



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: _____

Permit No.: 217000103

Building Address: 6109 EDWARFIELD RD
 City: _____ State: _____ Zip Code: _____
 Suite/Apt. # _____ SDP/WP/BA #: _____
 Subdivision: _____
 Lot: 3 Tax Map: 440341676 Parcel: 356

Existing Use: VACANT
 Proposed Use: Single Family Residential
 Estimated Construction Cost: \$ 260,000

Description of Work: Two floor unfinished basement & bedrooms 5 1/2 bath
Garage porch and balcony
3 car garage attached

Occupant/Tenant Name: _____
 Was tenant space previously occupied? Yes No
 Contact Name: _____
 Address: _____
 City: _____ State: _____ Zip Code: _____
 Phone: _____ Fax: _____
 Email: _____

Property Owner's Name: William Pennington
 Address: 6112 Edwarfield Rd
 City: White State: MD Zip Code: 21123
 Phone: 410-276-3100 Fax: _____
 Email: scrowder@comcast.net

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

Contractor Company: Decker Home Inc
 Contact Person: Scott Lee
 Address: 14122 Montross Cir
 City: White State: MD Zip Code: 21103
 License No.: 1111111111
 Phone: 410-226-2100 Fax: _____
 Email: scrowder@comcast.net

Engineer/Architect Company: Proactive Design & Build
 Responsible Design Prof.: Chunick Alcega
 Address: 6505 Liberty Road
 City: Baltimore State: MD Zip Code: 21207
 Phone: 410-226-2100 Fax: _____
 Email: scrowder@comcast.net

Commercial Building Characteristics	Residential Building Characteristics	
Height: <u>11</u>	<input checked="" type="checkbox"/> SF Dwelling <input type="checkbox"/> SF Townhouse	
No. of stories: <u>2</u>	Depth	Width
Gross area, sq. ft./floor:	1 st floor: <u>10</u>	<u>10</u>
	2 nd floor: <u>10</u>	<u>10</u>
Area of construction (sq. ft.):	Basement: <u>10</u>	<u>10</u>
	<input checked="" type="checkbox"/> Finished Basement	
Use group: <u>Residential</u>	<input type="checkbox"/> Unfinished Basement	
	<input type="checkbox"/> Crawl Space	
Construction type:	<input type="checkbox"/> Slab on Grade	
<input type="checkbox"/> Reinforced Concrete	No. of Bedrooms: <u>4</u>	
<input type="checkbox"/> Structural Steel	Multi-family Dwelling	
<input type="checkbox"/> Masonry	No. of efficiency units:	
<input checked="" type="checkbox"/> Wood Frame	No. of 1 BR units:	
<input type="checkbox"/> State Certified Modular	No. of 2 BR units:	
	No. of 3 BR units:	
	Other Structure:	
	Dimensions:	
Roadside Tree Project Permit	Footings:	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Roof:	
Roadside Tree Project Permit #	<input type="checkbox"/> State Certified Modular	
	<input type="checkbox"/> Manufactured Home	

Utilities	
Electric:	<input type="checkbox"/> Yes <input type="checkbox"/> No
Gas:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Water Supply	
<input type="checkbox"/> Public	
<input checked="" type="checkbox"/> Private	
Sewage Disposal	
<input type="checkbox"/> Public	
<input checked="" type="checkbox"/> Private	
Heating System	
<input checked="" type="checkbox"/> Electric <input type="checkbox"/> Oil	
<input type="checkbox"/> Natural Gas <input type="checkbox"/> Propane Gas	
<input type="checkbox"/> Other:	
Sprinkler System:	
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Grading Permit Number: <u>019000616</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: Scrowder@comcast.net
 Email Address: _____
 Title/Company: _____

Print Name: Scott Lee
 Date: 07/30/2019

Checks Payable to: DIRECTOR OF FINANCE OF HOWARD COUNTY
 PLEASE WRITE NEATLY & LEGIBLY
 -FOR OFFICE USE ONLY-

AGENCY	DATE	SIGNATURE OF APPROVAL
State Highways		
Building Officials		
PSZA (Zoning)		
PSZA (Engineering)		
Health	<u>11/4/19</u>	<u>H. Oswald</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>150</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	#

Distribution of Copies: White: Building Officials Green: PSZA,Zoning Yellow: PSZA,Engineering Pink: Health Gold: SHA

Oswald, Hank

From: seunowo@proactivedbs.com
Sent: Monday, October 28, 2019 10:20 PM
To: Oswald, Hank
Cc: Peyman Gohari; raztecengr@comcast.net
Subject: 16109 ED WARFIELD ROAD, WOODBINE MD
Attachments: SIMPLIFIED FLOOR PLAN - Sheet - A103 - BASEMENT PLAN.pdf; SIMPLIFIED FLOOR PLAN - Sheet - A104 - MAIN LEVEL PLAN.pdf; SIMPLIFIED FLOOR PLAN - Sheet - A105 - UPPER LEVEL FLOOR PLAN.pdf

[Note: This email originated from outside of the organization. Please only click on links or attachments if you know the sender.]

