



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: 05/02/2019 **ONSITE SEWAGE DISPOSAL SYSTEM**

P 565481

APPROVAL DATE: 06/17/2019 **PERMIT: CONSTRUCTION**

A _____

PROPERTY ADDRESS: 1817 Quarter Horse Drive

SUBDIVISION: Parkside LOT: 7 TAX ID: _____

CONTRACTOR: FOGLES EMAIL: _____

CONTRACTOR ADDRESS: 580 OBRECHT ROAD PHONE: 410 795 5670

PROPERTY OWNER: Eric Shepard and Sandra Saltin EMAIL: _____

OWNER ADDRESS: 10548 German Road PHONE: _____

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

PUMP MODEL: 2 PUMP SIZE ✓ PUMP TANK CAPACITY: _____

DISTRIBUTION SYSTEM: ☒ GRAVITY ☐ PRESSURE DOSED BEDROOMS: 4 APPLICATION RATE: _____

TRENCHES:	LINEAR FEET REQUIRED: <u>130.31</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:	PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND TANK LOCATIONS MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.	
NOTES:	Use 2 trenches at 65.16 LF	

ISSUED BY: Hank Oswald ISSUE DATE: 05/02/2019 EXPIRATION DATE: _____

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

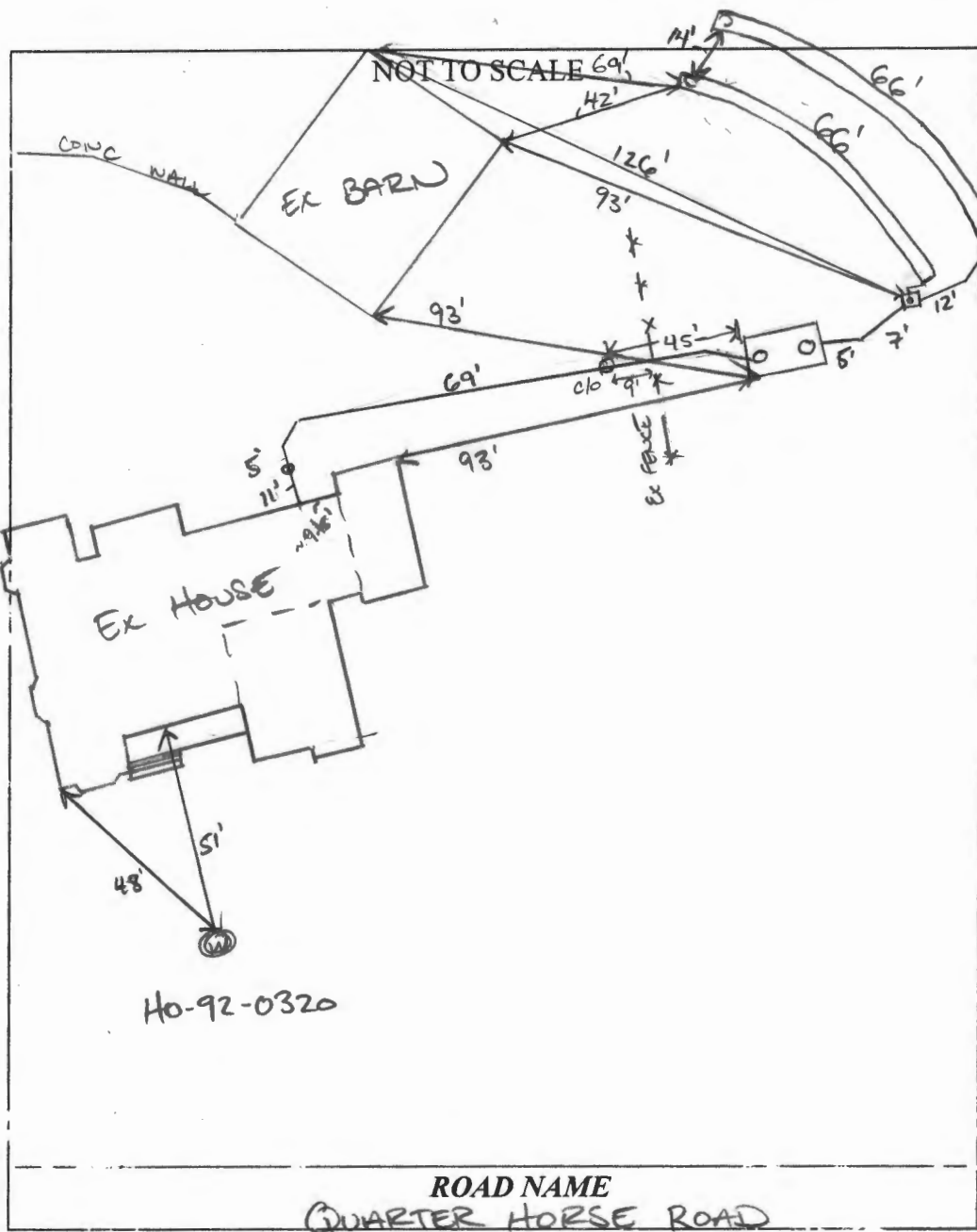
☒ ELECTRICAL PERMIT ISSUED E N/A

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.

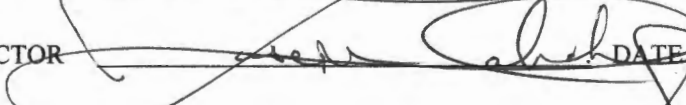


TRENCH/DRAINFIELD DATA		
WIDTH	INLET	BOTTOM
3'	4'	8'
NUMBER OF TRENCHES 2		
TOTAL LENGTH 132 F		
ABSORPTION AREA 396 SF		
DISTRIBUTION BOX LEVEL SPEED		
DISTRIBUTION BOX BAFFLE YES		
DISTRIBUTION BOX PORT YES		

SEPTIC TANK DATA	
SEPTIC TANK 1 LEVEL	YES
MANUFACTURER	BABYLON
CAPACITY	2000 GAL.
SEAM LOC	TOP
TANK LID DEPTH	3'
BAFFLES	YES
BAFFLE FILTER	NO
MANHOLE LOC	FRONT/BACK
6" PORT LOC	-
WATERTIGHT TEST	-
SLOTTED	YES
DATE ON LID	4/2/2019
PUMP/SEPTIC TANK 2 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: 5/28/2019 SDA AND TANK LOCATIONS STAKES HAVE ENTROPIC DECAY, MUST BE RESTAKED. RECOMMENDED TO STAKE FORCE MAIN. @ 5/31/2019 SEWER OUT OF HOUSE LOCATED. TANK + SDA + TRENCH STAKED. CONTOUR CHECKED. 13' ETC. @

INSTALLATION: 6/3/2019 TANK SET. D BOX SET. @ 6/5/2019 TRENCHES COMPLETE. D BOX SET AND TIED INTO SEPTIC TANK AND TRENCHES. REINSPECTION. SPEED LEVEL @ 6/10/2019 D BOX WAS LEVELED W/ SPEED LEVELS. @ 6/17/2019 INSPECTED SAC AND SEWER LINE. COLLAPSING CONDITIONS UNDER DECK. SL UNDERNEATH POWER LINES BETWEEN HOUSE AND BARN, SEVERED AND RECON. DURING CONST AS THEY WERE UNMARKED. SL SLEEVED UNDER DRIVE. FILLED WITH STONE. INLET BAFFLE INSTALLED.

FINAL INSPECTOR  DATE OF APPROVAL 6/17/2019

Oswald, Hank

From: Oswald, Hank
Sent: Monday, July 09, 2018 10:06 AM
To: 'stephanie@fcc-eng.com'
Subject: OSDS Plan_1817 Quarter Horse Drive

Hello Stephanie:

The revised OSDS Plan for 1817 Quarter Horse Drive has been reviewed with the following comments:

- The length of trench before sidewall reduction credit should be 312.5 (not 250)
- The total length of trench should be 130.31 (not 104.25) for all 3 systems.
- The list of elevations next to calculations still do not completely match the elevations in the septic profile.
- The legend symbol for proposed percs still reads the same. Change it to read, Denotes passed perc tests from 2/21/2018.

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

CONFIDENTIALITY NOTICE

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Oswald, Hank

From: Oswald, Hank
Sent: Friday, July 06, 2018 8:02 AM
To: 'Tony Fertitta'
Subject: OSDS Plan Comments_1817 Quarter Horse Drive
Attachments: OSDS Memo To FCC__2018.pdf

Hi Tony:

Attached, please find comments pertaining to the review of 1817 Quarter Horse Drive. Should you have any questions, please don't hesitate to ask.

