

## <u>TABLES</u>

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		Table	-	-		
ree ID	Diameter	Common Name	Scientific Name	Condition Rating and Comments	Disposition	Preservation Comments
1	36	pin oak	Quercus palustris	Fair, dw*	Save	Outside of LOD
2	32.5	black cherry	Prunus serotina	Fair, lean, dw*	Save	Outside of LOD
3	42.5	American sycamore	Platanus occidentalis	Fair, vines	Save	Outside of LOD
4	33.5	American beech	Fagus grandifolia	Good	Save	Outside of LOD
5	34	white oak	Quercus alba	Good	Save	Less than 30%
			-			within the LOD, will install protective tree fencing to protect CRZ
6	34	white oak	Quercus alba	Good	Save	Less than 30% within the LOD, will install protective tree fencing to protect CRZ
7	32	white oak	Quercus alba	Fair, mold, dw*	Save	Less than 30% within the LOD, will install protective tree fencing to protect CRZ
8	38	Northern red oak	Quercus rubra	Good	Save	Outside of LOD
9	31	green ash	Fraximus	Fair-vines	Save	Outside of LOD
10	38.5	white oak	pennsylvanica Quercus alba	Good	e	Ontide STOP
30	35	silver maple	Acer saccharinum	Fair, vines, lean	Save Save	Outside of LOD Outside of LOD
31	55	silver maple	Acer saccharinum	Fair	Save	Outside of LOD
32	34	American	Platanus occidentalis	Fair	Save	Outside of LOD Outside of LOD
33	31.5	sycamore silver maple	Acer saccharinum	Good	Save	Outside of LOD
34	48	red maple	Acer rubrum	Fair	Save	Outside of LOD
35	41	silver maple	Acer saccharinum	Poor	Save	Outside of LOD
36	38	American	Platanus	Poor, dying	Save	Outside of LOD
15		sycamore	occidentalis			
37	30	American	Platanus	Dead, wetland	Save	Outside of LOD
38	46	sycamore black walnut	occidentalis Juglans nigra	Fair	Save	Less than 30%
						within the LOD, will install protective tree fencing to protect CRZ
39	38.5	American sycamore	Platanus occidentalis	Poor, vines, dw*	Save	Outside of LOD
40	34	dead tree	Unknown	Dead	Save	Outside of LOD
41	36	American	Platanus	Poor, vines, dw*	Save	Outside of LOD
- 12		sycamore	occidentalis			
42	36	green ash	Fraxinu <b>s</b> pennsylvanica	Fair	Save	Outside of LOD
43	37	green ash	Fraximus pennsylvanica	Fair	Save	Outside of LOD
44	36	American sycamore	Platanus occidentalis	Fair-Good	Save	Outside of LOD
45	35	red maple	Acer rubrum	Poor	Save	Outside of LOD
46	38	pin oak	Quercus palustris	Fair, vines, dw*	Save	Outside of LOD
47	31	pin oak	Quercus palustris	Fair	Save	Outside of LOD
48	30	river birch	Betula nigra	Poor	Save	Outside of LOD
49	30	silver maple	Acer saccharinum	Fair, lean	Save	Outside of LOD
50 51	31 31	American beech American	Fagus grandifolia Platanus	Good Fair	Remove Save	Outside of LOD
		sycamore	occidentalis			
52	32	pignut hickory	Carya glabra	Fair, mold	Save	Outside of LOD
53	52	American sycamore	Platanus occidentalis	Fair, lean	Save	Outside of LOD
54	37	American beech	Fagus grandifolia	Good	Save	Outside of LOD
55	32.5	American beech	Fagus grandifolia	Poor, decay	Save	Outside of LOD
56	35	silver maple	Acer saccharinum	Good	Save	Less than 50% within the LOD, will install protective tree fencing to protect CRZ
57	44	red maple	Acer rubrum	Poor	Save	Outside of LOD
58 59	40	American beech tuliptree	Fagus grandifolia Liriodondron	Good Good	Save Save	Outside of LOD Outside of LOD
		_	tulipifora			
60	<u>44</u> <u>32</u>	Northern red oak American beech	Quercus vubra Fagus grandifolia	Good Good	Save	Outside of LOD Outside of LOD
60 61			- Standyona		Javo	
60 61 62	35	American	Platanus	Fair/poor, dw*	Save	Outside of LOD
61		American sycamore silver maple	Platanus occidentalis Acer saccharinum	Fair/poor, dw*	Save Save	Outside of LOD Outside of LOD

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and ed te	Woodland Preservatio n Area	Woodland Reforestation Area (WRA) in PA	Woodland Retained/ Not Credited	Woodland Retained/ Assumed Cleared
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۱.	N/A	0.40	N/A	N/A
	N/A	0.31	N/A	N/A
	N/A	1.08	N/A	N/A
	N/A	0.01	N/A	N/A
	N/A	0.01	N/A	N/A
1	N/A	0.51	N/A	N/A
	N/A	0.30	N/A	N/A
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## GENERAL NOTES

GENERAL NOTES

- 1. This plan is submitted to fulfill the woodland conservation requirements for Contract #902-H (NRI-037-15). If this expires, then this TCP2 also expires and is no longer valid.
- 2. 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. 3. A pre-construction meeting is required prior to the issuance of grading permits. The Department of Public Works and Transportation of 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. 4. 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 the time of contract signing. Future property
- owners are also subject to this requirement. 5. The owners of the property subject to this tree conservation plan are solely responsible for conformance to the
- requirements contained herein.
- 6. The site is within the Developing Tier and is zoned mostly as Residential Agriculture (R-A).
- 7. The site is adjacent to Largo Road (MD 202) which is a designated historic roadway. 8. The property is adjacent to MD Route 4/ Pennsylvania Avenue which is classified as a freeway, and US Route
- 301/Crain Highway which is classified as an arterial roadway.
- 9. This plan is not grandfathered under CB-27-2010, Section 25-117 (g).
- 10. Tree and woodland conservation methods such as root pruning shall be conducted as noted on this plan. 11. The location of all temporary tree protection fencing (TPFs) shown on this plan shall be flagged or staked in the field prior to the pre-construction meeting. Upon approval of the locations by the county inspector, installation of TPFs
- may begin. 12. All temporary tree protection fencing required by this plan shall be installed prior to commencement of clearing and grading of the site and shall remain in place until the bond is released for the project. Failure to install and maintain temporary or permanent tree protective devices is a violation of this TCP-2.
- 13. A tree is considered hazardous if a condition is present which leads a Certified Arborist or Licensed Tree Expert to believe that the tree or a portion of the tree has a potential to fall and strike a structure, parking area, or other high use area and result in personal injury or property damage.
- 14. During the initial stages of clearing and grading, if hazardous trees are present, or trees are present that are not hazardous but are leaning into the disturbed area, the permitee shall remove said trees using a chainsaw. Corrective measures requiring the removal of the hazardous tree or portions thereof shall require authorization by the county inspector. Only after approval by the inspector may the tree be cut by chainsaw to near the existing ground level. The stump shall not be removed or covered with soil, mulch or other materials that would inhibit sprouting.
- 15. If a tree or trees become hazardous prior to bond release for the project, due to storm events or other situations not resulting from an action by the permitee, prior to removal, a Certified Arborist or a Licensed Tree Expert must certify that the tree or the portion of the tree in question has a potential to fall and strike a structure, parking area, or other high use area and may result in personal injury or property damage. 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. If corrective pruning may alleviate a
- hazardous condition, the Certified Arborist or a Licensed Tree Expert may proceed without further authorization. The pruning must be done in accordance with the latest edition of the appropriate ANSI A-300 Pruning Standards.

photos shall be submitted to the inspector for documentation of the damage. Debris from the tree removal or pruning that occurs within 35 feet of the woodland edge may be removed and properly disposed of by recycling, chipping or other acceptable methods. All debris that is more than 35 feet from the woodland edge shall be cut up to allow contact with the ground, thus encouraging decomposition. The smaller materials shall be placed into brush piles that will serve as wildlife habitat. 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 shown within the approved limits of disturbance on a TCP2. The work is required to be conducted by a Licensed Tree Expert.

