

SHEET INDEX

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GENERAL NOTES:

1. THE SYSTEM OF COORDINATES USED IS BASED ON THE FOLLOWING DATUMS: 1.1. HORIZONTAL: MARYLAND STATE PLANE NAD OF 1983/2011

- 1.2. VERTICAL: NORTH AMERICAN VERTICAL DATUM (NAVD) 1988
- 2. TOPOGRAPHIC SURVEYS WERE PERFORMED BY MERCADO, INC. IN DECEMBER, 2018.
- 3. THE WETLAND DELINEATION FOR THIS SITE WAS PERFORMED BY STRAUGHAN ENVIRONMENTAL IN JANUARY 2019.
- 4. NO STOCKPILE OF ANY MATERIAL IS ALLOWED IN THE 100-YEAR FLOODPLAIN.

STATEMENT BY PROFESSIONAL ENGINEER REGISTERED IN THE DISTRICT OF COLUMBIA

THIS IS TO CERTIFY THAT THE ENGINEERING FEATURES OF ALL STORMWATER BEST MANAGEMENT PRACTICES (BMPS), STORMWATER INFRASTRUCTURE, AND LAND COVERS(COLLECTIVELY THE "FACILITY") HAVE BEEN DESIGNED/EXAMINED BY ME AND FOUND TO BE IN CONFORMITY WITH MODERN ENGINEERING PRINCIPLES APPLICABLE TO THE TREATMENT AND DISPOSAL OF STORMWATER POLLUTANTS. I FURTHER CERTIFY THAT THE FACILITY HAS BEEN DESIGNED IN ACCORDANCE WITH THE SPECIFICATION REQUIRED UNDER CHAPTER 5 OF TITLE 21 OF THE DISTRICT OF COLUMBIA MUNICIPAL REGULATIONS IT IS ALSO STATED THAT THE UNDERSIGNED HAS FURNISHED THE APPLICANT WITH A SET OF INSTRUCTIONS FOR THE MAINTENANCE AND OPERATION OF THE SITE'S FACILITY.

NAME AND TITLE	
	(FLEASE ITFE)

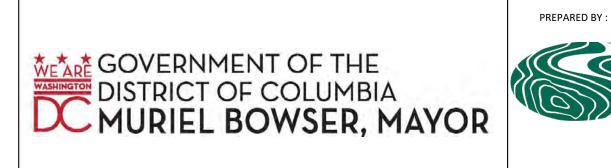
ADDRESS

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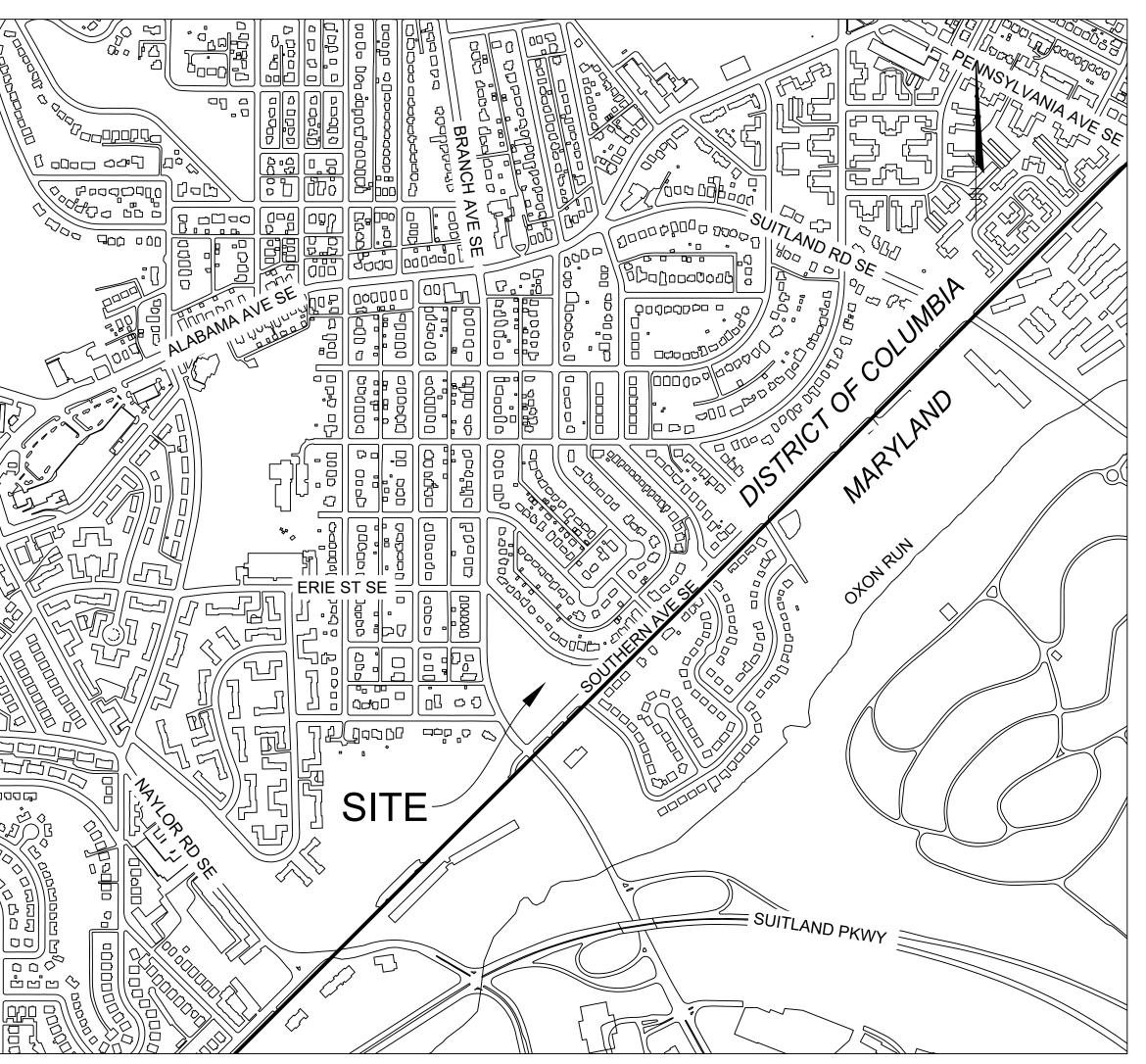


CW64924 BRANCH AVENUE PARK STREAM RESTORATION

DEPARTMENT OF ENERGY AND ENVIRONMENT, DISTRICT OF COLUMBIA GOVERNMENT,

WATERSHED PROTECTION DIVISION

WASHINGTON, D.C.



VICINITY MAP 1" = 500'

STANDARD SYMBOLS

Image: SS in the system of	IDRAIN AND MA GROUND WATE GROUND WATE ESTIGATION) GROUND ELEC GROUND FIBEF ESTIGATION) GROUND GAS I GROUND GAS I GROUND GAS I ESTIGATION) VALVE YDRANT IHOLE RIC POLE POLE	NHOLE ER LINE ER LINE TRIC LINE R OPTIC L	E		END OF INFORMATION EXISTING UTILITY POLE EXISTING LIGHT POLE SIGN POST EXISTING TRAVERSE POINT BENCHMARK PROPERTY BOUNDARY TREELINE TREE (DIAMETER AT BREAS TREE STUMP EXISTING WATERS OF THE NONTIDAL WETLAND EXISTING STRUCTURE EXISTING EDGE OF PAVEME	ST HEIC U.S.		SURVEYED 5 SURVEYED 1 LIMITS OF DIS PROPOSED N PROPOSED N PROPOSED 0 PROPOSED 0 PROPOSED 0 TREE REMOV
PARED BY : STRAUGHAN ENVIRONMENTAL	DES: JA/PC	BY N		RE	/ISIONS	DATE		AL DESIGN TITLE SH TI-01
	DATE: Aug-2019						NAD83/NAVD88	MAP NO. X

AS-BUILT CERTIFICATION BY PROFESSIONAL ENGINEE

WITHIN 21 DAYS AFTER COMPLETION OF CONSTRUCTION OF ALL STORMWATER BEST MANAGEMENT PRACTICES (BMPS), STORMWATER INFRASTRUCTURE, AND LAND COVERS (COLLECTIVELY THE "FACILITY"), PLEASE SEND THIS PAGE TO THE WATERSHED PROTECTION DIVISION OF THE DEPARTMENT OF ENERGY AND ENVIRONMENT

1. FACILITY INFORMATION:

SOURCE NAME:	
SOURCE LOCATION: STREET:	
CITY:	
DCRA PERMIT NO.:	
DATE ISSUED:	

1. AS BUILT CERTIFICATION

HEREBY CERTIFY THAT ALL STORMWATER BEST MANAGEMENT PRACTICES (INFRASTRUCTURE, AND LAND COVERS HAVE BEEN BUILT SUBSTANTIALLY IN ACCORDANCE ED PLANS AND SPECIFICATIONS AND THAT ANY DEVIATIONS NOTED BELOW FROM FUNCTIONING IN COMPLIANCE WITH THE REQUIREMENTS CHAP CT OF COLUMBIA MUNICIPAL REGULATIONS WHEN PROPERLY MAINTAINED RMINATIONS HAVE BEEN BASED UPON ON-SITE OBSERVATION OF CONSTRUCTION SCHEDULED AND CONDUCTED BY ME OR BY A PROJECT REPRESENTATIVE UNDER MY DIRECT SUPERVISION. I HAVE ENCLOSED ONE SET OF AS-BUILT ENGINEERING DRAWINGS

COMPANY NAME
COMPANY ADDRESS
DATE: PHONE NO.:
PLANS AND SPECIFICATIONS (ATTACH ADDITIONA
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5' MAJOR CONTOUR 1' MINOR CONTOUR DISTURBANCE MAJOR CONTOURS D MINOR CONTOURS RIFFLE WEIR

