

LAKE COUNTY ENVIRONMENTAL HEALTH

106 FOURTH AVENUE EAST
POLSON, MT 59860-2175

PH: 406-883-7236 FAX: 406-883-7205
Email: envhealth@lakemt.gov

July 7, 2022

William A. Buxton, P.E.
Advanced Consulting Services, LLC
2096 Marina Court
Bigfork, Montana 59911

Re: Wastewater Treatment System Installation Permit #9630
Property Ownership: Christopher and Jennifer Chambers
Antique Farms Subdivision Lot 2 – 20.01 acres
Section 27, Township 23 North, Range 21 West P.M.M.

Mr. Buxton:

This department has reviewed the proposed design for the wastewater treatment system on the above-referenced property. Approval is granted for the installation of the wastewater treatment system contingent upon the following conditions:

1. Construction of the wastewater treatment system shall comply with the *Lot Layout and Drainfield Details* drawing sheet set dated May 2022, and the Technical Memorandum cover letter dated May 25, 2022 (William A. Buxton, P.E., Advanced Consulting Services, LLC, in association with consultant Robert C. Teaff).
2. Alteration of the approved plans must have prior written authorization from this Department.
3. The wastewater treatment system must be installed by a licensed Lake County wastewater treatment system installer.
4. Installed components must meet the minimum horizontal setback distances described in the Administrative Rules of Montana 17.36.918 – Table 1.
5. Prior to covering of the system, a joint inspection of the system must be made by this office and a representative of Advanced Consulting Services, LLC. This inspection must include a pump test.
6. After installation of the system, you or a representative must submit a drawing and a letter stating that the system was installed according to the approved plans and specifications.

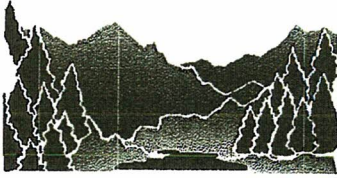
Please contact this department if you have any questions regarding this approval.

Sincerely,

Benedicta Bras
Sanitarian-In-Training

cc: Christopher R. and Jennifer J. Chambers, 407 Glenhurst Tree, Canton, GA 30115
Robert Teaff, 2103 Woodbine Way, Polson, MT 59860

LAKE COUNTY WASTEWATER TREATMENT SYSTEM (WWTS) PERMIT APPLICATION



FOR RECEIPTING ONLY:

PERMIT # 9630 APPLICATION DATE: MAY 25 2022
 CHECK # 124

4

LAKE COUNTY ENVIRONMENTAL HEALTH (LCEH)
 106 FOURTH AVENUE EAST
 POLSON, MT 59860

PH: 406-883-7236
 FAX: 406-883-7205
 EMAIL: envhealth@lakemt.gov

RETURN THE COMPLETED APPLICATION WITH THE APPROPRIATE FEE TO THE ABOVE ADDRESS.
 CHECKS MUST BE MADE PAYABLE TO L.C.E.H.

SELECT ONE OF THE FOLLOWING PERMIT TYPES:

- \$300— NEW INSTALLATION OR REPLACEMENT ***
- \$200— ALTERATION w/ NEW COMPONENTS**—— *PHYSICAL CHANGE TO THE EXISTING WWTS THAT ALTERS THE CHARACTERISTICS OF THE WWTS (E.G. CONNECTION TO MAIN/TANK/DRAINFIELD, ADDITION OF TANK)*
- \$100— ALTERATION w/ NO NEW COMPONENTS**—— *CHANGE OF USE OF UNIT (E.G. CONVERSION TO VACATION RENTAL, ADDITION OF 1 BEDROOM, REPLACEMENT OF STRUCTURE WITH SAME TYPE & BEDROOM #)*

DID YOU KNOW!

* AS PER A.R.M. 17.36.920 (5), "FOR PERMITS ISSUED FOR THE REPLACEMENT OF WASTEWATER TREATMENT SYSTEMS THAT DO NOT MEET THE MINIMUM STANDARDS FOR SUBDIVISION AS SET OUT IN ARM TITLE 17, CHAPTER 36, SUBCHAPTER 3, THE REVIEWING AUTHORITY SHALL NOTIFY THE OWNER THAT THE DESIGN MAY LIMIT THE ABILITY OF THE OWNER TO SUBDIVIDE THE PROPERTY".

PROPERTY INFORMATION

PROPERTY OWNER(s): CHAMBERS CHRISTOPHER R & JENNIFER J
 MAILING ADDRESS: 407 GLENHURST TRCE CITY: CANTON STATE/ZIP: GA 30115-6317
 EMAIL: blueridge.nw@gmail.com PHONE: (404)574-0345
~~PROPERTY ADDRESS: 40478 Tower Road CITY: Polson, MT 59860~~
 SUBDIVISION/COS/LEGAL DESCRIPTION: ANTIQUE FARMS SUBDIVISION, S27, T23 N, R21 W, Lot 2, ACRES 20.01, SUBD PLAT
 LOT: 2 BLOCK: _____ PARCEL SIZE: 20.01 SECTION: 27 TOWNSHIP: 23 N. RANGE: 21 W.
 GEOCODE: 15 - 3349 - 27 - 1 - 01 - 14 - 0000

