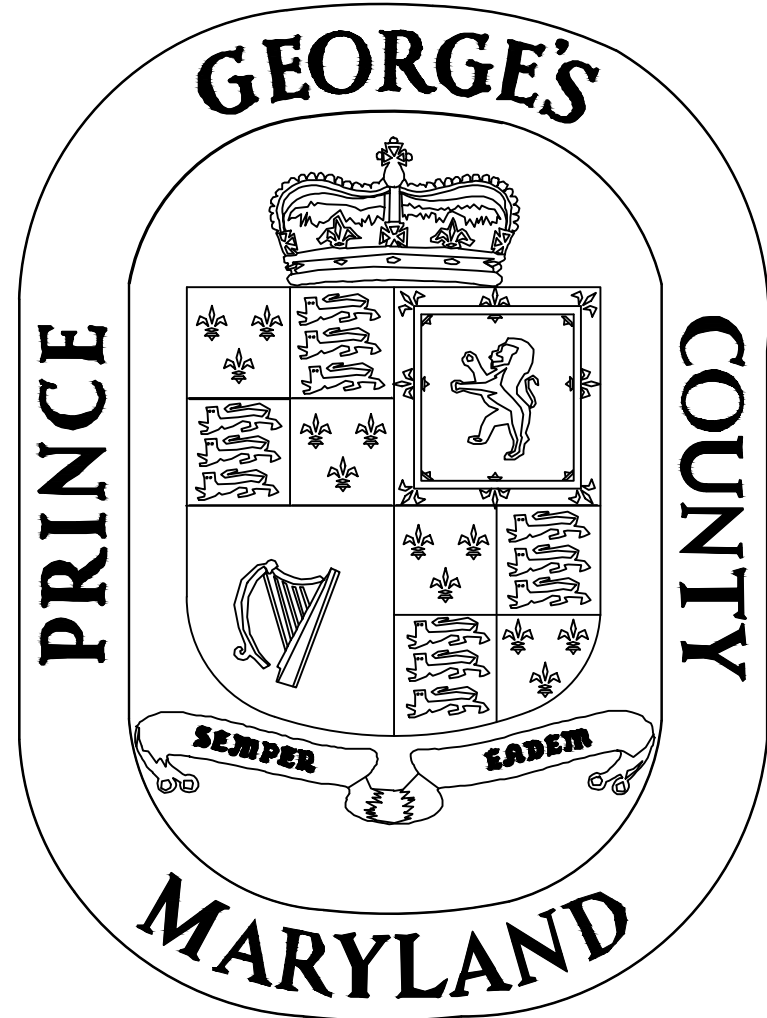
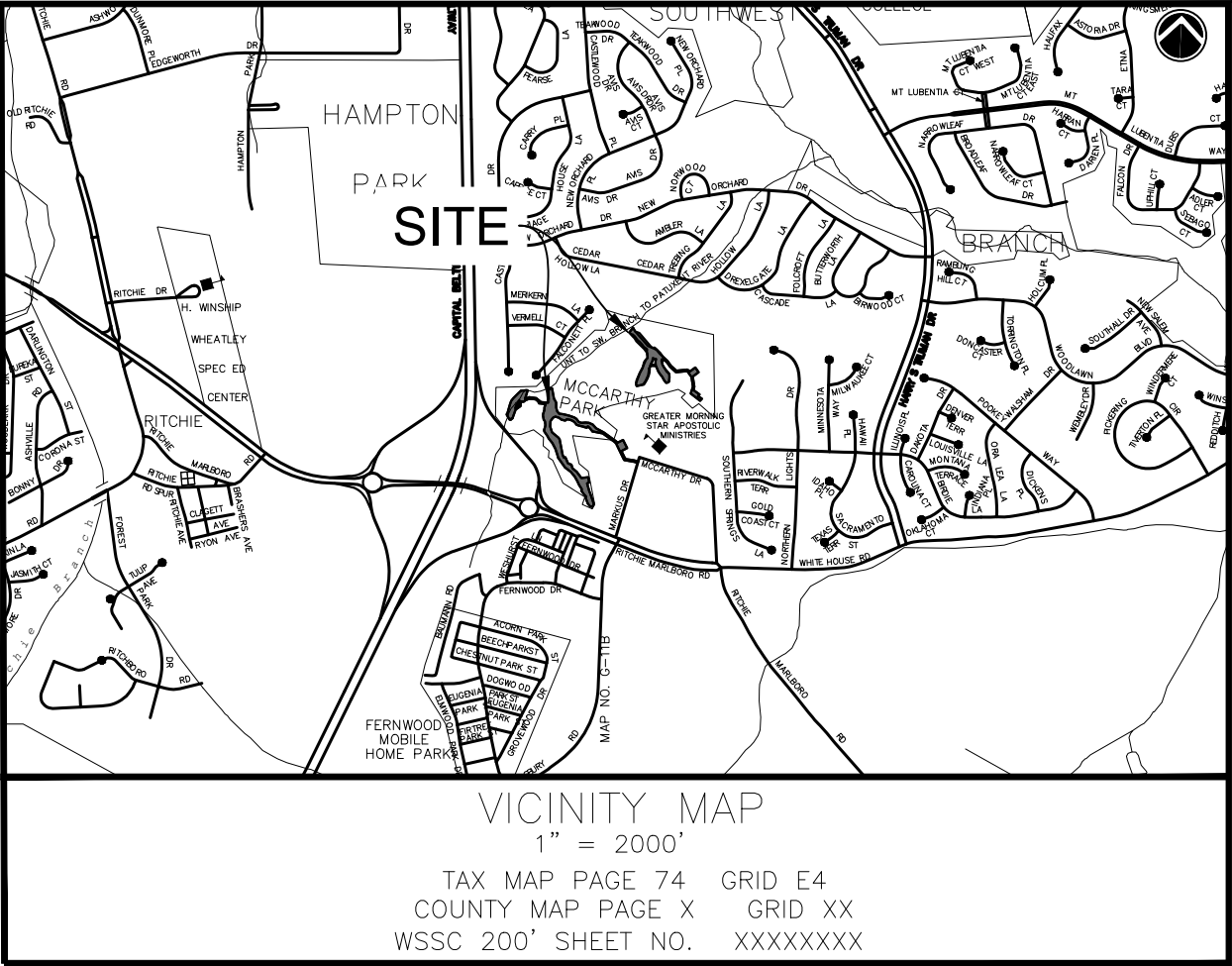




PRINCE GEORGE'S COUNTY, MARYLAND
1801 McCORMICK DRIVE, SUITE 500
LARGO, MARYLAND 20774

TREE CONSERVATION PLAN 2 FOR
McCARTHY PARK STREAM RESTORATION PROJECT (S-29)
LARGO, MARYLAND
COUNTY COUNCIL DISTRICT 6
COUNTY COUNCIL PERSON: DERRICK DAVIS



Woodland Conservation Summary Table											
Sheet	Gross Tract Area (AC)	100-Year Floodplain (FP) (AC)	Net Tract Area (NTA) (AC)	Ex. Woodland (NTA) (AC)	Ex. Woodland (FP) (AC)	Woodland Cleared Floodplain (C-FP) (AC)	Woodland Cleared Net-Tract (C-NTA) (AC)	Woodland Cleared Off-site (C-OS) (AC)	Woodland Preserv. Area (WPA) (AC)	Woodland Reforest. Area (WRA) (AC)	Woodland Retained / Not Credited (WR-NC) (AC)
TCP2-1	0.33	0.00	0.33	0.02	0.00	0.00	0.02	-	-	0.02	-
TCP2-2	0.41	0.003	0.40	0.37	68.00	0.00	0.37	-	-	0.39	-
TCP2-3	0.82	0.72	0.10	0.10	0.56	0.56	0.10	-	-	0.63	-
TCP2-4	0.61	0.60	0.01	0.01	0.46	0.46	0.01	-	-	0.40	-
TCP2-5	0.78	0.14	0.64	0.61	4528.00	0.10	0.61	-	-	0.71	-
TCP2-6	0.68	0.00	0.68	0.59	0.00	0.00	0.59	-	-	0.61	-
TCP2-7	0.22	0.00	0.22	0.20	0.00	0.00	0.20	-	-	0.22	-
TCP2-8	0.76	0.17	0.59	0.57	6109.00	0.14	0.57	-	-	0.71	-
TCP2-9	0.85	0.00	0.85	0.81	0.00	0.00	0.81	-	-	0.81	-
TCP2-10	0.30	0.00	0.30	0.38	0.00	0.00	0.38	-	-	0.30	-
TCP2-11	0.19	0.00	0.19	0.00	0.00	0.00	0.00	-	-	0.02	-
Total	5.94	1.63	4.31	3.47	1.26	1.26	3.47	-	-	4.81	-



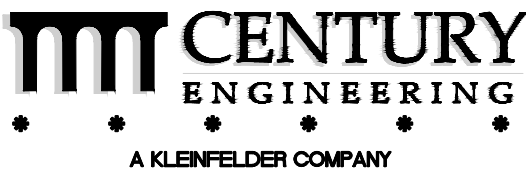
PROJECT KEY MAP
1" = 500'

Forest Conservation Act Reporting Information (Change Table)				
	Original Approval	Revision Number (-01)	Revision Number (-02)	Change Since Last Approval
Net Tract (Acres)	4.31			
Existing Woodland (Acres)	4.73			
Woodland Cleared (Acres)	4.73			
Woodland Retained On-Site (Acres)	0			
Woodland Planted On-Site (Acres)	0			
On-Site Woodland Easement/ Preservation and Planting (Acres)	0			
On-Site Wooded Floodplain in Easement (Acres)	0			
Bond Amount	0			
Fee-In-Lieu Amount	0			
50' Stream Buffers Conserved (Preservation) - Linear Length	0			
50' Stream Buffers Conserved (Preservation) - Acreage	0			
50' Stream Buffers Newly Established (Afforestation) - Linear Length	644			
50' Stream Buffers Newly Established (Afforestation) - Acreage	0.39			
Off-Site Woodland Conservation Credits Required (Acres)	0			
Off-Site Woodland Conservation Credits Provided (Acres)	0			

PROPERTY OWNERS AWARENESS
CERTIFICATE: The Maryland-National Capital
Park and Planning Commission
I/We
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.
Jennifer Bruneau
Owner or Owner's Representative
Dec 4, 2023
Date
jennifer.bruneau@gpparks.com

PROPERTY OWNERS AWARENESS
CERTIFICATE: I/We
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.
Charles E. Simeon, Sr.
Owner or Owner's Representative
Date
10/13/2023

DWG. 1 OF 14



10710 GILROY ROAD, HUNT VALLEY, MD 21031
PHONE: 443-589-2400

TYPE 2 TREE CONSERVATION (TCP2) PLAN
APPROVAL BLOCK

Prince George's County Planning Department, M-NCPPC Environmental Planning Section TYPE 2 TREE CONSERVATION PLAN APPROVAL TCP2-043-2022				
Approved by	Date	DRD #	Reason for Revision	
00 Mary Rea	12/7/2023		N/A	
01				
02				
03				
04				
05				

DEPARTMENT OF THE ENVIRONMENT



CAPITAL PROJECTS SECTION
STORMWATER MANAGEMENT
DIVISION

McCARTHY PARK
STREAM RESTORATION
PRINCE GEORGE'S COUNTY, MARYLAND

TREE CONSERVATION PLAN 2
TITLE SHEET

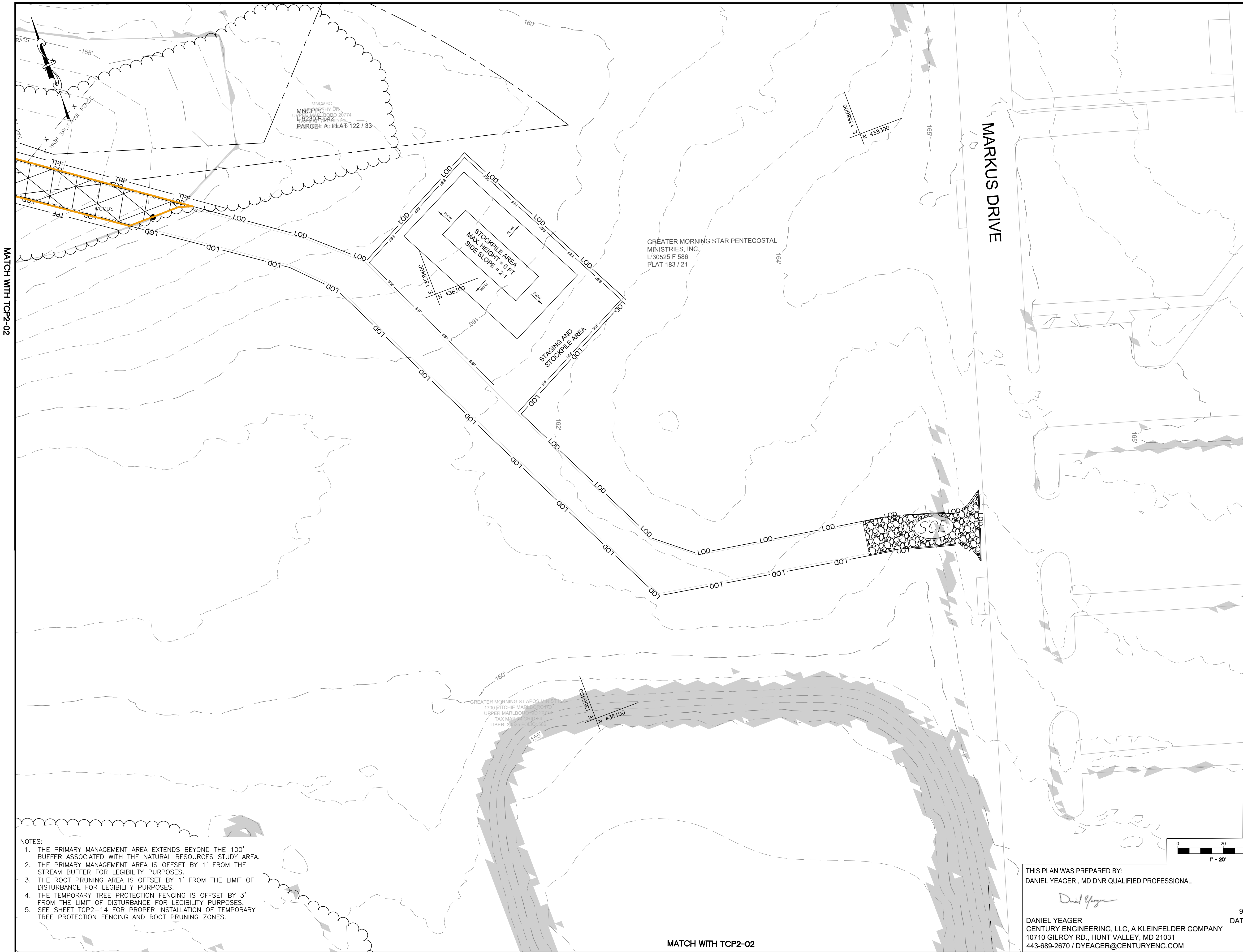
THIS PLAN WAS PREPARED BY:
DANIEL YEAGER, MD DNR QUALIFIED PROFESSIONAL

Daniel Yeager

DANIEL YEAGER
CENTURY ENGINEERING, LLC, A KLEINFELDER COMPANY
10710 GILROY RD., HUNT VALLEY, MD 21031
443-689-2670 / DYEAGER@CENTURYENG.COM

9/22/2023
DATE

MATCH WITH TCP2-02



- NOTES:
1. THE PRIMARY MANAGEMENT AREA EXTENDS BEYOND THE 100' BUFFER ASSOCIATED WITH THE NATURAL RESOURCES STUDY AREA.
 2. THE PRIMARY MANAGEMENT AREA IS OFFSET BY 1' FROM THE STREAM BUFFER FOR LEGIBILITY PURPOSES.
 3. THE ROOT PRUNING AREA IS OFFSET BY 1' FROM THE LIMIT OF DISTURBANCE FOR LEGIBILITY PURPOSES.
 4. THE TEMPORARY TREE PROTECTION FENCING IS OFFSET BY 3' FROM THE LIMIT OF DISTURBANCE FOR LEGIBILITY PURPOSES.
 5. SEE SHEET TCP2-14 FOR PROPER INSTALLATION OF TEMPORARY TREE PROTECTION FENCING AND ROOT PRUNING ZONES.

MATCH WITH TCP2-02

DEPARTMENT OF THE ENVIRONMENT



CAPITAL PROJECTS SECTION
STORMWATER MANAGEMENT
DIVISION

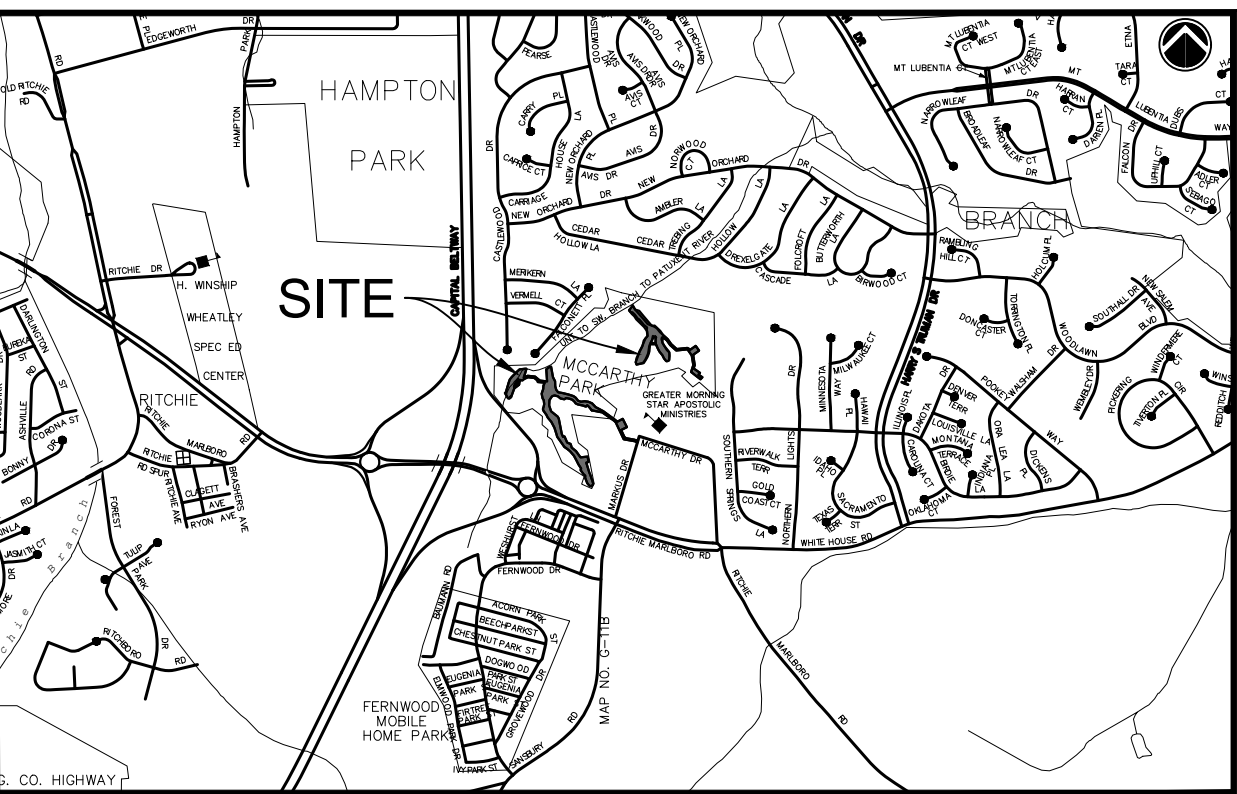
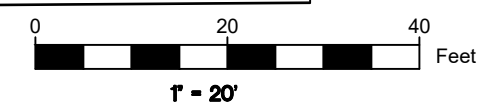
McCARTHY PARK
STREAM RESTORATION
PRINCE GEORGE'S COUNTY, MARYLAND

TREE CONSERVATION PLAN 2
TCP2-01

THIS PLAN WAS PREPARED BY:
DANIEL YEAGER, MD DNR QUALIFIED PROFESSIONAL

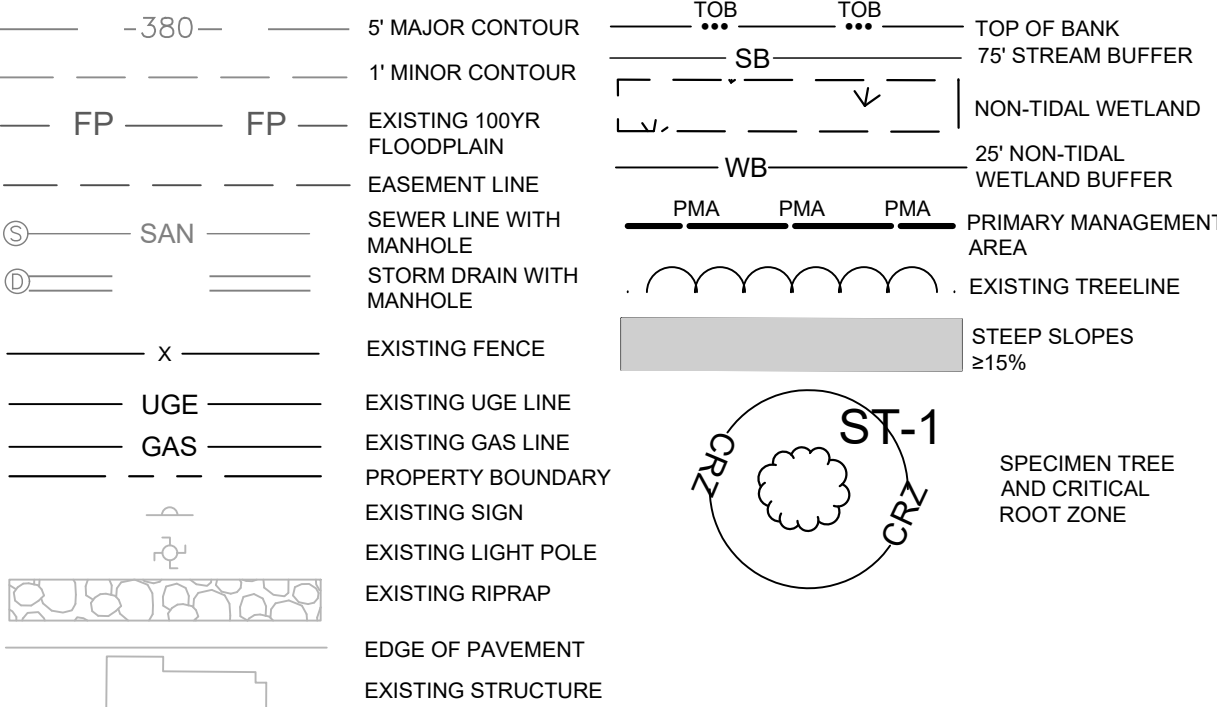
Daniel Yeager
DANIEL YEAGER
CENTURY ENGINEERING, LLC, A KLEINFELDER COMPANY
10710 GILROY RD., HUNT VALLEY, MD 21031
443-689-2670 / DYEAGER@CENTURYENG.COM

9/22/2023
DATE

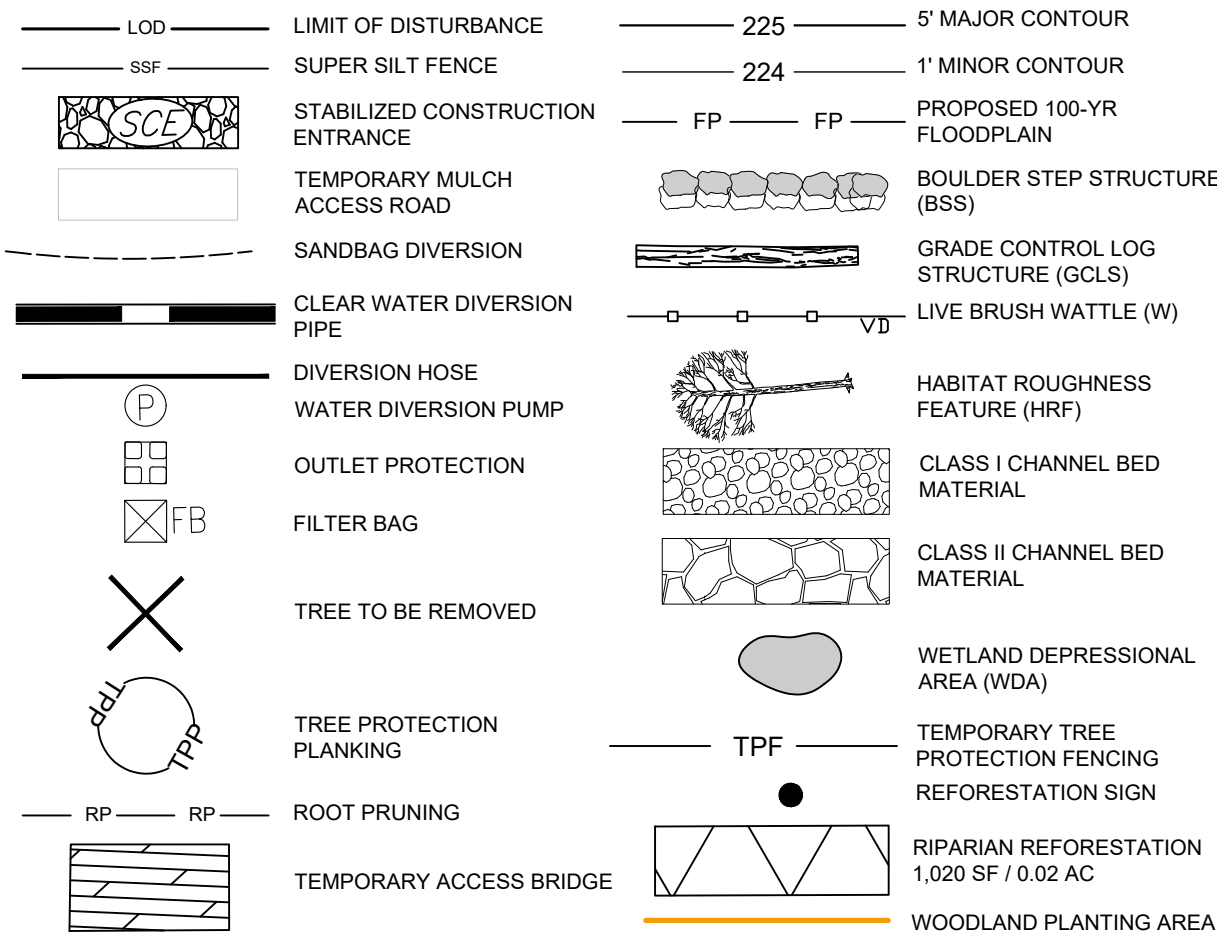


VICINITY MAP
1" = 2000'
TAX MAP PAGE 74 GRID E4
COUNTY MAP PAGE X GRID XX
WSSC 200' SHEET NO. XXXXXXXX

EXISTING FEATURES



PROPOSED FEATURES



REFER TO DETAIL TCP-26 FOR ROOT PRUNING AND TREE PROTECTION FENCING.

