

**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](http://www.facebook.com/hocohealth)

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

RECEIPT DATE: 8/30/17 **ONSITE SEWAGE DISPOSAL SYSTEM** P 561504  
 APPROVAL DATE: 2/20/18 **PERMIT: CONSTRUCTION** A \_\_\_\_\_  
 PROPERTY ADDRESS: 12934 Folly Quarter Road  
 SUBDIVISION: Sejmenovic Property LOT: \_\_\_\_\_ TAX ID: 03-298264  
 CONTRACTOR: Freedom Septic EMAIL: kristin@freedomseptic.com  
 CONTRACTOR ADDRESS: 2809 Liberty Road / Eldersburg, MD 21784 PHONE: 410-795-2947  
 PROPERTY OWNER: Edin and Adevjia Sejmenovic EMAIL: \_\_\_\_\_  
 OWNER ADDRESS: 12934 Folly Quarter Road / Ellicott City, MD 21042 PHONE: \_\_\_\_\_  
 SEPTIC TANK SIZE (GALLONS): 1500 TANK MANUFACTURER: Mayer Bros.  
 PUMP MODEL: Gould's WE03M PUMP SIZE 1/3 hp PUMP TANK CAPACITY: 1500 gal

DISTRIBUTION SYSTEM:  GRAVITY  PRESSURE DOSED BEDROOMS: 4 APPLICATION RATE: 0.8

TRENCHES:	LINEAR FEET REQUIRED: <u>160'</u>	INLET DEPTH: <u>3'</u>
	TRENCH WIDTH: <u>3'</u>	MAXIMUM BOTTOM DEPTH: <u>5'</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:	Install 2 x 80' trenches in the NE corner of the SDA.	

ISSUED BY: Sarah Collins ISSUE DATE: 12/14/17 EXPIRATION DATE: 12/14/18

- 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 DOWNGRADE 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 17004614
- 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.**

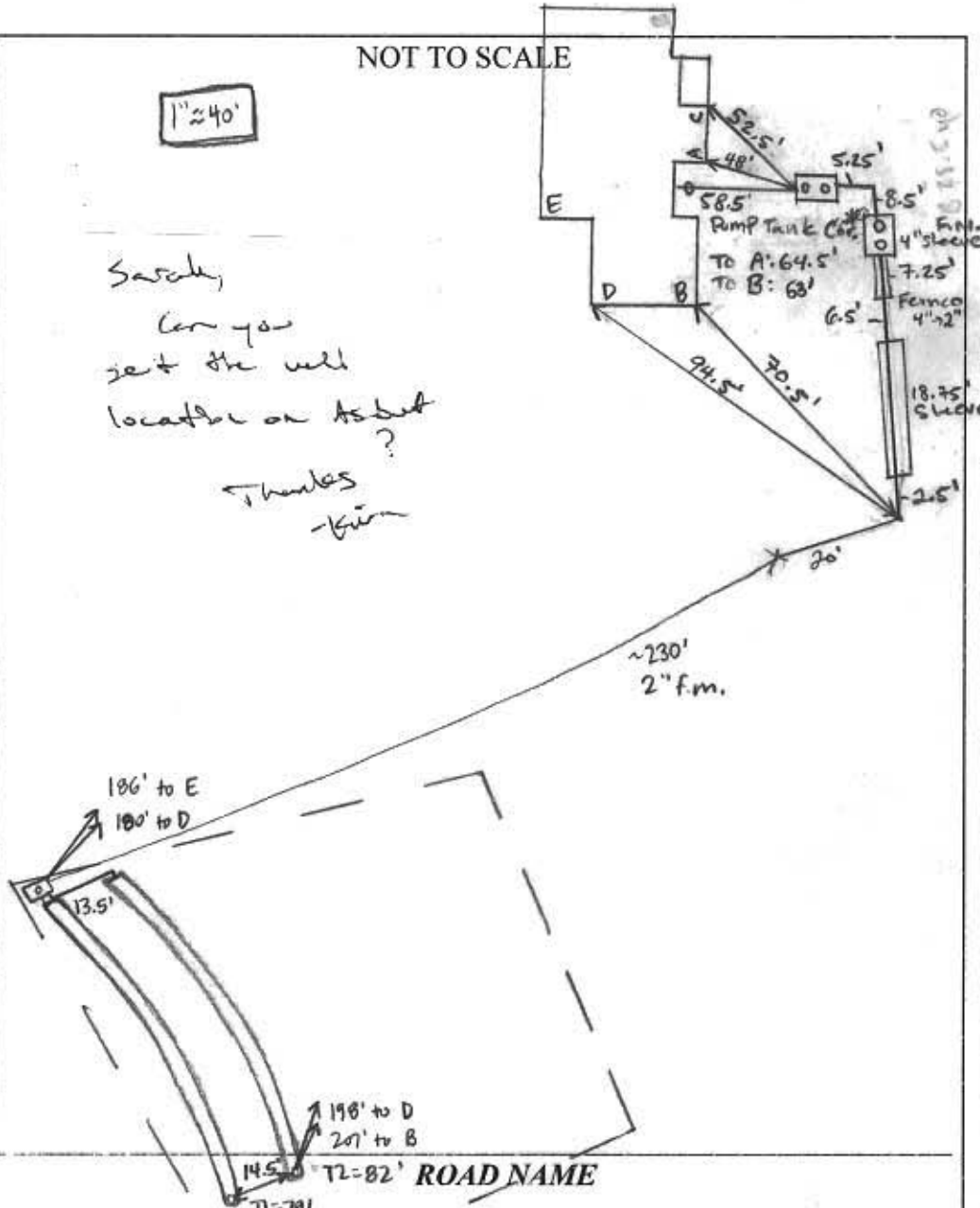
NOT TO SCALE

1" = 40'

Sarah,

Can you  
set the well  
location on Asbut

Thanks  
-Kevin



**TRENCH/DRAINFIELD DATA**

WIDTH	INLET	BOTTOM
3'	3'	5'
NUMBER OF TRENCHES		2
TOTAL LENGTH		161'
ABSORPTION AREA		322' SIDEWALL
DISTRIBUTION BOX LEVEL		YES
DISTRIBUTION BOX BAFFLE		ELBOW
DISTRIBUTION BOX PORT		YES

