

STORM SEWERS

SECTION 2600 - STORM SEWERS

CITY OF LEE'S SUMMIT, MISSOURI
STANDARD SPECIFICATIONS

The City of Lee's Summit, Missouri's hereby adopts Section 2600 of the Kansas City Metropolitan Chapter of APWA Construction and Material Specifications, current edition. The following additions, deletions and/or revisions are adopted as a part of Section 2600 for use within Lee's Summit, Missouri.

2602.2 Materials

Delete Paragraph B and replace with the following:

Corrugated metal pipe shall not be used in the construction of public infrastructure. Storm drainage systems to remain privately owned and maintained may use corrugated Aluminized Steel Pipe

2602.2 Materials:

ADD the following

G. Polypropylene Pipe

- 1. Double wall polypropylene pipe shall have a smooth interior and annular exterior corrugations and conform to ASTM F2881 and AASHTO M330. Triple wall polypropylene pipe shall have smooth interior and exterior surfaces with inner corrugations and conform to ASTM F 2764. The pipe shall not be perforated unless otherwise specified.**
- 2. Pipe shall be joined with a gasketed integral bell and spigot joint meeting the requirements of ASTM F2881 for double wall pipe or ASTM F2764 for triple wall pipe.**
- 3. Coupling bands shall cover at least two full corrugations on each section of pipe and shall prevent the infiltration of soil into the pipe.**

2602.3 Construction:

2602.3.B.5.d Structure Connections – Laying and Jointing

REVISE to read as follows:

Pipes connected to structures shall be cut parallel with the inside face of the structure for structures having plane walls and parallel with the spring line of the pipe for structures having curved walls. Projection of the pipe beyond the inside face shall not exceed **3 inches** (measured at the springline for structures having curved walls). **When installed, all gaps and openings intended to be closed, shall be sealed with grout, concrete or other approved material.**

2604.2 Materials (for storm sewer structures):

2604.2.A – Concrete Mixes

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REVISE to read as follows:

“Concrete for structures and structural components shall be KCMMB 4k or 5k mix; or MCIB 4,500 psi or 5,000 psi mix. Nominal aggregate shall be 1-inch or larger. Concrete used for soil stabilization, pipe cradles, filling, leveling courses and other similar purposes may use smaller nominal aggregate sizes of 1/2-inch, 3/4-inch.”

2604.2 F – Manhole Castings and Metal Castings:

ADD the following

3. Metal Castings shall be selected from the current City of Lee’s Summit Public Works Approved Products List.

2604.3 Construction (for storm sewer structures):

2604.3.A.2 Finishing:

ADD the following

c. If an adjustment is required for the top slab which is less than or equal to 6 inches, the adjustment shall be made with non-shrink grout with a coating of cement on both faces, if the adjustment is greater than 6 inches, the adjustment shall be made with dowelled concrete. Dowels shall be bars embedded 6 inches into the walls. All reinforcement shall be the same size and spacing as the wall steel.

ADD the following:

2604.3.D. Cast-in-Place Box Culvert Support Slab:

Cast in place box culverts shall have a 3 inch thick grade slab cast under the bottom slab. The grade slab shall be at least as wide as the structure and shall stop short of the toe walls. Commercial grade concrete may be used with minimum 2500 psi compressive strength. The slab should be set with proper grade control to match the elevations required for the culvert.