

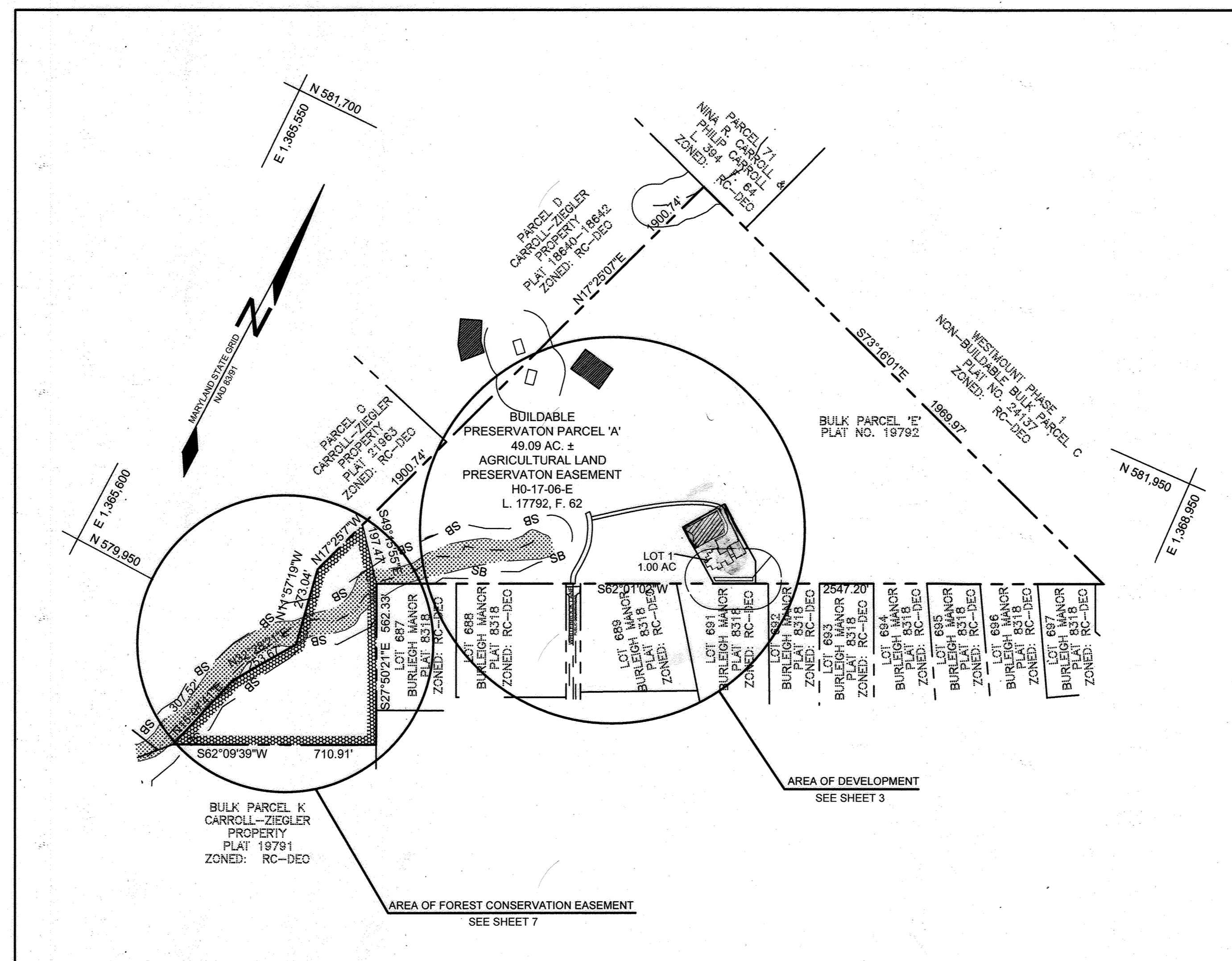
GENERAL NOTES

- 1. SUBJECT PROPERTY ZONED RR-DEO PER 10/09/2013 COMPREHENSIVE ZONING PLAN.
2. TOTAL AREA OF PROPERTY = 50.000 AC ±
3. PROPERTY ADDRESS: 3881 WHITEBROOK LANE.
4. PREVIOUS HOWARD COUNTY FILE NUMBERS: SP-06-019, ECP-20-039, F-07-185, F-06-228, F-07-022, F-88-207, F-08-109 PLAT NO. 19792
5. THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE (5) WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS...

PAVING SECTIONS table with columns for SECTION NO., ROAD AND STREET CLASSIFICATION, CALIFORNIA BEARING RATIO (CBR), PAVEMENT MATERIAL (INCHES), MIN HMA WITH GAB, HMA WITH CONSTANT GAB, and various surface types like HMA SUPERPAVE FINAL SURFACE, INTERMEDIATE SURFACE, BASE, and GRADED AGGREGATE BASE (GAB).

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

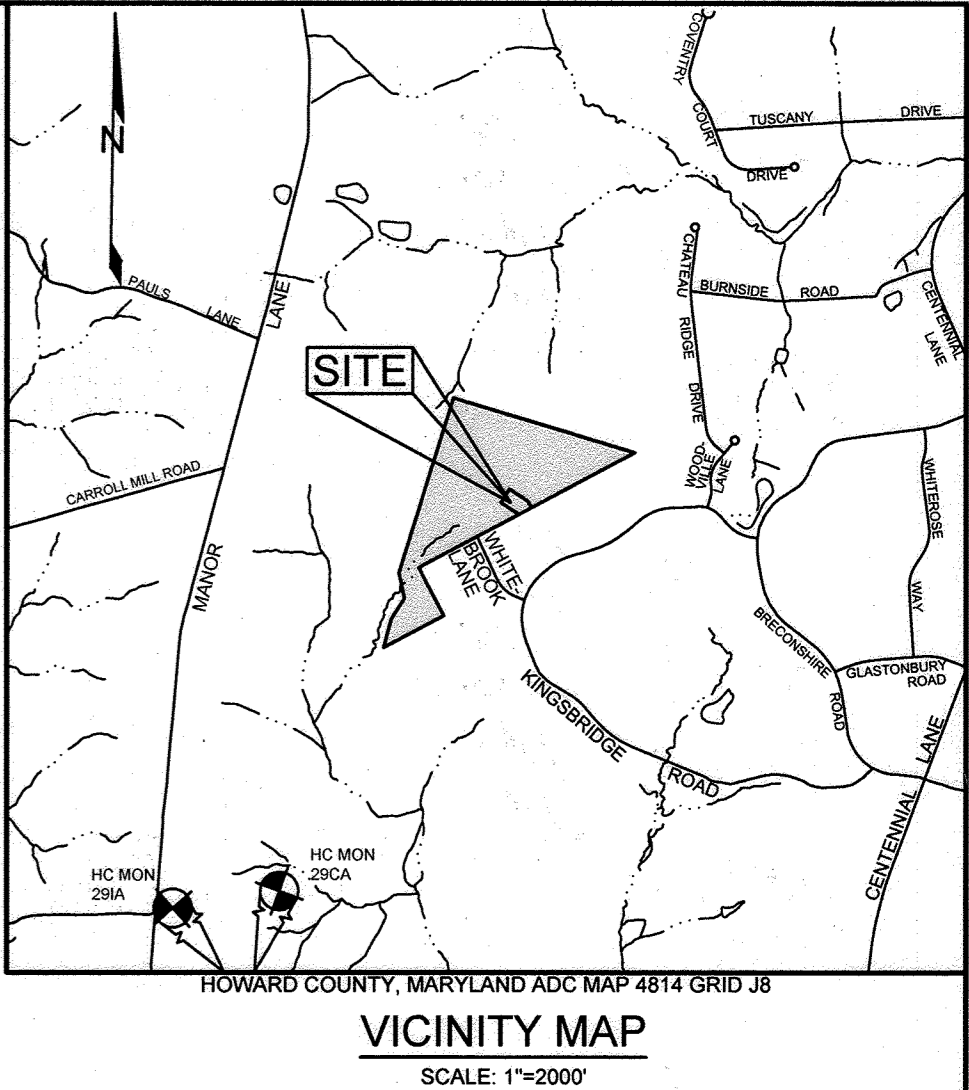
SUPPLEMENTAL INFORMATION PLAN
ZIEGLER PROPERTY
LOT 1 AND BUILDABLE PRESERVATION PARCEL A
A RESUBDIVISION OF NON-BUILDABLE BULK PARCEL E



LOCATION MAP SCALE: 1"=300'

STORMWATER MANAGEMENT SUMMARY TABLE with columns for LOT, Pp, ESov, RECHARGE, SWM PRACTICES, and sub-columns for REQUIRED and PROVIDED values for various practices.

LEGEND table with symbols and descriptions for existing and proposed contours, spot elevations, stream buffers, wetlands, and easements.



BENCHMARKS table with columns for NUMBER, NORTHING, EASTING, ELEVATION, and DESCRIPTION.

ADDRESS CHART table with columns for LOT/PARCEL NO. and ADDRESS.

SITE ANALYSIS DATA SHEET table with columns for ENVIRONMENTAL AREA and SIZE OR USE, listing metrics like total project area, wetlands, and floodplains.

NOTES: 1. NO ENVIRONMENTALLY SENSITIVE AREAS ARE LOCATED WITHIN THE AREA OF DEVELOPMENT.

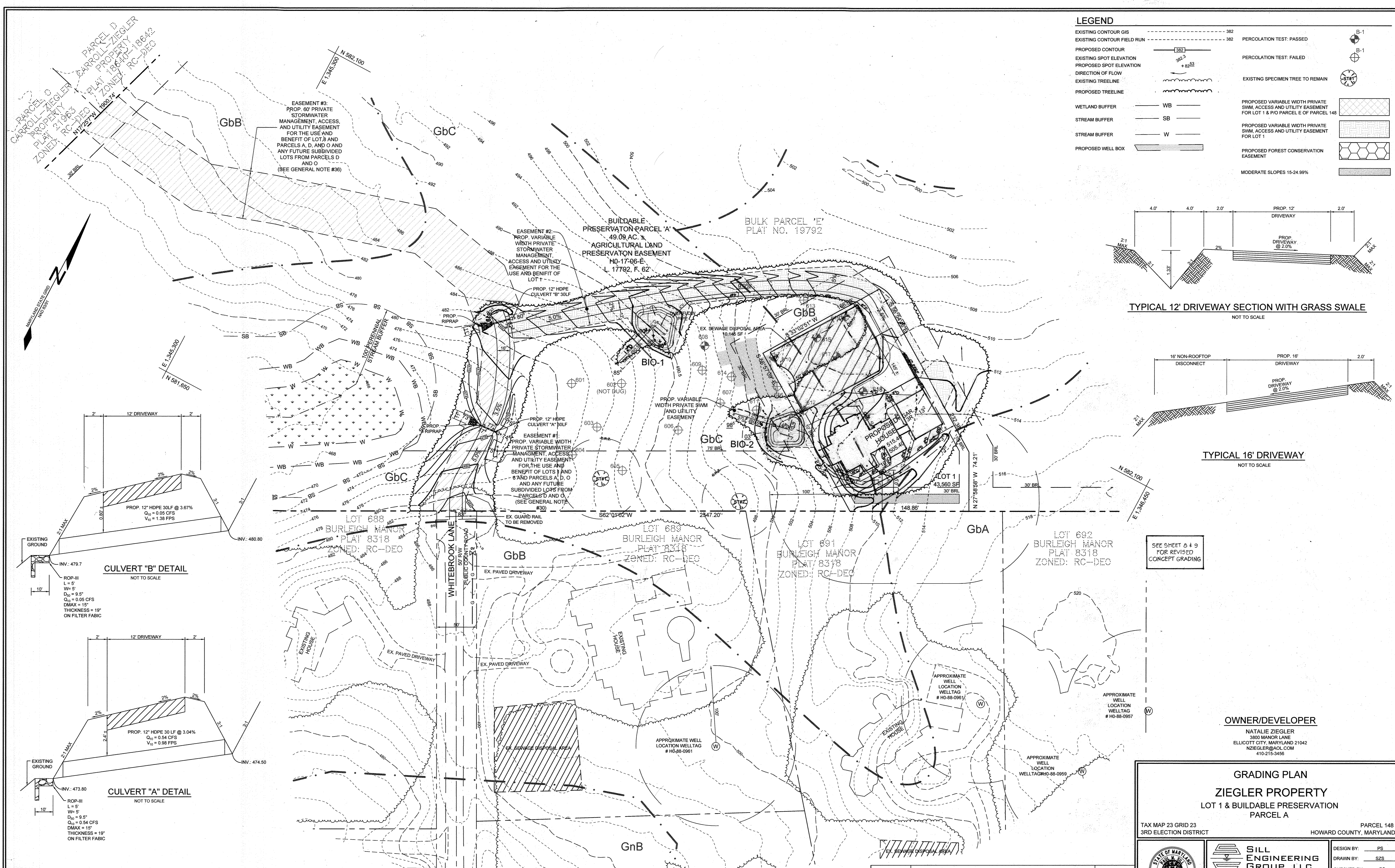
SHEET INDEX table with columns for SHEET NO. and DESCRIPTION, listing various plan sheets like Grading, Stormwater, and Landscaping.

OWNER/DEVELOPER

NATALIE ZIEGLER
3881 MANOR LANE
ELLICOTT CITY, MARYLAND 21042
NZIEGLER@AOL.COM
410-215-3456

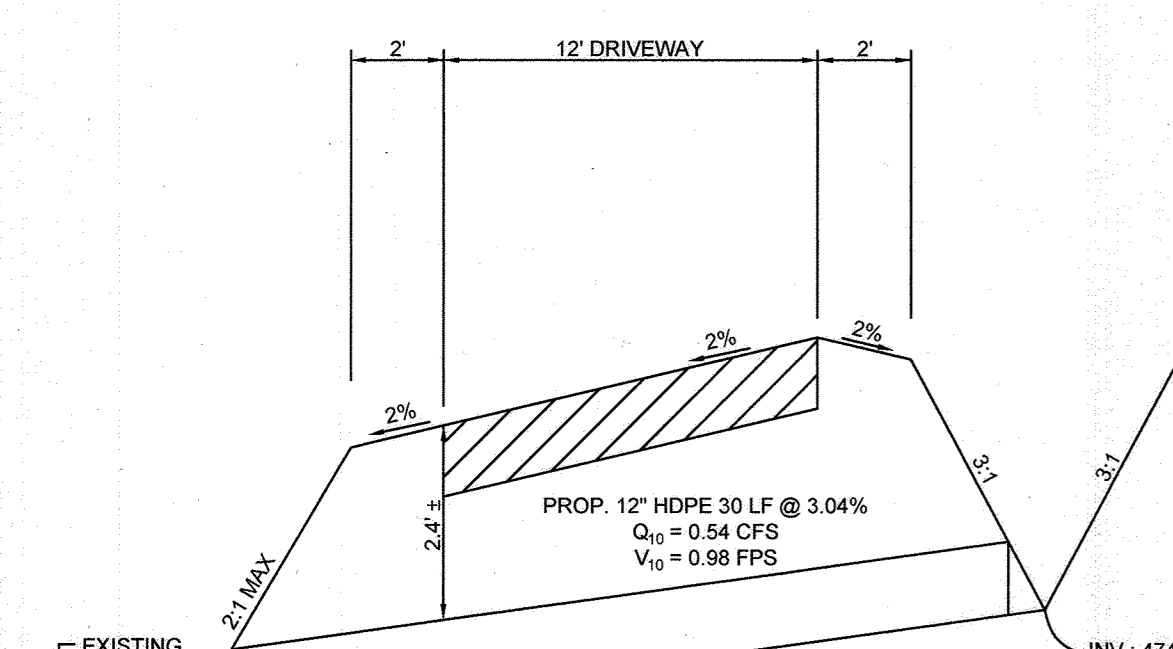
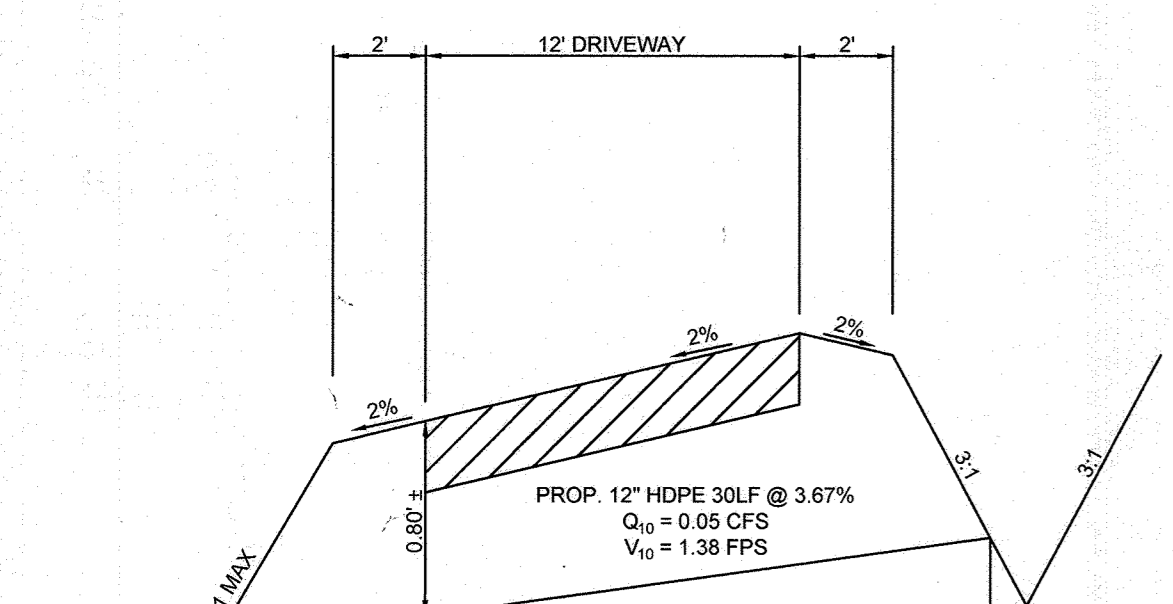
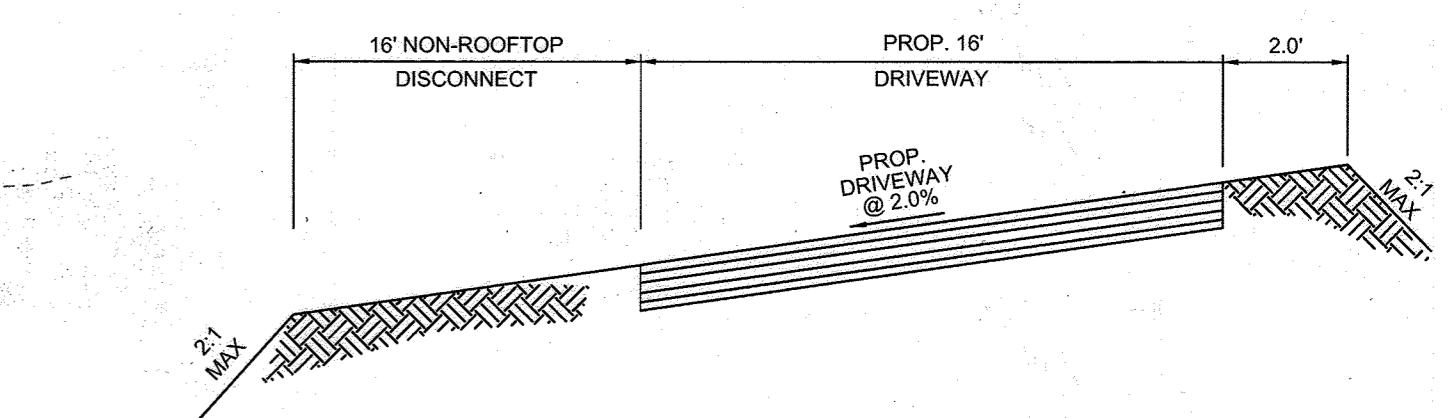
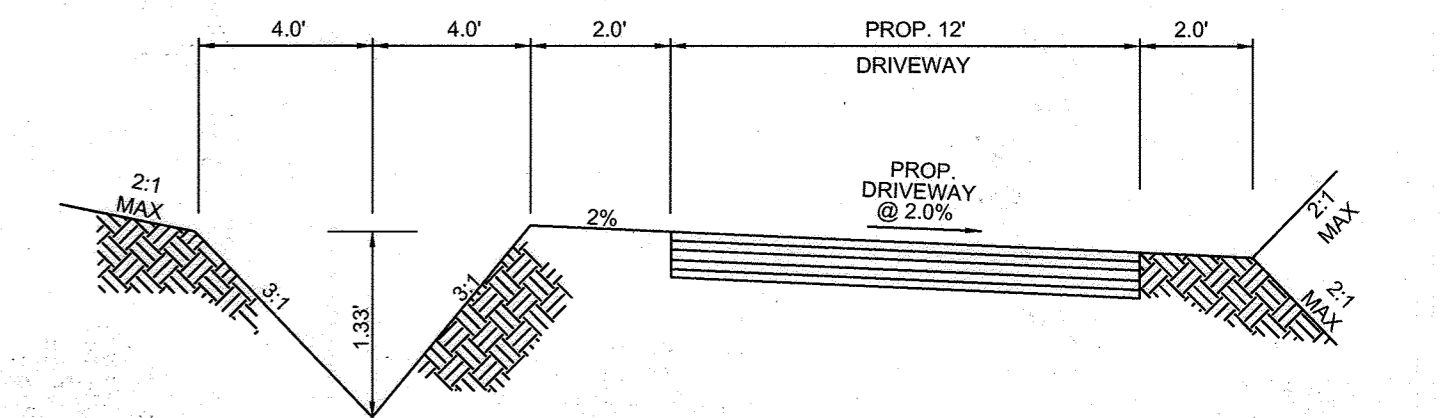
SUPPLEMENTAL INFORMATION PLAN
ZIEGLER PROPERTY
LOT 1 & BUILDABLE PRESERVATION PARCEL A
Includes project information, professional seals, and revision table.

