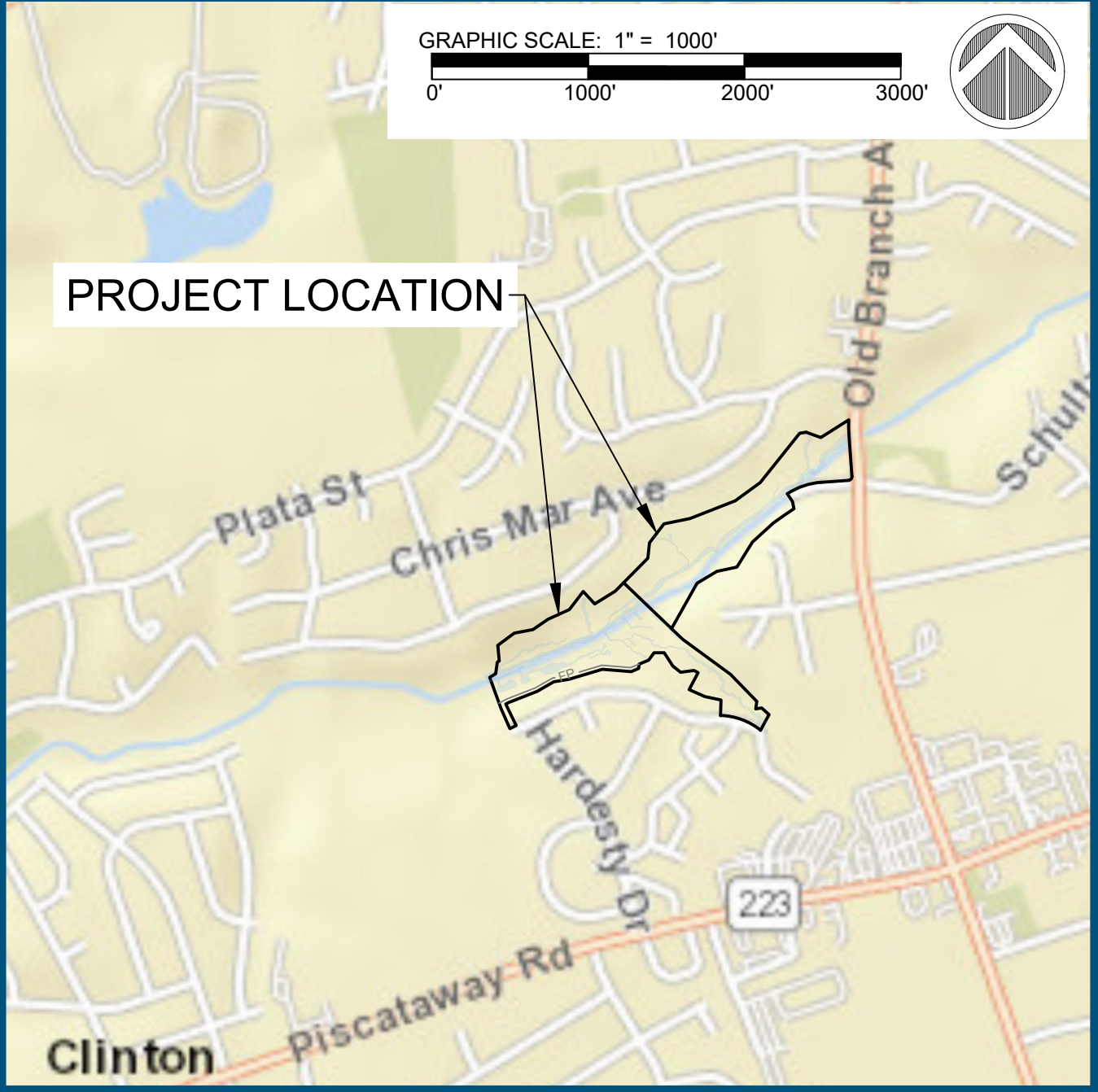


PEA HILL BRANCH STREAM RESTORATION
DOE CLEAN WATER PARTNERSHIP (DOE #46854-2022-0)
TYPE 2 TREE CONSERVATION PLANS
PRINCE GEORGE'S COUNTY, MD

VICINITY MAP



LOCATION MAP

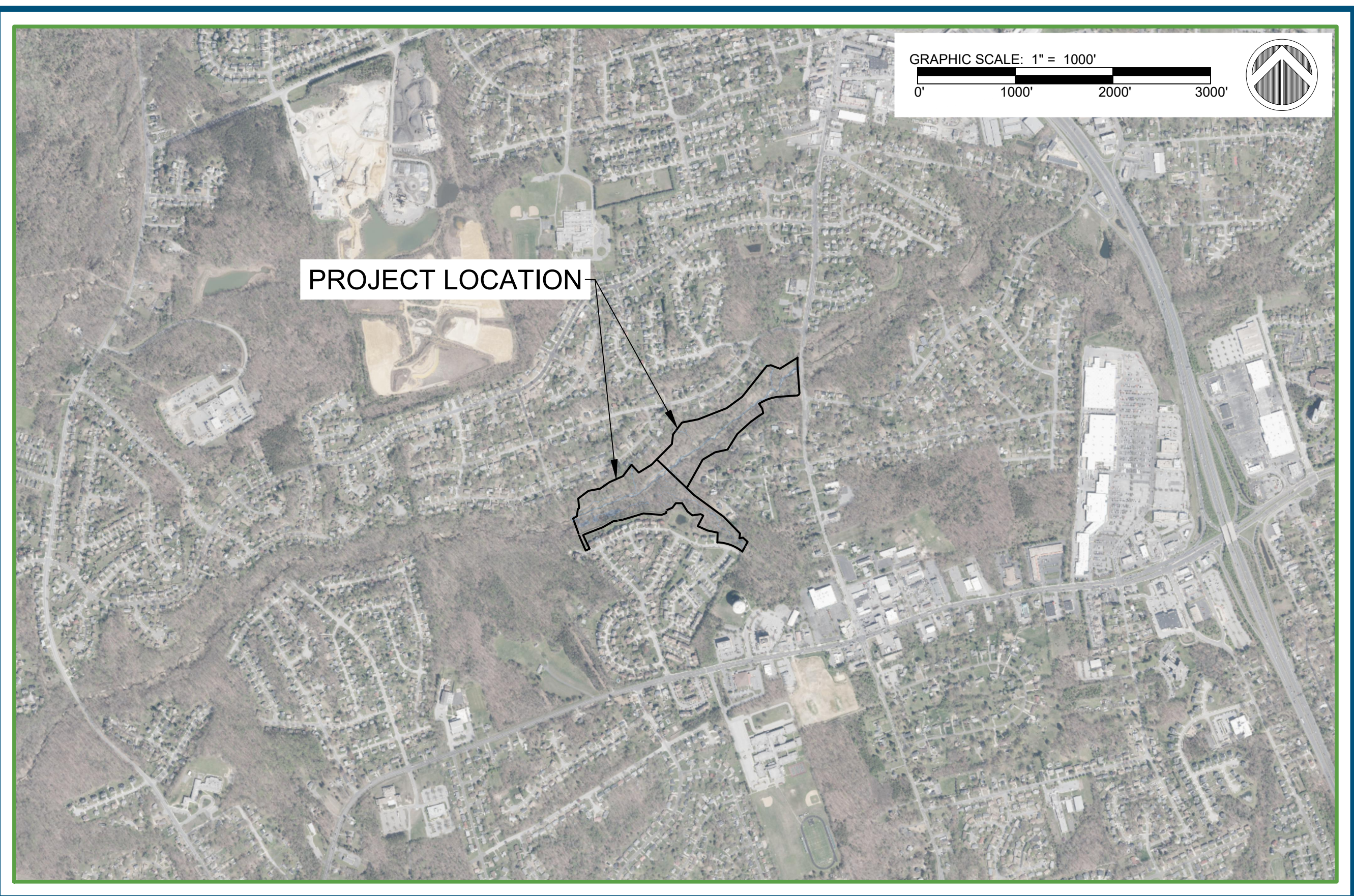


LATITUDE: N 38° 46' 13"
LONGITUDE: W 76° 54' 77"

TABLE 1. GENERAL INFORMATION TABLE		
LAYER CATEGORY	LAYER NAME	VALUE
ZONE	ZONING (ZONE)	RSF-95
ZONE	AVIATION POLICY AREA (APA)	N/A
ADMINISTRATIVE	TAX GRID (TMG)	116-B1, 116-B2, 116-C1, 116-C2
ADMINISTRATIVE	WSSC GRID	211SE05 and 211SE06
ADMINISTRATIVE	PLANNING AREA (PLAN AREA)	Clinton & Vicinity
ADMINISTRATIVE	ELECTION DISTRICT (ED)	9
ADMINISTRATIVE	CONCILIANTIC DISTRICT (CD)	9
ADMINISTRATIVE	GENERAL PLAN 2002 TIER (TIER)	DEVELOPING

TABLE 2. SITE STATISTICS	
GROSS TRACT AREA	26.91
EXISTING 100-YEAR FLOODPLAIN	18.53
NET TRACT AREA (LOD)	13.98
EXISTING WOODLAND IN THE FLOODPLAIN	10.25
EXISTING WOODLAND NET TRACT	7.71
EXISTING WOODLAND TOTAL	17.96
EXISTING PMA	24.73
REGULATED STREAMS (Linear Feet of Centerline)**	5386.00
RIPARIAN (WOODED) BUFFER UP TO 300 FT WIDE	7.26
**THIS PROJECT INCLUDES A PERMITTED STREAM-LENGTH-LOSS OF 247.	

AERIAL PHOTOGRAPH-PROJECT OVERVIEW



Woodland Conservation Worksheet for Governmental and Linear Projects in Prince George's County			
SECTION 1-Establishing Site Information			
Property Description or Name:	Pea Hill Branch		
Project Location:	Clinton, Maryland		
TCP2 Number:	TCP2-030-2023	Rev. No.:	00
NRI Number:	223-2022-01 & 089-2019-01	Rev. No.:	00
Zone:	RSF-95		
Gross Tract:	26.91 acres		
Project Area/Limits:	14.01 acres		
SECTION 2-Determining Requirements			
Existing Woodland in Project Limits = WCT	7.71	or	55.03%
Woodland Cleared in Project Limits	6.54		
Total area of woodland cleared (subject to 1:1 replacement)	6.54		
Off-Site Woodland Conservation Provided (afforestation)	0.00		
Off-Site Woodland Conservation Provided (preservation)	0.00		
Woodland Conservation Requirement:	6.54 acres		

SECTION 3- Meeting the Requirements			
Woodland Preserved	0.43	Bond amount:	\$ 128,589.12
Afforestation /Reforestation	9.84		
Natural Regeneration	0.00		
Landscape Credit	0.00		
Specimen/Historic Tree Credit (CRZ area *2.0)	0.00		
Forest Enhancement Credit (Area * 25)	0.00		
Street Tree Credit (Existing or 10-year canopy coverage)	0.00		
Prior Credit for Off-site Woodland Conservation	0.00		
Current Credit for Off-site Woodland Conservation	0.00		
Off-site Woodland Conservation provided (afforestation)	0.00		
Off-site Woodland Conservation provided (preservation)	0.00		
Area Approved for Fee-in-lieu/PFA	0.00	Fee amount:	\$0.00
Area Approved for Fee-in-lieu/non-PFA	0.00	Fee amount:	\$0.00
Woodland Conservation Provided	10.27 acres		

Prepared by: *Taura Calloway* 9/27/2023
Signed: _____ Date: _____

PROPERTY OWNERS:
NAME: HGS LLC
ADDRESS: 5575 WEST LOOP SOUTH, BELLAIRE, TX 77401
SITE ADDRESS: 5706 BOST LN, CLINTON, MD 20735
TAX ID: 0851667
ZONING: RSF-95
ACREAGE: 14.10 AC.

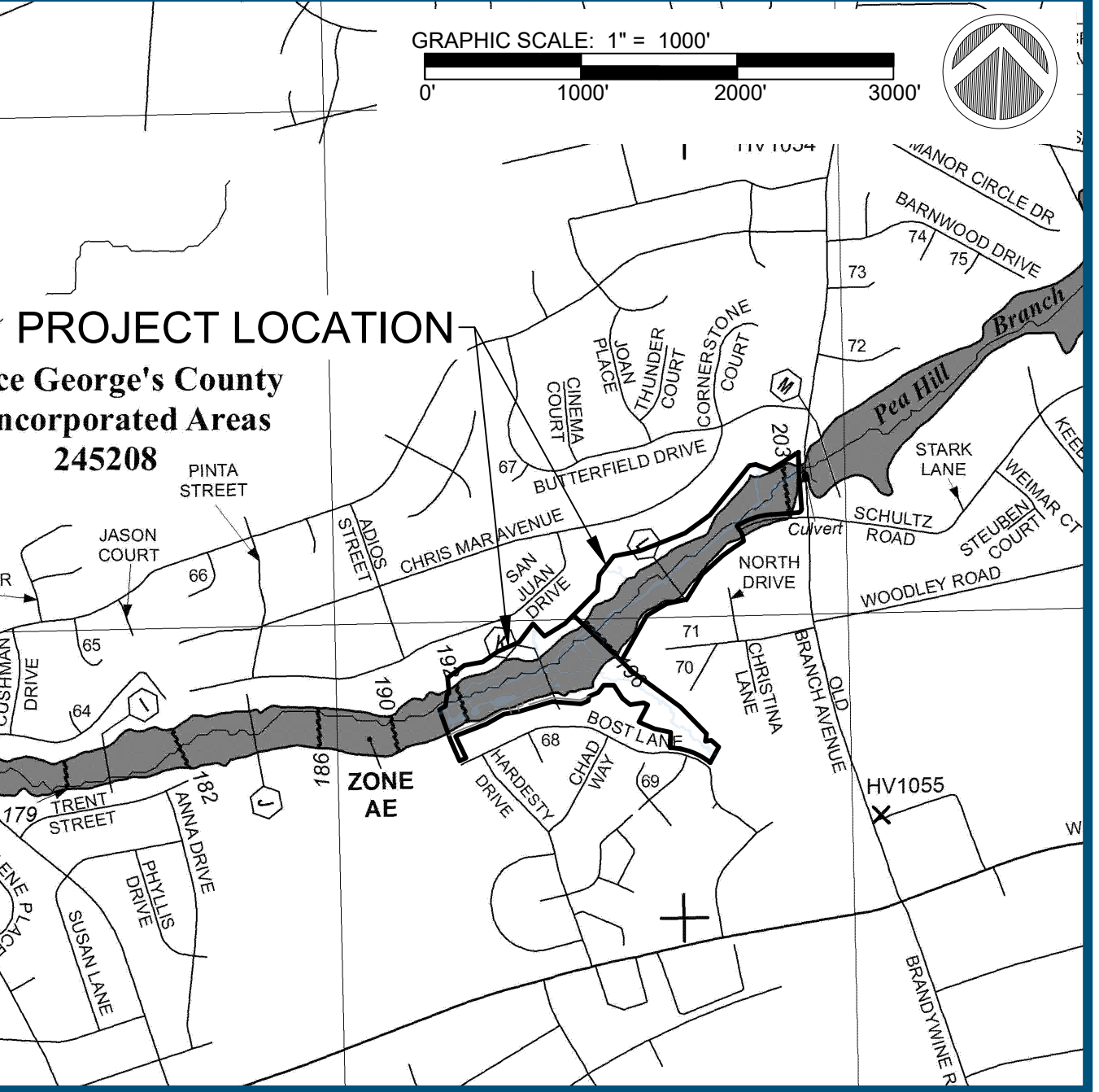
NAME: SAMUEL T WOOD MARITAL TRUST
ADDRESS: 2704 CEDAR DRIVE RIVA, MD 21140
SITE ADDRESS: OLD BRANCH AVE, CLINTON, MD 20735

TAX ID: 0990175
ZONING: RSF-95
ACREAGE: 12.81 AC.

