

| SHEET INDEX | |
|-------------|---|
| NO | DESCRIPTION |
| 1 | COVER SHEET |
| 2 | OVERALL PLAN |
| 3 | EXISTING CONDITIONS & FOREST STAND DELINEATION PLAN |
| 4 | FOREST STAND DELINEATION NOTES & TABULATIONS |
| 5 | ENVIRONMENTAL CONCEPT PLAN |
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DESIGN NARRATIVE

PROJECT SCOPE
 THE PURPOSE OF THIS PROJECT IS TO RENOVATE AND EXPAND THE EXISTING ELKRIDGE LIBRARY AND TO ADD A SENIOR CENTER COMPONENT TO THE FACILITY. THE NEW BUILDING WILL BE APPROXIMATELY 45,000 SF AND WILL INCLUDE APPROXIMATELY 175 PARKING SPACES. AS PART OF THE EXPANSION, THE COUNTY WILL ACQUIRE APPROXIMATELY 0.717 ACRES OF LAND FROM VERIZON WHO OWNS THE ADJACENT PROPERTY TO THE WEST. THE CURRENT SITE ACCESS POINTS OFF OF ROWANBERRY DRIVE AND HUNT CLUB ROAD WILL BE MAINTAINED. THE EXISTING SWM FACILITY LOCATED ON THE SITE WILL REMAIN WITH NO PROPOSED MODIFICATIONS OTHER THAN POSSIBLE AESTHETIC CHANGES SUCH AS LANDSCAPING. AS DISCUSSED WITH THE SOIL CONSERVATION DISTRICT THIS FACILITY IS NOT A REGULATED MD-378 POND BASED ON THE ORIGINAL APPROVALS FOR THIS SITE AND DOES NOT NEED TO BE RETROFITTED TO CONFORM TO MD-378 STANDARDS.

NATURAL RESOURCE PROTECTION AND ENHANCEMENT
 EXISTING NATURAL RESOURCES ON THIS PROPERTY INCLUDE AN ISOLATED WETLANDS AREA AND ASSOCIATED BUFFER, AN ISOLATED WOODED AREA, AND SEVERAL SPECIMEN TREES ON OR IMMEDIATELY ADJACENT TO THE PROPERTY. THERE ARE NO STREAMS, FLOODPLAINS, OR COUNTY REGULATED STEEP SLOPES ON THE PROPERTY. THERE ARE SLOPES IN EXCESS OF 25% ON THE PROPERTY, BUT THESE ARE LIMITED GENERALLY TO THE SLOPES AROUND THE EXISTING STORMWATER POND, AND WERE SLOPES THAT WERE CREATED WHEN THE POND WAS BUILT AROUND 1991, UNDER SDP-91-83. EXISTING DRAINAGE PATTERNS HAVE BEEN MAINTAINED. THE EXISTING POND WILL BE RETAINED IN ITS CURRENT CONDITION. ADDITIONAL MICRO SCALE PRACTICES WILL BE IMPLEMENTED TO RECHARGE GROUNDWATER AND PROVIDE WATER QUALITY TREATMENT. EXISTING NATURAL FEATURES HAVE BEEN MAINTAINED TO THE EXTENT POSSIBLE UNDER THE PROGRAM OF DEVELOPMENT. SOME DISTURBANCE TO THE WETLANDS BUFFER AND THE FORESTED AREAS WILL BE REQUIRED TO PROVIDE THE PARKING THAT IS NEEDED TO SERVE THE LIBRARY. RETAINING WALLS HAVE BEEN INCORPORATED TO MINIMIZE THIS DISTURBANCE. TWO SPECIMEN TREES WILL BE REMOVED ON THE VERIZON PROPERTY THAT WILL BE ACQUIRED BY THE COUNTY IN ORDER TO PROVIDE ADDITIONAL PARKING.

MAINTENANCE OF NATURAL FLOW PATTERNS
 NATURAL FLOW PATTERNS ON THIS SITE GENERALLY FLOW FROM WEST TO EAST. MOST OF THIS SITE, PORTIONS OF THE ADJACENT VERIZON SITE, PORTIONS OF US ROUTE 1 AND ROWANBERRY DRIVE, AND PORTIONS OF THE PROPERTIES TO THE NORTH AND WEST OF THIS SITE DRAIN TO THE EXISTING SWM POND LOCATED ON THE SITE. THE POND OUTFALLS INTO A 30' STORM DRAIN UNDER ROWANBERRY DRIVE, AND FLOWS TO A DISCHARGE POINT LOCATED ON THE PROPERTY TO THE EAST. THE NATURAL FLOW PATTERNS, AS WELL AS THE STORMWATER POND WILL BE MAINTAINED. NO MODIFICATIONS TO THE POND ARE PROPOSED. UPSTREAM DRAINAGE WILL BE DIVERTED AROUND THE SITE TO OUTFALL INTO THE POND.

REDUCTION OF IMPERVIOUS AREAS
 THIS SITE QUALIFIES AS A REDEVELOPMENT SITE BASED ON THE EXISTING IMPERVIOUS AREA. NEW IMPERVIOUS AREAS WILL BE REDUCED THROUGH THE REUSE OF THE EXISTING BUILDING, AND THE IMPLEMENTATION OF PERVIOUS PAVEMENT AREAS.

INTEGRATION OF SEDIMENT CONTROL FEATURES
 SEDIMENT CONTROLS FOR THIS SITE WILL BE PROVIDED BY CLEAR WATER DIVERSION DIKES, STABILIZED CONSTRUCTION ENTRANCE, SUPER SILT FENCE, A SEDIMENT TRAP, AND OTHER DEVICES AS NEEDED BASED ON FINAL DESIGN. A STOCKPILE AREA WILL BE PROVIDED. FINAL SEDIMENT CONTROL DESIGN WILL INCLUDE A DETAILED SEQUENCE OF CONSTRUCTION TO MINIMIZE IMPACTS TO ENVIRONMENTALLY SENSITIVE AREAS AND TO REQUIRE THE INSTALLATION OF THE MICROSCALE STORMWATER PRACTICES IN SEQUENCE WITH THE OTHER CONSTRUCTION OPERATIONS ON SITE TO ENSURE PROPER FUNCTIONALITY. SEDIMENT CONTROL DESIGN WILL ALSO ENSURE THAT CLEAN WATER IS DIVERTED AROUND THE CONSTRUCTION AREAS TO THE POND AND WILL ENSURE THAT WATER DISCHARGED INTO THE POND IS CLEAN.

IMPLEMENTATION OF ESD PLANNING TECHNIQUES AND PRACTICES
 THIS PROJECT IS A REDEVELOPMENT PROJECT, AND DOES NOT INVOLVE ANY MODIFICATIONS TO THE POND. ESDV FOR THIS PROJECT IS PROVIDED THROUGH THE USE OF ALTERNATIVE SURFACES (PERVIOUS PAVEMENT - A-2) AND MICRO BIORETENTION AREAS (M-6). SOIL TESTING WILL BE REQUIRED FOR THE PERVIOUS PAVEMENT AREAS BASED ON THE SOIL CLASSIFICATIONS ON SITE.

