

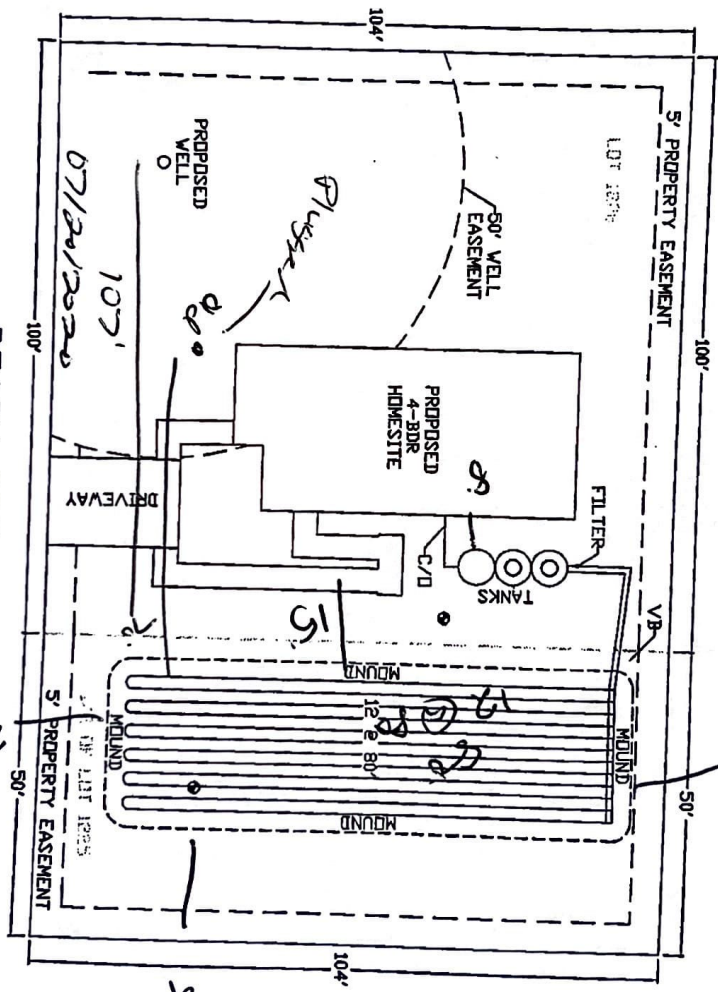
NO FLOODED HAZARD PER FIRM PANEL 600G

SLOPE PATTERN = FLAT

MOUNDDED DRIP  
18" MOUND, DRIP TUBING  
12 INCHES FROM NATURAL  
GROUND WITH 6 INCHES  
OF COVER

REVISION  
6-3-2020

MONTGOMERY COUNTY INTERPOSES NO  
OBJECTIONS PROVIDED THE SYSTEM IS  
INSTALLED IN ACCORDANCE WITH THESE PLANS.  
Permit # 172665-20 Initials MD Date 6-5-20  
Any changes to EQUIPMENT SPECIFIED or GPD will  
REQUIRE office APPROVAL PRIOR to INSPECTION.



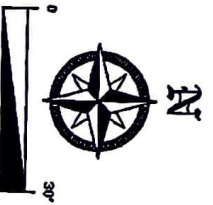
1920  
1729

CALCULATION SUMMARY,  
TOTAL NUMBER OF BEDROOMS: 4 ( UNDER 3,500 sqft )  
0 = 375 GPD.

APPLICATION RATE: 0.20 gal./sq.ft./DAY  
TOTAL DRIP AREA REQUIRED = 1,875 sq.ft. ( 937 lin.ft. )  
TOTAL DRIP AREA DESIGNED = 1,920 sq.ft. ( 960 lin.ft. )  
INSTALL 12 LINES AT 80' EACH = 960'  
960' / 2 = 480 EMITTERS  
480 X 0.90 GPH = 432 GPH DR 7.2 GPM  
375 GPD / 6 GPM = 62 MINUTES OF TOTAL PUMP RUN TIME  
SET TO DISE 3 TIMES A DAY ( ONCE EVERY 8 HOURS ) AT ABOUT 15 MIN. EACH  
INSTALL A 0.5 HP STA-RITE SUBMERSIBLE PUMP ( DR EQUIV. )  
DESIGN BASED ON FINDINGS BY SITE EVALUATOR

LEDGEND:  
TANKS = 500 gal. PRETREATMENT TANK  
500 G.P.D. AEROBIC TREATMENT UNIT  
750 gal. PUMP TANK W/ CHILDRENATOR

C/D = 2 WAY CLEAN-OUTS AT ALL STUB-OUTS FROM HOUSE  
1 WAY CLEAN-OUTS EVERY 50' AND AT EVERY 90°  
TURN IN DIRECTION  
---' = RADIAL DISTANCE INDICATED ABOVE  
● = BORE HOLE SITE



NAME: RAMIREZ RESIDENCE	SURVEY: CHRISTOPHER BRYAN	DESIGNER: BRANDI SAINZ / WANNECK
ADDRESS: 27665 PEACH CREEK DRIVE	ABSTRACT: 75	PHONE #: (936) 672-7025
CITY, STATE, ZIP: NEW CANEY, TX 77357	LOT: A DE 1225 & 1226	FAX #: (936) 273-9096
SUBDIVISION: PEACH CREEK FOREST	BLOCK: N/A	DATE: 05-22-2020
COUNTY: MONTGOMERY	SECTION: 6	SCALE: 1" = 30'





# SUNSHINE SEPTIC

P.O. Box 742  
Magnolia, Texas 77353  
281-789-4649  
sunshineseptictx@yahoo.com

## Scheduled Maintenance Inspection

Date: 8-4-22

Technician: Dominguez

### INSPECTED ITEMS

	Operational	Inoperative
Aerator/Compressor	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Diffuser(s)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Effluent Pump	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Recirculation Pump	<u>N/A</u>	<input type="checkbox"/>
Electrical Circuits	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Drip/Sprinklers	<input type="checkbox"/>	<input type="checkbox"/>
Chlorine <u>0</u>		pH <u>7.7</u>

Filters ✓

Sludge Level 8"

Additional Comments EL SISTEMA TRABAJA BIEN ✓



Permit #: 172665-20  
Old Permit #:



**CASST**

MONTGOMERY COUNTY HEALTH SERVICES  
ENVIRONMENTAL DIVISION  
**NOTICE OF APPROVAL**

Having been inspected by the Montgomery County Health Services and being found to comply with the minimum requirements of the State of Texas and Montgomery County Texas for On-Site Sewerage Facilities as amended, the licensee is hereby notified that the system is approved for operation and use.

Design By: Codi L. Waneck  
Installer: REY, THOMAS A.  
Site Address: 27665 PEACH CREEK DRIVE  
Legal Description: Subdivision: PEACH CREEK FOREST  
Section: 6 Block: Lot: 1/2 OF 1225 & 1226  
Max. Daily Flow: 375 GALLONS  
Type of System: DRIP EMITTERS  
Inspector Name: BRAND - PROFLO  
KEITH MILES DR 34488 ✓  
Date: 07.21.20

Signature  Date 07/29/2020  
OSSF Coordinator

Montgomery County Health Services - Environmental Division  
501 N Thompson Ste 101  
Conroe, Texas 77301  
(936) 539-7839 \* (281) 353-9791 ext. 7839  
[www.mctx.org](http://www.mctx.org)

MONTGOMERY COUNTY DEVELOPMENT PERMIT STRUCTURE

501 N Thompson Ste 100

Conroe, TX 77301

(936) 539-7836

PERMIT NO. 172665-20

HODGE/MASON # 28

CLERK JLR

CLASS A WITH SEPTIC

STATE OF TEXAS }  
COUNTY OF MONTGOMERY }

This notice confirms that this CLASS A WITH SEPTIC permit was issued to:  
Applicant: ENVIRONMENTAL RESOURCES Owner: RAMIREZ, NAIROBI  
on 28 MAY 20 in Montgomery County, Texas and is NONTRANSFERABLE. This permit  
authorizes the permittee to construct, install or make improvements to a  
R-SINGLE FAMILY HOUSE on the following described property:

Subdivision: PEACH CREEK FOREST

Section: 6 Block: Lot(s): 1/2 OF 122

Address : 27665 PEACH CREEK DRIVE, NEW CANEY, TX 77357

REQUIRED CULVERT SIZE: FLOOD INSURANCE ZONE: X

FLOODPLAIN DETERMINATION IS FOR PERMITTING PURPOSES. OFFICIAL  
DETERMINATIONS ARE MADE FEMA.

