

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: 04/26/19 **ONSITE SEWAGE DISPOSAL SYSTEM** P 65460
 APPROVAL DATE: 5/3/19 **PERMIT: CONSTRUCTION** A _____
 PROPERTY ADDRESS: 16249 Frederick Road
 SUBDIVISION: Stanley Miller Property LOT: 4 TAX ID: _____
 CONTRACTOR: mark EMAIL: _____
 CONTRACTOR ADDRESS: _____ PHONE: 301-580-5977
 PROPERTY OWNER: Matt and Jennifer Hanifee EMAIL: _____
 OWNER ADDRESS: 1220 Cartley Court, Woodbine, MD 21797 PHONE: _____
 SEPTIC TANK SIZE (GALLONS): 2000 TANK MANUFACTURER: Babylon
 PUMP MODEL: _____ PUMP SIZE _____ PUMP TANK CAPACITY: _____

DISTRIBUTION SYSTEM: GRAVITY PRESSURE DOSED BEDROOMS: 6 APPLICATION RATE: 0.6

TRENCHES:	LINEAR FEET REQUIRED: 250 <u>210 LF</u> ^(LF)	INLET DEPTH: <u>4</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>8</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>11</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 3 trenches @ ~~70 LF~~ 70 LF

ISSUED BY: K. Wolf ISSUE DATE: 4/26/19 EXPIRATION DATE: 4/26/20

- 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 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 4/26/19
- 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.**

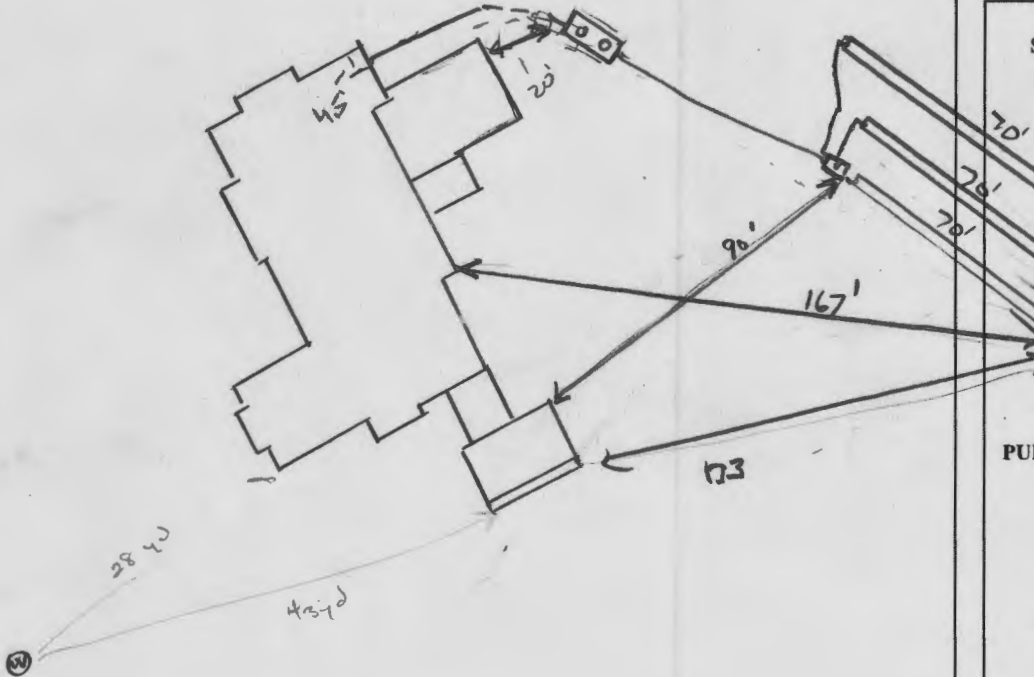
NOT TO SCALE

TRENCH/DRAINFIELD DATA

WIDTH	INLET	BOTTOM
<u>3</u>	<u>4</u>	<u>8</u>
NUMBER OF TRENCHES		<u>3</u>
TOTAL LENGTH		<u>210'</u>
ABSORPTION AREA		<u>630' x 20'</u>
DISTRIBUTION BOX LEVEL		<u>Level</u>
DISTRIBUTION BOX BAFFLE		<u>Yes</u>
DISTRIBUTION BOX PORT		<u>Yes</u>

SEPTIC TANK DATA

SEPTIC TANK I LEVEL	<u>Yes</u>
MANUFACTURER	<u>Babylon</u>
CAPACITY	<u>2000</u> GAL
SEAM LOC	<u>Top</u>
TANK LID DEPTH	<u>2.5'</u>
BAFFLES	<u>Yes</u>
BAFFLE FILTER	<u>-</u>
MANHOLE LOC	<u>Front/Rear</u>
6" PORT LOC	<u>None</u>
WATERTIGHT TEST	<u>-</u>
SLOTTED	<u>Yes</u>
DATE ON LID	<u>3-29-19</u>
PUMP/SEPTIC TANK LEVEL	<u>N/A</u>
MANUFACTURER	<u>-</u>
CAPACITY	<u>-</u> GAL
SEAM LOC	<u>-</u>
TANK LID DEPTH	<u>-</u>
BAFFLES	<u>-</u>
BAFFLE FILTER	<u>-</u>
MANHOLE LOC	<u>-</u>
6" PORT LOC	<u>-</u>
WATERTIGHT TEST	<u>-</u>
SLOTTED	<u>-</u>
DATE ON LID	<u>-</u>



ROAD NAME
FREDERICK ROAD

PRE-CONSTRUCTION:

4/30/2019 TRENCH + TANK + SDA STAKED BY SURVEYOR. CONTOUR AMENDED. 3 x 70' TRENCH. OK TO START. (K)

INSTALLATION: 5/1/2019 LOWEST TRENCH OPEN IN SP. OK. SOIL LOOKS OK. 15-20% FLAG ROCK

5/2/19 (AM) Tank set upper two trenches dug and staked. OK to continue (K) 5/2/19 System complete. D box tested (K)

