



**Building Permit Application**  
Howard County Maryland  
Department of Inspections, Licenses and Permits  
3430 Court House Drive  
Permits: 410-313-2455  
www.howardcountymd.gov

Date Received: 3-12-13

Permit No.: B13000887

Building Address: 8035 Hunterbrook Ln.  
City: Fulton State: MD Zip Code: 20759  
Suite/Apt. #: \_\_\_\_\_ SDP/WP/BA #: \_\_\_\_\_  
Census Tract: \_\_\_\_\_ Subdivision: Hunterbrook  
Section: \_\_\_\_\_ Area: \_\_\_\_\_ Lot: \_\_\_\_\_  
Tax Map: 46 Parcel: Block 2 Grid: \_\_\_\_\_  
Zoning: R-DE0 Map Coordinates: \_\_\_\_\_ Lot Size: 3.0006 AC.

Property Owner's Name: John + Kallopi Polizas  
Address: PO Box 4727  
City: Silver Spring State: MD Zip Code: 20904  
Phone: 301-404-1127 Fax: 301-490-5573  
Email: kallopi7674@yahoo.com

Applicant's Name & Mailing Address, (if other than stated herein)  
Applicant's Name: \_\_\_\_\_  
Address: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_  
Phone: \_\_\_\_\_ Fax: \_\_\_\_\_  
Email: \_\_\_\_\_

Existing Use: Vacant lot  
Proposed Use: residential home  
Estimated Construction Cost: \$ 625K  
Description of Work:  
single family home

Contractor Company: Oakhill Construction  
Contact Person: Terry Conrad  
Address: 16910 Oakhill Rd.  
City: Silver Spring State: MD Zip Code: 20905  
License No.: 3316  
Phone: 301-440-6422 Fax: 301-421-9438  
Email: teconradie@aol.com

Occupant or Tenant:  
Was tenant space previously occupied?  Yes  No  
Contact Name: Kallopi + John Polizas  
Address: PO Box 4727  
City: Silver Spring State: MD Zip Code: 20914  
Phone: 301-404-1127 Fax: 301-490-5573  
Email: kallopi7674@yahoo.com

Engineer/Architect Company: Jonathan Rivera  
Responsible Design Prof.: 15563408  
Address: 1242 Morgan Station Rd.  
City: Woodbine State: MD Zip Code: 21797  
Phone: 443-226-5745 Fax: N/A  
Email: jrivera@jra-design.com

Commercial Building Characteristics	Residential Building Characteristics	
Height:	<input checked="" type="checkbox"/> SF Dwelling <input type="checkbox"/> SF Townhouse	
No. of stories:	Depth	Width
Gross area, sq. ft./floor:	1 <sup>st</sup> floor:	
	2 <sup>nd</sup> floor:	
Area of construction (sq. ft.):	Basement:	
	<input type="checkbox"/> Finished Basement	
Use group:	<input checked="" type="checkbox"/> Unfinished Basement	
	<input type="checkbox"/> Crawl Space	
	<input type="checkbox"/> Slab on Grade	
<b>Construction type:</b>	No. of Bedrooms:	
<input type="checkbox"/> Reinforced Concrete	Multi-family Dwelling	
<input type="checkbox"/> Structural Steel	No. of efficiency units:	
<input type="checkbox"/> Masonry	No. of 1 BR units:	
<input type="checkbox"/> Wood Frame	No. of 2 BR units:	
<input type="checkbox"/> State Certified Modular	No. of 3 BR units:	
	Other Structure:	
	Dimensions:	
	Footings:	
	Roof:	
	<input type="checkbox"/> State Certified Modular	
	<input type="checkbox"/> Manufactured Home	
Roadside Tree Project Permit	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Roadside Tree Project Permit #	<input type="checkbox"/> State Certified Modular	
	<input type="checkbox"/> Manufactured Home	

Utilities	
<b>Water Supply</b>	
<input type="checkbox"/> Public	
<input checked="" type="checkbox"/> Private	
<b>Sewage Disposal</b>	
<input type="checkbox"/> Public	
<input checked="" type="checkbox"/> Private	
Electric: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Gas: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
<b>Heating System</b>	
<input type="checkbox"/> Electric <input type="checkbox"/> Oil	
<input checked="" type="checkbox"/> Natural Gas <input type="checkbox"/> Propane Gas	
<input type="checkbox"/> Other:	
<b>Sprinkler System:</b>	
<input type="checkbox"/> Yes <input type="checkbox"/> No	
Grading Permit Number: <u>G13000883</u>	
Building Shell Permit Number: _____	

THE UNDERSIGNED HEREBY CERTIFIES AND AGREES AS FOLLOWS: (1) THAT HE/SHE IS AUTHORIZED TO MAKE THIS APPLICATION; (2) THAT THE INFORMATION IS CORRECT; (3) THAT HE/SHE WILL COMPLY WITH ALL REGULATIONS OF HOWARD COUNTY WHICH ARE APPLICABLE THERETO; (4) THAT HE/SHE WILL PERFORM NO WORK ON THE ABOVE REFERENCED PROPERTY NOT SPECIFICALLY DESCRIBED IN THIS APPLICATION; (5) THAT HE/SHE GRANTS COUNTY OFFICIALS THE RIGHT TO ENTER ONTO THIS PROPERTY FOR THE PURPOSE OF INSPECTING THE WORK PERMITTED AND POSTING NOTICES.

