

Committee Members  
Timothy Harris, Chairman  
John Foresto, Vice Chairman  
Michael Callahan, Member  
Michael J Schrader, Member  
Ted Kenney, Member



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## TOWN OF MEDWAY COMMONWEALTH OF MASSACHUSETTS

### WATER FACILITY BUILDING COMMITTEE

APPROVED 11/12/2020

October 22, 2020

Pursuant to Governor Baker's March 12, 2020 Order Suspending Certain Provisions of the Open Meeting Law, and the Governor's March 15, 2020 Order imposing strict limitations on the number of people that may gather in one place, no in-person attendance of members of the public will be permitted at this meeting. Committee members will be participating remotely. For public hearings, access via Zoom is provided for the required opportunity for public participation. Information for participating via Zoom is posted at the end of this Agenda.

In attendance via Zoom:

Michael Boynton, Town Manager  
John Foresto, Selectmen  
David D'Amico, DPW Director  
Peter Pelletier, DPW Deputy Director  
Barry Smith, Water & Sewer Superintendent  
Helen Gordon, Environmental Partners  
Paul Millett, Environmental Partners  
Michael Callahan, Medway Resident  
Ted Kenney, Medway Resident  
Michael Schrader, Medway Resident  
Timothy Harris, Medway Resident  
Jill Karakeian, DPW Program Administrator and Recording Secretary

Michael Boynton opens up the meeting explaining the reason for the meeting and committee. The Town is embarking on a substantial and critical project for the Town of Medway being it the future of the water system. There a number of decisions that need to be made, everything from the layout of the facility, the inclusion of treatment capabilities, treatment functions, and treatment style. He thanked the committee members and the Residents that have stepped up to be part of this important process.

#### **Select a Chairman for the Committee**

John Foresto has asked the committee to nominate a member for Chairman.

Michael Callahan nominates Timothy Harris. Timothy Harris agrees with the nomination. No other members nominated.

**Ted Kenney makes a motion to appoint Timothy Harris as Chairman, passed unanimously.**

David D'Amico suggests a Vice Chairman be appointed.

**John Foresto nominates himself as Vice Chairman, Timothy Harris seconds. Motion passed unanimously.**

### **Introduction**

Helen Gordon – Environmental Partners. Project Manager for the OPM project. I work on a day to day basis on this project with the rest of the design team and always available for discussion or to talk about the project. Our goal for OPM is to make sure that we provide you with the final product you are looking for and that we stay within scope, schedule and budget and understand the impact of any decisions that you as a committee might make, whether it be impact on schedule, budget or anything else. Standing operating procedure for OPM is to work with you as a partner, this is your plant and we want to make it a great process and be as communicative as possible throughout the project.

John Foresto – Board Member for 14 years on the Board of Selectmen, Town of Medway. Retired chemical engineer

Barry Smith – Water & Sewer Superintendent, Town of Medway

Paul Millette – principal with Environmental Partners. I've worked on a dozen Water Treatment plants. Currently working on plant in Town of Medfield. Helen and I are working as a team and one of my jobs is to manage and provide a good product, specifically one of the areas that I'm very strong in is cost estimating, our job is to keep everyone accountable, both designer and the contractor to make sure everyone holds up their end of the bargain.

Michael Boynton – Town Manager, Town of Medway

Ted Kenney – Resident of the Town of Medway over 30 years, retired Deputy Executive Director for New England Water Works Association after 30 years and ran the Educational Program, currently independent consulting projects with DEP and New England Water Works

Peter Pelletier – DPW Deputy Director, Town of Medway

Michael Schrader – Resident of Town of Medway over 20 years, Professional Engineer for 30 years, member of the Medway Finance Committee

Jill Karakeian – Program Administrator for the DPW, Town of Medway and recording secretary

David D'Amico – DPW Director, Town of Medway. Working on our water and sewer system, in order to have a community that's going to thrive and grow – we need to do something on our water end, getting up to our permitted capacity at all the wells is a step and being able to put the plant in and make sure we have clean water that meets DEP regulations and drinking water standards, this plant and with other work we are doing will service us for the next 30-40 years plus.

Michael Callahan – Resident of the Town of Medway

Timothy Harris – Resident of the Town of Medway for 20 years. Was involved in the Waste Water Treatment Plant about 25 years ago, works in the industry for over 20 years

### **Presentation**

Helen Gordon presents the schedule and gives a summary of the work that's been done to date and where we are for the overall schedule of the project. Shows a layout of the site and the proposed facility location. Have had several meetings with DPW and Design Team coming to that conclusion and discuss the drivers associated with the decision of the location.

A quick overview of the Designer Selection process and present the criteria that's been put together so you can mull that over and we can finalize that and talk about the schedule for the Designer selection.

Helen Gordon shows the schedule showing that the project was started in April – First piece of work was to get approval to run pilot plant including field work, survey, wetlands, borings of the site and put together a proposal to submit to the state to allow us to bring the actual small trailer to each of the water supplies so we could test the quality based on parameters we were looking for to come up with the design criteria for the project design. Contracted to run the Pilot Plant, come up with a schematic, civil layout of the facility, schematic layout of the interior of the Administration, Garage and Treatment Plant facility and then bring you through the Design Selection process.

Timothy Harris asked if everything to this point was complete. Helen confirms yes.

Timothy Harris asked about the criteria of the design, if it was 15 years out based upon the expansion of residents? Helen states it is the criteria for the quality piece and Tim is asking about the quantity piece. The quantity piece is based on the projections from our Integrated Water Resource Master Plan, which is 20 years and it is also the size of the facility is based on the limits that we have for withdrawal at the well supply.

The Pilot Plant analysis was done over a 2-month period between July and August. May and June the proposal was put together for the State and to get approval. There is a report on the Piloting and we have a criteria recommendation associated with that work performed. The results of that suggests that the PH adjustment will be potassium hydroxide (KOH) and there will be a peroxidation that will be required for potassium permanganate. We will be doing disinfecting with sodium hypochlorite, the direction pressure filters will be green sand, that has worked very well. From the residual management, we don't have a lot, if we can get that sludge in the collection system, that would mean we would not have to construct lagoons. Helen has a call into the management team at CRPCD to talk about the sludge capacity that we would be producing and whether or not that could be utilized instead of lagoons.

Timothy Harris asked with regards to the sludge, what is the concept of delivering it to the Waste Water Treatment Plant. Helen Gordon states that it would have to go into the lagoons to de-water. We are planning on recycling 10% of the residuals flow. We are able to do that based on the quality of the various wells. We are basing the design over the most challenging mix of well supplies and well quality.

In addition to the Pilot Plant, PFOS sampling was conducted. We have a new MCL that is coming out by the end of the year, which is 20 parts per a trillion for the 6 PFA's. We tested at each of the wells and they are all under the 20. Village Street Well is close to the 10.

## **Preliminary Design discussion**

John Foresto questioned if the flex capacity impact our raw capacity at the plant. David D'Amico says there is a certain level we have to be at and yes, it will increase and it will impact. Helen says that is a decision the town has to make. There is some limitation currently with regards to developments. We have a site and design for the lagoons. There is an understanding of a cost benefit that the Town has to look at a community. If it works to get the sludge to the treatment plant and doesn't impact negatively on the capacity, we might be able to go to no lagoons.

Michael Boynton, confirms that the capacity is an ongoing issue to the Town and working with the CRPCD to obtain capacity from Franklin, who has immediately stated there is no capacity. The district agreement states, only industrial users would require permit approval from the district before tying in and this project qualifies as an industrial user.

Paul Millett, explains sludge from a water treatment plant is much different than sludge from a waste water treatment plant. When you backwash the filters after they've filtered out the iron and manganese, you backwash from the bottom up. The sludge lagoons won't have a smell or create any issues with residents.

Michael Boynton asked if we don't receive the permit for the lagoons, is there a way to truck the waste water off site.

Paul Millett explains that is possible. We take the backwash water, let the sludge settle to the bottom, skim off the water and recycle that. Send the sludge through a de-watering process, which squeezes the water out and the solid part can be taken off into a dumpster and disposed of at an appropriate disposal location. There is no adverse impact from having lagoons onsite. You do need a permit from DEP but straight forward. There are several options available.

Helen Gordon states that once the Designer is selected, at the 30% design part of the conversation can have them to auger into the three options and come up with cost estimates to help determine which would be best for the community with regards to the waste water. Cost estimates that are done do include a life cycle cost estimate.

David D'Amico states that another major factor is PFAS, because we don't have a problem currently, but if we have to filter for PFAS, that would have to be trucked off site.

Helen Gordon shows the PFAS summary. It shows that Village Street is hovering over 10 parts per trillion, 10 and above is an area that Mass DEP is looking at. You are still under the MCL, for example, they've appropriated funds for PFAS removal, design of it and also construction of it. Grants were announced and part of that requirements of those projects is that you have to show that the treatment process that you are putting in place will get you down to 10 parts per trillion consistently. You are required to track a running quarterly average over the course of a year to track your PFAS levels to show you are under the 20.

Timothy Harris asked for a list of funds and grants available. Helen Gordon will get that list together.

Helen Gordon submitted for the SRF Drinking Water program in August. The Intended Use plan should be coming out in December/January. If it's awarded and we do get on the list, we would submit plans and specifications for approval at the October 2021 deadline.

With regards to any PFAS treatment, we could look at a potential grant. Because the numbers are low, we talked about is a minimum, making sure that there is an area on site for future addition for GAC vessels for removal of PFAS as needed. Currently we have 6 constituents of the PFAS family that are being controlled by Mass DEP under the MCL. What will happen in the next 5 or 10 years, will they add more, will we have to start testing more. Not recommended to spend the funds and money to install GAC vessels that aren't going to be used and just sitting there in the event that they are needed. Recommended that we set up the design as such that they can be easily added on.

Michael Boynton, asked if it was possible to get the cost to have PFAS removal available for day one. The concern is that we are at least a year out before we put a shovel in the ground and the regulations could definitely change.

### **Design Selection Criteria discussion**

Helen Gordon, when going out for the Designer selection, we will make sure the team has PFAS treatment design and when we get to the first stages, have the Designer put together some general cost to add that on. PFAS treatment is so new, right now GAC works but as soon as it's spent, it has to be removed, disposed of and regenerated. Cost of how often you have to replace the media based on an assumption of loading.

Helen Gordon brings up the site plan, showing the layout. The real challenge with both the sites, we are by the Charles River, we have the 100' buffer, 200' river front, FEMA Flood Zone AE and FEMA Flood Zone X. We had a workshop to discuss a questioner that was distributed with regards to space requirements to identify what was going to happen with the storage facility (garage), how many people were going to be in the administration area and what offices were needed. Then the treatment plant, what chemicals, what treatment, how big of footprint was required.

Timothy Harris questioned why the treatment facility is between the garage and the administration building.

Helen Gordon states now that the contours are complete, the buildings can be moved around. Once the Design selection is done, they will take the current concept, they will look at cut and fill and may come up with a better layout. There is also space for the lagoons, should we need them.

Michael Boynton states he wants to make sure when we are doing the RFP for the Architect, that it's clear that they will have an obligation to work with the Town and the abutters to address impacts. They will still have meet with our Design Review Team to go through our Design Review Process.

Timothy Harris asks about the electricity. Do we have capacity? David D'Amico says we are just finishing up a review and upgrade of the site with this project in mind. Barry Smith confirms that they just changed transformers last week onsite.

Helen Gordon talked a little about the Designer Selection Process. We are very close in getting a package together. Asked the Board how much time they are going to want to perform the review. Environmental Partners puts a criteria spreadsheet together that will be used for the review process. A few additional items will be added that were discussed at tonight's meeting (ie. Architectural experience) and will send this to be reviewed. The Design Selection Process is a 2 step process. You will first get qualifications, then we will identify the top 3 and then you go to the interview stage. During the interview stage you will be and evaluation and at that point you will be able to get a feel if the team has actually ever worked together.

Ted Kenney explains between the quantitative and qualitative holistic, we are talking right down to the esthetics of the architectural design and working with the neighbors and the community. We are looking for the company that can get the buy in in any level.

Paul Millett asked that if anyone of the committee members are approached after the RFQ package is sent out for Bid that we need to be careful of who says what to who.

Michael Boynton states any questions asked need to go through Environmental Partners. All the board members agreed. He doesn't want any contradictions.

Helen Gordon talks about the dates on the schedule to maybe add or adjust.

Timothy Harris suggests moving the Draft Proposal October 30<sup>th</sup> date back a couple weeks if that's possible with the holidays in the middle there. Asked if there were any deadlines that we will have to be concerned with.

Paul Millett states there are no hard end dates saying the plant has to be online on a certain date. The main question is what is the economy going to be like next year or the year after, will the prices be up or down. Looking at the schedule, we do have the Designer on board for January/February of next year and the design will take one-year total. The bidding will happen in February of 2022.

The Board discusses the best days for the next meeting. Helen Gordon explains she will put together a package for review and suggests we meet in 3 weeks. Agreed that Thursday nights work best.

John Foresto asked about the strategic plan from Klienfelder and asked David D'Amico to forward it out to the Board members for review. David D'Amico will also forward the Haley & Ward report of the supply analysis as well.

Timothy Harris requested a site visit if anyone else is interested. David D'Amico agrees and the board has agreed on 10/31/20 @ 9:00 am. Helen Gordon will also attend the site visit.

John Foresto asked for a communication list of all the members, names, email addresses and contact #'s. Jill Karakeian agreed to put that list together and forward it.

**David D'Amico motions to adjourn 8:25pm, Ted Kenney seconds.**