

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: 1/6/16 **ONSITE SEWAGE DISPOSAL SYSTEM** P 5-59898

APPROVAL DATE: _____ **PERMIT: Upgrade** A _____

PROPERTY ADDRESS: 8061 Browns Bridge Road Highland 20777

SUBDIVISION: Riverview LOT: 1 TAX ID: 05-415667

CONTRACTOR: Fogles Septic EMAIL: _____

CONTRACTOR ADDRESS: 580 Obrecht Road Sykesville, MD 21784 PHONE: 410-795-5670

PROPERTY OWNER: Alpenstock, LLC EMAIL: _____

OWNER ADDRESS: 8361 Reservoir Road Fulton, MD 20759 PHONE: 240-393-1287

SEPTIC TANK SIZE (GALLONS): 1500gal TANK MANUFACTURER: Babylon Vault

PUMP MODEL: Goulds WE05 PUMP SIZE 1/2HP PUMP TANK CAPACITY: 1250gal

DISTRIBUTION SYSTEM: GRAVITY PRESSURE DOSED BEDROOMS: 4 APPLICATION RATE: 1.2

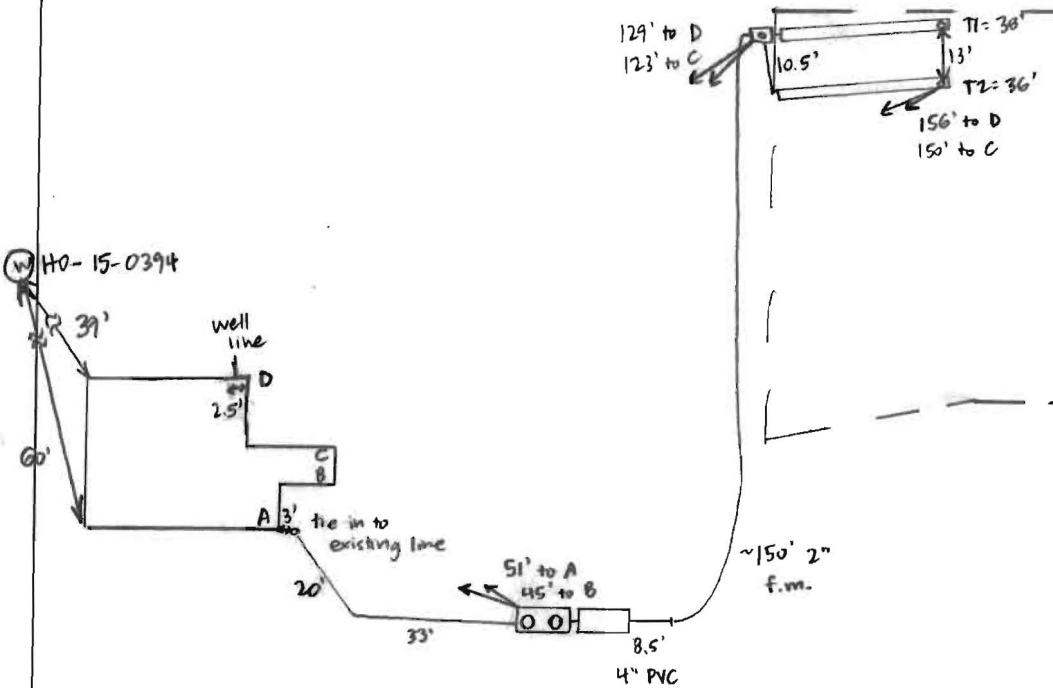
TRENCHES:	LINEAR FEET REQUIRED: <u>70</u>	INLET DEPTH: <u>3</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>7</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>10</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>3</u>
LOCATION:	PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND TANK LOCATIONS MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.	
NOTES:	May need SDA to be staked by surveyor.	

ISSUED BY: Robert Freemon ISSUE DATE: 1/6/17 EXPIRATION DATE: 1/6/17

- 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 _____
- 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
3'	3'	7'
NUMBER OF TRENCHES		2
TOTAL LENGTH		74'
ABSORPTION AREA		222' + SIDEWALL
DISTRIBUTION BOX LEVEL		YES
DISTRIBUTION BOX BAFFLE		ELBOW
DISTRIBUTION BOX PORT		YES

SEPTIC TANK DATA	
SEPTIC TANK I LEVEL	YES
MANUFACTURER	BABYLON
CAPACITY	1500 GAL
SEAM LOC	TOP
TANK LID DEPTH	1.5-3'
BAFFLES	YES
BAFFLE FILTER	NO
MANHOLE LOC	FRONT + REAR
6" PORT LOC	NONE
WATERTIGHT TEST	NO
SLOTTED	YES
DATE ON LID	12-5-16
PUMP/SEPTIC TANK LEVEL	YES
MANUFACTURER	BABYLON
CAPACITY	1250 GAL
SEAM LOC	TDP
TANK LID DEPTH	1.5-3'
BAFFLES	
BAFFLE FILTER	NO
MANHOLE LOC	center
6" PORT LOC	NONE
WATERTIGHT TEST	NO
SLOTTED	NO
DATE ON LID	9-6-16
Pump:	.5 HP

1" ≈ 40' ROAD NAME

PRE-CONSTRUCTION:

1/11/17 Met Fogle's on site for layout. SDA not staked - did not layout trenches. Okay to set tanks as shown on plan. (SC) 1/17/17 Met Fogle's on site for layout. SDA corner stakes present. Shot contour + laid out 2 x 35' trenches. (SC)

INSTALLATION:

1/17/17 Tanks set, pipe connected to house. (SC) 1/18/17 Trenches complete, T2 left open and T1 open at ends. 3' wide, 3.5' to stone. 2" force main run from tank to D-box. Need pump + alarm test. (SC) 3/2/17 P/A test. Insp pump tank alarm components - to permit/plan specs. Weap hole on pipe top of above pump. Water level 39" from top of pump chamber.

FINAL INSPECTOR

[Handwritten Signature]

DATE OF APPROVAL

03/02/2017

3
Oswald, Hank

From: Oswald, Hank
Sent: Wednesday, December 21, 2016 3:20 PM
To: jayschlueter@juno.com
Cc: ron@vanmar.com
Subject: Septic Plan_8061 Browns Bridge Road

Hi Jay:

The septic plan for 8061 Browns Bridge Road was approved on 12/21/16.

Regards,

Hank

Hank Oswald, L.E.H.S.
Howard County Health Department
Bureau of Environmental Health
Well & Septic Program
8930 Stanford Boulevard
Columbia, MD 21045
410.313.1786 (Office)
410.313.2648 (Fax)

Fogle's Septic Clean Inc.

