

MCE CHART

LOT#	EL @ MAIN	TYPE	DIST. TO RW	EL @ ESMT.	DIST. ESMT. TO HOUSE	EL @ HOUSE	MCE*
1	451.70	SHC	27	452.24	23	452.70 (1)	455.02
2	446.01	SHC	9	446.19	24	446.67 (1)	449.17

(1) SHC @ 2%

MCE NOTE:

1. BUILDER TO CHECK THE BASEMENT FLOOR ELEVATION AGAINST THE MCE BEFORE EXCAVATING THE BUILDING FOUNDATION.

WATER NOTES:

1. ALL WATER CONNECTIONS SHALL BE 1-1/2" WITH 1" OUTSIDE METER SETTINGS, UNLESS OTHERWISE NOTED. REFER TO HOWARD COUNTY DETAILS W-3.28 OUTSIDE METER SETTINGS.

2. COPPER SHALL BE USED FOR THE 1.5" WHC.

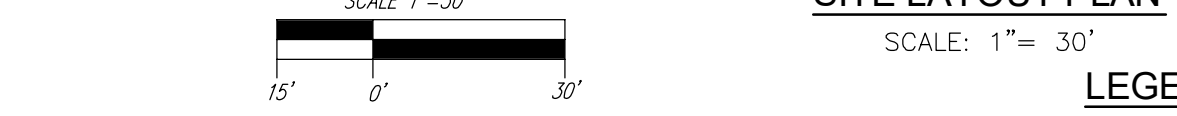
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

DocuSigned by: *Richard Edmondson* 8/10/2024

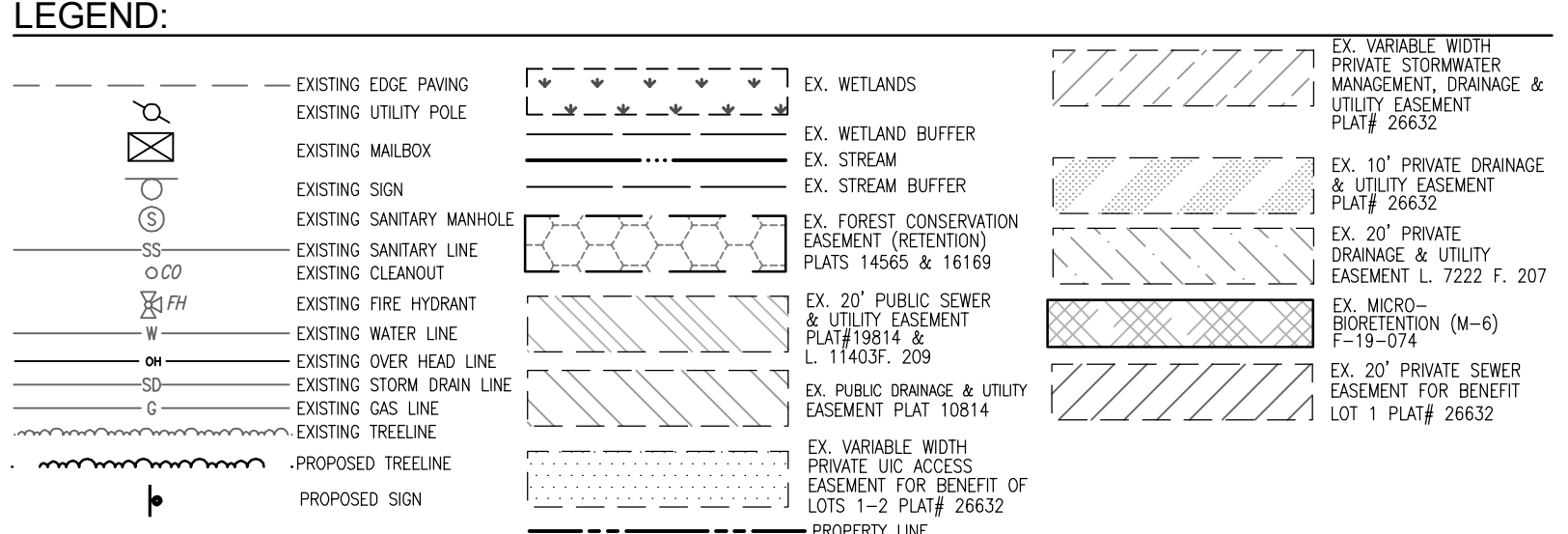
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE 7/30/2024

CHIEF, DIVISION OF LAND DEVELOPMENT DATE 8/10/2024

DIRECTOR *Debra Crossberg* DATE

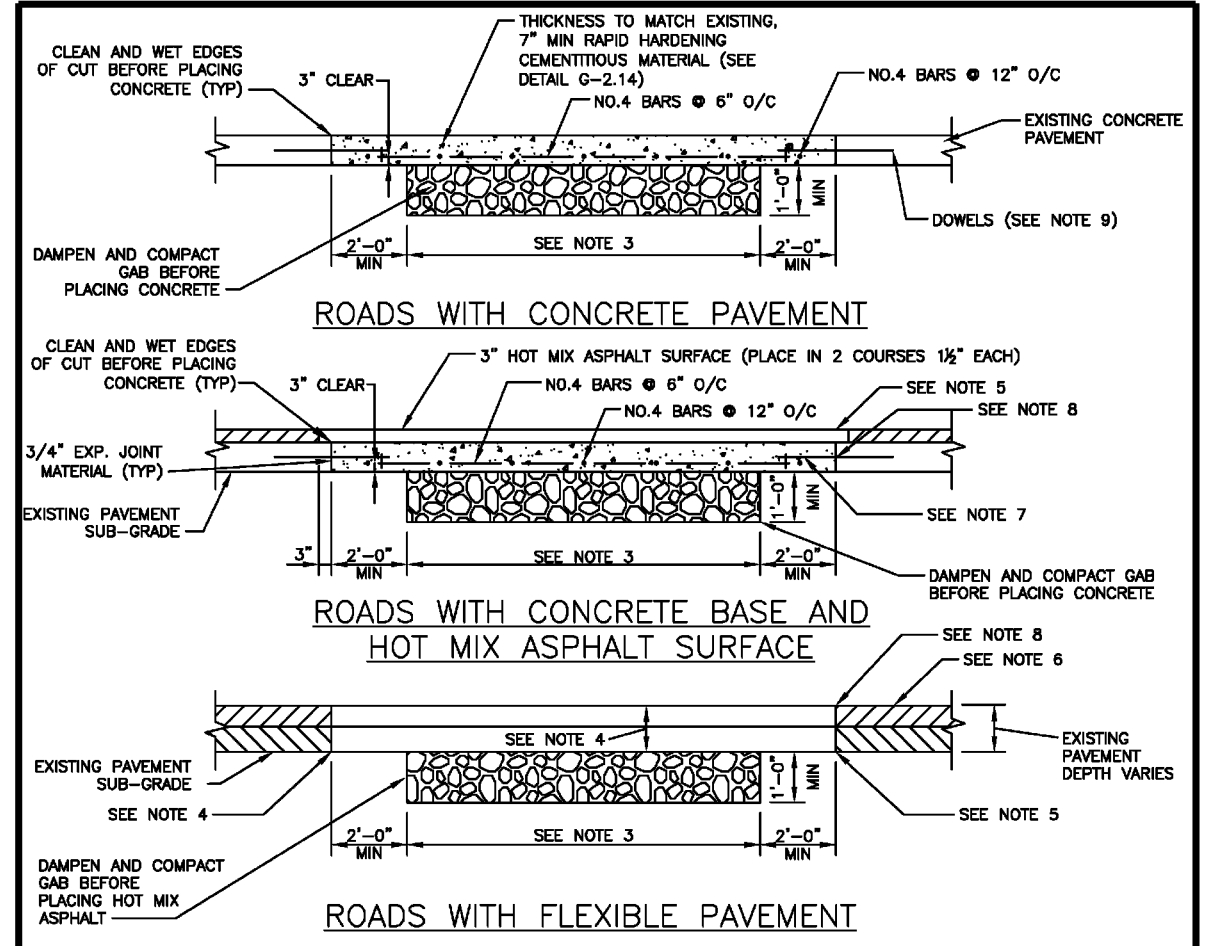


SITE LAYOUT PLAN
SCALE: 1" = 30'



STORM WATER MANAGEMENT NOTE:

1. REFER TO SHEET 6 FOR MICRO BIO-RETENTION SIZE, NOTES & DETAILS.



- NOTES:**
- WHEREVER A TRENCH CROSSES A CONCRETE ROADWAY THAT HAS JOINT INSTALLATIONS THE ENTIRE SLAB BETWEEN THE EDGE OF THE TRENCH AND THE NEAREST JOINT SHALL BE REMOVED IF THE DISTANCE IS LESS THAN 10 FEET.
 - CLEAN AND WET EDGES OF CUT AND SUBGRADE BEFORE PLACING CONCRETE.
 - AGGREGATE SUB-BASE WITH SHALL BE 6 FT MINIMUM OR ACTUAL TRENCH WIDTH, WHICH EVER IS GREATER.
 - HOT MIX ASPHALT PAVEMENT PATCH THICKNESS SHALL BE EQUAL TO THE EXISTING PAVING SECTION OR AS APPROVED BY DPW. THE MINIMUM PAVING PATCH SHALL CONSIST OF 2" MIN. SURFACE COURSE OVER 4" MIN. BASE COURSE, GRADED AGGREGATE BASE (GAB) SHALL BE PLACED AND COMPACTED IN 6" MAXIMUM COMPACTED THICKNESS LAYERS.
 - CLEAN EXPOSED VERTICAL SURFACE OF ADJACENT PAVEMENT AND PLACE TACK COAT ON ALL VERTICAL SURFACES PRIOR TO PLACING HMA.
 - IF THE REMAINING EXISTING PAVEMENT IS LESS THAN 4" WIDE, THE RESIDUAL PAVEMENT SHALL BE REMOVED IN ITS ENTIRETY AND REPLACED.
 - CONCRETE REPLACEMENT SHALL BE 10" MINIMUM MIX NO. 6.
 - SAW CUT FULL DEPTH ALL JOINTS OF EXISTING CONCRETE, BITUMINOUS, AND BASE PAVEMENTS.
 - REINFORCEMENT OF CONCRETE PAVING SHALL BE ACCOMPLISHED BY DOWELS. THE DOWELS SHALL BE CENTERED IN PAVEMENT THICKNESS. NEW REINFORCING SHALL BE TIED TO DOWELS.
 - TOTAL REPAIR WIDTH SHALL BE EQUAL TO THE LANE WIDTH IN ACCORDANCE WITH THE SPECIFICATIONS.

