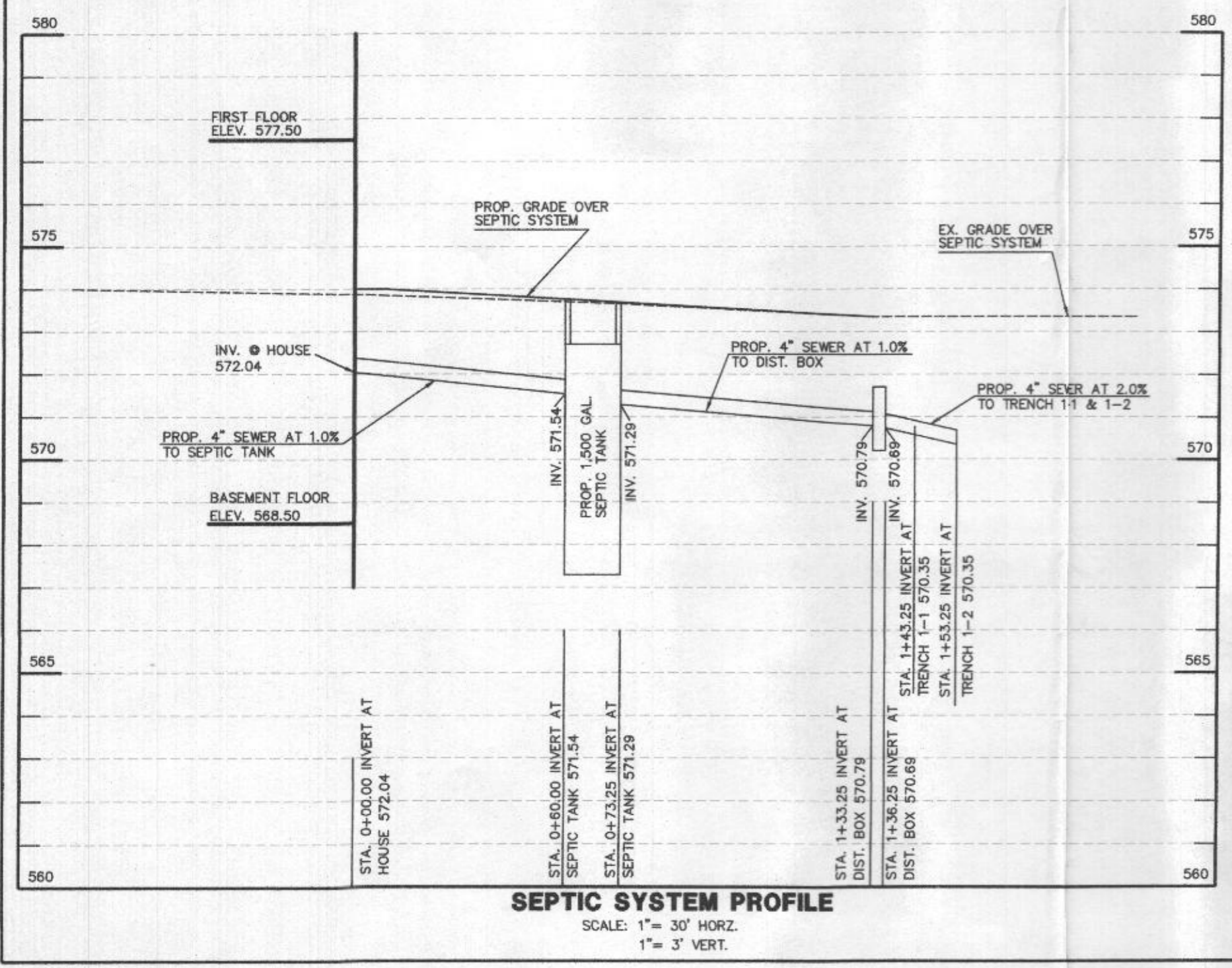


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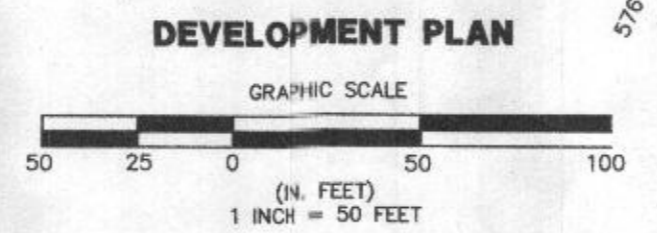
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"Approval for Private Water and Private Sewerage systems"

Health Officer, Howard County Dept. _____ Date _____



INDEX OF SHEETS	
SHEET 1 of 2	VICINITY MAP, ONSITE SEWAGE DISPOSAL PLAN AND SEPTIC SYSTEM PROFILE
SHEET 2 of 2	SEPTIC SYSTEM NOTES AND DETAILS

M.A.F. & ASSOCIATES, LLC
 55 JONES STATION ROAD, W.
 SEVERNA PARK, MD 21146
 PHONE: 443-864-8589
 EMAIL: MFORGEN@AOL.COM

PROFESSIONAL CERTIFICATION
 PROFESSIONAL CERTIFICATION: I, MICHAEL J. WERNER, 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. 23380, EXPIRATION DATE 8-19-20.