Revisions table with columns for No., DESCRIPTION, and DATE.

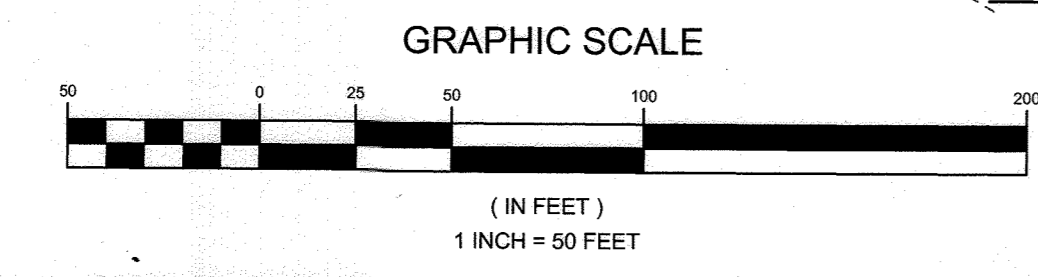


LEGEND

- EXISTING CONTOUR GIS
- EXISTING CONTOUR FIELD RUN
- PROPOSED CONTOUR
- EXISTING SPOT ELEVATION
- PROPOSED SPOT ELEVATION
- DIRECTION OF FLOW
- EXISTING TREELINE
- PROPOSED TREELINE
- WETLAND BUFFER
- STREAM BUFFER
- STREAM BUFFER
- PROPOSED WELL BOX
- PERCOLATION TEST: PASSED
- PERCOLATION TEST: FAILED
- EXISTING SPECIMEN TREE TO REMAIN
- PROPOSED VARIABLE WIDTH PRIVATE SWM, ACCESS AND UTILITY EASEMENT FOR LOT 1 & P/O PARCEL E OF PARCEL 148
- PROPOSED VARIABLE WIDTH PRIVATE SWM, ACCESS AND UTILITY EASEMENT FOR LOT 1
- PROPOSED FOREST CONSERVATION EASEMENT
- MODERATE SLOPES 15-24.99%



APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
5/20/2022
CHIEF, DEVELOPMENT ENGINEERING DIVISION
DATE: 5/25/2022
CHIEF, DIVISION OF LAND DEVELOPMENT
DATE:



PLAN VIEW
SCALE: 1"=50'

No.	DESCRIPTION	DATE

SEE SHEET # 9 FOR REVISED CONCEPT GRADING

OWNER/DEVELOPER

NATALIE ZIEGLER
3800 MANOR LANE
ELLCOTT CITY, MARYLAND 21042
NZIEGLER@AOL.COM
410-215-3456

GRADING PLAN
ZIEGLER PROPERTY
LOT 1 & BUILDABLE PRESERVATION PARCEL A

TAX MAP 23 GRID 23
3RD ELECTION DISTRICT

PARCEL 148
HOWARD COUNTY, MARYLAND

STATE OF MARYLAND
NATALIE ZIEGLER
LICENSE NO. 20205
EXPIRES 06/30/2025

SILL ENGINEERING GROUP, 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

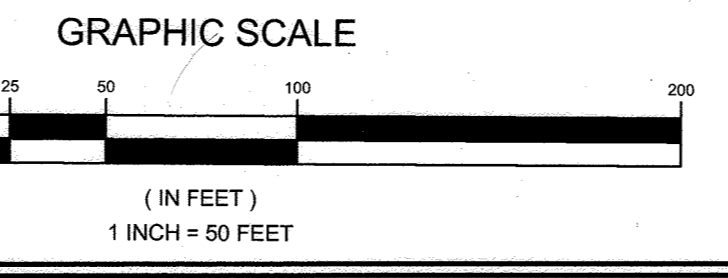
DESIGN BY: PS
DRAWN BY: SZS
CHECKED BY: PS
SCALE: AS SHOWN
DATE: MARCH 14, 2022
PROJECT #: 18-037
SHEET # 2 of 3

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. 20205, EXPIRATION DATE JUNE 20, 2025.



LEGEND	
EXISTING CONTOUR GIS	---
EXISTING CONTOUR FIELD RUN	---
PROPOSED CONTOUR	---
EXISTING SPOT ELEVATION	+
PROPOSED SPOT ELEVATION	+
DIRECTION OF FLOW	→
EXISTING TREELINE	---
PROPOSED TREELINE	---
WETLAND BUFFER	WB
STREAM BUFFER	SB
STREAM BUFFER	W
PROPOSED WELL BOX	---
TREE PROTECTION FENCE	TP
PERCOLATION TEST: PASSED	---
PERCOLATION TEST: FAILED	---
EXISTING SPECIMEN TREE TO REMAIN	---
PROPOSED VARIABLE WIDTH PRIVATE SWM, ACCESS AND UTILITY EASEMENT FOR LOT 1 & PIO PARCEL E OF PARCEL 148	---
PROPOSED VARIABLE WIDTH PRIVATE SWM, ACCESS AND UTILITY EASEMENT FOR LOT 1	---
PROPOSED FOREST CONSERVATION EASEMENT	---
MODERATE SLOPES 15-24.99%	---

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
 5/20/2022
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
 DATE: 5/25/2022
 CHIEF, DIVISION OF LAND DEVELOPMENT
 DATE:

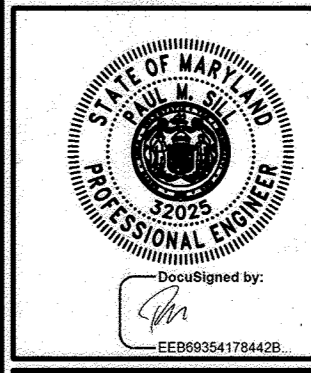


PLAN VIEW
 SCALE: 1"=50'

No.	DESCRIPTION	DATE

OWNER/DEVELOPER
 NATALIE ZIEGLER
 3800 MANOR LANE
 ELLICOTT CITY, MARYLAND 21042
 NZIEGLER@AOL.COM
 410-215-3456

SEDIMENT & EROSION CONTROL PLAN
ZIEGLER PROPERTY
LOT 1 & BUILDABLE PRESERVATION
PARCEL A
 TAX MAP 23 GRID 23
 3RD ELECTION DISTRICT
 PARCEL 148
 HOWARD COUNTY, MARYLAND



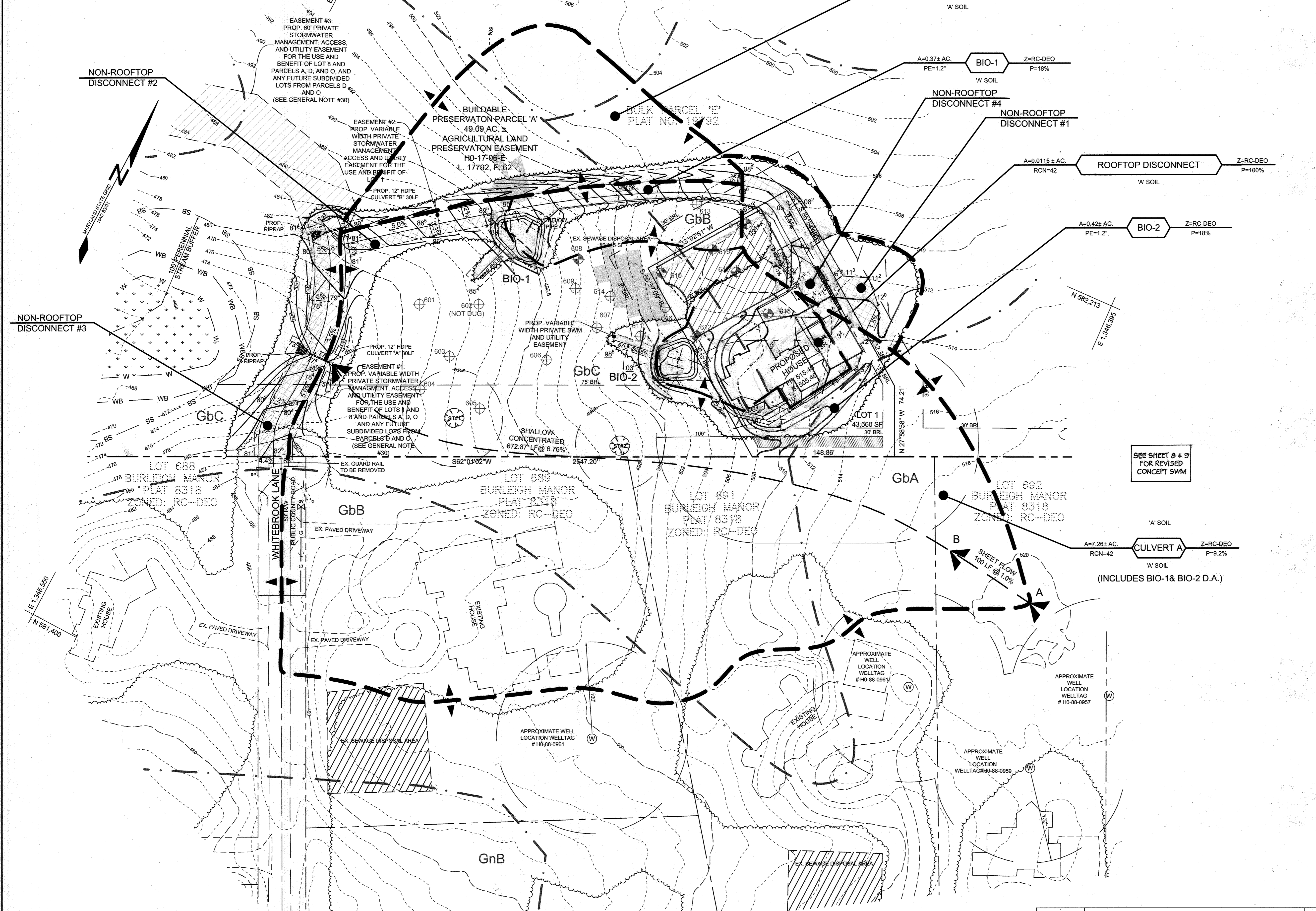
SILL ENGINEERING GROUP, LLC
 16005 Frederick Road, 2nd Floor
 Woodbine, Maryland 21797
 Phone: 443.325.5076
 Fax: 410.696.2022
 Email: info@sillengineering.com
 Civil Engineering for Land Development

DESIGN BY: PS
 DRAWN BY: S2S
 CHECKED BY: PS
 SCALE: AS SHOWN
 DATE: MARCH 14, 2022
 PROJECT #: 18-037
 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. 32025, EXPIRATION DATE JUNE 30, 2025.

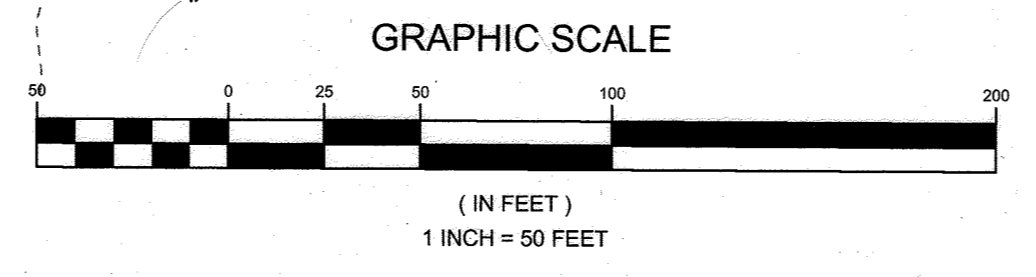
SOILS LEGEND			
SYMBOL	NAME / DESCRIPTION	GROUP	'K' FACTOR
GbA	GLADSTONE LOAM, 0 TO 3 PERCENT SLOPES	A	0.28
GbB	GLADSTONE LOAM, 3 TO 8 PERCENT SLOPES	A	0.28
GbC	GLADSTONE LOAM, 8 TO 15 PERCENT SLOPES	A	0.28
GbD	GLENVILLE-SALE SILT LOAM, 0 TO 5 PERCENT SLOPES	C	0.43

NOTES:
 1) SOIL INFORMATION HAS BEEN TAKEN FROM THE UNITED STATES DEPARTMENT OF AGRICULTURE, NATURAL RESOURCES CONSERVATION SERVICE, WEBB SOIL SURVEY.
 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.