Fogle's Portable Toilets • Fogle's Well Drilling LLC • Fogle's Excavating, LLC



February 24, 2017

Howard Co Dept of Environmental Health
8930 Stanford Blvd
Columbia, Md 21045

To Whom it may concern,

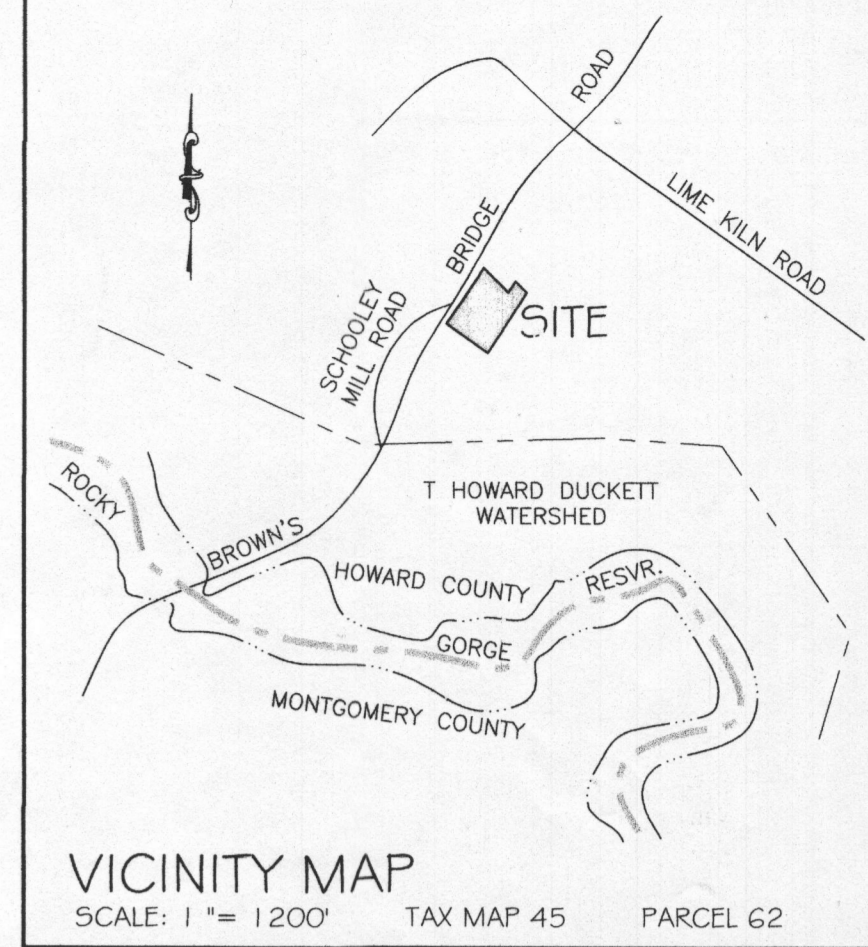
On January the 19th 2017 Fogle's Septic Clean Inc, pumped, crushed and filled in the old septic tank when they did a septic repair at 8061 Browns Bridge Rd. Fogle's installed a new 1500 gal top seam 2 compartment tank, a 1000 gal pump chamber and drainfields. We did this work for Jay Schlueter. Howard County Environment Health dept was on site and did inspections on the septic install.
If you have any questions please call me at the office 410-795-5670.

