



February 19, 2025

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Reference: Engineering Services
29 E Main Street
Coats, NC 27521
TE&D Project No.: 2501-020115

To Whom It May Concern:

As requested, a representative of Tyndall Engineering & Design, PA (TE&D) was on-site to observe the following item(s):

- 1) Proposed opening of the party wall dividing the left and right sections of the library.

The following conclusions and recommendations were noted:

- 1) We understand the new opening is to be approximately 6'-6" wide in the CMU wall dividing the buildings. The right-side of the wall is an 8" CMU wall. The left side of the wall is a 4" CMU wall. Based on our observations and analysis, the new opening is to be framed as follows:
 - a. For the 8" CMU wall, install a minimum (4) 2 x 12 beam. The header is to be supported with (3) 2 x 8 jack studs and (1) 2 x 8 pressure-treated king stud at each end. A new 2 x 8 pressure-treated top plate is to be installed tightly between the new header and the existing 8" CMU wall.
 - b. For the 4" CMU wall, install a minimum (2) 1-3/4 x 7-1/4 LVL beam. The new header is to be supported with (3) 2 x 4 jack studs and (1) 2 x 8 pressure treated king stud. A new 2 x 4 pressure-treated top plate is to be installed tightly between the new header and the existing 4" CMU wall.

Stud columns are to be blocked solid to the foundation. See the attached Header Masonry Support on Page 3 of this report for clarification.

Upon completion of the above recommendations, the structure will provide the required support for the anticipated loading conditions. We appreciate being able to assist you during this phase of the project. If you need further assistance or require additional information, please do not hesitate to contact us.

Sincerely,
Tyndall Engineering & Design

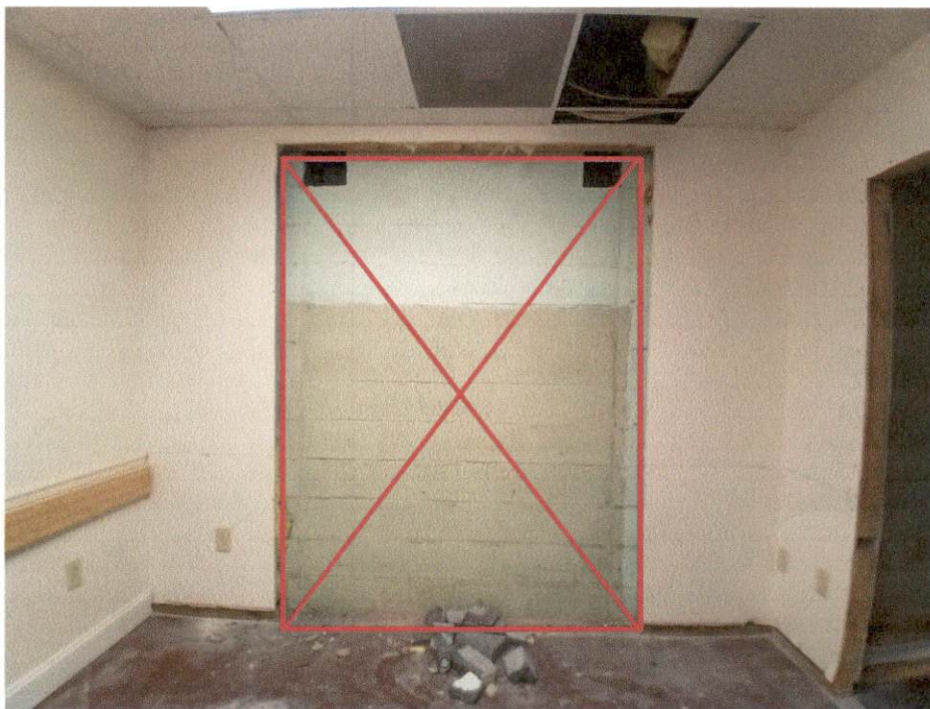
Tripp Amos
RS | 2501-020115

Prentice Tyndall Jr., P.E.

