

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
 Facebook: www.facebook.com/hocohealth

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

RECEIPT DATE: 9/23/19 **ONSITE SEWAGE DISPOSAL SYSTEM** P 566379

APPROVAL DATE: 10/11/2019 **PERMIT: CONSTRUCTION** A _____

PROPERTY ADDRESS: 12020 Hall Shop Road

SUBDIVISION: Kazue Property LOT: _____ TAX ID: _____

CONTRACTOR: Hatfield's Equipment EMAIL: ken@hatfieldsequipment.com

CONTRACTOR ADDRESS: P.O. Box 519, Annapolis Junction, MD 21701 PHONE: 301-490-4289

PROPERTY OWNER: Takashi Kazue EMAIL: _____

OWNER ADDRESS: 12020 Hall Shop Road, Clarksville, MD 21029 PHONE: 410-852-4154

SEPTIC TANK SIZE (GALLONS): 2000 TANK MANUFACTURER: Mayer Bros Inc.

PUMP MODEL: _____ PUMP SIZE _____ PUMP TANK CAPACITY: _____

DISTRIBUTION SYSTEM: GRAVITY PRESSURE DOSED BEDROOMS: 4 APPLICATION RATE: 0.6

TRENCHES:	LINEAR FEET REQUIRED: <u>167</u>	INLET DEPTH: <u>2.31</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>8</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>10</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>5</u>
LOCATION:	PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND TANK LOCATIONS MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.	
NOTES:	2 x 84' trenches	

ISSUED BY: Hank Oswald ISSUE DATE: 9/23/19 EXPIRATION DATE: 9/23/20

- 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 DOWNGRADE 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.

NOT TO SCALE

TRENCH/DRAINFIELD DATA

WIDTH 3' INLET 2.5' BOTTOM 8'

NUMBER OF TRENCHES 2

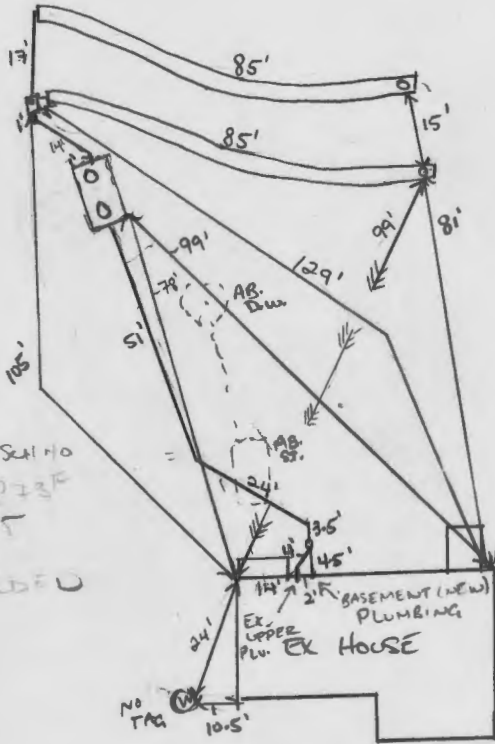
TOTAL LENGTH 170 F

ABSORPTION AREA 510 SF + SIDE WALL

DISTRIBUTION BOX LEVEL SPEED

DISTRIBUTION BOX BAFFLE YES

DISTRIBUTION BOX PORT YES



PIPE SPEC

4" PVC-1120 SCH 40
PR 200 PSI R73P
ASTM D1785

* SOLVENT WELDED

SEPTIC TANK DATA

SEPTIC TANK 1 LEVEL _____

MANUFACTURER BABYLON

CAPACITY 2000 GAL

SEAM LOC TOP

TANK LID DEPTH 3in - 2.5in

BAFFLES YES

BAFFLE FILTER NO

MANHOLE LOC FRONT/BACK

6" PORT LOC _____

WATERTIGHT TEST _____

SLOTTED YES

DATE ON LID 08/16/2019

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 _____

ROAD NAME

HALL SHOP ROAD

PRE-CONSTRUCTION:

10/09/2019 TANK AND SDA STAKED. 2x 84' TRENCHES LAID OUT. AREA CUT AND CLEARED FROM TREES. EX TANK AND DW TO BE ABANDONED AFTER INSTALL. CALL IF FALL IS BAD @

INSTALLATION: 10/10/2019 TANK SET. FALL CONFIRMED FROM UNDER FOOTER. D BOX SET. LOWER TRENCH CONSTRUCTION. PROXIMAL END IS ABOUT 2' INLET. OK. @ 10/11/2019 TRENCHES COMPLETE. D BOX LEVELED WITH SPEED LEVELS. EX ST AND DW PUMPED, COLLAPSED AND FILLED. EXISTING, AND NEW SHC TIED IN AND INSTALLED W/ SCH 40 PVC. BED SHC W/ STONE. BASEMENT PLUMBING UNDER FOOTER. @

FINAL INSPECTOR _____

DATE OF APPROVAL 10/11/2019

Oswald, Hank

From: Oswald, Hank
Sent: Friday, June 07, 2019 9:34 AM
To: Gregory Benefiel
Subject: RE: Perc Cert Plan_12020 Hall Shop Road

Hi Greg:

Upon co-review with my supervisor, we picked up on a discrepancy between the elevations on septic profile and the elevation over the line leaving the house on the drawing. The septic profile shows an approximate elevation of 484/485 and a ground elevation on the drawing at approximately 489/490. Are they planning to regrade the area? If so, then you will need to show it on the drawing. Additionally, how did you obtain the exact invert @ house elevation of 481.70? Did they excavate the line and measure down?

Thanks,

Hank

From: Gregory Benefiel <surveysinc@verizon.net>
Sent: Wednesday, June 05, 2019 10:42 AM
To: Oswald, Hank <hoswald@howardcountymd.gov>
Subject: Re: Perc Cert Plan_12020 Hall Shop Road

[Note: This email originated from outside of the organization. Please only click on links or attachments if you know the sender.]

Hank,

That's fine, could you PDF us a copy. Now does kasue need a Site plan for a Septic permit?

Thanks
Greg Benefiel
Survey's, Inc.
301-776-0561

-----Original Message-----

From: Oswald, Hank <hoswald@howardcountymd.gov>
To: Gregory Benefiel <surveysinc@verizon.net>
Sent: Wed, Jun 5, 2019 7:46 am
Subject: RE: Perc Cert Plan_12020 Hall Shop Road

Hi Greg:

Good morning. I would like to redline two changes to the PC prior to submitting the plan for signature.

1. Strike line through "in conformance with the Master Plan of Howard County" in signature block.
2. Cut off SDA at ends of trenches to eliminate swale per last set of comments.

Please let me know if you're okay with these two changes.

Thanks,

Hank

From: Gregory Benefiel <surveysinc@verizon.net>
Sent: Tuesday, May 28, 2019 1:35 PM
To: Oswald, Hank <hoswald@howardcountymd.gov>
Cc: kazue.takahashi@comcast.net
Subject: Re: Perc Cert Plan_12020 Hall Shop Road

[Note: This email originated from outside of the organization. Please only click on links or attachments if you know the sender.]

Thanks Hank!

Greg

-----Original Message-----

From: Oswald, Hank <hoswald@howardcountymd.gov>
To: Gregory Benefiel <surveysinc@verizon.net>
Sent: Tue, May 28, 2019 1:12 pm
Subject: RE: Perc Cert Plan_12020 Hall Shop Road

Hi Greg:

I apologize for the delayed response. You don't need to show the septic tank specs on the perc cert plan. Otherwise, it looks to be good. Please submit (3) copies for signature.

Thanks,

Hank

From: Gregory Benefiel <surveysinc@verizon.net>
Sent: Wednesday, May 22, 2019 12:03 PM
To: Oswald, Hank <hoswald@howardcountymd.gov>
Cc: kazue.takahashi@comcast.net
Subject: Re: Perc Cert Plan_12020 Hall Shop Road

[Note: This email originated from outside of the organization. Please only click on links or attachments if you know the sender.]

Hi Hank,

Attached is the revised Site Plan. 3rd time, I hope is the charm.

Thanks for giving this a look before submission.

Greg Benefiel
Survey's, Inc.
301-776-0561

-----Original Message-----

From: Oswald, Hank <hoswald@howardcountymd.gov>
To: Gregory Benefiel <surveysinc@verizon.net>
Sent: Tue, May 7, 2019 2:17 pm
Subject: RE: Perc Cert Plan_12020 Hall Shop Road

Hi Greg:

The tank location by hole #2 should be fine.

Thanks,

Hank

From: Gregory Benefiel <surveysinc@verizon.net>
Sent: Wednesday, May 01, 2019 1:24 PM
To: Oswald, Hank <hoswald@howardcountymd.gov>
Subject: Re: Perc Cert Plan_12020 Hall Shop Road

[Note: This email originated from outside of the organization. Please only click on links or attachments if you know the sender.]