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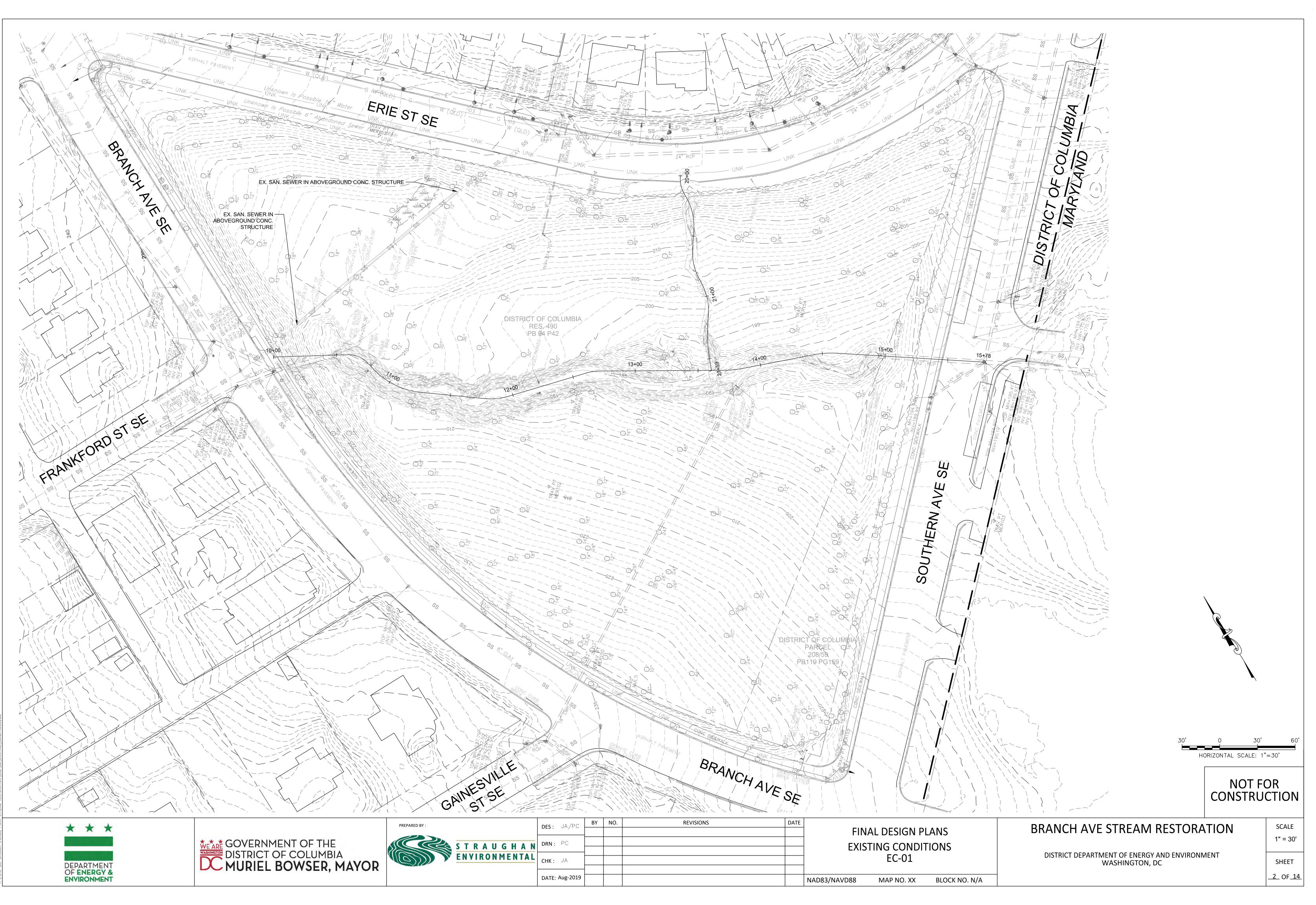
BRANCH AVE STREAM RESTORATION

DISTRICT DEPARTMENT OF ENERGY AND ENVIRONMENT WASHINGTON, DC

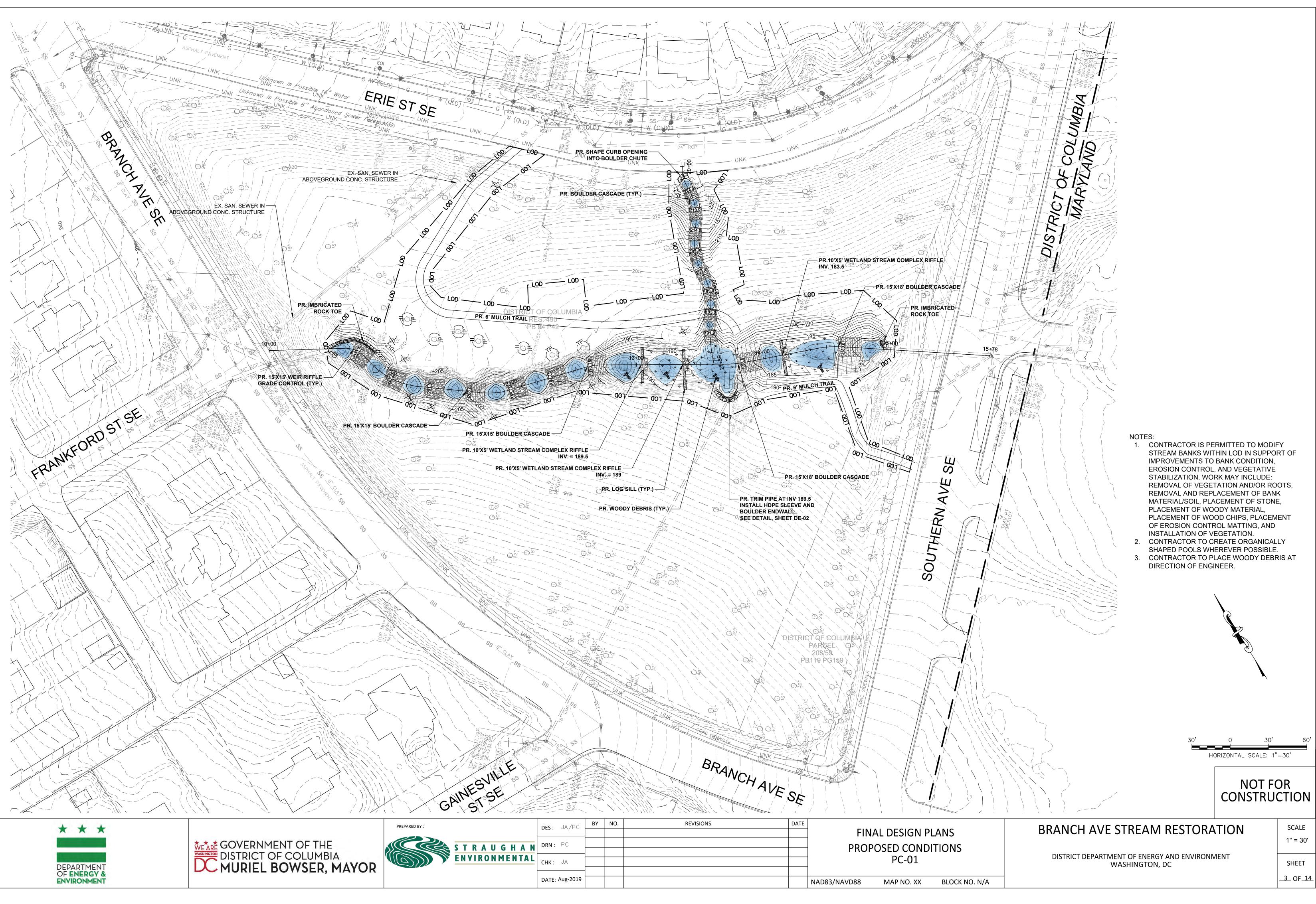
1" = 500'

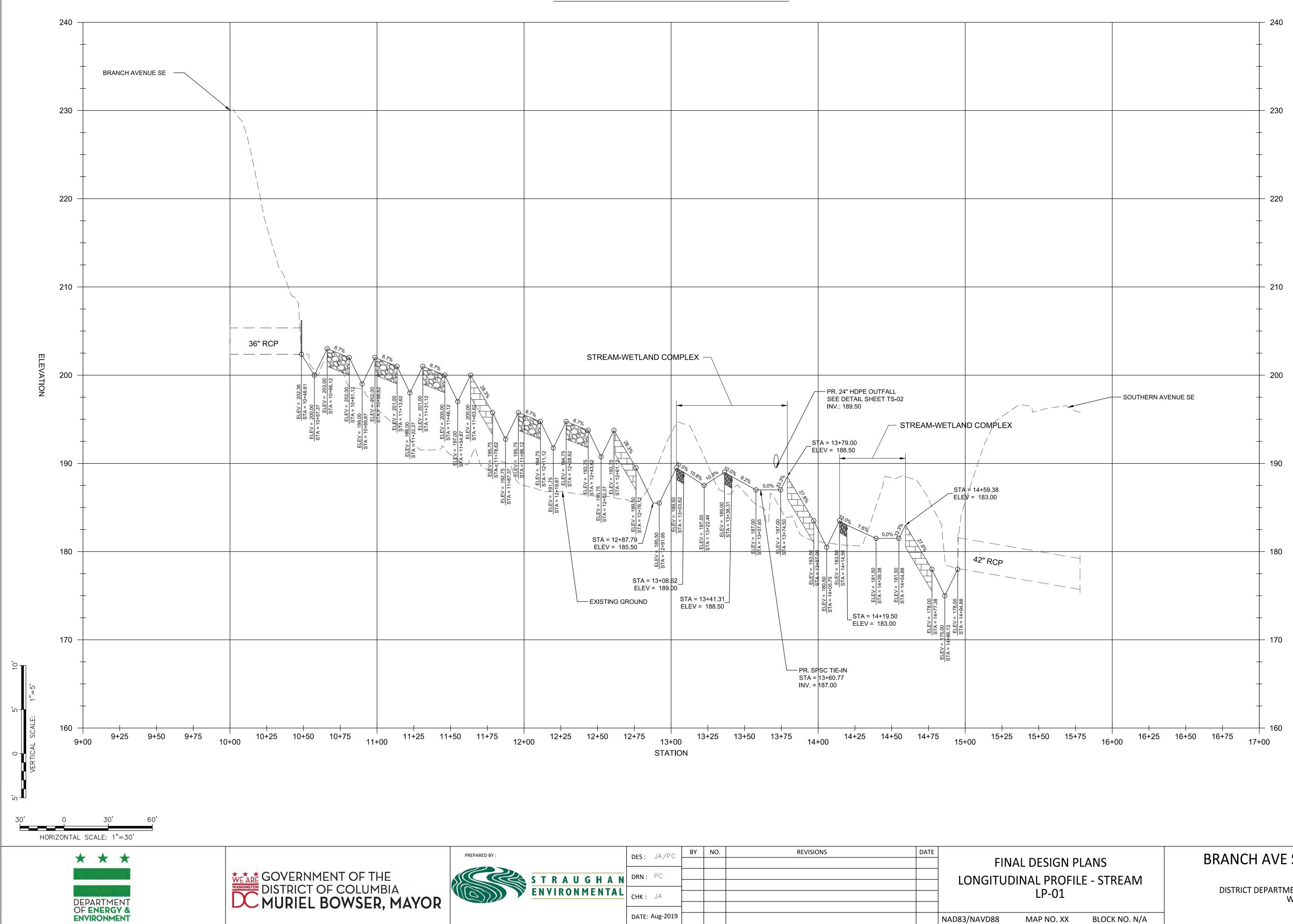
SCALE

SHEET <u>1</u> OF <u>14</u>



8/6/19 James Wade V. 7018-001 reanch avenuif bark stream restoration)/can)ng fyisting conni





