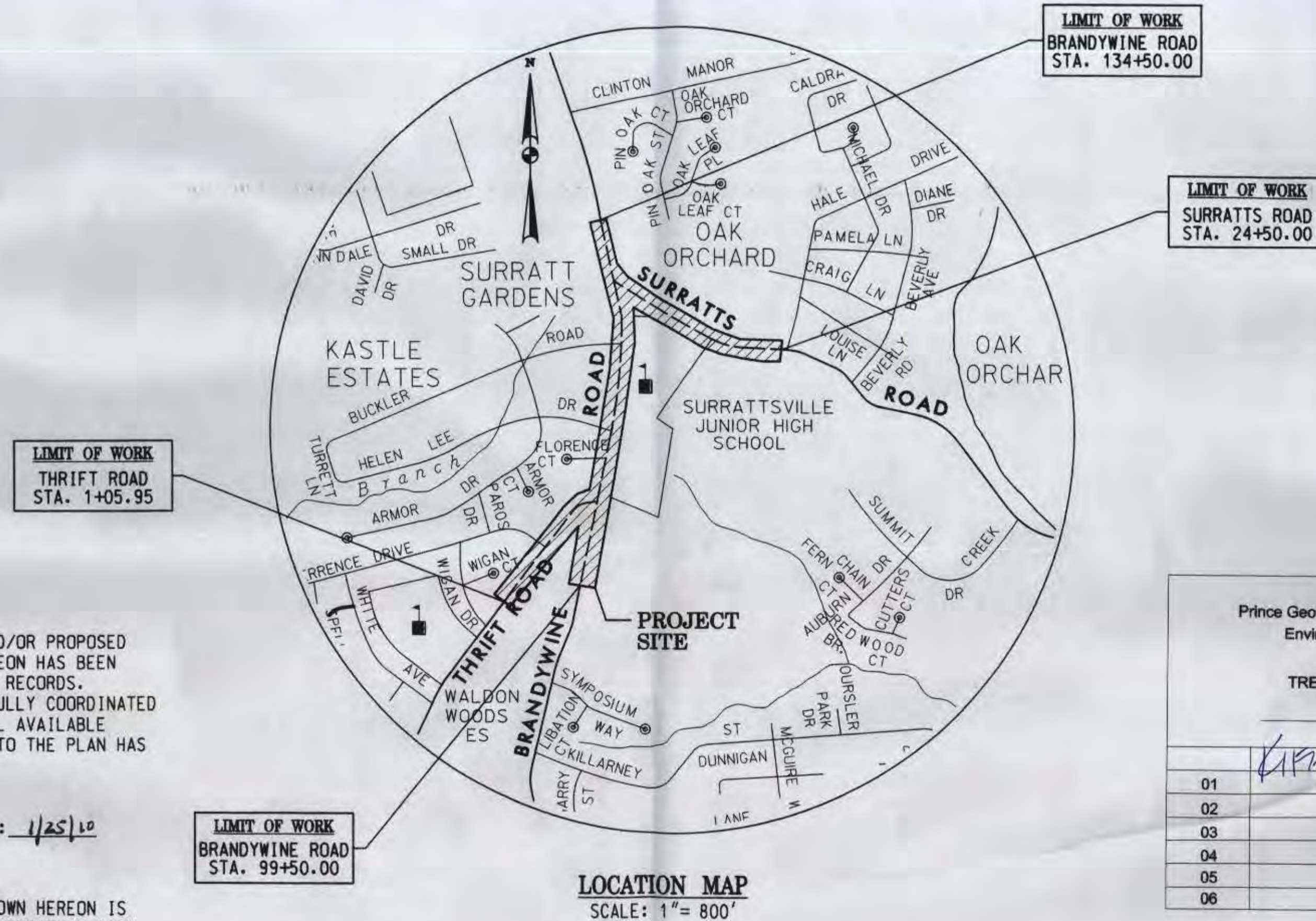


INDEX OF SHEETS		
SHEET NO.	SHEET TOTALS	DESCRIPTION
1	1	TITLE SHEET
2	1	GENERAL NOTES & LEGENDS
3-6C	4	TYPICAL SECTIONS AND PAVING DETAILS, STANDARD DETAILS
7-9	3	GEOMETRIC LAYOUT
10-12	3	CURB GEOMETRY
13-15	3	INTERSECTION DETAIL
16-22	7	SURVEY OF EXISTING CONDITION
23-29	7	ROADWAY PLAN
30-35	6	ROADWAY PROFILES
36-42	7	STORM DRAIN PROFILES
43	1	STRUCTURE AND PIPE SCHEDULE
44-45	2	DRY SWALE PLAN, SECTION, PROFILE & CROSS SECTIONS
46-49	4	BOX CULVERT PLANS
50-51	2	STANDARD DETAILS
52-75	24	EROSION AND SEDIMENT CONTROL PLAN
76-83	8	GRADING PLAN
84-105	22	MAINTENANCE OF TRAFFIC PLAN
106-116	10	TRAFFIC SIGNAL PLAN
117-123	7	LIGHTING PLAN
124-127	4	SIGNING AND PAVEMENT MARKING PLAN
128-134	7	LANDSCAPE PLAN
135-141	7	TREE CONSERVATION PLAN
142-147	6	SOIL BORING PLAN
148-159	12	WATER RELOCATION PLANS
1-6	6	DRIVEWAY PROFILES
7-30	24	ROADWAY CROSS SECTIONS
TOTAL		189

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

**BRANDYWINE ROAD AT SURRETT'S ROAD
INTERSECTION IMPROVEMENT
GRADING, SOIL EROSION AND SEDIMENT CONTROL PLANS**

CONTRACT NO.: PROJECT NO.: 669001



M-NCPPC Prince George's County Planning Department Environmental Planning Section	
APPROVAL TREE CONSERVATION PLAN	
TCP II 4/10	DATE
APPROVED BY	
01	1/20/10
02	
03	
04	
05	
06	

OWNER'S / DEVELOPER'S / APPLICANT INFORMATION

NAME: PRINCE GEORGE'S COUNTY GOVERNMENT
ADDRESS: DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
INGLEWOOD CENTER 3,
9400 PEPPERCORN PLACE, SUITE 310
LARGO, MD 20774
REPRESENTATIVE: JAMES D. WILSON, P.E.
CHIEF, HIGHWAYS & BRIDGES
PHONE: (301) 883-5642

DRAINAGE CERTIFICATION

"I CERTIFY THAT THE EXISTING AND/OR PROPOSED DRAINAGE ONTO THE PROPOSED IMPROVEMENTS AND FROM THIS SITE TO OTHER DRAINAGE PROPERTIES HAS BEEN ADDRESSED IN ACCORDANCE WITH APPLICABLE CODES."

