

GENERAL NOTES

- SUBJECT PROPERTY ZONED RC-DEO PER 02/02/04 COMPREHENSIVE ZONING PLAN.
- PROPERTY ADDRESS: 11785 BRAGDON WOOD.
- TOTAL AREA OF PROPERTY = 33.55 AC.±
- PROPOSED NUMBER OF LOTS = 9
- PROPOSED AREA OF LOTS = 33.55 AC.±
- PRIVATE WATER AND PRIVATE SEWER WILL BE USED WITHIN THIS SITE.
- THIS AREA IS ASSIGNED A PRIVATE SEWAGE EASEMENT OF AT LEAST 10,000 SF AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL (COMAR 26.04.03). IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWERAGE IS AVAILABLE. THESE EASEMENTS SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWERAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWAGE EASEMENT. RECORDATION OF A MODIFIED SEWAGE EASEMENT SHALL NOT BE NECESSARY.
- THE BOUNDARY SHOWN HEREON IS BASED ON A FIELD RUN BOUNDARY SURVEY PREPARED BY SILL, ADCOCK & ASSOCIATES, LLC IN APRIL 2011.
- THE TOPOGRAPHY SHOWN HEREON HAS BEEN FIELD RUN BY SILL, ADCOCK & ASSOCIATES, LLC IN APRIL, 2011. THE EXISTING TOPOGRAPHY SHOWN OUTSIDE THE SITE IS BASED ON HOWARD COUNTY AERIAL TOPOGRAPHY FLOWN IN 1993.
- REFERENCE: LIBER 3503, FOLIO 615; LIBER 3503 FOLIO 620; LIBER 12886, FOLIO 001; PLAT 9328
- PREVIOUS HOWARD COUNTY FILE NUMBERS: PLAT 9328; F-90-157
- THE SOILS SHOWN HAVE BEEN TAKEN FROM THE NRCS WEB SOIL SURVEY WEBSITE.
- THE WETLAND AND STREAM LIMITS SHOWN ARE BASED ON A STUDY PREPARED BY SILL, ADCOCK & ASSOCIATES, LLC IN JULY 2011.
- THE LOTS SHOWN HEREON COMPLY WITH THE MINIMUM OWNERSHIP, WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT.
- ALL EXISTING WELLS, SEPTIC SYSTEMS AND SEWAGE DISPOSAL EASEMENTS WITHIN 100 FEET OF THE PROPERTY BOUNDARIES AND ALL EXISTING AND PROPOSED WELLS THAT ARE LOCATED WITHIN 200 FEET DOWN GRADIENT OF EXISTING OR PROPOSED SEPTIC SYSTEMS AND SEWAGE DISPOSAL EASEMENTS HAVE BEEN FIELD LOCATED.
- EXISTING UTILITIES ARE LOCATED BY THE USE OF ANY OR ALL OF THE FOLLOWING: ROAD CONSTRUCTION PLANS, FIELD SURVEYS, PUBLIC WATER AND SEWER PLANS AND OTHER AVAILABLE RECORD DRAWINGS. APPROXIMATE LOCATION OF THE EXISTING UTILITIES ARE SHOWN FOR THE CONTRACTORS INFORMATION. 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. ANY DAMAGE INCURRED DUE TO THE CONTRACTORS OPERATION SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
- THE HOUSE ON EXISTING LOT 6, CHAPEL WOODS II, AND ITS SEPTIC SYSTEM ARE TO BE ABANDONED ACCORDING TO THE HOWARD COUNTY HEALTH DEPARTMENT REGULATIONS. THE WELL LOCATED ON EXISTING LOT 8 WILL REMAIN TO BE USED FOR PROPOSED LOT 3. THE EXISTING HOUSE LOCATED ON PARCEL 353 IS TO REMAIN. THE SEPTIC SYSTEM SERVING THIS HOUSE IS TO REMAIN AND HAS A 10,000 SQUARE FOOT SEPTIC EASEMENT APPROVED IN 1987. THE WELL SERVING PARCEL 353 WILL BE PROPERLY ABANDONED AND A NEW ONE CONSTRUCTED IN THE LOCATION SHOWN.
- MARYLAND DEPARTMENT OF THE ENVIRONMENT HAS APPROVED A VARIANCE TO ALLOW SEWAGE DISPOSAL SYSTEMS LOCATED ON LOTS 1, 2, 3, 4, 7 & 8 TO BE LOCATED UPGRADIENT FROM THE PRIVATE WATER SUPPLY ON LOT 1 AND NEIGHBORING PARCELS 30, 31, 37, 45 & 47. THIS IS SUBJECT TO THE FOLLOWING CONDITIONS: AN ADVANCED PRE-TREATMENT SYSTEM, WHICH UTILIZES BEST AVAILABLE TECHNOLOGY TO PERFORM NITROGEN REDUCTION, MUST BE INSTALLED ON THE SEWAGE DISPOSAL SYSTEMS ON LOTS 1, 2, 3, 4, 7 & 8. THE WELLS ON LOT 1, 5 & 8 MUST BE CONSTRUCTED USING A STEEL WELL CASING, WHICH MUST BE INSTALLED AT A MINIMUM DEPTH OF 50' BELOW GROUND SURFACE OR 10' INTO THE COMPETENT BEDROCK. A LOW PRESSURE DOSING SYSTEM WILL BE REQUIRED FOR THE SEWAGE DISPOSAL SYSTEMS ON LOTS 1, 2, 3, 4, 7 & 8.
- PRELIMINARY GEOTECHNICAL INFORMATION HAS BEEN TAKEN FROM THE NRCS WEB SOIL SURVEY WEBSITE. IF FUTURE INVESTIGATIONS REVEAL UNSATISFACTORY SOIL CONDITIONS FOR ANY OF THE STORMWATER MANAGEMENT TREATMENTS SHOWN, EITHER UNDERDRAINS WILL BE PROVIDED OR A DIFFERENT PRACTICE WILL BE SUBSTITUTED.
- THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL, WHICH IS BASED ON THE NATIONAL STATE PLANE COORDINATE SYSTEM. HOWARD COUNTY MONUMENT NUMBERS 29G5 AND 29G6 WERE USED FOR THIS PROJECT.
- NO GRADING, REMOVAL OF VEGETATIVE COVER OR TREES, PAVING AND NEW STRUCTURES SHALL BE PERMITTED WITHIN THE LIMITS OF WETLANDS, STREAMS, OR THEIR REQUIRED BUFFERS, FLOODPLAIN AND FOREST CONSERVATION EASEMENT AREAS, UNLESS WAIVERS HAVE BEEN APPROVED OR ACTIVITIES HAVE BEEN DETERMINED ESSENTIAL BY THE DEPARTMENT OF PLANNING AND ZONING. THE DISTURBANCE OF THE WETLAND AREA LOCATED APPROXIMATELY 40' SOUTH OF DRIVEWAY STATION 1+60 HAS BEEN DETERMINED TO BE A NECESSARY DISTURBANCE BY THE DEPARTMENT OF PLANNING AND ZONING AS PART OF WP-11-181.
- THE STORMWATER MANAGEMENT SYSTEM SHOWN ON THESE PLANS IS AN APPROXIMATION OF THE SIZE, SHAPE, AND LOCATION. IT IS UNDERSTOOD THAT THIS SYSTEM HAS NOT BEEN DESIGNED AND THE ACTUAL DESIGN MAY CHANGE, ALTERING THE NUMBER OF UNITS ALLOCATED FOR THIS DEVELOPMENT.
- FOREST CONSERVATION OBLIGATIONS WILL BE MET FOR THIS PROJECT WITH THE RETENTION OF FOREST ON-SITE.
- ALL SWALES TO HAVE EROSION CONTROL MATTING.
- APPROVAL OF THIS EOP DOES NOT CONSTITUTE APPROVAL OF SUBSEQUENT AND ASSOCIATED SUBDIVISION PLANS, SITE DEVELOPMENT PLANS OR RED-LINE REVISIONS. 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 OR SITE DEVELOPMENT PLAN STAGES OR RED-LINE REVISION PROCESS. 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 PROCESS.