Application for this permit has been reviewed by the Permit Office  
and it has been determined that the property where construction and/  
or improvements will be made is above the base flood elevation. The permittee  
is therefore, authorized to proceed with the development.

Prior to beginning work, a copy of the permit  
must be posted at the location where it can be viewed from the nearest road.  
It must be protected from the weather and secure from vandalism and will  
remain posted until construction is completed. Montgomery County recommends  
finished floor/slab be constructed 12 inches above natural ground.  
Permit expires if construction does not begin within 180 days.

Phil D. Jones, CFM  
Manager Permits

Notes:

The requirements for the onsite sewage facility are based on the site  
evaluation performed by SAINZ, JOHN on 22 MAY 2020.

Ground water encountered: Y. Soil: III  
Acres 1456 Sq. Ft. of Living Area 4 No. of Bedrooms  
.20 Application Rate PRIVATE WELL

MINIMUM REQUIREMENTS:

1. Total capacity of Tanks in Gallons: 1250 Gallons. Max GPD :375  
TOTAL SQUARE FOOTAGE TRENCH BOTTOM REQUIRED: 1875 SQ. FT.
2. System Type: DRIP EMITTERS Designed By: Codi L. Waneck  
The construction, installation or substantial modification of a private  
sewage facility shall be made in accordance with the approved design and  
requirements of the Permit to Construct.
3. ANY CHANGES TO EQUIPMENT SPECIFIED OR GPD WILL REQUIRE OFFICE APPROVAL  
PRIOR TO INSPECTION  
MAINT. AGREEMENT REQUIRED PRIOR TO INSPECTION. FAX 936-788-8388

NOTE: Authorization to construct Septic System expires: 28 MAY 2021  
Re-application will be required if septic system has not been installed by the  
above date. Licensed installer or apprentice must be on site for inspection.

Approved by *Lyfa Dalhaus AR 29143* Date: *6-5-20*

NOTE REGARDING SEPTIC SYSTEMS: This Development Permit is an authorization to  
CONSTRUCT a septic system. In order to obtain a NOTICE OF APPROVAL for this  
septic system, a final inspection and approval by the Montgomery County  
Environmental Health Department will be required.



MONTGOMERY COUNTY DEVELOPMENT PERMIT STRUCTURE  
501 N Thompson Ste 100  
Conroe, TX 77301  
(936) 539-7836

CLASS A WITH SEPTIC

PERMIT NO. 141363-16  
HODGE/MASON # 28.6  
CLERK TG

STATE OF TEXAS }  
COUNTY OF MONTGOMERY }

This notice confirms that this CLASS A WITH SEPTIC permit was issued to:  
Applicant: RAMIREZ, NAIROBI A. Owner: RAMIREZ, NAIROBI A.  
on 26 FEB 16 in Montgomery County, Texas and is NONTRANSFERABLE. This permit  
authorizes the permittee to construct, install or make improvements to a  
R-SINGLE FAMILY HOUSE on the following described property:

Subdivision: PEACH CREEK FOREST  
Section: 6 Block: Lot(s): 1225A-1226  
Address : 27655 PEACH CREEK, NEW CANEY, TX 77357

REQUIRED CULVERT SIZE: FLOOD INSURANCE ZONE: X  
FLOODPLAIN DETERMINATION IS FOR PERMITTING PURPOSES. OFFICIAL  
DETERMINATIONS ARE MADE FEMA.

Application for this permit has been reviewed by the Permit Office  
and it has been determined that the property where construction and/  
or improvements will be made is above the base flood elevation. The permittee  
is therefore, authorized to proceed with the development.  
Prior to beginning work, a copy of the permit  
must be posted at the location where it can be viewed from the nearest road.  
It must be protected from the weather and secure from vandalism and will  
remain posted until construction is completed. Montgomery County recommends  
finished floor/slab be constructed 12 inches above natural ground.  
Permit expires if construction does not begin within 180 days.

*Phil D. Jones*  
Phil D. Jones, CFM  
Manager Permits

Notes:

The requirements for the onsite sewage facility are based on the site  
evaluation performed by STEPHANIE STURMAN on 01 DEC 2015.

Ground water encountered: Y. Soil: II  
Acres 910 Sq. Ft. of Living Area 3 No. of Bedrooms  
.25 Application Rate PRIVATE WELL

MINIMUM REQUIREMENTS:

1. Total capacity of Tanks in Gallons: 1000 Gallons. Max GPD :300  
TOTAL SQUARE FOOTAGE TRENCH BOTTOM REQUIRED: 1200 SQ. FT.
2. System Type: DRIP EMITTERS Designed By: STURMAN, STEPHANIE L.  
The construction, installation or substantial modification of a private  
sewage facility shall be made in accordance with the approved design and  
requirements of the Permit to Construct.
3. ANY CHANGES TO EQUIPMENT SPECIFIED OR GPD WILL REQUIRE OFFICE APPROVAL  
PRIOR TO INSPECTION  
MAINT. AGREEMENT REQUIRED PRIOR TO INSPECTION. FAX 936-788-8388

NOTE: Authorization to construct Septic System expires: 25 FEB 2017  
Re-application will be required if septic system has not been installed by the  
above date. Licensed installer or apprentice must be on site for inspection.

Approved by *Yifa Dalhaus DL 29143* . Date: *3-1-16*

NOTE REGARDING SEPTIC SYSTEMS: This Development Permit is an authorization to  
CONSTRUCT a septic system. In order to obtain a NOTICE OF APPROVAL for this  
septic system, a final inspection and approval by the Montgomery County  
Environmental Health Department will be required.



MONTGOMERY COUNTY DEVELOPMENT PERMIT STRUCTURE  
501 N Thompson Ste 100  
Conroe, TX 77301  
(936) 539-7836

CLASS A WITH SEPTIC

PERMIT NO. 141363-16  
HODGE/MASON # 28.6  
CLERK TG

STATE OF TEXAS }  
COUNTY OF MONTGOMERY }

This notice confirms that this CLASS A WITH SEPTIC permit was issued to:  
Applicant: RAMIREZ, NAIROBI A. Owner: RAMIREZ, NAIROBI A.  
on 26 FEB 16 in Montgomery County, Texas and is NONTRANSFERABLE. This permit  
authorizes the permittee to construct, install or make improvements to a  
R-SINGLE FAMILY HOUSE on the following described property:

Subdivision: PEACH CREEK FOREST  
Section: 6 Block: Lot(s): 1225A-1226  
Address : 27655 PEACH CREEK, NEW CANEY, TX 77357

REQUIRED CULVERT SIZE: FLOOD INSURANCE ZONE: X  
FLOODPLAIN DETERMINATION IS FOR PERMITTING PURPOSES. OFFICIAL  
DETERMINATIONS ARE MADE FEMA.

POST THIS COPY

Application for this permit has been reviewed by the Permit Office  
and it has been determined that the property where construction and/  
or improvements will be made is above the base flood elevation. The permittee  
is therefore, authorized to proceed with the development.  
Prior to beginning work, a copy of the permit  
must be posted at the location where it can be viewed from the nearest road.  
It must be protected from the weather and secure from vandalism and will  
remain posted until construction is completed. Montgomery County recommends  
finished floor/slab be constructed 12 inches above natural ground.  
Permit expires if construction does not begin within 180 days.

