

PLANNING & ZONING COMMISSION

ROBERT C. WHEATLEY, CHAIRMAN
KIM HOEY STEVENSON, VICE-CHAIRMAN
R. KELLER HOPKINS
J. BRUCE MEARS
HOLLY J. WINGATE



Sussex County

DELAWARE
sussexcountyde.gov
302-855-7878 T
302-854-5079 F
JAMIE WHITEHOUSE, AICP
DIRECTOR

PLANNING AND ZONING AND COUNTY COUNCIL INFORMATION SHEET
Planning Commission Public Hearing Date September 9th, 2021

Application: Lands of Evans E. Norwood (2021-03)

Applicant: Evans E. Norwood
21604 Macintosh Way
Milton, DE 19968

Owner: Evans E. Norwood
21604 Macintosh Way
Milton, DE 19968

Site Location: Lying on the south side of Stockley Road (S.C.R 280) approximately
.58 mile west of Beaver Dam Road (Route 23)

Current Zoning: Agricultural Residential (AR-1) Zoning District

Proposed Use: 3 Single Family Lot as a Standard Subdivision

Comprehensive Land
Use Plan Reference: Low Density

Councilmanic
District: Mr. Schaeffer

School District: Cape Henlopen School District

Fire District: Lewes Fire Company

Sewer: On-Site Septic

Water: Private Well

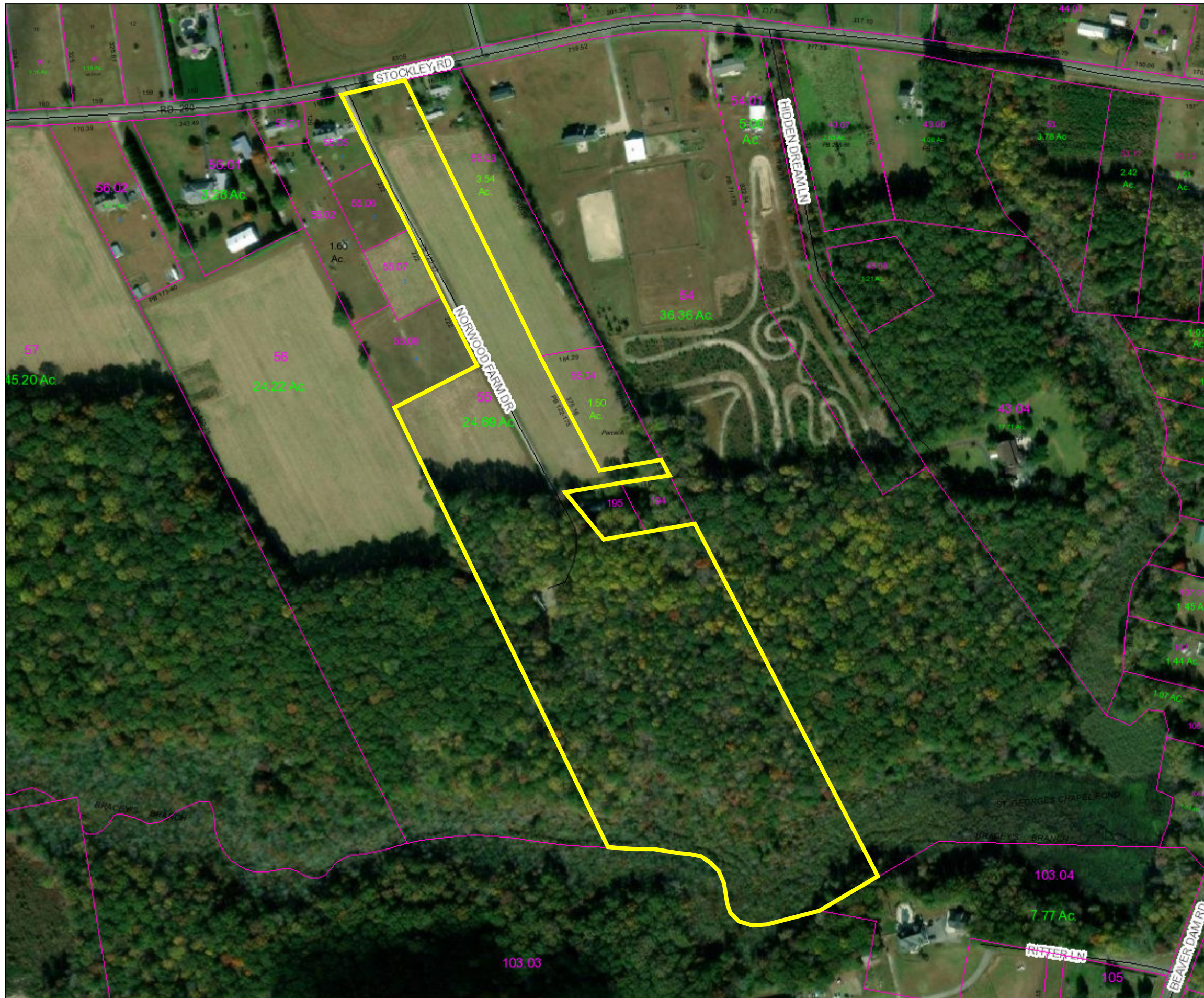
Site Area: 24.9 +/- acres

Tax Map ID.: 234-5.00-55.00





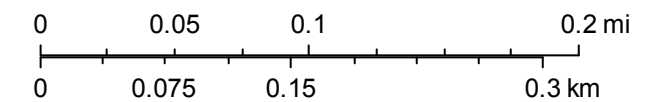
Sussex County



PIN:	234-5.00-55.00
Owner Name	NORWOOD EVANS E
Book	3274
Mailing Address	23144 HOLLYVILLE RD
City	HARBESON
State	DE
Description	S/RT 280
Description 2	3072'W/RT 285
Description 3	RESIDUAL LANDS
Land Code	

- polygonLayer**
- Override 1
- polygonLayer**
- Override 1
- ⋯ Tax Parcels
- Streets
- ⋯ County Boundaries
- ⋯ Municipal Boundaries

1:4,514





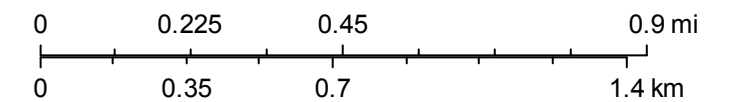
Sussex County



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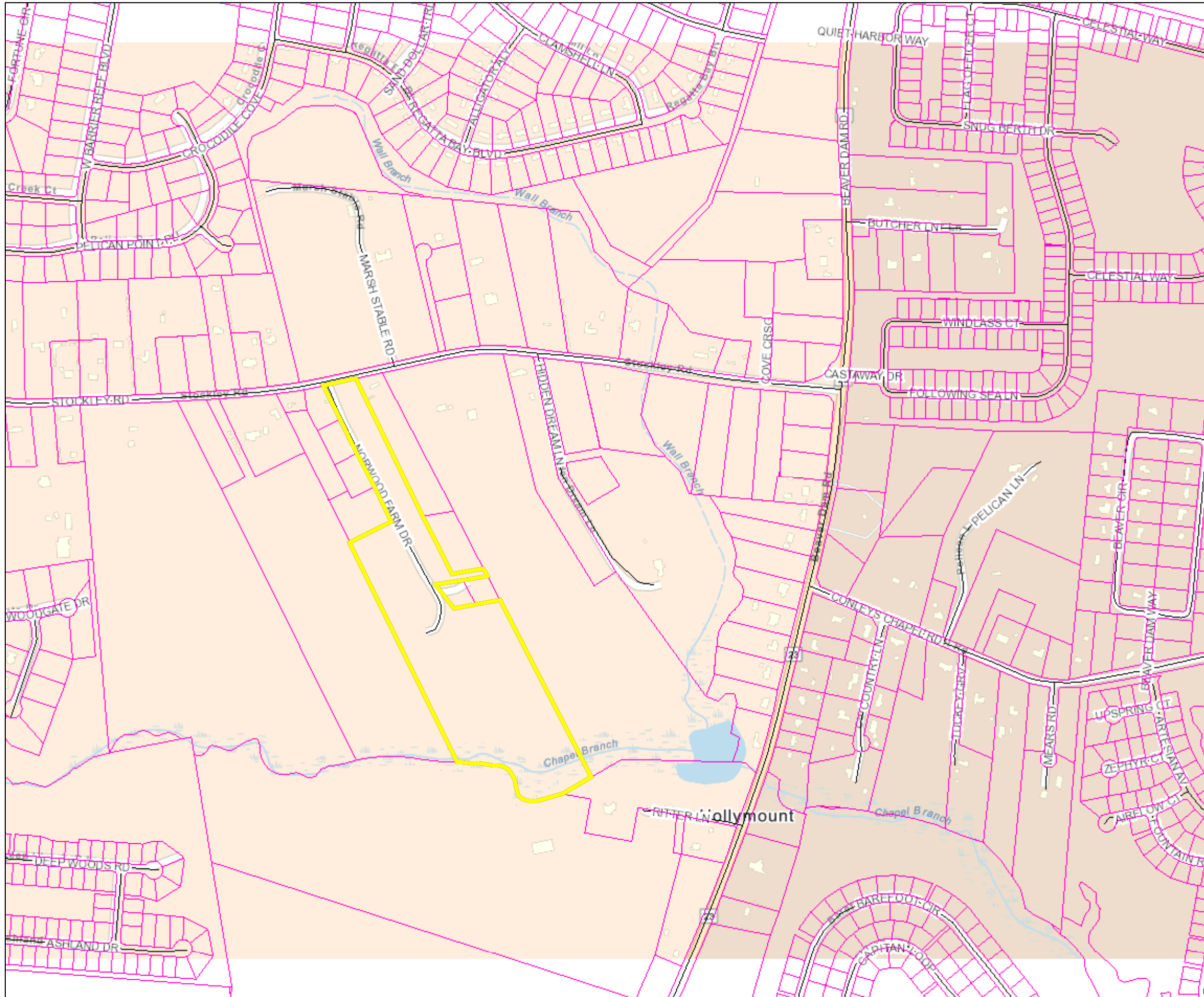
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- polygonLayer**
- Override 1
- Tax Parcels
- Streets

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Sussex County



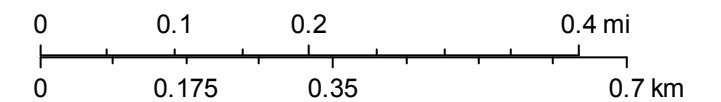
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- polygonLayer**

 - Override 1
 - Tax Parcels
 - Streets
 - County Boundaries
 - Municipal Boundaries

1:9,028



File #: 2021-03
202015846

Sussex County Major Subdivision Application Sussex County, Delaware

Sussex County Planning & Zoning Department
2 The Circle (P.O. Box 417) Georgetown, DE 19947
302-855-7878 ph. 302-854-5079 fax

Type of Application: (please check applicable)

Standard:

Cluster:

ESDDOZ:

Location of Subdivision:

21604 Macintosh Way Milton, De. 19968

Proposed Name of Subdivision:

Macintosh Way

Tax Map #: 234-5.00-55.00 Total Acreage: 24.9

• Zoning: AR-1 Density: _____ Minimum Lot Size: _____ Number of Lots: 3

Open Space Acres: _____

Water Provider: Well Sewer Provider: On Site Septic System

Applicant Information

Applicant Name: Evans E. Norwood
Applicant Address: 21604 Macintosh Way
City: Milton State: De Zip Code: 19968
Phone #: 302-381-9757 E-mail: None

Owner Information

Owner Name: Evans E. Norwood
Owner Address: 21604 Macintosh Way
City: Milton State: De Zip Code: 19968
Phone #: 302-381-9757 E-mail: _____

Agent/Attorney/Engineer Information

Agent/Attorney/Engineer Name: NONE
Agent/Attorney/Engineer Address: _____
City: _____ State: _____ Zip Code: _____
Phone #: _____ E-mail: _____



Check List for Sussex County Major Subdivision Applications

The following shall be submitted with the application

Completed Application

Provide fifteen (15) copies of the Site Plan or Survey of the property and a PDF (via e-mail)

Already
Received

- Plan shall show the existing conditions, setbacks, roads, floodplain, wetlands, topography, proposed lots, landscape plan, etc. Per Subdivision Code 99-22, 99-23 & 99-24
- Provide compliance with Section 99-9.
- Deed or Legal description, copy of proposed deed restrictions, soil feasibility study

Provide Fee \$500.00

Optional - Additional information for the Commission to consider (ex. photos, exhibit books, etc.) If provided submit seven (7) copies and they shall be submitted a minimum of ten (10) days prior to the Planning Commission meeting.

Please be aware that Public Notice will be sent to property owners within 200 feet of the subject site and County staff will come out to the subject site, take photos and place a sign on the site stating the date and time of the Public Hearings for the application.

PLUS Response Letter (if required)

N/A 51% of property owners consent if applicable

The undersigned hereby certifies that the forms, exhibits, and statements contained in any papers or plans submitted as a part of this application are true and correct.

