

**DESIGN NARRATIVE**

**Environmental Site Design Strategies and Practices**

After examination of the site fingerprinting the CSWMP and future final design intends to incorporate the Environmental Site Design ("ESD") strategies and practices to the maximum extent practicable ("MEP"). We note the following "Better Site Design Techniques" that are incorporated as ESD's for this project design:

- a. The use of level spreaders for sheet flow to conservation area. (House and driveways)
- b. The use of Non-Rooftop disconnect. (Use-in-common driveway)
- c. Rooftop disconnect by use of drywell. (House)

These ESD's satisfy the intent of the SWM criteria to the MEP by:

- acknowledging and retaining the NRA;
- mimicking as closely as possible, the natural flow paths;
- reducing impervious areas; and
- utilizing low-impact ESD's.

**Natural Resource Protection**

Natural resource protection and enhancement is being achieved by minimizing the disturbance for each lot. In addition, the existing woods on the east side of the site are being preserved by providing a forest conservation easement greater than 50 feet wide. The use of the level spreaders will maintain the natural flow of the water into the easement/buffer area.

**Natural Flow Patterns**

Natural flow patterns are being maintained by use of non-rooftop disconnect for the 6' widening of the entrance driveway and by providing level spreaders on the proposed lots to achieve sheet flow to the conservation area. In addition, a drywell will be used to achieve rooftop runoff disconnect for half the house on Lot 1.

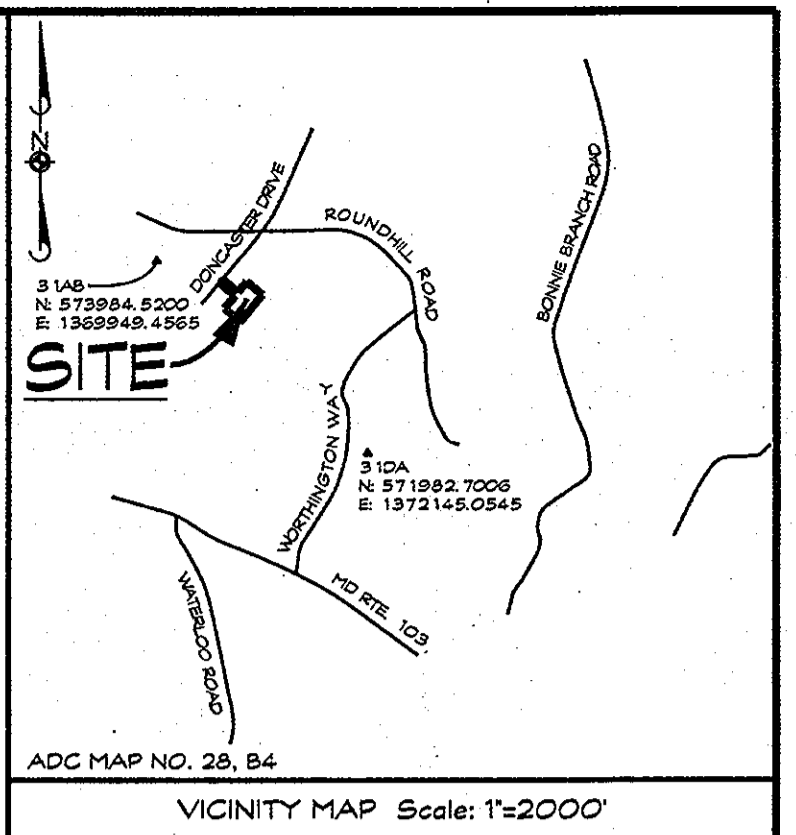
**Integration of Erosion and Sediment Control into SWM Strategy**

Sediment control is being provided by use of stabilized construction entrance at each proposed driveway and by use of silt fence. The silt fence works as a level spreader in the interim during construction prior to the site being stabilized. Once site is stabilized the level spreaders will be constructed and silt fence removed.

**ESD Planning Techniques and Practices**

The following are proposed design techniques being used to achieve implementation of ESD planning techniques and practices for this site:

- Lot 1: Prop. Treatment = N-3: Level Spreader (Sheet Flow to Conservation Area) driveway and 1/2 the house.  
M-5: Drywell (Rooftop disconnect) 1/2 the house.
- Lot 2: Prop. Treatment = N-2: Non-Rooftop disconnect for the proposed 6' widening of the entrance drive.
- Lot 3: Prop. Treatment = N-3: Level Spreader (Sheet Flow to Conservation Area) for the house and driveway.



