GENERAL NOTES BENCHMARKS ENVIRONMENTAL CONCEPT PLAN HOWARD COUNTY BENCHMARK 31EM2 THE PROJECT IS IN CONFORMANCE WITH THE LATEST HOWARD COUNTY STANDARDS UNLESS WAIVERS HAVE BEEN APPROVED. N 569,641.12 E 1,374,816.23 ELEV.: 465.05' THE EXISTING TOPOGRAPHY SHOWN HEREON IS BASED ON A TOPOGRAPHIC SURVEY PREPARED BY JOHN C. MELLEMA, SR., HOWARD COUNTY BENCHMARK 31EM4 N 570,249.71 E 1,376,291.40 ELEV.: 481.289 THE PROJECT BOUNDARY IS BASED ON BOUNDARY PROVIDED BY JOHN C. MELLEMA, SR., INC., DATED FEB, 2017 5078 ILCHESTER ROAD THE COORDINATES AND ELEVATIONS SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL WHICH IS BASED UPON THE MARYLAND STATE PLANE COORDINATE SYSTEM. HOWARD COUNTY CONTROL STATION 31EA AND BENCHMARKS 31EM2 & 31EM4 WERE USED FOR THIS PROJECT. THE SUBJECT PROPERTY IS ZONED R-20 IN ACCORDANCE WITH THE ZONING REGULATIONS EFFECTIVE ON OCT. 06, 2013, AND IS SUBJECT TO SUBDIVISION AND LAND DEVELOPMENT REGULATIONS EFFECTIVE OCT. 07, 2007 PER COUNCIL BILL 47-2007 & 48-2007. DEVELOPMENT OR CONSTRUCTION ON THIS PROPERTY MUST COMPLY WITH SETBACK AND BUFFER L.04635 / F.00146 REGULATIONS IN EFFECT AT THE TIME OF SUBMISSION OF THE SITE DEVELOPMENT PLAN, WAIVER PETITION APPLICATION OR BUILDING/GRADING PERMIT APPLICATIONS. NO GRADING, REMOVAL OF VEGETATIVE COVER OR TREES, PAVING AND NEW STRUCTURES SHALL BE PERMITTED WITHIN THE LIMITS OF WETLANDS, STREAM(S) OR THEIR REQUIRED BUFFERS, FLOODPLAIN AND FOREST CONSERVATION EASEMENT AREAS. THIS PROPERTY IS LOCATED WITHIN THE METROPOLITAN DISTRICT. WATER FOR THIS PROJECT IS PUBLIC, CONTRACT #208-W. SEWER FOR THIS PROJECT IS TO BE PUBLIC, CONTRACT #10-1214. 10. EXISTING UTILITIES LOCATED FROM AS-BUILT DRAWINGS, CONTRACTOR SHALL LOCATE EXISTING UTILITIES WELL IN ADVANCE OF CONSTRUCTION ACTIVITIES AND TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND TO MAINTAIN UNINTERRUPTED SERVICE. 11. THERE ARE NO "FLOODPLAIN" AREAS LOCATED WITHIN THE DEVELOPMENT AREA AS PER FEMA DFIRM MAPS APPROVED BY FEMA AND EFFECTIVE FOR COUNTY DEVELOPMENT RESTRICTIONS AS OF MAY 6, 2013. N 570,250 N 570,250 12. THERE ARE 0 S.F. (0.00 AC.) >/= 25% STEEP SLOPES, AND 0 S.F. (0.00 AC.) 15%-24.99% STEEP SLOPES OVER 20,000 SF CONTIGUOUS LOCATED WITHIN THE DEVELOPMENT AREA. 13. THE PROJECT SITE WAS EVALUATED FOR THE PRESENCE OF ENVIRONMENTAL FEATURES AND A LETTER HAS BEEN PREPARED BY ECO-SCIENCE PROFESSIONALS, INC. C/O MR. JOHN CANOLES, JULY 19, 2017. MR. CANOLES NOTED AREAS OF FOREST AND LAWN BUT NO SPECIMEN TREES OR ANY OTHER REGULATED ENVIRONMENTAL FEATURES