

PROFILE VIEW
SCALE: 1"=30'

NOTE
THE EXISTING WELL SHOWN ON THIS PLAN, TAG NO. HO 15-0048 HAS BEEN FIELD LOCATED BY FISHER, COLLINS & CARTER, INC., PROFESSIONAL LAND SURVEYORS AND IS ACCURATELY SHOWN.

LEGEND

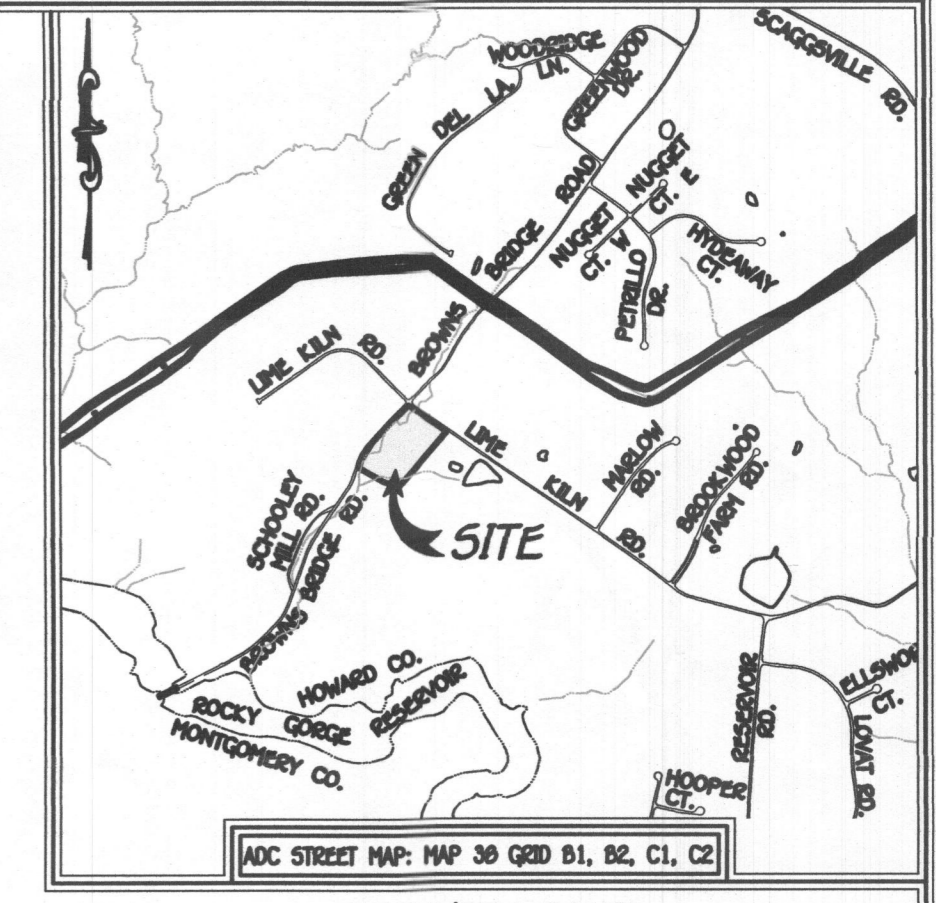
- - - - - EXISTING 2' CONTOURS
- - - - - EXISTING 10' CONTOURS
- - - - - EXISTING TREE LINE
- - - - - SOIL LINES AND TYPES
- DENOTES EXISTING WELL
- DENOTES PASSED PERC
- DENOTES PREVIOUSLY FAILED PERC HOLE
- DENOTES 1500 SQ.FT. ALTERNATE WELL SITE

INITIAL TRENCH DESIGN

| TRENCH | GROUND ELEV. | TOP OF STONE ELEV. | PIPE INVERT DEPTH FROM GROUND | DEPTH TO STONE | DEPTH OF STONE (FT) | BOTTOM OF TRENCH ELEV. | EFFECTIVE DEPTH STARTS AT | EFFECTIVE DEPTH (D) | WIDTH OF TRENCHES (W) | TRENCH SPACING |
|--------|--------------|--------------------|-------------------------------|----------------|---------------------|------------------------|---------------------------|---------------------|-----------------------|----------------|
| 1A | 358.0 | 353.5 | 2.5' | 5.5' | 348.0 | 348.0 | 3.0' | 5.0' | 3.0' | 13' |
| 1B | 354.2 | 351.7 | 2.5' | 5.5' | 348.2 | 348.2 | 3.0' | 5.0' | 3.0' | 13' |
| 1C | 352.0 | 349.5 | 2.5' | 5.5' | 344.0 | 344.0 | 3.0' | 5.0' | 3.0' | 13' |

REPLACEMENT TRENCH DESIGN

| TRENCH | GROUND ELEV. | TOP OF STONE ELEV. | PIPE INVERT DEPTH FROM GROUND | DEPTH TO STONE | DEPTH OF STONE (FT) | BOTTOM OF TRENCH ELEV. | EFFECTIVE DEPTH STARTS AT | EFFECTIVE DEPTH (D) | WIDTH OF TRENCHES (W) | TRENCH SPACING |
|--------|--------------|--------------------|-------------------------------|----------------|---------------------|------------------------|---------------------------|---------------------|-----------------------|----------------|
| 2A | 351.9 | 349.4 | 2.5' | 5.5' | 343.9 | 343.9 | 3.0' | 5.0' | 3.0' | 13' |
| 2B | 353.0 | 350.5 | 2.5' | 5.5' | 344.0 | 344.0 | 3.0' | 5.0' | 3.0' | 13' |
| 3A | 354.3 | 351.8 | 2.5' | 5.5' | 348.3 | 348.3 | 3.0' | 5.0' | 3.0' | 13' |
| 3B | 353.3 | 350.8 | 2.5' | 5.5' | 345.3 | 345.3 | 3.0' | 5.0' | 3.0' | 13' |
| 3C | 352.2 | 349.7 | 2.5' | 5.5' | 344.2 | 344.2 | 3.0' | 5.0' | 3.0' | 13' |

