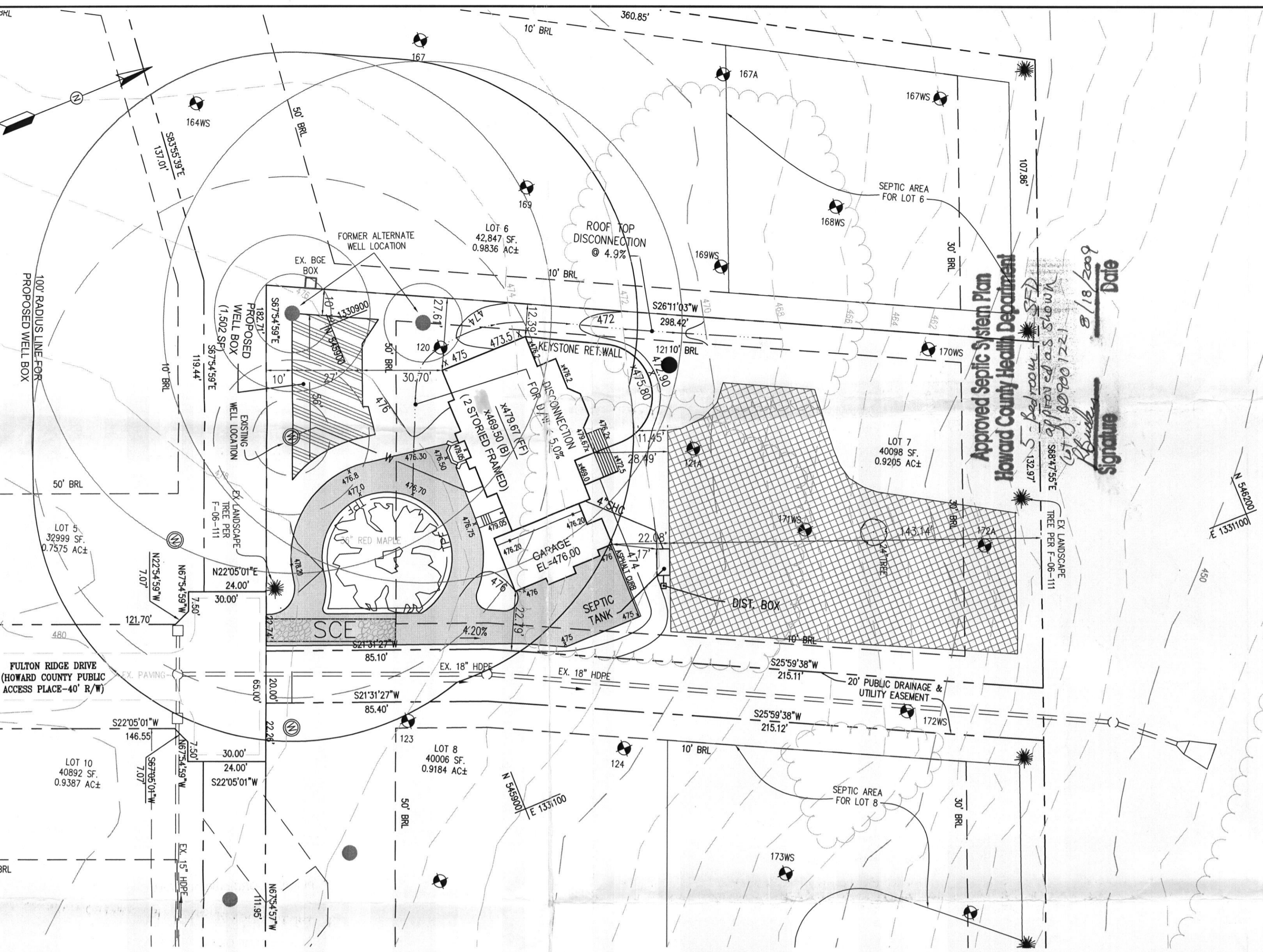


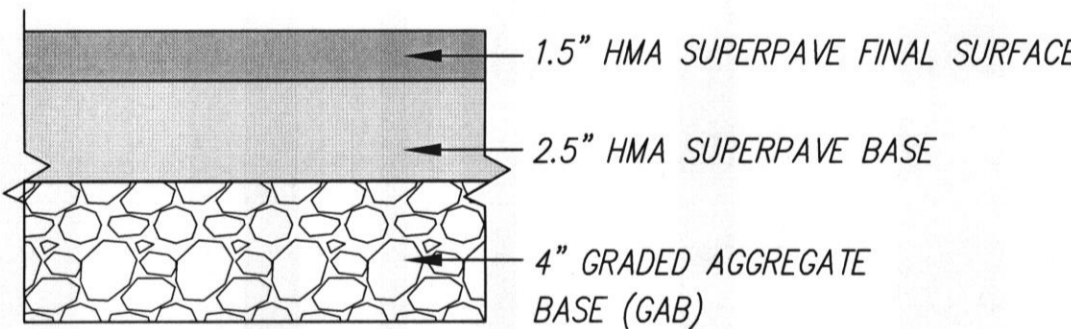
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DEPT. OF INSPECTIONS, LICENSES AND PERMITS 3430 COURT HOUSE DRIVE ELLICOTT CITY, MD 21043 PERMITS (410) 313-2455 INSPECTIONS (410) 313-1810 AUTOMATED INFORMATION (410) 313-3800		HOWARD COUNTY PERMIT APPLICATION		B09001221 PERMIT NUMBER																																																																									
Building Address <u>12135 FULTON RIDGE DR.</u> <u>FULTON, MD 20759</u>			Property Owner's Name <u>AMRISH PATEL</u> Address <u>4400 HURLEY CT.</u> City <u>BELTSVILLE</u> State <u>MD</u> Zip Code <u>20705</u> Phone <u>301-595-3639</u> Phone <u>(301) 306-3091</u> Applicant's Name & Mailing Address, (if other than stated herein):																																																																										
Suite/Apt. #: <u>N/A</u> SDP/WP/Petition #: <u>18906</u>			City <u>BELTSVILLE</u> State <u>MD</u> Zip Code <u>20705</u> Phone <u>301-595-3639</u> Phone <u>(301) 306-3091</u> Applicant's Name & Mailing Address, (if other than stated herein):																																																																										
Census Tract <u>N/A</u> Subdivision <u>FULTON RIDGE</u>			Phone _____ Fax _____																																																																										
Section <u>N/A</u> Area <u>0.92 AC</u> Lot <u>7</u>			Contractor Company <u>Review Builders</u> <u>5700 Schu</u> Contact Person <u>Rayd Granger</u> <u>HILDA</u> Address <u>P.O. Box 3040</u> <u>St. 197</u> City <u>La Plata</u> State <u>MD</u> Zip Code <u>20646</u> <u>(301) 613-</u> License No. <u>4246</u> <u>3385</u> Phone <u>893-0495</u> Fax <u>893-0694</u> <u>#91723</u> <u>(301) 306-3091</u> <u>(301) 306-3092</u>																																																																										
Tax Map <u>41</u> Parcel <u>3</u> Grid <u>13</u>			Engineer or Architect Company <u>AB CONSULTANTS, INC.</u>																																																																										
Zoning <u>RR-DEO</u> Map Coordinates _____ Lot Size <u>0.92 AC</u>			Contact Person <u>AMRISH PATEL</u>																																																																										
Existing Use <u>VACANT</u>			Address <u>9450 ANNAPOLIS RD.</u>																																																																										
Proposed Use <u>RESIDENTIAL</u>			City <u>LANHAM</u> State <u>MD</u> Zip Code <u>20706</u>																																																																										
Estimated Construction Cost \$ <u>475,000/-</u>			Phone _____ Fax _____																																																																										
Description of Work <u>SINGLE FAMILY DWELLING, FRAMED</u>			City <u>LANHAM</u> State <u>MD</u> Zip Code <u>20706</u>																																																																										
Occupant or Tenant <u>AMRISH PATEL</u>			Phone <u>301-595-3639</u> Fax _____																																																																										
Contact Name <u>AMRISH PATEL</u>			Phone <u>(301) 306-3091</u> Fax <u>(301) 306-3092</u>																																																																										
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City <u>BELTSVILLE</u> State <u>MD</u> Zip Code <u>20705</u>			Building Description - <u>RESIDENTIAL</u>																																																																										
Building Characteristics Height: _____ No. of stories: _____ Gross area, sq. ft. per floor: _____ Use group: _____ Construction type: <input type="checkbox"/> Reinforced Concrete <input type="checkbox"/> Structural Steel <input type="checkbox"/> Masonry <input type="checkbox"/> Wood Frame <input type="checkbox"/> State Certified Modular			Building Characteristics SF Dwelling <input checked="" type="checkbox"/> SF Townhouse <input type="checkbox"/> Depth _____ Width _____ 1 st floor: <u>34 x 68</u> 2 nd floor: <u>34 x 68</u> Basement: <u>34 x 68</u> Finished Basement <input type="checkbox"/> Unfinished Basement <input checked="" type="checkbox"/> Crawl space <input type="checkbox"/> Slab on Grade <input type="checkbox"/> No. of Bedrooms <u>5</u> Multi-family dwellings: No. of efficiency units: _____ No. of 1 BR units: _____ No. of 2 BR units: _____ No. of 3 BR units: _____ Other Structure: _____ Dimensions: _____ Footings: <u>20" x 10"</u> Roof Height: <u>12'</u> <input type="checkbox"/> State Certified Modular <input type="checkbox"/> Manufactured Home																																																																										
