



# Howard County Health Department

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

## 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](https://www.facebook.com/hocohealth)

RECEIPT DATE: 7/13/2020 **ONSITE SEWAGE DISPOSAL SYSTEM**

P 567896

APPROVAL DATE: 08/14/2020 **PERMIT: CONSTRUCTION**

A

PROPERTY ADDRESS: 131520 TRIADDELPHIA MILL ROAD, CLARKSVILLE, MD 21029

SUBDIVISION: PROPERTY OF NADU A TUAKLI

LOT: 2

TAX ID:

05-594473

CONTRACTOR:

McMaster Excavating  
Sasha Lindsey Builders

EMAIL:

CONTRACTOR ADDRESS:

345 Gun Club Rd New Oxford Pa

PHONE:

410-207-9844

PROPERTY OWNER: ANTHONY M and KRISTINE R RIBAS

EMAIL:

17381

OWNER ADDRESS: 10917 JARBOE AVE., SILVER SPRING, MD 20901

PHONE:

301-465-0882

SEPTIC TANK SIZE (GALLONS): 2000

TANK MANUFACTURER:

BABYLON

PUMP MODEL: n.a.

PUMP SIZE

n.a.

PUMP TANK CAPACITY:

n.a.

DISTRIBUTION SYSTEM:



GRAVITY



PRESSURE DOSED

BEDROOMS:

5

APPLICATION RATE:

0.8

TRENCHES:	LINEAR FEET REQUIRED:	<u>194</u>	INLET DEPTH:	<u>4.0</u>
	TRENCH WIDTH:	<u>3</u>	MAXIMUM BOTTOM DEPTH:	<u>6.0</u>
	MINIMUM SPACE BETWEEN TRENCHES:	<u>10</u>	EFFECTIVE AREA BEGINNING DEPTH:	<u>4.0</u>
LOCATION:	PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND TANK LOCATIONS MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.			
NOTES:	INSTALL INITIAL TRENCH SYSTEM AT LOW BOUNDARY OF SEWAGE DISPOSAL AREA. INSTALL CLEANOUT IN SHC			

ISSUED BY: R BRICKER

ISSUE DATE:

EXPIRATION DATE: 7/13/2021

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.

NOT TO SCALE

SEE ATTACHED  
AS BUILT

ROAD NAME

**TRENCH/DRAINFIELD DATA**

WIDTH INLET BOTTOM

3' 4' 6'

NUMBER OF TRENCHES 2

TOTAL LENGTH 194 F

ABSORPTION AREA 582 SF + SIDE WALL

DISTRIBUTION BOX LEVEL SPEED

DISTRIBUTION BOX BAFFLE YES

DISTRIBUTION BOX PORT YES

**SEPTIC TANK DATA**

SEPTIC TANK 1 LEVEL

MANUFACTURER BABILON

CAPACITY 2000 GAL

SEAM LOC TOP

TANK LID DEPTH 6" @ INSP.

BAFFLES YES

BAFFLE FILTER NO

MANHOLE LOC FRONT/BACK

6" PORT LOC

WATERTIGHT TEST -

SLOTTED YES

DATE ON LID 07/02/2020

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:

8/12/20 Laid out trenches - moved ~~2nd~~ both trenches closer to edge of SDA to remain on contour. SHC will come out of back of house. Moved ST closer to house to ease construction and leave more room for future pump tank. (ST)

INSTALLATION: 08/14/2020 SHC, SL, TANK, DBX, TRENCHES INSTALLED. (LEVELLED) DBX WITH SPEED LEVELS. OK TO COVER (✓)