SIGNATURE: *[Signature]* DATE: 1/25/10

DESIGN TRAFFIC DATA - BRANDYWINE ROAD

CONTROL YEARS	XXXX	XXXX
AVERAGE DAILY TRAFFIC - ADT	XX,XXX	XX,XXX
DIRECTIONAL DISTRIBUTION	XXXX	XXXX
PERCENT TRUCKS - ADT	XX	XX
DESIGN SPEED	40 MPH	
FUNCTIONAL CLASSIFICATION	URBAN COLLECTOR	
CONTROL OF ACCESS	PARTIAL	
INTENSITY OF DEVELOPMENT	URBAN	
TERRAIN	LEVEL	
ANTICIPATED POSTED SPEED	35 MPH	

DESIGN TRAFFIC DATA - SURRETT'S ROAD

CONTROL YEARS	XXXX	XXXX
AVERAGE DAILY TRAFFIC - ADT	XX,XXX	XX,XXX
DIRECTIONAL DISTRIBUTION	XXXX	XXXX
PERCENT TRUCKS - ADT	XX	XX
DESIGN SPEED	35 MPH	
FUNCTIONAL CLASSIFICATION	URBAN COLLECTOR	
CONTROL OF ACCESS	PARTIAL	
INTENSITY OF DEVELOPMENT	URBAN	
TERRAIN	LEVEL	
ANTICIPATED POSTED SPEED	30 MPH	

UTILITY CERTIFICATION

"I HEREBY CERTIFY THAT THE EXISTING AND/OR PROPOSED UNDERGROUND UTILITY INFORMATION SHOWN HEREON HAS BEEN CORRECTLY Duplicated FROM THE UTILITY COMPANY RECORDS. FURTHER, THAT THE INFORMATION HAS BEEN CAREFULLY COORDINATED WITH EACH INVOLVED UTILITY COMPANY AND ALL AVAILABLE UNDERGROUND UTILITY INFORMATION RELATIVE TO THE PLAN HAS BEEN SOLICITED."

SIGNATURE: *[Signature]* DATE: 1/25/10

SURVEYOR'S CERTIFICATION

"I HEREBY CERTIFY THAT THE INFORMATION SHOWN HEREON IS TRUE TO THE BEST OF MY KNOWLEDGE, AND WAS OBTAINED FROM AVAILABLE RECORDS."

SIGNATURE: _____ DATE: _____

PROJECT DESCRIPTION

THIS PROJECT WILL CONSIST OF WIDENING OF BRANDYWINE ROAD AND SURRETT'S ROAD FROM TWO LANE TO FOUR LANE. THE PROPOSED IMPROVEMENT WILL UPGRADE THE BRANDYWINE AND SURRETT'S ROAD, AND INTERSECTIONS OF BRANDYWINE/THRIFT ROAD AND BRANDYWINE/SURRETT'S ROAD.

PROJECT LENGTH

BRANDYWINE ROAD = 0.66 MILES
SURRETT'S ROAD = 0.27 MILES
THRIFT ROAD = 0.17 MILES
TOTAL = 1.10 MILES

**STANDARD SPECIFICATIONS BOOK
BOOK OF STANDARDS AND MUTCD**

ALL WORK ON THIS PROJECT SHALL CONFORM TO: THE MARYLAND DEPARTMENT OF TRANSPORTATION, STATE HIGHWAY ADMINISTRATION SPECIFICATIONS ENTITLED STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS DATED JULY 2008 REVISIONS THEREOF OR ADDITIONS THERETO, UNLESS OTHERWISE SPECIFIED; THE SPECIAL PROVISIONS INCLUDED IN THE INVITATION FOR BIDS BOOK; THE ADMINISTRATIONS BOOK OF SPECIFICATIONS AND STANDARDS FOR ROADWAYS AND BRIDGES, AND THE LATEST EDITION OF MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

THE GRADING LIMITS SHOWN ON THE PLAN ARE NOT TO BE EXCEEDED, ANY CHANGES IN THE GRADING, EROSION AND SEDIMENT CONTROL PLAN, STORM WATER MANAGEMENT FACILITY OR OTHER SEGMENT OF THE WORK MUST BE REVIEWED AND APPROVED BY THE ENGINEER.

OWNER'S / DEVELOPER'S CERTIFICATE

"I/WE HEREBY CERTIFY THAT I HAVE REVIEWED THESE EROSION AND SEDIMENT CONTROL PLANS AND THAT ALL CLEARING, GRADING, CONSTRUCTION AND/OR DEVELOPMENT WILL BE DONE PURSUANT TO THESE PLANS AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A MD DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT."

SIGNATURE: *[Signature]* DATE: 1/24/10
NAME: JAMES WILSON TITLE: CHIEF, HIGHWAYS & BRIDGES PHONE: 301-883-5639
FIRM: PRINCE GEORGE'S COUNTY GOVERNMENT ADDRESS: INGLEDWOOD III OFFICE BUILDING
9400 PEPPERCORN PLACE, 3rd FLOOR
LARGO, MD 20774
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION

APPLICANT'S / CONSULTANT'S CERTIFICATION

"I CERTIFY THAT THESE PLANS OF EROSION AND SEDIMENT CONTROL REPRESENT PRACTICABLE AND WORKABLE PLANS BASED ON MY PERSONAL KNOWLEDGE OF THE SITE AND THESE PLANS WERE PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF PRINCE GEORGE'S COUNTY SOIL CONSERVATION DISTRICT AND STANDARD SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL. I HAVE REVIEWED THESE EROSION AND SEDIMENT CONTROL PLANS AS DEVELOPER."

