

Foundation Plan

Span Table for Joist and Rafters.

-Floors shall be constructed in accordance with the provisions of Chapter 5 of the NC State Building Code, Sect. R502.2 and Sects R319 and R320.

-Spans for floor joist shall be in accordance with Tables R502.3.1(1) and R502.3.1(2). For other grades and species and for other loading conditions, refer to the AF\$PA

-The allowable span of girders fabricated of dimension lumber shall not exceed the values set forth in Tables R502.5(1) and R502.5(2).

-Local soil conditions and/or local practice may necessitate a more stringent footing and foundation wall design. Consult with local building inspector. Soil design bearing pressure is assumed 2000 psf.

Carry all footings to firm undisturbed bearing:

-24" x 10" footing for 8" foundation wall.

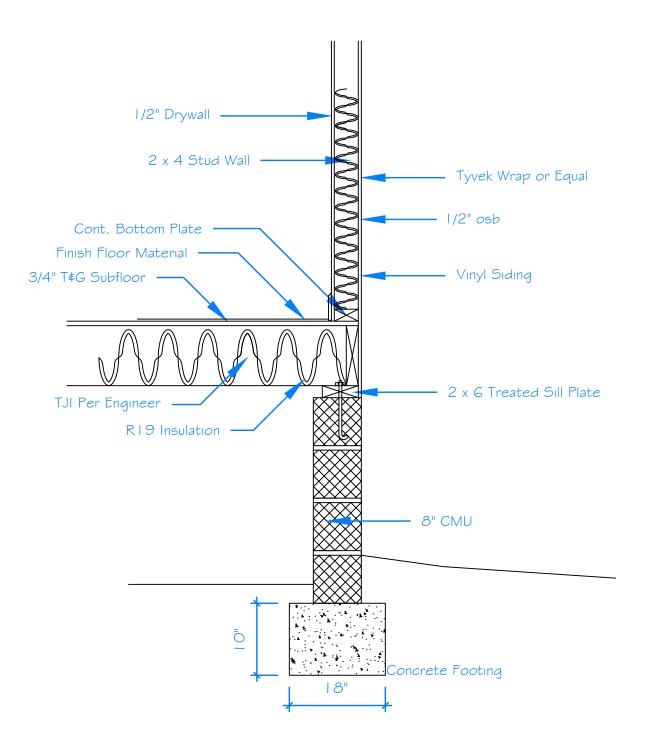
-24" x 10" footing for 12" foundation wall.

Pier Footings (Typical Unless Otherwise Notes)