FINAL INSPECTOR

DATE OF APPROVAL

08/14/2020



NOT TO SCALE

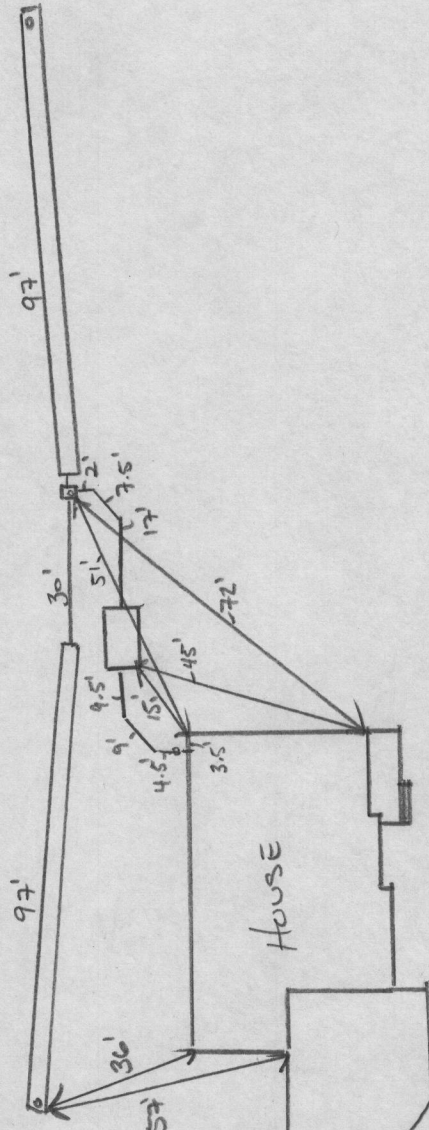
⑫ Ho-95-2180

TO 13170  
D IS REMOVED

DRIVE IS COMMON

DRIVE

HOUSE



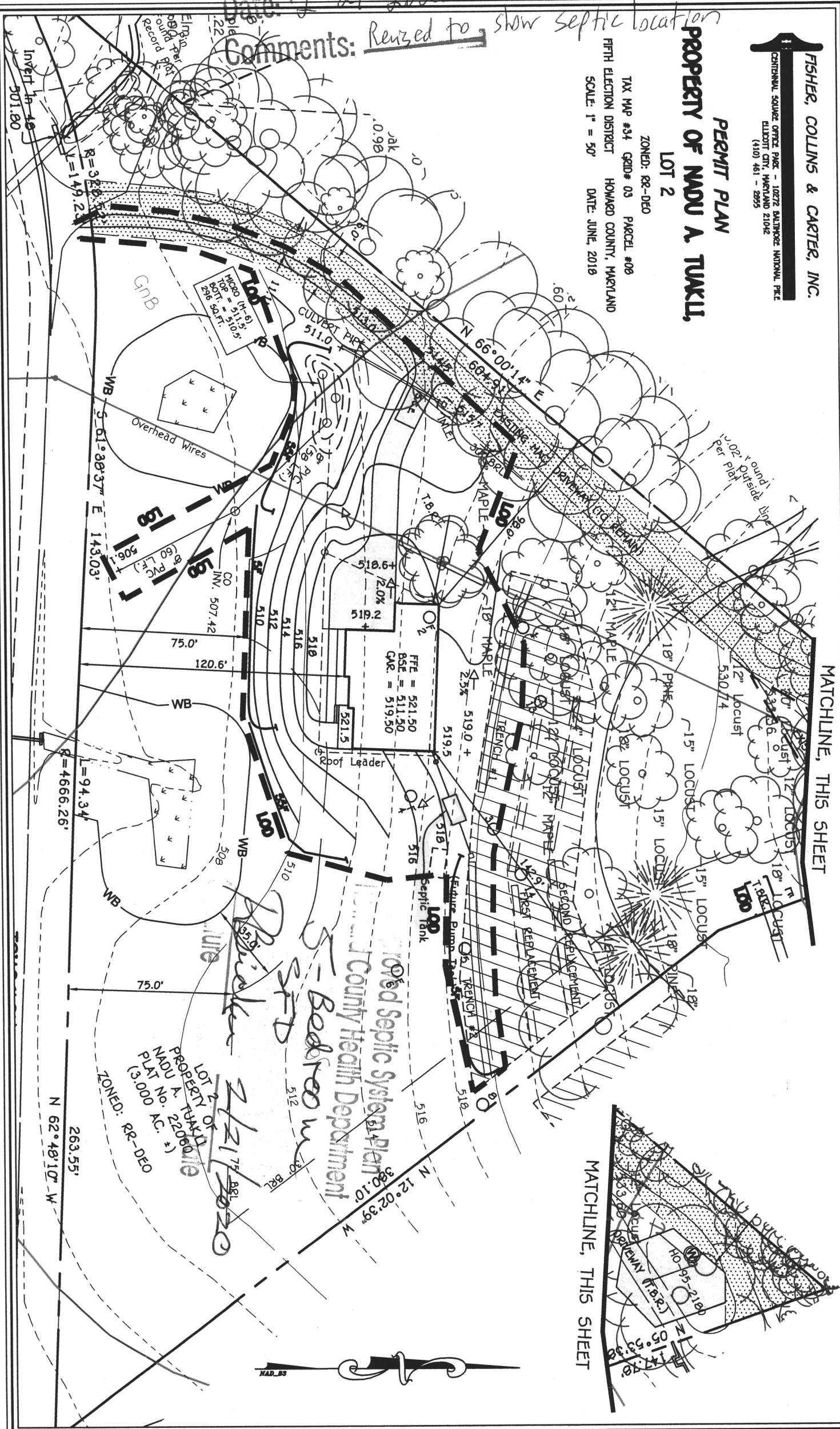
13150 TRIADDELPHIA MILL ROAD

FISHER, COLLINS & CARTER, INC.  
CONTINENTAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE  
ELLSWORTH CITY, MARYLAND 21042  
(410) 461 - 2255

**PERMIT PLAN**  
**PROPERTY OF MADU A. TUKULI**  
**LOT 2**

ZONED: RR-DEO  
TAX MAP #34 GRID# 03 PARCEL #08  
FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
SCALE: 1" = 50' DATE: JUNE, 2018

REVISED  
Date: 2-21-2020  
Comments: Revised to show septic location



MATCHLINE, THIS SHEET

MATCHLINE, THIS SHEET

LOT 2 OF  
PROPERTY OF  
MADU A. TUKULI  
PLAT No. 22060116  
(3.000 AC.)  
ZONED: RR-DEO

Proposed Septic System Plan  
Howard County Health Department  
380.10'

Bedroom  
Bathroom  
2/21/2020



SOILS LEGEND			
SOIL	NAME	CLASS	K FACTOR
GgB	Glenelg loam, 3 to 8 percent slope	B	.20