STREAM - PROPOSED PROFILE

NOT FOR CONSTRUCTION

BRANCH AVE STREAM RESTORATION

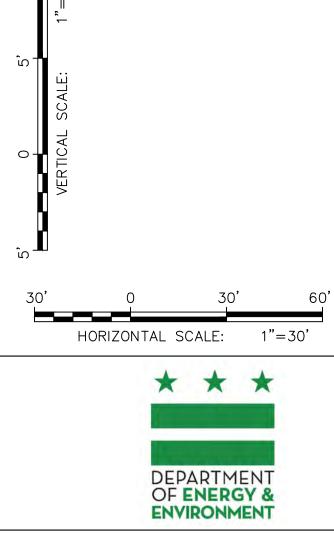
DISTRICT DEPARTMENT OF ENERGY AND ENVIRONMENT WASHINGTON, DC

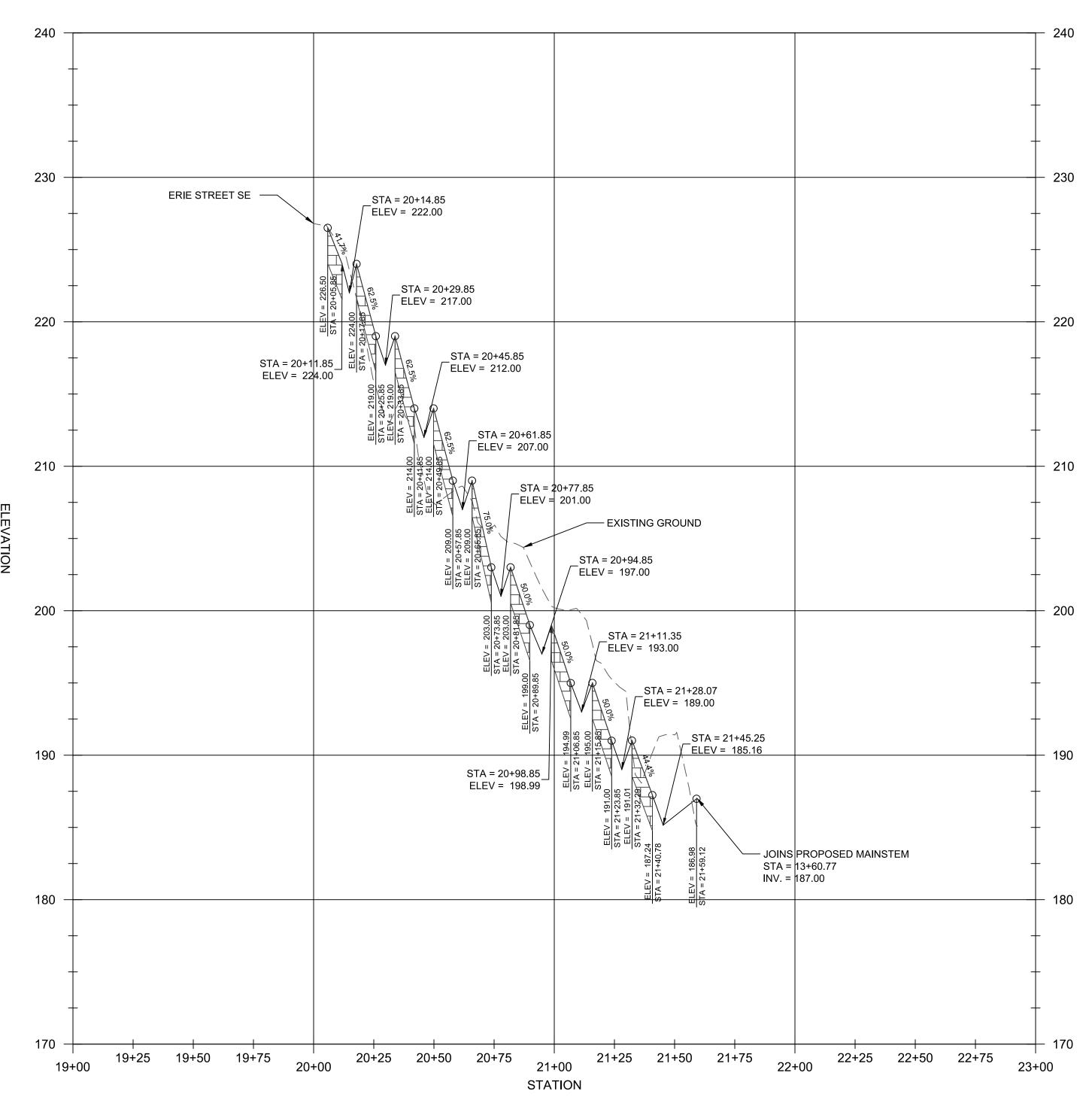
SCALE AS SHOWN

SHEET _4_OF_14_



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DATE: Aug-2019

SPSC - PROPOSED PROFILE

REVISIONS

DATE

FINAL DESIGN PLANS LONGITUDINAL PROFILE - SPSC LP-02

MAP NO. XX

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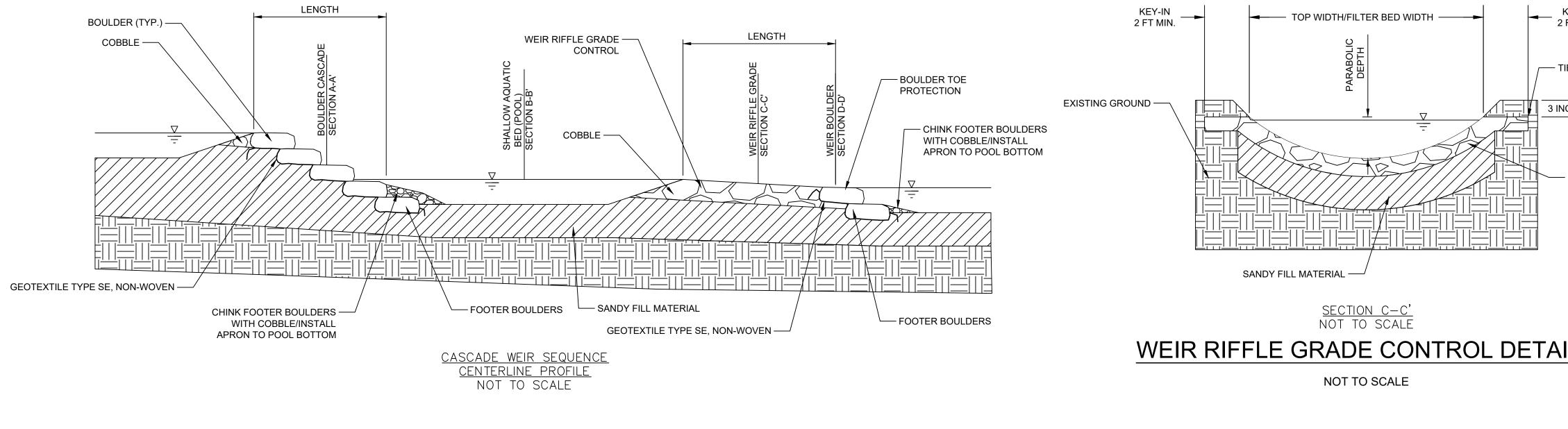
BRANCH AVE STREAM RESTORATION

SCALE AS SHOWN

DISTRICT DEPARTMENT OF ENERGY AND ENVIRONMENT WASHINGTON, DC

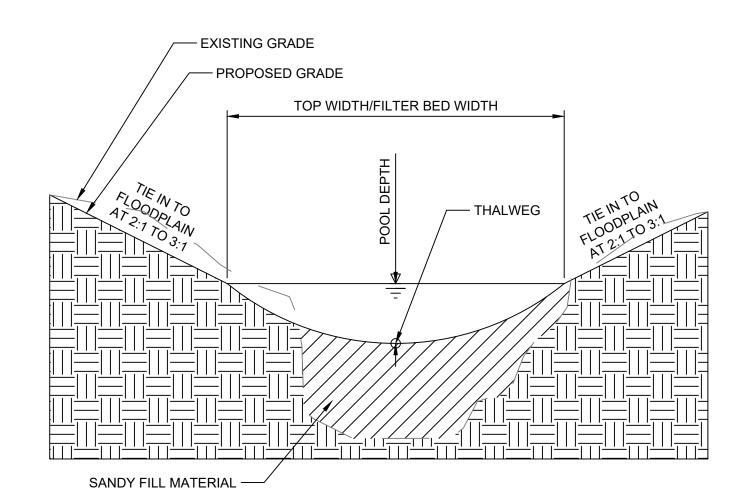
<u>5</u> OF <u>14</u>

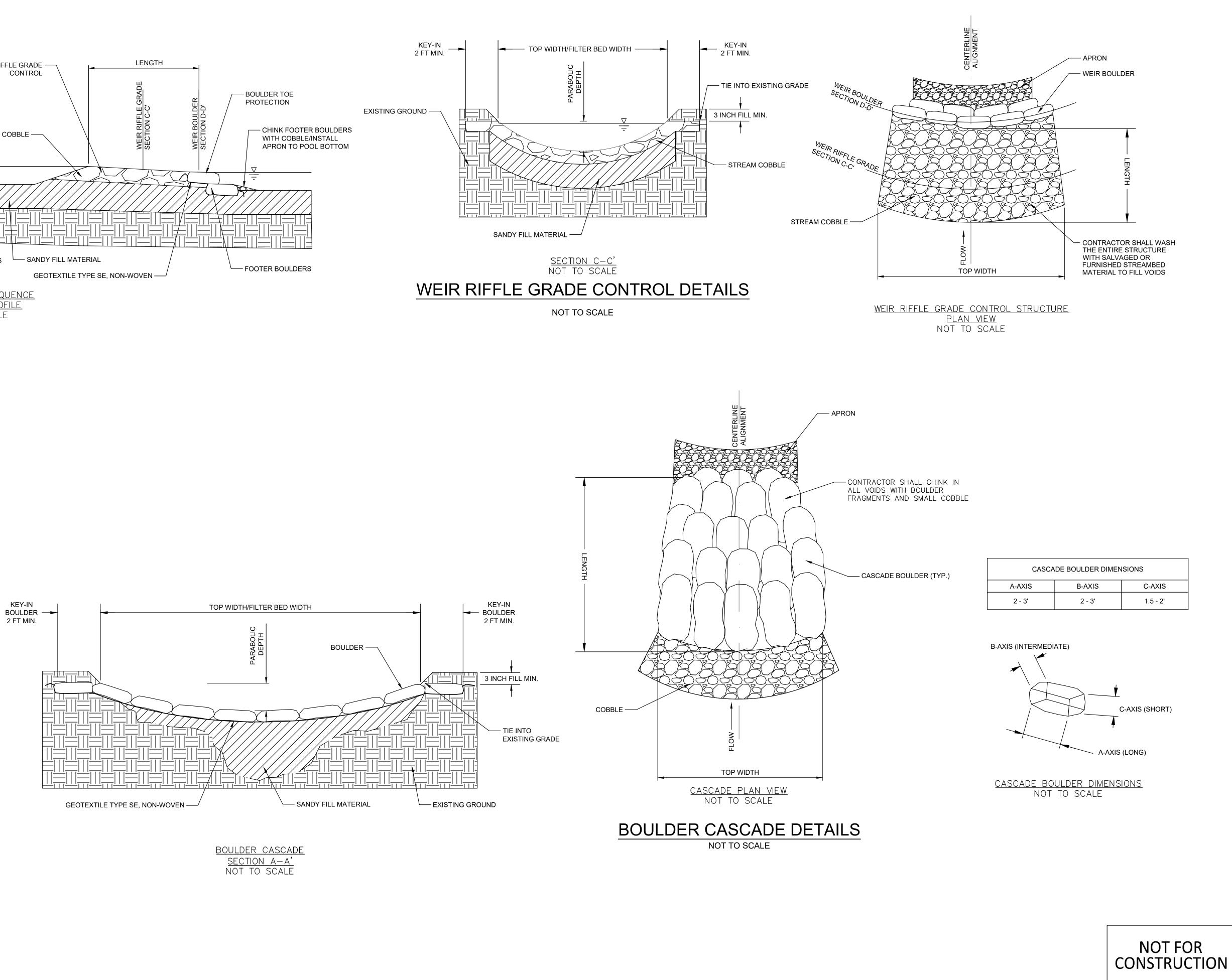
SHEET

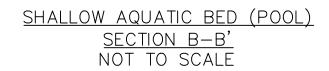


WEIR RIFFLE COBBLE GRADATION								
D50 MEDIAN STONE SIZE (INCHES)	% OF MATERIAL SMALLER THAN TYPICAL STONE	TYPICAL STONE EQUIVALENT DIAMETER (INCHES)	TYPICAL STONE WEIGHT (POUNDS)					
	70 - 100	21	440					
	50 - 70	18	275					
12	35 - 50	12	85					
	2 - 10	4	3					

