

### GENERAL FOUNDATION NOTES:

- THIS PLAN DESIGNED IN ACCORDANCE WITH THE NORTH CAROLINA RESIDENTIAL BUILDING CODE, 2018 EDITION.
- EXTERIOR WALL FOOTING TO BE A MINIMUM OF 16" WIDE AND CONSTRUCTED WITH 3000 PSI CONCRETE. FOR FOUNDATION WALL HEIGHT, THICKNESS AND BACKFILL REQUIREMENTS REFER TO STATE AND LOCAL BUILDING CODES. THE ASSUMED SOIL BEARING CAPACITY FOR THIS PROJECT IS 2000 PSF. THE CONTRACTOR MUST VERIFY THE SITE CONDITIONS AND CONTACT A SOILS ENGINEER IF MARGINAL OR UNSTABLE SOILS ARE ENCOUNTERED.
- ALL FOOTINGS SHALL BEAR ON UNDISTURBED SUB-GRADE A MINIMUM OF 12" BELOW ADJACENT FINISHED GRADE OR AS OTHERWISE DIRECTED BY THE LOCAL INSPECTOR.

### GENERAL NOTES:

- THIS PLAN IS DESIGNED IN ACCORDANCE WITH THE NORTH CAROLINA RESIDENTIAL BUILDING CODE, 2018 EDITION.
- WALL CLADDING IS DESIGNED FOR A POSITIVE/NEGATIVE PRESSURE OF NOT LESS THAN 241 PSF.
- ROOF CLADDING DESIGN VALUES (POSITIVE/NEGATIVE) SHALL BE AS FOLLOWS:
  - 45.5 PSF FOR ROOF PITCHES FROM 0/12 TO 2/12
  - 34.5 PSF FOR ROOF PITCHES FROM 2/12 TO 1/12
  - 21.0 PSF FOR ROOF PITCHES FROM 1/12 TO 12/12
  - MEAN ROOF HEIGHT FOR THIS STRUCTURE IS 14'
- DESIGN CRITERIA IS AS FOLLOWS:
 

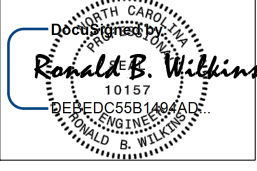
|                    | DEAD LOAD (PSF) | LIVE LOAD (PSF) |
|--------------------|-----------------|-----------------|
| PRIMARY FLOOR      | 10              | 40              |
| SECONDARY FLOOR    | 10              | 40              |
| SLEEPING AREAS     | 10              | 40              |
| ATTIC (W/ STAIRS)  | 10              | 30              |
| ATTIC (W/O STAIRS) | 10              | 20              |
| ROOF               | 10              | 20              |

WIND LOADING IS BASED ON 3 SECOND GUST OF 130 MILES PER HOUR  
LIVE LOAD DEFLECTION LIMITS (LIVE LOAD) ARE L/360 FOR FLOORS, L/240 FOR ROOF  
6. ALL HEADERS IN LOAD BEARING WALL SHALL BE 2-2" x 10" UNLESS NOTED OTHERWISE. FULL HEIGHT KING STUDS SHALL BE INSTALLED FROM EACH SIDE OF EXTERIOR WALL HEADERS AND BEAMS AS FOLLOWS:

| HEADER SPAN | STUDS @ 16" O.C. | STUDS @ 24" O.C. |
|-------------|------------------|------------------|
| 3'-0"       | 1                | 1                |
| 4'-0"       | 2                | 1                |
| 8'-0"       | 3                | 2                |
| 12'-0"      | 5                | 3                |
| 16'-0"      | 6                | 4                |
- ALL LUMBER USED FOR JOISTS AND RAFTERS SHALL BE #2 SPF OR BETTER LUMBER USED FOR STUD WALL SHALL BE #3 SPF OR BETTER.
- LVL SHALL BE LAMINATED VENEER LUMBER OR PARALLEL STRAND LUMBER WITH THE FOLLOWING MINIMUM PROPERTIES: Fb=2800 PSI, Fv=285 PSI, E=2000000 PSI. MULTIPLE LVL PLIES CAN BE USED TO ACHIEVE THE SPECIFIED SIZE SHOWN ON THESE PLANS AND IS CONSIDERED TO BE STRUCTURALLY EQUIVALENT.

