

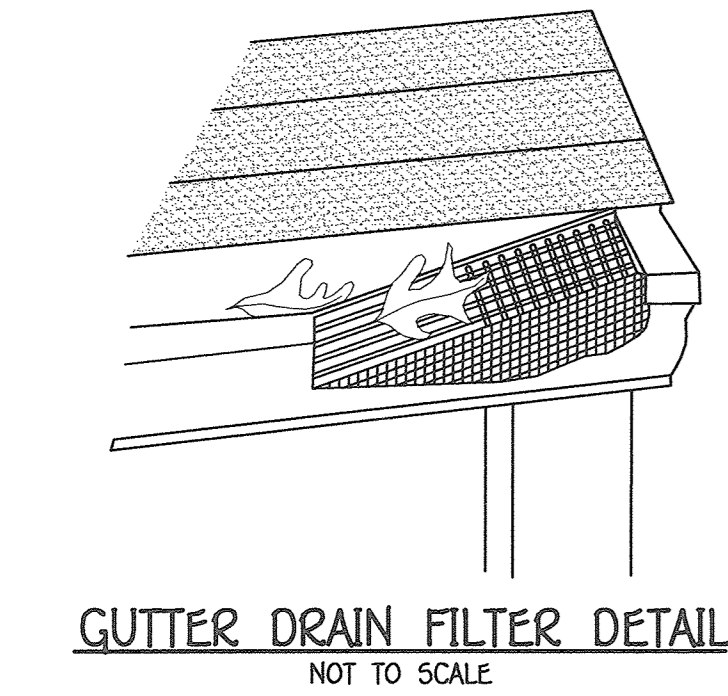
SHEET INDEX	
SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	SUPPLEMENTAL LANDSCAPE, SOILS, GRADING & SEDIMENT CONTROL PLAN

SOILS LEGEND			
SOIL	NAME	CLASS	K FACTOR
MaC	Major loam, 0 to 15 percent slopes	B	0.24
MAD	Major loam, 15 to 25 percent slopes	B	0.24

Soil Map Number: 13 (ELLCOTT CITY, SW)

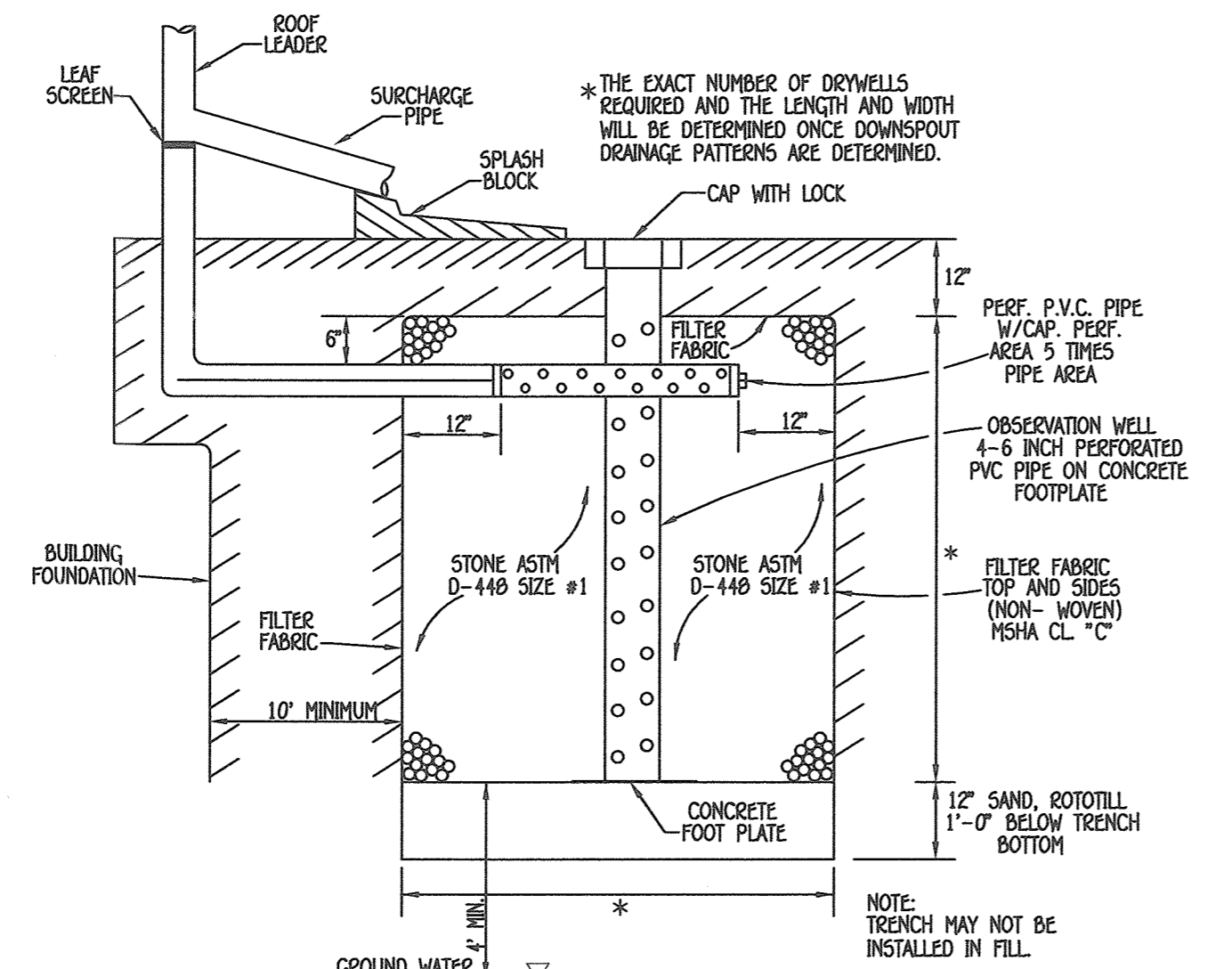
STORMWATER MANAGEMENT SUMMARY			
AREA ID.	ESD <sub>V</sub> REQUIRED CU.FT.	ESD <sub>V</sub> PROVIDED CU.FT.	REMARKS
SITE	1,159	1,184	DRYWELLS (M-5) & STONE TRENCH
TOTAL	1,159	1,184	

GROSS AREA = 2.59 ACRES  
 LOD = 0.80 ACRES (SITE)  
 RCN = 55  
 TARGET P<sub>e</sub> = 1.4" (USED BASED ON FULL DEVELOPMENT OF SITE UNDER PHASE 1 & 2)



