

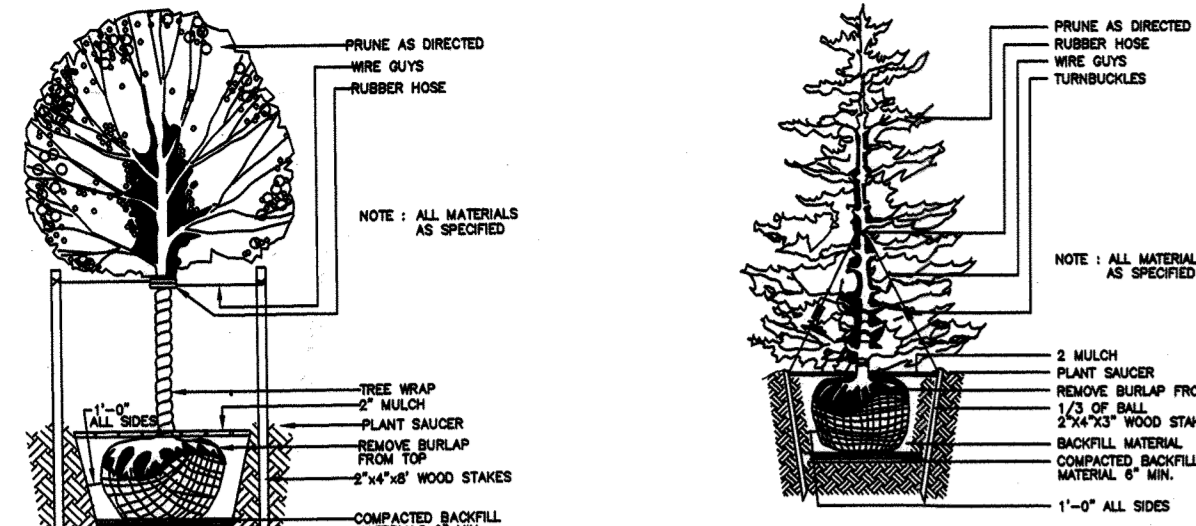
SITE DEVELOPMENT PLAN

DEVRIK MOORE & ALICIA PORTER PROPERTY

PARCEL 266

6TH ELECTION DISTRICT

HOWARD COUNTY, MARYLAND



SCHEDULE A: PERIMETER LANDSCAPE EDGE

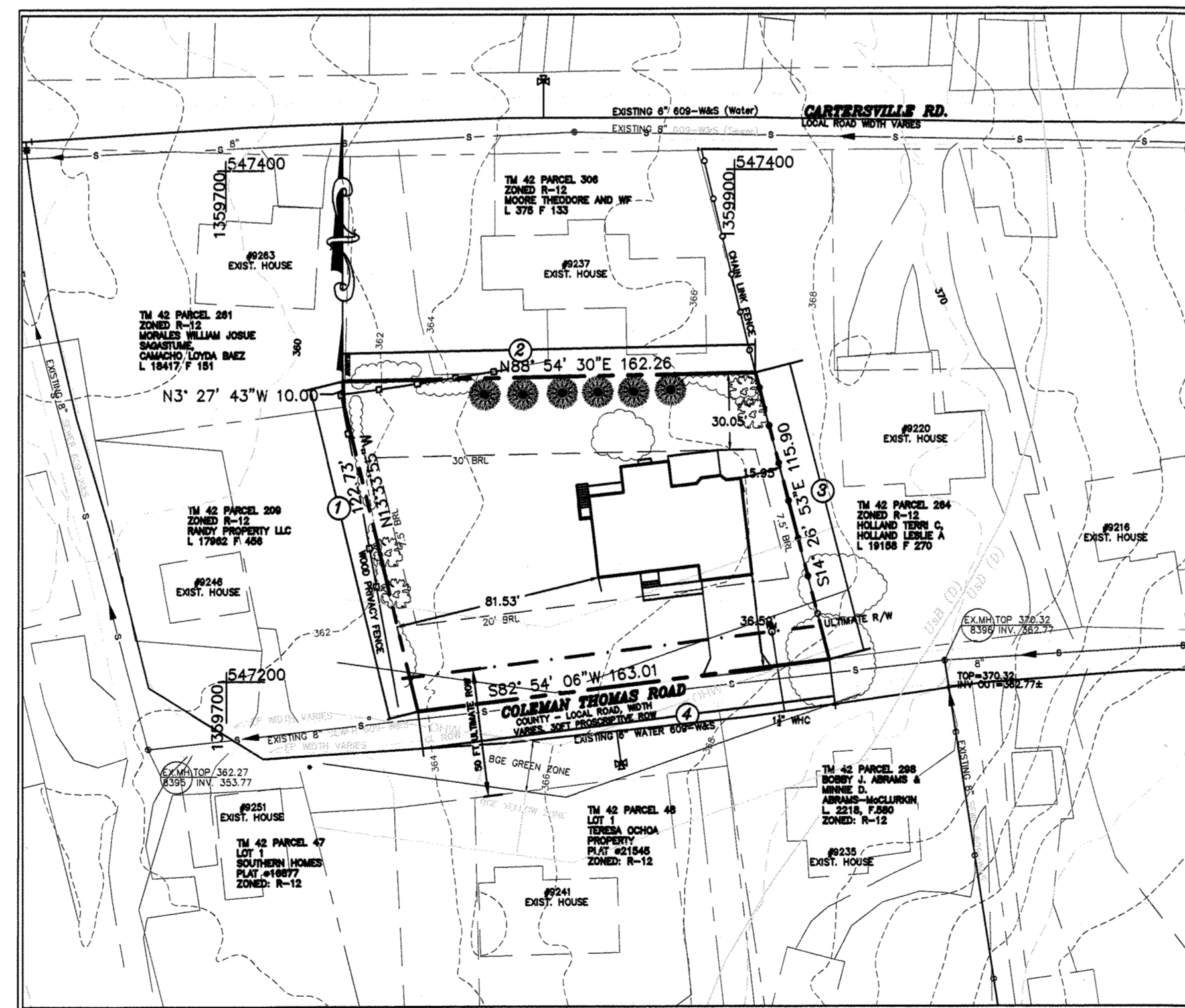
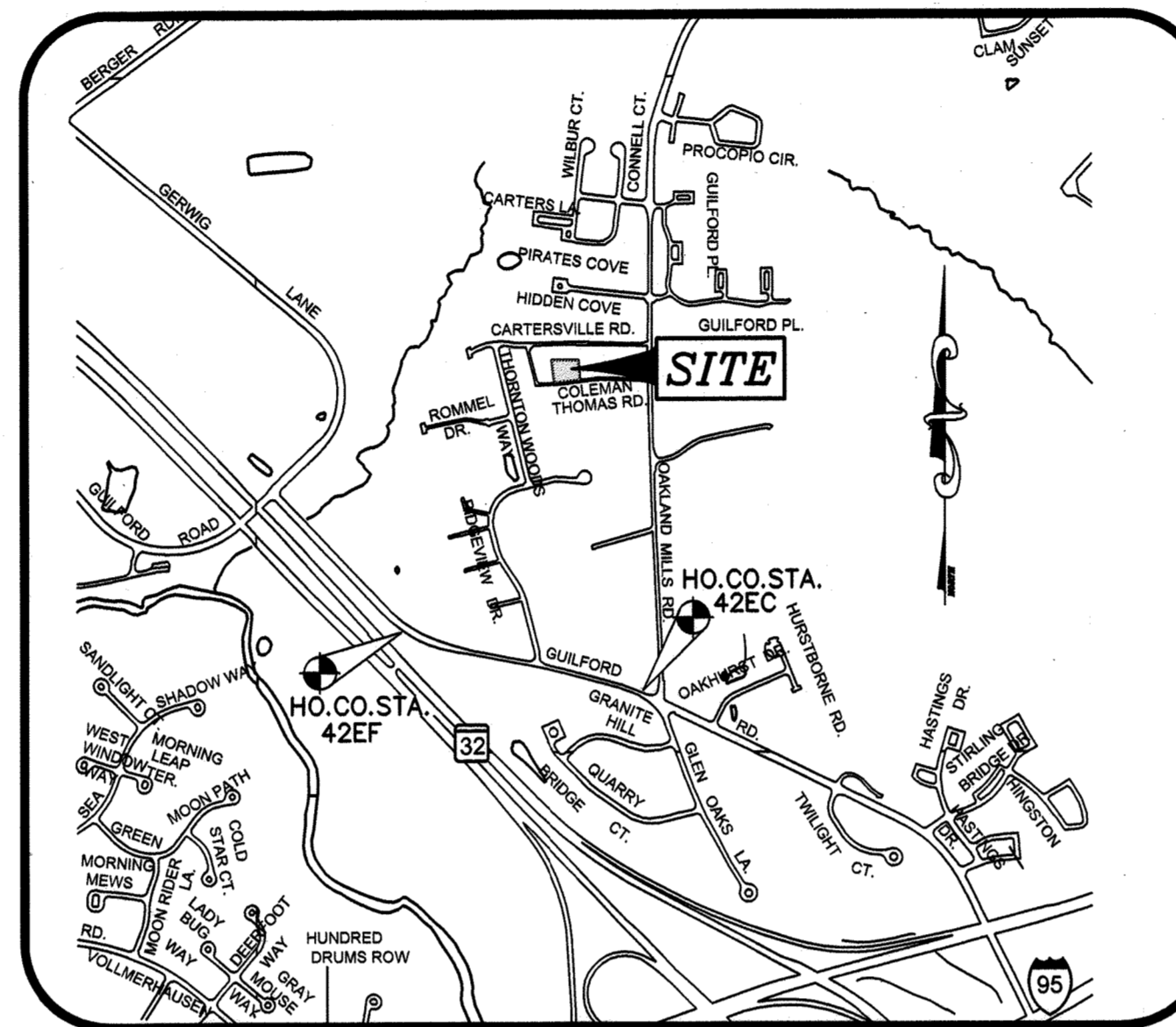
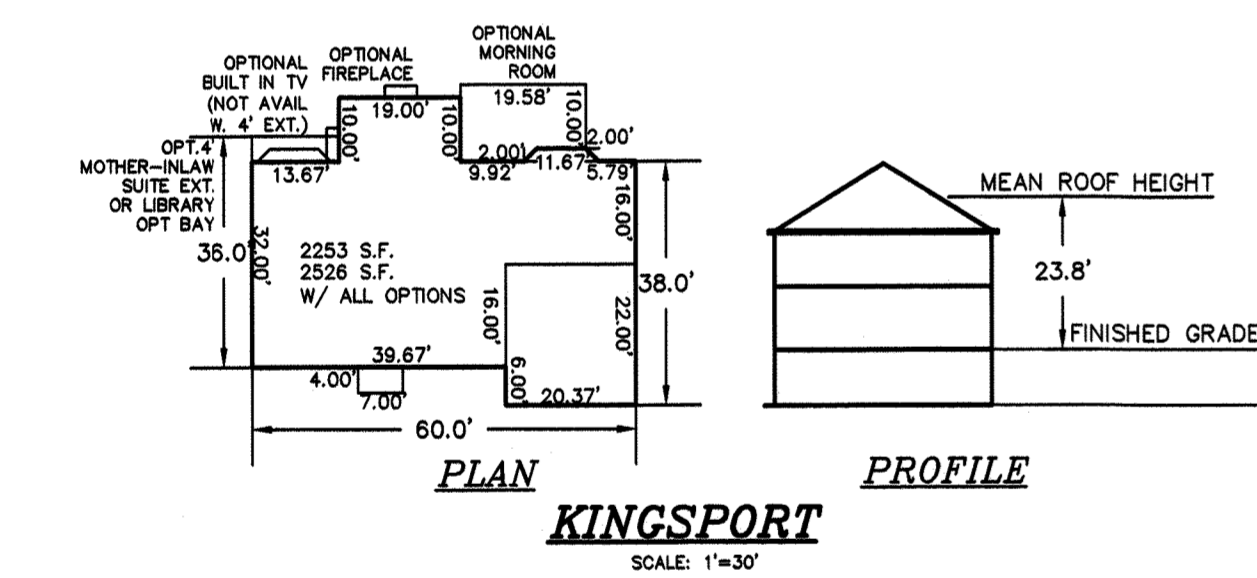
| CATEGORY | ADJACENT TO PERIMETER PROPERTIES | | | ADJACENT TO ROAD | TOTAL |
|--|----------------------------------|----------------------|----------------------|----------------------|----------------------|
| LANDSCAPE TYPE | A (PERIMETER 1)* | A (PERIMETER 2)* | A (PERIMETER 3)* | NONE (PERIMETER 4) | |
| LINEAR FEET OF PERIMETER | 133 LF | 162 LF | 116 LF | 163 LF | |
| CREDIT FOR EXISTING PRIVACY FENCE (NO, YES, LINEAR FEET) | NO | NO | NO | NO | |
