PLOTTED: Mar 01 , 2016 - 2:38pm
INCLUDED XREFS & IMAGES: 24x36.dwg AACO TOPO.dwg 13-4581 WESTST-LIBRARY-BASE.dwg VMAP.tif KLEBASKO LOGO.jpg Court Sidewalk.tif Courthouse.tif Google Earth 2.jpg

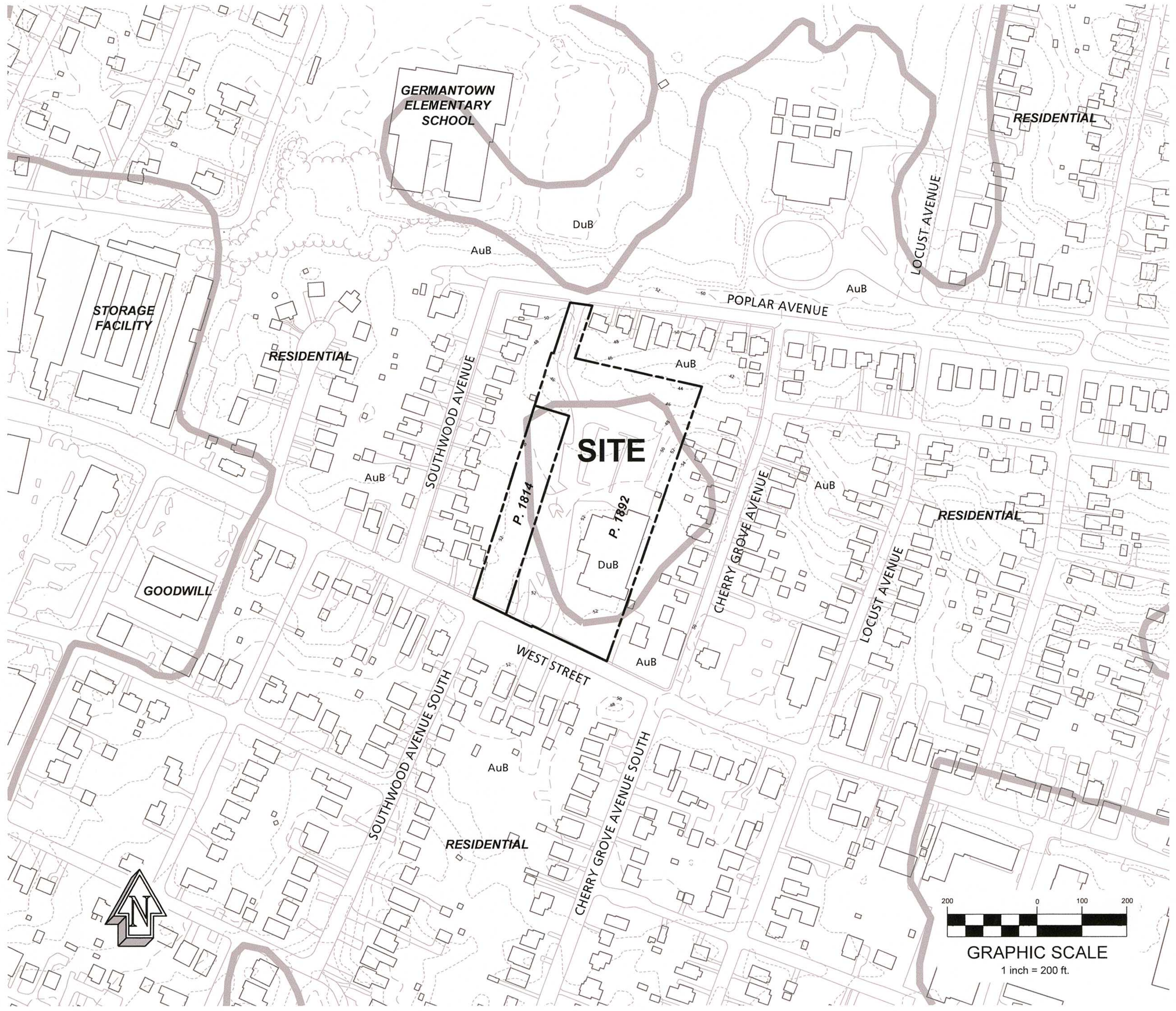
SIMPLIFIED FOREST STAND DELINEATION PLANS
FOR THE
ANNAPOLIS PUBLIC LIBRARY

TAX MAP 51B, GRID 18, PARCELS 1814 AND 1892
1410 WEST STREET AND 1420 WEST STREET
CITY OF ANNAPOLIS, MARYLAND 21401
SIXTH DISTRICT ANNE ARUNDEL COUNTY ZONED R2 & R3-NC

