



Howard County
Health Department

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: 10/4/19 **ONSITE SEWAGE DISPOSAL SYSTEM**

P 566397

APPROVAL DATE: 1/7/20 RA **PERMIT: CONSTRUCTION**

A

PROPERTY ADDRESS: 1820 Woodstock Road

SUBDIVISION: Parkside

LOT: 16

TAX ID:

CONTRACTOR: Fogles Septic Clean Inc.

EMAIL: Kim@Foglesinc.com

CONTRACTOR ADDRESS: 580 Obercht Rd, Sykesville, MD 21784

PHONE: 410-795-8670

PROPERTY OWNER: Gudell & Khudayja Ward

EMAIL:

OWNER ADDRESS: 1820 Woodstock Road, Woodstock, MD 21163

PHONE:

SEPTIC TANK SIZE (GALLONS): 2000

TANK MANUFACTURER: Babylon or Equivalent

PUMP MODEL:

PUMP SIZE

PUMP TANK CAPACITY:

DISTRIBUTION SYSTEM: ☒ GRAVITY

☐ PRESSURE DOSED

BEDROOMS: 6

APPLICATION RATE: 1.2

TRENCHES:	LINEAR FEET REQUIRED: <u>156.3</u>	INLET DEPTH: <u>4</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>7</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:		

ISSUED BY: Hank Oswald

ISSUE DATE: 10/4/19

EXPIRATION DATE: 10/4/20

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.

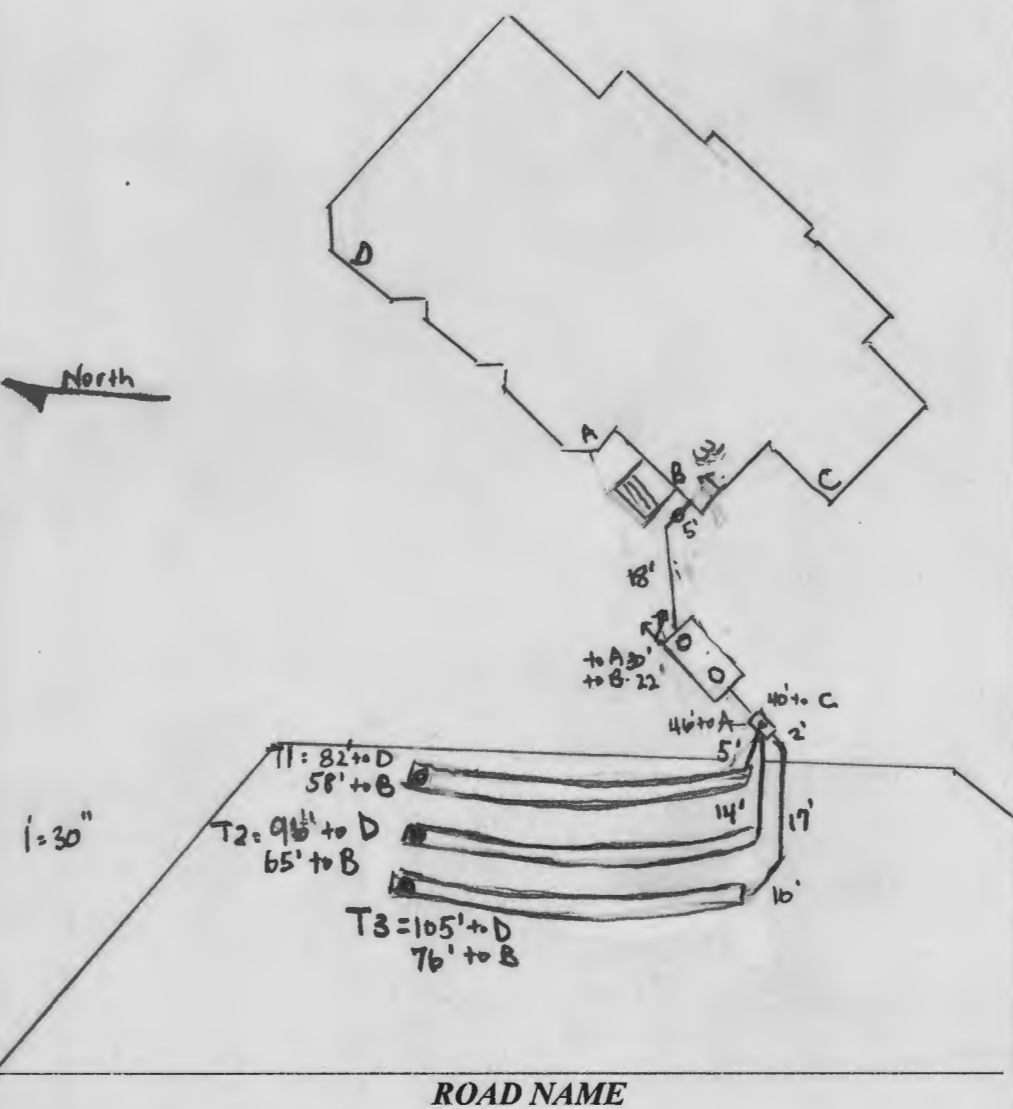
PERMITTEE RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT.

CALL 410-313-1771 TO SCHEDULE INSPECTIONS.

NOT TO SCALE

↗ ~185'
to well

North



TRENCH/DRAINFIELD DATA

WIDTH	INLET	BOTTOM
3'	4'	7'
NUMBER OF TRENCHES		3
TOTAL LENGTH		157'
ABSORPTION AREA		157' + Sidewall
DISTRIBUTION BOX LEVEL		yes
DISTRIBUTION BOX BAFFLE		yes
DISTRIBUTION BOX PORT		yes

SEPTIC TANK DATA

SEPTIC TANK 1 LEVEL	yes
MANUFACTURER	Babylon
CAPACITY	2000 GAL
SEAM LOC	top
TANK LID DEPTH	2.5'
BAFFLES	6" front / 4" back
BAFFLE FILTER	-
MANHOLE LOC	front / back
6" PORT LOC	-
WATERTIGHT TEST	-
SLOTTED	yes
DATE ON LID	11/11/2019

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	

PRE-CONSTRUCTION:

01/03/2020 SDA STAKED, 20' RADIUS PULLED OFF OF HOUSE. FILL WAS REMOVED OFF SDA TO CG. TRENCHES RED LINED. PERC 5 HAS 0.8 LOADING RATE, REST OF TRENCHES HAD 1.0 LOADING RATE. TRENCHES STAKED UNDER PERC 4.

INSTALLATION:

1/6/20 - tank set, SHC made, SHC is sleeved w/ furcoat to solids line, dbox was also set in place and connected to septic tank. No stone onsite yet but trench installation will begin once stone is onsite. Only one 3' riser installed on front end of tank and the other 3' riser will be installed on the back end of the tank when it's delivered to the site. (R2)
1/7/20 - site inspection contractor on site. Trench #1 & #2 had ends left open for inspection and #3 was completely open. install looks good, geotextile fabric in place, stone looks good, 10' ETR, dbox level, levelers good T1 = 52', T2 = 52', T3 = 53'. the other 3' riser was installed on the back end of the tank and soil looks great for percolation. OK to backfill. (R2)

FINAL INSPECTOR

Ryan Bappapet

DATE OF APPROVAL

1/7/20

Howard County Health Department

Bureau of Environmental Health, Columbia, MD 21045 - 410-313-1771

SEWAGE DISPOSAL PERMIT NO. A-_____ P-_____

RESIDENTIAL PERMIT ☐

(NUMBER OF BEDROOMS: _____)

COMMERCIAL PERMIT ☐

(DESIGN FLOW: _____ GPD)

PERMITEE:

LOCATION:

1820 Woodstock Road Pkside Lot 16

****POST THIS CARD WHERE IT CAN BE SEEN FROM ROAD****

☐

STOP ALL CONSTRUCTION ON SEWAGE
DISPOSAL SYSTEM AND CONTACT HEALTH
DEPARTMENT BEFORE CONTINUING

Inspector _____

Date _____

☐

WORK IS SATISFACTORY, OK TO
CONTINUE

Inspector _____

Date _____

COMMENTS:

