

In review:

- Generally speaking, the Waste Water Treatment plant receives about 400,000 gallons influent a day. Now this is more of a winter type day. When it rains, or when it is exceptionally wet out, there is “in-flow” meaning storm water gets into the sewer system by leaking in around service lines (or where those join the main sewer or “tap” points), the old 15” sewer main is vitrified clay pipe so in-flow is more of a problem here, plus some service lines are vitrified clay pipe as well. This is part of the reason the City tries every year to install CIPP (Cured in Place Pipe) inside of the older sewer lines. When the flooding happened a couple of years ago because of all the rain, Waverly decided to process all of the sewage and **NOT** dump raw sewage. A couple of days we saw around 1.5 to 2 million gallons flow through the plant, then over the course of the next 10 days slowly drop back to normal levels.
  - We have roughly 3,700 people (estimated). Rule of thumb is 100 gallons per day per person so something around 370,000 gallons on the influent side would be in the ballpark.
- Before council decided to go forward with the new 18” East Sewer Trunk Main, JEO performed some preliminary work that involved examining our old original 15” sewer main. At peak periods (during rain periods) that 15” measured by itself 375,000 gallons a day. Again this showed us we can get a fair amount of in-flow during rain periods or wet times. That 15” main will still get around 200 new homes added to it (Riley lots and North Anderson lots). Plus, the 16 acre parcel located between the middle School and Riley is targeted for R3 or R4 type housing, or apartments. Knowing all of this, it seemed highly logical that if development moved eastward (like our comp plan calls for), then a new sewer trunk would have to be installed. Our comp plan also states that by 2033 the likely population of Waverly would be near 5,000. The city is simply executing the comprehensive plan that has been supported by the community.
- The sewer plant today is designed to process 1 million gallons a day, or a population equivalent of 10,000 people. Now there is room onsite to double the present system or go to a maximum processing capacity of 2 million gallons a day with additional treatment basins and equipment. We would build an additional 1 million gallon Oxidation ditch, and two clarifiers which would bring us to the 2 million gallon flow or 20,000 population equivalent. We also planned the ultimate expansion to 4 million gallons per day or 40,000 population equivalent, thus we would have 4 one million gallon oxidation ditches and 8 clarifiers total, but that is down the road as the population expands. The wet well, degritter, and the UV basin are already built to handle a 4 million gallon capacity.
  - Today – we have an older original 15” sewer main that serves 75% of the town (roughly). All gravity fed.
  - Today – we have a west sewer interceptor or west sewer main. This serves the entire north side of the city, except for the Anderson North development and everything along HWY6 from Capital Tower then going westward towards Pavers. All gravity fed. When this was installed in 2009 this replaced an older sewer system that had 3 lift stations. So the lift stations are gone as of 2009.
  - Tomorrow – we will have an East Main Trunk that is 18” and that can serve around 1900 acres. This would be all gravity fed. See attached JPEG which is the preliminary or draft map, but it is pretty accurate.
    - Understand that the new sewer main allows for homes to be built with basements under them up to 162<sup>nd</sup> Street and still have a gravity fed system.

- Potential or depicted future phases of sewer trunk are for illustration purposes only. The costs to install/construct them would be borne by potential developers (unless there was some logical compelling reason for the City to share in those costs).

State Statute's indicate that a water bill is not a public record. Thus if a not a public record then we do **NOT** have to release it. If folks want to know what a private companies or private citizen's water/sewer bill is a month (or their usage) then go ask them for it. I think we owe it to all of our citizens and corporate citizens some degree of privacy or confidentiality. A "need to know" should be justified here.

- When rate studies are completed for water and sewer --- it always comes out that the heaviest users pay the highest rates. This is done by the flat fee against the tap size, and your cost of water usage per 1,000 gallons goes up the more you consume.
  - The rates are set by ordinance.
  - The question of raising rates happens every August.
  - The last 2 years (August of 2016 and 2017) the Council has **NOT** raised rates.
  - I have been a strong advocate of strapping rate increases to the CPI (Consumer Price Index). So in my opinion, we as a City would be wise to raise the rates slightly every year to cover increasing costs of maintaining a utility system.

There are parties who own land in the attached service area map who are interested in selling their properties for development. There are residential developers who have expressed interest in Waverly, mainly towards the east. A large public involvement effort was conducted in the summer of 2016 and an open house was held to gauge community support. At this open house much support was voiced and, as a result, the City Council made the decision to construct an east sewer trunk. The public involvement effort is documented in the attached.

- \$1,974,722.00 BAN (Bond Anticipation Note) was delivered to the City on April 3<sup>rd</sup>.
- This is a 3 year "construction loan" in a manner of speaking. 2.1% annual interest
- As of right now, the plan is to pay cash at the end of the 3 year term. Use sales tax.
  - Understand that one council cannot bind another council to a financial commitment (State Statute).
  - Our Bond underwriter has determined that our revenue stream and overall position of the City is such that if the decision was made to bond this 1.974 million (over a 15 year term), that could easily be done as well. GO (General Obligation) bonds or Revenue based bonds, either one is acceptable.
  - We have to wait a minimum of 12 months (September 2019) into the BAN before we could pay it off, or finance the project differently; ahead of the 3 year schedule.
  - So even though some may say we are "kicking the can down the road", I would disagree and state we are trying to leave all options open for this council or a future one. And a future mayor.

At the conclusion of construction there will be a press release regarding this sewer trunk and how it opens up Waverly and compliments the comprehensive plan the City has. Some developers are in the know already concerning this infrastructure expansion, some (in Omaha) were notified 2 weeks ago. I think within 3 years from now we'll have new homes on this sewer trunk.