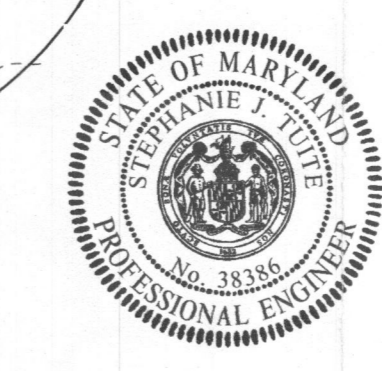


VICINITY MAP
SCALE: 1" = 2000'

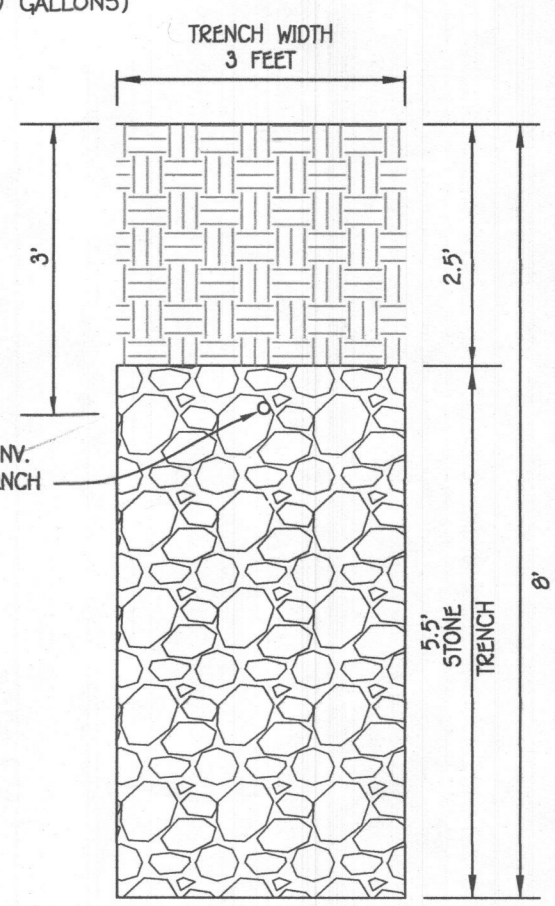
- GENERAL NOTES:**
- THIS AREA DESIGNATES A PRIVATE SEWERAGE EASEMENT OF AT LEAST 10,000 SQUARE FEET AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWERAGE DISPOSAL IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWERAGE IS AVAILABLE. THESE EASEMENTS 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.
 - ANY CHANGE TO THE LOCATIONS OR DEPTHS TO ANY COMPONENTS MUST BE APPROVED BY THE ENGINEER AND THE HOWARD COUNTY HEALTH DEPARTMENT PRIOR TO INSTALLATIONS. A REVISED SITE PLAN MAY BE REQUIRED.
 - THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
 - NO EXISTING WELLS AND/OR SEWERAGE INFORMATION WAS AVAILABLE FROM COUNTY RECORDS WITHIN 100 FEET OF THE SITE.
 - ALL HOUSE SITES SHOWN COMPLY WITH MINIMUM BUILDING RESTRICTION REGULATIONS.
 - TOPOGRAPHY SHOWN IS FROM HOWARD COUNTY GIS TOPOGRAPHY AT 2' CONTOUR INTERVAL AND FIELD RUN BY FISHER, COLLINS & CARTER, INC.
 - BOUNDARY OUTLINE BASED ON A FIELD SURVEY BY FISHER, COLLINS AND CARTER, INC.
 - ANY CHANGES TO A PRIVATE SEWERAGE EASEMENT SHALL REQUIRE A REVISED PERC CERTIFICATION PLAN.
 - DEED REFERENCES: LIBER 14361, FOLIO 001 & LIBER 423, FOLIO 27.
 - THE MAXIMUM EARTH COVER OVER THE TANK IS 3 FEET. GREATER EARTH COVER WILL REQUIRE A HEAVY LOAD BEARING TANK.
 - ELECTRICAL WORK FOR THE INSTALLATION MUST BE PERFORMED BY A LICENSED ELECTRICIAN.
 - THE WELL HO-15-0048 HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN.
 - 2 CHAMBER TOP SEAM TANK (1500 GALLONS)



Approved Septic System Plan
Howard County Health Department
Robert J. [Signature] 12/23/2016
Signature Date



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. 38386, EXPIRATION DATE: 01/12/2018.
Stephen J. [Signature] 12/21/16
Signature Of Professional Engineer Date



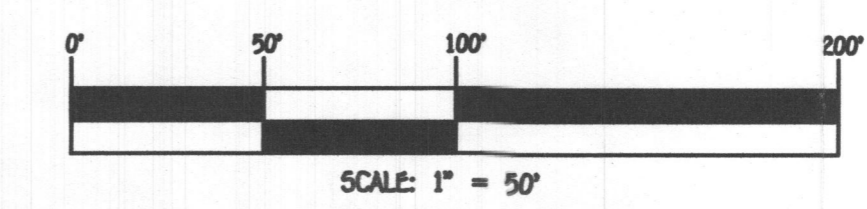
INITIAL TRENCH DETAIL
SCALE: 1"=2'