☐

FINAL INSPECTION MADE, OK TO
COVER ALL WORK

Inspector _____

Date _____

Williams, Jeffrey

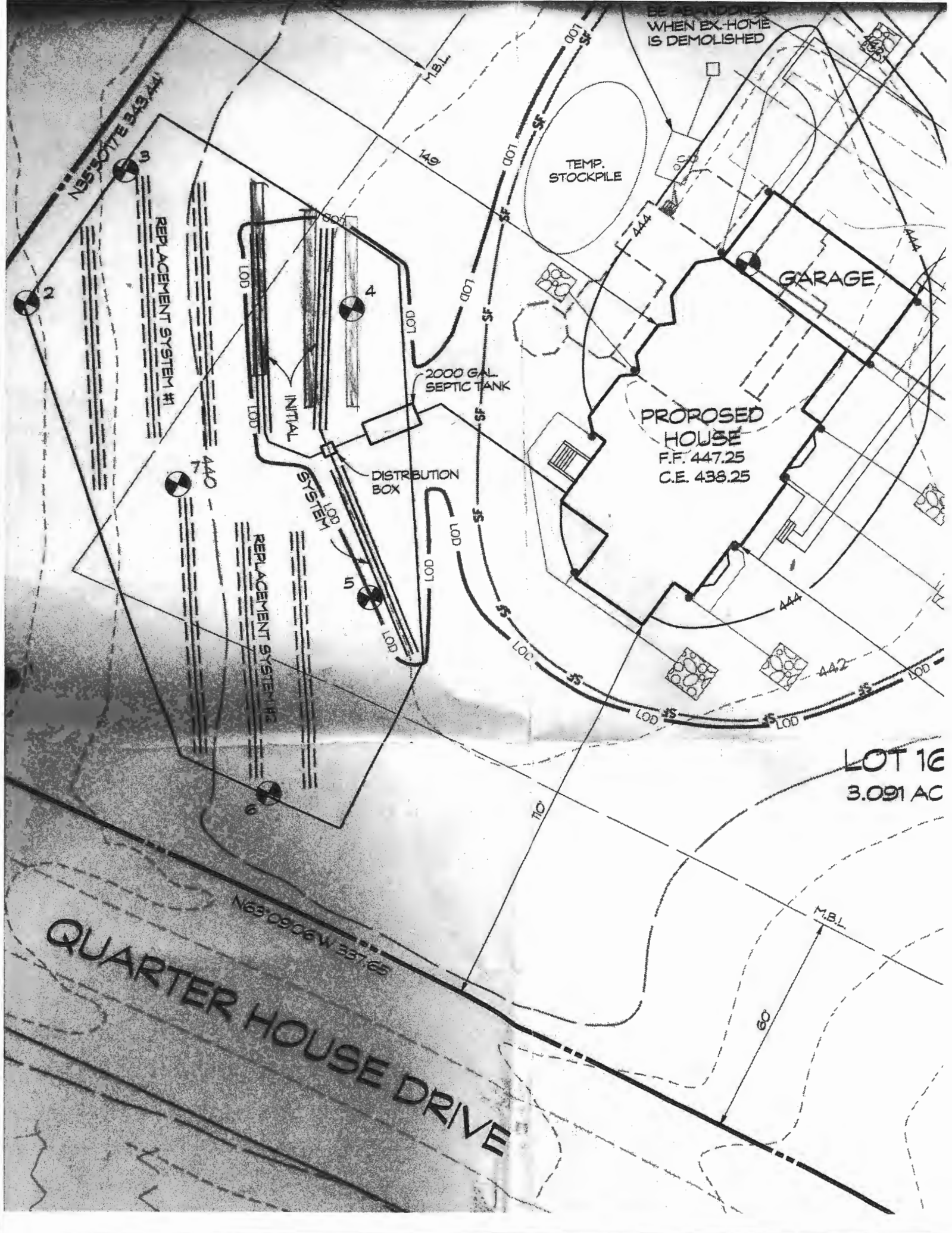
From: Williams, Jeffrey
Sent: Friday, February 01, 2019 2:49 PM
To: Linda D. Alexander (lalexander@clsi-civileng.com) (lalexander@clsi-civileng.com); Linda D. Alexander (lalexander@clsimail.com)
Subject: 1820 Woodstock

The OSDS plan for 1820 Woodstock is approved, however only one copy was submitted. We need two copies, one for our file and one to give to the contractor when they apply for the septic permit. Please send us a 2nd copy. Thanks

Jeff Williams
Program Supervisor, Well & Septic Program
Bureau of Environmental Health
Howard County Health Dept.
410-313-4261
jewilliams@howardcountymd.gov

CONFIDENTIALITY NOTICE

This message and the accompanying documents are intended only for the use of the individual or entity to which they are addressed and may contain information that is privileged, confidential, or exempt from disclosure under applicable law. If the reader of this email is not the intended recipient, you are hereby notified that you are strictly prohibited from reading, disseminating, distributing, or copying this communication. If you have received this email in error, please notify the sender immediately and destroy the original transmission.



BE ABANDONED
WHEN EX. HOME
IS DEMOLISHED

TEMP.
STOCKPILE

GARAGE

PROPOSED
HOUSE
F.F. 447.25
C.E. 438.25

2000 GAL
SEPTIC TANK

DISTRIBUTION
BOX

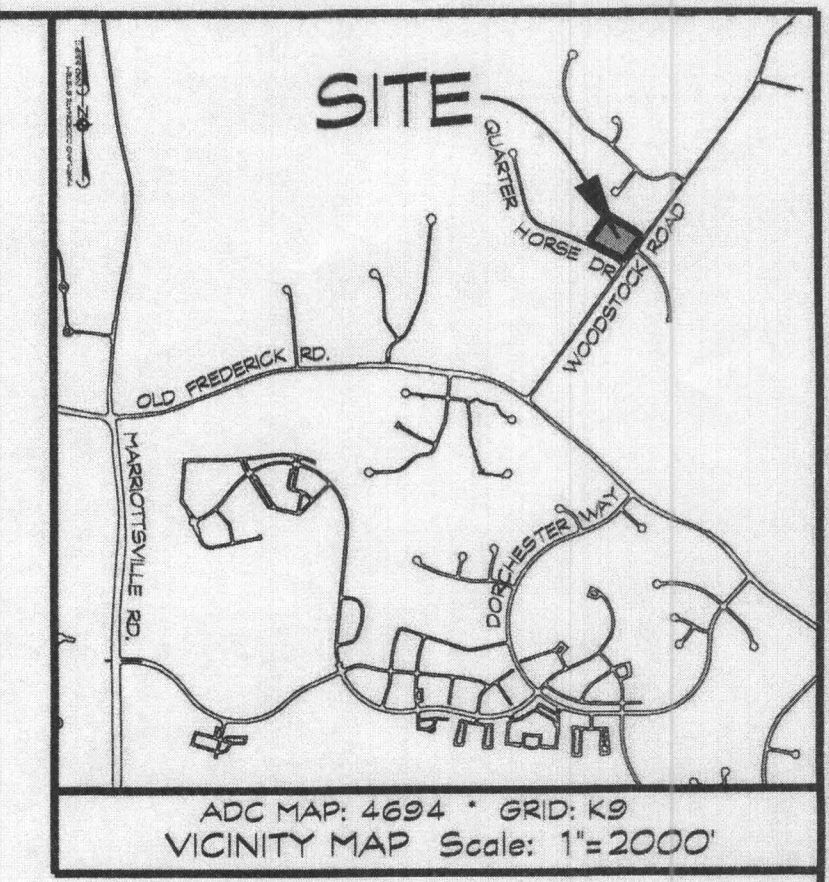
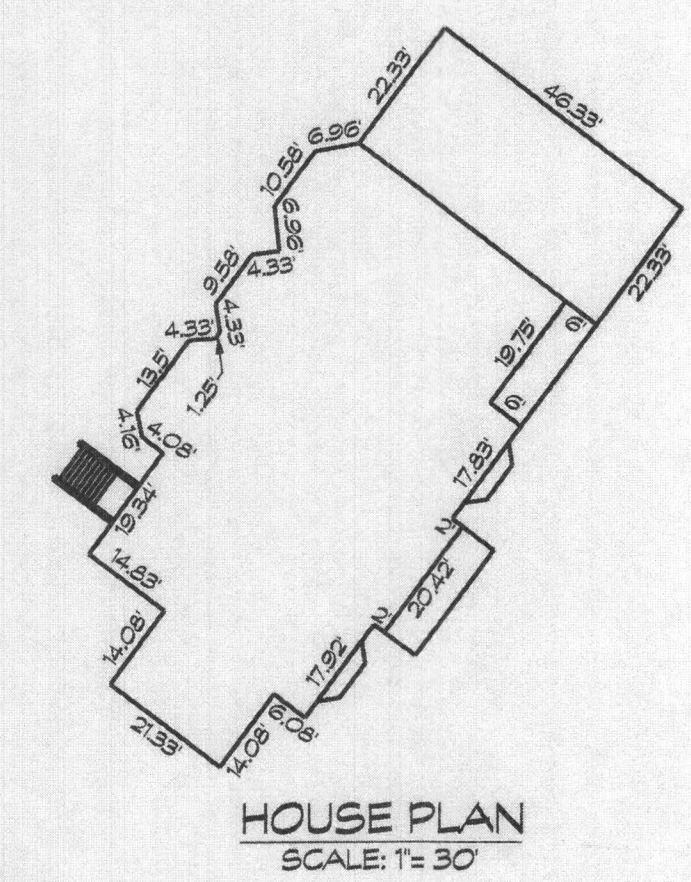
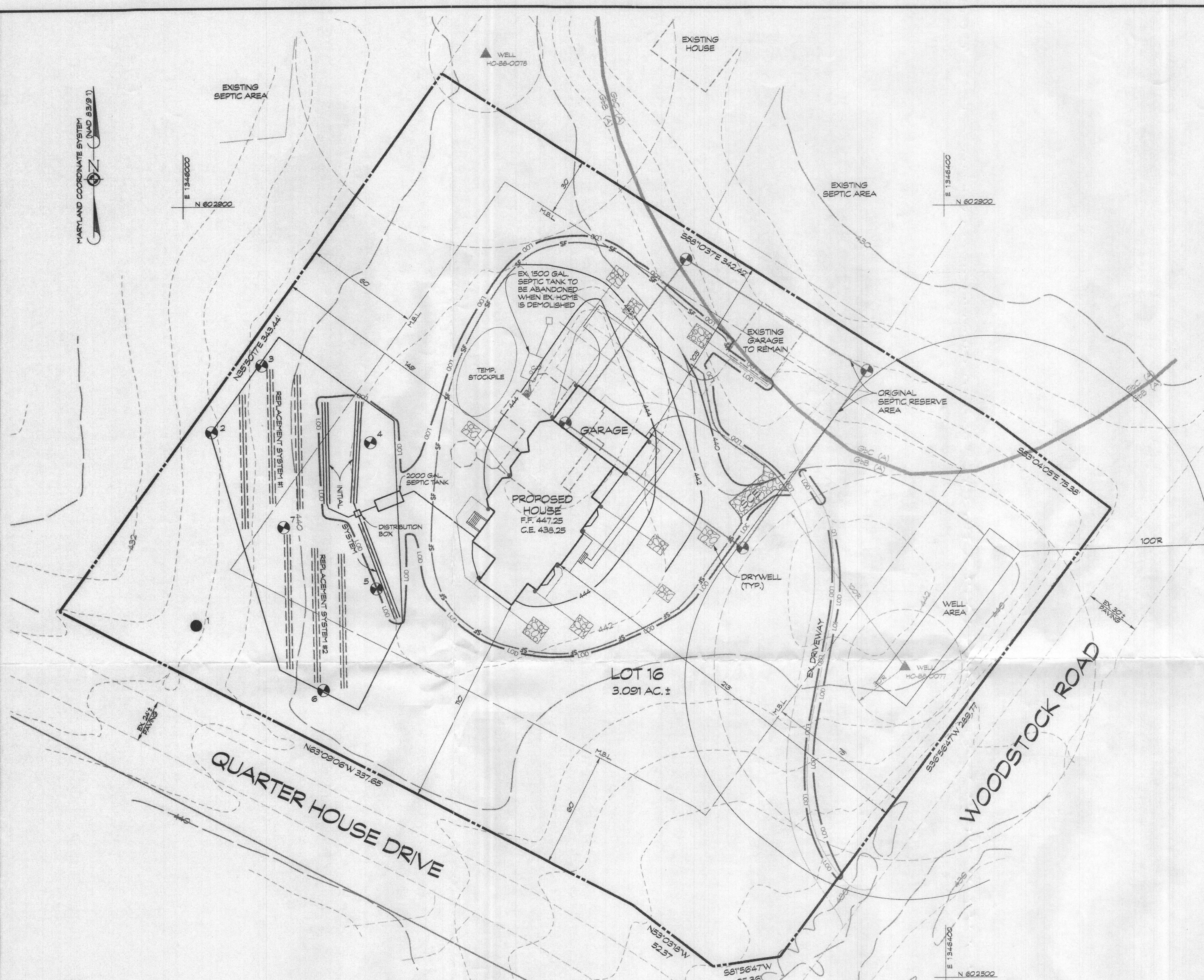
REPLACEMENT SYSTEM #1

