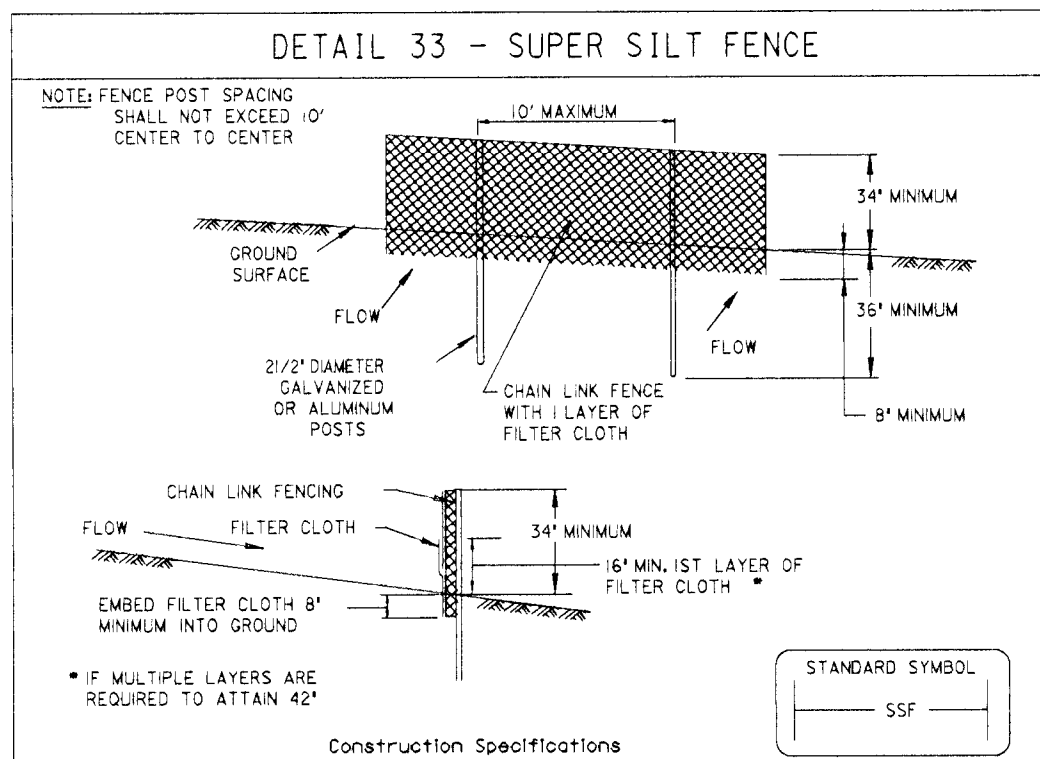


F.H.W.A. REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
-	MD			



- Construction Specifications**
- Fencing shall be 42" in height and constructed in accordance with the latest Maryland State Highway Design for Chain Link Fencing. The specification for a 6" fence shall be used, substituting 42" fabric and 6" length posts.
 - Chain link fence shall be fastened securely to the fence posts with wire ties. The lower tension wire, brace and truss rods, drive anchors and post caps are not required except on the ends of the fence.
 - Filter cloth shall be fastened securely to the chain link fence with ties spaced every 24" at the top and mid section.
 - Filter cloth shall be embedded a minimum of 8" into the ground.
 - When two sections of filter cloth adjoin each other, they shall be overlapped by 6" and folded.
 - Maintenance shall be performed as needed and silt buildup removed when "bunches" develop in the silt fence, or when silt reaches 50% of fence height.
 - Filter cloth shall be fastened securely to each fence post with wire ties or staples at top and mid section and shall meet the following requirements for Geotextile Class F:

Tensile Strength	50 lbs/in (min)	Test: MSMT 509
Tensile Modulus	20 lbs/in (min)	Test: MSMT 509
Flow Rate	0.3 gal/ft /minute (max)	Test: MSMT 322
Filtering Efficiency	75% (min)	Test: MSMT 322

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE	PAGE H - 26 - 3	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION
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NOTE: Super silt fence will be used as a temporary tree protection device for this project.

SUPER SILT FENCE

Design Criteria

Slope	Slope Steepness	Slope Length (maximum)	Silt Fence Length (maximum)
0 - 10%	0 - 10%	Unlimited	Unlimited
10 - 20%	10% - 5%	200 feet	1,500 feet
20 - 33%	5% - 3%	100 feet	1,000 feet
33 - 50%	3% - 2%	100 feet	500 feet
50% +	2% +	50 feet	250 feet

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE	PAGE H - 26 - 3A	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION
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Woodland Conservation Worksheet
for Governmental and Linear Projects in Prince George's County

SECTION 1 Establishing Site Information

Property Description or Name: Sunnyside Avenue Bridge Replacement
Project Location: TCP2-018-14
TCP2 Number: NHTS-05-12
4th Number: OS R.O.S.
5 Zone: 3.85 acres
6 Gross Tract: 1.82 acres
7 Project Area/Limits: 1.82 acres