GENERAL NOTES

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUS MSHA STANDARDS AND SPECIFICATIONS, IF APPLICABLE.
- THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE.
- ALL PLAN DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
- THE EXISTING TOPOGRAPHY IS PROVIDED BY PENNONI ASSOCIATES, INC., DATED JUNE 25, 2015, VIRGINIA RESOURCE MAPPING DATED JULY 5, 2014, AND HAS BEEN SUPPLEMENTED BY HOWARD COUNTY GIS INFORMATION.
- THE BOUNDARY SURVEY IS PROVIDED BY PENNONI ASSOCIATES, INC., DATED JUNE 25, 2015 AND HAS BEEN SUPPLEMENTED BY COUNTY GIS INFORMATION.
- THE COORDINATES SHOWN HEREON ARE IN MARYLAND COORDINATE SYSTEM NAD 83/91 BASED ON THE HOWARD COUNTY GEODETIC CONTROL. HOWARD COUNTY MONUMENT NOS. 0043 AND 38D8 WERE USED FOR THIS PROJECT.
- WATER IS PUBLIC, CONTRACT W34738C.
- SEWER IS PUBLIC, CONTRACT 348-S.
- APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN. THE

- CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE. EXISTING UTILITIES ARE SHOWN BASED ON THE BEST AVAILABLE INFORMATION.
- A 100-YEAR FLOODPLAIN STUDY FOR THIS PROJECT IS NOT REQUIRED. THERE IS NO FLOODPLAIN PRESENT ON THE PROPERTY.
- A WETLAND REPORT FOR THIS PROPERTY WAS COMPLETED BY BRAY HILL, LLC DATED NOVEMBER 2014. ACCORDING TO THIS WETLAND REPORT, WETLANDS EXIST ON THE PROPERTY.
- SUBJECT PROPERTY ZONED B-1 AND R-12 PER THE OCTOBER 6, 2013 COMPREHENSIVE ZONING PLAN.
- ALL ELEVATIONS SHOWN ARE BASED NAVD88.
- CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES, AND SAFETY PRECAUTIONS AND PROGRAMS.
- ALL LIGHTING IS TO BE DIRECTED/REFLECTED AWAY FROM ADJACENT PUBLIC ROADS AND RESIDENTIALLY ZONED PROPERTIES, AND BE IN ACCORDANCE WITH SECTION 134 OF THE HOWARD COUNTY ZONING REGULATIONS.

ENVIRONMENTAL CONCEPT PLAN

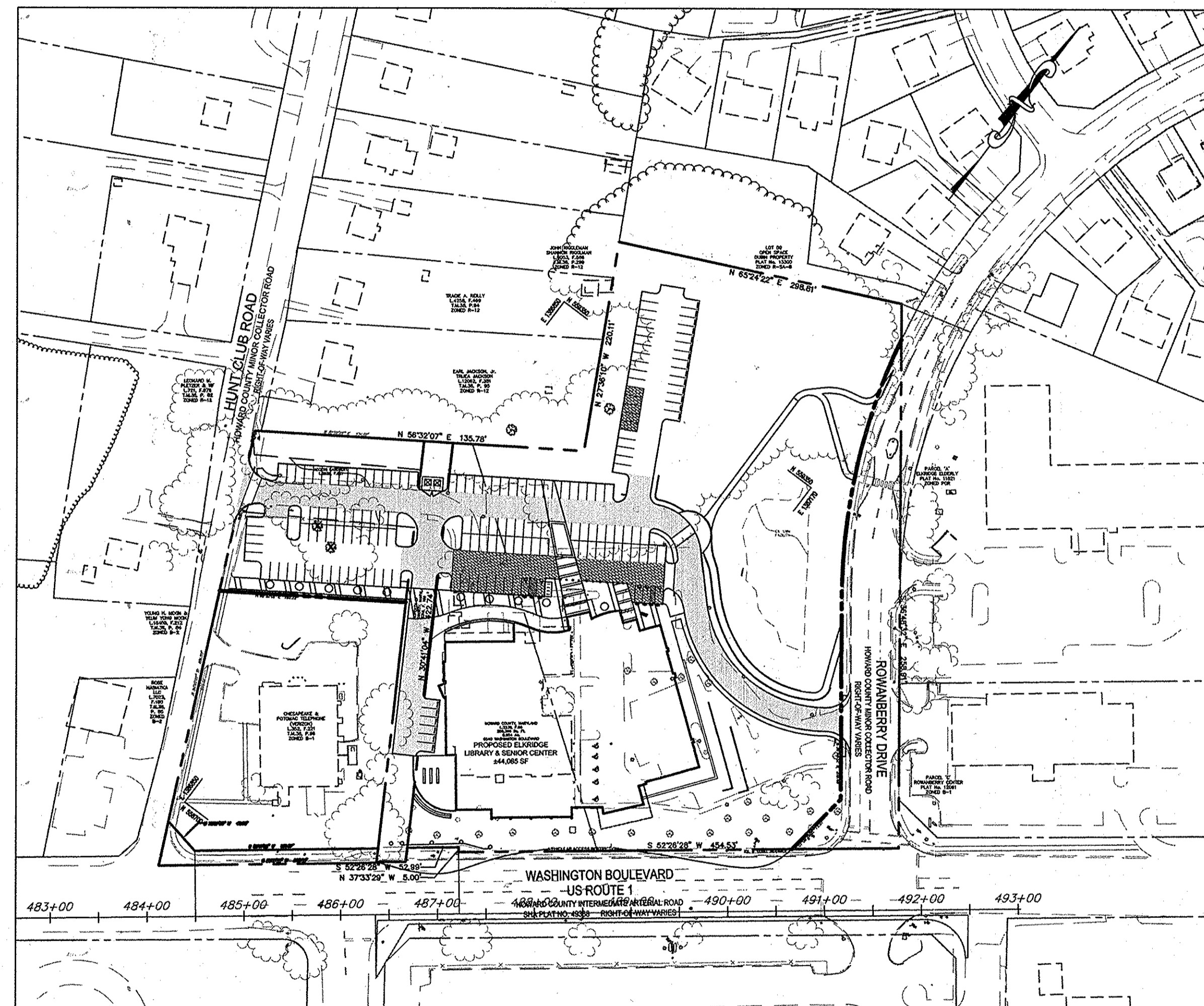
HCLS ELKRIDGE BRANCH AND 50+ CENTER

6540 WASHINGTON BOULEVARD

PARCELS 97 & 478

1ST ELECTION DISTRICT

HOWARD COUNTY, MARYLAND



LOCATION PLAN

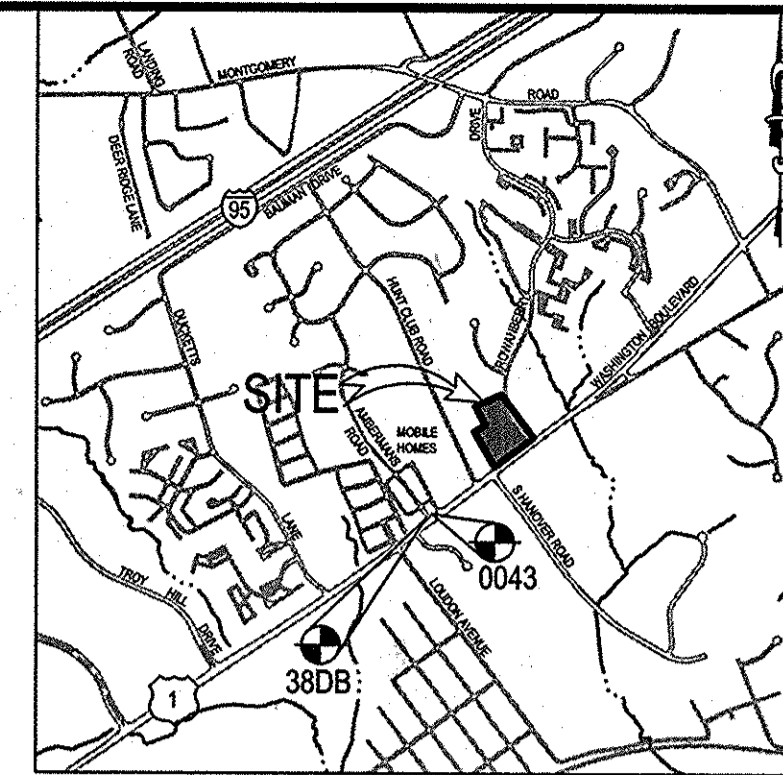
SCALE: 1" = 100'

