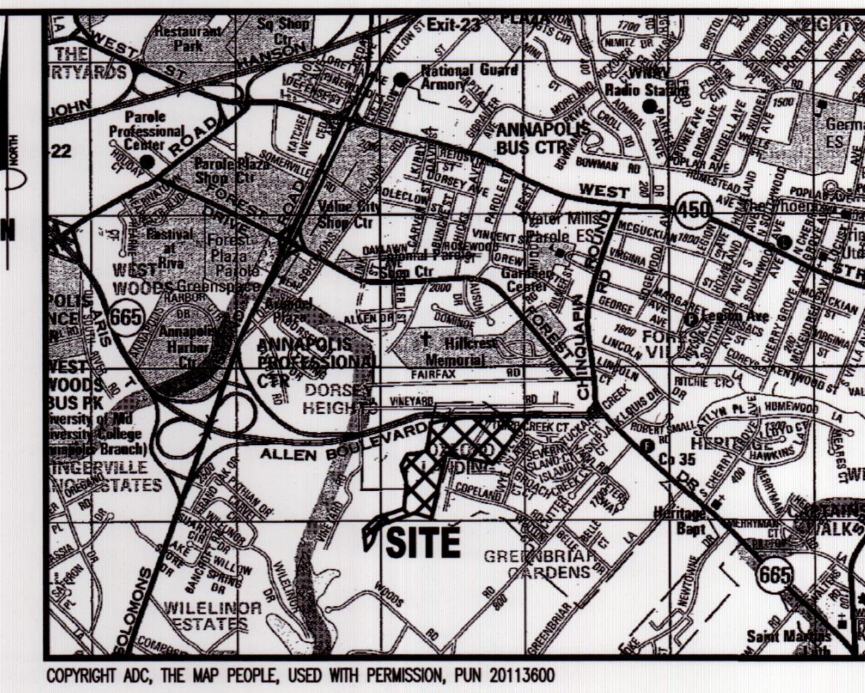
# FOREST STAND DELINEATION

## SITE NOTES:

1. GROSS TRACT AREA: 23.382 ACRES (1,018,508 S.F.)
2. FSD STUDY AREA: 13.04 ACRES (568,022.40 S.F.)
3. THERE IS NO 100-YEAR FLOOD PLAIN WITHIN THE FSD STUDY AREA.
4. THERE IS A 100-YEAR FLOOD PLAIN IN THE FOREST CONSERVATION AREA (FEMA FIRM MAP PANEL NO. 24003C0233E), AT THE SOUTHERN TIP OF THE GROSS AREA.
5. NON-TIDAL WETLANDS ARE NOT PRESENT WITHIN THE FSD STUDY AREA.
6. NON-TIDAL WETLAND BUFFERS ENCROACH ON TO THE FSD THE STUDY AREA.
7. EPHEMERAL AND INTERMITTENT STREAMS AND BUFFERS EXIST ON-SITE AND IN THE STUDY AREA,
8. THE EXISTING FOREST CONSERVATION EASEMENT IS 11.643 ACRES, DEED RECORDED AS PLAT NO. 15223-15225 IN PLAT BOOK 293, PAGE 47 TO 49 ON MAY 2007. LIBER 16487 FOLIO 504.
9. TOPO AND BOUNDARY PROVIDED BY BOWMAN CONSULTING, JAN. 2007.
10. WETLAND INFORMATION PROVIDED BY BOWMAN CONSULTING IN 2007 AND VERIFIED BY ENVIROPROJECTS, LLC IN 2014.
11. SPECIMEN TREES AND FOREST STANDS IDENTIFIED BY ENVIROPROJECTS, LLC JANUARY 2014 AND SURVEYED BY DEWBERRY IN 2014.
12. THERE ARE 15-25% SLOPES AND 25% SLOPES OR GREATER IN THE FSD STUDY AREA.
13. THERE ARE 12.3 ACRES OF EXISTING FOREST IN THE FSD STUDY AREA.
14. A PREVIOUS FSD FOR THE ENTIRE GROSS AREA WAS PREPARED BY BOWMAN CONSULTING, 2007.
15. FOREST STAND NARRATIVE IS LOCATED ON FSD-3.
16. THE SUBJECT PROPERTY IS ZONED R1, R1-A, AND R1-B. CONTIGUOUS ZONING CLASSES INCLUDE R1-A, R2, AND R3.