(Signature)
 MICHAEL J. WERNER
 MD PE #23380

OWNER:
 MICHAEL SMITH & HANNAH ARNOLD
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 GLENWOOD, MD 21738
 PHONE: 917-885-1217
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DEVELOPER:
 MICHAEL SMITH
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ADDRESS CHART	
LOT/PARCEL #	STREET ADDRESS
LOT 1/PARCEL 34	1421 UNDERWOOD ROAD, SYKESVILLE, MD 21784

ONSITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN			
GOOD NEIGHBORHOOD LOT 1 PLAT #19999 SINGLE-FAMILY DWELLING			
TAX MAP 9 BLOCK 8 PARCEL 34	TAX ACCOUNT #3-294137	ZONING: RC DEO	
THIRD ELECTION DISTRICT	DATE: NOVEMBER 20, 2020	HOWARD COUNTY, MARYLAND	

Approved Septic System Plan
 Howard County Health Department
(Signature) 12-8-20
 Signature Date
 4 Bedrooms

PURPOSE NOTE:

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NOTE:

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BOUNDARY AND LOCATION NOTE:

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SEPTIC TRENCH DESIGN NOTE:

THE SEPTIC TRENCHES SHOWN ON THIS PLAN WERE SIZED BASED ON 5 BEDROOMS, A LOADING RATE OF 0.8 AND A SIDEWALL REDUCTION 0.62 FOR THE INITIAL AND REPLACEMENT TRENCHES.

MDE SEWAGE EASEMENT STATEMENT

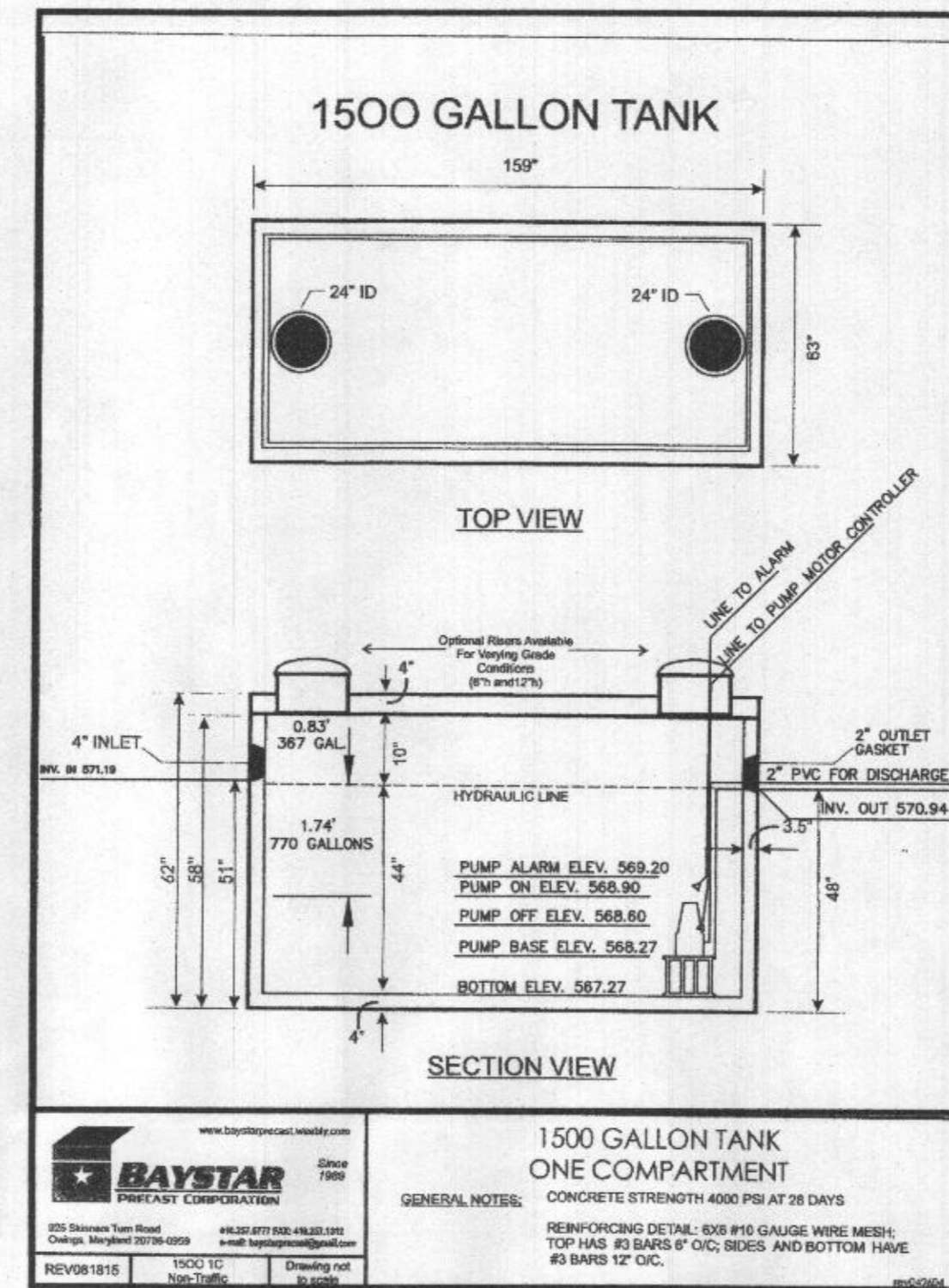
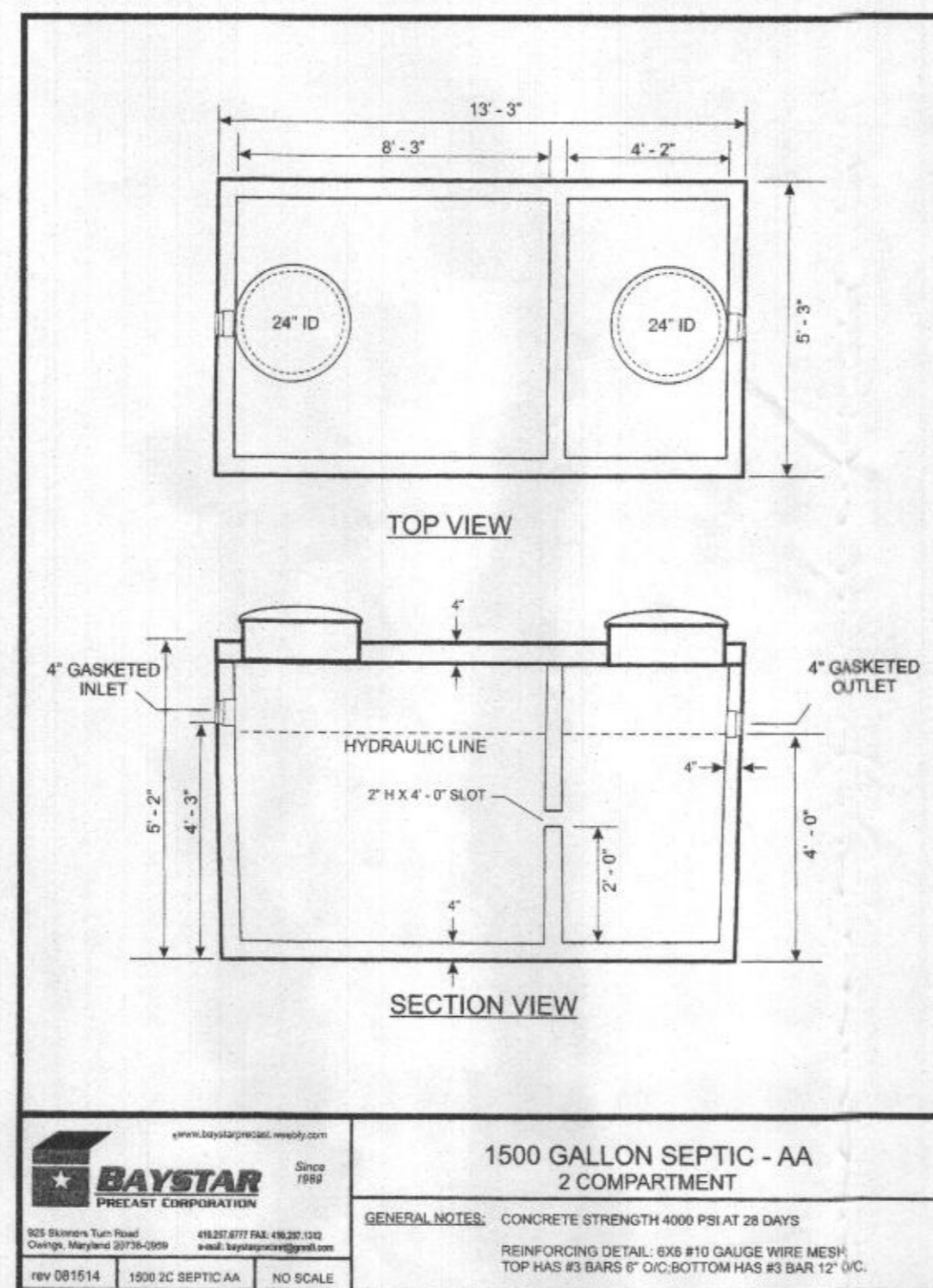
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SEPTIC TRENCH DESIGN CALCULATION