STORMWATER MANAGEMENT NOTES & DESIGN NARRATIVE

- THIS SITE INCLUDES AN AREA (PROPOSED LOT 6) WITH EXISTING STRUCTURES WHICH IS EXCLUDED FROM THE STORMWATER MANAGEMENT CALCULATIONS. THE STORMWATER MANAGEMENT DESIGN IS BEING COMPLETED ONLY FOR THE DEVELOPED AREA, AS IS PERMITTED. HOWEVER, WE HAVE INCLUDED THE PIPESTEM PORTION OF PROPOSED LOT 6 IN THE CALCULATIONS SINCE IT IS WITHIN THE LIMIT OF DISTURBANCE.
- ENVIRONMENTALLY SENSITIVE AREAS (STREAM, WETLANDS AND STEEP SLOPES) EXIST ON-SITE IN THE AREA OF DEVELOPMENT. A WAIVER HAS BEEN APPROVED FOR THESE FEATURES TO REMAIN ON THE PROPOSED LOTS AND THE SMALL AREA OF WETLAND AT THE ENTRANCE HAS BEEN DETERMINED TO BE A NECESSARY DISTURBANCE PER WP-11-181. A FLOODPLAIN EXISTS ON PROPOSED LOT 6 AND IS NOT BEING IMPACTED BY THIS DEVELOPMENT.
- STORMWATER MANAGEMENT OBLIGATIONS WILL BE TREATED BY UTILIZING MICRO-BIORETENTION FACILITIES FOR THE PROPOSED USE-IN-COMMON DRIVEWAY. THE PROPOSED BUILDINGS WILL BE TREATED USING MICRO-BIORETENTION FACILITIES AND ROOFTOP DISCONNECTS. PRIVATE DRIVEWAYS WILL BE TREATED BY A COMBINATION OF MICRO-BIORETENTION FACILITIES AND NON-ROOFTOP DISCONNECTS.
- THERE ARE MULTIPLE PROPOSED "ON-SITE" FOREST CONSERVATION/AFFORESTATION AREAS CREATED TO SATISFY THE "ON-SITE" FOREST CONSERVATION REQUIREMENTS FOR THIS DEVELOPMENT.
- THE REQUIRED P₂₅ FOR THIS SITE (LOT 1) HAS BEEN TREATED THROUGH THE USE OF MICRO-BIORETENTION, GRAVEL TRENCH, ROOFTOP DISCONNECTS AND NON-ROOFTOP DISCONNECTS. SEDIMENT CONTROL WILL BE PROVIDED BY A SEDIMENT TRAP, SILT FENCE, SUPER SILT FENCE, EARTH DIKES AND EROSION CONTROL MATTING. NO STRUCTURAL BMP'S OR SEDIMENT BASINS ARE REQUIRED.

SITE ANALYSIS DATA SHEET

ENVIRONMENTAL AREA	SIZE OR USE
TOTAL PROJECT AREA	33.55 ACRES±
LIMIT OF DISTURBANCE	8.76 ACRES±
GREEN OPEN AREA (LAWN)	15.38 ACRES±
IMPERVIOUS AREA	2.65 ACRES±
PROPOSED SITE USES	33.55 ACRES±
WETLANDS	0.89 ACRES±
WETLAND BUFFERS	1.51 ACRES±
FLOODPLAINS	4.09 ACRES±
FLOODPLAIN BUFFERS	1.12 ACRES±
EXISTING FOREST	15.52 ACRES±
SLOPES GREATER THAN 15%	8.83 ACRES±
HIGHLY ERODIBLE SOILS	7.78 ACRES± (1)

NOTE:
1) HIGHLY ERODIBLE SOILS ARE ASSUMED TO BE A "K" VALUE OF 0.35 OR HIGHER PER THE MARYLAND DEPARTMENT OF THE ENVIRONMENT.

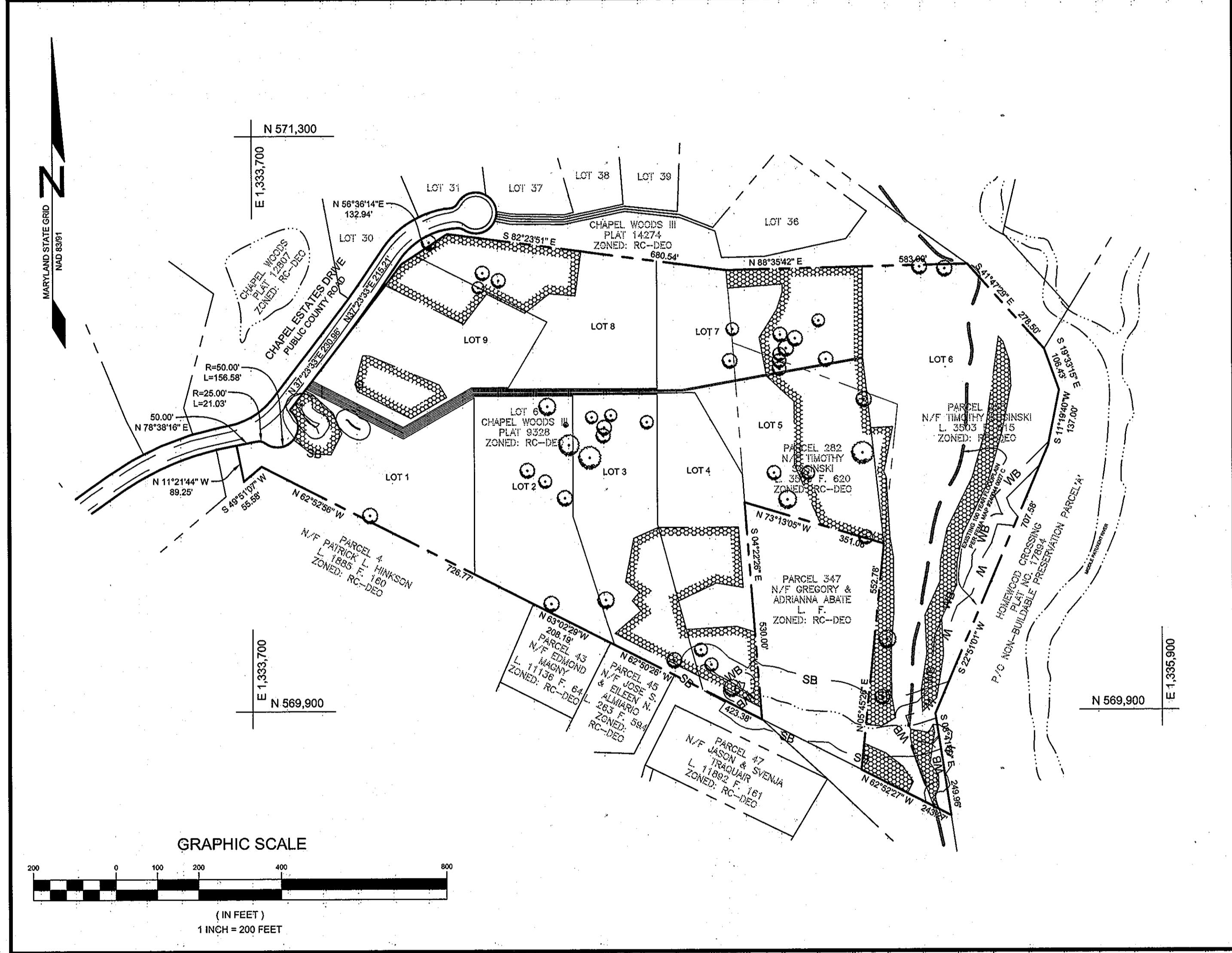
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
 [Signature] 10/21/11
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE
 [Signature] 10/21/11
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

ENVIRONMENTAL CONCEPT PLAN

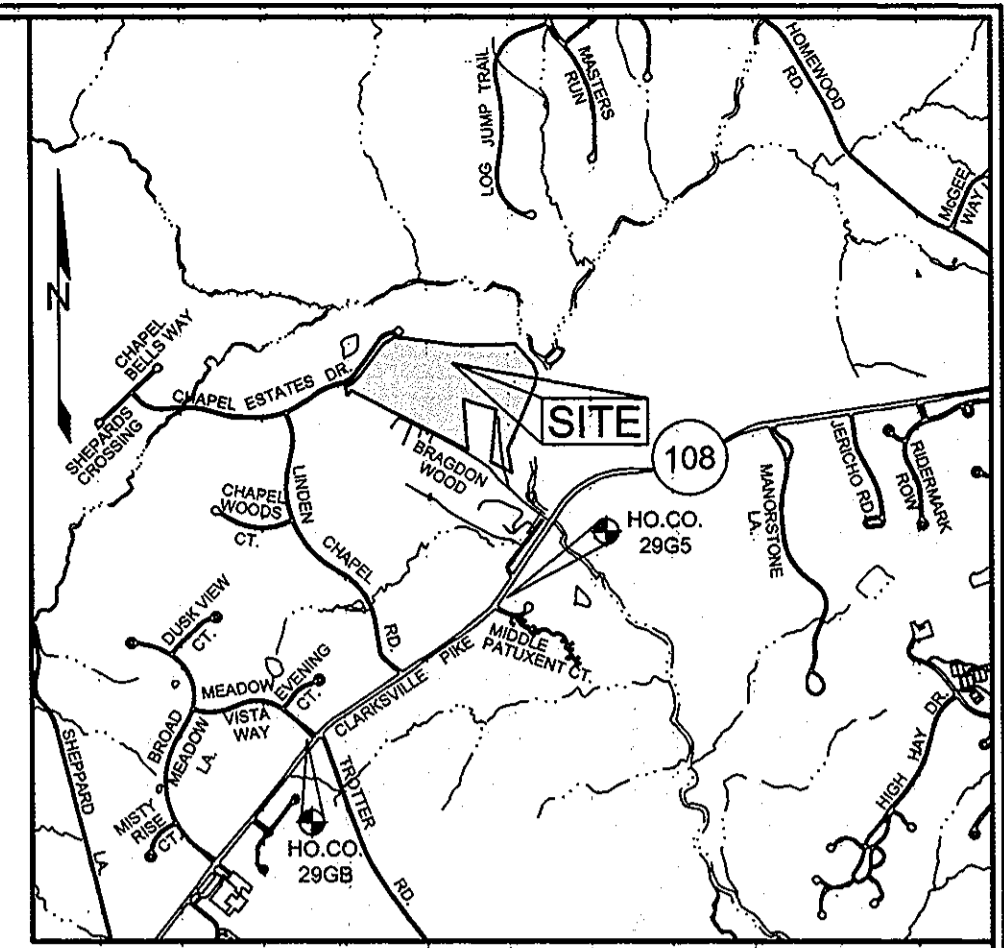
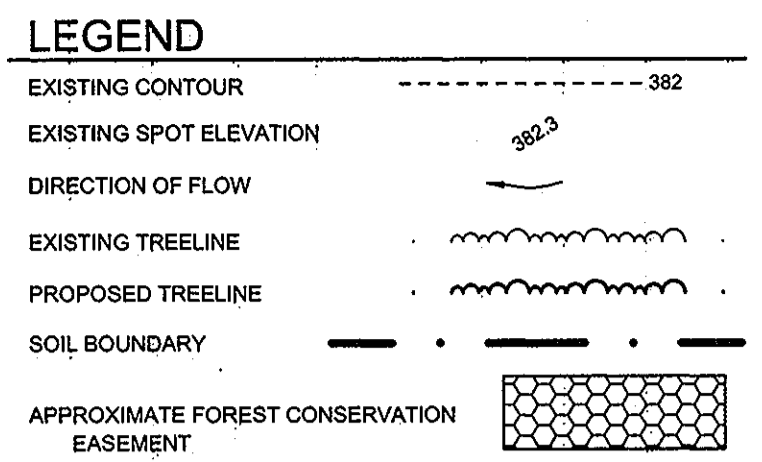
CHAPEL RISE

