



**TOWN OF MIAMI
Wastewater Advisory Board Meeting
Wastewater Collection System Replacement Project**

THURSDAY, DECEMBER 17, 2015 AT 4:00 PM
MIAMI TOWN COUNCIL CHAMBERS
500 W SULLIVAN STREET, MIAMI, ARIZONA 85539

Meeting Minutes

I. Call to Order

Meeting was called to order at 4:02 pm by Jay Spehar.

II. Roll Call

PRESENT: Jay Spehar, Jerry Barnes, John Trujillo, Ray Webb, Rick Powers

ABSENT: None

III. Approval of Minutes

a. Approval of Minutes from the November 19, 2015 Meeting

- HILGARTWILSON will correct a typo in the meeting minutes. John Trujillo motioned to approve the minutes of the November 19, 2015 meeting, subject to the correction noted above. Motion was seconded by Rick Powers – All in favor.

IV. New Business

a. **Project Status Update**

Mark Ipson provided an update on the project.

- Phase 2 Update:
 - A summary of the Phase 2 construction schedule was presented. Kinkaid met the 45-day deadline for the Mackey Camp manhole replacement, sewer main cleaning, and video inspection. Per the contract, substantial completion of Phase 2 is to be June 22nd and final completion is to be July 22nd. A timeline for the monthly payment applications was also discussed. Future payment applications will be sent out the WWAB members the Friday before the WWAB meeting to allow for more time for the board members to review prior to the WWAB meeting.

- All payment applications through October have been paid to the Town. Funds for the November 2015 payment applications will be deposited into the Town's account by USDA in the next few days.
- Phase 2 construction is ongoing. AMEC (Construction Manager/Resident Project Representative) and Kinkaid (Contractor) provided updates on the Phase 2 construction.
- Jameson Owen, project manager for Kinkaid, updated the WWAB on the construction progress. The Mackey Camp manhole removal and replacement work identified on the construction drawings is complete. A few pipe segments adjacent to manholes in Mackey Camp were also repaired with the manholes. Kinkaid has demobilized from the Mackey Camp area. One crew is now working at the east end of town and is proceeding east to west. Kinkaid is coordinating with FMI for the crossing at New Street. A second crew is working in the area of the Public Works Yard. Kinkaid is looking ahead along the alignment and trying to reconcile potential utility conflicts before their construction crews reach said conflicts. Kinkaid is also preparing for the start of jack and bore operations next week. The first jack and bore will be under US-60, and it will be followed by the jack and bore operations in the railroad area south of US-60. Finally, Kinkaid has been work through some issues at the Canyon Avenue alignment associated with conflicts with a new gas line.
- Jay Spehar stated that he appreciates Kinkaid getting the manholes replaced at Mackey Camp. He also asked if someone is coordinating the New Street crossing with the County. Jameson Owen responded that they are working with Steve Sanders, the County's public works director, to complete any required permitting at that location. Jay asked if Kinkaid is also working with ADOT and if there were any concerns working inside ADOT right-of-way. Jameson responded that Kinkaid anticipates it will receive the permit from ADOT tomorrow.
- Mark Ipson showed a few construction photos from the Phase 2 sewer installation. The Phase 2 construction is moving along. A construction schedule is included in the WWAB member packets. The construction schedule will be emailed to the WWAB members the Friday before each WWAB meeting with the contractor's pay app so the board members can have an idea of the project schedule as they review the contractor's pay application.
- The WWAB asked that future WWAB meeting PowerPoints highlight any changes to the project schedule. Jameson Owen noted that the schedule included in the WWAB packets reflects the first revision to the schedule dates, including a delayed substantial completion date (moved from June 2016 to July 2016) due to the redesign required at Canyon Avenue and some of the issues associated with the Mackey Camp area. While this schedule shows the projected delay, the delay has not yet been officially approved. Kinkaid will provide additional schedule updates as they are made available.
- Debra McGrew presented a sample allowance change order, representative of those that will be used throughout Phase 2 to address costs associated with unmarked and/or unknown utilities and structures. These costs will be charged against the allowance for unknown utility conflicts. Kinkaid will provide AMEC with information about conflicts with unknown utilities as they come up. AMEC's resident project representative (RPR) will keep track of who is out at the site and what equipment is used to handle the utility conflicts so they can verify the costs shown on the allowance request. The sample change order was

presented to the WWAB presentation to obtain feedback from the board members. Additional discussion was held regarding the allowance amounts included for the Mackey Camp repairs and for unknown utility conflicts in the contract. Each WWAB meeting, the PowerPoint will include an updated summary of the original allowance amount, the costs incurred to date, and the remaining balance of the allowance. Jay Spehar stated that the board appreciates the project team keeping this record. Additional discussion was held about the allowance change order format and process. The allowance change orders will be prepared on a weekly basis. The allowance log will be included as part of the submittals. While the allowance change orders will be approved in the field to keep the work moving along, the summary of allowance usage will be presented at each WWAB meeting to keep the WWAB in the loop as to what costs have been incurred to date. Further discussion was held on how the spreadsheet presented in each WWAB meeting should include the original allowance and/or contract amount, added and subtracted costs for each allowance change order, and the remaining amount in the allowance. The impacts to the project schedule should also be shown on the change order tables.

- Mark Ipson provided a general overview of the project budget and WIFA payments and the WWAB discussed the budget. The WIFA costs to date total \$3.12 Million, which leaves approximately \$125,000 left on the WIFA loan. Funds for the Town's second payment to WIFA, in the amount of \$672,500, will be received from USDA shortly. A final lump sum for the outstanding amount of the WIFA loan payback will be paid to WIFA once the Phase 3-5 easements are in place. Dale Metz has returned to assist the Town in acquiring the remaining Phase 3-5 easements.

b. Mackey Camp Repairs

- Debra McGrew with AMEC discussed the sewer repairs needed in the Mackey Camp area. As requested by the WWAB, AMEC reviewed the 2010 video and the 2015 video of the Mackey Camp line and identified the needed repairs to the main. In its review, AMEC also looked for any pipe conditions that may have gotten worse since 2010. In their recent review of the 2010 video, and comparing it to the 2015 video, AMEC found that the camera operator doing the Mackey Camp in 2010 did not stop and take pictures of anything along the sewer main, except for the laterals. Several issues that were identified from the 2015 video could be seen in the 2010 video once the full video was reviewed. However, since the 2010 video operator did not note many of the cracks, separated joints, etc., these issues were not brought to AMEC's attention until the issues were noted by the 2015 video operator. From a thorough review of the two videos side by side, a few of the joints appear to be a little more separated now than they were in 2010, but the overall sewer main seems to generally be in the same condition as it was in 2010.
- AMEC identified a two-tier approach for determining the required improvements to the Mackey Camp sewer main. The first tier includes bad joints and areas where the pipe is cracked or broken. This first tier identifies the repairs are needed to restore the integrity of the pipe. The second tier includes areas where the pipe sags and may have odor potential. The tier two repairs would reduce odors, but are not needed for the structural integrity of the pipe. AMEC also looked into better protecting the manholes and suggests slipping a large diameter CMP pipe over the manhole down to the scour depth in the channel, then filling the space between the CMP pipe and the manhole

with concrete. While rip rap may be considered in smaller washes with much smaller flows, rip rap cannot be used to protect the manholes in the Mackey Camp area because of the high velocities within the channel. By placing the round CMP pipes around the manholes, flow and debris in the wash will be better diverted around the manhole.

- The tier one improvements include 23 joints that are pulled or cracked. It also includes removal and replacement of the base of manhole #8 with a normal base to eliminate the full pipe sag that is occurring upstream of the manhole. The preliminary estimated cost for the tier one repairs is \$55,300. The pipe repairs would be completed using a cured in place pipe (CIPP) patch, which allows for the repairs to be made from the inside of the pipe and eliminates the need for additional pipe excavation and additional joints in the pipe. AMEC received quotes for the CIPP work from vendors and hopes that Kinkaid will be able to get a better cost as the contractor. The tier two repairs would eliminate sags to reduce odors and have a preliminary estimated cost of \$38,600. In addition to the tier one, tier two, and additional manhole protection, AMEC also evaluated the potential for replacing the full sewer main in the Mackey Camp area. This would have a cost of \$312,000. AMEC recommended that the Town proceed with the tier one repairs and the manhole repairs to restore the structural integrity of the line and better protect the manholes. The total preliminary cost estimate for the recommended improvements (tier one and manhole protection) is \$96,800.
- Discussion was held regarding the proposed protection for the manholes and why the proposed protection or stronger manholes weren't included in the design previously. The WWAB members agreed the manholes need more protection. It was noted that the monitor wells in the wash are protected and that they have withstood large floods for the past 20 years. Mike Luecker with USDA noted that he agreed it makes sense to better protect the manholes in the wash. The allowance included in the bid tab for the additional Mackey Camp repairs was \$30,000. Since the recommended tier one repairs and the manhole protection costs more than that amount, the project budget should be evaluated to see if the additional repair work can be added to the scope. Discussion was held about whether or not there are odor issues in the wash, and it was noted that no odor issues are known. Additional discussion was also held about the old videos, why AMEC had not identified the issues in the Mackey Camp line based on the 2010 videos, and what the cost implications to the project may have been. The Town expressed concern about the issues not being brought up several years ago, based on the original videos. AMEC re-emphasized that the camera operator for the 2010 video of Mackey Camp area did not identify the cracks and separated joints on their reports as they should have, and that's why they weren't identified earlier. AMEC further noted that in their recent review of the 2015 video, there were a lot more issues than were expected, so they went back to the original video and reviewed every foot of that video to see what was going on. Typically, engineering firms rely on the camera operator's reports instead of pouring through every foot of the video. AMEC noted that the company that did the original video typically does a great job, and that AMEC has talked to them about the concerns associated with the poor video work from 2010.
- Jay Spehar stated that as the project moves on, an emphasis needs to be made on good quality assurance and quality control. Jay asked AMEC to take another look at scour depth to confirm proper scour depth is used for strengthening the manholes. Jay also asked if the manhole tops would be raised above the wash or flush with the wash. AMEC recommends extending the manhole 24" above the wash.
- The costs identified to date for the additional sewer repairs in Mackey Camp are preliminary and actual costs still need to be negotiated with the contractor. A portion

of the cost for the Mackey Camp repairs will be taken out of the \$30,000 allowance and the remaining amount would need to be incorporated into a future change order.

- Motion was made by Jerry Barnes to recommend to Town Council authorization for the Town Manager to direct AMEC to negotiate with Kinkaid on the tier one and manhole protection modifications as recommended by AMEC. John Trujillo seconded the motion. All in favor.

c. Payment Applications

- Kinkaid Civil Construction's (Kinkaid) pay application in the amount of \$354,661.07 for Phase 2 construction services was reviewed and discussed. The full amount will be paid by USDA. Joe Heatherly stated the Town has reviewed the pay application. Discussion held about the stored materials and the certificate of insurance. AMEC stated that the stored material is not onsite, but is stored, is marked for Kinkaid, and is separate from the supplier's other materials. Jay Spehar asked the project team to confirm that the certificate of insurance covers the materials if the place burns down. A motion was made by Rick Powers to recommend to Council the approval of Kinkaid's pay application in the amount of \$354,661.07 subject to funding agency concurrence. Ray Webb seconded the motion. All in favor.
- AMEC's pay application in the amount of \$59,482.39 for three months of design, program management and construction management services was reviewed. Of that amount, \$57,487.32 will be paid by USDA and \$1,995.07 will be paid by WIFA. Joe Heatherly stated the Town has reviewed the pay application. Discussion held about the required redesign of the sewer alignment in Canyon Avenue and potential future redesign needed in other areas of the Town where AMEC had originally designed the sewer main, sent the sewer plans to Southwest Gas, and then Southwest Gas subsequently installed its gas lines along portions of the sewer alignment. Discussion also held about who should be responsible for the redesign costs. The local contacts at Southwest Gas have not been too helpful, so AMEC has been working with Southwest Gas staff in Phoenix to get the information needed. Discussion held about how the Town could have Southwest Gas reimburse the fees associated with the required redesign costs resulting from the recent gas line installation. AMEC noted that they had submitted several copies of the design plans to Southwest Gas prior to the new gas line installations, but had received no comments back on the sewer design. The WWAB asked AMEC to identify the costs for the redesign work so the Town can approach Southwest Gas about payment of said costs, perhaps with a reference to the franchise agreement Southwest Gas has with the Town. A motion was made by John Trujillo to recommend to Council the approval of AMEC's pay application in the amount of \$59,482.39 subject to funding agency concurrence, with the additional direction that Joe Heatherly work with AMEC and Southwest Gas to get the Town reimbursed for the redesign fees and any additional construction fees resulting from the recently installed gas line. Jerry Barnes seconded the motion. All in favor.
- Curtis, Goodwin, Sullivan, Udall & Schwab's (CGSUS) pay application in the amount of \$2,328.96 for legal services was reviewed and discussed. Of that amount, \$2,310.96 will be paid by USDA and \$18.00 will be paid by WIFA. Joe Heatherly noted that the amount listed for "previously payments" needed to be revised to match the amount shown as paid to date on the previous pay application. HILGARTWILSON will update the pay application accordingly. Discussion held about the amount of Susan Goodwin's time spent on Tri-City work. Motion was made by Jerry Barnes to recommend to Council the approval of the CGSUS pay application in the amount of \$2,310.96, subject to funding agency concurrence, with the caveat that the WWAB has not been updated on the 2.7

hours of Susan Goodwin's time related to Tri-City. John Trujillo seconded the motion. Motion was then made by Jerry Barnes to recommend to Council the approval of WIFA Requisition # 44 in the amount of \$2,013.07, of which \$1,995.07 had already been approved with AMEC's invoice, leaving the remaining amount of \$18.00 to be approved in this motion for CGSUS. Approval would be subject to funding agency concurrence. John Trujillo seconded the motion. All in favor.

d. Public Comment on the operation, financing, and construction of the sewer project

- Mayor Dalley asked who has been on the ground representing the Town and watching the Phase 2 construction. AMEC responded that they are at the construction site on a daily basis and are overseeing the construction. Mayor Dalley also stated that Southwest Gas is through with their pipe installation in Miami, so there may be a lot of surprises as to where the new gas lines are located. It was recommended that the project team work with Southwest Gas to identify these gas line locations.

V. Adjournment:

- Rick Powers motioned to adjourn the meeting. Second by Ray Webb. All in favor. The meeting was adjourned at 5:26 pm.