Utilities Water Supply: _____ <input type="checkbox"/> Public <input type="checkbox"/> Private Sewage Disposal: _____ <input type="checkbox"/> Public <input type="checkbox"/> Private Electric Yes <input type="checkbox"/> No <input type="checkbox"/> Gas Yes <input type="checkbox"/> No <input type="checkbox"/> Heating System: Electric <input type="checkbox"/> Oil <input type="checkbox"/> Natural Gas <input type="checkbox"/> Propane Gas <input type="checkbox"/> Sprinkler system: <u>N/A</u> <input type="checkbox"/> <input type="checkbox"/> Full <input type="checkbox"/> Partial <input type="checkbox"/> Other Suppression <input type="checkbox"/> # of Heads			Utilities Water Supply: _____ <input type="checkbox"/> Public <input checked="" type="checkbox"/> Private Sewage Disposal: _____ <input type="checkbox"/> Public <input checked="" type="checkbox"/> Private Electric Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Gas Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Heating System: Electric <input type="checkbox"/> Oil <input type="checkbox"/> Natural Gas <input checked="" type="checkbox"/> Propane Gas <input type="checkbox"/> Sprinkler system: <u>N/A</u> <input checked="" type="checkbox"/> <input type="checkbox"/> NFPA #13D <input type="checkbox"/> NFPA #13R <input type="checkbox"/> Other:																																																																										
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.																																																																													
<u>Amr</u> Applicant's Signature <u>AMCSS</u> Title/Company			<u>AMRISH PATEL</u> Print Name <u>5/21/09 6/1/09</u> Date																																																																										
Checks payable to: DIRECTOR OF FINANCE OF HOWARD COUNTY **PLEASE WRITE NEATLY AND LEGIBLY.** - FOR OFFICE USE ONLY -																																																																													
<table border="1"> <thead> <tr> <th>AGENCY</th> <th>DATE</th> <th>SIGNATURE</th> <th>APPROVAL</th> <th>DPZ SETBACK INFORMATION</th> <th>PROPERTY ID #</th> </tr> </thead> <tbody> <tr> <td>Land Development, DPZ</td> <td></td> <td></td> <td></td> <td>Front: _____</td> <td>Filing fee \$ <u>100.00</u></td> </tr> <tr> <td>State Highways</td> <td></td> <td></td> <td></td> <td>Rear: _____</td> <td>Permit fee \$ _____</td> </tr> <tr> <td>Building Officials</td> <td></td> <td></td> <td></td> <td>Side: _____</td> <td>Excise tax \$ _____</td> </tr> <tr> <td>Dev. Engineering, DPZ</td> <td></td> <td></td> <td></td> <td>Side St: _____</td> <td>Add'l per fee \$ <u>50.00</u></td> </tr> <tr> <td>Health</td> <td><u>5/16/2009</u></td> <td><u>Amr</u></td> <td></td> <td>All minimum setbacks met?</td> <td>TOTAL FEES \$ _____</td> </tr> <tr> <td>Fire Protection</td> <td></td> <td></td> <td></td> <td>YES <input type="checkbox"/> NO <input type="checkbox"/></td> <td>Sub-total paid \$ _____</td> </tr> <tr> <td>Is Sediment Control approval required prior to issuance?</td> <td></td> <td></td> <td></td> <td>YES <input type="checkbox"/> NO <input type="checkbox"/></td> <td>Balance due \$ _____</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>Historic District?</td> <td>Check # <u>134</u></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>YES <input type="checkbox"/> NO <input type="checkbox"/></td> <td>Validation # _____</td> </tr> <tr> <td>CONTINGENCY CONSTRUCTION START <input type="checkbox"/></td> <td></td> <td></td> <td></td> <td>Lot Coverage for New Town Zone</td> <td>Accepted by _____</td> </tr> <tr> <td>ONE STOP SHOP <input type="checkbox"/></td> <td></td> <td></td> <td></td> <td>SDP/Red-line approval date</td> <td></td> </tr> </tbody> </table>						AGENCY	DATE	SIGNATURE	APPROVAL	DPZ SETBACK INFORMATION	PROPERTY ID #	Land Development, DPZ				Front: _____	Filing fee \$ <u>100.00</u>	State Highways				Rear: _____	Permit fee \$ _____	Building Officials				Side: _____	Excise tax \$ _____	Dev. Engineering, DPZ				Side St: _____	Add'l per fee \$ <u>50.00</u>	Health	<u>5/16/2009</u>	<u>Amr</u>		All minimum setbacks met?	TOTAL FEES \$ _____	Fire Protection				YES <input type="checkbox"/> NO <input type="checkbox"/>	Sub-total paid \$ _____	Is Sediment Control approval required prior to issuance?				YES <input type="checkbox"/> NO <input type="checkbox"/>	Balance due \$ _____					Historic District?	Check # <u>134</u>					YES <input type="checkbox"/> NO <input type="checkbox"/>	Validation # _____	CONTINGENCY CONSTRUCTION START <input type="checkbox"/>				Lot Coverage for New Town Zone	Accepted by _____	ONE STOP SHOP <input type="checkbox"/>				SDP/Red-line approval date	
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Distribution of Copies - White: Building Officials Green: LDD, DPZ Yellow: DED, DPZ Pink: Health Gold: SHA T: forms/buildingpermitapplication REV 10/28/04																																																																													