LEGEND	
EXISTING CONTOUR GIS	--- 382
EXISTING CONTOUR FIELD RUN	--- 382
PROPOSED CONTOUR	--- 382
EXISTING SPOT ELEVATION	+82.83
PROPOSED SPOT ELEVATION	+82.83
DIRECTION OF FLOW	→
EXISTING TREELINE	~
PROPOSED TREELINE	~
PROPOSED DRAINAGE DIVIDE	▲
SOIL BOUNDARY	- · - · -
ROOFTOP DISCONNECTS	←
NON-ROOFTOP DISCONNECTS RECEIVING AREA	XXXXXX
TIME OF CONCENTRATION	←
MODERATE SLOPES 15-24.99%	▨

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
 5/20/2022
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
 DATE: 5/25/2022
 CHIEF, DIVISION OF LAND DEVELOPMENT
 DATE:



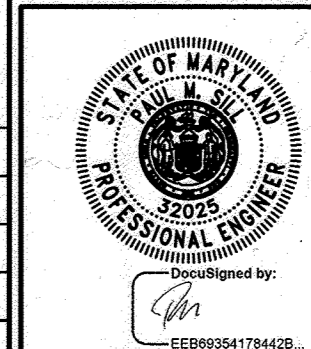
No.	DESCRIPTION	DATE

OWNER/DEVELOPER

NATALIE ZIEGLER
 3800 MANOR LANE
 ELLICOTT CITY, MARYLAND 21042
 NZIEGLER@AOL.COM
 410-215-3456

STORMWATER MANAGEMENT & CULVERT DRAINAGE AREA MAP
ZIEGLER PROPERTY
 LOT 1 & BUILDABLE PRESERVATION PARCEL A

TAX MAP 23 GRID 23 3RD ELECTION DISTRICT PARCEL 148 HOWARD COUNTY, MARYLAND



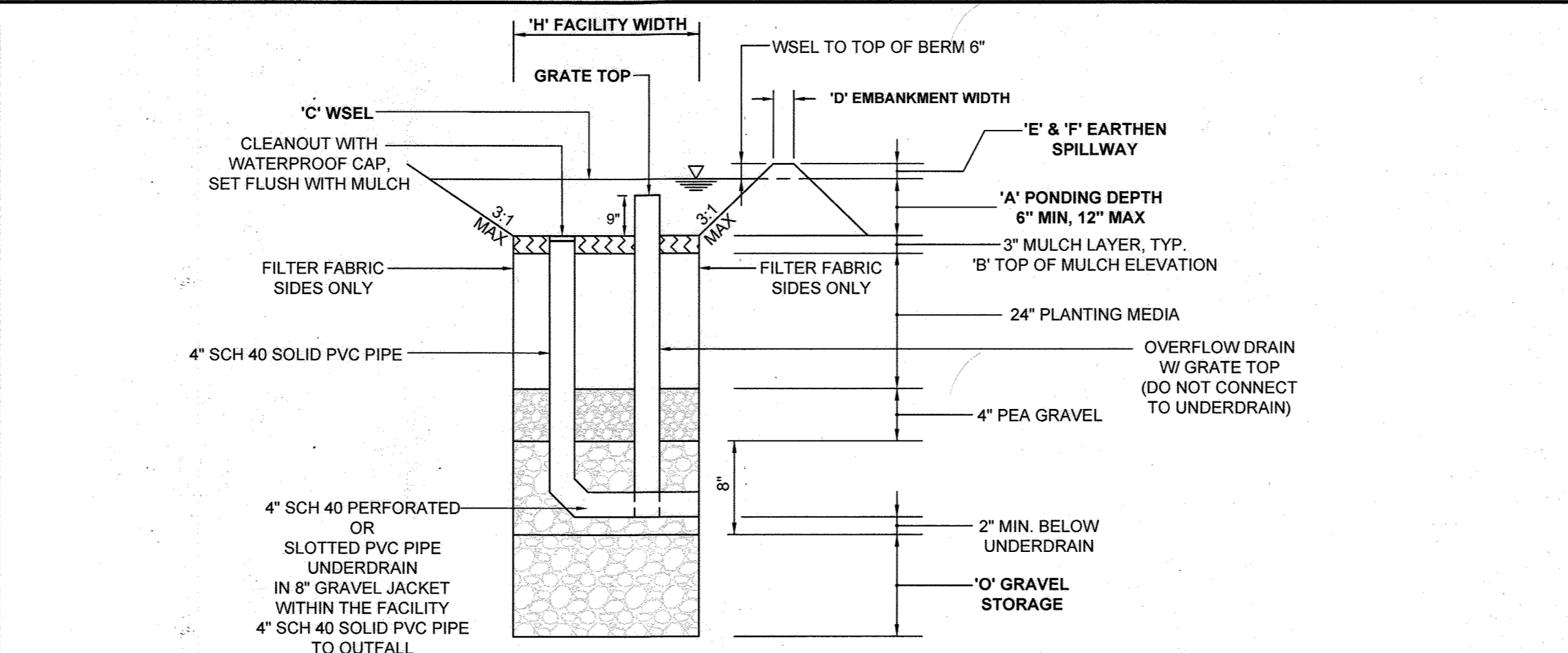
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 Civil Engineering for Land Development

DESIGN BY: PS
 DRAWN BY: SZS
 CHECKED BY: PS
 SCALE: AS SHOWN
 DATE: MARCH 14, 2022
 PROJECT #: 18-037
 SHEET #: 4 of 9

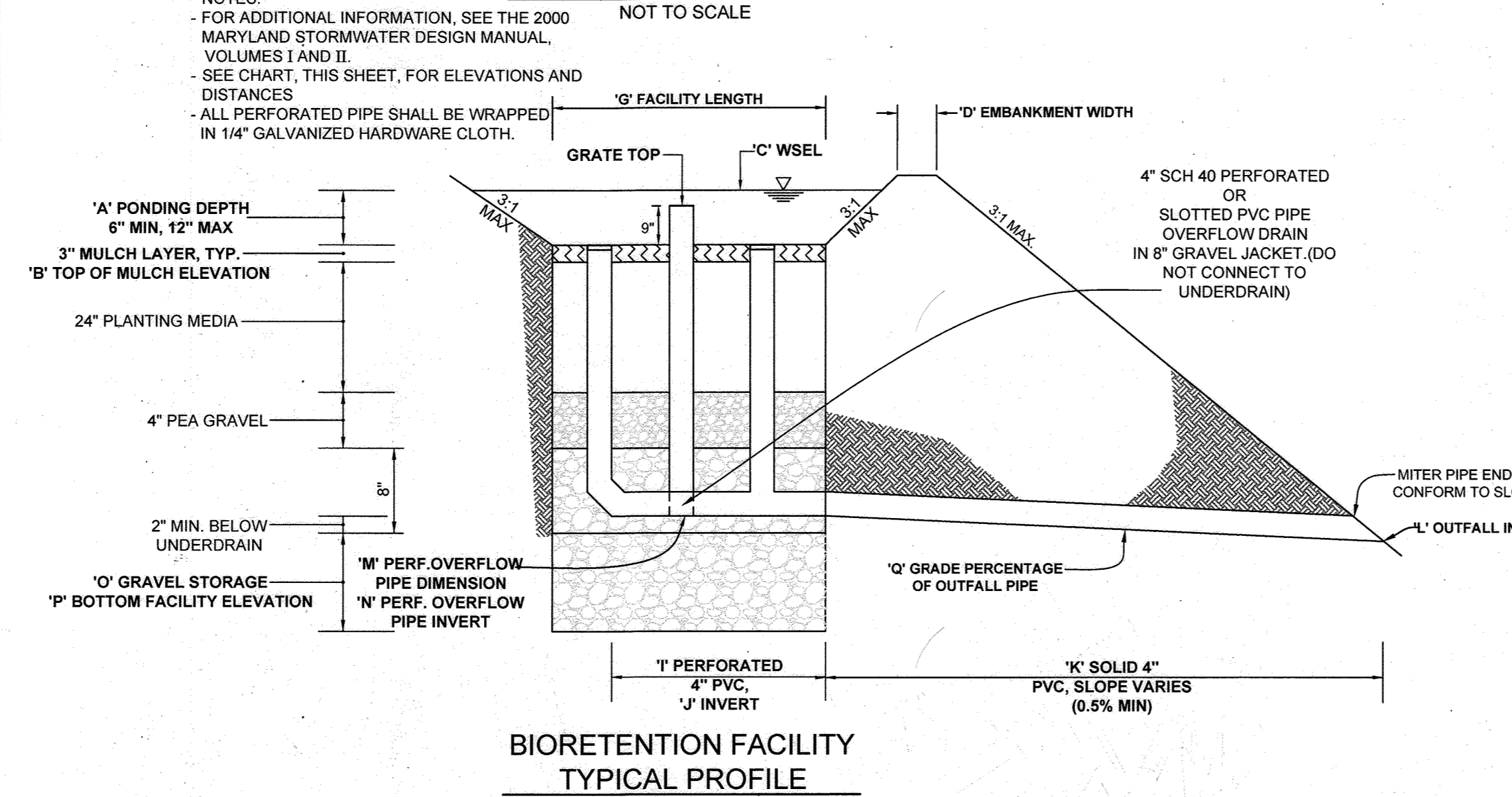
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MATERIALS SPECIFICATIONS FOR MICRO-BIORETENTION, RAIN GARDEN & LANDSCAPE INFILTRATION

PLANTINGS	SPECIFICATION	SIZE	NOTES
SEE PLANT LIST THIS SHEET	SEE PLANT LIST THIS SHEET	N/A	PLANTINGS ARE SITE-SPECIFIC. SEE PLANT LIST THIS SHEET
PLANTING SOIL (2'-4" TO 4' DEEP)	LOAMY SAND (60% - 65%) & COMPOST (35%-40%) OR SANDY LOAM (30%), COARSE SAND (30%) & COMPOST (40%)	N/A	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
SHREDDED HARDWOOD	SHREDDED HARDWOOD		AGED 6 MONTHS, MINIMUM. NO PINE OR WOOD CHIPS
PEA GRAVEL DIAPHRAGM	PEA GRAVEL: ASTM-D-448	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 758, 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 _o = 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 R/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.



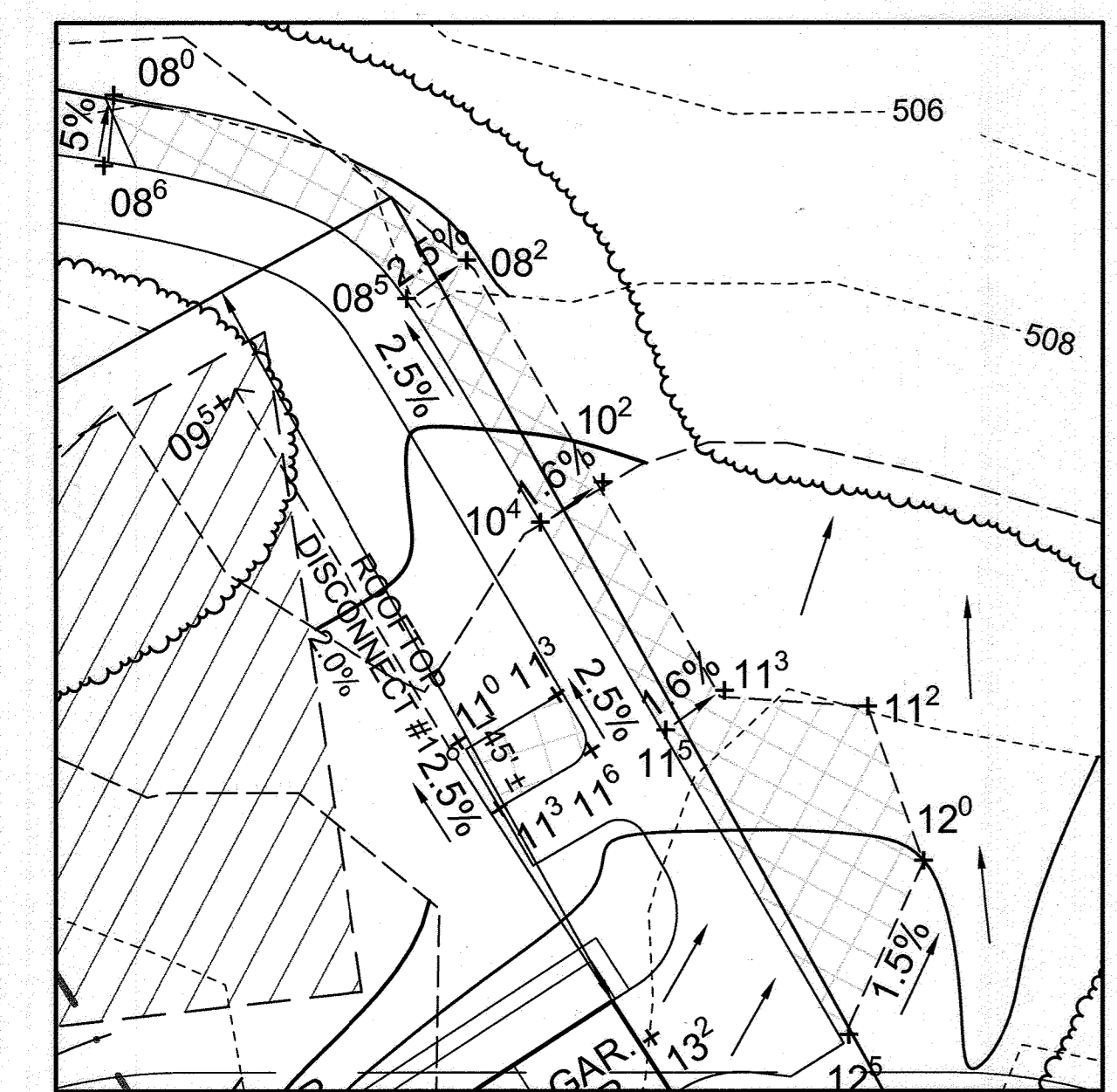
BIORETENTION FACILITY TYPICAL SECTION
NOT TO SCALE



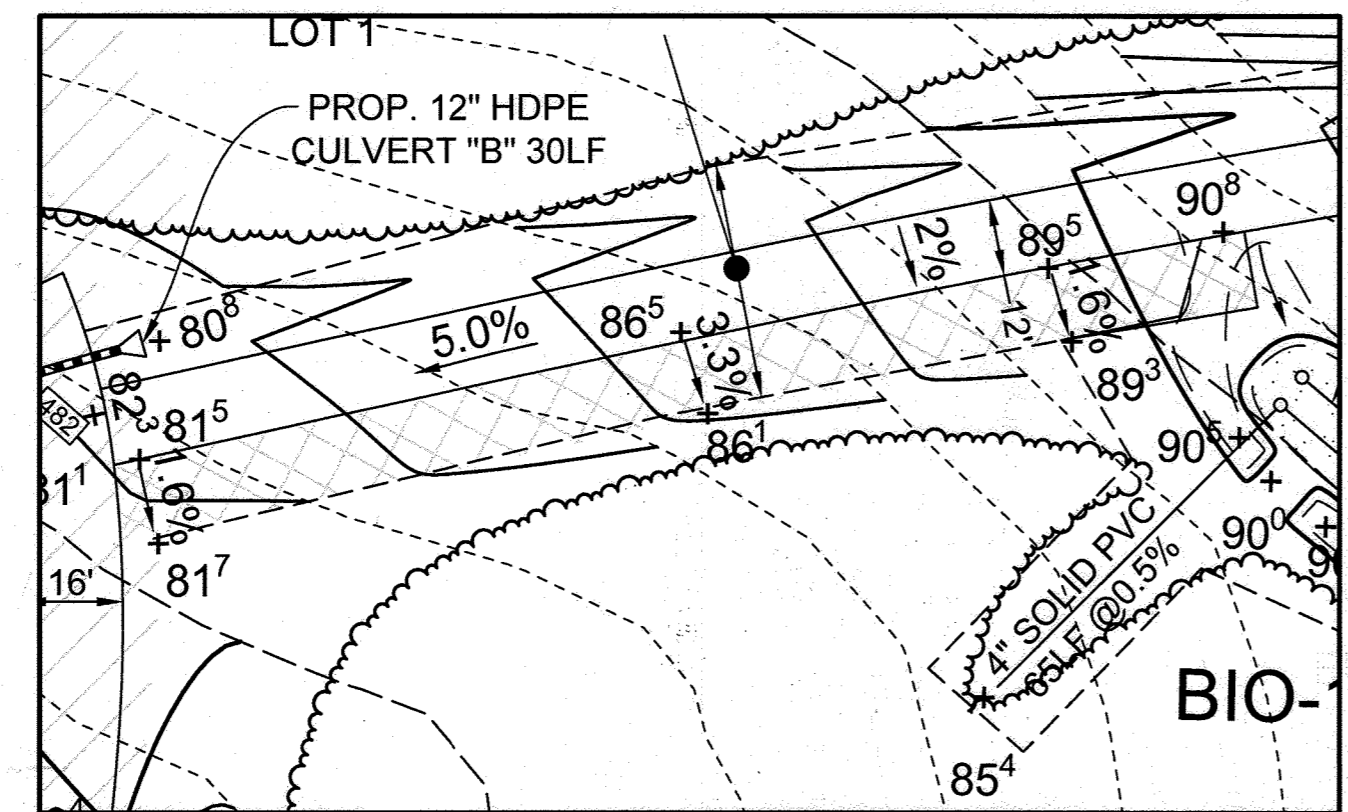
BIORETENTION FACILITY TYPICAL PROFILE
NOT TO SCALE

BIORETENTION ELEVATIONS AND DIMENSIONS

DESCRIPTION	BIO 1	BIO 2
'A' PONDING DEPTH	1.0'	1.0'
'B' TOP OF MULCH	489.0	502.50
'C' WSEL	490.0	503.50
'D' EMBANKMENT WIDTH	4'	4'
'E' SPILLWAY WIDTH	8'	14'
'F' SPILLWAY LENGTH	7'	7'
'G' FACILITY LENGTH	31'	35'
'H' FACILITY WIDTH	16'	18.50'
'I' PERF. UNDERDRAIN PIPE DIMENSION	27'	14'
'J' UNDERDRAIN PIPE INVERT	485.92	499.42
'K' SOLID UNDERDRAIN DIMENSION	65.0'	57'
'L' OUTFALL INVERT	485.0	498.50
'M' PERF. OVERFLOW PIPE DIMENSION	14'	14.5'
'N' OVERFLOW PIPE INVERT	485.92	499.42
'O' GRAVEL STORAGE DEPTH	2.5'	2.5'
'P' BOTTOM ELEVATION OF FACILITY	482.00	495.50
'Q' GRADE % OF OUTFALL PIPE	0.5%	0.5%



ROOFTOP DISCONNECT #1 & NON-ROOFTOP DISCONNECT #1
SCALE: 1"=30'