**GENERAL NOTES**

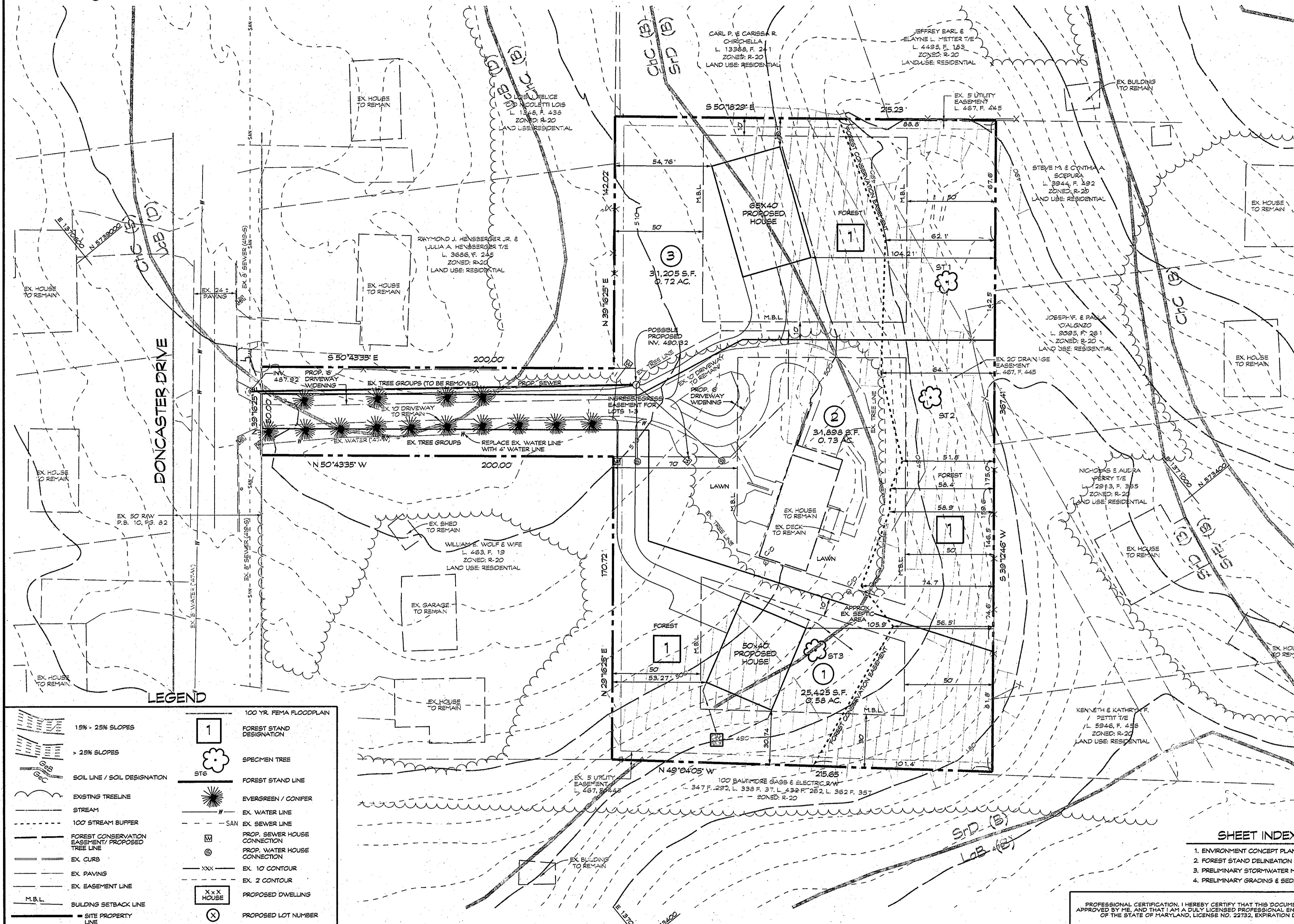
1. CURRENT TITLE REFERENCE  
OWNER: PATRICIA A. KING  
DEED REFERENCE: LIBER 1295 FOLIO 457  
DATE: OCTOBER 23, 1984  
GRANTOR: GEORGE KRUPINSKY, JR. & WIFE  
THE OUTLINE SHOWN HEREON IS BASED ON DEED INFORMATION ONLY AND DOES NOT WARRANT A FIELD RUN SURVEY.
2. THE TOPOGRAPHY SHOWN HEREON IS BASED ON A FIELD RUN SURVEY BY CLSI AND HOWARD COUNTY GIS.
3. THERE ARE NO INTERMITTENT OR PERENNIAL STREAMS OR WETLANDS ON SITE PER MAR-LEN ENVIRONMENTAL'S SITE REVIEW.
4. THE SUBJECT PROPERTY IS ZONED R-20 PER THE 02-02-04 COMPREHENSIVE ZONING PLAN AND PER THE "CONY LITE" ZONING AMENDMENTS EFFECTIVE ON 07/28/06. THIS PROJECT IS SUBJECT TO THE AMENDED FIFTH SUBDIVISION AND LAND DEVELOPMENT REGULATIONS AND ZONING REGULATIONS EFFECTIVE APRIL 13, 2004.
5. A WAIVER PETITION WILL BE REQUIRED FOR A REMOVAL OF ANY SPECIMEN TREES BEFORE A SITE DEVELOPMENT PLAN CAN BE APPROVED.
6. APPROVAL OF THIS ECP DOES NOT CONSTITUTE AN APPROVAL AND/OR SITE DEVELOPMENT PLAN.
7. FOREST CONSERVATION WILL BE ADDRESSED BY PURCHASING INTO AN OFF-SITE FOREST BANK OR BY PAYING A FEE IN LIEU OF.

**DATA TABULATIONS**

1. ZONING DISTRICT: R20.000
2. SOILS MAP NO.: NVA, NRCS SOIL INFO
3. AREA OF LOTS: 2.03 AC.
4. TOTAL NET TRACT AREA OF PLAN: 2.03 AC.

**SITE ANALYSIS DATA SHEET**

AREA OF WETLANDS:	0 AC.
AREA OF WETLANDS BUFFER:	0 AC.
AREA OF FLOODPLAIN:	0 AC.
AREA OF FLOODPLAIN BUFFER:	0 AC.
AREA OF EXISTING FOREST:	1.66 AC.
AREA OF FOREST TO REMAIN:	0.53 AC.
AREA OF STEEP SLOPES:	
25% OR GREATER:	0.11 AC.
15% - 25%:	0.58 AC.
AREA OF ERODIBLE SOIL AREA:	1.94 AC.
AREA OF LIMIT OF DISTURBANCE:	0.72 AC.
AREA OF EXISTING IMPERVIOUS:	0.20 AC.
AREA OF PROPOSED IMPERVIOUS:	0.22 AC.
TOTAL AREA OF IMPERVIOUS:	0.42 AC.
AREA OF GREEN OPEN AREA:	C 36 AC.
TOTAL AREA OF PROPOSED RESIDENTIAL USE:	1.45 AC.
TOTAL AREA OF SITE:	2.03 AC.



**LEGEND**

	15% - 25% SLOPES		100 YR. FEMA FLOODPLAIN
	> 25% SLOPES		SPECIMEN TREE
	SOIL LINE / SOIL DESIGNATION		FOREST STAND LINE
	EXISTING TREELINE		EVERGREEN / CONIFER
	STREAM		EX. WATER LINE
	100' STREAM BUFFER		SAN
	FOREST CONSERVATION EASEMENT/PROPOSED TREE LINE		PROP. SEWER HOUSE CONNECTION
	EX. CURB		PROP. WATER HOUSE CONNECTION
	EX. PAVING		EX. 10' CONTOUR
	EX. EASEMENT LINE		EX. 2' CONTOUR
	M.B.L.		PROPOSED DWELLING
	BUILDING SETBACK LINE		PROPOSED LOT NUMBER
	SITE PROPERTY LINE		

**ENGINEER CERTIFICATE**

I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

SIGNED: *David E. Booth Jr.* DATE: *Apr 17, 2013*  
 DAVID E. BOOTH JR., PROFESSIONAL ENGINEER REG. NO. 22732

**DEVELOPER'S CERTIFICATION FOR SEDIMENT AND EROSION CONTROL**

I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY.

SIGNED: *Matthew Shanley* DATE: *April 20, 2013*  
 PRINTED: *Matthew S. Shanley*

**SOILS CHART**

SOIL SERIES	HYDROLOGIC SOIL GROUP	ERODIBLE (K-factor > 3.5)	HYDRIC
CHILLUM-RUSSET	B	+	-
SASSARFRAS AND CROOM	B	+	-
URBAN LAND-CHILLUM-BELTSVILLE	D	+	-

**SHEET INDEX**

1. ENVIRONMENT CONCEPT PLAN
2. FOREST STAND DELINEATION PLAN
3. PRELIMINARY STORM-WATER MANAGEMENT PLAN
4. PRELIMINARY GRADING & SEDIMENT CONTROL PLAN

**PROFESSIONAL CERTIFICATION**

I HEREBY CERTIFY THAT THIS DOCUMENT WAS PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 22732, EXPIRATION DATE: JUNE 5, 2014

*David E. Booth Jr., P.E.*

DATE	REVISION	BY

**ADDRESS CHART**

LOT NO.	STREET ADDRESS
28	4633 DONCASTER DRIVE ELLCOTT CITY, MD 21043

**PERMIT INFORMATION CHART**

SUBDIVISION NAME	SECTION/AREA	LOT / PARCEL NO.
ELLCOTT WOODS		28/22

PLAT NO.	BLOCK NO.	ZONE	TAX MAP NO.	ELECT. DISTR.	CENSUS TRACT
2647	8	R-20	31	2nd	602700

**ENVIRONMENTAL CONCEPT PLAN**

**ELLCOTT WOODS**

RESUBDIVISION OF LOT 28. LOTS 1, 2 & 3

DEED REFERENCE: 1295/457  
 TAX MAP: 31 BLOCK: 8 PARCEL: 22  
 2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND

SCALE: 1"=30'    DATE: AUG., 2012    SHEET: 1 OF 4

RELATED DPZ FILE NUMBERS:

**HOWARD COUNTY FILES**

WATER CONTRACT NO. 147-W  
 SEWER CONTRACT NO. 419-S

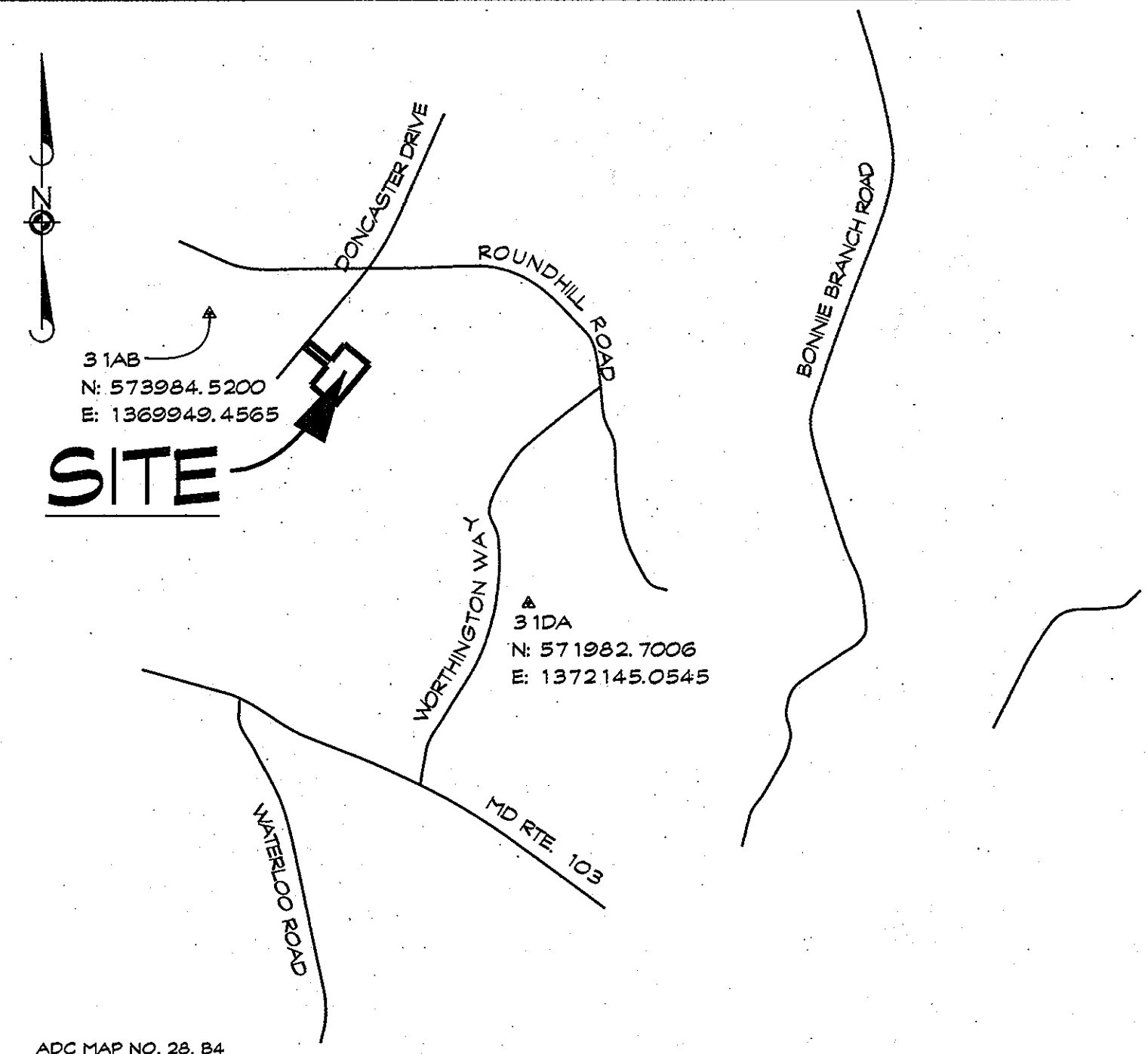
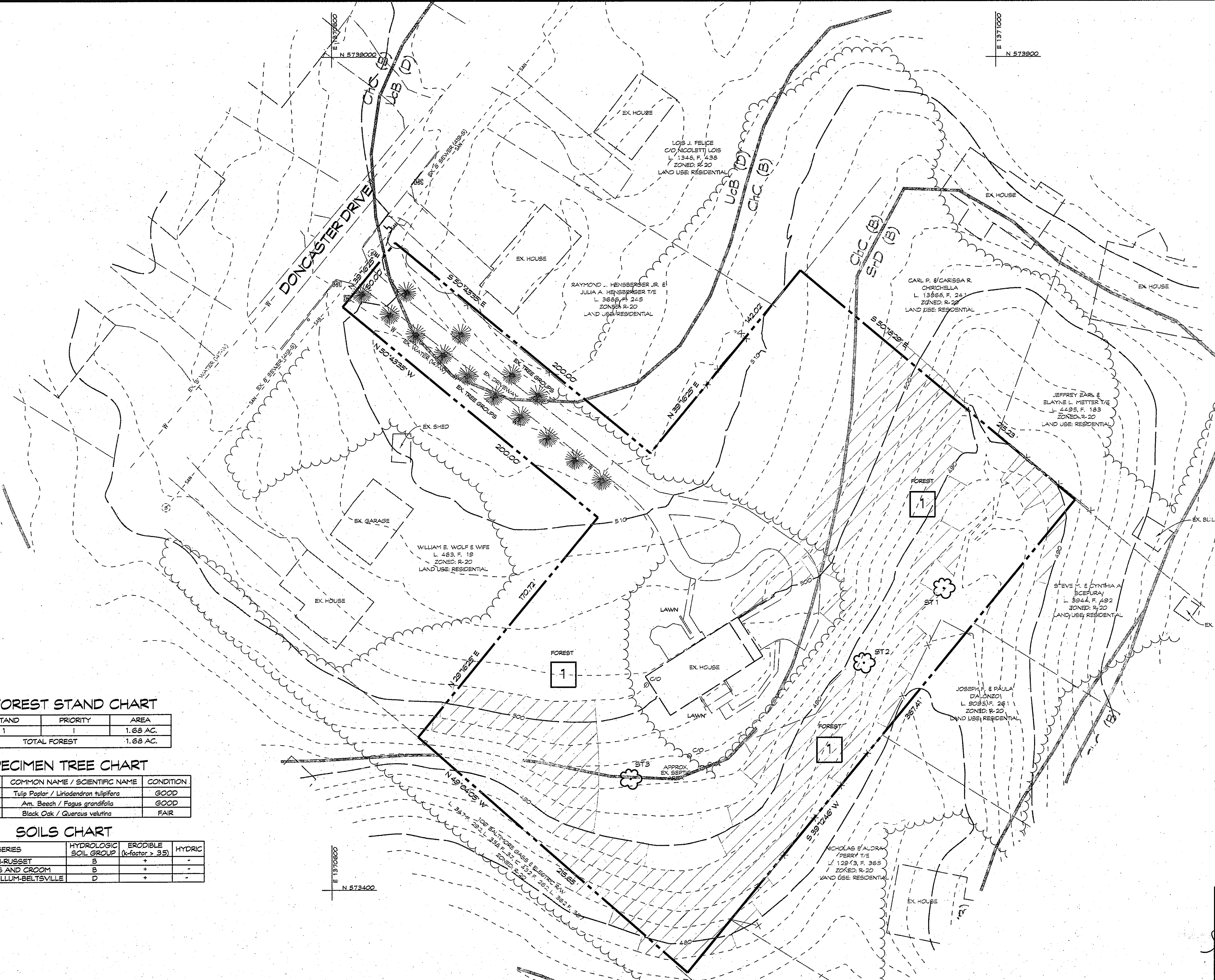
OWNER/DEVELOPER  
 MATTHEW SHANLEY  
 8048 HILLSBOROUGH ROAD  
 ELLCOTT CITY, MD 21043  
 (443) 766-1583

