

ABBREVIATIONS

⊙	AT	LAB.	LABORATORY
A.B.	ANCHOR BOLT	LAM.	LAMINATE
ACCUST.	ACOUSTICAL	LAV.	LAVATORY
A.C.T.	ACOUSTICAL CEILING TILE	LT. WT.	LIGHT WEIGHT
ACM	ACOUSTICAL MYLAR	MACH.	MACHINE
ADJ.	ADJUSTABLE	MANUF.	MANUFACTURER
A.F.F.	ABOVE FINISHED FLOOR	MATL.	MATERIAL
A.F.G.	ABOVE FINISHED GRADE	MAX.	MAXIMUM
AGG.	AGGREGATE	MECH.	MECHANICAL
ALUM. or AL	ALUMINUM	M.E.S.	METAL EDGE STRIP
ANCH.	ANCHOR	MET.	METAL
APPROX.	APPROXIMATELY	M.H.	MAN HOLE
ASB.	ASBESTOS	MIL.	MIL
ATTEN.	ATTENUATION	MIN.	MINIMUM
BD.	BOARD	MISC.	MISCELLANEOUS
B.J.B.	BAR JOIST BEARING	MLD.	MOLDING
BLDG.	BUILDING	M.O.	MASONRY OPENING
BLK.	BLOCK	M.R.	MOISTURE RESISTANT
BM.	BEAM	MTL.	METAL
BRG. PL.	BEARING PLATE	NEC'Y	NECESSARY
BRK.	BRICK	NOT IN CONTRACT	
BRZ.	BRONZE	N.I.C.	NOT TO SCALE
BOT.	BOTTOM	N.T.S.	NOT TO SCALE
CAB.	CABINET	O.C.	OIL CENTER
C.B.	CATCH BASIN or CHALK BOARD	O.D.	OUTSIDE DIAMETER
C.E.M.	CEMENT	O/O	OUT TO OUT
CER.	CERAMIC	OPG.	OPENING
C.G.	CORNER GUARD	O.H.	OVERHEAD
C.J.	CONTROL JOINT	OPP.	OPPOSITE
CK.	CAULK	P	PAINT(ED)
CL. or ☉	CENTERLINE	PARTN.	PARTITION
C.L.	CEILING	P.B.	PARTICLE BOARD
C.M.U.	CONCRETE MASONRY UNIT	P.C.T.	PORCELAIN TILE
C.O.	CLEAN OUT	PL	PLATE
COL.	COLUMN	PLM	PLASTIC LAMINATE
CONC.	CONCRETE	PLAS.	PLASTIC
CONC. BLK.	CONCRETE BLOCK	PLWD. or PWD.	PLYWOOD
CONST.	CONSTRUCTION	PNL.	PANELING
CONT.	CONTINUOUS	POLY.	POLYETHENE
CORR.	CORRIDOR	PORC.	PORCELAIN
CPT.	CARPET	P.T.	PAINT
C.R.	COLD ROLLED	PVMT.	PAVEMENT
C.T.	CERAMIC TILE	Q.T.	QUARRY TILE
DBL.	DOUBLE	R	RISERS
DET. or DTL.	DETAIL	R & S	ROD & SHELF
D.F.	DRINKING FOUNTAIN	RAD.	RADIUS
DIA. or ⌀	DIAMETER	R.B.	RUBBER BASE
DIAG.	DIAGONAL	R.C.P.	REINFORCED CONCRETE PIPE
DIM.	DIMENSION	R.D.	ROOF DRAIN
DISP.	DISPENSER	RE	REFERENCE
DTL.	DETAIL	REC.	RECESSED
DN.	DOWN	REF.	REFRIGERATOR
D.O.	DOWN COVER	REINF.	REINFORCED
D.S.	DOWN SPOUT	REQ'D	REQUIRED
DWG.	DRAWING	RES.	RESISTANT
E	EPOXY	RESIL.	RESILIENT
E.D.F.	ELECTRIC DRINKING FOUNTAIN	RET.	RETAINING
E.I.F.S.	EXTERIOR INSULATION & FINISH SYSTEM	RM.	ROOM
E.J.	EXPANSION JOINT	R.O.	ROUGH OPENING
E.W.C.	ELECTRIC WATER COOLER	SB.	SPLASH BACK
EA.	EACH	SC.	SOLID CORE
EL or ELEV.	ELEVATION	SCHED.	SCHEDULE
ELECT.	ELECTRIC(AL)	SCW.	SOLID CORE WOOD
ENAM.	ENAMEL	SECT.	SECTION
E.O.S.	EDGE OF SLAB	SHT.	SHEET
E.P.T.	EPOXY PAINT	SIM.	SIMILAR
EQ.	EQUAL	SLR.	SEALER
EQUIP.	EQUIPMENT	SPEC.	SPECIFICATIONS
E.W.	EACH WAY	SQ.	SQUARE
EXIST.	EXISTING	S.S.	STAINLESS STEEL or STORM SEWER
EXP.	EXPOSED	ST	STANDARD
EXP. JT. or E.J.	EXPANSION JOINT	STD.	STEEL
EXT.	EXTERIOR	STN.	STONE
EXT. GDE.	EXTERIOR GRADE	STRUC.	STRUCTURE
F.B.O.	FURNISHED BY OTHERS	STUC.	STUCCO
F/C or F.C.U.	FAN COIL UNIT	SUSP.	SUSPENDED
F.D.	FLOOR DRAIN	S.V.	SHEET VINYL
F.E.C.	FIRE EXTINGUISHER CABINET	SYM.	SYMMETRICAL
F.H.	FLAT HEAD	SYN.	SYNTHETIC
FND.	FOUNDATION	T	TREAD
FIN.	FINISH	T. & B.	TOP AND BOTTOM
FLR.	FLOOR	T. & G.	TONGUE AND GROOVE
FLUOR.	FLUORESCENT	TB	TACKBOARD
F.O.S.	FACE OF STUD	TC	TEACHER CABINET
FRM.	FRAME	TEL.	TELEPHONE
FT.	FOOT	TF	TOP OF FOOTING
FTG.	FOOTING	THK	THICK(NESS)
G.I.	GALVANIZED IRON	THR	THRESHOLD
GA.	GAUZE	THRU.	THROUGH
GALV.	GALVANIZED	T.O.C.	TOP OF CONCRETE
G.B.	GRAB BAR	T.TILE	TERRAZZO TILE
GEN.	GENERAL	TYP.	TEXTURED PAINT
GL.	GLASS	TYP.	TYPICAL
GLS. BLK.	GLASS BLOCK	TZ.	TERRAZZO
GRT.	GROUT	U.L.	UNDER WRITERS LABORATORIES
GYP.	GYPSPUM	UNF.	UNFINISHED
GYP. BD. or GPBD	GYPSPUM BOARD	U.O.N.	UNLESS OTHERWISE NOTED
H.B.	HOSE BIBB	UR.	URINAL
HBD.	HARDBOARD	V.C.B.	VINYL COVERED GYP. BOARD
H.C.	HANDICAPPED	V.C.P.	VITRIFIED CLAY PIPE
H.C.W.	HOLLOW CORE WOOD	V.C.T.	VINYL COMPOSITION TILE
HDW.	HARDWARE	VERT.	VERTICAL
H.M.	HOLLOW METAL	VIN.	VINYL
H.R.	HANDRAIL	VWC.	VINYL WALL COVERING
HR.	HOUR	W	WAX
HD.	HEAD	W/	WITH
HDWD. or HWD.	HARDWOOD	WATER-RES.	WATER-RESISTANT
HORIZ.	HORIZONTAL	WC	WATER CLOSET
HT.	HEIGHT	WD.	WOOD
INCL.	INCLUDING	WF.	WIDE FLANG
I.D.	INSIDE DIAMETER	WIN.	WINDOW
IN.	INCH	W.P.	WATERPROOF
INSUL.	INSULATION	W.R.G.B.	WATER-RESISTANT GYPBRD
INT.	INTERIOR	WSCT.	WAINSCOT
INV.	INVERT	W.W.F./W.W.M.	WELDED WIRE FABRIC/MESH
J.B.	JUNCTION BOX	W.W.M.	WELDED WIRE MESH
J.T.	JOINT		
KIT.	KITCHEN		

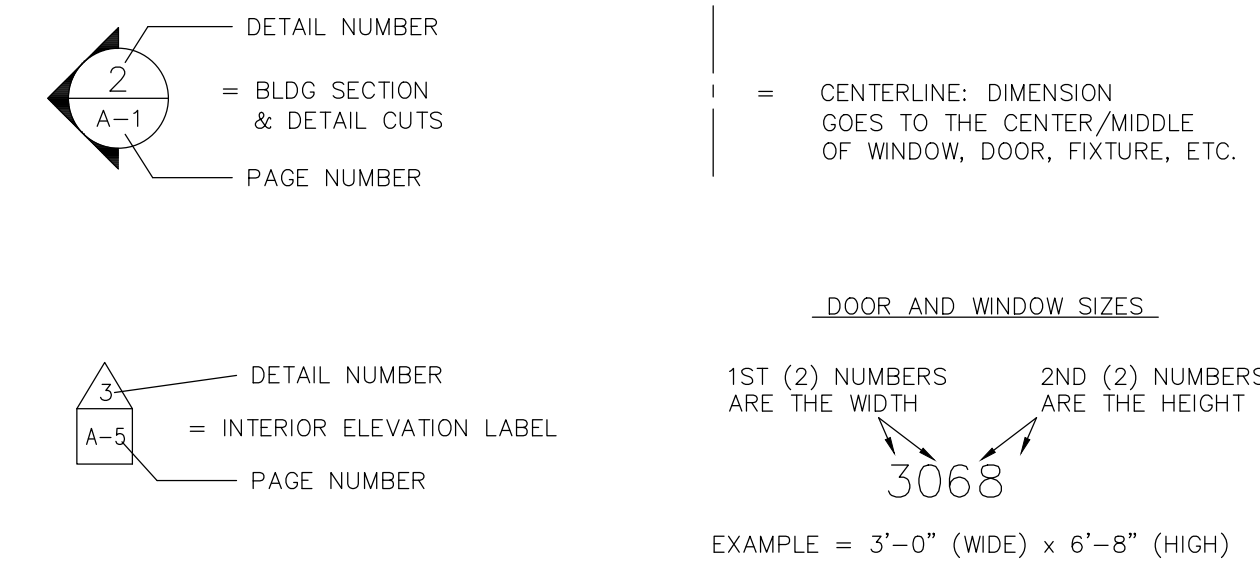


A CUSTOM HOME DRAWN FOR:  
**VAISHNAVI KRISHNAN**  
 50 TALBERT ROAD, RALEIGH, NC  
 JOB# 21-001

INDEX TO DRAWING

1. COVER SHEET / GENERAL NOTES
2. WINDOW & DOOR SCHEDULE
3. FIRST FLOOR INFORMATION
4. SECOND FLOOR INFORMATION
5. FIRST FLOOR DIMENSION PLAN
6. SECOND FLOOR DIMENSION PLAN
7. FOUNDATION PLAN
8. FIRST FLOOR ELECTRICAL PLAN
9. SECOND FLOOR ELECTRICAL PLAN
10. EXTERIOR ELEVATION (FRONT & REAR)
11. EXTERIOR ELEVATION (LEFT & RIGHT SIDE)

LEGEND



GENERAL NOTES

- 1) ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES, REGULATIONS, AND FHA/VA MPS.
- 2) CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT SITE BEFORE BEGINNING CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED AND DISCUSSED WITH THE HOMEOWNER & ATMOS PROJECT MANAGER FOR JUSTIFICATION AND/OR CORRECTION BEFORE PROCEEDING WITH WORK. CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ERRORS THAT ARE NOT REPORTED.
- 3) ALL DIMENSIONS SHOULD BE READ OR CALCULATED AND NEVER SCALED.
- 4) CONTRACTOR SHALL INSURE COMPATIBILITY OF THE BUILDING WITH ALL SITE REQUIREMENTS.
- 5) WALLS ON BOTH SIDES OF TUBS OR SHOWER UNITS SHALL BE SET ACCORDING TO UNIT, THIS MAY AFFECT OTHER WALL LOCATIONS- DEPENDING ON THE SIZE UNIT BEING USED.
- 6) ALL MANUFACTURED ITEMS INSTALLED IN THIS PROJECT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
- 7) COORDINATE ALL PLUMBING FIXTURES WITH SPECS AND/OR OWNER. (BRAND, COLOR, ETC.)
- 8) AFTER COMPLETION OF PROJECT, CONTRACTOR SHALL REMOVE ALL DEBRIS, & LABELS, WASH GLASS, CLEAN ALL NEWLY INSTALLED ITEMS & ADJACENT SURFACES. (LEAVE BROOM CLEAN.)
- 9) ALL WINDOWS AND DOORS ARE DIMENSIONED TO THE CENTER. ALL EXTERIOR WALL DIMENSIONS ARE TO THE EXTERIOR OF THE WALL.

NOTICE TO CONTRACTOR  
 All construction must comply with current NC Building Codes and is subject to field inspection and verification.

APPROVED  
 Limited building only review  
 Permit holder responsible for full compliance with the code

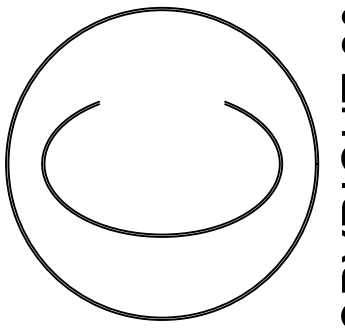
07/20/2022

See revised engineered drawings after sheet 12

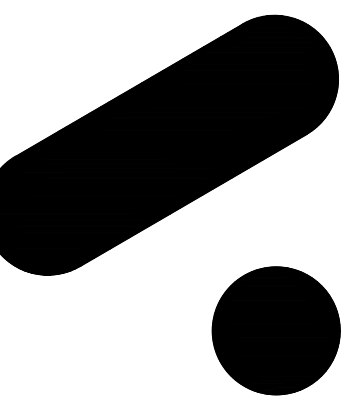
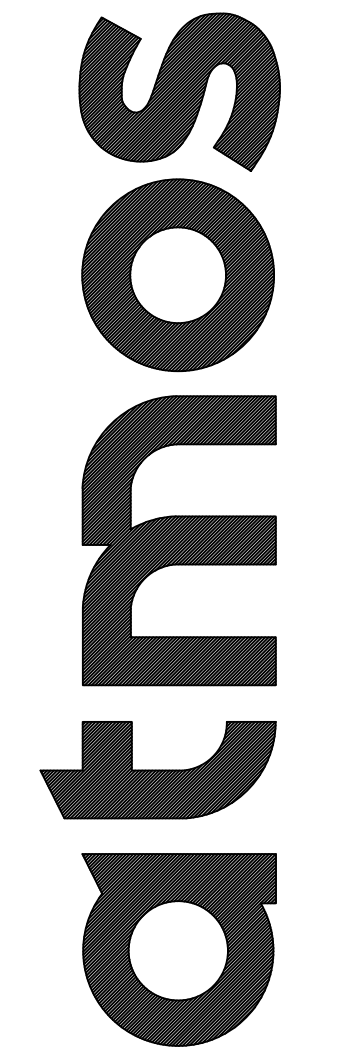
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Project Information :	
Job # & Name :	21-001 KRISHNAN
Current Revision Date :	12.27.21
Drawing Start Date :	00-00-0000
Scale :	1/4" = 1'-0"
Drawn By :	First & Last Name
Checked By :	First & Last Name
VAISHNAVI KRISHNAN	
Address (Build Location) :	
50 TALBERT ROAD, RALEIGH, NC.	
Project Manager :	BEN STONE
First Floor Heated & Cooled :	1,821
Second Floor Heated & Cooled :	999
Basement Floor Heated & Cooled :	0,000
Total Heated & Cooled :	2,820
Unfinished Bonus room :	304
Double-Car Garage :	505
UnCovered Front Porch :	49
UnCovered Rear Porch :	263
Covered Front Porch :	000
Total Unheated :	1121
Total Area Under Beam :	3,941

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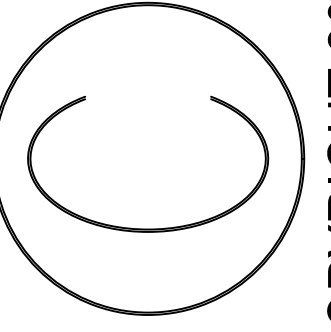
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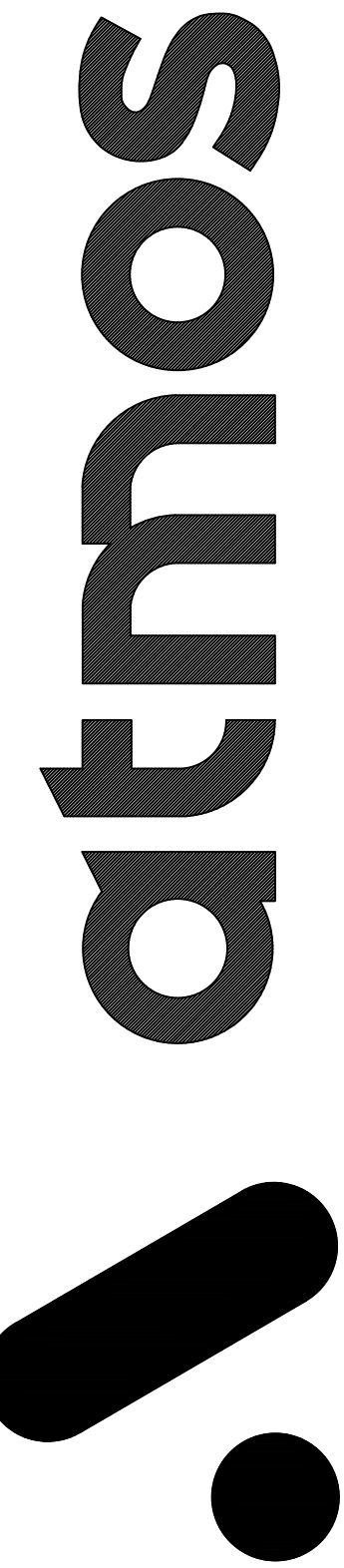
Block :