LOTS 1 THRU 9

HOWARD COUNTY, MARYLAND



LOCATION MAP
SCALE: 1"=200'



VICINITY MAP
SCALE: 1"=2000'

BENCHMARKS

NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
29GB	566,828.1	1,333,265.9	466.00	SW CORNER OF MEADOW VISTA ROAD AND TROTTER ROAD, 32.2' FROM CULVERT END
29G5	568,341.2	1,335,392.5	387.40	SE SIDE OF ROUTE 108, 142' FROM MIDDLE PATUXENT RIVER, 80' FROM PAVING EDGE

STORMWATER MANAGEMENT DESIGN DATA

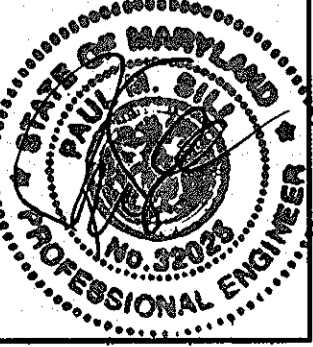
DA #	DESCRIPTION	DESIGNED	REQUIRED	CODE	BMP TREATMENT TYPE
1	P/O OF UIC DRIVEWAY	568 CF	568 CF	M-6	BIO-RETENTION FACILITY #1
2	P/O OF UIC DRIVEWAY	305 CF	305 CF	M-6	BIO-RETENTION FACILITY #2
3	P/O OF UIC DRIVEWAY	261 CF	261 CF	M-6	BIO-RETENTION FACILITY #3
4	P/O OF UIC DRIVEWAY	348 CF	348 CF	M-6	BIO-RETENTION FACILITY #4
5	P/O OF UIC DRIVEWAY	784 CF	784 CF	M-6	BIO-RETENTION FACILITY #5
LOT 1	HOUSE AND P/O DRIVEWAY	610 CF	610 SF	M-6	BIO-RETENTION FACILITY #7
LOT 1	P/O DRIVEWAY	2,708 SF	564 SF	N-2	NON-ROOFTOP DISCONNECT
LOT 2	HOUSE AND P/O DRIVEWAY	923 CF	923 CF	M-6	BIO-RETENTION FACILITY #8
LOT 2	P/O DRIVEWAY	1,542 SF	1,542 SF	N-2	NON-ROOFTOP DISCONNECT
LOT 3	P/O HOUSE	261 CF	261 CF	M-6	BIO-RETENTION FACILITY #9
LOT 3	P/O HOUSE	1,500 SF	1,500 SF	N-1	ROOFTOP DISCONNECT
LOT 3	DRIVEWAY	1,951 SF	1,951 SF	N-2	NON-ROOFTOP DISCONNECT
LOT 4	HOUSE	348 CF	348 CF	M-6	BIO-RETENTION FACILITY #10
LOT 4	DRIVEWAY	1,985 SF	1,985 SF	N-2	NON-ROOFTOP DISCONNECT
LOT 5	HOUSE AND DRIVEWAY	348 CF	348 CF	M-6	BIO-RETENTION FACILITY #11
LOT 6	P/O DRIVEWAY	479 CF	479 CF	M-6	BIO-RETENTION FACILITY #6
LOT 6	REMAINDER OF DRIVEWAY	3,123 SF	3,123 SF	N-2	NON-ROOFTOP DISCONNECT
LOT 6	EXISTING DW AND HOUSE	N/A	N/A	N/A	N/A
LOT 7	HOUSE	348 CF	348 CF	M-6	BIO-RETENTION FACILITY #12
LOT 7	DRIVEWAY	2,792 SF	2,792 SF	N-2	NON-ROOFTOP DISCONNECT
LOT 8	HOUSE	392 CF	392 CF	M-6	BIO-RETENTION FACILITY #13
LOT 8	DRIVEWAY	3,361 SF	3,361 SF	N-2	NON-ROOFTOP DISCONNECT
LOT 9	HOUSE AND P/O DRIVEWAY	610 CF	610 CF	M-6	BIO-RETENTION FACILITY #14
LOT 9	REMAINDER OF DRIVEWAY	1,144 SF	0 SF	N/A	N/A

- NOTES:
- HOUSE SIZE IS BASED ON A 4,500 SF FOOTPRINT.
 - DRIVEWAY DISCONNECTS PROVIDE FULL TREATMENT.
 - PORTIONS OF THE LOT 1 AND LOT 9 DRIVEWAYS CAN NOT BE TREATED DUE TO THE STEEPNESS OF GRADE AND CLOSE PROXIMITY OF ENVIRONMENTAL FEATURES. A GRAVEL TRENCH HAS BEEN PROVIDED ON LOT 1. ESD HAS BEEN PROVIDED TO THE MEP ON THESE LOTS.

SHEET INDEX

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	LAYOUT, CONCEPTUAL GRADING AND SEDIMENT CONTROL PLAN
3	LAYOUT, CONCEPTUAL GRADING AND SEDIMENT CONTROL PLAN
4	LAYOUT, CONCEPTUAL GRADING AND SEDIMENT CONTROL PLAN
5	ENVIRONMENTAL SITE DESIGN DRAINAGE AREA MAP
6	ENVIRONMENTAL SITE DESIGN DRAINAGE AREA MAP
7	ENVIRONMENTAL SITE DESIGN DRAINAGE AREA MAP
8	FOREST STAND AND WETLAND DELINEATION PLAN

COVER SHEET
CHAPEL RISE
 LOTS 1 THRU 9
 A SUBDIVISION OF PARCEL 282 & 353 AND A RESUBDIVISION OF LOT 6,
 CHAPEL WOODS II, PLAT #9328
 TAX MAP 29 GRID 13 PARCEL 26, 282 & 353
 5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND



Sill · Adcock & Associates · LLC
 Engineers · Surveyors · Planners
 3300 North Ridge Road, Suite 160
 Ellicott City, Maryland 21043
 Phone: 443.325.7682 Fax: 443.325.7685
 Email: info@saatlant.com

DESIGN BY: PS
 DRAWN BY: PS
 CHECKED BY: PS
 SCALE: AS SHOWN
 DATE: OCTOBER 25, 2011
 PROJECT #: 09-073
 SHEET #: 1 of 8

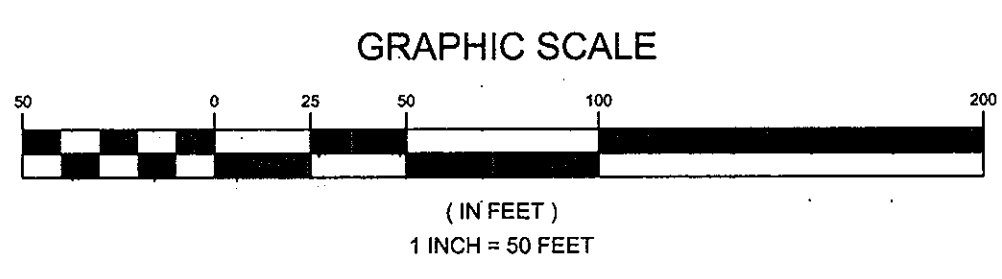
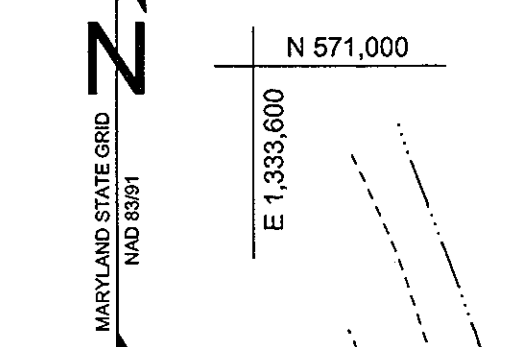
PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 32023, EXPIRATION DATE: JUNE 20, 2013

