

R.O.W. Sewer Inspection Checklist
General Design Standard
Section 5, Pages 1-4, Section 9, Pages 1-2 and Section 10, Pages 1-2

- Minimum size of sewer main is 8"; minimum size of sewer lateral is 4"
- Maximum flow velocity 10 ft/sec; minimum flow velocity 2 ft/sec
- Separation distances of water and sanitary sewer mains shall conform to TCEQ
 - New water and sewer mains shall not be closer than 9'
 - If closer than 9' the sewer shall be pressure type pipe with watertight joints
 - In no case shall the outside of pipe be closer than 4'
- Minimum depth 4' from top of pipe to top of ground
- Sewer main shall be SDR 35 PVC green in color, for mains within 9' of waterline
SDR 26 PVC pressure pipe green in color
- Sewer lateral shall be PVC Schedule 40, SDR 35 PVC green in color or SDR 26 PVC green in color
- Locate laterals 10' down stream of water service at a maximum 6' depth and plugged
- Contractor shall install property line cleanout at property line
- Curb shall be cut with two 3" notches and an "S" painted on curb above sewer in red stencil
- Minimum trench width 24" or outside diameter of pipe plus 16"
- All trenches subject to Chapter 9 of GDS
- Excavation protection required for the trenches in excess of five (5) feet deep, including all additional excavation, backfill, pavement reconstruction and repair made necessary by the protection system (shoring)
- All embedment is per GDS
- Back fill select or granular material compacted to 95% density with a +4% above optimum moisture content in one 4' lift and remaining in 6" lifts to grade
- Manhole is required when a 6" or larger lateral is connected to the main
- All manholes are accessible for City maintenance. Manhole covers located in easements and remote areas shall be painted red with appropriate bollards installed per GDS
- Manholes shall contain an external manhole chimney seal by Cretex Specialty Products or an Infishield shrink-wrap or equal
- External drop manhole is required when inflow elevation is more than 18" above outflow elevation. Connections to existing manholes shall be core drilled
- Curb shall be cut 1" wide, and 4" high red letters "MH" and "CO" painted on the curb
- Manholes shall be 5' diameter minimum for sewer mains up to 27"
- Testing of sanitary sewer mains, lines and manholes per Section 10 of GDS
- As-built drawings are verified for accuracy daily
- Verify that all manholes are accessible for City maintenance
- Taps to sewer main shall be angled downstream