, TO THE CURRENT DS AND SPECIFICATIONS, ANY EXISTING ENTRANCES, CURB THE FRONTAGE OF THE SITE IN POOR CONDITION, OR		
5. EROSION & SEDIMENT CONTROL FOR THE PROJECT AREA WILL BE PROVIDED IN ACCORDANCE WITH THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK.	DAMAGED DURING CONSTRUCTION.	SHALL BE RESPONSIBLE FOR REMOVING AND CLOSING, TO		
6. THE APPROVAL OF THESE PLANS SHALL IN NO WAY RELIEVE THE DEVELOPER, THE CONTRACTOR, OR THEIR AGENTS OF ANY LEGAL RESPONSIBILITY WHICH MAY BE REQUIRED BY THE CODE OF VIRGINIA OR ANY OTHER ORDINANCE ENACTED BY ARLINGTON COUNTY.	ARLINGTON COUNTY STANDARDS, A CONJUNCTION WITH THIS DEVELOF	ANY EXISTING ENTRANCES NOT BEING USED IN MENT.		
7. THIS PLAN COMPLIES WITH THE ARLINGTON COUNTY CONSTRUCTION STANDARDS AND SPECIFICATIONS, WHICH WENT INTO EFFECT SEPTEMBER 09, 2020. ALL UTILITY PERMITS ISSUED AFTER THIS DATE MUST COMPLY WITH THE CONSTRUCTION CRITERIA IN THE	WORK WITHIN THE RIGHT-OF-WAY 5. THERE MAY BE UNDERGROUND CO	SHALL OBTAIN ARLINGTON COUNTY PERMITS FOR ALL ALONG THE FRONTAGE OF THIS SITE.		
UPDATED MANUAL, INCLUDING ANY REVISIONS THAT MAY HAVE BEEN ISSUED. 8. THE ENGINEER SHALL NOT HAVE CONTROL OVER OR CHARGE OF AND SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR	THAT ARE DISTURBED DURING CO	E RESPONSIBLE FOR REPLACING ANY TRAFFIC CONTROLS NSTRUCTION. NOTIFY THE TRANSPORTATION ENGINEERING 228–3575, 24 HOURS PRIOR TO STARTING WORK.		
PROCEDURES OR FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK SHOWN ON THESE PLANS. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S SCHEDULES OR FAILURE TO CARRY OUT THE WORK. THE ENGINEER IS NOT RESPONSIBLE FOR ACTS OR OMISSIONS OF THE CONTRACTOR, SUBCONTRACTORS, OR THEIR AGENTS OR EMPLOYEES, OR OF ANY OTHER PERSONS PERFORMING PORTIONS OF THE WORK.	SIGNS, PARKING METERS OR ANY PERMISSION FROM THE TRANSPOR TRANSPORTATION ENGINEERING AT	SHALL NOT DISTURB OR REMOVE ANY TRAFFIC CONTROL OTHER TRAFFIC CONTROL DEVICE WITHOUT PRIOR TATION ENGINEERING & OPERATIONS BUREAU. CONTACT (703) 228–3575. SHALL OBTAIN A PERMIT FROM THE TRANSPORTATION		
9. THE DEVELOPER/BUILDER SHALL CONTACT ARLINGTON COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES (DES) TO DISCUSS UTILITY PERMIT REQUIREMENTS FOR	ENGINEERING & OPERATIONS BUR PUBLIC RIGHT OF WAY, OR ON SI	EAU, PRIOR TO PLACING ANY OBSTRUCTION WITHIN THE DEWALKS ALONG THE FRONTAGE OF THIS DEVELOPMENT.		
INSTALLATION OF WATER AND SEWER MAINS AND CERTIFICATION OF WATER AND SANITARY SEWER AVAILABILITY PRIOR TO ISSUANCE OF A BUILDING PERMIT. 10. NO CEMETERIES OR HISTORIC SITES ARE KNOWN TO EXIST WITHIN THE PROJECT LIMITS	THIS DEVELOPMENT SHALL BE CA 9. THE DEVELOPER OR CONTRACTOR	ST IRON. SHALL OBTAIN PERMITS FROM THE INSPECTION SERVICES		
11. NO RPA EXIST WITHIN THE PROJECT AREA PER ARLINGTON COUNTY'S GIS INFORMATION.	FACILITIES. FOR INFORMATION AND	ON, EXCAVATION OR CONSTRUCTION OF ON-SITE PERMIT REQUIREMENTS TELEPHONE (703) 228-3800 FOR THIS DEVELOPMENT, SHALL BE COORDINATED WITH		
12. NO FEMA 100 YEAR FLOODPLAIN EXIST WITHIN THE PROJECT AREA PER FEMA FIRM MAP 51013C0038C EFFECTIVE 08/19/2013	AND APPROVED BY THE DEPARTM (DPRCR). THIS COORDINATION SHA	ALL BE THE RESPONSIBILITY OF THE CONTRACTOR, THE DEVELOPER OR CONTRACTOR SHALL CONTACT PRCR		
13. CONTROLLED FILLS SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY AS DETERMINED BY METHOD "A" PER STANDARD PROCTOR AASHTO-T99, ASTM-D698, OR VTM-1 AS APPLICABLE. DENSITY SHALL BE CERTIFIED BY A REGISTERED PROFESSIONAL ENGINEER.	PLANT MATERIAL AND INSTALLATIO	IN ADVANCE TO SCHEDULE INSPECTION OF EXCAVATION, N. ALSO PRIOR TO REMOVING OR DISTURBING ANY PRCR FOR INFORMATION AND APPROVAL.		
14. ALL FINISHED GRADING, SEEDING, SODDING OR PAVING SHALL BE DONE IN SUCH A MANNER TO PRECLUDE THE PONDING OF WATER ON THE SITE.	UTILITY MARKING REQUIREME			
15. REFER TO THE GEOTECHNICAL ENGINEER FOR METHODS, MATERIALS AND DETAILS FOR CONSTRUCTION OF ALL EARTHWORK ACTIVITIES.	11. THE DEVELOPER OR CONTRACTOR SHALL NOTIFY "MISS UTILITY OF VIRGINIA" DIAL 811, 48 HOURS PRIOR TO THE START OF ANY EXCAVATION OR CONSTRUCTION, FOR THE MARKING OF UNDERGROUND UTILITIES.			
16. THE OWNER SHALL BE RESPONSIBLE FOR SECURING ANY & ALL FLOOD HAZARD USE, WETLAND, LAND DISTURBANCE & STORM WATER DISCHARGE PERMITS, AS APPLICABLE PRIOR TO CONSTRUCTION.		IREAU AT 703–228–3049 AT LEAST 4 WEEKS PRIOR TO NSIT IS AFFECTED OR IF THERE ARE ANY IMPACTS TO		
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HONORING ALL CONDITIONS OF SUCH PERMITS.	NOTE: ALL TEMPORARY & FINAL BI	JS TRAVEL LANES MUST BE MINIMUM 11' WIDE.		
18. WHEN DURING THE COURSE OF CONSTRUCTION, ANY OBJECT OF AN UNUSUAL NATURE IS ENCOUNTERED, THE CONTRACTOR SHALL CEASE THE WORK IN THAT AREA & IMMEDIATELY NOTIFY THE PROPER AUTHORITY, ARLINGTON COUNTY AND/OR THE ARCHITECT/ENGINEER.				
19. ANY RETAINING WALL 3FT. OR GREATER IN HEIGHT SHALL REQUIRE THE ISSUANCE OF A SEPARATE BUILDING PERMIT.				
UTILITY NOTES:				
<ol> <li>EXISTING WATER SERVICES MAY BE USED DURING CONSTRUCTION WITH PROPER NOTIFICATION. PRIOR TO FINAL ACCEPTANCE, ALL INACTIVE WATER SERVICES SHALL BE DISCONTINUED BY THE CONTRACTOR AT THE WATER MAIN. ARLINGTON COUNTY WILL REMOVE THE EXISTING WATER METER FROM THE METER BOX AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING THE REMAINING WATER METER BOX.</li> </ol>				
2. THE DISCONTINUATION OF WATER SERVICE AT THE WATER MAIN WILL NEED TO BE PERFORMED BY THE GENERAL CONTRACTOR.				
3. THE PERMANENT CAP OFF OF THE SANITARY LATERAL (SANITARY BUILDING CONNECTION) AT THE PUBLIC SEWER MAIN WILL NEED TO BE PERFORMED BY THE GENERAL CONTRACTOR. FIRST PERMIT TO OBTAIN WILL BE A PLUMBING PERMIT FOR THE SEWER CAP OFF. EXCAVATION RIGHT-OF-WAY PERMITS (EXCV AND TREX) WILL ALSO BE NEEDED WHEN PERFORMING THE PERMANENT SEWER CAP OFF IN THE STREET.				
			۹	
		Bewberry	Dewberry Engineers Inc. 8401 ARLINGTON BLVD. FAIRFAX, VA 22031 PHONE: 703.849.0100 FAX: 703.849.0518	
ISSUED FOR BID 11-10-2023	NEALTH OF	ARLINGTON COUNT	Y,VIRGINIA	
	STIMOTHY CHARLES CULLEITON	DEPARTMENT OF ENVIRON	,	
	Lic. No. 20112	GENERAL NOTES &		
	SSIONAL ENGLI	3108 COLUMBIA PIKE DE 3108 COLUMBIA F A PLINGTON COLINITY, VIE	PIKE	
	DEWBERRY REVISIONS	ARLINGTON COUNTY, VIF scale: as-shown C-001	RGINIA 22204 2 OF 28	
NO. DATE DESCRIPTION COUNTY REVISIONS	BY			
SUBMITTED DATE: DESIGNED: BWB PROJECT/F 8/4/2023 CHECKED: TCC LDAP23-00	0146			

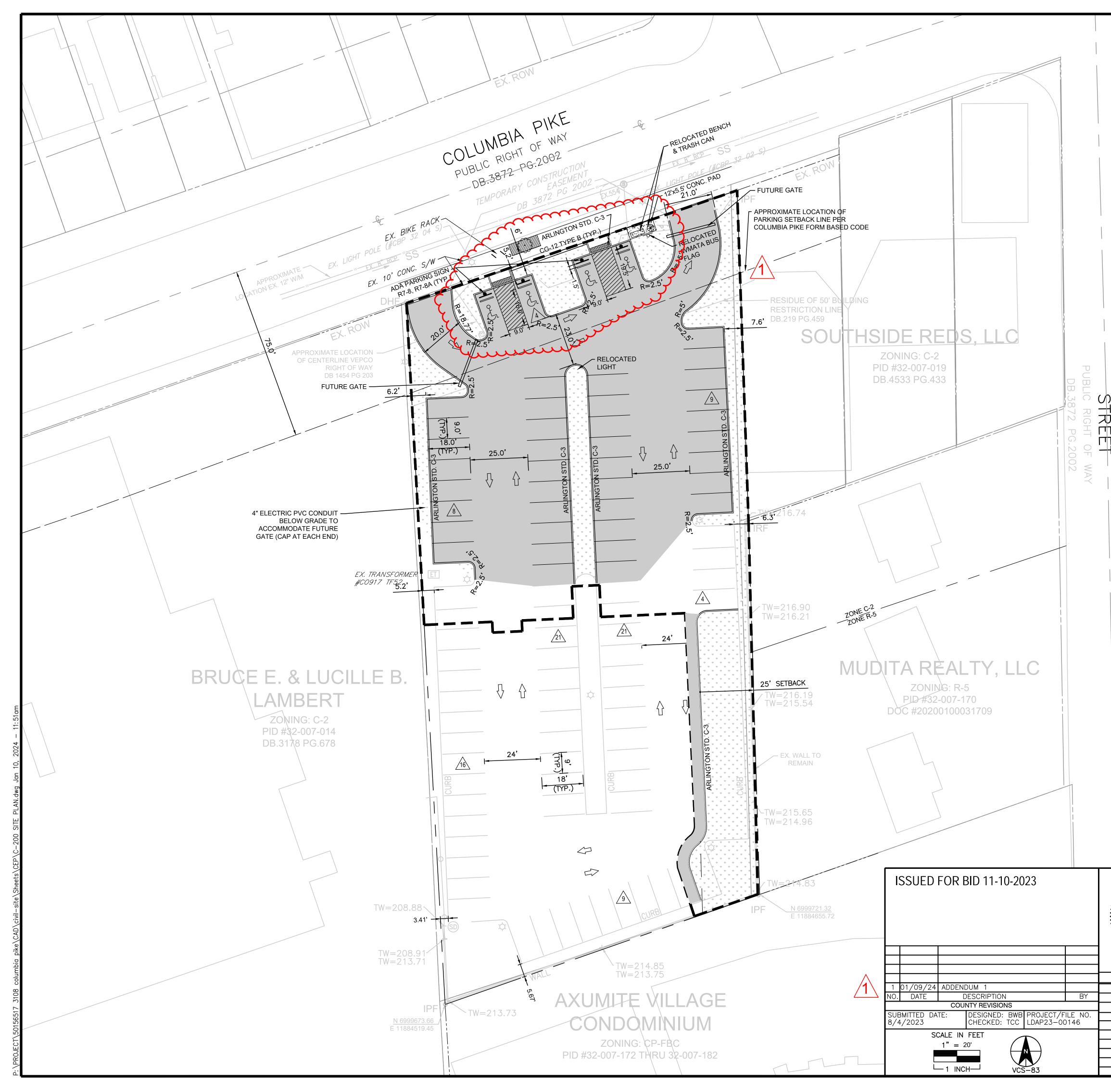
		INGTON COUNTY,	VIRGINIA – VIRONMENTAL SER		
LOCATED IN ARLINGTON COUNTY REAL 3 AND IS ZONED S—3A.	THE FO	OLLOWING GENERAL NOTES ARE F	REQUIRED ON DEVELOPMENT PLANS	WITH FRONTAGE	
I BASED IS ON CURRENT FIELD RUN SURVEY R 20, 2022.		ARLINGTON COUNTY STREETS AN LAN CONDITIONS.	ND WILL BE EDITED AS NEEDED TO	REFLECT SPECIFIC	
D THE VIRGINIA COORDINATE SYSTEM OF 1983 RY AND HORIZONTAL CONTROL SURVEY.	A	ND SPECIFICATIONS.	M TO THE CURRENT ARLINGTON CO		
D THE NORTH AMERICAN VERTICAL DATUM OF RTICAL CONTROL SURVEY.	A	RLINGTON COUNTY DES STANDARI ND GUTTER OR SIDEWALK ALONG	SHALL REMOVE AND REPLACE, TO T DS AND SPECIFICATIONS, ANY EXIST THE FRONTAGE OF THE SITE IN P	ING ENTRANCES, CURB	
OJECT AREA WILL BE PROVIDED IN ND SEDIMENT CONTROL HANDBOOK.	3. TH		SHALL BE RESPONSIBLE FOR REMO		
IO WAY RELIEVE THE DEVELOPER, THE GAL RESPONSIBILITY WHICH MAY BE REQUIRED ORDINANCE ENACTED BY ARLINGTON COUNTY.	C	ONJUNCTION WITH THIS DEVELOP	NY EXISTING ENTRANCES NOT BEIN MENT. SHALL OBTAIN ARLINGTON COUNTY F		
OUNTY CONSTRUCTION STANDARDS AND SEPTEMBER 09, 2020. ALL UTILITY PERMITS TH THE CONSTRUCTION CRITERIA IN THE S THAT MAY HAVE BEEN ISSUED.	5. TH	ERE MAY BE UNDERGROUND CON REA, THE CONTRACTOR SHALL BE	ALONG THE FRONTAGE OF THIS SI NDUIT, CABLES AND TRAFFIC DETECT E RESPONSIBLE FOR REPLACING AN	TION DEVICES IN THIS	
VER OR CHARGE OF AND SHALL NOT BE IETHODS, TECHNIQUES, SEQUENCES OR AND PROGRAMS IN CONNECTION WITH THE	& 6. TH	: OPERATIONS BUREAU AT (703) E DEVELOPER OR CONTRACTOR S	NSTRUCTION. NOTIFY THE TRANSPOR 228–3575, 24 HOURS PRIOR TO SHALL NOT DISTURB OR REMOVE AN	STARTING WORK.	
IEER SHALL NOT BE RESPONSIBLE FOR THE CARRY OUT THE WORK. THE ENGINEER IS NOT THE CONTRACTOR, SUBCONTRACTORS, OR THEIR PERSONS PERFORMING PORTIONS OF THE	P TI	ERMISSION FROM THE TRANSPOR RANSPORTATION ENGINEERING AT	OTHER TRAFFIC CONTROL DEVICE W TATION ENGINEERING & OPERATIONS (703) 228–3575. SHALL OBTAIN A PERMIT FROM THE	S BUREAU. CONTACT	
LINGTON COUNTY DEPARTMENT OF S UTILITY PERMIT REQUIREMENTS FOR	El P	NGINEERING & OPERATIONS BURE UBLIC RIGHT OF WAY, OR ON SII	EAU, PRIOR TO PLACING ANY OBSTR DEWALKS ALONG THE FRONTAGE OF LOCATED WITHIN THE TRAVEL WAY	RUCTION WITHIN THE THIS DEVELOPMENT.	
AND CERTIFICATION OF WATER AND SANITARY A BUILDING PERMIT.	TI	HIS DEVELOPMENT SHALL BE CAS			
WN TO EXIST WITHIN THE PROJECT LIMITS	D	IVISION PRIOR TO ANY DEMOLITIO	PERMIT REQUIREMENTS TELEPHONE	OF ON-SITE	
R ARLINGTON COUNTY'S GIS INFORMATION.	A ([	ND APPROVED BY THE DEPARTME OPRCR). THIS COORDINATION SHA	OR THIS DEVELOPMENT, SHALL BE ENT OF PARKS, RECREATION AND C ILL BE THE RESPONSIBILITY OF THE	ULTURAL RESOURCES	
95% OF MAXIMUM DENSITY AS DETERMINED ASHTO—T99, ASTM—D698, OR VTM—1 AS BY A REGISTERED PROFESSIONAL ENGINEER.	A P	T (703) 228–1863, 72 HOURS LANT MATERIAL AND INSTALLATION	THE DEVELOPER OR CONTRACTOR S IN ADVANCE TO SCHEDULE INSPECT N. ALSO PRIOR TO REMOVING OR D PRCR FOR INFORMATION AND APPI	TION OF EXCAVATION, ISTURBING ANY	
R PAVING SHALL BE DONE IN SUCH A MANNER		TILITY MARKING REQUIREMEN			
METHODS, MATERIALS AND DETAILS FOR ES.	H		SHALL NOTIFY "MISS UTILITY OF VIR ANY EXCAVATION OR CONSTRUCTION		
CURING ANY & ALL FLOOD HAZARD USE, TER DISCHARGE PERMITS, AS APPLICABLE PRIOR	C		REAU AT 703–228–3049 AT LEAST NSIT IS AFFECTED OR IF THERE AR		
OR HONORING ALL CONDITIONS OF SUCH	NO	TE: ALL TEMPORARY & FINAL BU	IS TRAVEL LANES MUST BE MINIMU	M 11' WIDE.	
N, ANY OBJECT OF AN UNUSUAL NATURE IS ASE THE WORK IN THAT AREA & IMMEDIATELY COUNTY AND/OR THE ARCHITECT/ENGINEER.					
EIGHT SHALL REQUIRE THE ISSUANCE OF A					
RING CONSTRUCTION WITH PROPER ALL INACTIVE WATER SERVICES SHALL BE WATER MAIN. ARLINGTON COUNTY WILL REMOVE R BOX AND THE CONTRACTOR SHALL BE WATER METER BOX. THE WATER MAIN WILL NEED TO BE LATERAL (SANITARY BUILDING CONNECTION) AT					
PERFORMED BY THE GENERAL CONTRACTOR. G PERMIT FOR THE SEWER CAP OFF. ND TREX) WILL ALSO BE NEEDED WHEN F IN THE STREET.					
			De	ewberry®	Dewberry Engineers Inc. 8401 ARLINGTON BLVD. FAIRFAX, VA 22031
					PHONE: 703.849.0100 FAX: 703.849.0518
ISSUED FOR BID 11-10-2023		STIMOTHY CHARLES CULLEITON		GTON COUNTY,\ OF ENVIRONME	VIRGINIA ENTAL SERVICES
		CTIMOTHY CHARLES CULLEITON Lic. No. 20112	GEN	IERAL NOTES & LE	-GEND
		SIONAL ENGINE		8 COLUMBIA PIKE DEMO 3108 COLUMBIA PIKE	LITION
		DEWBERRY REVISIONS		GTON COUNTY, VIRGIN	NIA 22204
NO. DATE DESCRIPTION COUNTY REVISIONS	BY		SCALE: AS-SHOWN	C-001	2 OF 28
SUBMITTED DATE:DESIGNED:BWBPROJECT/F8/4/2023CHECKED:TCCLDAP23-00					



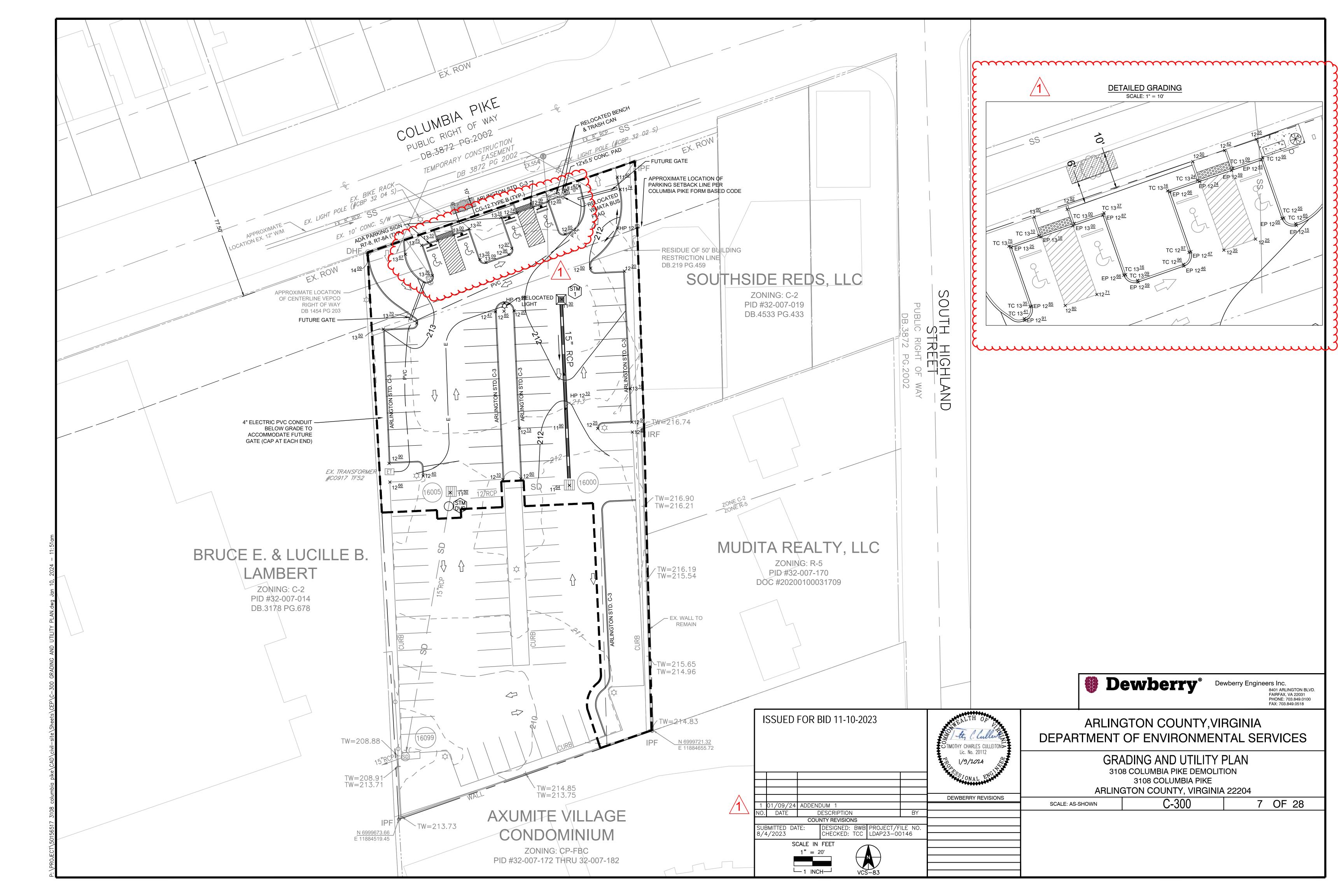


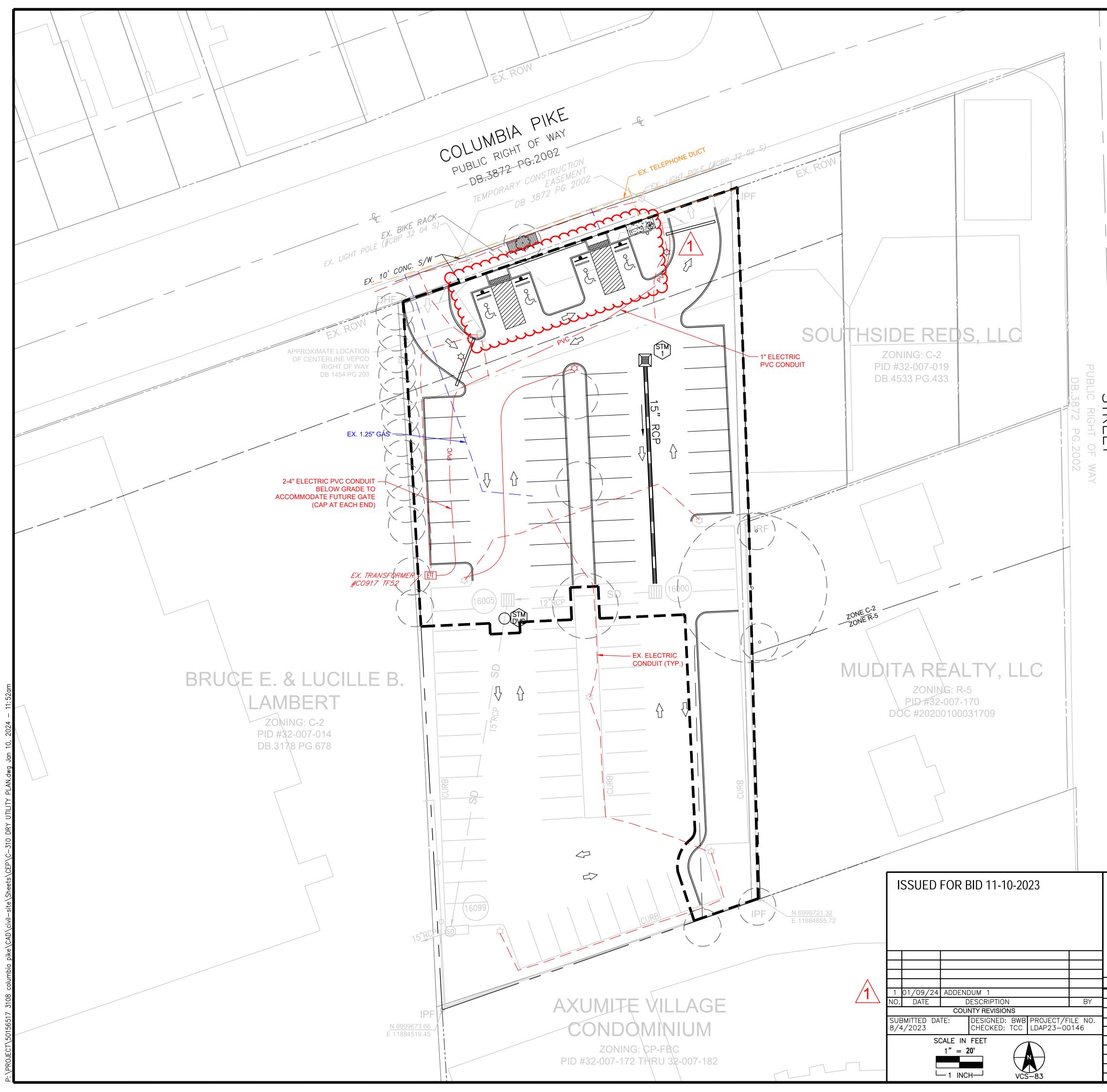


/		<u>EXI</u>	STING CONDITIONS		ON NOTES					
	/	1.	THE PROPERTY SHON IDENTIFICATION MAP IS ZONED S-3A.						C	
			THE TOTAL AREA OF NO FEMA 100 YEAR F	LOODPLAIN EXI			R FEMA FIRM N	1AP		
		4.	51013C0038C EFFECT THE SOIL TYPES LOC LAND-UDORTHENTS,	ATED WITHIN TH				ROLOGICA	۸L	
		5.	SOIL GROUP RATING IN ACCORDANCE WIT PROTECTION AREAS	H ARLINGTON C						
	$\wedge$	6.	AREA. WHERE EXISTING PA' LEAVE PAVEMENT IN	VEMENT IS TO E	BE REMOVED \	WITHIN THE CRITICAL	ROOT ZONE C	OF A TREE,	<b>`</b>	
		5	PAVEMENT WITH THE ONCE PAVEMENT HAS	E ROLLBACK TEO S BEEN REMOVI	CHNIQUE, KEE ED, VEHICULA	P EQUIPMENT ON PA R TRAFFIC IS STRICT	VING, AND LIM	IT OVERDI D UNTIL	1	
		5	PAVING IS REPLACED NO COMPACTION BEY CONSTRUCTION DET	YOND 85%. COO AILS CAN'T FOLI	RDINATE WITH LOW THIS SPE	H THE URBAN FORES	TER WHEN PR	OCESS OR	・イ	
		7.	ROADWAYS UNLESS WHERE CURB IS TO E DONE BY HAND AND F	BE REMOVED WI ROOTS SHALL B	ITHIN THE CRI BE PRUNED BY	TICAL ROOT ZONE O ' HAND. WORK SHALL			く	
		E	THE URBAN FORESTE		MAGE TO EXIS	TING TREES.	uu		5	
			DEMOLITION LEGEN	D						
			X. CURB & GUTTER TO E X. UTILITY TO BE ABAND			+ + + + +				
		Ε>	X. BUILDING /STRUCTUR		LISHED					
			X. PARKING LOT/HARDS EMOLISHED	CAPE TO BE						
		LI	MITS OF CLEARING AND	) GRADING						
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HIGHLAND										
					ewk	erry®	Dewberry	-		
				429	• • • •	,, <b>,</b>		F. P	401 ARLINGTO AIRFAX, VA 220 HONE: 703.849 AX: 703.849.05	031 9.0100
TEAL	TH OF		<u> </u>			COUNTY				
Non the	C. Culler					VIRONM	•		VICE	S
	ARLES CULLEITO Io. 20112	NA								
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3/101	NAL ER			ARI IN		COLUMBIA PIK OUNTY, VIRG		)4		
DEWBER	RY REVISION	NS	SCALE: AS-S			<u>C-100</u>			OF 28	8