*Phil D. Jones*  
Phil D. Jones, CFM  
Manager Permits

Notes:

The requirements for the onsite sewage facility are based on the site  
evaluation performed by STEPHANIE STURMAN on 01 DEC 2015.

Ground water encountered: Y. Soil: II  
Acres 910 Sq. Ft. of Living Area 3 No. of Bedrooms  
.25 Application Rate PRIVATE WELL

MINIMUM REQUIREMENTS:

1. Total capacity of Tanks in Gallons: 1000 Gallons. Max GPD :300  
TOTAL SQUARE FOOTAGE TRENCH BOTTOM REQUIRED: 1200 SQ. FT.
2. System Type: DRIP EMITTERS Designed By: STURMAN, STEPHANIE L.  
The construction, installation or substantial modification of a private  
sewage facility shall be made in accordance with the approved design and  
requirements of the Permit to Construct.
3. ANY CHANGES TO EQUIPMENT SPECIFIED OR GPD WILL REQUIRE OFFICE APPROVAL  
PRIOR TO INSPECTION  
MAINT. AGREEMENT REQUIRED PRIOR TO INSPECTION. FAX 936-788-8388

NOTE: Authorization to construct Septic System expires: 25 FEB 2017  
Re-application will be required if septic system has not been installed by the  
above date. Licensed installer or apprentice must be on site for inspection.

Approved by *Nyla Dalhaus DR 29143* Date: 3-1-16

NOTE REGARDING SEPTIC SYSTEMS: This Development Permit is an authorization to  
CONSTRUCT a septic system. In order to obtain a NOTICE OF APPROVAL for this  
septic system, a final inspection and approval by the Montgomery County  
Environmental Health Department will be required.



E. S. Designs  
P.O. Box 2282, League City, TX 77574  
832.876.2067

Basis for Design is the Texas Administrative Code (TAC), Title 30, Part 1, Chapter 285.

*The Ramirez Residence  
27665 Peach Creek St  
New Caney, TX 77357  
Peach Creek Forest 06  
Lots: 1225-A & 1226  
Acreage: .3615  
Montgomery County*

*Facility is a Proposed Residential Home  
With 910 Sq. Ft of air conditioned space.  
and 3 Bedrooms  
Rated Wastewater Flow is 300 Gallons Per Day*

*On Site Sewage Facility design is for DRIP IRRIGATION*

Attached is a design for an On-Site Sewage Facility (OSSF) to be located at the property described above utilizing drip irrigation as the means of effluent disposal. The OSSF is designed for 300 Gallons Per Day of normal household sewage, and any water usage over this amount invalidates this design. Changes in the design or installation must be discussed and approved by designer and the Authorized Agent prior to any construction of the OSSF. Due to many inherent variables in the installation/operation, as well as any unforeseen natural occurrences of an OSSF, **E. S. Designs** will not be held liable for any system malfunctions. The location of all structures, wells, OSSF components are proposed, unless otherwise noted at the time of this design. As Built drawings may be required if wells, tanks field or home location are different than shown here.



Stephanie L. Sturman R. S. No. 3664  
Texas Registered Professional Sanitarian



E. S. Designs  
P. O. Box 2282, League City, TX 77574  
832.876.2067

**ON-SITE SEWAGE FACILITY GENERAL NOTES**

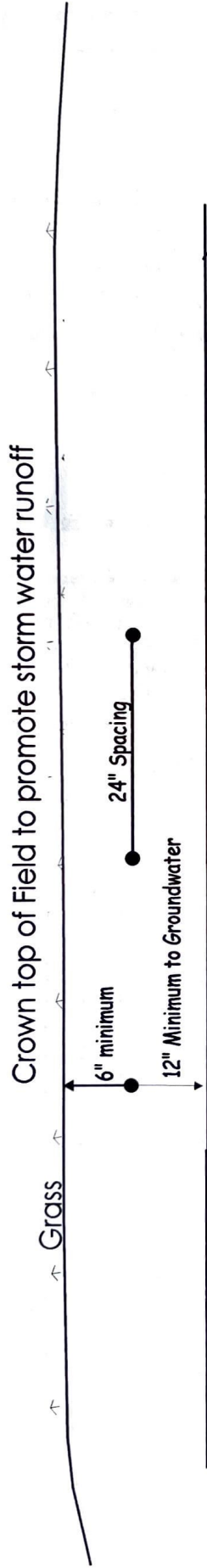
1. An on-site sewage facility (OSSF) license must be obtained from your Authorized Agent prior to installing any portion of this system.
2. Installations must be performed by a Registered OSSF Installer in the State of Texas.
3. No components of installation may be covered without the approval of the Authorized Agent.
4. If any discrepancies exist between this design and actual field conditions, it is the Installer's responsibility to contact the Designer and Authorized Agent prior to any construction to remedy the discrepancy.
5. Re-draw fees may apply.
6. This design meets the minimum standards set forth by the TCEQ, and is based on information provided with the site evaluation as well as usage conditions provided to designer. Designer assumes no responsibility as to accuracy of provided information.
7. Any water usage over permitted design will invalidate this design.
8. All construction materials and methods must be in accordance with state law. The Authorized Agent may impose more stringent requirements.
9. Disposal area shall be vegetated throughout the year and shall be graded to provide positive storm water runoff.
10. Designer does not guarantee that this OSSF will function in all conditions. Property owner/occupant should practice water conservation throughout the year. Also, property owner/occupant shall not dispose of non biodegradable materials, harsh chemicals, toxins or water softener discharge into this OSSF.
11. Based on my professional opinion, this system, if installed and operated in accordance with this plan, should not cause any nuisance conditions, threat of pollution or health hazards to the public or any existing/proposed water supply systems.
12. All underground utilities shall be located prior to construction. Call **Texas One Call at 1.800.245.4545** for line marking. Variances may be required by the utility provider if OSSF is to be located in their easement.
13. Pump tanks are sized to contain at least 1/3 daily wastewater (2/3 daily flow in Montgomery County) flow between the high water alarm activation and the pump tank inlet.
14. Any stub-outs not noted on plan shall be tied into main sewer line prior to pretreatment tank.
15. Dosing shall be controlled by a commercial timer capable of minute increments.
16. Pump tank shall be equipped with an audible and visible high water alarm, & must be installed on a separate circuit from the pump.
17. Drip irrigation OSSF's will require a vacuum breaker placed at the high point in each disposal field.
18. Drip irrigation OSSF's will require a 100 micron filter, or equivalent.
19. Drip irrigation OSSF's with continuous flushing may have return line directed to pump tank, intermittent flushing must return back to pretreatment tank.
20. Electrical wiring must conform to the National Electric Code (1999), must be in approved electrical conduit, buried and must terminate at a main/sub breaker panel. Electrical connections are to be made in approved junction boxes with a disconnect in direct vision of device being serviced that is weatherproof and has a lock-out provision [TAC 285.34 (c)].
21. A Maintenance Contract shall be in effect for the life of the system.
22. Contact your local Authorized Agent for any local requirements or guidelines related to your septic system.





