

ORDINANCE 2006-2

AN ORDINANCE AMENDING TITLE 18 OF THE
CITY OF BELLE MEADE CODE BOOK RELATIVE TO
PRESSURE SEWER REGULATIONS

BE IT ORDAINED BY THE CITY OF BELLE MEADE, as follows:

Section 1. The following are additions, changes or substitutions to the City of Belle Meade's Pressure Sewer Regulations, regulating the use of public and private sewers and drains, private sewage disposal, the installation and connection of sewers to structures and the discharge of waters and wastes into the sanitary sewer system, as follows:

Addition or replacement of "Definitions" in Chapters 2 and 3, as follows:

Section 18-201: Definitions:

Add the following definitions, as follows:

(22) "As-built drawing" shall mean a drawing prepared by the Contractor and checked by the Belle Meade's Collection Systems Operator in conjunction with the Permit, and shall show the "As-Built" location of the pressure sewer installation.

(23) "Downspout" shall mean the leader or pipe above ground, which is installed to conduct storm water from the roof gutter or any structure.

(24) "Licensed Pressure Sewer Contractor" shall mean any person, partnership, corporation or association duly qualified and competent to do work incidental to the construction or repair of pressure sewers under permits issued under these regulations and who shall have been duly licensed and bonded with the State of Tennessee and the City of Belle Meade.

(25) "Permit" shall mean an application on the printed form issued in duplicate by the Belle Meade's Collection Systems Operator prior to construction or repair of any pressure sewer.

(26) "Private Sewer" shall mean a Sewer, exclusive of Pressure sewers, which are neither owned nor operated by the City of Belle Meade.

(27) "Residential Structure" shall mean a single-family structure or a multiple family structure.

(28) "Sewage or Domestic Wastes" shall mean water-carrying waste discharged from the sanitary facilities of structures occupied or used by people.

(29) "Pressure sewer" shall mean a conduit system (pressure or gravity) extending from the plumbing system of a structure(s) to and connecting with a Public or Private Sewer Main.

(30) "Storm Water" shall mean rainfall, or waters on the surface of the ground or underground resulting from rainfall or other natural precipitation.

(31) "Wastewater" shall mean water-carrying wastes containing either or both sewage and industrial waste.

Replace 18-201(15) in its entirety, "Sewer", as follows:

(15) "Sewer" shall mean a conduit designed or used to transport Wastewater, and into which Storm Water, surface and ground waters are not intentionally admitted.

Section 18-301: Definitions:

Add the following definition, (in alphabetical order), as follows and re-letter the existing remaining definitions (s) thru (pp) to (t) thru (qq).

(s) "Industrial Waste" shall mean any liquid, solid, or gaseous substance, or combination thereof resulting from any process of industry, manufacturing, commercial food processing, business, trade, research, or development.

Addition or replacement of "SECTIONS" in Chapters 1 or 2, as follows:

Replace Section 18-103 in CHAPTER 1 in it's entirety and replace, as follows:

18-103. Obtaining Service. (1) When permit must be obtained:

A Pressure Sewer Permit shall be applied for and issued by the Belle Meade's Collection Systems Operator prior to any work being constructed, added to or repair of a pressure sewer either on private property or within public rights-of-way and copy filed with the Building Official. Applications for Pressure Sewer Permits must be submitted at least 48 hours prior to pressure sewer installation. If any portion of the installation is within the City of Belle Meade's right-of-way, allow time for issuance of a right-of-way excavation permit.

A sewer permit is valid for 12 months. All information regarding the installation of a pressure sewer shall be obtained from the Belle Meade's Collection Systems Operator. Any information on the installation relayed by the Owner to the Contractor shall be in writing or on a plan, and such information shall be presented at the time application for a permit is made.

(2) Person who must apply for permits:

The Owner of the property to be served, or the Owner's authorized agent will make application for a Pressure Sewer Permit personally.

(3) Material required for the permit application:

In making an application for a Pressure Sewer Permit, the Owner or authorized agent shall furnish a site plan showing the size and location of structures on the property, the Owner's name, address, and legal description of the property to be served. The full course of the proposed pressure sewer from the public sewer in the street to the structure shall be shown on the plan. Where easements are required, they shall be obtained at the Owner's expense and filed with the City Recorder. Prior to issuance of the permit, a copy of the recorded easements shall be given to the Belle Meade's Collection Systems Operator.

(4) Permit fees:

Prior to the issuance of any permit, all fees identified on the application shall be paid to the City of Belle Meade.