I also certify that I or an agent on my behalf shall attend all public hearing before the Planning and Zoning Commission and any other hearing necessary for this application and that I will answer any questions to the best of my ability to respond to the present and future needs, the health, safety, morals, convenience, order, prosperity, and general welfare of the inhabitants of Sussex County, Delaware.

Signature of Applicant/Agent/Attorney

Evans E. Newwood

Date: 7-16-20

Signature of Owner

Evans E. Newwood

Date: 7-16-20

For office use only:

Date Submitted: _____

Fee: \$500.00 Check #: 4293

Staff accepting application: _____

Application & Case #: _____

Location of property: _____

Date of PC Hearing: _____

Recommendation of PC Commission: _____

**SUSSEX COUNTY ENGINEERING DEPARTMENT
UTILITY PLANNING & DESIGN REVIEW DIVISION
C/U & C/Z COMMENTS**

TO: **Jamie Whitehouse**

REVIEWER: **Chris Calio**

DATE: **8/23/2021**

APPLICATION: **Lands of Evans E. Norwood (2021-03)**

APPLICANT: **Evans E. Norwood**

FILE NO: **NCPA-5.03**

TAX MAP &
PARCEL(S): **234-5.00-55.00**

LOCATION: **Lying on the south side of Stockley Road (SCR 280),
approximately .58 mile west of Beaver Dam Road (Rt. 23).**

NO. OF UNITS: **3 single-family lots**

GROSS
ACREAGE: **24.9 +/-**


SYSTEM DESIGN ASSUMPTION, MAXIMUM NO. OF UNITS/ACRE: **2**

SEWER:

- (1). Is the project in a County operated and maintained sanitary sewer and/or water district?
Yes No
- a. If yes, see question (2).
b. If no, see question (7).
- (2). Which County Tier Area is project in? **Tier 3**
- (3). Is wastewater capacity available for the project? **N/A** If not, what capacity is available? **N/A**.
- (4). Is a Construction Agreement required? **No** If yes, contact Utility Engineering at (302) 855-7717.
- (5). Are there any System Connection Charge (SCC) credits for the project? **No** If yes, how many? **N/A**. Is it likely that additional SCCs will be required? **N/A** If yes, the current System Connection Charge Rate is **Unified \$6,600.00** per EDU. Please contact **N/A** at **302-855-7719** for additional information on charges.

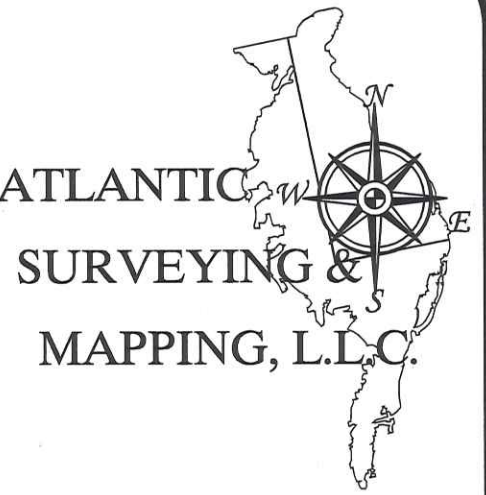
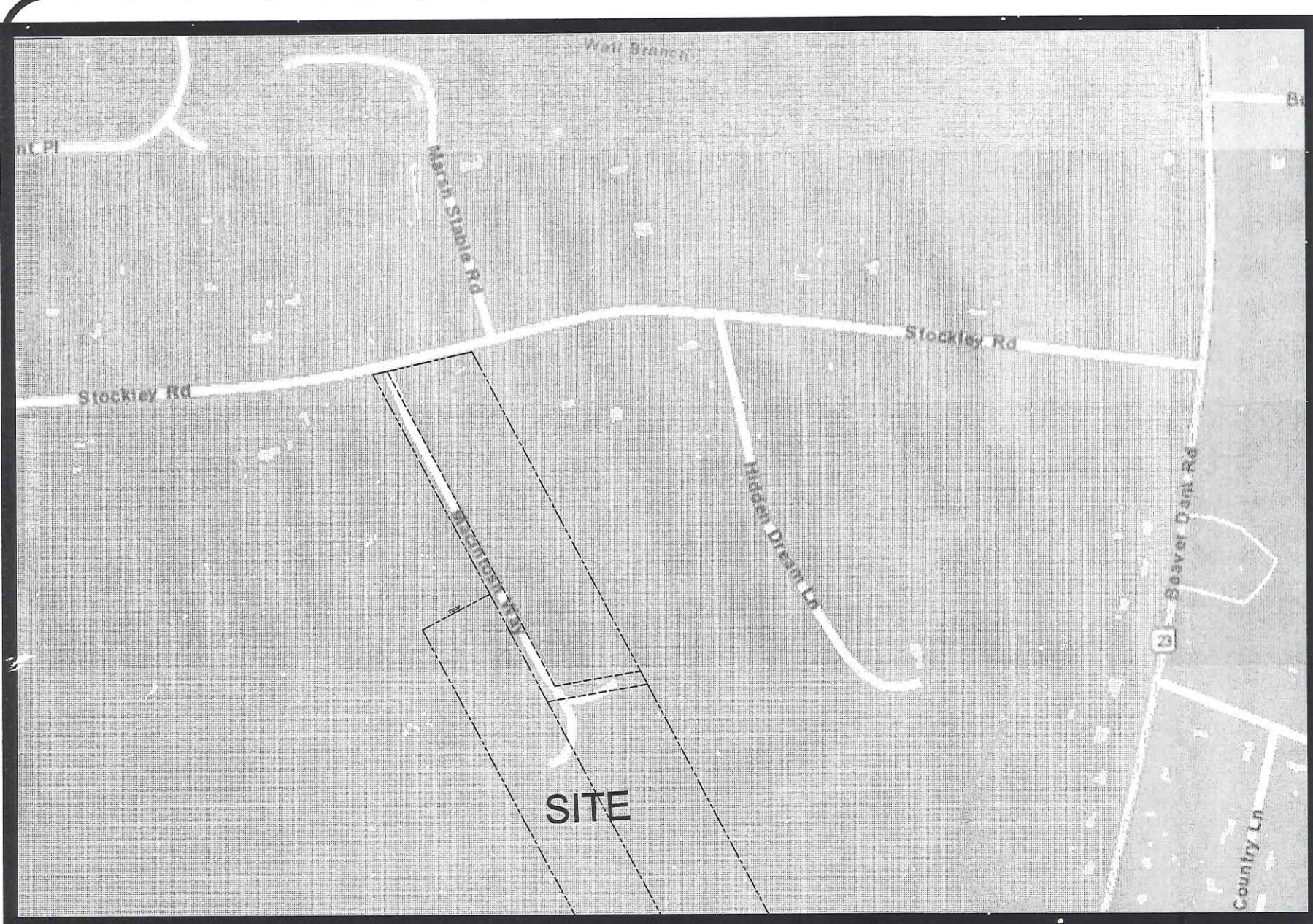
- (6). Is the project capable of being annexed into a Sussex County sanitary sewer district? **No**
- Attached is a copy of the Policy for Extending District Boundaries in a Sussex County Water and/or Sanitary Sewer District.
- (7). Is project adjacent to the Unified Sewer District? **No**
- (8). Comments: **The proposed subdivision of land is not in an area where the Sussex County Engineering Department has a schedule to provide sanitary sewer service.**
- (9). Is a Sewer System Concept Evaluation required? **Not at this time**
- (10). Is a Use of Existing Infrastructure Agreement Required? **Not at this time**
- (11). **All residential roads must meet or exceed Sussex County minimum design standards.**

UTILITY PLANNING & DESIGN REVIEW APPROVAL:



John J. Ashman
Sr. Manager of Utility Planning & Design Review

Xc: Hans M. Medlarz, P.E.
Lisa Walls
No Permit Tech Assigned



P.O. BOX 247
HARBESON, DE 19951
PH. 302-684-2924

professional seal

Project:
Sketch Plan
Lands of Evans E. Norwood
Tax Map 234-5.00-55.00
Indian River Hundred, Sussex County, Delaware

Project:

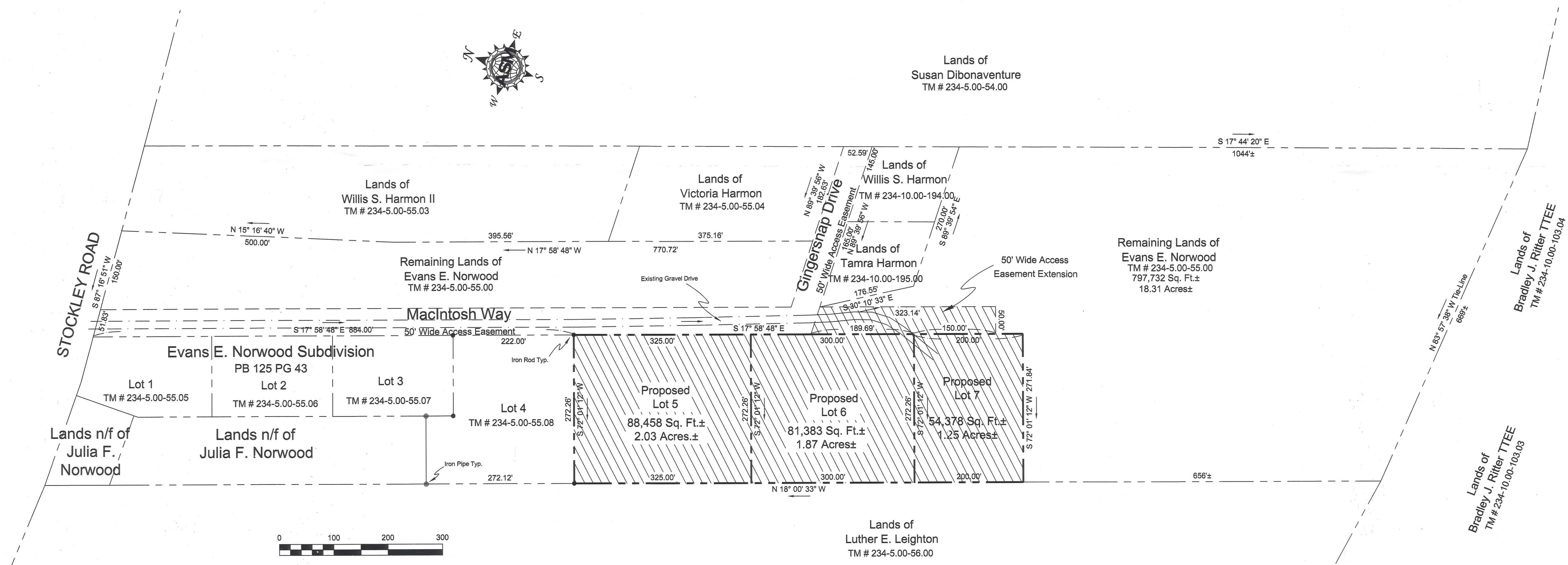
Revisions

Surveyed By: V. Walch
Prepared By: H. Johnson
Checked By: M. Jones
Job #: 141007

Date: June 2020

Scale: As Shown

Sheet 1 of 1



Notes

Owner/Applicant:
Evans E. Norwood
23144 Hollyville Road
Harbeson, DE 19951
Phone (302) 381-9757

The purpose of this plan is to create three new parcels and extend 50' wide access easement.

Tax Map Parcel 234-5.00-55.00

Present Use: All Parcels: Agriculture

Proposed Use, Lots 5, 6 & 7: Residential, "Residual Lands": Agricultural

Proposed Lot 5 to contain 2.03 acres±, Lot 6 to contain 1.87 acres±, Lot 7 to contain 1.25 acres± and the Residual Lands to contain 18.3 acres± (not surveyed).

Site Evaluation
Reference #:
565511

Site Evaluation Approval

RECEIVED
06/23/2021
GROUNDWATER

The soils on this site are approved when the following is completed in full and is signed by the approving authority. This is not a septic permit but is required to obtain a septic permit. A septic permit is required to obtain a building or placement permit. Isolation requirements from wells, easements, ditches, and other encumbrances may limit the area that is available for a septic permit. It is the responsibility of the designer to verify the information provided by this approval prior to obtaining a septic permit. The information provided here is obtained primarily by field observations and is believed to be accurate under the conditions that existed at the time of the evaluation. Compaction of soils from lot clearing, grading activities, and filling activities may negate this approval or modify the type of system that can be permitted and installed. Lots that are wooded at the time the evaluation are to be inspected prior to septic system installation at the discretion of the installer.

Owner's Name: Norwood, Evans E.
Owner's Address: 23144 Hollyville Road
Harbeson, DE 19951

Parcel Number: 234-5.00-55.00
Proposed Lot 6
Job Number: 14029

Initial Disposal System and Location: Capping Fill Low Pressure Pipe (LPP) treatment and disposal system with Advanced Pre-treatment meeting PSN 3 Nitrogen Removing Pollution Control Strategy Regulations in the immediate vicinity of Soil Borings 6-1, 6-2, and 6-3 provided that setback requirements under DNREC Exhibit C are met. The area in the vicinity of Soil Boring 6-3 is very limited in size.