#173468



SITE PLAN
SCALE: 1"=30'

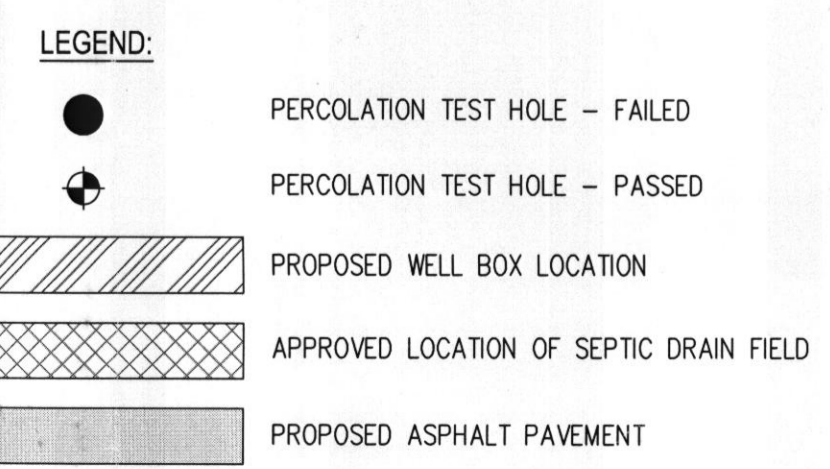


HOWARD COUNTY PAVING SECTION - P1
(HO. CO. DETAIL R-2.01)
NOT TO SCALE

SEPTIC TANK

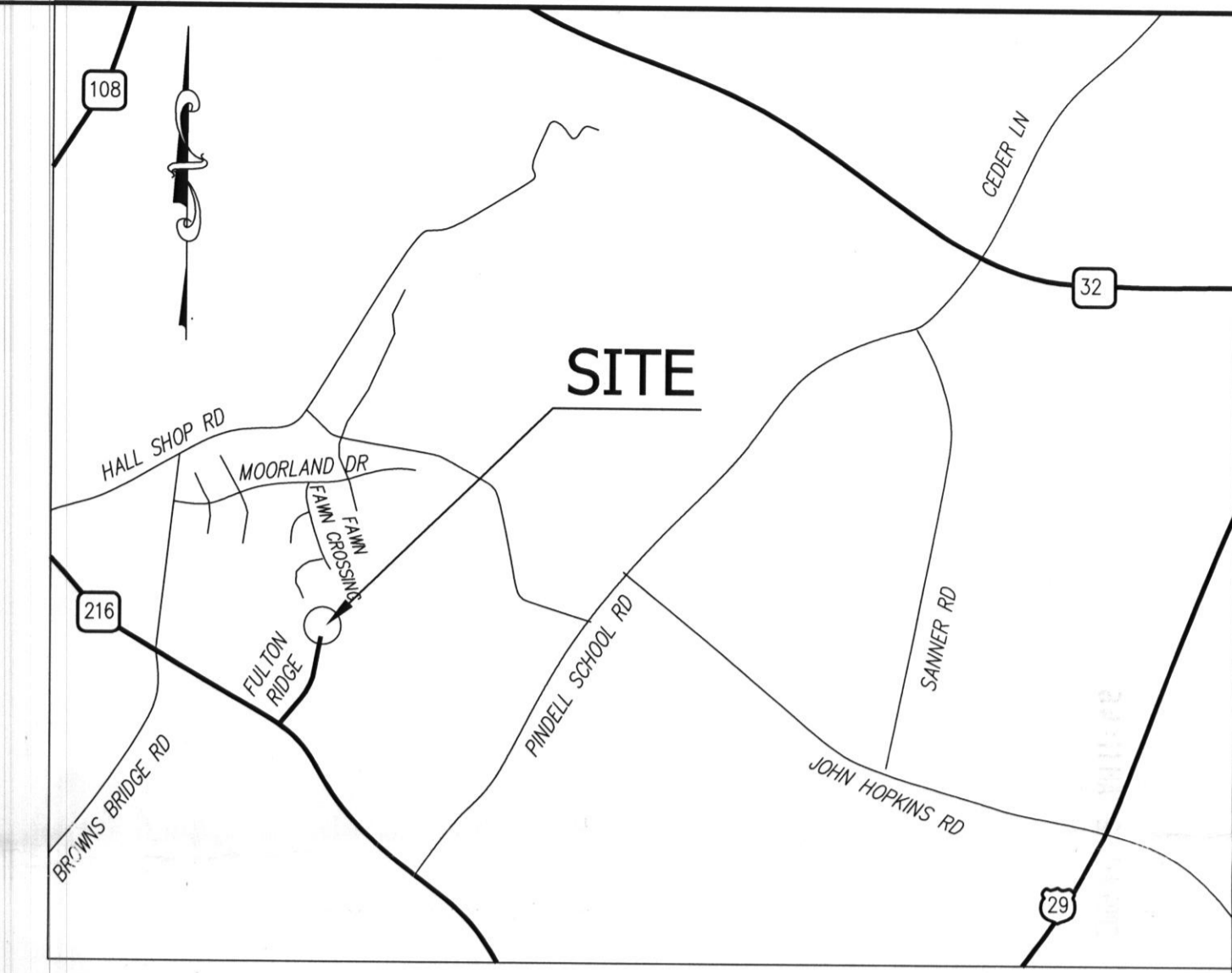
INV. OUT OF HOUSE	467.75
INV. INTO SEPTIC TANK	467.35
INV. OUT SEPTIC TANK	467.15
GROUND OVER SEPTIC TANK	472.00
INV. INTO DIST. BOX	467.10
INV. OUT OF DIST. BOX	467.00
GROUND OVER DIST. BOX	472.00

NOTE: TRAFFIC BEARING LID WILL BE REQUIRED FOR 2,000 GALLONS SEPTIC TANK.



APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT

Signature for Peter Beilenson 8/17/2009
DATE



VICINITY MAP
SCALE: NTS
ADC MAP 18, GRIDE E-2

GENERAL NOTES:

- EXACT LENGTH OF SEPTIC TRENCHES ARE BE DETERMINED BY THE HEALTH DEPARTMENT AT THE TIME OF TRENCH LAYOUT AND INSPECTION.
- SPOIL FROM THE TRENCHING OF THE SEPTIC AREA IS TO BE PLACED ON THE UPHILL SIDE OF THE EXCAVATION FOR EACH INDIVIDUAL LOT.
- ALL SEDIMENT AND EROSION CONTROL FEATURES USED ON THIS SITE SHALL COMPLY WITH 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
- ALL DRAINAGE AND STORMWATER MANAGEMENT FEATURES USED ON THIS SITE MUST COMPLY WITH THE APPROVED ROAD CONSTRUCTION PLANS F-06-111.
- SEPTIC TANK FOR THIS LOT IS 2,000 GALLONS.
- THE EXISTING WELL SHOWN ON THIS PLAN, HO-95-0541, HAS BEEN FIELD LOCATED BY AB CONSULTANTS, INC. AND IS ACCURATELY SHOWN.

REVISED PERCOLATION CERTIFICATION NOTE:

- THIS AREA DESIGNATES A PRIVATE SEWAGE AREA OF AT LEAST 10,000 SQUARE FEET AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWERAGE IS AVAILABLE. THESE AREAS SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWERAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWAGE AREA. RECORDATION OF A MODIFIED SEWAGE AREA SHALL NOT BE NECESSARY.
- TOPOGRAPHY SHOWN IS AT TWO-FOOT CONTOUR INTERVALS AND HAS BEEN FIELD VERIFIED OR FIELD RUN.
- ANY CHANGES TO A PRIVATE SEWAGE AREA SHALL REQUIRE A REVISED PERC CERTIFICATION PLAN.
- EXISTING WELLS, SEPTIC SYSTEMS, AND SEWAGE DISPOSAL AREAS WITHIN 100' OF THE PROPERTY AND THOSE WITHIN 200' DOWNGRADIENT OF EXISTING OR PROPOSED SEPTIC SYSTEMS OR SEWAGE DISPOSAL AREAS HAVE BEEN SHOWN.
- THIS PLAN IS FOR RECONFIGURATION OF WELL BOX.
- NO SEPTIC SYSTEM TANK, TRENCH OR EASEMENT, INFILTRATIVE STORMWATER CONTROL, OR UNDERGROUND LP TANK MAY BE WITHIN 100 FEET OF THE WELLBOX.
- THE LOT SHOWN HERON WAS RECORDED ON THE PLAT #18906. REFER TO PLAT FOR LOT DIMENSIONS, LOT AREAS, ALL EASEMENTS, ANY RESTRICTIONS, AND PROVISIONS.

THE BOUNDARY SURVEY WAS PERFORMED BY LDE, INC. DATED SEPTEMBER, 2003 IN NAD 83 MARYLAND STATE PLANE COORDINATE SYSTEM. THE TOPOGRAPHY SHOWN IS TAKEN FROM HOWARD COUNTY AERIAL TOPOGRAPHY AND THE AREA WITHIN THE SEWAGE DISPOSAL AREA HAS BEEN FIELD VERIFIED. LOCATION OF WELLS AND PERC TEST HOLES HAVE BEEN FIELD SURVEYED BY LDE, INC. DATED JANUARY 2004.

SIGN AND SEAL

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.: 19372
EXPIRATION DATE: 9/14/09