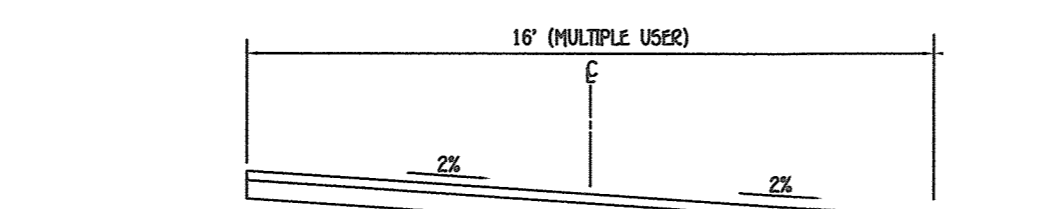
**STORMWATER MANAGEMENT NOTES**

- STORMWATER MANAGEMENT IS PROVIDED IN ACCORDANCE WITH CHAPTER 5, "ENVIRONMENTAL SITE DESIGN" OF THE 2007 MARYLAND STORMWATER MANAGEMENT DESIGN MANUAL, EFFECTIVE MAY 4, 2010.
- MAXIMUM CONTRIBUTING ROOF TOP AREA TO EACH DOWNSPOUT SHALL BE 1,000 SQ. FT. OR LESS.
- DRYWELLS SHALL BE PROVIDED AT LOCATIONS WHERE THE LENGTH OF DISCONNECTION IS LESS THAN 75' AT 5% THE SIZE AND CONSTRUCTION OF THE DRYWELL SHALL BE IN ACCORDANCE WITH THE DETAIL SHOWN ON THIS SHEET.
- FINAL GRADING IS SHOWN ON THIS SITE DEVELOPMENT PLAN.

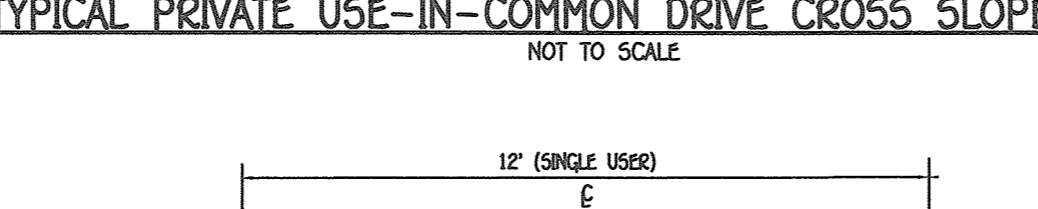


DRY WELL CHART					
DRYWELL NO.	AREA OF ROOF PER DOWN SPOUT	VOLUME REQUIRED	VOLUME PROVIDED	AREA OF TREATMENT	L W D
1A	750 SQ. FT.	84 C.F.	128 C.F.	100%	8' x 8' x 5'
1B	750 SQ. FT.	84 C.F.	128 C.F.	100%	8' x 8' x 5'
1C	750 SQ. FT.	84 C.F.	128 C.F.	100%	8' x 8' x 5'
1D	750 SQ. FT.	84 C.F.	128 C.F.	100%	8' x 8' x 5'

\* AREA OF TREATMENT EXCEEDS THAT REQUIRED.



NOTE: ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH HOWARD COUNTY DESIGN MANUAL VOLUME II, STANDARD SPECIFICATION AND DETAILS FOR CONSTRUCTION.



NOTE: ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH HOWARD COUNTY DESIGN MANUAL VOLUME II, STANDARD SPECIFICATION AND DETAILS FOR CONSTRUCTION.

Material	Specification	Size	Notes
Plantings	see Appendix A, Table A.4	n/a	plantings are site-specific
Planting soil	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)	n/a	
Mulch	shredded hardwood	No. 8 or No. 9 (1/8" to 3/8")	aged 6 months, minimum
Pea gravel diaphragm	pea gravel: ASTM-D-448	stone: 2" to 5"	
Curbside drain	ornamental stone: washed cobbles	n/a	PE Type 1 nonwoven
Geotextile	ASHTO M-43	No. 57 or No. 40 Aggregates (3/8" to 3/4")	
Underdrain piping	F 756, Type F5 2B or ASHTO M-27B	4" to 6" rigid schedule 40 PVC or SDR35	Slotted or perforated pipe; 3/8" slot, 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 inch galvanized hardware cloth
Poured in place concrete (if required)	NSHA, Mix No. 3; f = 3500 psi at 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 308.2R/99, vertical loading D1-10 or H-20; allowable horizontal loading (based on soil pressure); and analysis of potential cracking
Sand	ASHTO M-6 or ASTM-C-33	0.02" to 0.04"	Sand substitutions such as Diabase and Gneiss (ASHTO #10 are not acceptable. No calcium carbonate or diatom sand substitutions are acceptable. No "rock dust" can be used for sand.

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

**FISHER, COLLINS & CARTER, INC.**  
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
CENTRAL SOURCE OFFICE PARK - 10722 BALTIMORE NATIONAL PIKE  
ELLCOTT CITY, MARYLAND 21046  
(410) 461-2995

**OWNER/DEVELOPER**  
BETHANY LANE LLC  
PO BOX 482  
LISBON, MARYLAND 21765  
410-489-7900

Chief, Division of Land Development  
Date: 8-23-18

Chief, Development Engineering Division  
Date: 8-15-18

# SUPPLEMENTAL, LANDSCAPE, SOILS, GRADING & SEDIMENT CONTROL PLAN BETHANY RIDGE, LOT 1 & NON-BUILDABLE BULK PARCEL A TAX MAP No. 17 GRID No. 20 PARCEL NO. 132 SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND

LEGEND			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
---492---	EXISTING 2' CONTOURS	---	PROPOSED CONTOUR
---490---	EXISTING 10' CONTOURS	+	SPOT ELEVATION
GpC	SOILS LINES AND TYPE	---	LIMITS OF DISTURBANCE
GpC	EXISTING TREELINE	---	DRAINAGE AREA DIVIDE
○	INDIVIDUAL TREES & SHRUBS	---	SILT FENCE
---	EXISTING FENCE LINE	---	FLOW ARROWS
---	EXISTING & PROPOSED PAVING	---	STABILIZED CONSTRUCTION ENTRANCE
X	TREES TO BE REMOVED		