REPLACEMENT SYSTEM #2

INITIAL
SYSTEM

LOT 16
3.091 AC

QUARTER HOUSE DRIVE



SEPTIC SYSTEM TRENCH DESIGN:
PROPOSED NUMBER OF BEDROOMS = 6

INITIAL SYSTEM:
APPLICATION RATE = 1.2
DESIGN FLOW: 180 GALS x 6 BEDROOMS = 1080 GALS/DAY
900 GALS/DAY / 1.2 GAL./DAY/SQ. FT. = 750 SQ. FT.
SIDEWALL REDUCTION = 62.5%
750 SQ. FT. x 62.5% / 3 FT. = 156.3
USE 3 x 52 LF. OF TRENCH

REPLACEMENT SYSTEMS 1 & 2
APPLICATION RATE = 0.8
DESIGN FLOW: 180 GALS x 6 BEDROOMS = 1080 GALS/DAY
900 GALS/DAY / 0.8 GAL./DAY/SQ. FT. = 1125 SQ. FT.
SIDEWALL REDUCTION = 55.6%
1125 SQ. FT. x 55.6% / 3 FT. = 208.5
USE 3 x 70 LF. OF TRENCH

- PLAN NOTES**
- ANY CHANGE 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 THE TANK IS 3 FEET. GREATER EARTH COVER WILL REQUIRE A HEAVY LOAD BEARING TANK.
 - IF A BUILDING PERMIT IS SUBMITTED ANYTIME IN THE FUTURE, A SEPTIC SYSTEM UPGRADE WILL BE REQUIRED TO FINISH THE AREA CURRENTLY IDENTIFIED AS THE BASEMENT. AT THAT TIME, A SEPTIC SYSTEM UPGRADE WILL BE REQUIRED, AS FINISHING THE BASEMENT COULD POSSIBLY CREATE A SEVENTH BEDROOM, PER HOWARD COUNTY CODE § 8.80 (B).
 - TANK MEASUREMENTS AND ELEVATIONS ARE BASED ON SEPTIC TANKS AS MANUFACTURED BY MAYER BROS., ELK RIDGE, MD 410-796-1434.
 - ALL WELLS AND SEPTIC SYSTEMS LOCATED WITHIN 100 FEET OF THE PROPERTY BOUNDARIES AND 200 FEET DOWN GRADIENT OF ANY WELLS AND/OR SEPTIC SYSTEMS HAVE BEEN SHOWN.

- GENERAL NOTES**
- THE STORMWATER MANAGEMENT FOR THIS LOT IS PROVIDED BY DRY WELL ON SITE.
 - THERE ARE NO STREAMS, PONDS, FLOODPLAINS, OR WETLANDS ON THIS LOT.
 - THERE ARE NO 20% OR GREATER SLOPES ON THIS LOT.
 - THE EXISTING WELL (TAG # HO-88-0077) HAS BEEN FIELD LOCATED BY CLSI AND IS ACCURATELY SHOWN HEREON.

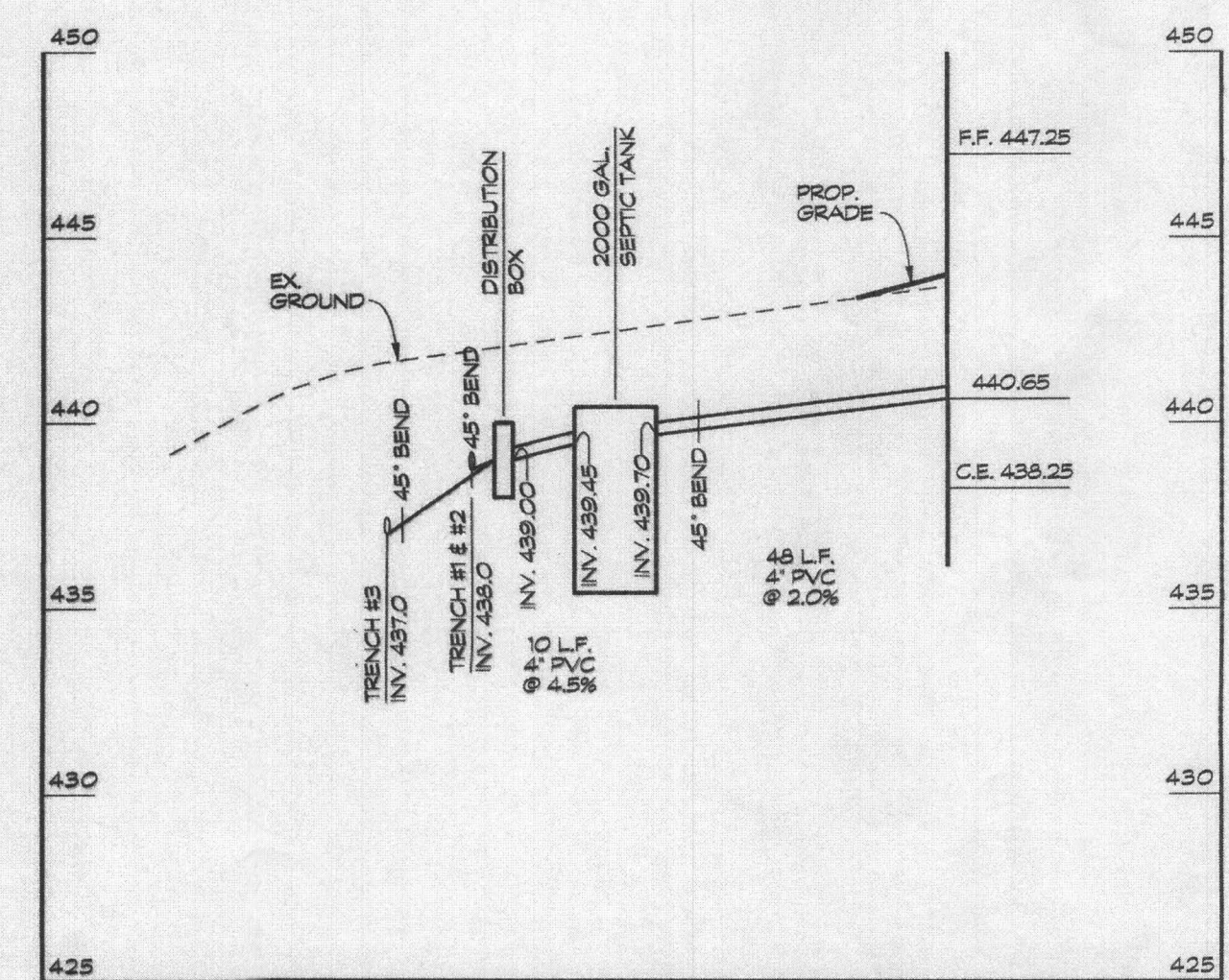
OWNER/DEVELOPER
GUELLE & KHUDAY JA WARD
1820 WOODSTOCK ROAD
WOODSTOCK, MD 21163

**ONSITE SEWAGE DISPOSAL
SYSTEM DESIGN PLAN**
PARKSIDE LOT 16
3rd ELECTION DISTRICT • HOWARD COUNTY, MD
TAX MAP: 10 • BLOCK: 23 • PARCEL: 36
RECORDED IN PLAT #9682