Hank,

Attached is another sketch showing possible locations for the septic tank. The "swale" just looks like its a ravine. The drainage area is less than half an acre. Does not look like it conveys water! I was aware to keep the trenches from the ravine, but not the septic tank. We are running out of room for the location of the new septic tank and still keep the existing well, which is my goal. There is room next to where the tank is now, but 10' invert out pipe and distribution box is tight. The other option on the other side of the trenches has more room. Your thoughts?

Thank
Greg

-----Original Message-----

From: Oswald, Hank <hoswald@howardcountymd.gov>
To: 'surveysinc@verizon.net' <surveysinc@verizon.net>
Cc: Takahashi, Kazue <kazue.takahashi@comcast.net>
Sent: Mon, Apr 22, 2019 1:41 pm
Subject: Perc Cert Plan_12020 Hall Shop Road

Hello Greg:

Attached, please find plan review comments for the perc cert plan located on 12020 Hall Shop Road. In addition, please make sure you have all the required notes on plan (see attachment). Should you have any questions, please don't hesitate to ask.

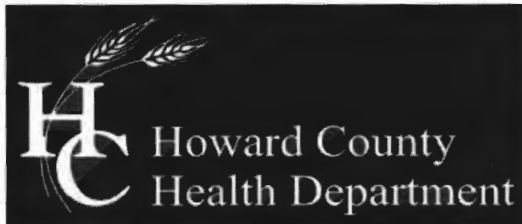
Respectfully,

Hank

Hank Oswald
Licensed Environmental Health Specialist
Howard County Health Department
Bureau of Environmental Health
Well & Septic Program
8930 Stanford Boulevard
Columbia, MD 21045
410.313.1786 (Office)
hoswald@howardcountymd.gov

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Facebook: www.facebook.com/hocohealth

Twitter: HowardCoHealthDep

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

SEWAGE DISPOSAL SYSTEM SPECIFICATIONS WORKSHEET

Address: 12020 Hall Shop Road

Subdivision: map 14 P.280 Lot:

Initial system: Application rate: 0.6 Effective area beginning depth: 5' Bottom maximum depth: 8'
1st Replacement: Application rate: 0.6 Effective area beginning depth: 5' Bottom maximum depth: 8'
2nd Replacement: Application rate: 0.8 Effective area beginning depth: 5' Bottom maximum depth: 8'

Design Flow = 150 gallons per day per bedroom

Design flow + application rate = square footage of drainfield required

Linear length of trench required = drainfield square footage x sidewall reduction percentage + trench width

Sidewall reduction credit formula:

(W + 2) / (W + 1 + 2D) x 100 = Percent of length of standard trench where W=trench width and D= depth between effective area beginning depth and trench bottom.

Standard design requirements:

- All trenches must be equal length unless low pressure dosed
All trenches must be on contour
Minimum trench spacing: 10' for all trenches utilizing sidewall reduction credit. Additional spacing may be necessary for any trench using over 3.5' of effective sidewall. In those cases, the spacing formula is 2D + W up to a maximum spacing of 18'.
Minimum trench spacing for trenches with no sidewall credit (bottom area only) is 6' for a 2' wide trench and 9' for a 3' wide trench (spacing is measured edge to edge)
Maximum trench length is 100'
Maximum pipe depth is 4'

Additional requirements:

Approved: Hank Oswald Date: 2/27/19

LEGEND

These standard symbols will be found in the drawing.

- x EX. ELEVATIONS
- + PROP. ELEVATIONS
- EX. CONTOURS
- PROP. CONTOURS
- EX. WOODLINE

- ED. ROAD
- 25% SLOPES OR GREATER
- PASSING PERC TEST LOCATIONS
- SOILS DELINEATION LINE
- Failed Perc Test Locations

TRENCH DESIGN

Proposed Bedrooms 4 in existing house
 Application Rates: Initial Trench = 0.6
 1st Replacement Trench = 0.6
 2nd Replacement Trench = 0.8

Effective Areas: All Trenches = 3.0'
 Depth of Trenches: All 8.0' deep
 Design Flow = 150 gallons per day (gpd) per bedroom
 Design Flow = 4 x 150 = 600 gpd.
 Square footage of trench required:
 Initial Trench..... 600 gpd/0.6 = 1,000 sf.
 1st Replacement Trench... 600 gpd/0.6 = 1,000 sf.
 2nd Replacement Trench... 600 gpd/0.8 = 750 sf.

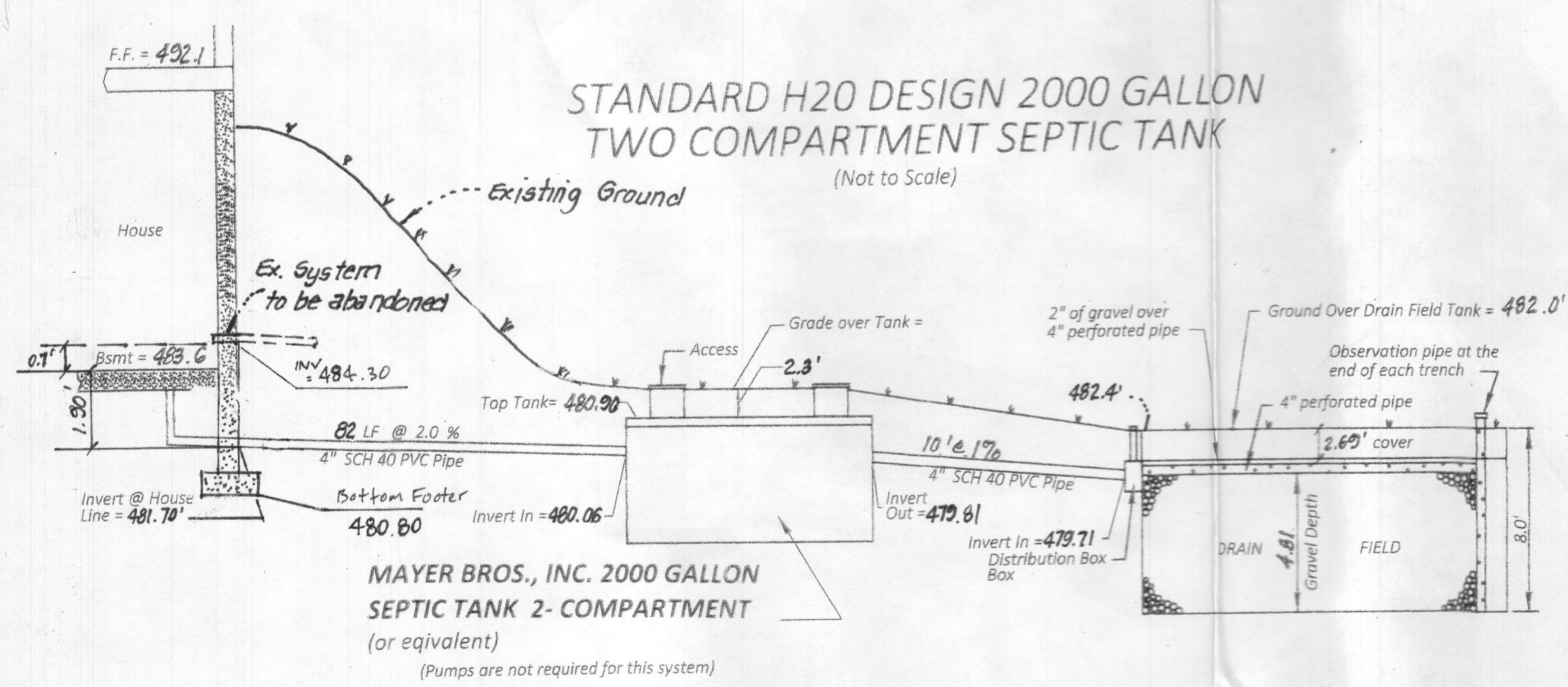
Linear length of trench required:
 Initial Trench = 1000 sf/3' = 333 lf.
 1st Replacement = 1000 sf/3' = 333 lf.
 2nd Replacement = 750 sf/3' = 250 lf.

Sidewall Reduction:
 Initial Trench = 5/10 = 50.0% = 333 lf. x 0.50 = 167 lf.
 1st Replacement = 5/10 = 50.0% = 333 lf. x 0.50 = 167 lf.
 2nd Replacement = 5/10 = 50.0% = 250 lf. x 0.50 = 125 lf.

