GENERAL NOTES

- SUBJECT PROPERTY ZONED R-ED PER 10/06/13 COMPREHENSIVE ZONING PLAN.
- 3. TOTAL AREA OF PROPERTY = 5.87 AC.±
- PROPOSED NUMBER OF LOTS = 9
- PROPOSED AREA OF LOTS = 5.87 AC.± PUBLIC WATER AND SEWER WILL BE USED WITHIN THIS SITE.
- SILL, ADCOCK & ASSOCIATES, LLC ON FEBRUARY 27, 2012.
- THE TOPOGRAPHY SHOWN HEREON HAS BEEN FIELD RUN BY SILL, ADCOCK & ASSOCIATES, LLC
- 10. PREVIOUS HOWARD COUNTY FILE NUMBERS: NONE
- 11. THE SOILS SHOWN HAVE BEEN TAKEN FROM THE SOIL SURVEY OF HOWARD COUNTY, MARYLAND,
- 13. THE LOTS SHOWN HEREON COMPLY WITH THE MINIMUM OWNERSHIP, WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT.
- 14. ALL EXISTING WELLS, SEPTIC SYSTEMS AND SEWAGE DISPOSAL EASEMENTS WITHIN 100 FEET OF THE PROPERTY BOUNDARIES AND ALL EXISTING AND PROPOSED WELLS THAT ARE LOCATED
- CONSTRUCTION PLANS, FIELD SURVEYS, PUBLIC WATER AND SEWER PLANS AND OTHER

- THE SIZE, SHAPE, AND LOCATION. IT IS UNDERSTOOD THAT THIS SYSTEM HAS NOT BEEN
- FOREST ON-SITE AND THE USE OF AN OFF-SITE FOREST BANK OR PAYMENT OF A FEE-IN-LIEU.
- APPROVAL OF THIS ECP DOES NOT CONSTITUTE APPROVAL OF SUBSEQUENT AND ASSOCIATED REGULATIONS AND THE HOWARD COUNTY ZONING REGULATIONS SHALL OCCUR AT THE SUBDIVISION OR SITE DEVELOPMENT PLAN STAGES OR RED-LINE REVISION 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.

STORMWATER MANAGEMENT NOTES & DESIGN NARRATIVE

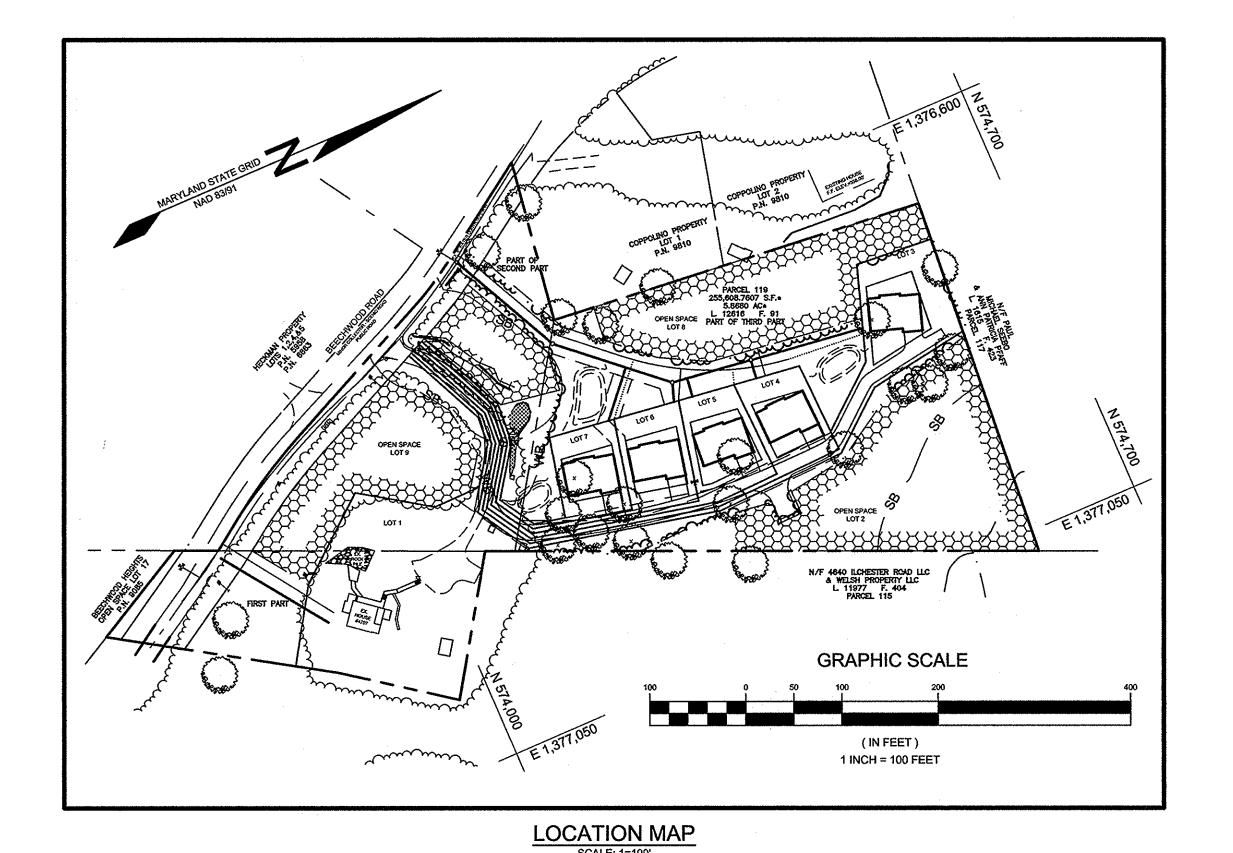
- 1. THIS SITE INCLUDES AN AREA (PROPOSED LOT 1) WITH AN EXISTING HOUSE AND DRIVEWAY WHICH IS EXCLUDED FROM THE
- 10-YEAR STORMWATER MANAGEMENT IS REQUIRED FOR THIS SITE. THE POST DEVELOPMENT RUNOFF FOR A 10-YEAR EQUIVALENT RAINFALL EVENT SHALL NOT EXCEED PREDEVELOPED CONDITIONS.
- STORMWATER MANAGEMENT OBLIGATIONS WILL BE TREATED BY UTILIZING MICRO-BIORETENTIONFACILITIES AND PERMEABLE VEMENTS FOR THE PROPOSED USE-IN-COMMON DRIVEWAY. THE PROPOSED HOUSES WILL BE TREATED USING DRYWELLS
- 6. TO THE GREATEST EXTENT PRACTICABLE THE NATURAL FLOW PATTERNS OF THE SITE HAVE BEEN MAINTAINED BY DIRECTING STORM DRAIN, BIO-RETENTION AND SHEET FLOW RUNOFF TO LOCATIONS WITHIN THE NATURAL DRAINAGE DIVIDES.
- 7. IMPERVIOUS AREAS HAVE BEEN REDUCED BY THE USE OF THE SMALLEST ROAD SECTION ALLOWABLE AND BY UTILIZING
- 8. THERE ARE MULTIPLE PROPOSED "ON-SITE" FOREST CONSERVATION/AFFORESTATION AREAS CREATED TO SATISFY THE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