SIGNATURE: *[Signature]* DATE: 1/25/10
NAME: MR. TIRLOK SINGH MD. LICENSE NO.: 12565



DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION (DPW&T)
ENGINEERING AND INSPECTION SERVICES DIVISION
PRINCE GEORGE'S COUNTY, MARYLAND

APPROVAL DATE: *[Signature]* 3/01/10
BY: PETER DOAN, P.E. - DISTRICT ENGINEER

PERMIT NUMBER: 44810-2007-00
CONTRACT #



PRINCE GEORGE'S SOIL CONSERVATION DISTRICT
APPROVAL
SEDIMENT CONTROL, GRADING, SOILS AND DRAINAGE

SC# 40-10 EXPIRATION DATE 3/4/12

POND # X

[Signature] 3/4/10
DISTRICT SIGNATURE APPROVAL DATE

**DEPARTMENT OF PUBLIC WORKS
AND TRANSPORTATION**
PRINCE GEORGE'S COUNTY, MARYLAND
**BRANDYWINE ROAD AT SURRETT'S ROAD
INTERSECTION IMPROVEMENT**
TITLE SHEET

SCALE: AS SHOWN DWG. 1 OF 189

APPROVED *[Signature]* 1/25/2010
FOR HATHAM HAJAJ, DIRECTOR DATE

DESIGNED: _____ CONTRACT NO. _____
DRAWN: _____ ROAD NO. _____ JOB NO. _____
CHECKED: DS _____ FILE NO. _____
APPROVED: *[Signature]* 1/24/10
CHIEF, HIGHWAYS AND BRIDGES DATE

INSPECTION BY
DER DPW&T MOE

STORM DRAIN SYSTEM
S.D. PIPES
S.D. FLOOD CONTROL
WATER QUALITY SYSTEM
INFILTRATION
RETENTION POND
DETENTION POND
BIORETENTION AREA
OIL GRIT SEP.
EXT. DET. POND
UNDERGROUND STORAGE

OTHERS

MO, MATE, CAP, PK, & PL, CONDUIT
PRINCE GEORGE'S COUNTY
19 JAN 19 2010
COUNTY ENGINEERING DIVISION
#BRANDYWINE GRADING DESIGN

SITE CONCEPT# 44810-2007-00
PROJECT NAME: SURRETT'S ROAD/BRANDYWINE
ROAD IMPROVEMENTS

PRINCE GEORGE'S COUNTY, MD
DEPARTMENT OF PUBLIC WORKS AND
TRANSPORTATION, OFFICE OF ENGINEERING
APPROVED for Stormwater Management
and Storm Drain Only

DATE 3/01/10

Public storm drain/SWM system permits required prior to construction

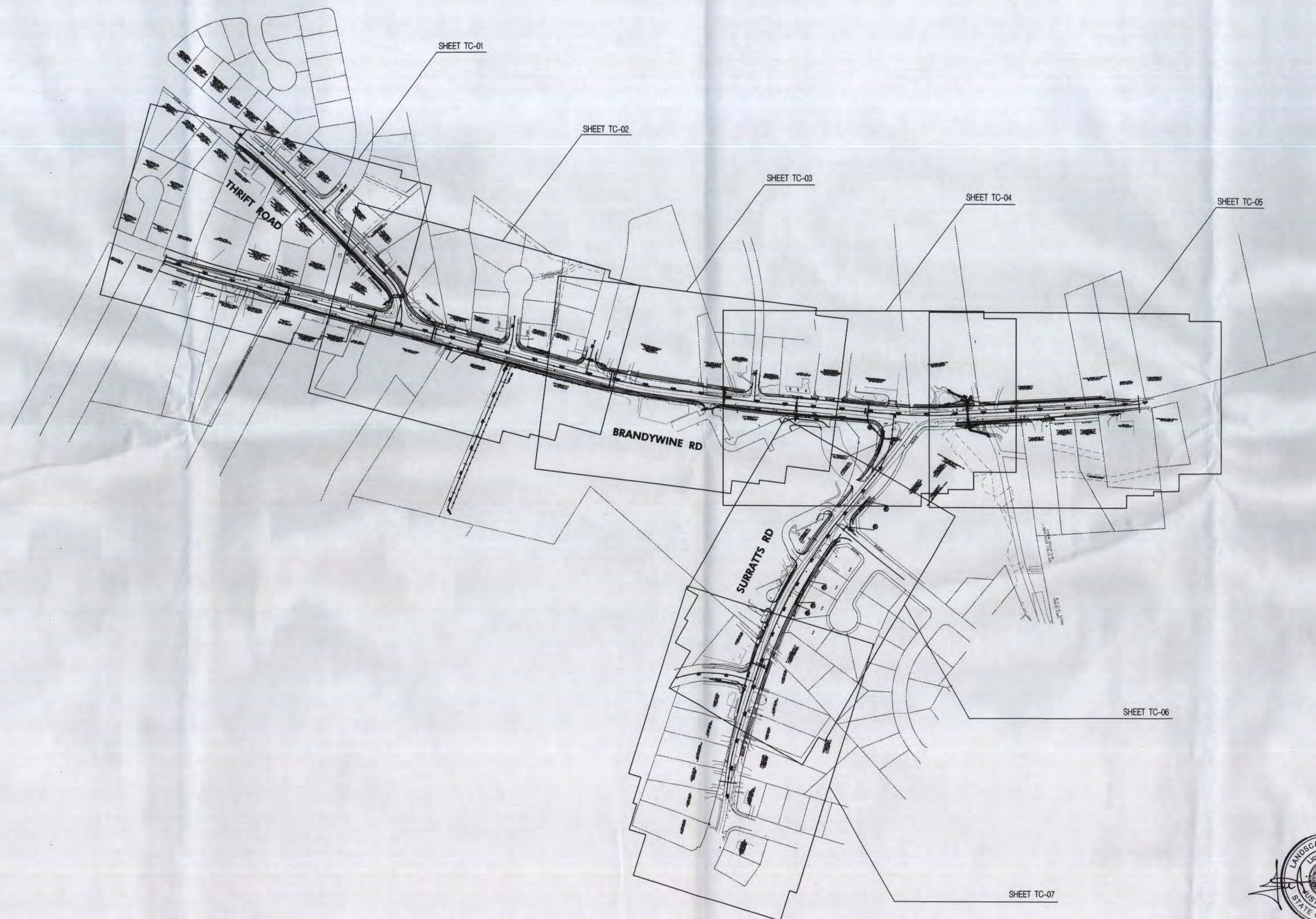
Private storm drain/SWM system. A recorded maintenance agreement is required.

Preconstruction meeting is required for all DER DPW&T inspected storm drain / SWM systems. Call (301) 952-4914 to arrange.