# Cross Section of Drip Emmitter

Not to Scale



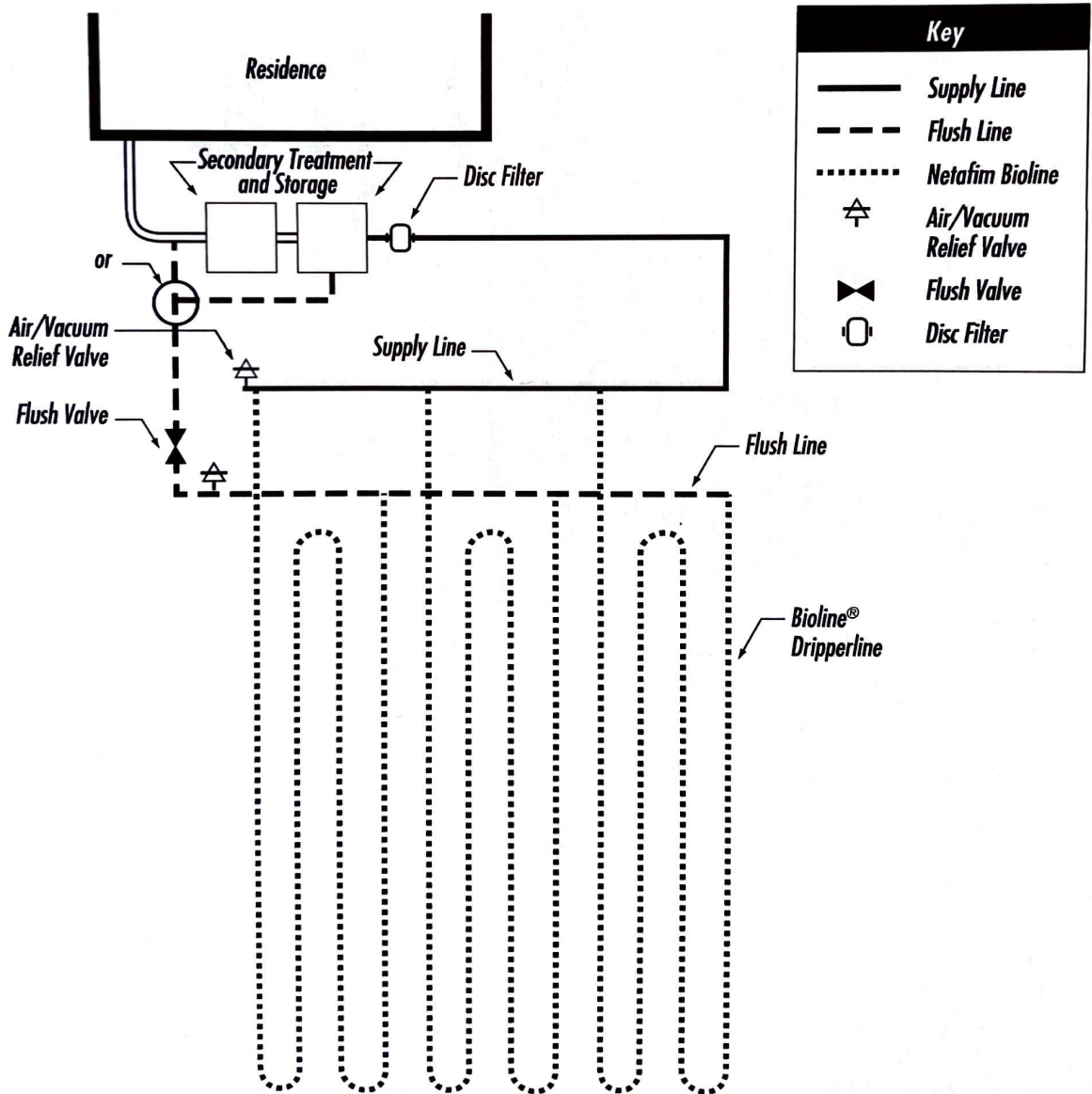


# WASTEWATER REUSE AND DRIP DISPERSAL GUIDE

## SINGLE TRENCH LAYOUT

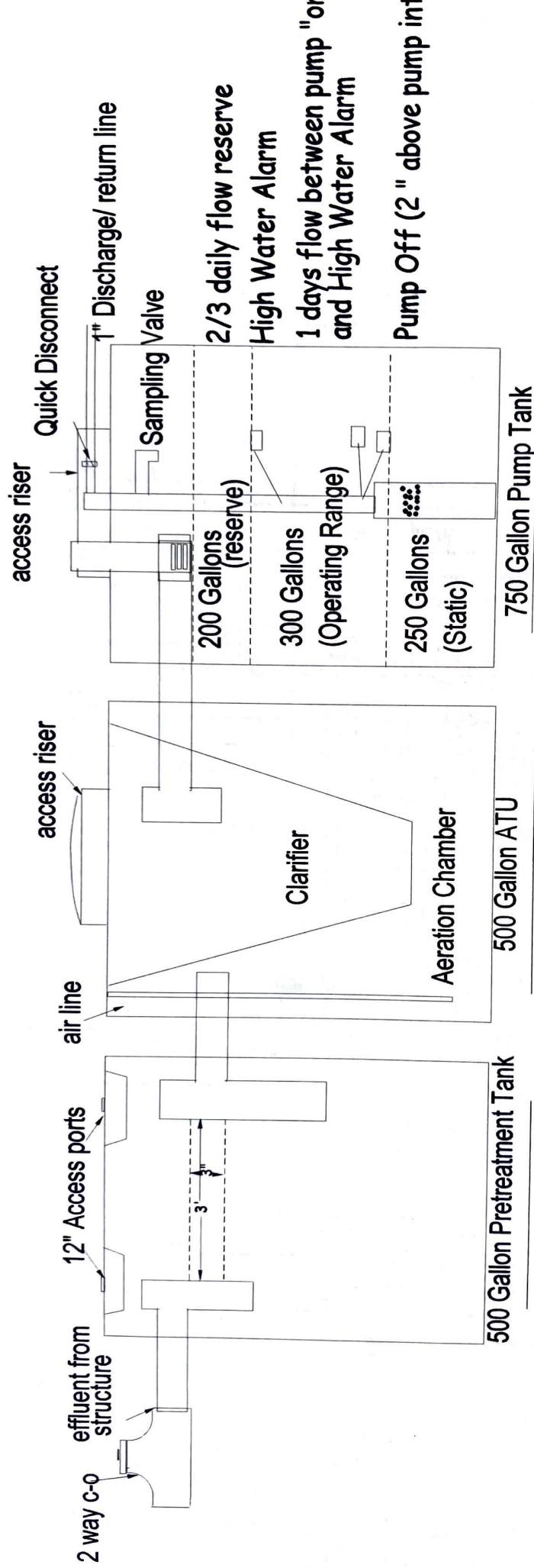
Rectangular field with supply and flush manifolds on the same side and in the same trench:

- Locate the supply and flush manifolds in the same trench
- Dripperlines are looped at the halfway point of their run and returned to flush manifold
- Bioline® laterals should never exceed recommended lengths



