

SOILS TABLE

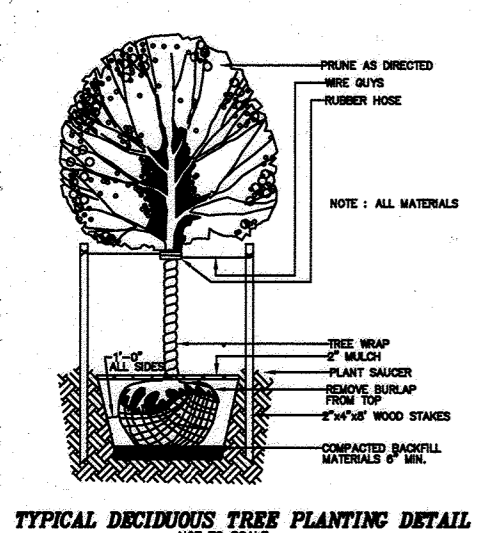
Table with 5 columns: SYMBOL, RATING, NAME, K FACTOR, SOIL MAP #. Rows include LoC (B) LEGORE-MONTALTO-URBAN LAND COMPLEX and MoB (C) MOUNT LUCAS SILT LOAN.

SHEET INDEX

Table with 2 columns: NO., NAME. Rows include 1 SITE DEVELOPMENT AND LANDSCAPE PLAN, 2 SITE DEVELOPMENT PLAN, 3 SEDIMENT CONTROL NOTES AND DETAILS.

ADDRESS CHART

Table with 2 columns: LOT, ADDRESS. Rows include 2 9307 DUNLOGGIN ROAD, 3 9301 DUNLOGGIN ROAD.



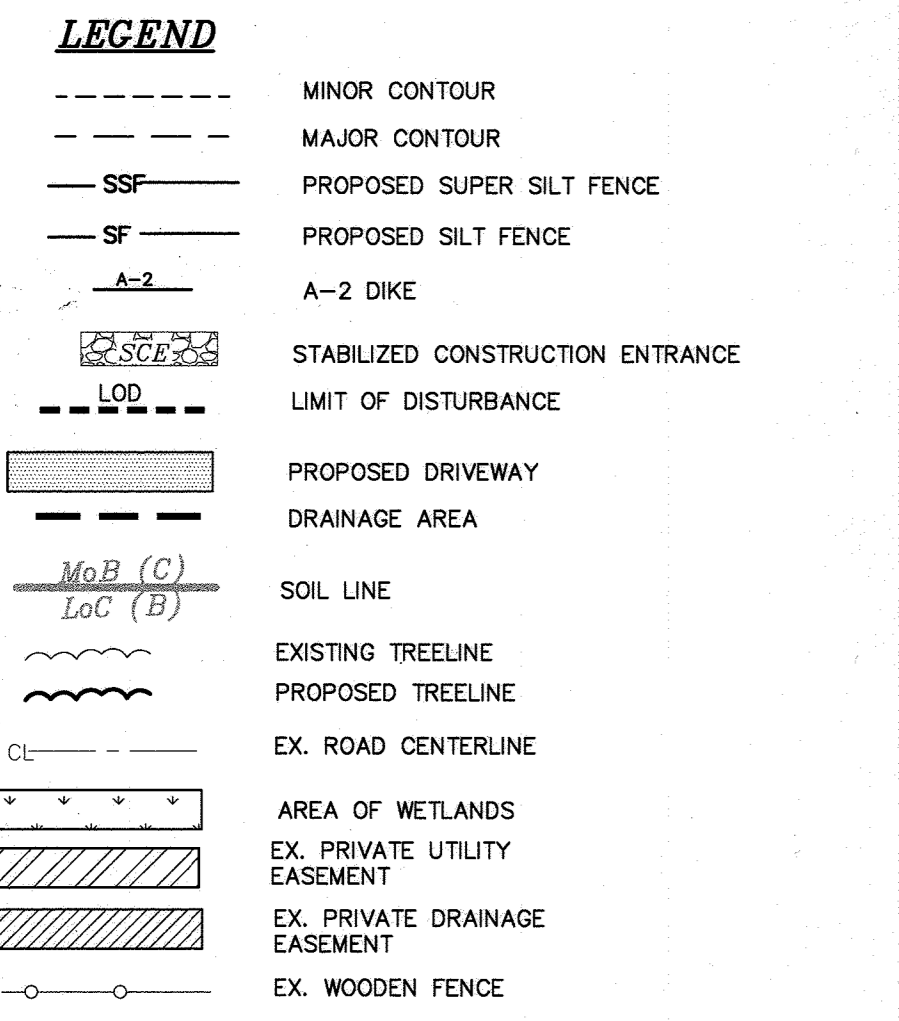
PROFESSIONAL CERTIFICATION: I hereby certify that the red line markings shown herein were prepared or approved by me, and that I am a duly licensed Professional Land Surveyor under the laws of the State of Maryland, License No. 18449, Expires 2/10/25. M. NAITZ ROSHAM, APRIL 19, 2023, MD. REG. # 11049.

SCHEDULE A: PERIMETER LANDSCAPE EDGE

Table with 5 columns: CATEGORY, ADJACENT TO PERIMETER PROPERTIES, ADJACENT TO ROADWAYS, TOTAL. Rows include LANDSCAPE TYPE, CREDIT FOR EXISTING VEGETATION, NUMBER OF PLANTS REQUIRED, etc.