Applicant's Signature: [Signature]  
Email Address: kallopi7674@yahoo.com

Print Name: Kallopi Polizas  
Date: 3/12/13

Title/Company: \_\_\_\_\_  
Checks Payable to: DIRECTOR OF FINANCE OF HOWARD COUNTY

\*\*PLEASE WRITE NEATLY & LEGIBLY\*\*  
FOR OFFICE USE ONLY

AGENCY	DATE	SIGNATURE OF APPROVAL
<input checked="" type="checkbox"/> State Highways		
<input checked="" type="checkbox"/> Building Officials		
<input checked="" type="checkbox"/> PSZA (Zoning)		
<input checked="" type="checkbox"/> PSZA (Engineering)		
<input checked="" type="checkbox"/> Health		<u>[Signature]</u>

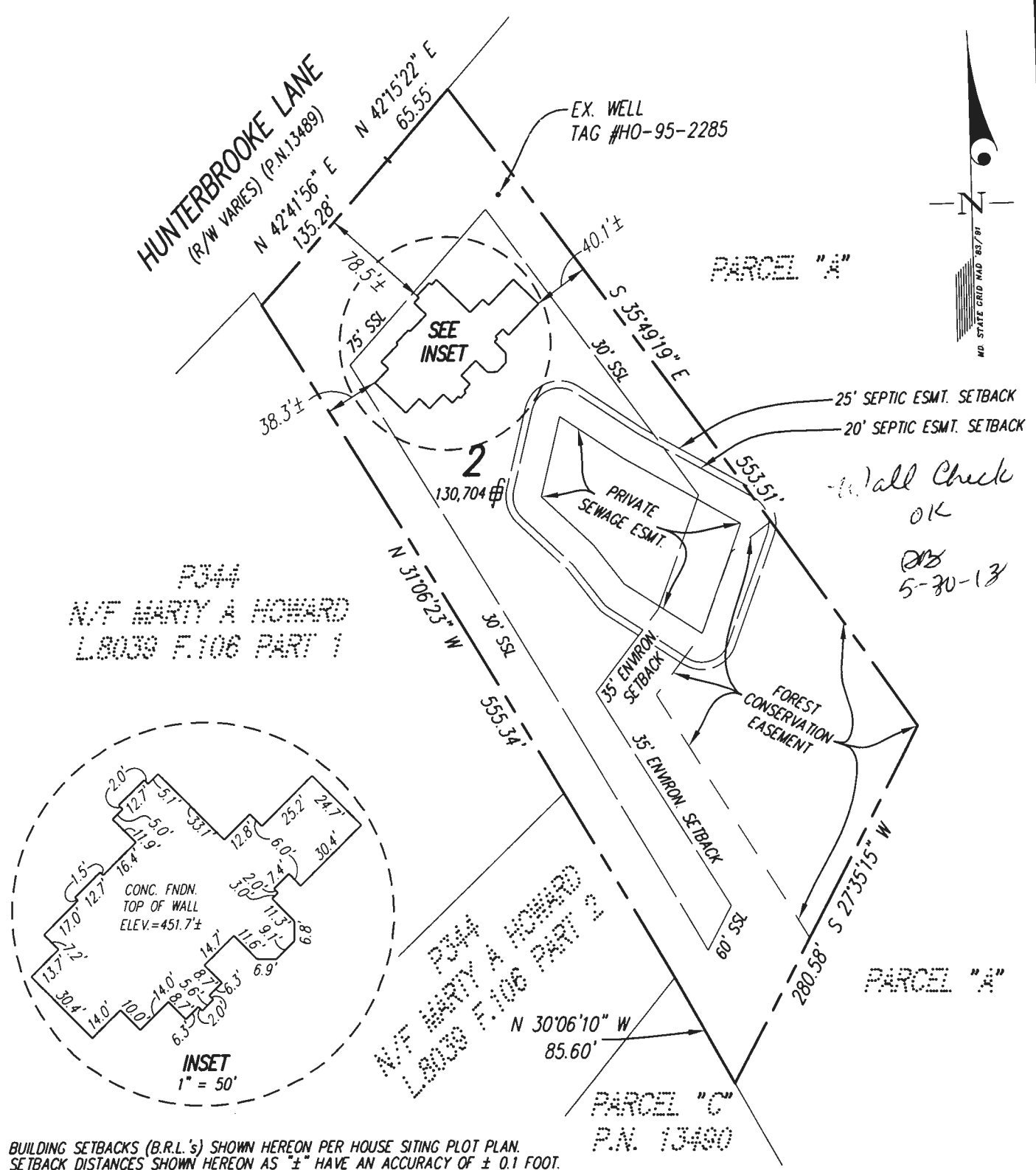
Is Sediment Control approval required for issuance?  Yes  No  
 CONTINGENCY CONSTRUCTION START

DPZ SETBACK INFORMATION	
Front:	
Rear:	
Side:	
Side St.:	
All minimum setbacks met?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Is Entrance Permit Required?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Historic District?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Lot Coverage for New Town Zone:	
SDP/Red-line approval date:	