The condition of the area shall be fully documented through photographs prior to corrective action being taken. The

- 15. All afforestation/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.
- 17. If planting cannot occur due to planting conditions, the developer or property owner shall install the fencing and signage in accordance with the approved TCP2. Planting shall then be accomplished during the next planting season. if planting is delayed beyond the transfer of the property title, 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. 18. 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.
- 19. 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 permeant 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. 20. Afforestation and 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. 21. The county inspector shall be notified prior to soil preparation or initiation of any tree planting on this site.
- 22. 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; 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. 23. 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.

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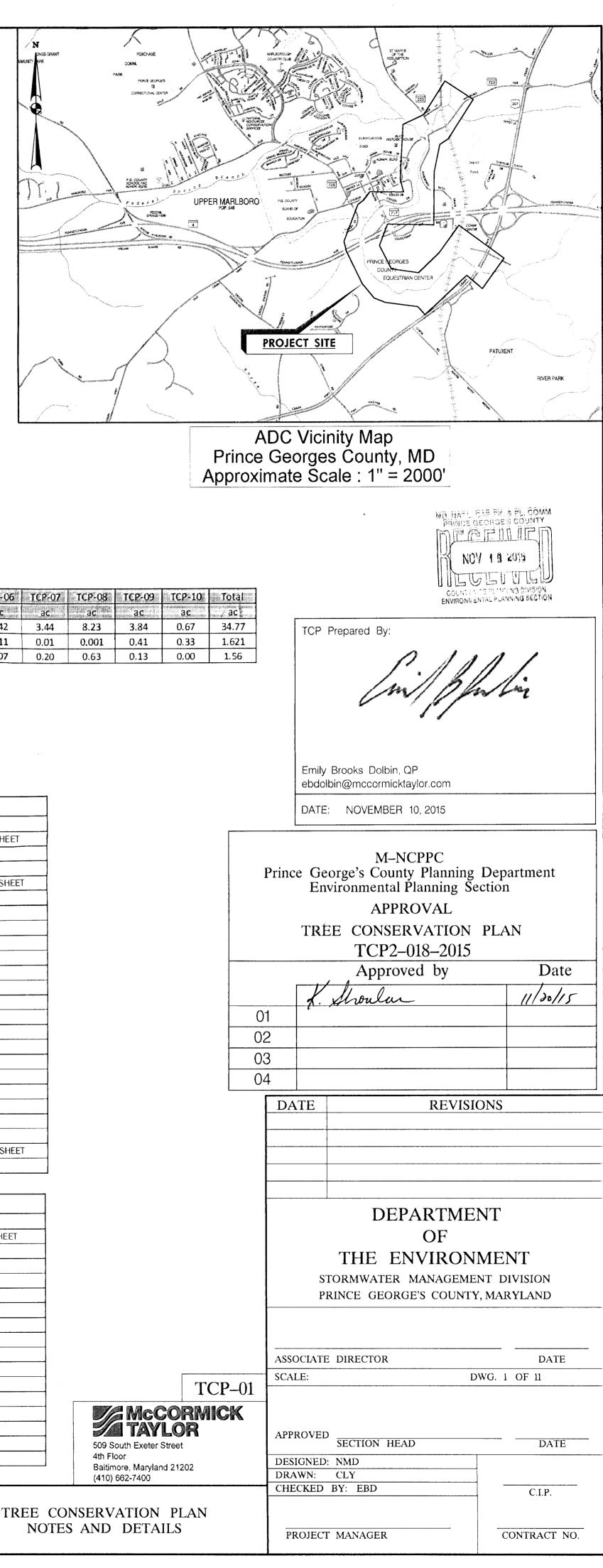
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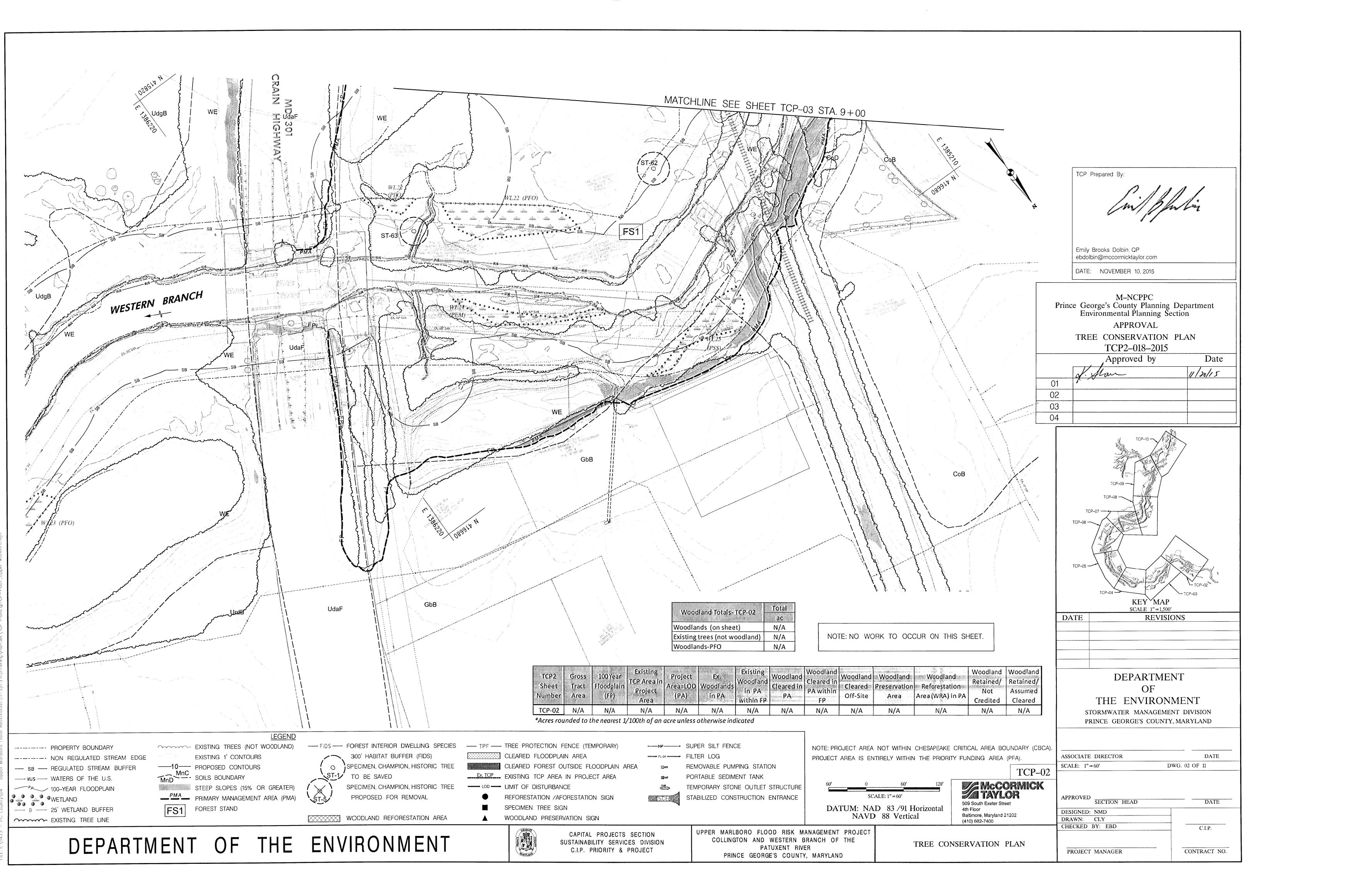


