

February 24th, 2022

Michele Steger
5953 S Phillips Ave,
Greenfield, WI 53221

Re: Structural Inspection Report for Jon Ellingen at 5953 S Phillips Ave, Greenfield, WI 53221

Dear Michele Steger,

Jendusa Engineering (JE) has performed the structural inspections on February 23rd, 2022, at the above address. The purpose of this site visit is to inspect the existing leaning basement wall at stair location. The following discusses, and is limited to, our observations and conclusions regarding the block basement wall deflection at top only to an extent that was visible at the time of our observations. The scope of work is to evaluate the structural integrity of that basement block wall with but not any other elements of the structure and the recommendations are provided accordingly.

Based on our observations, there are no horizontal or vertical cracks visible along the full length of the slight leaning basement wall inside and outside of the house. The current owner has been lived in this property for past 30 years and we were told by the current owner that the wall has that slight leaning signs since many years and there was no movement further since many years. This 7'-6" high unbraced block reinforced basement wall is deflected by a 1" at the top. The unbraced length of this block wall is 12'-0" and this wall is braced by the 1st level by minimum of 3'-0" on either side. This wall deformation varies by 1" to 1/2" in other locations and does not show any signs of consistent wall deflection or cracks.

Based on our evaluations and observation, the deformations observed on this basement walls are due to At-rest soil pressure and does show the signs of deflection at the top, but we are in the impression that this wall has additional reinforcement, and it is resisting the At-rest soil pressure after the deflection of 1" at the top of the wall. The grade outside on this side of the house was sloping towards the house and that will cause the rainwater to flow towards the house. The grade needs to be levelled and sloped away from the house to avoid any further rainwater to flow towards the house. The downspouts need to be checked and extend the length further away from the house to avoid any further saturated soil pressure on basement walls. This basement wall will not require any immediate repair for structural integrity reasons and required periodical monitoring for the next one year. The periodical monitoring by the owner is necessary for any horizontal or vertical cracks on this basement walls. The licensed structural engineer needs to be reported in case of any cracks for repair from outside of basement wall on this side. The further

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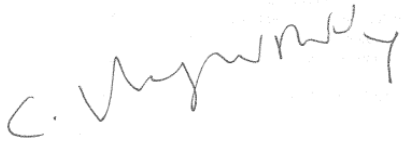
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movement in this wall will not be catastrophic and it will be a slow movement with signs of cracks. The owner should be responsible for reporting the signs of cracks to the structural engineer for further evaluation and repairs. There were no signs of foundation settlement at the time of observations.

The scope of work was limited to the leaning basement wall only at the stair location and we have not performed a full structural inspection of the building, nor shall our review be misconstrued as a guarantee, expressed, or implied, of any existing structural element. If you have any questions or would like to discuss this report, please let us know.

Sincerely,



Venu Chada, PE
President / Engineering Manager
Jendusa Engineering, Inc.