SECTION 2 Determining Requirements

8 Existing Woodland in Project Limits - WCF: 1.82 or 49.36%
9 Woodland Cleared in Project Limits: 1.82
10 Total area of woodland cleared (subject to 1:1 replacement): 1.82
11 Off-site Woodland Conservation Provided (afforestation): 2.50
12 Off-site Woodland Conservation Provided (preservation): 2.50
13 Woodland Conservation Requirement: 1.82 acres

SECTION 3 Meeting the Requirements

14 Woodland Preserved: 2.50
15 Afforestation/Reforestation: 2.50
16 Natural Regeneration: 2.50
17 Landscape Credit: 2.50
18 Specimen/Endemic Tree Credit (CRZ area 2.0): 2.50
19 Forest Enhancement Credit (Area 2.5): 2.50
20 Street Tree Credit (Existing or 10-year canopy coverage): 2.50
21 Prior Credit for Off-site Woodland Conservation: 2.50
22 Current Credit for Off-site Woodland Conservation: 2.50
23 Off-site Woodland Conservation provided (afforestation): 1.82
24 Off-site Woodland Conservation provided (preservation): 2.50
25 Area Approved for Fee-in-lieu/IFA: 2.50 Fee amount: \$0.00
26 Area Approved for Fee-in-lieu/IFA: 2.50 Fee amount: \$0.00
27 Woodland Conservation Provided: 1.82 acres