GgC	Glenelg loam, 8 to 15 percent slope	B	.20
GnB	Glenelg-Baile silt loams, 0 to 8 percent slope	C	.37
Soil Map Number: 16 (Clarksville, MD)			

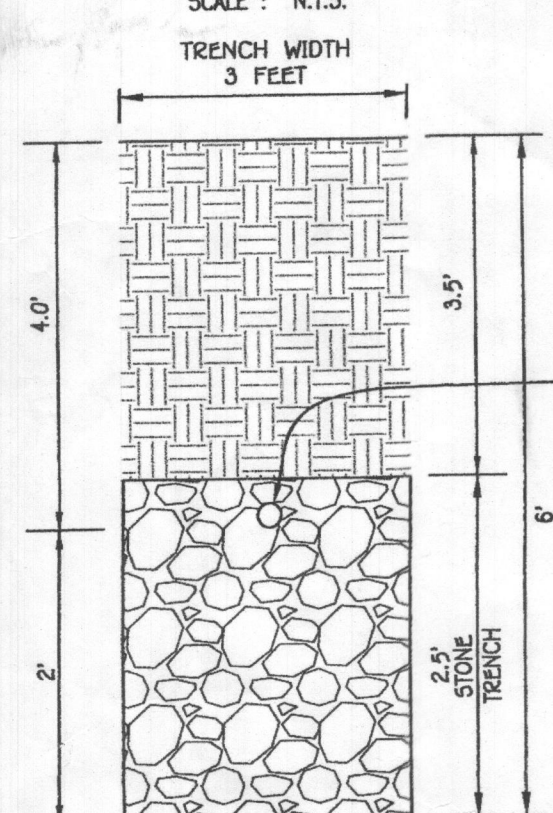
- NOTES:
1. ANY CHANGE TO THE LOCATIONS OR DEPTHS TO ANY COMPONENTS MUST BE APPROVED BY THE ENGINEER AND THE HOWARD COUNTY HEALTH DEPARTMENT PRIOR TO INSTALLATION. A REVISED SITE PLAN MAY BE REQUIRED.
  2. THE MAXIMUM EARTH COVER OVER THE TANK IS 3 FEET. GREATER EARTH COVER WILL REQUIRE A HEAVY LOAD BEARING TANK.
  3. THE WELL HO-95-2180 HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN.
  4. 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. IF FUTURE WELL IS LOCATED CLOSER THAN 10 FEET TO THE DRIVEWAY, BOLLARDS MUST BE PLACED TO PROTECT THE NEW WELL.
  5. WHEN THE INITIAL DRAINFIELD FAILS, AND A REPLACEMENT DRAINFIELD IS NEEDED, A PUMP TANK WITH PUMP MUST BE INSTALLED TO LIFT THE SEPTIC TANK EFFLUENT TO THE ELEVATION OF THE DISTRIBUTION PIPE INVERT FOR THE REPLACEMENT DRAINFIELD.