"ON-SITE" FOREST CONSERVATION REQUIREMENTS FOR THIS DEVELOPMENT. 9. THE REQUIRED Pe FOR THE SITE (1.6") HAS BEEN TREATED THROUGH THE USE OF MICRO-BIORETENTION FACILITIES, DRYWELLS, NON-ROOFTOP DISCONNECTION AND PERMEABLE PAVEMENTS. AND ADDITIONAL STORAGE WITH 1 FOOT UNDER THE PERMEABLE PAVEMENTS AND 4 FEET UNDERNEATH THE BIO-RETENTION FACILITIES ARE ALSO PROPOSED TO MANAGE 10-YEAR STORM, SEDIMENT CONTROL WILL BE PROVIDED BY SILT FENCE, SUPER SILT FENCE, SEDIMENT TRAP, EARTH DIKE, INLET PROTECTION AND EROSION CONTROL MATTING. STRUCTURAL BMP'S, IF REQUIRED, WILL BE PROVIDED FOR AT THE NEXT PLAN STAGE TO ADDRESS OVERBANK FLOOD PROTECTION.

ENVIRONMENTAL CONCEPT PLAN PENKUSKY PROPERTY

LOTS 1, 3 THRU 7 AND OPEN SPACE LOTS 2, 8 & 9 HOWARD COUNTY, MARYLAND



SITE ANALYSIS I	DATA SHEET
ENVIRONMENTAL AREA	SIZE OR USE
TOTAL PROJECT AREA	5.87 ACRES±
LIMIT OF DISTURBANCE	2.0 ACRES±
GREEN OPEN AREA (LAWN)	3.39 ACRES±
IMPERVIOUS AREA	0.49 ACRES±
PROPOSED SITE USES	RESIDENTIAL
WETLANDS	0.02 ACRES±
WETLAND BUFFERS	0.41 ACRES±
FLOODPLAINS	0.00 ACRES±
FLOODPLAIN BUFFERS	0.00 ACRES±
EXISTING FOREST	4.50 ACRES±
SLOPES GREATER THAN 15%	5.14 ACRES±
HIGHLY ERODIBLE SOILS	0.40 ACRES± (1)

NOTE: (1) HIGHLY ERODIBLE SOILS ARE THOSE SOILS WITH A SLOPE GREATER THAN 15 PERCENT OR THOSE SOILS WITH A SOIL ERODIBILITY FACTOR 'K' GREATER THAN 0.35 AND WITH A SLOPE GREATER