WWTS CONSULTANT & INSTALLER INFORMATION

WWTS DESIGNER/CONSULTANT: Advanced Consulting/Mission Valley Consulting PHONE: (325) 206-1526
 MAILING ADDRESS: 2103 Woodbine Way CITY: Polson STATE/ZIP: MT 59860
 WWTS LICENSED INSTALLER: TBD *Must be licensed in Lake County* PHONE: _____
 MAILING ADDRESS: _____ CITY: _____ STATE/ZIP: _____

LAKE COUNTY WASTEWATER TREATMENT SYSTEM (WWTS) PERMIT

OFFICE USE ONLY

DOCUMENTS REQUIRED: (CIRCLE) LEVEL II GUEST HOUSE EASEMENT SHARED AFFIDAVIT OTHER NONE

DOCUMENT NOTES: _____

SANITATION APPROVAL: (CIRCLE) REQUIRED NOT REQUIRED COMPLETED ES# 593176

DESIGN FLOW - NUMBER OF BEDROOMS: 3

GALLONS PER DAY: 300 SEPTIC TANK: 1000 gallon septic tank + 500 gallon dosing chamber

APPLICATION RATE: 0.4 gpd/ft² SOIL TYPE: -

PUMP SPECS: see design

LEVEL II SYSTEM REQUIRED? (CIRCLE) YES NO IF YES, EXPLAIN: Not required

OTHER SEPTIC PERMITS RELATED TO THIS PARCEL: None known

SANITATION APPROVAL: Install wastewater treatment system as per design by Robert Teaff of Mission Valley Consulting and Bill Buxton, P.E of Advanced Consulting Services. See design plans for lot layout and specifications. This permit is approved for 3 bedroom one single family dwelling.

SANITARIAN INITIALS: DKL

PLANNING APPROVAL: Building notification permit BNP 22-24 has been reviewed and approved for the construction of a single family residence w/ attached garage. Any further construction, modification, or change in use requires further review and approval. 7/6/2022

PLANNER INITIALS: [Signature]

Manak K. Luke, R.S.
SIGNATURE OF REGISTERED SANITARIAN

July 7, 2022 9630
DATE OF ISSUE PERMIT #

- ◆ THIS WWTS PERMIT IS GOOD FOR 24 MONTHS AFTER THE DATE OF ISSUANCE. IT WILL EXPIRE ON July 7, 2024.
- ◆ IF THE WWTS HAS NOT BE INSTALLED PRIOR TO THE EXPIRATION DATE NOTED, PLEASE CONTACT LCEH AT 406-883-7236 TO SEE IF THE PERMIT CAN BE EXTENDED FOR AN ADDITIONAL 12 MONTHS.

FOR RECEIPTING ONLY:

PERMIT # 9630

CHECK # 124

APPLICATION DATE: 5/25/2022

EXISTING & PROPOSED SERVICES

PLEASE CIRCLE ALL THAT APPLY AND DESCRIBE EACH ITEM BELOW

- ◆ REASONS FOR PROPOSED WWTS: NEW REPLACEMENT OF EXISTING/FAILURE ALTERATION OF EXISTING
- ◆ STRUCTURE(S): SINGLE-FAMILY MULTI-FAMILY MOBILE HOME COMMERCIAL GARAGE/SHOP OTHER
- ◆ HOW MANY STRUCTURES DEPENDENT UPON WWTS: 1 Single Family Home
- ◆ ADDITIONAL PROPOSED SERVICES (E.G. RV HOOK-UP, BATHROOM IN SHOP): _____
- ◆ TOTAL BEDROOM #: 3
- ◆ WATER SYSTEM: EXISTING PROPOSED
- ◆ WATER SYSTEM TYPE: WELL LAKE SPRING SHARED WATER SYSTEM COMMUNITY WATER SYSTEM
- ◆ WATER SOFTENER/TREATMENT UNIT(S) IN USE OR PROPOSING TO INSTALL: YES NO

Unless plumbed separately.

OWNER/AGENT AUTHORIZATION

I HEREBY DECLARE THAT THE INFORMATION SUBMITTED HEREIN IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE. I UNDERSTAND THAT AN INSTALLATION PERMIT MUST BE ISSUED BEFORE ANY SYSTEM COMPONENTS ARE INSTALLED, UNLESS OTHERWISE AUTHORIZED, AND THAT A FINAL INSPECTION AND AUTHORIZED APPROVAL OF THE SYSTEM MUST BE CONDUCTED BY A LAKE COUNTY REGISTERED SANITARIAN PRIOR TO BACK FILLING AND USE OF THE WWTS.

FOR ANY ALTERATION TYPE: I ACKNOWLEDGE THAT, IF I AM INCREASING WASTEWATER FLOW OR STRENGTH TO AN EXISTING WASTEWATER TREATMENT SYSTEM, IT MAY CAUSE THE SYSTEM TO FAIL PREMATURELY. I ALSO UNDERSTAND THAT BECAUSE OF THE ADDITIONAL FLOW OR STRENGTH OF WASTEWATER, THE SEPTIC TANK SHOULD BE CHECKED A MINIMUM OF EVERY THREE (3) YEARS AND PUMPED IF NECESSARY.

