

1. Please confirm The contractor will pay for both surveying and compaction testing?
City will take on this cost but Contractor will need to schedule all testing and surveying.

2. Meter manholes show 8" walls Typical construction for a man hole is 5" The 8" may be extremely difficult to obtain. Please advise
The manhole must meet A.S.T.M. spec C-478 as shown on the drawing. The 8" wall is not required as long as the proposed manhole meets the specifications.

3. It appears all of the pipe will be below the 4.5 feet of groundwater elevation or very close. Will contractors be expected to use clean rock for bedding if groundwater has been lowered due to dewater pumping? Yes
On Sheet 3 of 5 Geotechnical Requirements states The existing onsite poorly graded sands are suitable for pipe bedding above ground water. An imported free draining ¾ inch aggregate, similar to a CDOT NO. 67 shall be used for pipe installations below ground water.

Also referred to GEOTECHNICAL REQUIREMENTS And Drawing for force main bedding.

4. the fence, is it commercial grade?. Yes

5. Do you want barbed wire on top of the fence? No

6. I just want to confirm that we do not need a bid bond for this project. If we do, I need to know what the liquidated damages are, time for completion, and if we will need a payment and performance bond. A bid bond is not required as part of the bid process. Liquidated damages will be part of the contract at \$1000.00 per day. Date of completion will be established and agreed upon by both parties and written into the contract.

7. In west seventh the water main is crossing the to be installed sewer line. The depth should put the water line within the window of the Sewer main. If this indeed happens should the contractor figure a water line lowering and if so what size is the water line?
The Maps show 10" AC water line. Insert a separate line item for the cost if needed and abide by City Construction standards identified below.

- If the sewer line is above and within 10 feet horizontally of the water line, the sewer line shall be installed through a steel or ductile iron casing pipe or encased in reinforced concrete as shown on the City Standard Drawings. The casing pipe or concrete encasement shall extend a minimum of 10 feet on either side of the water line, measured perpendicular to the water line.
- If the sewer line is 18" or less clear distance below and within 5 feet horizontally of the water

line, the sewer line shall be installed through a steel, ductile iron or PVC casing pipe or capped with concrete as shown on the City Standard Drawings. The casing pipe or concrete cap shall extend a minimum of 10 feet on either side of the water line, measured perpendicular to the water line.