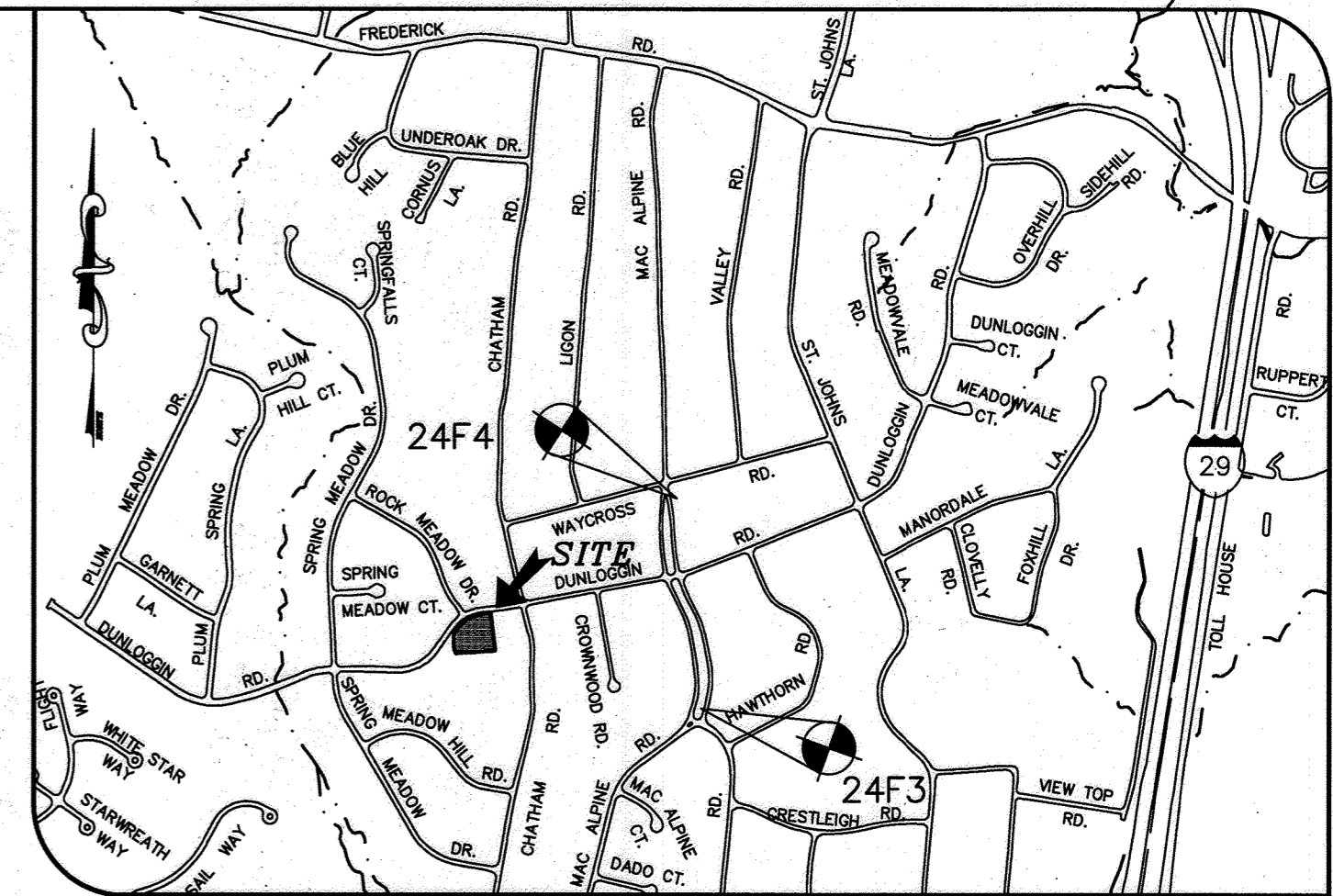
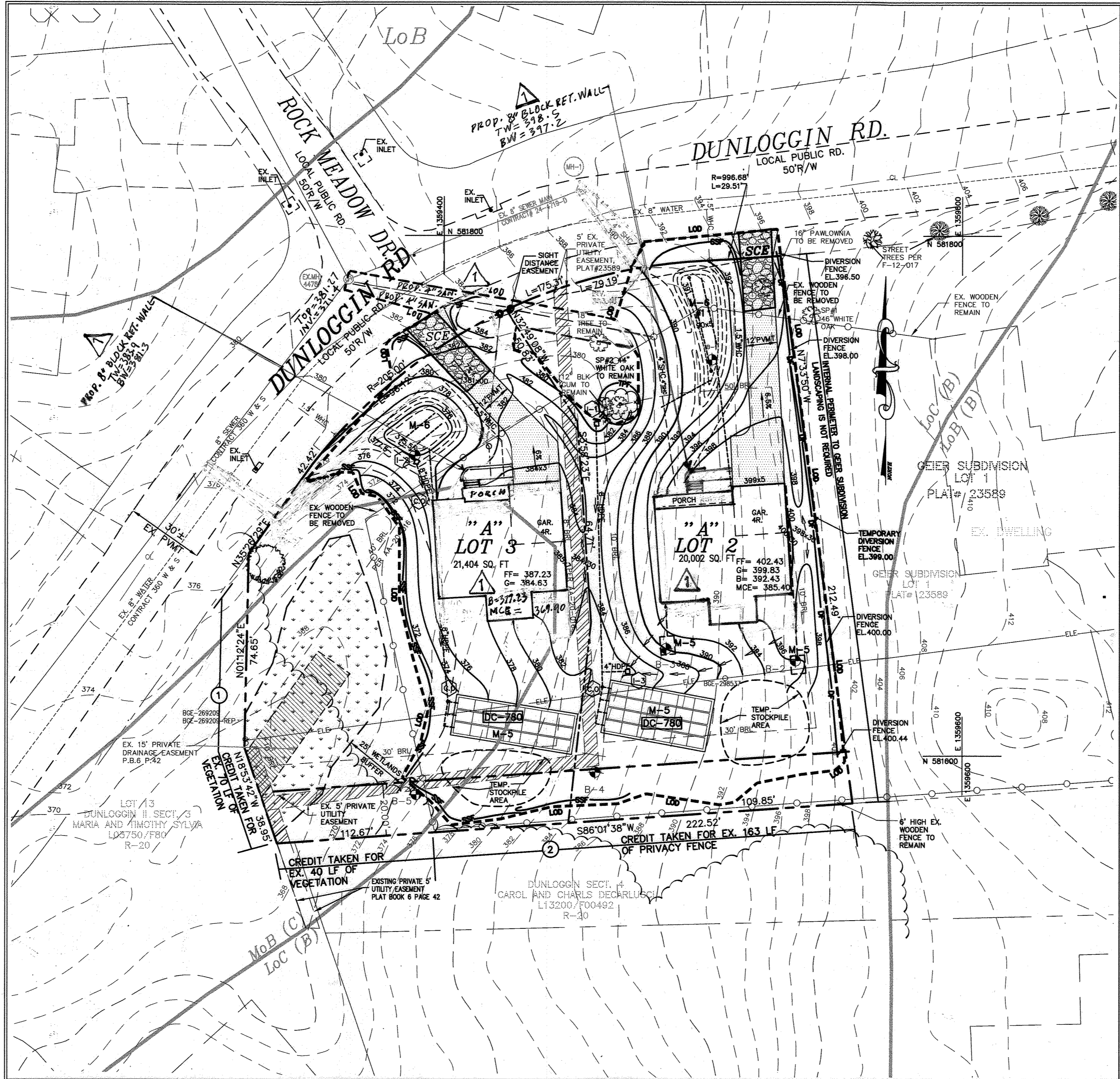
PERIMETER LANDSCAPE REQUIREMENT PLANTING SCHEDULE

Table with 4 columns: QUANTITY, SYMBOL, BOTANICAL NAME, COMMON NAME, SIZE. Row 1: 1 PRUNUS SARGENTI, SARGENT CHERRY, 2 1/2" - 3" CAL.



Geotechnical Engineering Report by G&T CONSULTANTS, INC. dated October 26, 2021. Includes site location, project description, and soil test results table.

Table with 5 columns: Boring No., Depth to Groundwater (ft), Depth to Caprock (ft), Boring Depth (ft), Remarks. Rows 1-6 showing soil test data.



GENERAL NOTES

- 1. SUBJECT PROPERTY ZONED R-20 PER THE OCTOBER 6, 2013 COMPREHENSIVE ZONING PLAN.
2. ALL ASPECTS OF THE PROJECT ARE IN CONFORMANCE WITH THE LATEST HOWARD COUNTY STANDARDS.
3. SITE ANALYSIS DATA: LOCATION: TAX MAP: 24 GRID: 16 PARCEL: 935...

DEVELOPERS CERTIFICATE: I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF ENVIRONMENT APPROVED TRAINING PROGRAM...