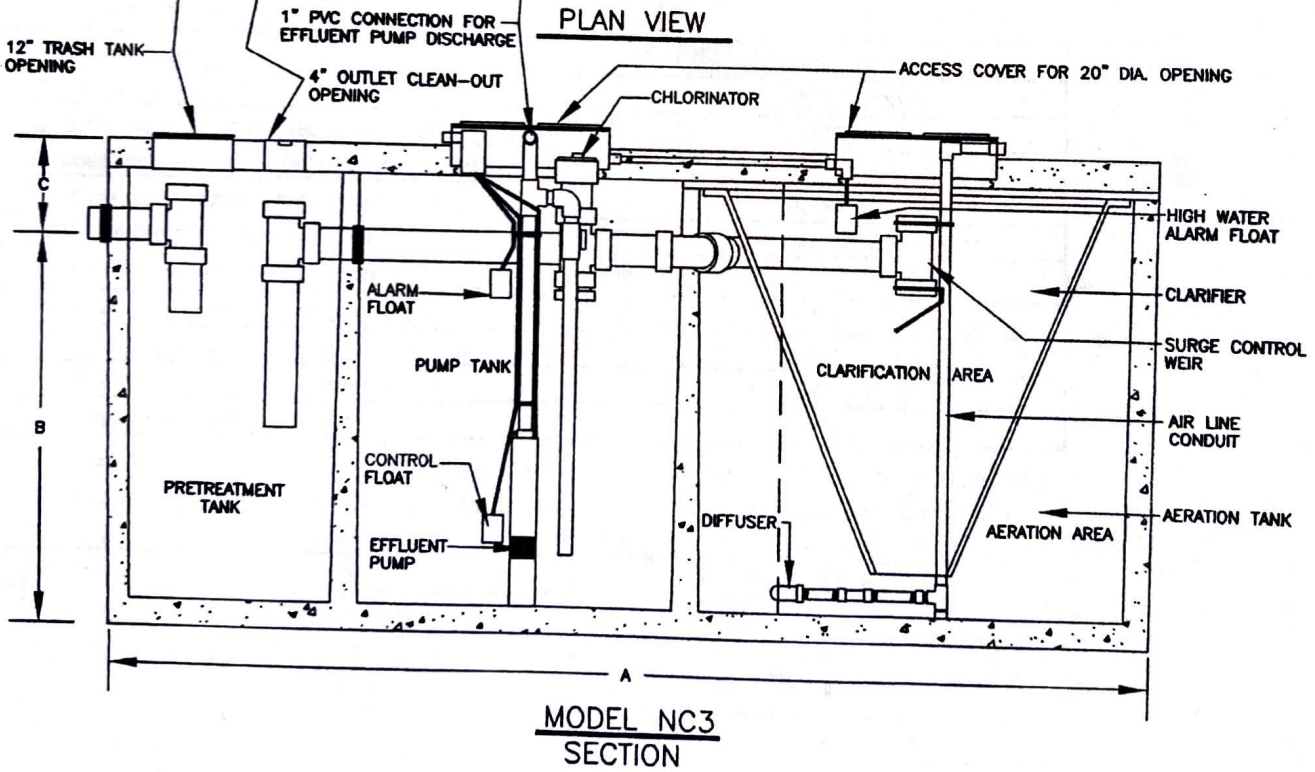
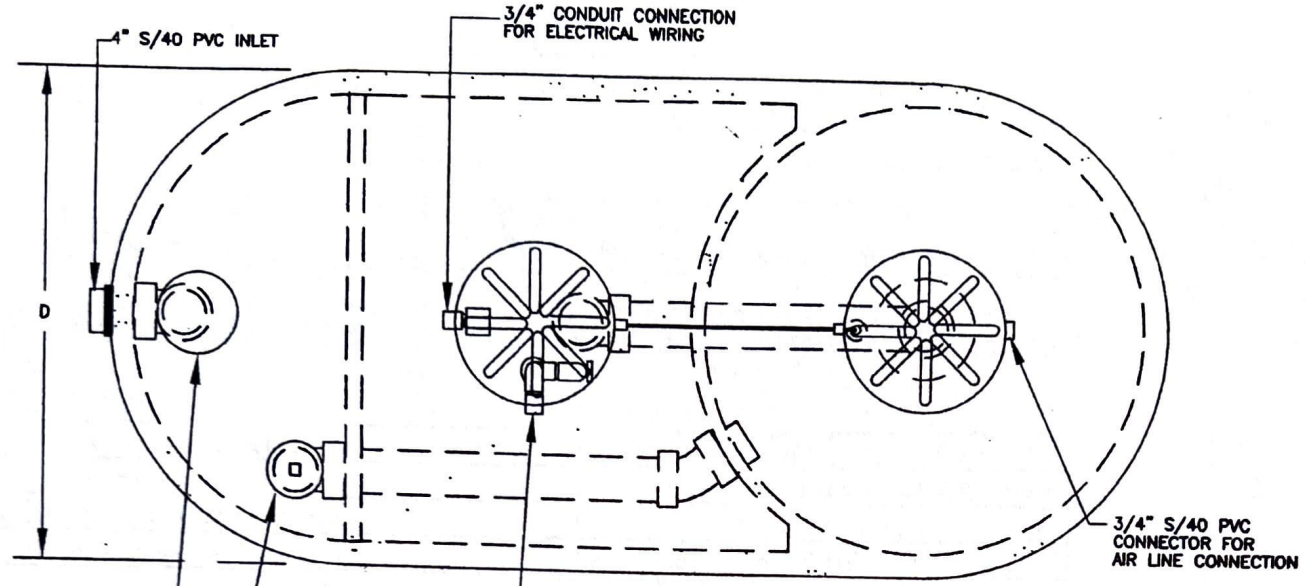


# Tank Flow Diagram Not to Scale





# DESIGN DRAWINGS



## DIMENSIONAL DATA

MODEL	A	B	C	D
<del>500</del>	12'-2"	60"	10"	75"
500NC3-750	13'-5"	60"	10"	75"
<del>500NC3</del>	12'-7"	60"	10"	82"

## FIELD FLOW

Job Description:	27665 Peach Creek
Contact:	Ramirez
Prepared by:	S Sturman
Date:	Dec. 2015

Please fill in the shaded areas and drop down menus:

This spreadsheet is a guide for small systems with residential waste & is not a complete

### Worksheet 1- Field Flow

#### Total field

Total Quantity of effluent to be disposed per day	300	gallons / day
Hydraulic loading rate	0.25	gallons / sq.ft. / day
Minimum Dispersal Field Area	1,200	square ft.
Total Dispersal Field Area	1,200	square ft.

#### Flow per zone

Number of Zones	1	zone(s)
Dispersal area per zone	1,200	square ft.
Choose line spacing between WASTEFLOW lines	2	ft.
Choose emitter spacing between WASTEFLOW emitters	2	ft.
Total linear ft. per zone (minimum required)	600	ft. per zone
Total number of emitters per zone	300	emitters per zone
Select Wasteflow dripline (16mm)	Wasteflow PC - 1 gph	dripline
Pressure at the beginning of the dripfield	30	psi
Feet of Head at the beginning of the dripfield	69.3	ft.
What is the flow rate per emitter in gph?	1.02	gph
Dose flow per zone	5.10	gpm

Note: A few States or Counties require additional flow for flushing. Please check your local regulations.

Flush velocity calculation below is for PC dripline. Classic dripline requires less flow to flush than PC.

Please refer to Geoflow's spreadsheet "Design Flow and Flush Curves" at [www.geoflow.com](http://www.geoflow.com) or call 800-4

If required, choose flush velocity	2	ft/sec
How many lines of WASTEFLOW per zone?	4	lines
Fill in the actual length of longest dripline lateral	150	ft.
Flush flow required at the end of each dripline	1.48	gpm
Total Flow required to achieve flushing velocity	5.92	gpm
Total Flow per zone- worst case scenario	11.02	gpm

#### Select Filters and zone valves

Select Filter Type	Vortex Screen Filter	
Recommended Filter (item no.)	AP4E-1F	in Screen Filter 0-20gpm
Select Zone Valve Type	None	-
Recommended Zone Valve (item no.)	0	0

#### Dosing

Number of doses per day / zone:	6	doses
Timer ON. Pump run time per dose/zone:	9.48	mins:secs
Timer OFF. Pump off time between doses	3:50	hrs:mins
Per Zone - Pump run time per day/zone:	0:58	hrs:mins
All Zones - Number of doses per day / all zones	6	doses / day



# PUMP SIZING

Project Description:	27665 Peach Creek
Contact:	Ramirez
Prepared by:	S Sturman
Date:	Dec. 2015

Please fill in the shaded areas and drop down menus:

This spreadsheet is a guide for small systems with residential waste & is not a complete design. Pressure losses may be grossly overstated, particularly if designing with WASTEFLO. The letters on the diagram(right) match the letters in section 2 below.