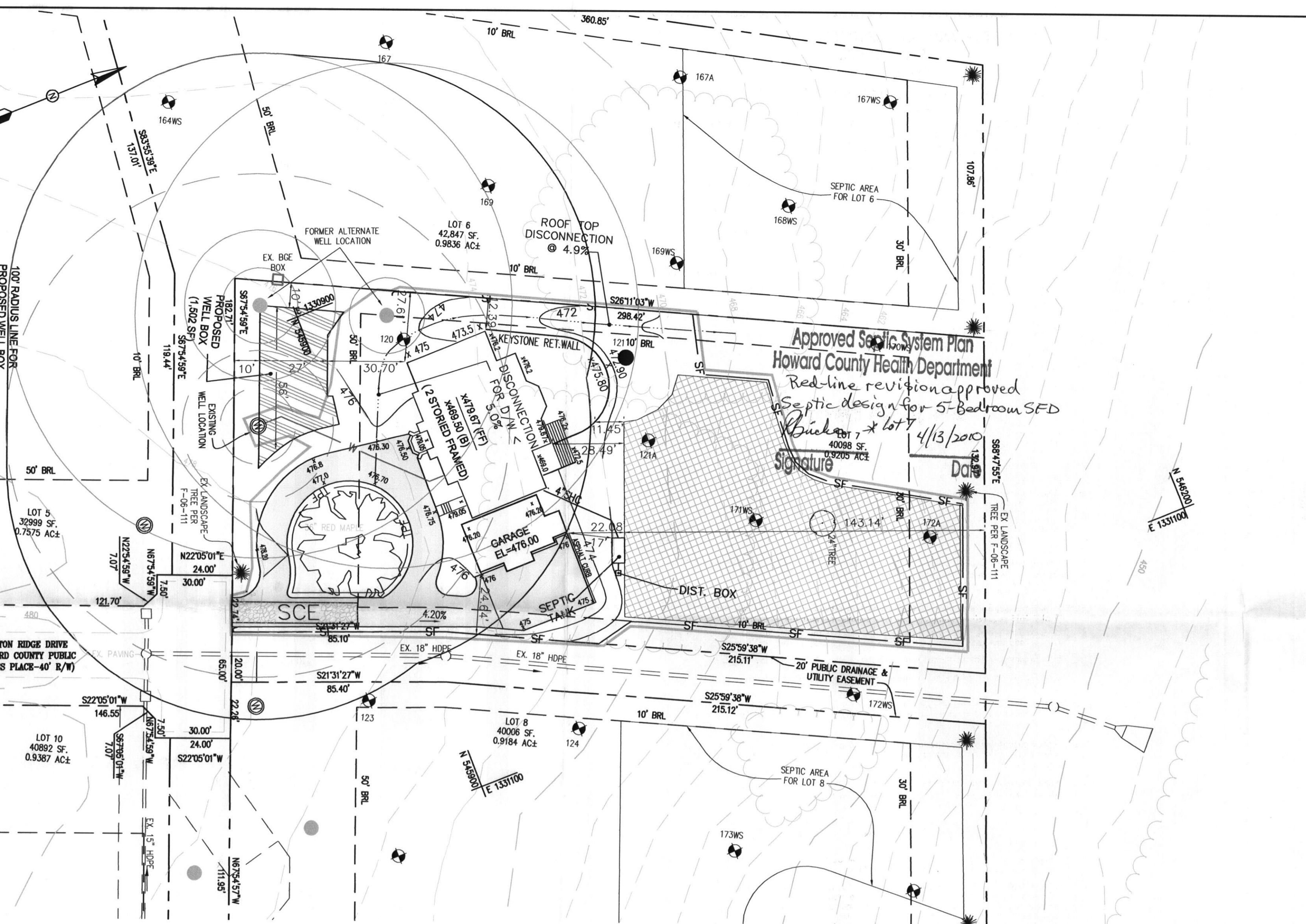
REVISED PERCOLATION CERTIFICATION PLAN

July 20, 2009

PATEL RESIDENCE
Lot #7, 12135 Fulton Ridge Dr., Fulton, MD 20759
PLAT # 18905-18907

AB CONSULTANTS, INC.
9450 LANHAM, MD 20706
301-506-3891

PROJ. NO. R05.09 OF: .
SHEET NO. C-01



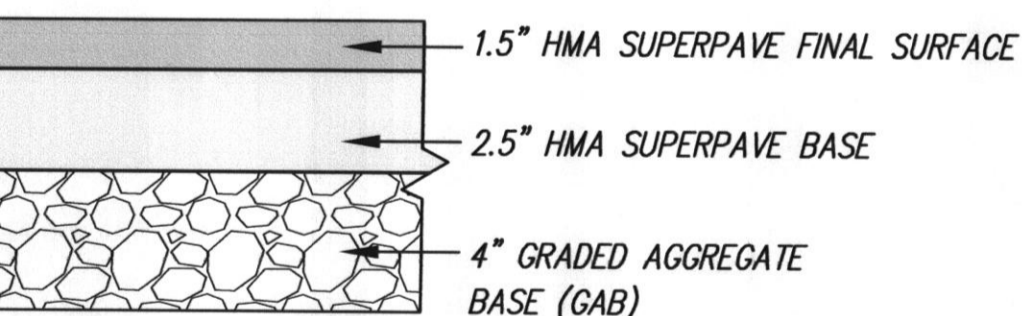
SITE PLAN
SCALE: 1"=30'

SEPTIC TANK

INV. OUT OF HOUSE	-467-75	470.25
INV. INTO SEPTIC TANK	-467-35	469.00
INV. OUT SEPTIC TANK	-467-15	468.60
GROUND OVER SEPTIC TANK	-472-00	472.28 (EXISTING - FIELD VERIFIED)
INV. INTO DIST. BOX	-467-10	468.80
INV. OUT OF DIST. BOX	-467-00	468.50
GROUND OVER DIST. BOX	-472-00	472.28 (EXISTING - FIELD VERIFIED)

NOTE: TRAFFIC BEARING LID WILL BE REQUIRED FOR 2,000 GALLONS SEPTIC TANK.

* NOTE: BASEMENT WILL NOT DRAIN BY GRAVITY



HOWARD COUNTY PAVING SECTION - P1
(HO. CO. DETAIL R-2.01)
NOT TO SCALE

DEVELOPER'S CERTIFICATE

I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THE PLAN AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION OF THIS PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A COURSE OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF EROSION AND SEDIMENTATION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE THE SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT.

DATE _____

ENGINEER'S CERTIFICATE

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

DATE _____

DATE _____

LEGEND:

- TPF — TREE PROTECTION FENCE
- SF — SILT FENCE
- LOD — LIMIT OF DISTURBANCE
- PERCOLATION TEST HOLE - FAILED
- PERCOLATION TEST HOLE - PASSED
- ▨ SCE — STABILIZED CONSTRUCTION ENTRANCE
- ▨ — APPROVED LOCATION OF SEPTIC DRAIN FIELD

SEQUENCE OF CONSTRUCTION

1. OBTAIN GRADING PERMIT. 7 DAYS.
2. INSTALL SEDIMENT AND EROSION CONTROL DEVICES AND STABILIZE. 2 DAYS.
3. EXCAVATE FOR FOUNDATION, ROUGH GRADE & TEMPORARY STABILIZE. 30 DAYS.
4. CONSTRUCT BUILDING AND DRIVEWAY. 120 DAYS.
5. FINAL GRADE AND STABILIZE IN ACCORDANCE WITH STANDARDS AND SPECIFICATIONS. 5 DAYS.
6. UPON APPROVAL OF THE SEDIMENT CONTROL INSPECTOR, REMOVE SEDIMENT AND EROSION CONTROL DEVICES AND STABILIZE. 2 DAYS.

GENERAL NOTES:

1. THE LOT SHOWN HEREON WAS RECORDED ON THE PLAY FOR FULTON RIDGE, PLAT NO. 18906. REFER TO THE PLAT FOR LOT DIMENSIONS, LOT AREAS AND ALL EASEMENTS.
2. THIS AREA DESIGNATES A PRIVATE SEWERAGE EASEMENT OF AT LEAST 10,000 SQ. FT. AS REQUIRED BY THE STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWERAGE DISPOSAL IMPROVEMENTS OF ANY NATURE IN THIS AREA IS RESTRICTED UNTIL PUBLIC SEWER IS AVAILABLE. THIS EASEMENT SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWERAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWERAGE EASEMENT. ANY CHANGES TO A PRIVATE SEWERAGE EASEMENT SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN. RECORDATION OF A MODIFIED EASEMENT PLAT SHALL NOT BE NECESSARY.
3. SEDIMENT AND EROSION CONTROLS WILL BE APPROVED BY HOWARD SOIL CONSERVATION DISTRICT AND SHALL BE MODIFIED FOR THIS SPECIFIC HOUSE.
4. TOPOGRAPHY SHOWN WAS FIELD RUN BY LDE, INC. DATED 2006.
5. EXACT LENGTH OF SEPTIC TRENCHES ARE BE DETERMINED BY THE HEALTH DEPARTMENT AT THE TIME OF TRENCH LAYOUT AND INSPECTION.
6. SPOIL FROM THE TRENCHING OF THE SEPTIC AREA IS TO BE PLACED ON THE UPHILL SIDE OF THE EXCAVATION FOR EACH INDIVIDUAL LOT.
7. ALL SEDIMENT AND EROSION CONTROL FEATURES USED ON THIS SITE SHALL COMPLY WITH 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
8. ALL DRAINAGE AND STORMWATER MANAGEMENT FEATURES USED ON THIS SITE MUST COMPLY WITH THE APPROVED ROAD CONSTRUCTION PLANS F-06-111.
9. SEPTIC TANK FOR THIS LOT IS 2,000 GALLONS.