PROPERTY OWNERS AWARENESS
CERTIFICATE: The Maryland-National Capital
Park and Planning Commission
I/We
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.
Jennifer Bruneau
Owner or Owner's Representative
Dec 4, 2023
Date
jennifer.bruneau@pgparks.com

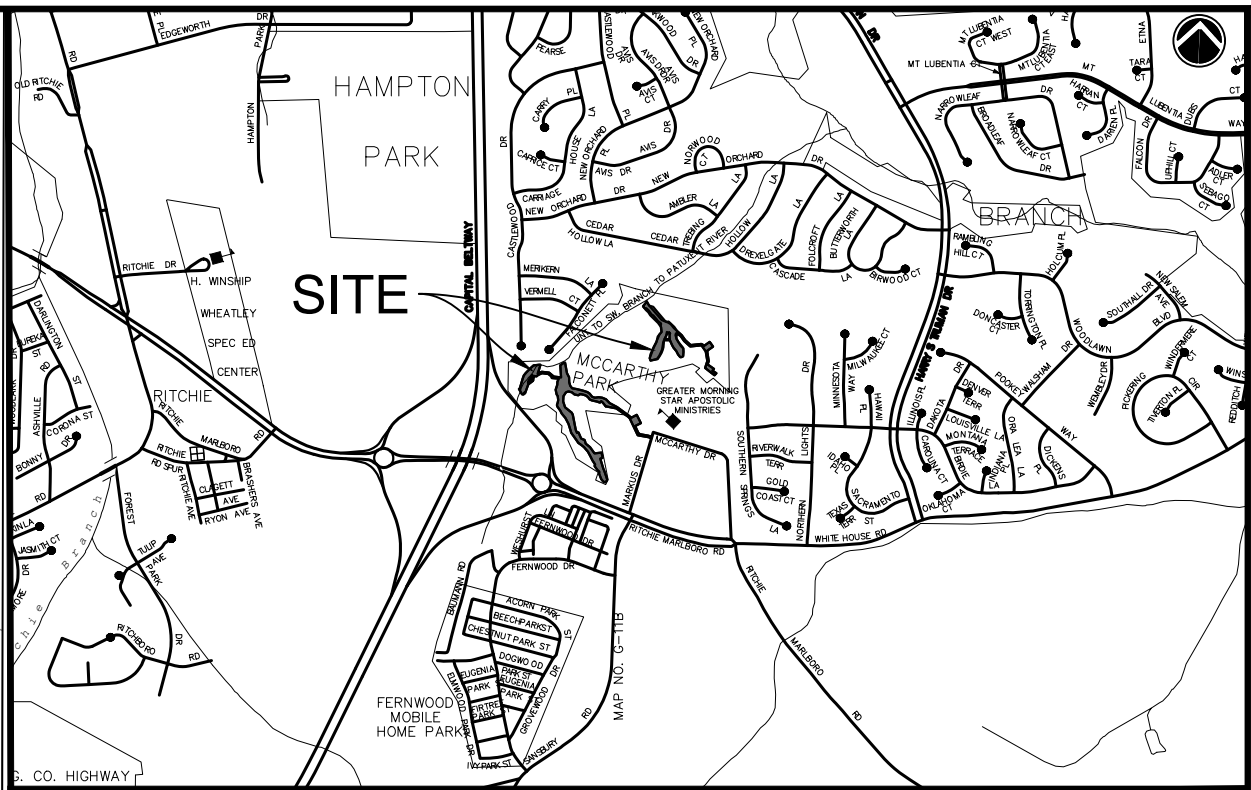
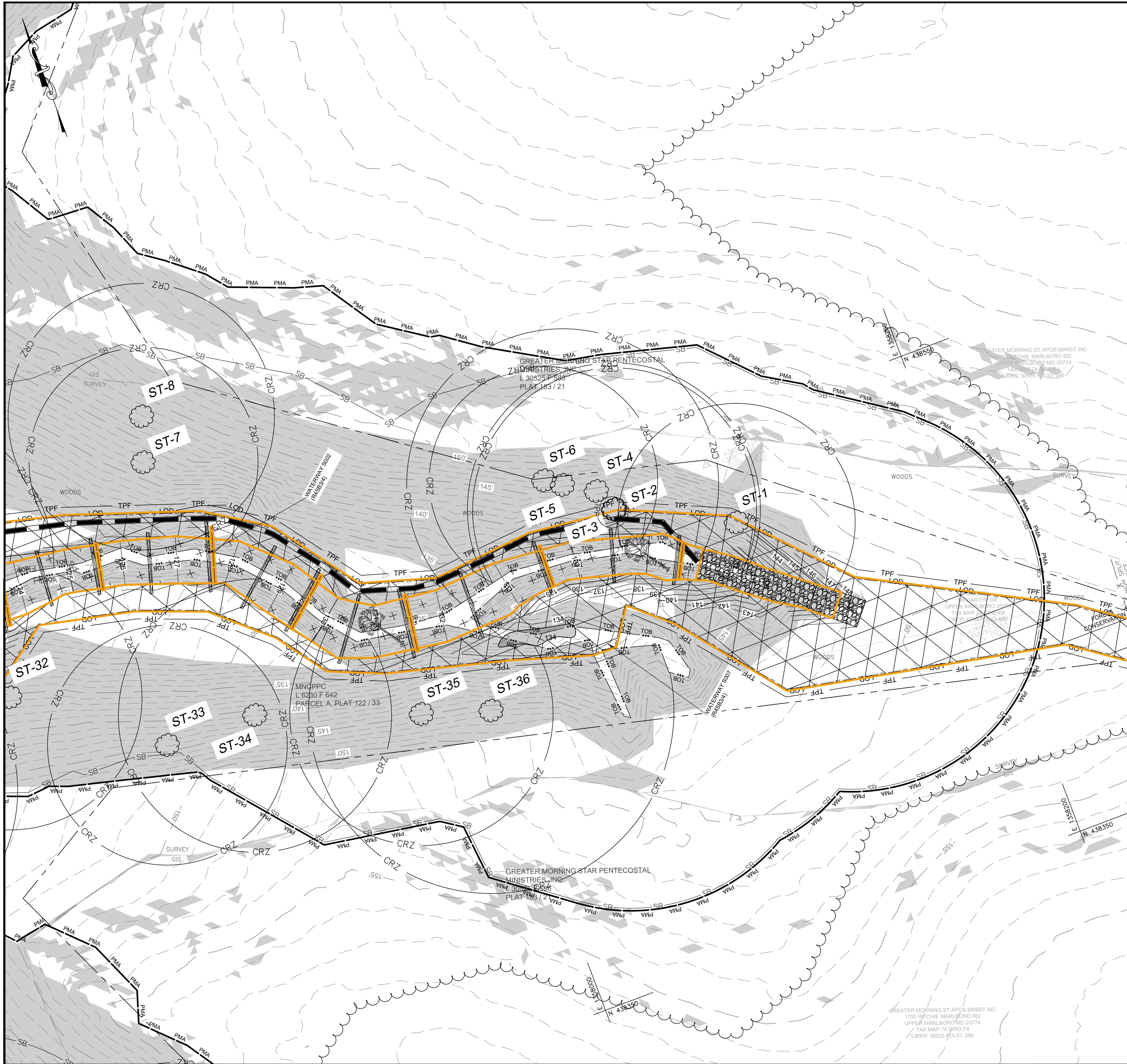
PROPERTY OWNERS AWARENESS
CERTIFICATE:
I/We
hereby acknowledge that we are aware of this Type 2
Tree Conservation Plan (TCP2) and that we
understand the requirements as set forth in this
TCP2.
Date
10/13/2023
DWG. 2 OF 14

CENTURY
ENGINEERING
A KLEINFELDER COMPANY

10710 GILROY ROAD, HUNT VALLEY, MD 21031
PHONE: 443-589-2400

TYPE 2 TREE CONSERVATION (TCP2) PLAN
APPROVAL BLOCK

Prince George's County Planning Department, M-NCPPC Environmental Planning Section TYPE 2 TREE CONSERVATION PLAN APPROVAL TCP2-043-2022				
Approved by	Date	DRD #	Reason for Revision	
00 Mary Res	12/7/2023		N/A	
01				
02				
03				
04				
05				



VICINITY MAP
1" = 2000'
TAX MAP PAGE 74 GRID E4
COUNTY MAP PAGE X GRID XX
WSSC 200' SHEET NO. XXXXXXXX

EXISTING FEATURES	
-380-	5' MAJOR CONTOUR
FP	1' MINOR CONTOUR
FP	EXISTING 100YR FLOODPLAIN
SAN	EASEMENT LINE
X	SEWER LINE WITH MANHOLE
UGE	STORM DRAIN WITH MANHOLE
GAS	EXISTING FENCE
	EXISTING UGE LINE
	EXISTING GAS LINE
	PROPERTY BOUNDARY
	EXISTING SIGN
	EXISTING LIGHT POLE
	EXISTING RIPRAP
	EDGE OF PAVEMENT
	EXISTING STRUCTURE
TOB	TOP OF BANK
SB	75' STREAM BUFFER
WB	NON-TIDAL WETLAND
PMA	25' NON-TIDAL WETLAND BUFFER
	PRIMARY MANAGEMENT AREA
	EXISTING TREELINE
	STEEP SLOPES ≥15%
	SPECIMEN TREE AND CRITICAL ROOT ZONE

PROPOSED FEATURES	
LOD	LIMIT OF DISTURBANCE
SSF	SUPER SILT FENCE
SCS	STABILIZED CONSTRUCTION ENTRANCE
	TEMPORARY MULCH ACCESS ROAD
	SANDBAG DIVERSION
	CLEAR WATER DIVERSION PIPE
	DIVERSION HOSE
	WATER DIVERSION PUMP
	OUTLET PROTECTION
	FILTER BAG
	TREE TO BE REMOVED
	TREE PROTECTION PLANKING
RP	ROOT PRUNING
	TEMPORARY ACCESS BRIDGE
225	5' MAJOR CONTOUR
224	1' MINOR CONTOUR
FP	PROPOSED 100-YR FLOODPLAIN
	BOULDER STEP STRUCTURE (BSS)
	GRADE CONTROL LOG STRUCTURE (GCLS)
	LIVE BRUSH WATTLE (WB)
	HABITAT ROUGHNESS FEATURE (HRF)
	CLASS I CHANNEL BED MATERIAL
	CLASS II CHANNEL BED MATERIAL
	WETLAND DEPRESSORIAL AREA (WDA)
	TEMPORARY TREE PROTECTION FENCING
	REFORESTATION SIGN
	RIPARIAN REFORESTATION 11,595 SF / 0.27 AC
	FLOODPLAIN REFORESTATION 5,193 SF / 0.12 AC
	WOODLAND PLANTING AREA

REFER TO DETAIL TCP-26 FOR ROOT PRUNING AND TREE PROTECTION FENCING.

PROPERTY OWNERS AWARENESS CERTIFICATE

The Maryland-National Capital Park and Planning Commission

I/We 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.

Jennifer Bruneau
Owner or Owner's Representative
Dec 4, 2023
jennifer.bruneau@gpparks.com

10/13/2023

DWG. 3 OF 14

- NOTES:
1. THE PRIMARY MANAGEMENT AREA EXTENDS BEYOND THE 100' BUFFER ASSOCIATED WITH THE NATURAL RESOURCES STUDY AREA.
 2. THE PRIMARY MANAGEMENT AREA IS OFFSET BY 1' FROM THE STREAM BUFFER FOR LEGIBILITY PURPOSES.
 3. THE ROOT PRUNING AREA IS OFFSET BY 1' FROM THE LIMIT OF DISTURBANCE FOR LEGIBILITY PURPOSES.
 4. THE TEMPORARY TREE PROTECTION FENCING IS OFFSET BY 3' FROM THE LIMIT OF DISTURBANCE FOR LEGIBILITY PURPOSES.
 5. SEE SHEET TCP2-14 FOR PROPER INSTALLATION OF TEMPORARY TREE PROTECTION FENCING AND ROOT PRUNING ZONES.

THIS PLAN WAS PREPARED BY:
DANIEL YEAGER, MD DNR QUALIFIED PROFESSIONAL

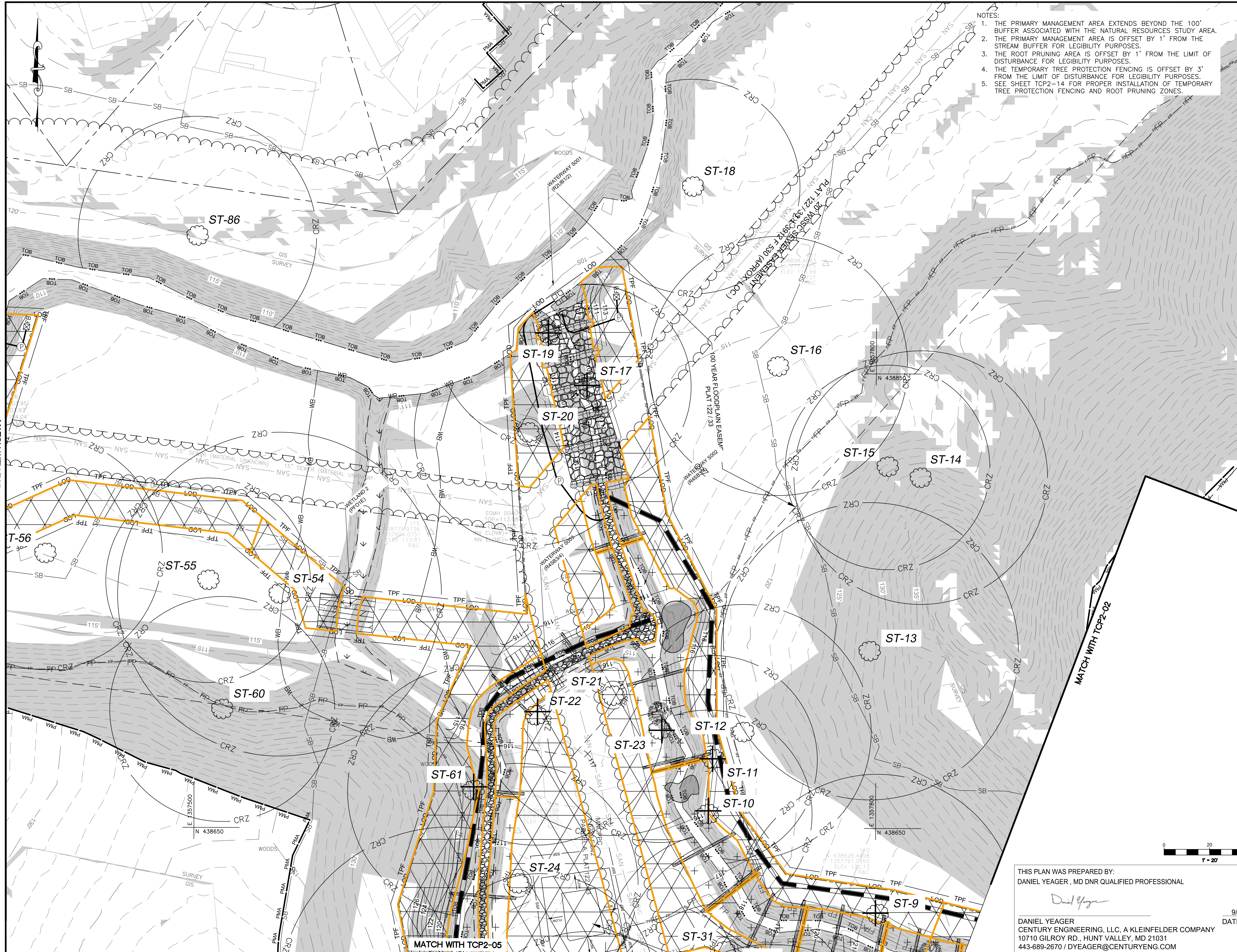
Daniel Yeager

DANIEL YEAGER
CENTURY ENGINEERING, LLC, A KLEINFELDER COMPANY
10710 GILROY RD., HUNT VALLEY, MD 21031
443-689-2670 / DYEAGER@CENTURYENG.COM

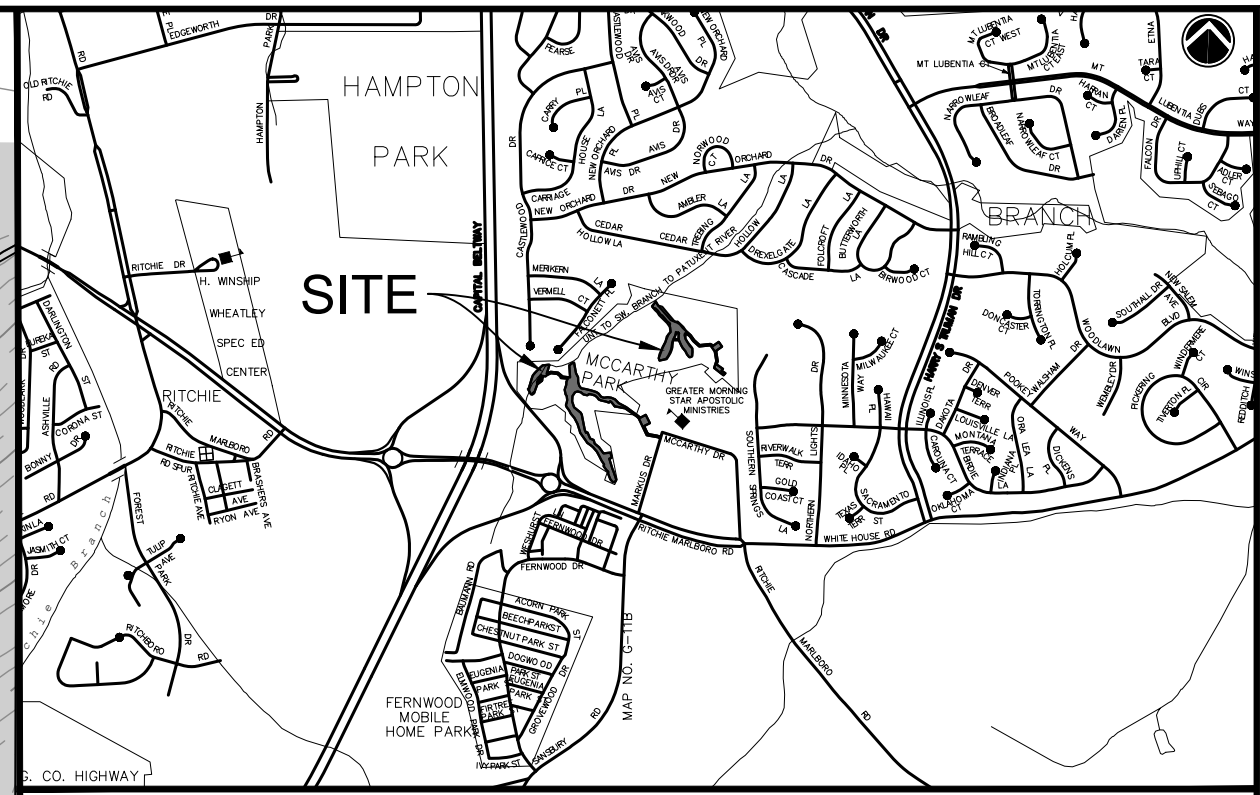
9/22/2023
DATE

CENTURY ENGINEERING
A KLEINFELDER COMPANY
10710 GILROY ROAD, HUNT VALLEY, MD 21031
PHONE: 443-589-2400

TYPE 2 TREE CONSERVATION (TCP2) PLAN APPROVAL BLOCK			
Prince George's County Planning Department, M-NCPPC Environmental Planning Section			
TYPE 2 TREE CONSERVATION PLAN APPROVAL TCP2-043-2022			
Approved by	Date	DRD #	Reason for Revision
00 Mary Res	12/7/2023		N/A
01			
02			
03			
04			
05			



- NOTES:
1. THE PRIMARY MANAGEMENT AREA EXTENDS BEYOND THE 100' BUFFER ASSOCIATED WITH THE NATURAL RESOURCES STUDY AREA.
 2. THE PRIMARY MANAGEMENT AREA IS OFFSET BY 1' FROM THE STREAM BUFFER FOR LEGIBILITY PURPOSES.
 3. THE ROOT PRUNING AREA IS OFFSET BY 1' FROM THE LIMIT OF DISTURBANCE FOR LEGIBILITY PURPOSES.
 4. THE TEMPORARY TREE PROTECTION FENCING IS OFFSET BY 3' FROM THE LIMIT OF DISTURBANCE FOR LEGIBILITY PURPOSES.
 5. SEE SHEET TCP2-14 FOR PROPER INSTALLATION OF TEMPORARY TREE PROTECTION FENCING AND ROOT PRUNING ZONES.



VICINITY MAP
1" = 2000'
TAX MAP PAGE 74 GRID E4
COUNTY MAP PAGE X GRID XX
WSSC 200' SHEET NO. XXXXXXXX

EXISTING FEATURES

- 5' MAJOR CONTOUR
- 1' MINOR CONTOUR
- EXISTING 100YR FLOODPLAIN
- EASEMENT LINE
- SEWER LINE WITH MANHOLE
- STORM DRAIN WITH MANHOLE
- EXISTING FENCE
- EXISTING UGE LINE
- EXISTING GAS LINE
- PROPERTY BOUNDARY
- EXISTING SIGN
- EXISTING LIGHT POLE
- EXISTING RIPRAP
- EDGE OF PAVEMENT
- EXISTING STRUCTURE

PROPOSED FEATURES

- LIMIT OF DISTURBANCE
- SUPER SILT FENCE
- STABILIZED CONSTRUCTION ENTRANCE
- TEMPORARY MULCH ACCESS ROAD
- SANDBAG DIVERSION
- CLEAR WATER DIVERSION PIPE
- DIVERSION HOSE
- WATER DIVERSION PUMP
- OUTLET PROTECTION
- FILTER BAG
- TREE TO BE REMOVED
- TREE PROTECTION PLANKING
- ROOT PRUNING
- TEMPORARY ACCESS BRIDGE
- 5' MAJOR CONTOUR
- 1' MINOR CONTOUR
- PROPOSED 100-YR FLOODPLAIN
- BOULDER STEP STRUCTURE (BSS)
- GRADE CONTROL LOG STRUCTURE (GLS)
- LIVE BRUSH WATTLE (W)
- HABITAT ROUGHNESS FEATURE (HRF)
- CLASS I CHANNEL BED MATERIAL
- CLASS II CHANNEL BED MATERIAL
- WETLAND DEPRESSURAL AREA (WDA)
- TPF
- TEMPORARY TREE PROTECTION FENCING
- REFORESTATION SIGN
- RIPARIAN REFORESTATION 19,300 SF / 0.44 AC
- FLOODPLAIN REFORESTATION 6,073 SF / 0.19 AC
- WOODLAND PLANTING AREA

REFER TO DETAIL TCP-26 FOR ROOT PRUNING AND TREE PROTECTION FENCING.