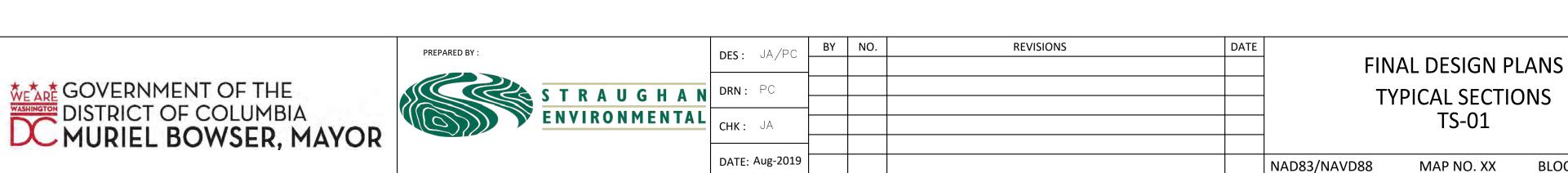
SOURCE: ANNE ARUNDEL COUNTY REGENERATIVE STEP POOL STORM CONVEYANCE DESIGN GUIDELINES







NOTE: CONTRACTOR TO CREATE ORGANICALLY SHAPED POOLS WHENEVER POSSIBLE.







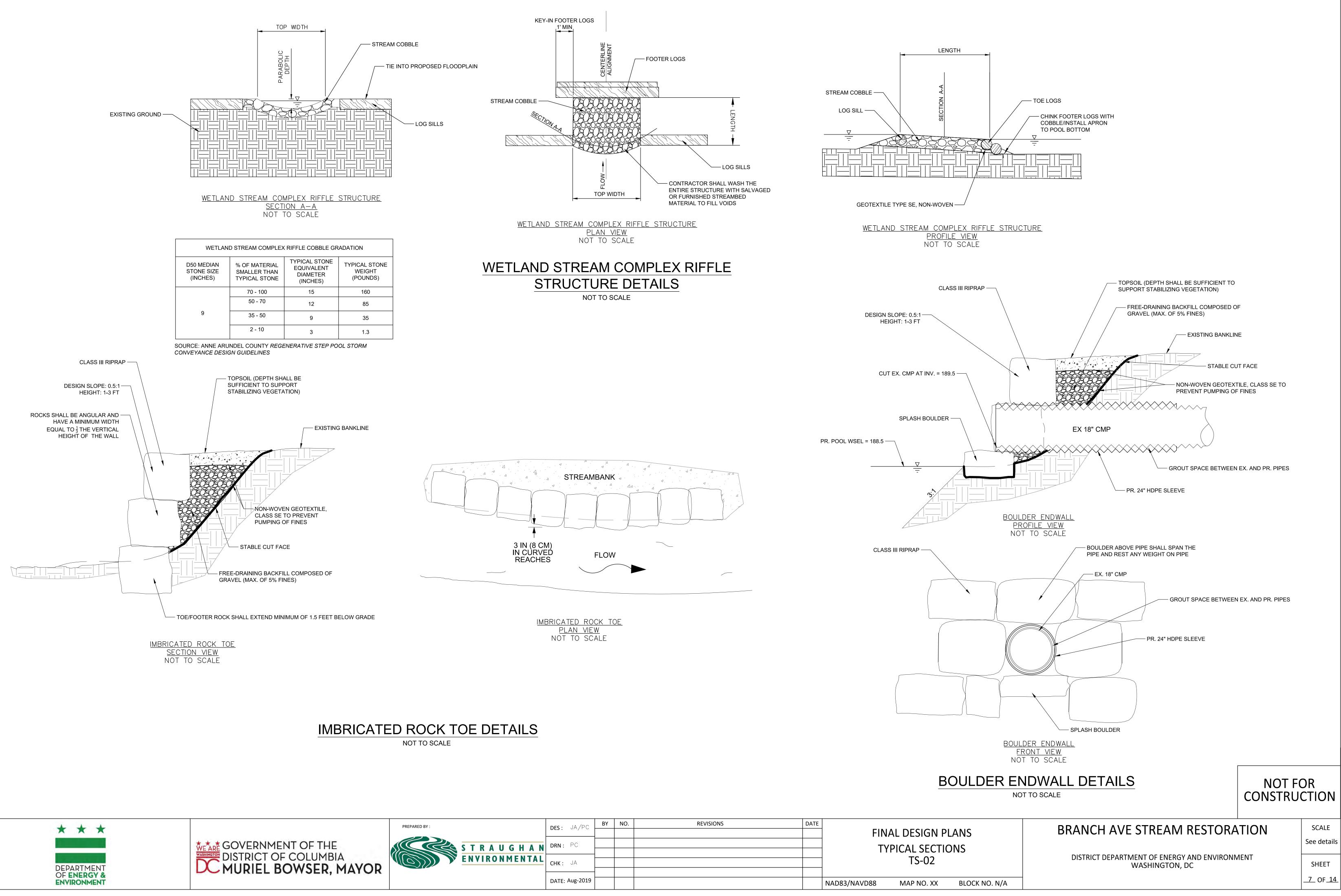
BRANCH AVE STREAM RESTORATION

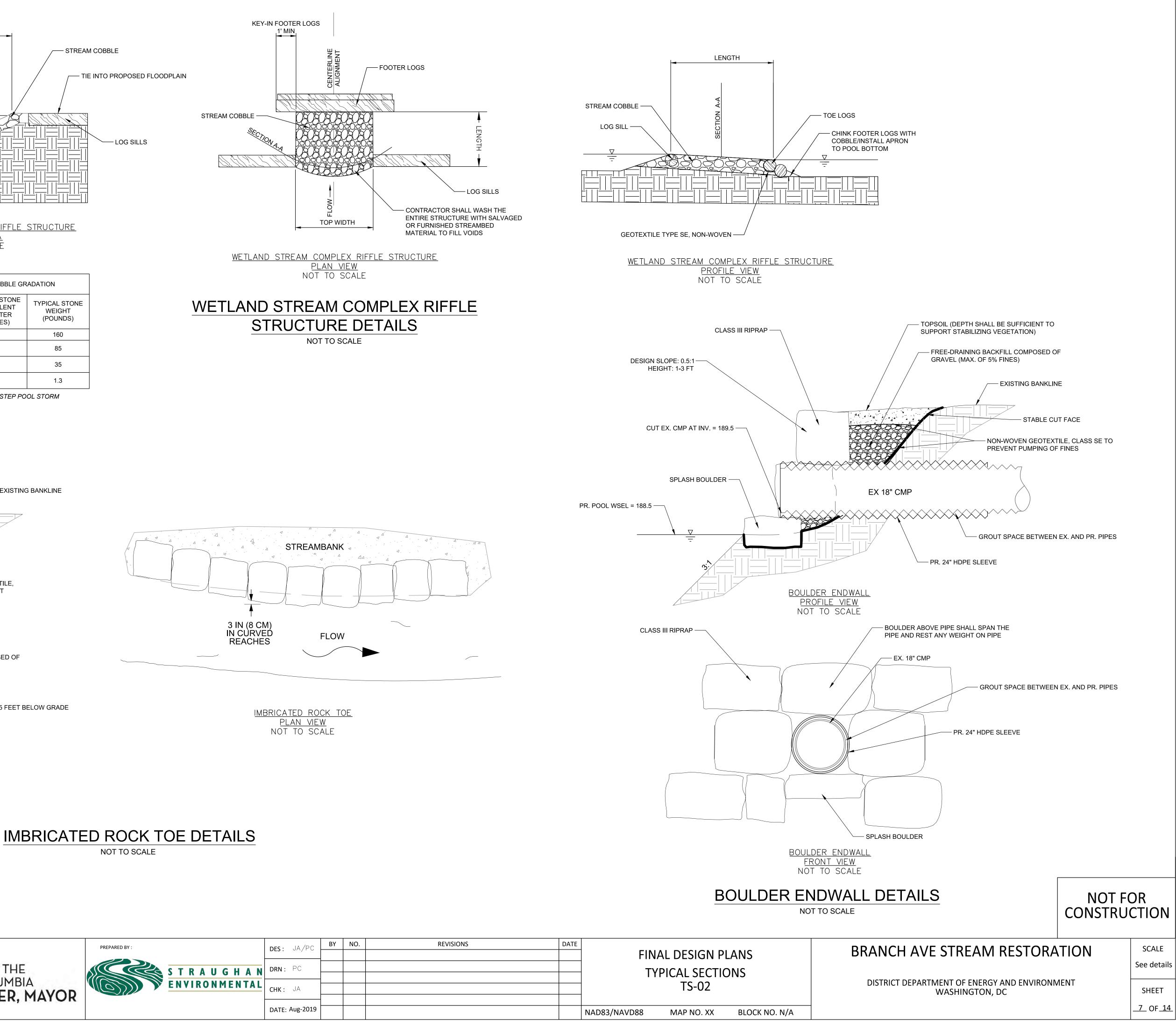
DISTRICT DEPARTMENT OF ENERGY AND ENVIRONMENT WASHINGTON, DC

SCALE See details

SHEET <u>6</u> OF<u>14</u>

BLOCK NO. N/A



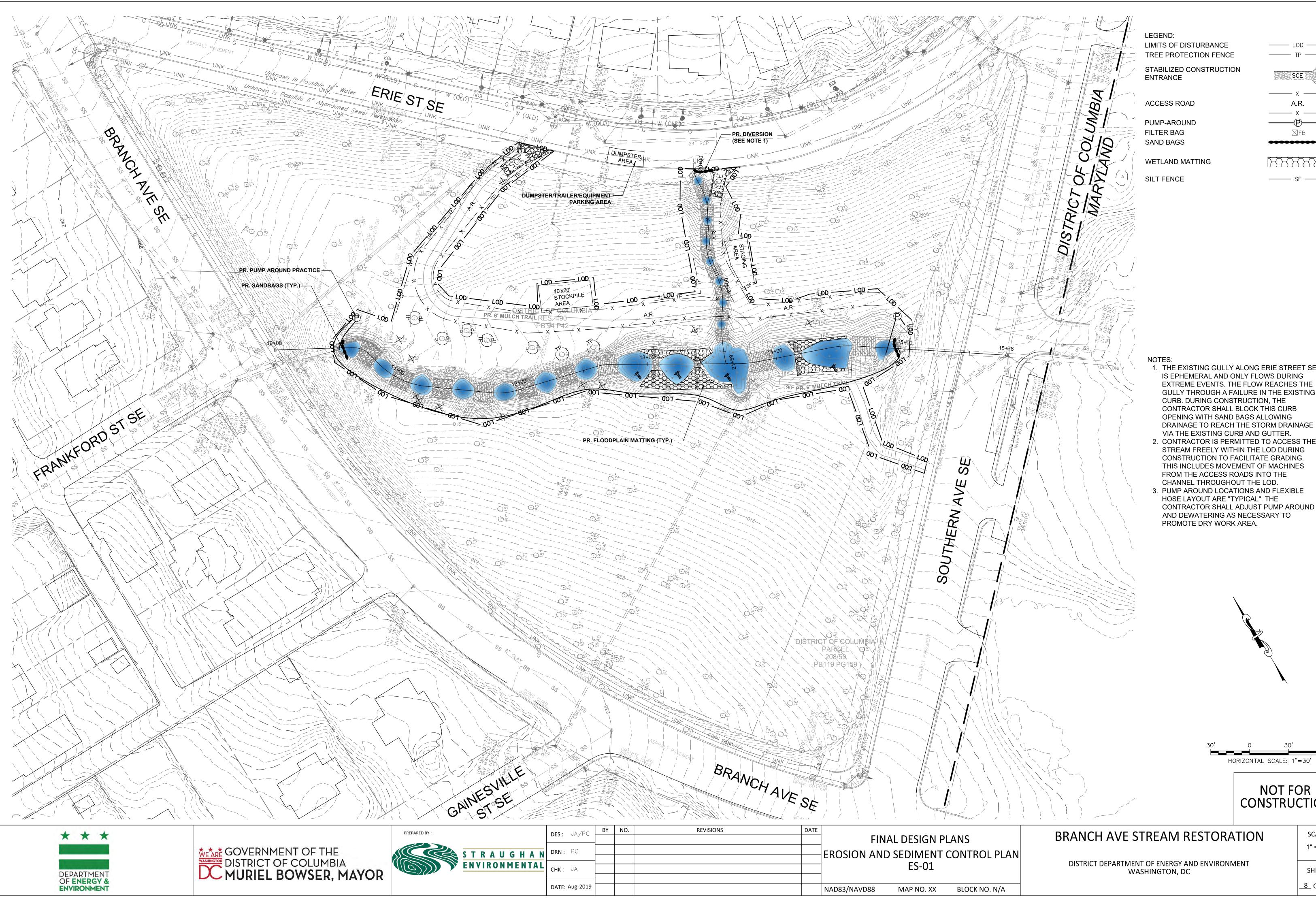








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	DATE:	Aug-2019					NAD83/NAVD88	MAP N



1" = 30' SHEET <u>8</u> OF <u>14</u>

SCALE

30'

NOT FOR CONSTRUCTION

HORIZONTAL SCALE: 1"=30'

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PROJECT NARRATIVE

THE BRANCH AVENUE STREAM **RESTORATION PROJECT WILL RESTORE AN** ENTRENCHED UNNAMED TRIBUTARY TO OXON RUN IN SOUTHEAST DC. THE TRIBUTARY HAS A DRAINAGE AREA OF 46 ACRES OF SINGLE FAMILY HOMES. THE EXISTING TRIBUTARY IS APPROXIMATELY HAS 16-FOOT, NEARLY VERTICAL BANKS THAT ARE ACTIVELY ERODING. ADDITIONALLY, A 200 FOOT LONG GULLY IS ACTIVELY FORMING FROM ERIE ST SE TO THE UNNAMED TRIBUTARY.

THE PROJECT'S GOALS ARE TO REDUCE BANK EROSION AND INCREASE HABITAT IN THE TRIBUTARY. THE PROJECT WILL LIFT THE HYDROLOGIC, HYDRAULIC, GEOMORPHIC, AND PHYSICOCHEMICAL PROCESSES OF THE STREAM. ADDITIONALLY, THE PROJECT WILL PROVIDE A SAFE WALKING PATH TO ALLOW THE COMMUNITY TO ACCESS THE STREAM

THE EROSION AND SEDIMENT CONTROL PLANS PROVIDE EROSION AND SEDIMENT CONTROL PRACTICES FOR CLEARING AND **GRUBBING AND CONSTRUCTING THE** STREAM RESTORATION ALONG THE UNNAMED TRIBUTARY.

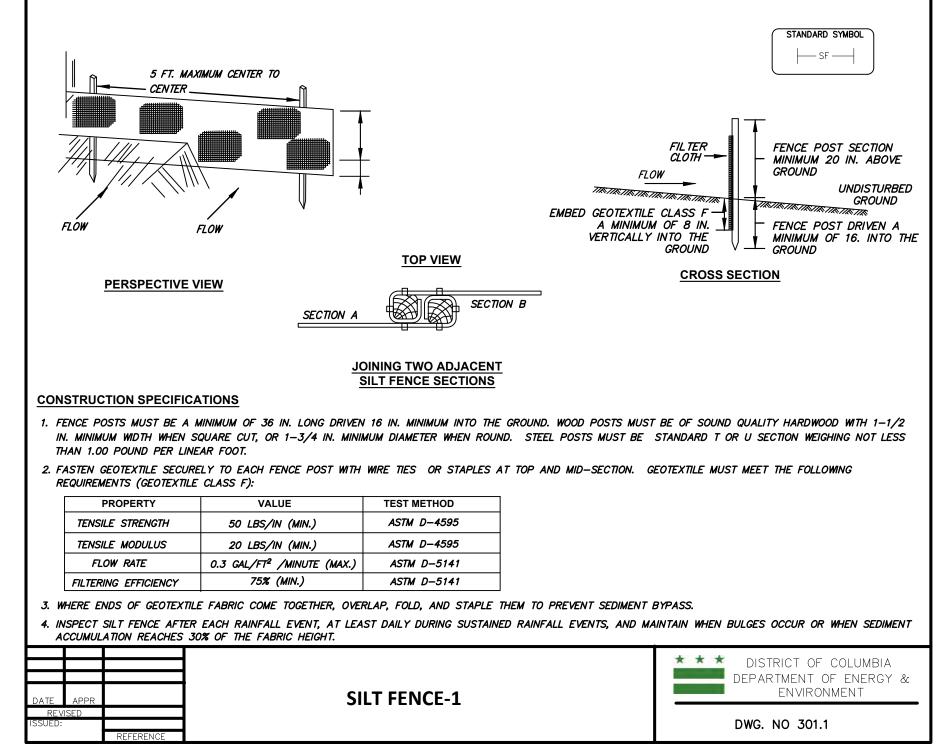
PROJECT LOCATION

PARCEL 206 LOT 67 & LOT 59 ERIE STREET SE WASHINGTON, D.C. 20020



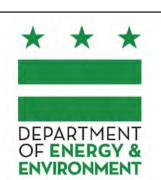
FOLLOWING INITIAL LAND DISTURBANCE OR RE-DISTURBANCE.PERMANENT OR INTERIM STABILIZATION MUST BE COMPLETED WITHIN SEVEN (7) CALENDAR DAYS FOR THE SURFACES OF ALL PERIMETER CONTROLS, DIKES, SWALES, DITCHES, PERIMETER SLOPES, AND SLOPES GREATER THAN THREE (3) HORIZONTAL TO ONE (1) VERTICAL (3:1); AND FOURTEEN (14) DAYS FOR ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE. THESE REQUIREMENTS DO NOT APPLY TO AREAS SHOWN