

#### GENERAL NOTES

- 1. THIS PLAN IS SUBMITTED TO FULFILL THE WOODLAND CONSERVATION REQUIREMENTS FOR PLAN TCP2-007-2019.
- 2. CUTTING OF CLEARING OF WOODLAND NOT IN DIRECT 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.
- 3. A PRE-CONSTRUCTION MEETING IS REQUIRED PRIOR TO THE ISSUANCE OF GRADING PERMITS. THE DEPARTMENT OF PUBLIC WORKS, AND TRANSPORTATION OR THE DEPARTMENT OF THE ENVIRONMENT. 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.
- 4. PRIOR TO THE COMMENCEMENT OF CLEARING, ORANGE CONSTRUCTION FENCE SHALL BE MANUALLY INSTALLED ALONG THE LIMITS OF DISTURBANCE AND TREE PROTECTION PLANKING SHALL BE INSTALLED AS DESIGNATED ON THE PLAN. ROOT PRUNING WILL TAKE PLACE AS DISCUSSED DURING THE PRE-CONSTRUCTION MEETING.
- 5. THE OWNERS OF THE PROPERTY SUBJECT TO THIS TREE CONSERVATION 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.
- 6. THE OWNERS OF THE PROPERTY SUBJECT TO THIS TREE CONSERVATION PLAN ARE SOLELY RESPONSIBLE FOR CONFORMANCE TO THE REQUIREMENTS CONTAINED HEREIN.
- 7. THIS PROPERTY IS WITHIN THE DEVELOPED TIER AND IS ZONED "INDUSTRIAL" (I-4) AND "RESIDENTIAL" (R-80).
- 8. THE SITE IS ADJACENT TO SUITLAND PARKWAY IS DESIGNATED AS AN HISTORIC ROADWAY ON THE NATIONAL REGISTER OF HISTORIC PLACES AND THE MARYLAND INVENTORY OF HISTORIC PROPERTIES. THE PROJECT WILL NOT CROSS ONTO THE PROPERTY DESIGNATED AS SUITLAND PARKWAY AND WILL NOT IMPACT THE ROADWAY.
- 9. THIS PROPERTY IS ADJACENT TO SUITLAND PARKWAY WHICH IS CLASSIFIED AS A FREEWAY (ROAD TYPE F) ROADWAY. THE PROJECT WILL NOT CROSS ONTO THE PROPERTY DESIGNATED AS SUITLAND PARKWAY AND WILL NOT IMPACT THE ROADWAY
- 10. THIS PLAN IS NOT GRANDFATHERED UNDER CB-27-2010, SECTION 25-117 (G).
- 11. ALL REQUIRED FEE-IN-LIEU PAYMENTS SHALL BE MADE TO THE WOODLAND CONSERVATION FUND. PROOF OF DEPOSIT SHALL BE PROVIDED PRIOR TO ISSUANCE OF ANY PERMITS RELATED TO THIS TCP2 UNLESS THE PROJECT IS PHASED. PHASED PROJECTS SHALL PAY THE FEE-IN-LIEU AMOUNT FOR EACH PHASE PRIOR TO THE ISSUANCE OF ANY PERMIT FOR THAT PHASE AND SHOWN IN THE FEE-IN-LIEU BREAKDOWN ON THIS TCP2.
- 12. INVASIVE PLANT REMOVAL SHALL BE COMPLETED PRIOR TO THE START OF CONSTRUCTION AND CONFORM TO THE RECOMMENDATIONS OF THE LANDSCAPE PLAN PREPARED BY CENTURY ENGINEERING INC. DATED 12/18/2018.
- 13. 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.
- 14. 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 THE 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.

#### **POST-DEVELOPMENT NOTES:**

15. IF THE DEVELOPER OR BUILDER NO LONGER HAS AN INTEREST IN THE PROPERTY AND THE NEW OWNER DESIRES TO REMOVE A HAZARDOUS TREE OR PORTION THEREOF, THE NEW OWNER SHALL OBTAIN A WRITTEN STATEMENT FROM A CERTIFIED ARBORIST OR LICENSED TREE EXPERT IDENTIFYING THE HAZARDOUS CONDITION AND THE PROPOSED CORRECTIVE MEASURES PRIOR TO HAVING THE WORK CONDUCTED. AFTER PROPER DOCUMENTATION HAS BEEN COMPLETED PER THE HANDOUT "GUIDANCE FOR PRINCE GEORGE'S COUNTY PROPERTY OWNERS, PRESERVATION OF WOODLAND CONSERVATION AREAS," THE ARBORIST OR TREE EXPERT MAY REMOVE THE TREE. THE STUMP SHALL BE CUT

## 1801 MCCORMICK DRIVE, SUITE 500 LARGO, MARYLAND 20744 **RESTORATION PROJECT** MORNINGSIDE, MARYLAND 20746

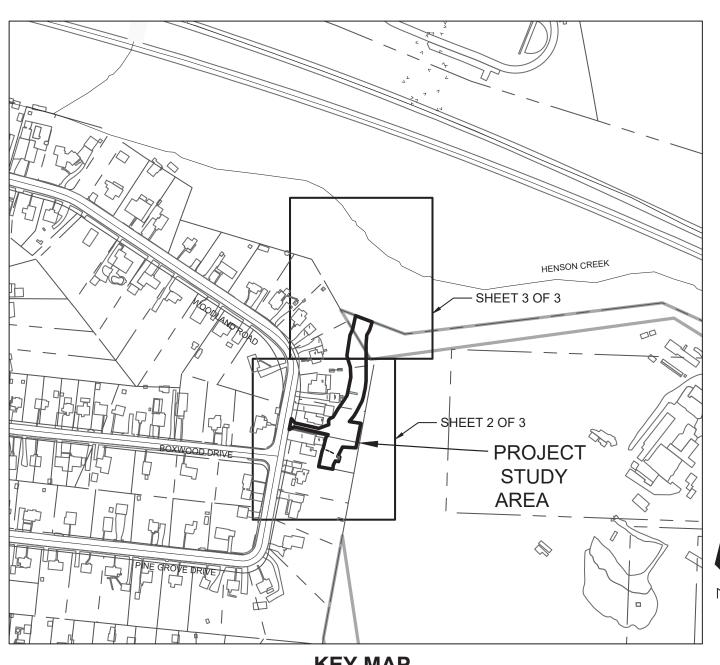
# PRINCE GEORGE'S COUNTY MARYLAND TRIBUTARY 3 TO HENSON CREEK STREAM

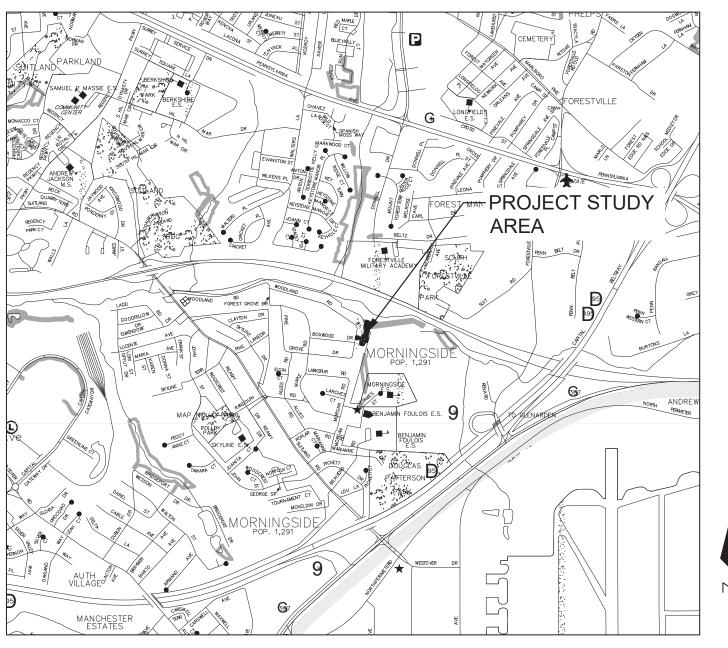
AS CLOSE TO THE GROUND AS POSSIBLE AND LEFT IN PLACE. THE REMOVAL OR GRINDING OF THE STUMPS IN THE WOODLAND CONSERVATION AREA IS NOT PERMITTED

IF A TREE OR PORTIONS THEREOF ARE IN IMMINENT DANGER OF STRIKING A STRUCTURE, PARKING AREA, OR OTHER HIGH USE AREA AND MAY RESULT IN PERSONAL INJURY OR PROPERTY DAMAGE THEN THE CERTIFICATION IS NOT REQUIRED AND THE PERMITEE SHALL TAKE CORRECTIVE ACTION IMMEDIATELY. THE CONDITION OF THE AREA SHALL BE FULLY DOCUMENTED THROUGH PHOTOGRAPHS PRIOR TO CORRECTIVE ACTION BEING TAKEN. THE PHOTOS SHALL BE SUBMITTED TO THE INSPECTOR FOR DOCUMENTATION OF THE DAMAGE.