INITIAL TRENCHES (PERC 517 AND 518)	
5 X 150 = 937.50 = 312.50 X 0.62/3 = 193.75 LINEAR FEET	(USE 2-87 LIN.FT. TRENCHES)
0.8	
1ST REPLACEMENT TRENCHES (PERC A, B AND C)	
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SEPTIC SYSTEM INFORMATION

INV. OUT OF HOUSE.....	572.04
INV. IN SEPTIC TANK.....	571.54
INV. OUT OF SEPTIC TANK.....	571.29
TOP OF SEPTIC TANK.....	572.29
GROUND ELEV. OVER SEPTIC TANK.....	573.60
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GROUND ELEV. OVER DIST. BOX.....	574.30

SEPTIC TRENCH INFORMATION

TRENCH 1-1	TRENCH 2-1	TRENCH 3-1
TRENCH LENGTH 97 LIN. FT.	TRENCH LENGTH 86 LIN. FT.	TRENCH LENGTH 86 LIN. FT.
GROUND ELEVATION 574.35	GROUND ELEVATION 574.85	GROUND ELEVATION 575.20
INVERT ELEVATION 570.35	INVERT ELEVATION 570.85	INVERT ELEVATION 571.20
BOTTOM ELEVATION 566.80	MAX. BOTTOM ELEVATION 567.35	BOTTOM ELEVATION 567.70
TRENCH 1-2	TRENCH 2-2	TRENCH 3-2
TRENCH LENGTH 97 LIN. FT.	TRENCH LENGTH 86 LIN. FT.	TRENCH LENGTH 86 LIN. FT.
GROUND ELEVATION 574.35	GROUND ELEVATION 575.75	GROUND ELEVATION 575.10
INVERT ELEVATION 570.35	INVERT ELEVATION 571.75	INVERT ELEVATION 571.10
BOTTOM ELEVATION 566.80	MAX. BOTTOM ELEVATION 568.25	BOTTOM ELEVATION 567.60

