

**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: 12/14/18      **ONSITE SEWAGE DISPOSAL SYSTEM**      P 564096  
 APPROVAL DATE: 12/3/19      **PERMIT:**      **REPAIR**      A \_\_\_\_\_  
 PROPERTY ADDRESS: 18950 Windsor Forest Road  
 SUBDIVISION: \_\_\_\_\_ LOT: \_\_\_\_\_ TAX ID: 04-323521  
 CONTRACTOR: Fogle's Septic Clean Inc.      EMAIL: kim@foglesinc.com  
 CONTRACTOR ADDRESS: 580 Obrecht Road, Sykesville, MD 21784      PHONE: 410-795-5670  
 PROPERTY OWNER: Rob Scranton      EMAIL: \_\_\_\_\_  
 OWNER ADDRESS: 18950 Windsor Forest Road, Mount Airy, MD 21771      PHONE: 410-977-1725

SEPTIC TANK SIZE (GALLONS): 1000      PUMP CHAMBER CAPACITY (GALLONS): - 500      PUMP SIZE: - 60003L  
 NUMBER OF BEDROOMS: N/A - 150sqd      HOUSE SQ. FT. N/A      APPLICATION RATE: N/A  
 DISTRIBUTION SYSTEM:      GRAVITY FED       LOW PRESSURE DOSED

TRENCHES:	LINEAR FEET REQUIRED: _____	INLET DEPTH: _____
	TRENCH WIDTH: _____	MAXIMUM BOTTOM DEPTH: _____
	MINIMUM SPACE BETWEEN TRENCHES: _____	EFFECTIVE AREA BEGINNING DEPTH: _____
	LOCATION: <b>TO BE STAKED BY SANITARIAN DURING PRE-CONSTRUCTION INSPECTION.</b>	
NOTES:	Install tank + pump tank leading to existing house building sewer per Vanner plan approved 12/10/18. Install NSF 46 effluent filter on tank	

ISSUED BY: J. Williams      ISSUE DATE: 12/14/18      EXPIRATION DATE: \_\_\_\_\_

- 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 SEPTIC TANKS REQUIRED
- NOTE: ALL PARTS OF SEPTIC SYSTEM SHALL BE AT LEAST 100 FEET DOWNGRAIENT 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 19000640
- NOTE: THE HCHD DOES NOT WARRANTY ANY SYSTEM AND CANNOT GUARANTEE THE PERFORMANCE OF THIS SYSTEM AS DESIGNED. BY ACCEPTING THIS PERMIT, THE OWNER AND/OR APPLICANT ACKNOWLEDGE THAT THE SPECIFICATIONS DETAILED IN THIS DESIGN ARE ONE POSSIBLE OPTION AND THAT THE HCHD WILL REVIEW OTHER PROPOSALS. YOU HAVE THE OPTION TO SEEK THE ADVICE OF A QUALIFIED DESIGN CONSULTANT OR PROFESSIONAL ENGINEER FOR FURTHER GUIDANCE.
- 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

See attached sheet  
for as-built  
drawing

ROAD NAME

**TRENCH DRAINFIELD DATA**

WIDTH	INLET	BOTTOM
_____	_____	_____
NUMBER OF TRENCHES _____		
TOTAL LENGTH _____		
ABSORPTION AREA _____		
DISTRIBUTION BOX LEVEL _____		
DISTRIBUTION BOX BAFFLE _____		
DISTRIBUTION BOX PORT _____		

**SEPTIC TANK DATA**

SEPTIC TANK I LEVEL	_____
MANUFACTURER	_____
CAPACITY	_____ GAL
DEPTH	_____
WORKING DEPTH	_____
INLET	_____
OUTLET FILTER	_____
MANHOLE LOC	_____
OUTLET LOC	_____
WATER TIGHT TEST	_____
STATUS	_____
TYPE OF LID	_____
PUMP TYPE TANK LEVEL	_____
MANUFACTURER	_____
CAPACITY	_____ GAL
DEPTH	_____
WORKING DEPTH	_____
INLET	_____
OUTLET FILTER	_____
MANHOLE LOC	_____
OUTLET LOC	_____
WATER TIGHT TEST	_____
STATUS	_____
TYPE OF LID	_____

**PRE-CONSTRUCTION:**

1/29/19 Met Fogle's and Rob Scramton on site for layout. Determined a site for tanks at beam end location for tie-in to ex. line near garage. Need clo before tank. (S)

**INSTALLATION:**

1/30/19 Tank holes dug, Fogle's waiting for tank delivery. (S) 1/31/19 Tanks set and connected to existing line out of building that runs under the driveway. Effluent filter installed in septic tank - will get specs to ensure it meets NSF 46 standard. 155' of 2" force main installed, rocky in parts - Fogle's will make sure line has dirt packed over it. (S) 2/4/19 Force main connected to existing sewer line. Need pump + alarm test. (S) 3/15/19 Met Fogle's on site for pump + alarm test. Alarm sounds, pump pumps effluent to septic tank. Sand filters of existing system have wood covers with gaps + broken boards (corrective action). Must be fixed prior to permit approval. Notified owner. (S) 4/7/19 Covers installed & okay per supervisor. (S)

FINAL INSPECTOR Hank Oswald

DATE OF APPROVAL 12/3/19





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 Facebook: www.facebook.com/hocohealth  
 Twitter: HowardCoHealthDep

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

**INFORMATION FORM – SEPTIC SYSTEM REPAIR/UPGRADE**

Reason for Request:

- Failing System
- System relocation for proposed addition
- System upgrade for proposed addition
- Inadequate treatment zone
- Collapsed septic tank
- Collapsed drywell

Has the septic tank been pumped within the last month?

- Yes Date pumped: \_\_\_\_\_
- No

Was a visual inspection of the septic tank and/or drain fields conducted?

- Yes Explain observations: \_\_\_\_\_
- No

Existing system design

- Drywell
- Trench
- Mound
- Unknown
- Other: \_\_\_\_\_

Was a visual inspection of the sewage line conducted?

- Yes
- Blockage leading to the tank
  - Yes. Explain: \_\_\_\_\_
  - No

Blockage leading to the field

- Yes. Explain: \_\_\_\_\_
- No

Is discharge surfacing on the ground?

- Yes
- No

No

Additional Comments: \_\_\_\_\_

\*For REPAIRS, are the owners proposing, or do they plan to add in the future, any additions or modifications to the property, i.e. pools, living space additions, garages, etc? This information must be disclosed at the time of this application. The Health Department will not be able to accommodate requests in the field for property modifications unrelated to the repair request. Such requests may require an additional fee, testing, and submittal of a Percolation Certification Plan, if the property does not meet current Code and Regulation.

Septic Contractor: Fogles Septic Contractor's Phone: 410-795-5670

Contractor's Address: 580 Obrecht Rd. Sykesville, MD 21784

Property Address: 18950 Windsor Forest Pl. Mt. Airy County file:

Subdivision: \_\_\_\_\_ Lot: A3 Year Built: 1996

Owner's Name: Rob Scranton Owner's Phone: 410-977-1725

Name of previous owners: \_\_\_\_\_ Existing bedrooms: 4

Proposed bedrooms: 0

Has this request been previously discussed with a Sanitarian? (Name): No

Public Sewer available/nearby: NO

\*A Sanitarian will be in contact within three business days, depending upon the urgency of the situation, to coordinate the scheduling/review of the repair or upgrade.

\*Prior to scheduling inspections, scaled plans should be submitted to clarify the nature of the addition.\*

Print out a copy of Real Property Data via Dept. of Taxation website \_\_\_\_\_ Indexed file found \_\_\_\_\_

If public sewer may be nearby, verify whether sewer is technically "available" through the Bureau of Engineering.

If sewer is available and the property is within the Metropolitan District, connection to sewer is required. If the owner believes reason for exemption exists, the owner should justify the request in writing.

If soil/site conditions are limited and sewer and/or Metro District status is not conducive to connection, the Sanitarian may recommend pursuit of Emergency Sewer Extension or Emergency Metro District Inclusion. The Owner should contact the Bureau of Utilities for details.

No permit is to be issued nor inspection to be scheduled without prior fee collection at the office unless an emergency situation exists. The contractor is to notify office of the emergency situation as soon as possible.

Site Inspection – 11/7/19  
18950 Windsor Forest Road  
Mt. Airy, MD



Sand Filter Covers 1 & 2

Site Inspection – 11/7/19  
18950 Windsor Forest Road  
Mt. Airy, MD



Sand Filter Cover #1

Site Inspection – 11/7/19  
18950 Windsor Forest Road  
Mt. Airy, MD



Sand Filter Cover #2



# HOWARD COUNTY HEALTH DEPARTMENT

64096

DATE  
12/14/10

Received From

*Taylor Spalding*

PHONE #

*410 953-1170*

For

*Septic Repair 18950 W. Rock Road*

CASH

CHECK

NO.

*63022*

*One hundred sixty five* Dollars

\$

*165.00*

Received By

*[Signature]*

## Oswald, Hank

---

**From:** Oswald, Hank  
**Sent:** Thursday, November 07, 2019 12:56 PM  
**To:** Williams, Jeffrey  
**Cc:** Wolf, Kevin  
**Subject:** Sand Filter Covers\_18950 Windsor Forest Road\_11.7.19  
**Attachments:** Sand Filter Covers\_18950 Windsor Forest Road.pdf

Hi Jeff:

The owner replaced the sand filter covers. See attachment.

Hank

Hank Oswald  
Licensed Environmental Health Specialist  
Howard County Health Department  
Bureau of Environmental Health  
Well & Septic Program  
8930 Stanford Boulevard  
Columbia, MD 21045  
410.313.1786 (Office)  
[hoswald@howardcountymd.gov](mailto:hoswald@howardcountymd.gov)



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

## **Agenda Quality Improvement** **11/21/2019 Accela**

- 8:30 AM Update from Julie on Gaps/missing information on the worksheet/improper submission of information (paper, difficult to understand understandable, etc.)
- 9:00 AM PIA Requests
- 9:30 AM Status (Must be consistent for all three programs)
- 10:00 AM Plan Review
- 11:30 AM Invoice
- 11:45 AM Summary of morning progress and overview of afternoon tasks
- 12:00 PM Lunch
- 12:45 PM Water Sampling
- 2:00 PM Contacts and Required Fields
- 3:00 PM Citizen Portal
- 3:30 PM Update from Julie on today's progress and outstanding items
- 4:00 PM How to test Configuration
- 4:30 PM Close

## Collins, Sarah

---

**From:** Williams, Jeffrey  
**Sent:** Friday, December 28, 2018 8:50 AM  
**To:** 'John Hieatzman'; Rob Scranton  
**Cc:** Wolf, Kevin; Collins, Sarah  
**Subject:** RE: 18950 Windsor Forest Rd

I will grant an extension to have the system installed and approved by **January 31, 2019**. It looks like in our file that we have a payment, but we don't have a permit issued. I will have a completed permit and a copy of the installation plan ready for someone from Fogles to pick up at our counter.

Please note that the system installation must be fully completed with the septic permit approved by **January 31, 2019**, no exceptions. If it is not complete by that date, we will issue citations to the owner starting on **February 1, 2019**. The alternative compliance for the owner is to remove all the plumbing in the barn for our inspection prior to January 31, 2019.

Jeff Williams  
Program Supervisor, Well & Septic Program  
Bureau of Environmental Health  
Howard County Health Dept.  
410-313-4261  
[jewilliams@howardcountymd.gov](mailto:jewilliams@howardcountymd.gov)

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-----Original Message-----

**From:** John Hieatzman [<mailto:john@foglesinc.com>]  
**Sent:** Thursday, December 27, 2018 3:18 PM  
**To:** Rob Scranton; Williams, Jeffrey  
**Subject:** RE: 18950 Windsor Forest Rd

[Note: This email originated from outside of the organization. Please only click on links or attachments if you know the sender.]

Hi Jeff,

Is it possible to give an extension for the date that the work is to be completed by? Based on our current backlog of work (some customers have been waiting 4-6 weeks) we would be looking at the end of January (weather pending). Please let me know if you need any more info.

Regards,

John Hieatzman  
Fogle's Septic Clean, Inc.  
410-795-5670

-----Original Message-----

From: Rob Scranton [mailto:rscranton@catonsvillehomes.com]  
Sent: Thursday, December 27, 2018 10:10 AM  
To: John Hieatzman <john@foglesinc.com>  
Subject: Re: 18950 Windsor Forest Rd

It would be better if you emailed Jeff Williams, update him and request the extension.

Rob Scranton

Sent from my iPhone

> On Dec 27, 2018, at 9:56 AM, John Hieatzman <john@foglesinc.com> wrote:

>

> Rob,

>

> Can you ask for an extension from the health department? I don't know if we'll be able to get out by next week, we have people that have been waiting for 4-6 weeks for repairs ahead of you.

>

> Regards,

>

> John Hieatzman

> Fogle's Septic Clean, Inc.

> 410-795-5670

>

> -----Original Message-----

> From: Rob Scranton [mailto:rscranton@catonsvillehomes.com]

> Sent: Thursday, December 27, 2018 9:49 AM

> To: John Hieatzman <john@foglesinc.com>

> Subject: 18950 Windsor Forest Rd

>

> John,

>

> Can you give me an update on your schedule for the septic installation at my farm? If you recall, I received an NOV from the HC Health Dept. and need to have the septic installed by 1/4/19.

> I need to provide them an update.

> Thank you for your assistance.

>

> Rob Scranton

>

> Sent from my iPhone



Bureau of Environmental Health  
8930 Stanford Blvd | Columbia, MD 21045  
410.313.2640 - Voice/Relay  
410.313.2648 - Fax  
1.866.313.6300 - Toll Free

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

## NOTICE OF VIOLATION

Posted at residence and sent via email to [rscranton@catonsvillehomes.com](mailto:rscranton@catonsvillehomes.com) on November 28, 2018

November 28, 2018

Robert Scranton  
18950 Windsor Forest Road  
Mt. Airy, MD 21771

**RE: Unapproved disposal of domestic sewage**

Dear Mr. Scranton,

On November 8, 2018 at approximately 10 am, I met with you and Darrell Smith, a Howard County Plumbing and HVAC Inspector, and Charles A. Klein & Sons, Inc. plumbers at your property to discuss an outstanding plumbing permit for a barn on the property built in 2015. The barn was to be tied into the septic system serving the house, yet the Health Department never issued or approved a septic permit. There are currently two sinks and a washing machine in use in the barn and a toilet is installed but not currently in use. The sewage line discharges to a gravel pit behind the barn.

Per the *Howard County Code* 3.804(a)(1):

All domestic sewage shall be disposed of by an approved method of collection, treatment, and effluent discharge in accordance with COMAR [*Code of Maryland Regulations*] and this subtitle. It is a violation of section 12.110(a)3 of the Howard County Code to improperly dispose of domestic sewage.

Per the *Howard County Code* 3.801(e), domestic sewage is defined as:

The liquid or water-carried wastes (including gray water and water treatment backwash) from all buildings including, but not limited to, residential buildings, bathhouses, clubhouses, floating homes, commercial buildings, and institutions.

**You must cap off the sewage line exiting the building immediately.**

**You must obtain a septic repair permit from the Howard County Health Department by December 14, 2019 and complete the septic repair by January 4, 2019. Alternatively, you may remove the plumbing fixtures and contact the Health Department for inspection and verification of removal by December 14, 2018.**

---

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

Plans to tie into the existing septic system must fulfill the requirements of the Health Department, outlined in a document titled 'Conventional Onsite Sewage Disposal System Design Plan Requirements' (attached with this letter). Given that the septic from the barn will tie into the existing septic system behind the house on the property, a separate septic tank and pump tank sized for the barn's water usage are required. In addition, the septic tank must have an effluent filter that meets NSF International standards. The septic design plan must contain details of the pump to be installed, specifics of system dosing, and elevations of all components. The tie-in to the existing system must occur at the gravity line leading into the existing septic tank and must be shown in detail on the septic design plan.

Septic system design plans must be submitted and approved prior to issuance of a septic repair permit. Failure to obtain a septic permit and/or complete the repair within these time frames may result in a citation.

If you believe that the condition described above is not and could not be a hazard to health, or that the Health Department is not acting in compliance with pertinent laws and regulations, you may request a formal hearing before the Board of Health within fifteen (15) days of receipt of this letter. All requests are to be made in writing and directed to the Executive Secretary of the Board of Health at 8930 Stanford Blvd, Columbia, MD 21045.