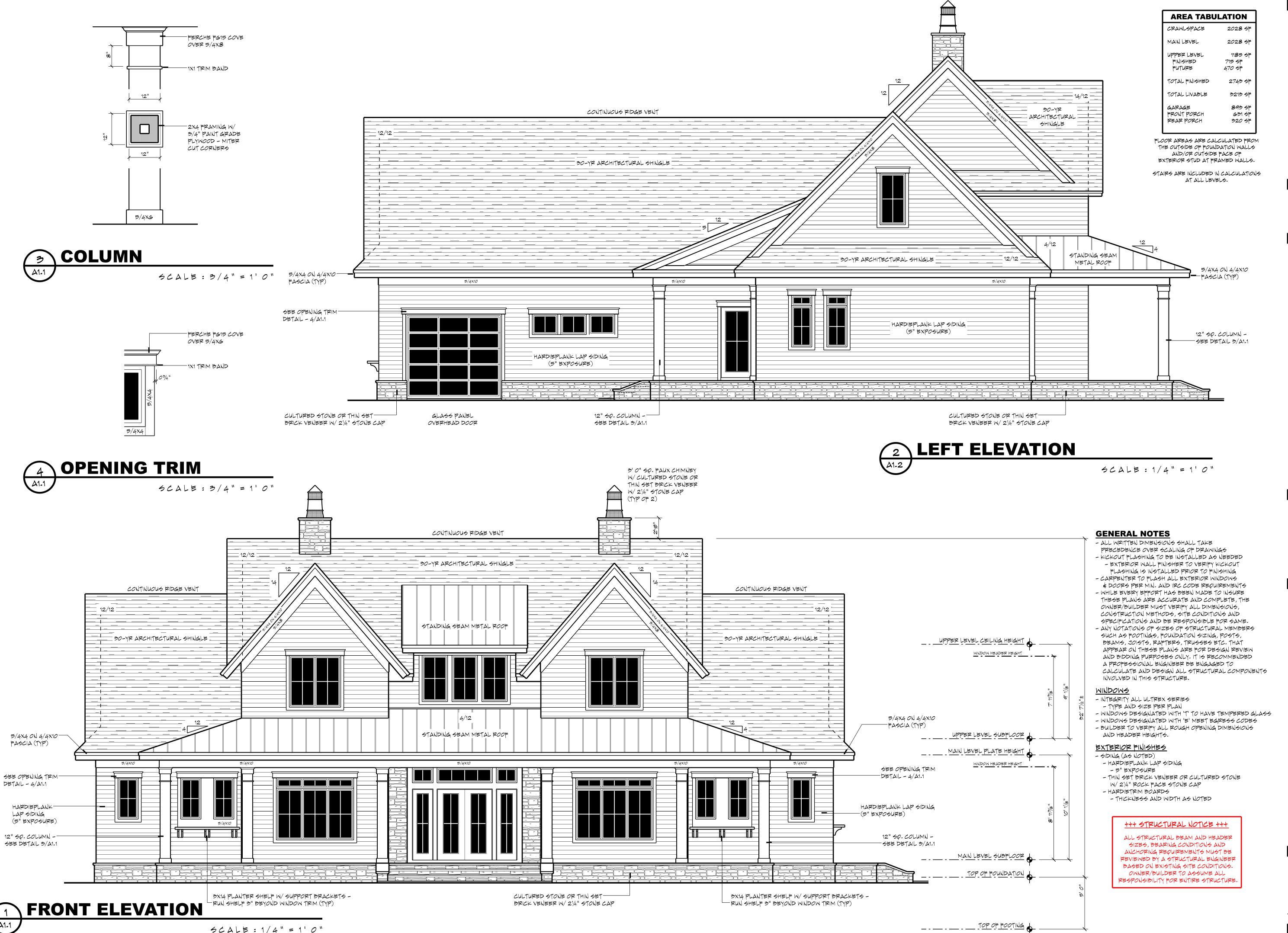
-Provide 1'-8" x 2'-4" x 1'-0" deep concrete footing under 8" x 16" masonry piers.

-Provide 2'-0" square x 1'-0" deep concrete footing with under 16" square masonry piers.

-Grout piers solid with 2500psi concrete (typ).



Foundation Section



ROYALOAKS

3459 Lake Elmo Ave Lake Elmo, MN 651-964-2726

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CL-19-004 CRAWLSPACE REVERSE 2x4

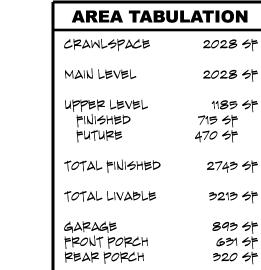
1 12/27/19 2X4 EXTERIOR -DML

EXTERIOR ELEVATIONS COLUMN DETAIL OPENING TRIM DETAIL

₁ A1.1

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FLOOR AREAS ARE CALCULATED FROM THE OUTSIDE OF FOUNDATION WALLS and/or outside face of EXTERIOR STUD AT FRAMED WALLS.

STAIRS ARE INCLUDED IN CALCULATIONS at all levels.

GENERAL NOTES

- ALL WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALING OF DRAWINGS - KICKOUT FLASHING TO BE INSTALLED AS NEEDED - EXTERIOR WALL FINISHER TO VERIFY KICKOUT FLASHING IS INSTALLED PRIOR TO FINISHING - CARPENTER TO FLASH ALL EXTERIOR WINDOWS & DOORS PER MIN. AND IRC CODE REQUIREMENTS - WHILE EVERY EFFORT HAS BEEN MADE TO INSURE THESE PLANS ARE ACCUPATE AND COMPLETE, THE OWNER/BUILDER MUST VERIFY ALL DIMENSIONS, CONSTRUCTION METHODS, SITE CONDITIONS AND SPECIFICATIONS AND BE RESPONSIBLE FOR SAME. - ANY NOTATIONS OF SIZES OF STRUCTURAL MEMBERS SUCH AS FOOTINGS, FOUNDATION SIZING, POSTS, BEAMS, JOISTS, RAFTERS, TRUSSES ETC. THAT APPEAR ON THESE PLANS ARE FOR DESIGN REVIEW AND BIDDING PURPOSES ONLY. IT IS RECOMMENDED A PROFESSIONAL ENGINEER BE ENGAGED TO CALCULATE AND DESIGN ALL STRUCTURAL COMPONENTS INVOLVED IN THIS STRUCTURE.