	PARKING TA	ABULATION	
ĺ	Ç	RKING WITHIN S-3A ZONE: 92 SPACES	
		BER OF ACCESSIBLE SPACES REQUIRED: 4 SPACES SIBLE SPACES PROVIDED: 4 SPACES	
	ZONING SUN	MMARY	
	EXISTING ZONIN	<u> </u>	
	2		
		PROPOSED SITE LEGEND	
	Pr	PROPOSED ASPHALT PAVING	
	PF	PROPOSED CONCRETE PAVING	
	PF	PROPOSED SOD	
	LII	IMITS OF CLEARING AND GRADING — — — — — — — — — — — — — — — — — — —	
		AN GENERAL NOTES	
	<u> </u>	K WITHIN THE RIGHT-OF-WAY REQUIRES AN EXCAVATION PERMIT.	
	2. THE PERMI	A WITHIN THE RIGHT-OF-WAT REGUIRES AN EXCAVATION FERMIT. AND HOLDER OR REPRESENTATIVE THEREOF SHALL BE RESPONSIBLE TO REPAIR / RESTORE ALL STREETSCAPE S WITHIN THE RIGHT-OF-WAY THAT ARE DAMAGED AS A RESULT OF CONSTRUCTION. RESTORATION SHALL BE	
	REQUIRED	DAT THE INSPECTOR'S DISCRETION.	
( )			
SOUTH			
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Т			
HIGI			
LAND			
		<b>Deviderry</b> <sup>®</sup> Dewberry Engineers Inc.	′D.
		FAIRFAX, VA 22031 PHONE: 703.849.0100 FAX: 703.849.0518	
ALT	H OF		
SOM A	Cluff Per	ARLINGTON COUNTY, VIRGINIA	
STIMOTHY CHA	ARLES CULLEITON	DEPARTMENT OF ENVIRONMENTAL SERVICES	
λ.	o. 20112 2014	SITE PLAN	
ESSION	INT ENGINE	3108 COLUMBIA PIKE DEMOLITION	
		3108 COLUMBIA PIKE ARLINGTON COUNTY, VIRGINIA 22204	
DEWBERF	RY REVISIONS	scale: AS-SHOWN C-200 6 OF 28	$\neg$
		-	
		-	
		_	





			ET LIGHT EQUIPMENT BANCE (FOR FUTURE GATE CONTROLS)
SOUTH HIGHLAND			
		wberry®	Dewberry Engineers Inc. 8401 ARLINGTON BLVD. FAIRFAX, VA 22031 PHONE: 703.849.0100 FAX: 703.849.0518
TIMOTHY CHARLES CULLEITON		TON COUNTY, OF ENVIRONME	/IRGINIA NTAL SERVICES
Lic. No. 20112 FONAL ENGLISH		DRY UTILITY PLA COLUMBIA PIKE DEMO 3108 COLUMBIA PIKE TON COUNTY, VIRGIN	LITION
DEWBERRY REVISIONS	SCALE: AS-SHOWN	C-310	8 OF 28

LEGEND:

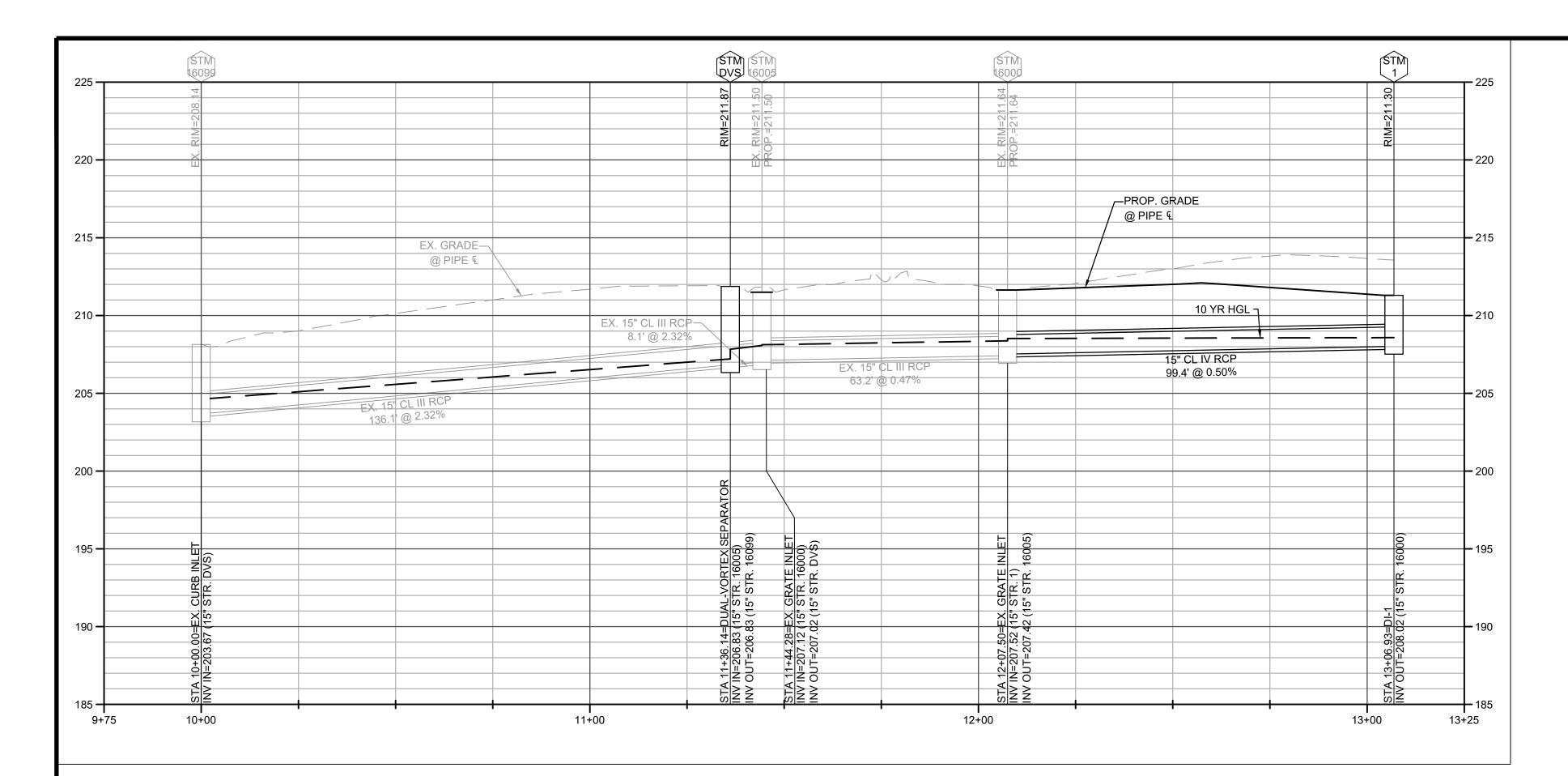
PLANTERS

PROPOSED POWER

PROPOSED COMMUNICATIONS

---- EXISTING POWER

ARLINGTON COUNTY REVIEW PURVIEW



# STORM SEWER DESIGN COMPUTATIONS

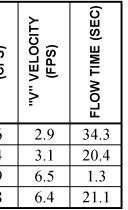
OUTLI	ET	Щ С	EA	NT	CA	0	L	HR)	L L	0	кт	۲		RUN		ER		:
FROM	то	INC. DRAINAGE AREA (ACRES)	ACCUM. DRAINAGE ARE (ACRES)	"C" COEFFICIE	INCREMENTAL	ACCUMULATE CA	TIME TO INLE (MIN)	RAINFALL INTENSITY (IN/I	INCREMENTA "Q" (CFS)	ACCUMULATE "Q" (CFS)	UPPER INVERT ELEVATION	LOWER INVERT ELEVATION	FALL (FT)	LENGTH OF RI (FT)	SLOPE (%)	PIPE DIAMETE (IN.)	"u "	MAXIMUM "Q (CFS)
STM1	16000	0.16	0.16	0.88	0.14	0.14	5.0	6.84	1.0	1.0	208.02	207.52	0.50	99.4	0.50%	15	0.013	4.6
16000	16005	0.06	0.22	0.83	0.05	0.19	5.0	6.84	0.3	1.3	207.42	207.12	0.30	63.2	0.47%	15	0.013	4.4
16005	DVS	0.20	0.42	0.80	0.16	0.35	5.0	6.84	1.1	2.4	207.02	206.83	0.19	8.1	2.33%	15	0.013	9.9
DVS	16099	0.00	0.42	0.00	0.00	0.35	5.0	6.84	0.0	2.4	206.83	203.67	3.16	136.1	2.32%	15	0.013	9.8

#### HYDRAULIC GRADE LINE COMPUTATIONS

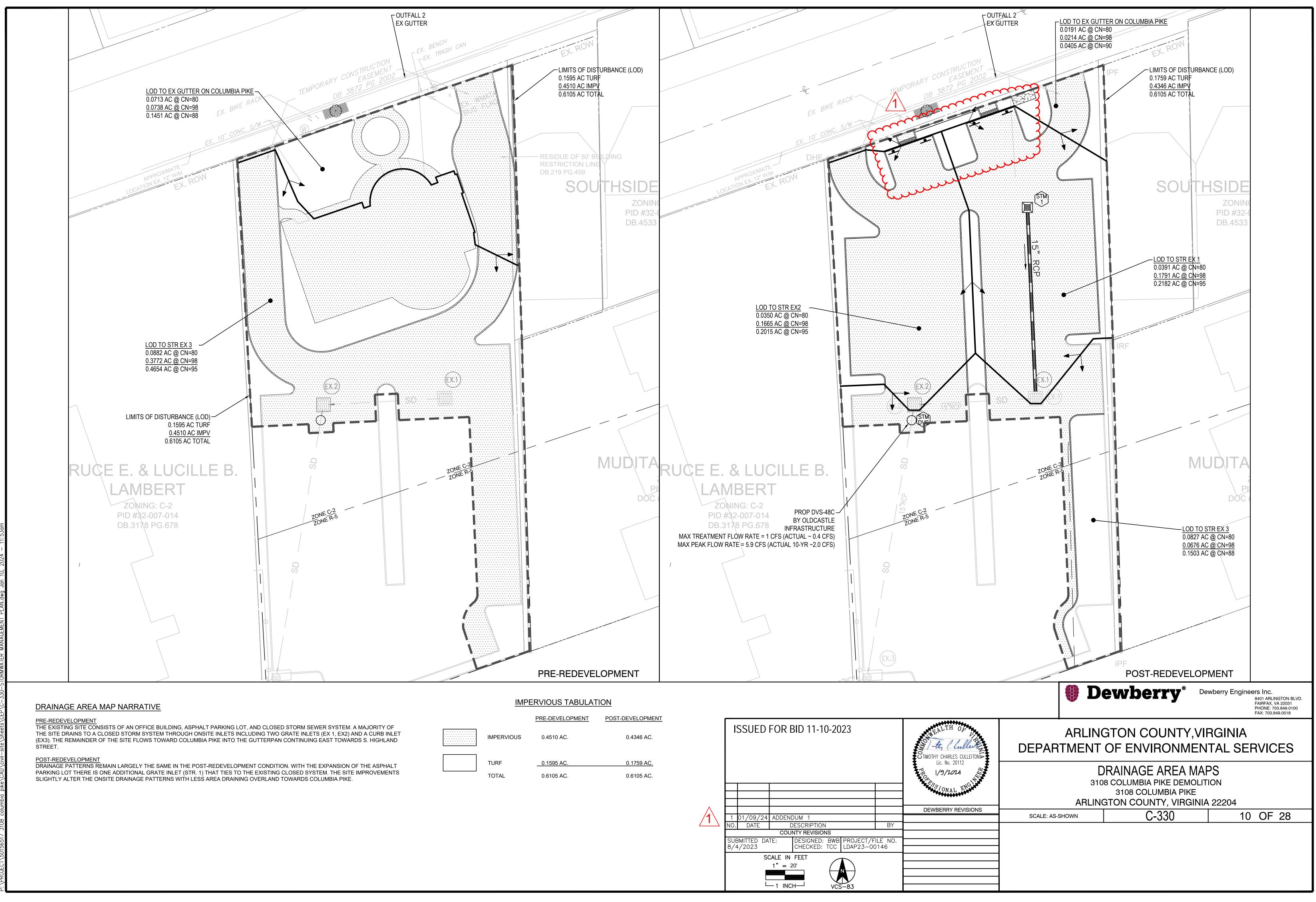
	Outlet									J	UNCTION	N LOSS								Inlet	
Inlet	Water	Do	Qo	Lo	Sfo	Hf													Final	Water	<b>Opening</b>
Str.	Surf Elev						Vo	Но	Qi	Vi	QiVi	<u>Vi^2</u>	Hi	Angle	Ha	Ht	1.3Ht	0.5Ht	Н	Surf Elev	Elev.
	(ft)	(in)	(cfs)	(ft)	(%)	(ft)	(fps)	(ft)	(cfs)	(fps)		2g	(ft)	(deg)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)		(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)
DVS	204.67	15	2.40	136.14	0.14	0.19	6.45	0.16	2.40	6.46	15.50	0.65	0.23	0	0.00	0.39		0.19	0.38	205.05	211.87
16005	207.83	15	2.40	8.14	0.14	0.01	6.46	0.16	1.30	3.10	4.04	0.15	0.05	77	0.10	0.31	0.40	0.20	0.21	208.04	211.12
16000	208.12	15	1.30	63.22	0.04	0.03	3.10	0.04	0.96	2.90	2.79	0.13	0.05	90	0.09	0.17	0.23		0.25	208.37	211.17
STM 1	208.52	15	0.96	99.43	0.02	0.02	2.90	0.03	0.00	0.00	0.00	0.00	0.00	0	0.00	0.03	0.04		0.06	208.58	211.80

#### DI-1 INLET DESIGN COMPUTATIONS

Qi (Orifice)=	Co*A*(2gd)^0.5	Co=	0.67	(For d> 0.8')		
Qi (Weir)=	Cw*P*d^1.5	Cw=	3.00	(For d< 0.8')		
		g (ft/s^2)=	32.17			
Area (sf) =	2.33	A (50% Clogged) =	1.17	Co*A =	0.78	
Perimeter (ft) =	9.00	P(50% Clogged) =	4.50	Cw*P =	13.50	
Number	Q Incr. (cfs)	D (weir)	D (orifice)	Controlling D	Top Elev	10 YR-WSE
STM 1	0.96	0.17'	0.02'	Weir	211.30	211.47

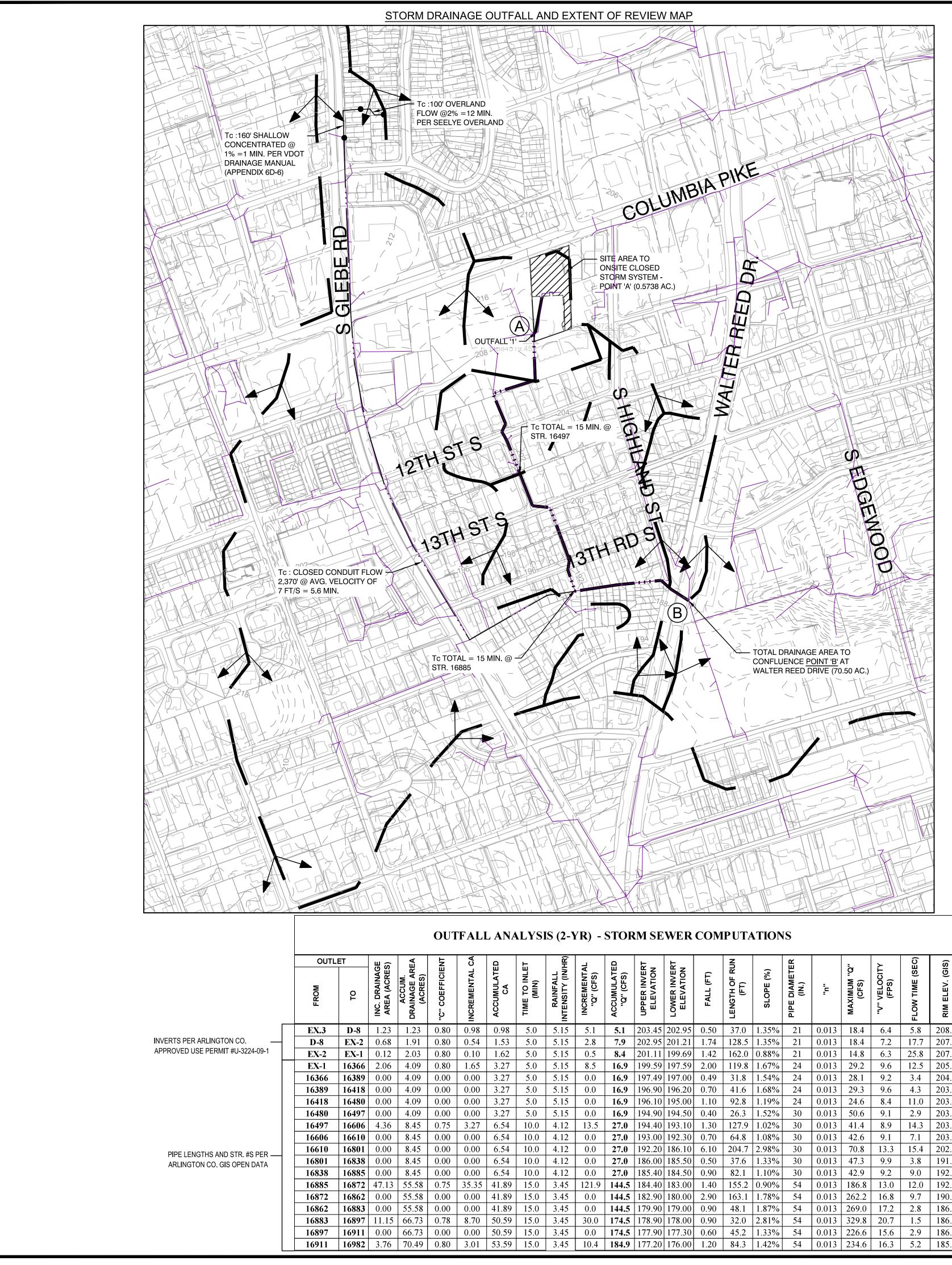


			ewberry® De	wberry Engineers Inc. 8401 ARLINGTON BLVD. FAIRFAX, VA 22031 PHONE: 703.849.0100 FAX: 703.849.0518
ISSUED FOR BID 11-10-2023	THEALTH OF		GTON COUNTY, VIE OF ENVIRONMEN	
	CIMOTHY CHARLES CULLETION Lic. No. 20112	3108	PLAN, PROFILES AND B COLUMBIA PIKE DEMOLIT 3108 COLUMBIA PIKE GTON COUNTY, VIRGINIA	ION
	DEWBERRY REVISIONS	SCALE: AS-SHOWN	C-320	9 OF 28
NO. DATE DESCRIPTION BY COUNTY REVISIONS SUBMITTED DATE: DESIGNED: BWB PROJECT/FILE NO. 8/4/2023 CHECKED: TCC DAP23-00146 SCALE IN FEET 1" = 20' 1 INCH				



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ESIGNED: BWB PROJECT/FI	LE NO. 9146
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INCREMENTAL "Q" (CFS)	ACCUMULATED "Q" (CFS)	UPPER INVERT ELEVATION	LOWER INVERT ELEVATION	FALL (FT)	LENGTH OF RUN (FT)	SLOPE (%)	PIPE DIAMETER (IN.)	"n"	MAXIMUM "Q" (CFS)	"V" VELOCITY (FPS)	FLOW TIME (SEC)	RIM ELEV. (GIS)	APPROX. COVER
5.1	5.1	203.45	202.95	0.50	37.0	1.35%	21	0.013	18.4	6.4	5.8	208.6	3.4
2.8	7.9	202.95	201.21	1.74	128.5	1.35%	21	0.013	18.4	7.2	17.7	207.0	2.3
0.5	8.4	201.11	199.69	1.42	162.0	0.88%	21	0.013	14.8	6.3	25.8	207.0	4.1
8.5	16.9	199.59	197.59	2.00	119.8	1.67%	24	0.013	29.2	9.6	12.5	205.9	4.3
0.0	16.9	197.49	197.00	0.49	31.8	1.54%	24	0.013	28.1	9.2	3.4	204.2	4.7
0.0	16.9	196.90	196.20	0.70	41.6	1.68%	24	0.013	29.3	9.6	4.3	203.9	5.0
0.0	16.9	196.10	195.00	1.10	92.8	1.19%	24	0.013	24.6	8.4	11.0	203.8	5.7
0.0	16.9	194.90	194.50	0.40	26.3	1.52%	30	0.013	50.6	9.1	2.9	203.8	6.4
13.5	27.0	194.40	193.10	1.30	127.9	1.02%	30	0.013	41.4	8.9	14.3	203.5	6.6
0.0	27.0	193.00	192.30	0.70	64.8	1.08%	30	0.013	42.6	9.1	7.1	203.5	8.0
0.0	27.0	192.20	186.10	6.10	204.7	2.98%	30	0.013	70.8	13.3	15.4	202.0	7.3
0.0	27.0	186.00	185.50	0.50	37.6	1.33%	30	0.013	47.3	9.9	3.8	191.9	3.4
0.0	27.0	185.40	184.50	0.90	82.1	1.10%	30	0.013	42.9	9.2	9.0	192.1	4.2
121.9	144.5	184.40	183.00	1.40	155.2	0.90%	54	0.013	186.8	13.0	12.0	192.2	3.3
0.0	144.5	182.90	180.00	2.90	163.1	1.78%	54	0.013	262.2	16.8	9.7	190.2	2.8
0.0	144.5	179.90	179.00	0.90	48.1	1.87%	54	0.013	269.0	17.2	2.8	186.8	2.4
30.0	174.5	178.90	178.00	0.90	32.0	2.81%	54	0.013	329.8	20.7	1.5	186.1	2.7
0.0	174.5	177.90	177.30	0.60	45.2	1.33%	54	0.013	226.6	15.6	2.9	186.1	3.7
10.4	184.9	177.20	176.00	1.20	84.3	1.42%	54	0.013	234.6	16.3	5.2	185.6	3.9

## STORMWATER MANAGEMENT PLAN AND ADEQUATE OUTFALL NARRATIVE

BECAUSE THE DISTURBED AREA (SITE) INCLUDES NEW DEVELOPMENT ON PRIOR DEVELOPED LAND, THE VIRGINIA RUNOFF REDUCTION METHOD (VRRM) REDEVELOPMENT WORKSHEET IS USED TO SHOW WATER QUALITY COMPLIANCE, SEE SHEETS C-332-C-333.

THE TOTAL PROJECT LOAD REDUCTION REQUIRED FOR PHOSPHORUS IS ESTIMATED TO BE 0.0950 LB/YR. THE ESTIMATED TOTAL PROJECT LOAD REDUCTION ACHIEVED FOR PHOSPHORUS IS 0.1606 LB/YR. THIS REDUCTION WILL BE PROVIDED BY ONE (1) MANUFACTURED TREATMENT DEVICES (MTD) CONSISTING OF ONE (1) DUAL-VORTEX SEPARATOR (DVS-48C). THIS MTD IS A HYDRODYNAMIC SEPARATOR BY OLDCASTLE INFRASTRUCTURE AND IS LISTED ON THE VIRGINIA STORMWATER BMP CLEARINGHOUSE AS AN ACCEPTABLE TREATMENT DEVICE. THE DVS-48C WILL BE SITED IN THE LOCATION SHOWN ON SHEET C-300.

OUTFALL DESCRIPTIONS THERE ARE (2) OUTFALLS WHERE RUNOFF LEAVES THE SITE:

OUTFALL 1 IS AT EXISTING DRAINAGE STRUCTURE #3 (EX 3). PER AVAILABLE ARLINGTON COUNTY GIS INFORMATION, DOWNSTREAM OF EX 3 THE CONVEYANCE SYSTEM IS A CLOSED STORM SEWER SYSTEM THROUGHOUT THE EXTENT OF REVIEW TO POINT 'B' SHOWN ON THE OUTFALL AND EXTENT OF REVIEW MAP, THIS SHEET.

OUTFALL 2 IS THE EXISTING GUTTER PAN ADJACENT TO THE PROJECT ON COLUMBIA PIKE. THE EXISTING GUTTER ENDS AT A CURB INLET ON COLUMBIA PIKE AT SOUTH HIGHLAND STREET. DOWNSTREAM OF THE CURB INLET THE CONVEYANCE SYSTEM APPEARS TO BE A CLOSED STORM SEWER SYSTEM. UNDER POST-DEVELOPMENT CONDITIONS, RUNOFF FROM THE PROJECT AREA WILL BE LESS THAN PRE-DEVELOPMENT. THE ESTIMATED REDUCTION IN 2- AND 10-YR 24-HOUR DISCHARGE TO OUTFALL 2 DUE TO THE PROJECT IS APPROXIMATELY 0.2 CFS AND 0.4 CFS, RESPECTIVELY. BECAUSE THIS IS A REDUCTION IN DISCHARGE AND NO KNOWN DRAINAGE COMPLAINTS, THE RECEIVING CONVEYANCE SYSTEM IS ASSUMED TO BE ADEQUATE.

CHANNEL PROTECTION (§9VAC25-870-66.B) ADEQUACY CONCENTRATED FLOW FROM THE DISTURBED AREA DISCHARGES TO OUTFALL '1' THROUGH A CLOSED CONDUIT STORM SYSTEM AT POINT 'A'. APPROXIMATELY 0.5700 ACRES OF THE DISTURBED AREA DRAINS TO ONSITE INLET TO EX3 WHERE IT LEAVES THE SITE AT OUTFALL '1'. THE FLOW IS CONVEYED VIA THE CLOSED SYSTEM SOUTH THROUGH SINGLE FAMILY NEIGHBORHOODS CROSSING 12TH ST S, 13TH ST S, AND 13TH RD S BEFORE A CHANGE IN DIRECTION TO THE EAST TOWARDS WATER REED DRIVE TO POINT 'B'.

STORM VELOCITY COMPUTATIONS FOR THE 2-YR STORM USING THE RATIONAL METHOD ARE PROVIDED ON THIS SHEET WHICH EXCEED THE TWO-YEAR 24 HOUR STORM PEAK FLOW. THE CLOSED SYSTEM IS CONSTRUCTED SOLELY OF REINFORCED CONCRETE PIPE AND THE CALCULATED VELOCITIES ARE NON-EROSIVE FOR THE SYSTEM THROUGHOUT THE EXTENT OF REVIEW DESCRIBED BELOW.

FLOOD PROTECTION (§9VAC25-870-66.C) ADEQUACY CONCENTRATED FLOW FROM THE DISTURBED AREA DISCHARGES TO OUTFALL '1' THROUGH A CLOSED CONDUIT STORM SYSTEM AT POINT 'A'. APPROXIMATELY 0.5700 ACRES OF THE DISTURBED AREA DRAINS TO ONSITE INLETS TO EX3 WHERE IT LEAVES THE SITE AT OUTFALL '1'. THE FLOW IS CONVEYED VIA THE CLOSED SYSTEM SOUTH THROUGH SINGLE FAMILY NEIGHBORHOODS CROSSING 12TH ST S, 13TH ST S, AND 13TH RD S BEFORE A CHANGE IN DIRECTION TO THE EAST TOWARDS WATER REED DRIVE TO POINT 'B'.

THERE IS NO KNOWN CASES OF LOCALIZED FLOODING FOR THE STORM SYSTEM ANALYZED FOR FLOOD PROTECTION. STORM CAPACITY COMPUTATIONS FOR THE 10-YR STORM USING THE RATIONAL METHOD ARE PROVIDED ON THIS SHEET WHICH EXCEED THE TEN-YEAR 24 HOUR PEAK FLOW. THE CLOSED SYSTEM IS ADEQUATE TO CONVEY THE PEAK FLOW RATE WITHIN THE STORMWATER CONVEYANCE SYSTEM FOR THE EXTENT OF REVIEW DESCRIBED BELOW.

#### LIMITS OF ANALYSIS

THE LIMITS OF ANALYSIS FOR BOTH CHANNEL AND FLOOD PROTECTION SHALL EXTEND TO A POINT WHERE THE SITE'S CONTRIBUTING DRAINAGE AREA IS LESS THAN OR EQUAL TO 1.0% OF THE TOTAL WATERSHED AREA. THIS POINT (POINT 'B') IS PROVIDED IN THE 'STORM DRAINAGE OUTFALL AND EXTENT OF REVIEW MAP', THIS SHEET. THE SITE'S CONTRIBUTING DRAINAGE AREA TO OUTFALL '1' IS 0.5700 ACRES, AT THE LIMITS OF ANALYSIS (POINT 'B') THE TOTAL WATERSHED AREA IS APPROXIMATELY 75.50 ACRES, WHICH IS GREATER THAN 100 TIMES THE CONTRIBUTING SITE AREA. FROM THE POINT OF THE SITE OUTFALL '1' TO THE LIMITS OF ANALYSIS, STORMWATER IS CONVEYED THROUGH A CLOSED CONDUIT SYSTEM.

#### ADEQUACY CONCLUSION

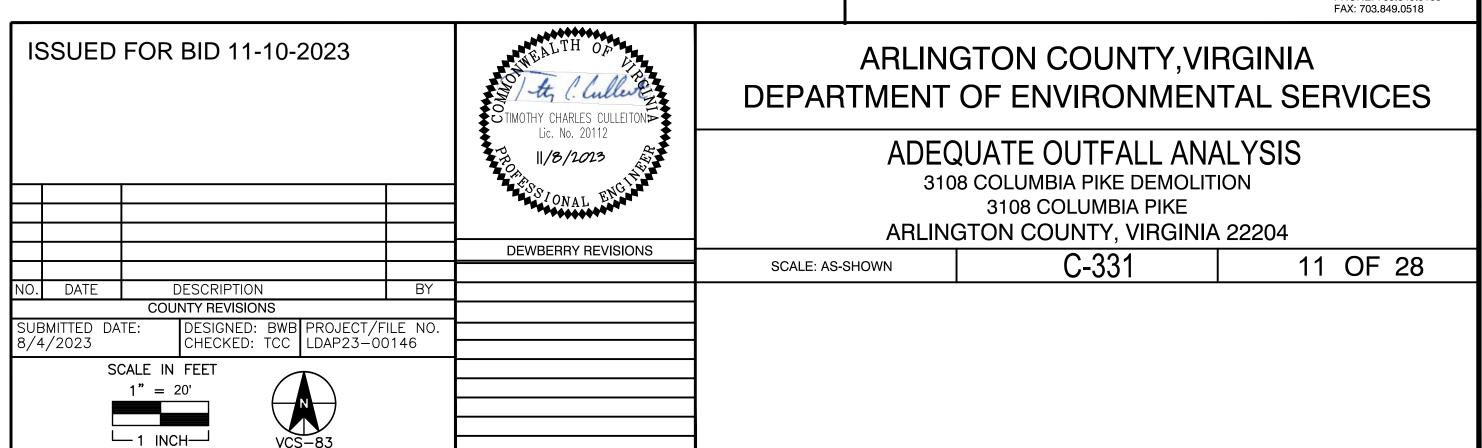
IT IS THE OPINION OF THE ENGINEER THAT THE OUTFALL IS ADEQUATE AND THAT THE PROPOSED DEVELOPMENT RESULTING IN A FLOW DECREASE WILL NOT HAVE ANY ADVERSE IMPACT ON LOWER LYING PROPERTIES AND WILL NOT AGGRAVATE ANY EXISTING DRAINAGE PROBLEM OR CAUSE A NEW DRAINAGE PROBLEM TO DOWNSTREAM PROPERTIES.