Sincerely,

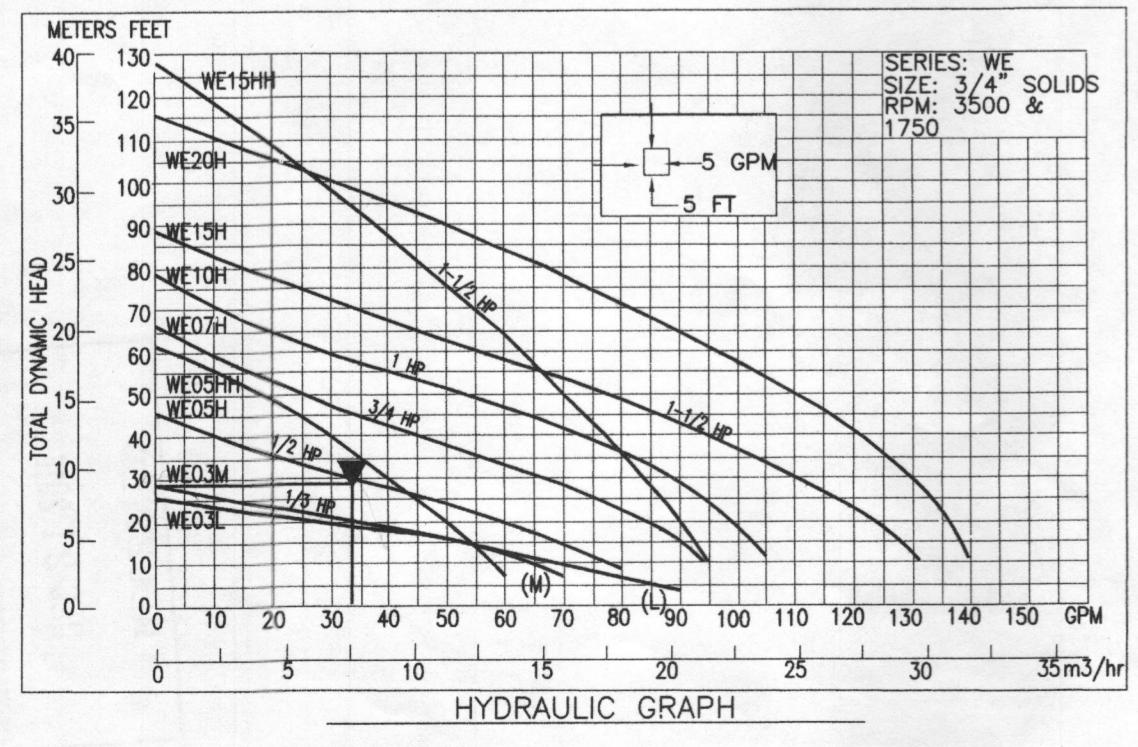
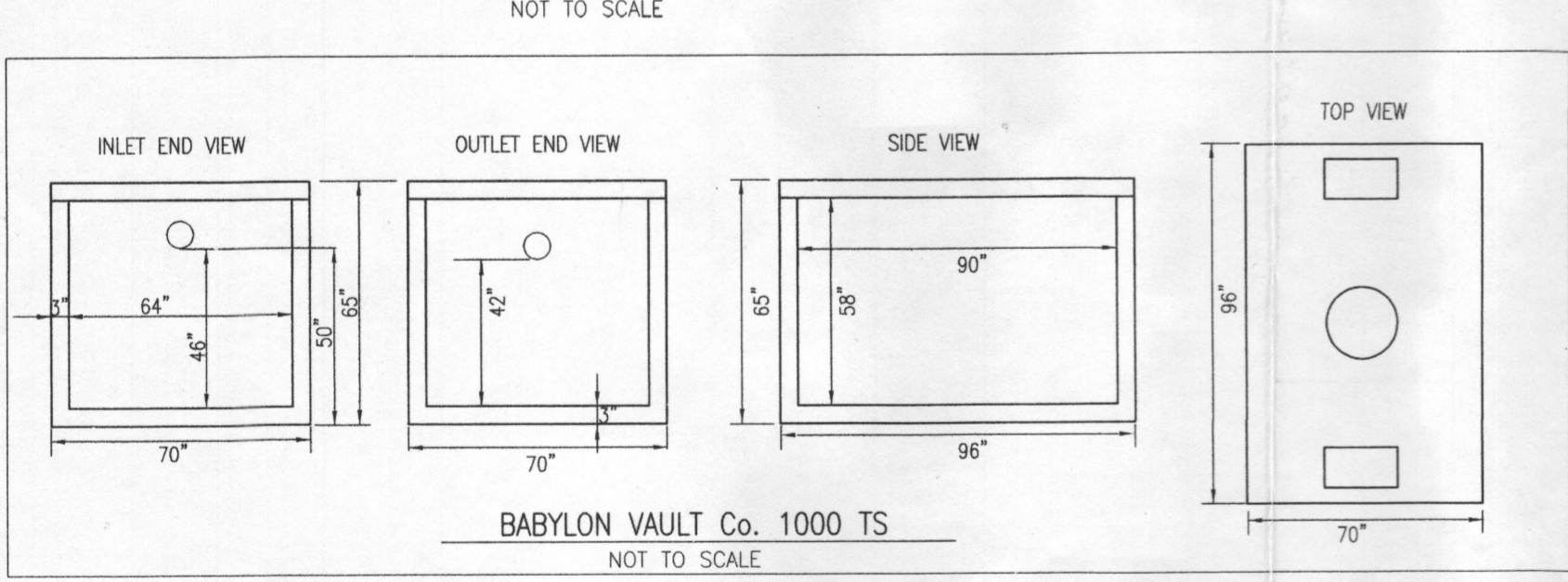
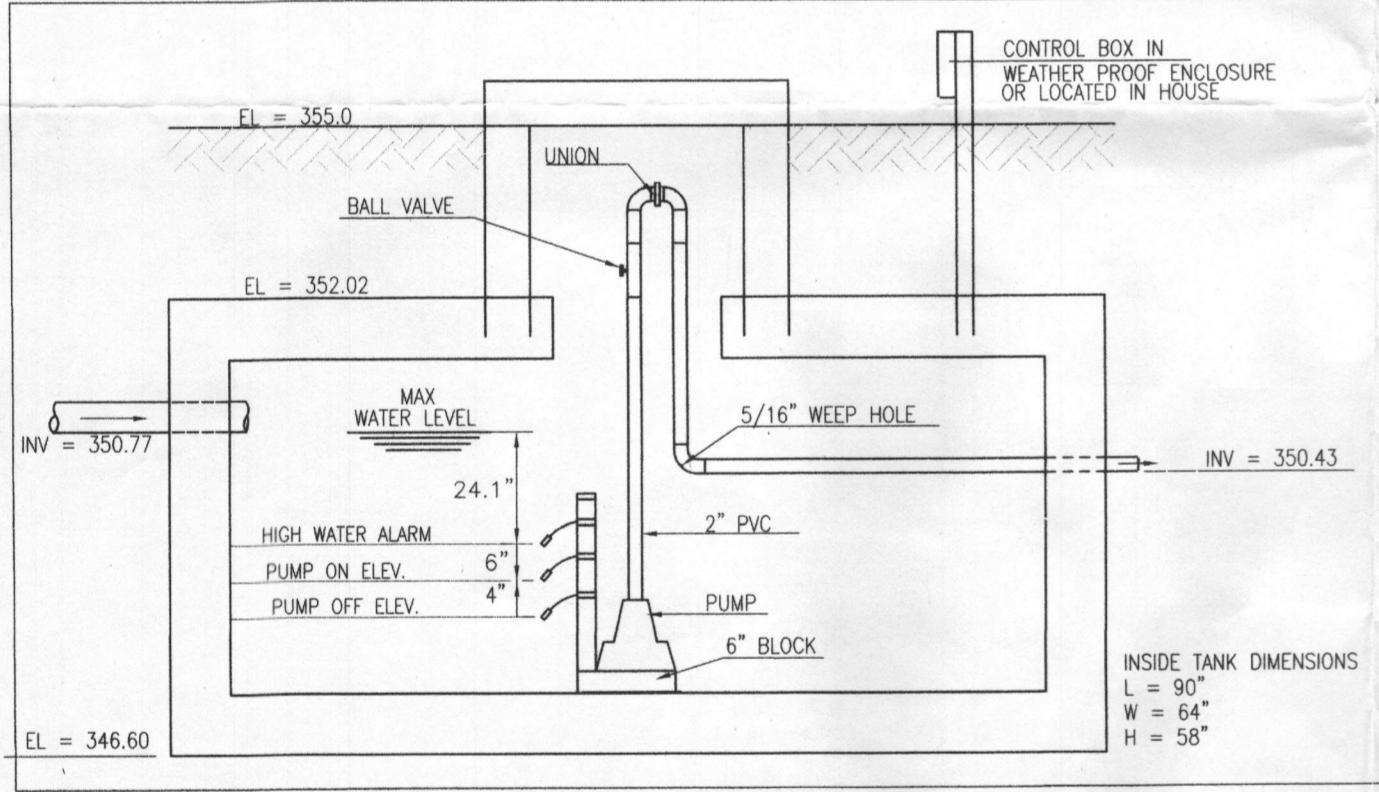
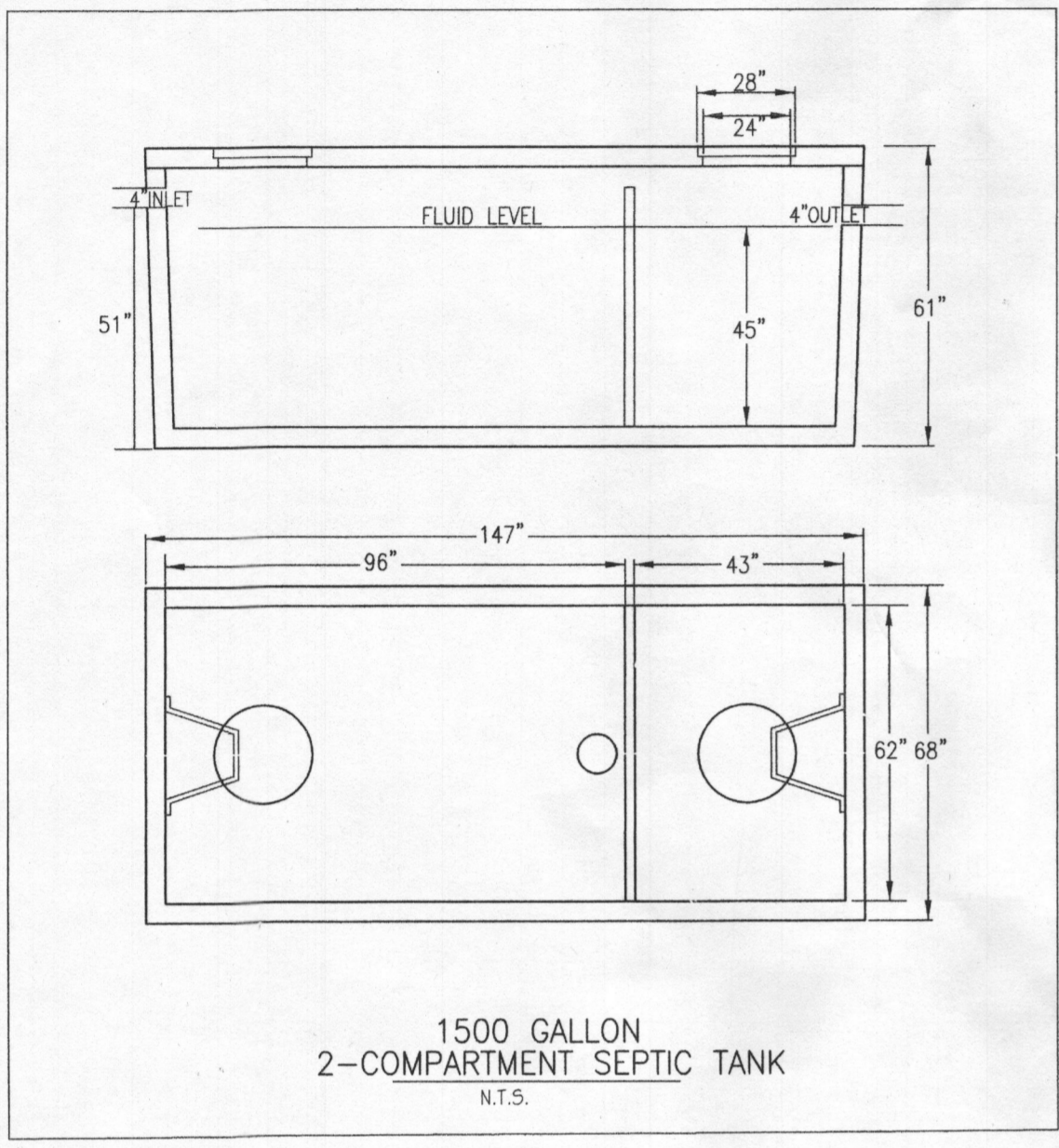
A handwritten signature in black ink, appearing to read "Kim Fogle", written over a horizontal line.

Kim Fogle
Fogle's Septic Clean, Inc.