SEPTIC SYSTEM ELEVATIONS
EX. GROUND AT SEPTIC TANK = 358.5
TOP OF SEPTIC TANK = 355.5
COVER OVER SEPTIC TANK = 3.0
INV. INTO SEPTIC TANK = 354.7
INV. OUT OF SEPTIC = 354.4
EX. GROUND AT DISTRIBUTION BOX = 356.7
INV. INTO DISTRIBUTION BOX = 354.1
INV. OUT OF DISTRIBUTION BOX = 353.7

SEWERAGE DISPOSAL SYSTEM DATA
5 BEDROOMS
LOADING RATE = 5 BEDROOMS X 150 GPD/BEDROOM = 750 GPD
(SYSTEM IS DESIGNED FOR POTENTIAL FUTURE BEDROOMS)
APPLICATION RATE = 0.6
EFFECTIVE SIDEWALL BEGINS AT 3 FEET
TRENCH DEPTH = 8 FEET
TRENCH WIDTH (W) = 3 FEET
EFFECTIVE DEPTH (D) = 5 FEET
SF OF DRAINFIELD = 750 GPD / 0.6 = 1250 SF
COEFFICIENT OF REDUCTION OF TRENCH LENGTH = (W+2)/(W+1+2D) = 0.357
TRENCH LENGTH = 1250 SF x 0.357 / 3 = 146.8 FEET (USE 150FEET)
TRENCH SPACING = 2D+W = (2*5) + 3 = 13 USE 13'

ONSITE SEWERAGE DISPOSAL SYSTEM PLAN
LIME KILN ROAD & 12671 LIME KILN ROAD

TAX MAP #40 GRID #23 PARCELS: 244 (1ST & 2ND PARCEL)
FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: 1"=50' DATE: DECEMBER, 2016

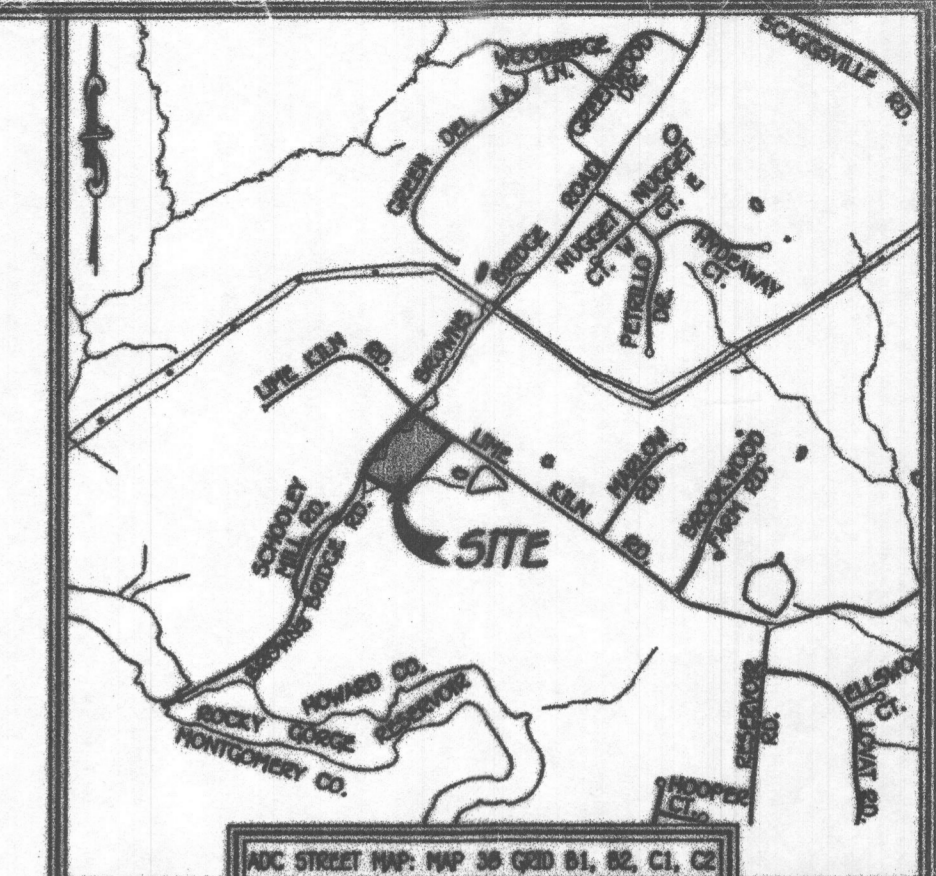


OWNER
TOM & KIM HOWARD
12671 LIME KILN ROAD
FULTON, MARYLAND 20759
(301) 776-0256

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CONTINENTAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL FREE
ELLSWORTH CITY, MARYLAND 21142
(410) 461-2095