Handwritten signature and date: 1/25/18

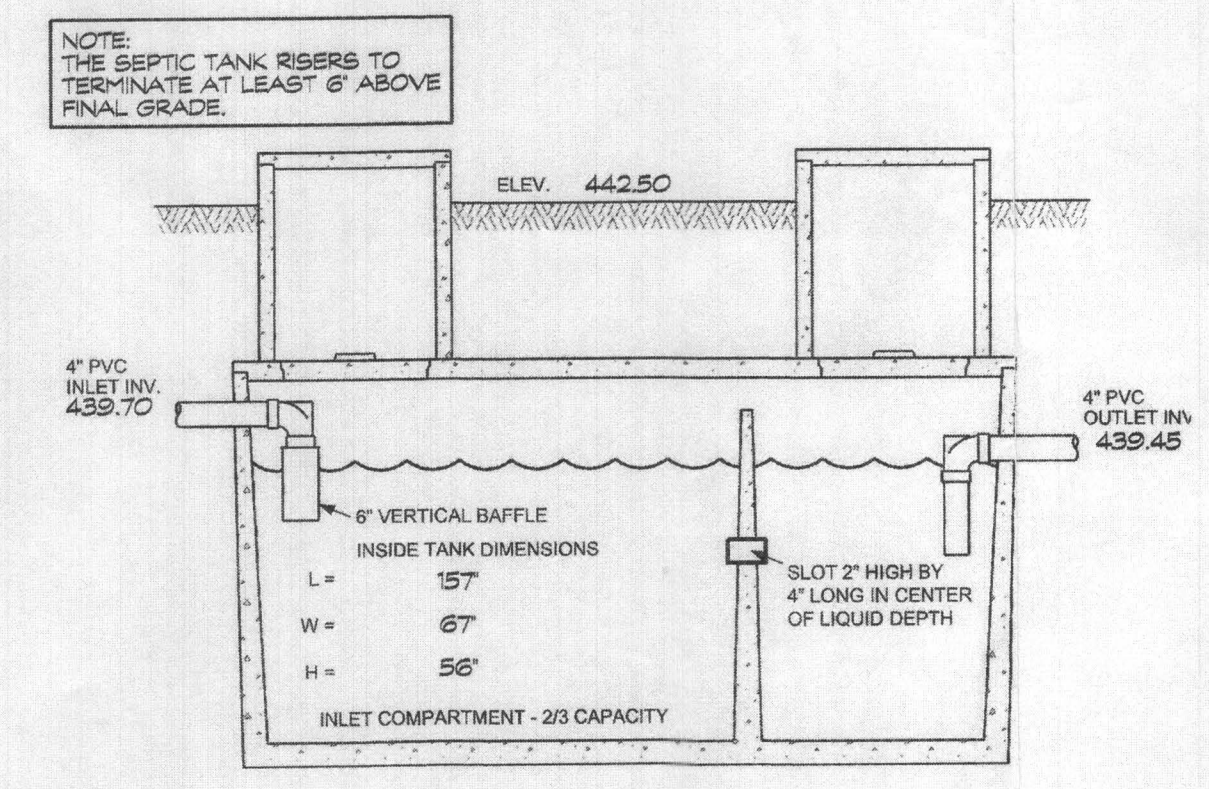
Date	Revisions	Drawn By:
		Designed By:
		Reviewed By:
		Date: JAN., 2018
		Scale: 1" = 30'
		Job No: 2018190
		Sheet:

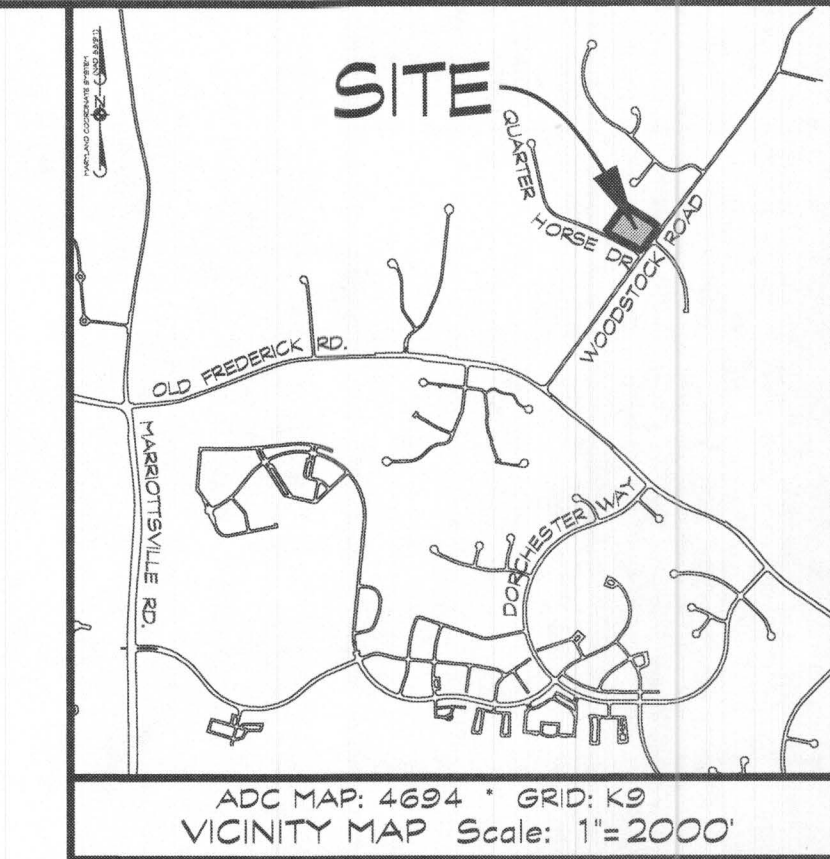
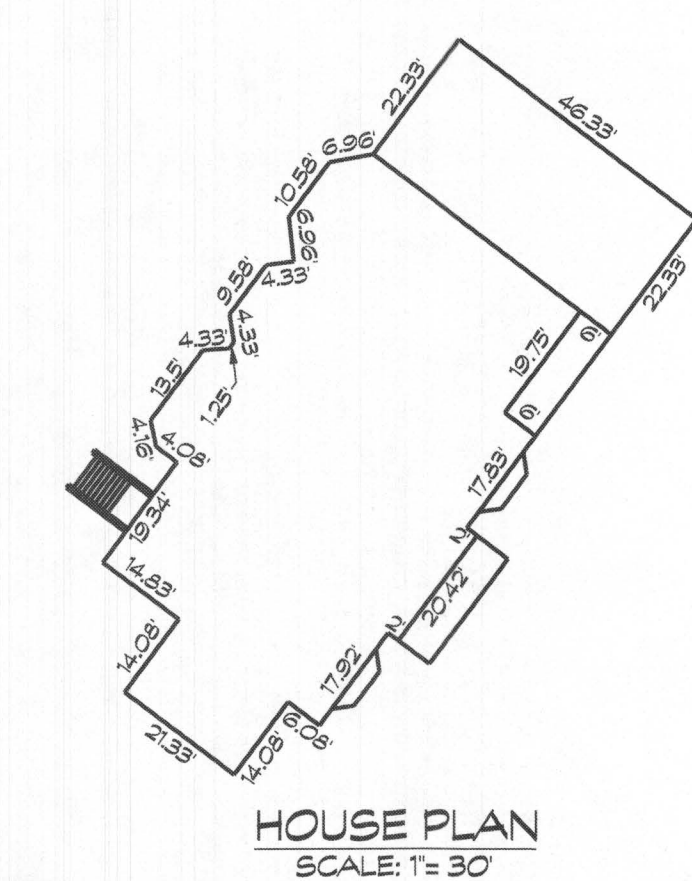
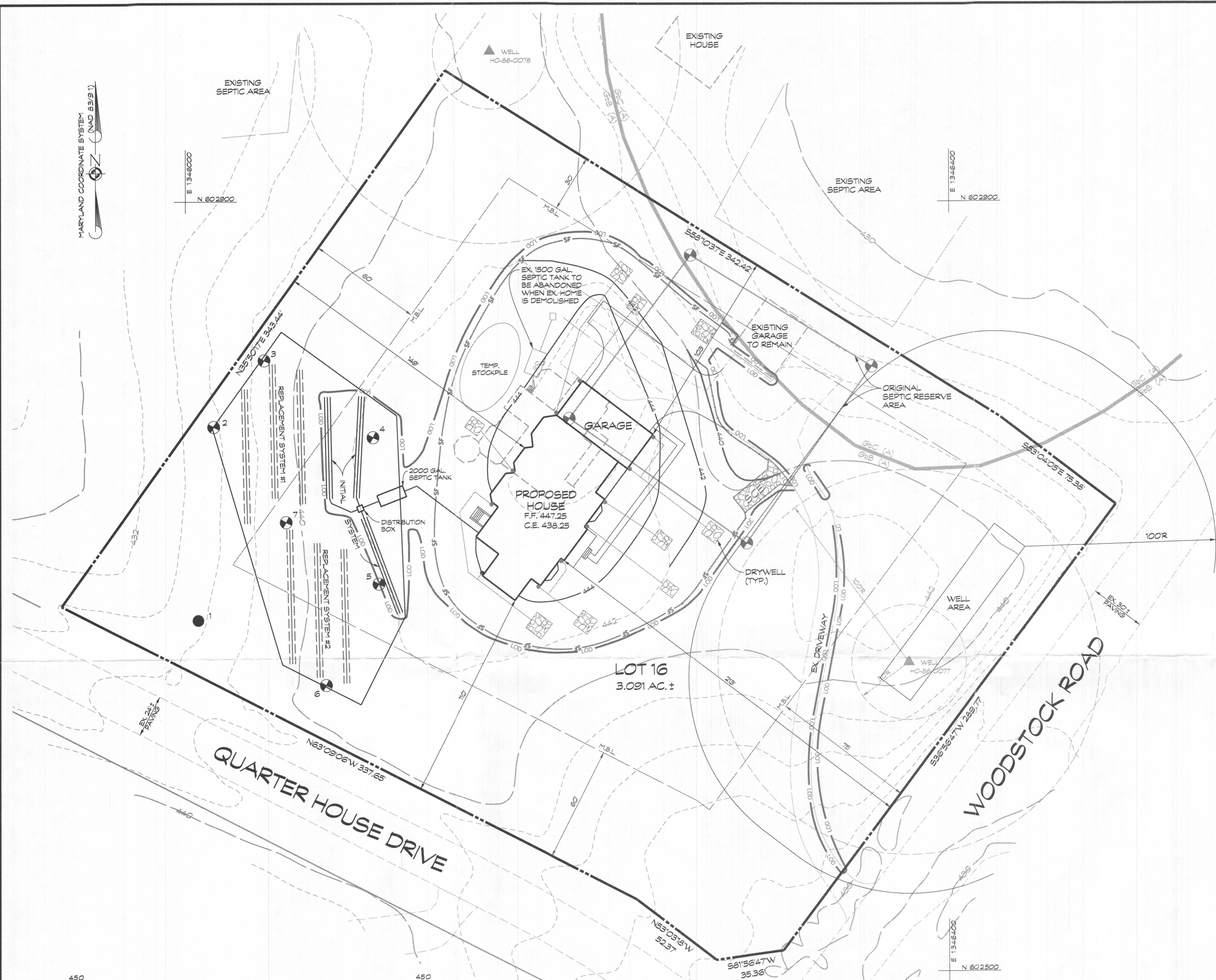


