

GENERAL NOTES

- SUBJECT PROPERTY ZONED R-20 PER 10/06/2013 COMPREHENSIVE ZONING PLAN.
- TOTAL AREA OF PROPERTY:
LOT 13 = 21,326 S.F. OR 0.4896 AC.±
LOT 14 = 22,702 S.F. OR 0.5212 AC.±
- PUBLIC WATER AND PUBLIC SEWER WILL BE USED WITHIN THIS SITE.
- THE EXISTING 3/4 INCH WATER HOUSE CONNECTION LOCATED ON LOT 13 IS TO BE ABANDONED AT THE WATER MAIN. THE ABANDONMENT OF EXISTING WATER SERVICE CONNECTION SHALL BE AS SPECIFIED UNDER SECTION 1015.03 OF THE STANDARD SPECIFICATIONS. REMOVAL OF THE EXISTING CORPORATION STOP OR TAPPING SADDLE REQUIRES A SCHEDULED SHUTDOWN OF THE WATER MAIN. THE EXISTING CORPORATION STOP SHALL BE REMOVED FROM FROM THE WATER MAIN AND THE PIPE REPAIRED WITH A COUNTY APPROVED STAINLESS STEEL FULL CIRCLE REPAIR CLAMP SUCH AS FORD METER FS2, MUELLER 550 OR ROMAC SS2 SERIES. THE EXISTING 4 INCH CAST IRON SEWER HOUSE CONNECTION IS TO BE INSPECTED BY CLOSED CIRCUIT TELEVISION (CCTV) TO DETERMINE IF IT SHOULD BE REPLACED.
- THE BOUNDARY SHOWN HEREON IS BASED ON A FIELD RUN BOUNDARY SURVEY PREPARED BY SHANBERGER AND LANE IN MARCH, 2017.
- THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL, WHICH IS BASED ON THE MARYLAND STATE PLANE COORDINATE SYSTEM. HOWARD COUNTY MONUMENTS NUMBERS 17FB AND 18DA WERE USED FOR THIS PROJECT.
- THE TOPOGRAPHY SHOWN ON SITE WAS FIELD RUN BY SHANBERGER AND LANE IN MARCH, 2017. THE EXISTING TOPOGRAPHY SHOWN OUTSIDE THE SITE IS BASED ON HOWARD COUNTY AERIAL TOPOGRAPHY FLOWN IN 2004. THE CONTOURS SHOWN ARE AT TWO-FOOT CONTOUR INTERVALS.
- PROPERTY ADDRESS:
LOT 13 = 2821 MONTCLAIR ROAD, ELLICOTT CITY, MARYLAND 21043
LOT 14 = 2825 MONTCLAIR ROAD, ELLICOTT CITY, MARYLAND 21043
- REFERENCES:
LOT 13: LIBER 17942, FOLIO 229
LOT 14: LIBER 17539, FOLIO 91
- PLAT REFERENCE: LOT 13 & LOT 14, BLOCK E, SECTION 2, CHESTNUT HILL ESTATES PLAT NO. 21381
- THERE IS AN EXISTING HISTORIC HOUSE (CIRCA 1957) THAT IS LOCATED ON BOTH LOTS 13 & 14 AND SHALL BE RAZED.
- THE SOILS SHOWN HAVE BEEN TAKEN FROM THE US DEPARTMENT OF AGRICULTURE, NATURAL RESOURCE CONSERVATION SERVICE, WEB SOIL SURVEY WEBSITE.
- THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP, WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT.
- A FIELD REVIEW PERFORMED BY SILL ENGINEERING GROUP, LLC IN JUNE, 2017 HAS CONFIRMED THAT NO WETLAND, FLOODPLAINS, STREAMS OR BUFFERS ARE PRESENT ON THE PROPERTY.
- THERE ARE NO FLOODPLAINS, CEMETERIES OR CONTIGUOUS SLOPES OF 25% OR GREATER WITHIN THE PROJECT BOUNDARY.
- THIS PLAN IS EXEMPT FROM A FOREST CONSERVATION PLAN AND FOREST STAND DELINEATION UNDER SECTION 16.1202(b)(iv) BECAUSE NO NEW LOTS ARE BEING CREATED.
- STORMWATER MANAGEMENT OBLIGATIONS FOR LOT 13 WILL BE MET BY THE USE OF THREE (3) DRYWELLS (M-5), A MICRO-BIORETENTION (M-6) FACILITY AND NON-ROOFTOP DISCONNECT. STORMWATER MANAGEMENT OBLIGATIONS FOR LOT 14 WILL BE MET BY THE USE OF FIVE (5) DRYWELLS (M-5) AND NON-ROOFTOP DISCONNECT. ON LOT FACILITIES SHALL BE OWNED AND MAINTAINED BY THE LOT OWNER.
- 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 INFORMATIONAL PURPOSES ONLY.
- DRIVEWAY(S) SHALL BE PROVIDED PRIOR TO ISSUANCE OF A USE AND OCCUPANCY PERMIT FOR ANY NEW DWELLINGS TO ENSURE SAFE ACCESS FOR FIRE AND EMERGENCY VEHICLES PER THE FOLLOWING REQUIREMENTS:
1) WIDTH - 12 FEET (16 FEET SERVING MORE THAN ONE RESIDENCE);
2) SURFACE - SIX (6") INCHES OF COMPACTED CRUSHER RUN BASE WITH TAR AND CHIP COATING (1-1/2" MINIMUM);
3) GEOMETRY - MAXIMUM 15% GRADE, MAXIMUM 10% GRADE CHANGE AND 45-FOOT TURNING RADIUS;
4) STRUCTURES (CULVERTS/BRIDGES) - CAPABLE OF SUPPORTING 25 GROSS TONS (H25-LOADING);
5) DRAINAGE ELEMENTS - CAPABLE OF SAFELY PASSING 100 YEAR FLOOD WITH NO MORE THAN 1 FOOT DEPTH OVER DRIVEWAY SURFACE;
6) MAINTENANCE - SUFFICIENT TO ENSURE ALL WEATHER USE
- TBR = TO BE REMOVED
- IN ACCORDANCE WITH SECTION 128.0 OF THE HOWARD COUNTY ZONING REGULATIONS, BAY WINDOWS, CHIMNEYS OR EXTERIOR STAIRWAYS NOT MORE THAN 16 FEET IN WIDTH MAY PROJECT NOT MORE THAN 4 FEET INTO ANY SETBACKS. PORCHES OR DECKS, OPEN OR ENCLOSED MAY PROJECT NOT MORE THAN 10 FEET INTO THE FRONT OR REAR YARD SETBACK.
- LIMIT OF DISTURBANCE = 42,425 SF. OR 0.9739 AC.±
- ASSOCIATED DPZ FILE NOS.: F-11-033, 24-4574-D, 20 W&S, PLAT BOOK 6, FOLIO 1, ECP-18-001
- LANDSCAPING IS NOT REQUIRED AS LOTS 13 AND 14 ARE INTERNAL TO THE CHESTNUT HILL SUBDIVISION.

STORMWATER MANAGEMENT NOTES & DESIGN NARRATIVE

BELOW IS A LIST TO DESCRIBE THE STORMWATER MANAGEMENT REQUIREMENTS AND ACHIEVEMENTS FOR THE SITE PER THE 2000 MARYLAND STORMWATER DESIGN MANUAL, VOLUMES I AND II, AS AMENDED BY THE STORMWATER MANAGEMENT ACT OF 2007.

- ENVIRONMENTALLY SENSITIVE AREAS (STREAMS AND STEEP SLOPES) DO NOT EXIST ON-SITE IN THE AREA OF DEVELOPMENT.
- TO THE GREATEST EXTENT PRACTICABLE THE NATURAL FLOW PATTERNS OF THE SITE HAVE BEEN MAINTAINED.
- IMPERVIOUS AREAS HAVE BEEN REDUCED BY THE USE OF THE NARROWEST DRIVE AISLE CONNECTION TO THE EXISTING STREET AND BY POSITIONING THE BUILDING AS CLOSE TO THE STREET AS THE SETBACKS AND GRADES ALLOW.
- A STABILIZED CONSTRUCTION ENTRANCE AND SUPER SILT FENCES ARE USED AS SEDIMENT AND EROSION CONTROL.
- THE STORMWATER MANAGEMENT OBLIGATIONS FOR LOT 13 WILL BE MET BY THE USE OF THREE (3) DRYWELLS (M-5), A MICRO-BIORETENTION (M-6) FACILITY AND NON-ROOFTOP DISCONNECT. THE STORMWATER MANAGEMENT OBLIGATION FOR LOT 14 WILL BE MET BY THE USE OF FIVE (5) DRYWELLS (M-5) AND NON-ROOFTOP DISCONNECT. THE DRYWELLS ARE DESIGNED UNDER REQUIREMENTS SET FORTH IN SECTION 5.1 OF MARYLAND STORMWATER DESIGN MANUAL.

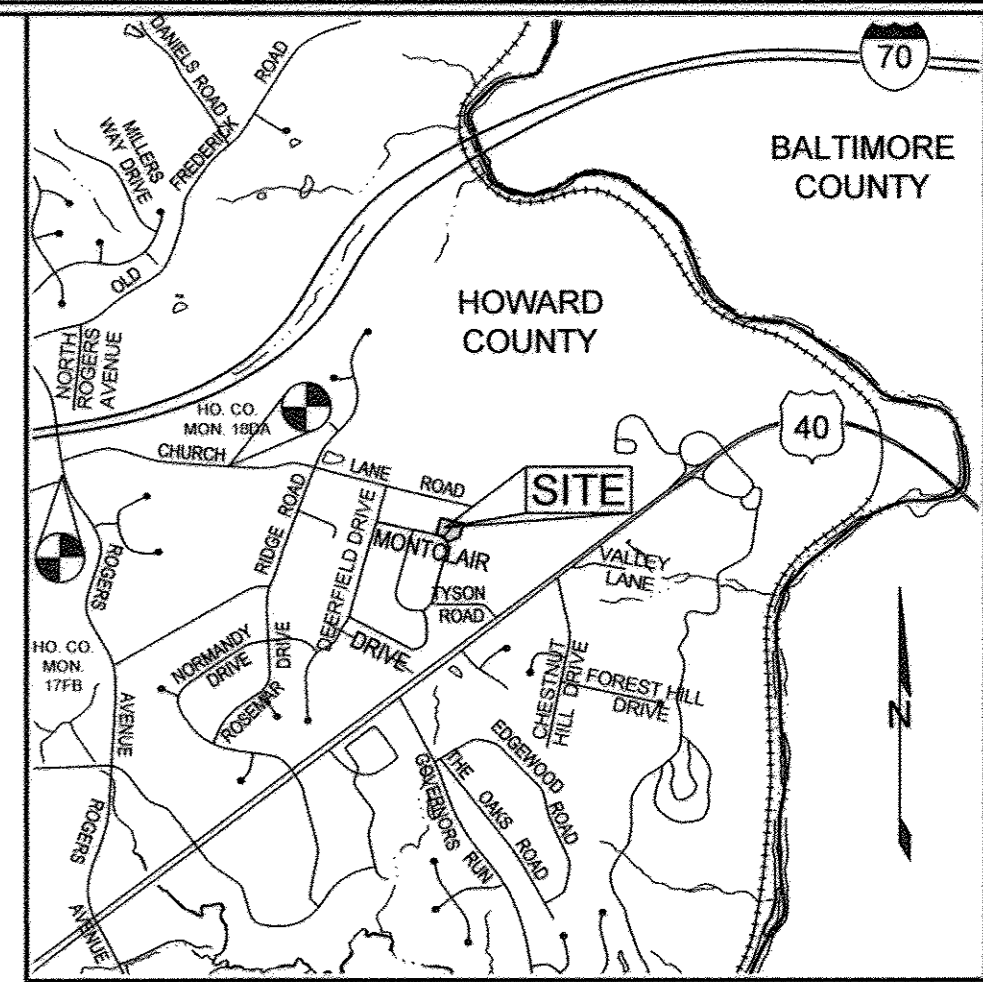
SITE DEVELOPMENT PLAN

CHESTNUT HILL ESTATES

SECTION TWO, BLOCK E

LOT 13 & LOT 14

HOWARD COUNTY, MARYLAND



BENCHMARKS				
NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
17FB	593,214.401	1,365,669.05	456.316	4.5' NORTH OF RODGERS AVENUE
18DA	593,334.37	1,367,562.23	483.241	5' NORTH OF CHURCH LANE, 11.5' WEST OF HOUSE # 8432 MAIL BOX

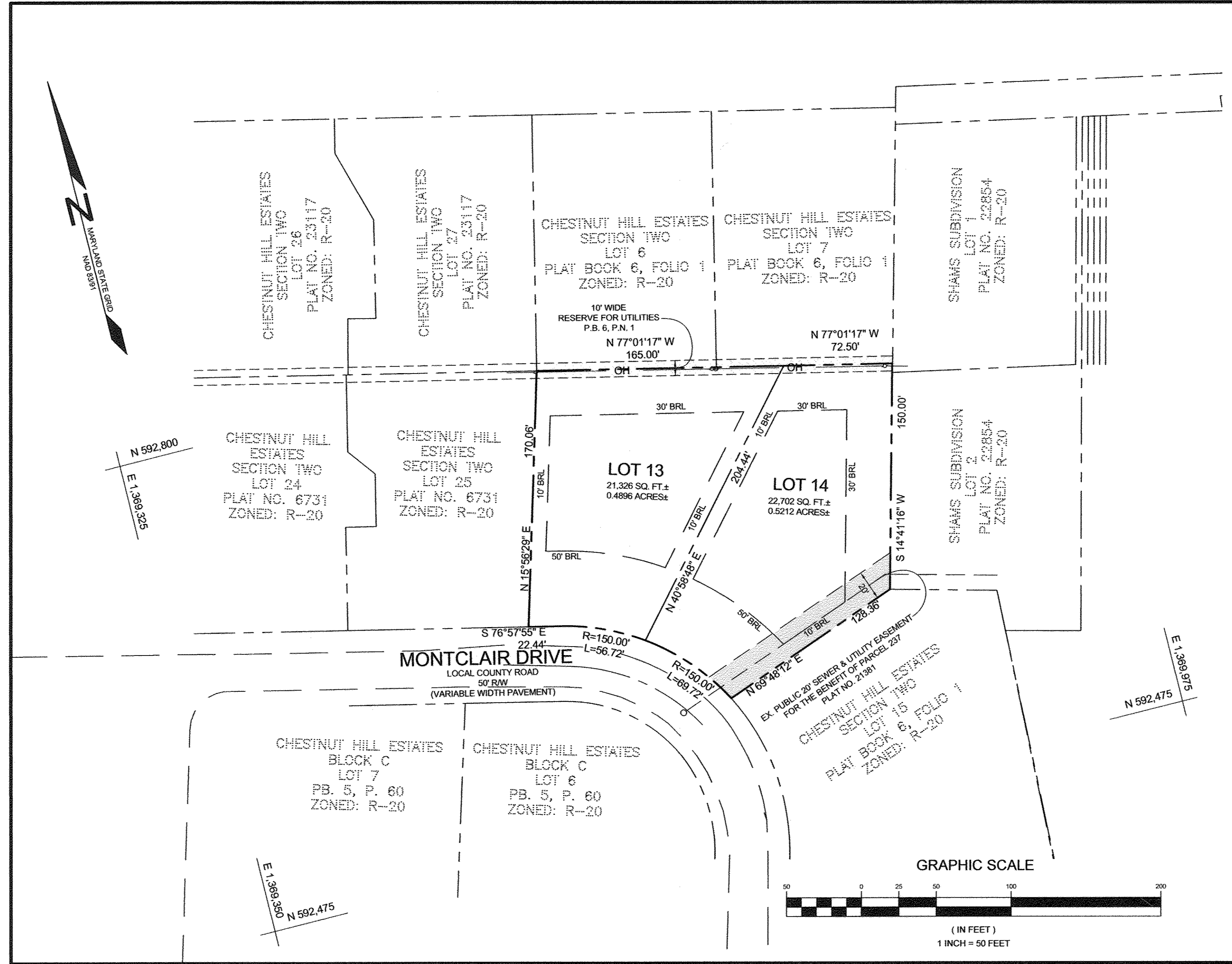
SITE ANALYSIS DATA CHART	
TOTAL PROJECT AREA:	44,028 SF OR 1.01 ACRES±
LIMIT OF DISTURBANCE:	0.97 ACRES±
ZONING DESIGNATION:	R-20
PROPOSED SITE USE:	RESIDENTIAL
TOTAL NUMBER OF UNITS ALLOWED:	2
TOTAL NUMBER OF UNITS PROPOSED:	2
NUMBER OF REQUIRED PARKING SPACES:	2 SPACES/SINGLE FAMILY HOUSE + 0.5 SPACE/UNIT FOR VISITOR
NUMBER OF PROVIDED PARKING SPACES:	2 SPACES/SINGLE FAMILY HOUSE + 0.5 SPACE/UNIT FOR VISITOR
TOTAL BUILDING COVERAGE:	15% OR 0.15 ACRES±
IMPERVIOUS AREA:	0.25 ACRES±
GREEN OPEN AREA (LAWN):	0.76 ACRES±
HIGHLY ERODIBLE SOILS:	0.21 ACRES±
DPZ REFERENCES:	F-11-033, 24-4574-D, 20 W&S, PLAT BOOK 6, FOLIO 1, ECP-18-001

NOTE: (1) HIGHLY ERODIBLE SOILS ARE THOSE SOILS WITH A SLOPE GREATER THAN 15 PERCENT OR THOSE SOILS WITH A SOIL ERODIBILITY FACTOR 'K' GREATER THAN 0.35 AND WITH A SLOPE GREATER THAN 5 PERCENT.