(5) Work in a public right-of-way:

A permit that includes pressure sewer work in a public right-of-way may be issued only to a licensed pressure sewer contractor. The Owner shall reimburse the Belle Meade's Collection Systems Operator for all costs of City, County, and State permits and inspections. Pressure sewer contractors shall contact One-Call for utility locations. The phone number is available at the Belle Meade's Collection Systems Operator office.

(6) Unauthorized work:

No work shall be started on any private or pressure sewer without a permit. No Licensed Pressure Sewer Contractor shall do any pressure sewer work under any other person's permit.

No person shall do any pressure sewer work under a Licensed Pressure Sewer Contractor's Permit, except as may be otherwise authorized by the Belle Meade's Collection Systems Operator. If work is started on any private or pressure sewer without a permit or authorization from the Belle Meade's Collection Systems Operator, a fine of \$1,000 can be levied against the violators.

(7) Time of issuing permit:

No permit will be issued for a pressure sewer connection before the Belle Meade's Collection Systems Operator has accepted the public or private sewer.

(8) Permit availability:

The Contractor's copy of the Pressure Sewer Permit and pressure sewer plan shall be readily available on the job to the Inspector of the Belle Meade's Collection Systems Operator. No inspection will be made unless such permit and plan is readily available on the job site. The contractor shall be responsible for all additional costs incurred by the Belle Meade's Collection Systems Operator for additional inspections.

(9) Responsibility of Pressure Sewer Contractor:

The licensed pressure sewer contractor shall be responsible for abiding by all the requirements of the City of Belle Meade Sewer Regulations.

(10) Failure to comply with permit provisions:

If any work done under a Pressure Sewer Permit is not in accordance with provisions of these Regulations, and if the Contractor or person doing the work fails and/or refuses to properly construct and complete such work, notice of such failure or refusal shall be given to the Owner or Occupant of the property. The Belle Meade's Collection Systems Operator may cause said work to be stopped. The Owner and/or Contractor shall be responsible for all additional costs incurred by the Belle Meade's Collection Systems Operator related to Owner's and/or Contractor's failure to properly complete the work. If the Belle Meade's Collection Systems Operator incurs costs, it will be billed out for time, material and 15% administration charges.

If the work in the opinion of the Belle Meade's Collection Systems Operator constitutes a hazard to public safety, health, or the public sewer, the Belle Meade's Collection Systems Operator may complete such work. The cost of such work and any materials necessary therefore shall be charged to the Owner and/or Contractor and shall be payable by the Owner and/or Contractor immediately upon written notice given by the Belle Meade's Collection Systems Operator of the amount or by posting a notice on the premises.

(11) The owner desiring to extend, repair, replace or make connection to existing sewers or pressure sewers inside property lines:

No person shall extend, repair, replace or make connections to a public, private or pressure sewer within the property lines without first obtaining a permit from the Belle Meade's Collection Systems Operator, calling for utility locates, and requesting proper inspection of the work by the Belle Meade's Collection Systems Operator as herein authorized.

(12) Additional work – new permit required:

When an existing structure is removed and a new structure is constructed, or an alteration affecting the pressure sewer is made, a new permit is required. Any existing pressure sewer that does not meet the current existing Regulations shall be replaced. No work shall be done without approval and inspection of the Belle Meade's Collection Systems Operator as herein required.

(13) Completion of work in a public right-of-way:

All work within the limits of any public right-of-way shall be completed promptly and in compliance with City Requirements. If such work is not in compliance with governing agency's Right-of-Way Requirements, any costs incurred to bring such work into compliance and to restore the right of way, shall be charged to the Licensed Pressure Sewer Contractor in charge of such work, and shall be payable immediately to the City of Belle Meade upon written notification to the Contractor.

ADD THIS AS SECTION 18-104, AND RE-NUMBER SUBSEQUENT EXISTING SECTIONS:

18-104. Location of main sewer WYES: (1) Connection of the pressure sewer shall be made to the wye or tee designated at the time the pressure sewer permit is issued, unless written permission to do otherwise is obtained from the City.

(2) Excavation:

Excavation shall be made at the measurements furnished by the City of Belle Meade, to the best of their records, for the location of the wye or tee. The locations of existing wyes or tees are usually shown on as-built drawings furnished to the Belle Meade's Collection Systems Operator by others. The City of Belle Meade makes no warranty, express or implied, about the accuracy or completeness of such as built drawings.

