

SPECIMEN TREE INVENTORY

| KEY | BOTANICAL NAME COMMON NAME | SIZE (dbh) | CRZ (radius) | CONDITION |
|-----|---|------------|--------------|---------------------------|
| 1 | FAGUS GRANDIFOLIA AMERICAN BEECH | 36" | 54' | GOOD |
| 2 | FAGUS GRANDIFOLIA AMERICAN BEECH | 36" | 54' | GOOD |
| 3 | FAGUS GRANDIFOLIA AMERICAN BEECH | 31" | 46.5' | GOOD |
| 4 | FAGUS GRANDIFOLIA AMERICAN BEECH | 35" | 52.5' | GOOD |
| 5 | QUERCUS ALBA WHITE OAK | 33" | 49.5' | GOOD |
| 6 | LIRIODENDRON TULIPIFERA TULIP POPLAR | 37" | 55.5' | FAIR TRUNK SPLIT |
| 7 | LIRIODENDRON TULIPIFERA TULIP POPLAR | 30" | 45' | GOOD |
| 8 | QUERCUS ALBA WHITE OAK | 48" | 72' | GOOD |
| 9 | LIRIODENDRON TULIPIFERA TULIP POPLAR | 46" | 72' | FAIR TRUNK SPLIT |
| 10 | LIRIODENDRON TULIPIFERA TULIP POPLAR | 33" | 49.5' | FAIR TREE STAND DAMAGE |
| 11 | LIRIODENDRON TULIPIFERA TULIP POPLAR | 33" | 49.5' | POOR |
| 12 | QUERCUS ALBA WHITE OAK | 36" | 54' | POOR |
| 13 | QUERCUS ALBA WHITE OAK | 34" | 51' | GOOD |
| 14 | QUERCUS ALBA WHITE OAK | 33" | 49.5' | GOOD |
| 15 | QUERCUS ALBA WHITE OAK | 36" | 54' | GOOD |
| 16 | QUERCUS ALBA WHITE OAK | 32" | 48' | GOOD |
| 17 | FAGUS GRANDIFOLIA AMERICAN BEECH | 40" | 60' | GOOD |
| 18 | FAGUS GRANDIFOLIA AMERICAN BEECH | 37" | 55.5' | GOOD |
| 19 | FAGUS GRANDIFOLIA AMERICAN BEECH | 45" | 67.5' | GOOD |
| 20 | FAGUS GRANDIFOLIA AMERICAN BEECH | 39" | 58.5' | GOOD |
| 21 | FAGUS GRANDIFOLIA AMERICAN BEECH | 41" | 61.5' | GOOD |
