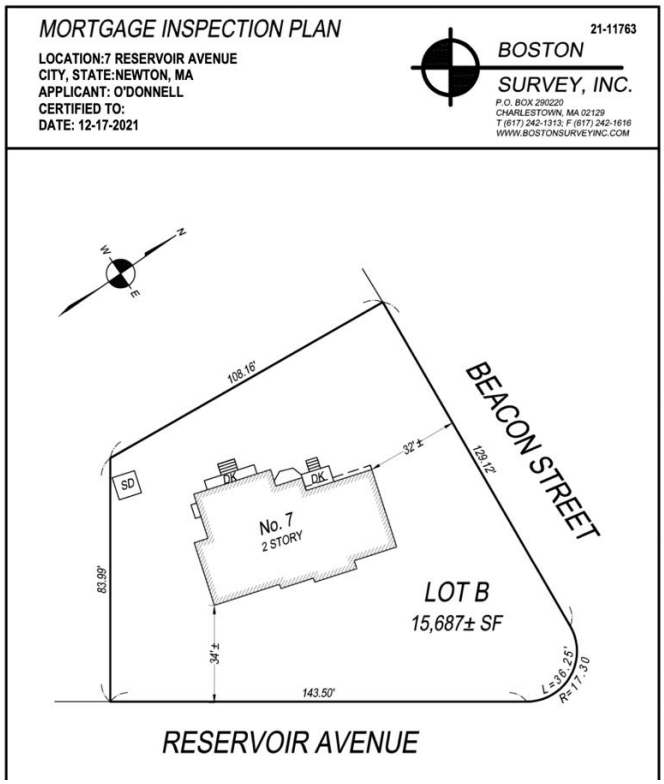
Supplement for Window Replacement at 7 Reservoir Ave

The Rough Opening for one bottom window is 91 31/32" x 76 ½". There are two of these windows. Because it is over a 7 ½ ft wide opening, the following companies do not source an all-wood window with this large of rough opening: Harvey, Andersen, Jeld-wen, and Schuco

Marvin does make a window this large in wood. For the exact same windows the additional cost to move from fiberglass to wood it $8,720. This is a large financial burden. We are requesting for the committee to approve fiberglass for the following reasons.

1. Cost
2. This is not a public thoroughfare
    - The ability to see the windows up close would be by personal invite only. The general public will not be accessing our back yard. Below outlines the ability to see them from Beacon St.



It is 68 ft from the closest corner of the rough opening to the rock wall on Beacon St where there is a wall of privet bushes.

From the sidewalk the windows are not visible

From the middle of Beacon Street (double yellow line) windows are still not visible

Another view from middle of Beacon Street (double yellow line) where windows are not visible

From sidewalk across Beacon St, partially visible approximately 150 ft away

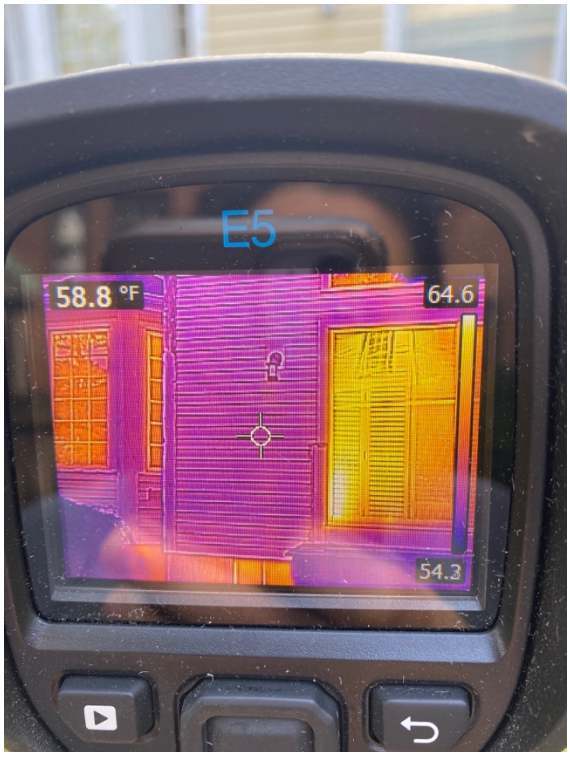
3. Future Landscape Plan
    - We plan to put forth a landscape plan to the committee in the spring for the side of the house along Beacon St to plant green giant arborvitae to give some noise control and privacy for our back yard. If approved by the committee, once grown to mature height, the windows and anything in the backyard will no longer be seen.
4. Existing Architectural Elements on the house that are currently fiberglass
    - The sidelight panels and trim on the front door of the house in public view are fiberglass (with a steel front door)
    - The back porch door is also made of fiberglass
    - All of the muntins/ window grills on the house are made of a fiberglass/pvc material that was factory applied with a strong 3M adhesive that are permanently fixed. This includes 9 windows on the front of the house, one window on one side, two on the other side, and many in the back



