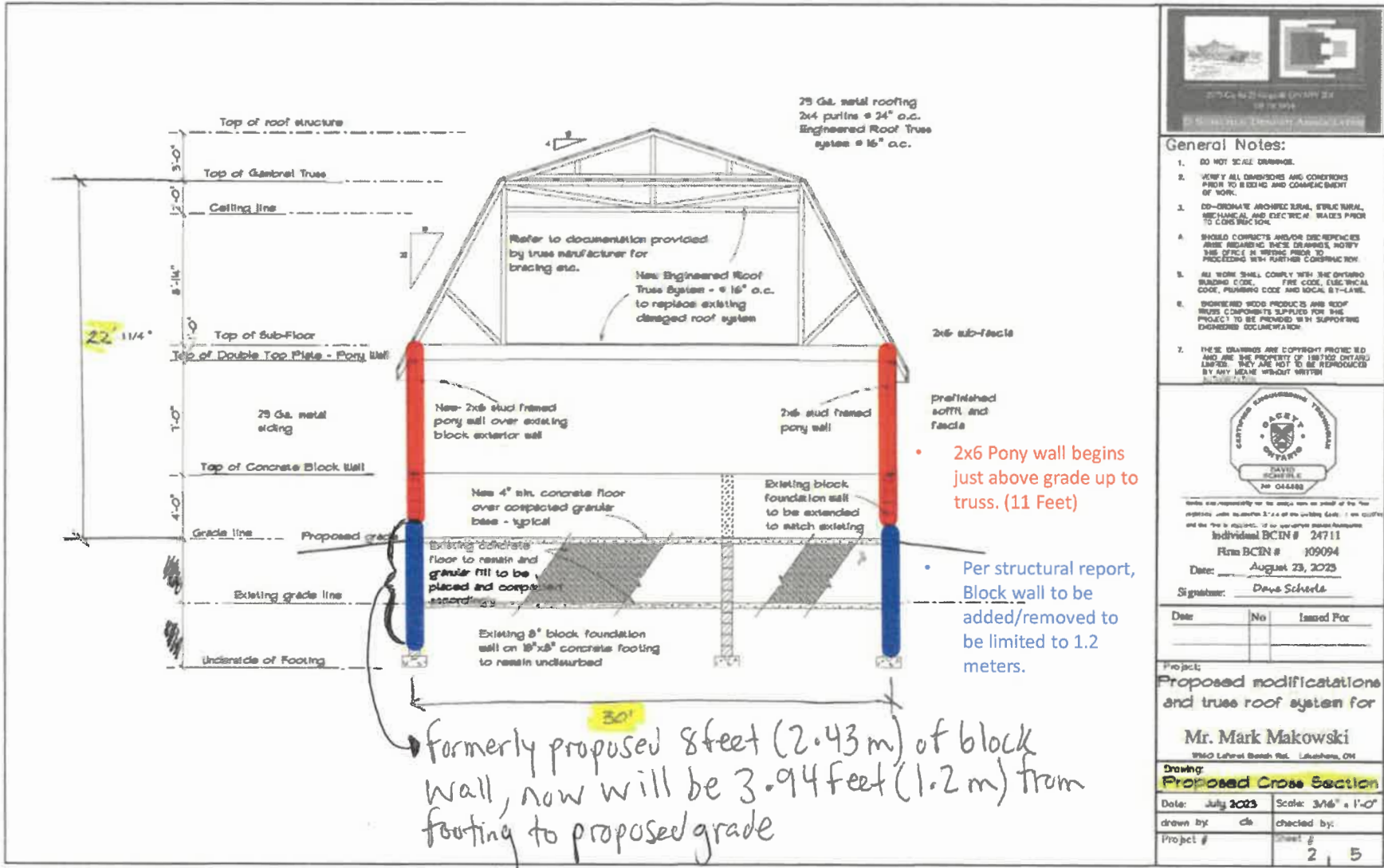
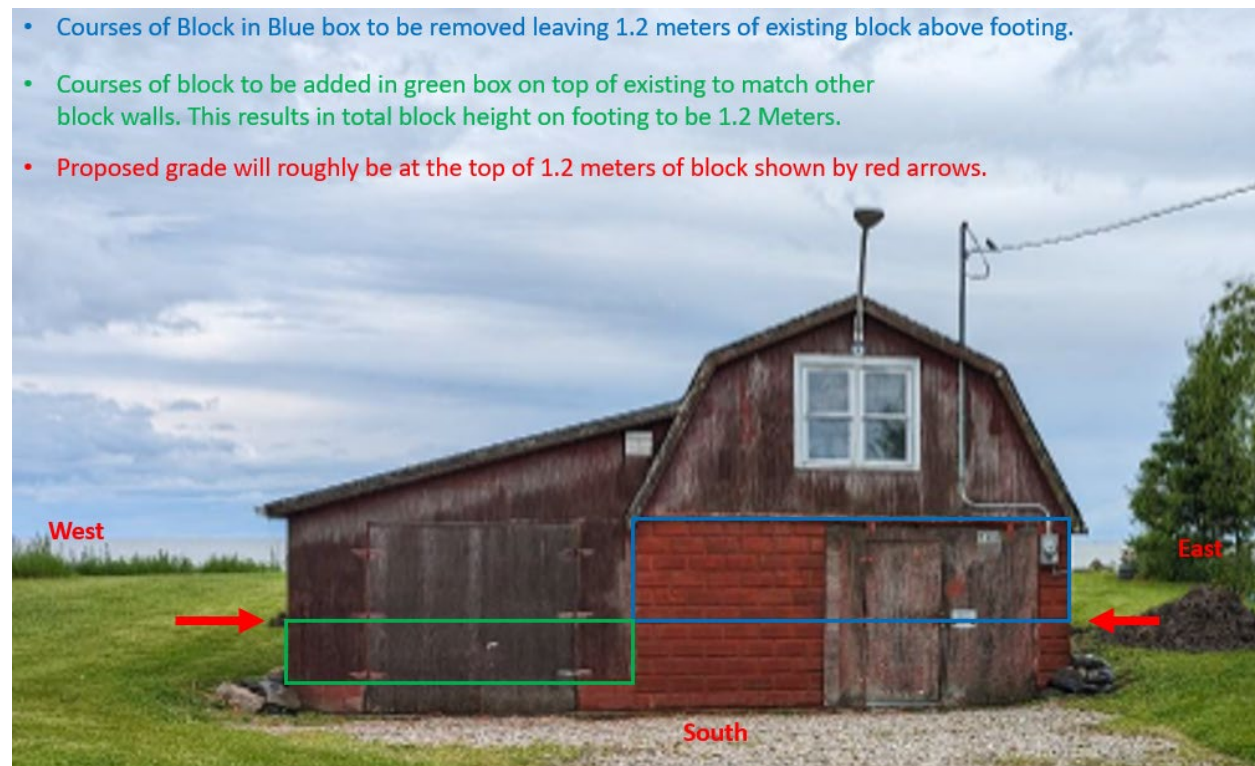