TREE LIST SUMMARY

Tree #	DBH (Diameter at 4.5 feet above grade)	Common Name	Botanical Name	Condition Rating %	Condition Rating	Number of Stems	CRZ (Critical Root Zone Radius in Ft (1.5 ft radius/in DBH))	Site Notes	Condition Notes
1	15	maple, red	Acer rubrum	75	Good	1	23		Full Crown,
2	26	pine, white	Pinus strobus	56	Fair	1	39		Narrow Crown,
3	27	maple, silver	Acer saccharinum	32	Poor	1	41		Full Crown, Branch Decay, Included Bark, Weak Union, Stressed,
4	18,21	cherry, black	Prunus serotina	50	Fair	2	42		Full Crown, Branch Decay,
5	10	willow, black	salix sp.	75	Good	1	15		Full Crown,
6	15	cherry, black	Prunus serotina	75	Good	1	23		Full Crown,
7	16	cherry, black	Prunus serotina	75	Good	1	24		Full Crown,
8	20, 24	cherry, black	Prunus serotina	32	Poor	2	47		Large DW (3"+), Trunk Decay, Branch Decay, Broken Limbs,
9	15	locust, honey	Robinia pseudoacacia	50	Fair	1	23		Full Crown, Small DW (1-2"), Branch Decay, Broken Limbs, Stressed,
10	12	locust, honey	Robinia pseudoacacia	75	Good	1	18		Full Crown,
11	31	maple, red	Acer rubrum	82	Good	1	47		Full Crown,
12	27	maple, red	Acer rubrum	82	Good	1	41		Full Crown, One Sided, Included Bark,
13	14	maple, red	Acer rubrum	68	Fair	1	21		Full Crown,
14	6,6,6,6,6,	magnolia, saucer	Magnolia x soulangeana	75	Good	5	20		Full Crown,
15	18	maple, red	Acer rubrum	75	Good	1	27		Full Crown, Root Damage/Decay,
16	13	mulberry, white	Morus alba	25	Critical	1	20	lean	One Sided, Branch Decay, Suppressed,
17	16	elm, siberian	Ulmus pumila	25	Critical	1	24	lean	Narrow Crown, Suppressed,
18	5	elm, siberian	Ulmus pumila	50	Fair	1	8		Narrow Crown,
19	28	boxelder	Acer negundo	43	Poor	1	42		Narrow Crown, Trunk Decay, Branch Decay,
20	6	boxelder	Acer negundo	50	Fair	1	9		Narrow Crown,
21	16	elm, siberian	Ulmus pumila	50	Fair	1	24		Narrow Crown, Suppressed,
22	27	elm, siberian	Ulmus pumila	43	Poor	1	41	lean	Narrow Crown, Suppressed,
23	6	mulberry, white	Morus alba	50	Fair	1	9		Narrow Crown,
24	10	elm, siberian	Ulmus pumila	50	Fair	1	15		Narrow Crown,
25	5	boxelder	Acer negundo	50	Fair	1	8		Narrow Crown,
26	4	boxelder	Acer negundo	50	Fair	1	6		Narrow Crown,
27	4	boxelder	Acer negundo	50	Fair	1	6		Narrow Crown,
28	38	planetree, london	Platanus × acerifolia	68	Fair	1	57		Full Crown, Large DW (3"+),
29	38	planetree, london	Platanus × acerifolia	71	Good	1	57		Full Crown, One Sided, Large DW (3"+),
30	33	planetree, london	Platanus × acerifolia	86	Good	1	50		Full Crown,
31	6	mulberry, white	Morus alba	50	Fair	1	9		Narrow Crown,
32	6,14,16	elm, siberian	Ulmus pumila	50	Fair	3	33		Narrow Crown, Suppressed,
33	4,5,6,6,6,	mulberry, white	Morus alba	50	Fair	5	18		Narrow Crown, Branch Decay, Suppressed,