					OUT	FALL	ANA	LYSI	S (10-	YR) -	STO	RM SF	EWER	CON	1PUT.	ATIO	NS						
_	OUTL	.ET	DRAINAGE EA (ACRES)	И. AREA S)	ICIENT	FAL CA	ATED	TO INLET MIN)	LLL (IN/HR)	NTAL S)	ATED S)	VERT ION	VERT ION	(L	F RUN	(%)	DIAMETER (IN.)		.o.	сітү )	: (SEC)	(GIS)	COVER
	FROM	10	INC. DRAINA( AREA (ACRE	ACCUM. DRAINAGE AF (ACRES)	"C" COEFFICIENT	INCREMENTAL	ACCUMULATED CA	TIME TO II (MIN)	RAINFALL INTENSITY (IN/HR)	INCREMENTAL "Q" (CFS)	ACCUMULATE "Q" (CFS)	UPPER INVER ELEVATION	LOWER INVERT ELEVATION	FALL (FT)	LENGTH OF (FT)	SLOPE (%)	PIPE DIAN (IN.)	".u".	MAXIMUM (CFS)	"V" VELOCITY (FPS)	FLOW TIME	RIM ELEV.	APPROX. C
	EX.3	D-8	1.23	1.23	0.80	0.98	0.98	5.0	6.84	6.7	6.7	203.45		0.50	37.0	1.35%	21	0.013	18.4	6.9	5.4	208.6	3.4
	<b>D-8</b>	EX-2	0.68	1.91	0.80	0.54	1.53	5.0	6.84	3.7	10.5	202.95	201.21	1.74	128.5	1.35%	21	0.013	18.4	7.8	16.5	207.0	2.3
	EX-2	EX-1	0.12	2.03	0.80	0.10	1.62	5.0	6.84	0.7	11.1	201.11	199.69	1.42	162.0	0.88%	21	0.013	14.8	6.7	24.0	207.0	4.1
	EX-1	16366	2.06	4.09	0.80	1.65	3.27	5.0	6.84	11.3	22.4	199.59		2.00	119.8	1.67%	24	0.013	29.2	10.2	11.8	205.9	4.3
	16366	16389	0.00	4.09	0.00	0.00	3.27	5.0	6.84	0.0	22.4		197.00	0.49	31.8	1.54%	24	0.013	28.1	9.9	3.2	204.2	4.7
	16389	16418	0.00	4.09	0.00	0.00	3.27	5.0	6.84	0.0	22.4	196.90		0.70	41.6	1.68%	24	0.013	29.3	10.2	4.1	203.9	5.0
	16418	16480	0.00	4.09	0.00	0.00	3.27	5.0	6.84	0.0	22.4	196.10	195.00	1.10	92.8	1.19%	24	0.013	24.6	8.9	10.5	203.8	5.7
	16480	16497	0.00	4.09	0.00	0.00	3.27	5.0	6.84	0.0	22.4	194.90	194.50	0.40	26.3	1.52%	30	0.013	50.6	9.9	2.6	203.8	6.4
	16497	16606	4.36	8.45	0.75	3.27	6.54	10.0	5.47	17.9	35.8	194.40	193.10	1.30	127.9	1.02%	30	0.013	41.4	9.4	13.6	203.5	6.6
	16606	16610	0.00	8.45	0.00	0.00	6.54	10.0	5.47	0.0	35.8	193.00	192.30	0.70	64.8	1.08%	30	0.013	42.6	9.7	6.7	203.5	8.0
	16610	16801	0.00	8.45	0.00	0.00	6.54	10.0	5.47	0.0	35.8	192.20		6.10	204.7	2.98%	30	0.013	70.8	14.4	14.2	202.0	7.3
	16801	16838	0.00	8.45	0.00	0.00	6.54	10.0	5.47	0.0	35.8	186.00	185.50	0.50	37.6	1.33%	30	0.013	47.3	10.5	3.6	191.9	3.4
	16838	16885	0.00	8.45	0.00	0.00	6.54	10.0	5.47	0.0	35.8	185.40	184.50	0.90	82.1	1.10%	30	0.013	42.9	9.7	8.4	192.1	4.2
	16885	16872	47.13	55.58	0.75	35.35	41.89	15.0	4.09	144.6	171.3	184.40		1.40	155.2	0.90%	54	0.013	186.8	13.3	11.7	192.2	3.3
	16872	16862	0.00	55.58	0.00	0.00	41.89	15.0	4.09	0.0	171.3	182.90		2.90	163.1	1.78%	54	0.013	262.2	17.5	9.3	190.2	2.8
	16862	16883	0.00	55.58	0.00	0.00	41.89	15.0	4.09	0.0	171.3	179.90		0.90	48.1	1.87%	54	0.013	269.0	17.7	2.7	186.8	2.4
	16883	16897	11.15	66.73	0.78	8.70	50.59	15.0	4.09	35.6	206.9	178.90		0.90	32.0	2.81%	54	0.013	329.8	21.7	1.5	186.1	2.7
	16897	16911	0.00	66.73	0.00	0.00	50.59	15.0	4.09	0.0	206.9	177.90	177.30	0.60	45.2	1.33%	54	0.013	226.6	16.1	2.8	186.1	3.7
	16911	16982	3.76	70.49	0.80	3.01	53.59	15.0	4.09	12.3	219.2	177.20	176.00	1.20	84.3	1.42%	54	0.013	234.6	16.7	5.0	185.6	3.9

ARLINGTON CO. GIS OPEN DATA

PIPE LENGTHS AND STR. #S PER -

INVERTS PER ARLINGTON CO. APPROVED USE PERMIT #U-3224-09-1



AS SHOWN, THE 3108 COLUMBIA PIKE DEMOLITION PROJECT IS DEFINED BY APPROXIMATELY 0.6105 ACRES OF DISTURBED AREA. THE PROJECT WILL RESULT IN A SMALL DECREASE IN IMPERVIOUS COVER OF APPROXIMATELY 0.0114 ACRES. THE 3108 COLUMBIA PIKE SITE IS LOCATED WITHIN THE ARLINGTON BRANCH WATERSHED.

#### WATER QUALITY NARRATIVE (ARLINGTON COUNTY CODE §60-11.A - 9VAC25-870-65)

#### WATER QUANTITY NARRATIVE (ARLINGTON COUNTY CODE §60-11.A - 9VAC25-870-66

#### CHANNEL PROTECTION (§9VAC25-870-66.B.4.A) & FLOOD PROTECTION (§9VAC25-870-66.C.3.A)



8401 ARLINGTON BLVD. FAIRFAX, VA 22031 PHONE: 703.849.0100

	LEAR ALL trl+Shift+R)	data inpu constant
Linear Development Project? No		calculatio
ent Project (Treatment Volume and Loads) Enter Total Disturbed Area (acres) → 0.6105		Ch
Maximum reduction required: 10%	BMP Design Spe	and the second se
The site's net increase in impervious cover (acres) is:       0.0000         Post-Development TP Load Reduction for Site (lb/yr):       0.0806	Land cover areas ento Total disturbed	ered corre
nd Cover (acres)		
A Soils         B Soils         C Soils         D Soils         Totals           ndisturbed         0.0000         0.00		
ped, graded 0 1595		
0.1595		
0.4510 0.6105		
A Soils B Soils C Soils D Soils Totals		
ndisturbed, rreforested 0.0000		
bed, graded 0.1759 0.1759		
0.4346		
Area Check         OK.         OK.         OK.         0.6105		
Runoff Coefficients (Rv)       43     A Soils     B Soils     C Soil	ls D Soils	٦
1.00         Forest/Open Space         0.02         0.03         0.04	4 0.05	
g/L)         0.26         Managed Turf         0.15         0.20         0.22           .)         1.86         Impervious Cover         0.95         0.95         0.95		
0.41		
MARY PRE-REDEVELOPMENT LAND CO	VER SUMMARY F	POST DE
d Cover Summary-Pre Land Cover Summary-Post (Final)	Land Cover Sur	mmary-Post
nt Listed Adjusted <sup>1</sup> Post ReDev. & New Impervious	Post-ReDeve	
er (acres) 0.0000 0.0000 Forest/Open Space 0.0000 0.0000	Forest/Open Space Cover (acres)	0.000
0.0000         0.0000         Weighted Rv(forest)         0.0000	Weighted Rv(forest)	
0%         0%         % Forest         0%           0.1505         0.1505         Managed Turf Cover         0.1750	% Forest Managed Turf Cover	0%
acres) 0.1595 0.1595 (acres) 0.1759	(acres)	0.175
F) 0.2500 0.2500 Weighted Rv (turf) 0.2500	Weighted Rv (turf)	0.250
26%     26%     % Managed Turf     29%       Impervious Cover     0.1015	% Managed Turf ReDev. Impervious	29%
0.4510         0.4510         0.4510         0.4346	Cover (acres)	0.434
0.9500         0.9500         Rv(impervious)         0.9500           74%         74%         % impervious         71%	Rv(impervious)	0.950
74%         74%         % Impervious         71%           es)         0.6105         0.6105         Final Site Area (acres)         0.6105	% Impervious Total ReDev. Site Area	71% 0.610
0.7671         0.7671         Final Post Dev Site Rv         0.7483	(acres) ReDev Site Rv	0.748
/olume and Nutrient Load Tree	eatment Volume an	d Nutrier
0.0390 0.	Post-ReDevelopment Treatment Volume (acre-ft)	0.038
tent Volume 1,700.0198 1,700.0198 1,700.0198 1,700.0198 1,700.0198 1,700.0198 1,700.0198 1,658.3474 Treatment Volume (cubic feet)	Post-ReDevelopment Treatment Volume (cubic feet)	1,658.34
P Load 1.0681 1.0681 Final Post- Load 1.0419	Post-ReDevelopment Load (TP) (lb/yr)*	1.0419
I per acre1.7500I.7500(lb/yr)1.75001.7500I.7500I.7100I per acreIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Post-ReDevelopment TP Load per acre (lb/acre/yr)	1.7100
P Load (lb/yr) re-redevelopment area excluding 0.2503 for new impervious cover)	Max. Reduction Required (Below Pre- ReDevelopment Load)	10%
ry: minus pervious land cover (forest/open space or red for new impervious cover.	TP Load Reduction Required for Redeveloped Area (lb/yr)	0.080
stent with Post-ReDevelopment acreage (minus er).	L	
requriement for new impervious cover (based on 41 lbs/acre/year).		
	ea	
Post-Development Requirement for Site Are		

Nitrogen Loads (Informational Purposes Only) Final Post-Development TN Load (Post-ReDevelopment & New Impervious) (lb/yr)

Pre-ReDevelopment TN Load

(lb/yr)

7.6412

Area C FOREST/OPEN SP IMPERVIOUS COV **IMPERVIOUS COVER TREA** MANAGED TURF AF MANAGED TURF AREA TREA AREA

Site Treatment Volume (ft<sup>3</sup>) 1,658.3474

Runoff Reduction Volume and TP By Drainage Area

**RUNOFF REDUCTION VOLUME ACHIE** TP LOAD AVAILABLE FOR REMOVAL TP LOAD REDUCTION ACHIEVED **TP LOAD REMAINING** 

NITROGEN LOAD REDUCTION ACHIEVED (lb/yr) 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000

#### **Total Phosphorus**

FINAL POST-DEVELOPMENT TP LOA TP LOAD REDUCTION REQUIRE **TP LOAD REDUCTION ACHIEVED TP LOAD REMAINING** REMAINING TP LOAD REDUCTION REQUIRED (Ib/yr):

# Total Nitrogen (For Information Purposes)

POST-DEVELOPMENT LOAD NITROGEN LOAD REDUCTION ACHIEVED REMAINING POST-DEVELOPMENT NITROGEN LOA

heck:		
s List:	2013	Draft Stds & Specs
oject?	No	
ectly?	~	
ered?	$\checkmark$	

# ELOPMENT

	Land Cover Summ	ary-Post
	Post-Development Nev	v Impervious
	New Impervious Cover (acres)	0.0000
	Rv(impervious)	
Load	t.	
	Post-Development Treatment Volume (acre-ft)	
	Post-Development Treatment Volume (cubic feet)	
	Post-Development TP Load (Ib/yr)	
	TP Load Reduction Required for New Impervious Area (lb/yr)	0

7.4538

/

							1					
		SSUED	FOR E	3ID 11-1	0-20	23						
<b>\</b>												
$\backslash$	1	01/09/24	ADDEN	DUM 1								
	NO.	DATE		ESCRIPTION			BY					
		BMITTED DA 1/2023	TE:	BWB TCC	PROJECT/F LDAP23-00	ILE NO. 0146						
		SC	CALE IN	FEET								
		1" = 20'										
		L	- 1 INC	н—	VCS	<b>⊥</b> 5–83						

	225		515. <sup>11</sup> 2017	025 63	128	
Site	Results	(Water	Quality	Comp	liance)	

-						
Checks	D.A. A	D.A. B	D.A. C	D.A. D	D.A. E	AREA CHECK
PACE (ac)	0.0000	0.0000	0.0000	0.0000	0.0000	OK.
OVER (ac)	0.3456	0.0676	0.0000	0.0000	0.0000	OK.
ATED (ac)	0.3456	0.0000	0.0000	0.0000	0.0000	OK.
AREA (ac)	0.0741	0.0827	0.0000	0.0000	0.0000	OK.
ATED (ac)	0.0741	0.0000	0.0000	0.0000	0.0000	OK.
A CHECK	OK.	OK.	OK.	OK.	OK.	

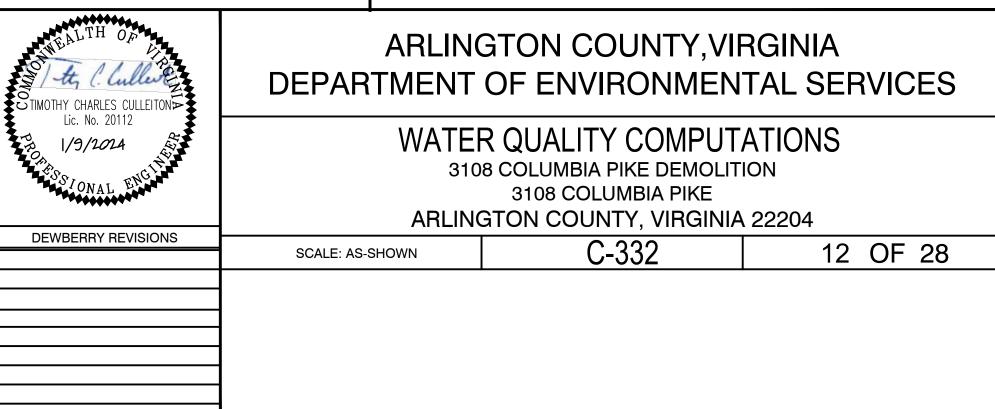
	D.A. A	D.A. B	D.A. C	D.A. D	D.A. E	TOTAL
EVED (ft <sup>3</sup> )	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
AL (lb/yr)	0.7911	0.1936	0.0000	0.0000	0.0000	0.9847
D (lb/yr)	0.1580	0.0000	0.0000	0.0000	0.0000	0.1580
G (lb/yr)	0.6330	0.1936	0.0000	0.0000	0.0000	0.8266
D (11 ()	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

D (lb/yr)	1.0419	
D (lb/yr)	0.0806	
O (lb/yr)	0.1580	
G (lb/yr):	0.8839	
) (lb/yr):	0.0000	**

\*\* TARGET TP REDUCTION EXCEEDED BY 0.0774 LB/YEAR \*\*

D (lb/yr)	7.4538	
D (lb/yr)	0.0000	
D (lb/yr)	7.4538	





age Area A Land Cover (acres)		1		1	-	1	1						
	A Soils	<b>B</b> Soils	C Soils	D Soils	Totals	Land Cover Rv							
Forest/Open Space (acres)					0.0000	0.0000							
Managed Turf (acres)				0.0741	0.0741	0.2500							
Impervious Cover (acres)				0.3456	0.3456	0.9500							
				Total	0.4197								
ormwater Best Managem	ent Practic	es (RR = R	unoff Redu	ction)									Select from dropdown lists-
Practice	Runoff Reduction Credit (%)	Managed Turf Credit Area (acres)	Impervious Cover Credit Area (acres)	Volume from Upstream Practice (ft <sup>3</sup> )	Runoff Reduction (ft <sup>3</sup> )	Remaining Runoff Volume (ft <sup>3</sup> )	Total BMP Treatment Volume (ft <sup>3</sup> )	Phosphorus Removal Efficiency (%)	Phosphorus Load from Upstream Practices (lb)	Untreated Phosphorus Load to Practice (lb)	Phosphorus Removed By Practice (Ib)	Remaining Phosphorus Load (Ib)	Downstream Practice to be Employed
. Manufactured Treatment Devices (	no RR)		и.										
14.a. Manufactured Treatment Device- Hydrodynamic	0	0.0741	0.3456	0.0000	0.0000	1,259.0474	1,259.0474	20	0.0000	0.7902	0.1580	0.6321	
b. Manufactured Treatment Device-Filtering	0			0.0000	0.0000	0.0000	0.0000	20	0.0000	0.0000	0.0000	0.0000	
c. Manufactured Treatment Device-Generic	0			0.0000	0.0000	0.0000	0.0000	20	0.0000	0.0000	0.0000	0.0000	
TOTAL PHOSPHORUS REM TOTAL PHOSPHORUS I TO TOTAL PHOSPHORUS REMA SEE WATER QUALIT	AREA TREATED TOTAL P TOTAL PHOSPH OVED WITHOUT REMOVED WITH DTAL PHOSPHON INING AFTER AF TY COMPLIAN	O (ac) 0.07 HOSPHORUS F ORUS AVAILA RUNOFF RED RUS LOAD REE PPLYING BMP VCE TAB FO	41 AREA C REMOVAL REQU BLE FOR REMO UCTION PRACTI UCTION PRACTI DUCTION ACHIEV LOAD REDUCTIO <b>R SITE COMP</b>	CES IN D.A. A (II VED IN D.A. A (II DNS IN D.A. A (II PLIANCE CAL	o/yr)       0.79         o/yr)       0.15         o/yr)       0.00         o/yr)       0.15         o/yr)       0.15         o/yr)       0.15         o/yr)       0.63         CULATIONS         o/yr)       0.00         o/yr)       0.00         o/yr)       0.00	11 80 00 80 30 30	Tv DA DA Qa Qa P CN	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	AC (DRAINAGI SF (DRAINAGI FT (RUNOFF V IN (RUNOFF V IN (RAINFALL	NT VOLUME TO DVS-60C E AREA TO DVS-60C IN A E AREA TO DVS-60C IN S OLUME IN FEET = Tv/DA OLUME IN WATERSHED , 1" IN VIRGINIA FOR WA USTED CURVE NUMBER	AC) F) A) O INCHES) ATER QUALITY)	CN =	1000 + 5P + 10Qa - 10(Qa <sup>2</sup> + 1.25QaP)

# UNCONTROLLED AREA

# Drainage Area B

Drainage	Area A	Land	Cover	(acres)	
	28 - 839 - 187 - 187 - 187 - 187 - 187 - 187 - 187 - 187 - 187 - 187 - 187 - 187 - 187 - 187 - 187 - 187 - 187			and the second second	

	A Soils	B Soils	C Soils	D Soils	Totals	Land Cover Rv
Forest/Open Space (acres)					0.0000	0.0000
Managed Turf (acres)				0.0827	0.0827	0.2500
Impervious Cover (acres)				0.0676	0.0676	0.9500
				Total	0.1503	



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								ON OF -AM DAMBREAK IE SERIES	SKK- ON RM- OUTFLOW SU AT DESIRED	CARD WAS BMERGENCE CALCULATI	CHANGED W E , SINGLE ION INTERV	WITH REVIS E EVENT DA	SIONS DATE MAGE CALC	ED 28 SEE CULATION,	P 81. THIS , DSS:WRITE	IS THE FOR STAGE FRE	LE INPUT STRUCT RTRAN77 VERSION EQUENCY,	
						Select from dropdown lists	s-				HEC-1						PAGE 1	3
tal BMP eatment	Phosphorus Removal	Phosphorus Load from	Untreated Phosphorus	Phosphorus Removed By	Remaining Phosphorus	Downstream Practice to be	LINE 1	ID	3108 COLU	MBIA PIKE	E DEMOLITI		6	7	8	.910	)	3
ume (ft <sup>3</sup> )	Efficiency (%)	Upstream Practices (lb)	Load to Practice (lb)	Practice (lb)	Load (Ib)	Employed	3	ID ID ID *DIAGRA	ARLINGTON 1" RAINFA TREATMENT	LL DEPTH		-48C						3
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0.0000	20	0.0000	0.0000	0.0000	0.0000		7	JR P: *	QUALITY RA REC 1	INFALL DE	EPTH = 1"							1
0.0000	20	0.0000	0.0000	0.0000	0.0000		8 9 10		DVS DVS-48C (0.	4197 AC @	NRCS ADJ	JUSTED RCN 21	1=99 @ TC=	=5 MIN)				3
	= 1259.0474		NT VOLUME TO DVS-60				12	PB	ATLAS C RAI 6	NFALL DIS	STRIBUTION	J						3
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Qa P CN	= 0.84 = 1 = 99	N (RAINFALL	/OLUME IN WATERSHEE , 1" IN VIRGINIA FOR W USTED CURVE NUMBER	ATER QUALITY)	[ 10 -	+ 5P + 10Qa - 10 ( Qa <sup>2</sup> + 1.25Qal	P) <sup>1</sup> ] 17 18 19	PC 0.0 PC 0.0 PC 0.0	1890.05045360.0651	0.0518 0.0667		0.0697 (	0.0562 0. 0.0713 0.	.0576 0. .0729 0.	.0745 0.0	06 0.062 76 0.077	L 5	3
							20 21 22 23	PC 0.0 PC 0.0 PC 0.1 PC 0.1	075 0.0996 198 0.1223	0.1017 0.1247		0.106 (0.1298 (	0.1082 0. 0.1324 0.	1104 0. 1351 0.	.0916 0.09 .1127 0.1 .1378 0.14 .1699 0.17	05 0.1432	1 2	3
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							33 34 35 36	PC 0.9 PC 0.9 PC 0.9 PC 0.9	547 0.966	0.9539	0.9553 0.9686	0.9566 0.9699 (	0.958 0. 0.9712 0.	.9594 0.		82 0.9490 21 0.9634 49 0.9762 68 0.9879	1 2	3
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							HYDROGRAPH AT +	DVS	.00		FLOW TIME	0.41	PRO	POSED TRE	ATMENT FLOW 1	O DVS-60C		3
	-						*** NORMAL EN		***									3
	-			Pre-	Post- TP load	Pre- Post- TN load	ormation - Revised 9	/19/2017					Runoff					3
		Project LDA Perr	Disturbe % Pre- nit d Area Impervio	% Post- ment TP	54	DevelopDevelopreductioment TNment TNnTotalloadloadachievedAr		Impervio Fo		Post- Impervio us Area Pr	re-Runoff	Post-Runoff		atitude Lo	Site ngitude Decimal Anticipa	ited		3
<b>U</b> r		SWM #         #           23-0138         LDA001	(acres) us	us         (lb/yr)           71.2         1.07	and a second sec	(lb/yr)         (lb/yr)         (lb/yr)         (acr           7.64         7.45         0.00         0.6	res) (acres) (acres)	(acres) (a	res) (acres)	(acres)	<b>Volume</b> 700.0198	Volume 1658.3474	Achieved D	egrees) De	egrees) Start D 7.089453 7/15/20	ate		1
					BMP dowr	Stormwater Mar	nagement Facility II		Revised 3/19/		prest	T	Î				TP load TN load	<b>- 3</b>
	Facility Type*	Hydrodynami		ProjectBuildingSWM#Permit#23-0138	Facility ID Serie	BMP (in (Primary) Chesapeak	e Watershed HUC6 Arlington Branch PL25	Soils Tr	ated Treated in) (ft <sup>3</sup> )	Area A	area Turf Are cres) (acres	Area (acres 0.3456		Phosphorus Efficiency (%) 20.00	Nitrogen Efficiency (%)	Access to a contract the second structure and	removed removed (lbs) (lbs) 0.1580 0.00	
L.	·····	·····	·····				·····	·····			·····		Dew	<b>vbe</b>	rry®		ngineers Inc. 8401 ARLINGTON E FAIRFAX, VA 22031 PHONE: 703.849.01 FAX: 703.849.0518	BLVD.
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									IONAL ENT			AR	31	08 COLL	JMBIA PIKE ITY, VIRGIN			
						09/24 ADDENDUM 1 DATE DESCRIPTION	BY	DEW	BERRY REVISIONS	3	SCALE: /	AS-SHOWN		C-	-333		13 OF 28	
					SUBMIT 8/4/20	COUNTY REVISIONS TED DATE: DESIGNED: BW CHECKED: TCC	B PROJECT/FILE NO. DAP23-00146											
						SCALE IN FEET $1" = 20'$												
							CS-83											

(			8							Storm	water Mana	gement Fa	cility
									BMP downstream of	Upstream			
	<b>&gt;</b>				LDA	Project	Building		another BMP (in	(Primary)	Chesapeake		
	<b>&gt;</b>	Facility Type**	Description	Location	Permit #	SWM#	Permit #	Facility ID	Series)?	BMP	<b>Bay Segment</b>	Watershed	HUC
1	<b>&gt;</b>		Hydrodynamic	Parking								Arlington	
2	<b>&gt;</b>	MANUFACTURED BMP	Separator	Lot	LDA00146	23-0138		23-0138A	No		POTTE VA	Branch	PL2

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	NO.	DATE	Ľ	DESCRIPTION	١		BY	-
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		_	1" = 2	20'				
							-	
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# DVS MAINTENANCE

# **DUAL-VORTEX SEPARATOR (DVS)**

#### DESCRIPTION

The Dual-Vortex Separator (DVS) is a hydrodynamic stormwater treatment device used to remove pollutants from urban runoff. Impervious surfaces and other urban and suburban landscapes generate a variety of contaminants that can enter stormwater and pollute downstream receiving waters. The DVS is designed to capture and retain sediment as well as floating trash, debris and oils. The concentration of metals and other constituents associated with sediment or floating pollutants may also be reduced.

#### FUNCTION

Stormwater runoff enters the DVS unit through an inlet pipe. Influent flow is split evenly between two vortex tubes by a V-shaped weir. The shape and diameter of the vortex tubes promotes circular motion of the incoming stormwater at increased velocities to enhance particle settling through centrifugal force. The system is also designed with an extended flow path to maximize hydraulic residence time which allows increased time to settle out solids. Settled pollutants are collected in an isolated storage area at the bottom of the structure, while floating trash, debris and petroleum hydrocarbons are retained behind baffles that contain the vortex chambers. During peak runoff events, flow in excess of design treatment flow overtops the bypass weir and exits the system without entering the treatment chambers to interrupt the treatment process or re-entrain captured pollutants. Treatment and bypass flows exit the system through an outlet pipe that is plumbed at the same elevation as the inlet pipe.

#### CONFIGURATION

The internal components of the DVS system are fabricated from stainless steel and mounted in a manhole or vault structure. The system is typically delivered as a complete unit for installation by the contractor. Installation includes excavation, preparation of the base rock, setting the unit, plumbing the inlet and outlet piping, backfill and placement of the finished surface at grade. Access to the installed system is allowed through ductile iron casting or hatch covers. The number of access points provided is dependent on the size and configuration of the system.

#### MAINTENANCE OVERVIEW

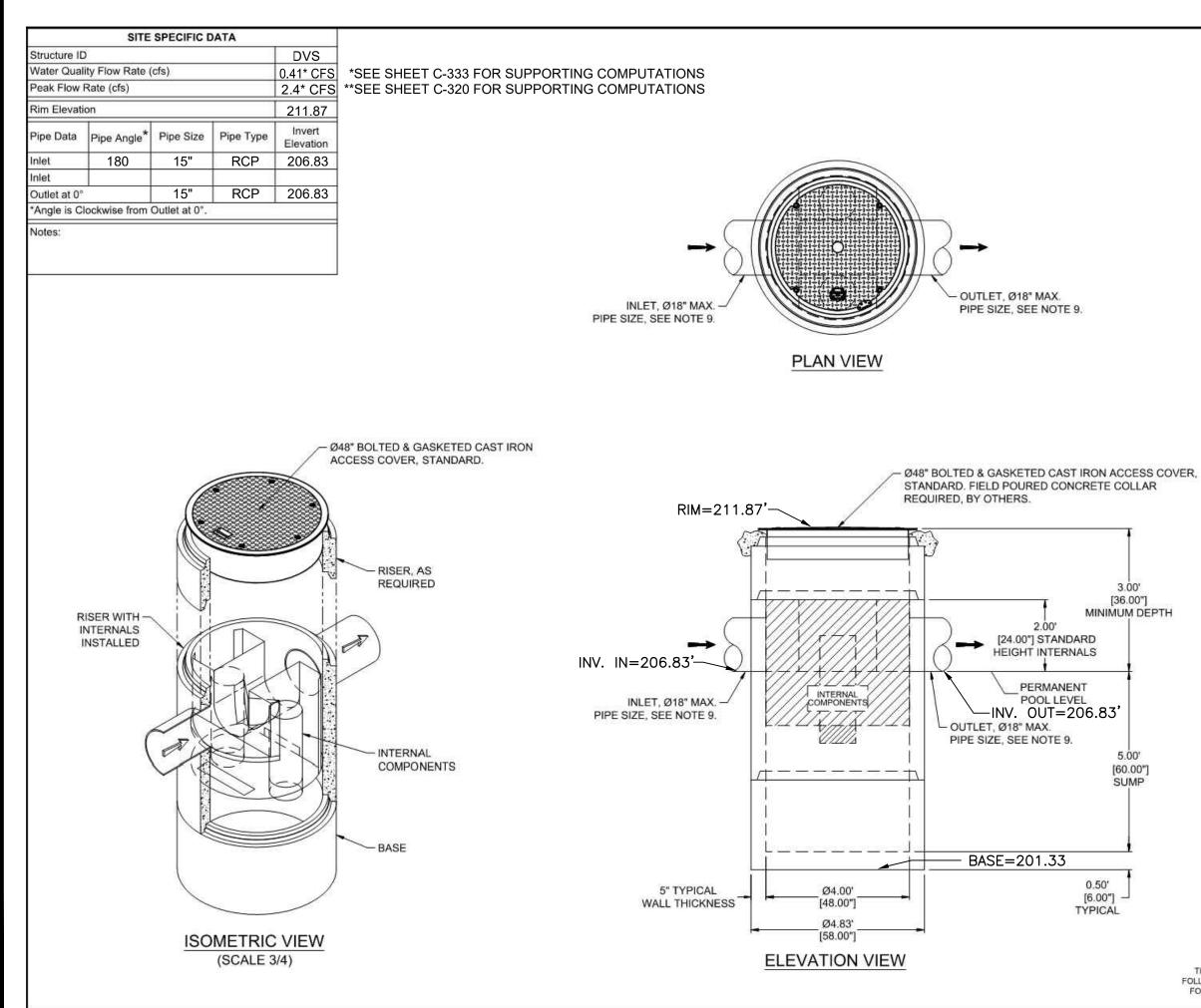
State and local regulations require all stormwater management systems to be inspected on a regular basis and maintained as necessary to ensure performance and protect downstream receiving waters. Without maintenance, excessive pollutant buildup can limit system performance by reducing the operating capacity and increase the potential for scouring of pollutants during periods of high flow.

- The following equipment is helpful when conducting DVS inspections: Recording device (pen ar
- recorder, iPad, etc.) Suitable clothing (appro
- hardhat, safety glasses,
- I Traffic control equipmer
- signage, flagging, etc.)

