

City of Hutto - Wastewater Notes

Updated August 2018

1. Wastewater systems shall be constructed in accordance with the City of Hutto Engineering Design Manual, standard specifications and standard details.
2. No curvilinear wastewater design/layout is permitted.
3. All wastewater service, and valve locations shall be appropriately marked as follows:
 - A. Wastewater Service "S" on top of curb
 - B. Valve "V" on top of curb
4. Tools for marking curbs shall be provided by the Contractor. Other appropriate means of marking service and valve locations shall be provided in areas without curbs. Such means of marking shall be specified by the Design Engineer and approved by the City of Hutto.
5. Thrust blocking and restraints shall be in accordance with City of Hutto standard specifications.
6. Mandrel testing will be required on all wastewater pipe as per City of Hutto construction specifications.
7. All gravity wastewater mains to be field-tested for water tightness and video taped by camera so sooner than 30-days after total completion of wastewater lines. Two digital copies shall be provided to the City before closeout.
8. Hydrostatic pressure and leakage tests shall be performed on all pressure pipelines carrying wastewater.
9. All manholes shall be tested for leakage separately and independently of wastewater lines by hydrostatic exfiltration testing or other City approved method per City of Hutto construction specifications.
10. Existing manholes shall be tested for leakage prior to coring or adjustment.
11. Existing manholes shall have all concrete surfaces cleaned and coated per City of Hutto wastewater details after coring or adjustment.
12. All newly installed pipes and related products must conform to American National Standards Institute / National Sanitation Foundation Standard 61 and must be certified by an organization accredited by ANSI.
13. Pipe material for pressure wastewater mains shall be PVC (AWWA C900, MIN. DR 14), or Ductile Iron (AWWA C151, MIN. CLASS 350). Ductile iron for pressure wastewater mains shall have a corrosion resistant interior lining acceptable to owner. Pipe material for gravity wastewater mains shall be PVC SDR-26, ASTM D-3034.
14. All PVC pipe (all types and SDR/DR wall thickness to be used) shall have rubber gasket equipped bell and spigot joints conforming to ASTM D-3212. The gasket material shall conform to ASTM F-477. Solvent welded joints **will not** be approved for this project.
15. All sanitary sewer facilities and potable waterlines must be installed so as to provide a minimum of nine feet of clearance in any direction between them. Where the nine foot separation distance cannot be achieved, follow these special procedures.

- A. If a collection system pipe parallels a public water supply pipe the following requirements apply:
 - I. A collection system pipe must be constructed of cast iron, ductile iron, or PVC meeting ASTM specifications with at least 150 pounds per square inch (PSI) pressure rating for both the pipe and joints.
 - II. Vertical separation must be at least two feet between the outside diameters of the pipes.
 - III. Horizontal separation must be at least four feet between outside diameters of the pipes.
 - IV. Collection system pipe must be below water supply pipe.
 - B. If a collection system pipe crosses a public water supply pipe, the following requirements apply:
 - I. If a collection system is constructed of cast iron, ductile iron, or PVC with a minimum pressure rating of 150 PSI, the following requirements apply:
 - a. A minimum distance of six (6) inches between outside diameters of the pipes.
 - b. A collection system pipe must be below a public water supply pipe.
 - c. Collection system pipe joints must be located as far as possible from an intersection with a public water supply line.
 - II. If a collection system crosses over a public water supply pipe, each portion of a collection system pipe within nine feet of a public water supply pipe must be constructed of cast iron, ductile iron, or PVC pipe with a pressure rating of at least 150 PSI using appropriate adapters.
16. An independent qualified lab, at the Contractor's expense, shall perform quality testing for all wastewater pipe installed and pressure hydrostatic testing of all water lines constructed. The contractor shall provide all equipment (including pumps and gages), supplies, and labor necessary to perform the tests. A City of Hutto Construction Inspector must be present for all testing.
17. The Contractor shall provide the design engineer and the City not less than 24 hours notice prior to performing sterilization, quality testing, or pressure testing.
18. The Contractor shall not open or close any valves unless authorized by the City of Hutto.
19. All valve boxes and covers shall be cast iron per City of Hutto standard details.
20. All manholes shall be concrete with cast iron ring and cover. All manholes located outside of pavement shall have bolted and gasketed covers. Concrete manholes to be coated per standard detail and construction specifications. Tapping of fiberglass manholes shall not be permitted.
21. All wastewater piping and fittings shall be virgin stock.
22. All mechanical restraints shall be installed per manufacturer's specifications.