Hank

**FISHER, COLLINS
& CARTER, INC.**

**CIVIL ENGINEERING CONSULTANTS
and LAND SURVEYORS**

Transmittal

Terrell A. Fisher, P.E., L.S.
Earl D. Collins, P.E.
Charles J. Crovo, Sr., P.E., L.S.

Paul W. Kriebel, P.E.
Mark L. Robel, P.L.S.
Aldo M. Vitucci, P.E.
Frank Manalansan II, L.S.
Stephanie Tuite, RLA, P.E., LEED AP BD&C

Via: ☐ Fax ☐ Mail ☐ Messenger ☐ E-Mail ☒ To Be Picked Up
☐ Fax (original to follow via U.S. Mail)

To: **Bureau of Environmental Health**
7178 Columbia Gateway Dr.
Columbia, MD 21046-4544

Attn: **Hank**
Fax: **(410) 313-2648**
Phone: **(410) 313-2640**

From: **Tony Fertitta**

CC:

Re: **1817 Quarter Horse**

W.O.# **17045**

Date: **June 7, 2018**

Pages: **3** **Page(s) Including this cover**

We are forwarding: ☒ Prints ☐ Copy of Letter ☐ Specifications ☐ Shop drawings ☐ Other
☐ Urgent ☐ For your use ☐ As requested ☐ For Review & Comment

Remarks:

Hank:

Enclosed please find Two (2) prints drawing entitled " Septic Install Plan- 1817 Quarter Horse " dated July 7, 2018. If we may be of any further assistance, please do not hesitate to call.

Very truly yours,

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**FISHER, COLLINS
& CARTER, INC.**

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To: Bureau of Environmental Health	Attn: Hank
7178 Columbia Gateway Dr.	Fax: (410) 313-2648
Columbia, MD 21046-4544	Phone: (410) 313-2640

From: Tony Fertitta	CC:
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Re: 1817 Quarter Horse	W.O.# 17045
Date: June 3, 2018	Pages: 3 Page(s) Including this cover

We are forwarding: <input checked="" type="checkbox"/> Prints <input type="checkbox"/> Copy of Letter <input type="checkbox"/> Specifications <input type="checkbox"/> Shop drawings <input type="checkbox"/> Other					
<input type="checkbox"/> Urgent <input type="checkbox"/> For your use <input type="checkbox"/> As requested <input type="checkbox"/> For Review & Comment					

Remarks:

Hank:

Enclosed please find Two (2) prints drawing entitled " Septic Install Plan- 1817 Quarter Horse " dated July 2, 2018. If we may be of any further assistance, please do not hesitate to call.

Very truly yours,

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PERMIT

SEWAGE DISPOSAL SYSTEM

DEPARTMENT OF HEALTH AND MENTAL HYGIENE

P _____

A 44279

DISTRICT 3rd

DATE _____

DATE SYSTEM APPROVED _____

INSPECTOR _____

HOWARD COUNTY HEALTH DEPARTMENT

BUREAU OF ENVIRONMENTAL HEALTH

~~461-9933~~ 313-2640

IS PERMITTED TO INSTALL X ALTER _____

ADDRESS _____ PHONE _____

SUBDIVISION Parkside LOT 7 ROAD 1817 Quarter Horse Road

PROPERTY OWNER George McGeeney, Jr.

ADDRESS _____

SEPTIC TANK CAPACITY 1250 GALLONS

NUMBER OF BEDROOMS 4

210 SQUARE FEET PER BEDROOM

LINEAR FEET OF TRENCH REQUIRED 210

TRENCHES - Trench to be 2 feet wide. Inlet 4 feet below original grade. Bottom maximum depth 8 feet below original grade. Effective area begins at 4 feet below original grade. 4 feet of stone below distribution pipe.

LOCATION - Start the first trench 150 feet from the front lot line and 75 feet from the right lot line. Run trenches on contour to right side of lot.

NOTES - No trench to exceed 100 feet in length. Provide 6" - 8" diameter cleanout and cap to grade or above on septic tank. OK 4/21/93 BH

PLANS APPROVED BY Mark Rifkin REVISED _____ DATE 3/04/93

COVER NO WORK UNTIL INSPECTED AND APPROVED

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

NOTE: CLEANOUT REQUIRED EVERY 70 FEET OF SEWER LINE AND/OR AT 90° SWEEPS IN LINES FROM HOUSE TO DRAIN FIELDS, 90° ELBOWS NOT ACCEPTABLE.

NOTE: ALL PARTS OF SEPTIC SYSTEMS (I.E. TANK, DISTRIBUTION BOX TRENCHES) TO BE 100 FEET FROM WELL (UNLESS OTHERWISE SPECIFICALLY AUTHORIZED)

NOTE: IF DEEP TRENCH(ES) ARE USED CALL FOR INSPECTION BEFORE AND AFTER PLACING GRAVEL IN TRENCH(ES)

NOTE: NO DRY WELL SHALL EXCEED 15 FOOT IN DIAMETER NO ABSORPTION TRENCH TO EXCEED 100 FEET IN LENGTH

NOTE: ALL PIPE FROM HOUSE TO SEPTIC TANK MUST BE CAST IRON OR SCHEDULE 35/40 PVC OR ABS

PERMIT VOID AFTER TWO YEARS

NOTE: INSTALL STAND PIPE ON SEPTIC TANK AND DRY WELL STAND PIPES MUST BE 6 INCHES IN DIAMETER CAST IRON, CONCRETE OR TERRA COTTA OR PVA OR ABS ACCEPTED. IF TOP OF SEPTIC TANK IS DEEPER THAN 3 FEET. MANHOLE TO GRADE REQUIRED.

NOTE: DISTRIBUTION BOXES MUST HAVE BAFFLES

***INSTALLER IS RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT**

SUBDIVISION:

Parkside
Quarterhorse Dr

LOT NUMBER: 7

A 44279

DRY WELL OR DRY WELL AND TRENCH

	Septic Tank	sq. ft./bedroom
3 bedroom	1000 gallon	Minimum Total Square Feet
4 bedroom	1250 gallon	
5 bedroom	1500 gallon	

Inlet _____ feet below original grade.

Bottom maximum depth _____ feet below original grade.

Effective area begins at _____ feet below original grade.

NOTE: If trench is used to make up absorbent area, run the trench on level ground and leave a 5-foot earth buffer between dry well and trench. No trench is to exceed 100 feet in length. Trench inlet to be same as dry well, with _____ feet of stone below distribution pipe.

TRENCHES

210 sq. ft./bedroom

Trench to be 2 wide.

Inlet 4 feet below original grade.

Bottom maximum depth 8 feet below original grade.

Effective area begins at 4 feet below original grade.

4 feet of stone below distribution pipe.

- NOTE:
- (1) No trench to exceed 100 feet in length.
 - (2) If more than one trench used, a distribution box is required.
 - (3) Trenches to be installed on level ground.
 - (4) Call for inspection of trench before gravel is installed.
 - (5) Provide 6" - 8" diameter cleanout and cap to grade or above on septic tank and drywell.
 - (6) If a garbage disposal is used, increase septic tank capacity by 50% and increase absorbent sidewall area by 22%.

LOCATION: START THE FIRST TRENCH 150' FROM THE
FRONT LOT LINE AND 75' FROM THE RIGHT LOT
LINE. RUN TRENCHES ON CONTOUR TO RIGHT SIDE
OF LOT.

MUR 12/30/92

REVISED MUR 3/4/93

Howard County Health Department

Bureau of Environmental Health, Ellicott City, Md. 461-9933

SEWAGE DISPOSAL PERMIT NO. A-44279 P-_____

PERMITTEE _____

LOCATION Parkside Lot 7 - 1817 Charter House Road

(George McJannet, Jr.)

Do Not Cover Work Until Health Department Approval Appears On This Card

NOTICE

☐

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

Inspector

Date

☐

WORK IS SATISFACTORY, CONTINUE

Inspector

Date

☐

FINAL INSPECTION MADE,
COVER ALL WORK

Inspector

Date

POST THIS CARD WHERE IT CAN BE SEEN FROM ROAD

Transmittal

Via: ☐ Fax ☐ Mail ☐ Messenger ☐ E-Mail ☒ To Be Picked Up
☐ Fax (original to follow via U.S. Mail)

To: **Bureau of Environmental Health**
7178 Columbia Gateway Dr.
Columbia, MD 21046-4544

Attn: **Hank**
Fax: **(410) 313-2648**
Phone: **(410) 313-2640**

From: **Dave Harward**

CC:

Re: **1817 Quarter Horse Drive**

W.O.# **17045**

Date: **Sept. 13, 2018**

Pages: **3** **Page(s) Including this cover**

We are forwarding: ☒ Prints ☐ Copy of Letter ☐ Specifications ☐ Shop drawings ☐ Other
☐ Urgent ☐ For your use ☐ As requested ☐ For Review & Comment

Remarks:

Hank:

For your review & approval, enclosed please find Three (3) updated prints of the drawing entitled " Septic Install Plan- 1817 Quarter Horse Drive. This shows the proposed deck and stairs.