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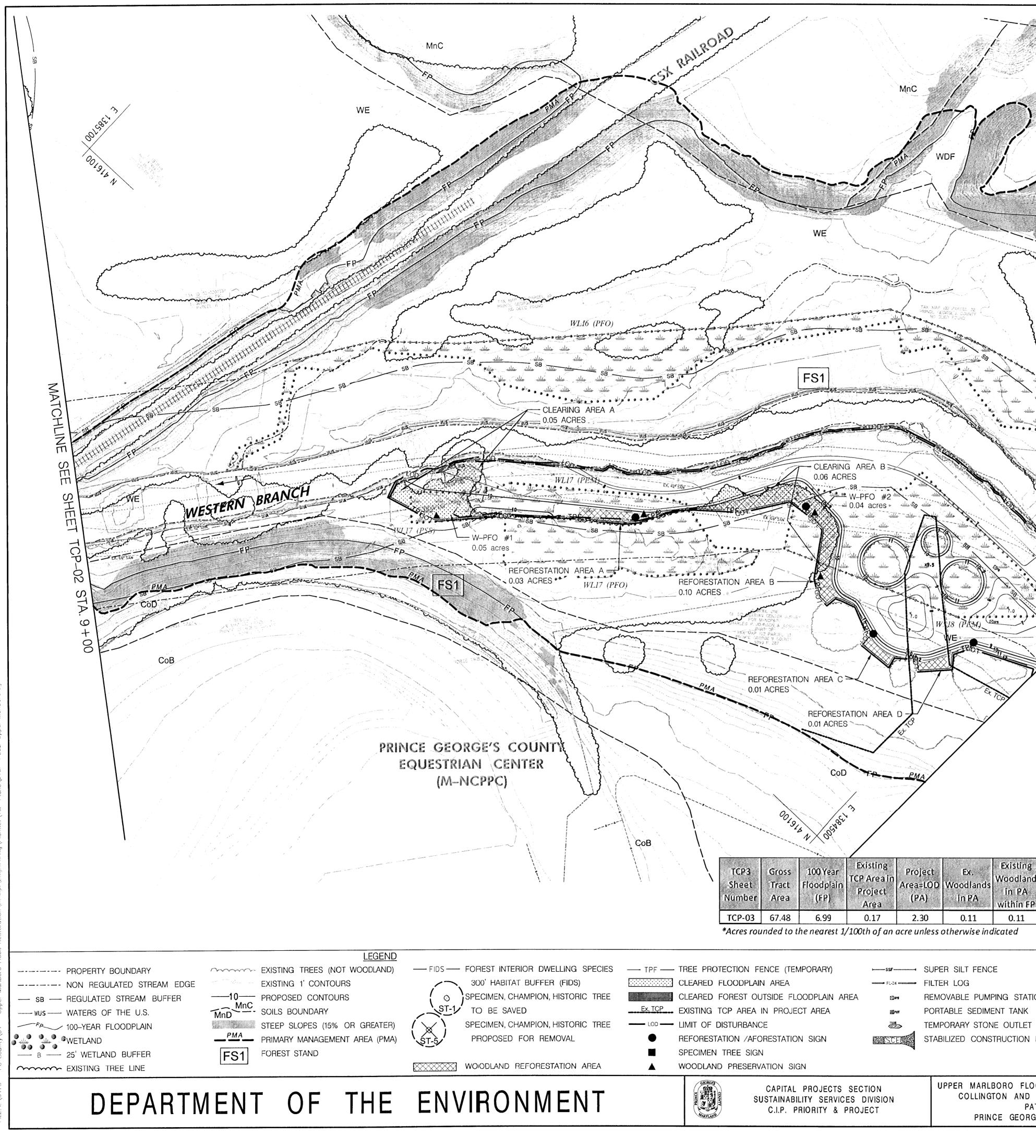
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# Table 2. Soils within the Study Area K-factor Hydric Hydric Hydric Hydric Hydrologie Drainage Class Description Construction <th Moderately low to high (0.14 to 1.98 in ltr) Not Hydric C Westphalta and Dodon Westphalta and Dodon Westphalta and Dodon Westphalta and Dodon Moderately sloping (25-40%) well drained Moderately high to high Not Hydrac Arc Well Drained sulk soils soils associated with hullslopes and ravines. (0 20 to 5.95 in hr) Not Hydrac Arc soils soils associated with hillslopes and ravines. (U.2007.50 mm, (WDF) Widewater and Issue soils Widewater and Issue drained ault associated with floodplains, drainageways, and (WE) Moderately low to high thigh Hydric B/D, C/ID Somewhat poorly drained