PERMIT INFORMATION CHART				
PROJECT NAME	SECTION	PARCEL #/LOT #		
CHESTNUT HILL ESTATES	SECTION TWO, BLOCK E	LOTS 13 & 14		
LIBER/FOLIO	GRID #	ZONING	TAX MAP #	ELECT. DIS.
LOT 13: 17942/229 LOT 14: 17539/91	13	R-20	18	2ND
			WATER CODE	SEWER CODE
			CONTRACT 20 W&S	CONTRACT 20 W&S

ADDRESS CHART	
LOT	STREET ADDRESS
13	2821 MONTCLAIR DRIVE
14	2825 MONTCLAIR DRIVE

SHEET INDEX	
SHEET NO.	DESCRIPTION
1	COVER SHEET
2	DEMOLITION PLAN
3	GRADING, LAYOUT, SEDIMENT & EROSION CONTROL AND STORMWATER MANAGEMENT PLAN
4	SEDIMENT & EROSION CONTROL NOTES & DETAILS
5	DRAINAGE AREA MAPS AND STORMWATER MANAGEMENT DETAILS



APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
Valerie Miller 5-31-18
 DIRECTOR DATE
Chad Edwards 5-25-18
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE
Karl St. Louis 5-30-18
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

OWNER LOT 13
 KALYAN BOLLA & SAILAJA KILAMBI
 3371 SONIA TRAIL
 ELLICOTT CITY, MARYLAND 21043
 C/O PATRICK COSTELLO: 410-203-9980

OWNER LOT 14
 WOODSTOCK LAND LLC
 3230 BETHANY LANE
 ELLICOTT CITY, MARYLAND 21042
 410-203-9980

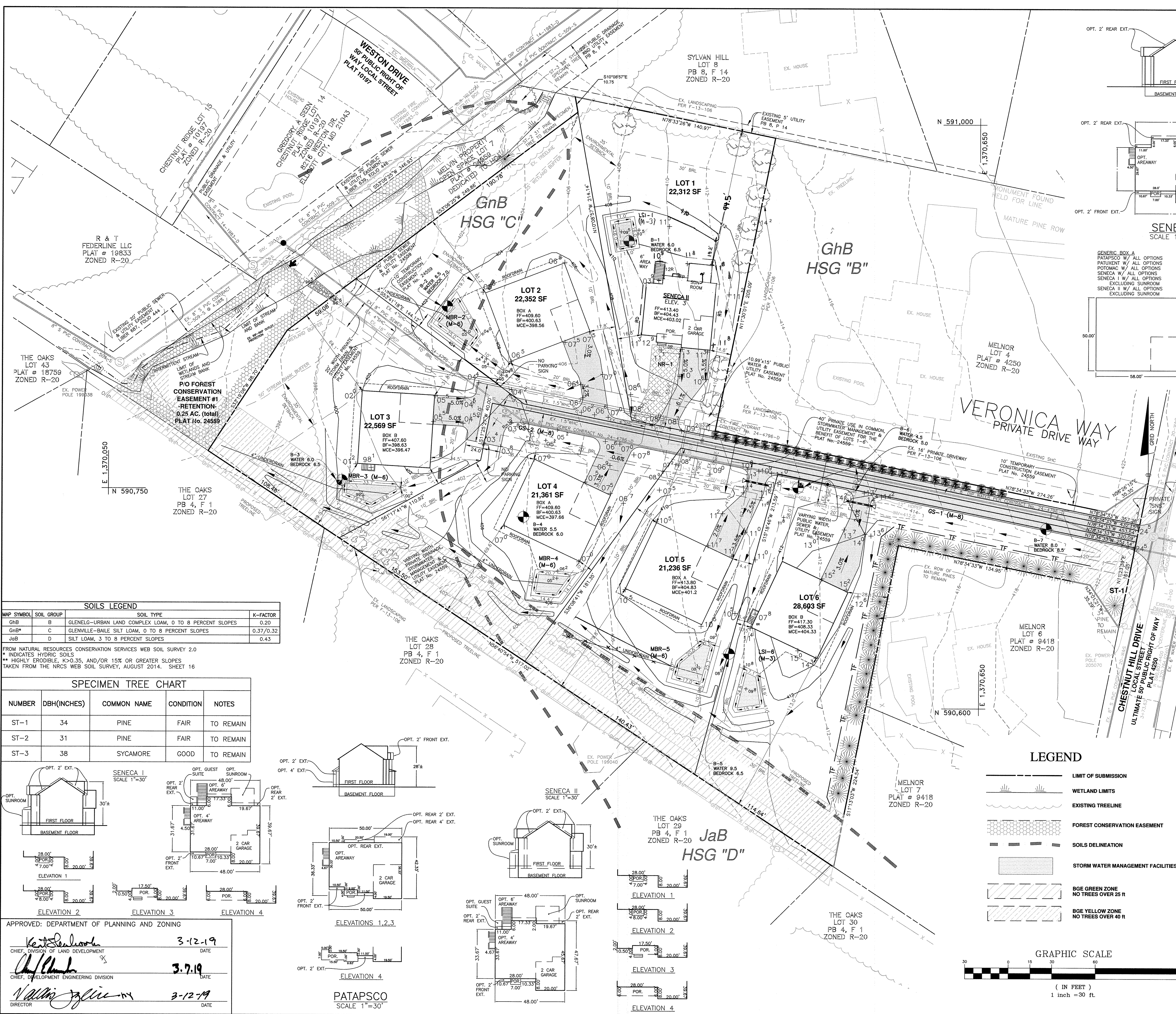
DEVELOPER
 WOODSTOCK LAND LLC
 3230 BETHANY LANE
 ELLICOTT CITY, MARYLAND 21042
 410-203-9980

COVER SHEET
CHESTNUT HILL ESTATES
 SECTION TWO, BLOCK E
 LOT 13 & LOT 14

TAX MAP 18 GRID 13 ZONED: R-20 PARCEL 178
 HOWARD COUNTY, MARYLAND

	SILL ENGINEERING GROUP, LLC 11130 Dovesdale Court, Suite 200 Marriottsville, Maryland 21104 Phone: 410.325.3076 Fax: 410.696.2022 Email: info@sillengineering.com Civil Engineering for Land Development	DESIGN BY: PS
	DRAWN BY: AEA CHECKED BY: PS SCALE: AS SHOWN DATE: MAY 7, 2018 PROJECT #: 17-008 SHEET #: 1 of 5	

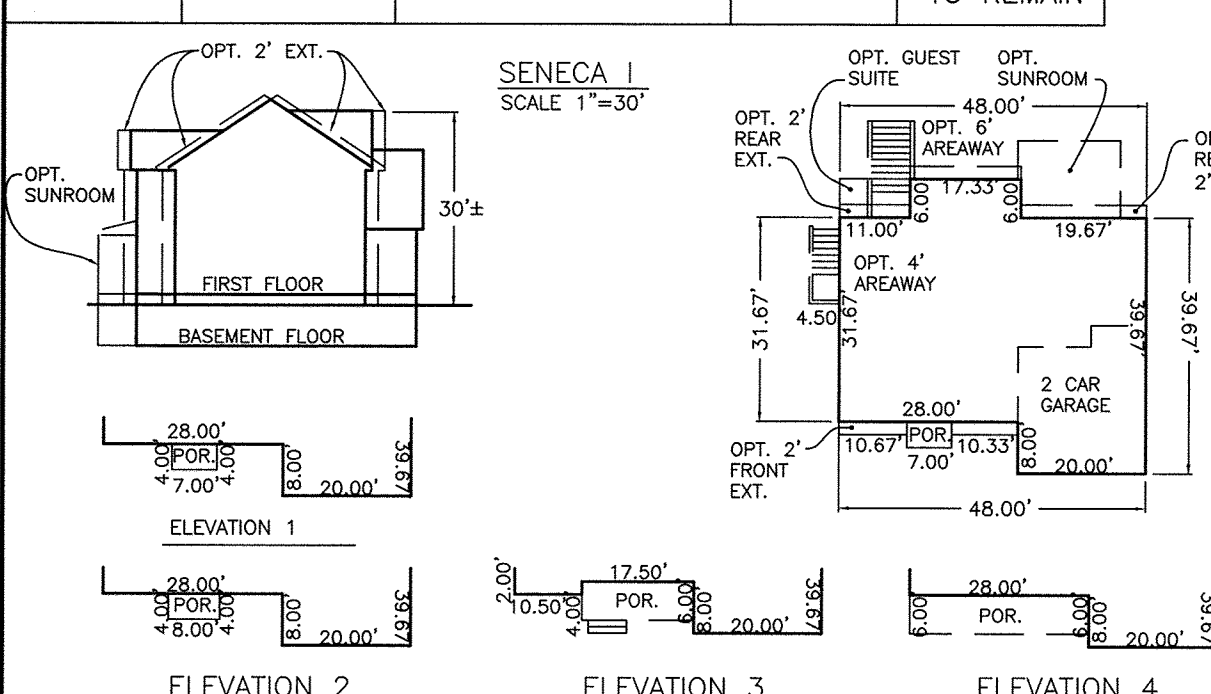
PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 38225, EXPIRATION DATE: JUNE 20, 2019



MAP SYMBOL	SOIL GROUP	SOIL TYPE	K-FACTOR
GhB	B	GLENELG-URBAN LAND COMPLEX LOAM, 0 TO 8 PERCENT SLOPES	0.20
GnB*	C	GLENVILLE-BAILE SILT LOAM, 0 TO 8 PERCENT SLOPES	0.37/0.32
JaB	D	SILT LOAM, 3 TO 8 PERCENT SLOPES	0.43