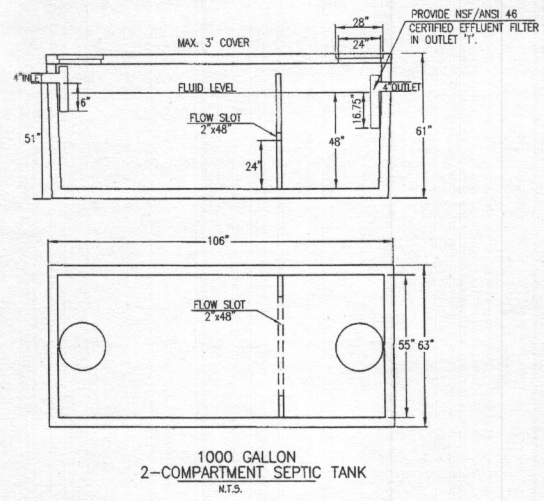
If you have questions regarding this letter, please contact me at the Bureau of Environmental Health at 410-313-1771.

Sincerely,

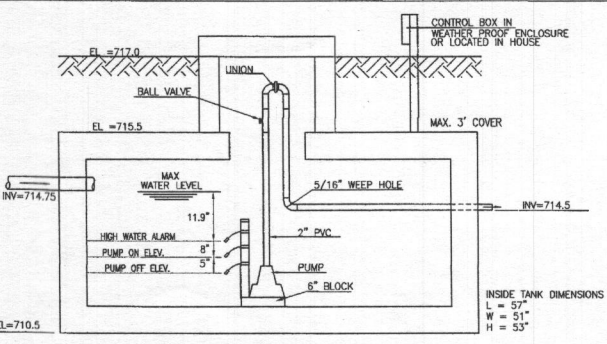


Sarah Collins, L.E.H.S.  
Howard County Health Department  
Well & Septic Program  
[SCollins@howardcountymd.gov](mailto:SCollins@howardcountymd.gov)  
410-313-6287

*Cc: Darrell Smith, Howard County Inspections and Enforcement Division  
File*

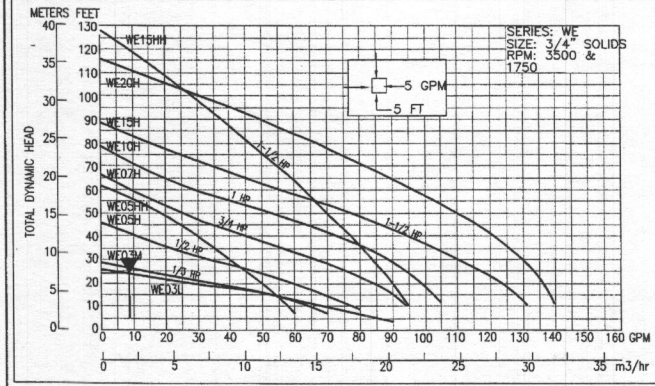


1000 GALLON  
2-COMPARTMENT SEPTIC TANK  
N.T.S.

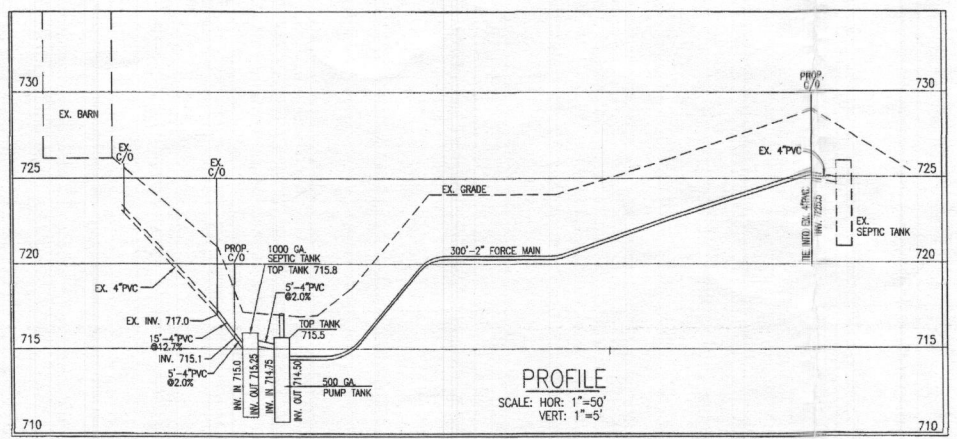
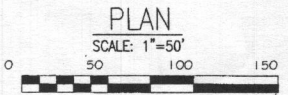
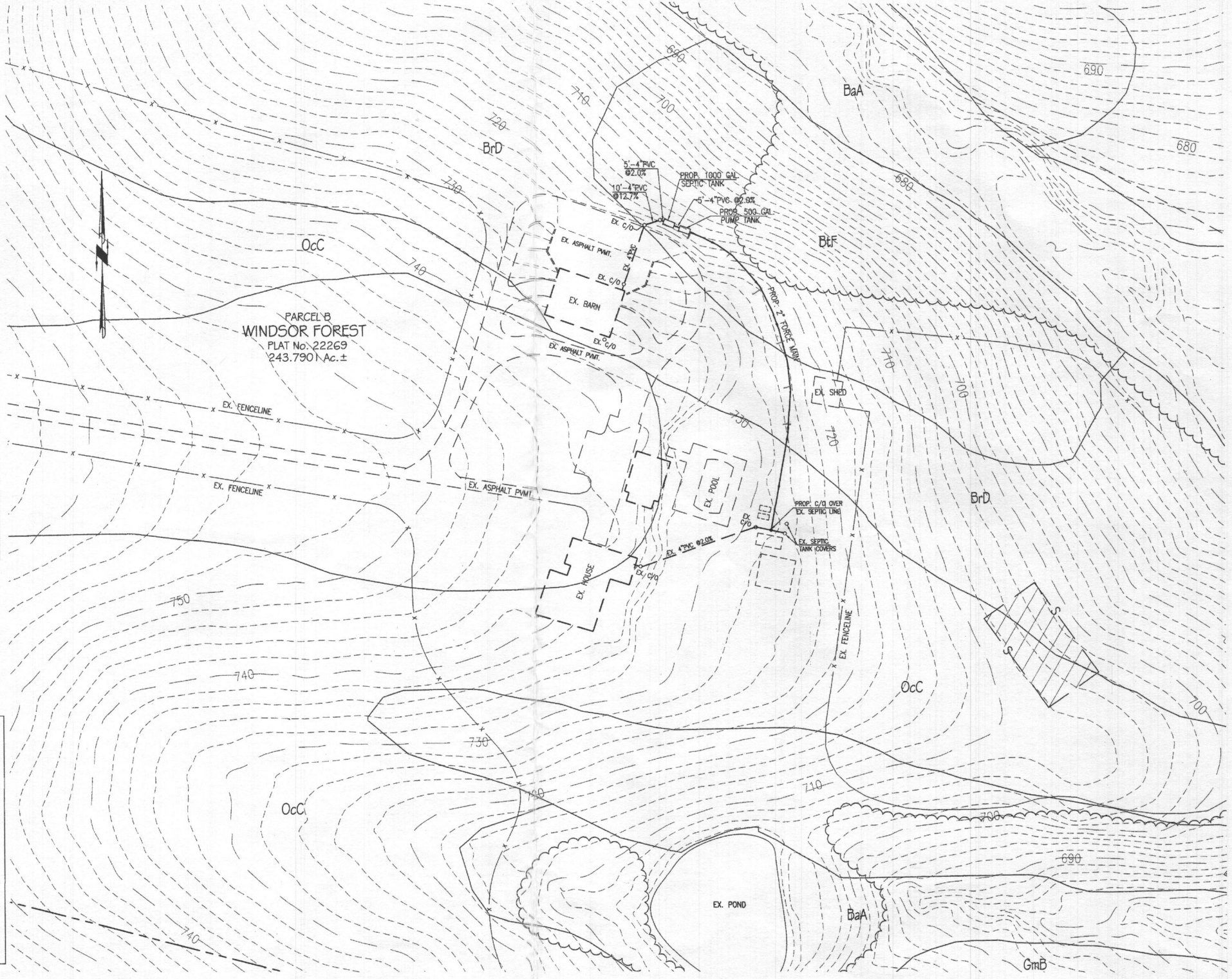


TOP SEAM 500 GAL. PUMP CHAMBER  
NOT TO SCALE

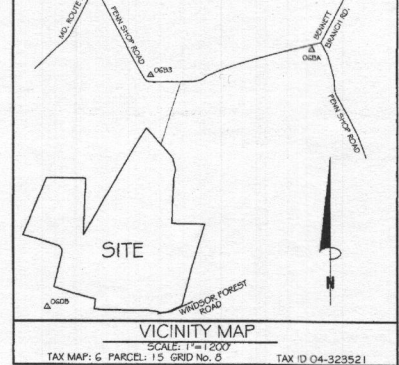
TOTAL DESIGN HEAD (TDH) COMPUTATION		PUMP CHART	
STATIC HEAD	18.25	500 GAL-1 CHAMBER TANK	
FRICTION HEAD	6.1	GOULDS WE-03L	
		MAX. PUMP FLOW RATE = 8.3 GPM	
		PIPE = 2" PLASTIC	
		PIPE LENGTH = 300 FEET	
		ELEV. DIFF. = 18.25 FEET	
		TDH = 24.4 FEET	
TOTAL DESIGN HEAD (TDH)	24.4		



HYDRAULIC GRAPH



PROFILE  
SCALE: HOR: 1"=50'  
VERT: 1"=5'



GENERAL NOTES:

1. TOPOGRAPHY & PLANIMETRIC FEATURES SHOWN HEREON TAKEN FROM COPYRIGHTED GIS DATA FROM HOWARD COUNTY SUPPLEMENTED WITH FIELD LOCATIONS BY VANMAR ASSOCIATES, INC. CONTOUR INTERVAL IS 2 FEET. VERTICAL DATUM IS NAVD88.
2. THE EXISTING WELLS SHOWN ON THIS PLAN HAVE BEEN FIELD LOCATED BY VANMAR ASSOCIATES OR TAKEN FROM AVAILABLE RECORDS AND ACCURATELY SHOWN.
3. ZONING DISTRICT: RC-DEO
4. LIMIT OF DISTURBANCE LESS THAN 5,000 SQ.FT.
5. THERE ARE NO STREAMS, PONDS, FLOODPLAINS OR WETLANDS WITHIN THE AREA OF SEPTIC TANK INSTALLATION.

HORSE BARN SEPTIC SYSTEM DESIGN:

1. DESIGN FLOW EQUIPMENT TO ONE BEDROOM OR 150 GPD.
2. PROVIDE 1000 GAL. SEPTIC TANK AND 500 GAL. PUMP TANK.
3. PROVIDE WASHABLE NSF 46 CERTIFIED EFFLUENT FILTER AT SEPTIC TANK OUTLET. EFFLUENT FILTER SHALL BE TUF-TITE EF-4 EFFLUENT FILTER OR EQUIVALENT.

SITE PLAN NOTES:

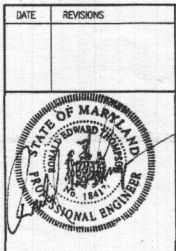
1. ANY CHANGE TO THE LOCATIONS OR DEPTHS TO ANY COMPONENTS MUST BE APPROVED BY THE ENGINEER AND THE HOWARD COUNTY HEALTH DEPARTMENT PRIOR TO INSTALLATION. A REVISED SITE PLAN MAY BE REQUIRED.
2. MAXIMUM COVER OVER THE TANK IS 3 FEET. GREATER DEPTH WILL REQUIRE A HEAVY LOAD BEARING TANK.
3. ELECTRICAL WORK FOR THE INSTALLATION MUST BE PERFORMED BY A LICENSED ELECTRICIAN.
4. EX. WELL (TAG #HO-95-1953)

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

HOWARD COUNTY HEALTH OFFICER

OWNER:  
ROBERT A. SCRANTON  
18950 WINDSOR FOREST ROAD  
MOUNT AIRY, MARYLAND 21771  
410-442-2211

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. 19817, Expiration Date: 9/18/19.



ON SITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN  
PARCEL B  
WINDSOR FOREST  
PLAT No. 22269  
18950 WINDSOR FOREST ROAD  
FOURTH ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND  
SCALE: 1"=50' DECEMBER 2018

VANMAR ASSOCIATES, INC.  
Engineers Surveyors Planners  
310 South Main Street Mount Airy, Maryland 21771  
(301) 829-2890 (301) 831-5015 (410) 549-2751  
Fax (301) 831-5603 ©Copyright, Latest Date Shown

Q:\Projects\18950 Windsor Forest\18950 Windsor Forest.dwg, 03/20/18 3:59:18 PM, HP DesignPlot 1790p 441 18022

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

**MEMORANDUM**

**TO:** Robert Scranton  
*Sent via email to [rscranton@catonsvillehomes.com](mailto:rscranton@catonsvillehomes.com) on 3/18/19*

**FROM:** Sarah Collins, L.E.H.S. **SEC**  
Howard County Health Department  
Well and Septic Program

**DATE:** March 18, 2019

**RE:** Septic permit approval for tie-in from barn

The work to connect the barn to the existing septic system on the lot has been completed. The covers on the sand filters of the existing septic system are unsatisfactory and must be replaced with covers that are watertight and airtight before the septic permit for the barn tie-in can be approved. Please call our office to schedule an inspection once this has been completed.



Feel free to contact me at 410-313-6287 or [SCollins@howardcountymd.gov](mailto:SCollins@howardcountymd.gov) with any questions.

Cc: Darrell Smith, Plumbing and HVAC Inspector ([jasmith@howardcountymd.gov](mailto:jasmith@howardcountymd.gov))  
File

## **Williams, Jeffrey**

---

**From:** Williams, Jeffrey  
**Sent:** Wednesday, May 15, 2019 3:11 PM  
**To:** 'Rob Scranton'  
**Subject:** 18950 Windsor Forest Rd

Hi Rob. Sarah has left our Department for another job and I'm checking up on your property and the covers for the sewage treatment system. Last thing I see in the file is an email from you on 3/19/19 stating that you were ordering the material. Do you have any update on that? Thanks

Jeff Williams  
Program Supervisor, Well & Septic Program  
Bureau of Environmental Health  
Howard County Health Dept.  
410-313-4261  
[jewilliams@howardcountymd.gov](mailto:jewilliams@howardcountymd.gov)

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## Collins, Sarah

---

**From:** Rob Scranton <rscranton@catonsvillehomes.com>  
**Sent:** Tuesday, March 19, 2019 4:17 PM  
**To:** Williams, Jeffrey  
**Cc:** Collins, Sarah; Chip Bean  
**Subject:** RE: FW: 18950 Windsor Forest Road septic permit

[Note: This email originated from outside of the organization. Please only click on links or attachments if you know the sender.]

Thank you for the clarification.  
We will get the material ordered.

Rob Scranton  
Catonsville Homes LLC  
11175 Stratfield Court  
Marriottsville, MD 21104  
410.442.2211 x206  
[Website](#) \* [Facebook](#) \* [Instagram](#)

---

**From:** Williams, Jeffrey [mailto:jewilliams@howardcountymd.gov]  
**Sent:** Tuesday, March 19, 2019 2:04 PM  
**To:** Rob Scranton  
**Cc:** Collins, Sarah  
**Subject:** FW: FW: 18950 Windsor Forest Road septic permit

Hi Rob. Take a look at Steve Krieg (MDE) response below. I think your plan to replace the cover sounds fine as long as it offers some weather protection and protection from vermin/vector insects. Thanks  
Jeff

---

**From:** Steven Krieg -MDE- <steven.krieg@maryland.gov>  
**Sent:** Tuesday, March 19, 2019 10:32 AM  
**To:** Williams, Jeffrey <jewilliams@howardcountymd.gov>  
**Subject:** Re: FW: 18950 Windsor Forest Road septic permit

[Note: This email originated from outside of the organization. Please only click on links or attachments if you know the sender.]

According to American, the cover doesn't need to be of proprietary materials and can be made from products purchased at Home depot. Like a shed roof. It should not be airtight.

On Tue, Mar 19, 2019, 8:26 AM Williams, Jeffrey <jewilliams@howardcountymd.gov> wrote:

Steve, can you take a look at this email from Rob Scranton regarding his drip system and the cover over the sand filter. He currently has a wooden cover with boards missing, exposing the system to open air and weather. I don't know enough about this system to say whether his solution below is appropriate. Please advise. Thanks

Jeff



The Public Health and Safety Organization

## NSF Product and Service Listings

These NSF Official Listings are current as of **Tuesday, February 05, 2019** at 12:15 a.m. Eastern Time. Please [contact NSF](#) to confirm the status of any Listing, report errors, or make suggestions.

