

Memorandum

To: Developers, Engineers, and Contractors
From: Joint Sanitary Sewer Technical Committee
Date: May 27, 2016
Subject: New Sanitary Sewer Standards

One of the Intergovernmental Joint Sanitary Sewer Technical Committee (SSTC) functions is to periodically review and update the sanitary sewer construction standards created back in 1992 to reflect the current best practices for sanitary sewer construction.

The SSTC started its review of the “Sanitary Sewer Standards of the Urbana & Champaign Sanitary District and Affiliated Communities, Champaign, Urbana, and Savoy” in 2015 and has completed incorporating revisions to those standards. The effective date of this latest edition will be July 1, 2016. The new standards have been approved unanimously by the SSTC Committee and signed by authorized representatives of each municipality.

The latest standard is now posted on the Urbana & Champaign Sanitary District website, <http://www.ucsd.com>. Please push the “Technical Standards” button to access the latest standards. The July 1, 2016 standard supersedes all previous editions.

A listing of the revisions included in the new sewer construction standards is provided in Attachment A.

Please contact Mark Radi, Director of Engineering Services, Urbana & Champaign Sanitary District at (217) 367-3409 with any questions or comments you may have regarding this.



URBANA &
CHAMPAIGN
SANITARY
DISTRICT

ATTACHMENT A – JULY 1, 2016 REVISIONS TO SANITARY SEWER TECHNICAL STANDARDS

#	Revision	Explanation
1.	Eliminated extra strength vitrified clay as an allowable pipe material.	Vitrified clay pipe is not a widely utilized material in sanitary sewer construction.
2.	Eliminated gasketed PVC truss pipe as an allowable pipe material.	Gasketed truss pipe is not a widely utilized material in sanitary sewer construction.
3.	Added SDR 26 solid wall PVC pipe per ASTM DF670 as an allowable pipe material for 18-inch through 60-inch.	Committee approved pipe material for sanitary sewer construction.
4.	Added centrifugally-cast fiberglass-reinforced polymer mortar pipe per ASTM D3262 as an allowable pipe material for 18-inch through 60-inch.	Committee approved pipe material for sanitary sewer construction.
5.	Require that a minimum of a five-foot diameter manhole with an internal drop configuration for new drop manholes. Internal drop shall be RELINER® drop bowl system or Engineer Approved Equal.	Committee determined that internal drop assemblies are easier to maintain and repair than external drop assemblies.
6.	Allows a four-inch service pipe to be lined one time resulting in a final internal diameter of less than four-inches.	Committee determined that cured-in-place pipe lining of a four-inch lateral was an acceptable practice.
7.	Allows the installation of VAC-A-TEE® by LMK or Engineer Approved Equal for a clean-outs on service pipes.	Committee approved VAC-A-TEE product for service pipe construction. Reduces excavation required for clean-out installation.
8.	Added that a lined main tap from LMK or Engineer Approved Equal is required for a service pipe connection to vitrified clay sewer that has a cured-in-place pipe liner installed inside it.	Committee determined that the LMK lined main tap was the preferred way to connect a service pipe to a lined sewer pipe.
9.	Added the requirement that pipe couplings shall be non-shear type, Fernco 500 Series Strong Back Couplings or Engineer Approved Equal.	Intended to eliminate offset problems at coupling locations.
10.	Eliminated lamp testing of sewer pipe.	Committee determined that mandrel testing was a more appropriate testing method than lamp testing for flexible pipe.

ATTACHMENT A – JULY 1, 2016 REVISIONS TO SANITARY SEWER TECHNICAL STANDARDS - CONTINUED

#	Revision	Explanation
11.	Added mandrel testing of sewer pipes.	Committee determined that mandrel testing was a more appropriate testing method than lamp testing for flexible pipe.
12.	Eliminated pavement repair specifications from the standards. Now require that pavement repairs shall conform to the requirements of the agency with jurisdiction over right-of-way or easement where the sewer is installed.	Committee agencies each have their own pavement repair requirements per right-of-way ordinance.
13.	Eliminated penalty system for minimum constructed slopes.	Improvements in technology have largely eliminated pipe slope issues experienced in the past. If pipe slope does not meet minimum requirements the sewer must be replaced rather than a penalty paid.
14.	Added specifications for manhole adjustments in paved areas.	Committee wanted to establish how manhole adjustments were handled on street resurfacing, street reconstruction, and pavement preservation projects.
15.	Manhole Detail -Title of detail was changed from “UCSD INTERCEPTOR SEWER MANHOLE DETAIL” to “SANITARY SEWER MANHOLE DETAIL”.	Intended to show that manhole detail is applicable to all sanitary sewer manholes constructed not just UCSD manholes.
16.	Manhole Detail – Added note “FOR ALL SANITARY MANHOLES WITHIN THE URBANA & CHAMPAIGN SANITARY DISTRICT”.	Intended to show that manhole detail is applicable to all sanitary sewer manholes constructed not just UCSD manholes.
17.	Manhole Detail – Added allowance for greater than nine-inches of manhole adjusting rings contingent upon approval of the authority having jurisdiction	Committee determined that there might be some manhole installation locations where more than nine-inches of grade adjustment is warranted.
18.	Manhole Detail - Added that adjusting rings must be expanded polypropylene (EPP) or Engineer Approved Equal.	Committee determined that EPP adjusting rings were preferred over concrete adjusting rings for manhole construction.
19.	Manhole Detail -Manhole wall thicknesses were revised.	Wall thicknesses in previous standards were incorrect.
20.	Manhole Detail –Eliminated groundwater elevation testing pipe.	Potential source of infiltration into manhole.
21.	Manhole Detail - Eliminated steps.	Committee determined that steps in the manhole were not desired by member agencies for safety reasons.