PROPERTY OWNERS AWARENESS CERTIFICATE: The Maryland-National Capital Park and Planning Commission

I/We 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.

Jennifer Bruneau
Owner or Owner's Representative
Dec 4, 2023
jennifer.bruneau@gpparks.com

DATE: 10/13/2023

DWG. 4 OF 14

CENTURY ENGINEERING
A KLEINFELDER COMPANY
10710 GILROY ROAD, HUNT VALLEY, MD 21031
PHONE: 443-589-2400

THIS PLAN WAS PREPARED BY:
DANIEL YEAGER, MD DNR QUALIFIED PROFESSIONAL

Daniel Yeager
DANIEL YEAGER
CENTURY ENGINEERING, LLC, A KLEINFELDER COMPANY
10710 GILROY RD., HUNT VALLEY, MD 21031
443-689-2670 / DYEAGER@CENTURYENG.COM

9/22/2023
DATE

DEPARTMENT OF THE ENVIRONMENT



CAPITAL PROJECTS SECTION
STORMWATER MANAGEMENT
DIVISION

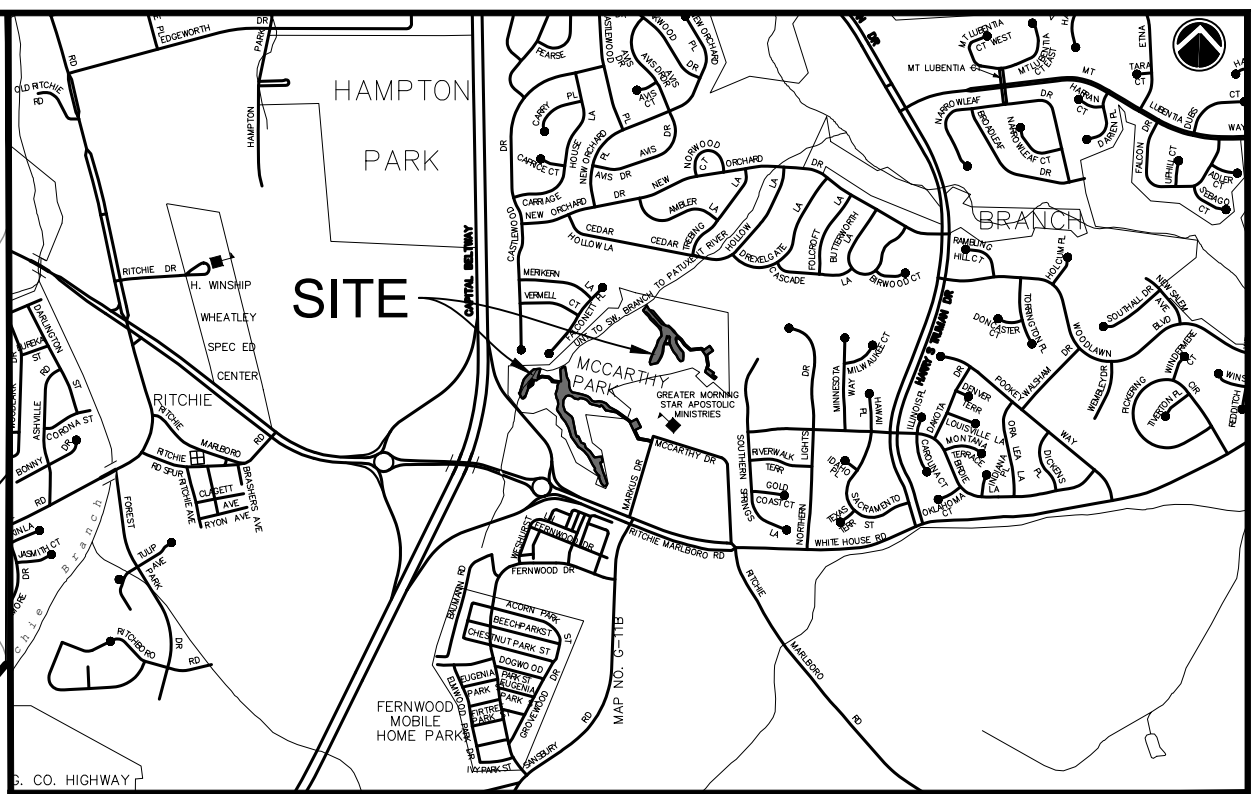
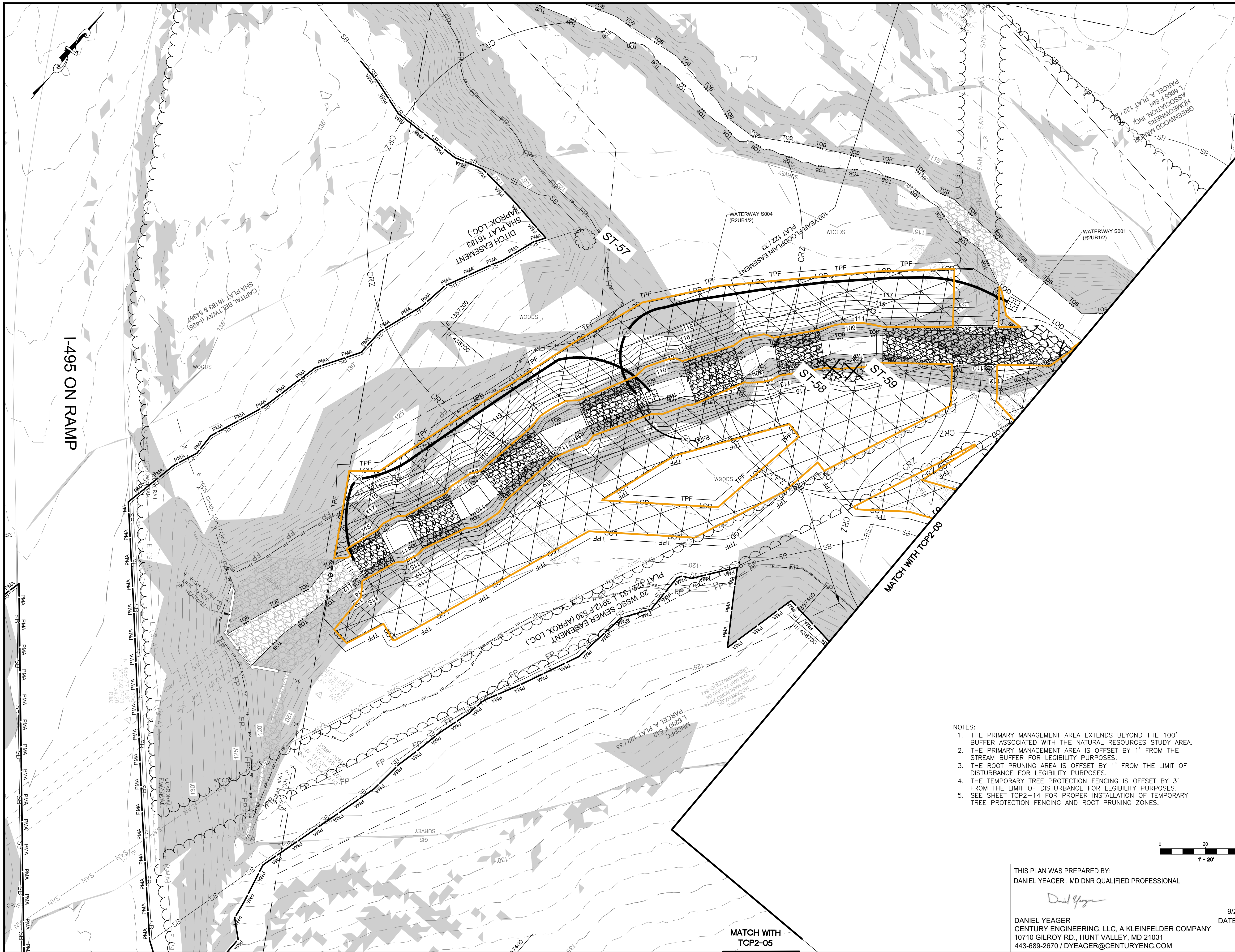
McCARTHY PARK
STREAM RESTORATION
PRINCE GEORGE'S COUNTY, MARYLAND

TREE CONSERVATION PLAN 2
TCP2-03

TYPE 2 TREE CONSERVATION (TCP2) PLAN APPROVAL BLOCK

Prince George's County Planning Department, M-NCPPC Environmental Planning Section
TYPE 2 TREE CONSERVATION PLAN APPROVAL
TCP2-043-2022

Approved by	Date	DRD #	Reason for Revision
00 Mary Res	12/7/2023		N/A
01			
02			
03			
04			
05			



VICINITY MAP
1" = 2000'
TAX MAP PAGE 74 GRID E4
COUNTY MAP PAGE X GRID XX
WSSC 200' SHEET NO. XXXXXXXX

EXISTING FEATURES

- 5' MAJOR CONTOUR
- 1' MINOR CONTOUR
- EXISTING 100YR FLOODPLAIN
- EASEMENT LINE
- SEWER LINE WITH MANHOLE
- STORM DRAIN WITH MANHOLE
- EXISTING FENCE
- EXISTING UGE LINE
- EXISTING GAS LINE
- PROPERTY BOUNDARY
- EXISTING SIGN
- EXISTING LIGHT POLE
- EXISTING RIPRAP
- EDGE OF PAVEMENT
- EXISTING STRUCTURE

PROPOSED FEATURES

- LIMIT OF DISTURBANCE
- SUPER SILT FENCE
- STABILIZED CONSTRUCTION ENTRANCE
- TEMPORARY MULCH ACCESS ROAD
- SANDBAG DIVERSION
- CLEAR WATER DIVERSION PIPE
- DIVERSION HOSE
- WATER DIVERSION PUMP
- OUTLET PROTECTION
- FILTER BAG
- TREE TO BE REMOVED
- TREE PROTECTION PLANKING
- ROOT PRUNING
- TEMPORARY ACCESS BRIDGE
- 225' 5' MAJOR CONTOUR
- 224' 1' MINOR CONTOUR
- PROPOSED 100-YR FLOODPLAIN
- BOULDER STEP STRUCTURE (BSS)
- GRADE CONTROL LOG STRUCTURE (GCLS)
- LIVE BRUSH WATTLE (W)
- HABITAT ROUGHNESS FEATURE (HRF)
- CLASS I CHANNEL BED MATERIAL
- CLASS II CHANNEL BED MATERIAL
- WETLAND DEPRESSIONAL AREA (WDA)
- TEMPORARY TREE PROTECTION FENCING
- REFORESTATION SIGN
- RIPARIAN REFORESTATION 17,391 SF / 0.40 AC
- WOODLAND PLANTING AREA

REFER TO DETAIL TCP-26 FOR ROOT PRUNING AND TREE PROTECTION FENCING.

- NOTES:
1. THE PRIMARY MANAGEMENT AREA EXTENDS BEYOND THE 100' BUFFER ASSOCIATED WITH THE NATURAL RESOURCES STUDY AREA.
 2. THE PRIMARY MANAGEMENT AREA IS OFFSET BY 1' FROM THE STREAM BUFFER FOR LEGIBILITY PURPOSES.
 3. THE ROOT PRUNING AREA IS OFFSET BY 1' FROM THE LIMIT OF DISTURBANCE FOR LEGIBILITY PURPOSES.
 4. THE TEMPORARY TREE PROTECTION FENCING IS OFFSET BY 3' FROM THE LIMIT OF DISTURBANCE FOR LEGIBILITY PURPOSES.
 5. SEE SHEET TCP2-14 FOR PROPER INSTALLATION OF TEMPORARY TREE PROTECTION FENCING AND ROOT PRUNING ZONES.

PROPERTY OWNERS AWARENESS CERTIFICATE

The Maryland-National Capital Park and Planning Commission

I/We 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.

Jennifer Bruneau
Owner or Owner's Representative
Dec 4, 2023
Date

JENNIFER E. SHERMAN, SE
I/We 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.

JENNIFER E. SHERMAN, SE
Owner or Owner's Representative
10/13/2023
Date

DWG. 5 OF 14

THIS PLAN WAS PREPARED BY:
DANIEL YEAGER, MD DNR QUALIFIED PROFESSIONAL

Daniel Yeager

DANIEL YEAGER
CENTURY ENGINEERING, LLC, A KLEINFELDER COMPANY
10710 GILROY RD., HUNT VALLEY, MD 21031
443-689-2670 / DYEAGER@CENTURYENG.COM

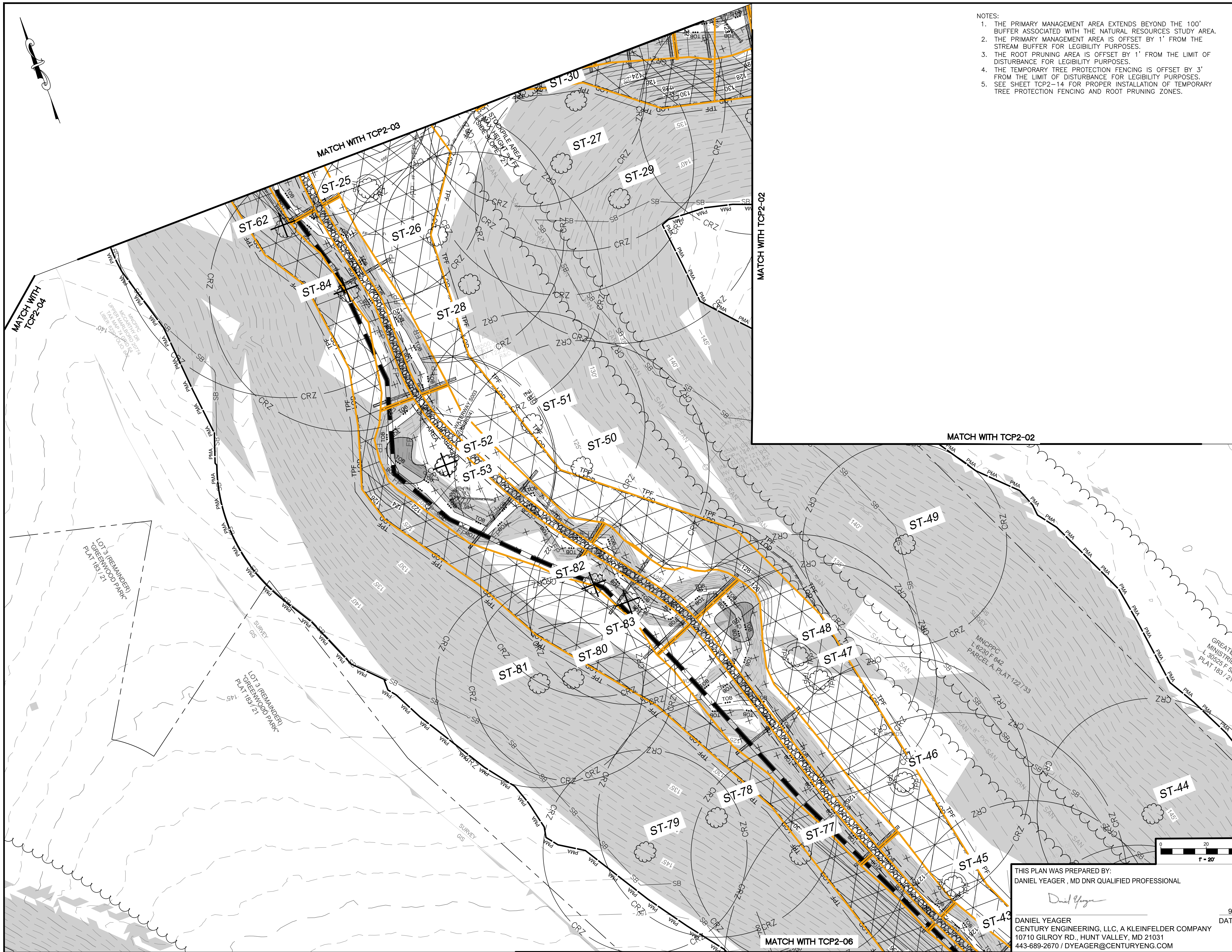
9/22/2023
DATE

CENTURY ENGINEERING
A KLEINFELDER COMPANY

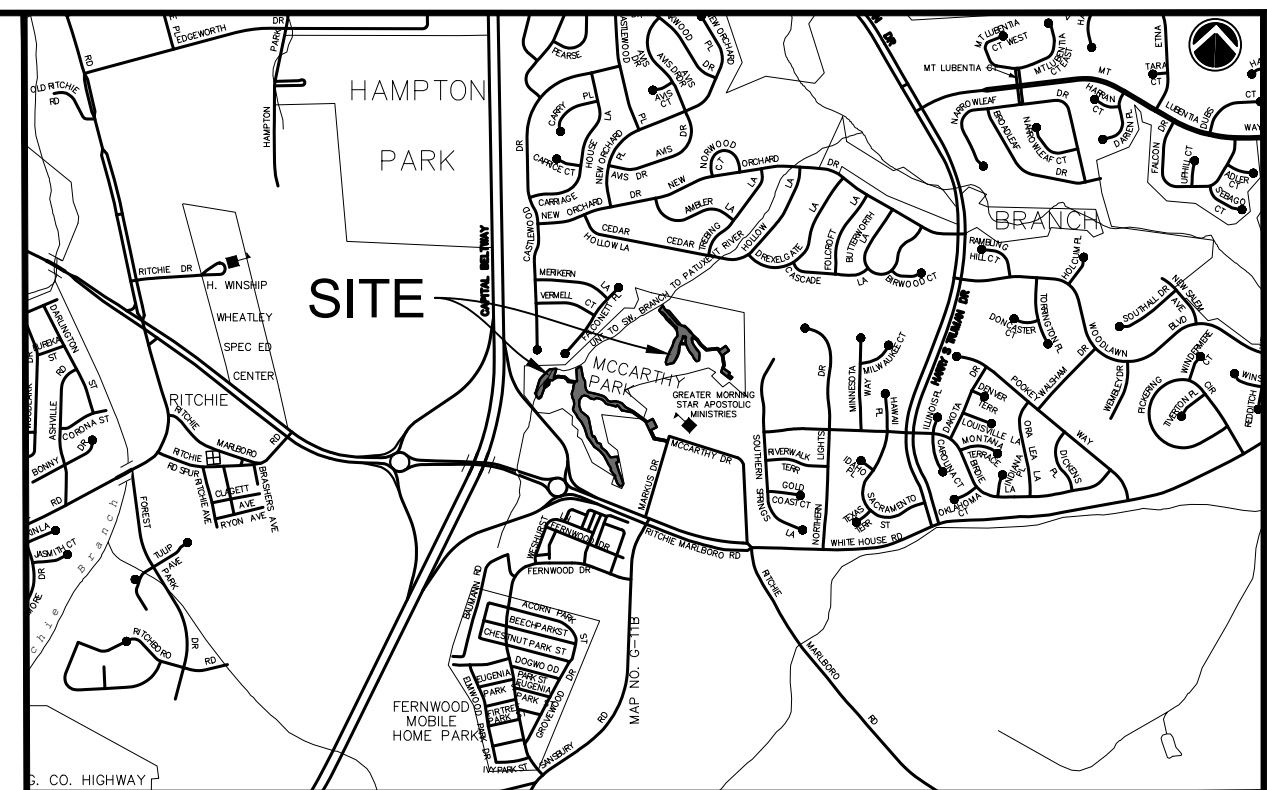
10710 GILROY ROAD, HUNT VALLEY, MD 21031
PHONE: 443-589-2400

TYPE 2 TREE CONSERVATION (TCP2) PLAN APPROVAL BLOCK

Approved by	Date	DRD #	Reason for Revision
00 <i>Mary Bea</i>	12/7/2023		N/A
01			
02			
03			
04			
05			

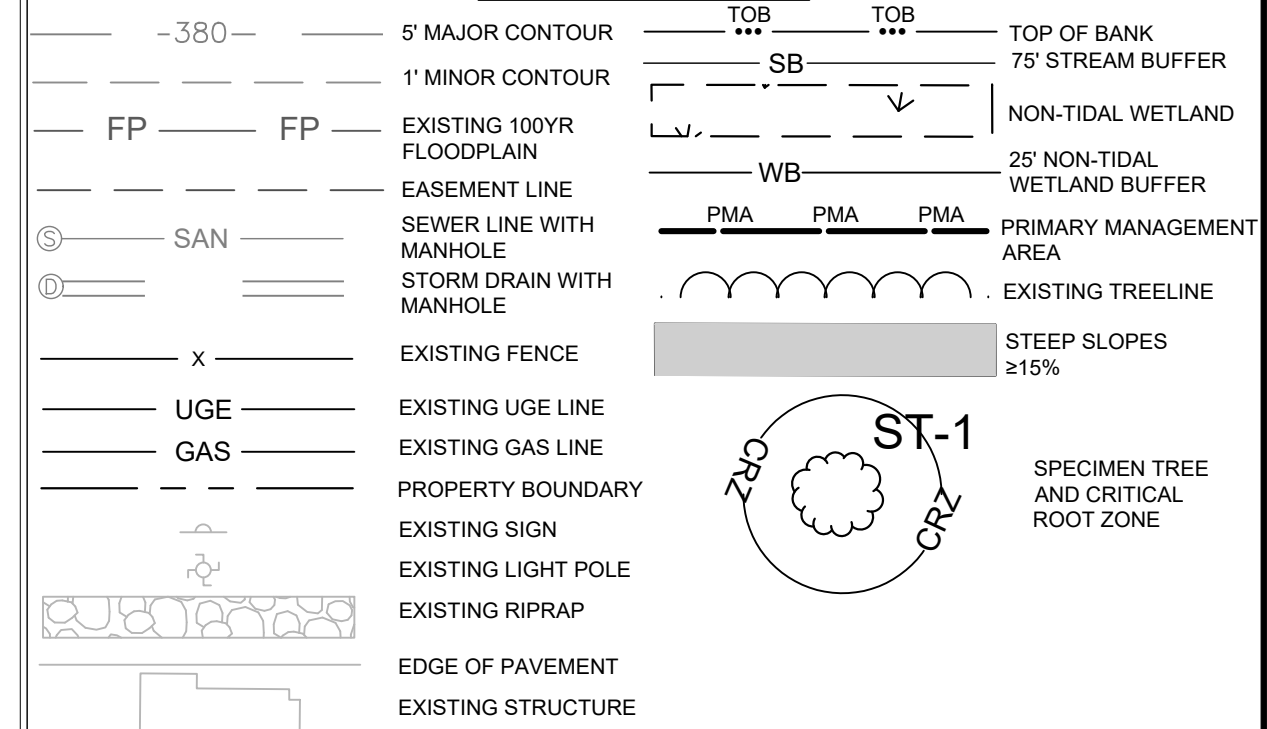


- NOTES:
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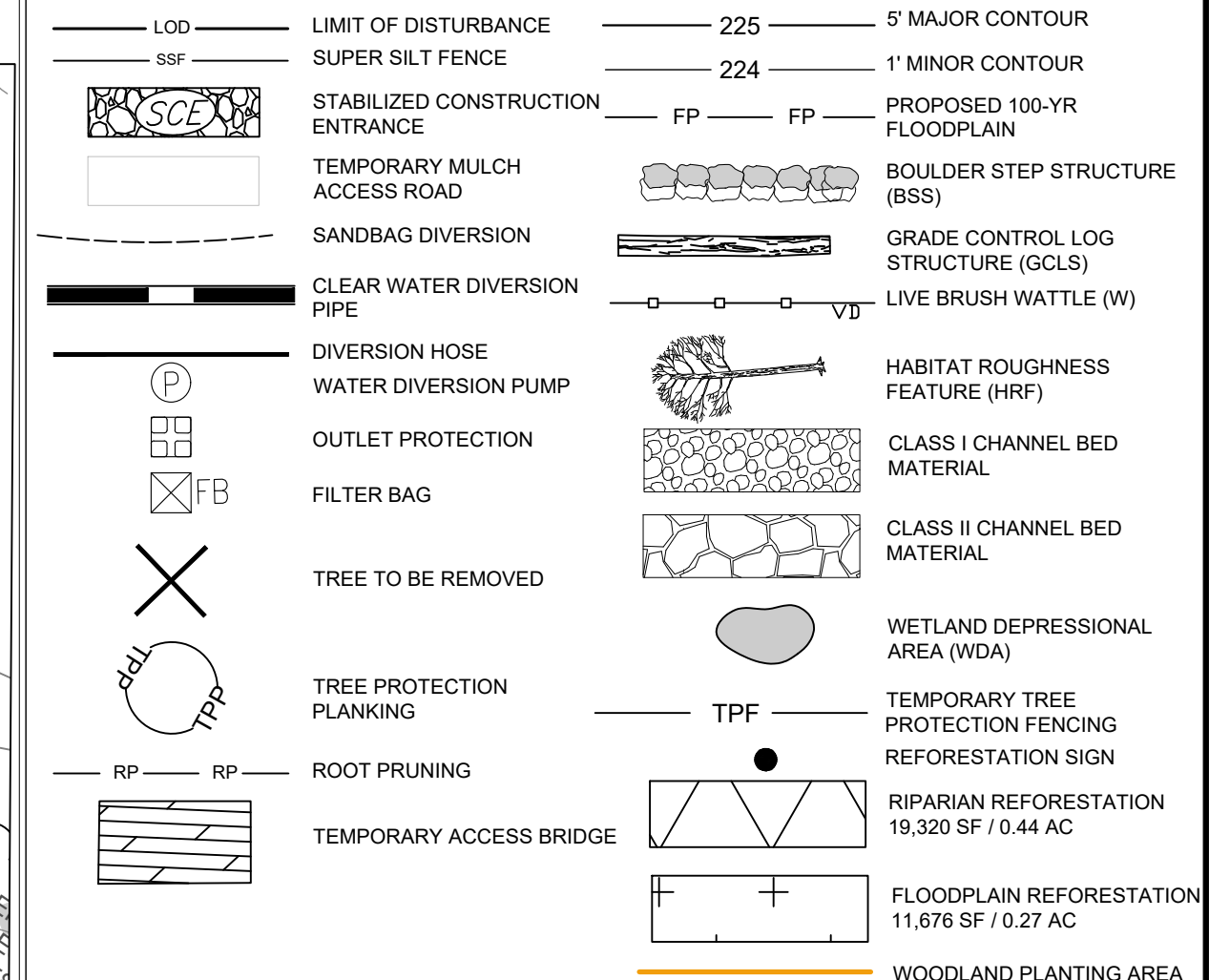


VICINITY MAP
1" = 2000'
TAX MAP PAGE 74 GRID E4
COUNTY MAP PAGE X GRID XX
WSSC 200' SHEET NO. XXXXXXXX

EXISTING FEATURES



PROPOSED FEATURES



REFER TO DETAIL TCP-26 FOR ROOT PRUNING AND TREE PROTECTION FENCING.