**GENERAL NOTES**

- 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 (HESB UTILITY) AT 1-800-237-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE.
- BOUNDARY SHOWN HEREON IS BASED ON FIELD RUN MONUMENTED BOUNDARY SURVEY PERFORMED BY FISHER, COLLINS & CARTER, INC. DATED MARCH 2017. TOPOGRAPHY SHOWN HEREON IS BASED ON A TOPOGRAPHIC SURVEY PERFORMED BY FISHER, COLLINS & CARTER, INC. IN MARCH 2017 AND SUPPLEMENTED WITH HOWARD COUNTY GIS TOPOGRAPHY AT 5' CONTOUR INTERVAL INTERPOLATED FOR 2' CONTOUR INTERVAL.
- 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. 17GM1 AND 17GR3 WERE USED FOR THIS PROJECT.
- PREVIOUS DPE FILE NUMBERS: VP-03-02, F-03-037, F-08-269, 5-96-07, F-98-017, F-98-112, WP-96-77, F-99-044, WP-17-129, ECP-18-003.
- STORM WATER MANAGEMENT IS IN ACCORDANCE WITH THE M.D.E. STORM WATER DESIGN MANUAL, VOLUMES I & II, REVISED 2009. NON-STRUCTURAL PRACTICES IN ACCORDANCE WITH CHAPTERS 5 ARE BEING UTILIZED. DRYWELLS (M-5) AND STONE TRENCH ARE PROPOSED. STORMWATER MANAGEMENT FOR A PORTION OF THE PROPOSED COMMON DRIVEWAY WILL BE PROVIDED WITH PHASE 2 ALONG WITH ROAD IMPROVEMENTS TO BETHANY LANE. SINCE STRUCTURES ARE BEING REMOVED THAT DID NOT HAVE STORMWATER MANAGEMENT ALREADY, LACK OF TREATMENT FOR THIS AREA IS FELT TO BE MITIGATED UNTIL CONSTRUCTION UNDER PHASE 2.
- THIS PROPERTY IS LOCATED INSIDE THE METROPOLITAN DISTRICT. LOTS TO BE SERVED PUBLIC WATER AND PRIVATE SEWER, CONTRACT #24-3749-D & 71-W.
- ANY DAMAGE TO THE COUNTY'S RIGHT-OF-WAY SHALL BE CORRECTED AT THE DEVELOPER'S EXPENSE.
- THE SUBJECT PROPERTY IS ZONED R-20 (PER DATE 10/06/2013 COMPREHENSIVE ZONING PLAN).
- NO 100 YEAR FLOODPLAIN, WETLANDS, STREAM(S) AND/OR THEIR BUFFERS, NOR STEEP SLOPES EXIST ON-SITE.
- NO FOREST STANDS EXIST ON-SITE. SEE ENVIRONMENTAL FINDINGS LETTER PREPARED BY ECO-SCIENCE PROFESSIONALS, INC. DATED SEPTEMBER 2017.
- THIS PROJECT IS SUBJECT TO FOREST CONSERVATION REQUIREMENTS. FOREST CONSERVATION FOR THE NON-BUILDABLE BULK PARCEL WILL BE PROVIDED WITH PHASE 2. THE REFORESTATION OBLIGATION OF 3,000 SQ.FT. (0.07 AC) FOR LOT 1 WILL BE MET BY USE OF THE TREE BANK AT FOREVER A FARM (SDP-14-009).
- SOIL BORINGS HAVE BEEN CONDUCTED FOR THIS PROJECT SINCE DRYWELLS AND A STONE TRENCH ARE BEING UTILIZED.
- THE PROPERTY CONTAINS ONE HISTORIC HOUSE, A HISTORIC TENANT HOUSE, THREE HISTORIC OUTBUILDINGS AND TWO HISTORIC BARN. THE HISTORIC DWELLING, KNOWN AS 3062 BETHANY LANE, IS PROPOSED TO BE REMOVED, ALONG WITH TWO OF THE ACCESSORY STRUCTURES. THIS PROJECT CAME BEFORE THE HISTORIC PRESERVATION COMMISSION ON APRIL 6, 2017 FOR ADVISORY COMMENTS IN CASE HPC-17-24. THE COMMISSION RECOMMENDED PRESERVING THE HISTORIC BARN, HISTORIC HOUSE AND HISTORIC OUTBUILDINGS.
- SOILS SHOWN HEREON ARE BASED ON THE NCS WESSOLO SURVEY AND HOWARD COUNTY SOIL MAP #13.
- THESE ARE NO CEMETERIES ON-SITE.
- SUBJECT PROPERTY ZONED R-20 PER 10/06/13 COMPREHENSIVE ZONING PLAN.
- ALL AREAS ARE MORE OR LESS (±).
- DISTANCES SHOWN ARE BASED ON SURFACE MEASUREMENT AND NOT REDUCED TO NAD '83 GRID MEASUREMENT.
- 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 SERVICES. THE FOLLOWING (MINIMUM) REQUIREMENTS:
  - WIDTH - 12 FEET (16 FEET SERVING MORE THAN ONE RESIDENCE);
  - SURFACE - SIX (6") INCHES OF COMPACTED CRUSHER RUN BASE WITH TAR AND CHIP COATING.
  - MINIMUM 12" MINIMUM;
  - GRADE - MAXIMUM 15% GRADE, MAXIMUM 10% GRADE CHANGE AND 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 SURFACE;
  - STRUCTURE CLEARANCE - MINIMUM 12 FEET;
  - MAINTENANCE - SUFFICIENT TO ENSURE ALL WEATHER USE.
- THERE ARE NO FOREST STANDS EXISTING ON-SITE. SEE ENVIRONMENTAL FINDINGS LETTER PREPARED BY ECO-SCIENCE PROFESSIONALS, INC. DATED SEPTEMBER 2017.
- SITE IS NOT ADJACENT TO A SCENIC ROAD.
- WATER AND SEWER SERVICE TO THESE LOTS WILL BE GRANTED UNDER THE PROVISIONS OF SECTION 10.122B OF THE HOWARD COUNTY CODE.
- PUBLIC WATER AND SEWER ALLOCATION WILL BE GRANTED AT THE TIME OF ISSUANCE OF THE BUILDING PERMIT IF CAPACITY IS AVAILABLE AT THAT TIME.
- THIS PLAN IS SUBJECT TO THE AMENDED FIFTH EDITION OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS, DEVELOPMENT OR CONSTRUCTION ON THESE LOTS MUST COMPLY WITH SETBACK AND BUFFER REGULATIONS IN EFFECT AT THE TIME OF SUBMISSION OF THE SITE DEVELOPMENT PLAN AND/OR BUILDING APPLICATION PERMIT.
- ARTICLES OF INCORPORATION FOR THE BETHANY RIDGE HOMEOWNERS ASSOCIATION, INC. IS FILED WITH THE MARYLAND STATE DEPARTMENT OF ASSESSMENTS AND TAXATION ON AUGUST 1, 2018 AS ACCOUNT NO. 1000362011438993.
- THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL FINANCIAL GUIDELINES FOR THE LANDSCAPED PERMITS LANDSCAPING WILL BE PROVIDED AS PART OF THE DPW DEVELOPERS AGREEMENT IN THE AMOUNT \$2,100 BASED ON (4) SHADE TREES @ \$300.00 EACH AND (6) EVERGREENS @ \$150.00 EACH.
- SITE DEVELOPMENT PLAN APPROVAL BY THE DEPARTMENT OF PLANNING AND ZONING IS REQUIRED PRIOR TO BUILDING PERMITS BEING ISSUED FOR THE CONSTRUCTION OF RESIDENTIAL DWELLINGS ON THESE LOTS.
- THIS DEVELOPMENT IS DESIGNED TO BE IN ACCORDANCE WITH SECTION 16.127 - RESIDENTIAL INFILL DEVELOPMENT OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS. THE DEVELOPER OF THIS PROJECT SHALL CREATE COMPATIBILITY WITH THE EXISTING NEIGHBORHOOD THROUGH THE USE OF ENHANCED PERIMETER LANDSCAPING, BERMS, FENCES, SIMILAR HOUSING UNIT TYPES AND THE DIRECTIONAL ORIENTATION OF THE PROPOSED HOUSE.
- THERE ARE NO WETLANDS ON THIS SITE, AS STATED IN A LETTER OF FINDINGS DATED SEPTEMBER, 2017 PREPARED BY ECO-SCIENCE PROFESSIONALS, INC.
- A COMMUNITY MEETING WAS CONDUCTED MARCH 13, 2017 FOR THE PURPOSE OF THE DEVELOPER TO PROVIDE INFORMATION TO THE COMMUNITY REGARDING THE PROPOSED RESIDENTIAL DEVELOPMENT AND TO ALLOW THE COMMUNITY TO ASK QUESTIONS AND TO MAKE COMMENTS, PER SECTION 16.122(D) OF THE SUBDIVISION REGULATIONS.
- THIS PROPERTY IS LOCATED WITHIN THE METROPOLITAN DISTRICT AND WILL BE SERVED BY PUBLIC WATER AND SEWER.
- SUBDIVISION IS SUBJECT TO SECTION 10.01.F OF THE ZONING REGULATIONS. AT LEAST 10% OF THE DWELLING UNITS SHALL BE MODERATE INCOME HOUSING UNITS (M.I.H.U.) OR AN ALTERNATIVE COMPLIANCE WILL BE PROVIDED. THE DEVELOPER SHALL EXECUTE A M.I.H.U. AGREEMENT WITH THE DEPARTMENT OF HOUSING TO INDICATE HOW THE M.I.H.U. AGREEMENT WILL BE MET. THE M.I.H.U. AGREEMENT AND COVENANTS WILL BE RECORDED SIMULTANEOUSLY WITH THIS PLAN IN THE LAND RECORDS OFFICE OF HOWARD COUNTY, MARYLAND. THIS DEVELOPMENT WILL MEET M.I.H.U. ALTERNATIVE COMPLIANCE BY A PAYMENT TO THE DEPARTMENT OF HOUSING FOR EACH REGULATED UNIT.
  - M.I.H.U. REQUIRED - (1 LOT X 10%) = 0.1 M.I.H.U.
  - M.I.H.U. PROVIDED - DEVELOPER WILL PURSUE ALTERNATIVE COMPLIANCE BY PAYING A FEE-IN-LIEU TO THE HOWARD COUNTY HOUSING DEPARTMENT FOR THE UNITS REQUIRED BY THE DEVELOPMENT.
  - AN EXECUTED M.I.H.U. AGREEMENT WITH THE HOWARD COUNTY HOUSING DEPARTMENT HAS BEEN COMPLETED AND RECORDED SIMULTANEOUSLY WITH THIS PLANNING NOISE STUDY IS REQUIRED BECAUSE THE PROJECT DOES NOT FALL WITHIN THE GUIDELINES OF DESIGN MANUAL, VOLUME III, ROADS, BRIDGES, SECTION 5.2.F.2.
- THE HISTORIC RESIDENTIAL DWELLING (3062 BETHANY LANE) IS PROPOSED TO BE REMOVED. A MEETING WITH THE HISTORIC DISTRICT COMMISSION ON APRIL 6, 2017 APPROVED THE REMOVAL OF THE DWELLING (HPC-17-24).
- THE LOTS CREATED BY THIS SUBDIVISION PLAN ARE SUBJECT TO A FEE OR AN ASSESSMENT TO COVER OR DEFRAY ALL OR PART OF THE DEVELOPER'S COST OF THE INSTALLATION OF THE WATER AND SEWER FACILITIES. PURSUANT TO THE HOWARD COUNTY CODE SECTION 18.112, THIS FEE OR ASSESSMENT, WHICH RUNS WITH THE LAND, IS A CONTRACTUAL OBLIGATION BETWEEN THE DEVELOPER AND EACH OWNER OF THIS PROPERTY AND IS NOT IN ANY WAY A FEE OR ASSESSMENT OF HOWARD COUNTY.
- THE 24' PRIVATE USE-IN-COMMON DRIVEWAY EASEMENT FOR THE USE AND BENEFIT OF LOT 1 AND NON-BUILDABLE BULK PARCEL 'A' (FUTURE LOTS 2 THRU 5) AND MAINTENANCE AGREEMENT IS RECORDED SIMULTANEOUSLY WITH THIS PLAN.
- NON-BUILDABLE BULK PARCEL 'A' IS NON-BUILDABLE PER THE DEFINITION IN THE SUBDIVISION REGULATIONS FOR HOUSING UNIT LOCATIONS ONLY.
- OPEN SPACE REQUIREMENT FOR BETHANY RIDGE WAS PROVIDED WITH GERMAN PROPERTY, F-99-044 RECORDED AS PLAT NOS. 14995 AND 14996. OPEN SPACE TABULATION:
  - TOTAL OPEN SPACE REQUIRED = 3.629 ACRES
  - GERMAN PROPERTY (F-99-044) = 3.478 ACRES (11,994 ACRES X 30%)
  - BETHANY RIDGE (NOT INCLUDED IN F-99-044) = 0.151 ACRES (2,509 ACRES X 6%)
  - TOTAL OPEN SPACE PROVIDED (F-99-044) = 4.182 ACRES
- ON JULY 19, 2017, THE PLANNING DIRECTOR APPROVED THE ALTERNATIVE COMPLIANCE (WP-17-129) TO SECTION 16.119(F)(1) REQUIRING A RESIDENTIAL SUBDIVISION WHICH FRONTS A MAJOR COLLECTOR TO ACCESS THE SUBDIVISION WITH A LOWER CLASSIFICATION PUBLIC ROAD AND SECTION 16.120(A) (7) AND (10) WHICH PROHIBITS REMOVAL OF 5 SPECIMEN TREES, BUT DENIED ALTERNATIVE COMPLIANCE TO SECTION 16.132(A) REQUIRING THE CONSTRUCTION OF SIDEWALKS AND SECTION 16.132(A)(3)(C)(1) REQUIRING ROAD IMPROVEMENTS ON UP TO ONE-HALF OF THE MINIMUM USABLE PAVEMENT WIDTH FOR THE SUBDIVISION ROAD.