MINDOMS

- INTEGRITY ALL ULTREX SERIES - TYPE AND SIZE PER PLAN
- WINDOWS DESIGNATED WITH 'T' TO HAVE TEMPERED GLASS - WINDOWS DESIGNATED WITH 'E' MEET EGRESS CODES - BUILDER TO VERIFY ALL ROUGH OPENING DIMENSIONS and header heights.

EXTEPIOR FINISHES

- SIDING (AS NOTED) - HARDIEPLANK LAP SIDING
- 5" EXPOSURE
- THIN SET BRICK VENEER OR CULTURED STONE W/ 21/4" POCK FACE STONE CAP
- HARDIETRIM BOARDS
- THICKNESS AND WIDTH AS NOTED

TRUSS SUPPLIER TO VERIFY ALL SPANS, PITCHES, HEEL HEIGHTS AND OTHER CONDITIONS CRITICAL TO PROPER TRUSS FABRICATION.

ANY STRUCTURAL COMPONENTS THAT MAY NOTED ON THESE PLANS ARE INTENDED FOR DESIGN/BID PURPOSES ONLY. IT IS PECOMMENDED THAT ALL STRUCTURAL DESIGN ELEMENTS BE REVIEWED BY A LOCAL LICENSED PROFESSIONAL STRUCTURAL ENGINEER. FINAL POOF AND FLOOR TRUSS DESIGN AND LAYOUT TO BE PROVIDED BY YOUR LOCAL TRUSS SUPPLIER.

+++ STRUCTURAL NOTICE +++

ALL STRUCTURAL BEAM AND HEADER SIZES, BEAPING CONDITIONS AND ANCHOPING PEQUIPEMENTS MUST BE PEVIEWED BY A STRUCTURAL ENGINEER BASED ON EXISTING SITE CONDITIONS. OWNER/BUILDER TO ASSUME ALL RESPONSIBILITY FOR ENTIRE STRUCTURE

++ FOUNDATION ENGINEERING ++

ALL BUILDING FOUNDATION, FOOTING SIZES AND reinforcing, including POST FOOTINGS, TO BE DESIGNED ON SITE BY LOCAL ENGINEER OR FOUNDATION CONTRACTOR BASED ON EXISTING SITE CONDITIONS.

+ footing frost depth: ++

OWNER/CONTRACTOR TO ADJUST DEPTH OF ALL HOUSE, GARAGE, SLAB and deck post footings TO MEET LOCAL CODES.

