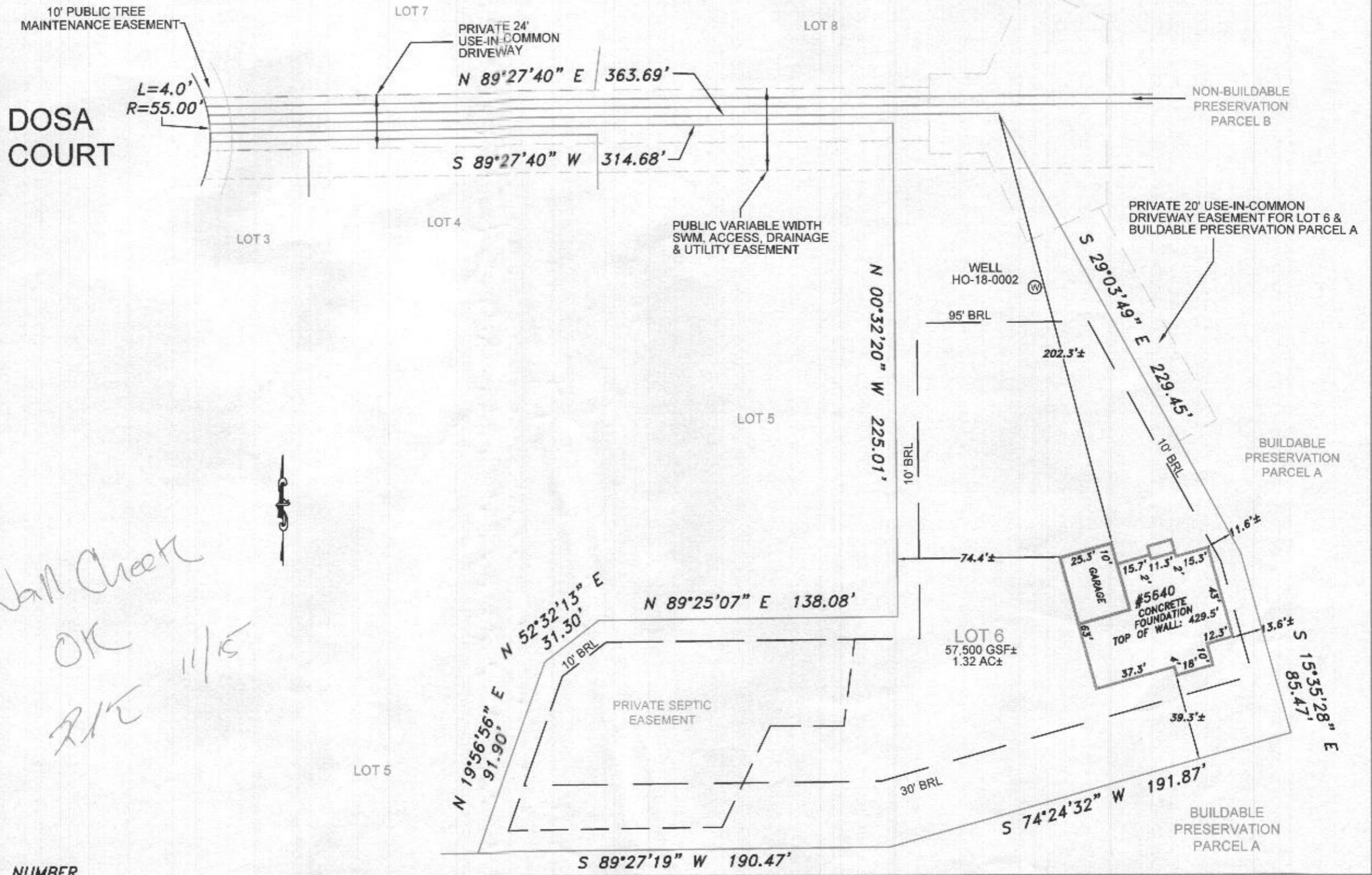


GENERAL NOTES:

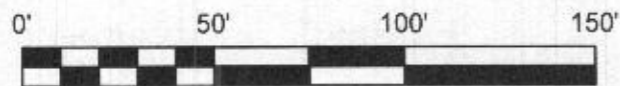
- 1) The accuracy of the distances shown from any structure to any apparent property line is 1'±.
- 2) This drawing does not represent a Boundary Survey. Any property markers labeled hereon are not guaranteed by NTT Associates, Inc.
- 3) This plat is of benefit to a consumer only insofar as it is required by a lender, a title insurance company or its agent in connection with contemplated transfer, financing, or refinancing.
- 4) This plat does not provide for the accurate identification of property boundary lines, but such identification may not be required, for the transfer of title or securing financing or refinancing.
- 5) This plat is not to be relied upon for the establishment or location of fences, garages, buildings, or other existing or future improvements.
- 6) Unless noted on the drawing, no title report was provided. This drawing was prepared by examining the current title deed or record plat. Any easements, restrictions, rights of way, or any other property alterations not referred to in the current title deed may not be shown.
- 7) Unless otherwise noted, the bearings and north arrow shown hereon are in the meridian of the current title deed or record plat.
- 8) Building Restriction Line information, if shown, was obtained from existing records only and is not guaranteed by NTT Associates, Inc.
- 9) Flood Zone information shown on FIRM maps is subject to interpretation.
- 10) Improvements which in the surveyor's opinion appear to be in a state of disrepair or considered "temporary" may not be shown.
- 11) If it appears encroachments may exist, a Boundary Survey is recommended to determine the exact location of the property boundary lines and improvements.
- 12) The locations of fence lines, if shown, are approximate.

Subject property is shown in Zone X on the FIRM Map of Howard County, Maryland on Community Panel Number 24027C0130 D, effective 11/06/2013

*Wall Check
OK
R/E 11/15*



REVISED 11/11/2021 TO SHOW WELL NUMBER



The purpose of this drawing is to locate, describe, and represent the positions of buildings and substantial improvements affecting the property shown hereon, being known as: LOT 6 as shown on the plat entitled "THE WOODLANDS" recorded among the land records of Howard County, Maryland in Plat Number 25052

This is to certify that I either personally prepared or was in responsible charge over the preparation of this drawing and the surveying work reflected in it, all set forth in Regulation .12 of Chapter 09.13.06 of the Code of Maryland Annotated Regulations.



WALL CHECK
5640 DOSA COURT
5th ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

NTT Associates, Inc.
16205 Old Frederick Rd.
Mt. Airy, Maryland 21771
Phone: (410) 442-2031
Fax: (410) 442-1315
www.nttsurveyors.com

Scale: 1" = 50'
Date: 10/20/2021
Field By: CB
Drawn By: SCK
File No.: SEG20-003 AAF
Page No.: 1 of 1

OPT. 7' AREAWAY

(3) 8'-0" GARAGE DR. FOUNDATION

OK MB
8/6/2021

REVISED
Date: 8/5/21
Comments: B21-2657

REVISED 2/21

Plymouth Road Architects
640 Plymouth Road, Catonsville, MD 21229 410-788-0281

DATE	REVISION

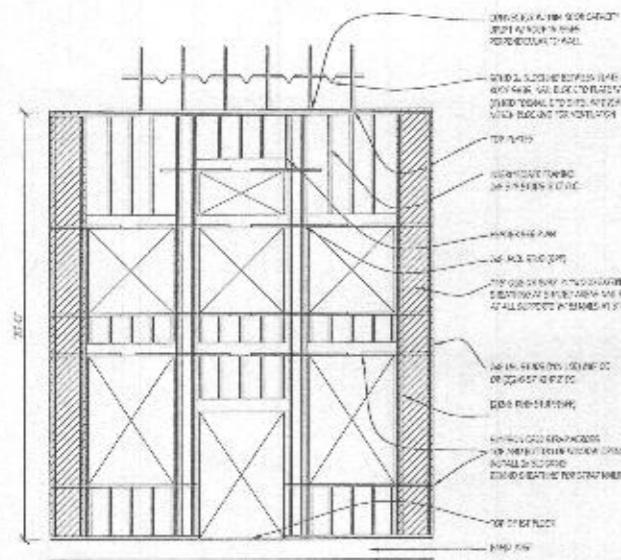
Date: 10/15
Scale: 1/4" = 1'-0"
Drawn: TDM

Drawing: STD. BSM7/FOUNDATION PLAN
Project: WILLIAMSBURG GROUP
WELLINGTON ESTATE HOME

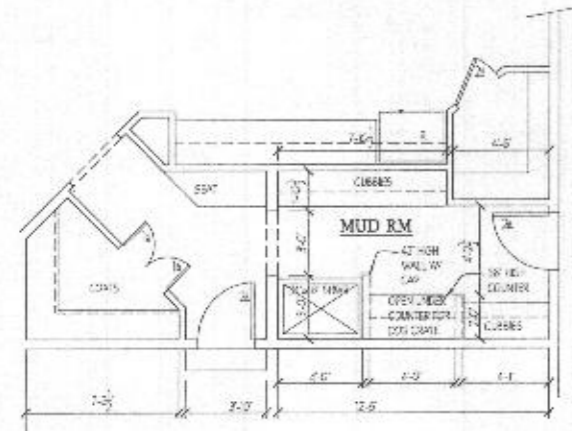
1067 WJH
Project No.