**SEPTIC TANK DATA**

SEPTIC TANK I LEVEL	
MANUFACTURER	Babylon
CAPACITY	1500 GAL
SEAM LOC	TOP
TANK LID DEPTH	2.5'
BAFFLES	Inlet/outlet
BAFFLE FILTER	NO
MANHOLE LOC	Front/Back
6" PORT LOC	NONE
WATERTIGHT TEST	-
SLOTTED	yes
DATE ON LID	11-20-17

PUMP/SEPTIC TANK LEVEL	
MANUFACTURER	Babylon
CAPACITY	1500 GAL
SEAM LOC	TOP
TANK LID DEPTH	3'
BAFFLES	Inlet
BAFFLE FILTER	NO
MANHOLE LOC	Front/Back
6" PORT LOC	-
WATERTIGHT TEST	-
SLOTTED	-
DATE ON LID	10-23-17

**PRE-CONSTRUCTION:**

12/19/17 Met Freedom - builder on site for layout. SDA corners not staked - laid out 2' 80' trenches on contour in approx. area of SDA. Freedom may not begin trench install until SDA corners are staked and HCHD verifies. OK to set tanks - spot elevations at house + sewer line coming out under footer should make fall to tank w/ 2' cover on tanks. (SC)

INSTALLATION: 12/27/17 - Inflow line + SHC installed. Pump chamber installed w/ outlet leading. Contractor will add 1' riser pieces to bring above grade (A) 12/29/17 TI complete + left open at ends for inspection. Freedom adding stone above pipe to T2. 3' wide, 2.5' to stone. Dbox installed + connected to f.m. Need pump + alarm rest. (SC) 2/16/18 Adequate fluids observed up by D. box on activation of Pump. Alarm works. Sewer circuit labeled (A) 2/20/18 Builder confirms Alarm is on Separate GCFI Circuit (A)

FINAL INSPECTOR

DATE OF APPROVAL

02/20/2018

## Cabahug, Joseph

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**From:** Kenneth Knode <KNode@carusohomes.com>  
**Sent:** Tuesday, February 20, 2018 10:35 AM  
**To:** Cabahug, Joseph  
**Cc:** Robert Oliff  
**Subject:** Folly quarter 12934

This is project manager for the site, Ken Knode and I've confirmed with the electrical contractor, Summet electric, that the septic pump is on a dedicated circuit, marked in panel box. The septic alarm is on a separate GFI protected circuit. Any questions please contact me at 301 832-5266. Ken Knode

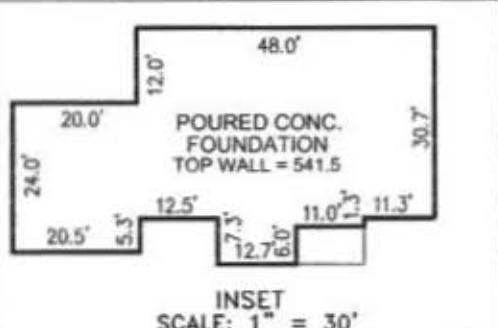
Sent from my iPhone

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8/30/17  
 Wall check Not Appraised.  
 Need well to be drilled  
 and ex. well to be sealed  
 - site Contractor  
 - site Permit  
 - site Permit  
 - site Permit



SITE ADDRESS:  
 12934 FOLLY QUARTER ROAD  
 ELLICOTT CITY, MD 21042



- NOTES:
1. THE LEVEL OF ACCURACY OF APPARENT SETBACK DISTANCES IS ONE TENTH OF A FOOT, MORE OR LESS.
  2. THIS PLAT WAS PREPARED WITHOUT BENEFIT OF A TITLE REPORT.

PREPARED BY:  
**NJR & ASSOCIATES, LLC.**  
 LAND SURVEYING AND PLANNING  
 2770 STATE ROUTE 32  
 WEST FRIENDSHIP, MARYLAND 21794  
 TEL: (240) 508-3200

WALL CHECK SURVEY  
 PARCEL 173  
 TAX MAP 22, GRID 16  
 LIBER 15867, F. 272  
 THIRD ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND  
 SCALE: 1" = 100' DATE: AUGUST 23, 2017

FILE No. 3410

Kristin Greisz <kristin@freedomseptic.com>

8/29/2017 12:20 PM

## FW: Wall Check survey of 12934 Folly Quarter attached

To Bev True <truecontractors@comcast.net>

Here is the Wall Check for the one I called you about today.

Customer: Caruso Homes

Address: 12934 Folly Quarter Rd., Ellicott City, MD 21042

What else do you need for me?

Thank you!

Kristin

**From:** Hank Kodan [mailto:[hkodan@carusohomes.com](mailto:hkodan@carusohomes.com)]

**Sent:** Tuesday, August 29, 2017 11:08 AM

**To:** Kristin Greisz <kristin@freedomseptic.com>

**Subject:** FW: Wall Check survey of 12934 Folly Quarter attached

Kristin,

Per your request for application.

Hank

**CONFIDENTIALITY NOTICE:** This e-mail contains privileged and/or confidential information which is intended only for the use of the Addressee named above. If you are not the intended recipient, or the employee or agent responsible for delivering it to the intended recipient, you are hereby notified that any dissemination or copying of this e-mail, or the taking of any action in reliance on the contents of this information, may be strictly prohibited. If you have received this e-mail in error, please notify us immediately and delete the material. Thank you.

- 3410-WALL-CHECK.pdf (307 KB)



11130 Dovedale Court, Suite 200  
Marriottsville, MD 21104  
Website: www.sillengineering.com

Office: 443-325-5076  
Fax: 410-696-2022  
Email: info@sillengineering.com

Civil Engineering for Land Development

## SILL ENGINEERING GROUP, LLC

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June 5, 2017

**Howard County Health Department**  
**Bureau of Environmental Health**  
8390 Stanford Boulevard  
Columbia, Maryland 21045

Attn: Mr. Hank Oswald

Re: Sejmenovic Property  
12934 Folly Quarter Road

Dear Mr. Oswald:

Please find below the Septic System Design for this project.