CLIENT:
NAME: CORVIAS PRINCE GEORGE'S COUNTY STORMWATER PARTNERS, LLC.
ADDRESS: 1801 MCCORMICK DRIVE, STE 280 LARGO, MD 20774
CONTACT: DEEPAK SHARMA
EMAIL: SHARMAD@BV.COM

APPLICANT:
NAME: RES
ADDRESS: 5367 TELEPHONE ROAD, WARRENTON, VA 20187
CONTACT: JOEY MONHEIT
EMAIL: JMONHEIT@RES.US
PHONE: 410-236-4986

FEMA FIRMETTE



SHEET LIST TABLE	
SHEET NUMBER	SHEET TITLE
1	COVER SHEET
2	TCP 2 NOTES
3	TCP 2 NOTES (2)
4	TCP 2 DESIGN KEY SHEET
5	TCP 2 DESIGN (1)
6	TCP 2 DESIGN (2)
7	TCP 2 DESIGN (3)
8	TCP 2 DESIGN (4)
9	TCP 2 DETAILS

NOTE: PLEASE SEE THE PEA HILL BRANCH STREAM RESTORATION PLAN SET (DOE PERMIT # 46854-2022-0) FOR TECHNICAL DESIGN. THIS PLAN SET (TCP2-XXX-2023) IS FOR TREE CONSERVATION ONLY.

Property Owners Awareness Certificate

I/ We _____ HGS, LLC dba Resource Environmental Solutions hereby acknowledge that we are aware of this Type 2 Tree Conservation Plan (TCP2) and that we understand the requirements as set forth in this TCP2.
Joseph Monheit 8/17/2023
Owner or Owners Representative Date

TYPE 2 TREE CONSERVATION PLAN APPROVAL BLOCK			
Prince George's Planning Department, M-NCPPC Environmental Planning Section TYPE 2 TREE CONSERVATION PLAN APPROVAL TCP2-030-2023			
Approved by	Date	DRD#	Reason for Revision
01 <i>Samuel T. Wood</i>	10/17/2023		
02			
03			
04			
05			

QUALIFIED PROFESSIONAL CERTIFICATION

This plan complies with the current requirements of Subtitle 25 and the Woodland and Wildlife Conservation Technical Manual.

Signed: *Taura Calloway* Date: 9/27/2023
(Place printed name, address, phone number, and e-mail address of qualified professional below the signature.)

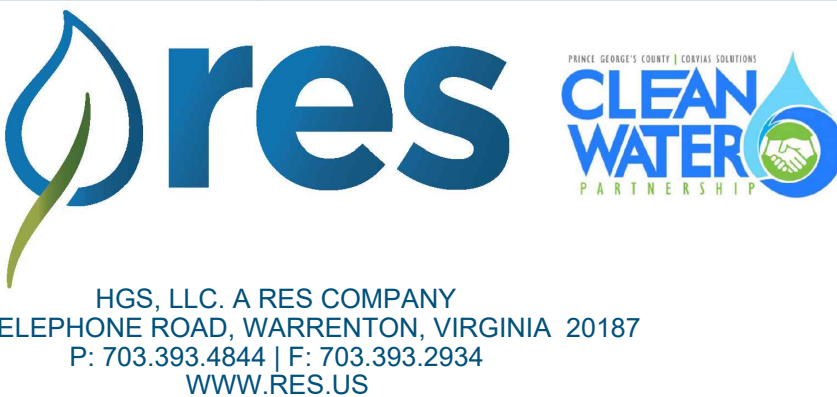
Property Owners Awareness Certificate

I/ We _____ Samuel T. Wood Marital Trust hereby acknowledge that we are aware of this Type 2 Tree Conservation Plan (TCP2) and that we understand the requirements as set forth in this TCP2.
Samuel T. Wood 8/17/2023
Owner or Owners Representative Date

30% DESIGN REVIEW	N/A
PERMIT PLAN DESIGN REVIEW	----
CONSTRUCTION PLAN REVIEW	----
REVISIONS	
FIRST SUBMITTAL 08-11-23	
SECOND SUBMITTAL 09-27-23	

PEA HILL BRANCH STREAM RESTORATION
PRINCE GEORGE'S COUNTY, MD

PROJECT MANAGER:	JM	JOB NUMBER:	101566
DESIGNED:	LS	DESIGN TYPE:	TYPE 2 TREE CONSERVATION PLANS
DRAWN:	LS	PLAN DATE:	9/27/2023



COVER SHEET

I/ We _____ HGS, LLC dba Resource Environmental Solutions _____ hereby acknowledge that we are aware of this Type 2 Tree Conservation Plan (TCP2) and that we understand the requirements as set forth in this TCP2.

Joseph Monheit 8/17/2023
Owner or Owners Representative Date

Property Owners Awareness Certificate

Property Owners Awareness Certificate

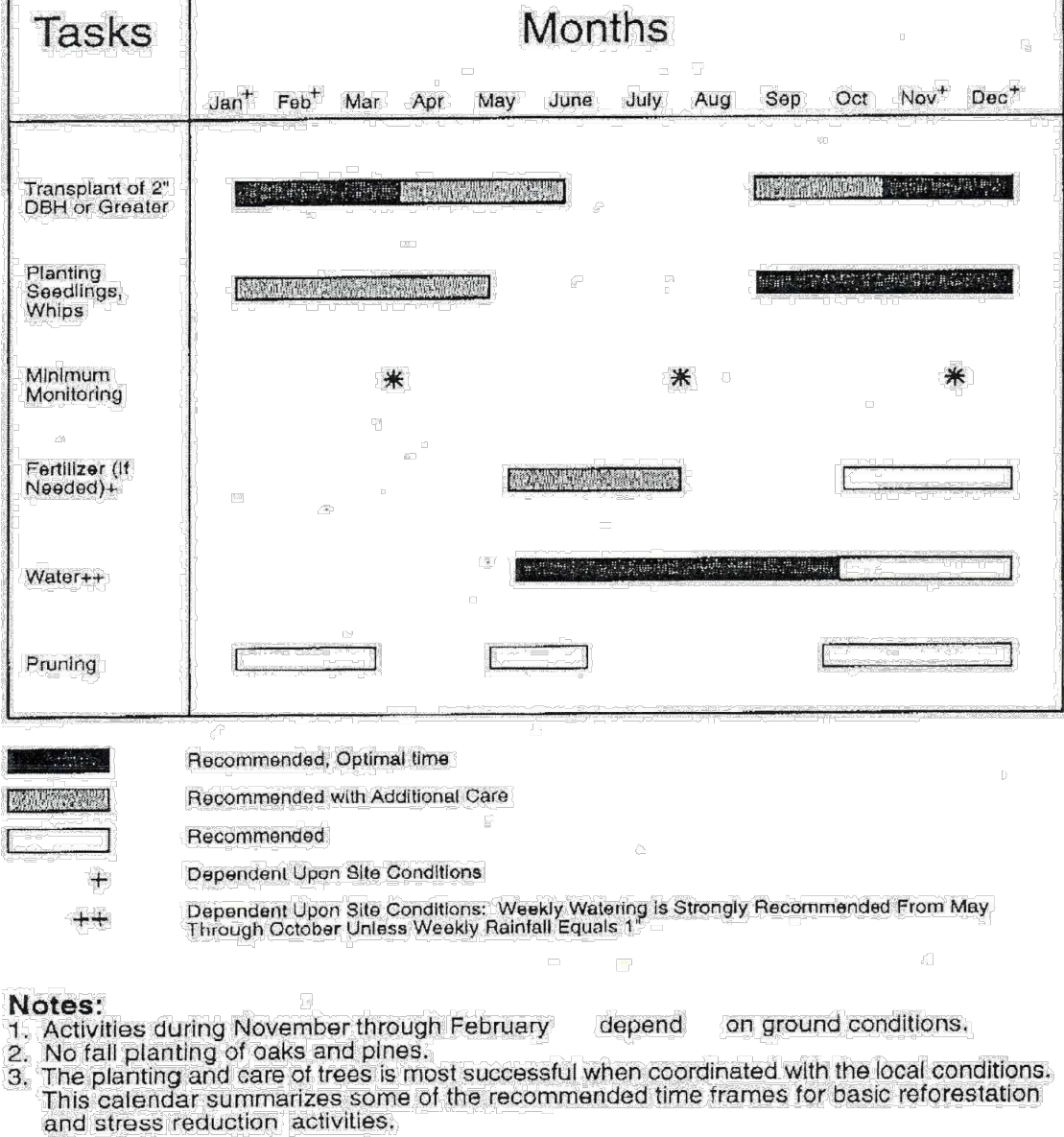
I/ We _____ MAUREN Wood Trust _____ hereby acknowledge that we are aware of this Type 2 Tree Conservation Plan (TCP2) and that we understand the requirements as set forth in this TCP2.

Samuel P. Wood & Maribel Prud 23 8/17/2023
Owner or Owners Representative Date

TCP-35.Site Stocking

Size	Number Required per Acre	Approximate Spacing feet on center	Survivability Requirement At the end of the second growing season	
Bare Root Seedlings or Whips	700	8 x 8	75%	525
Container Grown Seedling Tubes (Minimum Cavity Width 1.5")	500	10 x 10	75%	375
Container Grown 1, 2, 3 Gallon	400	12 x 12	75%	300
Container Grown 5, 7 Gallon or 1" Caliper B & B	300	15 x 15	85%	255
Container Grown 15, 25 Gallon or 1.5 - 2" Caliper B & B	150	20 x 20	100%	150
Notes: 1. These stocking and survival requirements are the minimum numbers estimated to meet the definition of forest from bare land. 2. In certain circumstances, any combination of the above mentioned stocking options, dry seeding, tree shelters, transplants, and/or natural regeneration may be appropriate strategies to fulfill the requirements of an approved TCP. They will be evaluated on a case-by-case basis by the approving authority. 3. Spacing does not imply that trees or shrubs must be planted in a grid pattern.				
Site Stocking				

Source: Adapted from Forest Conservation Manual, 1991



PLANTING SPECIFICATION NOTES:

- QUANTITY: (SEE PLANT SCHEDULE)
- TYPE: (SEE PLANT SCHEDULE)
- PLANT QUALITY STANDARDS: THE PLANTS SELECTED SHALL BE HEALTHY AND STURDY REPRESENTATIVES OF THEIR SPECIES. SEEDLINGS SHALL HAVE A MINIMUM TOP GROWTH OF 18". THE DIAMETER OF THE ROOT COLLAR (THE PART OF THE ROOT JUST BELOW GROUND LEVEL) SHALL BE AT LEAST 3/8". THE ROOTS SHALL BE WELL DEVELOPED AND AT LEAST 8" LONG, NO MORE THAN TWENTY -FIVE PERCENT (25%) OF THE ROOT SYSTEM (BOTH PRIMARY AND AUXILIARY/FIBROUS ROOTS SHALL BE PRESENT. PLANTS THAT DO NOT HAVE AN ABUNDANCE OF WELL DEVELOPED TERMINAL BUDS ON THE LEADERS AND BRANCHES SHALL BE REJECTED. PLANTS SHALL BE SHIPPED BY THE NURSERY IMMEDIATELY AFTER LIFTING FROM THE FIELD OR REMOVAL FROM THE GREEN HOUSE, AND PLANTED IMMEDIATELY UPON RECEIPT BY THE LANDSCAPE CONTRACTOR. IF THE PLANTS CANNOT BE PLANTED IMMEDIATELY AFTER DELIVERY TO THE REFORESTATION SITE, THEY SHALL BE STORED IN THE SHADE WITH THEIR ROOT MASSES PROTECTED FROM DIRECT EXPOSURE TO SUN AND WIND BY THE USE OF STRAW, PEAT MOSS, COMPOST, OR OTHER SUITABLE MATERIAL AND SHALL BE MAINTAINED THROUGH PERIODIC WATERING UNTIL THE TIME OF PLANTING.
- PLANT HANDLING: THE QUANTITY OF SEEDLINGS TAKEN TO THE FIELD SHALL NOT EXCEED THE QUANTITY THAT CAN BE PLANTED IN A DAY. SEEDLINGS, ONCE REMOVED FROM THE NURSERY OR TEMPORARY STORAGE AREA SHALL BE PLANTED IMMEDIATELY.
- TIMING OF PLANTING: THE BEST TIME TO PLANT SEEDLINGS IS WHILE THEY ARE DORMANT, PRIOR TO SPRING BUDDING. THE MOST SUITABLE MONTHS FOR PLANTING ARE MARCH AND APRIL, WHEN THE SOIL IS MOIST, BUT MAY BE PLANTED FROM MARCH THROUGH NOVEMBER. NO PLANTING SHALL BE DONE WHILE GROUND IS FROZEN. PLANTING SHALL OCCUR WITHIN ONE GROWING SEASON OF THE ISSUANCE OF GRADING /BUILDING PERMITS AND/OR REACHING THE FINAL GRADES AND STABILIZATION OF PLANTING AREAS.
- SEEDLING PLANTING: TREE SEEDLINGS SHALL BE HAND PLANTED USING A DIBBLE BAR OR SHARP-SHOOTER SHOVEL. IT IS IMPORTANT THAT THE SEEDLING BE PLACED IN THE HOLE SO THAT THE ROOTS CAN SPREAD OUT NATURALLY; THEY SHOULD NOT BE TWISTED, BALLED UP OR BENT. MOIST SOIL SHOULD THEN BE PACKED FIRMLY AROUND THE ROOTS. SEEDLINGS SHOULD BE PLANTED AT A DEPTH WHERE THEIR ROOTS LIE JUST BELOW THE GROUND SURFACE. AIR POCKETS SHOULD NOT BE LEFT AFTER CLOSING THE HOLE WHICH WOULD ALLOW THE ROOTS TO DRY OUT. SEE PLANTING DETAILS FOR FURTHER EXPLANATION. IF THE CONTRACTOR WISHES TO PLANT BY ANOTHER METHOD, THE PREPARER OF THIS TREE CONSERVATION PLAN MUST BE CONTACTED AND GIVE HIS APPROVAL BEFORE PLANTING MAY BEGIN.
- SPACING: SEE PLANT SCHEDULE AND/OR PLANTING PLAN FOR SPACING REQUIREMENTS. ALSO REFER TO THE PLANTING LAYOUT DETAIL FOR A DESCRIPTION OF THE GENERAL PLANTING THEORY.
- SOIL: UPON THE COMPLETION OF ALL GRADING OPERATIONS, A SOIL TEST SHALL BE CONDUCTED TO DETERMINE WHAT SOIL PREPARATION AND SOIL AMENDMENTS, IF ANY, ARE NECESSARY TO CREATE GOOD TREE GROWING CONDITIONS. SOIL SAMPLES SHALL BE TAKEN AT A RATE THAT PROVIDES ONE SOIL SAMPLE FOR EACH AREA THAT APPEARS TO HAVE A DIFFERENT SOIL TYPE (IF THE ENTIRE AREA APPEARS UNIFORM, THEN ONLY ONE SAMPLE IS NECESSARY), AND SUBMITTED FOR TESTING TO A PRIVATE COMPANY. THE COMPANY OF CHOICE SHALL MAKE RECOMMENDATIONS FOR IMPROVING THE EXISTING SOIL. THE SOIL WILL BE TESTED AND RECOMMENDED FOR CORRECTIONS OF SOIL TEXTURE, PH, MAGNESIUM, PHOSPHORUS, POTASSIUM, CALCIUM AND ORGANIC MATTER.
- SOIL IMPROVEMENT MEASURES: THE SOIL SHALL THEN BE IMPROVED ACCORDING TO THE RECOMMENDATIONS MADE BY THE TESTING COMPANY.
- FENCING AND SIGNAGE: FINAL PROTECTIVE FENCING SHALL BE PLACED ON THE VISIBLE AND/OR DEVELOPMENT SIDE OF PLANTING AREAS. THE FINAL PROTECTIVE FENCE SHALL BE INSTALLED UPON COMPLETION OF PLANTING OPERATIONS UNLESS IT WAS INSTALLED DURING THE INITIAL STAGES OF DEVELOPMENT. SIGNS SHALL BE POSTED PER THE SIGNAGE DETAIL ON SHEET 4.
- PLANTING METHOD: CONSULT THE PLANTING DETAIL(S) SHOWN ON THIS PLAN.
- MULCHING: APPLY TWO-INCH THICK LAYER OF WOODCHIP OR SHREDDED HARDWOOD MULCH (AS NOTED) TO EACH PLATING SITE (SEE DETAIL SHOWN ON THIS PLAN).
- GROUNDCOVER ESTABLISHMENT: THE REMAINING DISTURBED AREA BETWEEN SEEDLING PLANTING SITES SHALL BE SEEDED AND STABILIZED WITH WHITE CLOVER SEED AT THE RATE OF 5 LBS/ACRE.
- MOWING: NO MOWING SHALL BE ALLOWED IN ANY PLANTING AREA.
- SURVIVAL CHECK FOR BOND RELEASE: THE SEEDLING PLANTING IS TO BE CHECKED AT THE END OF EACH YEAR FOR FOUR YEARS TO ASSURE THAT NO LESS THAN 75% OF THE ORIGINAL PLANTED QUANTITY SURVIVES. IF THE MINIMUM NUMBER HAS NOT BEEN PROVIDED THE AREA MUST BE SUPPLEMENTED WITH ADDITIONAL SEEDLINGS TO REACH THE REQUIRED NUMBER AT TIME OF PLANTING.
- SOURCE OF SEEDLINGS: TBD