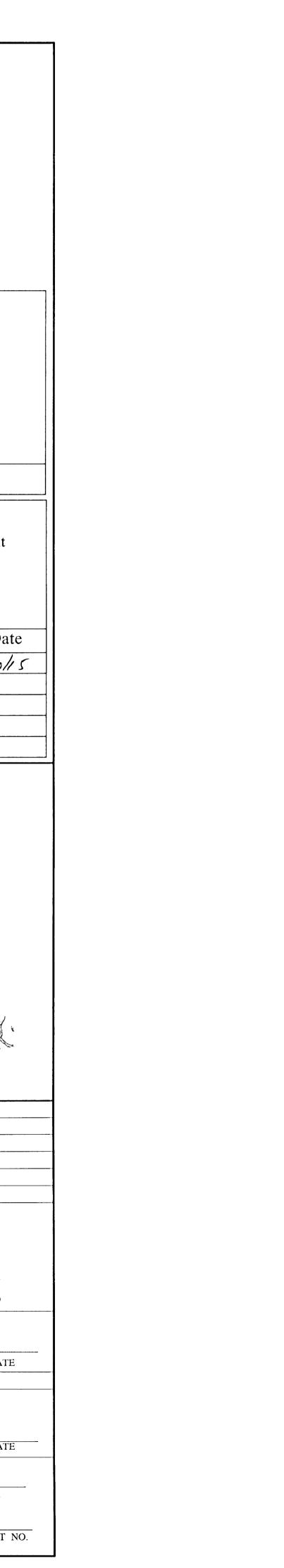


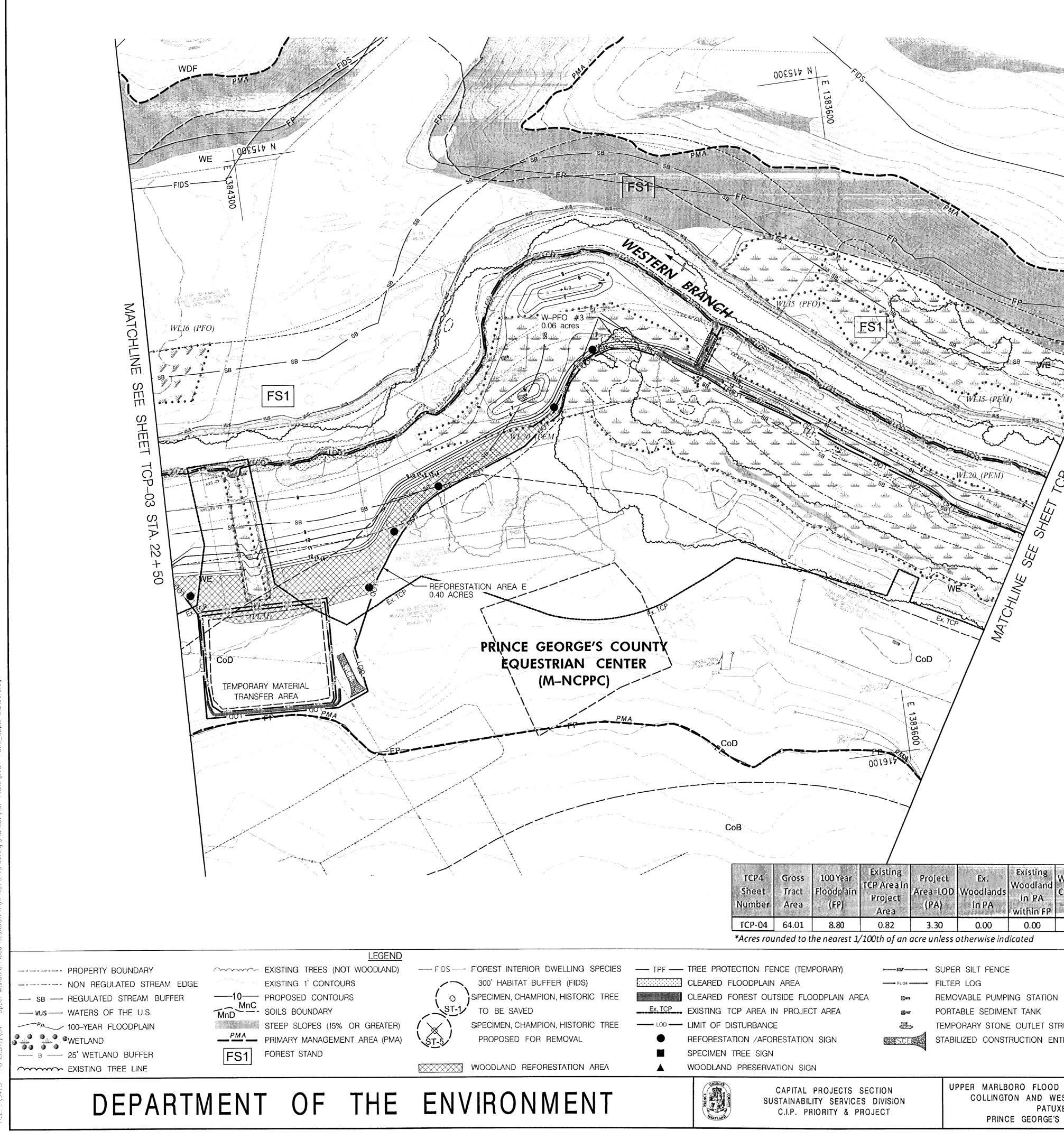






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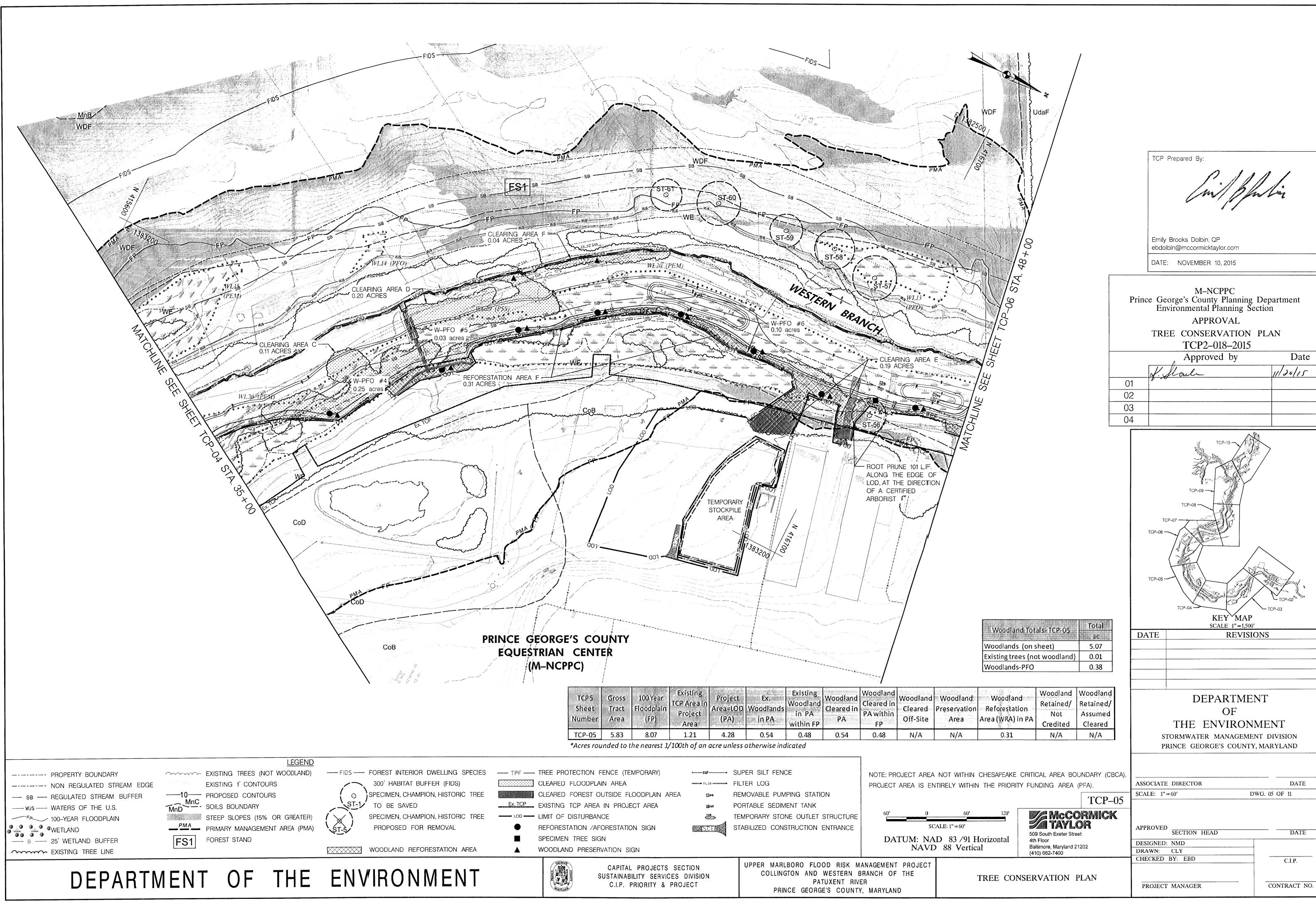




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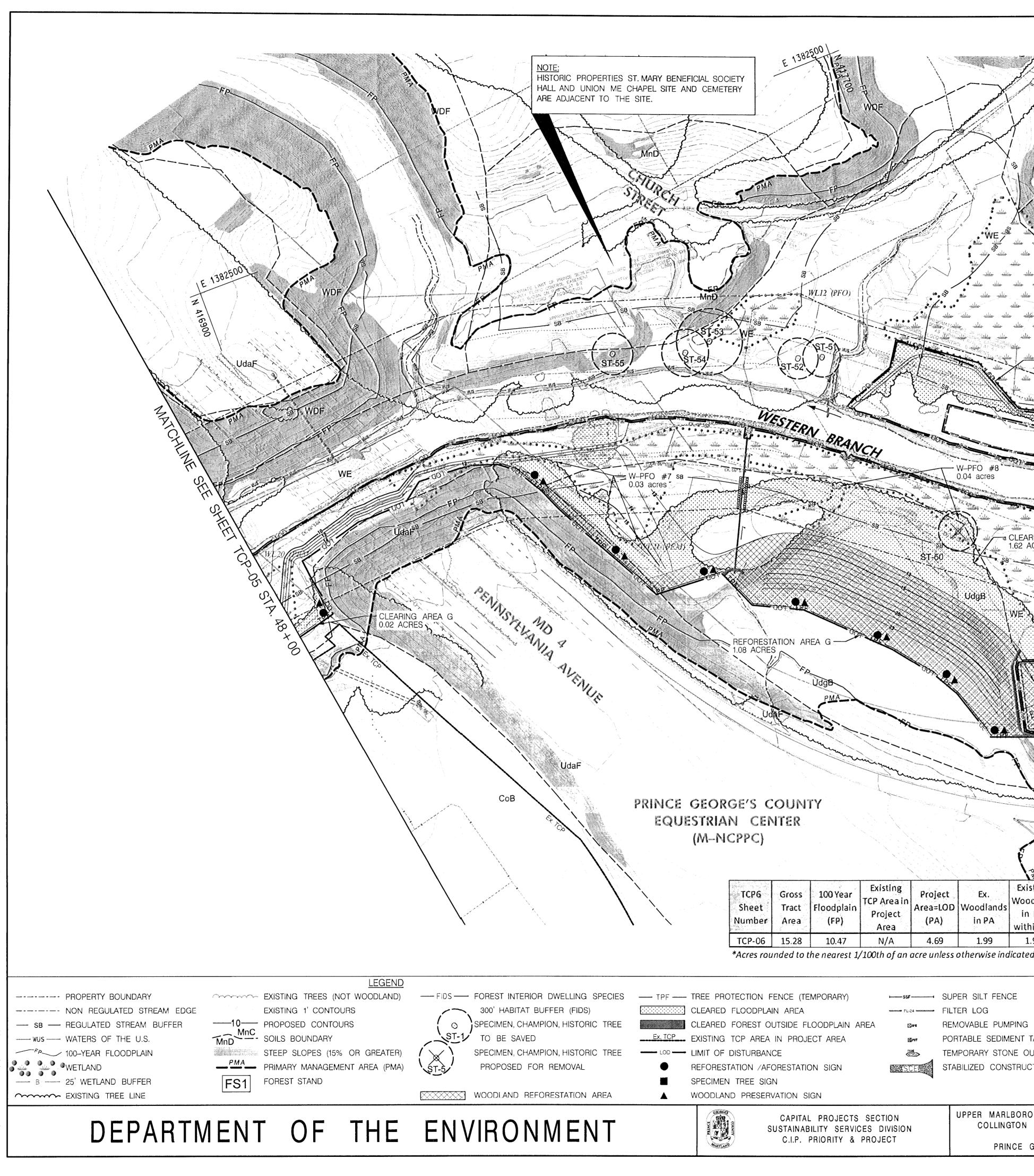
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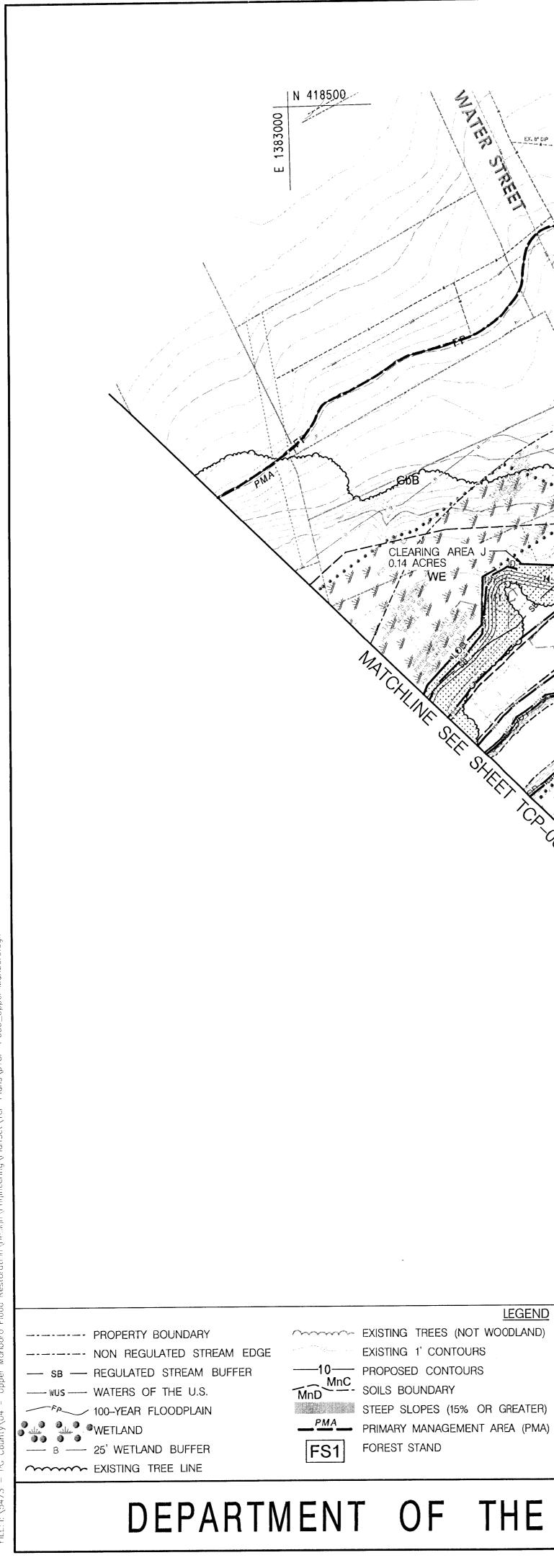
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STATION TANK	60' 0	60' 120'	McCo	TCP-06	SCALE: 1"=60'	Dwt	G. 06 OF 11
OUTLET STRUCTURE		ALE: 1" = 60' D 83 /91 Horizontal	509 South Exeter Stra 4th Floor	or	APPROVED <u>SECTION</u> DESIGNED: NMD	HEAD	E
O FLOOD RISK M		88 Vertical	Baltimore, Maryland 2 (410) 662-7400	21202	DESIGNED: NMD DRAWN: CLY CHECKED BY: EBD		C.I.
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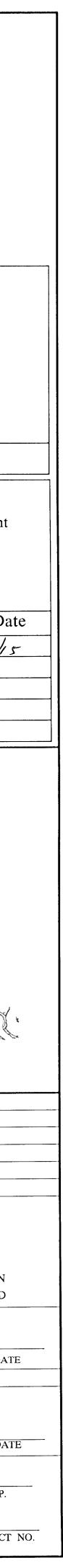