Hank,
Good morning, please find the attached simplified floor plans , with the floor plans showing the poured foundation balcony changed to a raised wood deck with no poured foundation.
Thanks

Seun Owojuyigbe
Cell: (443).226.8700

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Oswald, Hank

From: Oswald, Hank
Sent: Wednesday, October 16, 2019 2:57 PM
To: SEUNOWO@PROACTIVEDBS.COM; SEUNOWO1@YAHOO.COM
Subject: B19003403_16109 Ed Warfield Road

Hello:

This office is in receipt of a building permit for a Single Fam Dwelling located at 16109 Ed Warfield Road. Prior to BP approval, this office will need the following;

- 1.) An approved Onsite Sewage Disposal Site (OSDS) plan for 5 bedrooms.
- 2.) Verification on whether the unfinished basement has a full bathroom rough-in.

Should you have any questions, please don't hesitate to ask.

Respectfully,

Hank

Hank Oswald
Licensed Environmental Health Specialist
Howard County Health Department
Bureau of Environmental Health
Well & Septic Program
8930 Stanford Boulevard
Columbia, MD 21045
410.313.1786 (Office)
hoswald@howardcountymd.gov



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COMPLETE THIS FORM WHEN DROPPING OFF ANY
CORRESPONDENCE AND/OR PLANS TO THE HOWARD COUNTY
DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS COUNTER:

Date: 10/31/2019

To: Mr Dan Swinder RECEIVED
1908 11 2019
(Person's Name and Division)

From: Oluwaseun Owojuyigbe (443) 226-8700
(Your Name, Company Name and Telephone Number)

Subject: Project name Single family House PLAN REVIEW DIVISION
Project site address 16109 Ed Warfield Road Woodbine MD 21797
Permit # B19003403 SDP # _____
Other information pertinent to this project _____

✓ Please check the attachments below that you are submitting with this transmittal:

- Letter of response to address plan review comment letter
- Revised plans and/or revised details: When submitting for a complete re-review, **duplicate sets shall be submitted.**
- Letter Summarizing Changes
- Energy conservation calculations
- Copies of _____ (be specific).
- _____ Health Department Request _____ DPZ/ DED Request _____ Applicant's Request
- _____ Two sets of single family dwelling model plans to be placed on permanent file: Model name and/or # _____
- _____ Other _____

Contact Person Information: (Required)

Oluwaseun Owojuyigbe
Please Print Name

Telephone No: (443) -226-8700

E-Mail Address: Seunowu1@yahoo.com

PLEASE ASSURE ALL DOCUMENTS AND/OR REVISIONS ARE APPROPRIATELY SIGNED AND SEALED, IF NECESSARY, BY A LICENSED ARCHITECT OR ENGINEER. PLEASE BE ADVISED THAT INSUFFICIENT INFORMATION MAY RESULT IN THE DELAY OF REVIEW BY THE PLANS EXAMINER. THE DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS WILL CONTACT YOU IF THERE IS A PROBLEM. IN ADDITION, ONCE THE BUILDING PERMIT IS APPROVED BY THE PLAN REVIEW DIVISION AND ALL OTHER REQUIRED SIGNATORY AGENCIES, AND THE BUILDING PERMIT IS READY FOR ISSUANCE, THE PERMIT DIVISION WILL NOTIFY THE APPROPRIATE CONTACT PERSON FOR PERMIT PICK UP. ALL PERMIT STATUS INQUIRIES SHALL BE DIRECTED TO THE PERMIT DIVISION AT 410-313-2455. CODE RELATED QUESTIONS AND PLAN REVIEW INQUIRIES SHALL BE DIRECTED TO THE PLAN REVIEW DIVISION AT 410-313-2436. PLEASE ALLOW A MINIMUM OF FIVE (5) WORKING DAYS FOR ANY PLAN SUBMITTALS TO BE REVIEWED. THANK YOU.

Received by MP

White-Plan Review / Yellow-Applicant / Pink-Permit Division
t:\Operations\Updated forms\transmit.frm - Rev. 04/2014

Revision
cc: P+Z
Heather

Building Address: 16109 Ed Warfield Road
Woodbine MD 21797
Permit #: B19003403

Responding to Comments:

- ①. Change the roof snow load to 40PSF
- ②. structural engineer to stamp and sign the structural drawings
- ③. Total building square footage revised.
- ④. Balcony at the back of building change from. Poure concrete to wooden deck.

Owner:

Oluxaseun Duojuyibe
(443)-226-8700

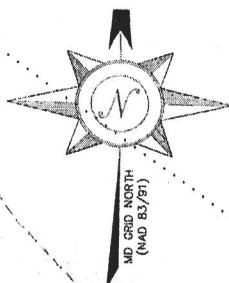
RECEIVED

OCT 31 2019

LICENSES & PERMITS
DIVISION

1-Yr Rain
Q10 = 1.3

PROJ
Study P
D.A. = 1.7
RCN = 6
Tc = 0.3
1-Yr Rain
Q10 = 1.3



STUDY POINT A
D.A. = 1.68 AC.
ON-SITE D.A. = 1.00 AC.
OFF-SITE D.A. = 0.68 AC.