PROPERTY OWNERS AWARENESS
CERTIFICATE: The Maryland-National Capital Park and Planning Commission

I/We 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.

Jennifer Bruneau
Owner or Owner's Representative
Dec 4, 2023
jennifer.bruneau@gpparks.com

DATE: 10/13/2023

DWG. 6 OF 14

CENTURY ENGINEERING
A KLEINFELDER COMPANY
10710 GILROY ROAD, HUNT VALLEY, MD 21031
PHONE: 443-589-2400

TYPE 2 TREE CONSERVATION (TCP2) PLAN APPROVAL BLOCK

Prince George's County Planning Department, M-NCPPC Environmental Planning Section				
TYPE 2 TREE CONSERVATION PLAN APPROVAL TCP2-043-2022				
Approved by	Date	DRD #	Reason for Revision	
00 Mary Res	12/7/2023		N/A	
01				
02				
03				
04				
05				

DEPARTMENT OF THE ENVIRONMENT



CAPITAL PROJECTS SECTION
STORMWATER MANAGEMENT
DIVISION

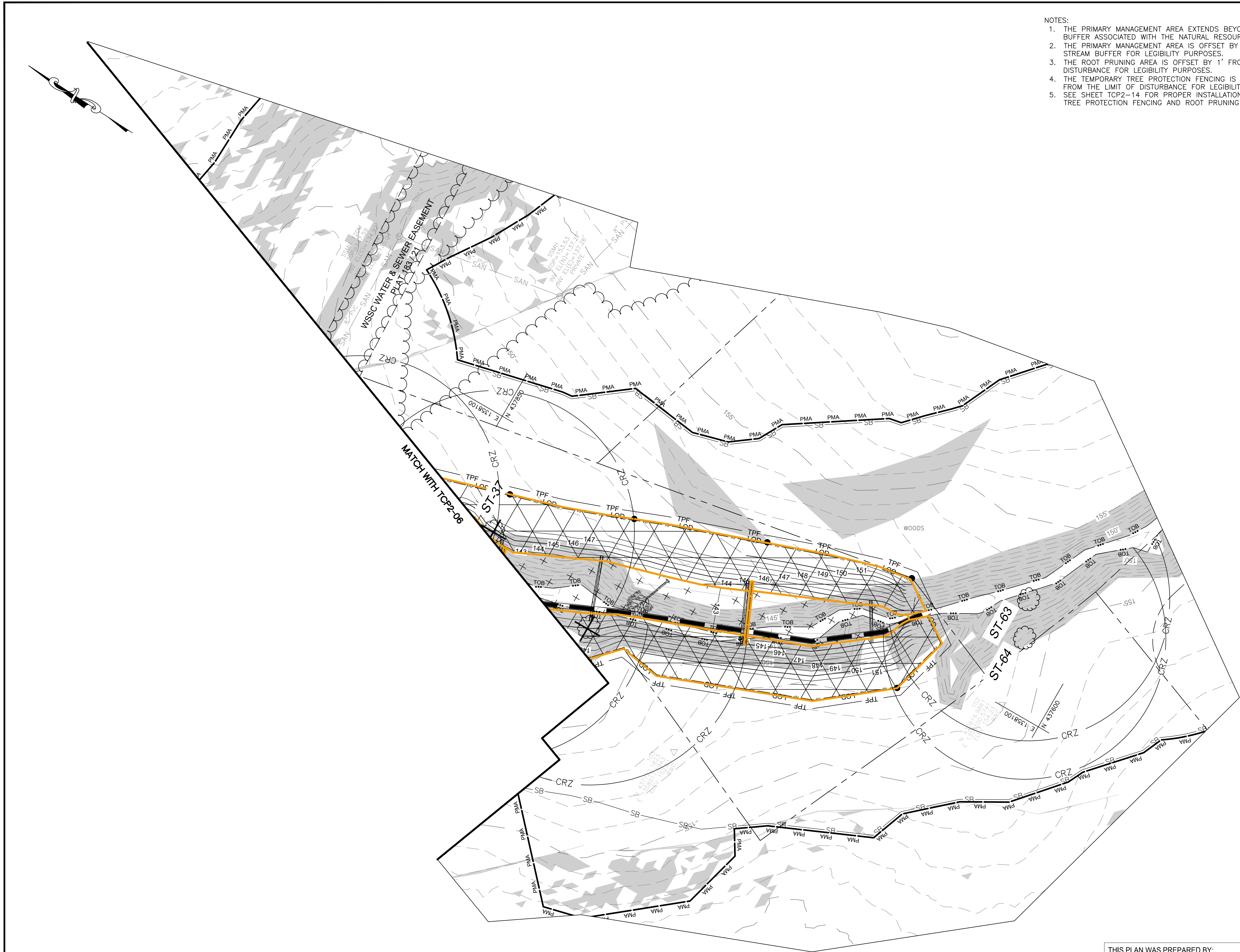
McCARTHY PARK
STREAM RESTORATION
PRINCE GEORGE'S COUNTY, MARYLAND

TREE CONSERVATION PLAN 2
TCP2-05

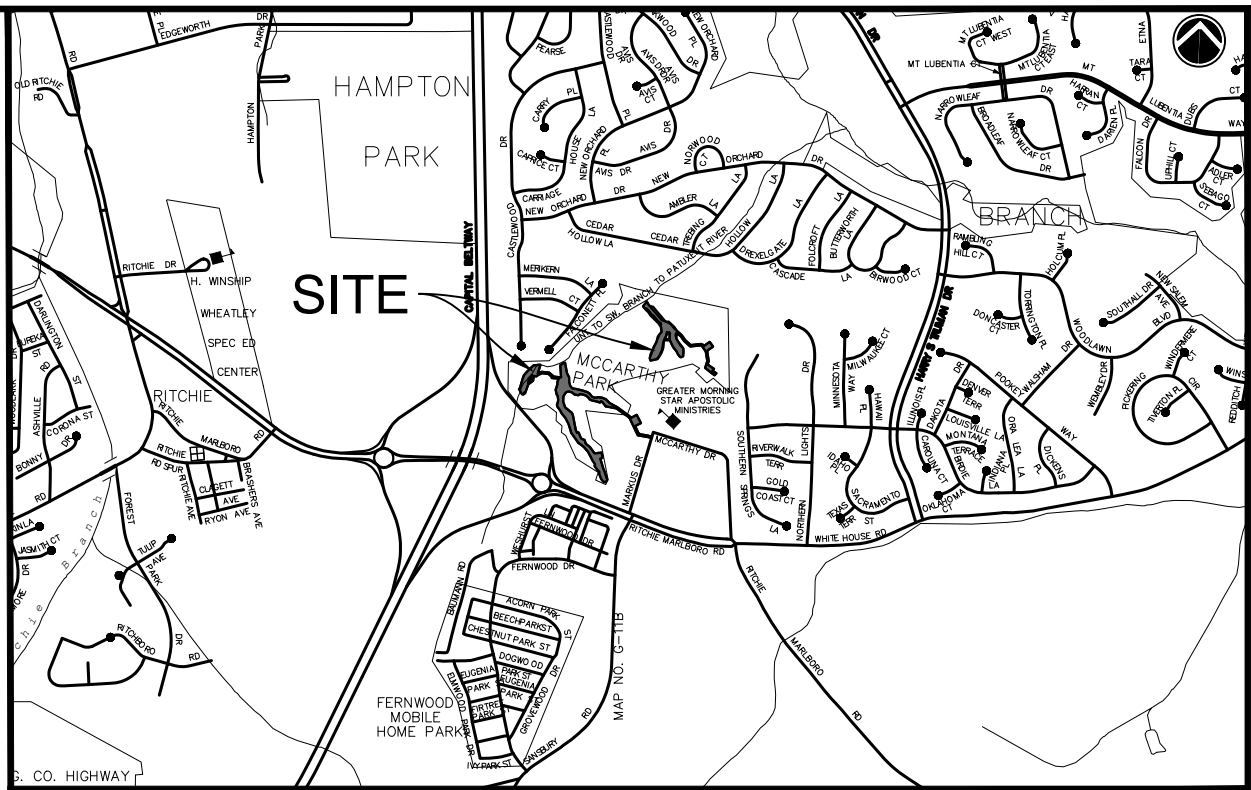
THIS PLAN WAS PREPARED BY:
DANIEL YEAGER, MD DNR QUALIFIED PROFESSIONAL

Daniel Yeager
DANIEL YEAGER
CENTURY ENGINEERING, LLC, A KLEINFELDER COMPANY
10710 GILROY RD., HUNT VALLEY, MD 21031
443-689-2670 / DYEAGER@CENTURYENG.COM

9/22/2023
DATE



- NOTES:
1. THE PRIMARY MANAGEMENT AREA EXTENDS BEYOND THE 100' BUFFER ASSOCIATED WITH THE NATURAL RESOURCES STUDY AREA.
 2. THE PRIMARY MANAGEMENT AREA IS OFFSET BY 1' FROM THE STREAM BUFFER FOR LEGIBILITY PURPOSES.
 3. THE ROOT PRUNING AREA IS OFFSET BY 1' FROM THE LIMIT OF DISTURBANCE FOR LEGIBILITY PURPOSES.
 4. THE TEMPORARY TREE PROTECTION FENCING IS OFFSET BY 3' FROM THE LIMIT OF DISTURBANCE FOR LEGIBILITY PURPOSES.
 5. SEE SHEET TCP2-14 FOR PROPER INSTALLATION OF TEMPORARY TREE PROTECTION FENCING AND ROOT PRUNING ZONES.



VICINITY MAP
1" = 2000'
TAX MAP PAGE 74 GRID E4
COUNTY MAP PAGE X GRID XX
WSSC 200' SHEET NO. XXXXXXXX

EXISTING FEATURES

- 5' MAJOR CONTOUR
- 1' MINOR CONTOUR
- EXISTING 100YR FLOODPLAIN
- EASEMENT LINE
- SEWER LINE WITH MANHOLE
- STORM DRAIN WITH MANHOLE
- EXISTING FENCE
- EXISTING UGE LINE
- EXISTING GAS LINE
- PROPERTY BOUNDARY
- EXISTING SIGN
- EXISTING LIGHT POLE
- EXISTING RIPRAP
- EDGE OF PAVEMENT
- EXISTING STRUCTURE

PROPOSED FEATURES

- LIMIT OF DISTURBANCE
- SUPER SILT FENCE
- STABILIZED CONSTRUCTION ENTRANCE
- TEMPORARY MULCH ACCESS ROAD
- SANDBAG DIVERSION
- CLEAR WATER DIVERSION PIPE
- DIVERSION HOSE
- WATER DIVERSION PUMP
- OUTLET PROTECTION
- FILTER BAG
- TREE TO BE REMOVED
- TREE PROTECTION PLANKING
- ROOT PRUNING
- TEMPORARY ACCESS BRIDGE

LEGEND

- TOP OF BANK
- 75' STREAM BUFFER
- NON-TIDAL WETLAND
- 25' NON-TIDAL WETLAND BUFFER
- PRIMARY MANAGEMENT AREA
- EXISTING TREELINE
- STEEP SLOPES ≥15%
- SPECIMEN TREE AND CRITICAL ROOT ZONE

PROPOSED FEATURES

- 225' 5' MAJOR CONTOUR
- 224' 1' MINOR CONTOUR
- PROPOSED 100-YR FLOODPLAIN
- BOULDER STEP STRUCTURE (BSS)
- GRADE CONTROL LOG STRUCTURE (GCLS)
- LIVE BRUSH WATTLE (W)
- HABITAT ROUGHNESS FEATURE (HRF)
- CLASS I CHANNEL BED MATERIAL
- CLASS II CHANNEL BED MATERIAL
- WETLAND DEPRESSURAL AREA (WDA)
- TEMPORARY TREE PROTECTION FENCING
- REFORESTATION SIGN
- RIPARIAN REFORESTATION 6,665 SF / 0.15 AC
- FLOODPLAIN REFORESTATION 2,773 SF / 0.06 AC
- WOODLAND PLANTING AREA

REFER TO DETAIL TCP-26 FOR ROOT PRUNING AND TREE PROTECTION FENCING.

PROPERTY OWNERS AWARENESS CERTIFICATE

I/We 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.

Jennifer Bruneau
Owner or Owner's Representative
Dec 4, 2023
Date

JENNIFER E. SHERMAN, SE
I/We 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.

JENNIFER E. SHERMAN, SE
Owner or Owner's Representative
10/13/2023
Date

DWG. 8 OF 14

CENTURY ENGINEERING
A KLEINFELDER COMPANY
10710 GILROY ROAD, HUNT VALLEY, MD 21031
PHONE: 443-589-2400

THIS PLAN WAS PREPARED BY:
DANIEL YEAGER, MD DNR QUALIFIED PROFESSIONAL

Daniel Yeager
DANIEL YEAGER
CENTURY ENGINEERING, LLC, A KLEINFELDER COMPANY
10710 GILROY RD., HUNT VALLEY, MD 21031
443-689-2670 / DYEAGER@CENTURYENG.COM

9/22/2023
DATE

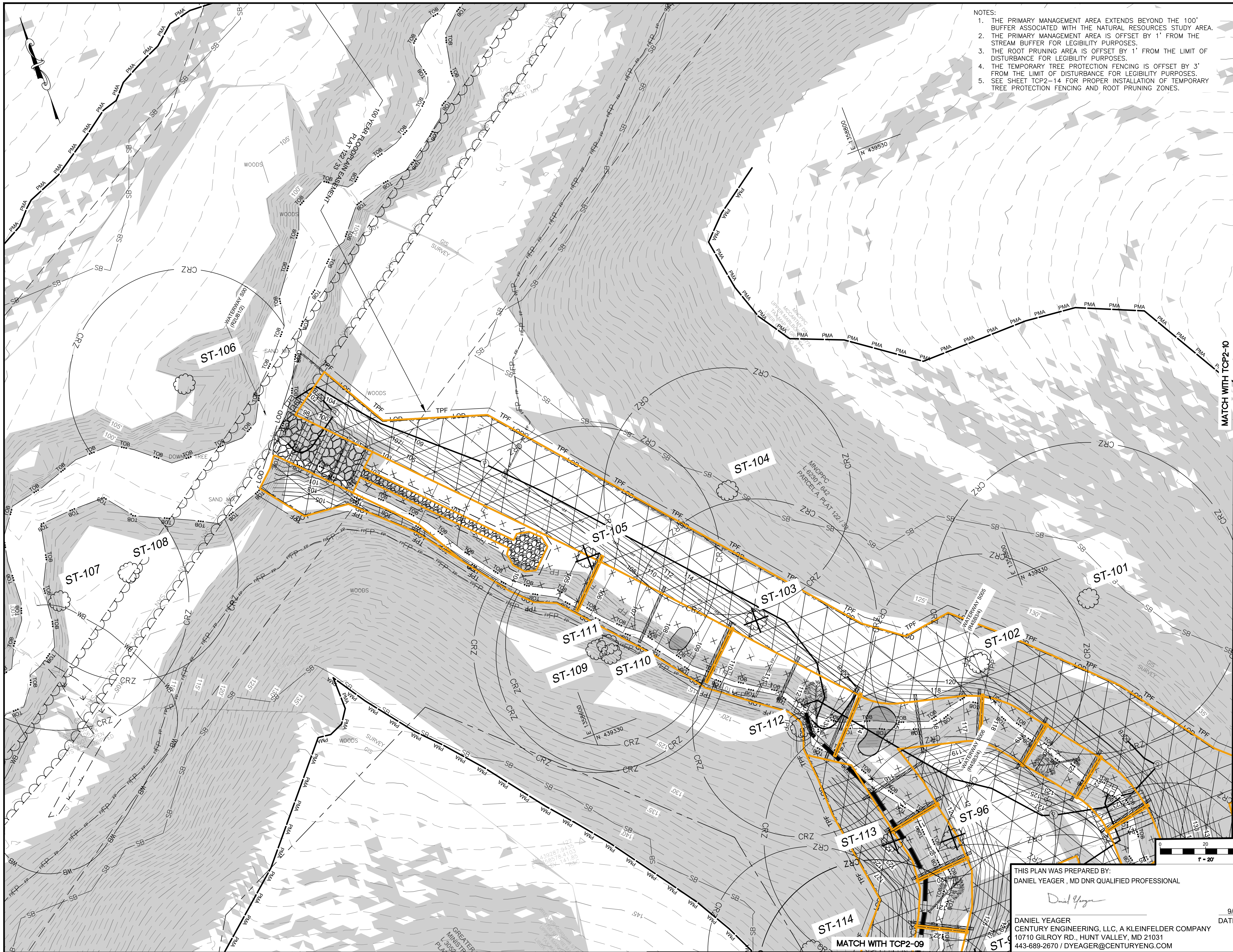
DEPARTMENT OF THE ENVIRONMENT



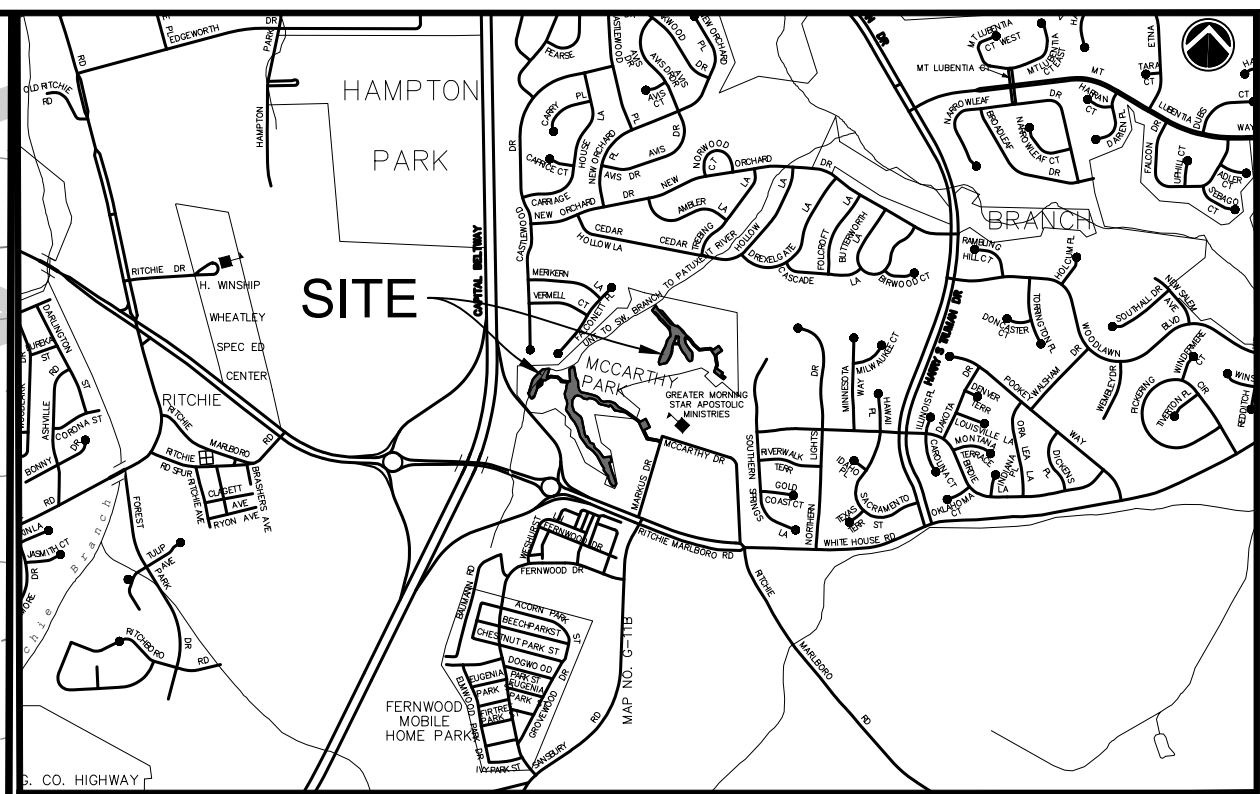
CAPITAL PROJECTS SECTION
STORMWATER MANAGEMENT
DIVISION

McCARTHY PARK
STREAM RESTORATION
PRINCE GEORGE'S COUNTY, MARYLAND

TREE CONSERVATION PLAN 2
TCP2-07



- NOTES:
1. THE PRIMARY MANAGEMENT AREA EXTENDS BEYOND THE 100' BUFFER ASSOCIATED WITH THE NATURAL RESOURCES STUDY AREA.
 2. THE PRIMARY MANAGEMENT AREA IS OFFSET BY 1' FROM THE STREAM BUFFER FOR LEGIBILITY PURPOSES.
 3. THE ROOT PRUNING AREA IS OFFSET BY 1' FROM THE LIMIT OF DISTURBANCE FOR LEGIBILITY PURPOSES.
 4. THE TEMPORARY TREE PROTECTION FENCING IS OFFSET BY 3' FROM THE LIMIT OF DISTURBANCE FOR LEGIBILITY PURPOSES.
 5. SEE SHEET TCP2-14 FOR PROPER INSTALLATION OF TEMPORARY TREE PROTECTION FENCING AND ROOT PRUNING ZONES.



VICINITY MAP
1" = 2000'
TAX MAP PAGE 74 GRID E4
COUNTY MAP PAGE X GRID XX
WSSC 200' SHEET NO. XXXXXXXX

EXISTING FEATURES

— 380 —	5' MAJOR CONTOUR	— TOB —	TOP OF BANK
— FP —	1' MINOR CONTOUR	— SB —	75' STREAM BUFFER
— FP —	EXISTING 100YR FLOODPLAIN	— WB —	NON-TIDAL WETLAND
— EASEMENT LINE —		— WB —	25' NON-TIDAL WETLAND BUFFER
— SAN —	SEWER LINE WITH MANHOLE	— PMA —	PRIMARY MANAGEMENT AREA
— STORM DRAIN WITH MANHOLE —		— PMA —	EXISTING TREELINE
— X —	EXISTING FENCE	— PMA —	STEEP SLOPES ≥15%
— UGE —	EXISTING UGE LINE	— ST-1 —	SPECIMEN TREE AND CRITICAL ROOT ZONE
— GAS —	EXISTING GAS LINE		
— —	PROPERTY BOUNDARY		
— —	EXISTING SIGN		
— —	EXISTING LIGHT POLE		
— —	EXISTING RIPRAP		
— —	EDGE OF PAVEMENT		
— —	EXISTING STRUCTURE		

PROPOSED FEATURES

— LOD —	LIMIT OF DISTURBANCE	— 225 —	5' MAJOR CONTOUR
— SBF —	SUPER SILT FENCE	— 224 —	1' MINOR CONTOUR
— —	STABILIZED CONSTRUCTION ENTRANCE	— FP —	PROPOSED 100-YR FLOODPLAIN
— —	TEMPORARY MULCH	— —	BOULDER STEP STRUCTURE (BSS)
— —	SANDBAG DIVERSION	— —	GRADE CONTROL LOG STRUCTURE (GLS)
— —	CLEAR WATER DIVERSION PIPE	— —	LIVE BRUSH WATTLE (W)
— —	DIVERSION HOSE	— —	HABITAT ROUGHNESS FEATURE (HRF)
— —	WATER DIVERSION PUMP	— —	CLASS I CHANNEL BED MATERIAL
— —	OUTLET PROTECTION	— —	CLASS II CHANNEL BED MATERIAL
— —	FILTER BAG	— —	WETLAND DEPRESSURAL AREA (WDA)
— X —	TREE TO BE REMOVED	— —	TEMPORARY TREE PROTECTION FENCING
— —	TREE PROTECTION PLANKING	— —	REFORESTATION SIGN
— RP —	ROOT PRUNING	— —	RIPARIAN REFORESTATION 20,353 SF / 0.47 AC
— —	TEMPORARY ACCESS BRIDGE	— —	FLOODPLAIN REFORESTATION 10,495 SF / 0.24 AC
		— —	WOODLAND PLANTING AREA

REFER TO DETAIL TCP-26 FOR ROOT PRUNING AND TREE PROTECTION FENCING.