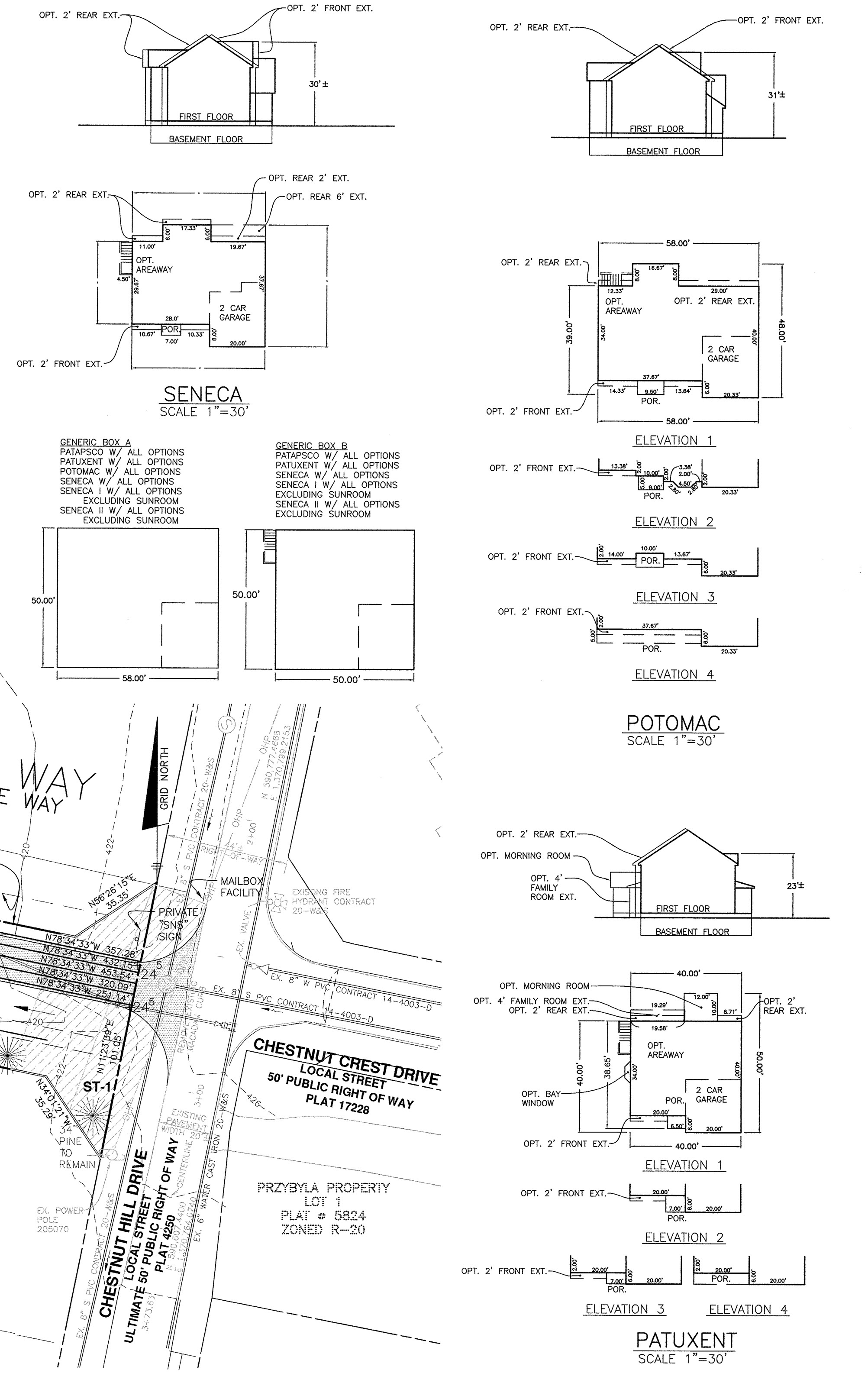
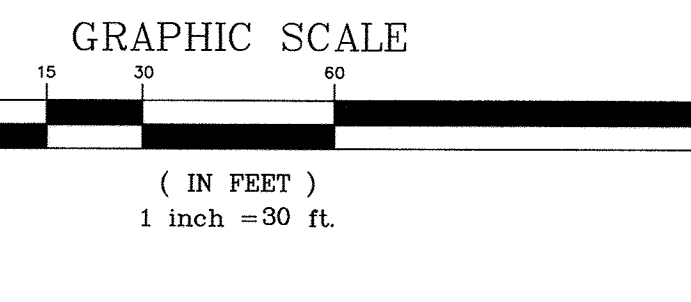
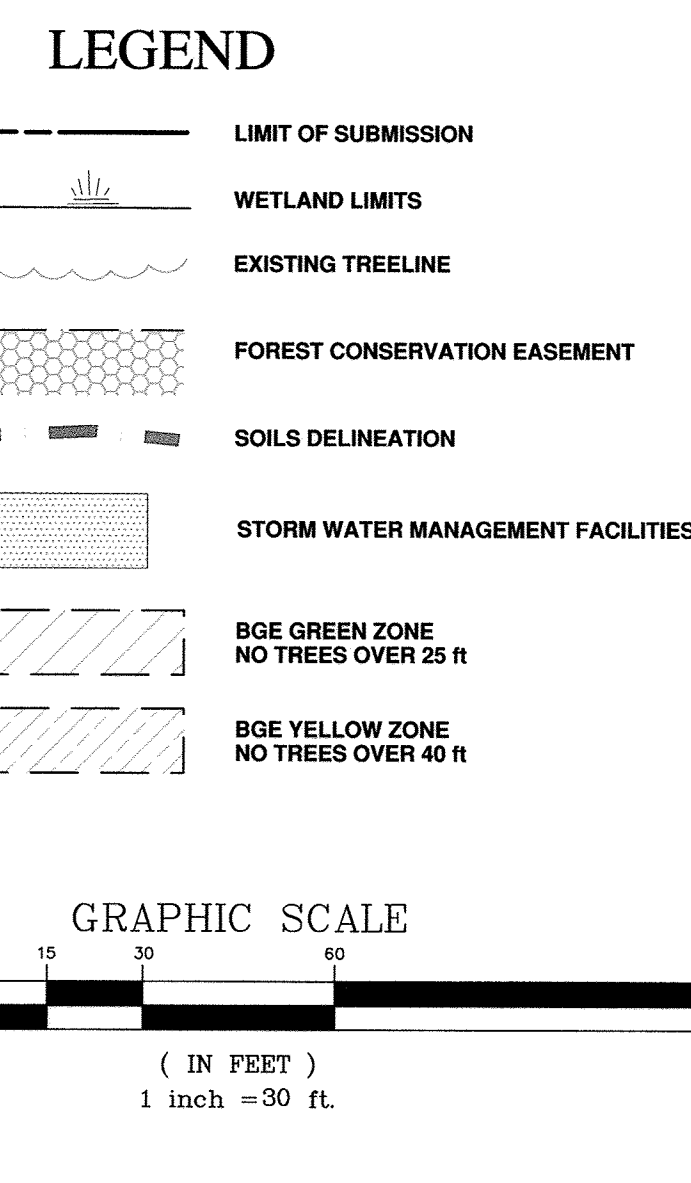
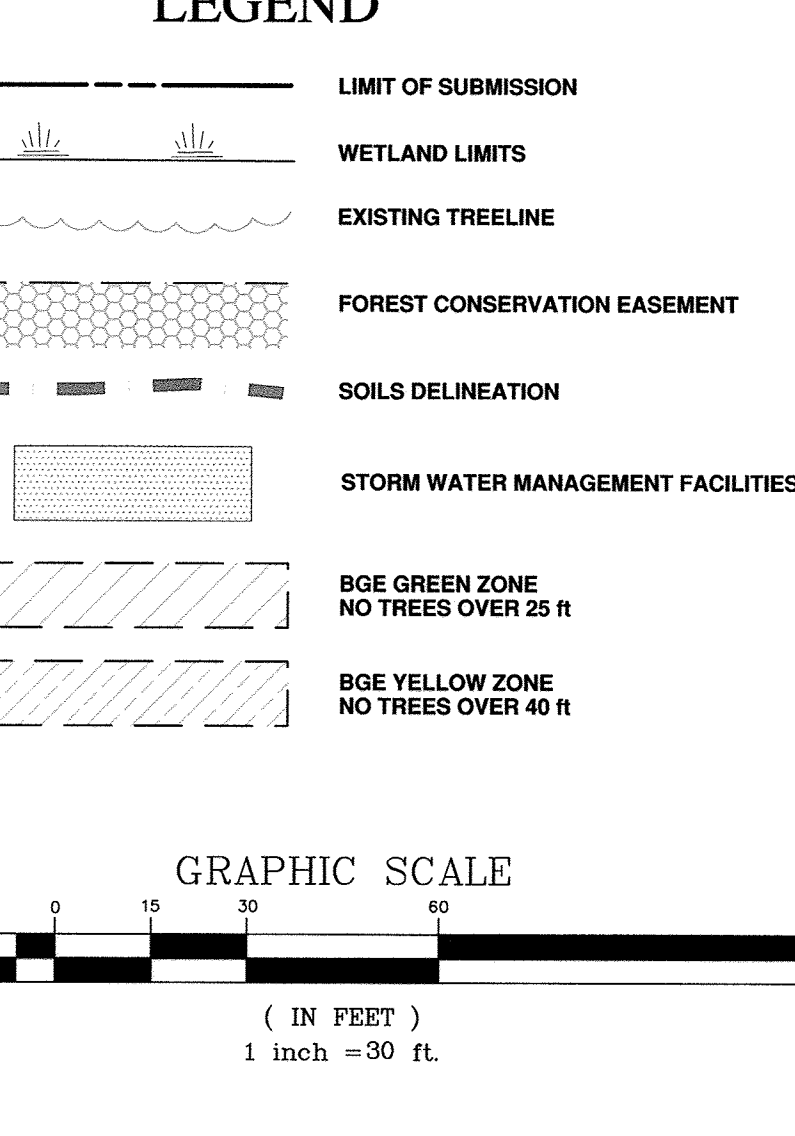
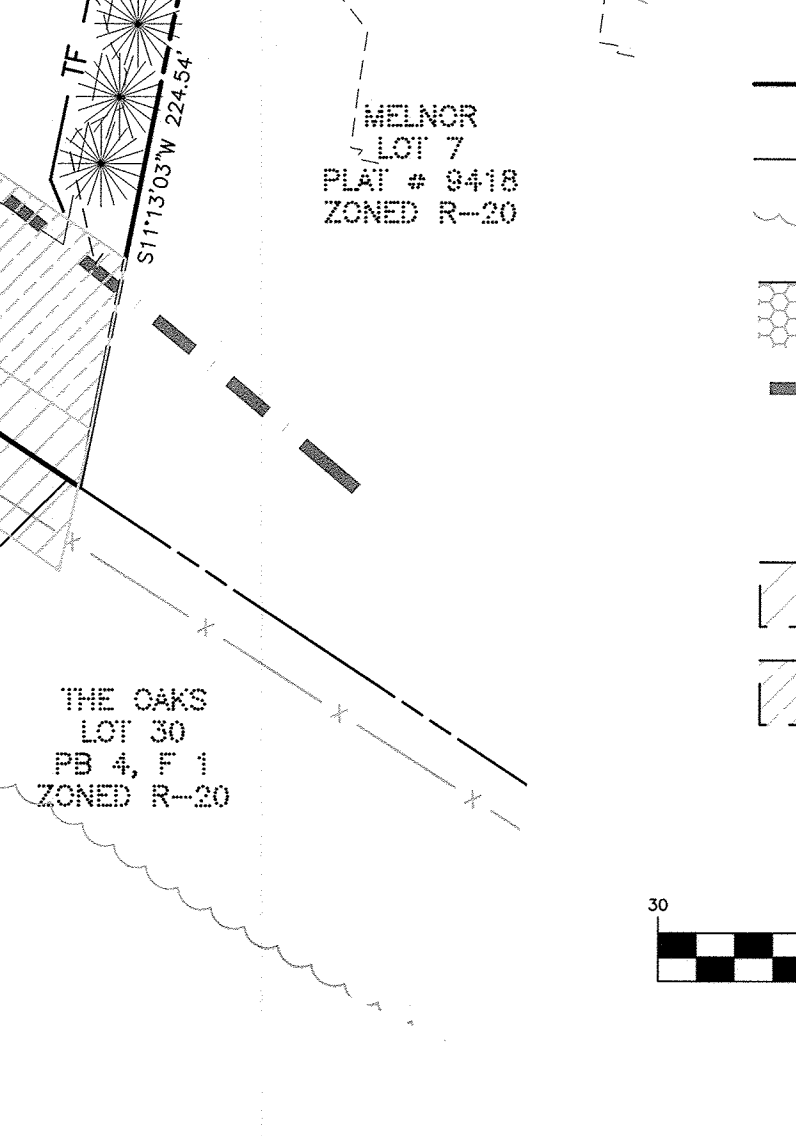
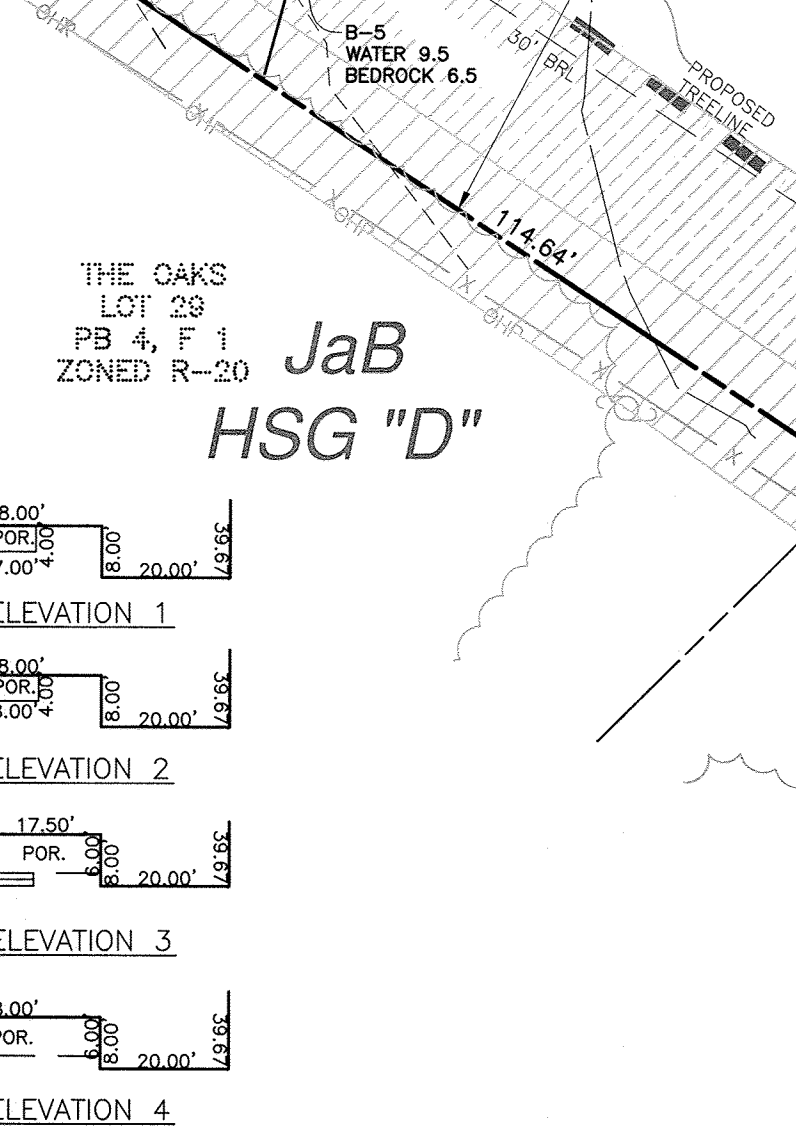
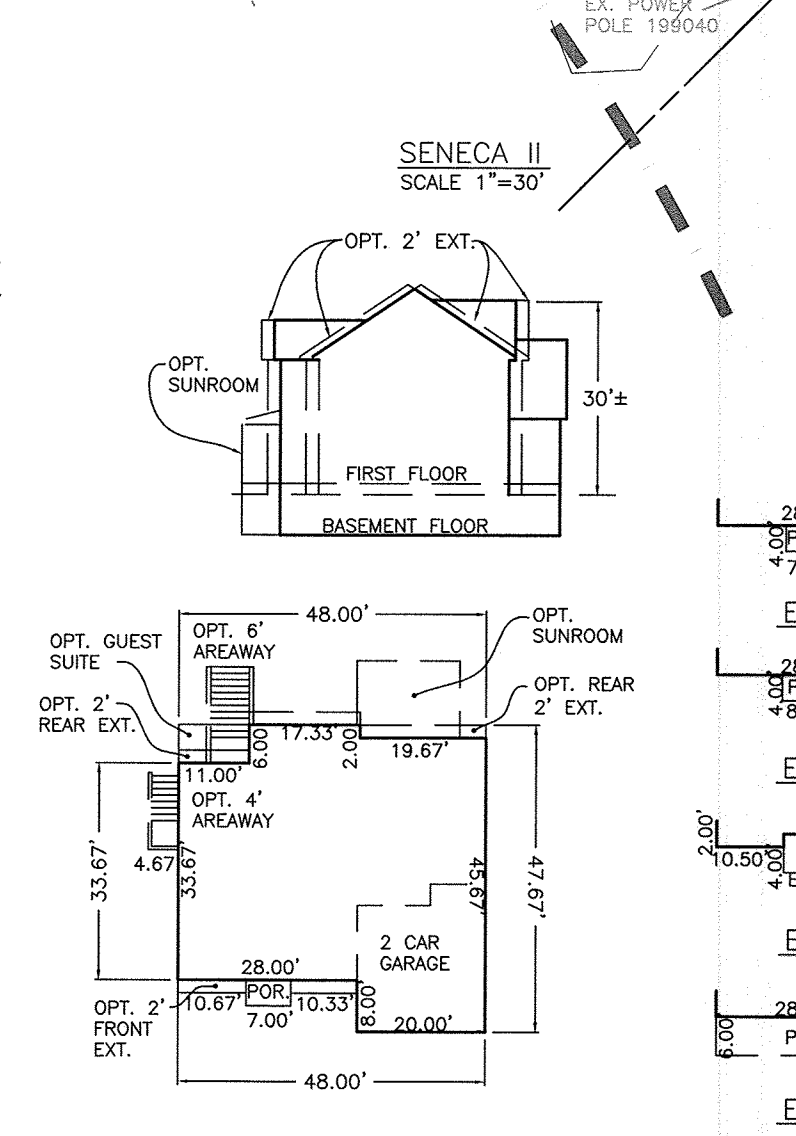
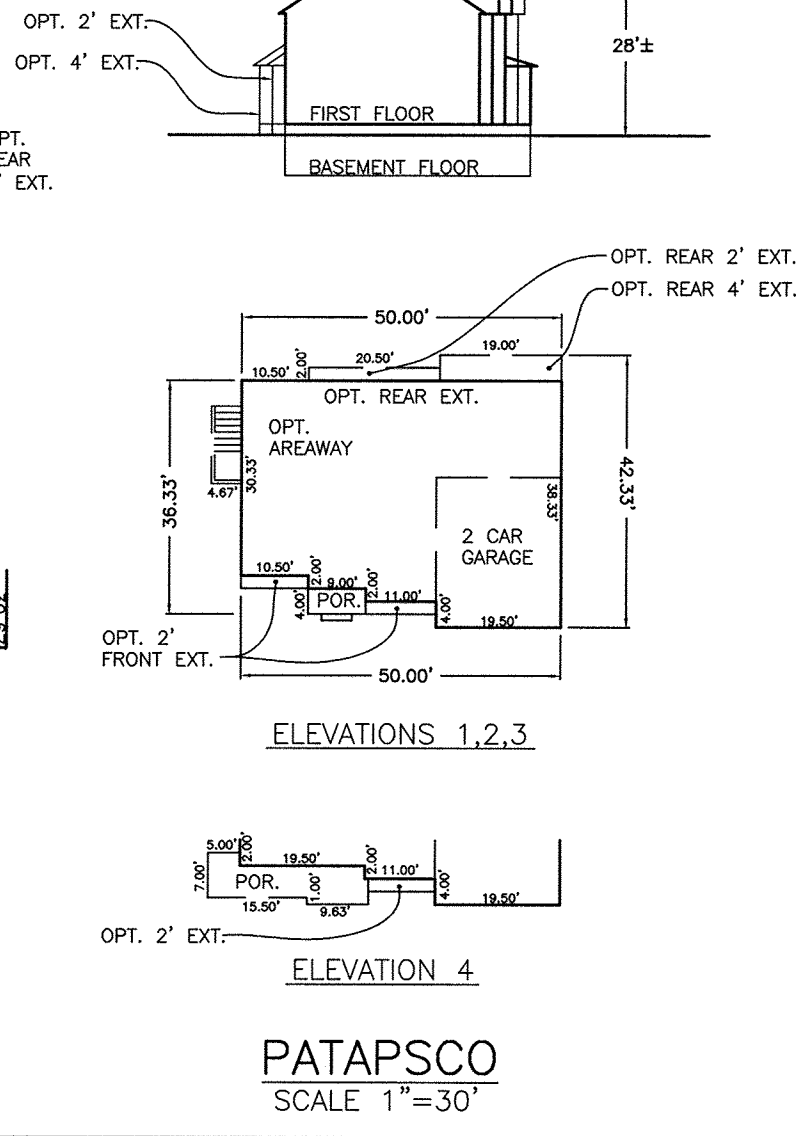
FROM NATURAL RESOURCES CONSERVATION SERVICES WEB SOIL SURVEY 2.0
 * INDICATES HYDRIC SOILS
 ** HIGHLY ERODIBLE, K>0.35, AND/OR 15% OR GREATER SLOPES
 TAKEN FROM THE NRCS WEB SOIL SURVEY, AUGUST 2014. SHEET 16