TREE WORK TO BE COMPLETED WITHIN A ROAD RIGHT-OF-WAY REQUIRES A PERMIT FROM THE MARYLAND DEPARTMENT OF NATURAL RESOURCES UNLESS THE TREE REMOVAL IS WITHIN THE APPROVED LIMITS OF DISTURBANCE ON A TCP2. THE WORK IS REQUIRED TO BE CONDUCTED BY A LICENSED TREE EXPERT

- 16. THE REMOVAL OF NOXIOUS, INVASIVE, AND NON-NATIVE PLANT SPECIES FROM ANY WOODLAND PRESERVATION AREA SHALL BE DONE WITH THE USE OF HAND-HELD EQUIPMENT ONLY (PRUNERS OR A CHAIN SAW). THESE PLANTS MAY BE CUT NEAR THE GROUND AND MATERIAL LESS THAN TWO INCHES IN 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.
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- 18. THE USE OF CHAINSAWS IS EXTREMELY DANGEROUS AND SHOULD NOT BE CONDUCTED WITH POORLY MAINTAINED EQUIPMENT, WITHOUT SAFETY EQUIPMENT, OR BY INDIVIDUALS NOT TRAINED IN THE USE OF THIS EQUIPMENT FOR THE PRUNING AND/OR CUTTING OF TREES.





**KEY MAP** 1" = 300'

#### **TABLE 1: WOODLAND CONSERVATION SUMMARY TABLE**

							1			1	
										Woodland	Woodland
						Woodland	Woodland			Retained/	Retained/
	Gross	100-Year	Net Tract	Ex.	Ex.	Cleared	Cleared	Woodland	Woodland	Not	Assumed
	Tract	Flood	Area	Woodland	Woodland	Floodplain	Off-Site	Preserv.	Reforest.	Credited	Cleared
Sheet	Area	Plain (FP)	(NTA)	(NTA)	(FP)	(C-FP)	(C-OS)	Area (WPA)	Area (WRA)	(WR-NC)	(WR-AC)
1	0.49	0.11	0.38	0.21	0.01	0.01	-	-	-	-	-
2	0.14	0.02	0.12	0.08	0.17	0.17	-	-	-	-	-
Total	0.63	0.13	0.5	0.29	0.18	0.18	-	-	-	-	-

#### TABLE 2: SPECIMEN TREES (≥ 30" DBH)

SPECIMEN #	SPECIES	DBH (INCHES)	CONDITION	DISPOSITION	NOTES
SP-1	White oak (Quercus alba)	32.7	Good	To Remain	
SP-2	Tuliptree (Liriodendron tulipifera)	34.9	Good	To Remain	
SP-3	Tuliptree (Liriodendron tulipifera)	33.8	Good	To Remain	
SP-4	Tuliptree (Liriodendron tulipifera)	33.4	Fair	To Be Removed	
SP-5	Tuliptree (Liriodendron tulipifera)	31	Fair	To Remain	
SP-6	Tuliptree (Liriodendron tulipifera)	32	Fair	To Remain	
SP-7	Tuliptree (Liriodendron tulipifera)	32	Fair	To Remain	
SP-8	Tuliptree (Liriodendron tulipifera)	48.3	Fair	To Remain	
SP-9	Tuliptree (Liriodendron tulipifera)	36	Fair	To Remain	
SP-10*	Tuliptree (Liriodendron tulipifera)	30	Good	To Remain	Tree Protection Fencing to be Provided
SP-11*	Tuliptree (Liriodendron tulipifera)	30	Good	To Remain	
SP-12*	Red maple (Acer rubrum)	36	Good	To Remain	

Localed on privale property. DBH was estimated. \*\*All Specimen Trees are survey located

#### **TYPE 2 TREE CONSERVATION (TCP2) PLAN** APPROVAL BLOCK Prince George's County Planning Department, M-NCPPO **Environmental Planning Section** TYPE 2 TREE TCP2-007-2019 N APPROVAL TCP2 - XXX - XXXX Reason for Revision Date 2 Sounder 6/27/2019 N/A

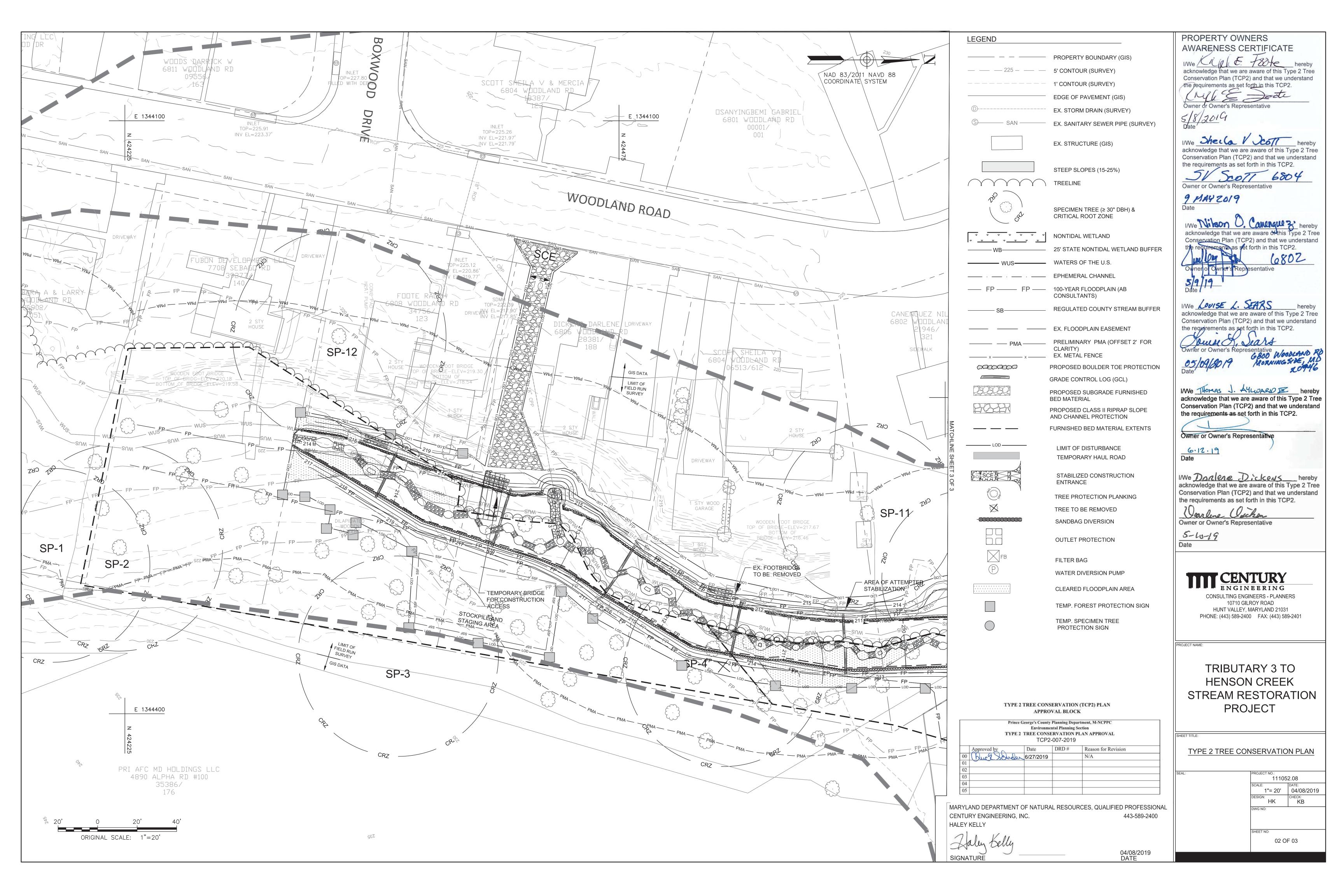
VICINITY MAP 1" = 2000'