PROPERTY OWNERS AWARENESS CERTIFICATE: The Maryland-National Capital Park and Planning Commission

I/We 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.

Jennifer Bruneau
Owner or Owner's Representative
Dec 4, 2023
Date
jennifer.bruneau@pgparks.com

PROPERTY OWNERS AWARENESS CERTIFICATE: *James E. Simeon, Sr.*

I/We 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.

James E. Simeon, Sr.
Owner or Owner's Representative
10/13/2023
Date

DWG. 9 OF 14

THIS PLAN WAS PREPARED BY:
DANIEL YEAGER, MD DNR QUALIFIED PROFESSIONAL

DANIEL YEAGER
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10710 GILROY RD., HUNT VALLEY, MD 21031
443-689-2670 / DYEAGER@CENTURYENG.COM

9/22/2023
DATE

DEPARTMENT OF THE ENVIRONMENT



CAPITAL PROJECTS SECTION
STORMWATER MANAGEMENT
DIVISION

McCARTHY PARK
STREAM RESTORATION
PRINCE GEORGE'S COUNTY, MARYLAND

TREE CONSERVATION PLAN 2
TCP2-08

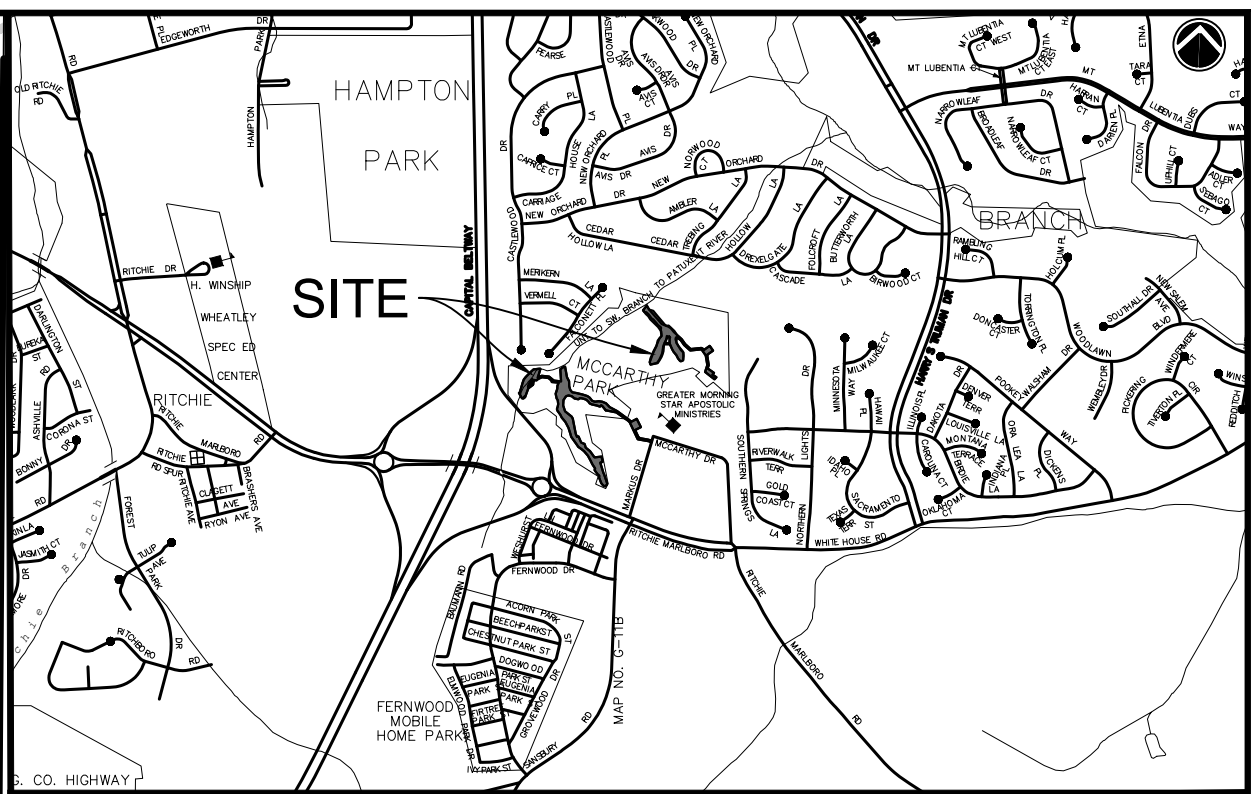
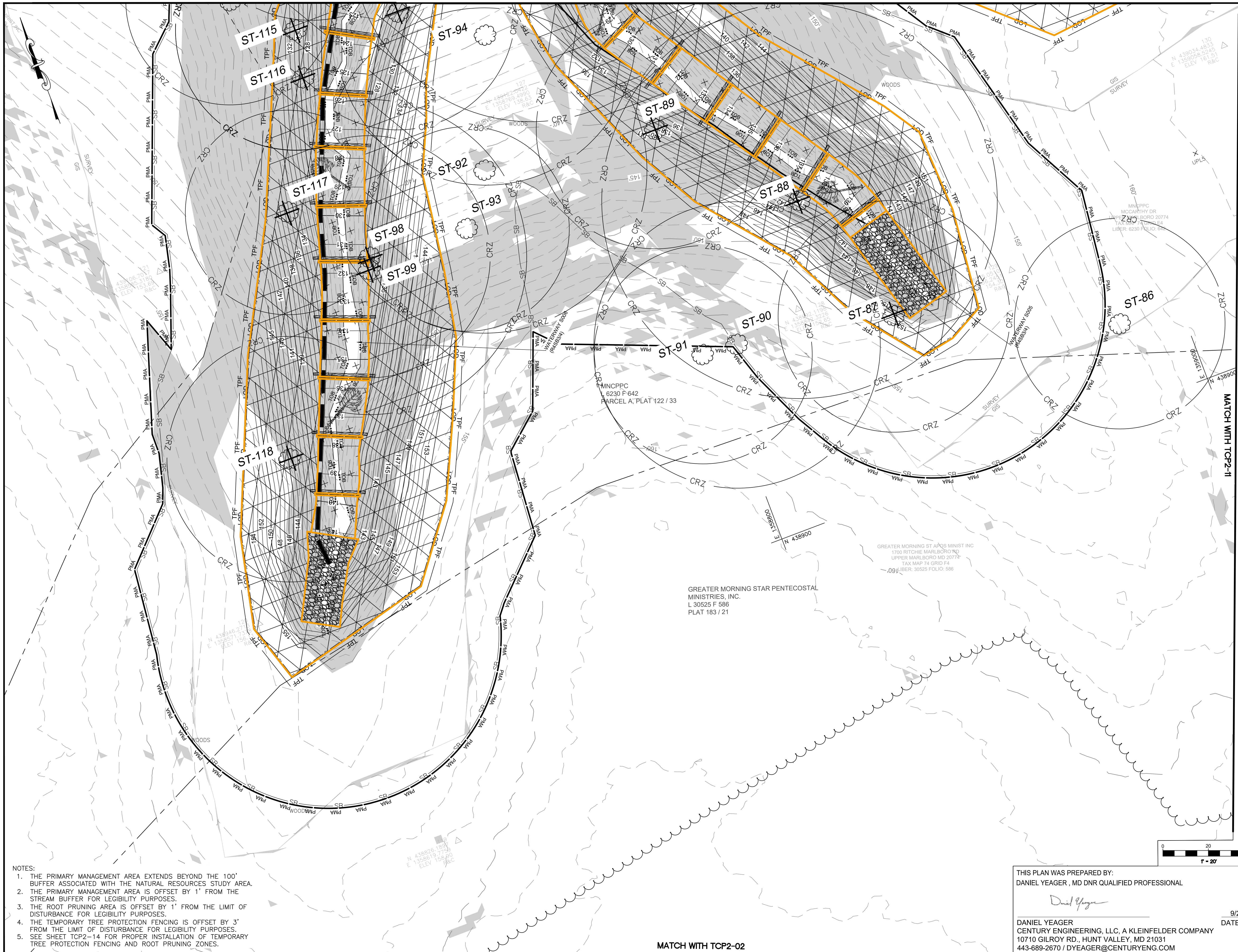
CENTURY ENGINEERING
A KLEINFELDER COMPANY
10710 GILROY ROAD, HUNT VALLEY, MD 21031
PHONE: 443-589-2400

TYPE 2 TREE CONSERVATION (TCP2) PLAN APPROVAL BLOCK

Prince George's County Planning Department, M-NCPPC Environmental Planning Section			
TYPE 2 TREE CONSERVATION PLAN APPROVAL TCP2-043-2022			
Approved by	Date	DRD #	Reason for Revision
00 <i>Mary Res</i>	12/7/2023		N/A
01			
02			
03			
04			
05			

MATCH WITH TCP2-08

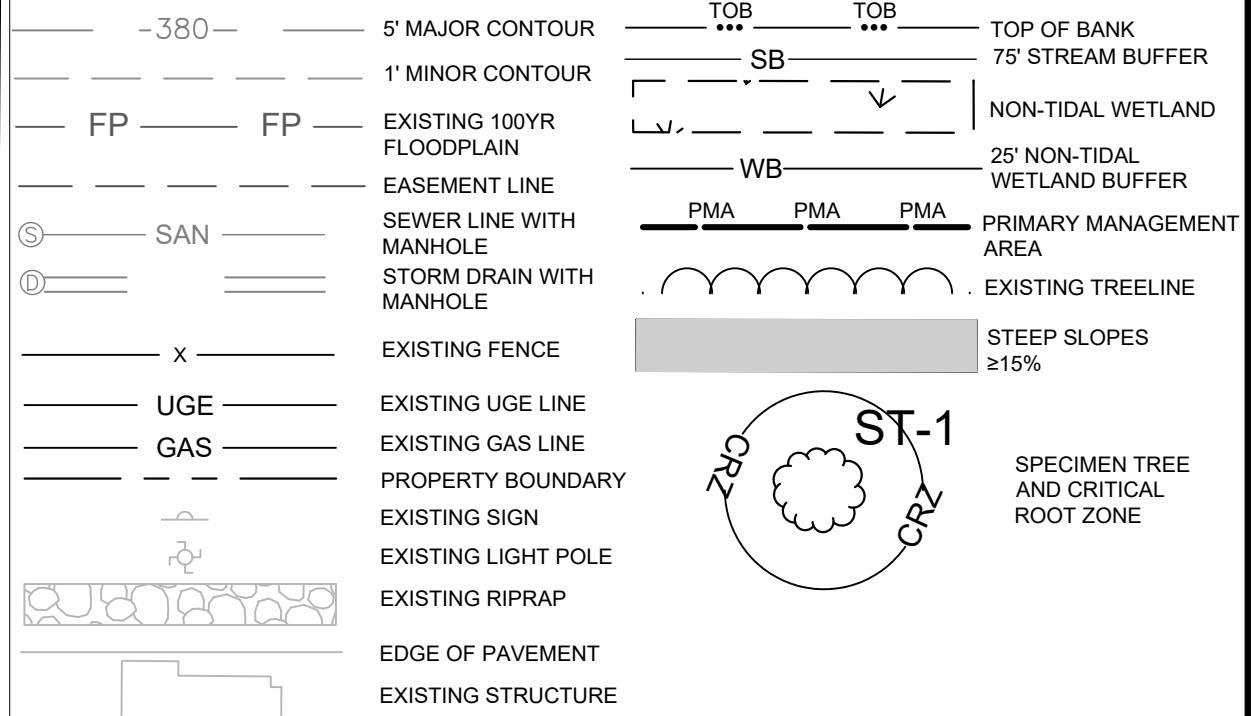
MATCH WITH TCP2-10



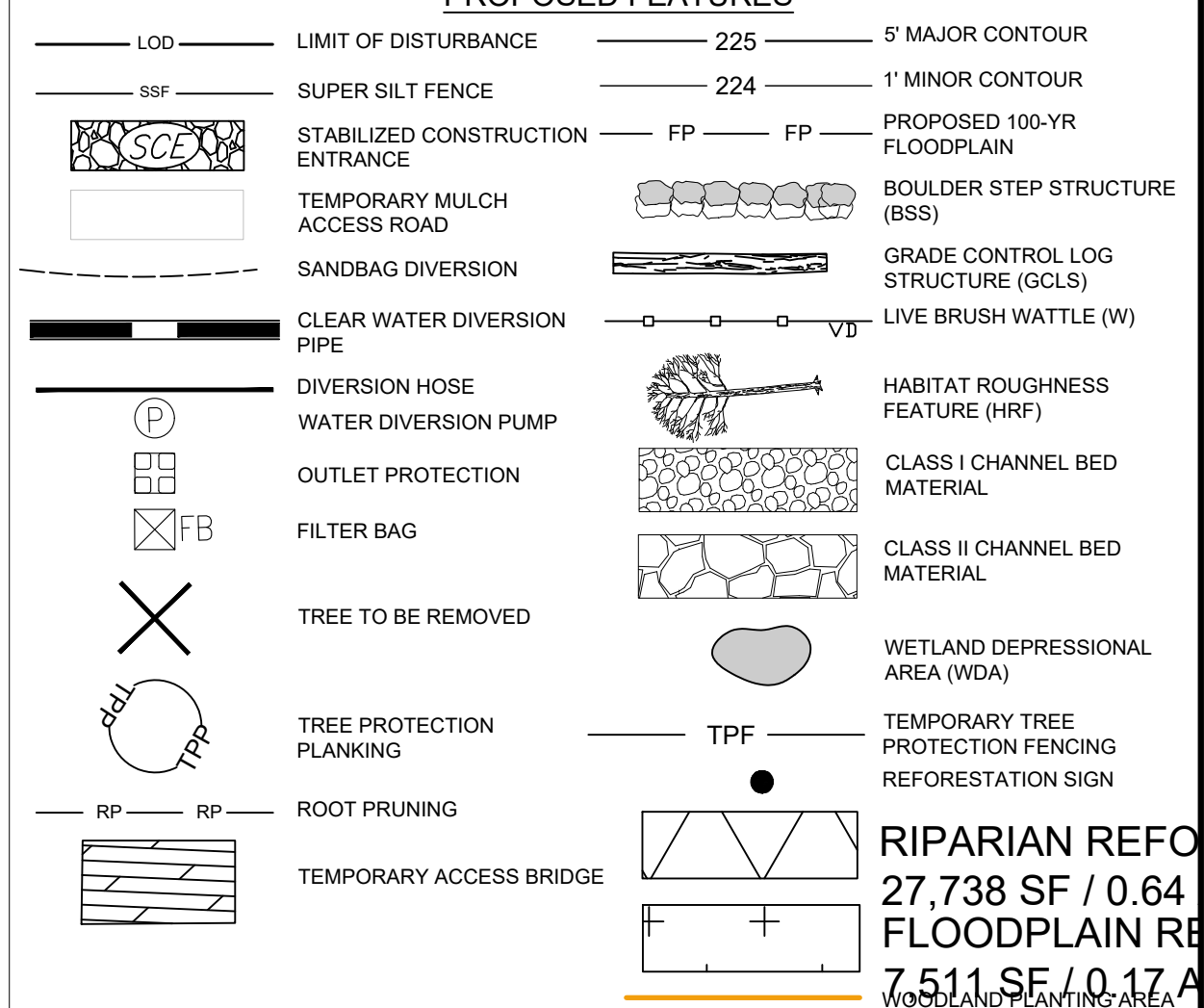
VICINITY MAP

1" = 2000'
TAX MAP PAGE 74 GRID E4
COUNTY MAP PAGE X GRID XX
WSSC 200' SHEET NO. XXXXXXXX

EXISTING FEATURES



PROPOSED FEATURES



REFER TO DETAIL TCP-26 FOR ROOT PRUNING AND TREE PROTECTION FENCING.

PROPERTY OWNERS AWARENESS CERTIFICATE

The Maryland-National Capital Park and Planning Commission

I/We 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.

Jennifer Bruneau
Owner or Owner's Representative
Dec 4, 2023
jennifer.bruneau@gpparks.com

PROPERTY OWNERS AWARENESS CERTIFICATE

I/We 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
Date 10/13/2023

DWG. 10 OF 14

NOTES:

1. THE PRIMARY MANAGEMENT AREA EXTENDS BEYOND THE 100' BUFFER ASSOCIATED WITH THE NATURAL RESOURCES STUDY AREA.
2. THE PRIMARY MANAGEMENT AREA IS OFFSET BY 1' FROM THE STREAM BUFFER FOR LEGIBILITY PURPOSES.
3. THE ROOT PRUNING AREA IS OFFSET BY 1' FROM THE LIMIT OF DISTURBANCE FOR LEGIBILITY PURPOSES.
4. THE TEMPORARY TREE PROTECTION FENCING IS OFFSET BY 3' FROM THE LIMIT OF DISTURBANCE FOR LEGIBILITY PURPOSES.
5. SEE SHEET TCP2-14 FOR PROPER INSTALLATION OF TEMPORARY TREE PROTECTION FENCING AND ROOT PRUNING ZONES.

MATCH WITH TCP2-02

THIS PLAN WAS PREPARED BY:
DANIEL YEAGER, MD DNR QUALIFIED PROFESSIONAL

Daniel Yeager

DANIEL YEAGER
CENTURY ENGINEERING, LLC, A KLEINFELDER COMPANY
10710 GILROY RD., HUNT VALLEY, MD 21031
443-689-2670 / DYEAGER@CENTURYENG.COM

9/22/2023
DATE

DEPARTMENT OF THE ENVIRONMENT



CAPITAL PROJECTS SECTION
STORMWATER MANAGEMENT
DIVISION

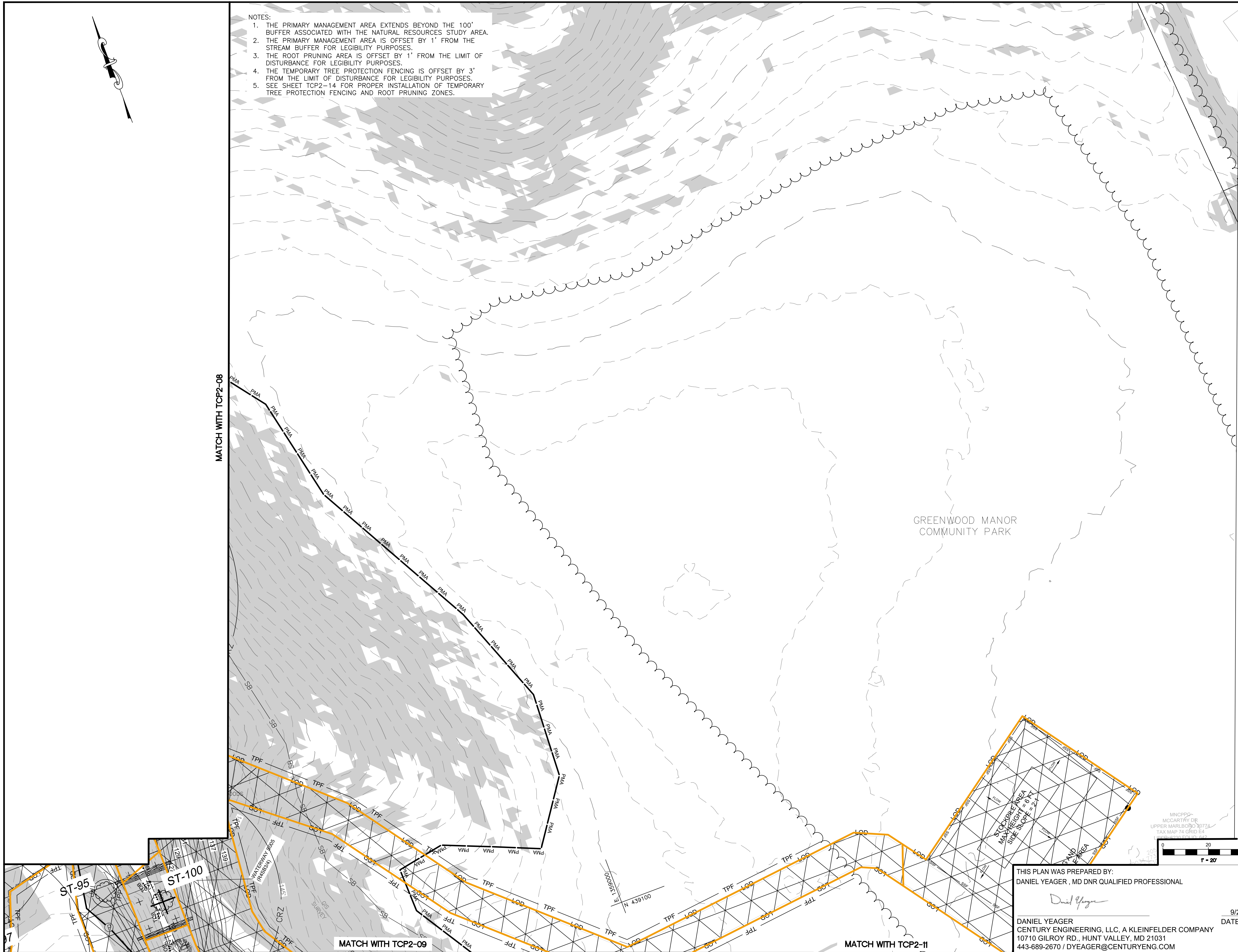
McCARTHY PARK
STREAM RESTORATION
PRINCE GEORGE'S COUNTY, MARYLAND

TREE CONSERVATION PLAN 2
TCP2-09

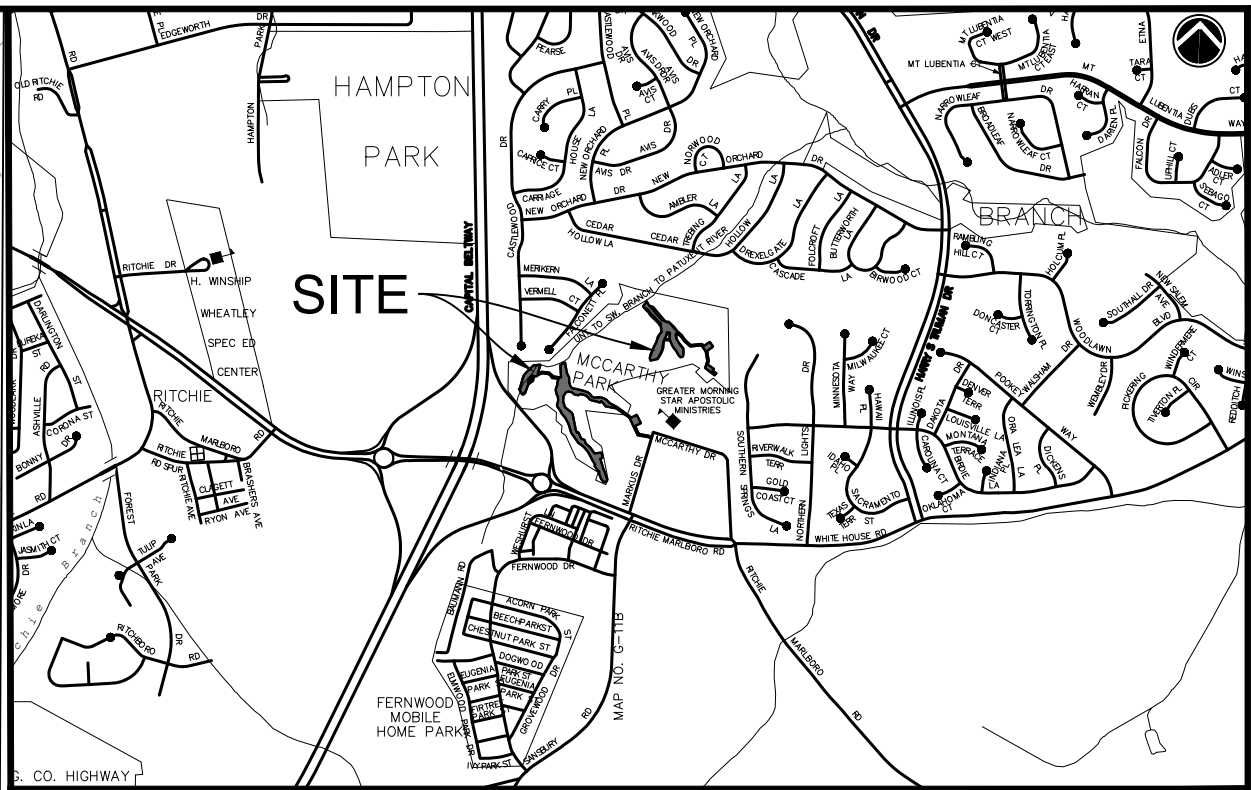
CENTURY
ENGINEERING
A KLEINFELDER COMPANY
10710 GILROY ROAD, HUNT VALLEY, MD 21031
PHONE: 443-589-2400

TYPE 2 TREE CONSERVATION (TCP2) PLAN
APPROVAL BLOCK

Prince George's County Planning Department, M-NCPPC Environmental Planning Section TYPE 2 TREE CONSERVATION PLAN APPROVAL TCP2-043-2022				
Approved by	Date	DRD #	Reason for Revision	
00 Mary Rea	12/7/2023		N/A	
01				
02				
03				
04				
05				



- NOTES:
1. THE PRIMARY MANAGEMENT AREA EXTENDS BEYOND THE 100' BUFFER ASSOCIATED WITH THE NATURAL RESOURCES STUDY AREA.
 2. THE PRIMARY MANAGEMENT AREA IS OFFSET BY 1' FROM THE STREAM BUFFER FOR LEGIBILITY PURPOSES.
 3. THE ROOT PRUNING AREA IS OFFSET BY 1' FROM THE LIMIT OF DISTURBANCE FOR LEGIBILITY PURPOSES.
 4. THE TEMPORARY TREE PROTECTION FENCING IS OFFSET BY 3' FROM THE LIMIT OF DISTURBANCE FOR LEGIBILITY PURPOSES.
 5. SEE SHEET TCP2-14 FOR PROPER INSTALLATION OF TEMPORARY TREE PROTECTION FENCING AND ROOT PRUNING ZONES.