### Septic System Trench Design

- Initial System and Replacements:
  - Application Rate: 0.8
  - Effective Area Beginning Depth: 3.0' (Replacement area is 3.0')
  - Bottom Maximum Depth: 5.0'
- Design Flow:
  - 4 Bedrooms at 150 gpd
  - 4x150 gpd = 600 gpd
- Square Footage of Drain Field Required:
  - Design Flow (600 gpd) / Application Rate (0.8) = 750 sf

- Sidewall Reduction Credit:
  - Trench Width (W) = 3'
  - Trench Effective Depth (D) = 2.0'

$$\frac{W+2}{W+1+2D} \times 100 = \frac{3+2}{3+1+2(2)} \times 100 = \frac{5}{8} \times 100 = 62.5\%$$

- Linear Length of Trench Required:
  - Drain Field Square Footage (750) x Sidewall Reduction Credit (62.5%) / Trench Width (3') = 156.25'
- Linear Length of Trench Provided = 160'
  - Two trenches 80 lf each

## Dose Tank Design

- Design Flow: 600 GPD
- Diameter of Force Main: 2.0"
- Material: Schedule 40 PVC
- Dose Calculations:
  - Design Flow: 600 gpd
  - Length of force main:
    - 2.0" force main = 274.50'
  - Volume of force main:
    - 274.50' x 17.40 gallons per 100' = 47.76 gallons
  - Minimum dose is the greater of:
    - Volume of force main: 47.76 gallons
    - Or
    - 1/6<sup>th</sup> the design flow: 1/6 x 600 gallons = 100.0 gallons

Use 100 gallons for dose

- Pump Design:
  - Pump flow required: 25 gpm
  - Dose amount: 100 gallons
  - Pump run time: 4.0 minutes
  - Static head (see profile for detail): 23.56'' use 23.60'

- Friction head calculation (Table 4.3):

Pipe size	2.0"
1/4 Bend (90°)	-
1/8 Bend (45°)	4 @ 4.0' = 16.0'
1/16 Bend (22.5°)	4 @ 2.0' = 8.0'
1/32 Bend (11.25°)	-
Gate Valve	1 @ 1.3' = 1.3'
Standard Tee	-
Run Tee	-
Cross	-
Reducer	-
Couplings	14 @ 2.0' = 28.0'
Quick Connect / Disconnect	1 @ 1.35' = 1.35'
<b>Total Equivalent Length of pipe</b>	<b>54.65'</b>

- Flow at 2.0" pipe = 25 gpm
  - Friction loss per 100' (Table 4.4) of 2.0" schedule 40 plastic pipe: 1.10
  - Total equivalent length of 2.0" Force Main and appurtenances =
    - 274.50' + 54.65' = 329.15'
  - Friction loss in 2.0" pipe = 329.15'/100 x 1.10 = 3.62'
- Total Friction Head = 3.62'
- Total Dynamic Head = Static head + Distal Head + Friction head
  - 23.6' + 2.0' + 3.62' = 29.22' use 29.3'

- Pump Chamber Design:
  - For pump tank dimensions and detail, see plans.
  - Pump chamber elevations:
    - Proposed grade at top of tank (at inlet): 535.20
    - Top of pump tank: 533.48
    - Pump chamber invert in: 532.40
    - High Water Alarm: 529.95
    - Pump On: 529.45
    - Pump Off: 529.15
    - Bottom inside slab of tank: 527.32
  - Pump Chamber volumes:
    - Invert In to Pump On: 135.15 cf or 1,011.02 gallons
    - Pump On to Pump Off: 13.75 cf or 102.80 gallons
    - Invert In to High Water Alarm: 112.25 cf or 839.66 gallons
  - Design based on:
    - C.R Semler, Inc. 1500 Gallon Pump Tank
    - Goulds WE05H series pump or equivalent

Thank you for your consideration of this Pump Design. Should you have any questions or comments regarding this matter, please do not hesitate to contact this office.

Sincerely,  
**Sill Engineering Group, LLC**

*Rossmery Alva*

**Rossmery Alva**



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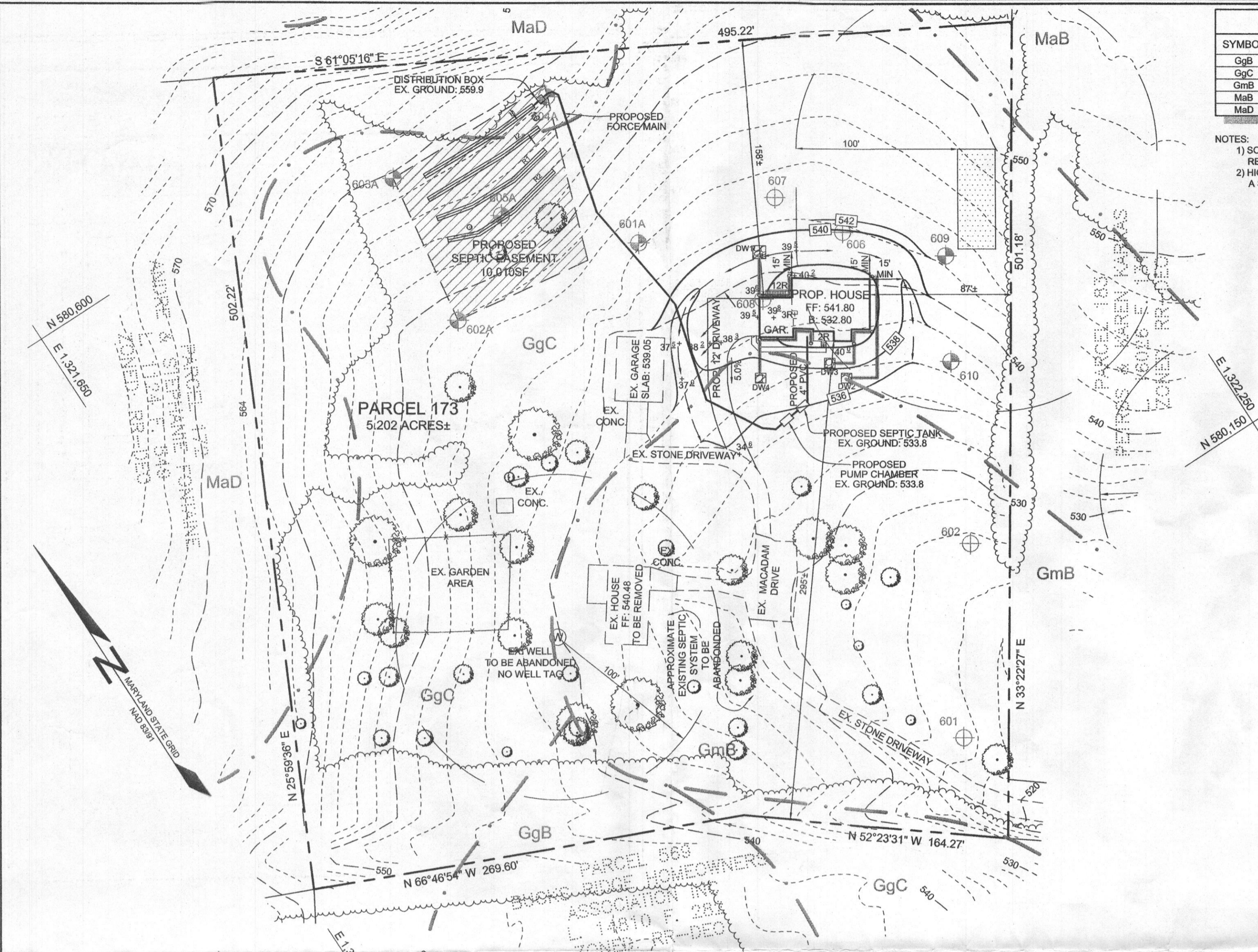
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**Sill Engineering Group, LLC**