TRENCH CHART

TRENCH	EX. GROUND	INV. ELEV.	BOTTOM OF TRENCH
1	442.0	438.0	435.0
2	442.0	438.0	435.0
3	441.0	437.0	434.0

- LEGEND**
- ▲ EXISTING WELL LOCATION
 - SOIL LINES
 - APPROVED SEWAGE DISPOSAL AREA
 - ⊙ APPROVED PERCOLATION TESTS
 - SF — SILT FENCE
 - STABILIZED CONSTRUCTION ENTRANCE
 - LOD — LIMIT OF DISTURBANCE





SEPTIC SYSTEM TRENCH DESIGN:
PROPOSED NUMBER OF BEDROOMS = 6

INITIAL SYSTEM:
APPLICATION RATE = 1.2
DESIGN FLOW: 150 GALS x 6 BEDROOMS = 900 GAL/DAY
900 GAL/DAY / 1.2 GAL./DAY/SQ. FT. = 750 SQ. FT.
SIDEWALL REDUCTION = 62.5%
750 SQ. FT. x 62.5% / 3 FT. = 156.3
USE 3 x 52 LF. OF TRENCH

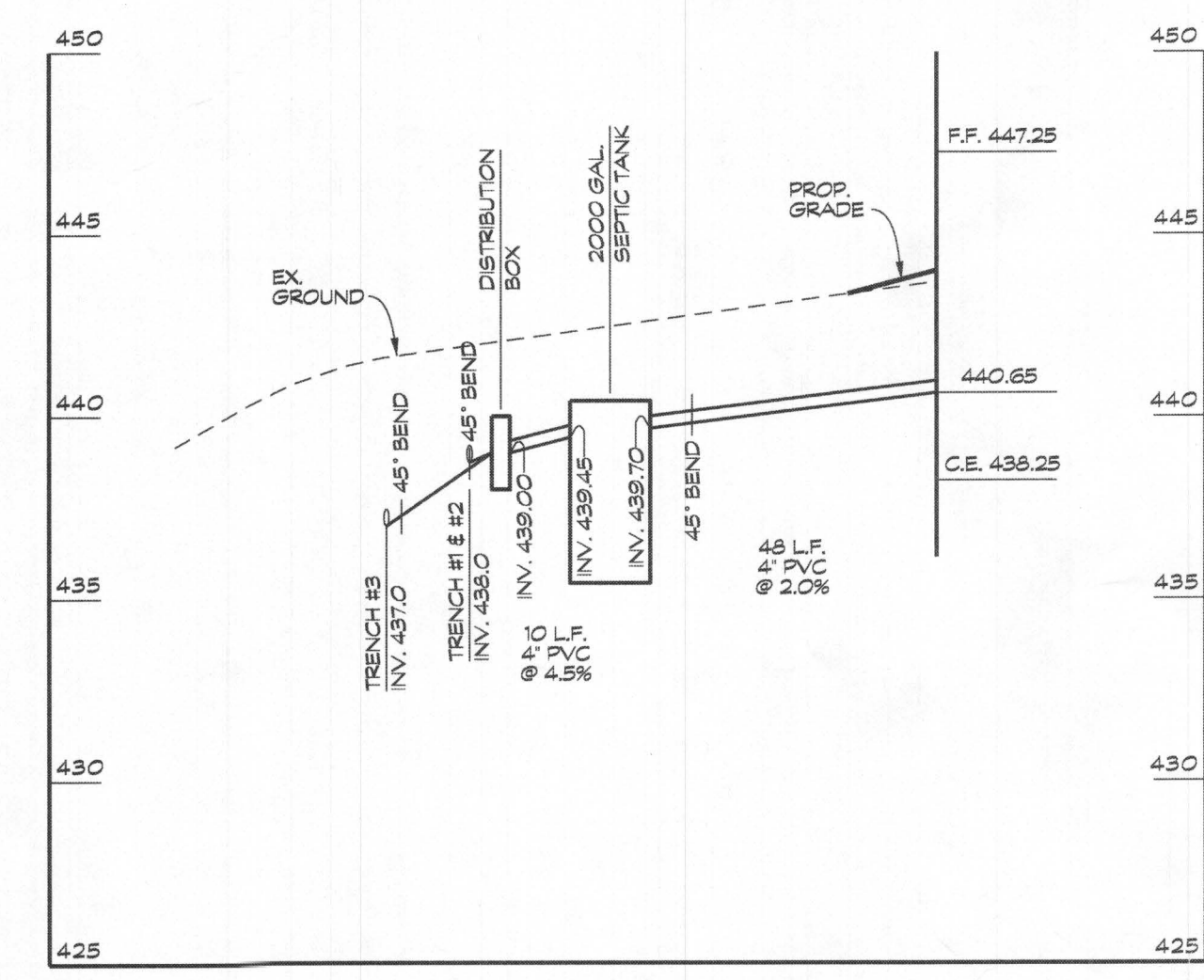
REPLACEMENT SYSTEMS 1 & 2
APPLICATION RATE = 0.8
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SIDEWALL REDUCTION = 55.6%
1125 SQ. FT. x 55.6% / 3 FT. = 208.5
USE 3 x 70 LF. OF TRENCH

- PLAN NOTES**
1. ANY CHANGE 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.
 2. THE MAXIMUM EARTH COVER OVER THE TANK IS 3 FEET. GREATER EARTH COVER WILL REQUIRE A HEAVY LOAD BEARING TANK.
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 4. TANK MEASUREMENTS AND ELEVATIONS ARE BASED ON SEPTIC TANKS AS MANUFACTURED BY MAYER BROS., ELK RIDGE, MD 410-798-1434.
 5. ALL WELLS AND SEPTIC SYSTEMS LOCATED WITHIN 100 FEET OF THE PROPERTY BOUNDARIES AND 200 FEET DOWN GRADIENT OF ANY WELLS AND/OR SEPTIC SYSTEMS HAVE BEEN SHOWN.

- GENERAL NOTES**
1. THE STORMWATER MANAGEMENT FOR THIS LOT IS PROVIDED BY DRY WELL ON SITE.
 2. THERE ARE NO STREAMS, PONDS, FLOODPLAINS, OR WETLANDS ON THIS LOT.
 3. THERE ARE NO 20% OR GREATER SLOPES ON THIS LOT.
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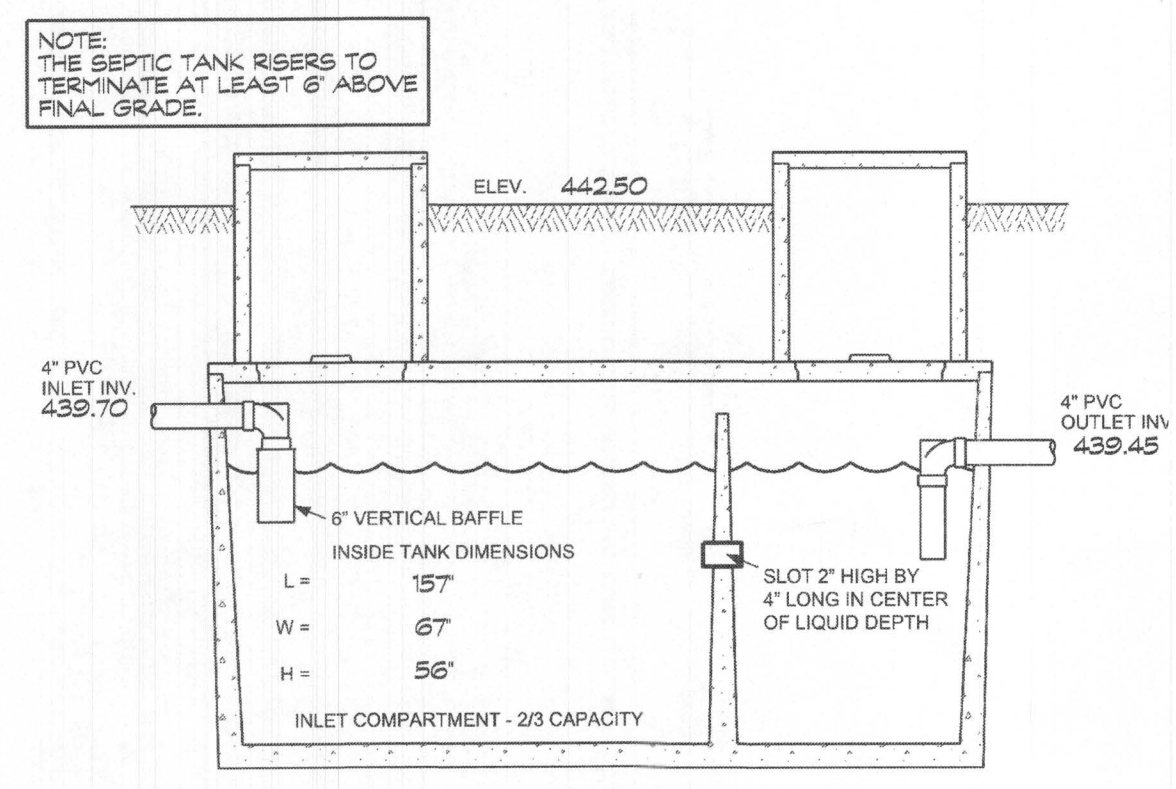
Approved Septic System Plan
Howard County Health Department
Signature: [Signature] Date: 7/1/19