Approved: *Ormonde R. Smith* 8/10/2024
Chief, Bureau of Engineering

Howard County, Maryland
Department of Public Works

Utility Trench
Roadway Repaving

Detail
G-4.01

OWNER/DEVELOPER
ZABLAH REAL ESTATE, LLC
224 N. FRANKLINTOWN ROAD
BALTIMORE, MD 21225
(443) 841-8920

SITE DEVELOPMENT PLAN
SITE LAYOUT PLAN
HORVATH PROPERTY
LOTS 1 AND 2
ZONED: R-ED & R-20
L. 21961 F. 00193

TAX MAP 18 BLOCK 13
2ND ELECTION DISTRICT
DPZ REFERENCES: ECP-19-013, F-19-074, WP-24-057

PARCEL 38
HOWARD COUNTY, MARYLAND

VOGEL ENGINEERING
TIMMONS GROUP
3300 NORTH RIDGE ROAD, SUITE 110, ELLICOTT CITY, MD 21043
P: 410.461.7666 F: 410.461.8961 www.timmons.com

PROFESSIONAL CERTIFICATE

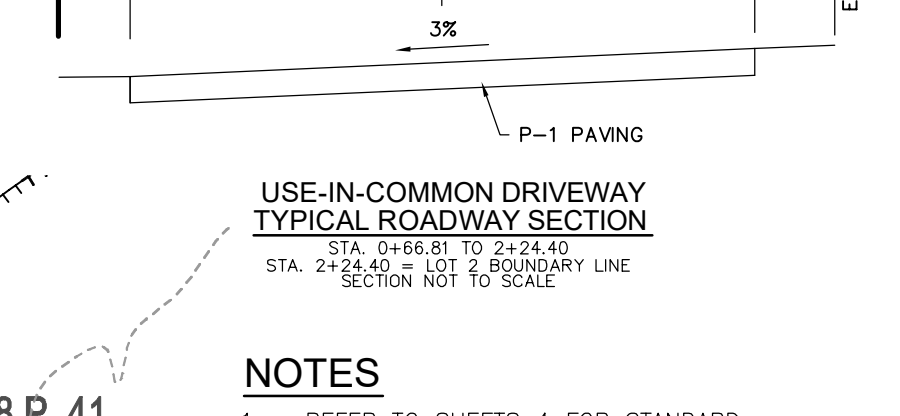
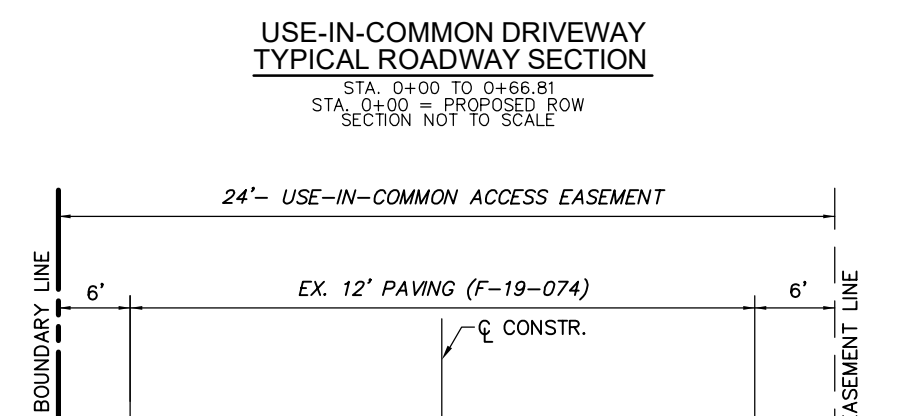
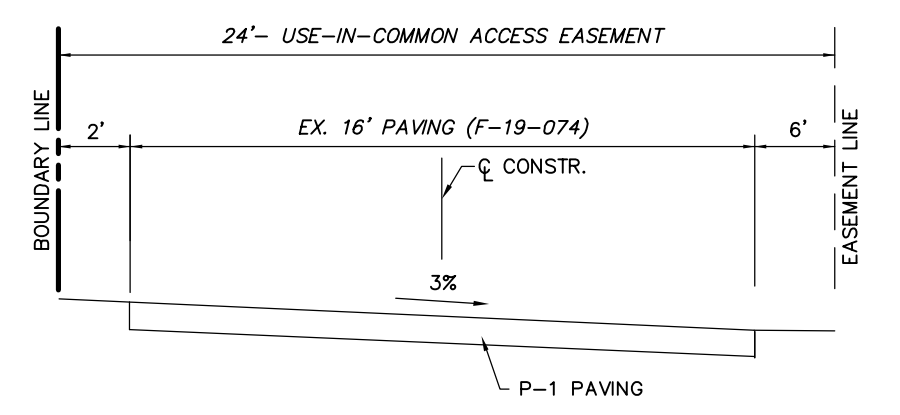
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 16163 EXPIRATION DATE: 09-27-2024

DESIGN BY: RVE
DRAWN BY: KG
CHECKED BY: RHY/EDS
DATE: MAY 2024
SCALE: AS SHOWN
W.O. NO.: 16-05

2 SHEET OF 6

NOTE:

1. STABILIZATION IS TO BE DONE AT THE DIRECTION OF THE SEDIMENT CONTROL INSPECTOR OR AT THE INTERVALS REQUIRED BY THE 2011 STDS. & SPECS. WHICHEVER IS MORE RESTRICTIVE.
2. LOCATE STOCKPILE AS SHOWN HEREON OR AS DIRECTED BY THE SEDIMENT CONTROL INSPECTOR. ANY STOCKPILES EXCEEDING 15 FEET IN HEIGHT SHALL BE BENCHED.
3. SILT FENCE IS TO BE REPLACED WITH SUPER SILT FENCE AT THE DIRECTION OF THE SEDIMENT CONTROL INSPECTOR.
4. SILT FENCE SHALL BE CURLED UPHILL. NO MORE THAN 35 FEET APART.
5. DOUBLE ROWS OF SUPER SILT FENCE SHALL BE INSTALLED AT THE DIRECTION OF THE SEDIMENT CONTROL INSPECTOR.



NOTES

1. REFER TO SHEETS 4 FOR STANDARD DETAILS AND STABILIZATION NOTES.
2. REFER TO SHEET 6 FOR TEST PIT DATA.

EROSION AND SEDIMENT CONTROL NOTES:

1. EITHER PERMANENT OR TEMPORARY STABILIZATION IS TO BE APPLIED AT THE DIRECTION OF THE SEDIMENT CONTROL INSPECTOR REGARDLESS OF DAYS/DATES IN THE STANDARD SEDIMENT CONTROL NOTES AND/OR SEEDING SPECIFICATIONS.
2. AT NO TIME DURING CONSTRUCTION WILL FENCING BE ALLOWED TO INTERCEPT CONCENTRATED FLOWS.
3. SOILS CONSIDERED HIGHLY ERODIBLE BY THE HOWARD SOIL CONSERVATION DISTRICT MAY REQUIRE MORE STRINGENT SEEDING AND STABILIZATION METHODS.

SECTION NUMBER	ROAD AND STREET CLASSIFICATION / TYPE	CALIFORNIA BONDING RATE (GBP)	3 TO 4%	5 TO 7%	8 TO 12%	13 TO 17%	18 TO 22%
P-1	NEW STREET TYPE	REVERT PROJECTS ONLY	1.0	1.0	1.0	1.0	1.0

