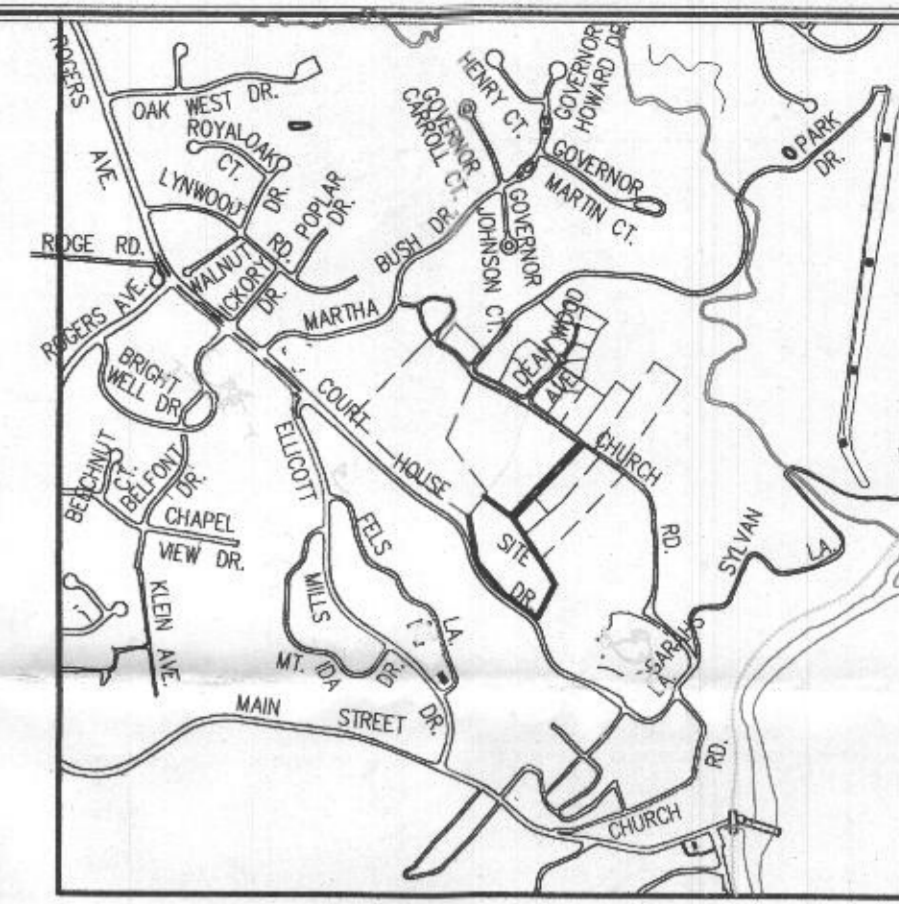


LEGEND

- EXISTING 2' CONTOURS
- EXISTING 10' CONTOURS
- - - EXISTING TREE LINE
- SOIL LINES AND TYPES
- DENOTES PROPOSED WELL
- DENOTES FAILED PERC
- DENOTES PASSED PERC
- DENOTES PROPOSED PERC
- DENOTES PROPOSED HOUSE
- DENOTES 15%-24.9% SLOPES
- DENOTES 25% AND GREATER SLOPE
- DENOTES 1500 Sq.Ft. ALTERNATE WELL SITE



VICINITY MAP
SCALE : 1" = 1200'

GENERAL NOTES:

1. THIS AREA DESIGNATES A PRIVATE SEWERAGE EASEMENT OF AT LEAST 10,000 SQUARE FEET AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWERAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWERAGE IS AVAILABLE. THESE EASEMENTS 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. RECORDATION OF A MODIFIED SEWERAGE EASEMENT SHALL NOT BE NECESSARY.
2. ADJUSTMENTS TO SEPTIC EASEMENT AREA IS NOT PERMITTED WITHOUT ADDITIONAL TESTING.
3. THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
4. ALL WELLS AND SEPTIC SYSTEMS WITHIN 100' OF THE PROPERTY BOUNDARIES AND ALL EXISTING OR PROPOSED WELLS LESS THAN 200' DOWN/GRADIENT OF A SEPTIC SYSTEM AND/OR SEPTIC EASEMENT.
5. ALL HOUSE SITES SHOWN COMPLY WITH MINIMUM BUILDING RESTRICTION REGULATIONS.
6. TOPOGRAPHY SHOWN IS FROM HOWARD COUNTY GIS TOPOGRAPHY AT 2' CONTOUR INTERVAL AND SUPPLEMENTED BY FISHER, COLLINS & CARTER, INC
7. BOUNDARY OUTLINE BASED ON AVAILABLE DEED OF RECORD WITHOUT THE BENEFIT OF A FIELD SURVEY AT THIS TIME.
8. ANY CHANGES TO A PRIVATE SEWERAGE EASEMENT SHALL REQUIRE A REVISED PERC CERTIFICATION PLAN.
9. DEED REFERENCE LIBER 2063 FOLIO 105.

