



HERITAGE RESTORATION, INC.

122 Manton Ave, Box #7
Providence, RI 02909
Office/Fax (401) 490-0888
www.heritagere restoration.net

Massachusetts Incorporation as Heritage Restoration and Preservation

Weekly Work Summary

Project Name: First Congregational Church

Date: January 6th, 2012

Owner: First Congregational Church

Address: 281 High Street

Bristol, RI 02809

Description:

Heating

After many weeks of fiddling and troubleshooting, the Kitchen and the DeWolf room heating systems were deemed inadequate. When we started, the intent was to retain the DeWolf room and Kitchen loop as is, since the system was functioning, for the most part. Circumstantial evidence and some anecdotal information determined that the Kitchen blower was working, although the kitchen would sometimes still be cold. The DeWolf room worked OK about 5 years ago, although was getting worse since then. The assumption on our part was much of the DeWolf room radiators were air bound, preventing free flow of hot water, and allowing the radiators to be underutilized. There was not any corrosion in the pipes discovered. Hot water systems rarely get clogged, especially with 2" feeds.

The kitchen blower heater had some issues, although we thought they could be overcome. The kitchen was incredibly drafty, with an open window hole in the crawlspace, a door that did not close properly, a cold thermostat and a fresh air fan over the stove that was open to the outside. We first sealed off the window, adjusted the door, air sealed behind the thermostat and put temporary rigid foam over the fresh air vent outside (a note was put on the interior switch that we did it). Yet despite all that, the blower refused to work properly. The final culprit was the high air vent was installed lower than the highest pipe, so we could not properly get the air out.

While our hope was to save as much existing as possible, we will have to redo some of the system. First, the blower needs to be properly re-piped, so the high point has an air vent. We will put the blower in the same zone as the bathroom blowers, so the kitchen area can have its own thermostat and loop, and not rely on the DeWolf Room system.

The DeWolf room is a bigger disappointment. The main problem seems to be boiler water temperature. The old boiler ran at an extremely high temperature, perhaps about 200-220 degrees, based on the past "too hot to touch" descriptions, which seemed to work at a terribly inefficient rate. New boilers cannot run above 185. Also, they use an outdoor temperature sensor that keeps the water temperature as hot as it needs to be, so



HERITAGE RESTORATION, INC.

122 Manton Ave, Box #7
Providence, RI 02909
Office/Fax (401) 490-0888
www.heritagerestoration.net

Massachusetts Incorporation as Heritage Restoration and Preservation

on warmer days, the water is cooler. So without 220 degree water, the room cannot get above 65 degrees on days below 30 degrees. Since this is unacceptable for comfort, the only solution is to replace the radiators with the same type as the Sanctuary, using proper heat loss calculations.

We replaced the School, DeWolf and Sanctuary thermostats with internet enabled units. As of now, Pastor Dan, Mark Johnson and Rob Cagnetta have access and can adjust the temperature wherever they can get a phone signal. And the system can be reprogrammed from within the Church's network. We are having trouble with the Network in the School and the DeWolf room and hope to get that fixed soon. And as a side note, the Sanctuary was about 56 degrees after we changed the thermostats (since we could not program them before we left the night before) and took about 3 hours to get to 63 degrees. This provides us with the proof that the new system is adequate.

Lighting and AV

We received the first draft of the AV plan for the Sanctuary, DeWolf Room and School multipurpose room based on the suggestions of the congregational community. We will tweak the wants to meet a better budgetary range.

We also finally received the new microphone piece for Pastor Dan. It meets his criteria for being almost invisible, as well as providing excellent clarity and sound. We look forward to hearing him without the buzz and big mic.

Basement/Sanctuary

Ken from Windsor Masonry worked diligently on the brick piers for the main beams this week.

Dave Aracil, from HRI, completed the main timber replacement, totally 5 pieces and about 50 feet of new big beams. He also started the installation of a sill under the gable wall behind the altar. Each stud on the gable was supported by some haphazard bricks under each of them. This not only scared us, but was not a good long term solution. After that, Dave will install a good solid wall under the altar, so you can have all the step dancers you want.

The electricians from Massed Electric were back to install some more wiring for us. They also wired up the new basement blower heater.

Site Manager

Robert J. Cagnetta

Project Supervisor

Jeremy Ballard