NOTES

1. SUPER SILT FENCE IS TO BE USED WITH 10% TO 15% SLOPES ON SPILL-PROOFING PROJECTS.
2. SUPER SILT FENCE IS TO BE USED WITH 15% TO 20% SLOPES ON SPILL-PROOFING PROJECTS.
3. SUPER SILT FENCE IS TO BE USED WITH 20% TO 25% SLOPES ON SPILL-PROOFING PROJECTS.
4. SUPER SILT FENCE IS TO BE USED WITH 25% TO 30% SLOPES ON SPILL-PROOFING PROJECTS.
5. SUPER SILT FENCE IS TO BE USED WITH 30% TO 35% SLOPES ON SPILL-PROOFING PROJECTS.
6. SUPER SILT FENCE IS TO BE USED WITH 35% TO 40% SLOPES ON SPILL-PROOFING PROJECTS.
7. SUPER SILT FENCE IS TO BE USED WITH 40% TO 45% SLOPES ON SPILL-PROOFING PROJECTS.
8. SUPER SILT FENCE IS TO BE USED WITH 45% TO 50% SLOPES ON SPILL-PROOFING PROJECTS.
9. SUPER SILT FENCE IS TO BE USED WITH 50% TO 55% SLOPES ON SPILL-PROOFING PROJECTS.
10. SUPER SILT FENCE IS TO BE USED WITH 55% TO 60% SLOPES ON SPILL-PROOFING PROJECTS.
11. SUPER SILT FENCE IS TO BE USED WITH 60% TO 65% SLOPES ON SPILL-PROOFING PROJECTS.
12. SUPER SILT FENCE IS TO BE USED WITH 65% TO 70% SLOPES ON SPILL-PROOFING PROJECTS.
13. SUPER SILT FENCE IS TO BE USED WITH 70% TO 75% SLOPES ON SPILL-PROOFING PROJECTS.
14. SUPER SILT FENCE IS TO BE USED WITH 75% TO 80% SLOPES ON SPILL-PROOFING PROJECTS.
15. SUPER SILT FENCE IS TO BE USED WITH 80% TO 85% SLOPES ON SPILL-PROOFING PROJECTS.
16. SUPER SILT FENCE IS TO BE USED WITH 85% TO 90% SLOPES ON SPILL-PROOFING PROJECTS.
17. SUPER SILT FENCE IS TO BE USED WITH 90% TO 95% SLOPES ON SPILL-PROOFING PROJECTS.
18. SUPER SILT FENCE IS TO BE USED WITH 95% TO 100% SLOPES ON SPILL-PROOFING PROJECTS.

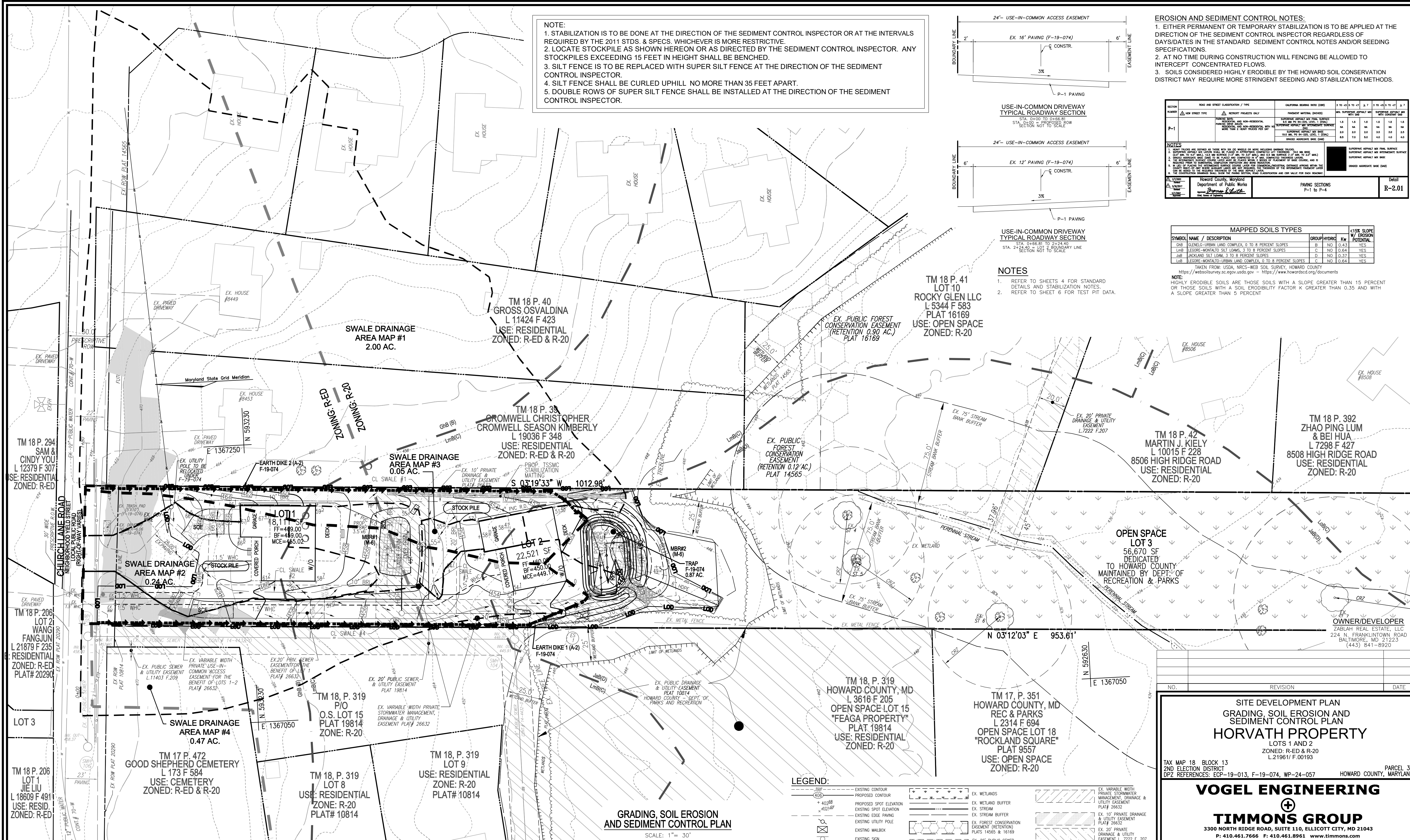
Howard County, Maryland
Department of Public Works
PAVING SECTIONS
P-1 to P-4
Detail
R-2.01

MAPPED SOILS TYPES

SYMBOL NAME / DESCRIPTION	GROUP	HYDROIC	K	<15% SLOPE	EROSION POTENTIAL
GMB (GLENELE-URBAN LAND COMPLEX, 0 TO 8 PERCENT SLOPES)	B	NO	0.43	YES	YES
LMB (LEGGEE-MONTALTO SILT LOAMS, 3 TO 8 PERCENT SLOPES)	C	NO	0.64	YES	YES
JMB (JACKSON SILT LOAM, 3 TO 8 PERCENT SLOPES)	D	NO	0.37	YES	YES
LOB (LEGGEE-MONTALTO-URBAN LAND COMPLEX, 0 TO 8 PERCENT SLOPES)	C	NO	0.64	YES	YES

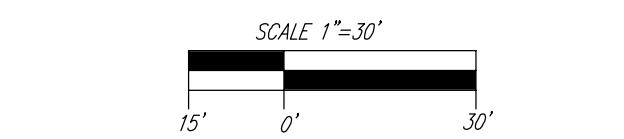
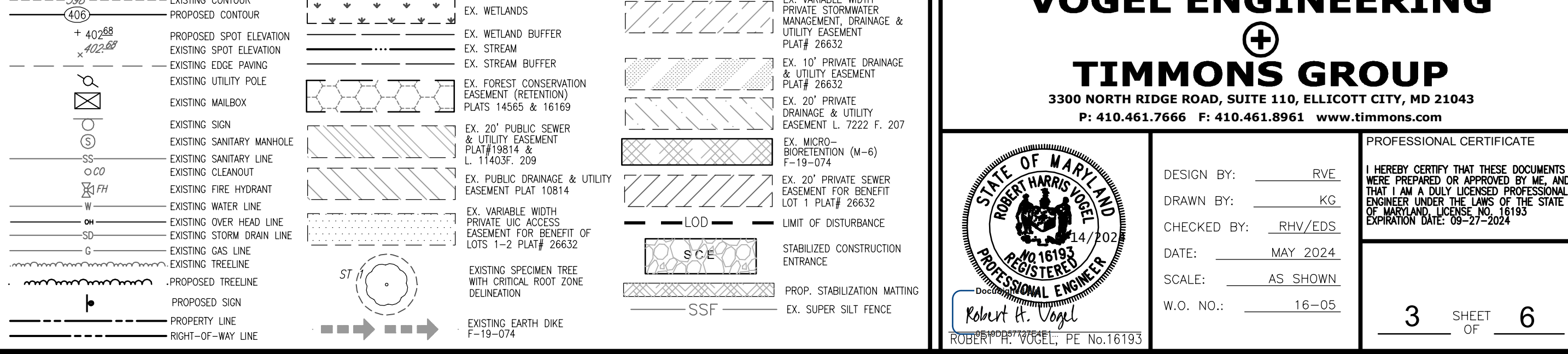
TAKEN FROM: USDA, NRCS-Web SOIL SURVEY, HOWARD COUNTY
https://websoilsurvey.sc.egov.usda.gov - https://www.howardsoil.gov

NOTE:
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



GRADING, SOIL EROSION AND SEDIMENT CONTROL PLAN
SCALE: 1" = 30'

LEGEND:



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

DocuSigned by:
Alexander Bratosh/29/2024
HOWARD SOIL CONSERVATION DISTRICT

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

DocuSigned by:
Chief, Development Engineering Division
8/10/2024

DocuSigned by:
Chief, Division of Land Development
8/10/2024

DocuSigned by:
Director
8/10/2024

OWNER/DEVELOPER CERTIFICATION:
I/WE CERTIFY THAT ANY CLEARING, GRADING, CONSTRUCTION, OR DEVELOPMENT WILL BE DONE PURSUANT TO THIS APPROVED EROSION AND SEDIMENT CONTROL PLAN, INCLUDING INSPECTING AND MAINTAINING CONTROLS, AND THAT THE RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF TRAINING AT A MARYLAND DEPARTMENT OF THE ENVIRONMENT (MDE) APPROVED TRAINING PROGRAM FOR THE CONTROL OF EROSION AND SEDIMENT PRIOR TO BEGINNING THE PROJECT. I CERTIFY RIGHT-OF-ENTRY FOR PERIODIC ON-SITE EVALUATION BY HOWARD COUNTY, THE HOWARD SOIL CONSERVATION DISTRICT AND/OR MDE.

