

**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: 12/12/17 **ONSITE SEWAGE DISPOSAL SYSTEM** P 562355A

APPROVAL DATE: 3/6/18 (SEC) **PERMIT: CONSTRUCTION** A \_\_\_\_\_

PROPERTY ADDRESS: 16463 Frederick Road

SUBDIVISION: Stanley Miller Property LOT: 12 TAX ID: \_\_\_\_\_

CONTRACTOR: Freedom Septic EMAIL: kristin@freedomseptic.com

CONTRACTOR ADDRESS: 2809 Liberty Road, Sykesville, MD 21784 PHONE: 410-795-2947

PROPERTY OWNER: Sheree Stedding EMAIL: shereestedding@yahoo.com

OWNER ADDRESS: 3140 Celina Lane, Melbourne, FL 32934 PHONE: 410-596-4482

SEPTIC TANK SIZE (GALLONS): 2000 TANK MANUFACTURER: Mayor Bros Inc.

PUMP MODEL: \_\_\_\_\_ PUMP SIZE \_\_\_\_\_ PUMP TANK CAPACITY: \_\_\_\_\_

DISTRIBUTION SYSTEM:  GRAVITY  PRESSURE DOSED BEDROOMS: 6 APPLICATION RATE: 0.8

TRENCHES:	LINEAR FEET REQUIRED: <u>170</u>	INLET DEPTH: <u>3</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>6.5</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:		

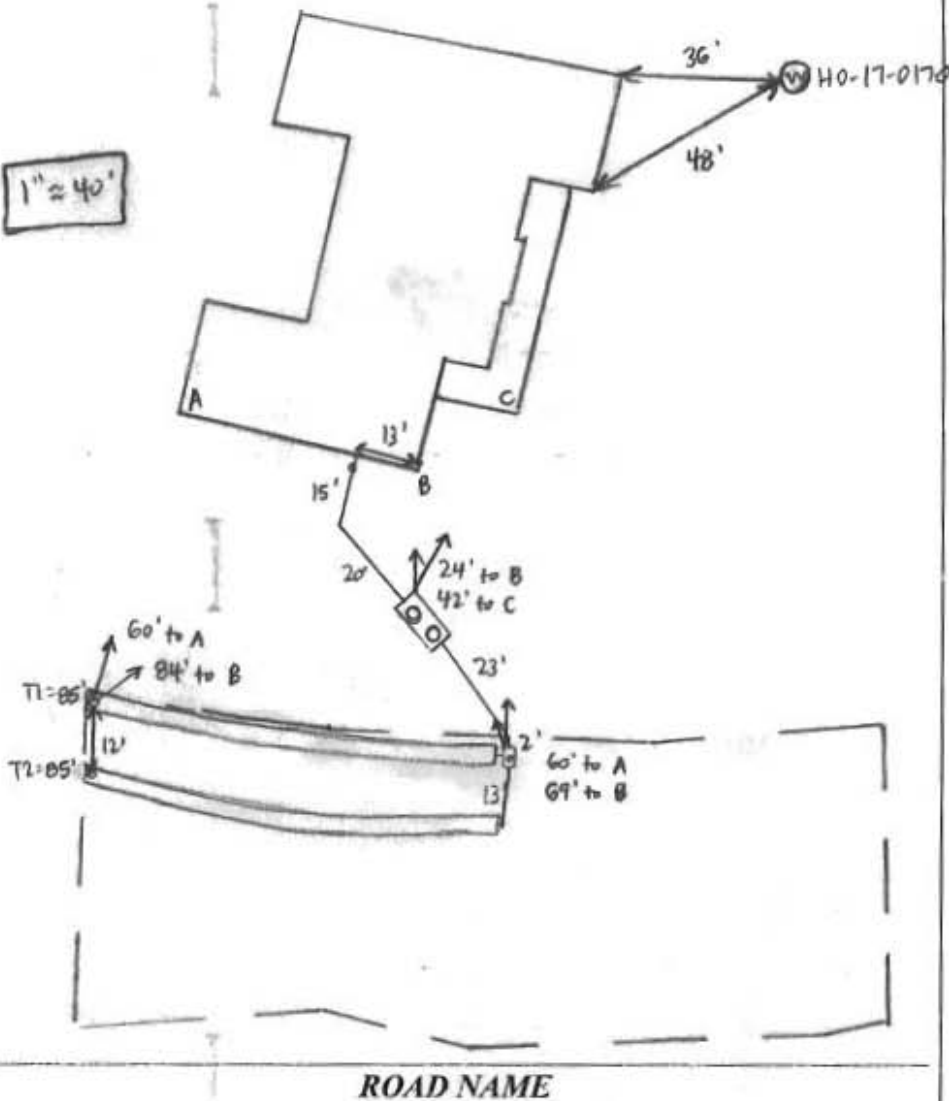
ISSUED BY: Dana Bernard ISSUE DATE: 12/12/17 EXPIRATION DATE: 12/12/18

- 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 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/A
- 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'



**TRENCH/DRAINFIELD DATA**

WIDTH	INLET	BOTTOM
3'	3'	6.5'
NUMBER OF TRENCHES		2
TOTAL LENGTH		170'
ABSORPTION AREA		510' + SIDEWALL
DISTRIBUTION BOX LEVEL		YES
DISTRIBUTION BOX BAFFLE		YES
DISTRIBUTION BOX PORT		YES

**SEPTIC TANK DATA**

SEPTIC TANK I LEVEL	YES
MANUFACTURER	BABYLON
CAPACITY	2000 GAL
SEAM LOC	TOP
TANK LID DEPTH	1.5'
BAFFLES	YES
BAFFLE FILTER	NO
MANHOLE LOC	FRONT + REAR
6" PORT LOC	NONE
WATERTIGHT TEST	NO
SLOTTED	YES
DATE ON LID	1-29-18