SEPTIC TRENCH INFORMATION

Depth of Trenches.....8.0'
 Length of Trench: Initial Trench.....167 lf. (2 @ 84')
 1st Replacement Trench.....167 lf. (2 @ 84')
 2nd Replacement Trench.....125 lf. (2 @ 63')

Width of Trench.....3.0'
 Trenches to be 10.0' apart edge to edge for all trenches.
 Invert at Trenches: Initial Trench.....479.71
 1st Replacement Trench.....477.80
 2nd Replacement Trench.....475.20



OWNER/DEVELOPER

Takahashi Kazue
 12020 Hall Shop Road
 Clarksville, MD 21029
 (410) 852-4154

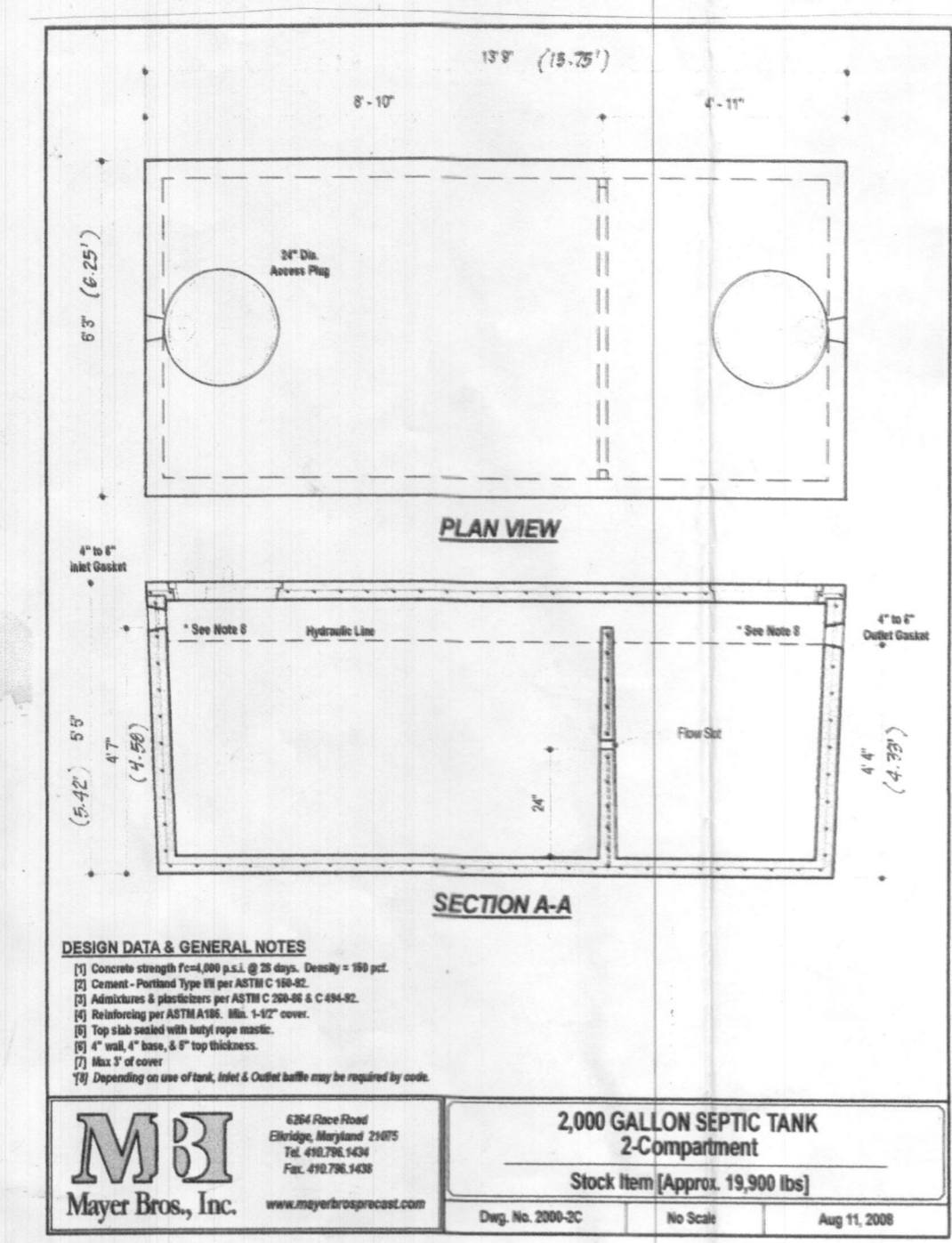
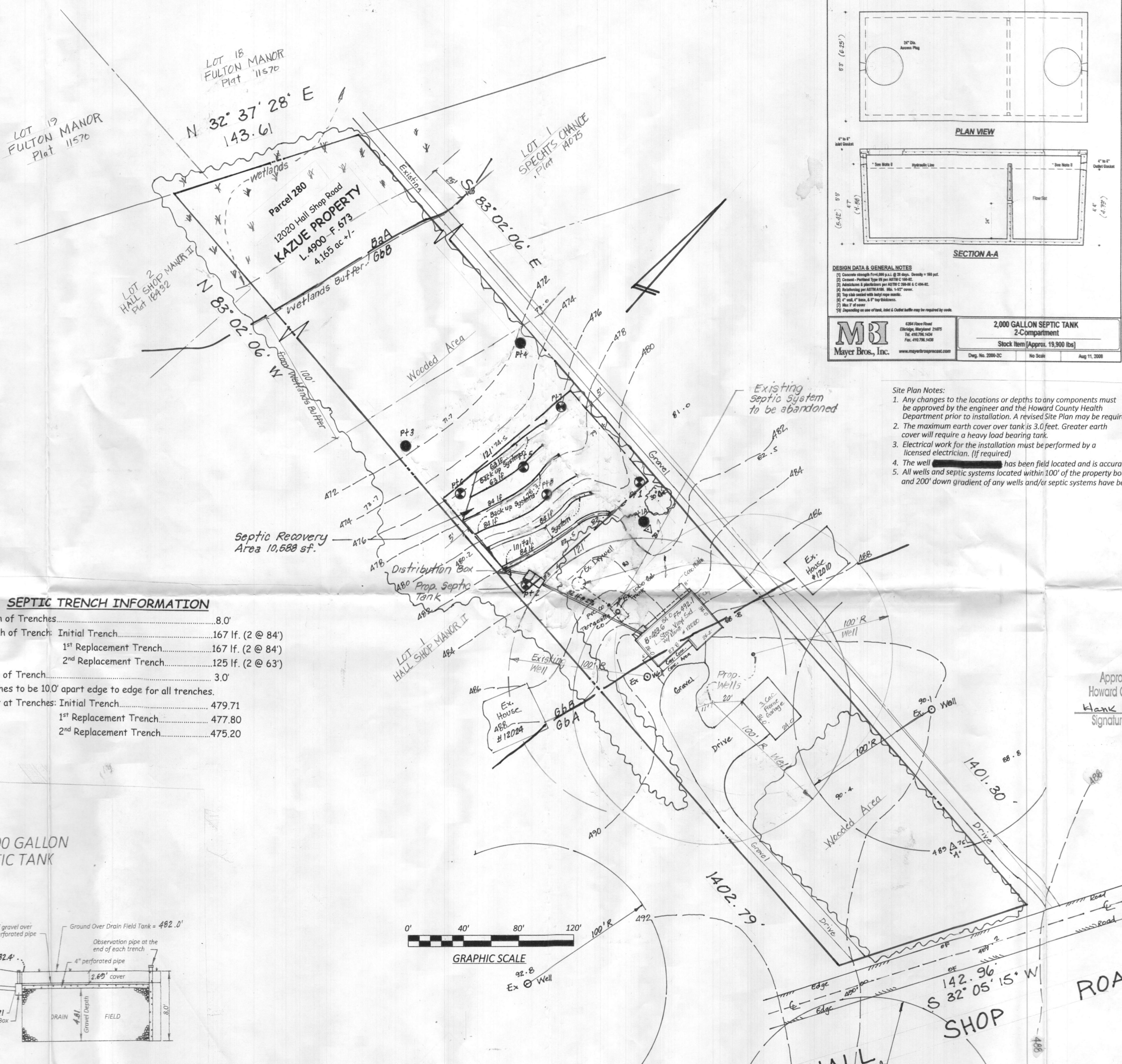
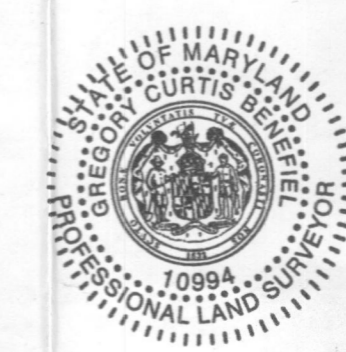
CALL "MISS UTILITY" TELEPHONE NUMBER 1-800-257-7777 FOR UTILITY LOCATIONS AT LEAST 48 HOURS BEFORE BEGINNING CONSTRUCTION.

