GENERAL NOTES

- THE PROJECT BOUNDARY IS BASED ON A FIELD RUN BOUNDARY SURVEY PREPARED BY ROBERT H. VOGEL ENGINEERING, INC. IN FEBRUARY 2010.
- THE TOPOGRAPHY SHOWN HEREON IS BASED ON HOWARD COUNTY GIS MAPPING
- WATER AND SEWER FOR THIS SITE WILL BE PROVIDED BY ONSITE WELL AND
- THIS PROJECT IS EXEMPT FROM Cpv STORM WATER MANAGEMENT SINCE THE SITE Pe IS LESS THAN 1".
- THIS SITE IS NOT LOCATED IN A HISTORIC DISTRICT.
- 6. THE 100-YEAR FLOODPLAIN ON THIS SITE IS NON-CRITICAL.
- THERE ARE NO CEMETERIES OR BURIAL SITES BELIEVED TO BE ON THIS PROPERTY.
- SUBJECT PROPERTY ZONED RC-DEO PER 2/02/04 COMPREHENSIVE ZONING PLAN AND AMENDED BY THE COMPREHENSIVE LITE AMENDMENT DATED 07/28/06.
- THIS PLAN IS SUBJECT TO THE AMENDED FIFTH EDITION OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS (COUNCIL BILL 45-2003). DEVELOPMENT OR CONSTRUCTION ON THESE LOTS MUST COMPLY WITH SETBACK AND BUFFER REGULATIONS IN EFFECT AT THE TIME OF SUBMISSION OF THE SITE DEVELOPMENT PLAN, WAIVER PETITION APPLICATION OR BUILDING/GRADING PERMIT.
- DRIVEWAY(S) SHALL BE PROVIDED PRIOR TO RESIDENTIAL OCCUPANCY TO INSURE SAFE ACCESS FOR FIRE AND EMERGENCY VEHICLES PER THE FOLLOWING MINIMUM REQUIREMENTS
- a) WIDTH-- 12 FEET (14 FEET SERVING MORE THAN ONE RESIDENCE). b) SURFACE - 6 INCHES OF COMPACTED CRUSHER RUN BASE WITH
- TAR AND CLIP COATING.
- c) GEOMETRY MAXIMUM 15% GRADE, MAXIMUM 10% CHANGE AND MINIMUM OF 45-FOOT DEPTH TURNING RADIUS. d) STRUCTURES (CULVERT/BRIDGES) - CAPABLE OF SUPPORTING 25
- GROSS TONS (H25 LOADING). e) DRAINAGE ELEMENTS-CAPABLE OF SAFELY PASSING 100-YEAR
- FLOOD WITH NO MORE THAN 1 FOOT DEPTH OVER DRIVEWAY
- f) STRUCTURE CLEARANCES-MINIMUM 12 FEET. q) MAINTENANCE - SUFFICIENT TO INSURE ALL WEATHER USE.
- DPZ FILE NUMBERS: WP-09-234
- STORM WATER MANAGEMENT ADDRESSED FOR SITE USING 2007 MARYLAND STORMWATER DESIGN MANUAL (CHAPTER 5).
- A. CHANNEL PROTECTION VOLUME (CPv) IS NOT REQUIRED (Pe FOR ENTIRE SITE IS UNDER 1.0")
- B. WATER QUALITY VOLUME (WQv) AND RECHARGE VOLUME (REV) TO BE PROVIDED BY ROOFTOP DISCONNECTS, NON-ROOFTOP DISCONNECTS AND SHEET FLOW TO CONSERVATION AREAS.
- WHICH CREDIT IS BEING TAKEN, HOWEVER, LANDSCAPE MAINTENANCE IS AUTHORIZED. SHOULD ANY TREE DESIGNATED FOR PRESERVATION, FOR WHICH CREDIT IS GIVEN, DIE PRIOR TO RELEASE OF BONDS, THE OWNER WILL BE REQUIRED TO REPLACE THE TREE WITH THE EQUIVALENT SPECIES OR WITH A TREE WHICH WILL OBTAIN THE SAME HEIGHT.