Engineers - Surveyors  
**CLSI**  
 Land Planning & Environmental Consulting  
 www.clsi-civileng.com  
 439 East Main Street Westminster, MD 21157-5539  
 (410) 848-1790 FAX (410) 848-1791

Surveyed By: CLSI    Drawn By: BM  
 Computed By: DLA    Checked By: LGD

CAD Drawing File Name:

AS PER MARYLAND REGULATIONS (16.06) (16.07) (16.08) (16.09) (16.10) (16.11) (16.12) (16.13) (16.14) (16.15) (16.16) (16.17) (16.18) (16.19) (16.20) (16.21) (16.22) (16.23) (16.24) (16.25) (16.26) (16.27) (16.28) (16.29) (16.30) (16.31) (16.32) (16.33) (16.34) (16.35) (16.36) (16.37) (16.38) (16.39) (16.40) (16.41) (16.42) (16.43) (16.44) (16.45) (16.46) (16.47) (16.48) (16.49) (16.50) (16.51) (16.52) (16.53) (16.54) (16.55) (16.56) (16.57) (16.58) (16.59) (16.60) (16.61) (16.62) (16.63) (16.64) (16.65) (16.66) (16.67) (16.68) (16.69) (16.70) (16.71) (16.72) (16.73) (16.74) (16.75) (16.76) (16.77) (16.78) (16.79) (16.80) (16.81) (16.82) (16.83) (16.84) (16.85) (16.86) (16.87) (16.88) (16.89) (16.90) (16.91) (16.92) (16.93) (16.94) (16.95) (16.96) (16.97) (16.98) (16.99) (17.00)



**FOREST STAND CHART**

STAND	PRIORITY	AREA
1	1	1.68 AC.
TOTAL FOREST		1.68 AC.

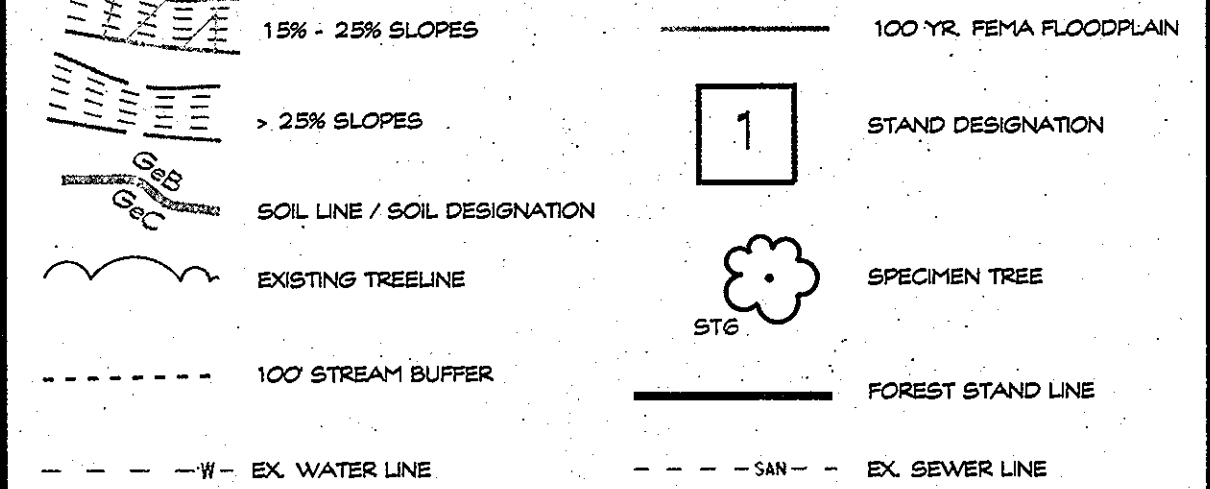
**SPECIMEN TREE CHART**

NO.	D.B.H.	COMMON NAME / SCIENTIFIC NAME	CONDITION
1	33.3"	Tulip Poplar / Liriodendron tulipifera	GOOD
2	31.4"	Am. Beech / Fagus grandifolia	GOOD
3	30.0"	Black Oak / Quercus velutina	FAIR

**SOILS CHART**

SOIL SERIES	HYDROLOGIC SOIL GROUP	ERODIBLE (k-factor > 35)	HYDRIC
CHILLUM-RUSSET	B	+	-
SASSARFRAS AND CROOM	B	+	-
URBAN LAND-CHILLUM-BELTSVILLE	D	+	-

**LEGEND**



APPROVED: DEPARTMENT OF PLANNING AND ZONING

*[Signature]* 5/21/13  
 DATE

*[Signature]* 5/14/13  
 DATE

**ENVIRONMENTAL SITE NOTES**

1. WATERSHED DRAINAGE BASIN:
2. SOILS SHOWN ARE FROM NRCS SOIL SURVEY FOR HOWARD COUNTY.
3. NO RARE, THREATENED OR ENDANGERED PLANT, ANIMAL SPECIES OR HABITAT WERE OBSERVED DURING THE SITE VISIT.
4. THERE ARE NO EXISTING STREAMS OR STREAM BUFFERS ON THIS PROPERTY.
5. THIS SITE IS WITHIN THE \_\_\_\_\_

**DATA TABULATIONS**

1. ZONING DISTRICT: R-20,000
2. SOILS MAP NO.: N/A, NRCS SOIL INFO
3. AREA OF LOTS: 2.03 AC.
4. TOTAL NET TRACT AREA OF PLAN: 2.03 AC.