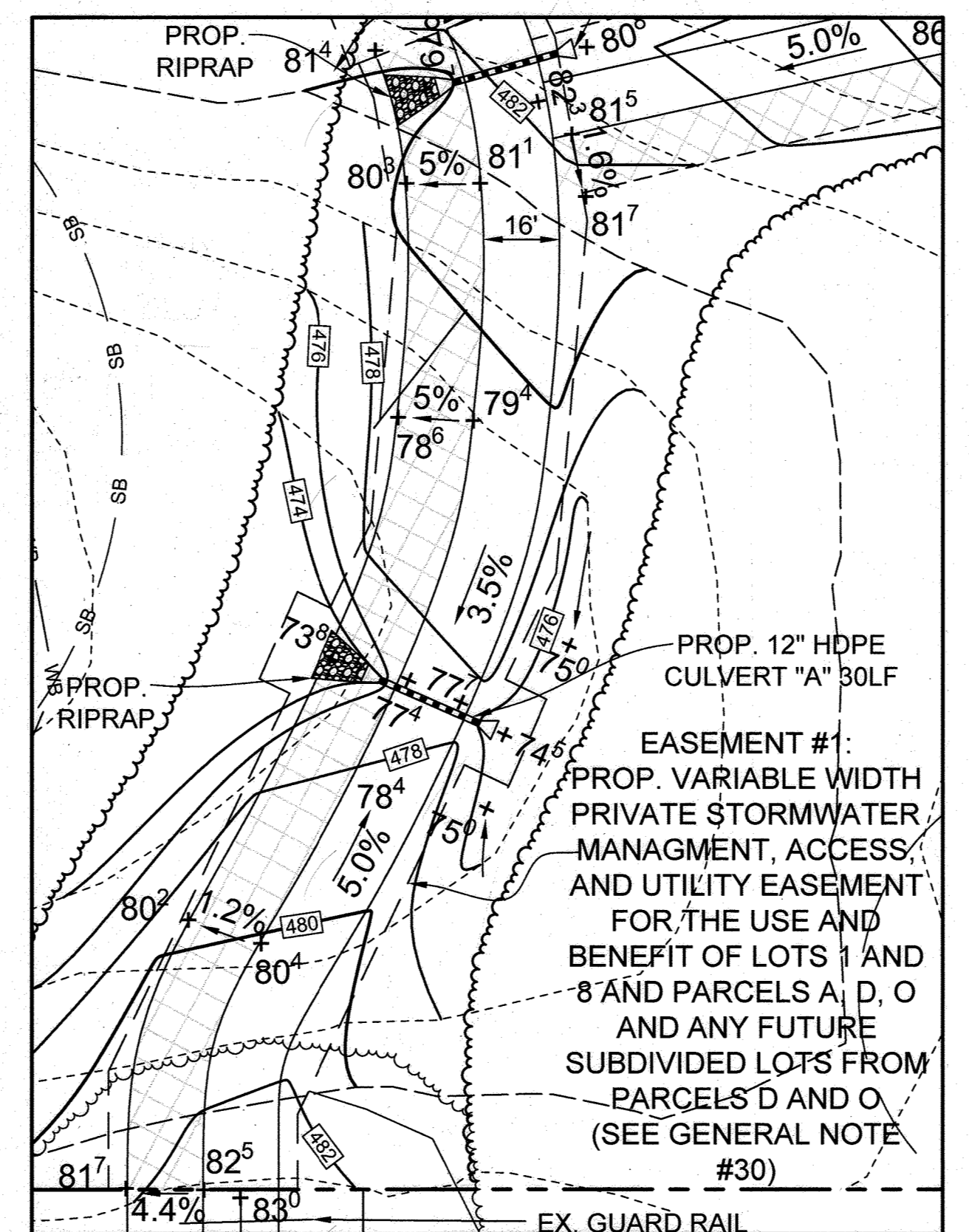
NON-ROOFTOP DISCONNECT #2
SCALE: 1"=30'

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

1. 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.
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.
3. THE OWNER SHALL INSPECT THE MULCH 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.
4. THE OWNER SHALL CORRECT SOIL EROSION ON AN AS NEEDED BASIS, WITH A MINIMUM OF ONCE PER MONTH AND AFTER EACH HEAVY STORM.

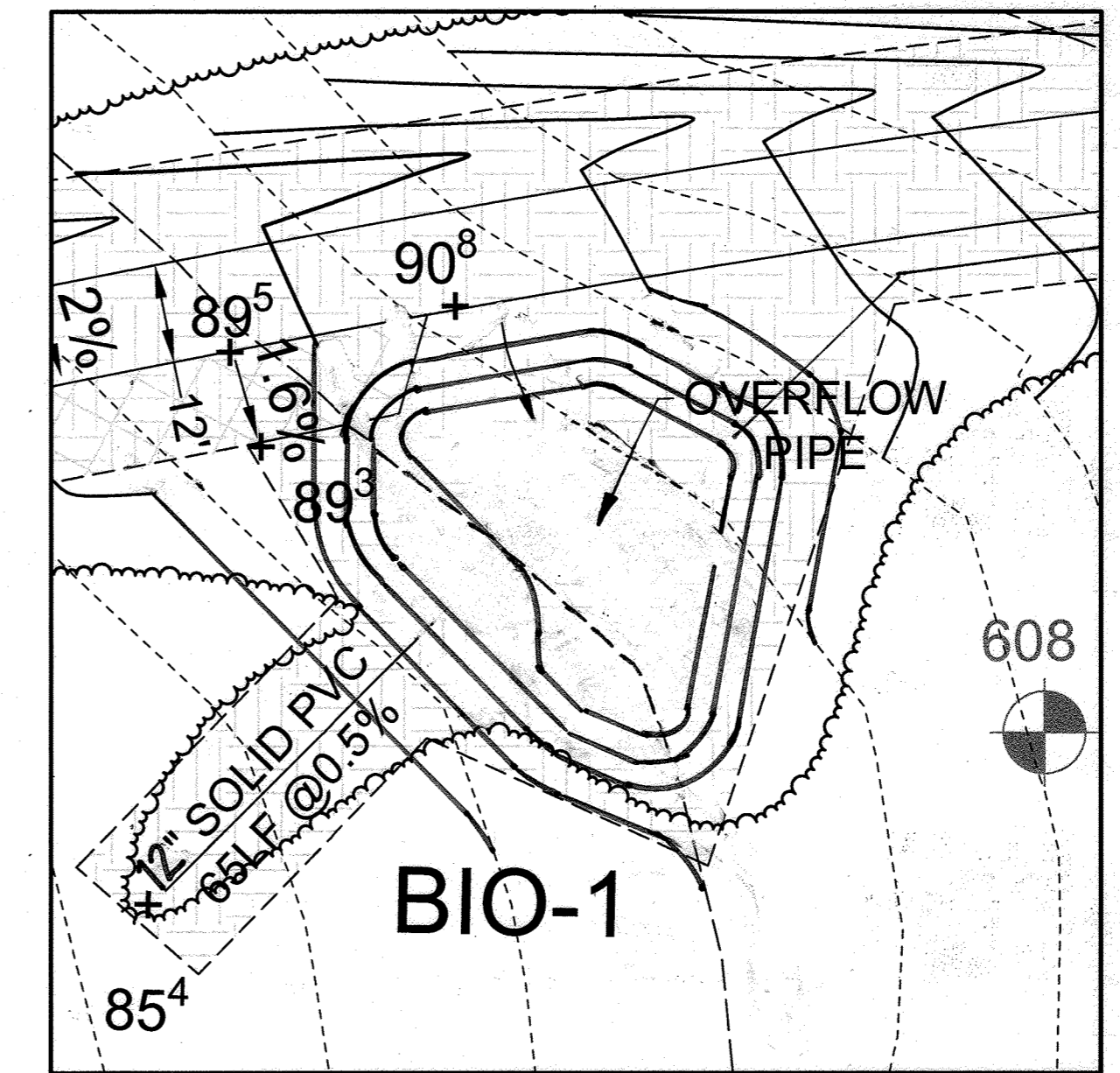
OPERATION AND MAINTENANCE SCHEDULE FOR ROOFTOP (N-1) AND NON-ROOFTOP (N-2) DISCONNECTS

MAINTENANCE OF AREAS RECEIVING DISCONNECTED RUNOFF IS GENERALLY NO DIFFERENT THAN THAT REQUIRED FOR THE OTHER LAWN OR LANDSCAPED AREAS. THE AREAS RECEIVING RUNOFF SHOULD BE PROTECTED FROM FUTURE COMPACTION (E.G. BY PLANTING TREES OR SHRUBS ALONG THE PERIMETER).

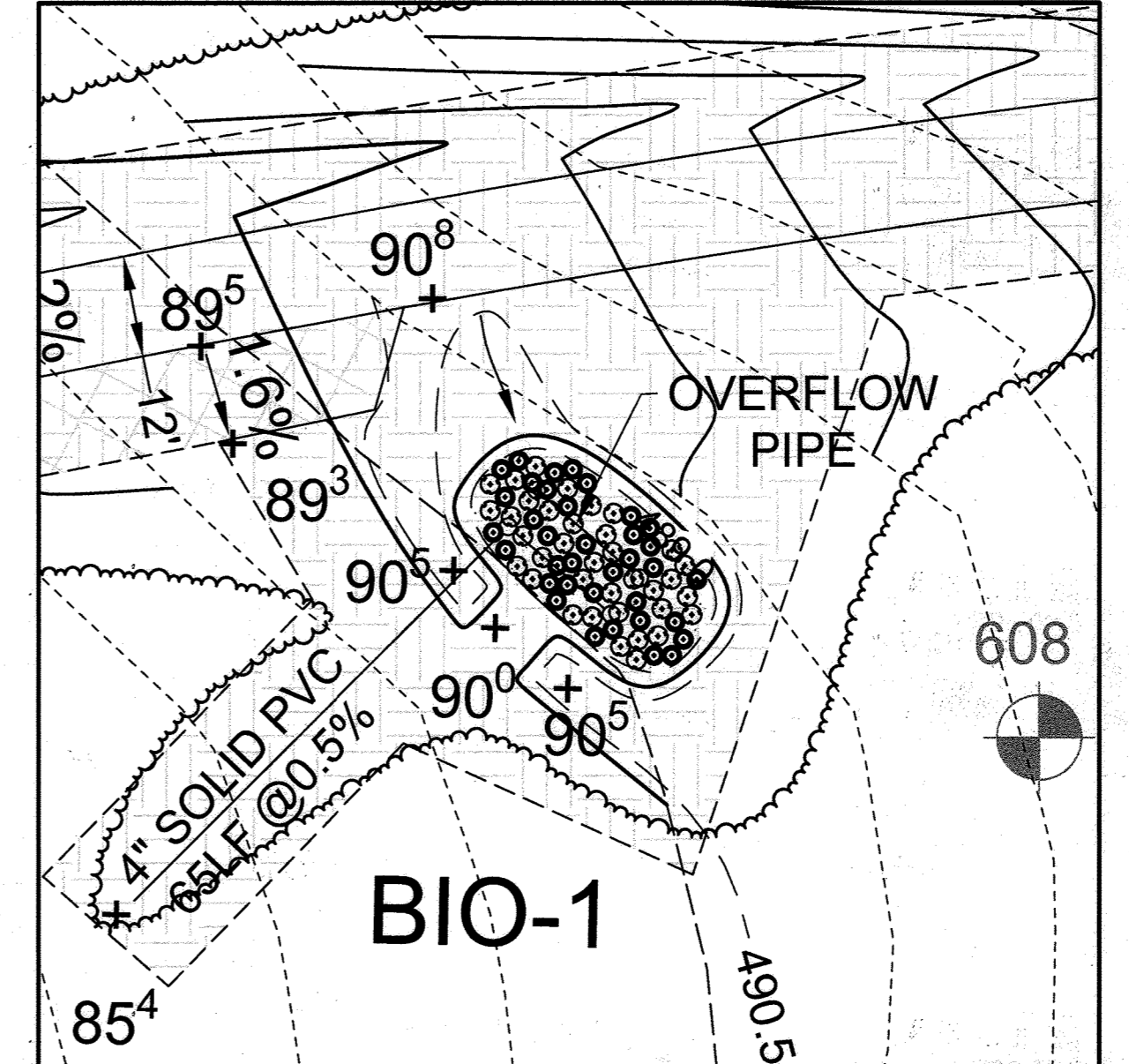


NON-ROOFTOP DISCONNECT #3
SCALE: 1"=30'

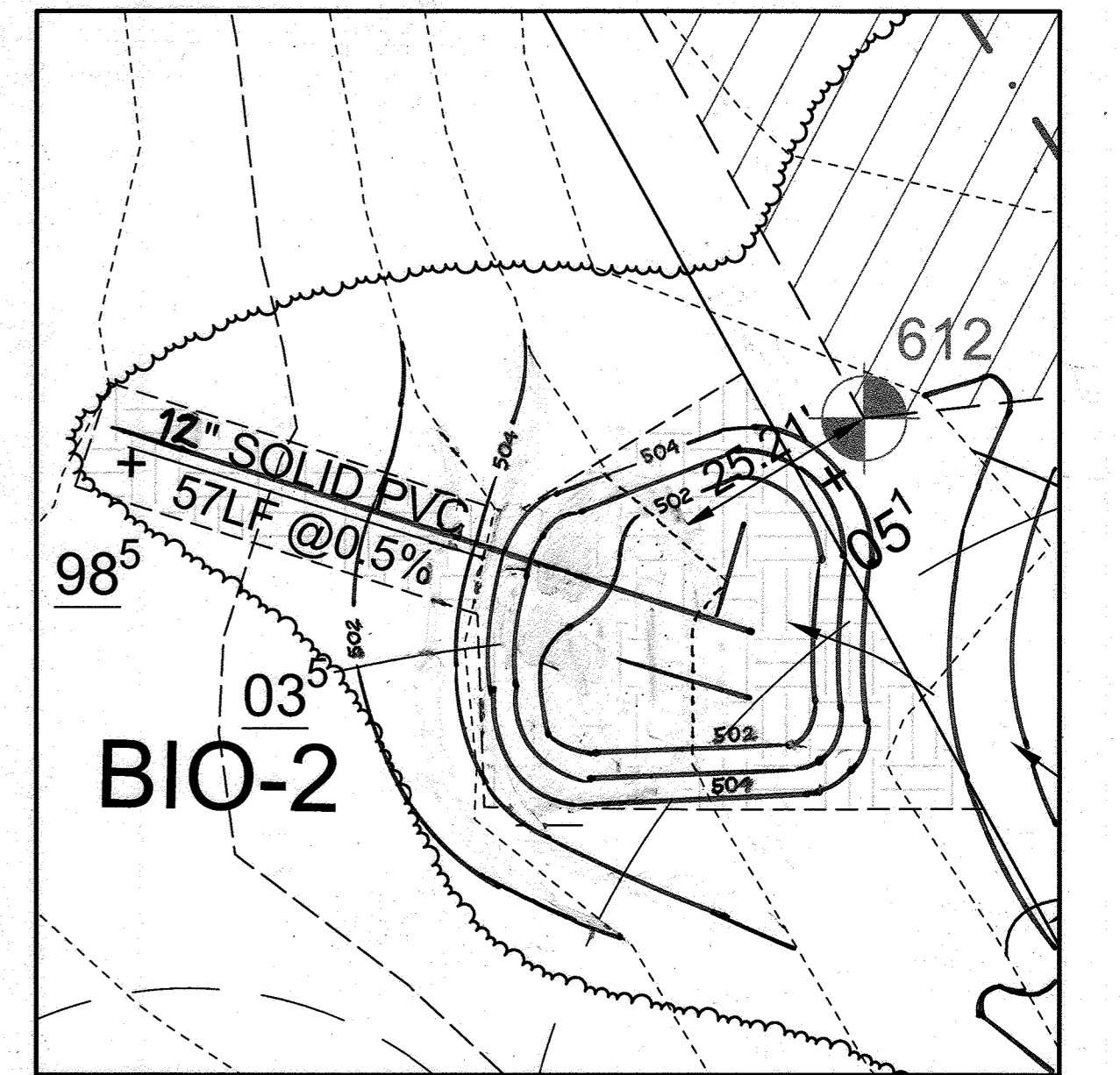
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
5/20/2022
[Signature: Chad Edmondson]
CHIEF, DEVELOPMENT ENGINEERING DIVISION
DATE: 5/25/2022
CHIEF, DIVISION OF LAND DEVELOPMENT
DATE:



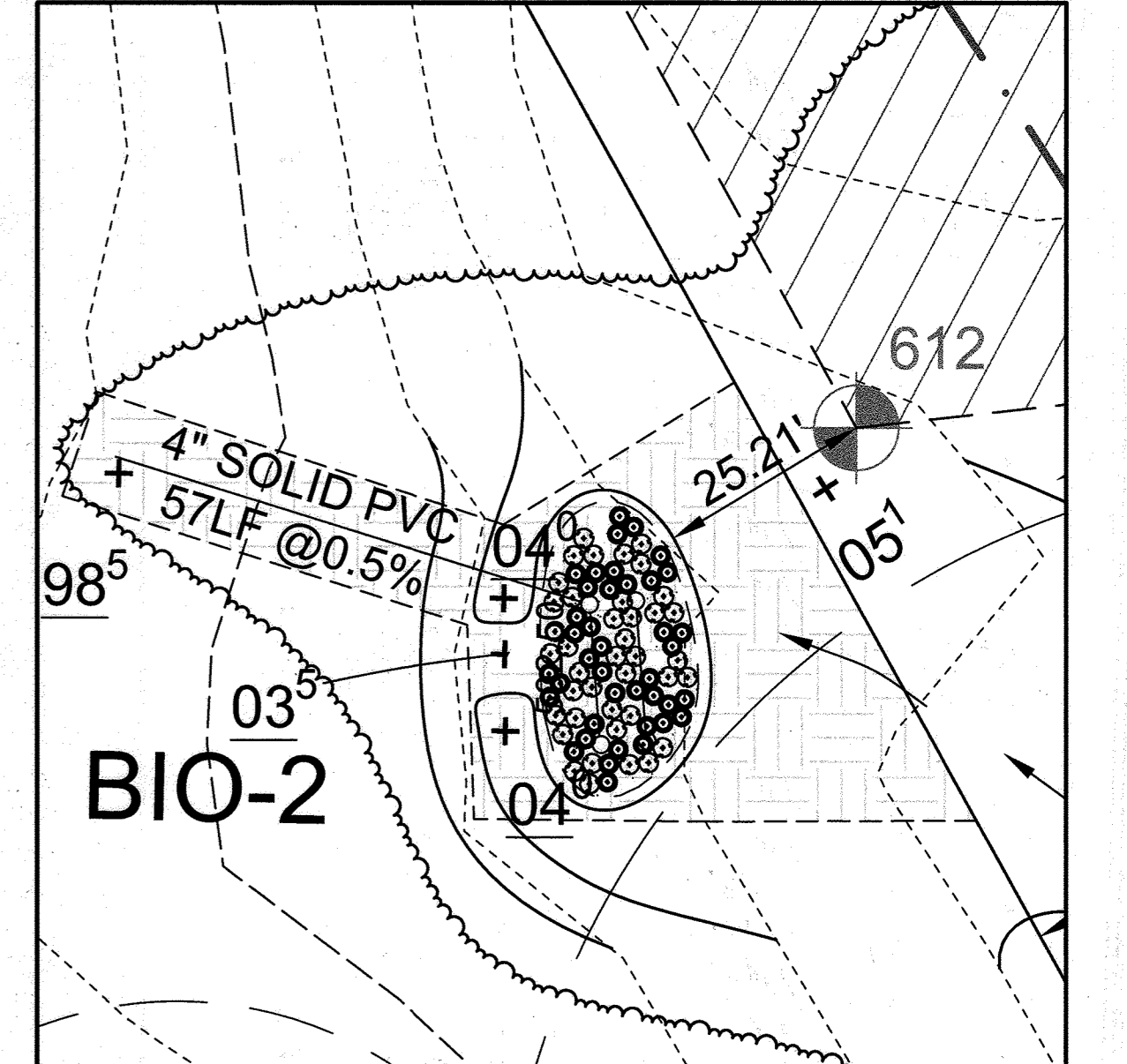
PLAN VIEW BIO #1
SCALE: 1"=20'



LANDSCAPE PLAN VIEW BIO #1
SCALE: 1"=20'



PLAN VIEW BIO #2
SCALE: 1"=20'



LANDSCAPE PLAN VIEW BIO #2
SCALE: 1"=20'

BORING 608:

- 0.0' - 0.5' DB, L
- SB, RY, LOAM
- 12.5' NO ROCK OR WATER ENCOUNTERED

BORING 612:

- 0.0' - 0.7' PB, L
- 2.9' YB, SBK, LOAM
- 3.7' YB THIN PLOTLY, SL-LS-S SAND @ 4' BRITTLE COBBLE 5%
- 14.0' NO ROCK OR WATER ENCOUNTERED

NOTE: INFO TAKEN FROM HOWARD COUNTY HEALTH DEPARTMENT PERC TEST RESULTS.