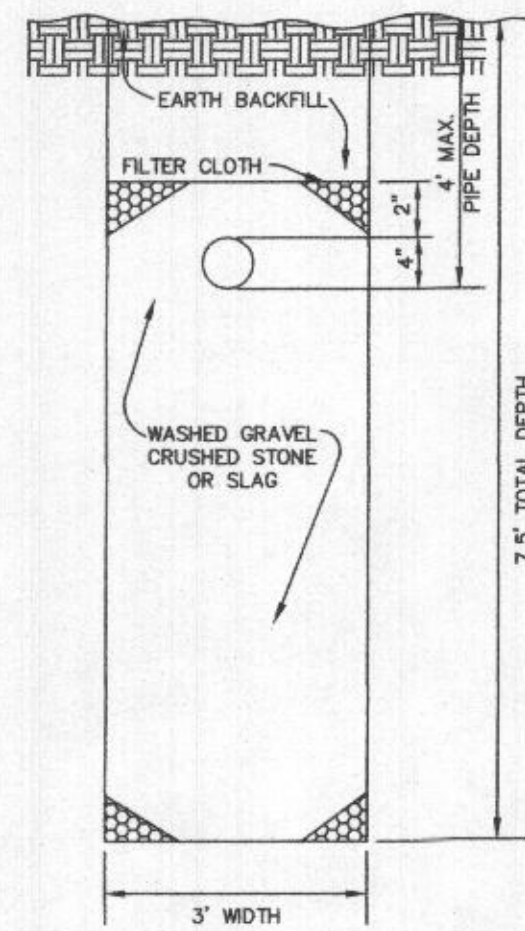
NOTE: SEPTIC SYSTEM ALARM WILL BE ON A CIRCUIT SEPARATE FROM ANY OTHER SEPTIC SYSTEM COMPONENTS OR ALARMS

PUMP INFORMATION

PIPE INFORMATION:
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SEPTIC TRENCH DETAIL
NOT TO SCALE

"Approval for Private Water and Private Sewerage systems"

 Health Officer, Howard County Health Dept. Date

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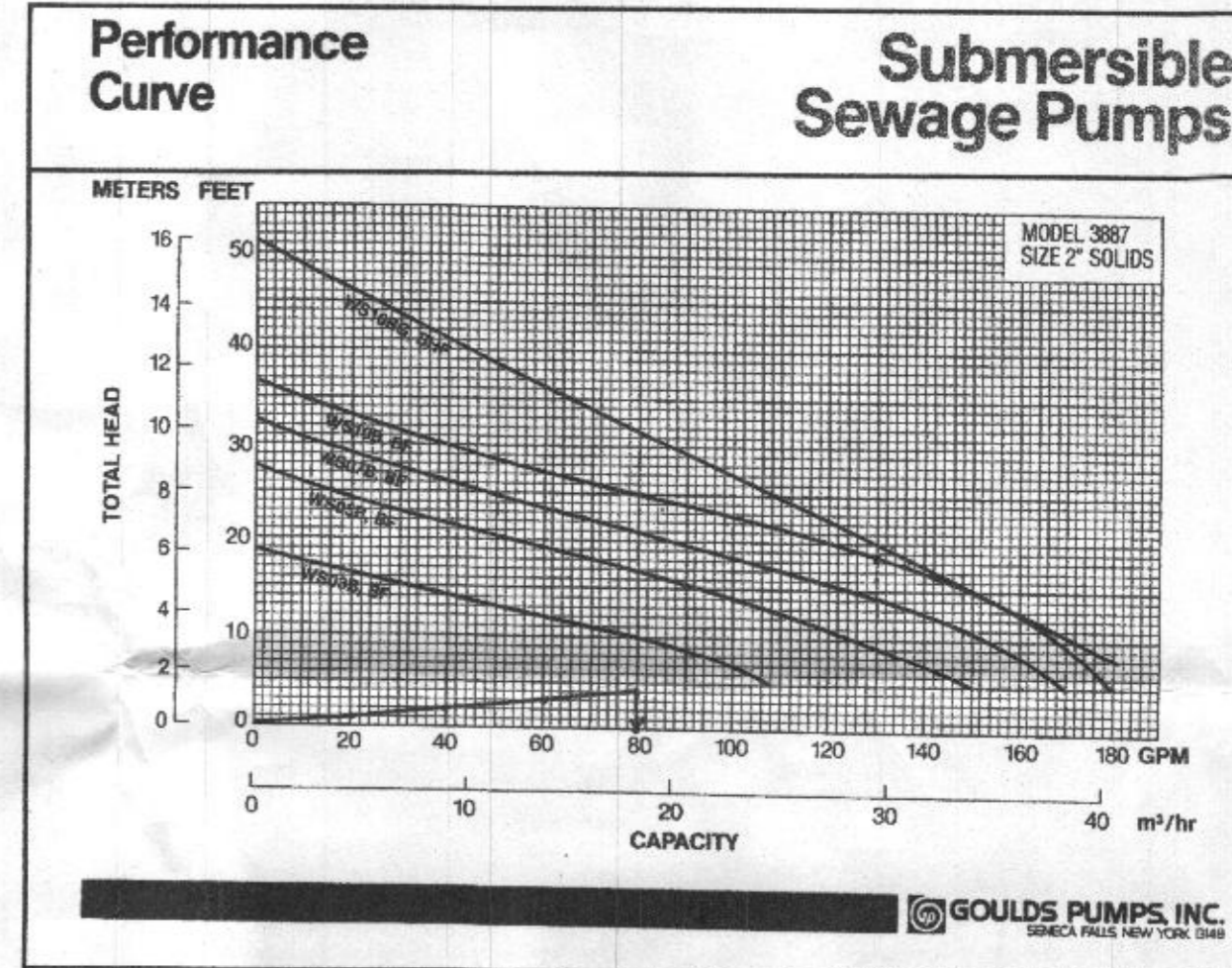
ADDRESS CHART

LOT/PARCEL #	STREET ADDRESS
LOT 1/PARCEL 34	1421 UNDERWOOD ROAD, SYKESVILLE, MD 21784

ONSITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN

GOOD NEIGHBORHOOD LOT 1 PLAT #19999 SINGLE-FAMILY DWELLING

TAX MAP 9 BLOCK 8 PARCEL 34 TAX ACCOUNT #3-294137 ZONING: RC DEO
 DATE: NOVEMBER 20, 2020
 THIRD ELECTION DISTRICT HOWARD COUNTY, MARYLAND