Filing Fee	\$ <u>100</u>
Permit Fee	\$
Tech Fee	\$
Excise Tax	\$
PSFS	\$
Guaranty Fund	\$ <u>50</u>
Add'l per Fee	\$
Total Fees	\$
Sub-Total Paid	\$
Balance Due	\$
Check	# <u>1569</u>

Distribution of Copies: White: Building Officials Green: PSZA,Zoning Yellow: PSZA,Engineering Pink: Health Gold: SHA  
T:\Operations\Updated Forms\Building applmp B.2012.docx

THIS WALLCHECK WAS PREPARED WITHOUT THE BENEFIT OF A CURRENT TITLE REPORT. THIS PROPERTY IS SUBJECT TO ANY AND ALL EASEMENTS, RIGHTS-OF-WAY, COVENANTS, AND RESTRICTIONS, ETC. OF RECORD, SOME OR ALL OF WHICH MAY OR MAY NOT BE SHOWN AND/OR REFERENCED HEREON. BEARINGS AND DISTANCES OF THE PROPERTY BOUNDARY LINES SHOWN HEREON ARE PER AVAILABLE RECORDS AND HAVE NOT BEEN FIELD VERIFIED. THIS IS NOT A "LOCATION DRAWING" AND IS NOT TO BE USED FOR SETTLEMENT PURPOSES.



BUILDING SETBACKS (B.R.L.'s) SHOWN HEREON PER HOUSE SITING PLOT PLAN. SETBACK DISTANCES SHOWN HEREON AS "±" HAVE AN ACCURACY OF ± 0.1 FOOT.

**GLW GUTSCHICK LITTLE & WEBER, P.A.**  
CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS  
3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK  
BURTONSVILLE, MARYLAND 20866  
TEL: 301-421-4024 BALT: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186

THE PROPERTY SHOWN HEREON LIES WITHIN ZONE C (AREA OF MINIMAL FLOODING) AS SHOWN ON THE F.E.M.A. FLOOD INSURANCE RATE MAP, COMMUNITY PANEL No. 240044 0042 B, REVISED DECEMBER 4, 1986.

REFERENCE : PLAT No.	21966
DATE OF LATEST FIELD WORK:	05-24-13
DRAWN BY :	MP
CHECKED BY :	TBY
SCALE :	1" = 100'
GL.W. FILE No.	13005

**SURVEYOR'S CERTIFICATE**

THIS IS TO CERTIFY TO:  
'KALIOPI & JOHN POLIZOS';

THAT TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, THE POSITION OF THE ABOVE REFERENCED BUILDING FOUNDATION HAS BEEN ESTABLISHED BY ACCEPTED FIELD PRACTICES.

*[Signature]* 5/29/2013  
For Gutschick, Little and Weber, P.A. :  
Thomas C. O'Connor, Jr.,  
Professional Land Surveyor, No. 10954 (EXP. DATE: 07/03/2014)

**WALLCHECK (SPECIAL PURPOSE SURVEY)**

**"SAINT PAUL'S LUTHERN CHURCH PROPERTY"**  
**LOT 2**

**8035 HUNTERBROOKE LANE**

**HOWARD COUNTY, MARYLAND**

THIS WALLCHECK IS VALID ONLY WITH AN ORIGINAL SIGNATURE AND EMBOSSED SEAL OF THE ABOVE SURVEYOR.

S:\Survey Drawings\WALLCHECK\ST PAULS CHURCH-12046113005-WCK-LOT-2.dwg, LGL-WCK-NW, 5/29/2013 11:20:24 AM, mlkep, 1:1