OWNER
 CHAPEL RISE, LTD. AND TIM SOSINSKI
 C/O TIM SOSINSKI
 11785 BRAGDON WOOD
 CLARKSVILLE, MARYLAND 21029
 410.730.2300

DEVELOPER
 GREEN GATEWAY, LLC
 C/O TIM SOSINSKI
 11785 BRAGDON WOOD
 CLARKSVILLE, MARYLAND 21029
 410.730.2300

SOILS LEGEND			
SYMBOL	NAME / DESCRIPTION	GROUP	K ^c FACTOR
Gc	CODORUS AND HATBORO SILT LOAMS, 0 TO 3 PERCENT SLOPES	C	0.37
GbB	GLADSTONE LOAM, 3 TO 8 PERCENT SLOPES	B	0.20
GbC	GLADSTONE LOAM, 8 TO 15 PERCENT SLOPES	B	0.20
GmB	GLENVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES	C	0.37
GmB	GLENVILLE-BAILE SILT LOAMS, 0 TO 8 PERCENT SLOPES	C	0.37
Hs	HATBORO-CODORUS SILT LOAMS, 0 TO 3 PERCENT SLOPES	D	0.37
MaD	MANOR LOAM, 15 TO 25 PERCENT SLOPES	B	0.24

LEGEND	
EXISTING CONTOUR	---
PROPOSED CONTOUR	---
EXISTING SPOT ELEVATION	382.3
PROPOSED SPOT ELEVATION	+82.53
DIRECTION OF FLOW	→
EXISTING TREELINE	~~~~~
PROPOSED TREELINE	~~~~~
SOIL BOUNDARY	---
APPROXIMATE FOREST CONSERVATION EASEMENT	[Hatched Box]
ACCESS EASEMENT	[White Box]
15.00% - 24.99% SLOPES	[Light Gray Box]
25.00% AND GREATER SLOPES	[Dark Gray Box]
1' SOILS	[White Box]
10' SOILS	[White Box]
STABILIZED CONSTRUCTION ENTRANCE	[Hatched Box]
SILT FENCE	SF
SUPER SILT FENCE	SSF
EARTH DIKE	ED A-1
LIMIT OF DISTURBANCE	LOD
STANDARD INLET PROTECTION	SIP
AT-GRADE INLET PROTECTION	AGIP
ROOF LEADER	[Symbol]
SPECIMEN TREE (SEE SHEET 8 FOR DESCRIPTION)	ST-1



APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
 CHIEF, DEVELOPMENT ENGINEERING DIVISION NY DATE: 10/21/11
 KEIT SLEDGE CHIEF, DIVISION OF LAND DEVELOPMENT DATE: 10/31/11

OWNER: CHAPEL RISE, LTD. AND TIM SOSINSKI
 11795 BRADGON WOOD CLARKSVILLE, MARYLAND 21029 410.730.2300
 DEVELOPER: GREEN GATEWAY, LLC
 C/O TIM SOSINSKI 11795 BRADGON WOOD CLARKSVILLE, MARYLAND 21029 410.730.2300

CONCEPTUAL GRADING, SEDIMENT AND EROSION CONTROL PLAN
CHAPEL RISE
 LOTS 1 THRU 9
 A SUBDIVISION OF PARCEL 282 & 353 AND A RESUBDIVISION OF LOT 6, CHAPEL WOODS II, PLAT #9328
 TAX MAP 29 GRID 13 5TH ELECTION DISTRICT PARCEL 26, 282 & 353 HOWARD COUNTY, MARYLAND

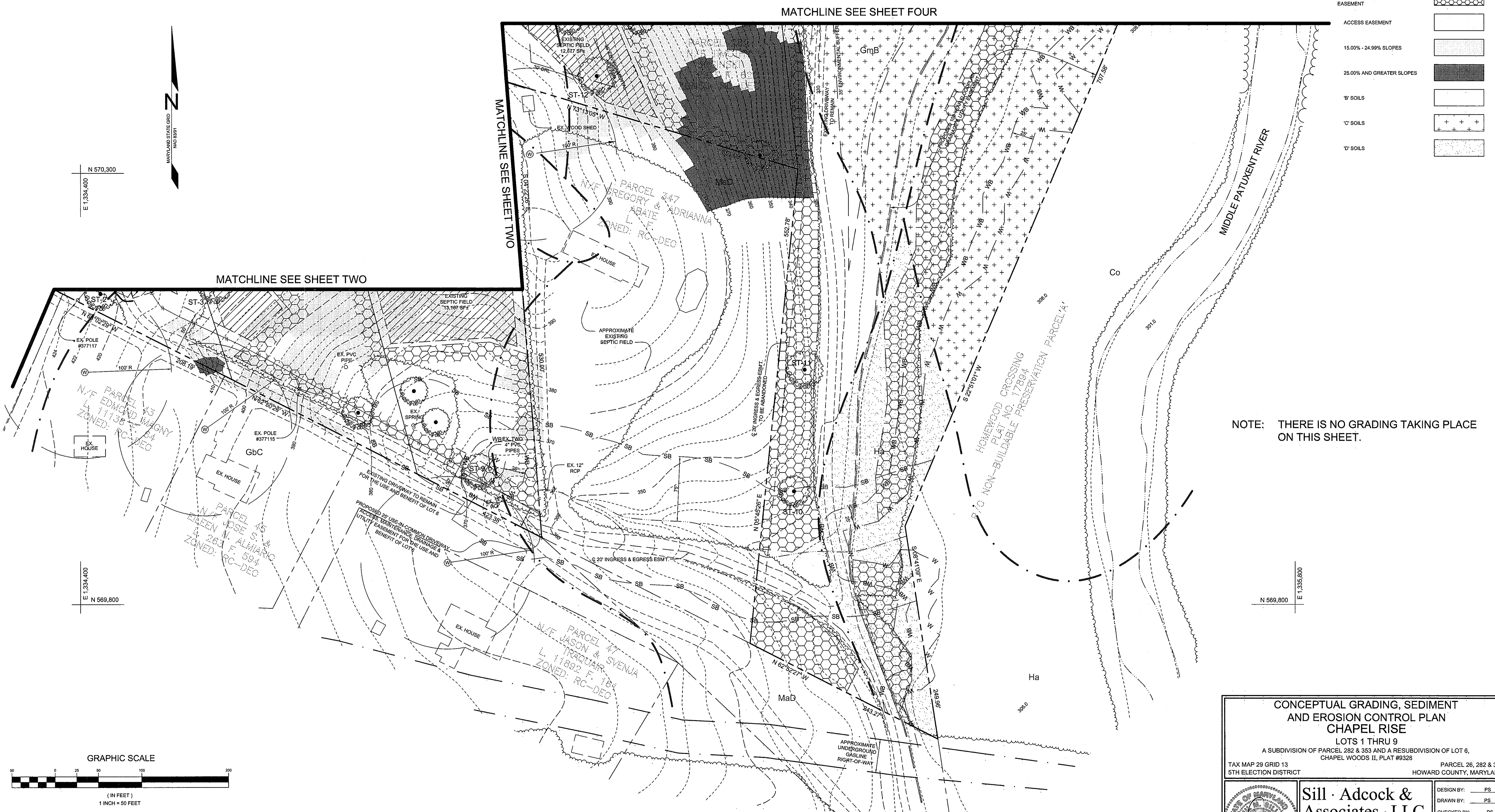
Sill · Adcock & Associates · LLC
 Engineers · Surveyors · Planners
 3300 North Ridge Road, Suite 160
 Elliott City, Maryland 21043
 Phone: 443.325.7682 Fax: 443.325.7685
 Email: info@silladcock.com

DESIGN BY: PS
 DRAWN BY: PS
 CHECKED BY: PS
 SCALE: 1" = 50'
 DATE: OCTOBER 25, 2011
 PROJECT #: 09-073
 SHEET #: 2 of 8

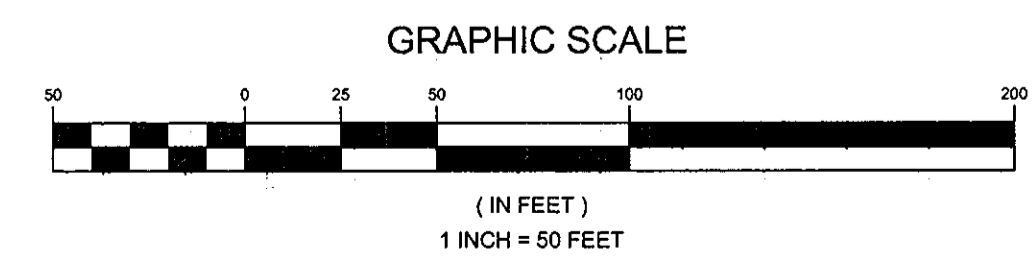
PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A QUALIFIED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 32025, EXPIRATION DATE: JUNE 20, 2013.