2a

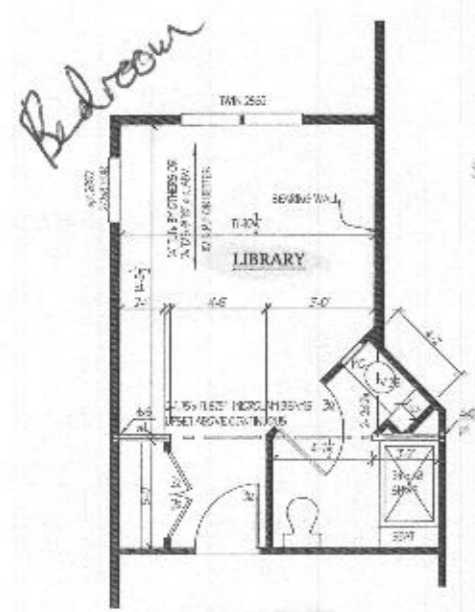
wbL006 - The Woodlands Lot 6 5040 Dosa Court



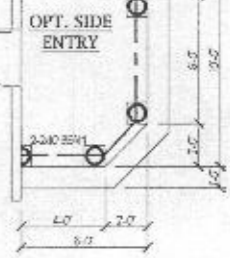
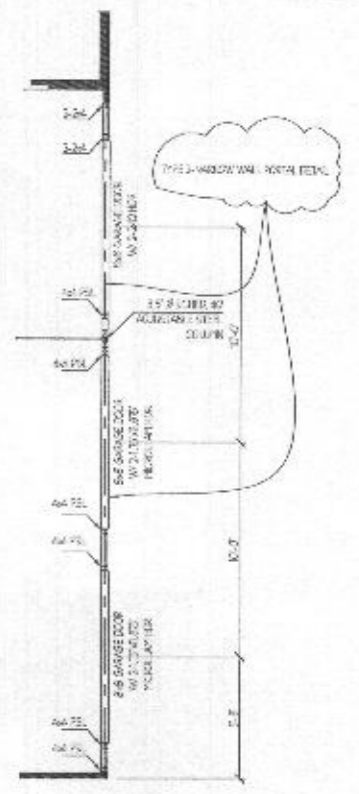
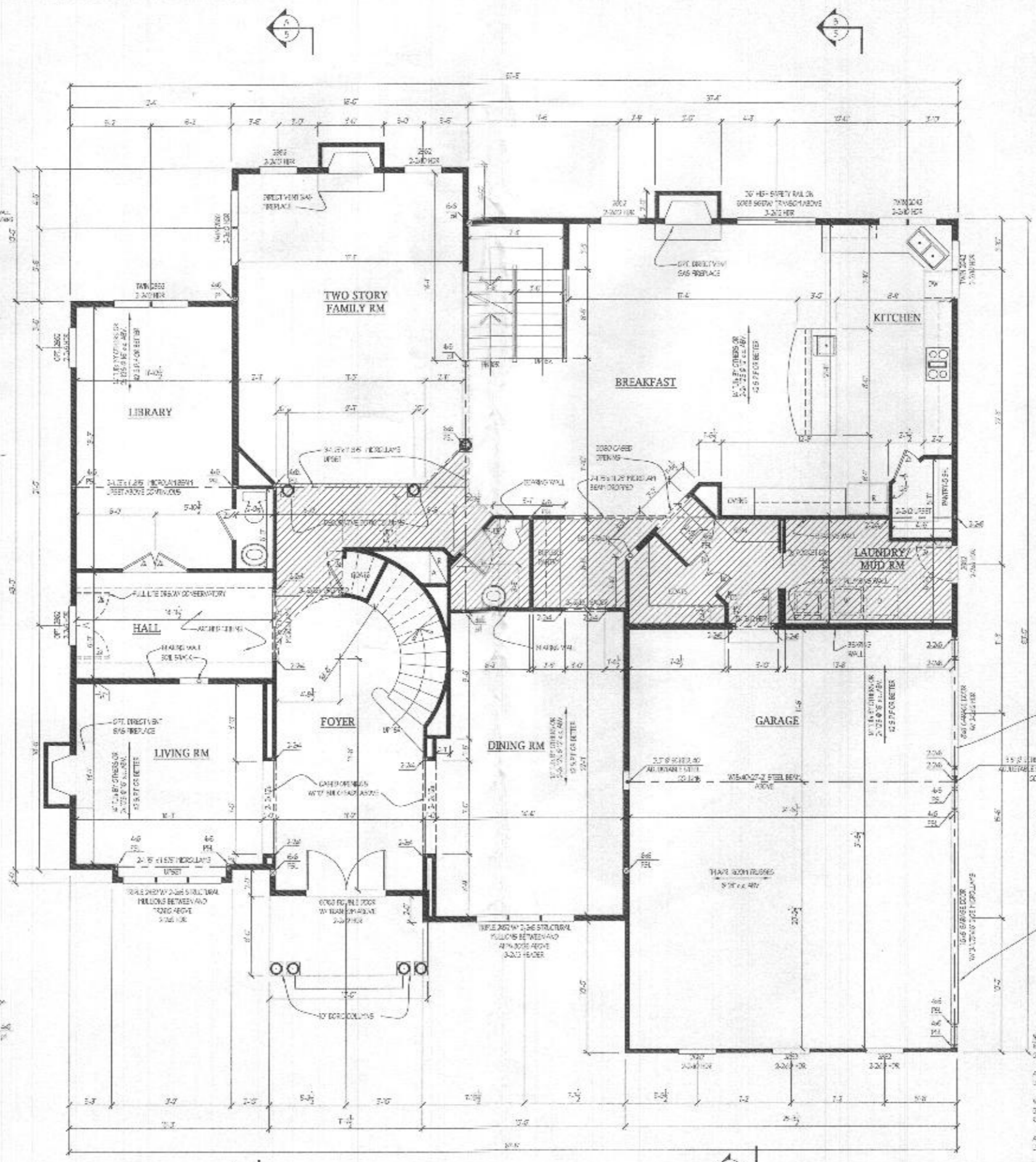
FAMILY RM WALL BRACING DETAIL



ALT. MUD RM.



LIBRARY - shown w/ full bath



NOTES:
 1. ALL DIMENSIONS ARE AT 2'-0" UNLESS NOTED OTHERWISE.
 2. ALL HEADERS IN BARRIO WALLS ARE 2x6'S UNLESS NOTED OTHERWISE.
 3. WOOD COLUMNS ARE 4x4 UNLESS NOTED OTHERWISE.
 4. ALL EXTERIOR WALLS TO BE AS SHOWN UNLESS OTHERWISE NOTED.
 5. SEE ARCHITECT'S ENGINEER'S DRAWINGS FOR STRUCTURAL REQUIREMENTS AND FOR FLOOR FINISHES TO BE ACCEPTABLE.

REVISED 2/21

Plymouth Road Architects
 640 Plymouth Road, Catonsville, MD 21229 410-788-0281

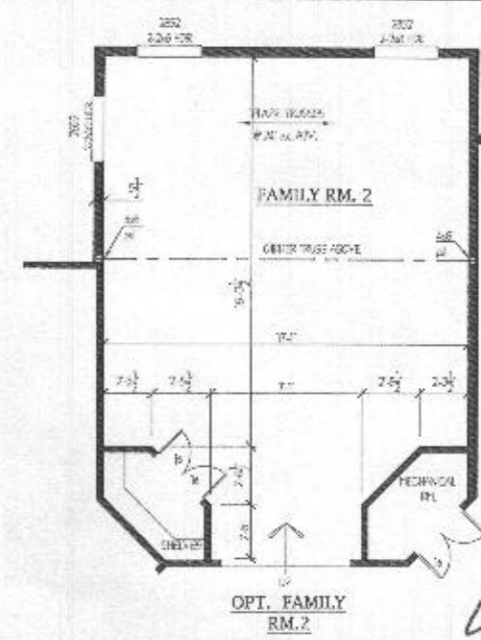
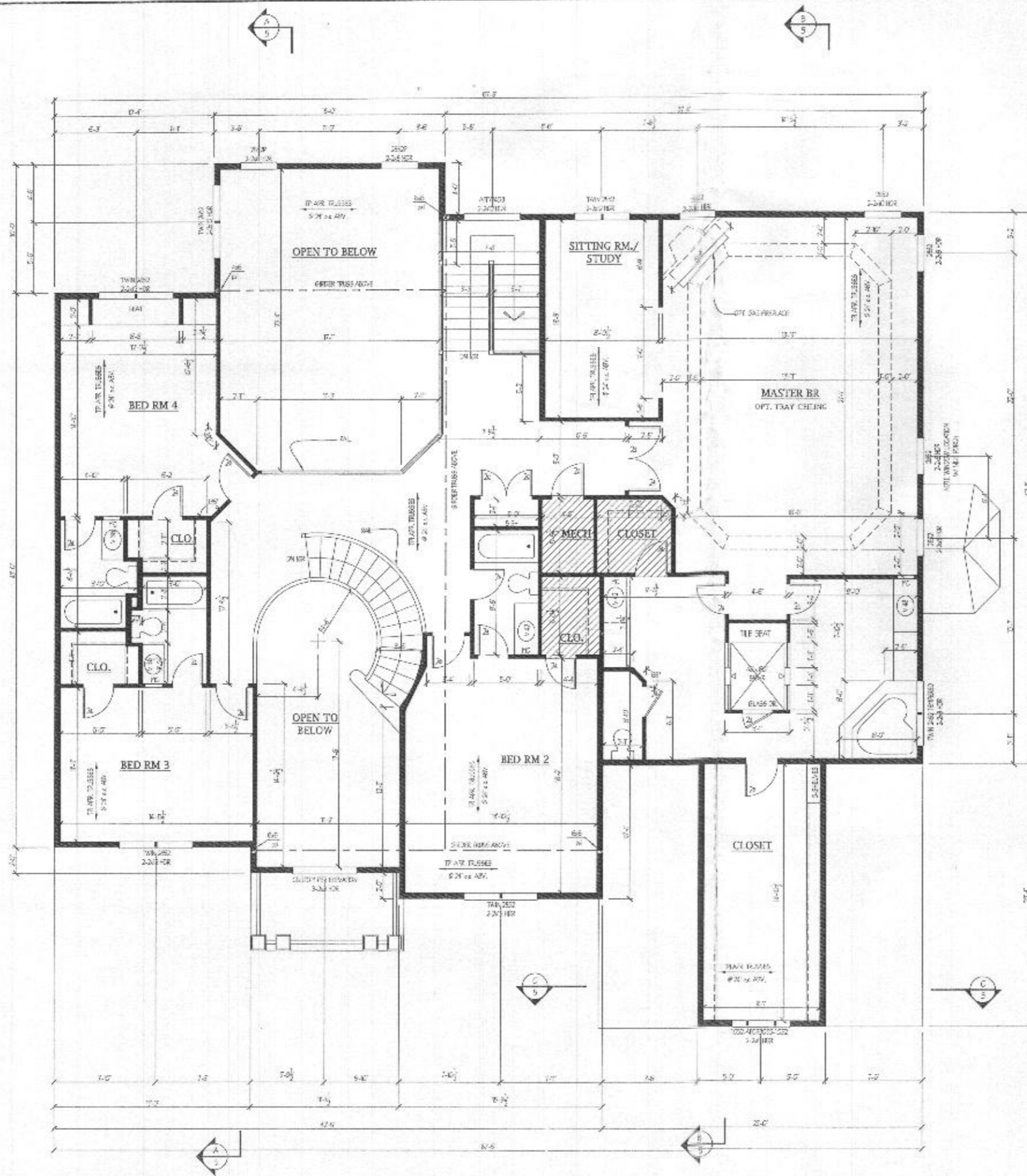
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 Drawn: TIM