LEGEND

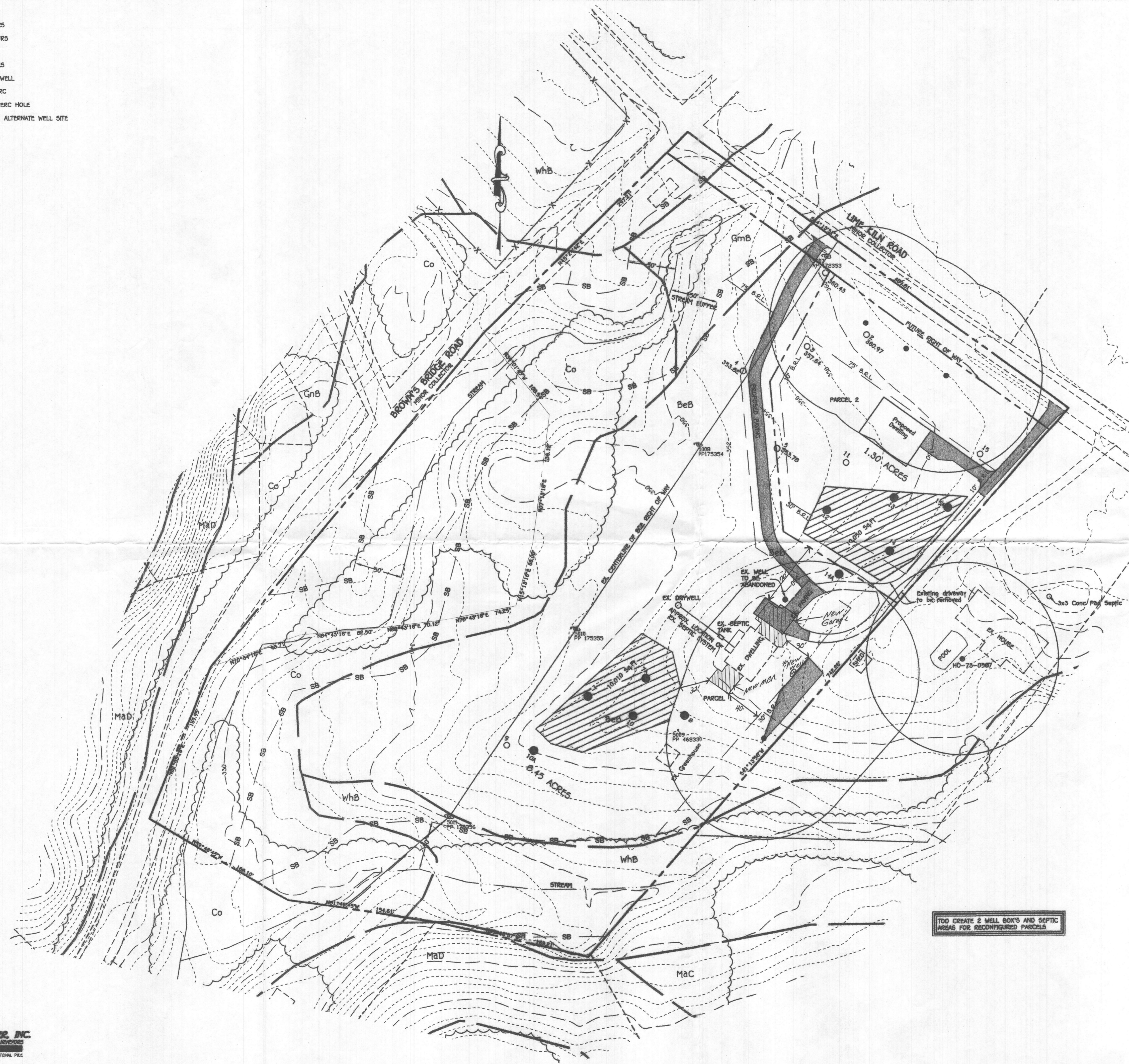
- EXISTING 2' CONTOURS
- EXISTING 10' CONTOURS
- - - EXISTING TREE LINE
- SOIL LINES AND TYPES
- DENOTES PROPOSED WELL
- DENOTES PASSED PERC
- 1 PREVIOUSLY FAILED PERC HOLE
- DENOTES 1500 Sq.Ft. ALTERNATE WELL SITE



VICINITY MAP
SCALE: 1" = 2000'

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. NO EXISTING WELLS AND/OR SEWERAGE INFORMATION WAS AVAILABLE FROM COUNTY RECORDS WITHIN 100 FEET OF THE SITE.
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 FIELD RUN BY FISHER, COLLINS & CARTER, INC.
7. BOUNDARY OUTLINE BASED ON A FIELD SURVEY BY FISHER, COLLINS AND CARTER, INC.
8. ANY CHANGES TO A PRIVATE SEWERAGE EASEMENT SHALL REQUIRE A REVISED PERC CERTIFICATION PLAN.
9. DEED REFERENCES: LIBER 14361, FOLIO 001 & LIBER 483, FOLIO 27.
10. THE FINAL WILL NOT BE SIGNED UNTIL THE NEW WELLS ARE DRILLED AND THE EXISTING WELL IS ABANDONED.
11. PARCEL 244 (PARCELS 23 AND 24) CONVEYED TO NEW MARYLAND REALTY, INC. BY HEALTH DEPARTMENT UNTIL THE WELLS FOR BOTH PARCELS 1 AND 2 HAVE BEEN DRILLED IN THEIR APPROVED LOCATION WITH COMPLETION REPORTS APPROVED BY THE HEALTH DEPARTMENT AND THE EXISTING WELL HAS BEEN PROPERLY ABANDONED WITH ABANDONMENT REPORT SUBMITTED TO HEALTH DEPARTMENT. THE SEWER DISPOSAL AREA FOR PARCEL 2 IS NOT APPROVED FOR USE UNTIL THE EXISTING WELL LESS THAN 100' AWAY IS ABANDONED.