**GENERAL NOTES**

1. CURRENT TITLE REFERENCE  
 OWNER: PATRICIA A. KING  
 DEED REFERENCE: LIBER 1295 FOLIO 457  
 DATE: OCTOBER 23, 1984  
 GRANTOR: GEORGE KRUPINSKY, JR. & WIFE
2. THE OUTLINE SHOWN HEREON IS BASED ON DEED INFORMATION ONLY AND DOES NOT WARRANT A FIELD RUN SURVEY.
3. THE TOPOGRAPHY SHOWN HEREON IS BASED ON A FIELD RUN SURVEY BY CLSI AND HOWARD COUNTY GIS.

**ADDRESS CHART**

LOT NO.	STREET ADDRESS
28	4633 DONCASTER DRIVE ELLICOTT CITY, MD 21043

**PERMIT INFORMATION CHART**

SUBDIVISION NAME	SECTION/AREA	LOT / PARCEL NO.			
ELLICOTT WOODS		28/22			
PLAT NO.	BLOCK NO.	ZONE	TAX MAP NO.	ELECT. DISTR.	CENSUS TRACT
2647	8	R-20	31	2nd	602700

**FOREST STAND DELINEATION PLAN**

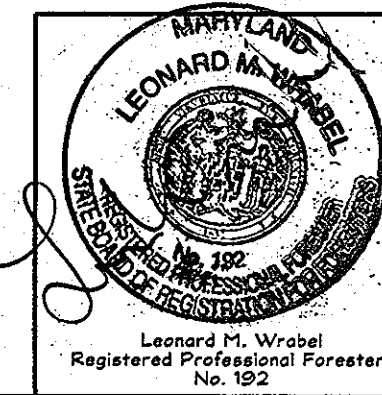
**ELLICOTT WOODS**

RESUBDIVISION OF LOT 28, LOTS 1, 2 & 3

DEED REFERENCE: 1295/457  
 TAX MAP: 31 BLOCK: 8 PARCEL: 22  
 2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND

SCALE: 1"=30' DATE: AUG., 2012 SHEET: 2 OF 4

RELATED DPZ FILE NUMBERS:



439 East Main Street Westminster, MD 21157-5539  
 (410) 848-1790 FAX (410) 848-1791

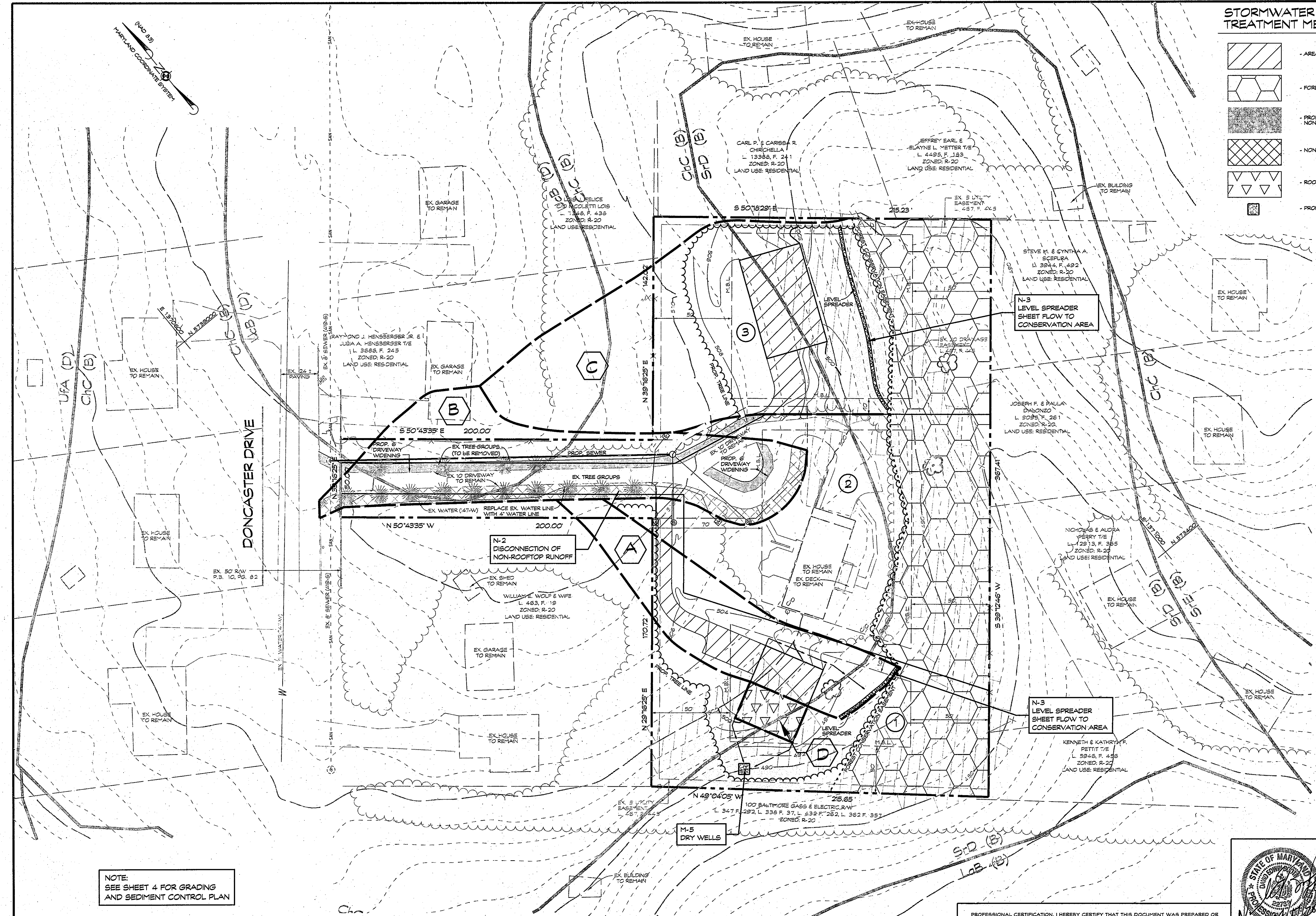
Surveyed By: CLSI Drawn By: BM  
 Computed By: DLA Checked By: LGD