Prepared by: [Signature] Date: 10/21/14

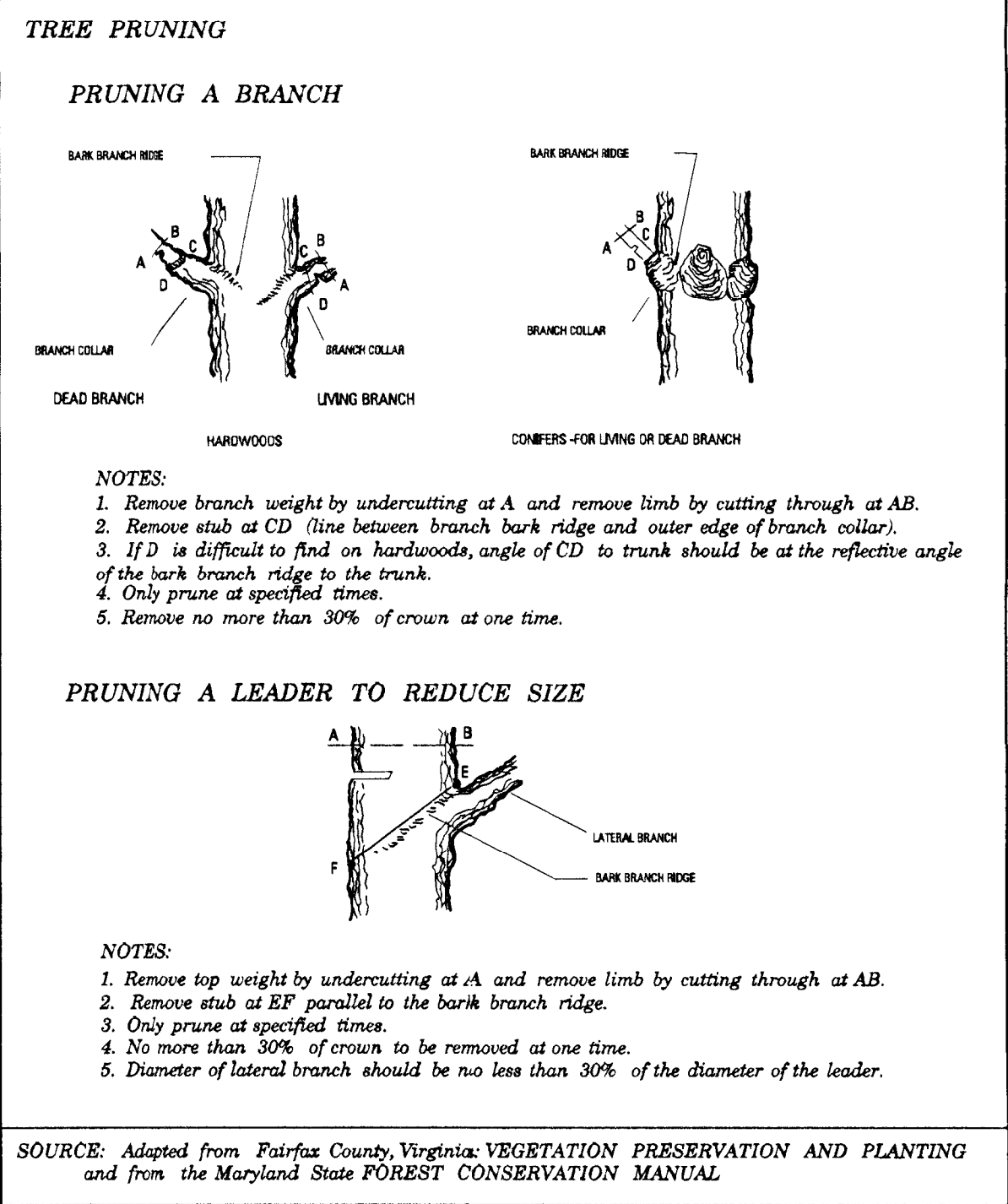
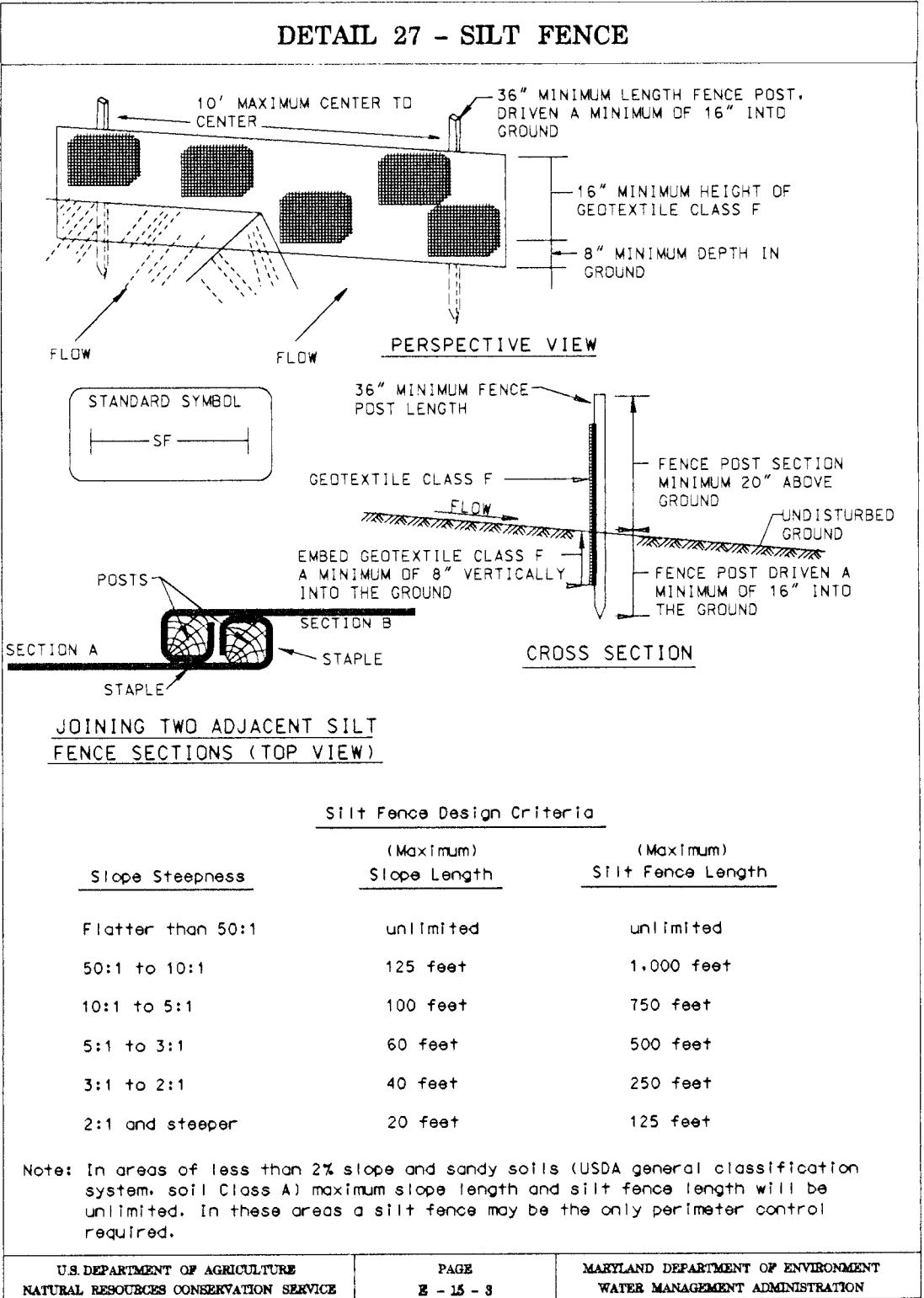
NOTE: Off-site Woodland Conservation credits provided from:
2-001-09 Brooke Lane Woodland Conservation Bank

NOTE: This plan is approved in accordance with the following variance(s) from the strict requirements of Subtitle 25 approved by the Planning Director on _____:

a. The removal of seven specimen trees (Section 25-122(b)(1)(G)): ST-1, ST-2, ST-3, ST-9, ST-16, ST-18, and ST-19.