SPREAD AND GROWTH CHARACTERISTICS. THE REPLACEMENT TREE MUST BE A MINIMUM OF

NO CLEARING OF EXISTING VEGETATION IS PERMITTED WITHIN THE LANDSCAPE EDGE FOR

- A FOREST STAND DELINEATION WAS PERFORMED BY ROBERT H. VOGEL ENGINEERING, INC., DATED AUGUST 2010. FOREST CONSERVATION REQUIREMENTS PER SECTION 16.1202 OF THE HOWARD COUNTY CODE AND THE FOREST CONSERVATION MANUAL SHALL BE COMPLIED WITH.
- 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.

3 INCHES IN CALIPER AND INSTALLED A REQUIRED IN THE LANDSCAPE MANUAL.

SOILS LEGEND						
SYMBOL	NAME / DESCRIPTION					
Со	CODORUS AND HATBORO SILT LOAM, O TO 3 PERCENT SLOPES	С				
GaC	GAILA LOAM, 8 TO 15 PERCENT SLOPES	В				
GgA	GLENELG LOAM, 0 TO 3 PERCENT SLOPES	В				
GgB	GLENELG LOAM, 3 TO 8 PERCENT SLOPES	В				
GgC	GLENELG LOAM, 8 TO 15 PERCENT SLOPES	В				
GmB	GLENVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES	С				
MaD	MANOR LOAM, 15 TO 25 PERCENT SLOPES	В				
McD	MANOR LOAM, 15 TO 25 PERCENT SLOPES. VERY ROCKY	В				