Alert: NSF is concerned about fraudulent downloading and manipulation of website text. Always confirm this information by clicking on the below link for the most accurate information:

<http://info.nsf.org/Certified/Wastewater/Listings.asp?Standard=046&Company=0E450&>

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### NSF/ANSI 46 Evaluation of Components and Devices Used in Wastewater Treatment Systems

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#### Clarus Environmental DBA Zoeller

3649 Cane Run Road

Louisville, KY 40211

United States

877-244-9340

877-244-9340

**Facility :** Boonville, IN

#### Septic Tank Effluent Filters[1]

P/N 170-0078

P/N 5000-0007[2]

[1] Performance testing using bead size  $0.338 \text{ cm} \pm 0.005 \text{ cm}$  ( $1/8" \pm 0.002"$ ). Meets the full requirements of NSF/ANSI 46-2010.

[2] Septic tank effluent filter P/N 5000-0007 also Certified for use with a Clarus deluxe filter stock.

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Number of matching Manufacturers is 1

Number of matching Products is 2

Processing time was 0 seconds

## WW1 Effluent Filter

### OWNER'S MANUAL

**Application:** Single family homes.

**Filter Area:** 132 Linear Feet of 1/16" filtration.

**Flow Rate:** 1,500 GPD. Two or more filters may be connected with a manifold for higher flow applications.

**Material:** All materials are non corrodible in the septic tank environment. Sleeve is PVC, primary filter is polypropylene, and filter connection element is neoprene.

**Easy To Install Or Retrofit:** The WW1 Filter fits inside any 4" sanitary tee. To install, slide the cartridge into the sleeve and rotate clockwise to lock. Insert the assembled cartridge and sleeve into the sanitary tee at the tank's outlet. Ensure the white vertical locking tab is pointing toward the outlet of the septic tank before installation. Firmly press the filter down into the sanitary tee until the vertical locking tab snaps into place, then rotate clockwise until the bypass screen no longer rotates. When installed correctly, the cartridge should be capable of rotating within the sleeve to the locked and unlocked position. If the cartridge hangs or will not rotate to the unlocked position, check to make sure the sleeve is installed with the vertical locking tab extending freely into the septic tank's outlet pipe. For an optional high water alarm assembly, order the high water alarm bracket (5090-0014), an alarm box (10-3067) and a float switch (sold separately).

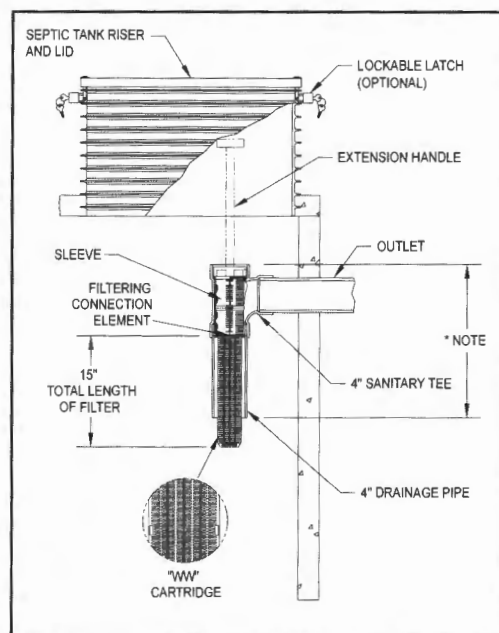
**Adding An Extension Handle:** A 1/2" PVC pipe can be attached to the top of the filter with a stainless steel screw. Cut off to appropriate length below the lid.

**Easy To Maintain:** The cartridge can be removed for maintenance by rotating the handle counterclockwise and then pulling the unit up out of the sleeve. The sleeve should remain in the sanitary tee while cleaning the cartridge. To clean, hold cartridge over septic tank opening and rinse with tap water until clean, washing filtered solids back into the septic tank. In addition, spray off any solids that have accumulated on the inside of the sleeve. The WW1 Filter should be cleaned each time the septic tank is pumped or when the need is indicated by a high water level in the tank or slow flows from the house. The secondary filter sleeve should be cleaned whenever the tank is pumped. For installations that exceed the design flow rate of the filter or in applications where the septic tank is undersized, more frequent cleanings may be required. It is recommended that the filter be inspected and serviced as part of a regular septic tank maintenance routine.

**Troubleshooting, Repair, And Replacement:** Follow the installation and maintenance instructions above. For replacement components, call 1-877-244-9340.

**Lifetime Warranty:** Every Clarus Environmental filter is guaranteed to be free from defects in materials and workmanship for the lifetime of the homeowner/purchaser. Free repair or replacement, excluding labor, will be made on return of the filter prepaid to the factory. This warranty is limited to product proven to be free from abuse or improper installation.

**ALL CLARUS ENVIRONMENTAL PRODUCTS MUST BE INSTALLED IN ACCORDANCE WITH PLUMBING AND HEALTH DEPARTMENT CODES.**



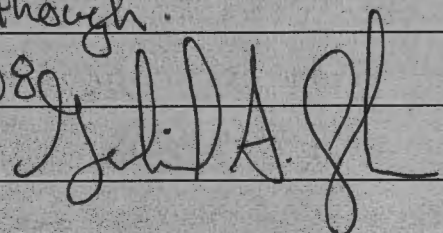
**NOTE:** State and local plumbing codes may require a specific liquid penetration. For example, 25% - 45% into the liquid depth or 9" off the tank bottom.

Product information presented here reflects conditions at time of publication. Consult factory regarding discrepancies or inconsistencies.

FILE INQUIRY NOTES

18950

Windsor Forest Rd.

DATE	RESULTS OF REVIEW FOR FILE
3/6/2008	<p>Site Visit made to confirm proper operation of sand filter pretreatment beds (recirculating) at this address. Everything appears ok. Homeowner stated Fogles had performed maintenance within ~ last 6 mos. To be noted: Sand filter <del>beds</del> beds are covered by handmade wooden <del>caps</del> lids ~3'x7'. These are in the early stages of decay. Seems to me that concrete slabs would be more sensible covers. Homeowner also stated <input checked="" type="checkbox"/> that often after Heavy rainfall events the <del>water pump</del> alarm light will come on for a short period of time. <del>then</del> I informed her that this was likely due to surface runoff overloading the tanks. Drip bed appears to be functioning properly. Would recommend replacing Sand bed covers though.</p> <p style="text-align: right;">3/7/08  </p>

Mrs. Scranon

Hi Steve. I'm emailing this question to you so we can have something in the file for a paper trail.

You may remember that we have an I&A drip system at 18950 Windsor Forest Road. It was approved by Barry for new construction with recirculating sand filters leading to drip. They have recently built a horse barn without a building permit (which they were allowed to do under the agricultural exemption). However, they installed plumbing for a half-bath, utility sink, and laundry facility without a plumbing permit. The county got them to get the plumbing permit, but then contacted us to get our review before they approve it.

I got the owner to send me Floorplans and a description of the use. The Floorplans don't show any living space increase. He did say that the laundry was for washing horse supplies (blankets, pads, etc.) He did not indicate if there is an employee using the bathroom or if it's just for their use. He wants to tie the flow into the drip system.

I'm wondering what you (MDE) think we should say about this considering it's an I&A. It seems like an increase in flow and potentially strength of waste increase with the horse laundry. Do you think we should not allow this to tie into the drip, or require a BAT unit in front of the drip? Make them increase capacity? Get something from Tom Ashton saying that the existing system is able to handle this flow? Something else I'm not considering? Thanks

Jeff Williams

Program Supervisor, Well & Septic Program

Bureau of Environmental Health

Howard County Health Dept.

410-313-4261

[jewilliams@howardcountymd.gov](mailto:jewilliams@howardcountymd.gov)

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--  
**Steven R. Krieg, L.E.H.S.**  
**Regional Consultant for Mid and Western, MD**

**On-site Systems Division**  
**Wastewater Permits Program**  
**Water Management Administration**  
**Maryland Department of the Environment**  
**1800 Washington Boulevard, Suite 455**  
**Baltimore, MD 21230-1708**

**(410) 537-3680** (Direct)  
**(410) 537-3163** (FAX)

**On-site Systems Division Webpage**

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**On-site Systems Division Webpage**

## **Williams, Jeffrey**

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**From:** Steven Krieg -MDE- <steven.krieg@maryland.gov>  
**Sent:** Thursday, November 19, 2015 5:25 PM  
**To:** Williams, Jeffrey  
**Subject:** Re: I&A guidance question

Jeff

Let's make a site visit. I'll call you.

On Thu, Nov 19, 2015 at 1:10 PM, Williams, Jeffrey <[jewilliams@howardcountymd.gov](mailto:jewilliams@howardcountymd.gov)> wrote:

Hi Steve. I'm emailing this question to you so we can have something in the file for a paper trail.

You may remember that we have an I&A drip system at 18950 Windsor Forest Road. It was approved by Barry for new construction with recirculating sand filters leading to drip. They have recently built a horse barn without a building permit (which they were allowed to do under the agricultural exemption). However, they installed plumbing for a half-bath, utility sink, and laundry facility without a plumbing permit. The county got them to get the plumbing permit, but then contacted us to get our review before they approve it.

I got the owner to send me Floorplans and a description of the use. The Floorplans don't show any living space increase. He did say that the laundry was for washing horse supplies (blankets, pads, etc.) He did not indicate if there is an employee using the bathroom or if it's just for their use. He wants to tie the flow into the drip system.

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Jeff Williams

Program Supervisor, Well & Septic Program

Bureau of Environmental Health

Howard County Health Dept.

410-313-4261

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--

***Steven R. Krieg, L.E.H.S.***  
**Regional Consultant for Mid and Western, MD**

**On-site Systems Division  
Wastewater Permits Program  
Water Management Administration  
Maryland Department of the Environment  
1800 Washington Boulevard, Suite 455  
Baltimore, MD 21230-1708**

**(410) 537-3680 (Direct)  
(410) 537-3163 (FAX)**

**[On-site Systems Division Webpage](#)**



## Williams, Jeffrey

---

**From:** Williams, Jeffrey  
**Sent:** Friday, December 28, 2018 8:50 AM  
**To:** 'John Hieatzman'; Rob Scranton  
**Cc:** Wolf, Kevin; Collins, Sarah  
**Subject:** RE: 18950 Windsor Forest Rd

I will grant an extension to have the system installed and approved by **January 31, 2019**. It looks like in our file that we have a payment, but we don't have a permit issued. I will have a completed permit and a copy of the installation plan ready for someone from Fogles to pick up at our counter.

Please note that the system installation must be fully completed with the septic permit approved by **January 31, 2019**, no exceptions. If it is not complete by that date, we will issue citations to the owner starting on **February 1, 2019**. The alternative compliance for the owner is to remove all the plumbing in the barn for our inspection prior to January 31, 2019.

Jeff Williams  
Program Supervisor, Well & Septic Program  
Bureau of Environmental Health  
Howard County Health Dept.  
410-313-4261  
[jewilliams@howardcountymd.gov](mailto:jewilliams@howardcountymd.gov)

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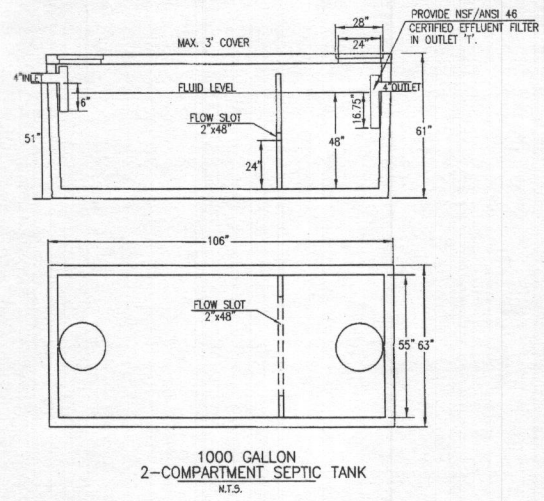
-----Original Message-----

**From:** John Hieatzman [<mailto:john@foglesinc.com>]  
**Sent:** Thursday, December 27, 2018 3:18 PM  
**To:** Rob Scranton; Williams, Jeffrey  
**Subject:** RE: 18950 Windsor Forest Rd

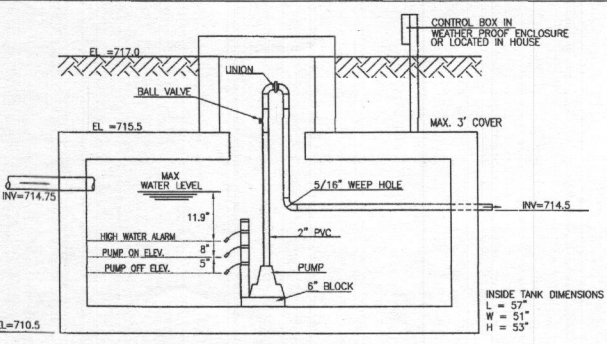
[Note: This email originated from outside of the organization. Please only click on links or attachments if you know the sender.]

Hi Jeff,

Is it possible to give an extension for the date that the work is to be completed by? Based on our current backlog of work (some customers have been waiting 4-6 weeks) we would be looking at the end of January (weather pending). Please let me know if you need any more info.

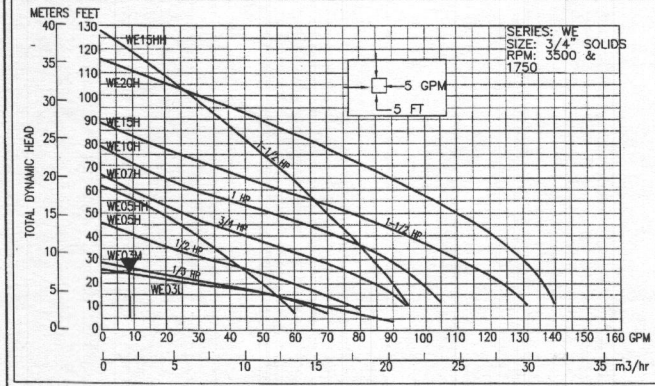


1000 GALLON  
2-COMPARTMENT SEPTIC TANK  
N.T.S.

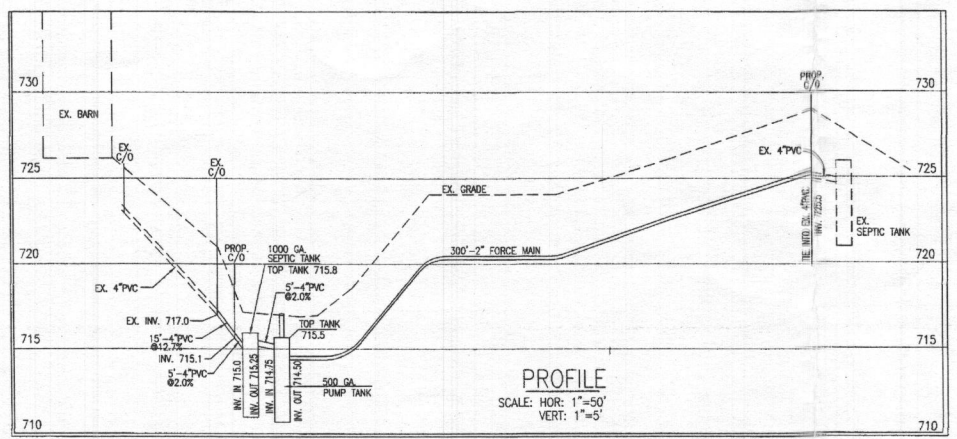
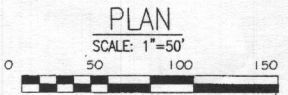
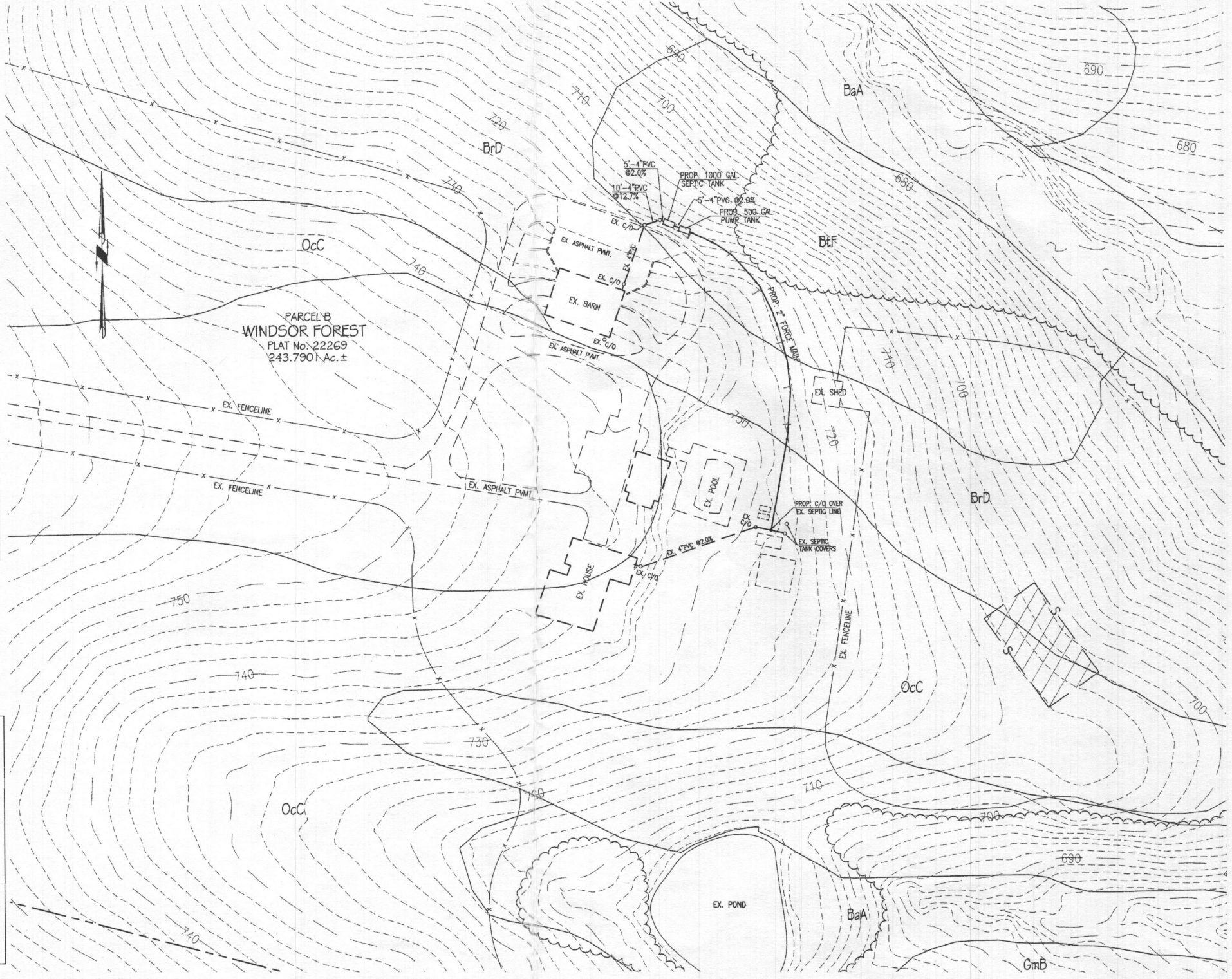