MCS (NAD83/91)



- GENERAL NOTES:
- OWNER: DONG KIL YANG & SU YANG
DEED REFERENCE: LIBER 9096 AT FOLIO 320
DATE: MARCH 11, 2005
GRANTOR: 50AM, LLC
 - TAX MAP: 45 GRID: B PARCEL: 62
 - NEAREST POTABLE WATER SUPPLY: FULTON, DISTANCE: 2.0 MILES ±
 - THERE IS NO FLOOD HAZARD AREA (100 YEAR FLOODPLAIN) LOCATED ON THIS PROPERTY ACCORDING TO FEMA FLOOD INSURANCE RATE MAP, COMMUNITY PANEL NO. 24027C01400, EFFECTIVE: NOVEMBER 6, 2013.
 - TOPOGRAPHY AND FEATURES ON THE SUBJECT PROPERTY LOCATED/CONFIRMED BY FIELD LOCATIONS BY VANMAR ASSOCIATES. TOPOGRAPHY AND PLANNING FEATURES ON ADJOINING PROPERTIES TAKEN FROM COPYRIGHTED GIS DATA FROM HOWARD COUNTY. CONTOUR INTERVAL IS 2 FEET. VERTICAL DATUM IS NAVD83.
 - THERE ARE NO KNOWN WELLS OR SEPTIC SYSTEMS WITHIN 100' OF THE PROPERTY BOUNDARY UNLESS OTHERWISE SHOWN HEREON.
 - THE EXISTING WELLS SHOWN ON THIS PLAN HAVE BEEN FIELD LOCATED BY VANMAR ASSOCIATES AND ACCURATELY SHOWN.
 - SOIL TYPES: CODORUS (Co), MANOR (MaC, MaD)
HOWARD COUNTY SOILS MAP GRID No. 198.
 - ZONING DISTRICT: RR-DEO
 - THE NEW WELL MUST BE DRILLED AND THE OLD WELL ABANDONED PRIOR TO BUILDING PERMIT APPROVAL.
 - THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREAS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT.
 - THIS AREA DESIGNATES A PRIVATE SEWERAGE EASEMENT OF AT LEAST 10,000 SQUARE FEET AS REQUIRED BY MARYLAND STATE DEPARTMENT OF ENVIRONMENT FOR INDIVIDUAL SEWERAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWERAGE IS AVAILABLE. THESE EASEMENTS SHALL BECOME NULL AND VOID UPON CONNECTION TO PUBLIC SEWERAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENTS. RECOGNITION OF A MODIFIED SEWERAGE EASEMENT SHALL NOT BE NECESSARY.
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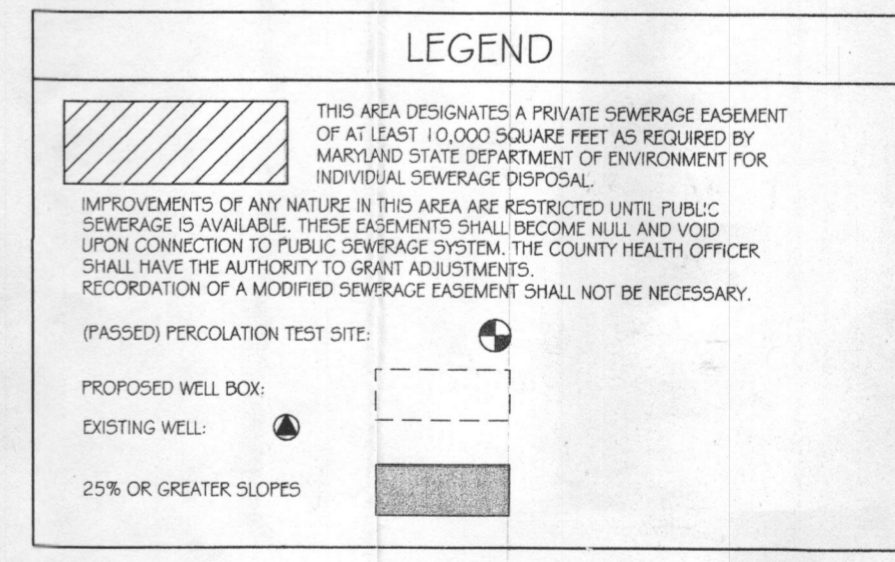
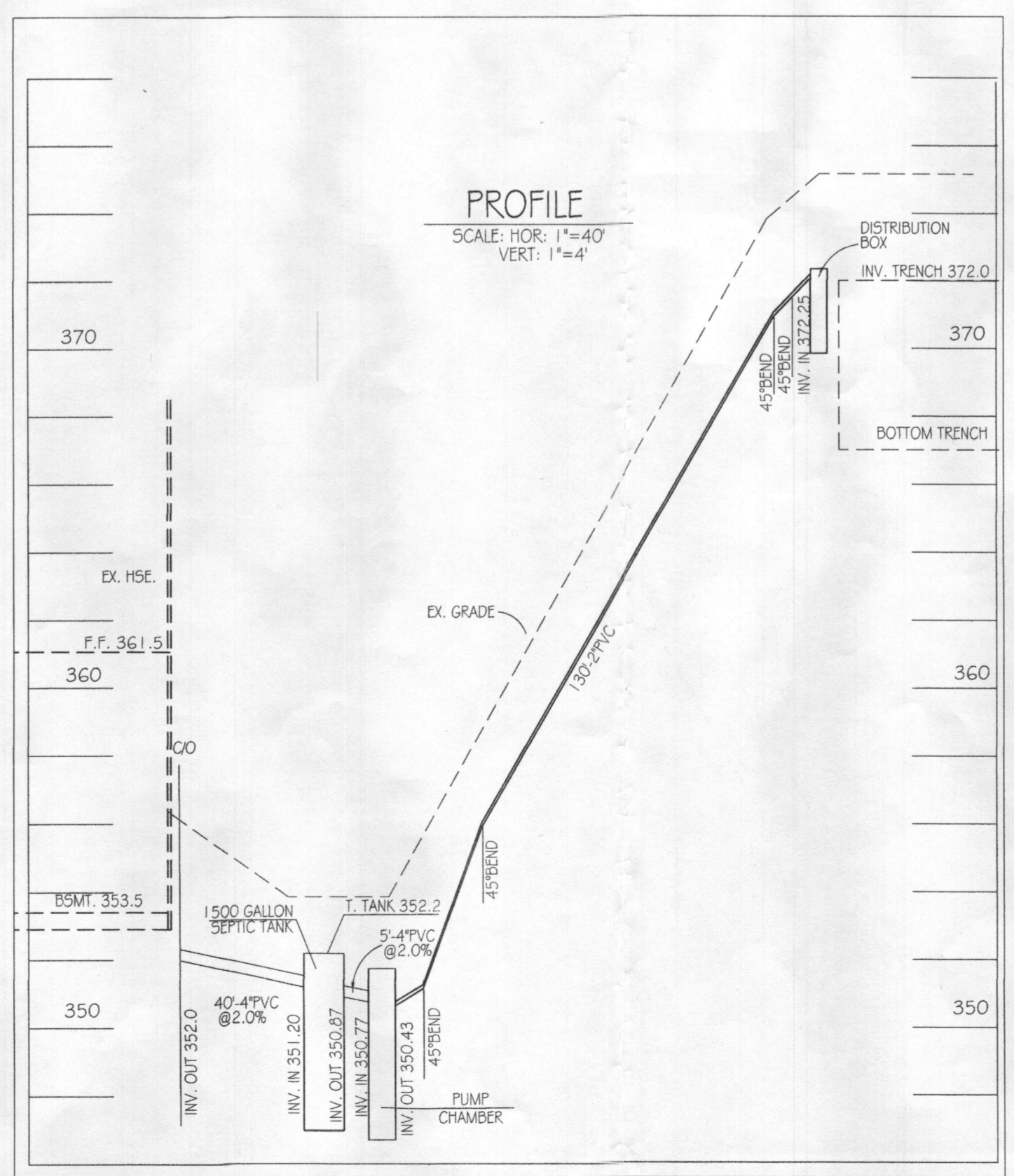
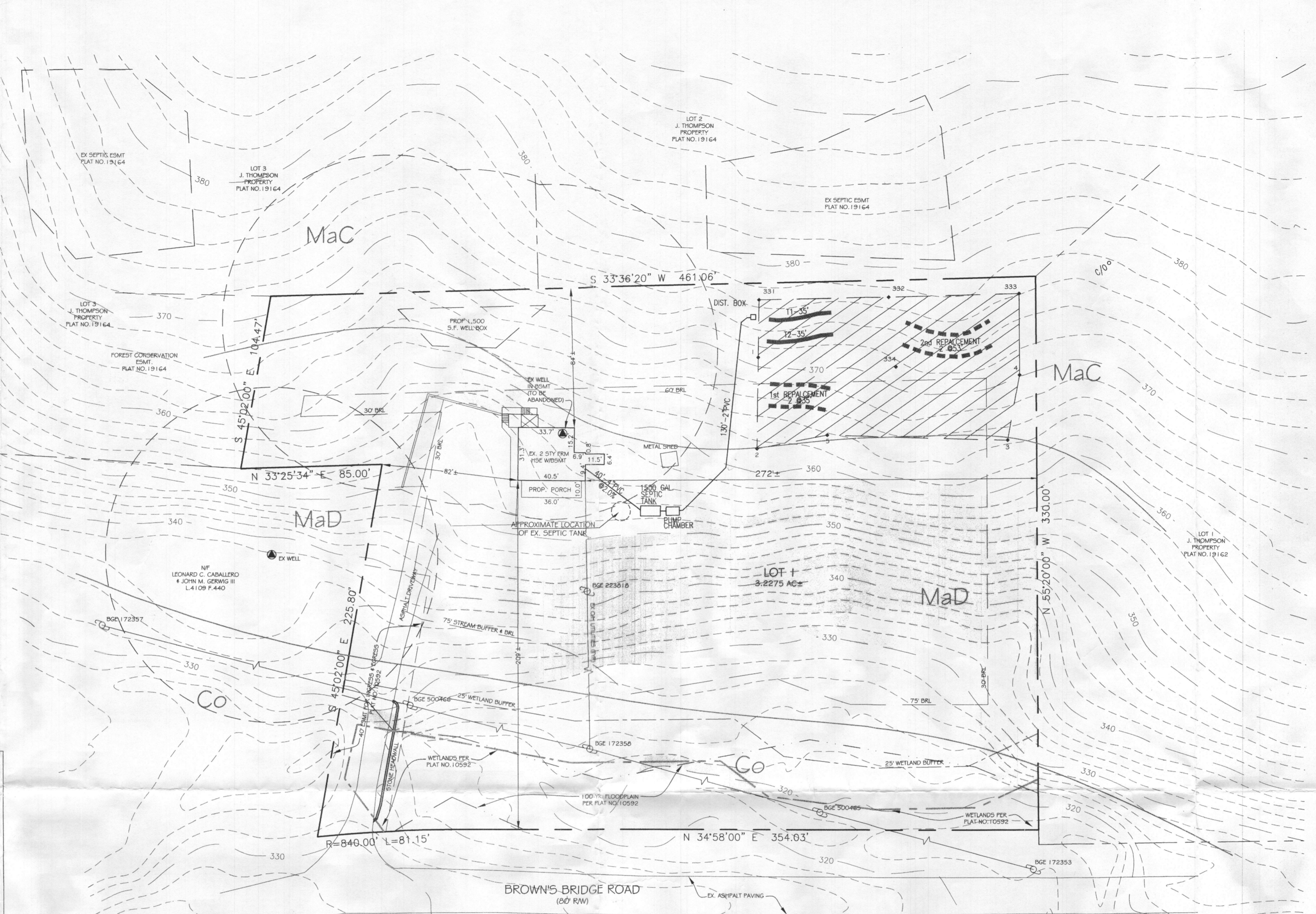