APPROVAL REVISION

DATE

DESCRIPTION:



M-NCPPC Prince George's County Planning Department Environmental Planning Section APPROVAL TREE CONSERVATION PLAN TCP II / / APPROVED BY DATE		
01	K. Finch	4/20/10
02		
03		
04		
05		
06		

COMPOSITE PLAN

TC-01A

DEPARTMENT OF PUBLIC WORKS
AND TRANSPORTATION

PRINCE GEORGE'S COUNTY, MARYLAND
BRANDYWINE ROAD AT SURREATTS ROAD
INTERSECTION IMPROVEMENT
TREE CONSERVATION PLAN

REVISIONS		SCALE: AS SHOWN		DWG.134A OF 189	
		APPROVED			
		FOR HATHAM HIJAZI, DIRECTOR			DATE
		DESIGNED:		CONTRACT NO.	
		DRAWING:			
		CHECKED: DS		ROAD NO.	JOB NO.
159	APPROVED:		FILE NO.		
	CHIEF, HIGHWAYS AND BRIDGES		DATE		

:*5274-220(Surratts)*PLNSHT*0FC-P001_key_surratts.dgn



LIMIT OF WORK
THRIFT ROAD
STA. 1+05.95

LEGEND



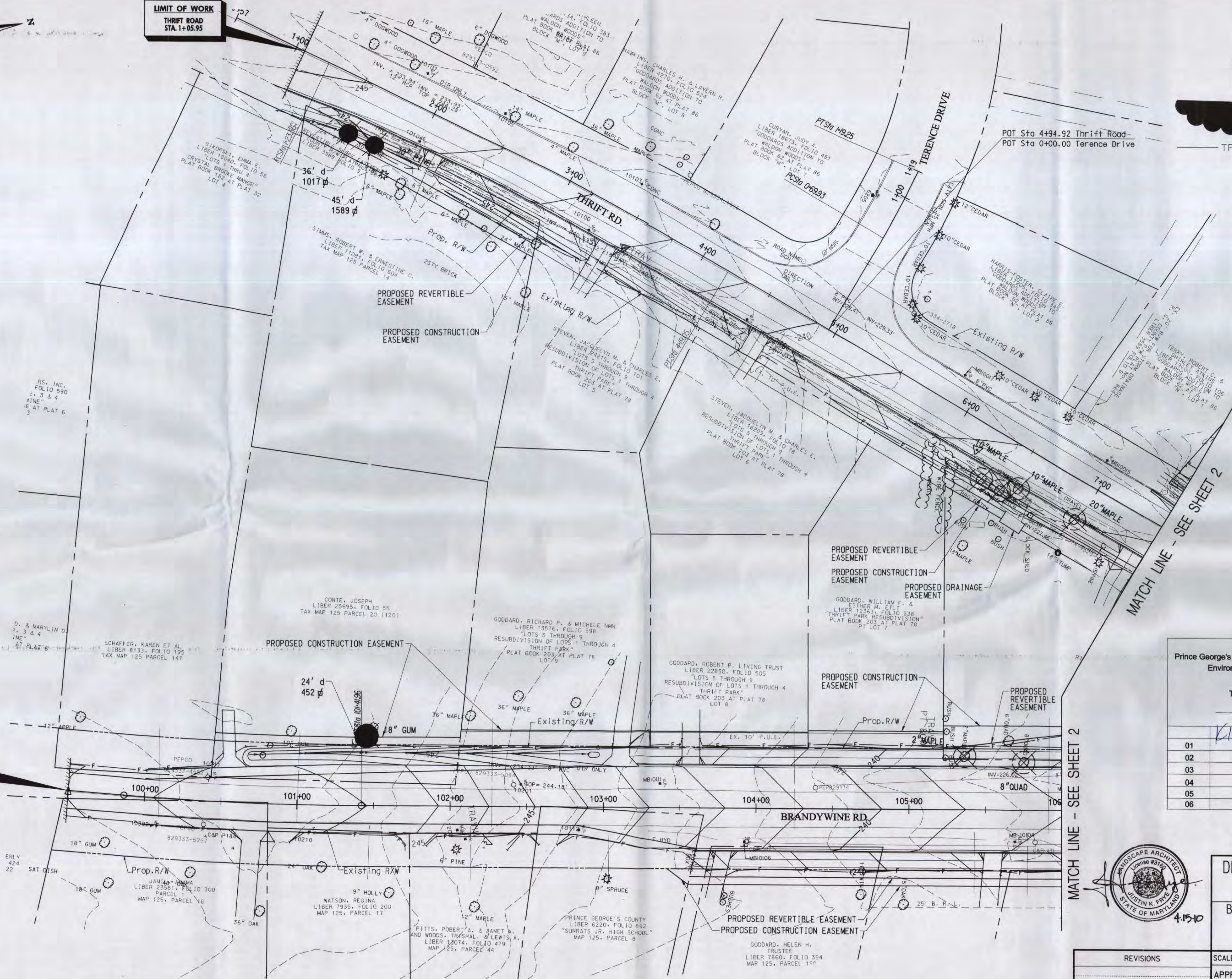
Specimen Tree to be Removed



Area of Tree Removal



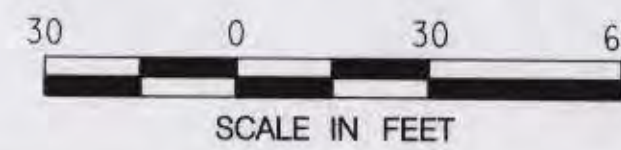
Tree Protection Fence



LIMIT OF WORK
BRANDYWINE ROAD
STA. 99+50.00

TOTAL TREE REMOVAL AREA FOR THIS PROJECT = 18,779 SQ.FT.

TOTAL TREE REMOVAL AREA THIS SHEET = 3058 SQ.FT.