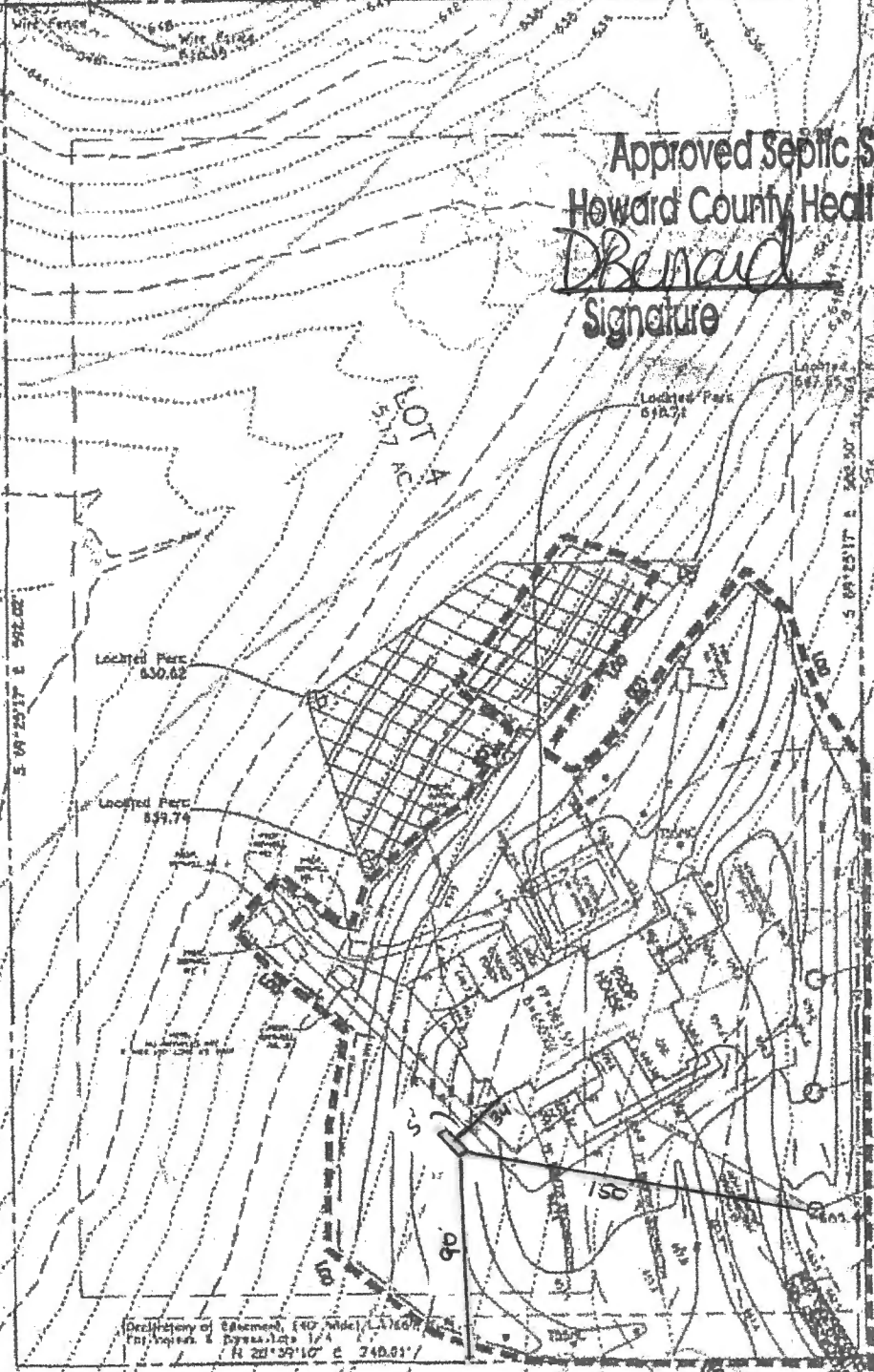
FINAL INSPECTOR

K. Wolf

DATE OF APPROVAL

5/2/19

Approved Septic System Plan
Howard County Health Department
DBenaud 8-29-19
Signature Date



16249 Frederick Rd.

1" = 80'

Oswald, Hank

From: Oswald, Hank
Sent: Tuesday, October 02, 2018 9:24 AM
To: Stephanie Tuite (Stephanie@fcc-eng.com)
Cc: Bernard, Dana
Subject: Septic Specs_Stanley Miller Property Lot 4
Attachments: Stanley Miller Property_Lot 4.pdf

Hi Stephanie:

Attached, please find the septic specs for the Stanley Miller Property, Lot 4.

Hank

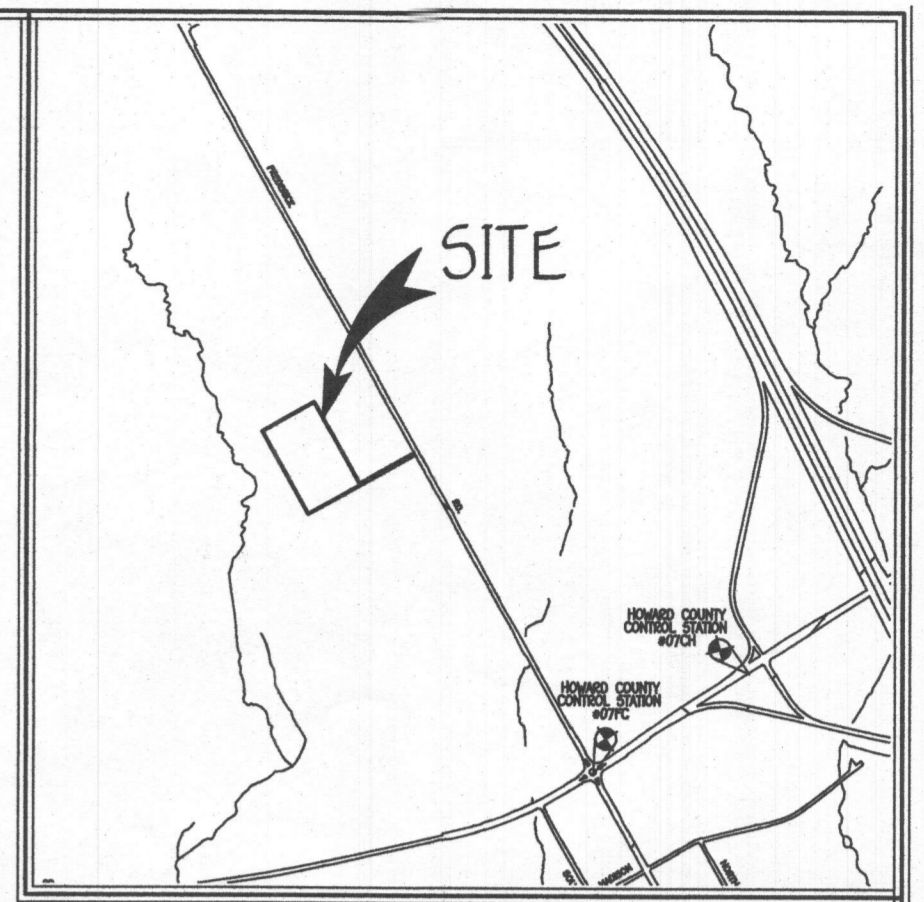
Hank Oswald
Licensed Environmental Health Specialist
Howard County Health Department
Bureau of Environmental Health
Well & Septic Program
8930 Stanford Boulevard
Columbia, MD 21045
410.313.1786 (Office)
hoswald@howardcountymd.gov