TOTAL DESIGN HEAD (THD) COMPUTATION

STATIC HEAD (372.25 - 347.43)	24.8
FRICTION HEAD	3.3
TOTAL DESIGN HEAD (THD)	28.1

LPS PUMP CHART

1000 GAL-1 CHAMBER TANK	GOULDS WE-05H
MAX. PUMP FLOW RATE	= 33.3 GPM
PIPE	= 2" PLASTIC
PIPE LENGTH	= 130 FEET
ELEV. DIFF.	= 24.8 FEET
TDH	= 28.1 FEET



SEPTIC SYSTEM TRENCH DESIGN

INITIAL NUMBER OF BEDROOMS = 4
APPLICATION RATE = 1.2 GPD / sq.ft.
DESIGN FLOW: 150 GPD X 4 BEDROOMS = 600 GPD
600 GPD / 1.2 GPD/sq.ft. = 500 sq.ft.
500 sq.ft. / 3 ft. WIDE TRENCH = 167 LF TRENCH
167 LF TRENCH X 0.42 REDUCTION CREDIT = 70 LF TRENCH
TRENCH 1 (T1) EX. GRD=375.0 - INV. TRENCH=372.0 - B. TRENCH=366.0
TRENCH 2 (T2) EX. GRD=373.0 - INV. TRENCH=370.0 - B. TRENCH=366.0

1st REPLACEMENT
APPLICATION RATE = 1.2 GPD / sq.ft.
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2nd REPLACEMENT
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DESIGN FLOW: 150 GPD X 4 BEDROOMS = 600 GPD
600 GPD / 0.8 GPD/sq.ft. = 750 sq.ft.
750 sq.ft. / 3 ft. WIDE TRENCH = 250 LF TRENCH
250 LF TRENCH X 0.42 REDUCTION CREDIT = 105 LF TRENCH

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 - THE WELL TAG (#NO.) HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN.
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 - THE PROPERTY LINE CLOSEST TO PERC HOLE #59 MUST BE STAKED PRIOR TO SYSTEM INSTALLATION BY A LICENSED SURVEYOR.

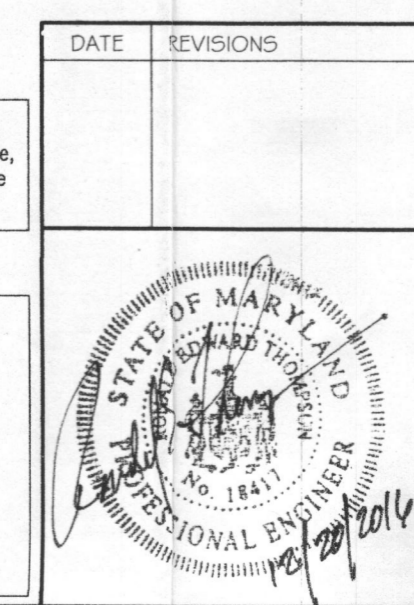
OWNER/APPLICANT:
ALPENSTOCK, LLC
836 I RESERVOIR ROAD
FULTON, MD 20759
240-393-1287

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. 18417, Expiration Date: 9-18-17.

APPROVED:
FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT

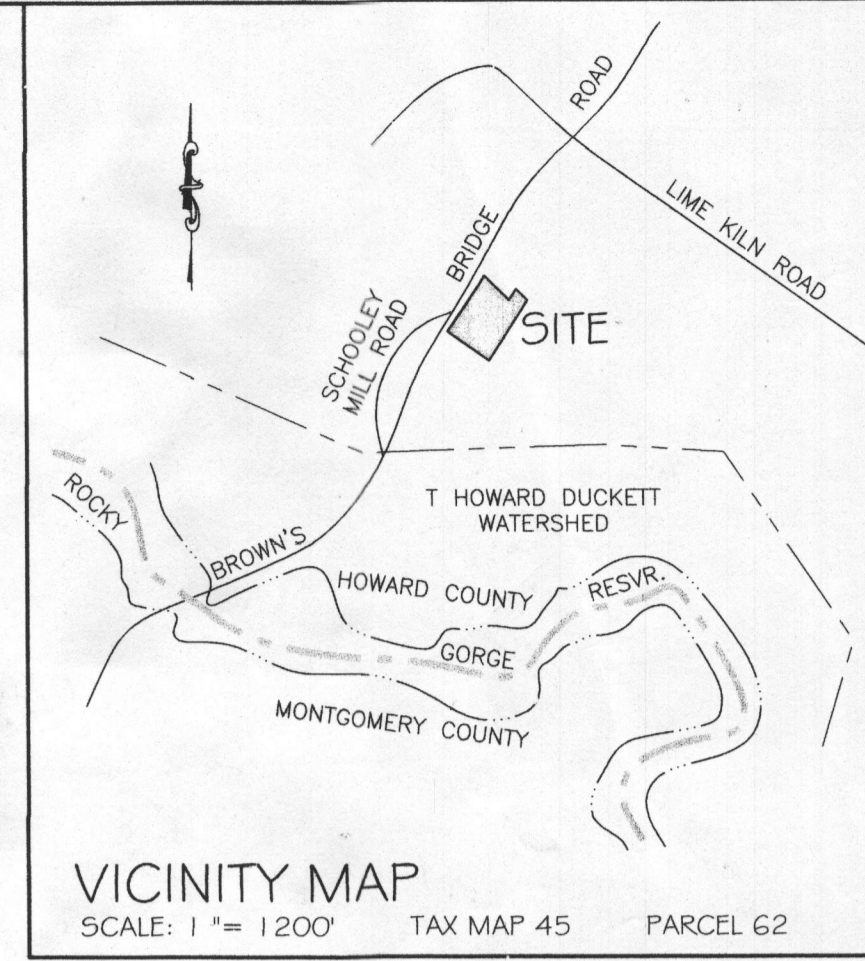
HOWARD COUNTY HEALTH OFFICER DATE

Approved Septic System Plan
Howard County Health Department
Signature: Hank Oswald Date: 12/21/16