ON THE PLAN THAT ARE USED FOR MATERIAL STORAGE OTHER THAN STOCKPILING, OR FOR THOSE AREAS ON THE PLAN WHERE ACTUAL CONSTRUCTION ACTIVITIES ARE BEING PERFORMED. MAINTENANCE SHALL BE PERFORMED AS NECESSARY SO THAT STABILIZED AREAS CONTINUOUSLY MEET THE APPROPRIATE REQUIREMENTS OF THE DISTRICT OF COLUMBIA STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL(ESC).[21 DCMR § 542.9 (O)] ESC MEASURES SHALL BE IN PLACE BEFORE AND DURING LAND

- DISTURBANCE.[21 DCMR § 543.6]
- CONTACT DOEE INSPECTION (202) 535-2977 TO SCHEDULE A PRECONSTRUCTION MEETING AT LEAST THREE (3) BUSINESS DAYS BEFORE THE COMMENCEMENT OF A LAND-DISTURBING ACTIVITY.[21 DCMR § 503.7 (A)]
- A COPY OF THE APPROVED PLAN SET WILL BE MAINTAINED AT THE CONSTRUCTION SITE FROM THE DATE THAT CONSTRUCTION ACTIVITIES BEGIN TO THE DATE OF FINAL STABILIZATION AND WILL BE AVAILABLE FOR DOEE INSPECTORS.[21 DCMR § 542.15]
- ESC MEASURES SHALL BE IN PLACE TO STABILIZE AN EXPOSED AREA AS SOON AS PRACTICABLE AFTER CONSTRUCTION ACTIVITY HAS TEMPORARILY OR PERMANENTLY CEASED BUT NO LATER THAN FOURTEEN (14) DAYS FOLLOWING CESSATION, EXCEPT THAT TEMPORARY OR PERMANENT STABILIZATION SHALL BE IN PLACE AT THE END OF EACH DAY OF UNDERGROUND UTILITY WORK THAT IS NOT CONTAINED WITHIN A LARGER DEVELOPMENT SITE.[21 DCMR § 543.7]
- STOCKPILED MATERIAL BEING ACTIVELY USED DURING A PHASE OF CONSTRUCTION SHALL BE PROTECTED AGAINST EROSION BY ESTABLISHING AND MAINTAINING PERIMETER CONTROLS AROUND THE STOCKPILE.[21 DCMR § 543.16 (A)]
- STOCKPILED MATERIAL NOT BEING ACTIVELY USED OR ADDED TO SHALL BE STABILIZED WITH MULCH, TEMPORARY VEGETATION, HYDRO-SEED OR PLASTIC WITHIN FIFTEEN (15) CALENDAR DAYS AFTER ITS LAST USE OR ADDITION.[21 DCMR § 543.16 (B)]
- FILL MATERIAL MUST BE FREE OF CONTAMINATION LEVELS OF ANY POLLUTANT THAT IS, OR MAY BE CONSIDERED TO REPRESENT, A POSSIBLE HEALTH HAZARD TO THE PUBLIC OR MAY BE DETRIMENTAL TO SURFACE OR GROUND WATER QUALITY. OR WHICH MAY CAUSE DAMAGE TO PROPERTY OR THE DRAINAGE SYSTEM.ALL FILL MATERIAL MUST BE FREE OF HAZARDOUS MATERIALS AND COMPLY WITH ALL APPLICABLE DISTRICT AND FEDERAL **REGULATIONS.**
- PROTECT BEST MANAGEMENT PRACTICES FROM SEDIMENTATION AND OTHER DAMAGE DURING CONSTRUCTION FOR PROPER POST CONSTRUCTION