(3) Prospecting for WYE:

If the wye or riser cannot be located with the measurements as furnished by the Belle Meade's Collection Systems Operator, the licensed pressure sewer contractor shall prospect four feet in all directions from the distance and depth given. If such prospecting fails to disclose the wye the Contractor shall immediately contact the City of Belle Meade and report the circumstances.

18-1 ____ . ADD THIS SECTION AS A PART OF THE RENUMBERED "INSPECTION" SECTION; AS FOLLOWS:

(1) Inspection and testing of pressure sewer installations – gravity:

a) Call for inspection:

Arrangements for inspection of a pressure sewer installation shall be made with the City of Belle Meade 48 hours in advance. The Belle Meade's Collection Systems Operator reserves the right to set the time for inspections.

Pressure sewer permits must be obtained from the Belle Meade's Collection Systems Operator prior to scheduling an inspection.

All inspections will be performed during normal working hours. Cancellations must be made a minimum of one hour before the scheduled appointment. Additional inspection may result in additional fees.

b) Testing of final installation – gravity pressure sewer:

Pressure sewers shall be tested their entire length from the cleanout at the lower end of the line by testing for visible leakage before backfilling by inserting a removable plumber's plug in the cleanout at the lower end of the line and filling the line with water to six (6) feet above its highest point. The contractor shall make this test before calling for inspection so that the inspector can observe and approve the installation in one visit. The licensed pressure sewer contractor or job foreman must be present at the job during the inspections. Testing apparatus and water shall be furnished by the licensed pressure sewer contractor. Visible leakage shall be corrected and the line shall be retested. All pressure sewer trenches must be maintained in a safe condition according to the regulations and requirements.

c) Rate of Leakage:

No loss.

d) As-built drawings:

As-built drawing shall be prepared by the Contractor and checked by the Belle Meade's Collection Systems Operator Inspector in conjunction with the Permit, and shall show the as-built location of the side.

(2) Inspection and testing of pressure sewer installations – pressure:

a) Call for inspection:

Arrangements for inspection of a Grinder Pump installation shall be made with the City of Belle Meade 48 hours in advance. The Belle Meade's Collection Systems Operator reserves the right to set the time for inspections. Pressure sewer permits must be obtained from the City of Belle Meade prior to scheduling an inspection. All inspections will be performed during normal working hours. Cancellations must be made a minimum of at least two hours before the scheduled appointment. Additional inspections may result in additional fees.

b) Testing of final installation – grinder pump:

Pressure sewers using pump systems shall be tested at 80 psig (twice the pressure rating of the pump system), or as directed by the Belle Meade's Collection Systems Operator for actual conditions. Following is the procedure used for testing the discharge line:

- 1) Close the in-line ball valve in the grinder valve box.
- 2) Open the riser ball valve in the grinder valve box.
- 3) Close the ball valve at the collector valve box for the street connection.
- 4) Using hand pump, pressurize with water, introduced at the low end, to test for leakage.
- 5) Hold the required pressure for ten minutes. Allowable leakage = 0

c) As-built drawings:

As-built drawings shall be prepared by the Contractor and checked by the Belle Meade's Collection Systems Operator Inspector in conjunction with the Permit, and shall show the as-built location of the side

(3) Restoration:

a) Restoration within a city, county, or state right-of-way:

It shall be the responsibility of the Licensed Pressure Sewer Contractor to restore the roadway surfacing within the limits of any public thoroughfare or right-of-way. Such work shall be conducted in strict accordance with the rules and regulations of the agency having jurisdiction of said thoroughfare or right-of-way.

b) Restoration where not prescribed by city, county, or state:

The licensed Pressure Sewer Contractor shall follow City of Belle Meade Specifications.

c) 1) Clean up:

The licensed Pressure Sewer Contractor shall remove all debris and excess excavation and shall notify the City of Belle Meade of any damage and shall repair such damage, in public or private property, in kind immediately after backfilling.

2) Safety equipment:

The licensed pressure sewer contractor, before beginning excavation in a public area, shall have at the site sufficient barricades to properly protect the work. The barricades shall be illuminated during the night-time hours in accordance with Right-of-Way regulations and requirements. During the pipe laying operation, a ditch pump shall be readily available on-site for immediate use. The Contractor shall install Trench Safety Systems as required by State and Federal Regulations.

THEN CONTINUE WITH REMAINING RENUMBERED EXISTING 18-1 _____ SECTIONS!!!