SEPTIC SYSTEM DATA

FIRST FLOOR ELEV. (FFE) = 521.50  
BASEMENT SLAB ELEV. (BSE) = 511.50  
INV. OUT OF HOUSE = 516.66  
PROP. GROUND AT CLEANOUT #1 = 519.4  
INV. INTO CLEANOUT = 516.56  
INV. OUT OF CLEANOUT = 516.46  
EX. GROUND AT SEPTIC TANK = 518.5  
PROP. GRADE ABOVE SEPTIC TANK = 518.8  
TOP OF SEPTIC TANK = 517.12  
COVER OVER TANK = 1.38'  
INV. INTO SEPTIC TANK = 516.12  
BOTT. OF SEPTIC TANK = 511.62  
INV. OUT OF SEPTIC TANK = 515.95  
EX. GROUND AT DISTRIBUTION BOX = 519.5  
INV. INTO DISTRIBUTION BOX = 515.65  
INV. OUT OF DISTRIBUTION BOX = 515.55

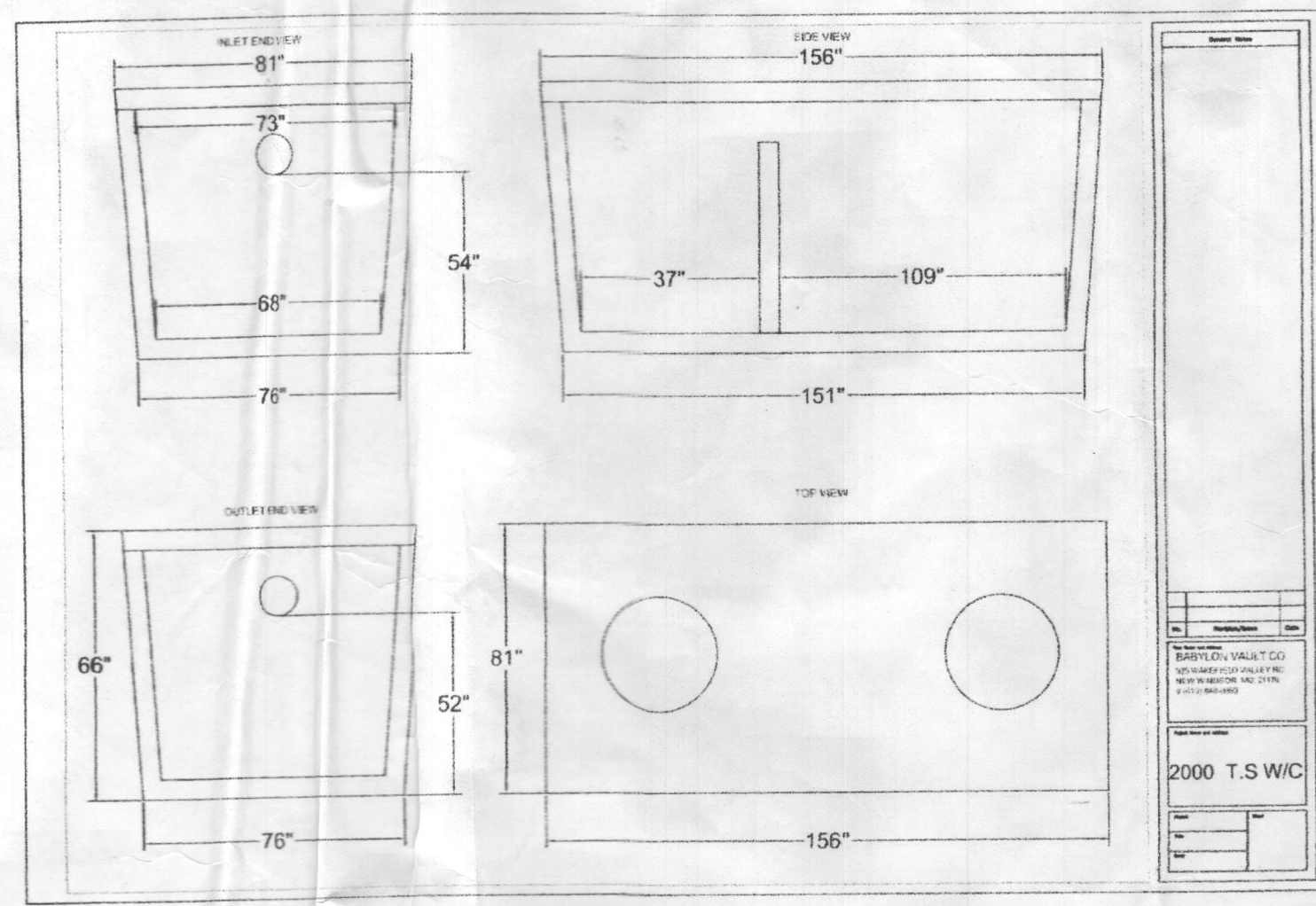
INITIAL TRENCH DETAIL



TRENCH DATA:

TRENCH 1:  
EX. GROUND ABOVE = 519.5'  
INV. IN = 515.5'  
BOTTOM TRENCH = 513.5'