Lot :

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Door Schedule				
Symbol	Qty.	Size	Location	Description
①	1	16'-0" x 8'-0"	Exterior	Overhead Garage Door
④2	1	3/0x8/0	Exterior R.H.	Door Unit
③7	1	2/8x8/0	Exterior L.H.	Glass Door Unit
⑤4	1	5/0x8/0	Exterior	Double Front Door Unit - Square
⑩3	1	2/0x8/0	Interior L.H.	Door Unit
⑩5	2	2/0x8/0	Interior	Double Door Unit
⑩9	2	2/4x8/0	Interior L.H.	Door Unit
⑩⑩	2	2/4x8/0	Interior R.H.	Door Unit
⑩⑫	2	2/6x8/0	Interior L.H.	Door Unit
⑩⑬	4	2/6x8/0	Interior R.H.	Door Unit
⑩⑯	1	2/6x5/4	Interior L.H.	Door Unit w/ Sill and Weatherstrip
⑩⑰	1	2/6x5/4	Interior R.H.	Door Unit w/ Sill and Weatherstrip
⑩⑳	0	2/8x8/0	Interior L.H.	Door Unit w/ Sill and Weatherstrip
⑩④9	0	5/0x8/0	Interior	Cased Opening
⑩⑥①	1	2/8x8/0	Interior	Arched Opening
⑩⑦①	3	4/0x8/0	Interior	Arched Opening
⑩⑨①	2	1/6x8/0	Interior L.H.	Door Unit
⑩⑨⑥	3	2/6x8/0	Interior R.H.	Door Unit
⑩⑨⑦	1	2/8x8/0	Interior R.H.	Door Unit
⑩①①	2	2/4x8/0	Interior L.H.	Door Unit
⑩①②	2	2/4x8/0	Interior R.H.	Door Unit
⑩①③	1	3/6x8/0	Interior	Arched Opening
⑩①⑤	1	1/8x8/0	Interior L.H.	Door Unit

Window Schedule				
Symbol	Qty.	Size	Type	Description
Ⓐ	6	3/0x5/2	Single Hung	Single (2-Tempered)
Ⓑ	1	3/0x5/2	Single Hung	Single
Ⓘ	1	4/0x4/0	Fixed	Single
Ⓢ	1	2/0x3/0	Single Hung	Single
ⒶP	4	3/0x6/0	Single Hung	Single
ⒷH	1	2/8x4/0	Fixed	Single
ⒷL	4	2/8x6/0	Single Hung	Single
ⒷN	1	2/8x6/0	Single Hung	Triple (Tempered)
ⒷY	1	3/0x2/0	Fixed	Transom

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Project Information :	
Job # & Name :	21-001 KRISHNAN
Current Revision Date :	12.27.21
Drawing Start Date :	00-00-0000
Scale :	1/4" = 1'-0"
Drawn By :	First & Last Name
Checked By :	First & Last Name
Address (Build Location) :	VAISHNAVI KRISHNAN
Address (Build Location) :	50 TALBERT ROAD, RALEIGH, NC.
Project Manager :	BEN STONE

First Floor Heated & Cooled :	1,821
Second Floor Heated & Cooled :	999
Basement Floor Heated & Cooled :	0,000
Total Heated & Cooled :	2,820
Unfinished Bonus room :	304
Double-Car Garage :	505
UnCovered Front Porch :	49
UnCovered Rear Porch :	263
Covered Front Porch :	000
Total Unheated :	1121
<b>Total Area Under Beam :</b>	<b>3,941</b>

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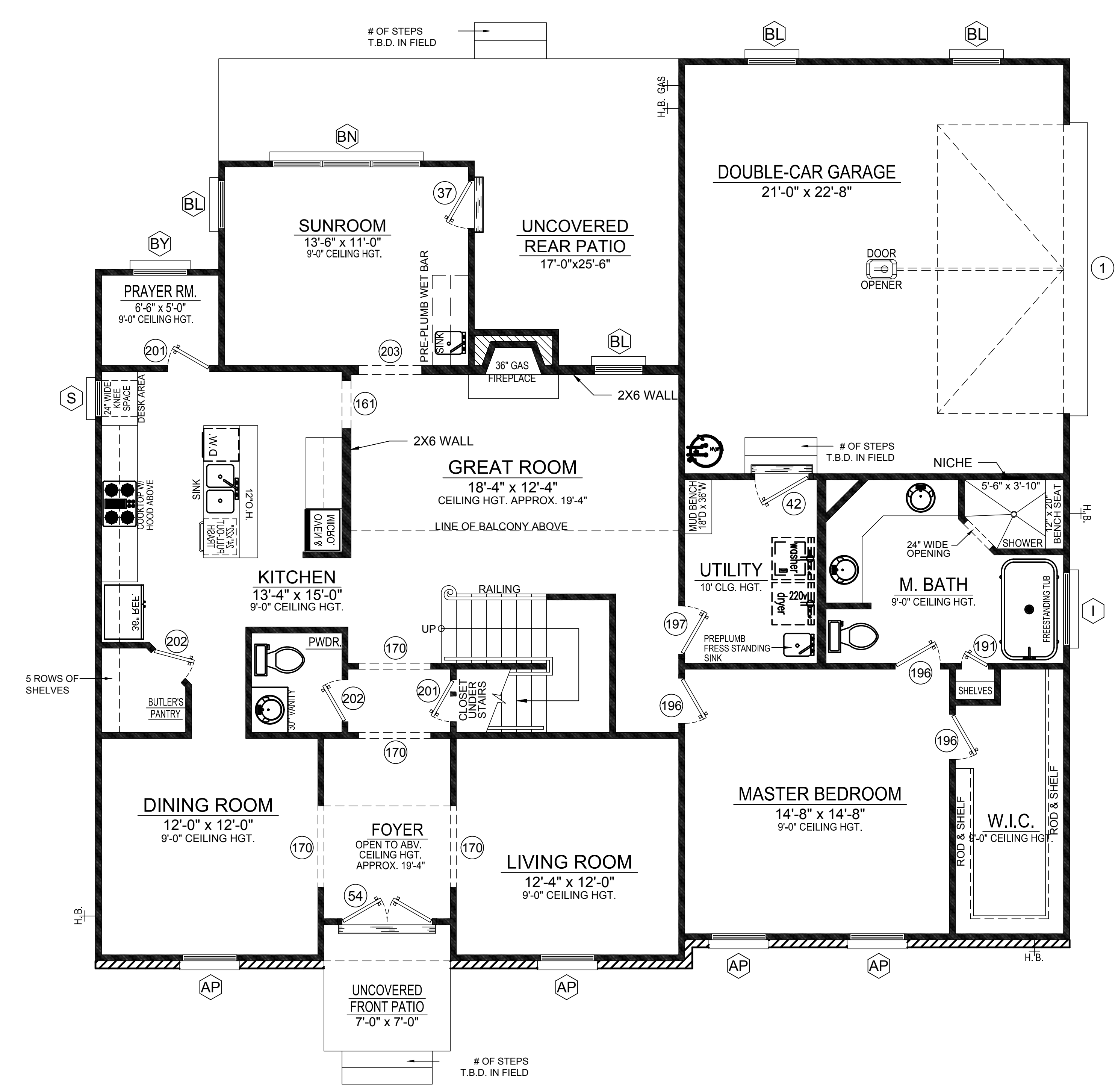
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Subdivision :  
 Lot :  
 Block :

**WALL LEGEND :**

STUD WALLS

BRICK



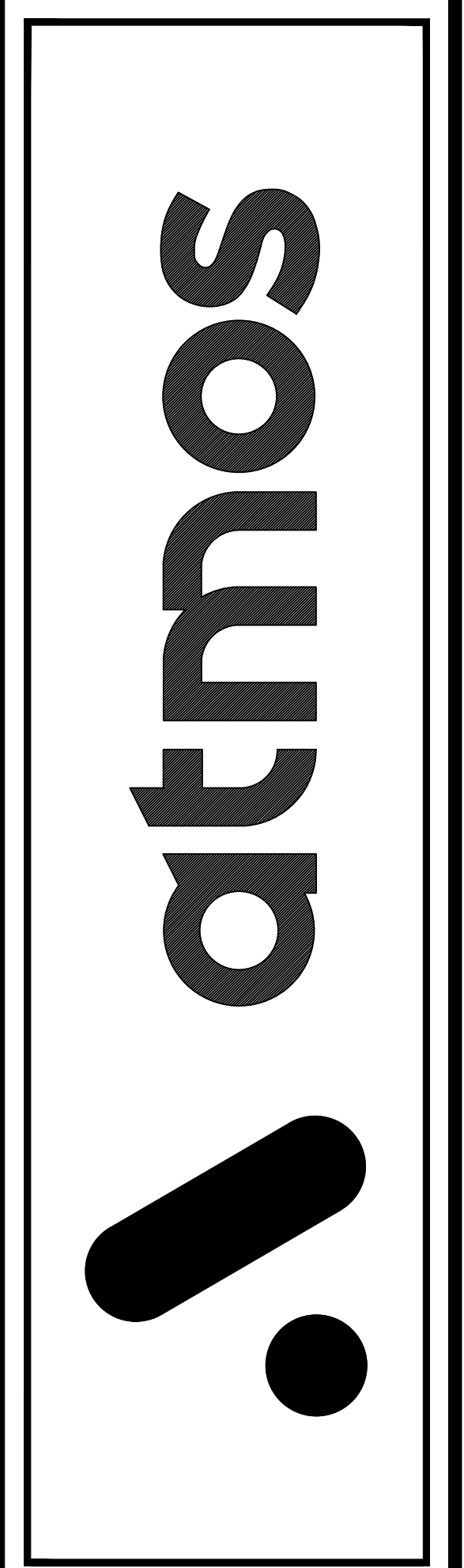
**1 FIRST FLOOR INFORMATION PLAN**  
SCALE : 1/4" = 1'-0"

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<b>Project Information :</b>	
Job # & Name : 21-001 KRISHNAN	First Floor Heated & Cooled : 1,821
Current Revision Date : 12.27.21	Second Floor Heated & Cooled : 999
Drawing Start Date : 00-00-0000	Basement Floor Heated & Cooled : 0,000
Scale : 1/4" = 1'-0"	Total Heated & Cooled : 2,820
Drawn By : First & Last Name	Unfinished Bonus room : 304
Checked By : First & Last Name	Double-Car Garage : 505
VAISHNAVI KRISHNAN	UnCovered Front Porch : 49
Address (Build Location) :	UnCovered Rear Porch : 263
50 TALBERT ROAD, RALEIGH, NC.	Covered Front Porch : 000
Project Manager : BEN STONE	Total Unheated : 1121
	<b>Total Area Under Beam : 3,941</b>

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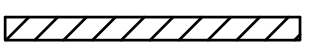
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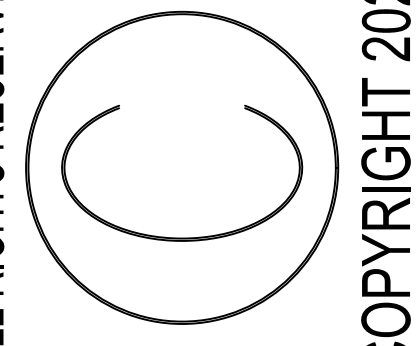
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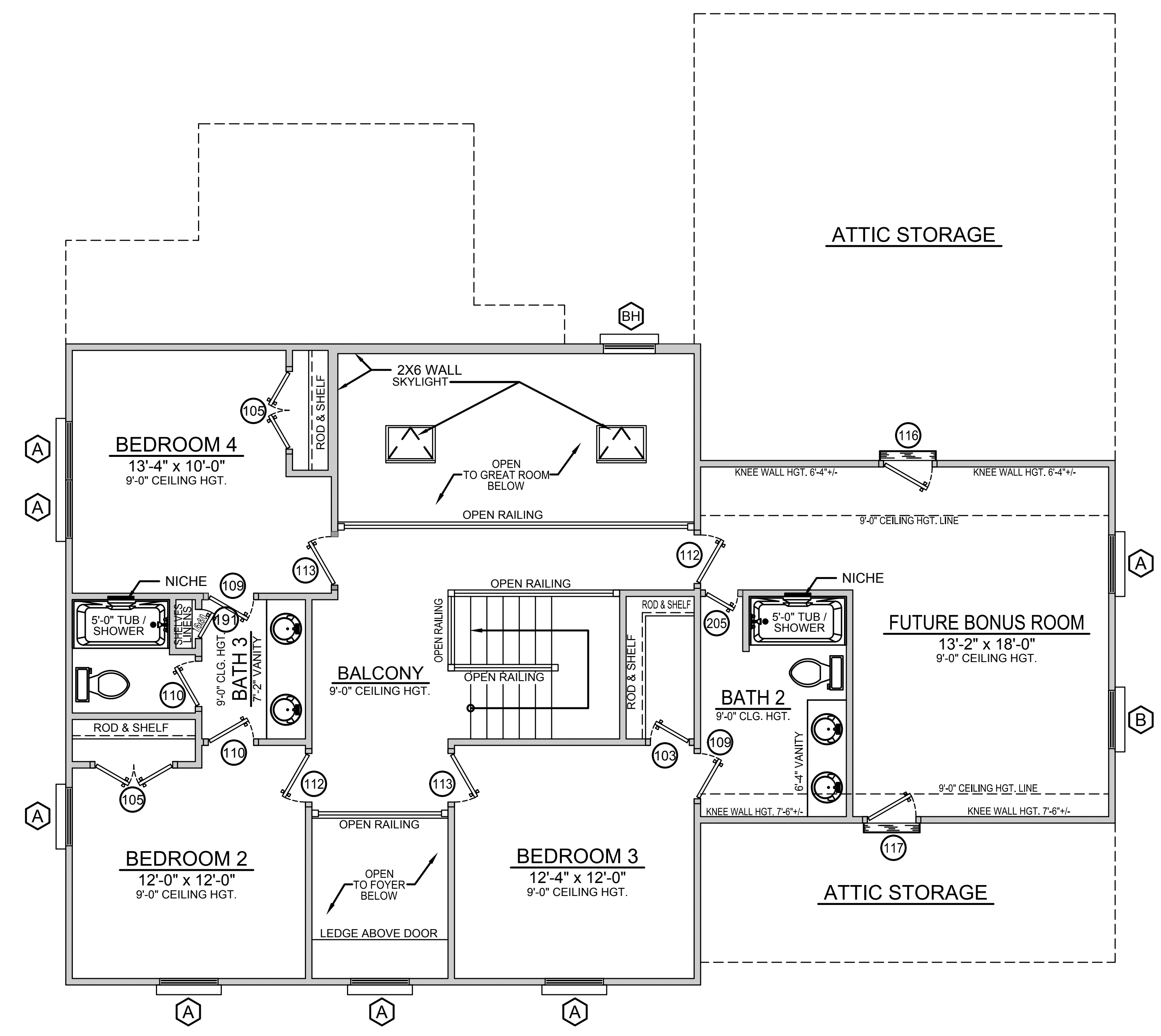
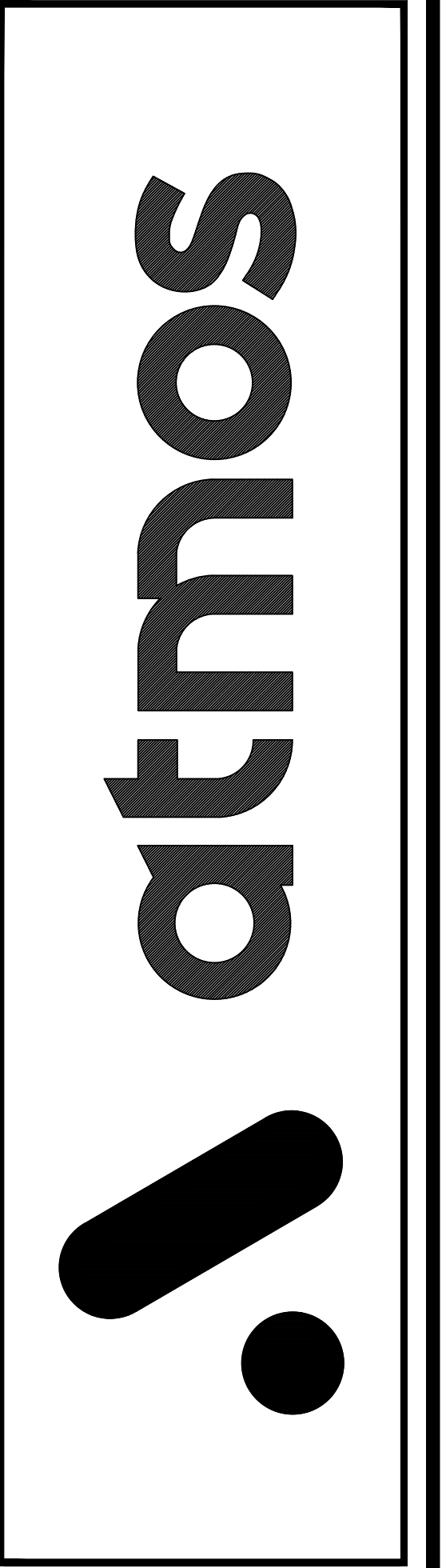
**WALL LEGEND :**

	STUD WALLS
	BRICK

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**1 SECOND FLOOR INFORMATION PLAN**  
SCALE : 1/4" = 1'-0"

