

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: 2/28/20

ONSITE SEWAGE DISPOSAL SYSTEM

P 567329

APPROVAL DATE: 3/20/20

PERMIT: CONSTRUCTION

A _____

PROPERTY ADDRESS: 3635 Paupers Folly Lane

SUBDIVISION: Belvedere Estates

LOT: 6

TAX ID: _____

CONTRACTOR: South Carroll Backhoe

EMAIL: scbackhoe@arrest.net

CONTRACTOR ADDRESS: 4410 Salem Bottom Road, Westminster, MD 21157

PHONE: 410-596-3618

PROPERTY OWNER: NV Homes

EMAIL: _____

OWNER ADDRESS: 9720 Patuxent Woods Drive, Columbia

PHONE: 410-379-5956

SEPTIC TANK SIZE (GALLONS): 2,000

TANK MANUFACTURER: Babylon Vault

PUMP MODEL: _____

PUMP SIZE _____

PUMP TANK CAPACITY: _____

DISTRIBUTION SYSTEM: GRAVITY

PRESSURE DOSED

BEDROOMS: 6

APPLICATION RATE: 0.8

TRENCHES:	LINEAR FEET REQUIRED: <u>133.88 FT</u>	INLET DEPTH: <u>3 FT</u>
	TRENCH WIDTH: <u>3 FT</u>	MAXIMUM BOTTOM DEPTH: <u>8 FT</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>10 FT</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>3 FT</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 3 trenches @ 44.63	

ISSUED BY: Hank Oswald

ISSUE DATE: 2-28-20

EXPIRATION DATE: 2-28-21

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/4

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.

279189279189

NOT TO SCALE

* see attached as built

ROAD NAME

TRENCH/DRAINFIELD DATA

WIDTH	INLET	BOTTOM
<u>3'</u>	<u>3'</u>	<u>8'</u>
NUMBER OF TRENCHES <u>3</u>		
TOTAL LENGTH <u>135'</u>		
ABSORPTION AREA <u>135' + sidewall</u>		
DISTRIBUTION BOX LEVEL <u>yes</u>		
DISTRIBUTION BOX BAFFLE <u>yes</u>		
DISTRIBUTION BOX PORT <u>yes</u>		

PRE-CONSTRUCTION:

SEPTIC TANK DATA

SEPTIC TANK 1 LEVEL yes
 MANUFACTURER Babylon
 CAPACITY 2000 GAL
 SEAM LOC top
 TANK LID DEPTH 1 ft
 BAFFLES front + back
 BAFFLE FILTER -
 MANHOLE LOC front + back
 6" PORT LOC -
 WATERTIGHT TEST -
 SLOTTED yes
 DATE ON LID 1-13-2020

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 _____

3/19/2020 Trenches staked by surveyor are on contour (ST)

INSTALLATION: 3/19/2020 SHC, tank and d-box set and connected. Furthest trench complete, observed to be 45' in length. (ST) 3/20/20 Contractor onsite, job complete, stone looks good, geo textile fabric is in place on all 3 trenches, dbox level and trench levelers are good, 3ft inlet, 8ft depth, 10 ft apart, 3ft wide, ok to backfill. (RW)

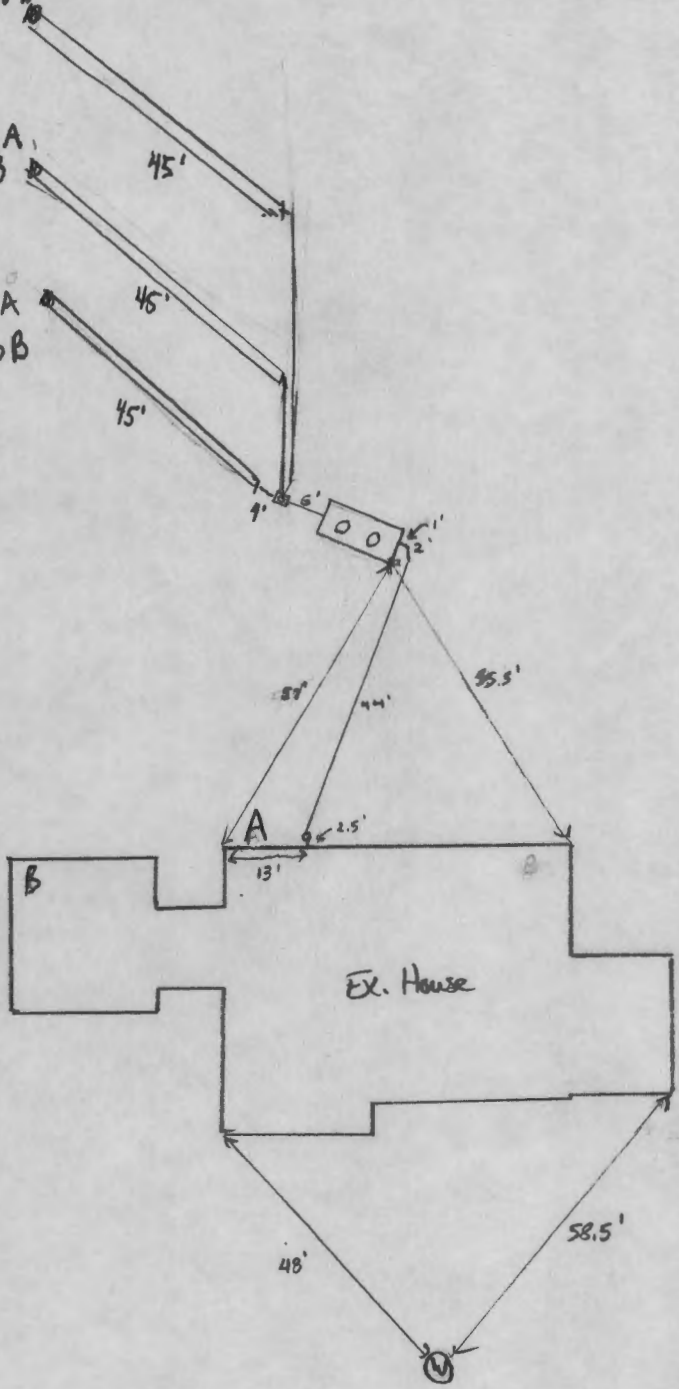
FINAL INSPECTOR R. Rappaport DATE OF APPROVAL 3/20/20