MKF MANOR-BRINKLOW COMPLEX, 25 TO 65 PERCENT SLOPES, VERY ROCKY

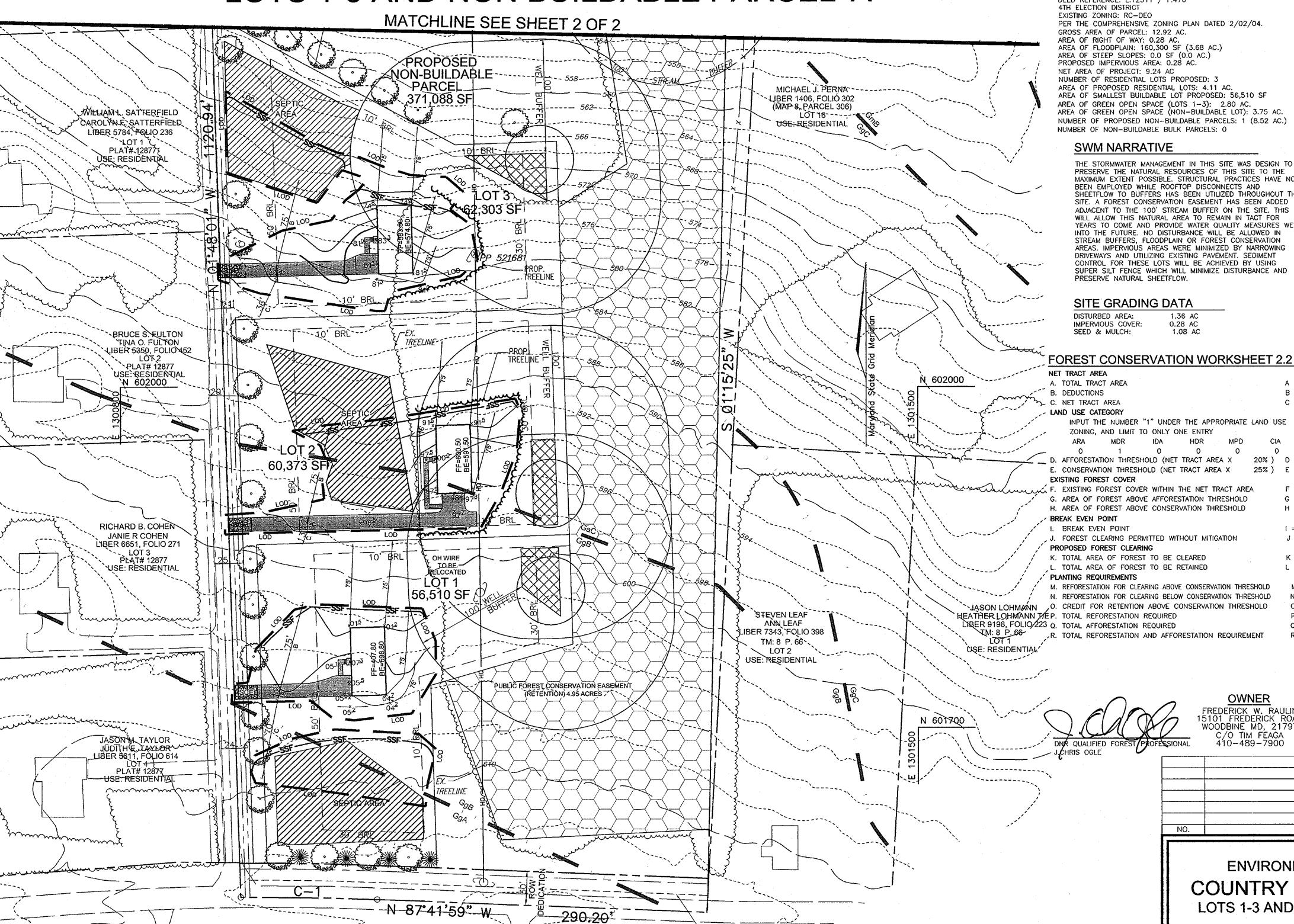
	SWM PRACTICES							
LOT	SWM REQUIREMENT	ROOFTOP DISCONNECT	NON-ROOFTOP DISCONNECT	SHEETFLOW TO CONSERVATION AREA				
1	Pe=1.0"	4 AT 75' (1.0" Pe CREDIT)	DRIVEWAY B/A=6.25 B/C=1.1 (1.0" Pe CREDIT)	N/A				
2	Pe=1.0"	4 AT 75' (1.0" Pe CREDIT)		N/A				
3	Pe=1.0"	4 AT 75' (1.0" Pe CREDIT)	DRIVEWAY B/A=6.25 B/C=2.1 (1.0" Pe CREDIT)	DRIVEWAY & ROOFTON ADDITIONAL TREATMEN				
Α	N/A	N/A	N/A	N/A				

SPECIMEN TREE CHART						
NO.	SIZE	TYPE	CONDITION			
ST1	36 DBH	OAK	GOOD			
212	48" DRH	MADIF	COOD			

FOREST STAND ANALYSIS TABLE

	TOTAL OTTAL TOTAL TARGET									
KEY	A. TYPE OF COMMUNITY	B. AREA	so	C. SOILS INFORMATION		D. EXISTING VEGETATION STAN	STAND C	E. ND CHARACTERISTICS		F. SEN. ENV AREA IN FOREST
			1. 2. 3. SOILS TYPICAL WOODLAND SUITABILITY COVER FOR SOILS TYPE		1. SIZE (DIA)	2. AGE (YRS)	3. GENERAL CONDITION			
F1	TREES, WETLANDS, STREAMS	6.40 Ac	Co GmB GaC GgB	MIXED HARDWOODS	4 57 58 58	OAK, MABLE FEW SPRUCE PINES	6"-16"	15	FAIR	0.8 Ac WETLANDS
OF1	TREES, TALL GRASSES	6.23 Ac	Co GmB GaC GgB	N/A	4 57 58 58	N/A	N/A	N/A	·N/A	N/A

ENVIRONMENTAL CONCEPT PLAN COUNTRY SPRINGS OVERLOOK LOTS 1-3 AND NON BUILDABLE PARCEL 'A'



