

Points of difference that make Ritter Sewer & Excavating's installation the best investment in your onsite sewage treatment system.

Quality Comparison Points:

From the house to the final treatment area the homeowner will benefit when they purchase an installation from Ritter Sewer & Excavating, Inc.

We install a 4" clean out at the exterior of the house for easy access to the sewer line in the event that the line would become plugged or frozen. This access allows a service technician to work on the line from outside of the building.

The piping from the house to the tank and to the treatment area is all Schedule 40 solid core pipe with long bell ends. The long bell end is cleaned with primer and then glued, guaranteeing a solid fit over the next pipe. This is a much more secure method than using a coupling to connect pipes and offers uniform installation of the pipe sections.

We install a 24" diameter riser on the tank maintenance opening to finished grade. All riser extensions are screwed together and a tar joint compound is used between connections. A safety lid is installed inside all septic tank openings. A flat heavy duty 2" insulated cover (not plastic domed or concrete) is secured on maintenance openings with 6 hex head stainless screws.

We install Goulds brand, cast iron pumps, typically ½ horsepower depending on the system design. Our Goulds pumps come with a two-year warranty on replacement (not the normal 1 year). The Goulds brand has provided us with a proven track record of performance and meets the performance standards necessary to provide dependable pumping to the treatment area. Float switches also offer a two-year warranty on replacement.

Pumps are installed with a piece of flex piping (so if the pipe moves the fittings won't break or pull apart). A cam-lock style quick coupler made of PVC and stainless steel is used at the point of disconnect. This type of connection will not blow apart under pressure like the commonly used fernco type coupler (similar to a radiator clamp). All other fittings used are deep well pressure fittings, cleaned with primer and glued. The fittings are not drain, waste or vent fittings.

When installing a system that has a pump and alarm, we will place a 12-2 wire for the lift pump and the alarm in the same ditch as the 4" pipe coming from the house out to the lift tank connection. Unless so noted we let the homeowners hire an electrician or do the wiring themselves.

We install 2" of high density styrofoam on the top of all septic and lift tanks for frost protection (2" of foam is equal to 24" of soil). Septic tanks will have a Polylok 122 effluent filter with a smartfilter alarm and wiring run into the PS Patrol panel, this filter has 1/16" filtration slots so nothing larger than 1/16" will pass into the final treatment area and plug the piping, it also has a shut off ball that plugs off the outlet when removed for service.

We utilize an SJE-Rhombus PS Patrol brand electrical junction box with a breaker built into it for connections at the lift station. The PS Patrol houses the plug in points for the pump and floats; it also offers a 360-audio/visual check of alarm conditions. Wires from inside the lift station are brought into the PS Patrol through conduit. The homeowner (reducing electrician costs) can easily wire this.

When installing the treatment area (mound, drainfield, or trench) we use low ground pressure excavation equipment to protect the soils from compaction during installation. When installing a mound type treatment system we will specify an approximate amount of washed sand, sandy loam and blackdirt/topsoil yardage on the quote. All mound systems have blackdirt, grass seed, fertilizer and hay/straw mulch placed on them (unlike most contractors).

The rock area of the treatment systems are covered with a heavy-duty woven geotextile fabric, we do not use a lightweight, paper-thin fabric. The geotextile fabric protects the rock below from infiltration of soil particles and is installed approximately 12" beyond the rock edge for additional protection.

Ritter Sewer & Excavating Inc. is a Licensed Designer, Inspector, Installer and Service Provider through the Minnesota Pollution Control Agency. We offer insurance coverage on all our employees, trucks and equipment while working on your site. We strive to comply with all OSHA rules and recommendations for a safe work environment. We comply with federal and state Department of Transportation laws of safe driving, vehicle inspections and mandatory drug and alcohol testing of all employees.

Ritter Sewer & Excavating Inc. is a 3rd generation family owned and operated business, proudly serving the community since "1943". ***Remember we stand behind our work and service what we sell!***

Thank you for reviewing this information and our proposal. If you have any questions please call our office.