WERE FOUND WITHIN THE LIMITS OF THE DEVELOPMENT AREA FOR THIS PROJECT, 14. FOREST CONSERVATION WILL NOT BE REQUIRED FOR THIS PROJECT, BECAUSE THE PROPERTY IS LESS THAN 40,000 SF. 15. THERE ARE O S.F. (0.00 AC.) AREA OF WETLANDS PRESENT WITHIN THE DEVELOPMENT AREA PER ECO-SCIENCE LUMBDEN, JAMES L. PROFESSIONALS, INC. C/O MR. JOHN CANOLES, JULY 19, 2017. LUMSDEN, TRACY L. TE 16. OPEN SPACE IS NOT REQUIRED FOR A SINGLE, UNSUBDIVIDED LOT. 17. GEOTECHNICAL INVESTIGATIONS SHALL BE COMPLETED AS PART OF THE SITE DEVELOPMENT PLAN SUBMISSION. MAP 31/GRID15/P 829 18. A NOISE STUDY IS NOT REQUIRED FOR THIS PROJECT - DRY WELL (M-5) L. 4635 / F. 146 19. ILCHESTER ROAD IS CLASSIFIED AS A MINOR COLLECTOR. CRESTWOOD DRIVE AND TALBOTS LANDING ARE BOTH CLASSIFIED 7'Wx10'Lx4'D EX. FRAME AND -MODERATE SLOPES 15%-25% AS LOCAL ROADS. SITE ACCESS SHALL BE VIA A PRIVATE DRIVEWAY. HESIDENTIAL --DRY WELL (M-5) (413 S.F. / 0.01 AC. TOTAL) 20. TO THE BEST OF THE OWNERS KNOWLEDGE, THERE ARE NO BURIAL GROUNDS, CEMETERIES, OR HISTORIC STRUCTURES 7'Wx10'Lx4'D 0.39 AC. LOCATED WITHIN THE DEVELOPMENT AREA. 21. THERE ARE NO EXISTING DWELLINGS OR STRUCTURES WITHIN THE DEVELOPMENT AREA. LUMSDEN, JAMES L 22. THE PROPOSED BUILDINGS SHALL HAVE AN AUTOMATIC FIRE PROTECTION SPRINKLER SYSTEM. PROPOSED TREELINE— 23. STORMWATER MANAGEMENT FOR THE PROJECT IS PROVIDED BY THE USE OF NON-STRUCTURAL AND MICRO-SCALE MAP 31/GRID16/F 370 PRACTICES IN ACCORDANCE WITH ENVIRONMENTAL SITE DESIGN CRITERIA. MICRO-SCALE PRACTICES INCLUDE DRY WELLS DRY WELL (M-5) L 11981/F. 468 (M-5), AND A MICROBIORETENTION FACILITY (M-6). THESE FACILITIES WILL BE PRIVATELY OWNED AND MAINTAINED. 7"Wx10"Lx4"D 24. APPROVAL OF THIS ENVIRONMENTAL CONCEPT PLAN (ECP) DOES NOT CONSTITUTE AN APPROVAL OF ANY RESIDENTIAL SUBSEQUENT AND ASSOCIATED SITE DEVELOPMENT PLAN. REVIEW OF THIS PROJECT FOR COMPLIANCE WITH THE MODERATE SLOPES 15%-25% HOWARD COUNTY ZONING REGULATIONS SHALL OCCUR AT THE SITE DEVELOPMENT PLAN STAGE. DRY WELL (M-5)--PROPOSED TREELINE (2,541 S.F. / 0.06 AC.) — 7'Wx10'Lx4'D 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 PARCEL 146 EX. WOODS GIRL SCOUTS OF BALT & BALT CTY 25. APPROVAL OF THIS ENVIRONMENTAL CONCEPT PLAN (ECP) BY THE HOWARD SOIL CONSERVATION DISTRICT DOES NOT GRANT APPROVAL OF THE PROPOSED SEDIMENT CONTROL SCHEME. MAP 31/GRID15/P. 146 THERE ARE HIGHLY ERODIBLE SOILS ON THIS SITE. EX. 28" RED MAPLE L. 2121 F. 535 27. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY TEMPORARY CONSTRUCTION EASEMENTS THAT MAY BE (TO REMAIN) EXEMPT/COMMERCIAL SITE DATA TAX MAP 31, BLOCK 16, PARCEL 829 1ST ELECTION DISTRICT PRESENT ZONING: R-20 RESIDENTIAL TOTAL AREA OF PROPERTY: 0.39 AC. DPZ REFERENCES: DEED/PLAT REFERENCES: L.04635 / F.00146 CHAU, WING S AREA MANAGED BY ESDV (*THIS PLAN-"DEVELOPMENT AREA"): 19,427 S.F./0.45 AC. CHAU ELLIQIA B. 37 USE OF PROPOSED STRUCTURES (THIS PLAN): SINGLE FAMILY RESIDENTIAL *TOTAL BUILDING COVERAGE WITHIN THE DEVELOPMENT AREA: 2,247 SF (0.05 AC. OR 11.57%) MAP 31/GRID 16/P. 828 *PAVED AREA WITHIN THE DEVELOPMENT AREA: 3,174 SF (0.07 AC. OR 16.34%) EX. 26" CHESTNUT YS L. 11770 / F. 83 LIMIT OF DISTURBED AREA (THIS PLAN): 13,973 SF / 0.32 AC OAK-VINE COVERED TO NOTE OF MANY RESIDENTIAL *WETLANDS ON SITE: 0.00 AC. (TO BE REMOVED) *WETLAND RUFFERS ON SITE- 0.00 AC. *STREAMS AND THEIR BUFFERS ON SITE: 0.00 AC. *AREA OF 100 YEAR FLOODPLAIN: 0.00 AC. *AREA OF EXISTING FOREST ON SITE: 0.24 AC *AREA OF STEEP SLOPES (15% OR GREATER): 0.07 AC *AREA OF ERODIBLE SOILS: 0.07 AC. EX. FRAME BLOG *IMPERVIOUS AREA: 5,421 S.F. (0.12 AC. OR 27.90%) *GREEN/OPEN AREA: 14,006 S.F. (0.32 AC. OR 72.1%) NOTE *WITHIN LIMITS OF DEVELOPMENT AREA ONLY EX. FRAME AND BRICK BLDG EX. FRAME AND DEVELOPMENT AREA INCLUDES OFFSITE AREAS WHICH REQUIRE AN EASEMENT EX. 12" CHESTNUT **ENVIRONMENTAL SITE DESIGN NARRATIVE** EX. 10 REMAIN) EX. 18" WHITE OAK PROPOSED 15' EASEMENT-TFOR INGRESS, EGRESS AND UTILITIES FOR PARCEL 829 1. THE PROJECT SITE IS LOCATED IN THE R-20 ZONING DISTRICT, ON THE NORTH EX. PAVED UL-SIDE OF ILCHESTER ROAD, JUST EAST OF TALBOTS LANDING. THE CONTIGUOUS DRIVEWAY WELSH ROBERT F. PARCEL AREA IS 0.39 AC AND THE ACCESS TO THIS LANDLOCKED PARCEL WILL BE EXISTING 12' EASEMENT-PROVIDED THROUGH AN EASEMENT FOR INGRESS/EGRESS, UTILITIES AND GRADING, WELSH. ROSALIE B. FOR INGRESS, EGRESS AND WHICH TRAVERSES THE ADJACENT PROPERTY. DUE TO THE OFFSITE DISTURBANCES, MAP 31/GRID 16/P. 372 THE TOTAL DEVELOPMENT AREA FOR THE PROJECT IS 0.45 AC. AN ENVIRONMENTAL (L. 4035 F.140) STUDY BY ECO-SCIENCE PROFESSIONALS, INC. DETERMINED THAT THERE ARE NO L. 1074 / F. 221 S. \WAP 3\VGRID15/P. 371 -STREAMS, WETLANDS OR THEIR BUFFERS WITHIN THIS DEVELOPMENT AREA. THE RESIDENTIAL EX. 36" WHITE OAK SOS TOPOGRAPHY DOES NOT RESULT IN ANY STEEP SLOPES OVER 15% WITHIN THIS DEVELOPMENT AREA. ACCORDING TO CURRENT DFIRM APPROVED BY FEMA AND HOWARD (TO REMAIN) COUNTY, THERE IS NO 100YR FLOODPLAIN LOCATED WITHIN THE PROPERTY BOUNDARY. THE NATURAL RESOURCES WILL REMAIN UNDISTURBED, PROTECTED AND ENHANCED. -EX. 21' PAVED