## LEGEND

- FORESTED WETLANDS
- EXISTING FOREST CONSERVATION EASEMENT
- WETLAND DELINEATION LINE
- 100' WETLAND/STREAM BUFFER
- 100-YEAR FLOODPLAIN
- FOREST STAND
- T-1 SIGNIFICANT TREE WITH CRITICAL ROOT ZONE
- EPHEMERAL STREAM
- INTERMITTENT STREAM
- FSD STUDY AREA
- FSD SAMPLE POINT
- 15-25% SLOPE
- 25% SLOPE OR GREATER
- HIGHLY ERODIBLE SOILS

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VICINITY MAP

SCALE: 1" = 2,000'

FOR SOIL STRUCTURAL QUALITIES, REFER TO: "SUBSURFACE EXPLORATION AND PRELIMINARY GEOTECHNICAL ENGINEERING REPORT" BY SOIL CONSULTANTS, INC. IN MANASSAS, VA., DATED APRIL 27, 2005.

**ARIS T ALLEN, FOREST STAND DELINEATION PLAN NARRATIVE and TABLES**
V: April 23, 2014

**ATA Specimen Trees Table, see separate sheet**
**ATA Soil Series Table**

**Aris T Allen Site, Soil Series**

| Soil Series Map Unit- Hydric Rating - Anne Arundel County, Maryland | | | |
|---|---|---|---|
| Map unit symbol | Map unit name | Rating | K factor |
| AdB | Adelphia-Holmdel complex, 2 to 5 percent slopes | Partially Hydric | 0.37 |
| AoB | Annapolis loamy sand, 2 to 5 percent slopes | Not Hydric | 0.20 |
| AoC | Annapolis loamy sand, 5 to 10 percent slopes | Not Hydric | 0.28 |
| AsB | Annapolis fine sandy loam, 2 to 5 percent slopes | Not Hydric | 0.28 |
| AsC | Annapolis fine sandy loam, 5 to 10 percent slopes | Not Hydric | 0.28 |
| AsE | Annapolis fine sandy loam, 15 to 25 percent slopes | Partially Hydric | 0.28 |
| AuB | Annapolis-Urban land complex, 0 to 5 percent slopes | Not Hydric | 0.28 |
| AuD | Annapolis-Urban land complex, 5 to 15 percent slopes | Not Hydric | 0.28 |
| CnB | Colemantown-Urban land complex, 0 to 5 percent slopes | Partially Hydric | |
| CpB | Collington-Wist-Urban land complex, 0 to 5 percent slopes | Not Hydric | 0.32 |
| CRD | Collington and Annapolis soils, 10 to 15 percent slopes | Not Hydric | 0.28 |
| DnA | Donlonton fine sandy loam, 0 to 2 percent slopes | Partially Hydric | 0.32 |
| DuB | Donlonton-Urban land complex, 0 to 5 percent slopes | Partially Hydric | 0.32 |
| UxB | Udorthents, loamy, sulfidic substratum, 0 to 5 percent slopes | Not Hydric | 0.28 |
| WBA | Widewater and Issue soils, 0 to 2 percent slopes, frequently flooded | Partially Hydric | |

**ARIS T ALLEN** Forest Stand Delineation
**BIG & SIGNIFICANT TREES and CRITICAL ROOT ZONE CALCULATOR**
EnviroProjects, LLC ©
Project-based Environmental Compliance Strategies
WO#: 20130099
CRZ = RADIUS IN FEET
1/28/2014