**BIO-RETENTION GENERAL NOTES**

- MATERIAL SPECIFICATIONS**  
THE ALLOWABLE MATERIALS TO BE USED IN BIORETENTION AREA ARE DETAILED IN TABLE B.3.2.
- PLANTING SOIL**  
THE SOIL SHALL BE A UNIFORM MIX FREE OF STONES, STUMPS, ROOTS OR OTHER SIMILAR OBJECTS LARGER THAN TWO INCHES. NO OTHER MATERIALS OR SUBSTANCES SHALL BE MIXED OR DUMPED WITHIN THE BIORETENTION AREA. WAYS MAY BE HARDENED TO PLANT GROWTH, OR PROVE A HINDERANCE TO THE PLANTING OR MAINTENANCE OPERATIONS. THE PLANTING SOIL SHALL BE FREE OF BERMUDA GRASS, QUACKGRASS, JOHNSON GRASS, OR OTHER NOXIOUS WEEDS AS SPECIFIED UNDER COMAR 15.08.05.  
THE PLANTING SOIL SHALL BE TESTED AND SHALL MEET THE FOLLOWING CRITERIA:  
PH RANGE 5.2 - 7.0  
ORGANIC MATTER 1.5 - 4% (BY WEIGHT)  
MAGNESIUM 35 LB./AC  
PHOSPHORUS (PHOSPHATE - P205) 65 LB./AC  
POTASSIUM (P2O5 - K2O) 85 LB./AC  
SOLUBLE SALTS NOT TO EXCEED 500 PPM
- COMPACTION**  
IT IS VERY IMPORTANT TO MINIMIZE COMPACTION OF BOTH THE BASE OF THE BIORETENTION AREA AND THE REQUIRED BACKFILL. WHEN POSSIBLE, USE EXCAVATION HOES TO REMOVE ORIGINAL SOIL. BIORETENTION AREAS SHALL BE CONSTRUCTED TO A MINIMUM OF 12 INCHES DEPTH. BIORETENTION AND OPEN CHANNELS B.3.5 AREAS ARE EXCAVATED USING A LOADER, THE CONTRACTOR SHOULD USE WIDE TRACK OR MARSH TRACK EQUIPMENT, OR LIGHT EQUIPMENT WITH TURF TIRE TRUCKS. EQUIPMENT WITH NARROW TRACKS OR NARROW TIRES, RUBBER TREAD TIRES, OR TIRES WITH DEEP TREADS WILL CAUSE EXCESSIVE COMPACTION RESULTING IN REDUCED INFILTRATION CAPACITY AND IS NOT ACCEPTABLE. COMPACTION SIGNIFICANTLY CONTRIBUTE TO DESIGN FAILURE, AND IS NOT ACCEPTABLE. COMPACTION SHALL BE LIMITED TO 10% OF THE DESIGN CAPACITY.  
COMPACTION CAN BE ALLEVATED AT THE BASE OF THE BIORETENTION FACILITY BY USING A PRIMARY OPERATION SUCH AS A CHISEL POINT, RIPPER, OR SUBSOILER. THESE TILING OPERATIONS ARE TO REDUCE THE SOIL PROFILE THROUGH THE 12 INCH COMPACTION ZONE. THESE TILING OPERATIONS SHALL BE LIMITED TO 12 MONTHS AFTER CONSTRUCTION AND NOT DEEP ENOUGH TO REDUCE THE EFFECTS OF COMPACTION FROM HEAVY EQUIPMENT.  
ROTILL 2 TO 3 INCHES OF SAND INTO THE BASE OF THE BIORETENTION FACILITY BEFORE BACKFILLING THE OPTIONAL SAND LAYER. PUMP ANY PONDING WATER BEFORE PREPARING (ROTILLING) BASE.  
WHEN BACKFILLING THE TOPSOIL OVER THE SAND LAYER, FIRST PLACE 3 TO 4 INCHES OF TOPSOIL OVER THE SAND, THEN ROTILL THE SAND/TOPSOIL TO CREATE A GRADATION ZONE. BACKFILL THE REMAINDER OF THE TOPSOIL TO FINAL GRADE.  
WHEN BACKFILLING THE BIORETENTION FACILITY, PLACE SOIL IN LIFTS 12" TO 18". DO NOT USE HEAVY EQUIPMENT WITHIN THE BIORETENTION BASIN. HEAVY EQUIPMENT CAN BE USED ALONG THE PERIMETER OF THE BASIN TO SUPPLY SOILS AND SANDS GRADE BIORETENTION MATERIALS WITH LIGHT EQUIPMENT SUCH AS A COMPACT LOADER OR A DOZER/LOADER WITH MARSH TRACKS.
- PLANT MATERIAL**  
SEE LANDSCAPE PLAN, THIS SDP SET.
- PLANT INSTALLATION**  
MULCH SHOULD BE PLACED TO A UNIFORM THICKNESS OF 2" TO 3". SHREDDED HARDWOOD MULCH IS THE ONLY ACCEPTED MULCH. PINE MULCH AND WOOD CHIPS WILL FLOAT AND MOVE TO THE PERIMETER OF THE BIORETENTION AREA DURING A STORM EVENT AND ARE NOT ACCEPTABLE. SHREDDED MULCH MUST BE WELL AERATED (6 TO 12 MONTHS) FOR ACCEPTANCE.  
ROOT STOCK OF THE PLANT MATERIAL SHALL BE KEPT MOST DURING TRANSPORT AND ON-SITE STORAGE. THE PLANT ROOT BALL SHOULD BE PLANTED 1/8TH OF THE DIAL IS ABOVE FINAL GRADE SURFACE. THE DIAMETER OF THE PLANTING PIT SHALL BE AT LEAST SIX INCHES LARGER THAN THE DIAMETER OF THE PLANTING BALL. SET AND ANCHOR THE PLANT STRAIGHT DURING THE ENTIRE PLANTING PROCESS. THOROUGHLY WATER GROUND BED COVER AFTER INSTALLATION.  
TREES SHALL BE BRACED USING 2" BY 2" STAKES ONLY AS NECESSARY AND FOR THE FIRST GROWING SEASON ONLY. STAKES ARE TO BE EQUALLY SPACED ON THE OUTSIDE OF THE TREE BALL.  
GRASSES AND LEGUME SEED SHOULD BE DRILLED INTO THE SOIL TO A DEPTH OF AT LEAST ONE INCH. GRASS AND LEGUME PLUGS SHALL BE PLANTED FOLLOWING THE NON-GRASS GROUND COVER PLANTING SPECIFICATIONS.

- UNDERDRAINS**  
UNDERDRAINS ARE TO BE PLACED ON A 3"-0" WIDE SECTION OF FILTER CLOTH PIPE IS PLACED NEXT, FOLLOWED BY THE GRAVEL BEDDING. THE ENDS OF UNDERDRAIN PIPES NOT TERMINATING IN AN OBSERVATION WELL SHALL BE CAPPED.  
THE MAIN COLLECTION PIPE FOR UNDERDRAIN SYSTEMS SHALL BE CONSTRUCTED AT A MINIMUM SLOPE OF 0.5% OBSERVATION WELLS AND/OR CLEAN-OUT PIPES MUST BE PROVIDED (ONE MINIMUM PER EVERY 1000 SQUARE FEET OF SURFACE AREA).
- MISCELLANEOUS**  
THE BIORETENTION FACILITY MAY NOT BE CONSTRUCTED UNTIL ALL CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED.