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Drawing Start Date : 00-00-0000	Basement Floor Heated & Cooled : 0,000
Scale : 1/4" = 1'-0"	Total Heated & Cooled : 2,820
Drawn By : First & Last Name	Unfinished Bonus room : 304
Checked By : First & Last Name	Double-Car Garage : 505
VAISHNAVI KRISHNAN	UnCovered Front Porch : 49
Address (Build Location) :	UnCovered Rear Porch : 263
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Project Manager : BEN STONE	Total Unheated : 1121
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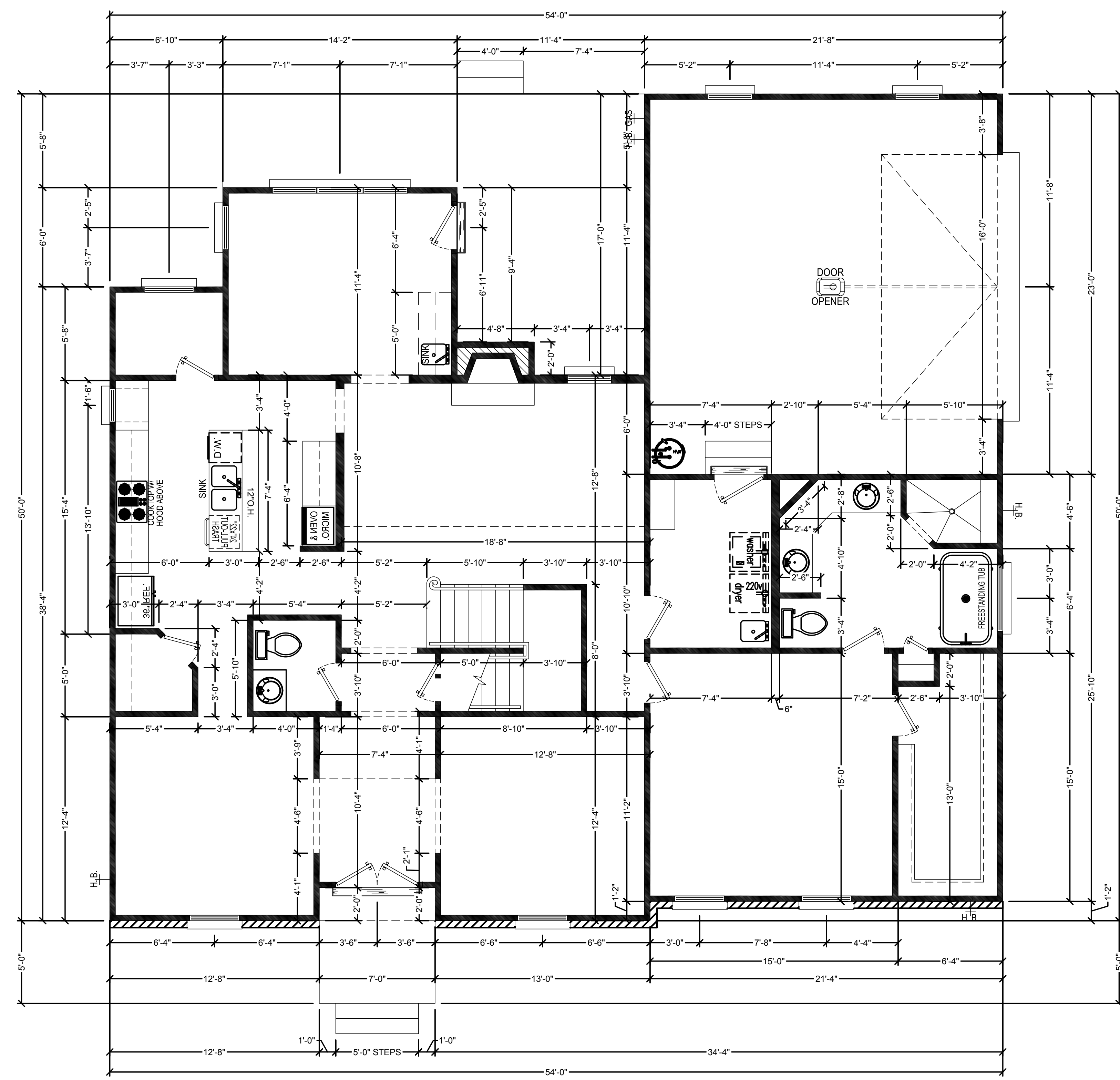
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Subdivision : \_\_\_\_\_

Lot : \_\_\_\_\_

Block : \_\_\_\_\_



**WALL LEGEND :**  
 STUD WALLS

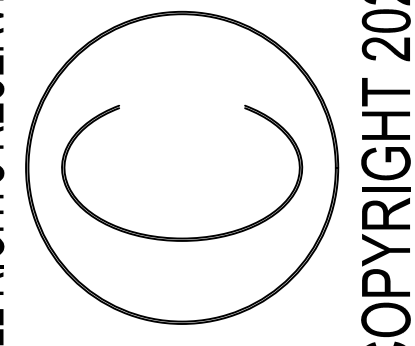
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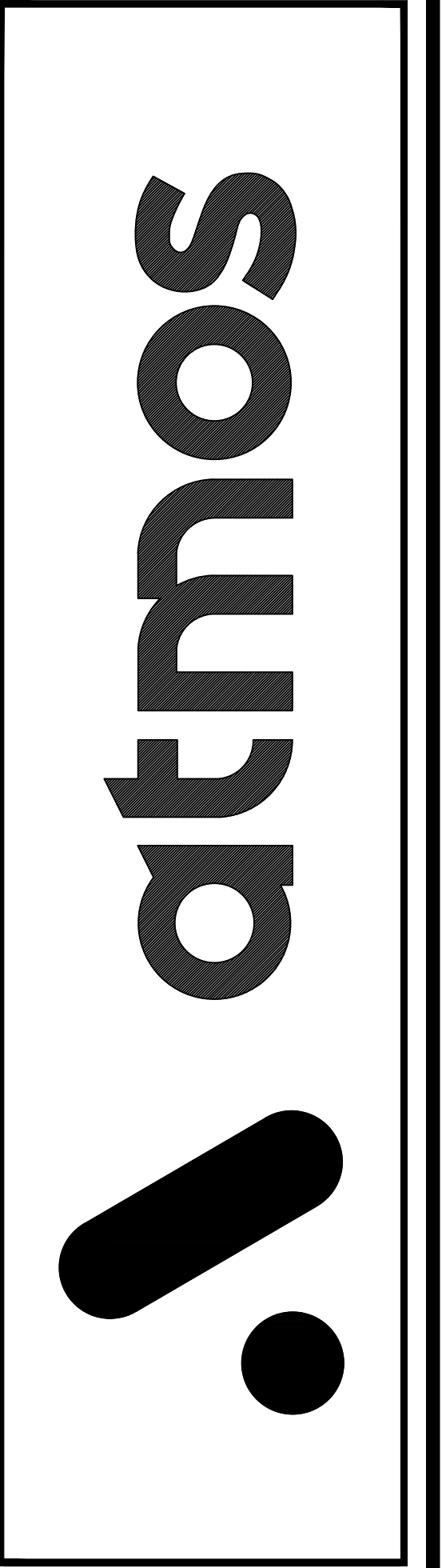
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**Project Information :**

Job # & Name :	21-001 KRISHNAN
Current Revision Date :	12.27.21
Drawing Start Date :	00-00-0000
Scale :	1/4" = 1'-0"
Drawn By :	First & Last Name
Checked By :	First & Last Name
Address (Build Location) :	VAISHNAVI KRISHNAN
Address (Build Location) :	50 TALBERT ROAD, RALEIGH, NC.
Project Manager :	BEN STONE

First Floor Heated & Cooled :	1,821
Second Floor Heated & Cooled :	999
Basement Floor Heated & Cooled :	0,000
Total Heated & Cooled :	2,820
Unfinished Bonus room :	304
Double-Car Garage :	505
UnCovered Front Porch :	49
UnCovered Rear Porch :	263
Covered Front Porch :	000
Total Unheated :	1,121
<b>Total Area Under Beam :</b>	<b>3,941</b>

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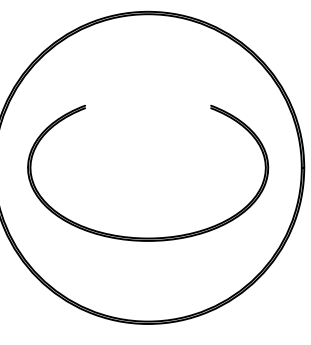
**SIGN-OFF SIGNATURES AND DATES :**

HOMEOWNER	DATE
HOMEOWNER	DATE
REALTOR	DATE
BUILDER	DATE

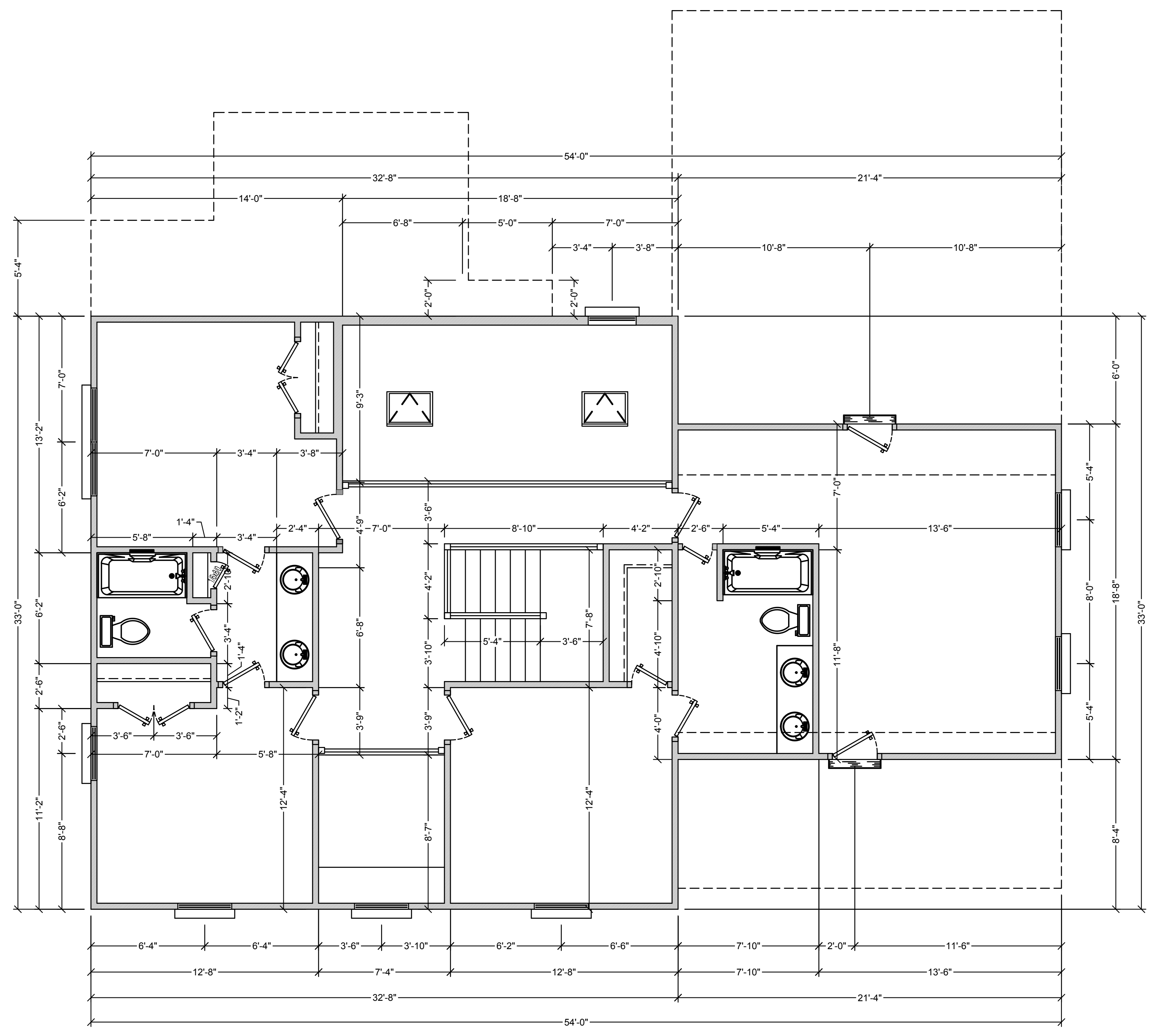
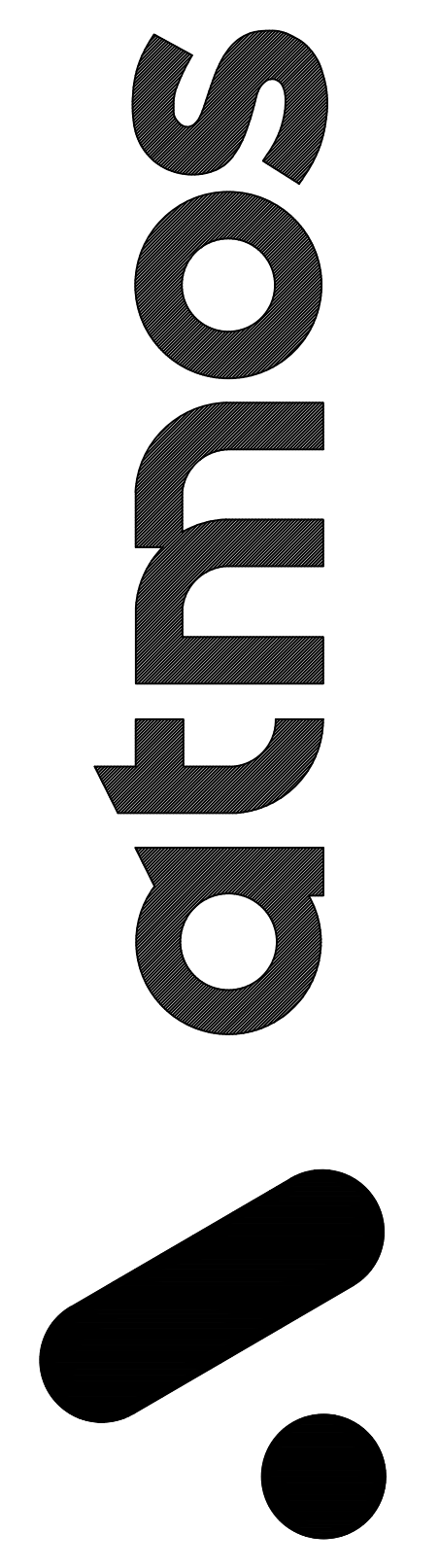
Subdivision :  
 Lot :  
 Block :

**WALL LEGEND:**  
 STUD WALL

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**1 SECOND FLOOR DIMENSION PLAN**  
 SCALE : 1/4" = 1'-0"