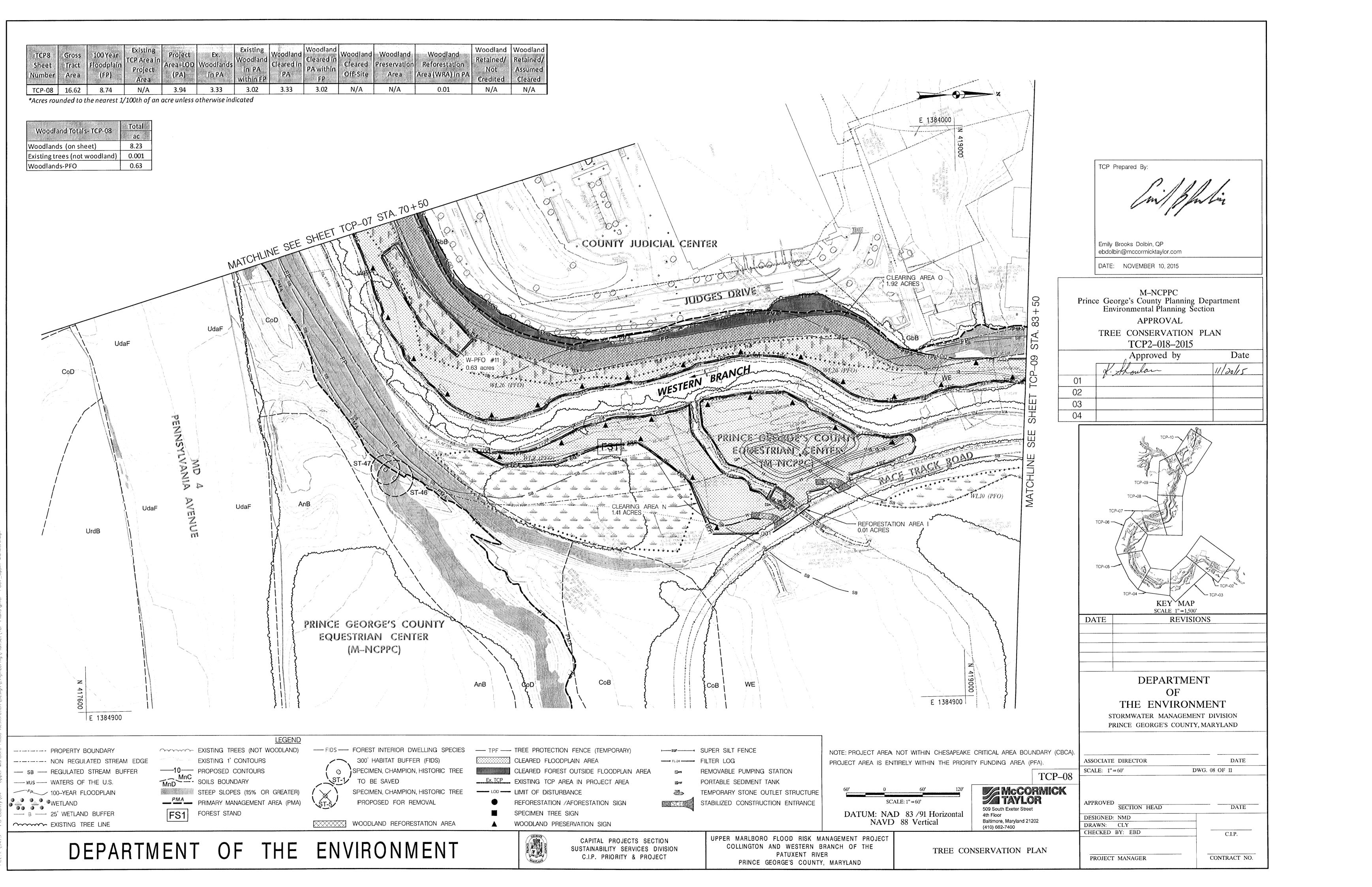
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		Sand Construction
CLEARING AREA L 1.13 ACRES	COUNTY JUDICIAL CENT	ER
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100 100 Summer and States		
	WESTERN BRANCH	W-PFO #95
WL2K (PIM)	Alle The the the second of the	CLEARING 0.08 ACRE
	S (PEM) SB ST-494 SB ST-48 ST-48 ST-48 ST-48 ST-48 ST-48	A DE SUSSE SE
REFORESTATION AREA H	QUESTRIAN CENTER (M-NCPPC)	S AL
WE CLEARING AREA K 0.01 ACRES	CoD PINA STATISTICS AND AVENUE	
Udar	Here we have a solution of the	
	R	N 4
Total	TCP7 Gross 100 Year Existing Project TCP Area in Line Line Line Line Line Line Line L	Ex. Existing V Woodland
Woodland Totals-TCP-07Total acWoodlands (on sheet)3.44Existing trees (not woodland)0.01Woodlands-PFO0.20	SheetTractFloodplainProjectArea=LODWeNumberArea(FP)Area(PA)WeTCP-0727.227.13N/A2.91*Acres rounded to the nearest 1/100th of an acre unless oth	in PA in PA 1.36 1.15
ND)FIDS FOREST INTERIOR DWELLING SPECIES TPF	TREE PROTECTION FENCE (TEMPORARY)	JPER SILT FENCE
	CLEARED FOREST OUTSIDE FLOODPLAIN AREA S= RE	LTER LOG EMOVABLE PUMPING ST
PMA)     SPECIMEN, CHAMPION, HISTORIC TREE     LOD       PROPOSED FOR REMOVAL     O	LIMIT OF DISTURBANCE	ORTABLE SEDIMENT TAN EMPORARY STONE OUTL FABILIZED CONSTRUCTIC
	WOODLAND PRESERVATION SIGN	UPPER MARLBORO F
E ENVIRONMENT	SUSTAINABILITY SERVICES DIVISION C.I.P. PRIORITY & PROJECT	COLLINGTON AN PRINCE GEC