FOUR-YEAR MANAGEMENT PLAN FOR REFORESTATION AREAS

FIELD CHECK THE REFORESTATION AREA ACCORDING TO THE FOLLOWING SCHEDULE:

- YEAR 1: SITE PREPARATION AND TREE PLANTING SURVIVAL CHECK ONCE ANNUALLY (SEPTEMBER-NOVEMBER) SEE NOTE 1) WATERING IS NEEDED (2 X MONTH) CONTROL OF UNDESIRABLE VEGETATION AS NEEDED (1 X IN JUNE AND 1 X IN SEPTEMBER MIN.)
- YEAR 2-3: REINFORCEMENT PLANTING IS NEEDED (SEE NOTE 2) SURVIVAL CHECK ONCE ANNUALLY (SEPTEMBER-NOVEMBER) CONTROL OF UNDESIRABLE VEGETATION IF NEEDED (1 X IN MAY AND 1 X IN AUGUST MIN.)
- YEAR 4: REINFORCEMENT PLANTING IF NEEDED. (SEE NOTE 2) SURVIVAL CHECK (SEPTEMBER - NOVEMBER)
- SURVIVAL CHECK: CHECK PLANTED STOCK AGAINST PLANT LIST (OR AS- BUILT) BY WALKING THE SITE AND TAKING INVENTORY. PLANTS MUST SHOW VITALITY. SUBMIT FIELD DATA FORMS (CONDITION CHECK SHEETS) TO OWNER AFTER EACH INSPECTION. REMOVE ALL DEAD PLANTS.
 - REINFORCEMENT PLANTING: REPLACE DEAD OR MISSING PLANTS IN SUFFICIENT QUANTITY TO BRING THE TOTAL NUMBER OF LIVE PLANTS TO AT LEAST 75% OF THE NUMBER ORIGINALLY PLANTED. IF A PARTICULAR SPECIES SUFFERS UNUSUALLY HIGH MORTALITY, REPLACE WITH AN ALTERNATIVE PLANT TYPE.
 - MISCELLANEOUS: FERTILIZATION OR WATERING DURING YEARS 1 THROUGH 3 WILL BE DONE ON AN AS NEEDED BASIS. SPECIAL RETURN OPERATIONS OR RECOMMENDATIONS WILL BE CONDUCTED ON AN AS NEEDED BASIS.

GENERAL NOTES:

- THIS PLAN IS SUBMITTED TO FULFILL THE WOODLAND CONSERVATION REQUIREMENTS FOR DOE# 46854-2022-0. IF THIS GRADING PERMIT EXPIRES, THEN THIS TCP2 ALSO EXPIRES AND IS NO LONGER VALID.
- CUTTING OR CLEARING OF WOODLAND NOT IN CONFORMANCE WITH THIS PLAN OR WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE PLANNING DIRECTOR OR DESIGNEE SHALL BE SUBJECT TO A \$9.00 PER SQUARE FOOT MITIGATION FEE.
- A PRE-CONSTRUCTION MEETING IS REQUIRED PRIOR TO THE ISSUANCE OF GRADING PERMITS. THE DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION OR THE DEPARTMENT OF ENVIRONMENTAL RESOURCES, AS APPROPRIATE, SHALL BE CONTACTED PRIOR TO THE START OF ANY WORK ON THE SITE TO CONDUCT A PRE-CONSTRUCTION MEETING WHERE IMPLEMENTATION OF WOODLAND CONSERVATION MEASURES SHOWN ON THIS PLAN WILL BE DISCUSSED IN DETAIL.
- THE DEVELOPER OR BUILDER OF THE LOTS OR PARCELS SHOWN ON THIS PLAN SHALL NOTIFY FUTURE BUYERS OF ANY WOODLAND CONSERVATION AREAS THROUGH THE PROVISION OF A COPY OF THIS PLAN AT TIME OF CONTRACT SIGNING. FUTURE PROPERTY OWNERS ARE ALSO SUBJECT TO THIS REQUIREMENT.
- THE OWNERS OF THE PROPERTY SUBJECT TO THIS TREE CONSERVATION PLAN ARE SOLELY RESPONSIBLE FOR CONFORMANCE TO THE REQUIREMENTS CONTAINED HEREIN.
- THE PROPERTY IS WITHIN THE DEVELOPING TIER AND IS ZONED RSF-95.
- THE SITE IS NOT ADJACENT TO A ROADWAY DESIGNATED AS SCENIC, HISTORIC, A PARKWAY OR A SCENIC BYWAY.
- THE SITE IS NOT ADJACENT TO A ROADWAY CLASSIFIED AS ARTERIAL OR GREATER.
- THIS PLAN IS NOT GRANDFATHERED UNDER CB-27-2010, SECTION 25-117 (G).

AFFORESTATION AND REFORESTATION NOTES

- ALL AFFORESTATION AND REFORESTATION BONDS, BASED ON SQUARE FOOTAGE, SHALL BE POSTED WITH THE COUNTY PRIOR TO THE ISSUANCE OF ANY PERMITS. THESE BONDS WILL BE RETAINED AS SURETY UNTIL ALL REQUIRED ACTIVITIES HAVE BEEN SATISFIED OR THE REQUIRED TIMEFRAME FOR MAINTENANCE HAS PASSED, WHICHEVER IS LONGER.
- THE PLANTING OF AFFORESTATION OR REFORESTATION AREAS SHALL BE COMPLETED PRIOR TO THE ISSUANCE OF THE FIRST BUILDING PERMIT. SEEDLING PLANTING IS TO OCCUR FROM NOVEMBER THROUGH MAY ONLY. NO PLANTING SHALL BE DONE WHILE GROUND IS FROZEN. PLANTING WITH LARGER CALIPER STOCK OR CONTAINERIZED STOCK MAY BE DONE AT ANY TIME PROVIDED A DETAILED MAINTENANCE SCHEDULE IS PROVIDED.
- IF PLANTING CANNOT OCCUR DUE TO PLANTING CONDITIONS, THE DEVELOPER OR PROPERTY OWNER SHALL INSTALL THE FENCING AND SIGNAGE IN ACCORDANCE WITH THE APPROVED TYPE 2 TREE CONSERVATION PLAN. PLANTING SHALL THEN BE ACCOMPLISHED DURING THE NEXT PLANTING SEASON. IF PLANTING IS DELAYED BEYOND THE TRANSFER OF THE PROPERTY TITLE TO THE HOMEOWNER, THE DEVELOPER OR BUILDER SHALL OBTAIN A SIGNED STATEMENT FROM THE PURCHASER INDICATING THAT THEY UNDERSTAND THAT THE REFORESTATION AREA IS LOCATED ON THEIR PROPERTY AND THAT REFORESTATION WILL OCCUR DURING THE NEXT PLANTING SEASON. A COPY OF THAT DOCUMENT SHALL BE PRESENTED TO THE GRADING INSPECTOR AND THE COUNTY.
- REFORESTATION AREAS SHALL NOT BE MOWED. THE MANAGEMENT OF COMPETING VEGETATION AROUND INDIVIDUAL TREES AND THE REMOVAL OF NOXIOUS, INVASIVE, AND NON-NATIVE VEGETATION WITHIN THE REFORESTATION AREAS IS ACCEPTABLE.
- ALL REQUIRED TEMPORARY TREE PROTECTION FENCING SHALL BE INSTALLED PRIOR TO THE CLEARING AND GRADING OF THE SITE AND SHALL REMAIN IN PLACE UNTIL THE PERMANENT TREE PROTECTION FENCING IS INSTALLED WITH THE REQUIRED PLANTING. THE TEMPORARY FENCING IS NOT REQUIRED TO BE INSTALLED IF THE PERMANENT FENCING IS INSTALLED PRIOR TO CLEARING AND GRADING OF THE SITE. FAILURE TO INSTALL AND MAINTAIN TEMPORARY OR PERMANENT TREE PROTECTIVE FENCING IS A VIOLATION OF THIS TCP2.
- AFFORESTATION/REFORESTATION AREAS SHALL BE POSTED WITH NOTIFICATION SIGNAGE, AS SHOWN ON THE PLANS, AT THE SAME TIME AS THE PERMANENT PROTECTION FENCING INSTALLATION. THESE SIGNS SHALL REMAIN IN PERPETUITY.
- THE COUNTY INSPECTOR SHALL BE NOTIFIED PRIOR TO SOIL PREPARATION OR INITIATION OF ANY TREE PLANTING ON THIS SITE.
- AT TIME OF ISSUANCE OF THE FIRST PERMIT, THE FOLLOWING INFORMATION SHALL BE SUBMITTED TO THE M-NCPPC PLANNING DEPARTMENT REGARDING THE CONTRACTOR RESPONSIBLE FOR IMPLEMENTATION OF THIS PLAN: CONTRACTOR NAME; BUSINESS NAME (IF DIFFERENT); ADDRESS; AND PHONE NUMBER. RESULTS OF ANNUAL SURVIVAL CHECKS FOR EACH OF THE REQUIRED FOUR YEARS AFTER TREE PLANTING SHALL BE REPORTED TO THE M-NCPPC, PLANNING DEPARTMENT.
- FAILURE TO ESTABLISH THE AFFORESTATION OR REFORESTATION WITHIN THE PRESCRIBED TIME FRAME WILL RESULT IN THE FORFEITURE OF THE REFORESTATION BOND AND/OR A VIOLATION OF THIS PLAN INCLUDING THE ASSOCIATED \$9.00 PER SQUARE FOOT PENALTY UNLESS THE COUNTY INSPECTOR APPROVES A WRITTEN EXTENSION.

INVASIVE SPECIES REMOVAL NOTES

- THE REMOVAL OF NOXIOUS, INVASIVE, AND NON-NATIVES PLANT SPECIES SHALL BE DONE WITH THE USE OF HAND-HELD EQUIPMENT ONLY SUCH AS PRUNERS OR A CHAIN SAW. THESE PLANTS MAY BE CUT NEAR THE GROUND AND THE MATERIAL LESS THAN TWO INCHES DIAMETER MAY BE REMOVED FROM THE AREA AND DISPOSED OF APPROPRIATELY. ALL MATERIAL FROM THESE NOXIOUS, INVASIVE, AND NON-NATIVE PLANTS GREATER THAN TWO (2) INCHES DIAMETER SHALL BE CUT TO ALLOW CONTACT WITH THE GROUND, THUS ENCOURAGING DECOMPOSITION.
- THE USE OF BROADCAST SPRAYING OF HERBICIDES IS NOT PERMITTED. HOWEVER, THE USE OF HERBICIDES TO DISCOURAGE RE-SPROUTING OF INVASIVE, NOXIOUS, OR NON-NATIVE PLANTS IS PERMITTED IF DONE AS AN APPLICATION OF THE CHEMICAL DIRECTLY TO THE CUT STUMP IMMEDIATELY FOLLOWING CUTTING OF PLANT TOPS. THE USE OF ANY HERBICIDE SHALL BE DONE IN ACCORDANCE WITH THE LABEL INSTRUCTIONS AND BE APPLIED BY A CERTIFIED PESTICIDE APPLICATOR. WHEN VIRGINIA PINES ARE PRESENT WITHIN 40 FEET OF THE LIMITS OF DISTURBANCE IN A PRESERVATION AREA:

TYPE 2 TREE CONSERVATION PLAN APPROVAL BLOCK			
Prince George's Planning Department, M-NCPPC Environmental Planning Section TYPE 2 TREE CONSERVATION PLAN APPROVAL TCP2-030-2023			
Approved by	Date	DRD#	Reason for Revision
01 <u>Chris Stinson</u>	10/17/2023		
02			
03			
04			
05			

QUALIFIED PROFESSIONAL CERTIFICATION

This plan complies with the current requirements of Subtitle 25 and the Woodland and Wildlife Conservation Technical Manual.

Signed: Sandra Calloway Date: 9/27/2023

(Place printed name, address, phone number, and e-mail address of qualified professional below the signature.)

STAMP/SEAL:

30% DESIGN REVIEW

Signature Date

PERMIT PLAN DESIGN REVIEW

09/01/23

CONSTRUCTION PLAN REVIEW

x Signature Date

REVISIONS:

FIRST SUBMITTAL 08-11-23

SECOND SUBMITTAL 09-27-23

PROJECT MANAGER: JM

DESIGNED: LS

DRAWN: LS

JOB NUMBER: 101566

DESIGN TYPE: TYPE 2 TCP

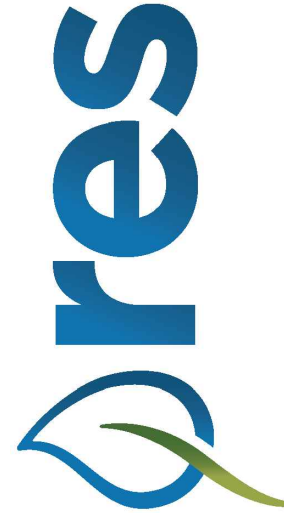
DATE: 9/27/2023

SHEET NO:

PEA HILL BRANCH STREAM RESTORATION
CORVIAS PRINCE GEORGE'S COUNTY STORMWATER
PARTNER, LLC.