**HOWARD COUNTY FILES**

WATER CONTRACT NO. 147-W  
 SEWER CONTRACT NO. 419-S

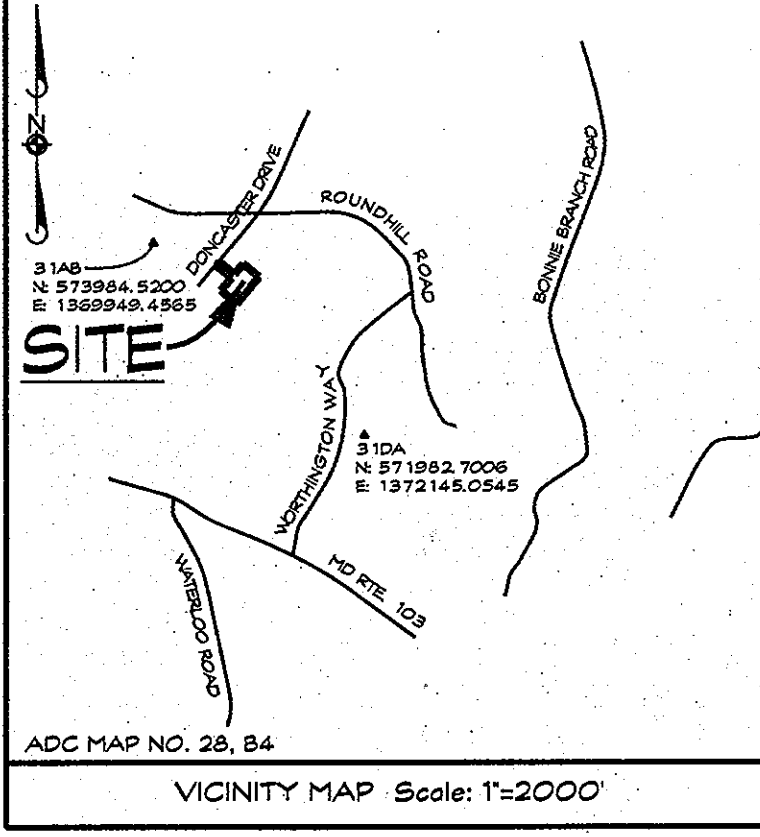
**OWNER/ DEVELOPER**

MATTHEW SHANLEY  
 8048 HILLSBOROUGH ROAD  
 ELLICOTT CITY, MD 21043  
 (443) 786-1583



**STORMWATER MANAGEMENT TREATMENT METHOD LEGEND**

- AREA TREATED BY LEVEL SPREADERS
- FOREST CONSERVATION EASEMENT AREA
- PROPOSED IMPERVIOUS AREA TO NON-ROOFTOP DISCONNECT
- NON-ROOFTOP DISCONNECT AREA
- ROOFTOP DISCONNECT AREA
- PROPOSED DRYWELL



**DATA SUMMARY:**

TOTAL AREA OF SITE = 2.03 AC.  
D SOIL = 0.093 AC.  
B SOIL = 1.939 AC.

**LOT 1:**  
PROP. DRIVEWAY = 1769 S.F. OR 0.04 AC.  
PROP. HOUSE = 2000 S.F. OR 0.05 AC.  
PROP. TREATMENT = N-3 LEVEL SPREADER (SHEET FLOW TO CONSERVATION AREA) DRIVEWAY AND 1/2 THE HOUSE.  
M-5 DRYWELL (ROOFTOP DISCONNECT) 1/2 THE HOUSE.  
A = DRAINAGE AREA TO LEVEL SPREADER ON LOT 1  
D = DRAINAGE AREA TO DRYWELL ON LOT 1

**LOT 2:**  
THE EX. DRIVEWAY WILL BE WIDENED 6' AND USED AS A USE-IN-COMMON DRIVEWAY FOR ALL THREE LOTS.  
PROP. DRIVEWAY = 1511 S.F. OR 0.03 AC.  
PROP. TREATMENT = N-3 LEVEL SPREADER (SHEET FLOW TO CONSERVATION AREA) FOR THE HOUSE AND DRIVEWAY.  
B = DRAINAGE AREA TO LEVEL SPREADER ON LOT 2

**LOT 3:**  
PROP. DRIVEWAY = 914 S.F. OR 0.02 AC.  
PROP. HOUSE = 2800 S.F. OR 0.06 AC.  
PROP. TREATMENT = N-3 LEVEL SPREADER (SHEET FLOW TO CONSERVATION AREA) FOR THE HOUSE AND DRIVEWAY.  
C = DRAINAGE AREA TO LEVEL SPREADER ON LOT 3

**LEGEND**

- 15% - 25% SLOPES
- > 25% SLOPES
- SOIL LINE / SOIL DESIGNATION
- EXISTING TREELINE
- 100' STREAM BUFFER
- FOREST CONSERVATION EASEMENT / PROPOSED TREE LINE
- EX. CURB
- EX. PAVING
- EX. EASEMENT LINE
- BUILDING SETBACK LINE
- SITE PROPERTY LINE
- 100 YR. FEMA FLOODPLAIN
- FOREST STAND DESIGNATION
- SPECIMEN TREE
- FOREST STAND LINE
- EVERGREEN / CONIFER
- EX. WATER LINE
- EX. SAN
- PROP. SEWER HOUSE CONNECTION
- PROP. WATER HOUSE CONNECTION
- EX. 10' CONTOUR
- EX. 2' CONTOUR
- EX. HOUSE
- PROPOSED DWELLING
- PROPOSED LOT NUMBER

DATE	REVISION	BY

**ADDRESS CHART**

LOT NO.	STREET ADDRESS
28	4633 DONCASTER DRIVE ELlicOTT CITY, MD 21043

**PERMIT INFORMATION CHART**

SUBDIVISION NAME	SECTION/AREA	LOT / PARCEL NO.			
ELlicOTT WOODS		28/22			
PLAT NO.	BLOCK NO.	ZONE	TAX MAP NO.	ELECT. DISTR.	CENSUS TRACT
2847	8	R-20	31	2nd	602700

**PRELIMINARY STORMWATER MANAGEMENT PLAN**

**ELlicOTT WOODS**

RESUBDIVISION OF LOT 28, LOTS 1, 2 & 3

DEED REFERENCE: 1295/457  
TAX MAP: 31 BLOCK: 8 PARCEL: 22  
2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND

SCALE: 1"=30'    DATE: AUG., 2012    SHEET: 3 OF 4

RELATED DPZ FILE NUMBERS:

NOTE:  
SEE SHEET 4 FOR GRADING  
AND SEDIMENT CONTROL PLAN

APPROVED: DEPARTMENT OF PLANNING AND ZONING

*David E. Booth Jr.*  
5/21/13  
DATE

*Keith Shearlock*  
5/14/13  
DATE

**ENGINEER CERTIFICATE**

I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

SIGNED: *David E. Booth Jr.*    DATE: *April 17, 2013*  
DAVID E. BOOTH JR.  
PROFESSIONAL ENGINEER REG. NO. 22732

**DEVELOPER'S CERTIFICATION FOR SEDIMENT AND EROSION CONTROL**

I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY.

SIGNED: *Matthew Shanley*    DATE: *April 21, 2013*  
PRINTED: *Matthew Shanley*

**SOILS CHART**

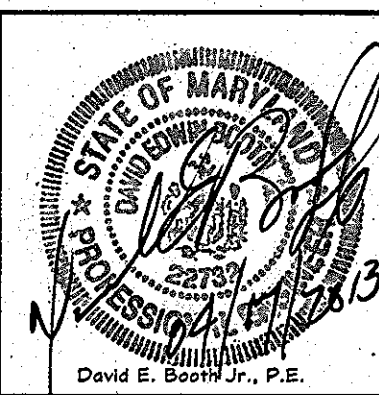
SOIL SERIES	HYDROLOGIC SOIL GROUP	ERODIBLE (k-factor x 35)	HYDRIC
CHILLUM-RUSSET	B	+	-
SASSARFRAS AND CROOM	B	+	-
URBAN LAND-CHILLUM-BELTSVILLE	D	+	-

PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THIS DOCUMENT WAS PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 22732, EXPIRATION DATE: JUNE 5, 2014.

