GENERAL NOTES

. THE PROJECT IS IN CONFORMANCE WITH THE LATEST HOWARD COUNTY STANDARDS UNLESS WAIVERS HAVE

THE EXISTING TOPOGRAPHY SHOWN HEREON IS BASED ON A TOPOGRAPHIC SURVEY PREPARED BY ROBERT H. VOGEL ENGINEERING, INC., DATED JULY 2014. OFFSITE TOPOGRAPHY FROM HOWARD COUNTY GIS.

THE PROJECT BOUNDARY IS BASED ON A BOUNDARY SURVEY PREPARED BY ROBERT H. VOGEL ENGINEERING,

4. THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL WHICH IS BASED UPON THE MARYLAND STATE PLANE COORDINATE SYSTEM. HOWARD COUNTY MONUMENT NOS. 42IA AND

THE SUBJECT PROPERTY IS ZONED "R-12" IN ACCORDANCE WITH THE 10/6/2013 COMPREHENSIVE ZONING PLAN AND AND IS SUBJECT TO THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS EFFECTIVE 10/2/03 PER

6. NO GRADING, REMOVAL OF VEGETATIVE COVER OR TREES, PAVING AND NEW STRUCTURES SHALL BE PERMITTED WITHIN THE REQUIRED WETLANDS, STREAM(S) OR THEIR BUFFERS, FOREST CONSERVATION EASEMENT AREAS AND

- THIS PROPERTY IS LOCATED WITHIN THE METROPOLITAN DISTRICT.
- WATER FOR THIS PROJECT IS TO BE SERVICE CONNECTIONS FROM CONTRACT NO. 3-W.
- SEWER FOR THIS PROJECT IS TO BE SERVICE CONNECTIONS FROM CONTRACT NO. 350-S.

10. EXISTING UTILITIES LOCATED FROM TOPOGRAPHIC SURVEY AND 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. A "FLOODPLAIN" IS LOCATED ONSITE. THE "FLOODPLAIN" ELEVATIONS ARE TAKEN FROM THE "GATEWAY VILLAGE DAM-DANGER REACH STUDY" PREPARED FOR THE MARYLAND DEPARTMENT OF THE ENVIRONMENT - MDE, DAM SAFETY DIVISION DATED JULY 2012 FOR KCI TECHNOLOGIES, INC. THE ELEVATIONS SHOWN ARE WORST CASE PROBABLE MAXIMUM FLOOD (PMF) ELEVATIONS ASSOCIATED WITH A DAM FAILURE.

- 12. NO STEEP SLOPES OVER 20,000 SF CONTIGUOUS ARE LOCATED ONSITE.
- 13. FOREST CONSERVATION OBLIGATIONS FOR THIS PROJECT SHALL BE ADDRESSED BY A FOREST CONSERVATION PLAN SUBMITTED WITH A SUBDIVISION OR SITE DEVELOPMENT PLAN.
- 14. NO WETLANDS ARE PRESENT ONSITE PER ECO-SCIENCE PROFESSIONALS, INC. C/O MR. JOHN CANOLES,

15. IN ACCORDANCE WITH SECTION 16.121(A)(2) OF THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS, THE OPEN SPACE REQUIREMENTS FOR THIS R-12 PROJECT (7,200 SF LOT) IS 40% OF GROSS AREA (2.35 AC. GROSS AREA X 40% = 0.94 AC.).