NUMBER	DBH(INCHES)	COMMON NAME	CONDITION	NOTES
ST-1	34	PINE	FAIR	TO REMAIN
ST-2	31	PINE	FAIR	TO REMAIN
ST-3	38	SYCAMORE	GOOD	TO REMAIN



APPROVED: DEPARTMENT OF PLANNING AND ZONING
 Chief, Division of Land Development
 Chief, Development Engineering Division
 Director

3-12-19
 3.7.19
 3-12-19



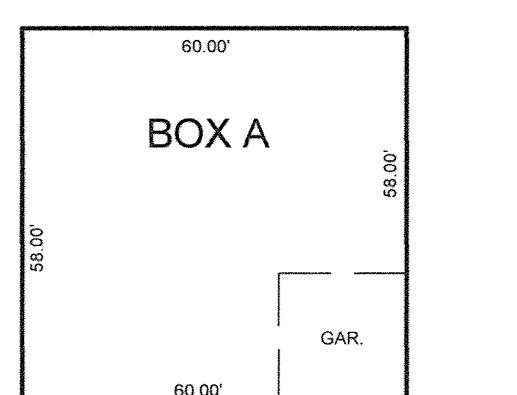
2	7/11/2019	REVISE LOT 1 TO SENECA II
1	2/8/2019	ADD SENECA I&II, ADJUST HOUSE BOX, SHOW SPECIFIC HOUSE ON LOT 1, REVISE LOT 6 CULVERT, AND ADJUST GRADE OVER LOT 4 SHC.
NO.	DATE	REVISION

BENCHMARK ENGINEERING, INC.
 8480 BALTIMORE NATIONAL PIKE SUITE 315 ELLICOTT CITY, MARYLAND 21043
 (P) 410-465-6105 (F) 410-465-6644
 WWW.BEI-CIVILENGINEERING.COM

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. 445577, Expiration Date: 06-08-2020.

John W. Clay
 PROFESSIONAL ENGINEER

OWNER/BUILDER:		MELVIN PROPERTY LOTS 1 thru 6	
PATAPSCO BUILDERS, LLC 5850 WATERLOO RD., SUITE 140 COLUMBIA, MD 21045 240-375-1052		TAX MAP: 18	GRID: 20
		PARCEL: 351	ZONED: R-20
		ELECTION DISTRICT NO. 2 HOWARD COUNTY, MARYLAND	
REVISED RESIDENTIAL SITE DEVELOPMENT PLAN			
DATE: OCTOBER, 2018	BEI PROJECT NO: 2515	SCALE: AS SHOWN	SHEET 2 OF 6
DESIGN: JMC	DRAWN: MDP		

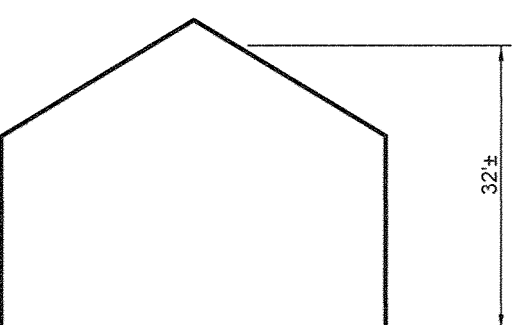


BOX A

KIRKWOOD ELEVATION A
 CRAFTSMAN: ALL OPTIONS
 CLASSIC: ALL OPTIONS
 SIGNATURE: ALL OPTIONS

WELLINGTON CRAFTSMAN: ALL OPTIONS
 CLASSIC: ALL OPTIONS
 SIGNATURE: ALL OPTIONS

RIDGEWOOD CRAFTSMAN: ALL OPTIONS
 CLASSIC: ALL OPTIONS
 SIGNATURE: ALL OPTIONS
 MORNING ROOM: ALL OPTIONS



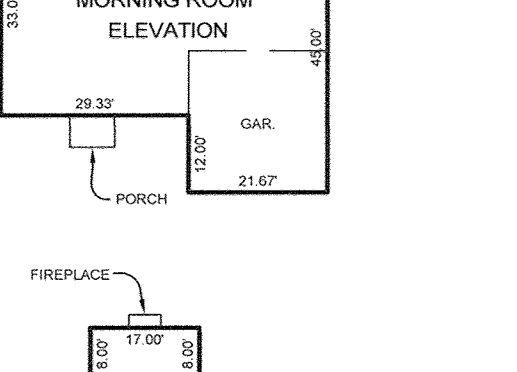
PROFILE

RIDGEWOOD MORNING ROOM ELEVATION

RIDGEWOOD CLASSIC ELEVATION

RIDGEWOOD CRAFTSMAN ELEVATION

RIDGEWOOD SIGNATURE ELEVATION

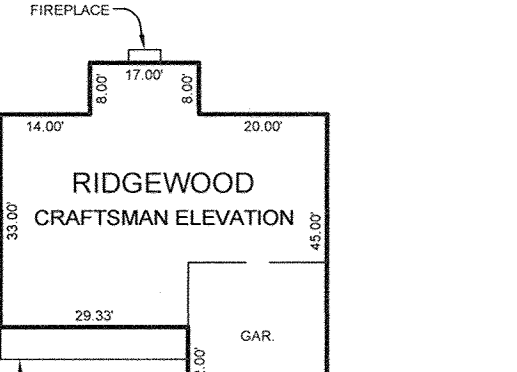


PROFILE

KIRKWOOD ELEV. A

WELLINGTON CRAFTSMAN: ALL OPTIONS
 CLASSIC: ALL OPTIONS
 SIGNATURE: ALL OPTIONS

RIDGEWOOD CRAFTSMAN: ALL OPTIONS
 CLASSIC: ALL OPTIONS
 SIGNATURE: ALL OPTIONS

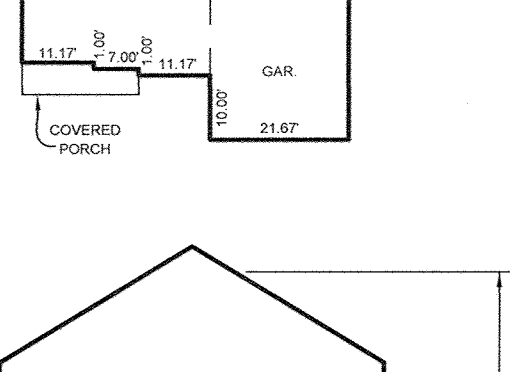


PROFILE

WELLINGTON SIGNATURE ELEVATION

WELLINGTON CLASSIC ELEVATION

WELLINGTON CRAFTSMAN ELEVATION

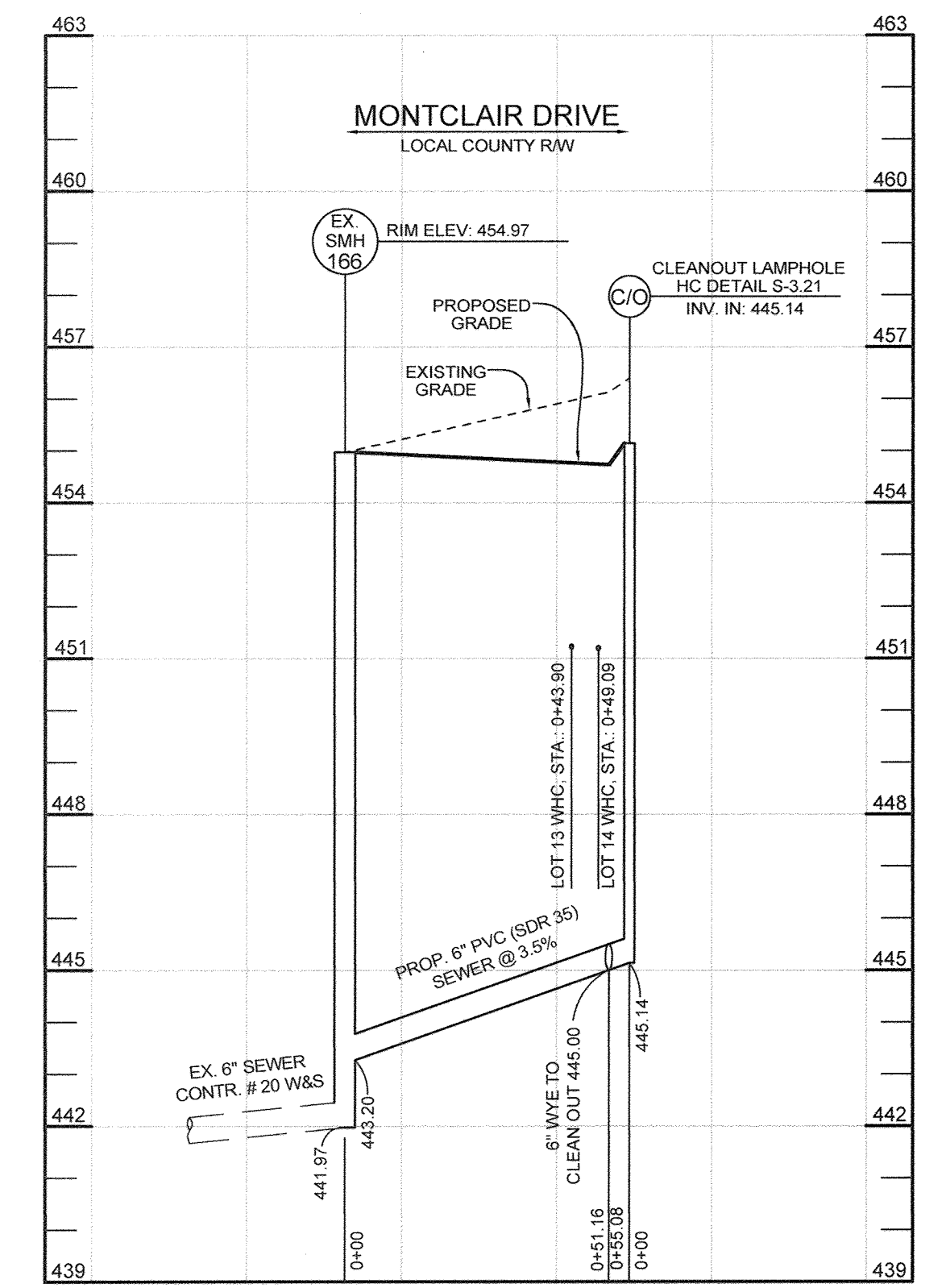
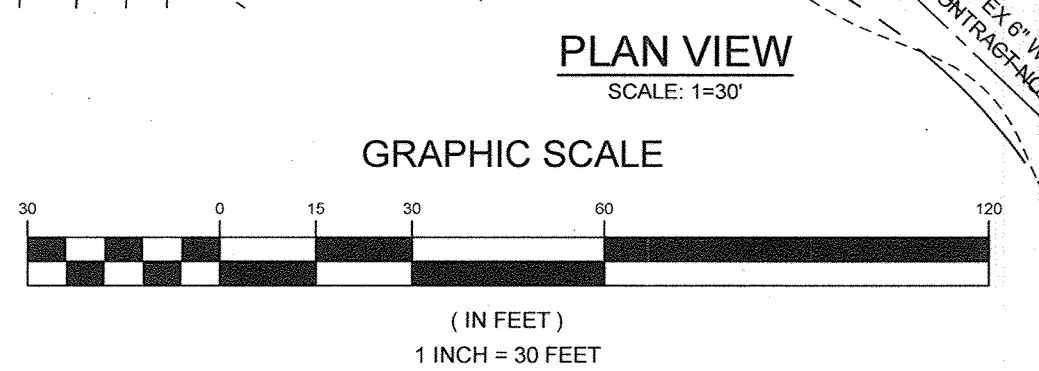
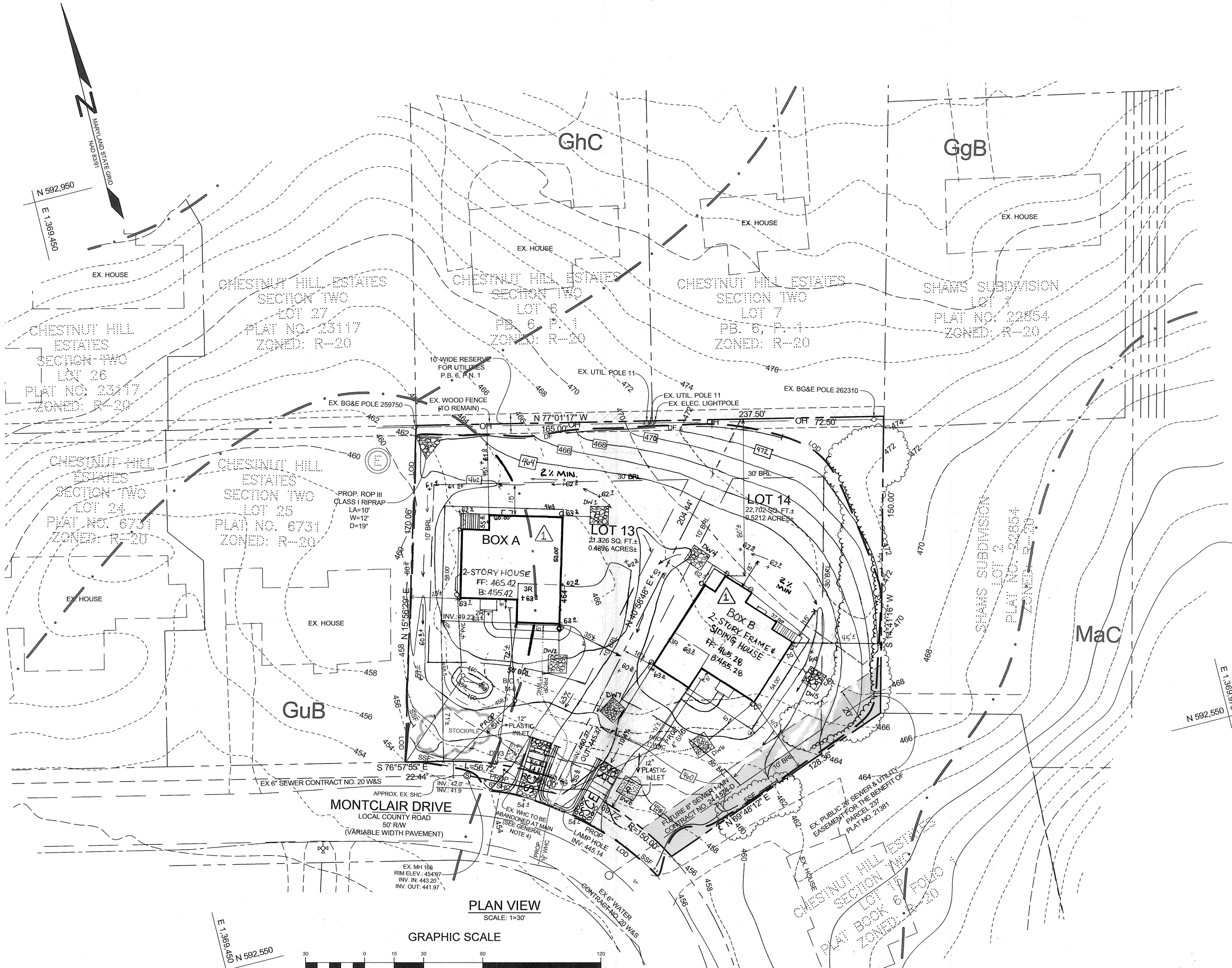