BIORETENTION PLANT LIST							
SHRUBS							
LEGEND	BOTANICAL NAME	COMMON NAME	SPACING	SIZE	REMARKS	QTY. BIO-1	QTY. BIO-2
⊙	ECHINCEA	CONEFLOWER	AS SHOWN* (MIN. 2' O.C.)	1 GALLON	-	36	40
⊙	RUBEBECKIA	BLACK-EYED SUSAN	AS SHOWN* (MIN. 2' O.C.)	1 GALLON	-	36	40

NOTE: PLANT MATERIAL MUST COVER 50% OF THE MULCH AREA AT MATURE GROWTH. IF NUMBER SHOWN IS DIFFERENT THEN THE QUANTITY SHOWN IN THE PLANT LIST, THE PLANT LIST SUPERSEDES.
*INTERSPERSE PLANTINGS THROUGHOUT BIORETENTION FILTER AREA

OWNER/DEVELOPER

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ELLICOTT CITY, MARYLAND 21042
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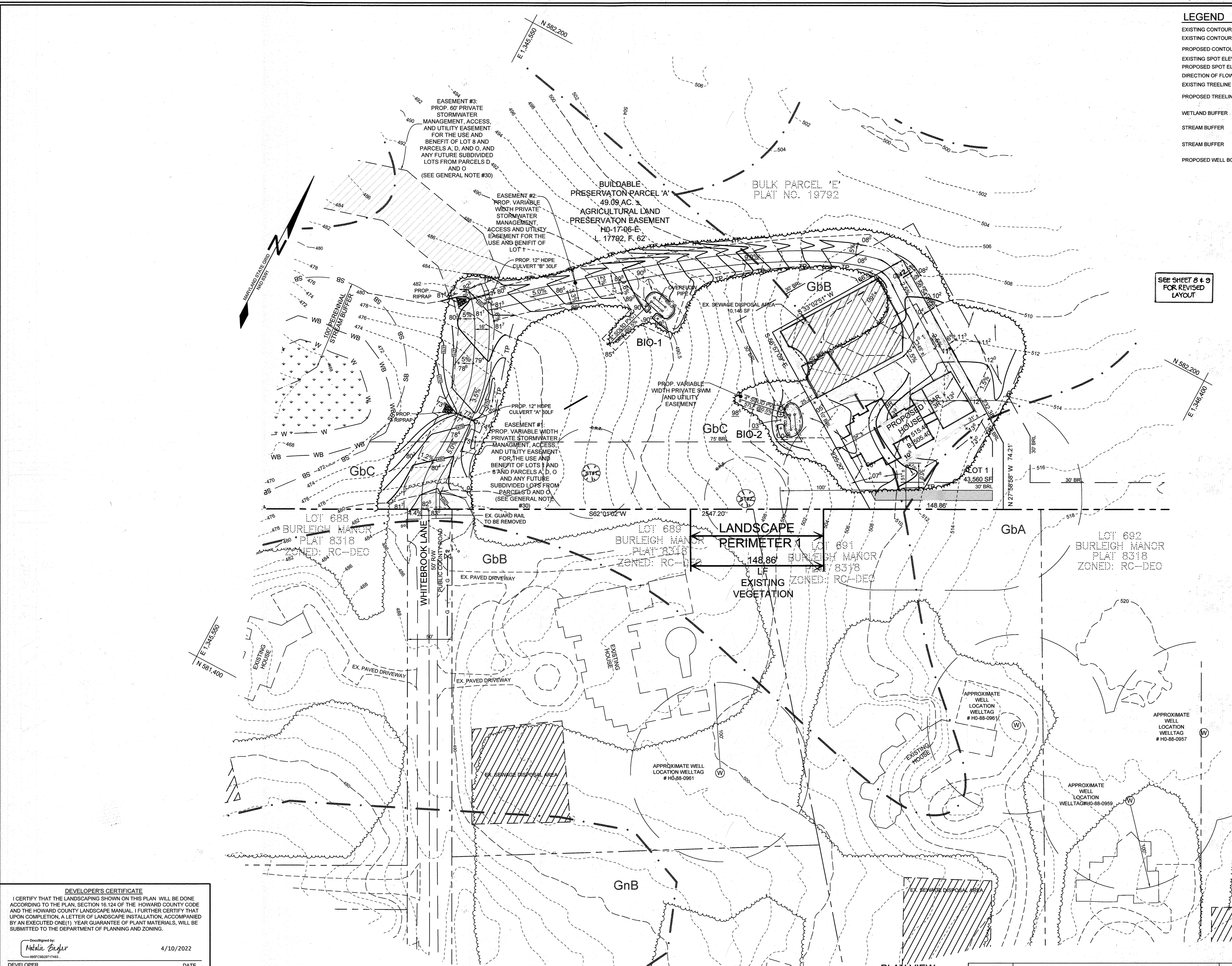
STORMWATER MANAGEMENT PLAN
NOTES & DETAILS
ZIEGLER PROPERTY
LOT 1 & BUILDABLE PRESERVATION PARCEL A

TAX MAP 23 GRID 23 3RD ELECTION DISTRICT
PARCEL 148
HOWARD COUNTY, MARYLAND

SILL ENGINEERING GROUP, LLC
16005 Frederick Road, 2nd Floor
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Civil Engineering for Land Development

DESIGN BY: PS
DRAWN BY: SZS
CHECKED BY: PS
SCALE: AS SHOWN
DATE: MARCH 14, 2022
PROJECT #: 18-037
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. 30205, EXPIRATION DATE: JUNE 20, 2023.



LEGEND

EXISTING CONTOUR GIS	---	382	PERCOLATION TEST: PASSED	
EXISTING CONTOUR FIELD RUN	---	382	PERCOLATION TEST: FAILED	
PROPOSED CONTOUR	---	382	EXISTING SPECIMEN TREE TO REMAIN	
EXISTING SPOT ELEVATION	+	82.53	PROPOSED VARIABLE WIDTH PRIVATE SWM, ACCESS AND UTILITY EASEMENT FOR LOT 1 & PIO PARCEL E OF PARCEL 148	
PROPOSED SPOT ELEVATION	+	82.53	PROPOSED VARIABLE WIDTH PRIVATE SWM, ACCESS AND UTILITY EASEMENT FOR LOT 1	
DIRECTION OF FLOW	→		PROPOSED FOREST CONSERVATION EASEMENT	
EXISTING TREELINE	---		MODERATE SLOPES 15-24.99%	
PROPOSED TREELINE	---		LANDSCAPE PERIMETER INDICATOR	
WETLAND BUFFER	WB		EXISTING VEGETATION INDICATOR	
STREAM BUFFER	SB			
STREAM BUFFER	W			
PROPOSED WELL BOX	---			

LANDSCAPE PER. 1

148.86 L.F.

EXISTING VEGETATION

SEE SHEET 6 & 9 FOR REVISED LAYOUT

SCHEDULE A PERIMETER LANDSCAPE EDGE

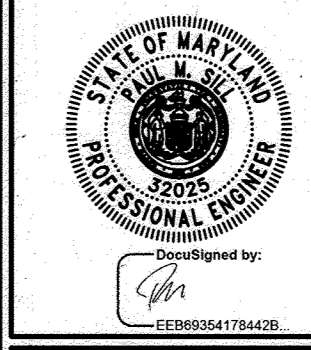
CATEGORY	ADJACENT TO PERIMETER PROPERTIES			
	1	2	3	4
PERIMETER/FRONTAGE DESIGNATION				
LANDSCAPE TYPE				
LINEAR FEET OF ROADWAY FRONTAGE/PERIMETER	148.86(A)	N/A	N/A	N/A
CREDIT FOR EXISTING VEGETATION (YES, NO, LINEAR FEET)	148.86	-	-	-
REMAINING PERIMETER LENGTH (YES, NO, LINEAR FEET)	0.0	-	-	-
CREDIT FOR WALL, FENCE OR BERM (YES, NO, LINEAR FEET)	NO	-	-	-
REMAINING PERIMETER LENGTH				
NUMBER OF PLANTS REQUIRED				
SHADE TREES	160=0	-	-	-
EVERGREEN TREES	-	-	-	-
SHRUBS	-	-	-	-
NUMBER OF PLANTS PROVIDED				
SHADE TREES	160=0	-	-	-
EVERGREEN TREES	-	-	-	-
SHRUBS	-	-	-	-

- #### LANDSCAPE NOTES
- THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL. NO FINANCIAL SURETY FOR THE REQUIRED LANDSCAPING WILL BE REQUIRED AS PART OF THE DPW DEVELOPERS AGREEMENT. CREDIT FOR EXISTING WOODLAND HAS BEEN UTILIZED AS LANDSCAPING BUFFERS.
 - AT THE TIME OF INSTALLMENT, ALL SHRUBS AND OTHER PLANTINGS HEREWITH LISTED AND APPROVED FOR THIS SITE, SHALL BE OF THE PROPER HEIGHT REQUIREMENTS IN ACCORDANCE WITH THE HOWARD COUNTY LANDSCAPING MANUAL. IN ADDITION, NO SUBSTITUTIONS OR RELOCATION OF REQUIRED PLANTINGS MAY BE MADE WITHOUT PRIOR REVIEW AND APPROVAL FROM THE DEPARTMENT OF PLANNING AND ZONING. ANY DEVIATION FROM THIS APPROVED LANDSCAPE PLAN MAY RESULT IN DENIAL OR DELAY IN THE RELEASE OF LANDSCAPE SURETY UNTIL SUCH TIME AS ALL REQUIRED MATERIALS ARE PLANTED AND/OR REVISIONS ARE MADE TO APPLICABLE PLANS AND CERTIFICATES.
 - THE OWNER, TENANT, AND/OR THEIR AGENTS SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE REQUIRED LANDSCAPING, INCLUDING BOTH PLANT MATERIALS AND BERMS, FENCES AND WALLS. ALL PLANT MATERIALS SHALL BE MAINTAINED IN GOOD GROWING CONDITION, AND WHEN NECESSARY, REPLACED WITH NEW MATERIALS TO ENSURE CONTINUED COMPLIANCE WITH APPLICABLE REGULATIONS. ALL OTHER REQUIRED LANDSCAPING SHALL BE PERMANENTLY MAINTAINED IN GOOD CONDITION, AND WHEN NECESSARY, REPAIRED OR REPLACED.

OWNER/DEVELOPER
 NATALIE ZIEGLER
 3800 MANOR LANE
 ELLICOTT CITY, MARYLAND 21042
 NZIEGLER@AOL.COM
 410-215-3456

LANDSCAPE PLAN
ZIEGLER PROPERTY
 LOT 1 & BUILDABLE PRESERVATION PARCEL A

TAX MAP 23 GRID 23 3RD ELECTION DISTRICT PARCEL 148 HOWARD COUNTY, MARYLAND



SILL ENGINEERING GROUP, 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: SZS
 CHECKED BY: PS
 SCALE: AS SHOWN
 DATE: MARCH 14, 2022
 PROJECT #: 18-037
 SHEET #: 6 of 9

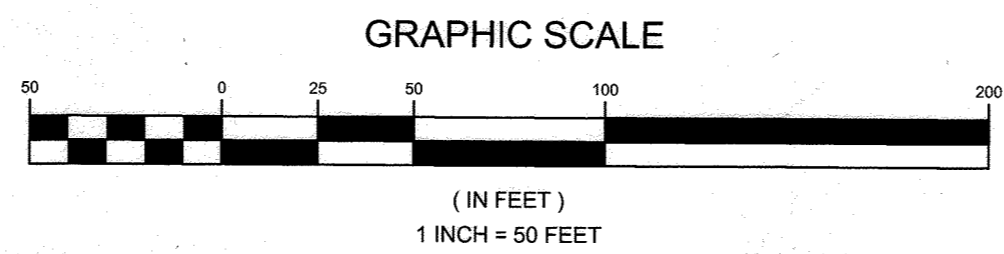
DEVELOPER'S CERTIFICATE

I CERTIFY THAT THE LANDSCAPING SHOWN ON THIS PLAN WILL BE DONE ACCORDING TO THE PLAN, SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE HOWARD COUNTY LANDSCAPE MANUAL. I FURTHER CERTIFY THAT UPON COMPLETION, A LETTER OF LANDSCAPE INSTALLATION, ACCOMPANIED BY AN EXECUTED ONE(1) YEAR GUARANTEE OF PLANT MATERIALS, WILL BE SUBMITTED TO THE DEPARTMENT OF PLANNING AND ZONING.

Designed by: Natalie Ziegler 4/10/2022
 DEVELOPER DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING 5/20/2022
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

Chad Edmondson 5/25/2022
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE



PLAN VIEW
 SCALE: 1"=50'

No.	DESCRIPTION	DATE

SPECIMEN TREE TABLE						
KEY	DBH	SPECIES	CRZ (FEET)	AGE (YEARS)	REMARKS/CONDITION	RETAINED/REMOVED
ST-1	33.5"	TULIP POPLAR	50.25	100+/-	GOOD CONDITION	TO BE RETAINED
ST-2	31"	TULIP POPLAR	46.5	93+/-	GOOD CONDITION	TO BE RETAINED

LEGEND

EXISTING CONTOUR GIS	---	382	PERCOLATION TEST: PASSED	
EXISTING CONTOUR FIELD RUN	---	382	PERCOLATION TEST: FAILED	
PROPOSED CONTOUR	---	382		
EXISTING SPOT ELEVATION	+	422.83		
PROPOSED SPOT ELEVATION	+	422.83		
DIRECTION OF FLOW	---			
EXISTING TREELINE	---		EXISTING SPECIMEN TREE TO REMAIN	
PROPOSED TREELINE	---			
WETLAND BUFFER	WB		PROP. VARIABLE WIDTH PRIVATE SWM, ACCESS AND UTILITY EASEMENT	
STREAM BUFFER	SB			
STREAM BUFFER	W		MODERATE SLOPES 15-24.99%	
PROPOSED WELL BOX	---		TREE PROTECTION FENCE	
			FOREST CONSERVATION SIGN	