**CLSI**  
Civil Engineering & Environmental Consulting  
www.clsi-civileng.com

439 East Main Street Westminster, MD 21157-5539  
(410) 848-1790 FAX (410) 848-1791

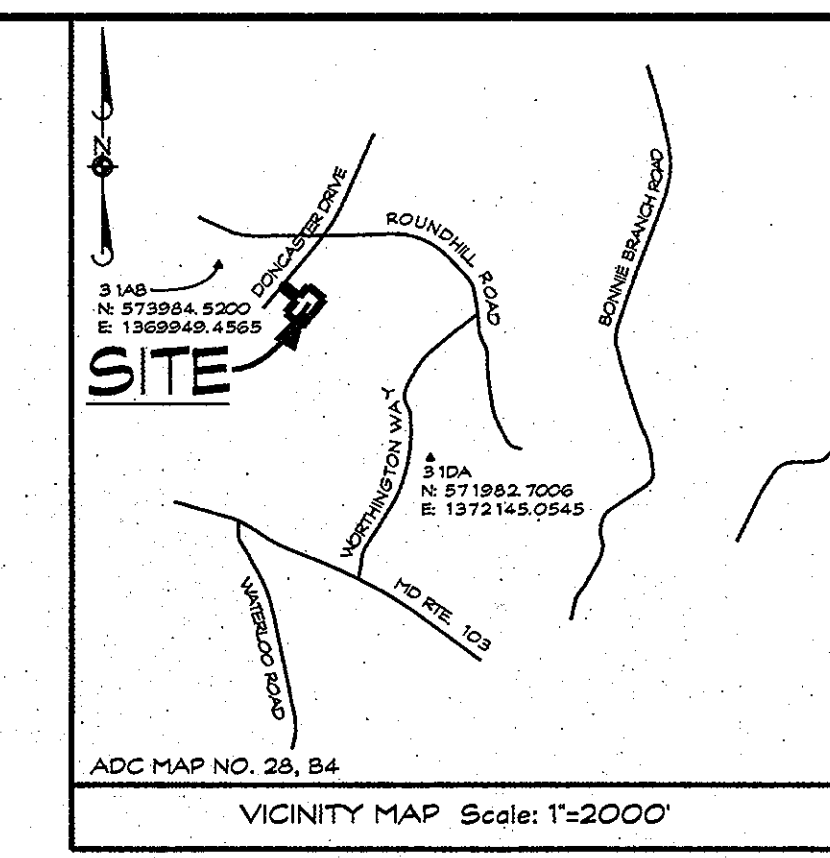
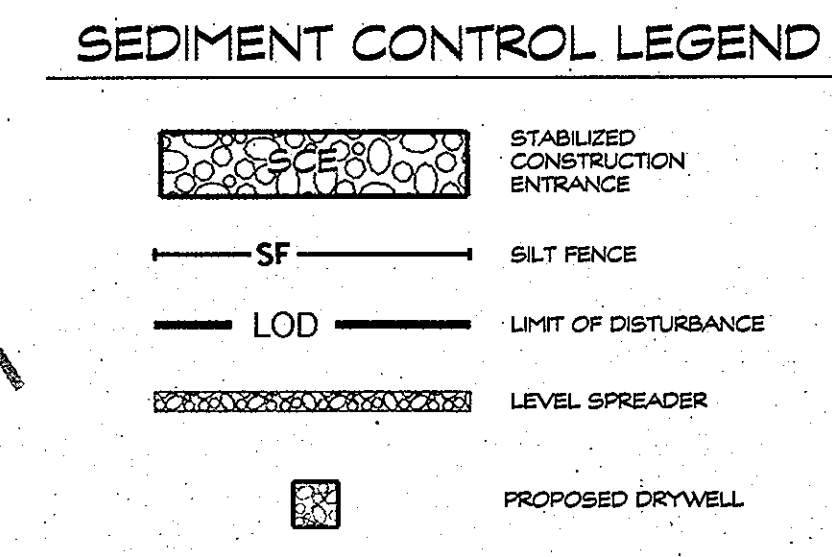
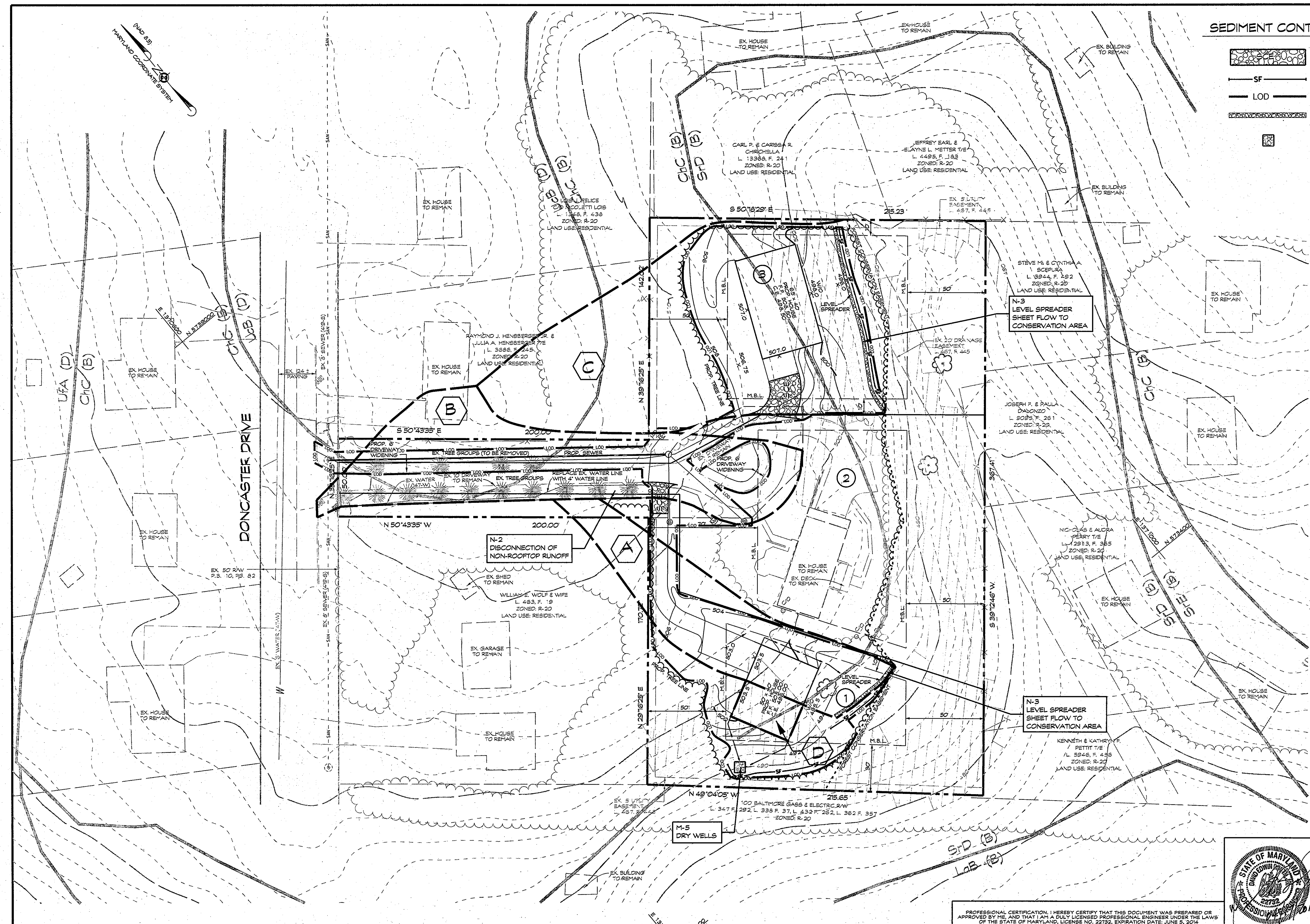
Surveyed By: CLSI    Drawn By: BM  
Computed By: DLA    Checked By: LGD



