



# HOWARD COUNTY HEALTH DEPARTMENT

62441

DATE 7/15/18

Received From

Ligney Septic & Excavation

PHONE #

For

Septic Permit  
11111 Milk Hollow Road

CASH

CHECK

NO.

4492

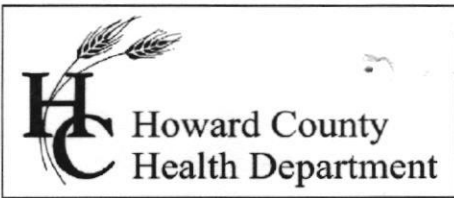
Three thousand & ninety two - 00/100 Dollars

\$

3920.00

Received By

V. DeKorby



**Bureau of Environmental Health**  
 8930 Stanford Boulevard, Columbia, MD 21045  
 Main: 410-313-2640 | Fax: 410-313-2648  
 TDD 410-313-2323 | Toll Free 1-866-313-6300  
[www.hchealth.org](http://www.hchealth.org)  
 Facebook: [www.facebook.com/hocohealth](http://www.facebook.com/hocohealth)

Maura J. Rossman, M.D., Health Officer

RECEIPT DATE: 2/15/18 **ONSITE SEWAGE DISPOSAL SYSTEM** P \_\_\_\_\_

APPROVAL DATE: 3/1/18 **PERMIT: CONSTRUCTION** A 562441

PROPERTY ADDRESS: 6871 Mink Hollow Road

SUBDIVISION: \_\_\_\_\_ LOT: \_\_\_\_\_ TAX ID: \_\_\_\_\_

CONTRACTOR: Legacy Septic and Excavating EMAIL: \_\_\_\_\_

CONTRACTOR ADDRESS: 1538 Manchester Road, Westminster, MD 21157 PHONE: 410-840-8766

PROPERTY OWNER: Joseph Smith Jr. EMAIL: \_\_\_\_\_

OWNER ADDRESS: 6871 Mink Hollow Road PHONE: 443-829-8766

SEPTIC TANK SIZE (GALLONS): 2000 TANK MANUFACTURER: Baystar

PUMP MODEL: N/A PUMP SIZE N/A PUMP TANK CAPACITY: N/A

DISTRIBUTION SYSTEM:  GRAVITY  PRESSURE DOSED BEDROOMS: 6 APPLICATION RATE: \_\_\_\_\_

TRENCHES:	LINEAR FEET REQUIRED: <u>157</u>	INLET DEPTH: <u>4</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>8</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>10</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>4</u>
LOCATION:	<b>PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND TANK LOCATIONS MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.</b>	
NOTES:	Existing septic tank and two drywells must be pumped and abandoned. Future replacement systems will require a pump tank.	

ISSUED BY: Sarah Collins ISSUE DATE: 3/8/18 EXPIRATION DATE: 3/8/19

- NOTE: CONTRACTOR MUST SCHEDULE A PRE-CONSTRUCTION INSPECTION PRIOR TO BEGINNING ANY INSTALLATION**
- NOTE: CONTRACTOR MUST SCHEDULE AN INSPECTION AND GAIN APPROVAL OF ALL COMPONENTS PRIOR TO COVERING
- NOTE: STONE MUST BE APPROVED BY HEALTH DEPARTMENT AND GRAVEL TICKET MUST BE AVAILABLE FOR REVIEW.
- NOTE: WATERTIGHT TANKS REQUIRED
- NOTE: ALL PARTS OF SEPTIC SYSTEM SHALL BE AT LEAST 100 FEET DOWNGRADIENT FROM ANY WATER WELL
- NOTE: MANHOLE RISERS REQUIRED ON ALL SEPTIC TANKS AND PUMP CHAMBERS
- NOTE: AN ELECTRICAL PERMIT IS REQUIRED FOR INSTALLATION OF ANY ELECTRICAL COMPONENTS OF THE SYSTEM**  
 ELECTRICAL PERMIT ISSUED E N/A
- NOTE: MDE RECOMMENDS SEPTIC TANKS, BAT, AND OTHER PRETREATMENT UNITS BE PUMPED AT A FREQUENCY ADEQUATE TO ENSURE THAT SOLIDS ARE NOT DISCHARGED TO THE DISPOSAL AREA**

**NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM.**

**PERMITTEE RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT.**

**CALL 410-313-1771 TO SCHEDULE INSPECTIONS.**

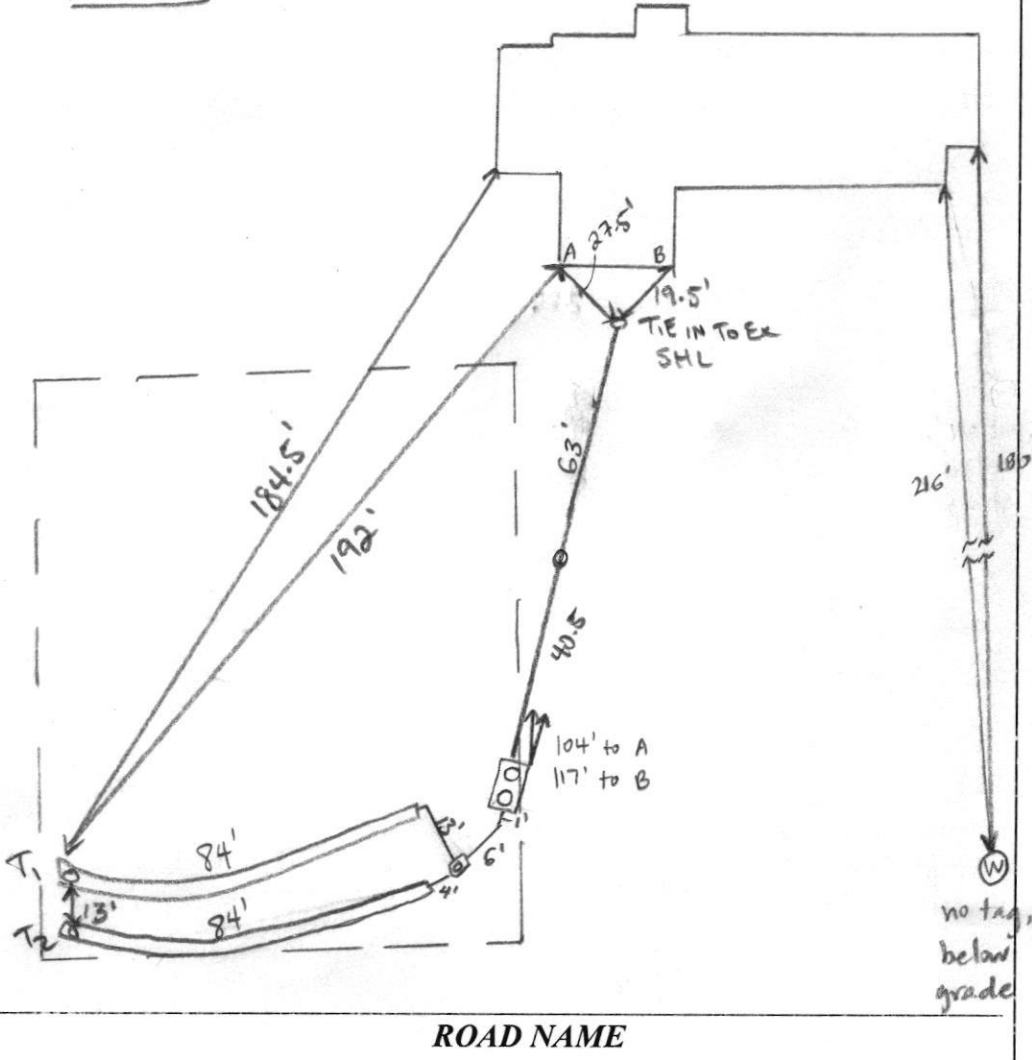
$$\frac{150 \times 6}{0.8} \div 3 = 375'$$

$$\frac{3 \times 2}{3 \times 1 + 7}$$

$$\frac{5}{11} \times 45 \rightarrow 170' \text{ for } 4.5' \text{ inlet}$$

NOT TO SCALE

1" = 40'



TRENCH/DRAINFIELD DATA		
WIDTH	INLET	BOTTOM
3'	4'	8'
NUMBER OF TRENCHES		2
TOTAL LENGTH		168'
ABSORPTION AREA		504 sq ft + SW
DISTRIBUTION BOX LEVEL		yes
DISTRIBUTION BOX BAFFLE		yes
DISTRIBUTION BOX PORT		yes

SEPTIC TANK DATA	
SEPTIC TANK 1 LEVEL	YES
MANUFACTURER	BAYSTAR
CAPACITY	2000 GAL
SEAM LOC	TOP
TANK LID DEPTH	3'
BAFFLES	Yes
BAFFLE FILTER	NO
MANHOLE LOC	FRONT + REAR
6" PORT LOC	NONE
WATERTIGHT TEST	NO
SLOTTED	YES
DATE ON LID	---

PUMP/SEPTIC TANK LEVEL	
MANUFACTURER	---
CAPACITY	--- GAL
SEAM LOC	---
TANK LID DEPTH	---
BAFFLES	---
BAFFLE FILTER	---
MANHOLE LOC	---
6" PORT LOC	---
WATERTIGHT TEST	---
SLOTTED	---
DATE ON LID	---

PRE-CONSTRUCTION:

Ⓟ [See 1<sup>st</sup> copy of permit for 2/15/18 notes] 3/8/18 Legacy dug up pipe @ house - shot elevations and determined tank @ proposed location will have 3' cover with 170 fall in pipe. Ⓞ 3/8/18 Shot contour - laid out 2x80' trenches. OK for T1 to have 4.5' inlet. Ⓞ

INSTALLATION:

3/8/18 Tank set w/ 3' cover. Ⓞ 3/9/18 (AM) Trench 1 complete. Effluent line installed to tank. Soil was Sandy Loam. OK to backfill. Ⓞ 3/9/18 (PM) Ex Dws Pumped. Ex ST Abandoned in AM. T2 completed. Levelled D box. OK to backfill. Ⓞ