PERC CERTIFICATION
I certify that the location of the proposed wells and septic systems shown on this plan were determined by me or under my direct supervision and are in accordance with the Maryland State Department of the Environment's regulations and my professional knowledge and belief.
Signature of Professional Engineer: Terrell A. Fisher, Professional Engineer, License No. 10692 Expires 12/13/15
Date: 11/17/14

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS,
HOWARD COUNTY DEPARTMENT.
Signature for Monica Rossman
COUNTY HEALTH OFFICER
DATE: 11/17/2014

SOILS LEGEND

| SOIL | NAME | CLASS |
|------|--|-------|
| BeB | Benevola silt loam, 3 to 8 percent slopes | B |
| Co | Codorus and Hiltoro silt loam, 0 to 3 percent slopes | C |
| GmB | Glenville silt loam, 3 to 8 percent slopes | C |
| MaD | Manor loam, 15 to 25 percent slopes | B |
| whb | Willshire silt loam, 3 to 8 percent slopes | C |

Only Copy

PERCOLATION CERTIFICATION PLAN
LIME KILN ROAD &
12671 LIME KILN ROAD

TAX MAP #40 GRID #23 PARCELS: 244 (1ST & 2ND PARCEL)
FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: 1"=50' DATE: NOVEMBER 9, 2014

Approved 1316004770
11/17 RAC

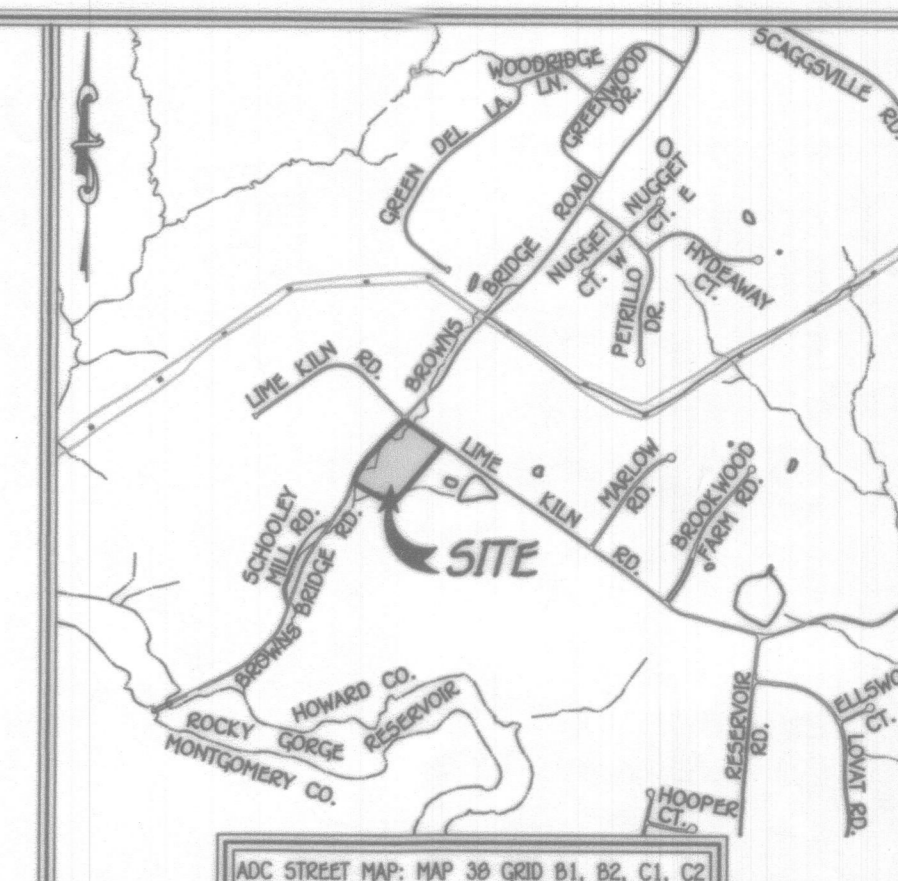
1:\2013\13014\dwg\12671 Lime Kiln Perc Cert Plan 063014.dwg, 11/5/2014 1:26:56 PM, 1:1

OWNER
TOM & KIM NORRIS
12671 LIME KILN ROAD
FULTON, MARYLAND 20759
(301) 776-8256

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTRAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
ELICOTT CITY, MARYLAND 21042
(410) 481-0295

LEGEND

- EXISTING 2' CONTOURS
- EXISTING 10' CONTOURS
- EXISTING TREE LINE
- SOIL LINES AND TYPES
- DENOTES PROPOSED WELL
- DENOTES PASSED PERC
- 1 DENOTES FAILED PERC HOLE
- DENOTES 1500 Sq.Ft. ALTERNATE WELL SITE



VICINITY MAP
SCALE: 1" = 2000'

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.
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9. DEED REFERENCES: LIBER 14361, FOLIO 001 & LIBER 423, FOLIO 27.
10. THE FINAL WILL NOT BE SIGNED UNTIL THE NEW WELLS ARE DRILLED AND THE EXISTING WELL IS ABANDONED.
11. PARCEL 244 (PARCEL 2) WILL BE CONSIDERED A NON-BUILDABLE LOT BY THE HEALTH DEPARTMENT UNTIL THE WELLS FOR BOTH PARCELS 1 AND 2 HAVE BEEN DRILLED IN THEIR APPROVED LOCATION WITH COMPLETION REPORTS APPROVED BY THE HEALTH DEPARTMENT AND THE EXISTING WELL HAS BEEN PROPERLY ABANDONED WITH ABANDONMENT REPORT SUBMITTED TO HEALTH DEPARTMENT. THE SEWERAGE DISPOSAL AREA FOR PARCEL 2 IS NOT APPROVED FOR USE UNTIL THE EXISTING WELL LESS THAN 100' AWAY IS ABANDONED.