CONFIDENTIALITY NOTICE

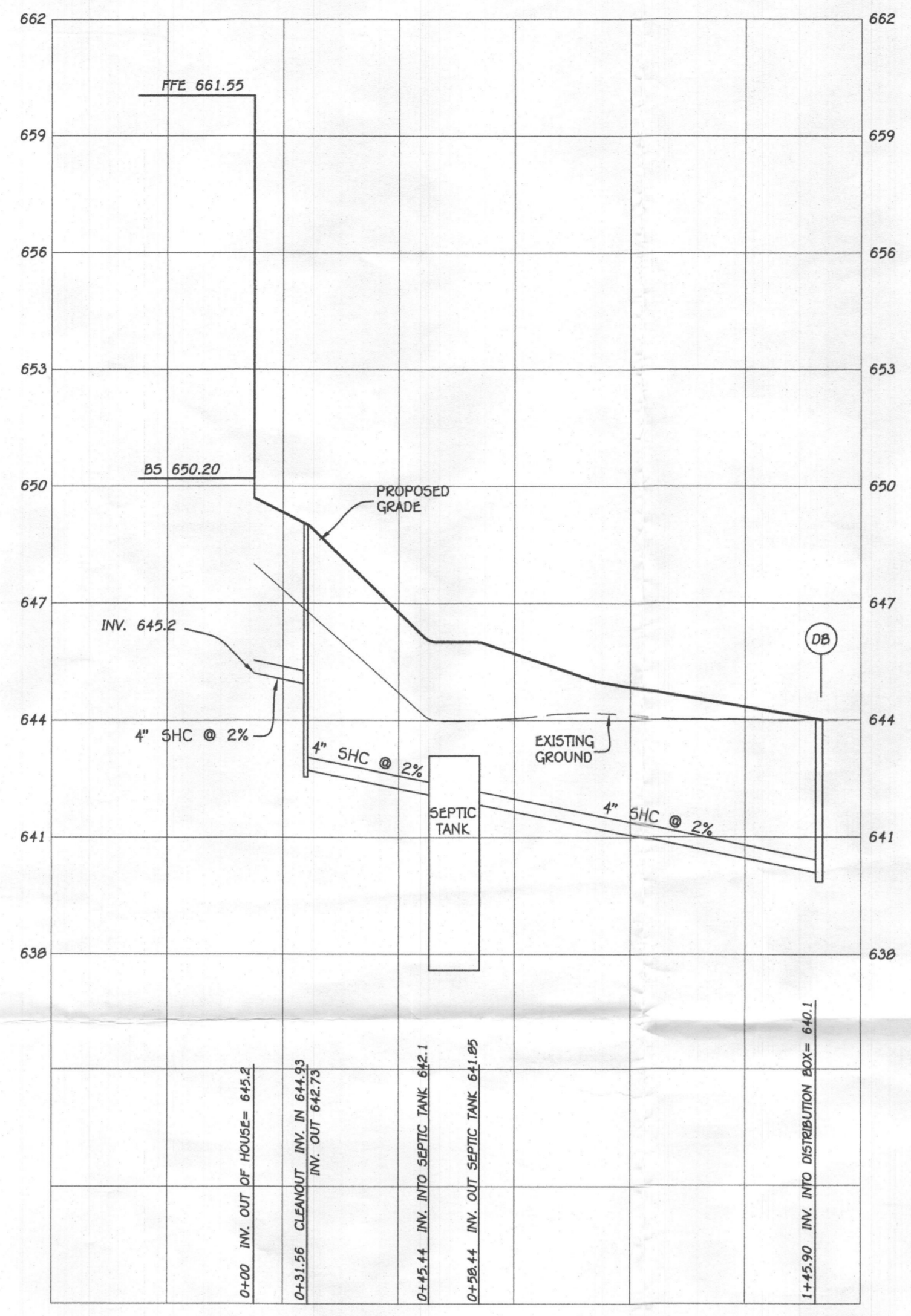
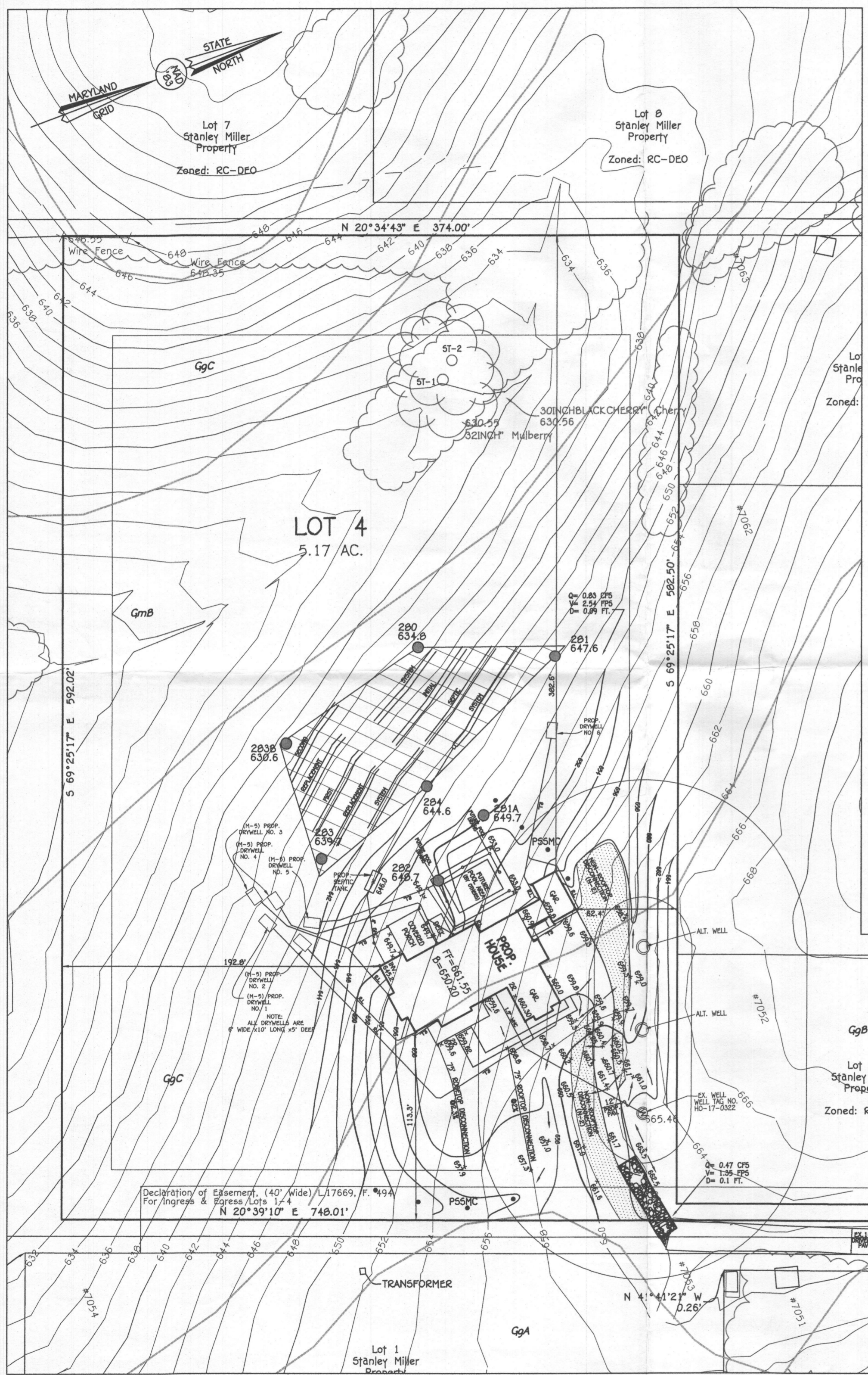
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2. THE MAXIMUM EARTH COVER OVER THE TANK IS 3 FEET. GREATER EARTH COVER WILL REQUIRE A HEAVY LOAD BEARING TANK.
3. ELECTRICAL WORK FOR THE INSTALLATION MUST BE PERFORMED BY A LICENSED ELECTRICIAN.
4. THE WELL HO-17-0322 HAS BEEN FIELD LOCATED AND IS 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.