Engineers, Architects
SHELADIA
Development Consultants
1825 Shady Grove Road, Rockville, MD 20850
Phone: 301-585-3331 Fax: 301-585-7074
www.sheladia.com

M-NCPPC Prince George's County Planning Department Environmental Planning Section	
APPROVAL TREE CONSERVATION PLAN	
TCP II 4/10	
APPROVED BY	DATE
<i>K. Funch</i>	4/20/10
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DEPARTMENT OF PUBLIC WORKS
AND TRANSPORTATION
PRINCE GEORGE'S COUNTY, MARYLAND
BRANDYWINE ROAD AT SURRATTS ROAD
INTERSECTION IMPROVEMENT
TREE CONSERVATION PLAN

REVISIONS		SCALE: AS SHOWN	DWG. 135 OF 189
APPROVED		DATE	
FOR HATHAM HJAZI, DIRECTOR			
DESIGNED:		CONTRACT NO.	
DRAWN:		ROAD NO.	
CHECKED: DS		JOB NO.	
APPROVED:		FILE NO.	
CHIEF, HIGHWAYS AND BRIDGES		DATE	

TC-01



MATCH LINE - SEE SHEET 1

MATCH LINE - SEE SHEET 3

LEGEND



Specimen Tree to be Removed

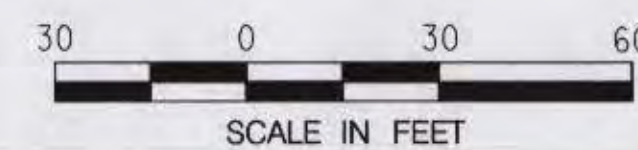


Area of Tree Removal

TP

Tree Protection Fence

TOTAL TREE REMOVAL AREA THIS SHEET = 1017 SQ.FT.



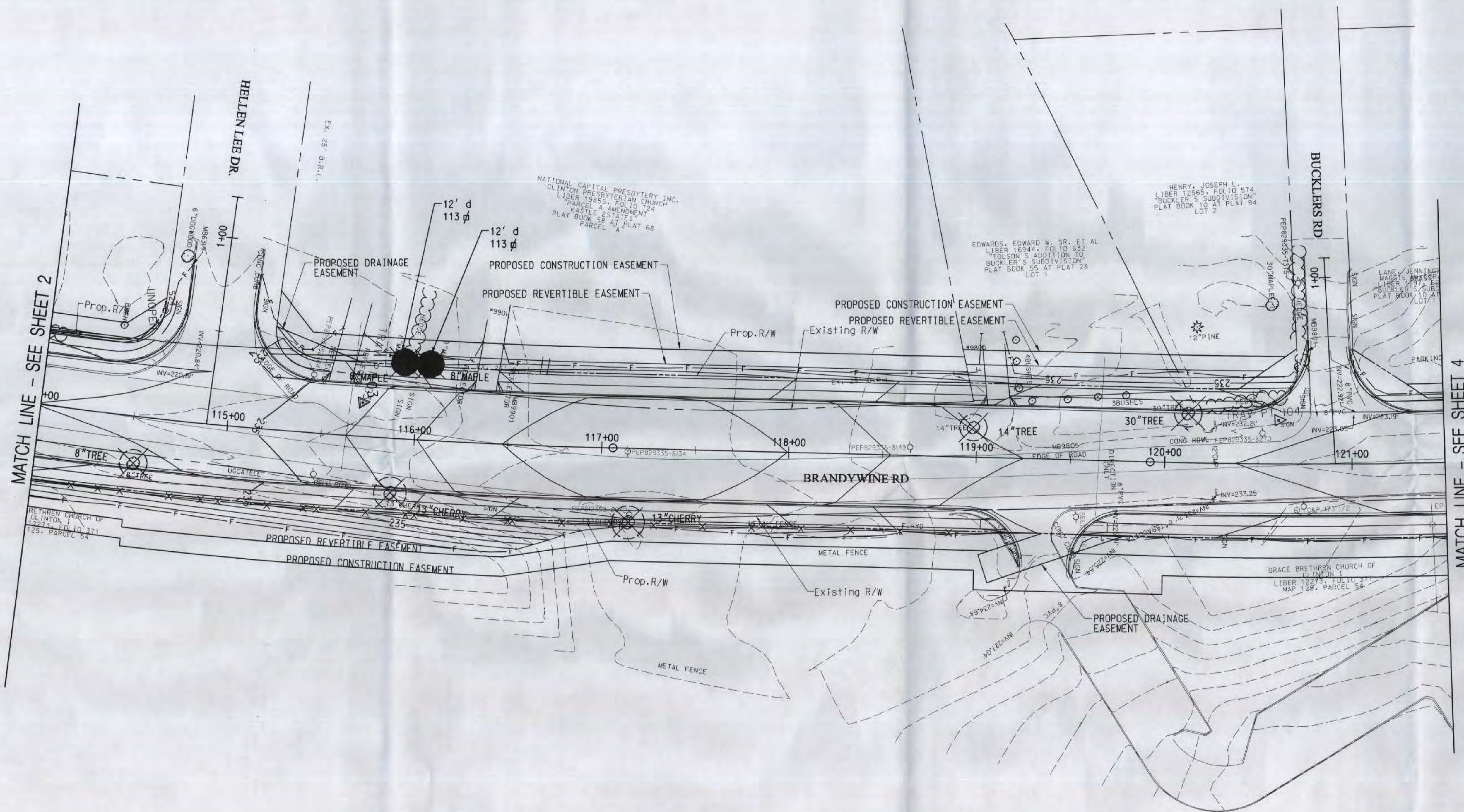
DEPARTMENT OF PUBLIC WORKS
AND TRANSPORTATION
PRINCE GEORGE'S COUNTY, MARYLAND
BRANDYWINE ROAD AT SURRATTS ROAD
INTERSECTION IMPROVEMENT
TREE CONSERVATION PLAN

REVISIONS	SCALE: AS SHOWN	DWG. 136 OF 189
APPROVED	FOR HAITHAM HIJAZI, DIRECTOR	DATE
DESIGNED:		CONTRACT NO.
DRAWN:		ROAD NO.
CHECKED: DS		JOB NO.
APPROVED:		FILE NO.
CHIEF, HIGHWAYS AND BRIDGES	DATE	

M-NCPPC Prince George's County Planning Department Environmental Planning Section APPROVAL TREE CONSERVATION PLAN TCP II /4/10 APPROVED BY DATE 1/20/10	
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TC-02

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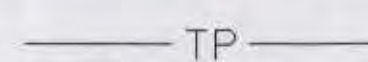
LEGEND



Specimen Tree to be Removed

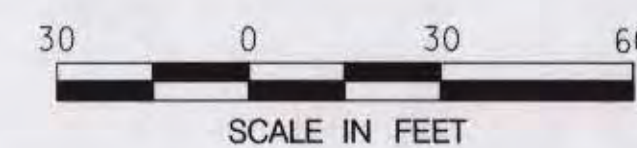


Area of Tree Removal



Tree Protection Fence

TOTAL TREE REMOVAL AREA THIS SHEET = 226 SQ.FT.