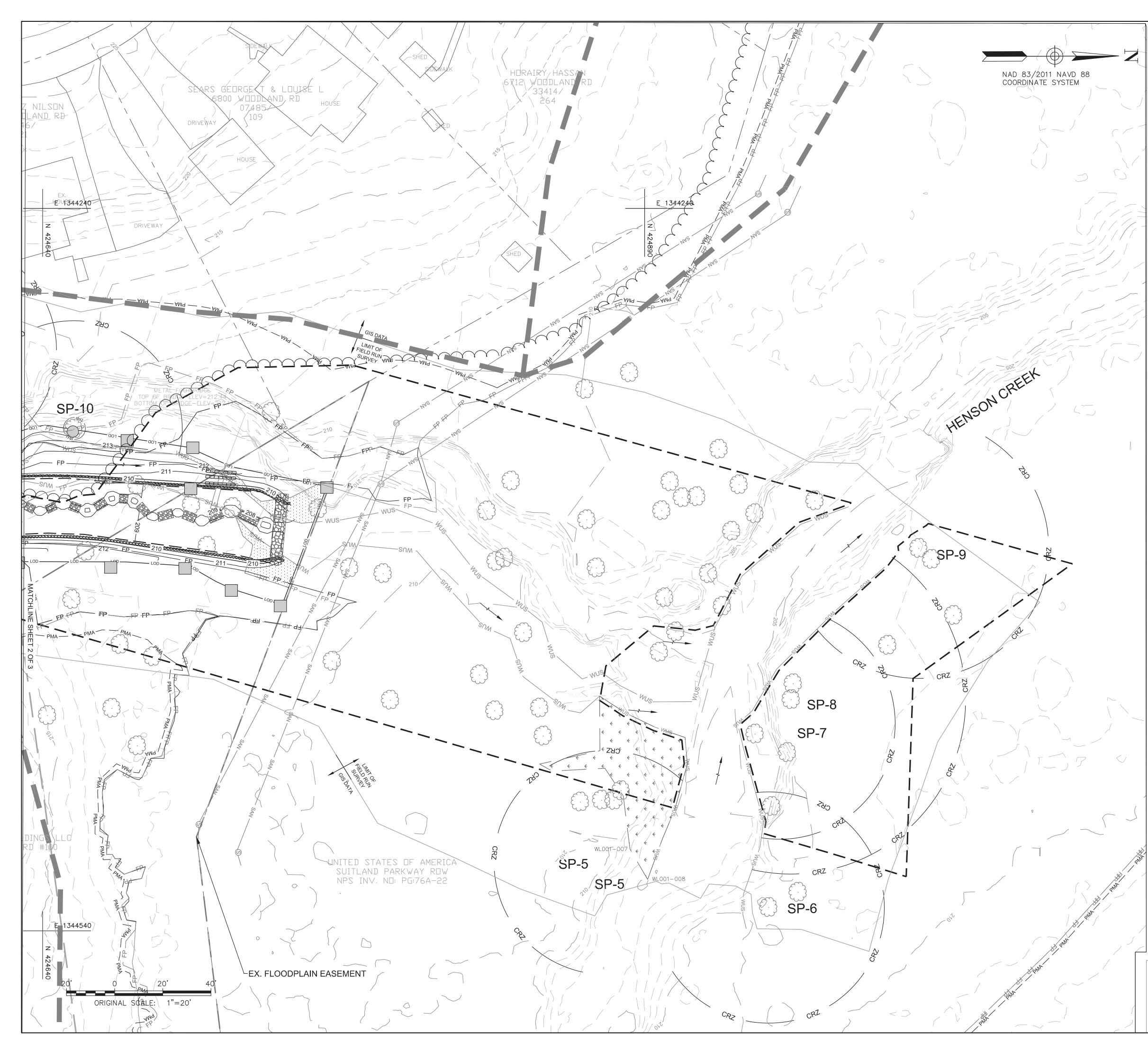
		Woodland (	Conservation Wo	orksheet			
	for Governme		ear Projects in P		e's County		
	SECTION 1-Establishing Site Info	ormation					
1	Property Description or Name:		to Henson Cree	k Stream Re	storation		
	Project Location;	Tributary 3 to Henson Creek Stream Restoration Morningside, MD					
	TCP2 Number:	PENDING Rev. No:					
	NRI Number:	PENDING			Rev. No:		
5	Zone:			R-80			
6	Gross Tract:			0.63	acres		
7	Project Area/Limits:				acres		
	SECTION 2-Determining Require	ements					
8	Existing Woodland in Project Lim			0.47	or	74.60%	
9	Woodland Cleared in Project Lin	nits		0.47			
10	Total area of woodland cleared (	subject to 1:1	replacement)	0.47			
11	Off-Site Woodland Conservation	Provided (aff	orestation)	0.00			
12	Off-Site Woodland Conservation						
13	Woodland Conservation Require	ment:					
	SECTION 3- Meeting the Require	ements					
14	Woodland Preserved			0.00			
15	Afforestation /Reforestation			0.00	Bond amount:	\$-	
16	Natural Regeneration			0.00			
17	Landscape Credit			0.00			
18	Speciment/Historic Tree Credit (	CRZ area *2.	0)	0.00			
19	Forest Enhancement Credit (Are	a *.25)		0.00			
20	Street Tree Credit (Existing or 10	-year canopy	coverage)	0.00			
21	Prior Credit for Off-site Woodland	Conservatio	on	0.00			
22	Current Credit for Off-site Woodla	and Conserva	ation	0.00			
23	Off-site Woodland Conservation	provided (affe	orestation)	0.00			
24	Off-site Woodland Conseration p	orovided (pres	servation)	0.00			
	Area Approved for Fee-in-lieu/PF			and the second s	Fee amount:	\$6,244.33	
	Area Approved for Fee-in-lieu/nor			10 COLORED ST	Fee amount:	\$0.00	
27	Woodland Conservation Provide	d		0.47	acres		
2000	Prepared by: Hally &	elly				04/00/0040	
28	Prepared by:	$\sim$ $-$				04/08/2019	
		Signed				Date	