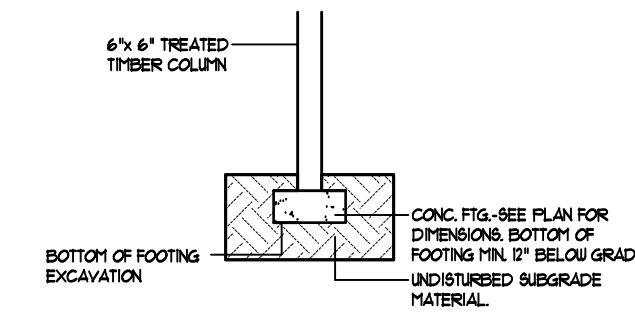
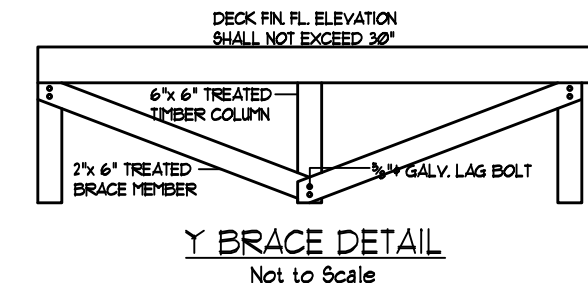
### STRUCTURAL EVALUATION BY:

WILKINS ENGINEERING, P.C.  
Post Office Box 31449  
Raleigh, North Carolina 27621