OAKDALE FARM LLC
16449 ED WARFIELD ROAD, WOODBINE, MD 21797
TAX ID: 1404319745
ZONING: RC-DEO

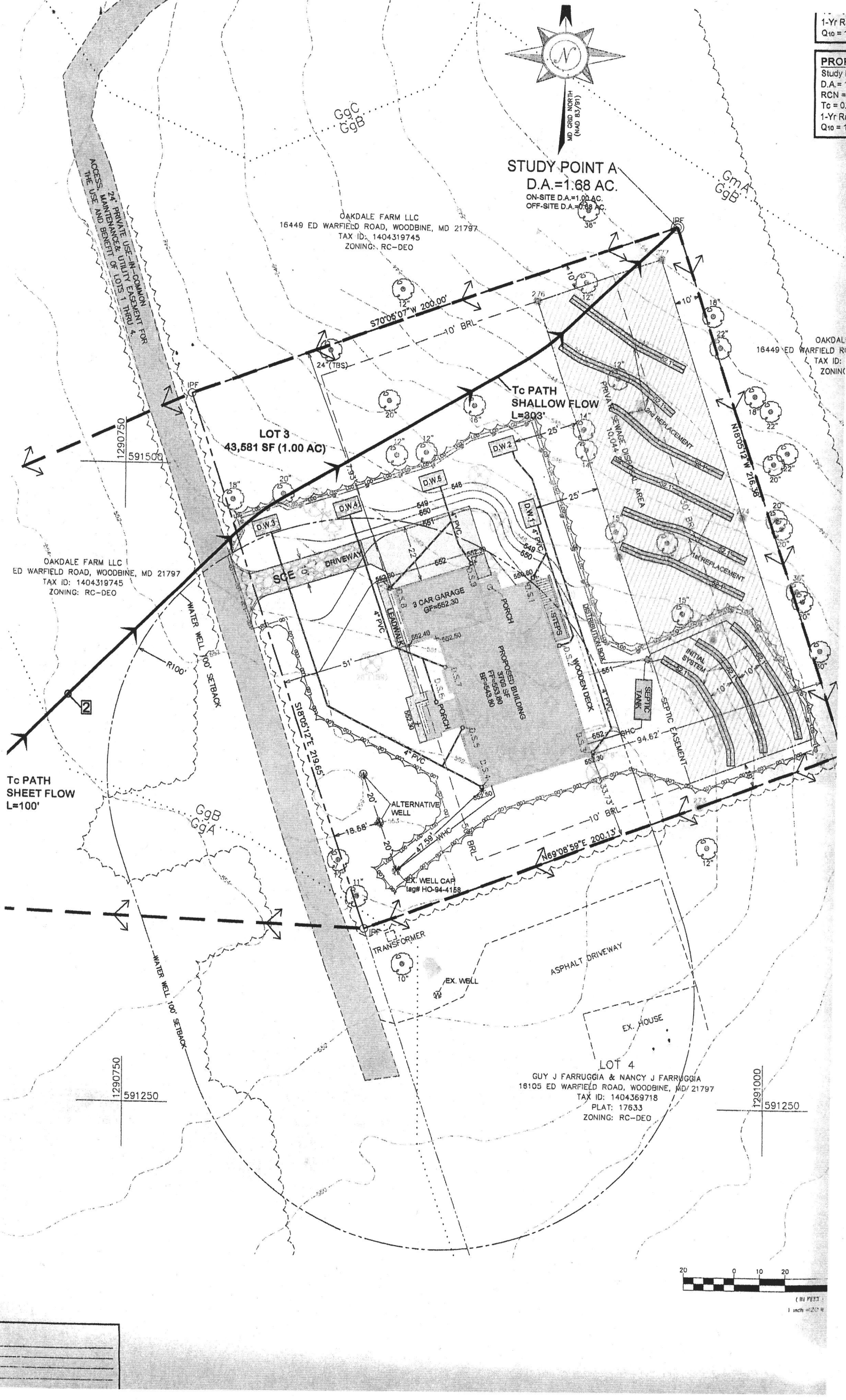
LOT 3
43,581 SF (1.00 AC)

OAKDALE FARM LLC
ED WARFIELD ROAD, WOODBINE, MD 21797
TAX ID: 1404319745
ZONING: RC-DEO

LOT 4
GUY J FARRUGGIA & NANCY J FARRUGGIA
18105 ED WARFIELD ROAD, WOODBINE, MD/21797
TAX ID: 1404369718
PLAT: 17633
ZONING: RC-DEO

Tc PATH
SHEET FLOW
L=100'