- 16. GEOTECHNICAL INVESTIGATIONS SHALL COMPLETED AS PART OF THE SITE DEVELOPMENT PLAN PACKAGE.
- 17. A NOISE STUDY IS NOT REQUIRED FOR THIS PROJECT.
- 18. FOREST STAND DELINEATION PLAN PREPARED BY ECO-SCIENCE PROFESSIONALS, INC. C/O MR. JOHN
- MR. CANOLES NOTED 5 SPECIMEN TREES ON THE PROJECT SITE. THIS PLAN PROPOSAL REQUIRES THE REMOVAL OF SPECIMEN TREE #4. THE REQUIRED WAIVER PETITION SHALL BE REQUESTED WITH A FUTURE SUBDIVISION
- 19. GUILFORD ROAD IS CLASSIFIED AS A MAJOR COLLECTOR. SITE ACCESS SHALL BE VIA A USE-IN-COMMON DRIVEWAY

20. TO THE BEST OF THE OWNERS KNOWLEDGE, THERE ARE NO BURIAL GROUNDS, CEMETERIES, OR HISTORIC STRUCTURES LOCATED ON THIS PROPERTY.

- 21. THE EXISTING DWELLING AND STRUCTURES HAVE BEEN REMOVED.
- 22. THE PROPOSED UNITS SHALL HAVE AN AUTOMATIC FIRE PROTECTION SPRINKLER SYSTEM.

23. STORMWATER MANAGEMENT FOR THE PROJECT IS PROVIDED BY THE USE OF MICRO-SCALE AND NON STRUCTURAL PRACTICES PRACTICES IN ACCORDANCE WITH ENVIRONMENTAL SITE DESIGN CRITERIA. MICRO-SCALE PRACTICES INCLUDE RAIN GARDEN (M-7) FACILITIES AND RAIN BARRELS (M-1) AS WELL AS NON STRUCTURAL PRACTICES: DISCONNECTION OF ROOFTOP RUNOFF (N-1) AND SHEET FLOW TO CONSERVATION AREA (N-3). THESE FACILITIES WILL BE PRIVATELY OWNED AND MAINTAINED.

APPROVAL OF THIS ENVIRONMENTAL CONCEPT PLAN (ECP) DOES NOT CONSTITUTE AN APPROVAL OF ANY SUBSEQUENT AND ASSOCIATED SUBDIVISION PLAN/PLAT AND/OR SITE DEVELOPMENT PLAN AND/OR RED-LINE REVISION PLAN. REVIEW OF THIS PROJECT FOR COMPLIANCE WITH THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS AND THE HOWARD COUNTY ZONING REGULATIONS SHALL OCCUR AT THE SUBDIVISION PLAN/PLAT AND/OR SITE DEVELOPMENT PLAN AND/OR RED-LINE REVISION PROCESS. THE APPLICANT AND MAY ALTER THE OVERALL SITE DESIGN) AS THIS PROJECT PROGRESSES THROUGH THE PLAN REVIEW PROCESS.

25. APPROVAL OF THIS ENVIRONMENTAL CONCEPT PLAN (ECP) BY THE HOWARD SOIL CONSERVATION DISTRICT DOES NOT GRANT APPROVAL OF THE PROPOSED SEDIMENT CONTROL SCHEME.

ENVIRONMENTAL SITE DESIGN NARRATIVE:

IN ACCORDANCE WITH CHECKLIST ITEM III.K.

THE NATURAL AREAS ON THE PROJECT SITE ARE LOCATED IN THE SOUTHERN PORTION OF THE SITE DRAINING TO THE EAST. NO DISTURBANCE TO THE STREAM AND STREAM BUFFER OR THEIR WOODED RESOURCES IS PROPOSED. NO WETLAND AND WETLAND BUFFER IS PRESENT ONSITE.

2. NO DRAMATIC DISTURBANCE TO THE NATURAL DRAINAGE PATTERNS ARE PROPOSED, PLEASE REFER TO THE PROPOSED GRADING, SHEET 2.

3. THE CONCEPTUAL REDUCTION IN IMPERVIOUS AREA THROUGH BETTER SITE DESIGN IS ACHIEVED THROUGH THE ENVIRONMENTAL SITE DESIGN (ESD) FOR THE PROJECT. THE ESD CONCEPT INCLUDES THE USE OF MICRO-SCALE AND NON STRUCTURAL PRACTICES PRACTICES INCLUDING RAIN GARDEN (M-7) FACILITIES AND RAIN BARRELS (M-1). ALSO, NON STRUCTURAL PRACTICES DISCONNECTION OF ROOFTOP RUNOFF (N-1) AND SHEET FLOW TO CONSERVATION AREA (N-3) IS PROPOSED. THESE FACILITIES WILL BE PRIVATELY OWNED AND