- SIM OPERATION AND MAINTENANCE SCHEDULE FOR**  
LANDSCAPE INFILTRATION (M-3) MICRO-BIORETENTION (M-5), RAIN GARDENS (M-7), BIORETENTION SWALE (M-8), ENHANCED FILTERS (M-9)
- 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 PROWING. 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.

- NOTES:**
- THE LOT SHOWN IS 130,704 S.F. (OR 3,006 ACRES) AND IS RECORDED ON PLAT NO. 21965-66 AMONG THE LAND RECORDED OF HOWARD COUNTY, MARYLAND.
  - EXISTING TOPOGRAPHY IS FROM F-10-95. CALL G.L.W. IF FIELD CONDITIONS ARE SUBSTANTIALLY DIFFERENT.
  - THERE ARE NO 100-YR FLOODPLAIN, WETLAND, WETLAND BUFFER, STREAM OR STREAM BUFFER WITHIN 100-FT OF LOT 2.
  - THIS LOT IS SERVED BY A PRIVATE WELL AND A PRIVATE SEPTIC FILL PER F-10-95.
  - STORMWATER MANAGEMENT IS PROVIDED BY ON-SITE MICRO-BIORETENTION SYSTEM.
  - THE EXISTING WELL SHOWN ON THIS PLAN (IDENTIFIED WITH THE WELL TAG NUMBER MD-95-2283) HAS BEEN FIELD LOCATED BY G.L.W. (PROFESSIONAL LAND SURVEYORS) AND IS ACCURATELY SHOWN ON THIS PLAN.
  - PERIMETER LANDSCAPING ON LOT 2 SHALL BE PROVIDED IN ACCORDANCE WITH F-10-095.
  - NO GRADING, REMOVAL OF VEGETATION, PAVING OR CONSTRUCTION ACTIVITIES OF ANY KIND ARE PERMITTED WITHIN THE FOREST CONSERVATION EASEMENT AREA.

APPROVED: FOR PRIVATE WELL AND SHARED SEPTIC  
HOWARD COUNTY HEALTH DEPARTMENT

COUNTY HEALTH OFFICER \_\_\_\_\_ DATE \_\_\_\_\_

**GLWGUTSCHICK LITTLE & WEBER, P.A.**  
CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS  
3909 NATIONAL DINE - SUITE 250 - BURTONSVILLE OFFICE PARK  
BURTONSVILLE, MARYLAND 20866  
TEL: 301-421-4024 BALT: 410-880-1820 DC/WA: 301-889-2524 FAX: 301-421-4186

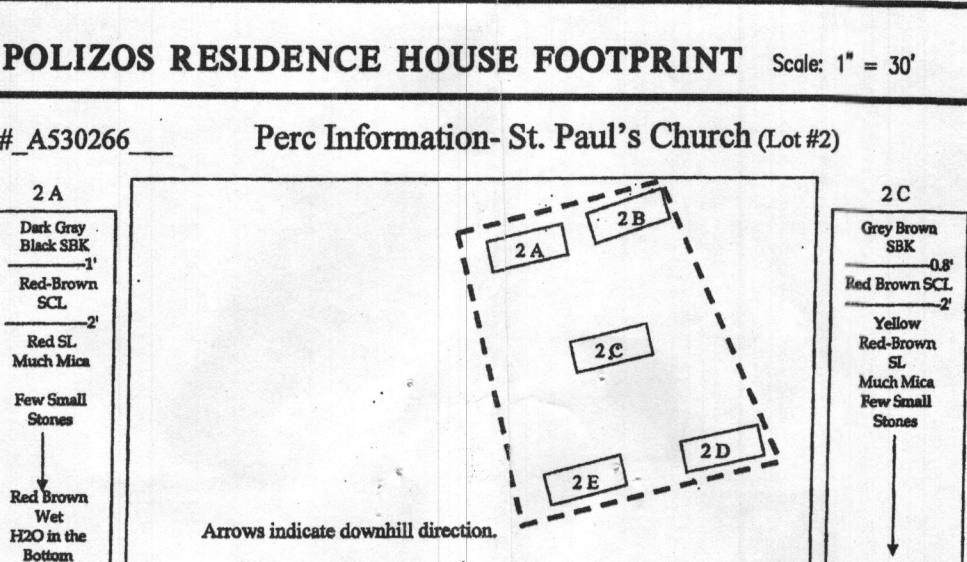
L:\CAD\DRAWINGS\0803A\LOT PLANS\3006 (LOT-2)\PP LOT-2.mxd DES. mbl DRN. klp CHK. CKG