PERC CERTIFICATION
I certify that the location shown on this plan was 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: *Terrell A. Fisher* 11/5/14 Date
Terrell A. Fisher, Professional Land Surveyor No. 16532 Expires 12/13/15

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS,
HOWARD COUNTY HEALTH DEPARTMENT.
Signature of County Health Officer: *Sylvia Marie Rossman* 11/17/2014 DATE
COUNTY HEALTH OFFICER

SOILS LEGEND

| SOIL | NAME | CLASS |
|------|--|-------|
| BeB | Benevola silt loam, 3 to 8 percent slopes | B |
| Co | Codorus and Hatboro silt loam, 0 to 3 percent slopes | C |
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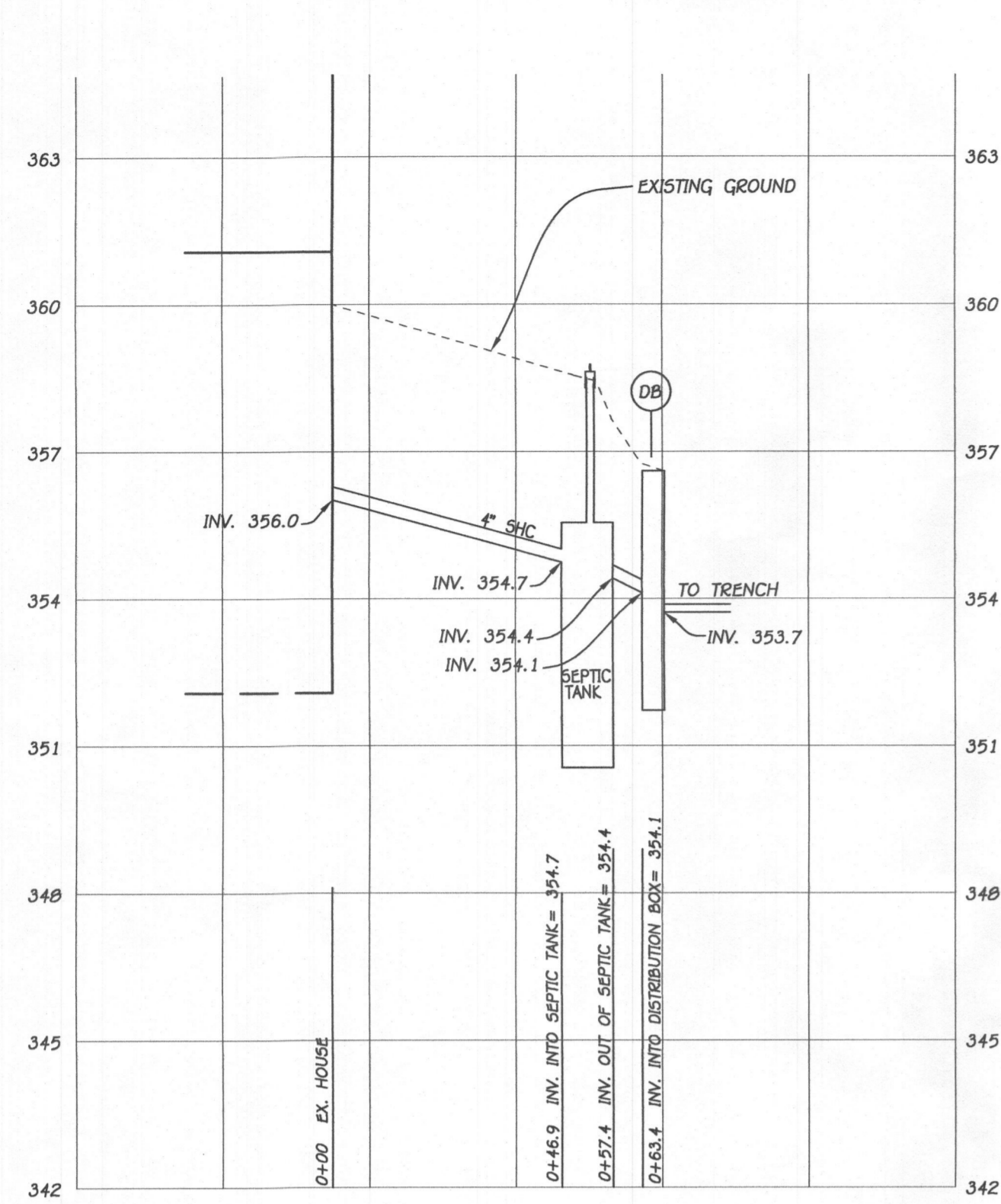
PERCOLATION CERTIFICATION PLAN
LIME KILN ROAD &
12671 LIME KILN ROAD

TAX MAP #40 GRID #23 PARCELS: 244 (1ST & 2ND PARCEL)
FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: 1"=50' DATE: NOVEMBER 5, 2014

OWNER
TOM & KIM MONROE
12671 LIME KILN ROAD
FULTON, MARYLAND 20759
(301) 776-8256

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
ELLSWORTH CITY, MARYLAND 21042
(410) 461-2895

I:\2013\13014\dwg\12671 Lime Kiln Perc Cert Plan 033014.dwg, 11/15/2014 1:26:56 PM, 1:1



PROFILE VIEW
SCALE: 1"=30'