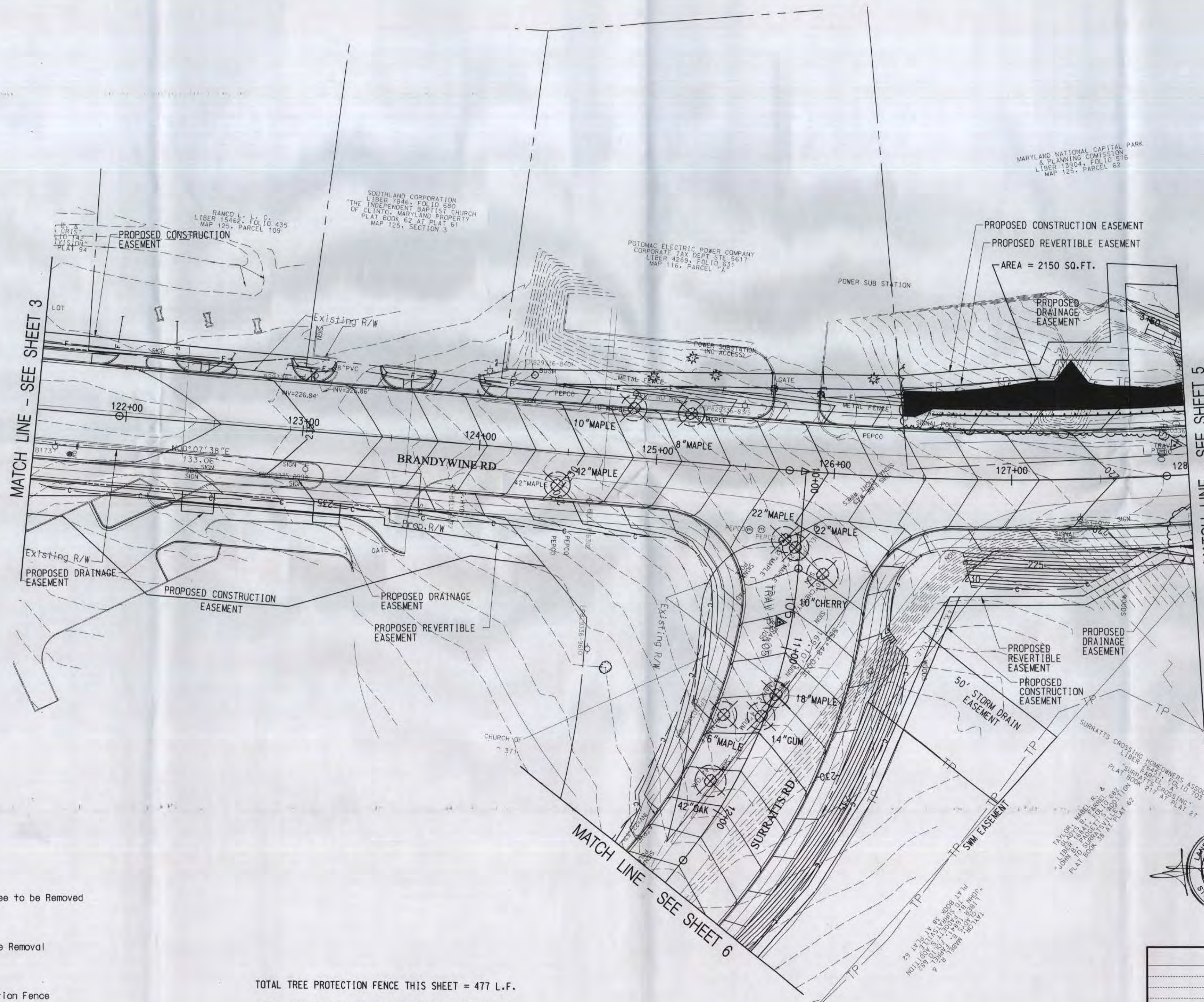


M-NCPPC Prince George's County Planning Department Environmental Planning Section	
APPROVAL TREE CONSERVATION PLAN TCP II 4/10	
APPROVED BY <i>K. Frye</i>	DATE <i>4/20/10</i>
01	
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TC-03

DEPARTMENT OF PUBLIC WORKS
AND TRANSPORTATION
PRINCE GEORGE'S COUNTY, MARYLAND
BRANDYWINE ROAD AT SURRETT'S ROAD
INTERSECTION IMPROVEMENT
TREE CONSERVATION PLAN

REVISIONS		SCALE: AS SHOWN	DWG. 137 OF 189
APPROVED		FOR HAITHAM HJAZI, DIRECTOR	DATE
DESIGNED:			CONTRACT NO.
DRAWN:			ROAD NO.
CHECKED: DS			JOB NO.
APPROVED:			FILE NO.
CHIEF, HIGHWAYS AND BRIDGES		DATE	



LEGEND

Specimen Tree to be Removed

Area of Tree Removal

Tree Protection Fence

TOTAL TREE PROTECTION FENCE THIS SHEET = 477 L.F.

TOTAL TREE REMOVAL AREA THIS SHEET = 2150 SQ.FT.

M-NCPPC Prince George's County Planning Department Environmental Planning Section	
APPROVAL TREE CONSERVATION PLAN TCP II 14/10	
APPROVED BY	DATE
<i>K. F. M. H.</i>	<i>4/20/10</i>
01	
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TC-04

DEPARTMENT OF PUBLIC WORKS
AND TRANSPORTATION
PRINCE GEORGE'S COUNTY, MARYLAND
BRANDYWINE ROAD AT SURRETT'S ROAD
INTERSECTION IMPROVEMENT
TREE CONSERVATION PLAN



REVISIONS		SCALE: AS SHOWN	DWG. 138 OF 189
APPROVED		FOR HAITHAM HUAZI, DIRECTOR	DATE
DESIGNED:			CONTRACT NO.
DRAWN:			ROAD NO.
CHECKED: DS			JOB NO.
APPROVED:			FILE NO.
CHIEF, HIGHWAYS AND BRIDGES			DATE

Engineers, Architects
Development Consultants
SHELADIA
1825 Shady Grove Road, Rockville, MD 20850
Phone: 301-281-2829 Fax: 301-948-7174
www.sheladia.com



LIMIT OF WORK
BRANDYWINE ROAD
STA. 134+50

SURRATS PROPERTIES INC
MARY ANN MILLER
LIBER 3771, FOLIO 812
MAP 116, PARCEL 83

THE J. P. DUKE JR. MEPCO
#9376 VFW INC.
LIBER 1087, FOLIO 355
TAY MAP 116, PARCEL 74

AREA = 178 SQ.FT.

