

## Mechanical Notes & Specifications (for Addendum 2)

1. Urinals UR-1 to be supplied complete with Zurn Model Z1223 plate type concealed carrier.

2. Delete the sewage lift station (cast-in-place concrete pit by others). Supply and install two precast concrete septic pits, located as indicated on attached RDM-1.

The single compartment solids tank shall be:

- One 1000 US gal. pre-cast concrete septic pit, single chamber, Barkman Concrete Septic Tank Model P-1000 (or equal). Total capacity of 983 gal. (4471 L).
- Tank shall conform to CAN/CSA-B66-M90. Compressive strength of the concrete shall be 25.0 MPa. Concrete to be sulphate resistant Type 50. Walls to be 4" thick.
- Reinforcement shall be 10M billet steel, grade 400 and 6" x 6" 10/10 W.W.M.
- Inlet device shall not extend more than 125mm into liquid.
- Burial depth to be 7'.
- Tank to be complete with access hole extension and heavy duty steel lid with heavy duty hasp suitable for securing with a padlock.

The 2-compartment secondary tank shall be:

- One 1000 US gal. pre-cast concrete septic pit, dual chamber, Barkman Concrete Septic Tank Model P-1000 (or equal). Total capacity of 983 gal. (4471 L), retention chamber capacity 745 gal. (3370 L), pump-out chamber capacity 238 gal. (1100 L).
- Tank shall conform to CAN/CSA-B66-M90. Compressive strength of the concrete shall be 25.0 MPa. Concrete to be sulphate resistant Type 50. Walls to be 4" thick.
- Reinforcement shall be 10M billet steel, grade 400 and 6" x 6" 10/10 W.W.M.
- Inlet device shall not extend more than 125mm into liquid.
- Burial depth to be 7'.
- Tank to be complete with access hole extension and heavy duty steel lid with heavy duty hasp suitable for securing with a padlock.
- Provide two inlets into the pump-out chamber. One inlet shall be used for the redundant pump-out hose.

3. In lieu of the sump pumps PU-1&2 and the controls specified, supply and install self-priming utility pumps located on concrete pump pads in the mechanical room. Pumps and controls shall meet the following specifications:

- Pumps shall be Monarch BSE-S100 (or equal) effluent pump, 50 gpm @ 45' head per pump, 1 hp, 3450 rpm, 230V/1ph, 1-1/4" inlet/outlet, semi-open cast-iron impellers (3/4" solids handling), self-priming, Viton seal.
- The pump set shall include one strainer. Strainer to be in clear chamber to enable visual checking.
- Each pump shall be controlled with individual mechanical liquid level controls, Model MFC15, 15 meter.
- High level alarm to be Model 850H-50 high level alarm panel with float sensor and 50' cord. Panel to be steel enclosure with horn alarm, red warning light, and re-set switch. Label alarm panel as indicated on the original drawings.
- Low level alarm to be Model 850L-50 with float sensor and 50' cord.



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Assiniboine Park  
Duckpond Shelter Renovation  
Septic Tank & Pumps  
Notes & Specifications

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SCALE: AS NOTED

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