Depth to Limiting Zone: 27 inches for design purposes based on observed redoximorphic features.

Design Considerations and Comments:

1. See Site Evaluation Report and Drawing.
2. See Exhibits O & P in the Delaware Regulations, amended January 11, 2014 (2014 Regulations) for criteria on LPP systems.
3. This evaluated property is within the Inland Bays Watershed as defined by DNREC Pollution Control Strategy Regulations and nitrogen removing technologies meeting PSN3 standards are required.
4. See Exhibit C, Minimum Isolation Distances in the 2014 Regulations. All isolation distances specified in Exhibit C must be maintained e.g., 100-foot isolation distance between system and domestic water supply wells.
5. The wastewater disposal area should be clearly marked e.g., by surrounding it with construction fence and the area should be avoided as much as is feasible during construction to avoid disturbance/soil compaction. The Department of Natural Resources and Environmental Control (DNREC) has formulated guidance for clearing/soil compaction avoidance; contact DNREC at 302-739-9947 for guidance.

Replacement Disposal System and Location: Same as initial system if space permits or sand-lined upgrade.

Limitations of Soil Evaluation for System Design/Emplacement: The soil evaluation was performed to evaluate soil conditions with respect to a wastewater disposal system for a single family residence. For alternative uses contact the site evaluator or DNREC to determine whether additional site evaluation services are necessary.

Instructions to Property Owner

1. Contact a Class C Designer.
2. A permeability rate of **75 minutes per inch** has been estimated for the soil on your site based on soil textures and tables published by DNREC. You may use the estimated rate or, at your expense, have a percolation test conducted by a Class A Percolation Tester. Contact Delmarva Environmental, Inc. and DNREC if you choose to conduct a percolation test.
3. For questions call Delmarva Environmental, Inc. at (302) 732-9858 or DNREC at (302) 739-9947

This report has been prepared by:

[Signature] 6/23/21
Ian R. Kaufman, Certified Professional Soil Scientist

Delaware License Number 2175

Delmarva Environmental, Inc. has conducted this site evaluation in accordance with DNREC Regulations and Policies with the best of its ability and with the information provided by the owner and under the conditions that existed at the time of the evaluation. Delmarva Environmental, Inc. is only liable for this evaluation to the extent of the cost of this evaluation.

For Office Use Only

DNREC APPROVED

IF THERE ARE QUESTIONS
REGARDING THIS REPORT
CONTACT CLASS D LICENSEE

6/24/21

THE CLASS D LICENSEE
IS RESPONSIBLE FOR
ERRORS/OMISSIONS

6/24/26

DNREC Reviewing Soil Scientist-Approving Authority

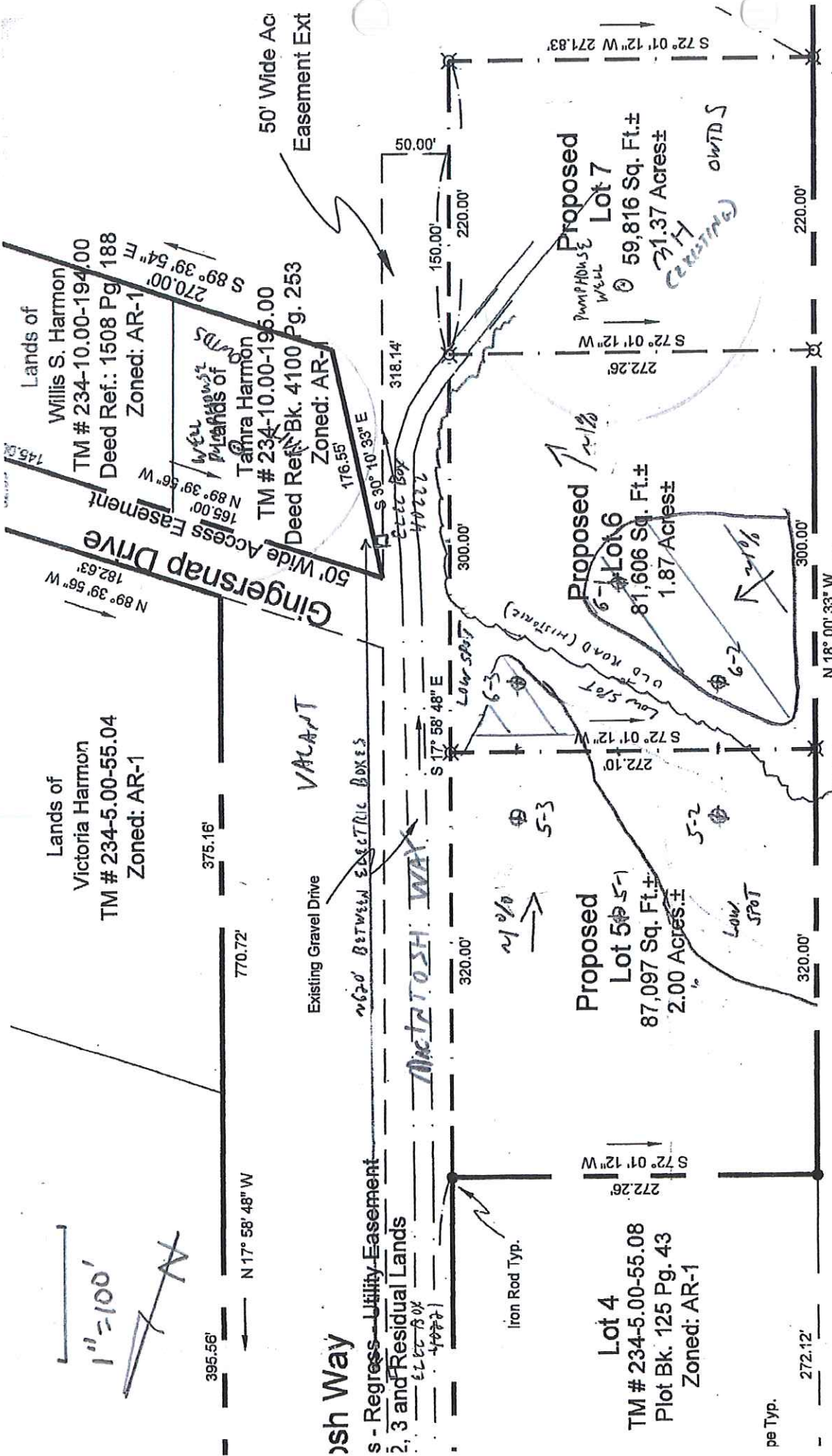
Date

Date Field Checked

Expiration Date

DNREC Disclaimer: Approval of a site evaluation indicates only that the site evaluation, based on information presented to us, was conducted in compliance with these Regulations. It is not an indication of the correctness or quality of the site evaluation and does not guarantee the evaluation is free of omissions or that a permit can be issued.

PAID
\$ 75.00 06/23/2021



JUNE 2021
 JOB # 17029

VACANT
 SITE EVALUATION DRAWING
 NORWOOD
 LOT 6
 PART OF 234-500-55.00

Note:
 Lots 1-4 currently
 owned by Evans Norwood.

Handwritten signature
 6/22/21


SOIL PROFILE NOTES

Profile #: SOIL BORING 6-2 Job Number: 17029
 Date of Observation: 6/17/2021
 Tax ID Number: 234-500-5300
 Project Name: NORWOOD
 Location: PROPOSED LOT 6
 Slope: 0-1%
 Relief: SLIGHT BACKSLOPE
 Depth to Redoximorphic Features or other potential limiting factor: ~27"
 Estimated Permeability based on field estimates of soil textures: ~45 MPI
 Free water at time of observation: >60"
 Soil Classification: AQUIC HAPLUDULT
 GPS Coordinates: N 38.68850 °, W 75.22528 °

Horizon	Depth (inches)		Moist Munsell Colors			RMF or Non-RMF Colors; Quantity/Size/Contrast	Field Estimated Soil Texture	Structure Grade/Size/Type	Consistence (moist)
			Matrix	Redoximorphic Features (RMF)	Non-RMF & Mottles				
A	0	6	10YR4/2	—	—	—	LS	1M GR	VFR
A/E	6	27	10YR4/2 10YR6/4	—	—	—	LS+SL	0 MA	VFR +FR
Bt	27	42	10YR6/4	10YR7/1 10YR6/8	—	C 2 D C 2 D	SL+	2M SBK	FR
C	42	60	10YR7/4	10YR7/1 10YR6/8	—	C 2 D C 2 D	SL/S	0 MA	VFR/FR

Nomenclature and abbreviations are adapted from the Field Book for Describing and Sampling Soils; Version 3.0 (NRCS, 2012)

Comments: WOODS

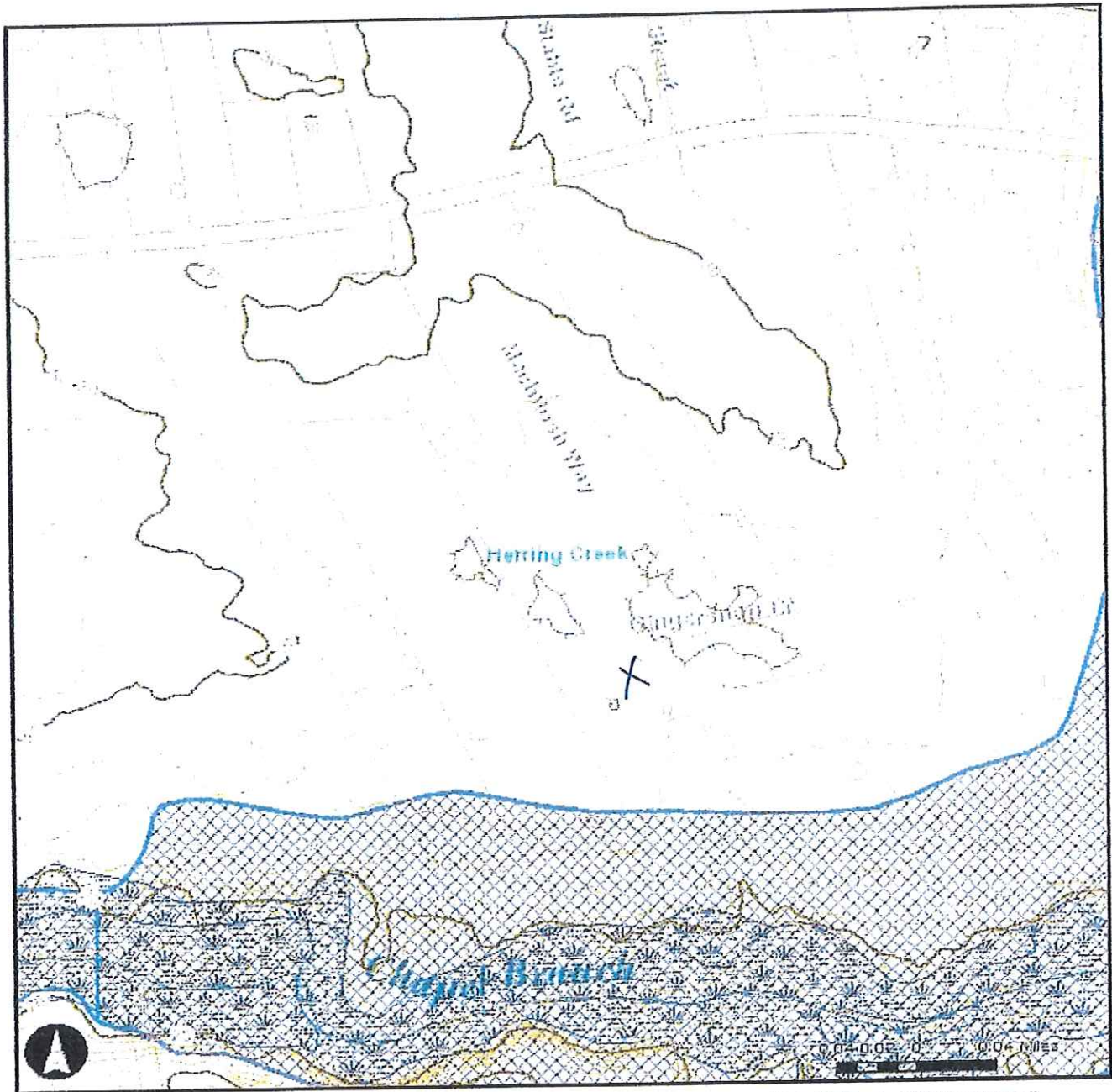

 Ian R. Kaufman, CPSS/SC (ARCPACS #03237)
 Delaware Class B & D License (#2175)
 Virginia LAOSE (#1940001206)

Certified Professional Soil Scientist/Soil Classifier
 Ian R. Kaufman
 irkaufman@mediacombb.net