TOP SEAM 500 GAL. PUMP CHAMBER  
NOT TO SCALE

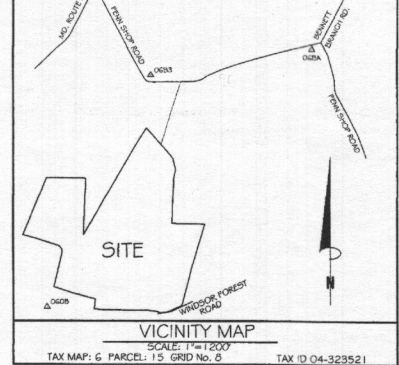
TOTAL DESIGN HEAD (TDH) COMPUTATION		PUMP CHART	
STATIC HEAD	18.25	500 GAL-1 CHAMBER TANK	
FRICTION HEAD	6.1	GOULDS WE-03L	
		MAX. PUMP FLOW RATE = 8.3 GPM	
		PIPE = 2" PLASTIC	
		PIPE LENGTH = 300 FEET	
		ELEV. DIFF. = 18.25 FEET	
		TDH = 24.4 FEET	
TOTAL DESIGN HEAD (TDH)	24.4		



HYDRAULIC GRAPH



PROFILE  
SCALE: HOR: 1"=50'  
VERT: 1"=5'



- GENERAL NOTES:
- TOPOGRAPHY & PLANIMETRIC FEATURES SHOWN HEREON TAKEN FROM COPYRIGHTED GIS DATA FROM HOWARD COUNTY SUPPLEMENTED WITH FIELD LOCATIONS BY VANMAR ASSOCIATES, INC. CONTOUR INTERVAL IS 2 FEET. VERTICAL DATUM IS NAVD88.
  - THE EXISTING WELLS SHOWN ON THIS PLAN HAVE BEEN FIELD LOCATED BY VANMAR ASSOCIATES OR TAKEN FROM AVAILABLE RECORDS AND ACCURATELY SHOWN.
  - ZONING DISTRICT: RC-DEO
  - LIMIT OF DISTURBANCE LESS THAN 5,000 SQ.FT.
  - THERE ARE NO STREAMS, PONDS, FLOODPLAINS OR WETLANDS WITHIN THE AREA OF SEPTIC TANK INSTALLATION.

- HORSE BARN SEPTIC SYSTEM DESIGN:
- DESIGN FLOW EQUIPMENT TO ONE BEDROOM OR 150 GPD.
  - PROVIDE 1000 GAL. SEPTIC TANK AND 500 GAL. PUMP TANK.
  - PROVIDE WASHABLE NSF 46 CERTIFIED EFFLUENT FILTER AT SEPTIC TANK OUTLET. EFFLUENT FILTER SHALL BE TUF-TITE EF-4 EFFLUENT FILTER OR EQUIVALENT.

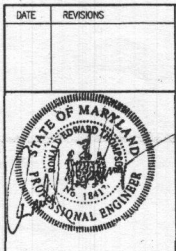
- SITE PLAN NOTES:
- ANY CHANGE TO THE LOCATIONS OR DEPTHS TO ANY COMPONENTS MUST BE APPROVED BY THE ENGINEER AND THE HOWARD COUNTY HEALTH DEPARTMENT PRIOR TO INSTALLATION. A REVISED SITE PLAN MAY BE REQUIRED.
  - MAXIMUM COVER OVER THE TANK IS 3 FEET. GREATER DEPTH WILL REQUIRE A HEAVY LOAD BEARING TANK.
  - ELECTRICAL WORK FOR THE INSTALLATION MUST BE PERFORMED BY A LICENSED ELECTRICIAN.
  - EX. WELL (TAG #HO-95-1953)

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

HOWARD COUNTY HEALTH OFFICER

OWNER:  
ROBERT A. SCRANTON  
18950 WINDSOR FOREST ROAD  
MOUNT AIRY, MARYLAND 21771  
410-442-2211

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. 19817, Expiration Date: 9/18/19.



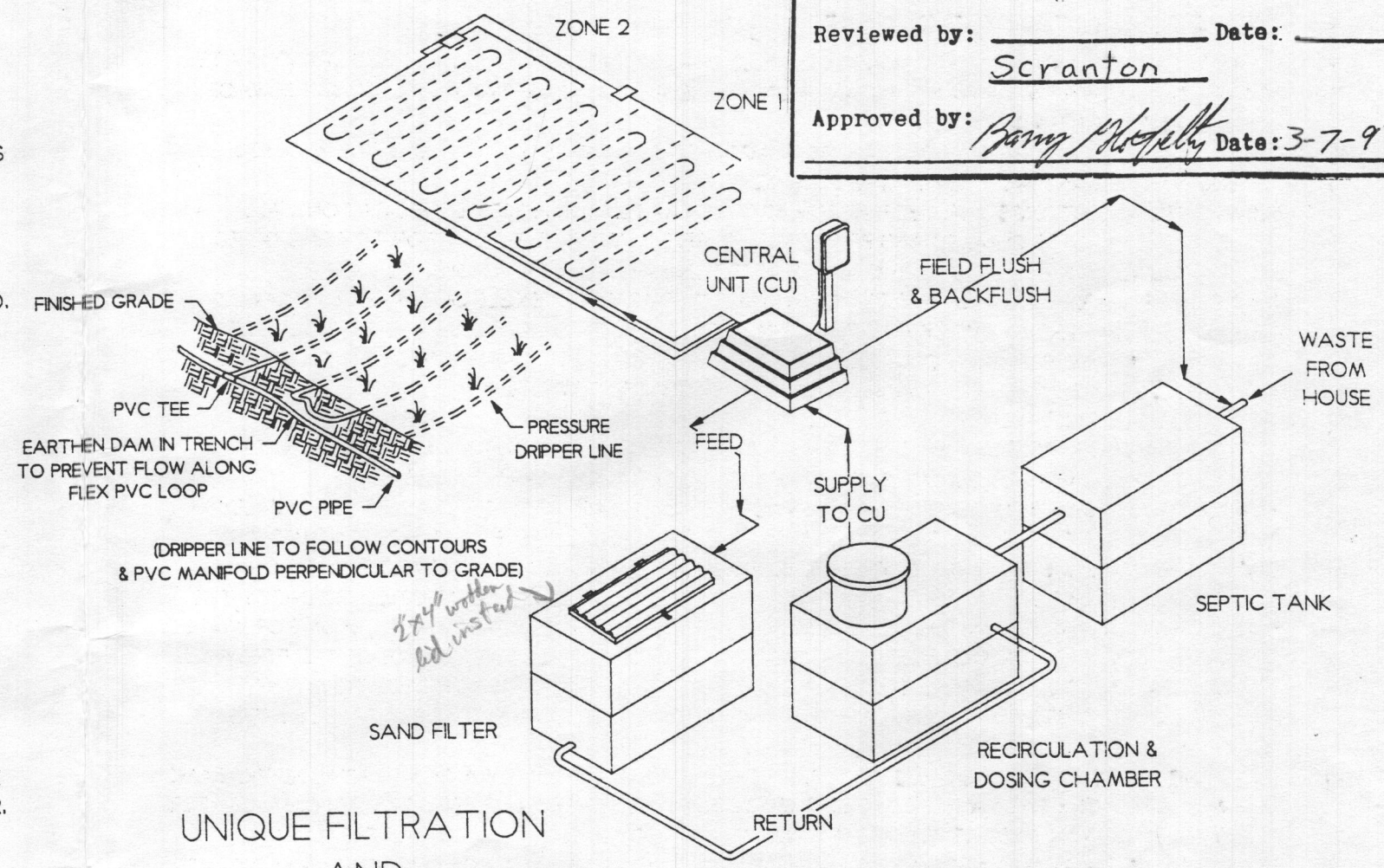
ON SITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN  
PARCEL B  
WINDSOR FOREST  
PLAT No. 22269  
18950 WINDSOR FOREST ROAD  
FOURTH ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND  
SCALE: 1"= 50' DECEMBER 2018

VANMAR ASSOCIATES, INC.  
Engineers Surveyors Planners  
310 South Main Street Mount Airy, Maryland 21771  
(301) 829-2890 (301) 831-5015 (410) 549-2751  
Fax (301) 831-5603 ©Copyright, Latest Date Shown

C:\Users\lsh0454877\Desktop\lsh0454877.dwg, 03/20/18 3:59:18 PM, HP DesignPlot 1799p 461 49622

### GENERAL NOTES DRIP DISPOSAL

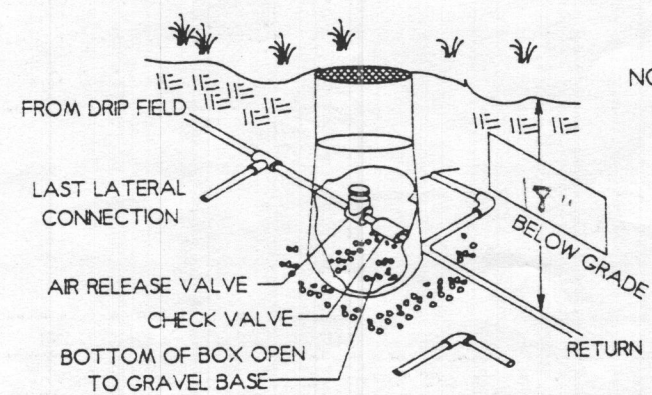
1. ALL INSTALLATION AND CONSTRUCTION TECHNIQUES SHALL CONFORM TO COUNTY CODES AND STATE BOARD OF HEALTH \*SEWAGE HANDLING AND DISPOSAL REGULATIONS PERTAINING TO ON SITE SEWAGE SYSTEMS AND THE PERMIT FOR THIS SITE.
2. THE INSTALLATION OF THIS SYSTEM SHALL BE IN ACCORDANCE WITH SPECIFICATIONS AND PROCEDURES AS SUPPLIED BY THE MANUFACTURER OF THE EQUIPMENT.
3. ALL PVC PIPE AND FITTINGS SHALL BE PVC SCH 40 TYPE 1 RATED FOR PRESSURE APPLICATIONS. ALL GLUED JOINTS SHALL BE CLEANED AND PRIMED WITH PURPLE (DYED) PVC PRIMER PRIOR TO BEING GLUED.
4. ALL CUTTING OF PVC PIPE, FLEXIBLE PVC AND DRIPPER TUBING SHALL BE ACCOMPLISHED WITH PIPE CUTTERS APPROVED BY MANUFACTURER. NO SAWING OF PVC, PVC FLEXIBLE OR DRIPPER TUBING ALLOWED.
5. ALL PVC PIPE, FLEXIBLE PVC AND DRIPPER TUBING IN THE WORK AREA SHALL HAVE THE ENDS COVERED WITH DUCT TAPE TO PREVENT CONSTRUCTION DEBRIS FROM ENTERING THE PIPE. PRIOR TO GLUING ALL JOINTS SHALL BE INSPECTED FOR AND CLEARED OF ANY CONSTRUCTION DEBRIS.
6. NO WET WEATHER INSTALLATION IS PERMITTED.
7. NO ACTIVITY ON DRAINFIELD AREA OTHER THAN MINIMUM REQUIRED TO INSTALL SYSTEM. DO NOT PARK EQUIPMENT, DRIVE LARGE EQUIPMENT OVER, OR STORE MATERIALS ON DRAINFIELD SITE.
8. HORIZONTAL SPACING BETWEEN DRIPPER LINES AND THE INSTALLATION DEPTH SHALL BE AS SPECIFIED.
9. PRIOR TO STARTUP OF THE DRIP DISPOSAL SYSTEM THE AIR RELEASE VALVES SHALL BE REMOVED AND EACH ZONE IN THE SYSTEM SHALL BE FLUSHED AS FOLLOWS: a) USING AN APPROPRIATE LENGTH OF FLEXIBLE PVC PIPE WITH A MALE FITTING ATTACHED TO THE AIR RELEASE CONNECTION TO DIRECT THE FLUSHING WATER AWAY FROM THE CONSTRUCTION AREA. b) FLUSH THE ZONE WITH A VOLUME OF WATER (CLEAN WATER TO BE PROVIDED BY CONTRACTOR) EQUAL TO 1.5 TIMES THE VOLUME OF THE PIPES FROM THE CENTRAL UNIT TO THE AIR RELEASE VALVE, c) REPEAT THIS PROCEDURE FOR EACH ZONE (THE FLUSHING OF THE SYSTEM IS ACCOMPLISHED BY MANUAL OVERRIDE OF THE CONTROL PANEL BY THE MANUFACTURER OR ENGINEER.)
10. IF EXISTING SEPTIC TANKS ARE TO BE USED, THEY SHALL BE PUMPED OUT BY A COMMERCIAL SEPTIC TANK CLEANER. AFTER THE TANK IS EMPTIED IT SHALL BE RINSED, PUMPED AND REFILLED WITH CLEAN WATER. DEBRIS IN SEPTIC TANK MUST BE KEPT TO A MINIMUM AS IT COULD CLOG THE DISK FILTERS DURING START UP. AS DISK FILTERS ARE NOT BACKFLUSHED DURING STARTUP AND ANY CLOGGING COULD CAUSE INCORRECT FLOW RATE READINGS FOR THE CONTROLLER. IF UTILIZED SEPTIC TANKS MUST BE WATERTIGHT.
11. IF TREES ARE TO BE REMOVED FROM SITE, CUTT STUMPS FLUSH WITH GROUND. REMOVE BY HAND.
12. GRAVEL BASE UNDER CENTRAL CONTROL UNIT IS TO BE DRAINED VIA 2" PVC PIPE, SCREENED AT INLET AND OUTLET, DISCHARGE TO BE AT GRADE DOWN SLOPE. (TO ENSURE DRAINAGE OF SURFACE WATER FROM UNIT)
13. THE CONTRACTOR SHALL BE CERTIFIED TO INSTALL THIS TYPE OF SYSTEM BY THE MANUFACTURER AND SHALL HOLD A PRECONSTRUCTION MEETING WITH THE INDIVIDUALS RESPONSIBLE FOR SOIL EVALUATION, PERMITTING AND INSPECTIONS PRIOR TO SITE WORK BEGINNING TO INSURE PROTECTION OF THE SITE CONDITIONS AND TO ENSURE THE SYSTEM IS INSTALLED ACCORDING TO DESIGN.
14. IF SITE CONDITIONS ARE DETERMINED TO REQUIRE THE INSTALLATION OF THE SYSTEM TO DEVIATE FROM THESE PLANS, ALL SITE WORK SHALL STOP IMMEDIATELY AND THE DESIGNER SHALL BE NOTIFIED. ANY ONGOING WORK SHALL BE AT THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
15. ULTRA SHALLOW PLACED DRIP TUBING, SHALL BE COVERED WITH 12"-18" ADDITIONAL COVER.
16. OPERATION AND MAINTAINCE MANUAL TO BE PROVIDED AT JOB COMPLETION.