**APPENDIX B.1.1 - SUPPLEMENTAL POND SPECIFICATIONS (NON-378)**

- SUPPLEMENTAL STORMWATER PONDS AND WETLAND SPECIFICATIONS (NON-378)  
THESE NOTES AND SPECIFICATIONS ARE IN ADDITION TO THE MD-378 SPECIFICATIONS. IF THERE IS ANY QUESTION AS TO THE APPLICABILITY, THE MD-378 SPECIFICATIONS SUPERCEDE.
- IT IS PREFERRED TO USE THE SAME MATERIAL IN THE EMBANKMENT AS IS BEING INSTALLED FOR THE CORE TRENCH. IF THIS IS NOT POSSIBLE BECAUSE THE APPROPRIATE MATERIAL IS NOT AVAILABLE, A DAM CORE WITH A SHALL MAY BE USED. THE CROSS-SECTION OF THE STORMWATER FACILITY SHOULD SHOW THE LIMITS OF THE DAM CORE (UP TO 10-YEAR WATER SURFACE ELEVATION) AS WELL AS THE ACCEPTABLE MATERIALS FOR THE SHELL. THE SHAPE OF THE DAM CORE AND THE MATERIAL TO BE USED IN THE SHELL SHOULD BE PROVIDED BY THE GEOTECHNICAL ENGINEER.
  - IF THE COMPACTION TESTS FOR THE SITE IMPROVEMENTS IS USING MODIFIED PROCTOR (ASTM D-1557), THEN TO MAINTAIN ON-SITE CONSISTENCY, THE MODIFIED PROCTOR MAY BE USED IN LIEU OF A STANDARD PROCTOR (ASTM D-1557). THE MINIMUM DENSITY USING THE MODIFIED PROCTOR TEST METHOD SHALL BE AT LEAST 92% OF THE MAXIMUM DRY DENSITY WITH A MOISTURE CONTENT OF 4.0% OF THE OPTIMUM. THE MINIMUM REQUIRED DENSITY USING THE STANDARD PROCTOR TEST METHOD SHALL BE AT LEAST 95% OF THE MAXIMUM DRY DENSITY WITH A MOISTURE CONTENT OF 12% OF THE OPTIMUM.
  - FOR ALL STORMWATER MANAGEMENT FACILITIES, A GEOTECHNICAL ENGINEER OR THEIR REPRESENTATIVE MUST BE PRESENT TO VERIFY COMPACTION IN ACCORDANCE WITH THE SELECTED TEST METHOD. THIS INFORMATION NEEDS TO BE PROVIDED IN A REPORT TO THE DESIGN ENGINEER, SO THAT CERTIFICATION OF THE CONSTRUCTION OF THE FACILITY, IN ACCORDANCE WITH MD-378 SPECIFICATIONS, CAN BE MADE.
  - A 4-INCH LAYER OF TOPSOIL SHALL BE PLACED ON ALL DISTURBED AREAS OF THE DAM EMBANKMENT. SEEDING, LIMING, FERTILIZING, MULCHING, ETC. SHALL BE IN ACCORDANCE WITH MARYLAND SOIL CONSERVATION SERVICE MD-342 OR THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL AND PERMANENT SEEDING, SECTION IN CHAPTER 20. THE PURPOSE OF THE TOPSOIL IS TO ESTABLISH A GOOD GROWTH OF GRASS, WHICH IS NOT ALWAYS POSSIBLE WITH SOME OF THE MATERIALS THAT MAY BE PLACED FOR THE EMBANKMENT FILL.
  - GEOTEXTILE PLACED BENEATH RIP-RAP SHALL BE CLASS "C" GEOTEXTILE OR BETTER (SEE SECTION 24.0, MATERIAL SPECIFICATIONS, 1994 STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL (MCE, 1994). SOME ACCEPTABLE GEOTEXTILES THAT MEET THE CLASS "C" CRITERIA INCLUDE:  
AMOCO 4552 CARTHAGE FX-70S  
GEOLON N70 MIRAFI 180-N  
WESTEC NOT
- THIS IS ONLY A PARTIAL LISTING OF AVAILABLE GEOTEXTILES BASED ON INFORMATION PROVIDED BY THE MANUFACTURERS OF THE 1997 SPECIFIER'S GUIDE DATED DECEMBER 1996. IT IS THE RESPONSIBILITY OF THE ENGINEER TO VERIFY THE ADEQUACY OF THE MATERIAL, AS THERE ARE CHANGES IN THE MANUFACTURING PROCESS AND THE TYPE OF FABRIC USED, WHICH MAY AFFECT THE CONTINUED ACCEPTANCE.
- A RULE OF THUMB TO DETERMINE WHEN AN EXCAVATED POND MAY NEED TO BE CONSIDERED AN EMBANKMENT POND IS AS FOLLOWS:  
PROVIDE CALCULATION OF 10H + 20 FEET = L, WHERE H HEIGHT FROM POND BOTTOM TO TOP OF DAM. IF THE PROJECTION OF L, DOWNSTREAM IS A HORIZONTAL LINE FROM THE UPSTREAM TOE OF SLOPE IS BELOW EXISTING GROUND, THE POND CAN BE CONSIDERED AN EXCAVATED POND. IN ADDITION, THE EXISTING GROUND SLOPE, DOWNSTREAM OF THE TOE, MUST BE LESS THAN 10%.
  - THE DESIGN ENGINEER AND GEOTECHNICAL ENGINEER SHOULD MAKE THE DETERMINATION THAT THE SETTLEMENT OF THE POND WILL NOT CAUSE EXCESSIVE JOINT EXTENSION. FOR FURTHER INFORMATION ON JOINT ANALYSIS, SEE NCE PUBLICATION TR-16.
  - FILL PLACEMENT SHALL NOT EXCEED A MAXIMUM 8-INCH. EACH LIFT SHALL BE CONTINUOUS FOR THE ENTIRE LENGTH OF THE EMBANKMENT.
  - THE EMBANKMENT FILL SHALL NOT BE PLACED HIGHER THAN THE CENTERLINE OF THE PRINCIPAL SPILLWAY UNTIL AFTER THE PRINCIPAL SPILLWAY HAS BEEN INSTALLED. IF THE EMBANKMENT NEEDS TO BE EXCAVATED TO INSTALL THE PRINCIPAL SPILLWAY, THE SIDE SLOPE SHALL BE NO LESS THAN 2:1.
  - THE SIDE SLOPES OF A CUT TO REPAIR A DAM, INSTALL A PRINCIPAL SPILLWAY FOR AN EXCAVATED POND, OR OTHER REPAIR WORK, SHALL BE NO LESS THAN 2:1.

