NOTE:
APPROVAL OF THIS ECP DOES NOT CONSTITUTE AN
APPROVAL OF ANY SUBSEQUENT AND ASSOCIATED
SUBDIVISION PLAN, SITE DEVELOPMENT PLAN, OR
GRADING OR BUILDING PERMIT 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, SITE DEVELOPMENT
PLAN OR GRADING AND BUILDING PERMIT STAGES

### LEGEND

EXISTING CONTOURS

EXISTING TREELINE

PROPOSED TREELINE

EXISTING STRUCTURE

PROPOSED HOUSE

SOIL DELINEATION

SOILS DELINEATION

ESD DRAINAGE AREA

BMP DRAINAGE AREA

PROP. MICRO-BIORETENTION FACILITY

LIMIT OF DISTURBANCE

PROP. BIO-SWALE
SUPER SILT FENCE
CLEANWATER DIVERSION

MODERATE SLOPES 15% TO 24.9%

mpervious Area

Green Space(Within LOD)

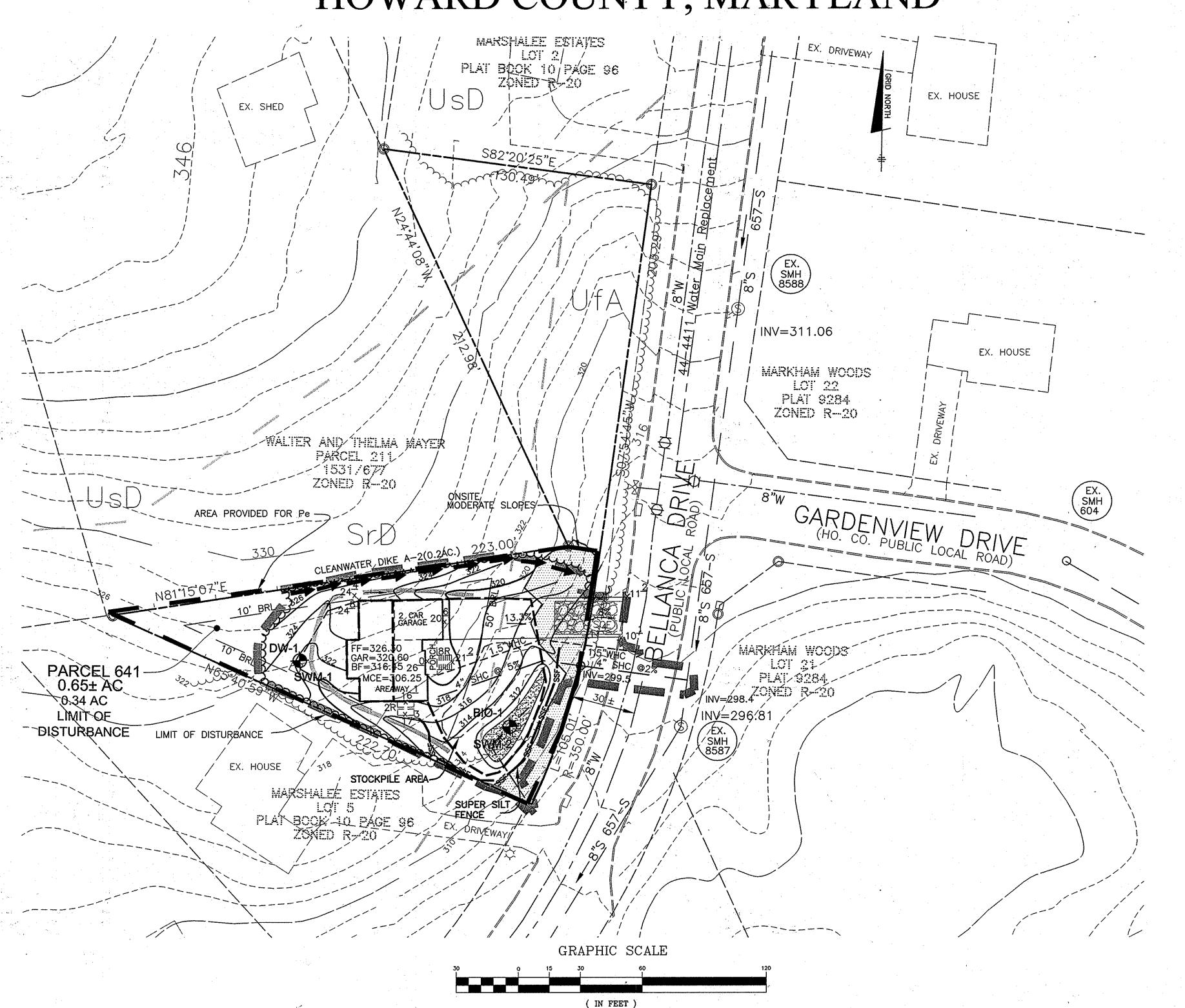
\*All areas are approximate.

