

2021-0173

**INTRODUCED BY: MATTHEW JEWELL, PARISH PRESIDENT
(DEPARTMENT OF PUBLIC WORKS/WASTEWATER)**

ORDINANCE NO. 21-7-1

An ordinance to amend the Code of Ordinances for the Parish of St. Charles, Appendix C, Subdivision Regulations of 1981, Section IV. Design standards. B. Sewer Systems. 3. Acceptance Test to include new language for testing of new wastewater infrastructure.

THE ST. CHARLES PARISH COUNCIL HEREBY ORDAINS:

SECTION I. That the Code of Ordinances, Appendix C, Section IV. Design standards. B. Sewer Systems. 3. Acceptance Test. is hereby amended as follows with new text in underline and deleted text in ~~strikethrough~~:

B. Sewage Systems.

3. Acceptance Test for new Pipe: Deflection, Lamp Testing and Video Inspection:

No infiltration is allowed within the gravity sanitary sewer system (Manholes, Mains, and Service Connections).

~~a. Unless previously approved by the Parish Engineer, all gravity and force main tests shall be pressure tested in accordance with all St. Charles Parish standards. In addition, all existing sanitary sewers shall be subject to infiltration, air pressure, and/or exfiltration tests, or a combination thereof in accordance with the requirements of the Parish Engineer.~~

~~b. When the Engineer elects the use of the infiltration test, the infiltration rate shall not exceed two hundred fifty (250) gallons per inch of diameter per mile per twenty four (24) hours.~~

- A 5% deflection mandrel shall be used to perform the deflection testing for all new sewer gravity lines.
- Deflection testing shall be performed no sooner than 31 days after the pipe has been installed and all backfill operations completed.
- Deflection testing shall be performed after all infrastructures, including the compacted roadway foundation, have been installed.
- Deflection testing of all gravity lines and submittal of a deflection testing report by an approved lab is required prior to final inspection.
- The owner, his agent or the contractor shall contact the Department of Public Works/Wastewater 48 hours in advance for the inspection of the deflection mandrel test.
- The mandrel shall be pulled through the pipe by hand to ensure that maximum allowable deflection have not been exceeded.
- Lamp test of all sewer gravity lines shall be performed by the Department of Public Works/Wastewater during final inspection.
- The contractor shall perform cleaning and video inspections of all new sewer gravity lines (mains and service connections) installed as part of final inspection. Sewer line cleaning and video inspection shall be performed after all infrastructure, including the compacted roadway foundation, has been installed. Sewer line cleaning and video inspection shall be done as per Department of Public Works/Wastewater latest "Video Inspection" specifications. Copies of these video inspections shall be sent to the Department of Public Works/Wastewater.

~~4. The subdivider shall be required to make payment to the Parish for sewer development connection fees, required for newly subdivided property. All fees shall be in accordance with Parish ordinances.~~

4. Video Inspection Specifications

a. The developer shall furnish all labor, equipment, supplies, and supervision and shall perform all work required in accordance with these specifications.

b. Inspection of sewer infrastructure by means of CCTV equipment shall be performed to determine the location and extent of any obstructions and defects such as offset joints, protruding tees, broken pipe, and other pipe defects that may permit groundwater infiltration. Logs shall note the

- existence of any significant defects. Cleaning by the developer shall be performed prior to each CCTV inspection on each pipeline to be inspected.
- c. CCTV inspections shall be performed on one manhole-to-manhole pipe segment at a time. The inspection shall be performed by moving the CCTV camera through the line along the axis of the pipe at a rate not to exceed 30 feet per minute. Any means of propelling the camera through the sewer that would exceed this rate of speed or produce non-uniform or jerky movements shall not be acceptable. The camera shall be stopped for a minimum of 5 seconds at each identifiable defect to ensure proper documentation of the lines condition. In addition, the camera shall be stopped at each service connection, and the camera shall pan the service connection to video inside the service line. CCTV inspection is performed from the upstream manhole to the downstream manhole when the conditions allow. If conditions do not allow an upstream to downstream inspection, the inspection will be performed in reverse (from the downstream to the upstream manhole).
- d. A log shall be made by the developer when each manhole-to-manhole pipe segment is televised. The log shall include at a minimum:
- (1) Location of each point of leakage
 - (2) Location of each service connection or other pipe entering the televised line
 - (3) Location and degree of offsets
 - (4) Location of any damaged sections, and nature of damage
 - (5) Location of buried structures or blind junctions
 - (6) Location and amount of any deflection in alignment or grade of pipe; also the total length of pipe sag
 - (7) Pipe materials, diameter, and distance between pipe joints
 - (8) Date, city, manhole-to-manhole segment, reference manhole number, name of operator, and inspector
 - (9) Video Filename
- e. The pipe segment length, with respect to the referenced manhole, shall be determined with a meter device, accurate to within $\pm 2\%$. Markings on the cable, instruments requiring observation inside a manhole, or correction of each reading for the depth of the reference manhole shall not be allowed. Accuracy of the measurement meters shall be checked daily by use of a walking meter, roll-a-tape, or other suitable device.
- f. A header screen showing tape number, segment number, and manhole number shall be taped for 10 seconds at the beginning of each televised line segment. All header information shall be recorded on the log forms.
- g. CCTV Inspection of Service Laterals
- (1) Developer will use a lateral launch inspection system, consisting of a robotic tractor and a lateral launch CCTV camera, to remotely deploy a pan & rotate camera into lateral pipes connected to a mainline sewer pipe.
 - (2) A main sewer television camera is used to position the lateral camera launcher. The lateral sewer camera is used to inspect each lateral from the mainline towards the cleanout.
 - (3) The television inspection of the lateral will be attempted from inside the mainline sewer up into the lateral or attempted from the cleanout towards the sewer main. Lateral sewers inspected from the cleanout towards the mainline will be attempted by using a mini push camera if necessary.
- h. Data Submittals
- (1) All line pictures will be digital .mpeg video, clear, legible and free of "snow" or haze.
 - (2) Electronic copies (data files) shall be submitted in a PACP Exchange Database.
 - (3) To establish the working criteria for video picture quality which must be maintained throughout the project, the developer shall furnish a DVD with .mpeg video footage of an actual sewer line inspection that is satisfactory to the department of wastewater. This DVD shall become the property of the department of wastewater.
 - (4) The developer shall furnish the department of wastewater a hard drive or DVD that contains both data files and video files. The data files shall be able to upload into a PACP Exchange Database. Once downloaded

by the department of wastewater, the hard drive will be returned to the developer.

(5) All inspections shall be made by PACP certified operators and data shall be documented using NASSCO's Pipeline Assessment and Condition Program.

5. The subdivider shall be required to make payment to the Parish for sewer development connection fees, required for newly subdivided property. All fees shall be in accordance with Parish ordinances.

The foregoing ordinance having been submitted to a vote, the vote thereon was as follows:

YEAS: BILLINGS, DARENSBOURG GORDON, CLULEE, GIBBS, DUFRENE, BELLOCK, FISHER

NAYS: NONE

ABSENT: FONSECA, FISHER-PERRIER

And the ordinance was declared adopted this 26th day of July, 2021, to become effective five (5) days after publication in the Official Journal.

2021-0173 Sewer Systems 2021-3-ORD Ordinance

CHAIRMAN:

Marileen Bellock

SECRETARY:

Michelle Dupatay

DLVD/PARISH PRESIDENT: July 27, 2021

APPROVED: _____ DISAPPROVED: _____

PARISH PRESIDENT: Math Jewell

RETD/SECRETARY: July 28, 2021

AT: 8:20am RECD BY: [Signature]