PO Box 117
 Dagsboro, DE 19939

Office (302) 732-9858
 Mobile (302) 542-3356

234-5.00-55.00



Watersheds

- INDEX-DEPRESSION
- INTER-DEPRESSION
- Tax Ditch Maximum ROWs
- Extent of Right-of-Way
- FEMA Flood Maps
 - X 500
 - A

State Wetlands 2007

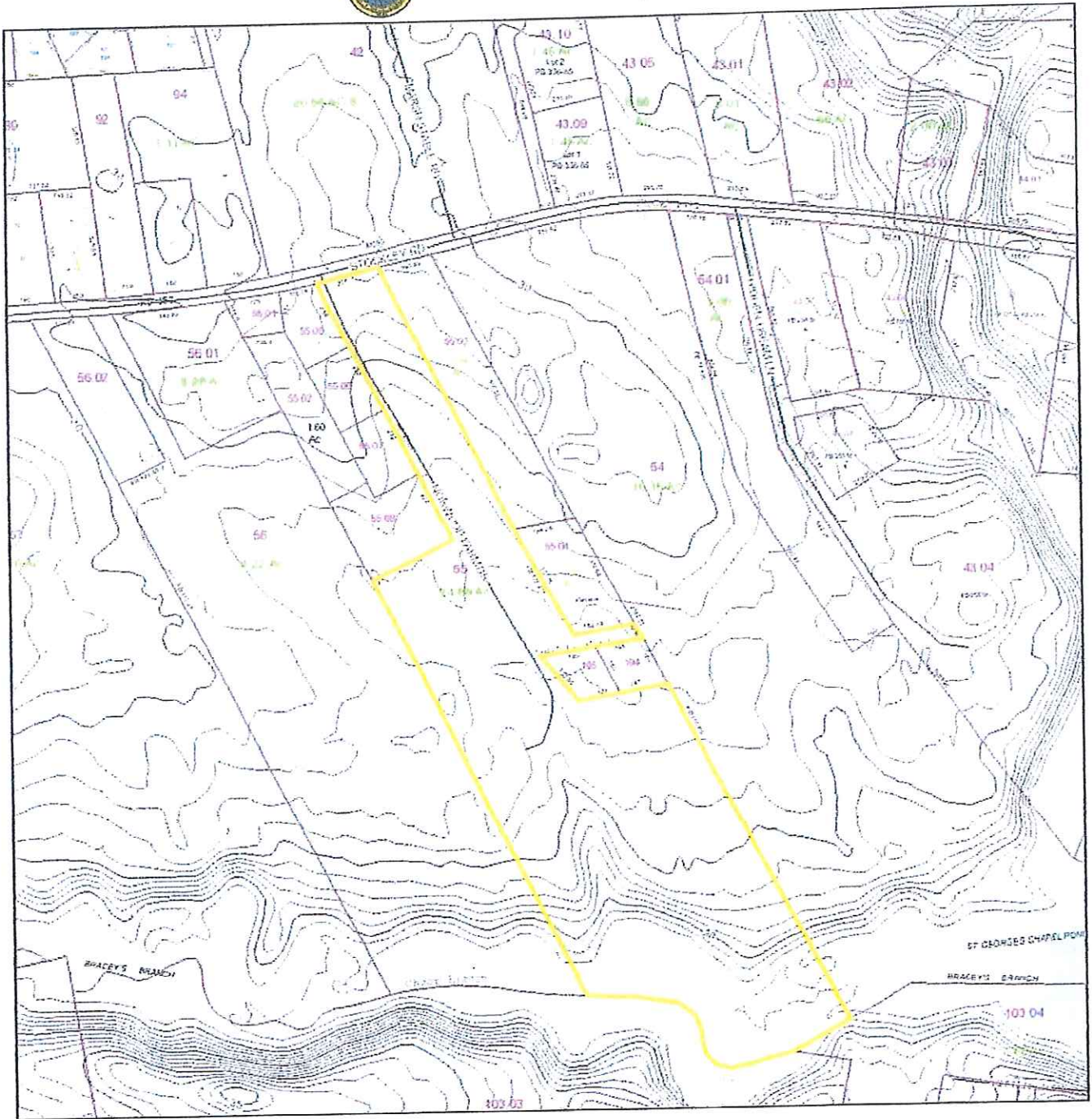
- Agriculture
- Estuarine Non-Vegetated
- Estuarine Vegetated
- Lacustrine
- Marine Non-vegetated
- Palustrine Emergent
- Palustrine Forested
- Palustrine Forested Deciduous
- Palustrine Forested Evergreen
- Palustrine Open Water/ Flats
- Palustrine Open Water/Flats

State Wetlands 2007 (continued)

- Palustrine Scrub/Shrub
- Palustrine Scrub/shrub
- Palustrine Tidal Emergent
- Palustrine Tidal Forested
- Palustrine Tidal Forested
- Palustrine Tidal Scrub/Shrub
- Riverine Non-vegetated
- Riverine Vegetated

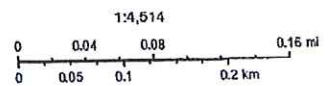


Sussex County



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City	HARBESON
State	DE
Description	S/RT 280
Description 2	3072'W/RT 285
Description 3	RESIDUAL LANDS
Land Code	

- polygonLayer**
- Override 1
- Normal Index**
- Normal Intermediate**
- polygonLayer**
- Override 1
- ::: Tax Parcels
- Streets
- ::: County Boundaries
- Sussex_Co**
- ... Depression Index
- Depression Intermediate



Site Evaluation
Reference #:
565510

Site Evaluation Approval

RECEIVED
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Owner's Name: Norwood, Evans E.
Owner's Address: 23144 Hollyville Road
Harbeson, DE 19951

Parcel Number: 234-5.00-55.00
Proposed Lot 5
Job Number: 14029

Initial Disposal System and Location: Capping Fill Low Pressure Pipe (LPP) treatment and disposal system with Advanced Pre-treatment meeting PSN 3 Nitrogen Removing Pollution Control Strategy Regulations in the immediate vicinity of Soil Borings 5-1 and 5-3 provided that setback requirements under DNREC Exhibit C are met.
Depth to Limiting Zone: 30 inches for design purposes based on observed redoximorphic features.

Design Considerations and Comments:

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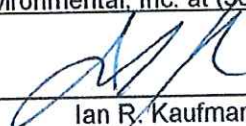
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1. Contact a Class C Designer.
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3. For questions call Delmarva Environmental, Inc. at (302) 732-9858 or DNREC at (302) 739-9947

This report has been prepared by:

 6/23/21
Ian R. Kaufman, Certified Professional Soil Scientist
Delaware License Number 2175

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IF THERE ARE QUESTIONS
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CONTACT CLASS D LICENSEE

6/24/21

THE CLASS D LICENSEE
IS RESPONSIBLE FOR
ERRORS/OMISSIONS

Date Field Checked

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Expiration Date

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PAID
\$ 75.00 06/23/2021

SOIL PROFILE NOTES

Profile #: Soil Boring 5-2 Job Number: 14029
 Date of Observation: 6/17/2021
 Tax ID Number: 234-5.00-55.00
 Project Name: NORWOOD
 Location: PROPOSED LOT 5
 Slope: ~1%
 Relief: LOWER BACKSLOPE
 Depth to Redoximorphic Features or other potential limiting factor: ~20"
 Estimated Permeability based on field estimates of soil textures: ~75 MPI
 Free water at time of observation: ~48"
 Soil Classification: ADHIC PALISADULT
 GPS Coordinates: N 38.68877 ° , W 75.22540 °

Horizon	Depth (inches)		Moist Munsell Colors			RMF or Non-RMF Colors; Quantity/Size/Contrast	Field Estimated Soil Texture	Structure Grade/Size/Type	Consistence (moist)
			Matrix	Redoximorphic Features (RMF)	Non-RMF & Mottles				
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Bt ₁	10	20	10YR6/4	-	-	-	SL	1MSBK	FR
Bt ₂	20	48	10YR6/6 10YR7/4	10YR7/2 10YR6/8	-	C 2 D C 2 D	SL+LS	1MSBK	FR+VFR
2Bt ₃	48	60	10YR7/1	10YR6/8	-	C 2 P	CL	1MSBK	FI

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Comments:



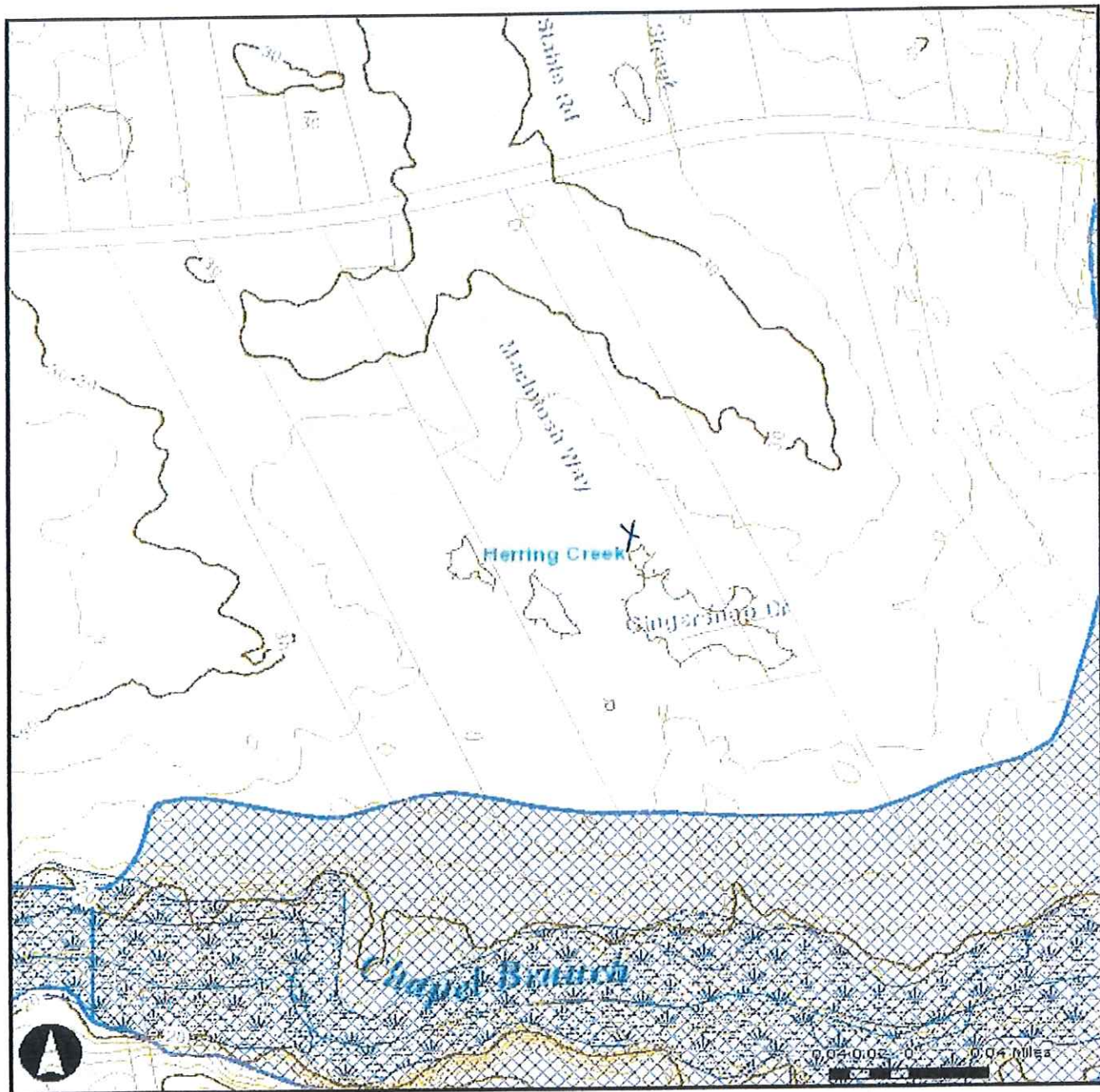
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234-5.00-55.00



Watersheds

- Sussex
- Elevation Sussex
- INDEX
- INDEX-DEPRESSION
- INTER
- INTER-DEPRESSION
- Tax Ditch Maximum ROWs
- Extent of Right-of-Way
- FEMA Flood Maps
- X 500
- A