FINAL INSPECTOR

DATE OF APPROVAL

3/9/18

**LEGEND**

390 Existing Grade

◆ A=ELEV.387.00 PROPOSED PERCOLATION TEST HOLE LOCATION

**Gbc SOILS** SOIL BOUNDARY LINE

**Gbb SOILS** SOIL CLASSIFICATION

EXISTING 1,500 GALLON SEPTIC TANK

PROPOSED 2,000 GALLON SEPTIC TANK

EXISTING 1,500 S.F. WELL ZONE

EXISTING WELL

PRIVATE SEPTIC AREA

**"MDE SEWAGE EASEMENT STATEMENT"**

"THIS AREA DESIGNATES A PRIVATE SEWAGE EASEMENT OF AT LEAST 10,000 SQUARE FEET AS REQUIRED BY THE MARYLAND DEPARTMENT OF ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED. THIS EASEMENT 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 SEWAGE EASEMENT. RECORDATION OF A REVISED EASEMENT SHALL NOT BE NECESSARY."

**PURPOSE NOTE:**

THE PURPOSE OF THIS PLAN IS TO REVISE THE EXISTING SEPTIC AREA. THIS REVISION IS TO ALLOW FOR THE RELOCATION OF SEPTIC AREA FOR A HOUSE ADDITION TO BE PLACED ON SITE.

**TOPOGRAPHY NOTE:**

THE TOPOGRAPHY SHOWN ON THESE PLANS IS FIELD RUN AND VERIFIED BY KING'S POINT SURVEYS, INC. AND MAF & ASSOCIATES, LLC

**WELL LOCATION NOTE:**

ALL EXISTING WELLS ON THE SUBJECT PROPERTY AND WITHIN 100 FEET OF SUBJECT PROPERTY BOUNDARIES ARE REPRESENTED TO THE BEST OF MY KNOWLEDGE AND BELIEF.

**NOTE:**

THE LOT SHOWN HEREIN COMPLIES WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND DEPARTMENT OF ENVIRONMENT.

**BOUNDARY AND LOCATION NOTE:**

THE LOT BOUNDARY IS TAKEN FROM THE FINAL PLAT NUMBER 16996. THE HOUSE AND SEPTIC AREA LOCATION ARE TAKEN FROM THE PREVIOUSLY APPROVED SITE DEVELOPMENT PLAN.

**CERTIFICATION OF COMPLIANCE WITH OWNERSHIP WIDTH AND LOT AREA REQUIREMENTS FOR LOTS CREATED AFTER 1985.**

THE LOT SHOWN HEREIN COMPLIES WITH THE MINIMUM WIDTH AND LOT AREA REQUIREMENTS FOR LOT AREA AS REQUIRED BY MARYLAND DEPARTMENT OF ENVIRONMENT.

**SEPTIC SYSTEM NOTE**

THE NEW SEPTIC SYSTEM WILL BE INSTALLED AND THE OLD SYSTEM WILL BE ABANDONED PRIOR TO BUILDING PERMIT APPROVAL.

**SEPTIC TRENCH DESIGN NOTE**

THE SEPTIC TRENCHES SHOWN ON THIS PLAN WERE SIZED BASED ON 6 BEDROOMS, A LOADING RATE OF 0.8 AND A SIDEWALL REDUCTION 0.4167 FOR THE INITIAL REPLACEMENT TRENCHES AND A LOADING RATE OF 1.2 AND A SIDEWALL REDUCTION 0.4167 FOR THE 1ST AND 2ND REPLACEMENT TRENCHES.

**SEPTIC TRENCH DESIGN CALCULATION**

INITIAL TRENCHES  
 $6 \times 150 = 750 = 250 \times 0.4167 = 104$  LINEAR FEET  
 1.20  
 3

1ST REPLACEMENT TRENCHES  
 $6 \times 150 = 750 = 250 \times 0.4167 = 104$  LINEAR FEET  
 1.20  
 3

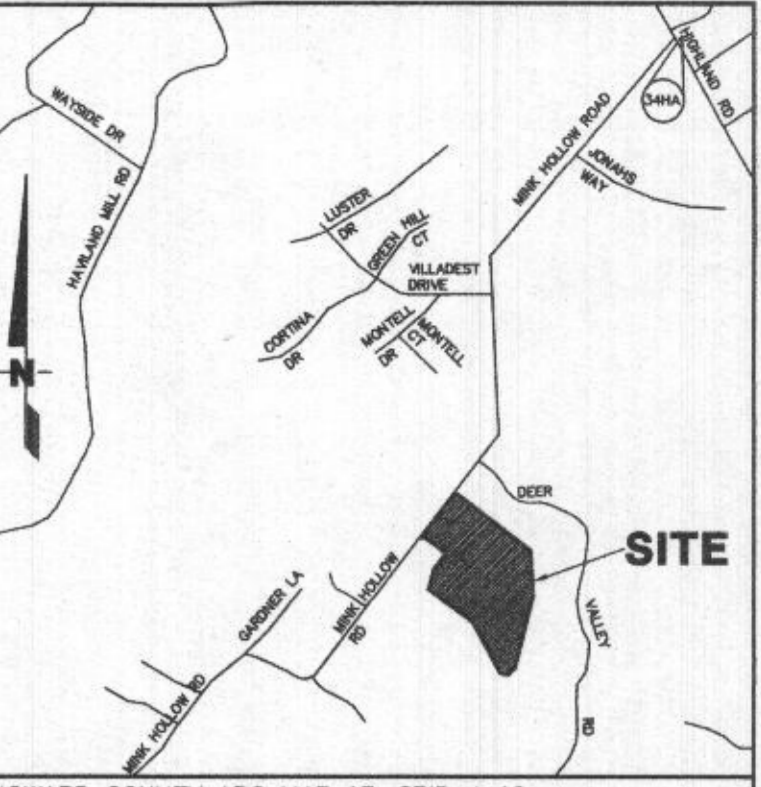
2ND REPLACEMENT TRENCHES  
 $6 \times 150 = 1,125 = 375 \times 0.4167 = 157$  LINEAR FEET  
 1.20  
 3