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

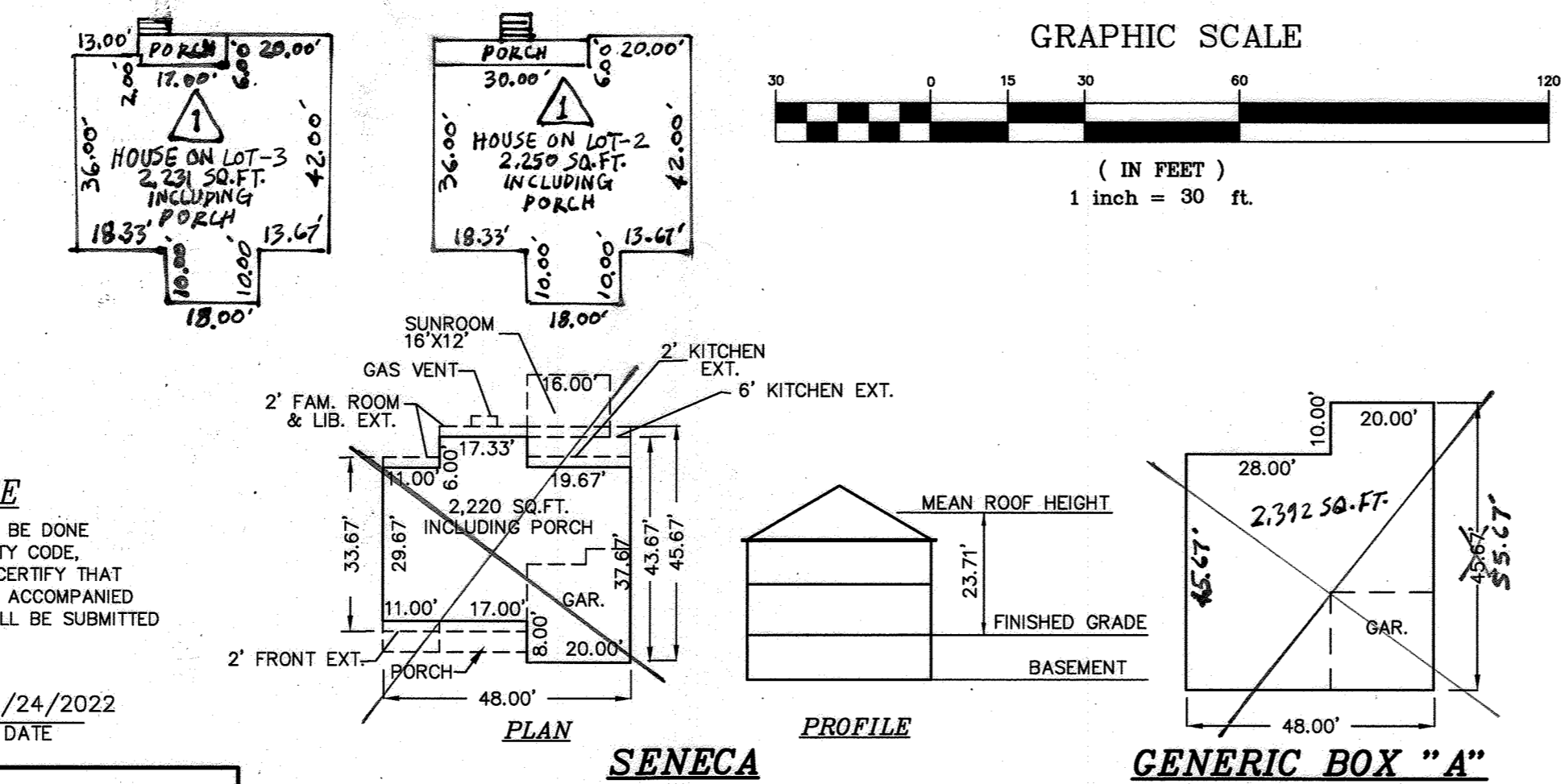
DEVELOPER'S/OWNER'S CERTIFICATE

I/WE 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/WE FURTHER CERTIFY THAT UPON COMPLETION A CERTIFICATION OF LANDSCAPE INSTALLATION, ACCOMPANIED BY AN EXECUTED ONE YEAR GUARANTEE OF PLANT MATERIALS, WILL BE SUBMITTED TO THE DEPARTMENT OF PLANNING AND ZONING.

Signature and name of developer: Kevin J. Geier, dated 02/24/2022.

Signature and name of engineer: Samer Alomer, dated 05/16/2022.

Signature and name of owner/developer: Samer Alomer, dated 05/16/2022.



- 23. THIS PROJECT IS SUBJECT TO ALTERNATIVE COMPLIANCE WP-20-116, SECTION 16.116(A)(1) OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS. THE PURPOSE IS TO ALLOW GRADING WITHIN THE 25' WETLAND BUFFER FOR THE CONSTRUCTION OF A NEW SINGLE-FAMILY DETACHED DWELLING AND ASSOCIATED IMPROVEMENT ON AN EXISTING LOT. THIS ALTERNATIVE COMPLIANCE WAS APPROVED ON JULY 15, 2021 SUBJECT TO THE FOLLOWING CONDITIONS:
1. AN ORIGINALS ONLY PLAT NEEDS TO BE SUBMITTED FOR REVIEW TO THE DIVISION OF LAND DEVELOPMENT TO SHOW THE LOT LINE ADJUSTMENT AND TO DELINEATE THE WETLAND BOUNDARY AND ASSOCIATED 25' BUFFER...

PERMIT INFORMATION BLOCK table with columns: SUBDIVISION NAME, SECTION/AREA, PARCEL, PLAT NO., BLOCK(S), ZONING, TAX MAP NO., ELECTION DISTRICT, CENSUS TRACT.

REVISIONS table with columns: NO., DESCRIPTION, DATE. Row 1: 1 UPDATED HOUSE TYPE FOR LOTS 2 & 3, REVISED S.M.C. (REDUCED OVERALL PROP. IMPERVIOUS AREA), 4/19/23.

Project information table: Project 20-014, Date 2-24-2022, Illustration MMT, Engineering MAM, Scale 1"=30', Approval SAA.

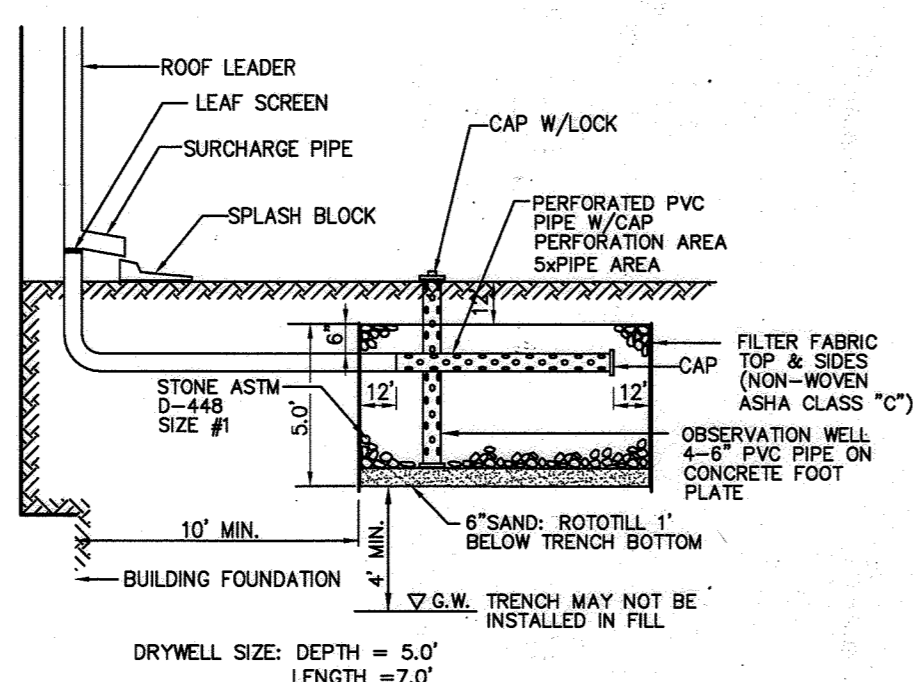
Revision table with columns: No., Description, Date, Revisions.

GEIER SUBDIVISION LOTS 2 AND 3. TAX MAP 24, PARCEL 935, GRID 16. HOWARD COUNTY, MARYLAND. SECOND ELECTION DISTRICT. SITE DEVELOPMENT AND LANDSCAPE PLAN.