- AN EXISTING LIBRARY BUILDING EXISTS ON THE PROPERTY.
- BASED ON AVAILABLE COUNTY MAPS AND RECORDS, THERE ARE NO HISTORIC STRUCTURES OR KNOWN CEMETERIES LOCATED ON THE SUBJECT PROPERTY.
- A FOREST STAND DELINEATION FOR THIS PROPERTY WAS COMPLETED BY PENNONI ASSOCIATES, INC. DATED SEPTEMBER 3, 2015.
- FOUR (4) SPECIMEN TREES EXIST ON SITE. SEE SPECIMEN TREE CHART WITHIN THIS PLAN SET.
- APPLICABLE DPZ FILE REFERENCES: SDP-91-083
- APPROVAL OF THIS ECP DOES NOT CONSTITUTE APPROVAL OF SUBSEQUENT AND ASSOCIATED SUBDIVISION PLANS, SITE DEVELOPMENT PLANS OR RED-LINE REVISIONS. REVIEW OF THIS PLAN FOR COMPLIANCE WITH THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS AND THE HOWARD COUNTY ZONING REGULATIONS SHALL OCCUR DURING THE SUBDIVISION PLAN, SITE DEVELOPMENT PLAN OR RED-LINE REVISION REVIEW PROCESS. THE APPLICANT AND CONSULTANT SHOULD EXPECT ADDITIONAL AND MORE DETAILED REVIEW COMMENTS (INCLUDING COMMENTS THAT MAY ALTER THE OVERALL SITE DESIGN) AS THIS PROJECT PROGRESSES THROUGH THE PLAN REVIEW PROCESS.

SITE ANALYSIS DATA

| | |
|--|-------------------------|
| AREA OF SITE: | |
| PARCEL 97 | 4.90 ACRES (213,620 SF) |
| PARCEL 478 | 1.05 ACRES (45,747 SF) |
| COUNTY OWNED PAPER STREET | 0.30 ACRES (13,134 SF) |
| P/O PARCEL 96 | 0.71 ACRES (30,842 SF) |
| TOTAL | 6.96 ACRES (303,343 SF) |
| LIMIT OF DISTURBANCE: 4.71 ACRES (205,093 SF) | |
| PRESENT ZONING: B-1 (BUSINESS: LOCAL) R-12 (RESIDENTIAL: SINGLE) | |
| EXISTING USES: LIBRARY, SENIOR CENTER AND PARKING LOT | |
| PROPOSED USES: LIBRARY, SENIOR CENTER AND PARKING LOT | |
| PARKING REQUIRED: 178 SPACES* | |
| PARKING PROPOSED: 175 SPACES | |
| AREA OF WETLANDS: 0.11 ACRES (4,943 SF) | |
| AREA OF FLOODPLAIN: 0.00 ACRES (0.00 SF) | |
| FOREST AREA: 1.71 ACRES (74,515 SF) | |
| AREA OF FOREST WITHIN LOD: 0.98 ACRES (42,728 SF) | |
| AREA OF STEEP SLOPES: 15%-25%: ±0.26 ACRES (±11,204 SF) 25%+: ±0.46 ACRES (±20,078 SF) | |
| AREA OF ERODIBLE SOILS: ±0.00 ACRES (±0 SF) | |
| IMPERVIOUS AREA: EXISTING: ±108,121 SF PROPOSED: ±158,908 SF | |
| ZONE B-1 SETBACKS: PUBLIC RIGHT-OF-WAY: 30 FEET RESIDENTIAL DISTRICTS: 30 FEET MAX. BUILDING HEIGHT: 40 FEET PARKING SETBACK: 10 FEET | |
| ZONE R-12 SETBACKS: FRONT: 20 FEET SIDE: 20 FEET REAR: 30 FEET USE SETBACK: 20 FEET | |

*A PARKING ANALYSIS WILL BE PERFORMED AT THE TIME OF SITE DEVELOPMENT PLAN.



VICINITY MAP

SCALE: 1"=2,000'
 HOWARD COUNTY
 ADC MAP NO. 35 GRIDS C-3 & D-3
 ADC MAP USE LICENSE #3652

BENCHMARKS

HOWARD COUNTY SURVEY CONTROL: 0043
 ELEVATION 189.461'
 N 558,479.001 E 1,386,642.122
 LOCATION IS 14.8' FROM THE CENTERLINE OF AMBERMANS ROAD AND 7.8' FROM THE SIDEWALK ALONG ROUTE 1.
 HOWARD COUNTY SURVEY CONTROL: 38D8
 ELEVATION 192.132'
 N 558,427.282 E 1,386,582.476
 LOCATION 46.8' SOUTH OF BGE POLE #235170 AND 3.5' FROM THE SIDEWALK ALONG ROUTE 1.

APPROVED: DEPARTMENT OF PLANNING AND ZONING

[Signature] 2-4-16
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
[Signature] 2-01-16
 CHIEF, DIVISION OF LAND DEVELOPMENT

| DATE | NO. | REVISION | BY |
|-----------|-----|--|----|
| | | | |
| DEVELOPER | | HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS BUREAU OF FACILITIES 9250 BENDIX ROAD COLUMBIA, MARYLAND 21045 ATTN: MARK STROMDAHL PHONE: 410-313-2700 | |
| OWNER | | HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS BUREAU OF FACILITIES 9250 BENDIX ROAD COLUMBIA, MARYLAND 21045 ATTN: MARK STROMDAHL PHONE: 410-313-2700 | |

PROJECT
 HCLS ELKRIDGE BRANCH AND 50+ CENTER

AREA
 TAX MAP 38, PARCELS 97 & 478 ZONED B-1 & R-12
 GRID NO. 7 1st ELECTION DISTRICT
 6540 WASHINGTON BOULEVARD
 ELKRIDGE, MARYLAND 21043-4300
 HOWARD COUNTY, MARYLAND

TITLE
 COVER SHEET

Pennon! Pennoni Associates Inc.
 Engineers - Surveyors - Planners
 Landscape Architects
 8818 Centre Park Drive, Suite 200 Columbia, MD 21045
 T 410.997.8900 F 410.997.9282