## Worksheet - Pump Sizing

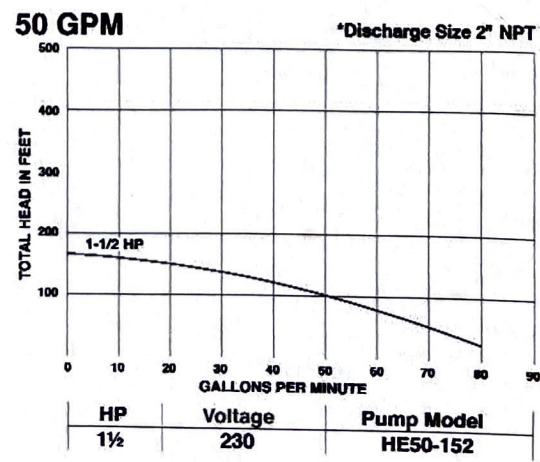
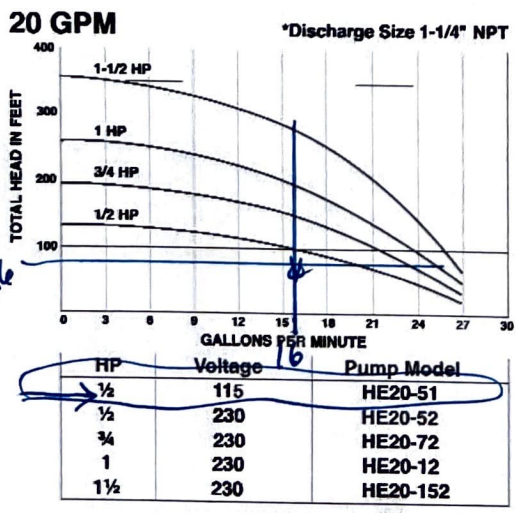
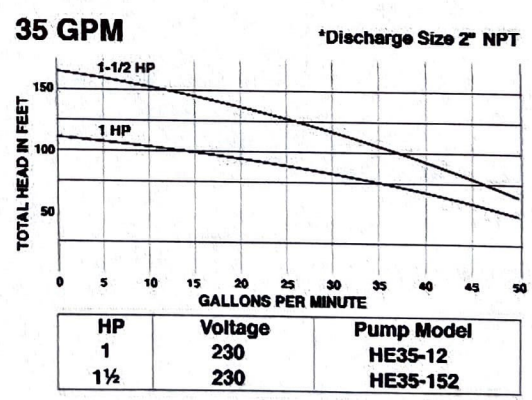
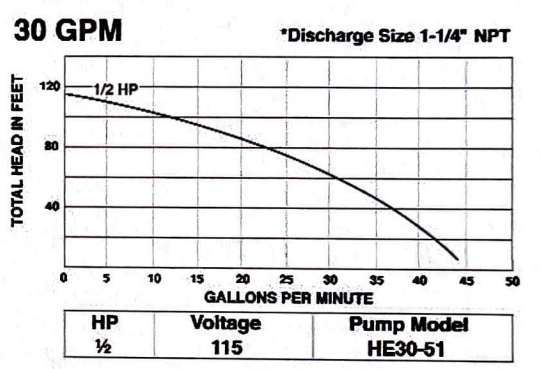
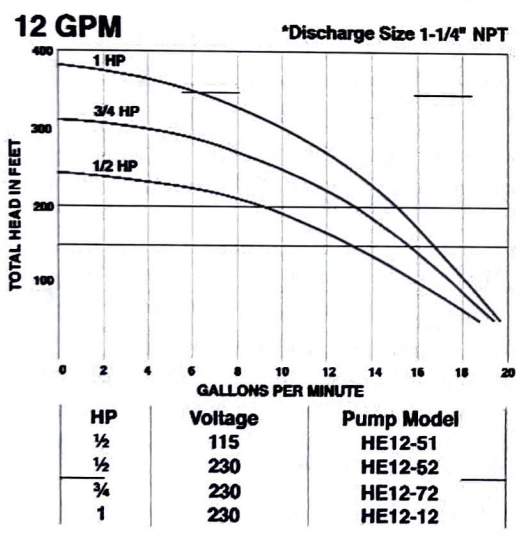
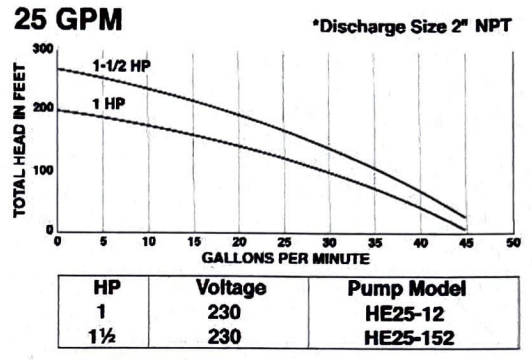
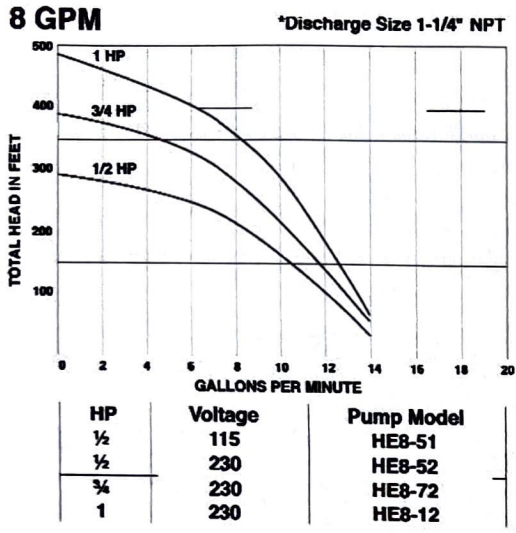
### Section 1 - Summary from Worksheet 1

Flow required to dose field	5.10	gpm
Flow required to flush field	5.92	gpm
Flow required to dose & flush field	11.02	gpm
Filter	AP4E-1F	
No. of Zones	1	zones
Zone valve	-	
Dripline	Wasteflow PC - 1 gph	
Dripline longest lateral	150.00	ft.

Section 2	Ft of head	Pressure
<b>A. Flush line - Losses through return line</b>		
Select Pipe from dropdown menu	PVC schedule 40	
Select Flush Line Diameter	1" inch	
Length of return line	25 ft.	
Equivalent length of fittings	5 ft.	
Elevation change. (if downhill enter 0)	8 ft.	
Pressure loss in 100 ft of pipe	2.38 ft.	1.03 psi
<b>Total pressure loss from end of dripline to return tank</b>	<b>8.7 ft.</b>	<b>3.77 psi</b>
<b>B. Dripline - Losses through Wasteflow dripline</b>		
Length of longest dripline lateral	150 ft.	
Minimum dosing pressure required at end of dripline	23.10 ft.	10.00 psi
Loss through dripline during flushing	4.13 ft.	1.79 psi
<b>Total minimum required dripline pressure</b>	<b>27.23 ft.</b>	<b>11.79 psi</b>
<b>A+B. Minimum Pressure required at beginning of dripfield</b>		
<b>CALCULATED</b> pressure required at beginning of dripline	35.95 ft.	15.56 psi
<b>SPECIFIED</b> pressure at beginning of dripfield (from )	69.3 ft.	30.00 psi
Great! SPECIFIED Pressure is greater than CALCULATED Pressure requirement. Go to next step		
<b>C. Drip components - Losses through headworks</b>		
Filter	2.0 ft.	uhoh psi
Zone valve pressure loss (not in diagram)	- ft.	- psi
Flow meter pressure loss (not in diagram)	1.00 ft.	0.43 psi
Other pressure losses	1.00 ft.	0.43 psi
<b>Total loss through drip components</b>	<b>4.00 ft.</b>	<b>0.87 psi</b>
<b>D. Supply line - Minimum Pressure head required to get from pump tank to top of dripfield</b>		
Select Pipe from dropdown menu	PVC schedule 40	
Select Supply line diameter	1" inch	
Length of supply line	25 ft.	
Equivalent length of fittings	5 ft.	
Height from pump to tank outlet	5 ft.	
Elevation change. (if downhill enter 0)	-8 ft.	
Pressure loss/gain in 100 ft. of pipe	7.54 ft.	3.26 psi
<b>Total gain or loss from pump to field</b>	<b>(0.7) ft.</b>	<b>(0.32) psi</b>
<b>Total dynamic head</b>	<b>72.6 ft.</b>	<b>31.41 psi</b>
<b>Pump capacity * - Field Flush Flow</b>	<b>11.0 gpm</b>	<b>31.41 psi</b>
- Field Dose Flow	5.1 gpm	
- Filter Flush Flow	- gpm	- psi
<b>Pump Model Number</b>	<b>HE 20-51 or equiv.</b>	
<b>Voltz / Hp / phase</b>	<b>1/2 hp</b>	

\* Note: Pump capacity flow assumes flow in dripline does not change during a dose cycle. With Wasteflow Class 200 for more accurate flows please see Geoflow's **Flushing worksheet**.  
If you need assistance designing for this additional flow, please  
a. See Geoflow flushing worksheet or  
b. Contact Geoflow at 800-828-3388.