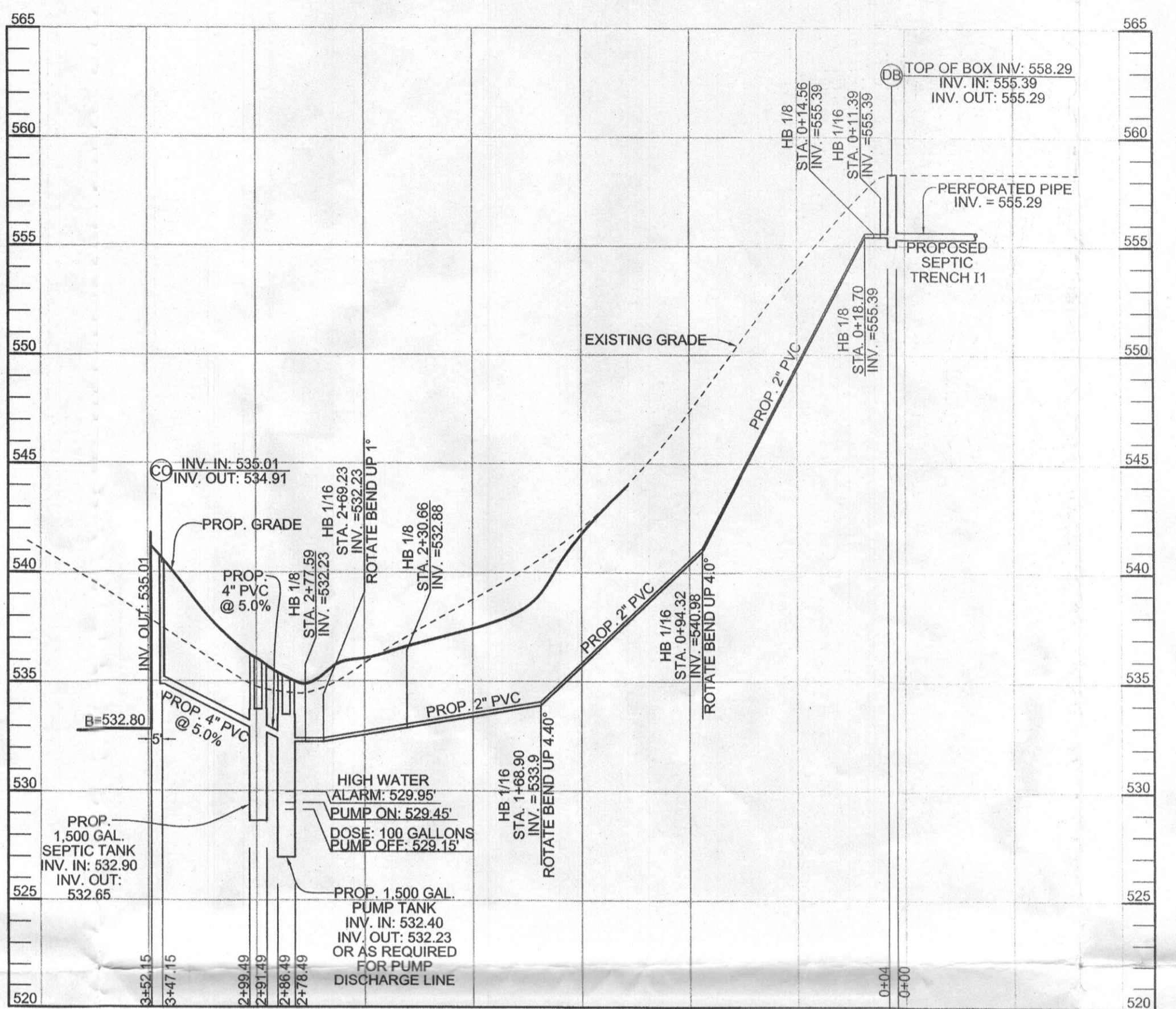
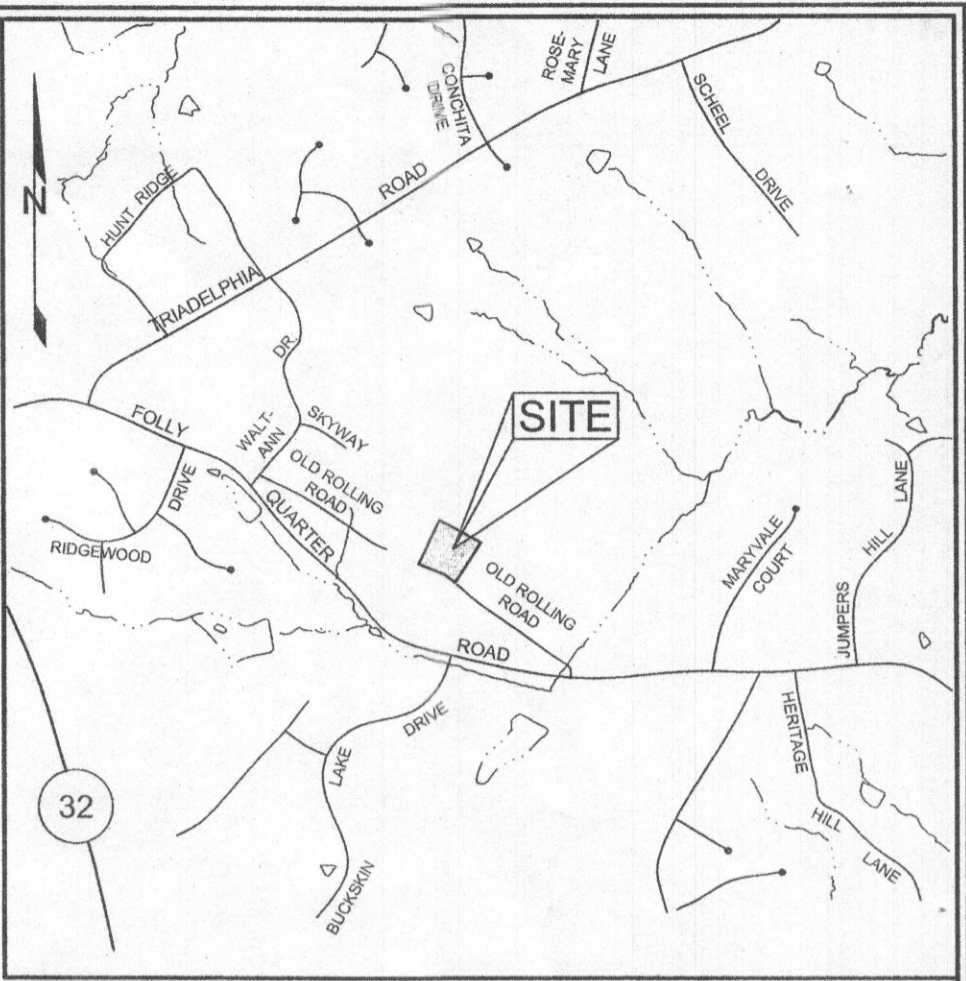
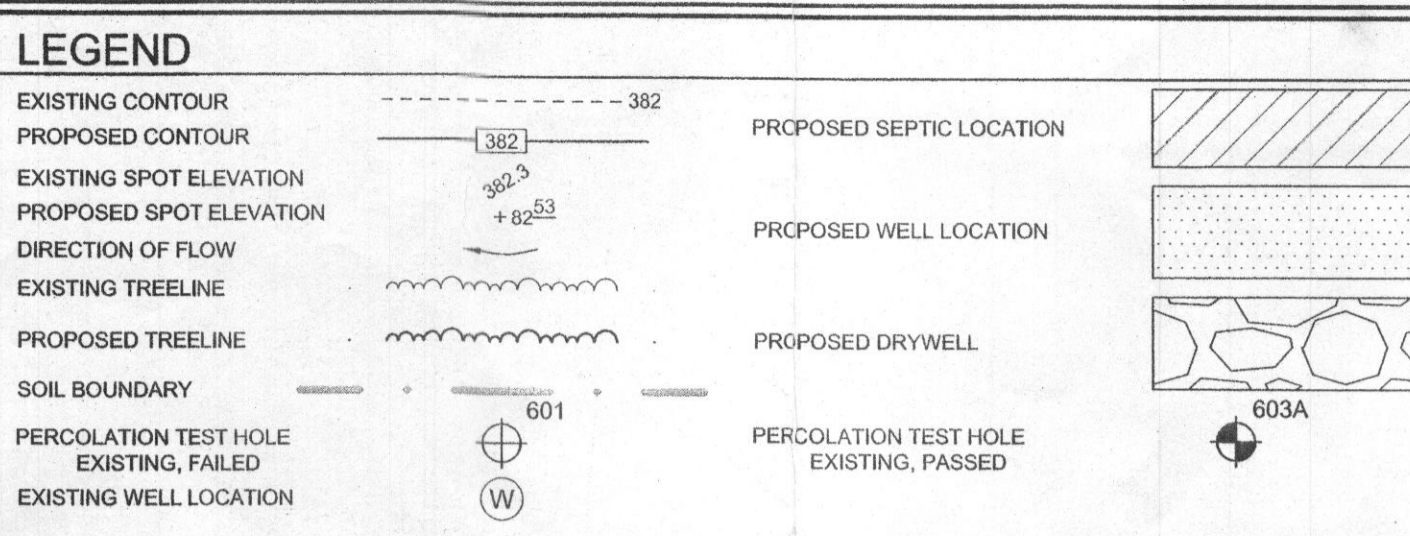
*Rossmery Alva*  
**Rossmery Alva**