| 22 | FAGUS GRANDIFOLIA AMERICAN BEECH | 38" | 57' | GOOD |
| 23 | FAGUS GRANDIFOLIA AMERICAN BEECH | 38" | 57' | GOOD |
| 24 | FAGUS GRANDIFOLIA AMERICAN BEECH | 34" | 51' | GOOD |
| 25 | FAGUS GRANDIFOLIA AMERICAN BEECH | 34" | 51' | GOOD |
| 26 | FAGUS GRANDIFOLIA AMERICAN BEECH | 34" | 51' | GOOD |
| 27 | QUERCUS PRINUS CHESTNUT OAK | 32" | 48' | GOOD |
| 28 | PLATANUS OCCIDENTALIS SYCAMORE | 34" | 51' | GOOD |
| 29 | LIRIODENDRON TULIPIFERA TULIP POPLAR | 32" | 48' | GOOD |
| 30 | LIQUIDAMBAR STYRACIFLUA SWEET GUM | 33" | 49.5' | GOOD |
| 31 | LIRIODENDRON TULIPIFERA TULIP POPLAR | 30" | 45' | GOOD |
| 32 | LIRIODENDRON TULIPIFERA TULIP POPLAR | 30" | 45' | GOOD |
| 33 | QUERCUS ALBA WHITE OAK | 52" | 78' | POOR TRUNK DECAY |
| 34 | ACER PLATANOIDES NORWAY MAPLE | 35" | 52.5' | GOOD |
| 35 | QUERCUS ALBA WHITE OAK | 38" | 57' | GOOD |
| 36 | QUERCUS ALBA WHITE OAK | 37" | 55.5' | GOOD |
| 37 | QUERCUS ALBA WHITE OAK | 35" | 52.5' | GOOD |
| 38 | QUERCUS ALBA WHITE OAK | 32" | 48' | GOOD |
| 39 | LIRIODENDRON TULIPIFERA TULIP POPLAR | 46" | 69' | GOOD |
| 40 | LIRIODENDRON TULIPIFERA TULIP POPLAR | 50" | 75' | GOOD |
| 41 | QUERCUS PRINUS CHESTNUT OAK | 34" | 51' | GOOD |
| 42 | QUERCUS PRINUS CHESTNUT OAK | 32" | 48' | GOOD |
| 43 | QUERCUS PRINUS CHESTNUT OAK | 39" | 58.5' | GOOD |
| 44 | QUERCUS PRINUS CHESTNUT OAK | 30" | 45' | GOOD |
| 45 | QUERCUS PRINUS CHESTNUT OAK | 30" | 45' | GOOD |