APPROVED FOR PRIVATE WATER AND SEWERAGE SYSTEMS IN CONFORMANCE WITH THE MASTER PLAN OF HOWARD COUNTY

Health Officer, Howard County Health Dept. Date

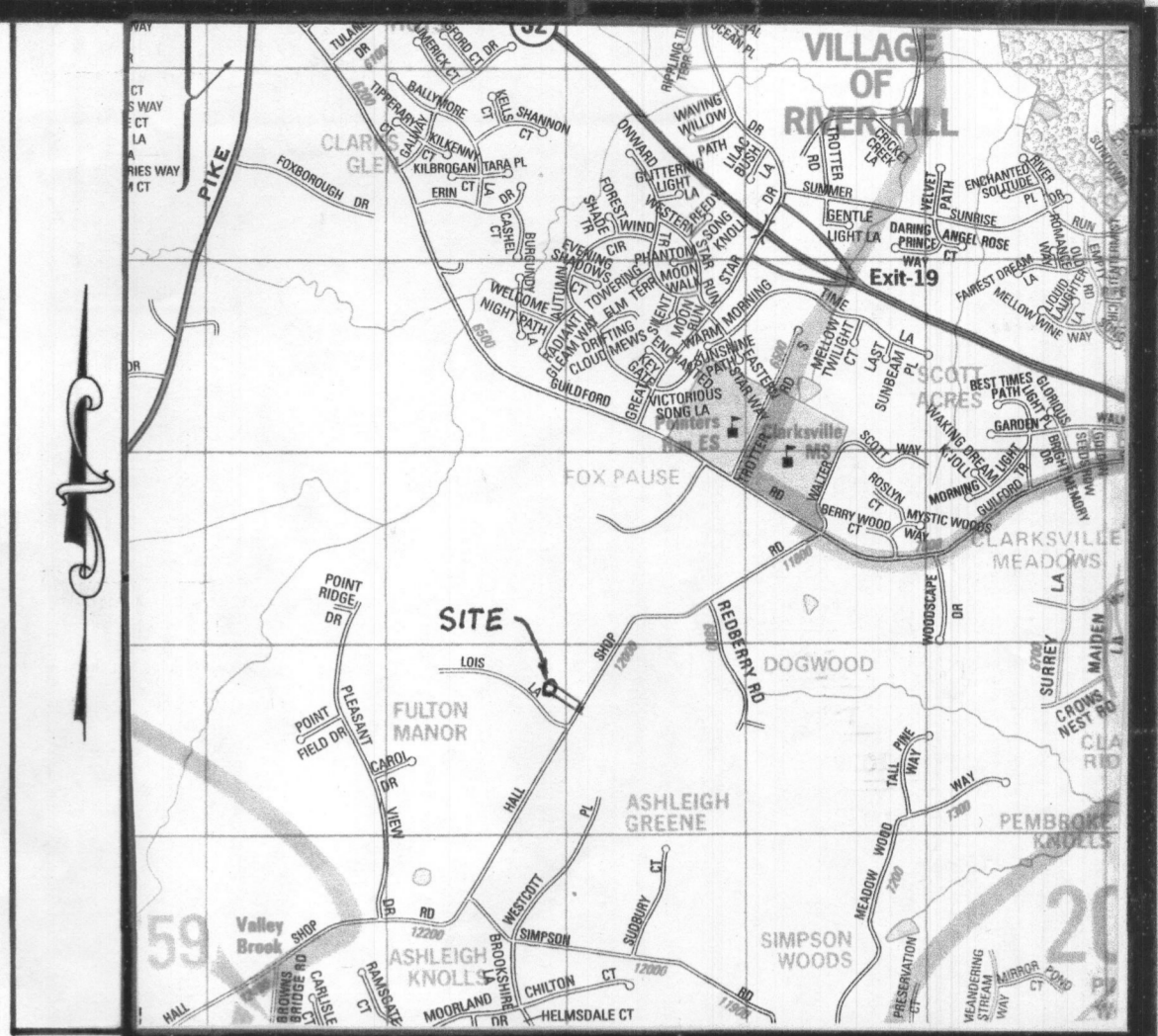
MDE Sewage Area Statement
 This area designate a private sewage disposal area as required by The Maryland Department of Environment for individual sewage disposal. Improvement of any nature in this area are restricted. This sewage disposal area shall become null and void upon connection to a public sewerage system. The County Health Officer shall have authority to grant adjustments to the private sewage easement. Recordation of a revised sewage easement shall not be necessary.

I HEREBY CERTIFY THAT THE INFORMATION SHOWN HEREON IS BASED ON FIELD WORK PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION AND IS CORRECT, TO THE BEST OF MY KNOWLEDGE AND BELIEF.
 04-12-2019
 DATE
 GREGORY BLENZ
 REGISTERED PROFESSIONAL LAND SURVEYOR, MD No. 11594 LICENSE EXPIRATION AUG. 8, 2020



- Site Plan Notes:
- Any changes to the locations or depths to any components must be approved by the engineer and the Howard County Health Department prior to installation. A revised Site Plan may be required.
 - The maximum earth cover over tank is 3.0 feet. Greater earth cover will require a heavy load bearing tank.
 - Electrical work for the installation must be performed by a licensed electrician. (If required)
 - The well #12024 has been field located and is accurately shown.
 - All wells and septic systems located within 100' of the property boundaries and 200' down gradient of any wells and/or septic systems have been shown.

Approved Septic System Plan
 Howard County Health Department
 Hank Osuch 9/19/19
 Signature Date



VICINITY MAP

SCALE: 1"=200'
 COPYRIGHT: A.D.C., "THE MAP PEOPLE" PERMITTED USE No 20492158

- GENERAL NOTES:
- SITE ZONED:
 - AREA OF SITE: 181,427 SF OR 4.16 ACRES
 - SITE IS LOCATED ON TAX MAP 35 GRID 19, PARCEL 280.
 - SITE IS LOCATED ON ADC MAP PAGE 14, GRID 12-F-16.
 - PROPERTY ACCOUNT NUMBER: 350400.
 - WATER AND SEWER IS TO BE PRIVATE.
 - OWNER: Takahashi Kazue & Takahashi Hiroko
 12020 Hall Shop Road
 Clarksville, MD 21029
 - DEVELOPER/APPLICANT: Takahashi Kazue
 12020 Hall Shop Road
 Clarksville, MD 21029
 (410) 852-4154
 - PROPERTY DESCRIPTION: DEED LIBER 4900 AT FOLIO 613
 - ANY CHANGES TO A PRIVATE SEWER EASEMENT SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
 - THE NEW SEPTIC SYSTEM SHALL BE INSTALLED AND THE OLD SEPTIC SYSTEM ABANDONED PRIOR TO BUILDING PERMIT APPROVAL BY THE HEALTH DEPARTMENT.
 - TOPOGRAPHY AND IMPROVEMENTS SHOWN, INCLUDING THE EXISTING WELL WERE FIELD SHOT BY SURVEYS, INC ON OCTOBER 19, 2018.
 - PER FEMA FLOOD INSURANCE RATE MAP, PROPERTY IS IN ZONE COMMUNITY PANEL NUMBER
 - PROPERTY ADDRESS:
 - ALL WELLS AND SEPTIC SYSTEMS LOCATED WITHIN 100' OF THE PROPERTY BOUNDARIES AND 200' DOWN GRADIENT OF ANY WELLS AND/OR SEPTIC SYSTEMS HAVE BEEN SHOWN.

PURPOSE STATEMENT

The purpose of this plan is for the extension of the septic system recovery area for the expansion for additional trenches for a Master Bedroom to be constructed in the basement. This will include an additional bathroom.

SURVEYS, INC.
 SURVEYORS • ENGINEERS • LAND PLANNERS
 PERMIT SERVICES
 350 MAIN STREET
 LAUREL, MARYLAND, 20701
 PHONE 301-716-0941 FAX 301-716-0942 E-MAIL SURVEYS@GVERIZON.NET

DATE	REVISION
1-31-2019	HD Comments
4-30-2019	HD Comments
5-22-2019	"

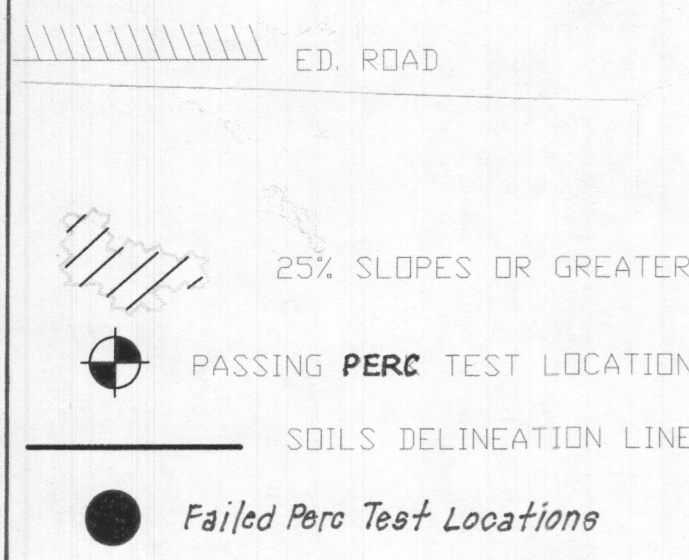
SEPTIC SYSTEM INSTALLATION PLAN
 12020 Hall Shop Road
 Tax Map 14, Grid 12 F & G, Parcel 280
"KAZUE PROPERTY"
 5th Election District
 Howard County, Maryland

SCALE	DESIGNER	CHECKED BY
1"=40'	Blenz	GB
DATE	DRAFTER	FIELD BOOK
Nov 2018	Takahashi Kazue	66-01
JOB NUMBER	SHEET NUMBER	FILE NUMBER
18-33	1 OF 1	L-476

LEGEND

These standard symbols will be found in the drawing.