PROFILE

KIRKWOOD ELEV. A

WELLINGTON CRAFTSMAN: ALL OPTIONS
 CLASSIC: ALL OPTIONS
 SIGNATURE: ALL OPTIONS

RIDGEWOOD CRAFTSMAN: ALL OPTIONS
 CLASSIC: ALL OPTIONS
 SIGNATURE: ALL OPTIONS



LEGEND

- EXISTING CONTOUR
- PROPOSED CONTOUR
- PROPOSED SPOT ELEVATION
- DIRECTION OF FLOW
- EXISTING TREELINE
- PROPOSED TREELINE
- SOIL BOUNDARY
- PROPOSED DRYWELL (4" PVC TYP. WITH DOWNSPOUT)
- PROPOSED DRYWELL (WITH INLET)
- PROPOSED 1.5" WHC
- STABILIZED CONSTRUCTION ENTRANCE
- SUPER SILT FENCE
- ADJACENT OFF-SITE FENCE
- LIMIT OF DISTURBANCE
- OVERHEAD WIRES
- EXISTING UTILITY POLE
- PROPOSED DIVERSION FENCE
- PROPOSED WATER METER
- 10' WIDE RESERVE FOR UTILITIES
- EX. PUBLIC 20" SEWER & UTILITY EASEMENT FOR THE BENEFIT OF PARCEL 237

OWNER LOT 13
 KALYAN BOLLA & SAILAJA KILAMBI
 3371 SONIA TRAIL
 ELLICOTT CITY, MARYLAND 21043
 C/O PATRICK COSTELLO - 410-203-9980

OWNER LOT 14
 WOODSTOCK LAND LLC
 3230 BETHANY LANE
 ELLICOTT CITY, MARYLAND 21042
 410-203-9980

DEVELOPER
 WOODSTOCK LAND LLC
 3230 BETHANY LANE
 ELLICOTT CITY, MARYLAND 21042
 410-203-9980

GRADING, LAYOUT, SEDIMENT & EROSION CONTROL AND STORMWATER MANAGEMENT PLAN
CHESTNUT HILL ESTATES SECTION TWO, BLOCK E
LOT 13 & LOT 14

TAX MAP 18 GRID 13
 2ND ELECTION DISTRICT

ZONED: R-20
 PARCEL 178
 HOWARD COUNTY, MARYLAND

SILL ENGINEERING GROUP, LLC

11130 Dovesdale Court, Suite 200
 Marriottsville, Maryland 21104
 Phone: 443.325.5076
 Fax: 410.696.2022
 Email: info@sillengineering.com
 Civil Engineering for Land Development

DESIGN BY: PS
 DRAWN BY: AEA
 CHECKED BY: PS
 SCALE: AS SHOWN
 DATE: MAY 7, 2018
 PROJECT #: 17-008
 SHEET #: 3 of 5

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, 2019.

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

[Signature]
 DATE: 5-25-18

CHIEF, DEVELOPMENT ENGINEERING DIVISION

[Signature]
 DATE: 5-30-18

CHIEF, DIVISION OF LAND DEVELOPMENT

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT

[Signature]
 DATE: 5/22/18

HOWARD SCD

ENGINEER'S CERTIFICATE

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

[Signature]
 DATE: 5/19/18

SIGNATURE OF ENGINEER
 PAUL M. SILL, P.E.

DEVELOPER'S CERTIFICATE

"I HEREBY CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN FOR SEDIMENT AND EROSION CONTROL, AND THAT ALL 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."

[Signature]
 DATE: 9 MAY 2018

SIGNATURE OF DEVELOPER

NO.	REVISION	DESCRIPTION	DATE
1	REVISE HOUSE AND GRADING LOTS 13 & 14		01/11/2019

B-4-2 STANDARDS AND SPECIFICATIONS FOR SOIL PREPARATION, TOPSOILING, AND SOIL AMENDMENTS

DEFINITION: THE PROCESS OF PREPARING THE SOILS TO SUSTAIN ADEQUATE VEGETATIVE STABILIZATION. PURPOSE: TO PROVIDE A SUITABLE SOIL MEDIUM FOR VEGETATIVE GROWTH. CRITERIA: A. SOIL PREPARATION 1. TEMPORARY STABILIZATION a. SEEDBED PREPARATION CONSISTS OF LOOSENING SOIL TO A DEPTH OF 3 TO 6 INCHES BY MEANS OF SUITABLE AGRICULTURAL OR CONSTRUCTION EQUIPMENT...

B-4-3 STANDARDS AND SPECIFICATIONS FOR SEEDING AND MULCHING

DEFINITION: THE APPLICATION OF SEED AND MULCH TO ESTABLISH VEGETATIVE COVER. PURPOSE: TO PROTECT DISTURBED SOILS FROM EROSION DURING AND AT THE END OF CONSTRUCTION. CRITERIA: A. SEEDING 1. SPECIFICATIONS a. ALL SEEDS MUST MEET THE REQUIREMENTS OF THE MARYLAND STATE SEED LAW...

B. MULCHING 1. MULCH MATERIALS (IN ORDER OF PREFERENCE) a. MULCH INCLUDING DYED MUST CONTAIN NO GERMINATION OR GROWTH INHIBITING FACTORS. b. WOOD CELLULOSE FIBER MULCH (WCFM) CONSISTING OF SPECIALLY PREPARED WOOD CELLULOSE PROCESSED INTO A UNIFORM FIBROUS PHYSICAL STATE...

2. APPLICATION a. APPLY MULCH TO ALL SEEDBED AREAS IMMEDIATELY AFTER SEEDING. b. WHEN STRAW MULCH IS USED, SPREAD IT OVER ALL SEEDBED AREAS AT THE RATE OF 2 TONS PER ACRE TO A UNIFORM LOGS DEPTH OF 1 TO 2 INCHES...

B-4-5 STANDARDS AND SPECIFICATIONS FOR PERMANENT STABILIZATION

TO STABILIZE DISTURBED SOILS WITH PERMANENT VEGETATION. PURPOSE: TO USE LONG-LIVED PERENNIAL GRASSES AND LEGUMES TO ESTABLISH PERMANENT GROUND COVER ON DISTURBED SOILS. CRITERIA: A. SEED MIXTURES 1. GENERAL USE a. SELECT ONE OR MORE OF THE SPECIES OR MIXTURES LISTED IN TABLE B.1 FOR THE APPROPRIATE PLANT HARDINESS ZONE...

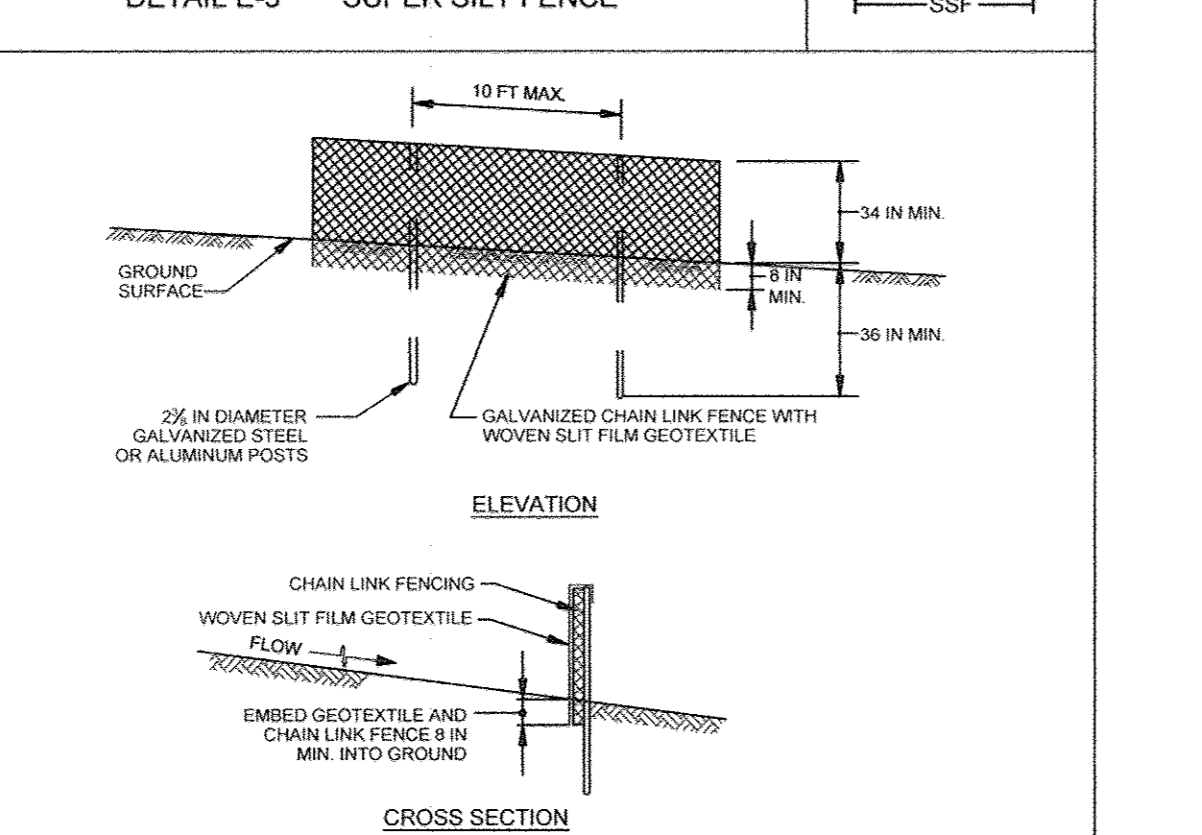
2. TURFGRASS MIXTURES a. AREAS WHERE TURFGRASS MAY BE DESIRED INCLUDE LAWNS, PARKS, PLAYGROUNDS, AND COMMERCIAL SITES WHICH WILL RECEIVE A MEDIUM TO HIGH LEVEL OF MAINTENANCE. b. SELECT ONE OR MORE OF THE SPECIES OR MIXTURES LISTED BELOW BASED ON THE SITE CONDITIONS OR PURPOSE...

3. IDEAL TIMES OF SEEDING FOR TURFGRASS MIXTURES: WESTERN MD. MARCH 15 TO JUNE 1, AUGUST 1 TO OCTOBER 1 (HARDINESS ZONES: 5B, 6A) CENTRAL MD. MARCH 15 TO JUNE 1, AUGUST 1 TO OCTOBER 1 (HARDINESS ZONE: 6B) SOUTHERN MD. EASTERN SHORE: MARCH 15 TO MAY 15, AUGUST 15 TO OCTOBER 15 (HARDINESS ZONES: 7A, 7B)...

B-4-4 STANDARDS AND SPECIFICATIONS FOR TEMPORARY STABILIZATION

TO STABILIZE DISTURBED SOILS WITH VEGETATION FOR UP TO 6 MONTHS. PURPOSE: TO USE FAST GROWING VEGETATION THAT PROVIDES COVER ON DISTURBED SOILS. CRITERIA: 1. SELECT ONE OR MORE OF THE SPECIES OR SEED MIXTURES LISTED IN TABLE B.1 FOR THE APPROPRIATE PLANT HARDINESS ZONE (FROM FIGURE B.3) AND ENTER THEM IN THE TEMPORARY SEEDING SUMMARY BELOWING WITH APPLICATION NOTES...

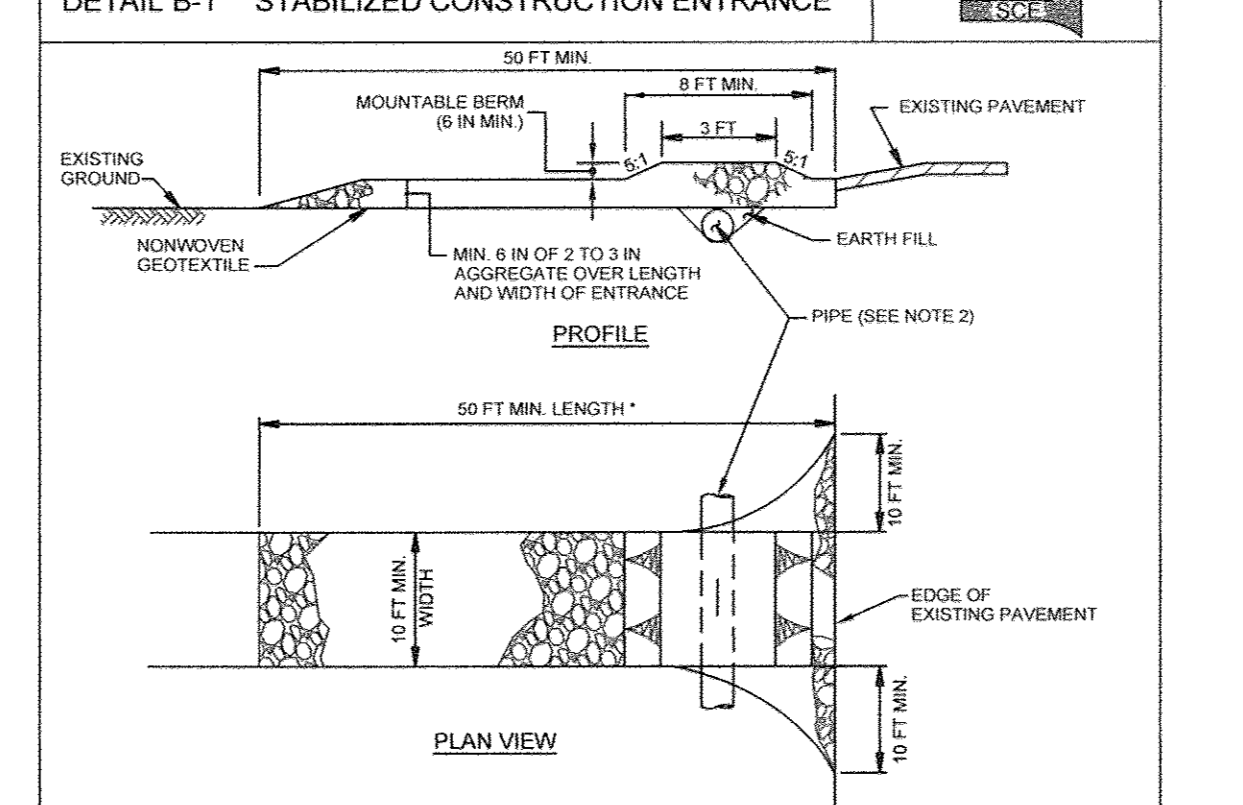
DETAIL E-3 SUPER SILT FENCE



CONSTRUCTION SPECIFICATIONS 1. INSTALL 3/4 INCH DIAMETER GALVANIZED STEEL POSTS OF 0.095 INCH WALL THICKNESS AND SIX FOOT LENGTH SPACED NO FURTHER THAN 10 FEET APART. DRIVE THE POSTS A MINIMUM OF 36 INCHES INTO THE GROUND. 2. FASTEN 5 GAUGE OR HEAVIER GALVANIZED CHAIN LINK FENCE WITH WIRE TIES OR HUG RINGS.

Table with 2 columns: U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE (2011) and MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION (2011).