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EXTERIOR ELEVATIONS

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12" 50. COLUMN --

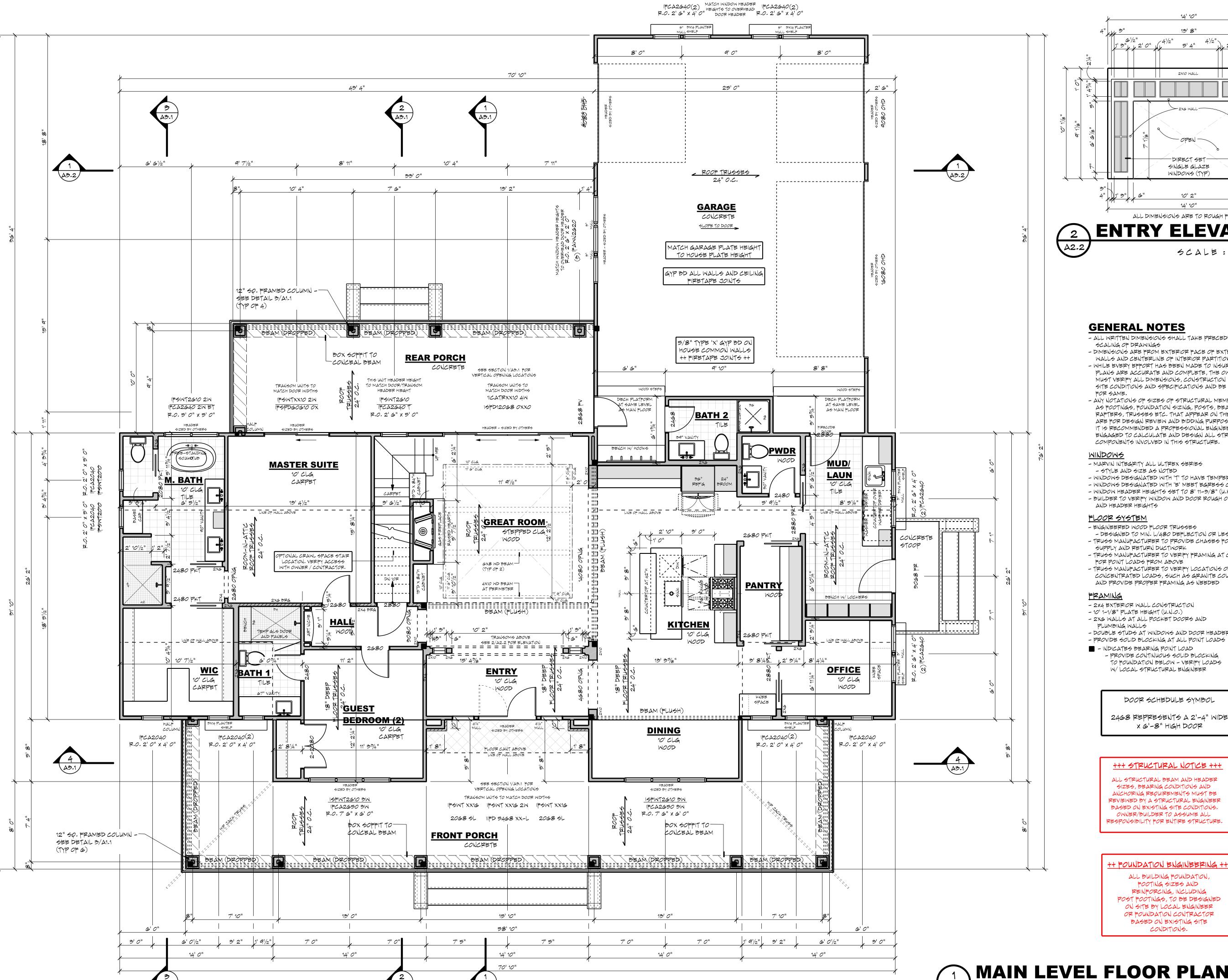
SEE DETAIL 3/A1.1

CULTURED STONE OR THIN SET

BRICK VENEER W/ 21/4" STONE CAP

3X14 PLANTER SHELF W/ SUPPORT BRACKETS --

PUN SHELF 3" BEYOND WINDOW TRIM (TYP)



2X10 WALL -DIRECT SET SINGLE GLAZE WINDOWS (TYP) 14' 10"

ALL DIMENSIONS ARE TO ROUGH FRAME **ENTRY ELEVATION** 5CALE: 1/4" = 1'0"

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GENERAL NOTES

- ALL WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER
- SCALING OF DRAWINGS - DIMENSIONS ARE FROM EXTERIOR FACE OF EXTERIOR STUD
- WALLS AND CENTERLINE OF INTERIOR PARTITIONS - WHILE EVERY EFFORT HAS BEEN MADE TO INSURE THESE PLANS ARE ACCURATE AND COMPLETE, THE OWNER/BUILDER
- MUST VERIFY ALL DIMENSIONS, CONSTRUCTION METHODS, SITE CONDITIONS AND SPECIFICATIONS AND BE RESPONSIBLE FOR SAME. - ANY NOTATIONS OF SIZES OF STRUCTURAL MEMBERS SUCH
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MINDOMS

- MARVIN INTEGRITY ALL ULTREX SERIES
- STYLE AND SIZE AS NOTED
- WINDOWS DESIGNATED WITH 'T' TO HAVE TEMPERED GLASS - WINDOWS DESIGNATED WITH 'E' MEET EGRESS CODES
- WINDOW HEADER HEIGHTS SET TO 8' 11-3/8" (U.N.O.)
- BUILDER TO VERIFY WINDOW AND DOOR ROUGH OPENINGS and header heights

FLOOP SYSTEM

- ENGINEERED WOOD FLOOR TRUSSES
- DESIGNED TO MIN. L/480 DEFLECTION OF LESS - TRUSS MANUFACTURER TO PROVIDE CHASES FOR ALL
- SUPPLY AND RETURN DUCTWORK - TRUSS MANUFACTURER TO VERIFY FRAMING AT CANTILEVERS
- FOR POINT LOADS FROM ABOVE - TRUSS MANUFACTURER TO VERIFY LOCATIONS OF ANY CONCENTRATED LOADS, SUCH AS GRANITE COUNTERTOPS, AND PROVIDE PROPER FRAMING AS NEEDED