**SEPTIC SYSTEM INFORMATION**

INV. OUT OF HOUSE.....508.00  
 INV. IN SEPTIC TANK.....507.08  
 INV. OUT OF SEPTIC TANK.....506.83  
 TOP OF SEPTIC TANK.....507.63  
 GROUND ELEV. OVER SEPTIC TANK.....511.00  
 INV. IN DIST. BOX.....506.69  
 INV. OUT OF DIST. BOX.....506.59  
 GROUND ELEV. OVER DIST. BOX.....510.50

**SEPTIC TRENCH INFORMATION**

TRENCH 1-1	TRENCH LENGTH	78.50 LIN. FT.
	GROUND ELEVATION	510.13
	INVERT ELEVATION	506.13
	MAX. BOTTOM ELEVATION	502.13
TRENCH 1-2	TRENCH LENGTH	78.50 LIN. FT.
	GROUND ELEVATION	510.52
	INVERT ELEVATION	506.52
	MAX. BOTTOM ELEVATION	504.52
TRENCH 2-1	TRENCH LENGTH	52 LIN. FT.
	GROUND ELEVATION	511.50
	INVERT ELEVATION	507.50
	MAX. BOTTOM ELEVATION	503.50
TRENCH 2-2	TRENCH LENGTH	52 LIN. FT.
	GROUND ELEVATION	511.90
	INVERT ELEVATION	507.90
	MAX. BOTTOM ELEVATION	503.90
TRENCH 3-1	TRENCH LENGTH	52 LIN. FT.
	GROUND ELEVATION	512.50
	INVERT ELEVATION	508.50
	MAX. BOTTOM ELEVATION	504.50
TRENCH 3-2	TRENCH LENGTH	52 LIN. FT.
	GROUND ELEVATION	513.00
	INVERT ELEVATION	509.00
	MAX. BOTTOM ELEVATION	505.00



HOWARD COUNTY ADC MAP 13, GRID J-12  
**VICINITY MAP**  
 SCALE: 1" = 2,000'