**LOT CONSTRUCTION DATA:**

TOTAL AREA OF SITE	3,006± ACRES
AREA DISTURBED	0,688± ACRES (29,755 S.F.)
AREA TO BE ROOFED OR PAVED	0,192± ACRES (8,927 S.F.)
AREA TO BE VEGETATIVELY STABILIZED	0,498± ACRES (20,828 S.F.)
APPROX. TOTAL CUT	770± CU. YDS.
APPROX. TOTAL FILL	770± CU. YDS.



**POLIZOS RESIDENCE HOUSE FOOTPRINT** Scale: 1" = 30'

P#\_A530266 Perc Information- St. Paul's Church (Lot #2)

Date	Test #	Depth	Start	Break 1 <sup>st</sup> Drop	Break 2 <sup>nd</sup> Drop	Time of Fall	PERF	DA
05-13-09	2A	5'14"	10:47	11:01	11:16	15 min.	Pass	DA 5
05-13-09	2B	4'5"14"	10:14	10:16	10:21	5 min.	Pass	DA 2
05-13-09	2C	4'5"13"	9:58	10:02	10:13	11 min.	Pass	DA 3
05-13-09	2D	4'5"14"	10:26	10:42	Not to 1 <sup>st</sup> peg	22 min.	Fail	DA 4
05-13-09	2D	6'7"14"	12:02	12:17	12:29	14 min.	Pass	DA 1
05-13-09	2E	4'5"14"	11:25	11:40	11:55	15 min.	Pass	DA 4

Remark: Inlet Dept for 2D is 6 Feet.

Sanitarians\_DB Backhoe-Jason Others \_\_\_\_\_

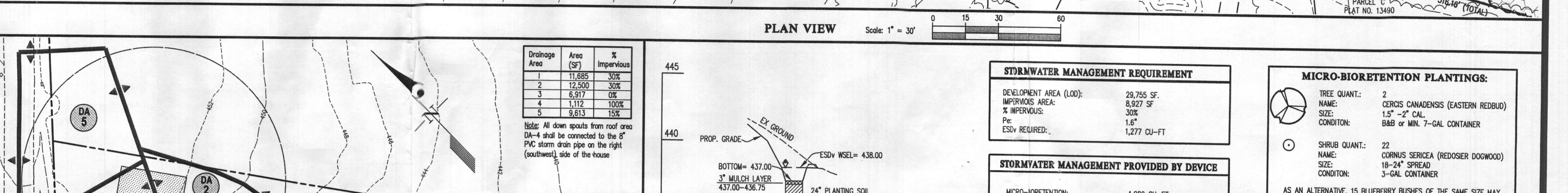
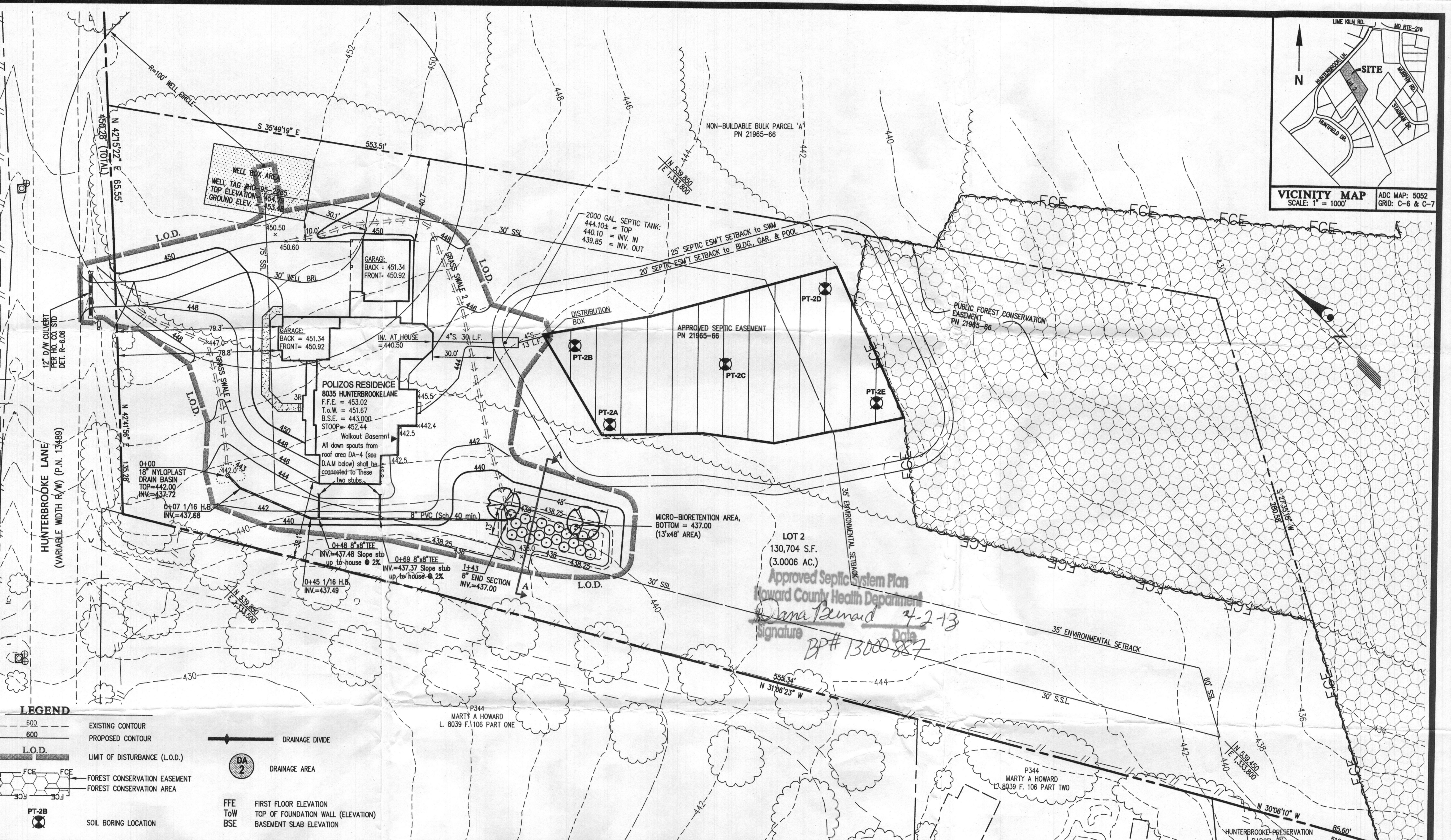
Test Holes Used in \_\_\_SDA\_\_\_ Avg. Perc Time \_\_\_10\_\_\_ SQ.FT./BR. \_\_\_5\_\_\_ Bedrooms