| NUMBER OF PLANTS REQUIRED | | | | | |
| SHADE TREES | 2 SHADE TREES | 3 SHADE TREES | 2 SHADE TREES | 0 SHADE TREES | 7 SHADE TREES |
| EVERGREEN TREES | 0 EVERGREEN TREES | 0 EVERGREEN TREES | 0 EVERGREEN TREES | 0 EVERGREEN TREES | 0 EVERGREEN TREES |
| SHRUBS | 0 SHRUBS | 0 SHRUBS | 0 SHRUBS | 0 SHRUBS | 0 SHRUBS |
| NUMBER OF PLANTS PROVIDED | | | | | |
| SHADE TREES | 2 SHADE TREES | 0 SHADE TREES | 2 SHADE TREES | 0 SHADE TREES | 4 SHADE TREES |
| EVERGREEN TREES | 0 EVERGREEN TREES | 0 EVERGREEN TREES | 0 EVERGREEN TREES | 0 EVERGREEN TREES | 0 EVERGREEN TREES |
| OTHER TREES (2:1 SUBSTITUTION) | 0 SUBSTITUTION TREES | 0 SUBSTITUTION TREES | 0 SUBSTITUTION TREES | 0 SUBSTITUTION TREES | 0 SUBSTITUTION TREES |
| SHRUBS (10:1 SUBSTITUTION) | 0 SHRUBS | 0 SHRUBS | 0 SHRUBS | 0 SHRUBS | 0 SHRUBS |