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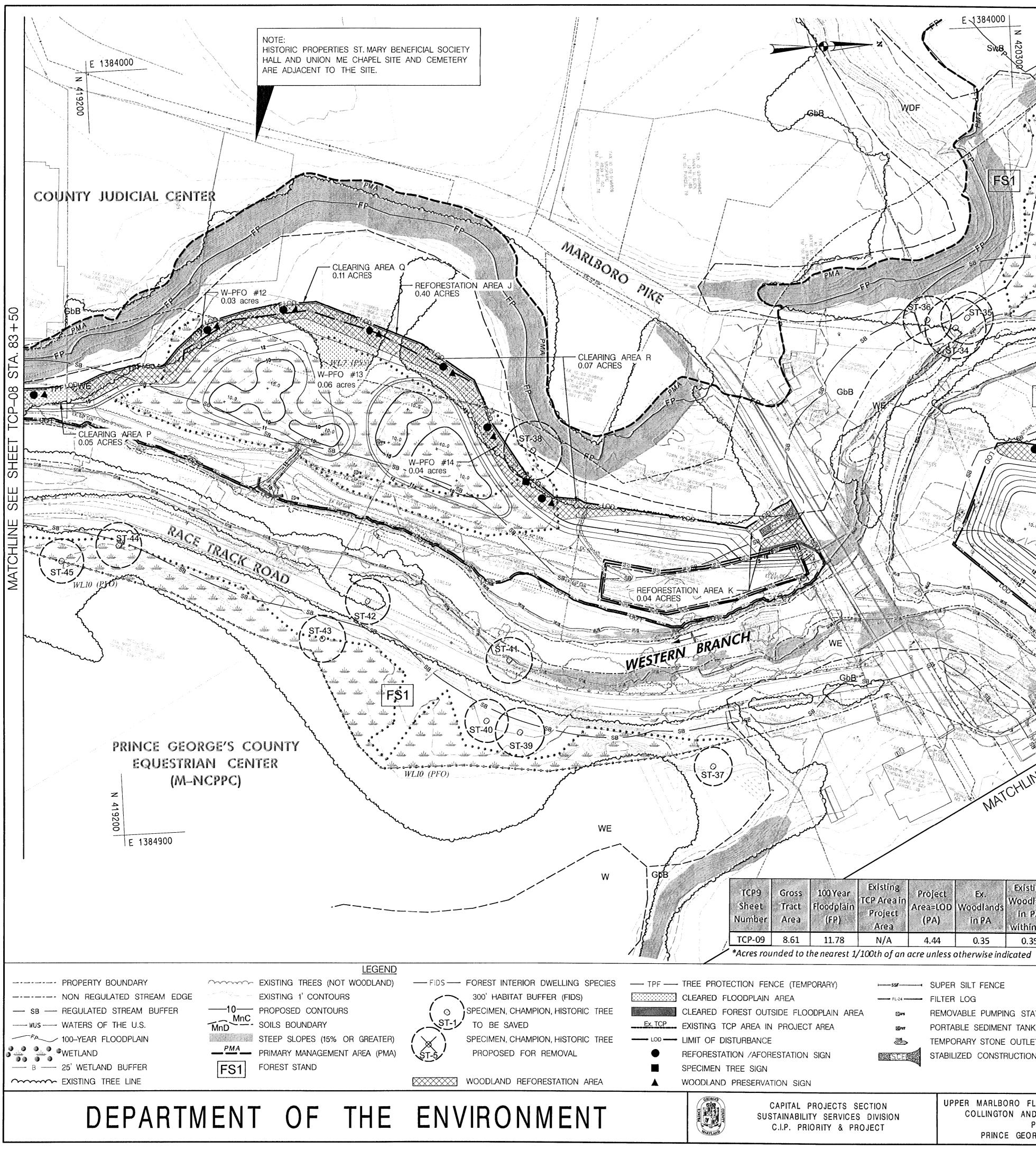
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C GÓB			e D	mily Brooks Dolbin, QP bdolbin@mccormicktaylor.com ATE: NOVEMBER 10, 2015 M–NCPPC George's County Planning Environmental Planning S	g Department
SB SB	i SER SHEET			Environmental Planning S APPROVAL TREE CONSERVATION TCP2-018-2015 Approved by	PLAN
RING AREA M	TCP-08 STA. 70		01 02 03 04	TCP-10	
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nd Cleared in PA Cleared in Cleared Pres PA FP 1.36 1.15 N/A	Area (WRA) in PA N/A 0.01	Retained/ NotRetained/ AssumedCreditedClearedN/AN/AN/AN/A	CBCA).	OF THE ENVIRON STORMWATER MANAGEM PRINCE GEORGE'S COUNT	NMENT ent division
G STATION TANK OUTLET STRUCTURE JCTION ENTRANCE DATUM: NA	$\frac{60^{\circ}}{220^{\circ}}$ CALE: 1" = 60' $\frac{120^{\circ}}{20}$ $\frac{120^{\circ}}{20}$ $\frac{120^{\circ}}{20}$ $\frac{120^{\circ}}{20}$ $\frac{120^{\circ}}{20}$ $\frac{120^{\circ}}{20}$		ASSOC SCALE	OVED <u>SECTION HEAD</u> NED: NMD	DWG. 07 OF 11
I RO FLOOD RISK MANAGEMENT PROJECT N AND WESTERN BRANCH OF THE PATUXENT RIVER GEORGE'S COUNTY, MARYLAND	TREE CO	NSERVATION PLAN		KED BY: EBD	C.I.P.





