



County of Lethbridge Policy Handbook

EFFECTIVE: Oct 14, 1997 **SECTION:** 400 **NO. 404 Pge 1 of 4**
APPROVED BY: County Council **SUBJECT:** Local Improvements
REVISED DATE: Nov 24, 1997 **Water & Wastewater Installations**

The purpose of this Policy is to establish minimum guidelines required for Local Improvements, Water and Wastewater Installations.

This is a temporary policy until a complete Standards Manual is Developed for all Local Improvements.

1. All group residential or commercial developments planning installation of water and or wastewater facilities (Local Improvements) shall adhere to this policy's guidelines.
2. All proposals shall be reviewed and approved by the County of Lethbridge, Superintendent of Municipal Services and the Water & Wastewater Supervisor.
3. All proposals and construction documents shall include detailed construction plans and detailed specifications.
4. All documents provided shall have the supporting documentation of specialized consultants. (i.e. soils, hydrological, coating consultants, structural or mechanical expertise etc.) **All materials used shall be CSA approved.**
5. All proposals must meet the proposed guidelines of Alberta Environmental Protection, **and have documented approvals before construction commences. (Copies supplied to the County)**
6. Approved Installations:
Reservoirs and Lagoons
 - Earthen structures (reservoirs or lagoons) must include detailed documentation and testing results and recommendation by a qualified consultant.
 - Clear water storage reservoirs shall be constructed of reinforced concrete only. Coated steel will only be accepted if a Coating Consultant provides specifications, constant inspection and certified reports.

Treatment Facilities

- Treatment processes must meet Alberta Environmental Protection guidelines.
- All exposed piping material in a treatment facility shall be epoxy coated or galvanized steel. (All coatings and/or galvanizing shall be inspected by a Coating Consultant, approved by the County of Lethbridge. All inspections shall be paid by the Developer.
- All exposed metal shall be coated or made of a material which is non-corrosive.



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- All manholes shall be constructed of reinforced precast concrete, water tight, complete with base, top, cast manhole cover and ring and non-corrosive ladder.

Wastewater Treatment Systems

- Systems shall be approved by Alberta Environmental Protection.
- Consultants detailed approved design will be considered by the County.
- All piping, valves, exposed metal and fittings within the treatment facility shall be constructed of a non-corrosive material.
- Coating Consultants approved by the County shall provide **specifications, constant inspection and certified reports** for corrosive resistant material where required.

Wastewater Lift Station

- Only two well systems will be approved, one dry well for pumps and controls and one wet well for wastewater collection.
- Both wells shall be ventilated continually.
- Two pumps shall be installed controlled alternating or both and designed for sewage (such as Flyt or equivalent).
- Lift stations shall be alarmed c/w auto dialer and flashing beacon.
- Example of alarms at a minimum are:

Call Alarms

- Pump failure; wet well; high level; dry well; high water level etc.

Next Day Internal Alarms

- Backup pump, ventilation fan failure etc.

- All piping, valves, fittings and exposed metal shall be corrosive resistant.
- A coating consultant approved by the County shall be used where required.
- Permanent equipment shall be installed for pump removal and servicing.

Conclusion of Policy

In conclusion any and all facilities shall have:

1. Detailed documented as built drawings.
2. Equipment, valves and fittings specifications.
3. A "detailed operations manual" provided by the Consultant approved by the County upon completion.

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4. A detailed Completion Certificate, certified by the Consultant.
5. **All components, equipment, valves, pipe and fittings etc. shall be CSA certified.**