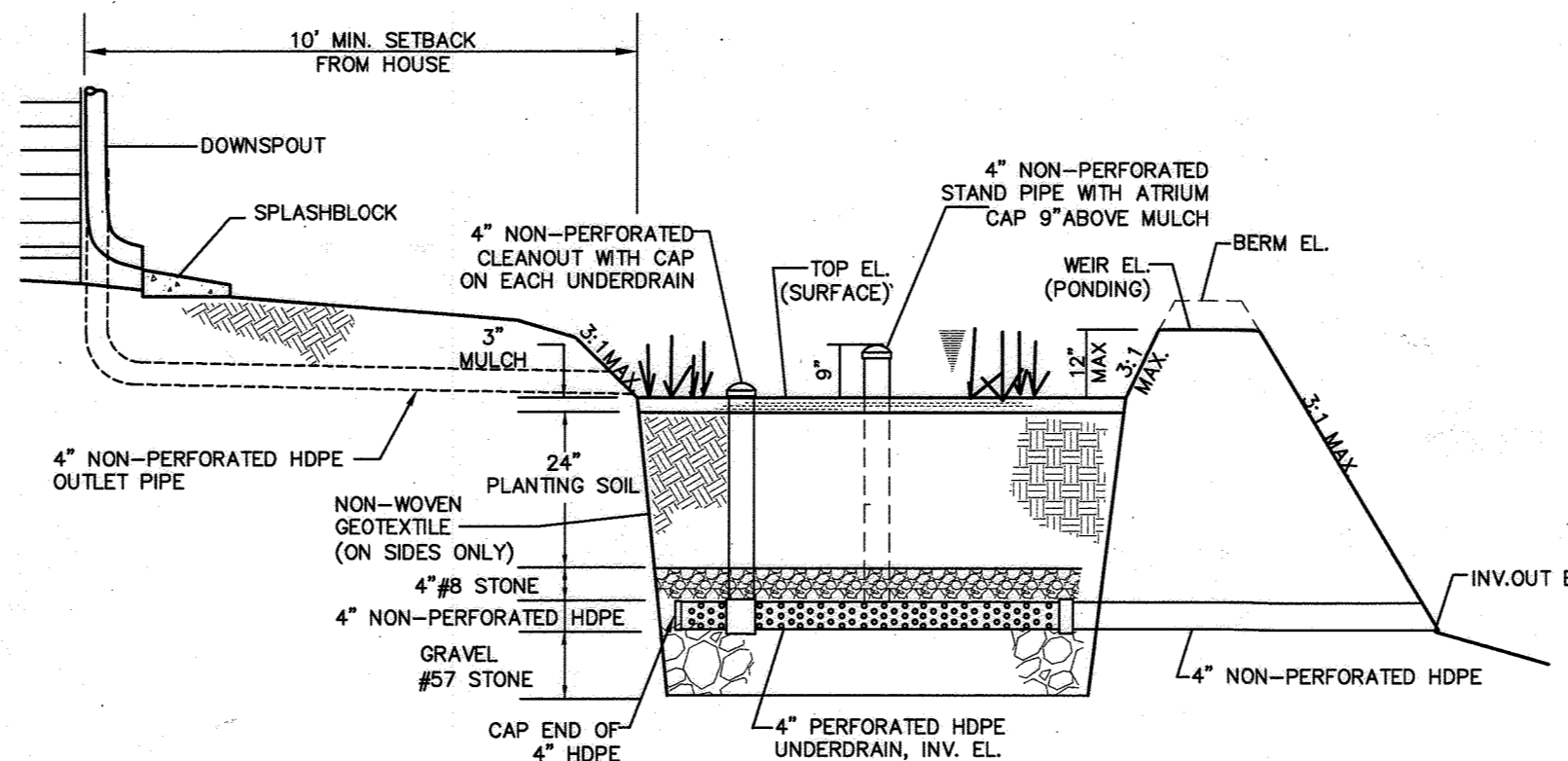
MILDENBERG, BOENDER & ASSOC., INC. Surveyors, Planners, Engineers. 8818 FOREST STREET - SUITE 300, ELLICOTT CITY, MARYLAND 21043. (410) 997-0296 Tel. (410) 997-0298 Fax.

SWM PRACTICES SCHEDULE

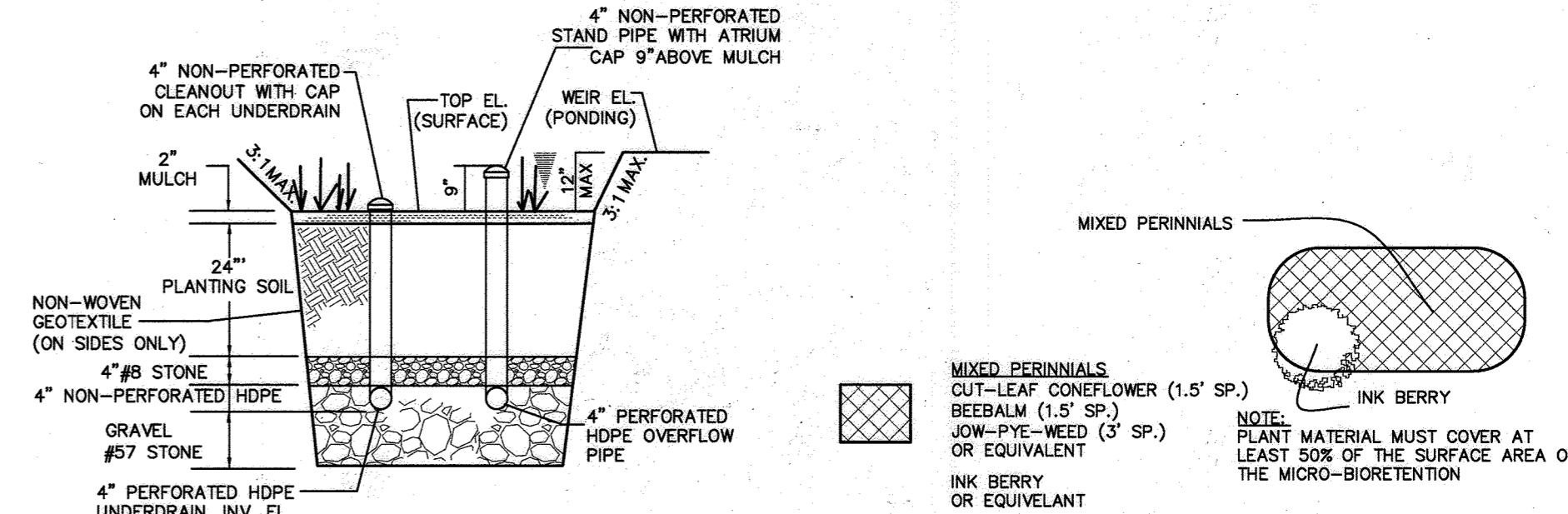
LOT #	PROPOSED PRACTICES	REQUIRED ESDV	PROVIDED ESDV
2	M-6, MICRO-BIORETENTION M-5, DRY-WELLS	241 C.F. 144 C.F.	280 C.F. 154 C.F.
3	M-6, MICRO-BIORETENTION	359 C.F.	435 C.F.



