

**MINUTES OF THE BOARD OF PUBLIC WORKS**  
**Tuesday, October 13, 2020**

The Regular Meeting of the Board of Public Works was held on October 13, 2020 at 7:30 a.m. in the City Council Chambers located at 405 Jefferson Street, Washington, Missouri. The following were present/absent:

**MEMBERS:**

Chairman	John Vietmeier	Present
Member	Brad Mitchell	Present
Member	Mike Radetic	Present
Member	Steve Richardson	Present
Ex-officio Member	Steve Strubberg	Present
Ex-officio Member	Vacant	--

**OTHERS:**

Council Representative	Steve Sullentrup	Absent
Council Representative	Mark Wessels	Present
Mayor	Sandy Lucy	Absent
City Administrator	Daren Lamb	Absent
Water/Wastewater Superintendent	Kevin Quaethem	Present
Water/Wastewater Secretary	Beverly Hoyt	Present
Public Works Director	John Nilges	Present
Assistant City Engineer	Andrea Lueken	Absent
Emergency Management Director	Mark Skornia	Absent
Fire Chief	Tim Frankenberg	Absent

**Originals and/or copies of agenda items of the meeting, including recorded votes are available on record in the office of the Public Works Department for one year. Video/DVD and audio tapes are kept only until the minutes have been approved for the meeting. DVD copies of this meeting are distributed to Board Members if requested.**

**Minutes**

A motion was made by Mr. Richardson and seconded by Mr. Radetic to approve the minutes from the regular September 8, 2020 meeting. The motion passed without dissent.

## Priority

No priority items.

## Wastewater

Equipment issues, ME Frick's – Both motors have burned up. This station takes all the sewage from Frick's Meats and sends it down to West Link Drive and Melton, which is now Wegge. We do get a lot of volume from Frick's Meats. The lift station was built in 1999 and at the time was a state of the arts station called the Bubbler Station. There were two (2) pumps up in a dry pit above ground and two (2) called Bubblers that sucks the sewage up into the pipe to keep it primed so when the pumps kick on they would pump. It was not struck by lightning or anything they just burnt up, both at the same time, one went out and the other went to kick on and just gave out.

The plan is to rebuild the station from ground up. Mechanical work will be done in-house. We just have to buy the material portion, which is rather expensive but will be saving quite a bit. We are installing all the piping and mechanical valves, check valves, gate valves and installing the pump brackets. We are trying to convert over to Flygt Pumps that are all Variable Frequency Driven (VFD) driven. All lift stations are in the process of converting over to the same equipment.

We are looking into having the station at ME Frick's back up and operational in about six (6) weeks. It could take longer, eight (8) weeks due to the length of the pumps. Unfortunately, those pumps are not stock item. They will have to build this so it takes a little longer

We actually have to use bypass pumping. We went in on Monday, put in the bypass system, installed a manhole, we installed the bypass equipment. All took about four (4) hours. Brought in a 4" diesel pump that floats and recycles throughout the manhole to pump. We have already had to bring in another pump. We do a lot of work with Vandavender, they are just a phone call a way, we call and they can have a pump here within an hour.

Walnut Street Lift Station – Impeller upgrade, over the last few weeks that our pumping capacity has been dropping. We have pulled the pumps and cleaned them. We do get many hand wipes at this station. Hand wipes do not break down as the advertisement says, they do not dissolve, they bunch up and plug the pumps. We have had to pull the pumps a lot more and clean them. Over the years' the impeller and a wear ring have allowed the pump to pump at its optimum efficiency. Those two have worn out. The station is over ten years old.

We just put in a storm pump at Walnut Street Lift Station to enable us to pump the high flow. The two (2) regular flow pumps about 1,500 gallons a minutes (gpm), right now they are pumping about a 1,000 gpm. Those two run at normal condition. Once we get into the rainy season, we will notice more infiltration even though we have taken off a big chunk of it with our last project. Infiltration will always be an ongoing project that we diligently working on. However, we will still have infiltration. This is where the storm pump will come in. The other two (2) pumps technically pump 1,900 gpm when they both running. That is where the big pump comes into play it can pick up from there and pump 3,200 gpm, which is the max of the force main to get to the treatment plant.

This pump is a budget item along with the pump at ME Frick's. Walnut Street we knew was starting to lose its efficiency. Everything seem to happen at the end of this last budget year. The equipment is on order; and will be arriving within a couple of weeks. One of our people will be working with their technician to install. This will be a great training opportunity.

### **Influent VFD Replacement**

The VFD operates all the equipment at the treatment plant. There are 15 VFD's down there, we have had to replace some of them, actually two (2) of them so far. We have done some investigation on the VFD's and found there is another that does exactly what the current VFD's do and they are cheaper. Same quality, just a different brand that is cheaper. We do plan to start converting to the cheaper version.

The slip lining project was completed around the Rand area. We lined 23 manholes, wanted to do 25 but we ran out of linear footage money. The ones that still need to be completed will be put on the next project. We will start rolling into the televising and bringing a project on line within the next couple of months. We know that area has a lot of I & I issues an now Insituform can cut out 6" sewer lines so we plan to continue on with another 5,053 foot of slip lining and another 25 manholes within the next couple of months.

The demo that the Board was shown is the latest on the best technology of lining a manhole. This is an epoxy spray on manholes and over time (5 to 6 years), it will start flaking away. The way this process is sprayed on the material will not flake away; it will literally have to be broken apart. In theory, there is no time line because they don't know. To me this is as good as the slip lining of our sewers.

There are lining companies that only put the fiber sock in and called it lining. A fiber sock is soaked with epoxy resin, pulled through the line, and is heated either with hot water or with steam. Insituform uses steam. The manholes that are involved in this slip lining project are coated. A company comes in behind them and sprays the product. This is a 3-layer spray process. As we are doing the area with slip lining, we come in and spray the manhole. This ties in all the slip lining and manholes as one cover coated piece.

### **Water**

We went out for bids for a new utility truck for water. Don Brown is the State Bid and the lowest. This is a budgeted item. At the last Council meeting, there was discussion of selecting local bidders even if they were slightly over the low bid. The purchasing manual does reference using local when we can, with that being said we should always go with the low bid. Council did discuss this just for competition, anyone can bid across the state and get those delivered. However until it comes from Council to do, we still go with the low bid.

Our local dealers will still do the service and maintenance. Just because we go with the State bid does not mean we cannot get local, just means it make the purchasing much quicker.

Boring – Will be meeting with Steve who is one of the owners of S&R Underground at 11:00 o'clock today to discuss need to make sure pit hole is big enough, and when their start time will be. We are looking at a couple of weeks. We will be moving southward toward Meadow Lakes trying to find the most cost effective way.

The idea is that the Kamp Schroeder Farm would benefit from this and there was an issue with utilities up Pottery, which was the original way to get to Meadow Lake up Pottery around the bend. When we walked back the road looks plenty clear as far as utilities, the problem is that the road was just paved by the Special Road District. Working with Mark Piontek and Special Road District to figure out how we cut this water line in just outside the white line and the face of the gutter on the curb and then just use some smaller bucket equipment. I do not think anyone would notice it out of the drive lane to slip that water line in there to stay away from all the utilities. That would still have a parallel water system; the City does service Holtgrewe Rd to Pleasant View Apartments. There is a secondary option we were looking into, maybe taking over some of their system; we are working with the District. It is taking longer than I had hoped, just trying to find the right solution. At the end of the day, Meadow Lake is being served the same water as before just a cheaper rate. We are actually losing a little money on the sale of water until we can get water to them. Again, a savings of probably over \$50,000.00 is worth exploring.

Regardless, the boring has to get under the road. When Meadow Lake came in the discussion was the cheapest route to extend water services. There is a linear footage to the closest water line that was actually on High Street. The problem with that is you had to get through Kurt Unnerstall Property to get there. However, the property is not properly graded. So, the water line would have gone in the ground, but he may cut off 6 or 8 foot of dirt when he went to grading it and it would have been a wasted situation. So, we took those monies \$50,000.00 and put it towards this project as well. It was always budgeted for a booster station, however instead we will hook on to the existing one. We knew the \$50,000.00 would not get the water to Meadow Lake.

If we do Option B there will be water to the Kamp Schroeder property it's not like we are going to bypass them, we will extend water up to the property, that piece of property is not being left out for water service. We will have two feeds coming in on that side of 100.

The Board has always met on the 2<sup>nd</sup> Tuesday of the month, there has never been anything showing why we meet the 2<sup>nd</sup> Tuesday. We would like to move this to the fourth Tuesday of the month. This would allow us to get things approved by the Board first and still have time to move on to Council.

A motion made by Mr. Richardson and Seconded by Mr. Radetic to move the meetings to the fourth Tuesday of the month.

### **Violation**

We are just right there on the violation, last Friday was a conversation with Cochran and person from State and have not heard what the outcome was but should be soon.

**Next Scheduled Meeting Date**

The next scheduled meeting date is November 24, 2020. I will send an email out as a reminder of the date.

**Adjourn**

There being no further business the meeting adjourned on a motion by Mr. Richardson and seconded by Mr. Mitchell. All in favor aye, those oppose. We are adjourned.

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Prepared by: Beverly Hoyt  
Beverly Hoyt  
Water/Wastewater Secretary

Adopted and Approved by the Board of Public Works:

Date: 11/24/2020 Signature: [Signature]  
Secretary

## Memorandum

**TO:** Darren Lamb, City Administrator  
Board of Public Works

**FROM:** Kevin Quaethem, Water and Wastewater Superintendent

**DATE:** November 20, 2020

**RE:** Work Performed by the Water and Wastewater Departments

### STATUS OF MAJOR CONTRACTS – OCTOBER 2020

PROJECT	VENDOR	CONTRACT AMOUNT	PREVIOUSLY APPROVED	CURRENTLY APPROVED	BALANCE
Utility Vehicle (Water Dept)	Don Brown	\$48,618.00	-0-		\$48,618.00
Walnut Street Impeller Upgrade	Vandevanter	\$29,289.00	-0-		\$29,289.00
Boring Under Hwy 100	S&R Underground	\$53,000.00	-0-		\$53,000.00

### OCTOBER 2020

Water Pumped October 2020..... 62,064,064 2.00 mgd  
Wastewater Effluent Flow October 2020. .... 64,840,000 2.09 mgd  
Missouri One Call Locate messages received October 2020.....206  
Meters Issued as new. ....2  
Meters Issued as new for irrigation systems .....0  
Service Requests/Work Orders Completed October 2020.....56  
Sewer Routines .....0  
Delinquent Accounts actually shut off in October 2020.....0

### WATER DEPARTMENT FIELD WORK PERFORMED – OCTOBER 2020

- |  |   |
|--|---|
| <ol style="list-style-type: none"> <li>1. Shop Maintenance</li> <li>2. Meter/Swapping/Repair</li> <li>3. Repair/Replace/Number Hydrants</li> <li>4. Check Wells/Lift Stations/Heaters</li> <li>5. Missouri One Call Locates</li> <li>6. Hydrant Flushing/Painting</li> <li>7. Maintenance on Wells</li> <li>8. Water Break @ Sand Plant</li> </ol> | <ol style="list-style-type: none"> <li>9. Water Break @ 1709 E. Parkway</li> <li>10. Water Break @ Terry Lane</li> <li>11. Water Break 210 High St.</li> <li>12. ME Frick's – Set Pole</li> <li>13. Two Water Taps on 8<sup>th</sup> St.</li> <li>14. Call Out – American Inn</li> <li>15. Antenna Work</li> <li>16. Slip Lining and Manhole Rehab</li> </ol> |
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## **WASTEWATER DEPARTMENT FIELD WORK PERFORMED – OCTOBER 2020**

1. Sewer Routines
2. Daily lab work and routines.
3. Cleaned belt press.
4. Clean Process Filters
5. Run belt press.
6. Security System (Fire Alarm)
7. Sewer Call Out – 3 Winchester
8. Sewer Call Out – 9<sup>th</sup> & Lincoln
9. ME Frick's Lift Station
10. Hauled Sludge (Hwy A)

## **ROUTINE FIELD WORK**

1. Performed rereads as necessary.
2. Performed read-outs on meters (persons moving in and out)
3. Installed reading device receptacles on houses where new/replacement meters were installed.
4. Issued meters and materials to contractors, owners, etc.
5. Took necessary water samples of the distribution system.
6. Flushed hydrants – scheduled routine flushing.
7. Wastewater lab work.
8. Root-sawed and/or cleaned sewer lines where necessary.
9. Hauled sludge.
10. Televised sewer lines.
11. Performed river gauge measurement.
12. Performed sewer and water service main inspections.
13. Located water and sewer lines.
14. Monitored construction of water and sewer mains in new developments.
15. Responded to service call requests.
16. Invoiced for meters, materials and other charges as necessary.
17. Performed maintenance and repairs on buildings, vehicles, and equipment.