NOT TO SCALE

T3 = 135' to A
132' to B

T2 = 117' to A
113' to B

T1 = 96' to A
90' to B





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 Twitter: HowardCoHealthDep

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

SEWAGE DISPOSAL SYSTEM SPECIFICATIONS WORKSHEET

Address: 3635 Pauper's Folly Lane
 Subdivision: Pauper's Folly Lot: 6

^{7, M-7} Initial system: Application rate: 0.8 Effective area beginning depth: 3 Bottom maximum depth: 8
^{M-7, P12, P6} 1st Replacement: Application rate: 0.8 Effective area beginning depth: 3 Bottom maximum depth: 8
^{P9, P12} 2nd Replacement: Application rate: 1.2 Effective area beginning depth: 3.5 Bottom maximum depth: 7

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:

$$\frac{W+2}{W+1+2D} \times 100 = \text{Percent of length of standard trench where } W=\text{trench width and } D=\text{depth between effective area beginning depth and trench bottom.}$$

Standard design requirements:

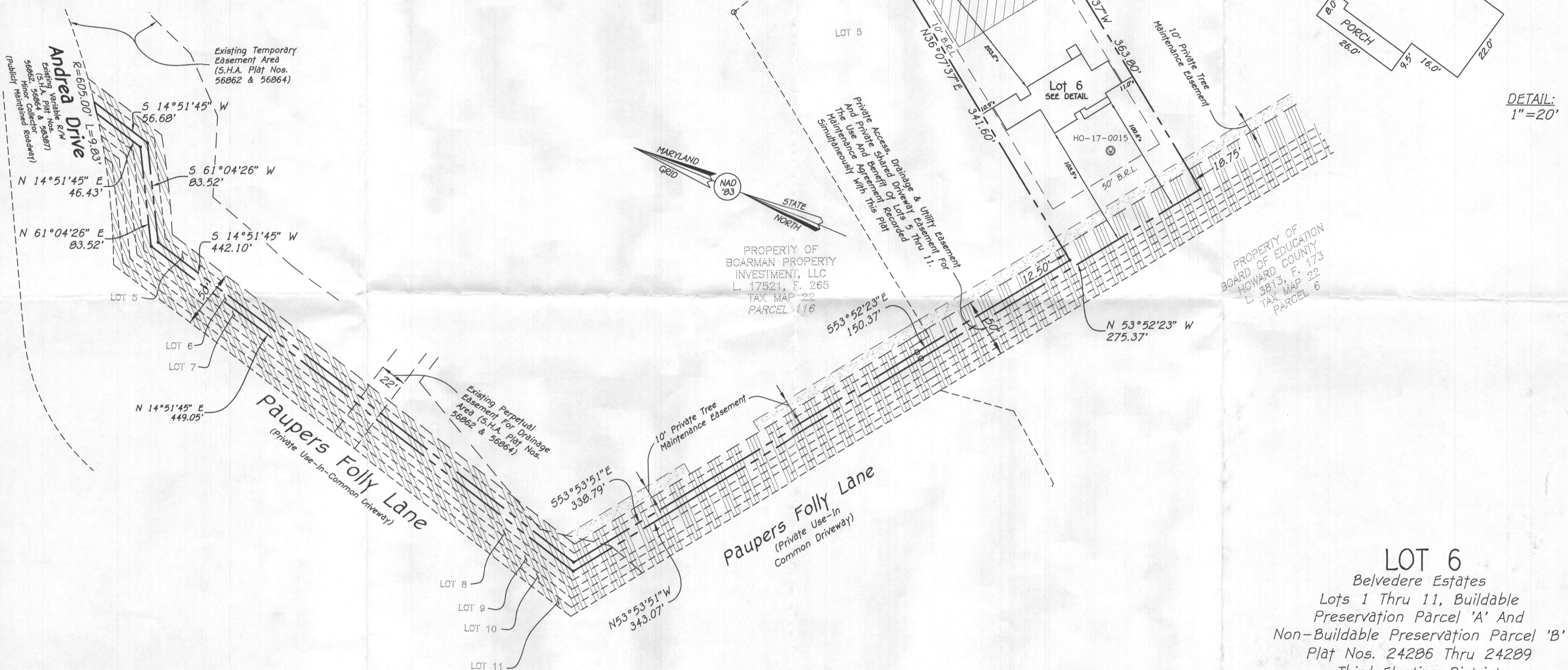
- All trenches must be equal length unless low pressure dosed
- All trenches must be on contour
- Minimum trench spacing: 10' for all trenches utilizing sidewall reduction credit. Additional spacing may be necessary for any trench using over 3.5' of effective sidewall. In those cases, the spacing formula 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: R Bricker Date: 6/13/2018

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.
- 2) SUBJECT PROPERTY IS SHOWN IN ZONE X ON THE NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAP OF HOWARD COUNTY, MARYLAND, COMMUNITY PANEL No. 24027C00265D EFFECTIVE 11/8/2013.
- 3) THE OFFSETS FROM BUILDING LINE TO PROPERTY LINE AS SHOWN ON THE PLAT HEREON ARE TO AN ACCURACY OF PLUS OR MINUS 0.5'.
- 4) NO TITLE REPORT FURNISHED. SUBJECT TO ALL EASEMENTS, RIGHTS OF WAY AND CONDITIONS OF RECORD.
- 5) THE EXISTING WELL(S) SHOWN ON THIS PLAN (IDENTIFIED WITH THE ATTACHED WELL TAG NUMBER HO-17-0015 HAS BEEN FIELD LOCATED BY FISHER, COLLINS AND CARTER, INC. PROFESSIONAL LAND SURVEYORS AND IS ACCURATELY SHOWN.
- 6) 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.
- 7) BUILDING PERMIT #B-19004282



PROPERTY OF
BOARMAN PROPERTY
INVESTMENT, LLC
L. 17521, F. 265
TAX MAP 22
PARCEL 116

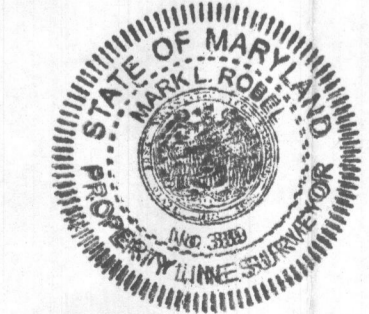
PROPERTY OF
BOARD OF EDUCATION
HOWARD COUNTY
L. 3815, F. 173
TAX MAP 22
PARCEL 6