MY SIGNATURE ALSO AUTHORIZES ACCESS TO THE DESCRIBED PROPERTY FOR PURPOSES OF REVIEWING THIS APPLICATION.

PROPERTY OWNER(S)/AGENT SIGNATURE(S):

DATE: 5/19/2022

IF AGENT, WRITTEN AUTHORIZATION FROM THE OWNER AND/OR LEGAL REPRESENTATIVE MUST BE RECEIVED BY LCEH BEFORE THE APPLICATION CAN BE PROCESSED.

DISCLAIMER

AS CITED UNDER SECTIONS 3.2-4.2 OF THE LAKE COUNTY WWTS REGULATIONS:

- ◆ SECTION 3.2 (C), NO PERSON MAY INSTALL/ALTER THE WWTS CONTRARY TO WHAT THIS PERMIT IS APPROVED FOR. APPROVAL MUST FIRST BE GRANTED FROM THE CONTRACTED DESIGNER AND/OR LAKE COUNTY ENVIRONMENTAL HEALTH (LCEH) TO ALTER THE WWTS.
- ◆ SECTION 3.5, THIS PERMIT IS VALID FOR ONLY 24 MONTHS FROM THE DATE OF ISSUANCE. HOMEOWNERS MAY HAVE THE ABILITY TO EXTEND THE PERMIT'S APPROVAL FOR AN ADDITIONAL 12 MORE MONTHS UPON CONSULTING WITH LCEH.
- ◆ SECTION 4.2 (C), ANY PROPOSED WELLS INSTALLED AFTER THE DATE OF ISSUANCE OF THIS WWTS PERMIT SHALL MEET THE MINIMUM SETBACK DISTANCE REQUIREMENTS AS IDENTIFIED BY A.R.M. 17.36.918. ANY INSTALLED WELL THAT CONFLICTS WITH THE MINIMUM SETBACK DISTANCES, IS IN VIOLATION AND MAY BE REQUIRED TO BE ABANDONED.
- ◆ SECTION 4.2 (L), ALL WATER SOFTENER DISCHARGE SHALL BE EXCLUDED FROM THIS WWTS, AND SHALL BE DISPOSED OF IN A MANNER THAT WILL NOT AFFECT THE WWTS.

Technical Memorandum

Date: Wednesday, May 25, 2022

Project: Pressure Dosed Drainfield Design

For: Chambers Property

By Advanced Consulting Services
William A. Buxton, PE

Property Antique Farms Subdivision Lot 2
Location: Section 27, Township 23 North, Range 21 West
Geo Code: 15-3349-27-1-01-14-0000



INTRODUCTION

The proposed project is in Section 27, Township 23 North, Range 21 West in Lake County, Montana. The owners of the property plan to construct a new 3 bedroom home. This Technical Memorandum serves as the basis of design for a new pressure dosed drainfield to serve the proposed improvements.

SITE EVALUATION

A site evaluation was not completed for the property since there is an existing COSA.

WASTEWATER FLOW RATE

According to Lake County and DEQ Standards, the minimum flow rate for a subsurface wastewater treatment system to serve a 3 bedroom home is 300 gallons a day. As a result, the total design flow for this project is 300 gallons per day.

SEPTIC TANK SIZING

According to DEQ 4 ^{three (3)} and Lake County Regulations, the minimum capacity of a septic tank serving a ~~four~~ bedroom home is 1,000 gallons. As a result, a 1,000 gallon septic tank designed in accordance with DEQ 4 and Lake County standards will be used for this project.

PRESSURE DOSED DRAINFIELD DESIGN

The drainfield size is determined by the application rate, which is determined by the soil type. According to the COSA, the soils correspond to an application rate of 0.4 gallons per day per square foot of drainfield (gpd/ft²). Based on this rate and a total flow rate of 300 gallons per day, the drainfield will have a total area of 750 ft². Assuming three-foot wide trenches the total required drainfield length is 250 feet. For this project three 85-foot long trenches will be used.

The design of the dosing pump was completed using Orenco's Pump Select program which has been developed to sizing pumps in pressure dosed drainfield applications taking into consideration orifice size, spacing, squirt height, etc. A copy of the output for the design of this system is attached to this memo and the key design components are summarized below.

Design Squirt Height =	5 feet
Flow Rate per Orifice =	0.80 gpm
Orifice Size =	5/32 inches
Orifice Spacing =	5 feet
Orifices per Lateral =	18
Flow Differential =	5.8 percent
Pump Flow =	44 gpm
Total Dynamic Head =	27 feet

DOSING CHAMBER

The dose volume of a pressure dosed drainfield must be equal to the drained volume of the transport pipe (17.4 gallons) and manifold (2.4 gallons), plus a volume that is 5 to 10 times the volume of the distribution pipe (19.8 gallons). Based on these criteria, the dose volume will need to range between 119 and 218 gallons per dose and a 500 gallon dosing chamber will be used. As shown on the drawings, the distance between the on and off pump floats is 1.00 foot which corresponds to a dose volume of approximately 156 gallons. In addition, 25 percent of the design flow (~75 gallons) has been reserved above the high-water alarm.