<u>framing</u>

- 2x4 EXTERIOR WALL CONSTRUCTION
- 2XG WALLS AT ALL POCKET DOORS AND PLUMBING WALLS
- DOUBLE STUDS AT WINDOWS AND DOOR HEADERS
- PROVIDE SOLID BLOCKING AT ALL POINT LOADS
- INDICATES BEARING POINT LOAD - PROVIDE CONTINUOUS SOLID BLOCKING TO FOUNDATION BELOW - VERIFY LOADS

DOOR SCHEDULE SYMBOL

2468 REPRESENTS A 2'-4" WIDE X 6'-8" HIGH DOOP

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ALL BUILDING FOUNDATION, FOOTING SIZES AND reinforcing, including POST FOOTINGS, TO BE DESIGNED ON SITE BY LOCAL ENGINEER

OF FOUNDATION CONTRACTOR BASED ON EXISTING SITE

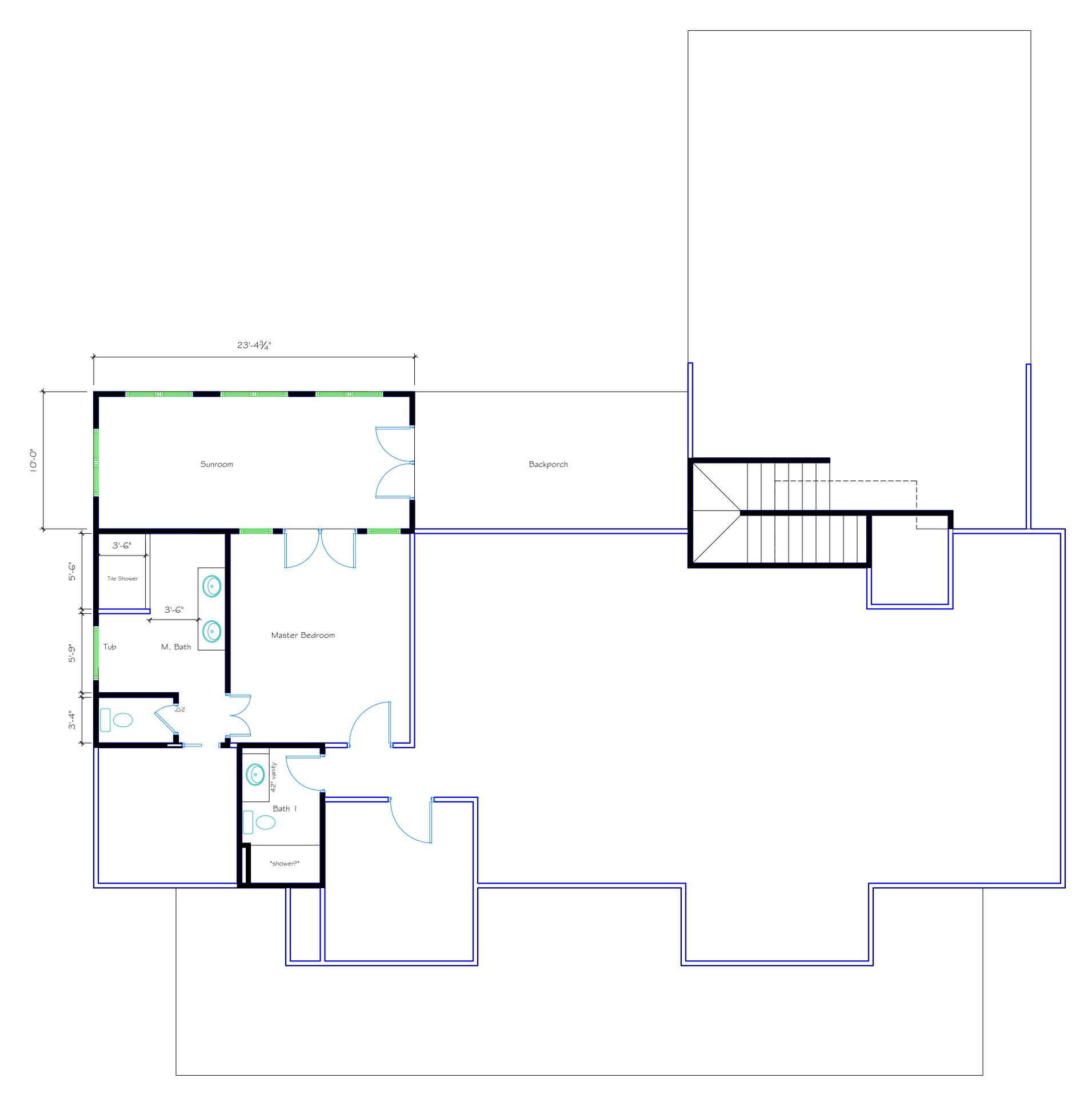
CONDITIONS.