DocuSigned by:
Ramadan Zablah
6/12/2024

OWNER/DEVELOPER SIGNATURE
PRINTED NAME & TITLE

DESIGN CERTIFICATION:
I HEREBY CERTIFY THAT THIS PLAN HAS BEEN DESIGNED IN ACCORDANCE WITH CURRENT MARYLAND EROSION AND SEDIMENT CONTROL LAWS, REGULATIONS, AND STANDARDS, THAT IT REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE, AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

DocuSigned by:
Robert H. Vogel
6/14/2024

DESIGNER'S SIGNATURE
PRINTED NAME
ROBERT H. VOGEL
MD REGISTRATION NO. 16193
R.L.S., OR R.L.A. (circle one)

**SITE DEVELOPMENT PLAN
GRADING, SOIL EROSION AND
SEDIMENT CONTROL PLAN
HORVATH PROPERTY**
LOTS 1 AND 2
ZONED: R-ED & R-20
L. 21961/F. 00193

TAX MAP 18 BLOCK 13
2ND ELECTION DISTRICT
DPZ REFERENCES: EOP-19-013, F-19-074, WP-24-057

HOWARD COUNTY, MARYLAND

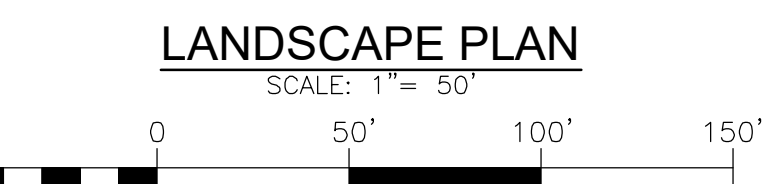
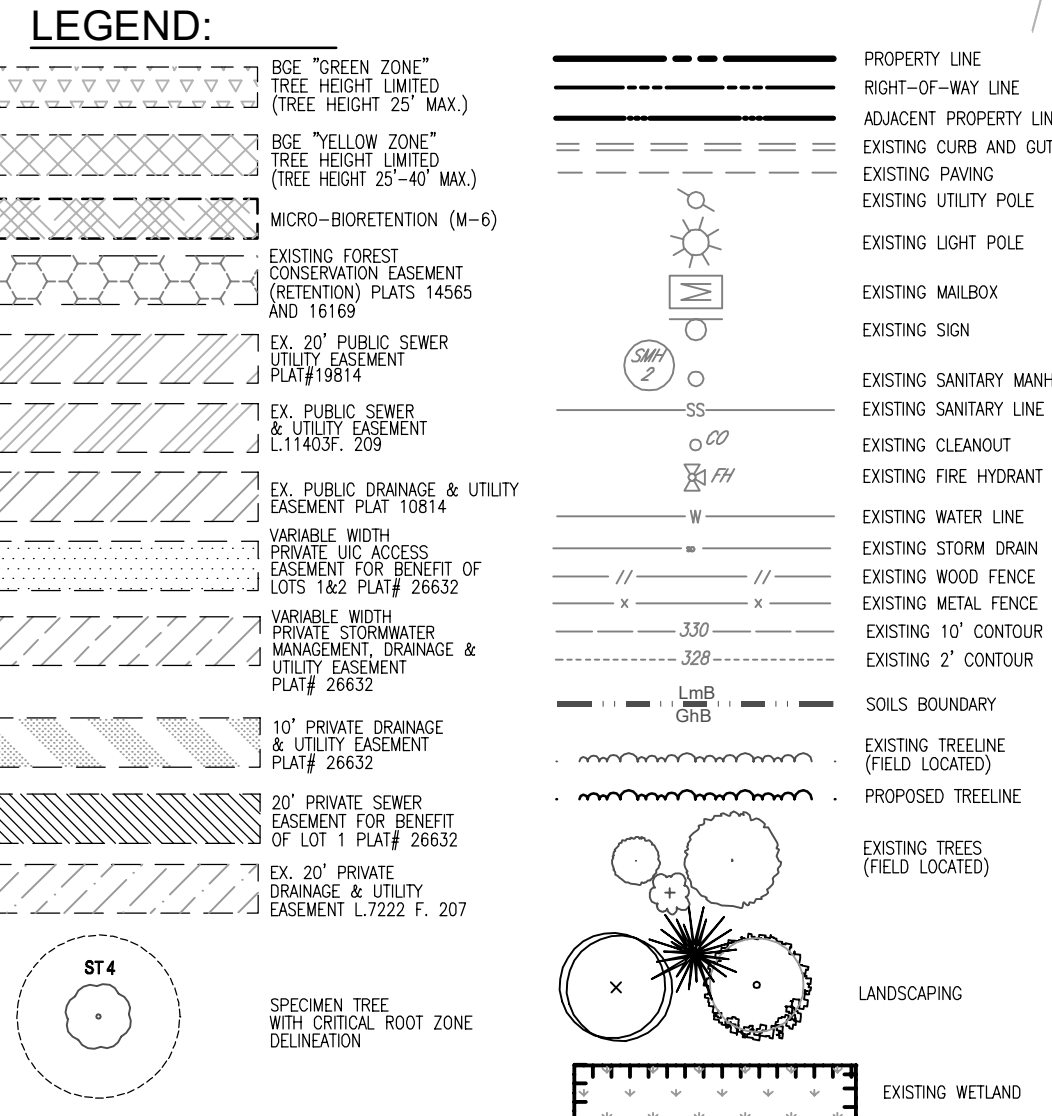
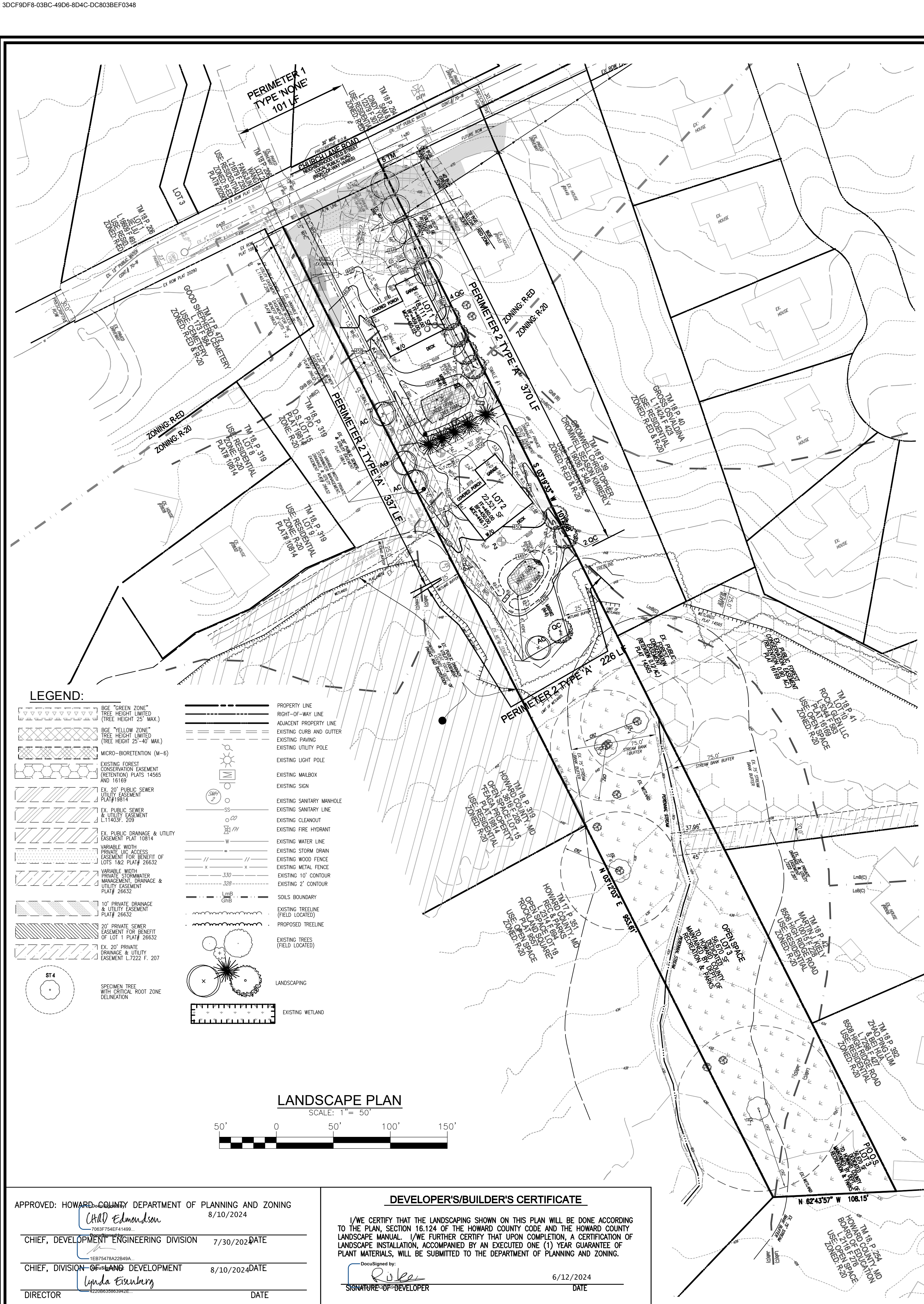
VOGEL ENGINEERING
TIMMONS GROUP
3300 NORTH RIDGE ROAD, SUITE 110, ELLICOTT CITY, MD 21043
P: 410.461.7666 F: 410.461.8961 www.timmons.com