4. SEDIMENT CONTROL FOR THIS SPECIFIC SITE PLAN WILL BE PROVIDED THROUGH THE USE A PROPOSED SUPER SILT FENCE PERIMETER CONTROLS. SEDIMENT CONTROL SHALL BE IN ACCORDANCE WITH CURRENT REQUIREMENTS AND SHALL BE APPROVED BY THE HOWARD SOIL CONSERVATION DISTRICT.

5. STORMWATER MANAGEMENT FOR THE PROJECT SHALL BE MET THROUGH THE USE OF THE MICRO-SCALE AND NON STRUCTURAL PRACTICES PRACTICES INCLUDING RAIN GARDEN (M-7) FACILITIES AND RAIN BARRELS (M-1). ALSO, NON STRUCTURAL PRACTICES DISCONNECTION OF ROOFTOP RUNOFF (N-1) AND SHEET FLOW TO CONSERVATION AREA (N-3) IS PROPOSED. THE RESULTS OF THE ENVIRONMENTAL SITE DESIGN FOR THIS PROJECT WILL REFLECT "WOODS IN GOOD CONDITION".

TARGET PE = 1.6" TARGET ESDv = 2,170 CUFT PROVIDED = 2,255 CUFT

6. AT THIS CONCEPT STAGE OF DEVELOPMENT, NO DESIGN MANUAL WAIVERS AND/OR WAIVER PETITIONS FOR ENVIRONMENTAL AND STORMWATER MANAGEMENT DESIGN ARE REQUIRED.

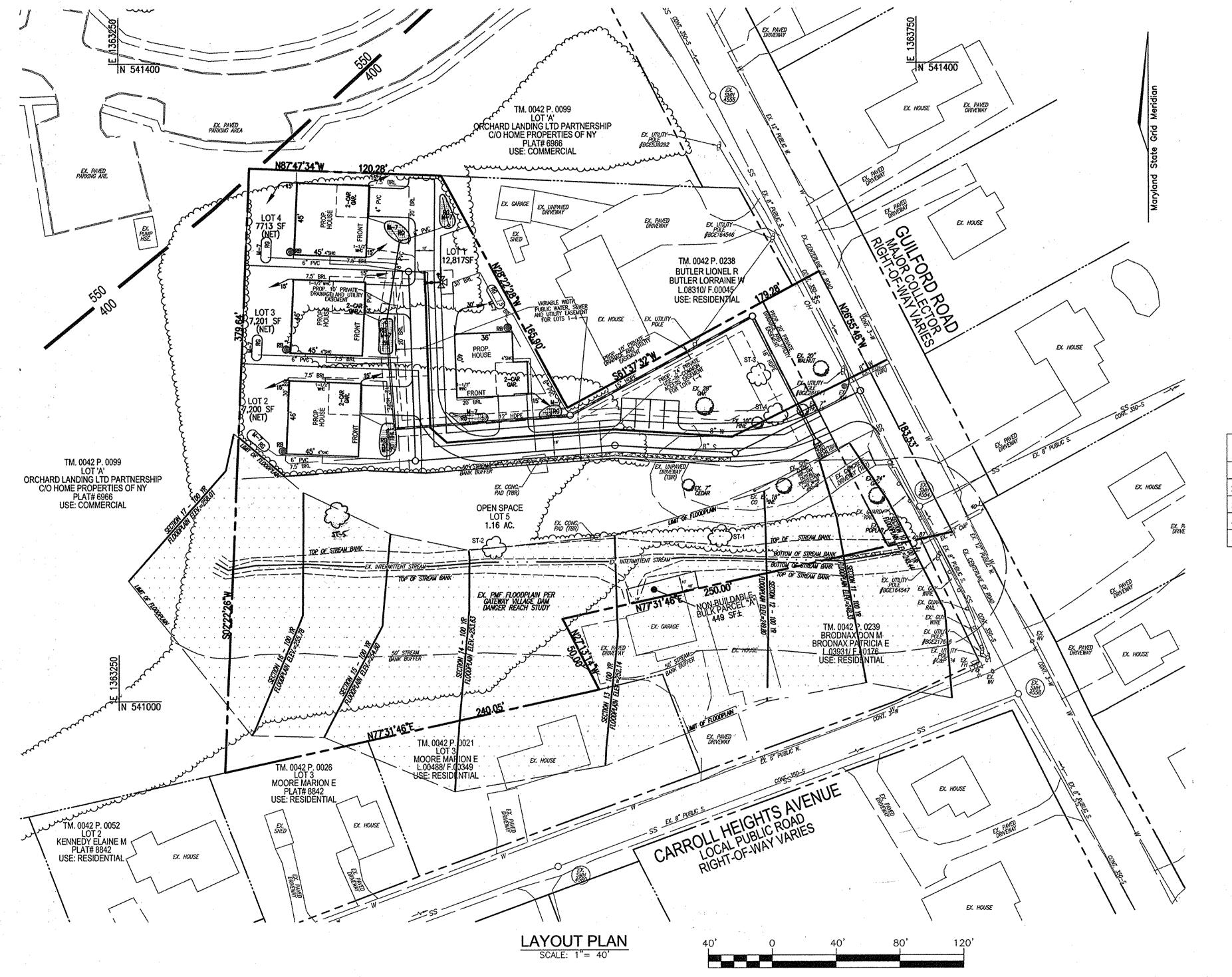
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