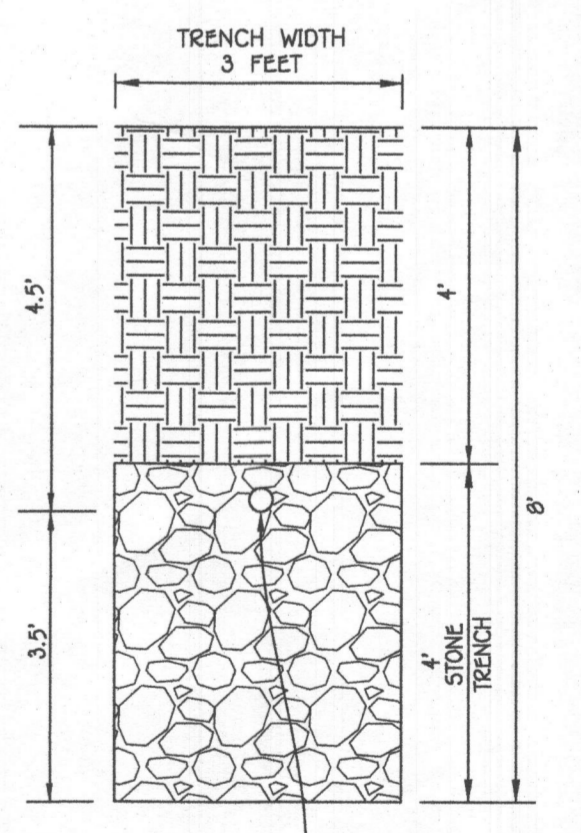
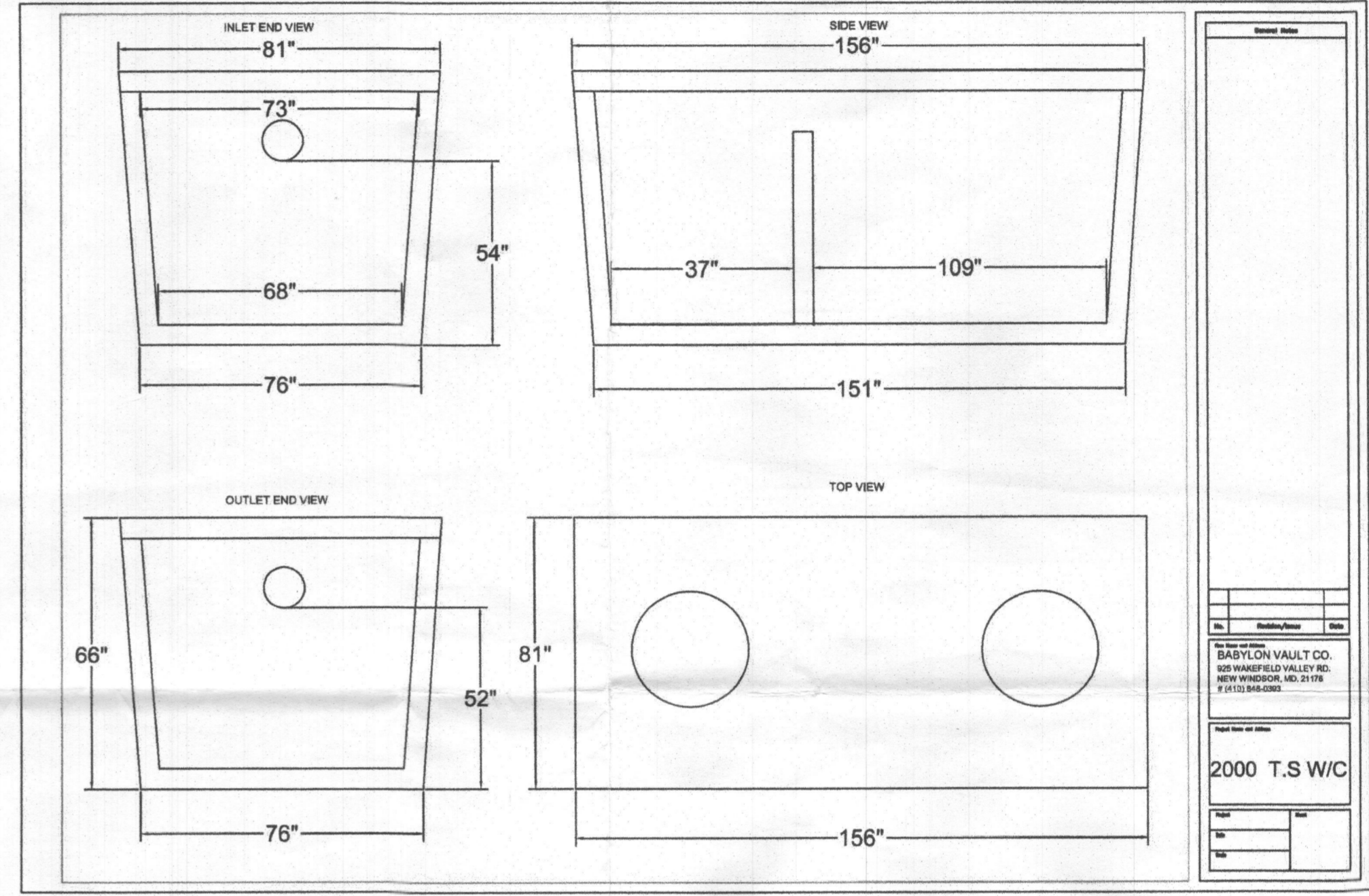
SOILS LEGEND			
SOIL	NAME	CLASS	K. FACTOR
GgA	Glenelig loam, 0 to 3 percent slopes	B	0.20
GgB	Glenelig loam, 3 to 8 percent slopes	B	0.20
GgC	Glenelig loam, 8 to 15 percent slopes	B	0.20
GmB	Glenville silt loam, 3 to 8 percent slopes	C	0.37
GnB	Glenville-Balle silt loams, 0 to 8 percent slopes	C	0.37