TCP 2 NOTES

PRINCE GEORGE'S COUNTY, MD



HGS, LLC A RES COMPANY
1408 ROSENEATH ROAD, SUITE B, RICHMOND, VIRGINIA 23230
WWW.RES.US

PROPOSED TREE PLANTING PALETTES

UPLAND TREES PLANTING LIST

PLANTING DENSITY: 775 STEMS/ACRE (7.5-FT-ON-CEN AREA: 2.94 ACRES

BOTANICAL NAME	COMMON NAME	PERCENT OF MIX	# OF STEMS	PLANTING STOCK TYPE & SIZE
<i>Acer negundo</i>	Box elder	10%	240	BAREROOT, 12-24"
<i>Acer rubrum</i>	Red maple	6%	145	BAREROOT, 12-24"
<i>Carpinus caroliniana</i>	Ironwood	6%	145	BAREROOT, 12-24"
<i>Ilex opaca</i>	American holly	6%	145	BAREROOT, 12-24"
<i>Liquidambar styraciflua</i>	Sweet-gum	10%	240	BAREROOT, 12-24"
<i>Liriodendron tulipifera</i>	Tuliptree	4%	95	BAREROOT, 12-24"
<i>Platanus occidentalis</i>	American sycamore	12%	285	BAREROOT, 12-24"
<i>Prunus angustifolia</i>	Chicksaw plum	6%	145	BAREROOT, 12-24"
<i>Quercus alba</i>	White oak	6%	145	BAREROOT, 12-24"
<i>Quercus phellos</i>	Willow oak	8%	190	BAREROOT, 12-24"
<i>Quercus rubra</i>	Northern red oak	8%	190	BAREROOT, 12-24"
<i>Robinia pseudoacacia</i>	Black locust	12%	285	BAREROOT, 12-24"
<i>Viburnum dentatum</i>	Southern arrow-wood	6%	145	BAREROOT, 12-24"
TOTALS		100%	2,279	

FLOODPLAIN & WETLAND TREES PLANTING LIST

PLANTING DENSITY: 775 STEMS/ACRE (7.5-FT AREA: 6.9 ACRES

BOTANICAL NAME	COMMON NAME	PERCENT OF MIX	# OF STEMS	PLANTING STOCK TYPE & SIZE
<i>Acer negundo</i>	Box elder	10%	560	BAREROOT, 12-24"
<i>Acer rubrum</i>	Red maple	5%	280	BAREROOT, 12-24"
<i>Alnus serrulata</i>	Hazel alder	3%	170	BAREROOT, 12-24"
<i>Betula nigra</i>	River birch	7%	395	BAREROOT, 12-24"
<i>Carpinus caroliniana</i>	Ironwood	5%	280	BAREROOT, 12-24"
<i>Cephalanthus occidentalis</i>	Buttonbush	3%	170	BAREROOT, 12-24"
<i>Clethra alnifolia</i>	Sweetspire	3%	170	BAREROOT, 12-24"
<i>Cornus amomum</i>	Silky dogwood	3%	170	BAREROOT, 12-24"
<i>Lindera benzoin</i>	Spicebush	3%	170	BAREROOT, 12-24"
<i>Liquidambar styraciflua</i>	Sweet-gum	10%	560	BAREROOT, 12-24"
<i>Platanus occidentalis</i>	American sycamore	12%	675	BAREROOT, 12-24"
<i>Prunus serotina</i>	Black cherry	5%	280	BAREROOT, 12-24"
<i>Quercus alba</i>	White oak	5%	280	BAREROOT, 12-24"
<i>Quercus michauxii</i>	Swamp chestnut oak	5%	280	BAREROOT, 12-24"
<i>Quercus phellos</i>	Willow oak	7%	395	BAREROOT, 12-24"
<i>Quercus rubra</i>	Northern red oak	3%	170	BAREROOT, 12-24"
<i>Rosa palustris</i>	Swamp rose	3%	170	BAREROOT, 12-24"
<i>Sambucus canadensis</i>	Elderberry	3%	170	BAREROOT, 12-24"
<i>Taxodium distichum</i>	Baldcypress	5%	280	BAREROOT, 12-24"
TOTALS		100%	5,348	

PLANTING SCHEDULE-WOODLAND REFORESTATION AREA						
REFORESTATION AREA IDENTIFIER	ACREAGE	SQUARE FOOTAGE	SIZE	NUMBER REQUIRED PER ACRE	PLANTING CREDITS	SHEET NUMBER
WRA-1	0.340	14,931.98	BARE ROOT SEEDLINGS OR WHIPS	775	264	5
UPLAND	0.041	1,796.04				
WETLAND/FLOODPLAIN	0.299	13,135.94				
WRA-2	0.440	19,526.38	BARE ROOT SEEDLINGS OR WHIPS	775	341	5
UPLAND	0.000	0.00				
WETLAND/FLOODPLAIN	0.440	19,526.38				
WRA-3	0.140	6,315.18	BARE ROOT SEEDLINGS OR WHIPS	775	109	5
UPLAND	0.047	2,053.31				
WETLAND/FLOODPLAIN	0.093	4,261.87				
WRA-4	0.950	41,317.84	BARE ROOT SEEDLINGS OR WHIPS	775	736	5
UPLAND	0.360	15,672.96				
WETLAND/FLOODPLAIN	0.590	25,644.88				
WRA-4A	0.590	25,773.42	BARE ROOT SEEDLINGS OR WHIPS	776	458	5
UPLAND	0.099	4,304.80				
WETLAND/FLOODPLAIN	0.491	21,468.62				
WRA-5	0.018	882.69	BARE ROOT SEEDLINGS OR WHIPS	775	14	5
UPLAND	0.000	0.00				
WETLAND/FLOODPLAIN	0.018	882.69				
WRA-6	0.800	35,019.38	BARE ROOT SEEDLINGS OR WHIPS	775	620	5
UPLAND	0.000	0.00				
WETLAND/FLOODPLAIN	0.800	35,019.38				
WRA-7	0.377	16,446.93	BARE ROOT SEEDLINGS OR WHIPS	775	292	6
UPLAND	0.000	0.00				
WETLAND/FLOODPLAIN	0.377	16,446.93				
WRA-8	0.660	28,732.76	BARE ROOT SEEDLINGS OR WHIPS	775	512	6
UPLAND	0.262	11,430.46				
WETLAND/FLOODPLAIN	0.398	17,302.30				
WRA-9	0.040	1,669.44	BARE ROOT SEEDLINGS OR WHIPS	775	31	6
UPLAND	0.000	0.00				
WETLAND/FLOODPLAIN	0.040	1,669.44				
WRA-10	0.840	36,585.90	BARE ROOT SEEDLINGS OR WHIPS	775	651	6
UPLAND	0.090	3,917.17				
WETLAND/FLOODPLAIN	0.750	32,668.73				
WRA-11	0.340	14,833.10	BARE ROOT SEEDLINGS OR WHIPS	775	264	6
UPLAND	0.000	0.00				
WETLAND/FLOODPLAIN	0.340	14,833.10				
WRA-12	0.040	1,857.65	BARE ROOT SEEDLINGS OR WHIPS	775	31	6
UPLAND	0.000	0.00				
WETLAND/FLOODPLAIN	0.040	1,857.65				
WRA-13	0.002	90.00	BARE ROOT SEEDLINGS OR WHIPS	775	2	6
UPLAND	0.000	0.00				
WETLAND/FLOODPLAIN	0.002	90.00				
WRA-14	0.510	22,054.27	BARE ROOT SEEDLINGS OR WHIPS	775	395	7
UPLAND	0.108	4,724.58				
WETLAND/FLOODPLAIN	0.402	17,329.69				
WRA-15	0.015	656.90	BARE ROOT SEEDLINGS OR WHIPS	775	12	7
UPLAND	0.000	0.00				
WETLAND/FLOODPLAIN	0.015	656.90				
WRA-16	0.049	2,155.96	BARE ROOT SEEDLINGS OR WHIPS	775	38	6
UPLAND	0.000	0.00				
WETLAND/FLOODPLAIN	0.049	2,155.96				
WRA-17	0.033	1,466.84	BARE ROOT SEEDLINGS OR WHIPS	775	26	7
UPLAND	0.000	0.00				
WETLAND/FLOODPLAIN	0.033	1,466.84				
WRA-18	0.240	10,381.22	BARE ROOT SEEDLINGS OR WHIPS	775	186	7
UPLAND	0.000	0.00				
WETLAND/FLOODPLAIN	0.240	10,381.22				
WRA-19	0.030	1,323.01	BARE ROOT SEEDLINGS OR WHIPS	775	23	7
UPLAND	0.000	0.00				
WETLAND/FLOODPLAIN	0.030	1,323.01				
WRA-20	0.160	6,947.84	BARE ROOT SEEDLINGS OR WHIPS	775	124	7
UPLAND	0.000	0.00				
WETLAND/FLOODPLAIN	0.160	6,947.84				
WRA-21	0.450	19,760.53	BARE ROOT SEEDLINGS OR WHIPS	775	349	7
UPLAND	0.241	10,496.04				
WETLAND/FLOODPLAIN	0.209	9,264.49				
WRA-22	1.200	52,268.62	BARE ROOT SEEDLINGS OR WHIPS	775	930	8
UPLAND	0.795	34,626.21				
WETLAND/FLOODPLAIN	0.405	17,642.41				
WRA-23	0.918	40,027.11	BARE ROOT SEEDLINGS OR WHIPS	775	711	8
UPLAND	0.382	16,643.08				
WETLAND/FLOODPLAIN	0.536	23,384.03				
WRA-24	0.170	7,505.01	BARE ROOT SEEDLINGS OR WHIPS	775	132	8
UPLAND	0.102	4,458.15				
WETLAND/FLOODPLAIN	0.068	3,046.86				
WRA-25	0.284	12,395.34	BARE ROOT SEEDLINGS OR WHIPS	775	220	8
UPLAND	0.207	9,021.45				
WETLAND/FLOODPLAIN	0.077	3,373.89				
WRA-26	0.060	2,821.70	BARE ROOT SEEDLINGS OR WHIPS	775	47	8
UPLAND	0.053	2,306.53				
WETLAND/FLOODPLAIN	0.007	515.17				
WRA-27	0.140	6,290.12	BARE ROOT SEEDLINGS OR WHIPS	775	109	8
UPLAND	0.125	5,455.15				
WETLAND/FLOODPLAIN	0.015	834.97				
TOTAL REFORESTATION AREA:	9.84	430,037.12		TOTAL SITE PLANTING CREDITS:	7623	

TABLE 3. SPECIMEN TREE INVENTORY								
TREE NUMBER	COMMON NAME	SCIENTIFIC NAME	DBH (INCHES)	CONDITION RATING	CONDITION COMMENTS	DISPOSITION	SHEET NUMBER	TREE LOCATION
ST-125	SWEETGUM	LIQUIDAMBAR STYRACIFLUA	32	POOR	HEAVY LEANING, VINES, TRUNK WOUND AND DECAY	REMOVE	5	ON-SITE
ST-139	TULIP POPLAR	LIRIODENDRON TULIPIFERA	30	POOR	HEAVY VINES	REMOVE	5	ON-SITE
ST-141	TULIP POPLAR	LIRIODENDRON TULIPIFERA	36	FAIR	VINES, BASAL DAMAGE	SAVE	6	ON-SITE
ST-146	SWEET GUM	LIQUIDAMBAR STYRACIFLUA	30	GOOD		SAVE	5	ON-SITE
ST-149	SWEET GUM	LIQUIDAMBAR STYRACIFLUA	31.5	GOOD		SAVE	5	ON-SITE
ST-152	RED MAPLE	ACER RUBRUM	32	POOR	HEAVY VINES, LEANING, BASAL DAMAGE	REMOVE	5	ON-SITE
ST-17	WHITE OAK	QUERCUS ALBA	39	FAIR	BROKEN BRANCHES	SAVE	6	ON-SITE
ST-183	CHESTNUT OAK	QUERCUS PRINUS	53	GOOD		SAVE	5	OFF-SITE
ST-194	CHESTNUT OAK	QUERCUS PRINUS	41	FAIR	BASAL DAMAGE	SAVE	5	OFF-SITE
ST-3	WHITE OAK	QUERCUS ALBA	37	GOOD		SAVE	6	OFF-SITE
ST-51	SWEET GUM	LIQUIDAMBAR STYRACIFLUA	32	GOOD		SAVE	6	OFF-SITE
ST-67	WHITE OAK	QUERCUS ALBA	36	FAIR	VINES, DEAD BRANCHES	SAVE	6	ON-SITE
ST-68	TULIP POPLAR	LIRIODENDRON TULIPIFERA	33	POOR	BROKEN BRANCHES, HEAVY VINES	SAVE	6	ON-SITE
ST-73	PERSIMMON	DIOSPYROS VIRGINIANA	34	DEAD	SNAG	SAVE	6	ON-SITE
ST-75	WHITE OAK	QUERCUS ALBA	32.5	GOOD		SAVE	5	ON-SITE
ST-81	SWEET GUM	LIQUIDAMBAR STYRACIFLUA	37	POOR	HEAVY VINES	SAVE	5	ON-SITE
ST-84	WHITE OAK	QUERCUS ALBA	31.5	GOOD		SAVE	5	ON-SITE
ST-91	TULIP POPLAR	LIRIODENDRON TULIPIFERA	30.5	POOR	BROKEN BRANCHES	SAVE	5	ON-SITE
ST-38	RED OAK	QUERCUS RUBRA	30	FAIR		SAVE	6	ON-SITE
ST-10549	RED MAPLE	ACER RUBRUM	31	P	BROKEN BRANCHES, CROOKED	SAVE	7	ON-SITE
ST-10550	RED MAPLE	ACER RUBRUM	30	G	CROOKED	SAVE	7	ON-SITE
ST-10551	RED MAPLE	ACER RUBRUM	32	F	BASAL DAMAGE	SAVE	7	ON-SITE
ST-10554	RED MAPLE	ACER RUBRUM	36	P	BASAL DAMAGE	SAVE	7	ON-SITE
ST-10559	WHITE OAK	QUERCUS ALBA	37	F	LEANING, CROOKED, BROKEN BRANCHES	SAVE	7	ON-SITE
ST-10563	TULIP POPLAR	LIRIODENDRON TULIPIFERA	30	G		SAVE	7	ON-SITE
ST-11105	TULIP POPLAR	LIRIODENDRON TULIPIFERA	33	G		SAVE	7	ON-SITE
ST-11107	RED MAPLE	ACER RUBRUM	52	P	BASAL DAMAGE, SPLIT 3', HOLE	SAVE	7	ON-SITE
ST-11108	RED MAPLE	ACER RUBRUM	32	F	LEANING, VINES	SAVE	7	ON-SITE
ST-11109	WHITE OAK	QUERCUS ALBA	50	F	VINES, DEAD BRANCHES	SAVE	7	ON-SITE
ST-11111	RED MAPLE	ACER RUBRUM	33	G	VINES	SAVE	7	ON-SITE
ST-11118	RED MAPLE	ACER RUBRUM	39	F	HEAVY VINES, BROKEN LEADER, LEANING	REMOVE	7	ON-SITE
ST-11119	NORTHERN RED OAK	QUERCUS RUBRA	42	F	SOME VINES, BROKEN BRANCHES	SAVE	7	ON-SITE
ST-11128	TULIP POPLAR	LIRIODENDRON TULIPIFERA	30	G		SAVE	7	ON-SITE
ST-11130	DEAD STUMP	N/A	36	P		SAVE	7	ON-SITE
ST-11896	RED MAPLE	ACER RUBRUM	48	G	VINES	REMOVE	7	ON-SITE
ST-12773	RED MAPLE	ACER RUBRUM	37	P	DEAD BRANCHES	REMOVE	8	ON-SITE
ST-12777	NORTHERN RED OAK	QUERCUS RUBRA	30	F	LEANING, DEAD BRANCHES	SAVE	8	ON-SITE
ST-13172	SWEETGUM	LIQUIDAMBAR STYRACIFLUA	34	P	HEAVY VINES IN CROWN	SAVE	8	ON-SITE
ST-13315	TULIP POPLAR	LIRIODENDRON TULIPIFERA	31	P	BASAL DAMAGE, HOLE	REMOVE	8	ON-SITE
ST-13328	TULIP POPLAR	LIRIODENDRON TULIPIFERA	36	F	LEANING	SAVE	8	ON-SITE
ST-13332	BLACK OAK	QUERCUS VELUTINA	35	G		SAVE	8	ON-SITE

Property Owners Awareness Certificate

I/We _____ HGS, LLC (the Resource Environmental Solutions) hereby acknowledge that we are aware of this Type 2 Tree Conservation Plan (TCP2) and that we understand the requirements as set forth in this TCP2.