| KEY | BOTANICAL NAME COMMON NAME | SIZE (dbh) | CRZ (radius) | CONDITION |
|-----|---|------------|--------------|---------------------|
| 46 | QUERCUS ALBA WHITE OAK | 30" | 45' | GOOD |
| 47 | QUERCUS ALBA WHITE OAK | 32" | 48' | GOOD |
| 48 | QUERCUS RUBRA NORTHERN RED OAK | 37" | 55.5' | GOOD |
| 49 | QUERCUS ALBA WHITE OAK | 33" | 49.5' | GOOD |
| 50 | LIRIODENDRON TULIPIFERA TULIP POPLAR | 32" | 48' | GOOD |
| 51 | LIRIODENDRON TULIPIFERA TULIP POPLAR | 32" | 48' | GOOD |
| 52 | FAGUS GRANDIFOLIA AMERICAN BEECH | 35" | 52.5' | GOOD |
| 53 | QUERCUS ALBA WHITE OAK | 30" | 45' | GOOD |
| 54 | QUERCUS ALBA WHITE OAK | 30" | 45' | GOOD |
| 55 | QUERCUS ALBA WHITE OAK | 39" | 58.5' | GOOD |
| 56 | QUERCUS ALBA WHITE OAK | 30" | 45' | GOOD |
| 57 | LIRIODENDRON TULIPIFERA TULIP POPLAR | 34" | 51' | GOOD |
| 58 | QUERCUS ALBA WHITE OAK | 34" | 51' | GOOD |
| 59 | LIRIODENDRON TULIPIFERA TULIP POPLAR | 34" | 51' | GOOD |
| 60 | QUERCUS PRINUS CHESTNUT OAK | 38" | 57' | GOOD |
| 61 | QUERCUS ALBA WHITE OAK | 30" | 45' | GOOD |
| 62 | QUERCUS ALBA WHITE OAK | 35" | 52.5' | GOOD |
| 63 | FAGUS GRANDIFOLIA AMERICAN BEECH | 31" | 46.5' | GOOD |
| 64 | QUERCUS PRINUS CHESTNUT OAK | 42" | 63' | GOOD TWIN TRUNKS |
| 65 | LIRIODENDRON TULIPIFERA TULIP POPLAR | 34" | 51' | GOOD |
| 66 | LIRIODENDRON TULIPIFERA TULIP POPLAR | 32" | 48' | GOOD |
| 67 | QUERCUS RUBRA NORTHERN RED OAK | 34" | 51' | GOOD |
| 68 | LIRIODENDRON TULIPIFERA TULIP POPLAR | 34" | 51' | GOOD |
| 69 | QUERCUS ALBA WHITE OAK | 35" | 52.5' | GOOD |
| 70 | ACER RUBRUM RED MAPLE | 39" | 58.5' | GOOD |
| 71 | ACER RUBRUM RED MAPLE | 31" | 46.5' | GOOD |
| 72 | QUERCUS PALUSTRIS PIN OAK | 37" | 55.5' | GOOD |
| 73 | ACER RUBRUM RED MAPLE | 35" | 52.5' | GOOD |
| 74 | QUERCUS PALUSTRIS PIN OAK | 30" | 45' | GOOD |
| 75 | ACER RUBRUM RED MAPLE | 30" | 45' | GOOD |
| 76 | QUERCUS PALUSTRIS PIN OAK | 35" | 52.5' | GOOD |
| 77 | QUERCUS PALUSTRIS PIN OAK | 43" | 64.5' | POOR TRUNK DECAY |
| 78 | FAGUS GRANDIFOLIA AMERICAN BEECH | 36" | 54' | GOOD |
| 79 | FRAXINUS PENNSYLVANICA GREEN ASH | 43" | 64.5' | GOOD |
| 80 | ACER NEGUNDO BOX ELDER | 39" | 58.5' | POOR IVY COVERED |
| 81 | ACER NEGUNDO BOX ELDER | 35" | 52.5' | POOR IVY COVERED |
| 82 | ACER NEGUNDO BOX ELDER | 31" | 46.5' | POOR |
| 83 | JUGLANS NIGRA BLACK WALNUT | 31" | 46.5' | FAIR |
| 84 | PINUS STROBUS EASTERN WHITE PINE | 30" | 45' | GOOD |
| 85 | ACER RUBRUM RED MAPLE | 60" | 90' | GOOD |
| 86 | FAGUS GRANDIFOLIA AMERICAN BEECH | 39" | 58.5' | GOOD |
| 87 | QUERCUS ALBA WHITE OAK | 38" | 57' | GOOD |
| 88 | QUERCUS ALBA WHITE OAK | 45" | 61.5' | GOOD |
| 89 | FAGUS GRANDIFOLIA AMERICAN BEECH | 30" | 45' | GOOD |
| 90 | QUERCUS RUBRA NORTHERN RED OAK | 41" | 61.5' | GOOD |