Please leave an approved copy up front for us to pick up. If you any questions, please contact me.

Thanks Hank,

Dave

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Transmittal

Via: ☐ Fax ☐ Mail ☐ Messenger ☐ E-Mail ☒ To Be Picked Up
☐ Fax (original to follow via U.S. Mail)

To: Bureau of Environmental Health 7178 Columbia Gateway Dr. Columbia, MD 21046-4544	Attn: Hank Fax: (410) 313-2648 Phone: (410) 313-2640
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From: Tony Fertitta	CC:
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Re: 1817 Quarter Horse Drive	W.O.# 17045
Date: Sept. 12, 2018	Pages: 3 Page(s) Including this cover

We are forwarding: <input checked="" type="checkbox"/> Prints <input type="checkbox"/> Copy of Letter <input type="checkbox"/> Specifications <input type="checkbox"/> Shop drawings <input type="checkbox"/> Other <input type="checkbox"/> Urgent <input type="checkbox"/> For your use <input type="checkbox"/> As requested <input type="checkbox"/> For Review & Comment
--

Remarks:

Hank:

For your review & approval, enclosed please find Three (3) updated prints of the drawing entitled " Septic Install Plan- 1817 Quarter Horse Drive" dated July 18, 2018, with comments addressed. Please leave an approved copy up front for us to pick up. If you need any further assistance, please do not hesitate to call.

Very truly yours,

Tony

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To: **Bureau of Environmental Health**
7178 Columbia Gateway Dr.
Columbia, MD 21046-4544

Attn: **Hank**
Fax: **(410) 313-2648**
Phone: **(410) 313-2640**

From: **Tony Fertitta**

CC:

Re: **1817 Quarter Horse Drive**

W.O.# **17045**

Date: **July 18, 2018**

Pages: **3** **Page(s) Including this cover**

We are forwarding: ☒ Prints ☐ Copy of Letter ☐ Specifications ☐ Shop drawings ☐ Other
☐ Urgent ☐ For your use ☐ As requested ☐ For Review & Comment

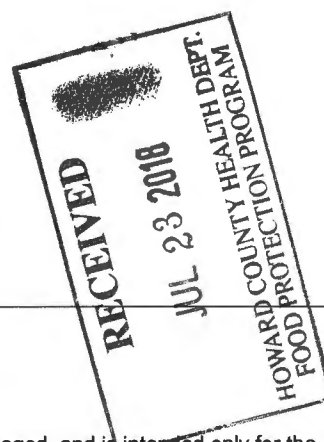
Remarks:

Hank:

For your approval, enclosed please find Three (3) updated prints of the drawing entitled " Septic Install Plan- 1817 Quarter Horse Drive" dated July 18, 2018, with comments addressed. Please leave an approved copy up front for us to pick up. If you need any further assistance, please do not hesitate to call.

Very truly yours,

Tony
FCC



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GENERAL NOTES:

- 1) THIS LOCATION DRAWING IS PREPARED FOR THE BENEFIT OF THE CLIENT SIGNING THE HOUSE LOCATION SURVEY APPROVAL FORM INsofar AS IT IS REQUIRED BY A LENDER OR TITLE INSURANCE COMPANY OR ITS AGENTS IN CONNECTION WITH THE CONTEMPLATED TRANSFER, FINANCING OR REFINANCING OF THE PROPERTY SHOWN HEREON. UNLESS INDICATED AS BEING A BOUNDARY SURVEY, THIS LOCATION DRAWING IS NOT INTENDED FOR USE IN THE ESTABLISHMENT OF PROPERTY LINES AND IS NOT TO BE RELIED UPON FOR THE ESTABLISHMENT OR LOCATIONS OF FENCES, GARAGES, BUILDINGS OR OTHER EXISTING OR FUTURE IMPROVEMENTS. AS A RESULT, THIS LOCATION DRAWING DOES NOT PROVIDE FOR ACCURATE IDENTIFICATION OF PROPERTY LINES, BUT SUCH IDENTIFICATION MAY NOT BE REQUIRED FOR THE TRANSFER OF TITLE OR SECURING FINANCING FOR RE-FINANCING. SUBJECT PROPERTY IS SHOWN IN ZONE X ON THE NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAP OF HOWARD COUNTY, MARYLAND, COMMUNITY PANEL NO. 24027C01300, EFFECTIVE 11/6/2013.
- 2) THE OFFSETS FROM BUILDING LINE TO PROPERTY LINE AS SHOWN ON THE PLAT HEREON ARE TO AN ACCURACY OF PLUS OR MINUS 0.5'.
- 3) NO TITLE REPORT FURNISHED. SUBJECT TO ALL EASEMENTS, RIGHTS OF WAY AND CONDITIONS OF RECORD.
- 4) THE EXISTING WELL(S) SHOWN ON THIS PLAN (IDENTIFIED WITH THE ATTACHED WELL TAG NUMBER HO-92-0320) HAS BEEN FIELD LOCATED BY FISHER, COLLINS AND CARTER, INC. PROFESSIONAL LAND SURVEYORS AND IS ACCURATELY SHOWN.
- 5) PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED BY ME OR UNDER MY RESPONSIBLE CHARGE, AND THAT I AM A DULY LICENSED PROPERTY LINE SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 339, EXPIRATION DATE 10/04/2020.
- 6) BUILDING PERMIT #B-18002742.
- 7) BUILDING PERMIT #B-18002742.

RECEIVED
MAY 07 2019
HOWARD COUNTY HEALTH DEPT.
FOOD PROTECTION PROGRAM

SEWAGE EASEMENT
SHOWN IS BASED ON THE
PERC CERTIFICATION PLAN
DATED MARCH 9, 2018
AND SIGNED BY THE
HOWARD COUNTY HEALTH
DEPARTMENT

Quarter Horse
Drive
(50' Public Road R/W)

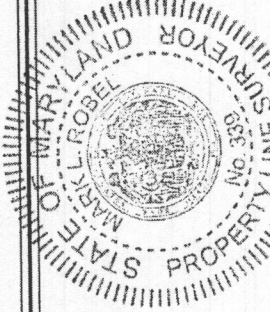
LOT 8
PARKSIDE
PLAT No. 9681-9683

LOT 6
PARKSIDE
PLAT No. 9681-9683

LOT 7

LOT 7
PARKSIDE
LOT 5-17
A RESUBDIVISION OF "BRACCIALE
PROPERTY LOTS 1, 2, 3 AND 4"
PLAT NOS. 9681 THRU 9683
THIRD ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

HOUSE LOCATION
DRAWING



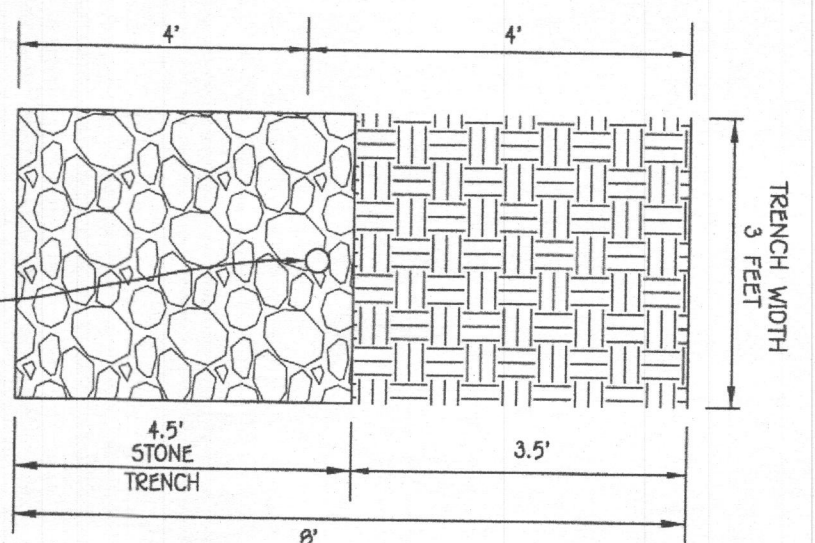
FOUNDATION LOCATION: 10/23/18
FINAL LOCATION:
BOUNDARY SURVEY:
SCALE: 1"=30'
DATE: 10/26/18
DRAWN BY: MD
CHECKED BY: MLR
PROJECT NO.: 17045-6021