PROFESSIONAL CERTIFICATE

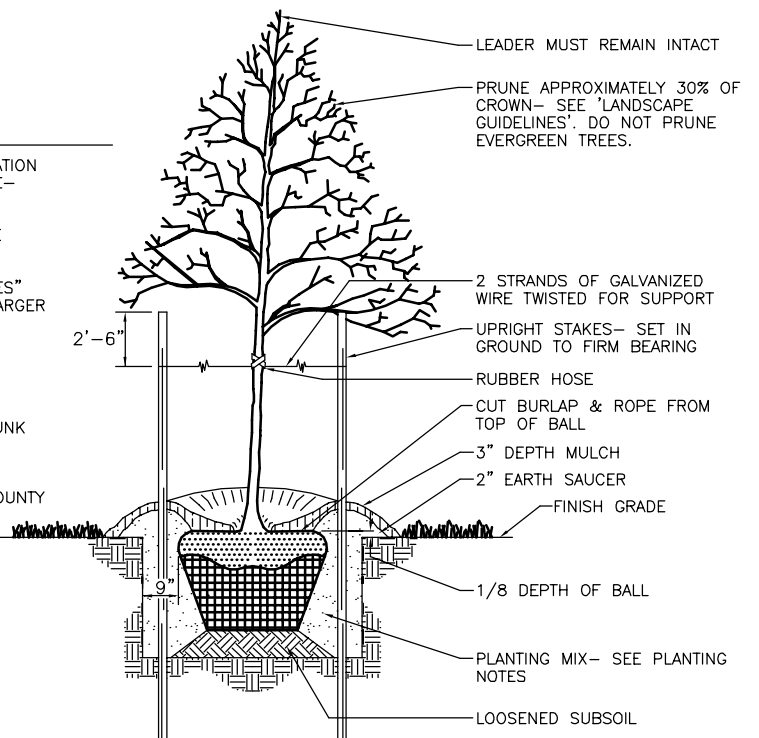
DESIGN BY: RVE
DRAWN BY: KG
CHECKED BY: RHV/LDS
DATE: MAY 2024
SCALE: AS SHOWN
W.O. NO.: 16-05

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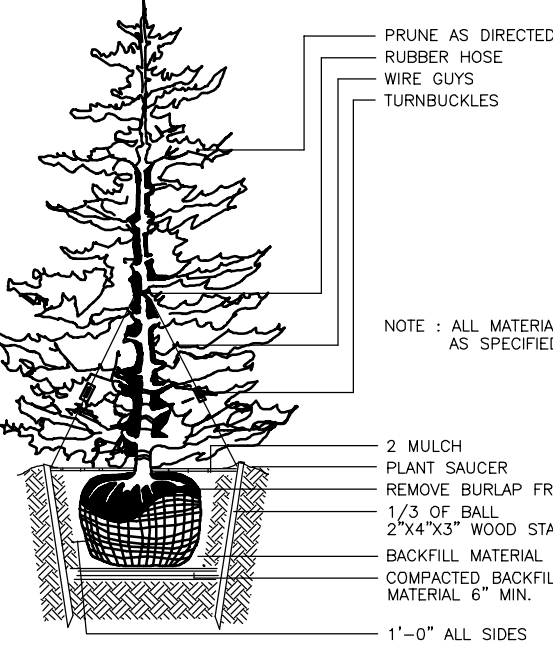
3 SHEET OF 6



TREE PLANTING AND STAKING
DECIDUOUS TREES UP TO 2-1/2" CALIPER
NOT TO SCALE

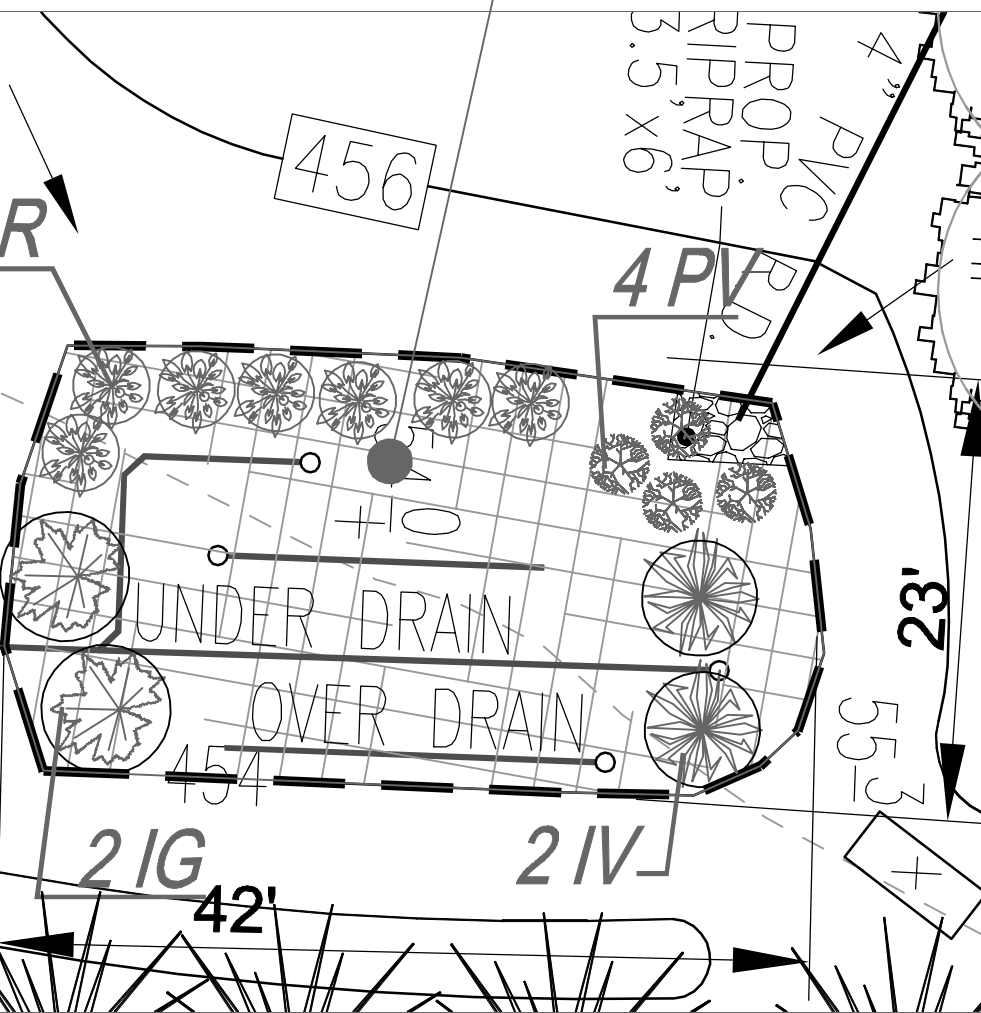


TYPICAL EVERGREEN TREE PLANTING DETAIL
NOT TO SCALE



- NOTES:**
- IN THE DIRECTION FACING A TRAFFIC CONTROL SIGN: THERE SHALL BE A MINIMUM OF 40' BETWEEN THE SIGN FACE AND CLOSEST TREE FOR ALL STOP SIGNS. THERE SHALL BE A MINIMUM OF 35' BETWEEN THE SIGN FACE AND CLOSEST TREE FOR ALL SIGNS OTHER THAN A STOP SIGN. A MINIMUM SPACING OF 20' SHALL BE MAINTAINED BETWEEN ANY STREET LIGHT AND ANY TREE.

44 PERENNIALS AND GROUNDCOVER



MBR#1 DETAIL(F-19-074)
SCALE: 1" = 10'

LEGEND KEY	QTY	BOTANICAL NAME/COMMON NAME	SIZE	REMARKS
IG	5	ILEX GLABRA 'SHAMROCK' INKBERRY HOLLY	1 GALLON	-
IV	5	ITEA VIRGINICA 'HENRY'S GARNET' VIRGINIA SWEETSPIRE	1 GALLON	-
LR	16	LEUCOTHEO RACEMOSA FETTERBUSH	1 GAL.	-
LR	10	PANICUM VIRGATUM SWITCHGRASS	1 GAL.	-

"MICRO-BIORETENTION/RAIN GARDEN" PLANTING SCHEDULE NOTES:

- ALL PLANT MATERIALS SHALL BE FULL AND HEAVY. BE WELL FORMED AND SYMMETRICAL, CONFORM TO THE MOST CURRENT AN SPECIFICATIONS AND BE INSTALLED IN ACCORDANCE WITH HOWARD COUNTY PLANTING SPECIFICATIONS.
- FINAL LOCATION OF PLANT MATERIAL MAY NEED TO VARY TO MEET FINAL FIELD CONDITIONS. TREE LOCATIONS SHALL NOT BE PLANTED IN THE BOTTOM OF DRAINAGE SNALES. CONTRACTOR SHALL VERIFY PLANT QUANTITIES PRIOR TO BIDDING. IF PLAN DIFFERS FROM LANDSCAPE SCHEDULE, THE PLAN SHALL GOVERN.
- MICROBIORETENTION AREAS ARE TO BE PLANTED ON A MINIMUM DENSITY OF 1000 STEMS PER PLANTED ACRE (1029 STEMS PER SQUARE FOOT). ABOVE PLANTING RATIOS ARE TO BE APPLIED TO THE AREAS PROVIDED IN THE ESSY SUMMARY.
- FILTER AREA SHALL BE SOAK COVERED BY PLANTINGS AT FULL GROWTH.

