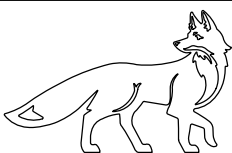


Sanitary Sewer Materials:

- 1) Exterior Drop Connections: Drop connections shall be constructed of Ductile Iron Pipe, Class 52 or PVC SDR 26, per manufacturer specifications. All drop manhole piping shall be encased in concrete (refer to City standard drop manhole detail).
- 2) Frames & Lids: Frame: Neenah R-1713 or R-1916C in Floodplain
Lid: Neenah R-1713 or R-1916C type "B" with the words "City of St. Charles - SANITARY" cast into surface
- 3) Joints: All joints shall conform to ASTM D-3212 for PVC pipe and ASTM A-746 for ductile iron. Both pipe types shall be joined by means of a flexible gasket. Gaskets for PVC joints shall be in conformance with ASTM A 21.11-79 (AWWA C111).
- 4) Manholes: Sanitary manholes are to be precast reinforced concrete eccentric type, with a minimum 48" I.D. barrel section; Cone sections shall have a 3" integrally cast precast concrete collar; Pipe penetrations are to be sealed via the use of a cast in place flexible synthetic rubber pipe sleeve which is to be fastened to the pipe with two stainless steel bands. Barrel sections shall be sealed using a butyl rubber strip on the tongue and groove section as well as an external joint seal. Chimney seals are to be external type only. All new or adjusted steps shall be made of steel reinforced plastic, using an approved plastic meeting ASTM D4101, Type II, Grade 49108 over a #3 Grade 60, ASTM A615, reinforcing bar. A maximum of 8" of adjusting height is allowed; no more than two adjustment rings shall be used (refer to City standard sanitary manhole detail). Barrels and cones shall be bituminous coated.
- 5) Services: Sanitary services shall be constructed for all buildable lots. Services shall be constructed of PVC SDR 26 pipe, six (6) inch minimum diameter, and shall be extended to the rights-of-way limits. All connections to the public main shall be at a manhole or at a "we" fitting approved by Public Works Division. Once installed, all services extending to the City right-of-way limits shall be securely capped and located utilizing a 2" x 4" wooden stake, painted red.
- 6) Thrust Blocks (force main): Thrust blocking shall be a combination pre-cast masonry blocks and "Mega-lug" brand restraints, or approved equal.



CITY OF ST. CHARLES
ILLINOIS • SINCE 1834
Pride of the Fox

SANITARY SEWER MATERIALS

DATE: 2-10-2022

NOT TO SCALE

REVISED:

DRAWING NO. A-06