DRYWELL (M-5) TYP. DETAIL
NTS



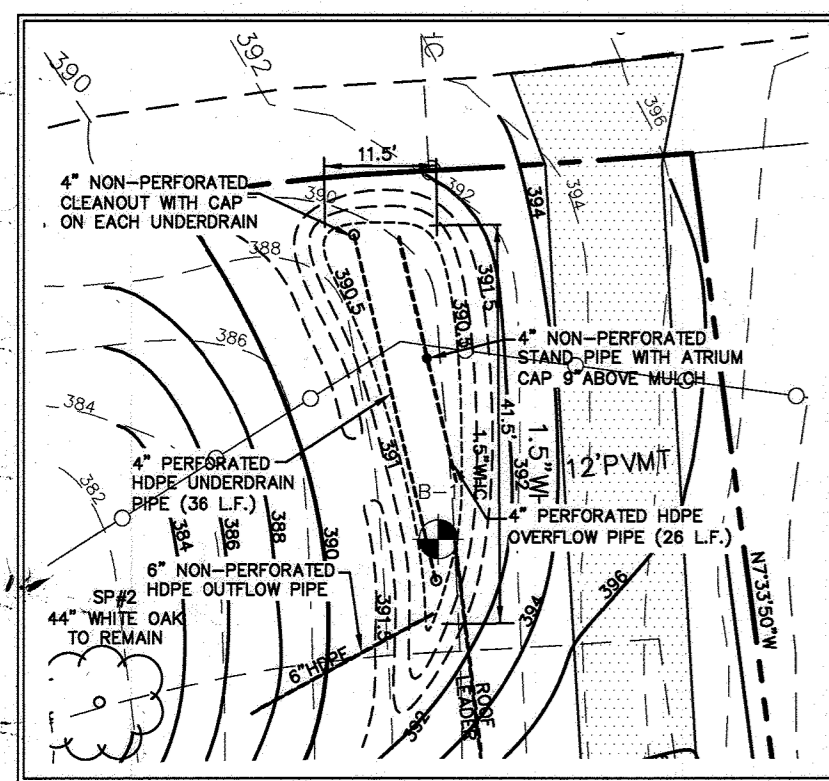
TYPICAL MICRO-BIORETENTION PROFILE
NTS



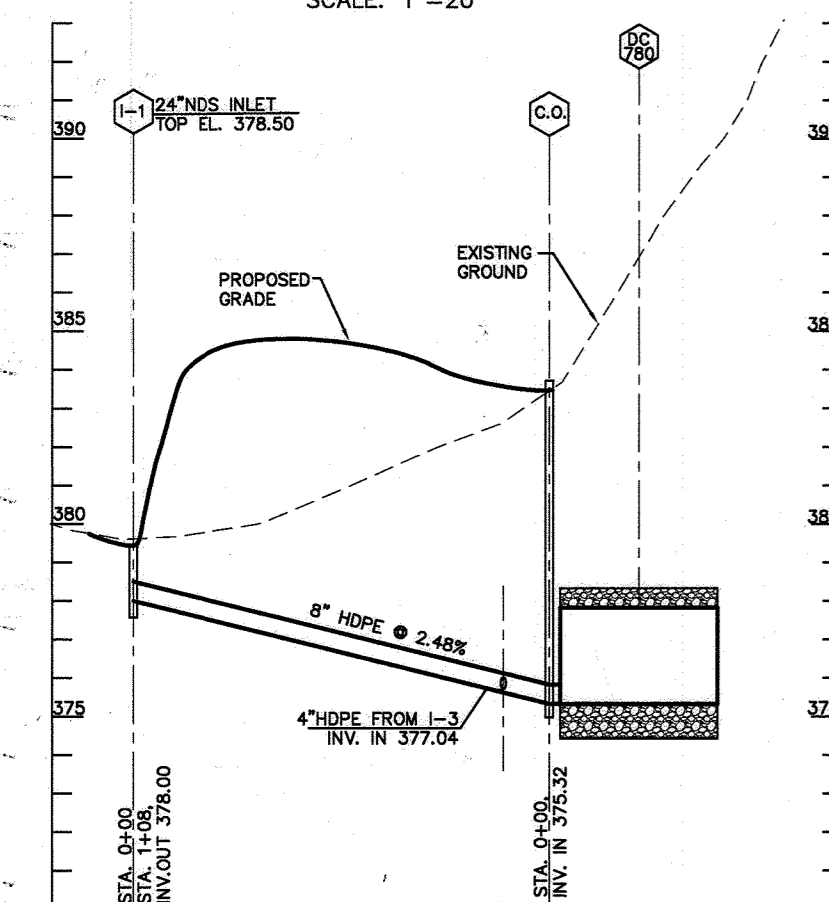
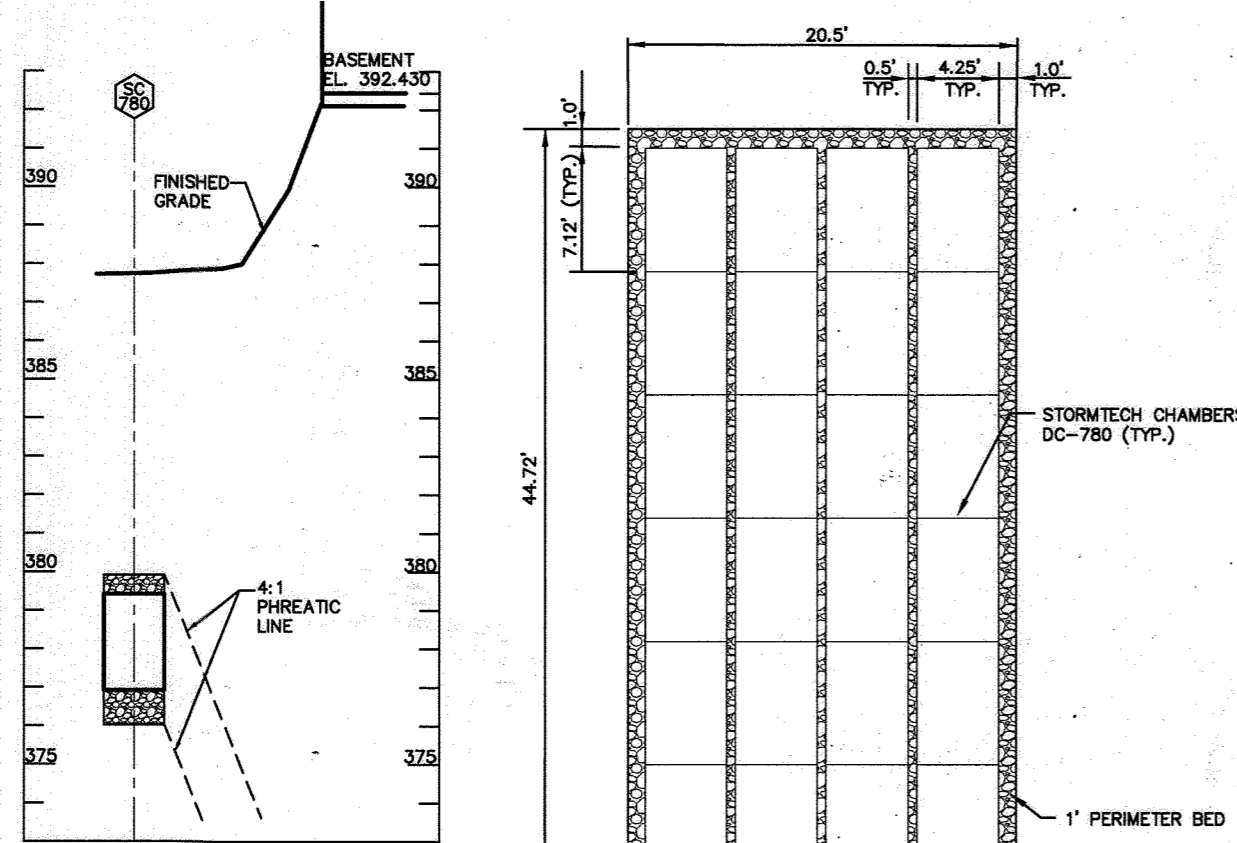
TYP. SECTION MICRO-BIORETENTION (M-6)
NTS