Pump Selection for a Pressurized System - Single Family Residence Project

Chambers Drainfield / Lake County

Parameters

Discharge Assembly Size	2.00	inches
Transport Length	100	feet
Transport Pipe Class	40	
Transport Line Size	2.00	inches
Distributing Valve Model	None	
Max Elevation Lift	12	feet
Manifold Length	14	feet
Manifold Pipe Class	40	
Manifold Pipe Size	2.00	inches
Number of Laterals per Cell	3	
Lateral Length	85	feet
Lateral Pipe Class	40	
Lateral Pipe Size	1.25	inches
Orifice Size	5/32	inches
Orifice Spacing	5	feet
Residual Head	7	feet
Flow Meter	None	inches
'Add-on' Friction Losses	0	feet

Calculations

Minimum Flow Rate per Orifice	0.60	gpm
Number of Orifices per Zone	54	
Total Flow Rate per Zone	43.9	gpm
Number of Laterals per Zone	3	
% Flow Differential 1st/Last Orifice	5.8	%
Transport Velocity	4.2	fps

Frictional Head Losses

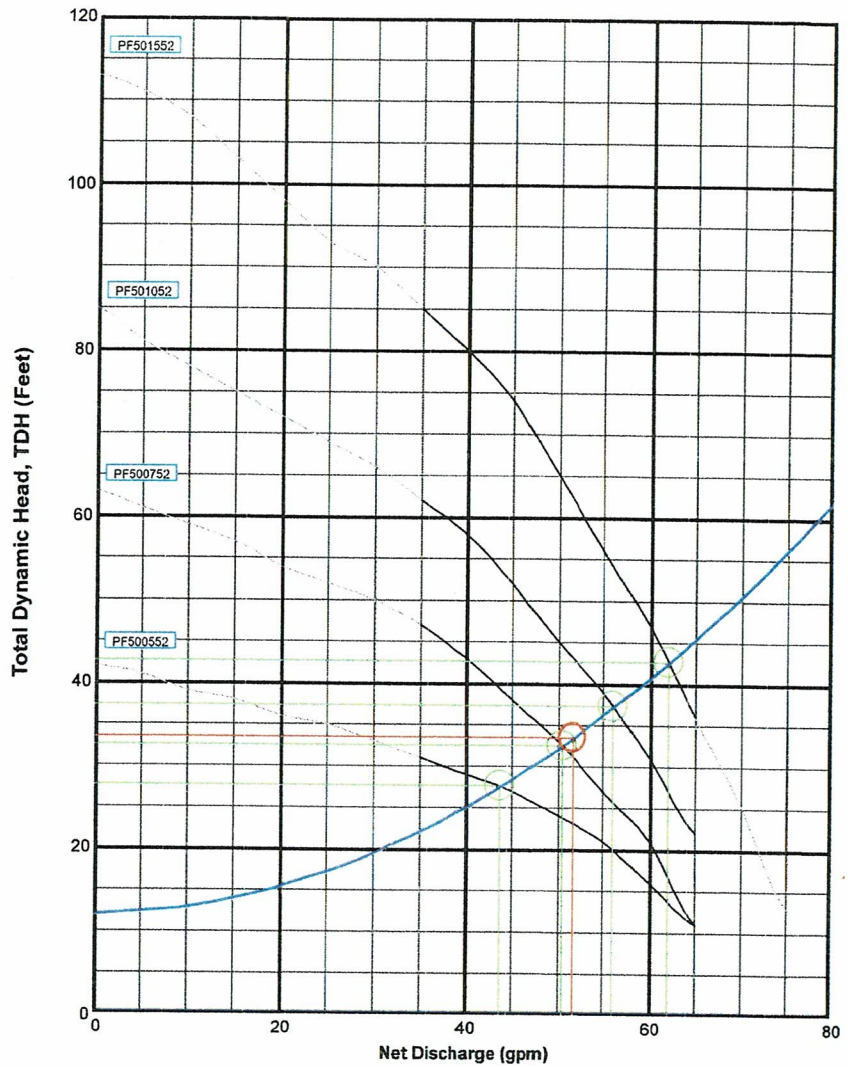
Loss through Discharge	3.9	feet
Loss in Transport	3.1	feet
Loss through Valve	0.0	feet
Loss in Manifold	0.1	feet
Loss in Laterals	0.9	feet
Loss through Flowmeter	0.0	feet
'Add-on' Friction Losses	0.0	feet

Pipe Volumes

Vol of Transport Line	17.4	gals
Vol of Manifold	2.4	gals
Vol of Laterals per Zone	19.8	gals
Total Volume	39.7	gals

Minimum Pump Requirements

Design Flow Rate	43.9	gpm
Total Dynamic Head	27.1	feet



PumpData

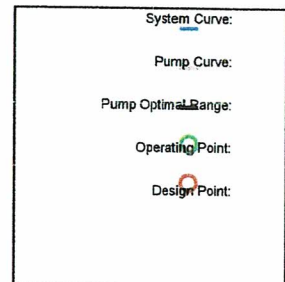
PF5005 High Head Effluent Pump
50 GPM, 1/2HP
220V 1Ø 50Hz