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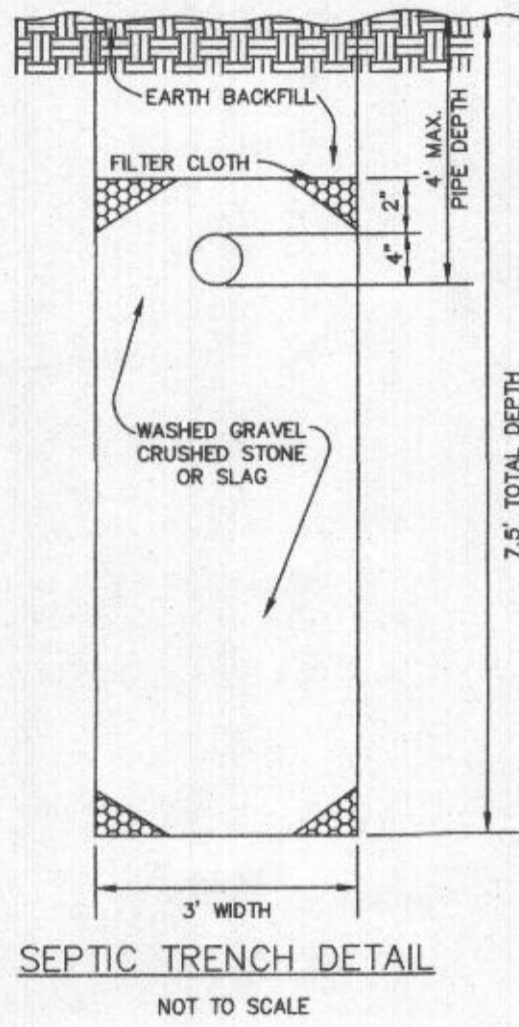
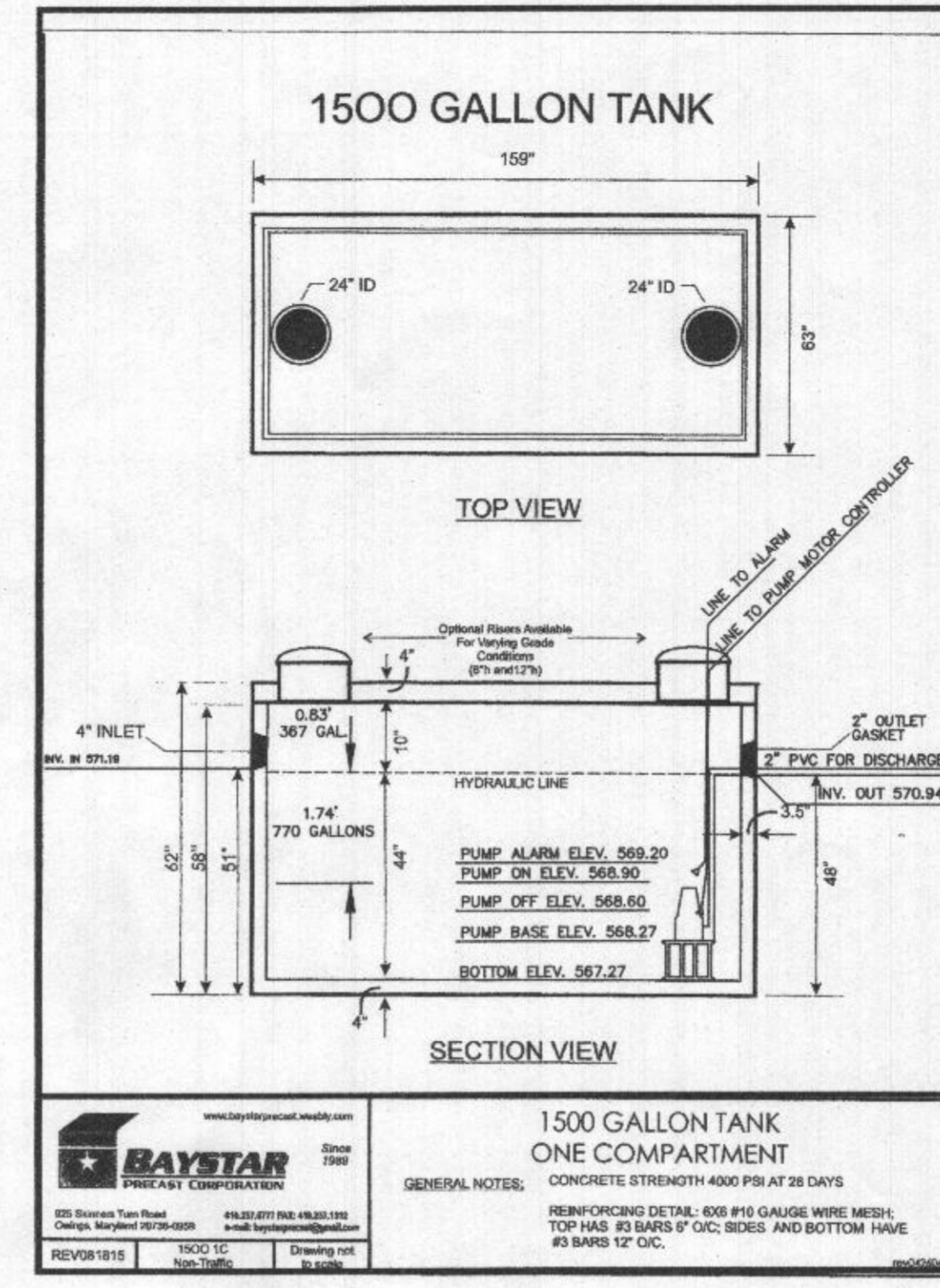
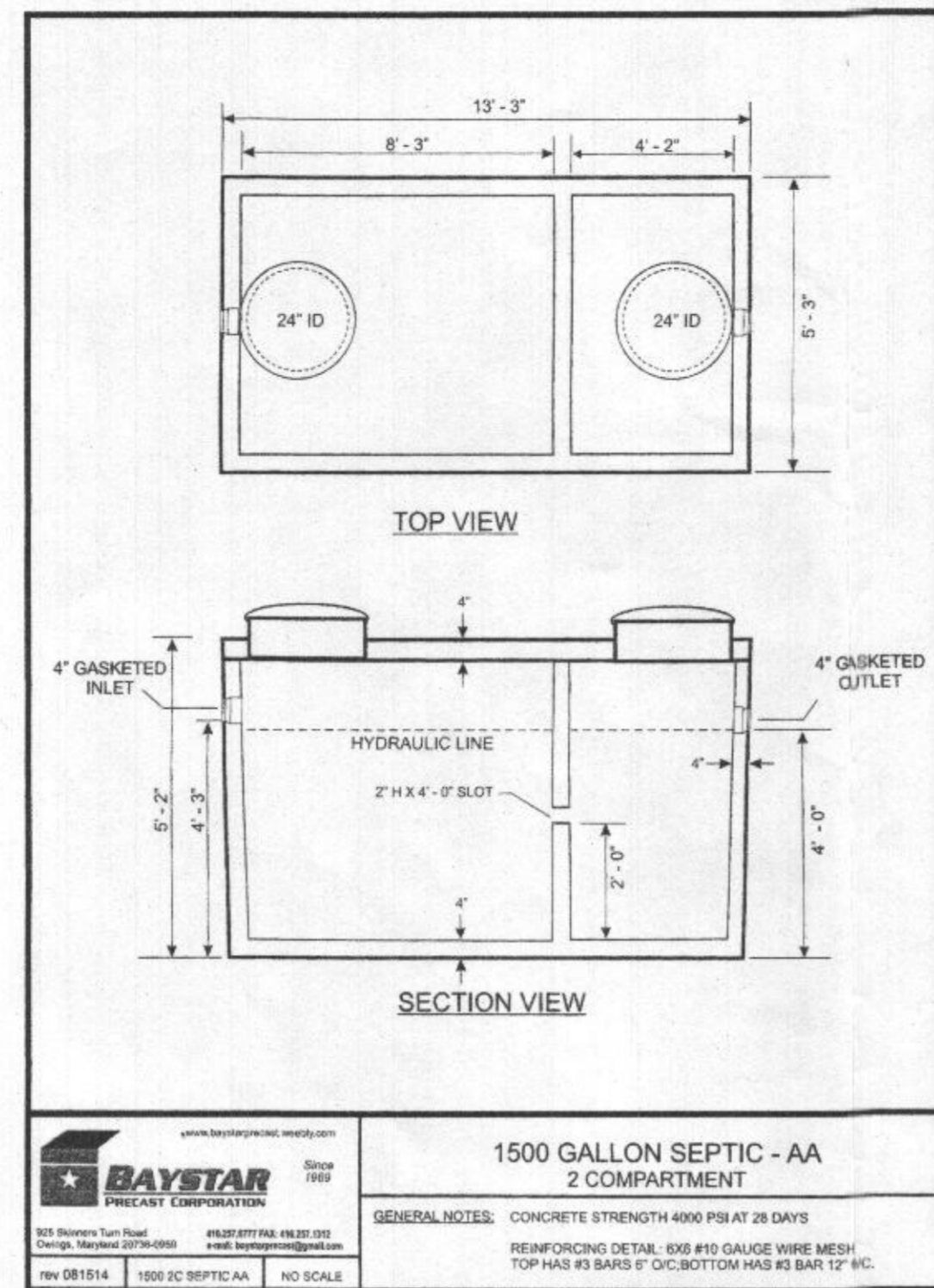
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TRENCH 2-2	86 LIN. FT.	575.75	571.75	568.25	568.25