SOILS LEGEND

SOIL	NAME	CLASS
GfC	Gladstone-Urban land complex, 0 to 15 percent slopes	B
GmC	Glenville silt loam, 0 to 15 percent slopes	C
MaC	Manor loam, 0 to 15 percent slopes	B
MaD	Manor loam, 15 to 25 percent slopes	B
MgD	Manor-Bannertown sandy loams, 15 to 25 percent slopes, rocky	B
MgF	Manor-Bannertown sandy loams, 25 to 65 percent slopes, rocky	B

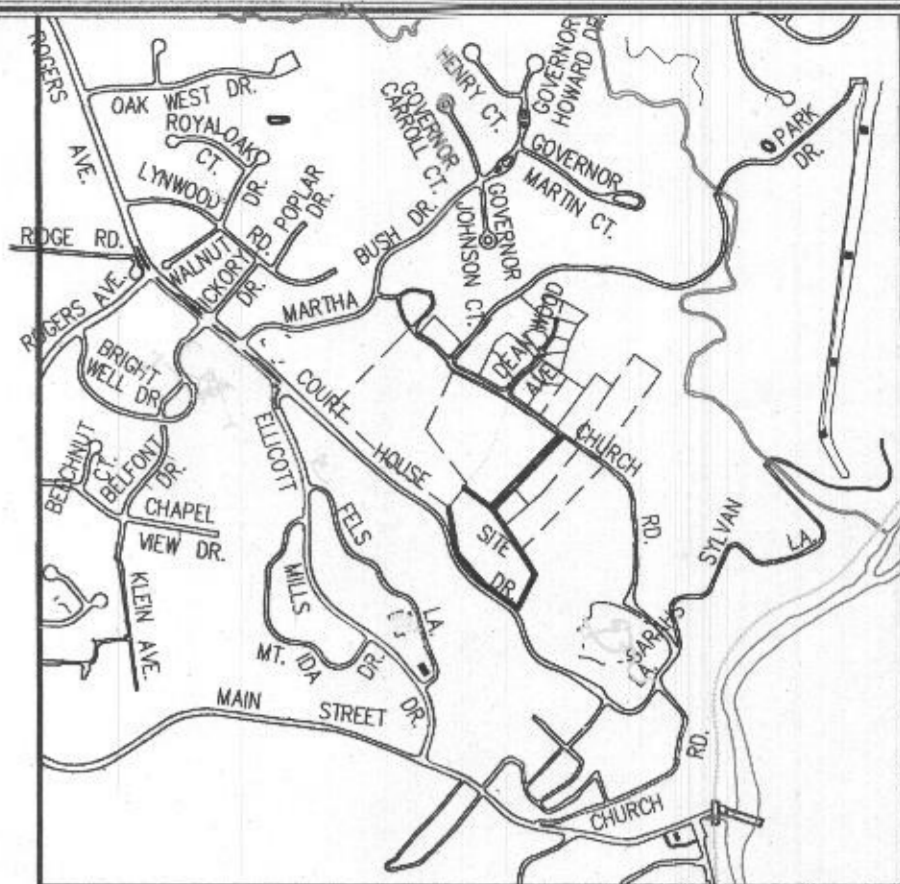
Test Plan

**PERC APPLICATION PLAT
3534 CHURCH ROAD**

TAX MAP #25 GRID No. 7 PARCEL: 161
2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: 1"=50' DATE: NOVEMBER 14, 2019

I:\2019\190408\Engineering\Drawings\190408 Per Plan.dwg, Model, 1:50

- LEGEND**
- EXISTING 2' CONTOURS
 - EXISTING 10' CONTOURS
 - EXISTING TREE LINE
 - SOIL LINES AND TYPES
 - DENOTES FAILED PERC
 - DENOTES PASSED PERC
 - OHW- DENOTES OVER HEAD WIRE
 - DENOTES 25% AND GREATER SLOPE
 - DENOTES 1500 Sq.Ft. ALTERNATE WELL SITE



VICINITY MAP
SCALE: 1" = 1200'

PERC CERTIFICATION
I certify that the locations shown herein are based on field locations done under my direct supervision and are correct to the best of my professional knowledge and belief.

Signature of Professional Land Surveyor: *Mark L. Robel*
Mark L. Robel - Property Line Surveyor No. 339 Expires 10/04/20

Date: 4/03/20

APPROVED FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.