Paupers Folly Lane
(Private Use-In-Common Driveway)

LOT 6
Belvedere Estates
Lots 1 Thru 11, Buildable
Preservation Parcel 'A' And
Non-Buildable Preservation Parcel 'B'
Plat Nos. 24286 Thru 24289
Third Election District
Howard County, Maryland

Legend

- 10' Private Tree Maintenance Easement
- Private Access, Drainage & Utility Easement
And Private Shared Driveway Easement
For The Use And Benefit Of Lots 5 Thru 11



Mark L. Rabel 2/10/20
PROPERTY LINE SURVEYOR DATE
REG. #339

**HOUSE LOCATION
DRAWING**

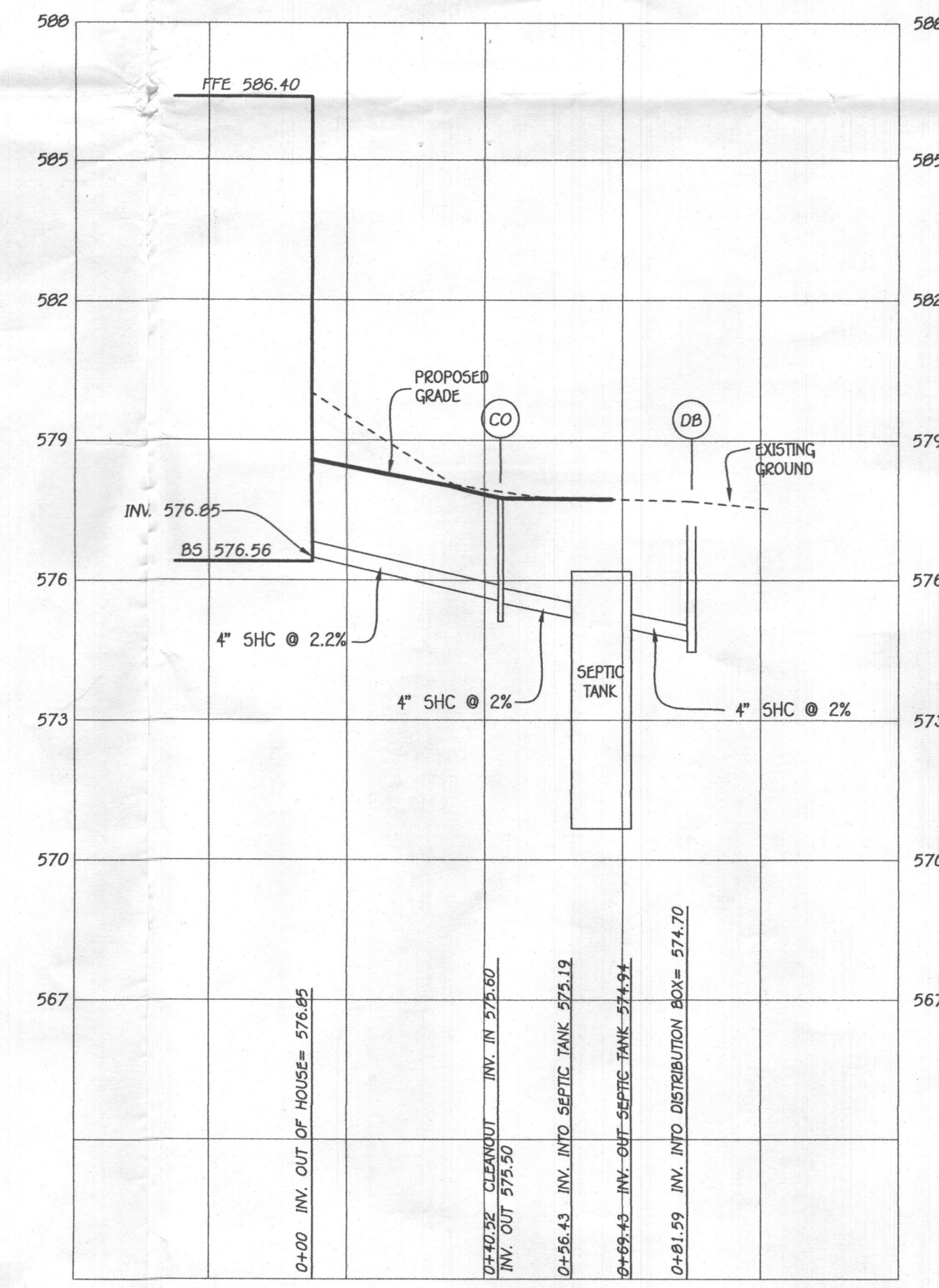
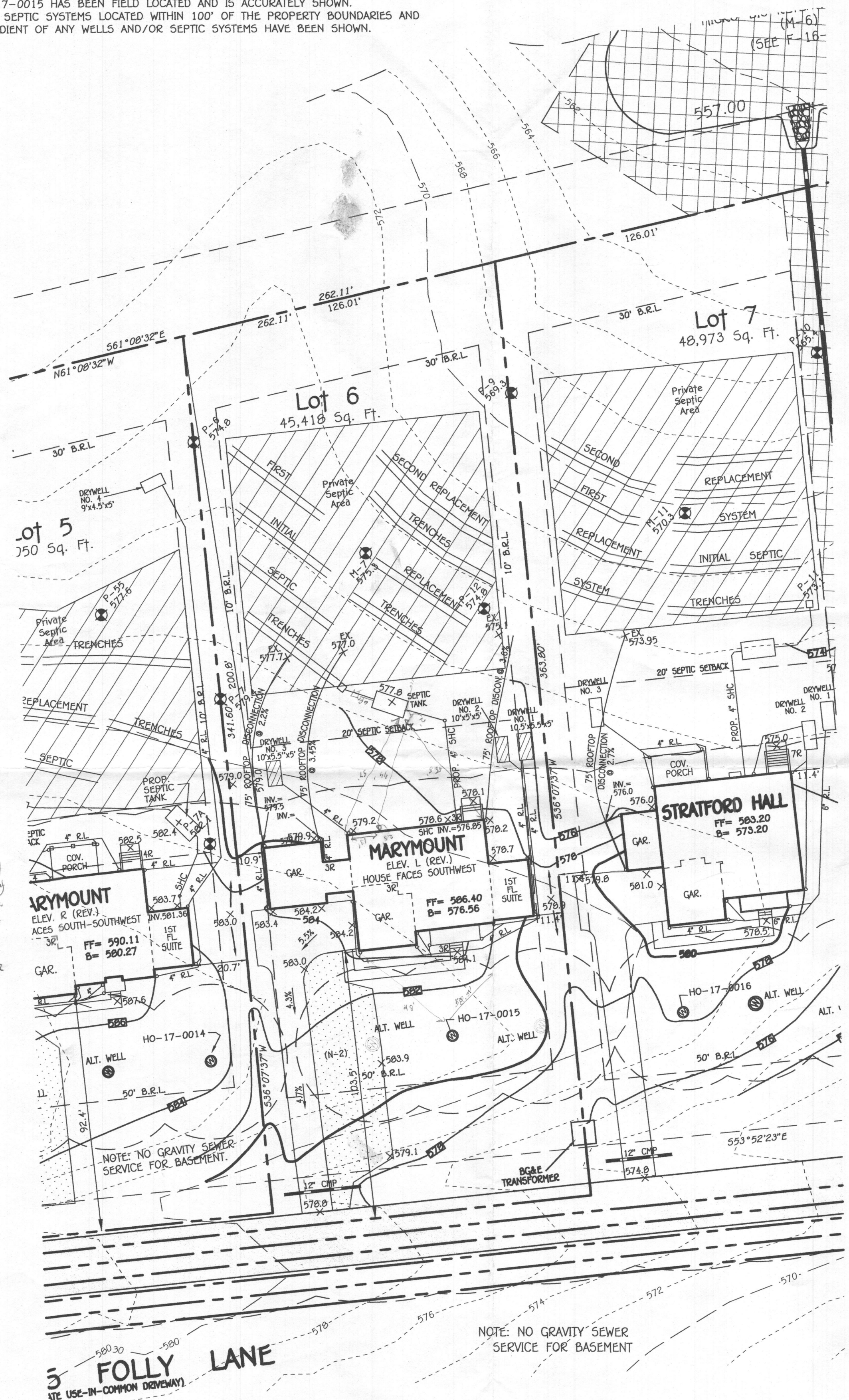
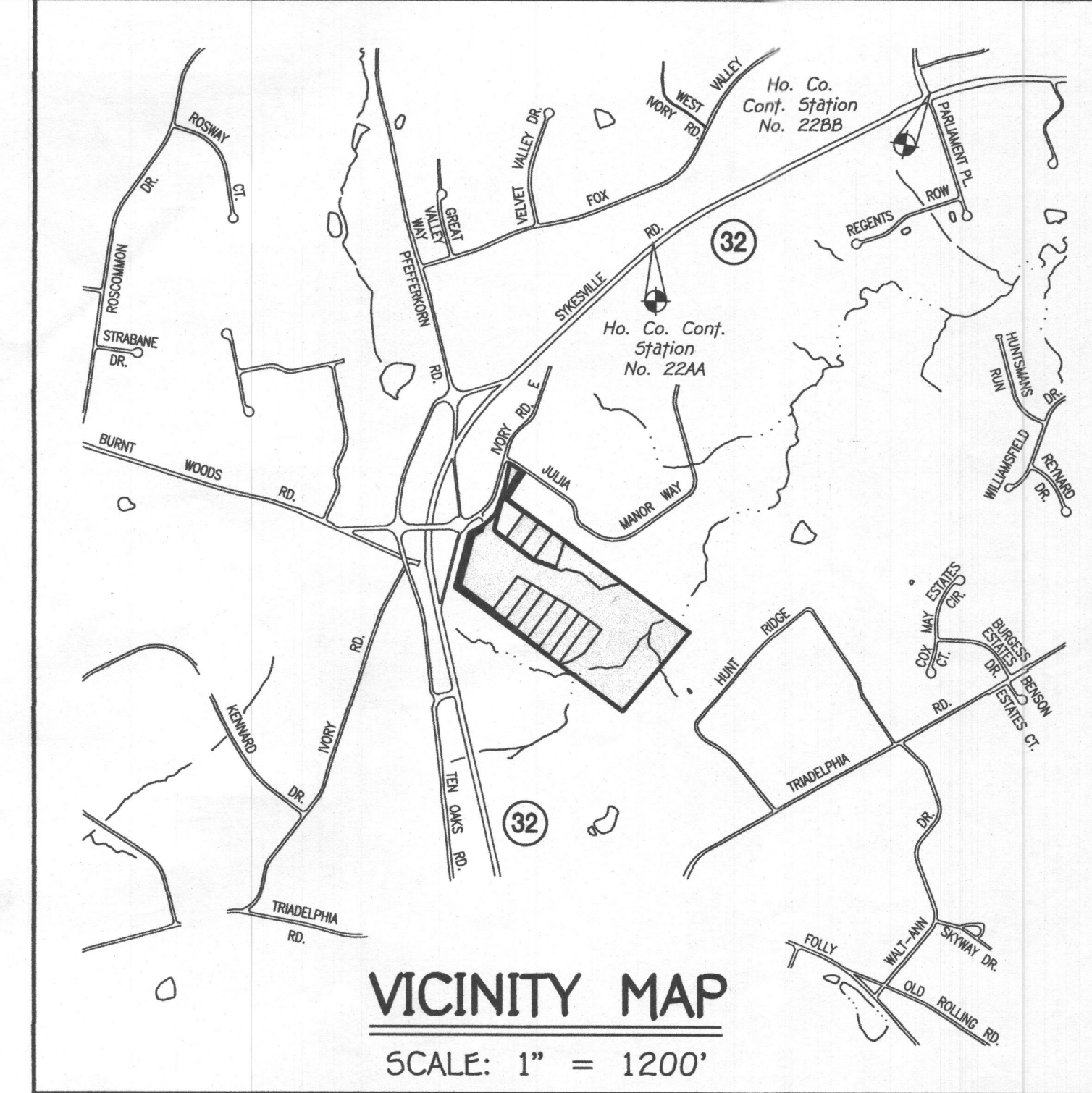
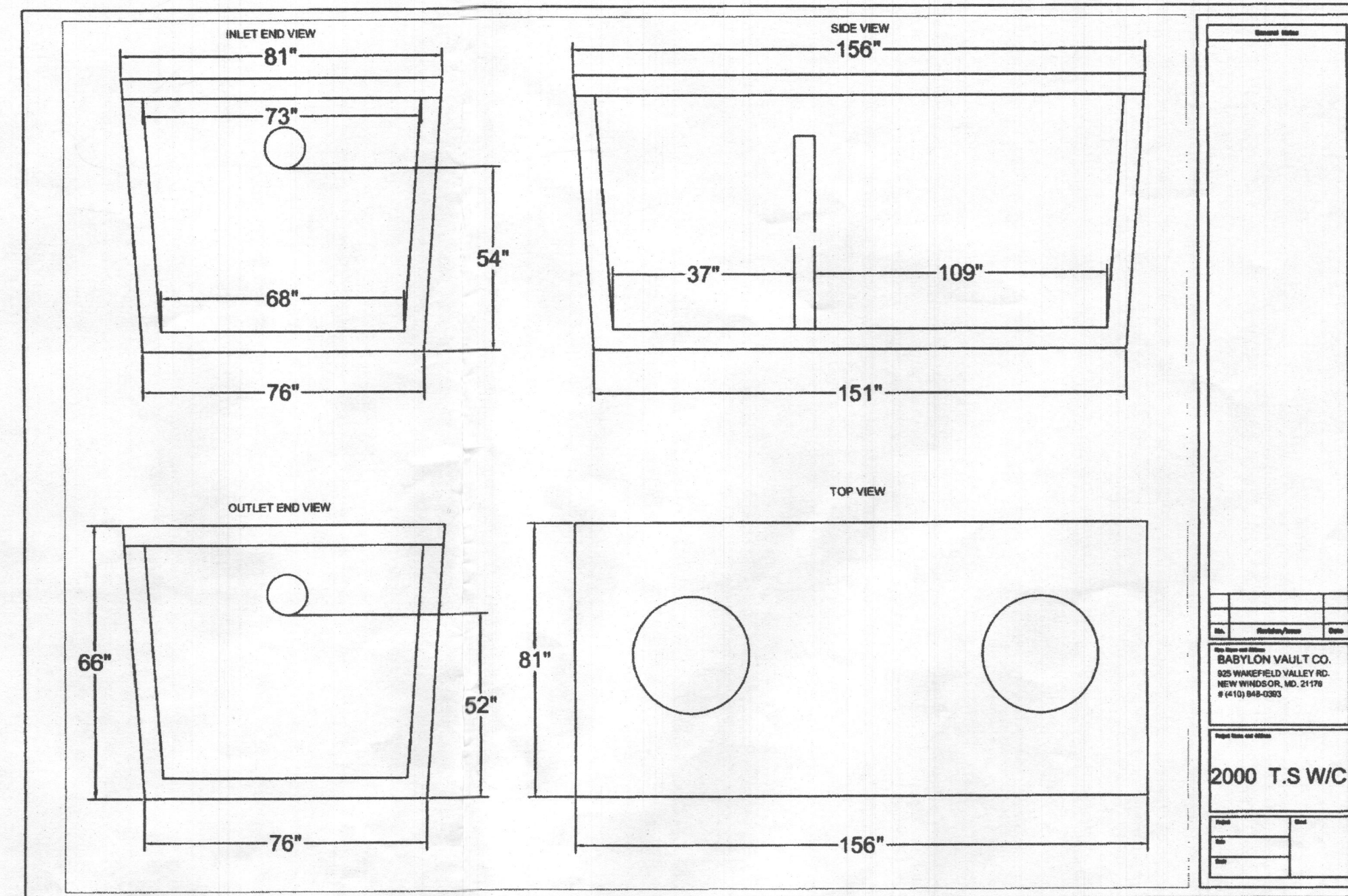
FOUNDATION LOCATION: 2/7/2020
FINAL LOCATION:
BOUNDARY SURVEY:

SCALE: 1"=60'
DATE: 2/10/2020
DRAWN BY: MD
CHECKED BY: MLR
PROJECT No.: 71160-6001

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
ELLCOTT CITY, MARYLAND 21042
(410) 461-2895

#3635 PAUPERS FOLLY LANE
B.R.L. BUILDING RESTRICTION LINE
TOP OF FOUNDATION ELEVATION = 585.4±

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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.
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4. THE WELL HO-17-0015 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.



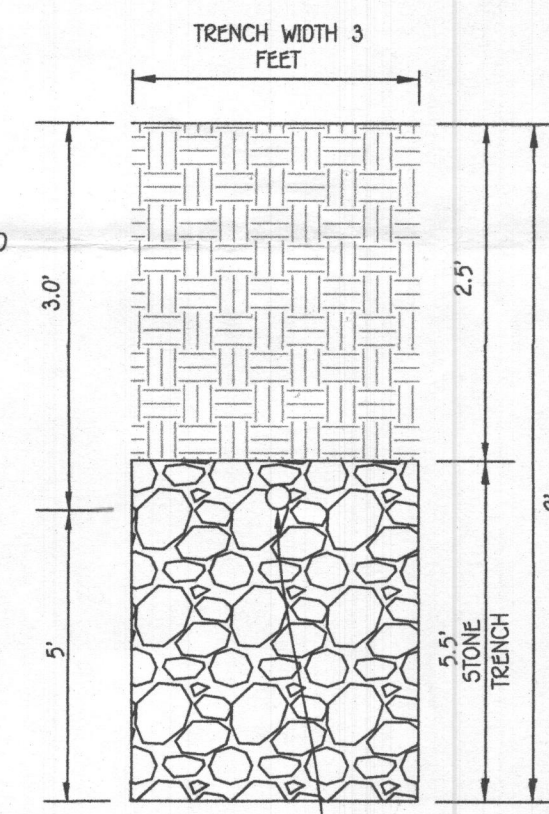
FFE 586.40
 BSE 576.56
 INV. OUT OF HOUSE = 576.85
 PROP. GROUND AT CLEANOUT #1 = 577.6
 INV. INTO CLEANOUT = 575.60
 INV. OUT OF CLEANOUT = 575.50
 EX. GROUND AT SEPTIC TANK = 577.7
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 EX. GROUND AT DISTRIBUTION BOX = 577.6
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 INV. OUT OF DISTRIBUTION BOX = 574.6

TRENCH DATA:

TRENCH 1:
 EX. GROUND ABOVE = 577.4
 INV. IN = 574.4
 BOTTOM TRENCH = 569.4

TRENCH 2:
 EX. GROUND ABOVE = 576.0
 EY. IN = 573.0
 BOTTOM TRENCH = 568.0

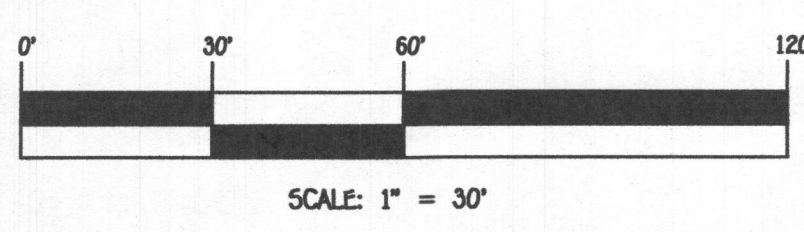
TRENCH 3:
 EX. GROUND ABOVE = 576.0
 EX. IN = 573.0
 BOTTOM TRENCH = 568.0



INITIAL SYSTEM
 SEWAGE DISPOSAL SYSTEM DATA, DESIGN FOR 6 BEDROOMS (PERMIT FOR 5)
 LOADING RATE = 6 BEDROOMS X 150 GPD/BEDROOM = 900 GPD
 APPLICATION RATE = 0.8
 EFFECTIVE SIDEWALL BEGINS AT 3 FEET
 TRENCH DEPTH = 8 FEET
 TRENCH WIDTH (W) = 3 FEET
 EFFECTIVE DEPTH (D) = 5 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+(2x5)) = 0.357
 TRENCH LENGTH = 375.00 SF x 0.357 = 133.88 FEET (3 TRENCHES AT 44.63)
 TRENCH SPACING = 2D+W = ((2x5) + 3) = 13' USE 13'

1ST REPLACEMENT SYSTEM
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2ND REPLACEMENT SYSTEM
 SEWAGE DISPOSAL SYSTEM DATA, DESIGN FOR 6 BEDROOMS (PERMIT FOR 5)
 LOADING RATE = 5 BEDROOMS X 150 GPD/BEDROOM = 900 GPD
 APPLICATION RATE = 1.2
 EFFECTIVE SIDEWALL BEGINS AT 3.5 FEET
 TRENCH DEPTH = 7 FEET
 TRENCH WIDTH (W) = 3 FEET
 EFFECTIVE DEPTH (D) = 3.5 FEET
 SF OF DRAINFIELD = 900 GPD / 1.2 = 750 SF
 COEFFICIENT OF REDUCTION OF TRENCH LENGTH = (W+2)/(W+1+2D) = (3+2)/(3+1+(2x3.5)) = 0.45
 TRENCH LENGTH = 250.00 SF x 0.45 = 112.50 FEET (2 TRENCHES AT 56.25)
 TRENCH SPACING = 2D+W = ((2x3.5) + 3) = 7' USE 10'



PLAN
 SCALE: 1" = 30'

NOTE: NO GRAVITY SEWER SERVICE FOR BASEMENT



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: 02/22/2022.

Robert M. Vitucci
 Signature of Professional Engineer
 1/7/2020
 DATE

SEPTIC PROFILE
 SCALE: 1" = 30'

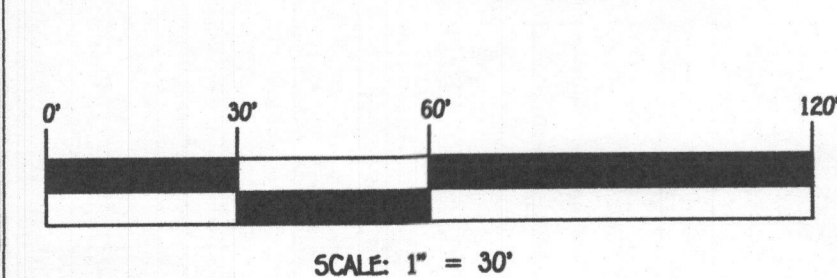
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 CENTRAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
 CULBERTSON CITY, MARYLAND 21046
 (410) 461-2895

OWNER/DEVELOPER
 INV HOMES
 9720 PATUXENT WOODS DRIVE
 COLUMBIA, MD 21046
 410-379-9956

Approved Septic System Plan
 Howard County Health Department
James Oswald 1/9/2020
 Signature Date

SEPTIC SYSTEM INSTALLATION SITE PLAN LOT 6
 3635 PAUPERS FOLLY LANE
 ZONED: RC-DEO
 TAX MAP NO.: 22 GRID NO.: 8 PARCELS NO.: 116 AND PLO 7
 THIRD ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SCALE: AS SHOWN DATE: JAN. 7, 2020
 SHEET 1 OF 1