MARYLAND DEPARTMENT OF NATURAL RESOURCES, QUALIFIED PROFESSIONAL CENTURY ENGINEERING, INC. 443-589-2400 HALEY KELLY

Haley Belly SIGNATURE

PROPERTY OWNERS AWARENESS CERTIFICATE I/We Kille E. Frote 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.
Angle & Doate
Owner or Owner's Representative
Date
I/We <u>Sher (a 1 ) cott</u> 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 Owner's Representative
<u>9 MAY 2019</u> Date
I/We Nilson O. Canenque 3. 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 of Owner's Representative
Date /
I/We LOUISE L. SEARS 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 Owner's Representative
Owner or Owner's Representative <u>6800</u> MORALAND RD <u>05/09/2019</u> MORALAND RD <u>Date</u>
No. 400 A Long To A Long T
I/We THOMAS J. AYLWARD IF hereby
acknowledge that we are aware of this Type 2 Tree Conservation Plan (TCP2) and that we understand
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.
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Conservation Plan (TCP2) and that we understand the requirements as set forth in this TCP2. Owner or Owner's Representative <u>6.12.19</u> Date I/We <u>Darlene Dickews</u> hereby
Conservation Plan (TCP2) and that we understand the requirements as set forth in this TCP2. Owner or Owner's Representative <u>6.12.19</u> Date
Conservation Plan (TCP2) and that we understand the requirements as set forth in this TCP2. Owner or Owner's Representative <u>6.12.19</u> Date I/We <u>Doclene Dickews</u> 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. <u>Varlue Ouchem</u>
Conservation Plan (TCP2) and that we understand the requirements as set forth in this TCP2. Owner or Owner's Representative $\underline{6.12.19}$ Date I/We <u>Darlene Dickews</u> 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. <u>Varlene Oucken</u> Owner or Owner's Representative <u>5-10-19</u>
Conservation Plan (TCP2) and that we understand the requirements as set forth in this TCP2. Owner or Owner's Representative G-12-19 Date I/We Doclene Dickeds 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. Darline Ouchem Owner or Owner's Representative
Conservation Plan (TCP2) and that we understand the requirements as set forth in this TCP2. Owner or Owner's Representative $G \cdot 12 \cdot 19$ Date I/We Daclene Dickews 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. Warline Ouchem Owner or Owner's Representative S-L0-19 Date
Conservation Plan (TCP2) and that we understand the requirements as set forth in this TCP2. Owner or Owner's Representative <u>G-12.19</u> Date I/We <u>Daclene Dickews</u> 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. <u>Varlue Uschem</u> Owner or Owner's Representative <u>S-10-19</u> Date <b>TITT CENTURY</b> ENGINEERING
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Conservation Plan (TCP2) and that we understand the requirements as set forth in this TCP2. Owner or Owner's Representative G-12.19 Date INVE <u>Daclene Dickews</u> 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. <u>Date</u> Owner or Owner's Representative <u>S-L0-19</u> Date <b>TETE CENTURE</b> E N G I N E E R I N G CONSULTING ENGINEERS - PLANNERS 10710 GILROY ROAD
Conservation Plan (TCP2) and that we understand the requirements as set forth in this TCP2. Owner or Owner's Representative <u>G.12.19</u> Date I/We <u>Daclene Dickeds</u> 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. <u>Date</u> Owner or Owner's Representative <u>S-L0-19</u> Date <b>TETE CENTUREY</b> ENGINEERS - PLANNERS 10710 GILROY ROAD HUNT VALLEY, MARYLAND 21031
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#### LEGEND

PROPERTY BOUNDARY (GIS)

EDGE OF PAVEMENT (GIS)

EX. STORM DRAIN (SURVEY)

EX. STRUCTURE (GIS)

STEEP SLOPES (15-25%)

CRITICAL ROOT ZONE

CLARITY)

**BED MATERIAL** 

ENTRANCE

FILTER BAG

PROPOSED BOULDER TOE PROTECTION

PROPOSED SUBGRADE FURNISHED

PROPOSED CLASS II RIPRAP SLOPE

FURNISHED BED MATERIAL EXTENTS

GRADE CONTROL LOG (GCL)

AND CHANNEL PROTECTION

LIMIT OF DISTURBANCE TEMPORARY HAUL ROAD

STABILIZED CONSTRUCTION

TREE PROTECTION PLANKING

TREE TO BE REMOVED

SANDBAG DIVERSION

OUTLET PROTECTION

WATER DIVERSION PUMP

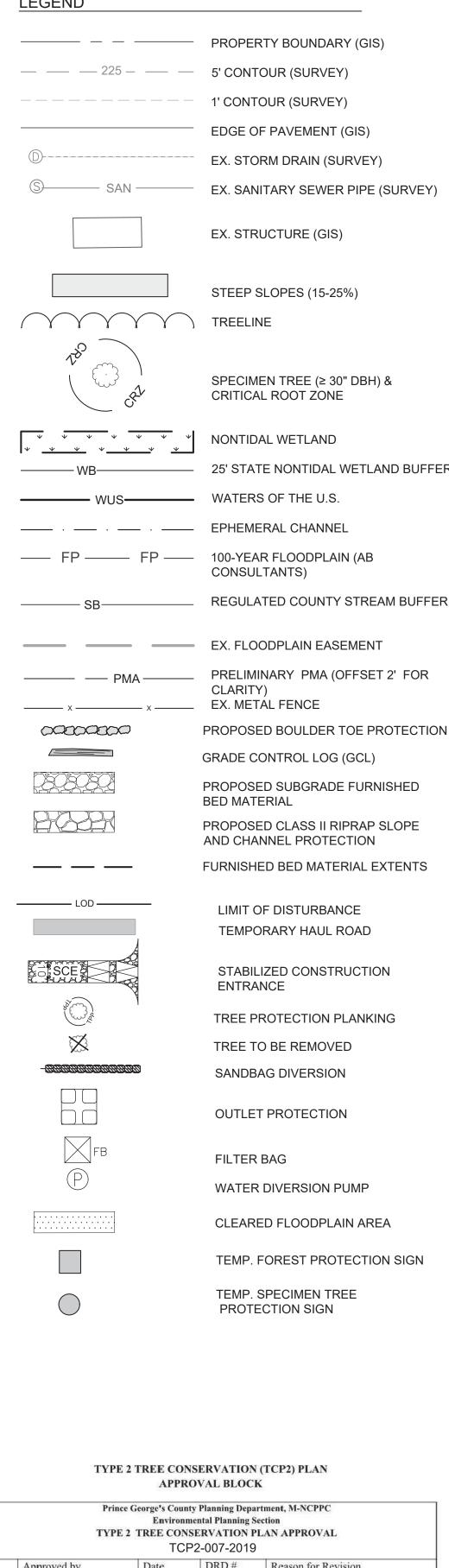
TEMP. SPECIMEN TREE

PROTECTION SIGN

CLEARED FLOODPLAIN AREA

TEMP. FOREST PROTECTION SIGN

SPECIMEN TREE (≥ 30" DBH) &



	TCP2-007-2019							
	Approved by	Date	DRD #	Reason for Revision				
00	(bur 2 Souder	6/27/2019		N/A				
01								
02								
03								
04								
05								

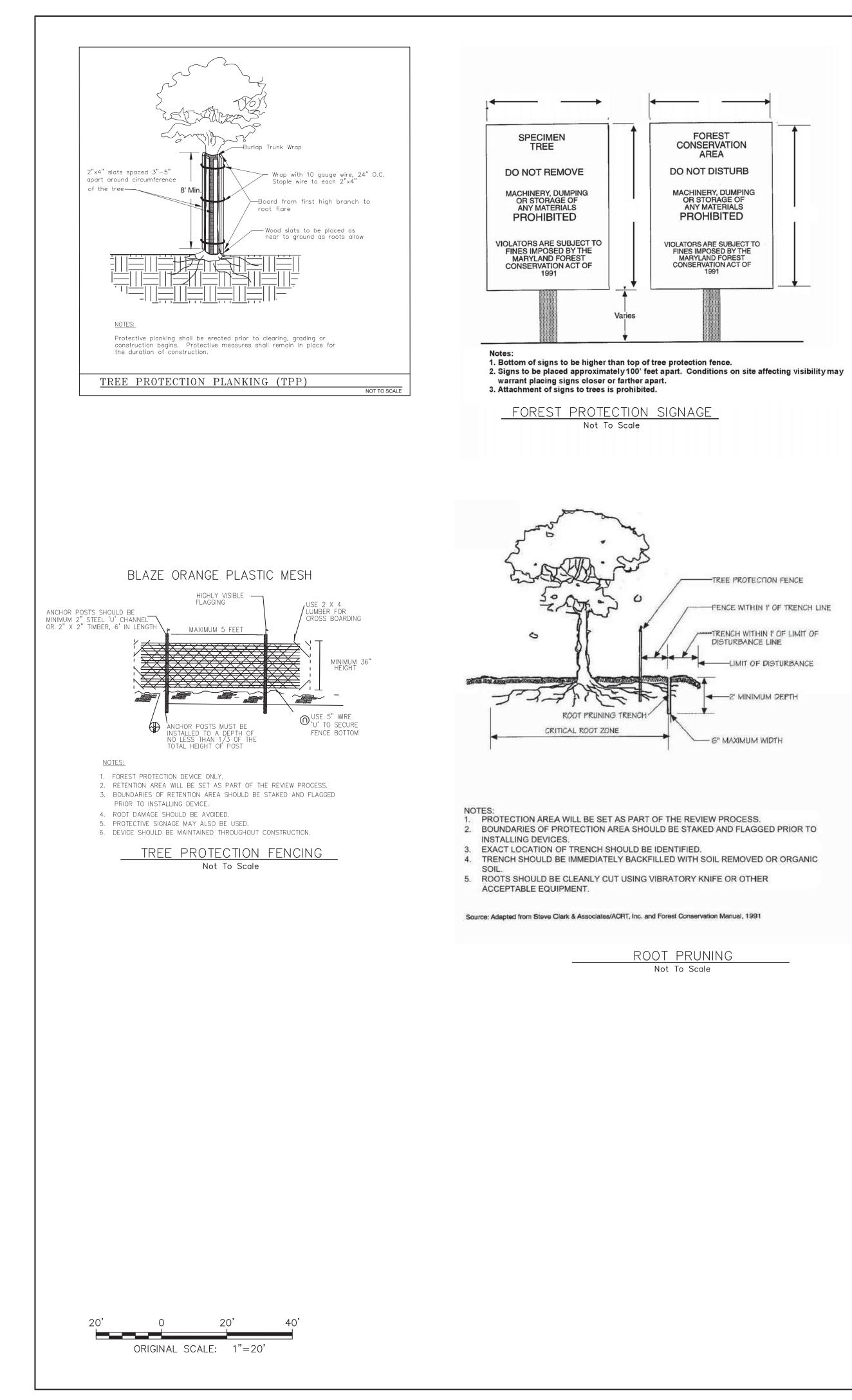
MARYLAND DEPARTMENT OF NATURAL RESOURCES, QUALIFIED PROFESSIONAL CENTURY ENGINEERING, INC. 443-589-2400 HALEY KELLY