ADD THESE SECTIONS IN CHAPTER 2 NUMBERING THEM, AS FOLLOWS:

18-208. Minimum Requirements and installation for pressure sewers – gravity.

(1) Grade:

All pressure sewers shall be laid on a grade of not less than $\frac{1}{4}$ inch per foot (2%).

(2) Foundation:

Pressure sewers parallel to the foundation wall of any building shall be laid not less than thirty (30) inches therefrom.

(3) Minimum surface cover for pipe:

a) Minimum cover for pressure sewers on private property shall be eighteen (18) inches.

b) Minimum cover for pressure sewers at property line shall be eighteen (18) inches.

c) Minimum cover for pressure sewers crossing a ditch in the public right of way except as otherwise provided herein, shall be eighteen (18) inches.

(4) Water line crossings:

Parallel water and sewer lines shall be laid at least ten horizontal feet apart wherever possible. Where it is necessary for sewer and water lines to cross, the crossing shall be made at an angle of ninety (90) degrees and the sewer shall be located eighteen (18) inches or more below the water line if possible. Where pressure sewers must cross over water mains, the pressure sewer shall be sleeved with PVC sleeve with mechanical joints for a distance of at least five (5) feet each way from the center of the water main.

(5) Other underground facilities:

No other underground facilities shall be installed closer than three (3) feet horizontally to the pressure sewer line as installed.

(6) Fittings:

All changes in directions shall be made with $\frac{1}{8}$ bends (45 degrees), $\frac{1}{16}$ bends (22-1/2 degrees) or wye branches with straight through opening plugged for a cleanout. Not more than two bends shall be installed between cleanouts. Cleanouts, including those for commercial property, shall be installed at locations designated by the Belle Meade's Collection Systems Operator in accordance with the Pressure Sewer Regulations. A test tee shall be provided at the point of connection to the sewer main, and at any other required point or points in order to insure that all portions of the pressure sewer or private sewer can be tested. All uncompleted risers, cleanouts, castings and concrete blocks shall be installed by the licensed pressure sewer contractor and raised to grade after final paving.

(7) Laying of pipe:

All sewers shall be laid true to grade with the bells up grade. Pipe shall be cradled in the prepared trench bottom. Pipe shall be carefully centered prior to jointing. The licensed pressure sewer contractor shall over-excavate and prepare bedding in accordance with Belle Meade's Collection Systems Operator. Backfilling of trenches shall be carefully performed by hand to a depth of six (6) inches above the pipe with bedding material to avoid damaging the pipe.

All backfill in the public right-of-way shall be mechanically compacted in a manner approved by the Belle Meade's Collection Systems Operator unless otherwise required by the agency that has jurisdiction over the public right-of-way.

(8) Cut-in connection:

Where a wye or tee is not available, a saddle tee shall be used in accordance with Pressure Sewer Regulations. The pipe cut-in shall be carefully made with a hole-saw of appropriate size, and the bottom half shall be filed smooth. Belle Meade's Collection Systems Operator personnel must inspect the hole before the saddle is installed. If the pipe becomes cracked during the cut-in, the damaged section shall be replaced to the satisfaction of the Belle Meade's Collection Systems Operator. If the type of wye or tee provided in the sewer does not match the proposed pressure sewer pipe joint detail, a short transition piece shall be joined to the wye branch or tee by means of a transition gasket of the type used in the sewer. The balance of the pressure sewer shall then be constructed with compression type flexible gaskets up to the point of connection with the house plumbing.

Connection to the house soil pipe shall be made by means of flexible clamp-type coupling or other method approved by the Belle Meade's Collection Systems Operator. All connections must be clean and visible during inspection.

(9) Impossibility of gravity flow minimum elevation:

In any structure in which the plumbing drain is too low to permit gravity flow to the sewer, the sewage shall be lifted by artificial means and discharged into the sewer.

Wherever a situation exists involving an unusual danger of backup, the Belle Meade's Collection Systems Operator may prescribe the minimum elevation at which the structure drain may be discharged to the sewer. Sewers below such minimum elevation shall be lifted by artificial means, or if approved by the Belle Meade's Collection Systems Operator, a backwater sewage valve may be installed. The effective operation and maintenance of the backwater sewage valve shall be the sole responsibility of the customer.

18-209. Minimum requirements and installation of pressure sewer-pressure.

(1) All pump installations must meet all building, plumbing, and electrical codes, and shall have the Belle Meade's Collection Systems Operator's approval prior to installation.