PERIMETER LANDSCAPE REQUIREMENT PLANTING SCHEDULE

| QUANTITY | SYMBOL | BOTANICAL NAME | COMMON NAME | SIZE |
|---|--------|--|---|--------------|
| 4 | | RUBRUM "RED SUNSET" OR EQUIVALENT AS OUTLINED IN THE HOWARD COUNTY LANDSCAPE MANUAL | RED SUNSET RED MAPLE OR EQUIVALENT | 2.5"-3" CAL. |
| 6 | | CUPRESSOCYPARIS LEYLANDI OR EQUIVALENT AS OUTLINED IN THE HOWARD COUNTY LANDSCAPE MANUAL | LEYLAND CYPRESS OR EQUIVALENT AS OUTLINED IN THE HOWARD COUNTY LANDSCAPE MANUAL | 6'-8" HEIGHT |
| TOTAL 10 TREES (4 SHADE TREES, 6 EVERGREENS) | | | | |

SOIL DESCRIPTION:

| SYMBOL | RATING | NAME | K FACTOR | MAP NO. | COMMENTS |
|--------|--------|--|----------|---------|-----------------|
| UsB | D | URBAN LAND-SASSAFRAS-BELTSVILLE COMPLEX 0-5 PERCENT SLOPES | 0.37 | | HIGHLY ERODIBLE |



LEGEND

- EXISTING TREE LINE
- PROPOSED SHADE TREE
- PROPOSED EVERGREEN TREE
- EXISTING MINOR CONTOUR
- EXISTING MAJOR CONTOUR
- LANDSCAPE PERIMETER

GENERAL NOTES:

- 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 NOT PROJECT MORE THAN 4 FEET INTO ANY SETBACKS. PORCHES OR DECKS, OPEN OR ENCLOSED MAY PROJECT NOT MORE THAN 10 FEET INTO A FRONT OR REAR YARD SETBACK.
- SUBJECT PROPERTY ZONED "R-12" PER OCTOBER 6, 2013 COMPREHENSIVE ZONING REGULATIONS.
- DRIVEWAYS 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 MINIMUM REQUIREMENTS:
WIDTH - 12 FEET (16 FEET SERVING MORE THAN ONE RESIDENCE).
SURFACE - 8 INCHES OF COMPACTED CRUSHER RUN BASE WITH TAR AND CHIP COATING (1-1/2 INCH MINIMUM).
GEOMETRY - MAXIMUM 15% GRADE, MAXIMUM 10% GRADE CHANGE AND MINIMUM OF 45-FOOT TURNING RADIUS.
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.
- LANDSCAPING NOTE: THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND LANDSCAPE MANUAL. FINANCIAL SURETY IN THE AMOUNT OF \$2,100 FOR 4 SHADE TREES, 6 EVERGREEN TREES AND 0 SHRUBS WILL BE POSTED WITH THE GRADING PERMIT.
- THIS DEVELOPMENT IS EXEMPT FROM THE REQUIREMENTS OF SECTION 16.1202.b.1.1 DEVELOPMENT ACTIVITY ON A SINGLE LOT SMALLER THAN 40,000 SQUARE FEET, AS LONG AS THE CUTTING, CLEARING OR GRADING DOES NOT INCLUDE ANY AREA ALREADY SUBJECT TO A PREVIOUSLY APPROVED FOREST CONSERVATION PLAN.
- SITE ANALYSIS DATA:
LOCATION: TAX MAP: 0042, PARCEL: 266, GRID: 010, ELECTION DISTRICT: SIXTH
ADDRESS: 9240 COLEMAN THOMAS ROAD, COLUMBIA, MD 21046
DEED: LIBER 20063 FOLIO 00293 (CORRECTS LIBER 11255 FOLIO 150)
ZONING: R-12
TOTAL AREA: 0.459 AC.±, 19,984 S.F.±
AREA OF ROAD DEDICATION: 0
LIMIT OF DISTURBED AREA: 0.34 AC.±, 14,832 S.F.±
PROPOSED USE FOR SITE: SINGLE FAMILY RESIDENTIAL
TOTAL NUMBER OF UNITS: 1 PER LOT X 1 LOTS = 1 TOTAL SFD
TYPE OF PROPOSED UNIT: SFD
COUNTY FILES: ECP-21-004
PARKING REQUIRED: 2.5 SPACES. PARKING PROVIDED: 4 SPACES. 2 IN GARAGE, 2 IN DRIVEWAY.
- COORDINATES BASED ON NAD83 / NAVD88 MARYLAND COORDINATE SYSTEM AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS 42EC AND 42EF.
STA. NO. 42EC N 545,416.990, E 1,360,140.442, EL. 365.383
STA. NO. 42EF N 545,623.351, E 1,359,044.500, EL. 347.010
- THE EXISTING TOPOGRAPHY IS TAKEN FROM FIELD RUN SURVEY WITH MAXIMUM TWO FOOT CONTOUR INTERVALS PREPARED BY MILDENBERG, BOENDER & ASSOC. INC. PERFORMED ON OR ABOUT JULY 2020.
- NO WETLANDS, FLOODPLAIN, STREAMS OR THEIR BUFFERS OR STEEP SLOPES EXIST ON OR IMPACT THIS PARCEL.
- THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST 48 HOURS PRIOR TO EXCAVATION WORK BEING DONE.
MISS UTILITY: 800-257-7777 (410) 725-9976
VERIZON TELEPHONE COMPANY: (410) 313-4900
HOWARD COUNTY BUREAU OF UTILITIES: (410) 393-3533
AT&T CABLE LOCATION DIVISION: (410) 685-0123
BALTIMORE GAS & ELECTRIC STATE HIGHWAY ADMINISTRATION: (410) 531-5533
- THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/CONSTRUCTION INSPECTIONS AT (410) 313-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK.
- EXISTING UTILITIES ARE BASED ON ACTUAL FIELD LOCATIONS, IN COMBINATION WITH EXISTING WATER AND SEWER CONTRACTS.
- ANY DAMAGE TO THE COUNTY RIGHT-OF-WAY SHALL BE CORRECTED AT THE DEVELOPER'S EXPENSE.
- SEWER HOUSE CONNECTION ELEVATIONS SHOWN ARE LOCATED AT THE PROPERTY LINE.
- FOR DRIVEWAY ENTRANCE DETAILS, REFER TO HOWARD COUNTY DESIGN MANUAL, VOLUME IV, STANDARD DETAIL R-6.06.
- NO CEMETERIES OR HISTORIC STRUCTURES EXIST ON SITE.
- PROPERTY IS LOCATED WITHIN THE METROPOLITAN DISTRICT. PUBLIC WATER AND SEWER WILL BE UTILIZED UNDER CONTRACT NUMBER: 609 (WATER & SEWER).
- STORMWATER MANAGEMENT IS PROVIDED VIA MICRO-BIOTENTION FACILITIES (M-B), IN ACCORDANCE WITH THE 2006 MDE STORMWATER DESIGN MANUAL REVISED MAY 2009.
- ENVIRONMENTAL CONCEPT PLAN, ECP-21-004, FOR THIS PARCEL WAS APPROVED ON NOV. 18, 2020.
- 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 LANDSCAPING SHALL BE PERMANENTLY MAINTAINED IN GOOD CONDITION, AND WHEN NECESSARY, REPAIRED OR REPLACED.
- 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 LANDSCAPE 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.
- SHOULD ANY TREE DESIGNATED FOR PRESERVATION, FOR WHICH LANDSCAPING CREDIT IS GIVEN, DIE PRIOR TO RELEASE OF BONDS, THE OWNER WILL BE REQUIRED TO REPLACE THE TREE WITH THE EQUIVALENT SPECIES OR WITH A TREE WHICH WILL OBTAIN THE SAME HEIGHT, SPREAD, AND GROWTH CHARACTERISTICS. THE REPLACEMENT TREE MUST BE A MINIMUM OF 2 1/2 TO 3 INCHES IN CALIPER AND INSTALLED AS REQUIRED IN THE LANDSCAPE MANUAL.