THIS SITE DRAINS TO THE BONNIE BRANCH OF THE PATAPSCO RIVER. DRIVEWAY THERE IS APPROXIMATELY 0.24 AC. OF EXISTING FOREST LOCATED ON THE SUBJECT PROPERTY. THE SUBJECT PROPERTY IS LESS THAN 40,000 S.F AND THEREFORE THE FOREST CONSERVATION ACT REQUIREMENTS ARE NOT APPLICABLE REVIEW OF THE SITE HAS FOUND THAT NO INDIVIDUAL SPECIMENT TREES, AS DEFINED BY THE LANDSCAPE MANUAL, ARE PRESENT ON THE SITE. ELLICOTT CITY, MD 21043 EVERY EFFORT HAS BEEN MADE TO REDUCE THE NECESSARY DISTURBANCE AND RIM=483.65-CLEARING OF FOREST FOR THE CONSTRUCTION OF THE PROPOSED HOUSE, DRIVEWAY, \ //VERT=474.48 STORMWATER MANAGEMENT FACILITIES AND ASSOCIATED GRADING. 3. THE SITE'S TOPOGRAPHY NATURALLY SLOPES FROM THE SOUTHEAST TO THE NORTHWEST TOWARD A CULVERT UNDER CRESTWOOD LANE. THEN TO THE BONNIE BRANCH OF THE PATAPSCO RIVER. THE SITE HAS BEEN DESIGNED TO MAINTAIN THESE NATURAL FLOW PATTERNS. 4. THE CONCEPTUAL REDUCTION IN IMPERVIOUS AREA THROUGH BETTER SITE DESIGN Pa IS ACHIEVED THROUGH THE ENVIRONMENTAL SITE DESIGN (ESD) FOR THE PROJECT TO THE MAXIMUM EXTENT PRACTICABLE (MEP). THE ESD CONCEPT PROPOSES THE USE OF FOUR (4) DRY WELLS (M-5) AND ONE (1) MICRO-BIORETENTION (M-6). THE OVERFLOW FOR THE PROPOSED MICRO-BIORETENTION (M-6) WILL DISCHARGE BY A DOMED RISER AND OUTFALL PIPE TO THE BONNIE BRANCH OF THE PATAPSCO RIVER N 569.850 AND ULTIMATELY TO THE PATAPSCO RIVER ITSELF. THE SITE HAS BEEN GRADED SO THAT UNDISTURBED UPLAND AREAS ARE DIVERTED BY SWALE AROUND NEW IMPERVIOUS AREAS WHEREVER POSSIBLE. 5. SEDIMENT CONTROL FOR THIS SPECIFIC SITE PLAN WILL BE PROVIDED THROUGH THE USE OF PERIMETER CONTROLS (PRIMARILY SILT FENCE AND/OR SUPER SILT FENCE AND CLEAR WATER DIVERSION FENCE). SEDIMENT CONTROL SHALL BE IN ACCORDANCE WITH THE CURRENT REQUIREMENTS AND SHALL BE APPROVED BY THE HOWARD SOIL CONSERVATION DISTRICT. TAX MAP 31 BLOCK 16 1ST ELECTION DISTRICT 6. AS STATED IN #3 ABOVE, STORMWATER MANAGEMENT FOR THE PROJECT SHALL BE MET THROUGH THE USE OF FOUR (4) DRY WELLS (M-5) AND ONE (1) MICRO-BIORETENTION (M-6). THESE FACILITIES WILL BE PRIVATELY OWNED AND **PLAN VIEW** THE RESULTS OF THE ENVIRONMENTAL SITE DESIGN FOR THIS PROJECT WILL REFLECT "WOODS IN GOOD CONDITION". SCALE: 1"=30' 1. APPROVAL OF THIS ECP DOES NOT CONSTITUTE TARGET PE = 1.60" PROVIDED PE = 1.60" AN APPROVAL OF ANY SUBSEQUENT AND ASSOCIATED PROVIDED = 786 CUFT TARGET ESDV = 780 CUFT BUILDING AND/OR GRADING PERMIT 7. NO DESIGN MANUAL WAIVERS ARE ANTICIPATED TO FULFILL THIS SWM CONCEPT. 2. REVIEW OF THIS PLAN FOR COMPLIANCE WITH