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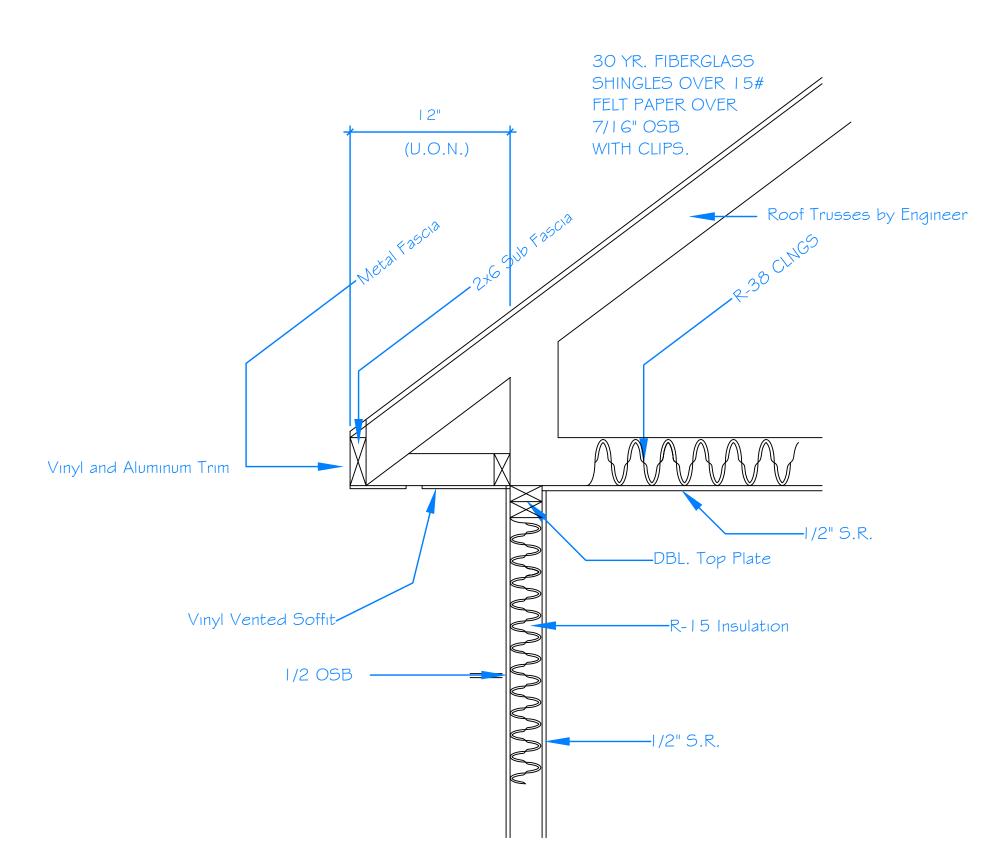
MAIN LEVEL FLOOR PLAN

MAIN LEVEL FLOOR PLAN 5CALE: 1/4" = 1'0"