NOTES:

- This plan is submitted to fulfill the woodland conservation requirements for ESC Permit CSC25-12.
- Cutting or clearing of woodland not in conformance with this plan or without the expressed written consent of the Planning Director or designee shall be subject to a \$9.00 per square foot mitigation fee.
- A pre-construction meeting is required prior to the issuance of grading permits. The Department of Permits, Inspection and Enforcement shall be contacted prior to the start of any work on the site to conduct a pre-construction meeting where implementation of woodland conservation measures shown on this plan will be discussed in detail.
- The Prince George's County DP&T shall notify future buyers of any woodland conservation areas through the provision of a copy of this plan at time of contract signing. Future property owners are also subject to this requirement.
- The owners of the property subject to this tree conservation plan are solely responsible for conformance of the requirements contained herein.
- The property is within the Developing Tier and Rural Tier as defined in the Prince George's County General Plan (2002) and is zoned R-D-5 and D-5.
- The property is adjacent to Edmonston Road which is a designated Historic roadway.
- The property is adjacent to Edmonston Road which is classified as an arterial roadway.
- This plan is not grandfathered under CB-27-2010, Section 25-114 (g).
- All woodlands designated on this plan for preservation are the responsibility of the property owner. The woodland areas 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.
- Tree and woodland conservation methods such as root pruning shall be conducted as noted on this plan.
- The location of all temporary tree protection fencing (TPFs) shown on this plan shall be flagged and staked in the field prior to the pre-construction meeting. Upon approval of the locations by the county inspector, installation of the TPFs may begin.
- 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 TCP2.
- Work on this project will be initiated in several phases. All temporary TPFs required for a given phase shall be installed prior to any disturbance within that phase of work.
- All required fee-in-lieu payments shall be made to the Woodland Conservation Fund. Proof of deposit shall be provided prior to the issuance of any permits related to this TCP2 unless the project is phased. Phased projects shall pay the fee-in-lieu amount for each phase prior to the issuance of any permit for that phase and shown in the fee-in-lieu breakdown on this TCP2.



SUMMARY SPECIMEN TREE TABLE:

Tree ID	DBH	Common Name	Latin Name	Condition	Disposition
ST-1	30.5"	Red maple	Acer rubrum	Good	Removed
ST-2	30"	Tulip poplar	Liriodendron tulipifera	Fair	Removed
ST-3	43"	Tulip poplar	Liriodendron tulipifera	Good	Removed
ST-4	30"	Red Maple	Acer rubrum	Good	Saved, 5% CRZ Impact
ST-5	31"	Tulip poplar	Liriodendron tulipifera	Good	No Impact
ST-6	34"	Tulip poplar	Liriodendron tulipifera	Good	No Impact
ST-7	42"	Tulip poplar	Liriodendron tulipifera	Good	No Impact
ST-8	30"	Tulip poplar	Liriodendron tulipifera	Good	No Impact
ST-9	30"	Tulip poplar	Liriodendron tulipifera	Good	Removed
ST-10	32"	Tulip poplar	Liriodendron tulipifera	Good	Saved, 3% CRZ Impact
ST-11	36"	Willow oak	Quercus phellos	Fair	Saved
ST-12	31"	Tulip poplar	Liriodendron tulipifera	Good	No Impact
ST-13	34"	Tulip poplar	Liriodendron tulipifera	Good	No Impact
ST-14	31"	Tulip poplar	Liriodendron tulipifera	Fair	No Impact
ST-15	31"	Tulip poplar	Liriodendron tulipifera	Good	No Impact
ST-16	31"	Tulip poplar	Liriodendron tulipifera	Good	Removed
ST-17	30"	Sweetgum	Liquidambar styraciflua	Good	No Impact
ST-18	34"	Willow oak	Quercus phellos	Good	Removed
ST-19	35"	Willow oak	Quercus phellos	Good	Removed

SUMMARY OF WOODLAND IMPACTS

AREA OF WOODLAND CLEARING OUTSIDE 100-YR FLOODPLAIN	10,785 S.F.
AREA OF WOODLAND CLEARING W/IN 100-YR FLOODPLAIN	72,780 S.F.
TOTAL AREA OF WOODLAND CLEARING	83,565 S.F.

M-NCPPC
Prince George's County Planning Department
Environmental Planning Section
APPROVAL
TREE CONSERVATION PLAN
TCP2-018-14

Approved by: [Signature] Date: 11/26/14

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DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
PRINCE GEORGE'S COUNTY, MARYLAND
REPLACEMENT OF BRIDGE NO. P0189
SUNNYSIDE AVENUE OVER INDIAN CREEK
TCP2 - DETAILS