### SOILS LEGEND

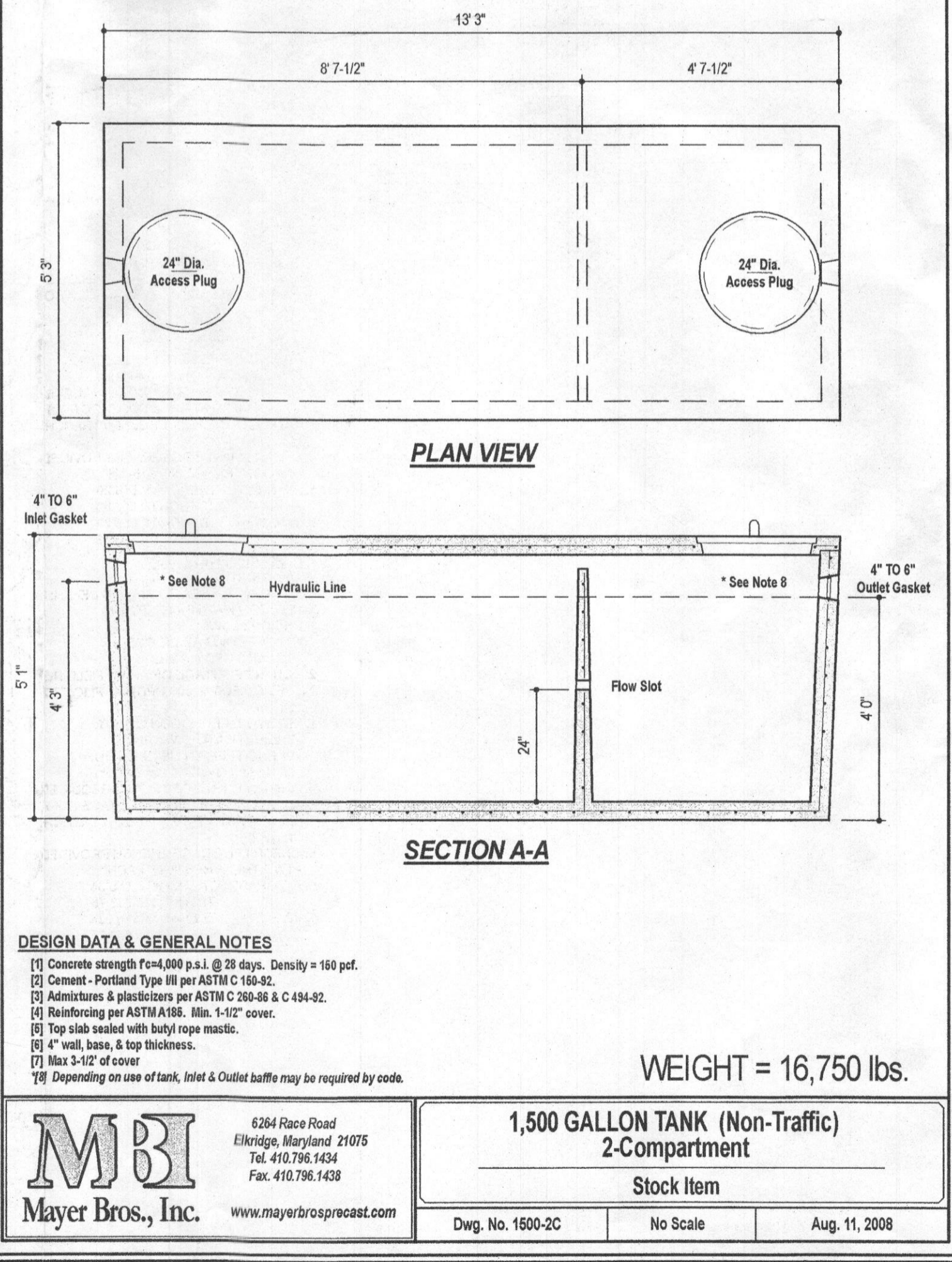
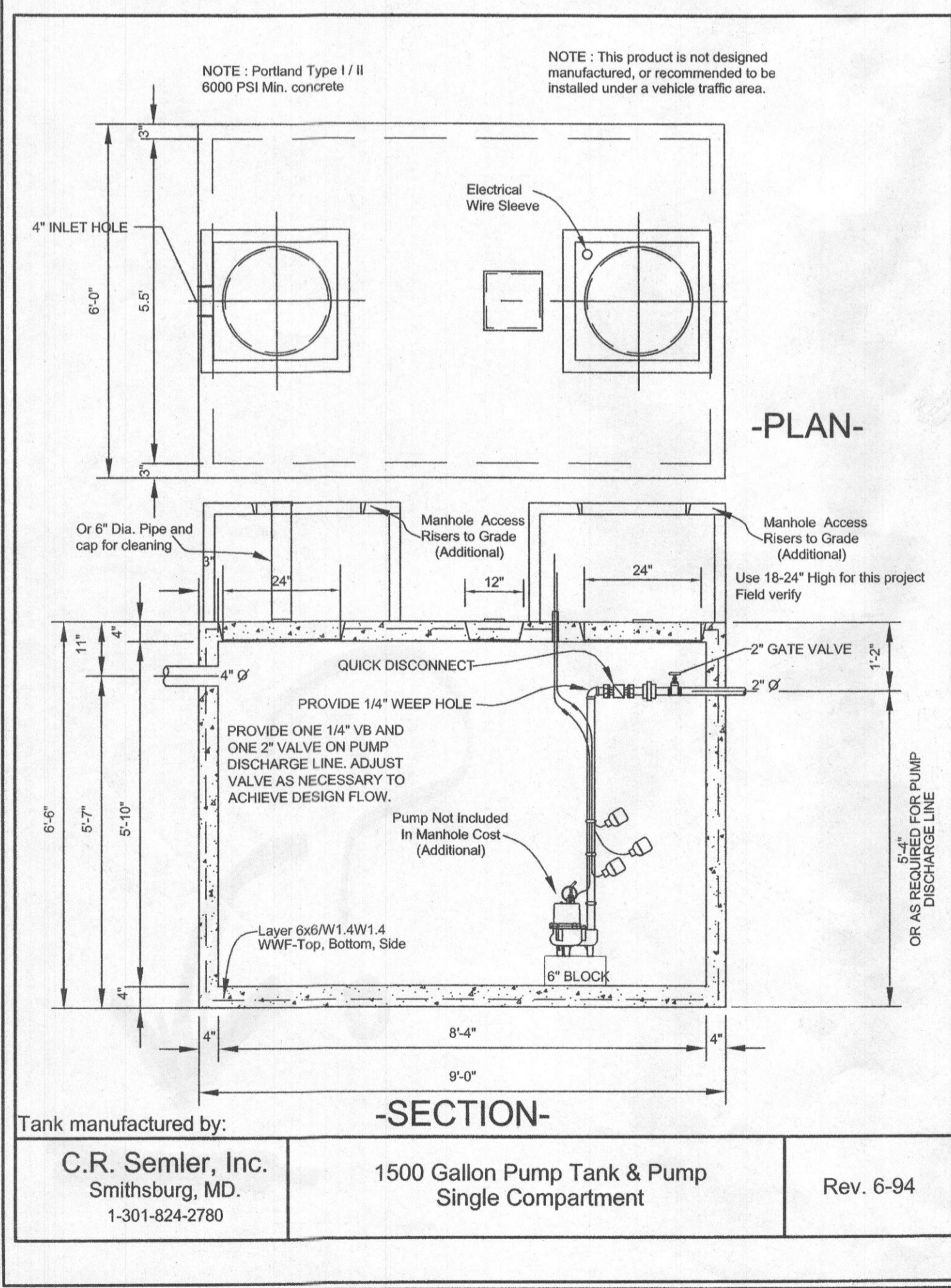
SYMBOL	NAME / DESCRIPTION	GROUP	'K' FACTOR
GgB	GLENELG LOAM, 3 TO 8 PERCENT SLOPES	B	0.28
GgC	GLENELG LOAM, 8 TO 15 PERCENT SLOPES	B	0.28
GmB	GLENVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES	C	0.43
MaB	MANOR LOAM, 3 TO 8 PERCENT SLOPES	B	0.28
MaD	MANOR LOAM, 15 TO 25 PERCENT SLOPES	B	0.28

NOTES:  
 1) SOIL INFORMATION HAS BEEN TAKEN FROM THE UNITED STATES DEPARTMENT OF AGRICULTURE; NATURAL RESOURCES CONSERVATION SERVICE; WEB SOIL SURVEY  
 2) HIGHLY ERODIBLE SOILS ARE THOSE SOILS WITH A SLOPE GREATER THAN 15 PERCENT OR THOSE SOILS WITH A SOIL ERODIBILITY FACTOR 'K' GREATER THAN 0.35 AND WITH A SLOPE GREATER THAN 5 PERCENT.