VICINITY MAP
SCALE: 1" = 1200'
HO. CO. ADC MAP 19, GRID B-8



SEPTIC PROFILE
SCALE: 1" = 30'



INITIAL TRENCH DETAIL
SCALE: 1" = 2'

INITIAL SYSTEM

SEWAGE DISPOSAL SYSTEM DATA DESIGN FOR 6 BEDROOMS (PERMIT FOR 5 BEDROOMS)
LOADING RATE = 6 BEDROOMS X 150 GPD/BEDROOM = 900 GPD
APPLICATION RATE = 0.6
EFFECTIVE SIDEWALL BEGINS AT 4 FEET
TRENCH DEPTH = 8 FEET
TRENCH WIDTH (W) = 3 FEET
EFFECTIVE DEPTH (D) = 4 FEET
SF OF DRAINFIELD = 900 GPD / 0.6 = 1500 SF
COEFFICIENT OF REDUCTION OF TRENCH LENGTH = (W+2)/(W+1+2D) = (3+2)/(3+1+(2x4)) = 0.417
TRENCH LENGTH = 1125 SF x 0.417 = 208.50 FEET (USE 3 TRENCHES AT 69.50 LF.)
TRENCH SPACING = 2D+W = ((2x4) + 3) = 11' USE 11'

FFE 661.55
BSE 650.20
INV. OUT OF HOUSE = 645.2
PROP. GROUND AT CLEANOUT #1 = 649.0
INV. INTO CLEANOUT = 644.93
INV. OUT OF CLEANOUT = 642.73
EX. GROUND AT SEPTIC TANK = 644.0
PROP. GRADE ABOVE SEPTIC TANK = 646.0
TOP OF SEPTIC TANK = 643.1
INV. INTO SEPTIC TANK = 642.1
INV. OUT OF SEPTIC TANK = 641.85
EX. GROUND AT DISTRIBUTION BOX = 644.0
INV. INTO DISTRIBUTION BOX = 640.1
INV. OUT OF DISTRIBUTION BOX = 640.0

TRENCH DATA:
TRENCH 1:
EX. GROUND ABOVE = 644.0
INV. IN = 640.1
BOTTOM TRENCH = 636.0
TRENCH 2:
EX. GROUND ABOVE = 642
INV. IN = 638.0
BOTTOM TRENCH = 634.0
TRENCH 3:
EX. GROUND ABOVE = 640
INV. IN = 636.0
BOTTOM TRENCH = 632

1ST REPLACEMENT SYSTEM

SEWAGE DISPOSAL SYSTEM DATA DESIGN FOR 6 BEDROOMS (PERMIT FOR 5 BEDROOMS)
LOADING RATE = 6 BEDROOMS X 150 GPD/BEDROOM = 900 GPD
APPLICATION RATE = 0.8
EFFECTIVE SIDEWALL BEGINS AT 4 FEET
TRENCH DEPTH = 4 FEET
TRENCH WIDTH (W) = 3 FEET
EFFECTIVE DEPTH (D) = 2 FEET
SF OF DRAINFIELD = 900 GPD / 0.8 = 1125 SF
COEFFICIENT OF REDUCTION OF TRENCH LENGTH = (W+2)/(W+1+2D) = (3+2)/(3+1+(2x4)) = 0.417
TRENCH LENGTH = 375 SF x 0.417 = 156.38 FEET (USE 3 TRENCHES AT 52.13 LF.)
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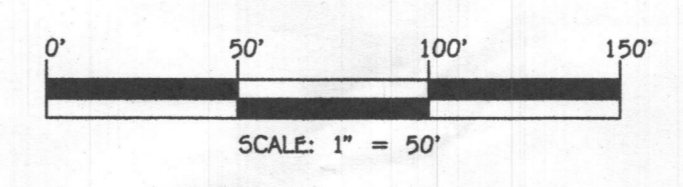
2ND REPLACEMENT SYSTEM

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PLAN
SCALE: 1" = 50'

FREDERICK ROAD
(MD. RTE. 144)



ADDRESS CHART	
LOT NUMBER	STREET ADDRESS
4	16249 FREDERICK ROAD

Approved Septic System Plan
Howard County Health Department
Dana Buraw
Signature
12-18-19
Date