(2) Pipe:

Unless otherwise called for, pressure sewer pipe shall be high-density polyethylene plastic pipe (HDPE SDR 11) and meet the following specifications.

- a) Base Resin: Conform to all requirements of ASTM D 48, Type III, Class C, Category 5, Grade P34, with a PPI rating of PE 3408.
- b) Melt Index: Less than 0.25 grams/10 min. as determined by ASTM D 1238, Condition E.
- c) Environmental Stress Check Resistance: No cracks after 192 hours at 100 C as determined by ASTM D 1693, Condition C.
- d) Rating: Long-term hydrostatic strength of 1450 psi and hydrostatic design stress of 730 psi as determined by ASTM D 2837.
- e) Working Pressure Rating: 145 psi.
- f) Laboratory Test Requirements: Withstand without failure a minimum burst pressure of 560 psi when applied in 60 to 70 seconds with water at 730 F. Test in accordance with ASTM D 1599. Test one percent but not more than three lengths.

(3) Fitting and joints:

Joints shall be flanged, or thermal fusion butt-welded. Joints, in pipes with a diameter of 2-inch or less, shall be made only at pump basins, valves, fittings and changes in pipe diameter. For pipes larger than 2-inch in diameter, joints between pipe sections shall be thermal fusion butt-welded. All flanges and fittings shall be thermal fusion butt welded to the pipe. Internal beads from welding at flanges and fittings of 2-inch and smaller diameter pipes shall be removed. Operators of fusion welding equipment shall be trained by the pipe manufacturer, who shall certify that operators are qualified. All fittings will be HDPE SDR 11 or minimum of SCH 40 PVC where noted on Belle Meade's Collection Systems Operator Standards.

(4) Laying of pipe between grinder tank and street connection:

A pressure sewer from the grinder valve box to the collector valve box shall have a minimum cover of 18-inches and shall be HDPE SDR 11 Pipe and shall be equipped with tracer wire for locating purposes. Tracer wire shall be insulated 12-gauge wire (solid core) wrapped around the pipe and looped through the valve box from the collector valve to the grinder cleanout. Refer to Belle Meade's Collection Systems Regulations for current details. Unless otherwise indicated, it is unnecessary to bed this pressure sewer.

(5) Cut-in connection:

Where a collector valve box is not available at the property line an HDPE SDR 11 tee shall be cut in to the existing pressure sewer main and thermal fusion butt-welded. A collector valve box assembly shall be placed at the property line. The Pressure sewer Contractor doing this type of connection shall be certified in thermal fusion butt welding techniques.

(6) Connection into gravity line:

Where an HDPE pressure sewer is connecting into a PVC pressure sewer, the pressure sewer contractor shall install a pressure line connection, including 6-inch cleanout assembly, at the property line and then make a connection into the gravity pressure sewer according to Pressure Sewer Regulations.

(7) Connection into gravity manhole:

Where an HDPE pressure sewer is connecting into a gravity manhole, the pressure sewer contractor shall install an inside drop connection on those manholes deeper than 6 feet. In manholes less than 6 feet deep, the connection must match the crown elevation of the outfall pipe.

(8) Backfilling around vaults and valve boxes:

Vaults and Valve Boxes shall be placed on backfill that has been compacted to a minimum of 90% of maximum theoretical density. Backfilling shall be performed carefully so that no damage is done to pipe entering or exiting the vault or valve or to the vault or valve box. The Belle Meade's Collection Systems Operator may direct the contractor to use special backfill techniques when it deems necessary.

(9) Grinder pump installation:

The grinder sewer pump shall be an Environment One Model 2010 as supplied by Correct Equipment, Inc., 14576 NE 95th Street, Redmond, WA 98052. Contact Howard Taub at (425) 869-1233.

Contact the Belle Meade's Collection Systems Operator for a pre-construction meeting for pump tank and control panel locations before any installation. Contractor shall determine the depth of the existing building sewer discharge before any installation, to determine if a 5 ft. or 10 ft. deep tank will be suitable.