| KEY | BOTANICAL NAME COMMON NAME | SIZE (dbh) | CRZ (radius) | CONDITION |
|-----|---|------------|--------------|-----------------------|
| 91 | QUERCUS ALBA WHITE OAK | 33" | 49.5' | GOOD |
| 92 | LIQUIDAMBAR STYRACIFLUA SWEET GUM | 30" | 45' | GOOD |
| 93 | QUERCUS RUBRA NORTHERN RED OAK | 46" | 69' | FAIR |
| 94 | FAGUS GRANDIFOLIA AMERICAN BEECH | 30" | 45' | GOOD TWIN TRUNKS |
| 95 | LIQUIDAMBAR STYRACIFLUA SWEET GUM | 31" | 46.5' | GOOD |
| 96 | QUERCUS ALBA WHITE OAK | 31" | 46.5' | FAIR |
| 97 | QUERCUS ALBA WHITE OAK | 32" | 48' | FAIR |
| 98 | QUERCUS ALBA WHITE OAK | 42" | 63' | FAIR |
| 99 | FAGUS GRANDIFOLIA AMERICAN BEECH | 31" | 46.5' | GOOD |
| 100 | FAGUS GRANDIFOLIA AMERICAN BEECH | 34" | 51' | GOOD |
| 101 | QUERCUS ALBA WHITE OAK | 34" | 51' | GOOD |
| 102 | FAGUS GRANDIFOLIA AMERICAN BEECH | 36" | 54' | GOOD |
| 103 | QUERCUS ALBA WHITE OAK | 32" | 48' | GOOD |
| 104 | FRAXINUS PENNSYLVANICA GREEN ASH | 38" | 57' | POOR |
| 105 | FAGUS GRANDIFOLIA AMERICAN BEECH | 35" | 52.5' | GOOD |
| 106 | QUERCUS RUBRA NORTHERN RED OAK | 32" | 48' | GOOD |
| 107 | LIRIODENDRON TULIPIFERA TULIP POPLAR | 30" | 45' | GOOD |
| 108 | QUERCUS RUBRA NORTHERN RED OAK | 34" | 51' | GOOD |
| 109 | LIRIODENDRON TULIPIFERA TULIP POPLAR | 42" | 63' | GOOD TWIN TRUNKS |
| 110 | LIRIODENDRON TULIPIFERA TULIP POPLAR | 38" | 57' | POOR |
| 111 | LIRIODENDRON TULIPIFERA TULIP POPLAR | 35" | 52.5' | GOOD TWIN TRUNKS |
| 112 | QUERCUS ALBA WHITE OAK | 30" | 45' | FAIR TWIN TRUNKS |
| 113 | QUERCUS ALBA WHITE OAK | 48" | 72' | FAIR TRIPLE TRUNKS |
| 114 | LIRIODENDRON TULIPIFERA TULIP POPLAR | 31" | 46.5' | GOOD |
| 115 | LIRIODENDRON TULIPIFERA TULIP POPLAR | 43" | 64.5' | FAIR TRIPLE TRUNKS |
| 116 | LIRIODENDRON TULIPIFERA TULIP POPLAR | 32" | 48' | GOOD TWIN TRUNKS |
| 117 | LIRIODENDRON TULIPIFERA TULIP POPLAR | 33" | 49.5' | FAIR |
| 118 | LIRIODENDRON TULIPIFERA TULIP POPLAR | 34" | 51' | GOOD |
| 119 | LIRIODENDRON TULIPIFERA TULIP POPLAR | 30" | 45' | GOOD |
| 120 | LIRIODENDRON TULIPIFERA TULIP POPLAR | 31" | 46.5' | GOOD |
| 121 | LIRIODENDRON TULIPIFERA TULIP POPLAR | 38" | 57' | GOOD TWIN TRUNKS |
| 122 | QUERCUS RUBRA NORTHERN RED OAK | 34" | 51' | GOOD |
| 123 | QUERCUS RUBRA NORTHERN RED OAK | 35" | 52.5' | GOOD |
| 124 | FAGUS GRANDIFOLIA AMERICAN BEECH | 33" | 49.5' | GOOD |
| 125 | LIRIODENDRON TULIPIFERA TULIP POPLAR | 37" | 55.5' | POOR |
| 126 | LIRIODENDRON TULIPIFERA TULIP POPLAR | 38" | 57' | GOOD |
| 127 | QUERCUS RUBRA NORTHERN RED OAK | 37" | 55.5' | GOOD |
| 128 | FAGUS GRANDIFOLIA AMERICAN BEECH | 34" | 51' | GOOD |
| 129 | QUERCUS PALUSTRIS PIN OAK | 33" | 49.5' | GOOD |
| 130 | QUERCUS ALBA WHITE OAK | 32" | 48' | GOOD |