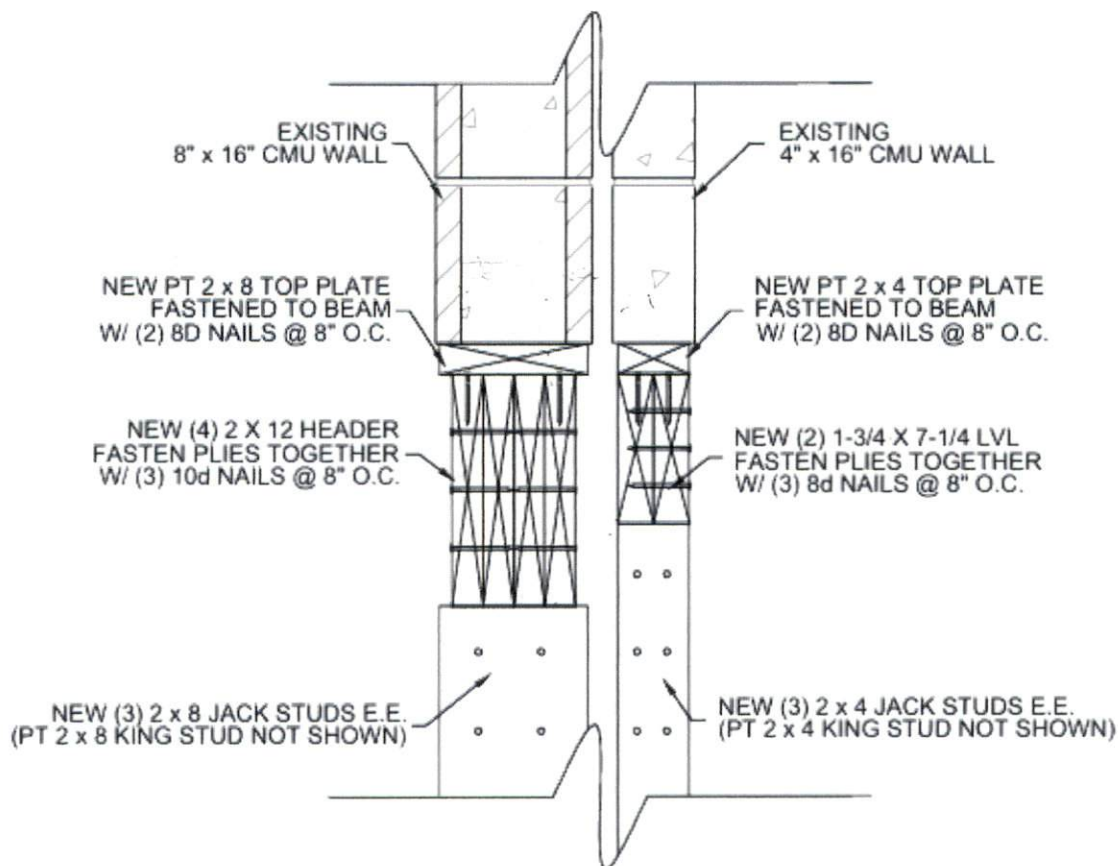




Front of Building



Wall to be Removed



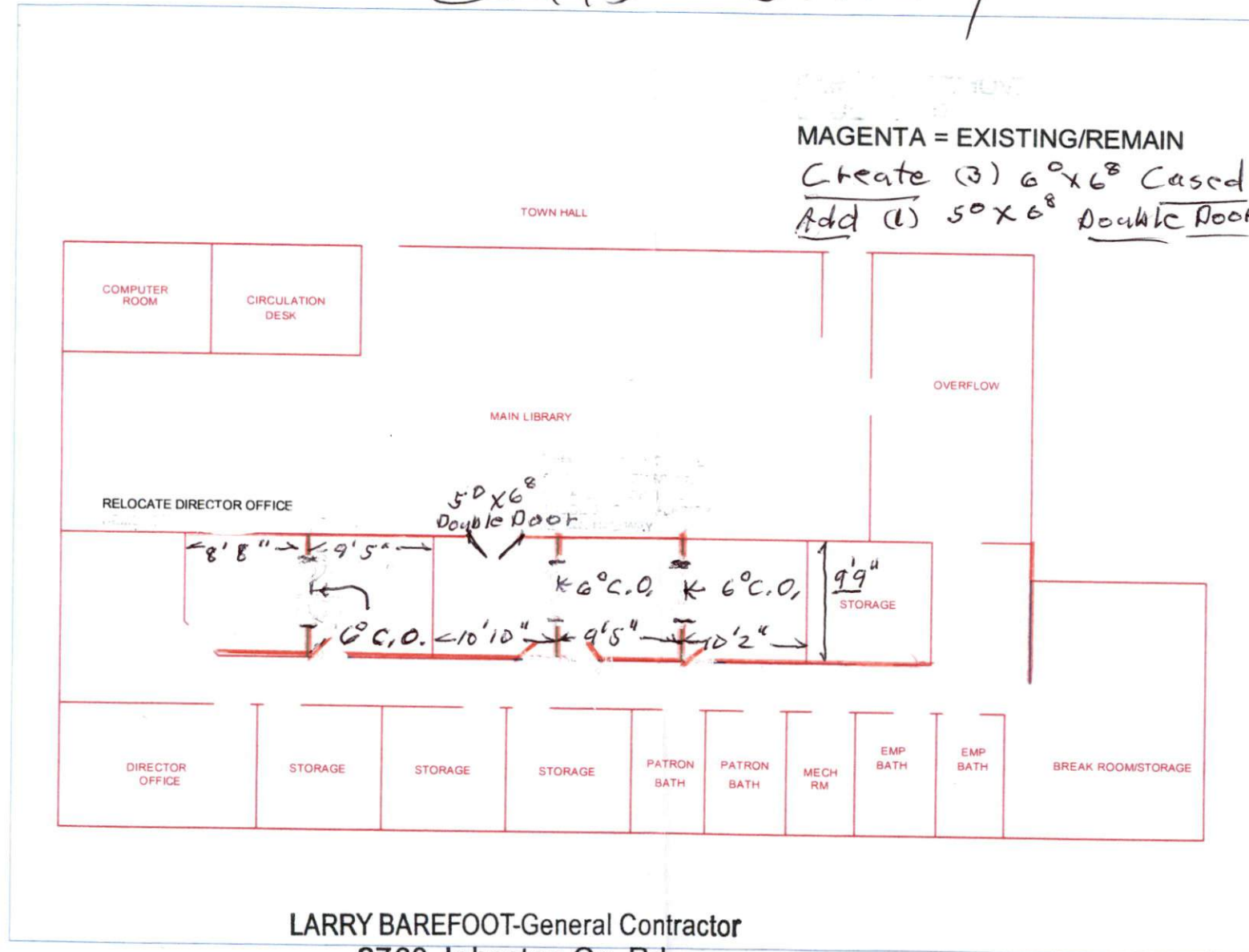
HEADER MASONRY SUPPORT

29 East Main St.
Coats, N.C. 27521

Coats Library

MAGENTA = EXISTING/REMAIN

Create (3) 6'0" x 6'8" Cased Openings
Add (1) 5'0" x 6'8" Double Door Unit



LARRY BAREFOOT-General Contractor

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Not to scale