- x EX. ELEVATIONS
- + PROP. ELEVATIONS
- EX. CONTOURS
- PROP. CONTOURS
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TRENCH DESIGN

Proposed Bedrooms 4 in existing house
 Application Rates: Initial Trench = 0.6
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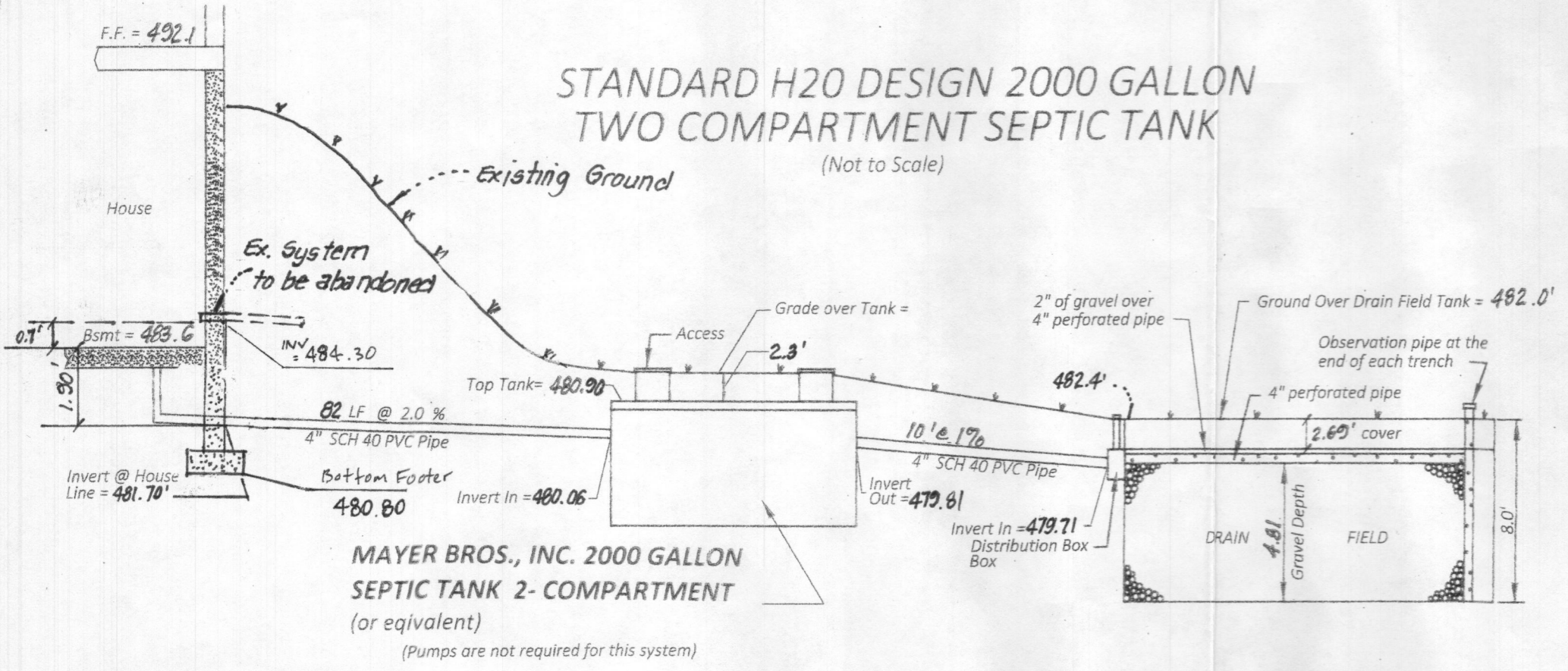
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 Square footage of trench required:
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Linear length of trench required:
 Initial Trench = 1000 sf/3' = 333 lf.
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Sidewall Reduction:
 Initial Trench = 5/10 = 50.0% = 333 lf. x 0.50 = 167 lf.
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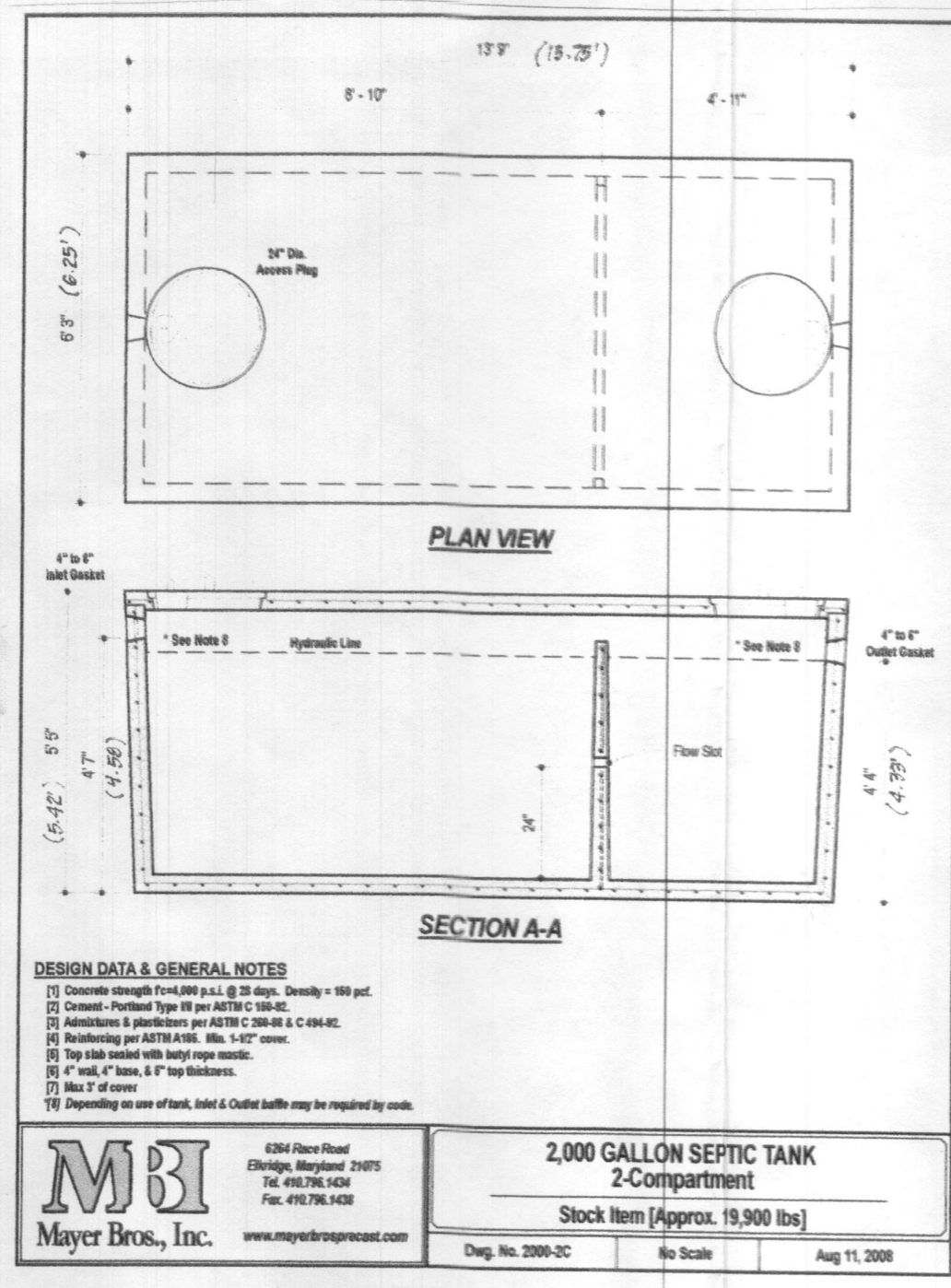
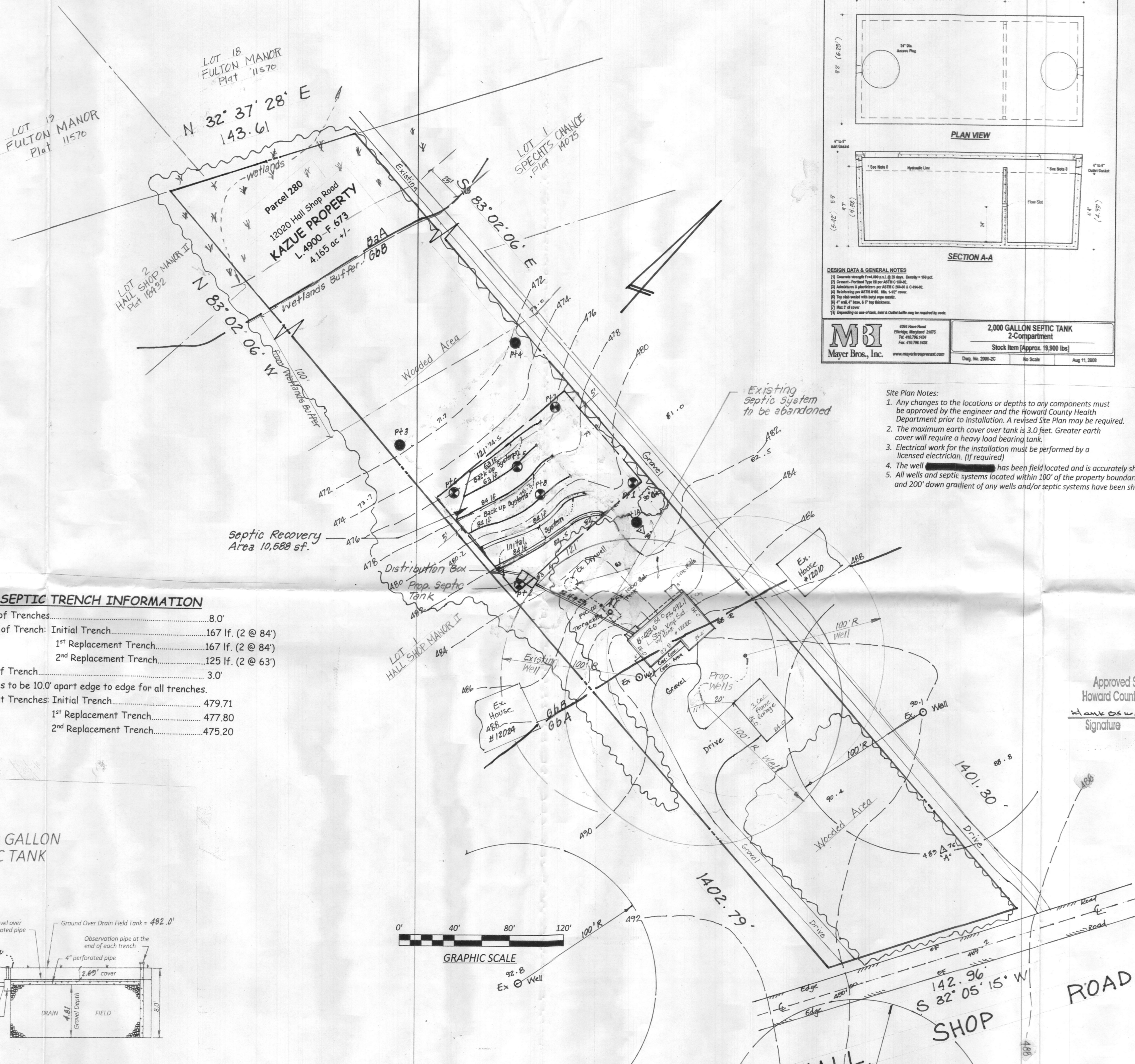
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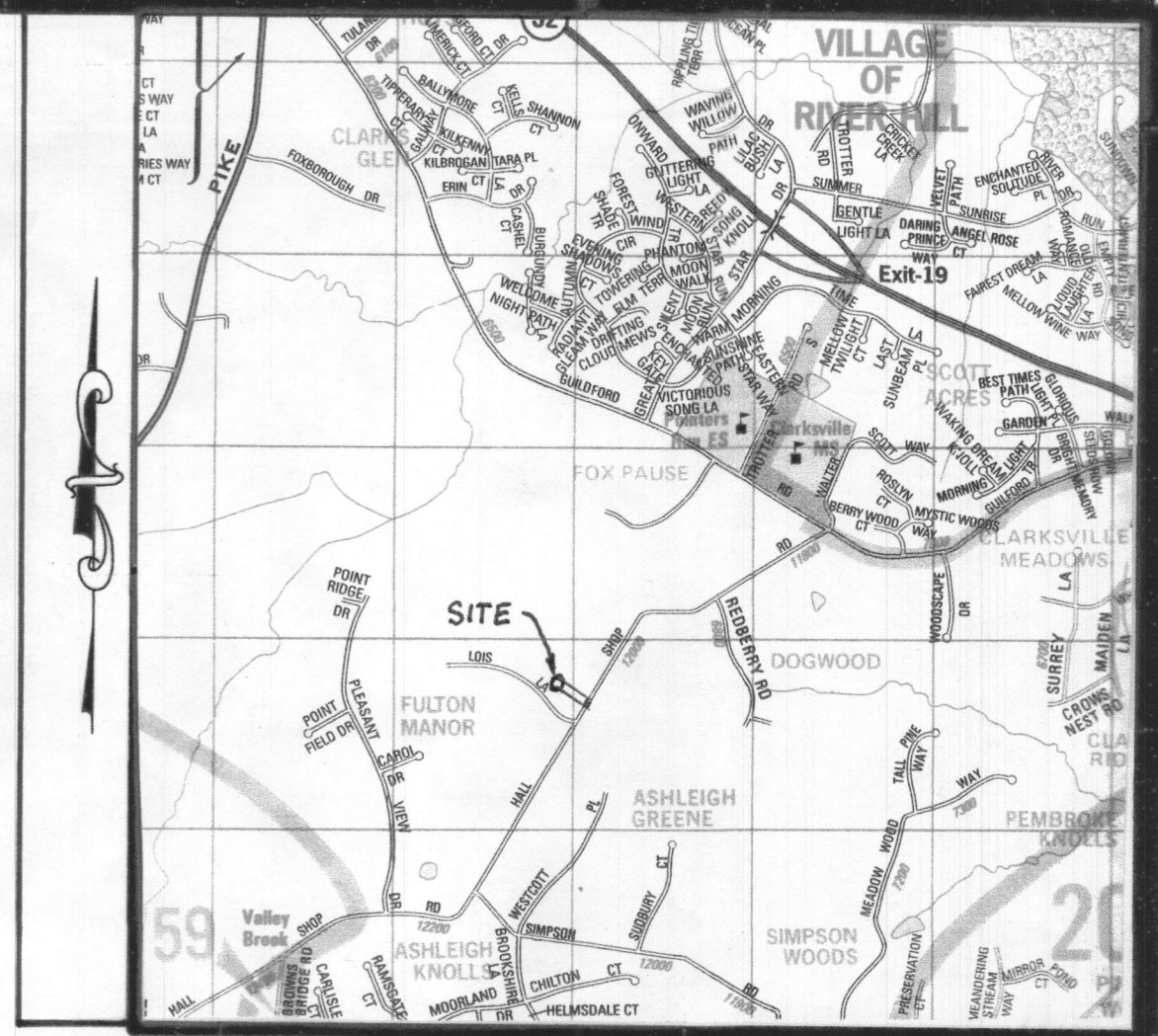
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 AND IS CORRECT, TO THE BEST OF MY KNOWLEDGE AND BELIEF.