LEGEND

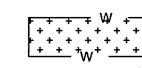
EXISTING SPECIMEN TREE

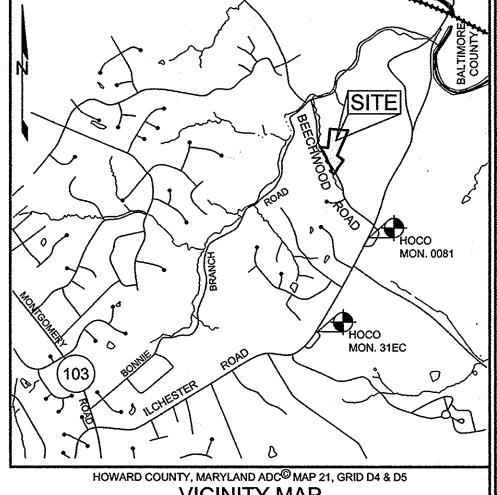
PROPOSED TREELINE

m

APPROXIMATE FOREST CONSERVATION

EXISTING WETLAND





BENCHMARKS					
NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION	
0081	572,335.36	1,377,504.01		BY OUR LADY OF PERPETUAL HELP, 9' SE SIDE OF ILCHESTER RD, 250' W OF BEECHWOOD RD	
31EC	570,387.05	1,376,436.70	477.73	NEAR BONNIE BRANCH MIDDLE SCHOOL, E	

STORMWATER MANAGEMENT SUMMARY TABLE							
D.A. Pe		ESDV					
D.A.	REQUIRED	PROVIDED	REQUIRED	PROVIDED			
Α	1.6"	1.6"	279 CF	279 CF			
В	1.6"	1.6"	584 CF	584 CF			
C	1.6"	1.6"	187 CF	187 CF			
LOT 3	1.6*	2.6"	253 CF	585 CF			
LOT 4	1.6"	2.6"	253 CF	743 CF			
LOT 5	1.6"	2.6"	253 CF	498 CF			
LOT 6	1.6"	2.6"	253 CF	503 CF			
LOT 7	1.6"	2.6"	257 CF	466 CF			
				·			

TREATMENT FOR THE ENVIRONMENTAL SITE DESIGN VOLUMES (ESDV)

- WILL BE PROVIDED FOR AS FOLLOWS: DRAINAGE AREA A: MICRO BIORETENTION FACILITY #1 (M-6) DRAINAGE AREA B: MICRO BIORETENTION FACILITY #2 (M-6)
- DRAINAGE AREA C: MICRO BIORETENTION FACILITY #3 (M-6) LOTS 3-6: DRYWELLS (M-5) & PERMEABLE PAVEMENT (A-2)
- LOT 7: DRYWELLS (M-5), MICRO BIORETENTION FACILITY #2 (M-6) & PERMEABLE PAVEMENTS (A-2)
- 2. ENVIRONMENTAL SITE DESIGN TO THE MAXIMUM EXTENT PRACTICABLE
- 3. CHANNEL PROTECTION (CPV) IS NOT REQUIRED SINCE ALL ESDV HAVE BEEN TREATED TO THE MAXIMUM EXTENT PRACTICABLE. 4. EXTREME FLOOD VOLUME (QF) IS NOT REQUIRED FOR THIS SITE.
- OVERBANK FLOOD PROTECTION VOLUME (QP) WILL BE PROVIDED IN MICRO BIORETETIONS AND ADDITONAL UNDERGROUND STORAGE UNDERNEATH THE BIORETENTION FACILITIES AND PERMEABLE

	SHEET INDEX	
SHEET NO.	DESCRIPTION	
1	COVER SHEET	
2	LAYOUT, GRADING & SEDIMENT CONTROL PLAN	
3	STORMWATER MANAGEMENT DRAINAGE AREA MAP	
4	FOREST STAND DELINEATION	

OWNERS

JOSEPH C. PENKUSKY & LISA ANN PENKUSKY 4707 BEECHWOOD ROAD **ELLICOTT CITY, MARYLAND 21043**

COVER SHEET PENKUSKY PROPERTY

LOTS 1, 3 THRU 7 AND OPEN SPACE LOTS 2, 8 & 9

TAX MAP 31 GRID 4

1ST ELECTION DISTRICT

PARCEL119 HOWARD COUNTY, MARYLAND

Adcock & Associates · LLC Engineers · Surveyors · Planners

CHECKED BY: WM/DR SCALE: AS SHOWN DATE: MAY 21, 2015 3300 North Ridge Road, Suite 160 Ellicott City, Maryland 21043 PROJECT#: 10-043 Phone: 443.325.7682 Fax: 443.325.7685 SHEET#: 1 of 4 Email: info@saaland.com

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY ICENSED PROFESSIONAL LAND SURVEYOR, UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE. NO. 9011, EXPIRATION DATE: 10-02-2015

ECP15-007

DESIGN BY: DB/PS/BK/YD