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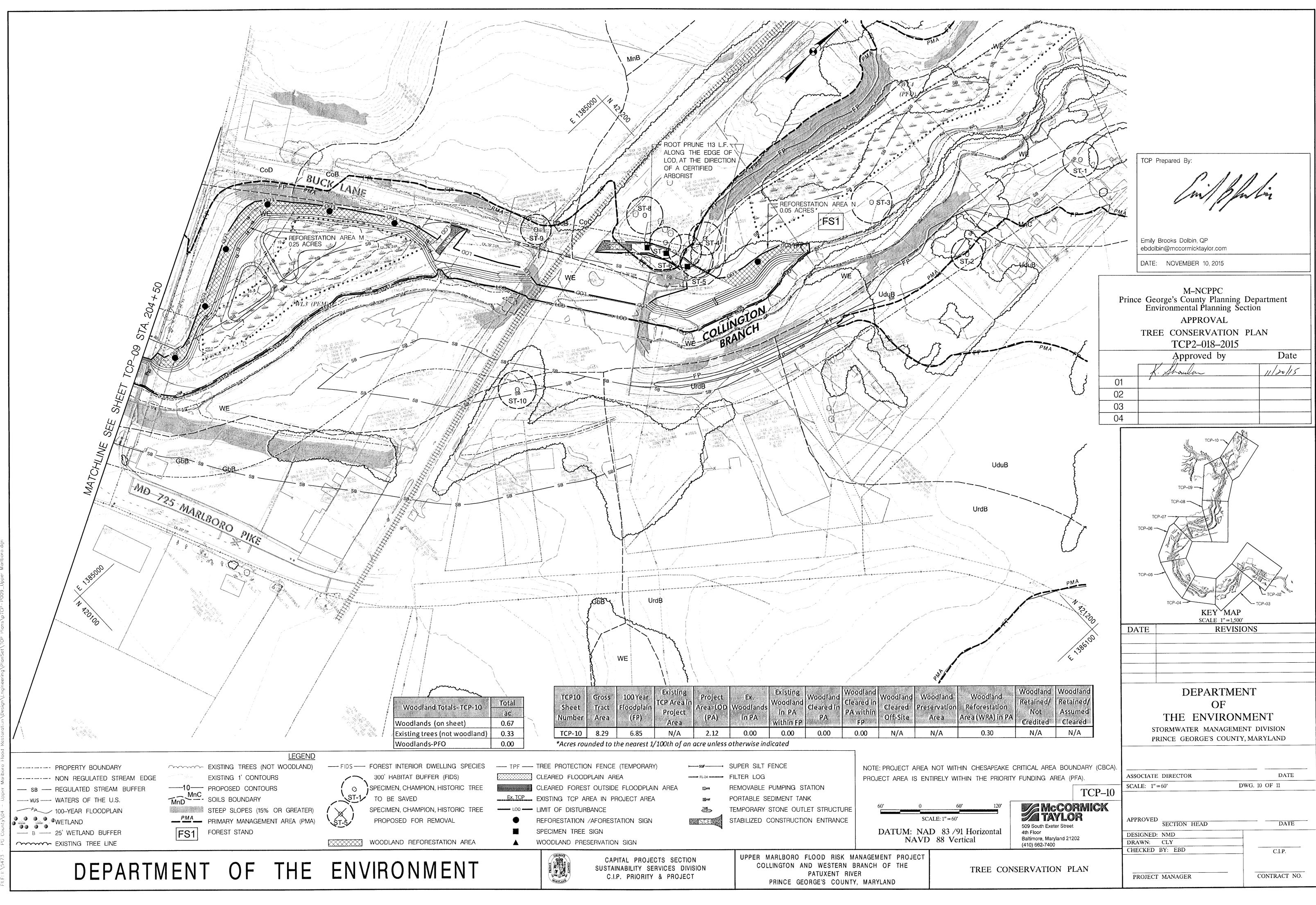


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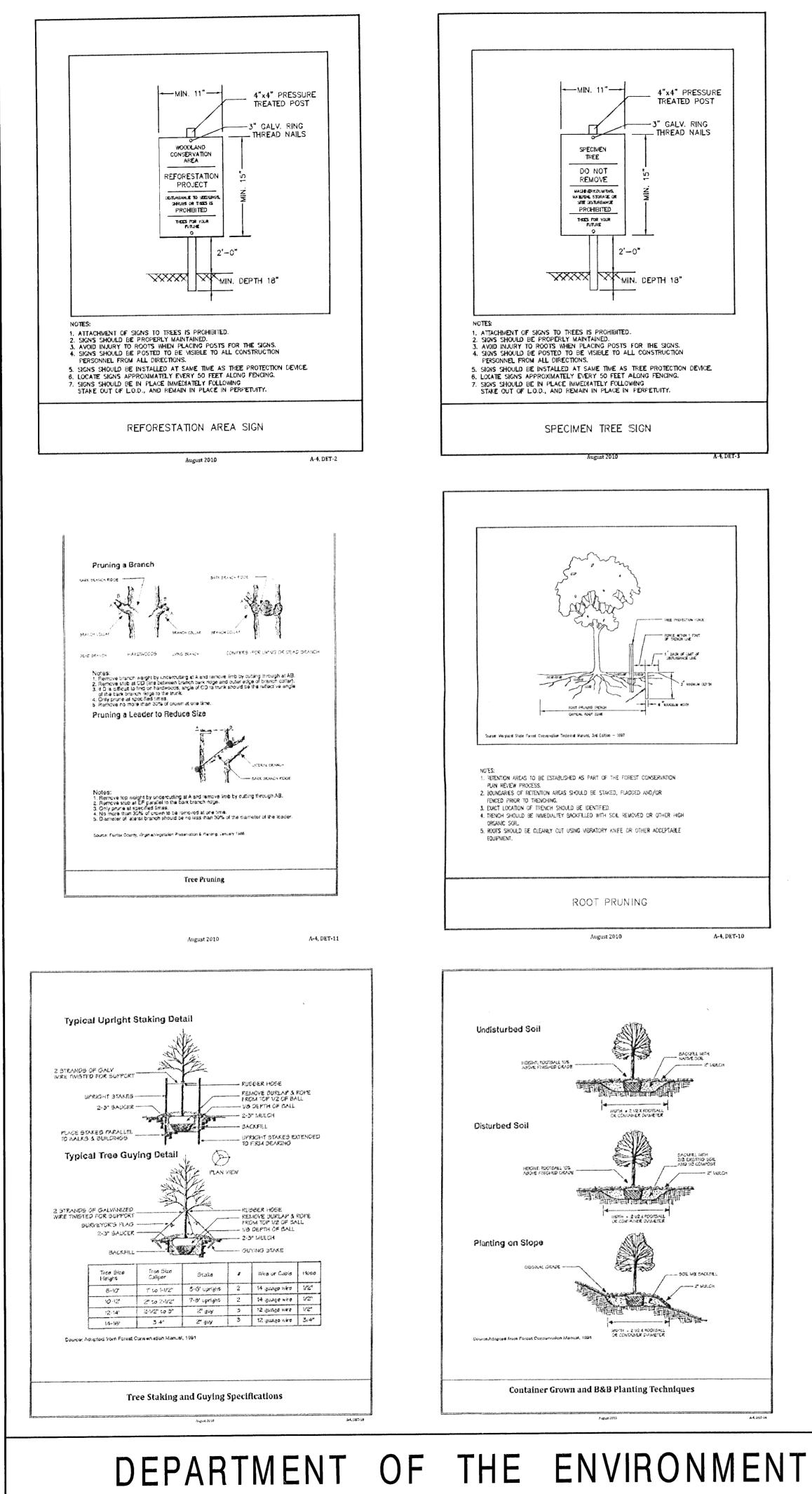
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WE WE WE WE WE WE WE WE WE WE	(PFO)	a Marine Admin		TCP	Prepared By:	
ST-33	ST31				Brooks Dolbin, QP bin@mccormicktaylor.com NOVEMBER 10, 2015 M-NCPPC	Intri
FS1 SB COT	REFORESTA 0.07 ACRES	TION AREA L WL2 (PFO)			orge's County Planning vironmental Planning APPROVAL EE CONSERVATIO TCP2-018-201 Approved by	N PLAN
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lland Cleared in Cl	oodland eared in A within FP 0.35 N/A	Woodland Woodla Preservation Reforest: Area Aréa (WRA N/A 0.51	and Ation ) in PA Credited Woodland Retained/ Retained Assume Credited Cleared	d d f ST	DEPARTM OF THE ENVIRO ORMWATER MANAGEN INCE GEORGE'S COUN	NMENT 1ent division
	OJECT AREA IS ENTIF		CRITICAL AREA BOUNDARY (CE Y FUNDING AREA (PFA). TCP- MCCORMICE 509 South Exeter Street 4th Floor Baltimore, Maryland 21202 (410) 662-7400	ASSOCIATE SCALE: 1" = APPROVED DESIGNED: DRAWN:	60' SECTION HEAD NMD CLY	DATE DWG. 09 OF 11 DATE DATE
LOOD RISK MANAG D WESTERN BRANG PATUXENT RIVER PRGE'S COUNTY, MA	CH OF THE	TREE CON	ISERVATION PLAN	CHECKED PROJECT	BY: EBD MANAGER	C.I.P.