Joseph Monheit 8/17/2023
Owner or Owners Representative Date

Property Owners Awareness Certificate

I/We *Murzen Wood Products* hereby acknowledge that we are aware of this Type 2 Tree Conservation Plan (TCP2) and that we understand the requirements as set forth in this TCP2.

Samuel P. Wood & Marlene Bryant 8/17/2023
Owner or Owners Representative Date

QUALIFIED PROFESSIONAL CERTIFICATION

This plan complies with the current requirements of Subtitle 25 and the Woodland and Wildlife Conservation Technical Manual.

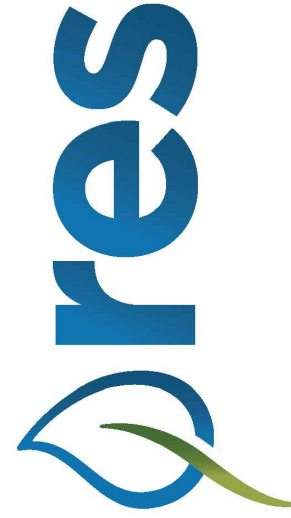
Signed: *Shura Collins* Date: 9/27/2023

(Place printed name, address, phone number, and e-mail address of qualified professional below the signature.)

PEA HILL BRANCH STREAM RESTORATION
CORVIAS PRINCE GEORGE'S COUNTY STORMWATER
PARTNER, LLC.

TCP 2 NOTES (2)

PRINCE GEORGE'S COUNTY, MD



HGS, LLC A RES COMPANY
1408 ROSENEATH ROAD, SUITE B, RICHMOND, VIRGINIA 23230
WWW.RES.US

STAMP/SEAL:

30% DESIGN REVIEW

Signature Date

PERMIT PLAN DESIGN REVIEW

09/01/23

Signature Date

CONSTRUCTION PLAN REVIEW

x Signature Date

REVISIONS:

FIRST SUBMITTAL 08-11-23

SECOND SUBMITTAL 09-27-23

PROJECT MANAGER: JM

DESIGNED: LS

DRAWN: LS

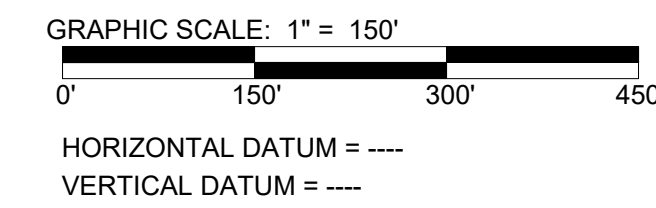
JOB NUMBER: 101566

DESIGN TYPE: TYPE 2 TCP

DATE: 9/27/2023

SHEET NO:

3 OF 9



The diagram illustrates a road cross-section with the following features and labels:

- EX. PROPERTY LINE**: Indicated by a dashed line at the top of the road.
- EX. PROPERTY ADJACENT**: Indicated by a dashed line below the property line.
- EX. EDGE OF PAVEMENT**: Indicated by a dashed line at the edge of the paved area.
- EX. MAJOR CONTOUR**: Indicated by a dashed line representing a major contour.
- EX. MINOR CONTOUR**: Indicated by a dashed line representing a minor contour.
- EX. TREELINE**: Indicated by a dashed line representing the treeline.
- EX. LIMITS OF SURVEY**: Indicated by a dashed line representing the limits of survey.
- EX. TOP OF BANK**: Indicated by a dashed line representing the top of the bank.
- EX. STREAM CENTERLINE**: Indicated by a dashed line representing the stream centerline.
- EX. EMERGENT WETLAND**: Indicated by a dashed line representing the emergent wetland.
- EX. FORESTED WETLAND**: Indicated by a dashed line representing the forested wetland.
- PR. LIMITS OF DISTURBANCE**: Indicated by a dashed line representing the private limits of disturbance.
- LOS**: Indicated by a dashed line representing the line of sight.
- T.O.B.**: Indicated by a dashed line representing the top of bank.
- LOD**: Indicated by a dashed line representing the line of disturbance.

HGS, LLC, A RES COMPANY
1408 ROSENEATH ROAD, SUITE B, RICHMOND VIRGINIA 23230
P: 804.353.6017
WWW.RES.US

PRINCE GEORGE'S COUNTY, MD

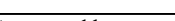
PROJECT MANAGER:	JM
DESIGNED:	LS
DRAWN:	LS
JOB NUMBER:	101566
DESIGN TYPE:	TYPE 2 TCR
DATE:	9/27/2023
SHEET NO:	

4 OF 9

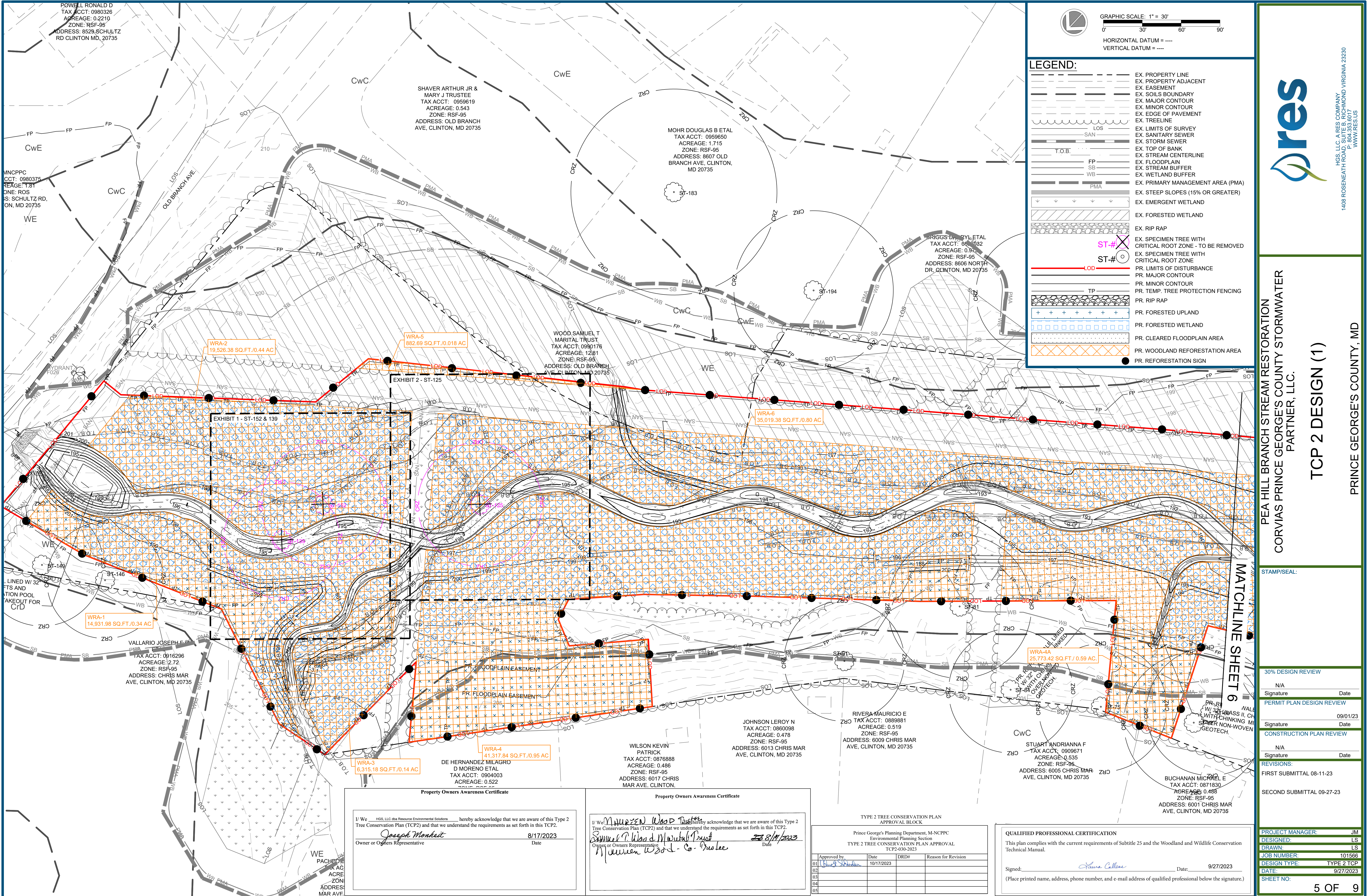
Property Owners Awareness Certificate

I, We MAUREEN WOOD Bristle hereby acknowledge that we are aware of this Type 2 Tree Conservation Plan (TCP2) and that we understand the requirements as set forth in this TCP2.

Maureen P. Wood & Maribel Bristle 23 8/17/2023
Owner or Owners Representative Date
Maureen Wood - Co- Preslee

APPROVAL BLOCK			
Prince George's Planning Department, M-NCPPC Environmental Planning Section TYPE 2 TREE CONSERVATION PLAN APPROVAL TCP2-030-2023			
	Approved by	Date	DRD#
01		10/17/2023	
02			
03			
04			
05			

Signed: Laura Collins Date: 9/27/2023
(Place printed name, address, phone number, and e-mail address of qualified professional below the signature.)



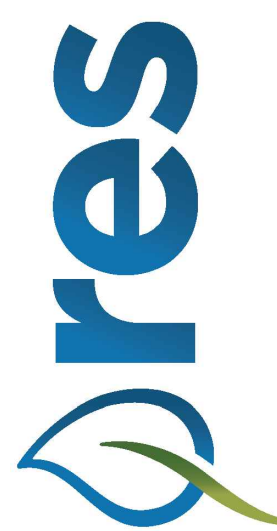
GRAPHIC SCALE: 1" = 30'

HORIZONTAL DATUM = ----

VERTICAL DATUM = ----

LEGEND:

- EX. PROPERTY LINE
- EX. PROPERTY ADJACENT
- EX. EASEMENT
- EX. SOILS BOUNDARY
- EX. MAJOR CONTOUR
- EX. MINOR CONTOUR
- EX. EDGE OF PAVEMENT
- EX. TREELINE
- LOS
- EX. LIMITS OF SURVEY
- EX. SANITARY SEWER
- EX. STORM SEWER
- EX. TOP OF BANK
- EX. STREAM CENTERLINE
- EX. FLOODPLAIN
- EX. STREAM BUFFER
- EX. WETLAND BUFFER
- EX. PRIMARY MANAGEMENT AREA (PMA)
- EX. STEEP SLOPES (15% OR GREATER)
- EX. EMERGENT WETLAND
- EX. FORESTED WETLAND
- EX. RIP RAP
- EX. SPECIMEN TREE WITH CRITICAL ROOT ZONE - TO BE REMOVED
- EX. SPECIMEN TREE WITH CRITICAL ROOT ZONE
- PR. LIMITS OF DISTURBANCE
- PR. MAJOR CONTOUR
- PR. MINOR CONTOUR
- PR. TEMP. TREE PROTECTION FENCING
- PR. RIP RAP
- PR. FORESTED UPLAND
- PR. FORESTED WETLAND
- PR. CLEARED FLOODPLAIN AREA
- PR. WOODLAND REFORESTATION AREA
- PR. REFORESTATION SIGN



HGS, LLC A RES COMPANY
1408 ROSENEATH ROAD, SUITE B, RICHMOND VIRGINIA 23230
WWW.RES.US

PEA HILL BRANCH STREAM RESTORATION
CORVIAS PRINCE GEORGE'S COUNTY STORMWATER
PARTNER, LLC.

TCP 2 DESIGN (1)

PRINCE GEORGE'S COUNTY, MD

STAMP/SEAL:

30% DESIGN REVIEW

N/A

Signature Date

PERMIT PLAN DESIGN REVIEW

Signature Date 09/01/23

CONSTRUCTION PLAN REVIEW

N/A

Signature Date

REVISIONS:

FIRST SUBMITTAL 08-11-23

SECOND SUBMITTAL 09-27-23

PROJECT MANAGER: JM

DESIGNED: LS

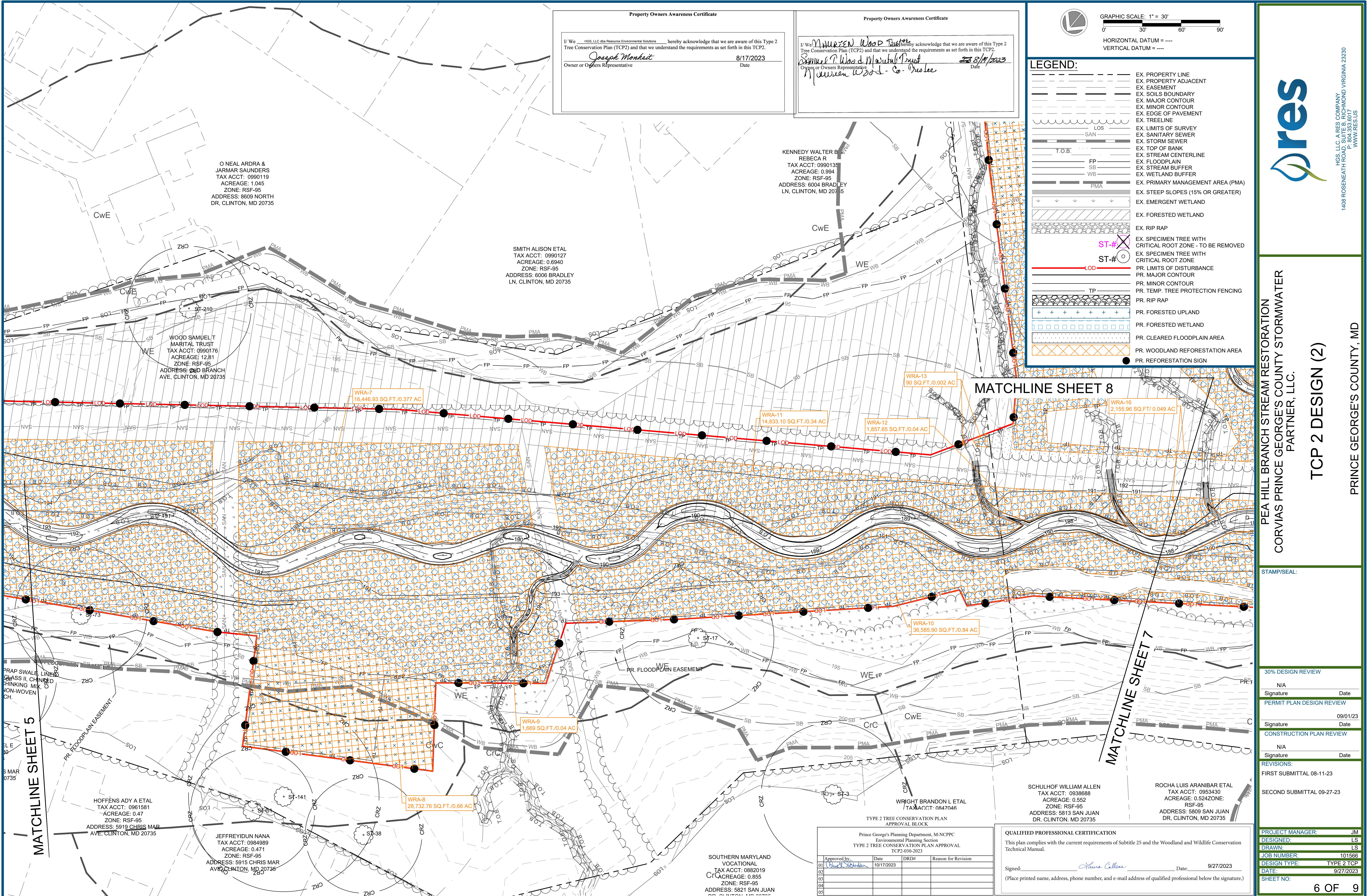
DRAWN: LS

JOB NUMBER: 101566

DESIGN TYPE: TYPE 2 TCP

DATE: 9/27/2023

SHEET NO: 5 OF 9



Property Owners Awareness Certificate

I/ We HGS, LLC dba Resource Environmental Solutions hereby acknowledge that we are aware of this Type 2 Tree Conservation Plan (TCP2) and that we understand the requirements as set forth in this TCP2.