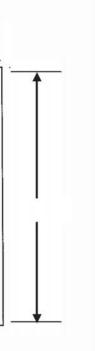
Hal Dem SIGNATURE

DDODEDT) / OLIVIEDO
PROPERTY OWNERS AWARENESS CERTIFICATE
I/We Kille E. Frote hereby
I/We A 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.
(Mile & Deate
Owner or Owner's Representative
5/8/2019
Date
3/ / 1/2-
I/We Sherla 1 Scott 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.
6.10
JV Joott 6804
Owner or Owner's Representative
9 MAY 2019
Date
I/We Nikson O. Canenque 3 hereby
I/We Wison O. Canangue 3 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's Representative
owner of when a representative
5/9/19
Date /
I/We LOUISE L. SEARS hereby
acknowledge that we are aware of this Type 2 Tree
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Jourse S. Sears
Owner or Owner's Representative
GBOD MODELTING STATE, M.D.
Owner or Owner's Representative 6800 MORANA RO MORANAG STOE, MO 20946
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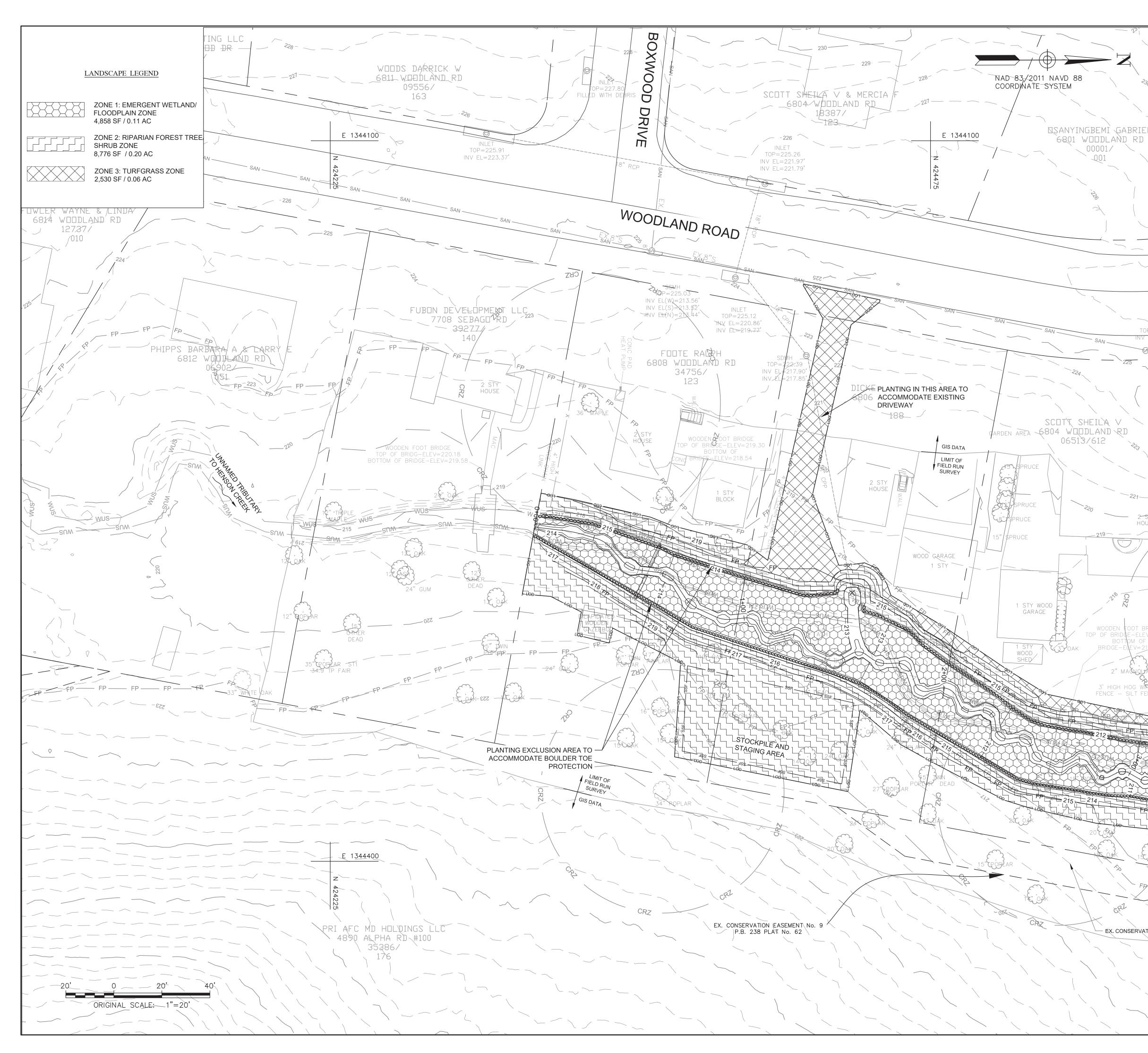
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TYPE 2 TREE CONSERVATIO			JECT
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Environmental Planning TYPE 2 TREE CONSERVATION TCP2-007-2019	PLAN APPROVAL	SHEET TITLE:	
Approved by Date DRD #	Reason for Revision N/A		NSERVATION PLAN
00 Duc 2 Soundar 6/27/2019 01 02			
03 04		SEAL:	PROJECT NO.: 111052.08 SCALE: DATE: DATE:
05			1"= 20'         04/08/2019           DESIGN:         CHECK:
MARYLAND DEPARTMENT OF NATURAL RESOU CENTURY ENGINEERING, INC.	RCES, QUALIFIED PROFESSIONAL 443-589-2400		DWG NO:
HALEY KELLY			SHEET NO:
Haley Belly			04 OF 07
SIGNATURE	04/08/2019 DATE		