SCALE: **N.T.S.** DWG. 4 OF 4

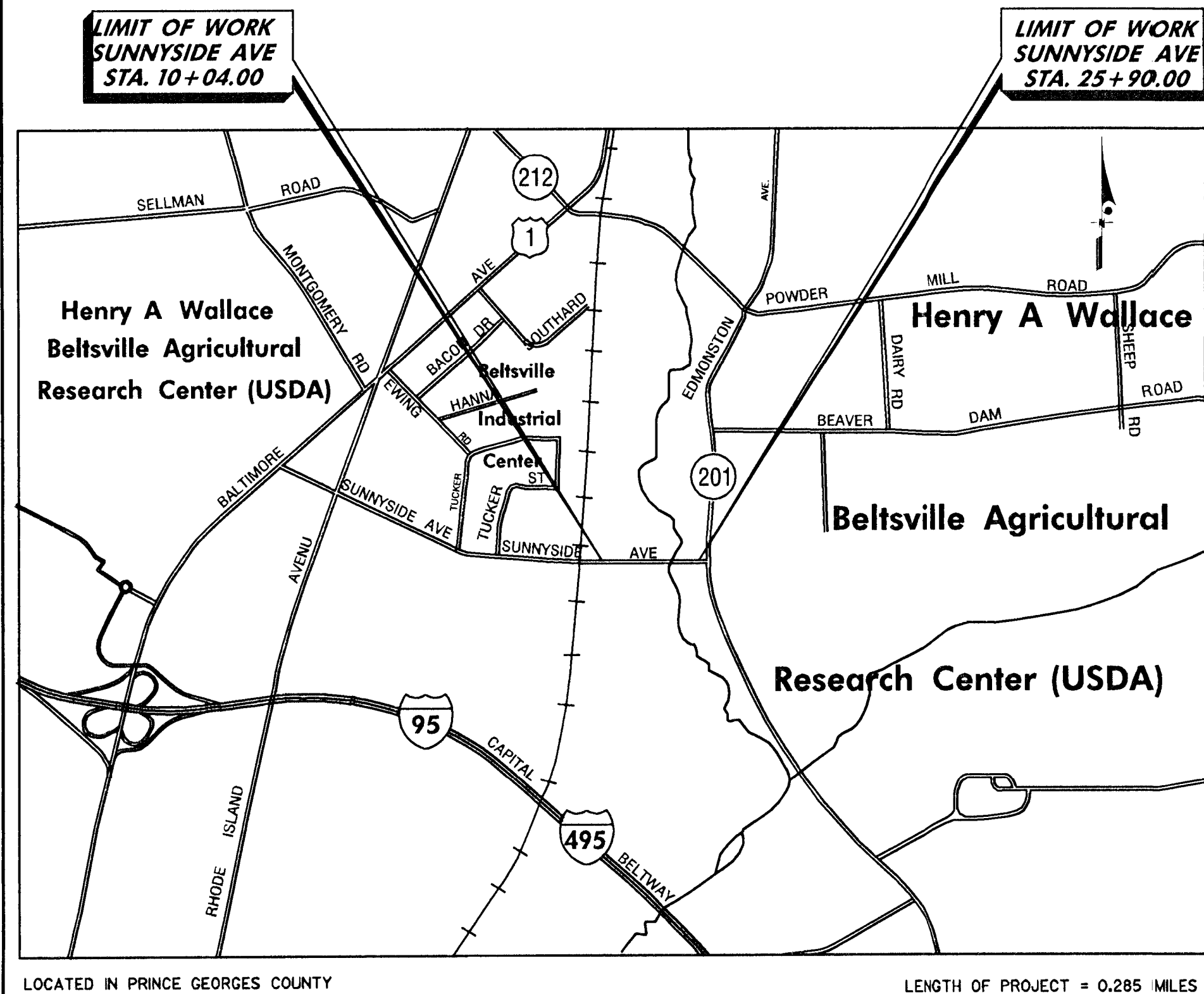
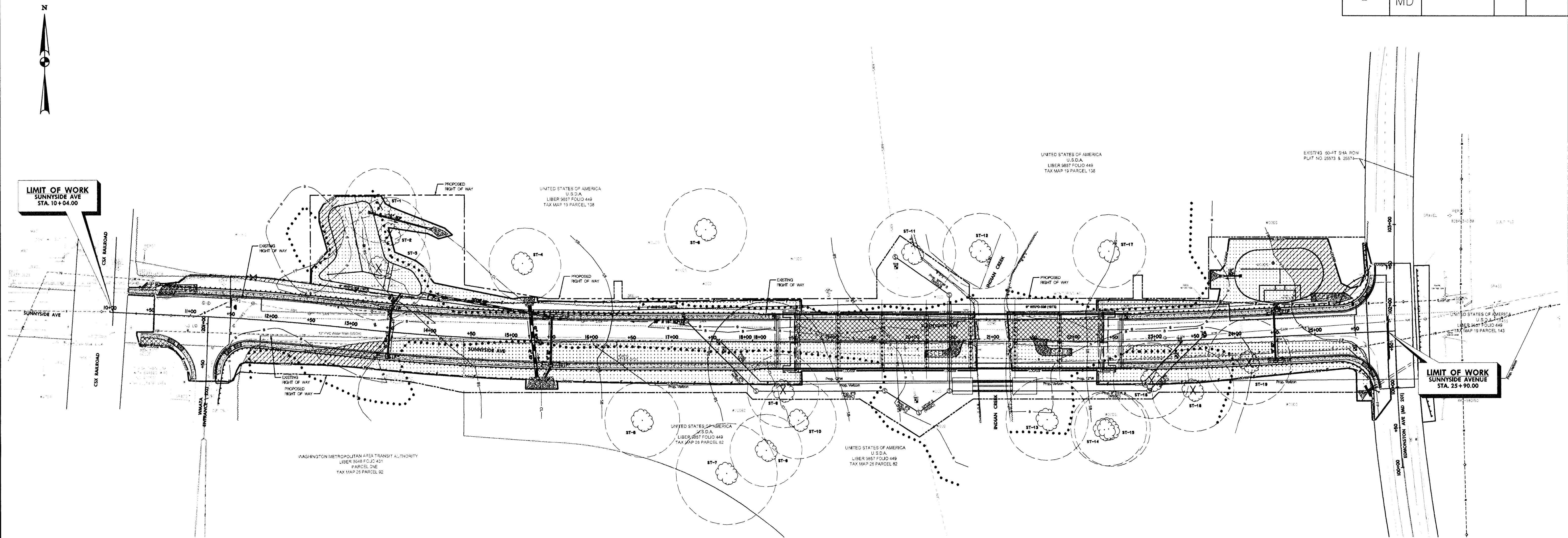
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DRAWN:	P.G. CO. XXX-XXX
CHECKED:	PROJECT NO.
APPROVED:	P.G. CO. XXXXXX
CHEF, PROJECTS & PROGRAMS DIVISION	FILE NO.
	-