Mark J. Fisher
PROPERTY LINE SURVEYOR
REG. #339
DATE: 10/26/18

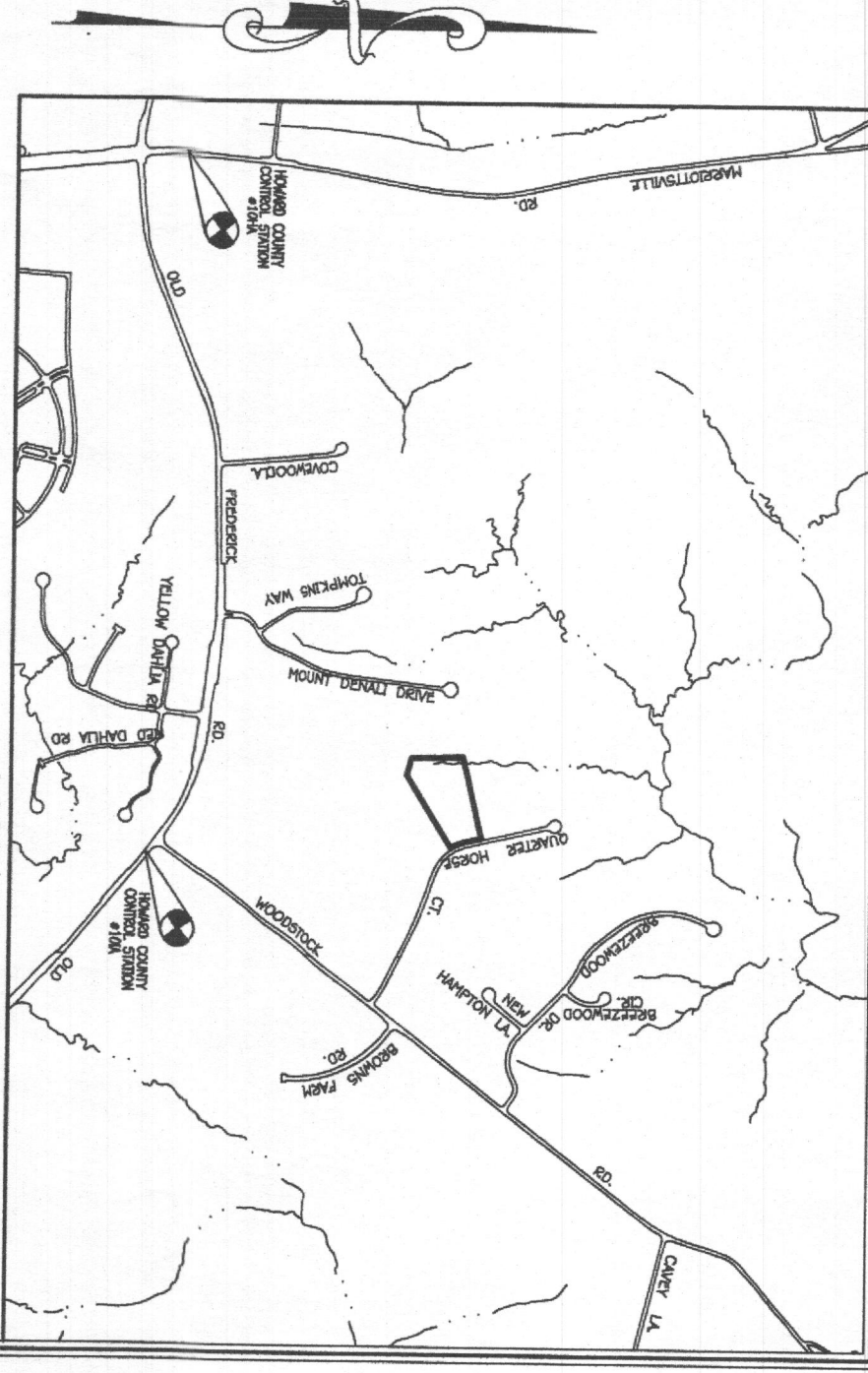
#1017 QUARTER HORSE DRIVE
B.R.L. = BUILDING RESTRICTION LINE
TOP OF FOUNDATION ELEVATION = 445.1'

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTRAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PLE
ELLCOTT CITY, MARYLAND 21042
(410) 461-1292

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 LICENSED ELECTRICIAN SHALL BE REQUIRED.
2. THE MAXIMUM PITCH FOR THE TANK IS 3 FEET. GREATER EARTH COVER WILL REQUIRE A HEAVY LOAD BEARING TANK.
3. ELECTRICAL WORK FOR THE INSTALLATION MUST BE PERFORMED BY A LICENSED ELECTRICIAN.
4. ALL WELLS HO-92-0320 HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN.
5. 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.



TRENCH DATA:	
TRENCH 1:	EX. GROUND ABOVE = 433.7
	INV. IN = 425.7
	BOTTOM TRENCH = 425.7
TRENCH 2:	EX. GROUND ABOVE = 432.5
	INV. IN = 428.5
	BOTTOM TRENCH = 424.5



VICINITY MAP
SCALE: 1" = 1200'

- LEGEND
- EXISTING 2' CONTOURS
 - EXISTING 10' CONTOURS
 - EXISTING TREE LINE
 - SOIL LINES AND TYPES
 - DENOTES PROPOSED WELL
 - DENOTES FIELD PECC
 - DENOTES PASSED PECC
 - DENOTES PASSED PECC TESTS FROM 2/21/2016
 - DENOTES 1500 SQ-FT. ALTERNATE WELL SITE

INITIAL SYSTEM

SEWAGE DISPOSAL SYSTEM DATA DESIGN FOR 5 BEDROOMS (PERMIT FOR 4 BEDROOMS).

LOADING RATE = 15 BEDROOMS X 150 GPD/BEDROOM = 750 GPD

APPLICATION RATE = 0.8

EFFECTIVE SIDEWALL BEGINS AT 4 FEET

TRENCH DEPTH = 8 FEET

TRENCH WIDTH (W) = 3 FEET

EFFECTIVE DEPTH (D) = 3 FEET

5' OF DEANFIELD = 750 GPD / 0.8 = 937.5 SF

COEFFICIENT OF REDUCTION OF TRENCH LENGTH = (W+2)/(W+1+2D) = (3+2)/(3+1+(2x3)) = 0.417

TRENCH LENGTH = 312.5 SF X 0.417 = 130.31 FEET

(USE 2 TRENCHES AT 65.16 LF)

TRENCH SPACING = 20'-W = (2x2) + 3) = 7' USE 10'

1ST REPLACEMENT SYSTEM

SEWAGE DISPOSAL SYSTEM DATA DESIGN FOR 5 BEDROOMS (PERMIT FOR 4 BEDROOMS).

LOADING RATE = 15 BEDROOMS X 150 GPD/BEDROOM = 750 GPD

APPLICATION RATE = 0.8

EFFECTIVE SIDEWALL BEGINS AT 4 FEET

TRENCH DEPTH = 8 FEET

TRENCH WIDTH (W) = 3 FEET

EFFECTIVE DEPTH (D) = 3 FEET

5' OF DEANFIELD = 750 GPD / 0.8 = 937.5 SF

COEFFICIENT OF REDUCTION OF TRENCH LENGTH = (W+2)/(W+1+2D) = (3+2)/(3+1+(2x3)) = 0.417

TRENCH LENGTH = 312.5 SF X 0.417 = 130.31 FEET

(USE 2 TRENCHES AT 65.16 LF)

TRENCH SPACING = 20'-W = (2x2) + 3) = 7' USE 10'

Approved Septic System Plan
Howard County Health Department
Heck Oswald
Signature
Date 9/7/18

2ND REPLACEMENT SYSTEM

SEWAGE DISPOSAL SYSTEM DATA DESIGN FOR 5 BEDROOMS (PERMIT FOR 4 BEDROOMS).