		PROPERTY OWNERS AWARENESS CERTIFICATE
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	UNNAMED TRIBUTARY TO HENSON CREEK	Owner or Owner's Representative
L		5/8/2019 Date
	AROVE DR MORNINGSIDE POP. 1,291 AROVE DR MORNINGSIDE AROVE DR MORNINGSIDE	I/We Sherla / Scott hereby
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	FARR CR YLINE ESC CR YLINE E	the requirements as set forth in this TCP2.
	PARK WSSC 200' GRID NO.: 206SE06 PARK TAX MAP PAGE-GRID NO.: 89-D3	Owner or Owner's Representative
-	PROJECT AREA	<u>9 MAY 2019</u> Date
7-	1" = 2000'	I/We Nilson O. Canengue 3. hereby
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		the requirements as set forth in this TCP2.
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RIDGE √=21		Owner or Owner's Representative
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RENCE		<b>THE CENTURY</b> ENGINEERING
		CONSULTING ENGINEERS - PLANNERS 10710 GILROY ROAD
=21		HUNT VALLEY, MARYLAND 21031 PHONE: (443) 589-2400 FAX: (443) 589-2401
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		TRIBUTARY 3 TO
		HENSON CREEK
		STREAM RESTORATION
	TYPE 2 TREE CONSERVATION (TCP2) PLAN APPROVAL BLOCK	PROJECT
	Prince George's County Planning Department, M-NCPPC Environmental Planning Section	
1.	TYPE 2 TREE CONSERVATION PLAN APPROVAL TCP2-007-2019	
	Approved by     Date     DRD #     Reason for Revision       00     01     6/27/2019     N/A	TYPE 2 TREE CONSERVATION PLAN           LANDSCAPE PLAN SHEET
	02	SEAL: PROJECT NO.: 111052.08
	04	SCALE: 1"= 20' DESIGN: CHECK:
	MARYLAND DEPARTMENT OF NATURAL RESOURCES, QUALIFIED PROFESSIONAL CENTURY ENGINEERING, INC. 443-589-2400	
	HALEY KELLY	pLS-01 OF 02
```	Haley Kelly	5 OF 7
	SIGNATURE 04/08/2019 DATE	

#### LANDSCAPE LEGEND

ZONE 1: EMERGENT WETLAND/ FLOODPLAIN ZONE 3,200 SF / 0.07 AC ZONE 2: RIPARIAN FOREST TREE SHRUB ZONE 3,621 SF / 0.08 AC

ZONE 3: TURFGR 502 SF / .01 AC ZONE 3: TURFGRASS ZONE

> R.B. 238 PLAT No. 62 **TYPE 2 TREE CONSERVATION (TCP2) PLAN** Prince George's County Planning Department, M-NCPPC **Environmental Planning Section TYPE 2 TREE CONSERVATION PLAN APPROVAL** Reason for Revision N/A

MARYLAND DEPARTMENT OF NATURAL RESOURCES, QUALIFIED PROFESSIONAL CENTURY ENGINEERING, INC. 443-589-2400 HALEY KELLY

APPROVAL BLOCK

TCP2-007-2019

DRD #

Date

buch Scholer 6/27/2019

SIGNATURE

WOODLAND ROAD CANENGUEZ NILSON 6802 WOODLAND RD 21946/ 321 E 1344240 PLANTING EXCLUSION AREA TO = ACCOMMODATE BOULDER TOE AND/OR IMBRICATED ROCK WALL EX. CONSERVATION EASEMENT No. 9 EX. FLOOD PLAIN EASEMENT ÈRART ONE LIBER 32908 FQLIO 476/ PRI AFC HULDINGS PHÁ RIN #100 4890 A 3867 E 1344540 20' ORIGINAL SCALE: 1'=20'



PROPERTY OWNERS AWARENESS CERTIFICATE INVe Kille E. Frote acknowledge that we are aware of this Type 2 Tree / EXISTÍNG RIO Conservation Plan (TCP2) and that we understand the requirements as set forth in this TCP2. Multi de the set forth in this TCP2. Owner or Owner's Representative ✓ UNNAMED TRIBUTARY TO HENSON CREEK 5/8/2019 Date PROJECT LOCATION I/We Sherla V Scott 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. 51 Scott 6804 PARK WSSC 200' GRID NO.: 206SE06 TAX MAP PAGE-GRID NO.: 89-D3 Owner or Owner's Representative SSMH 9 MAY 2019 PROJECT AREA TOP=209.87 INV EL=200.44 Date INV EL=200.42 1" = 2000' I/We Nikon O. Course 3 hereby acknowledge that we are aware of this Type 2 Tree Conservation Plan (TCP2) and that we understand rements as set forth in this TCP2. 6802 I/We Louise L. SEARS 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. Jourse N. Sears GBOD MODULAND RO MORNING STOE, MD or Owner's Repre 05/09/2019 ROTT I/We THOMAS J. AYLWARD THE 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 Owner's Representative <u>6.12.19</u> Date I/We Donlene Dickews 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 Owner's Representative 5-10-19 Date °1"∕ ∱wii **CENTURY** ENGINEERING T1, 48.3' TP POOR **CONSULTING ENGINEERS - PLANNERS** POPLAR 10710 GILROY ROAD HUNT VALLEY, MARYLAND 21031 PHONE: (443) 589-2400 FAX: (443) 589-2401 PROJECT NAME: **TRIBUTARY 3 TO HENSON CREEK** STREAM RESTORATION PROJECT SHEET TITLE: **TYPE 2 TREE CONSERVATION PLAN** LANDSCAPE PLAN SHEET 111052.08 1"= 20' SIGN pLS-02 OF 02 6 OF 7

#### Landscaping Notes:

General Notes -

1. Unless otherwise stipulated by specific requirements of this manual, the landscaping shown on this plan must be planted in accordance with the latest edition of the landscape specification guidelines, developed by the MD-DC-VA chapter of the Landscape Contractors Association.

2. Any plantings within a forest retention area, as designated on the forest conservation plan and shown on this plan, must be done to avoid any adverse impact on the roots of existing trees.

All plant material will be reinspected for survival by the Planning and Code Administration one year following installation. a 10 percent maintenance bond will be retained during this time period.

4. Soil conditions must be tested, verified, and adjusted by the landscape contractor to insure that appropriate soils composition and pH levels are suitable for plant materials specified for that specific location.

Plant Material Selection -

The contractor shall furnish plant materials in sizes and quantities specified in the plant schedules. 1.

Nursery grown plant material should meet or exceed the requirements of the American 2.

Nursery & Landscape Association's' (A.N.L.A.) latest edition of "American Standard Nursery Stock" (ANSI Z60.1) Specifications, particularly regarding the size, growth, size of the root ball, and density of branch structure.

All planting material shall be sourced from within 100 miles of the site.

4. No substitutions shall be made without the written consent of the Owner and/or Landscape Architect.

5. The Landscape Architect or Owner shall have the right, at any stage of the operations, to reject any and all work and materials which, in his or her opinion, does not meet the requirements of these plans and specifications. All rejected material shall be removed from the site by the Contractor.

Plant Material Transport, Approval, & Storage -

1. Plant material shall be protected to prevent sun scald, desiccation, and structural damage during transport to the site. Root stock of the plant material shall be kept moist during transport from the source to the job site and until planted.