Joseph Monheit 8/17/2023
Owner or Owners Representative Date

Property Owners Awareness Certificate

I/ We MURZEN Wood Trust hereby acknowledge that we are aware of this Type 2 Tree Conservation Plan (TCP2) and that we understand the requirements as set forth in this TCP2.

Samuel P Wood Marital Trust 8/17/2023
Owner or Owners Representative Date

GRAPHIC SCALE: 1" = 30'

HORIZONTAL DATUM = ----
VERTICAL DATUM = ----

LEGEND:

- EX. PROPERTY LINE
- EX. PROPERTY ADJACENT
- EX. EASEMENT
- EX. SOILS BOUNDARY
- EX. MAJOR CONTOUR
- EX. MINOR CONTOUR
- EX. EDGE OF PAVEMENT
- EX. TREELINE
- EX. LIMITS OF SURVEY
- EX. SANITARY SEWER
- EX. STORM SEWER
- EX. TOP OF BANK
- EX. STREAM CENTERLINE
- EX. FLOODPLAIN
- EX. STREAM BUFFER
- EX. WETLAND BUFFER
- EX. PRIMARY MANAGEMENT AREA (PMA)
- EX. STEEP SLOPES (15% OR GREATER)
- EX. EMERGENT WETLAND
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- EX. SPECIMEN TREE WITH CRITICAL ROOT ZONE
- PR. LIMITS OF DISTURBANCE
- PR. MAJOR CONTOUR
- PR. MINOR CONTOUR
- PR. TEMP. TREE PROTECTION FENCING
- PR. RIP RAP
- PR. FORESTED UPLAND
- PR. FORESTED WETLAND
- PR. CLEARED FLOODPLAIN AREA
- PR. WOODLAND REFORESTATION AREA
- PR. REFORESTATION SIGN

dres

HGS, LLC A RES COMPANY
1408 ROSENEATH ROAD, SUITE B, RICHMOND VIRGINIA 23230
WWW.RES.US

PEA HILL BRANCH STREAM RESTORATION
CORVIAS PRINCE GEORGE'S COUNTY STORMWATER PARTNER, LLC.

TCP 2 DESIGN (2)

PRINCE GEORGE'S COUNTY, MD

STAMP/SEAL:

30% DESIGN REVIEW

N/A
Signature Date

PERMIT PLAN DESIGN REVIEW

Signature Date 09/01/23

CONSTRUCTION PLAN REVIEW

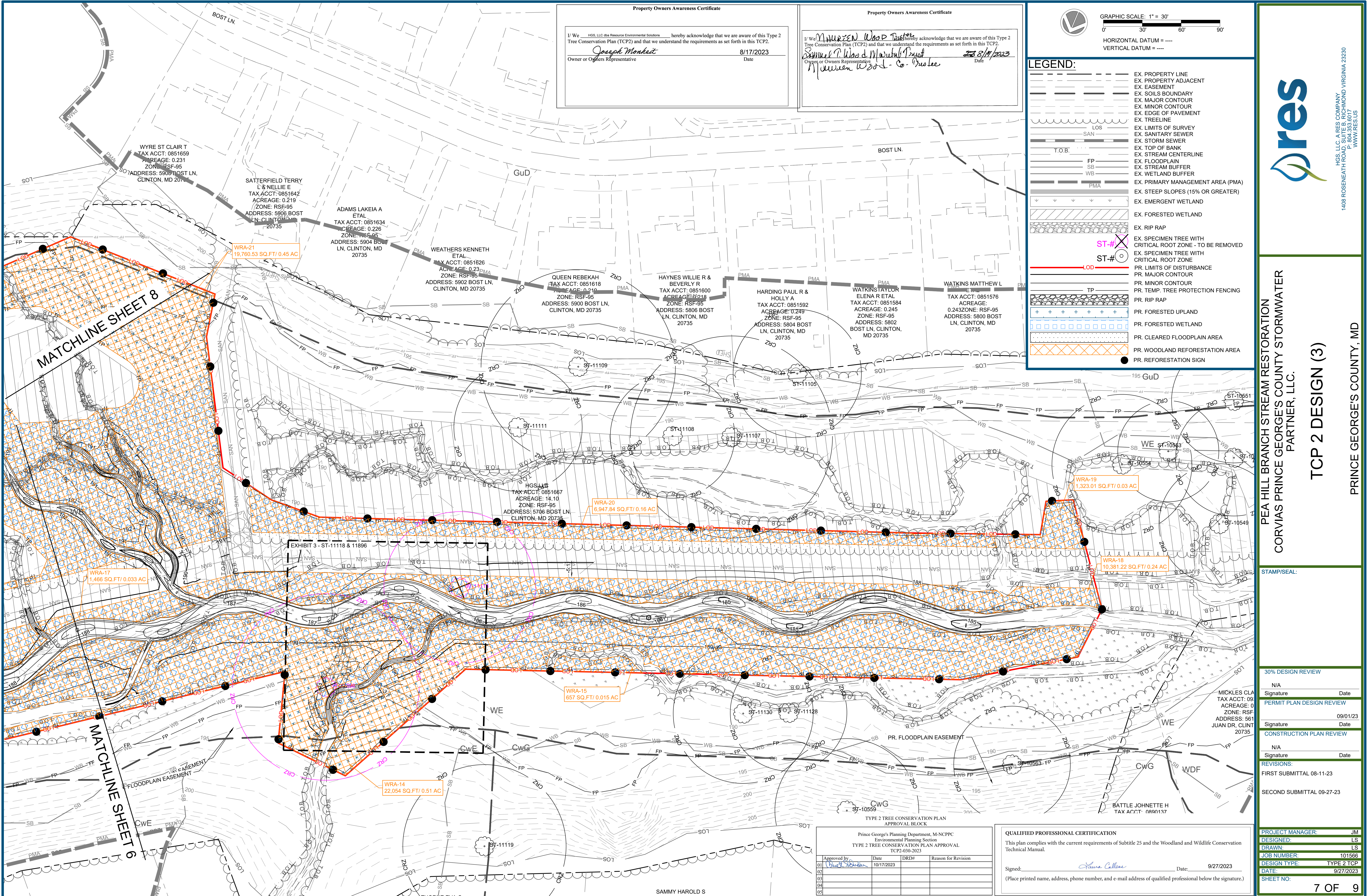
N/A
Signature Date

REVISIONS:

FIRST SUBMITTAL 08-11-23

SECOND SUBMITTAL 09-27-23

PROJECT MANAGER: JM
DESIGNED: LS
DRAWN: LS
JOB NUMBER: 101566
DESIGN TYPE: TYPE 2 TCP
DATE: 9/27/2023
SHEET NO: 6 OF 9



Property Owners Awareness Certificate

I, We _____ HGS, LLC dba Resource Environmental Solutions hereby acknowledge that we are aware of this Type 2 Tree Conservation Plan (TCP2) and that we understand the requirements as set forth in this TCP2.

Joseph Monheit
Owner or Owners Representative

8/17/2023
Date

Property Owners Awareness Certificate

I, We *MURREN WOOD Trust* hereby acknowledge that we are aware of this Type 2 Tree Conservation Plan (TCP2) and that we understand the requirements as set forth in this TCP2.

Samuel P. Wood & Muriel Trust
Owner or Owners Representative

8/17/2023
Date

GRAPHIC SCALE: 1" = 30'

HORIZONTAL DATUM = ----
VERTICAL DATUM = ----

LEGEND:

- EX. PROPERTY LINE
- EX. PROPERTY ADJACENT
- EX. EASEMENT
- EX. SOILS BOUNDARY
- EX. MAJOR CONTOUR
- EX. MINOR CONTOUR
- EX. EDGE OF PAVEMENT
- EX. TREELINE
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- EX. SPECIMEN TREE WITH CRITICAL ROOT ZONE
- PR. LIMITS OF DISTURBANCE
- PR. MAJOR CONTOUR
- PR. MINOR CONTOUR
- PR. TEMP. TREE PROTECTION FENCING
- PR. RIP RAP
- PR. FORESTED UPLAND
- PR. FORESTED WETLAND
- PR. CLEARED FLOODPLAIN AREA
- PR. WOODLAND REFORESTATION AREA
- PR. REFORESTATION SIGN

res

HGS, LLC A RES COMPANY
1408 ROSENEATH ROAD, SUITE B, RICHMOND VIRGINIA 23230
WWW.RES.US

PEA HILL BRANCH STREAM RESTORATION
CORVIAS PRINCE GEORGE'S COUNTY STORMWATER PARTNER, LLC.

TCP 2 DESIGN (3)

PRINCE GEORGE'S COUNTY, MD

STAMP/SEAL:

30% DESIGN REVIEW

N/A
Signature _____ Date _____

PERMIT PLAN DESIGN REVIEW

Signature _____ Date 09/01/23

CONSTRUCTION PLAN REVIEW

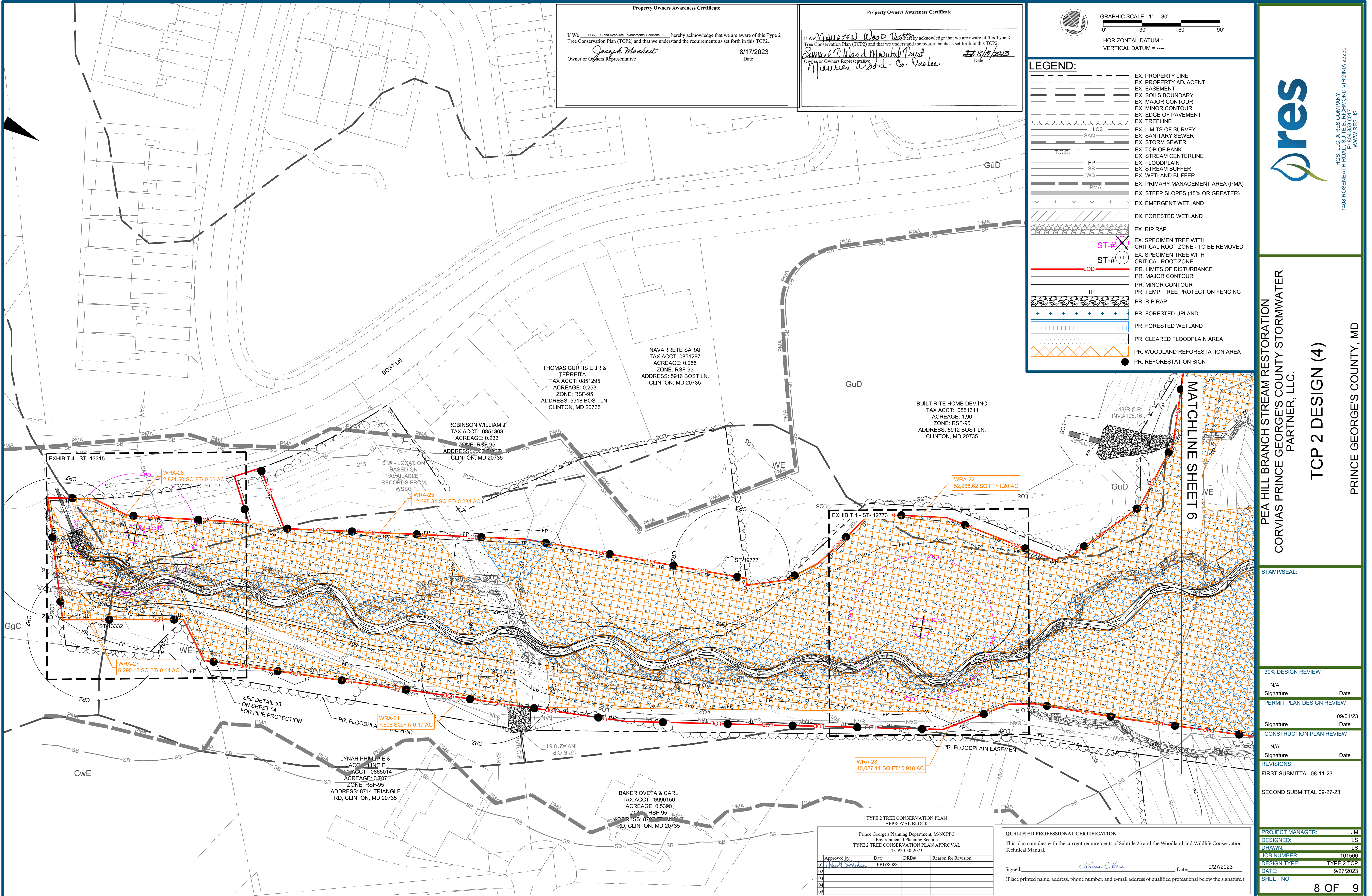
N/A
Signature _____ Date _____

REVISIONS:

FIRST SUBMITTAL 08-11-23

SECOND SUBMITTAL 09-27-23

PROJECT MANAGER: JM
DESIGNED: LS
DRAWN: LS
JOB NUMBER: 101566
DESIGN TYPE: TYPE 2 TCP
DATE: 9/27/2023
SHEET NO: 7 OF 9



Property Owners Awareness Certificate

I/ We _____ HGS, LLC dba Resource Environmental Solutions hereby acknowledge that we are aware of this Type 2 Tree Conservation Plan (TCP2) and that we understand the requirements as set forth in this TCP2.

Joseph Monheit
Owner or Owners Representative

8/17/2023
Date

Property Owners Awareness Certificate

I/ We *Maurice Wood Trust* hereby acknowledge that we are aware of this Type 2 Tree Conservation Plan (TCP2) and that we understand the requirements as set forth in this TCP2.

Samuel P. Wood & Maurice Wood Trust
Owner or Owners Representative

8/17/2023
Date

GRAPHIC SCALE: 1" = 30'

HORIZONTAL DATUM = ----
VERTICAL DATUM = ----

LEGEND:

- EX. PROPERTY LINE
- EX. PROPERTY ADJACENT
- EX. EASEMENT
- EX. SOILS BOUNDARY
- EX. MAJOR CONTOUR
- EX. MINOR CONTOUR
- EX. EDGE OF PAVEMENT
- EX. TREELINE
- EX. LIMITS OF SURVEY
- EX. SANITARY SEWER
- EX. STORM SEWER
- EX. TOP OF BANK
- EX. STREAM CENTERLINE
- EX. FLOODPLAIN
- EX. STREAM BUFFER
- EX. WETLAND BUFFER
- EX. PRIMARY MANAGEMENT AREA (PMA)
- EX. STEEP SLOPES (15% OR GREATER)
- EX. EMERGENT WETLAND
- EX. FORESTED WETLAND
- EX. RIP RAP
- EX. SPECIMEN TREE WITH CRITICAL ROOT ZONE - TO BE REMOVED
- EX. SPECIMEN TREE WITH CRITICAL ROOT ZONE
- PR. LIMITS OF DISTURBANCE
- PR. MAJOR CONTOUR
- PR. MINOR CONTOUR
- PR. TEMP. TREE PROTECTION FENCING
- PR. RIP RAP
- PR. FORESTED UPLAND
- PR. FORESTED WETLAND
- PR. CLEARED FLOODPLAIN AREA
- PR. WOODLAND REFORESTATION AREA
- PR. REFORESTATION SIGN

res

HGS, LLC A RES COMPANY
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WWW.RES.US

PEA HILL BRANCH STREAM RESTORATION
CORVIAS PRINCE GEORGE'S COUNTY STORMWATER
PARTNER, LLC.