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Main Level Changes



Roof Section

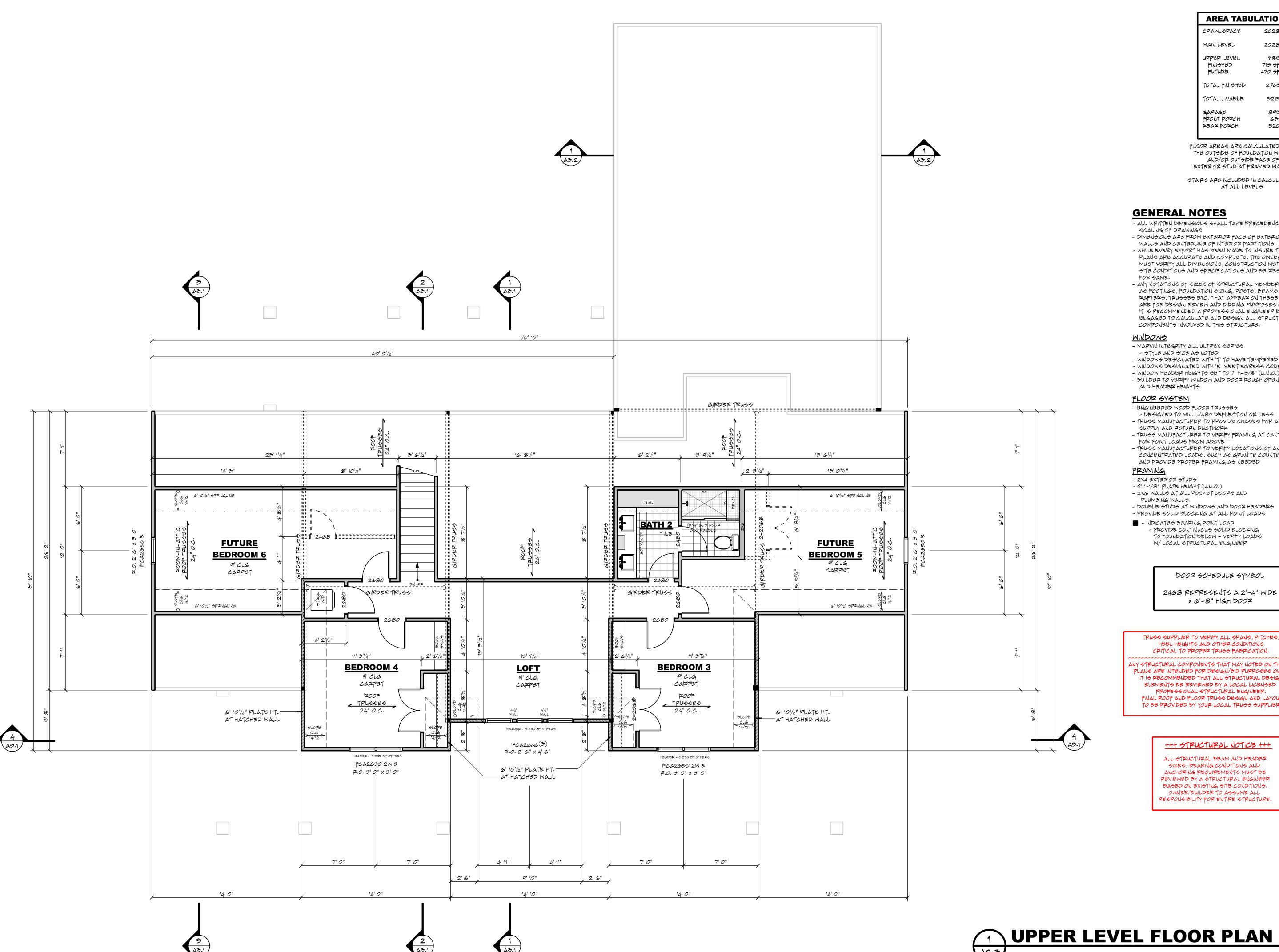
-Truss design drawings, prepared in conformance with section R802.10.1, shall

we provided to the building official and approved prior to installation.
-Wood trusses shall be designed in accordance with accepted engineering practice. The truss design drawings shall be prepared by a registered professional where

required by the statutes of the jurisdiction in which the project is to be constructed in accordance with Section RIOG.I.

-Trusses shall be braced to prevent rotation and provide lateral stability in accordance with the requirements specified in the construction documents for the building and on the ındıvıdual truss design drawıng.

-Truss members shall not be cut, notched, drilled, spliced or otherwise altered in any way without the approval of a registered design professional.



AREA TABULATION CRAWLSPACE 2028 54 MAIN LEVEL 2028 5 upper level 1185 54 FINISHED 715 54 FUTURE 470 54 TOTAL FINISHED 2743 54 TOTAL LIVABLE 321354 Garage FRONT PORCH 6315 PEAR PORCH 320 5

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<u>windows</u>

- MARVIN INTEGRITY ALL ULTREX SERIES
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- CONCENTRATED LOADS, SUCH AS GRANITE COUNTERTOPS, AND PROVIDE PROPER FRAMING AS NEEDED