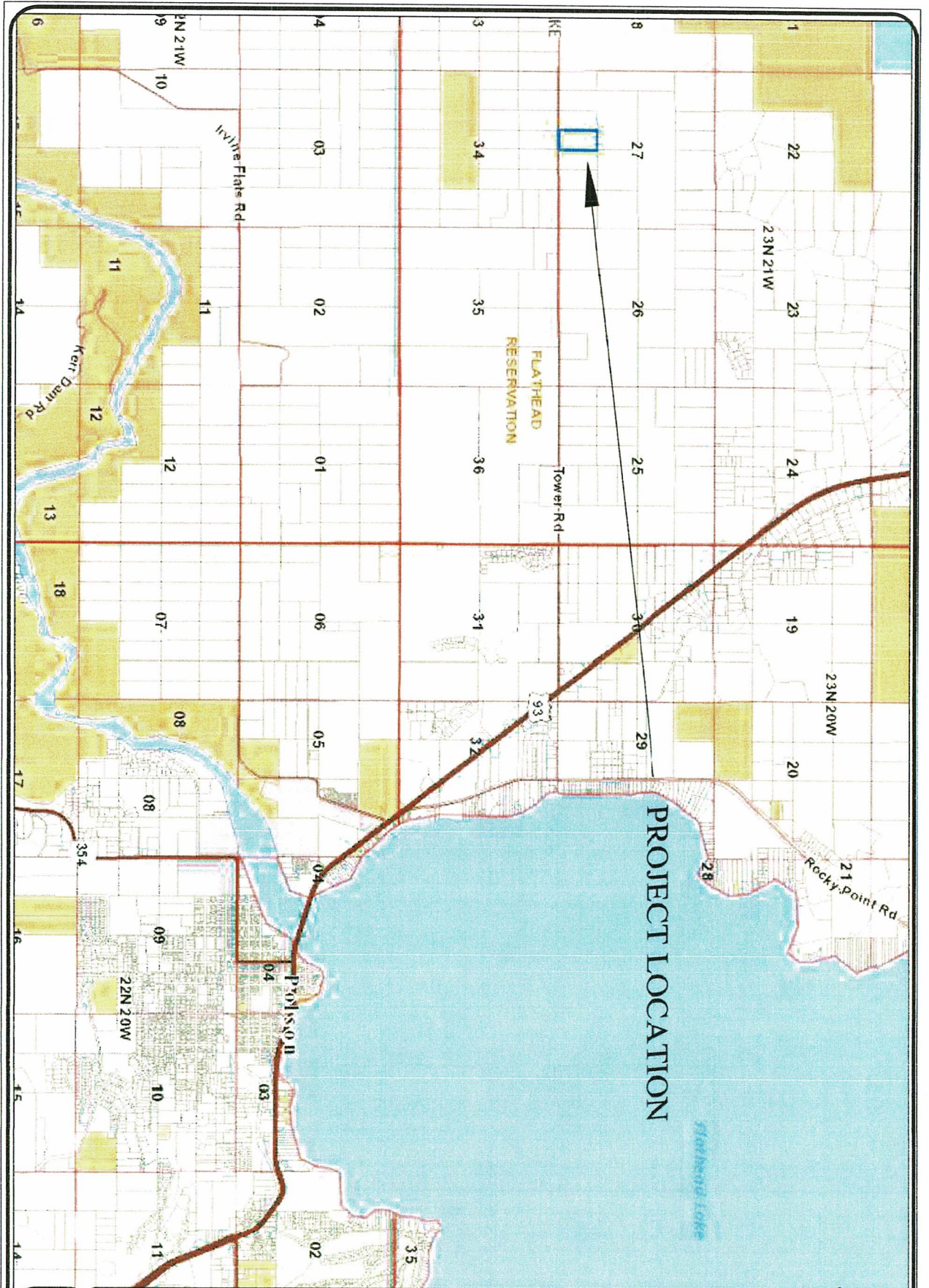
PF5007 High Head Effluent Pump
50 GPM, 3/4HP
220V 1Ø 50Hz

PF5010 High Head Effluent Pump
50 GPM, 1HP
220V 1Ø 50Hz

PF5015 High Head Effluent Pump
50 GPM, 1-1/2HP
220V 1Ø 50Hz

Legend





PROJECT LOCATION

D-4
Dwg. No.