Proposed Cross Section for Renovation



As seen in the photographs included in the structural report the north, south, and east wall currently have 11 courses of block on top of the footing (2.2 meters). The existing west wall only has 2 courses of block on top of the footing (0.4 meters). The north, south, and east block walls will have block removed so only 1.2 meters of block remains on top of footing as detailed in the updated cross section drawing mark-up. The West wall (lean-to side) will have courses of block added to existing courses totaling to the 1.2 meters above the footing. See below picture for clarity.



This follows the structural report as it states - “The number of block units added to the existing lean- to block masonry foundation wall should be limited to the minimum number of blocks required to reach above the proposed grade – approximately 1.2 metres.”

“Based on the structural assessment completed by Patterson Engineering and in carrying out loading calculations for the existing footings for the original and lean-to portion, it is our professional opinion that the existing footings are adequate of carrying the new loadings, granted the number of block unit courses on top of the existing lean-to block masonry units is limited to 1.2 metres.”

Knee wall/Pony wall: There will be wood 2x6 constructed wall on top of the blocks totaling in height of 11 feet (3.3 meters) to bottom of truss. This is depicted on the updated cross sectional drawing and also follows what is stated in the structural report. The overall height of building will be 22 ft 1.25 in (6.74 metres), as originally applied for in the public meeting notice. **Structural report reads** – “The proposed 2x6 knee wall

height above the proposed block masonry units should be maximized (2.1 metres to 3.35 m) to reduce the additional wall loading”

To clarify the proposed grade: As seen in picture above the proposed grade line marked in red arrows is approximately 4 block units above footing. The applicant states that the barn is currently sitting in a hole. Over the years the grade has been brought up on the North, West, and East walls to match neighbouring properties but was not brought up nearly as much on the south side wall as it would eliminate accessing the current doors. The applicant states that **once this work is completed minor fill would be added on the south side wall existing grade to be brought up to proposed grade to match the existing grade on the other walls and neighboring properties.** The existing grade on sides of barn is already 4 courses of block high.