EX. W.S.S.C. SEWER R/W
LIBER 3820 FOLIO 493

EX. FLOOD PLAIN
EASEMENT

Tree Protection Fence

TOTAL TREE REMOVAL AREA THIS SHEET = 8519 SQ.FT.



DEPARTMENT OF PUBLIC WORKS
AND TRANSPORTATION

PRINCE GEORGE'S COUNTY, MARYLAND

BRANDYWINE ROAD AT SURRATTS ROAD
INTERSECTION IMPROVEMENT
TREE CONSERVATION PLAN

M-NCPPC

Prince George's County Planning Department
Environmental Planning Section

APPROVAL
TREE CONSERVATION PLAN

TCP II 1/4/10

APPROVED BY DATE

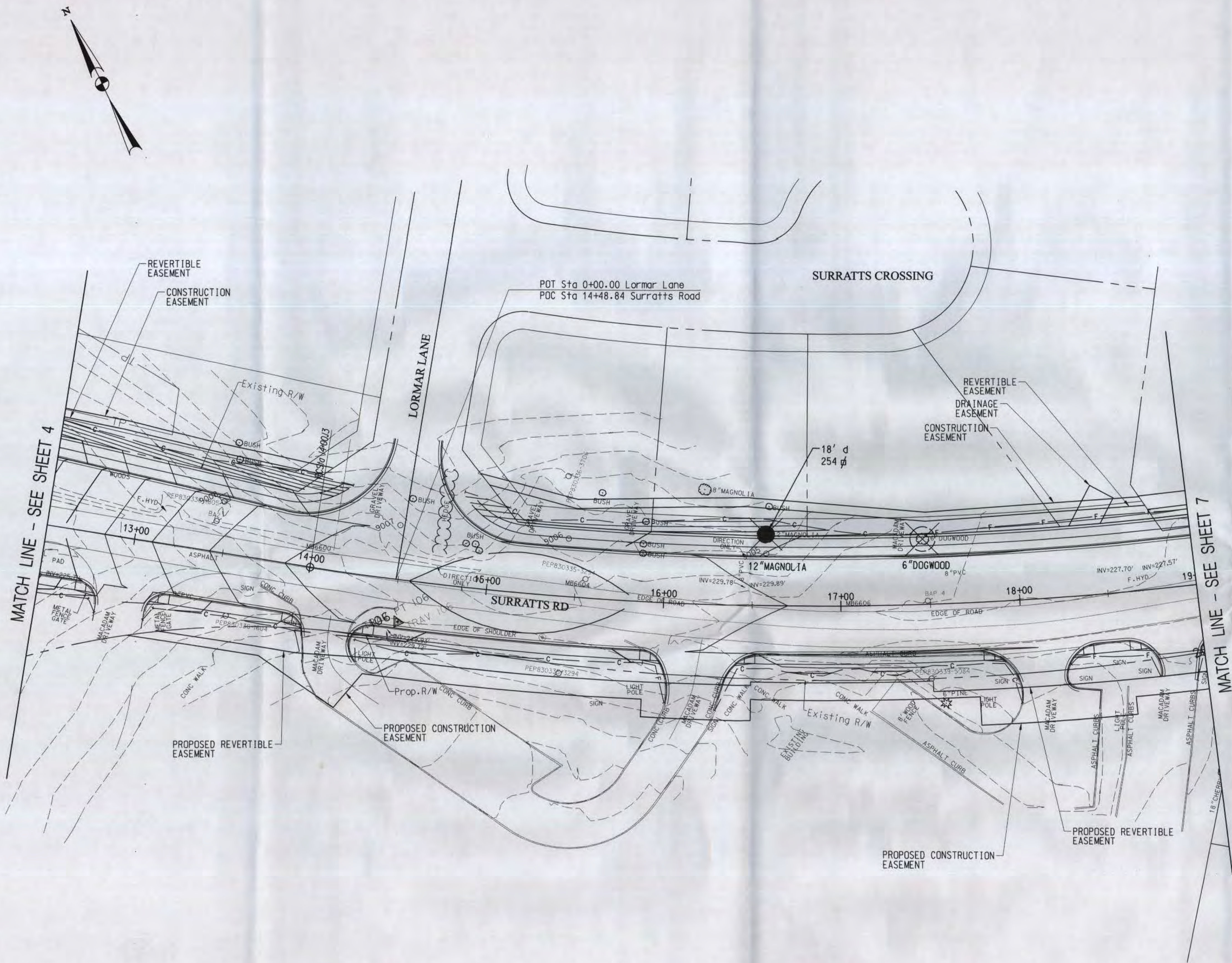
K. Finch *4/29/10*

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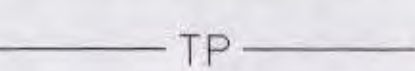
TC-05

REVISIONS	SCALE: AS SHOWN		DWG. 139 OF 189	
	APPROVED			
	FOR HAITHAM HIJAZI, DIRECTOR			DATE
	DESIGNED:	CONTRACT NO.		
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CHECKED: DS	JOB NO.		FILE NO.	
	APPROVED:		DATE	
CHIEF, HIGHWAYS AND BRIDGES				

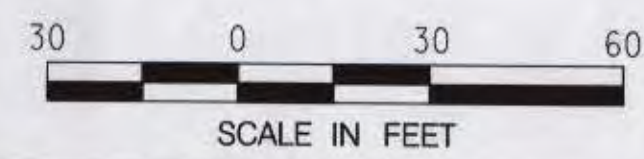
*:5274-220(Surratts)*PLANSHT*PFC-P005_surratts.dgn



LEGEND

-  Specimen Tree to be Removed
-  Area of Tree Removal
-  Tree Protection Fence

TOTAL TREE REMOVAL AREA THIS SHEET = 254 SQ. FT.