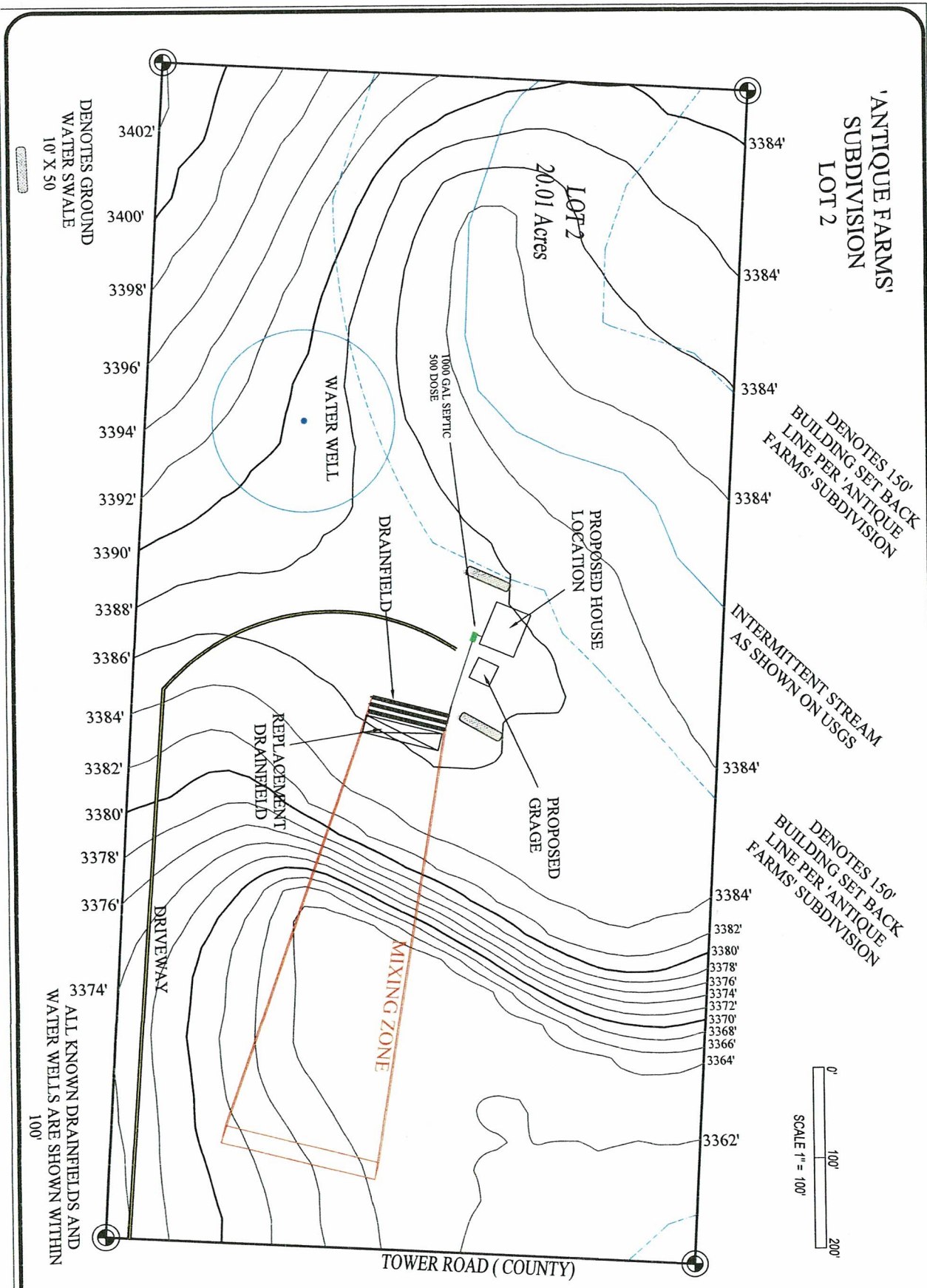
Septic System Permit Application
for
CHRISTOPHER R & JENNIFER J CHAMBERS
ANTIQUE FARMS SUBDIVISION, S27, T23 N, R21 W, Lot 2, ACRES 20.01, Lake County
Geocode 15-3349-27-1-01-14-0000

PROJECT NO.
DESIGNED BY: WAB
DRAWN BY: RCT
SCALE: AS SHOWN
DATE: 05/22

SITE PLAN

NORTH
MSP NAD 83

Revised Lot Layout received 6/21/22 (39)