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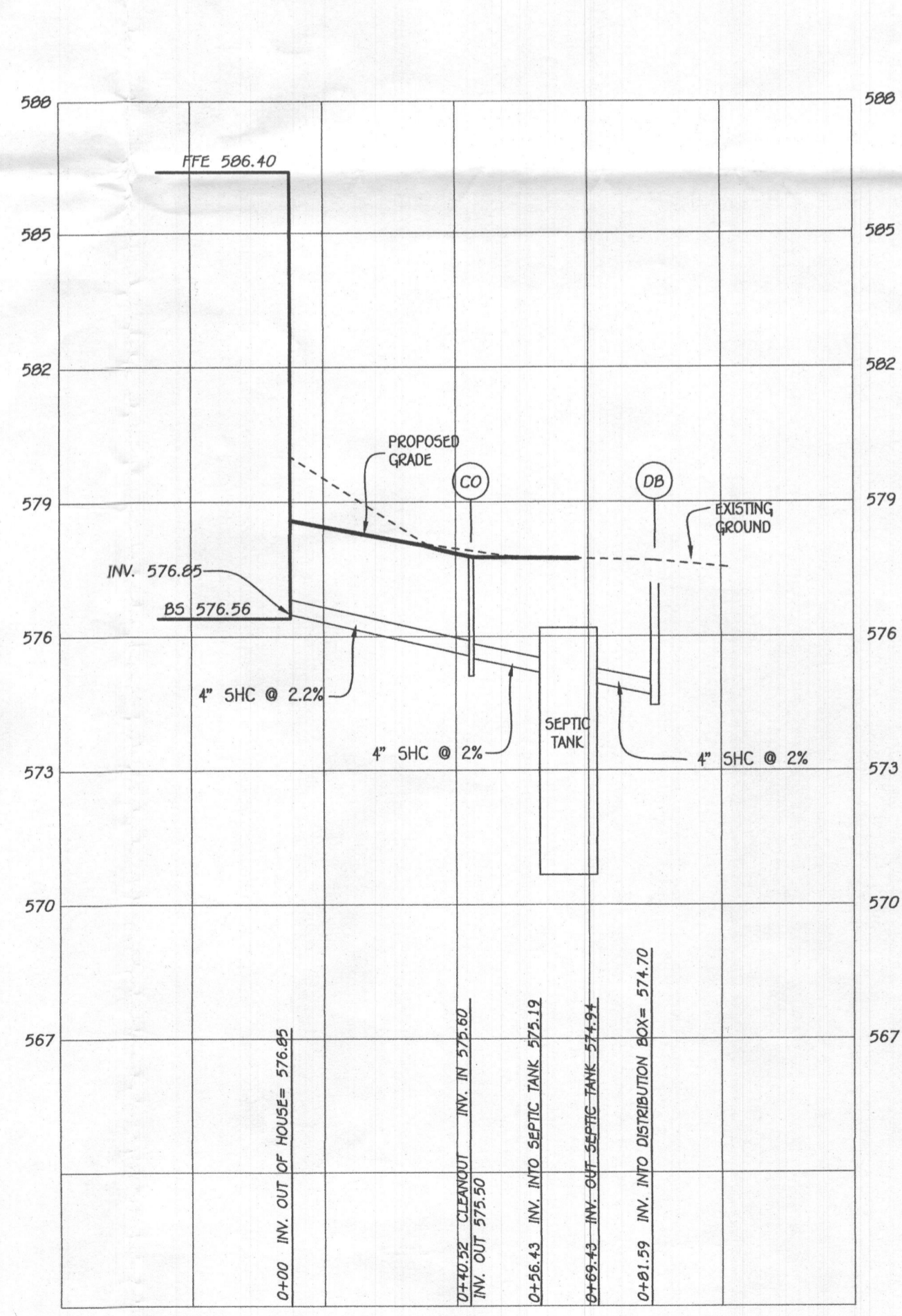
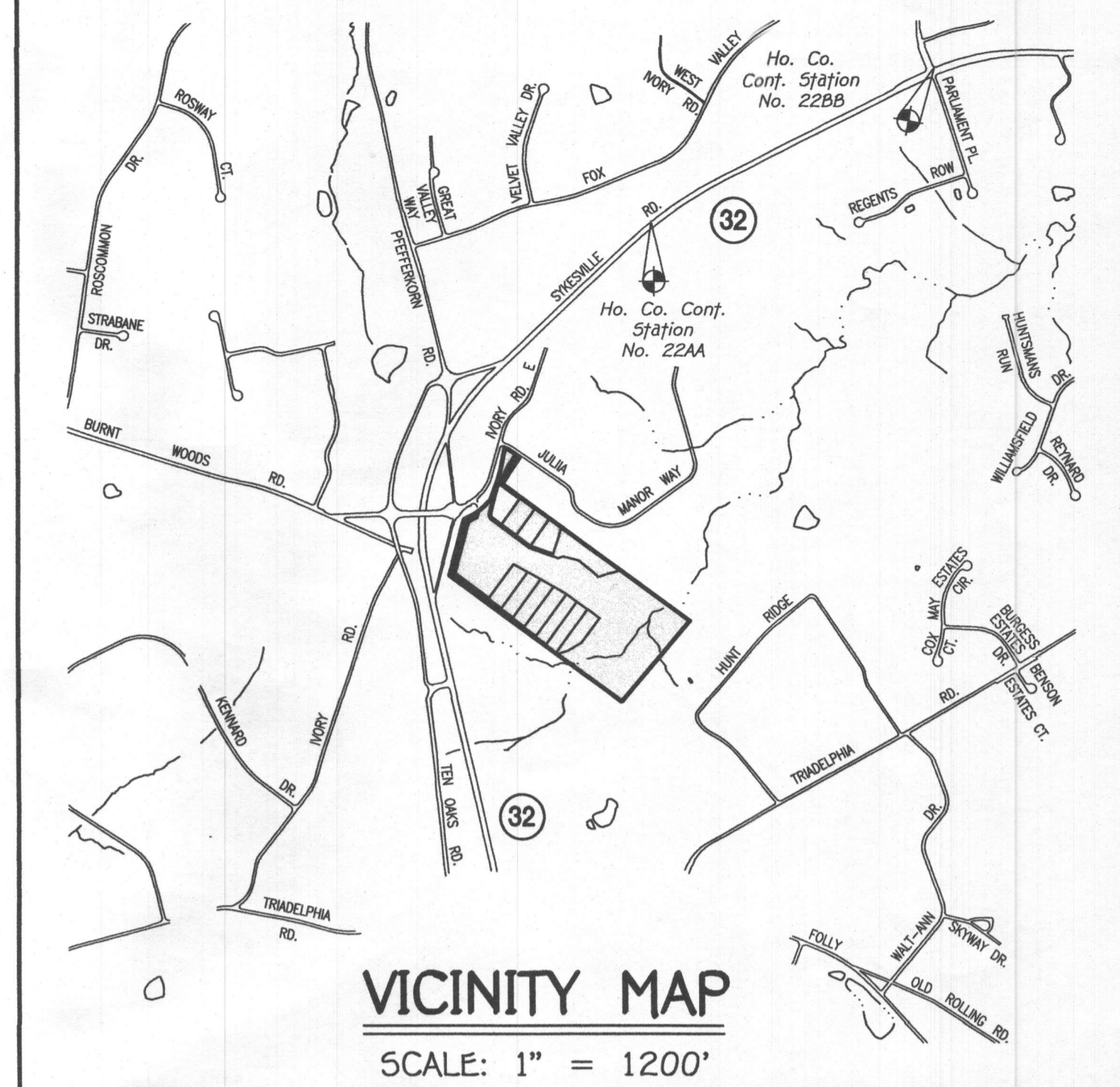
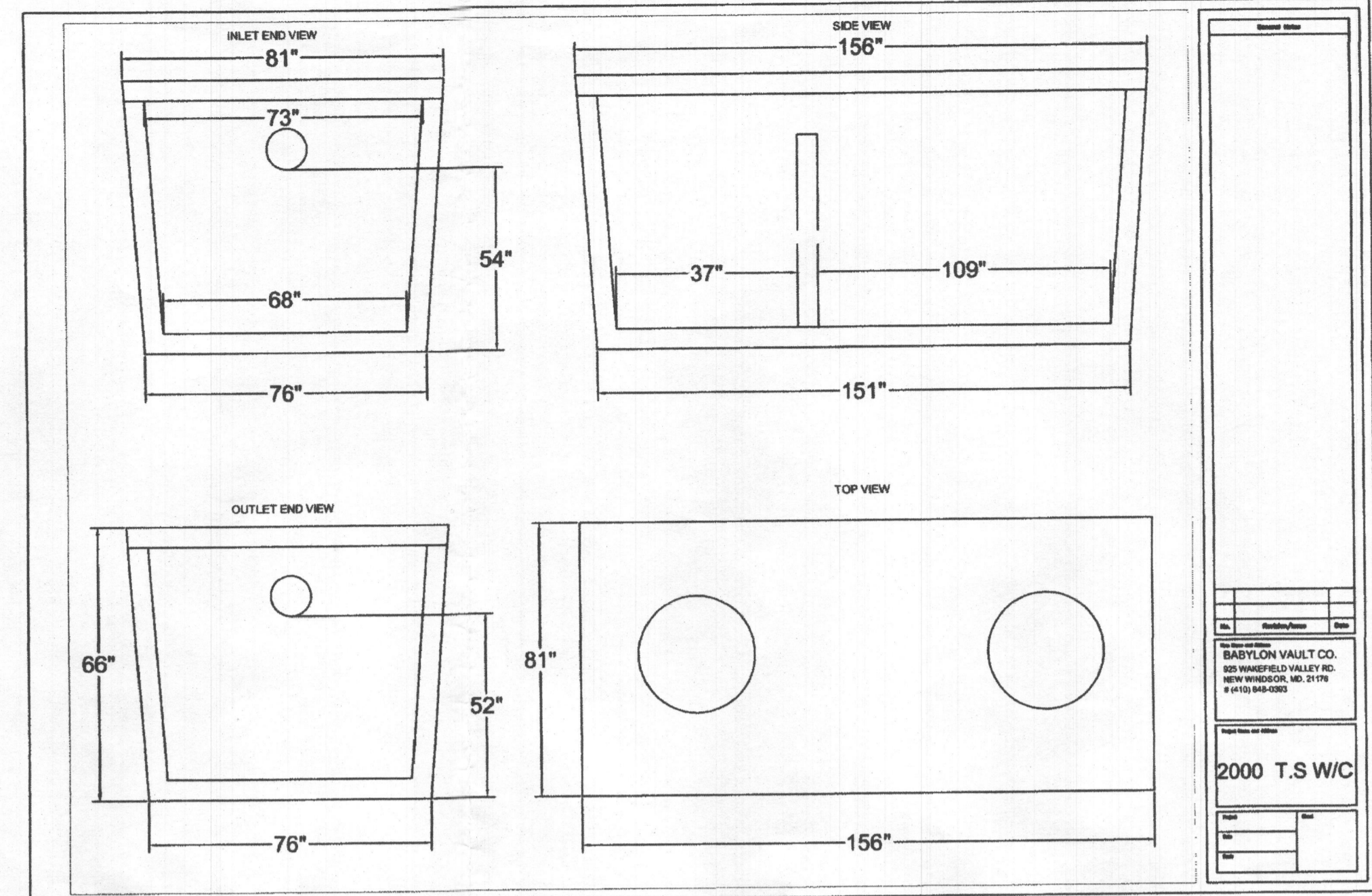