VICINITY MAP
1" = 2000'
TAX MAP PAGE 74 GRID E4
COUNTY MAP PAGE X GRID XX
WSSC 200' SHEET NO. XXXXXXXX

EXISTING FEATURES

— 380 —	5' MAJOR CONTOUR	— TOB —	TOP OF BANK
— 1' —	1' MINOR CONTOUR	— SB —	75' STREAM BUFFER
— FP —	EXISTING 100YR FLOODPLAIN	— WB —	NON-TIDAL WETLAND
— SAN —	EASEMENT LINE	— PMA —	25' NON-TIDAL WETLAND BUFFER
— X —	SEWER LINE WITH MANHOLE	— PMA —	PRIMARY MANAGEMENT AREA
— UGE —	STORM DRAIN WITH MANHOLE	— PMA —	EXISTING TREELINE
— GAS —	EXISTING FENCE	— PMA —	STEEP SLOPES ≥15%
—	EXISTING UGE LINE	—	—
—	EXISTING GAS LINE	—	—
—	PROPERTY BOUNDARY	—	—
—	EXISTING SIGN	—	—
—	EXISTING LIGHT POLE	—	—
—	EXISTING RIPRAP	—	—
—	EDGE OF PAVEMENT	—	—
—	EXISTING STRUCTURE	—	—

PROPOSED FEATURES

— LOD —	LIMIT OF DISTURBANCE	— 225 —	5' MAJOR CONTOUR
— SSF —	SUPER SILT FENCE	— 224 —	1' MINOR CONTOUR
—	STABILIZED CONSTRUCTION ENTRANCE	— FP —	PROPOSED 100-YR FLOODPLAIN
—	TEMPORARY MULCH ACCESS ROAD	—	BOULDER STEP STRUCTURE (BSS)
—	SANDBAG DIVERSION	—	GRADE CONTROL LOG STRUCTURE (GOLS)
—	CLEAR WATER DIVERSION PIPE	—	LIVE BRUSH WATTLE (W)
—	DIVERSION HOSE	—	HABITAT ROUGHNESS FEATURE (HRF)
—	WATER DIVERSION PUMP	—	CLASS I CHANNEL BED MATERIAL
—	OUTLET PROTECTION	—	CLASS II CHANNEL BED MATERIAL
—	FILTER BAG	—	WETLAND DEPRESSIONAL AREA (WDA)
—	TREE TO BE REMOVED	—	TEMPORARY TREE PROTECTION FENCING
—	TREE PROTECTION PLANKING	—	REFORESTATION SIGN
—	ROOT PRUNING	—	RIPARIAN REFORESTATION 12,204 SF / 0.28 AC
—	TEMPORARY ACCESS BRIDGE	—	FLOODPLAIN REFORESTATION 892 SF / 0.02 AC
—	—	—	WOODLAND PLANTING AREA

REFER TO DETAIL TCP-26 FOR ROOT PRUNING AND TREE PROTECTION FENCING.

PROPERTY OWNERS AWARENESS CERTIFICATE: The Maryland-National Capital Park and Planning Commission

I/We 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.

Jennifer Bruneau
Owner or Owner's Representative
Dec 4, 2023
Date: jennifer.bruneau@gpparks.com

PROPERTY OWNERS AWARENESS CERTIFICATE: *James E. Simeon, Sr.*

I/We 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.

James E. Simeon, Sr.
Owner or Owner's Representative
Date: 10/13/2023

DWG. 11 OF 14

CENTURY ENGINEERING
A KLEINFELDER COMPANY
10710 GILROY ROAD, HUNT VALLEY, MD 21031
PHONE: 443-589-2400

THIS PLAN WAS PREPARED BY:
DANIEL YEAGER, MD DNR QUALIFIED PROFESSIONAL

DANIEL YEAGER
CENTURY ENGINEERING, LLC, A KLEINFELDER COMPANY
10710 GILROY RD., HUNT VALLEY, MD 21031
443-689-2670 / DYEAGER@CENTURYENG.COM

9/22/2023
DATE

TYPE 2 TREE CONSERVATION (TCP2) PLAN APPROVAL BLOCK

Prince George's County Planning Department, M-NCPPC Environmental Planning Section
TYPE 2 TREE CONSERVATION PLAN APPROVAL TCP2-043-2022

Approved by	Date	DRD #	Reason for Revision
00 Mary Rea	12/7/2023		N/A
01			
02			
03			
04			
05			

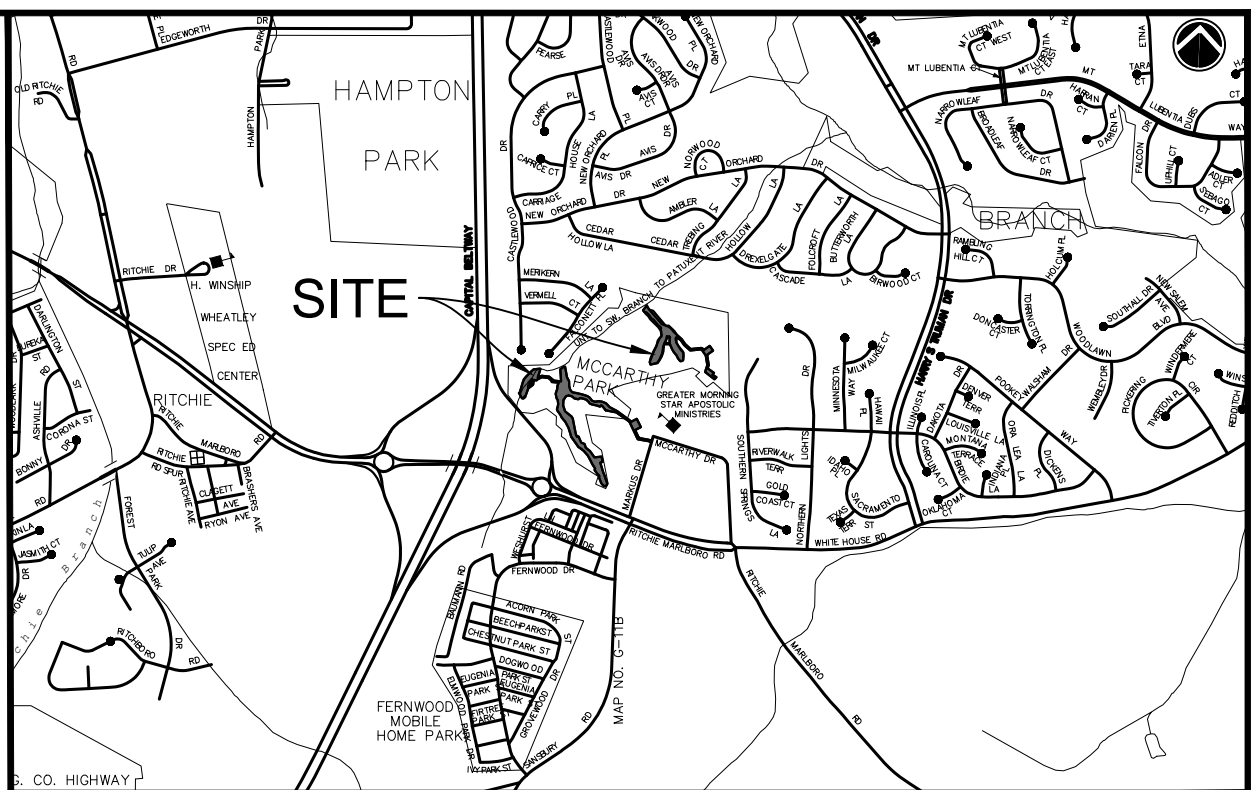
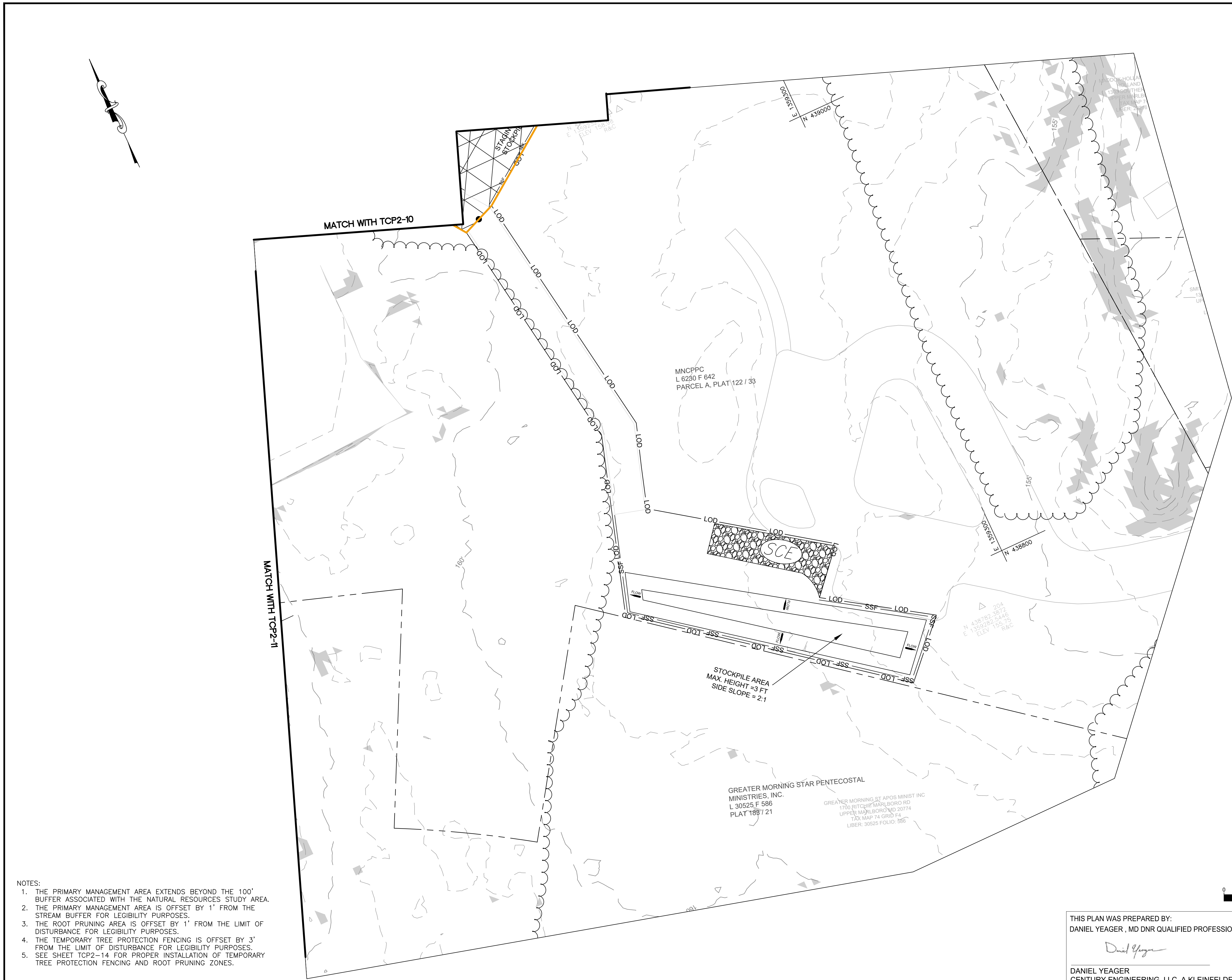
DEPARTMENT OF THE ENVIRONMENT



CAPITAL PROJECTS SECTION
STORMWATER MANAGEMENT
DIVISION

MCCARTHY PARK
STREAM RESTORATION
PRINCE GEORGE'S COUNTY, MARYLAND

TREE CONSERVATION PLAN 2
TCP2-10



VICINITY MAP
1" = 2000'
TAX MAP PAGE 74 GRID E4
COUNTY MAP PAGE X GRID XX
WSSC 200' SHEET NO. XXXXXXXX

EXISTING FEATURES

---	-380-	5' MAJOR CONTOUR	---	TOB	TOB	TOP OF BANK
---	FP	1' MINOR CONTOUR	---	SB	SB	75' STREAM BUFFER
---	FP	EXISTING 100YR FLOODPLAIN	---	WB	WB	NON-TIDAL WETLAND
---	SAN	EASEMENT LINE	---	PMA	PMA	25' NON-TIDAL WETLAND BUFFER
---	---	SEWER LINE WITH MANHOLE	---	---	---	PRIMARY MANAGEMENT AREA
---	---	STORM DRAIN WITH MANHOLE	---	---	---	EXISTING TREELINE
---	X	EXISTING FENCE	---	---	---	STEEP SLOPES ≥15%
---	UGE	EXISTING UGE LINE	---	---	---	ST-1
---	GAS	EXISTING GAS LINE	---	---	---	SPECIMEN TREE AND CRITICAL ROOT ZONE
---	---	PROPERTY BOUNDARY	---	---	---	---
---	---	EXISTING SIGN	---	---	---	---
---	---	EXISTING LIGHT POLE	---	---	---	---
---	---	EXISTING RIPRAP	---	---	---	---
---	---	EDGE OF PAVEMENT	---	---	---	---
---	---	EXISTING STRUCTURE	---	---	---	---

PROPOSED FEATURES

---	LOD	LIMIT OF DISTURBANCE	---	---	---	5' MAJOR CONTOUR
---	SSF	SUPER SILT FENCE	---	---	---	1' MINOR CONTOUR
---	---	STABILIZED CONSTRUCTION ENTRANCE	---	FP	FP	PROPOSED 100-YR FLOODPLAIN
---	---	TEMPORARY MULCH ACCESS ROAD	---	---	---	BOULDER STEP STRUCTURE (BSS)
---	---	SANDBAG DIVERSION	---	---	---	GRADE CONTROL LOG STRUCTURE (GCLS)
---	---	CLEAR WATER DIVERSION PIPE	---	---	---	LIVE BRUSH WATTLE (W)
---	---	DIVERSION HOSE	---	---	---	HABITAT ROUGHNESS FEATURE (HRF)
---	---	WATER DIVERSION PUMP	---	---	---	CLASS I CHANNEL BED MATERIAL
---	---	OUTLET PROTECTION	---	---	---	CLASS II CHANNEL BED MATERIAL
---	---	FILTER BAG	---	---	---	WETLAND DEPRESSIONAL AREA (WDA)
---	---	TREE TO BE REMOVED	---	---	---	TEMPORARY TREE PROTECTION FENCING
---	---	TREE PROTECTION PLANNING	---	---	---	REFORESTATION SIGN
---	---	ROOT PRUNING	---	---	---	RIPARIAN REFORESTATION 817 SF / 0.02 AC
---	---	TEMPORARY ACCESS BRIDGE	---	---	---	WOODLAND PLANTING AREA

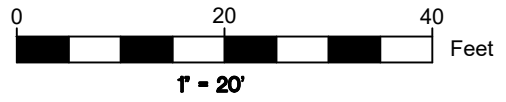
REFER TO DETAIL TCP-26 FOR ROOT PRUNING AND TREE PROTECTION FENCING.

- NOTES:
1. THE PRIMARY MANAGEMENT AREA EXTENDS BEYOND THE 100' BUFFER ASSOCIATED WITH THE NATURAL RESOURCES STUDY AREA.
 2. THE PRIMARY MANAGEMENT AREA IS OFFSET BY 1' FROM THE STREAM BUFFER FOR LEGIBILITY PURPOSES.
 3. THE ROOT PRUNING AREA IS OFFSET BY 1' FROM THE LIMIT OF DISTURBANCE FOR LEGIBILITY PURPOSES.
 4. THE TEMPORARY TREE PROTECTION FENCING IS OFFSET BY 3' FROM THE LIMIT OF DISTURBANCE FOR LEGIBILITY PURPOSES.
 5. SEE SHEET TCP2-14 FOR PROPER INSTALLATION OF TEMPORARY TREE PROTECTION FENCING AND ROOT PRUNING ZONES.

THIS PLAN WAS PREPARED BY:
DANIEL YEAGER, MD DNR QUALIFIED PROFESSIONAL

Daniel Yeager
DANIEL YEAGER
CENTURY ENGINEERING, LLC, A KLEINFELDER COMPANY
10710 GILROY RD., HUNT VALLEY, MD 21031
443-689-2670 / DYEAGER@CENTURYENG.COM

9/22/2023
DATE



DEPARTMENT OF THE ENVIRONMENT



CAPITAL PROJECTS SECTION
STORMWATER MANAGEMENT
DIVISION

McCARTHY PARK
STREAM RESTORATION
PRINCE GEORGE'S COUNTY, MARYLAND

TREE CONSERVATION PLAN 2
TCP2-11

PROPERTY OWNERS AWARENESS
CERTIFICATE: The Maryland-National Capital Park and Planning Commission

I/We 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.

Jennifer Bruneau
Owner or Owner's Representative
Dec 4, 2023
Date

PROPERTY OWNERS AWARENESS
CERTIFICATE: The Maryland-National Capital Park and Planning Commission

I/We 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.

Jennifer Bruneau
Owner or Owner's Representative
10/13/2023
Date

DWG.12 OF 14

CENTURY ENGINEERING
A KLEINFELDER COMPANY
10710 GILROY ROAD, HUNT VALLEY, MD 21031
PHONE: 443-589-2400

TYPE 2 TREE CONSERVATION (TCP2) PLAN APPROVAL BLOCK

Prince George's County Planning Department, M-NCPPC Environmental Planning Section
TYPE 2 TREE CONSERVATION PLAN APPROVAL
TCP2-043-2022

Approved by	Date	DRD #	Reason for Revision
00 Mary Bea	12/7/2023		N/A
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GENERAL NOTES

1. THIS SITE IS ZONED R-0-S AND IS LOCATED IN ENVIRONMENTAL STRATEGY AREA 2 IN ACCORDANCE WITH PLAN 2035.
2. THE SOURCE OF THE PROPERTY BOUNDARIES ON THIS PLAN IS FROM STATE PROPERTY LAYER.
3. THE TOPOGRAPHY SHOWN WITHIN THE SURVEY AREA ON THIS PLAN IS FROM INFORMATION WAS OBTAINED VIA SURVEY FROM A.B. CONSULTANTS IN NOVEMBER 2021 TOPOGRAPHY OUTSIDE OF THE SURVEY AREA BOUNDARY IS FROM STATE LIDAR.
4. THE SOURCE OF THE SOILS INFORMATION ON THIS PLAN IS FROM THE USDA NRCS WEB SOIL SURVEY (WSS) IN A CUSTOM SOIL RESOURCE REPORT FOR AN AREA OF INTEREST (AOI) ESTABLISHED FOR THE SUBJECT SITE ONLY AND GENERATED ON JULY 28, 2021, AND CURRENT PRINCE GEORGE'S SOIL CONSERVATION DISTRICT SOIL EROSION AND SEDIMENT CONTROL - POND SAFETY REFERENCE MANUAL.
5. A COUNTY REGULATED 100-YEAR FLOODPLAIN IS LOCATED ON THE WESTERN PORTION OF THE STUDY AREA. THE FLOODPLAIN IS BASED ON THE HYDRAULIC MODELING AND FLOODPLAIN DELINEATION PREPARED FOR THIS PROJECT, WHICH IS LIMITED TO ONLY ONE TRIBUTARY (S004) DUE TO IT BEING THE ONLY TRIBUTARY WITH DRAINAGE AREA GREATER THAN 50 ACRES.
6. THE WETLAND AND STREAM INFORMATION ON THIS PLAN IS FROM A STUDY PREPARED BY DANIEL YEAGER, CP AND KINCADE STIREX OF CENTURY ENGINEERING INC., A KLEINFELDER COMPANY DATED JUNE 8 AND JUNE 9, 2021.
7. THIS SITE DOES NOT CONTAIN WETLANDS OF SPECIAL STATE CONCERN AS DEFINED IN COMAR 26.23.06.01.
8. THIS SITE IS NOT LOCATED WITHIN A TIER II CATCHMENT AND DOES NOT CONTAIN A TIER II WATERBODY AS DEFINED IN COMAR 26.08.02.04. THIS SITE IS LOCATED WITHIN AN IMPAIRED WATERSHED (WESTERN BRANCH PATUXENT RIVER TIDAL FRESH) WITH A TOTAL MAXIMUM DAILY LOAD (TMDL) ALLOCATED FOR SEDIMENT, PSSOD RESERVES THE RIGHT TO RESTRICT DISTURBANCE TO ANY ONSITE OR OFFSITE TIER II BUFFER OR BUFFERS FOR IMPAIRED WATERS.
9. THIS SITE IS NOT LOCATED WITHIN A STRONGHOLD WATERSHED AS ESTABLISHED BY THE MD DNR. IN A LETTER DATED SEPTEMBER 6, 2021 THE MARYLAND DEPARTMENT OF NATURAL RESOURCES NATURAL HERITAGE PROGRAM HAS DETERMINED THAT THERE ARE NO CRITICAL STATE OF FEDERAL RECORDS FOR LISTED PLANT OR ANIMAL SPECIES WITHIN THE DELINEATED AREA.
10. THE SITE DOES NOT INCLUDE FOREST INTERIOR DWELLING SPECIES HABITAT.
11. THE SITE IS NOT SUBJECT TO PREVIOUSLY APPROVED TCP, TO THE SOUTH AND EAST OF THE PROJECT AREA WITHIN THE 100' STUDY AREA BUFFER IS A PREVIOUSLY APPROVED TCP1 (TCP1-067-97) AND A PREVIOUSLY APPROVED TCP2 (TCP2-053-02).
12. THERE ARE 118 SPECIMEN TREES LOCATED WITHIN THE PROJECT AREA. THESE TREES WERE LOCATED USING SURVEYED LOCATIONS.
13. THE SUBJECT PROPERTY IS NOT WITHIN A SCENIC RESOURCES POLICY AREA.
14. RITCHIE MARLBORO ROAD, ALONG THE SOUTHERN PORTION OF THE STUDY AREA, IS IDENTIFIED AS A HISTORIC ROAD.
15. THE SUBJECT PROPERTY IS NOT LOCATED WITHIN A REGISTERED HISTORIC DISTRICT.
16. THERE ARE NO KNOWN ARCHEOLOGICAL SITES LOCATED ON THE SUBJECT PROPERTY; HOWEVER THE SUBJECT PROPERTY HAS NOT BEEN SURVEYED FOR ARCHEOLOGICAL RESOURCES AND A PHASE I ARCHEOLOGY REPORT MAY BE REQUIRED FOR SUBSEQUENT REVIEW PROCESSES.
17. MARLBORO CLAY AND CHRISTIANA CLAY ARE NOT FOUND TO OCCUR ON OR WITHIN THE VICINITY OF THIS PROPERTY.
18. RITCHIE MARLBORO ROAD, ALONG THE SOUTHERN PORTION OF THE STUDY AREA, IS IDENTIFIED AS AN ARTERIAL.
19. THE SUBJECT PROPERTY IS NOT LOCATED WITHIN THE 2009 JOINT BASE ANDREWS NOISE CONTOURS.
20. THE SITE IS NOT LOCATED WITHIN AN AVIATION POLICY AREA (APA).
21. THE SITE IS NOT LOCATED WITHIN THE CHESAPEAKE BAY CRITICAL AREA (CBCA).
22. THE ENTIRETY OF THIS PROPERTY WAS NOT ANALYZED AS PART OF THIS PLAN. FUTURE APPLICATIONS SHOWING DISTURBANCE OUTSIDE THE LIMITS OF THIS NRI MAY BE REQUIRED TO SUBMIT MORE INFORMATION AND/OR A FULL NRI.