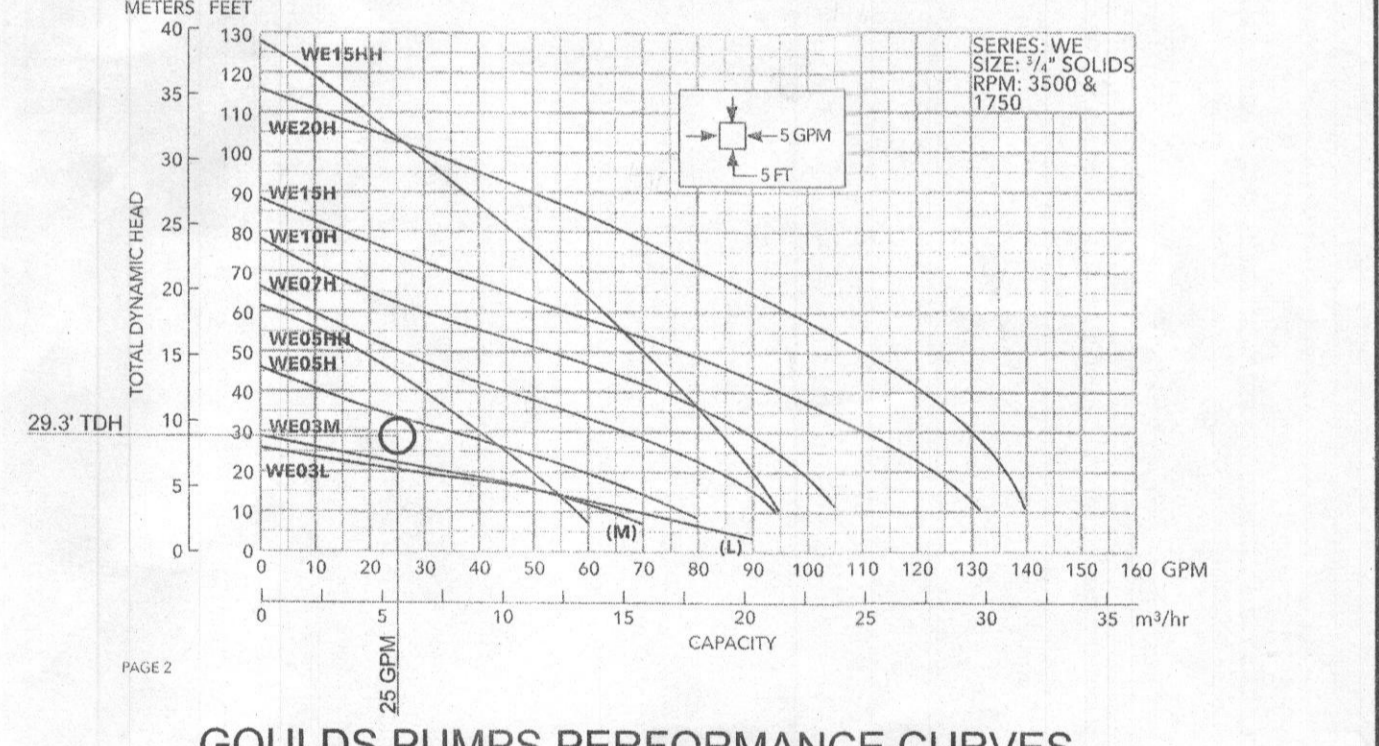
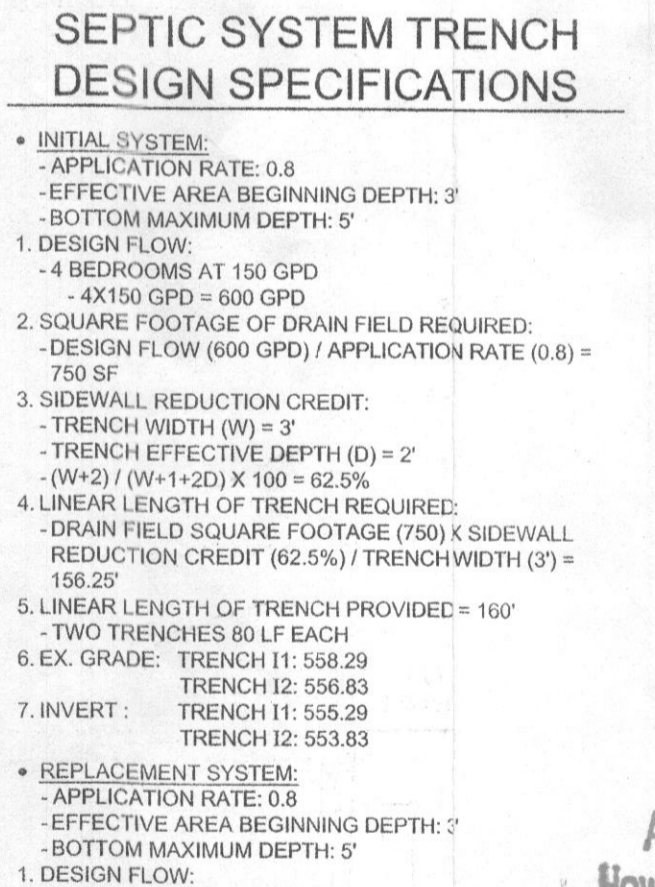
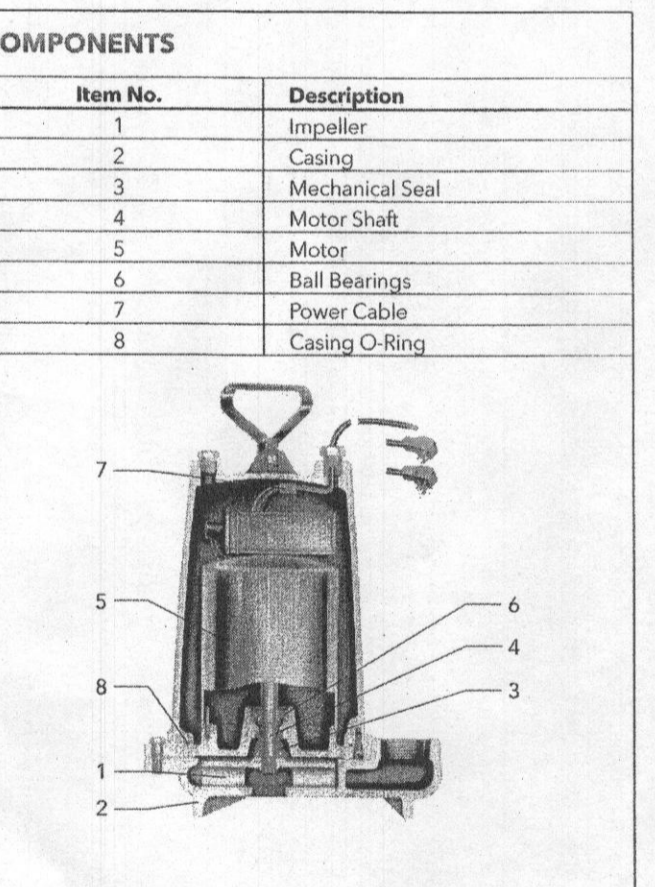
- ### GENERAL NOTES
- SUBJECT PROPERTY ZONED RR-DEO PER 10/08/2013 COMPREHENSIVE ZONING PLAN.
  - TOTAL AREA OF PROPERTY = 5.202 AC ±
  - PRIVATE WATER AND PRIVATE SEWER WILL BE USED WITHIN THIS SITE.
  - THIS AREA DESIGNATES A PRIVATE SEWAGE EASEMENT OF AT LEAST 10,000 SF AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL (COMAR 26.04.03). IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWERAGE IS AVAILABLE. THESE EASEMENTS SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWERAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWAGE EASEMENT. RECORDATION OF A MODIFIED SEWAGE EASEMENT SHALL NOT BE NECESSARY.
  - REFERENCE: LIBER 15987 FOLIO 272
  - PROPERTY ADDRESS: 12934 FOLLY QUARTER ROAD
  - THE LOTS SHOWN HEREON COMPLY WITH THE MINIMUM OWNERSHIP, WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT.
  - ALL EXISTING WELLS, SEPTIC SYSTEMS AND SEWAGE DISPOSAL EASEMENTS WITHIN 100 FEET OF THE PROPERTY BOUNDARIES AND ALL EXISTING AND PROPOSED WELLS THAT ARE LOCATED WITHIN 200 FEET DOWN GRADIENT OF EXISTING OR PROPOSED SEPTIC SYSTEMS AND SEWAGE DISPOSAL EASEMENTS HAVE BEEN FIELD LOCATED.