MIHU ALLOCATIONS AND EXEMPTIONS TRACKING CHART

| DESCRIPTION | QUANTITY |
|--|----------|
| TOTAL NUMBER OF LOTS/UNITS | 1 |
| NUMBER OF MIHU REQUIRED | 0 |
| NUMBER OF MIHU PROVIDED ON-SITE (EXEMPT FROM APFO ALLOCATIONS) | 0 |
| NUMBER OF APFO ALLOCATION REQUIRED (REMAINING LOTS/UNITS) | 0 |
| MIHU FEE-IN-LIEU (INDICATED LOT/UNIT NUMBERS) | 0 |

PARCEL 266 IN THIS PROJECT IS NOT SUBJECT TO THE MODERATE INCOME HOUSING UNIT (MIHU) FEE-IN-LIEU REQUIREMENT. THERE ARE NO ALLOCATIONS REQUIRED AS THIS IS AN EXISTING PARCEL, AND NO MIHU REQUIRED AS THERE IS NO SUBDIVISION.

OWNER/DEVELOPER

DEVRIK MOORE
ALICIA PORTER
1707 BLARNEY COURT
SEVERN, MD 21144
240-319-9825

INDEX OF DRAWINGS

| NO. | DESCRIPTION |
|-----|------------------------------------|
| 1 | SITE DEVELOPMENT & LANDSCAPE PLAN |
| 2 | STORMWATER MANAGEMENT DETAILS |
| 3 | SEDIMENT CONTROL NOTES AND DETAILS |

PERMIT INFORMATION BLOCK

| SUBDIVISION NAME: | SECTION/AREA: | PARCEL: | | | |
|-------------------|---------------|---------|-------------|-------------------|--------------|
| | N/A | 266 | | | |
| PLAT NO. | BLOCK(S) | ZONING | TAX MAP NO. | ELECTION DISTRICT | CENSUS TRACT |
| | | R-12 | 42 | SIXTH | 606707 |

DEVELOPER'S 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 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.

Alicia Porter 5/11/2021
SIGNATURE OF DEVELOPER DATE

Alicia Porter
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.

Michael G. Kretsch 5/11/2021
SIGNATURE OF ENGINEER DATE

MICHAEL G. KRETSCSCH, P.E.
PRINTED NAME OF ENGINEER

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.

Alicia Porter 5/11/2021
SIGNATURE DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONING
CHIEF, DEVELOPMENT ENGINEERING DIVISION 5/20/21 DATE
CHIEF, DIVISION OF LAND DEVELOPMENT 5/20/21 DATE
DIRECTOR 5/27/21 DATE

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. 34027, EXP DATE 01/16/2023

Michael G. Kretsch 5/11/2021
SIGNATURE DATE

MICHAEL G. KRETSCSCH, P.E.
PRINTED NAME OF ENGINEER

ADDRESS CHART

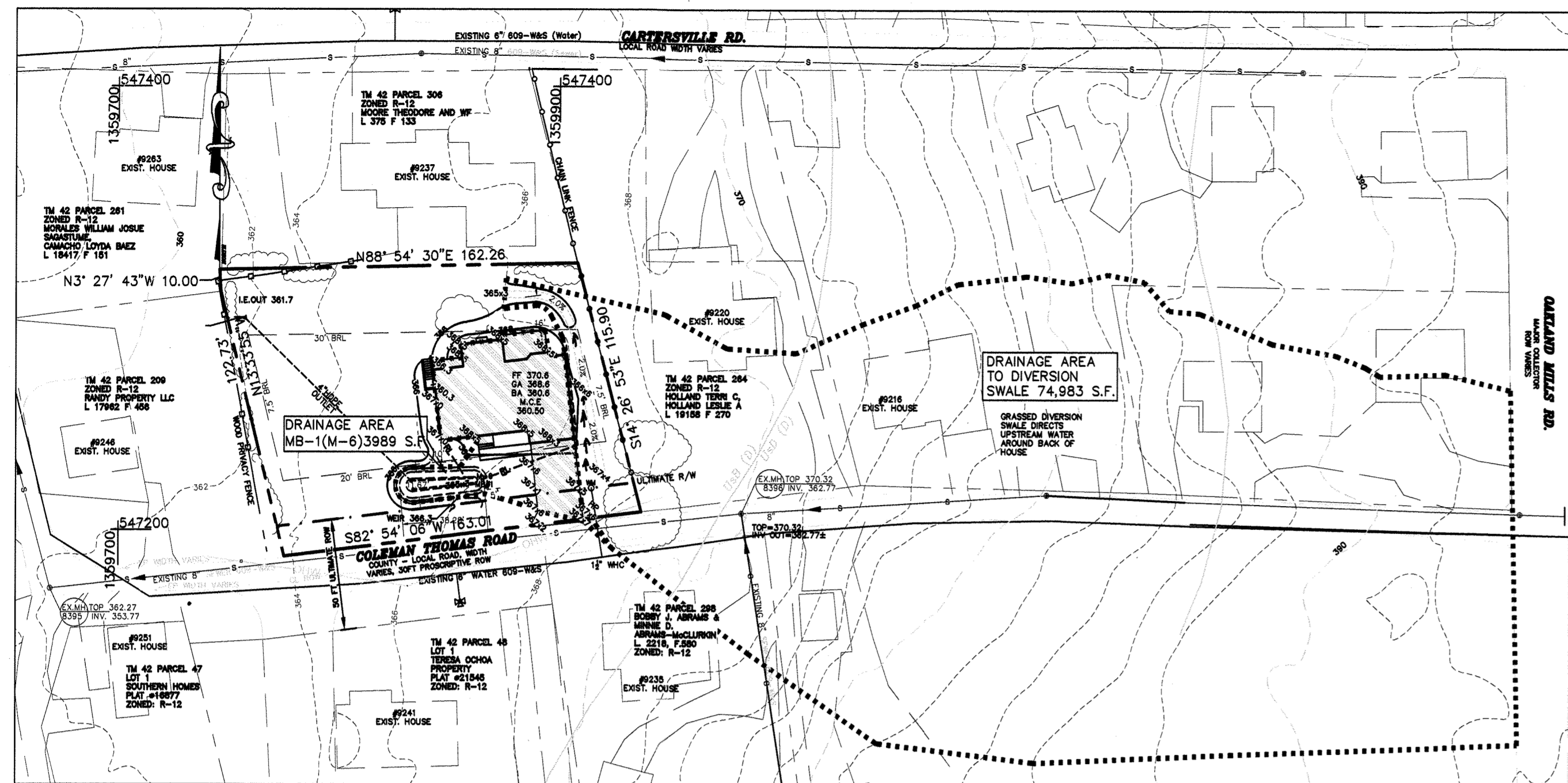
| ADDRESS |
|---|
| P.266 9240 COLEMAN THOMAS ROAD, COLUMBIA, 21046 |

project: 20-019
date: APR 2021
illustration: MGK
approval: SAA
scale: 1" = 50'