PROPOSAL AND ACCEPTANCE

Proposal Submitted To

Tracy Henry
Street
 33242 433rd Place
City, State & Zip
 Aitkin MN 56431
Home Phone
 651-336-7679

Work Phone

tracyahenry@yahoo.co

County

Aitkin

Township

Aitkin

Lake Name

#4

Well Depth

0' – 50' () 51'+ (xx)

New Deep well

Date

May 2, 2024

Proposal #

2024-20

Designer/Architect

Jeff Brummer

of Bedrooms

2 bedroom

No Garbage Disposal

We Hereby Submit Specifications And Estimates For:

INSTALLATION OF ON-SITE SEWAGE TREATMENT SYSTEM (18" sand base mound)

Install 4" Schedule 40 PVC pipe from outside of camper drop to septic tank (air test line within 50' of well). Install a 1,650 gallon precast concrete septic/lift tank (2 compartment tank). Septic tank capacity 1,130 gallon, lift tank capacity 520 gallons. Manholes will come to surface with flat heavy duty insulated covers placed on top and safety lids inside. Install 12-2 electric wire in same ditch with 4" pipe going to building (but not hooked up). Install 2" high density styrofoam on top of septic/lift tank for frost protection. PL-122 Effluent filter with electric alarm will be installed in outlet of septic tank to protect mound from solids and warn of filter maintenance. PS Patrol panel with an audio/visual electric alarm will warn of pump failure and house electric connections. Gould's 2" effluent pump (1/2 hp. with 2-year warranty) will pump sewage up into 335 square foot of pressure mound. Approximately 150 yards of WASHED SAND will be placed under 12" of washed crushed rock to attain mottling separation. 3 - 1½" lateral pipes will be placed into 12" of clean crushed rock to distribute effluent by pressure. Approximately 200 yards of sandy loam soil will be placed over sand and fabric to create a 4 to 1 slope on mound. Geotextile fabric will be placed over rock area prior to backfilling. Approximately 100 yards of blackdirt/topsoil will be placed over mound and septic tank area. Distribute grass seed, fertilizer and hay mulch over the mound/septic area.

Bid does not include: Electrician to hook up wiring, tree removal, septic system design or permits.

NOTE: Replacement of (or damage to) topsoil, sod, trees, shrubs, flowers, landscaping, driveways, sidewalks, electric wires and underground sprinklers is not included in this bid unless otherwise stated.

We Propose to furnish material and labor - in accordance with the above specifications for the sum of:

Twenty three thousand dollars and 00/100 dollars

\$23,000.00

Payment to be made as follows:

25% down upon signature of contract, remainder due upon completion of work (within 10 days).

All material is guaranteed to be as specified. All work to be completed in a workman-like manner according to standard practices. Any alteration or deviation from above specifications involving extra costs will become an extra charge over and above the estimate. All agreements contingent upon strikes, accidents or delays beyond our control. Owner to carry fire, tornado and other necessary insurance. Our workers are fully covered by Workman's Compensation Insurance. NOTE: This proposal may be withdrawn by us if not accepted within 30 days.

Authorized Signature _____



ACCEPTANCE OF PROPOSAL - The above prices, specifications and conditions are satisfactory and are accepted. You are authorized to do the work as specified. Payments are to be made as outlined above. Return contract to schedule work.

Signature _____

Date _____

CONTRACTORS NOTICE TO OWNERS

Any person or company supplying labor or materials for this improvement to your property may file a lien against your property if that person or company is not paid for their contributions.

Under Minnesota Law, you have the right to pay persons who supplied labor/materials for this improvement directly and deduct this amount from our contract price, or withhold the amounts due them from us until 120 days after completion of the improvement unless we give you a lien waiver signed by persons who supplied labor or material for the improvement and who gave you timely notice.

The undersigned agrees to all costs of collection, including Attorney's fees, in the event this proposal of acceptance is not paid when due. Portion of Down payment check is non – refundable (\$500.00) on all signed proposals.