GENERAL NOTES:

- THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL.
- FINANCIAL SURETY IN THE AMOUNT OF \$5,500.00 (LOT 1 - \$ 2,700 AND LOT 2 \$ 2,800) FOR THE 16 SHADE TREES (4800) - 5 EVERGREEN TREES (750)
- THIS PLAN IS SUBJECT TO THE AMENDED FIFTH EDITION OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS. DEVELOPMENT OR CONSTRUCTION OF THESE LOTS MUST COMPLY WITH SEB&K AND BETTER REGULATIONS IN EFFECT AT THE TIME OF SUBMISSION OF THE SITE DEVELOPMENT PLAN. ALTERNATIVE COMPLIANCE, OR BUILDING AND GRADING PERMITS.
- NO LANDSCAPING TO BE INSTALLED WITH ANY PUBLIC EASEMENT FOR WATER, SEWER, OR STORMWATER.
- ANY EXISTING STREET TREES DAMAGED OR DESTROYED DURING CONSTRUCTION WILL BE REPLACED BY THE CONTRACTOR.

LANDSCAPING NOTES

- AT THE TIME OF PLANT INSTALLATION, ALL SHRUBS AND TREES LISTED AND APPROVED ON THE LANDSCAPE PLAN, SHALL COMPLY WITH THE PROPER HEIGHT REQUIREMENT IN ACCORDANCE WITH THE HOWARD COUNTY LANDSCAPE MANUAL. IN ADDITION, NO SUBSTITUTIONS OR RELOCATIONS OF THE REQUIRED PLANTINGS MAY BE MADE WITHOUT PRIOR REVIEW AND APPROVAL FROM THE DEPARTMENT OF PLANNING AND ZONING. ANY DEVIATION FROM THE 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 THE APPLICABLE PLANS.
- 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.
- 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 OF A TREE WHICH WILL OBTAIN THE SAME HEIGHT, SPREAD, AND GROWTH CHARACTERISTICS. THE REPLACEMENT TREE MUST BE A MINIMUM OF 3 INCHES IN CALIPER AND INSTALLED AS REQUIRED IN THE HOWARD COUNTY LANDSCAPE MANUAL.
- PLANTINGS SHOWN HEREON ARE THE RESPONSIBILITY OF THE DEVELOPER TO INSTALL DURING THE CONSTRUCTION OF THE FINAL PLAN.
- SURETY FOR THE PROPOSED LANDSCAPING SHALL BE BASED ON THE NUMBER OF PLANTINGS REQUIRED.
- THE REMOVAL OF TREES 30" OR GREATER DBH IS PROHIBITED WITHOUT COUNTY APPROVAL.

SCHEDULE 'A' PERIMETER LANDSCAPE EDGE

CATEGORY	ADJACENT TO ROADWAYS & PERIMETER PROPERTIES	TOTAL
PERIMETER/FRONTAGE DESIGNATION		
LANDSCAPE TYPE	NONE	2
LINEAR FEET OF ROADWAY FRONTAGE/PERIMETER	101'	933
CREDIT FOR EXISTING VEGETATION (YES, NO, LINEAR FEET DESCRIBE BELOW IF NEEDED)	NO	NO
CREDIT FOR WALL, FENCE OR BERM (YES, NO, LINEAR FEET DESCRIBE BELOW IF NEEDED)	NO	NO
NUMBER OF PLANTS REQUIRED		933
SHADE TREES		1,160
EVERGREEN TREES		15.6
SHRUBS		-
NUMBER OF PLANTS PROVIDED		
SHADE TREES		16
EVERGREEN TREES		16
OTHER TREES (2:1 SUBSTITUTION)		-
SHRUBS (10:1 SUBSTITUTION)		-
DESCRIBE PLANT SUBSTITUTION CREDITS BELOW IF NEEDED		

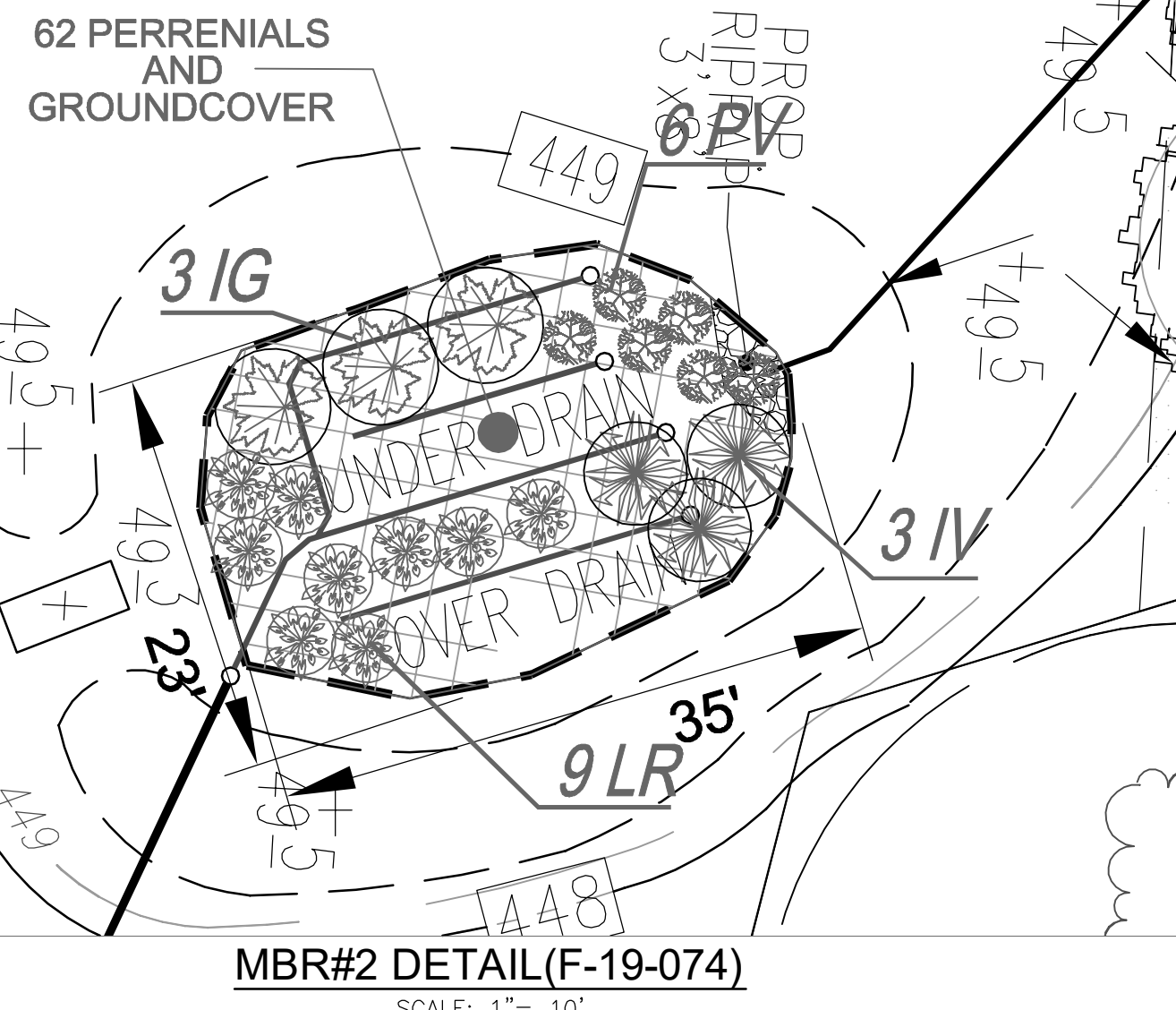
LANDSCAPE SCHEDULE - REQUIRED PLANTING

SYMB	KEY	QUAN	BOTANICAL NAME	SIZE	CAT
OC	Q	7	QUERCUS COCCINEA SCARLET OAK	2.5"-3" CAL	B & B
AC	4	ACER RUBRUM 'OCTOBER GLORY' OCTOBER GLORY RED MAPLE	2.5"-3" CAL	B & B	
TM	5	ACER BURGERSRANUM TRIDENT MAPLE	1.5"-3" CAL MAX HEIGHT=25'	B & B	
PA	5	THILIA OCCIDENTALIS 'PYRAMIDALIS' EMERALD GREEN PYRAMIDAL ARBORVITAE	6 - 8' HT	B & B	

NOTE: WITH PERMISSION FROM HOWARD COUNTY, PLANTINGS SPECIFIED HEREON MAY BE SUBSTITUTED WITH APPROVED SPECIES LISTED IN APPENDIX B & C OF THE HOWARD COUNTY LANDSCAPE MANUAL.

LANDSCAPE SCHEDULE NOTE:

- ALL PLANT MATERIALS SHALL BE FULL AND HEAVY. BE WELL FORMED AND SYMMETRICAL CONFORM TO THE MOST CURRENT AN SPECIFICATIONS AND BE INSTALLED IN ACCORDANCE WITH HRD PLANTING SPECIFICATIONS.
- CONTRACTOR SHALL VERIFY LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO DIGGING.
- FINAL LOCATION OF PLANT MATERIAL MAY NEED TO VARY TO MEET FINAL FIELD CONDITIONS. TREES SHALL NOT BE PLANTED IN THE BOTTOM OF DRAINAGE SNALES.
- CONTRACTOR SHALL VERIFY PLANT QUANTITIES PRIOR TO BIDDING. IF PLAN DIFFERS FROM LANDSCAPE SCHEDULE, THE PLAN SHALL GOVERN.