DEVRIK MOORE & ALICIA PORTER PROPERTY
TAX MAP: 42 - PARCEL: 266 - GRID 010
SIXTH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
SITE DEVELOPMENT AND LANDSCAPE PLAN

MILDENBERG, BOENDER & ASSOC., INC.
Engineers Planners Surveyors
7850-B Grace Drive, Columbia, Maryland 21044
(410) 997-0296 Tel. (410) 997-0298 Fax

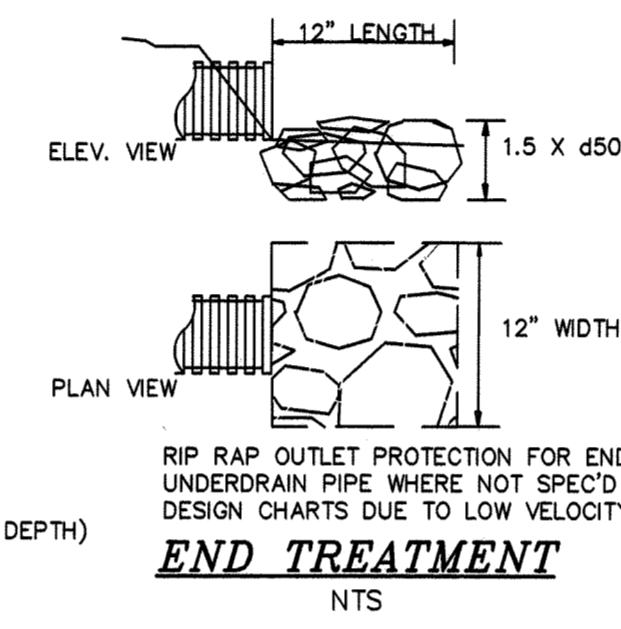
1 OF 3
SDP 21-020



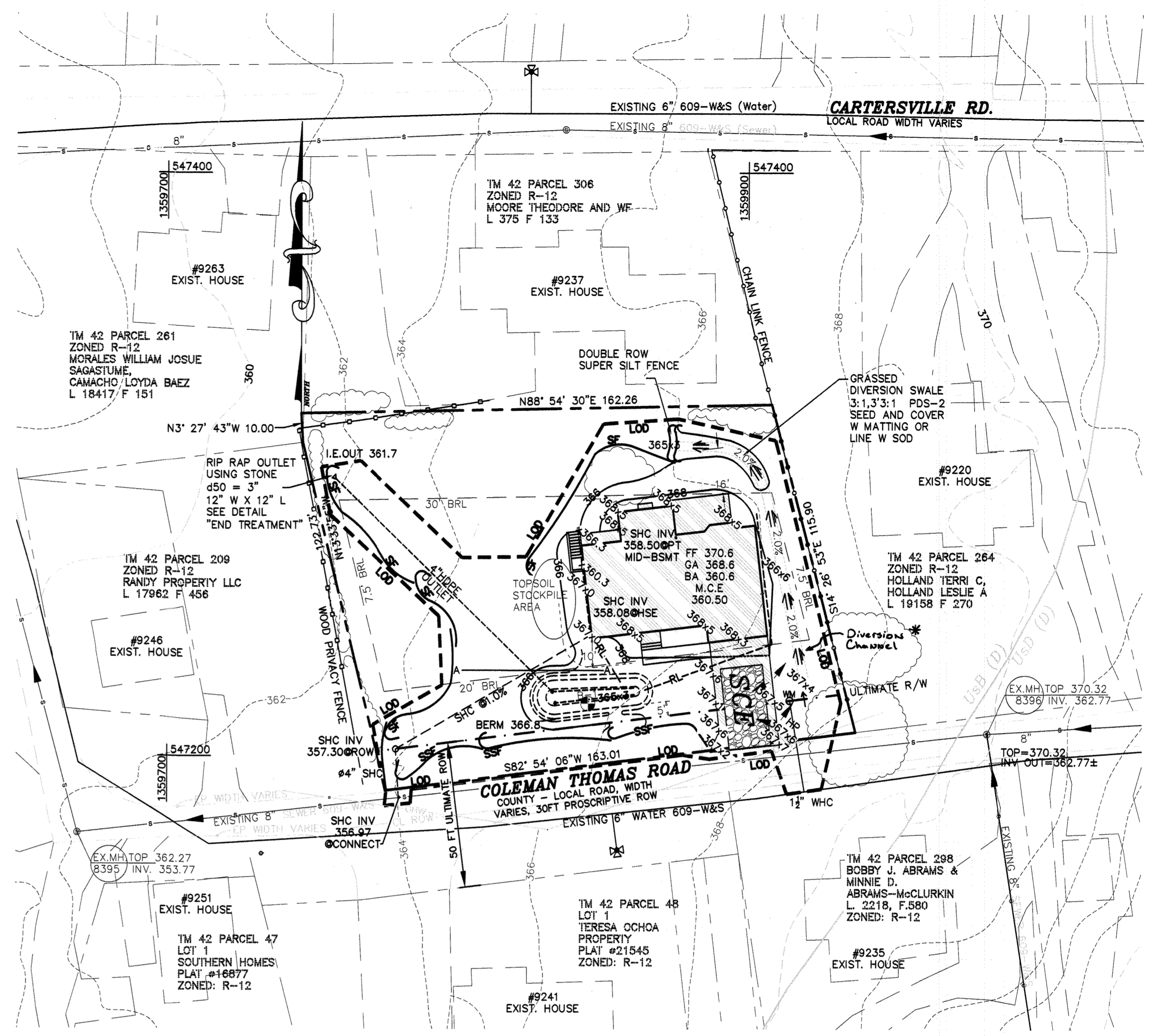
Drainage Area Map
1" = 50 FT

LEGEND

- MICRO-BIORETENTION
- SILT FENCE
- SUPER SILT FENCE
- OUTLET PIPE
- LIMIT OF DISTURBANCE
- ROOF LEADER
- DRAINAGE AREA
- PROPOSED MINOR (2') CONTOUR
- PROPOSED MAJOR (10') CONTOUR
- EXISTING MINOR (2') CONTOUR
- EXISTING MAJOR (10') CONTOUR
- IMPERVIOUS AREA TREATED BY MICRO-BIORETENTION (M-6)
- EXISTING TREELINE
- STABILIZED CONSTRUCTION ENTRANCE
- PERMANENT GRASSED DIVERSION SWALE - PDS-2
- B-1 = BORING LOCATION, N 547,218.0, E 1,358,843.0
- MICRO-BIORETENTION SETBACK