TYP. MICRO-BIORETENTION (M-6) DETAIL
NOT TO SCALE

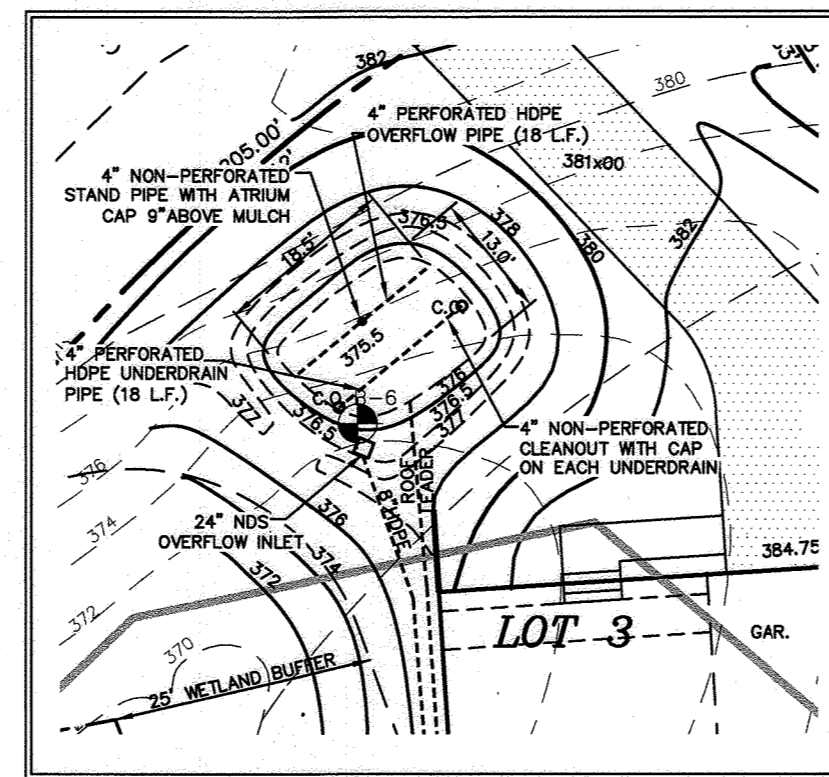
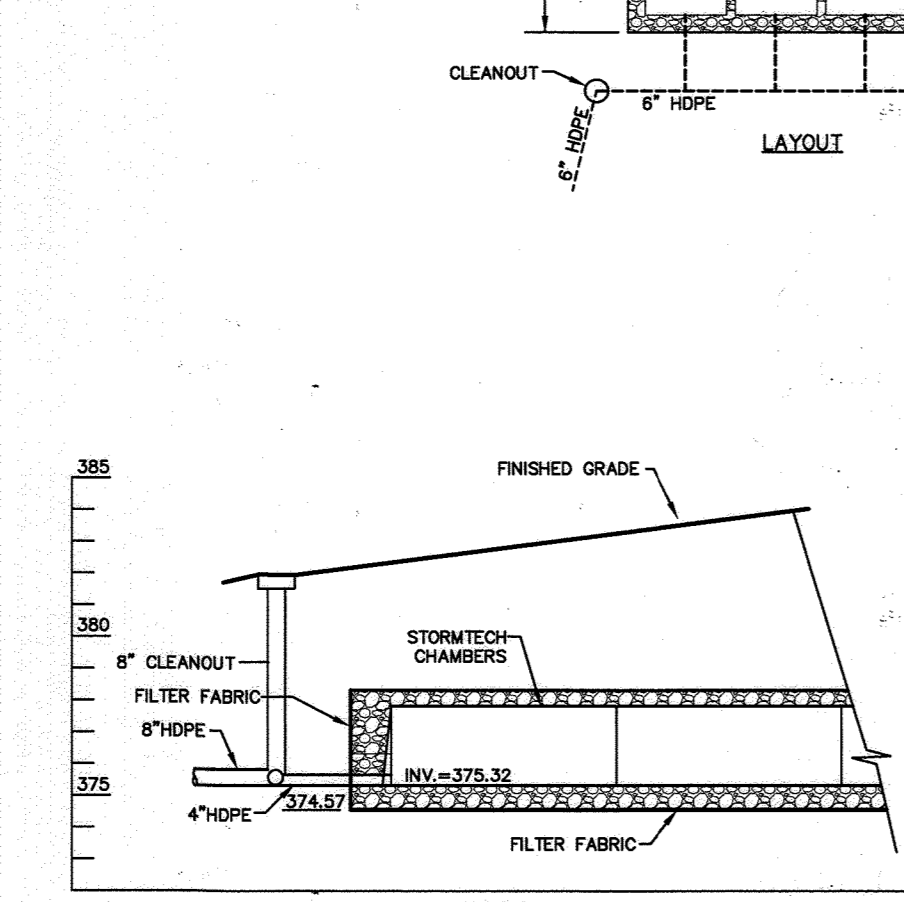
NOTE- THE ENTIRE DRAINAGE AREA MUST BE FULLY STABILIZED BEFORE RUNOFF CAN BE DIRECTED TO THE FACILITY.



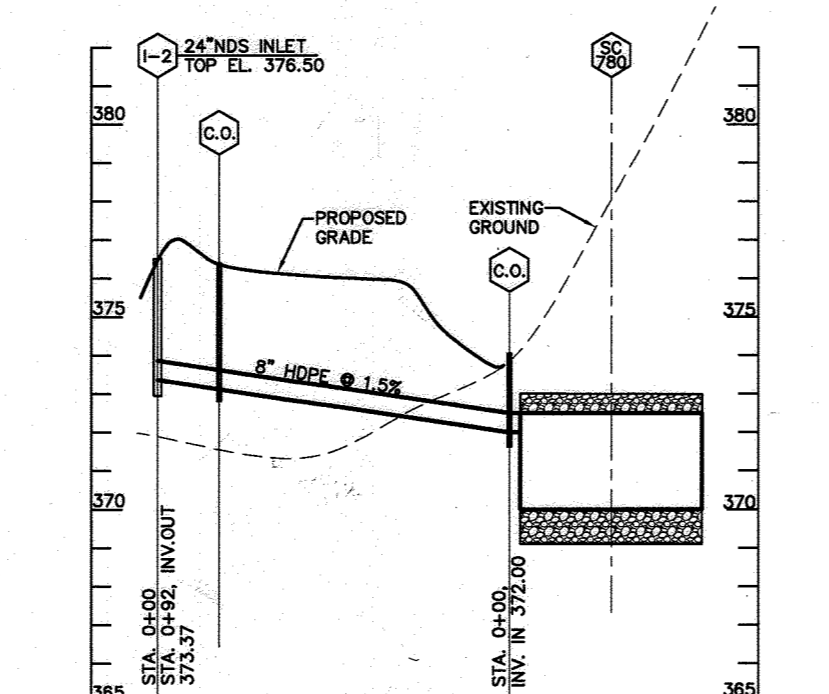
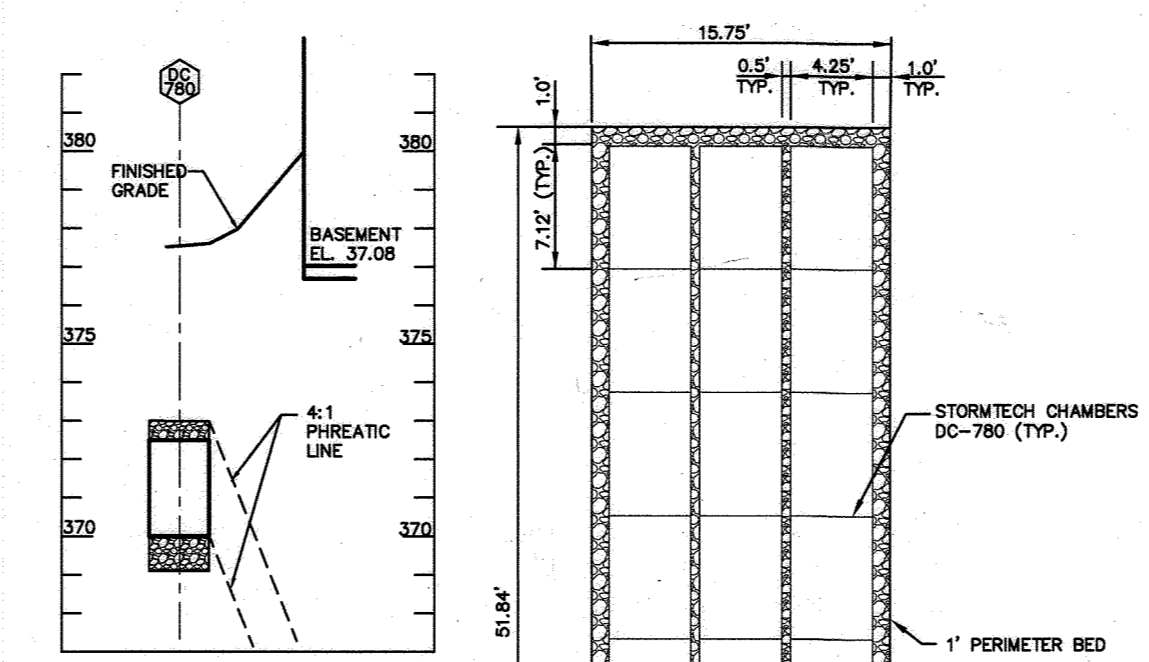
MB #1 DETAIL (LOT 2)
SCALE: 1"=20'