ZONING AND SUBDIVISION AND LAND DEVELOPMENT

AND MORE DETAILED COMMENTS AS THE PLAN PROGRESSES THROUGH THE PERMIT PROCESS.

ENVIRONMENTAL FEATURES:

OF THE ADJACENT PROPERTY OWNER.

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

5.23.18

REGULATIONS SHALL OCCUR AT THE PERMIT STAGES:

AND THEREFORE, THIS PLAN IS SUBJECT TO ADDITIONAL

THERE ARE NO WETLANDS, STREAMS OR STEEP SLOPES WITHIN THE DEVELOPED AREA. THE SITE IS PATIALLY FORESTED WITH A GARDEN

SEATING AREA AND AN AREA MAINTAINED AS LAWN FOR THE BENEFIT

NO DISTURBANCE TO ANY STREAMS, FLOODPLAIN, WETLANDS OR

VICINITY MAP

SCALE: 1"=2000" ADC MAP COORDINATES: MAP 28, GRID D-6

SHEET INDEX	
DESCRIPTION	SHEET N
COVER SHEET	1 0F 7
GRADING EROSION AND SEDIMENT CONTROL PLAN, ESDV DRAINAGE AREA MAP AND DETAILS	2 OF 2

THE WORLD AND CHARGE AND CUTTER PROPOSED CURB AND GUITTER EXISTING UTILITY POLE EXISTING LIGHT POLE EXISTING MAILBOX

EXISTING SIGN

EXISTING SANITARY MANHOLE

EXISTING SANITARY LINE

EXISTING CLEANOUT

EXISTING FIRE HYDRANT PROPERTY INF PROTO-OF-WAY UNE EXISTING TREELINE

PROPOSED TREELINE 15' EASEMENT FOR INGRESS/ EGRESS AND UTILITIES

OWNER JAMES L. LUMSDEN TRACY L. LUMSDEN T/E 5056 ILCHESTER ROAD

(410) 719-0430

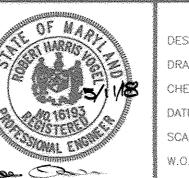
DEVELOPER EVERGREEN HOMES C/O MR. BRIAN MACARI 1400 FOREST GLEN CT. SUITE A BALTIMORE, MD 21228 (410) 747-7144

ENVIRONMENTAL CONCEPT PLAN

TITLE SHEET

5078 ILCHESTER ROAD L. 04635/ F. 00146

ROBERT H. VOGEL ENGINEERING, INC. ENGINEERS . SURVEYORS . PLANNERS 8407 MAIN STREET TEL: 410.461.7666 ELLICOTT CITY, MD 21043 FAX: 410.461.8961



DESIGN BY: CHECKED BY: RHV DATE: <u>NOVEMBER 2017</u> SCALE: AS SHOWN W.O. NO.: 17-34 PROFESSIONAL CERTIFICATE

ZONED: R-20 PARCEL 829 HOWARD COUNTY, MARYLAND