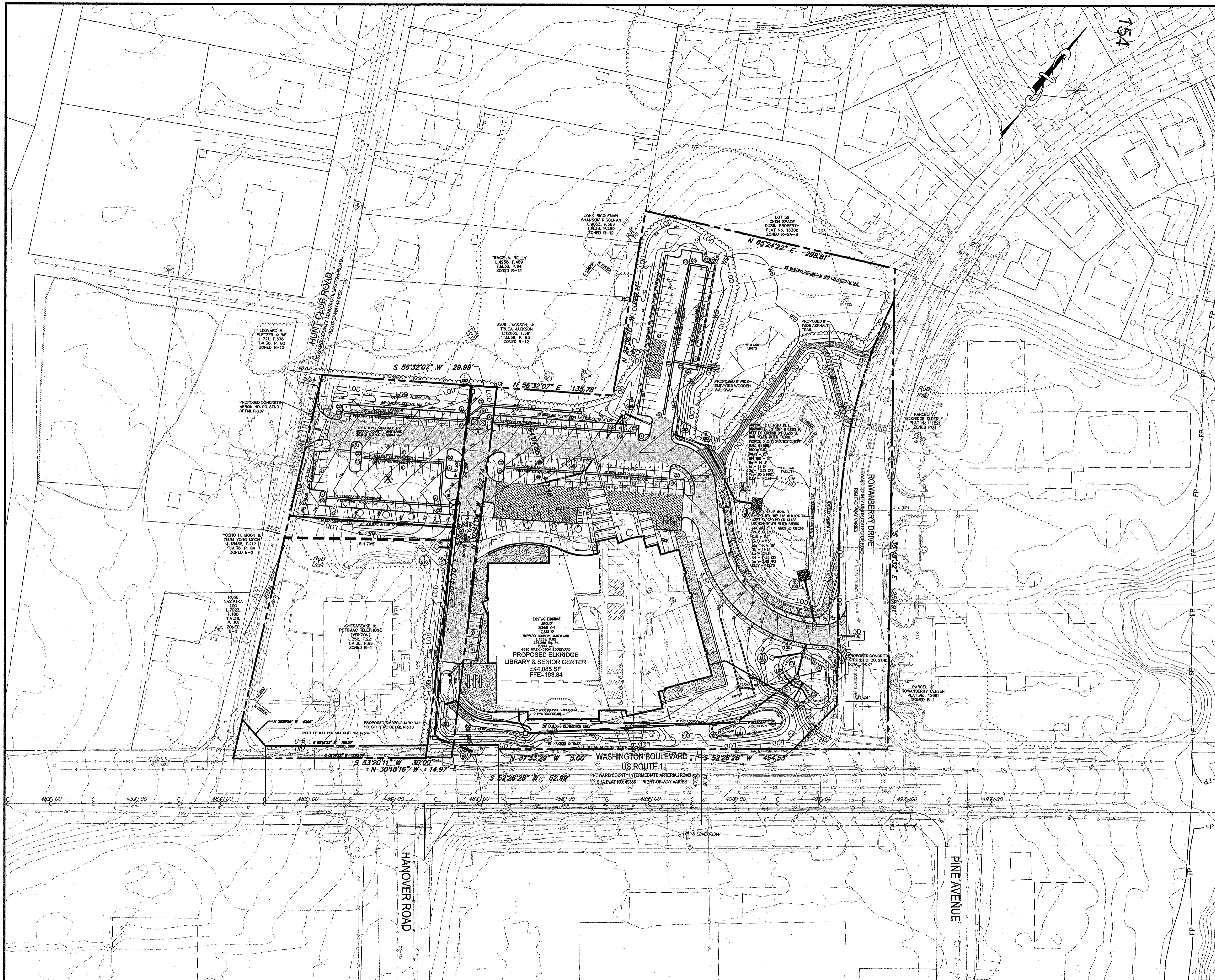
DESIGNED BY: PJS/JSN
 DRAWN BY: JSN
 PROJECT NO.: GRIM1402
 DATE: JANUARY 28, 2016
 SCALE: 1" = 30'
 DRAWING NO. 1 OF 6



| PARCEL NUMBER | STREET ADDRESS |
|---------------|---------------------------|
| 97 | 6540 WASHINGTON BOULEVARD |
| 478 | 6540 WASHINGTON BOULEVARD |

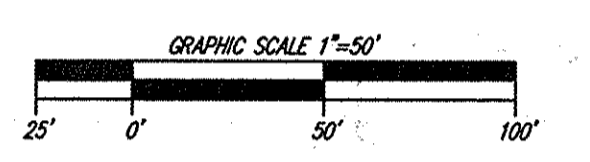
| SUBDIVISION NAME | SECT. | AREA | PARCEL | | |
|------------------|--------|--------|-------------|--------------|--------------|
| | | | 97 & 478 | | |
| PLAT NO. OR L.F. | GRID # | ZONING | TAX MAP NO. | ELECT. DIST. | CENSUS TRACT |
| L. 2239 F. 65 | 7 | B-1 | 38 | 1 | 601201 |

BY: *[Signature]*
 PROFESSIONAL ENGINEER
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 2006-00700009
 DATE: 2-4-2016



LEGEND

| | |
|---------------------------------|--|
| PROPERTY LINE AND RIGHT-OF-WAY | |
| EXISTING BUILDING | |
| EXISTING 1' CONTOUR | |
| EXISTING 5' CONTOUR | |
| EXISTING TREE LINE | |
| EXISTING SOILS | |
| EXISTING WETLANDS | |
| EXISTING WETLAND BUFFER | |
| EXISTING ZONING LINE | |
| EXISTING WATER | |
| EXISTING SEWER | |
| EXISTING COMMUNICATIONS | |
| EXISTING ELECTRICAL | |
| EXISTING GAS | |
| EXISTING STORM DRAIN | |
| PROPOSED 1' CONTOUR | |
| PROPOSED 5' CONTOUR | |
| PROPOSED STORM DRAIN | |
| PROP. CONCRETE SIDEWALK | |
| EX. SPECIMEN TREE TO BE REMOVED | |
| PROPOSED TREE LINE | |



APPROVED: DEPARTMENT OF PLANNING AND ZONING

[Signature] 2-4-16
 CHIEF, DEVELOPMENT ENGINEERING DIVISION JR DATE

[Signature] 2-01-16
 CHIEF, DIVISION OF LAND DEVELOPMENT CP DATE

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

DEVELOPER: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS BUREAU OF FACILITIES 9250 BENDIX ROAD COLUMBIA, MARYLAND 21045 ATTN: MARK STROMDAHL PHONE: 410-313-2700

OWNER: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS BUREAU OF FACILITIES 9250 BENDIX ROAD COLUMBIA, MARYLAND 21045 ATTN: MARK STROMDAHL PHONE: 410-313-2700

PROJECT: HCLS ELKRIDGE BRANCH AND 50+ CENTER

AREA: TAX MAP 38, PARCELS 97 & 478 ZONED B-1 & R-12 GRID NO. 7 1st ELECTION DISTRICT 6540 WASHINGTON BOULEVARD ELKRIDGE, MARYLAND 21043-4300 HOWARD COUNTY, MARYLAND

TITLE: OVERALL PLAN

Pennoni Pennoni Associates Inc. Engineers - Surveyors - Planners Landscape Architects
 8818 Centre Park Drive, Suite 200 Columbia, MD 21045
 T 410.997.8900 F 410.997.9282

SEAL:

DESIGNED BY: PJS/JSN
 DRAWN BY: JSN
 PROJECT NO.: GRIM1402
 DATE: JANUARY 28, 2016
 SCALE: 1" = 50'
 DRAWING NO. 2 OF 6



LEGEND

PROPERTY LINE AND RIGHT-OF-WAY
EXISTING BUILDING

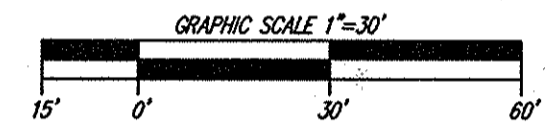
EXISTING 1' CONTOUR
EXISTING 5' CONTOUR
EXISTING TREE LINE
EXISTING SOILS
EXISTING WETLANDS
EXISTING WETLAND BUFFER
EXISTING ZONING LINE
EXISTING WATER
EXISTING SEWER
EXISTING COMMUNICATIONS
EXISTING ELECTRICAL
EXISTING GAS

EXISTING 15%-24.9% SLOPES
EXISTING 25%+ SLOPES
FOREST SAMPLE POINT

PLANT COMMUNITY

SPECIMEN TREE

CRITICAL ROOT ZONE



APPROVED: DEPARTMENT OF PLANNING AND ZONING

John P. ... 2-4-16
CHIEF, DEVELOPMENT ENGINEERING DIVISION JR DATE

W. ... 2-01-16
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

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

DEVELOPER: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS BUREAU OF FACILITIES 9250 BENDIX ROAD COLUMBIA, MARYLAND 21045 ATTN: MARK STROMDAHL PHONE: 410-313-2700