2. Plant material shall be inspected to be free of disease, damage, insect infestation, and vigor upon delivery to the site. All plants should be healthy and well structured. No heeled-cold storage or collected stock will be accepted. Plants in poor condition shall be rejected, removed from the site and replaced with acceptable materials.

3. Plant material shall be stored in a cool, shaded area on the site and kept moist to prevent desiccation until ready for planting. Planting shall begin within 24 hours of plant delivery to the site. Plant material that remains unplanted beyond 24 hours shall be protected from direct sun, and weather and kept moist. Plant materials shall not be left unplanted for more than 2 weeks.

4. The contractor is required to obtain clean fresh water for use during planting operations and the subsequent maintenance period.

Site Preparation and Planting -

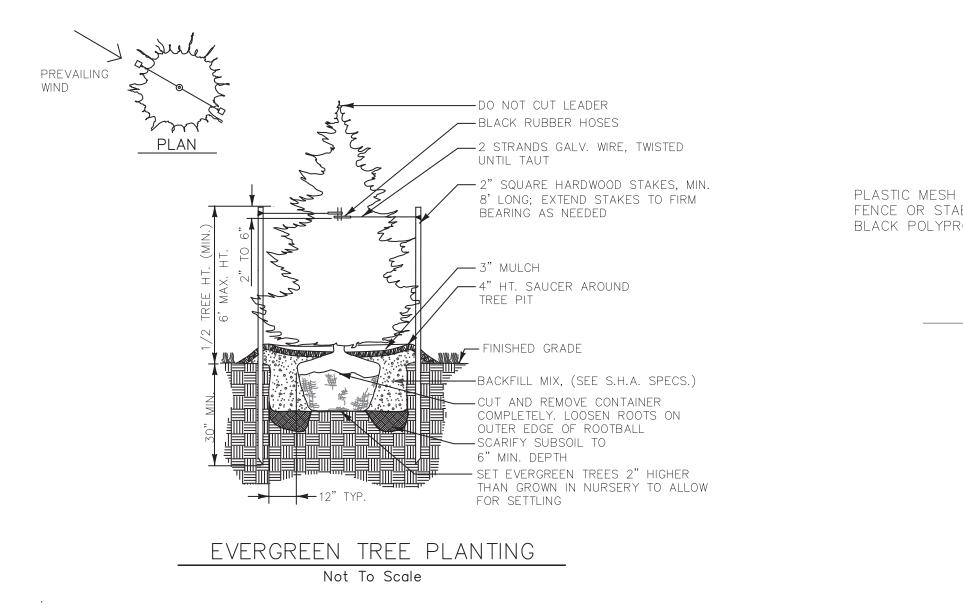
The site and areas immediately abutting (within 25' of) the LOD shall be treated for invasive species prior to the start of construction.

2. No clearing or grading shall begin before stress-reduction measures have been implemented. Such measures may include root pruning, crown reduction or pruning, etc as specified on sheet 38 of 61 or by the plan preparer or an MDLTE/ISA certified arborist. See Forest Conservation Plan sheet for more information.

3. Prior to beginning any construction activities, tree protection fencing shall be installed along all sections of the LOD abutting wooded/forested areas and around all 'tree save' areas to ensure preservation of these areas. See E&S plan sheets or the Forest Conservation Plan sheet for more information.

4. All tree protection measures must be in place at the time of the Sediment & Erosion Control inspection, prior to the commencement of demolition, site clearing, grading, or construction. Tree protection devices shall be maintained for the duration of construction. No equipment, trucks, materials, or debris may be stored within the tree protection areas during the entire construction project.

5. All trees to be removed must be removed in a manner that will not damage the remaining trees. The Contractor shall dispose of stumps and major roots of all plants to be removed. Any depressions caused by removal operations shall be refilled with fertile, friable, soil placed and compacted so as to reestablish



proper grade for new planting and/or lawn areas.

6. Any trees that are to remain that are damaged during the clearing operation must be repaired or removed and replaced in an approved manner by an MDLTE/ISA certified arborist or city representative as soon as final clearing has been completed.

7. Root pruning may be necessary where the critical root zone is impacted, as determined by the plan preparer or an MDLTE/ISA certified arborist. Pruning shall be along the LOD adjacent to tree protection fencing. A certified arborist shall supervise or conduct root pruning.

8. Refer to the MDSHA Standards and Specifications Section 710.03.01 Planting Seasons Table for acceptable planting period. Planting shall not be completed in sub-freezing temperatures; when the ground is frozen; when weather conditions will adversely affect plant materials; or when the soil is too wet or otherwise in a condition not acceptable for planting.

9. Mow planting area close to the ground one week (or less) prior to container planting date.

10. The Contractor is responsible for testing project soils. The Contractor is to provide a certified soils report to the owner. The contractor shall verify that the soils on site are acceptable for the proper growth of the proposed plant material. Should the contractor find poor soil conditions, the contractor shall be required to provide soil amendments as necessary. These amendments shall include, but not be limited to fertilizers, lime, and topsoil. Proper planting soils must be verified prior to when planting materials are installed.

11. Prepare planting pits per details as shown MDSHA Standards and Specifications Section 710.03.04.

12. All trees are to be located and minimum distance of 5 feet from all utility boxes, 5 feet from a storm drain inlet or man-hole, 10 feet from a fire hydrant, 15 feet from public street lights, 5 feet from driveway aprons, 20 feet from any traffic control sign, and at least 30 feet away from any intersection.

13. Install plant materials per MDSHA Standards and Specifications 710.03.09.

14. Upon completion of all landscaping, an acceptance of the work shall be held. The contractor shall notify the Landscape Architect of the Owner for scheduling of the inspection at least seven (7) days prior to the anticipated inspection date.

15. After installation of plants, the contractor shall monitor the soil moisture and water needs of plants and seed as necessary to ensure survivability. Watering planting pits and seeded areas should occur as specified in MDSHA Standards and Specifications Section 710.03.04(c).

16. A biodegradable tree shelter is to be installed as shown in the Biodegradable Tree Shelter detail around every planted deciduous tree.

Maintenance -

Upon completion of installation, the planting area is to be maintained for a 2 year period. An 85% survival rate must be achieved from the date of acceptance to the termination of the maintenance period. Maintenance shall be as follows:

- through selected and approved means.
- the planted materials.
- d.
- identical species or an approved replacement.
- rate as required by Prince George's County

a. Any plant material showing signs of distress are to be replaced immediately by the contractor.

b. Native volunteer seedlings shall be removed only if they are adversely impacting the growth of the planted material. Non-native and invasive species are to be treated within the entire planting area

c. All man-made materials shall be removed from the site which would impact the establishment of

Thoroughly water planted material once weekly or as needed during the growing season.

e. Planted material is to be monitored for signs of damage and appropriate actions shall be taken to prevent further damage. This may include, but not be limited to, the following: pest damage or infestation, disease or browsing; any dead or decimated material shall be replaced with the

f. At the end of the 2 year maintenance period, the site shall be inspected for the approved survival