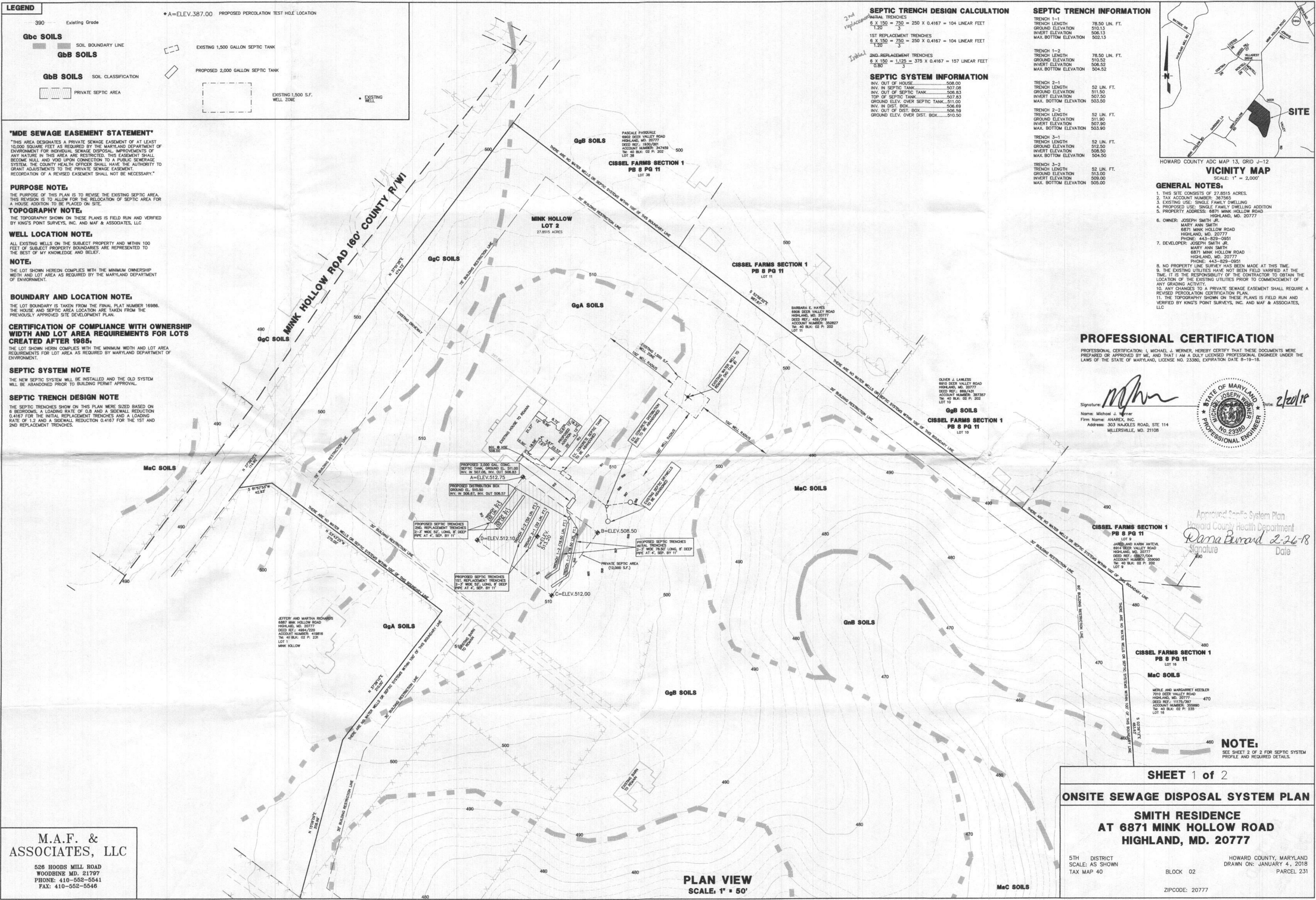
- GENERAL NOTES:**
- THIS SITE CONSISTS OF 27,8515 ACRES.
  - TAX ACCOUNT NUMBER: 387565
  - EXISTING USE: SINGLE FAMILY DWELLING
  - PROPOSED USE: SINGLE FAMILY DWELLING ADDITION
  - PROPERTY ADDRESS: 6871 MINK HOLLOW ROAD, HIGHLAND, MD. 20777
  - OWNER: JOSEPH SMITH JR., MARY ANN SMITH, 6871 MINK HOLLOW ROAD, HIGHLAND, MD. 20777, PHONE: 443-828-0951
  - DEVELOPER: JOSEPH SMITH JR., MARY ANN SMITH, 6871 MINK HOLLOW ROAD, HIGHLAND, MD. 20777, PHONE: 443-828-0951
  - NO PROPERTY LINE SURVEY HAS BEEN MADE AT THIS TIME. THE EXISTING UTILITIES HAVE NOT BEEN FIELD VERIFIED AT THE TIME. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN THE LOCATION OF THE EXISTING UTILITIES PRIOR TO COMMENCEMENT OF ANY GRADING ACTIVITY.
  - ANY CHANGES TO A PRIVATE SEWAGE EASEMENT SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
  - THE TOPOGRAPHY SHOWN ON THESE PLANS IS FIELD RUN AND VERIFIED BY KING'S POINT SURVEYS, INC. AND MAF & ASSOCIATES, LLC

**PROFESSIONAL CERTIFICATION**

PROFESSIONAL CERTIFICATION: I, MICHAEL J. WERNER, 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. 23380, EXPIRATION DATE 8-19-16.

Signature: *[Signature]* Date: 2/26/18

Name: Michael J. Werner  
 Firm Name: ANAREX, INC.  
 Address: 303 HAULEES ROAD, STE 114  
 MILLERSVILLE, MD. 21108



Approved Septic System Plan  
 Howard County Health Department  
*[Signature]*  
 Date: 2-26-18