FRAMING

- 2X4 EXTERIOR STUDS - 9' 1-1/8" PLATE HEIGHT (U.N.O.)
- 2XG WALLS AT ALL POCKET DOORS AND PLUMBING WALLS.
- DOUBLE STUDS AT WINDOWS AND DOOR HEADERS

W/LOCAL STRUCTURAL ENGINEER

- PROVIDE SOLID BLOCKING AT ALL POINT LOADS
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DOOR SCHEDULE SYMBOL

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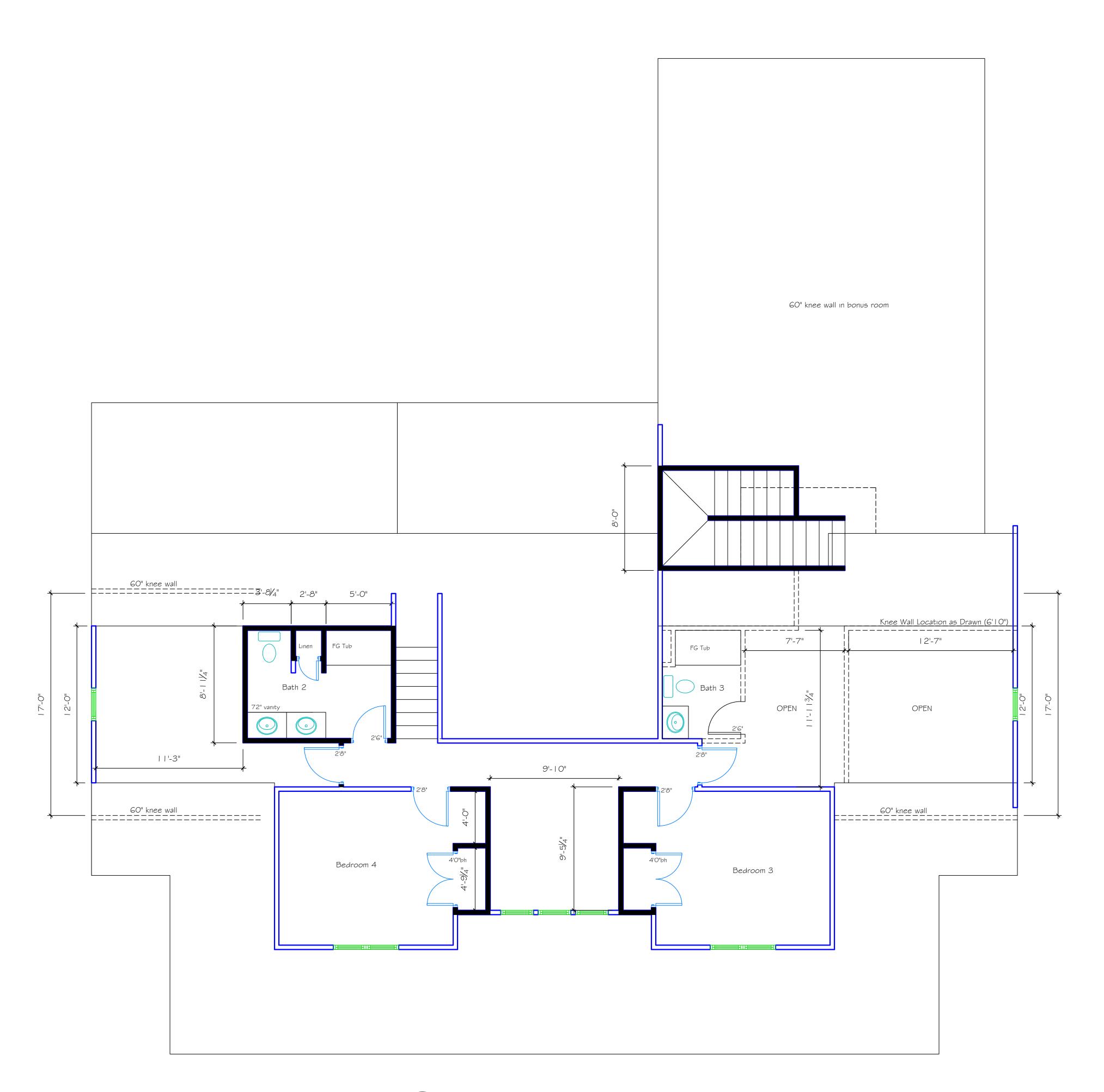
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UPPER LEVEL FLOOR PLAN

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SCALE: 1/4" = 1'0"



Upper Level Changes