NOTE:
TREES CONDITIONS WERE EVALUATED BASED ON THEIR OVERALL HEALTH, THE PRESENCE OF INSECTS OR DISEASE, AND DECAY.
TREES WERE ASSIGNED ONE OF THREE CONDITIONS:
GOOD CONDITION - IF THE TREE HAD MINOR TRUNK DAMAGE, SOME TIP DIEBACK, OR IF IT WAS IN GREAT CONDITION.
FAIR CONDITION - IF THE TREE HAD 50% DEAD BRANCHES OR MAJOR TRUNK DAMAGE.
POOR CONDITION - IF THE TREE HAD SEVERE TRUNK DAMAGE, NUMEROUS DEAD BRANCHES, OR MAJOR DIEBACK.
TREES IDENTIFIED AS BEING OF SPECIMEN-SIZED TREE ARE EITHER A 30" IN DIAMETER AT BREAST HEIGHT OR 70% OF THE DIAMETER OF THE CURRENT STATE CHAMPION TREE OF THAT SPECIES.

FOREST STAND SUMMARY

| KEY | DOMINANT SPECIES/ CODOMINANT SPECIES | SIZE (ACRES) | CONDITION | CONDITION |
|-----|---|--------------|-----------|------------------------------------|
| F-1 | MIXED OAK / BEECH | 5.72 | GOOD | STEEP SLOPES ADJACENT TO STREAM |
| F-2 | RED MAPLE / RIVER BIRCH - BLACK GUM | 22.84 | GOOD | |
| F-3 | TREE OF HEAVEN / BOXELDER | 1.05 | GOOD | |
| F-4 | WHITE OAK / BEECH | 2.09 | GOOD | |
| F-5 | WHITE OAK / PEAR | 1.04 | GOOD | |
| F-6 | WHITE OAK / BEECH - SWEET GUM | 2.52 | GOOD | |
| F-7 | TULIP POPLAR - OAK / BLACK GUM - HICKORY | 20.94 | GOOD | |

PRELIMINARY FOREST CONSERVATION WORKSHEET

NET TRACT AREA:
A. TOTAL TRACT AREA A=857.00
B. DEDUCTIONS (AREA TO REMAIN IN AGRICULTURAL USE) B=681.00
C. NET TRACT AREA (A - B = C) C=176.00

LAND USE CATEGORY: INSTITUTIONAL DEVELOPMENT AREA
D. AFFORESTATION THRESHOLD (NET TRACT AREA (C) X 15%) D=26.40
E. CONSERVATION THRESHOLD (NET TRACT AREA (C) X 20%) E=35.20

EXISTING FOREST COVER:
F. EXISTING FOREST COVER WITHIN THE NET TRACT AREA F=56.20
G. AREA OF FOREST ABOVE CONSERVATION THRESHOLD G=21.00
IF THE EXISTING FOREST COVER (F) IS GREATER THAN THE CONSERVATION THRESHOLD (E), THEN G = F - E ; OTHERWISE G = 0

BREAK-EVEN POINT:
H. BREAK-EVEN POINT (THE AMOUNT OF FOREST THAT MUST BE RETAINED SO THAT NO MITIGATION IS REQUIRED) H=39.40
(1) IF THE AREA OF FOREST ABOVE THE CONSERVATION THRESHOLD (G) IS GREATER THAN 0.00, THEN H = 10.2 X THE AREA OF FOREST ABOVE THE CONSERVATION THRESHOLD (G) + THE CONSERVATION THRESHOLD (E)
(2) IF THE AREA OF FOREST ABOVE THE CONSERVATION THRESHOLD (G) IS EQUAL TO 0.00, THEN H = EXISTING FOREST COVER (F)