MBR#2 DETAIL(F-19-074)
SCALE: 1" = 10'

DPZ'S POLICIES GOVERNING THE PLACEMENT OF LANDSCAPING AND STREET TREES IN PROXIMITY TO BGE'S POWER LINES OR TRANSMISSION RIGHT-OF-WAY ARE BASED ON BGE'S PUBLISHED "PLANTING ZONE CONCEPT" WHICH STIPULATES THE MAXIMUM ALLOWABLE SIZE OF PLANT MATERIALS FOR THREE DEFINED ZONES, AS THE DISTANCE FROM BGE EQUIPMENT INCREASES, SO DOES THE SIZE OF THE ALLOWABLE PLANT MATERIALS. THESE THREE ZONES ARE DEFINED AS FOLLOWS:

ZONE	DISTANCE FROM THE BGE POWER LINE OR TRANSMISSION RIGHT-OF-WAY	MAXIMUM HEIGHT OF VEGETATION
YELLOW	UP TO 20 FEET	25 FEET
GREEN	BETWEEN 20 FEET AND 45 FEET	40 FEET
RED	BEYOND 45 FEET	ABOVE 40 FEET

- B & E NOTES:**
- BGE RESERVES THE RIGHT TO TRIM, TOP OR CUT DOWN ANY TREE IN PROXIMITY TO THE LINE THAT IN THE OPINION OF BGE SHALL BE DEEMED A HAZARD TO THE SAFE AND RELIABLE DELIVERY OF ELECTRICITY.
 - THE DEPARTMENT OF PLANNING AND ZONING MAY AUTHORIZE THE TRIMMING OR REMOVAL OF TREES OR VEGETATION IMMEDIATELY ADJACENT TO THE BGE R/W OR EASEMENT, IF BGE DETERMINES THE TREES ARE COMPROMISING THE SAFETY OF A TRANSMISSION LINE LOCATED WITHIN THEIR UTILITY R/W OR EASEMENT. IF BGE INTENDS TO TRIM OR REMOVE TREES WITHIN A FOREST CONSERVATION AGREEMENT, A LETTER SPECIFYING THE LOCATION AND SCOPE OF WORK NEEDS TO BE SENT TO DPZ AT LEAST 30 DAYS IN ADVANCE OF UNDERTAKING THE WORK. DPZ UNDERSTANDS CONSERVATION ENERGY'S NEED TO PROTECT ITS TRANSMISSION LINES AND WILL NOT UNREASONABLY WITHHOLD PERMISSION.
 - CALL MISS UTILITY TO MARK UP THE LOCATION OF EXISTING GAS LINE BEFORE PLANTING. EXISTING TREE CORONA LINE ROAD & PLANT STREET TREES 10' AWAY FROM EXISTING GASLINE AS REQUIRED.

OWNER/DEVELOPER
ZABLAH REAL ESTATE, LLC
224 N. FRANKLINTOWN ROAD
BALTIMORE, MD 21223
(443) 841-8920

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
Chris Edmondson
7/30/2024 DATE
CHIEF, DEVELOPMENT ENGINEERING DIVISION
1E07S4228246A
CHIEF, DIVISION OF LAND DEVELOPMENT
Lynda Estenberg
8/10/2024 DATE
DIRECTOR
622085380612C

DEVELOPER'S/BUILDER'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 (1) YEAR GUARANTEE OF PLANT MATERIALS, WILL BE SUBMITTED TO THE DEPARTMENT OF PLANNING AND ZONING.
Designed by:
Robert H. Vogel
6/12/2024 DATE
SIGNATURE OF DEVELOPER
DATE

SITE DEVELOPMENT PLAN
LANDSCAPE PLAN
NOTES & DETAILS
HORVATH PROPERTY
LOTS 1 AND 2
ZONED: R-ED & R-20
L.219617.F.00193

TAX MAP 18 BLOCK 13
2ND ELECTION DISTRICT
DPZ REFERENCES: ECP-19-013, F-19-074, WP-24-057 HOWARD COUNTY, MARYLAND PARCEL 38
P. 410.461.8961 F. 410.461.8961 www.timmons.com

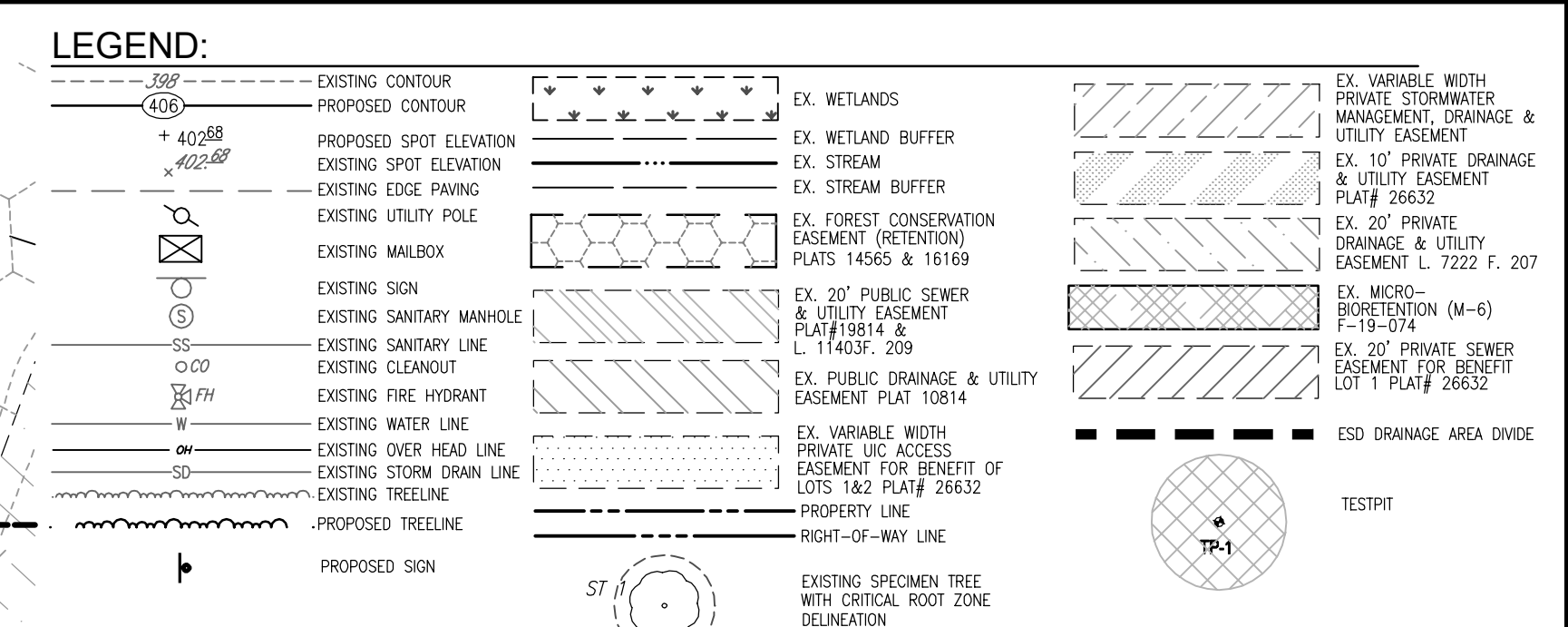
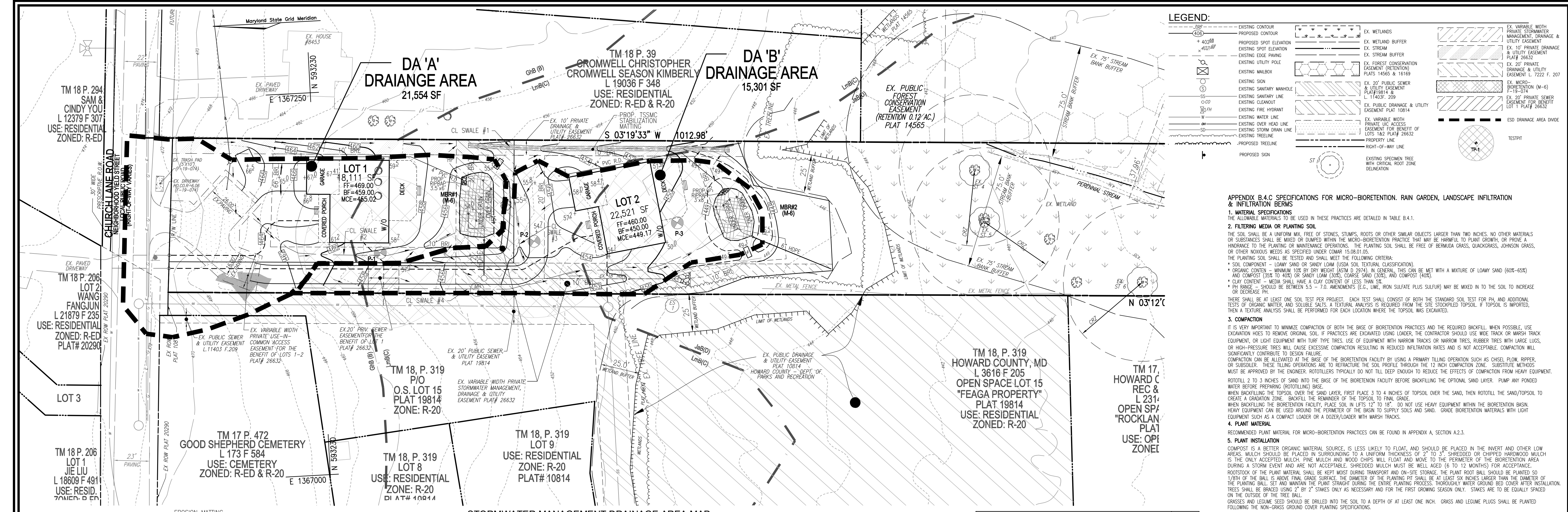
VOGEL ENGINEERING
TIMMONS GROUP
3300 NORTH RIDGE ROAD, SUITE 110, ELLICOTT CITY, MD 21043
P: 410.461.8961 F: 410.461.8961 www.timmons.com