#### INSPECTION PROCEDURES

Inspection is essential to consistent system performance and is easily completed. Inspection is typically conducted a minimum of twice per year but since pollutant transport and deposition varies from site to site, a site-specific maintenance frequency should be established during the first two or three years of operation. DVS inspections are visual and are conducted without entering the unit. To complete an inspection, safety measures including traffic control should be deployed before the access covers are removed. Once the covers have been removed, the following items should be checked and recorded (see form provided on page 5) to determine whether maintenance is required:

- corrective action.
- maintenance is warranted.
- accumulated sediment.



#### **INSPECTION EQUIPMENT**

and paper form, voice	I Manhole hook or pry bar				
	Flashlight				
opriate footwear, gloves,	Tape measure				
s, etc.)	Measuring stick or sludge sampler				
ent (cones, barricades,	Long-handled net (optional)				
	Replacement Sorbent Pads				

Inspect the internal components and note whether there are any broken or missing parts. In the unlikely event that internal parts are broken or missing, contact Oldcastle Infrastructure at (800) 579-8819 to determine appropriate

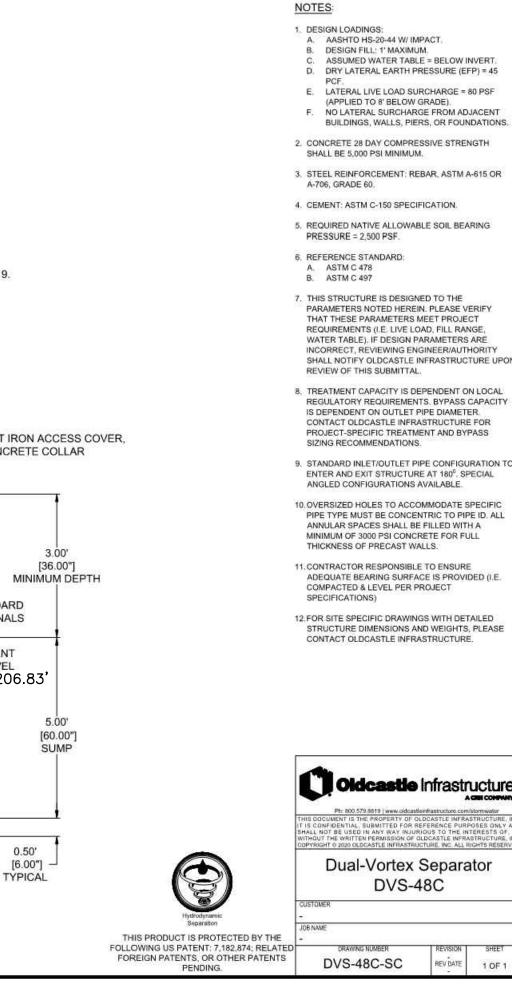
Note whether the inlet or outlet pipe is blocked or obstructed.

Observe, quantify and record the accumulation of floating trash and debris in the baffled chambers around the vortex tubes. The significance of accumulated floating trash and debris is a matter of judgement. A long-handled net may be used to retrieve the bulk of trash and debris at the time of inspection if full maintenance due to accumulation of oils or sediment is not yet warranted.

Observe, quantify and record the accumulation of oils in the baffled chambers around the vortex tubes. If sorbent pads have been used to absorb free oil and grease, observe and record their condition. Unless the sorbent pads are tethered to the internal baffles, spent pads may be netted and replaced at the time of inspection. The significance of accumulated floating oils is a matter of judgement. However, if there is evidence of an oil or fuel spill, immediate

Finally, observe, quantify and record the accumulation of sediment in the sediment storage sump. A calibrated dipstick, tape measure or sludge sampler may be used to determine the amount of accumulated sediment. The depth of sediment may be determined by calculating the difference between the measurement from the rim of the DVS to the top of the accumulated sediment and the measurement from the rim of the DVS to the bottom of the DVS structure. Finding the top of the accumulated sediment takes some practice and a light touch, but increasing resistance as the measuring device is lowered toward the bottom of the unit indicates the top of the

# www.oldcastleinfrastructure.com



#### MAINTER

- Internal compo
- Inlet or outlet p
- The accumulat around the vort
- Tethered sorbe
- The sediment li 18 inches of se performance of

#### MAINTER

The following equipm

- Suitable clothin
- Traffic control e signage, flaggir

- MAINTER

- Remove floatin the vacuum tru and evacuate a sediment from used for vacuu
- I f sorbent pads trained and cer
- The structure d when the next s
- All material ren In most cases, catch basins or

# NO

- 2.

INTENANCE INDICATO	DRS			
ance should be scheduled if any of the following cor	nditions are identified during inspection:			
iternal components are broken or missing. ilet or outlet piping is obstructed.			DUAL-VORTEX	SEPARATOR
e accumulation of floating trash and debris that car	nnot be retrieved with a net and/or oil in the baf	fled chambers	INSPECTION AND N	AINTENANCE LOG
ound the vortex tubes is significant. thered sorbent pads, if used, are dirty or saturated.				
e sediment level in the sediment storage sump is g		nent sump is	DVS Model	Inspection Date
inches of sediment depth for all DVS models. Sedir rformance of the system.	ment depths greater than 18 inches will begin to	o affect the	Location	
formance of the system.				
			Condition of Internal Components	Notes:
wing equipment is helpful when conducting DVS ma itable clothing (appropriate footwear, gloves,	I Confined space entry equipment, if ner	eded	Good Damaged Missing	
dhat, safety glasses, etc.)	I Flashlight			
iffic control equipment (cones, barricades, nage, flagging, etc.)	I Tape measure I Sorbent pads		Inlet or Outlet Blockage or Obstruction	Notes:
nhole hook or pry bar	Vacuum truck		Yes No	
			Floating Trash and Debris	Notes
<b>NTENANCE PROCEDU</b> nce should be conducted during dry weather when		<u>م</u>	Significant Not Significant	Notes:
ssibly the attachment of sorbent pads (if required)				
Once safety measures such as traffic control are o		nd	Floating Oils	Notes:
wing activities may be conducted to complete main move floating trash, debris and oils from the water		oom hose of	Significant Not Significant Spill	
e vacuum truck. Continue using the vacuum truck to				
nd evacuate all accumulated sediment from the sedi ediment from the sump. This is easily achieved by in			Sediment Depth	Notes:
ed for vacuum hose access.	3.7 3		Inches of Sediment	
sorbent pads are required and are tethered to the st ained and certified may enter the structure to remov		Space Entry		
he structure does not need to be refilled with water a		fill with water	Maintenance Requirements	
when the next storm event occurs.	1 1 1 1 1 1 No. 1		Yes - Schedule Maintenance No - Sched	lule Re-Inspection
Il material removed from the DVS during maintenanc n most cases, the material may be handled in the sar				
NOTES:				
1. CONTRACTOR DVS WITH ARL	LINGTON COUNTY	OFFICE OF SUSTAIN	ATION MEETING FOR TH NABILITY AND rmwaterReview@arlingtor	
1. CONTRACTOR DVS WITH ARI ENVIRONMEN TO SCHEDULE	LINGTON COUNTY TAL MANAGEMENT E	OFFICE OF SUSTAIN (OSEM). EMAIL Sto	NABILITY AND rmwaterReview@arlingtor	iva.us
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<ol> <li>CONTRACTOF DVS WITH ARI ENVIRONMEN TO SCHEDULE</li> <li>UPON COMPL CONTRACTOF MANUFACTUR</li> </ol>	LINGTON COUNTY TAL MANAGEMENT E ETION OF THE DUA R SHALL PROVIDE V RER THAT THE DEV	OFFICE OF SUSTAIN (OSEM). EMAIL Stor AL-VORTEX SEPARA VRITTEN CERTIFICA ICE IS INSTALLED P	ABILITY AND rmwaterReview@arlington TOR INSTALLATION, TH ATION TO THE ROPERLY.	Tota.us E Totalia Totalia Totalia E Dewberry Engineers Inc. Stati ARLING FARFAS, VA PHONE: 703 FAX: 703.84
<ol> <li>CONTRACTOF DVS WITH ARI ENVIRONMEN TO SCHEDULE</li> <li>UPON COMPL CONTRACTOF MANUFACTUR</li> </ol>	LINGTON COUNTY TAL MANAGEMENT E ETION OF THE DUA R SHALL PROVIDE V RER THAT THE DEV	OFFICE OF SUSTAIN (OSEM). EMAIL Stor AL-VORTEX SEPARA VRITTEN CERTIFICA ICE IS INSTALLED P	ABILITY AND rmwaterReview@arlington ATOR INSTALLATION, TH ATION TO THE PROPERLY.	Tota.us E Dewberry Engineers Inc. B401 ARLING FARFAX, VA PHONE: 703 FAX: 703.84
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1.       CONTRACTOF         DVS WITH ARI         ENVIRONMENT         TO SCHEDULE         2.       UPON COMPLICONTRACTOF         CONTRACTOF         MANUFACTUR         ISSUED FOR BIN         NO.       DATE         DESC         SUBMITTED DATE       DESC	LINGTON COUNTY TAL MANAGEMENT E ETION OF THE DUA SHALL PROVIDE A REALL PROVIDA REALL PROVIDE A REALL PROVIDE A REALL PROVIDE A	OFFICE OF SUSTAIN (OSEM). EMAIL Stor AL-VORTEX SEPARA VRITTEN CERTIFICA ICE IS INSTALLED P	ABILITY AND rmwaterReview@arlingtor ATOR INSTALLATION, TH ATION TO THE PROPERLY.	The second secon

	/ Total Maximum Daily Load (TMDL) Information apeake Bay and Potomac River watersheds; TMDLs have been
	ents (nitrogen, phosphorus), and PCBs. A TMDL has also been established
	n Watershed. Measures will be taken to minimize the discharge of these rm drain system and surface waters.
Site inspections will be cond	ducted every four (4) business days
Permanent or temporary so final grade is reached on any p	il stabilization shall be applied to denuded areas within seven days after

nutrient management plan and shall not be applied during rainfall events, during windy conditions, or when rain is in the immediate 48-hour forecast.

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

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

#### 1.0 SWPPP Documents Located Onsite & Available for Review

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

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

#### 2.0 Authorized Non-Stormwater Discharges

•	Uncontaminated / filtered excavation dewatering	🖾 Yes		NA
•	Uncontaminated / filtered wash water	🛛 Yes		NA
•	Potable water sources that do not create an in-stream impact	🛛 Yes		NA
•	Pumped uncontaminated ground water	□ Yes	$\boxtimes$	NA
•	Landscape irrigation	□ Yes	$\boxtimes$	NA
•	Other	□ Yes	$\boxtimes$	NA

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#### 7.0 Spill Prevention, Response, and Reporting

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

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

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

Location(s) of spill kit(s) on site:	
1.)	
2.)	
3.)	
5.7	
Spill Response and Reporting:	
<ul> <li>Check for hazards (flammable material, noxious for off engines and nearby electrical equipment. If see</li> </ul>	
<u>call 911.</u>	and a first the state of the set
<ul> <li>Ensure the spill area is safe to enter and does not</li> <li>Stop the spill source.</li> </ul>	pose an immediate threat to health and safe
<ul> <li>Notify personnel in area of spill and potential dang</li> </ul>	iers
<ul> <li>Ask for assistance to block off area and help with</li> </ul>	
<ul> <li>Take measures to prevent a spill from spreading a soil)</li> </ul>	전하는 것 같은 것 같아요. 이 것 같아요. 이 것 같아요. 이 것 같아요.
<ul> <li>Clean up spill using dry methods and dispose of r specification and local, state, and federal regulation</li> </ul>	ons.
<ul> <li>Never flush or "hose down" a spill down into a sto</li> </ul>	
<ul> <li>If spilled material has entered a storm drain or sur</li> </ul>	face water; call the Fire Department (911)
Emergency Contacts:	
Arlington County Fire & Police	911 / 703-558-2222
DES Water, Sewer, Streets 24-Hour Emergency	703-228-6555
Washington Gas Emergency Line	703-750-1400
<ul> <li>VA Dept. of Emergency Management (24 hour)</li> </ul>	804-674-2400
<ul> <li>Water or sewer breaks, or overflows will be reported t</li> </ul>	o Arlington County Department of
Environmental Services, Water, Sewer, Streets 24-Ho	
<ul> <li>Leaking underground storage tanks will be reported to</li> </ul>	the Virginia Department of Environmental
Quality Northern Regional Office, 703-583-3800 and t	

703-228-4644

#### 5.0 Pollution Prevention Practices (PPP)

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

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

(1) Clearing, Grading, Excavating - Sediment Control / Stabilization (PPP1) • Erosion and sediment controls selected and/or described in Section 4.0 will be installed and maintained to protect resources and prevent sediment from leaving the site/LOD and

> entering the storm drain system or surface waters. Sediment tracking onto paved areas outside the LOD / construction entrances will be swept up

• Plastic sheeting, tarps, 2" deep straw cover, mulch and/or erosion matting will be used for temporary stabilization of exposed soil / slopes. • The Pre-Storm Site Preparation Checklist will be followed and implemented.

#### (2) Saw Cutting and Paving Operations (PPP2)

 Slurry or other debris shall not enter a storm drain or surface water. Spill containment techniques such as the use of sand bags or booms around the immediate work area shall be used to contain and capture any non-stormwater

discharges. Slurry from saw cutting operations must be contained, collected (vacuumed), and disposed of properly.

Description of temporary controls that will be used:

(3) Concrete Operations - Washout and Waste Management (PPP3) Concrete wash out will be conducting in a leak-proof container or leak-proof settling basin that is designed so that no overflows can occur due to inadequate sizing or precipitation. Hardened concrete wastes shall be removed and disposed of in a manner consistent with the handling of other construction wastes.

 Concrete wash water shall not be discharged to a storm drain or surface water. Washout facilities will be sized appropriately for the needs of the project.

 Washout facilities will not be located near storm drains. Mixers and truck chutes will be washed out in designated contained washout areas

No tracking from washout areas will occur.

 Plastic sheeting, boards, or tarps will be placed under concrete truck chutes during pouring Concrete washout areas will not be used for dewatering

# The selected concrete wash out facility will be used:

□ Washout Structure - Wood Planks

□ Washout Structure - Straw Bales

Prefabricated Containment System – Type: □ Other: \_\_\_\_\_

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4)		Washing	Activities	PPP4
+)	N I	washing	Activities	(FFF4

Wash water discharges to the storm drain system or surface waters are prohibited. The following pollution prevention practices and controls will be implemented where applicable: Wash water or liquid wastes shall not enter a storm drain or surface waters. A suitable containment system for cleaning equipment such as a drum, prefabricated system.

- lined container, or portable wash pad will be provided.
- The wash / containment area will be sized appropriately for the needs of the project.
- The wash / containment area(s) will be situated away from storm drains. Containers will be monitored for leaks or damage. Containers will be replaced as needed.

Washout containment / controls for this project will include:

#### (5) Dewatering Operations (PPP5)

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

Dewatering controls that will be used:

- Filter bag on stone bed with haybales
- Portable sediment tank
- Manufactured / customized system

#### (6) Materials / Chemical Use and Storage (PPP6)

Areas will be designated for material delivery and storage. These areas will be near construction entrances and not situated near storm drains. Lay downs areas will be shown on plans. Storage and containment areas will be adequately enclosed or covered. Additional pollution prevention practices and controls include:

- Stockpiled soil and other loose materials that can be washed away shall be covered with a tarp, plastic sheeting, or other stabilization matting when not being actively accessed. Covers must be properly secured / anchored down to prevent the covering from being blown off and exposing materials to rain. Controls such as hay bales or booms should be placed along the perimeter of stock pile (downhill side).
- Stockpiled materials located on the edge of roadways will not obstruct flow along the curb line (gutter). Adequate space between the curb and stockpile will be left to allow stormwater to flow along the curb line. Pipes or boards laid over curbs may be used to create the flow through space.
- Secondary containment will be used for storage of fuels, oil, grease, paint, solvents, sealers, cleaners, and other chemicals. Materials will be kept secured and covered when not in use.

#### (7) Z Equipment and Vehicle Fueling / Maintenance (PPP7)

Designated areas for refueling vehicles or equipment or perform maintenance will be located away from storm drains and surface waters. Additional pollution prevention practices and controls include:

7

#### **POLLUTION PREVENTION PLAN NOTES (STORMWATER MANUAL - SECTION 2.4)**

- DISCHARGE TO BE A SIGNIFICANT SOURCE OF POLLUTANTS TO SURFACE WATERS:
- 2 OR STREAM NETWORK.

			ewberry®	Dewberry Engineers Inc. 8401 ARLINGTON BLVD. FAIRFAX, VA 22031 PHONE: 703.849.0100 FAX: 703.849.0518
ISSUED FOR BID 11-10-2023	STIMOTHY CHARLES CULLEITON		GTON COUNTY, OF ENVIRONME	VIRGINIA ENTAL SERVICES
	Lic. No. 20112	310	UTION PREVENTI 8 COLUMBIA PIKE DEMO 3108 COLUMBIA PIKE GTON COUNTY, VIRGI	
	DEWBERRY REVISIONS	SCALE: AS-SHOWN	C-335	15 OF 28
NO. DATE DESCRIPTION BY COUNTY REVISIONS SUBMITTED DA 8/4/2023 S( 2 E IN FEET 1 ' = 1 INCH- BY DESCRIPTION BY COUNTY REVISIONS DESIGNED: BWB PROJECT/FILE NO. LDAP23-00146				

- - V-01/2022

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

#### (8) Waste Management (PPP8)

Trash, waste, and construction debris will be managed and disposed of properly. Designated areas for trash and debris collection will be situated as far away from storm drains as possible. Additional pollution prevention practices and controls include:

- A sufficient number of waste containers will be kept on a site to handle the quantity of waste produced.
- Waste collection / pick up will be conducted as necessary to prevent overfilling. Containers will have lids or covers that can be used to cover open containers at the end of the work day and prior to rain events. Roll off containers will be kept covered when not being
- accessed. Lids and doors on dumpsters and/or / trash can will be kept closed. Waste containers will be checked frequently for damage / leaks. Any cleaning will be conducting using DRY methods. Waste containers will not be power washed or hosed out
- unless the wash water is collected and disposed of into the sanitary sewer system. Damaged containers / receptacles (leaking, cracked, corroded, or otherwise deteriorating) will be replaced.

Portable lavatory units will be properly situated and maintained to prevent pollution releases. Additional pollution prevention practices and controls include:

- Portable lavatories will be situated away from storm drains and surface waters.
- Portable lavatories will be kept level and have secondary containment (i.e. travs) if situated on paved surfaces.
- Units will be inspected for leaks or damage will be conducted frequently.
- Routine maintenance / cleaning will occur, and units will be replaced if damaged or leaking.

#### (10) X Nutrient Management / Fertilizer Application (PPP10)

Fertilizer will be applied in accordance with manufacturer's recommendations. Fertilizer will not be applied during rainfall events or windy conditions, or when rain is forecasted. Fertilizer will be properly secured and stored under cover when not being used. Residual fertilizer on paved surfaces will be swept up.

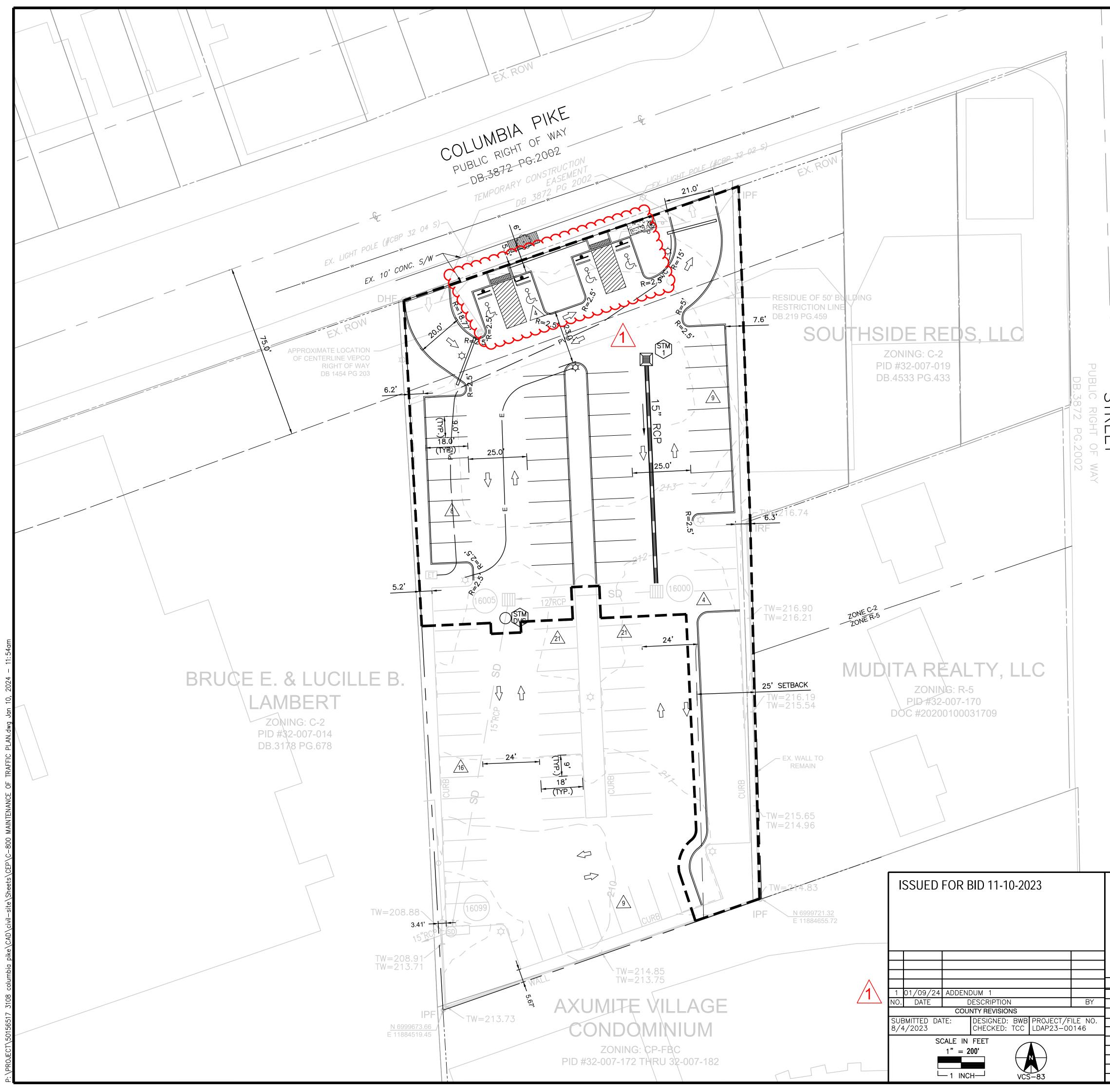
V-01/2022

1. ONLY THE FOLLOWING NON-STORMWATER DISCHARGES ARE AUTHORIZED BY ARLINGTON COUNTY'S MS4 PERMIT, UNLESS THE STATE WATER CONTROL BOARD OR ARLINGTON COUNTY DETERMINES THE

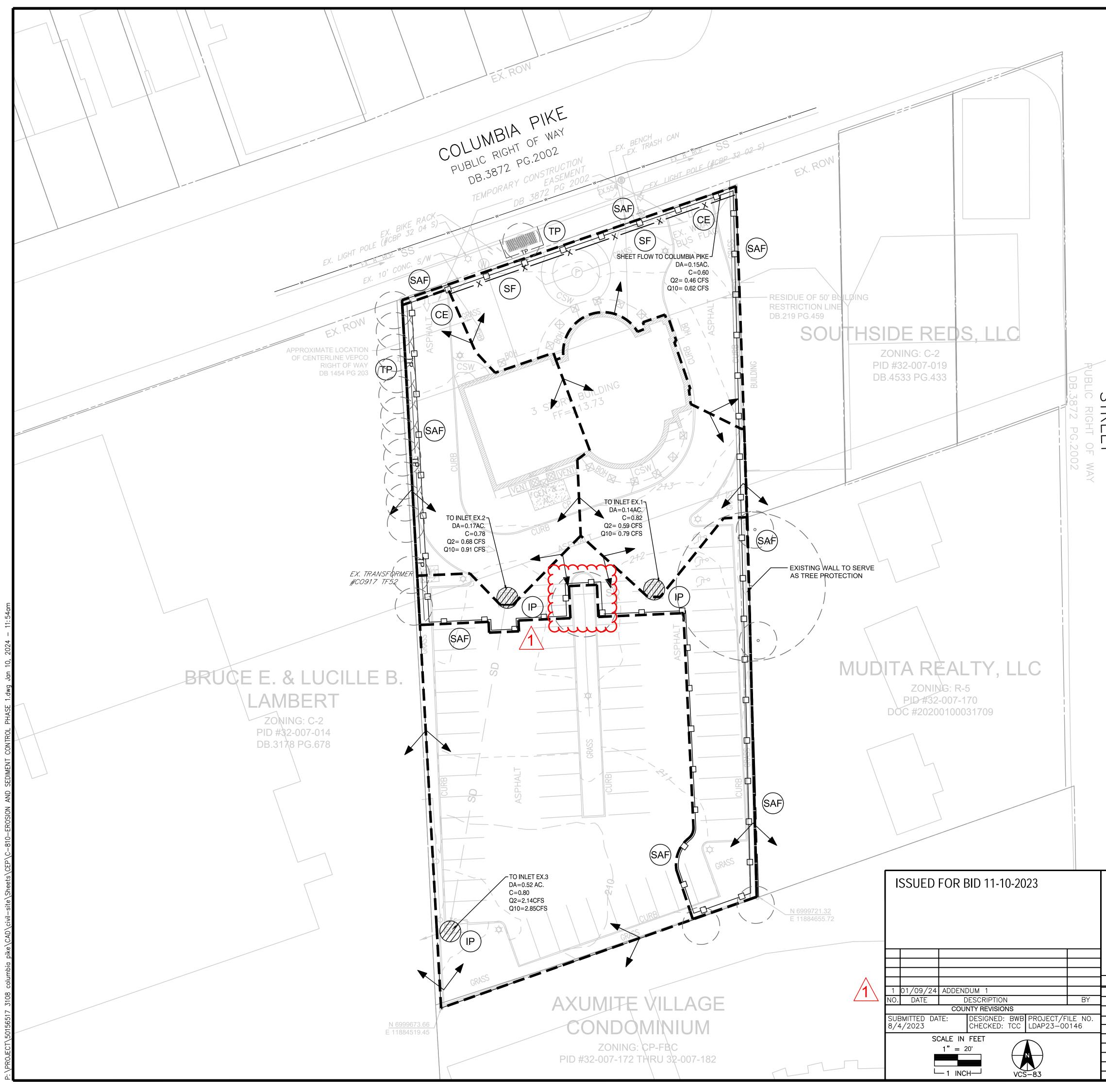
a. WATER LINE FLUSHING (MANAGED IN A MANNER TO AVOID AN INSTREAM IMPACT); LANDSCAPE IRRIGATION; DIVERTED STREAM FLOWS; RISING GROUND WATERS; UNCONTAMINATED GROUND WATER INFILTRATION (AS DEFINED AT 40 CFR 35.2005(20)); UNCONTAMINATED PUMPED GROUND WATER; DISCHARGES FROM POTABLE WATER SOURCES; FOUNDATION 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; STREET WATER WASHING; DISCHARGES OR FLOWS FROM EMERGENCY FIREFIGHTING ACTIVITIES; AND, OTHER ACTIVITIES GENERATING DISCHARGES IDENTIFIED BY THE DEPARTMENT OF ENVIRONMENTAL QUALITY AS NOT REQUIRING VPDES AUTHORIZATION.

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, SLURRY/WASH WATER FROM SAW CUTTING ACTIVITIES, ETC.) FROM BEING DISCHARGED INTO ARLINGTON COUNTY'S MUNICIPAL STORM SEWER SYSTEM (MS4),

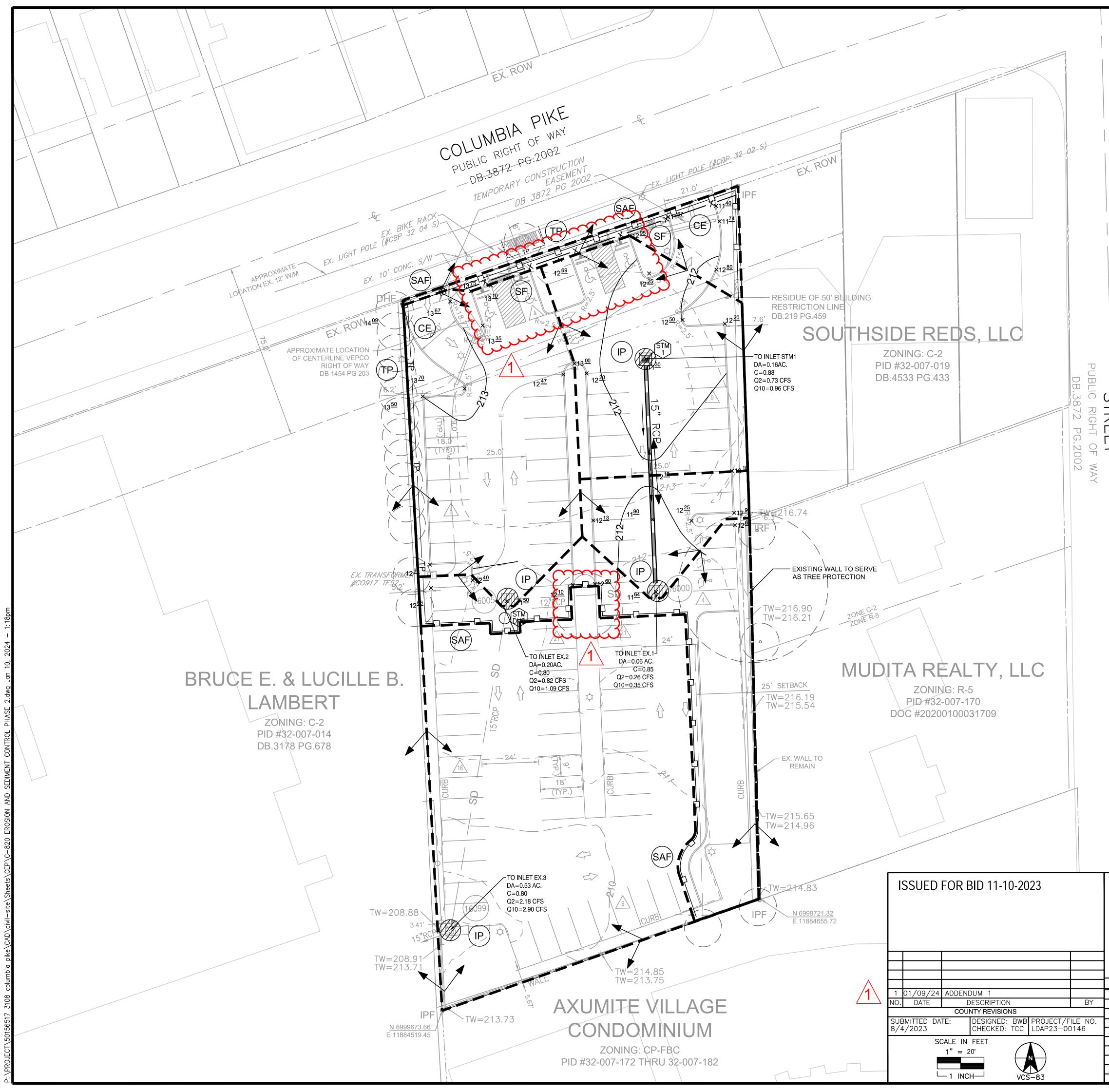
3. PER CHAPTER 26.5C OF THE ARLINGTON COUNTY CODE, IT SHALL BE UNLAWFUL FOR ANY PERSON TO DISCHARGE DIRECTLY OR INDIRECTLY INTO THE STORM SEWER SYSTEM OR STATE WATERS, ANY SUBSTANCE LIKELY, IN THE OPINION OF THE COUNTY MANAGER, TO HAVE AN ADVERSE EFFECT ON THE STORM SEWER SYSTEM OR STATE WATERS.