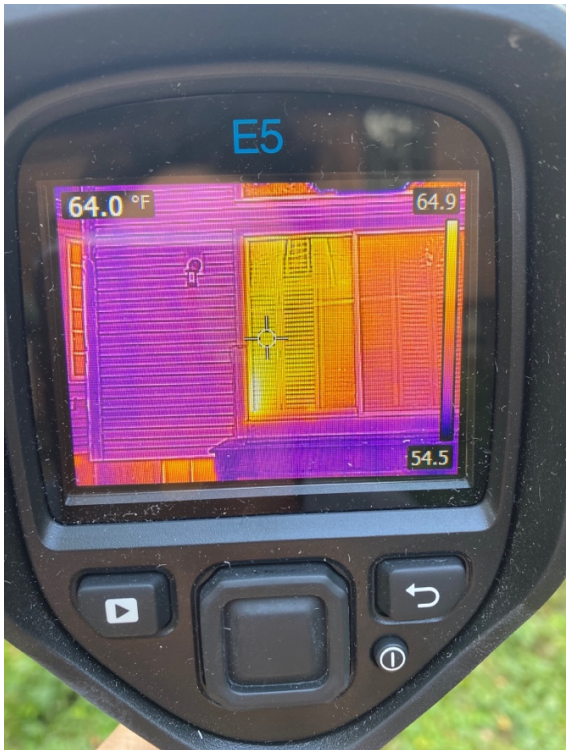
5. Energy Consumption
    - We can't delay putting in these windows due the increased costs for heating. With all four windows combined, it's approximately 15ft wide and 8 ½ft tall or 127 sq ft of no insulation. The heater can't keep up and warm the room because of heavy drafts of cold air. A thermal imaging was done on the house and the windows are essentially nothing more than a barrier (See images below). To get through most of this winter, we will put the pink Owens Corning sheathing foam in the interior of the house behind the windows and plastic shrink wrap. This will help reduce our carbon footprint, keep our hvac system from overworking, as well as keep heating costs down.

Thermal Imaging Camera

Outside Temperature at time of imaging: 55 degrees Fahrenheit
Interior Thermostat Temperature at time of imaging: 69 degrees Fahrenheit



Insulated Wall reading at 58.8° F



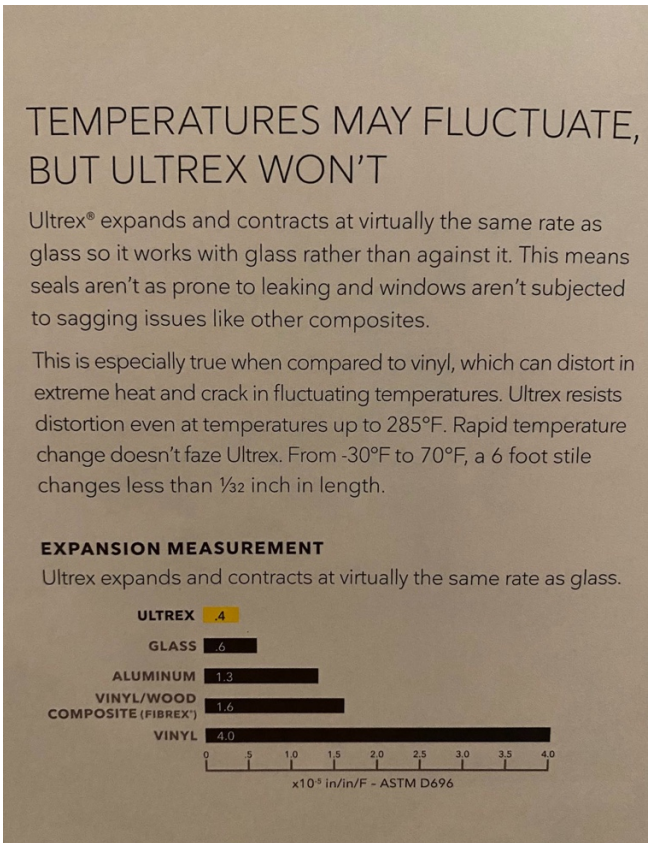
Windows reading at 64° F (5° below interior)

Window with small argon patch @ 59° F

Window where no argon @ 62.6° F

Conclusion: These windows are holding no internal heat

6. Longevity due to size
    - The back of the house gets afternoon sun. The Marvin contact said that because the window is so large that there is more potential for sagging and leaking issues with the wood because it expands and contracts at a higher rate than fiberglass. He said we will pay more the wood windows and will have problems earlier on.



7. Age of Home
    - The house was built in 1994