Tc PATH
SHALLOW FLOW
L=303'



(IN FEET)
1 inch = 20'



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: _____

Permit No.: B20001347

Building Address: 16109 ED WARFIELD ROAD
 City: WOODBINE State: MD Zip Code: 21797
 Suite/Apt. # _____ SDP/WP/BA #: _____
 Census Tract: _____ Subdivision: _____
 Section: _____ Area: _____ Lot: 3
 Tax Map: _____ Parcel: _____ Grid: _____
 Zoning: _____ Map Coordinates: _____ Lot Size: _____

Existing Use: SFD
 Proposed Use: SFD W/TANK
 Estimated Construction Cost: \$ 4000
 Description of Work: INSTALL A 1000 GAL UNDERGROUND GROUND PROPANE TANK
 Occupant/Tenant Name: _____
OWNER Was tenant space previously occupied? Yes No Contact Name: _____ Address: _____ City: _____ State: _____ Zip Code: _____
 Phone: _____ Fax: _____
 Email: _____

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

Property Owner's Name: OLUBUNMI OWOJUYIGBE
 Address: 9304 OWINGS CHOICE COURT
 City: OWINGS MILLS State: MD Zip Code: 21117
 Phone: _____ Fax: _____
 Email: _____

Applicant's Name & Mailing Address, (if other than stated herein)
 Applicant's Name: APPLIED & APPROVED PERMITS
 Address: PO BOX 310
 City: PERRY HALL State: MD Zip Code: 21128
 Phone: 443-610-7514 Fax: _____
 Email: MICHELLE@APPLIEDANDAPPROVED.COM

Contractor Company: TEVIS OIL
 Contact Person: C NEVIN HAINES
 Address: 1618 N MAIN STREET
 City: HAMPSTEAD State: MD Zip Code: 21074
 License No.: 468
 Phone: 410-984-0399 Fax: _____
 Email: _____

Engineer/Architect Company: CONTRACTOR
 Responsible Design Prof.: _____
 Address: _____
 City: _____ State: _____ Zip Code: _____
 Phone: _____
 Email: _____

Utilities	DIVISION
Electric: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Gas: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Water Supply	
<input type="checkbox"/> Public	
<input checked="" type="checkbox"/> Private	
Sewage Disposal	
<input type="checkbox"/> Public	
<input checked="" type="checkbox"/> Private	
Heating System	
<input type="checkbox"/> Electric <input type="checkbox"/> Oil	
<input type="checkbox"/> Natural Gas <input type="checkbox"/> Propane Gas	
<input type="checkbox"/> Other:	
Sprinkler System:	
<input type="checkbox"/> Yes <input type="checkbox"/> No	
Grading Permit Number:	
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: MICHELLE CLANCY
 MICHELLE@APPLIEDANDAPPROVED.COM
 Email Address
 PERMITS
 Title/Company