DENOTES GROUND WATER SWALE 10' X 50

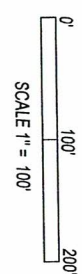
'ANTIQUE FARMS' SUBDIVISION LOT 2

DENOTES 150' BUILDING SET BACK LINE PER 'ANTIQUE FARMS' SUBDIVISION

INTERMITTENT STREAM AS SHOWN ON USGS

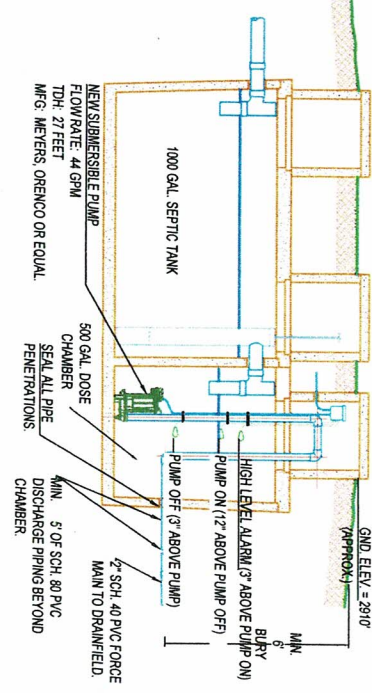
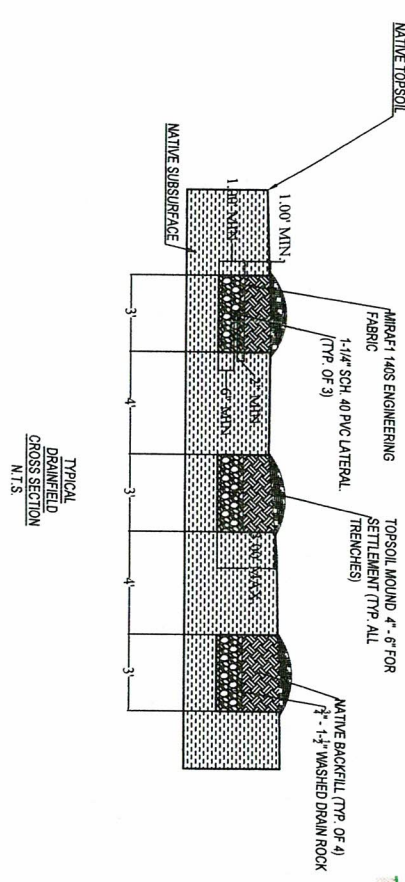
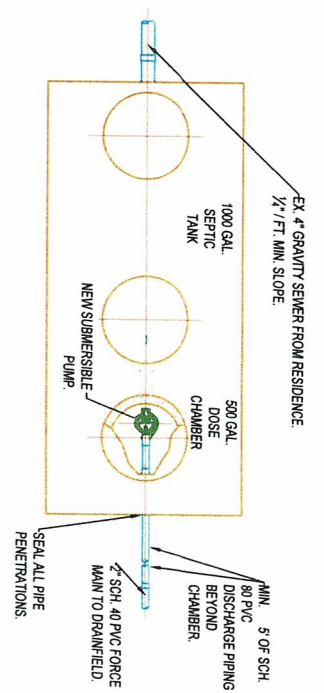
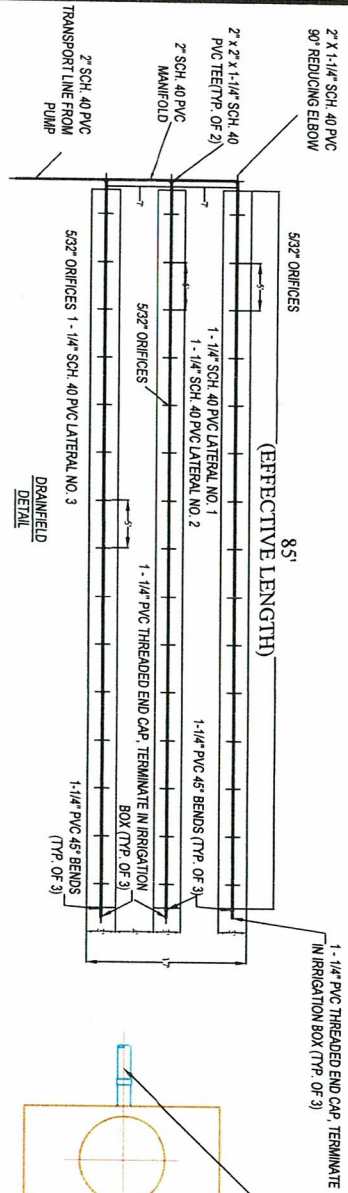
DENOTES 150' BUILDING SET BACK LINE PER 'ANTIQUE FARMS' SUBDIVISION

ALL KNOWN DRAINFIELDS AND WATER WELLS ARE SHOWN WITHIN 100'



TOWER ROAD (COUNTY)

D-1	Dwg No.	Septic System Permit Application		PROJECT NO. _____	DESIGNED BY: W A B	DRAWN BY: R C T	SCALE: AS SHOWN	DATE: 0522	SITE PLAN	
		for CHRISTOPHER R & JENNIFER J CHAMBERS								



D-2 <small>Dwg. No.</small>	Septic System Permit Application for CHRISTOPHER R & JENNIFER J CHAMBERS <small>ANTIQUE FARMS SUBDIVISION, S27, T23 N, R21 W, Lot 2, ACRES 20.01, Lake County Geocode 15-3349-27-1-01-14-0000</small>	<small>PROJECT NO.</small> <small>DESIGNED BY:</small> WAB <small>DRAWN BY:</small> RCT <small>SCALE:</small> AS SHOWN <small>DATE:</small> 0322	DETAILS	 <small>NORTH</small> <small>MSP NAD 83</small>
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General Notes

1. It is contractor's responsibility to verify the presence, location and depth of all existing utilities as needed to perform the work. It shall be the contractor's responsibility to protect the utilities from damage. Property pins found within the construction area shall be preserved. If a monument is disturbed, the contractor shall replace the monument at their expense.
2. Existing septic tanks shall be completely removed, crushed and backfilled or filled with gravel per Lake County regulations.
3. All necessary permits shall be obtained by contractor.

Standard Trench Installation Notes

1. Excavate and level installation areas.
2. Scarify surface to remove any shearing caused during excavation.
3. Place washed drain rock per Lake County and DEQ standards.
4. Using a light tracked machine, cover trenches, avoiding any large rocks or debris in cover material.