Signature for Maura Roseman
COUNTY HEALTH OFFICER

Date: 4/21/2020

GENERAL NOTES:

1. THIS AREA DESIGNATES A PRIVATE SEWERAGE AREA AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWERAGE DISPOSAL FOR LOTS CREATED PRIOR TO MARCH OF 1972. IT PROVIDES AT LEAST ENOUGH AREA TO ACCOMMODATE AN INITIAL AND TWO REPLACEMENT SEPTIC APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS HEALTH OFFICER, HOWARD COUNTY HEALTH DEPT. DATE SYSTEMS AS REQUIRED BY THE HOWARD COUNTY HEALTH DEPARTMENT. IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWERAGE IS AVAILABLE. THIS AREA 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 AREA. RECORDATION OF A MODIFIED SEWERAGE AREA SHALL NOT BE NECESSARY.
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ALL 3 SYSTEM

SEWERAGE DISPOSAL SYSTEM DATA DESIGN FOR 2 BEDROOMS

LOADING RATE = 2 BEDROOMS X 150 GPD/BEDROOM = 300 GPD
APPLICATION RATE = 0.8
EFFECTIVE SIDEWALL BEGINS AT 3 FEET
TRENCH DEPTH (W) = 8 FEET
TRENCH WIDTH (D) = 3 FEET
EFFECTIVE DEPTH (D) = 5 FEET
SF OF DRAINFIELD = 300 GPD / 0.8 = 375 SF
COEFFICIENT OF REDUCTION OF TRENCH LENGTH = $(W+2)/(W+1+2D) = (3+2)/(3+1+(2 \times 5)) = 0.357$
TRENCH LENGTH = 375 SF x .45 = 44.63 FEET
TRENCH SPACING = 20+W = ((2 \times 5) + 3) = 13' USE 13'

Approved Septic System Plan
Howard County Health Department

Signature: *Ruth...* Date: 4/21/2020

SOILS LEGEND		
SOIL	NAME	CLASS
GfC	Gladstone-Urban land complex, 0 to 15 percent slopes	B
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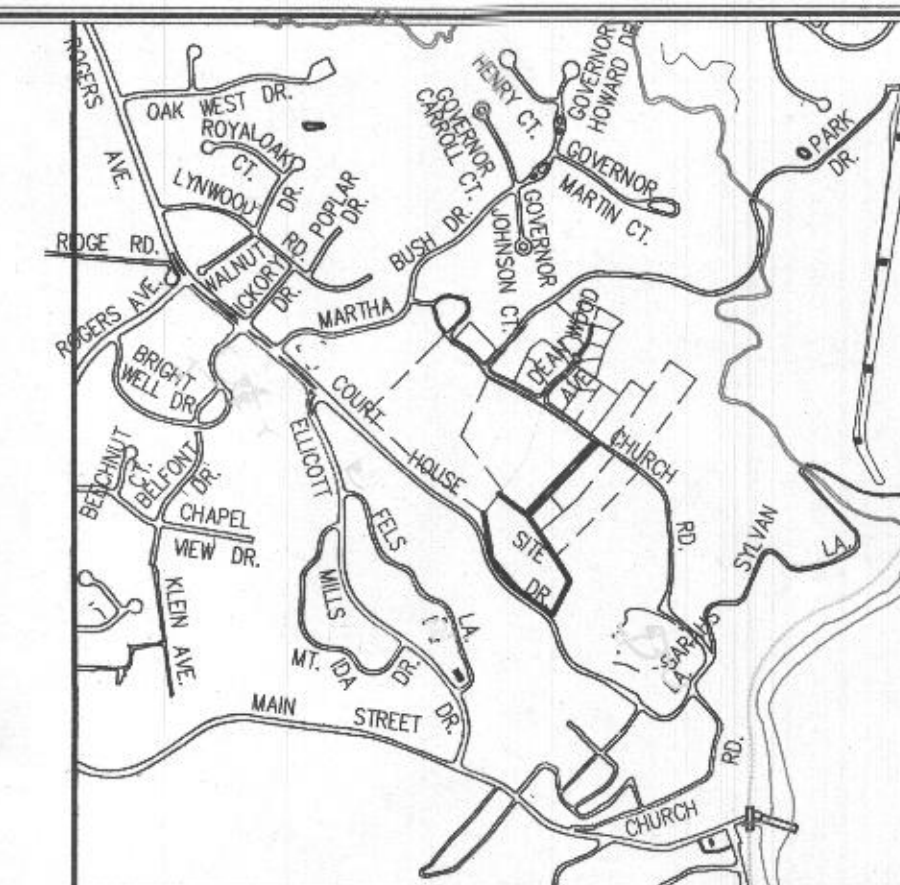
THE PURPOSE OF THIS PLAN CREATE A NEW SEPTIC EASEMENT FOR THE HOME REMODEL

PERC CERTIFICATION PLAT
3534 CHURCH ROAD

TAX MAP #25 GRID No. 7 PARCEL: 161
2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: 1" = 50' DATE: MARCH 31, 2020

LEGEND

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Mark L. Robel
 Signature of Professional Land Surveyor
 Mark L. Robel, Property License No. 339 Expires 10/04/20

4/03/20
 Date

APPROVED FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS,
 HOWARD COUNTY HEALTH DEPARTMENT.

Monica Rossman
 COUNTY HEALTH OFFICER

4/21/2020
 DATE

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Monica Rossman
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 Approved Septic System Plan
 Howard County Health Department

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