LOADING RATE = 15 BEDROOMS X 150 GPD/BEDROOM = 750 GPD

APPLICATION RATE = 0.8

EFFECTIVE SIDEWALL BEGINS AT 4 FEET

TRENCH DEPTH = 8 FEET

TRENCH WIDTH (W) = 3 FEET

EFFECTIVE DEPTH (D) = 3 FEET

5' OF DEANFIELD = 750 GPD / 0.8 = 937.5 SF

COEFFICIENT OF REDUCTION OF TRENCH LENGTH = (W+2)/(W+1+2D) = (3+2)/(3+1+(2x3)) = 0.417

TRENCH LENGTH = 312.5 SF X 0.417 = 130.31 FEET

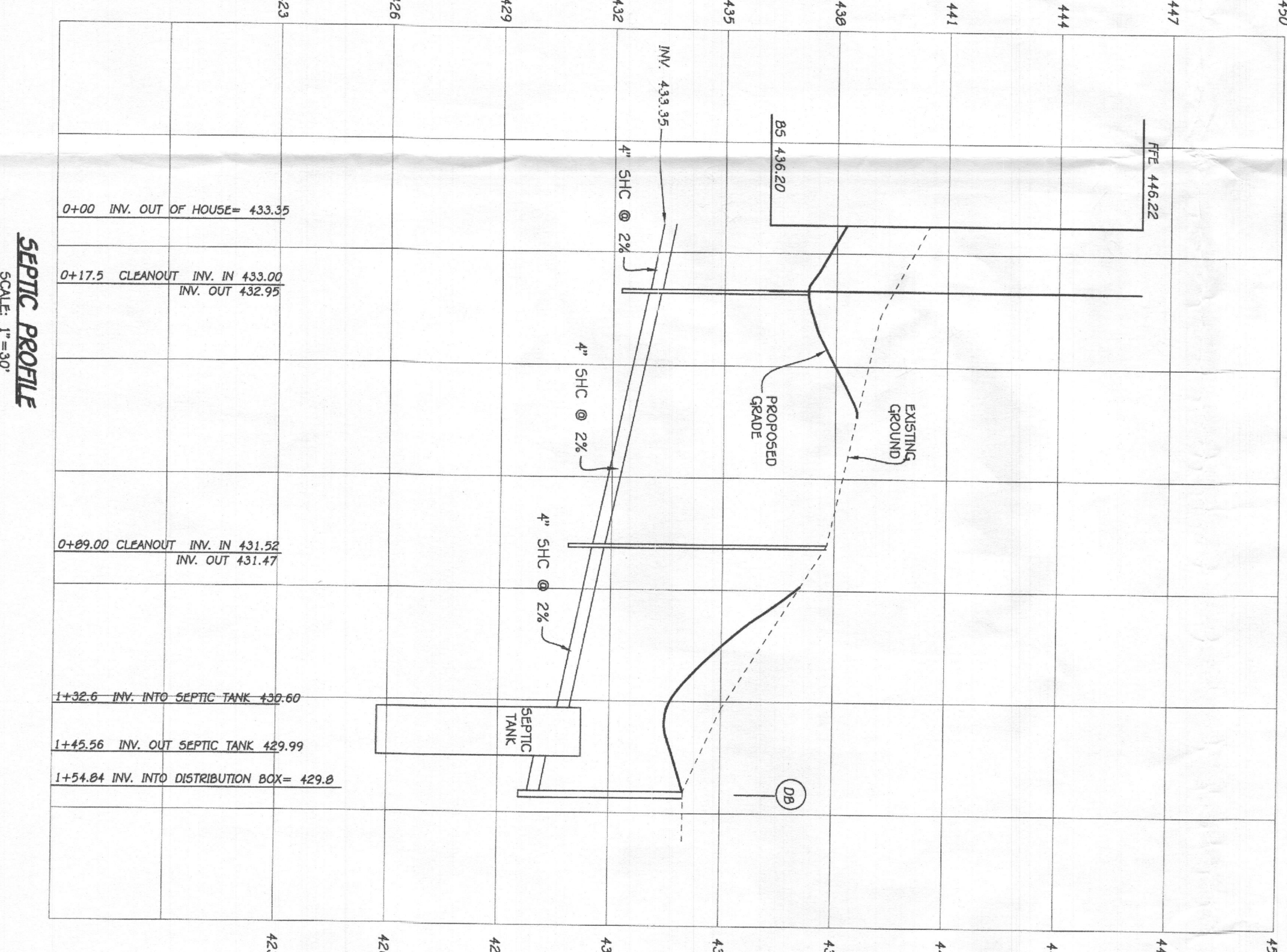
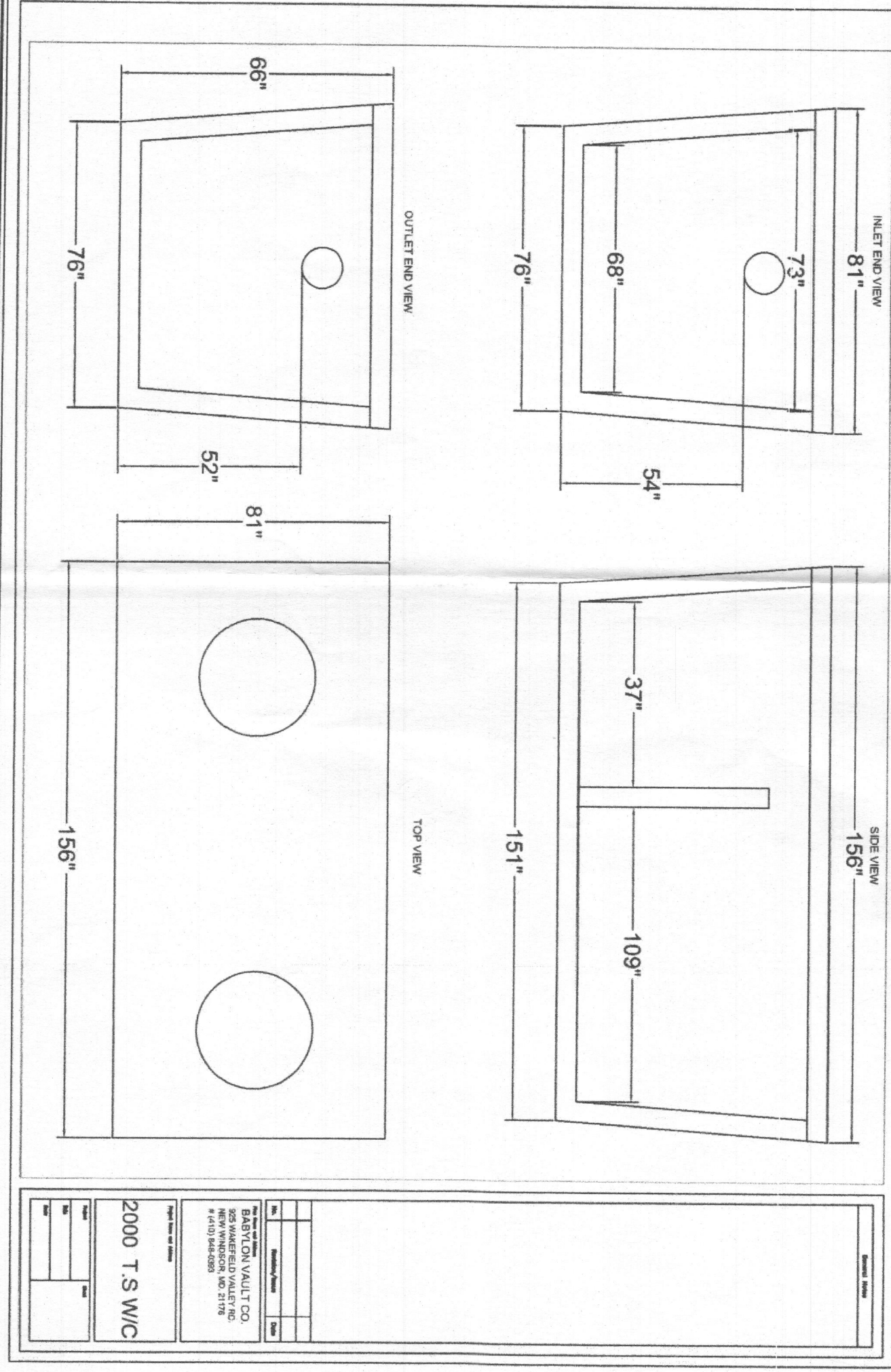
(USE 2 TRENCHES AT 65.16 LF)

TRENCH SPACING = 20'-W = (2x2) + 3) = 7' USE 10'



PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AS A PROFESSIONAL ENGINEER IN THE STATE OF MARYLAND, LICENSE NO. 207146, EXPIRATION DATE 02/22/2019.
Signature of Professional Engineer
Date 9/3/18

SOILS LEGEND		
SOIL	NAME	CLASS
GqB	Glennville loam, 3 to 8 percent slopes	B
GnB	Glennville silt loam, 3 to 8 percent slopes	C
GnB	Glennville-Coderus silt loams, 0 to 8 percent slopes	C
HgB	Holm-Barnetown sandy loams, 15 to 25 percent slopes, rocky	B
HgB	Holm-Barnetown sandy loams, 25 to 65 percent slopes, rocky	B