APPROVAL IS SUBJECT TO THE FOLLOWING CONDITIONS:

- COMPLIANCE WITH ALL SUBDIVISION REVIEW COMMITTEE COMMENTS.
- THE SUBDIVISION PLAN MUST COMPLY WITH SECTION 16.127 (RESIDENTIAL INFILL DEVELOPMENT) OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS.
- THE ALTERNATIVE COMPLIANCE APPLICATION NUMBER (WP-17-129) AND ITS CONDITIONS OF APPROVAL MUST BE ADDED TO ALL SUBDIVISION PLANS AND FINAL PLAT.
- THE DEVELOPER SHALL PLANT TEN (10) 3" MINIMUM CALIPER NATIVE SHADE TREES IN ADDITION TO THE REQUIRED PERIMETER LANDSCAPING TO MITIGATE THE REMOVAL OF THE ADDITIONAL TREES ON THE FINAL PLAN AND ALL SUBSEQUENT PLANS. THESE TREES WILL BE BONDED WITH THE DEVELOPER'S AGREEMENT UNDER THE FINAL SUBDIVISION PLAN.
- THE ALTERNATIVE COMPLIANCE APPLICATION APPROVAL APPLIES ONLY TO THE 5 SPECIMEN TREES TO BE REMOVED AS SHOWN ON THE ALTERNATIVE COMPLIANCE APPLICATION. THE REMOVAL OF ANY OTHER SPECIMEN TREES ON THE PROPERTY IS NOT PERMITTED UNLESS IT CAN BE SUFFICIENTLY DEMONSTRATED BY THE APPLICANT TO BE JUSTIFIED.

DETAIL WAS BASED ON THE FOLLOWING REASONS:

- THERE IS AN EXISTING SIDEWALK WITHIN 150' OF THE SUBDIVISION. THE CONTINUATION OF THE EXISTING SIDEWALK WILL PROVIDE A PEDESTRIAN CONNECTION TO THE EXISTING CHURCH AND PATIENT OVERLOOK COURT, THIS PROVIDING COMPLETE PEDESTRIAN ACCESS TO 35 HOMES.
- THE REQUIRED AND INTEGRATED DEVELOPMENT OF THE PROJECT REQUIRES THE OWNER/DEVELOPER TO CONSTRUCT THE MINIMUM REQUIRED INFRASTRUCTURE IMPROVEMENTS.
- IN ACCORDANCE WITH DEVELOPMENT ENGINEERING DIVISION COMMENTS DATED JULY 10, 2017 AND OFFICE OF TRANSPORTATION COMMENTS DATED JULY 17, 2017:
- IT IS THE GOAL OF HOWARD COUNTY TO PROMOTE SAFE AND ACCESSIBLE PEDESTRIAN CONNECTIVITY BETWEEN NEW DEVELOPMENTS AND SUBSURROUNDING LAND USES.
- THE SIDEWALK AND ROAD IMPROVEMENT REQUIREMENT IS CONSISTENT WITH THE LEGISLATIVE INTENT OF THE REGULATIONS FOR THE ORDERLY, EFFICIENT AND INTEGRATED DEVELOPMENT OF THE PROJECT REQUIRES THE OWNER/DEVELOPER TO FACILITATE SAFE PEDESTRIAN TRAVEL OR THE EXTENSION OF A SIDEWALK SYSTEM ALONG PUBLIC ROADS AS A MEANS TO SEPARATE VEHICULAR AND PEDESTRIAN TRAFFIC.

**TITLE SHEET**  
**BETHANY RIDGE, LOT 1 &  
 NON-BUILDABLE BULK PARCEL A  
 (A RESUBDIVISION OF GERMAN PROPERTY, LOT 22)**  
 3062 BETHANY LANE (9015 BARNHILL COURT)

ZONED: R-20  
 PARCEL: 132  
 HOWARD COUNTY, MARYLAND  
 SECOND ELECTION DISTRICT  
 SCALE: AS SHOWN  
 DATE: MAY, 2018  
 SHEET 1 OF 2