**DESIGNER AUTHORIZATION -**  
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**Project Information :**

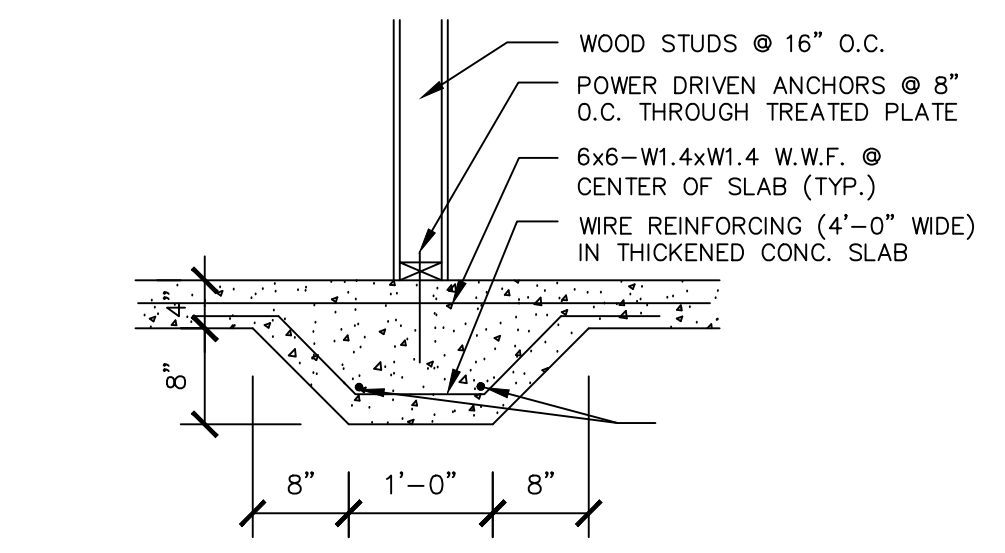
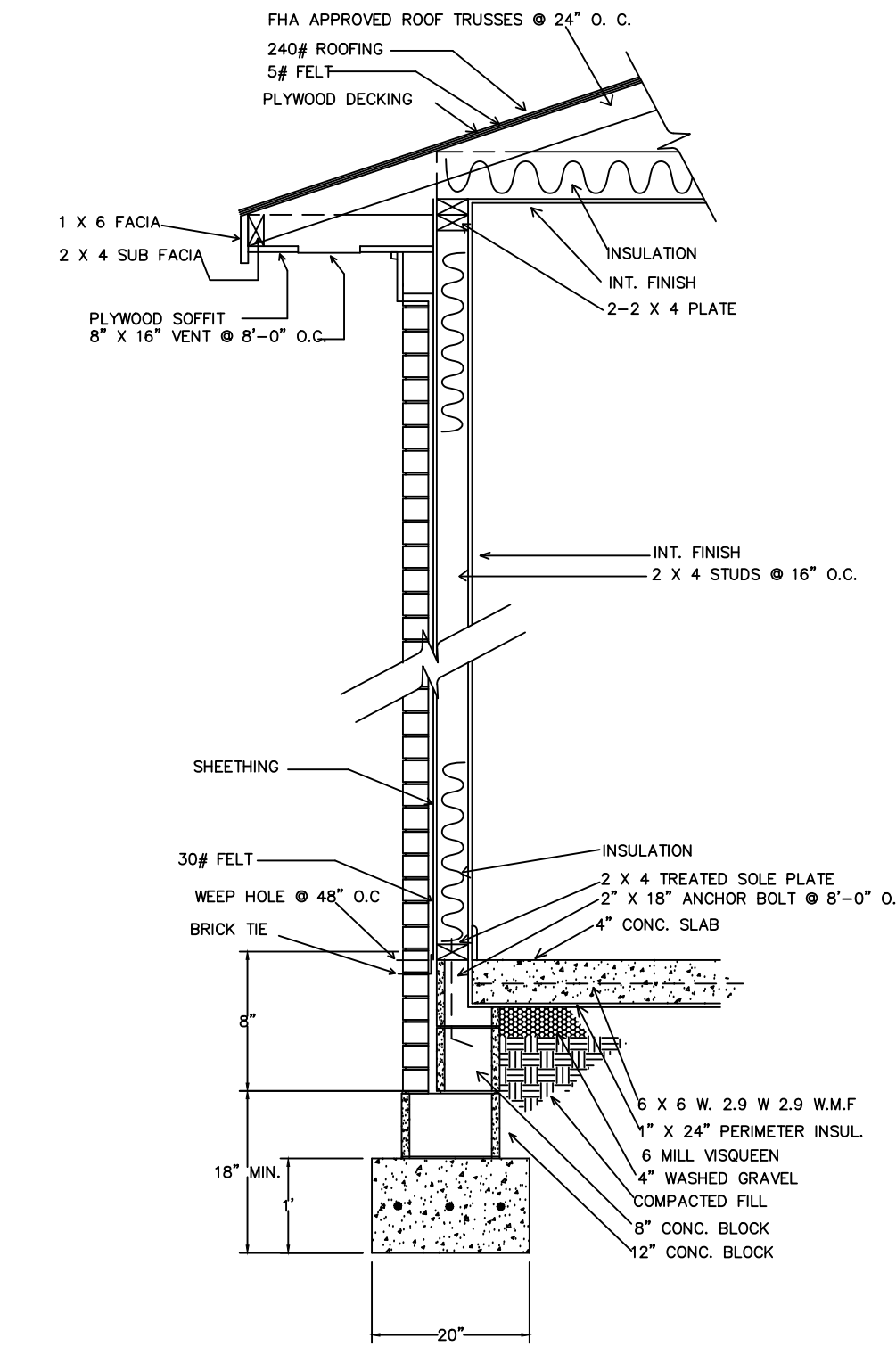
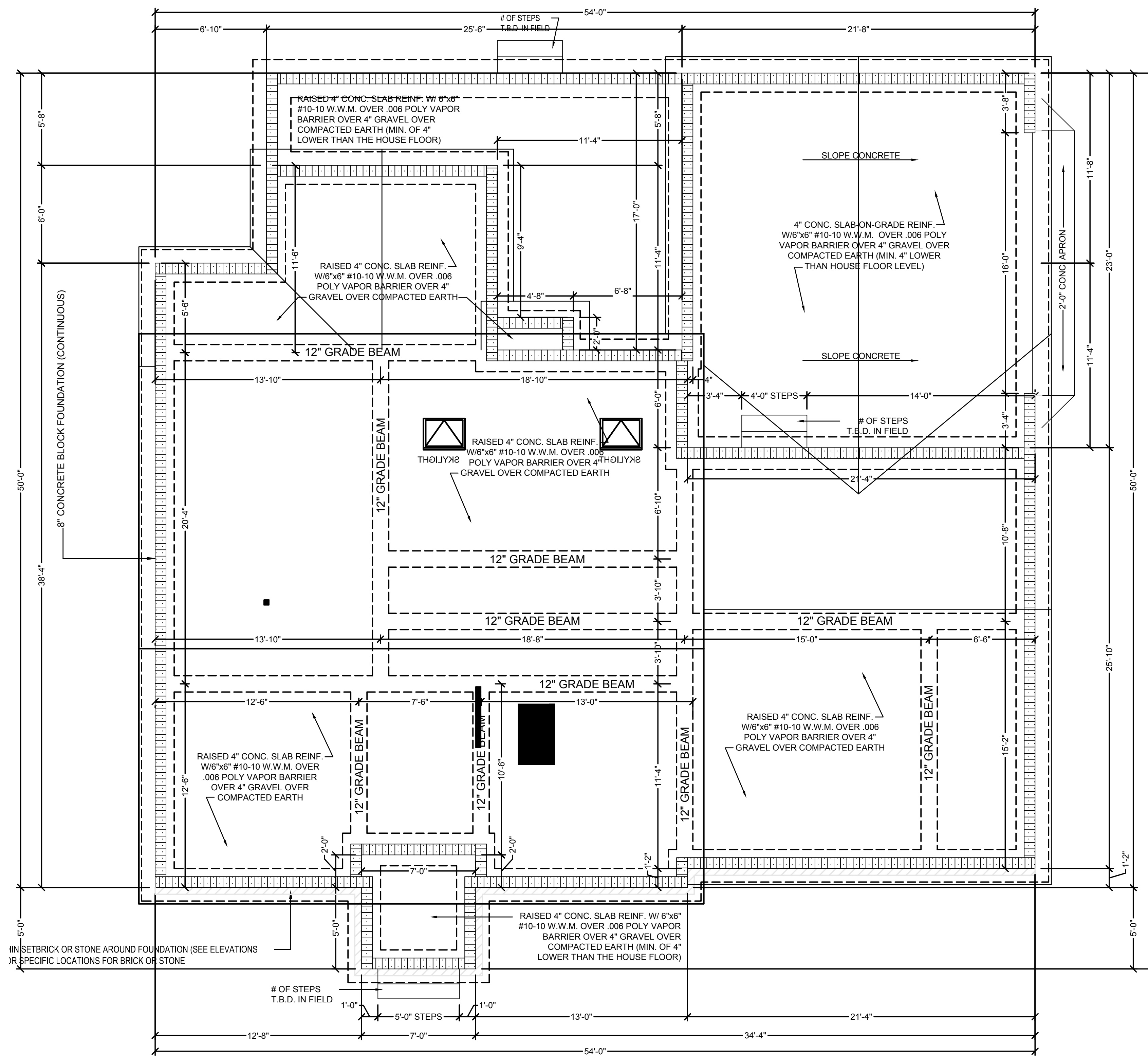
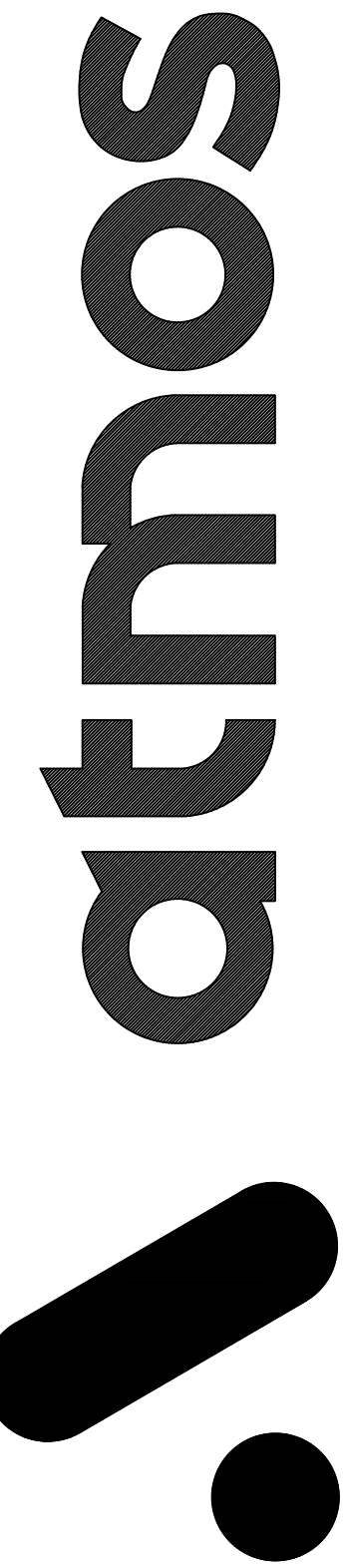
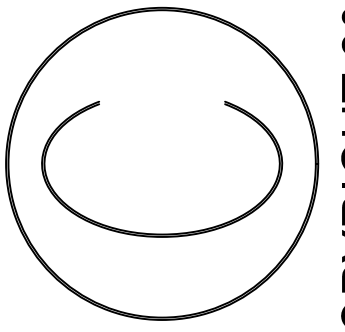
Job # & Name :	21-001 KRISHNAN
Current Revision Date :	12.27.21
Drawing Start Date :	00-00-0000
Scale :	1/4" = 1'-0"
Drawn By :	First & Last Name
Checked By :	First & Last Name
Address (Build Location) :	VAISHNAVI KRISHNAN
Address (Build Location) :	50 TALBERT ROAD, RALEIGH, NC.
Project Manager :	BEN STONE

First Floor Heated & Cooled :	1,821
Second Floor Heated & Cooled :	999
Basement Floor Heated & Cooled :	0,000
Total Heated & Cooled :	2,820
Unfinished Bonus room :	304
Double-Car Garage :	505
UnCovered Front Porch :	49
UnCovered Rear Porch :	263
Covered Front Porch :	000
Total Unheated :	1121
<b>Total Area Under Beam :</b>	<b>3,941</b>

**SIGN-OFF SIGNATURES AND DATES:**

HOMEOWNER	DATE
HOMEOWNER	DATE
REALTOR	DATE
BUILDER	DATE

Subdivision : \_\_\_\_\_  
 Lot : \_\_\_\_\_  
 Block : \_\_\_\_\_



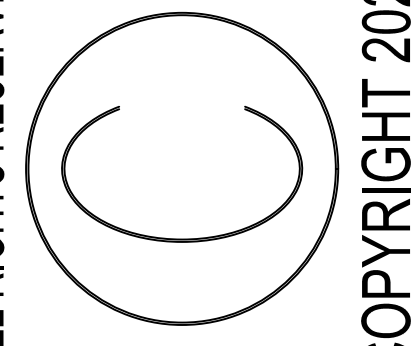
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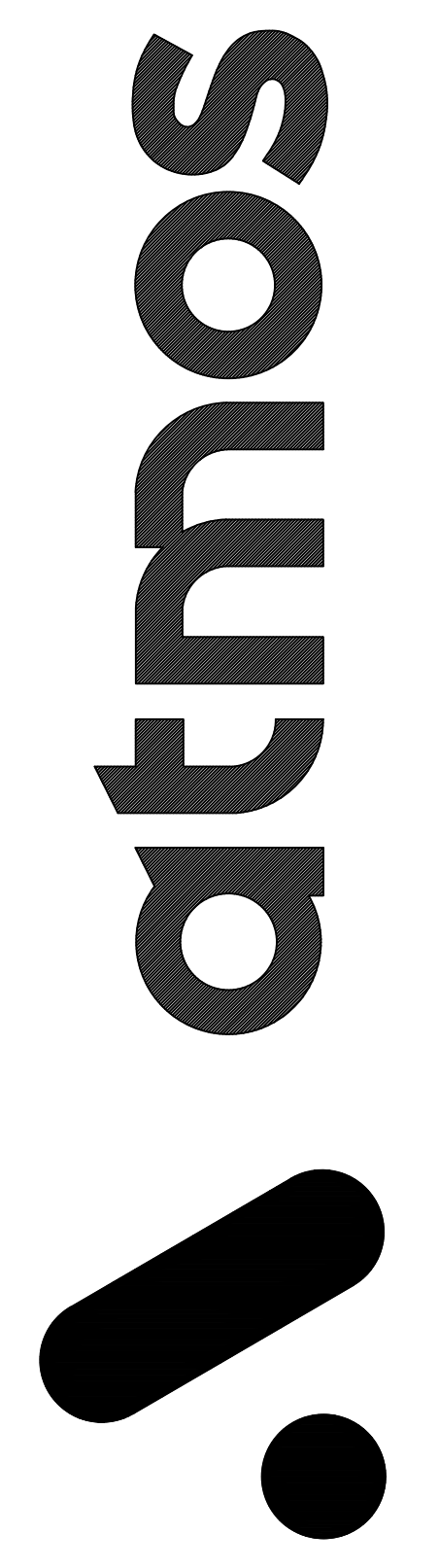
Project Information:		
Job # & Name:	21-001 KRISHNAN	999
Current Revision Date:	12.27.21	
Drawing Start Date:	00-00-0000	2,820
Scale:	1/4" = 1'-0"	304
Drawn By:	First & Last Name	505
Checked By:	First & Last Name	49
Address (Build Location):	VAISHNAVI KRISHNAN	263
50 TALBERT ROAD, RALEIGH, NC.		000
Project Manager:	BEN STONE	1121
First Floor Heated & Cooled:		1,821
Second Floor Heated & Cooled:		999
Basement Floor Heated & Cooled:		0,000
Total Heated & Cooled:		2,820
Unfinished Bonus room:		304
Double-Car Garage:		505
UnCovered Front Porch:		49
UnCovered Rear Porch:		263
Covered Front Porch:		000
Total Unheated:		1121
Total Area Under Beam:		3,941

Subdivision:

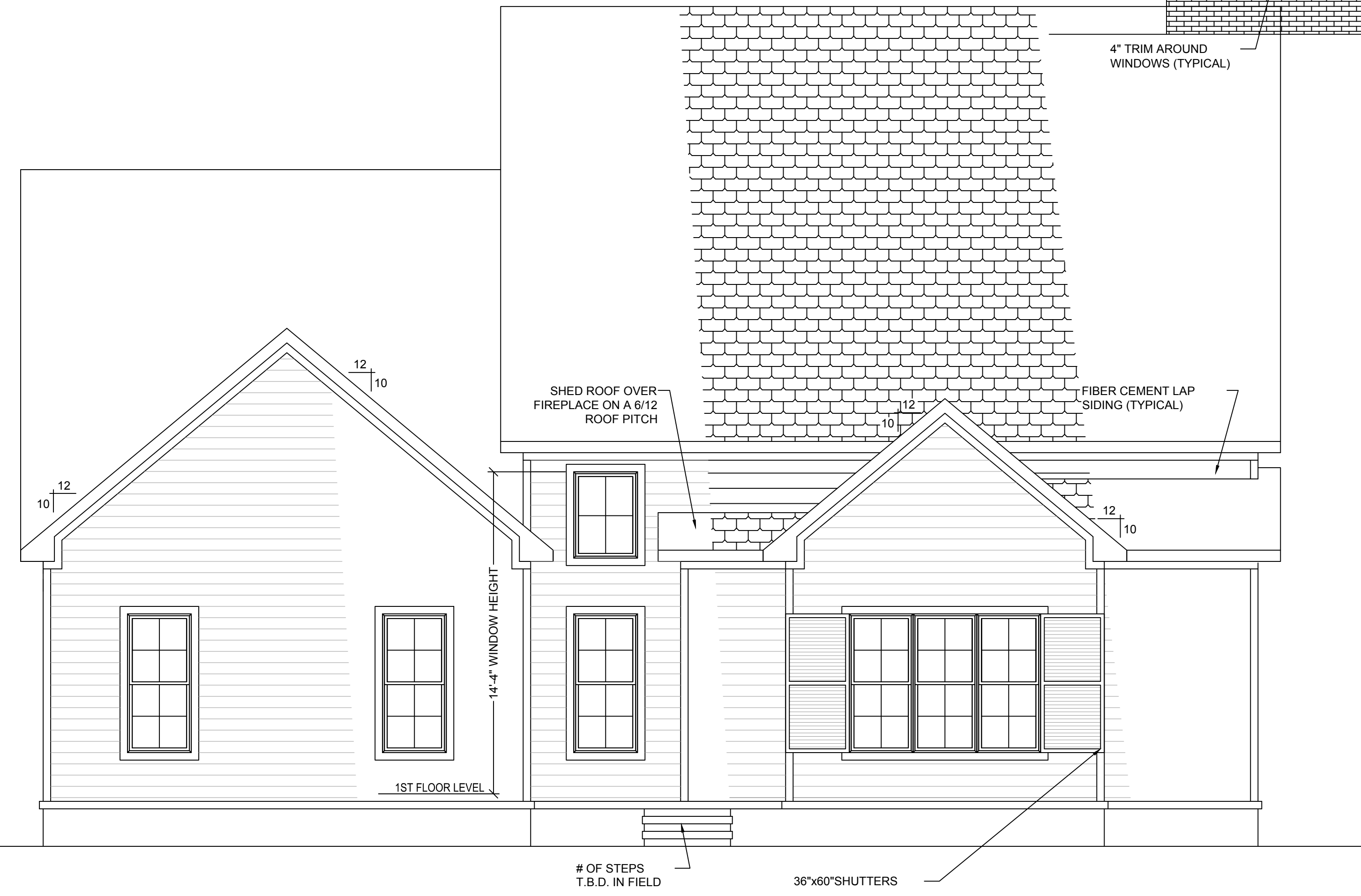
Lot: Block:

GENERAL ELEVATION NOTES :  
 1. RIDGE VENTS TO BE INSTALLED U.N.O.