OPERATION. [21 DCMR § 543.5]

- 10. REQUEST A DOEE INSPECTOR'S APPROVAL AFTER THE INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING. [21 DCMR §542.12 (A)] REQUEST A DOEE INSPECTOR'S APPROVAL AFTER FINAL STABILIZATION OF
- THE SITE AND BEFORE THE REMOVAL OF EROSION AND SEDIMENT CONTROLS.[21 DCMR § 542.12 (B)]
- 12. FINAL STABILIZATION MEANS THAT ALL LAND-DISTURBING ACTIVITIES AT THE SITE HAVE BEEN COMPLETED AND EITHER OF THE FOLLOWING TWO CRITERIA HAVE BEEN MET:(1) A UNIFORM (FOR EXAMPLE, EVENLY DISTRIBUTED, WITHOUT LARGE BARE AREAS) PERENNIAL VEGETATIVE COVER WITH DENSITY OF SEVENTY PERCENT (70%) OF THE NATIVE BACKGROUND VEGETATIVE COVER FOR THE AREA HAS BEEN ESTABLISHED ON ALL UNPAVED AREAS AND AREAS NOT COVERED BY PERMANENT STRUCTURES, OR (2) EQUIVALENT PERMANENT STABILIZATION MEASURES HAVE BEEN EMPLOYED (SUCH AS THE USE OF RIPRAP, GABIONS, OR GEOTEXTILES).[21 DCMR § 542.12 (B.1, B.2)]
- 13. FOLLOW THE REQUIREMENTS OF THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY APPROVED STORMWATER POLLUTION PREVENTION PLAN (SWPPP) AND MAINTAIN A LEGIBLE COPY OF THIS SWPPP ON SITE.[21 DCMR § 543.10 (B)]
- 14. POST A SIGN THAT NOTIFIES THE PUBLIC TO CONTACT DOEE IN THE EVENT OF EROSION OR OTHER POLLUTION. THE SIGN WILL BE PLACED AT EACH ENTRANCE TO THE SITE OR AS DIRECTED BY THE DOEE INSPECTOR. EACH SIGN WILL BE NO LESS THAN 18X 24 INCHES IN SIZE AND MADE OF MATERIALS THAT WILL WITHSTAND WEATHER FOR THE DURATION OF THE PROJECT. LETTERING WILL BE AT LEAST 1 INCH IN HEIGHT AND EASILY READABLE BY THE PUBLIC FROM A DISTANCE OF TWELVE FEET (12 FT). THE SIGN MUST DIRECT THE PUBLIC. IN SUBSTANTIALLY THE FOLLOWING FORM: "TO REPORT EROSION, RUNOFF, OR STORMWATER POLLUTION" AND WILL PROVIDE THE CONSTRUCTION SITE ADDRESS, DOEE'S TELEPHONE NUMBER (202-535-2977), DOEE'S E-MAIL ADDRESS (IEB.SCHEDULING@DC.GOV), AND THE 311 MOBILE APP HEADING ("CONSTRUCTION-EROSION RUNOFF").[21 DCMR §543.22]
- 15. A RESPONSIBLE PERSON MUST BE PRESENT OR AVAILABLE WHILE THE SITE IS IN A LAND-DISTURBING PHASE. THE RESPONSIBLE PERSON IS CHARGED WITH BEING AVAILABLE TO (A) INSPECT THE SITE AND ITS ESC MEASURES AT LEAST ONCE BIWEEKLY AND AFTER A RAINFALL EVENT TO IDENTIFY AND REMEDY EACH POTENTIAL OR ACTUAL EROSION PROBLEM, (B) RESPOND TO EACH POTENTIAL OR ACTUAL EROSION PROBLEM IDENTIFIED BY CONSTRUCTION PERSONNEL, AND (C) SPEAK ON SITE WITH DOEE TO REMEDY EACH POTENTIAL OR ACTUAL EROSION PROBLEM. A RESPONSIBLE PER BE (A) LICENSED IN THE DISTRICT OF COLUMBIA AS A CIVIL OR GEOTECHNICAL ENGINEER, A LAND SURVEYOR, OR ARCHITECT CERTIFIED THROUGH A TRAINING PROGRAM THAT DOEE APPRO INCLUDING A COURSE ON EROSION CONTROL PROVIDED BY AND JURISDICTION OR PROFESSIONAL ASSOCIATION. DURING CONS THE RESPONSIBLE PERSON SHALL KEEP ON SITE PROOF OF PRO LICENSING OR OF SUCCESSFUL COMPLETION OF A DOEE-APPRO TRAINING PROGRAM.[21 DCMR § 547]