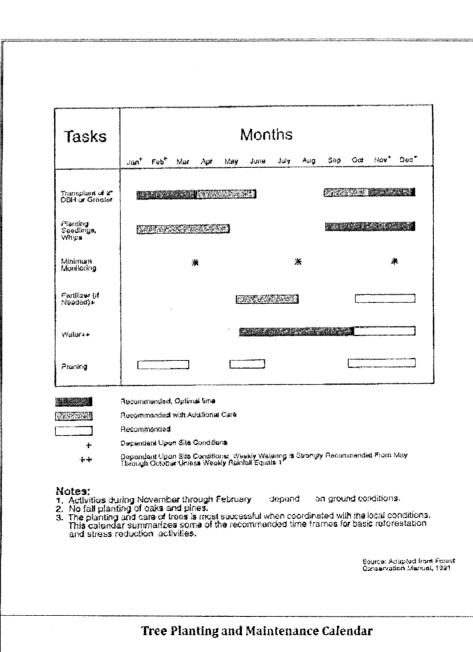




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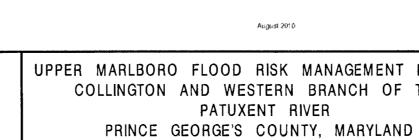






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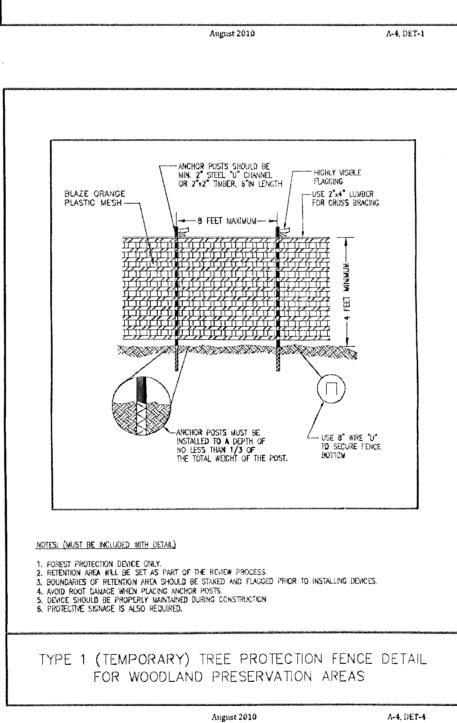


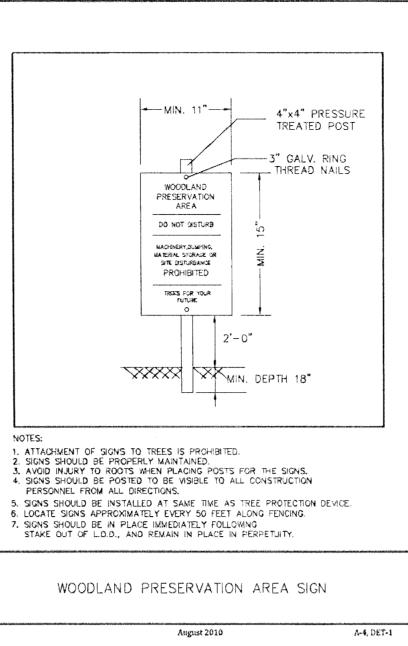
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CAPITAL PROJECTS SECTION

SUSTAINABILITY SERVICES DIVISION C.I.P. PRIORITY & PROJECT

Typical Folest file	10
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Note: Naturally occurring popula is really a mosaic of differe is to select the appropriate patterns. Source: Pithes Georges County Woods Aggregate Distribut	0 5. Ođ
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Pla	n





PLANTING SCHEDULE-WOODLAND REFORESTATION AREA									
ZONE	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	COMMENTS			
RIPARIAN TREE AND SHRUB ZONE	105	BETULA NIGRA	RIVER BIRCH	1" CAL	B&B	PLANT 12' O.C.			
RIPARIAN TREE AND SHRUB ZONE	105	NYSSA SYILVATICA	BLACK GUM	1" CAL	B&B	PLANT 12' O.C.			
RIPARIAN TREE AND SHRUB ZONE	105	CORNUS FLORIDA	FLOWERING DOGWOOD	1" CAL	B&B	PLANT 12' 0.C.			
RIPARIAN TREE AND SHRUB ZONE	105	ILEX OPACA	AMERICAN HOLLY	1" CAL	B&B	PLANT 12' O.C.			
RIPARIAN TREE AND SHRUB ZONE	315	PHOTINIA PYRIFOLIA	RED CHOKEBERRY	2'-3' HT	3 GAL. CONT.	PLANT 8' O.C.			
RIPARIAN TREE AND SHRUB ZONE	315	VIBURNUM DENTATUM	SOUTHERN ARROWWOOD	2'-3' HT	3 GAL CONT.	PLANT 8' O.C.			
RIPARIAN TREE AND SHRUB ZONE	315	AMELANCHIEIR ARBOREA	COMMON SERVICEBERRY	2'-3' HT	3 GAL. CONT.	PLANT 8' O.C.			

PLANTING SPECIFICATION NOTES

- cannot be planted immediately after deliv
- do not have an abundance of well-develo
- 3. Plant Quality Standards: The plants selected shall be healthy and sturdy representatives of their species. Plants that

- 1. Quantity: See plant schedule 2. Type: See plant schedule

	PLANTING SCHEDUL	E-WOODLAND REFOR	ESTATION AREA	
			0175	

## PLANTING NOTES

<ol> <li>Plant Quality standards: The plants selected shall be heating and study representatives of their species. Plants due not have an abundance of well-developed terminal buds on the leaders and branches shall be rejected. If plant cannot be planted immediately after delivery to the reforestation site, they shall be stored in the shade with the root masses protected from direct exposure to the sun and wind by use of straw, peat moss, compost, or other suitable material and shall be maintained through periodic watering, until the time of planting.</li> <li>Timing of Planting: No planting shall be done while ground is frozen. Planting shall occur within one growing seas of the issuance of grading permits and/or reaching the final grades and stabilization of planting areas.</li> <li>Spacing: See plant schedule and details for spacing requirements.</li> <li>Soil: Upon the completion of all grading operations, a soil test shall be conducted to determine what soil prepara and soil amendments, if any, are necessary to create good tree growing conditions. Soil samples shall be talken a rate that provides one soil sample for each area that appears to have a different soil type, and submitted for test to a private company. The company of choice shall make recommendations for improving the existing soil. The swill be tested and recommended for corrections of soil texture, pH, magnesium, phosphorus, potassium, calcium and organic matter.</li> <li>Soil Improvement Measures: The soil shall be improved according to the recommendations made by the testing company.</li> <li>Fencing and Signage: Final protective fencing will not be installed on this project. Signs shall be posted per the signage detail in this plan.</li> <li>Planting Method: Consult the Planting Details shown on this plan.</li> <li>Mulching: Apply a two-inch thick (or greater) layer of woodchip or shredded hardwood mulch to each planting s (see detail shown on the plan).</li> <li>Survival Check for Bond Release: The tree p</li></ol>	nts eir Ison ation at a ting soil n			TCP Prepared By:	Shi
12. Source of Plant Material: TBD				Emily Brooks Dolbin, QP	
			ŀ	ebdolbin@mccormicktaylor.com DATE: NOVEMBER 10, 2015	
			Prince	M–NCPPC e George's County Plann Environmental Planning APPROVAL TREE CONSERVATIO TCP2–018–20	g Section ON PLAN
				Approved by	Date
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		-	01 02		
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Typical Forest Tree Distribution Patterns			04		
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<ul> <li>Is to be a choice of the precise and distribution pattern for a choice site that refine chatural patterns.</li> <li>Source: Pitree George County Wootland Countrated</li> <li>Aggregate Distribution Drift</li> <li>When used, plant cluster type groupings that upper or feather out along the edges. Chasters often appear as elongabed or toar drop shapes.</li> <li>Source: Box in a</li> <li>Source:</li></ul>				DEPARTN OF THE ENVIRO STORMWATER MANAG PRINCE GEORGE'S COU	ONMENT ement division
Barimeter di Perorestation vanorestation plantings di wrips, seedang grown stock Protective Fencing • Smaller Stock Source: Adapted from Porest Contervation Manuer, 1801		TCP-	SCAI	DCIATE DIRECTOR LE: AS NOTED	DATE DWG. 11 OF 11
Planting Distribution Patterns		509 South Exeter Street	6	ROVED SECTION HEAD	DATE
August 2010 A.4, DET-12		4th Floor Baltimore, Maryland 21202 (410) 662-7400	DRA	IGNED: NMD WN: CLY	
UPPER MARLBORO FLOOD RISK MANAGEMENT PROJECT COLLINGTON AND WESTERN BRANCH OF THE PATUXENT RIVER	TREE CONSERV	VATION PLAN DETAILS	s	CKED BY: EBD ROJECT MANAGER	C.I.P.