State Wetlands 2007

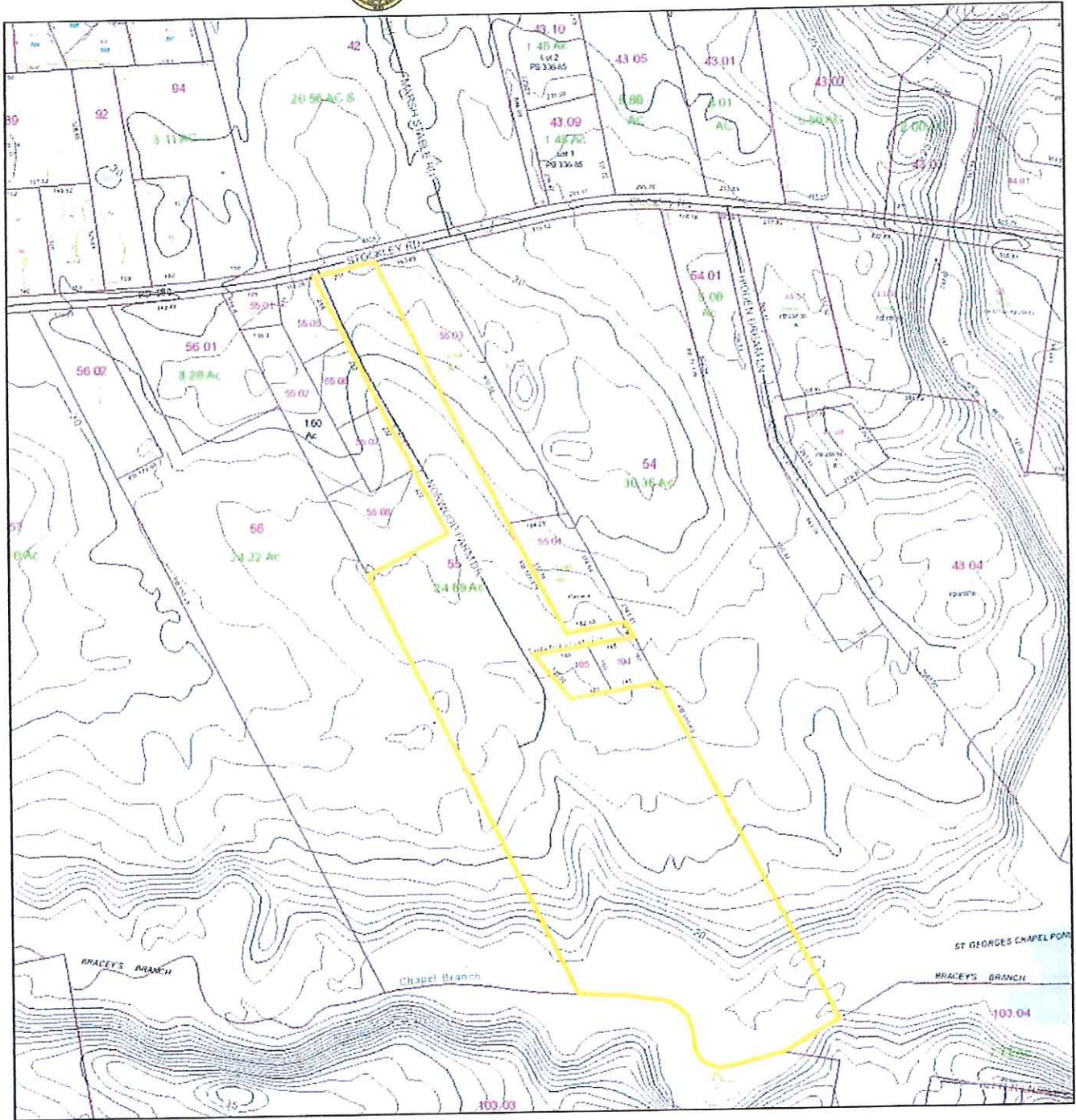
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State Wetlands 2007 (continued)

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- Palustrine Tidal Forested
- Palustrine Tidal Scrub/Shrub
- Riverine Non-vegetated
- Riverine Vegetated

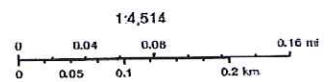


Sussex County



PIN	234-5.00-55.00
Owner Name	NORWOOD EVANS E
Book	3274
Mailing Address	23144 HOLLYVILLE RD
City	HARBESON
State	DE
Description	S/RT 280
Description 2	3072*W/RT 285
Description 3	RESIDUAL LANDS
Land Code	

- polygonLayer**
 - Normal Index
 - Normal Intermediate
- Override 1**
 - Normal Intermediate
- polygonLayer**
 - Tax Parcels
 - Streets
 - County Boundaries
- Sussex_Co**
 - ... Depression Index
 - Depression Intermediate



PRE-CONSTRUCTION AS BUILT

SITE PLAN & CROSS SECTION

RECEIVED

JAN 22 2016

SCALE: 1" = 40'

PERMIT # 227107

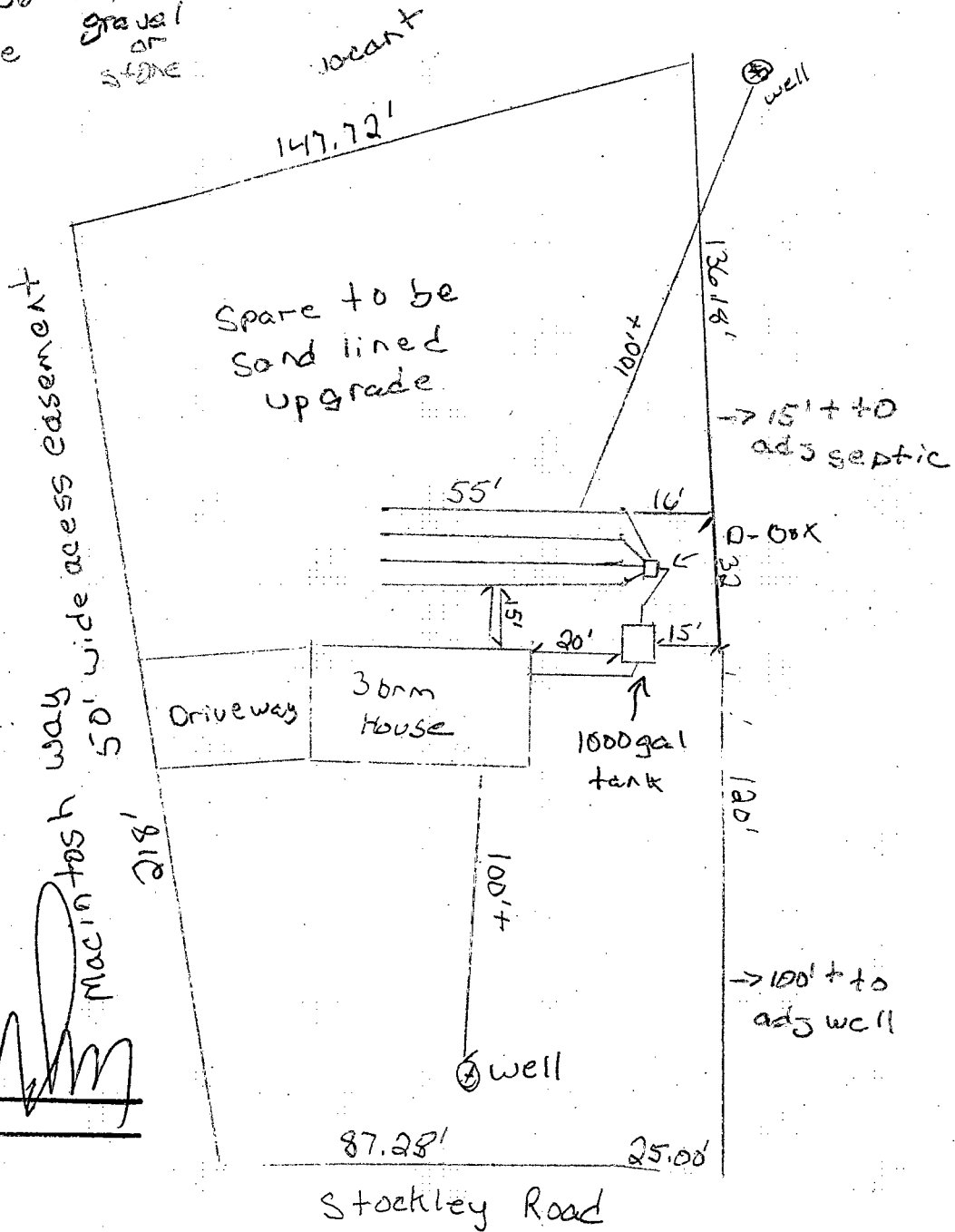
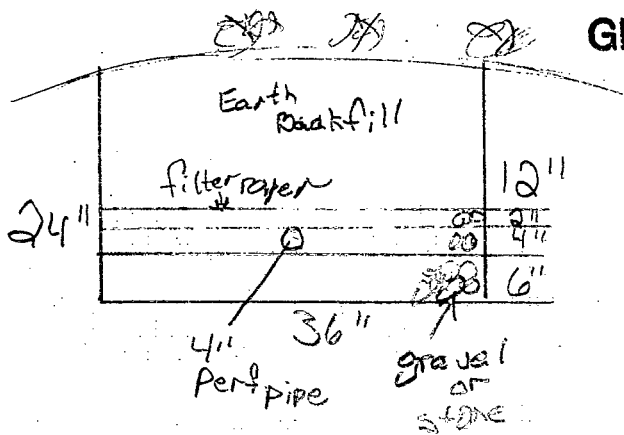
TAX MAP# 2-34-05.00-0055.05

DATE: 1-22-16

LICENSEE # 2278

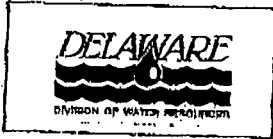
LICENSEE SIGNATURE *Clyde D. Kelly*

GROUNDWATER



As-Built
DNREC Approved
By: *[Signature]*
Date: 1-26-16

Evans

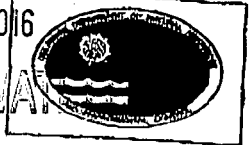


ON-SITE WASTEWATER SYSTEM CONSTRUCTION REPORT

RECEIVED

FEB 09 2016

GROUNDWATER



(Please Type or Print Legibly)

PERMIT #: 227107

TAX MAP #: 2-34-05.00-0055.05

INSTALLER'S NAME: Eric Quigley LICENSE #: 2278 PHONE #: 228-0985

CONSTRUCTION START DATE: 1-26-16 AUTHORIZATION #: 3629 COMPLETION DATE: 2-1-16

THIS FORM MUST BE SUBMITTED WITHIN 10 DAYS OF COMPLETION

(Please check all boxes that apply)

CF = Cap & Fill / FD = Full Depth

Type of Construction:

- Replacement
New Construction
Component Replacement
Repair to Existing System

System Type:

- Low Pressure Pipe (FD)
Elevated Sand Mound
Pressure Dose (FD)
Holding Tank
Gravity (FD)
Std. Pressure Dose (FD)
Std. Pressure Dose (CF)

- Low Pressure Pipe (CF)
Wisconsin At-Grade
Pressure Dose (CF)
Subsurface Micro Irrigation
Gravity (CF)
Other

Bed or Trench
Gravelless Chamber or Stone/Gravel Existing System Malfunctioning
Sand-lined Yes No

Pre-Treatment Units

- Bio-Clear
Septic Tank
Other
Klargester
Recirculating Sand Filter

-AS-BUILT CONSTRUCTION CHANGES-

(Please describe any changes different from approved permit) ANY LOCATION CHANGE MUST BE MARKED (USE RED INK) ON COPY OF ORIGINAL PERMIT (PLEASE ATTACH)

No Changes Per As-Built

I hereby affirm that the sewage disposal system for permit number 227107 was constructed in accordance with all requirements and conditions of the permit. I further certify that if I made any changes that the copy of the original permit (with red markings) is an accurate representation of the installation.