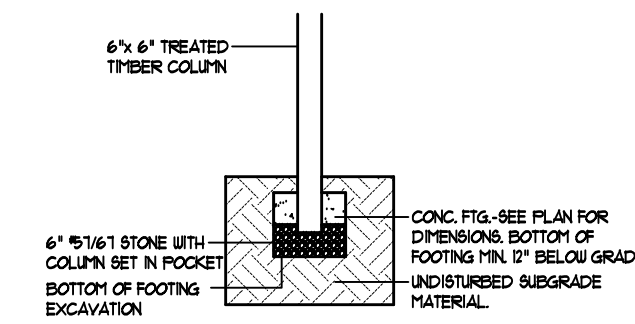


FILE: WYNDHAM  
3/14/2023

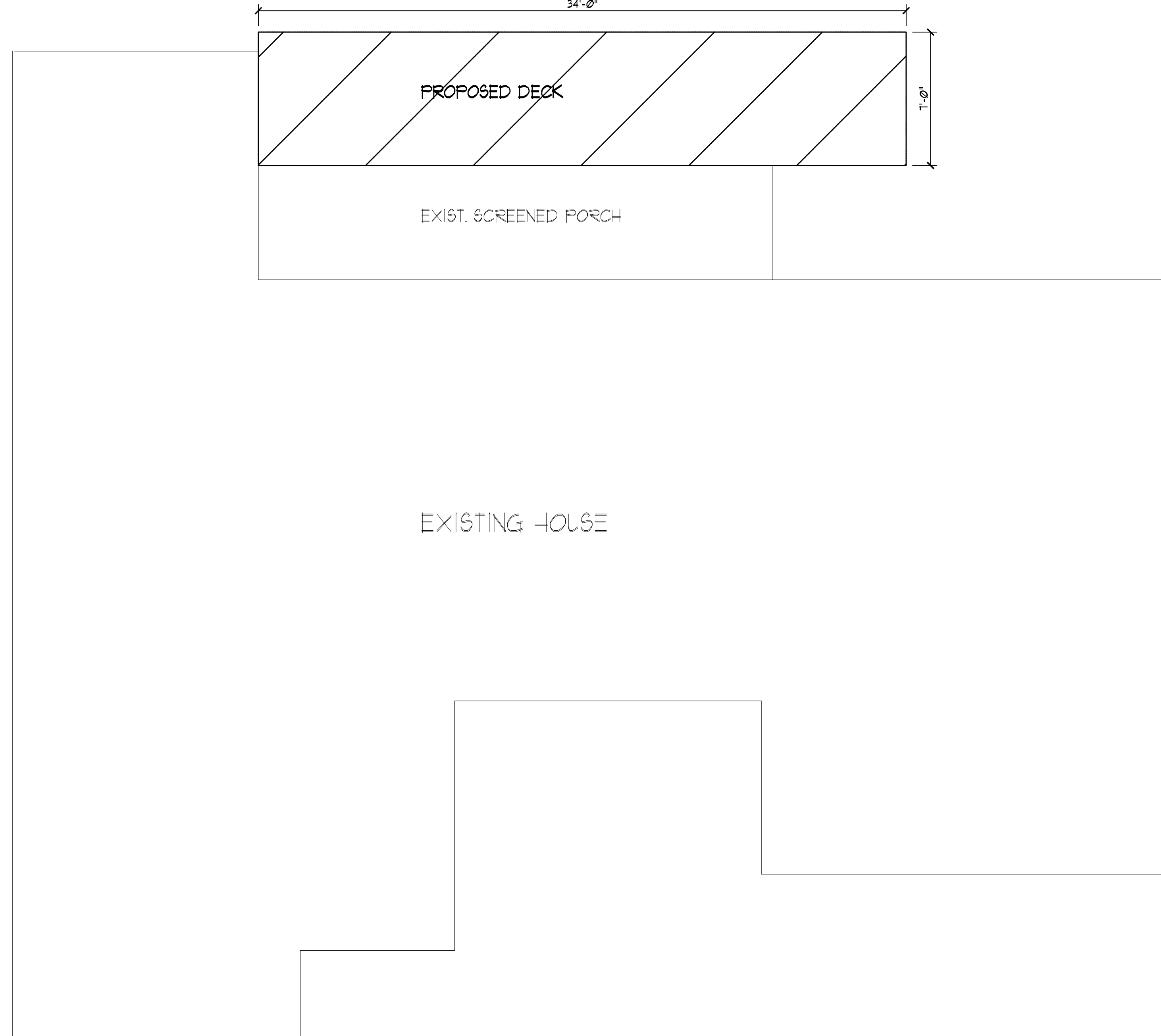
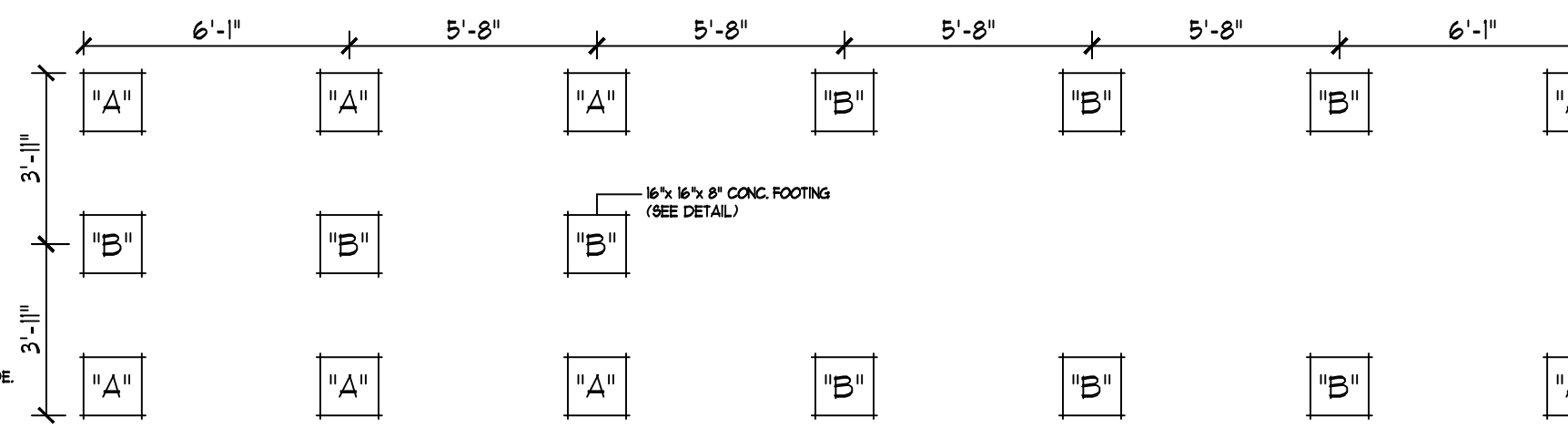
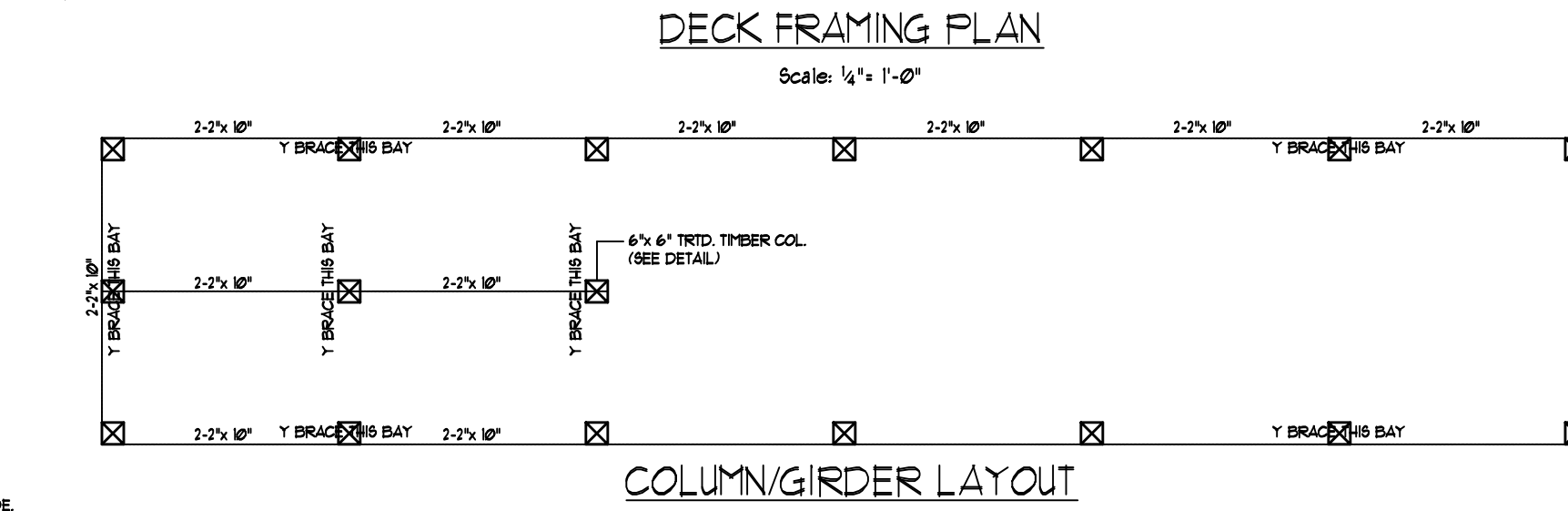
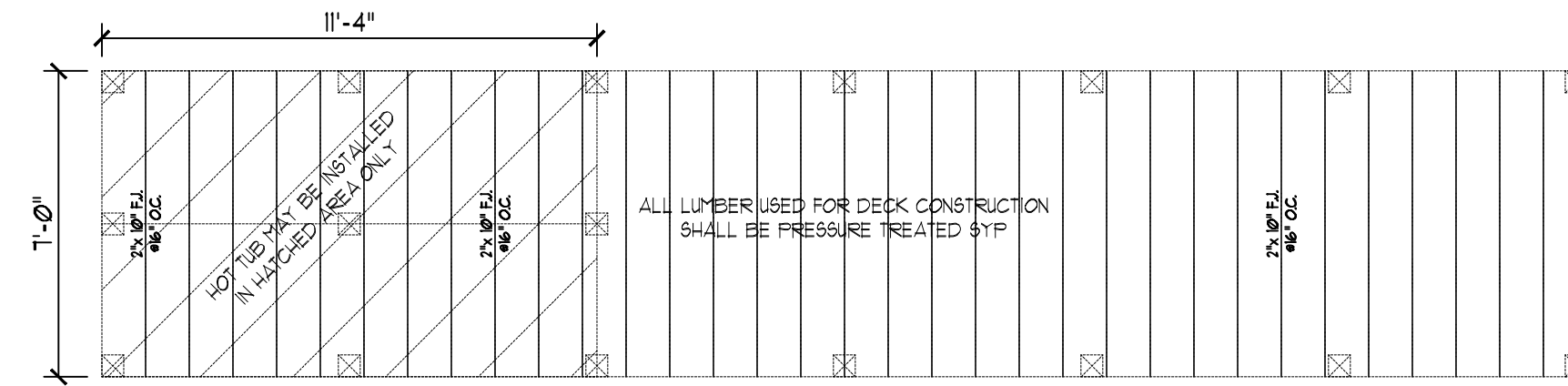
- \*THE ENGINEER'S SEAL AND SIGNATURE APPLY ONLY TO THE STRUCTURAL ELEMENTS OF THIS DOCUMENT. ENGINEER'S APPROVAL DOES NOT INCLUDE CONSTRUCTION REVIEW, MEANS, METHODS, TECHNIQUES OR SEQUENCES OF CONSTRUCTION OR SAFETY REQUIREMENTS. THE CONTRACTOR IS REQUIRED TO ENSURE PROPER SAFETY PRECAUTIONS.
- \*ANY DEVIATIONS OR DISCREPANCIES IN THESE DRAWINGS ARE TO BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER AND FAILURE TO DO SO WILL VOID THE ENGINEER'S LIABILITY. CHANGES TO THE DESIGN ARE ONLY ALLOWED WITH THE WRITTEN APPROVAL OF THE ENGINEER.
- \*DO NOT SCALE THESE DRAWINGS. ENGINEERING APPROVAL EXPIRES IN ONE YEAR.