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1 FRONT ELEVATION  
 SCALE : 1/4" = 1'-0"



2 REAR ELEVATION  
 SCALE : 1/4" = 1'-0"

SIGN-OFF SIGNATURES AND DATES:

HOMEOWNER	DATE	HOMEOWNER	DATE	REALTOR	DATE	BUILDER	DATE
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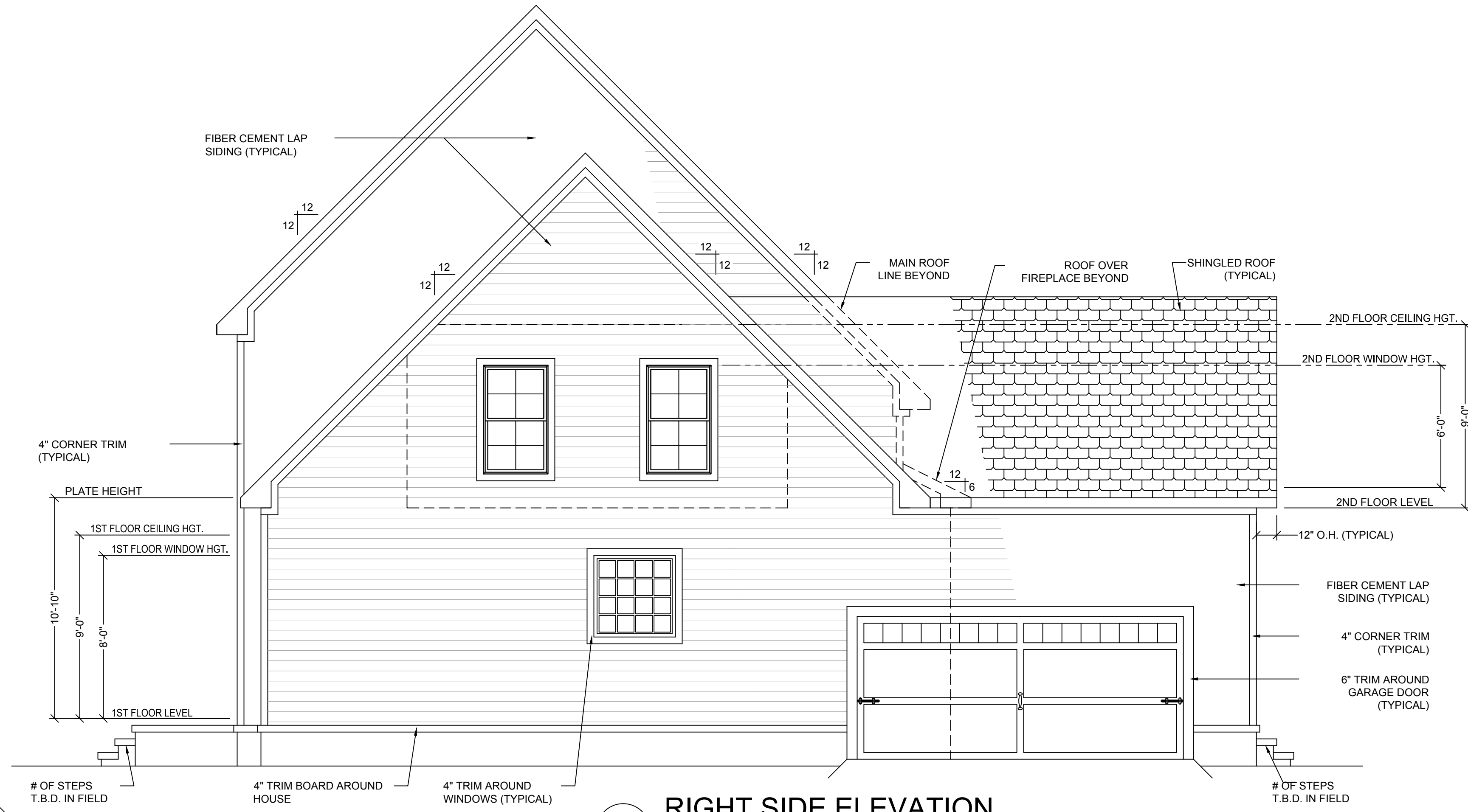
Subdivision : \_\_\_\_\_ Lot : \_\_\_\_\_  
 Block : \_\_\_\_\_

Project Information :	
Job # & Name : 21-001 KRISHNAN	First Floor Heated & Cooled : 1,821
Current Revision Date : 12.27.21	Second Floor Heated & Cooled : 999
Drawing Start Date : 00-00-0000	Basement Floor Heated & Cooled : 0,000
Scale : 1/4" = 1'-0"	Total Heated & Cooled : 2,820
Drawn By : First & Last Name	Unfinished Bonus room : 304
Checked By : First & Last Name	Double-Car Garage : 505
VAISHNAVI KRISHNAN	UnCovered Front Porch : 49
Address (Build Location) :	UnCovered Rear Porch : 263
50 TALBERT ROAD, RALEIGH, NC.	Covered Front Porch : 000
Project Manager : BEN STONE	Total Unheated : 1121
	Total Area Under Beam : 3,941

DESIGNER AUTHORIZATION -  
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GENERAL ELEVATION NOTES :  
1. RIDGE VENTS TO BE INSTALLED U.N.O.



1 RIGHT SIDE ELEVATION  
SCALE : 1/4" = 1'-0"

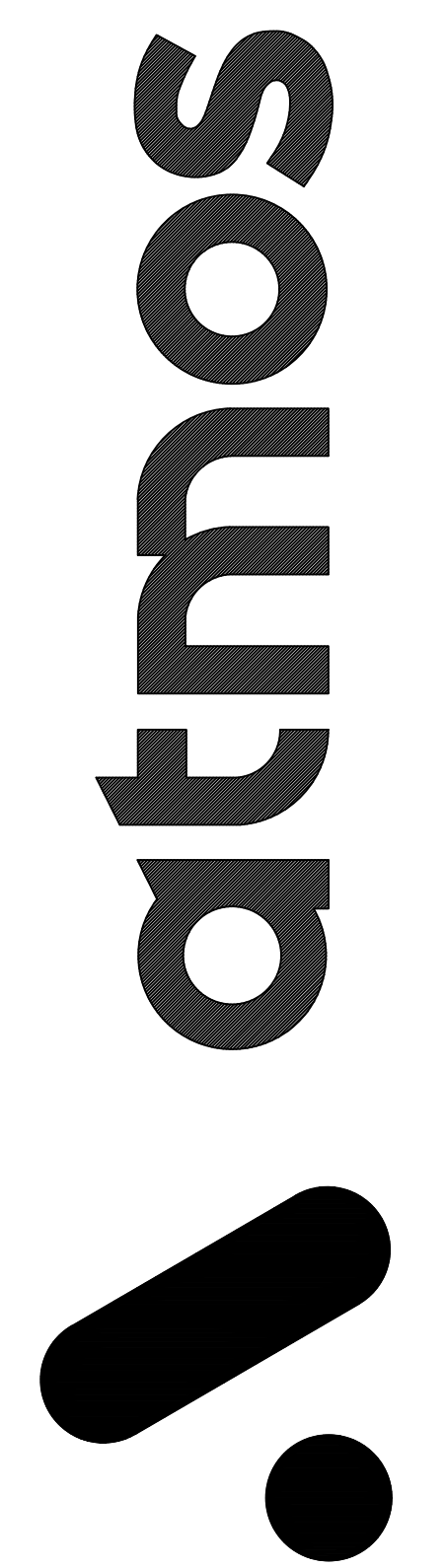


2 LEFT SIDE ELEVATION  
SCALE : 1/4" = 1'-0"

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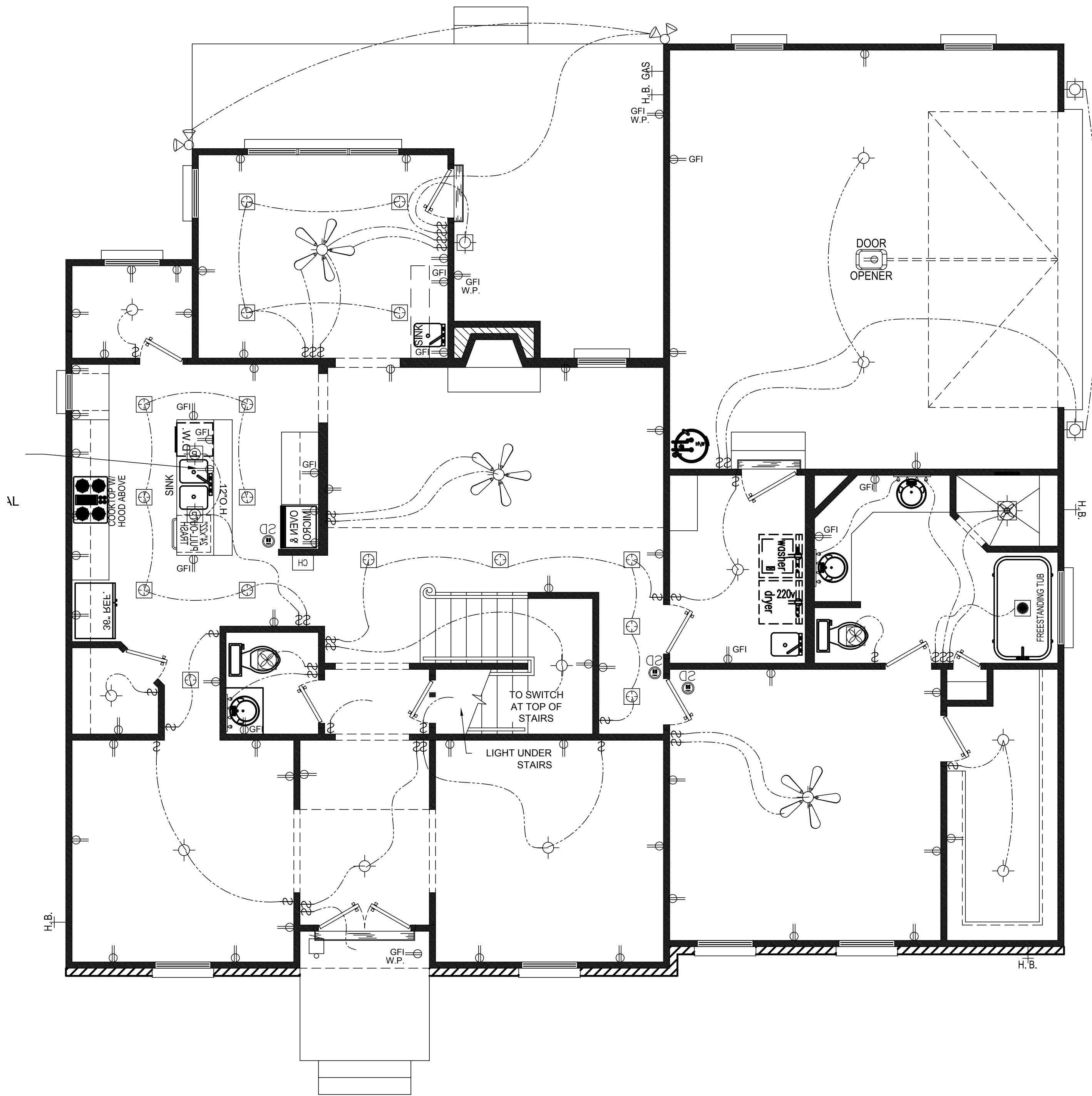
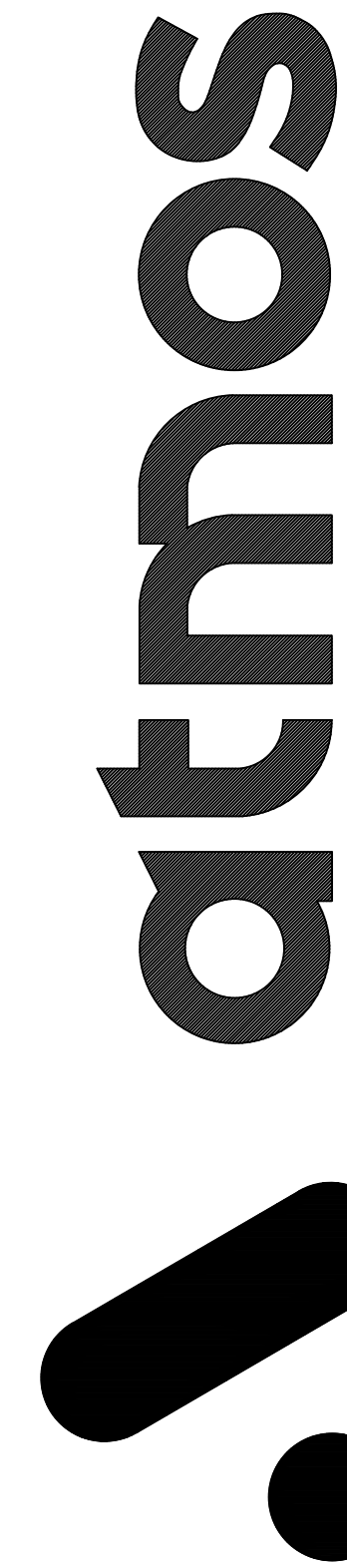
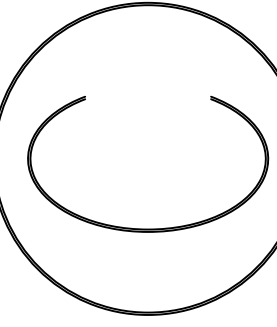
Project Information :	
Job # & Name :	21-001 KRISHNAN
Current Revision Date :	12.27.21
Drawing Start Date :	00-00-0000
Scale :	1/4" = 1'-0"
Drawn By :	First & Last Name
Checked By :	First & Last Name
Address (Build Location) :	VAISHNAVI KRISHNAN
Address (Build Location) :	50 TALBERT ROAD, RALEIGH, NC.
Project Manager :	BEN STONE
First Floor Heated & Cooled :	1,821
Second Floor Heated & Cooled :	999
Basement Floor Heated & Cooled :	0,000
Total Heated & Cooled :	2,820
Unfinished Bonus room :	304
Double-Car Garage :	505
UnCovered Front Porch :	49
UnCovered Rear Porch :	263
Covered Front Porch :	000
Total Unheated :	1121
<b>Total Area Under Beam :</b>	<b>3,941</b>

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SIGN-OFF SIGNATURES AND DATES:	
HOMEOWNER	DATE
HOMEOWNER	DATE
REALTOR	DATE
BUILDER	DATE

Subdivision :  
Lot :  
Block :



ELECTRICAL LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	POWER SWITCH		WATERPROOF RECESSED CAN LIGHT WITH FAN
	DIMMER POWER SWITCH		EXHAUST FAN
	ELECT. RECEPTACLE (110V UNLESS OTHERWISE NOTED)		SMOKE DETECTOR
	GROUND FAULT INTERRUPTER ELECT. RECEPTACLE		DOOR BELL AND CHIME
	ELECT. RECEPTACLE-- LOCATED IN FLOOR OR CEILING		PENDANT/HANGING LIGHT FIXTURE
	CEILING FAN		RECESSED CAN LIGHT
	CEILING HANGING/SURFACE MOUNTED LIGHT FIXTURE		7" LED PUCK LIGHT
	FLOOD/SECURITY LIGHT		VANITY WALL MOUNTED LIGHT FIXTURE
			WATERPROOF CEILING/SURFACE MOUNTED LIGHT FIXTURE

1 FIRST FLOOR ELECTRICAL PLAN  
SCALE : 1/4" = 1'-0"

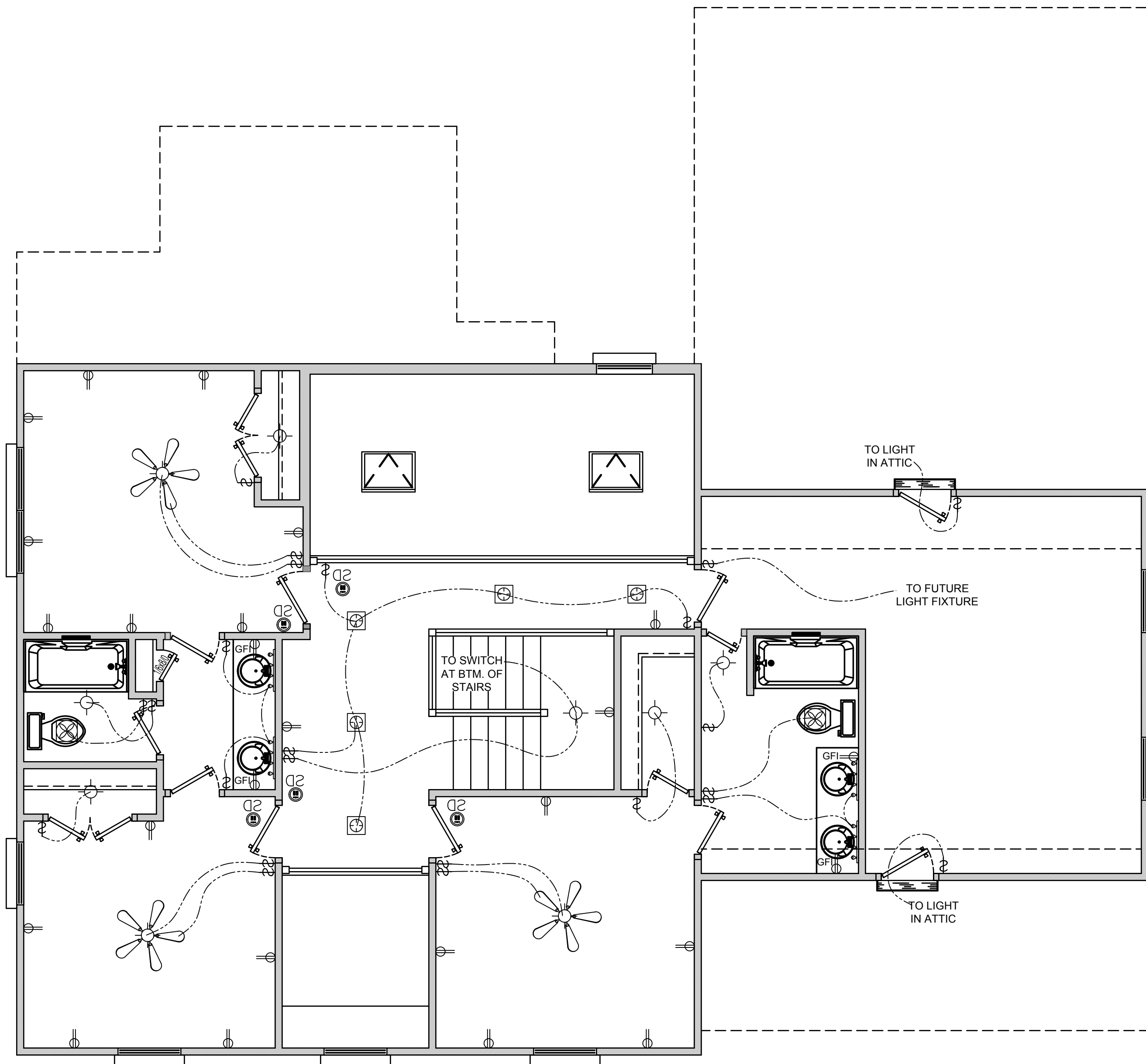
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Project Information :	
Job # & Name :	21-001 KRISHNAN
Current Revision Date :	12.27.21
Drawing Start Date :	00-00-0000
Scale :	1/4" = 1'-0"
Drawn By :	First & Last Name
Checked By :	First & Last Name
Address (Build Location) :	VAISHNAVI KRISHNAN
Address (Build Location) :	50 TALBERT ROAD, RALEIGH, NC.
Project Manager :	BEN STONE
First Floor Heated & Cooled :	1,821
Second Floor Heated & Cooled :	999
Basement Floor Heated & Cooled :	0,000
Total Heated & Cooled :	2,820
Unfinished Bonus room :	304
Double-Car Garage :	505
UnCovered Front Porch :	49
UnCovered Rear Porch :	263
Covered Front Porch :	000
Total Unheated :	1,121
Total Area Under Beam :	3,941