**PUMP/SEPTIC TANK LEVEL**

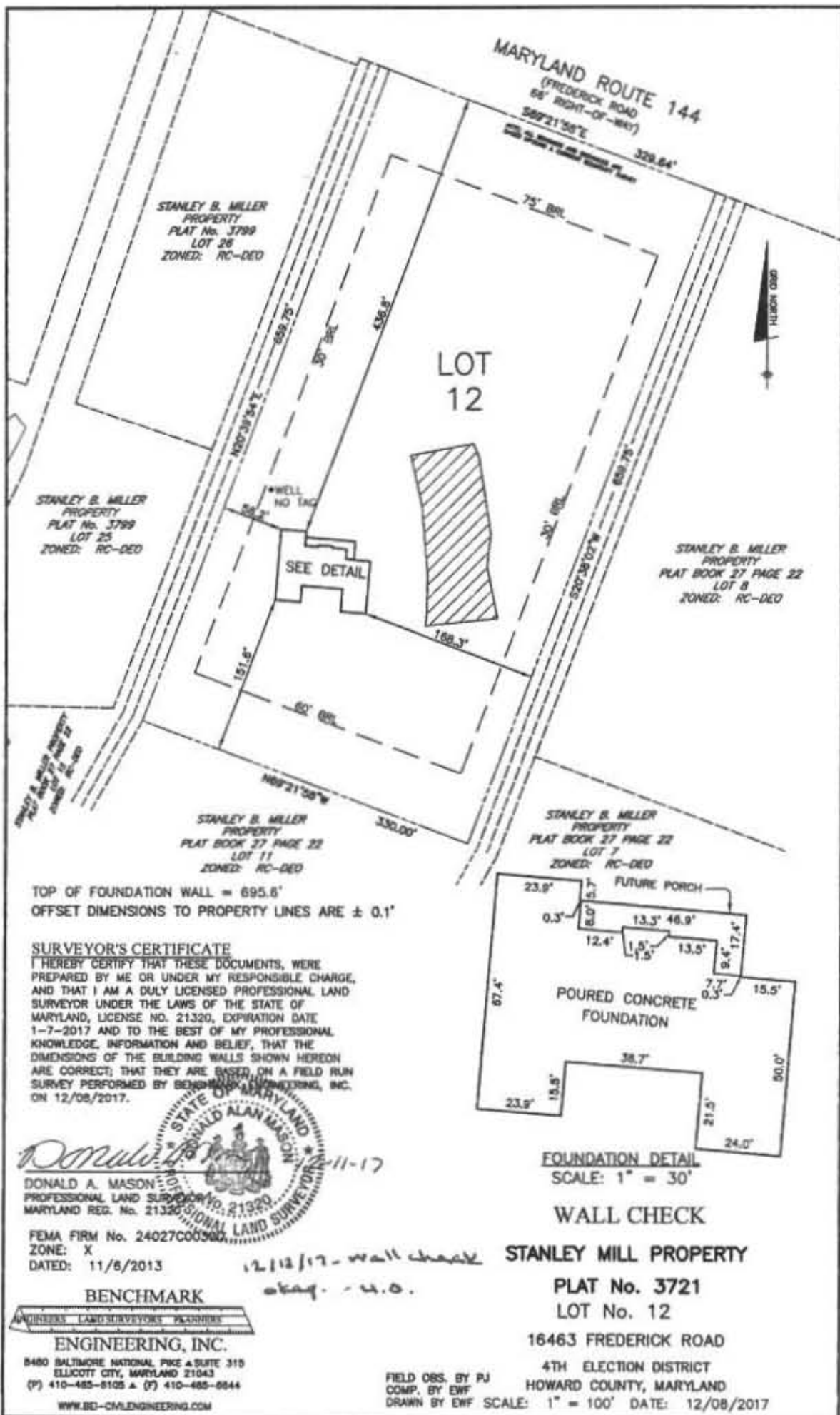
MANUFACTURER	
CAPACITY	GAL
SEAM LOC	
TANK LID DEPTH	
BAFFLES	
BAFFLE FILTER	
MANHOLE LOC	
6" PORT LOC	
WATERTIGHT TEST	
SLOTTED	
DATE ON LID	

**PRE-CONSTRUCTION:**

3/2/18 Met Freedom on site for layout. SDA stakes present. Shot contour + laid out 2 x 85' trenches. D-box to go in middle of upper SDA boundary. (SC)

**INSTALLATION:** 3/5/18 Housse connection made. Tank + D-box set and pipe laid between Freedom digging + adding stone to T2; 3' wide, 2.5' to stone, 6.5' bottom. Using laser to check depths. (SC) 3/6/18 T1 complete + left open for inspection. 3' wide, 2.5' to stone, leveled speed levelers in D-box. T1 outlet pipe in D-box leaking connection. Freedom patched w/ hydraulic cement. [Corrective action + completed.] (SC)

FINAL INSPECTOR Sarah Collins DATE OF APPROVAL 3/6/18



STANLEY B. MILLER  
PROPERTY  
PLAT No. 3789  
LOT 26  
ZONED: RC-DEO

STANLEY B. MILLER  
PROPERTY  
PLAT No. 3789  
LOT 25  
ZONED: RC-DEO

STANLEY B. MILLER  
PROPERTY  
PLAT BOOK 27 PAGE 22  
LOT 8  
ZONED: RC-DEO

STANLEY B. MILLER  
PROPERTY  
PLAT BOOK 27 PAGE 22  
LOT 11  
ZONED: RC-DEO

STANLEY B. MILLER  
PROPERTY  
PLAT BOOK 27 PAGE 22  
LOT 7  
ZONED: RC-DEO

TOP OF FOUNDATION WALL = 695.6'  
OFFSET DIMENSIONS TO PROPERTY LINES ARE ± 0.1'

**SURVEYOR'S CERTIFICATE**

I HEREBY CERTIFY THAT THESE DOCUMENTS, WERE PREPARED BY ME OR UNDER MY RESPONSIBLE CHARGE, AND THAT I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21320, EXPIRATION DATE 1-7-2017 AND TO THE BEST OF MY PROFESSIONAL KNOWLEDGE, INFORMATION AND BELIEF, THAT THE DIMENSIONS OF THE BUILDING WALLS SHOWN HEREON ARE CORRECT; THAT THEY ARE BASED ON A FIELD RUN SURVEY PERFORMED BY BENCHMARK ENGINEERING, INC. ON 12/08/2017.

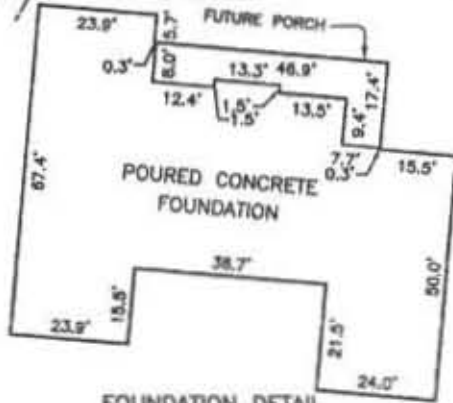


DONALD A. MASON  
PROFESSIONAL LAND SURVEYOR  
MARYLAND REG. No. 21320

FEMA FIRM No. 24027C00380  
ZONE: X  
DATED: 11/8/2013

**BENCHMARK**

BENCHMARK ENGINEERING, INC.  
4800 BALTIMORE NATIONAL PIKE & SUITE 310  
ELLCOTT CITY, MARYLAND 21043  
(P) 410-485-8105 & (F) 410-485-8844  
WWW.BE-CMENGINEERING.COM



FOUNDATION DETAIL  
SCALE: 1" = 30'

**WALL CHECK**

**STANLEY MILL PROPERTY**

PLAT No. 3721  
LOT No. 12

16463 FREDERICK ROAD

4TH ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

FIELD OBS. BY PJ  
COMP. BY EWF  
DRAWN BY EWF  
SCALE: 1" = 100' DATE: 12/08/2017

12/12/17 - wall check  
okay - u.o.