The grinder pump lift station package shall include the following items:

- a) Sewage grinder pumps, semi-positive displacement type, equal to Environment One progressive cavity with a 1 HP, 1800 RPM motor.
- b) Corrugated HDPE tank with single complete pump unit, ready for installation.
The tank will have a 1-1/4 NPT discharge connection and a 4-inch inlet grommet **specifically sized to fit the PVC pipe as defined in Section 7.10 (a).**
- c) The tank shall include an internal check valve assembly.
- d) A breaker panel as supplied by Environment One, with two 15 amp breakers for pump operations, one 15 amp breaker for the alarm system, a *Push to Run* button, an audible alarm with *Silence Button*, and a red light alarm. All wires and connectors are to be color coded and labeled for ease of installation.
- e) A minimum of 21-feet of direct bury cable (Supply Cable) between the tank and breaker panel.
- f) The pump system operates on two pressure switches. One switch operates the pump on/off and the second operates the alarm.
- g) The package system shall meet the requirements of the Washington State Department of Labor & Industries, Division for Residential, grinder pump systems.
- h) The electrical supply to the breaker panel shall be 240-volt single-phase power.
- i) The tank location shall be accessible for maintenance and repair. The tank cover shall be approximately 3 inches above finished grade. Finish grade shall slope away from the station and the station shall not be installed within a "pot hole". No plants, fences, or other obstructions are to be located within 5 feet of the tank and the valve boxes, and the property owner shall maintain a 5 foot clear zone around the tank and no construction above the tank.
- j) The location of the breaker panel shall be:
 - Accessible for maintenance and repair,

- In sight of the tank,
 - The bottom of the Panel must be 5 feet from finished grade, and
 - The Alarm light shall be visible from 50 feet and must be visible in a 180-degree radius.
- k) The maximum distance between the Breaker Panel and the grinder tank shall be 25 feet, and with sight and easy access.
- l) The Breaker Panel shall be equipped with a knife-type lock out switch. The lockout switch shall be visible from the tank.
- m) Fences, bushes, or any other object shall not hide the alarm light or hinder in the maintenance and/or repair of the system.
- n) There shall be no additional junction boxes or splices made once the system has been installed and inspected by Belle Meade's Collection Systems Operator. Anyone tampering with the approved system shall be liable to the City of Belle Meade for any expense, loss, damage, cost of inspection or cost of correction incurred by the Belle Meade's Collection Systems Operator, plus a penalty not to exceed \$1,000.00.

18-210. Pressure Sewer Contractor Licensing: (1) Introduction:

Any pressure sewer contractor intending to do business within the City of Belle Meade shall meet the following requirements.

(2) General Qualifications:

A pressure sewer contractor must be licensed and bonded with the State of Tennessee to conform with the nature of the work. A Pressure Sewer Contractor must provide the Belle Meade's Collection Systems Operator with proof of these licenses and bonds as per the *Continuous Performance Bond*.

(3) Insurance:

A Pressure Sewer Contractor must have an insurance certificate naming as additional insured the City of Belle Meade, 4705 Harding Road, Nashville, Tennessee. The insurance certificate must include the provision that such insurance shall not be canceled without at least forty-five (45) days written advance notice to the City of Belle Meade. This insurance certificate must be in the amount of:

Property damage liability \$500,000 each occurrence
 \$1,000,000 each aggregates
 Bodily injury liability \$500,000 each person
 \$1,000,000 each occurrence
 OR
 Combined Single Limit of \$1,000,000 per occurrence/aggregate

(4) Hold Harmless:

A Pressure Sewer Contractor shall execute a document whereby they shall hold harmless, indemnify and defend the City of Belle Meade from any and all claims against the City of Belle Meade as a result of their work done within the City of Belle Meade pursuant to these regulations.

(5) Continuous Performance Bond:

A Pressure Sewer Contractor shall supply the City of Belle Meade with a continuous performance bond in the amount of \$2,500.00 in order to work on pressure sewer installations within the City of Belle Meade. A sample-approved form is available at the City of Belle Meade office. The bond is to protect the City of Belle Meade in its obtaining road opening permits from the County and for other jurisdictional agencies, and to guarantee the completion of the pressure sewer installation. The bond shall include in its terms a certification that it will not be canceled without at least forty-five (45) days written advance notice to the Belle Meade's Collection Systems Operator.

18-211. Maintenance and/or repair of pressure sewer installation by other than the City of Belle Meade:

1. Pressure sewer cleaning:

All pressure sewer cleaning contractors and/or plumbers, licensed pressure sewer contractors and/or owners, prior to or while actually engaged in cleaning existing pressure sewers (as distinguished from plumbing and septic tank facilities), shall notify the Belle Meade's

Collection Systems Operator of such operations, which are located within the service area of the City of Belle Meade.