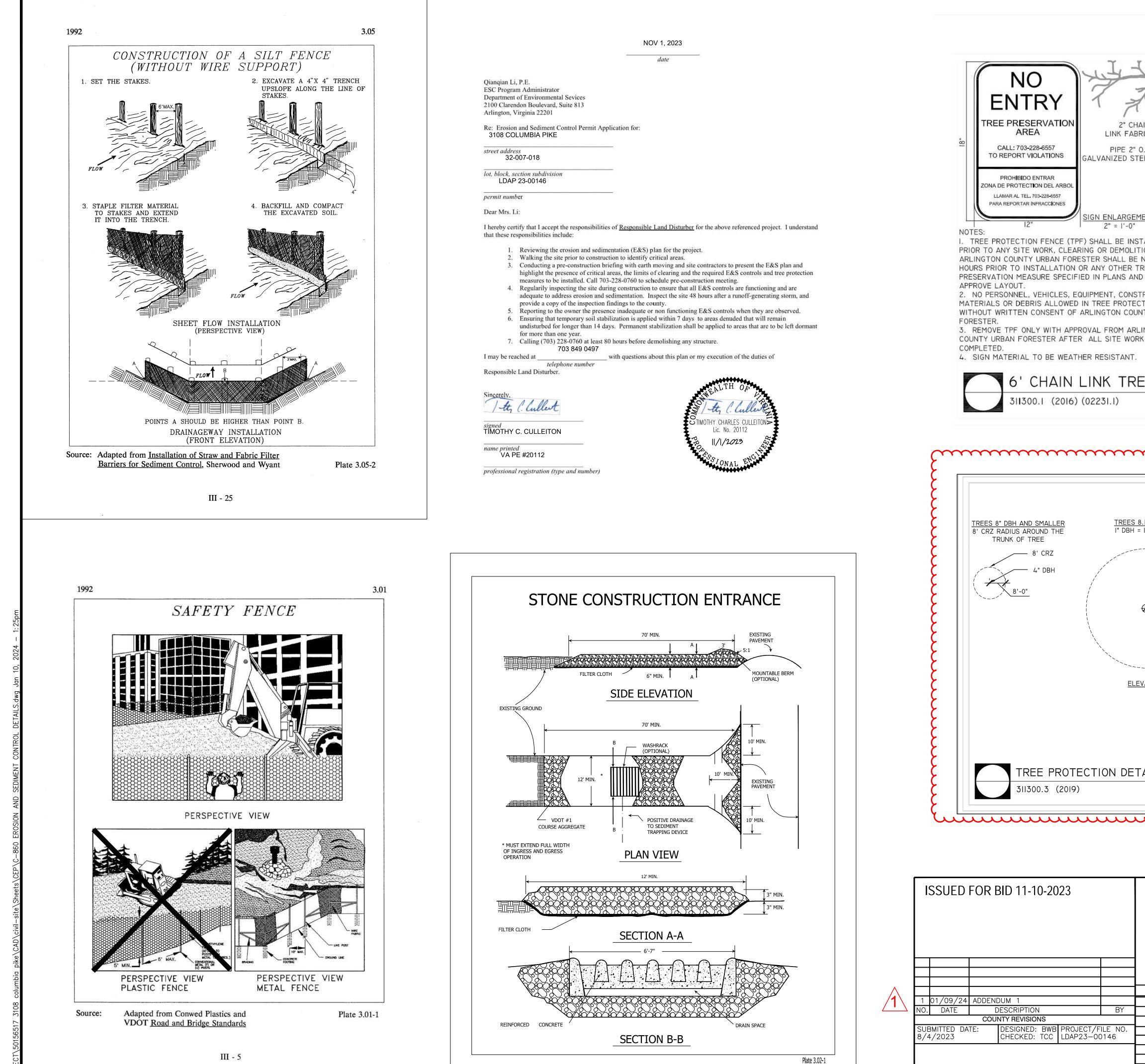
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EALTH OF	ARLINGTON COUNTY, VIRGINIA
STIMOTHY CHARLES CULLEITON Lic. No. 20112	DEPARTMENT OF ENVIRONMENTAL SERVICES MAINTENANCE OF TRAFFIC PLAN
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DEWBERRY REVISIONS	SCALE: AS-SHOWN C-800 16 OF 28

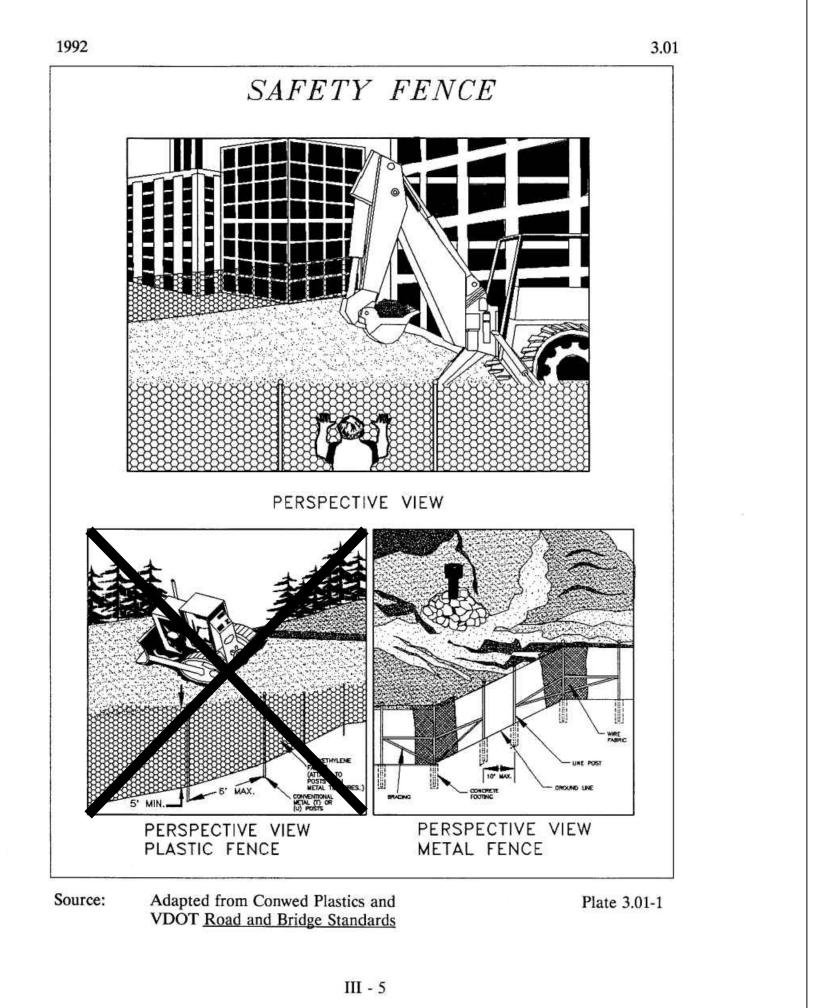


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1ENT TALLED TON. NOTIFIED 72 REE D SHALL		6'-0" MIN.	
EE PROTECTION	FENCE	1/2" = 1'-0"	
		ARLINGTON VIRGINIA DPR	
		$\mathcal{M}$	
3.1 AND LARGER : I' CRZ RADIUS	NOTES: I. GRAPHICALLY, THE CRITICAL ROOT Z REPRESENTED AS A CIRCULAR REGION M OUTWARD FROM A TREE TRUNK REPRESE AREA OF ROOTS THAT MUST BE MAINTA PROTECTED FOR THE TREE'S SURVIVAL.	EASURED	
30" DBH	2. THE CRZ OF A TREE IS THE ZONE IN MAJORITY OF THE ROOTS LAY. 95% OF OF MOST TREES WILL BE FOUND IN THE OF THE SOIL. MOST OF THE ROOTS THA NUTRIENTS AND WATER TO THE TREE A JUST BELOW THE SOIL SURFACE. THE OF A TREE'S ROOTS ARE GENERALLY PR TO THE VOLUME OF THE TREE'S CANOP' THEREFORE, IF THE ROOTS ONLY PENET LAYER OF SOIL, THEN THE ROOTS MUST FROM THE TREE, BEYOND THE EXTENSIO CANOPY.	THE ROOTS UPPER 12-18" AT SUPPLY THE RE FOUND TOTAL AMOUNT COPORTIONAL A RATE A THIN SPREAD FAR	
	3. PLOT ACCURATE TRUNK LOCATIONS GREATER THAN 3" DIAMETER AT BREAST AND/OR TREE STANDS WITHIN DEVELOP ON ALL PLANS FOR THE PROJECT AND D THEIR ESTIMATED CRITICAL ROOT ZONE	HEIGHT (DBH) 1ENT AREAS DELINEATE	
	4. PLOT ACCURATE TRUNK LOCATIONS TREES WHICH WILL HAVE THEIR CRZ AFI DEVELOPMENT AND DELINEATE THEIR ES CRITICAL ROOT ZONE.	FECTED BY	
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	EROSION AND SEDIMENT CONTROL NARRATIVE	<u>PEI</u> 1.
	PROJECT DESCRIPTION: THIS PROJECT IS LOCATED AT 3108 COLUMBIA PIKE, APPROXIMATELY 750' EAST FROM THE INTERSECTION OF S. GLEBE ROAD AND COLUMBIA PIKE. THIS PLAN PROPOSES THE DEMOLITION OF THE EXISTING BUILDING AND EXPANSION OF THE EXISTING PARKING AREA. THE SITE IS LOCATED WITHIN THE ARLINGTON BRANCH WATER SHED AND THE TOTAL DISTURBED AREA IS APPROXIMATELY 0.6105 ACRES.	2.
	<u>EXISTING SITE CONDITIONS:</u> THE PROJECT SITE CONSISTS OF A VACANT OFFICE BUILDING, PARKING LOT, AND ASSOCIATED INFRASTRUCTURE. THE MAJORITY OF THE SITE CONSISTS OF IMPERVIOUS AREA AND GENERALLY SLOPES TO THE SOUTHWEST.	
	ADJACENT PROPERTIES: THE SITE IS BOUNDED BY COLUMBIA PIKE TO THE NORTH, A CAR DEALERSHIP TO THE WEST, CONDOMINIUMS TO THE SOUTH, AND A MIX OF COMMERCIAL AND RESIDENTIAL TO THE EAST.	
	<u>OFF-SITE AREAS:</u> THERE IS NO PROPOSED OFF-SITE WORK OR DISTURBANCE PROPOSED WITH THIS PROJECT.	
	<u>EROSION AND SEDIMENT CONTROL MEASURES:</u> THE EROSION AND SEDIMENT CONTROL MEASURES FOR THIS PROJECT AREA INCLUDE SAFETY FENCE, SILT FENCE AND CONSTRUCTION ENTRANCE.	
	<u>PERMANENT STABILIZATION:</u> ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE STABILIZED WITH GRASS, MULCH OR SOD. SEE THE PROPOSED PLANS FOR ADDITIONAL INFORMATION.	
	<u>STORMWATER RUNOFF CONSIDERATIONS:</u> TOTAL LAND DISTURBANCE= 26,593 SF (0.6105 ACRES)	<u>SO</u> 1.
E	PRE-IMPROVEMENT IMPERVIOUS AREA= 19,647 SF (0.4519 ACRES) POST-IMPROVEMENT IMPERVIOUS AREA= 18,931 SF (0.4346 ACRES) DECREASED IMPERVIOUS AREA= 716 SF (0.0164 ACRES)	
	<u>SOILS INFORMATION:</u> THE FOLLOWING SOILS ARE FOUND ON SITE (SEE SOILS MAP ON SHEET 1 (COVER SHEET) FOR LOCATION) <u>SOIL#: SOIL NAME: HYDROLOGIC GROUP: ERODABILITY:</u>	THE AS N EF
	12 URBAN LAND-UDORTHENTS VARIES N/A <u>CRITICAL AREAS:</u> THERE ARE NO STEEP SLOPES OR CRITICAL AREAS LOCATED WITHIN THE LIMITS OF DISTURBANCE.	
	EROSION & SEDIMENT CONTROL PROJECT PHASING	INSF LANI
	PHASE I: 1. 1PRE-CONSTRUCTION MEETING WITH THE PROJECT OFFICER, CONTRACTOR, URBAN FORESTER, RESPONSIBLE LAND DISTURBER, AND	1. 2.
	<ul> <li>COUNTY INSPECTOR.</li> <li>2. INSTALL THE TEMPORARY CONSTRUCTION ENTRANCE IN THE LOCATION SHOWN ON THE E&amp;S PHASE I PLAN. MUD AND DEBRIS SHALL BE WASHED FROM ALL TRUCKS EXITING THE SITE. WASHWATER SHALL BE CAPTURED AND FILTERED.</li> <li>3. INSTALL TREE PROTECTION FENCE (TP) AS SHOWN ON E&amp;S PHASE I PLAN.</li> </ul>	3. 4.
	4. INSTALL PERIMETER CONTROLS AS SHOWN ON E&SC PLAN	4. 5.
	<ul> <li>PHASE II:</li> <li>1. BEGIN UTILITY CONSTRUCTION, INSTALL ALL UNDERGROUND UTILITIES AND BEGIN SITE GRADING.</li> <li>2. ONCE THE SITE IS BOUGHT TO NEAR FINAL GRADE, AND THE UTILITY CONSTRUCTION IS COMPLETE, COMMENCE CONSTRUCTION OF CURB &amp; GUTTER, STREET, SIDEWALKS, AND OTHER IMPROVEMENTS</li> </ul>	6. 7.
	3. 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.	8.
	EROSION AND SEDIMENT CONTROL MEASURES	<u>ERO</u> 1.
	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.	2.
	THE EROSION AND SEDIMENT CONTROL INSPECTOR SHALL HAVE THE AUTHORITY TO ADD OR DELETE EROSION AND SEDIMENT CONTROLS AS NEEDED IN THE FIELD.	3.
	STRUCTURAL PRACTICES	
	TEMPORARY CONSTRUCTION ENTRANCE - VESCH 3.02	
	<ol> <li>A TEMPORARY CONSTRUCTION ENTRANCE WITH A WASH RACK SHALL BE INSTALLED AT THE EXISTING ACCESS POINT TO THE SITE. DURING MUDDY CONDITIONS, DRIVERS OF CONSTRUCTION VEHICLES WILL BE REQUIRED TO WASH THEIR WHEELS BEFORE RE-ENTERING THE LOCAL ROADWAYS.</li> <li>THE ENTERANCE CHALL BE MAINTAINED IN A CONDITION WHICH WILL DREVENT TRACKING OR FLOW OF MUD ONTO DURING</li> </ol>	
	<ol> <li>THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY.</li> <li>ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE</li> </ol>	
	<ol> <li>ALL MATERIALS SPILLED, DROFFED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWATS OR INTO STORM DRAINS MOST BE REMOVED IMMEDIATELY.</li> <li>THE USE OF WATER TRUCKS TO REMOVE MATERIALS DROPPED, WASHED, OR TRACKED INTO ROADWAYS WILL NOT BE PERMITTED</li> </ol>	4.
	UNDER ANY CIRCUMSTANCES. SILT FENCE - VESCH 3.05	_
	1. 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.	5.
	<ol> <li>SILT FENCES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.</li> </ol>	6. 7.
	<ol> <li>CLOSE ATTENTION SHALL BE PAID TO THE REPAIR OF DAMAGED SILT FENCE RESULTING FROM UNDERCUTTING.</li> <li>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.</li> </ol>	GEN
	5. SEDIMENT DEPOSITS SHALL BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.	1.
	<ol> <li>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.</li> <li>STORM DRAIN INLET PROTECTION - VESCH 3.07</li> </ol>	2. 3.
	1. ALL EXISTING & PROPOSED STORM SEWER INLETS WITHIN THE PROJECT LIMITS SHALL BE PROTECTED DURING CONSTRUCTION. SEDIMENT-LADEN WATER SHALL BE FILTERED BEFORE ENTERING THE STORM SEWER INLETS. INLETS MUST NOT CAUSE FLOODING.	4. 5.
	<ol> <li>INLET PROTECTION SHALL BE INSPECTED AFTER EACH RAIN EVENT AND REPAIRS SHALL BE MADE AS NECESSARY.</li> <li>STRUCTURES SHALL BE REMOVED AND THE AREA STABILIZED WHEN THE REMAINING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.</li> </ol>	6.
	TREE PROTECTION         1. TREES SHALL BE PROTECTED PER THE REQUIREMENTS OF THE CHESAPEAKE BAY PRESERVATION ORDINANCE AND THE CURRENT	
	<ol> <li>ANSI STANDARDS FOR MANAGEMENT OF TREES AND SHRUBS DURING SITE PLANNING, SITE DEVELOPMENT, AND CONSTRUCTION.</li> <li>ALL TREES SHOWN TO BE PROTECTED ON THE PLAN ARE TO BE PROTECTED UNLESS OTHERWISE DIRECTED BY THE FORESTER. THE COUNTY'S URBAN FORESTER BE CONTACTED AT URBANFORESTRY@ARLINGTONVA.US AND ALLOWED TO INSPECT ALL TREE PROTECTION 72 HOURS PRIOR TO THE START OF CONSTRUCTION. IN SPITE OF PRECAUTIONS, SOME DAMAGE TO PROTECTED TREES MAY OCCUR. IN SUCH CASES, THE COUNTY URBAN FORESTER SHALL DIRECT THE PROJECT TO REMEDIATE DAMAGE FOLLOWING CURRENT ANSI STANDARDS, OR WORK WITH THE PROJECT TO REPLACE TREES, IF THEY ARE DAMAGED BEYOND REPAIR.</li> </ol>	
	<ol> <li><u>TEMPORARY SEEDING - VESCH 3.31</u></li> <li>ALL DENUDED AREAS, WHICH WILL BE LEFT DORMANT FOR EXTENDED PERIODS OF TIME SHALL BE SEEDED WITH FAST GERMINATING TEMPORARY VEGETATION IMMEDIATELY FOLLOWING GRADING. SELECTION OF THE SEED MIXTURE WILL DEPEND ON THE TIME OF YEAR IT IS APPLIED.</li> <li>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.</li> </ol>	

#### MANENT SEEDING - VESCH 3.32

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

IN RESOURCE PROTECTION AREAS, THE ARLINGTON COUNTY RESOURCE PROTECTION AREA SEED MIX, OR AN APPROVED EQUAL, SHALL BE APPLIED. APPLY AT 50 LBS/ACRE (2 LB/1000 SF) BETWEEN AUGUST 15TH AND MAY 15TH.

PERCENT OF MIX (%)	LATIN NAME	COMMON NAME
20	Lolium multiflorum	ANNUAL RYE
30	Elymus virginicus	VIRGINIA WILD RYE
25	Panicum clandestinum	DEER-TONGUE GRASS
15	Elymus riparius	RIVERBANK WILD RYE
5	Elymus hystrix	BOTTLEBRUSH GRASS
2	Chamaecrista fasciculata	PARTRIDGE PEA
1	Solidago rugosa	ROUGH-STEMMED GOLDENROD
1	Asclepias syriaca	COMMON MILKWEED
1	Euthamia graminifolia	GRASS-LEAVED GOLDENROD

#### DING - VESCH 3.33

SODDED AREAS SHALL BE BROUGHT TO FINAL GRADE IN ACCORDANCE WITH THE APPROVED PLANS. SOIL TESTS SHALL BE MADE TO DETERMINE THE EXACT REOUIREMENTS 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.

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

# ROSION AND SEDIMENT CONTROL MANAGEMENT MEASURES

DSCAPE / TREE PRESERVATION NOTES

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

#### D CONSERVATION NOTES:

NO DISTURBED AREA WILL REMAIN DENUDED FOR MORE THAN 7 CALENDAR DAYS UNLESS OTHERWISE AUTHORIZED BY THE INSPECTOR. 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.

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.

ELECTRIC POWER, TELEPHONE AND GAS SUPPLY TRENCHES ARE TO BE COMPACTED, SEEDED AND MULCHED WITHIN 5 DAYS AFTER BACKFILLING. 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. DURING CONSTRUCTION, STORM SEWER INLETS INSIDE THE LIMITS OF DISTURBANCE WILL BE PROTECTED BY INLET PROTECTION. 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

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.

SION & SEDIMENT CONTROL PROGRAM: THE EROSION & SEDIMENT CONTROL PLAN IS INTENDED TO ESTABLISH ENTRANCES AND PERIMETER CONTROL MEASURES WHICH INCLUDES SILT FENCE (SF), INLET PROTECTION (IP), AND OTHER CONTROLS SPECIFIED ON THE PLANS.

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.

ALL PRACTICES AND CONTROL DEVICES DESCRIBED HEREIN SHALL CONFORM TO THE CURRENT VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK (VESCH) OR ARLINGTON COUNTY STANDARDS AND SPECIFICATIONS. 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.

MEASURES TO CONTROL EROSION AND SEDIMENTATION 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.

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.

WHERE STREAM CROSSINGS ARE REQUIRED FOR EQUIPMENT, TEMPORARY CULVERTS SHALL BE PROVIDED 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. IERAL EROSION AND SEDIMENT CONTROL NOTES

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/OR ARLINGTON COUNTY STANDARDS AND SPECIFICATIONS.

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. ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO OR AS THE FIRST STEP IN CLEARING.

A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.

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 ER CONTROL PLAN TO THE OWNER FOR REVIEW AND APPROVAL BY THE PLAN APPROVING AUTHORITY.

THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION AND SEDIMENT CONT TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE PLAN APPROVING AUTHORITY

- ALL AREAS HAVE BEEN PROPERLY STABILIZED.

PRE-STORM EROSION & SEDIMENTATION CHECKLIST: DISCHARGED FROM THE SITE.

- 1. PERIMETER CONTROLS

  - MUST BE REPLACED.

THE CONSTRUCTION SITE. 2. EXPOSED SLOPES AND SOIL

- - STAKES.
- 3. STOCKPILES

UTILITY INSTALLATION

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

- 2. EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF TRENCHES.
- STABILIZATION. 6. APPLICABLE SAFETY REGULATIONS SHALL BE COMPLIED WITH.
- MAY 15TH.

10. AT THE COMPLETION OF THE CONSTRUCTION PROJECT AND PRIOR TO BOND RELEASE, ALL TEMPORARY SEDIMENT CONTROLS SHALL BE REMOVED AND ALL DENUDED AREAS SHALL BE STABILIZED. ARLINGTON COUNTY INSPECTOR TO APPROVE REMOVAL OF ALL TEMPORARY SILTATION MEASURES.

MAINTENANCE PROGRAM: THE FOLLOWING MAINTENANCE PROGRAM WILL BE IMPLEMENTED FOR THE CONTROLS SPECIFIED IN THIS NARRATIVE AND ON THE PLAN: 1. THE SITE SUPERINTENDENT OR HIS/HER REPRESENTATIVE SHALL MAKE A VISUAL INSPECTION OF ALL 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

- WITHIN 30 DAYS.

ROSIC	ON AND SEDIMENT						
ROL	MEASURES NECESSARY		<b>Devoberry®</b> Dewberry Engineers Inc. B401 ARLINGTON BLVD. FAIRFAX, VA 22031 PHONE: 703.849.0100 FAX: 703.849.0518				
	ISSUED FOR BID 11-10-2023	THALTH OF THE ALTH OF THE ALTHON THE AL	ARLINGTON COUNTY, VIRGINIA DEPARTMENT OF ENVIRONMENTAL SERVICES				
		Lic. No. 20112 Lic. No. 20112	EROSION AND SEDIMENT CONTROL NARRATIVE 3108 COLUMBIA PIKE DEMOLITION 3108 COLUMBIA PIKE ARLINGTON COUNTY, VIRGINIA 22204				
	1 01/09/24 ADDENDUM 1	DEWBERRY REVISIONS	SCALE: AS-SHOWN C-870 20 OF 28				
F	NO.     DATE     DESCRIPTION     BY       COUNTY REVISIONS       SUBMITTED DATE:     DESIGNED: BWB     PROJECT/FILE NO.       8/4/2023     CHECKED: TCC     LDAP23-00146						

ALL DISTURBED AREAS ARE TO DRAIN TO APPROVED SEDIMENT CONTROL MEASURES AT ALL TIMES DURING LAND DISTURBING ACTIVITIES AND DURING SITE DEVELOPMENT UNTIL FINAL STABILIZATION IS ACHIEVED.

8. DURING DEWATERING OPERATIONS, WATER WILL BE PUMPED INTO AN APPROVED FILTERING DEVICE. 9. THE CONTRACTOR SHALL INSPECT ALL EROSION AND SEDIMENT CONTROL MEASURES PERIODICALLY AND AFTER EACH

RUNOFF-PRODUCING RAINFALL EVENT. ANY NECESSARY REPAIRS OR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF THE EROSION CONTROL DEVICES SHALL BE MADE IMMEDIATELY. 10. ALL POST-CONSTRUCTION STORMWATER MANAGEMENT FACILITIES SHALL BE KEPT OFF-LINE UNTIL CONSTRUCTION IS COMPLETED AND

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.

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

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.

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

c. SEDIMENT THAT HAS ACCUMULATED AGAINST THE SILT FENCE SHALL BE REMOVED. ACCUMULATED SEDIMENT MUST BE REMOVED WHEN THE LEVEL REACHES ONE-HALF THE HEIGHT OF THE FENCING. d. HAY BALES OR A STONE BERM SHALL BE PLACED ACROSS THE CONSTRUCTION ENTRANCE TO PREVENT SEDIMENT FROM LEAVING

a. EXPOSED SLOPES NOT AT THE FINAL STABILIZATION PHASE SHALL BE COVERED WITH STRAW, TARPS, PLASTIC SHEETING, OR EROSION CONTROL MATTING. COVERING MATERIAL SHALL BE PROPERLY SECURED/ANCHORED.

b. CONTROLS SHALL BE INSTALLED TO PREVENT CONCENTRATED FLOW DOWN AN EXPOSED SLOPE. BERMS OR DIVERSION DIKES SHALL BE INSTALLED AT THE TOP OF CUT/EXPOSED SLOPES TO DIRECT STORM FLOW AROUND THE DISTURBED AREA.

C. EXPOSED SLOPES AT THE FINAL STABILIZATION PHASE SHALL BE STABILIZED USING SLOPE STABILIZATION PRACTICES SUCH AS SOIL STABILIZATION BLANKETS OR MATTING AS SPECIFIED IN THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK (VESCH STD & SPEC 3.36). BLANKETS OR MATS MUST BE PROPERLY SECURED AND ANCHORED TO THE SLOPE USING STAPLES, PINS, OR

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).

1. NO MORE THAN 100 LINEAR FEET OF TRENCH MAY BE OPENED AT ONE TIME.

3. EFFLUENT FROM DEWATERING OPERATIONS SHALL BE FILTERED OR PASSED THROUGH AN APPROVED SEDIMENT TRAPPING DEVICE, OR BOTH, AND DISCHARGED IN A MANNER THAT DOES NOT ADVERSELY AFFECT STREAMS OR OFF-SITE PROPERTY 4. MATERIAL USED FOR BACKFILLING TRENCHES SHALL BE PROPERLY COMPACTED IN ORDER TO MINIMIZE EROSION AND PROMOTE

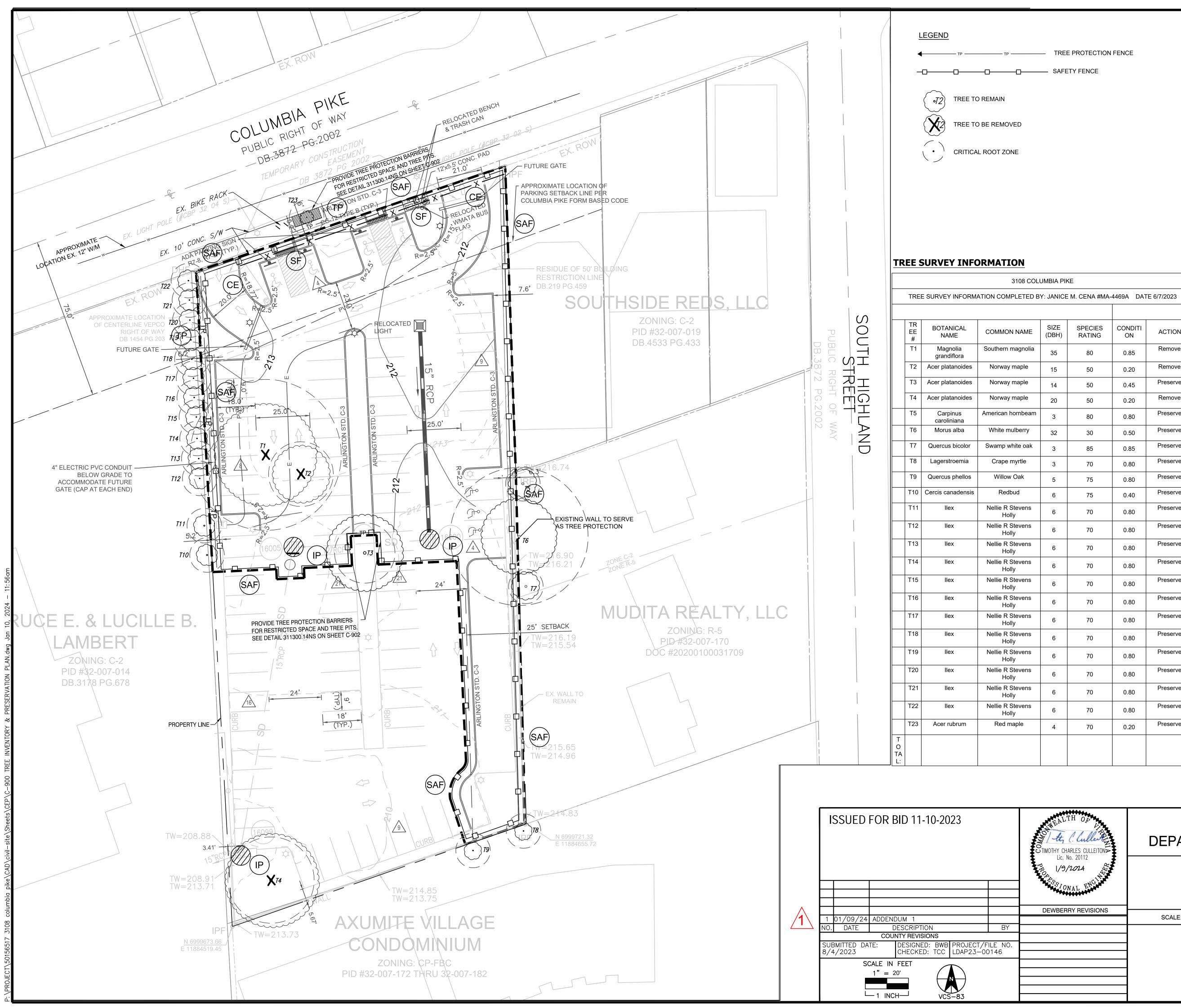
5. STABILIZATION SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THESE REGULATIONS.