REVISÉ  
 Date: 3-7-18  
 Comments: Change tank from above ground to underground. Same location

MARYLAND ROUTE 144  
 (FREDERICK ROAD  
 66' RIGHT-OF-WAY)  
 S69°21'58"E 329.64'

STANLEY B. MILLER  
 PROPERTY  
 PLAT No. 3799  
 LOT 26  
 ZONED: RC-DEO

STANLEY B. MILLER  
 PROPERTY  
 PLAT No. 3799  
 LOT 25  
 ZONED: RC-DEO

LOT 12  
 Approved for UAT/B18000437  
 3/15/18

STANLEY B. MILLER  
 PROPERTY  
 PLAT BOOK 27 PAGE 22  
 LOT 8  
 ZONED: RC-DEO

500 gal  
 Under ground  
 Propane tank

STANLEY B. MILLER  
 PROPERTY  
 PLAT BOOK 27 PAGE 22  
 LOT 11  
 ZONED: RC-DEO

STANLEY B. MILLER  
 PROPERTY  
 PLAT BOOK 27 PAGE 22  
 LOT 7  
 ZONED: RC-DEO

TOP OF FOUNDATION WALL = 695.6'  
 OFFSET DIMENSIONS TO PROPERTY LINES ARE ± 0.1'

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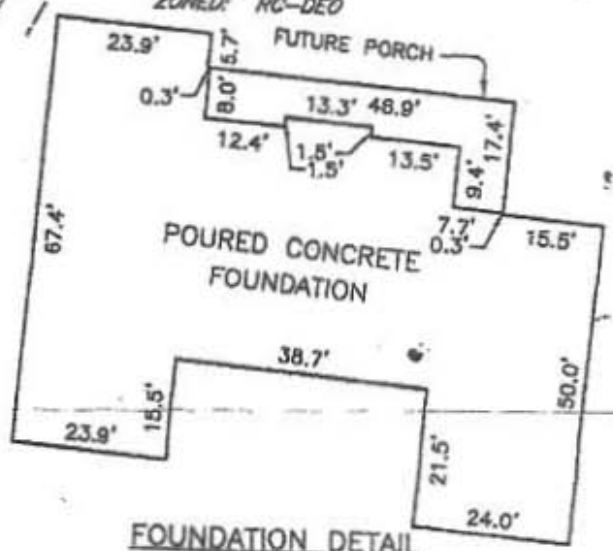
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Donald A. Mason  
 DONALD A. MASON  
 PROFESSIONAL LAND SURVEYOR  
 MARYLAND REG. No. 21320  
 FEMA FIRM No. 24027C00300  
 ZONE: X  
 DATED: 11/6/2013

**BENCHMARK**

ENGINEERS LAND SURVEYORS PLANNERS  
**ENGINEERING, INC.**  
 8480 BALTIMORE NATIONAL PIKE & SUITE 315  
 ELLICOTT CITY, MARYLAND 21043  
 (P) 410-485-8105 & (F) 410-485-8644  
 WWW.BE-CIVILENGINEERING.COM



FOUNDATION DETAIL  
 SCALE: 1" = 30'

**WALL CHECK**

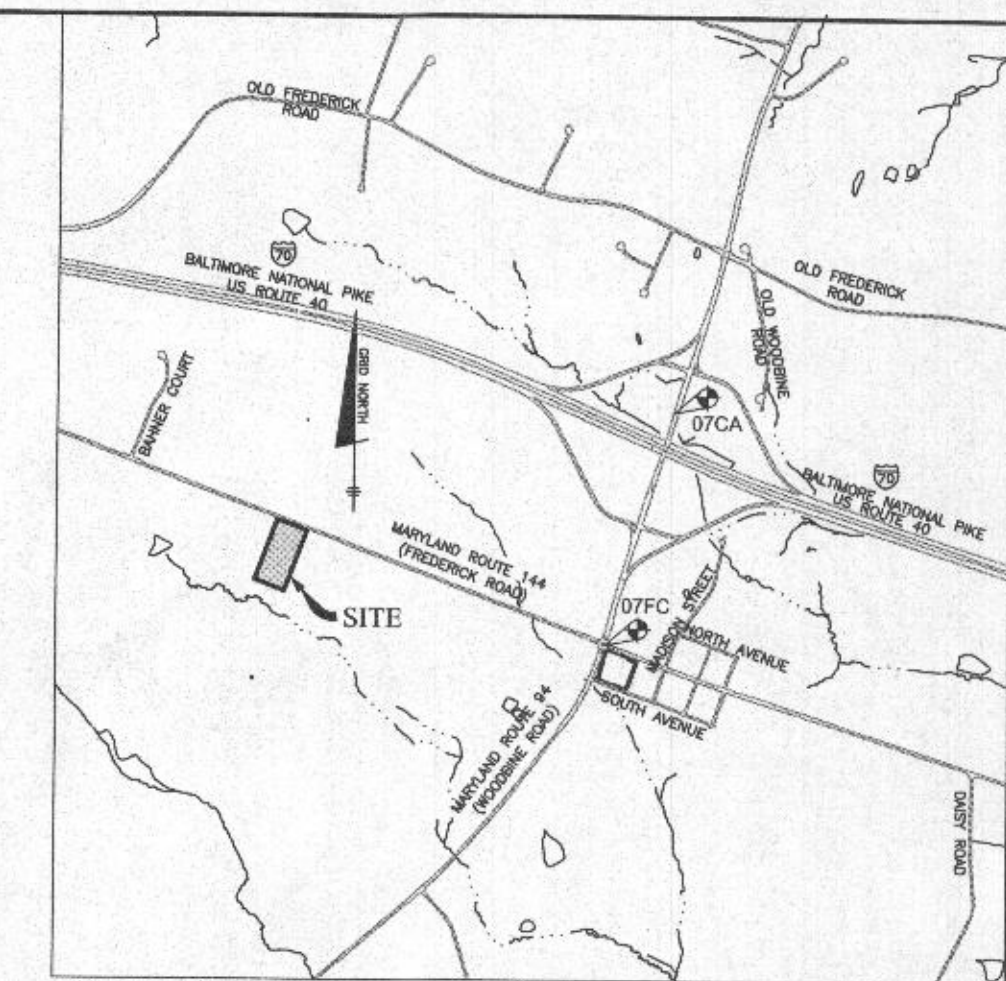
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16463 FREDERICK ROAD  
 4TH ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND

FIELD OBS. BY PJ  
 COMP. BY EWF  
 DRAWN BY EWF SCALE: 1" = 100' DATE: 12/08/2017

# GENERAL NOTES

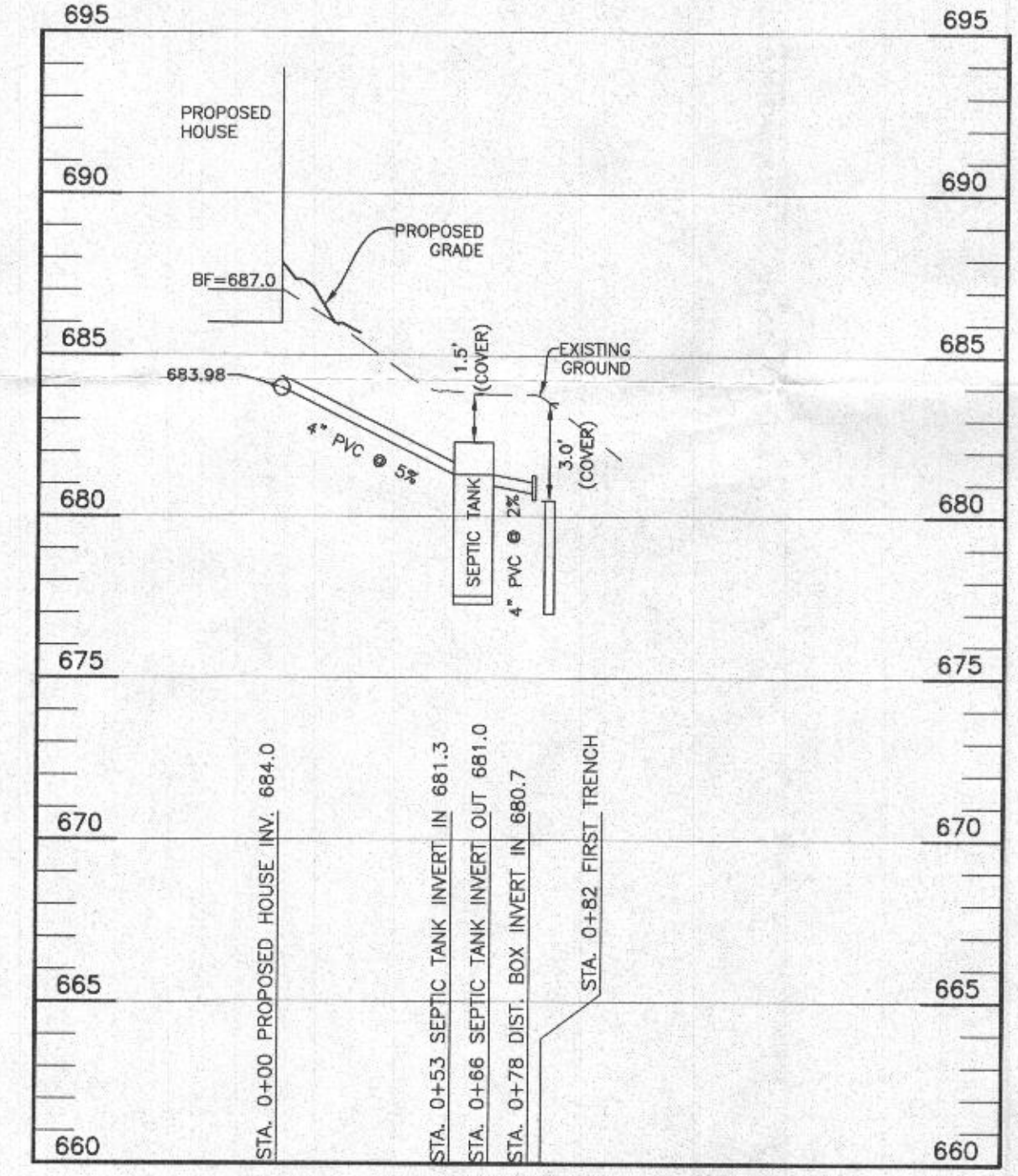
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**VICINITY MAP**  
SCALE: 1" = 2000'

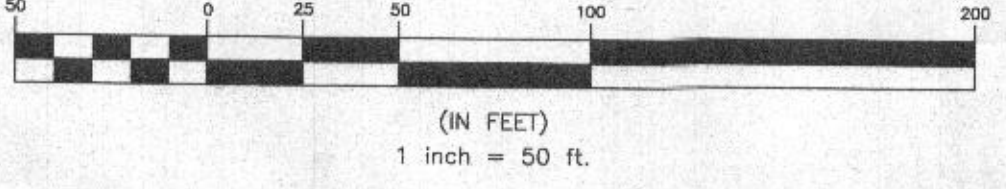
HOWARD COUNTY GEODETIC COORDINATES:

07FC	N 608,315.54
	E 1,291,525.34
	ELEV = 591.37
07CA	N 610,731.35
	E 1,292,224.35
	ELEV = 619.30



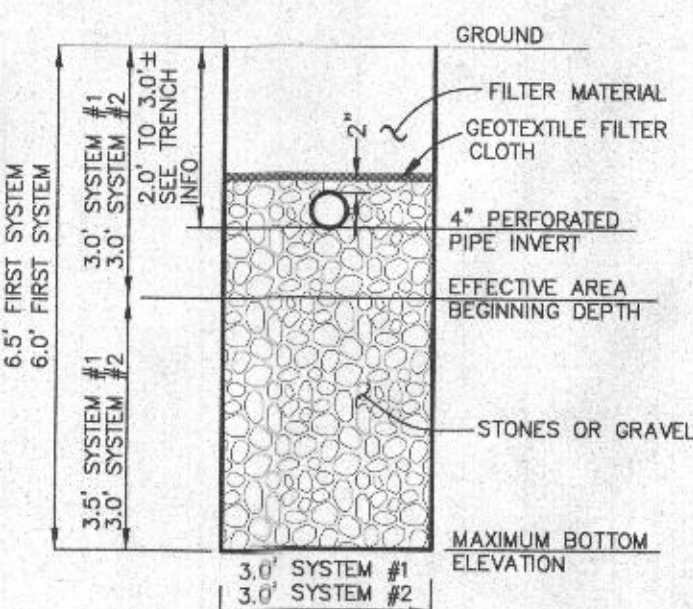
**SEWER PROFILE**  
SCALE: VERTICAL 1"=5', HORIZONTAL 1"=50'