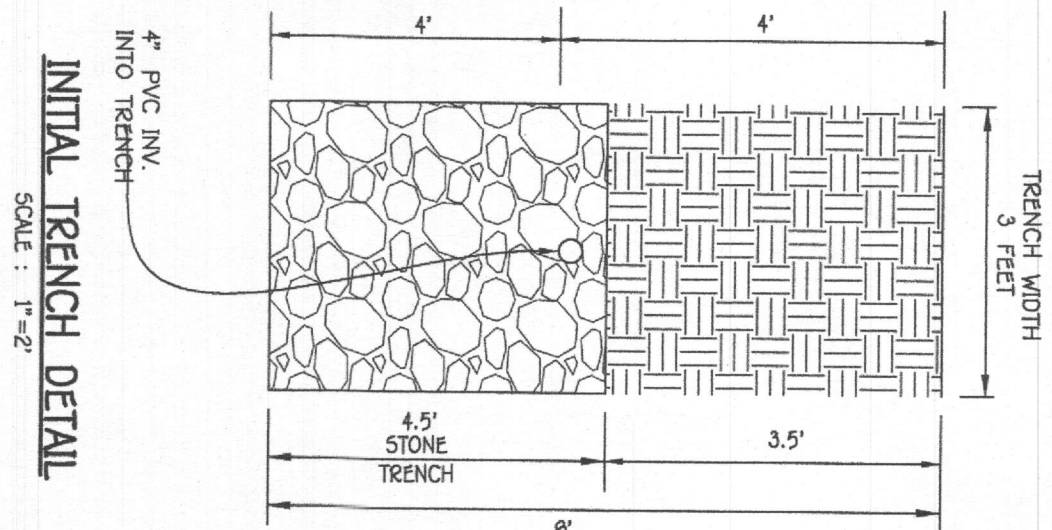


SEPTIC PROFILE
SCALE: 1" = 30'

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING, CONSULTING & LAND SURVEYING
CENTRAL SQUARE OFFICE PARK - 10272 BAYVIEW NATIONAL PKWY.
BETHESDA, MARYLAND 20814
(410) 461-2899

SEPTIC INSTALL PLAN
1817 QUARTER HORSE DRIVE
PARCEL: 36
3RD ELECTION DISTRICT
TAX MAP # 10
HOWARD COUNTY, MARYLAND
DATE: SEPT. 13, 2018

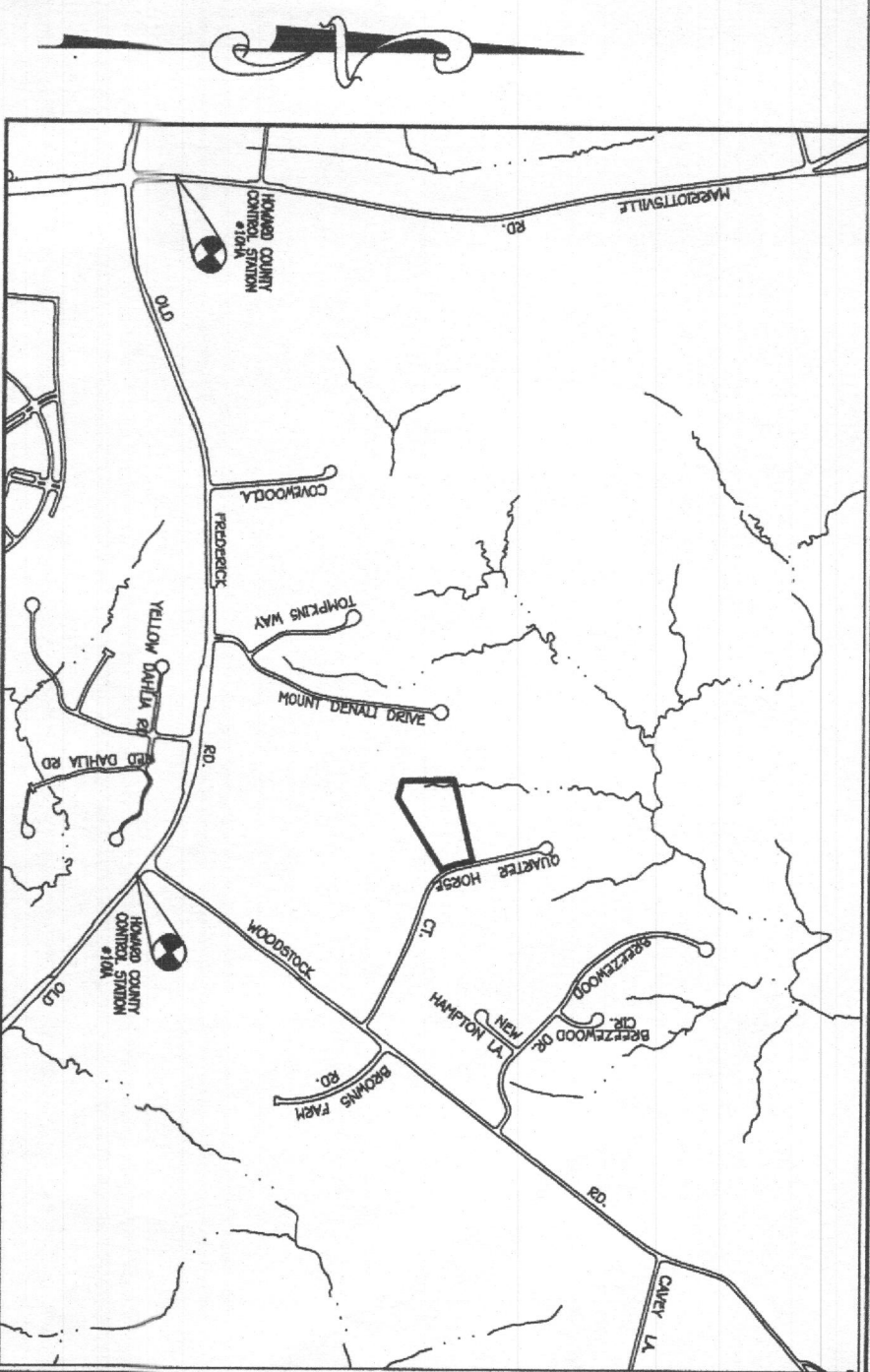
1. ANY CHANGE TO THE LOCATIONS OR DEPTHS TO ANY COMPONENTS MUST BE APPROVED BY THE ENGINEER AND THE HOWARD COUNTY HEALTH DEPARTMENT PRIOR TO INSTALLATION. A PERMIT MUST BE OBTAINED PRIOR TO INSTALLATION.
2. THE MAXIMUM EARTH COVER OVER THE TANK IS 3 FEET. GREATER EARTH COVER WILL REQUIRE A HEAVY LOAD BEARING TANK.
3. ELECTRICAL WORK FOR THE INSTALLATION MUST BE PERFORMED BY A LICENSED ELECTRICIAN.
4. THE WELL HO-92-0320 HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN.
5. 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.



TRENCH DATA:

TRENCH 1:
EX. GROUND ABOVE = 433.7
INV. IN = 429.7
BOTTOM TRENCH = 425.7

TRENCH 2:
EX. GROUND ABOVE = 432.5
INV. IN = 428.5
BOTTOM TRENCH = 424.5



INITIAL SYSTEM

SEWAGE DISPOSAL SYSTEM DATA. DESIGN FOR 5 BEDROOMS (PERMIT FOR 4 BEDROOMS).

LOADING RATE = 5 BEDROOMS X 150 GPD/BEDROOM = 750 GPD

APPLICATION RATE = 0.8

EFFECTIVE SIDEWALL BEGINS AT 4 FEET

TRENCH DEPTH = 8 FEET

TRENCH WIDTH (W) = 3 FEET

EFFECTIVE DEPTH (D) = 4 FEET

SF OF DEANFIELD = 750 GPD / 0.8 = 937.5 SF

COEFFICIENT OF REDUCTION OF TRENCH LENGTH = (W+2)/(W+1+2D)=(3+2)/(3+1+2(4))=0.417

TRENCH LENGTH = 312.5 SF X 0.417 = 130.31 FEET

(USE 2 TRENCHES AT 65.16 LF.)

TRENCH SPACING = 20+W = (2(2) + 3) = 7' USE 10'

1ST REPLACEMENT SYSTEM

SEWAGE DISPOSAL SYSTEM DATA. DESIGN FOR 5 BEDROOMS (PERMIT FOR 4 BEDROOMS).

LOADING RATE = 5 BEDROOMS X 150 GPD/BEDROOM = 750 GPD

APPLICATION RATE = 0.8

EFFECTIVE SIDEWALL BEGINS AT 4 FEET

TRENCH DEPTH = 8 FEET

TRENCH WIDTH (W) = 3 FEET

EFFECTIVE DEPTH (D) = 4 FEET

SF OF DEANFIELD = 750 GPD / 0.8 = 937.5 SF

COEFFICIENT OF REDUCTION OF TRENCH LENGTH = (W+2)/(W+1+2D)=(3+2)/(3+1+2(4))=0.417

TRENCH LENGTH = 312.5 SF X 0.417 = 130.31 FEET

(USE 2 TRENCHES AT 65.16 LF.)