PLAN PREPARED BY HARRY CANFIELD, DNR QUALIFIED PROFESSIONAL

[Signature] 10/21/14

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(301) 982-2800
www.stantec.com

F.H.W.A. REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
-	MD			



- LEGEND
- WETLAND BUFFER
 - WETLAND BOUNDARY
 - PROPOSED DRAINAGE AREA
 - LIMITS OF FILL
 - 100' BUFFER
 - LIMIT OF DISTURBANCE (SUPER SALT FENCE)
 - LIMIT OF DISTURBANCE
 - STABILIZED CONSTRUCTION ENTRANCE
 - CLEARING IN FLOODPLAIN
 - CLEARING OUTSIDE FLOODPLAIN
 - EXISTING WOODLANDS
 - SPECIMEN TREE
 - CRITICAL ROOT ZONE
 - SPECIMEN TREE TO BE REMOVED
 - CENTERLINE STREAM
 - STREAM TOP OF BANK
 - STREAM BUFFER
 - 100-YEAR FLOODPLAIN

OWNER'S/DEVELOPER'S/APPLICANT INFORMATION

NAME: PRINCE GEORGE'S COUNTY GOVERNMENT
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION

ADDRESS: INGLEWOOD CENTER 3
9400 PEPPER CORN PLACE, SUITE 310
LARGO, MD 20774

REPRESENTATIVE: ERV T. BECKERT
CHIEF, HIGHWAYS AND BRIDGES

PHONE: (301) 883-5642

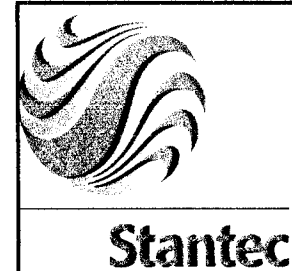
APPROVED

ERV T. Beckert
10/23/14

FOR DIRECTOR DEPARTMENT OF PUBLIC WORKS
AND TRANSPORTATION
PRINCE GEORGE'S COUNTY, MARYLAND

60' 0 60' 120'
SCALE: 1"=60'