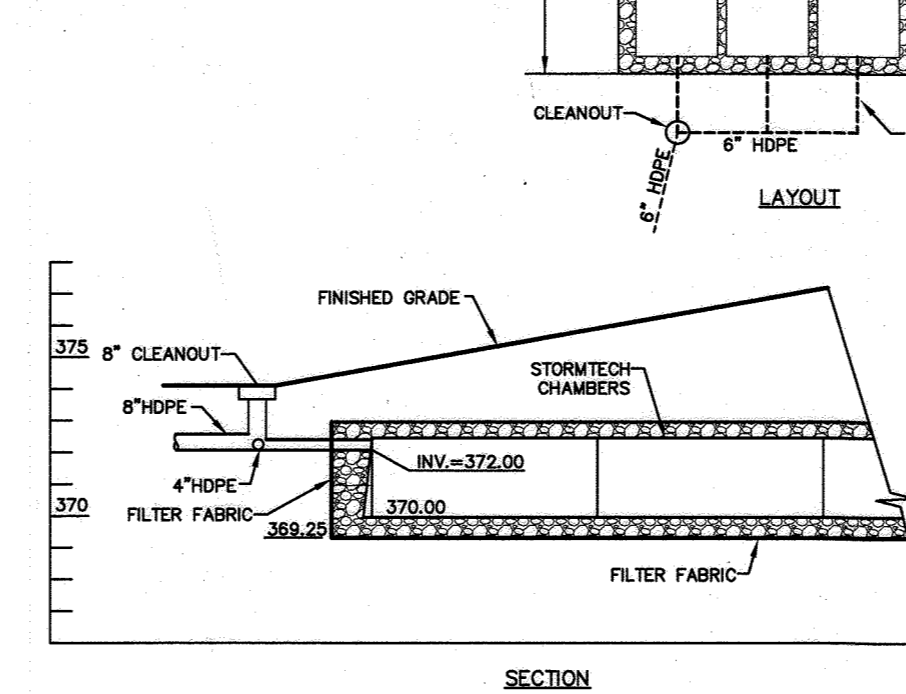
I-1 TO DC-780 PROFILE (LOT 2)
SCALE: HOR. 1"=50'
VER. 1"=5'



MB #2 DETAIL (LOT 3)
SCALE: 1"=20'



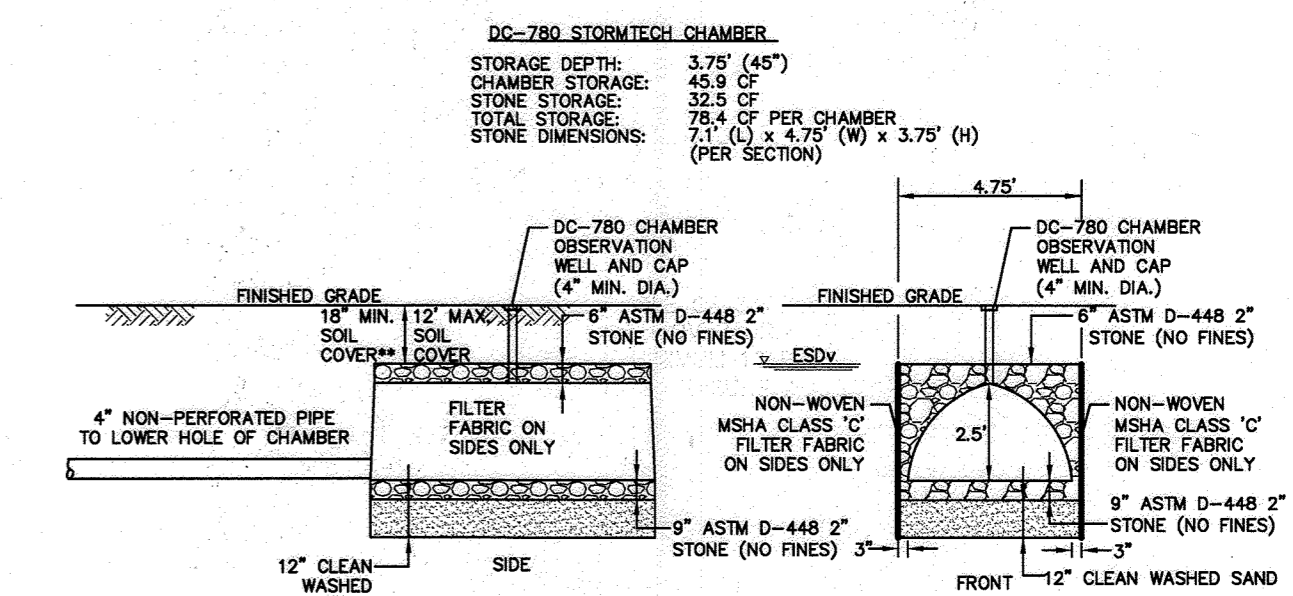
I-2 TO DC-780 PROFILE (LOT 3)
SCALE: HOR. 1"=50'
VER. 1"=5'



MODIFIED DRY WELL (M-5) STORMTECH CHAMBER 780 SYSTEM DETAIL (LOT 3)
NOT TO SCALE

MICRO-BIORETENTION DESIGN DATA

FACILITY	TOP EL. (SURFACE)	WEIR EL. (PONDING)	BERM EL.	INV. IN	INV. OUT	SURFACE AREA	PONDING AREA	PONDING DEPTH	GRAVEL DEPTH BELOW UNDERDRAIN
MB-1	390.50	391.00	391.50	387.58	396.92	300 SF	460 SF	6"	9"
MB-2	375.50	376.50	377.00	372.58	370.00	230 SF	450 SF	12"	15"



MODIFIED DRY WELL (M-5) STORMTECH CHAMBER 780 TYP. DETAIL
NOT TO SCALE

PROFESSIONAL CERTIFICATION
I hereby certify that the red line markings shown herein were prepared by me and that I am a duly licensed Professional Land Surveyor under the Laws of the State of Maryland, License # 11049, EXPIRES 2/10/25.
M. NOTES ROSSMAN
DATE
MD. REG. # 11049

NOTE: ADJUST COVER OVER CHAMBER TO ENSURE THAT THE CLEAN WASHED SAND LAYER IS NOT PLACED IN FILL.

DEVELOPERS CERTIFICATE
I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF 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 OF DEVELOPER: *Kevin J. Geier* DATE: 02/24/2022
KEVIN J. GEIER
PRINTED NAME OF DEVELOPER

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

Signed by: *Samer A. Alomer* DATE: 02/24/2022
Samer A. Alomer P.E.
SIGNATURE OF ENGINEER
SAMER A. ALOMER P.E.
PRINTED NAME OF ENGINEER

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

Disseminated by: *Alexander Bratovic* DATE: 6/1/2022
HOWARD SOIL CONSERVATION DISTRICT

APPROVED: *Kevin J. Geier* DATE: 5/31/2022
CHIEF, DEVELOPMENT ENGINEERING DIVISION
Disseminated by: *Kevin J. Geier* DATE: 6/1/2022
CHIEF, DIVISION OF LAND DEVELOPMENT
Disseminated by: *Kevin J. Geier* DATE: 6/1/2022
DIRECTOR