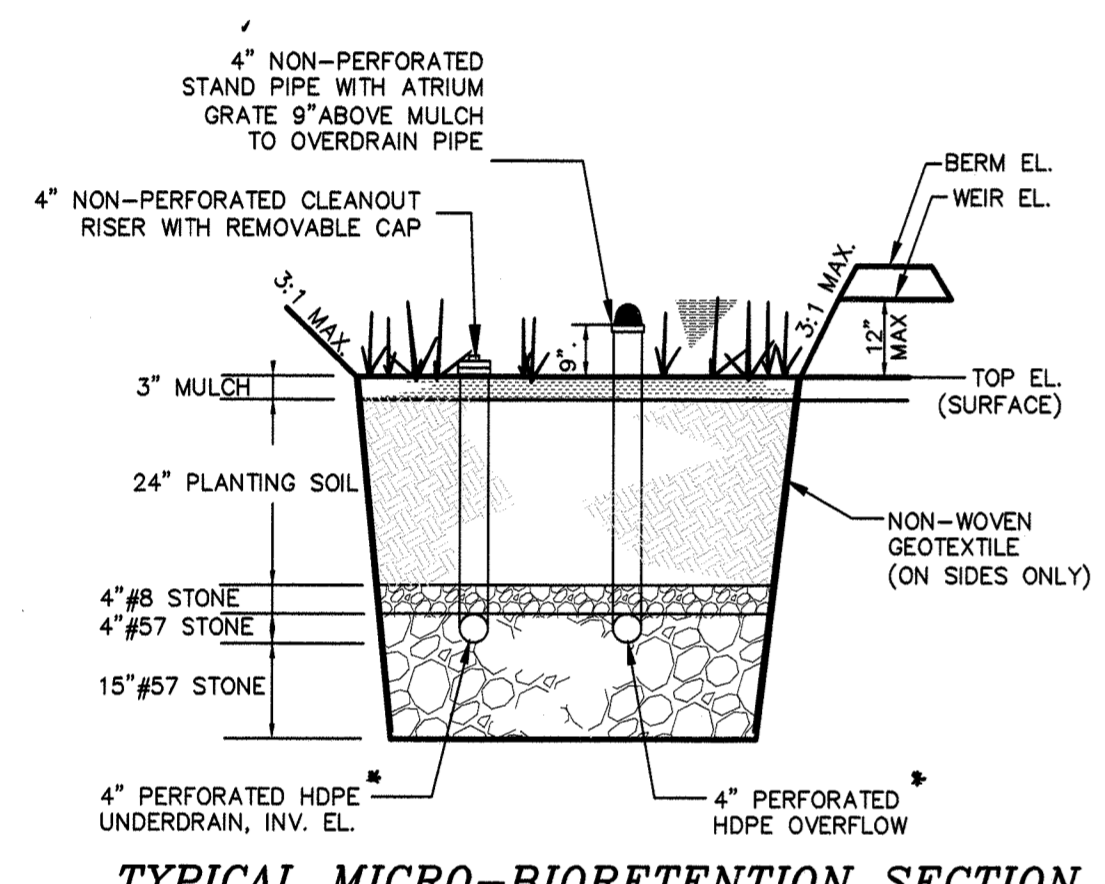


END TREATMENT
NTS



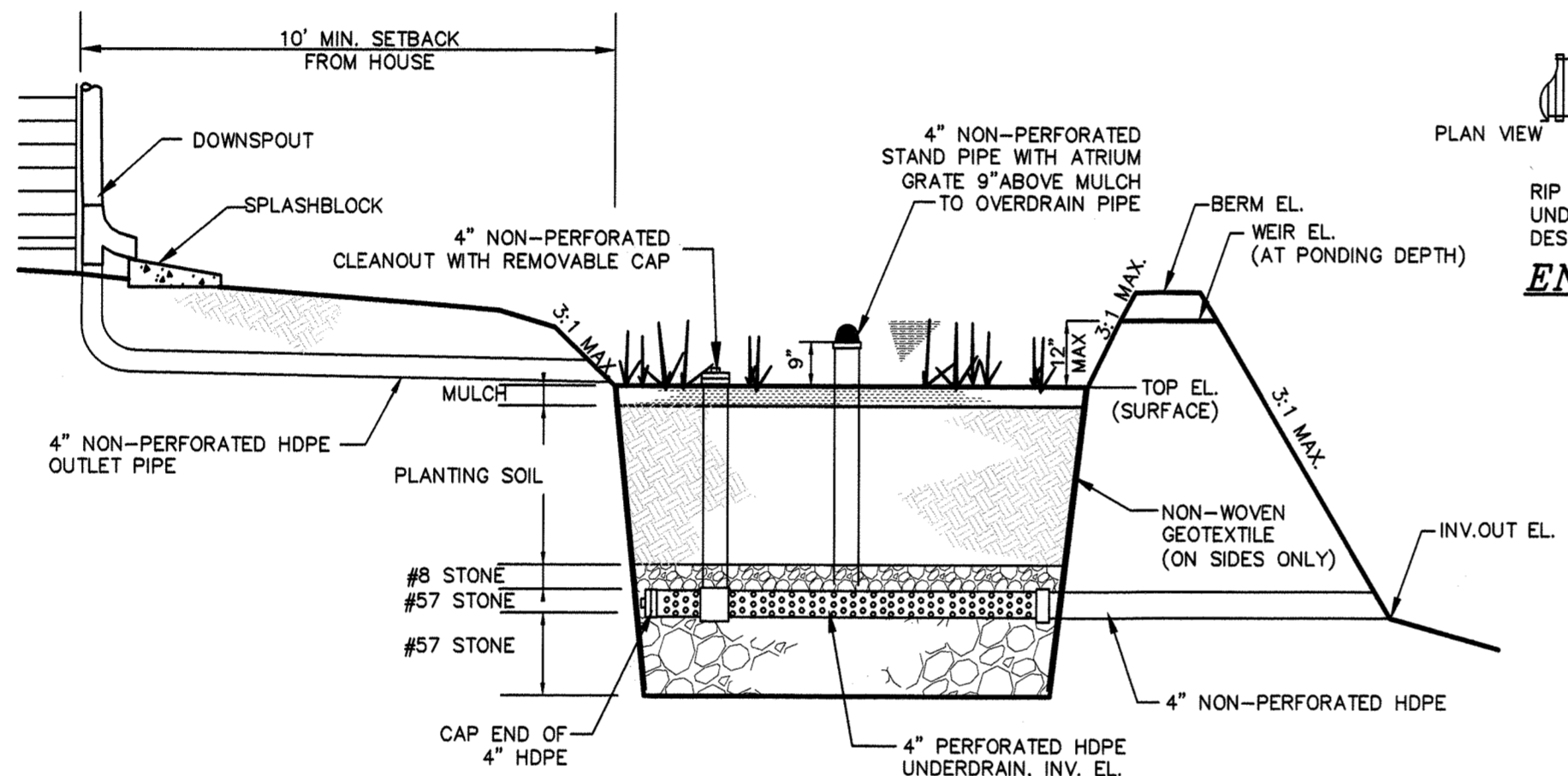
GRAPHIC SCALE
1" = 30 FT

* OFFSITE DRAINAGE SHOULD NOT DRAIN INTO BIO.