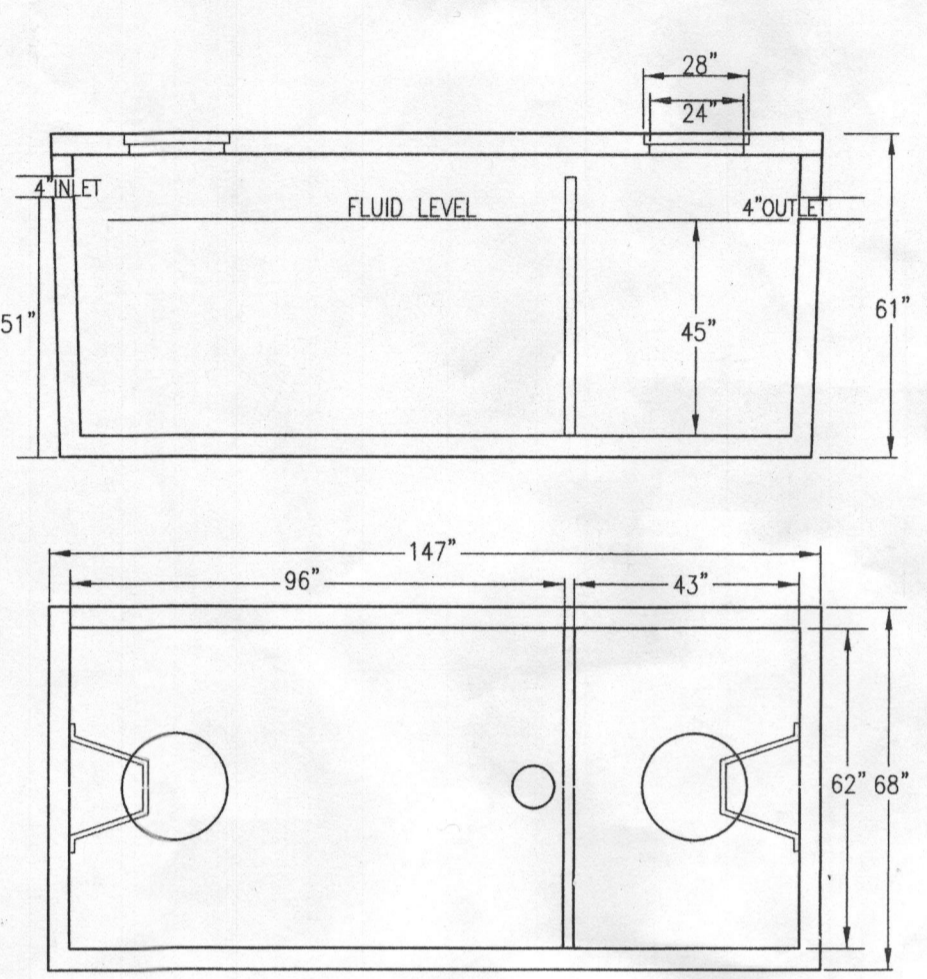
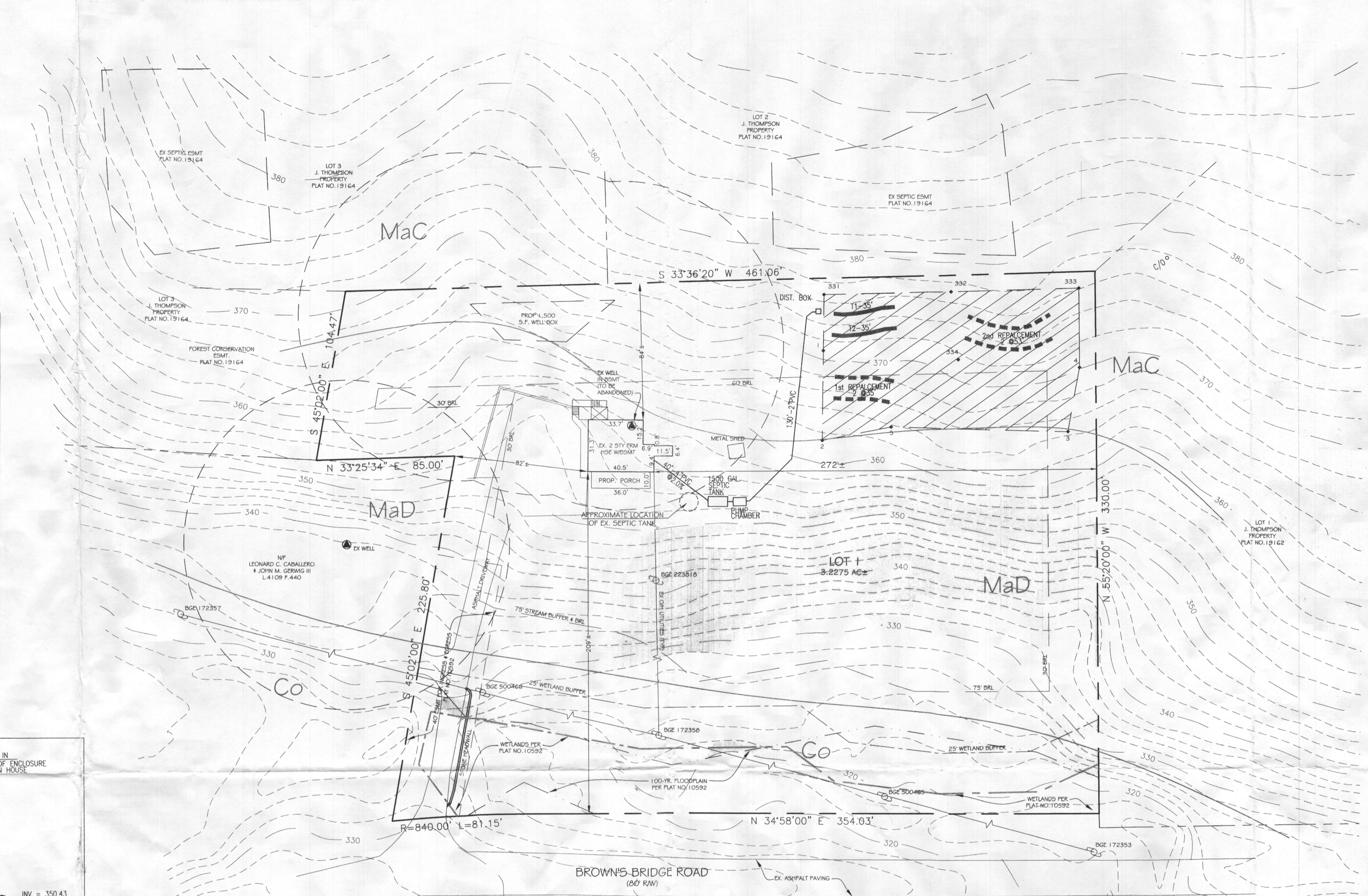


ONSITE SEWERAGE DISPOSAL SYSTEM DESIGN
LOT 1
RIVERVIEW
PLAT NO. 10592
806 I BROWN'S BRIDGE ROAD
FIFTH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
SCALE: 1" = 40' DECEMBER, 2016