9. ANY DISTURBED AREA NOT COVERED BY NOTE #1 ABOVE AND PAVED, SODDED OR BUILT UPON BY NOVEMBER 1ST, OR DISTURBED AFTER THAT DATE, SHALL BE MULCHED WITH HAY OR STRAW AT THE RATE OF 2 TONS PER ACRE AND OVER-SEEDED NO LATER THAN

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 ENTERING EXISTING SWM/BMP FACILITIES OR WATER WAYS. SHOULD OFF-SITE AREAS BECOME POLLUTED BY CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING THE AFFECTED AREAS TO THE SATISFACTION OF THE INSPECTOR.

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

AFTER CONSTRUCTION OPERATIONS HAVE ENDED, ALL DISTURBED AREAS SHALL BE STABILIZED. UPON APPROVAL OF THE COUNTY INSPECTOR, SEDIMENT CONTROLS SHALL BE REMOVED AND THE GROUND PERMANENTLY STABILIZED WITH ESTABLISHED VEGETATION

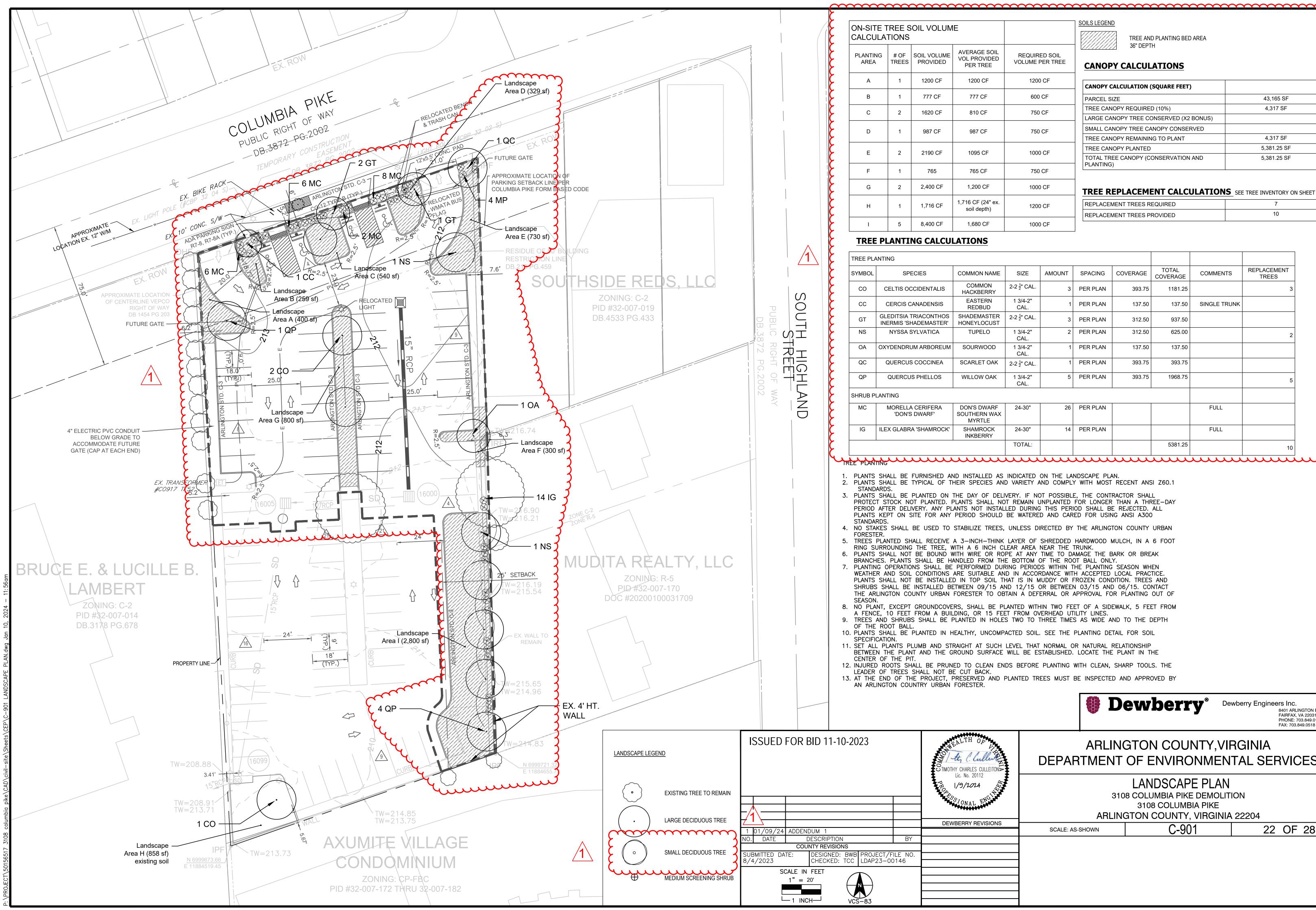


	4	70	0.20	Preserve	1		1%			STREET TREE
						7		0	0	
					<b>()</b> D	ewb	erry	P Dewbe	FAIF PHC	NC. I ARLINGTON BLVD. IFAX, VA 22031 INE: 703.849.0100 : 703.849.0518
DEPAR					GTON C		•		/ICES	
Lic. No. 20112 TO 1/9/2024				TREE INVENTORY & PRESERVATION PLAN 3108 COLUMBIA PIKE DEMOLITION 3108 COLUMBIA PIKE ARLINGTON COUNTY, VIRGINIA 22204						N
	DEWBER	RY REVISIONS		SCALE: AS-	SHOWN		C-900		21 (	DF 28

					REPLACEMEN		CRZ			
ME	SIZE (DBH)	SPECIES RATING	CONDITI ON	ACTION	T CALCULATION	REPLACEMEN T	IMPACTE D	CANOPY CONSERVED	CONSERVATIO N CREDIT	NOTES
nolia	35	80	0.85	Remove	23.80	5	100%			INSIDE LOD
ole	15	50	0.20	Remove	1.50	1	100%			INSIDE LOD
ole	14	50	0.45	Preserve	3.15				0	
ble	20	50	0.20	Remove	2	1	0			
beam	3	80	0.80	Preserve	1		25%			OFFSITE
rry	32	30	0.50	Preserve	4.80		12%			OFFSITE
oak	3	85	0.85	Preserve	1		23%			OFFSITE
le	3	70	0.80	Preserve	1		20%			OFFSITE
k	5	75	0.80	Preserve	1		20%			OFFSITE
	6	75	0.40	Preserve	1		25%			OFFSITE
ens	6	70	0.80	Preserve	1		25%			OFFSITE
ens	6	70	0.80	Preserve	1		20%			OFFSITE
ens	6	70	0.80	Preserve	1		20%			OFFSITE
ens	6	70	0.80	Preserve	1		20%			OFFSITE
ens	6	70	0.80	Preserve	1		20%			OFFSITE
ens	6	70	0.80	Preserve	1		20%			OFFSITE
ens	6	70	0.80	Preserve	1		20%			OFFSITE
ens	6	70	0.80	Preserve	1		20%			OFFSITE
ens	6	70	0.80	Preserve	1		20%			OFFSITE
ens	6	70	0.80	Preserve	1		20%			OFFSITE
ens	6	70	0.80	Preserve	1		20%			OFFSITE
ens	6	70	0.80	Preserve	1		20%			OFFSITE
9	4	70	0.20	Preserve	1		1%			STREET TREE
						7		0	0	
			•		·				·	

CANOPY CALCULATION (SQUARE FEET)	
PARCEL SIZE	43,165 SF
TREE CANOPY REQUIRED (10%)	4,317 SF
LARGE CANOPY TREE CONSERVED (X2 BONUS)	0
SMALL CANOPY TREE CANOPY CONSERVED	0
TREE CANOPY REMAINING TO PLANT	4,317 SF
TREE CANOPY PLANTED	5,381.25 SF
TOTAL TREE CANOPY (CONSERVATION AND	5,381.25 SF

PLANTING)



VOLUM	E	
VOLUME OVIDED	AVERAGE SOIL VOL PROVIDED PER TREE	REQUIRED SOIL VOLUME PER TREE
200 CF	1200 CF	1200 CF
77 CF	777 CF	600 CF
620 CF	810 CF	750 CF
87 CF	987 CF	750 CF
190 CF	1095 CF	1000 CF
765	765 CF	750 CF
400 CF	1,200 CF	1000 CF
716 CF	1,716 CF (24" ex. soil depth)	1200 CF
400 CF	1,680 CF	1000 CF

# SOILS LEGEND

TREE AND PLANTING BED AREA 36" DEPTH

#### **CANOPY CALCULATIONS**

CANOPY CALCULATION (SQUARE FEET)		
PARCEL SIZE	43,165 SF	
TREE CANOPY REQUIRED (10%)	4,317 SF	
LARGE CANOPY TREE CONSERVED (X2 BONUS)		0
SMALL CANOPY TREE CANOPY CONSERVED		0
TREE CANOPY REMAINING TO PLANT	4,317 SF	
TREE CANOPY PLANTED	5,381.25 SF	
TOTAL TREE CANOPY (CONSERVATION AND PLANTING)	5,381.25 SF	

#### TREE REPLACEMENT CALCULATIONS SEE TREE INVENTORY ON SHEET C-900 REPLACEMENT TREES REQUIRED 10 REPLACEMENT TREES PROVIDED

SYMBOL	SPECIES	COMMON NAME	SIZE	AMOUNT	SPACING	COVERAGE	TOTAL COVERAGE	COMMENTS	REPLACEMENT TREES
СО	CELTIS OCCIDENTALIS	COMMON HACKBERRY	2-2 <sup>1</sup> / <sub>2</sub> " CAL.	3	PER PLAN	393.75	1181.25		3
СС	CERCIS CANADENSIS	EASTERN REDBUD	1 3/4-2" CAL.	1	PER PLAN	137.50	137.50	SINGLE TRUNK	
GT	GLEDITSIA TRIACONTHOS INERMIS 'SHADEMASTER'	SHADEMASTER HONEYLOCUST	2-2 <sup>1</sup> / <sub>2</sub> " CAL.	3	PER PLAN	312.50	937.50		
NS	NYSSA SYLVATICA	TUPELO	1 3/4-2" CAL.	2	PER PLAN	312.50	625.00		2
OA	OXYDENDRUM ARBOREUM	SOURWOOD	1 3/4-2" CAL.	1	PER PLAN	137.50	137.50		
QC	QUERCUS COCCINEA	SCARLET OAK	2-2 <sup>1</sup> / <sub>2</sub> " CAL.	1	PER PLAN	393.75	393.75		
QP	QUERCUS PHELLOS	WILLOW OAK	1 3/4-2" CAL.	5	PER PLAN	393.75	1968.75		5
SHRUB P	LANTING								
MC	MORELLA CERIFERA 'DON'S DWARF'	DON'S DWARF SOUTHERN WAX MYRTLE	24-30"	26	PER PLAN			FULL	
IG	ILEX GLABRA 'SHAMROCK'	SHAMROCK INKBERRY	24-30"	14	PER PLAN			FULL	
			TOTAL:				5381.25		10

1. PLANTS SHALL BE FURNISHED AND INSTALLED AS INDICATED ON THE LANDSCAPE PLAN. 2. PLANTS SHALL BE TYPICAL OF THEIR SPECIES AND VARIETY AND COMPLY WITH MOST RECENT ANSI Z60.1

3. PLANTS SHALL BE PLANTED ON THE DAY OF DELIVERY. IF NOT POSSIBLE, THE CONTRACTOR SHALL PROTECT STOCK NOT PLANTED. PLANTS SHALL NOT REMAIN UNPLANTED FOR LONGER THAN A THREE-DAY PERIOD AFTER DELIVERY. ANY PLANTS NOT INSTALLED DURING THIS PERIOD SHALL BE REJECTED. ALL PLANTS KEPT ON SITE FOR ANY PERIOD SHOULD BE WATERED AND CARED FOR USING ANSI A300

4. NO STAKES SHALL BE USED TO STABILIZE TREES, UNLESS DIRECTED BY THE ARLINGTON COUNTY URBAN

RING SURROUNDING THE TREE, WITH A 6 INCH CLEAR AREA NEAR THE TRUNK. 6. PLANTS SHALL NOT BE BOUND WITH WIRE OR ROPE AT ANY TIME TO DAMAGE THE BARK OR BREAK BRANCHES. PLANTS SHALL BE HANDLED FROM THE BOTTOM OF THE ROOT BALL ONLY. 7. PLANTING OPERATIONS SHALL BE PERFORMED DURING PERIODS WITHIN THE PLANTING SEASON WHEN WEATHER AND SOIL CONDITIONS ARE SUITABLE AND IN ACCORDANCE WITH ACCEPTED LOCAL PRACTICE. PLANTS SHALL NOT BE INSTALLED IN TOP SOIL THAT IS IN MUDDY OR FROZEN CONDITION. TREES AND SHRUBS SHALL BE INSTALLED BETWEEN 09/15 AND 12/15 OR BETWEEN 03/15 AND 06/15. CONTACT THE ARLINGTON COUNTY URBAN FORESTER TO OBTAIN A DEFERRAL OR APPROVAL FOR PLANTING OUT OF

8. NO PLANT, EXCEPT GROUNDCOVERS, SHALL BE PLANTED WITHIN TWO FEET OF A SIDEWALK, 5 FEET FROM A FENCE, 10 FEET FROM A BUILDING, OR 15 FEET FROM OVERHEAD UTILITY LINES. 9. TREES AND SHRUBS SHALL BE PLANTED IN HOLES TWO TO THREE TIMES AS WIDE AND TO THE DEPTH

10. PLANTS SHALL BE PLANTED IN HEALTHY, UNCOMPACTED SOIL. SEE THE PLANTING DETAIL FOR SOIL

11. SET ALL PLANTS PLUMB AND STRAIGHT AT SUCH LEVEL THAT NORMAL OR NATURAL RELATIONSHIP BETWEEN THE PLANT AND THE GROUND SURFACE WILL BE ESTABLISHED. LOCATE THE PLANT IN THE

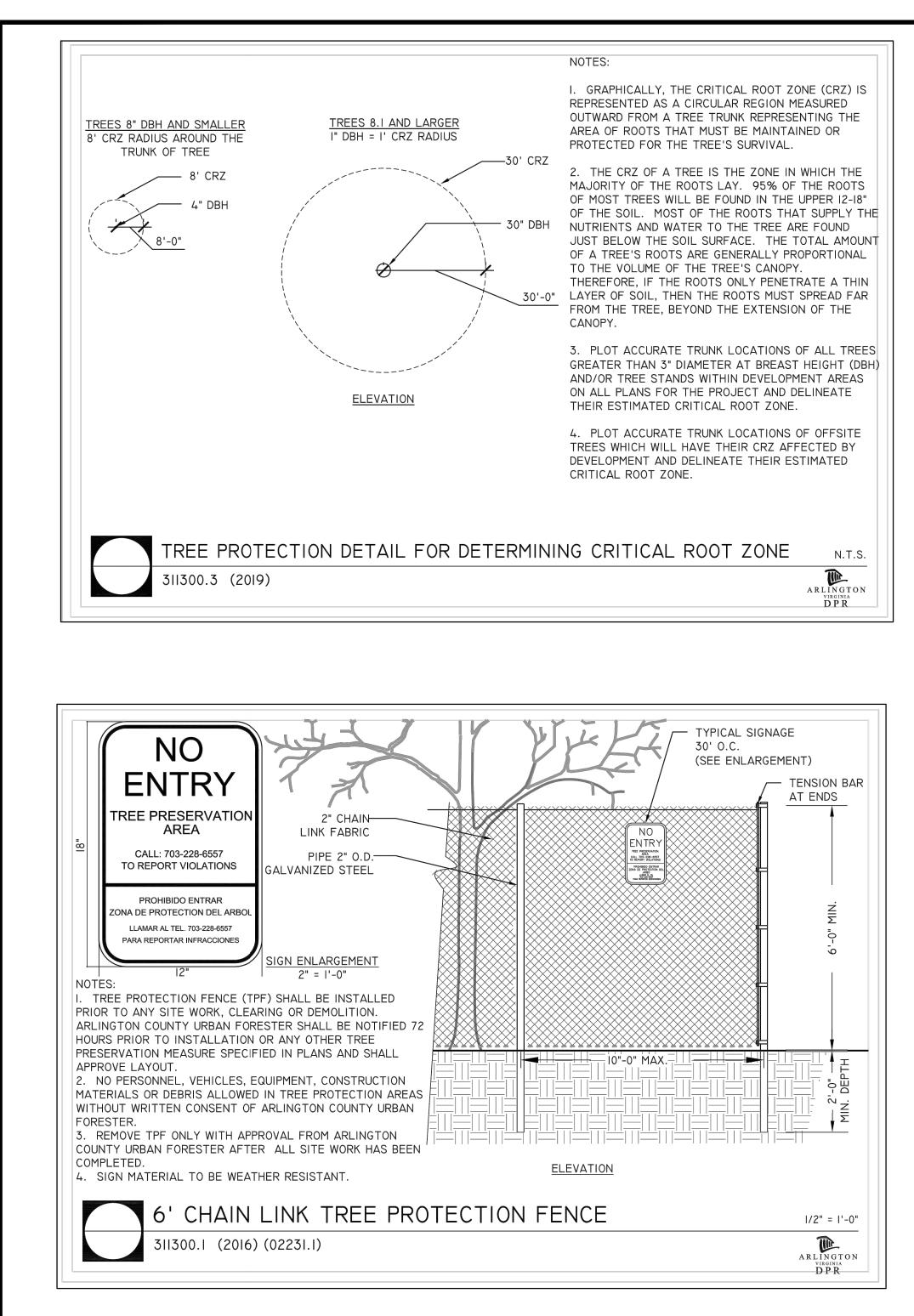
12. INJURED ROOTS SHALL BE PRUNED TO CLEAN ENDS BEFORE PLANTING WITH CLEAN, SHARP TOOLS. THE

13. AT THE END OF THE PROJECT, PRESERVED AND PLANTED TREES MUST BE INSPECTED AND APPROVED BY



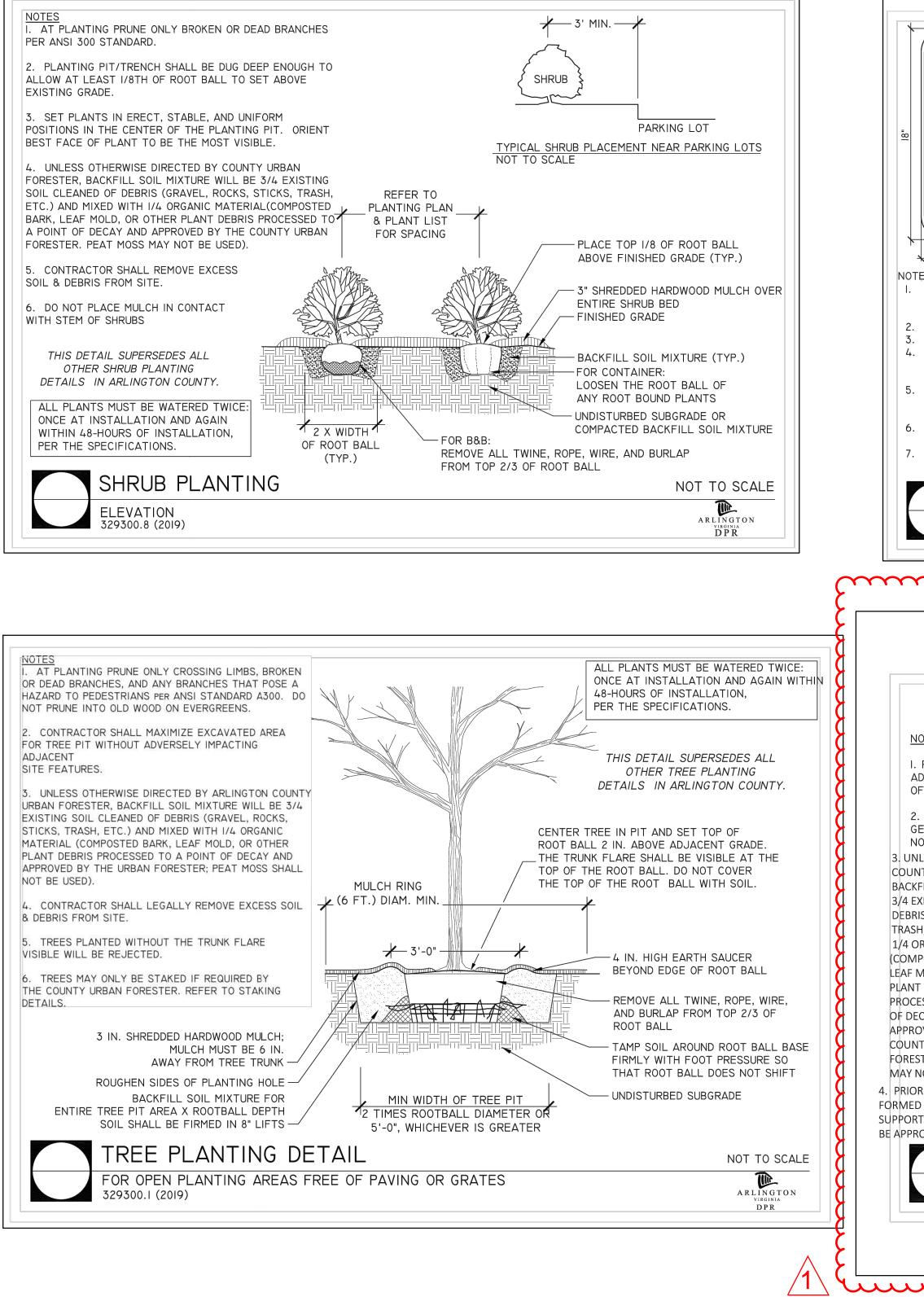
8401 ARLINGTON BLVD. FAIRFAX, VA 22031 PHONE: 703.849.0100 FAX: 703.849.0518

TIMOTHY CHARLES CULLEITON	ARLINGTON COUNTY, VIRGINIA DEPARTMENT OF ENVIRONMENTAL SERVICES						
Lic. No. 20112	LANDSCAPE PLAN 3108 COLUMBIA PIKE DEMOLITION						
ONAL WAR	3108 COLUMBIA PIKE						
	ARLING	GTON COUNTY, VIRGINIA	22204				
DEWBERRY REVISIONS	SCALE: AS-SHOWN	C-901	22 OF 28				

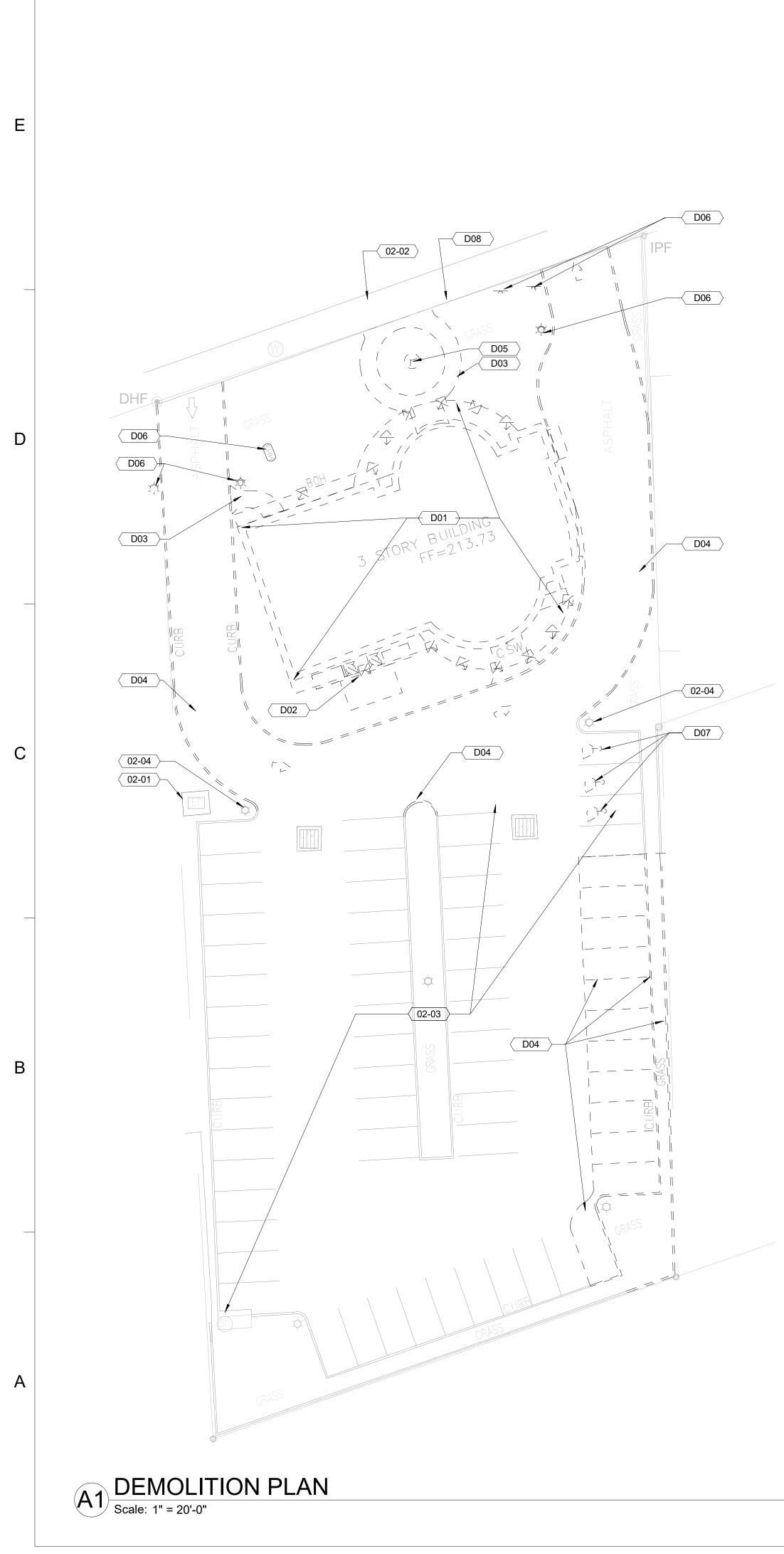


#### **TREE CONSERVATION NOTES:**

- 1. BEFORE ANY GRADING, DEMOLITION, OR OTHER DISTURBANCE, INCLUDING TREE REMOVAL, A PRECONSTRUCTION MEETING SHALL BE HELD WITH AN ARLINGTON COUNTY URBAN FORESTER. CHANGES TO THE PLAN, BASED ON FIELD CONDITIONS, MAY BE REQUESTED BY THE URBAN FORESTER AT THE TIME OF THE PRECONSTRUCTION MEETING.
- TREE PROTECTION SHALL BE INSTALLED PER PLAN, WITH ANY CHANGES REQUESTED AT THE PRECONSTRUCTION MEETING, AND INSPECTED BY AN ARLINGTON COUNTY URBAN FORESTER. EROSION AND SEDIMENT CONTROLS ARE INSPECTED BY THE DEPARTMENT OF ENVIRONMENTAL SERVICES.
- 3. REMOVAL OF TREES, NOTED FOR REMOVAL ON THE PLAN, INSIDE A TREE PRESERVATION AREA SHALL BE PERFORMED, BY HAND, WITHOUT GROUND DISTURBANCE, OR DISTURBANCE TO NEARBY PRESERVED TREES. TREES IN THESE AREAS SHALL BE CUT FLUSH TO THE GROUND, WITHOUT STUMP GRINDING.
- 4. NO CHANGES SHALL BE MADE TO TREE PRESERVATION OR PROPOSED LANDSCAPE UNLESS DIRECTED BY AN ARLINGTON COUNTY URBAN FORESTER.
- DO NOT REMOVE TREES ON OTHER PROPERTIES, OR RIGHTS-OF-WAY, WITHOUT WRITTEN PERMISSION OF THE OWNER.
   THE END OF THE OWNER.
- TREE PROTECTION AREAS SHALL HAVE ALL NON-NATIVE INVASIVE VINES REMOVED AT THE END OF THE PROJECT. WHERE DEEMED NECESSARY BY THE COUNTY URBAN FORESTER TO ENSURE TREE SURVIVAL, THE PROTECTION AREA SHALL BE COVERED WITH SHREDDED HARDWOOD MULCH, OR OTHER ORGANIC MULCH AS APPROVED BY THE COUNTY URBAN FORESTER.
   AT THE END OF THE PROJECT. PRESERVED AND PLANTED TREES MUST BE INSPECTED AND APPROVED BY
- 7. AT THE END OF THE PROJECT, PRESERVED AND PLANTED TREES MUST BE INSPECTED AND APPROVED BY AN ARLINGTON COUNTY URBAN FORESTER.



PARKING LOT PARKING LOT PARKING LOT PARKING LOT PARKING LOT PLACE TOP 1/8 OF ROOT BALL ABOVE FINISHED GRADE (TYP.) 3" SHREDDED HARDWOOD MULCH OVER ENTIRE SHRUB BED FINISHED GRADE BACKFILL SOIL MIXTURE (TYP.) FOR CONTAINER: LOOSEN THE ROOT BALL OF ANY ROOT BOUND PLANTS UNDISTURBED SUBGRADE OR COMPACTED BACKFILL SOIL MIXTURE TWINE, ROPE, WIRE, AND BURLAP 3 OF ROOT BALL NOT TO SCALE	CALL: 703-228-6557 TO REPORT VIOLATIONS PROHIBIDO ENTRAR ZONA DE PROTECTION DEL ARBOL LLAMAR AL TEL. 703-228-6557 PARA REPORTAR INFRACCIONES ILAMAR AL TEL. 703-228-6557 PARA REPORTECTION DEL ARBOL ILAMAR AL TEL. 703-228-6557 PARA REPORTECTION FENCE (TPF) WORK, CLEARING OR DEMOLITION BE NOTIFIED 72 HOURS PRIOR TO 2. TPF SHALL BE MAINTAINED THRM 3. SIGN MATERIAL TO BE WEATHER 4. TREE PROTECTION BARRIERS MU FRAME CLAD WITH PLYWOOD OR ENSURE PROTECTION IS NOT MO 5. HEIGHT OF BOARDING MAY BE LE BRANCHES THAT MAY BE LOWER BY ARLINGTON COUNTY URBAN F 6. REMOVE TPF ONLY WITH APPROV AFTER ALL SITE WORK HAS BEE 7. PROVIDE 12"(WIDTH) X4"(HEIGHT) SURFACES SUCH AS SIDEWALKS, TREE PROTECTION 311300.14NS (2019)	IROUGHOUT CONSTRUCTION. ER RESISTANT. MUST BE CONSTRUCTED WITH A SOLID WOOD OR APPROVED EQUIVALENT. SECURE BOARDS TO TOVED DURING PROJECT. LESS THAN 6 FEET TO ACCOMMODATE ANY ER. HEIGHT OF LESS THAN 6' SHALL BE APPROVED I FORESTER. OVAL FROM ARLINGTON COUNTY URBAN FORESTER EEN COMPLETED. T) CUT-OUTS ALONG PANELS FACING PAVED S, TWO CUT-OUTS PER FENCE PANEL. CTION BARRIERS FOR RESTRICTED SPACE AND TREE PITS N.T.S.
TOP OF THE ROOT BALL. DO NOT COVER THE TOP OF THE ROOT BALL WITH SOIL. 4 IN. HIGH EARTH SAUCER BEYOND EDGE OF ROOT BALL REMOVE ALL TWINE, ROPE, WIRE, AND BURLAP FROM TOP 2/3 OF ROOT BALL TAMP SOIL AROUND ROOT BALL BASE FIRMLY WITH FOOT PRESSURE SO THAT ROOT BALL DOES NOT SHIFT UNDISTURBED SUBGRADE NOT TO SCALE ARLINGTON DPR	FOR TREE PLANT 329300.4A (2016) (029	ARLING TON COUNTY. CENTER TREE IN PIT AND SET TOP OF ROOT BALL 2 IN. ABOVE ADJACENT SOIL. THE TRUNK FLARE SHALL BE VISIBLE AT THE TOP OF THE ROOT BALL. DO NOT COVER THE TOP OF THE ROOT BALL WITH SOIL. OR G WIDTH VARIES WIDTH VARIES WIDTH VARIES BACKFILL SOIL MIXTURE FOR ENTIRE TREE PIT PLANTING AREA AT DEPTH INDICATED; COMPACT TO 80-85% STD. PROCTOR IN 8" LIFTS BACKFILL SOIL MIXTURE BENEATH ROOTBALL; COMPACT TO 80-85% STD. PROCTOR BE PER- N AND WILL CTEST WILL CR STING STRIPS IN RIGHT-OF-WAY
ISSUED FOR BID 11-10-2023	DEWBERRY REVISIONS	EVALUATION OF AND TREE PRESERVATION DETAILS STOR COLUMBIA PIKE DEMOLITION STOR COLUMBIA PIKE ARLINGTON COUNTY, VIRGINIA STOR COLUMBIA PIKE DEMOLITION STOR COLUMBIA PIKE ARLINGTON COUNTY, VIRGINIA 22204 SCALE: AS-SHOWN C-902 23 OF 28



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C3 NORTH ELEVATION @ COLUMBIA PIKE Scale: N.T.S.