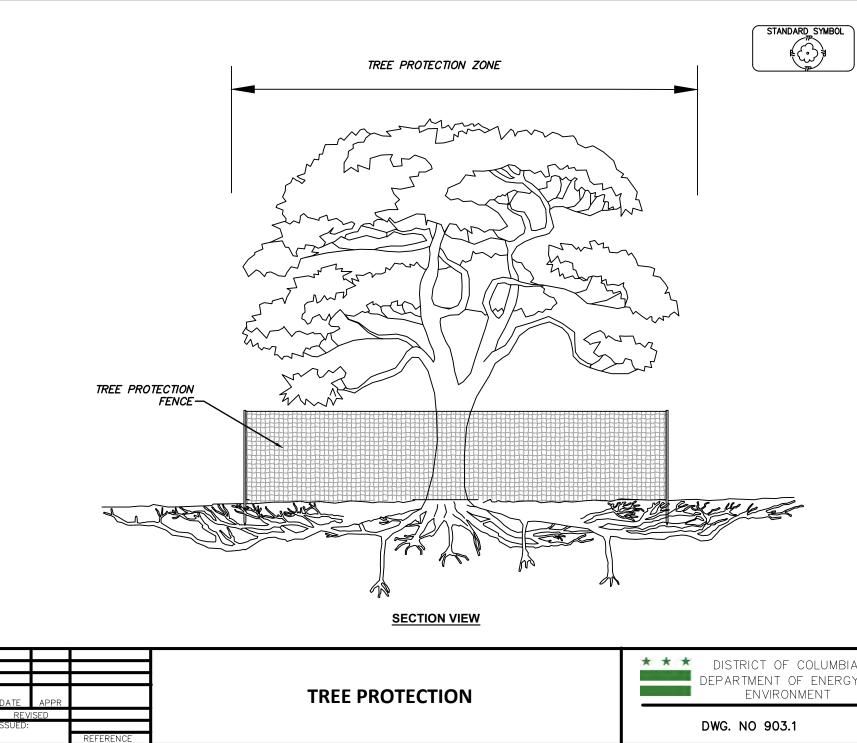


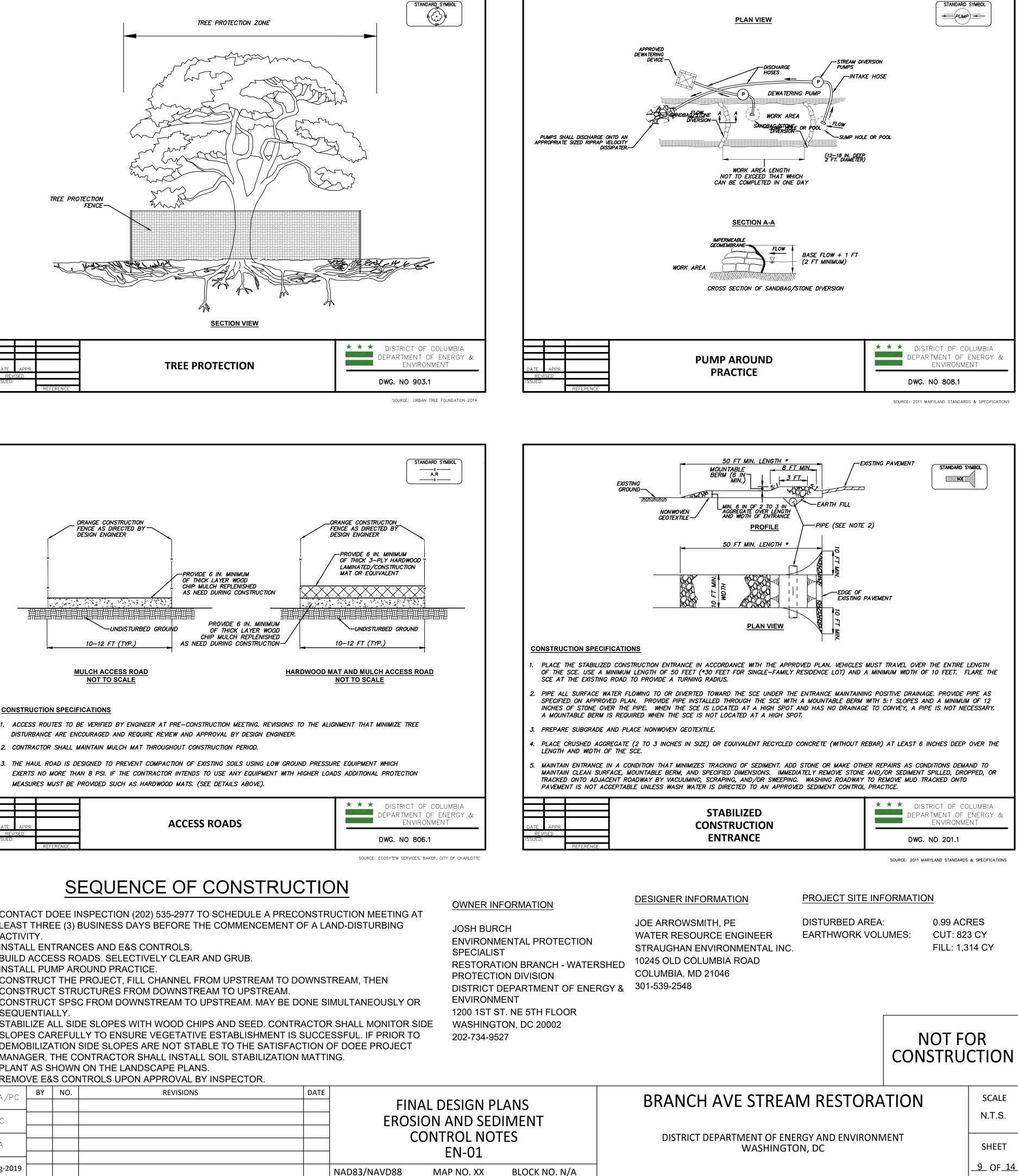
GOVERNMENT OF THE DISTRICT OF COLUMBIA MURIEL BOWSER, MAYOR	



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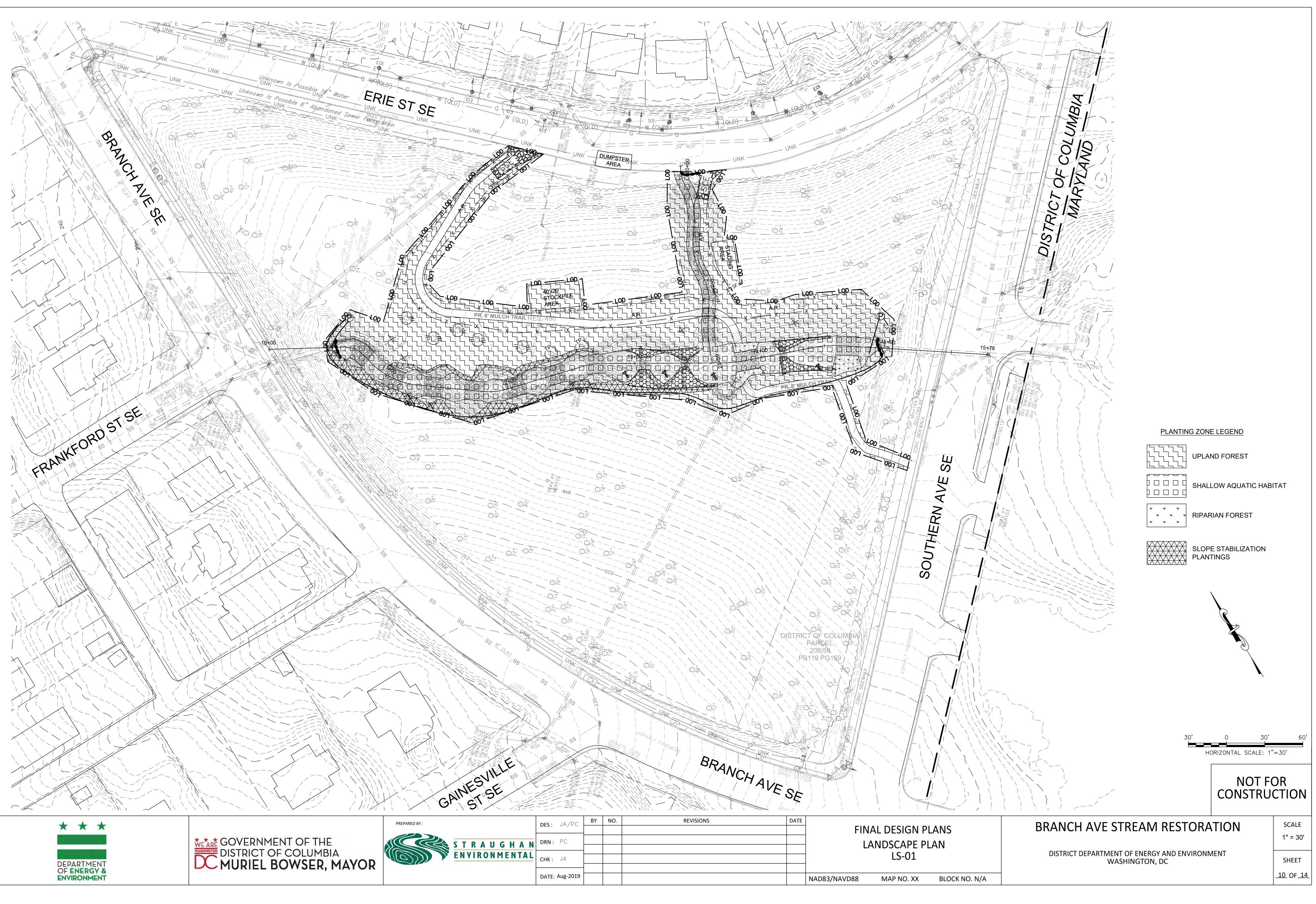
CONSTRUCTION SPECIFICATIONS

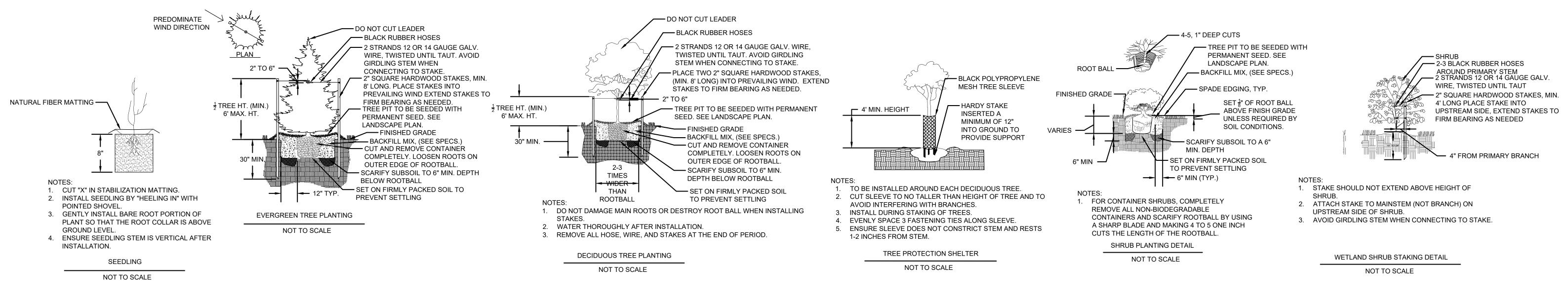
- 3. THE HAUL ROAD IS DESIGNED TO PREVENT COMPACTION OF EXISTING SOILS USING LOW GROUND PRESSURE EQUIPMENT WHICH

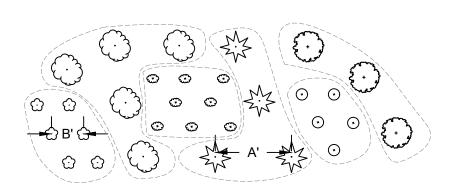
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OTHER	3.				DADS. SELECTIVELY		RUB			S
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	DATE: /	Aug-2019							NAD83/NAVD88	MAP

SOURCE: 2011 MARYLAND STANDARDS & SPECIFICATIONS







→ CANOPY/UNDERSTORY SPECIES 💿 💮 💮 - SHRUB SPECIES A' - TREE SPACING PER PLANT SCHEDULE B' - SHRUB SPACING PER PLANT SCHEDULE

NOTES:

- 1. THIS PLANTING IS TO MIMIC NATURAL SEED DISPERSAL
- 2. EACH SPECIES IS TO BE PLANTED IN A GROUP OF COMMON VEGETATION SPECIES.
- 3. THE MINIMUM CLUSTER IS A GROUP OF 3 TREES/SHRUBS OF THE SAME
- SPECIES. 4. THE MAXIMUM CLUSTER IS A GROUP OF 15 TREES/SHRUBS OF THE SAME
- SPECIES. 5. SHRUB CLUSTERS ARE TO ENCLOSED IN TEMPORARY WILDLIFE EXCLUSION FENCING, PER DETAIL THIS PAGE.

CLUSTER PLANTING DETAIL NOT TO SCALE

PLANTING SCHEDULE							
ZONE	AREA (SF)	DESCRIPTION					
UPLAND FOREST	27,166	NATIVE TREES, SHRUBS AND HERBACEOUS PLANTS SUITABLE FOR UPLAND HABITAT					
RIPARIAN FOREST	1,401	NATIVE TREES, SHRUBS, AND HERBACEOUS PLANTS SUITABLE FOR FREQUENTLY WET SOILS					
SHALLOW AQUATIC HABITAT	9,518	NATIVE SHRUBS, HERBACEOUS, AND AQUATIC PLANTS SUITABLE FOR SHALLOW WETLAND HABITAT					
SLOPE STABILIZATION	2,568	NATIVE HERBACEOUS/GROUNDCOVER PLANTS SUITABLE FOR PLANTING ON STEEP SLOPES					





GOVERNMENT OF THE DISTRICT OF COLUMBIA MURIEL BOWSER, MAYOR



PREPARED BY :

DATE:	Aug-2019

BY NO.