--- EASEMENT

DESCRIPTION

CURVE ARC RADIUS DELTA

ENVIRONMENTAL CONCEPT PLAN

SWM DETAILS AND SIGHT DISTANCE

SHEET INDEX

CURVE TABLE

119.73' 2,472.66' 2*46'28" N 89'05'40"W

BUSHY PARK ROAD

PUBLIC LOCAL ROAD

POSTED SPEED 30 MPH 85th PERCENTILE SPEED 45 MPH

BENCHMARKS

HOWARD COUNTY BENCHMARK 08GC (CONC. MON.) N 601441.4011 E 1299254.0293 ELEV. 566.459 HOWARD COUNTY BENCHMARK 08H5 (CONC. MON.) N 601562.5734 E 1301087.2596 ELEV. 612.279

SITE DATA

LOCATION: TAX MAP 8 PARCEL 59 DEED REFERENCE: L.12511 / F.476 4TH ELECTION DISTRICT EXISTING ZONING: RC-DEO PER THE COMPREHENSIVE ZONING PLAN DATED 2/02/04. GROSS AREA OF PARCEL: 12.92 AC. AREA OF RIGHT OF WAY: 0.28 AC. AREA OF FLOODPLAIN: 160,300 SF (3.68 AC.) AREA OF STEEP SLOPES: 0.0 SF (0.0 AC.) PROPOSED IMPERVIOUS AREA: 0.28 AC. NET AREA OF PROJECT: 9.24 AC NUMBER OF RESIDENTIAL LOTS PROPOSED: 3

AREA OF PROPOSED RESIDENTIAL LOTS: 4.11 AC. AREA OF SMALLEST BUILDABLE LOT PROPOSED: 56,510 SF AREA OF GREEN OPEN SPACE (LOTS 1-3): 2.80 AC. AREA OF GREEN OPEN SPACE (NON-BUILDABLE LOT): 3.75 AC. NUMBER OF PROPOSED NON-BUILDABLE PARCELS: 1 (8.52 AC.)

SWM NARRATIVE

PRESERVE THE NATURAL RESOURCES OF THIS SITE TO THE MAXIMUM EXTENT POSSIBLE. STRUCTURAL PRACTICES HAVE NOT BEEN EMPLOYED WHILE ROOFTOP DISCONNECTS AND SHEETFLOW TO BUFFERS HAS BEEN UTILIZED THROUGHOUT THE SITE. A FOREST CONSERVATION EASEMENT HAS BEEN ADDED ADJACENT TO THE 100' STREAM BUFFER ON THE SITE. THIS WILL ALLOW THIS NATURAL AREA TO REMAIN IN TACT FOR YEARS TO COME AND PROVIDE WATER QUALITY MEASURES WELL INTO THE FUTURE, NO DISTURBANCE WILL BE ALLOWED IN STREAM BUFFERS, FLOODPLAIN OR FOREST CONSERVATION AREAS. IMPERVIOUS AREAS WERE MINIMIZED BY NARROWING DRIVEWAYS AND UTILIZING EXISTING PAVEMENT. SEDIMENT CONTROL FOR THESE LOTS WILL BE ACHIEVED BY USING SUPER SILT FENCE WHICH WILL MINIMIZE DISTURBANCE AND PRESERVE NATURAL SHEETFLOW.

SITE GRADING DATA

DISTURBED AREA: IMPERVIOUS COVER: 0.28 AC SEED & MULCH:

FOREST CONSERVATION WORKSHEET 2.2

B = 3.68 ACC. NET TRACT AREA C = 9.24 ACINPUT THE NUMBER "1" UNDER THE APPROPRIATE LAND USE ZONING, AND LIMIT TO ONLY ONE ENTRY AFFORESTATION THRESHOLD (NET TRACT AREA X 20%) D = 1.85 AC E. CONSERVATION THRESHOLD (NET TRACT AREA X 25%) E = 2.31 AC EXISTING FOREST COVER F = 6.40 ACF. EXISTING FOREST COVER WITHIN THE NET TRACT AREA G. AREA OF FOREST ABOVE AFFORESTATION THRESHOLD G = 4.55 ACH. AREA OF FOREST ABOVE CONSERVATION THRESHOLD H = 4.09 AC