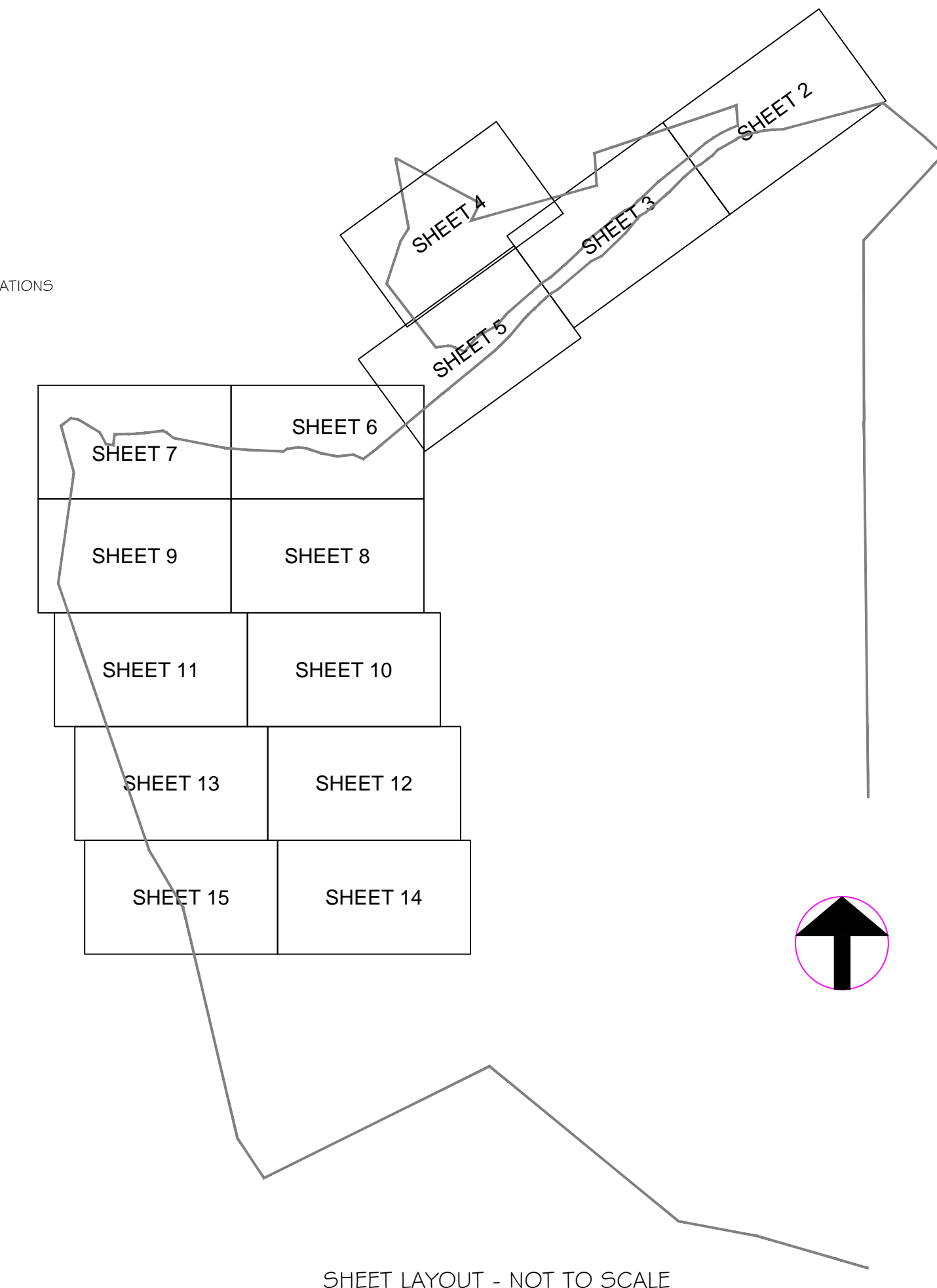
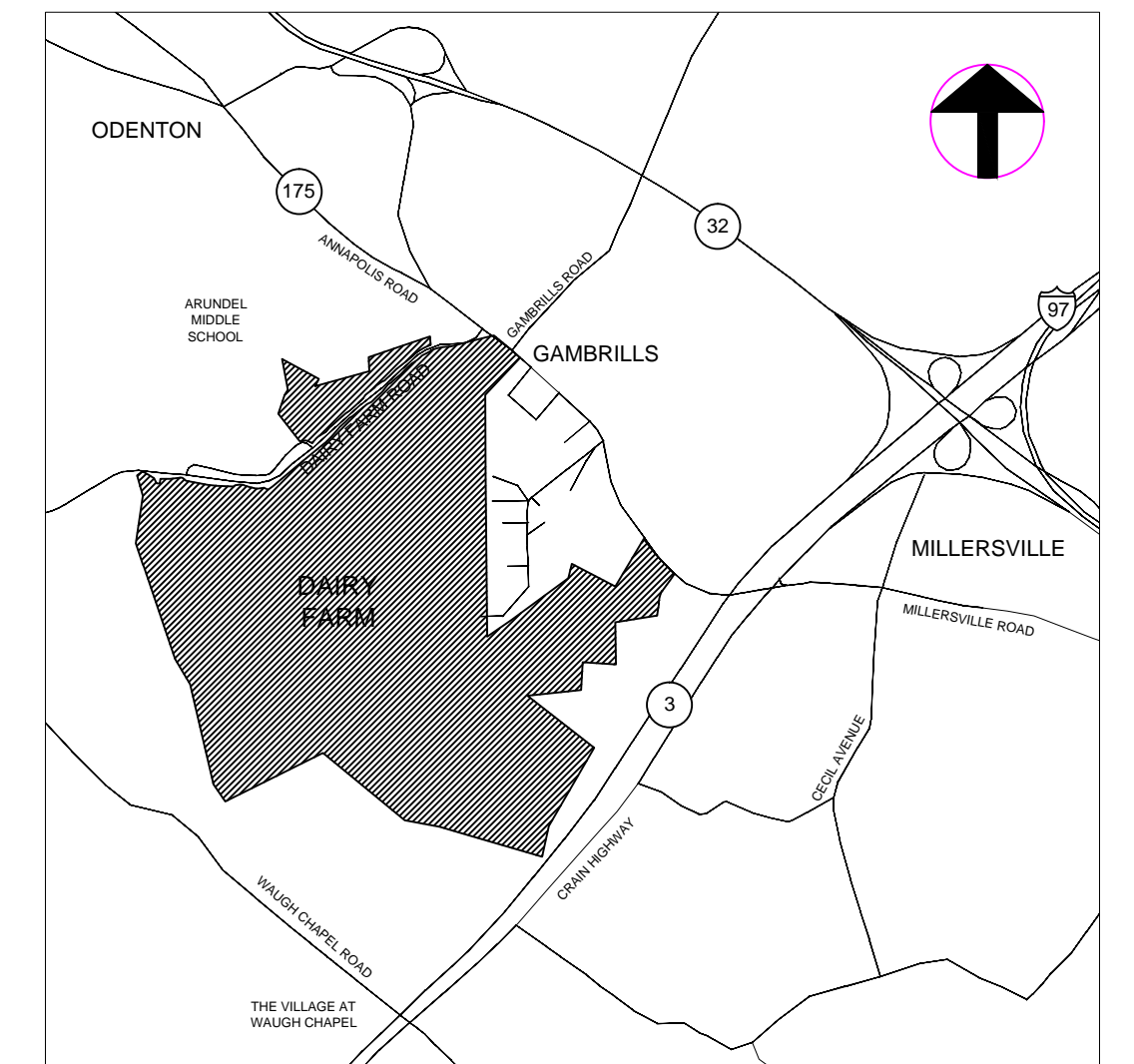
I. FOREST CLEARING PERMITTED WITHOUT MITIGATION I = EXISTING FOREST COVER (F) - BREAK-EVEN POINT (H) I=16.80

