

# LAGRANGE COUNTY REGIONAL UTILITY DISTRICT

## GUIDELINES FOR INSTALLATION OF BUILDING SEWER TO GRINDER PUMP UNITS

The following guidelines shall apply for all residential, commercial, industrial, and institutional users connecting to the LaGrange County Regional Utility District (LCRUD) sanitary sewer system. These guidelines cover construction of sewer laterals from serviced structures to the grinder pump units.

1. Before building sewer excavation or construction begins, the property owner and/or contractor must apply for and receive a sewer connection permit.
2. The cost of the permit is \$70.00 as referred to in the Ordinance and includes inspection.
  - A. Sewer connection permits can be obtained at the LCRUD office at 116 E Wayne Street, LaGrange, IN 46761
3. Before building sewer excavation or construction begins, it shall be the responsibility of the property owner and/or contractor to have all underground utilities located by calling Indiana Underground Plant Protection Service (IUPPS) at 1-800-382-5544. There is a 48-hour advance notice prior to the commencement of any excavation, as required by Indiana Code.
4. The lateral to the grinder pump can be installed by the homeowner per the District guidelines.
5. Prior to final connection to the collection system, it shall be required to disconnect all non-waste producing unites from the sewer line (i.e. sump pumps, foundation drains, roof down spouts, etc.).
  - A. Under no circumstances may groundwater or rainwater be discharged into the sanitary sewer system. Excess groundwater and/or rainwater getting into the system either through leaky joints or direct connections greatly reduces the design capacity of the treatment plant for the sanitary wastes. Further, it uses up the future capacity of the treatment plant so that other dwellings or businesses cannot hook on to the collection system.
  - B. For these reasons all building sewers shall be constructed new from within three (3) feet of the building structure to the sanitary grinder pump. The inspector will check specifically for this before approving the installation of the building sewer, which may require the inspector's entrance into the building and/or basement.
  - C. It is the responsibility of the contractor to have arrangements made at the time of the inspection for entrance into the structure by the LCRUD inspector.

6. Also, under no circumstances may sand, grit, grease, oils, solvents, gasoline or any other such substances be discharged into the sanitary sewer system. Grease traps may be required for some installations.

7. Property owners will be responsible for the maintenance of the building sewer from the building to the grinder unit. Strict adherence to these guidelines is essential in order to prevent costly future maintenance problems and higher sewer fees.

8. Property owner and/or contractor must comply with the LaGrange County Regional Utility District Sewer Use Ordinance and Sewer Rate Ordinance. Violations of the ordinances and/or these guidelines can result in the imposition of a fine.

9. Any modifications to plumbing shall be performed in accordance with Local and State code. **All connections from the grinder pump to the District line must be made by an Indiana State Licensed Plumber.**

## MATERIALS

1. Building sewers shall be SDR 21 and fittings shall have elastometric joints, conforming to the requirements of ASTM F-77 and ASTM D-3212 standards, commonly called “push-on” joints.

2. Glued joints are **NOT** permissible.

3. All joints shall be watertight.

4. Pipe shall be SDR-21 or greater quality.

5. Bedding the pipe with sand or pea gravel is required from **4” below the pipe to 6” above the top of the pipe.**

6. Pipe must be bedded for inspection however inspectors will require inspection of pipe material and joints. **Clay and rock backfill is unacceptable.**

## INSTALLATION

1. Building sewers shall be installed using the shortest and most direct route to the grinder pump.

2. Interior plumbing modifications are recommended rather than excessive changes of directions in building sewer.

3. A 4" vent is required if no plumbing vent has been installed in the house.
  - A. The vent shall be located within 4' of the building on the building sewer and should extend approximately 2' above grade.
  - B. The vent must incorporate a stainless steel screen and removable top section (see Figure 1). Note, this vent can also be utilized as a cleanout.
4. A cleanout will be installed in conjunction therewith for routine maintenance.
5. Sewer cleanouts shall also be installed a maximum of every 100 feet along the building sewer. Accessible cleanouts shall be installed at every change of direction.
6. Cleanouts shall extend to grade, pipe liners (frost sleeves) are recommended to be placed around the clean out grade extension.
7. The cleanout shall be a full size tee fitting installed with proper riser directed to above grade and fitted with accessible/removable lid/cap.
8. Cleanouts shall be the same diameter as the lateral sewer pipe, with a minimum size of 4 inches in diameter.
9. Cleanouts shall be covered with a removable type plug or cap.
10. A back-flow prevention valve will be installed where two or more building structures are connected to the same grinder unit, **but is recommended on all connections**.
  - A. The back-flow prevention valve shall be installed on each lateral on connections to a double grinder pump.
  - B. The back flow prevention valve shall be installed between structure and cleanout wherever possible.
11. All fittings shall be installed to guide sewage in the direction of flow. There shall be no:
  - A. Elbows greater than 45 degrees. If a change in direction greater than 45 degrees is required, two (2) 45-degree elbows shall be used.
  - B. It is suggested that a clean out be installed between the 45-degree elbows.
  - C. The riser may be used to connect but you must use a sweep tee to connect to vertical riser, but the bottom temporary plug must be converted to an approved ASTM fitting.

12. The building sewer piping shall be 30 inches below grade whenever possible, and shall be placed with a uniform slope of at least 1/8 inch per foot.

13. All existing septic tanks, holding tanks and outhouses must be properly abandoned.

14. Under no circumstances shall connection to building sewer be made through septic tanks.

15. The homeowner and/or contractor is to cut and remove the existing solvent weld cap from the end of the existing grinder unit gravity line stub and connect the new building sewer to it, using a suitable watertight coupling as required and compatible with the new pipe materials. Note, only a Fernco coupling, or a Mission coupling is allowed on the building sewer.

16. **Prior to backfilling** over the building sewer installation, all construction shall be:

A. Inspected and approved by the inspector from LCRUD for verification of compliance of minimum standards for design, material, and workmanship. Any building sewer backfilled prior to inspection approval shall be required to be re-excavated for proper inspection and approval. Contact LCRUD at 260-351-2163, giving twenty-four (24) hours notice, to schedule inspection.