

MEETING MINUTES PUBLIC WORKS / PUBLIC UTILITIES COMMITTEE

Coronado Center – April 20, 2017

Meeting Summary:

- Residential water meter replacement to continue on an as needed basis per conclusion of a subdivision water meter test.
- MAWA contract for board authorized 2 mgpd Ouachita water rights is ready for signature but at a slightly higher cost of \$38K/year.
- Manhole Rehab project was complete on time and within budget. The contractor and inspectors performed very well.
- Metrics to measure the improvement in the village lift station capacity is under development. Target is to reach 100% capacity in two years starting next year.
- Without a major rain event and no overflow at the Mill Creek waste water facility, the improvement due to the manhole rehab is undefined. Meter installation will be used to measure rainfall inflow due to a specific rain events for comparison with original engineering study to provide this definition.
- A five year mowing contract was let for mowing of the neighborhood roadways.
- F.O.G brochure for education was developed and is ready for villager distribution.
- Public Works / Public Utilities Public Meetings at the Coronado Center have been changed to a quarterly timing beginning on July 20.

Reminders and Calendar:

- 5/12/17 @ 8:00 am Next sub-committee meeting
- 7/20/17 @ 9:30 am Next public committee meeting

Meeting Minutes

Committee Members: Present: Leonard Binstock, David Childs, Murray Claassen, Don Draper, Jim Mahan, Philip Matone, Jim Patton, George Roser, John Sowers, A C Watts, Roland White

POA Board Members: Present: Bob Cunningham; Excused: Marcy Mermel

POA Staff: Jason Temple, Director of Public Utilities; Excused: Bill Staggs, Director of Public Works

Press: Jeff Meek (Village Voice)

Guests: Maxine Klein, Spencer Jordan

Meeting Called to Order by Chairman Leonard Binstock at 9:30 AM.

- Don noted that the approval of the February 16, 2017 meeting minutes needed to be added to the agenda. Motion was made by John Sowers to accept the agenda as revised. Second by Roland, motion carried.
- Motion by Don Draper to approve the meeting minutes for the February 16, 2017 Public Works / Public Utilities Meeting as presented by Secretary Don Draper. Second by Jim M., motion carried.
- Motion by Don Draper to approve the meeting minutes for the March 16, 2017 Public Works / Public Utilities Meeting as presented by Secretary Don Draper. Second by Jim M., motion carried.

POA Board Liaison Report by Bob Cunningham:

- Bob provided a summary of the POA Board meeting that took place on Wednesday morning. Reference the POA Board meeting records for details.
 - On new gate security, in response to multiple questions, Bob stated that he would find out if both new gate cameras and multiple cameras that exist at various HSV locations have the potential to feed back to a police monitoring location.

MEETING MINUTES PUBLIC WORKS / PUBLIC UTILITIES COMMITTEE
Coronado Center – April 20, 2017

Public Utilities Report by Jason Temple

- We are still evaluating various auto read versus multiple read; drive-by versus fixed point systems. We are looking at long term return on investment compared to the increased cost of a monthly manual read. The monthly read is to support monthly billing and to reduce write offs for customer leakage. The monthly billing is to improve cash flow.
- To improve knowledge of flow throughout water system, we will add meters at pump stations. This will establish a base line for normal flow rates on all pressure plains. This will provide the ability to locate abnormalities/leaks more quickly and assess the potential for unaccounted for water loss.
- Residential meter replacement is typically 10% per year. For Hot Springs Village, this is 900 meters per year at a cost of \$40K. Expectation is that the new meters would read higher, generating more revenue, which in turn pays for the change outs. A recent past test program in the village did not prove this presumption. Meters over 10 years old in test sub district were over 95% accurate. We are thus continuing the policy of changing out residential meters on an as-needed basis. Our 200 commercial meters are on larger pipe sizes and have a higher potential for return on a 10 year change out program. Even though 50% of these meters are for POA operations, the 10 year commercial meter change out program will be adopted in pursuit of our water accountability.
- The MAWA agreement is with the POA attorneys. Expect closure on this within 30 days. Billing will start within 30 days of signature. Corp of Engineers is expected to sign their agreement with MAWA shortly. Cost are not yet finalized but will be higher than the original estimate; that is, about \$19K per mgpd instead of \$17K. There is enough in the budget to cover this change. All the available 30 mgpd from Lake Ouachita has been bought up by local communities: Hot Springs, Hot Springs Village, North Garland County and Paron.
- Jason is meeting with Monty Ledbetter, Hot Springs City Utility Director and Matt Dunn, Vice President of Crist Engineering at 11:00 am in Jason's Office. Murry and Rolland from the committee will join them. The subject will be a conceptual discussion of Hot Springs Village obtaining the Village's 2 mgpd per day of it Lake Ouchita raw water allotment as treated water from Hot Springs which would be pumped to the village through North Garland county piping. A 4 mgpd peak flow would be considered with possible additional storage capacity in the village for treated water. This is both for insurance against the possibility of the village's Middle Fork water supply becoming contaminated and for the potential of delaying a future major investment in an expanded water plant that would be needed for the projected future village population growth. Hot Springs, with a larger water production facility, may be more efficient and have a lower cost than the village. Conceptual discussions have already taken place with North Garland County concerning the potential for interconnections with the village and pass through of Hot Springs treated water to the village. Lake Ouchita not only has an exceptional water quality, but it is much safer than Middle Fork, since development around the lake and in the water shed is limited.
- The manhole rehab project is 100% complete. King Construction did a quality job and McClelland Engineering inspectors performed well. All specified work was completed in a timely manner. A few additional manholes at the waste water plant that were missed in the original study, were repaired at the same rate as the original contract price. Since the process went well for King Construction, they performed a free \$8,000 lift station rehab.

MEETING MINUTES PUBLIC WORKS / PUBLIC UTILITIES COMMITTEE
Coronado Center – April 20, 2017

- There are 3 or 4 more concrete lift stations that need maintenance. The option is to rehab to provide an additional 10 to 15 years life or to replace these with \$10K fiberglass wet well. Although rehab is less costly, the fiberglass has an indefinite life. Rebuilding with fiberglass includes escalation, re-pipe, transfer of all equipment, controls and electrical.
- Jason is working on a metric to summarize the status of all the lift stations in the village. There are thousands of simplex grinder pumps at village homes that are now maintained by the utility department as part of the waste water services charged on villagers bi-monthly bills. The utility department maintains the commercial grinder pumps, but this is charge back to customers when performed. There are another 66 in-line duplex lift stations with 2 to 3 larger pumps that receive flow from the simplex units. Of the 66, only 10 are at full capacity. For compliance we must have one pump working at all stations at all times. On the full capacity stations, we usually alternate the two pumps to even out the load on the lift station equipment. Full capacity is defined as both pumps installed and operational, a fully operating control system and all piping is installed and operational. The goal is starting next year to have all systems at full capacity in two years. The staff is in place to make this happen. Since funds are not available to add pumps to the system, staff is concentrating on other deficiencies and repairs to upgrade and keep operational.
 - If a system goes down and overflow occurs the utility department must fix the problem, put the lift station back on line, clean up the overflow, then report the overflow to the Health Department. Most overflows are reported by villagers. Most of the duplex lift stations do not have remote monitors. There are remote monitors on the larger central lift stations. We are currently looking at use of SCADA control systems to alleviate this risk, but the best mix for the Village needs to be resolved.
 - The cost of the high head 3 to 10 horsepower grinder pumps for this corrosive environment is \$5K to \$10K. There are a few more expensive pumps in the system. The Village does not maintain an inventory of these pumps since the system has some pump redundancy. When a pump fails, they are no longer rebuilt in the Village. We get a price from a local repair shop; if it exceeds 50% of the replacement cost, a new pump is ordered.
- The Village needs to consider two more years of utility rate increases to catch up with water and waste water system maintenance. Due to a small population spread over a large area, the final village utility costs will be slightly higher than the state median.
- To date we have not had an overflow at our Mill Creek waste water facility since the manhole rehab project. There has not been an adequate rain event to truly test the system. We are adding meters not only to our waste water plant, but also to our two larger lift stations. We will compare measured flow rates with the study that RJN performed at the beginning of the project. By comparing flow rates for a given rain event, we should be able to quantify the improvement the manhole rehab provided.
- Jason summarized the recent trip to Russellville to look at their Schwing Bioset facility which produces a Class A solid waste that is sold to local farmers for lime and nutrient content. The village pays \$100K to haul 2000 tons of 13% solid and 87% water, sewage waste to the Benton landfill annually. We are looking for a better, greener way to handle this waste. Evaluation will be based on ROI. Jason indicated he was looking at getting the Schwing Bioset pilot unit for two weeks to a month, depending on its cost, to get a feel for how the system would work in the village environment.

MEETING MINUTES PUBLIC WORKS / PUBLIC UTILITIES COMMITTEE Coronado Center – April 20, 2017

Chairman's Report by Leonard Binstock

- Last Friday Leonard, Murray and Philip met with Leslie for 50 minutes to learn about her projections of future needs and improvements in the village. The meeting was also to introduce the future committee management. Leslie talked about the committee structure and how the committee helps the directors. The committee can also be a voice for the village in promoting education and information to homeowners. Murray was impressed that Leslie and Linda had toured the waste stations and some lift stations with Jason to get a better hands on understanding of the future needs of the village.
- Jason agreed to provide tours either individually or in a groups of the water and waste water facilities to improve the committee members understanding of the village facilities.

Public Works Report: With Bill absent, Leonard requested Jim Patton provide a Public Works summary:

- The dip at the 10 mile marker on DeSoto Blvd. has not yet been repaired. Bill is looking at traffic count to determine the best way to handle traffic during this road repair. Also culvert repairs, pot hole patching and other high priority secondary road issues to prepare for summer visitors have consumed the available manpower.
- The mowing contract was issued to Marvin Dunn for one year with a four year annual renewable clause adjustable to CPI. The mowing contract will provide two mowings for the neighborhood. The POA will start mowing on DeSoto and other main roads shortly.
- Jim also noted they were looking at what can be done to improve sight distances at some of the areas and intersections where the forest was encroaching on the right-of-way. Phil noted that the boom mower needed to support this activity is on hold as a capital item until the law suit is resolved. Resolution of the law suit is not expected before this fall.

Committee Member Comments:

- In response to a committee question, Jason recalled that 8,000 feet of sewer line had been inspected with TV camera. That study showed that the reduction in infiltration that was available by replacing sewer line sections provided a very low benefit over cost ratio. Now that the higher return manhole rehab is complete, PU can start looking at some of the lower return fixes to reduce the remaining inflow of rain water. The line along Lake DeSoto is one that may need to be evaluated.
- Jim Patton noted that due to POA reorganization, Jim was no longer in charge of Lakes, but he was in responsible for erosion issues in the water shed.
- John suggested the committee provide the inspections of all culverts in the village to develop a data base that Bill could use to prioritize his repair program. Jason noted that given the cost of a culvert repair, only two or three could be fixed each year due to the limited village resources unless the law suit is settled favorably.

Work Group Reports:

- Water and Sewer: Roland noted that an F.O.G. (Fats, Oils and Greases) brochure was developed and an article was printed in the Voice based on the document. The document is ready for circulation to village residence. Jason noted that they were still working on a method of delivering the brochure to villagers.
- Safety: John noted that Pete Petroski and Andrew Jones from the Safety committee plus AC and John were scheduled to meeting with Bill on April 20 to discuss the safety of the 61 golfcart-roadway crossings at the village golf courses. John noted they were going to focus on:
 - Missing warning signs or signs needing repositioning

MEETING MINUTES PUBLIC WORKS / PUBLIC UTILITIES COMMITTEE
Coronado Center – April 20, 2017

- Dangerous crossings with blind hills or curves
- Filthy dirty signs that need to be cleaned
- Foliage removal that blocks line of sight for both auto and cart
- Future scheduling of survey's to support long term safety in village.
- Sanitation: Jim M. noted that the group was at the point where they must determine how to allow for construction waste for both contractor and do-it-yourself projects. They are waiting for a meeting with the ACC to discuss this subject.
- Roads: Jim P. noted that Bill has a thermo-striping road test at Balboa and Baleric to assess the durability of this more costly material.

Public Questions and Comment:

- Maxine noted that the village is starting to grow again as a result of the planned expansion program, but the roadways are not designed for the heavier traffic flows. We need to start planning ahead for this. Leonard responded that we had not developed a long range road development plan, but had talked about ways to deal with the heavier truck traffic at the gates including truck weight limits, turn radius and residential area restrictions. We do need to look at long range road planning. Phil noted that you don't normally need to look at four lanes until the design hourly vehicle count is 1,400 per hour with a average daily flow of 14K to 16K. These are the minimums required to request help by federal funding. In Illinois, federal help is available for housing developments with a population over 5,000. He is unfamiliar with Arkansas laws. Also the Manual on Uniform Traffic Control Devices (MUTCD) provides guidelines for other designs to alleviate congestion in growing communities. Application requires an approximate design hourly rate of 600 vehicles per hour on the main artery and 200 vehicles per hour on the secondary route. The village is still a long way from these numbers.
- Spencer reminded the committee he had asked about bagging requirements for garbage inside road side containers to prevent spillage in the roadway when garbage is loaded on the truck. Bill had promised a e-blast on this subject, but Spencer had not seen this yet.

Old Business: None

New Business:

- Leonard noted that Public Utilities and Public Works will have quarterly public meetings. The minutes of these meetings will be recorded by the secretary and posted on the new web site. Other announcements will be issued by the Directors via e-blasts and press releases. All media questions are to be addressed to the Directors. This will allow the committees with their directors to concentrate on more productive technical working meetings.

Meeting Adjourned at 10:54 am.

Next Sub-Committee meeting at the Water Plant will be Thursday, May 12. Meeting is open to public.

- 8:00 am Public Works
- 10:00 am Public Utilities

The Public Utilities working sub group meets at the water plant on the last Tuesday of the month at 9:00 am. The next meeting is on April 25.

Next Public Committee Meeting: Thursday, July 20, 2017 at 9:30 am at Coronado Center. Meeting is open to the public.

Submitted by: Don Draper, Committee Secretary