Certificate of Satisfactory Completion

Approved By [Signature] Date 03-23-16

Date 2-9-16

[Signature] Contractor's Signature

AS-BUILT CONSTRUCTION AS BUILT

SITE PLAN & CROSS SECTION

RECEIVED

JAN 22 2016

GROUNDWATER

SCALE: 1" = 40'

PERMIT # 227107

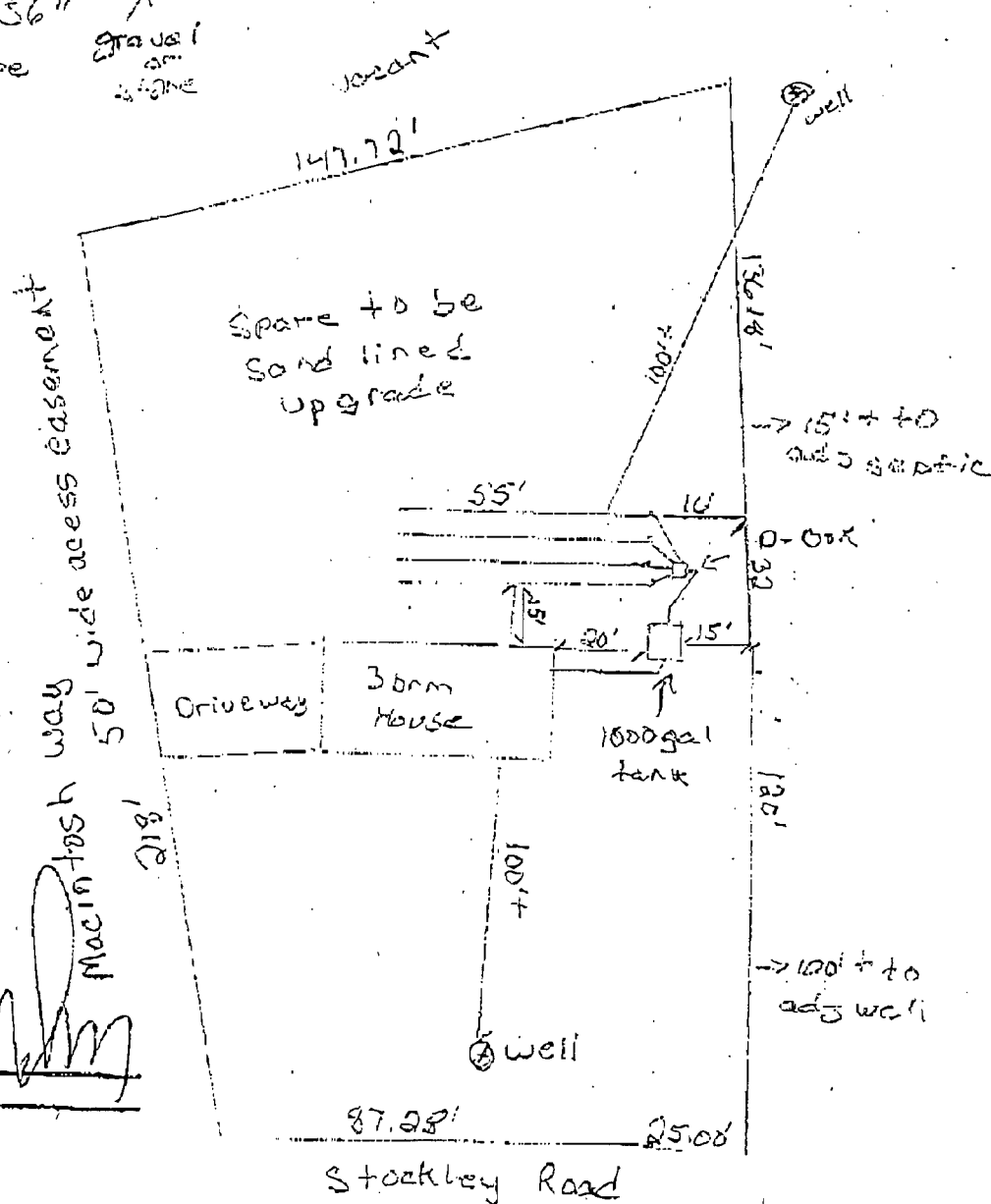
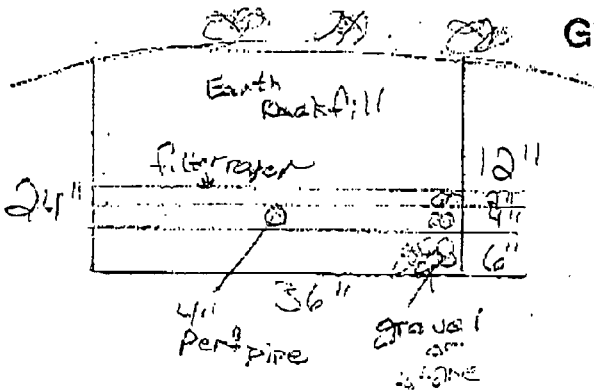
TAX MAP # 2-34-05.00-0055.05

DATE: 1-29-16

LICENSEE # 2278

LICENSEE

SIGNATURE *Clayton...*



As-Built
DNREC Approved
By: *[Signature]*
Date: 1-29-16

RECEIVED

Inspection Report

MAR 23 2016

GROUNDWATER

Permittee: Evans Norwood Permit #: 227107 Auth #: 3629
 Contractor: Eric Quigley Lic #: 2278 Phone #: 302-228-0985
 Date/Time of Call: 1/29/16 @ 8 AM System Ready: 2/1/16 3pm
 Property Location: South side County Road 280 (Shockley Road)

Specs

- 1000 GAL Gal
- Concrete Plastic
- 20' Ft/Dwelling
- Round 6" Risers
- PAV Lox Filter
- 2 Comp.
- REP IMP. 2 MED Baffles

Drains

- ~~_____ Gal/Dimensions~~
- ~~_____ Ft/Dwelling~~
- ~~_____ Ft/D-Box~~
- ~~_____ Vent~~
- ~~_____ Concrete~~
- ~~_____ Plastic~~ Anchored
- ~~_____ Alarm Type~~
- ~~_____ Separate Circuit~~

Miscellaneous

- Untreated Paper
- Filter Fabric
- Joints Sealed PVC
- Dwelling On Site
- Driveway per Plan
- No Bldg Connected 4" STUB OF SIT.
- 103' Adjacent Wells AS PER PLAN.

P.Box

- Plastic
- Concrete
- Baffle TEE
- 13' Ft/Tank
- 4 # Outlets
- Solid Pipe

Drain Man

- Ag Ag-free
- 4 # of Trenches
- 36" " Width
- 55' " Length
- AS PER PLAN Bed Dimensions
- 12" " Depth TOS/Ag-free
- 6' Spacing
- NONE Ft./Trees
- 5' Solid Pipe (sch. 40)

Wells

- Installed
- NA Central Water
- 30' Ft./Tank(s)
- Ft./Lift Station
- 100' Ft./Drain Field
- 252862 Tag Number

Comments: JOBS WERE DONE READY TO COVER, NO ISSUES

Final Site Restoration: _____

Thickness (of Cap): NA

Extent of Berm: _____

Inspectors Signature: _____ Date: _____

License Number: 2285 Authorization Number: 3629

License Number: #2278

Site Conditions GOOD/CLEAN

System Meets Permit Conditions Yes No

System to be Covered Yes No

Construction Report Required Yes No

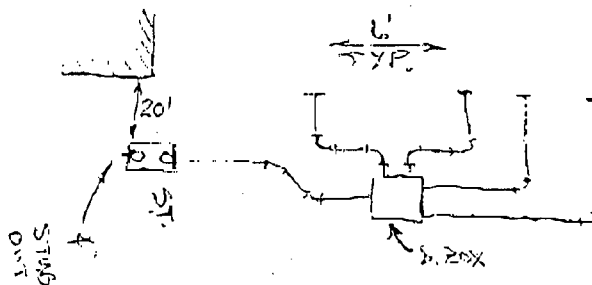
As Built Required Yes No

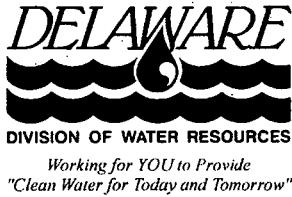
Needs Cap Inspection Yes No

Supervised Inspection Yes No

Jim Cassidy

Eric Quigley





**PERMIT
227107**



Tax Parcel Number: 2-34-05.00-0055.05 Lot Number: 1

Site Evaluation Number: 550624

Pursuant to provisions of Title 7, Delaware Code, Chapter 60, permission is hereby granted to:

Norwood, Evans E

23144 Hollyville Road, Harbeson, DE 19951 US

to construct, operate and maintain an onsite wastewater system.

Construction must be completed on or before 06/18/2016 , two years from permit issuance date. Construction must be performed by a person duly licensed by Delaware DNREC for such activity.

All current regulations governing wastewater system installation shall be followed.

All attached permit conditions shall be complied with.

The applicant is responsible for obtaining all additionally required permits and approvals.

**DNREC APPROVED
See Permit Conditions**

6-18-14

AUTHORIZED SIGNATURE

Date



*Working for YOU to Provide
"Clean Water for Today and Tomorrow"*

**PERMIT
227107**



Tax Parcel Number: **2-34-05.00-0055.05** Lot Number: **1**

Site Evaluation Number: **550624**

Conditions for both Owner and Contractor

§ 1 This system MUST be installed/repared by a licensed Class E System Contractor. The Contractor must call the Ground Water Discharges Section (GWDS) at (302) 739-9947 in Kent and New Castle Counties and (302) 856-4561 in Sussex County for system construction start-up authorization. The Contractor must call the GWDS for this authorization 24 hours prior to system construction start for Standard and I/A Systems and 72 hrs. prior for Large Systems. The Contractor must have an DNREC-approved permit copy on site during construction of this system.

§ 5 Connections and/or additions to the system other than what are proposed on the approved plot plan (s) are prohibited without prior approval from the Ground Water Discharges Section(GWDS).

§ 6 Roof downspouts, foundation drains, storm sewers, combined sewers or appurtenances thereto, or any sewer or device carrying or discharging either storm, surface, ground or cooling water, oil or water softener discharge shall not be connected to the system.

§ 20 The average daily discharge of this system is restricted to 360 gallons per day. Changes to permitted system flow must be pre-approved by the GWDS and may require a new permit(s) to be issued.

§ 23 A Certificate of Satisfactory Completion must be issued by the GWDS for this system prior to its use. The system is NOT approved for operation and maintenance until the required certificate has been issued.

§ 70 If the approved disposal area is wooded, at the discretion of the Class E System Contractor, it is recommended that after tree-clearing the disposal area be checked again by a Class D Soil Scientist prior to system installation. Refer to the Regulations for lot clearing guidance and Exhibit FF for Lot Clearing/Disturbed Site Inspection Report.

§ 90 It is the responsibility of the Class E System Contractor, with cooperation of the property owner, to establish and make visible all property corners that define the property boundaries prior to system installation/inspection. Failure to comply with this condition may necessitate additional Inspection(s) and delay subsequent site approval.

§ 94 The proposed/existing septic tank(s) must be upgraded with risers(2) for each compartment finished to above grade and a GWDS-approved outlet filter. The above-grade access covers shall be watertight and secure from vandalism. The outlet filter should be removed, inspected, cleaned and replaced per manufacturer's recommendations.

Conditions for Contractor

§ 4 The Class E System Contractor shall notify the GWDS for an inspection prior to covering the installation. Approval to cover must be given by the GWDS.

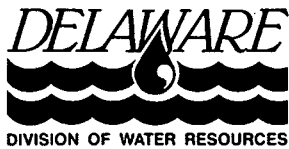
§ 7 The drainfield area, either above or below grade, must be installed according to the cross section in the permit design plan(s). Any changes to system depth/height will require pre-approval from the Class D Soil Scientist, the Class C Design Engineer(if applicable) and the GWDS.

§ 12 There shall be no soil disturbance within the primary and spare absorption areas except the minimum required for system/component installation and/or repair.

§ 16 The Class E System Contractor shall install a battery in the timer.

§ 24 It is the responsibility of the Class E System Contractor to verify that ALL isolation distances, as noted and approved in the permit, can be maintained. Furthermore, the contractor shall notify the Class B or C Designer/Engineer AND the GWDS if field conditions exist that prohibit the ability to maintain the approved isolation distances and/or requirements of the Regulations.

§ 48 Final Site Restoration must comply with Section 5.4.5.5 of the Regulations Governing the Design, Installation and Operation of On-Site Wastewater Treatment and Disposal Systems.



Working for YOU to Provide
"Clean Water for Today and Tomorrow"

PERMIT 227107



Tax Parcel Number: **2-34-05.00-0055.05** Lot Number: **1**

Site Evaluation Number: **550624**

§ 66 A construction report must be prepared by the Class E System Contractor and submitted to the GWDS within ten (10) days of system completion. This is to include any changes that require a post-construction "As-Built" drawing. "As-Built drawings detailing changes to engineered (pressurized) systems must be submitted by the Class C Engineer.

§ 77 The Class E System Contractor shall comply with all Occupational Safety and Health Act (OSHA) regulations. OSHA regulations can be found at the website www.osha.gov or by contacting the U.S. Department of Labor.

§ 91 All proposed changes to permit design MUST be submitted and approved in the form of a preconstruction "as-built" drawing prior to system installation. Contact the GWDS for guidance. Post-construction "as-built" drawings are subject to GWDS approval and MUST be submitted to the GWDS within ten (10) calendar days of system completion. All "as-built" drawings (pre or post) detailing changes to engineered systems MUST be generated by the Class C Design Engineer.

§ 92 This system type is classified as "mound" or "capping fill" and thus requires a second inspection to ensure sufficient soil "cap" or cover over the drainfield. The Class E System Contractor is to call for a "cap" inspection within ten (10) calendar days after receiving a satisfactory pre-cover inspection or authorization to cover without Departmental inspection, weather permitting.

Conditions for Owner

§ 17 The property owner shall connect to the county or municipal sewer system if and when such services become available and shall be in accordance with County and/or Municipal rules and regulations. At time of connection the existing septic disposal system shall be abandoned per DNREC Regulations and permit voided unless the GWDS approves continued operation.

§ 18 This system shall be maintained in such a manner as to prevent abnormal odors or surfacing, pooling and/or discharging of wastewater onto any surface waters.