REVISIONS

DATE

PLANTING NOTES LN-01

MAP NO. XX

NOT FOR CONSTRUCTION

FINAL DESIGN PLANS

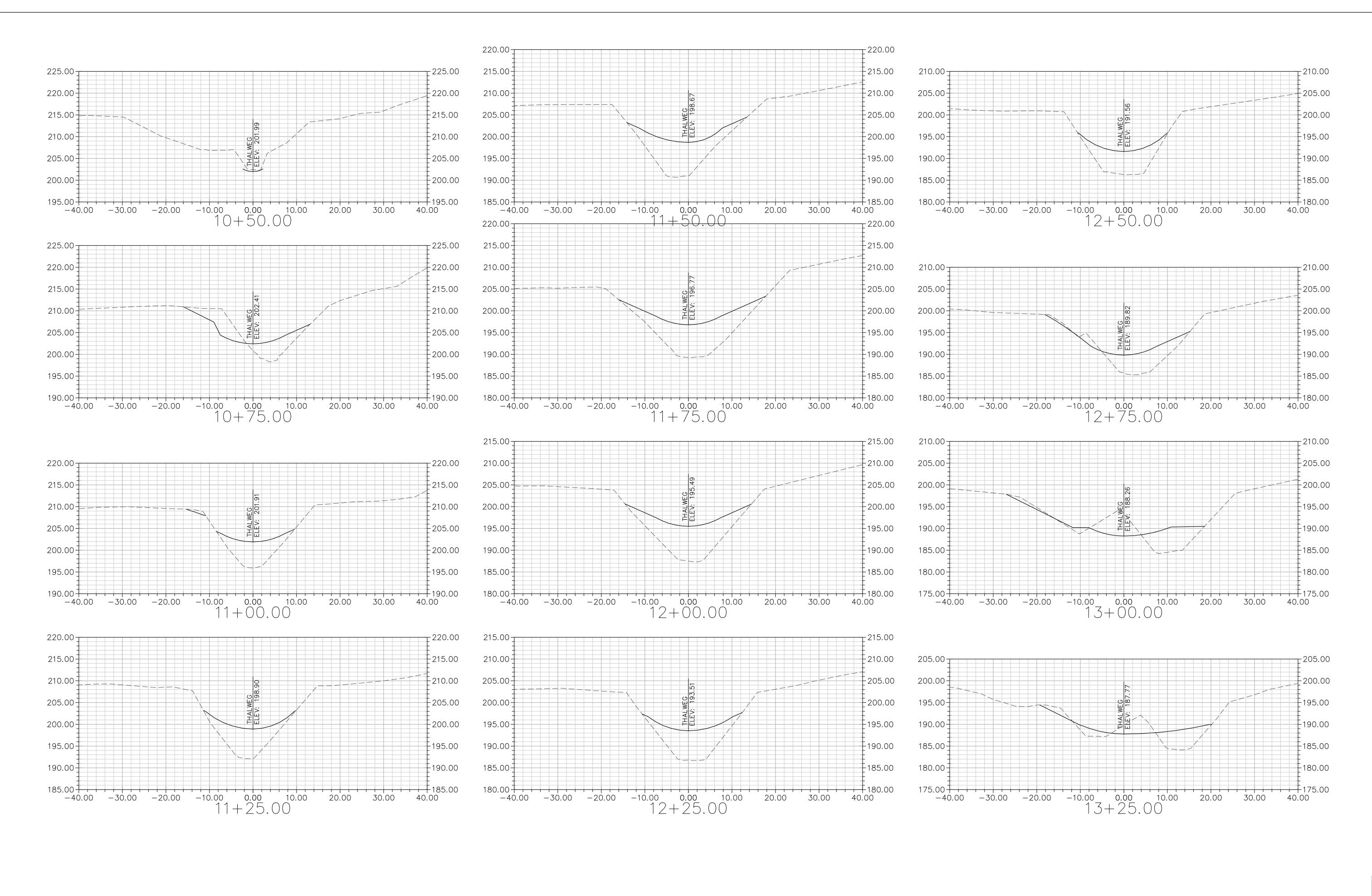
BRANCH AVE STREAM RESTORATION

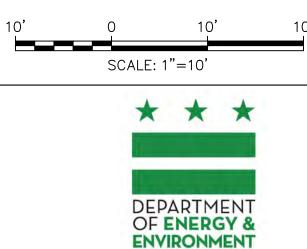
DISTRICT DEPARTMENT OF ENERGY AND ENVIRONMENT WASHINGTON, DC

N.T.S. SHEET

SCALE

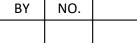
<u>11</u> OF <u>14</u>











REVISIONS

DATE

FINAL DESIGN PLANS **CROSS SECTIONS - STREAM** CS-01

MAP NO. XX

NOT FOR CONSTRUCTION

BLOCK NO. N/A

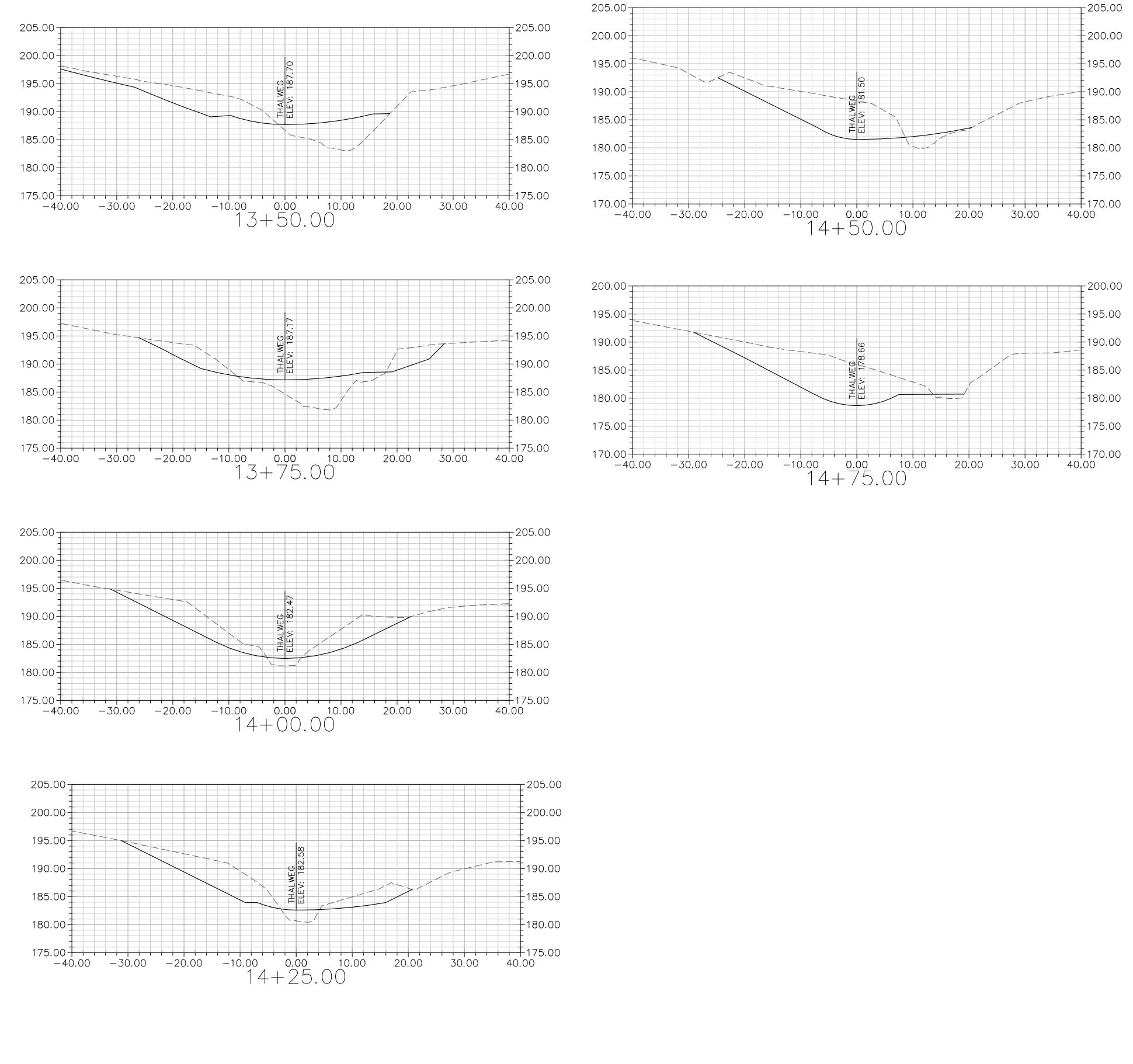
BRANCH AVE STREAM RESTORATION

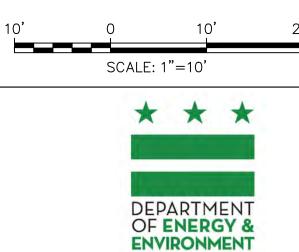
DISTRICT DEPARTMENT OF ENERGY AND ENVIRONMENT WASHINGTON, DC

SCALE 1" = 10'

<u>12</u> OF<u>14</u>

SHEET







es Wade 018-001 BRANCH AVENUE PARK STREAM RESTORATION/CAD/08_DESIGN CROSS SECTIO



BY NO.

REVISIONS

DATE

FINAL DESIGN PLANS CROSS SECTIONS - STREAM CS-02

MAP NO. XX

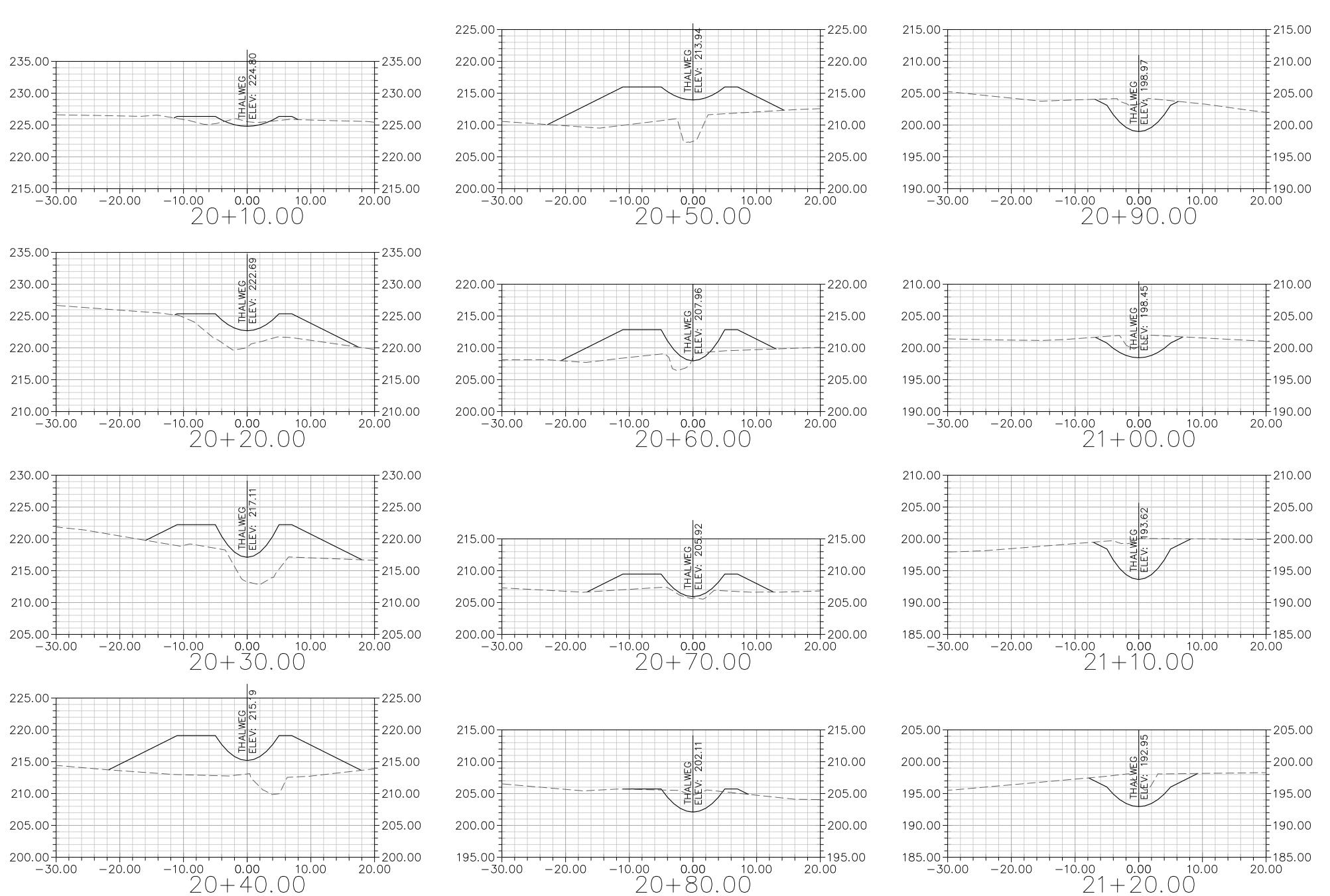
NOT FOR CONSTRUCTION

BRANCH AVE STREAM RESTORATION

DISTRICT DEPARTMENT OF ENERGY AND ENVIRONMENT WASHINGTON, DC SCALE 1" = 10'

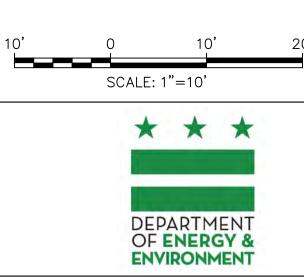
<u>13</u> OF <u>14</u>

SHEET





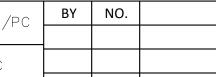






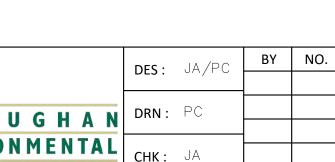
FINAL DESIGN PLANS **CROSS SECTIONS - SPSC** CS-03

MAP NO. XX



REVISIONS

DATE



DATE: Aug-2019

STRAUGHAN DRN: PC **ENVIRONMENTAL** CHK: JA



NOT FOR CONSTRUCTION

BLOCK NO. N/A

BRANCH AVE STREAM RESTORATION

DISTRICT DEPARTMENT OF ENERGY AND ENVIRONMENT WASHINGTON, DC

SCALE 1" = 10'

SHEET <u>14</u> OF <u>14</u>