Print Name: MICHELLE CLANCY
 Date: 4/20/2020

Checks Payable to: DIRECTOR OF FINANCE OF HOWARD COUNTY
 PLEASE WRITE NEATLY & LEGIBLY
 -FOR OFFICE USE ONLY-

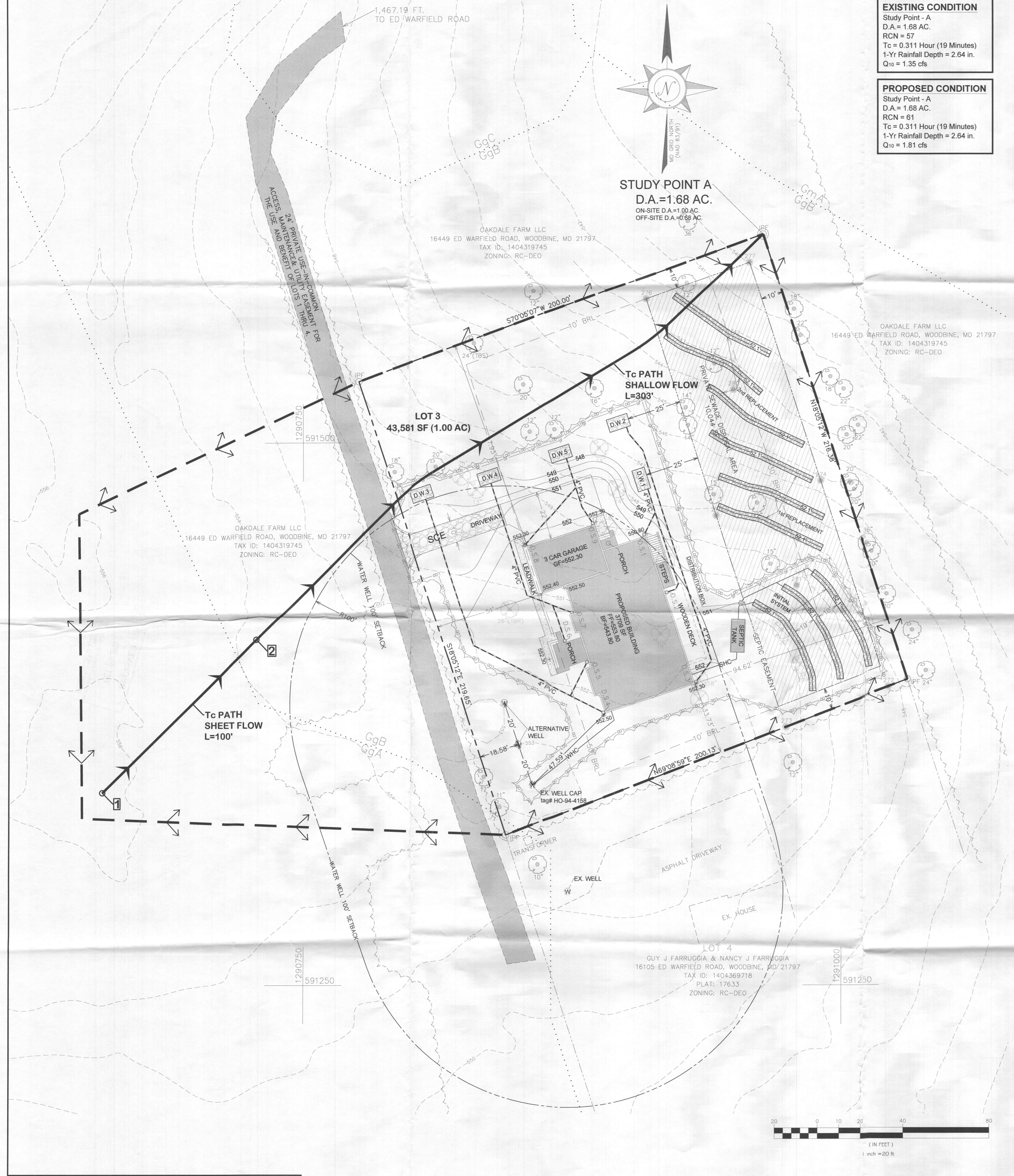
AGENCY	DATE	SIGNATURE OF APPROVAL
State Highways		
Building Officials		
PSZA (Zoning)		
PSZA (Engineering)		
Health	<u>5/7/20</u>	<u>[Signature]</u>

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	\$
Permit Fee	\$
Tech Fee	\$
Excise Tax	\$
PSFS	\$
Guaranty Fund	\$
Add'l per Fee	\$
Total Fees	\$
Sub- Total Paid	\$
Balance Due	\$
Check	#

Distribution of Copies: White: Building Officials Green: PSZA,Zoning Yellow: PSZA,Engineering Pink: Health Gold: SHA



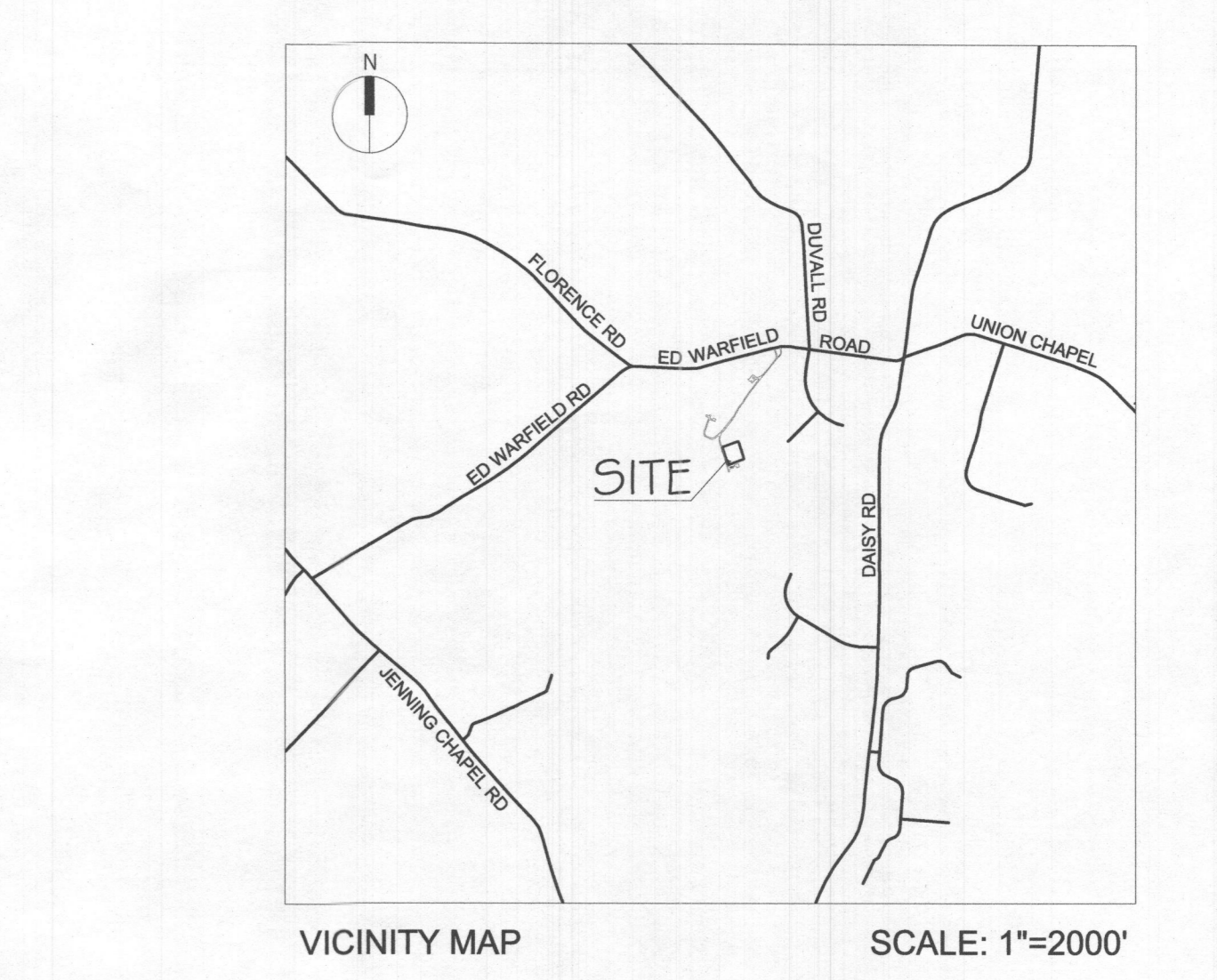
EXISTING CONDITION
 Study Point - A
 D.A. = 1.68 AC.
 RCN = 57
 Tc = 0.311 Hour (19 Minutes)
 1-Yr Rainfall Depth = 2.64 in.
 Q10 = 1.35 cfs