OWNER: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS BUREAU OF FACILITIES 9250 BENDIX ROAD COLUMBIA, MARYLAND 21045 ATTN: MARK STROMDAHL PHONE: 410-313-2700

PROJECT: HCLS ELKRIDGE BRANCH AND 50+ CENTER

AREA: TAX MAP 38, PARCELS 97 & 478 ZONED B-1 & R-12 GRID NO. 7, 1st ELECTION DISTRICT 6540 WASHINGTON BOULEVARD ELKRIDGE, MARYLAND 21043-4300 HOWARD COUNTY, MARYLAND

TITLE: EXISTING CONDITIONS & FOREST STAND DELINEATION PLAN

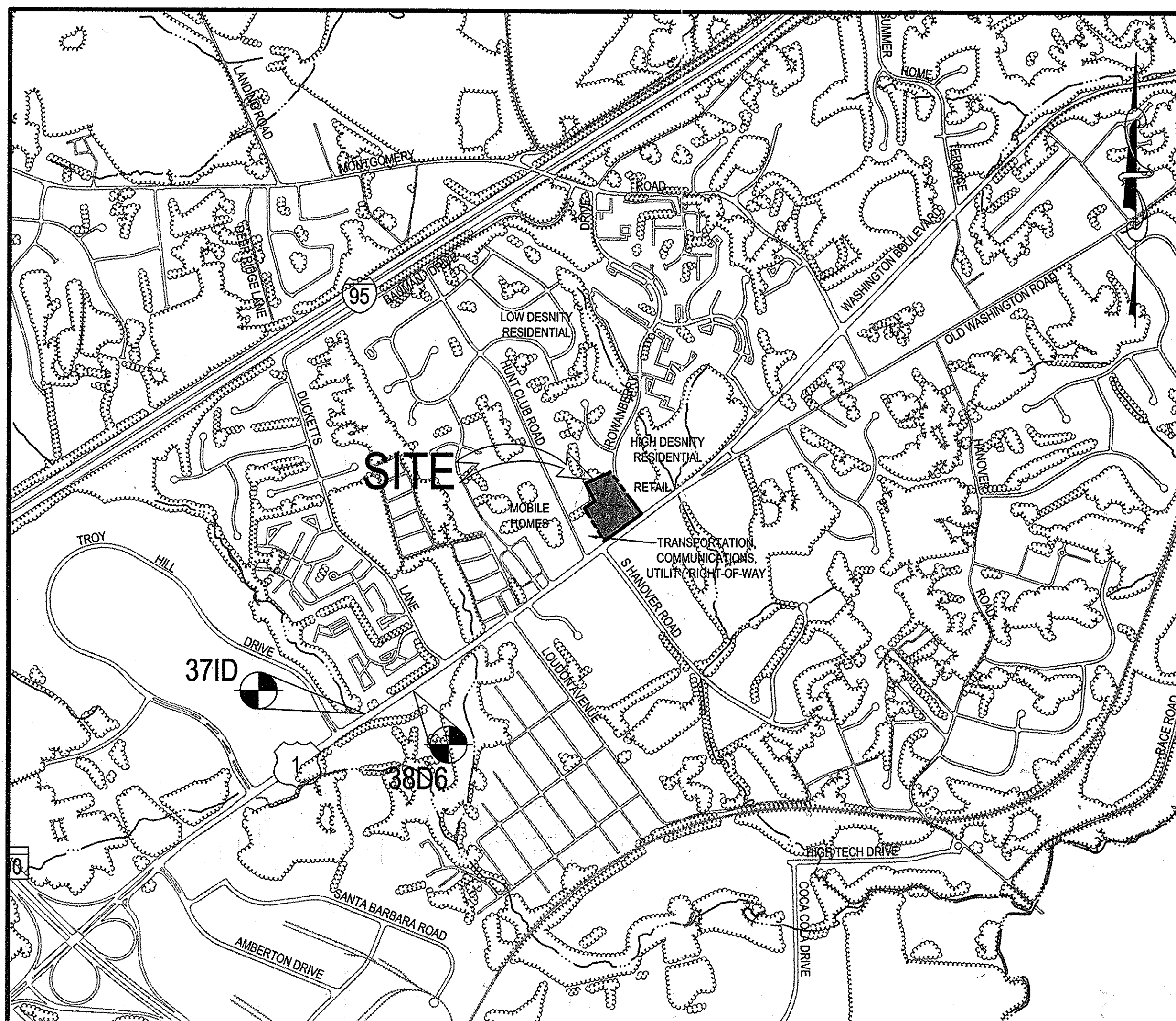
Pennoni Associates Inc.
Engineers • Surveyors • Planners
Landscape Architects

8818 Centre Park Drive, Suite 200 Columbia, MD 21045
T 410.997.8900 F 410.997.9282

1-28-2016 DATE

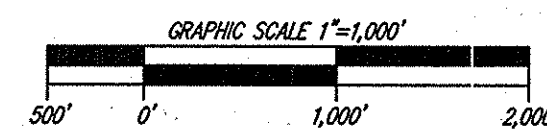
DESIGNED BY: PJS/JSN
DRAWN BY: JSN
PROJECT NO: GRIM1402
DATE: JANUARY 28, 2016
SCALE: 1" = 30'
DRAWING NO. 3 OF 6

PETER J. STONE #3068



VICINITY MAP

SCALE: 1"=1000'
 COPYRIGHT ADC THE MAP PEOPLE
 ADC MAP 4937 GRID C9
 PERMITTED USE NO. 3682



PLANT COMMUNITY SUMMARY TABLE

| SYMBOL | COMMUNITY | AREA | PRIORITY RETENTION |
|--------|-----------|-----------|--------------------|
| F1 | FOREST | 1.71 Ac.± | HIGH |

AREA TABLE

| AREA | ACRES |
|--|-------|
| TOTAL TRACT AREA | 6.96 |
| EXISTING FOREST | 1.71 |
| LAND WITHIN STREAM BUFFERS | 0.00 |
| LAND WITHIN WETLANDS & WETLAND BUFFERS | 0.42 |
| LAND WITHIN FLOODPLAIN | 0.00 |
| FOREST WITHIN STREAM BUFFERS | 0.00 |
| FOREST WITHIN WETLANDS & WETLAND BUFFERS | 0.41 |
| FOREST WITHIN FLOODPLAIN | 0.00 |

SOILS TABLE

| MAP SYMBOL | NAME | STRUCTURAL LIMITATIONS DWELLINGS WITH BASEMENTS | EROSION HAZARD | HYDRIC | SLOPE (%) | SOIL GROUP | K FACTOR |
|------------|---------------------------------------|---|----------------|--------|-----------|------------|----------|
| Fa | FALLSINGTON SANDY LOAM | VERY LIMITED | LOW | YES | 0-2% | C/D | 0.02 |
| RuB | RUSSETT AND BELTSVILLE SOILS | VERY LIMITED | MODERATE | NO | 2-5% | C | 0.37 |
| UcB | URBAN LAND-CHILLUM-BELTSVILLE COMPLEX | NOT RATED | LOW | NO | 0-5% | C | 0.37 |
| UID | URBAN LAND-UDORTHENTS COMPLEX | NOT RATED | MODERATE | NO | 0-15% | D | - |

SOURCE: NATURAL RESOURCES CONSERVATION SERVICE WEB SOIL SURVEY, HOWARD SOIL CONSERVATION DISTRICT SOIL MAP NUMBER 20.