SOILS LEGEND			
SYMBOL	NAME / DESCRIPTION	GROUP	'K' FACTOR
Co	CODORUS AND HATBORO SILT LOAMS, 0 TO 3 PERCENT SLOPES	C	0.37
GbB	GLADSTONE LOAM, 3 TO 8 PERCENT SLOPES	B	0.20
GbC	GLADSTONE LOAM, 8 TO 15 PERCENT SLOPES	B	0.20
GmB	GLENVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES	C	0.37
GmB	GLENVILLE-BAILE SILT LOAMS, 0 TO 8 PERCENT SLOPES	C	0.37
Ha	HATBORO-CODORUS SILT LOAMS, 0 TO 3 PERCENT SLOPES	D	0.37
MaD	MANOR LOAM, 15 TO 25 PERCENT SLOPES	B	0.24

LEGEND	
EXISTING CONTOUR	--- 382 ---
PROPOSED CONTOUR	--- 382 ---
EXISTING SPOT ELEVATION	382.3
PROPOSED SPOT ELEVATION	+82.53
DIRECTION OF FLOW	→
EXISTING TREELINE	~ ~ ~ ~ ~
PROPOSED TREELINE	~ ~ ~ ~ ~
SOIL BOUNDARY	---
APPROXIMATE FOREST CONSERVATION EASEMENT	[Hatched Pattern]
ACCESS EASEMENT	[Dashed Line]
15.00% - 24.99% SLOPES	[Light Gray Fill]
25.00% AND GREATER SLOPES	[Dark Gray Fill]
'B' SOILS	[White Fill]
'C' SOILS	[+ + + +]
'D' SOILS	[x x x x]



NOTE: THERE IS NO GRADING TAKING PLACE ON THIS SHEET.



APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
 Chief, Development Engineering Division DATE: 10/31/11
 Chief, Division of Land Development DATE: 10/31/11

OWNER
 CHAPEL RISE, LTD. AND TIM SOSINSKI
 C/O TIM SOSINSKI
 11795 BRAGDON WOOD
 CLARKSVILLE, MARYLAND 21029
 410.730.2300

DEVELOPER
 GREEN GATEWAY, LLC
 C/O TIM SOSINSKI
 11795 BRAGDON WOOD
 CLARKSVILLE, MARYLAND 21029
 410.730.2300

CONCEPTUAL GRADING, SEDIMENT AND EROSION CONTROL PLAN
CHAPEL RISE
 LOTS 1 THRU 9
 A SUBDIVISION OF PARCEL 282 & 353 AND A RESUBDIVISION OF LOT 6,
 CHAPEL WOODS II, PLAT #9328
 TAX MAP 29 GRID 13 5TH ELECTION DISTRICT PARCEL 26, 282 & 353 HOWARD COUNTY, MARYLAND

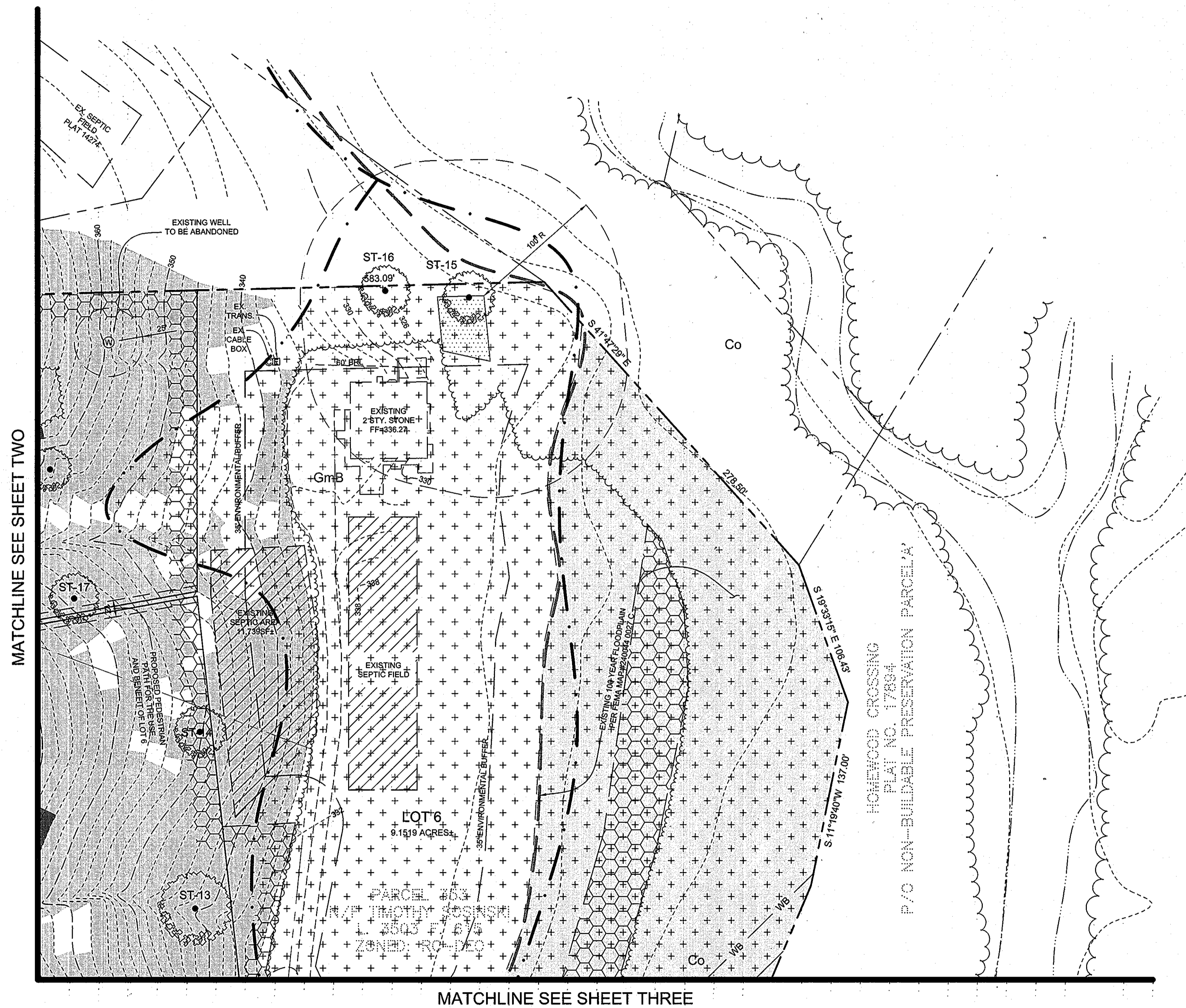
Sill · Adcock & Associates · LLC
 Engineers · Surveyors · Planners
 2300 North Ridge Road, Suite 160
 Elliott City, Maryland 21043
 Phone: 443.325.7682 Fax: 443.325.7685
 Email: info@silladcock.com

DESIGN BY: PS
 DRAWN BY: PS
 CHECKED BY: PS
 SCALE: 1" = 50'
 DATE: OCTOBER 25, 2011
 PROJECT #: 09-073
 SHEET #: 3 of 8

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 32023, EXPIRATION DATE: JUNE 20, 2013.

SOILS LEGEND			
SYMBOL	NAME / DESCRIPTION	GROUP	'K' FACTOR
Co	CODORUS AND HATBORO SILT LOAMS, 0 TO 3 PERCENT SLOPES	C	0.37
Gbb	GLADSTONE LOAM, 3 TO 8 PERCENT SLOPES	B	0.20
Gbc	GLADSTONE LOAM, 8 TO 15 PERCENT SLOPES	B	0.20
Gmb	GLENVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES	C	0.37
Gnb	GLENVILLE-BAILE SILT LOAMS, 0 TO 8 PERCENT SLOPES	C	0.37
Ha	HATBORO-CODORUS SILT LOAMS, 0 TO 3 PERCENT SLOPES	D	0.37
MaD	MANOR LOAM, 15 TO 25 PERCENT SLOPES	B	0.24

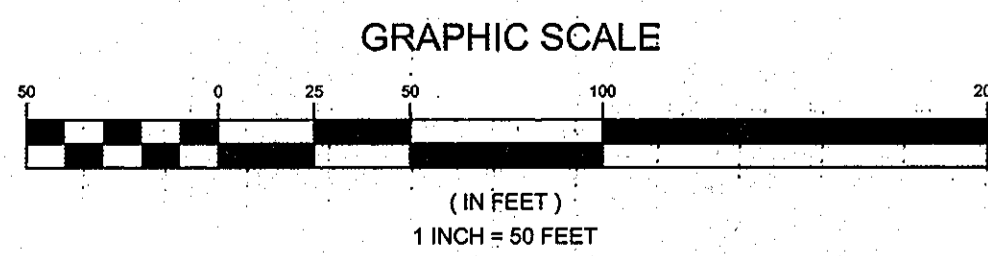
LEGEND	
EXISTING CONTOUR	--- 382
PROPOSED CONTOUR	--- 382
EXISTING SPOT ELEVATION	382.3
PROPOSED SPOT ELEVATION	+ 82.53
DIRECTION OF FLOW	→
EXISTING TREELINE	~~~~~
PROPOSED TREELINE	~~~~~
SOIL BOUNDARY	---
APPROXIMATE FOREST CONSERVATION EASEMENT	[Pattern]
ACCESS EASEMENT	[Pattern]
15.00% - 24.99% SLOPES	[Pattern]
25.00% AND GREATER SLOPES	[Pattern]
'B' SOILS	[Pattern]
'C' SOILS	[Pattern]



MATCHLINE SEE SHEET TWO

MATCHLINE SEE SHEET THREE

NOTE: THERE IS NO GRADING TAKING PLACE ON THIS SHEET.



APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
 [Signature] 10/31/11
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
 [Signature] 10/31/11
 CHIEF, DIVISION OF LAND DEVELOPMENT

OWNER
 CHAPEL RISE, LTD. AND TIM SOSINSKI
 C/O TIM SOSINSKI
 11795 BRAGDON WOOD
 CLARKSVILLE, MARYLAND 21029
 410.730.2300

DEVELOPER
 GREEN GATEWAY, LLC
 C/O TIM SOSINSKI
 11795 BRAGDON WOOD
 CLARKSVILLE, MARYLAND 21029
 410.730.2300

CONCEPTUAL GRADING, SEDIMENT AND EROSION CONTROL PLAN
CHAPEL RISE
 LOTS 1 THRU 9
 A SUBDIVISION OF PARCEL 282 & 353 AND A RESUBDIVISION OF LOT 6,
 CHAPEL WOODS II, PLAT #9328
 TAX MAP 29 GRID 13 5TH ELECTION DISTRICT PARCEL 26, 282 & 353 HOWARD COUNTY, MARYLAND

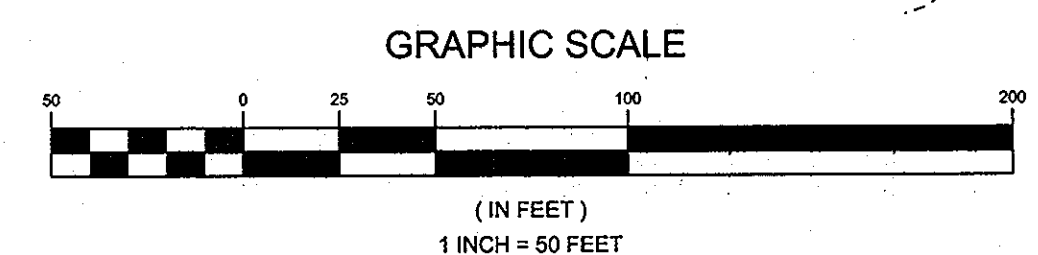
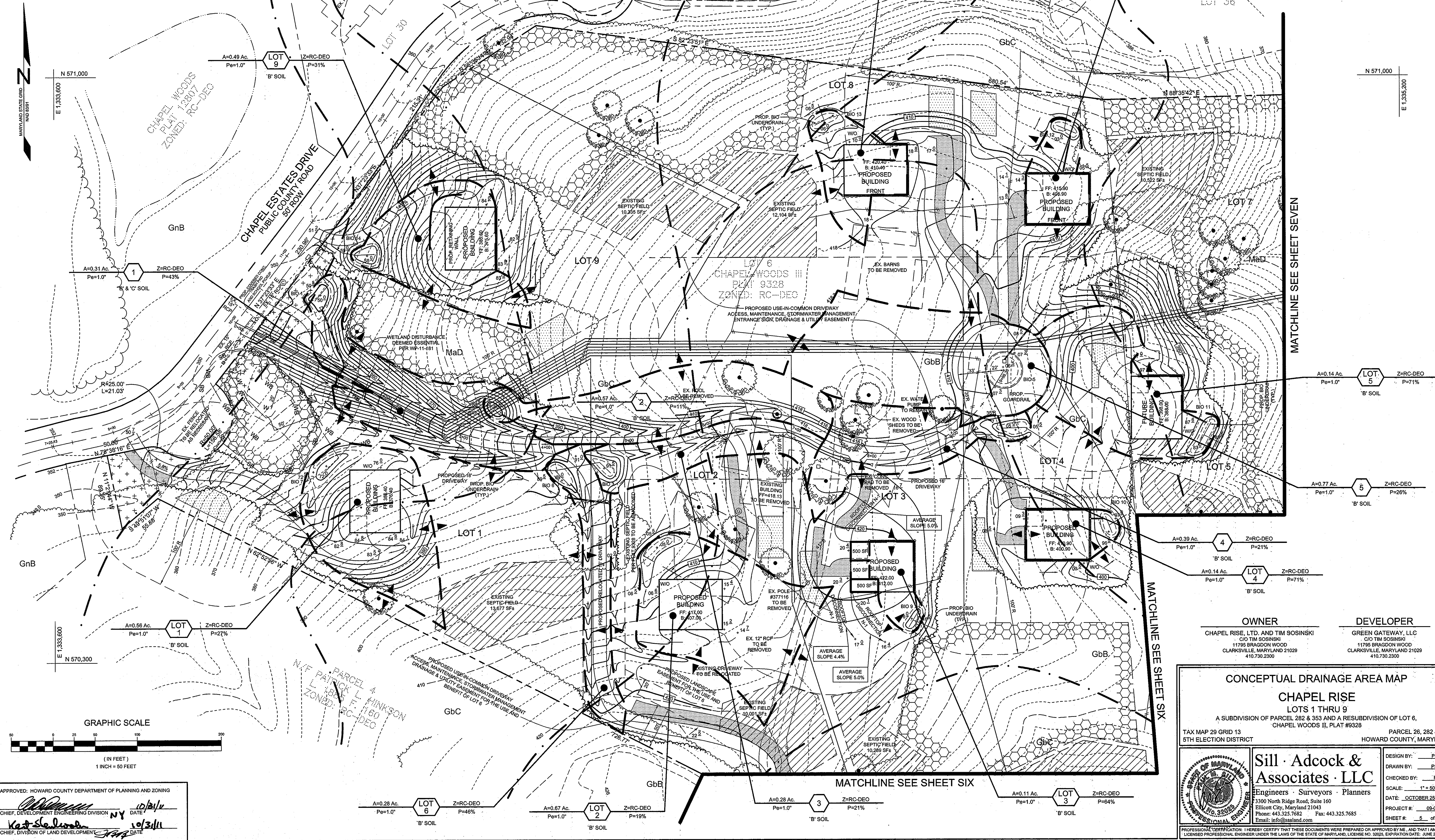
Sill · Adcock & Associates · LLC
 Engineers · Surveyors · Planners
 3500 North Ridge Road, Suite 160
 Ellicott City, Maryland 21043
 Phone: 443.325.7682 Fax: 443.325.7685
 Email: info@saaland.com

DESIGN BY: PS
 DRAWN BY: PS
 CHECKED BY: PS
 SCALE: 1" = 50'
 DATE: OCTOBER 25, 2011
 PROJECT #: 09-073
 SHEET #: 4 of 8

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 32025, EXPIRATION DATE: JUNE 20, 2013

SOILS LEGEND		
SYMBOL	NAME / DESCRIPTION	GROUP
C _o	CODORUS AND HATBORO SILT LOAMS, 0 TO 3 PERCENT SLOPES	C
GnB	GLADSTONE LOAM, 3 TO 8 PERCENT SLOPES	B
GnC	GLADSTONE LOAM, 8 TO 15 PERCENT SLOPES	B
GnB	GLENNVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES	C
GnB	GLENNVILLE-SAILE SILT LOAMS, 0 TO 8 PERCENT SLOPES	C
MaD	HATBORO-CODORUS SILT LOAMS, 0 TO 3 PERCENT SLOPES	D
MaD	MANOR LOAM, 15 TO 25 PERCENT SLOPES	B

LEGEND	
EXISTING CONTOUR	---
EXISTING SPOT ELEVATION	392.3
DIRECTION OF FLOW	→
EXISTING TREELINE	~
PROPOSED TREELINE	~
SOIL BOUNDARY	---
APPROXIMATE FOREST CONSERVATION EASEMENT	▨



APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
 CHIEF, DIVISION OF LAND DEVELOPMENT

DATE: 10/31/11

OWNER
 CHAPEL RISE, LTD. AND TIM SOSINSKI
 C/O TIM SOSINSKI
 11785 BRAGDON WOOD
 CLARKSVILLE, MARYLAND 21029
 410.730.2300

DEVELOPER
 GREEN GATEWAY, LLC
 C/O TIM SOSINSKI
 11785 BRAGDON WOOD
 CLARKSVILLE, MARYLAND 21029
 410.730.2300

CONCEPTUAL DRAINAGE AREA MAP
CHAPEL RISE
 LOTS 1 THRU 9
 A SUBDIVISION OF PARCEL 282 & 353 AND A RESUBDIVISION OF LOT 6,
 CHAPEL WOODS II, PLAT #9328

TAX MAP 29 GRID 13
 5TH ELECTION DISTRICT

PARCEL 26, 282 & 353
 HOWARD COUNTY, MARYLAND

Sill · Adcock & Associates · LLC
 Engineers · Surveyors · Planners

3300 North Ridge Road, Suite 160
 Bellicott City, Maryland 21043
 Phone: 443.325.7682 Fax: 443.325.7685
 Email: info@silladcock.com

DESIGN BY: PS
 DRAWN BY: PS
 CHECKED BY: PS
 SCALE: 1" = 50'
 DATE: OCTOBER 26, 2011
 PROJECT #: 09-073
 SHEET #: 5 of 8

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 32025, EXPIRATION DATE: JUNE 20, 2013.

