

CITY OF LONGMONT
DESIGN STANDARDS AND CONSTRUCTION SPECIFICATIONS
LIST OF APPROVED MATERIALS
SECTION 400 – Wastewater Collection
MARCH 2019

1.0 GENERAL

- A. The following list of approved materials applies to all additions or modifications to the City of Longmont wastewater collection system. All materials shall be designed, manufactured and installed in accordance with Section 400 of the City of Longmont *Design Standards and Construction Specifications*.
- B. Proposed additions or changes to this list of approved materials shall be submitted to the City of Longmont in writing in accordance with Section 108 of the Standards and Specifications.

2.0 SANITARY SEWER MAINS

- A. Section 411 – Polyvinyl Chloride (PVC) Pipe (SDR-35, ASTM D-3034)
 - i. Acceptable manufacturers of unrestrained joint PVC pipe (SDR-35) are:
 - a. Diamond Plastic
 - b. North American Pipe
 - c. Vinyltech
 - d. JM Eagle
 - ii. Fusible PVC pipe will be considered on a case by case basis.
 - iii. Polyethylene pipe will be considered on a case by case basis.
- B. Section 412 – Ductile Iron Pipe (AWWA C151)
 - i. Acceptable manufacturers of lined ductile iron pipe are:
 - a. American Ductile Iron Pipe
 - b. McWane Ductile/Pacific States
 - c. United States Pipe and Foundry/Griffin Pipe
- C. Section 414 – Asbestos Cement Pipe
 - i. No asbestos cement pipe materials are allowed to be installed.
- D. Section 413 Vitrified Clay Pipe

- i. No vitrified clay pipe material is allowed to be installed.

3.0 FITTINGS, COUPLINGS, AND ACCESSORIES

A. Section 412 – Ductile Iron Fittings (AWWA C110)

- i. Acceptable manufacturers of ductile iron gasket fittings are:
 - a. Sigma
 - b. SIP Industries
 - c. Star Pipe
 - d. Tyler Union
 - e. U.S. Pipe and Foundry Company

B. Section 411 – PVC Fittings (ASTM D2729-17, F1336-15)

- i. Acceptable manufacturers of non-pressurized gasket PVC fittings are:
 - a. Diamond Plastic
 - b. North American Pipe
 - c. Vinyltech
 - d. JM Eagle
- ii. Applicable AWWA Standards and ASTM specifications for materials shall apply. No glued fittings and or joints are allowed

C. Section 415 – Flexible Couplings (ASTM D 5926)

- i. Acceptable manufacturers of flexible couplings are:
 - a. Can-Tex
 - b. C-T Adapters
 - c. Fernco
 - d. Jointers
 - e. Calder Couplings
 - f. Mission Couplings
 - g. Nashua Pre-Cast Corporation
 - h. Flex-o-joint

4.0 MANHOLES

A. Section 418 – Cast Lids and Frames

- i. Lid shall be Deeter pattern No. 1258 or approved equal within the street pavement or open field.

- ii. Lid shall be a smooth pattern within pedestrian and/or bike path (lid design to be approved before installation)

- C. Section 418 – Grout
 - i. All grout in manholes shall be non-shrink, non-metallic, pre-mixed or approved equal. Acceptable manufacturers of grout include:
 - a. Master Builders “Set Grout”
 - b. Sika Grout 212

- D. Section 418 – Preformed Plastic Gaskets
 - i. All preformed plastic gasket material shall conform to Federal Specification SS-S-00210, Rope Form, with primer on both surfaces of manhole joints. The material shall be rubberized not bituminous base. “Ram-Nek” is not acceptable.
 - ii. For 48 inch diameter manholes use 1 ½ inch wide material, for 60 inch diameter manholes and larger use a minimum of 2 inch wide material.
 - iii. Acceptable manufacturers of preformed plastic gaskets include:
 - a. Kent-Seal by Hamilton-Kent Manufacturing Co.
 - b. Rub’r-Nek by Henry Company LLC (formerly KT Snyder Co.)
 - c. G.S. #4, #5 or #79, General Sealants Inc.

- E. Section 418 – Pipe Penetration Gaskets (precast manholes)
 - i. Acceptable manufacturers include:
 - a. Kor-N-Seal by Dukor Company
 - b. PS-10 by Press Seal Gasket Corporation
 - c. A-Lok by A-Lok Corporation
 - d. Lock Joint Flexible manhole Sleeve by Interpace Corporation.

- F. Section 418.02 – Filter Fabric (trench stabilization)
 - i. Acceptable manufacturers include:
 - a. Dupont Typar Style 3301
 - b. Mirafi 140n
 - c. approved equal

END OF LIST