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

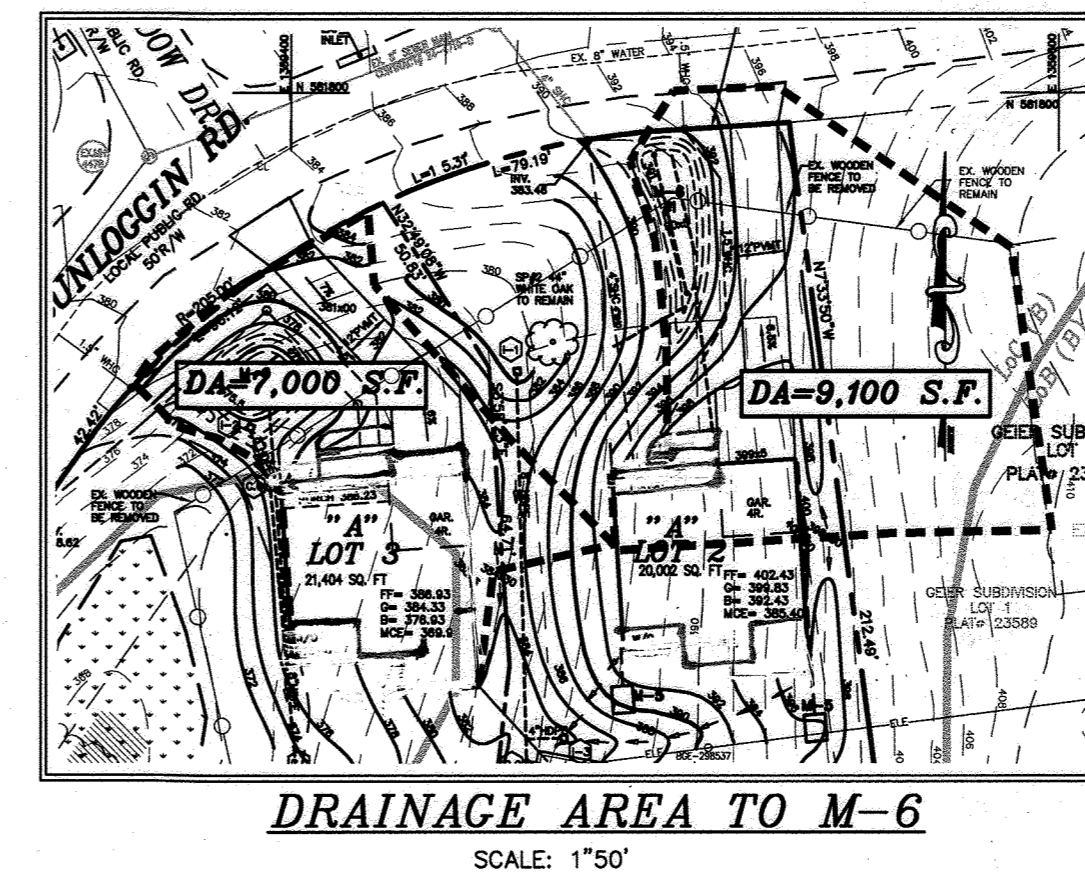
- THE OWNER SHALL INSPECT THE MONITORING WELLS AND STRUCTURES ON A QUARTERLY BASIS AND AFTER EVERY HEAVY STORM EVENT.
- THE OWNER SHALL RECORD THE WATER LEVELS AND SEDIMENT BUILD UP IN THE MONITORING WELLS OVER A PERIOD OF SEVERAL DAYS TO ENSURE TRENCH DRAINAGE.
- THE OWNER SHALL MAINTAIN A LOG BOOK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

OPERATION AND MAINTENANCE SCHEDULE FOR MICRO-BIORETENTION (M-6)

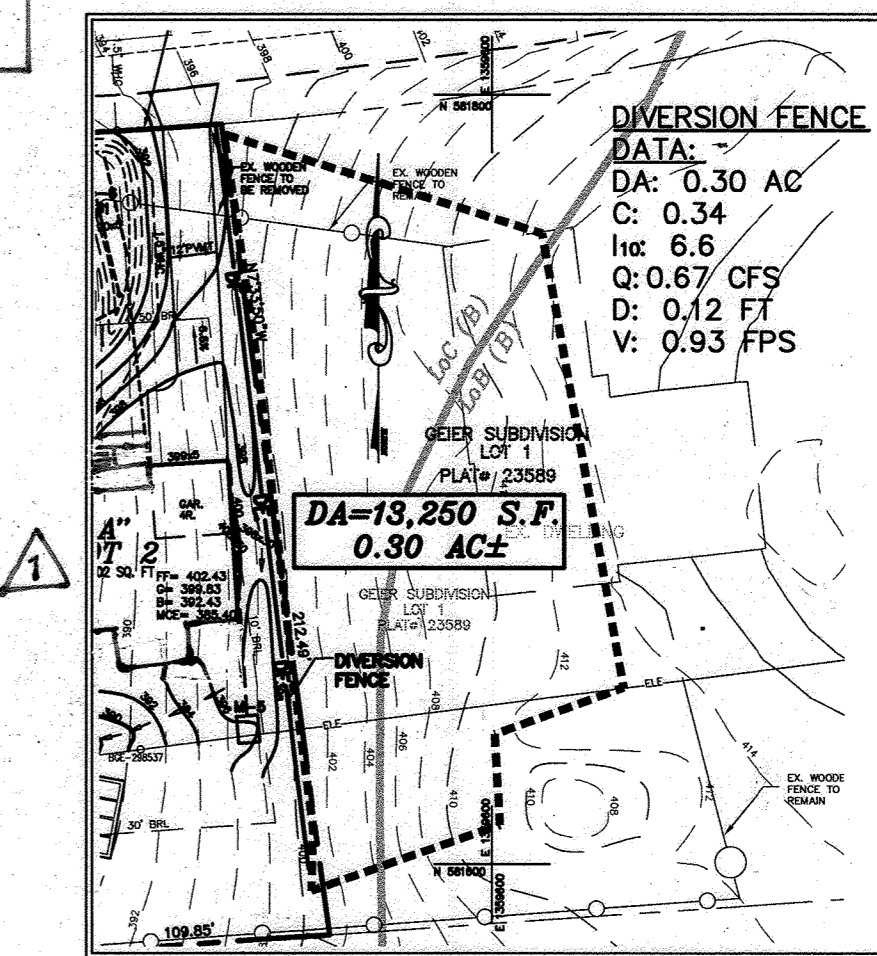
- THE OWNER SHALL MAINTAIN THE PLANT MATERIAL, MULCH LAYER AND SOIL LAYER ANNUALLY. MAINTENANCE OF MULCH AND SOIL IS LIMITED TO CORRECTING AREAS OF EROSION OR WASH OUT. ANY MULCH REPLACEMENT SHALL BE DONE IN THE SPRING. PLANT MATERIAL SHALL BE CHECKED FOR DISEASE AND INSECT INFESTATION AND MAINTENANCE 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 AND 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 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 AS NEEDED BASIS, WITH A MINIMUM OF ONCE PER MONTH AND AFTER EACH HEAVY STORM.

OWNER/DEVELOPER

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. 26859, EXP. DATE 08/08/23.
Samer Alomer
Samer Alomer
SAMER A. ALOMER, P.E.
DATE: 02/24/2022



DRAINAGE AREA TO M-6
SCALE: 1"=50'



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

REVISIONS

NO.	DESCRIPTION	DATE
1	UPDATED HOUSE TYPE FOR LOTS 2 & 3, REVISED S.H.C. (REDUCED OVERALL PROP. IMPERVIOUS AREA)	4/19/23

Project: 20-014
date: 2-24-2022
illustration: MAM
scale: MAM
approval: AS SHOWN SAA

description: 1
revisions: 1

GEIER SUBDIVISION
LOTS 2 AND 3
TAX MAP 24, PARCEL 935, GRID 16
HOWARD COUNTY, MARYLAND
SECOND ELECTION DISTRICT
SITE DEVELOPMENT PLAN

MILDENBERG, BOENDER & ASSOC., INC.
Engineers Planners Surveyors
8318 FORREST STREET - SUITE 300, ELLICOTT CITY, MARYLAND 21043
(410) 997-0296 Tel. (410) 997-0296 Fax.