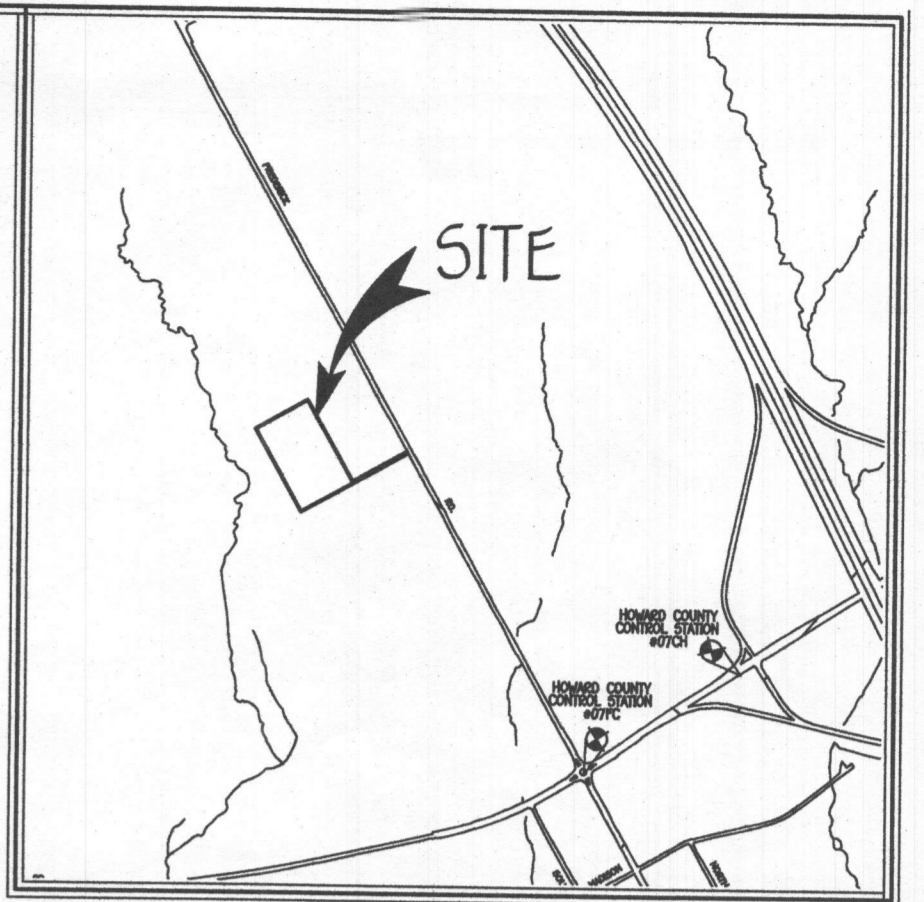
APPROVED
WALKTHRU BUILDING PERMIT
B#
APP. SAN
DESC. OF WORK:

SEPTIC SYSTEM
INSTALLATION SITE PLAN
SECTION ONE
LOT 4
ZONED: RR-DEO
TAX MAP NO.: 07 PARCEL NO.: 467 GRID NO.: 10
FOURTH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND
SCALE: 1" = 50' DATE: NOVEMBER 29, 2018
SHEET 1 OF 1