TRENCH 3-1	86 LIN. FT.	575.20	571.20	567.70	567.70
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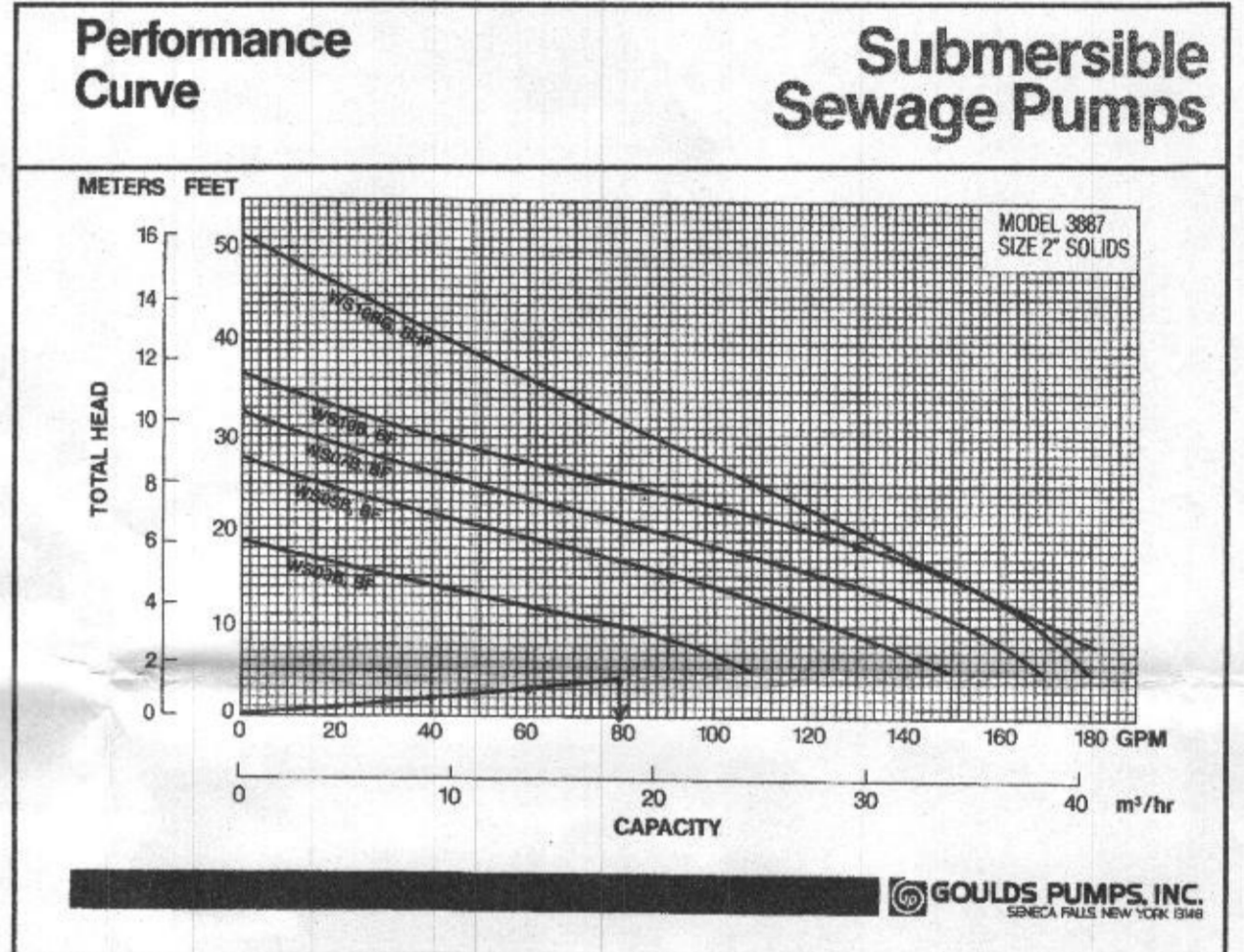
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Health Officer, Howard County Health Dept. Date