### UNIQUE FILTRATION AND SUBSURFACE DISTRIBUTION SYSTEM

SCOPE: HOUSEHOLD SEWAGE WILL FLOW BY GRAVITY THROUGH A TREATMENT UNIT (TYP. SEPTIC TANK) THEN TO A FINAL DOSE/RECIRC' TANK. FROM THE DOSE/RECIRC' TANK THE EFFLUENT IS FILTERED THROUGH A HIGH RATE RECIRCULATING SAND FILTER WHERE IT IS THEN RETURNED TO THE DOSE/RECIRC' TANK FOR MIXING AND DISPOSAL. THE CENTRAL UNIT WILL DISPOSE OF THE EFFLUENT BY ALTERNATELY DOSING MULTIPLE ZONES IN THE SOIL ADSORPTION AREA. THE CENTRAL UNIT COMPRISES BOTH THE HYDRAULIC AND CONTROL UNITS.

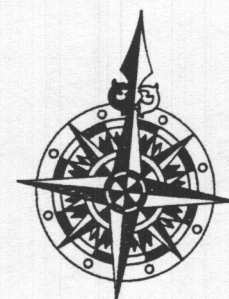
### AIR RELEASE & CHECK VALVE DETAIL



- NOTE: 1. THE AIR RELEASE VALVE SHALL BE PLACED AT THE HIGHEST POINT ON THE RETURN LINE OF EACH ZONE.  
 2. EACH ZONE TO HAVE THE SAME VALVE BOX SETUP AND THEREAFTER CONNECTED.

- SHT 1 COVER SHEET
- SHT 2 SITE PLAN
- SHT 3 ZONE DETAIL
- SHT 4 PUMP & CONTROL DETAIL
- SHT 5 HYDRAULIC PROFILE & RSF DETAIL
- SHT 6 DETAIL & DRIP CALCULATION SHEET

AMERICAN MANUFACTURING COMPANY INC. 5517 WELLINGTON ROAD, GAINESVILLE VA 22065 PHONE: 703-754-0077	
PROJECT NAME: <u>SCRANTON</u> <u>HCTM # 61 P015</u>	DRAFTER: <u>[Signature]</u> DATE: <u>11/14/96</u>
COUNTY: <u>Howard Co md.</u>	CHECKED: _____ DATE: _____
DESIGNED BY: <u>T. Ashion</u>	APPROVED: _____ DATE: _____
TITLE: <b>COVER SHEET</b>	
FILE: L:\DATA\ECAD\PACKAGE\STSP1	SCALE: <u>N/A</u>
REVISION: <u>18 MAR 97</u>	SHEET: <u>1 OF 6</u>



*Scranton Property  
Windsor Forrest Rd  
Howard County*

*as built drawing 6/24/97 RP*

3 Zone Dripfield

*Recirculating  
Media (cartridge)  
Filter*

Control Hydraulic Unit

1500 Gallon  
Septic Tank

1500 Gallon  
Dose Tank

*control panel*

BF = 733.5

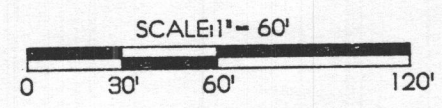
Ex. Well

House

(2) 45 sq.ft. Media Filter Modules

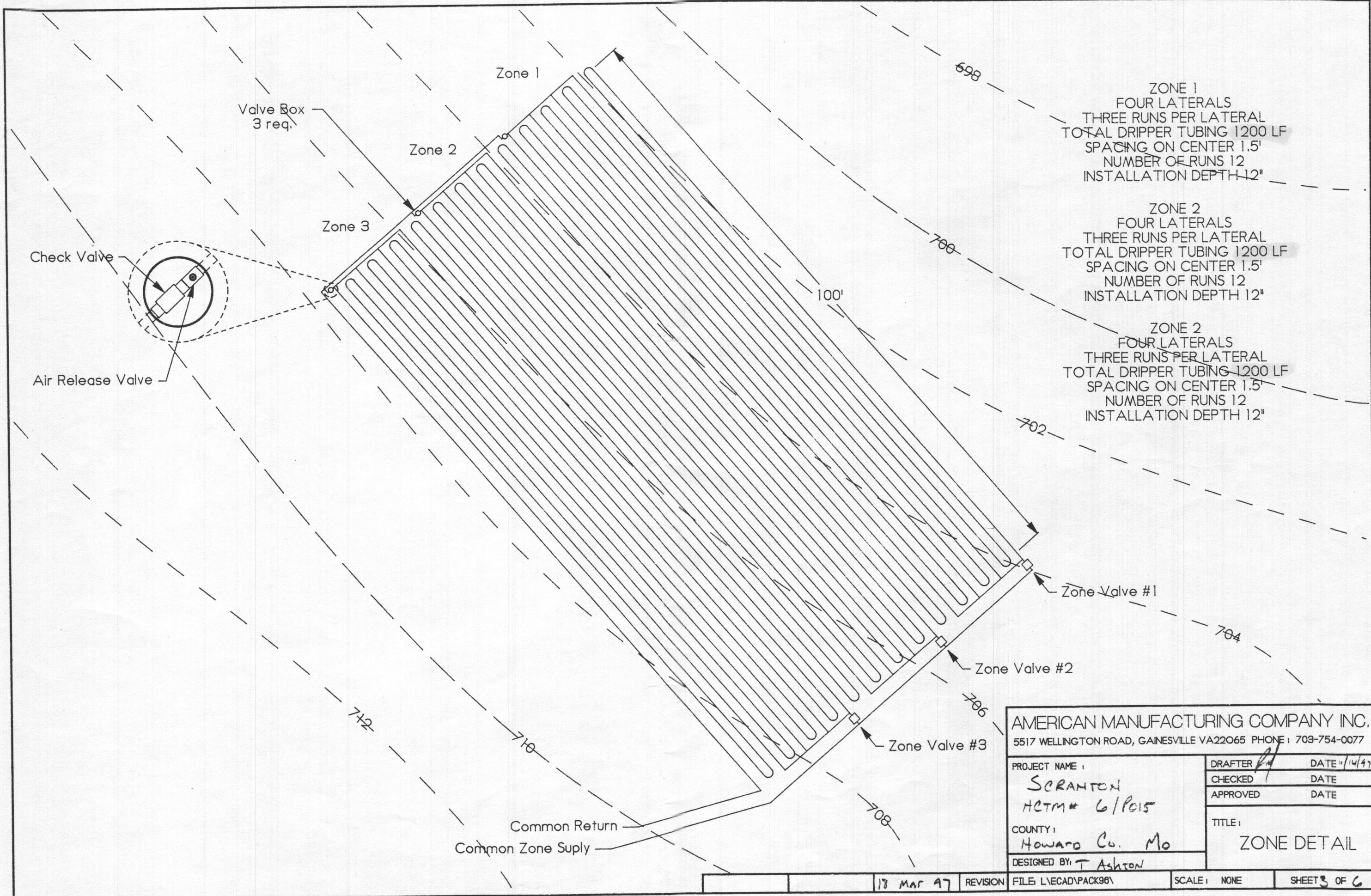
This approval is not valid for more than 2 years from the date of issuance, but may be renewed at the discretion of the Approving Authority.

**NOTE**  
Approval of final field layout is required by the Division of Residential Sanitation at least 48 hours prior to system installation



Ex. Pond

AMERICAN MANUFACTURING COMPANY INC. 5517 WELLINGTON ROAD, GAINESVILLE VA 22065 PHONE: 703-754-0077			
PROJECT NAME:	SCRANTON	DRAFTER: <i>LM</i>	DATE: 11/14/96
	HCTM # 6/PC15	CHECKED:	DATE:
COUNTY:	Howard Co Md	APPROVED:	DATE:
DESIGNED BY:	T. Ashton	TITLE: SITE PLAN	
17 Mar 97	REVISION	FILE: L:\ECAD\PACK96\	SCALE: NONE
			SHEET 2 OF 6

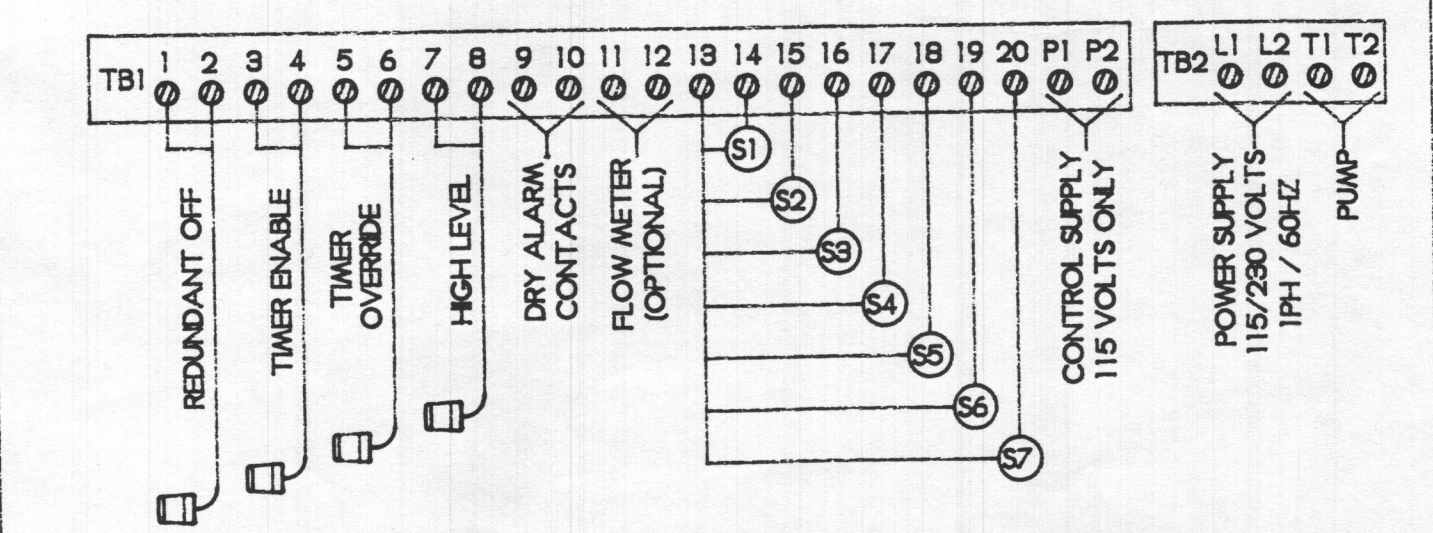
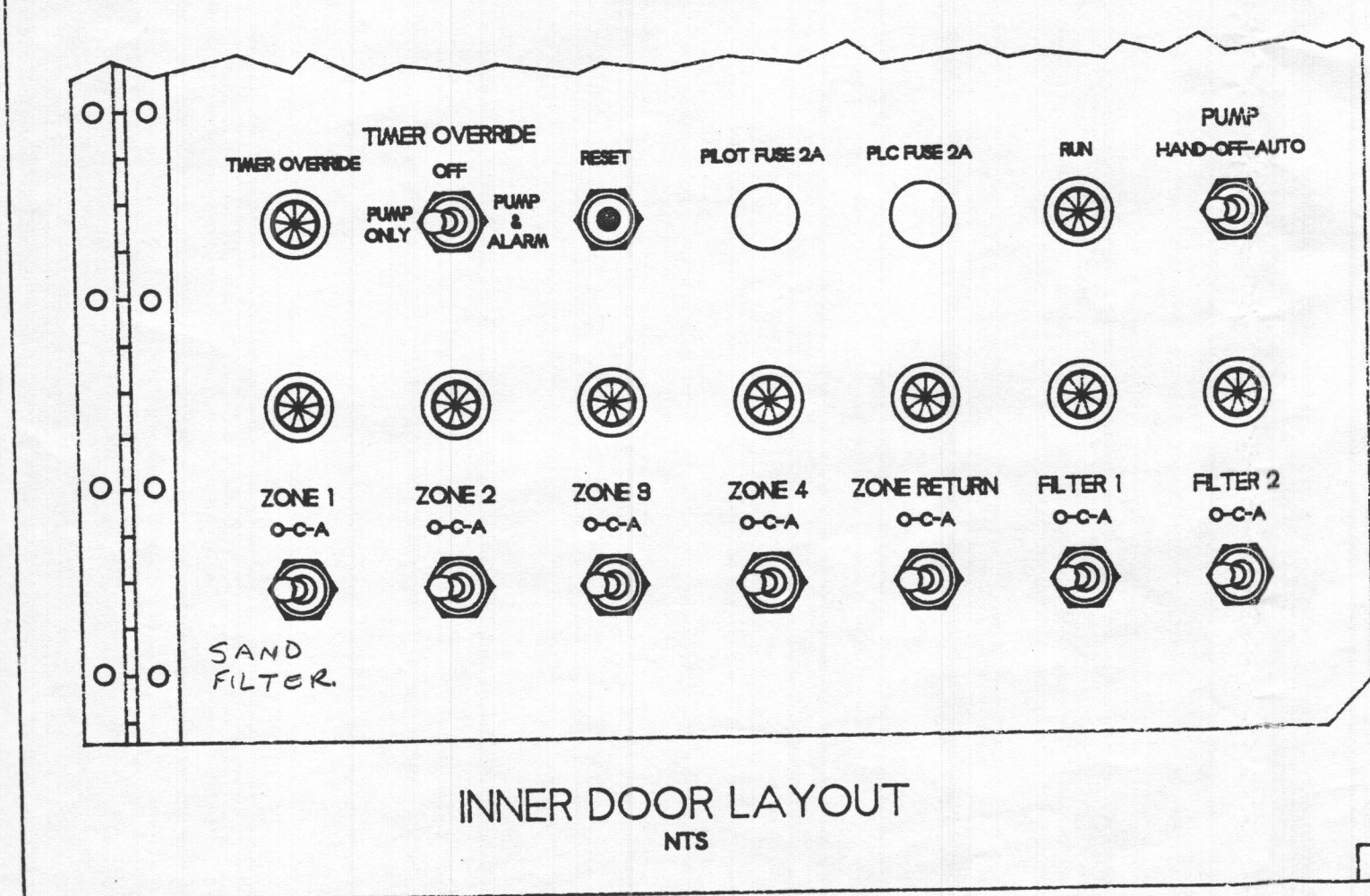
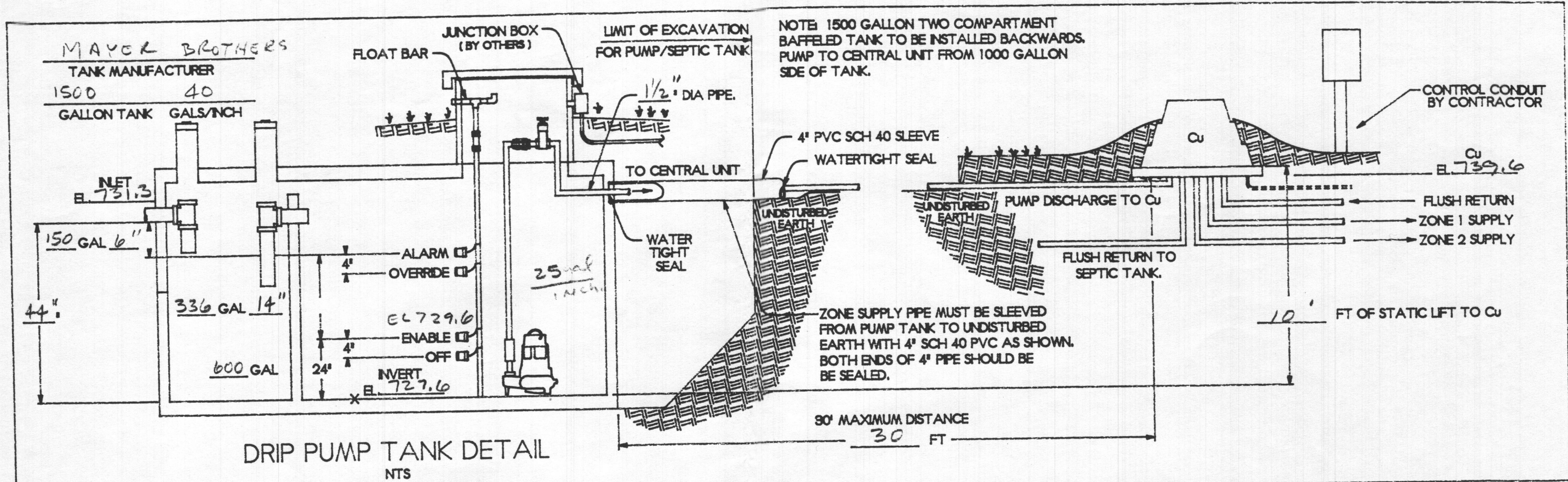