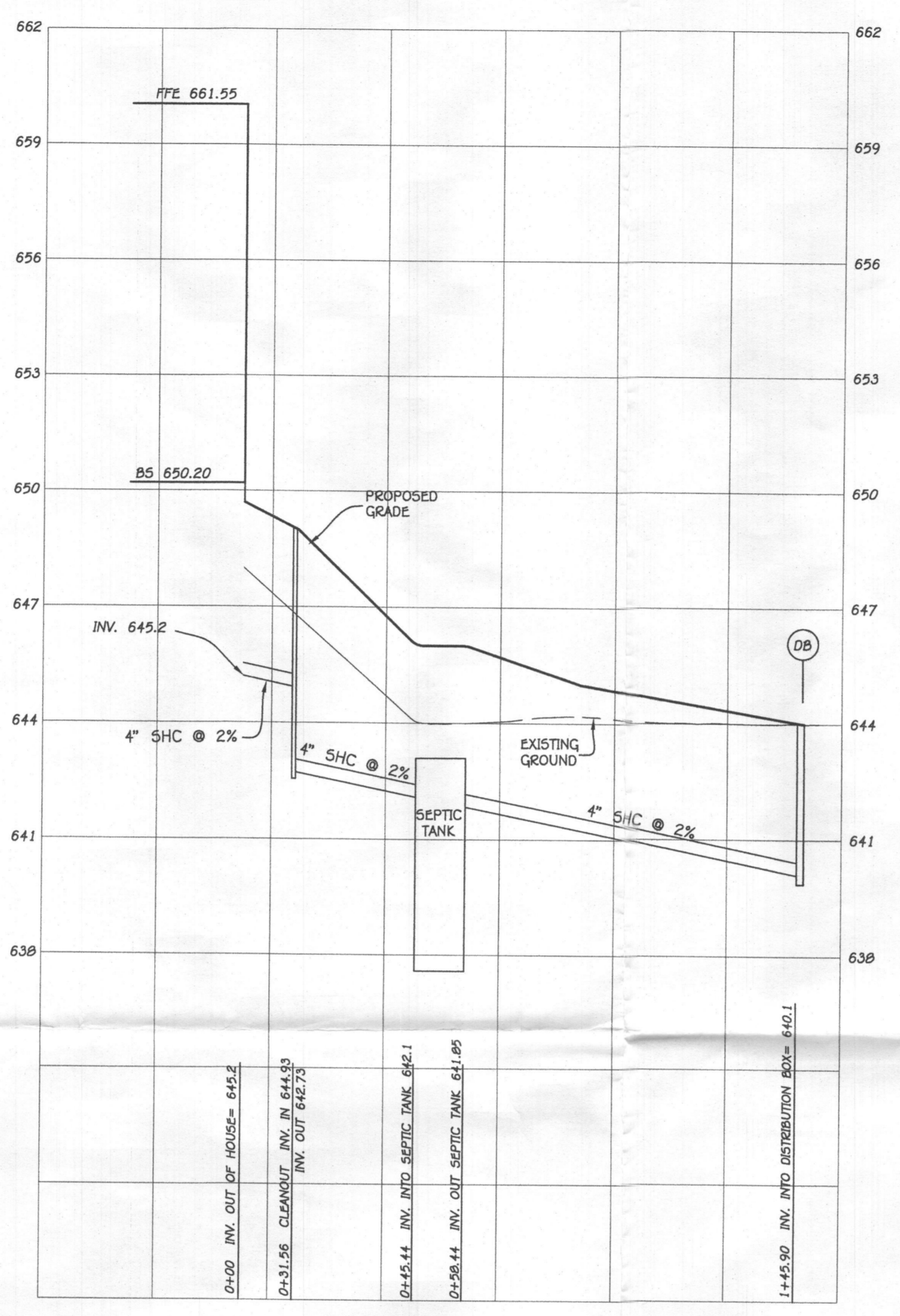
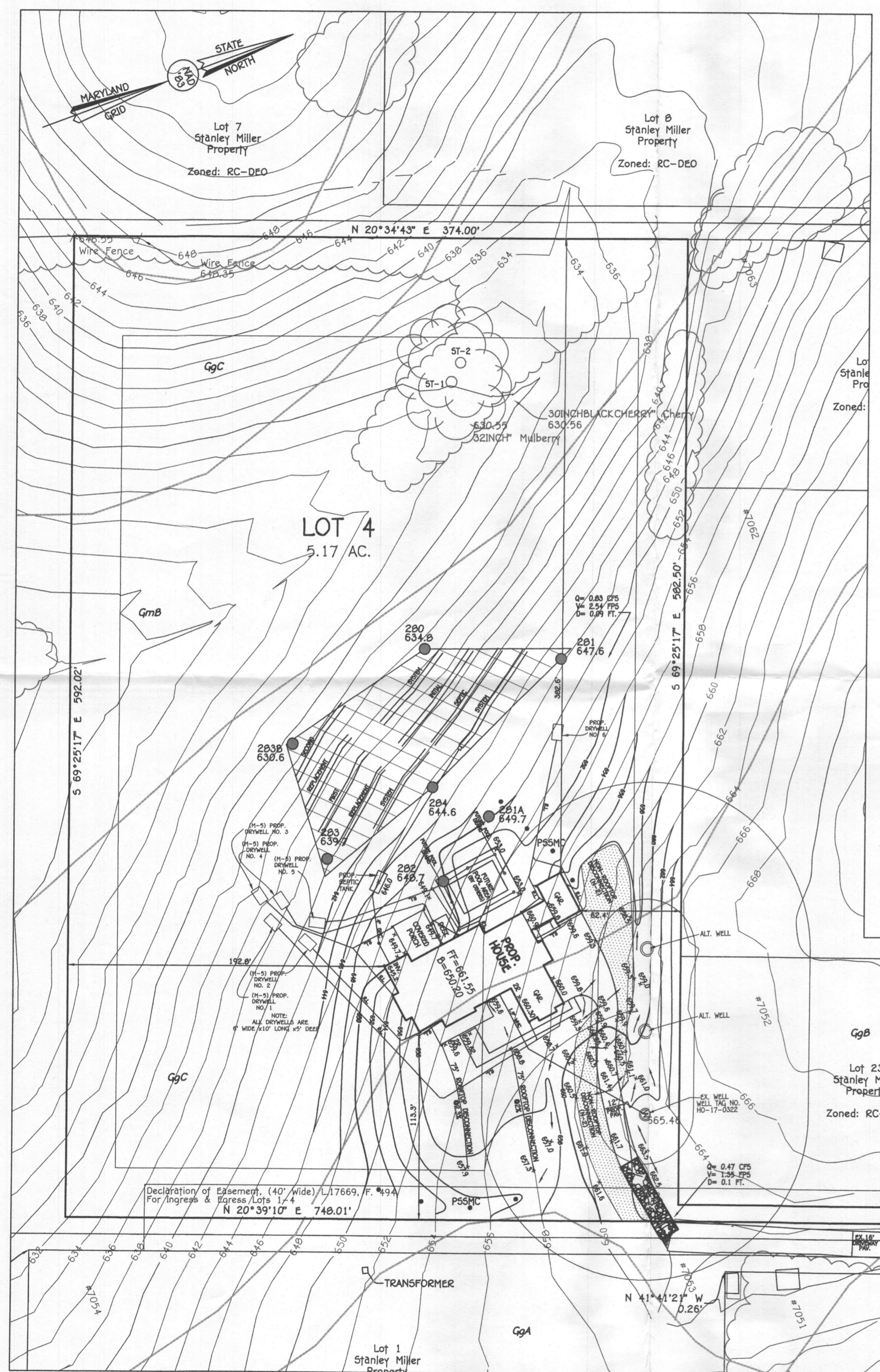
PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 20748, EXPIRATION DATE: 02/22/2019.
Al M. Vitucci
Signature Of Professional Engineer
12/18/19
DATE