ENVIRONMENTAL CONCEPT PLAN COTTAGE GROVE

9992 GUILFORD ROAD JESSUP, MD. 20794 HOWARD COUNTY, MD

NOTES:

1. ALL WATER CONNECTIONS SHALL BE 1-1/2" WITH 1" OUTSIDE METER SETTINGS, UNLESS OTHERWISE NOTED. REFER TO HOWARD COUNTY DETAILS W-3.28 OUTSIDE METER SETTINGS.



Eco-Science

Professionals, Inc

P.O. Box 5006 Glen Arm, Maryland 2105

SITE ANALYSIS DATA CHART

A. TOTAL PROJECT AREA: B. AREA OF PLAN SUBMISSION: C. AREA OF WETLANDS AND BUFFERS: D. AREA OF FLOODPLAIN:

E. AREA OF FOREST: F. AREA OF STEEP SLOPES (15% & GREATER): G. ERODIBLE SOILS: H. LIMIT OF DISTURBED AREA:

. GREEN OPEN AREA: PROPOSED IMPERVIOUS AREA: L. PRESENT ZONING DESIGNATION: M. OPEN SPACE REQUIRED: N. TOTAL NUMBER OF UNITS ALLOWED: D. TOTAL NUMBER OF UNITS PROPOSED:

P. DPZ FILE REFERENCES:

2.35 AC. 2.35 AC. 0.9 AC.+/-0.8 AC. (REFER TO FSD) 0 S.F. OR 0.00 AC. 0.9 AC. +/-I. PROPOSED USES FOR SITE AND STRUCTURES: RESIDENTIAL SINGLE FAMILY DETACHED (SFD) HOMES 1.98 AC.