MATCHLINE SEE SHEET SEVEN

MATCHLINE SEE SHEET FIVE

MATCHLINE SEE SHEET FIVE

NOTE: THERE IS NO GRADING TAKING PLACE ON THIS SHEET. THEREFORE NO STORMWATER MANAGEMENT IS PROPOSED.



N 570,300
E 1,334,400

N 569,800
E 1,334,400

N 569,800
E 1,335,800

GRAPHIC SCALE



(IN FEET)
1 INCH = 50 FEET

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

CHIEF, DEVELOPMENT ENGINEERING DIVISION
DATE: 10/21/11
CHIEF, DIVISION OF LAND DEVELOPMENT
DATE: 10/31/11

OWNER
CHAPEL RISE, LTD. AND TIM SOSINSKI
11795 BRAGDON WOOD
CLARKSVILLE, MARYLAND 21029
410.730.2300

DEVELOPER
GREEN GATEWAY, LLC
C/O TIM SOSINSKI
11795 BRAGDON WOOD
CLARKSVILLE, MARYLAND 21029
410.730.2300

CONCEPTUAL DRAINAGE AREA MAP
CHAPEL RISE
 LOTS 1 THRU 9
 A SUBDIVISION OF PARCEL 282 & 353 AND A RESUBDIVISION OF LOT 6,
 CHAPEL WOODS II, PLAT #9328
 TAX MAP 29 GRID 13 5TH ELECTION DISTRICT
 PARCEL 26, 282 & 353
 HOWARD COUNTY, MARYLAND

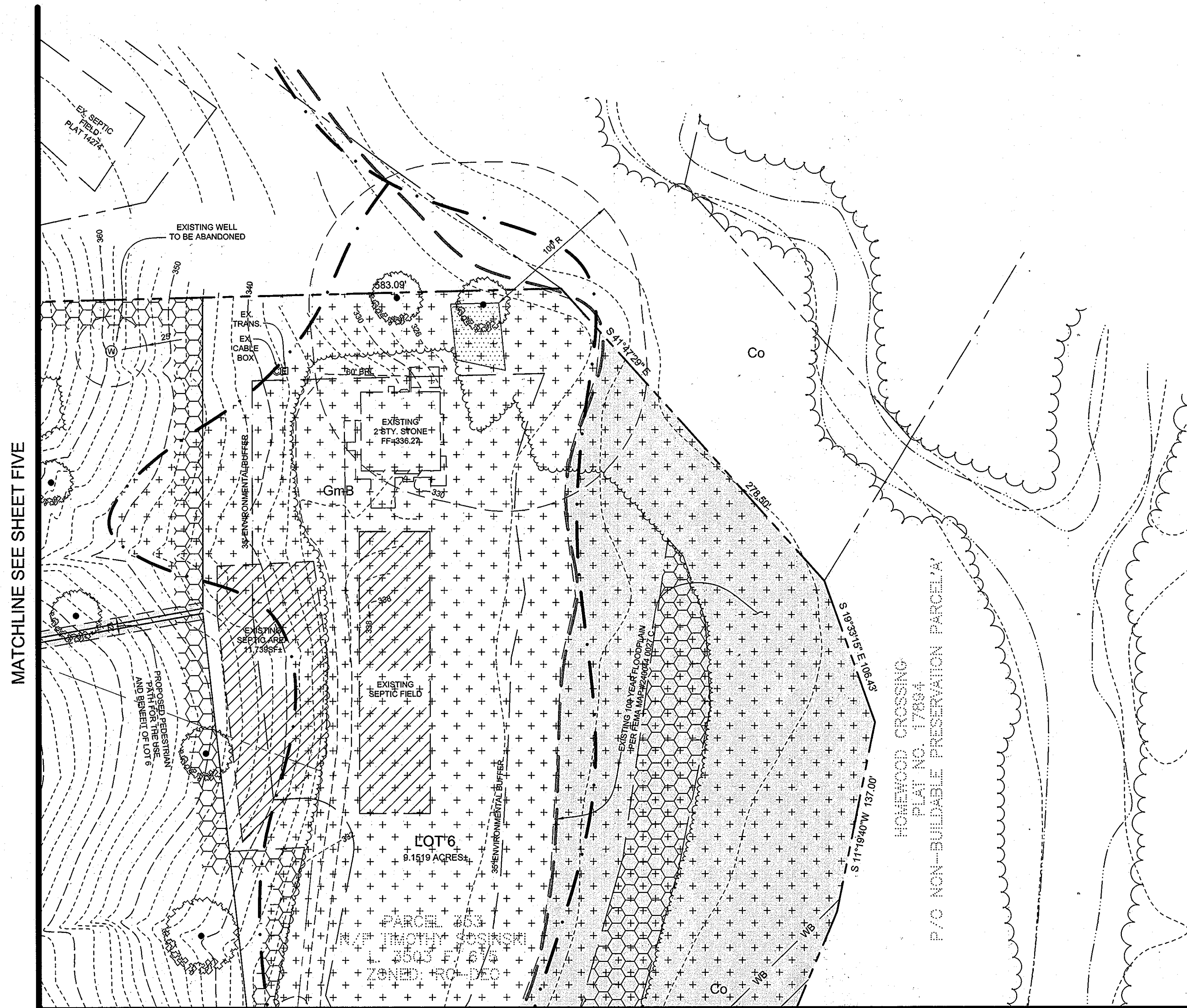
Sill · Adcock & Associates · LLC
 Engineers · Surveyors · Planners
 3300 North Ridge Road, Suite 160
 Ellicott City, Maryland 21043
 Phone: 443.325.7682 Fax: 443.325.7685
 Email: info@sasalland.com

DESIGN BY: PS
 DRAWN BY: PS
 CHECKED BY: PS
 SCALE: 1" = 50'
 DATE: OCTOBER 25, 2011
 PROJECT #: 09-073
 SHEET #: 6 of 8

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 32025, EXPIRATION DATE: JUNE 20, 2013



N 571,200
E 1,335,000



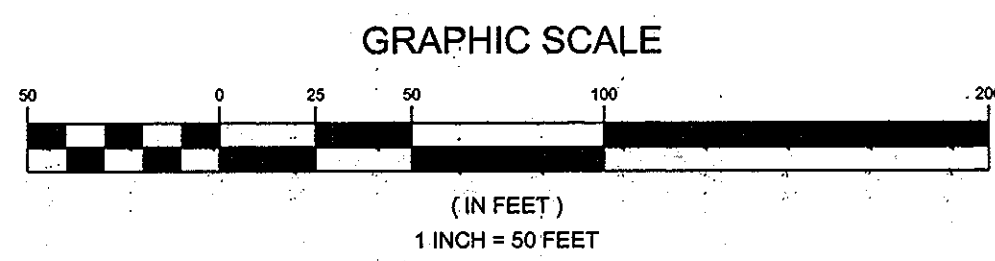
MATCHLINE SEE SHEET FIVE

MATCHLINE SEE SHEET SIX

E 1,335,000
N 570,400

N 570,400
E 1,336,000

NOTE: THERE IS NO GRADING TAKING PLACE ON THIS SHEET, THEREFORE NO STORMWATER MANAGEMENT IS PROPOSED.



APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
CHIEF, DEVELOPMENT ENGINEERING DIVISION
DATE: 10/31/11
CHIEF, DIVISION OF LAND DEVELOPMENT
DATE: 10/31/11

OWNER
CHAPEL RISE, LTD. AND TIM SOSINSKI
C/O TIM SOSINSKI
11795 BRAGDON WOOD
CLARKSVILLE, MARYLAND 21029
410.730.2300

DEVELOPER
GREEN GATEWAY, LLC
C/O TIM SOSINSKI
11795 BRAGDON WOOD
CLARKSVILLE, MARYLAND 21029
410.730.2300

CONCEPTUAL DRAINAGE AREA MAP
CHAPEL RISE
 LOTS 1 THRU 9
 A SUBDIVISION OF PARCEL 282 & 353 AND A RESUBDIVISION OF LOT 6,
 CHAPEL WOODS II, PLAT #9328
 TAX MAP 29 GRID 13 5TH ELECTION DISTRICT PARCEL 26, 282 & 353 HOWARD COUNTY, MARYLAND

Sill · Adcock & Associates · LLC
 Engineers · Surveyors · Planners
 3300 North Ridge Road, Suite 160
 Ellicott City, Maryland 21043
 Phone: 443.325.7682 Fax: 443.325.7685
 Email: info@sasland.com

DESIGN BY: PS
 DRAWN BY: PS
 CHECKED BY: PS
 SCALE: 1" = 50'
 DATE: OCTOBER 25, 2011
 PROJECT #: 09-073
 SHEET #: 7 of 8

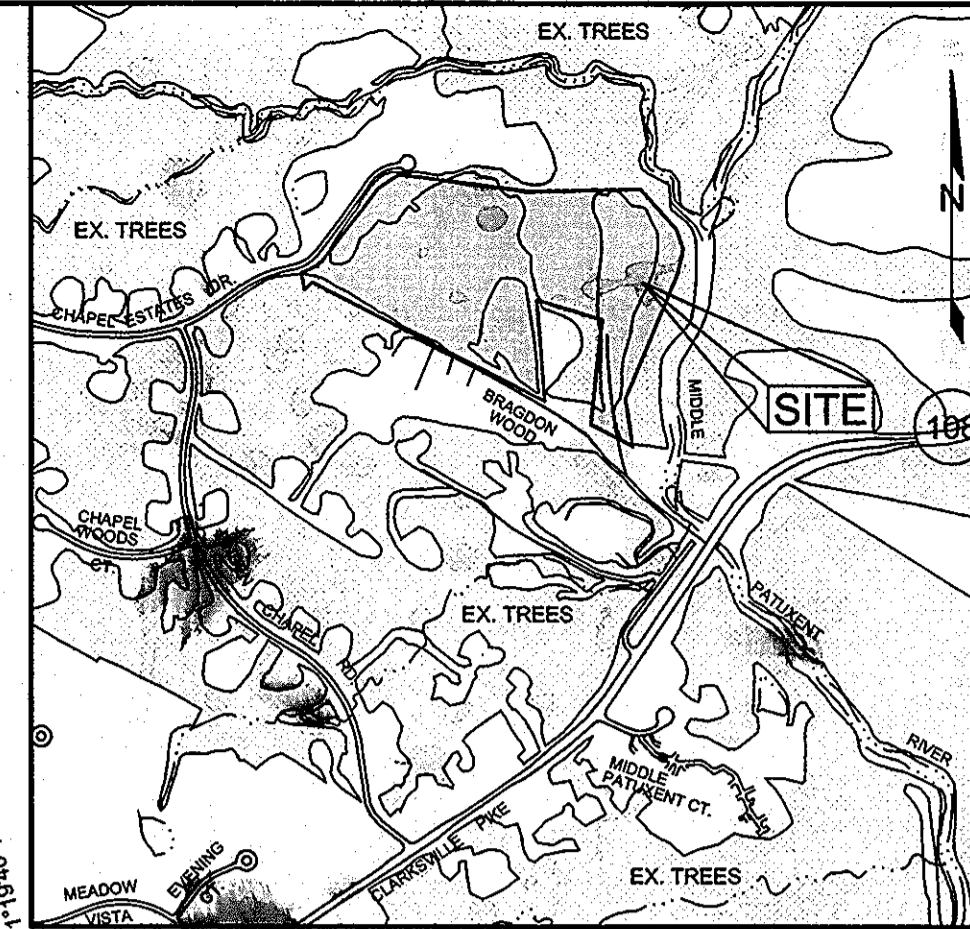
PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 32025, EXPIRATION DATE: JUNE 20, 2013

LEGEND

EXISTING CONTOUR
 EXISTING SPOT ELEVATION
 EXISTING TREELINE
 WETLANDS
 WETLAND BUFFER
 STREAM
 STREAM BUFFER
 SOIL BOUNDARY
 15.00% - 24.99% SLOPES
 25.00% AND GREATER SLOPES
 1' SOILS
 1' SOILS
 1' SOILS
 FOREST STAND BOUNDARY
 SPECIMEN TREE

MATCHLINE, THIS SHEET

GRAPHIC SCALE
 (IN FEET)
 1 INCH = 60 FEET



HOWARD COUNTY, MARYLAND ADC MAP 14 GRID H3
VICINITY MAP
 SCALE: 1"=1000'

FOREST STAND DESCRIPTIONS

FS1 - 1.7 Acres - A middle successional mixed oak / maple association. The stand has a somewhat well-established canopy dominated by tulip poplar, red oak, and red maple between 12" and 27" dbh and sub-dominated by hickories, cherries, and tulip poplar between 6" and 13" dbh. The approximate age of the stand is 40 to 50 years.

FS2 - 1.7 Acres - A middle successional tulip poplar association. The stand has a somewhat well-established canopy dominated by tulip poplar and red oaks between 12" and 27" dbh and sub-dominated by hickories, cherries, beech, white oak, and red maple between 6" and 18" dbh. The approximate age of the stand is 40 to 50 years.

FS3 - 6.3 Acres - A middle successional mixed oak / maple association. The stand has a somewhat well-established canopy dominated by tulip poplar, red oak, and red maple between 12" and 27" dbh and sub-dominated by hickories, cherries, beech, white oak, and red maple between 6" and 18" dbh. The approximate age of the stand is 40 to 50 years.

FS4 - 3.2 Acres - An early to middle successional mixed maple / poplar association. The stand has a somewhat well-established canopy dominated by white pine, pin oaks, hickories, tulip poplar, and red maples between 12" and 18" dbh and sub-dominated by elm, locust, cherries, boxwoods, and red oaks between 6" and 12" dbh. The approximate age of the majority of the stand is 25 to 40 years.

SOILS LEGEND

SYMBOL	NAME / DESCRIPTION	GROUP	K' FACTOR
Co	CODORUS AND HATBORO SILT LOAMS, 0 TO 3 PERCENT SLOPES	C	0.37
GbC	GLADSTONE LOAM, 3 TO 8 PERCENT SLOPES	B	0.20
GbB	GLADSTONE LOAM, 8 TO 15 PERCENT SLOPES	B	0.20
GbD	GLENNVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES	C	0.37
GbN	GLENNVILLE-BAILE SILT LOAMS, 0 TO 8 PERCENT SLOPES	C	0.37
Ha	HATBORO-CODORUS SILT LOAMS, 0 TO 3 PERCENT SLOPES	D	0.37
MaD	MANOR LOAM, 15 TO 25 PERCENT SLOPES	B	0.24

SPECIMEN TREE TABLE

Tree No.	Tree Type	Size (cal.)	Condition	Remarks
ST-1	Tulip Poplar	35"	Good	
ST-2	Tulip Poplar	34"	Good	
ST-3	Pin Oak	38"	Good / Fair	Deerberry 1/2 way up tree
ST-4	Cherry	34"	Good	Some dieback
ST-5	Dogwood	42"	Very Good	Beautiful canopy & branching
ST-6	Red Maple	48"	Good	
ST-7	Silver Maple	64"	Good	Beautiful canopy
ST-8	Sycamore	30"	Fair	Some dieback
ST-9	Red Maple	34"	Good	
ST-10	Red Oak	30"	Good	
ST-11	Tulip Poplar	43"	Good	
ST-12	Tulip Poplar	44"	Good / Fair	Broken branches, Poison Ivy 3/4 way up tree
ST-13	Tulip Poplar	50"	Good	Large canopy but asymmetrical
ST-14	Tulip Poplar	50"	Good	
ST-15	Tulip Poplar	37"	Good	
ST-16	Tulip Poplar	33"	Good	
ST-17	Tulip Poplar	31"	Good	
ST-18	Tulip Poplar	30"	Fair	Poison Ivy 1/2 way up tree
ST-19	Tulip Poplar	37"	Good	Nice canopy

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
 DATE: 10/21/11



OWNER
 CHAPEL RISE, LTD. AND TIM SOSINSKI
 11795 BRAGDON WOOD
 CLARKSVILLE, MARYLAND 21029
 410.730.2300

DEVELOPER
 GREEN GATEWAY, LLC
 C/O TIM SOSINSKI
 11795 BRAGDON WOOD
 CLARKSVILLE, MARYLAND 21029
 410.730.2300

Sill · Adcock & Associates · LLC
 Engineers · Surveyors · Planners
 3300 North Ridge Road, Suite 160
 Elkridge City, Maryland 21043
 Phone: 443.325.7682 Fax: 443.325.7685
 Email: info@silladcock.com

DESIGN BY: SJT
 DRAWN BY: SJT
 CHECKED BY: SJT
 SCALE: AS SHOWN
 DATE: OCTOBER 22, 2011
 PROJECT #: 09-073
 SHEET #: 8 OF 8

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 38386, EXPIRATION DATE: JANUARY 12, 2012