NOTE
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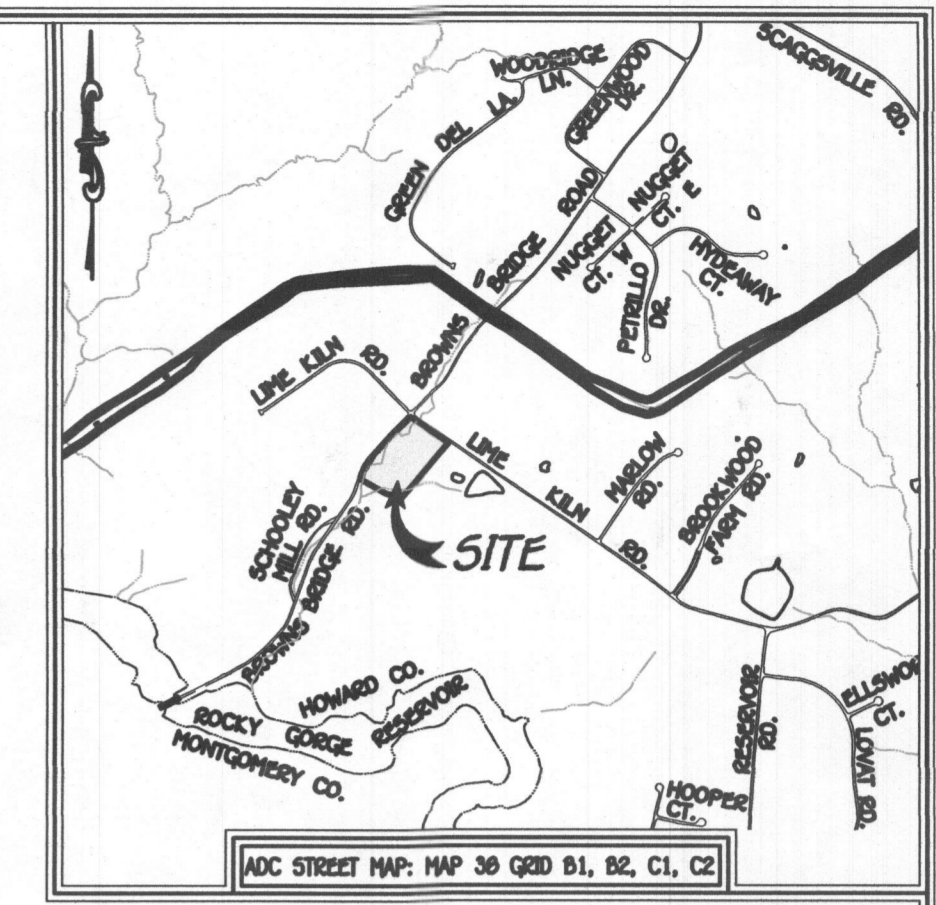
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|--------|--------------|--------------------|-------------------|----------------------------|---------------------|------------------------|----------------------------|---------------------|-----------------------|----------------|
| 1A | 356.0 | 353.5 | 353.0 | 2.5' | 5.5' | 348.0 | 3.0' | 3.0' | 3.0' | 13' |
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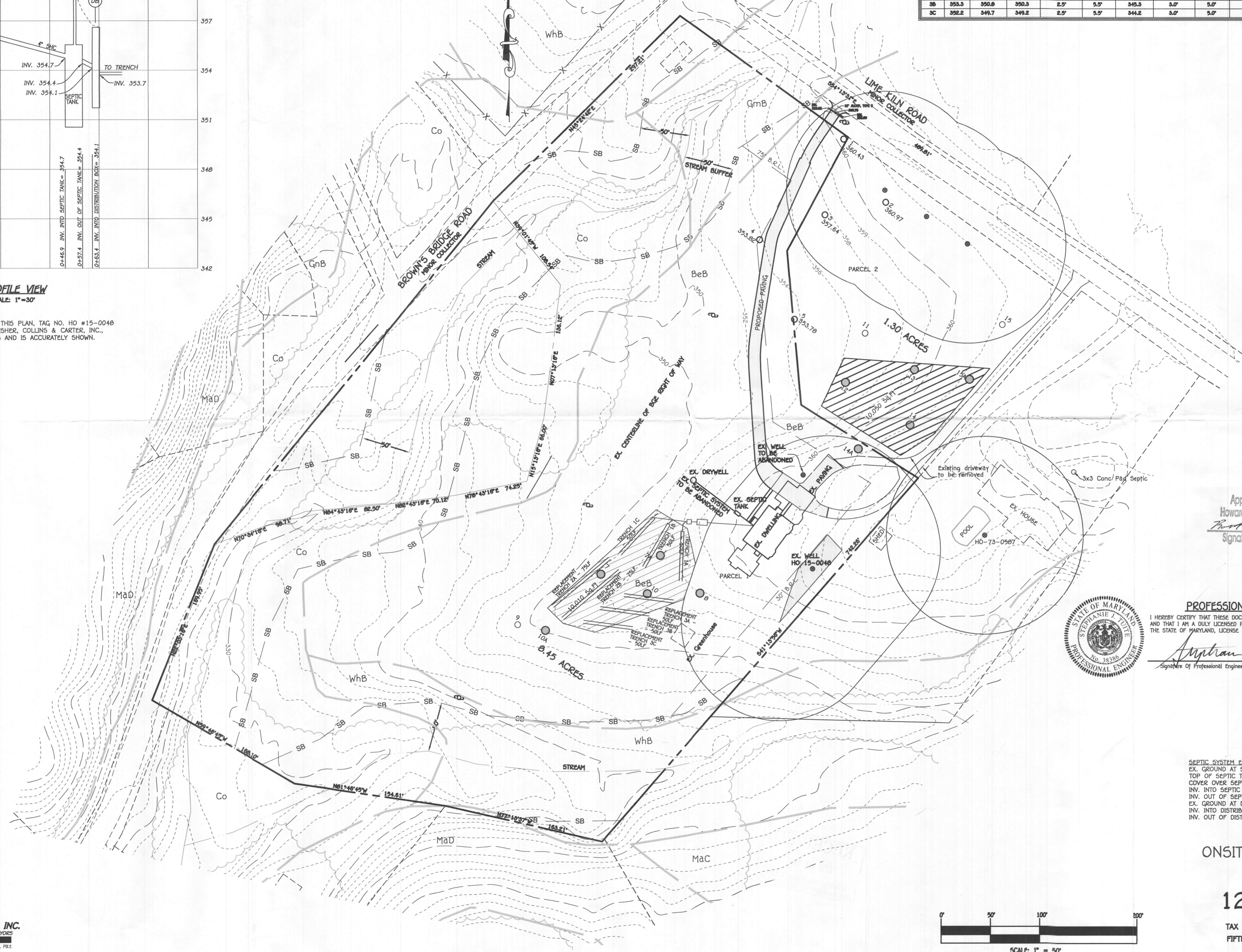
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VICINITY MAP
SCALE: 1" = 2000'