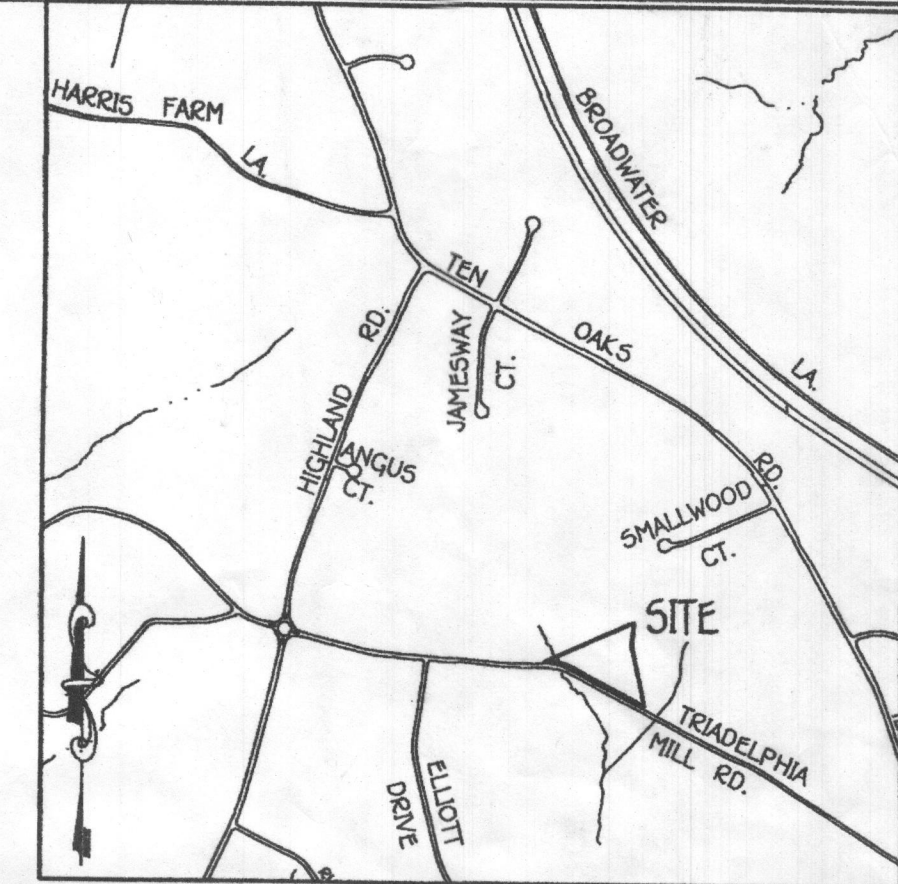
TRENCH 2:  
EX. GROUND ABOVE = 519.5  
INV. IN = 515.5  
BOTTOM TRENCH = 513.5



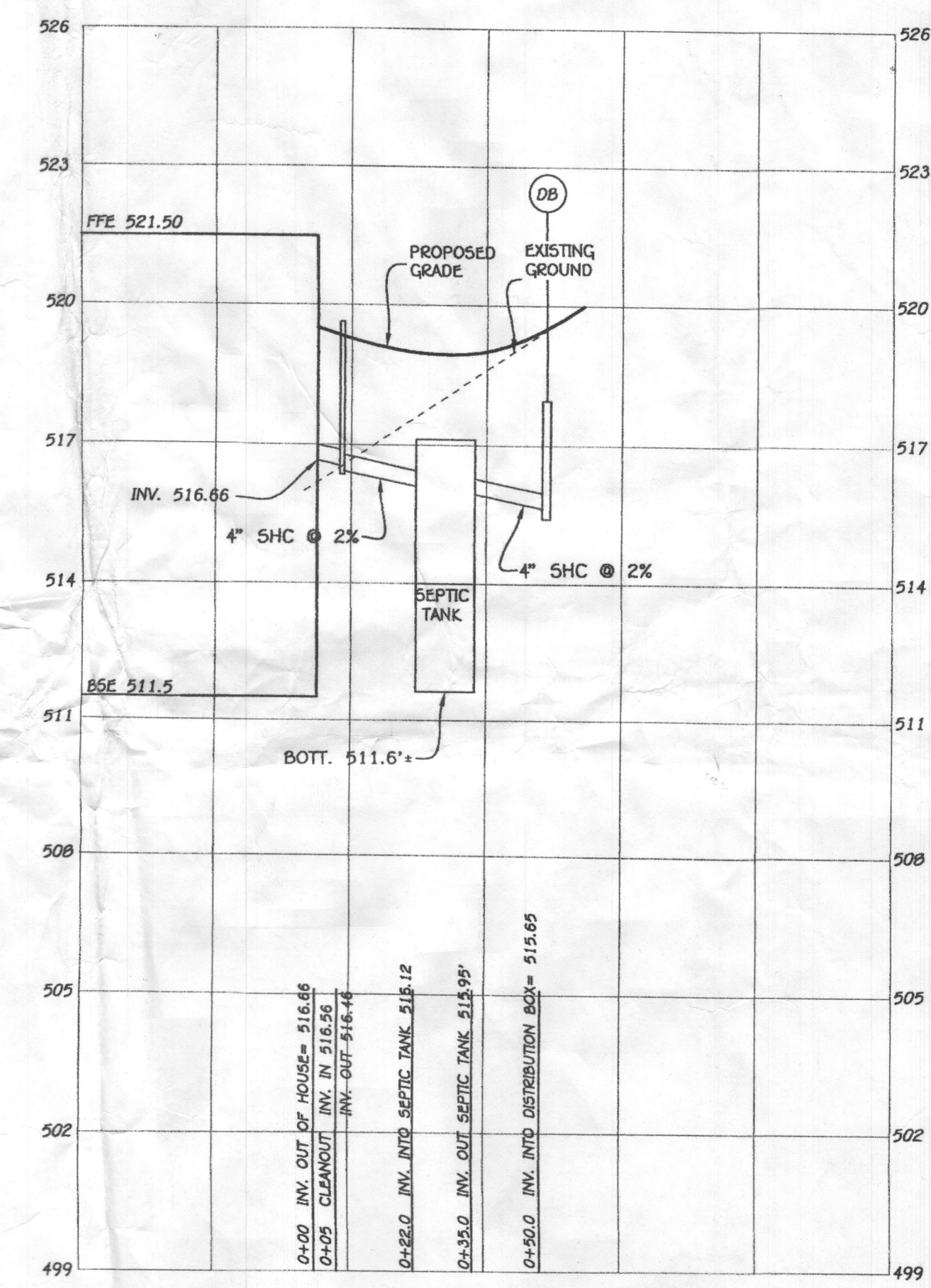
INITIAL SYSTEM

SEWAGE DISPOSAL SYSTEM DATA, DESIGN FOR 5 BEDROOMS  
LOADING RATE = 5 BEDROOMS X 150 GPD/BEDROOM = 750 GPD  
APPLICATION RATE = 0.8  
EFFECTIVE SIDEWALL BEGINS AT 4.0 FEET  
TRENCH DEPTH (D) = 6.0 FEET  
TRENCH WIDTH (W) = 3 FEET  
EFFECTIVE DEPTH (D) = 3.5 FEET  
SF OF DRAINFIELD = 750 GPD / 0.8 = 937.5 SF  
COEFFICIENT OF REDUCTION OF TRENCH LENGTH = (W+2)/(W+1+2D) = (3+2)/(3+1+(2x3.5)) = 0.45  
TRENCH LENGTH = 312.5 SF x 0.45 = 140.62 FEET (USE 2 TRENCHES AT 70.31 L.F.)  
TRENCH SPACING = 2D+W = ((2x2) + 3) = 7' USE 10'