# Performance Curves





Lot or tract No. West 1/2 of 1225  
of PEACH CREEK FOREST, SECTION 6, an unrecorded  
subdivision out of the Christopher Bryan Survey, Abstract 75, Montgomery  
County, Texas, being more particularly described by field notes in deed re-  
corded in Volume 700, Page 29 of the Deed Records of  
Montgomery County, Texas, and being more particularly described as follows:

All that certain tract or parcel of land located in the Christopher  
Bryan Survey, Abstract 75, Montgomery County, Texas, and being out  
of a 325 acre tract described in Vol. 700, Page 29, Deed Records of  
Montgomery County, Texas; said tract being known as the West 1/2 of  
lot 1225 of PEACH CREEK FOREST, SECTION 6, an unrecorded subdivision  
and being more particularly described by metes and bounds as follows,  
to-wit:

BEGINNING at a point in the north property line of the aforementioned  
325 acre tract 1827.32 feet from the northeast corner;

HENCE S 00 deg. 59 min. 05 sec. W along the east property line of  
Broken Bough Land 117.30 feet to an iron rod;

HENCE S 89 deg. 00 min. 55 sec. E along the north property line of  
Peach Creek Drive 1488.32 feet to an iron rod marking the southwest  
corner of Lot 1225 and being the POINT OF BEGINNING of the property  
herein described;

HENCE N 00 deg. 59 min. 05 sec. E 104.82 feet to an iron rod for  
corner;

HENCE S 88 deg. 31 min. 57 sec. E 50 feet to an iron rod for corner;

HENCE S 00 deg. 59 min. 05 sec. W 104.40 feet to an iron rod for  
corner;

HENCE N 89 deg. 00 min. 55 sec. W along the north property line of  
Peach Creek Drive 50 feet to the place of beginning and containing  
1985 acres of land.



Lot No.

1226

of PEACH CREEK FOREST, SECTION SIX, an unrecorded subdivision out of a 325.74 acre tract in the Christopher Bryan Survey, Abstract 75, Montgomery County, Texas, being more particularly described by field notes in deed recorded in Volume 700, Page 29, of the Deed Records of Montgomery County, Texas, and said lot being more particularly described by metes and bounds as follows, to-wit:

BEGINNING at a point in the North Property Line 439 from the Northeast corner of the aforementioned tract point being the Northwest corner of Lot 1226 and the  
OF BEGINNING of the property herein described;

HENCE South 00 deg. 59 min. 05 sec. West 105.66 feet iron rod for corner;

HENCE South 89 deg. 00 min. 55 sec. East 100 feet along north property line of Peach Creek Drive to an iron rod corner;

HENCE North 00 deg. 59 min. 05 sec. East 104.82 feet iron rod for corner;

HENCE North 88 deg. 31 min. 57 sec. West 100 feet to place of beginning and containing 0.2416 acres of land.



### Design Specification Summary

Street Address	27665 Peach Creek St	Bedrooms (Actual)	3
Structure Type	Single Family Home	Bedrooms (Design)	3
Living Area	910 Sq. Ft.	Low Flow Fixtures	Yes
Total Square Feet	910 Sq. Ft.	Soil Type-Class	Class Ib/ II

### Drip Irrigation Absorption Area

Gallons Per Day	300 GPD	Alternating Valve	NO
Loading Rate	.25	Number of Zones	ONE
Lin. Ft/Sq. Ft Required	600' / 1200 SF	No. of Emitters	300 Emitters
Lin. Ft/Sq. Ft. Shown	600' / 1200 SF	Type of Tubing	Geoflow Wasteflow PC 1GPH or Equiv.
Minutes of Dosing	58-60 Minutes	Filter	100 Micron

### Equipment Specifications (EQUIVALENT COMPONENTS MAY BE USED)

COMPONENT	SIZE REQUIRED (GAL)	SIZE ACTUAL (GAL)	MODEL NAME & NUMBER
Pretreatment Tank	500 Gallon	500 Gallon	Clearwater 500 NC3T
Dosing Tank	N-A	N-A	N-A
Aerobic Treatment Unit	500 Gallon	600 Gallon	Clearwater 500 NC3T
Pump Tank	750 Gallon	750 Gallon	Clearwater 500 NC3T
Timer	Capable of minute increments	Capable of minute increments	Omron Minute timer
Pump	1/2 hp	1/2 hp	Hydromatic HE 20-51 1/2hp
Disinfection Unit	N-A	N-A	N-A
Distribution Piping	1 inch Schedule 40	1 inch Schedule 40	1 inch Schedule 40

### Landscape Plan

1. The On-Site Sewage Facility Disposal area shall be capable of vegetative growth at system start-up.
2. The disposal area shall have vegetation of native grasses, St. Augustine, Bermuda or Zoysia throughout the year, over-seeding with winter grasses may be necessary in dormant growing seasons. Shaded areas may require shade grasses.
3. No edible crops shall be grown in disposal area.
4. Disposal area shall be graded smooth to allow for positive storm water runoff.
5. The disposal area should be mowed to allow sunlight to reach the ground surface.

#### NOTES:

1. THIS DESIGN IS DESIGNED FOR Geoflow 1 GPH, PRESSURE COMPENSATING EMITTERS. ANY ALTERNATIVE TUBING MUST BE EQUIVALENT.
2. ELECTRICAL WIRING MUST BE RATED FOR OUTDOOR & UNDERGROUND USE (NO ROMEX WIRING)



The Ramirez Residence  
 27655 Peach Creek St  
 New Caney, TX 77357  
 Peach Creek Forest 06  
 Lots 1225-A & 1226  
 Acreage: .3615  
 Montgomery County

**Calculations:**  
 Proposed 3 bedroom home with ULF  
 fixtures & less than 2500 SF  
 Q: 300 Gallons Per Day  
 Loading Rate: .25  
 Drip Area Required: 1200 SF  
 Drip Area Shown: 1200 SF  
 (8 lines @ 75' long)