**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. 38366, EXPIRATION DATE: 01/12/2020.

*Stephan Tute* 8/2/18  
 Signature of Professional Engineer DATE

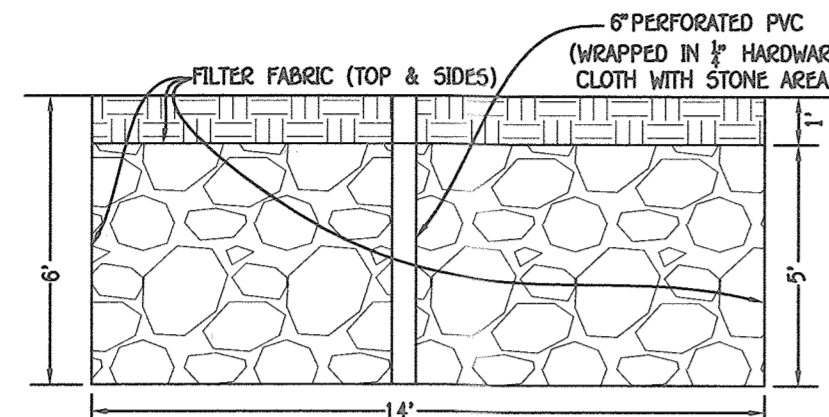
**STATE OF MARYLAND**  
 PROFESSIONAL ENGINEER

**F-18-010**

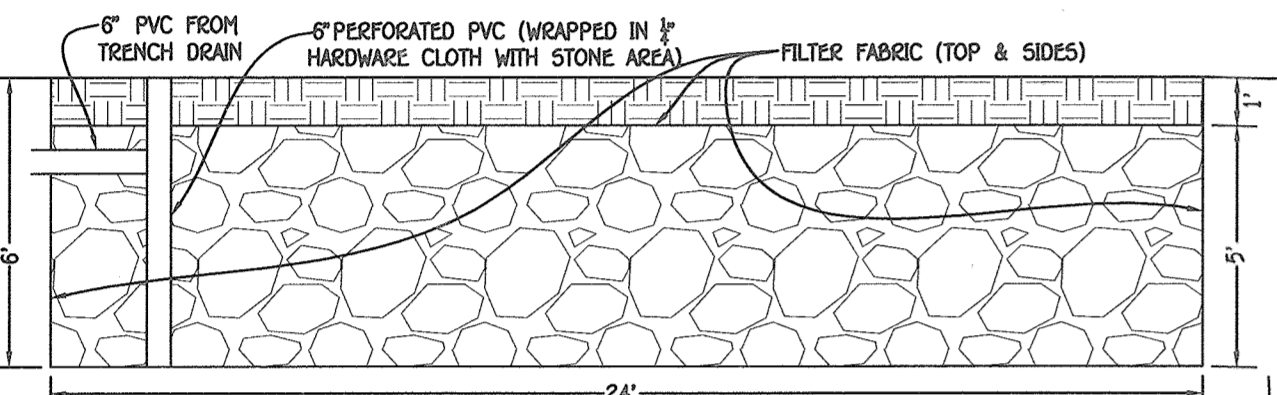


SCHEDULE A - PERIMETER LANDSCAPE EDGE				
PERIMETER	P-1	P-2	P-3	TOTAL
CATEGORY	ADJACENT TO PERIMETER PROPERTIES	FRONT TO ROADWAY	ADJACENT TO PERIMETER PROPERTIES	
LANDSCAPE TYPE	A	N/A	B	
LINEAR FEET OF PERIMETER	163 L.F.	110 L.F.	225 L.F.	
NUMBER OF PLANTS REQUIRED	3	0	4	7
SHADE TREES	(163'/60' = 2.7 OR 3)		(225'/60' = 3.75 OR 4)	
EVERGREEN TREES	0	0	0	0
CREDIT FOR EXISTING VEGETATION	0	0	0	0
SHADE TREES	0	0	0	0
SMALL/MEDIUM DECIDUOUS TREES (2:1 SUBSTITUTION)	0	0	0	0
NUMBER OF PLANTS PROVIDED	2	0	2	4
SHADE TREES	2	0	2	4
EVERGREEN TREES	0	0	0	0

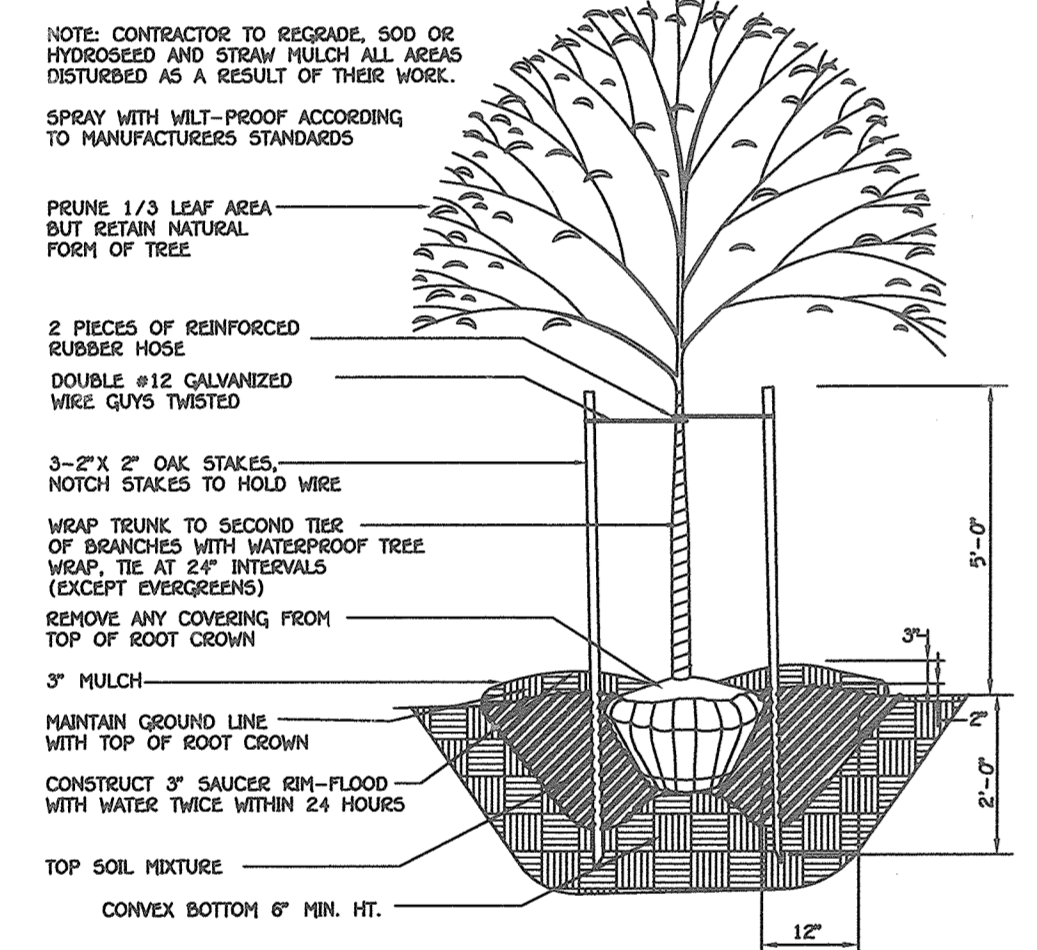
LANDSCAPING PLANT LIST			
QTY.	KEY	NAME	SIZE
2		ACER RUBRUM 'OCTOBER GLORY' (OCTOBER RED MAPLE)	2 1/2" - 3" CALIPER FULL CROWN, B&B
2		PRUNUS SARGENTII (SARGENT CHERRY)	2 1/2" - 3" CALIPER FULL CROWN, B&B
6		TRILIA STANHOPEI X PULICATA (GREEN GIANT ARBOVITAE)	5'-6" HT. B&B