PROPOSED CONDITION
 Study Point - A
 D.A. = 1.68 AC.
 RCN = 61
 Tc = 0.311 Hour (19 Minutes)
 1-Yr Rainfall Depth = 2.64 in.
 Q10 = 1.81 cfs

Address: 16109 ED WARFIELD ROAD, WOODBINE, MD 21797	
Lot #: 3	
Limit of Disturbed (LOD) Area: 19475.00 S.F.	
Impervious Area	
Based On Lot Area	Based On LOD
Building & Porch (Roof): 4775.00 S.F.	Building & Porch (Roof): 4775.00 S.F.
Drive Way: 1285.00 S.F.	Drive Way: 1285.00 S.F.
Septic Tank: 101.00 S.F.	Septic Tank: 101.00 S.F.
Leadwalk, Steps & Balcony: 344.00 S.F.	Leadwalk, Steps & Balcony: 344.00 S.F.
Total Impervious Area (Site Area): 6505.00 S.F.	Total Impervious Area (LOD): 6505.00 S.F.
Percent Total Impervious Area: 14.93%	(I) Based on entire lot
Percent Impervious Area (BASED ON LOD): 33.40%	(II) Based on LOD

Hydrologic Soil Group:	A	B	C	D
Soil Type:	---	GgA, GgB	---	---
Percentage:	0.00%	100.00%	0.00%	0.00%

Target PE: 1.00 inch Based on entire lot
 $R_v = 0.05 + 0.009(II) = 0.351$ Based on LOD
 $ESD_v = (PE)(R_v)(A)^{12} = 569.02 \text{ C.F.}$ REQUIRED ESD_v



- GENERAL NOTES**
- Project Name: 16109 ED WARFIELD ROAD
 - Project Address: 16109 Ed Warfield Road, Woodbine, MD 21797
 - Owners: OLUBUNMI OWOJUYIGBE & OLUWASEUN OWOJUYIGBE
 - Net Tract Area: 43,581 SF (1.00 AC)
 - Lot #: 3
 - Parcel #: 356
 - Plat #: 17633
 - Map: 13
 - Grid: 23
 - Liber: 18667
 - Folio: 8
 - Tax Account #: 1404369699
 - Election District Number: 4
 - Zoning: RC-DEO
 - Existing Use: Vacant
 - Proposed Use: Residential (Single Family)
 - Watershed: Brington Dam
 - Setbacks:

Front	Required 50'	Provided 51'
Sides	10'	33.73' & 97.93'
Rear	30'	64.62'
 - The topography information shown hereon is based on field-run survey, conducted in May, 2019 by SURVEYORS DEVELOPMENT & ASSOCIATES LLC, 3230 Chillum Rd, Mount Rainier, MD 20712
 - Stormwater Management is in accordance with chapter 5 of the Maryland Stormwater Management Manual, Volume 1 & II revised 2009. We are providing five Dry-Wells (M-5).
 - This property is served by Septic and Well.
 - Forest Conservation will not be required, since the amount of forest removed on this property will be 15,123 SF which is below the 20,000 SF threshold.
 - This project is not subject to the requirements of The Howard County Subdivision Requirements, since this property was created 2005, and has not been altered since.
 - No Environmental Feature exist within the LOD.

LEGEND

FEATURE	SYMBOL	FEATURE	SYMBOL
EXISTING STRUCTURES	EX	EXISTING WATER LINE	---
PROPOSED STRUCTURES	---	EXISTING SEWER LINE	---
BUILDING RESTRICTION LINE	10' BRL	PROP. WATER HOUSE CONNECTION	WMC
PROPERTY BOUNDARY LINE	---	PROP. SEWER HOUSE CONNECTION	SHC
OVERHEAD ELECTRIC WIRE	OH	PROP. SEWER DRAINFIELD TRENCH	---
ROAD CENTERLINE	---	PROP. SEWER DISTRIBUTION BOX	SDX
EXISTING TOPOGRAPHY	---	PERCOLATION TEST PIT	PTP
PROPOSED GRADING	---	PROP. GRAVEL DRYWELL	D.W.
PROP. SPOT ELEVATION	+190.2	PROP. STORM DRAIN LEADER	---
EXISTING TREE LINE	---	PROP. DOWN-SPOUT	---
PROPOSED TREE LINE	---	SOIL TYPE BOUNDARY	---
EXISTING FENCE	---	EXISTING WATER WELL	W
LIMIT OF DISTURBANCE	---	SEWAGE/WATER EASEMENT	---
STEEP SLOPES (25% AND GREATER)	---	PROP. SILT FENCE	SF
PROP. ELECTRICITY POWER LINE	---	To PATH	---
SPECIMEN TREE (TO BE SAVED)	---	DRAINAGE AREA LINE	---
SPECIMEN TREE (TO BE REMOVED)	---	PROP. STABILIZED CONSTRUCTION ENTRANCE	---

NOTE
 LIMIT OF DISTURBANCE = 19,475 SF

NOTE
 NO GRADING OR PLACEMENT OF DIRT/EARTH OR EQUIPMENT IS ALLOWED WITHIN THE SEPTIC AREA.

SITE GRADING PLAN

16109 ED WARFIELD ROAD

PROJECT ADDRESS: 16109 ED WARFIELD RD., WOODBINE, MD 21797

OWNER/APPLICANT INFO: OLUBUNMI OWOJUYIGBE & OLUWASEUN OWOJUYIGBE, 9304 OWINGS CHOICE CT., OWINGS MILLS, MD 21117

MAP GRID: 13, 23
 PLAT #: 17633
 TAX ACC.: 18668096
 PARCEL: 356

ZONING: RC-DEO
 LOT #: 3
 LIBER: 18667
 FOLIO: 8

4th DISTRICT
 HOWARD COUNTY, MD

RAZTEC ASSOCIATES, INC.
 civil engineers & planners

341 W. Patrick St., Frederick, MD 21701 | Tel: (301) 775-4394 | email: razteceng@comcast.net

PROFESSIONAL'S REVIEW STATEMENT: I 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 NUMBER: 2342. EXPIRES: JUNE 15, 2020

Provide Drywells to Attenuate Roof Runoff

Gravel Drywell #1
 DA To DS = 994.00 S.F.
 Provide maximum volume equal to 2.7' of rainfall therefore volume allowed is:
 $V = (2.64" \times .95)(994 \text{ S.F.}) / 12 = 207.75 \text{ C.F.}$

Provide Gravel Drywell System
 Void Ratio: 0.40

Size Drywell:
 Depth = 5.00 Feet
 Length = 10.00 Feet
 Width = 6.00 Feet
 Drywell Area = 60.00 S.F.
 Volume Provided = (0.4)(Area)(Depth) = 120.00 C.F.
 Rainfall Attenuated by this System is $ESD_v = (PE)(R_v)(A)^{12}$
 Re-Arranging: $PE = 12ESD_v(R_v)(A) = 1.52$ inch <2.64 inch-OK

Gravel Drywell #2
 DA To DS = 960.00 S.F.
 Provide maximum volume equal to 2.7' of rainfall therefore volume allowed is:
 $V = (2.64" \times .95)(960 \text{ S.F.}) / 12 = 200.64 \text{ C.F.}$

Provide Gravel Drywell System
 Void Ratio: 0.40

Size Drywell:
 Depth = 5.00 Feet
 Length = 10.00 Feet
 Width = 6.00 Feet
 Drywell Area = 60.00 S.F.
 Volume Provided = (0.4)(Area)(Depth) = 120.00 C.F.
 Rainfall Attenuated by this System is $ESD_v = (PE)(R_v)(A)^{12}$
 Re-Arranging: $PE = 12ESD_v(R_v)(A) = 1.58$ inch <2.64 inch-OK

Gravel Drywell #3
 DA To DS = 978.00 S.F.
 Provide maximum volume equal to 2.7' of rainfall therefore volume allowed is:
 $V = (2.64" \times .95)(978 \text{ S.F.}) / 12 = 204.4 \text{ C.F.}$