Trench Width \_\_\_2\_\_\_ Inlet Depth \_\_\_4.5\_\_\_ Max Bot.Depth \_\_\_8\_\_\_ Effective S/W \_\_\_

**DRAINAGE AREA MAP** Scale: 1" = 50'

Drainage Area	Area (SF)	% Impervious
1	11,885	30%
2	12,500	30%
3	6,917	0%
4	1,112	100%
5	9,613	15%

Note: All down spouts from roof area DA-4 shall be connected to the 8" PVC storm drain pipe on the right (southeast) side of the house.



**STORMWATER MANAGEMENT REQUIREMENT**

DEVELOPMENT AREA (LOD):	29,755 SF.
IMPROVED AREA:	8,927 SF.
% IMPERVIOUS:	30%
PER:	1.6"
ESV REQUIRED:	1,277 CU-FIT

**STORMWATER MANAGEMENT PROVIDED BY DEVICE**

MICRO-BIORETENTION:	1,089 CU-FIT
GRASS WALES:	189 CU-FIT
TOTAL:	1,278 CU-FIT

**MICRO-BIORETENTION PLANTINGS:**

TREE QUANT: 2  
NAME: CERIS CANADENSIS (EASTERN REDBUD)  
SIZE: 1.5" -2" CAL.  
CONDITION: B&B or MIN. 7-GAL. CONTAINER

SHRUB QUANT: 22  
NAME: CUNILA SERICEA (REDOSIER DOGWOOD)  
SIZE: 18"-24" SPREAD  
CONDITION: 3-GAL. CONTAINER

AS AN ALTERNATIVE, 15 BLUEBERRY BUSHES OF THE SAME SIZE MAY BE PLANTED IF A TEST INDICATES A PH OF 5.2 OR LESS. AT LEAST 2 DIFFERENT VARIETIES (SUCH AS "BLUECROP", "BLUEBAY" OR "PATRIOT") WOULD BE NEEDED FOR PROPER POLLINATION.

**House Siting Plot Plan**

**ST. PAUL'S LUTHERAN CHURCH PROPERTY**  
LOT 2 (8035 Hunterbrooke Lane)  
PLAT No. 21965-21966

OWNER: KALOPI and JOHN POLIZOS  
P.O. BOX 4727  
SILVER SPRING, MD 20914  
PHONE: (301) 404-1127

PROFESSIONAL CERTIFICATION  
I HEREBY CERTIFY THAT THESE PLANS 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. 129275  
EXPIRATION DATE: MAY 26, 2017  
3/12/13

SCALE: AS SHOWN  
ZONING: RR-DEO  
DATE: MARCH 2013  
TAX MAP - GRID: 46 - 2  
SHEET: 1 OF 1

CLARKSVILLE ELECTION DISTRICT No. 5  
HOWARD COUNTY, MARYLAND