B3 SOUTH ELEVATION FROM PARKING LOT Scale: N.T.S.



A3 SOUTH-WEST ELEVATION FROM PARKING LOT Scale: N.T.S.





	KEYNOTES PER SHEET					
NOTE	DESCRIPTION					
02-01	EXISTING TRANSFORMER AND PAD TO REMAIN. PROTECT FROM DAMAGE DURING WORK.					
02-02	EXISTING SIDEWALK TO REMAIN EXCEPT AS NOTED ON CIVIL.					
02-03	EXISTING PAVED PARKING AREA TO REMAIN. SEE CIVIL FOR LIMITS OF DEMOLITION.					
02-04	EXISTING LIGHT POLE TO REMAIN.					
D01	DEMOLISH ALL OF THE EXISTING STRUCTURE, INCLUDING ABOVE AND BELOW GRADE ELEMENTS, OVERHANGS, AND PAVING MATERIAL UNDER OVERHANGS.					
D02	DEMOLISH EQUIPMENT AND EQUIPMENT PADS IN EXISTING MECHANCIAL YARD AREA. COORDINATE SHUT OFF AND REMOVAL OF UTILITIES FOR THE EQUIPMENT WITH THE APPLICABLE UTILITY PROVIDERS. REFER TO SPEC SECTION 024116 FOR THE REFRIGERANT RECOVERY FOR THE MECHANICAL SYSTEM PRIOR TO DEMOLITION.					
D03	DEMOLISH EXISTING SIDEWALK.					
D04	DEMOLISH EXISTING PAVING AND CURBS TO EXTENT SHOWN. REFER TO CIVIL FOR MORE INFORMATION AND EXANT LIMITS OF DEMOLITION.					
D05	DEMOLISH EXISTING FLAGPOLE IN ITS ENTIRETY, INCLUDING BELOW GRADE FOUNDATION.					
D06	SITE ELEMENT, SEE CIVIL.					
D07	REMOVE PAVEMENT MARKING AND SIGNAGE PER CIVIL.					
D08	DEMOLISH EDGE OF SIDEWALK AS REQUIRED BY CIVIL. REFER TO CIVIL.					

DEMOLITION PLAN GENERAL NOTES

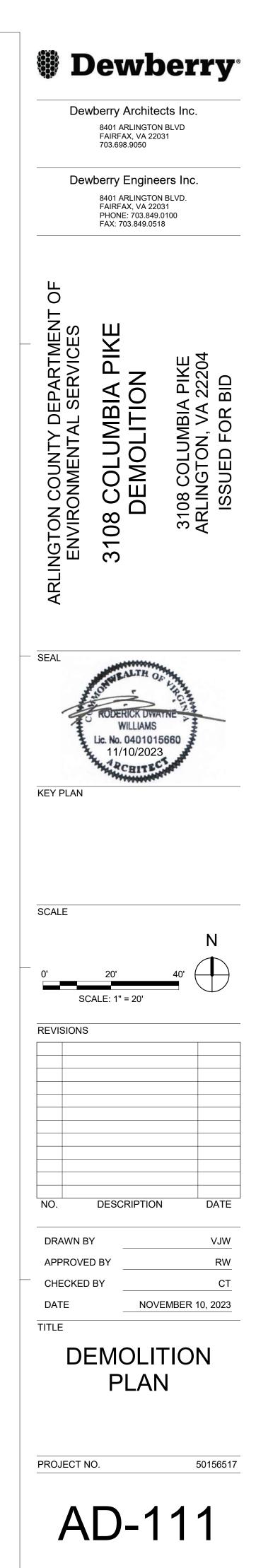
- . SITE PLAN IS SHOWN TO CONVEY THE GENERAL EXTENT OF THE EXISTING STRUCTURE TO BE DEMOLISHED. PLANS ARE BASED ON AVAILABLE EXISTING DOCUMENTATION BUT IS NOT A WARRANTY OF EXISTING CONDITIONS AT THE TIME OF CONSTRUCTION. CONTRACTOR SHALL FIELD VERIFY ALL
- CONDITIONS. DEMOLITION SCOPE INCLUDES ALL EXISTING BUILDING ELEMENTS WHETHER SHOWN OR NOT, TO INCLUDE BUT NOT LIMITED TO FOUNDATIONS AND BEARING MATERIAL, ELECTRICAL SERVICE BACK TO TRANSFORMER. . REFER TO CIVIL DRAWINGS FOR DEMOLITION SCOPE FOR SITE WORK,
- PAVEMENTS, SITE UTILITIES, TREE PRESERVATION, GRADING, AND ALL OTHER ITEMS OUTSIDE THE BUILDING ENVELOPE.
- . SEE CIVIL DWGS FOR SITE ELEMENTS TO BE DEMOLISHED, REMOVED, STORED, AND/ OR RELOCATED.



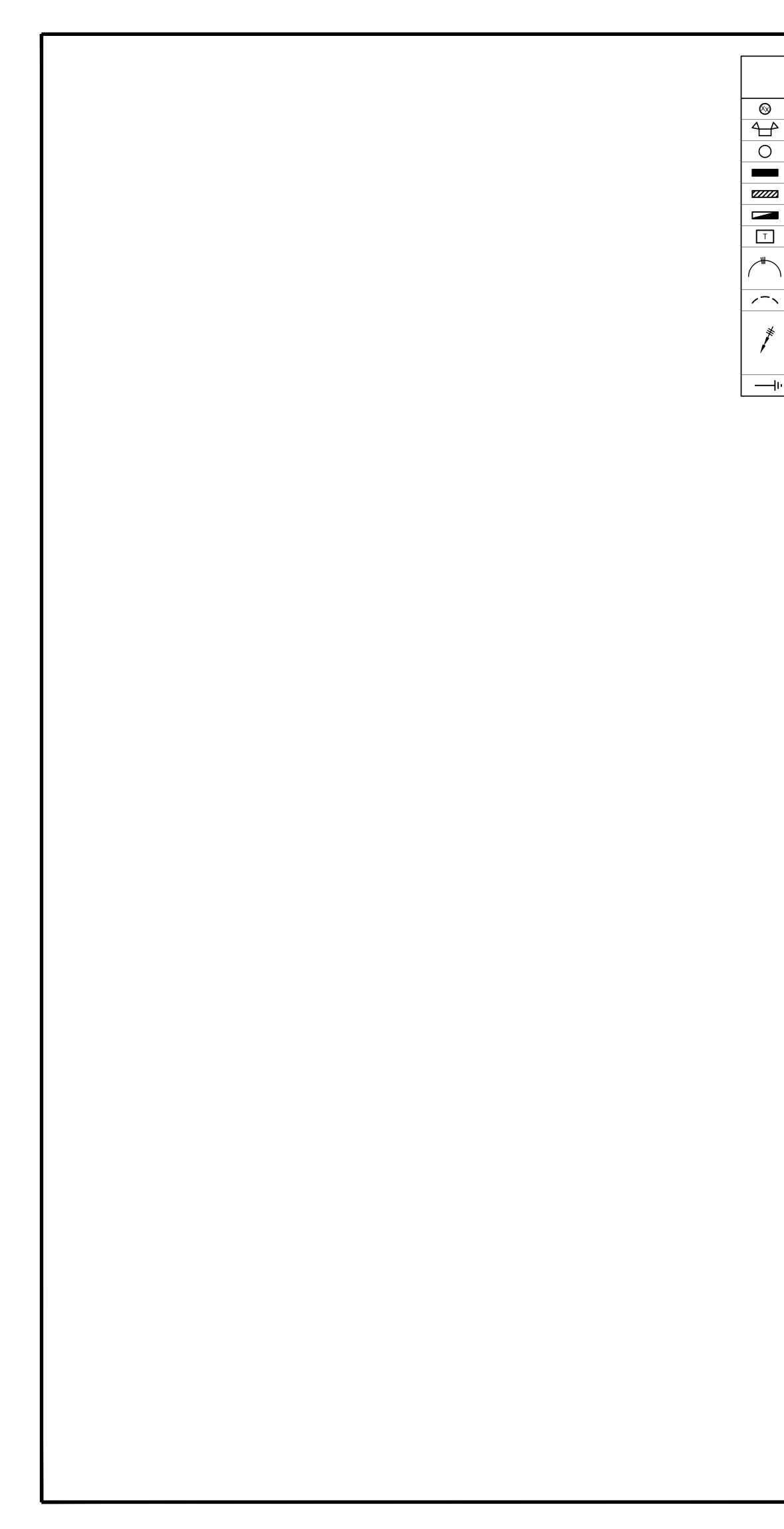
B4 EXISTING MECHANICAL YARD Scale: N.T.S.



A4 EXISTING LOBBY Scale: N.T.S.



SHEET NO.



#### 01 - ELECTRICAL LEGEND KILOWATTHOUR METER ELECTRIC PHOTOCELL WALL MOUNTED INCANDESCENT OR H.I.D. FIXTURE MOLDED CASE CIRCUIT BREAKER \_\_\_\_ Ο EXTERIOR LIGHT FIXTURE 120/208V PANELBOARD 277/480V PANELBOARD TELEPHONE CABINET T DRY TYPE TRANSFORMER - SIZE AS INDICATED BRANCH CIRCUIT WIRING CONCEALED IN CEILING OR WALL - CROSSMARKS DENOTE NUMBER OF CONDUCTORS. EMT CONDUIT WITH CONDUCTORS UNDER FLOOR HOMERUN TO PANELBOARD - NUMBER OF \* ARROWS DENOTES NUMBER OF CIRCUITS (2 SHOWN) - NUMBER OF CROSSMARKS DENOTES NUMBER OF WIRES WHEN MORE THAN TWO -GROUNDING CONDUCTOR IS NOT TYPICALLY INDICATED WITH CROSSMARK GROUND CONNECTION

## 02 - ELECTRICAL ABBREVIATIONS

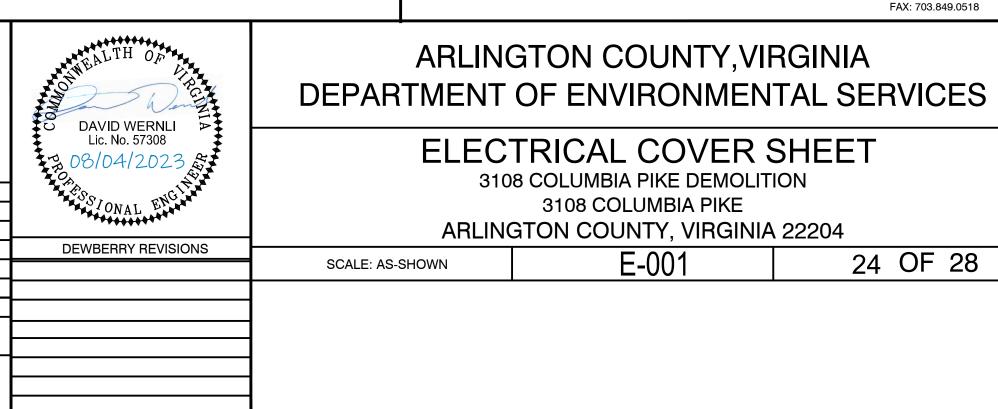
A	AMPS	IG	ISOLATED GROUND
AF	AMP FRAME	JB	JUNCTION BOX
A.F.F.	ABOVE FINISHED FLOOR	KVA	KILO-VOLT-AMPERES
AHJ	AUTHORITY HAVING JURISDICTION	кw	KILOWATT
ARCH	ARCHITECT	LAS	LIGHTNING ARRESTOR
AT	AMP TRIP	LTG	LIGHTING
ATC, BMS, EMCS	DIV. 15 CONTROLS	MCA	MINIMUM CIRCUIT AMPACITY
ATS	AUTOMATIC TRANSFER SWITCH	МСВ	MAIN CIRCUIT BREAKER
A/V	AUDIO-VISUAL	мсс	MOTOR CONTROL CENTER
BLDG	BUILDING	+ OR MH	MOUNTING HEIGHT
с	CONDUIT	МІ	MINERAL INSULATED
(C)	CEILING MOUNTED	MLO	MAIN LUGS ONLY
C/B	CIRCUIT BREAKER	МОР	MAXIMUM OVERCURRENT PROTECTION
CD	CANDELA	MS	MAIN SWITCHBOARD
СКТ	CIRCUIT	(N)	NEW
СОММ	COMMUNICATIONS	N.C.	NORMALLY CLOSED
CU	COPPER	NEC	NATIONAL ELECTRICAL CODE
DED.	DEDICATED	NF	NON-FUSED
DN	DOWN	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
DO	DITTO/DO OVER	NFSS	NON-FUSED SAFETY SWITCH
DPV	DRY PIPE VALVE CABINET	NIC	NOT IN CONTRACT
DWG.	DRAWING	N.O.	NORMALLY OPEN
(E)	EXISTING	NO OR #	NUMBER
EA	EACH	OCPD	OVERCURRENT PROTECTION DEVICE
EC	EMPTY CONDUIT	Р	POLE
ELEV.	ELEVATOR	PE	PASSENGER ELEVATOR
EMER	EMERGENCY	Ø OR PH	PHASE
EMR	ELEVATOR MACHINE ROOM	PNL	PANEL
EMT	ELECTRIC METALLIC TUBING	RECEPT	RECEPTACLE
EPO	EMERGENCY POWER OFF	RM	ROOM
EUH	ELECTRIC UNIT HEATER	SE	SERVICE ELEVATOR
EWC	ELECTRIC WATER COOLER	SN	SOLID NEUTRAL
EWH	ELECTRIC WATER HEATER	ST	SHUNT TRIP
F	FUSE	SWBD	SWITCHBOARD
FA	FIRE ALARM	TEL	TELEPHONE
F.C.A.	FAULT CURRENT AVAILABLE	TELECOM	TELECOMMUNICATIONS
F.C.R.	FAULT CURRENT RATING	THD	TOTAL HARMONIC DISTORTION
FLUOR	FLUORESCENT	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION
FPTD	FAN POWER TERMINAL DEVICE	ТҮР	TYPICAL
FSS	FUSED SAFETY SWITCH	UL	UNDERWRITERS LABORATORIES
F.T.L.	FEED THRU LUGS	U.N.O.	UNLESS NOTED OTHERWISE
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	UPS	UNINTERRUPTIBLE POWER SOURCE
GFI	GROUND FAULT INTERRUPTER	V	VOLTS ALTERNATING CURRENT
GFP	GROUND FAULT PROTECTION	VFC	VARIABLE FREQUENCY CONTROLLER
G, GND, GRD	GROUND	(w)	WALL MOUNTED
НZ	HERTZ	W/	with
HP	HORSEPOWER	WP	WEATHERPROOF
IBC	INTERNATIONAL BUILDING CODE	XFMR	TRANSFORMER

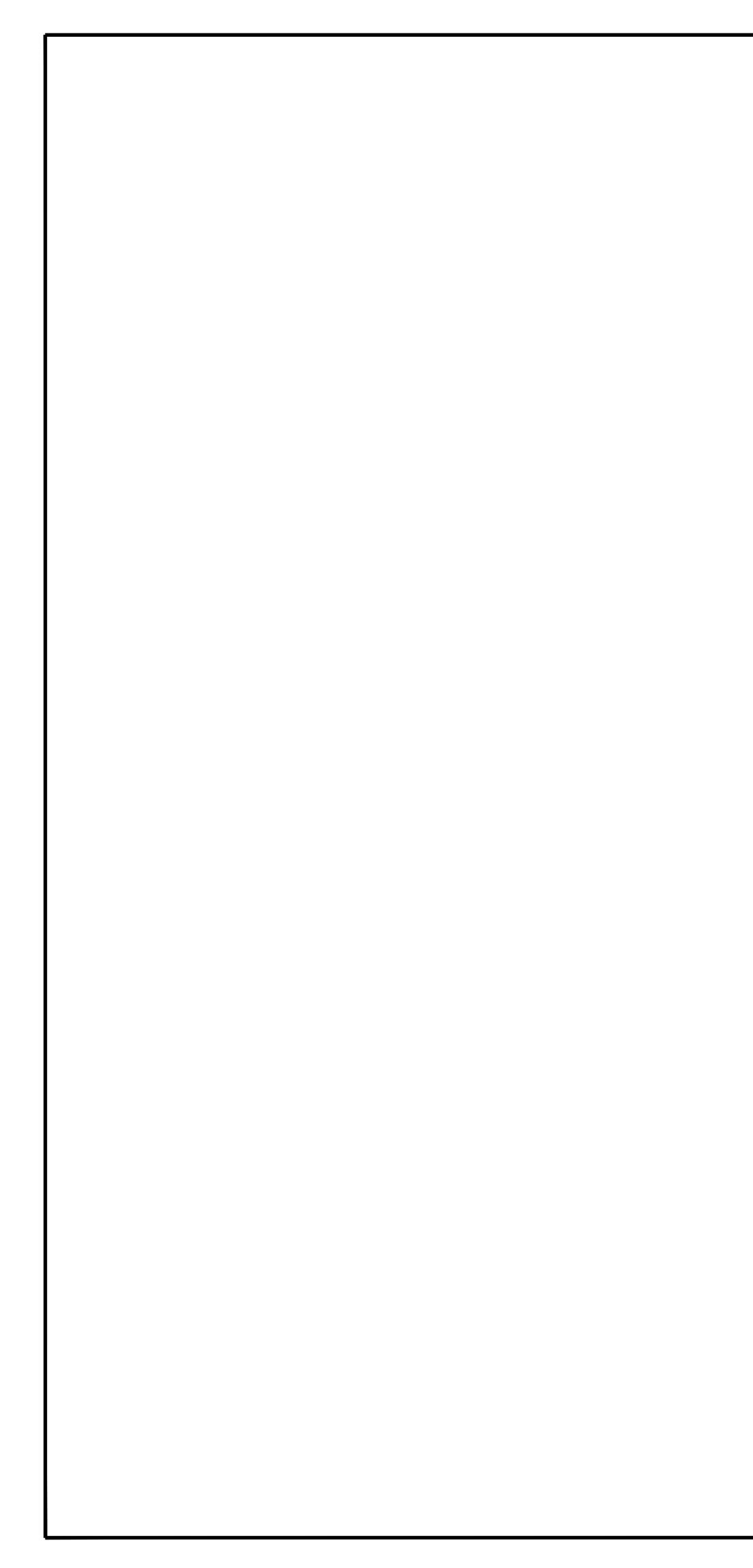
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03 - DRAWING REFERENCE SYMBOLS						
SYMBOL	DESCRIPTION					
	ТҮРЕ НЕАТ (KVA)	TERMINAL DEVICE				
1-	EQUIPMENT (KITCHEN, REPROL	BY OTHER DIVISION DUCTION EQUIPMENT FER TO SCHEDULES)				
3. <del></del>	GENERAL SPECIFIC	<u>NOTE</u>				
E0.01-01	REFERENCE NUMBER  DRAWING NUMBER  DIRECTION OF VIEW	SECTION				
01 E0-01	REFERENCE NUMBER	ETAIL/PARTIAL PLAN				
E0.01:03	DETAIL REFERENCE NUMBER	DETAIL REFERENCE				
		<u>REVISION</u>				

SHEET INDEX					
Sheet Number	Sheet Title				
E-001	ELECTRICAL COVER SHEET				
E-002	ELECTRICAL NOTES				
E-101	ELECTRICAL SITE PLAN				
E-102	LIGHTING PHOTOMETRIC SITE PLAN				
E-501	ELECTRICAL DETAILS				







#### TENANT ELECTRICAL NOTES

<u>GENERAL</u>

- 1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE AND ALL APPLICABLE LOCAL CODES AS ADOPTED AND MODIFIED BY THE LOCAL CODE AUTHORITY. REFER TO THE ARCHITECTURAL DOCUMENTS FOR ADDITIONAL CODE AND LOCAL CODE AUTHORITY REQUIREMENTS. ALL TRADES SHALL COORDINATE ON PLACEMENT OF NEW EQUIPMENT. REFER TO THE TENANT GENERAL NOTES AND TENANT DEMOLITION NOTES FOR ADDITIONAL REQUIREMENTS.
- 2. ANY ARCHITECTURAL GENERAL CONDITIONS SHALL GOVERN ALL PRODUCTS AND THE EXECUTION OF
- WORK. 3. UNLESS NOTED OTHERWISE ALL EXISTING ELECTRICAL FIXTURES AND DEVICES SHALL REMAIN (THOSE
- INSTALLED UNDER PREVIOUS CONTRACT). 4. ELECTRICAL PLANS ARE DIAGRAMMATIC ONLY; REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS, DIMENSIONS, AND METHOD OF MOUNTING FOR LIGHTING FIXTURES, FIRE ALARM DEVICES, CEILING DEVICES, RECEPTACLES, SWITCHES, EXIT SIGNS, TELEPHONE, AND DATA OUTLETS.
- 5. CONTRACTOR SHALL VISIT SITE PRIOR TO BID TO DETERMINE EXACT SCOPE OF WORK.
- 6 ALL WORK SHALL BE PERFORMED IN SUCH A MANNER TO CREATE MINIMAL POWER OUTAGES FOR THE OWNER. ALL SUCH OUTAGES SHALL BE CAREFULLY COORDINATED WITH THE OWNER SO THAT POWER TO ESSENTIAL SERVICES CAN BE MAINTAINED.
- 7 CONTRACTOR SHALL GUARANTEE HIS WORKMANSHIP AND ALL MATERIALS AND EQUIPMENT FOR A PERIOD OF ONE YEAR IN WRITING COMMENCING UPON ACCEPTANCE OF INSTALLATION BY OWNER.
- 8. CONTRACTOR SHALL MAINTAIN ACCESS, SAFETY, AND CLEANLINESS IN AREA THAT AFFECTS THE FLOW OF PEDESTRIAN TRAFFIC IN THE BUILDING, DUE TO RENOVATION.
- 9 THE CONTRACTOR SHALL GIVE ALL NECESSARY NOTICES OBTAIN ALL PERMITS AND PAY ALL GOVERNMENT SALES TAXES, FEES, AND OTHER COSTS, INCLUDING UTILITY CONNECTIONS OR 1. LIGHTING FIXTURES, REMOTE BALLASTS, REMOTE TRANSFORMERS, AND ACCESSORIES, WHETHER EXTENSIONS, IN CONNECTION WITH HIS WORK; FILE ALL NECESSARY PLANS, PREPARE ALL DOCUMENTS AND OBTAIN ALL NECESSARY APPROVALS OF ALL GOVERNMENTAL DEPARTMENTS HAVING JURISDICTION: OBTAIN ALL REQUIRED CERTIFICATES OF INSPECTION OF HIS WORK AND DELIVER SAME TO THE ARCHITECT BEFORE REQUEST FOR ACCEPTANCE AND FINAL PAYMENT FOR WORK
- 10. ALL MATERIALS AND EQUIPMENT FURNISHED FOR THIS PROJECT SHALL BE NEW EQUIPMENT SHALL BE NEW AND U.L. LISTED AS MANUFACTURED BY CUTLER HAMMER, GENERAL ELECTRIC, SQUARE D, OR SIEMENS.
- 11. SUBMITTALS SHALL INCLUDE LIGHTING FIXTURES. PANELBOARD. SUBMITTAL DATA SHALL CONTAIN ONLY INFORMATION RELEVANT TO THE PARTICULAR EQUIPMENT OR MATERIALS TO BE FURNISHED FOR THIS SPECIFIC PROJECT. CATALOG SHEETS WHICH DESCRIBE SEVERAL DIFFERENT ITEMS IN ADDITION TO THOSE ITEMS TO BE USED SHALL NOT BE SUBMITTED UNLESS RELEVANT INFORMATION IS CLEARLY MARKED. SIMILAR EQUIPMENT SHALL BE SUBMITTED IN ONE COMPLETE SUBMITTAL PACKAGE (I.E. ALL PANELBOARDS, ALL LIGHTING FIXTURES, ETC.). TOTAL NUMBER OF SUBMITTALS SHALL BE KEPT TO A MINIMUM.

DISTRIBUTION EQUIPMENT AND OVERCURRENT PROTECTION

- 1. MOLDED CASE CIRCUIT BREAKERS SHALL BE OPERATED BY A TOGGLE-TYPE HANDLE AND SHALL HAVE A QUICK-MAKE, QUICK-BREAK, OVER-CENTER SWITCHING MECHANISM THAT IS MECHANICALLY TRIP-FREE FROM THE HANDLE SO THAT THE CONTACTS CANNOT BE HELD CLOSED AGAINST SHORT CIRCUITS AND ABNORMAL CURRENTS. TRIPPING DUE TO OVERLOAD OR SHORT CIRCUIT SHALL BE CLEARLY INDICATED BY THE HANDLE AUTOMATICALLY ASSUMING A POSITION MIDWAY BETWEEN THE MANUAL ON AND OFF POSITIONS. ALL LATCH SURFACES SHALL BE GROUND AND POLISHED. POLES SHALL BE SO CONSTRUCTED THAT THEY CAN OPEN, CLOSE AND TRIP SIMULTANEOUSLY. BREAKERS SHALL BE COMPLETELY ENCLOSED IN A MOLDED CASE WITH THE AMPERE RATINGS CLEARLY VISIBLE. CONTACTS SHALL BE NON-WELDING SILVER ALLOY. BREAKERS SHALL BE UL LISTED FOR USE WITH 75°C AND 90°C INSULATED WIRE. CIRCUIT BREAKER RATINGS, MODIFICATIONS, ETC., SHALL BE AS INDICATED ON THE DRAWINGS. MOLDED-CASE CIRCUIT BREAKERS SHALL BE AS FOLLOWS:
- 1) THERMAL MAGNETIC TYPE THAT PROVIDES INVERSE TIME-DELAY OVERLOAD AND INSTANTANEOUS SHORT CIRCUIT PROTECTION BY MEANS OF A THERMAL MAGNETIC ELEMENT. 2) AMBIENT COMPENSATED STANDARD THAT PROVIDES INVERSE TIME-DELAY OVERLOAD AND INSTANTANEOUS SHORT CIRCUIT PROTECTION BY MEANS OF A THERMAL MAGNETIC ELEMENT. COMPENSATION SHALL ALLOW THE BREAKER TO CARRY RATED CURRENT BETWEEN 25°C AND 50°C WITH TRIPPING CHARACTERISTICS THAT ARE APPROXIMATELY THE SAME THROUGHOUT THIS TEMPERATURE RANGE.
- 3) MULTI-POLE BREAKERS SHALL BE OF THE COMMON TRIP TYPE HAVING A SINGLE OPERATING HANDLE, EXCEPT THAT 240-VOLT MULTI-POLE BREAKERS SMALLER THAN 50-AMPERES MAY CONSIST OF FACTORY-CONNECTED, SINGLE-POLE BREAKERS WITH A COMMON TRIP HANDLE. 4) ALL CIRCUIT BREAKERS SHALL BE FULL SIZE AND BOLT-ON.