Septic Tank and Pump Chamber Notes

1. Septic tank and pump chamber shall be manufactured by Glacier Precast and shall meet Lake County and Montana DEQ standards.
2. The tank section shown on this page may not be representative of the actual size or dimensions of the septic tank and pump chamber. This detail is intended to provide plumbing and wiring schematics and float switch elevations only.
3. Pump discharge piping shall be 2 inch diameter.
4. All piping inside and within five (5) feet of the septic tank shall be schedule 80 PVC pipe.
5. Access to the pump shall be sufficient for maintenance. Risers are recommended on all tanks and required if the top is more than eight (8) inches below the finished ground surface.
6. The riser/access lid over the filter shall be at the finished ground surface.
7. Tanks, risers and access lids located in areas with vehicle traffic shall be engineered for standard vehicular loads. The use of physical barriers (i.e. landscape boulders, fencing, etc) to protect access lids in non-vehicular areas to prevent accidental vehicle damage shall be as recommended by Owner.
8. Septic tanks/pump chambers should be carefully located so that they can be accessed by septic pumper trucks.

Specifications and Installation

1. All pipes shall be bedded six (6) inches above and below the pipe in pipe bedding sand or other fine grained soil free of gravel over one inch in size. Debris, frozen material, stones (greater than 8 inches in diameter), organic material or other unsuitable materials shall not be used for backfill within 24 inches of the top of the pipe. Compaction under and around the pipe shall be sufficient to prevent movement of the pipe due to settlement.
2. Pipe and fittings from the dwelling or structure to the septic tank shall conform to or exceed ASTM D1785 (Schedule 40 or 80) and must be joined by an integral bell and spigot joint with rubber elastomeric gasket or solvent cement. PVC pipe shall have a minimum SDR of 35. Pipe and fittings from the septic tank to the drainfield shall be either Schedule 40 or Schedule 80 PVC, as described above or HDPE conforming to or exceeding ASTM D3350. HDPE pipe shall have a minimum SDR of 11 and a minimum pressure rating of 160 psi.

3. Infiltrators shall be "Quick 4 Plus Standard Chamber" as manufactured by Infiltrator Water Technologies and shall include:
 - Two center structural columns for increased stability and strength.
 - Advanced contouring connections.
 - Latching mechanism that allows for quick installation.
 - Four-foot chamber lengths.
 - Capable of supporting wheel loads of 16,000 lbs. axle with 12" of cover.

End caps shall be configured with a mid-trench connection that allows for center-feed and shall be capable of accepting both Schedule 40 and SDR piping.

4. The sides and bottom of the trenches shall be raked to scarify any smeared soil surfaces after excavation.
5. Construction equipment not needed to construct the system shall be kept off the drainfield area. Construction shall not be initiated when the soil moisture content is high.
6. There shall be a minimum of 12 inches of soil above the infiltrator chambers. When the bottom of the trench is less than 24 inches below the ground, a cap above the natural ground surface is required. The cap must be tapered from the edge of the outermost trench well with a 3:1 or flatter slope to encourage drainage away from the center of the drainfield.
6. The bottom of the drainfield trench shall be no more than 36 inches below the natural ground surface.
7. Cleanouts shall be provided at the end of each lateral. The cleanouts shall be within 6 inches finished grade and shall be constructed of long sweep elbows or two 45 degree bands. A metal location marker shall be provided for each cleanout.
8. Where the top of the septic tank is located more than 18 inches below finished grade, manhole risers shall be installed extending to within eight inches of the finished grade to facilitate inspection and cleaning of each compartment in the tank. The riser pipe shall be of sufficient size to provide access to each compartment for inspection and sludge removal.
9. Sealing material such as groud shall be placed around any pipe where it enters or exits the tank to ensure that no leakage occurs.
10. The septic tank shall be installed level and on a flat bedding material free of organic material, debris, rocks, cobbles, stones or gravel greater than 1 inch in diameter.

Tank Testing

1. All tanks must be watertight. Water tightness testing for concrete tanks may be conducted using a water test.
2. Water testing must be conducted by sealing the outlets, filling the septic tank to its operational level and allowing the tank to stand for at least 8 hours. If there is a measurable loss (2 inches or more), refill the tank and let stand for another 8 hours. If there is again a measurable loss, the tank must be replaced or repaired.

Operation and Maintenance

1. Inspect Filters every 3 months and clean and replace as needed.
2. Clean and pump septic tank every 3 years.
 - a. Confirm baffles are in place.
 - b. Visually inspect mechanical and electrical components.
 - c. Observe and calibrate pump operation and tank draw down if necessary.

Application for Septic Permit

for
CHRISTOPHER R & JENNIFER J CHAMBERS
ANTIQUUE FARMS SUBDIVISION, 627, 122 N. R21 W, Lot 2, ACRES 20.01, Lake County
Geocode 15-3349-27-1-01-14-0000

PROJECT NO.
DESIGNED BY
DRAWN BY
SCALE
DATE

**SEPTIC SYSTEM
SPECIFICATIONS**

D-3

Large File