TCP 2 DESIGN (4)

PRINCE GEORGE'S COUNTY, MD

STAMP/SEAL:

30% DESIGN REVIEW

N/A
Signature _____ Date _____

PERMIT PLAN DESIGN REVIEW

Signature _____ Date 09/01/23

CONSTRUCTION PLAN REVIEW

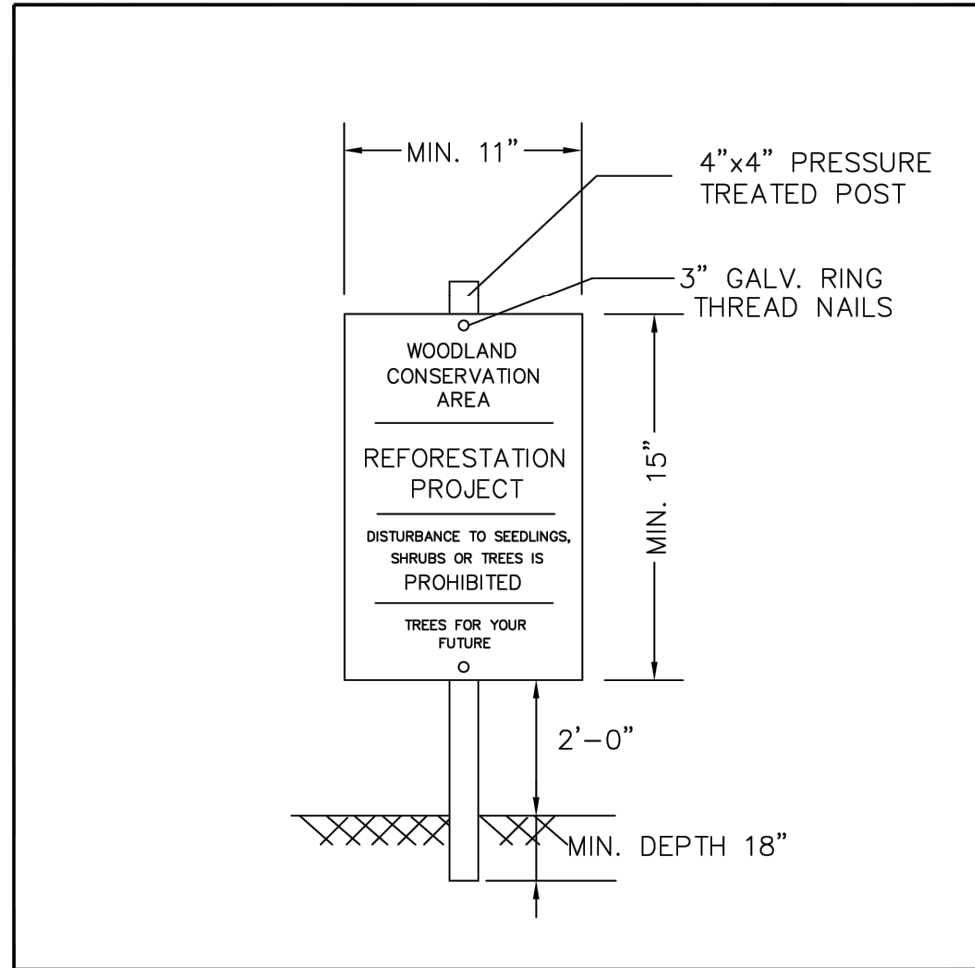
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Signature _____ Date _____

REVISIONS:

FIRST SUBMITTAL 08-11-23

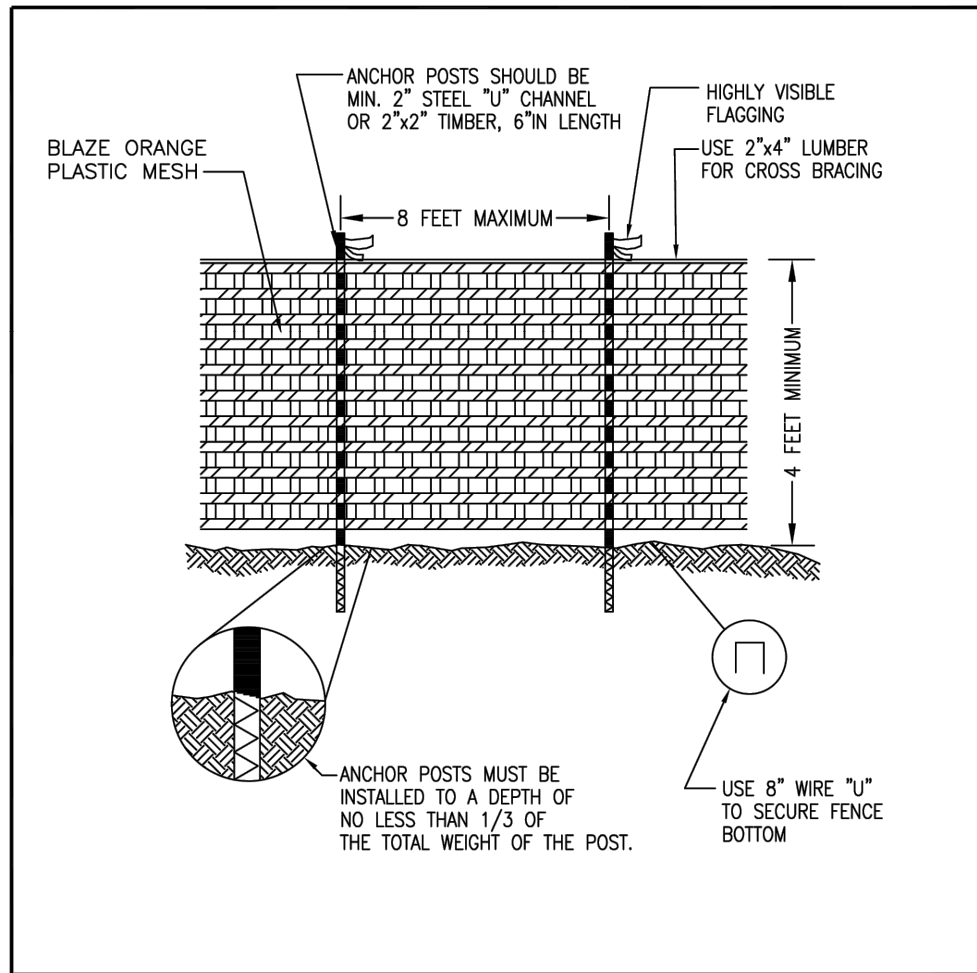
SECOND SUBMITTAL 09-27-23

PROJECT MANAGER: JM
DESIGNED: LS
DRAWN: LS
JOB NUMBER: 101566
DESIGN TYPE: TYPE 2 TCP
DATE: 9/27/2023
SHEET NO: 8 OF 9



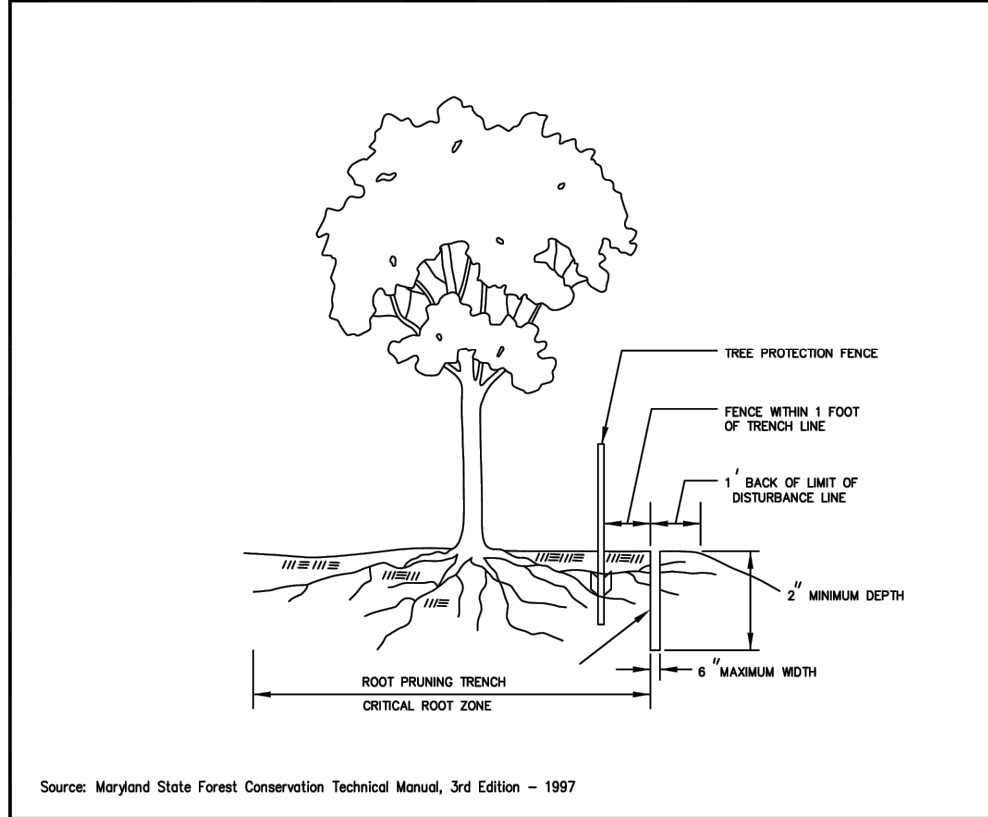
- NOTES:
1. ATTACHMENT OF SIGNS TO TREES IS PROHIBITED.
 2. SIGNS SHOULD BE PROPERLY MAINTAINED.
 3. AVOID INJURY TO ROOTS WHEN PLACING POSTS FOR THE SIGNS.
 4. SIGNS SHOULD BE POSTED TO BE VISIBLE TO ALL CONSTRUCTION PERSONNEL FROM ALL DIRECTIONS.
 5. SIGNS SHOULD BE INSTALLED AT SAME TIME AS TREE PROTECTION DEVICE.
 6. LOCATE SIGNS APPROXIMATELY EVERY 50 FEET ALONG FENCING.
 7. SIGNS SHOULD BE IN PLACE IMMEDIATELY FOLLOWING STAKE OUT OF L.O.D., AND REMAIN IN PLACE IN PERPETUITY.

REFORESTATION AREA SIGN



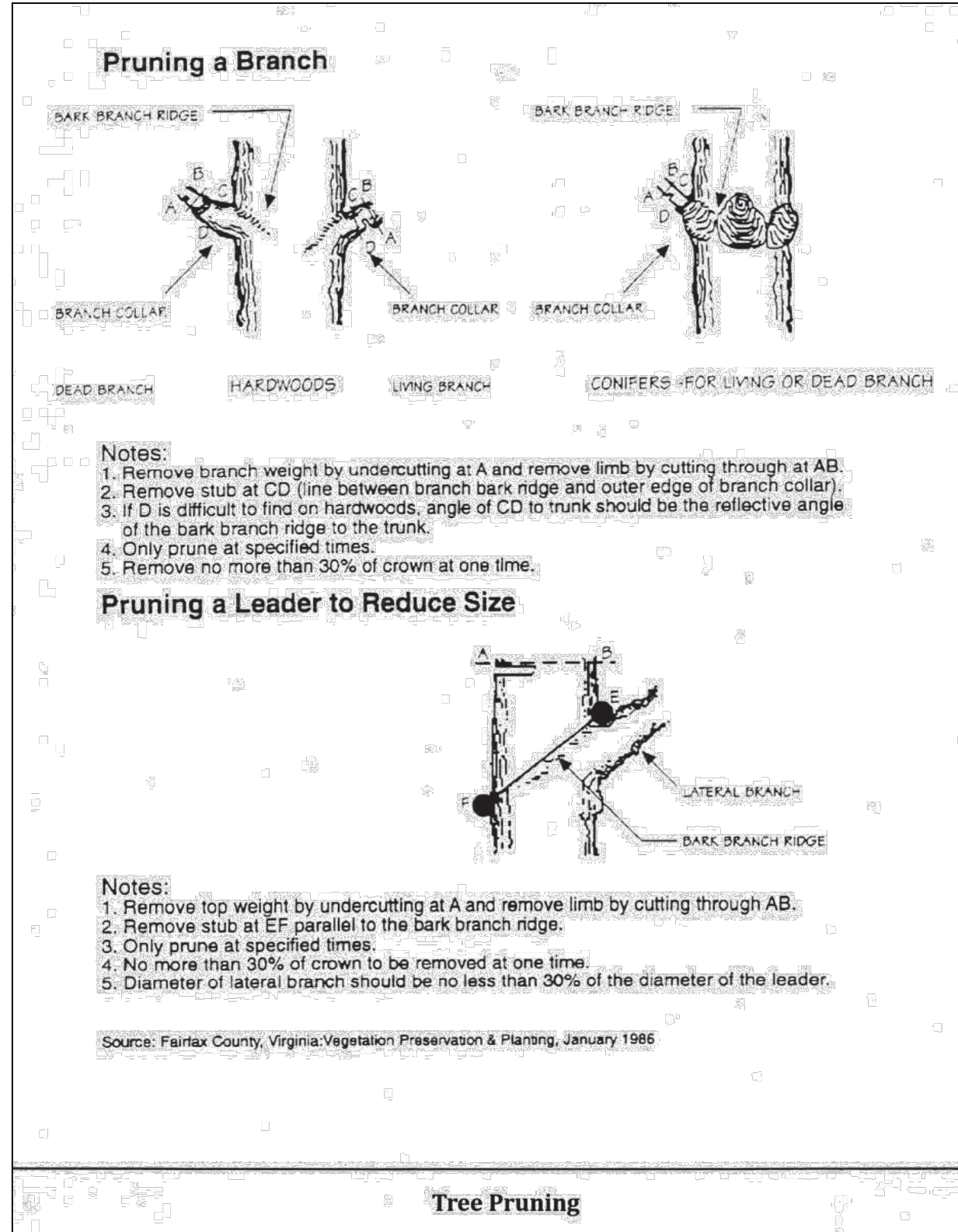
- NOTES: (MUST BE INCLUDED WITH DETAIL)
1. FOREST PROTECTION DEVICE ONLY.
 2. RETENTION AREA WILL BE SET AS PART OF THE REVIEW PROCESS.
 3. BOUNDARIES OF RETENTION AREA SHOULD BE STAKED AND FLAGGED PRIOR TO INSTALLING DEVICES.
 4. AVOID ROOT DAMAGE WHEN PLACING ANCHOR POSTS.
 5. DEVICE SHOULD BE PROPERLY MAINTAINED DURING CONSTRUCTION
 6. PROTECTIVE SIGNAGE IS ALSO REQUIRED.

TYPE 1 (TEMPORARY) TREE PROTECTION FENCE DETAIL FOR WOODLAND PRESERVATION AREAS



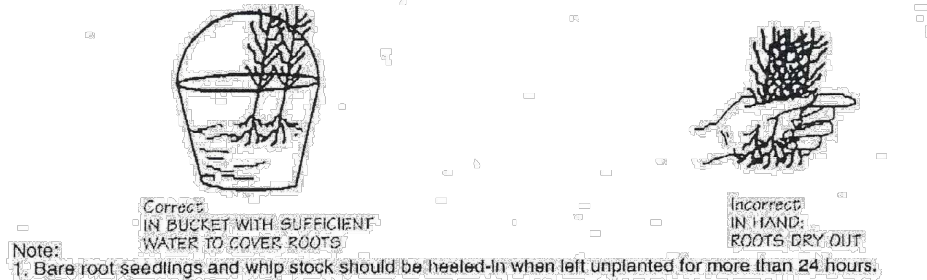
- NOTES:
1. RETENTION AREAS TO BE ESTABLISHED AS PART OF THE FOREST CONSERVATION PLAN REVIEW PROCESS.
 2. BOUNDARIES OF RETENTION AREAS SHOULD BE STAKED, FLAGGED AND/OR FENCED PRIOR TO TRENCHING.
 3. EXACT LOCATION OF TRENCH SHOULD BE IDENTIFIED.
 4. TRENCH SHOULD BE IMMEDIATELY BACKFILLED WITH SOIL REMOVED OR OTHER HIGH ORGANIC SOIL.
 5. ROOTS SHOULD BE CLEANLY CUT USING VIBRATORY KNIFE OR OTHER ACCEPTABLE EQUIPMENT.