SPECIMEN TREE TABLE

| KEY | SPECIES | SIZE | CONDITION | REMAIN/REMOVE |
|-----|--|------|-----------|---------------|
| 1 | White Oak (Quercus alba) | 40" | GOOD | REMAIN |
| 2 | White Oak (Quercus alba) | 42" | GOOD | REMAIN |
| 3 | Green Ash (Fraxinus pennsylvanica) | 30" | POOR | REMOVE |
| 4 | Tulip Poplar (Liriodendron tulipifera) | 31" | GOOD | REMOVE |

GENERAL NOTES:

- THE SITE IS LOCATED AT 6540 WASHINGTON BOULEVARD, ELKRIDGE, MD 21043-4300 (TAX MAP 38, PARCEL 97, PARCEL 478, P/O PARCEL 96, AND A COUNTY OWNED PAPER STREET). THE SITE IS 6.96 ACRES.
- BOUNDARY INFORMATION HAS BEEN PROVIDED BY PENNONI ASSOCIATES INC DATED JULY 2014. TOPOGRAPHY INFORMATION PROVIDED BY AVAILABLE HOWARD COUNTY RECORDS AND AN AERIAL SURVEY PREPARED BY VIRGINIA RESOURCE MAPPING INC. DATED JULY 2014.
- THE FOLLOWING SOILS ARE PRESENT ON THE SITE: FALLSINGTON SANDY LOAM (0-2% SLOPES)-Fa, RUSSETT AND BELTSVILLE SOILS (2-5% SLOPES)-RuB, URBAN LAND-CHILLUM-BELTSVILLE COMPLEX (0-5% SLOPES)-UcB, AND URBAN LAND-UDORTHENTS COMPLEX (0-15% SLOPES)-UIB ACCORDING TO THE NATURAL RESOURCES CONSERVATION SERVICE WEB SOIL SURVEY.
- THE SITE IS ZONED B-1 (BUSINESS: LOCAL). CURRENTLY, THE PROPERTY CONTAINS A PUBLIC LIBRARY.
- THIS SITE IS LOCATED IN THE PATAPSCO RIVER LOWER NORTH BRANCH (MDDNR LISTING #2130906) WATERSHED WHICH IS A USE IV-P WATERSHED.
- NO 100 YEAR FLOODPLAIN IS LOCATED ON THE PROPERTY, ACCORDING TO FEMA FIRM MAP 24027C0180D.
- THERE ARE 1.71 ACRES OF DEFINED FOREST ON THE SITE. THE FOREST IS CLASSIFIED AS HIGH PRIORITY BASED ON THE PRESENCE OF WETLANDS AND WETLAND BUFFERS.
- FIELD WORK FOR THIS INVENTORY WAS CONDUCTED ON JULY 11, 2014 BY JONATHAN NORMAN, PLANNER OF PENNONI ASSOCIATES UNDER THE SUPERVISION OF PETER J. STONE, RLA OF PENNONI ASSOCIATES.
- NO CEMETERIES OR HISTORIC STRUCTURES ARE LOCATED ON-SITE.
- NO RARE, THREATENED OR ENDANGERED PLANTS OR ANIMALS OR CRITICAL HABITATS WERE OBSERVED IN THE FIELD.

APPROVED: DEPARTMENT OF PLANNING AND ZONING

[Signature] 2-4-16
 CHIEF, DEVELOPMENT ENGINEERING DIVISION JP DATE

[Signature] 2-01-16
 CHIEF, DIVISION OF LAND DEVELOPMENT JB DATE

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

DEVELOPER
 HOWARD COUNTY
 DEPARTMENT OF PUBLIC WORKS
 BUREAU OF FACILITIES
 9250 BENDIX ROAD
 COLUMBIA, MARYLAND 21045
 ATTN: MARK STROMDAHL
 PHONE: 410-313-2700

OWNER
 HOWARD COUNTY
 DEPARTMENT OF PUBLIC WORKS
 BUREAU OF FACILITIES
 9250 BENDIX ROAD
 COLUMBIA, MARYLAND 21045
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PROJECT
**HCLS ELKRIDGE BRANCH
 AND 50+ CENTER**

AREA
 TAX MAP 38, PARCELS 97 & 478 ZONED B-1 & R-12
 GRID NO. 7 1st ELECTION DISTRICT
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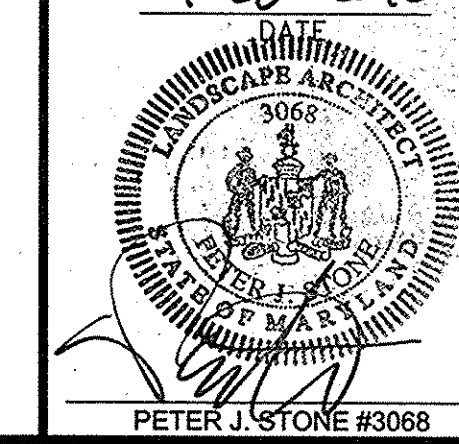
TITLE
**FOREST STAND DELINEATION
 NOTES AND TABULATIONS**