PLAN PREPARED BY HARRY CANFIELD, DNR QUALIFIED PROFESSIONAL



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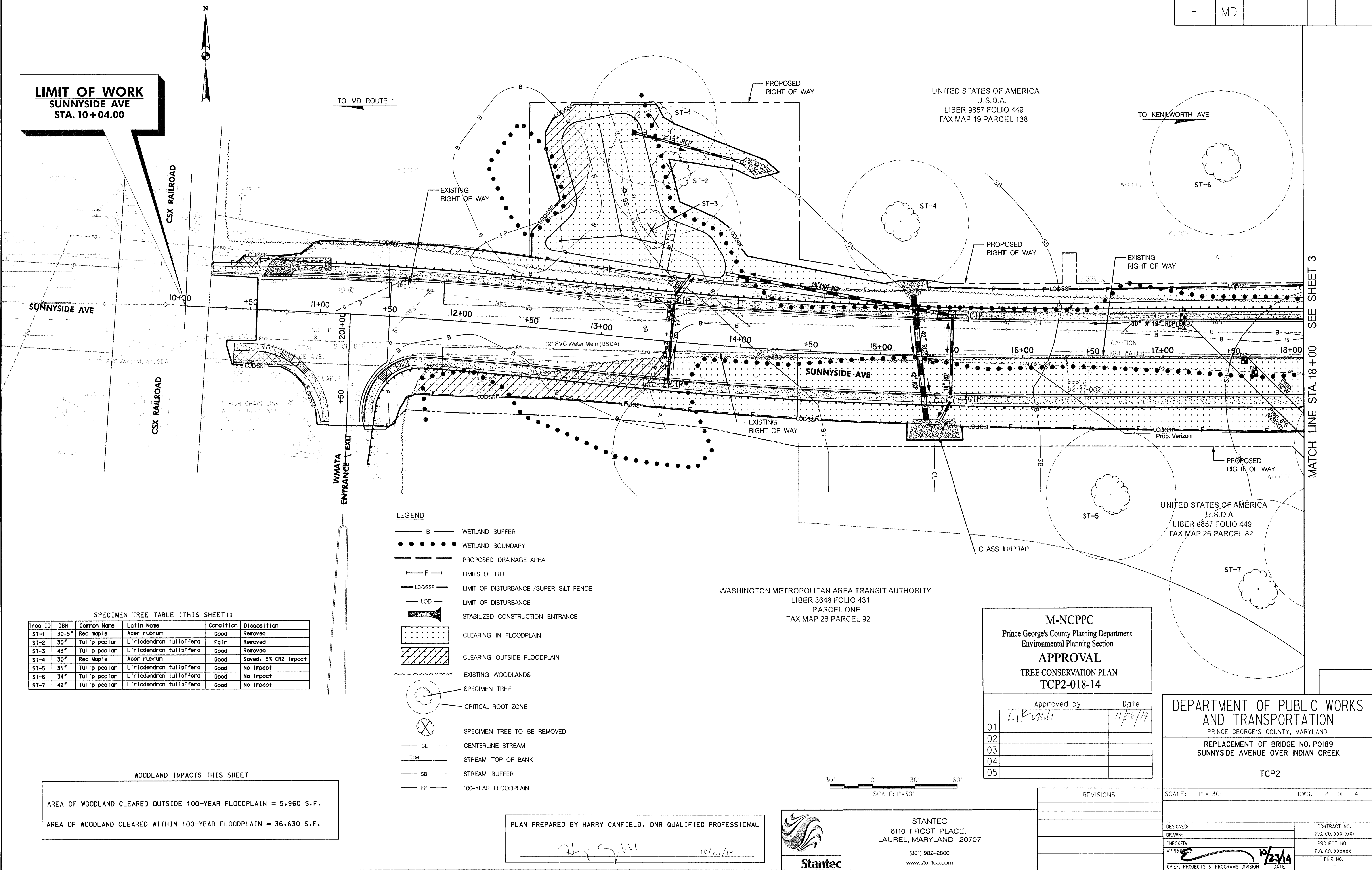
M-NCPPC Prince George's County Planning Department Environmental Planning Section APPROVAL TREE CONSERVATION PLAN TCP2-018-14	
Approved by	Date
<i>ERV T. Beckert</i>	11/06/14
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DEPARTMENT OF PUBLIC WORKS
AND TRANSPORTATION
PRINCE GEORGE'S COUNTY, MARYLAND
REPLACEMENT OF BRIDGE NO. P0189
SUNNYSIDE AVENUE OVER INDIAN CREEK
TCP2

SCALE: 1" = 60' DWG. 1 OF 4

DESIGNED:	CONTRACT NO.
DRAWN:	P.G. CO. XXX-XXX
CHECKED:	PROJECT NO.
APPROVED:	P.G. CO. XXXXXX
CHIEF, PROJECTS & PROGRAMS DIVISION	FILE NO.

F.H.W.A. REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
-	MD			



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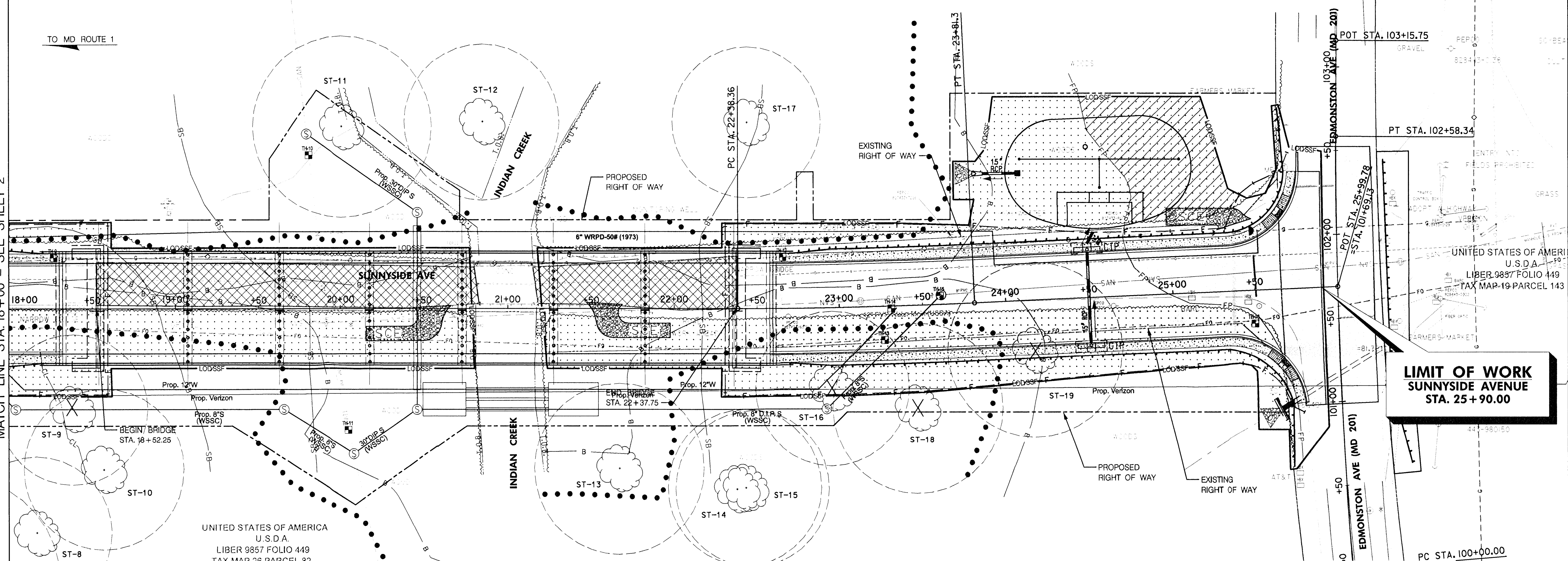
F.H.W.A. REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
-	MD			