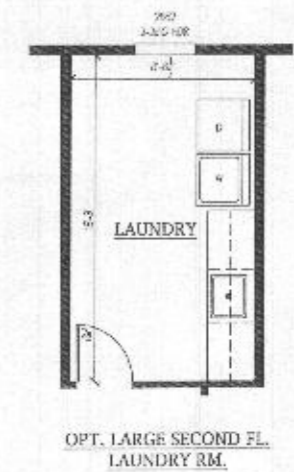
Drawing: STANDARD FIRST FL. PLAN
 Project: WILLIAMSBURG GROUP
 WILLINGTON ESTATE HOME

1067 WEH
 Project No.

3



4 bedrooms



NOTES:
 1. DIMENSIONS ARE AS NOTED UNLESS NOTED OTHERWISE.
 2. ALL HEADERS IN BEAMS SHALL BE 2x4 UNLESS NOTED OTHERWISE.
 3. ALL INTERIOR WALLS TO BE 5/8" GYPSUM BOARD.
 4. ALL EXTERIOR WALLS TO BE 2x8 GYPSUM BOARD.
 5. 10% SUBSTITUTION OF EQUIVALENTS PERMITTED BY OTHERS IN LIEU OF INDETERMINATE SUPPLIER MATERIALS TO BE USED IS ALLOWED.

Plymouth Road Architects
 840 Plymouth Road, Catonsville, MD 21229 410-788-0281

DATE	REVISION

Date: 10/15
 Scale: 1/4" = 1'-0"
 Drawn: TUM

Drawing: STD. SECOND FLOOR PLAN
 Project: WILLIAMSBURG GROUP
 WELLINGTON ESTATE HOME

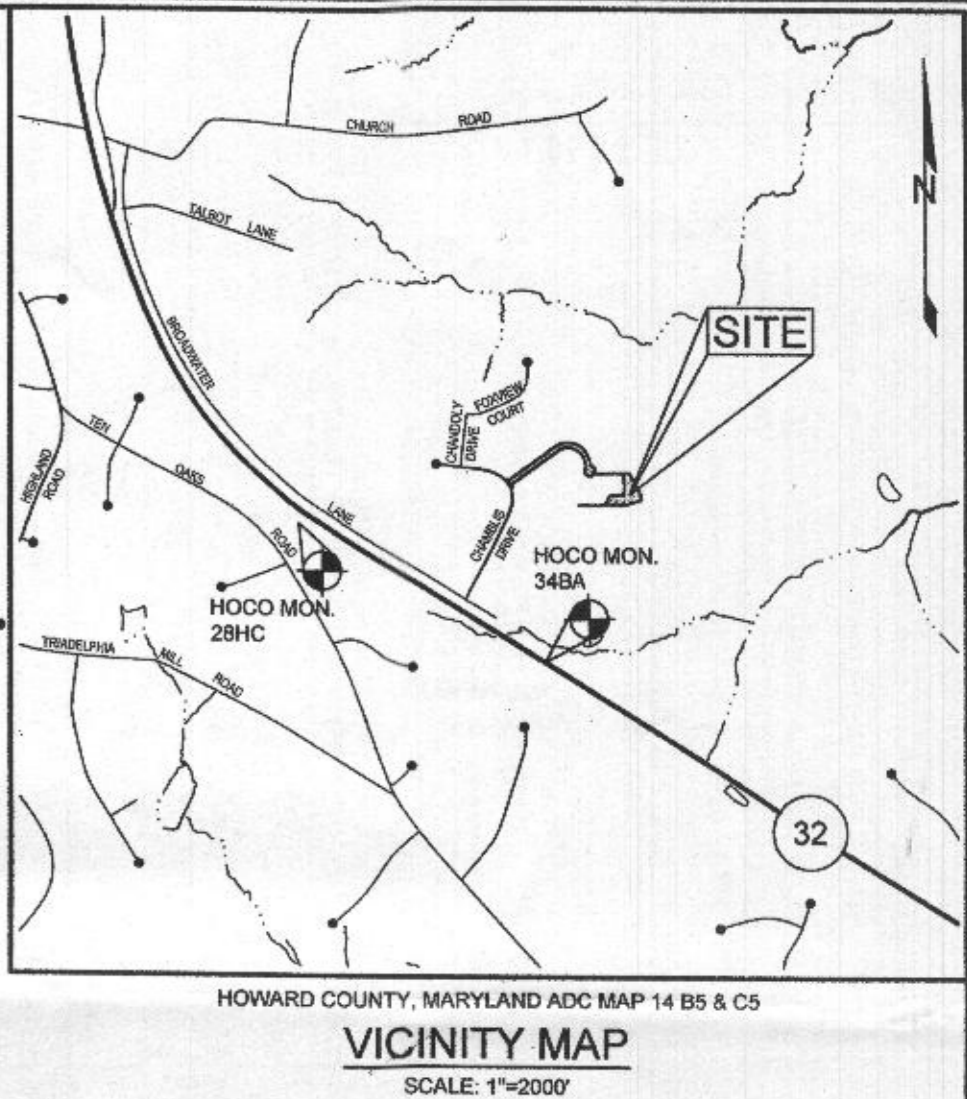
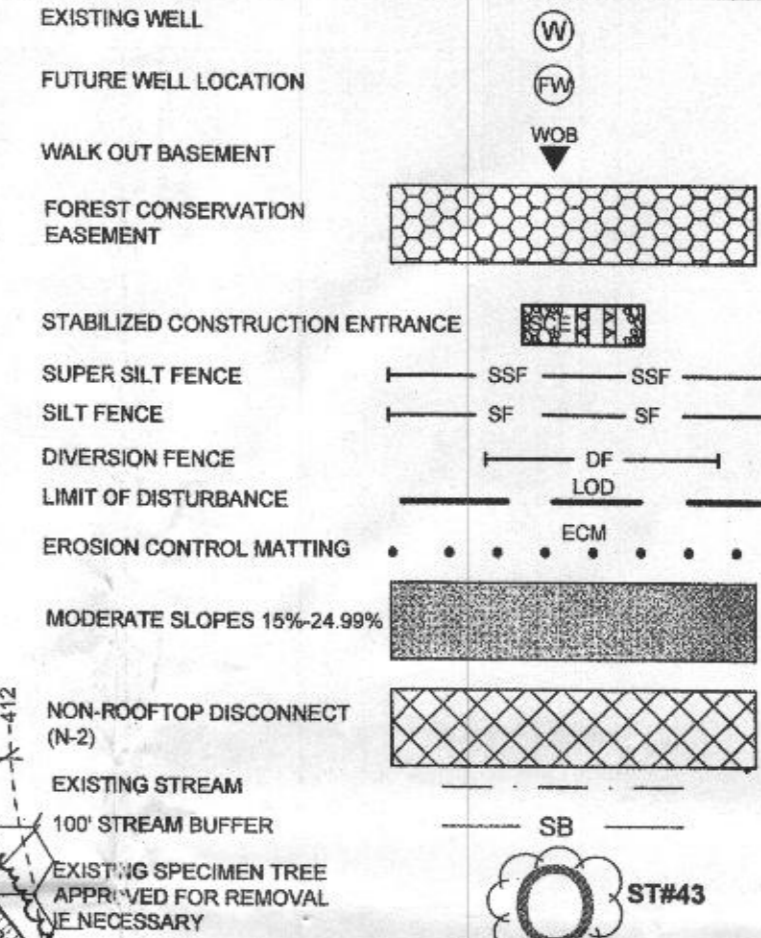
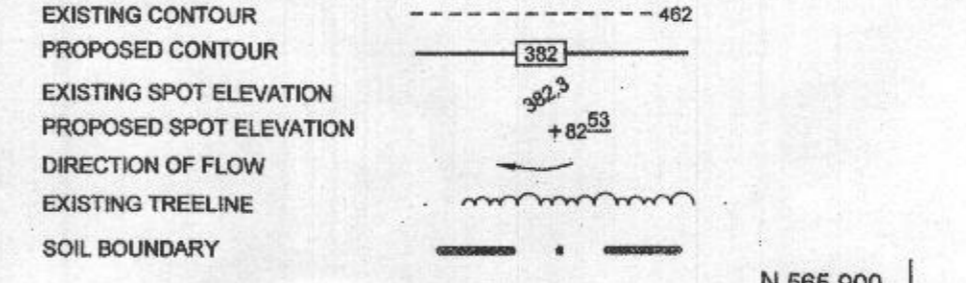
1067 WFH
 Project No.

