

City of Lawrence Department of Utilities
Annual Review
of
Construction Material Specifications, Design Criteria and Standard Details

Review Date: December 2011
Reviewed By: Utility Department Staff
Materials Reviewed: Construction Material Specifications:
 Section 2500 – Sanitary Sewer (8” to 18” Mains)
 Section 2900 – Waterlines
Design Criteria:
 Section 5500 – Sanitary Sewer (8” to 18” Mains)
 Section 5900 - Waterlines
Standard Detail Sheets:
 Sanitary Sewer
 Waterlines

Updates and corrections to the City of Lawrence Department of Utilities construction material specifications, design criteria, and standard details are as follows:

Section 2500 – Sanitary Sewer (8” to 18” Mains)

Section 2503.2.4.e	Removed reference to permit wye service connections with engineer’s approval.
Section 2503.2.6	Added section to specify material requirement for service saddles.
Section 2503.5.3	Removed reference to steel plate liner manufacturers.
Section 2906.2.7	Removed “unless otherwise approved by the Engineer”
Section 2506.2.10.a	Revised section to include provision for use of copper clad steel location wire.
Section 2906.2.10.d	Added section to specify use of Copperhead Industries LLC SnakePit magnetized tracer boxes, renumbered remaining section items accordingly.
Section 2906.2.10.e	Replaced 3M direct bury splice kit #054007-09964 with Copperhead Industries LLC Locking SnakeBite Wire Connector.
Section 2506.4.1.a.1	Replaced “encasement” with “casing”
Section 2506.4.2	Replaced “foreman” with “contractor”.
Section 2510.3.3	Revised section to specify epoxy system and added section 2510.3.4 to specify polyurethane system.
Section 2512.5	Revised standard bid item list to remove line item for plug, changed unit quantity to “EA” for adjustment of existing manhole, and revised “Construct standard manhole over existing SS” to “Standard Doghouse Manhole”.

Section 2900 - Waterlines

Section 2902.2	Corrected typographical error in numbering sequence.
Section 2902.3.1	Corrected ball valve curb stop reference to reflect section 2902.3.4.
Section 2902.3.12.a.1	Revised to reference screw type valve box, extension sleeve reference removed. Reference to Ametek mainline series removed.
Section 2902.3.12.b.2	Removed reference to Ametek mainline series.
Section 2902.5.7.b	Added JCM 439 as Mechanical Joint equivalent of JCM 432 tapping sleeve.
Section 2902.5.8.a	Reference to cross linked polyethylene piping (PEX) replaced with polyethylene tubing (PE pipe)
Section 2902.5.8.c	Updated 20" Midstates Plastics MS2030B meter box reference to Oldcastle 0020213.
Section 2902.5.9	Reference to cross linked polyethylene piping (PEX) replaced with polyethylene tubing (PE pipe).
Section 2902.7.1.a	Removed or equal qualification and added provision for use of copper clad steel location wire.
Section 2902.7.1.d	Replaced 3M direct bury splice kit #054007-09964 with Copperhead Industries LLC Locking SnakeBite Wire Connector.
Section 2902.7.2.a	Revised section to remove detectable requirement.
Section 2903.6.2	Added requirement to repaint hydrants following completion of installation.

Section 5500 – Sanitary Sewer (8” to 18” Mains)

Section 5502.3	Revised required number of plans from 4 to 3 and removed requirement for AutoCad files.
Section 5502.4	Revised required number of cover sheets from 4 to 3.
Section 5503.2.5.r	Revised wording of standard note.
Section 5503.3.8.c	Updated link to City GIS interactive map.
Section 5504.2.2	Updated minimum and maximum pipe slope tables to remove references to pipe diameters above 18”.
Section 5504.2.6	Minimum cover requirement revised to 30” for consistency with KDHE minimum cover requirements.
Section 5504.3.8	Revised reference to coating system section.
Section 5504.3.9	Revised note to reference requirements 9 through 11.
Section 5504.4.2	Revised minimum separation from end of stub to building to 5 feet.
Attachment B & C	Removed reference to calendar year 2009 from standard easement documents.

Section 5900 - Waterlines

Section 5902.1	Revised section to permit use of PVC or Ductile Iron for all watermains. Replaced reference to PEX with polyethylene tubing.
Section 5902.6	Revised language to require 15 foot easement when not adjacent to right-of-way or access easements.
Section 5903.4	Revised submittal requirements to remove requirement fo AutoCad files.
Section 5905.3	Added section to require 15 foot separation from building structure and 8 foot separation from all other structures. Renumbered remainder of section accordingly.
Attachment A & B	Removed reference to calendar year 2009 from standard easement documents.

Standard Details – Sanitary Sewer

Sheet 1 Removed references to CA-5, replaced with “granular embedment”.

Sheet 2 No changes.

Standard Details - Waterline

Sheet 1 Replaced all references to cross linked polyethylene with PE tubing.
Removed all product specific references to tracer wire and splice kits. Generic label of “tracer wire” and “tracer wire connector” used.
Added Note 5 to clarify the use of tracer wire on all polyethylene tubing service lines.
Updated note 2 to reflect use of Copperhead Industries LLC SnakeBite Locking Wire Connector.
Updated Note 3 to reflect provision for use of copper clad steel tracer wire.
Updated Note 4 to reflect removal of the detectable requirement for marking tape.

Sheet 2 Added notation for finished grade on typical trench section.
Removed all product specific references to tracer wire and splice kits. Generic label of “tracer wire” and “tracer wire connector” used.
Revised dimensions on waterline right-of-way crossing details.
Revised Fire hydrant detail to remove references to Duc-Lugs and All-Thread.