Provide Gravel Drywell System
 Void Ratio: 0.40

Size Drywell:
 Depth = 5.00 Feet
 Length = 10.00 Feet
 Width = 6.00 Feet
 Drywell Area = 60.00 S.F.
 Volume Provided = (0.4)(Area)(Depth) = 120.00 C.F.
 Rainfall Attenuated by this System is $ESD_v = (PE)(R_v)(A)^{12}$
 Re-Arranging: $PE = 12ESD_v(R_v)(A) = 1.55$ inch <2.64 inch-OK

Gravel Drywell #4
 DA To DS = 951.00 S.F.
 Provide maximum volume equal to 2.7' of rainfall therefore volume allowed is:
 $V = (2.64" \times .95)(951 \text{ S.F.}) / 12 = 198.76 \text{ C.F.}$

Provide Gravel Drywell System
 Void Ratio: 0.40

Size Drywell:
 Depth = 5.00 Feet
 Length = 10.00 Feet
 Width = 6.00 Feet
 Drywell Area = 60.00 S.F.
 Volume Provided = (0.4)(Area)(Depth) = 120.00 C.F.
 Rainfall Attenuated by this System is $ESD_v = (PE)(R_v)(A)^{12}$
 Re-Arranging: $PE = 12ESD_v(R_v)(A) = 1.59$ inch <2.64 inch-OK

Gravel Drywell #5
 DA To DS = 892.00 S.F.
 Provide maximum volume equal to 2.7' of rainfall therefore volume allowed is:
 $V = (2.64" \times .95)(892 \text{ S.F.}) / 12 = 186.43 \text{ C.F.}$

Provide Gravel Drywell System
 Void Ratio: 0.40

Size Drywell:
 Depth = 5.00 Feet
 Length = 10.00 Feet
 Width = 6.00 Feet
 Drywell Area = 60.00 S.F.
 Volume Provided = (0.4)(Area)(Depth) = 120.00 C.F.
 Rainfall Attenuated by this System is $ESD_v = (PE)(R_v)(A)^{12}$
 Re-Arranging: $PE = 12ESD_v(R_v)(A) = 1.70$ inch <2.64 inch-OK

SUMMARY FOR LOT 3

Gravel Drywell #1: Size= 5'x 10'x6' and device Volume= 120 C.F.
 Gravel Drywell #2: Size= 5'x 10'x6' and device Volume= 120 C.F.
 Gravel Drywell #3: Size= 5'x 10'x6' and device Volume= 120 C.F.
 Gravel Drywell #4: Size= 5'x 10'x6' and device Volume= 120 C.F.
 Gravel Drywell #5: Size= 5'x 10'x6' and device Volume= 120 C.F.
Total Volume Provided=600 C.F.

Total volume provided in proposed systems is 600 C.F. which is more than the required target volume of 569.02 C.F.. Therefore, the required ESD_v to MEP has been satisfied.

Re-Arranging; $PE_{(active)} = 12ESD_v(R_v)(A) = 1.05$ inch <2.64 inch-OK

DRYWELL SCHEDULE

DRYWELL	DIMENSIONS (Length x Width x Height)	CONTRIBUTING IMPERVIOUS AREA (S.F.)	ELEV. A	ELEV. B	ELEV. C
1	(10'x6'x5')	994	547.50	546.50	541.50
2	(10'x6'x5')	960	546.50	545.50	540.50
3	(10'x6'x5')	978	550.00	549.00	544.00
4	(10'x6'x5')	951	549.00	548.00	543.00
5	(10'x6'x5')	892	547.50	546.50	541.50

PIPE SCHEDULE

FROM	TO	LENGTH (FT)	INVERT IN	INVERT OUT	SLOPE (%)
D.S.2	D.W.1	52	549.00	545.50	6.73%
D.S.3	D.W.2	127	550.80	544.50	4.96%
D.S.4	D.W.3	138	551.00	548.00	2.17%
D.S.6	D.W.4	83	550.80	547.00	4.58%
D.S.8	D.W.5	49	550.80	545.50	10.82%

REV#	DATE	

OK for LP tank
B20001342
Ruff 5/17/10

OAKDALE FARM, LLC
16449 ED WARFIELD RD, WOODBINE, MD 21797
TAX ID: 1404319745
ZONING: RCX-DEO

LOT 3
43,581 SF (1.00 AC)

PROPOSED BUILDING
3709 SF
FF=553.80
BF=543.80

3 CAR GARAGE
GIF=552.30

PRIVATE SEWAGE DISPOSAL AREA
10,044 SF

SEPTIC TANK

DISTRIBUTION BOX

BALCONY

PORCH

PORCH

LEADWALK

DRIVEWAY

SCE

16109 Ed Warfield Rd
Woodbine MD 21797
Scale 1"=30'

1"=30'

PRIVATE USE-IN-COMMON
UTILITY EASEMENT FOR
THRU 4.