2. Excavation and/or modification of pressure sewer installations:

No pressure sewer cleaning contractor, plumbers, licensed pressure sewer contractors, or owners shall excavate for the purpose of exposing a pressure sewer and such persons shall make no repair or modification to an existing pressure sewer (including the cutting of holes in the pipe line and/or installation of additional fittings) until notification has been given to the Belle Meade's Collection Systems Operator and a permit has been obtained from the Belle Meade's Collection Systems Operator.

3. Demolished or removed buildings:

The property owner or their contractor engaged in demolishing or removing any structure connected to the public sewer shall notify the City of Belle Meade of such work and shall expose and plug the pressure sewer connection of such structure at the property line in accordance with the requirements of the Pressure Sewer Regulation. The Belle Meade's Collection Systems Operator must observe such plugging.

18-212. (1) Precautions to avoid damage: In addition to the notification requirements of T.C.A. § 65-31-106, each person responsible for any excavation or demolition operation designated in § 65-31-104 shall:

- a) Plan the excavation or demolition to avoid damage to and minimize interference with underground utilities in and near the construction area.
- b) Maintain a clearance between an underground utility and the cutting edge or point of any mechanized equipment in accordance with § 65-31-108(b) and (d), taking into account the known limit of control of such cutting edge or point, as may be reasonably necessary to avoid damage to such utility.
- c) Provide such support and protection for underground utilities in and near the construction area, including during backfill operations, as may be reasonably necessary for the protection of such utilities.
- d) Each utility, regardless of the use or material, shall be installed with sufficient clearance to permit the maintenance of existing utilities and to protect against damage to existing utilities.

2. Damage to Collection System property:

When damage occurs to the Collection System or to any other City sewer property by the acts of the customer or the customer's agent, or by the act of any non-utility party, the City of Belle Meade shall bill said party for the cost of repairing such damage. The cost may include, but shall not be limited to materials, labor, utility equipment charges, cost of subcontracting repairs, and twenty-five percent overhead.

The City of Belle Meade is not liable for damage to its' utility lines when a request for utility marking has not been received from Tennessee One Call at least three working days prior to digging.

If said grinder system is damaged during construction this will constitute replacement of said system with the fixture units of more than 20 units, a duplex will be required to be purchased by said homeowner/contractor.

3. Fixture Units Chart Value:

<u>Fixture</u>	<u>Fixture Unit Value</u>
Bathtub with 1 ½ " trap	2
Bathtub with 2" trap	3
Bidet with 1 ½" trap	3
Combination sink and wash tray with 1 ½" trap	3
Combination sink and wash tray with food waste grinder unit (separate 1 ½ " trap for each unit)	4
Drinking fountain	½
Dishwasher, domestic type	2
Floor drain	1
Kitchen sink, domestic type	2
Kitchen sink, domestic type with food waste grinder unit	3
Lavatory with 1 ½ " waste plug outlet	2

Lavatory with 1 ¼" or 1 3/8" waste plug outlet	1
Lavatory, multiple type (was fountain or wash sink) per each equivalent Unit	2
Laundry tray (one or two compartment)	2
Shower stall	2
Showers (group) units per head	3
Sink (flushing rim type, direct flush valve)	8
Sink (service type with floor outlet trap standard)	3
Sink (service type with P trap)	2
Sink (pot, scullery or similar type)	4
Urinal (1" flush valve)	8
Urinal (¾" flush valve)	4
Urinal (flush tank)	4
Water closet (direct flush valve)	8
Water Closet (flush tank)	4
Unlisted fixture, 1 ¾" or less fixture drain or trap size	1
Unlisted fixture, 1 ½" fixture drain or trap size	2
Unlisted fixture, 2" fixture drain or trap size	3
Unlisted fixture, 2 ½" fixture drain or trap size	4
Unlisted fixture, 3" fixture drain or trap size	5
Unlisted fixture, 4" fixture drain or trap size	6

For continuous or intermittent flow into a drain, as from a pump, ejector, air conditioning equipment or similar equipment, a fixture unit value of 2 shall be assigned for each gallon per minutes of flow at rated capacity.