4

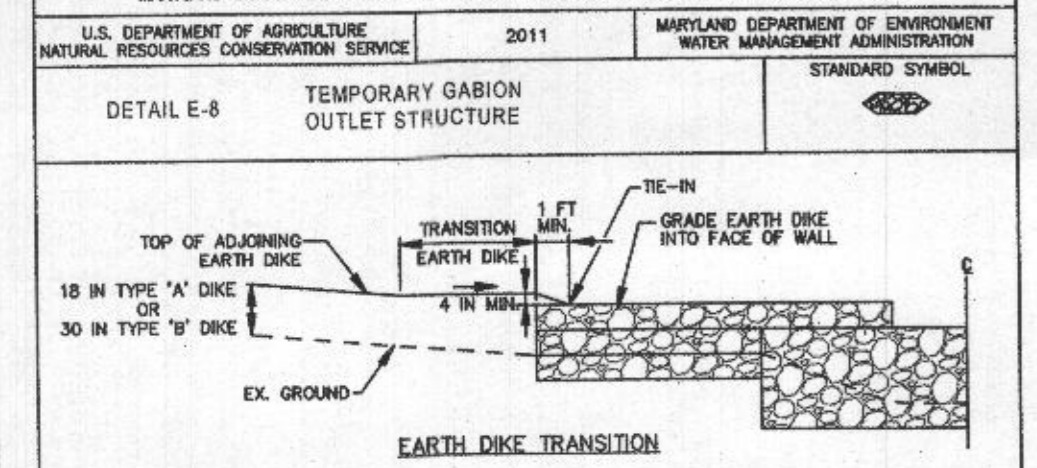
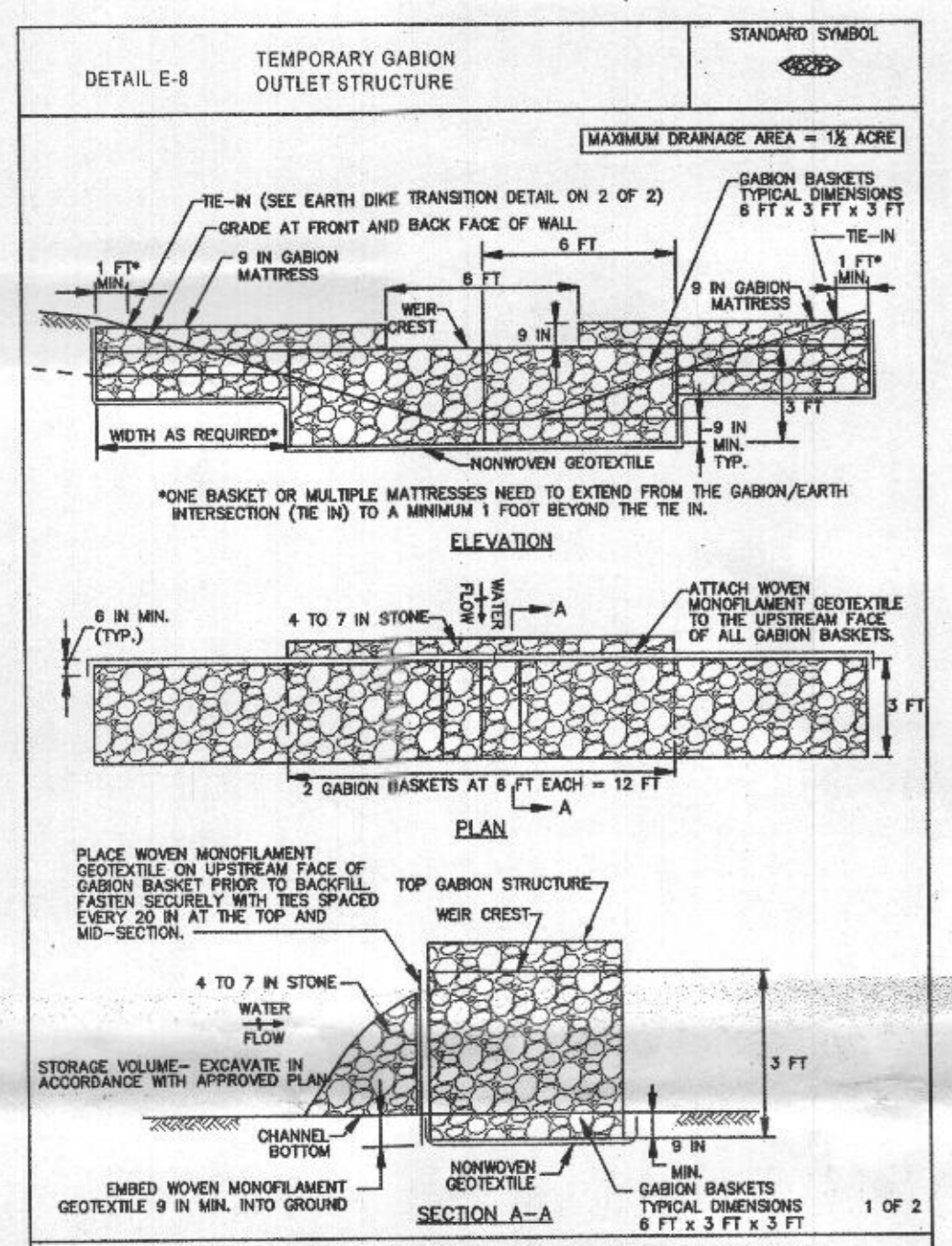
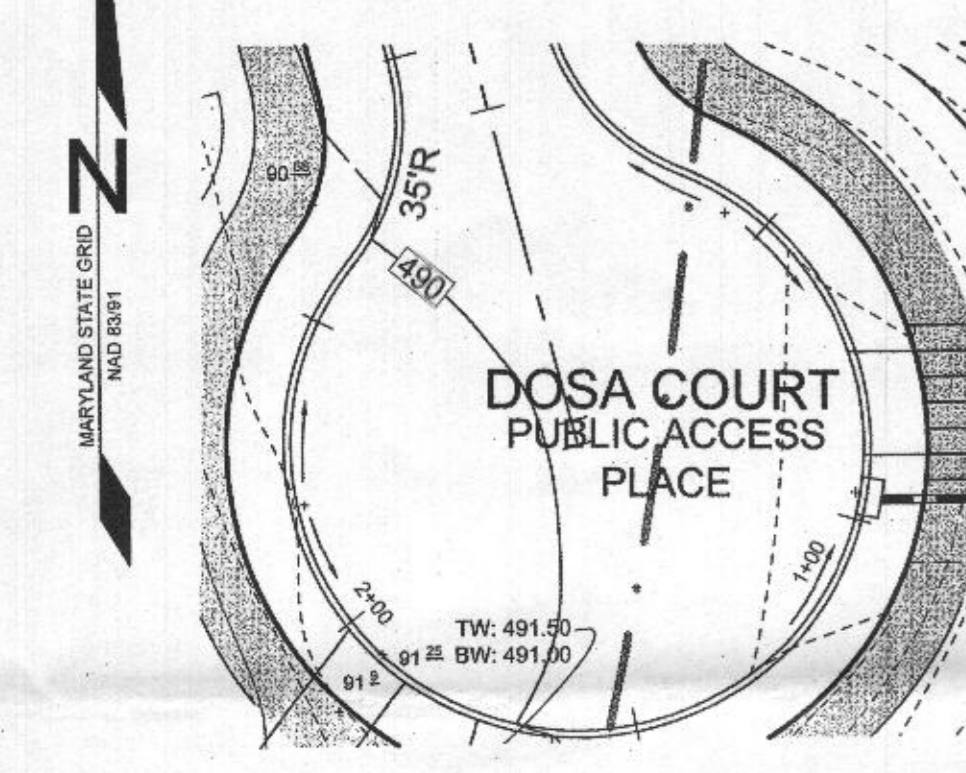
REVISED 9/20

SOILS LEGEND			
SYMBOL	NAME / DESCRIPTION	GROUP	K' FACTOR
GmC	GAILA LOAM, 8 TO 15 PERCENT SLOPES	B	0.24
GmB	GLENVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES	C	0.37

LEGEND



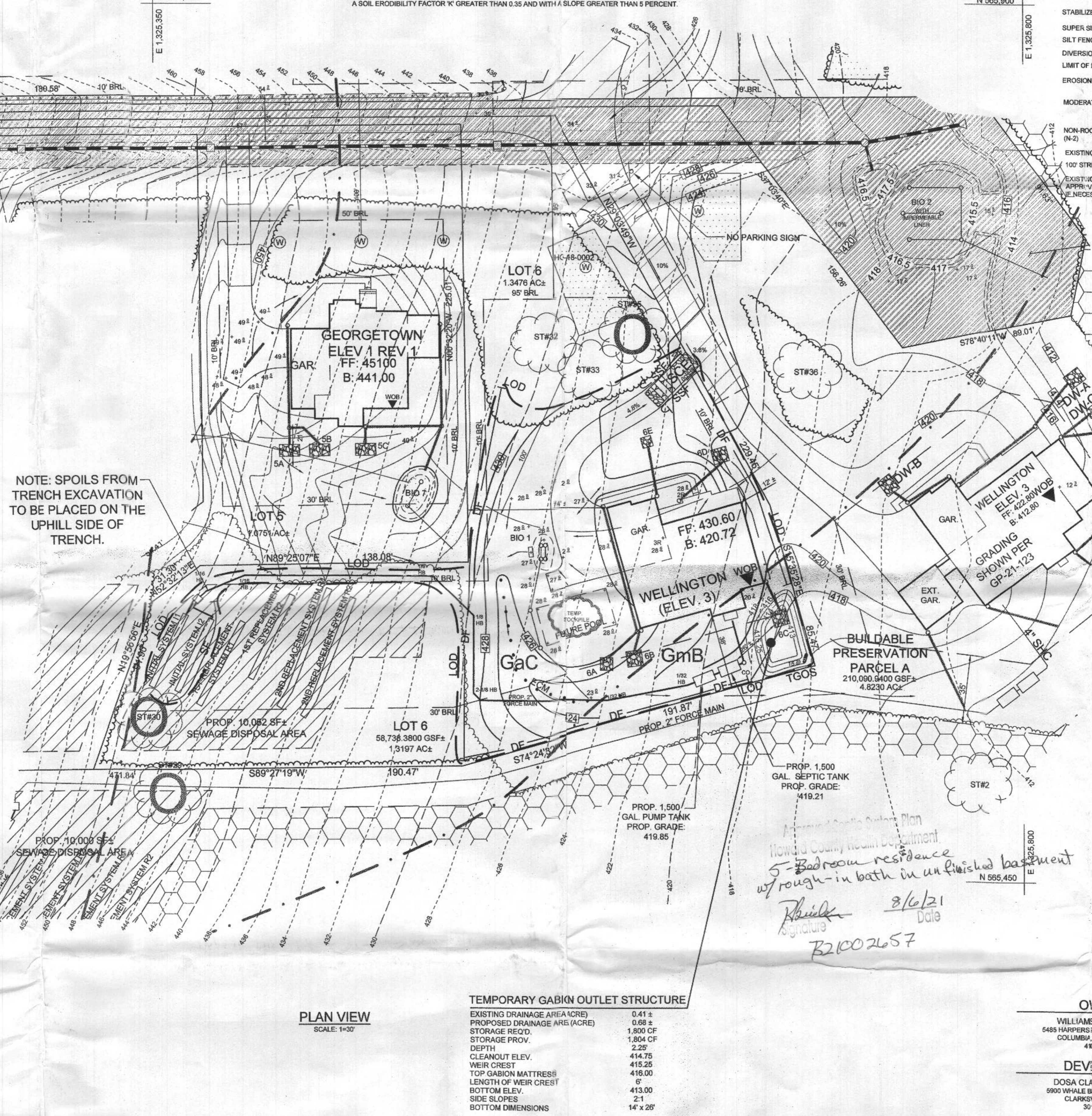
NOTES:
 1) SOIL INFORMATION HAS BEEN TAKEN FROM THE UNITED STATES DEPARTMENT OF AGRICULTURE, NATURAL RESOURCES CONSERVATION SERVICE, WEB SOIL SURVEY, SOILS GRID 12, SUB-GRID 205.
 2) HIGHLY ERODIBLE SOILS ARE THOSE SOILS WITH A SLOPE GREATER THAN 15 PERCENT OR THOSE SOILS WITH A SOIL ERODIBILITY FACTOR 'K' GREATER THAN 0.35 AND WITH A SLOPE GREATER THAN 5 PERCENT.