34	14	cherry, black	Prunus serotina	50	Fair	1	21	lean	Narrow Crown, Suppressed,
35	12,12	maple, japanese	Acer palmatum	50	Fair	2	26		Narrow Crown, Suppressed, Stressed,
36	35	planetree, london	Platanus × acerifolia	75	Good	1	53		Full Crown, Vines,
37	30	planetree, london	Platanus × acerifolia	75	Good	1	45		Full Crown, Vines,
38	38	planetree, london	Platanus × acerifolia	75	Good	1	57		Full Crown, Vines,
39	4,4,4,4,4,4,	crape myrtle	Lagerstroemia indica	82	Good	6	15		Full Crown, Stressed,
40	26	ash, sp	Fraxinus sp	50	Fair	1	39		Full Crown, Trunk Decay, Stressed,
41	4	maple, sugar	Acer saccharum	75	Good	1	6		Full Crown,
42	4	maple, sugar	Acer saccharum	75	Good	1	6		Full Crown,
43	10	beech, weeping	Fagus sylvatica 'Pendula'	75	Good	1	15		Narrow Crown, Suppressed, Stressed,
44	40	maple, silver	Acer saccharinum	43	Poor	1	60	limited life	Trunk Decay, Branch Decay, Broken Limbs,
45	25	oak, swamp white	Quercus bicolor	89	Good	1	38		Full Crown,
46	25,26	cherry, black	Prunus serotina	50	Fair	2	54		Narrow Crown, Large DW (3"+), Included Bark,
47	29	mulberry, white	Morus alba	50	Fair	1	44		Narrow Crown, One Sided, Trunk Decay,
48	28	mulberry, white	Morus alba	32	Poor	1	42		Narrow Crown, One Sided, Large DW (3"+), Suppressed, Stressed,
49	49	maple, silver	Acer saccharinum	57	Fair	1	74	ohe	Full Crown, Branch Decay, Stressed,
50	31	maple, silver	Acer saccharinum	57	Fair	1	47		Full Crown, Stressed,
51	20	pine, white	Pinus strobus	63	Fair	1	30	lean	Full Crown, One Sided,
52	18	pine, white	Pinus strobus	50	Fair	1	27		Narrow Crown, Broken Limbs,
53	28	pine, white	Pinus strobus	63	Fair	1	42		Full Crown, Broken Limbs,
101	15	maple, silver	Acer saccharinum	50	Fair	1	23	offsite	
102	6,6,6,6,6,6	maple, silver	Acer saccharinum	50	Fair	6	23	offsite	
103	3,3,3	elm, siberian	Ulmus pumila	50	Fair	3	8	offsite	
104	30	maple, norway	Acer platanoides	50	Fair	1	45	offsite	
105	15	maple, red	Acer rubrum	50	Fair	1	23	offsite	
106	29	pine, white	Pinus strobus	50	Fair	1	44	offsite	
107	28	cherry, black	Prunus serotina	50	Fair	1	42	offsite	
108	26	cherry, black	Prunus serotina	25	Critical	1	39	offsite	
109	22	maple, silver	Acer saccharinum	25	Critical	1	33	offsite	
110	18	pine, white	Pinus strobus	50	Fair	1	27	offsite	
111	5,5,5,5,5,5,5, 5,5	crape myrtle	Lagerstroemia indica	50	Fair	10	24	offsite	
112	6,6,6	birch, river	Betula nigra	50	Fair	3	15	offsite	
113	9,9,9	birch, river	Betula nigra	50	Fair	3	24	offsite	
114	32	pecan	Carya illinoinensis	50	Fair	1	48	offsite	
115	26	elm, siberian	Ulmus pumila	50	Fair	1	39	offsite	
116	14	pagoda tree	Sophora japonica	50	Fair	1	21	offsite	