FOREST CONSERVATION SIGN DETAIL

NOT TO SCALE

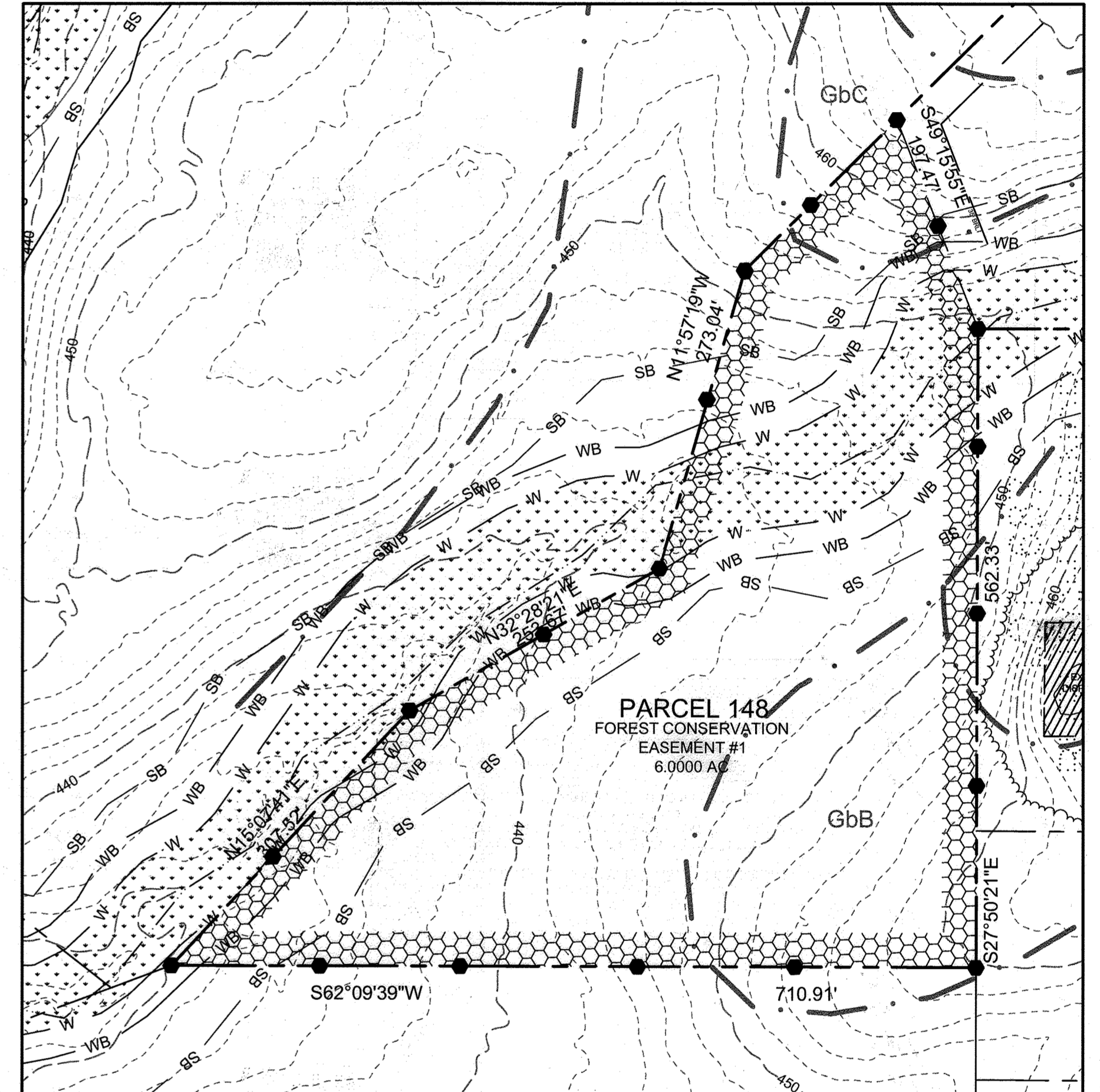
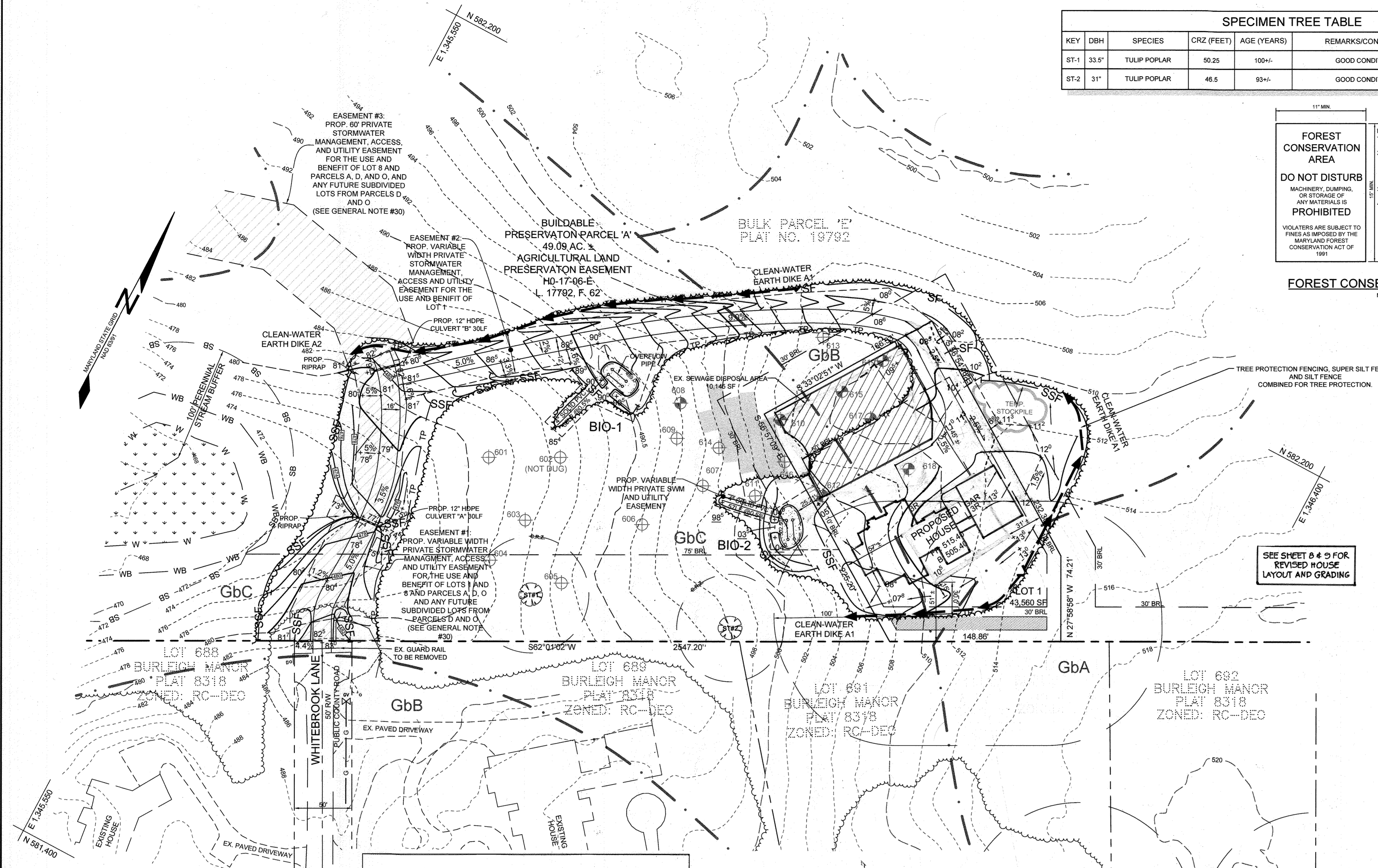
FOREST CONSERVATION AREA
DO NOT DISTURB
MACHINERY, DUMPING, OR STORAGE OF ANY MATERIALS IS PROHIBITED

NOTES:
1. BOTTOM OF SIGN TO BE HIGHER THAN TOP OF TREE PROTECTION FENCE.
2. SIGNS TO BE PLACED APPROXIMATELY 30'-100' APART. CONDITIONS ON SITE AFFECTING VISIBILITY MAY WARRANT PLACING SIGNS CLOSER OR FARTHER APART.
3. ATTACHMENT OF SIGNS TO TREES IS PROHIBITED.
4. SIGNAGE SHALL BE IN PLACE FOR PERPETUITY.

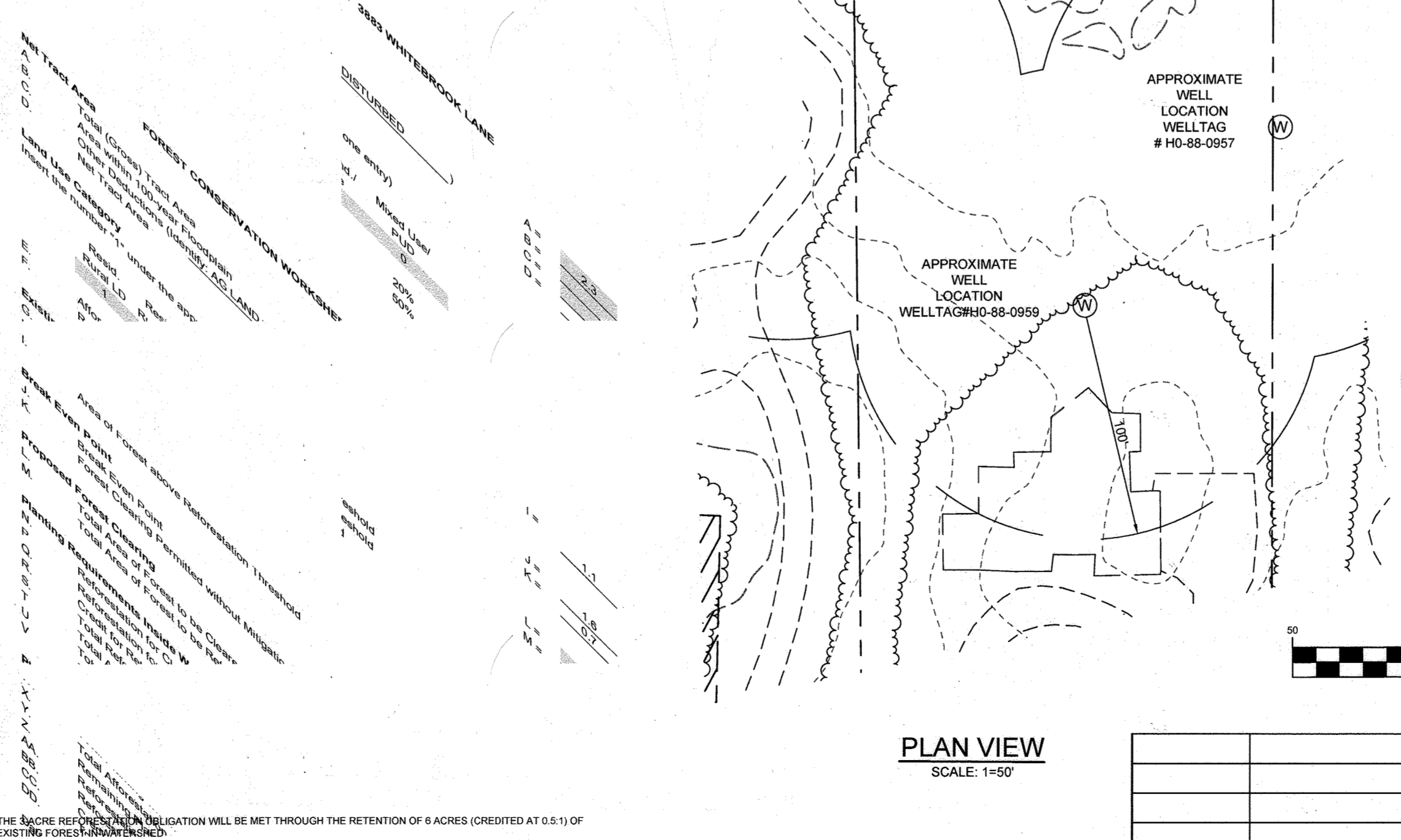
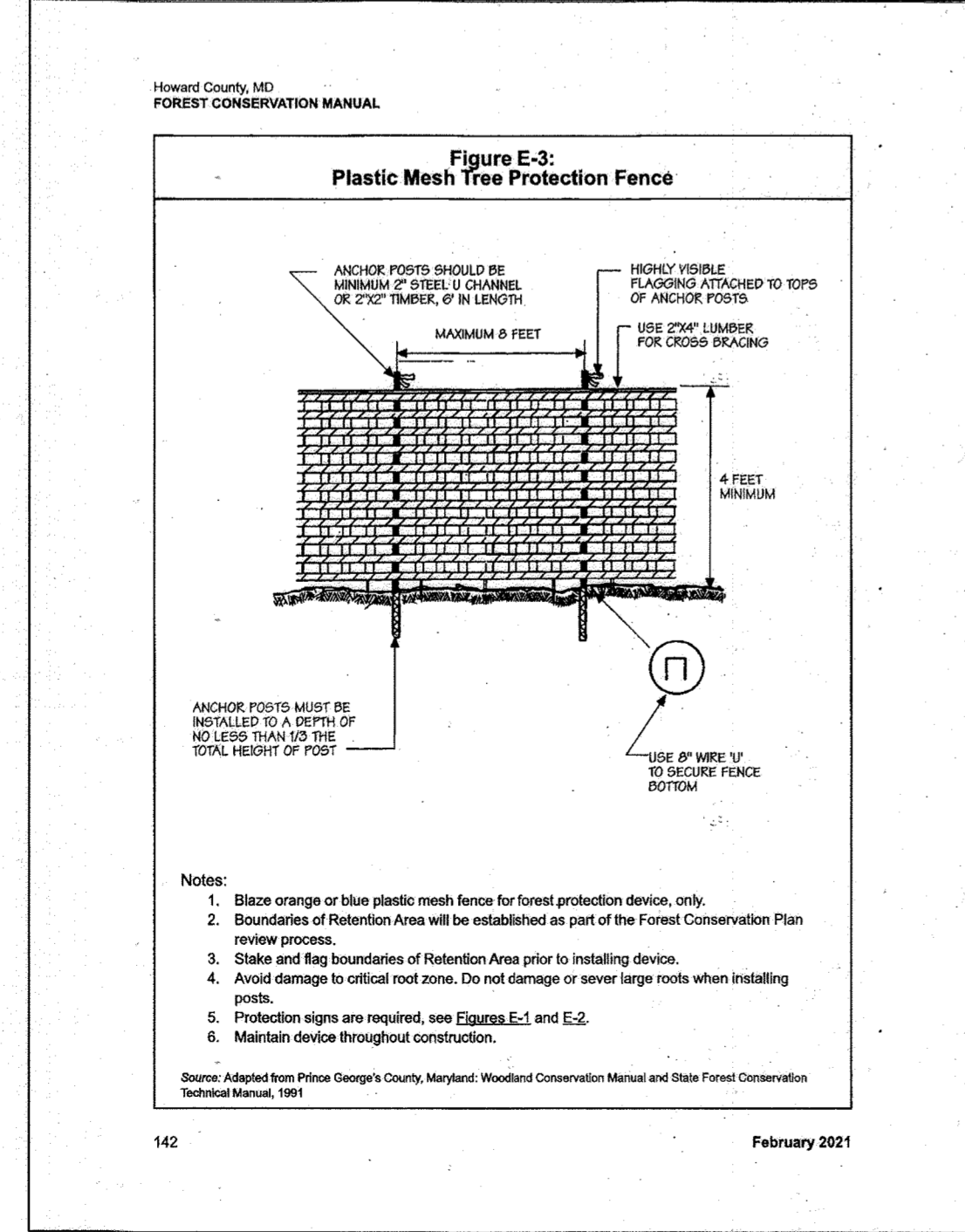
WATERS ARE SUBJECT TO FINES AS IMPOSED BY THE MARYLAND FOREST CONSERVATION ACT OF 1991

FOREST CONSERVATION EASEMENTS

EASEMENTS ARE A LEGAL MEANS OF PROVIDING PERMANENT PROTECTION OF FORESTS, FARMLAND AND OPEN SPACE, IN ACCORDANCE WITH THE CRITERIA OUTLINED IN THE HOWARD COUNTY FOREST CONSERVATION MANUAL. A FOREST CONSERVATION EASEMENT WILL BE RECORDED FOR THE RETENTION AREAS OF THE SUBJECT PROPERTY. SUBMISSION OF THE EASEMENTS FOR RECORDATION WILL OCCUR PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.



- ### FOREST CONSERVATION NOTES
- THIS PLAN COMPLIES WITH THE REQUIREMENTS OF SECTION 16.1200 OF THE HOWARD COUNTY CODE FOR FOREST CONSERVATION AND THE FOREST CONSERVATION MANUAL BY CREATING A 6.0 ACRE "OFF-SITE" RETENTION EASEMENT ON THE BALANCE OF PARCEL E OF PARCEL 148. THIS RETENTION AREA IS WITHIN THE SAME WATERSHED AS THE PROJECT AREA.
 - NO RARE, THREATENED OR ENDANGERED SPECIES, OR THEIR HABITATS, WERE OBSERVED ON THE PROPERTY.
 - SURROUNDING LAND USE IS PRIMARILY RURAL LOW DENSITY.
 - NO STREAMS, WETLANDS OR BUFFERS ARE PRESENT WITHIN THE PROPOSED USE AREA BUT A HEADWATER WETLAND/STREAM SYSTEM IS PRESENT TO THE WEST OF THE PROPOSED ACCESS DRIVEWAY. THE DRIVEWAY HAS BEEN SITUATED TO AVOID THESE RESOURCES AND THEIR BUFFERS. THE HEADWATER WETLANDS HAVE A CANOPY MADE UP OF RED MAPLE WITH FALSE NETTLE, WOOD REED AND JEWELWEED BEING VERY COMMON IN THE HERBACEOUS LAYER. THE WETLANDS AND STREAM ARE WITHIN THE PATUXENT WATERSHED OF DNR 021311050957, AND PART OF USE 14-F TRIBUTARY TO THE LITTLE PATUXENT RIVER (0213-09).
 - NO HISTORIC ELEMENTS OR CEMETERIES ARE PRESENT ON THE PROPERTY. THE PROPERTY IS PART OF THE DOUGHOUREGAN MANOR PROPERTY WHICH IS LISTED ON THE NATIONAL REGISTER OF HISTORIC PLACES, NATIONAL ID 71000376.
 - NO 100 YEAR FLOODPLAIN IS PRESENT ON THE PROPERTY.
 - 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 HAVE BEEN APPROVED OR ACTIVITIES HAVE BEEN DETERMINED ESSENTIAL BY THE DEPARTMENT OF PLANNING AND ZONING.
 - THERE SHALL BE NO CLEARING, GRADING, CONSTRUCTION OR DISTURBANCE OF VEGETATION WITH AREAS DEFINED AS FOREST CONSERVATION EASEMENTS.
 - NO STOCKPILES, PARKING AREAS, EQUIPMENT CLEANING AREAS, ETC. SHALL OCCUR WITHIN AREAS DESIGNATED AS NON-DISTURBANCE AREAS.
 - TEMPORARY FENCING, SUPER SILT FENCE, SHALL BE USED TO PROTECT FOREST RESOURCES DURING CONSTRUCTION. TREE PROTECTION SHALL BE INSTALLED ALONG LIMITS OF DISTURBANCE. PERMANENT SIGNAGE SHALL BE INSTALLED ALONG THE FOREST CONSERVATION EASEMENT BOUNDARY TO PREVENT FUTURE ENCROACHMENT INTO THE AREA. SIGNAGE SHALL BE PLACED AT 50-100 FOOT INTERVALS ALONG THE BOUNDARY.
 - THE FOREST PROTECTION DEVICES SHALL BE INSTALLED SUCH THAT THE CRITICAL ROOT ZONES OF ALL TREES WITHIN THE RETENTION AREA NOT OTHERWISE PROTECTED WILL BE WITHIN FOREST PROTECTION DEVICES



DocuSigned by:
A4057083BCA145D...

4/9/2022

JOANNE CAREY, P.L.A. 4148
MD DNR QUALIFIED PROFESSIONAL

GRAPHIC SCALE
(IN FEET)
1 INCH = 50 FEET

OWNER/DEVELOPER
NATALIE ZIEGLER
3800 MANOR LANE
ELLICOTT CITY, MARYLAND 21042
NZIEGLER@AOL.COM
410-215-3456

FOREST CONSERVATION PLAN
ZIEGLER PROPERTY
LOT 1 & BUILDABLE PRESERVATION
PARCEL A

TAX MAP 23 GRID 23
3RD ELECTION DISTRICT

PARCEL 148
HOWARD COUNTY, MARYLAND

SILL ENGINEERING GROUP, LLC
16905 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: SZS
CHECKED BY: PS
SCALE: AS SHOWN
DATE: MARCH 14, 2022
PROJECT #: 18-037
SHEET #: 7 of 9

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. 32005, EXPIRATION DATE JUNE 30, 2025.