**Significant Tree Study**

| Label | Size " | Species | Common | CRZ | Condition | Stand |
|---|---|---|---|---|---|---|
| T100 | 32 | *Liriodendron tulipifera* | Tulip Poplar | 48 | Good | A |
| T99 | 31 | *Liriodendron tulipifera* | Tulip Poplar | 47 | Fair | A |
| T98 | 45 | *Liriodendron tulipifera* | Tulip Poplar | 68 | Good | A |
| T97 | 26 | *Liriodendron tulipifera* | Tulip Poplar | 39 | Good | A |
| T96 | 24 | *Liriodendron tulipifera* | Tulip Poplar | 36 | Good | A |
| T95 | 26 | *Liriodendron tulipifera* | Tulip Poplar | 39 | Fair | A |
| T94 | 37 | *Prunus serotina* | Black Cherry | 56 | Poor | A |
| T93 | 42 | *Robinia pseudoacacia* | Black Locust | 63 | Poor | A |
| T92 | 26 | *Acer negundo* | Box Elder | 39 | Fair | A |
| T91 | 40 | *Quercus alba* | White Oak | 60 | Fair | A |
| T90 | 44 | *Quercus alba* | White Oak | 66 | Good | A |
| T89 | 33 | *Acer rubrum* | Red Maple | 50 | Poor | A |
| T88 | 30 | *Liriodendron tulipifera* | Tulip Poplar | 45 | Good | A |
| T87 | 24 | *Liriodendron tulipifera* | Tulip Poplar | 36 | Good | A |
| T86 | 33 | *Liriodendron tulipifera* | Tulip Poplar | 50 | Good | A |
| T85 | 44 | *Quercus alba* | White Oak | 66 | Poor | A |
| T84 | 40 | *Quercus phellos* | Willow Oak | 60 | Good | A |
| T83 | 35 | *Quercus phellos* | Willow Oak | 53 | Good | A |
| T82 | 36 | *Quercus phellos* | Willow Oak | 54 | Good | A |
| T81 | 39 | *Quercus phellos* | Willow Oak | 59 | V. Good | A |
| T80 | 35 | *Quercus alba* | White Oak | 53 | Good | A |
| T79 | 32 | *Quercus alba* | White Oak | 48 | Good | A |
| T78 | 31 | *Quercus phellos* | Willow Oak | 47 | Good | A |
| T77 | 25 | *Liriodendron tulipifera* | Tulip Poplar | 38 | Good | A |
| T76 | 41 | *Quercus alba* | White Oak | 62 | Good | A |
| T75 | 38 | *Quercus alba* | White Oak | 57 | Good | A |
| T74 | 30 | *Liriodendron tulipifera* | Tulip Poplar | 45 | Good | A |
| T73 | 30 | *Liriodendron tulipifera* | Tulip Poplar | 45 | Good | A |
| T72 | 25 | *Quercus alba* | White Oak | 38 | Fair | A |
| T71 | 38 | *Quercus alba* | White Oak | 57 | Fair | A |
| T70 | 42 | *Quercus alba* | White Oak | 63 | Poor | A |
| T69 | 48 | *Quercus alba* | White Oak | 72 | Good | A |
| T68 | 26 | *Prunus serotina* | Black Cherry | 39 | Fair | A |
| T67 | 30 | *Liriodendron tulipifera* | Tulip Poplar | 45 | Good | A |
| T66 | 32 | *Liriodendron tulipifera* | Tulip Poplar | 48 | Good | A |
| T65 | 28 | *Prunus serotina* | Black Cherry | 42 | Fair | A |
| T64 | 25 | *Prunus serotina* | Black Cherry | 38 | Poor | A |

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QUALIFIED PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THE INFORMATION SHOWN HEREON IS CORRECT AND THAT THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF EXISTING STATE AND COUNTY FOREST CONSERVATION LEGISLATION.

4-28-14 Claire L. Williams

DATE

McLAREN ENGINEERING GROUP
BY: CLAIRE LEE WILLIAMS
REGISTERED LANDSCAPE ARCHITECT
MARYLAND REG. NO. 557

EnviroProjects, LLC
Project-based Environmental Compliance Strategies

SCALE: 1" = 100' (100' 0 100' 200' FEET)

THESE PLANS ARE BASED UPON PLANS TITLED 'ARIS ALLEN BOULEVARD, LLC MIXED RESIDENTIAL' CREATED BY BOWMAN CONSULTING, PORTIONS OF WHICH ARE USED HEREIN.

PLOT TIME: Sun, 27 Apr 2014 - 4:28pm LAST SAVE: Sun, 27 Apr 2014 - 4:28pm

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| NO. | DATE | REVISION | BY |
|---|---|---|---|

McLaren ENGINEERING GROUP applied ingenuity
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PROJECT
ARIS T. ALLEN BOULEVARD
RESIDENTIAL PLANNED DEVELOPMENT
(PART 1)
TAX MAP/GRID: 51E/8
6TH ELECTION DISTRICT
CITY OF ANNAPOLIS, MARYLAND

STATE OF MARYLAND — REGISTERED LANDSCAPE ARCHITECT NO. 557
4-28-14

SHEET TITLE
OVERALL FOREST STAND DELINEATION PLAN
GRADING PERMIT NO.: GRD 14 - 0006

| | |
|---|---|
| PROJECT NO. | 130003.01 |
| SCALE | AS SHOWN |
| DATE | 4/28/2014 |
| DRAWN BY | JDS/CLW |
| CHECKED BY | PVM/TJC |
| DRAWING NO. | FSD-1 |

57 OF 63 SHTS