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Michael J. Vitucci
 Signature Of Professional Engineer
 1/7/2020
 DATE

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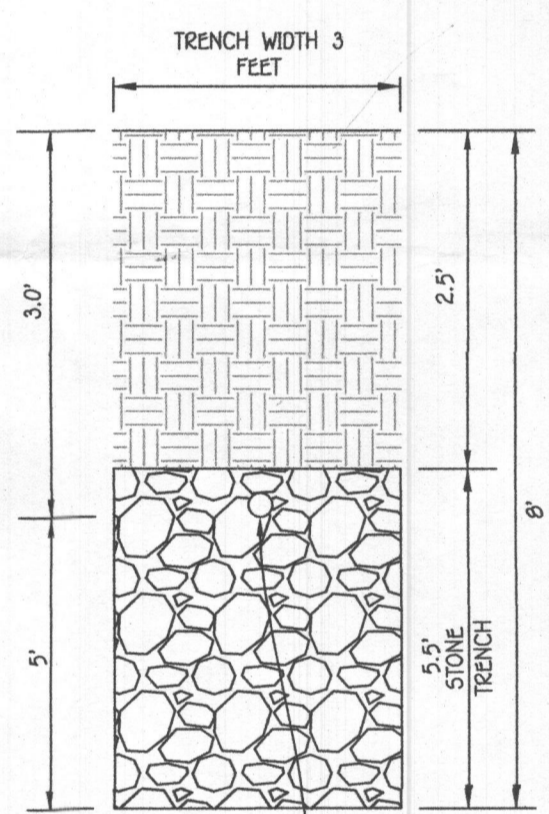
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 EX. IN = 573.0
 BOTTOM TRENCH = 568.0

TRENCH 3:
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 EX. IN = 573.0
 BOTTOM TRENCH = 568.0



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 TRENCH DEPTH = 7 FEET
 TRENCH WIDTH (W) = 3 FEET
 EFFECTIVE DEPTH (D) = 3.5 FEET
 SF OF DRAINFIELD = 900 GPD / 1.2 = .750 SF
 COEFFICIENT OF REDUCTION OF TRENCH LENGTH = (W+2)/(W+1+2D) = (3+1)/(3+1+(2x3.5)) = 0.45
 TRENCH LENGTH = 250.00 5F x 0.45 = 112.50 FEET (2 TRENCHES AT 56.25)
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Approved Septic System Plan
 Howard County Health Department
 Hank Oswald 1/7/2020
 Signature Date

**SEPTIC SYSTEM
 INSTALLATION SITE PLAN
 LOT 6**

3635 PAUPERS FOLLY LANE
 ZONED: RC-DEO
 TAX MAP NO: 22 GRID NO: B PARCELS NO: 116 AND P.O. 7
 THIRD ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SCALE: AS SHOWN DATE: JAN. 7, 2020
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