  - LIMIT OF DISTURBANCE = 27,327 SF
  - THIS PROJECT IS EXEMPT FROM THE FOREST CONSERVATION ACT SINCE IT IS A SINGLE LOT CLEARING LESS THAN 20,000 SF OF FOREST.
  - ANY SPECIMEN TREE THAT IS REMOVED WILL REQUIRE AN ALTERNATIVE COMPLIANCE PETITION FOR THE REMOVAL OF A SPECIMEN TREE PER SECTION 16.1204 OF THE SUBDIVISION AND ZONING REGULATIONS.
  - APPROVAL OF THIS ECP DOES NOT CONSTITUTE AN APPROVAL OF ANY SUBSEQUENT AND ASSOCIATED SUBDIVISION, SITE DEVELOPMENT PLAN AND/OR PERMITS.
  - APPROVAL OF THIS ECP DOES NOT CONSTITUTE AN APPROVAL OF ANY SUBSEQUENT AND ASSOCIATED SUBDIVISION PLAN/FLAT AND/OR SITE DEVELOPMENT PLAN AND/OR REDLINE REVISION PLAN. REVIEW OF THIS PROJECT FOR COMPLIANCE WITH THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS SHALL OCCUR AT THE SUBDIVISION PLAN/FLAT AND/OR SITE DEVELOPMENT PLAN STAGES AND/OR REDLINE REVISION PROCESS. THE APPLICANT AND CONSULTANT SHOULD EXPECT ADDITIONAL AND MORE DETAILED REVIEW COMMENTS (INCLUDING COMMENTS THAT MAY ALTER THE OVERALL SITE DESIGN) AS THIS PROJECT PROGRESSES THROUGH THE PLAN REVIEW PROCESS.