NOTES:
 1. PROVIDE TRANSITION LENGTH AND HEIGHT AS SPECIFIED ON PLAN. HEIGHT OF TRANSITION EARTH DIKE MUST EXCEED 4 INCH MINIMUM FREEBOARD ABOVE TOP OF GABION AND EXTEND AT THIS ELEVATION UNTIL IT INTERSECTS THE TOP OF ADJACENT EARTH DIKE.
 2. PROVIDE POSITIVE DRAINAGE ALONG EARTH DIKE TO GABION OUTLET STRUCTURE.
 3. COMPACT FILL.
 4. SHAPE EARTH DIKE TO LINE, GRADE, AND CROSS SECTION AS SPECIFIED ON PLAN. BANK PROJECTIONS OR IRREGULARITIES ARE NOT ALLOWED.

CONSTRUCTION SPECIFICATIONS
 1. PROVIDE STORAGE VOLUME AS SPECIFIED ON APPROVED PLANS.
 2. USE BASKETS MADE OF 11 GAUGE WIRE OR HEAVIER.
 3. USE NONWOVEN AND WOVEN MONOLAMINAR GEOTEXTILES AS SPECIFIED IN SECTION H-1 MATERIALS.
 4. INSTALL GABIONS IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS.
 5. EMBED THE GABION OUTLET STRUCTURE INTO THE SOIL A MINIMUM OF 9 INCHES. PROVIDE NONWOVEN GEOTEXTILE UNDER ALL GABIONS.
 6. FILL GABION BASKETS WITH CLEAN 4 TO 7 INCH STONE OR EQUIVALENT RECYCLED CONCRETE WITHOUT REBAR OR WIRE MESH.
 7. MAKE THE WEIR CREST OF THE GABION OUTLET STRUCTURE 9 INCHES LOWER THAN THE TOP OF THE ADJACENT GABIONS.
 8. PROVIDE A MINIMUM WEIR CREST OF 6 FEET.
 9. ATTACH WOVEN MONOLAMINAR GEOTEXTILE TO THE UPSTREAM FACE OF GABION BASKETS AND COVER WITH 4 TO 7 INCH STONE.
 10. REMOVE SEDIMENT WHEN IT HAS ACCUMULATED TO WITHIN 12 INCHES OF THE WEIR CREST. REPLACE GEOTEXTILE AND STONE FACING WHEN STRUCTURE CEASES TO FUNCTION. MAINTAIN LINE, GRADE, AND CROSS SECTION.
 11. UPON REMOVAL OF GABION OUTLET STRUCTURE, GRADE AREA FLUSH WITH EXISTING GROUND, WITHIN 24 HOURS STABILIZE DISTURBED AREA WITH TOPSOIL, SEED, AND MULCH, OR AS SPECIFIED ON APPROVED PLAN.

NOTE: SPOILS FROM TRENCH EXCAVATION TO BE PLACED ON THE UPHILL SIDE OF TRENCH.



BENCHMARKS				
NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
28HC	565,351.762	1,332,102.463	652.207	5' SIDE OF ROUTE 32, 0.2 MILES W OF EXIT 20 SIGN, 44' 33.0' E OF GUARD RAIL
34BA	563,652.491	1,324,072.167	450.048	2.5' N OF EDGE OF PAVEMENT OF ROUTE 32, 13.3' SE OF EXIT 20 SIGN

GENERAL NOTES

- SUBJECT PROPERTY ZONED RC-DEO PER 1006/13 COMPREHENSIVE ZONING PLAN.
- PROPERTY ADDRESS: 5640 DOSA COURT, CLARKSVILLE 21029
- TOTAL AREA OF PROPERTY = 21.21 AC ±
- PRIVATE WATER AND PRIVATE SEWER WILL BE USED WITHIN THIS SITE.
- ZZZ THIS AREA DESIGNATES A PRIVATE SEWAGE AREA 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 AREAS 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 AREA. RECORDATION OF A MODIFIED SEWAGE AREA SHALL NOT BE NECESSARY. THE BOUNDARY SHOWN HEREON IS BASED ON A FIELD RUN BOUNDARY SURVEY PREPARED BY ADCOCK & ASSOCIATES, LLC ON SEPTEMBER 16, 2014.
- THE TOPOGRAPHY SHOWN HEREON HAS BEEN FIELD RUN BY ADCOCK & ASSOCIATES, LLC. ON SEPTEMBER 16, 2014. THE EXISTING TOPOGRAPHY SHOWN OUTSIDE THE SITE IS BASED ON HOWARD COUNTY AERIAL TOPOGRAPHY FLOWN IN 2004.
- REFERENCE: RECORDED PLAT NO. 25051.
- PREVIOUS HOWARD COUNTY FILE NUMBERS: RECORD PLAT NO. 5471, F-83-114, ECP-15-032, WP-16-017, WP-17-060, SP-16-008, PB 431, WP-18-127, RECORD PLAT NO. 25051, F-18-094.
- THE SOILS SHOWN HAVE BEEN TAKEN FROM THE U.S. DEPARTMENT OF AGRICULTURE, NATURAL RESOURCE CONSERVATION SERVICE, WEB SOIL SURVEY WEBSITE, HOWARD COUNTY SOILS GRID 12, SUB-GRID 205.
- A WETLAND AND STREAM STUDY HAS BEEN PREPARED BY ECO SCIENCE PROFESSIONALS INC. IN NOVEMBER 2014.
- 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 AREAS 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 AREAS 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 CONTRACTOR'S 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 CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
- GEOTECHNICAL INFORMATION HAS BEEN TAKEN FROM THE U.S. DEPARTMENT OF AGRICULTURE, NATURAL RESOURCE CONSERVATION SERVICE, WEB SOIL SURVEY WEBSITE AND FIELD INVESTIGATIONS. IF FUTURE INVESTIGATIONS SHOW UNSATISFACTORY SOIL CONDITIONS FOR ANY OF THE STORMWATER MANAGEMENT TREATMENTS SHOWN, EITHER UNDERDRAINS WILL BE PROVIDED OR A DIFFERENT PRACTICE WILL BE SUBSTITUTED.
- STORMWATER MANAGEMENT OBLIGATIONS FOR THIS SITE WILL BE MET ONE MICRO-BIORETENTION FLOWN (M-6), FIVE DRYWELL (M-5), AND ONE NON-ROOF TOP DISCONNECTS (N-2).
- 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 28HC AND 34BA 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 ALTERNATIVE COMPLIANCE HAS BEEN APPROVED OR ACTIVITIES HAVE BEEN DETERMINED ESSENTIAL BY THE DEPARTMENT OF PLANNING AND ZONING.
- FOREST CONSERVATION OBLIGATIONS HAVE BEEN FULFILLED UNDER F-18-019.
- ALL SWALES TO HAVE EROSION CONTROL MATTING.
- ANY VEGETATION WITHIN AND NEAR TO WELLS ZONES OR SEWAGE DISPOSAL AREAS POTENTIALLY COULD BE DAMAGED OR DESTROYED DURING INSTALLATION OF WELLS OR SEPTIC SYSTEMS. ALL SPECIMEN TREES WITHIN OR NEAR SDA OR WELL ZONES HAVE BEEN DESIGNATED FOR REMOVAL AND APPROVED FOR REMOVAL UNDER SP-16-008 AND WP-17-060.
- DRIVEWAYS SHALL BE PROVIDED PRIOR TO ISSUANCE OF AN USE AND OCCUPANCY PERMIT FOR ANY NEW DWELLINGS TO ENSURE SAFE ACCESS FOR FIRE AND EMERGENCY VEHICLES PER THE FOLLOWING REQUIREMENTS:
 - WIDTH - 12 FEET (16 FEET SERVING MORE THAN ONE RESIDENCE)
 - SURFACE - SIX (6) INCHES OF COMPACTED CRUSHER RUN BASE WITH TAR AND CHIP COATING (1-1/2" MINIMUM)
 - GEOMETRY - MAXIMUM 10% GRADE, MAXIMUM 10% GRADE CHANGE AND 45-FOOT TURNING RADII
 - STRUCTURES (CULVERTS/BRIDGES) - CAPABLE OF SUPPORTING 25 GROSS TONS (H25-LOADING)
 - DRAINAGE ELEMENTS - CAPABLE OF SAFELY PASSING 100 YEAR FLOOD WITH NO MORE THAN 1 FOOT DEPTH OVER DRIVEWAY SURFACE
 - MAINTENANCE - SUFFICIENT TO ENSURE ALL WEATHER USE
 - DRIVEWAY ENTRANCES TO BE PER HOWARD COUNTY STANDARD DETAIL R-6.05 FOR DRIVEWAY LOTS, 1, 2, AND THE USE IN COMMON DRIVEWAY FOR LOTS 3, 4, 5, 6, 7, AND 8, AND BUILDABLE PRESERVATION PARCEL A.
- TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH CAN AND SHALL BE BACKFILLED AND STABILIZED BY THE END OF EACH WORKDAY, WHICHEVER IS SHORTER.