SIGN-OFF SIGNATURES AND DATES:

HOMEOWNER	DATE
HOMEOWNER	DATE
REALTOR	DATE
BUILDER	DATE

Subdivision :  
Lot :  
Block :



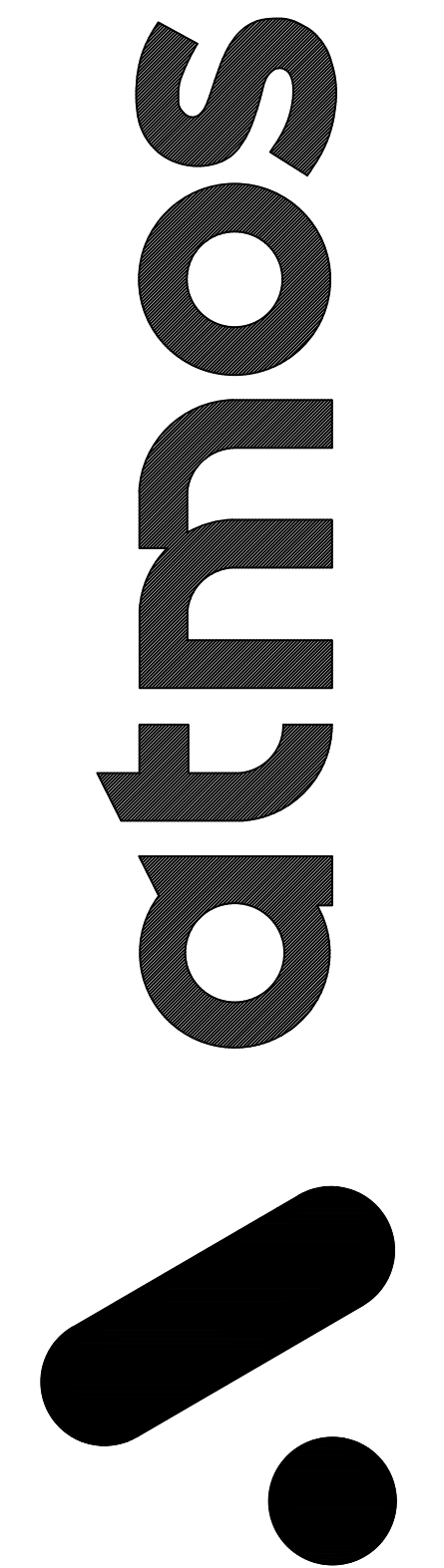
1 SECOND FLOOR ELECTRICAL PLAN  
SCALE : 1/4" = 1'-0"

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
Ⓢ Ⓢ <sup>3</sup>	POWER SWITCH	☒	WATERPROOF RECESSED CAN LIGHT WITH FAN
Ⓢ	DIMMER POWER SWITCH	☒	EXHAUST FAN
Ⓢ	ELECT. RECEPTACLE (110V UNLESS OTHERWISE NOTED)	SD	SMOKE DETECTOR
Ⓢ	GROUND FAULT INTERRUPTER ELECT. RECEPTACLE	☒ CH	DOOR BELL AND CHIME
Ⓢ	ELECT. RECEPTACLE- LOCATED IN FLOOR OR CEILING	☒	PENDANT/HANGING LIGHT FIXTURE
☒	CEILING FAN	☒	RECESSED CAN LIGHT
☒	CEILING HANGING/SURFACE MOUNTED LIGHT FIXTURE	☒	VANITY WALL MOUNTED LIGHT FIXTURE
☒	FLOOD/SECURITY LIGHT	☒	WATERPROOF CEILING/SURFACE MOUNTED LIGHT FIXTURE

DESIGNER AUTHORIZATION -  
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<b>Project Information :</b>	
Job # & Name : 21-001 KRISHNAN	First Floor Heated & Cooled : 1,821
Current Revision Date : 12.27.21	Second Floor Heated & Cooled : 999
Drawing Start Date : 00-00-0000	Basement Floor Heated & Cooled : 0,000
Scale : 1/4" = 1'-0"	Total Heated & Cooled : 2,820
Drawn By : First & Last Name	Unfinished Bonus room : 304
Checked By : First & Last Name	Double-Car Garage : 505
VAISHNAVI KRISHNAN	UnCovered Front Porch : 49
Address (Build Location) :	UnCovered Rear Porch : 263
50 TALBERT ROAD, RALEIGH, NC.	Covered Front Porch : 000
Project Manager : BEN STONE	Total Unheated : 1121
	<b>Total Area Under Beam : 3,941</b>

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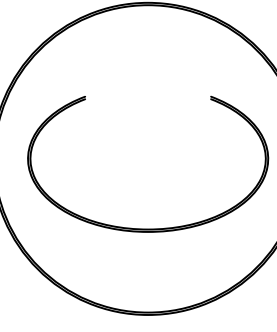


SIGN-OFF SIGNATURES AND DATES:	
HOMEOWNER	DATE
HOMEOWNER	DATE
REALTOR	DATE
BUILDER	DATE

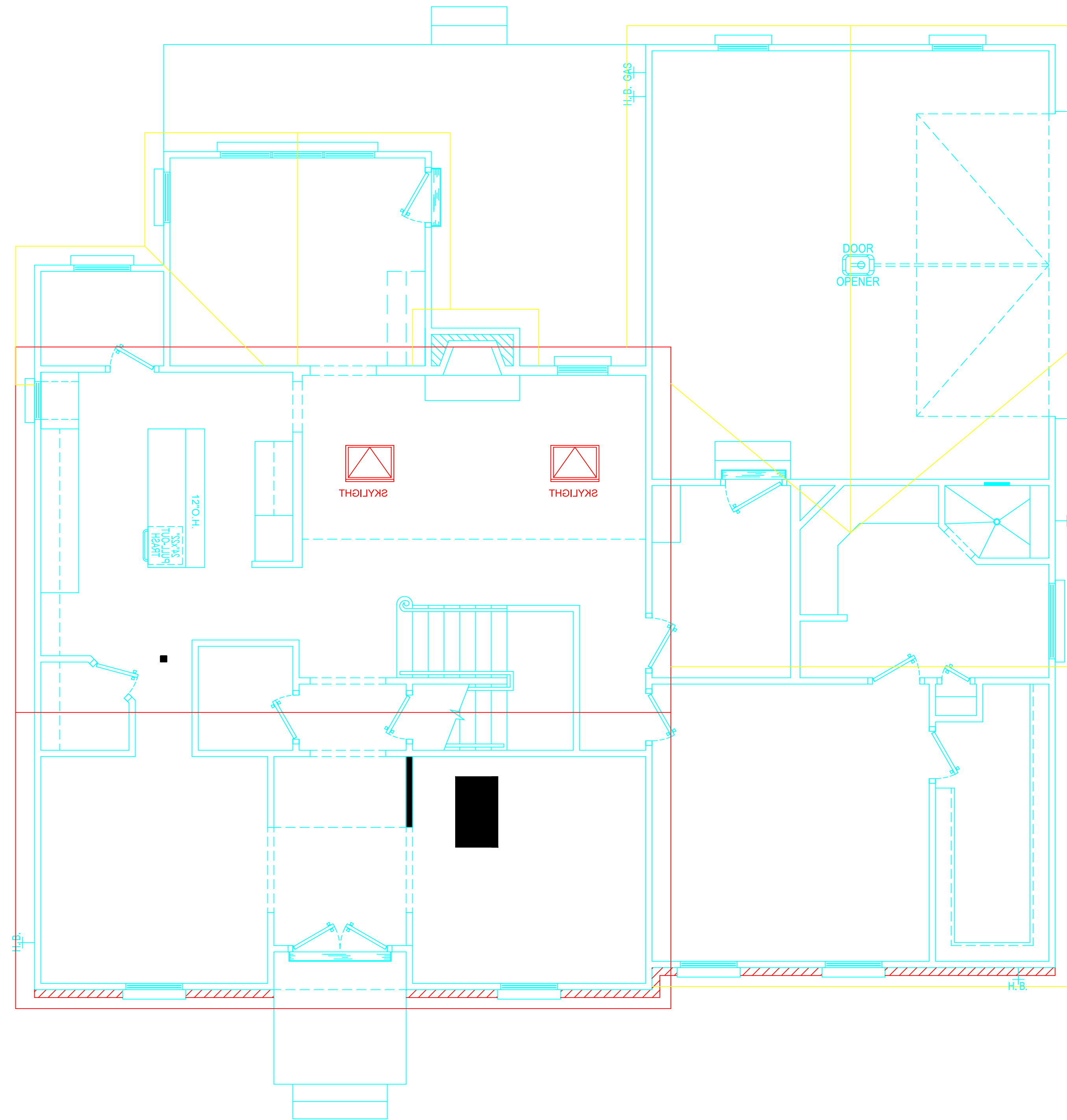
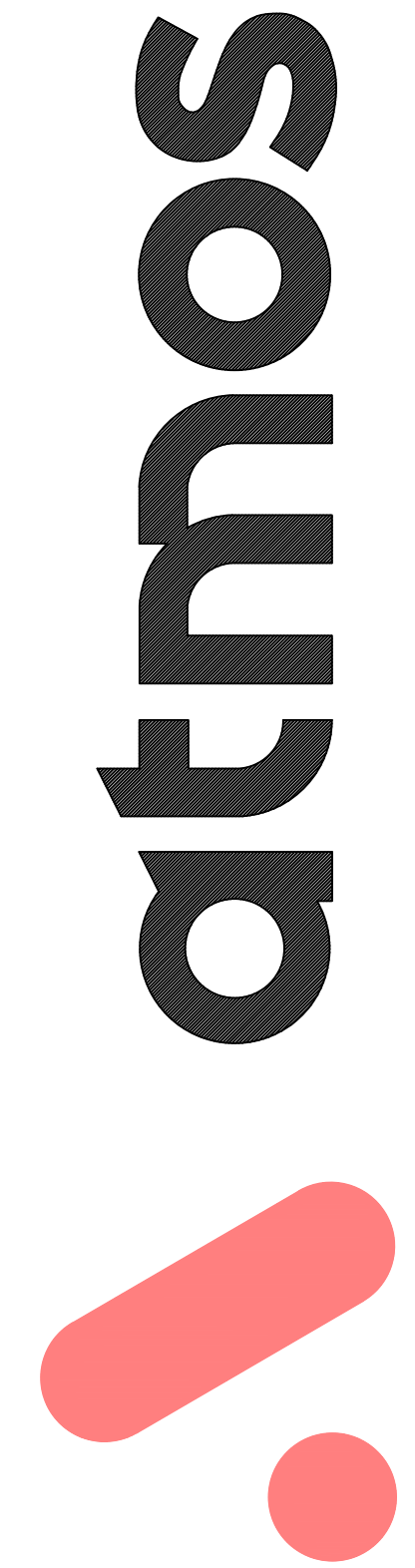
Subdivision :

Lot : Block :

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1 ROOF PLAN  
SCALE : 1/4" = 1'-0"

DESIGNER AUTHORIZATION - ALL IDEAS, DESIGNS, ARRANGEMENTS & PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY ATMOS. THESE DRAWINGS ARE NOT TO BE REPRODUCED BY ANYONE OR BY ANY METHOD INCLUDING BLUE PRINTING, XEROXING, PHOTOGRAPHY, SCANNING, TRACING, RE-DRAWINGS, OR ANY OTHER MEANS. THIS DRAWING IS NOT TO BE USED BY ANYONE FOR REPEAT CONSTRUCTION, SALES, BROCHURES, ADVERTISING OR ANY OTHER PURPOSE. WITHOUT WRITTEN CONSENT OF ATMOS. FOLLOW ALL GENERAL NOTES AND LOCAL BUILDING CODES. ALL SUBCONTRACTORS SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE SITE BEFORE CONSTRUCTION BEGINS. ANY DISCREPANCIES OR ERRORS ON THIS DRAWING SHALL BE REPORTED AND DISCUSSED WITH PROJECT MANAGER, ARCHITECT AND/OR DESIGNER FOR JUSTIFICATION AND/OR CORRECTIONS BEFORE PROCEEDING WITH WORK. ALL SUBCONTRACTORS SHALL ASSUME RESPONSIBILITY FOR ERRORS THAT ARE NOT REPORTED. THE DESIGNER WILL NOT BE LIABLE FOR HUMAN ERROR AFTER CONSTRUCTION BEGINS.

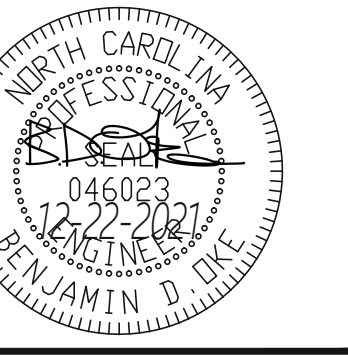
Project Information :	
Job # & Name :	21-001 KRISHNAN
Current Revision Date :	12.27.21
Drawing Start Date :	00-00-0000
Scale :	1/4" = 1'-0"
Drawn By :	First & Last Name
Checked By :	First & Last Name
Address (Build Location) :	VAISHNAVI KRISHNAN
Address (Build Location) :	50 TALBERT ROAD, RALEIGH, NC.
Project Manager :	BEN STONE

First Floor Heated & Cooled :	1,821
Second Floor Heated & Cooled :	999
Basement Floor Heated & Cooled :	0,000
Total Heated & Cooled :	2,820
Unfinished Bonus room :	304
Double-Car Garage :	505
UnCovered Front Porch :	49
UnCovered Rear Porch :	263
Covered Front Porch :	000
Total Unheated :	1121
Total Area Under Beam :	3,941

SIGN-OFF SIGNATURES AND DATES :	
HOMEOWNER	DATE
HOMEOWNER	DATE
REALTOR	DATE
BUILDER	DATE

Subdivision : \_\_\_\_\_

Lot : \_\_\_\_\_ Block : \_\_\_\_\_



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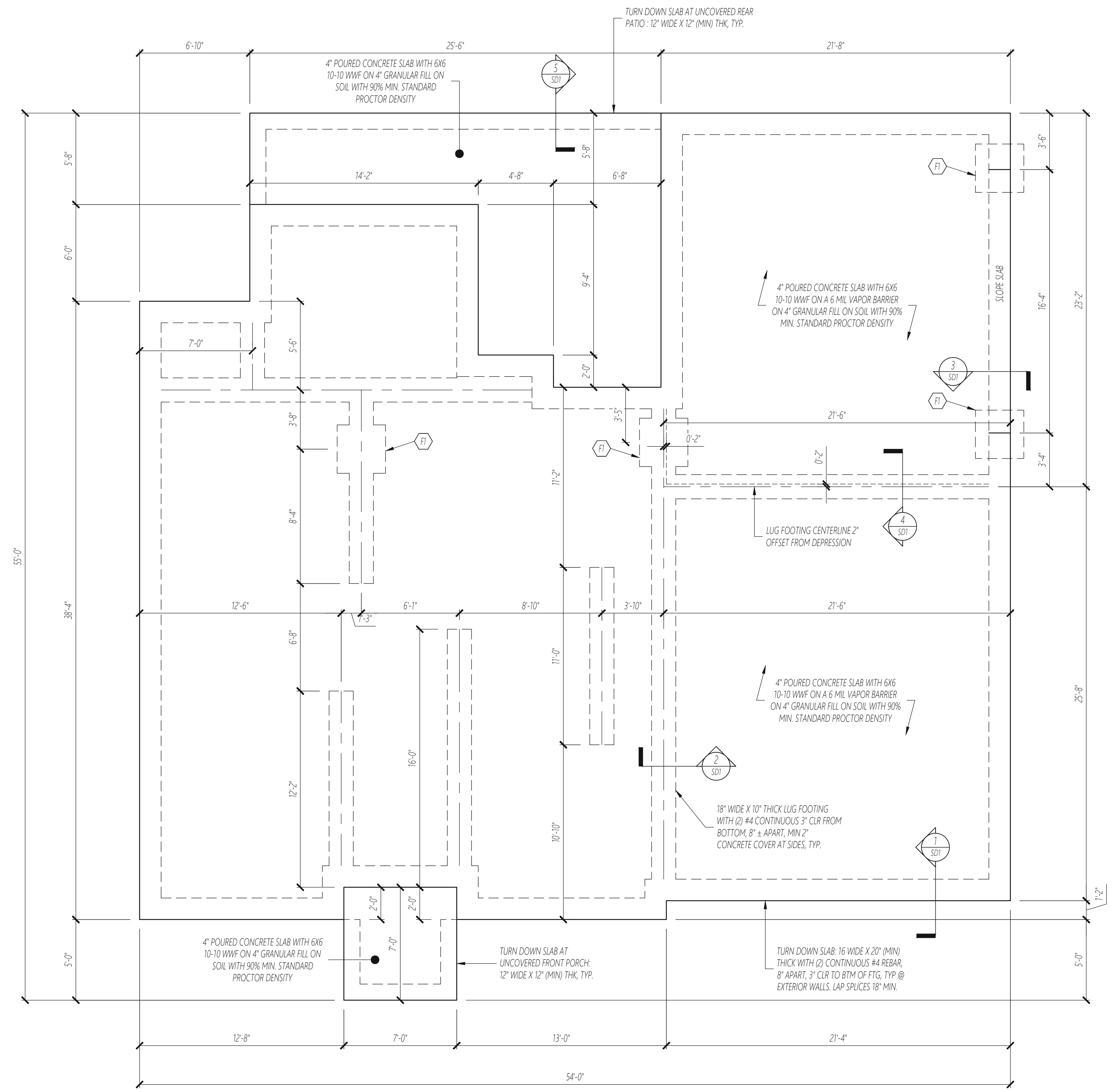
**oke nichols**  
**engineering**  
Structural Engineering and Consulting  
2301 Stonehenge Dr., Suite 202, Raleigh, NC, 27615  
(919) 916-5200 License No. C-4754

ATMOS BUILDERS  
STRUCTURAL ADDENDUM  
50 TALBERT DRIVE

ENG: BDO  
DATE: 12-22-2021  
REV:

PROJECT NO.  
2110304

SHEET NO.  
S1  
1 of 5



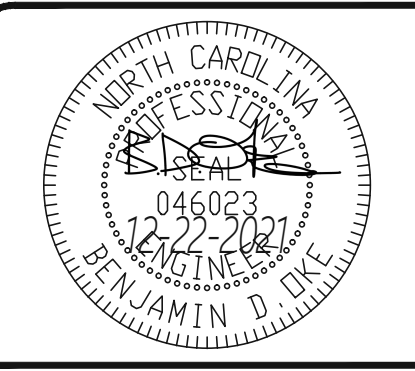
FOUNDATION PLAN  
1/4" = 1'-0"

COMMON WORD ABBREVIATIONS  
-SEE CONSTRUCTION SPECIFICATION FOR LIST OF COMMON WORD ABBREVIATIONS USED ON STRUCTURAL PLANS.