**PLAN**  
SCALE: 1" = 50'

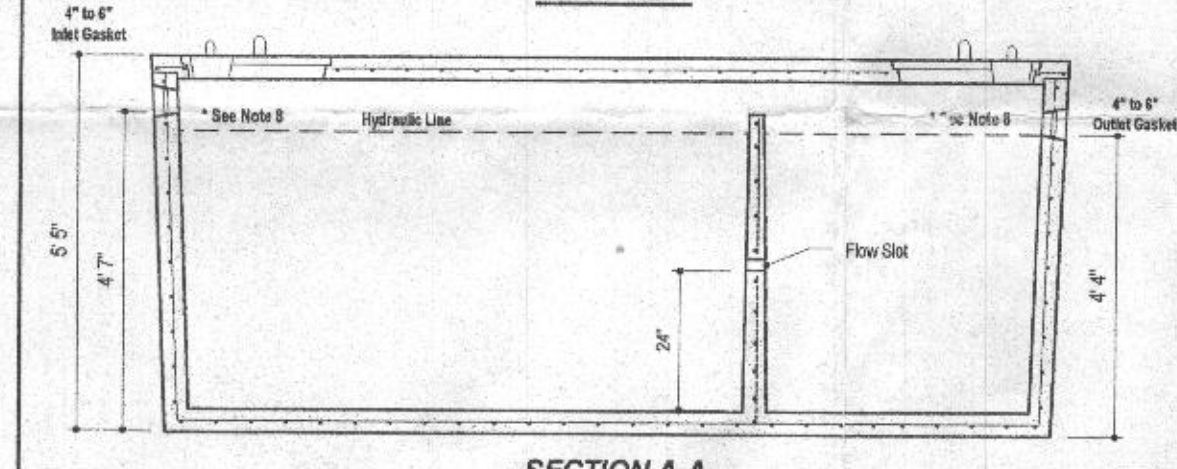
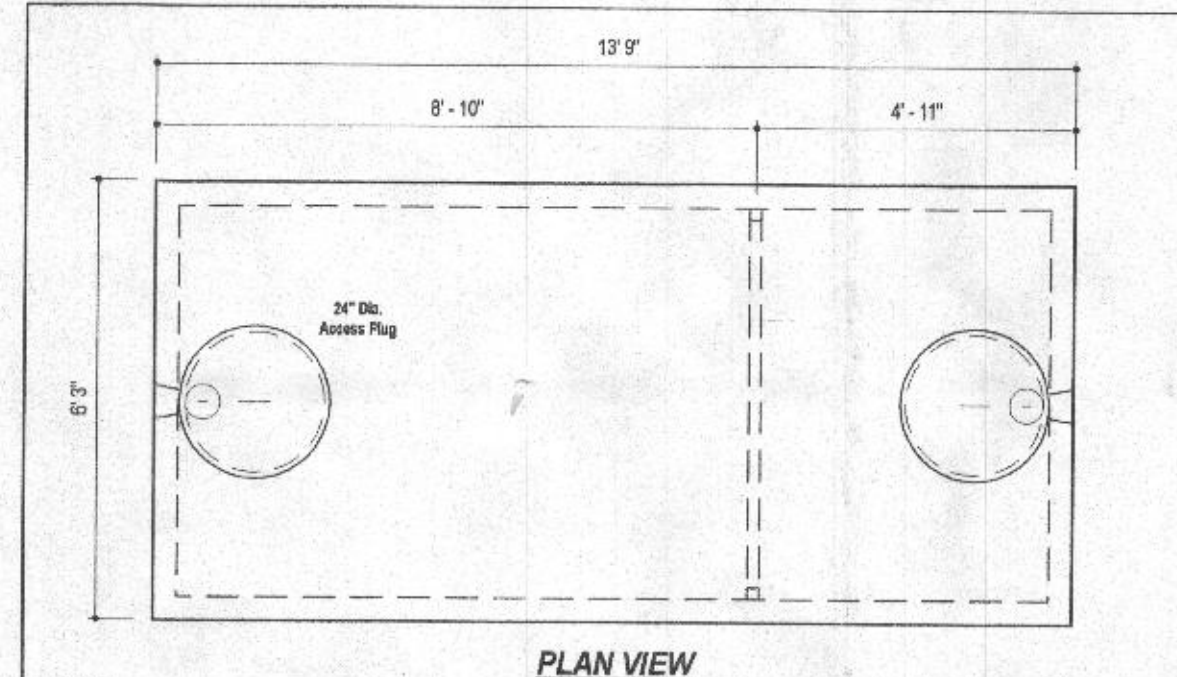


**SEPTIC DATA**

INITIAL SYSTEM	FUTURE FIRST REPAIR
TRENCH T-1-1	TRENCH T-2-1
TRENCH LENGTH 85 LF	TRENCH LENGTH 62 LF
GROUND ELEVATION 682.9	GROUND ELEVATION 682.8
INVERT ELEVATION 679.9	INVERT ELEVATION 679.8
MAX. BOTTOM ELEV. 676.4	MAX. BOTTOM ELEV. 676.8
TRENCH T-1-2	TRENCH T-2-2
TRENCH LENGTH 85 LF	TRENCH LENGTH 62 LF
GROUND ELEVATION 682.0	GROUND ELEVATION 681.8
INVERT ELEVATION 679.0	INVERT ELEVATION 678.8
MAX. BOTTOM ELEV. 675.5	MAX. BOTTOM ELEV. 675.8
TRENCH T-2-3	TRENCH T-2-3
TRENCH LENGTH 62 LF	TRENCH LENGTH 62 LF
GROUND ELEVATION 680.7	GROUND ELEVATION 677.7
INVERT ELEVATION 677.7	INVERT ELEVATION 674.7
MAX. BOTTOM ELEV. 674.7	MAX. BOTTOM ELEV. 674.7



**TYPICAL TRENCH DETAIL**  
NOT TO SCALE



**DESIGN DATA & GENERAL NOTES**

- 1) Consider through Fall 1000 gpd @ 24 hrs. Density = 68 lb/yd<sup>3</sup>.
- 2) Cement - Portland Type III per ASTM C 150-02.
- 3) Aggregate - 3/4 inch maximum size per ASTM C 302-02.
- 4) Reinforcing per ASTM A 618, Min. 1-02 cover.
- 5) Top side made with high mass masonry.
- 6) 4" wall, 4" base, 4" top thickness.
- 7) Max. T of cover.
- 8) Depending on use of tank, inlet & outlet baffles may be required by code.

**M B I**  
Mayer Bros., Inc.  
4304 Race Road  
College Park, Maryland 20745  
Tel: 410.796.1424  
Fax: 410.796.1428  
www.mayerbrosgroup.com

**2,000 GALLON SEPTIC TANK**  
2-Compartment  
Stock Item [Approx. 19,900 lbs]  
Aug 11, 2008

**LEGEND**

EXISTING CONTOURS (685)	490
PROPOSED CONTOURS	378
PROPOSED STRUCTURE	480
	478
WELL BOX	
SEWAGE DISPOSAL AREA	
PERCOLATION TEST PASSED (5/5/2015)	○
EXISTING WELL LOCATION	⊕

THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF ENGINEERING/CONSTRUCTION INSPECTION DIVISION AT 410-313-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF ANY WORK.

THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE.

