



# Fire Station Building Review Committee

Meeting Minutes  
Wednesday, August 2, 2017  
APPROVED

Tour of the Hopkinton Fire Station Pellet Boiler scheduled for 6:00 pm

Committee members in attendance: Allan Brown – Chairman, Kimberley Edelman, Peter Ladd, David Hartman, Howard Kirchner, Jonathan Lord, Janice Loz

Absent: Ed Raymond, Peter Wyman (both on a fire call, returned around 7:40 pm)

Others present: Anthony Mento & Jason Lacombe – SMP Architects, Ken Holmes – North Branch Construction, Mark Vincello – W V Engineering, Sue Hemingway, Ed Mical

## **1. Mechanical System**

- A. Anthony said the drawings have been updated to show the wall system (ICF) that was chosen. Mark explained that the wall system chosen cools off very slowly and heats up very slowly, what is chosen for a mechanical system needs to react slowly, otherwise the temperatures will be over shot every time. Mark said he knows that radiant floors are wanted in the bay area and he feels this would be a good mix with the wall system.
- B. Mark said in the offices, training room, meeting room space, option 1 would be radiant floors with a ventilation system. Option 2 would be radiant floor, air conditioning for the lobby and the training room and option 3 would be air condition the whole area.
- C. Mark explained radiant floors hold 110 degree water, if your burning oil or pellets, the boiler will generally run a little hotter. Pellet furnace likes to run at 170-175 degrees and oil doesn't like to get below 140 degrees. Condensing gas boilers like to run at 100-110 degrees, these boilers are very efficient, about 95-96% efficient range.
- D. Other options are ground source or air source heat pumps. Anthony confirmed if there was an air source heat pump in the administration wing, it would do heat and cooling? Mark said yes. Kimberley asked how clean is the air. Mark said it can be as clean as how often the filters are changed, it doesn't generate dirt, but it will redistribute it. Anthony said the gear room will have it's own exhaust air component too.
- E. Kimberley asked about solar. Anthony said he will plan for the ability to connect a solar array in the future.
- F. Allan said he wants to make sure the building is built energy efficient because heating systems only last 15 to 20 years.
- G. Mark said he could create an analysis on how much propane, oil or pellets the building size would use in a years time.
- H. Anthony said the goal tonight was to hear about the different systems and try to come to some understanding on what the Committee wants Mark to focus on. He will provide an energy model about what the building usage will be and what the cost and payback will be. Anthony said we want Mark to focus on two systems. Hopkinton has a pellet system in the Fire Station and Highway Department both departments are not happy with this system.
- I. The Committee talked about the high upfront cost for energy efficiency on all levels. Allan is concerned about selling this to the voters. Mark said he will run the numbers for a pellet system. Anthony agrees the

Committee needs the data to be able to understand the cost now, and the long term pay back, and be able to answer the question when it's asked of this Committee. Mark will provide costs for electricity, gas, wood and oil. Howard asked if maintenance costs will be factored as well. Mark said what the energy model does is heating and cooling every hour of the year and adds the data up using a 20 year historic data. The maintenance costs will have to added after. Anthony said once the figures are known for the system that is chosen, the total kilowatts will be known, which will dictate how large a solar array needs to be.

## **2. Other Business**

- A. Anthony brought a sample of the exterior wall for the Committee to look at.
- B. Three window samples were also provided. Anthony estimated there will be about 30 windows in the building. The Committee will decide on the type and how many.
- C. Siding samples were provided.
- D. The Committee will meet on Tuesday, August 8<sup>th</sup> to decide on the windows and siding.
- E. The Committee will meet with SMP on Wednesday, September 6.
- F. **Howard will be posting some fliers.**

## **3. Meeting Minutes**

Peter Wyman moved to approve meeting minutes dated July 19, 2017. Motion was seconded, motion passed unanimously.

## **4. Emergency Operation Center Grant**

- A. Ed Mical reported the Submittal Inventory Form was submitted to NH Historic Resources. Ed said he received an email from the NH Historic Resources informing him they will be coming out to look at the property (149 Main St.). **Ed said he is going to contact FEMA to inform them the town would like to have the house removed before the snows sets in.**

## **5. Geo-technical Borings**

- A. Anthony reported the 6 boring locations have been completed and have been flagged, a report will follow.

Meeting adjourned at 8:05 pm

Recorder of the minutes: Mary Whalen