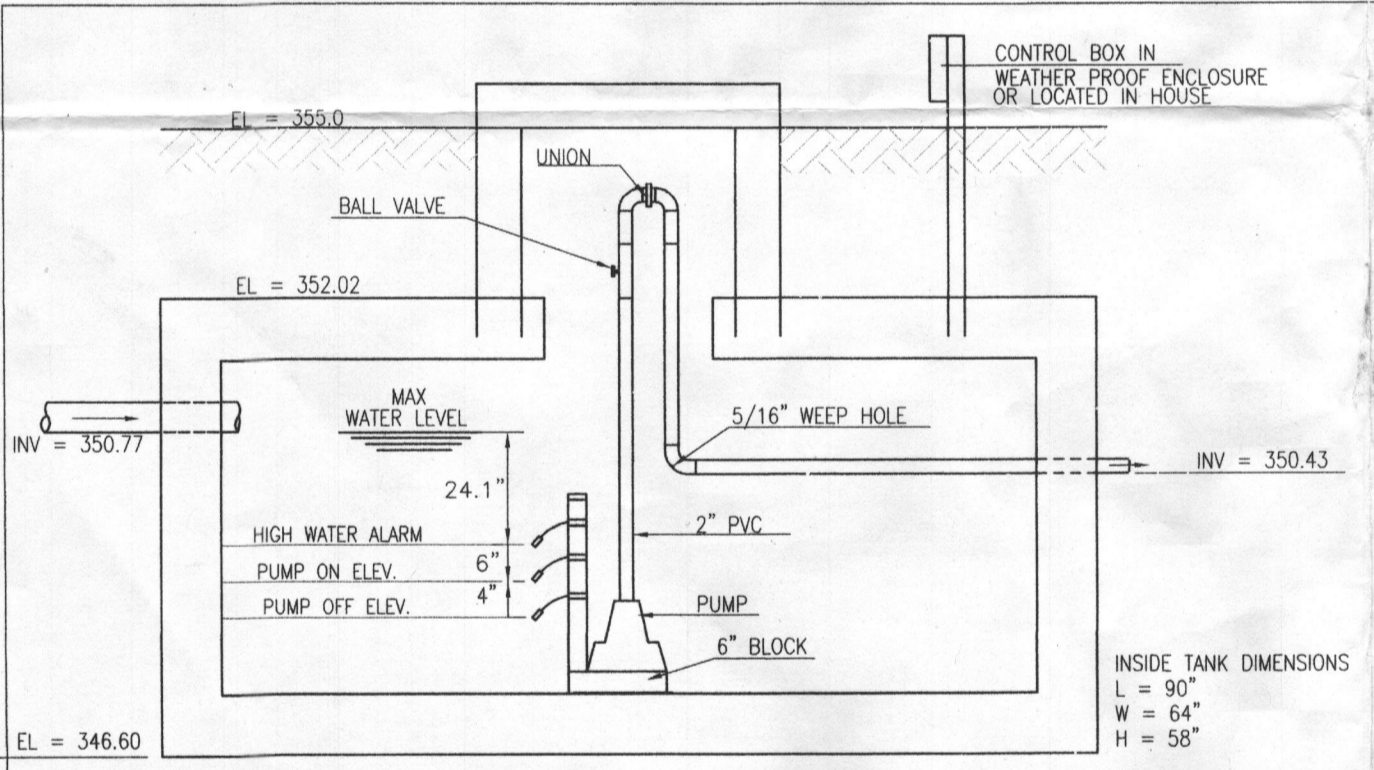
VANMAR ASSOCIATES, INC.
Engineers Surveyors Planners
310 South Main Street P.O. Box 328 Mount Airy, Maryland 21771
(301) 829-2890 (301) 851-5015 (410) 549-2751



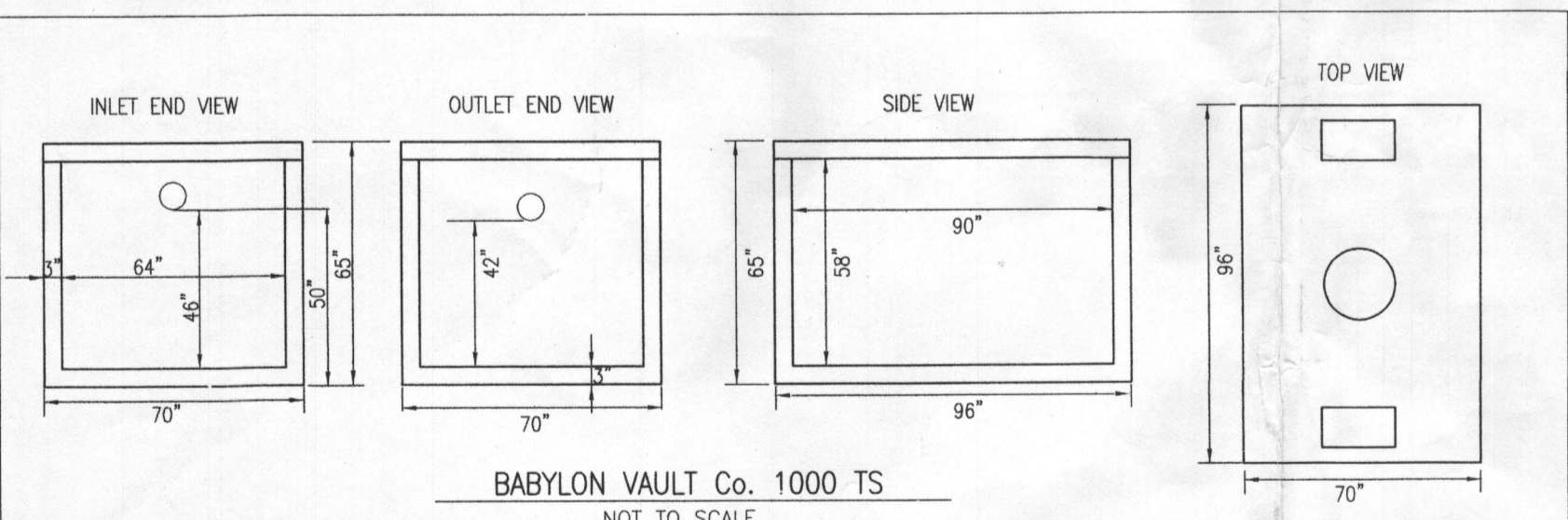
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DEED REFERENCE: LIBER 9096 AT FOLIO 320
DATE: MARCH 11, 2005
GRANTOR: SDAM, LLC
 - TAX MAP: 45 GRID: 8 PARCEL: G2
 - NEAREST POTABLE WATER SUPPLY: FULTON, DISTANCE: 2.0 MILES ±
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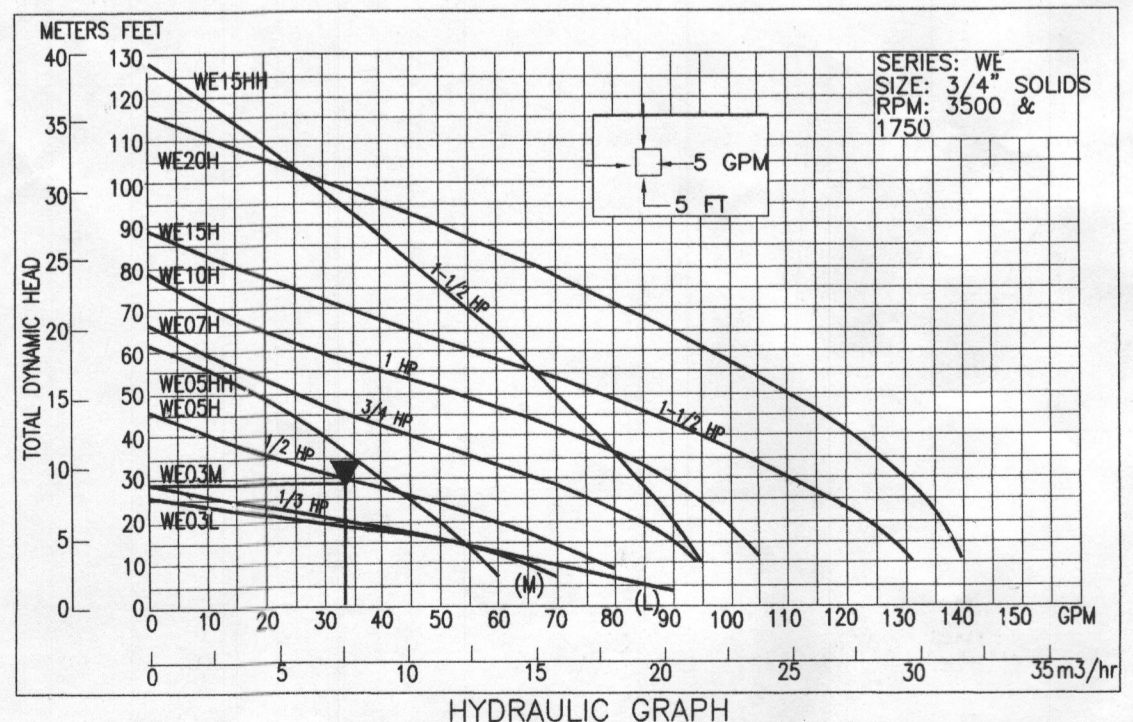
1500 GALLON
2-COMPARTMENT SEPTIC TANK
N.T.S.