THE EXISTING WELL SHOWN ON THIS PLAN, HO-95-0541, HAS BEEN FIELD LOCATED BY AB CONSULTANTS, INC. AND IS ACCURATELY SHOWN.

21.0 STANDARD AND SPECIFICATIONS

FOR TOPSOIL

Definition

Placement of topsoil over a prepared subsoil prior to establishment of permanent vegetation.

Purpose

To provide a suitable soil medium for vegetative growth. Soils of concern have low moisture content, low nutrient levels, low pH, materials toxic to plants, and/or unacceptable soil gradation.

Conditions Where Practice Applies

- I. This practice is limited to areas having 2:1 or flatter slopes where:
 - a. The texture of the exposed subsoil/parent material is not adequate to produce vegetative growth.
 - b. The soil material is so shallow that the rooting zone is not deep enough to support plants or furnish continuing supplies of moisture and plant nutrients.
 - c. The original soil to be vegetated contains material toxic to plant growth.
 - d. The soil is so acidic that treatment with limestone is not feasible.
- II. For the purpose of these Standards and Specifications, areas having slopes steeper than 2:1 require special consideration and design for adequate stabilization. Areas having slopes steeper than 2:1 shall have the appropriate stabilization shown on the plans.

Construction and Material Specifications

- I. Topsoil salvaged from the existing site may be used provided that it meets the standards as set forth in these specifications. Typically, the depth of topsoil to be salvaged for a given soil type can be found in the representative soil profile section in the Soil Survey published by USDA-SCS in cooperation with Maryland Agricultural Experimental Station.
- II. Topsoil Specifications - Soil to be used as topsoil must meet the following:
 - i. Topsoil shall be a loam, sandy loam, clay loam, silt loam, sandy clay loam, loamy sand. Other soils may be used if recommended by an agronomist or soil scientist and approved by the appropriate approval authority. Regardless, topsoil shall not be a mixture of contrasting textured subsoils and shall contain less than 5% by volume of cinders, stones, slag, coarse fragments, gravel, sticks, roots, trash, or other materials larger than 1 1/2" in diameter.
 - ii. Topsoil must be free of plants or plant parts such as bermuda grass, quackgrass, johnsongrass, nutsedge, poison ivy, thistle, or others as specified.
 - iii. Where the subsoil is either highly acidic or composed of heavy clays, ground limestone shall be spread at the rate of 4-8 tons/acre (200-400 pounds per 1,000 square feet) prior to the placement of topsoil. Lime shall be distributed uniformly over designated areas and worked into the soil in conjunction with tillage operations as described in the following procedures.
- III. For sites having disturbed areas under 5 acres:
 - i. Place topsoil (if required) and apply soil amendments as specified in 20.0 Vegetative Stabilization Section I - Vegetative Stabilization Methods and Materials.
- IV. For sites having disturbed areas over 5 acres:
 - i. On soil meeting Topsoil specifications, obtain test results dictating fertilizer and lime amendments required to bring the soil into compliance with the following:
 - a. pH for topsoil shall be between 6.0 and 7.5. If the tested soil demonstrates a pH of less than 6.0, sufficient lime shall be prescribed to raise the pH to 6.5 or higher.
 - b. Organic content of topsoil shall be not less than 1.5 percent by weight.
 - c. Topsoil having soluble salt content greater than 500 parts per million shall not be used.
 - d. No sod or seed shall be placed on soil which has been treated with soil sterilants or chemicals used for weed control until sufficient time has elapsed (14 days min.) to permit dissipation of phytotoxic materials.
 - ii. Place topsoil (if required) and apply soil amendments as specified in 20.0 Stabilization - Section I - Vegetative Stabilization Methods and Materials.

Note: Topsoil substitutes or amendments, as recommended by a qualified agronomist or soil scientist approved by the appropriate approval authority, may be used in lieu of natural topsoil.

V. Topsoil Application

- i. When topsoiling, maintain needed erosion and sediment control practices such as diversions, Grade Stabilization Structures, Earth Dikes, Slope Silt Fence and Sediment Traps and Basins.
 - ii. Grade on the areas to be topsoiled, which have been previously established, shall be maintained, albeit 4" - 8" higher in elevation.
 - iii. Topsoil shall be uniformly distributed in a 4" - 8" layer and lightly compacted to a minimum thickness of 4". Spreading shall be performed in such a manner that sodding or seeding can proceed with a minimum of additional soil preparation and tillage. Any irregularities in the surface resulting from topsoiling or other operations shall be corrected in order to prevent the formation of depressions or water pockets.
 - iv. Topsoil shall not be placed while the topsoil or subsoil is in a frozen or muddy condition, when the subsoil is excessively wet or in a condition that may otherwise be detrimental to proper grading and seeded preparation.
- VI. Alternative for Permanent Seeding - Instead of applying the full amounts of lime and commercial fertilizer, composted sludge and amendments may be applied as specified below:
- i. Composted Sludge Material use as a soil conditioner for sites having disturbed areas over 5 acres shall be tested to prescribe amendments and for sites having disturbed areas under 5 acres shall conform to the following requirements:
 - a. Composted sludge shall be supplied by, or originate from, a person or persons that permitted (at the time of acquisition of the compost) by the Maryland Department of the Environment under COMAR 26.04.06.
 - b. Composted sludge shall contain at least 1 percent nitrogen, 1.5 percent phosphorus, and 0.2 percent potassium and have a Ph of 7.0 to 8.0. If compost does not meet these requirements, the appropriate constituents must be added to meet the requirements prior to use.
 - c. Composted sludge shall be applied at a rate of 1 ton/1,000 square feet.
 - ii. Composted sludge shall be amended with a potassium fertilizer applied at the rate of 4 lb/1,000 square feet, and 1/3 the normal lime application rate.

References: Guideline Specifications, Soil Preparation and Sodding, Md-VA, Pub. #1, Cooperative Extension Service, University of Maryland and Virginia Polytechnic Institutes.

PERMANENT SEEDING NOTES

Apply to graded or cleared area not subject to immediate further disturbance where a permanent long-lived vegetative cover is needed.

SEEDBED PREPARATION: Loosen upper three inches of soil by raking, discing or other acceptable means before seeding. (If not previously loosened)

SOIL AMENDMENTS: In lieu of soil test recommendations, use on the following schedules.

