

SANITARY SEWER SYSTEM PLAN REQUIREMENTS CHECK LIST

GENERAL REQUIREMENTS

1. Correct sheet size (24" x 36").
2. Vicinity Map.
3. Location Map.
4. Index to drawings.
5. List of quantities.
6. List of agencies, including surveyor, soils engineer and all involved agencies for the project.
7. General notes. (Refer to Appendix Item 2.)
8. Professional Engineer, State of Colorado, seal and signature on every sheet.
9. North arrow on vicinity map, location map and each plan view.
10. Title block on each sheet.
11. Bench mark, including U.S.G.S. datum, location, elevation and monument type.
12. Street alignment, existing and proposed, shown on overall plan.
13. Street names.
14. Horizontal curve data for street centerline and all curbs shown on plan, or recorded plat included in plan set.
15. Street grades, existing and proposed shown on profile.
16. Typical street cross-section(s).
17. Street addresses for all lots and/or buildings indicated on plan, or address plat included in plan set.
18. Lot and block numbers.
19. Front lot dimensions.
20. Property, easement and tract lines shown on plan.
21. Private improvements identified.
22. Existing improvements identified.
23. Match lines and sheet references called out in plan and profile.
24. Street cross-pans shown.
25. Center line of drainage channel(s) shown.
26. 100-year flood plain limits shown.
27. Estimated construction cost and proposed development build-out schedule submitted.
28. Recorded plat and address plat submitted.
29. Project in conformance with overall sanitary sewer master plan.

SANITARY SEWER REQUIREMENTS

A. General

1. Sewer line horizontal alignment generally 10' south and west of street centerline; 5' min. from flow line; 10' min. from R.O.W. line.
2. All sewer lines shown in both plan and profile.
3. Manning formula hydraulic data including Q, V, D, d/D, S and n, indicated at connection(s) to existing system. Number and type of units and per unit average and peak flows.
4. Sewer easement drawings and legal descriptions submitted with Professional Land Surveyor, State of Colorado, seal and signature affixed.
5. Sanitary sewer system notes included (refer to attached).
6. Sanitary sewer system details included.
7. Service wye locations, including size, manhole reach, lot or building number, stationing from nearest downstream manhole, right of left side connection looking upstream and the invert of the main at wyes and plugs shown in tabular form on the plans.
8. Note on plans: "No connections to existing system shall be made until the new lines have been tested and accepted by the District".

B. Sewer Plan View

1. Scale: 1" = 50'
2. Pipe size and material called out.
3. Bearings and linear footage between manholes called out along sewer reach.
4. Outside angles between sewer reaches called out at manholes (deflection angle).
5. Sewer lines dimensioned from street centerline or property line, and from other utilities, curb and gutter and other obstructions.
6. Connection(s) to existing system shown on plan and tied to property corner or section corner.
7. Manholes properly numbered on plan.
8. Directional flow arrows shown.
9. Service line connections shown (service lines within easements not allowed).
10. At least a 10' workable easement margin on each side of the sewer line.
11. Manhole markers included for sewer line outside of paved R.O.W.
12. Match lines and sheet references.
13. All utility improvements, including water lines and storm sewer, shown on plans.

C. Sewer Profile View

1. Scales: 1" = 50' (horizontal)
1" = 5' (vertical)
2. Manholes properly numbered and stationed.
3. Pipe size, linear footage and grade called out between manholes.
4. Sewer line grades checked.
5. 1% minimum slope on dead-end mains.
6. Invert elevations for all entering and exiting pipes, rim elevations, cuts and drop inverts called out at the manholes.
7. Sewer service table showing lot number, station from downstream manhole, invert of sewer main at service and left or right side service included.
8. Inside manhole drop between inverts of highest entering pipe and lowest existing pipe not to exceed 1-1/2".
9. Connections to existing system shown on profile.
10. Crossings with other utilities shown on profile (1-1/2' minimum edge-to-edge separation)
11. Match lines and sheet references.