OWNER/DEVELOPER
GUDELL & KHUDAY JA WARD
1820 WOODSTOCK ROAD
WOODSTOCK, MD 21163



TRENCH CHART			
TRENCH	EX. GROUND	INV. ELEV.	BOTTOM OF TRENCH
1	442.0	438.0	435.0
2	442.0	438.0	435.0
3	441.0	437.0	434.0

- LEGEND**
- ▲ EXISTING WELL LOCATION
 - G.S.A. G.S.C. SOIL LINES
 - APPROVED SEWAGE DISPOSAL AREA
 - ⊙ APPROVED PERCOLATION TESTS
 - SF SILT FENCE
 - STABILIZED CONSTRUCTION ENTRANCE
 - LOD LIMIT OF DISTURBANCE



**TOP SEAM
2000 GAL SEPTIC TANK
(NOT TO SCALE)**

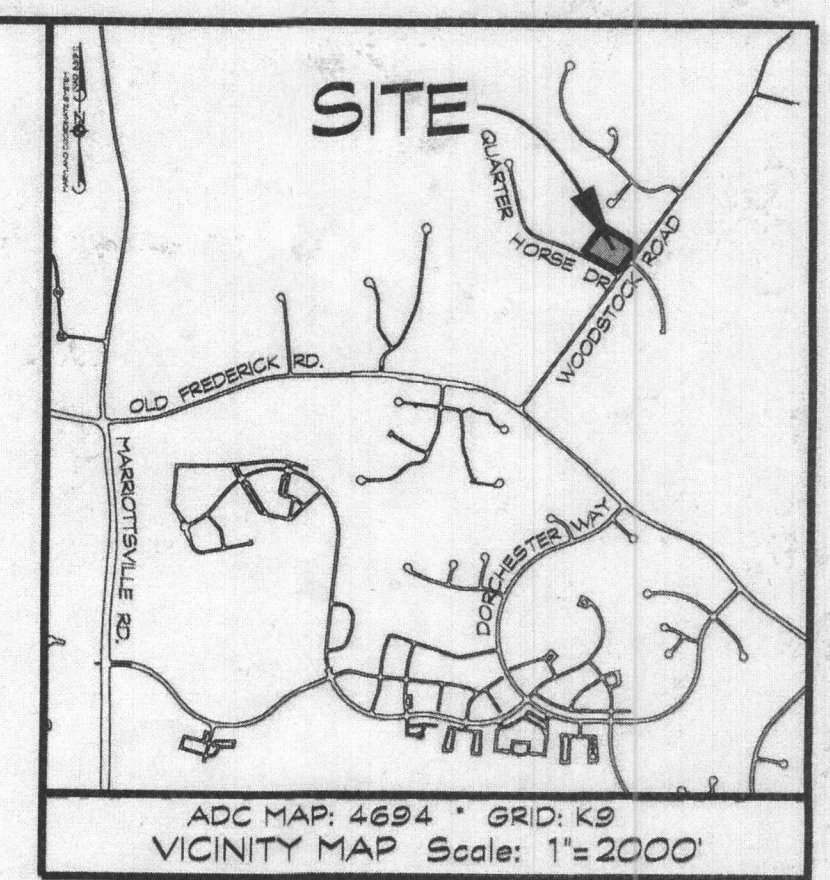
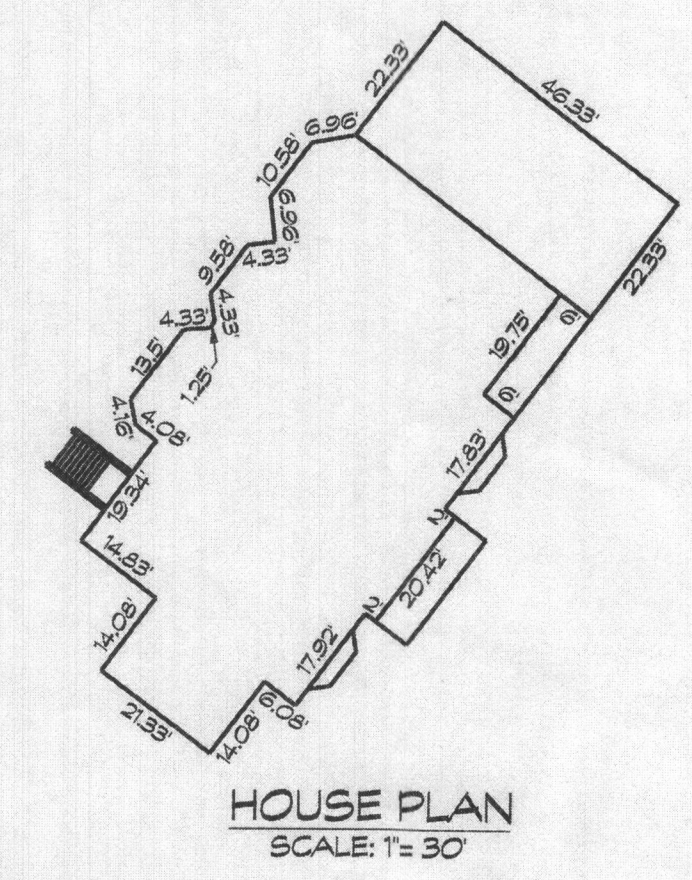
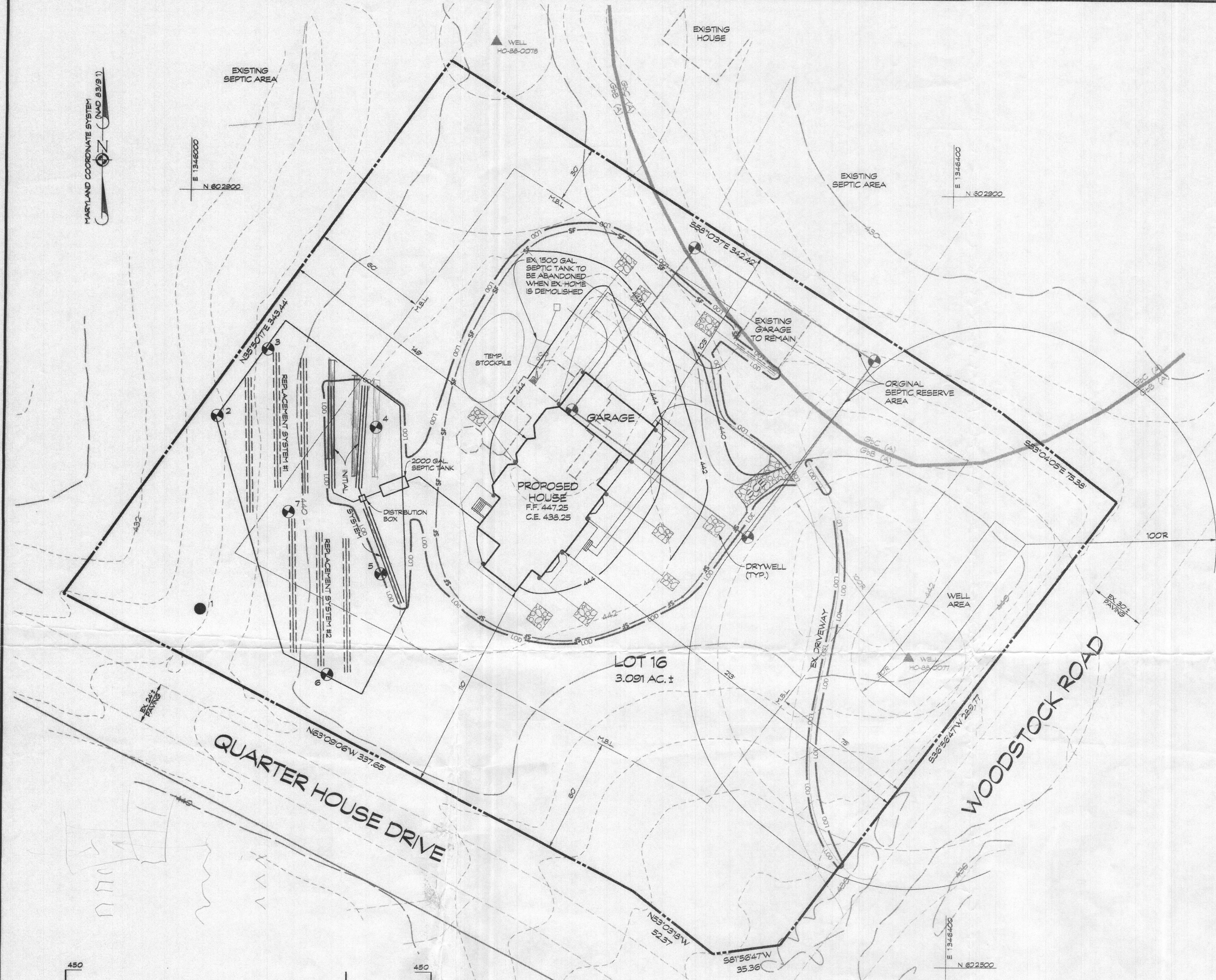
**ONSITE SEWAGE DISPOSAL
SYSTEM DESIGN PLAN
PARKSIDE LOT 16**
3rd ELECTION DISTRICT • HOWARD COUNTY, MD
TAX MAP: 10 • BLOCK: 23 • PARCEL: 36
RECORDED IN PLAT #9682