TOP SEAM 1000 GAL. PUMP CHAMBER
NOT TO SCALE



BABYLON VAULT Co. 1000 TS
NOT TO SCALE

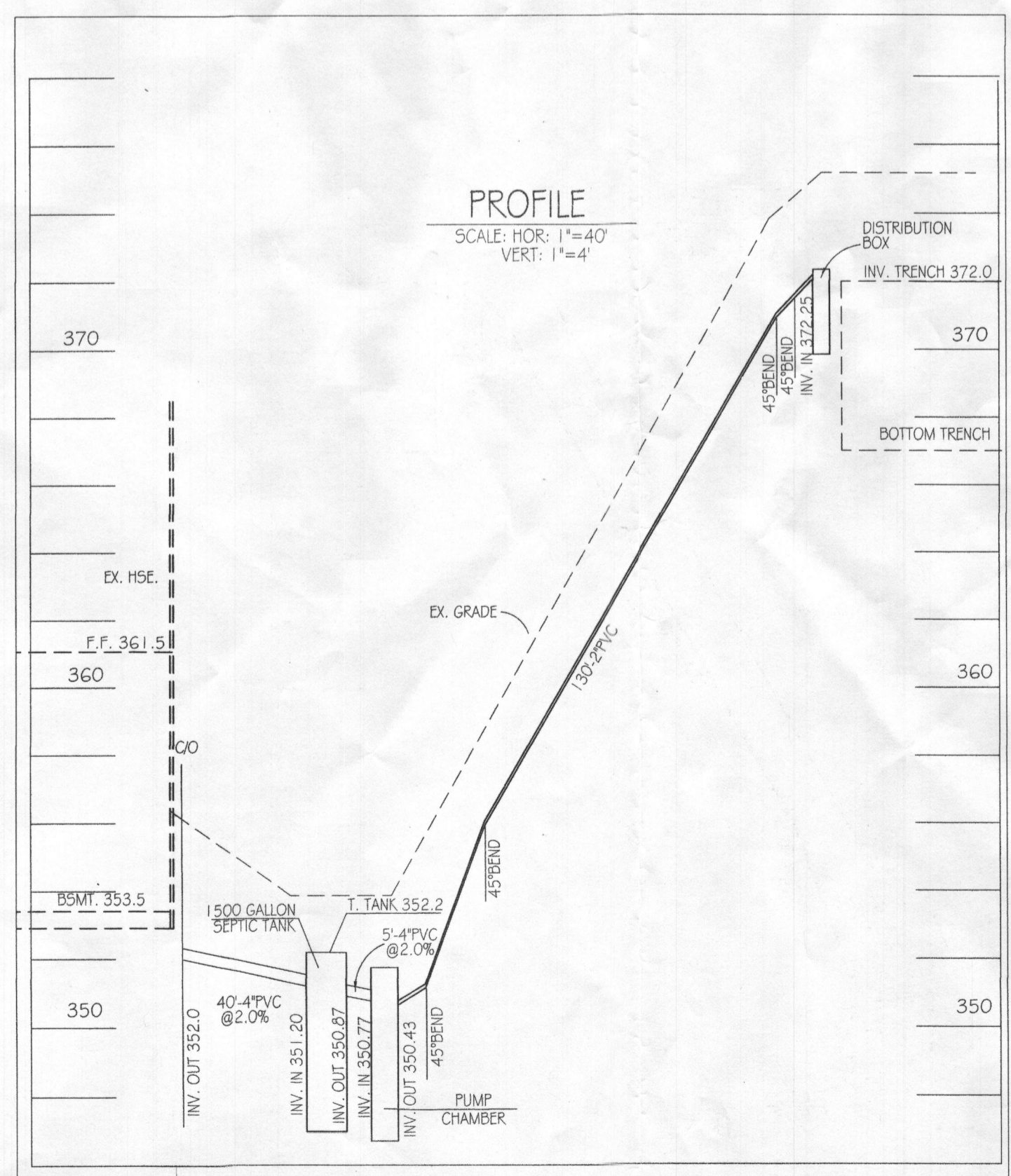


TOTAL DESIGN HEAD (TDH) COMPUTATION

STATIC HEAD (372.25 - 347.43)	24.8
FRICTION HEAD PIPE 1.88x(133+3x.5)/100	3.3
FITTINGS: 4-4" = 16	
DISCONNECT: 1-30" x 3"	= 3
BALL VALVE: X0.5	= 0.5
TOTAL DESIGN HEAD (TDH)	28.1

LPS PUMP CHART

1000 GAL. 1 CHAMBER TANK	GULDS WE-05H
MAX. PUMP FLOW RATE = 33.3 GPM	
PIPE = 2" PLASTIC	
PIPE LENGTH = 130 FEET	
ELEV. DIFF. = 24.8 FEET	
TDH = 28.1 FEET	



PROFILE
SCALE: HOR: 1"=40'
VERT: 1"=4'

LEGEND

THIS AREA DESIGNATES A PRIVATE SEWERAGE EASEMENT OF AT LEAST 10,000 SQUARE FEET AS REQUIRED BY MARYLAND STATE DEPARTMENT OF ENVIRONMENT FOR INDIVIDUAL SEWERAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWERAGE IS AVAILABLE. THESE EASEMENTS SHALL BECOME NULL AND VOID UPON CONNECTION TO PUBLIC SEWERAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENTS. RECORDATION OF A MODIFIED SEWERAGE EASEMENT SHALL NOT BE NECESSARY.

(PASSED) PERCOLATION TEST SITE:

PROPOSED WELL BOX:

EXISTING WELL:

25% OR GREATER SLOPES:

SEPTIC SYSTEM TRENCH DESIGN

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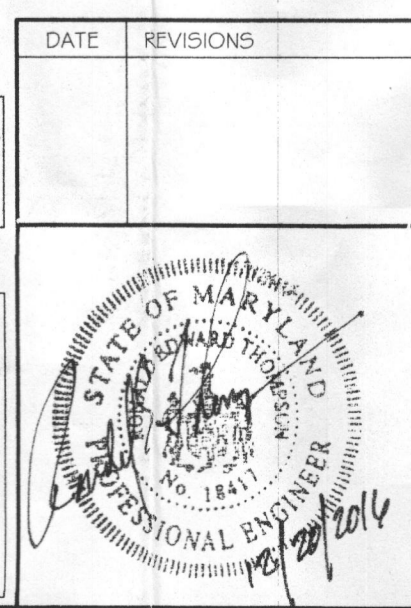
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Howard County Health Department
Hank Ossoff 12/21/16
Signature Date

OWNER/APPLICANT:
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8361 RESERVOIR ROAD
FULTON, MD 20759
240-393-1287

PROFESSIONAL CERTIFICATION
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HOWARD COUNTY HEALTH OFFICER DATE



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FIFTH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
SCALE: 1"= 40' DECEMBER, 2016

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