§ 19 The sites of the initial and replacement absorption facilities shall not be covered by asphalt or concrete or subject to vehicular traffic or any activity or similar loadings that would adversely affect the soils. These sites shall be maintained so that they are free from encroachments by ancillary buildings and additions to main structures.

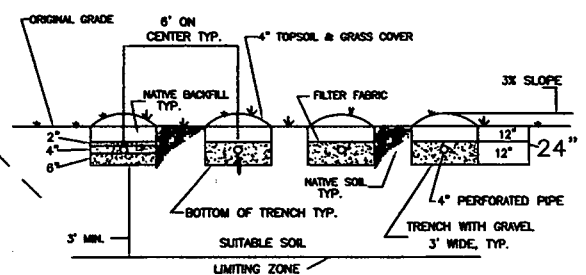
§ 21 The septic tank must be pumped by a licensed Class F Liquid Waste Hauler at a minimum of once every three (3) years. Septic tanks constructed of non-masonry materials should be pumped only when the seasonal water table is low to minimize possible flotation risk and must be immediately refilled by the owner.

§ 76 The effluent filter, proposed or existing in either the outlet baffle of the septic tank, distribution box, septic tank lift station (Exhibit "V") or separate lift station vault, shall be cleaned and maintained as necessary to prevent clogging of the disposal system and can be performed by the property owner.

§ 93 The site evaluation supporting this permit will expire five (5) years after site evaluation approval date. System replacement after this date will require a new site evaluation and subsequent GWDS approval.

227107

SEEPAGE TRENCHES
4 LATERALS
3 FEET WIDE
2 FEET DEEP
55 FEET LONG
6 FEET ON-CENTER



CROSS-SECTION DETAIL (NO SCALE)

STOCKELY ROAD

MACINTOSH WAY
50' WIDE ACCESS EASEMENT

WELL PROPOSED
WELL PER OWNER
MOBILE HOME
OWTDS

PROPOSED 3-BEDROOM

SPARE AREA

1000 GALLON SEPTIC TANK WITH MANHOLE RISERS AND EFFLUENT FILTER (SEE DNREC EXHIBIT G)

D-BOX (SEE DNREC EXHIBIT H)

5' MINIMUM UNPERFERATED SCH. 40 PVC

BOUNDARY DRAWING BASED ON AUGUST 21, 2006 SURVEY (REVISED OCTOBER 2, 2006)
"SUBDIVISION PLAN PREPARED FOR EVANS E. NORWOOD"
ALL LOTS VACANT UNLESS OTHERWISE NOTED
EASMENTS FOUND ARE SHOWN.
ALL KNOWN WELLS WITHIN 150' ARE SHOWN, WELL ARCS ARE 100' UNLESS NOTED

SCALE: 1" = 50'

THIS IS NOT A SURVEY, NOR IS IT TO BE CONSTRUED AS A SURVEY. DESIGNER WILL VERIFY ALL FEATURES SHOWN ON THIS PLAT.

SEPTIC DESIGN PLAN
NORWOOD
LOT 1
PARCEL; 234-5.00-55.05

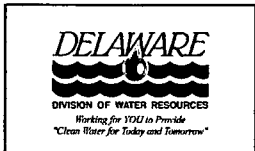
DELMARVA ENVIRONMENTAL, INC.
[Signature] 6/11/2014
IAN R. KAUFMAN, CPSS/SC
PO BOX 117
DAGSBORO, DE 19939
302-732-9858
CERTIFIED PROFESSIONAL SOIL SCIENTIST

Evans E. Norwood 6-11-14
AUTHORIZED SIGNATURE / DATE

DATE: JUNE 2014 JOB #: 14029

227107

RECEIVED



APPLICATION - PERMIT ON-SITE WASTEWATER SYSTEM



(Please Type or Print Legibly)

OWNER'S NAME: Evans E. Norwood PHONE: 302-381-9757

ADDRESS: 23144 Hollyville Road, Harbeson, DE 19951

PROJECT LOCATION: Lot 1, Evans E. Norwood Subdivision

TAX/MAP #: 234-5.00-55.05

APPLICATION PREPARER:

Ian R. Kaufman

DNREC

LICENSE #: 2175

PREPARER'S ADDRESS:

Ian R. Kaufman Delmarva Environmental, Inc. PO Box 117 Dagsboro, DE 19939

Phone Number: 302-732-9858 Fax Number: 302-732-9895 Mobile: 302-542-3356 email: irkaufman@mediacombb.net

I hereby affirm that the information provided on this document is accurate and complete.

Preparer's Signature:

[Handwritten Signature]

Date:

6/11/2014

-SEPTIC DESIGN CRITERIA-

(Please check all boxes that apply)

System Type: (CF = Cap & Fill / FD = Full Depth)

- Low Pressure Pipe (FD)
Elevated Sand Mound
Pressure Dose (FD)
Holding Tank
Gravity (FD)
Std. Pressure Dose (FD)
Std. Pressure Dose (CF)

- Low Pressure Pipe (CF)
Wisconsin At-Grade
Pressure Dose (CF)
Subsurface Micro Irrigation
Gravity (CF)
Other

Type of Construction:

- Replacement
New Construction
Component Replacement
Repair to Existing System
Reason:

- Bed or Trench
Gravelless Chamber or Stone/Gravel Sand-lined Yes No

- Authorization to Use Existing System
Permit #:
Present Condition:
Structure to be connected:

Existing System Malfunctioning Yes No N/A

of Bedrooms: 3
Avg. Percolation Rate: 30
Gallons Per Day Flow: 360
Minimum Sq. Ft. Rcq'd: 651
Sq. Ft. Proposed: 4x3'x55'=660

- Pre-Treatment Units
Septic Tank Recirculating Sand Filter
Other effluent filter

Central Water Available Yes No
(If yes, please state Utility Name:)

55 0624

Site Evaluation Approval

GROUNDWATER

The soils on this site are approved when the following is completed in full and is signed by the approving authority. This is not a septic permit but is required to obtain a septic permit. A septic permit is required to obtain a building or placement permit. Isolation requirements from wells, easements, ditches, and other encumbrances may limit the area that is available for a septic permit. It is the responsibility of the designer to verify the information provided by this approval prior to obtaining a septic permit. The information provided here is obtained primarily by field observations and is believed to be accurate under the conditions that existed at the time of the evaluation. Compaction of soils from lot clearing, grading activities, and filling activities may negate this approval or modify the type of system that can be permitted and installed. Lots that are wooded at the time the evaluation are to be inspected prior to septic system installation at the discretion of the installer.

Owner's Name: Norwood, Evans E. **Parcel Number:** 234-5.00-55.05
Owner's Address: 23144 Hollyville Road Lot 1
 Harbeson, DE 19951 **Job Number:** 14029

Initial Disposal System and Location: Full Depth Gravity treatment and disposal system in the immediate vicinity of Test Pit 1-1 & Soil Borings 1-2 and 1-3 provided that setback requirements under DNREC Exhibit C are met.

Depth to Limiting Zone: 72 inches for design purposes based on no observed redoximorphic features.

Design Considerations and Comments:


1. See Site Evaluation Report and Drawing.
2. See Exhibits K and L in the Delaware Regulations, amended January 11, 2014 (2014 Regulations) for criteria on Full Depth Gravity systems.
3. This property is not in the early implementation area and nitrogen removal is not required at this time. Advanced treatment meeting PSN3 is required for all innovative/alternative (I/A) systems designed after 11/30/08. Permit applications received on or after 1/1/15 for new and replacement systems throughout the Inland Bays Watershed shall comply with Section 8.4. Section 8.4.1 states that all new and replacement systems shall meet PSN3 standards for nitrogen removal.
4. See Exhibit C, Minimum Isolation Distances in the 2005 Regulations. All isolation distances specified in Exhibit C must be maintained e.g., 100-foot isolation distance between system and domestic water supply wells.
5. The wastewater disposal area should be clearly marked e.g., by surrounding it with construction fence and the area should be avoided as much as is feasible during construction to avoid disturbance/soil compaction. The Department of Natural Resources and Environmental Control (DNREC) has formulated guidance for clearing/soil compaction avoidance; contact DNREC at 302-739-9947 for guidance.

Replacement Disposal System and Location: Same as initial system if space permits or sand-lined upgrade.

Limitations of Soil Evaluation for System Design/Emplacement: The soil evaluation was performed to evaluate soil conditions with respect to a wastewater disposal system for a single family residence. For alternative uses contact the site evaluator or DNREC to determine whether additional site evaluation services are necessary.


Instructions to Property Owner

1. Contact a Class B or C Designer.
2. A permeability rate of **30 minutes per inch** has been estimated for the soil on your site based on soil textures and tables published by DNREC. You may use the estimated rate or, at your expense, have a percolation test conducted by a Class A Percolation Tester. Contact Delmarva Environmental, Inc. and DNREC if you choose to conduct a percolation test.
3. For questions call Delmarva Environmental, Inc. at (302) 732-9858 or DNREC at (302) 739-9947

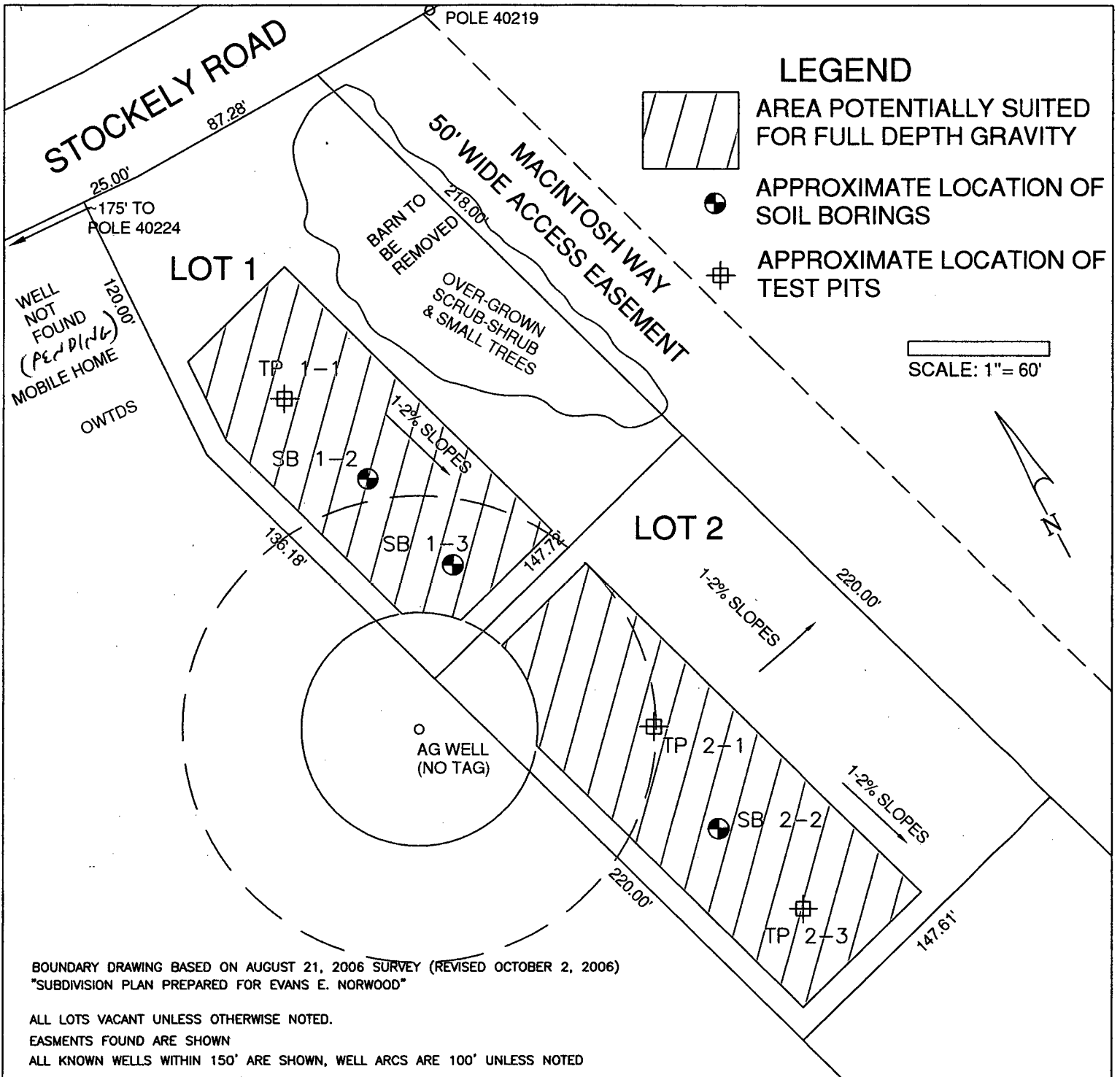
This report has been prepared by:  5/29/2014
 Ian R. Kaufman, Certified Professional Soil Scientist
 Delaware License Number 2175

Delmarva Environmental, Inc. has conducted this site evaluation in accordance with DNREC Regulations and Policies with the best of its ability and with the information provided by the owner and under the conditions that existed at the time of the evaluation. Delmarva Environmental, Inc. is only liable for this evaluation to the extent of the cost of this evaluation.