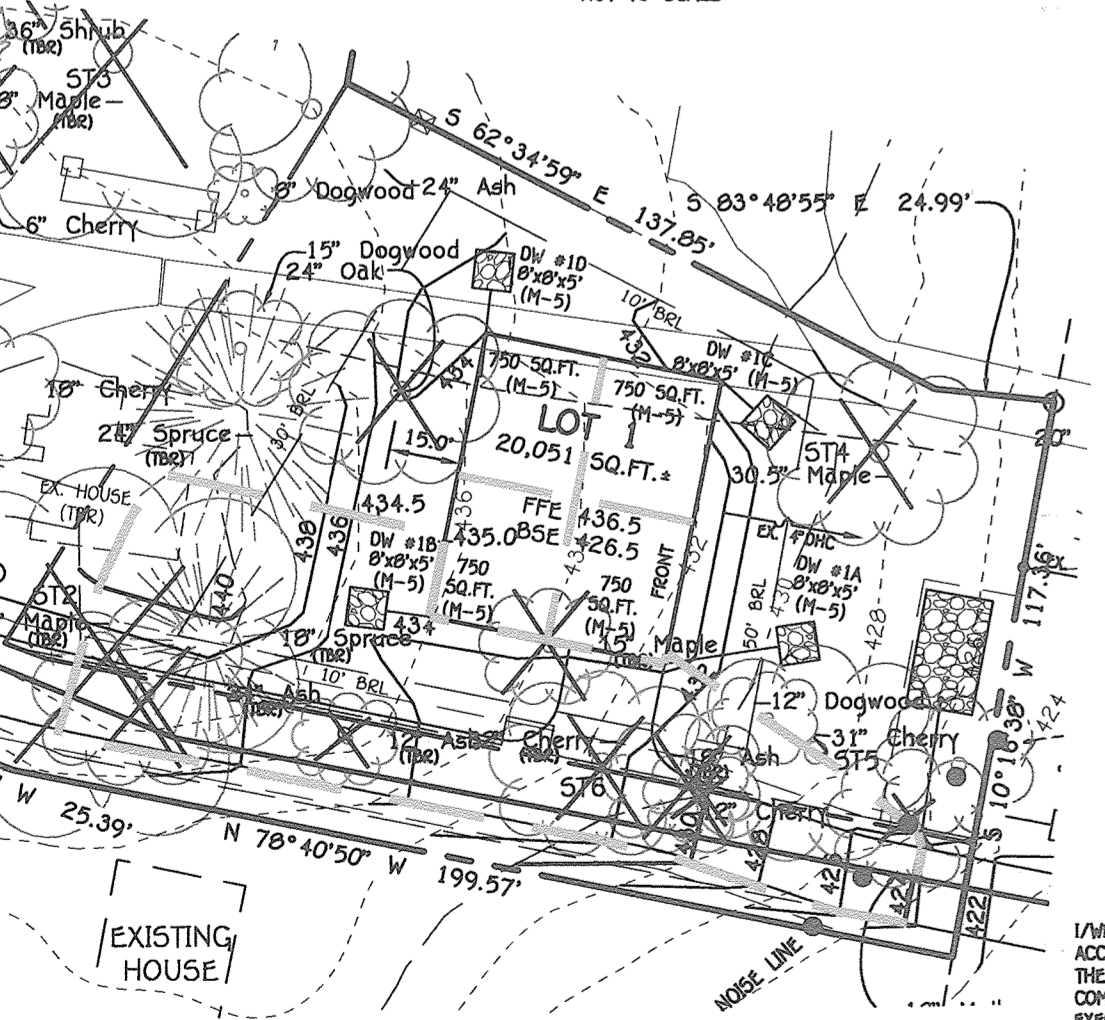
**STONE TRENCH (WIDTH)**  
SCALE: 1" = 4"



**STONE TRENCH (LENGTH)**  
SCALE: 1" = 4"



**TREE PLANTING DETAIL**  
NOT TO SCALE



**SWM DRAINAGE AREAS**  
SCALE: 1" = 40'

**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 LETTER OF LANDSCAPE INSTALLATION ACCOMPANIED BY AN EXECUTED ONE YEAR GUARANTEE OF PLANT MATERIALS WILL BE SUBMITTED TO THE DEPARTMENT OF PLANNING AND ZONING.

NAME: *[Signature]* DATE: 8/2/18

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

**FISHER, COLLINS & CARTER, INC.**  
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
CENTRAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE  
ELLSWORTH CITY, MARYLAND 21042  
(410) 461-2895

Chief, Division of Land Development  
8-23-18  
Date  
8-15-18  
Date

**OWNER/DEVELOPER**  
BETHANY LANE LLC  
PO BOX 482  
LIBSON, MARYLAND 21765  
410-499-7900

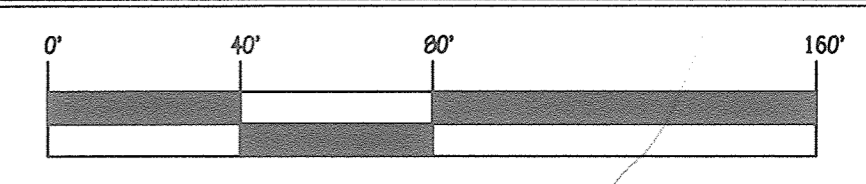
**LANDSCAPING, GRADING, & SEDIMENT CONTROL PLAN**  
SCALE: 1" = 40'

**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. 36366, EXPIRATION DATE: 01/12/2020.  
*[Signature]* 8/2/18  
DATE

