

Draft of a proposal to MWAB to improve meeting house ventilation for Sept 18, 2022

In response to a request from M&W, and with the support of M&W and Finance, B&G proposes an engineering study to increase ventilation in the meeting house on both floors. The HVAC improvements are to increase fresh air ventilation without compromising comfort or increasing the risk of COVID transmission for the occupancy levels⁽¹⁾ that M&W has provided. The current use of window fans to provide fresh air to the meeting room makes hearing vocal ministry difficult and not using the HVAC systems (to avoid distributing any COVID virus present) results in barely tolerable comfort conditions in the meeting room.

B&G fully supports a plan proposed by Pete Malone. The plan has three phases 1) Discovery 2) Design and 3) Execution. The Discovery phase work will assess the current interior environment conditions and HVAC and power capabilities. Deficiencies relative to standards or more stringent guidelines and requirements would be identified for the first floor, the resident's apartment and the public space downstairs. The Discovery Phase would address all three areas. The outcome of the Discovery Phase would influence the decision to address the entire building as one project or to address each area in separate projects.

Currently, there are thermally efficient windows in some places in the meeting house and older, single pane windows with storm windows in other places. The plan requests the heating and cooling calculations be done for the current state as well as if all windows were thermally efficient. This will help B&G determine the value of upgrading the older windows either now or at a later time. The cost is negligible to do this added calculation.

This Discovery phase will cost \$3500 and take six (6) weeks from the date the contract is signed.

After completion of these calculation B&G will propose a general plan forward, and if supported by MWAB, the Design phase would commence followed by the Execution phase.

After the completion of each phase, and during each if there is a need, B&G would seek input from and confirm unity with MWAB and/or the whole meeting.

We roughly estimate the cost of the Discovery and Design phases at \$9,000 +/- 30%. We will estimate the cost for the Execution phase after a general plan is developed.

(1) Meeting room - 80 worshippers of people in attendance at a special gathering. Downstairs – minimum of 20 people and as many as 80 people.