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
5/20/2022

CHIEF, DEVELOPMENT ENGINEERING DIVISION
DATE: 5/25/2022

CHIEF, DIVISION OF LAND DEVELOPMENT
DATE:

No.	DESCRIPTION	DATE

GENERAL NOTES:

OWNER: JOSHUA & YANINA GLANTZ
2742 RIDGE ROAD
WINSOR MILL, MD 21214
631-255-1930
ELECTION DISTRICT: 2-17
DEED REF: 15608406, 17674/140
PLAT REF: 0318
TAX MAP: 23
SITE ADDRESS: 3891 WHITEBROOK LANE
ELICOTT CITY, MD 21042

DEVELOPER: KEYSTONE CUSTOM HOMES
227 GRANITE RUN DRIVE, SUITE 100
LANCASTER, PA 17601
CONTACT: GREGG REINSMITH

SETBACKS:	REQUIRED	PROPOSED
MIN. LOT AREA	NA	1.00 ACRES
MIN. LOT WIDTH	100 FT.	NA FT.
FRONT YARD DEPTH	50 FT.	121.6 FT.
SIDE YARD	10 FT.	10.8 FT.
REAR YARD	30 FT.	49.9 FT.
BLDG. HEIGHT	40 FT.	TBD

- EXISTING ZONING: RC-DEO
- SITE ANALYSIS DATA:
 - TOTAL AREA OF SITE: 1.00 AC.
 - EXISTING IMPERVIOUS AREA: 0.00 AC.
 - EXISTING GREEN AREA: 1.00 AC.
 - EXISTING FORESTED AREA: 0.00 AC.
 - EXISTING SITE USE: VACANT
- AREA OF PLAN SUBMISSION: 42,340 SQ.F.T.
 - LIMIT OF DISTURBANCE: 69,951 SQ.F.T.
 - IMPERVIOUS AREA: 20,827 SQ.F.T.
 - REVEGETATED AREA: 67,000 SQ.F.T.
 - PROPOSED USE: NEW RESIDENTIAL HOUSE AND ACCESS DRIVE
 - PREVIOUS SUBMITTALS: N/A
- NO WETLANDS, STREAMS, FLOODPLAIN, FOREST, STEEP SLOPES, ERODIBLE SOILS, OR ASSOCIATED BUFFERS EXIST WHICH MAY AFFECT THE CONSTRUCTION OF THE PROPOSED BUILDING AND ITS APPURTENANCES.
- A MINIMUM OF 6" OF TOPSOIL WILL BE APPLIED TO ALL DISTURBED AREAS OF THIS PROJECT.
- HOWARD COUNTY IS GRANTED ACCESS TO ANY ON LOT SWM FACILITIES FOR INSPECTION IN THE EVENT OF A MALFUNCTION.
- NO PERSON SHALL PLACE ANY OBSTRUCTION IN AN EASEMENT ASSOCIATED WITH A FEDERAL OR STATE REGULATED RESOURCE WITHOUT PRIOR WRITTEN AUTHORIZATION BY THE APPROPRIATE REGULATORY AUTHORITY.
- THE MUNICIPALITY, ITS AGENTS AND EMPLOYEES SHALL HAVE THE RIGHT TO ENTER ANY PROPERTY WHERE STORMWATER MANAGEMENT AND EROSION AND SEDIMENT CONTROL FACILITIES ARE LOCATED FOR THE PURPOSE OF INSPECTING AND, IF NECESSARY, IN THE EVENT THE RESPONSIBLE PARTIES FAIL TO DO SO, MAINTAINING OR REPAIRING SAID FACILITIES.
- STORMWATER MANAGEMENT WILL BE PROVIDED VIA TWO MICRO-BIOTENTIONS, AND NON-ROOFTOP DISCONNECT.
- DRIVEWAY ACCESS AND SWM MUST EITHER BE CONSTRUCTED PRIOR TO THE CONSTRUCTION OF THE STRUCTURE OR CONCURRENTLY WITH THE CONSTRUCTION OF THE STRUCTURE, UNDER THE SAME PERMIT.

BREAKDOWN OF SITE FEATURES

CUT/FILL CALC.	CUT- 5,934 C.Y.	FILL- 1,395 C.Y.	4,539 C.Y. (EXPORT)
DRIVEWAY PAVING	14,266 SQ. FT.		
DRIVEWAY PAVING (GRAVEL)	NA		
CONCRETE DRIVEWAY APRON	NA		
6" PVC ROOF MANIFOLD	NA		
6" PERF. PVC ROOF LEADER	50 L.F.		
6" PVC ROOF LEADER	445 L.F.		
4" PVC HOUSE MANIFOLD	NA		
4" PVC ROOF LEADER	760 L.F.		
DRYWELLS	NA		
SEPTIC SYSTEM (ON LOT)	YES		
WELL (ON LOT)	YES		
TRENCH DRAIN	NA		
INLETS	NA		
LEAF GUARDS	YES		
C.O. & VENTS	YES		
SEEPAGE PIT	NA		
COMPOST SOCK	NA		
ROCK CONSTRUCTION ENTRANCE	NA		
CONCRETE WASHOUT	1		
SILT FENCE	700 L.F.		
ORANGE CONSTRUCTION FENCE	NA		
EROSION BLANKET	NA		
AMENDED SOILS	NA		
PROPANE TANK (ON LOT)	YES		
CONCRETE SIDEWALK (PUBLIC)	NA		
ADA RAMP	NA		
INLET PROTECTION	NA		
LANDSCAPE RETAINING WALL	NA		

BREAKDOWN OF IMPERVIOUS AREA OUTSIDE OF ROW

HOUSE	6,416 SQ. FT.
WALKWAY	145 SQ. FT.
DRIVEWAY (PAVED)	14,266 SQ. FT.
DRIVEWAY (GRAVEL)	NA
DECK (FUTURE)	NA
PATIO (LOWER LEVEL)	NA

TOTAL 20,827 SQ. FT.

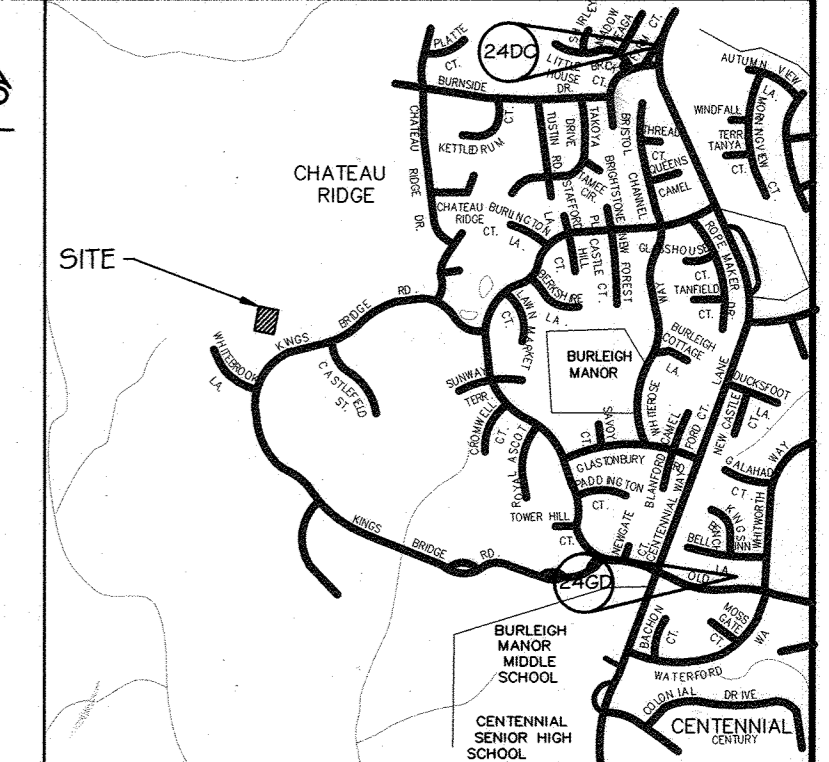
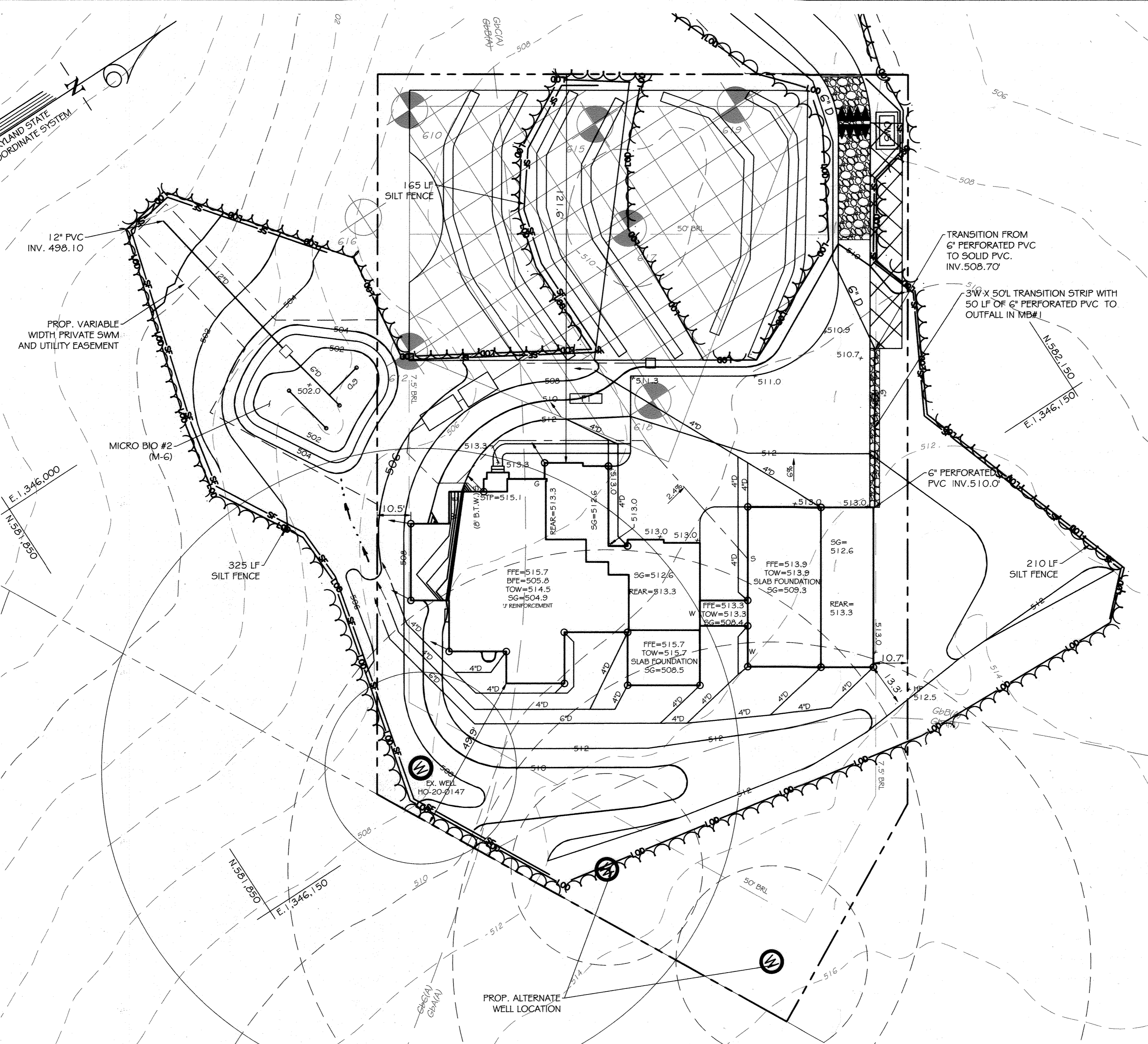
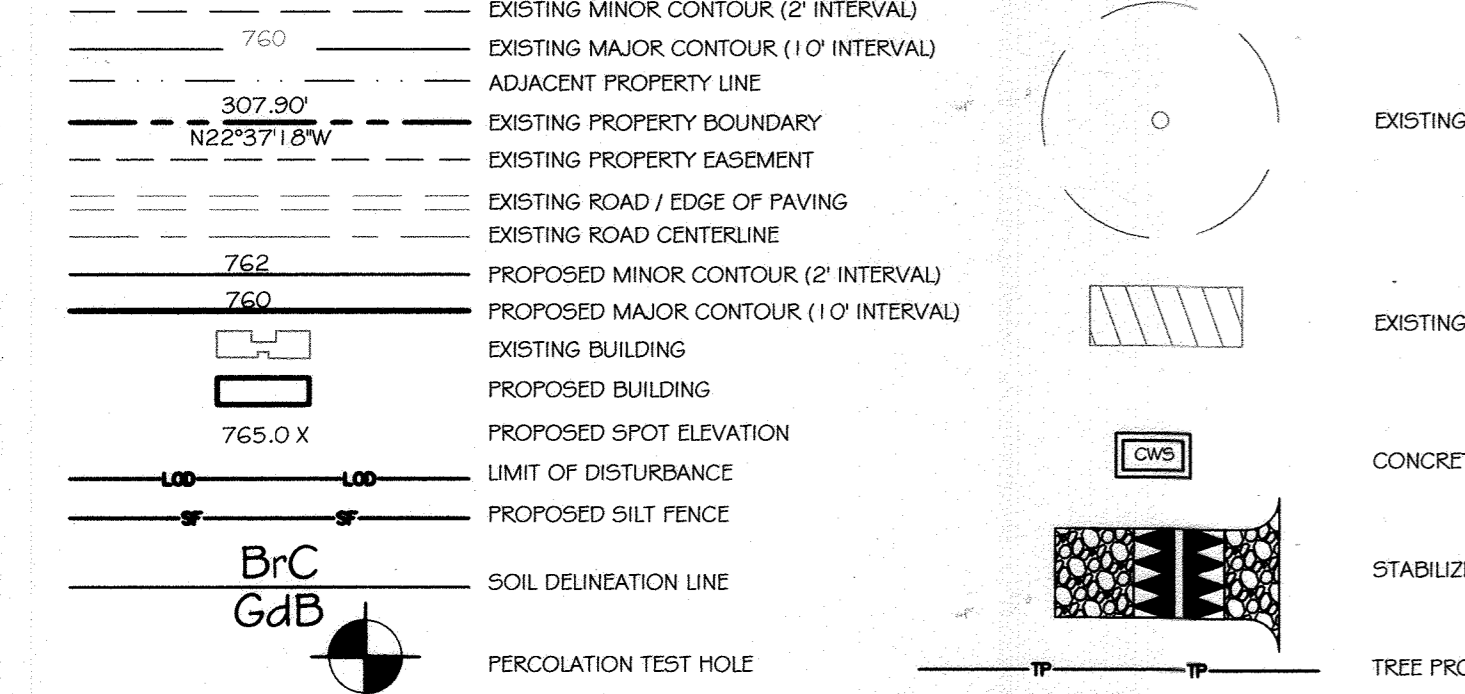
WATER LATERAL	± 45 LF (WELL TO HOUSE)
SEWER LATERAL	± 120 LF (SRA TO HOUSE)
ELECTRIC SERVICE	(TO BE DESIGNED BY DGE)
GAS SERVICE	NOT IN AREA
PHONE	± TBD LF
TV/INTERNET	NA
ENVELOPE SIZE	± 0.90 ACRES
BASEMENT TYPE	DEFAULT
BASEMENT HEIGHT	9.63' FFF TO BFE
BASEMENT ENTRY LOC.	WALKOUT
DRIVEWAY LOCATION	LEFT
DRIVEWAY TYPE	FRONT / SIDE LOAD
UTILITY LOCATION	TBD
DRIVEWAY LAMP POST	TBD

EXISTING NATURAL SENSITIVE RESOURCE	TOTAL AREA
WATERBODIES	0.00 ACRES
FLOODPLAIN, RIPARIAN, NATURAL DRAINAGEWAYS	0.00 ACRES
WETLANDS	0.00 ACRES
WOODLANDS	0.00 ACRES
STEEP SLOPES 15-25%	0.00 ACRES
STEEP SLOPES 25%+	0.00 ACRES

WITHIN LIMIT OF DISTURBANCE

SOILS	
GbA (A)	GLADSTONE LOAM, 0-3% SLOPES
GbB (A)	GLADSTONE LOAM, 3-8% SLOPES
GbC (A)	GLADSTONE LOAM, 8-15% SLOPES

DRAWING LEGEND



BENCHMARK COORDINATES

24DC
NORTHING: 178246.874
EASTING: 411636.625

24GD
NORTHING: 176487.501
EASTING: 411849.98

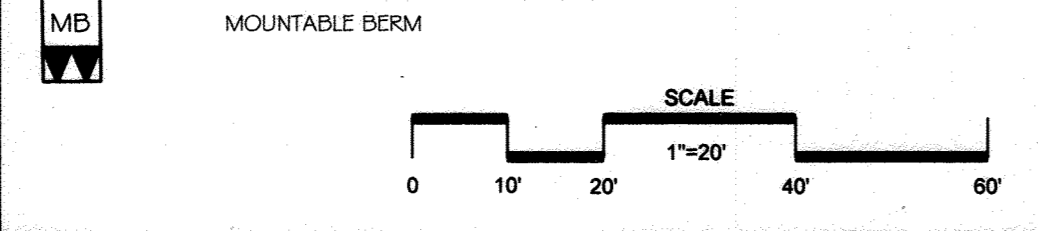
GENERAL NOTES
RESIDENTIAL
SITE DEVELOPMENT PLAN

- THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF ENGINEERING/CONSTRUCTION INSPECTION DIVISION AT (410) 313-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK.
- THE CONTRACTOR SHALL NOTIFY MISS UTILITY AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE.
- THE EXISTING TOPOGRAPHY IS TAKEN FROM AERIAL SURVEY WITH TWO FOOT CONTOUR INTERVALS PREPARED BY HOWARD COUNTY GIS DATA.
- THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL, WHICH IS BASED UPON THE MARYLAND STATE PLANE COORDINATE SYSTEM. HOWARD COUNTY MONUMENT NOS. AND WERE USED FOR THIS PROJECT.
- STORMWATER MANAGEMENT HAS BEEN APPROVED UNDER PLAN F-21-06G.
- 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 RECORDED 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.
- ANY DAMAGE TO THE COUNTY'S RIGHT-OF-WAY SHALL BE CORRECTED AT THE DEVELOPER'S EXPENSE.
- SOILS SHOWN HEREON HAVE BEEN TAKEN FROM THE US DEPARTMENT OF AGRICULTURE, NATURAL RESOURCES CONSERVATION SERVICE, WEB SOIL SURVEY WEBSITE.