PROFESSIONAL CERTIFICATE
DESIGN BY: RVE
DRAWN BY: KG
CHECKED BY: RHW/EDS
DATE: MAY 2024
SCALE: AS SHOWN
W.O. NO.: 16-05

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. 16193 EXPIRATION DATE: 09-27-2024

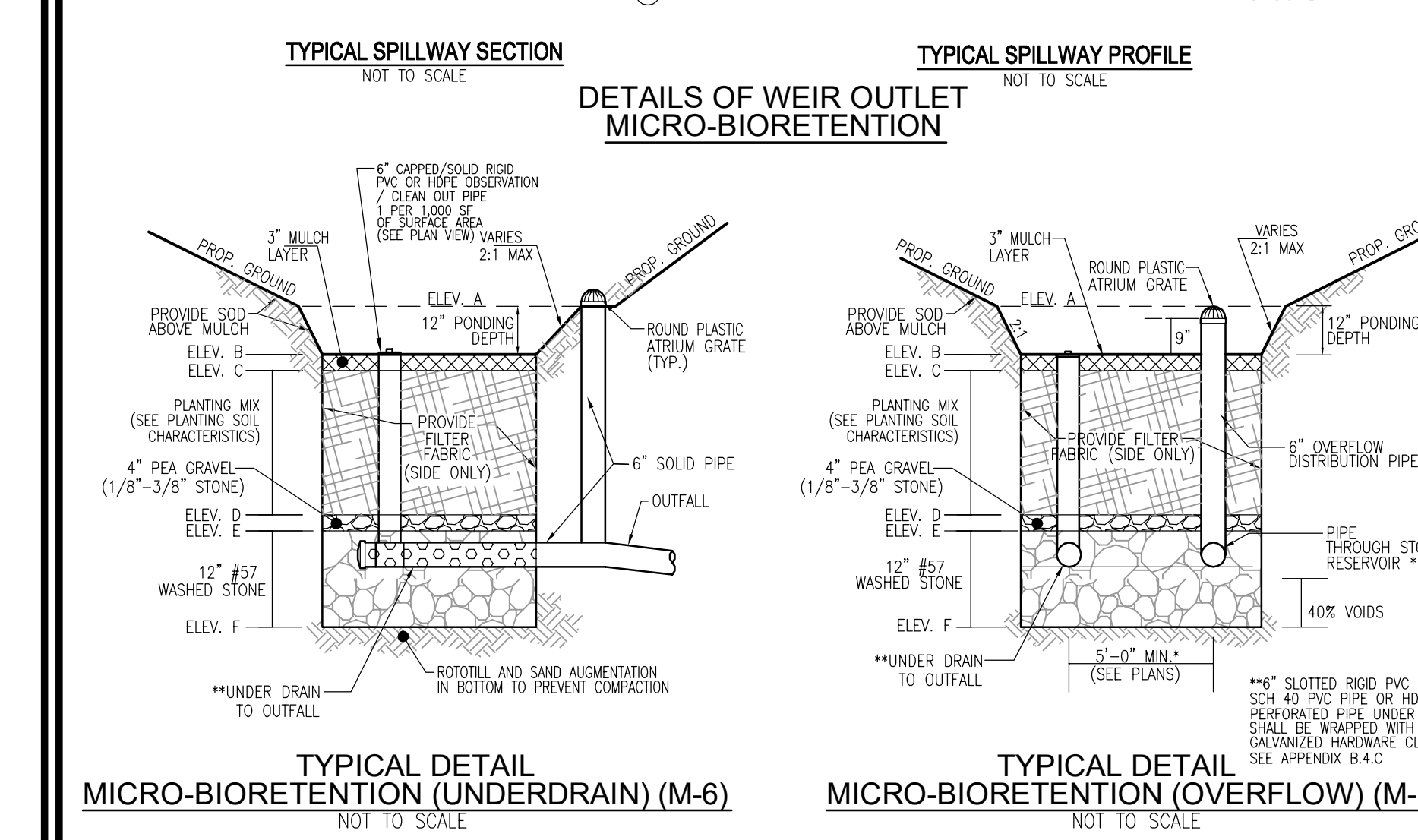
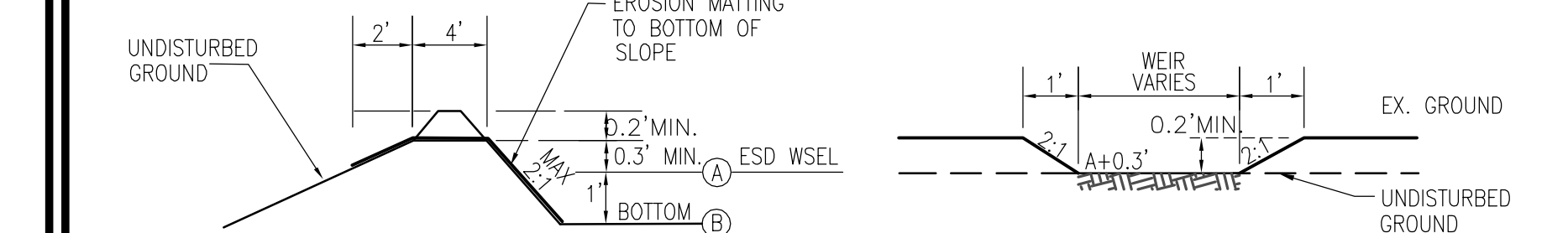
Robert H. Vogel
ROBERT H. VOGEL, PE No.16193

5 SHEET OF 6

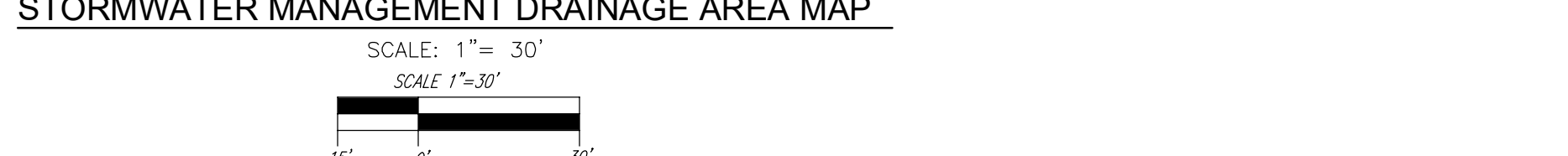


APPENDIX B.4.C SPECIFICATIONS FOR MICRO-BIOTRETION. RAIN GARDEN, LANDSCAPE INFILTRATION & INFILTRATION BERMS

- 1. MATERIAL SPECIFICATIONS
2. FILTERING MEDIA OR PLANTING SOIL
3. COMPACTION
4. PLANT MATERIAL
5. PLANT INSTALLATION
6. UNDERDRAINS
7. MISCELLANEOUS



MICRO-BIOTRETENTION NOTES:
1. ONLY THE SIDES OF MICRO-BIOTRETENTION ARE TO BE WRAPPED IN FILTER FABRIC...
2. WRAP THE PERFORATED MBR UNDERDRAIN PIPE WITH 1/4" MESH (4X4) OR SMALLER GALVANIZED HARDWARE CLOTH...
3. PROVIDE 5" MINIMUM SPACING BETWEEN UNDER DRAIN AND PERFORATED PIPE...
4. SOIL EROSION TO BE ADDRESSED ON AN AS NEEDED BASIS WITH A MINIMUM OF ONCE PER MONTH AND AFTER HEAVY STORM EVENTS.



MAPPED SOILS TYPES table with columns: SYMBOL, NAME / DESCRIPTION, GROUP/HYDRO, K, % CLAY, SLOPE POTENTIAL.

Appendix B.4. Construction Specifications for Environmental Site Design Practices
Table B.4.1 Materials Specifications for Micro-Biotretion, Rain Gardens & Landscape Infiltration-
Columns: Material, Specification, Size, Notes.

MICRO-BIOTRETENTION DATA CHART table with columns: Facility #, Ponding, Posing, Top of MBR, Bottom of MBR, Depth of Plant, Bottom of Plant, Bottom of Plant, Depth of Stone, Invert of Underdrain, Surface Area, Approx. Dimensions.

TEST PIT DATA table with columns: BORING #, APPROX EXIST GROUND ELEV, APPROX PROP GROUND ELEV, INVERT FACILITY / PRACTICE, MIN DEPTH TO GROUNDWATER, BOTTOM PIT, REQ PIT DEPTH, OBSERVATION.

HORVATH - MEASURED SUBAREA - ESDv COMPUTATIONS table with columns: DA, % IMPERV, Pv, DA, DA, S.P.F.A.M, 2.0" MAX, 1.0" MAX, VOLUME, BARRELS, IMPERV, GREEN, REMARKS.

OWNER/DEVELOPER
ZABLAH REAL ESTATE, LLC
224 N. FRANKLINTOWN ROAD
BALTIMORE, MD 21223
(410) 841-8920

REVISION table with columns: NO., REVISION, DATE.

SITE DEVELOPMENT PLAN
ESD STORMWATER MANAGEMENT
NOTES AND DETAILS
HORVATH PROPERTY
LOTS 1 AND 2
ZONED: R-ED & R-20
L21961/F.00193

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