04-12-2019 DATE

REGISTERED PROFESSIONAL
 LAND SURVEYOR, MD. No. 13894
 LICENSE EXPIRATION 06/30/2022



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 - DEVELOPER/APPLICANT: Takahashi Kazue
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 Clarksville, MD 21029
 (410) 852-4154
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 350 MAIN STREET
 LAUREL, MARYLAND, 20707
 PHONE 301-716-0541 FAX 301-716-0442 E-MAIL SURVEYS@GVERIZON.NET

DATE	REVISION
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SEPTIC SYSTEM INSTALLATION PLAN
 12020 Hall Shop Road
 Tax Map 14, Grid 12 F & G, Parcel 280
"KAZUE PROPERTY"
 5th Election District
 Howard County, Maryland

SCALE	DESIGNER	CHECKED BY
1"=40'	GB	GB
DATE	DRAFTER	FIELD BOOK
Nov 2018	Technician Tenney	66-01
JOB NUMBER	SHEET NUMBER	FILE NUMBER
18-33	1 OF 1	L-476

LEGEND

These standard symbols will be found in the drawing.

- x EX. ELEVATIONS
- + PROP. ELEVATIONS
- EX. CONTOURS
- PROP. CONTOURS
- EX. WOODLINE
- SPECIFIC TREES
- STREAM/CREEK
- ELEC. LINE
- ED. ROAD
- SPEC. FENCE
- 25% SLOPES OR GREATER
- PASSING PERC TEST LOCATIONS
- SOILS DELINEATION LINE
- Failed Perc Test Locations

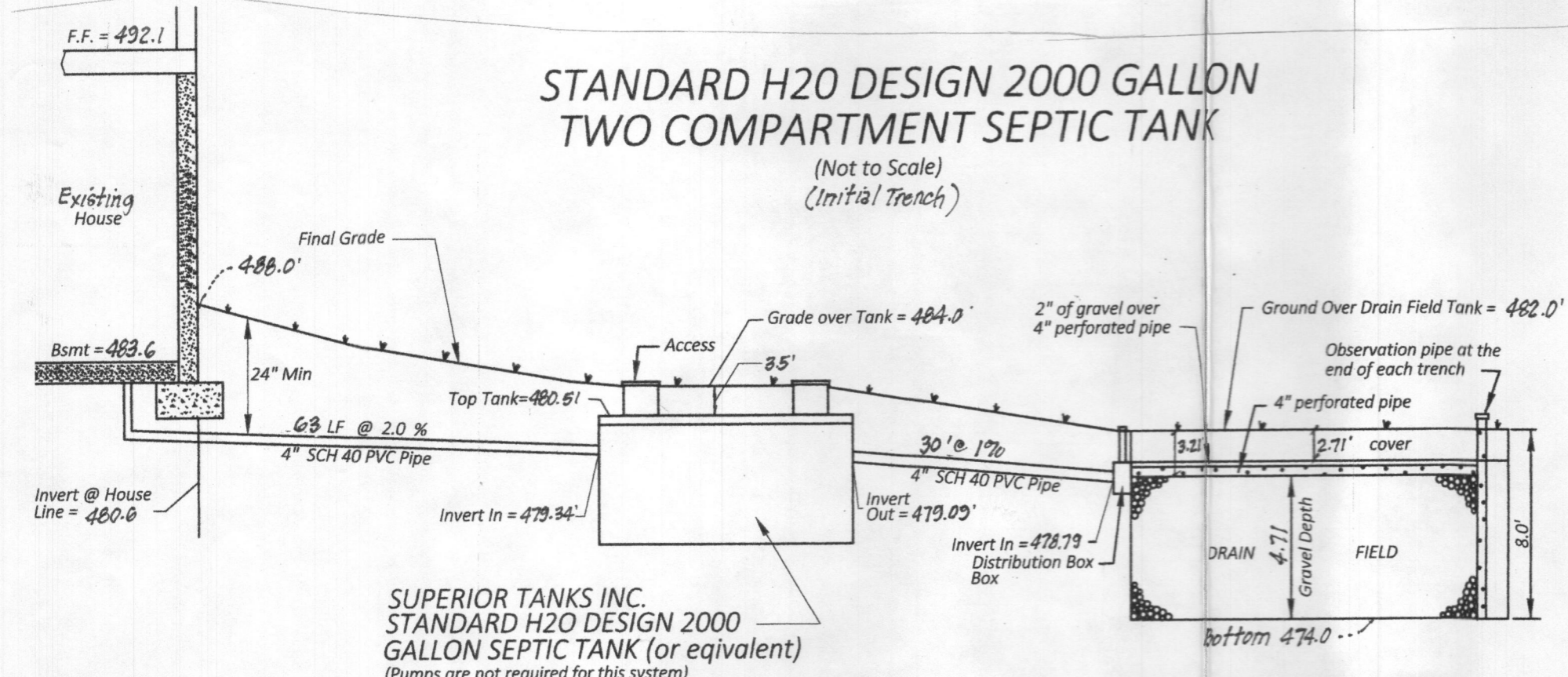
TRENCH DESIGN

Proposed Bedrooms 4 in existing house
 Application Rates: Initial Trench = 0.6
 1st Replacement Trench = 0.6
 2nd Replacement Trench = 0.8
 Effective Areas: All Trenches = 3.0'
 Depth of Trenches: All 8.0' deep
 Design Flow = 150 gallons per day (gpd) per bedroom
 Design Flow = 4 x 150 = 600 gpd.
 Square footage of trench required:
 Initial Trench..... 600 gpd/0.6 = 1,000 sf.
 1st Replacement Trench... 600 gpd/0.6 = 1,000 sf.
 2nd Replacement Trench... 600 gpd/0.8 = 750 sf.
 Linear length of trench required:
 Initial Trench = 1000 sf/3' = 333 lf.
 1st Replacement = 1000 sf/3' = 333 lf.
 2nd Replacement = 750 sf/3' = 250 lf.
 Sidewall Reduction:
 Initial Trench = 4/9 = 44.4% = 333 lf. x 0.444 = 167 lf.
 1st Replacement = 4/9 = 44.4% = 333 lf. x 0.444 = 167 lf.
 2nd Replacement = 4/10 = 50.0% = 250 lf. x 0.50 = 125 lf.

SEPTIC TRENCH INFORMATION

Depth of Trenches..... 8.0'
 Length of Trench: Initial Trench..... 208 lf.
 1st Replacement Trench..... 208 lf.
 2nd Replacement Trench..... 156 lf.
 Width of Trench..... 3.0'
 Trenches to be 10.0' apart edge to edge for all trenches.
 Invert at Trenches: Initial Trench..... 478.79
 1st Replacement Trench..... 476.19
 2nd Replacement Trench..... 473.79