PROPOSED FOREST CLEARING & RETENTION:
J. TOTAL AREA OF FOREST TO BE CLEARED (ALL FOREST AREA NOT PROTECTED BY EASEMENT) J=0
K. TOTAL AREA OF FOREST TO BE RETAINED K = EXISTING FOREST COVER (F) - FOREST TO BE CLEARED (J) K=56.20

PLANTING CALCULATIONS:
IF THE TOTAL AREA OF FOREST TO BE RETAINED (K) IS AT OR ABOVE THE BREAK-EVEN POINT (H); NO PLANTING IS REQUIRED, AND NO FURTHER CALCULATIONS ARE NECESSARY; OTHERWISE, PLANTING REQUIREMENT MAY BE REQUIRED.

SOILS LIST

| KEY | SOIL NAME | SLOPE | HYDRIC SOIL | K FACTOR | STEEP ERODIBLE SOIL | HYDROLOGICAL SOIL GROUP |
|-----|--|--------|-------------|-------------|---------------------|-------------------------|
| DxB | DOWNER - PHALANX COMPLEX | 2-5% | NO | 0.32 / 0.20 | NO | B |
| DxC | DOWNER - PHALANX COMPLEX | 5-10% | NO | 0.17 / 0.20 | NO | B |
| DxD | DOWNER - PHALANX COMPLEX | 10-15% | NO | 0.32 / 0.20 | NO | B |
| MmA | MATAPEAKE SILT LOAM | 0-2% | NO | 0.43 | NO | B |
| MRD | MATAPEAKE AND MATTAPEX COMPLEX | 10-15% | NO | 0.43 / 0.43 | YES | C |
| MxB | MATTAPEX - BUTLERTOWN COMPLEX | 2-5% | NO | 0.43 / 0.49 | NO | C |
| MxC | MATTAPEX - BUTLERTOWN COMPLEX | 5-10% | NO | 0.43 / 0.49 | NO | C |
| MyB | MATTAPEX - BUTLERTOWN - URBAN LAND COMPLEX | 0-5% | NO | 0.43 / 0.49 | NO | C |
| ShA | SASSAFRAS - HAMBROOK COMPLEX | 0-2% | NO | 0.28 / 0.28 | NO | B |
| SME | SASSAFRAS AND CROOM SOILS | 15-25% | NO | 0.24 / 0.28 | NO | B |
| WgA | WOODSTOWN SANDY LOAM | 0-2% | NO | 0.24 | NO | C |
| ZBA | ZENIAH AND ISSUE SOILS | 0-2% | YES | 0.37 / 0.37 | NO | C |



LEGEND

- PROPERTY LINE
- PARK PROJECT BOUNDARY
- EASEMENT LINE
- x --- x --- FENCE LINE
- 142 --- CONTOUR
- SLOPES 15 TO 25%
- SLOPES >25%
- USE III STREAM
- 88 --- 50' STREAM BUFFER
- SOILS BOUNDARY
- NON-TIDAL WETLANDS
- 25' WETLANDS BUFFER
- SPECIMEN TREE
- CRITICAL ROOT ZONE
- FSD PLOT LOCATION

NOTE:
- THIS FOREST STAND DELINEATION AND FOREST CONSERVATION WORKSHEET SHOULD BE CONSIDERED PRELIMINARY UNTIL APPROVED BY ALL REVIEWING AGENCIES.
- THE WETLAND DELINEATION AND ASSOCIATED BUFFERS FOR THIS SITE MUST BE REVIEWED AND VERIFIED BY LOCAL, STATE, AND FEDERAL AGENCIES BEFORE THE DELINEATION CAN BE ASSUMED TO BE CORRECT.

- FIELD WORK FOR THIS FOREST STAND DELINEATION AND WETLAND DELINEATION DONE BY HUMAN & ROHDE DURING THE MONTHS OF APRIL AND MAY 2010

APPROVED
DIRECTOR, RECREATION AND PARKS DATE

HUMAN & ROHDE, INC.
Landscape Architects
512 Virginia Ave.
Towson, Maryland 21286
(410) 825-3885

| ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS | | | | BUREAU OF ENGINEERING | |
|---|----|---------------|---------------|-----------------------|--|
| REVISED DATE | BY | APPROVED DATE | APPROVED DATE | SCALE: | HAMMOND'S CONNECTION AT THE DAIRY FARM FOREST STAND DELINEATION PLAN |
| | | | | DRAWN BY: EEV | |
| | | | | CHECKED BY: JCR | |
| | | | | SHEET NO. 1 OF 15 | |
| | | | | PROJECT NO.: | |
| | | | | PROPOSAL NO.: | |