**INITIAL SYSTEM**

Number of Bedrooms	6
Application Rate	0.8 gpd/sf
Effective Area Beginning Depth	3 ft
Bottom Max Depth	6.5 ft
Design Flow	900 gpd
Drainage Field square footage	1125 sf
Sidewall reduction credit	0.45454545
Trench width	3
Effective Area Depth	3.5
Linear Length of trench Required	170 lf

**1st REPLACEMENT SYSTEM**

Number of Bedrooms	6
Application Rate	0.8 gpd/sf
Effective Area Beginning Depth	3 ft
Bottom Max Depth	6 ft
Design Flow	900 gpd
Drainage Field square footage	1125 sf
Sidewall reduction credit	0.5
Trench width	3
Effective Area Depth	3
Linear Length of trench Required	188 lf

**BENCHMARK ENGINEERING, INC.**  
ENGINEERS & LAND SURVEYORS & PLANNERS  
8480 BALTIMORE NATIONAL PIKE & SUITE 315 ELLOTT CITY, MARYLAND 21043  
(P) 410-465-6105 (F) 410-465-6644  
WWW.BE-CIVILENGINEERING.COM  
BE000-CIVILENGINEERING.COM

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. 45577. Expiration Date: 06-08-2018

OWNER: SHEREE STEDDING  
3140 CELINA LANE  
MELBOURNE, FLORIDA 32934  
443-974-7636

PROJECT: STANLEY B. MILLER PROPERTY  
LOT 12

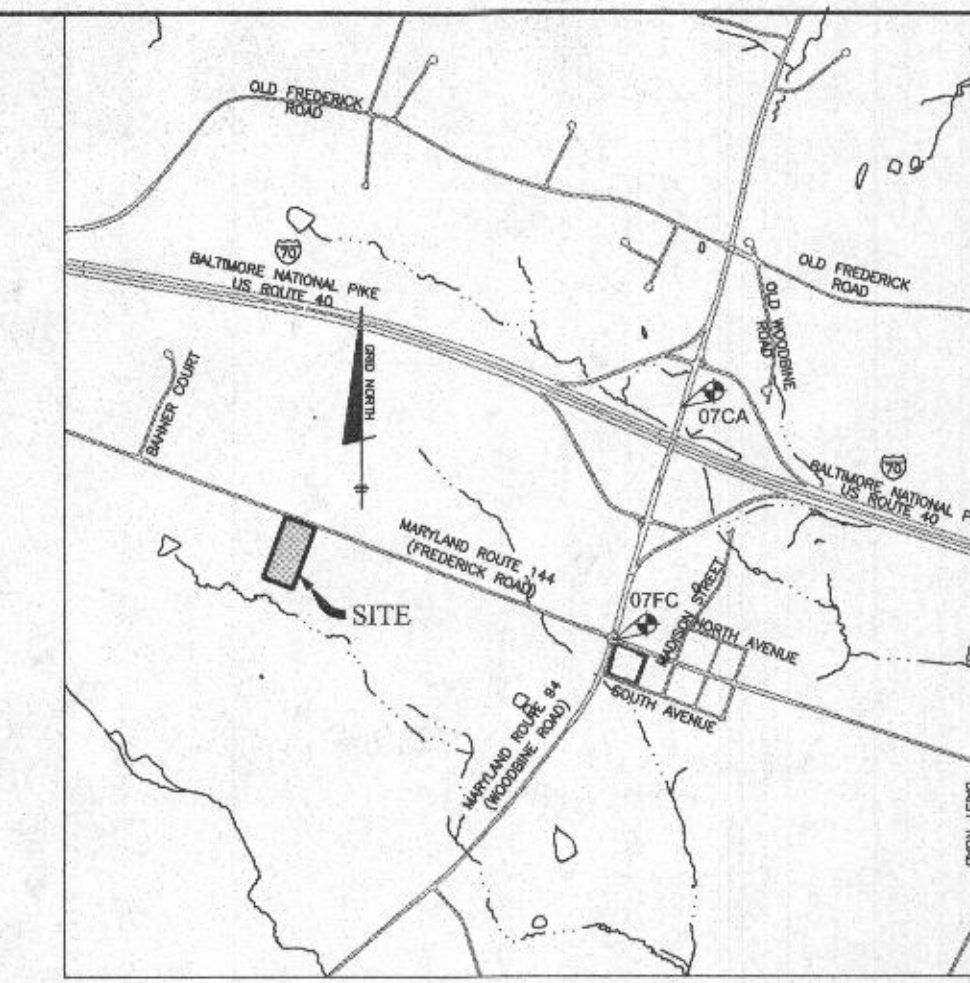
LOCATION: TAX MAP: 07, GRID: 10, PARCEL 467  
16483 FREDERICK ROAD  
WOODBINE, MD 21797  
FOURTH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND  
ACCOUNT IDENTIFIED 04-334930