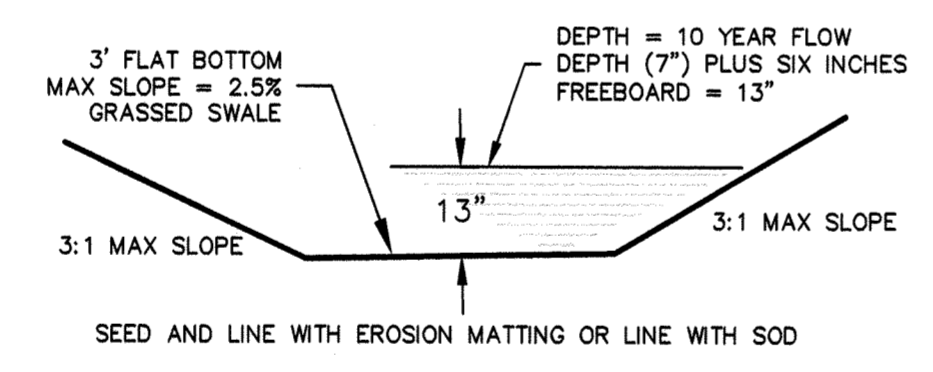
TYPICAL MICRO-BIORETENTION SECTION
NTS

* WRAP Perforated pipe with wire mesh.



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

TYPICAL MICRO-BIORETENTION PROFILE
NTS



TYPICAL GRASS SWALE SECTION
PERMANENT DIVERSION SWALE, PDS-2
NTS

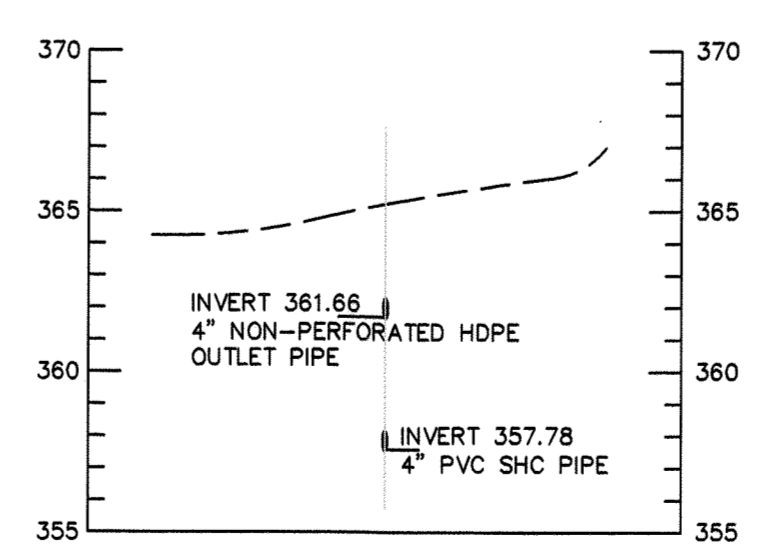
SVM PRACTICES SCHEDULE

| FACILITY# | AREA | REQUIRED ESDV | PROVIDED ESDV |
|-----------|------------|---------------|---------------|
| MB #1 | HOUSE & DW | 274 C.F. | 328 C.F. |

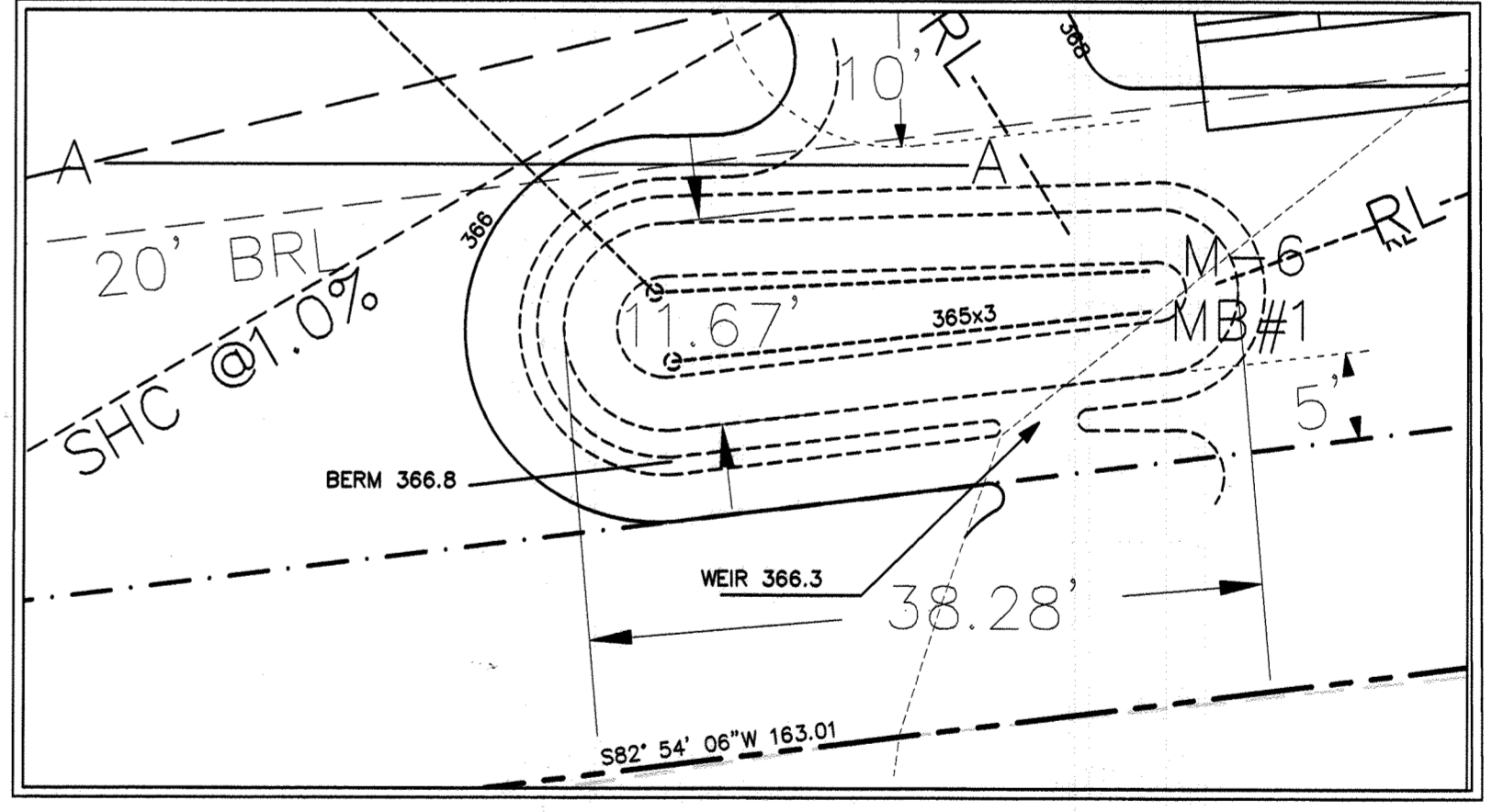
SOIL BORING RESULTS

TABLE 1 FROM DEC. 4TH REPORT BY GE&T CONSULTANTS, INC.

