

September 6, 2019

**City of Lee's Summit
Development Center
220 SE Green Street
Lee's Summit, MO 64063**

Re: Application PL2019229, Engineering Plan Review

Mr. Williams:

BHC Rhodes has received your comments dated 09/05/2019 and have the following responses:

ENGINEERING REVIEW

1. Thrust blocks are called-out throughout the project, but the plans call for the use of restrained joints rather than thrust blocks. Please reconcile this discrepancy. However, **it appears thrust blocks will be required where the new water main is being connected to the old water main** (e.g., the north connection point, and the south connection point).
-Added note to Sheet 2 about City required thrust blocks at the connection points.
Clarified the reference to thrust blocks on Sheets 3 & 4.
2. Megalugs are not considered restrained joints. The note on Sheet 2, Note 4 appears to reference the use of Megalugs. In the City of Lee's Summit, Megalugs can only be used as a temporary measure during concrete thrust block curing, in order to allow the line to be brought back into service in a reasonable timeframe. Please see Section 3900 of the Design and Construction Manual for specific references to restrained joints, or alternatively, reference the City of Lee's Summit standards, with a note specifically prohibiting Megalugs as being considered restrained joints.
-Revised notes on Sheet 2.
3. What is the plan for abandonment of the water line that is to be taken out of service? If a water main is indicated for abandonment, it shall be abandoned by removal and backfill if required or by plugging each end of the line segment. To plug each end of the line segment, a section of pipe at least 10 feet long shall be cut out of the existing line. The water shall be drained out to the fullest extent practicable, and the ends shall be sealed with a 1-foot thick plug of non-shrink grout sealed with a Portland cement grout.
-The existing main is to be removed.
4. Sheet 3 and 4: Trust [Thrust] blocks are called-out as being required in Note 1. Note 1 also references Sheet 10 thrust block details, but no such detail is shown on Sheet 10.
-Revised notes on Sheet 3 & 4.

5. Sheet 3: Note 4 states that pipe will be recycled to the extent possible. What does this mean? As previously commented in the previous applicant letter, recycled pipe shall not be used for this project?

-Revised note on Sheet 3. Existing Main to be removed.

6. The previous applicant letter (i.e., comment #2) contained specific references to epoxy-coated ductile iron fittings for the water line. It appears there are no such references to the epoxy-coated ductile iron fittings contained anywhere in the plan set.

-Applicant acknowledges the comment.

If you have any further questions, feel free to contact me at 913-663-1900 or by email at matt.gibbs@ibhc.com

Sincerely,



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