"B" COLUMN/FOOTING DETAIL  
Not to Scale



"A" COLUMN/FOOTING DETAIL  
Not to Scale



COPYRIGHT 2020 WILKINS ENGINEERING, P.C.  
 THESE DRAWINGS ARE THE ORIGINAL WORK OF THE ENGINEER AND ARE NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT THE WRITTEN CONSENT OF THE ENGINEER. ANY DISCREPANCIES OR OMISSIONS NOTED BY THE BUILDER AGREES TO NOTIFY THE ENGINEER IMMEDIATELY. THESE DRAWINGS ARE TO BE USED FOR CONSTRUCTION ONLY. THE ENGINEER'S LIABILITY IS LIMITED TO THE SCOPE OF THE CONTRACT AND THE ENGINEER'S PROFESSIONAL LIABILITY INSURANCE COVERAGE. THE ENGINEER'S LIABILITY IS LIMITED TO THE SCOPE OF THE CONTRACT AND THE ENGINEER'S PROFESSIONAL LIABILITY INSURANCE COVERAGE.

WILKINS ENGINEERING  
 Post Office Box 31449  
 Raleigh, NC 27621  
 wilkinsengr@aol.com  
 919.777.2840

DECK ADD.  
 310 WYNDHAM PL.  
 FUGUAY VARINA, NC  
 Sheet 2 of 2