**M.A.F. & ASSOCIATES, LLC**

526 HOODS MILL ROAD  
 WOODBINE MD. 21797  
 PHONE: 410-552-5541  
 FAX: 410-552-5546

**SHEET 1 of 2**

**ONSITE SEWAGE DISPOSAL SYSTEM PLAN**

**SMITH RESIDENCE  
 AT 6871 MINK HOLLOW ROAD  
 HIGHLAND, MD. 20777**

5TH DISTRICT SCALE: AS SHOWN TAX MAP 40 BLOCK 02 ZIPCODE: 20777

HOWARD COUNTY, MARYLAND DRAWN ON: JANUARY 4, 2018 PARCEL 231

**PLAN VIEW**  
 SCALE: 1" = 50'

MATCHLINE SEE SHEET 1 OF 2 FOR CONTINUATION

**LEGEND**

--- 390 --- Existing Grade

**Gbc SOILS**  
SOIL BOUNDARY LINE

**Gbb SOILS**  
SOIL CLASSIFICATION

PRIVATE SEPTIC AREA

• A=ELEV.387.00 PROPOSED PERCOLATION TEST HOLE LOCATION

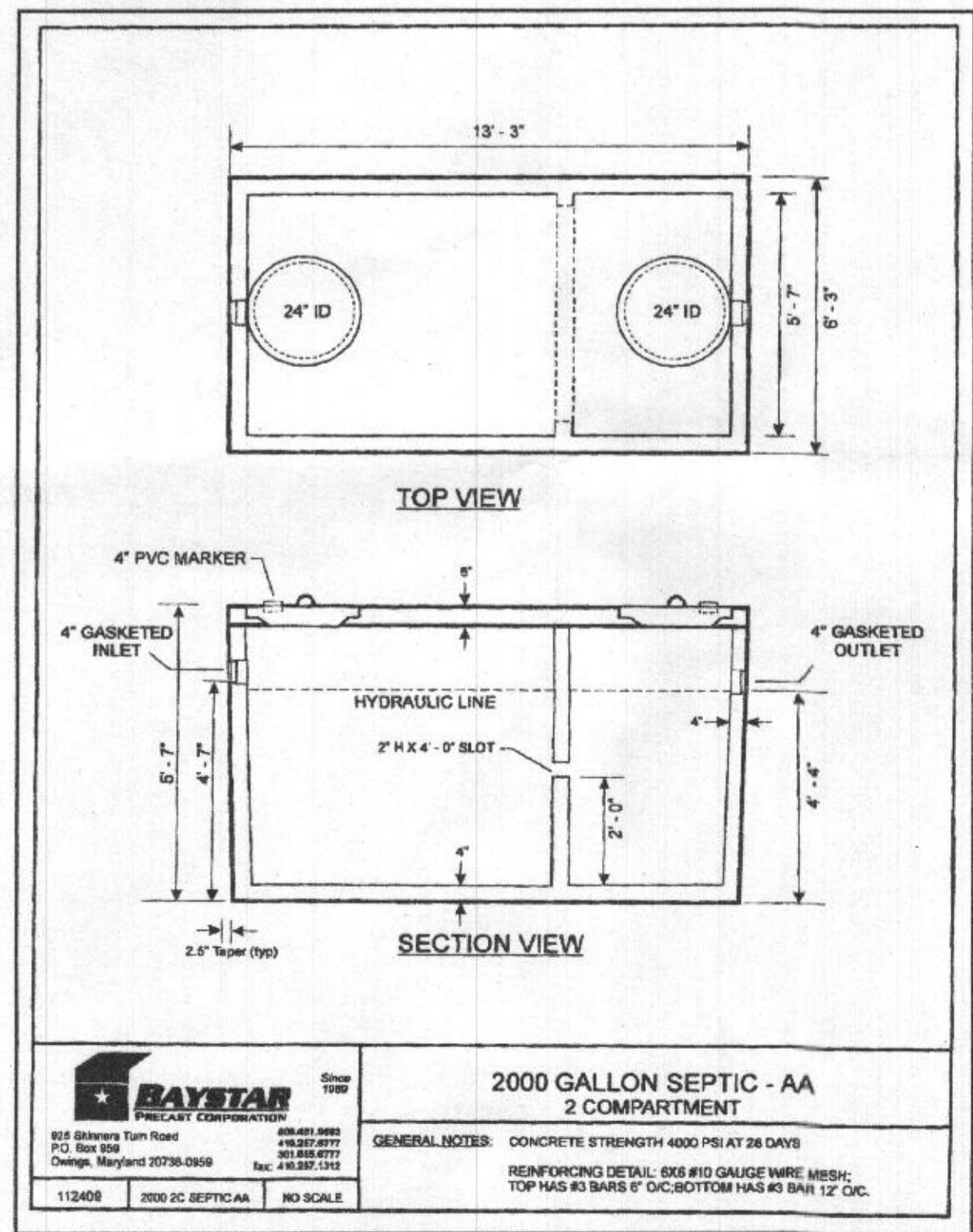
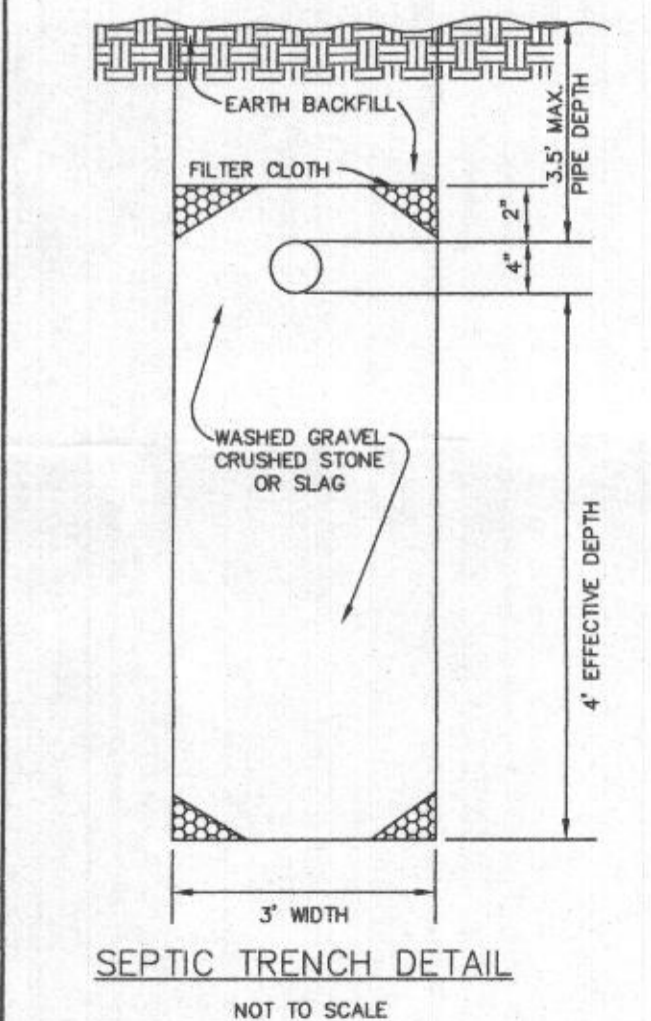
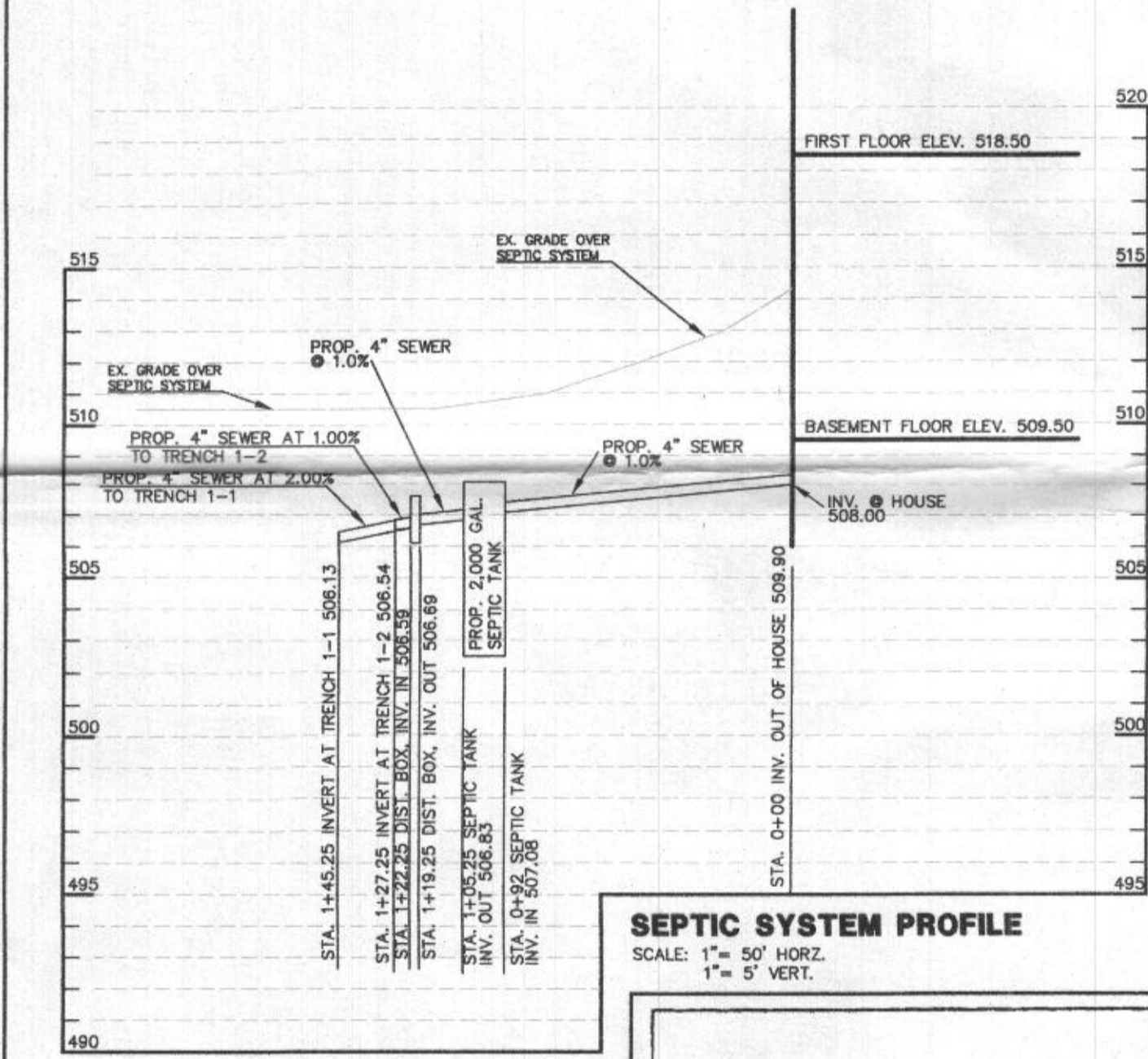
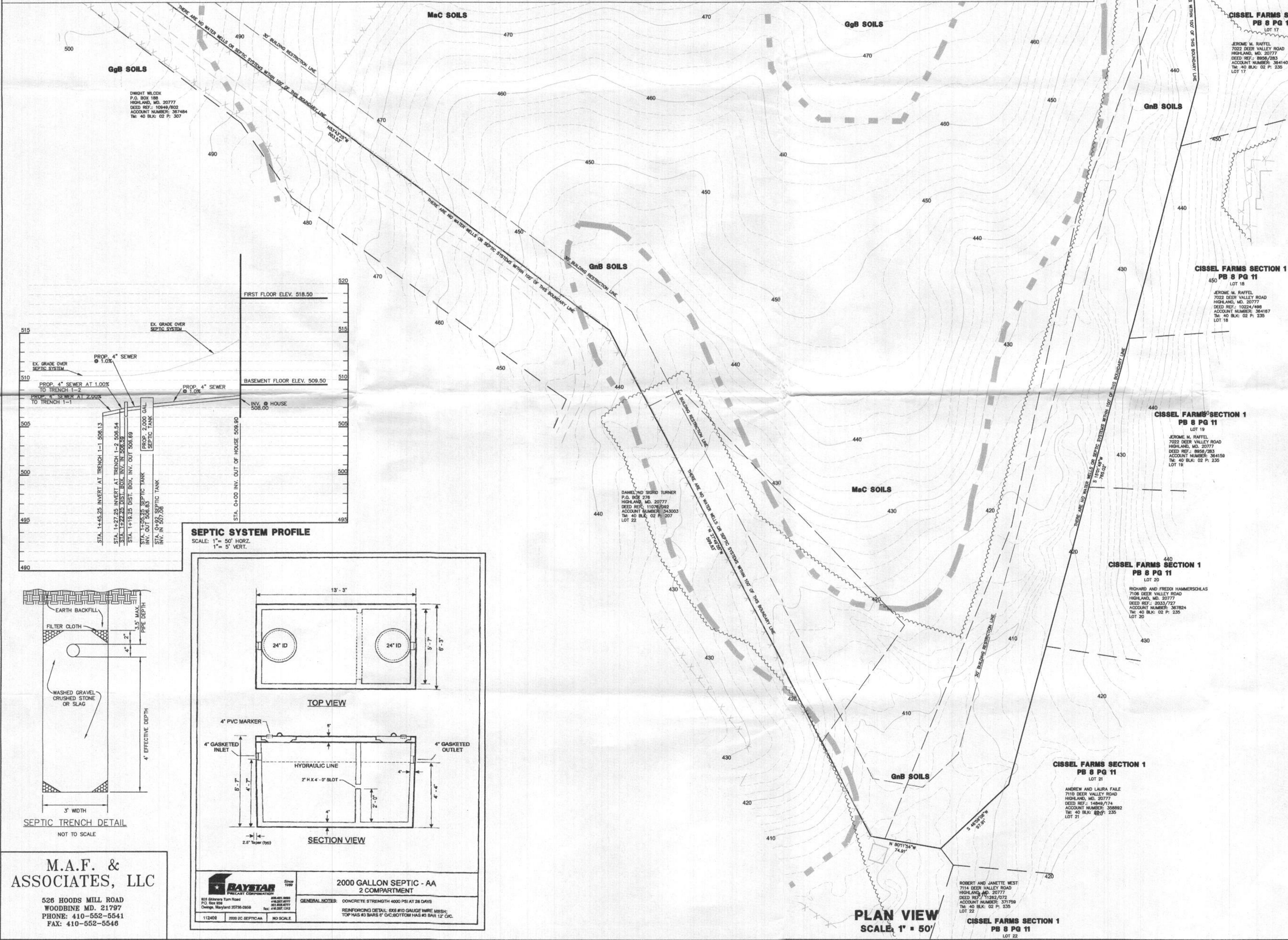
EXISTING 1,500 GALLON SEPTIC TANK