NOTES:
1. SHADED TREES INDICATE SPECIMEN TREES
2. TREES 101 - 116 ARE OFFSITE AND APPROXIMATELY LOCATED SINCE WE COULD NOT ENTER PRIVATE PROPERTY TO LOCATE BY SURVEY.

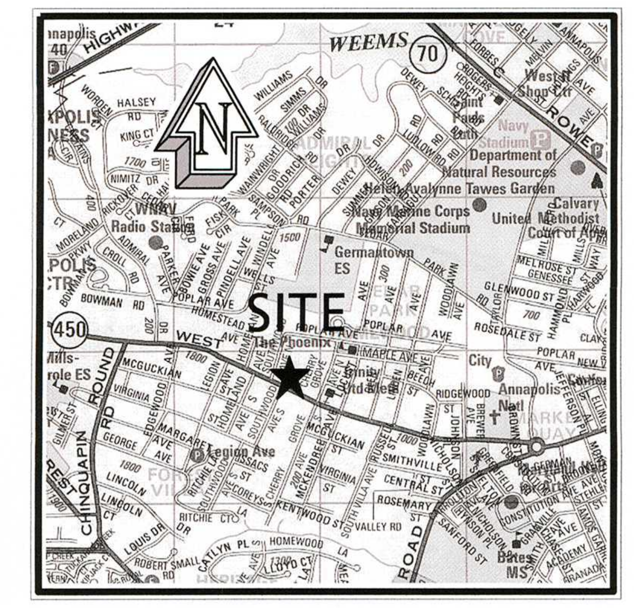


LOCATION MAP
SCALE: 1"=200'

MAPPED SOIL TYPES

MAP UNIT SYMBOL	MAP UNIT NAME	HYDRIC RATING	DRAINAGE CLASS	HYDROLOGICAL SOIL GROUP	K-FACTOR WHOLE SOIL
AuB	ANNAPOLIS URBAN LAND COMPLEX, 0 TO 5% SLOPES	0	WELL DRAINED	C	0.24
DuB	DONLONTON URBAN LAND COMPLEX, 0 TO 5% SLOPES	5	MODERATELY WELL DRAINED	D	0.24

SOURCE: http://websoilsurvey.nrcs.usda.gov (FEBRUARY, 2016)



VICINITY MAP
SCALE: 1"=2000'
© ADC THE MAP PEOPLE
PERMITTED USE NO. 08301200

GENERAL NOTES

A. TOTAL SITE AREA = 4.80 ACRES (PARCELS 1814 AND 1892)

B. TOTAL FOREST AREA = 0.0 ACRES

C. TOTAL FLOODPLAIN AREA = 0.0 ACRES
FORESTED FLOODPLAIN AREA = 0.0 ACRES

D. NO RARE, THREATENED, OR ENDANGERED SPECIES ARE KNOWN TO EXIST ON THE PROPERTY.

E. NO KNOWN HISTORIC STRUCTURES ARE LOCATED ON THE PROPERTY.

F. THE SIMPLIFIED FOREST STAND DELINEATION FIELD WORK WAS CONDUCTED BY CHRIS COWLES OF WETLAND STUDIES AND SOLUTIONS INC. ON FEBRUARY 22, 2016.

G. TWELVE (12) SPECIMEN TREES EXIST ON OR WITHIN CLOSE PROXIMITY TO THE PROPERTY LINE.

H. A FORMAL WETLAND DELINEATION IN ACCORDANCE WITH THE 1987 CORPS OF ENGINEERS' WETLANDS DELINEATION MANUAL AND THE REGIONAL SUPPLEMENT TO THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL: ATLANTIC AND GULF COASTAL PLAIN REGION WAS PERFORMED BY KENNETH R. WALLIS OF WETLAND STUDIES AND SOLUTIONS INC. ON FEBRUARY 24, 2016. NO JURISDICTIONAL WATERS OF THE U.S., INCLUDING NON-TIDAL WETLANDS EXIST WITHIN THE LIMITS THE PROPERTY.

SITE LEGEND

PROPERTY LINE	
EXISTING CONTOUR	142
EXISTING FOREST	
EXISTING SOILS BOUNDARY	
EXISTING SOILS DESIGNATION	DuB
EXISTING STORM DRAIN	SD
EXISTING WATER	W
EXISTING SEWER	SS
EXISTING GAS	G
EXISTING ELECTRIC	E
EXISTING TELEPHONE	T
EXISTING FENCE	X
EXISTING UTILITY POLE W/ OVERHEAD WIRE	
EXISTING LIGHT POLE	
EXISTING ZONING BOUNDARY	
EXISTING ZONING DESIGNATION	R2
EXISTING TREE AND TREE ID	T-1
EXISTING SPECIMEN TREE W/ CRITICAL ROOT ZONE AND TREE ID	T-2

DRAWING INDEX

1 OF 2 ..... SIMPLIFIED FOREST STAND DELINEATION COVER SHEET
2 OF 2 ..... SIMPLIFIED FOREST STAND DELINEATION PLAN

Wetland Studies and Solutions, Inc.® a DAVEY company

SIMPLIFIED FOREST STAND DELINEATION PLAN CERTIFIED BY:
CHRIS COWLES 3/2/2016 DATE
WETLAND STUDIES AND SOLUTIONS, INC.
QUALIFIED PROFESSIONAL PER
(COMAR 08.19.06.01)

Revisions

Rev. #	By	Date	Description

I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
Terry Schuman
19593 License No.
3/31/16 Expiration Date

Copyright © 2016
Bay Engineering Inc.
All Rights Reserved.
Warning: This document is an instrument of professional service prepared by Bay Engineering Inc. Alteration of this document by any party other than Bay Engineering Inc. is a violation of law that will be prosecuted to its fullest extent.

Bay Engineering Inc.
Engineers, Planners and Surveyors
2661 Riva Road, Building 800
Annapolis, Maryland 21401
410.897.9290
410.897.9295 fax
email: info@bayengineering.com
www.bayengineering.com

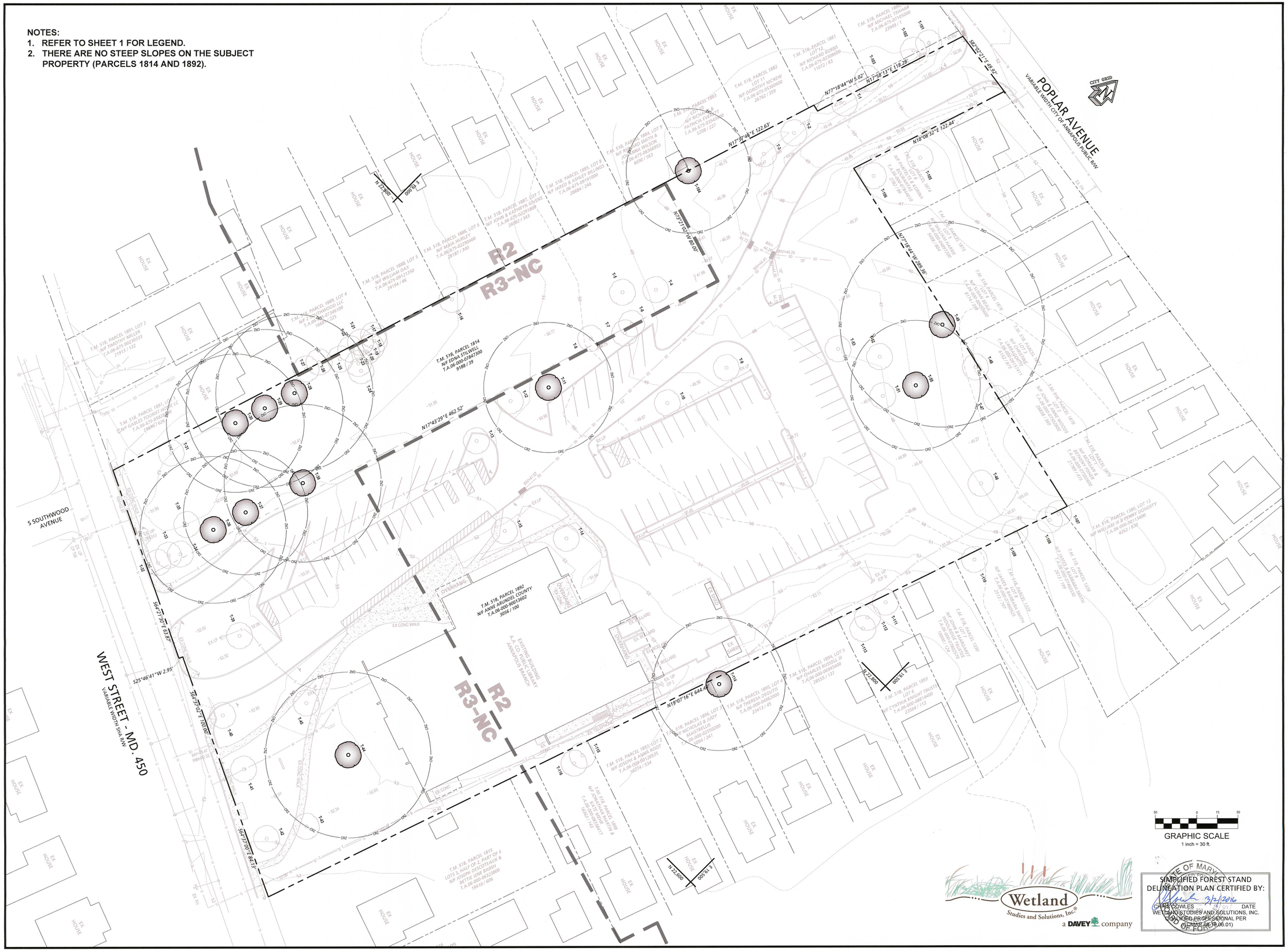
Date: FEBRUARY, 2016
Job Number: 13-4581
Scale: AS SHOWN
Drawn By: LS
Approved By: TS
Folder Reference: ANNAPOLIS PUBLIC LIBRARY WEST STREET, ANNAPOLIS