FOUNDATION SCHEDULE

FI: 10" THICK X 36" SQ. FOOTING WITH (6) #4 REBAR @ 6" O.C. EACH DIRECTION, 3" CLR FROM BOTTOM AND SIDES OF FOOTING.

NOTES:  
- FOUNDATION WALL HEIGHT AND BACKFILL LIMITATIONS ARE TO BE GOVERNED BY THE NCRBC, LATEST EDITION.  
- BUILDER IS TO VERIFY WALL THICKNESS, REBAR SIZE AND SPACING IF REQUIRED BY WALL HEIGHT AND BACKFILL CONDITIONS.



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ATMOS BUILDERS  
 STRUCTURAL ADDENDUM  
 50 TALBERT DRIVE

ENG: BDO  
 DATE: 12-22-2021  
 REV:

PROJECT NO.  
 2110304

SHEET NO.  
 S2  
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**COMMON WORD ABBREVIATIONS**

-SEE CONSTRUCTION SPECIFICATION FOR LIST OF COMMON WORD ABBREVIATIONS USED ON STRUCTURAL PLANS.

**WOOD FRAMING NOTES**

ALL FLOORS  
 -SOLID SAWN WOOD FRAMING DESIGN IS BASED ON NO. 1 /NO. 2 SPRUCE-PINE-FIR FOR RAFTERS, JOISTS, STUDS, WOOD BEAMS, WOOD GIRDERS, ETC., TYP UNO.  
 -P.T. SOLID SAWN WOOD FRAMING DESIGN IS BASED ON NO. 2 SOUTHERN YELLOW PINE FOR POSTS, JOISTS, STUDS, WOOD BEAMS, WOOD GIRDERS, ETC., TYP UNO.  
 -SOLID SAWN WOOD FRAMING SUBSTITUTION ALLOWED ONLY BY PERMISSION OF ENGINEER OF RECORD.

**ADDITIONAL JOISTS**

-NON-LOAD BEARING WALLS, BUILT-INS, AND CABINETS ON THE FLOOR ABOVE THAT ARE PARALLEL TO THE FRAMING SYSTEM ON THIS SHEET SHALL HAVE AN ADDITIONAL JOIST PLACED BELOW, TYP UNO, BUILDER TO INSTALL AS REQUIRED, FIELD VERIFY DIMENSIONS

**NO. OF STUDS FOR BEAM SUPPORT**

ALL FLOORS

SAWNO	BEAM TYPE	NO. OF STUDS AT E.E. OF BEAM, TYP UNO	
		(2)-PLY SAWN BEAM	(3)-PLY SAWN BEAM
LVL	(2)-PLY SAWN BEAM	2	3
	(3)-PLY SAWN BEAM	3	3
	(2)-PLY LVL BEAM	3	3
	(3)-PLY LVL BEAM	4	5

NOTES:  
 -SINGLE PLY LVL BEAMS AND XIS TO BE SUPPORT BY SINGLE STUD AT EACH END, TYP.  
 -WHERE BEAMS BEAR PARALLEL TO WALL, BEARING LENGTH OF BEAM AND NO. OF STUDS TO EXTEND ALONG LENGTH OF WALL IN PARALLEL DIRECTION, TYP UNO.

**HEADER SCHEDULE**

THIS FLOOR ONLY

H1: (2) 2X10 ON (1) JACK E.E.  
 H2: (2) 1.75" X 9.25" LVL ON (2) JACKS E.E.  
 H3: (3) 2X10'S ON (1) 2X6 JACK E.E.  
 H4: (3) 1.75" X 9.25" LVL'S ON (2) 2X6 JACKS E.E.

NOTES:  
 -HEADERS IN NON LOAD BEARING INTERIOR WALLS ARE NOT LABELED AND SHALL BE FRAMED ACCORDING TO ACCEPTED CONSTRUCTION PRACTICE.

**KING STUD SCHEDULE**

EXTERIOR WALLS ONLY, ALL FLOORS

MAX OPENING DIMENSION	NO. KING STUDS E.E.	
	2X4 WALL	2X6 WALL
≤3'	1	1
4'	2	1
8'	3	2
12'	5	2
16'	6	3
18'	7	4

NOTES:  
 -NO. OF KINGS STUDS LISTED ABOVE BASED ON A 10' NOMINAL WALL HEIGHT AND 16" O.C. STUD SPACING.  
 -SPANS BASED ON ROUGH OPENINGS. FOR SPANS BTWN DIMENSIONS LISTED ABOVE ROUND UP FOR NO. OF KING STUDS UNO.

**WALL BRACING**

THIS FLOOR ONLY

ALL EXTERIOR STUD WALLS ARE TO BE BRACED WITH CONTINUOUSLY SHEATHED WOOD STRUCTURAL PANELING (METHOD CS-WSP), 3/8" MINIMUM THICKNESS, NAILED TO STUDS WITH 8d NAILS @ 6" O.C. AT PANEL EDGES, AND 12" O.C. IN PANEL FIELD.

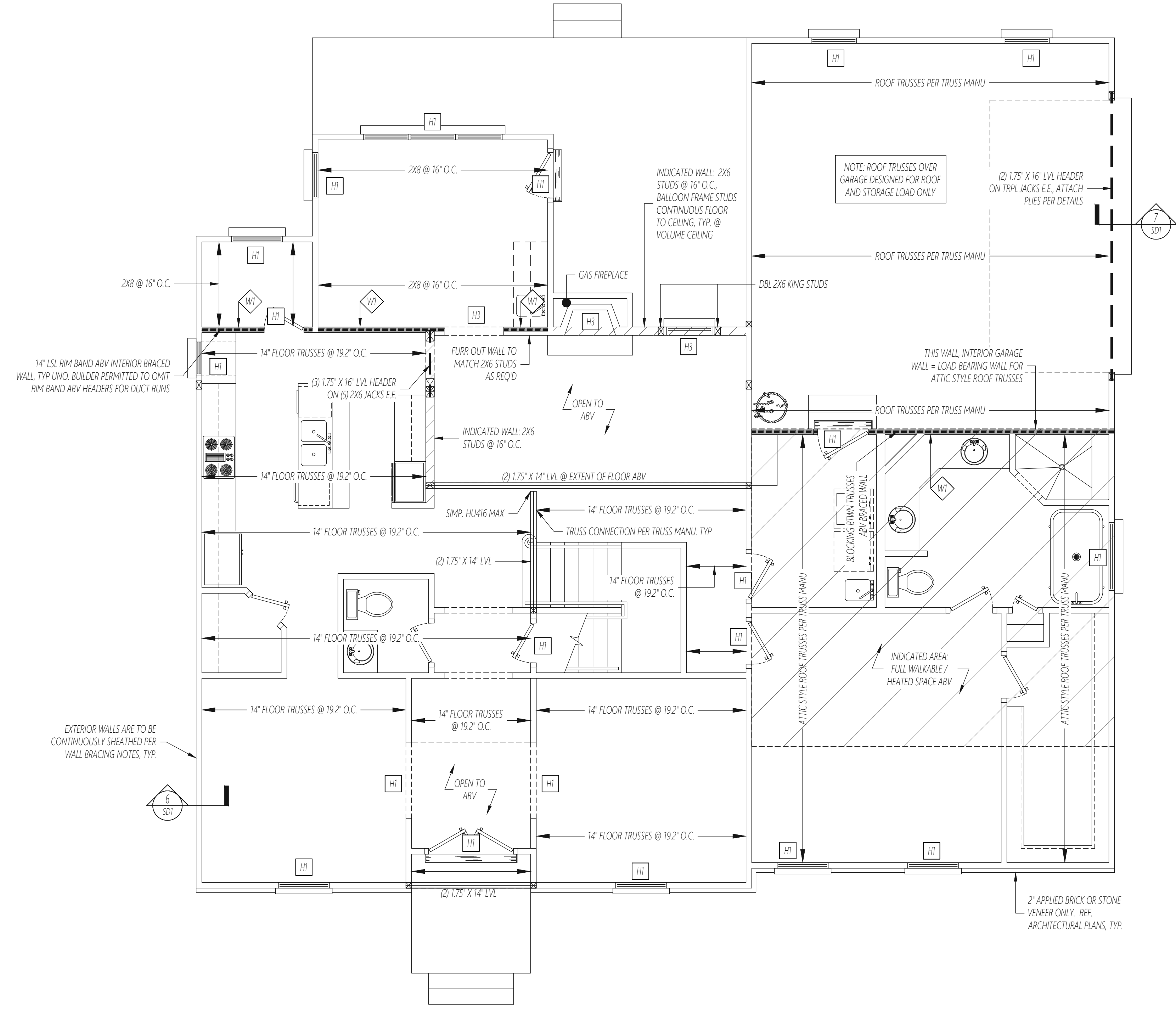
ALL BRACED WALLS SHALL BE SECURED WITH A CONTINUOUS RIM JOIST, ADDITIONAL JOIST, OR FULL HEIGHT BLOCKING ABOVE AND BELOW BRACED WALL PANEL. JOIST / BLOCKING SHALL BE ATTACHED WITH 8d TOENAILS @ 6" O.C. ALONG TOP OF WALL AND (3) 16d NAILS @ 16" O.C. ALONG BOTTOM OF WALL. HORIZONTAL BLOCKING IS REQUIRED AT PANEL JOINTS IN BRACED WALL PANELS.

EXTERIOR BRACED WALLS:  
 -CONTINUOUS PERIMETER SHEATHING = 234'

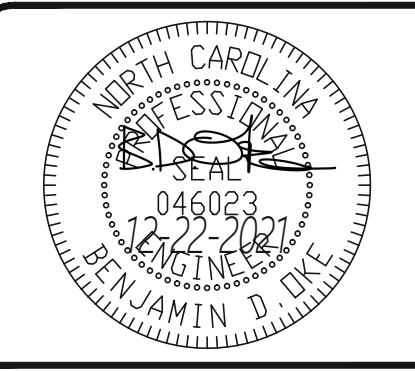
SHADED WALLS = INTERIOR BRACED WALLS AND EXTERIOR WALLS WITH ALTERNATIVE BRACING METHODS

W1 - INTERIOR BRACED WALL WITH GYPSUM BOARD, 1/2" G8 BOTH SIDES OF WALL ATTACHED TO PANEL EDGES, INCLUDING TOP AND BOTTOM PLATES, AT 7" O.C.

NOTES:  
 -WALL BRACING SHALL BE INSTALLED TO BE IN ACCORDANCE WITH SECT. R602.10.3 OF THE 2018 NCR.  
 -WHERE A BUILDING OR PORTIONS THEREOF DOES NOT COMPLY WITH SECT. R602.10.3, ALTERNATIVE METHODS OF BRACING HAVE BEEN DESIGNED IN ACCORDANCE TO ENGINEERING DESIGN PER SECT. R602.10.5 OF THE 2018 NCR.



**1ST FLOOR FRAMING PLAN**  
 WALLS AND CEILING  
 1/4" = 1'-0"



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ATMOS BUILDERS  
 STRUCTURAL ADDENDUM  
 50 TALBERT DRIVE

ENG: BDO  
 DATE: 12-22-2021  
 REV:

PROJECT NO.  
 2110304

SHEET NO.  
 S3  
 3 of 5

**COMMON WORD ABBREVIATIONS**

-SEE CONSTRUCTION SPECIFICATION FOR LIST OF COMMON WORD ABBREVIATIONS USED ON STRUCTURAL PLANS.

**WOOD FRAMING NOTES**

ALL FLOORS  
 -SOLID SAWN WOOD FRAMING DESIGN IS BASED ON NO. 1 / NO. 2 SPRUCE-PINE-FIR FOR RAFTERS, JOISTS, STUDS, WOOD BEAMS, WOOD GIRDERS, ETC., TYP UNO.  
 -P.T. SOLID SAWN WOOD FRAMING DESIGN IS BASED ON NO. 2 SOUTHERN YELLOW PINE FOR POSTS, JOISTS, STUDS, WOOD BEAMS, WOOD GIRDERS, ETC., TYP UNO.  
 -SOLID SAWN WOOD FRAMING SUBSTITUTION ALLOWED ONLY BY PERMISSION OF ENGINEER OF RECORD.

**NO. OF STUDS FOR BEAM SUPPORT**

ALL FLOORS

BEAM TYPE	NO. OF STUDS AT E.E. OF BEAM, TYP UNO
SAWN (2)-PLY SAWN BEAM	2
(3)-PLY SAWN BEAM	3
(2)-PLY LVL BEAM	3
(3)-PLY LVL BEAM	4
(4)-PLY LVL BEAM	5

NOTES:  
 -SINGLE PLY LVL BEAMS AND XIS TO BE SUPPORT BY SINGLE STUD AT EACH END, TYP.  
 -WHERE BEAMS BEAR PARALLEL TO WALL, BEARING LENGTH OF BEAM AND NO. OF STUDS TO EXTEND ALONG LENGTH OF WALL IN PARALLEL DIRECTION, TYP UNO.

**HEADER SCHEDULE**

THIS FLOOR ONLY

H1: (2) 2X10 ON (1) JACK E.E.  
 H2: (2) 1.75" X 9.25" LVL ON (2) JACKS E.E.  
 H3: (3) 2X10'S ON (1) 2X6 JACK E.E.  
 H4: (3) 1.75" X 9.25" LVL'S ON (2) 2X6 JACKS E.E.

NOTES:  
 -HEADERS IN NON LOAD BEARING INTERIOR WALLS ARE NOT LABELED AND SHALL BE FRAMED ACCORDING TO ACCEPTED CONSTRUCTION PRACTICE.

**KING STUD SCHEDULE**

EXTERIOR WALLS ONLY, ALL FLOORS

MAX OPENING DIMENSION	NO. KING STUDS E.E.	
	2X4 WALL	2X6 WALL
≤3'	1	1
4'	2	1
8'	3	2
12'	5	2
16'	6	3
18'	7	4

NOTES:  
 -NO. OF KINGS STUDS LISTED ABOVE BASED ON A 10' NOMINAL WALL HEIGHT AND 16" O.C. STUD SPACING.  
 -SPANS BASED ON ROUGH OPENINGS. FOR SPANS BTWN DIMENSIONS LISTED ABOVE ROUND UP FOR NO. OF KING STUDS UNO.

**WALL BRACING**

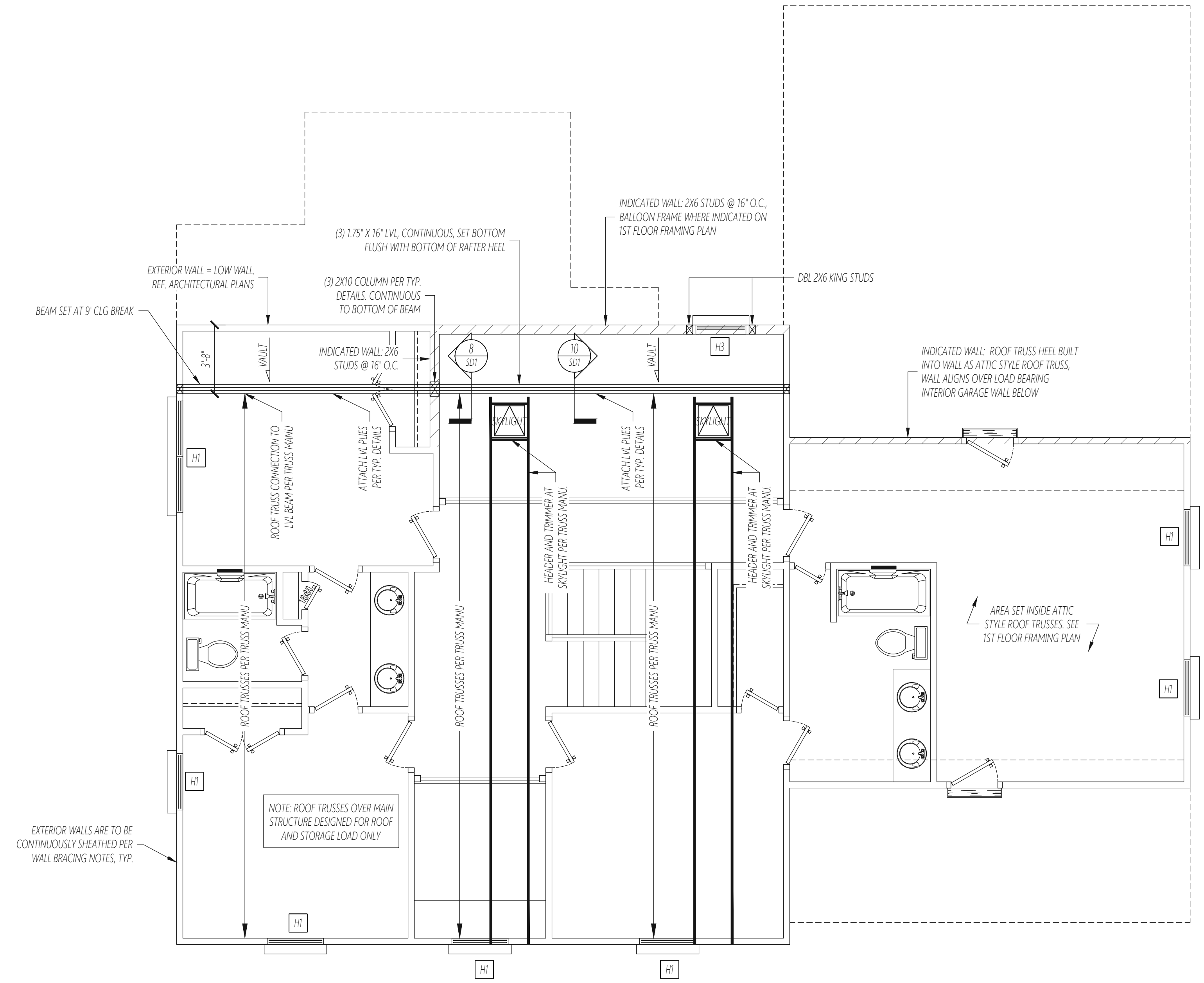
THIS FLOOR ONLY

ALL EXTERIOR STUD WALLS ARE TO BE BRACED WITH CONTINUOUSLY SHEATHED WOOD STRUCTURAL PANELING (METHOD CS-HSP), 3/8" MINIMUM THICKNESS, NAILED TO STUDS WITH 8d NAILS @ 6" O.C. AT PANEL EDGES, AND 12" O.C. IN PANEL FIELD.