- 1) Preferred - Apply 2 tons per acre dolomitic limestone (82 lbs/1000 sf) and 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sf) before seeding. Harrow or disc into upper three inches of soil. At time of seeding, apply 400 lbs per acre 30-0-0 ureaform fertilizer (9 lbs/1000 sf).
- 2) Acceptable - Apply 2 tons per acre dolomitic limestone (82 lbs/1000 sf) and 1000 lbs per acre 10-10-10 fertilizer (23 lbs/1000 sf) before seeding. Harrow or disc into upper three inches of soil.

SEEDING: For the periods March 1 through April 30 and August 1 through October 15, seed with 80 lbs per acre (14 lbs/1000 sf) of Kentucky 31 Tall Fescue per acre and 2 lbs per acre (0.05 lbs/1000 sf) of Weeping Lovegrass. During the period of October 16 through February 28, protect site by: Option 1) 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring. Option 2) use sod. Option 3) seed with 60 lbs/acre Kentucky 31 Tall Fescue and mulch with 2 tons/acre well anchored straw.

MULCHING: Apply 1-1/2 to 2 tons per acre (70 to 90 lbs/1000 sf) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (5 gal/1000 sf) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8 gal/1000 sf) for anchoring.

MAINTENANCE: Inspect all seeded areas and make needed repairs, replacements and reseedings.

TEMPORARY SEEDING NOTES

Apply to graded or cleared areas likely to be redisturbed where a short-term vegetative cover is needed.

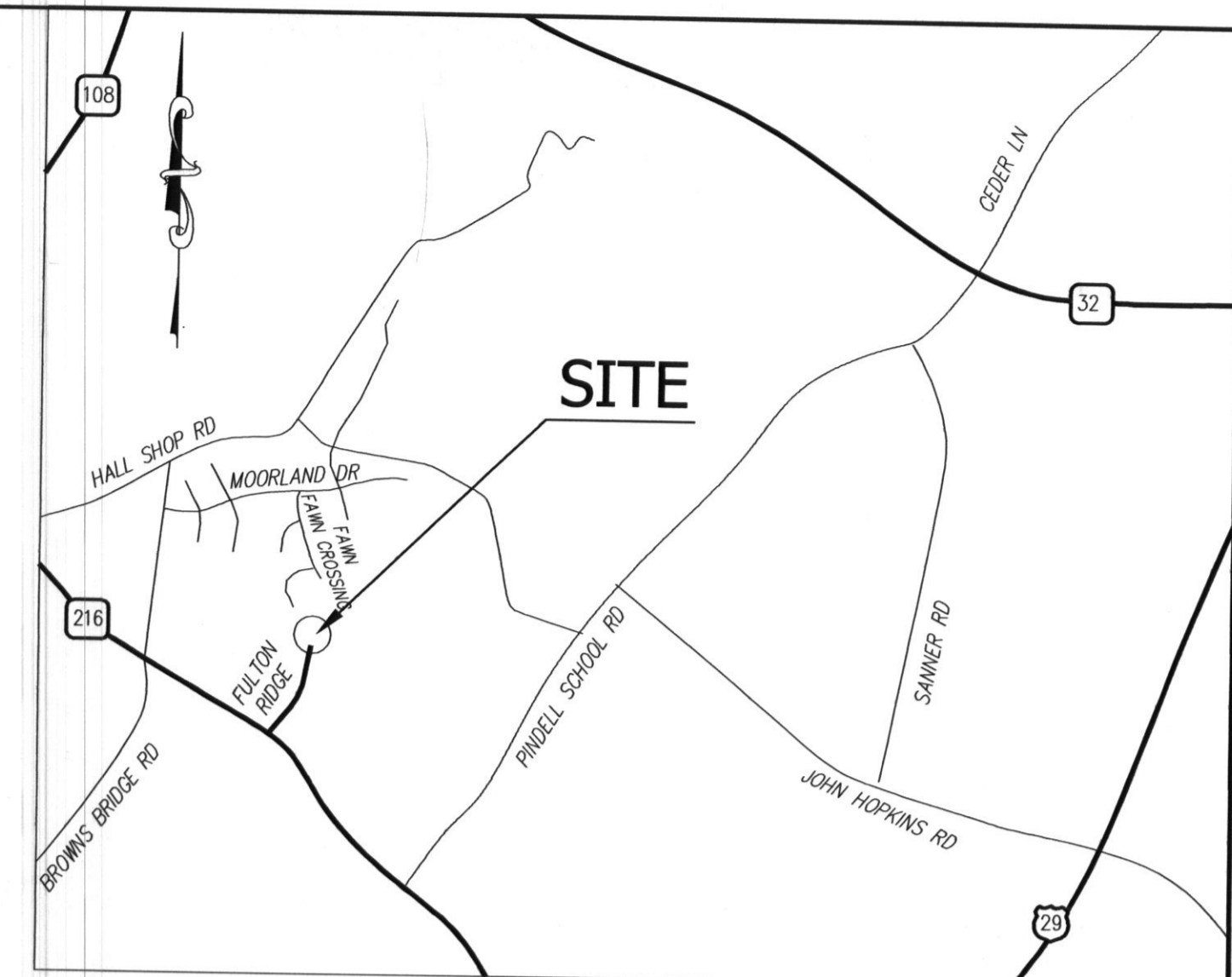
SEEDBED PREPARATION: Loosen upper three inches of soil by raking, discing or other acceptable means before seeding. (If not previously loosened)

SOIL AMENDMENTS: Apply 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sf).

SEEDING: For periods March 1 through April 30 and from August 15 through November 15, seed with 2-1/2 bushels per acre of annual ryegrass (3.2 lbs/1000 sf). For the period May 1 through August 14, seed with 3 lbs per acre of Weeping Lovegrass (0.07 lbs/1000 sf). For the period November 16 through February 28, protect site by applying 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring, or use sod.

MULCHING: Apply 1-1/2 to 2 tons per acre (70 to 90 lbs/1000 sf) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (5 gal/1000 sf) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8 gal/1000 sf) for anchoring.

Refer to the 1994 Maryland Standards and Specifications for Soil Erosion and Sediment Control for rate and methods not covered.



ADC MAP 18, GRIDE E-2

STANDARD EROSION AND SEDIMENT CONTROL NOTES

1. A minimum of 48 hours notice must be given to the Howard County Department of Inspections, Licenses and permits, sediment control divisions prior to the start of any construction (313-1855).
2. All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 1994 Maryland standards and specifications for soil erosion and sediment control and revisions thereto.
3. Following initial soil disturbance or re-disturbance, permanent or temporary stabilization shall be completed within: A) 7 calendar days for all perimeter sediment control structures, dikes, perimeter slopes, and all slopes steeper than 3:1 B) 14 days as to all other disturbed or graded areas on the project site.
4. All sediment traps/basins shown must be fenced and warning signs posted around the perimeter in accordance with vol.1, chapter 7, of the Howard county design manual, storm drainage.
5. All disturbed areas must be stabilized within the time period specified above in accordance with the 1994 Maryland standards and specifications for soil erosion and sediment control for permanent seeding, SOD, temporary seeding, and mulching. (see 6). Temporary stabilization with mulch alone shall only be done when recommended seeding dates do not allow for proper germination and established of grasses.
6. All sediment control structures are to be remain in place and are to be maintained in operative condition until permission for their removal has been obtained from the Howard county sediment control inspector.
7. Site Analysis:

Total area of site	0.9205 Acres
Area Disturbed	0.70 Acres
Area to be roofed or paved	0.23 Acres
Area to be vegetatively stabilized	0.47 Acres
Total cut	475 Cu. Yards
Total fill	475 Cu. Yards

 offsite waste/borrow location to have an active grading permit.
8. Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
9. Additional sediment controls must be provided, if deemed necessary by the Howard county sediment control inspector.
10. On all sites with disturbed areas in excess of 2 Acres, approval of the inspection agency shall be requested upon completion of installation of perimeter erosion and sediment controls, but before proceeding with any other earth disturbance or grading. Other building or grading inspection approvals may not be authorized until this initial approval by the inspection agency is made.
11. Trenches for the construction of utilities is limited to three pipe lengths or that which shall be back-filled and stabilized within one working day, whichever is shorter.
12. Site grading will begin only after all perimeter sediment control measures have been installed and are in a functioning condition.
13. Sediment will be removed from traps when its depth reaches clean out elevation shown on the plans.
14. Cut and fill quantities provided under site analysis do not represent bid quantities. These quantities do not distinguish between topsoil, structural fill or embankment material, nor do they reflect consideration of undercutting or removal of unsuitable material. The contractor shall familiarize himself with site conditions which may affect the work.

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.: 19372
EXPIRATION DATE: 3/19/2011

REDLINE

SITE GRADING, EROSION & SEDIMENT CONTROL PLAN

MARCH 03, 2010

PATEL RESIDENCE

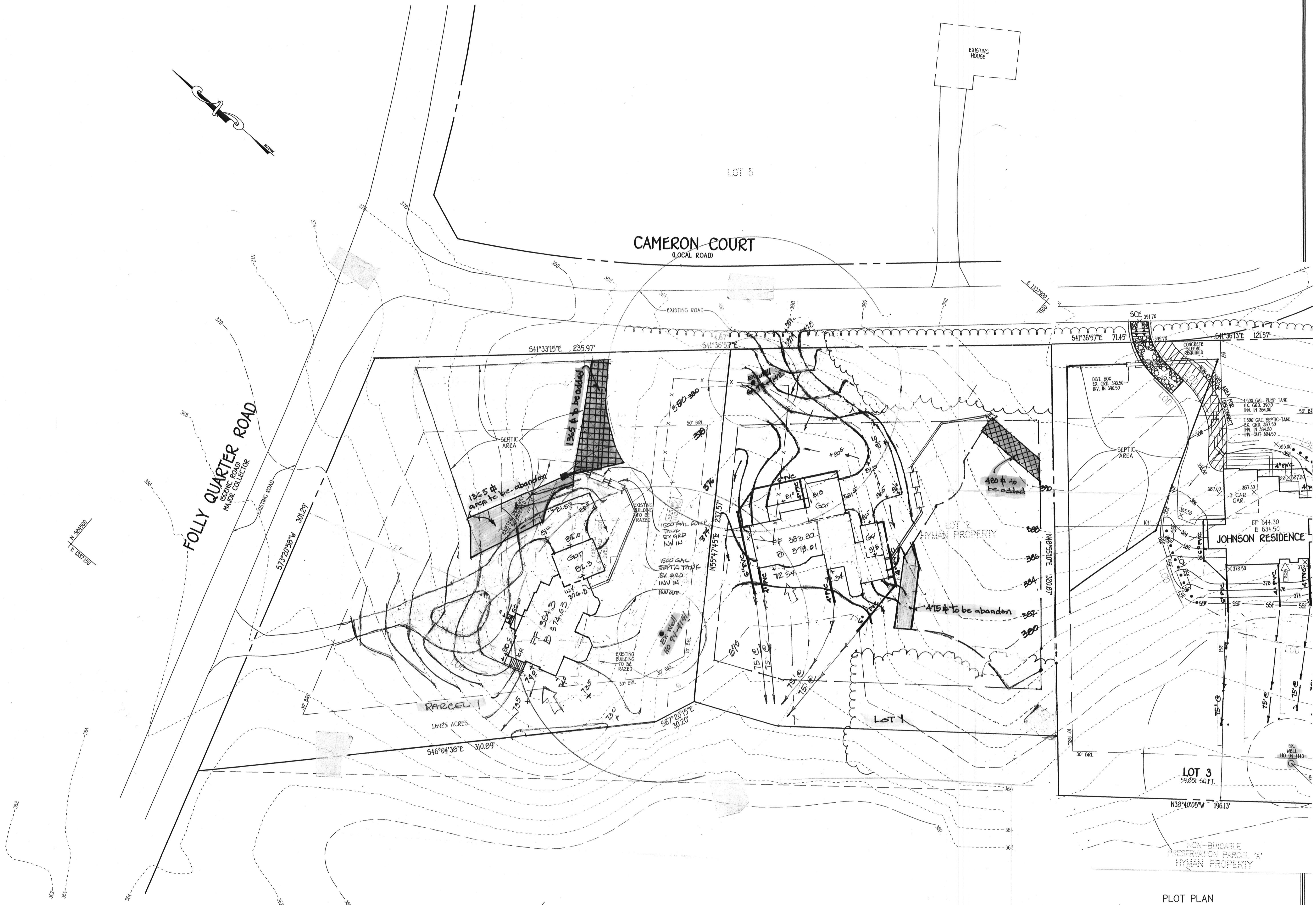
Lot #7, 12135 Fulton Ridge Dr., Fulton, MD 20715

AB CONSULTANTS, INC.

9450 LANHAM, MD 20716

PROJ. NO. RB03.09
SHEET NO. C-01

LEGEND	
SYMBOL	DESCRIPTION
---	EXISTING CONTOUR 2' INTERVAL
- - -	PROPOSED CONTOUR 2' INTERVAL
+ 362.5	SPOT ELEVATION
-sf- sf-	SILT FENCE
LOD	LIMITS OF DISTURBANCE
~~~~~	EXISTING TREELINE



PLOT PLAN  
**HYMAN PROPERTY**  
 Parcel 1 and Lot 1  
 ZONED RC-DEO  
 TAX MAP NO.: 23 PARCEL NO.: 29 GRID NO.: 9  
 THIRD ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
 SCALE: 1" = 30' DATE: NOVEMBER, 2005