TEMPORARY GABION OUTLET STRUCTURE	
EXISTING DRAINAGE AREA (ACRE)	0.41 ±
PROPOSED DRAINAGE AREA (ACRE)	0.68 ±
STORAGE REQ'D.	1,800 CF
STORAGE PROV.	1,804 CF
DEPTH	2.25'
CLEANOUT ELEV.	414.75
WEIR CREST	415.25
TOP GABION MATRESS	416.00
LENGTH OF WEIR CREST	6'
BOTTOM ELEV.	413.00
SIDE SLOPES	2:1
BOTTOM DIMENSIONS	14' x 26'

PLAN VIEW
SCALE: 1"=30'

SHEET INDEX	
SHEET NO.	DESCRIPTION
1	SEDIMENT AND EROSION CONTROL PLAN
2	SEDIMENT AND EROSION CONTROL NOTES AND DETAILS
3	STORMWATER MANAGEMENT PLAN, NOTES, AND DETAILS

OWNER
 WILLIAMSBURG GROUP
 5488 HARPERS FARM ROAD, SUITE 200
 COLUMBIA, MARYLAND 21044
 410.997.8800

DEVELOPER
 DOSA CLARKSVILLE, LLC
 9900 WHALE BDAT DRIVE UNIT 8206
 CLARKSVILLE MD, 21029
 301.370.6866

SEDIMENT AND EROSION CONTROL PLAN
THE WOODLANDS
 5640 DOSA COURT, LOT 6

TAX MAP 28 GRID 23
 5TH ELECTION DISTRICT

PARCEL 15
 HOWARD COUNTY, MARYLAND

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

John R. Robertson
 HOWARD SCD
 DATE: 6/16/21

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.

Paul M. Sill, P.E.
 SIGNATURE OF ENGINEER
 DATE: 6/16/21

DEVELOPER'S CERTIFICATE
 I/WE 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.

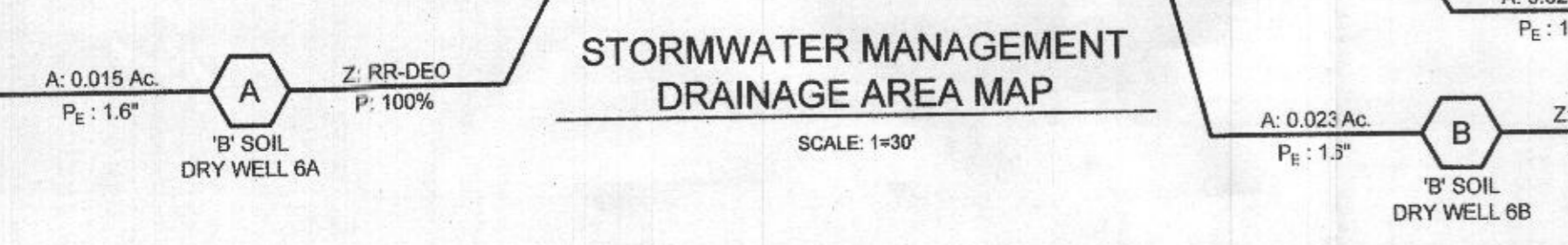
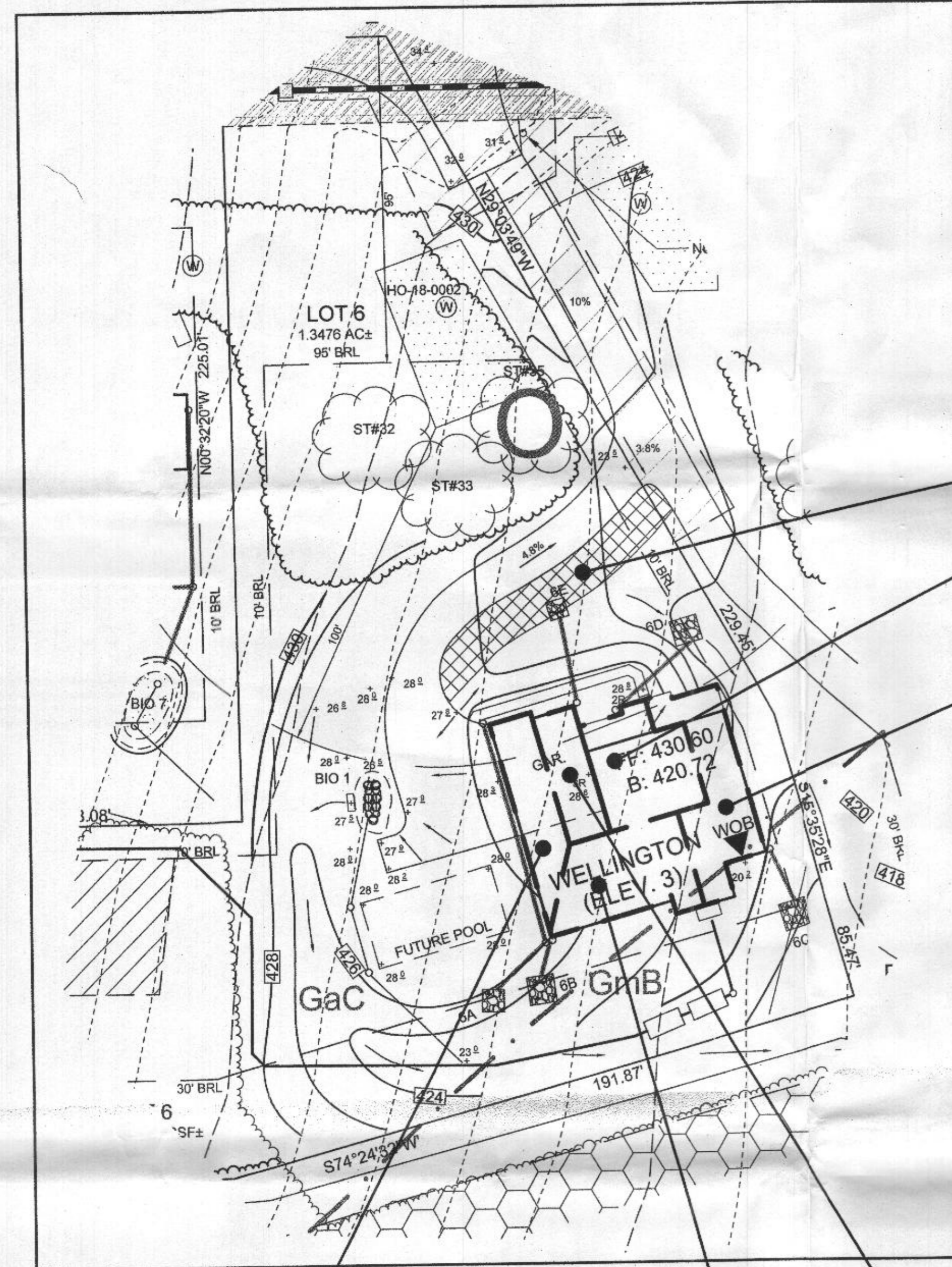
Mark D. Morris
 SIGNATURE OF DEVELOPER
 DATE: 6/16/21

NO.	DESCRIPTION	DATE

SILL ENGINEERING GROUP, LLC
 16003 Frederick Road, 2nd Floor
 Woodbine, Maryland 21797
 Phone: 410.725.3076
 Fax: 410.696.2022
 Email: info@sillengineering.com
 Civil Engineering for Land Development

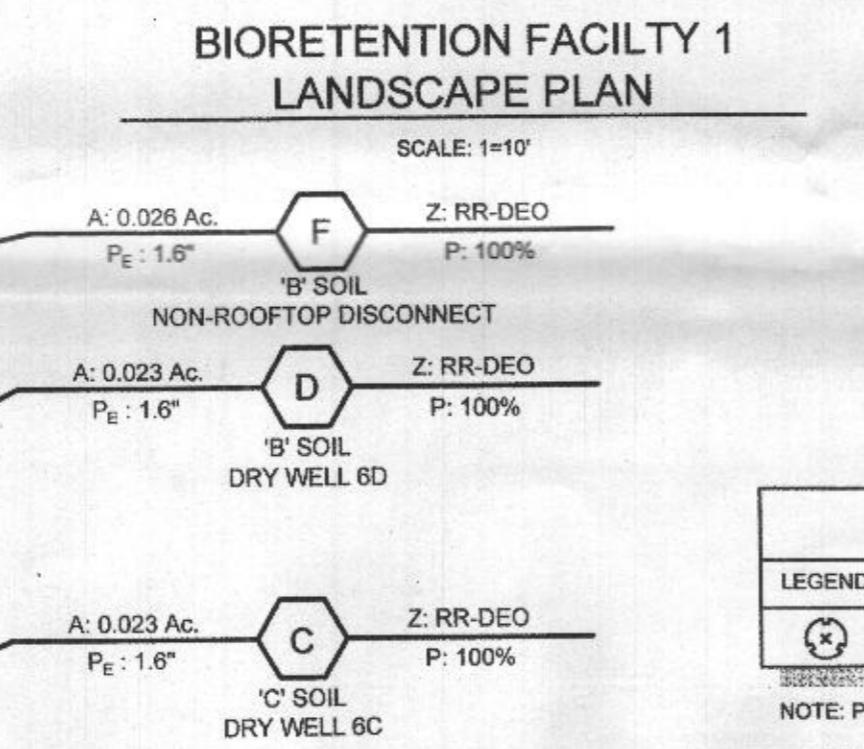
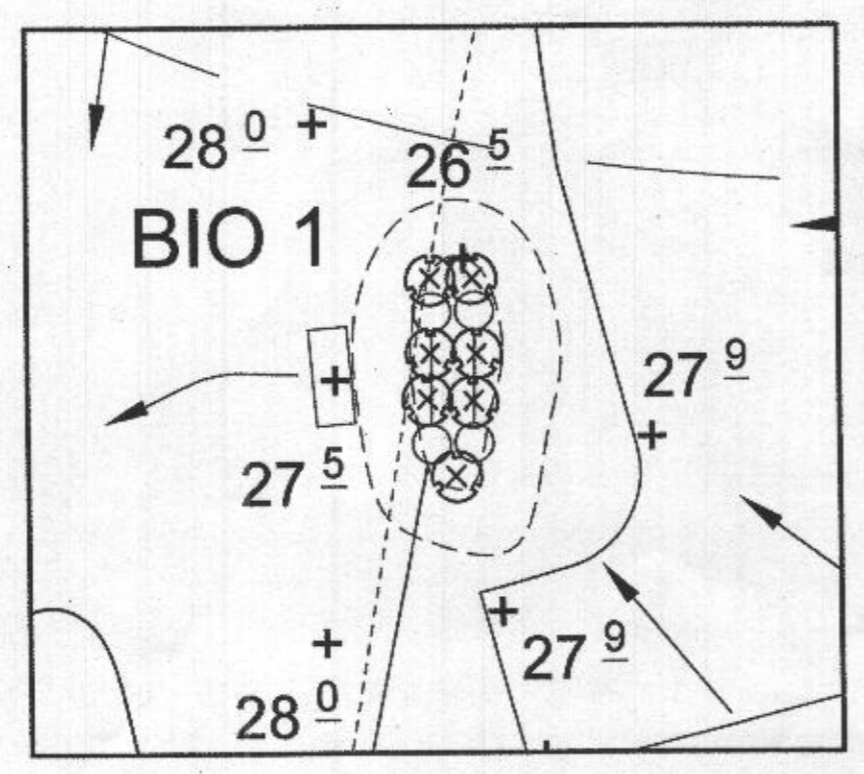
DESIGN BY: PS
 DRAWN BY: SZS
 CHECKED BY: PS
 SCALE: AS SHOWN
 DATE: JUNE 10, 2021
 PROJECT #: 14-029
 SHEET #: 1 of 3