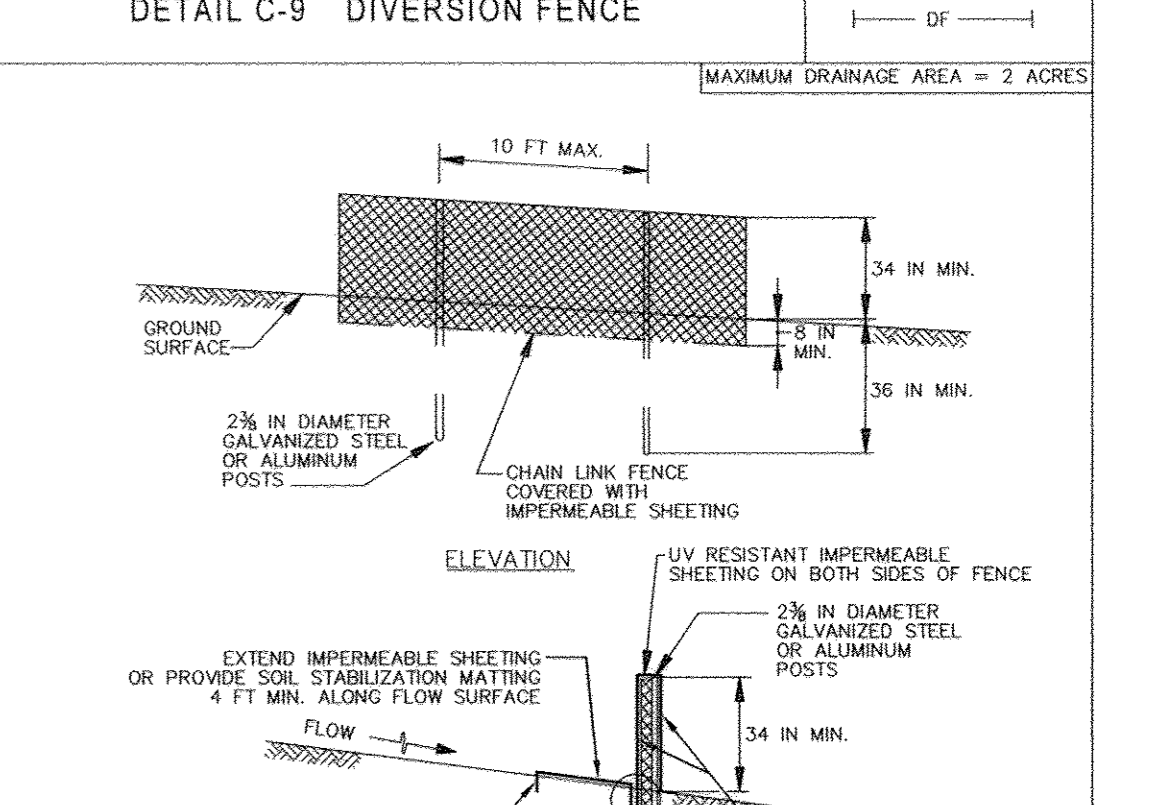
DETAIL B-1 STABILIZED CONSTRUCTION ENTRANCE



CONSTRUCTION SPECIFICATIONS 1. PLACE STABILIZED CONSTRUCTION ENTRANCE IN ACCORDANCE WITH THE APPROVED PLAN, VEHICLES MUST TRAVEL OVER THE ENTIRE LENGTH OF THE SCE. USE MINIMUM LENGTH OF 50 FEET (30 FEET FOR SINGLE RESIDENCE LOTS). USE MINIMUM WIDTH OF 10 FEET. PLACE SCE AT THE EXISTING ROAD TO PROVIDE A TURNING RADIUS. 2. PIPE ALL SURFACE WATER FLOWING TO OR DIVERTED THROUGH THE SCE UNDER THE ENTRANCE, MAINTAINING POSITIVE DRAINAGE. PROTECT PIPE INSTALLED THROUGH THE SCE WITH A MOUNTABLE BEAM WITH 6 SLOPES AND A MINIMUM OF 2 INCHES OF STONE OVER THE PIPE...

Table with 2 columns: U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE (2011) and MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION (2011).

DETAIL C-9 DIVERSION FENCE



CONSTRUCTION SPECIFICATIONS 1. USE 42 INCH HIGH, 9 GAUGE OR THICKER CHAIN LINK FENCING (2 1/2 INCH MAXIMUM OPENING). 2. USE 2 INCH DIAMETER GALVANIZED STEEL POSTS OF 0.095 INCH WALL THICKNESS AND SIX FOOT LENGTH SPACED NO FURTHER THAN 10 FEET APART. THE POSTS DO NOT HAVE TO BE SET IN CONCRETE. 3. FASTEN CHAIN LINK FENCE SECURELY TO THE FENCE POSTS WITH WIRE TIES.

Table with 2 columns: U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE (2011) and MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION (2011).

TABLE B.1: TEMPORARY SEEDING FOR SITE STABILIZATION

Table with columns: PLANT SPECIES, SEEDING RATE (LB/AC, LB/1000FT^2), SEEDING DEPTH (INCHES), and RECOMMENDED SEEDING DATES BY PLANT HARDINESS ZONE (5b & 6a, 6b, 7a & 7b).

TABLE B.5: RECOMMENDED PLANTING DATES FOR PERMANENT COVER IN MARYLAND

Table with columns: TYPE OF PLANT MATERIAL, PLANT HARDINESS ZONES (5b & 6a, 6b, 7a & 7b), and RECOMMENDED PLANTING DATES.

ENGINEERS CERTIFICATE

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

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING. Director: [Signature], DATE: 5-21-18. Chief, Development Engineering Division: [Signature], DATE: 5-25-18. Chief, Division of Land Development: [Signature], DATE: 5-30-18.

DEVELOPER'S CERTIFICATE

I HEREBY CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN FOR SEDIMENT AND EROSION CONTROL, AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT (DOR) TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT.

OWNER LOT 13: KALYAN BOLLA & SAILAJA KILAMBI, 3371 SONIA TRAIL, ELLICOTT CITY, MARYLAND 21043. OWNER LOT 14: WOODSTOCK LAND LLC, 3230 BETHANY LANE, ELLICOTT CITY, MARYLAND 21042. DEVELOPER: WOODSTOCK LAND LLC, 3230 BETHANY LANE, ELLICOTT CITY, MARYLAND 21042.

SEDIMENT AND EROSION CONTROL NOTES & DETAILS

CHESTNUT HILL ESTATES SECTION TWO, BLOCK E LOT 13 & LOT 14. TAX MAP 18 GR13 2ND ELECTION DISTRICT. ZONED: R-20. PARCEL 178 HOWARD COUNTY, MARYLAND. SILL ENGINEERING GROUP, LLC. DESIGN BY: PS. DRAWN BY: AEA. CHECKED BY: PS. SCALE: AS SHOWN. DATE: MAY 7, 2018. PROJECT #: 17-008. SHEET # 4 of 5.

OPERATION AND MAINTENANCE SCHEDULE FOR PRIVATELY OWNED AND MAINTAINED DRY WELLS (M-5)

- PRIVATELY OWNED PRACTICES SHALL HAVE A MAINTENANCE PLAN AND SHALL BE PROTECTED BY EASEMENT, DEED RESTRICTION, ORDINANCE, OR OTHER LEGAL MEASURES PREVENTING ITS NEGLIGENCE, ADVERSE ALTERATION, AND REMOVAL.
- DRY WELLS SHALL BE INSPECTED AND CLEANED ANNUALLY. THIS INCLUDES PIPES, GUTTERS, DOWNSPOUTS, AND ALL FILTERS.
- PONDING, STANDING WATER, OR ALGAL GROWTH ON TOP OF THE DRY WELL MAY INDICATE FAILURE DUE TO SEDIMENTATION IN THE GRAVEL MEDIA. IF WATER PONDS FOR MORE THAN 48 HOURS AFTER A MAJOR STORM OR MORE THAN SIX INCHES OF SEDIMENT HAS ACCUMULATED, THE GRAVEL MEDIA SHOULD BE EXCAVATED AND REPLACED.

OPERATION AND MAINTENANCE SCHEDULE FOR PRIVATELY OWNED AND MAINTAINED BIORETENTION FACILITIES (M-6)

- THE OWNER SHALL MAINTAIN THE PLANT MATERIAL, MULCH LAYER AND SOIL LAYER ANNUALLY. MAINTENANCE OF MULCH AND SOIL IS LIMITED TO CORRECTING AREAS OF EROSION OR WASH OUT. ANY MULCH REPLACEMENT SHALL BE DONE IN THE SPRING. PLANT MATERIAL SHALL BE CHECKED FOR DISEASE AND INSECT INFESTATION AND MAINTENANCE WILL ADDRESS DEAD MATERIAL AND PRUNING. ACCEPTABLE REPLACEMENT PLANT MATERIAL IS LIMITED TO THE FOLLOWING: 2000 MARYLAND STORMWATER DESIGN MANUAL, VOLUME II, TABLE A.4.1 AND 2.
- THE OWNER SHALL PERFORM A PLANT INSPECTION IN THE SPRING AND IN THE FALL OF EACH YEAR. DURING THE INSPECTION, THE OWNER SHALL REMOVE DEAD OR DISEASED VEGETATION CONSIDERED BEYOND TREATMENT. REPLACE DEAD PLANT MATERIAL WITH ACCEPTABLE REPLACEMENT PLANT MATERIAL. TREAT DISEASED TREES AND SHRUBS, AND REPLACE ALL DEFICIENT STAKES AND WIRES.
- THE OWNER SHALL INSPECT EACH SPRING. THE MULCH SHALL BE REAPPLIED EVERY TWO TO THREE YEARS. THE PREVIOUS MULCH LAYER SHALL BE REMOVED BEFORE THE NEW LAYER IS APPLIED.
- THE OWNER SHALL CORRECT SOIL EROSION ON AN AS NEEDED BASIS, WITH A MINIMUM OF ONCE PER MONTH AND AFTER EACH HEAVY STORM.

OPERATION AND MAINTENANCE SCHEDULE FOR PRIVATELY OWNED AND MAINTAINED DISCONNECTION OF ROOFTOP RUNOFF (N-1) AND NON-ROOFTOP RUNOFF (N-2)

- MAINTENANCE OF AREAS RECEIVING DISCONNECTED RUNOFF IS GENERALLY NO DIFFERENT THAN THAT REQUIRED FOR OTHER LAWN OR LANDSCAPED AREAS. THE OWNER SHALL ENSURE THE AREAS RECEIVING RUNOFF ARE PROTECTED FROM FUTURE COMPACTION OR DEVELOPMENT OF IMPERVIOUS AREAS. IN COMMERCIAL AREAS, FOOT TRAFFIC SHOULD BE DISCOURAGED AS WELL.

DRYWELL & ROOF LEADER/DOWNSPOUT NOTES

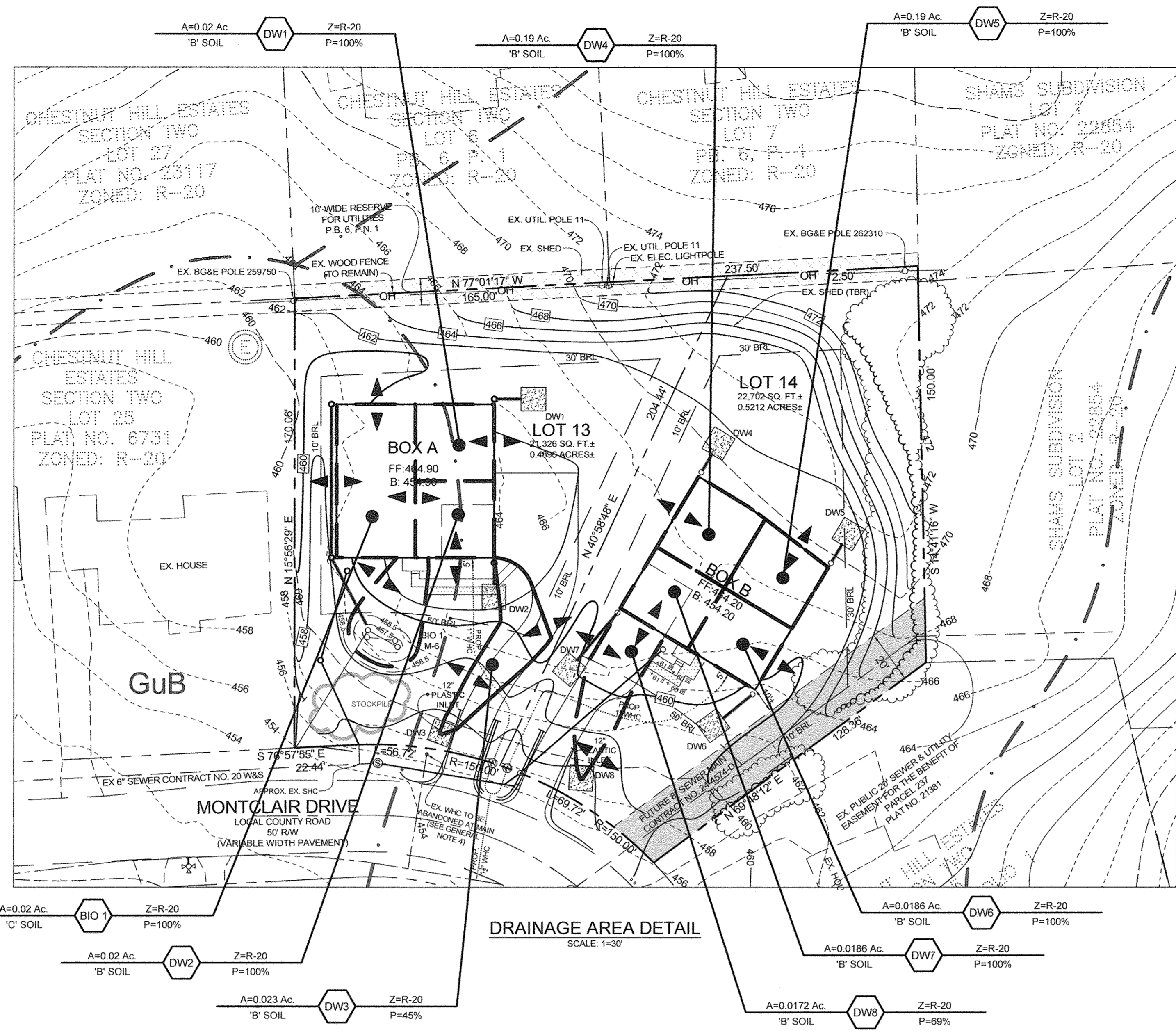
- ALL CONSTRUCTION TO FOLLOW HOWARD COUNTY AND MDE SPECIFICATIONS IN MDE 2000 SWM DESIGN MANUAL.
- DRYWELLS SHALL BE 10' MIN. FROM HOUSE/GARAGE FOUNDATION.
- SAND SHALL MEET ASTM C-33 AND CLEAN AND FREE OF DEBRIS.
- AGGREGATE SHALL BE 1 1/2" TO 3" ASTM D446, CLEAN AND WASHED, AND FREE OF DEBRIS.
- PVC UNDERDRAIN PIPE OUTSIDE BMP: SCHEDULE 40 SOLID PIPE WITH MINIMUM SLOPE OF 0.5% OR AS PER PLAN. PVC UNDERDRAIN IN DRYWELL: SCHEDULE 40 PERFORATED. PERFORATIONS SHOULD BE 1/4" DIAMETER LOCATED 6" ON CENTER WITH A MINIMUM OF FOUR HOLES PER ROW. PIPE SHALL BE WRAPPED WITH A 1/2" (NO. 4) OR 4X4 GALVANIZED HARDWARE CLOTH (WELDED WIRE MESH).
- CONTRACTOR SHALL DRILL TWO (2) 3/8" HOLES IN THE CLEANOUT CAP TO ALLOW "BREATHING"/AIR ESCAPE.
- NOTIFY THE ENGINEER IF GROUNDWATER OR ROCK IS DISCOVERED.
- A LEAF SCREEN SHALL BE INSTALLED AS PER THE HOWARD COUNTY DETAIL (D-9/11) OR AS PER MDE (GUTTER SCREEN). GUTTER GUARDS ARE ALSO ACCEPTABLE. SCREENS SHALL BE CAPABLE OF PREVENTING PINE NEEDLES AND LEAVES FROM ENTERING THE DRYWELL. ALTERNATE SCREENS CAN BE USED IF ACCEPTABLE TO THE HOWARD COUNTY INSPECTOR.
- THE ROOF LEADER INVERT IN CAN BE ADJUSTED TO RECEIVE DRAINAGE FROM NEAR-BY DOWNSPOUTS. THE ROOF LEADERS SHALL BE DESIGNED (BY OTHERS) PER HOOD. BUILDING CODE.
- INSTALL A SINGLE SEPARATE OBSERVATION WELL (WITH IDENTICAL CONSTRUCTION TO CLEAN-OUT AS SHOWN) IF AN AOS POP-UP EMITTER IS USED.