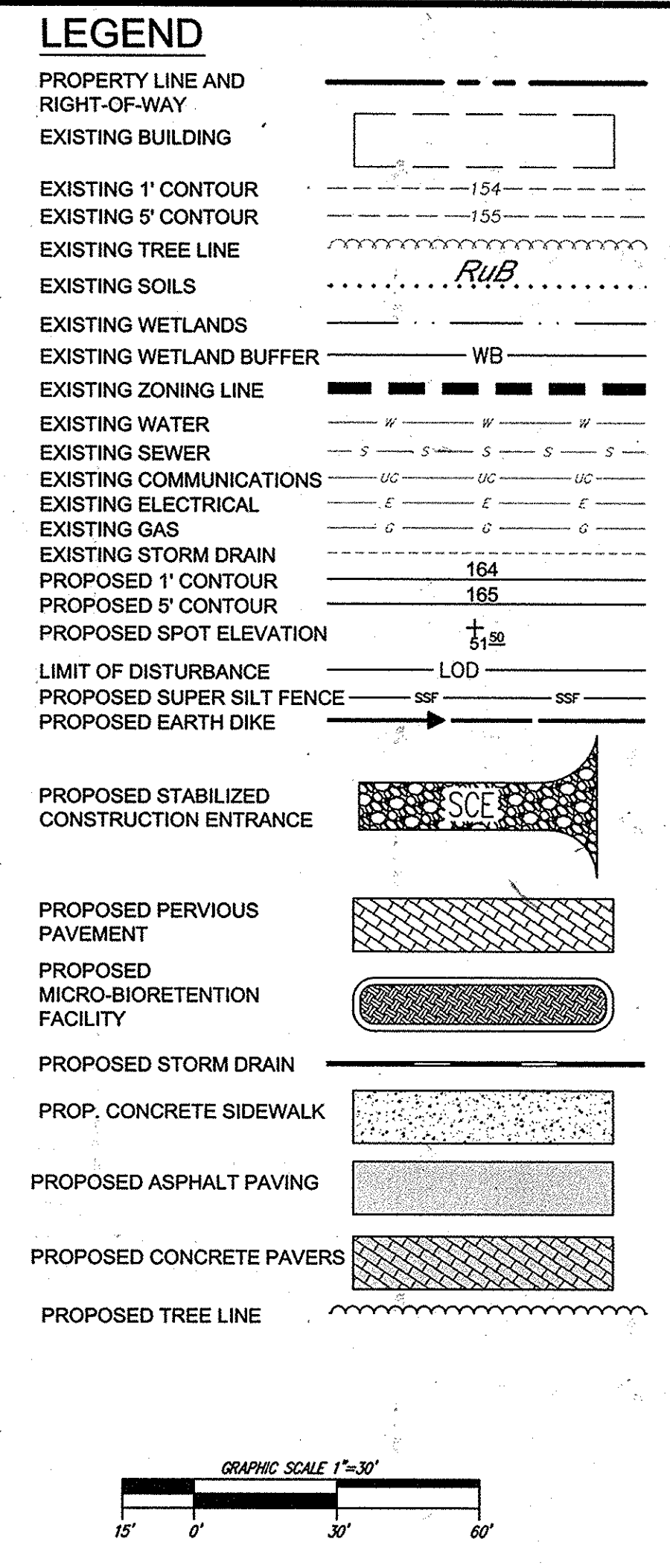
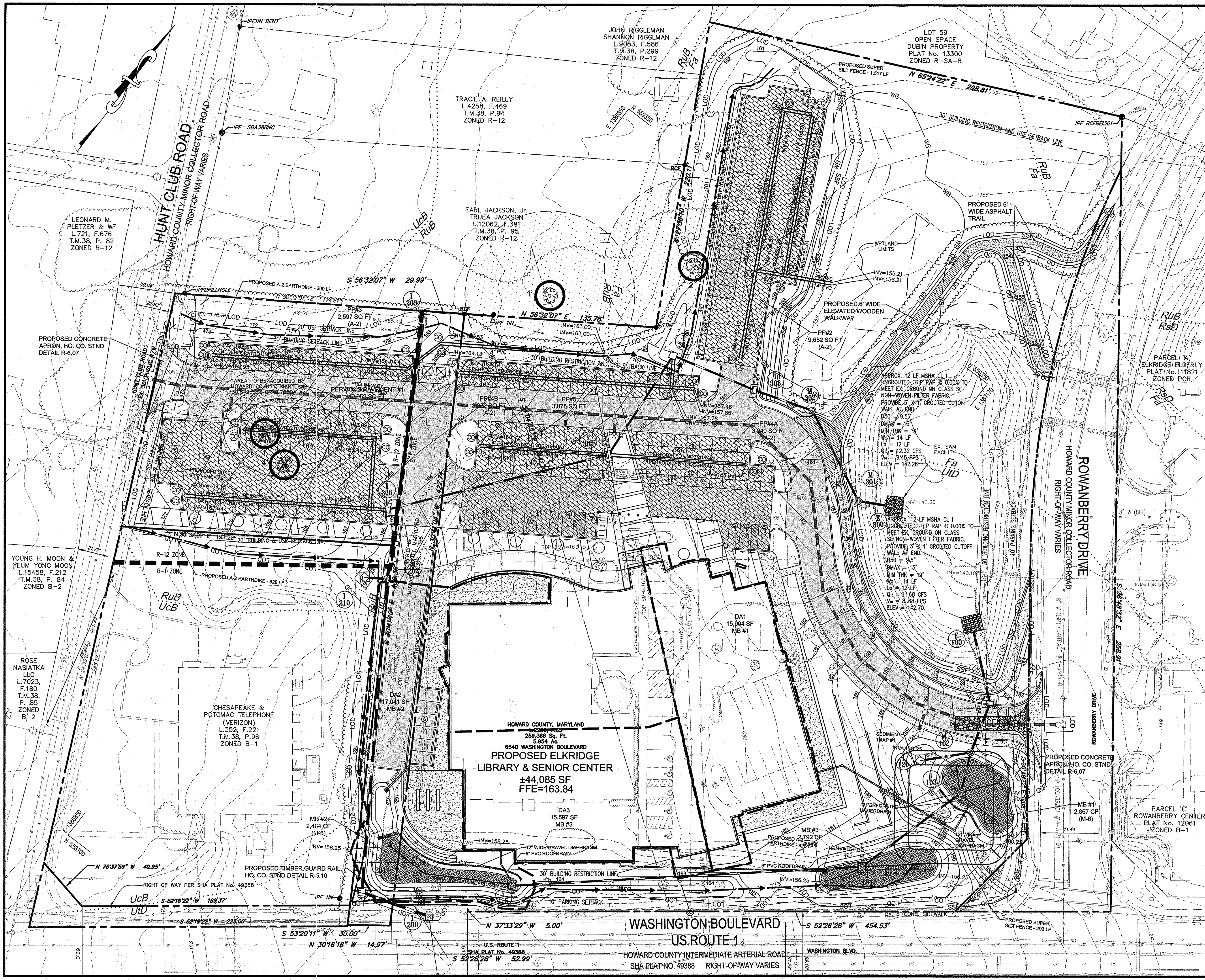
Pennoni Associates Inc.
 Engineers • Surveyors • Planners
 Landscape Architects

8818 Centre Park Drive, Suite 200 Columbia, MD 21045
 T 410.997.8900 F 410.997.9282

1-28-2016

DESIGNED BY: PJS/JSN
 DRAWN BY: JSN
 PROJECT NO: GRIM1402
 DATE: JANUARY 28, 2016
 SCALE: AS SHOWN
 DRAWING NO. 4 OF 6





APPROVED : DEPARTMENT OF PLANNING AND ZONING

Chief, Development Engineering Division *[Signature]* 2-4-16
DATE

Chief, Division of Land Development *[Signature]* 2-01-16
DATE

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

DEVELOPER: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS BUREAU OF FACILITIES 9250 BENDIX ROAD COLUMBIA, MARYLAND 21045 ATTN: MARK STROMDAHL PHONE: 410-313-2700

OWNER: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS BUREAU OF FACILITIES 9250 BENDIX ROAD COLUMBIA, MARYLAND 21045 ATTN: MARK STROMDAHL PHONE: 410-313-2700

PROJECT: HCLS ELKRIDGE BRANCH AND 50+ CENTER

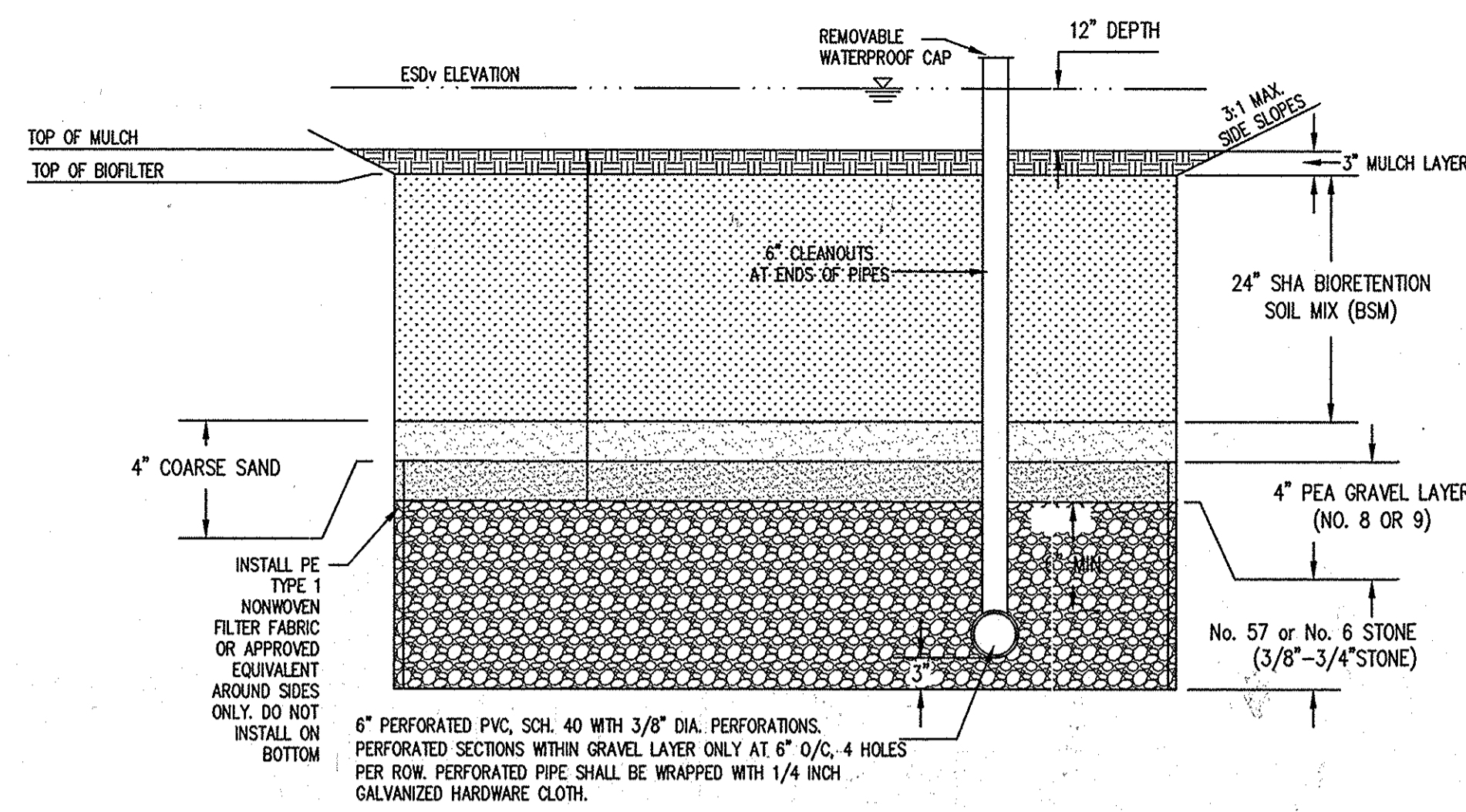
AREA: TAX MAP 38, PARCELS 97 & 478 ZONED B-1 & R-12 GRID NO. 7 1st ELECTION DISTRICT 6540 WASHINGTON BOULEVARD ELKRIDGE, MARYLAND 21043-4300 HOWARD COUNTY, MARYLAND