TCP 2 - GENERAL NOTES

1. THIS PLAN IS SUBMITTED TO FULFILL WOODLAND CONSERVATION REQUIREMENTS FOR A GRADING PERMIT ASSOCIATED WITH A DOE PROJECT LOCATED ON MNCPPC PARK PROPERTY CALLED MCCARTHY PARK, LARGO, MARYLAND.
2. THE PROJECT DESCRIPTION: PRINCE GEORGE'S COUNTY DEPARTMENT OF THE ENVIRONMENT (DOE) HAS CONTRACTED CENTURY ENGINEERING, LLC, A KLEINFELDER COMPANY (CENTURY) TO PROVIDE ENGINEERING DESIGN AND CONTRACTING SERVICES TO RESTORE APPROXIMATELY 3,770 LINEAR FEET (LF) OF FIVE (5) UNNAMED TRIBUTARIES TO WESTERN BRANCH LOCATED WITHIN MCCARTHY PARK, A MARYLAND-NATIONAL PARKS AND PLANNING COMMISSION (M-NPPC) PROPERTY, IN LARGO, MARYLAND.
3. THIS PROJECT IS SUBJECT TO THE AMENDED AND RESTATED MEMORANDUM OF UNDERSTANDING - WATERSHED IMPLEMENTATION PLAN BY AND BETWEEN PRINCE GEORGE'S COUNTY (THE "COUNTY") AND THE MARYLAND-NATIONAL CAPITAL PARK AND PLANNING COMMISSION (THE "COMMISSION") ON PROPERTY OWNED AND/OR MANAGED BY THE DEPARTMENT OF PARKS AND RECREATION (DPR).
4. THE COUNTY IS SUBJECT TO THIS TREE CONSERVATION PLAN, PREPARED FOR A WATERSHED IMPLEMENTATION PLAN PROJECT LOCATED ON COMMISSION/DPRI PROPERTY AND IS RESPONSIBLE FOR IMPLEMENTATION AND CONFORMANCE TO THE REQUIREMENTS CONTAINED HEREIN.
5. WOODLAND CONSERVATION REQUIREMENTS FOR THE PROPOSED DEVELOPMENT ACTIVITY SHALL BE PROVIDED WITH THIS TCP2 PLAN CONSISTENT WITH THE PRIORITIES ESTABLISHED IN THE SUBTITLE 25, DIVISION 2, WOODLAND AND WILDLIFE HABITAT CONSERVATION ORDINANCE AND THE ENVIRONMENTAL TECHNICAL MANUAL.
6. THIS PLAN IS NOT GRANDFATHERED UNDER CB-27-2010, SECTION 25-119 (G). IF A TCP2 PLAN IS NOT GRANDFATHERED, THE PROJECT SITE IS SUBJECT TO APPROVAL OF A SUBTITLE 25, VARIANCE FOR THE REMOVAL OF SPECIMEN, CHAMPION, AND HISTORIC TREES.
7. A PRE-CONSTRUCTION MEETING IS REQUIRED PRIOR TO THE COMMENCEMENT OF ANY CLEARING, GRADING, OR CONSTRUCTION ACTIVITIES. THE COUNTY SHALL SCHEDULE AN ON-SITE PRE-CONSTRUCTION MEETING WITH COMMISSION REPRESENTATIVES AND PROVIDE A MINIMUM OF FORTY-EIGHT (48) HOURS NOTICE.
8. CUTTING OR CLEARING OF WOODLAND NOT IN CONFORMANCE WITH THIS PLAN OR WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE DEPARTMENT OF PARKS AND RECREATION, OR DESIGNATE SHALL BE SUBJECT TO A \$9.00 PER SQUARE FOOT MITIGATION FEE TO BE PAID TO THE WOODLAND CONSERVATION FUND.
9. THE PROJECT IS NOT LOCATED ON PARKLAND WHICH WAS PURCHASED WITH CAPPER-CRAMTON FUNDS.
10. THE COMMISSION HAS ACCEPTED THIS PROJECT AND DETERMINED THAT THE PROJECT IMPOSES A LOW IMPACT TO THE FUNCTIONALITY OF THE WATERSHED AND THE APPROPRIATE DESIGN REVIEW PROCESS.
11. THE PROPERTY IS WITHIN THE ENVIRONMENTAL STRATEGY AREA 2 OF PLAN PRINCE GEORGE'S 2035 (FORMERLY THE DEVELOPING TIER).
12. THE PROJECT SITE IS ZONED R-0-S (RESERVED OPEN SPACE).
13. THIS SITE IS NOT ADJACENT TO A SCENIC, HISTORIC, A PARKWAY OR A SCENIC BYWAY.
14. THIS PROJECT IS LOCATED WITHIN THE SOUTHWEST BRANCH DOE SUBWATERSHED, THE WESTERN BRANCH DNR (02131103) SUBWATERSHED, AND THE PATUXENT RIVER BASIN.

AFFORESTATION AND REFORESTATION NOTES

1. 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.
2. THE PLANTING OF AFFORESTATION OR REFORESTATION AREAS SHALL BE COMPLETED PRIOR TO THE ISSUANCE OF THE FIRST BUILDING PERMIT. (THIS STANDARD NOTE MAY BE MODIFIED AS NECESSARY TO ADDRESS WHICH BUILDING PERMITS ARE ADJACENT TO THE PROPOSED PLANTING AREA). 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.
3. 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.
4. REFORESTATION AREAS SHALL NOT BE MOVED. THE MANAGEMENT OF COMPETING VEGETATION AROUND INDIVIDUAL TREES AND THE REMOVAL OF NOXIOUS, INVASIVE, AND NON-NATIVE VEGETATION WITHIN THE REFORESTATION AREAS IS ACCEPTABLE.
5. 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.
6. 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.
7. THE COUNTY INSPECTOR SHALL BE NOTIFIED PRIOR TO SOIL PREPARATION OR INITIATION OF ANY TREE PLANTING ON THIS SITE.
8. AT TIME OF ISSUANCE OF THE FIRST PERMIT, THE FOLLOWING INFORMATION SHALL BE SUBMITTED TO THE M-NPPC 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-NPPC, PLANNING DEPARTMENT.
9. 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.

PLANTING SPECIFICATION NOTES

1. QUANTITY: (SEE PLANT SCHEDULE)
2. TYPE: (SEE PLANT SCHEDULE)
3. 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 ROOTS WHERE THE ROOTS MEET THE TRUNK) 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).
4. PLANTS THAT DO NOT HAVE AN ABUNDANCE OF WELL DEVELOPED TERMINAL BUDS ON THE LEADERS AND BRANCHES SHALL BE REJECTED.
5. 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.
6. 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.
7. 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.
8. 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.
9. SEEDLING PLANTING: TREES SEEDLINGS SHALL BE HAND PLANTED USING A DOBBLE 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. MOST SOIL SHOULD THEN BE PACKED FIRMLY AROUND THE ROOTS. SEEDLINGS SHOULD NOT BE LEFT AFTER CHECKING THE HOLE WHICH WOULD ALLOW THE ROOTS TO DRY OUT. USE 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.
10. 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.
11. 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. TREE SEEDLINGS 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.
12. SOIL IMPROVEMENT MEASURES: THE SOIL SHALL THEN BE IMPROVED ACCORDING TO THE RECOMMENDATIONS MADE BY THE TESTING COMPANY.
13. 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 THIS SHEET.
14. PLANTING METHOD: CONSULT THE PLANTING DETAILS(S) SHOWN ON THIS PLAN.
15. MULCHING: APPLY TWO-INCH THICK LAYER OF WOODCHIP OR SHREDED HARDWOOD MULCH (AS NOTED) TO EACH PLANTING SITE (SEE DETAIL SHOWN ON THIS PLAN).
16. GROUNDCOVER ESTABLISHMENT: THE REMAINING DISTURBED AREA BETWEEN SEEDLING PLANTING SITES SHALL BE SEEDDED AND STABILIZED WITH WHITE CLOVER SEED AT THE RATE OF 5 LBS/ACRE.
17. MOWING: NO MOWING SHALL BE ALLOWED IN ANY PLANTING AREA.
18. 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.
19. SOURCE OF SEEDLINGS: STATE NAME, ADDRESS, AND PHONE NUMBER OF NURSERY OR SUPPLIER.

NATURAL REGENERATION NOTES

- ALL AREAS DESIGNATED FOR REFORESTATION SHALL BE REFORESTED BY NATURAL REGENERATION. THE FOLLOWING REQUIREMENTS AND CONDITIONS APPLY:
1. ALL EXISTING TURF, GROUND COVERS, AND INVASIVE SPECIES SHALL BE EXTERMINATED USING A GENERAL BROADCAST HERBICIDE SUCH AS "ROUND-UP" OR EQUIVALENT. SECONDARY APPLICATIONS SHALL BE APPLIED AS NECESSARY.
 2. CARE SHALL BE TAKEN TO AVOID SPRAYING ANY HARDWOOD SEEDLINGS OR SAPLINGS.
 3. ROTO-TILLING OF TURF AREAS AND MANUAL REMOVAL OF INVASIVE WEEDS SHALL BE COMPLETED TWO WEEKS AFTER CHEMICAL TREATMENTS ARE COMPLETED.
 4. REFORESTATION SIGNS SHALL BE INSTALLED EVERY FIFTY FEET OR AS APPROPRIATE AND TWO STRAND WIRE FENCING SHALL BE INSTALLED AROUND EACH PLANTING AREA.
 5. REFORESTATION INTERNAL TO THE SITE SHALL BE POSTED AS REQUIRED IN THE DIRECTION OF ANY TRAILS USED TO REACH THOSE AREAS.
 6. NATURAL REGENERATION SHALL BE ENCOURAGED BY SEMI-ANNUAL MAINTENANCE OF THE DESIGNATED AREAS. THE MAINTENANCE SHALL, AT A MINIMUM, REQUIRE REMOVAL OF COMPETITIVE AND INVASIVE SPECIES FROM THE DESIRED INDIGENOUS HARDWOODS. THIS MAINTENANCE SHALL OCCUR FOR A PERIOD OF TWO YEARS.
 7. SEEDLING SURVIVAL CHECKS SHALL BE CONDUCTED FOR EACH PLANTING AREA. DEAD AND FLAGGED SURVEYORS TAPE IN THE LATE FALL.
 8. IF AFTER TWO YEARS THERE IS LESS THAN ONE SEEDLING PER 60 SQUARE FEET AND THERE ARE INDICATIONS THAT NATURAL REGENERATION IS NOT OCCURRING ADEQUATELY, THE CONTRACTOR SHALL PLANT THOSE AREAS WITH CONTAINER GROWN SEEDLINGS AT A RATE OF ONE PER 60 SQUARE FEET. ONLY NATURALLY OCCURRING SPECIES ALREADY PRESENT WITHIN THE SITE SHALL BE USED.

FOUR-YEAR MANAGEMENT PLAN FOR REAFFORESTATION AREAS

FIELD CHECK THE RE-AFFORESTATION AREA ACCORDING TO THE FOLLOWING SCHEDULE:

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| 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) |
1. 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.
 2. 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.
 3. 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.

OFF-SITE WOODLAND CONSERVATION AND FEE-IN-LIEU NOTES

1. NO OFF-SITE WOODLAND CONSERVATION OR FEE-IN-LIEU ARE REQUIRED. ALL FOREST CLEARING WILL BE MITIGATED VIA ON-SITE REFORESTATION.

INVASIVE PLANT SPECIES REMOVAL NOTES

1. INVASIVE PLANT REMOVAL SHALL BE COMPLETED PRIOR TO PLANTING AND CONFORM TO THE RECOMMENDATIONS OF THE INVASIVE PLANT REMOVAL NOTES DISCUSSED ON THE USK DESIGN LANDSCAPE PLAN SHEET UN-01 PREPARED BY CENTURY. THE PLANS WERE REVIEWED BY KAREN BOWMAN (CP) AND MICHAEL PIERANUNZI (LA).
2. THE REMOVAL OF NOXIOUS, INVASIVE, AND NON-NATIVES PLANT SPECIES SHALL BE DONE WITH THE USE OF HAND-HELD EQUIPMENT ONLY SUCH AS PRUNING 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, THIS ENCOURAGING DECOMPOSITION.
3. 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.

VIRGINIA PINE NOTES

1. NO VIRGINIA PINES WERE OBSERVED ON-SITE.

TCP 2 - ADDITIONAL NOTES

1. THE COUNTY AND THE COMMISSION/DPRI SHALL PARTICIPATE IN A PRE-CONSTRUCTION MEETING PRIOR TO THE CONTRACTOR MOBILIZATION AND THE START OF ANY COMMENCEMENT OF CLEARING, GRADING, OR CONSTRUCTION ACTIVITIES. THE COUNTY SHALL SCHEDULE AN ON-SITE PRE-CONSTRUCTION MEETING WITH COMMISSION REPRESENTATIVES AND PROVIDE A MINIMUM OF FORTY-EIGHT (48) HOURS NOTICE.
2. THE COUNTY SHALL HAVE THE LIMITS OF DISTURBANCE (LOD) STAKED IN THE FIELD AFTER THE PRE-CONSTRUCTION MEETING. AN INSPECTION AFTER TAKEOUT SHALL BE PERFORMED BY COMMISSION/DPRI REPRESENTATIVES.
3. IMPACTS TO RESOURCES WERE MINIMIZED TO THE GREATEST EXTENT POSSIBLE WHILE STILL MAINTAINING THE GOALS OF THE PROJECT. WHILE IMPACTS TO TREES ARE UNAVOIDABLE, TREE REMOVAL WAS MINIMIZED TO THE GREATEST EXTENT PRACTICAL. TO FURTHER REDUCE IMPACTS TO FOREST RESOURCES, GRADING AND RESTORATION ACTIVITIES HAVE BEEN LIMITED TO A 30-45-FOOT WIDE CORRIDOR AND 4.73 ACRES OF TREE CLEARING. THE MAJORITY OF THE PROPOSED TREE REMOVALS WILL BE USED ON-SITE AS STABILIZATION STRUCTURES. THE HEALTH AND PROJECTED LONGEVITY OF THE EXISTING TREES PROPOSED FOR REMOVAL LOCATED ALONG THE STREAM BANKS ARE CURRENTLY BEING THREATENED DUE TO THE ACTIVE UNDERMINING OF THE STREAM BANKS. SHOULD THE TREES BE LEFT IN PLACE, OR THE STREAM NOT REPAIRED, IT IS LIKELY THESE TREES WOULD FALL AND INCREASE BANK EROSION AND SEDIMENT INPUTS. THE COMMISSION WILL ALSO ASSESS THE LIMIT OF DISTURBANCE (LOD) PRIOR TO CONSTRUCTION TO DETERMINE IF ADDITIONAL TREES CAN BE SAVED. AFTER CONSTRUCTION, THE PROJECT AREA WILL BE REPLANTED WITH NATIVE VEGETATION, INCLUDING TREE AND SHRUB SPECIES WITHIN THE RIPARIAN CORRIDOR AND HERBACEOUS PLUGS WITHIN THE FLOODPLAIN. A TEMPORARY PEDESTRIAN PATH WILL ALSO BE ACCESSIBLE FROM SIR LANCELOT DRIVE TO ALLOW THE PUBLIC TO MAINTAIN SAFE ACCESS TO THE PARK THROUGHOUT PROJECT CONSTRUCTION.
4. **WOODLAND PRESERVATION AND RETENTION NOTES**
 - A) ALL WOODLANDS DESIGNATED ON THIS PLAN FOR RETENTION OUTSIDE OF THE DESIGNATED LIMIT OF DISTURBANCE SHALL REMAIN IN A NATURAL STATE. THIS INCLUDES THE CANOPY TREES AND UNDERSTORY VEGETATION. A REVISED TREE CONSERVATION PLAN IS REQUIRED PRIOR TO CLEARING WOODLAND AREAS THAT ARE NOT SPECIFICALLY IDENTIFIED TO BE CLEARED ON THE APPROVED TCP2.
 - B) TREE AND WOODLAND CONSERVATION METHODS SUCH AS ROOT PRUNING SHALL BE CONDUCTED AS SPECIFIED AND NOTED ON THIS PLAN.
 - C) THE LOCATION OF ALL TEMPORARY TREE PROTECTION FENCING (TPFS) SHOWN ON THIS PLAN SHALL BE FLAGGED OR STAKED IN THE FIELD AND INSPECTED AFTER THE PRE-CONSTRUCTION MEETING. UPON APPROVAL OF THE LOCATIONS BY THE COMMISSION REPRESENTATIVE, INSTALLATION OF THE TPFS MAY BEGIN.
 - D) ALL TEMPORARY TREE PROTECTION FENCING (TPF) AND TEMPORARY CONSTRUCTION SIGNAGE REQUIRED BY THIS PLAN SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF CLEARING AND GRADING OF THE SITE AND SHALL REMAIN IN PLACE UNTIL THE COMPLETION OF THE PROJECT. FAILURE TO INSTALL AND MAINTAIN TEMPORARY OR PERMANENT TREE PROTECTIVE DEVICES IS A VIOLATION OF THIS TCP2.
5. **GROUNDCOVER ESTABLISHMENT**

THE REMAINING DISTURBED AREA SHALL BE SEEDDED AND STABILIZED TO ENHANCE THE HABITAT AND POLLINATOR VALUE OF THE SITE, WITH A POLLINATOR-FRIENDLY HERBACEOUS COVER MIX BE SELECTED FROM THE NRCS CONSERVATION PRACTICE STANDARD FOR CONSERVATION COVER (CODE 327). SELECTED LIST OF HERBACEOUS COVER MIXES BASED ON THE SPECIFIC CHARACTERISTICS OF THE SITE. THE MIXES AND SPECIES CONTAINED IN THE TABLE ARE FOCUSED ON HIGH DIVERSITY PLANTINGS TO SUPPORT WILDLIFE HABITAT, WITH SPECIAL CONSIDERATION FOR POLLINATORS AND BENEFICIAL INSECTS, CONSISTENT WITH USDA BIOLOGY TECHNICAL NOTE NO. 78, 2ND EDITION. USING 2014 FARM BILL PROGRAMS FOR POLLINATOR CONSERVATION, OR MOST CURRENT RECOMMENDATION FROM NRCS PRACTICE STANDARDS.
6. **POST-CONSTRUCTION REQUIREMENTS AND CORRECTIVE MEASURES**

WHEN POST CONSTRUCTION PROJECT MONITORING HAS COMPLIED WITH THE TERMS OF ALL PERMITS ISSUED BY REGULATORY AGENCIES, AND THE PROJECT HAS BEEN FOUND SUBSTANTIALLY COMPLETE, THE COUNTY WILL NOTIFY THE COMMISSION /DPRI AND WILL ARRANGE FOR A FINAL MEETING AND/OR JOINT INSPECTION. THE COUNTY WILL BE SOLELY RESPONSIBLE FOR COORDINATING, DESIGNING AND IMPLEMENTING ANY REQUIRED CORRECTIVE MEASURES.

POST DEVELOPMENT: WOODLAND AND/OR SPECIMEN, HISTORIC OR CHAMPION TREES TO REMAIN NOTES

1. 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 THEN REMOVE THE TREE. THE STUMP SHALL BE CUT 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. THIS ENCOURAGING DECOMPOSITION.
2. 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 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, THIS ENCOURAGING DECOMPOSITION.
3. 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. D. 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.

GENERAL LANDSCAPING AND MAINTENANCE NOTES:

GENERAL NOTES -

1. NURSERY GROWN PLANT MATERIAL SHOULD MEET OR EXCEED THE REQUIREMENTS OF THE AMERICAN NURSERY & LANDSCAPE ASSOCIATION'S (A.N.L.A.) LATEST EDITION OF "AMERICAN STANDARD FOR NURSERY STOCK" (ANSI Z60.1) (THE COUNTY SHALL HAVE THE LIMITS OF DISTURBANCE (LOD) STAKED IN THE FIELD AFTER THE PRE-CONSTRUCTION MEETING. AN INSPECTION AFTER TAKEOUT SHALL BE PERFORMED BY COMMISSION/DPRI REPRESENTATIVES).
2. 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 SOIL ON THE SITE ARE APPROPRIATE COMPOSITION AND PH LEVELS 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.

PLANT MATERIAL SELECTION -

1. THE CONTRACTOR SHALL FURNISH PLANT MATERIALS IN SIZES AND QUANTITIES SPECIFIED IN THE PLANT SCHEDULES.
2. ALL PLANTING MATERIAL SHALL BE SOURCED FROM WITHIN 100 MILES OF THE SITE.
3. NO SUBSTITUTIONS SHALL BE MADE WITHOUT THE WRITTEN CONSENT OF THE OWNER AND/OR LANDSCAPE ARCHITECT.

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. THE CONTRACTOR IS REQUIRED TO OBTAIN CLEAN FRESH WATER FOR USE DURING PLANTING OPERATIONS AND THE SUBSEQUENT MAINTENANCE PERIOD.

SITE PREPARATION AND PLANTING -

1. THE SITE AND AREAS IMMEDIATELY ADJACENT (WITHIN 25' OF) THE LOD SHALL BE TREATED FOR INVASIVE SPECIES PRIOR TO THE START OF CONSTRUCTION.
2. TREE PROTECTION FENCING DETAIL CAN BE FOUND ON E&S NOTE AND DETAIL SHEET EN-04.
3. 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.
4. 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 BY AN APPROPRIATE METHOD. 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.
5. ANY TREES THAT ARE TO REMAIN THAT ARE DAMAGED DURING THE CLEARING OPERATION MUST BE REPAIRED OR REMOVED AND REPLACED IN AN APPROPRIATE MANNER BY AN MNLTE/ISA CERTIFIED ARBORIST PRINCE GEORGE'S COUNTY OR A M-NPPC REPRESENTATIVE AS SOON AS FINAL CLEARING HAS BEEN COMPLETED.
6. ROOT PRUNING MAY BE NECESSARY WHERE THE CRITICAL ROOT ZONE IS IMPACTED, AS DETERMINED BY THE PLAN PREPARED BY AN MNLTE/ISA CERTIFIED ARBORIST. PRUNING SHALL BE ALONG THE LOD ADJACENT TO TREE PROTECTION FENCING. A CERTIFIED ARBORIST SHALL SUPERVISE OR CONDUCT ROOT PRUNING.
7. REFER TO THE MOSHA 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.
8. MOW PLANTING AREA CLOSE TO THE GROUND ONE WEEK (OR LESS) PRIOR TO CONTAINER PLANTING DATE.
9. SOIL CONDITIONS MUST BE TESTED, VERIFIED, AND ADJUSTED BY THE LANDSCAPE CONTRACTOR TO INSURE THAT APPROPRIATE SOIL COMPOSITION AND PH LEVELS ARE SUITABLE FOR PLANT MATERIALS SPECIFIED FOR THAT SPECIFIC LOCATION.
10. PREPARE PLANTING PITS PER DETAILS AS SHOWN MOSHA STANDARDS AND SPECIFICATIONS SECTION 710.03.04.
11. INSTALL PLANT MATERIALS PER MOSHA STANDARDS AND SPECIFICATIONS 710.03.09.
12. 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.
13. 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 MOSHA STANDARDS AND SPECIFICATIONS SECTION 710.03.04(C).

MAINTENANCE -

1. 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:
 - 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 THROUGH SELECTED AND APPROVED MEANS.
 - c. ALL MAN-MADE MATERIALS SHALL BE REMOVED FROM THE SITE WHICH WOULD IMPACT THE ESTABLISHMENT OF THE PLANTED MATERIALS.
 - d. 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 IDENTICAL SPECIES OR AN APPROVED REPLACEMENT.
 - f. AT THE END OF THE 2 YEAR MAINTENANCE PERIOD, THE SITE SHALL BE INSPECTED FOR THE 85% SURVIVAL RATE AS REQUIRED BY PRINCE GEORGE'S COUNTY AND M-NPPC.