18-213. Wastes other than Domestic or Industrial. The discharge into any sewer by direct or indirect means of any of the following is hereby prohibited:

- a) Subsoil Foundation Drains.
- b) Footing Drains.
- c) Window Well Drains.
- d) Door Well Drains.
- e) Yard Drains.
- f) Unroofed Basement Floor Drains.
- g) Overflows from unpolluted water storage facilities.
- h) Clear water from refrigeration, reverse-cycle heat pumps and cooling or air-conditioning equipment, except for the periodic draining and cleaning of such Systems.
- i) Roof drains or downspouts from areas exposed to rainfall or other precipitation.
- j) Surface or underground waters.
- k) Any liquid or vapor having a temperature higher than 150 degrees Fahrenheit.
- l) Any waste that contains more than 100 parts per million by weight of fat, oil, or grease.
- m) Any gasoline, benzene, naphtha, oil, or other flammable or explosive liquid, solid, or gas.
- n) Any garbage that has not been properly shredded and diluted with water.
- o) Any ashes, cinders, sand, mud, straw, hair, shavings, metal, glass, rags, feathers, tar, plastics, wood, or any other solid or substance capable of causing obstruction to the flow in sewers or improper operation of the sewage works.
- p) Any waste having a pH lower than 5.5 and higher than 8.5 or having any other corrosive property capable of causing damage or hazard to the structures, equipment or personnel of the Belle Meade's Collection Systems.
- q) Any waste containing a toxic or poisonous substance in sufficient quantity to injure or interfere with any sewage treatment process.
- r) Any waste containing suspended solids of such character and quantity that unusual attention or expense is required to handle such materials in the public sewer system or at the sewage treatment plant.
- s) Any obnoxious or malodorous gas or substance capable of creating a public nuisance.
- t) Septic tank effluent or sludge, except from the City of Belle Meade's approved Collection Systems.

18-214. Connection of Cesspools, Septic Tanks, Traps, and Interceptors.

(1) Direct connection from the plumbing fixtures in the structure to the public or private sewer is required.

(2) Any connection to a cesspool or septic tank will be removed, and proper connection directly made to the new pressure sewer. Cesspools or septic tanks shall be abandoned as per the City of Belle Meade's Sewer Regulations.

(3) An approved grease trap or grease interceptor shall be installed where it is necessary to protect the City of Belle Meade's sewer system. All non-residential facilities must meet the requirements of the City of Belle Meade's Sewer Regulations and the State of Tennessee's Industrial Waste Program for legal fats and/or oil and grease discharge to sewers, whichever is more stringent. All commercial or industrial facilities, schools, churches, or other non-single family residential facilities that have food service facilities shall be equipped with 1000-gallon (minimum) grease interceptors. Submit sizing calculations for Belle Meade's Collection Systems Operator to review and approve. All commercial building pads with unidentified or potentially variable uses must be provided with a grease interceptor at the time of initial construction. Provide graywater plumbing to building pad(s).

18-215. Violations: (add the following to the renumbered "VIOLATIONS" section)

4. Violators:

Any person who shall violate any provision of this Pressure Sewer Regulation shall be liable to the City of Belle Meade for any expense, loss, damage, cost of inspection or cost of correction incurred by the Belle Meade's Collection Systems Operator.

5. Notice of violation:

Any person violating any provision of this Pressure Sewer Regulation shall be notified by written notice of such violation and shall respond within ten (10) working days of the date of the written notice for the satisfactory correction thereof.

6. Civil Penalties and Remedies:

(a) Any person who violates any provision of this chapter is subject to a fine not exceed fifty (\$50.00) dollars per day for each day in which the violation continues, without correction, after the expiration of the notice period provided above.

b) Any excavator who violates the provisions of this chapter may be issued a citation by any local law enforcement officer or permitting agency inspector, and the issuer of such citation may require the excavator to cease work on any excavation or not to start a proposed excavation until there has been compliance with the provisions of this chapter.

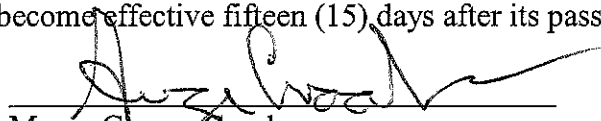
(c) If, after receiving proper notification the City of Belle Meade fails to locate its facilities and an underground facility is damaged by an excavator who has complied with the provisions of this chapter, and such damage is a proximate result of the City of Belle Meade's failure to discharge its duty, then such excavator shall not be liable for such damage.

7. Validity savings clause:

If any section or portion of this Pressure Sewer Regulation or any application thereof is adjudged invalid, such adjudication shall not affect the validity of the remaining portions of this Pressure Sewer Regulation or other applications thereof.

Section 2. This Ordinance shall become effective fifteen (15) days after its passage.

Passed on first reading:
February 15, 2006



Mayor George Crook

Passed on second reading:
March 15, 2006



City Recorder Dorothy L. Wheeler