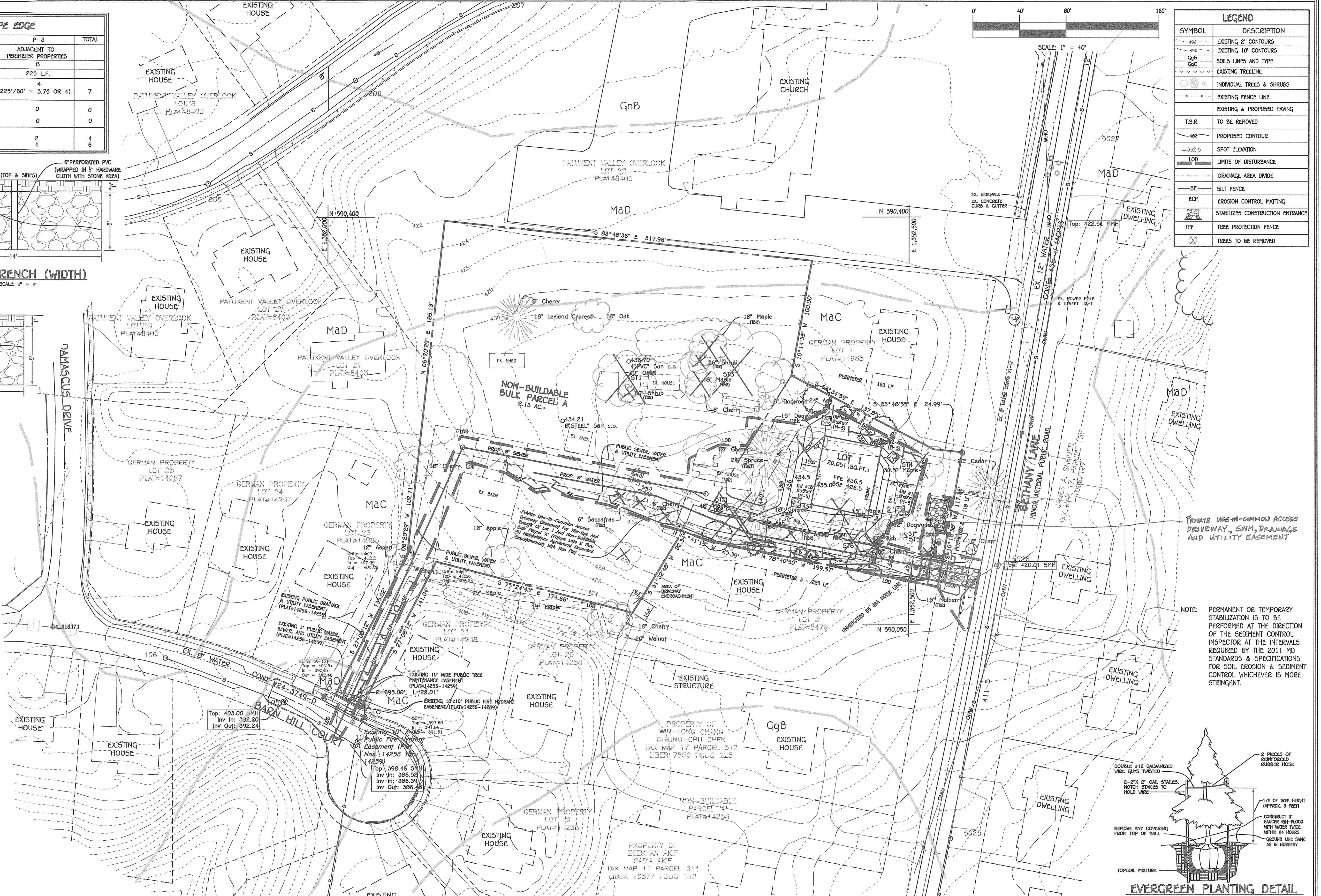


**SUPPLEMENTAL, LANDSCAPE, SOILS, GRADING & SEDIMENT CONTROL PLAN**  
**BETHANY RIDGE, LOT 1 & NON-BUILDABLE BULK PARCEL A (A RESUBDIVISION OF GERMAN PROPERTY, LOT 22)**  
3062 BETHANY LANE (9015 BARNHILL COURT)  
ZONED: R-20  
TAX MAP #17 PARCEL: 132  
SECOND ELECTION DISTRICT: HOWARD COUNTY, MARYLAND  
SCALE: AS SHOWN DATE: MAY, 2018  
SHEET 2 OF 2

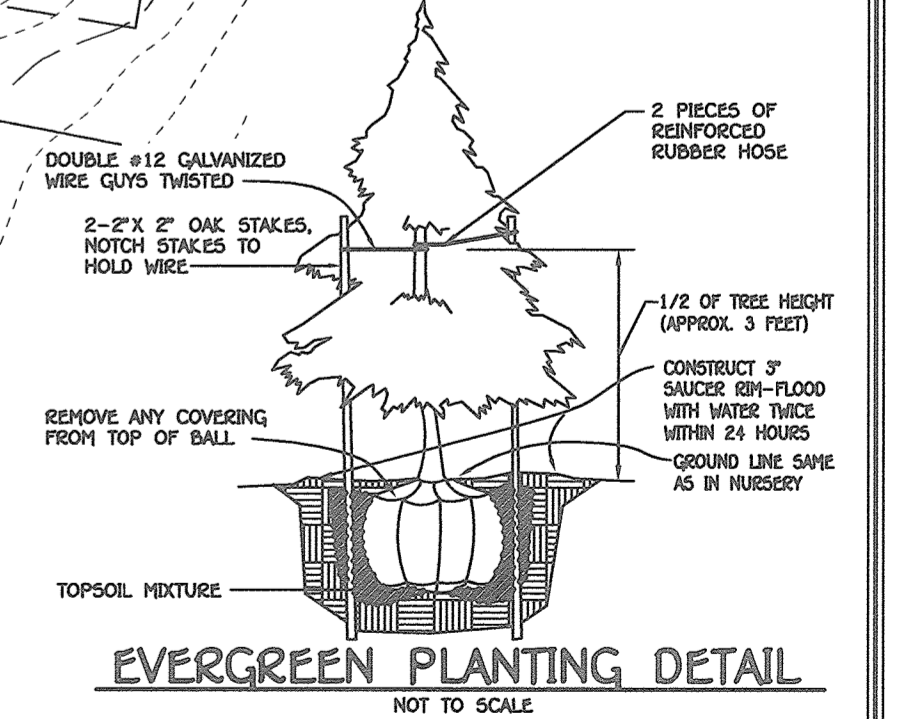
LEGEND	
SYMBOL	DESCRIPTION
	EXISTING 2' CONTOURS
	EXISTING 10' CONTOURS
	SOILS LINES AND TYPE
	EXISTING TREELINE
	INDIVIDUAL TREES & SHRUBS
	EXISTING FENCE LINE
	EXISTING & PROPOSED PAVING
	T.B.R. TO BE REMOVED
	PROPOSED CONTOUR
	+362.5 SPOT ELEVATION
	LOD LIMITS OF DISTURBANCE
	DRAINAGE AREA DIVIDE
	5F SILT FENCE
	ECM EROSION CONTROL MATTING
	STABILIZES CONSTRUCTION ENTRANCE
	TPF TREE PROTECTION FENCE
	TREES TO BE REMOVED



SCALE: 1" = 40'



NOTE: PERMANENT OR TEMPORARY STABILIZATION IS TO BE PERFORMED AT THE DIRECTION OF THE SEDIMENT CONTROL INSPECTOR AT THE INTERVALS REQUIRED BY THE 2011 MD STANDARDS & SPECIFICATIONS FOR SOIL EROSION & SEDIMENT CONTROL WHICH EVER IS MORE STRINGENT.



**EVERGREEN PLANTING DETAIL**  
NOT TO SCALE

K:\Drawings\310353\German Property\German Property - Lots 27 thru 31\dwg\310353-2\_Support Plan SW 8/12/2018 9:26:38 PM 11