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MJW
 MICHAEL J. WERNER
 MD PE #23380
 Professional Certification: I, Michael J. Werner, 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. 23380, Expiration date 8-19-20.

11/20/20

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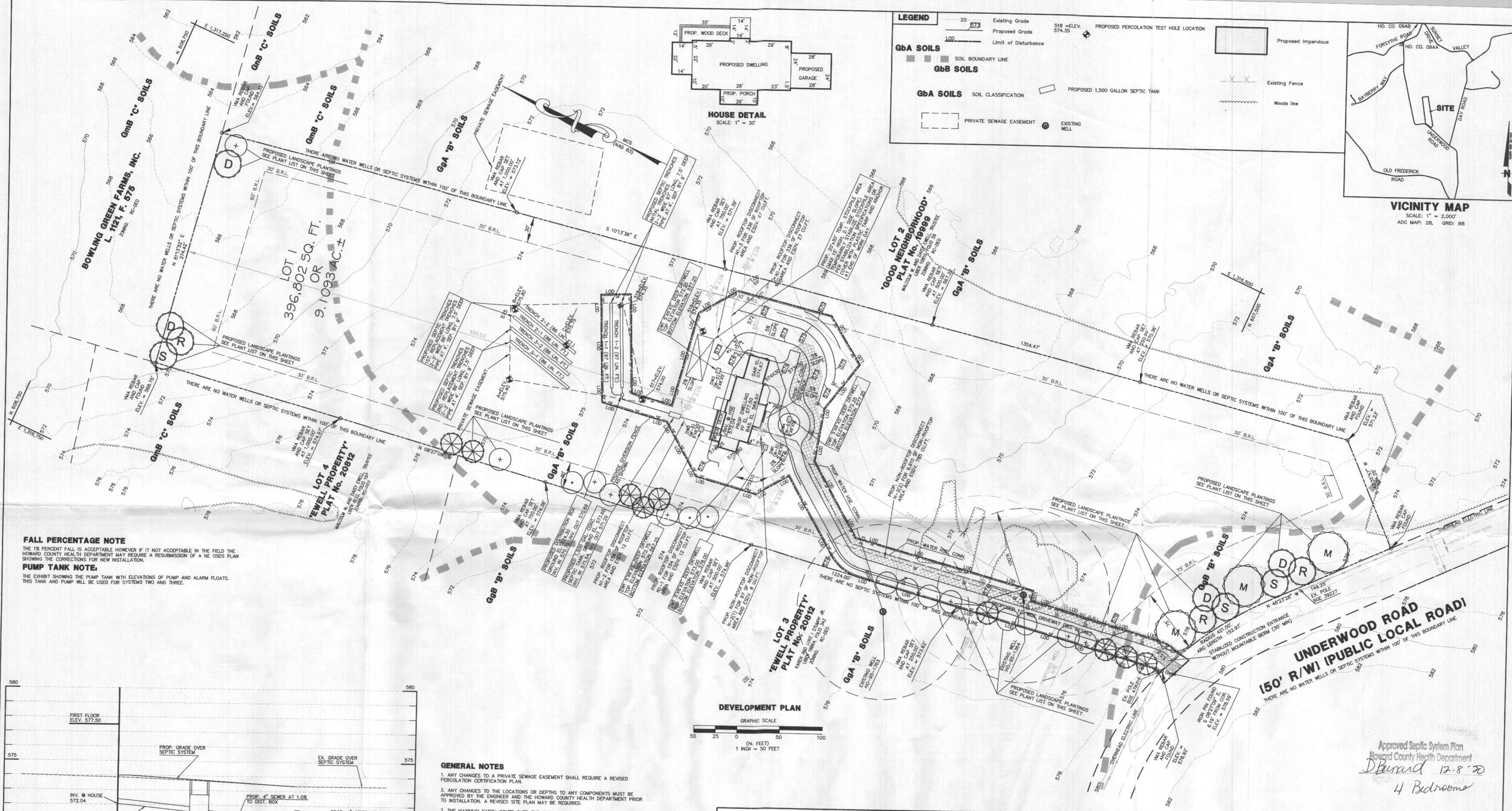
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TAX MAP 9 BLOCK 8 PARCEL 34 TAX ACCOUNT #3-294137 ZONING: RC DEO
 DATE: NOVEMBER 20, 2020
 THIRD ELECTION DISTRICT HOWARD COUNTY, MARYLAND