Signature: [Signature]
Linda D. Alexander
Qualified Professional

CLSI
Engineers • Surveyors • Landscape Architects
www.clsi-civileng.com
439 East Main Street Westminster, MD 21157-5539
(410) 848-1790 FAX (410) 848-1791

Date	Revisions	Drawn By:
		Designed By:
		Reviewed By:
		Date: JAN., 2019
		Scale: 1"=30'
		Job No: 2018190
		Sheet:

CAD Drawing File Name: g:\97230\dwg\sewer\sewer.dwg



SEPTIC SYSTEM TRENCH DESIGN:

PROPOSED NUMBER OF BEDROOMS = 6

INITIAL SYSTEM:
APPLICATION RATE = 1.2
DESIGN FLOW: 150 GALS x 6 BEDROOMS =
900 GAL/DAY
900 GAL/DAY / 1.2 GAL./DAY/SQ. FT. = 750 SQ. FT.
SIDEWALL REDUCTION = 62.5%
750 SQ. FT. x 62.5% / 3 FT. = 156.3
USE 3 x 52 LF. OF TRENCH

REPLACEMENT SYSTEMS 1 & 2
APPLICATION RATE = 0.8
DESIGN FLOW: 150 GALS x 6 BEDROOMS =
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900 GAL/DAY / 0.8 GAL./DAY/SQ. FT. = 1125 SQ. FT.
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PLAN NOTES

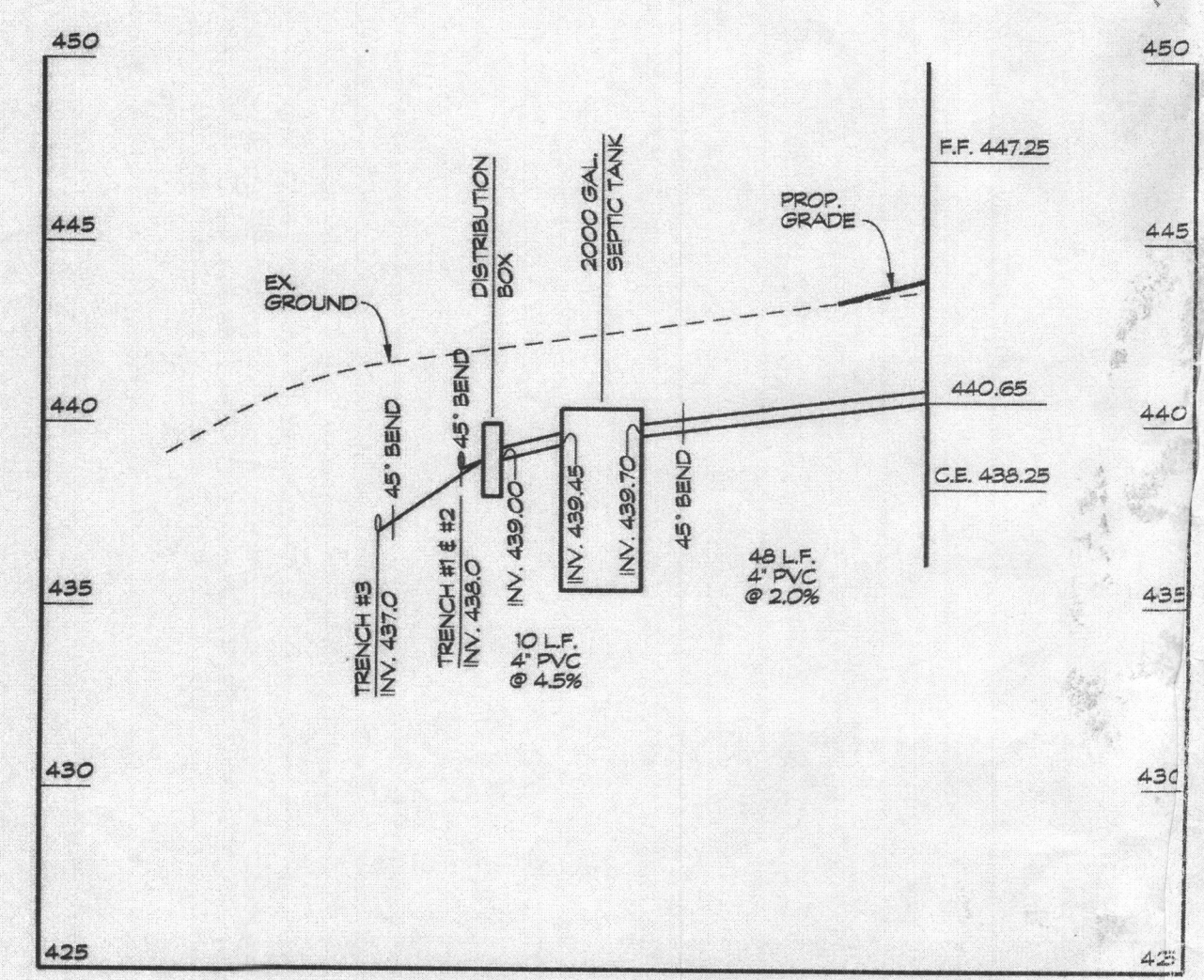
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GENERAL NOTES

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3. THERE ARE NO 30% OR GREATER SLOPES ON THIS LOT.
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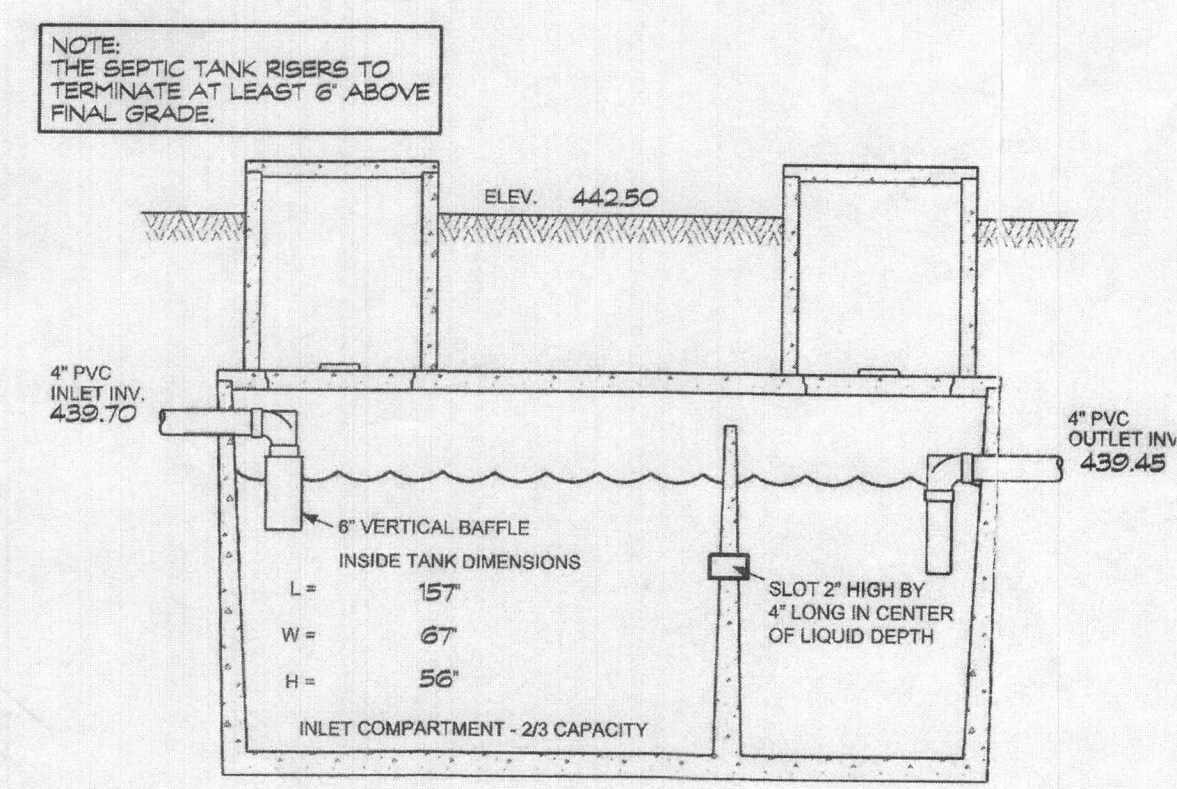
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Howard County Health Department
Mark Oswald 2/8/19
Signature Date

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- LEGEND**
- ▲ EXISTING WELL LOCATION
 - SOL LINES
 - APPROVED SEWAGE DISPOSAL AREA
 - ⊙ APPROVED PERCOLATION TESTS
 - SF SILT FENCE
 - ▨ STABILIZED CONSTRUCTION ENTRANCE
 - L.O.D. LIMIT OF DISTURBANCE