STANDARD H2O DESIGN 2000 GALLON TWO COMPARTMENT SEPTIC TANK



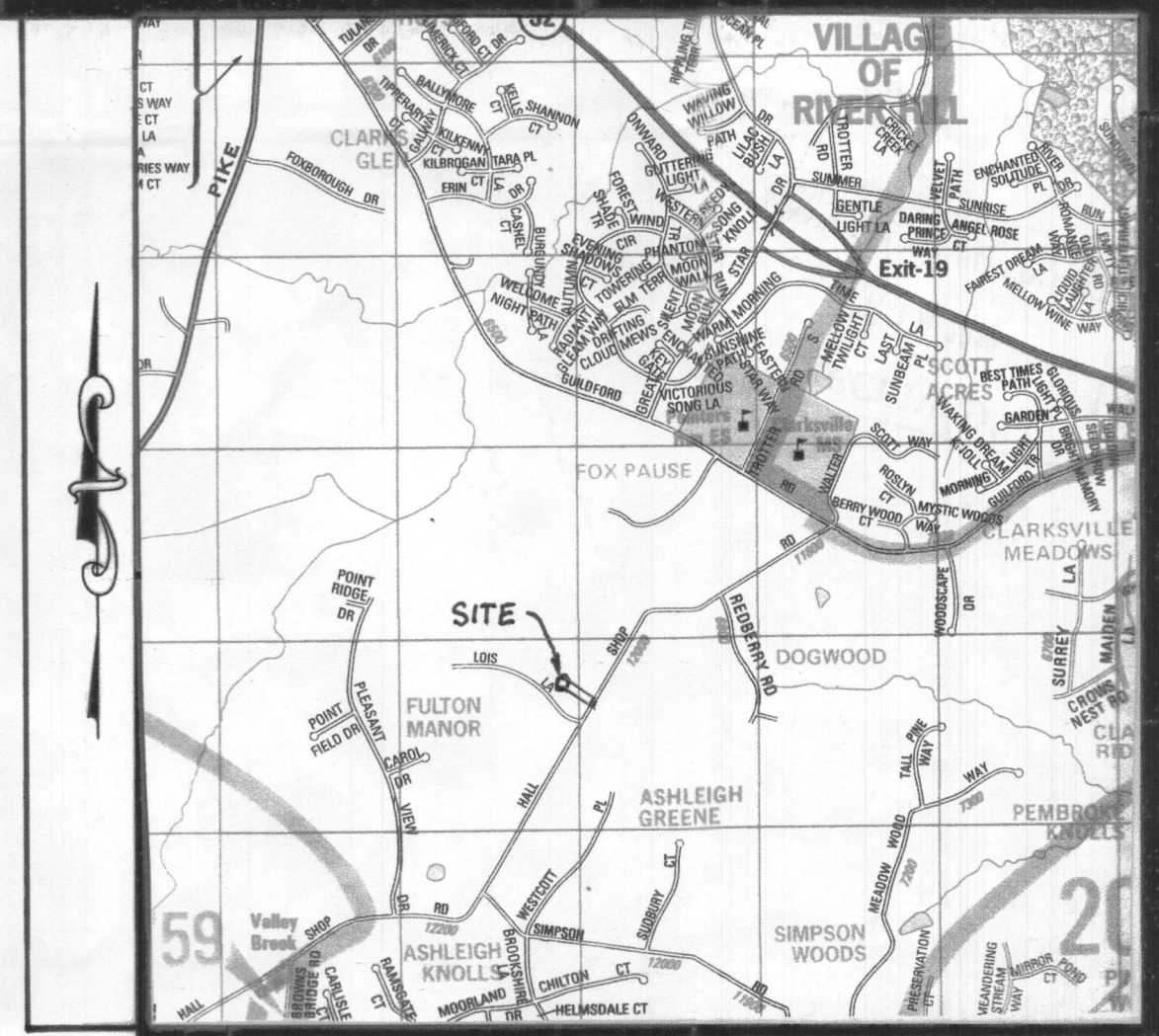
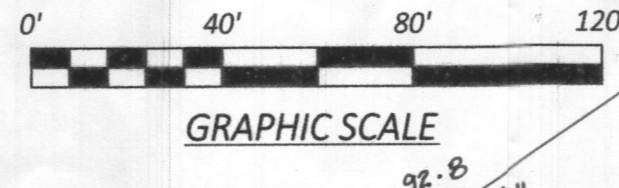
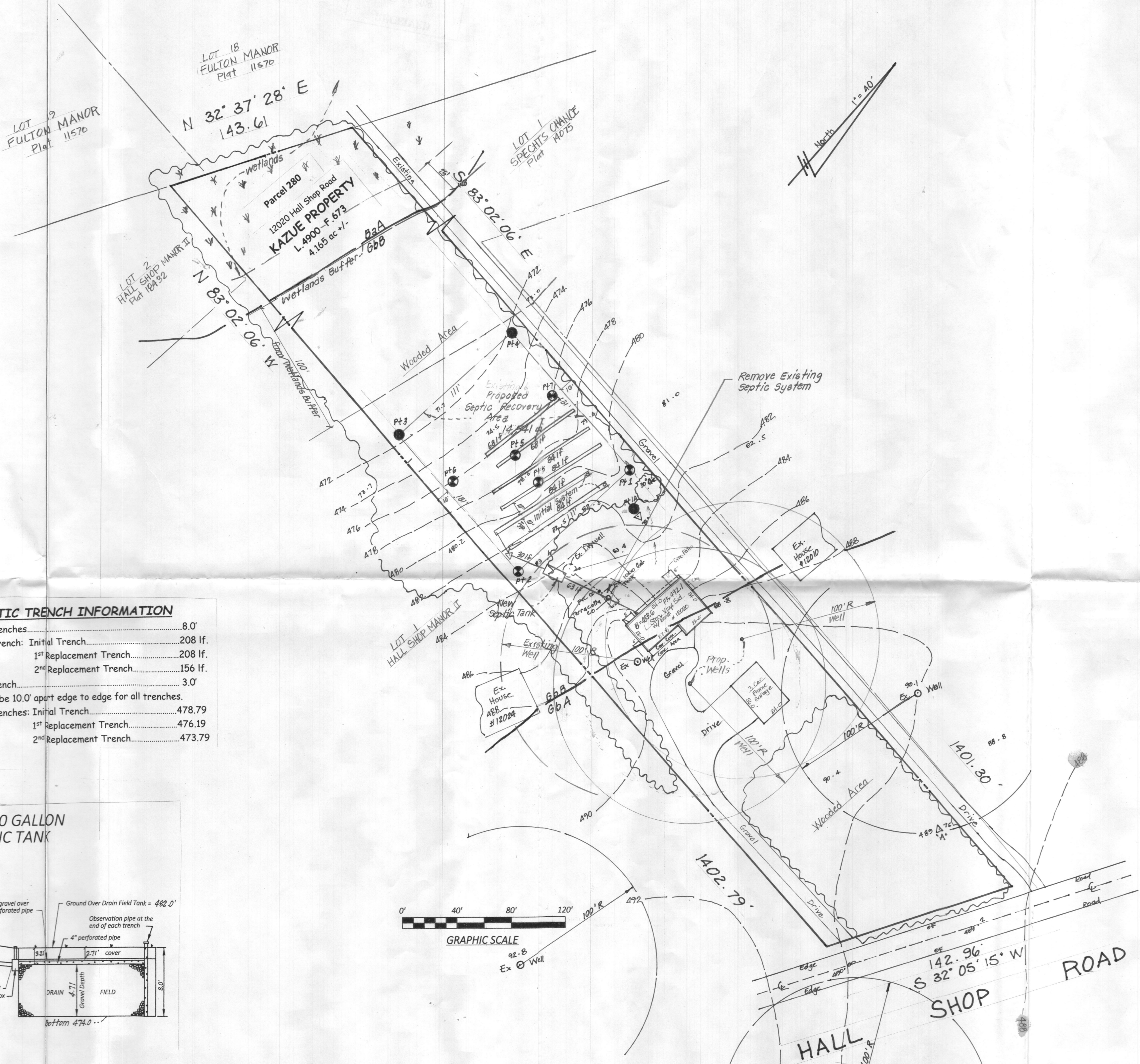
OWNER/DEVELOPER
 Takahashi Kazue
 12020 Hall Shop Road
 Clarksville, MD 21029
 (410) 852-4154

CALL "MISS UTILITY" TELEPHONE NUMBER 1-800-257-7777 FOR UTILITY LOCATIONS AT LEAST 48 HOURS BEFORE BEGINNING CONSTRUCTION.

Approved for private water and sewerage systems in conformance with the Master Plan of Howard County.
 Health Officer, Howard County Health Dept. Date

MDE Sewage Area Statement
 This area designate a private sewage disposal area as required by The Maryland Department of Environment for individual sewage disposal; improvement of any nature in this area are restricted. This sewage disposal area shall become null and void upon connection to a public sewerage system. The County Health Officer shall have authority to grant adjustments to the private sewage easement. Recordation of a revised sewage easement shall not be necessary.

I HEREBY CERTIFY THAT THE INFORMATION SHOWN HEREON IS BASED ON FIELD WORK PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION AND IS CORRECT, TO THE BEST OF MY KNOWLEDGE AND BELIEF.
 DATE: 04-12-2019
 CATEGORY: REGISTERED PROFESSIONAL LAND SURVEYOR, MD No. 10994 LICENSE EXPIRATION: AUG. 8, 2018



VICINITY MAP

SCALE: 1"=2000'
 COPYRIGHT: A.D.C., "THE MAP PEOPLE" PERMITTED USE No 20492158

GENERAL NOTES:

1. SITE ZONED:
2. AREA OF SITE: 181,427 SF OR 4.16 ACRES
3. SITE IS LOCATED ON TAX MAP 35 GRID 19, PARCEL 280.
4. SITE IS LOCATED ON ADC MAP PAGE 14, GRID 12-F16.
5. PROPERTY ACCOUNT NUMBER: 350409.
6. WATER AND SEWER IS TO BE PRIVATE.
7. OWNER: Takahashi Kazue & Takahashi Hiroko
 12020 Hall Shop Road
 Clarksville, MD 21029
8. DEVELOPER/APPLICANT: Takahashi Kazue
 12020 Hall Shop Road
 Clarksville, MD 21029
 (410) 852-4154
9. PROPERTY DESCRIPTION: DEED LIBER 4800 AT FOLIO 633
10. ANY CHANGES TO A PRIVATE SEWER EASEMENT SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
11. ALL WELLS ARE TO BE DRILLED PRIOR TO PERMIT ISSUANCE. IT IS THE DEVELOPERS RESPONSIBILITY TO SCHEDULE WELL DRILLING PRIOR TO PERMIT ISSUANCE. IT WILL NOT BE CONSIDERED GOVERNMENT DELAY IF THE WELL DRILLING HOLDS UP TO THE HEALTH DEPARTMENT SIGNATURE OF THE PERMIT.
12. TOPOGRAPHY FIELD SHOT BY SURVEYS INC.
13. PER FEMA FLOOD INSURANCE RATE MAP, PROPERTY IS IN ZONE COMMUNITY PANEL NUMBER
14. PROPERTY ADDRESS:
15. ALL WELLS AND SEPTIC SYSTEMS LOCATED WITHIN 100' OF THE PROPERTY BOUNDARIES AND 200' DOWN GRADIENT OF ANY WELLS AN/OR SEPTIC SYSTEMS HAVE BEEN SHOWN.

PURPOSE STATEMENT

The purpose of this plan is for the extension of the septic system recovery area for the expansion for additional trenches for a Master Bedroom to be constructed in the basement. This will include an additional bathroom.

SURVEYS, INC.

SURVEYORS * ENGINEERS * LAND PLANNERS
 PERMIT SERVICES
 350 MAIN STREET
 LAUREL, MARYLAND, 20707
 PHONE 301-716-0944 FAX 301-716-0944 E-MAIL SURVEYS@GVERIZON.NET

DATE	REVISION
1-31-2019	HD Comments

SITE PLAN FOR SEPTIC SYSTEM INSTALLATION
 12020 Hall Shop Road
 Tax Map 14, Grid 12 F& G, Parcel 280
"KAZUE PROPERTY"
 5th Election District
 Howard County, Maryland

SCALE	DESIGNER	CHECKED BY
1"=40'	Gregory J. Baker	GB
DATE	DRAFTER	FIELD BOOK
NOV 2018	Takahashi Kazue	66-01
JOB NUMBER	SHEET NUMBER	FILE NUMBER
18-33	1 OF 1	L-476