0.37 AC.

0.94 ACRES (40%)

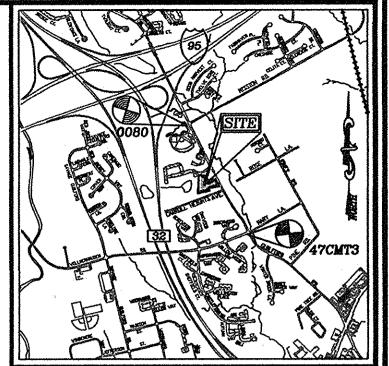
BENCHMARKS

COORDINATES BASED ON NAD 83 MARYLAND COORDINATE SYSTEM AS PROJECTED BY HOWARD COUNTY GEODETIC

CONTROL STATIONS 0080, 47CMT3. HOWARD COUNTY BENCHMARK

N 542366.914 E 1363075.974 ELEV. 282.392 47CMT3 N 540092.293 E 1364340.611 ELEV. 212.962

SHEET INDEX		
DESCRIPTION	SHEET	NO.
LAYOUT PLAN	1 OF	3
SOILS MAP, GRADING, EROSION, AND SEDIMENT CONTROL PLAN	2 OF	3
SWM DRAINAGE AREA MAP, NOTES & DETAILS	3 OF	3



VICINITY MAP SCALE: 1"=2,000'

ADC MAP COORDINATE: MAP 40, GRID F-2 LEGEND

RIGHT-OF-WAY LINE ADJACENT PROPERTY LINE CENTERLINE OF EXISTING STREAM EXISTING TREELINE

== == EXISTING CURB AND GUTTER PROPOSED CURB AND GUTTER

Specimen Tree Chart

Key	Species	Size (in.dbh)	CRZ (feet radius)	Comments
1	Sweet Gum	37	55.5	Good condition, in floodplain
2	Red oak	36.5	54.75	fair, storm damage in crown
3	Pin oak	30	45	good
4	Pin oak	31	46.5	good
5	Oak sp.	36	54	good condition, in floodplain

PER PLAN PROPOSAL, SPECIMEN TREE #4 SHALL BE REMOVED. REQUIRED WAIVER SHALL BE SUBMITTED WITH FUTURE SUBDIVISION PLAN.

> MICHAEL L. PFAU TRINITY QUALITY HOMES, INC 3675 PARK AVE., SUITE 301 3675 PARK AVE., SUITE 301 ELLICOTT CITY, MD 21043 ELLICOTT CITY, MD 21043 (410) 480-0023 (410) 480-0023

DATE REVISION NO. **ENVIRONMENTAL CONCEPT PLAN**

LAYOUT PLAN

COTTAGE GROVE ZONED: R-12 L.15472/ F.00362

TAX MAP 42 BLOCK 24 6TH ELECTION DISTRICT

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

MD DNR Qualified Professional

ertification,#AWDCP93MD0610044B2

USACOE Wetland Delineator

Telephone (410) 832-2480 Fax (410) 832-248

1. NO RARE, THREATENED OR ENDANGERED SPECIES OR THEIR APPROPRIATE HABITATS WERE

THE STREAM ON THE SUBJECT PROPERTY IS PART OF THE PATUXENT RIVER WATERSHED

THERE ARE SPECIMEN TREES ON THE PROPERTY. THERE ARE NO KNOWN TREES THAT ARE

STATE CHAMPION TREES AND OR TREES 75% OF THE SIZE OF THE STATE CHAMPION TREE ON

OBSERVED ON THE PROPERTY DURING FIELD REVIEW BY ECO-SCIENCE PROFESSIONALS, INC.

LESS THAN 0.1 ACRE OF FOREST IS PRESENT WITHIN 100 FEET OF THE PROPERTY

(02-13011). THE STREAM DRAINS TO LITTLE PATUXENT RIVER, DOWNSTREAM OF ROUTE 1

ÀND IS CLÁSSIFIED AS USE I-P. A 50 FOOT INTERMITTENT STREAM BUFFER WILL BE

THERE ARE NO KNOWN HISTORIC STRUCTURES OR CEMETERIES ON THE PROPERTY.

SURROUNDING LAND USE IS HIGH DENSITY RESIDENTIAL DEVELOPMENT.

THE SITE CONTAINS 0.86 ACRES OF 100 YEAR FLOODPLAIN

CHECKED BY:

SHEET ___OF

PARCEL 10 HOWARD COUNTY, MARYLAND