RACEWAYS AND CONDUCTORS

- 1. ALL CONDUCTORS SHALL BE COPPER. ALL CONDUCTORS #8 AWG AND LARGER SHALL BE STRANDED. CONDUCTOR SIZES #10 AWG, #12 AWG, AND #14 AWG SHALL BE SOLID. ALL CONDUCTORS SHALL BE STANDARD CODE TYPE "THW". "THHN". "THWN" OR "XHHW" INSULATED EXCEPT AS REQUIRED OTHERWISE PER THE NEC. ALL CONDUCTORS SHALL BE DURABLY MARKED ON THE SURFACE TO INDICATE RATED VOLTAGE. INSULATION CODE, USE, MANUFACTURER, AND AWG SIZE. THE COLOR CODING SHALL BE CONTINUOUS AND SHALL EXTEND TO PANELS AND MOTORS. WHERE INSULATION COLOR CODING IS NOT AVAILABLE FOR CONDUCTORS #8 AWG AND LARGER. USE COLOR CODED PLASTIC TAPE AT EACH CONDUCTOR TERMINATION. ALL #8 AWG AND SMALLER CONDUCTORS SHALL BE SPLICED WITH PREINSULATED SPRING CONNECTORS. CONNECTORS SHALL BE SCOTCHLOCK. BUCHANAN B-CAP. OR APPROVED EQUAL. ALL #6 AWG AND LARGER COPPER CONDUCTORS TERMINATED ON LUGS OF PANELBOARDS SHALL BE TERMINATED WITH COPPER U.L. LISTED COMPRESSION CONNECTORS SUCH AS THOMAS & BETTS #54100 OR #54200 SERIES CONNECTORS. ALL #6 AWG AND LARGER COPPER CONDUCTOR TWO WAY SPLICES SHALL BE MADE WITH BARREL CONNECTORS REQUIRING COMPRESSION ON EACH END. ALL #6 AWG AND LARGER COPPER CONDUCTOR TAPPING AND PIGTAILING SHALL BE MADE USING "C" TYPE COMPRESSION TAPS SUCH AS THOMAS AND BETTS #54700 SERIES CONNECTORS. CONNECTOR SHALL BE U.L. LISTED FOR TYPE OF CONDUCTORS TO BE TAPPED. THE MANUFACTURERS RECOMMENDED INSTALLING TOOLS WITH REQUIRED NUMBER OF COMPRESSIONS SHALL BE USED FOR ALL TERMINATIONS.
- 2. ALL WIRE SIZES INDICATED ARE BASED ON DIRECT PATHS WITH 90° BENDS AS NECESSARY FROM THE OUTLET/UTILIZATION EQUIPMENT TO THE PANELBOARD WITH A MAXIMUM 2% VOLTAGE DROP ON FEEDER CONDUCTORS AND A MAXIMUM VOLTAGE DROP OF 3% FOR BRANCH CIRCUIT CONDUCTORS. WHERE FIELD CONDITIONS DO NOT ALLOW OR IF FOR ANY REASON THE ROUTE SELECTED IS DIFFERENT, THE WIRE SIZE (AND CONDUIT IF NECESSARY) SHALL BE INCREASED TO MAINTAIN THESE MINIMUM VOLTAGE DROP REQUIREMENTS AT NO ADDITIONAL COST TO THE OWNER. REGARDLESS. ALL 20 AMP, 120 VOLT HOMERUNS SHALL BE A MINIMUM #12 AWG UNLESS LENGTHS EXCEED 60', THEN CONDUCTORS SHALL BE A MINIMUM #10 AWG. ALL 20 AMP, 277 VOLT HOMERUNS SHALL BE A MINIMUM #12 AWG UNLESS LENGTHS EXCEED 165'; THEN CONDUCTORS SHALL BE A MINIMUM #10 AWG.
- 3. THE ACTUAL NUMBER OF WIRES REQUIRED MAY NOT BE INDICATED FOR ALL CIRCUITS, ONLY THOSE WHERE CLARIFICATION IS NECESSARY. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL WIRES NECESSARY FOR THE PROPER FUNCTION OF THE SYSTEM WHETHER INDICATED ON THE DRAWINGS OR NOT AT NO ADDITIONAL COST.
- 4. ALL RIGID, EMT AND FLEXIBLE CONDUIT SHALL BE U.L. LISTED. ALL CONDUIT SHALL BE SUITABLE FOR THE INTENDED SERVICE AND LOCATION. ANY MATERIALS LOCATED WITHIN ENVIRONMENTAL AIR PLENUMS SHALL BE U.L. LISTED FOR THE APPLICATION OR APPROVED IN WRITING BY ALL APPLICABLE LOCAL CODE AUTHORITIES. THE CONTRACTOR SHALL COORDINATE ALL RACEWAY SYSTEM COMPONENTS AND LOCATIONS WITH ALL NEW WORK. CONTRACTOR SHALL COORDINATE WITH WORK OF OTHER TRADES. CONTRACTOR SHALL COORDINATE WITH ALL EQUIPMENT, ARCHITECTURAL AND STRUCTURAL ELEMENTS, PLENUM AND CHASE LIMITATIONS AND REQUIREMENTS OF DRAWINGS AND SPECIFICATIONS. CONTRACTOR IS RESPONSIBLE FOR TIMELY PLACEMENT OF SLEEVES, CUTTING AND PATCHING OF NEW CONSTRUCTION TO FIT WORK OF THIS SECTION, LOCATION OF CHASE SPACE FOR VERTICAL ROUTING OF RACEWAY SYSTEMS AND LOCATION OF PLENUM SPACE FOR HORIZONTAL ROUTING OF RACEWAY SYSTEMS. DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK. DRAWINGS ARE NOT TO BE SCALED. IN PREPARATION OF THE DRAWINGS, A REASONABLE EFFORT TO COORDINATE RACEWAY SYSTEMS HAVE BEEN MADE, HOWEVER, SPACE REQUIREMENTS, EQUIPMENT ARRANGEMENTS, AND SITE CONDITIONS VARY, AND THE RESPONSIBILITY FOR ACCESS, LOCATION, PROPER FIT AND TIMELY COMPLETION RESTS WITH THE CONTRACTOR.

ALL EXTERIOR CONDUIT SHALL BE HOT DIPPED GALVANIZED STEEL OR ALUMINUM 'EMT' WITH GALVANIZED COMPRESSION CONNECTORS, UNLESS EXPOSED TO STRIKING OR HARM AND THEN CONDUIT SHALL BE RIGID STEEL.

ISSUED FOR BID 11-10-2023	DAVID WERNLI	ARLINGTON COUNTY, VIRGINIA DEPARTMENT OF ENVIRONMENTAL SERVICES ELECTRICAL NOTES 3108 COLUMBIA PIKE DEMOLITION 3108 COLUMBIA PIKE ARLINGTON COUNTY, VIRGINIA 22204			
	C DAVID WERNLI Lic. No. 57308 C D8/04/2023 C S/ONAL ENCL				
	DEWBERRY REVISIONS	SCALE: AS-SHOWN	E-002	25 OF 28	
NO. DATE DESCRIPTION BY COUNTY REVISIONS					
SUBMITTED DATE:DESIGNED:EHPROJECT/FILENO.8/3/2023CHECKED:DWLDAP23-00146					
SCALE IN FEET 1" = 20'					
1 INCH VCS-83					

5. FURNISH JUNCTION AND PULL BOXES WHERE REQUIRED BY THE CODE OR WHERE INDICATED OR REQUIRED TO FACILITATE PULLING WIRES REGARDLESS OF WHETHER SHOWN ON THE DRAWINGS OR NOT AT NO ADDITIONAL COST. BOXES SHALL BE STEEL. HOT-DIPPED GALVANIZED AFTER FABRICATION, AND SHALL HAVE INDUSTRY STANDARD KNOCKOUTS NECESSARY TO ACCOMMODATE THE CONDUITS AT POINT OF INSTALLATION. SECTIONALIZED BOXES SHALL BE USED WHEREVER POSSIBLE TO GROUP ADJACENT DEVICES UNDER A SINGLE PLATE. ALL BOXES SHALL HAVE LUGS OR EARS INSIDE TO SECURE COVERS. OUTLET BOXES SHALL BE DEEP TYPE. FOUR INCH SQUARE, AND HAVE DEVICE COVERS WITH CENTER OPENINGS AS REQUIRED. OUTLET BOXES FOR EXPOSED SWITCHES, RECEPTACLES, AND PULL BOXES SHALL BE OF THE CAST ALUMINUM "CONDULET" TYPE CROUSE-HINDS STONCO OR EQUAL EXPOSED SHALL BE DEFINED AS LOCATED IN VIEW OF A PERSON WITHIN OR OUTSIDE OCCUPIABLE SPACE NOT CONCEALED WITHIN PLENUM OR WALL SPACES. EXPOSED SHALL INCLUDE BOTH INTERIOR AND EXTERIOR LOCATIONS WHERE SURFACE MOUNTING OR CONDUIT SUPPORTED STAND ALONE BOXES ARE REQUIRED. OUTLET BOXES IN OUTDOOR OR WET LOCATIONS SHALL ALSO HAVE GASKETED WEATHERPROOF ALUMINUM CAST-METAL COVERS WITH INDIVIDUAL GASKETED SPRING-LATCHED HINGED OUTLET COVERS. OUTLET BOXES FOR 20 AMPERE 120 VOLT OR 277 VOLT CIRCUITS SHALL HAVE A GREEN INSULATED #12 AWG SOLID COPPER CONDUCTOR GROUNDING PIGTAIL WITH GROUND SCREW.

6. THE TENANT RENOVATION EQUIPMENT GROUNDING SYSTEM SHALL CONSIST OF THE ELECTRICALLY CONTINUOUS METALLIC CONDUIT SYSTEM TOGETHER WITH INSULATED EQUIPMENT GROUNDING CONDUCTORS. EVERY ITEM OF EQUIPMENT SERVED BY THE ELECTRICAL SYSTEM SHALL BE BONDED. TO THE BUILDING EQUIPMENT GROUND. THE EQUIPMENT GROUNDING SYSTEM SHALL BE DESIGNED SO ALL METALLIC STRUCTURES, ENCLOSURES, RACEWAYS, JUNCTION BOXES, OUTLET BOXES CABINETS, MACHINE FRAMES, PORTABLE EQUIPMENT AND OTHER CONDUCTIVE ITEMS IN CLOSE PROXIMITY WITH ELECTRICAL CIRCUITS OPERATE CONTINUOUSLY AT GROUND POTENTIAL AND PROVIDE A LOW IMPEDANCE PATH FOR POSSIBLE GROUND FAULT CURRENTS. THE SYSTEM SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE. ALL BRANCH CIRCUITS AND FEEDERS SHALL HAVE A GREEN INSULATED EQUIPMENT GROUNDING CONDUCTOR SIZED IN ACCORDANCE WITH THE NEC.

SHOP DRAWING SUBMITTAL REQUIREMENTS:

LIGHTING

I HEREBY CERTIFY THAT THIS SHOP DRAWING, PRODUCT DATA, AND/OR SAMPLE HAS BEEN CHECKED PRIOR TO SUBMITTAL AND THAT IT HAS BEEN COORDINATED WITH EXISTING CONDITIONS AND COMPLIES IN ALL RESPECTS WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS AND PHYSICAL SPACE LIMITATIONS FOR THE PROJECT.

(NAME OF THE SUBCONTRACTOR) SIGNED:

\_\_\_\_\_

NAME:	
POSITION:	

DATE:

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INDICATED IN THE LIGHTING FIXTURE SCHEDULE OR NOT AND LOCATED IN A DAMP OR WET LOCATION AS DEFINED BY THE NEC, SHALL BE UL LISTED FOR DAMP OR WET LOCATION ACCORDINGLY.

CONTRACTOR SHALL PROVIDE ELECTRICAL SHOP DRAWING SUBMITTAL PACKAGES AS REQUIRED FOR THIS PROJECT THE ELECTRICAL SHOP DRAWING SUBMITTAL PACKAGE SHALL BE SUBMITTED TO THE ENGINEER UNDER ONE SUBMITTAL PACKAGE. REFER TO THE ELECTRICAL NOTES AND DOCUMENTS FOR ADDITIONAL SUBMITTAL PACKAGE INFORMATION AND REQUIREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF ENGINEERING REVIEW TIME ASSOCIATED WITH THE RE-REVIEW OF INCOMPLETE AND/OR INACCURATE SUBMITTAL DATA AND FOR SUBMITTING MULTIPLE PACKAGES OF EACH DISCIPLINE ALL SHOP DRAWING SUBMITTAL DATA WITHIN FACH SUBMITTAL PACKAGE SHALL BE CERTIFIED BY THE OWNER. PARTNER. CORPORATE OFFICER. OR OTHER PERSON DULY AUTHORIZED TO SIGN LEGALLY BINDING DOCUMENTS FOR THE CONTRACTOR(S). THE CERTIFICATION STATEMENT SHALL READ EXACTLY AS FOLLOWS:

> O (2) WEEKS, EXCLUSIVE OF TRANSMITTAL TIME, WILL BE REQUIRED E EACH TIME A SHOP DRAWING, PRODUCT DATA AND/OR SAMPLES BMITTED FOR REVIEW. THIS TIME PERIOD WILL COMMENCE ONCE DUCT DATA AND/OR SAMPLES ARE RECEIVED IN THE ENGINEER'S N THE SHOP DRAWING. PRODUCT DATA AND/OR SAMPLES BEING FR'S OFFICE BEFORE 3:00 PM IF THE SHOP DRAWING PRODUCT RE RECEIVED IN THE ENGINEER'S OFFICE AFTER 3:00 PM, THE TIME INTIL THE NEXT BUSINESS DAY. THIS TIME PERIOD SHALL BE TRACTOR WHEN SCHEDULING THE WORK.

SHOP DRAWING AND PRODUCT DATA - SUBMITTAL REVIEW STATUS:

DUCT DATA SUBMITTALS WILL BE RETURNED MARKED "REVIEWED WED EXCEPTIONS NOTED", "INFORMATION ONLY", "REVISE AND

IF STAMPED "REVISE AND RESUBMIT" OR "REJECTED", THE SHOP DRAWING OR PRODUCT DATA SHALL BE REVISED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. JE MARKED "REVIEWED. EXCEPTIONS NOTED" DOCUMENTATION THAT ADDRESSES ONLY THE NOTED EXCEPTIONS IN THE FORM OF A LETTER, SUPPLEMENTAL INFORMATION, OR COMPLETE RESUBMITTAL SHALL BE FORWARDED TO THE OWNER, ARCHITECT AND ENGINEER FO RECORD PURPOSES ONLY. IF MARKED "REVIEWED NO EXCEPTIONS" OR "INFORMATION ONLY" NO ADDITIONAL SUBMITTAL WILL BE REQUIRED.

IF THE COPY STAMPED "REVIEWED NO EXCEPTIONS" OR "INFORMATION ONLY" IS ALTERED FOR ANY REASON AFTER IT HAS BEEN STAMPED, THE "REVIEWED NO EXCEPTIONS" OR "INFORMATION ONLY" SHALL AUTOMATICALLY BE VOIDED AND THE SUBMITTAL STATUS REVISED TO "REVIEWED EXCEPTIONS NOTED", "REVISE AND RESUBMIT", OR "REJECTED"

ALL WORK SHALL BE DONE IN ACCORDANCE WITH SHOP DRAWINGS STAMPED "REVIEWED NO EXCEPTIONS", "REVIEWED EXCEPTIONS NOTED", OR "INFORMATION ONLY" INSOFAR AS THESE ARE IN AGREEMENT WITH THE CONTRACT DOCUMENTS. WHEREVER DIFFERENCES OCCUR BETWEEN THE SHOP DRAWINGS AND THE CONTRACT DOCUMENTS, THE CONTRACT

#### ELECTRICAL DEMOLITION NOTES

- 1. THE CONTRACTOR SHALL REMOVE SUCH EXISTING WORK AS CALLED FOR ON THE DRAWINGS OR AS REQUIRED TO CLEAR THE AREAS OF NEW CONSTRUCTION. 2. WHERE EXISTING EQUIPMENT IS TO BE RELOCATED, EXTREME CARE SHALL BE TAKEN TO PREVENT
- DAMAGE DURING THE REMOVAL AND REINSTALLATION. WHERE DAMAGE OCCURS, THE EQUIPMENT SHALL BE REPLACED OR REPAIRED TO THE SATISFACTION OF THE ARCHITECT, AT NO ADDITIONAL COST TO THE OWNER. ALL ITEMS SHALL BE THOROUGHLY CLEANED, RELAMPED AND IF REQUIRED, PAINTED BEFORE BEING INSTALLED AT THEIR NEW LOCATION.
- 3. ALL EQUIPMENT REMOVED THAT IS NOT BEING REUSED SHALL REMAIN THE PROPERTY OF THE OWNER AND SHALL BE STORED OR DISPOSED OF AS DIRECTED.
- 4. EXCEPT AS OTHERWISE NOTED, ALL EXISTING ELECTRICAL WORK WHICH WILL NOT BE RENDERED OBSOLETE AND WHICH MAY BE DISTURBED DUE TO ANY CHANGES REQUIRED UNDER THIS CONTRACT, SHALL BE RESTORED TO ITS ORIGINAL OPERATING CONDITION. OTHER ELECTRICAL WORK OR MATERIAL RENDERED OBSOLETE SHALL BE ABANDONED WHERE CONCEALED AND REMOVED WHERE EXPOSED. OLD UNUSED WIRING AND DEVICES SHALL BE CONCEALED AND REMOVED WHERE EXPOSED. OLD UNUSED WIRING AND DEVICES SHALL BE REMOVED FROM THE ABANDONED (CONCEALED) CONDUITS. OUTLETS SHALL BE PROVIDED WITH BLANK COVERS. ANY CONDUITS STUBBED OUT OF MASONRY SURFACE SHALL BE CUT INTO SURFACE AND PATCHED.
- WHERE EXISTING ELECTRICAL WORK INTERFERES WITH NEW WORK AND WHERE SUCH INSTALLATIONS ARE TO REMAIN IN USE, THE INSTALLATIONS SHALL BE DISCONTINUED AND RELOCATED AND/OR RECONNECTED TO COORDINATE WITH THE WORK INDICATED ON THE CONTRACT DRAWINGS AND AS SPECIFIED.
- 6. WHERE EXISTING RACEWAYS THAT ARE NOT TO BE REUSED INTERFERE WITH NEW WORK, THESE RACEWAYS SHALL BE REMOVED BACK TO THE NEAREST JUNCTION BOX OR PULL BOX AND THE OPENINGS BLANKED.
- 7. EXISTING RACEWAYS AND/OR WIRING MAY BE REUSED WHERE PRACTICABLE. EXCEPT AS OTHERWISE INDICATED, PANELBOARD CABINETS SHALL NOT BE USED FOR OTHER PURPOSES THAN CIRCUIT PROTECTION AND DISTRIBUTION POINTS AND SHALL NOT BE USED AS JUNCTION OR PULL BOXES.
- 8. ALL WORK SHALL BE PERFORMED IN SUCH A MANNER TO CREATE MINIMAL POWER OUTAGES FOR THE OWNER. ALL SUCH OUTAGES SHALL BE CAREFULLY COORDINATED WITH THE OWNER SO THAT POWER TO ESSENTIAL SERVICES CAN BE MAINTAINED.
- 9. CONTRACTOR SHALL MAINTAIN CONTINUITY OF BRANCH CIRCUITS SERVING MULTIPLE ITEMS OF WHICH ONE OR MORE ARE BEING DEMOLISHED. CONDUCTORS AND CONDUITS FOR THOSE ITEMS BEING DEMOLISHED SHALL BE REMOVED AS FAR AS PRACTICABLE.
- 10. IT SHALL BE THE CONTRACTORS, RESPONSIBILITY TO REMOVE ALL EXISTING ELECTRICAL EQUIPMENT NOT REUSED OR NOT NECESSARY FOR THE COMPLETION OF THIS PROJECT.
- 11 ALL FOUIPMENT INDICATED TO REMAIN IN PLACE SHALL REMAIN IN NORMAL OPERATION AT ALL TIMES DURING CONSTRUCTION. IF ANY BRANCH CIRCUIT WIRING FEEDING THIS EQUIPMENT IS DAMAGED DURING CONSTRUCTION. THE CONTRACTOR SHALL REPLACE WITH NEW BRANCH CIRCUIT WIRING OF THE SAME SIZE AND TYPE AS EXISTING AT NO COST TO THE OWNER.
- 12. REFER TO THE GENERAL NOTES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.



8401 ARLINGTON BLVD.

FAIRFAX, VA 22031 PHONE: 703.849.0100 FAX: 703.849.0518



#### GENERAL NOTES:

- 1. TEST PITS ARE TO BE UTILIZED FOR POLE FOUNDATIONS WITH POTENTIAL UTILITY CONFLICTS BEFORE EXCAVATION. ENGINEER OF RECORD IS TO BE NOTIFIED IF CONFLICTS ARE IDENTIFIED.
- 2. ALL NEW BRANCH CIRCUIT WIRING SHALL BE 2#8+#8G IN 1" SCH40 PVC CONDUIT, U.O.N. CONDUCTOR INSULATION SHALL BE TYPE XHHW OR RHW2. INSTALL MINIMUM OF 24" BELOW GRADE. PROVIDE METAL TRACE-TAPE ABOVE ALL NON-METALLIC CONDUIT.
- 3. CONDUIT SHOWN AS THIN AND GRAY IS EXISTING UNDERGROUND CONDUIT.

#### KEY NOTES

- 1. PROVIDE NEW UTILITY METER BASE, SERVICE DISCONNECT, AND LOAD CENTER "PNL-SITE". COORDINATE METER AND UTILITY INTERFACE REQUIREMENTS WITH ELECTRICAL UTILITY PROVIDER. REFER TO DETAIL 1, E-501 FOR FURTHER INFORMATION. CONFIRM VOLTAGE FOR LIGHTS IN FIELD AND COORDINATE SERVICE VOLTAGE APPROPRIATELY.
- 2. EXISTING UTILITY TRANSFORMER.
- 3. PROPOSED ELECTRICAL FROM EXISTING UTILITY TRANSFORMER. PROVIDE (2) 4"C DIRECT-BURIED FROM UTILITY POLE BASE TO METER BASE LOCATION. COORDINATE EXACT REQUIREMENTS AND ROUTING WITH ELECTRICAL UTILITY. REFER TO DETAIL 3, E-501 FOR CONDUIT ARRANGEMENT. CONDUCTORS AND TIE-IN FROM UTILITY TRANSFORMER TO METER BASE BY UTILITY. COORDINATE ROUTING AND ADDITIONAL REQUIREMENTS WITH UTILITY.
- 4. PROVIDE CIRCUITING FOR LIGHTING FIXTURES ROUTED BELOW GRADE. PROVIDE 2#8+#8G IN 1" CONDUIT . CIRCUIT SHALL EXIT SERVICE DISCONNECT AND ROUTE TO NEAREST LIGHTING FIXTURE. MAINTAIN MINIMUM 24" OF COVER AT ALL TIMES. REFER TO DETAIL 6, E-501 FOR CONNECTION TO LIGHTING FIXTURE POLE BASE.
- 5. NEW LOCATION OF RELOCATED POLE-MOUNTED LIGHTING FIXTURE. REFER TO DETAIL 6, E-501 FOR MOUNTING, GROUNDING, AND CIRCUITING DETAIL.
- PROVIDE GROUNDING ELECTRODES FROM MAIN SYSTEM BONDING JUMPER AND GROUND BUS. REFER TO DETAIL 2, E-501 FOR FURTHER INFORMATION.
- 7. EXISTING DUAL-HEAD LIGHT FIXTURE AND POLE SHALL BE RELOCATED. REFER TO DRAWING FOR NEW LOCATION. DEMOLISH EXISTING BASE AND ASSOCIATED CONDUIT.
- 8. DEMOLISH EXISTING SINGLE-HEAD LIGHTING FIXTURE, POLE AND BASE AND ASSOCIATED CONDUIT.
- 9. PROVIDE CIRCUITING FOR LIGHTING FIXTURES ROUTED BELOW GRADE. PROVIDE 2#8+#8G IN 1" CONDUIT . REFER TO DETAIL 6, E-501 FOR CONNECTION TO LIGHTING FIXTURE POLE BASE.
- INTERCEPT EXISTING CONDUIT AT THIS POINT AND EXTEND CONDUIT AND CONDUCTOR USING 2#8+#8G IN 1"CONDUIT. TO EXISTING LIGHT POLE AS SHOWN IN DETAIL 01 ON THIS DRAWING.

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Dewberry Engineers Inc. 8401 ARLINGTON BLVD. FAIRFAX, VA 22031 PHONE: 703.849.0100

 DAVID WERNLI
 ARLINGTON COUNTY, VIRGINIA

 DAVID WERNLI
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 DEVID WERNLI
 ELECTRICAL SITE PLAN

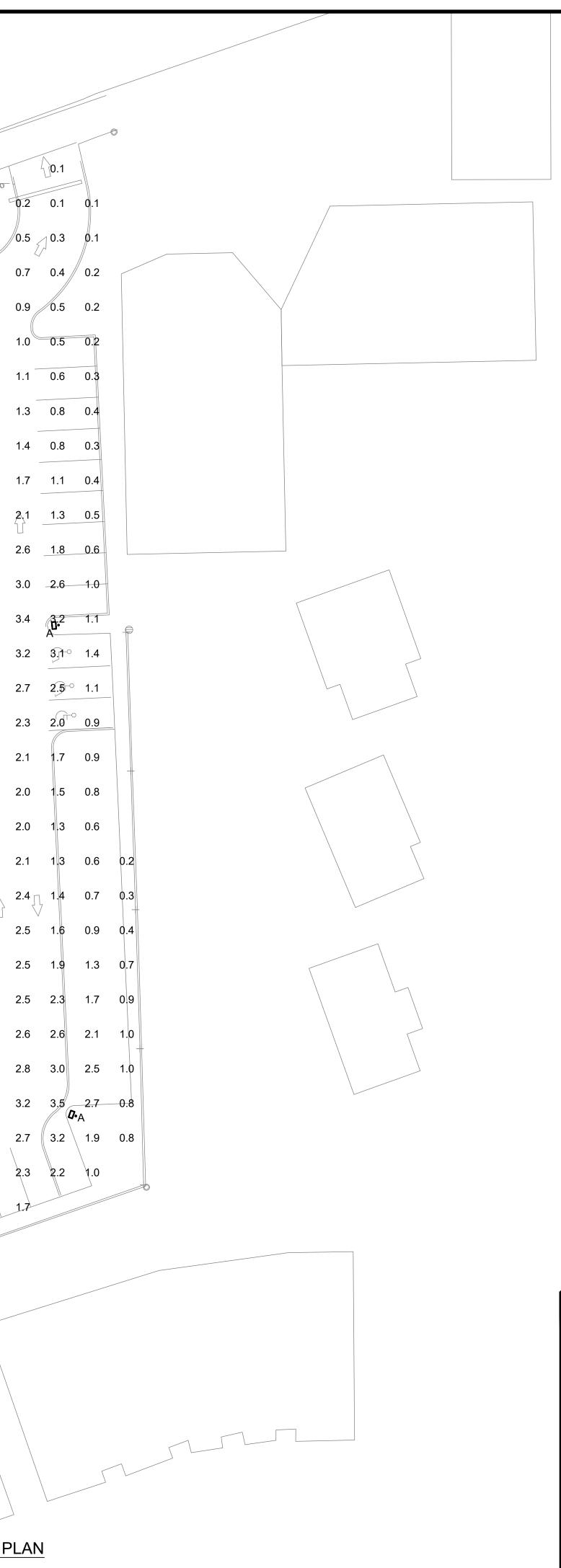
 11/02/2023
 3108 COLUMBIA PIKE DEMOLITION

 3108 COLUMBIA PIKE
 ARLINGTON COUNTY, VIRGINIA 22204

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WALL
01 - LIGHTING PHOTOMETRIC SITE PLAN



#### DRAWING GENERAL NOTES :

- 2. PHOTOMETRIC STATISTICS ARE BASED UPON A POLE HEIGHT OF 25'.

Schedule				
Symbol	Label	Quantity	Manufacturer	Catalog Number
-	А	4	Lithonia Lighting	RSX2 LED P1 40K R3S
	A2	2	Lithonia Lighting	RSX2 LED P1 40K R3S

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Parking Lot	1 +	1.7 fc	4.9 fc	0.1 fc	49.0:1	17.0:1

			ewberry®	Dewberry Engineers Inc. 8401 ARLINGTON BLVD. FAIRFAX, VA 22031 PHONE: 703.849.0100 FAX: 703.849.0518	
ISSUED FOR BID 11-10-2023	NUTH OF	ARLINGTON COUNTY, VIRGINIA			
	O DAVID WERNLI Lic. No. 57308	DEPARTMENT OF ENVIRONMENTAL SERVICES			
		LIGHTING PHOTOMETRIC SITE PLAN			
		3108 COLUMBIA PIKE DEMOLITION 3108 COLUMBIA PIKE			
		ARLINGTON COUNTY, VIRGINIA 22204			
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SUBMITTED DATE:DESIGNED:EHPROJECT/FILENO.8/3/2023CHECKED:DWLDAP23-00146					
SCALE IN FEET 1'' = 20' 1'' = 1 INCH VCS-83					

Description

RSX Area Luminaire Size 2 P1 Lumen Package 4000K CCT Type R3S Distribution

RSX Area Luminaire Size 2 P1 Lumen Package 4000K CCT Type R3S Distribution

Lamp

1. LIGHTING PHOTOMETRIC DATA IS BASED ON A GENERIC LED FIXTURE WITH TYPE 3 DISTRIBUTION AND APPROXIMATELY 11,285 TOTAL LUMEN OUTPUT. ALL LIGHTING ON SITE IS EXISTING FIXTURES TO REMAIN OR BE RELOCATED, AND EXACT MODEL DATA IS NOT KNOWN AT THIS TIME.

 Number Lamps
 Filename

 1
 RSX2 LED P1 40K R3S.ies

2 RSX2 LED P1 40K R3S.ies

Lumens Per Lamp 11285

11285

Light Loss Factor

0.8

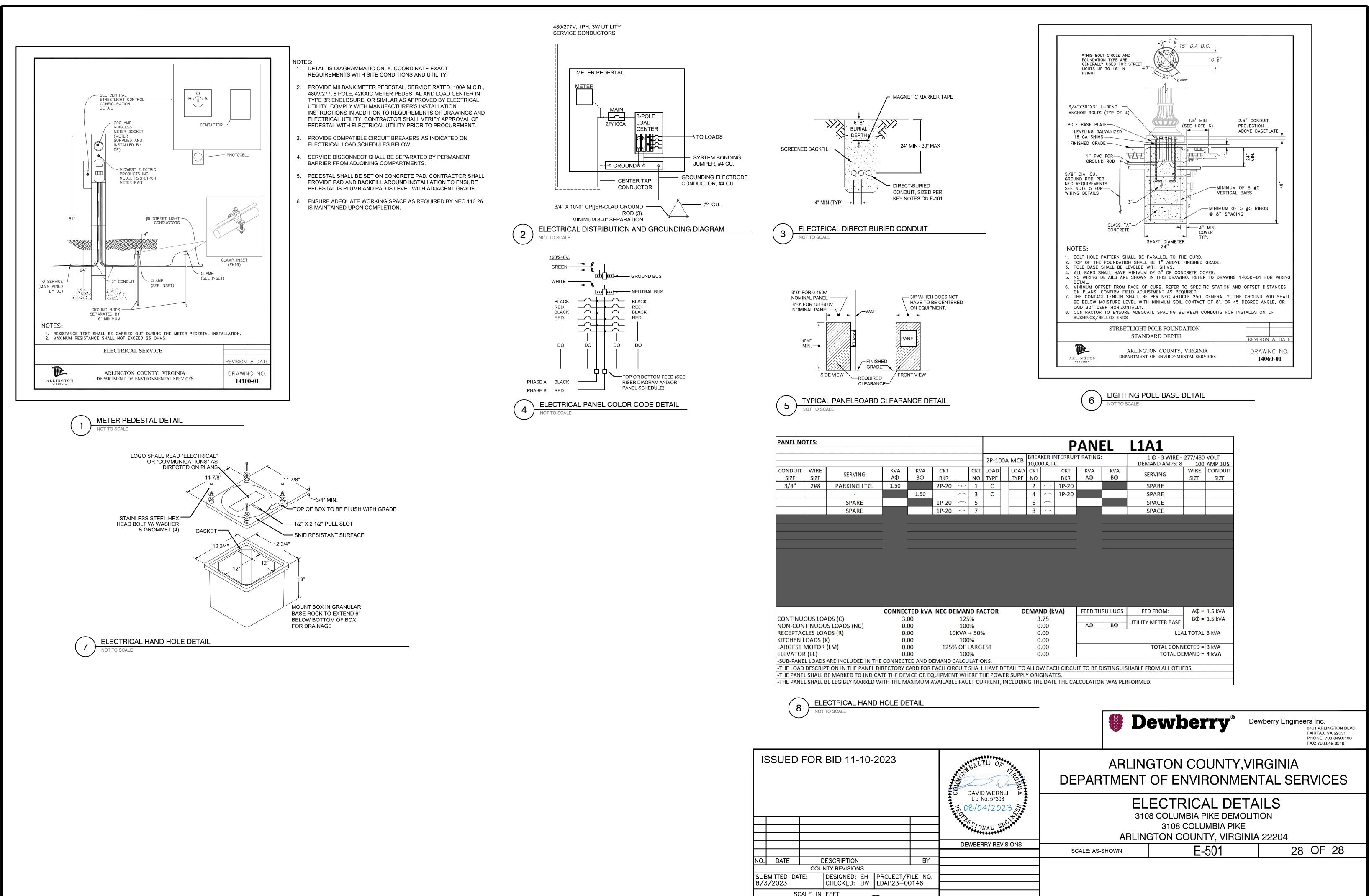
0.8

Wattage

72

144

3. CONTRIBUTIONS FROM EXISTING STREET LIGHTING AND LIGHTING FROM ADJACENT PROPERTIES ARE NOT INCLUDED IN THE PHOTOMETRIC ANALYSIS.



CONDUIT	WIRE	SERVING	KVA	KVA	CKT
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		SPARE			1P-2
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			-		
			-		
			CONNEC		NEC
CONTINU		DS (C)	CONNEC		<u>NEC</u>
			3.	00	<u>NEC</u>
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