ROOT PRUNING

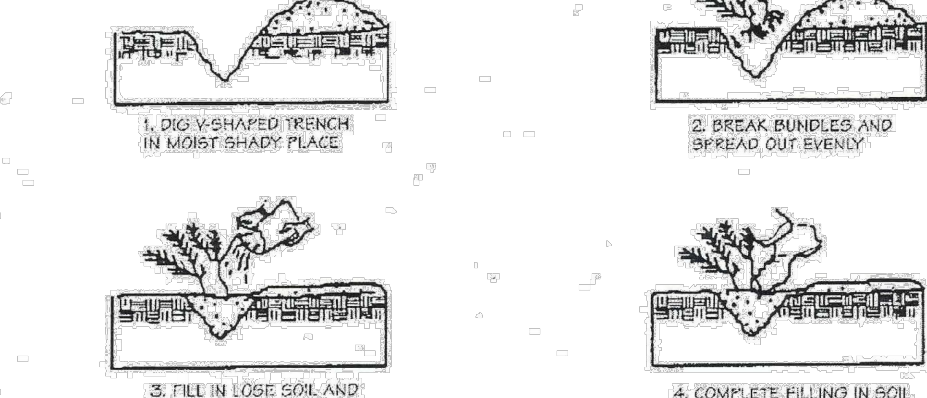


Tree Pruning

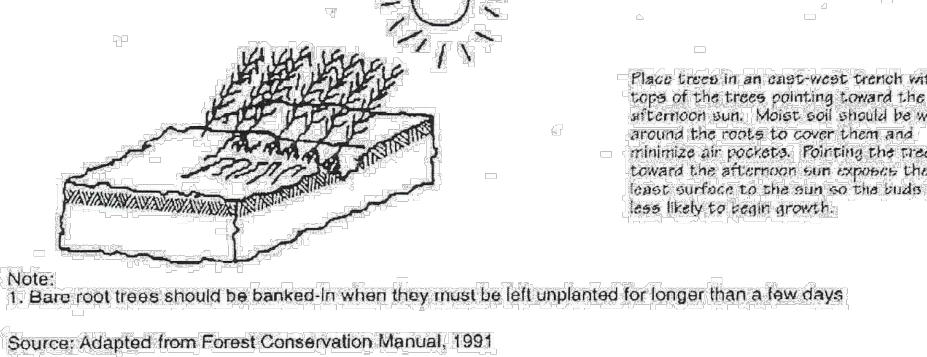
Handling Seedlings in the Field



Seedlings and Whips

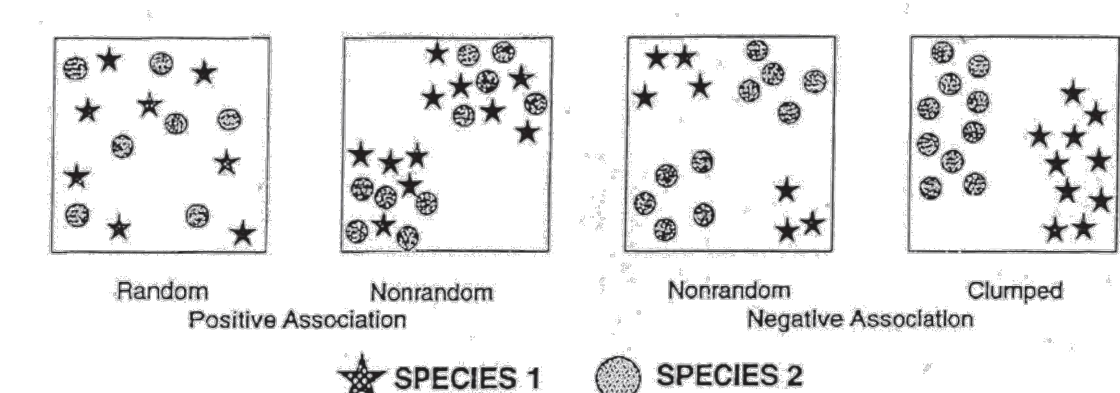


Bare Root Trees



Handling Bare Root Stock

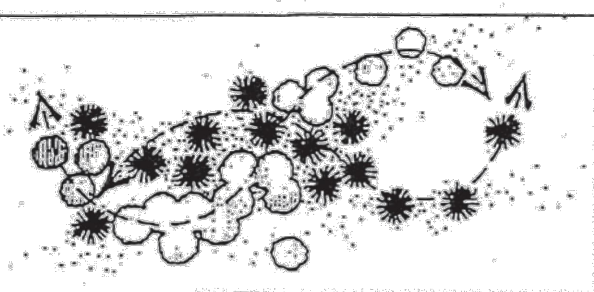
Typical Forest Tree Distribution Patterns



Note: Naturally occurring populations of trees tend to be found in informal groupings. A cluster of trees is really a mosaic of different species groups. The objective of an afforestation/reforestation plan is to select the appropriate species and distribution pattern for a chosen site that mimic natural patterns.

Source: Prince Georges County Woodland Conservation Manual.

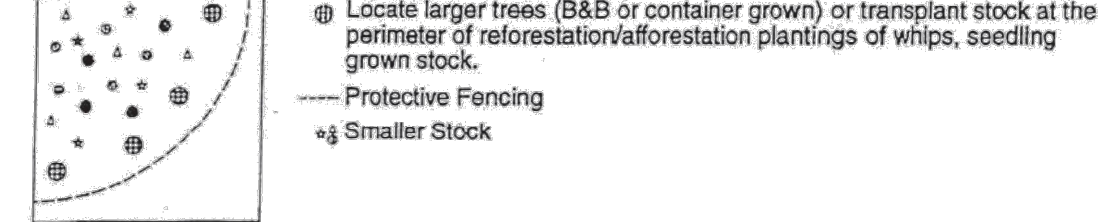
Aggregate Distribution Drift



Note: When used, plant cluster type groupings that taper or feather out along the edges. Clusters often appear as elongated or tear drop shapes.

Source: ECR, Inc.

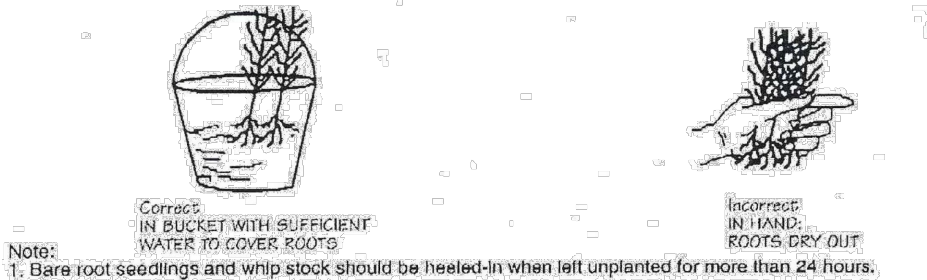
Mixing Transplant Stock



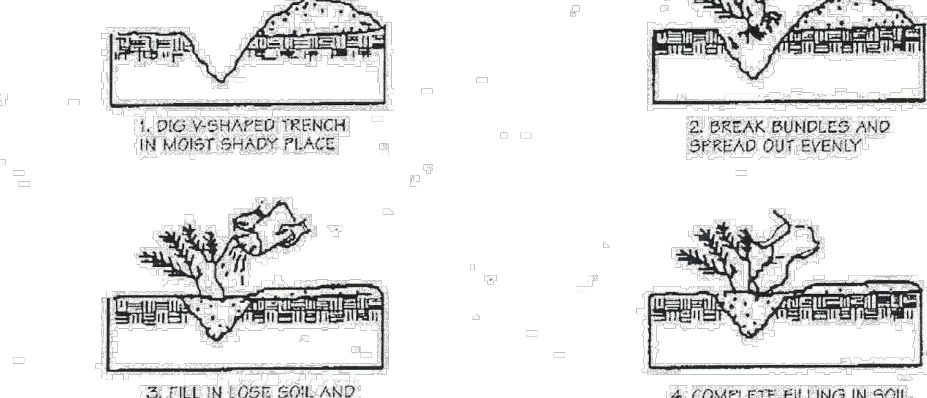
Source: Adapted from Forest Conservation Manual, 1991

Planting Distribution Patterns

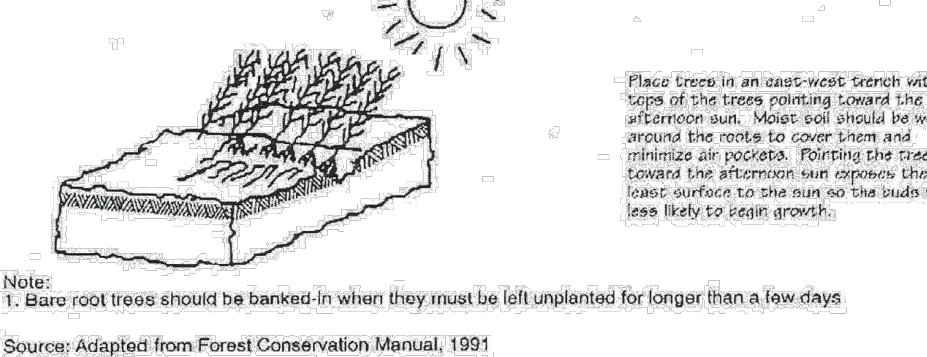
Handling Seedlings in the Field



Seedlings and Whips

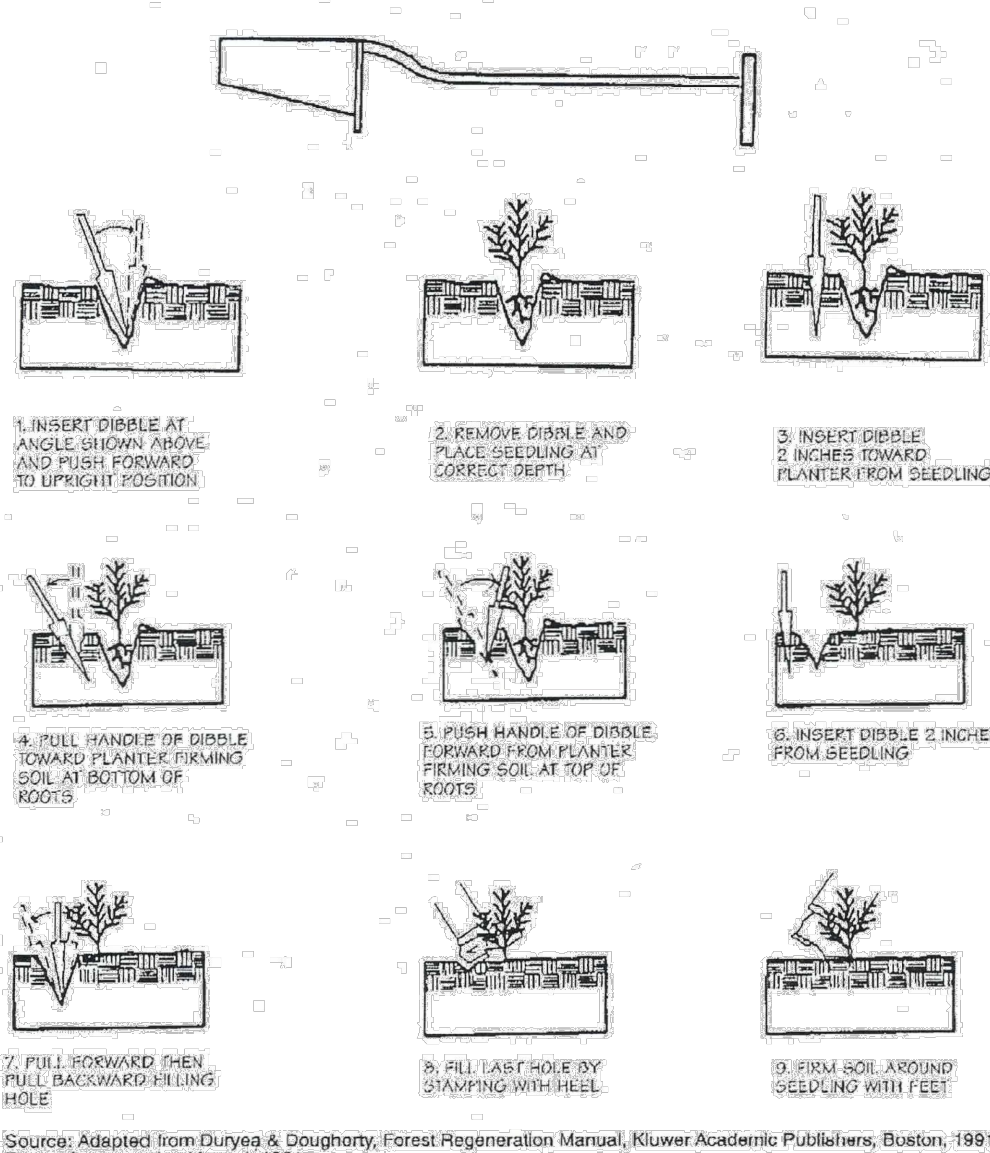


Bare Root Trees



Handling Bare Root Stock

Planting With Dibble Bar



Seedling Planting Techniques

Property Owners Awareness Certificate

I/We HGS, LLC dba Resource Environmental Solutions hereby acknowledge that we are aware of this Type 2 Tree Conservation Plan (TCP2) and that we understand the requirements as set forth in this TCP2.

Owner or Owners Representative

8/17/2023
Date

Property Owners Awareness Certificate

I/We MURZEN Wood Products hereby acknowledge that we are aware of this Type 2 Tree Conservation Plan (TCP2) and that we understand the requirements as set forth in this TCP2.

Owner or Owners Representative

23 8/16/2023
Date

TYPE 2 TREE CONSERVATION PLAN APPROVAL BLOCK

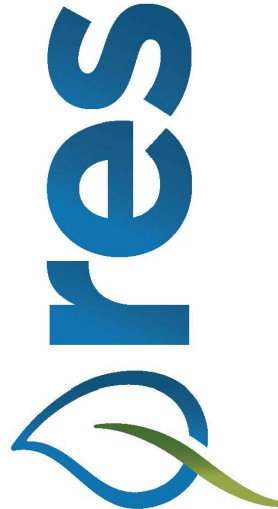
Prince George's Planning Department, M-NCPPC Environmental Planning Section
TYPE 2 TREE CONSERVATION PLAN APPROVAL
TCP2-030-2023

Approved by	Date	DRD#	Reason for Revision
01 <u>[Signature]</u>	10/17/2023		
02			
03			
04			
05			

QUALIFIED PROFESSIONAL CERTIFICATION

This plan complies with the current requirements of Subtitle 25 and the Woodland and Wildlife Conservation Technical Manual.

Signed: [Signature] Date: 9/27/2023
(Place printed name, address, phone number, and e-mail address of qualified professional below the signature.)



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PEA HILL BRANCH STREAM RESTORATION
CORVIAS PRINCE GEORGE'S COUNTY STORMWATER
PARTNER, LLC.

TCP 2 DETAILS

PRINCE GEORGE'S COUNTY, MD

STAMP/SEAL:

30% DESIGN REVIEW

N/A
Signature Date

PERMIT PLAN DESIGN REVIEW

Signature Date 09/01/23

CONSTRUCTION PLAN REVIEW

x
Signature Date

REVISIONS:

FIRST SUBMITTAL 08-11-23

SECOND SUBMITTAL 09-27-23

PROJECT MANAGER: JM
DESIGNED: LS
DRAWN: LS
JOB NUMBER: 101566
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