TITLE: SEPTIC PLAN

DATE: SEPTEMBER, 2017 PROJECT NO. 2850  
DRAFT: DESIGN: CHECK: SCALE: AS SHOWN SHEET 1 OF 1

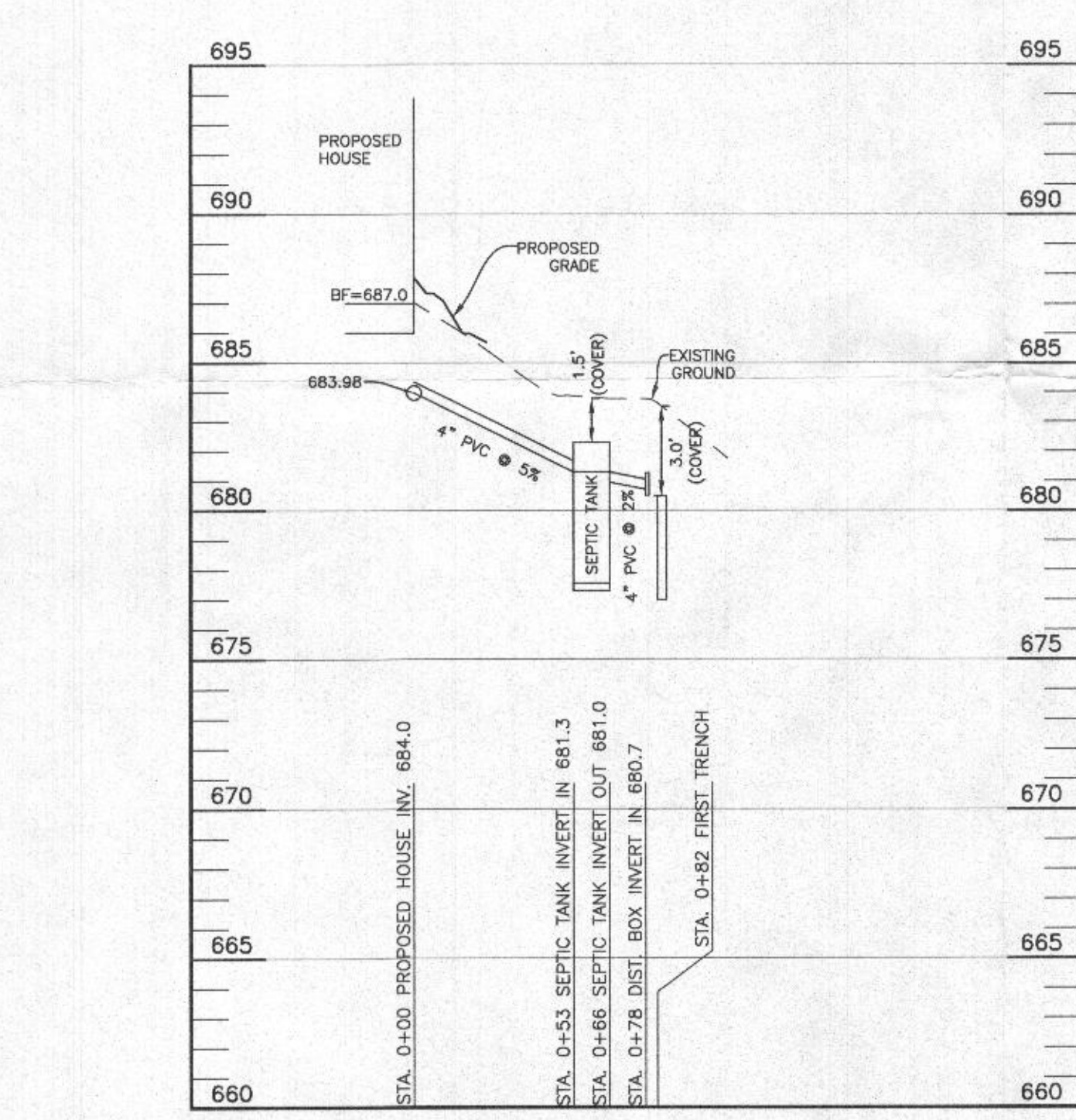
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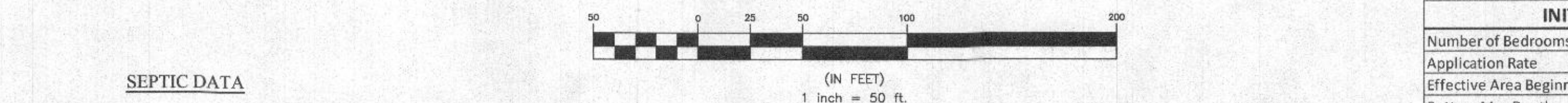
SEWER PROFILE  
SCALE: VERTICAL 1"=5', HORIZONTAL 1"=50'

TRENCH INFORMATION

TRENCH	INITIAL SYSTEM	FUTURE FIRST REPAIR
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	GROUND ELEVATION: 682.9	GROUND ELEVATION: 682.8
	INVERT ELEVATION: 679.9	INVERT ELEVATION: 679.8
	MAX. BOTTOM ELEV.: 676.4	MAX. BOTTOM ELEV.: 676.8
TRENCH T-1-2	TRENCH LENGTH: 85 LF	TRENCH LENGTH: 62 LF
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	INVERT ELEVATION: 679.0	INVERT ELEVATION: 678.8
	MAX. BOTTOM ELEV.: 675.5	MAX. BOTTOM ELEV.: 675.8
TRENCH T-2-1	TRENCH LENGTH: 62 LF	TRENCH LENGTH: 62 LF
	GROUND ELEVATION: 680.7	GROUND ELEVATION: 680.7
	INVERT ELEVATION: 677.7	INVERT ELEVATION: 677.7
	MAX. BOTTOM ELEV.: 674.7	MAX. BOTTOM ELEV.: 674.7

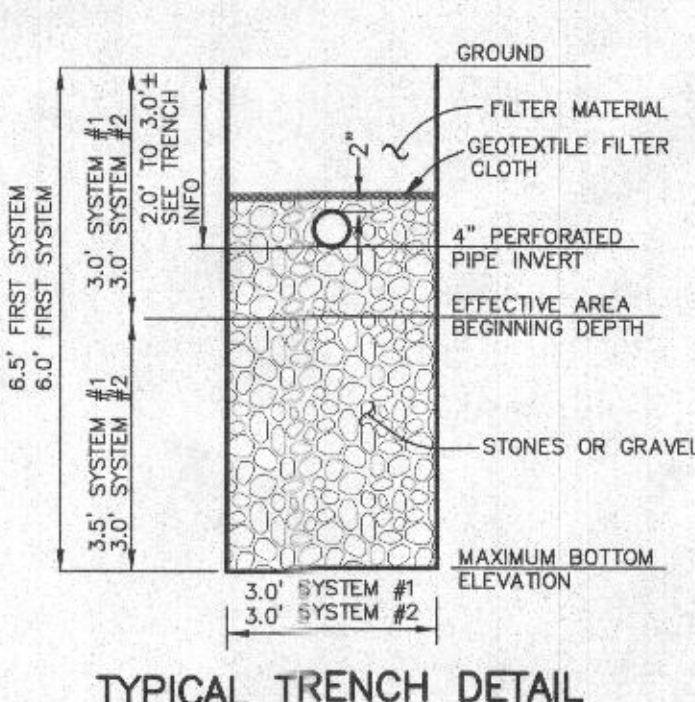


PLAN  
SCALE: 1" = 50'