HOWARD COUNTY FILES

WATER CONTRACT NO. 147-W  
SEWER CONTRACT NO. 419-S

OWNER/ DEVELOPER  
MATTHEW SHANLEY  
8048 HILLSBOROUGH ROAD  
ELlicOTT CITY, MD 21043  
(443) 786-1583



**DATA SUMMARY:**

TOTAL AREA OF SITE = 2.03 AC.  
 D SOIL = 0.093 AC.  
 B SOIL = 1.939 AC.

**LOT 1:**  
 PROP. DRIVEWAY = 1769 S.F. OR 0.04 AC.  
 PROP. HOUSE = 2000 S.F. OR 0.05 AC.  
 PROP. TREATMENT = N-3 LEVEL SPREADER (SHEET FLOW TO CONSERVATION AREA) DRIVEWAY AND 1/2 THE HOUSE.  
 M-5 DRYWELL (ROOFTOP DISCONNECT) 1/2 THE HOUSE.

Ⓐ = DRAINAGE AREA TO LEVEL SPREADER ON LOT 1  
 Ⓓ = DRAINAGE AREA TO DRYWELL ON LOT 1

**LOT 2:**  
 THE EX. DRIVEWAY WILL BE WIDENED 6' AND USED AS A USE-IN-COMMON DRIVEWAY FOR ALL THREE LOTS.  
 PROP. DRIVEWAY = 1511 S.F. OR 0.03 AC.  
 PROP. TREATMENT = N-2 NON-ROOFTOP DISCONNECT FOR THE PROPOSED 6' WIDENING OF THE ENTRANCE DRIVE.

Ⓑ = DRAINAGE AREA TO LEVEL SPREADER ON LOT 2

**LOT 3:**  
 PROP. DRIVEWAY = 914 S.F. OR 0.02 AC.  
 PROP. HOUSE = 2600 S.F. OR 0.06 AC.  
 PROP. TREATMENT = N-3 LEVEL SPREADER (SHEET FLOW TO CONSERVATION AREA) FOR THE HOUSE AND DRIVEWAY.

Ⓒ = DRAINAGE AREA TO LEVEL SPREADER ON LOT 3

**LEGEND**

15% - 25% SLOPES	100 YR. FEMA FLOODPLAIN
25% SLOPES	FOREST STAND DESIGNATION
SOIL LINE / SOIL DESIGNATION	SPECIEN TREE
EXISTING TREELINE	FOREST STAND LINE
100' STREAM BUFFER	EVERGREEN / CONIFER
FOREST CONSERVATION BASEMENT/ PROPOSED TREE LINE	EX. WATER LINE
EX. CURB	SAN EX. SEWER LINE
EX. PAVING	PROP. SEWER HOUSE CONNECTION
EX. BASEMENT LINE	PROP. WATER HOUSE CONNECTION
M.B.L. BUILDING SETBACK LINE	EX. 10' CONTOUR
PROPERTY LINE	EX. 2' CONTOUR
	PROPOSED DWELLING
	PROPOSED LOT NUMBER

DATE	REVISION	BY

**ADDRESS CHART**

LOT NO.	STREET ADDRESS
28	4633 DONCASTER DRIVE ELLICOTT CITY, MD 21043

**PERMIT INFORMATION CHART**

SUBDIVISION NAME	SECTION/AREA	LOT / PARCEL NO.			
ELLICOTT WOODS		28/22			
PLAT NO.	BLOCK NO.	ZONE	TAX MAP NO.	ELECT. DISTR.	CENSUS TRACT
2647	8	R-20	31	2nd	602700

**PRELIMINARY GRADING & SEDIMENT CONTROL PLAN**

**ELLICOTT WOODS**

RESUBDIVISION OF LOT 28. LOTS 1, 2 & 3

DEED REFERENCE: 1295/457

TAX MAP: 31 BLOCK: 8 PARCEL: 22

2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND

SCALE: 1" = 30' DATE: AUG., 2012 SHEET: 4 OF 4

RELATED DPZ FILE NUMBERS:

APPROVED: DEPARTMENT OF PLANNING AND ZONING

*David S. Booth Jr.* 5/21/13  
 CHIEF, DEVELOPMENT ENGINEERING DIVISION

*Kevin J. Palumbo* 5/14/13  
 CHIEF, DIVISION OF LAND DEVELOPMENT

**ENGINEER CERTIFICATE**

I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

SIGNED: *David S. Booth Jr.* DATE: *April 17, 2013*  
 DAVID S. BOOTH JR.  
 PROFESSIONAL ENGINEER REG. NO. 22732

**DEVELOPER'S CERTIFICATION FOR SEDIMENT AND EROSION CONTROL**

I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY.

SIGNED: *Matthew J. Shanley* DATE: *April 20, 2013*  
 PRINTED: *Matthew J. Shanley*

**SOILS CHART**

SOIL SERIES	HYDROLOGIC SOIL GROUP	ERODIBLE (k-factor > 35)	HYDRIC
CHILLUM-RUSSET	B	+	-
SASSARFRAS AND CROOM	B	+	-
URBAN LAND-CHILLUM-BELTSVILLE	D	+	-

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THIS DOCUMENT WAS PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 22732, EXPIRATION DATE: JUNE 5, 2014

**CLSI**  
 Civil Engineering & Environmental Consulting

439 East Main Street Westminster, MD 21157-5539  
 (410) 848-1790 FAX (410) 848-1791

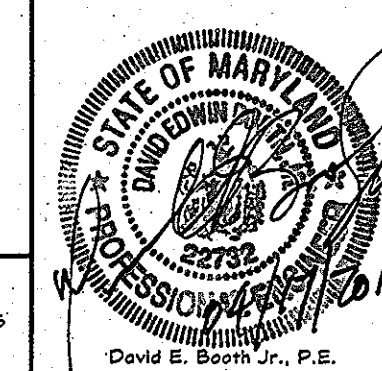
Surveyed By: CLSI Drawn By: BM  
 Computed By: DLA Checked By: LGD

HOWARD COUNTY FILES

WATER CONTRACT NO. 147-W  
 SEWER CONTRACT NO. 419-S

OWNER/ DEVELOPER

MATTHEW SHANLEY  
 8048 HILLSBOROUGH ROAD  
 ELLICOTT CITY, MD 21043  
 (443) 766-1583



CAD Drawing File Name: