



Howard County Inspections, Licenses and Permits
3430 Court House Dr
Ellicott City, MD 21043

Re: Building Permit #B20003799
14842 Old Frederick Rd., Woodbine, MD 21797


Dear Sir or Madam:

Please find attached Plot plans for building construction for the referenced building permit, denoting an addition to a rear deck. I propose to add a 5' x 16' deck addition to meet applicable codes.

The construction of the deck will consist of the following:

- 18"d concrete footings, 30" below grade.
- 6" x 6" pressure treated support posts
- 2 - 2 x 10's, #2 SYP or better, beam upon posts
- 2 x 10 pressure treated joists, #2 SYP or better, 12" O.C.
- 1" x 6" composite decking
- Railing where required

Thank you for your consideration and assistance.


Michael P. Mueller

Baltimore
5710 FURNACE AVE. SUITE H
ELKRIDGE, MD 21075
(410) 379-6700

WASHINGTON
2500 PENNSYLVANIA AVE. N.E.
WASHINGTON, D.C. 20002
(202) 654-1100



PATRICK FAMILY LTD PARTNERSHIP
C/O DAVID B. PATRICK II
TM 8 PARCEL 18
L. 3880 / F. 53
14.85 AC.
USE: AGRICULTURAL
ZONED: RC-DEO
HOWARD COUNTY AGRICULTURAL
LAND PRESERVATION PROGRAM
EASEMENT HO-06-09-E

GEORGIA E. DOME TRUSTEES
GEORGIA W. DOME TRUSTEES
TM 8 PARCEL 24
L. 6752 / F. 674
LOT 4
61.07 AC.
USE: AGRICULTURAL
ZONED: RC-DEO
HOWARD COUNTY AGRICULTURAL
LAND PRESERVATION PROGRAM
EASEMENT HO-01-11-E

ADD
51x16'
DECK

PETIT COMMERCIAL
PROPERTIES, LLC
TM 8 PARCEL 26
MINGLEWOOD RS LOTS 1 & 2
PLAT: 17897
LOT 4
3.18 AC.
USE: RESIDENTIAL
ZONED: RC-DEO

JENNIFER T. STOUT
MICHAEL W. STOUT
TM 8 PARCEL 26
MINGLEWOOD RS LOTS 1 & 2
L. 10281 / F. 309
PLAT: 17897
LOT 5
3.28 AC.
USE: RESIDENTIAL
ZONED: RC-DEO

NICHOLAS J. LALLY
TM 8 PARCEL 27
L. 10388 / F. 356
LOT 27A
10.03 AC.
USE: AGRICULTURAL
ZONED: RC-DEO

PALL J. HELDENBRAND
MARIA G. HELDENBRAND
TM 8 PARCEL 26
MINGLEWOOD RS LOTS 1 & 2
L. 12459 / F. 216
PLAT: 17897
LOT 8
3.89 AC.
USE: RESIDENTIAL
ZONED: RC-DEO

KELIE SIEFRED
WILLIAM G. SUNKLIFF
TM 8 PARCEL 27
L. 17722 / F. 191
4.94 AC.
USE: RESIDENTIAL
ZONED: RC-DEO

ARTHUR LAMM
RUTH LAMM
TM 8 PARCEL 141
WIDERMAN-HARRISON PROP.
L. 17192 / F. 187
PLAT: 11731
LOT 1
3.03 AC.
USE: RESIDENTIAL
ZONED: RC-DEO

Approved Septic System Plan
Howard County Health Department
Deval
Signature Date
6-8-21
B20003799

REVISED
Date: 5/18/2021
Comments: B20-3799

OWNER/DEVELOPER
HAMEL BUILDERS, INC.
C/O MICHAEL MUELLER
5710 FURNACE AVE., SUITE H
ELKRIDGE, MD 21075
(410) 782-3150

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

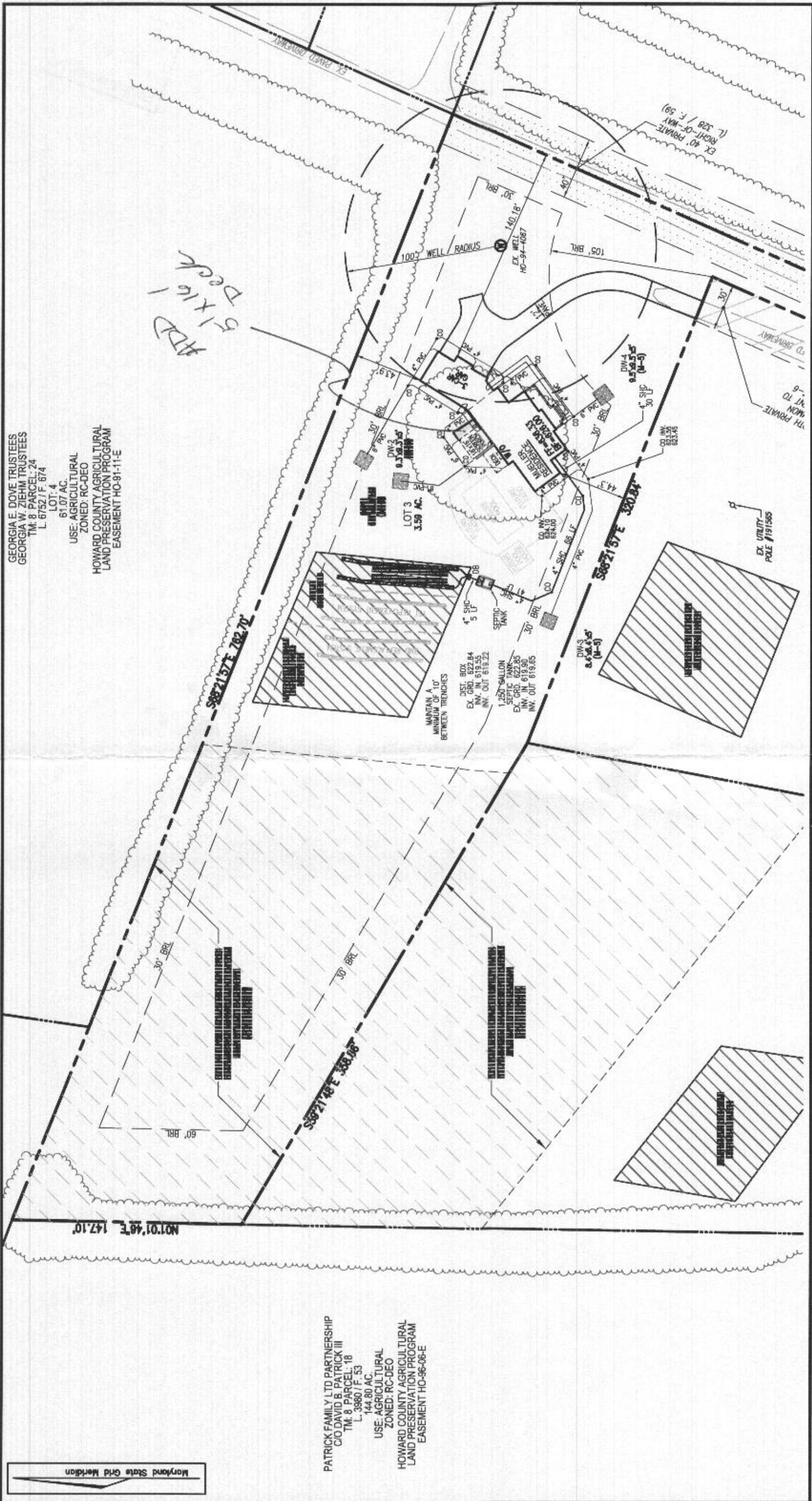
OVERALL PLAN
SCALE: 1"=100'
SCALE 1"=100'
50' 0' 100'

PLOT PLAN
MINGLEWOOD - LOT 3
14842 OLD FREDERICK ROAD
WOODBINE, MD 21797

SCALE AS SHOWN
DRAWN BY JMR
CHECKED BY RHV
DATE MARCH 12, 2021
W. O. # 2017145
SHEET# 1 OF 4

L. 9567 / F. 307
4TH ELECTION DISTRICT
TAX MAP: 8 GRID: 10

PARCEL: 26
ZONED: RC-DEO
HOWARD COUNTY, MARYLAND



GEORGIA E. DOVE TRUSTEES
 GEORGIA W. ZIEHM TRUSTEES
 TM: 8 PARCEL: 24
 L: 6752 / F: 674
 LOT: 4
 61.07 AC.
 USE: AGRICULTURAL
 ZONED: RC-DEO
 HOWARD COUNTY AGRICULTURAL
 LAND PRESERVATION PROGRAM
 EASEMENT HO-81-11-E

HDL
 5' x 16'
 Deck

PATRICK FAMILY LTD PARTNERSHIP
 C/O DAVID B. PATRICK III
 TM: 8 PARCEL: 18
 L: 3960 / F: 53
 144.80 AC.
 USE: AGRICULTURAL
 ZONED: RC-DEO
 HOWARD COUNTY AGRICULTURAL
 LAND PRESERVATION PROGRAM
 EASEMENT HO-96-08-E

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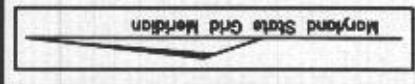
OWNER/DEVELOPER
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 C/O MICHAEL MUELLER
 5710 FURNACE AVE., SUITE H
 ELKBRIDGE, MD 21075
 (410) 782-3150

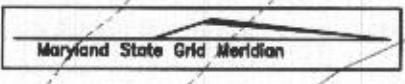
LAYOUT PLAN
 SCALE: 1" = 60'
 SCALE 1" = 60'