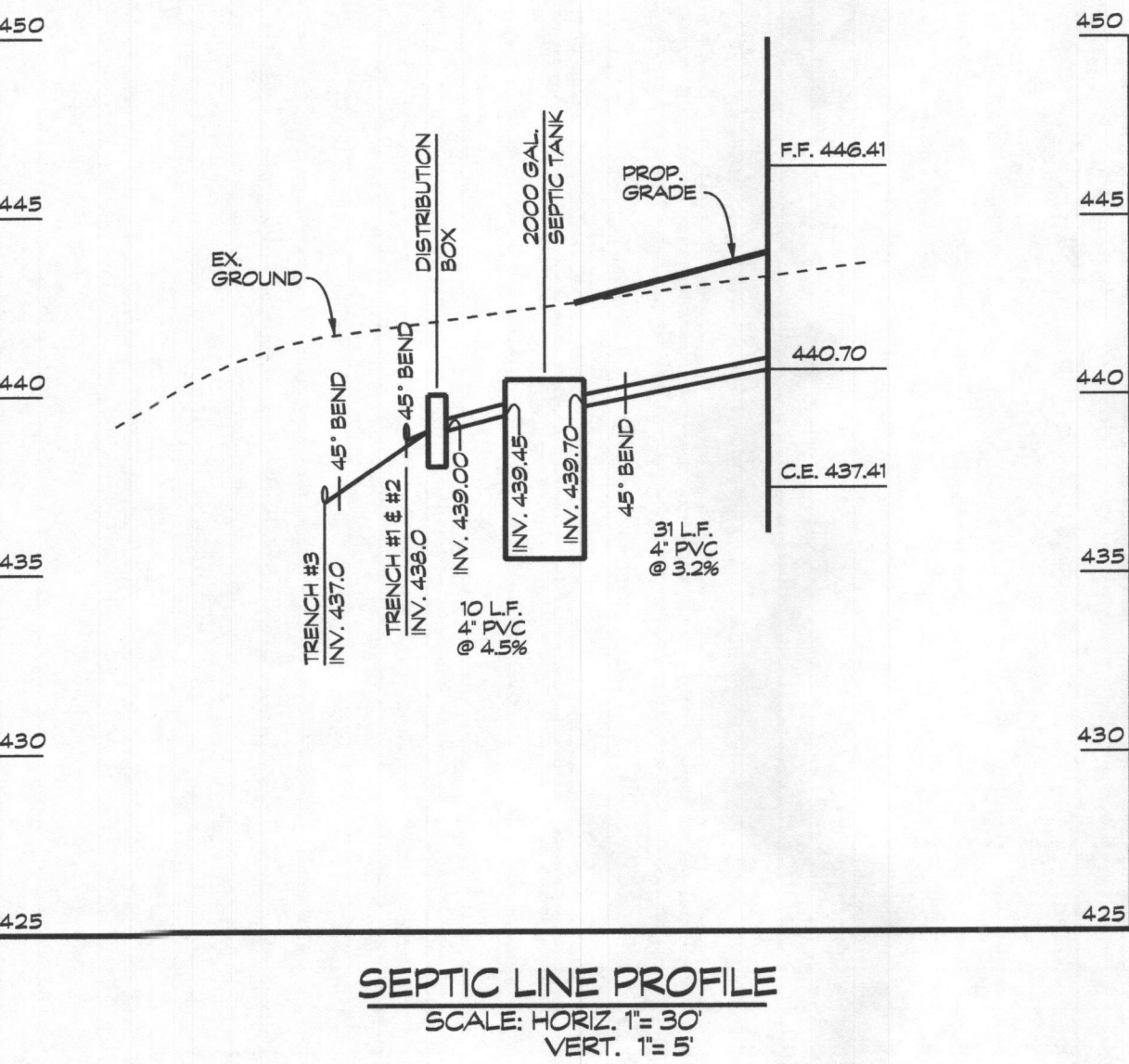
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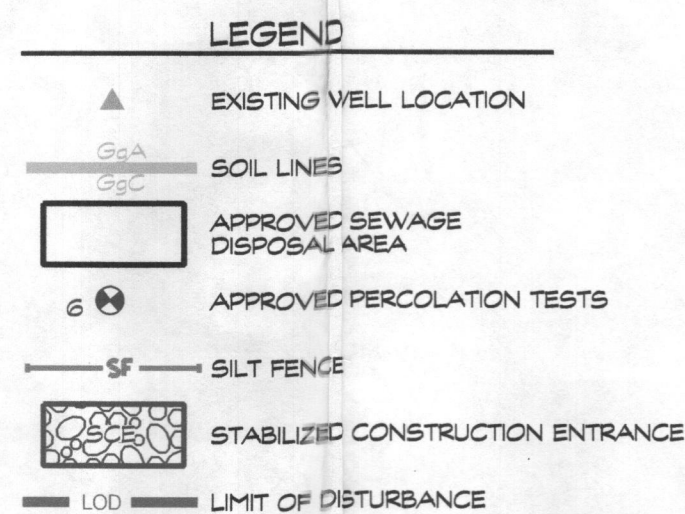
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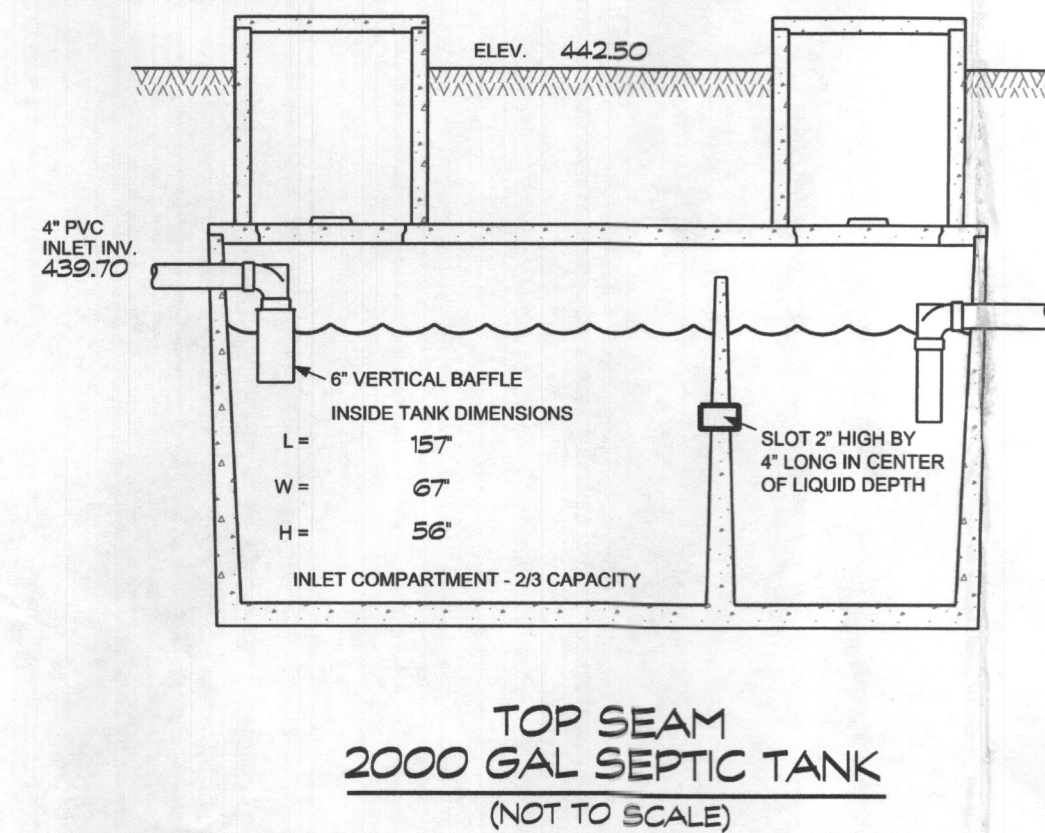
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3	441.0	437.0	434.0



NOTE:
THE SEPTIC TANK RISERS TO
TERMINATE AT LEAST 6" ABOVE
FINAL GRADE.



SEPTIC SYSTEM TRENCH DESIGN:

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INITIAL SYSTEM:
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- THERE ARE NO STREAMS, PONDS, FLOODPLAINS, OR WETLANDS ON THIS LOT.
- THERE ARE NO 20% OR GREATER SLOPES ON THIS LOT.
- THE EXISTING WELL (TAG # HO-88-0077) HAS BEEN FIELD LOCATED BY CLSI AND IS ACCURATELY SHOWN HEREON.

OWNER/DEVELOPER

GUDELL & KHUDAY JA WARD
1820 WOODSTOCK ROAD
WOODSTOCK, MD 21163

ONSITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN

PARKSIDE LOT 16

3rd ELECTION DISTRICT • HOWARD COUNTY, MD
TAX MAP: 10 • BLOCK: 23 • PARCEL: 36
RECORDED IN PLAT #9682



439 East Main Street Westminster, MD 21157-5539
(410) 848-1790 FAX (410) 848-1791

Date	Revisions	Drawn By:
10/8/19	REVISED PER WALL FOUNDATION CERTIFICATION	Designed By:
		Reviewed By:
		Date: JAN., 2019
		Scale: 1" = 30'
		Job No: 2019190
		Sheet:

County File No. F- -

Hole # 5 is 0.8 gpd/ft²

not 1.2 gpd/ft²

$$\frac{900}{1.2} = 750 \div 3 = 250 \text{ (162)} \\ \underline{\underline{155 \text{ LF}}}$$