APPROVED: DEPARTMENT OF PLANNING AND ZONING

Chief, Development Engineering Division
 DATE: 8/24/23
 Chief, Division of Land Development
 DATE: 10/13/23



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. 28935
 EXPIRATION DATE: 01/15/2025

ENGINEERS PLANNERS SCIENTISTS CONSTRUCTION MANAGERS
KCI TECHNOLOGIES

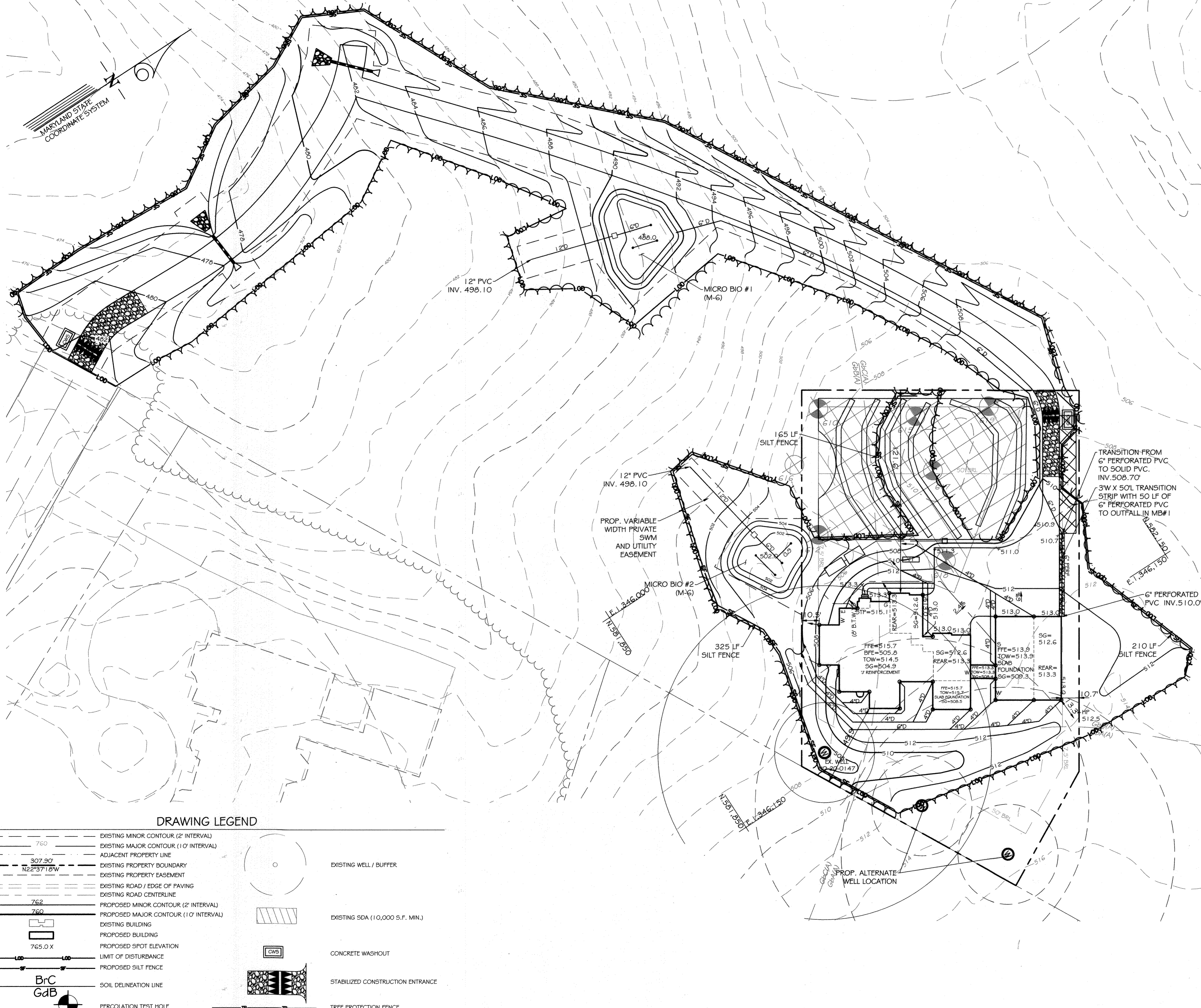
REVISIONS			
NO.	DATE	DESCRIPTION	BY

DATE: 8/24/2023
 SCALE: 1" = 20'
 DESIGNED BY: FFW
 DRAWN BY: JDL

SUPPLEMENTAL PLAN SHEET
ZIEGLER PROPERTY
 LOT 1 & BUILDABLE PRESERVATION
 PARCEL A

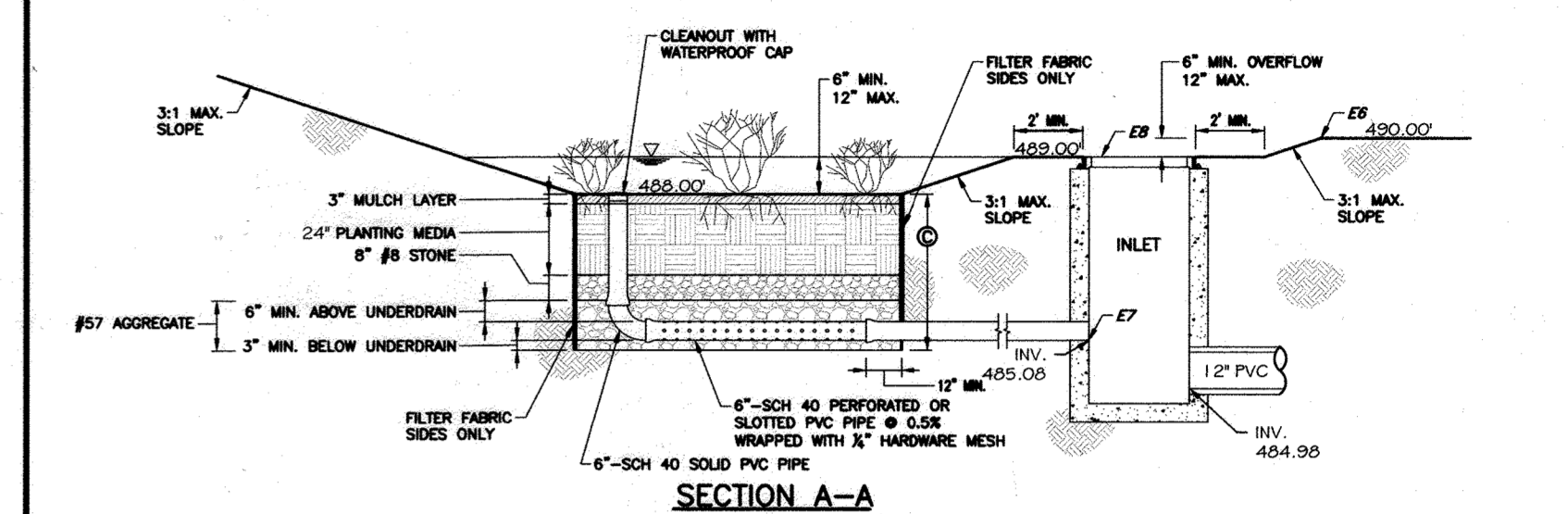
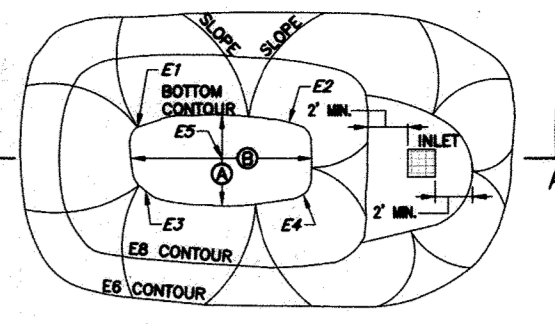
SHEET 8 OF 9
 KCI JOB NUMBER: 271803754.97

ZONING: RC-DEO TAX MAP: 23 GRID: 23 PARCEL: 148 ELECTION DIST: 3RD



NOTES

- FACILITY SHALL BE A MINIMUM OF 10FT FROM ANY BUILDING.
- FACILITY SHALL BE INSTALLED IN EXCAVATED WORM SOIL (NOT FILL).
- FACILITY SHALL BE MINIMUM 4" ABOVE THE SEASONAL HIGH WATER TABLE.
- REGULAR INSPECTIONS SHALL BE REQUIRED DURING FOLLOWING STAGES OF THE CONSTRUCTION:
 - DURING EXCAVATION TO SUBGRADE AND PLACEMENT AND BACKFILL OF UNDERDRAIN SYSTEMS.
 - DURING PLACEMENT OF PLANTING MEDIA.
 - DURING CONSTRUCTION OF APPURTENANT CONVEYANCE.
 - UPON COMPLETION OF FINAL GRADING AND ESTABLISHMENT OF PERMANENT STABILIZATION.
- E1 TO E8 AS-BUILT SPOT ELEVATION LOCATIONS.
- THIS STANDARD IS A REFERENCE TO SHOW THE ELEMENTS AND MINIMUM DIMENSIONS FOR A MICRO-BIORETENTION FACILITY. EACH FACILITY SHALL BE DESIGNED AND APPROVED ON A SITE SPECIFIC BASIS. THIS DETAIL PROVIDES BLANK SPACES TO INFORM WHERE AS-BUILT INFORMATION IS REQUIRED FOR SWM CLOSEDOUT.



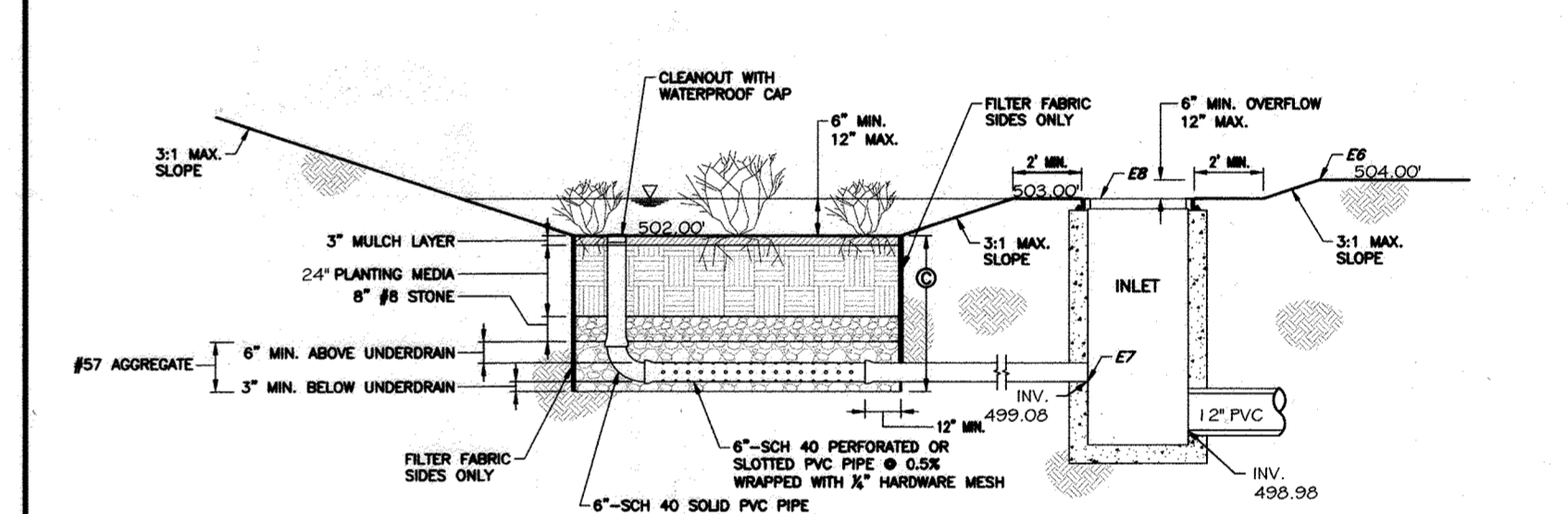
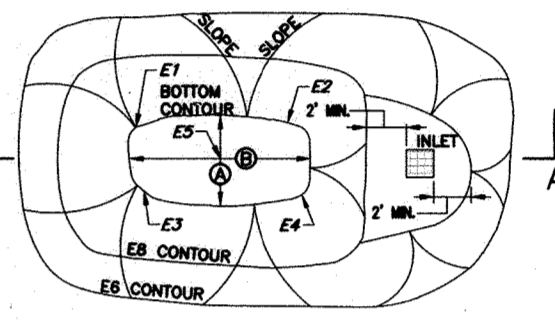
Howard County, Maryland
Department of Public Works
Approved: *Prerna R. Suth*
Chief, Bureau of Engineering

MICRO-BIORETENTION FACILITY #1
Private For Reference

Detail
D-9.03

NOTES

- FACILITY SHALL BE A MINIMUM OF 10FT FROM ANY BUILDING.
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- FACILITY SHALL BE MINIMUM 4" ABOVE THE SEASONAL HIGH WATER TABLE.
- REGULAR INSPECTIONS SHALL BE REQUIRED DURING FOLLOWING STAGES OF THE CONSTRUCTION:
 - DURING EXCAVATION TO SUBGRADE AND PLACEMENT AND BACKFILL OF UNDERDRAIN SYSTEMS.
 - DURING PLACEMENT OF PLANTING MEDIA.
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 - UPON COMPLETION OF FINAL GRADING AND ESTABLISHMENT OF PERMANENT STABILIZATION.
- E1 TO E8 AS-BUILT SPOT ELEVATION LOCATIONS.
- THIS STANDARD IS A REFERENCE TO SHOW THE ELEMENTS AND MINIMUM DIMENSIONS FOR A MICRO-BIORETENTION FACILITY. EACH FACILITY SHALL BE DESIGNED AND APPROVED ON A SITE SPECIFIC BASIS. THIS DETAIL PROVIDES BLANK SPACES TO INFORM WHERE AS-BUILT INFORMATION IS REQUIRED FOR SWM CLOSEDOUT.



Howard County, Maryland
Department of Public Works
Approved: *Prerna R. Suth*
Chief, Bureau of Engineering

MICRO-BIORETENTION FACILITY #2
Private For Reference

Detail
D-9.03

DRAWING LEGEND

	EXISTING MINOR CONTOUR (2' INTERVAL)		EXISTING WELL / BUFFER
	EXISTING MAJOR CONTOUR (10' INTERVAL)		EXISTING SDA (10,000 S.F. MIN.)
	ADJACENT PROPERTY LINE		CONCRETE WASHOUT
	EXISTING PROPERTY BOUNDARY		STABILIZED CONSTRUCTION ENTRANCE
	EXISTING PROPERTY EASEMENT		TREE PROTECTION FENCE
	EXISTING ROAD / EDGE OF PAVING		
	EXISTING ROAD CENTERLINE		
	PROPOSED MINOR CONTOUR (2' INTERVAL)		
	PROPOSED MAJOR CONTOUR (10' INTERVAL)		
	EXISTING BUILDING		
	PROPOSED BUILDING		
	PROPOSED SPOT ELEVATION		
	LIMIT OF DISTURBANCE		
	PROPOSED SILT FENCE		
	SOIL DELINEATION LINE		
	SOIL DELINEATION LINE		
	PERCOLATION TEST HOLE		
	MOUNTABLE BERM		

APPROVED: DEPARTMENT OF PLANNING AND ZONING

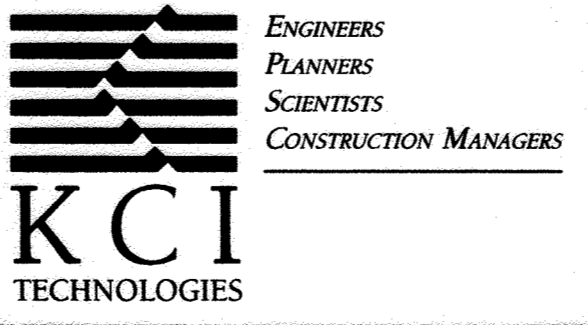
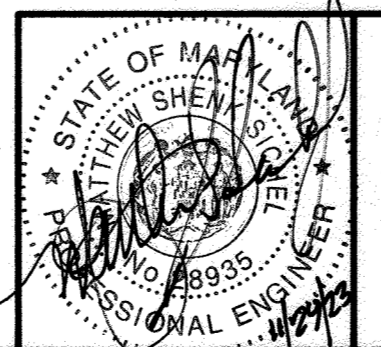
Chief
CHIEF, DEVELOPMENT ENGINEERING DIVISION

DATE: 12.5.23

Chief
CHIEF, DIVISION OF LAND DEVELOPMENT

DATE: 12.13.23

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. 28935. EXPIRATION DATE: 01/15/2025



REVISIONS				DATE
NO.	DATE	DESCRIPTION	BY	
				8/24/2023

SCALE: 1"=30'

DESIGNED BY: FFW

DRAWN BY: JDL

ZONING: RC-DED TAX MAP: 23 GRD: 23 PARCEL: 148 ELECTION DIST: 3RD

SUPPLEMENTAL PLAN SHEET
ZIEGLER PROPERTY
LOT 1 & BUILDABLE PRESERVATION
PARCEL A

DRAWING NO. ZhoWB1

SHEET 9 OF 9
KCI JOB NUMBER 271803754.97