BREAK EVEN POINT I = 3.13 ACFOREST CLEARING PERMITTED WITHOUT MITIGATION J = 3.27 ACPROPOSED FOREST CLEARING K = 1.45 ACK. TOTAL AREA OF FOREST TO BE CLEARED L = 4.95 ACTOTAL AREA OF FOREST TO BE RETAINED PLANTING REQUIREMENTS M = 0.36M. REFORESTATION FOR CLEARING ABOVE CONSERVATION THRESHOLD

N. REFORESTATION FOR CLEARING BELOW CONSERVATION THRESHOLD JASON LOHMANN ,O. CREDIT FOR RETENTION ABOVE CONSERVATION THRESHOLD P = 0.00Q = 0.00TM: 8 P.66 , R. TOTAL REFORESTATION AND AFFORESTATION REQUIREMENT R = 0.00

> OWNER 01 FREDERICK ROAD WOODBINE MD, 21797

C/O TIM FEAGA 410-489-7900

DEVELOPER HERITAGE REALTY SERVICES 15950 NORTH AVENUE P.O. BOX 482 LISBON, MD 21765

410-489-7900

VICINITY MAP

SCALE: 1"=2,000'

LEGEND

__0__

A = 12.92 AC

ADC MAP COORDINATE: 4692 E 9/10

----- RIGHT-OF-WAY LINE

----- ADJACENT BOUNDARY LIN

EXISTING UTILITY POLE

PROPOSED PAVEMENT

CLEANWATER DIKE/SWALE

FLOODPLAIN AREA

LIMIT OF DISTURBANCE

EXISTING SIGN

———— BOUNDARY LINE

- -202 -- EXISTING CONTOUR

..... EXISTING TREELINE

SOILS

SEPTIC AREA

----OH------ OVERHEAD WIRES

WELL AREA

PROPOSED TREELINE

ENVIRONMENTAL CONCEPT PLAN COUNTRY SPRINGS OVERLOOK LOTS 1-3 AND NON BUILDABLE PARCEL 'A'

REVISION

TAX MAP 8 BLOCK 21 4TH ELECTION DISTRICT

SITE ANALYSIS DATA

12.92 AC. 0.00 AC.

4.16 AC 3.50 AC

4.95 AC

3.68 AC

GROSS AREA OF PARCEL: AREA OF STEEP SLOPES:

AREA OF FLOODPLAIN:

SENSITIVE LAND: NET AREA OF PROJECT:

DIVISION CHIEF, LAND DEVELOPMENT

SHEET NO

1 OF 2

2 OF 2

LENGTH

119.73

CHORD

AREA OF STREAM BUFFER:

AREA OF WETLANDS & BUFFER:

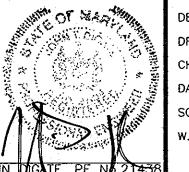
AREA OF FOREST CONSERVATION:

*TOTAL AREA OF ENVIRONMENTALLY

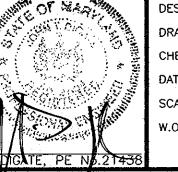
*NOTE: THE TOTAL AREA OF ENVIRONMENTALLY SENSITIVE LAND IS THE OVERLAPPING AREA OF WETLANDS, FLOODPLAIN,

STREAM BUFFER AND FOREST CONSEVATION COMBINED.
MOST OF THESE AREAS OCCUPY THE SAME GROUND AND
SHOULD NOT BE COUNTED MORE THAN ONCE, SO THE
OUTER LIMITS OF ALL AREAS WAS USED.

ROBERT H. VOGEL NGINEERING, INC.