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. 33025, EXPIRATION DATE: JUNE 29, 2023



DRYWELL (M-5) DESIGN CHART

LOT	DRYWELL #	VOLUME REQUIRED	VOLUME PROVIDED	WELL SIZE
6	DW 6A	83 CF	83.5 CF	6.5' X 6.5' X 5.0' DEEP
6	DW 6B	126 CF	126 CF	8.0' X 8.0' X 5.0' DEEP
6	DW 6C	122 CF	123 CF	8.0' X 8.0' X 5.0' DEEP
6	DW 6D	118 CF	120 CF	7.5' X 8.0' X 5.0' DEEP
6	DW 6E	81 CF	86.6 CF	5.5' X 5.5' X 5.5' DEEP



BIORETENTION ELEVATIONS AND DIMENSIONS

DESCRIPTION	BIO 1
'A' PONDING DEPTH	1.0'
'B' TOP OF MULCH	426.5
'C' WSEL	427.5
'D' EMBANKMENT WIDTH	2.0'
'E' SPILLWAY WIDTH	5.0'
'F' SPILLWAY LENGTH	2.0'
'G' FACILITY LENGTH	12.0'
'H' FACILITY WIDTH	5.0'
'I' PERF. UNDERDRAIN PIPE DIMENSION	7.0'
'J' UNDERDRAIN PIPE INVERT	423.42
'K' SOLID UNDERDRAIN DIMENSION	85.50'
'L' OUTFALL INVERT	423.00
'M' PERF. OVERFLOW PIPE DIMENSION	7.0'
'N' OVERFLOW PIPE INVERT	423.42
'O' GRAVEL STORAGE DEPTH	2.5'
'P' BOTTOM ELEVATION OF FACILITY	420.75
'Q' GRADE % OF OUTFALL PIPE	0.5%

M-6 MICRO-BIORETENTION PLANT LIST

LEGEND	BOTANICAL NAME	COMMON NAME	SPACING	SIZE	REMARKS	QTY.
(Symbol)	ECHINACEA	PURPLE CONEFLOWER	AS SHOWN (MIN 2' O.C.)	1 GAL		7

NOTE: PLANT MATERIAL MUST COVER 50% OF THE MULCH AREA AT MATURE GROWTH.

MATERIALS SPECIFICATIONS FOR MICRO-BIORETENTION, RAIN GARDEN & LANDSCAPE INFILTRATION

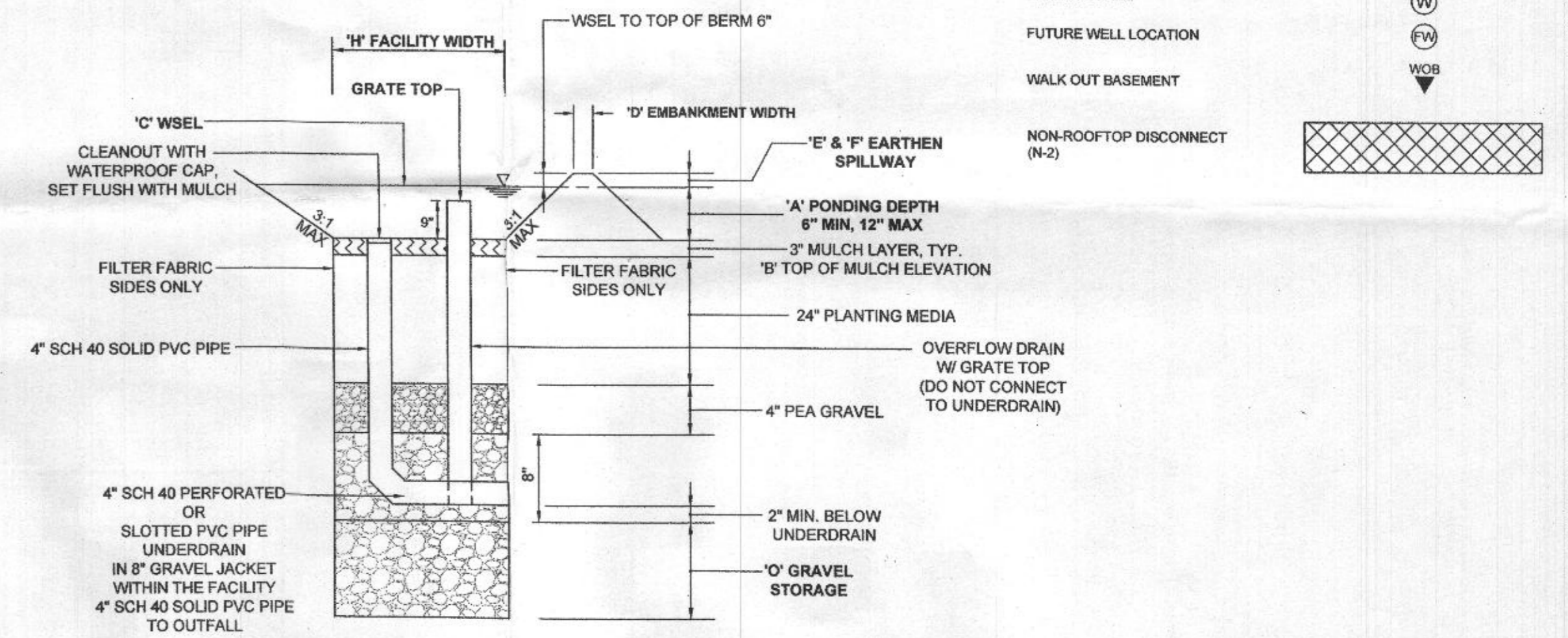
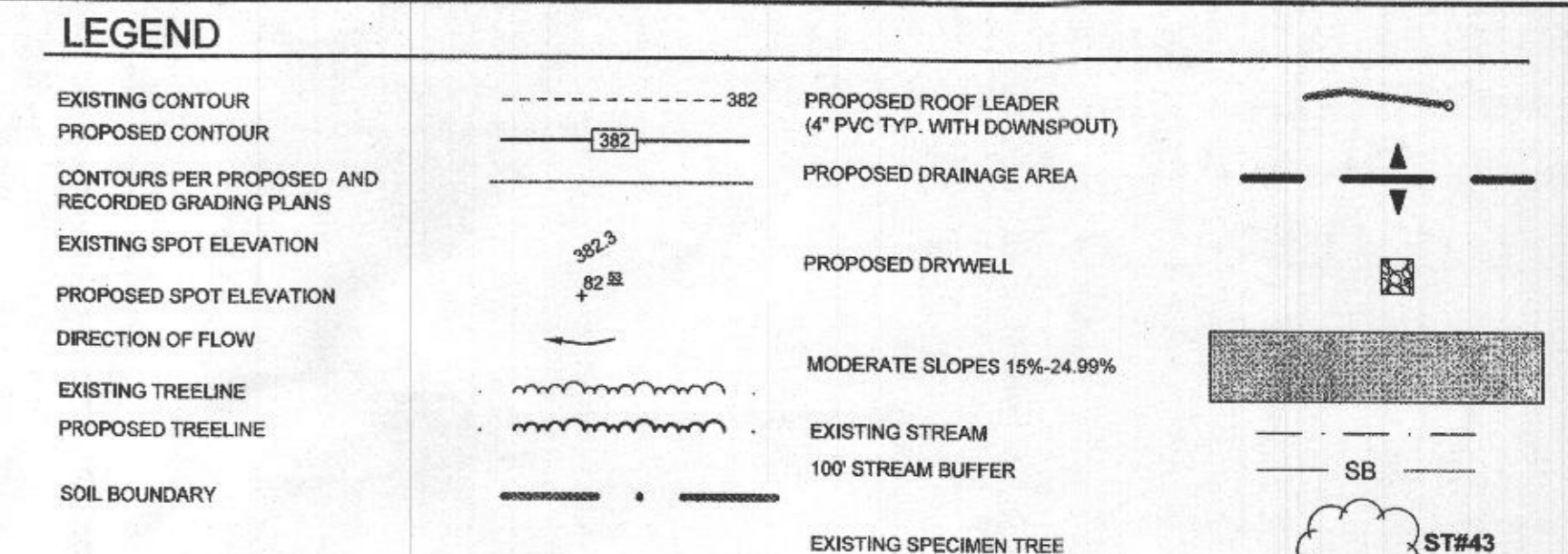
MATERIAL	SPECIFICATION	SIZE	NOTES
PLANTING SOIL (2'-4" TO 4" DEEP)	LOAMY SAND (60% - 65%) & COMPOST (30%-40%) OR SANDY LOAM (30%), COARSE SAND (30%) & COMPOST (40%)	N/A	PLANTINGS ARE SITE-SPECIFIC. SEE PLANT LIST THIS SHEET. USDA SOIL TYPES LOAMY SAND OR SANDY LOAM; CLAY CONTENT < 5%
ORGANIC CONTENT	MIN. 10% BY DRY WEIGHT (ASTM-D-2974)		AGED 6 MONTHS, MINIMUM; NO PINE OR WOOD CHIPS
MULCH	PEA GRAVEL DIAPHRAGM	NO. 8 OR NO. 9 (1/8" TO 3/8")	
CURTAIN DRAIN (IF REQUIRED)	ORNAMENTAL STONE; WASHED COBBLES	STONE: 2" TO 5"	
GEOTEXTILE		N/A	PE TYPE 1 NONWOVEN
UNDERDRAIN GRAVEL	AASHTO M-43	NO. 57 OR NO. 6 AGGREGATE (3/8" TO 3/4")	
UNDERDRAIN PIPING	F 75L, TYPE PS 28 OR AASHTO M-278	4" TO 6" RIGID SCHEDULE 40 PVC OR SDR35	SLOTTED OR PERFORATED PIPE, 3/8" PERF. @ 6" ON CENTER, 4 HOLES PER ROW, MINIMUM OF 3" OF GRAVEL OVER PIPES; NOT NECESSARY UNDERNEATH PIPES. PERFORATED PIPE SHALL BE WRAPPED WITH 1/4" GALVANIZED HARDWARE CLOTH.
POURED IN PLACE CONCRETE (IF REQUIRED)	MSHA MX NO. 3; F _c = 3500 PSI @ 28 DAYS, NORMAL WEIGHT, AIR-ENTRAINED, REINFORCING TO MEET ASTM-615-60	N/A	ON-SITE TESTING OF POURED-IN-PLACE CONCRETE REQUIRED: 28 DAY STRENGTH AND SLUMP TEST; ALL CONCRETE DESIGN CAST-IN-PLACE OR PRE-CAST) NOT USING PREVIOUSLY APPROVED STATE OR LOCAL STANDARDS REQUIRES DESIGN DRAWINGS SEALED AND APPROVED BY A PROFESSIONAL STRUCTURAL ENGINEER LICENSED IN THE STATE OF MARYLAND; DESIGN TO INCLUDE MEETING ACI CODE 350.1R/89; VERTICAL LOADING (H-10 OR H-20); ALLOWABLE HORIZONTAL LOADING (BASED ON SOIL PRESSURES); AND ANALYSIS OF POTENTIAL CRACKING.
SAND	AASHTO M-6 OR ASTM-C-33	0.02" TO 0.04"	SAND SUBSTITUTIONS SUCH AS DIABASE AND GRAYSTONE (AASHTO) #10 ARE NOT ACCEPTABLE. NO CALCIUM CARBONATED OR DOLOMITIC SAND SUBSTITUTIONS ARE ACCEPTABLE. NO "ROCK DUST" CAN BE USED FOR SAND.