### HENSON CREEK TRIBUTARY 3 PLANTING SCHEDULES

Turfgrass Seed Mix (Total Area = 3,032 SF / 0.07 AC)

Botanical Name	Quantity (Ibs)
SHA Turfgrass Seed Mix 920.06.07 (a)	14.00
Total Application Rate of 200 lbs/ac	

#### Emergent Wetland/Floodplain Zone Plugs (8,058 SF / 0.18 AC)

Botanical Name	Common Name	Size	Form	Spacing
Carex stricta	Tussock sedge	5" Depth	2" Plug	3' O.C.
Osmunda regalis	Royal fern	5" Depth	2" Plug	3' O.C.
Onoclea sensibilis	Sensitive fern	5" Depth	2" Plug	3' O.C.
Scirpus cyperinus	Wool grass	5" Depth	2" Plug	3' O.C.
Iris versicolor	Blue flag	5" Depth	2" Plug	3' O.C.
Verbena hastata	Swamp verbena	5" Depth	2" Plug	3' O.C.
				Total

#### Riparian Forest Tree/Shrub Zone (12,397 SF / 0.28 AC)

Botanical Name	Common Name	Strata	Size	Form
Liriodendron tulipifera	Tulip poplar	LST	6-8' Height	#5 Container
Quercus rubra	Northern Red Oak	LST	6-8' Height	#5 Container
Carya glabra	Pignut Hickory	LST	6-8' Height	#5 Container
Quercus alba	White Oak	LST	6-8' Height	#5 Container
Cercis canadensis	Eastern Redbud	MST	5' Height	#3 Container
Sassafras albidum	Sassafras	MST	5' Height	#3 Container
llex opaca	American Holly	MST	5' Height	#3 Container
llex verticillata	Common winterberry	Shrub	2'-3' Height	#2 Container
Viburnum dentatum	Southern arrowwood	Shrub	2'-3' Height	#2 Container
Lindera benzoin	Spicebush	Shrub	2'-3' Height	#2 Container
LST= Large Shade Tree, N	1ST=Medium Shade Tree			

#### Riparian Forest Zone Seed Mix (12,397 SF / 0.28 AC)

Botanical Name	Common Name	Percent of Mix
Andropogon gerardii	Big bluestem	35.00%
Panicum virgatum	Switchgrass	28.00%
Elymus virginicus	Virginia wildrye	22.00%
Sorghastrum nutans	Indiangrass	12.00%
Desmodium canadense	Showy ticktrefoil	1.00%
Symphyotrichum novae-angliae	New England aster	1.00%
Aquilegia canadensis	Red columbine	1.00%
Total Application Rate of 40 lbs/ac.	To be applied with 15lbs/ac of per	ennial ryegrass (Lolium pere

and 60lbs/ac of hard fescue (*Festuca trachyphylla*) during the periods of March 1 to May 15 and August 1 to October 15 or foxtail millet (Setaria italica) if during May 16 to July 31.

#### Emergent Wetland/Floodplain Zone Seed Mix (8,058 SF / 0.18 AC)

	• •	
Botanical Name	Common Name	Percent of Mix
Elymus riparius	Riverbank wildrye	28.00%
Andropogon gerardii	Big bluestem	20.00%
Panicum clandestinum	Deertongue	10.00%
Carex lurida	Shallow sedge	10.00%
Carex vulpinoidea	Fox sedge	10.00%
Carex scoparia	Blunt broom sedge	8.00%
Panicum virgatum	Switchgrass	4.00%
Juncus effusus	Soft rush	2.00%
Asclepias incarnata	Swamp milkweed	2.00%
Eupatorium perfoliatum	Common boneset	2.00%
Vernonia noveboracensis	New York ironweed	2.00%
Heliopsis helianthoides	Oxeve sunflower	2.00%

Total Application Rate of 40 lbs/ac. To be applied with 15lbs/ac of perennial ryegrass (Lolium peren and 60lbs/ac of hard fescue (Festuca trachyphylla) during the periods of March 1 to May 15 and August 1 to October 15 or foxtail millet (Setaria italica) if during May 16 to July 31.

3' O.C.

Not To Scale

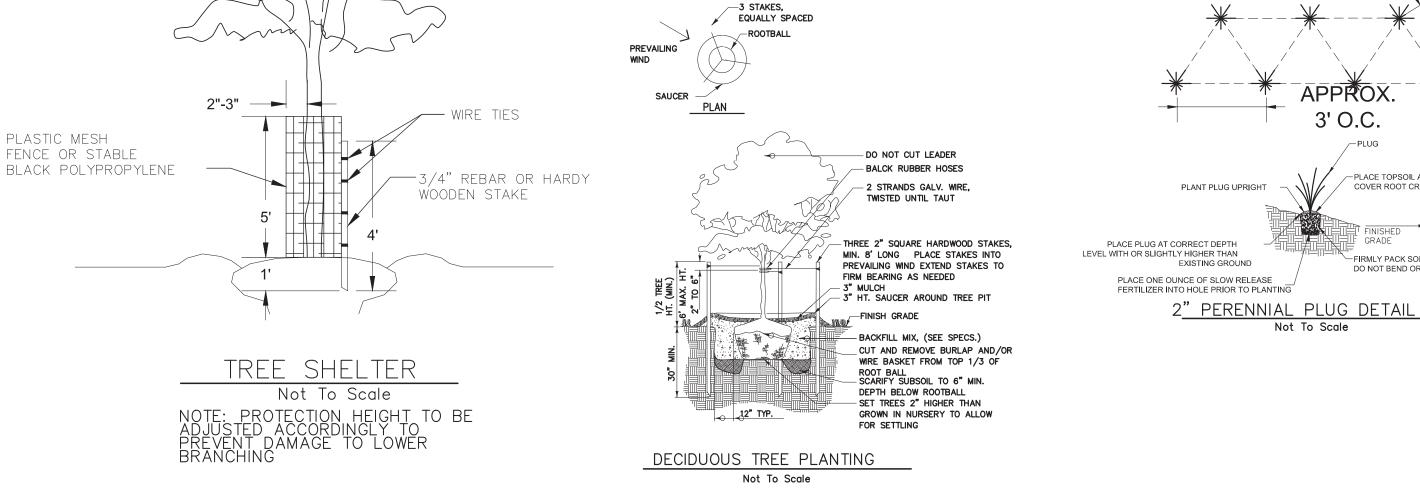
-PLACE TOPSOIL AROUND

COVER ROOT CROWN B

FIRMLY PACK SOIL TO RE

SIGNATURE

DO NOT BEND OR BREAK



TYPE 2 TREE CONSERVATION (TCP2) PLAN APPROVAL BLOCK					PROPERTY OWNERS AWARENESS CERTIFICATE			
		Prince George's County Planning Department, M-NCPPC Environmental Planning Section TYPE 2 TREE CONSERVATION PLAN APPROVAL TCP2-007-2019				I/We Kitch E. Frote hereby acknowledge that we are aware of this Type 2 Tree Conservation Plan (TCP2) and that we understand		
	Approved b 00 01.02	Date	DRD # 2019	Reason for Revision N/A		the requirements as set forth in this TCP2.		
	03 04 05					5/8/2019 Date		
Quantity 172 172 172 172 172 172 172 172 172 172						I/We <u>Shella V Scot</u> 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. <u>SV Scott 6804</u> Owner or Owner's Representative <u>9 MAY 2019</u> Date	Э	
<b>Spacing</b> 16-18' O. 16'-18' O. 16'-18' O. 16'-18' O. <b>Toto</b> 12'-14' O.	C.       11         C.       11         C.       11         C.       10         nl:       43         C.       8					I/We Nikson O. Compute 3: 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. (0802) Owner of Owner's Representative 5/9/19 Date	е	
12'-14' O. 12'-14' O. 6'-8' O.C 6'-8' O.C 6'-8' O.C 6'-8' O.C	C.     7       11:     22       26     25       2.     25					I/We Louise L. SEARS 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. Autor, Start Owner or Owner's Representative BOO MOODLAND BOD MOODLAND MORNING STRE, M.	9	
App 	blication Rate ( 14.00 11.20 8.80 4.80 0.40 0.40 0.40	Ibs/AC)       Quantities         3.3       3.3         2.4       3.3         2.4       1.3         0.1       0.1         0.1       0.1         10.1       0.1         10.1       0.1         10.1       11.	22       14       16       35       11       11       11			Date I/We <u>Homas</u> J. <u>Ayuwarv</u> hereb acknowledge that we are aware of this Type 2 Tre Conservation Plan (TCP2) and that we understand the requirements as set forth in this TCP2. Owner or Owner's Representative <u>G-12.19</u> Date	y ee	
Ap	plication Rate ( 11.20 8.00 4.00 4.00 4.00 3.20	1. 0. 0. 0.	<b>ty (lbs)</b> 02 44 72 72 72 58			I/We Darlene Dickews hereby acknowledge that we are aware of this Type 2 Tre Conservation Plan (TCP2) and that we understand the requirements as set forth in this TCP2. Ourlene Ouchen Owner or Owner's Representative 5-Lo-19 Date	е	
nne)	1.60 0.80 0.80 0.80 0.80 0.80 0.80	0. 0. 0. 0. 0. 0. 0.	29 14 14 14 14 14 14 14 <b>20</b>			CONSULTING ENGINEERS - PLANNERS 10710 GILROY ROAD HUNT VALLEY, MARYLAND 21031 PHONE: (443) 589-2400 FAX: (443) 589-2401		
<u> </u>	PPROX. 3' O.C.	FINISH GRADE		S BACKFILL MIX, (SEE SPECS.) SPADE EDGING, TYP. SPADE EDGING, TYP. GRADE UNLESS OTHERWIS SOIL CONDITIONS SOIL CONDITIONS SOIL CONDITIONS SCARIFY SUBSOIL TO 6" MIN DEPTH SET ON FIRMLY PACKED SOIL TO PREVENT SETTLING	E REQUIRED BY	PROJECT NAME: TRIBUTARY 3 TO HENSON CREEK STREAM RESTORATION PROJECT		
MOVE AIR POCK ROOTS	ETS	NON-BIODEGR USING A SHAR LENGTH OF TH	TAINER SHRUBS, COMPLE ADABLE CONTAINERS AN P BLADE AND MAKING 4 T IE ROOTBALL.	D SCARIFY ROOTBALL BY		SHEET TITLE: <u>TYPE 2 TREE CONSERVATION PLAN</u> LANDSCAPE DETAIL		
		SHI	RUB PLANTIN Not To Scale	IG		SEAL: PROJECT NO.: 111052.08 SCALE: DATE:		
		DEPARTMENT ( NAL CENTURY E		RESOURCES, QUALIFIE 6, INC.	D 443-589-2400	N.T.S. DESIGN: CHECK:		
	HALEY KELL					pLD-01 OF 01		
	Anna	ing				7 of 7		

04/08/2019 DATE

7 of 7