## ECP Site Analysis Data Sheet Gross Area 100yr Floodplain Slopes 15% or Greater Wetlands Wetlands Wetlands Buffer Stream 0 If Stream Buffer 0.00 ac Forested Area(Excluding Floodplain) Erodable Soils('D'Soil) 0.33 ac Limit of Disturbance 0 0.65 ac 0.00 ac 0.00 ac 0.00 ac 0.00 ac

0.08 ac

0.26 ac

# ENVIRONMENTAL CONCEPT PLAN ECP-15-019 FUHR PROPERTY 5814 BELLANCA DRIVE 1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND



1 inch = 30 ft.

	SOILS LEGEND	ı	
SYMBOL	NAME/DESCRIPTION	K VALUE	GROUP
SrD	SASSAFRAS AND CROOM SOILS, 10 TO 15 PERCENT SLOPES	0.28	В
UfA	URBAN LAND-FALLSINGTON COMPLEX, 0 TO 2 PERCENT SLOPES	-	· D
UsD	URBAN LAND-SASSAFRAS-BELTSVILLE COMPLEX, 5 TO 15 PERCENT SLOPES	0.37	D
-		, s	
BASED C	N USDA NRCS WEB SOIL NATIONAL COOPERATIVE SOIL SURVEY. SEE HOWARD COUNTY SO	IL SURVEY MAI	P NO. 1

en a transfer

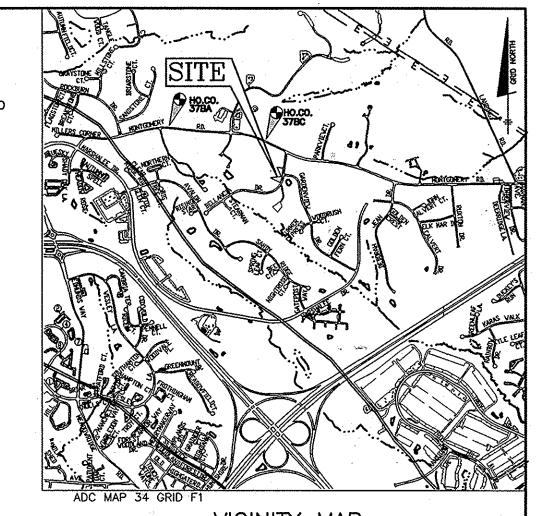
Pe(Provided) Req	Required Provided Ownership
2.6	
2.2	
2.2	
and the second s	Seaton Control of Marie And Angles and Angle

SWM SUMMARY TABLE

BENCH MARKS

STANDARD DISC ON CONCRETE MONUMENT
MONTGOMERY ROAD 0.4MI. OF MEADOWRIDGE ROA
N 563785.6441 E 1376343.207
HO. CO. #37BC (NAD '83) ELEV. 373.097
STANDARD DISC ON CONCRETE MONUMENT
MONTGOMERY ROAD AT ROCKBURN ES