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

- THE MONITORING WELLS AND STRUCTURES SHALL BE INSPECTED ON A QUARTERLY BASIS AND AFTER EVERY LARGE STORM EVENT.
- WATER LEVELS AND SEDIMENT BUILD UP IN THE MONITORING WELLS SHALL BE RECORDED OVER A PERIOD OF SEVERAL DAYS TO INSURE PROPER DRAINAGE.
- A LOG BOOK SHALL BE MAINTAINED TO DETERMINE THE RATE AT WHICH THE FACILITY DRAINS.
- WHEN THE FACILITY BECOMES CLOGGED THAT IT DOES NOT DRAIN DOWN WITHIN THE 72 HOURS TIME PERIOD, CORRECTIVE ACTION SHALL BE TAKEN.
- THE MAINTENANCE LOG BOOK SHALL BE AVAILABLE TO HOWARD COUNTY FOR INSPECTION TO INSURE COMPLIANCE WITH OPERATION AND MAINTENANCE CRITERIA.
- ONCE THE PERFORMANCE CHARACTERISTICS OF THE INFILTRATION FACILITY HAVE BEEN VERIFIED, THE MONITORING SCHEDULE CAN BE REDUCED AN ANNUAL BASIS UNLESS THE PERFORMANCE DATA INDICATES THAT A MORE FREQUENT SCHEDULE IS REQUIRED.

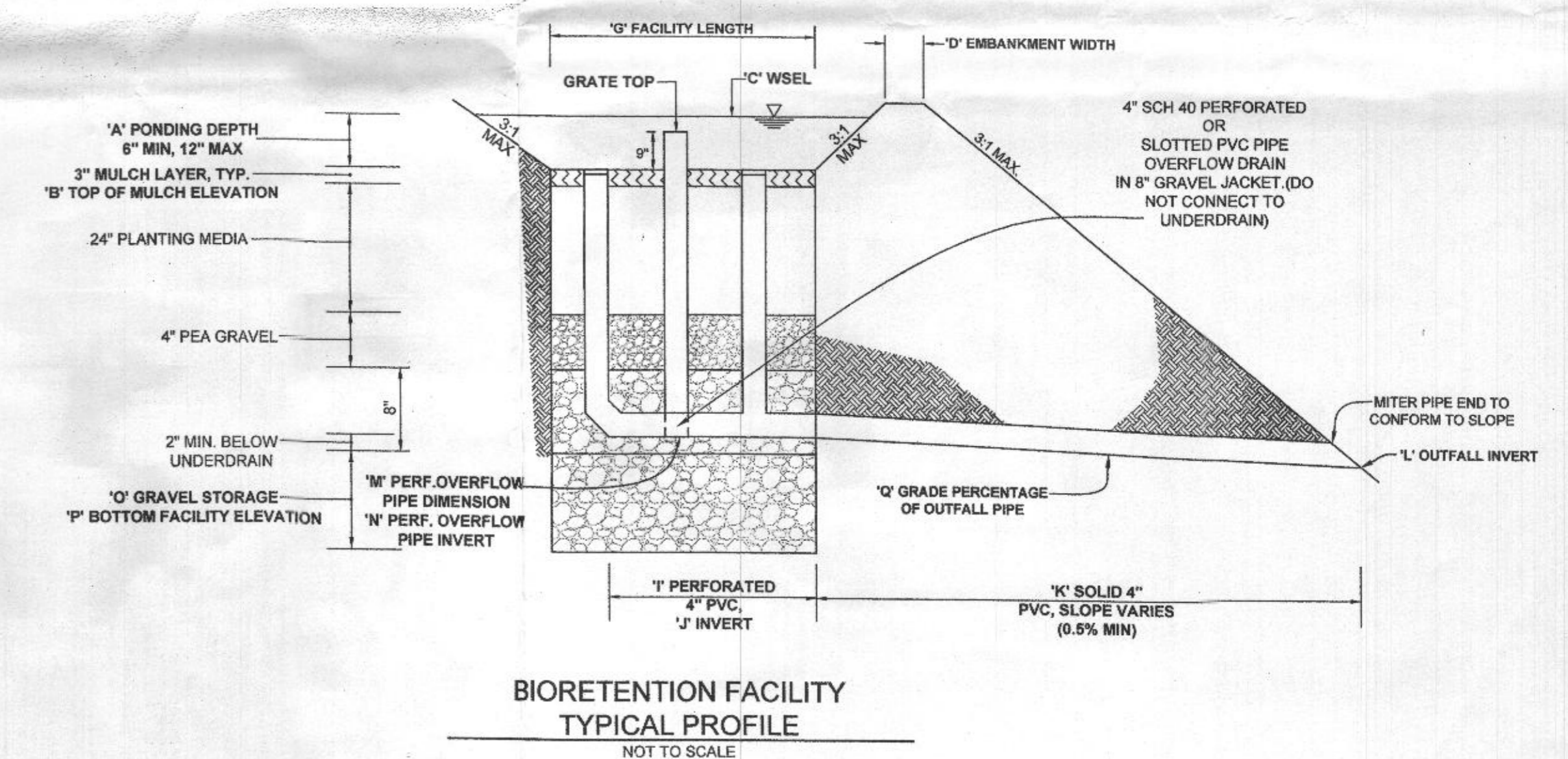
OPERATION AND MAINTENANCE SCHEDULE FOR PRIVATELY OWNED AND MAINTAINED MICRO-BIORETENTION FACILITIES (M-6)

- 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-1 AND 2.
- THE OWNER SHALL PERFORM A PLAN INSPECTION IN THE SPRING AND IN THE FALL OF EACH YEAR. BEYOND 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 THE MULCH LAYER EACH SPRING. THE MULCH SHALL BE REPLACED 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 ASSESSED BASIS, WITH A MINIMUM OF ONCE PER MONTH AND AFTER EACH HEAVY STORM.



BIORETENTION FACILITY TYPICAL SECTION
NOT TO SCALE

NOTES:
- FOR ADDITIONAL INFORMATION, SEE THE 2000 MARYLAND STORMWATER DESIGN MANUAL, VOLUMES I AND II.
- SEE CHART, THIS SHEET, FOR ELEVATIONS AND DISTANCES



BIORETENTION FACILITY TYPICAL PROFILE
NOT TO SCALE

OWNER
WILLIAMSBURG GROUP
5485 HARRIS FARM ROAD, SUITE 200
COLUMBIA, MARYLAND 21044
410.997.8900

DEVELOPER
DOSA CLARKSVILLE LLC
5900 WHALE BOAT DRIVE UNIT #206
CLARKSVILLE MD, 21029
301.370.8866

STORMWATER MANAGEMENT PLAN, NOTES, AND DETAILS THE WOODLANDS
5640 DOSA COURT, LOT 6

TAX MAP 28 DR 23
5TH ELECTION DISTRICT

PARCEL 15
HOWARD COUNTY, MARYLAND

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

Signature: [Signature]
DATE: 6/16/24

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: [Signature]
DATE: 6/10/24

DEVELOPER'S CERTIFICATE

"I/WE 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: [Signature]
DATE: 6/10/24

SILL ENGINEERING, LLC
16005 Frederick Road, 2nd Floor
Woodbine, Maryland 21797
Phone: 443.325.5076
Fax: 410.696.2022
Email: info@sillengineering.com
Civil Engineering for Land Development

DESIGN BY: PS
DRAWN BY: S25
CHECKED BY: PS
SCALE: AS SHOWN
DATE: JUNE 10, 2024
PROJECT #: 14-029
SHEET #: 3 OF 3

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. 30225, EXPIRATION DATE: JUNE 26, 2025.

NO.	DESCRIPTION	DATE