SIMPLIFIED FOREST STAND DELINEATION COVER SHEET
SIMPLIFIED FOREST STAND DELINEATION PLANS
FOR THE
ANNAPOLIS PUBLIC LIBRARY
TAX MAP 51B, GRID 18, PARCELS 1814 AND 1892
1410 WEST STREET AND 1420 WEST STREET
CITY OF ANNAPOLIS, MARYLAND 21401
SIXTH DISTRICT ANNE ARUNDEL COUNTY ZONED R2 & R3-NC

F:\13-4581 Annapolis Public Library\Drawing Files\Forest Stand Plans\13-4581 WESTST-LIBRARY-FOREST STAND PLANS.dwg

NOTES:

1. REFER TO SHEET 1 FOR LEGEND.
2. THERE ARE NO STEEP SLOPES ON THE SUBJECT PROPERTY (PARCELS 1814 AND 1892).



Wetland Studies and Solutions, Inc.
a DAVEY company

SIMPLIFIED FOREST STAND DELINEATION PLAN CERTIFIED BY:
CHAS COWLES — 3/31/2016 — DATE
WETLAND STUDIES AND SOLUTIONS, INC.
QUALIFIED PROFESSIONAL PER
COMAR 08.19.06.01)

STATE OF MARYLAND — CHARLES COWLES — No. 1000 — QUALIFIED PROFESSIONAL

Revisions

Rev. #	By	Date	Description

I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.

Terry Schuman — Date 3/31/16
License No. 19593 — Expiration Date

Copyright © 2016
Bay Engineering Inc.
All Rights Reserved.

Warning: This document is an instrument of professional service prepared by Bay Engineering Inc. Alteration of this document by any party other than Bay Engineering Inc. is a violation of law that will be prosecuted to its fullest extent.

Bay Engineering Inc.
Engineers, Planners and Surveyors
2661 Riva Road, Building 800
Annapolis, Maryland 21401
410.897.9290
410.897.9291 fax
email: info@bayengineering.com
www.bayengineering.com

Date FEBRUARY, 2016
Job Number 13-4581
Scale 1"=30'
Drawn By LS
Approved By TS
Folder Reference ANNAPOLIS PUBLIC LIBRARY WEST STREET, ANNAPOLIS

SIMPLIFIED FOREST STAND DELINEATION PLAN
SIMPLIFIED FOREST STAND DELINEATION PLANS
FOR THE

ANNAPOLIS PUBLIC LIBRARY

TAX MAP 51B GRID 18, PARCELS 1814 AND 1892
1410 WEST STREET AND 1420 WEST STREET
CITY OF ANNAPOLIS, MARYLAND 21401
SIXTH DISTRICT ANNE ARUNDEL COUNTY ZONED R2 & R3-NC

Sheet No. 2 OF 2

PLOTTED: Mar 01, 2016 - 2:39pm
INCLUDED XREFS & IMAGES: 24x36.dwg AACO TOPO.dwg 13-4581 WESTST-LIBRARY-BASE.dwg VMAP.tif KLEBASKO LOGO.jpg Court Sidewalk.tif Courthouse.tif Google Earth 2.jpg

F:\13-4581 Annapolis Public Library\Drawing Files\Forest Stand Plans\13-4581 WESTST-LIBRARY-FOREST STAND PLANS.dwg