For Office Use Only

 05/29/14 05/29/19
 DNREC Reviewing Soil Scientist-Approving Authority Date Date Field Checked Expiration Date

DNREC Disclaimer: Approval of a site evaluation indicates only that the site evaluation, based on information presented to us, was conducted in compliance with these Regulations. It is not an indication of the correctness or quality of the site evaluation and does not guarantee the evaluation is free of omissions or that a permit can be issued.



THIS IS NOT A SURVEY, NOR IS IT TO BE CONSTRUED AS A SURVEY. DESIGNER WILL VERIFY ALL FEATURES SHOWN ON THIS PLAT.

SITE EVALUATION DRAWING
NORWOOD
 PARCEL NUMBERS: 234-5.00;
 55.05 (LOT 1) & 55.06 (LOT 2)
 ~0.75 ACRES FOR EACH LOT

DELMARVA ENVIRONMENTAL, INC.

[Signature] 5/2/2014

IAN R. KAUFMAN, CPSS/SC
 PO BOX 117
 DAGSBORO, DE 19939
 302-732-9858
 CERTIFIED PROFESSIONAL SOIL SCIENTIST

DATE: APRIL 2014 JOB #: 14029

RECEIVED

MAY 27 2014

LEGEND



AREA POTENTIALLY SUITED FOR FULL DEPTH GRAVITY

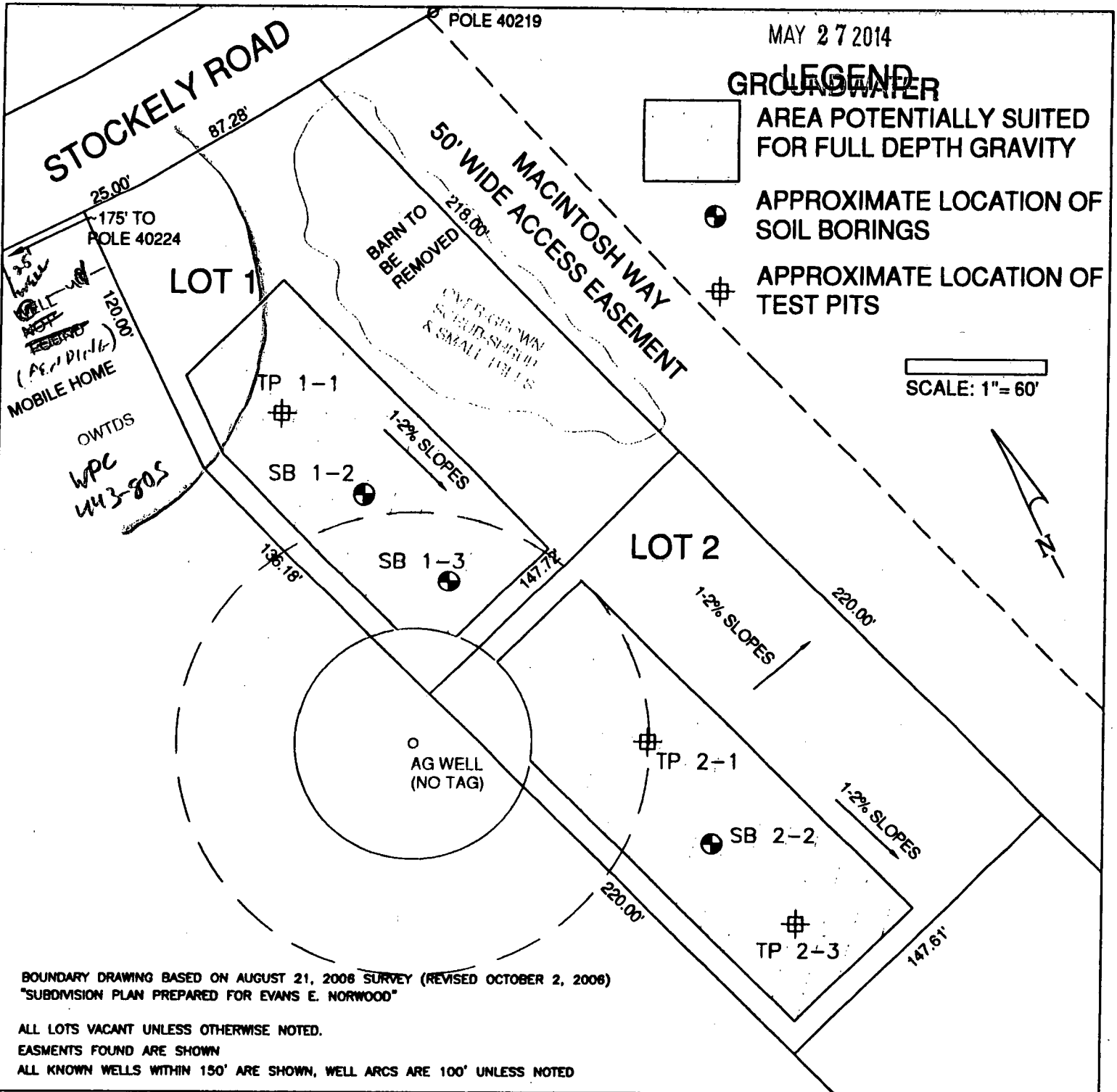


APPROXIMATE LOCATION OF SOIL BORINGS



APPROXIMATE LOCATION OF TEST PITS

SCALE: 1" = 60'



BOUNDARY DRAWING BASED ON AUGUST 21, 2008 SURVEY (REVISED OCTOBER 2, 2008)
"SUBDIVISION PLAN PREPARED FOR EVANS E. NORWOOD"

ALL LOTS VACANT UNLESS OTHERWISE NOTED.
EASMENTS FOUND ARE SHOWN
ALL KNOWN WELLS WITHIN 150' ARE SHOWN, WELL ARCS ARE 100' UNLESS NOTED

THIS IS NOT A SURVEY, NOR IS IT TO BE CONSTRUED AS A SURVEY. DESIGNER WILL VERIFY ALL FEATURES SHOWN ON THIS PLAT.

SITE EVALUATION DRAWING
NORWOOD

PARCEL NUMBERS: 234-5.00;
55.05 (LOT 1) & 55.06 (LOT 2)
~0.75 ACRES FOR EACH LOT

DELMARVA
ENVIRONMENTAL, INC.

IAN R. KAUFMAN, CPSS/SC
PO BOX 117
DAGSBORO, DE 19939
302-732-9858
CERTIFIED PROFESSIONAL SOIL SCIENTIST

DATE: APRIL 2014

JOB #: 14029

SEWAGE DISPOSAL SYSTEM FOR

W.C. 14350

PRESENT ADDRESS.

NAME:

DATE:

SCALE:

INDICATE NORTH:

LOCATION OF PROPOSAL: (give two route numbers and the nearest town)

Indicate the cross section of the tile field or seepage bed in this area.

PERM # EXPIRES

APPROVED
 Department of
 Natural Resources & Environmental Control
 State of Delaware

By
 DIVISION OF ENVIRONMENTAL CONTROL

Owner's Signature: <u> </u>	PERCOLATION RATE min./1 inch	PROPOSED
<p>INDICATE ONLY WHAT APPLIES</p> <p>1. <input type="checkbox"/> No central sewer available</p> <p>2. <input type="checkbox"/> No central water available</p> <p style="text-align: center;">OR</p> <p>3. <input type="checkbox"/> Central water supplied</p> <p>4. <input type="checkbox"/> No water course within 500'</p> <p style="text-align: center;">OR</p> <p>5. <input type="checkbox"/> Water course <u> </u> ft. from tile field.</p>	<p>MPI = <u> </u> Area <u> </u> OR</p> <p><u> </u> (MPI) X <u> </u> (GPD) =</p> <p><u> </u> Sq. Ft. Required</p> <p><u> </u> ft. trenches (width)</p> <p><u> </u> linear ft.</p>	<p><u> </u> trenches</p> <p><u> </u> ft. long</p> <p><u> </u> wide</p> <p><u> </u> ft. between trenches</p> <p><u> </u> X <u> </u> Seepage</p> <p><u> </u> <u> </u></p>

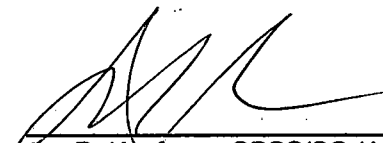
SOIL PROFILE NOTES

Profile #: TEST PIT 1-1 Job Number: 14029
 Date of Observation: 4/26/2014
 Tax ID Number: 234-500-5505
 Project Name: Neawood
 Location: LOT 1
 Slope: 1-2% / Slight Backslope
 Relief: Slight Backslope
 Depth to Redoximorphic Features or other potential limiting factor: ~48" / > 72"
 Estimated Permeability based on field estimates of soil textures: ~20 to 30 MPI
 Free water at time of observation: > 72" / ~120"
 Soil Classification: Typic Hapludult
 GPS Coordinates: N 38.69149° W 75.22688° (± 9.7')

Horizon	Depth (inches)		Moist Munsell Colors		RMF or Non-RMF Colors; Quantity/Size/Contrast	Field Estimated Soil Texture	Structure Grade/Size/Type	Consistence (moist)	
			Matrix	Redoximorphic Features (RMF)					Non-RMF & Mottles
Ap	0	10	10YR4/3	—	—	LS	1MGR	VFR	
E	10	18	2.5Y6/4	—	—	GRLST	1MSBK	VFR	
Bt	18	40	10YR5/6 10YR6/6	DISTINCT WEATH. MIN.	10YR8/1	F 3 P	LCOSL	1MSBK	FR
C1	40	48	10YR6/6	DISTINCT WEATH. MIN.	10YR8/1 10YR7/8	C 2 P C 2 F	LCOS	MA	VFR
C2	48	60	10YR6/6	10YR7/1 7.5YR7/8	—	C 2 P C 2 D	LCOST	MA	VFR/FR
C3	60	72	2.5Y7/3	10YR7/1 10YR6/8	—	C 2 F C 2 P	LCOST	MA	VFR/FR

Nomenclature and abbreviations are adapted from the *Field Book for Describing and Sampling Soils; Version 3.0* (NRCS, 2012)

Comments:



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SOIL PROFILE NOTES

Profile #: Soil Boring 1-2 Job Number: 17029
 Date of Observation: 4/26/2014
 Tax ID Number: 234-5.00-55.05
 Project Name: Deerwood
 Location: Lot 1
 Slope: 1-2° N
 Relief: Slight Backslope
 Depth to Redoximorphic Features or other potential limiting factor: > 72"
 Estimated Permeability based on field estimates of soil textures: ~20 to 30 MP1
 Free water at time of observation: > 72"
 Soil Classification: Arctic Hapludalf
 GPS Coordinates: N 38.69137° W 75.22677° (± 8.1')

Horizon	Depth (inches)		Matrix	Moist Munsell Colors		RMF or Non-RMF Colors; Quantity/Size/Contrast	Field Estimated Soil Texture	Structure Grade/Size/Type	Consistence (moist)
	Top	Bottom		Redoximorphic Features (RMF)	Non-RMF & Mottles				
Ap	0	10	10YR4/3	—	—	—	LS	1 MGR	VFR
E	10	24	2.5Y6/4	—	—	—	GRLS	MA	VFR
Bt	24	60	10YR5/6 10YR6/6	DISTINCT WEATH. MIN.	10YR8/1	C 2 P	LS+ + COSL	1 M SBM	VFR + FR
C	60	72	10YR6/6	DISTINCT WEATH. MIN.	10YR8/1 10YR7/8	C 2 P F 2 D	LS+	MA	VFR

Nomenclature and abbreviations are adapted from the *Field Book for Describing and Sampling Soils*, Version 3.0 (NRCS, 2012)

Comments: SB 1-3 N38.69126°, W75.22670° (± 8.5')
 Ap 0-10 10YR4/3 LS
 E 10-24 2.5Y6/4 LS
 Bt 24-48 10YR5/6
 10YR6/6 DISTINCT WEATHERED SL
 C1 48-60 2.5Y7/3 LCOS
 C2 60-72 10YR6/6 LCOS


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Map Search

Sussex County, Delaware - Zoning and Sales Information

PROPERTY DETAILS

- [General Information](#)
- [Sales Info](#)
- [Map of Property](#)

General Information

District-Map-Parcel:

2-34 5.00 55.05

Owner(s) Names:

NORWOOD , EVANS E

Property Address:

S/RT 280
W/50'ACCESS EASEMENT

Billing Address:

23144 HOLLYVILLE RD
HARBESON , DE 19951

Land Use:

Residential, Vacant Lot, No Improvement

Zoning:

Agricultural/Residential

Town/Municipality:

-No Town or Municipality Specified-

Fire District(s):

Lewes Fire District

Tax Ditch(es):

-No Ditch Records-

Sewer/Water District:

-No Sewer Records-

Watershed: