

Committee Members  
Timothy Harris, Chair  
John Foresto, Vice-Chair  
Michael Callahan, Member  
Michael J Schrader, Member  
Ted Kenney, Member  
David D'Amico, Member



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## TOWN OF MEDWAY COMMONWEALTH OF MASSACHUSETTS

### WATER FACILITY BUILDING COMMITTEE

APPROVED 7/22/21

July 8, 2021

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:

Tim Harris, Medway Resident & Chair  
John Foresto, Selectmen & Vice-Chair  
Ted Kenney, Medway Resident & Member  
Michael Callahan, Medway Resident & Member  
David D'Amico, Medway Resident & Member  
Pete Pelletier, DPW Director  
Sean Harrington, DPW Deputy Director  
Barry Smith, Water/Sewer Superintendent  
Helen Gordon, Environmental Partners  
Chris Grillo, Environmental Partners  
Jim Cray, Wright-Pierce  
Jill Karakeian, DPW Program Administrator and Recording Secretary

**Chair Harris called the meeting to order @ 7:02pm roll call and asked all attending members to state their name and position.**

#### **Project Update**

Helen Gordon explained that Wright-Pierce has submitted the Basis of Design Report (BDR) and Environmental Partners is in the process of putting together their comments. Feels it would be good that Jim Cray to present the BDR tonight to the Committee. There are no changes to the schedule at this point. I've also forwarded to the Committee Members in the latest Monthly Report and it has, as discussed, tracking the budget adding the 2 columns that were suggested. Made some highlights on the base plan and the only action item I wanted to discuss was the FEMA flood plain elevation adjustment and it won't be needed for this design. We will still get a price for survey and submission in case the committee would like to move forward with that in the future.

Jim Cray shares his screen and shows the plans included in the BDR. The first plan in the set is the existing site plan updating it with the survey information and added some proposed water mains. The

second plan showed the site layout with the proposed buildings and parking areas and the hand-capped parking area.

Chair Harris questioned the hand-cap parking area and things it may be confusing to people that don't come to the plant on a daily basis.

Member D'Amico recommended talking to Town Manager Michael Boynton, who is very knowledgeable in hand-cap parking.

Jim Cray will revisit the hand-cap area and make necessary changes. With regards to the parking areas, we've kept the same number of spots. Changed the location of the generator tucked behind the building, which reduces the conduit run to the building. There is also a dumpster pad shown on the plan. Still maintaining the stormwater management area.

Member D'Amico concerned with the asphalt being torn up and maybe use concrete.

Superintendent Smith feels that the way it's presented will work.

Jim Cray explains that at the corners of the building and near the generator, there will be bollards installed.

Superintendent Smith asked if there was going to be roof over the generator area.

Jim Cray probably not because the stack of the generator will be too high to allow for a roof. There will be an enclosure around the generator and being tucked near the building it should help with the sound.

Jim Cray shows the grading plan, explains it is pretty flat and as we progress more stormwater and grading will be added to the plan. The site piping on the plan is preliminary and shows the raw water main coming down Populatic and shows it going down the existing corridor. There will be site visit to confirm and try to keep some work out of the flood zone. We will also be able to decide what piping can be re-used or replaced.

Superintendent Smith feels the pipes are old and it should be replaced.

Jim Cray will make sure to incorporate the replacement of the pipes as the design goes forward.

Helen Gordon explains since the existing Chemical Building won't be used we can run the pipes in a less impactful location and run them more direct.

Jim Cray we will have to look at where the meters are. Each of the wells will have their own separate flow meters for the raw.

Jim Cray shows how the Oakland and Village street wells come in into the site and combine with Populatic, they would come into the northeast side of the building and then finish water would come out on the south side of the building and hug the side of the building and bring it out to Populatic and connect it to the new finish water main. We will put some site hydrants in once we speak to the Fire Department to get their recommendation.

Chair Harris expresses concerns about the removal of trees and making as little as possible.

Jim Cray explains that they will do their best but it is going to be a tight site but will definitely re-plant at the end of the construction process.

Superintendent Smith explains that while he's been onsite, a few of the neighbors have stopped and expressed that they do understand that during the construction there will be removal of trees and vegetation and were told that there will be plantings at the end of the project to fill back in as much as possible.

Jim Cray shows a grinder pump station and hopes that the sanitary from the building to flow by gravity over to the sewer manhole over at the entry to the site. Shows a culvert and how the storm drainage is going to flow.

Jim Cray shows the floor plan with some small changes. Put more details, the locker rooms were separated out. There was a conference call with Richard Boucher, IT to confirm the needs for the new building.

Chair Harris questioned the common wall between the office space and treatment building, what is being done different with regards to a protection stand point.

Jim Cray explains that the chemical rooms inside the treatment building will need to be fire rated and separate ventilation. The main wall will be a thicker wall and we will go by code for the fire protection end of things.

Member D'Amico questioned the water softener mentioned in the BDR and where that system would be located.

Jim Cray the water softening system is required if the hardness is about 2 grains, it is required and they are very small cylinders and don't take up a lot of space. They will be located in the Phosphate and Chloride room.

Jim Cray shows the elevations of the buildings and exterior. It is showing a combination of metal siding and bring veneer on the outside. We are proposing removal insulation translucent skylights over the PFAS area. It allows access and they come with lifting hooks on them. They can be pulled off with a crane, which allows the new vessels to be dropped in vertically. It also provides natural lighting. There are also some translucent panels that allow access.

Superintendent Smith questioned the ability to remove the chemical storage tanks, should they have a leak, is there availability to get them out or will a translucent panel need to be removed.

Jim Cray will make sure that is looked at to make sure that is easily accessible. In the Administrative area, there will be suspended acoustic tile ceiling. The electric room, some of the height of the gear will probably not allow for ceiling tile.

Member D'Amico expresses his concerns with using a flat roof, being around a lot of trees.

Jim Cray is hoping to keep the larger trees away from the building. If we went with a more traditional roof line, that would definitely drive the cost up. We can offer more views of the rendering and help put together flyers and informational packets for the residents.

Jim Cray shows the general layout of the structural portion of the building and will get defined more as we progress. For the process, the general treatment process flow, the wells will come into the building. Wright-Pierce did a preliminary cost evaluation for potentially using an aeration system ahead of the equalization tank to raise the PH. One of the pilot study found that was effective of raising the PH and almost eliminating the need for KOH. It looks like over time, it would pay off and you would save some considerable money on chemical usage. It's a higher initial capital cost to put it in the plan now but it is in there for discussion. It would be located outside and has a pretty small blower, approximately 3-5 horse power motor. We would look to have that located at the back of the building.

Helen Gordon feels that more information is needed on this aeration system.

Jim Cray shares the Estimated Cost included in the BDR to show the savings and will go over this in more detail.

Jim Cray continues to go over the treatment process flow plan. Raw water will come in and go through an equalization tank, then there will be process transfer pumps to pump it through the treatment process into the clear well. Water is then pre-treated, then through the green sand filters, then to the clear well. We have a separate wash water supply tank that we are proposing. It provides a dedicated storage for wash water so when you are pumping and you do a back-wash, it won't impact the level of your clear well. It also allows a non-chlorinated back-wash supply. It is then pumped out to the system and hit with the phosphate and KOH before it leaves the building.

Member D'Amico says Oakland Street site will have another well in the future.

Jim Cray shares the general floor plan of the treatment building and explains there is still more details that need to be added.

Member Kenney questioned Helen Gordon on the next step with regards to the review of the BDR.

Helen Gordon explains that Environmental Partners will pull all the comments together, put them on a spreadsheet and gets tracked on resolution or action item and when they will be addressed. We would also like any comments that any of the committee members have, pull it all together, send it over to Wright-Pierce, then we get together with Wright-Pierce in a work shop to discuss and make recommendations. I would also like Director Pelletier, Deputy-Director Harrington and Superintendent Smith included in the work shop. Wright-Pierce will then respond to the questions in the work shop but this will not stop the progress and moving forward.

Chris Grillo wanted to note that the GeoTechnical Report was shared summary. The general theme was that there wasn't anything out of the ordinary at the site that was unexpected.

Chair Harris questioned the ground water and asked if it was a more localized dewatering or will it require frack-tanks.

Jim Cray requires an engineer design for the dewatering and put multiple points and there will be a frack-tank to limit the sediment. Nothing out of the ordinary that what's been seen at other sites.

Member Kenney asked about any updates from Charles River Pollution Control.

Jim Cray explains it looks favorable and we just need to get some clarification of the sampling procedures and what's required, but it is all pretty standard.

Member D'Amico questioned the submission to DEP by the end of next week mentioned in the BDR.

Helen Gordon explains it's a courtesy submission – it's not binding. Asked the committee members to please have their comments from BDR back to Environmental Partners by the middle of next week. At our next meeting we should be able to look at the Cost Estimate. At our next meeting we will want to discuss the potential aeration tank and anything else that we think could be an add/alternate or not and continue to discuss these issues along the way. We will be putting together a request for information, that is a piece we will need from Town Manager Boynton and his team for the funding portion that is required in October.

### **Approval of Past Meeting Minutes**

Member Kenney makes a motion to jointly approve the meeting minutes from 5/13/21, 5/27/21 and 6/24/21 meetings and to hold meeting minutes from 3/4/21 for further review, Member Callahan seconds. The motion carries unanimously. A roll call vote was taken due to the nature of the Zoom meeting.

**The next meeting is scheduled for July 22, 2021 @ 7:00pm.**

**Member Kenney makes a motion to adjourn at 8:30pm Member Callahan seconds. The motion carries unanimously. A roll call vote was taken due to the nature of the remote Zoom meeting.**