GENERAL STORMWATER MANAGEMENT NOTES

- STORMWATER MANAGEMENT HAS BEEN PROVIDED WITH ONE (1) BIORETENTION FACILITY, SEVEN (7) DRYWELLS AND NON-ROOFTOP DISCONNECT (N-1) WITH CREDIT. PLEASE REFER TO THE SECP REPORT PREPARED BY CIVIL DESIGN SERVICES, L.C. DATED JUNE 20, 2015.
- ALL CONSTRUCTION SHALL MEET THE LATEST EDITION OF THE HOWARD COUNTY STANDARDS AND SPECIFICATIONS, SMALL EARTHEN DAM SPECIFICATION MD-278, AND THE MARYLAND DEPARTMENT OF THE ENVIRONMENT'S CURRENT STORMWATER DESIGN MANUAL, OR AS SHOWN ON THESE PLANS. THE CONTRACTOR SHALL CONSULT THE ENGINEER SHOULD THERE BE ANY DISCREPANCIES.
- UTILITIES ARE NOT EXPECTED IN THE PROPOSED AREA OF CONSTRUCTION. CONTRACTOR SHALL TEST PIT ALL KNOWN EXISTING UTILITIES TO VERIFY SIZE, SHAPE, LOCATION, AND TYPE PRIOR TO PERFORMING CONSTRUCTION. ANY UTILITY DAMAGED DUE TO CONSTRUCTION MUST BE REPAIRED IMMEDIATELY.
- SHOULD THE CONTRACTOR DISCOVER DISCREPANCIES BETWEEN THE PLANS AND FIELD CONDITIONS, THE ENGINEER IS TO BE NOTIFIED IMMEDIATELY TO RESOLVE THE SITUATION. IF THE CONTRACTOR MAKES FIELD CORRECTIONS OR ADJUSTMENTS WITHOUT NOTIFYING THE ENGINEER, THEN THE CONTRACTOR ASSUMES ALL RESPONSIBILITY FOR THOSE CHANGES.
- CONTRACTOR SHALL NOTIFY MISS UTILITY 1-800-257-7777 AND THE HOWARD COUNTY DEPARTMENT OF INSPECTION LICENSES & PERMITS THREE (3) WORKING DAYS BEFORE BEGINNING CONSTRUCTION.
- THE MICRO-BIORETENTION BMP MAY BE GRADED, HOVED, OR THE PLANTING SOIL IN THE BMP SHALL NOT BE INSTALLED UNTIL ALL UPSTREAM AREAS HAVE BEEN STABILIZED (i.e., THICK GRASS COVER, OR PAVED).
- THE STORMWATER MANAGEMENT BIORETENTION BMP FOR THIS PROJECT WILL BE PRIVATELY OWNED AND MAINTAINED.

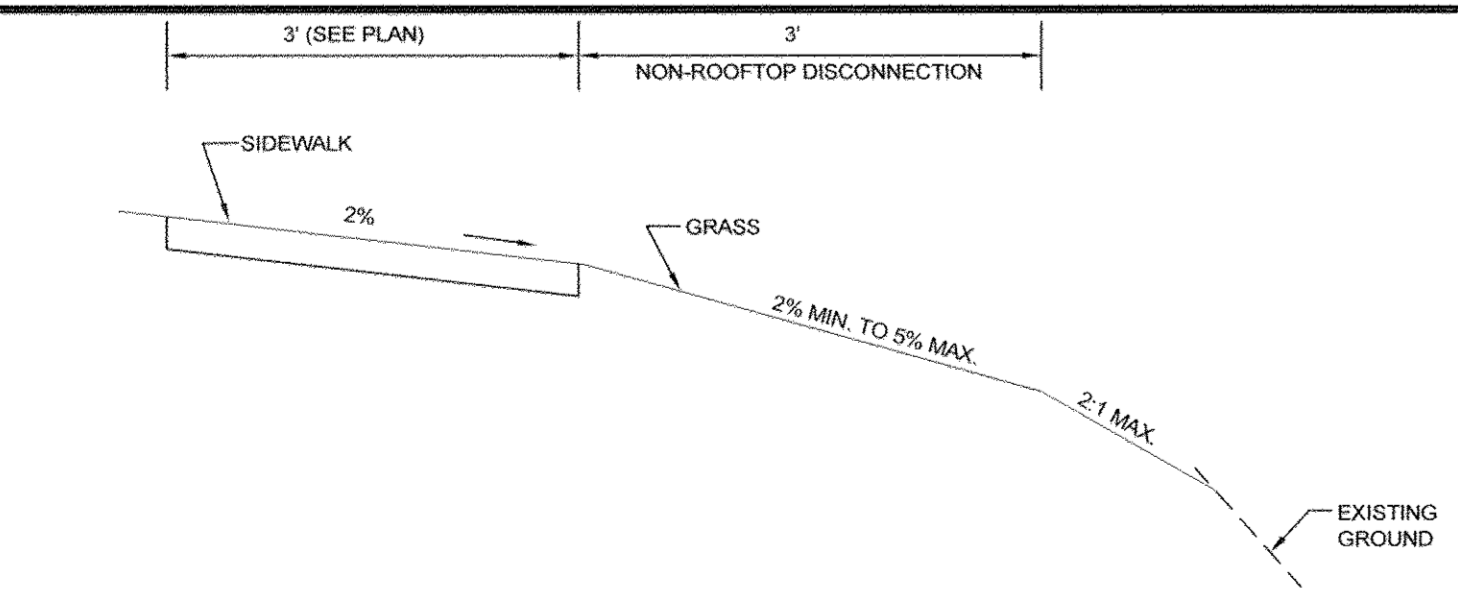
BMP BIORETENTION FACILITY NOTES AND SPECIFICATIONS

- REFER TO THE LATEST MARYLAND SWM DESIGN MANUAL FOR BIORETENTION SPECIFICATIONS FOR INFORMATION NOT LISTED HEREIN AND FOR ADDITIONAL INFORMATION.
- THE BIORETENTION BMP MATERIALS ARE AS FOLLOWS:
PLANTING SOIL: PER PLANTING SOIL SPECIFICATIONS OUTLINED IN MDE'S 2000 SWM ANNUAL APPENDIX B.4. DO NOT MECHANICALLY COMPACT PLANTING SOIL, BUT CAN BE "WATERED" TO FACILITATE SETTLING.
PVC UNDERDRAIN PIPE OUTSIDE BMP: SCHEDULE 40 SOLID PIPE WITH MINIMUM SLOPE OF 0.5% OR AS PER PLAN.
PVC UNDERDRAIN IN BMP: SCHEDULE 40 AND PERFORATED WITH 3/4" HOLES. WRAP UNDERDRAIN WITH GALVANIZED 1/4" HARDWARE CLOTH (WELDED WIRE MESH), PROVIDE 4 - 3/4" HOLES EVENLY SPACED AROUND THE PIPE CIRCUMFERENCE. SPACE PERFORATIONS ALONG PIPE AT 6" ON CENTER.
ADJACENT SETS OF PERFORATIONS SHALL BE STAGGERED AT 45°. PERFORATIONS MUST TOTAL 3.5 sq. inch MIN. PER LF OF PIPE.
STONE AGGREGATE: MSHA SPECIFICATIONS AS SHOWN ON TYPICAL SECTION; AGGREGATE MUST WASHED, AND BE FREE OF FINES, SAND, DIRT & DEBRIS.
GEOTEXTILE: PER MDE SWM MANUAL, OR MIRAFI 140N.
MULCH: SHREDDED, WELL-AGED (6-12 MONTHS) HARDWOOD MULCH; NO WOOD CHIPS OR PINE MULCH.
THE CONTRACTOR SHALL UNDER NO CIRCUMSTANCES ALLOW SURFACE DRAINAGE INTO THE MICRO-BIORETENTION BMPs UNTIL ALL UPSTREAM AREAS HAVE BEEN STABILIZED (i.e., PAVED, OR HAVE WELL-ESTABLISHED VEGETATION).
BOARDS SHALL NOT BE LEFT IN PLACE DURING THE CONSTRUCTION OF THE BIORETENTION BMP.
GEOTEXTILE (FILTER FABRIC) SHALL BE PLACED AGAINST EXCAVATED VERTICAL SURFACES. SCARIFY EARTH PRIOR TO GEOTEXTILE PLACEMENT. INSTALL GEOTEXTILE PER MANUFACTURER'S SPECIFICATIONS/RECOMMENDATIONS AND USE A 2 FT MINIMUM OVERLAP AND NOTCH ENDS WITH A 6" MINIMUM BURY OR EQUIVALENT ANCHORING METHOD.
THE CONTRACTOR SHALL PROVIDE TO THE OWNER INDEPENDENT CERTIFICATION THAT THE PLANTING SOILS AND OTHER BIORETENTION MATERIALS MEET THE SPECIFICATIONS.
THE BIORETENTION FACILITIES SHALL BE VEGETATED (TOP LEVEL SURFACE ONLY) IN ACCORDANCE WITH THE PLANTING PLAN AND THE BMP M-6 SPECIFICATIONS IN MDE'S CURRENT STORMWATER MANAGEMENT DESIGN MANUAL.
INSTALL CLEANOUT SOLID PVC PIPE AS SHOWN. THE CLEANOUT TOP SHALL EXTEND 3" ABOVE TOP OF MULCH.
THE LIMIT OF THE TYPICAL SECTION (i.e., PLANTING SOIL, AGGREGATE, ETC.) IS THE ENTIRE LEVEL SURFACE OF THE BIORETENTION FACILITY EXCLUDING RIPRAP AREAS AT ROOF LEADER DISCHARGE LOCATIONS.



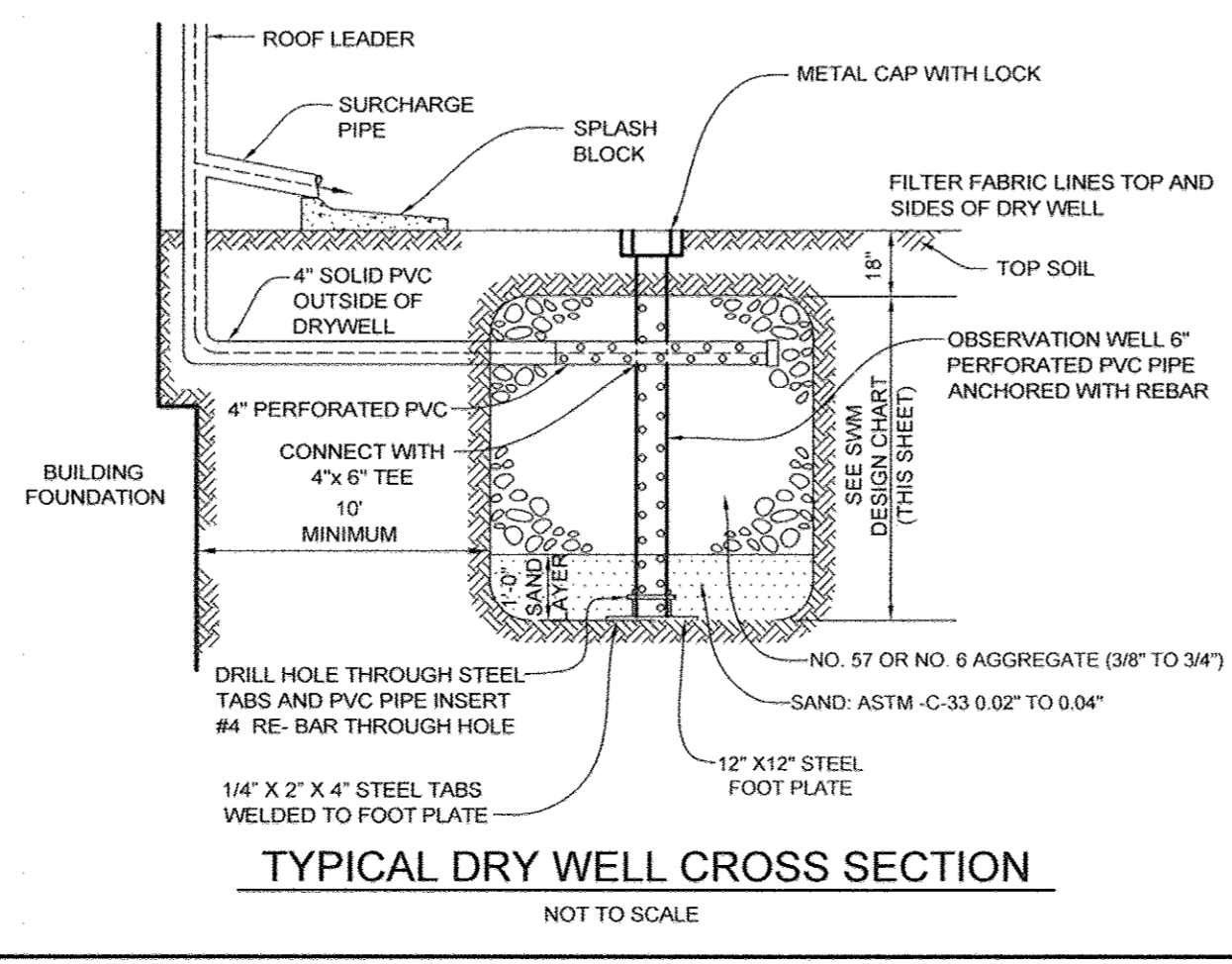
AREA	PRACTICE	DRAINAGE AREA (SF)	DRYWELL SIZE L x W x H
DW1	M-5	870	9.5x9.0x5.0
DW2	M-5	870	9.5x9.0x5.0
DW3	M-5	1,000	8.5x8.0x5.0
DW4	M-5	810	9.5x9.0x5.0
DW5	M-5	810	9.5x9.0x5.0
DW6	M-5	810	9.5x9.0x5.0
DW7	M-5	810	9.5x9.0x5.0
DW8	M-5	750	9.5x9.0x5.0

DESCRIPTION	BIO 1
'A' PONDING DEPTH	1.00'
'B' WSEL	458.50'
'C' TOP OF MULCH	457.50'
'D' FACILITY LENGTH	16.5'
'E' FACILITY WIDTH	7'
'F' PERF. UNDERDRAIN DIMENSION	11.00'
'G' UNDERDRAIN INVERT	454.42'
'H' SOLID UNDERDRAIN DIMENSION	52'
'I' OUTFALL INVERT	454.00'
'J' OVERFLOW PIPE	453.92'