TRENCH SPACING = 20+W = (2(2) + 3) = 7' USE 10'

2ND REPLACEMENT SYSTEM

SEWAGE DISPOSAL SYSTEM DATA. DESIGN FOR 5 BEDROOMS (PERMIT FOR 4 BEDROOMS).

LOADING RATE = 5 BEDROOMS X 150 GPD/BEDROOM = 750 GPD

APPLICATION RATE = 0.8

EFFECTIVE SIDEWALL BEGINS AT 4 FEET

TRENCH DEPTH = 8 FEET

TRENCH WIDTH (W) = 3 FEET

EFFECTIVE DEPTH (D) = 4 FEET

SF OF DEANFIELD = 750 GPD / 0.8 = 937.5 SF

COEFFICIENT OF REDUCTION OF TRENCH LENGTH = (W+2)/(W+1+2D)=(3+2)/(3+1+2(4))=0.417

TRENCH LENGTH = 312.5 SF X 0.417 = 130.31 FEET

(USE 2 TRENCHES AT 65.16 LF.)

TRENCH SPACING = 20+W = (2(2) + 3) = 7' USE 10'



PROFESSIONAL CERTIFICATION

I, **HOWARD COUNTY**, HAVE THESE DOCUMENTS WERE REVIEWED AND APPROVED BY ME.

DATE: **9/13/18**

SIGNATURE: **Howard County**

SOILS LEGEND		
SOIL	NAME	CLASS
GpB	Glendell loam, 3 to 8 percent slopes	B
GpB	Glendell silt loam, 3 to 8 percent slopes	B
GpB	Glendell-Codorus silt loams, 0 to 8 percent slopes	C
MgD	Minor-Barnetown sandy loams, 15 to 25 percent slopes, rocky	B
MgF	Minor-Barnetown sandy loams, 25 to 65 percent slopes, rocky	B

SEPTIC INSTALL PLAN

1817 QUARTER HORSE DRIVE

TAX MAP # 10

36D ELECTION DISTRICT

PARCEL: 36

HOWARD COUNTY, MARYLAND

DATE: SEPT. 13, 2018

FISHER COLLINS & CARTER, INC.

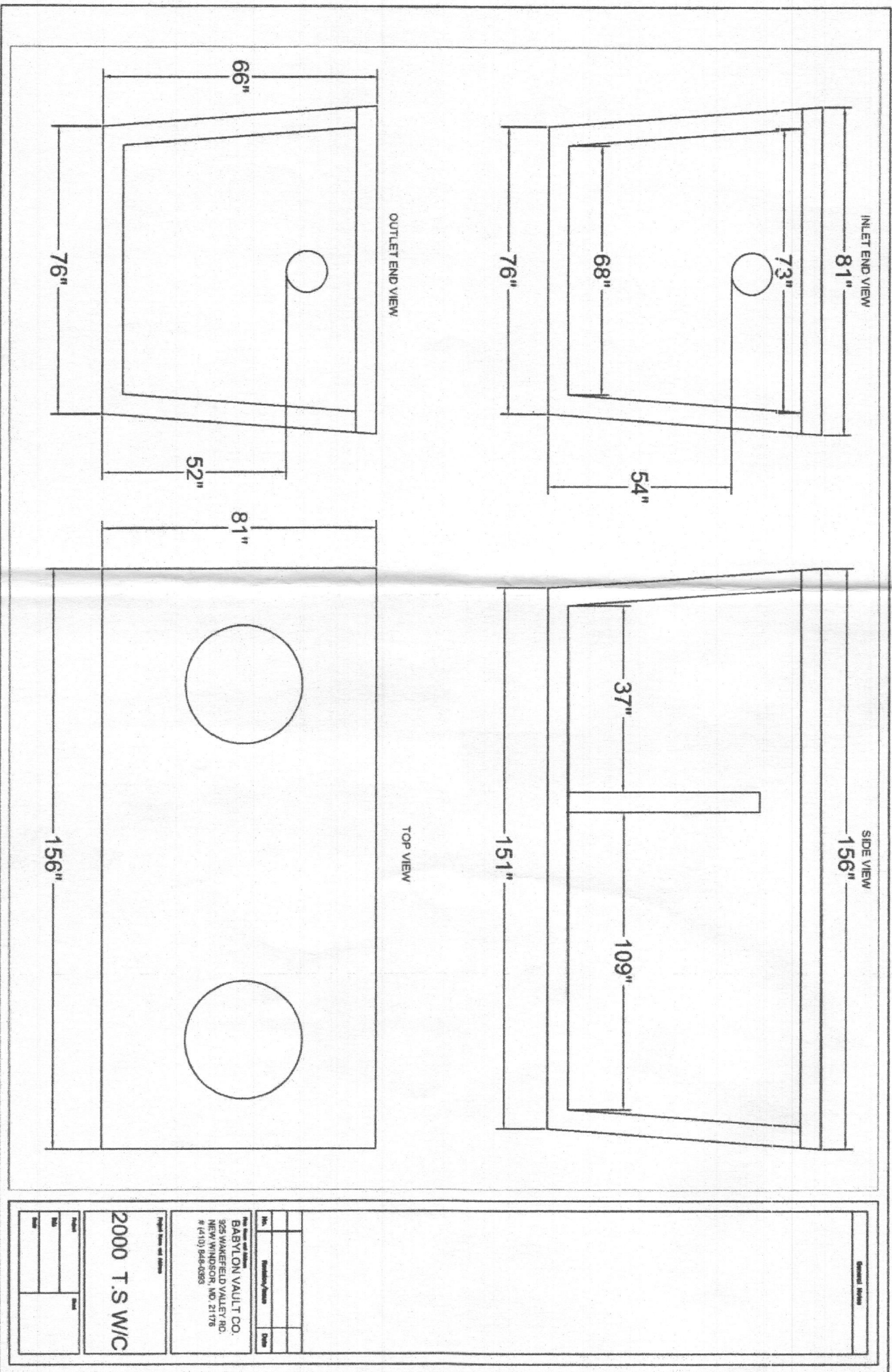
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS

1100 E. 41st Street, Suite 200, Annapolis, MD 21403

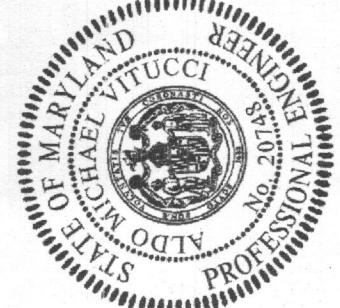
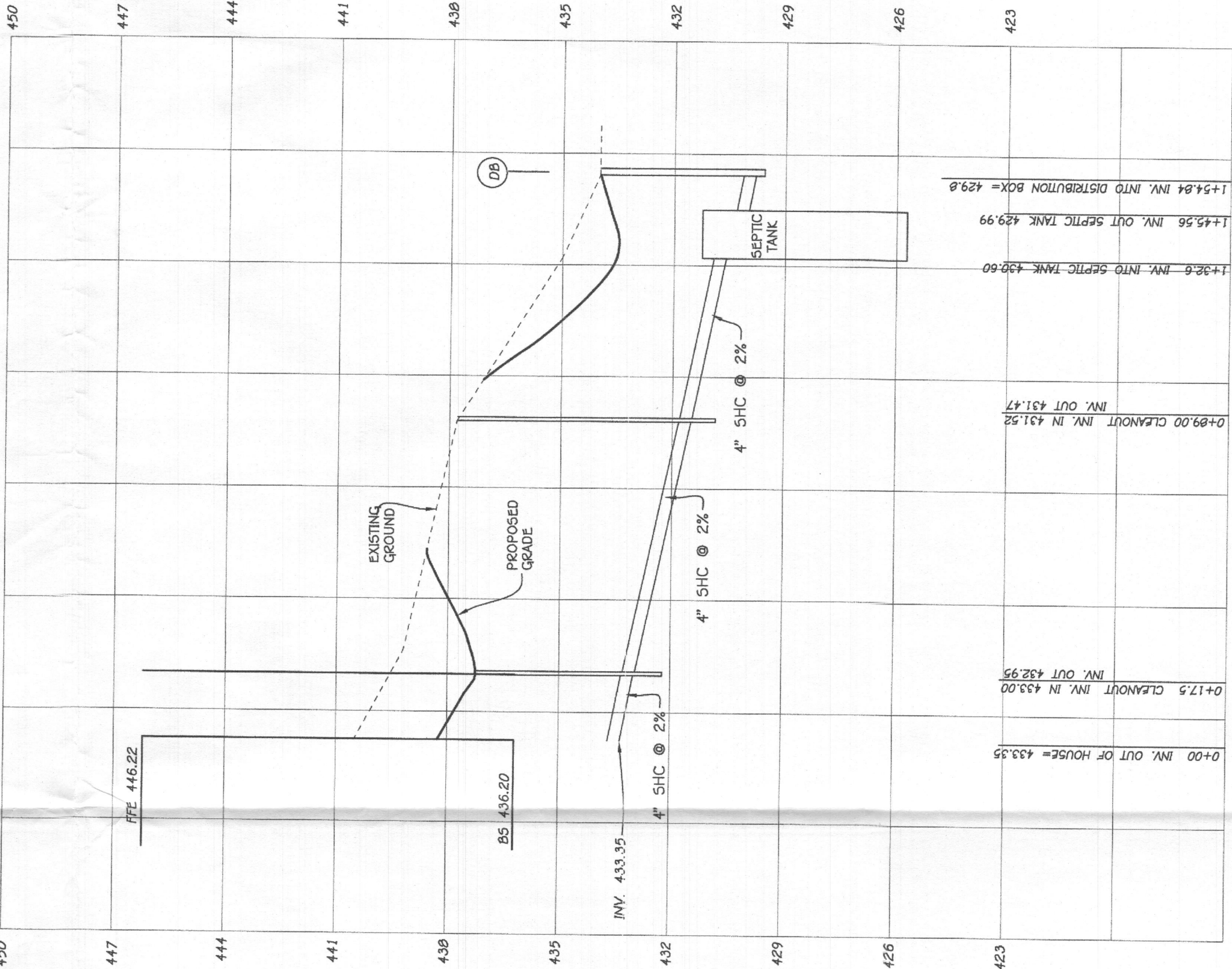
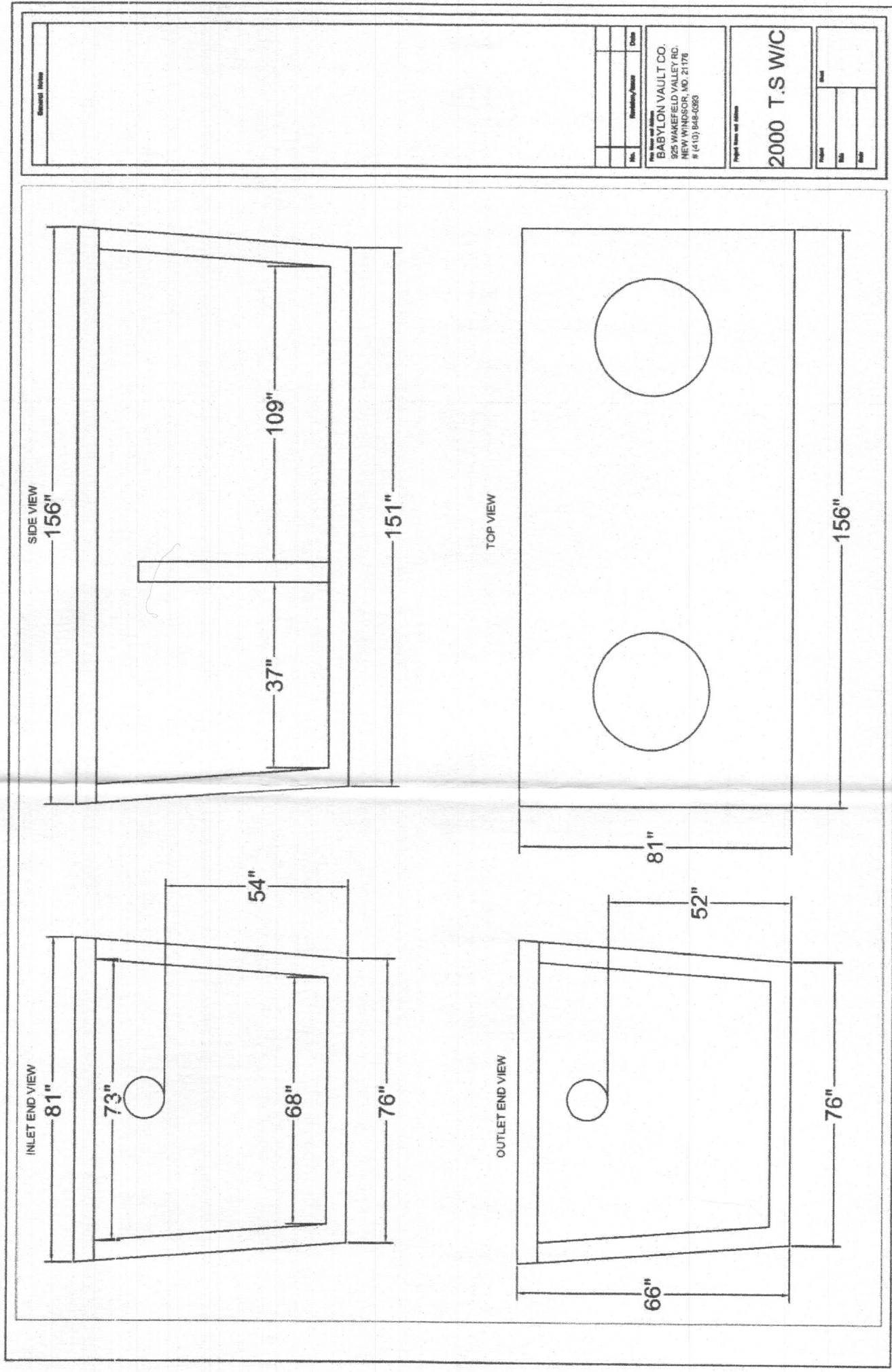
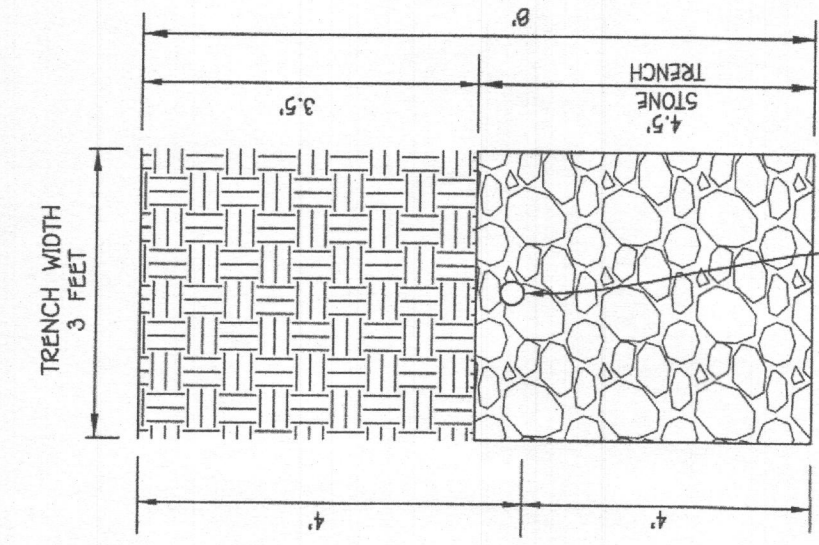
(410) 461-2225



SCALE: 1" = 40'



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 MINIMUM EARTH COVER OVER THE TANK IS 3 FEET. GREATER EARTH COVER WILL REQUIRE THE TANK BE HEAVILY REINFORCED.
3. ELECTRICAL WORK FOR THE INSTALLATION MUST BE PERFORMED BY A LICENSED ELECTRICIAN.
4. THE WELL HO-92-0320 HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN.
5. ALL WELLS AND SEPTIC SYSTEMS LOCATED WITHIN 1.00' OF THE PROPERTY BOUNDARIES AND 200' DOWN GRADIENT OF ANY WELLS AND/OR SEPTIC SYSTEMS HAVE BEEN SHOWN.



SOILS LEGEND		
SOIL	NAME	CLASS
Ggb	Glenelg loam, 3 to 6 percent slopes	B
Gmb	Glenville silt loam, 3 to 6 percent slopes	C
Gsb	Glenville-Codonus silt loams, 0 to 6 percent slopes	C
MpD	Manor-Bannertown sandy loams, 15 to 25 percent slopes, rocky	B
MpF	Manor-Bannertown sandy loams, 25 to 65 percent slopes, rocky	D

1817 QUARTER HORSE DRIVE
SEPTIC INSTALL PLAN

TAX MAP # 10
3RD ELECTION DISTRICT
SCALE: 1"=40'
PARCEL: 36
HOWARD COUNTY, MARYLAND
DATE: SEPT. 13, 2018