- LEGEND
- EXISTING 2' CONTOURS
  - EXISTING 10' CONTOURS
  - EXISTING TREE LINE
  - SOIL LINES AND TYPES
  - (W) DENOTES EXISTING WELL
  - (O) DENOTES PASSED PERC
  - (F) DENOTES FAILED PERC
  - DENOTES 1500 SQFT WELL BOX



VICINITY MAP  
SCALE: 1" = 1200'



1ST REPLACEMENT SYSTEM

SEWAGE DISPOSAL SYSTEM DATA, DESIGN FOR 5 BEDROOMS  
LOADING RATE = 5 BEDROOMS X 150 GPD/BEDROOM = 750 GPD  
APPLICATION RATE = 0.8  
EFFECTIVE SIDEWALL BEGINS AT 3.5 FEET  
TRENCH DEPTH (D) = 7 FEET  
TRENCH WIDTH (W) = 3 FEET  
EFFECTIVE DEPTH (D) = 3.5 FEET  
SF OF DRAINFIELD = 750 GPD / 0.8 = 937.5 SF  
COEFFICIENT OF REDUCTION OF TRENCH LENGTH = (W+2)/(W+1+2D) = (3+2)/(3+1+(2x3.5)) = 0.45  
TRENCH LENGTH = 312.5 SF x 0.45 = 140.62 FEET (USE 2 TRENCHES AT 70.31 L.F.)  
TRENCH SPACING = 2D+W = ((2x2) + 3) = 7' USE 10'

2ND REPLACEMENT SYSTEM

SEWAGE DISPOSAL SYSTEM DATA, DESIGN FOR 5 BEDROOMS  
LOADING RATE = 5 BEDROOMS X 150 GPD/BEDROOM = 750 GPD  
APPLICATION RATE = 0.8  
EFFECTIVE SIDEWALL BEGINS AT 3.5 FEET  
TRENCH DEPTH (D) = 7 FEET  
TRENCH WIDTH (W) = 3 FEET  
EFFECTIVE DEPTH (D) = 3.5 FEET  
SF OF DRAINFIELD = 750 GPD / 0.8 = 937.5 SF  
COEFFICIENT OF REDUCTION OF TRENCH LENGTH = (W+2)/(W+1+2D) = (3+2)/(3+1+(2x3.5)) = 0.45  
TRENCH LENGTH = 312.5 SF x 0.45 = 140.62 FEET (USE 2 TRENCHES AT 70.31 L.F.)  
TRENCH SPACING = 2D+W = ((2x2) + 3) = 7' USE 10'

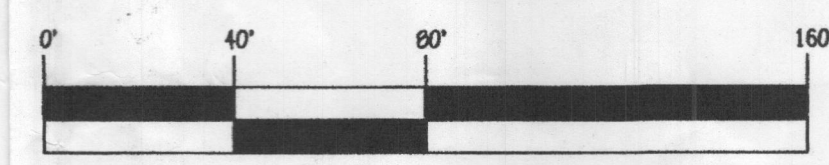
FISHER, COLLINS & CARTER, INC.  
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
CENTRAL SOURCE OFFICE PARK - 10772 BALTIMORE NATIONAL PIKE  
ELICOTT CITY, MARYLAND 21042  
(410) 481-1222

OWNER/DEVELOPER  
BEECHWOOD DRIVE, LLC  
4692 SHEPPARD LANE  
ELICOTT CITY, MARYLAND 21042  
410-409-0333

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. 36306, EXPIRATION DATE: 01/12/2020.

Signature of Professional Engineer  
Date: 1/10/20



SCALE: 1" = 40'

PROJECT		SECTION	PARCEL NO.
PROPERTY OF NADU A. TUAKLI, LOT 2		-	08
DEED	BLOCK NO.	ZONE	TAX/ZONE
L. XXXX F. XXX	03	RR-DEO	34
ELEC. DIST.	CENSUS TR.		
5th	605103		

SEPTIC SYSTEM INSTALLATION SITE PLAN

PROPERTY OF NADU A. TUAKLI,  
LOT 2  
13150 TRIADDELPHIA MILLS ROAD  
ZONED RR-DEO  
TAX MAP No. 34 GRID No. 03 PARCEL No. 08  
FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
SCALE: A5 SHOWN DATE: JANUARY, 2020  
SHEET 1 OF 1