N 563666.336 E 1378054.838



VICINITY M/

### GENERAL NOTES

- SUBJECT PROPERTY ZONED R-20 PER THE 10-6-13 COMPREHENSIVE ZONING PLAN
- 2. THIS PROJECT IS SUBJECT TO THE AMENDED FIFTH EDITION OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS AND THE OCTOBER 6, 2013 COMPREHENSIVE ZONING REGULATIONS
- 3. TOPOGRAPHY SHOWN HEREON IS BASED ON A FIELD RUN SURVEY PREPARED BY BENCHMARY
- 4. THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTR
  WHICH IS BASED UPON THE MARYLAND STATE PLANE COORDINATE SYSTEM. HOWARD COUNTY
- 5. NO GRADING, REMOVAL OF VEGETATIVE COVER OR TREES, PAVING AND NEW STRUCTURES SHALL BE PERMITTED WITHIN THE STREAMS, OR THEIR REQUIRED BUFFERS AND FLOODPLAIN UNLESS DEEMED NECESSARY BY THE DEPARTMENT OF PLANNING AND ZONING.
- 6. THERE ARE NO ONSITE STEEP SLOPES GREATER THAN 25%.
- 7. A FOREST STAND DELINEATION IS PREPARED BY BENCHMARK ENGINEERING, INC. DATED JULY
- 8. THERE ARE NO WETLANDS LOCATED ONSITE.
- 9. THERE ARE NO FLOODPLAINS LOCATED ONSITE.
- 10. TO THE BEST OF OUR KNOWLEDGE THERE ARE NO CEMETERIES LOCATED ON THIS SITE
- 11. THIS SITE IS LOCATED WITHIN THE METROPOLITAN DISTRICT.
- 12. THIS PLAN WILL BE EXEMPT FROM FOREST CONSERVATION REQUIREMENTS SECTION
  16.1202(b)(1)(i) OF THE SUBDIVISION REGULATIONS BECAUSE THE LOT IS LESS THAN LESS THAN 40.000 SE IN STATE.
- 13. PREVIOUS DPZ FILES: N/A
- 14. AT THE TIME OF THE SITE DEVELOPMENT PLAN, A MORE DETAILED SEDIMENT CONTROL PLAN SHALL BE DEVELOPED, INCLUDING STUDY OF VARIOUS DISCHARGE AREAS, AND MORE COMPLETE DETERMINATION OF SEDIMENT TRAP NECESSITY.
- 15. THESE PLANS HAVE BEEN REVIEWED AND APPROVED BY THE HOWARD SOIL CONSERVATION DISTRICT DATED 9.29.14.

### DESIGN NARRITIVE

The site was analyzed as woods in good condition and a target RCN was determined. A target rainfall depth treatment (Pe) was determined based on the measured impervious areas and HSG soil types. The target Pe for this site is 1.1 inches. The target Pe was treated using Environmental Site Design practices as outlined in Chapter 5 of the 2000 Maryland Stormwater Design Manual, as amended by Maryland's Stormwater Management Act of 2007. The selected methods include a Bioretention facility for the front half of the house and driveway and a drywell for the back half of the house. The facilities will be privately owned.

As a result of addressing the stormwater management by use of ESDs a Microbiortenetion facility and a dry wells to the MEP the land conditions have theoretically been returned to woods in good condition and therefore reduced the overall run-off for the 1-year storm. A reduction in impervious area with the use of bioretention and Nonstructural practices makes for a better site design as well as maintaining the original drainage patterns.

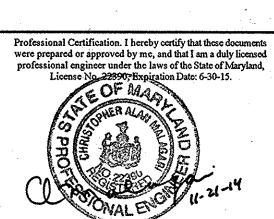
Sediment and erosion control shall comply with the latest edition of the MDE Standards and Specifications for Sediment Control and has been limited to the areas necessary to conduct ESD practices and onsite functionality.

It is concluded that all ESD to the MEP requirements as defined in the Stormwater Management Act of 2007 have been met for the proposed development. The Water Quality has been provided by the implementation of a micro-bioretention facility (M-6) and a dry well (M-5) to treat all of the proposed impervious onsite.

There will be no disturbances to any environmental features nor will waivers be required for this development.

SCALE:

### BENCHMARK ENGINEERS & LAND SURVEYORS & PLANNERS ENGINEERING, INC. 8480 BALTIMORE NATIONAL PIKE & SUITE 315 & ELLICOTT CITY, MARYLAND (P) 410-465-6105 (F) 410-465-6644 WWW.BEI-CIVILENGINEERING.COM



### OWNER:

TRACY R. FUHR
5814 BELLANCA DRIVE
ELKRIDGE, MD 21075
410. 984. 1445

BUILDER:

RYAN LEGACY BUILDERS
16013 LADY CAMARIN COURT
MT. AIRY, MD 21771
410-489-6640

### FUHR PROPERTY 5814 BELLANCA DRIVE

TAX MAP 37 GRID 11, PARCELS 0641 1st ELECTION DISTRICT HOWARD COUNTY, MARYLAND

ENVIRONMENTAL CONCEPT PLAN EXISTING CONDITIONS PLAN

NOVEMBER 2014 BEI PROJECT NO. 2646

AS SHOWN SHEET 1 OF 1