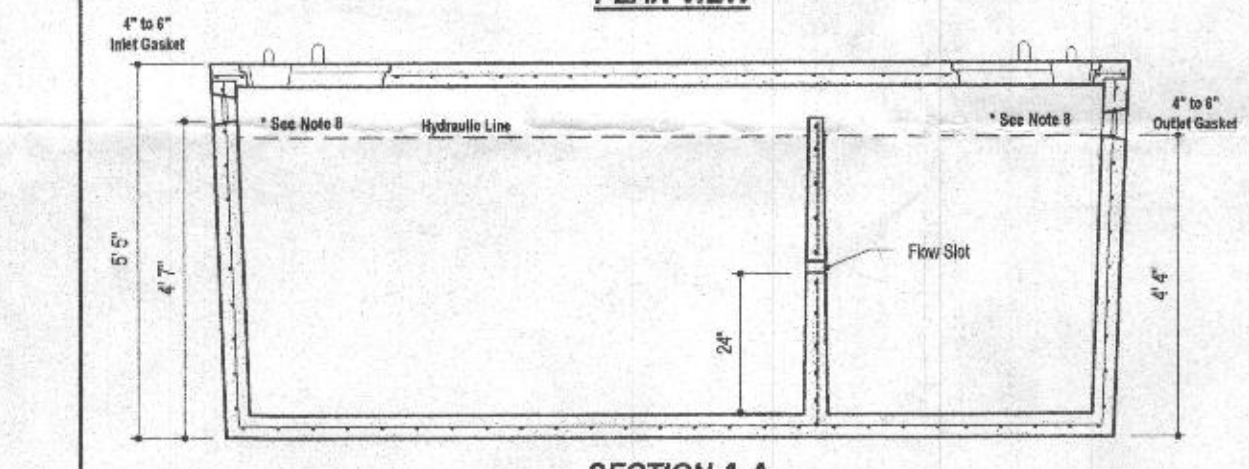
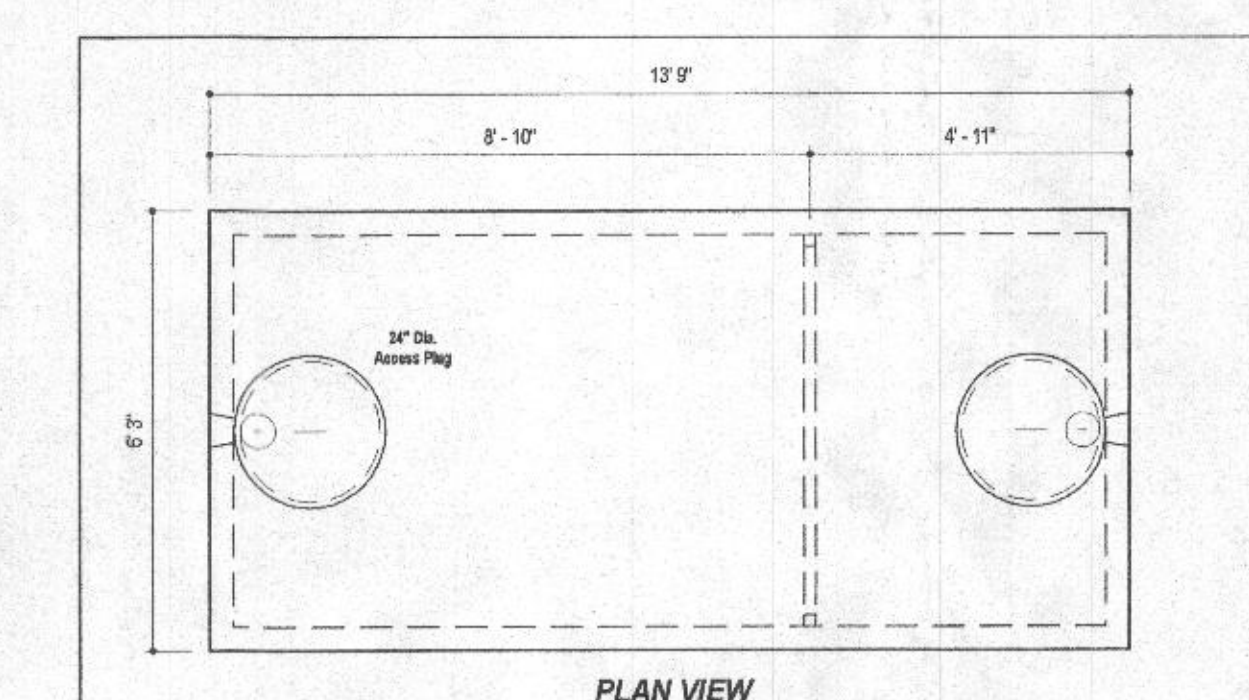


SEPTIC DATA

DESCRIPTION	ELEVATION
FIRST FLOOR BASEMENT ELEVATION	697.0±
INV. OUT OF HOUSE	687.0±
GRADE @ HOUSE	684.2±
GRADE @ HOUSE INV.	689.6±
GROUND OVER SEPTIC TANK	683.8±
TOP OF SEPTIC TANK	682.3±
INV. IN TANK	681.3±
INV. OUT SEPTIC TANK	681.0±
GROUND AT DIST BOX	683.8±
INV. INTO DIST. BOX	680.7±
INV. OUT OF DIST BOX	680.6±



TYPICAL TRENCH DETAIL  
NOT TO SCALE



DESIGN DATA & GENERAL NOTES

- Concrete strength: Form 3000 p.s.i. @ 28 days. Density = 150 pcf.
- Concrete: Portland Type III or ASTM C 1500-02.
- Reinforcing: #4 plastic pipe per ASTM C 900-06 & C 904-02.
- Reinforcing per ASTM A 606, 10m, 1" x 12" cover.
- Top slab finished with sand from outside.
- 2" x 4" x 8" x 12" top blocks.
- 12" x 12" x 4" cover.
- Depending on use of tank, tank & outlet baffles may be required by code.

**2,000 GALLON SEPTIC TANK**  
2-Compartment  
Stock Item (Approx. 19,900 lbs)

Mayer Bros., Inc. 6364 Rice Road, Elkridge, Maryland 21029, Tel: 410.786.1628, Fax: 410.786.1428

Aug 11, 2008

LEGEND

- EXISTING CONTOURS (GSI)
- PROPOSED CONTOURS
- PROPOSED STRUCTURE
- WELL BOX
- SEWAGE DISPOSAL AREA
- PERCOLATION TEST PASSED (5/5/2015)
- EXISTING WELL LOCATION

Approved Septic System Plan  
Howard County Health Department  
*Dana Burnard* 10-4-17  
Signature Date

THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF ENGINEERING/CONSTRUCTION INSPECTION DIVISION AT 410-313-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF ANY WORK.

THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE.

INITIAL SYSTEM

Number of Bedrooms	6
Application Rate	0.8 gpd/sf
Effective Area Beginning Depth	3 ft
Bottom Max Depth	6.5 ft
Design Flow	900 gpd
Drainage Field square footage	1125 sf
Sidewall reduction credit	0.45454545
Trench width	3
Effective Area Depth	3.5
Linear Length of trench Required	170 lf

1st REPLACEMENT SYSTEM

Number of Bedrooms	6
Application Rate	0.8 gpd/sf
Effective Area Beginning Depth	3 ft
Bottom Max Depth	6 ft
Design Flow	900 gpd
Drainage Field square footage	1125 sf
Sidewall reduction credit	0.5
Trench width	3
Effective Area Depth	3
Linear Length of trench Required	188 lf

**BENCHMARK ENGINEERS & LAND SURVEYORS & PLANNERS**  
6840 BALTIMORE NATIONAL PIKE & SUITE 315 ELLICOTT CITY, MARYLAND 21043  
(P) 410-465-8105 (F) 410-465-8644

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. 45577 Expiration Date: 06-08-2018

OWNER: SHEREE STEDDING, 3140 CELINA LANE, MELBOURNE, FLORIDA 32934, 443-974-7636

PROJECT: STANLEY B. MILLER PROPERTY LOT 12

LOCATION: TAX MAP: 07, GRID: 10, PARCEL 467, 16463 FREDERICK ROAD, WOODBINE, MD 21797, FOURTH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND, ACCOUNT IDENTIFIED 04-334930

TITLE: SEPTIC PLAN

DATE: SEPTEMBER, 2017 PROJECT NO. 2850  
SCALE: AS SHOWN SHEET 1 OF 1