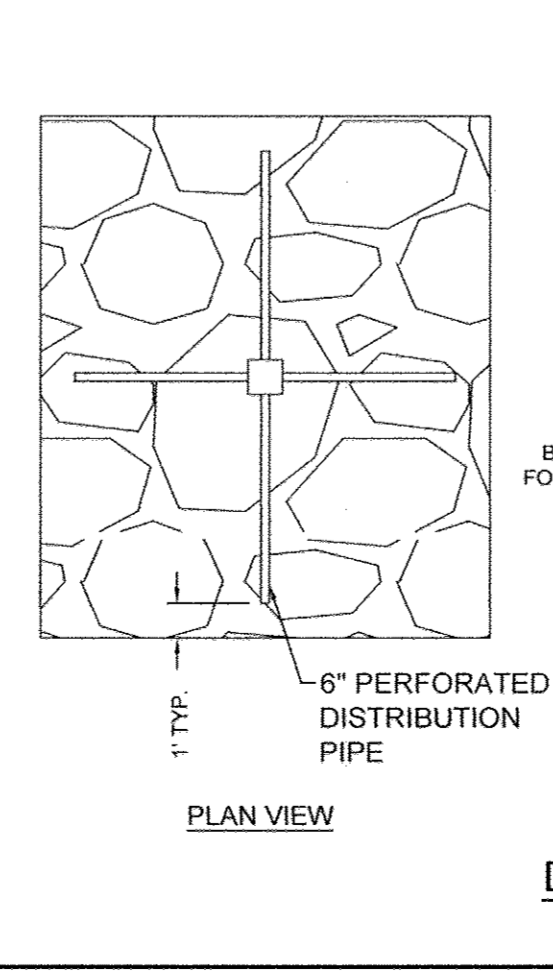


FRONT SIDEWALK TYPICAL SECTION
NOT TO SCALE

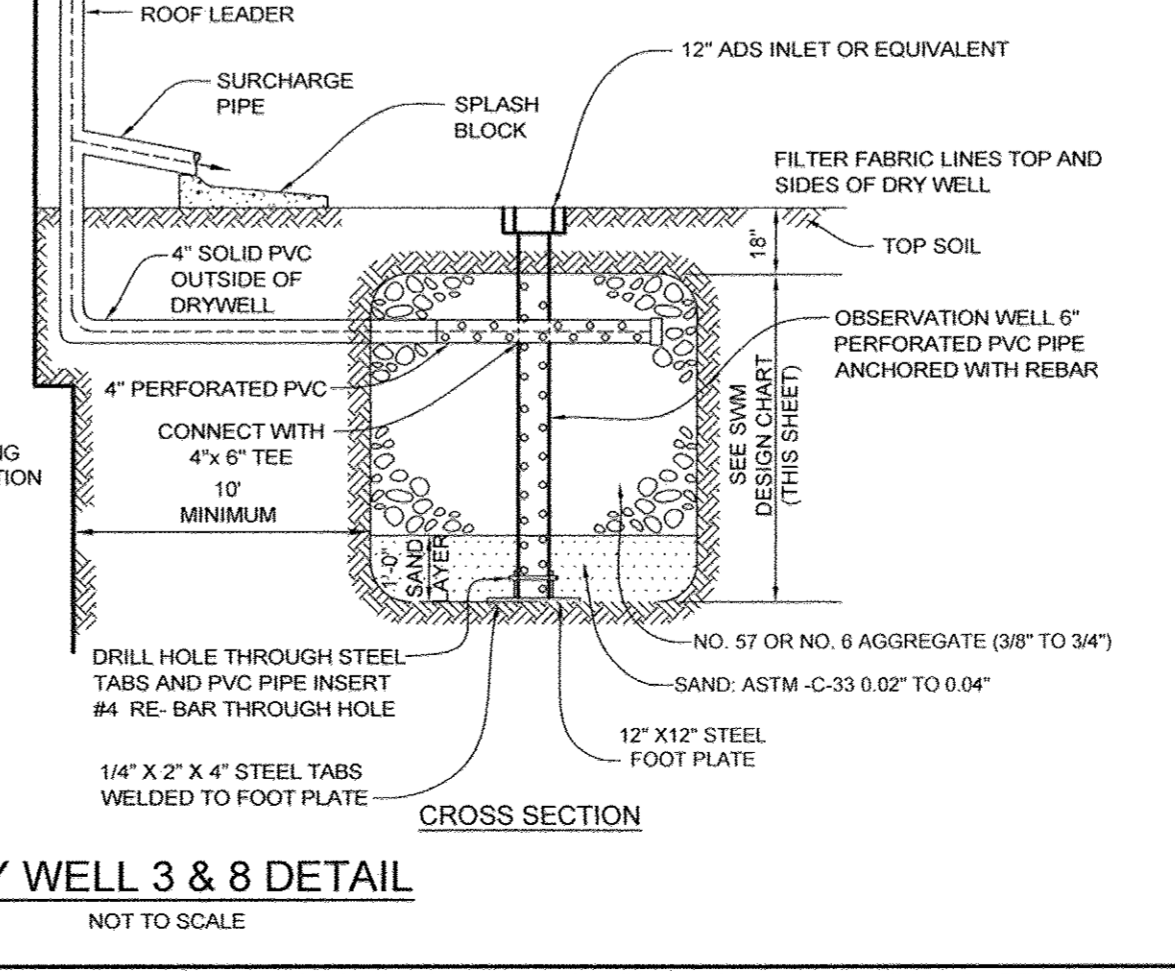
APPROVED, HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
William J. Miller DIRECTOR
 DATE: 5-31-18
Chad E. ...
 DATE: 5-25-18
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
Ventura ...
 DATE: 5-30-18
 CHIEF, DIVISION OF LAND DEVELOPMENT



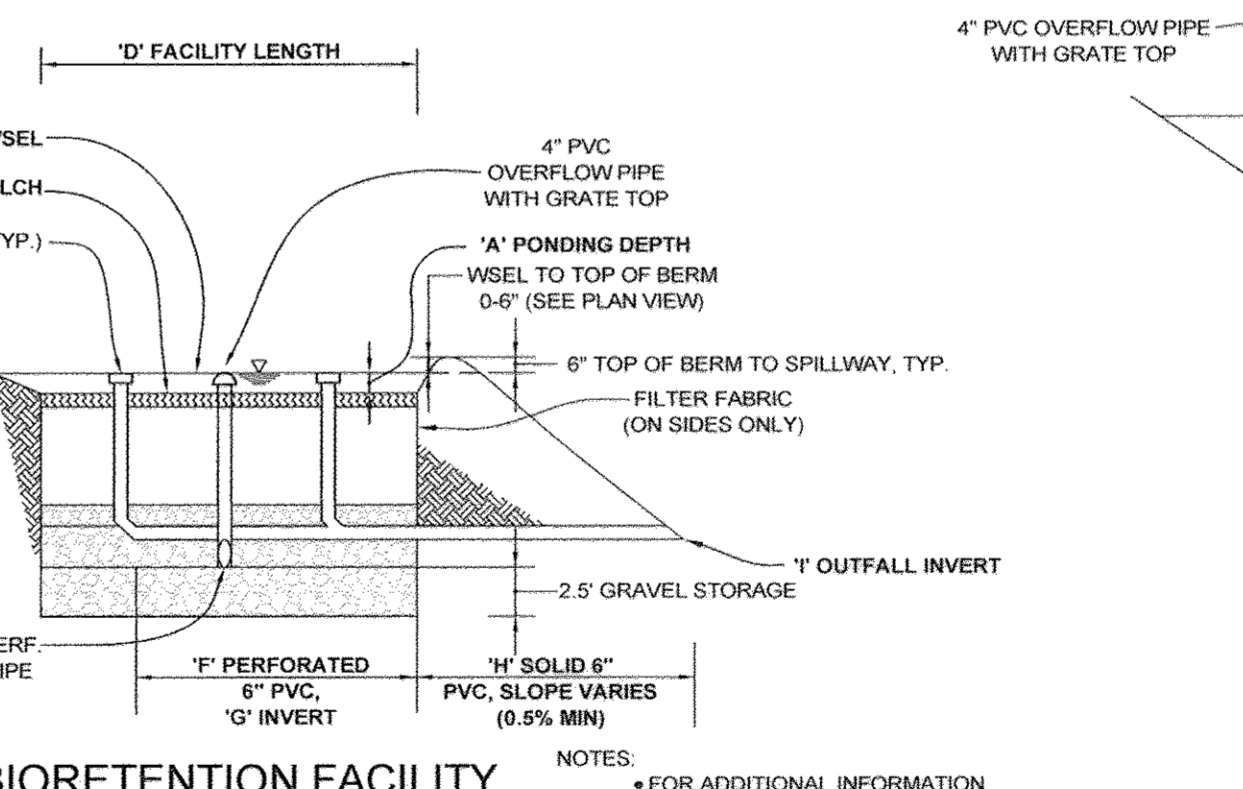
TYPICAL DRY WELL CROSS SECTION
NOT TO SCALE



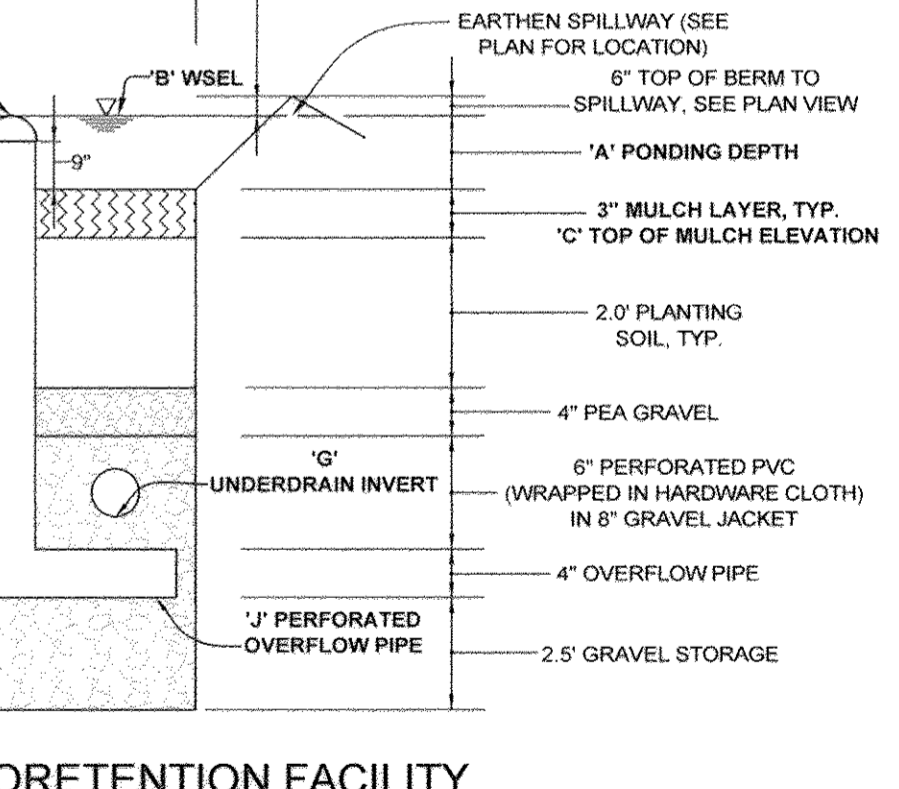
PLAN VIEW



DRYWELL 3 & 8 DETAIL
NOT TO SCALE

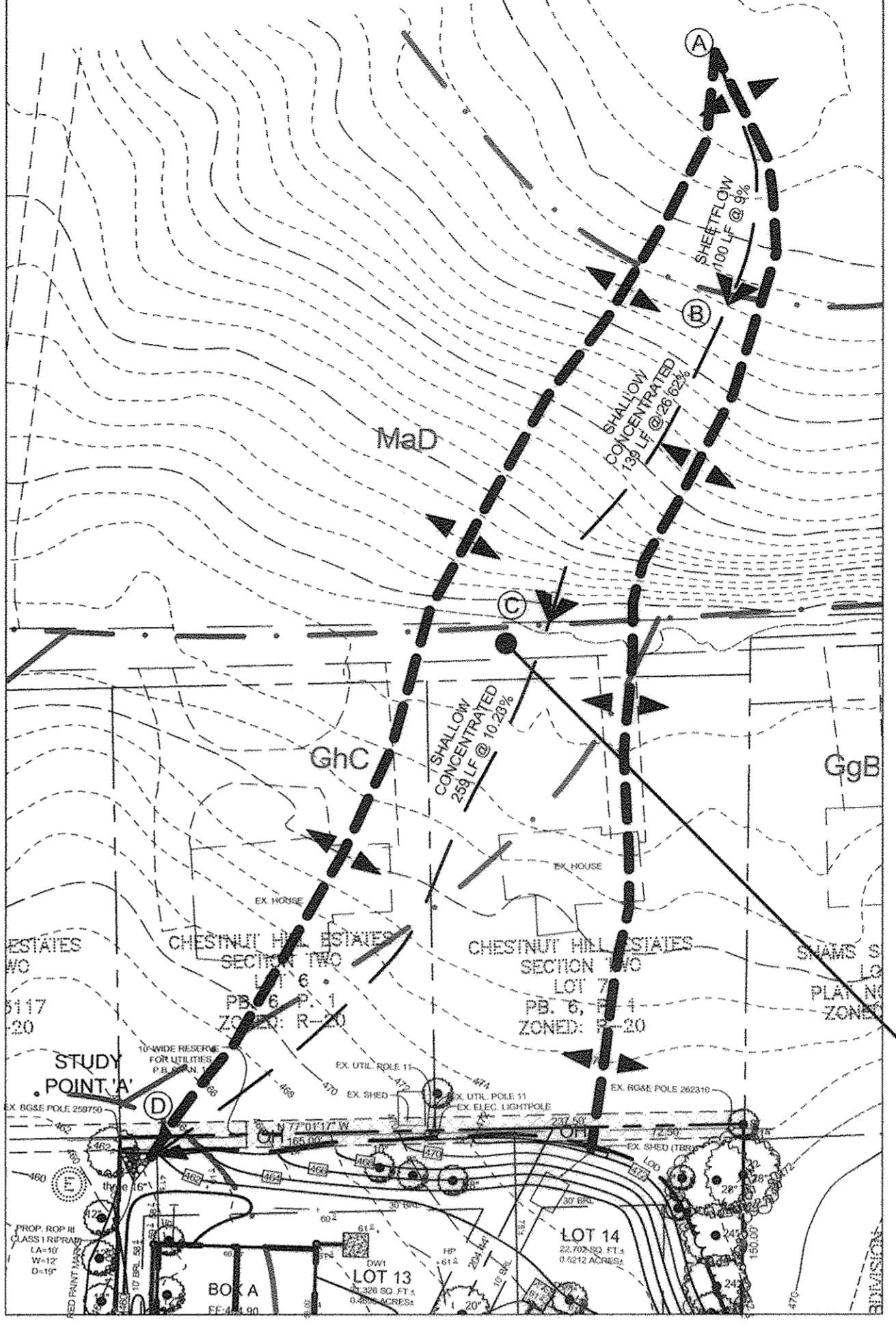


BIORETENTION FACILITY TYPICAL PROFILE
NOT TO SCALE



BIORETENTION FACILITY TYPICAL SECTION
NOT TO SCALE

LOT #	ADDRESS	DRYWELLS (NUMBER)	MICRO-BIORETENTION M-6 (NUMBER)
13	2821 MONTCLAIR DRIVE	3	1
14	2825 MONTCLAIR DRIVE	5	0



DIVERSION FENCE DRAINAGE AREA DETAIL
SCALE: 1"=50'

- LEGEND**
- EXISTING CONTOUR
 - PROPOSED CONTOUR
 - PROPOSED SPOT ELEVATION
 - DIRECTION OF FLOW
 - EXISTING TREELINE
 - PROPOSED TREELINE
 - SOIL BOUNDARY
 - PROPOSED DRYWELL (4" PVC TYP. WITH DOWNSPOUT)
 - PROPOSED DRYWELL (WITH INLET)
 - PROPOSED 1.5" W/IC
 - ADJACENT OFF-SITE FENCE
 - OVERHEAD WIRES
 - EXISTING UTILITY POLE
 - PROPOSED WATER METER
 - 10' WIDE RESERVE FOR UTILITIES
 - EX. PUBLIC 20" SEWER & UTILITY EASEMENT FOR THE BENEFIT OF PARCEL 237
 - PROPOSED DRAINAGE DIVIDE
 - NON-ROOFTOP DISCONNECT

OWNER LOT 13
 KALYAN BOLLA & SAILAJA KILAMBI
 3571 SONIA TRAIL
 ELLICOTT CITY, MARYLAND 21043
 C/O PATRICK COSTELLO - 410-203-9980

OWNER LOT 14
 WOODSTOCK LAND LLC
 3230 BETHANY LANE
 ELLICOTT CITY, MARYLAND 21042
 410-203-9980

DEVELOPER
 WOODSTOCK LAND LLC
 3230 BETHANY LANE
 ELLICOTT CITY, MARYLAND 21042
 410-203-9980

DRAINAGE AREA MAPS AND STORMWATER MANAGEMENT DETAILS
CHESTNUT HILL ESTATES SECTION TWO, BLOCK E
 LOT 13 & LOT 14
 ZONED: R-20
 TAX MAP 18 GRID 13
 2ND ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 PARCEL 178

SILL ENGINEERING GROUP, LLC
 11130 Dovedale Court, Suite 200
 Marriottsville, Maryland 21104
 Phone: 443.325.5076
 Fax: 410.696.2022
 Email: info@sillengineering.com
 Civil Engineering for Land Development

DESIGN BY: PS
 DRAWN BY: AEA
 CHECKED BY: PS
 SCALE: AS SHOWN
 DATE: MAY 7, 2018
 PROJECT #: 17-008
 SHEET #: 5 of 5

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, 2019.