PROPOSED 2,000 GALLON SEPTIC TANK

EXISTING 1,500 S.F. WELL ZONE

• EXISTING WELL

MATCHLINE SEE SHEET 1 OF 2 FOR CONTINUATION



**M.A.F. & ASSOCIATES, LLC**  
526 HOODS MILL ROAD  
WOODBINE MD. 21797  
PHONE: 410-552-5541  
FAX: 410-552-5546

**PROFESSIONAL CERTIFICATION**  
PROFESSIONAL CERTIFICATION: I, MICHAEL J. WERNER, 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. 23380, EXPIRATION DATE 8-19-18.

Signature: *[Signature]*  
Name: Michael J. Werner  
Firm Name: ANAREX, INC.  
Address: 303 NAJOKES ROAD, STE 114  
MILLERSVILLE, MD. 21108

STATE OF MARYLAND  
MICHAEL JOSEPH WERNER  
No. 23380  
PROFESSIONAL ENGINEER

Date: 2/20/18

**SHEET 2 of 2**

**ONSITE SEWAGE DISPOSAL SYSTEM PLAN**

**SMITH RESIDENCE  
AT 6871 MINK HOLLOW ROAD  
HIGHLAND, MD. 20777**

5TH DISTRICT  
SCALE: AS SHOWN  
TAX MAP 40

HOWARD COUNTY, MARYLAND  
DRAWN ON: JANUARY 4, 2018  
PARCEL 231

BLOCK 02

ZIP CODE: 20777