**Engineers, Architects
Development Consultants**
15875 Shady Grove Road, Rockville, MD 20850
Phone: 301-593-9339 Fax: 301-593-7174
www.mhdc.com

M-NCPPC Prince George's County Planning Department Environmental Planning Section	
APPROVAL TREE CONSERVATION PLAN	
TCP II / 4/10	
APPROVED BY	DATE
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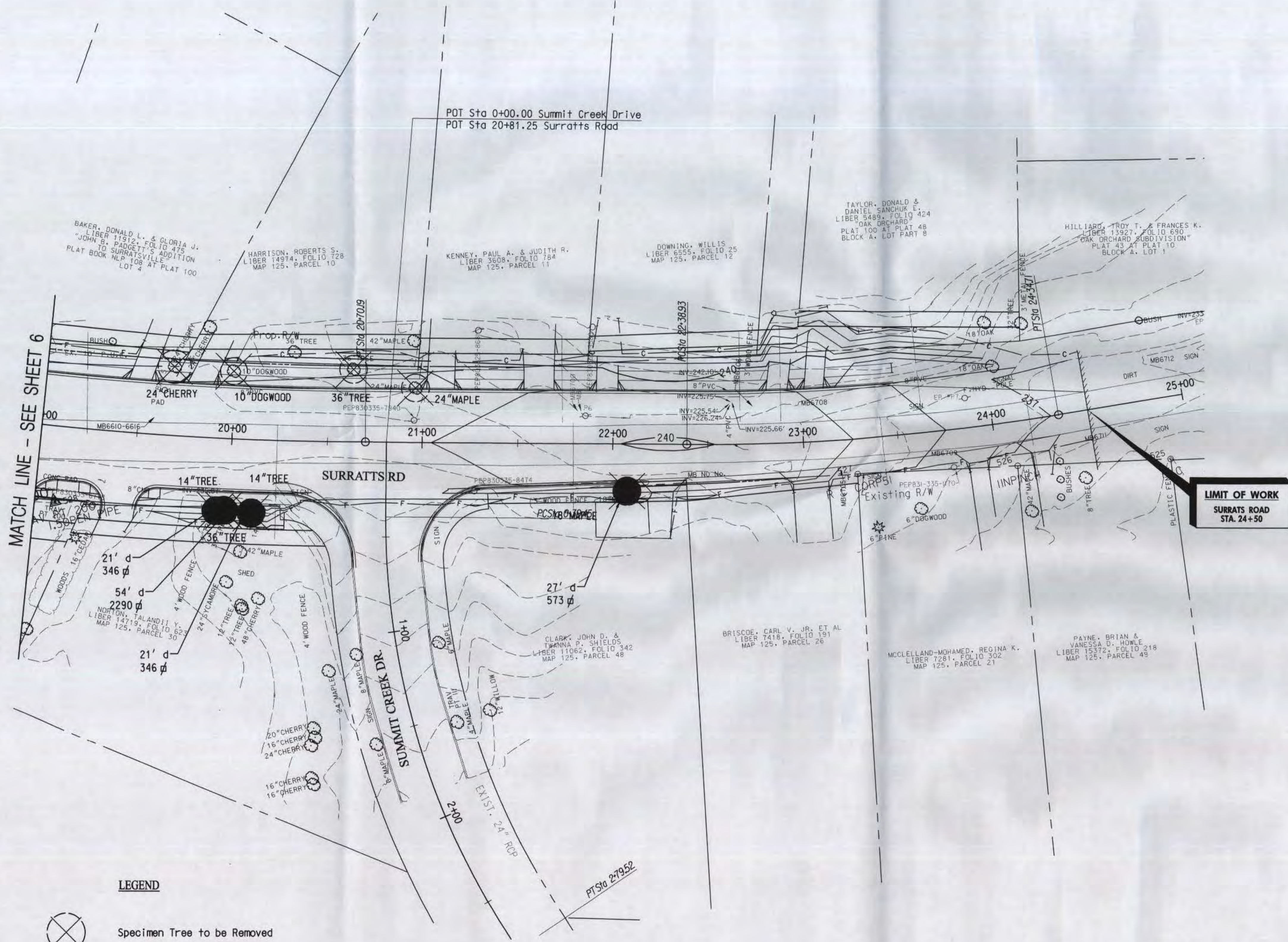


**DEPARTMENT OF PUBLIC WORKS
AND TRANSPORTATION**
PRINCE GEORGE'S COUNTY, MARYLAND
BRANDYWINE ROAD AT SURRETT'S ROAD
INTERSECTION IMPROVEMENT
TREE CONSERVATION PLAN

REVISIONS		SCALE: AS SHOWN	DWG. 140 OF 189
APPROVED		DATE	
FOR HATHAM HUAZI, DIRECTOR		CONTRACT NO.	
DESIGNED:		ROAD NO.	JOB NO.
DRAWN:		FILE NO.	
CHECKED: DS			
APPROVED:			
CHIEF, HIGHWAYS AND BRIDGES		DATE	

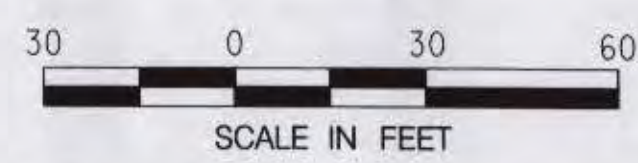
TC-06

K:\2010-2011\2010 Surratts Melanish\606-FC-006-Surratts.dgn
THURSDAY, APRIL 15, 2010 AT 10:43 AM



- LEGEND**
- Specimen Tree to be Removed
 - Area of Tree Removal
 - Tree Protection Fence

TOTAL TREE REMOVAL AREA THIS SHEET = 3555 SQ.FT.



M-NCPPC Prince George's County Planning Department Environmental Planning Section APPROVAL TREE CONSERVATION PLAN TCP II 4/10 APPROVED BY <i>K. E. Smith</i> DATE <i>4/20/10</i>	
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DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
PRINCE GEORGE'S COUNTY, MARYLAND
BRANDYWINE ROAD AT SURRETT'S ROAD
INTERSECTION IMPROVEMENT
TREE CONSERVATION PLAN

REVISIONS		SCALE: AS SHOWN	DWG. 141 OF 189
APPROVED		FOR HATHAM HUAZ, DIRECTOR	DATE
DESIGNED:		CONTRACT NO.	
DRAWN:		ROAD NO.	JOB NO.
CHECKED: DS		FILE NO.	
APPROVED:		DATE	
CHIEF, HIGHWAYS AND BRIDGES			

TC-07