- ### SEPTIC SYSTEM NOTES
- 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.
  - THE MAXIMUM EARTH COVER OVER THE TANK IS 3 FEET. GREATER EARTH COVER WILL REQUIRE A HEAVY LOAD BEARING TANK.
  - ELECTRICAL WORK FOR THE INSTALLATION MUST BE PERFORMED BY A LICENSED ELECTRICIAN.
  - THE WELL TAG # HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN.
  - 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.
  - WELL LINE MUST BE STAKED PER APPROVED OSDS PLAN PRIOR TO INSTALLATION.
  - PUMP DOSE: 100 GPM, PUMP RUN TIME 4.0 MINUTES.  
TOTAL DYNAMIC HEAD:  
STATIC HEAD + DISTAL HEAD + FRICTION HEAD  
23.8' + 2.1' + 3.82' = 29.72' USE 29.3'
  - PUMP TO BE A GOULD W80H (1/2HP) SERIES PUMP OR EQUIVALENT.



### PERFORMANCE RATINGS (gallons per minute)

Order No.	WE 1500		WE 3500		WE 3500		WE 3500		WE 3500	
	WE	WE	WE	WE	WE	WE	WE	WE	WE	
1	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
4	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
5	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
6	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
7	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
8	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2



Approved Septic System Plan  
 Howard County Health Department  
 Dana Bevard 6-21-17  
 Signature Date

OWNER/DEVELOPER  
 EDIN SEJMIENOVIC  
 12934 FOLLY QUARTER ROAD  
 ELLICOTT CITY, MARYLAND 21042

### ONSITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN

#### SEJMIENOVIC PROPERTY

12934 FOLLY QUARTER ROAD  
 BUILDING PERMIT #: B17002175

TAX MAP 22 GRID 16  
 3RD ELECTION DISTRICT  
 TAX ID# 598279  
 HOWARD COUNTY, MARYLAND

PARCEL 173

DESIGN BY: PS  
 DRAWN BY: RA  
 CHECKED BY: PS  
 SCALE: AS SHOWN  
 DATE: JUNE 7, 2017  
 PROJECT #: 15-051  
 SHEET #: 1 of 1

STATE OF MARYLAND  
 PROFESSIONAL ENGINEER  
 No. 32026

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