ZONE 1  
 FOUR LATERALS  
 THREE RUNS PER LATERAL  
 TOTAL DRIPPER TUBING 1200 LF  
 SPACING ON CENTER 1.5'  
 NUMBER OF RUNS 12  
 INSTALLATION DEPTH 12"

ZONE 2  
 FOUR LATERALS  
 THREE RUNS PER LATERAL  
 TOTAL DRIPPER TUBING 1200 LF  
 SPACING ON CENTER 1.5'  
 NUMBER OF RUNS 12  
 INSTALLATION DEPTH 12"

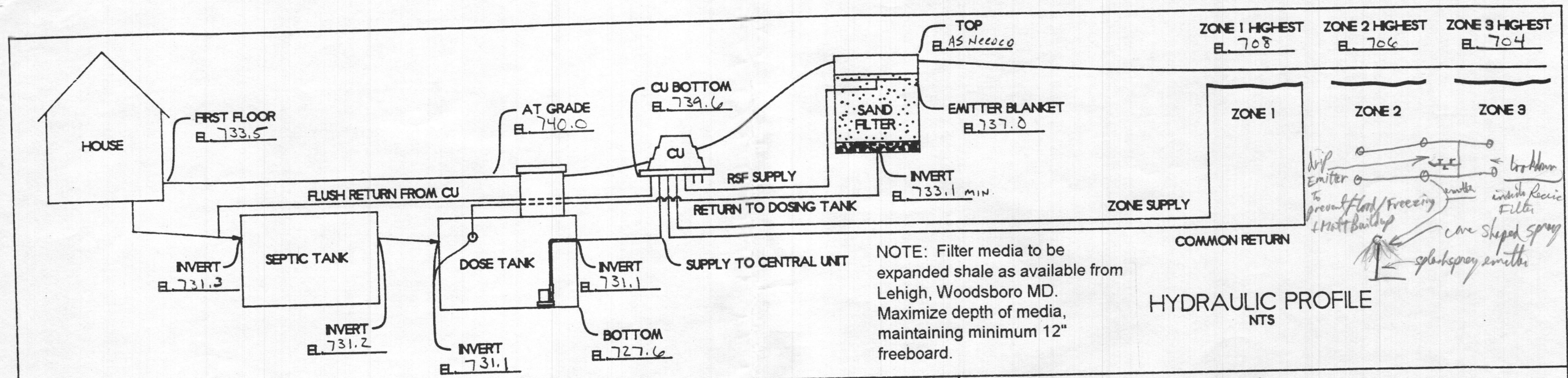
ZONE 2  
 FOUR LATERALS  
 THREE RUNS PER LATERAL  
 TOTAL DRIPPER TUBING 1200 LF  
 SPACING ON CENTER 1.5'  
 NUMBER OF RUNS 12  
 INSTALLATION DEPTH 12"

AMERICAN MANUFACTURING COMPANY INC. 5517 WELLINGTON ROAD, GAINESVILLE VA22065 PHONE: 703-754-0077	
PROJECT NAME: SCRANTON HCM# 6/1015	DRAFTER: [Signature] DATE: 1/14/97
COUNTY: HOWARD Co. Mo	CHECKED: [Signature] DATE:
DESIGNED BY: T. Ashton	APPROVED: [Signature] DATE:
TITLE: ZONE DETAIL	
18 MAR 97 REVISION	FILE: L\ECAD\PACK98\
SCALE: NONE	SHEET 3 OF 6



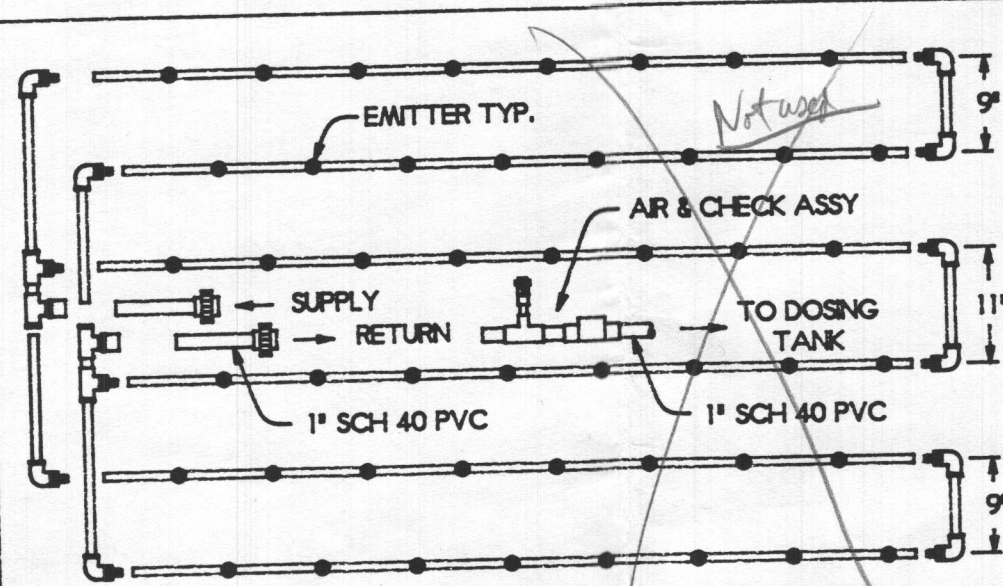
NOTE: Area subject to high groundwater. Top seam tanks specified. Install tanks as shallow as possible, preferably with seam above existing grade. Additional waterproofing to be by bentonite grout at all septic tank and pump chamber inlets / outlets. It is highly recommended that tank seams be grouted with bentonite or flowable fill.

<b>AMERICAN MANUFACTURING COMPANY INC.</b> 5517 WELLINGTON ROAD, GAINESVILLE VA22065 PHONE: 709-754-0077	
PROJECT NAME: SCRANTON WCTM 6/PO15 COUNTY: Howard	DRAFTER: [Signature] CHECKED: [Signature] APPROVED: [Signature] TITLE: <b>PUMP &amp; CONTROL DETAIL</b>
DESIGNED BY:	DATE: 11/14/97
REVISION: FLS L\DATA\BOARD\PACKAGE\DRPM	SCALE: SHEET 4 OF 6



### DRIP DISPOSAL TO RECIRCULATING SANDFILTER CALCULATION

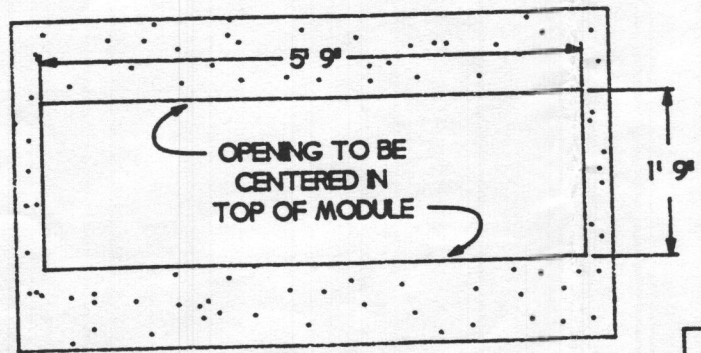
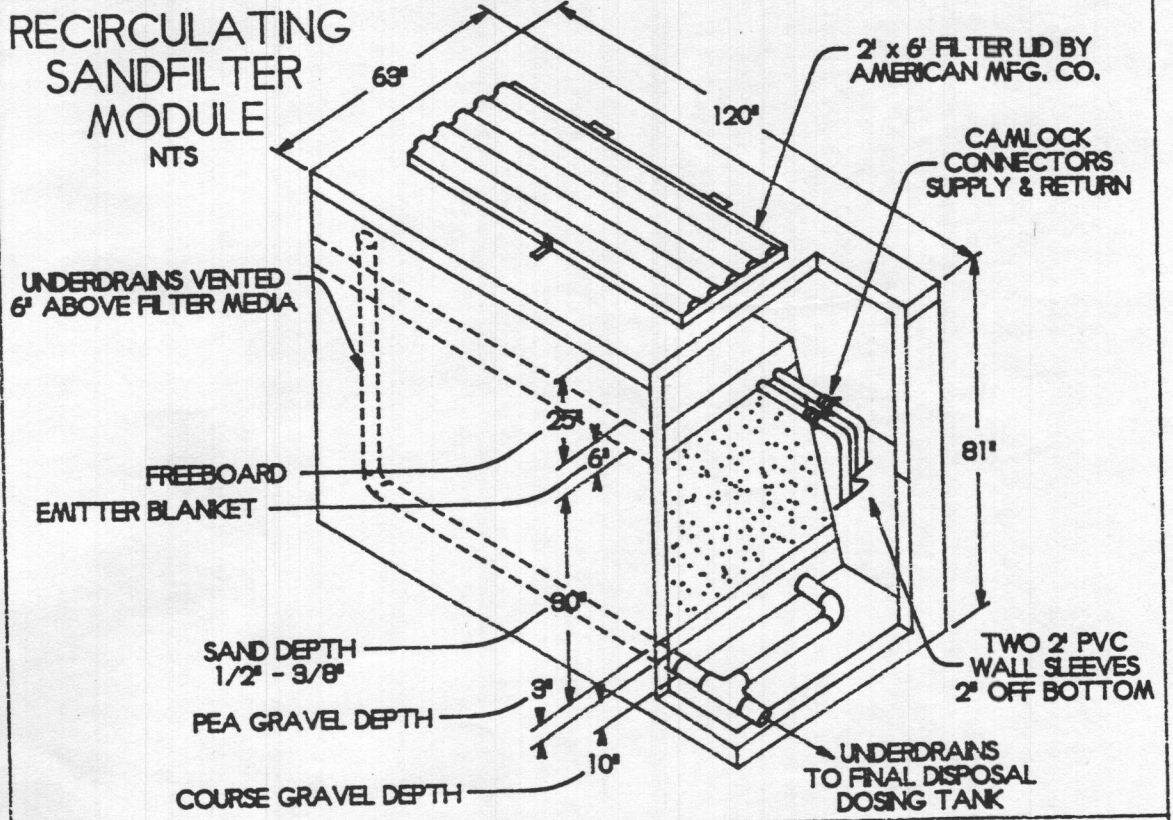
1. 4 NUMBER OF BEDROOMS WATER CONSERVATION YES ( ) NO ( )
2. 150 GPD/BEDROOM
3. 600 TOTAL GALLONS
4. 10 DESIGN GAL/SQFT/DAY EXPANDED SHALE FILTER LOADING RATE
5. 60 SQ FEET FILTER REQUIRED (#3 / #4)
6. 2 S.F. MODULES @ 45 SQ FT /MODULE
7. 90 TOTAL SQ FT @ 5 GPD/SQ FT PROVIDED
8. 4 DESIGN RECIRCULATION RATIO BASED ON FORWARD FLOW
9. 2400 TOTAL GALLONS PER DAY DOSED ( #8 X #3 )
10. 16 CYCLES PER DAY
11. 1 HR 30 MIN FREQUENCY OF CYCLE
12. 150 GALLONS PER CYCLE ( #9 / #10 )
13. — INCHES COVER PER CYCLE ( (#12 / 7.48) / #7 X 12 )
14. — GALLONS -DOSING TANK SIZE @ — GALLONS PER INCH OF TANK
15. 6 INCHES DRAWN PER CYCLE ( #12 / #14 )
16. 100 GALLONS RECIRCULATION STORAGE ( 1/2 DAY TO 1 DAY )
17. — NUMBER OF FILTERS TO RECEIVE PUMP DISCHARGE
18. — NUMBER OF EMITTERS PER FILTER
19. — GPM PER EMITTER
20. — DESIGN PSI FOR EMITTERS
21. 10 TOTAL GPM ( #17 X #18 X #19 )
22. 8 FEET OF STATIC HEAD — PSI
23. 1 INCHES DIAMETER SUPPLY PIPE
24. 100 FEET OF EQUIVALENT LENGTH OF SUPPLY PIPE
25. — PSI TOTAL HEAD LOSS FOR FILTERS ( @ #20 & #21 )
26. — MINUTES — SECONDS DRAWDOWN TIME AT (#12), (#12 / #21)



THE EMITTER BLANKET IS SHIPPED COMPLETE IN A SINGLE BOX. THE SIX, EIGHT FOOT LATERALS COILED INSIDE ARE PREASSEMBLED WITH END PIECES READY TO RECEIVE THE INSERT CONNECTORS.

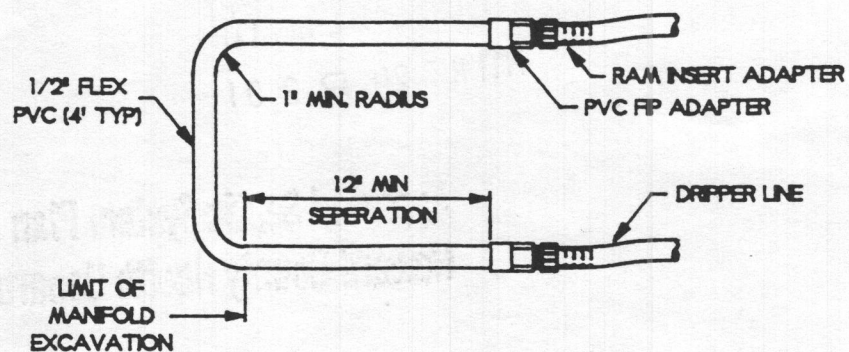
EMITTER BLANKET NTS

### RECIRCULATING SANDFILTER MODULE NTS

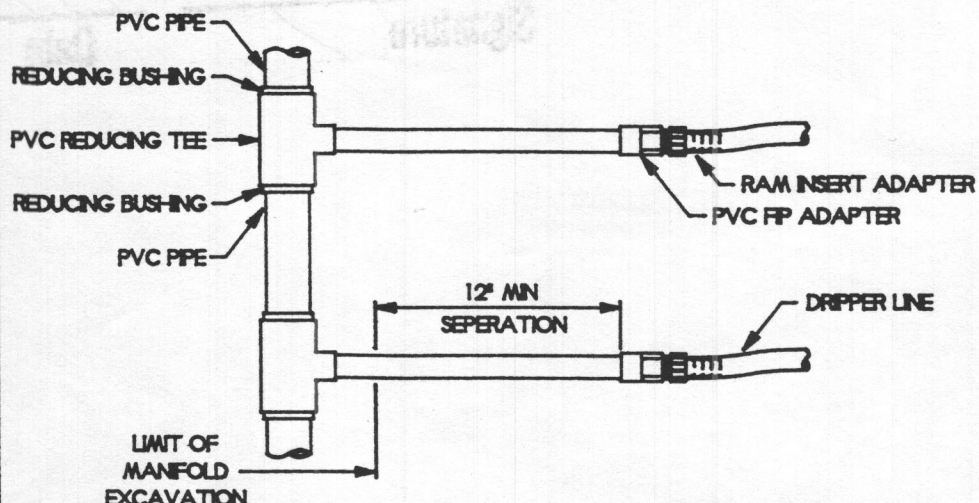


SANDFILTER MODULE ACCESS OPENING DETAIL NTS

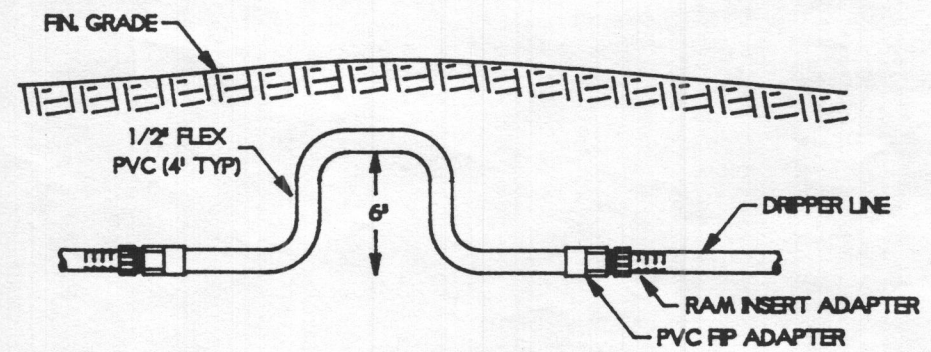
AMERICAN MANUFACTURING COMPANY INC. 5517 WELLINGTON ROAD, GAINESVILLE VA 22065 PHONE: 709-754-0077			
PROJECT NAME: SCRANTON	DRAFTER /A	DATE 11/14/96	
HCTM # 6/P015	CHECKED	DATE	
COUNTY: Howard Co MD	APPROVED	DATE	
DESIGNED BY: T Ashron	TITLE: HYDRAULIC PROFILE & RSF DETAIL		
18 MAR 97	REVISION	FILE: L:\DATA\EDAD\PACKAGE\81878	SHEET 5 OF 6



TYPICAL DRIP LOOP CONNECTION  
NTS



TYPICAL DRIP LINE CONNECTION  
TO PVC MANIFOLD  
NTS



CONTOUR DAM  
NTS

DRIP LINE LATERALS MUST BE PLACED ON CONTOUR WITHIN 1.5' OF ELEVATION DIFFERENCE ACROSS THE ENTIRE LATERAL. IN THE EVENT THE CONTOUR CHANGE ALONG THE LATERAL IS GREATER THAN 6' IN 50', CLAY WATER STOP DAMS SHALL BE INSTALLED IN THE LATERAL TO PREVENT WATER IN THE TRENCH FROM FOLLOWING THE PIPE DOWN THE SLOPE MORE THAN 50'.