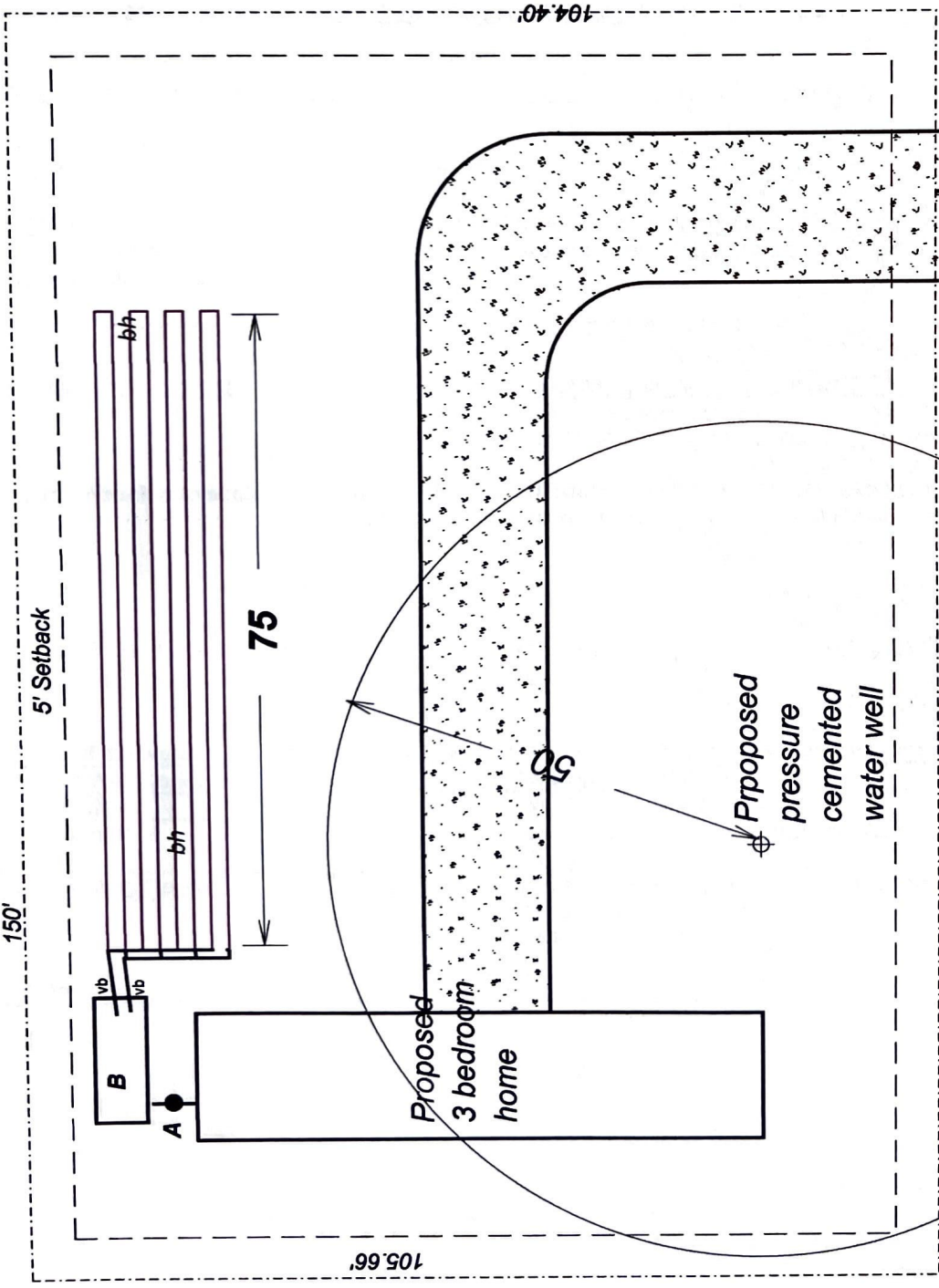
**Legend:**

- A: 4" SCH 40 PVC Sewer Pipe  
 & 4" SCH 40 PVC 2-Way Clean Out
- B: Septic Tank Battery  
 -500 Gallon Pretreatment tank  
 -500 Gallon Aerobic Treatment Unit  
 -750 Gallon Pump Tank
- Supply & Return Lines: 1" SCH 40 PVC
- vb: Vacuum Breakers
- bh: Bore Holes

**Dosing Schedule:**

Using Geoflow 1 GPH PC tubing,  
 Set timer to dose for 10-12 minutes "ON"  
 and 4 hours "OFF"

Provide Grass to drip field  
 immediately after installation



27655 Peach Creek St



SCALE: 1" = 20'

Slope: Less than 5%

Flood Plain Determination:  
 Site is NOT in the Flood Plain



**SITE EVALUATION**

**CLIENT: The Ramirez Residence ADDRESS: 27665 Peach Creek St, New Caney, TX 77357**

Subdivision: Peach Creek Forest 06 Lot: 1226 & 1225-A

Acres: .3615 Property Size: 105' x 150'

Structure to be served: Proposed 3 bedroom home with ULF fixtures & less than 2500 SF

**TOPOGRAPHY**

SLOPE:

Flat (under 2%): \_\_\_\_\_ Slight (Under 6%): (XXX) Severe (Over 30%): \_\_\_\_\_

VEGETATION:

Grass/ Brush: (XXX) Lightly Wooded: \_\_\_\_\_ Heavily Wooded: \_\_\_\_\_

SITE DRAINAGE:

Poor [ ] Adequate [ ] Good [ XXX ] Other [ ]

NOTE: If slope is severe, a topography survey with half-foot contours must be provided with this form on the design. If site drainage is poor or the slope is flat, then a detailed drainage plan must be provided on the design if a subsurface disposal system is proposed.

**FLOOD HAZARD**

PROPERTY IS LOCATED:

Outside 100-Year Flood Plain [ XXX ]  
 In 100-Year Flood Plain [ ]  
 In 100-Year Flood Plain and Flood Way [ ]

**NOTE: Attach a to scale portion of the FEMA Flood Insurance Rate Map (FIRM) with the extents of the construction site drawn to scale or a property survey with the current Flood Plain Determination.**

**WATER SUPPLY**

WATER SUPPLY IS: PUBLIC [ ] COMMUNITY [ ] PRIVATE [ XXX ]

**NOTE: If the water supply is a completed well on site, provide the following well information:**

Size of Well Casing	"	Sealing Block Present	
Year Drilled		Well House Protecting Well	
Depth of Well		Is a Well Log (Drilling Report) available (Attach Copy if Available)	
Cementing Depth		Are the Neighboring Wells within 100 feet of the property (If yes, they must be shown on the design.)	
Driller			



Address: 27665 Peach Creek St., New Caney, TX 77357

Date: Dec. 1, 2015

**OTHER SET BACKS**

Streams, Ponds, or Lakes within 75 feet of Property Line YES NO  
 Sharp Slopes, Breaks or Dry Ditches YES NO

**NOTE: If any of these exist or are proposed they must be shown on the design site plan.**

**SOIL EVALUATION**

A minimum of two soil samples must be performed on opposite sides of the proposed disposal area for all proposed OSSF construction sites to a depth of twenty-four inches (24") minimum below the proposed disposal depth or to a restrictive horizon if shallower. Test hole locations must be shown on the site plan. Describe soils textures using standard USDA Textural Descriptions.

**SOIL TEST ONE**

DEPTH	CLASS/TEXTURE	COLOR	RESTRICTIVE HORIZON	GRAVEL
0"- 18"	Class Ib, fine sand	Light brown	No	<10%
18"-24"	Class Ib/II, sandy Loam	Light Brown	NO	<5
24"-30"	Class II, silty loam	Light brown	Slight Mottling at 30'	<5%

**SOIL TEST TWO**

DEPTH	CLASS/TEXTURE	COLOR	RESTRICTIVE HORIZON	GRAVEL
0"- 18"	Class Ib, fine sand	Light brown	No	<10%
18"-24"	Class Ib/II, sandy Loam	Light Brown	NO	<5
24"-30"	Class II, silty loam	Light brown	Slight Mottling at 30'	<5%

NORMAL TEXTURES (USDA): COURSE SAND/GRAVEL, SAND, LOAMY SAND, SANDY LOAM, LOAM, SANDY CLAY LOAM, SANDY CLAY, CLAY LOAM, SILTY CLAY LOAM, SILTY LOAM, SILT, SILTY CLAY, OR CLAY

NORMAL STRUCTURES: MASSIVE, BLOCKY, PLATY, OR STRUCTURELESS









**Owner Information**  
 MIRANDA, HORTENCIO V & MYRA A  
 16944 E WEST LN CONROE, TX 77306-8013  
 Parcel Number: R137645

**Site Information**  
 7810-06-12260  
 Neighborhood: 41130.0  
 Description: PEACH CREEK FOREST 06, LOT 1226



Bryan Christopher

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