SHEET 2 of 2



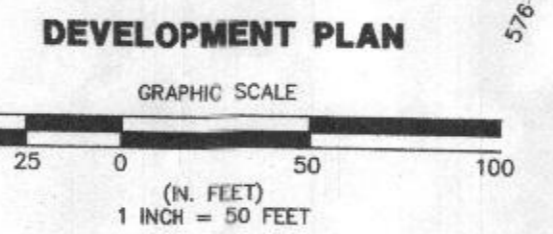
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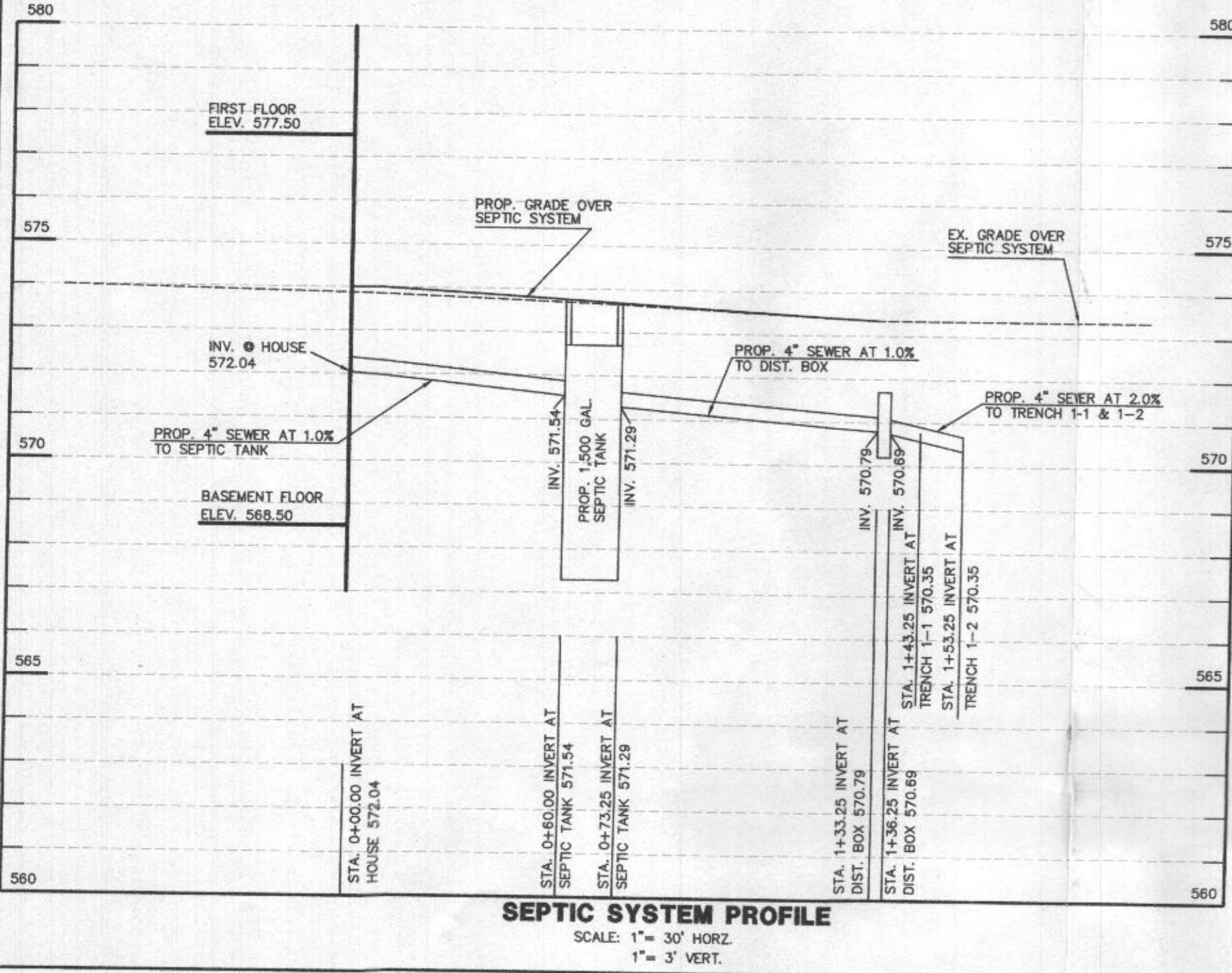
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 PROFESSIONAL ENGINEER
 DATE: _____

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THIRD ELECTION DISTRICT

SHEET 1 of 2

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Dennard 12-8-20
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