DRIP DESIGN WORKSHEET

1. 4 BEDROOMS @ 150 GPD, WATER CONSERVATION YES ( ) NO ( )
2. 600 GALLONS PER DAY
3. II TEXTURE GROUP SOIL CLASSIFICATION
4. .14 GPD/FT<sup>2</sup> TARGET SOIL LOADING RATE @ 12"
5. 100' FT. X 55' FT. AREA FOR DISPOSAL LAYOUT @ 5500 FT<sup>2</sup>
6. .11 GPD/FT<sup>2</sup> SOIL LOADING RATE PROVIDED (#2 / #5a)
7. 3 ZONES
8. 3600 TOTAL DRIPPER LINE REQUIRED
9. 1.5 REQUIRED LINE SPACING
10. 1500 SEPTIC TANK SIZE
11. 1500 DOSING TANK SIZE
12. 25 GALLONS PER INCH DOSING TANK
- ZONE ONE
13.      TOTAL ABSORPTION AREA
14. 1200 LINEAR FEET DRIPPER LINE
15. 300 LONGEST LATERAL LENGTH
16. 6.5 GPM DOSING FLOW RATE
17. 4 # OF FIELD FLUSH CONNECTIONS
18. 6.4 GPM FIELD FLUSH FLOW RATE
19. 12.9 GPM TOTAL FLOW REQUIRED
- ZONE TWO
20.      TOTAL ABSORPTION AREA
21. 1200 LINEAR FEET DRIPPER LINE
22. 300 LONGEST LATERAL LENGTH
23. 6.5 GPM DOSING FLOW RATE
24. 4 # OF FIELD FLUSH CONNECTIONS
25. 6.4 GPM FIELD FLUSH FLOW RATE
26. 12.9 GPM TOTAL FLOW REQUIRED
- ZONE THREE
28.      TOTAL ABSORPTION AREA
29. 1200 LINEAR FEET DRIPPER LINE
30. 300 LONGEST LATERAL LENGTH
31. 6.5 GPM DOSING FLOW RATE
32. 4 # OF FIELD FLUSH CONNECTIONS
33. 6.4 GPM FIELD FLUSH FLOW RATE
34. 12.9 GPM TOTAL FLOW REQUIRED
- ZONE FOUR
35.      TOTAL ABSORPTION AREA
36.      LINEAR FEET DRIPPER LINE
37.      LONGEST LATERAL LENGTH
38.      GPM DOSING FLOW RATE
39.      # OF FIELD FLUSH CONNECTIONS
40.      GPM FIELD FLUSH FLOW RATE
41.      GPM TOTAL FLOW REQUIRED
- SYSTEM DESIGN
42. 13 GPM MAXIMUM DESIGN FLUSHING FLOW
43. 12 FT HD LOSS PERC-RITE UNIT
- DISCHARGE PIPE CALCULATION
44. 1/2 INCH DIA. DISCHARGE PIPE SIZE
45. 30 LENGTH DISCHARGE PIPE 80 EQUIVALENT LENGTH OF PIPE.
46. 6 FT. STATIC LIFT TO CENTRAL UNIT
47. 8 FT HD LOSS TOTAL DISCHARGE LINE @ MAX FLUSH FLOW #42 @ 13 GPM

FORCE MAIN SUPPLY LINE PIPE SIZE & LENGTH

ZONE	ONE	TWO	THREE	FOUR
48. PIPE SIZE	1"	1"	1"	1"
49. PIPE LENGTH	410	385	360	
50. FT LOSS	37	35	33	

RETURN FLUSH LINE SIZE

ZONE	ONE	TWO	THREE	FOUR
51. PIPE SIZE	1"	1"	1"	
52. PIPE LENGTH	500	478	460	
53. FT LOSS	13	12	12	

54. 30 FT HD LOSS TOTAL STATIC (VERTICAL) LIFT TO FIELD.  
TOTAL PRESSURE LOSS (ADD) 43,47,48-50,51-53,54,55)

ZONE	ONE	TWO	THREE	FOUR
55. FLUSHING FT	35'	35'	35'	
56. TOTAL LOSS	75'	72'	70'	

PUMP SIZING  
57. 75' FLUSH HD LOSS TOTAL @ 13 GPM ZONE 1 (HIGHEST FT HD)  
58. 115 BACKFLUSH HD LOSS @ 15 GPM @ 50PSI @ PERC RITE UNIT (INCLUDES 48-50)  
59. PUMP MODEL Zoeller E191  
60. 15 GPM @ 115 FT HD 230 VOLTS 1 PHASE 2 HP

TIME DOSING PER ZONE

ZONE	ONE	TWO	THREE	FOUR
61. GPM	6.5	6.5	6.5	
62. MIN/DOSE	10 1/4	10 1/4	10 1/4	
63. CYCLES	3	3	3	
64. GAL/DOSE	66 2/3	66 2/3	66 2/3	

65. 2" INCHES DRAWDOWN PER CYCLE.  
PUMP CHECK FOR RECIRCULATING SAND FILTER (\*IF USED\*)  
66. 10 TOTAL GPM RECIRCULATING SAND FILTER  
67. 10 FEET OF STATIC HEAD  
68. 1 INCHES DIAMETER SUPPLY PIPE  
69. 100' FEET OF EQUIVALENT LENGTH OF SUPPLY PIPE  
70. 75 FT TOTAL HEAD LOSS FOR FILTERS (ADD) 43,47,67,69,EMITTERS)  
71. (YES ( ) NO ) PUMP FOR DRIP FIELD IS OK FOR FILTERS  
72. 15 MINUTES      SECONDS DRAWDOWN TIME SAND FILTERS

AMERICAN MANUFACTURING COMPANY INC.  
5517 WELLINGTON ROAD, GAINESVILLE VA22065 PHONE: 703-754-0077

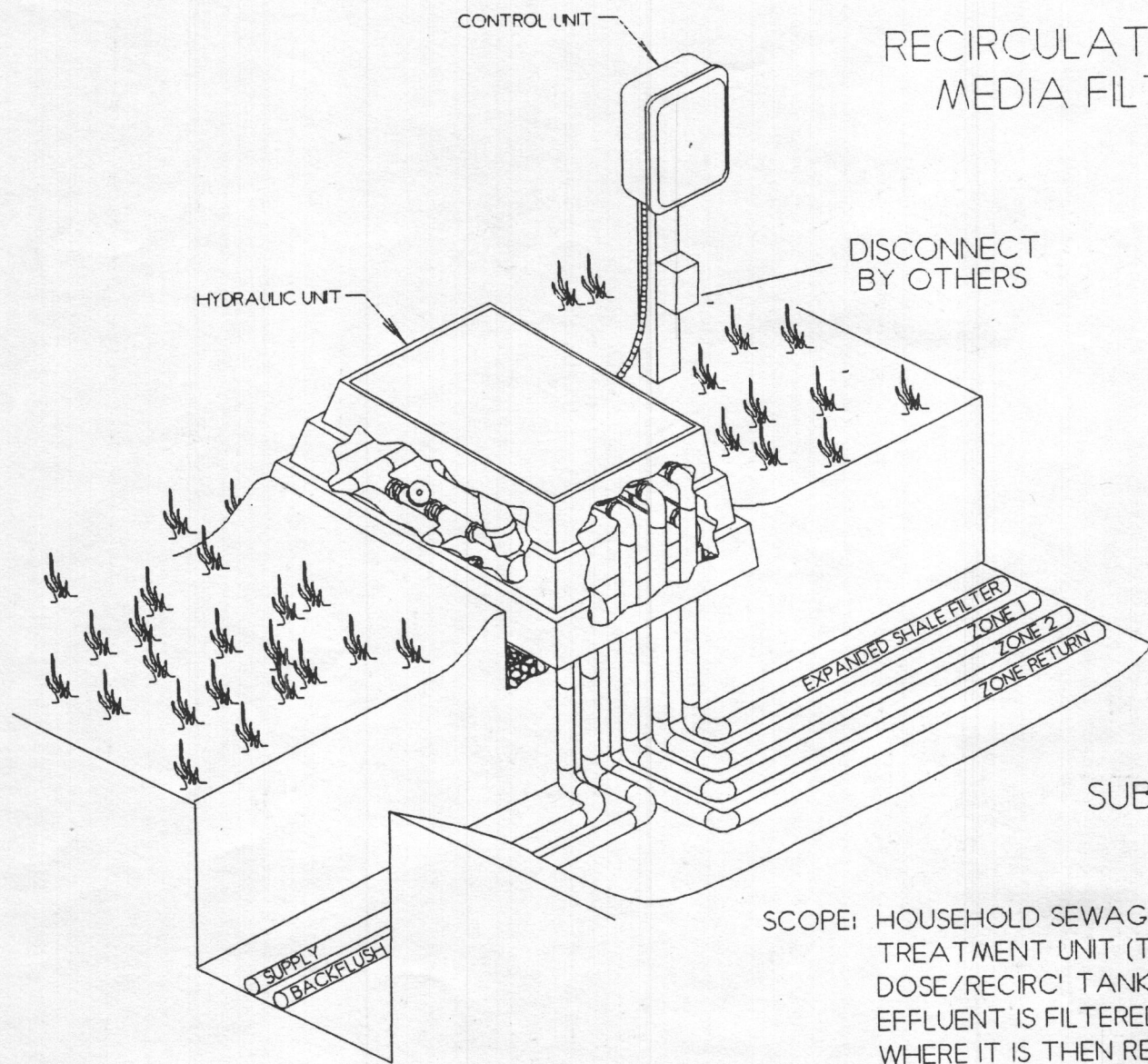
PROJECT NAME: <u>SCRANTON</u> <u>HCTM# 61615</u>	DRAFTER <u>JA</u> DATE <u>11/14/96</u>
COUNTY: <u>Howard Co. MD</u>	CHECKED DATE
DESIGNED BY: <u>T Ashton</u>	APPROVED DATE
FILE: <u>L\DATA\ECAD\PACKAGEDRIPS</u>	TITLE: <u>DETAIL &amp; CALCULATION SHEET</u>

18 MAR 97 REVISION SCALE: N/A SHEET 6 OF 6

# DRIP DISPOSAL SYSTEM

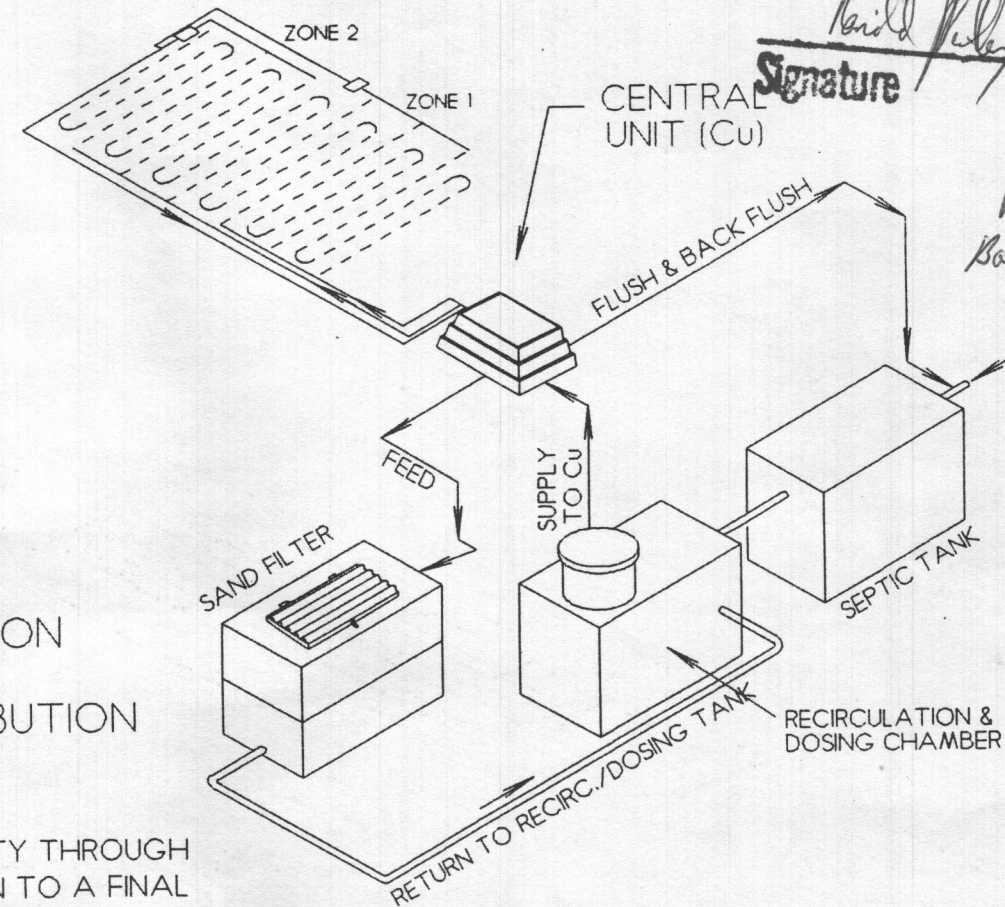
WITH  
RECIRCULATING EXPANDED SHALE  
MEDIA FILTER PRETREATMENT

Approved Septic System Plan  
Howard County Health Department



## UNIQUE FILTRATION AND SUBSURFACE DISTRIBUTION SYSTEM

SCOPE: HOUSEHOLD SEWAGE WILL FLOW BY GRAVITY THROUGH TREATMENT UNIT (TYP. SEPTIC TANK) THEN TO A FINAL DOSE/RECIRC' TANK. FROM THE DOSE/RECIRC' TANK THE EFFLUENT IS FILTERED THROUGH A EXPANDED SHALE FILTER WHERE IT IS THEN RETURNED TO THE DOSE/RECIRC' TANK FOR MIXING AND DISPOSAL. THE CENTRAL UNIT WILL DISPOSE OF THE EFFLUENT BY ALTERNATELY DOSING MULTIPLE ZONES IN THE SOIL ADSORPTION AREA. THE CENTRAL UNIT COMPRISES BOTH THE HYDRAULIC AND CONTROL UNITS.