PLOT PLAN
MINGLEWOOD - LOT 3
 14842 OLD FREDERICK ROAD
 WOODBINE, MD 21797

L: 9567 / F: 307
 4TH ELECTION DISTRICT
 TAX MAP: B GRID: 10
 PARCEL: 26
 ZONED: RC-DEO
 HOWARD COUNTY, MARYLAND

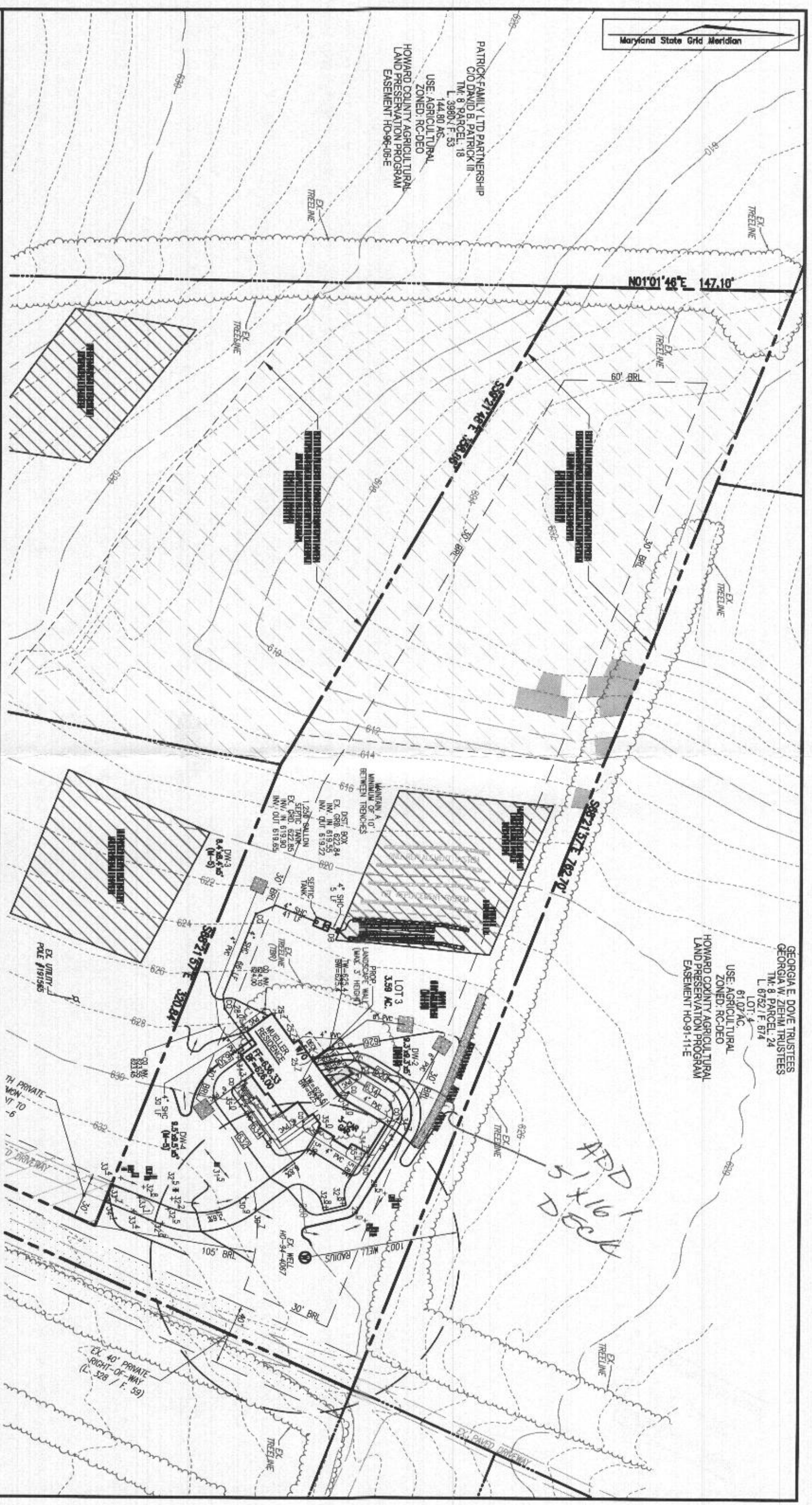
SCALE AS SHOWN
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 SHEET# 2 OF 4





PATRICK FAMILY LTD PARTNERSHIP
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GEORGIA E. DOVE TRUSTEES
GEORGIA W. ZIEHM TRUSTEES
TM: 8 PARCEL: 24
L: 8752 / F: 874
LOT: 4
61.07 AC.
USE: AGRICULTURAL
ZONED: RC-DEO
HOWARD COUNTY AGRICULTURAL
LAND PRESERVATION PROGRAM
EASEMENT HO-91-11-E



SCALE AS SHOWN
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SHEET # 3 OF 4