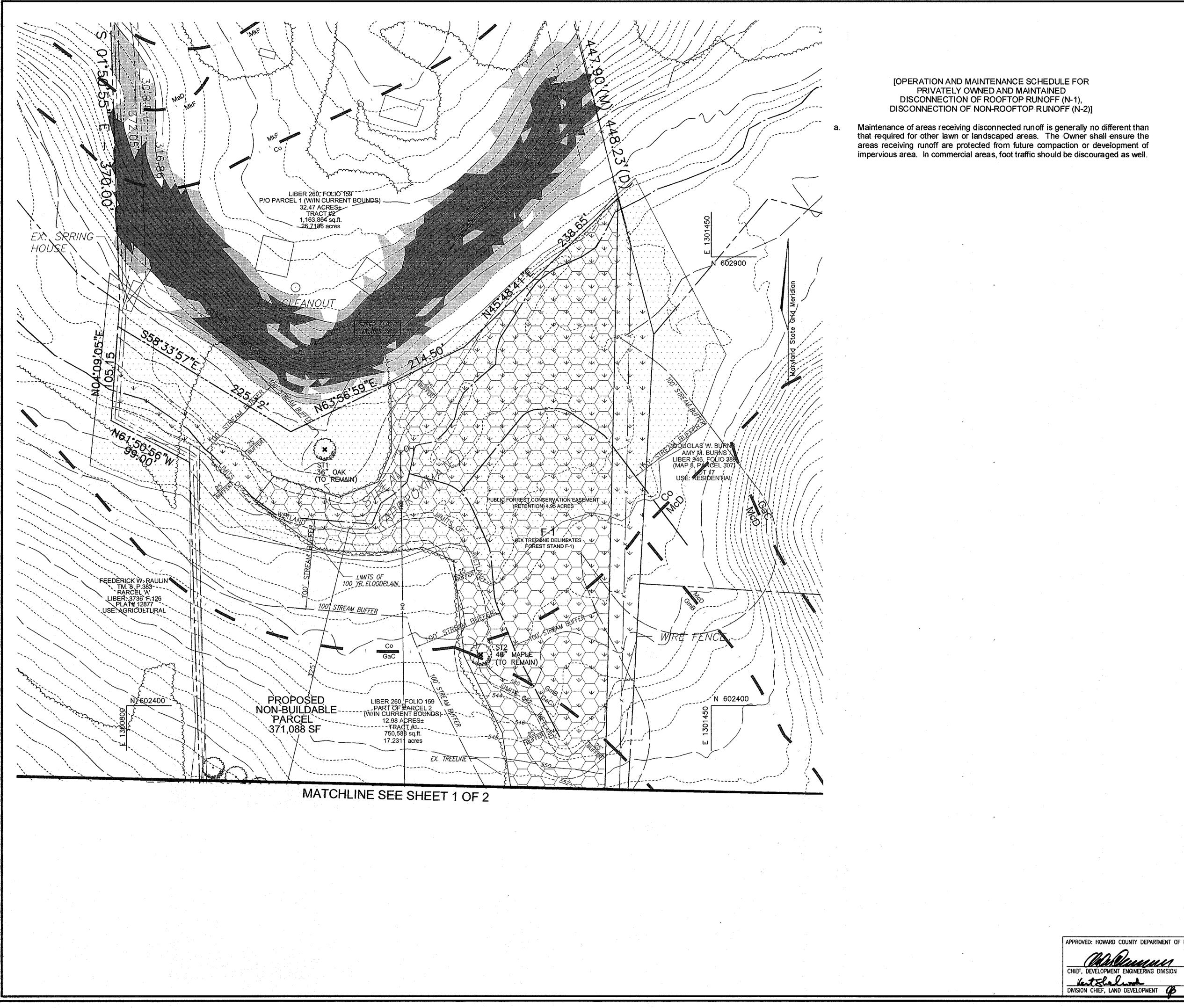


8407 Main Street Tel: 410.461.7666 ELLICOTT CITY, MD 21043 FAX: 410.461.8961 PROFESSIONAL CERTIFICATE I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNIDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21438 EXPIRATION DATE: 12-16-2012.



CHECKED BY:

HOWARD COUNTY, MARYLAND



areas receiving runoff are protected from future compaction or development of impervious area. In commercial areas, foot traffic should be discouraged as well.