PROPERTY OWNERS AWARENESS
CERTIFICATE. The Maryland-National Capital
Park and Planning Commission

I/We
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.

Jennifer Brunneau
Owner or Owner's Representative

Date 4, Dec 2023
jennifer.brunneau@gpparks.com

Date 10/13/2023

PROPERTY OWNERS AWARENESS
CERTIFICATE.

I/We
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.

Jennifer Brunneau
Owner or Owner's Representative

Date 10/13/2023

Date 10/13/2023

DWG. 13 OF 14

CENTURY
ENGINEERING
A KLEINFELDER COMPANY

10710 GILROY ROAD, HUNT VALLEY, MD 21031
PHONE: 443-589-2400

TYPE 2 TREE CONSERVATION (TCP2) PLAN
APPROVAL BLOCK

Prince George's County Planning Department, M-NPPC Environmental Planning Section TYPE 2 TREE CONSERVATION PLAN APPROVAL TCP2-043-2022			
Approved by	Date	DRD #	Reason for Revision
00 Mary Rea	12/7/2023		N/A
01			
02			
03			
04			
05			

DEPARTMENT OF THE ENVIRONMENT



CAPITAL PROJECTS SECTION
STORMWATER MANAGEMENT
DIVISION

MCCARTHY PARK
STREAM RESTORATION
PRINCE GEORGE'S COUNTY, MARYLAND

TREE CONSERVATION PLAN 2
NOTES

Woodland Conservation Summary Table	Total
Gross Tract Area	5.94 AC
Existing 100 yr Floodplain	1.63 AC
Net Tract Area	4.31 AC
Existing Woodland in the Floodplain	1.26 AC
Existing Woodland Net Tract	3.47 AC
Cleared Woodland in the Floodplain	1.26 AC
Woodland cleared Off-Site	0.00 AC
Woodland Preservation Area	0.00 AC
Woodland Reforestation Area	4.81 AC
Woodland Retained Not Credited	0.00 AC
Woodland Retained Assumed Cleared	0.00 AC
Existing PMA	4.85 AC
Regulated Streams (LF of centerline)	3,973 LF

DELINEATED RESOURCES WITHIN THE LIMIT OF DISTURBANCE

RESOURCE TYPE	RESOURCE NAME	CLASSIFICATION	AREA SF/AC	LENGTH (LF)
Wetland	Wetland 2	PFO1E	160 / 0.004	-
Waterway	S001 - Perennial	R2UB1/2	531 / 0.01	147
Waterway	S002 - Intermittent	R4SB3/4	2,729 / 0.06	710
Waterway	S003 - Intermittent	R4SB3/4	5,291 / 0.12	1,458
Waterway	S004 - Perennial	R2UB1/2	3,151 / 0.07	361
Waterway	S005 - Intermittent	R4SB3/4	2,291 / 0.05	702
Waterway	S006 - Intermittent	R4SB3/4	1,317 / 0.03	420
Waterway	S007 - Intermittent	R4SB3/4	341 / 0.01	68
Waterway	S008 - Intermittent	R4SB3/4	503 / 0.01	108

TABLE B-1. GENERAL INFORMATION TABLE

LAYER CATEGORY	LAYER NAME	VALUE
Zone	Zoning (Zone)	R-O-S (Reserved Open Space)
Zone	Aviation Policy Area (APA)	N/A
Administrative	Tax Grid (TMG)	74-E3
Administrative	WSSC Grid (Sheet 20)	2025E08 & 2025E09
Administrative	Planning Area (Plan Area)	3-73 Largo-Lottsford
Administrative	Election District (ED)	13
Administrative	Councilmanic District (CD)	6
Administrative	General Plan 2002 Tier (Tier)	Developing
Administrative	General Plan Growth Policy (2035)	Established Communities
Administrative	Police District	II

SPECIMEN TREES (≥30")

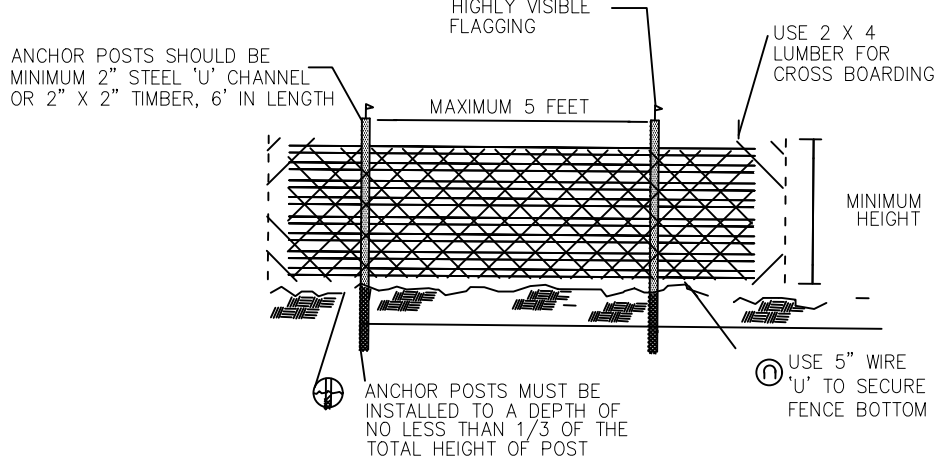
NUMBER	SPECIES	DBH	CONDITION	NOTES	DIPOSITION	PROTECTION TYPE
ST-9	Tulip tree (<i>Liriodendron tulipifera</i>)	41	Fair	Large vines, poison ivy and on stream bank	To Be Removed	-
ST-10	American sycamore (<i>Platanus occidentalis</i>)	30.6	Fair	On stream bank	To Be Removed	-
ST-11	Tulip tree (<i>Liriodendron tulipifera</i>)	31	Fair	Poison ivy present and on stream bank	To Be Removed	-
ST-17	Tulip tree (<i>Liriodendron tulipifera</i>)	38.5	Fair	On stream bank	To Be Removed	-
ST-19	American sycamore (<i>Platanus occidentalis</i>)	33	Poor	Located on stream bank and heavy vines present	To Be Removed	-
ST-22	Tulip tree (<i>Liriodendron tulipifera</i>)	30	Fair	Significant vine and poison ivy presence	To Be Removed	-
ST-23	Tulip tree (<i>Liriodendron tulipifera</i>)	33	Fair	Erosion around roots and along stream bank. Triplet with two leaders <30"	To Be Removed	-
ST-37	Tulip tree (<i>Liriodendron tulipifera</i>)	38	Fair	Located on stream bank and large vines present	To Be Removed	-
ST-52	American sycamore (<i>Platanus occidentalis</i>)	32.3	Fair	Located on stream bank. Twin with ST53	To Be Removed	-
ST-53	American sycamore (<i>Platanus occidentalis</i>)	32	Fair	Located on stream bank. Twin with ST52	To Be Removed	-
ST-58	Tulip tree (<i>Liriodendron tulipifera</i>)	36	Fair	Located on stream bank and large vines present	To Be Removed	-
ST-59	Tulip tree (<i>Liriodendron tulipifera</i>)	39	Good		To Be Removed	-
ST-61	Tulip tree (<i>Liriodendron tulipifera</i>)	36.8	Good		To Be Removed	-
ST-62	Tulip tree (<i>Liriodendron tulipifera</i>)	50	Fair	Located on stream bank. Twin with one leader <30"	To Be Removed	-
ST-65	Tulip tree (<i>Liriodendron tulipifera</i>)	42.5	Fair	Located on stream bank and dead leader. Twin with one leader <30"	To Be Removed	-
ST-66	Tulip tree (<i>Liriodendron tulipifera</i>)	41	Fair	Located on stream bank	To Be Removed	-
ST-76	Tulip tree (<i>Liriodendron tulipifera</i>)	38.6	Good		To Be Removed	-
ST-82	Tulip tree (<i>Liriodendron tulipifera</i>)	33.4	Good		To Be Removed	-
ST-83	Tulip tree (<i>Liriodendron tulipifera</i>)	30	Poor	Root rot and located on edge of stream bank	To Be Removed	-
ST-84	Tulip tree (<i>Liriodendron tulipifera</i>)	40.9	Fair	Located on stream bank	To Be Removed	-
ST-87	Tulip tree (<i>Liriodendron tulipifera</i>)	34	Fair	Large vines and poison ivy present	To Be Removed	-
ST-88	Tulip tree (<i>Liriodendron tulipifera</i>)	58	Fair	Bark rot, located on stream bank and large vines present	To Be Removed	-
ST-89	Tulip tree (<i>Liriodendron tulipifera</i>)	35	Good		To Be Removed	-
ST-96	Tulip tree (<i>Liriodendron tulipifera</i>)	30	Fair	Large vines present and located on stream bank. Triplet with two leaders <30"	To Be Removed	-
ST-97	Tulip tree (<i>Liriodendron tulipifera</i>)	34.5	Good		To Be Removed	-
ST-98	Tulip tree (<i>Liriodendron tulipifera</i>)	35.5	Fair	Located on stream bank and bark rot	To Be Removed	-
ST-99	Tulip tree (<i>Liriodendron tulipifera</i>)	46.2	Fair	Located on stream bank and bark rot	To Be Removed	-
ST-100	American sycamore (<i>Platanus occidentalis</i>)	34.9	Fair	Located on stream bank. Twin with one leader <30"	To Be Removed	-
ST-103	Tulip tree (<i>Liriodendron tulipifera</i>)	35.6	Fair	Vines in canopy	To Be Removed	-
ST-105	Tulip tree (<i>Liriodendron tulipifera</i>)	38.7	Fair	Heavy vines	To Be Removed	-
ST-113	Tulip tree (<i>Liriodendron tulipifera</i>)	37.8	Good		To Be Removed	-
ST-115	Tulip tree (<i>Liriodendron tulipifera</i>)	35.2	Poor	Large cavities and bark rot	To Be Removed	-
ST-116	Tulip tree (<i>Liriodendron tulipifera</i>)	31	Fair	Heavy vines and poison ivy present	To Be Removed	-
ST-117	Tulip tree (<i>Liriodendron tulipifera</i>)	30	Good		To Be Removed	-
ST-118	Black walnut (<i>Juglans nigra</i>)	36	Poor	Large vines present, bark rot and located on steep slope. Twin with one leader <30"	To Be Removed	-

Note: This plan is approved in accordance with the following variance from the strict requirements of Subtitle 25 approved by the Planning Director on 12/1/2023: The removal of 35 specimen trees (Section 25-122(b)(1)(G)), labeled as ST-9, ST-10, ST-11, ST-17, ST-19, ST-22, ST-23, ST-37, ST-52, ST-53, ST-58, ST-59, ST-61, ST-62, ST-65, ST-66, ST-76, ST-82, ST-83, ST-84, ST-87, ST-88, ST-89, ST-96, ST-97, ST-98, ST-99, ST-100, ST-103, ST-105, ST-113, ST-115, ST-116, ST-117, ST-118.

Woodland Conservation Worksheet for Governmental and Linear Projects in Prince George's County			
SECTION 1-Establishing Site Information			
1) Property Description or Name:	MCCARTHY PARK STREAM RESTORATION PROJECT (S-29)		
2) Project Location:	Upper Marlboro		
3) TCP2 Number:	TCP2-043-2022	Rev. No:	
4) NRI Number:	NRI-043-2022	Rev. No:	
5) Zone:			
6) Gross Tract:	5.94 acres		
7) Project Area/Limits:	5.94 acres		
SECTION 2-Determining Requirements			
8) Existing Woodland in Project Limits = VCT	4.73	or	79.63%
9) Woodland Cleared in Project Limits	4.73		
10) Total area of woodland cleared (subject to 1:1 replacement)	4.73		
11) Off-Site Woodland Conservation Provided (afforestation)	0.00		
12) Off-Site Woodland Conservation Provided (preservation)	0.00		
13) Woodland Conservation Requirement:	4.73 acres		
SECTION 3-Meeting the Requirements			
14) Woodland Preserved	0.00		
15) Afforestation/Reforestation	4.81	Bond amount:	\$ 62,857.08
16) Natural Regeneration	0.00		
17) Landscape Credit	0.00		
18) Specimen/Historic Tree Credit (CRZ area *2.0)	0.00		
19) Forest Enhancement Credit (Area * 25)	0.00		
20) Street Tree Credit (Existing or 10-year canopy coverage)	0.00		
21) Prior Credit for Off-site Woodland Conservation	0.00		
22) Current Credit for Off-site Woodland Conservation	0.00		
23) Off-site Woodland Conservation provided (afforestation)	0.00		
24) Off-site Woodland Conservation provided (preservation)	0.00		
25) Area Approved for Fee-in-lieu/PFA	0.00	Fee amount:	\$0.00
26) Area Approved for Fee-in-lieu/non-PFA	0.00	Fee amount:	\$0.00
27) Woodland Conservation Provided	4.81 acres		
28) Prepared by: <i>Daniel Yeager</i>		9/22/2023	
Signed		Date	

NOTE: THIS PLAN IS APPROVED IN ACCORDANCE WITH THE FOLLOWING VARIANCE FROM THE STRICT REQUIREMENTS OF SUBTITLE 25 APPROVED BY THE PLANNING DIRECTOR ON 12/1/2023: THE REMOVAL OF 35 SPECIMEN TREES (SECTION 25-122(b)(1)(G)), LABELED AS ST-9, ST-10, ST-11, ST-17, ST-19, ST-22, ST-23, ST-37, ST-52, ST-53, ST-58, ST-59, ST-61, ST-62, ST-65, ST-66, ST-76, ST-82, ST-83, ST-84, ST-87, ST-88, ST-89, ST-96, ST-97, ST-98, ST-99, ST-100, ST-103, ST-105, ST-113, ST-115, ST-116, ST-117, ST-118 ON THIS PLAN.

BLAZE ORANGE PLASTIC MESH

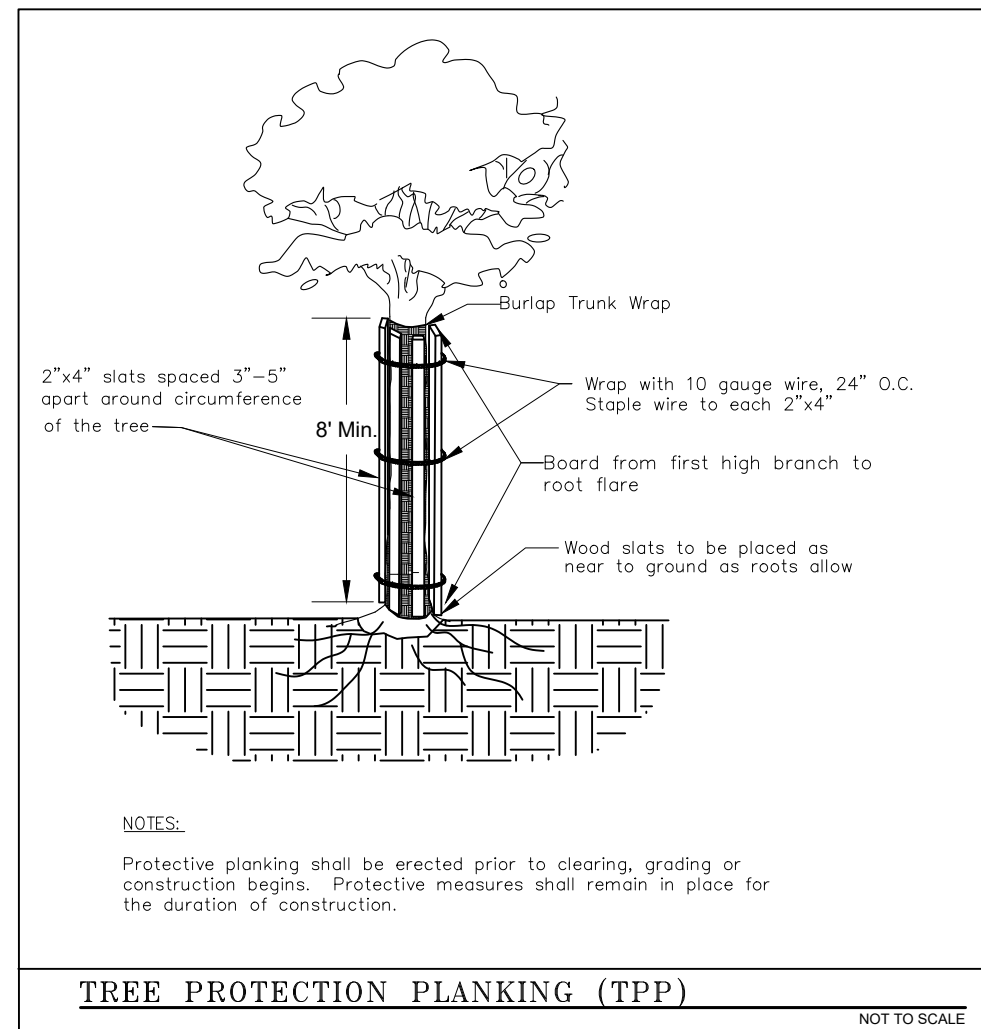


NOTES:

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 DEVICE.
4. ROOT DAMAGE SHOULD BE AVOIDED.
5. PROTECTIVE SIGNAGE MAY ALSO BE USED.
6. DEVICE SHOULD BE MAINTAINED THROUGHOUT CONSTRUCTION.

TREE PROTECTION FENCING

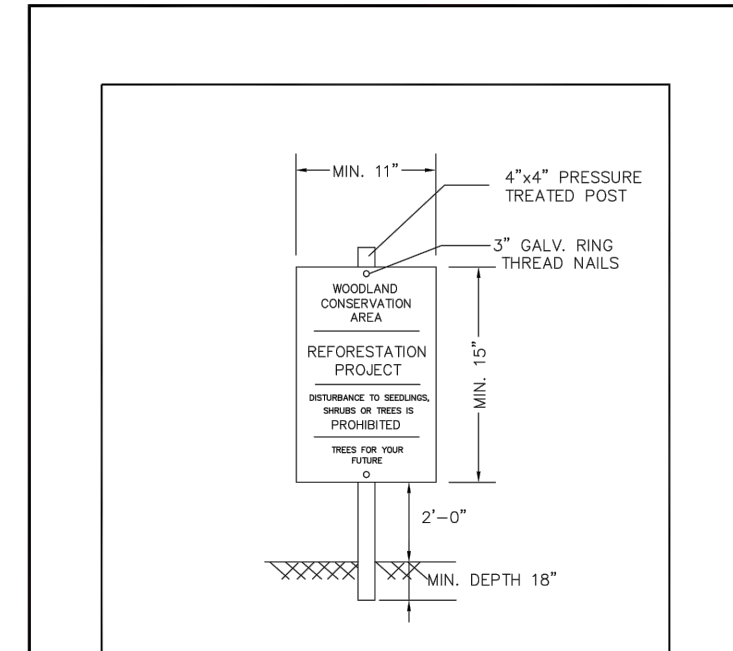
Not To Scale



TREE PROTECTION PLANKING (TPP)

NOT TO SCALE

TCP-18.Reforestation Area Sign



NOTES:

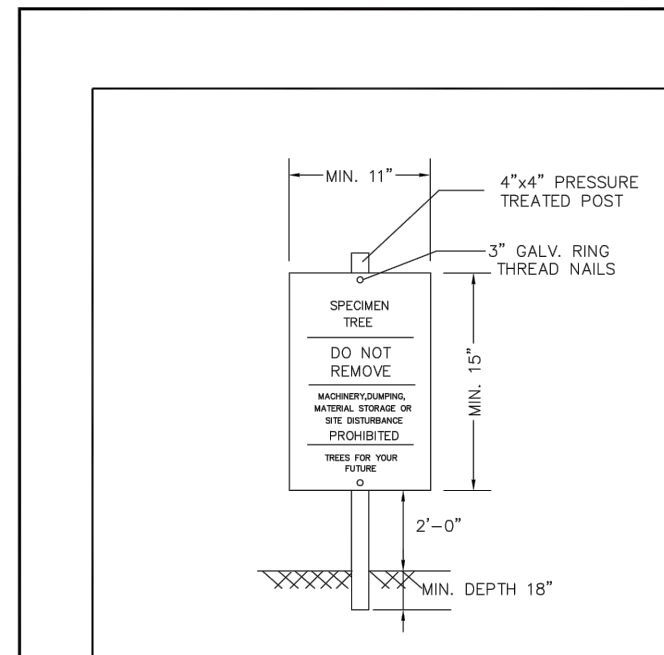
1. ATTACHMENT OF SIGNS TO TREES IS PROHIBITED.
2. SIGNS SHOULD BE PROPERLY MAINTAINED.
3. AVOID INJURY TO ROOTS WHEN PLACING POSTS FOR THE SIGNS.
4. SIGNS SHOULD BE POSTED TO BE VISIBLE TO ALL CONSTRUCTION PERSONNEL FROM ALL DIRECTIONS.
5. SIGNS SHOULD BE INSTALLED AT SAME TIME AS TREE PROTECTION DEVICE.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

REFORESTATION AREA SIGN

Prince George's County/Planning Department

Appendix A-45

TCP-19.Specimen Tree Sign



NOTES:

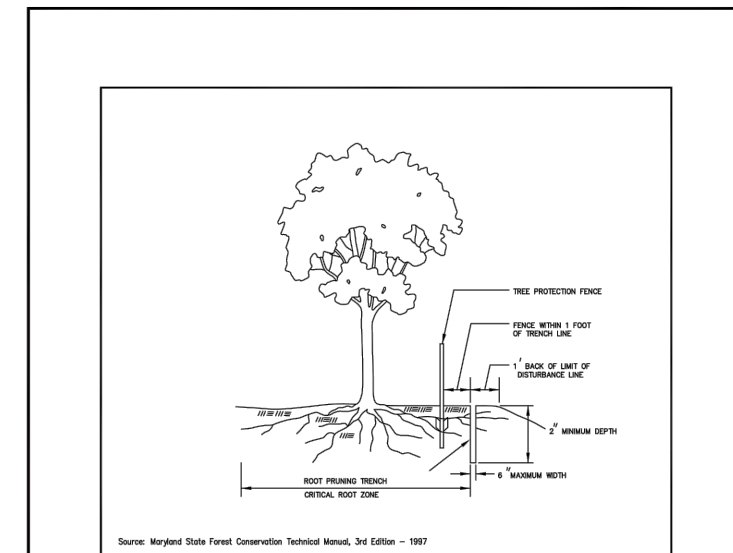
1. ATTACHMENT OF SIGNS TO TREES IS PROHIBITED.
2. SIGNS SHOULD BE PROPERLY MAINTAINED.
3. AVOID INJURY TO ROOTS WHEN PLACING POSTS FOR THE SIGNS.
4. SIGNS SHOULD BE POSTED TO BE VISIBLE TO ALL CONSTRUCTION PERSONNEL FROM ALL DIRECTIONS.
5. SIGNS SHOULD BE INSTALLED AT SAME TIME AS TREE PROTECTION DEVICE.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

SPECIMEN TREE SIGN

Appendix A-46

Environmental Technical Manual

TCP-20.Root Pruning Detail



NOTES:

1. RETENTION AREA TO BE CONSIDERED AS PART OF THE FOREST CONSERVATION PLAN REVIEW PROCESS.
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 5 FEET TO TREE ALONG FENCING.
7. SIGNS SHOULD BE IN PLACE IMMEDIATELY FOLLOWING STAKE OUT OF L.O.S. AND REMAIN IN PLACE IN PERPETUITY.

ROOT PRUNING

Prince George's County/Planning Department

Appendix A-47

PROPERTY OWNERS AWARENESS

CERTIFICATE: The Maryland-National Capital Park and Planning Commission

I/We 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.

Jennifer Bruneau

Owner or Owner's Representative

Dec 4, 2023

Date jennifer.bruneau@gparks.com

PROPERTY OWNERS AWARENESS

CERTIFICATE:

I/We 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.

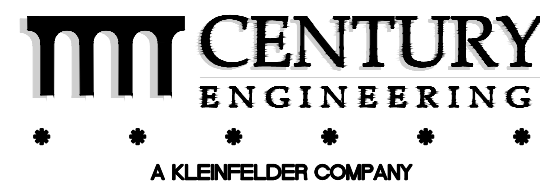
Jennifer Bruneau

Owner or Owner's Representative

Dec 4, 2023

Date 10/13/2023

DWG. 14 OF 14



10710 GILROY ROAD, HUNT VALLEY, MD 21031
PHONE: 443-589-2400

TYPE 2 TREE CONSERVATION (TCP2) PLAN
APPROVAL BLOCK

Prince George's County Planning Department, M-NCPPC Environmental Planning Section TYPE 2 TREE CONSERVATION PLAN APPROVAL TCP2-043-2022			
Approved by	Date	DRD #	Reason for Revision
00 <i>Mary Rea</i>	12/7/2023		N/A
01			
02			
03			
04			
05			