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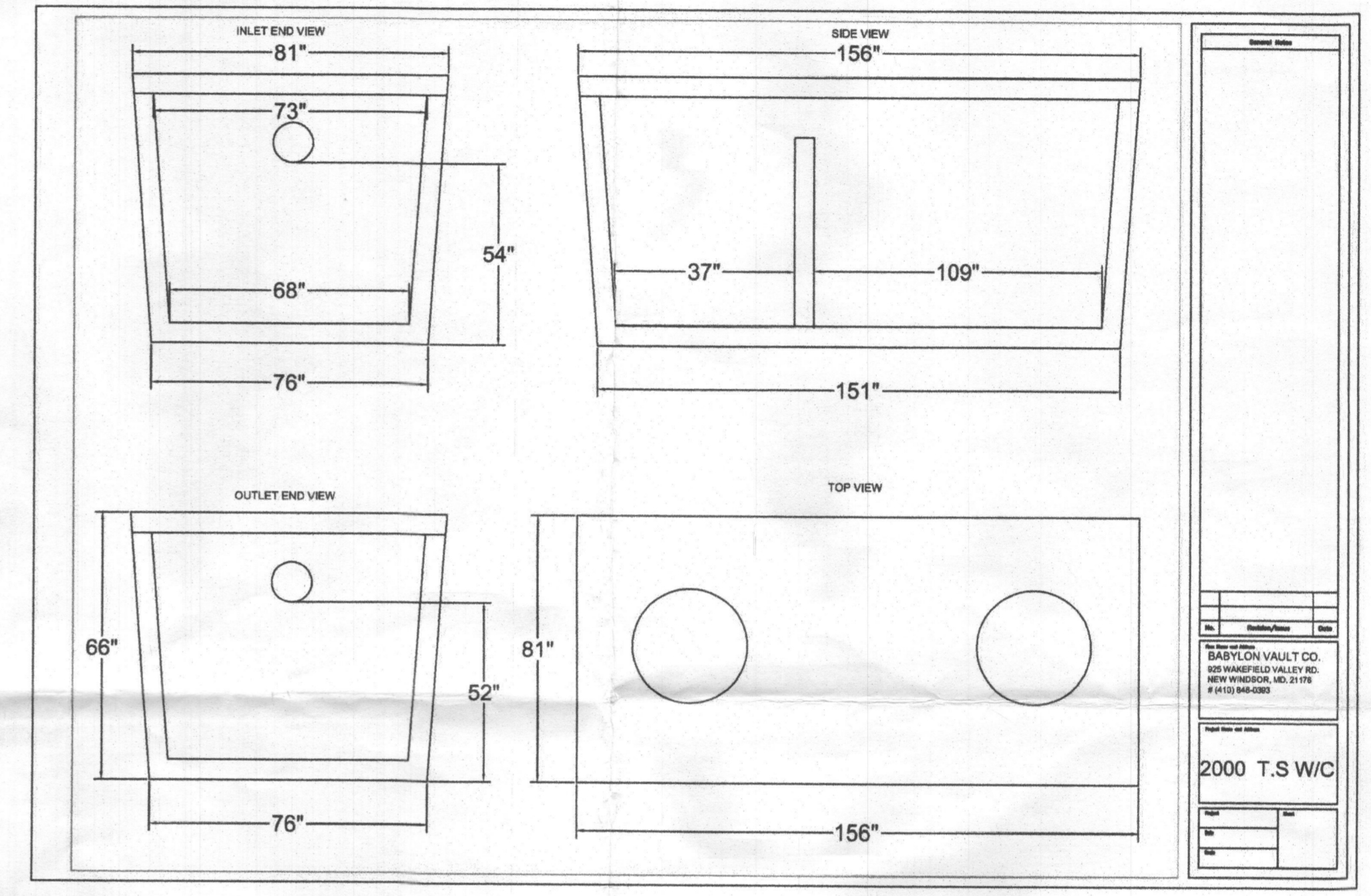
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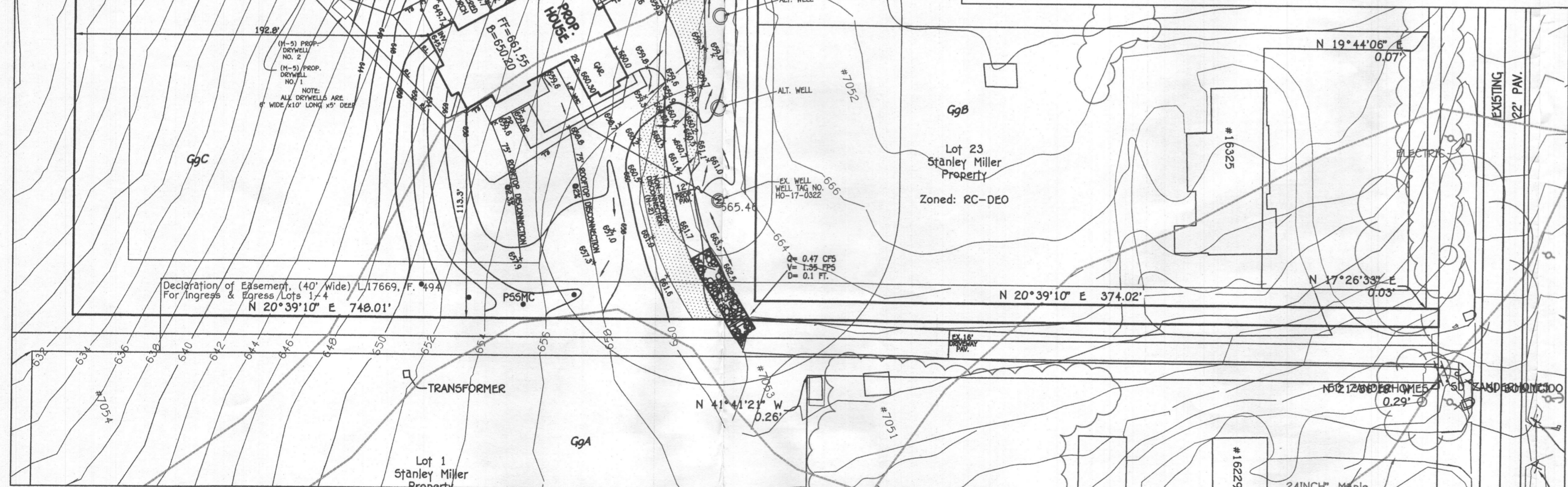
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SCALE: 1" = 50'

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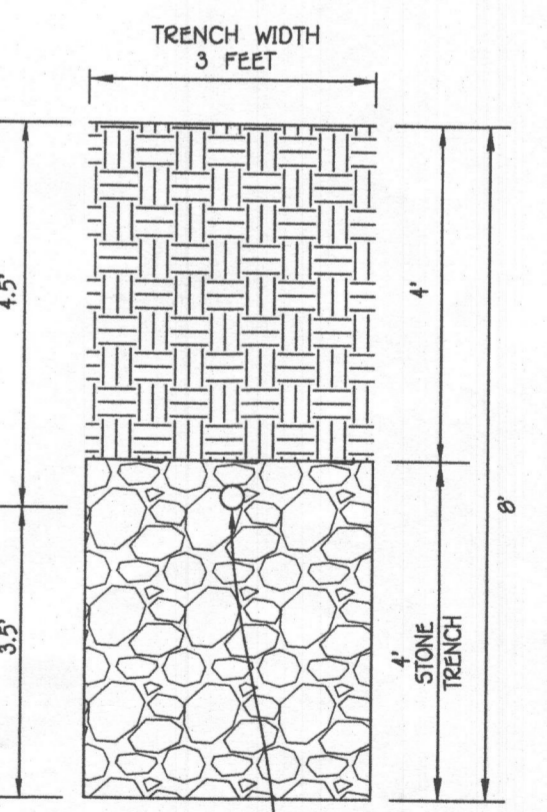
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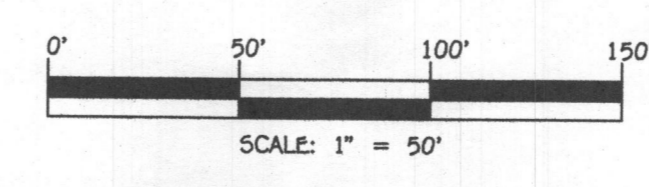
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Signature Of Professional Engineer
12/13/10
DATE



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Approved Septic System Plan
Howard County Health Department
Dana Benard 12-19-18
Signature Date
G.B.R. only
SEPTIC SYSTEM INSTALLATION SITE PLAN
Stanley Miller Property
SECTION ONE
LOT 4
ZONED: RR-DEO
WALK-THRU BUILDING PERMIT
BP# AP#
APP. SAN. DATE:
DESC. OF WORK:
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FOURTH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND
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SHEET 1 OF 1