

April 6, 2021

If you have any question about these technical requirements and the responsibilities of contractors, please visit rmofstandrews.com or call (204) 738-2262.

Requirements for contractors

Any contractor installing underground utility services must comply with the following:

- Obtain underground utility service permits for every utility services connection from the RM office
- Provide a 12-month warranty to the property owner and to the RM for the service connection
- Contact the public works department to determine the curb stop location for the property being serviced
- Arrange for the Public Works Department to inspect the service line at the curb stop connection between the hours of 8:30 a.m. to 4:30 p.m., Monday to Friday, and return the completed permit to the RM office within 30 days of the issue date on the permit
- Be liable for any deficiencies discovered in the future if they fail to set up an inspection prior to the service line being covered
- Follow all municipal specifications and by-laws pertaining to underground utility service connections
- Obtain a valid RM of St. Andrews Business License or pay a business tax to the RM
- Provide to the RM an Indemnity Bond in the amount not less than \$10,000.00 to fully identify the RM for all damages or expenses due to settlement, breakage, poor workmanship or faulty material
- Provide the RM with a copy of their comprehensive General Liability Insurance Policy in the amount of not less than \$2 million to fully indemnify the RM from and against all accidents, lost, cost, charges, damages and expenses that it may at any time bear of said work performed and materials supplied by the contractor

Instructions and specifications

General instructions

- A permit to install a sewer line must be obtained from the RM of St. Andrews prior to undertaking the work. A refundable \$500.00 damage deposit is required if installing line at curbstops.
- Contractor to obtain an electrical permit where required.
- All products and work shall conform to the relevant Manitoba Water Services Board specifications unless explicitly indicated otherwise. <http://www.gov.mb.ca/imr/mr/mwsb/pubs/standard-construction-specifications.pdf>
- All works to be in accordance with all provincial and federal regulations.

Sewer service lines

- Low pressure service pipe shall be HDPE DR 17 and 38 mm in diameter except services in excess of 100 metres long.
- Contact the municipal engineer to confirm the required service pipe diameter for services longer than 100 metres.
- Sewer service piping to be installed with a minimum of 2.5 metres of cover from the top of the pipe to the ground elevation.
- All pipes for submersible pumps inside the septic tank shall be 38 mm in diameter, non-kinking type, minimum bending radius of 82 mm and minimum 340 kPa (50 psi) working pressure and 1,500 kPa (220 psi) burst pressure suitable for use in sewage effluent. Construction of hose to be EDPM compound for tube and cover.

Service line fittings

- Fittings for low-pressure sewer lines shall be corrosion-resistant brass or stainless steel.
- Stainless steel inserts shall be used for poly tubing.
- Pipe clamps shall be stainless steel with stainless steel nuts and bolts.

Check valves

- Check valves shall be Flomatic, Model 508.
- Exposed bolts shall be stainless steel.
- Check valves shall be installed in the vertical position immediately downstream of pump.
- For submersible pump installations, check valves shall be 38 mm in diameter.
- For suction-style centrifugal pumps, a check valve must be installed on the suction line, or the discharge line.

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Ball valves

- For submersible pump installations, ball valves shall be 38 mm in diameter, PVC or stainless steel and installed immediately downstream of the check valve to allow the pump and check valve to be isolated for maintenance.
- For suction-style centrifugal pump installations, ball valves shall be brass, Boshart BII Series 0827 or equivalent. A 38 mm diameter ball valve shall be installed immediately downstream of the pump on the discharge pipe and a 32 mm diameter ball valve installed on the suction line between the tank and check valve.

Clamps

- All clamps shall be stainless steel with stainless steel nuts and bolts.

Effluent pump

- Acceptable pump types are shown below – except for services longer than 100 metres and for properties located between River Road and the Red River. For these cases the contractor must contact the municipal engineer to confirm the appropriate pump.
 - Goulds WE0511HH
 - Hydromatic SHEF50
 - Monarch BE S50
 - Little Giant BE S50
 - Zoeller Model N161
 - Liberty FL60
 - Franklin RL-S50
- Install lifting chain for submersible pump maintenance.

Septic tanks

- Two-chamber septic tanks manufactured in accordance with Canadian Standards Association Standard B66 and conforming to Manitoba On-Site Wastewater Management System Regulations.
- Tanks shall be either concrete or fiberglass construction with tie-down straps and weights as required to prevent floating.
- Tanks shall be suitable for a minimum 2,000 mm burial (soil cover over the top of the septic tank).
- Tanks shall be equipped with an access manhole extending to the ground surface (minimum 600 mm diameter) with a child-proof cover. Manhole to provide access to both chambers.
- Pipe penetration shall be watertight and shall be prefabricated for fiberglass tanks.

Liquid level controls with high level alarms

- Rated to start the selected pump.
- Controls shall be CSA approved complete with a 15-metre electrical cable. Electrical cable shall not be constructed with any materials or fibres which conduct or absorb water.
- Switches to activate pump at high-level and deactivate the pump at low-level.
- Be omni-directional in operation (i.e., no “up” side).
- Install high-level alarm to activate warning light (at minimum).

Electrical

- All work shall conform to applicable electrical code requirements.
- All electrical materials to bear CSA approved labels.

Restoration of site

- Contractor is responsible for restoration on municipal road allowance.

Sump pumps

- Sump pumps that are connected to the septic tanks must be disconnected and the sump water is to be discharged outside of the building.

Post-construction

- Contractor must contact the Municipal Public Works staff prior to opening the curb stop.