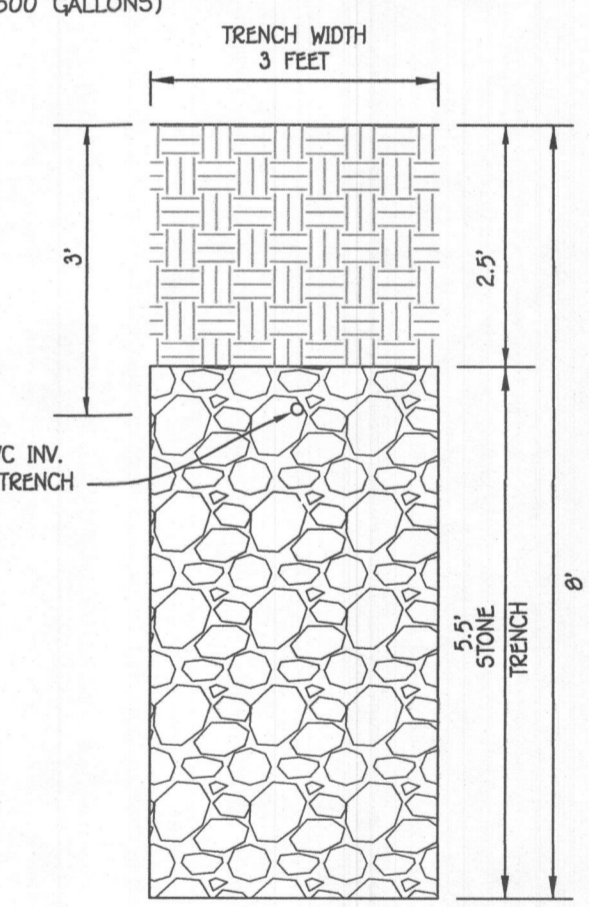
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 - 2 CHAMBER TOP SEAM TANK (1500 GALLONS)



Approved Septic System Plan
Howard County Health Department
Signature 12/21/2016
Date



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. 28386, EXPIRATION DATE: 01/12/2018.
Signature 12/21/16
Date

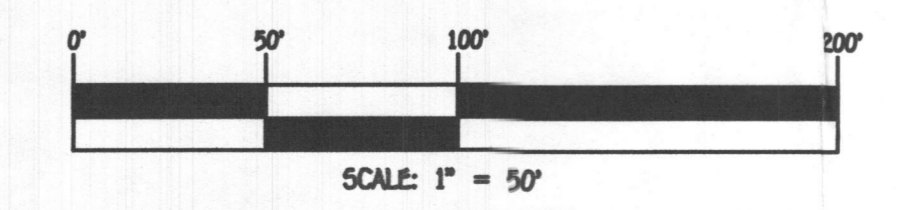


INITIAL TRENCH DETAIL
SCALE: 1"=2'

SEWAGE DISPOSAL SYSTEM DATA
2 BEDROOMS
LOADING RATE = 5 BEDROOMS X 150 GPD/BEDROOM = 750 GPD
(SYSTEM IS DESIGNED FOR POTENTIAL FUTURE BEDROOMS)
APPLICATION RATE = 0.6
EFFECTIVE SIDEWALL DEIGNS AT 3 FEET
TRENCH DEPTH = 0 FEET
TRENCH WIDTH (W) = 3 FEET
EFFECTIVE DEPTH (D) = 5 FEET
SF OF DRAINFIELD = 750 GPD / 0.6 = 1250 SF
COEFFICIENT OF REDUCTION OF TRENCH LENGTH =
(W+2)/(W+1+2D) = (3+2)/(3+1+(2*5)) = 0.357
TRENCH LENGTH = 1250 SF x 0.357 / 3 = 148.8 FEET
(USE 150 FEET)
TRENCH SPACING = 2D+W = (2*5) + 3 = 13 USE 13'

ONSITE SEWAGE DISPOSAL SYSTEM PLAN
LIME KILN ROAD & 12671 LIME KILN ROAD

TAX MAP #40 GRID #23 PARCELS: 244 (1ST & 2ND PARCEL)
FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: 1"=50' DATE: DECEMBER, 2016



OWNER
TOM & KIM MONROE
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