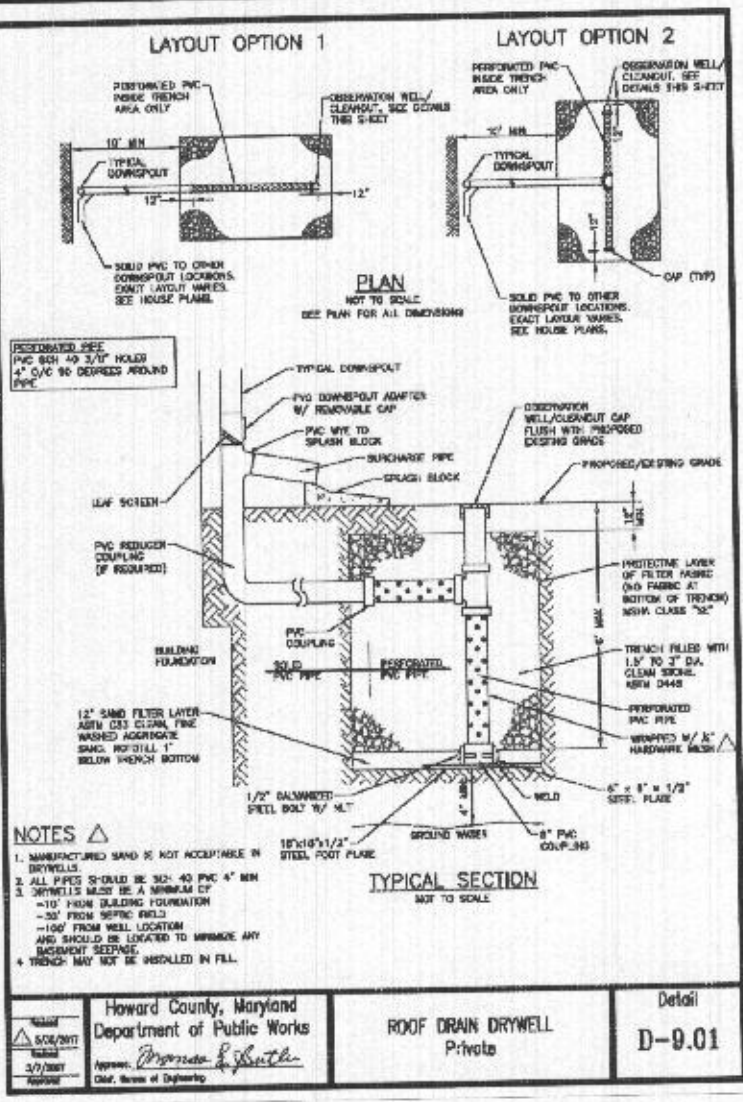
PLOT PLAN
MINGLEWOOD - LOT 3
14842 OLD FREDERICK ROAD
WOODBINE, MD 21797
PARCEL: 26
ZONED: RC-DEO
HOWARD COUNTY, MARYLAND

GRADING & SWM PLAN
SCALE: 1" = 60'
SCALE 1" = 60'
30' 0' 60'

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Minglewood Lot 3 R/V Book 10/15/20 1/2



Lot Area: 3,592 sq ft
 L.O.D.: 47,123 sq ft (13 soils)
 Impervious: 6,227 sq ft

$I = 6627/47,123 = 14\%$ $R_e = 1.0'$

$R_v = (0.05) \cdot (4) \cdot (0.009) = 0.18$

$ESD = (1.0)(0.18)(47,123)/12 = 707 \text{ cf}$

Drain Wells (100' impervious, $R_v = 0.95$)

$ESD = (1.0)(0.95)(6,227)/12$
 $ESD = 0.4 \text{ units} = \text{Scale } 0.0001$
 MAX ESD $(2.2)(0.95)(6,227)/12$

DW-1
 $A = 947 \text{ sq ft}$ $ESD = 75 \text{ cf}$ MAX ESD = 195 cf
 $* U = 165 \text{ cf}$
 $165/0.4 = 412$ $9.1 \times 9.1 = 80$

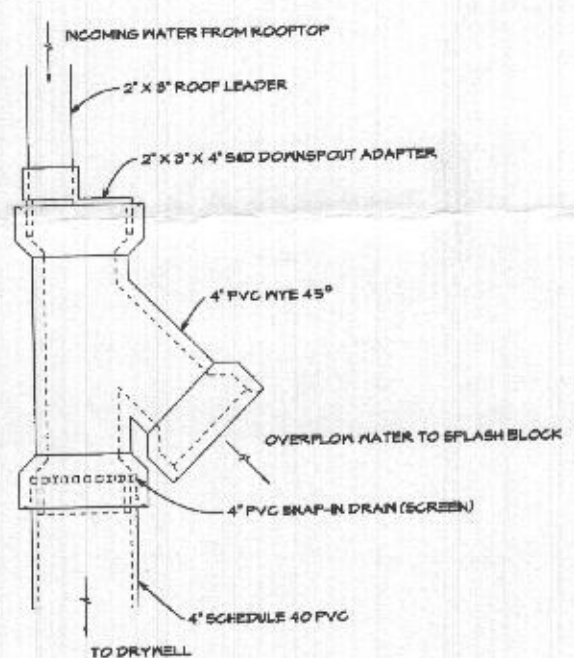
DW-2
 $A = 1000 \text{ sq ft}$ $ESD = 80 \text{ cf}$ MAX ESD = 207 cf
 $U = 175 \text{ cf}$
 $175/0.4 = 438$ $9.3 \times 9.3 = 80$

