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Wappingers Falls, New York 12590
Phone: 845-223-3202

November 10, 2025

Mr. Nicholas Zachary, Chairman
Village of Buchanan Planning Board
Village Hall
236 Tate Avenue
Buchanan, New York 10511

Re: Gallon Measure (Bernard & Brian Calabro)
3106 Albany Post Road
Buchanan, New York

Mr. Zachary

I have been retained by the owners of the property located at 3106 Albany Post Road in the Village of Buchanan to review the conditions of the structure known as the “gallon jug” and to offer my opinion with respect to lifting or relocating the structure. I offer the following:

The structure is resting on a crawl space and a concrete foundation. The structure consists of a wooden frame onto which wire lathe and plaster have been placed to form the shape of the jug. Refer to the photographs attached to this letter. I am not sure the age of the structure. There are many stress cracks in the finished plaster surface of the structure.

The wood framing is not in good condition due to its age and exposure to moisture. The framing is not well connected to the base and is showing signs of deterioration. The plaster is also not in good condition. The wire lathe in some areas is exposed and corroded. There are areas where the plaster has dislodged from the wire lathe. This reduces the ability of the plaster to resist shear forces acting on the structure.

It appears that the wooden structure was built on the concrete foundation which acts as a diaphragm at the base of the structure which provides lateral support to the wooden structure. It is my opinion that lifting the structure off the base will remove any lateral stability the wooden structure has and will cause the vertical walls to collapse inward. The structure was not designed or built with the intention to rig and lift it.

It is also my opinion that the wire lathe and plaster will not be able to survive the stresses that will be caused by rigging and lifting the structure and may cause more of the plaster to become dislodged from the wire lathe.

In summary, it is my opinion that the internal wooden structure along with the wire lathe and plaster finishes are not in good condition and will not be able to survive lifting or relocating of the structure to another location.

Please feel free to contact me if you have any questions or need further information.

Sincerely,



Mark A. Day, PE