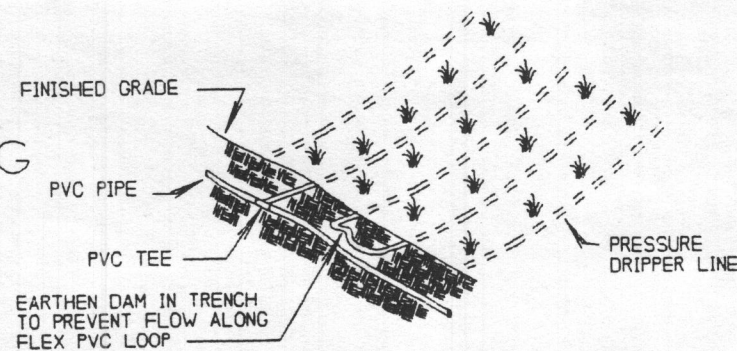
*David Poley*  
Signature  
12/20/96  
Date

Plan OK except  
Barry Glotfelty requires  
900gpm (double modular)  
sand filter as  
mentioned in plan  
PP 3/13/97

Revised Plans  
March 24, 1997  
contain larger sand filter  
requirements - use  
those plans PP 4/8/97

- INDEX
- SHT 1 COVER SHEET
  - SHT 2 SITE PLAN
  - SHT 2a ZONE DETAIL
  - SHT 3 PUMP DETAIL
  - SHT 4 HYDRAULIC PROFILE & RSF DETAIL & CALC.
  - SHT 5 CALCULATION SHEET
  - SHT 6 CONSTRUCTION DETAILS

## PRESSURE COMPENSATING "DRIP DISPOSAL"



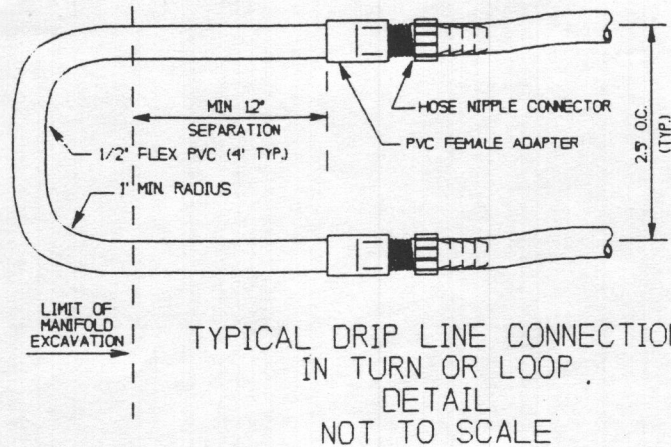
(DRIPPER LINE TO FOLLOW CONTOURS & PVC MANIFOLD PERPENDICULAR TO GRADE)

AMERICAN MANUFACTURING COMPANY INC.  
5517 WELLINGTON ROAD, GAINESVILLE VA 22065 PHONE :- 703-754-0077

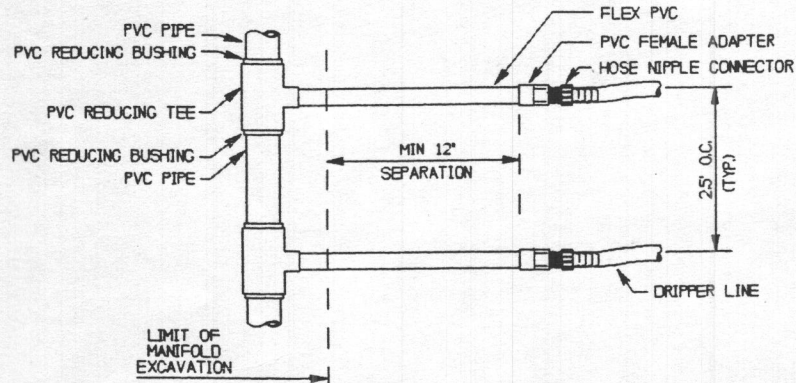
PROJECT NAME : SCRANTON HCLTM 6 / PO 15	DRAFTER	DATE
	CHECKED	DATE
	APPROVED <i>BAM</i>	DATE 11/14/96
COUNTY : Howard Co. MD	TITLE : COVER SHEET	
DESIGNED BY: T. Ashton		

REVISION FILE: RECADD\TEMPLAT\TEMPSHIS SCALE: NONE SHEET 1 OF 7

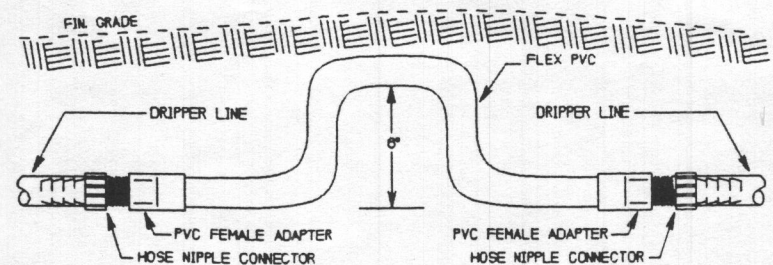
Sheets 2-6 contain  
same info as in  
Revised 3/17/97 Plan



TYPICAL DRIP LINE CONNECTION IN TURN OR LOOP  
DETAIL NOT TO SCALE

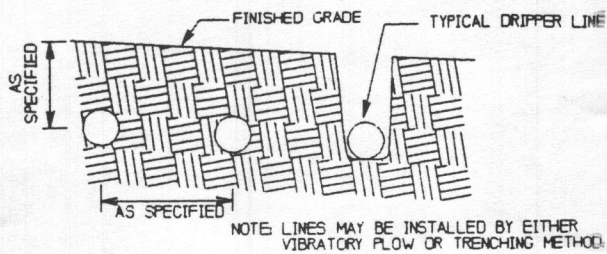


TYPICAL DRIP LINE CONNECTION TO PVC MANIFOLD  
DETAIL NOT TO SCALE  
(MAY VARY ACCORDING TO MANUFACTURER'S SPECIFICATIONS)

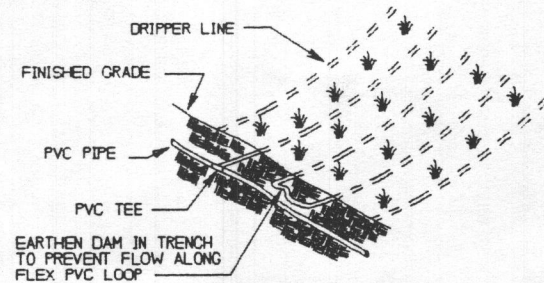


CONTOUR DAM  
DETAIL NOT TO SCALE

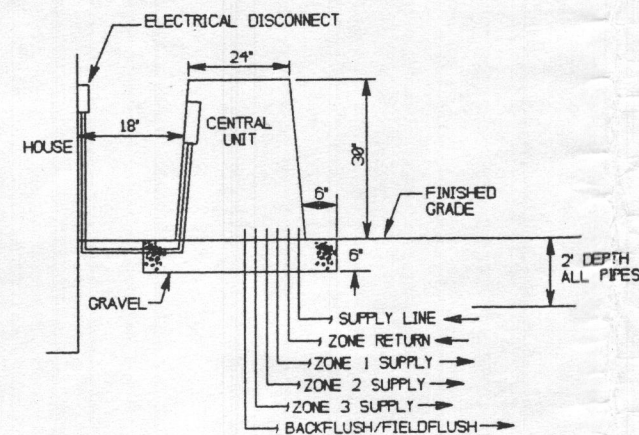
DRIP LINE LATERALS MUST BE PLACED ON CONTOUR WITHIN 1.5' OF ELEVATION DIFFERENCE ACROSS THE ENTIRE LATERAL. IN THE EVENT THE CONTOUR CHANGE ALONG THE LATERAL IS GREATER THAN 6" IN 50', CLAY WATER STOP DAMS SHALL BE INSTALLED IN THE LATERAL TO PREVENT WATER IN THE TRENCH FROM FOLLOWING THE PIPE DOWN THE SLOPE MORE THAN 50'.



DRIP DISPOSAL LINE INSTALLATION  
DETAIL NOT TO SCALE



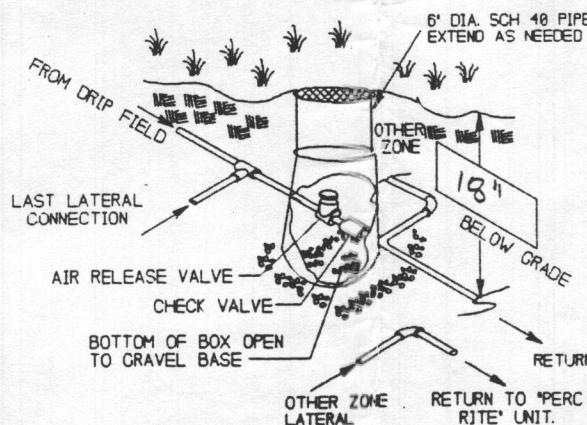
SECTION DETAIL  
NOT TO SCALE  
(DRIP LINE TO FOLLOW CONTOURS & PVC MANIFOLD PERPENDICULAR TO GRADE)



CENTRAL UNIT  
DETAIL NOT TO SCALE

AIR RELEASE & CHECK VALVE  
DETAIL

NOT TO SCALE



NOTE:  
1. THE AIR RELEASE VALVE SHALL BE PLACED AT THE HIGHEST POINT ON THE RETURN LINE OF EACH ZONE.  
2. EACH ZONE TO HAVE THE SAME VALVE BOX SETUP AND THEREAFTER CONNECTED.

### GENERAL NOTES DRIP DISPOSAL

1. ALL INSTALLATION AND CONSTRUCTION TECHNIQUES SHALL CONFORM TO COUNTY, STATE REGULATIONS, COMAR 26.04.02. SYSTEMS AND THE PERMIT FOR THIS SITE.
2. THE INSTALLATION OF THIS SYSTEM SHALL BE IN ACCORDANCE WITH SPECIFICATIONS AND PROCEDURES AS SUPPLIED BY THE MANUFACTURER OF THE EQUIPMENT.
3. ALL PVC PIPE AND FITTINGS SHALL BE PVC SCH 40 TYPE 1 RATED FOR PRESSURE APPLICATIONS. ALL GLUED JOINTS SHALL BE CLEANED AND PRIMED WITH PURPLE (DYED) PVC PRIMER PRIOR TO BEING GLUED.
4. ALL CUTTING OF PVC PIPE, FLEXIBLE PVC AND DRIPPER TUBING SHALL BE ACCOMPLISHED WITH PIPE CUTTERS APPROVED BY MANUFACTURER. NO SAWING OF PVC, PVC FLEXIBLE OR DRIPPER TUBING ALLOWED.
5. ALL PVC PIPE, FLEXIBLE PVC AND DRIPPER TUBING IN THE WORK AREA SHALL HAVE THE ENDS COVERED WITH DUCT TAPE TO PREVENT CONSTRUCTION DEBRIS FROM ENTERING THE PIPE. PRIOR TO GLUING ALL JOINTS SHALL BE INSPECTED FOR AND CLEARED OF ANY CONSTRUCTION DEBRIS.
6. NO WET WEATHER INSTALLATION IS PERMITTED.
7. NO ACTIVITY ON DRAINFIELD AREA OTHER THAN MINIMUM REQUIRED TO INSTALL SYSTEM. DO NOT PARK EQUIPMENT, DRIVE LARGE EQUIPMENT OVER, OR STORE MATERIALS ON DRAINFIELD SITE.
8. HORIZONTAL SPACING BETWEEN DRIPPER LINES AND THE INSTALLATION DEPTH SHALL BE AS SPECIFIED.
9. PRIOR TO STARTUP OF THE DRIP DISPOSAL SYSTEM THE AIR RELEASE VALVES SHALL BE REMOVED AND EACH ZONE IN THE SYSTEM SHALL BE FLUSHED AS FOLLOWS: a) USING AN APPROPRIATE LENGTH OF FLEXIBLE PVC PIPE WITH A MALE FITTING ATTACHED TO THE AIR RELEASE CONNECTION TO DIRECT THE FLUSHING WATER AWAY FROM THE CONSTRUCTION AREA. b) FLUSH THE ZONE WITH A VOLUME OF WATER (CLEAN WATER TO BE PROVIDED BY CONTRACTOR) EQUAL TO 1.5 TIMES THE VOLUME OF THE PIPES FROM THE CENTRAL UNIT TO THE AIR RELEASE VALVE. c) REPEAT THIS PROCEDURE FOR EACH ZONE (THE FLUSHING OF THE SYSTEM IS ACCOMPLISHED BY MANUAL OVERRIDE OF THE CONTROL PANEL BY THE MANUFACTURER OR ENGINEER.)
10. IF EXISTING SEPTIC TANKS ARE TO BE USED, THEY SHALL BE PUMPED OUT BY A COMMERCIAL SEPTIC TANK CLEANER. AFTER THE TANK IS EMPTIED IT SHALL BE RINSED, PUMPED AND REFILLED WITH CLEAN WATER. DEBRIS IN SEPTIC TANK MUST BE KEPT TO A MINIMUM AS IT COULD CLOG THE DISK FILTERS DURING START UP. AS DISK FILTERS ARE NOT BACKFLUSHED DURING STARTUP AND ANY CLOGGING COULD CAUSE INCORRECT FLOW RATE READINGS FOR THE CONTROLLER. IF UTILIZED SEPTIC TANKS MUST BE WATERTIGHT.
11. IF TREES ARE TO BE REMOVED FROM SITE, CUT STUMPS FLUSH WITH GROUND. REMOVE BY HAND.
12. GRAVEL BASE UNDER CENTRAL CONTROL UNIT IS TO BE DRAINED VIA 2" PVC PIPE, SCREENED AT INLET AND OUTLET, DISCHARGE TO BE AT GRADE DOWN SLOPE. (TO ENSURE DRAINAGE OF SURFACE WATER FROM UNIT)
13. THE CONTRACTOR SHALL BE CERTIFIED TO INSTALL THIS TYPE OF SYSTEM BY THE MANUFACTURER AND SHALL HOLD A PRECONSTRUCTION MEETING WITH THE INDIVIDUALS RESPONSIBLE FOR SOIL EVALUATION, PERMITTING AND INSPECTIONS PRIOR TO SITE WORK BEGINNING TO INSURE PROTECTION OF THE SITE CONDITIONS AND TO ENSURE THE SYSTEM IS INSTALLED ACCORDING TO DESIGN.
14. IF SITE CONDITIONS ARE DETERMINED TO REQUIRE THE INSTALLATION OF THE SYSTEM TO DEVIATE FROM THESE PLANS, ALL SITE WORK SHALL STOP IMMEDIATELY AND THE DESIGNER SHALL BE NOTIFIED. ANY ONGOING WORK SHALL BE AT THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
15. ULTRA SHALLOW PLACED DRIP TUBING, SHALL BE COVERED WITH 12"-18" ADDITIONAL COVER.
16. OPERATION AND MAINTAINANCE MANUAL TO BE PROVIDED AT JOB COMPLETION.
17. THE EXPANDED SHALE MEDIA FOR RECIRCULATING FILTER SHALL BE SUPPLIED BY: LEE HIGH PORTLAND CEMENT, DEPT. 810, ALEXANDRIA, VA, 22334.

Approved Septic System Plan  
Howard County Health Department

AMERICAN MANUFACTURING COMPANY INC.  
5517 WELLINGTON ROAD, GAINESVILLE VA 22065 PHONE: 703-754-0077

PROJECT NAME: *Screen* DATE: *12/20/96*

CHECKED: *[Signature]* DATE: *Date*

APPROVED: *[Signature]* DATE: *Date*

COUNTY: *Howard* TITLE: DRIP SYSTEM CONSTRUCTION DETAILS

DESIGNED BY: *TW Ashton*

REVISION FILE: R:\ECAD\TEMPLATE\TEMP\SH76 SCALE: NONE SHEET 8 OF 7

## Williams, Jeffrey

---

**From:** Williams, Jeffrey  
**Sent:** Friday, December 28, 2018 8:50 AM  
**To:** 'John Hieatzman'; Rob Scranton  
**Cc:** Wolf, Kevin; Collins, Sarah  
**Subject:** RE: 18950 Windsor Forest Rd

I will grant an extension to have the system installed and approved by **January 31, 2019**. It looks like in our file that we have a payment, but we don't have a permit issued. I will have a completed permit and a copy of the installation plan ready for someone from Fogles to pick up at our counter.

Please note that the system installation must be fully completed with the septic permit approved by **January 31, 2019**, no exceptions. If it is not complete by that date, we will issue citations to the owner starting on **February 1, 2019**. The alternative compliance for the owner is to remove all the plumbing in the barn for our inspection prior to January 31, 2019.

Jeff Williams  
Program Supervisor, Well & Septic Program  
Bureau of Environmental Health  
Howard County Health Dept.  
410-313-4261  
[jewilliams@howardcountymd.gov](mailto:jewilliams@howardcountymd.gov)

### CONFIDENTIALITY NOTICE

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-----Original Message-----

**From:** John Hieatzman [<mailto:john@foglesinc.com>]  
**Sent:** Thursday, December 27, 2018 3:18 PM  
**To:** Rob Scranton; Williams, Jeffrey  
**Subject:** RE: 18950 Windsor Forest Rd

[Note: This email originated from outside of the organization. Please only click on links or attachments if you know the sender.]

Hi Jeff,

Is it possible to give an extension for the date that the work is to be completed by? Based on our current backlog of work (some customers have been waiting 4-6 weeks) we would be looking at the end of January (weather pending). Please let me know if you need any more info.