DW-3
 $A = 653 \text{ sq ft}$ $ESD = 52 \text{ cf}$ MAX ESD = 125 cf
 $U = 140 \text{ cf}$
 $140/0.4 = 350 \text{ cf}$ $8.4 \times 8.4 = 70$

DW-4
 $A = 966 \text{ sq ft}$ $ESD = 76 \text{ cf}$ MAX ESD = 195 cf
 $U = 180 \text{ cf}$
 $180/0.4 = 450$ $9.5 \times 9.5 = 90$

Gross Surface
 $DA = 0.36 \text{ ac}$ Gross 0.29 ac
 $Imp = 0.07 \text{ ac}$
 $C = 0.20$
 $Q = 0.18$ for 10 min Lior 6.4
 $Q_{10} = (0.36)(0.20)(6.4) = 0.77 \text{ cfs}$
 $Q_e = R_e \cdot R_v$ $R_v = 0.72$
 $* 1.0 \cdot 0.72 = 0.72$
 $Q_e = 0.92 \text{ cfs}$

FIGURE 3
STANDARD DRYWELL DOWNSPOUT FITTINGS



NOTES:

1. THE SNAP IN SCREEN IS REQUIRED TO PREVENT CLOGGING OF THE DRYWELL WITH DEBRIS.
2. SEE FIGURE 3B LIST OF POTENTIAL SUPPLIERS TO ACCOMPANY FIGURE 3 STANDARD DRYWELL DOWNSPOUT FITTINGS FOR INFORMATION ON SOME LOCAL RETAILERS THAT SUPPLY COMPONENTS FOR THIS SYSTEM.

Monte B. Covington II PE
 ORIGINALLY EFFECTIVE APRIL, 2008
 REVISED MARCH 18, 2009
 DISTRIBUTED AT C.C. SURVEYORS MFG.

Minglewood Lot 3 R/V Book 10/15/20 1/2

Gross Surface Area 5' x 10' 535 sq ft
 Slope: 2.5% 2.40% v

$Q_{10} = 0.77 \text{ cfs}$
 $Q_{10} = 2.58 \text{ cfs}$
 $Q_e = 0.92 \text{ cfs}$
 $Q_{e,10} = 0.02 \text{ cfs} \leq 1.0 \text{ cfs}$
 $Q_e = 0.62 \text{ cfs}$

depth of channel $0.5' + 0.9' = 0.4'$

$R_e = 1.0' \times \frac{535}{0.36} = 0.20'$

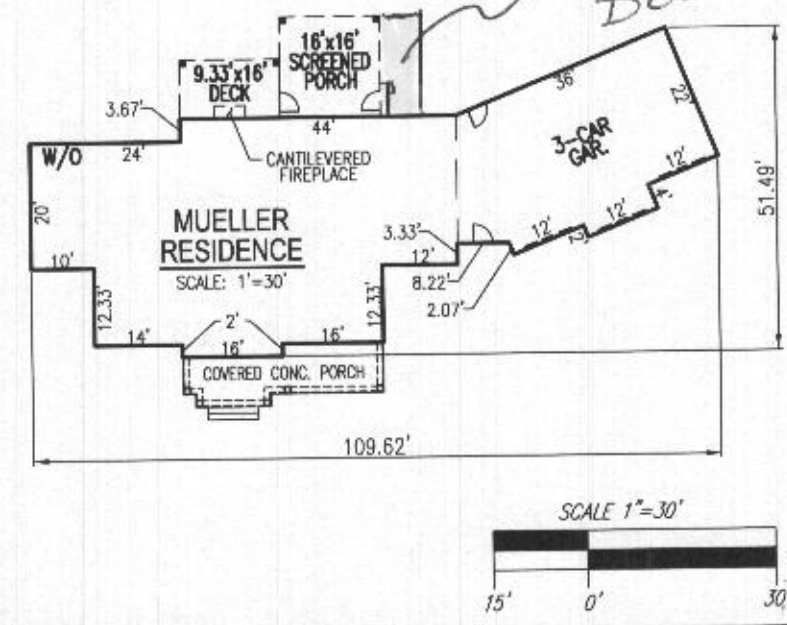
$ESD = (0.20)(0.36)(0.18)(535)/12 = 4 \text{ cf}$
 707 cf

OPERATION AND MAINTENANCE SCHEDULE FOR GRASS SWALE (M-8)

1. THE OPEN CHANNEL SYSTEM SHALL BE INSPECTED ANNUALLY AND AFTER MAJOR RAIN STORMS. INSPECTIONS SHALL BE PERFORMED DURING WET WEATHER TO DETERMINE IF THE FACILITY IS FUNCTIONING PROPERLY.
2. THE OPEN CHANNEL SHALL BE MOWED A MINIMUM OF AS NEEDED DURING THE GROWING SEASON TO MAINTAIN A MAXIMUM GRASS HEIGHT OF LESS THAN 6 INCHES.
3. DEBRIS AND LITTER SHALL BE REMOVED DURING REGULAR MOWING OPERATIONS AND AS NEEDED.
4. VISIBLE SIGNS OF EROSION IN THE OPEN CHANNEL SYSTEM SHALL BE REPAIRED AS SOON AS IT IS NOTICED.
5. REMOVE SILT IN THE OPEN CHANNEL SYSTEM WHEN IT EXCEEDS 25% OF THE ORIGINAL WQV.

OPERATION AND MAINTENANCE SCHEDULE FOR PRIVATELY OWNED AND MAINTAINED STORMWATER INFILTRATION TRENCHES (I-1) AND DRY WELLS (M-5)

1. THE OWNER SHALL INSPECT THE MONITORING WELLS AND STRUCTURES ON A QUARTERLY BASIS, AND AFTER EVERY LARGE STORM EVENT.
2. THE OWNER SHALL RECORD THE WATER LEVELS AND SEDIMENT BUILD UP IN THE MONITORING WELLS OVER A PERIOD OF SEVERAL DAYS TO INSURE TRENCH DRAINAGE.
3. THE OWNER SHALL MAINTAIN A LOG BOOK TO DETERMINE THE RATE AT WHICH THE FACILITY DRAINS.
4. WHEN THE FACILITY BECOMES CLOGGED, SO THAT IT DOES NOT DRAIN DOWN WITHIN A SEVENTY-TWO (72) HOUR TIME PERIOD, CORRECTIVE ACTION SHALL BE TAKEN.
5. THE MAINTENANCE LOGBOOK SHALL BE AVAILABLE TO HOWARD COUNTY FOR INSPECTION TO INSURE COMPLIANCE WITH OPERATION AND MAINTENANCE CRITERIA.
6. ONCE THE PERFORMANCE CHARACTERISTICS OF THE INFILTRATION FACILITY HAVE BEEN VERIFIED, THE MONITORING SCHEDULE CAN BE REDUCED TO AN ANNUAL BASIS, UNLESS THE PERFORMANCE DATA INDICATES THAT A MORE FREQUENT SCHEDULE IS REQUIRED.



SCALE AS SHOWN

DRAWN BY JMR

CHECKED BY RHV

DATE MARCH 12, 2021

W. O. # 2017145

SHEET# 4 OF 4

PLOT PLAN
MINGLEWOOD - LOT 3
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 WOODBINE, MD 21797

PARCEL: 26
 ZONED: RC-DEO
 HOWARD COUNTY, MARYLAND