| BORING NO. | DEPTH TO GROUNDWATER | DEPTH TO GEOPROBE REFUSAL (FT) | DEPTH TO BORING (FT) | REMARKS |
|------------|----------------------|--------------------------------|----------------------|---------|
| B-1 | N/A | N/A | 12.0 | |



SECTION A-A PIPES CROSSING
1" = 5' VERTICAL, 30' HORIZONTAL



DETAIL MICRO-BIORETENTION #1
1" = 10 FT

MICRO-BIORETENTION SCHEDULE

| FACILITY | TOP EL. (SURFACE) | WEIR EL. (PONING) | BERM EL. | UNDRAIN INV. IN | UNDRAIN INV. OUT | SURFACE AREA | PONING AREA | PONING DEPTH | GRAVEL DEPTH BELOW UNDERDRAIN |
|----------|-------------------|-------------------|----------|-----------------|------------------|--------------|-------------|--------------|-------------------------------|
| MB#1 | 365.30 | 366.30 | 366.80 | 362.38 | 361.80 | 142 S.F. | 380 S.F. | 12" | 15" |

OUTLET STABILITY

HDPE N = 0.012, GRASS N = 0.15, $V = 1.49 \sqrt{N(AW/PW)^{0.67} S^{0.5}}$

CHECK UNDERDRAIN AND ROOF LEADER OUTLET VELOCITY FLOWING FULL

| DESCRIPTION | DIM OR DIAM | AW | PW | AW/PW ^{0.67} | SLOPE | VELOCITY FPS | SHEAR |
|----------------|---------------|-------|------|-----------------------|-------|--------------|-------|
| #4" OUTLET | 0.33 | 0.09 | 1.05 | 0.19 | 0.005 | 1.34 | 0.03 |
| #4" ROOFLEADER | 0.33 | 0.09 | 1.05 | 0.19 | 0.01 | 1.89 | 0.05 |
| GRASS SWALE | 3:1, 3FT, 3:1 | 2.811 | 6.73 | 0.56 | 0.025 | 0.88 | 0.65 |

SHEAR STRESS = 82.4 LB/CU.FT. x (AW/PW) x SLOPE, UNITS LBS/SQ.FT.
VELOCITY 1.89 FPS IS STABLE ON ANY SURFACE, SHEAR LESS THAN 2.0 MAY BE MULCHED
GRASS SWALE CALCULATED FOR 10 YEAR STORM, STEEPEST DESIGN SLOPE

RIP RAP OUTLET PROTECTION IS NOT REQUIRED BY CALCULATIONS AND IS SHOWN AS REQUESTED. FLOW TO THIS AREA ARE NOT EXPECTED TO HAVE AN ADVERSE EFFECT DUE TO THIS BEING THE LOCATION THAT HAS ALWAYS RECEIVED THE FLOW IN THIS AREA, AND DEVELOPED FLOWS ARE MANAGED AS PER MDE/ESD

DEVELOPERS CERTIFICATE
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Alicia Porter 5/11/2021
SIGNATURE OF DEVELOPER DATE
ALICIA PORTER
PRINTED NAME OF DEVELOPER

ENGINEER'S CERTIFICATE
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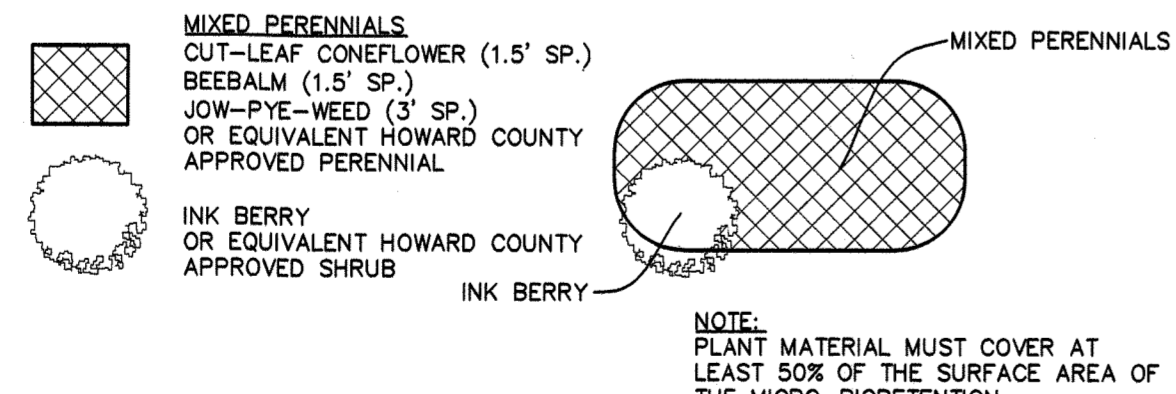
Michael G. Kretsch 5/11/2021
SIGNATURE OF ENGINEER DATE
MICHAEL G. KRETSCH, P.E.
PRINTED NAME OF ENGINEER

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

Alexander Bratsch 5/12/21
SIGNATURE OF ENGINEER DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONING
[Signature] 5-20-21 DATE
CHIEF, DEVELOPMENT ENGINEERING DIVISION JP
[Signature] 5-27-21 DATE
CHIEF, DIVISION OF LAND DEVELOPMENT etb
[Signature] 5-27-21 DATE
DIRECTOR

MICRO-BIORETENTION (MB-3) PLAN
SCALE: 1"=30'



TYP. MICRO-BIORETENTION (M-6) DETAIL
SCALE: NTS

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

- A. 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.
- B. 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.
- C. 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.
- D. 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

DEVIRCK MOORE
ALICIA PORTER
1707 BLARNEY COURT
SEVERN MD 21144
240-319-9825

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. 34027, EXP DATE 01/16/2023
[Signature] 5/11/2021 DATE
MICHAEL KRETSCH

| | | | |
|--------------|--------|-------------|--------------|
| Project | 20-019 | date | APR 2021 |
| Illustration | MCK | engineering | MCK |
| Scale | MCK | approval | AS SHOWN SAA |

| | | | |
|--------------|--------|-------------|----------|
| Project | 20-019 | date | 2/2/2021 |
| Illustration | MCK | description | REVISION |
| Scale | MCK | revision | 1 |

DEVIRCK MOORE & ALICIA PORTER PROPERTY
TAX MAP: 42 - PARCEL : 266 - GRID 010
SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
STORMWATER MANAGEMENT DETAILS

MILDENBERG, BOENDER & ASSOC., INC.
Engineers Planners Surveyors
7350-B Grace Drive, Columbia, Maryland 21044
(410) 997-0296 Tel. (410) 997-0288 Fax.