TO MD ROUTE 1

UNITED STATES OF AMERICA
U.S.D.A.
LIBER 9857 FOLIO 449
TAX MAP 19 PARCEL 138

MATCH LINE STA 18+00 - SEE SHEET 2



LIMIT OF WORK
SUNNYSIDE AVENUE
STA. 25 + 90.00

SPECIMEN TREE TABLE (THIS SHEET):

Tree ID	DBH	Common Name	Latin Name	Condition	Disposition
ST-8	30"	Tulip poplar	Liriodendron tulipifera	Good	No Impact
ST-9	30"	Tulip poplar	Liriodendron tulipifera	Good	Removed
ST-10	32"	Tulip poplar	Liriodendron tulipifera	Good	Saved, 3% CRZ Impact
ST-11	36"	Willow oak	Quercus phellos	Fair	Saved
ST-12	31"	Tulip poplar	Liriodendron tulipifera	Good	No Impact
ST-13	34"	Tulip poplar	Liriodendron tulipifera	Good	No Impact
ST-14	31"	Tulip poplar	Liriodendron tulipifera	Fair	No Impact
ST-15	31"	Tulip poplar	Liriodendron tulipifera	Good	No Impact
ST-16	31"	Tulip poplar	Liriodendron tulipifera	Good	Removed
ST-17	30"	Sweetgum	Liquidambar styraciflua	Good	No Impact
ST-18	34"	Willow oak	Quercus phellos	Good	Removed
ST-19	35"	Willow oak	Quercus phellos	Good	Removed

ST-11* - Sewer line will be directionally drilled to avoid impacts.

WOODLAND IMPACTS THIS SHEET

AREA OF WOODLAND CLEARED OUTSIDE 100-YEAR FLOODPLAIN = 4,825 S.F.
AREA OF WOODLAND CLEARED WITHIN 100-YEAR FLOODPLAIN = 36,150 S.F.

PLAN PREPARED BY HARRY CANFIELD, DNR QUALIFIED PROFESSIONAL

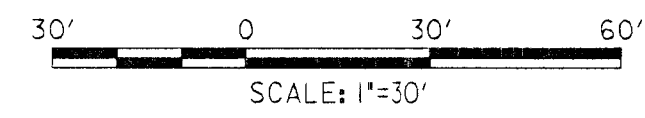
[Signature] 10/21/14

- LEGEND**
- B — WETLAND BUFFER
 - WETLAND BOUNDARY
 - F — LIMITS OF FILL
 - LODSSF — LIMIT OF DISTURBANCE /SUPER SILT FENCE
 - LOD — LIMIT OF DISTURBANCE
 - ST — STABILIZED CONSTRUCTION ENTRANCE
 - [Pattern] CLEARING IN FLOODPLAIN
 - [Pattern] CLEARING OUTSIDE FLOODPLAIN
 - [Pattern] EXISTING WOODLANDS
 - [Symbol] SPECIMEN TREE
 - [Symbol] CRITICAL ROOT ZONE
 - [Symbol] SPECIMEN TREE TO BE REMOVED
 - CL — CENTERLINE STREAM
 - TOB — STREAM TOP OF BANK
 - SB — STREAM BUFFER
 - FP — 100-YEAR FLOODPLAIN

M-NCPPC
Prince George's County Planning Department
Environmental Planning Section

APPROVAL
TREE CONSERVATION PLAN
TCP2-018-14

Approved by	Date
<i>[Signature]</i>	11/09/14
01	
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03	
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**DEPARTMENT OF PUBLIC WORKS
AND TRANSPORTATION**
PRINCE GEORGE'S COUNTY, MARYLAND
REPLACEMENT OF BRIDGE NO. P0189
SUNNYSIDE AVENUE OVER INDIAN CREEK
TCP2

SCALE: 1" = 30' DWG. 3 OF 4

DESIGNED:	CONTRACT NO.
DRAWN:	P.G. CO. XXX-XXX
CHECKED:	PROJECT NO.
APPROVED:	P.G. CO. XXXXXX
CHEF, PROJECTS & PROGRAMS DIVISION	FILE NO.
DATE 10/23/14	

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