TITLE: ENVIRONMENTAL CONCEPT PLAN

Pennoni Pennoni Associates Inc. Engineers • Surveyors • Planners Landscape Architects
8818 Centre Park Drive, Suite 200 Columbia, MD 21045
T 410.997.8900 F 410.997.9282

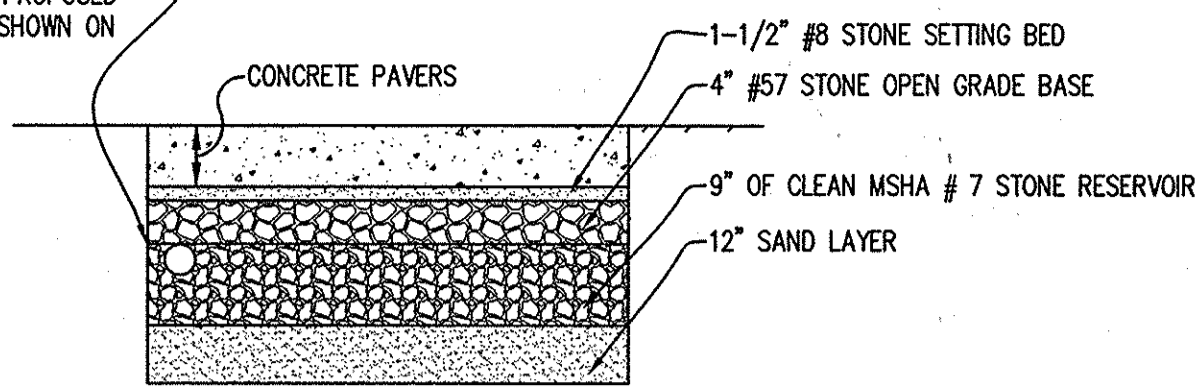
DESIGNED BY: PJS/JSN
DRAWN BY: JSN
PROJECT NO: GRIM1402
DATE: JANUARY 28, 2016
SCALE: 1" = 30'
DRAWING NO. 5 OF 6

STATE OF MARYLAND PROFESSIONAL ENGINEER



MICRO BIORETENTION TYPICAL SECTION
NOT TO SCALE

4\"/>



NOTES:

1. ALL PERMEABLE PAVEMENT SHALL BE INSTALLED BY A CERTIFIED INSTALLER.
2. PERMEABLE PAVEMENT SHALL HAVE A PERMEABILITY RATE OF 8 INCHES PER HOUR OR GREATER. SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO PLACEMENT OF ANY PERMEABLE PAVEMENT.
3. THE BOTTOM OF THE SUB-BASE SHALL BE LEVEL WITH ADJUSTMENTS ACCOMPLISHED BY STEPPING SUBGRADE LEVELS AT 1-FOOT CONTOUR INTERVALS PER THE GEOTECHNICAL REPORT AND ENGINEER'S DIRECTIVE.
4. ALL ADJUSTMENT TO EXISTING GRADE SHALL BE ACCOMPLISHED USING SUB-BASE MATERIAL.
5. SOILS SHALL NOT BE COMPACTED. CONSTRUCTION SHOULD BE PERFORMED WITH LIGHTWEIGHT, WIDE TRACKED EQUIPMENT TO MINIMIZE COMPACTION. EXCAVATED MATERIALS SHALL BE PLACED IN A CONTAINED AREA. LOADED DUMP TRUCKS DELIVERING THE INITIAL SAND MATERIAL SHALL ENTER EACH STEPPED AREA FROM BOTH ENDS AND SHALL LIMIT TRAVEL TO THE MINIMUM WIDTH POSSIBLE TO LIMIT SOIL COMPACTION TO THE MINIMUM AREA POSSIBLE.
6. SUB-BASE SHALL BE CLEAR AND FREE OF FINES. THE SUB-BASE SHALL BE PLACED IN LIFTS AND LIGHTLY ROLLED.

PERMEABLE PAVMENT
NOT TO SCALE

| ESDv SUMMARY TABLE | | | |
|---------------------------|---------------------------|---------------------------|------------------|
| TREATMENT | ESDv REQUIRED TO MEET Cpv | ESDv REQUIRED TO MEET Wqv | ESDv PROVIDED |
| PERMEABLE PAVEMENTS (A-2) | - | - | 4,521 cf |
| MICRO-BIORETENTION (M-6) | - | - | 9,328 cf |
| TOTAL | 12,306 cf | 8,911 cf | 13,849 cf |

APPROVED : DEPARTMENT OF PLANNING AND ZONING

Charles E. ...
CHIEF, DEVELOPMENT ENGINEERING DIVISION JP DATE 2.4.16
Mark Stromdahl
CHIEF, DIVISION OF LAND DEVELOPMENT QS DATE 2.1.16

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

DEVELOPER HOWARD COUNTY
DEPARTMENT OF PUBLIC WORKS
BUREAU OF FACILITIES
9250 BENDIX ROAD
COLUMBIA, MARYLAND 21045
ATTN: MARK STROMDAHL
PHONE: 410-313-2700

OWNER HOWARD COUNTY
DEPARTMENT OF PUBLIC WORKS
BUREAU OF FACILITIES
9250 BENDIX ROAD
COLUMBIA, MARYLAND 21045
ATTN: MARK STROMDAHL
PHONE: 410-313-2700

PROJECT
**HCLS ELKRIDGE BRANCH
AND 50+ CENTER**

AREA TAX MAP 38, PARCELS 97 & 478 ZONED B-1 & R-12
GRID NO. 7 1st ELECTION DISTRICT
8540 WASHINGTON BOULEVARD
ELKRIDGE, MARYLAND 21043-4300
HOWARD COUNTY, MARYLAND

TITLE
**ENVIRONMENTAL CONCEPT
PLAN DETAILS**

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SEAL
DESIGNED BY : PJS/JSN
DRAWN BY : JSN
PROJECT NO : GRIM1402
DATE : JANUARY 28, 2016
SCALE : AS SHOWN
DRAWING NO. 6 OF 6