ALL BRACED WALLS SHALL BE SECURED WITH A CONTINUOUS RIM JOIST, ADDITIONAL JOIST, OR FULL HEIGHT BLOCKING ABOVE AND BELOW BRACED WALL PANEL. JOIST / BLOCKING SHALL BE ATTACHED WITH 8d TOENAILS @ 6" O.C. ALONG TOP OF WALL AND 3d 16d NAILS @ 16" O.C. ALONG BOTTOM OF WALL. HORIZONTAL BLOCKING IS REQUIRED AT PANEL JOINTS IN BRACED WALL PANELS.

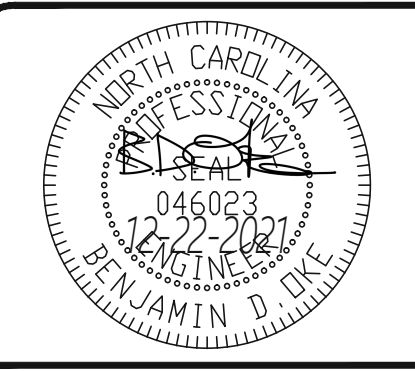
EXTERIOR BRACED WALLS:  
 -CONTINUOUS PERIMETER SHEATHING = 112'

NOTES:  
 -WALL BRACING SHALL BE INSTALLED TO BE IN ACCORDANCE WITH SECT. R602.10.3 OF THE 2018 N.C.R.C.  
 -WHERE A BUILDING OR PORTIONS THEREOF DOES NOT COMPLY WITH SECT. R602.10.3, ALTERNATIVE METHODS OF BRACING HAVE BEEN DESIGNED IN ACCORDANCE TO ENGINEERING DESIGN PER SECT. R602.10.5 OF THE 2018 N.C.R.C.



**2ND FLOOR FRAMING PLAN**

WALLS AND CEILING  
 1/4" = 1'-0"



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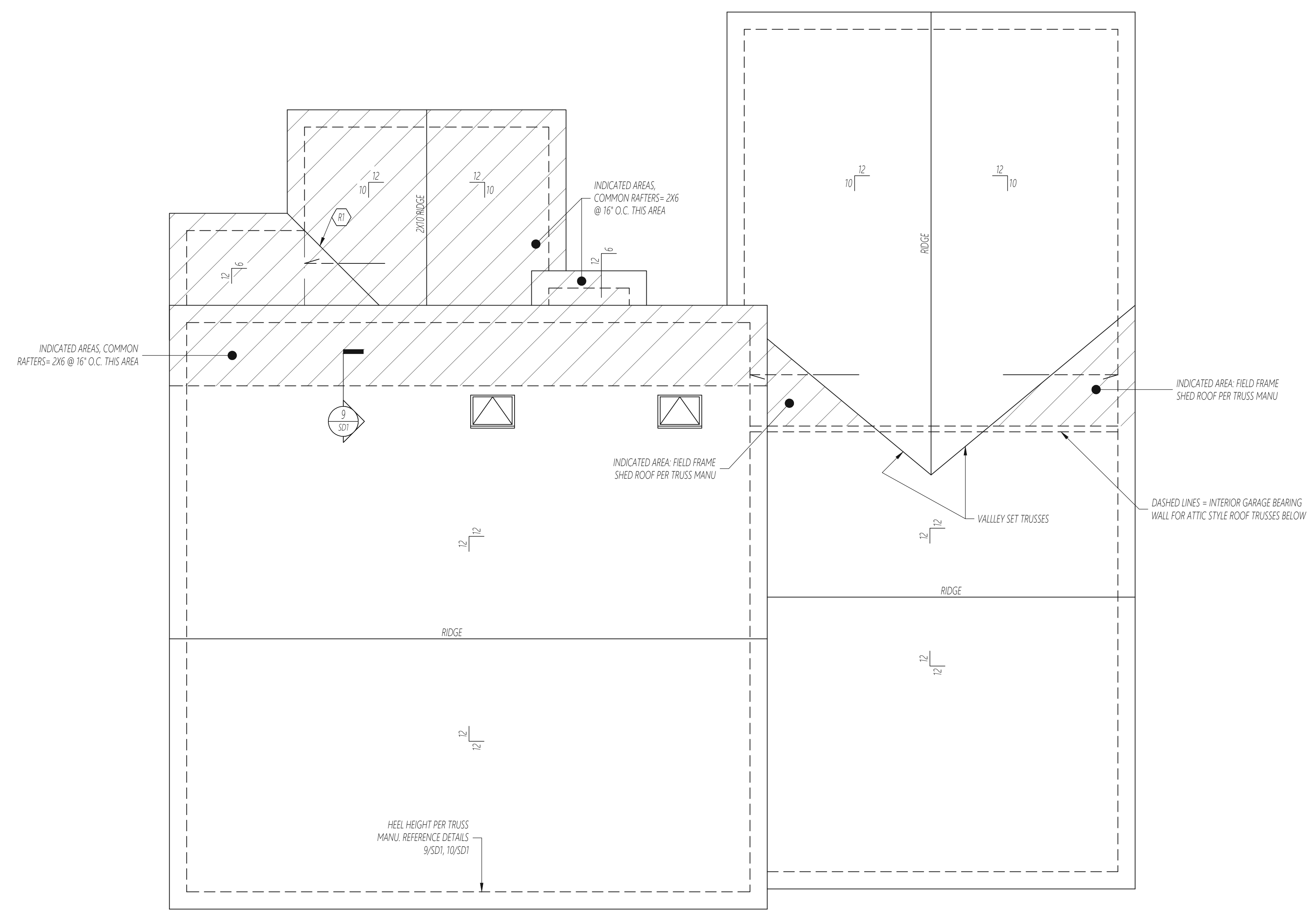
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ATMOS BUILDERS  
 STRUCTURAL ADDENDUM  
 50 TALBERT DRIVE

ENG: BDO  
 DATE: 12-22-2021  
 REV:

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**ROOF FRAMING PLAN**  
 1/4" = 1'-0"

**COMMON WORD ABBREVIATIONS**  
 -SEE CONSTRUCTION SPECIFICATION FOR LIST OF COMMON WORD ABBREVIATIONS USED ON STRUCTURAL PLANS.

**WOOD FRAMING NOTES**  
 ALL FLOORS  
 -SOLID SAWN WOOD FRAMING DESIGN IS BASED ON NO. 1 AND 2 SPRUCE-PINE-FIR FOR RAFTERS, JOISTS, STUDS, WOOD BEAMS, WOOD GIRDERS, ETC., TYP UNO  
 -P.T. SOLID SAWN WOOD FRAMING DESIGN IS BASED ON NO. 2 SOUTHERN YELLOW PINE FOR POSTS, JOISTS, STUDS, WOOD BEAMS, WOOD GIRDERS, ETC., TYP UNO  
 -SOLID SAWN WOOD FRAMING SUBSTITUTION ALLOWED ONLY BY PERMISSION OF ENGINEER OF RECORD.

**FRAMING NOTES**  
 ROOF ONLY  
 RT: OVERFRAME VALLEY (2X10 SLEEPER)  
 NOTES:  
 -ROOF TRUSSES PER MANUFACTURER, TYPICAL UNO  
 -ATTACH ROOF TRUSSES TO DBL TOP PLATE WITH HOLD-DOWN DEVICE PER TRUSS MANU.  
 -CONTRACTOR IS TO VERIFY ALL ROOF PITCHES, OVERHANGS, AND HEEL HEIGHTS PRIOR TO CONSTRUCTION



# CONSTRUCTION SPECIFICATIONS

## GENERAL NOTES

- GN01: CONSTRUCTION SHALL MEET THE REQUIREMENTS OF THE NORTH CAROLINA RESIDENTIAL CODE, 2018 ED. ALL WORK IS TO BE DONE IN STRICT ACCORDANCE WITH STATE AND LOCAL CODES.
- GN02: METHODS, PROCEDURES AND SEQUENCES OF CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO MAINTAIN AND INSURE THE INTEGRITY OF THE STRUCTURE AT ALL STAGES OF CONSTRUCTION.

## DIMENSIONS

DM01: DIMENSIONS SHOWN SHALL GOVERN OVER SCALE ON THESE DRAWINGS.

## DESIGN LOADS

DL01: DESIGN LOADS SHALL CONFORM WITH THE TABLE BELOW

USE	LIVE LOAD (PSF)
UNINHABITABLE ATTIC WITHOUT STORAGE, LESS THAN 42" HEADROOM	20
UNINHABITABLE ATTIC WITH LIMITED STORAGE	10
HABITABLE ATTIC / ATTIC WITH FIXED STAIR ACCESS	30
COMMON AREAS / SLEEPING ROOMS	40
EXTERIOR BALCONIES / DECKS	40
FIRE ESCAPES	40
STAIRS	40
ROOF	20
PASSENGER VEHICLE GARAGE	50
GUARDRAILS AND HANDRAILS	200
GUARDRAIL IN-FILL COMPONENTS	50

- \* A UNIFORMLY DISTRIBUTED DEAD LOAD OF 10 PSF SHALL BE APPLIED TO USE CATEGORIES LISTED ABOVE UNLESS NOTED OTHERWISE.
- \* A UNIFORMLY DISTRIBUTED DEAD LOAD OF 5 PSF SHALL BE APPLIED TO VALETED CEILING AREAS.
- \* THE CONTRACTOR IS RESPONSIBLE FOR INDICATING ON PLANS ALL AREAS REQUIRING A DESIGN FOR INCREASED DEAD LOAD SUCH AS TILED FLOOR AREAS OR SLATE ROOF COVERINGS. FOR ALL AREAS NOT INDICATED ON PLANS, THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THE DEAD LOAD DOES NOT EXCEED THE 10 PSF DESIGN LIMITATION.

- DL02: INTERIOR WALLS 5 PSF LATERAL.
- DL03: BASIC WIND DESIGN VELOCITY,  $V_{ult}(min)$  OF 115 MPH.
- DL04: LOAD DURATION FACTOR FOR ROOF STRUCTURAL MEMBERS IS 1.15.
- DL05: SOIL BEARING CAPACITY 2000 PSF (PRESUMPTIVE).

## WOOD CONSTRUCTION

- WC01: SOLID SAWN WOOD FRAMING DESIGN IS BASED ON NO. 1, NO. 2 SPRUCE PINE FIR FOR JOISTS, RAFTERS, WOOD GIRDERS / BEAMS, ETC. PRESURE TREATED WOOD FRAMING DESIGN IS BASED ON NO. 2 SOUTHERN YELLOW PINE FOR POSTS, JOISTS, RAFTERS, WOOD GIRDERS/BEAMS, ETC.
- WC02: STUDS SHALL BE SPRUCE PINE FIR NO.1 / NO. 2 OR EQUAL TYP UNO.
- WC03: LUMBER IN CONTACT WITH THE GROUND, CONCRETE OR MASONRY SHALL BE PRESSURE TREATED IN ACCORDANCE WITH AWPA STANDARD C-16. ALL OTHER DIPPED LUMBER SHALL BE TREATED IN ACCORDANCE WITH AWPA STANDARD C-2 OR BY ANY METHOD GIVING EQUAL PROTECTION. THE BUILDING CODE OFFICE MAY ALSO APPROVE A NATURAL DECAY RESISTANT WOOD PER SECTION 19-6A1.
- WC04: LAMINATED VENEER LUMBER (LVL) DESIGN IS BASED ON MICROLAM 1.9E MINIMUM DESIGN STRESS VALUES AS FOLLOWS:  $E = 1966$  PSI,  $F_b = 2600$  PSI,  $F_v = 285$  PSI,  $F_c = 750$  PSI.
- WC05: PARALLEL STRAND LUMBER (PSL) DESIGN IS BASED ON PARALLAM 1.9E MINIMUM DESIGN STRESS VALUES AS FOLLOWS:  $E = 1866$  PSI,  $F_b = 2400$  PSI,  $F_v = 190$  PSI,  $F_c = 545$  PSI.
- WC06: LAMINATED STRAND LUMBER (LSL) DESIGN IS BASED ON TIMBERSTRAND 1.9E MINIMUM DESIGN STRESS VALUES AS FOLLOWS:  $E = 1366$  PSI,  $F_b = 1700$  PSI,  $F_v = 425$  PSI,  $F_c = 710$  PSI.
- WC07: SOLID SAWN, LVL, AND PSL BEAMS BEARING ONTO A STUD WALL SHALL BEAR THE FULL WIDTH OF THE SUPPORTING WALL WHEN FRAMED PERPENDICULAR TO THE WALL AND, IN ALL CASES, SHALL BE SUPPORTED ON A GANGED STUD COLUMN SUCH THAT THE GANGED NUMBER OF STUDS IS AT LEAST AS WIDE AS THE BEAM BEING SUPPORTED OR, WHEN FRAMED PARALLEL TO THE WALL, SHALL BEAR ON (2) STUDS MINIMUM FOR SAWN BEAMS AND (3) STUDS MINIMUM FOR LVL AND PSL BEAMS UNO.
- WC08: SINGLE LVL OR SOLID SAWN MEMBERS OF 1.75" OR LESS WIDTH, BEARING ONTO A STUD WALL SHALL BEAR 2" MINIMUM ONTO THE WALL AND SHALL BE SUPPORTED BY (1) ADDITIONAL STUD.
- WC09: SOLID SAWN LUMBER PILES THAT ARE GANGED TO FORM UP TO A (4) PLY A BEAM SHALL HAVE ADJACENT PILES IN THE BEAM FASTENED TOGETHER WITH (2) ROWS OF 10d NAILS @ 16" O.C. INSTALLED ON (1) OUTER SIDE OF A (2) PLY BEAM AND INSTALLED (1) OUTER SIDE AND ON EACH ADJACENT PLY OF A (3) OR MORE GANGED PLY BEAM, TYP UNO.
- WC10: LVL PILES THAT ARE GANGED TO FORM UP TO A (3) PLY BEAM, LESS THAN 16" IN DEPTH, SHALL HAVE ADJACENT PILES IN THE BEAM FASTENED TOGETHER WITH (3) ROWS OF 10d NAILS @ 12" O.C. INSTALLED ON (1) OUTER SIDE OF A (2) PLY BEAM AND INSTALLED ON BOTH OUTER SIDES OF A (3) PLY BEAM. LVL BEAMS 16" DEEP OR GREATER OR (4) OR MORE GANGED PILES SHALL BE FASTENED AS INDICATED ON PLANS.
- WC11: TYPICAL STUD WALL FRAMING SHALL BE 2X4 STUDS SPACED AT 16" O.C. OR, OF A WIDTH, OR SPACING AS INDICATED OTHERWISE ON PLANS. STUD WALLS SHALL BE FRAMED CONTINUOUS, WITHOUT BREAK, ALONG THE HEIGHT OF THE WALL AND SHALL CONSIST OF A SOLE PLATE AT THE BOTTOM OF THE WALL AND A DOUBLE TOP PLATE AT THE TOP OF THE WALL. DISCONTINUITIES IN A STUD WALL SHALL NOT OCCUR EXCEPT AS REQUIRED FOR DOOR OR WINDOW OPENINGS. THE KING STUDS FOR SUCH OPENINGS SHALL BE CONTINUOUS.
- WC12: THE REQUIRED NUMBER OF KING STUDS FOR EXTERIOR HEADERS IN 2X4 STUD WALLS SHALL BE DETERMINED BY NCSCB TABLE 622.3(5)(b) UNLESS NOTED OTHERWISE ON PLANS. FOR 2X6 OR WIDER STUD WALLS THE REQUIRED NUMBER OF KING STUDS FOR EXTERIOR HEADERS WALLS SHALL BE EQUAL TO 1/2 THE AMOUNT OF STUDS AS INDICATED BY THE TABLE LISTED ABOVE.
- WC13: STUDS THAT ARE GANGED TO FORM A LOAD BEARING COLUMN OR A COLUMN TRANSFERRING LOAD FROM ONE FLOOR TO THE NEXT SHALL HAVE ADJACENT STUDS WITHIN THE COLUMN NAILLED TOGETHER WITH (2) ROWS OF 10d NAILS AT 16" O.C. (3) ROWS OF 10d NAILS @ 8" O.C. FOR 2X6 OR 2X10 STUDS). ALL COLUMNS SHALL PROVIDE A CONTINUOUS LOAD PATH DOWN TO THE FOUNDATION OR OTHER ENGINEERED STRUCTURAL ELEMENTS INCLUDING SOLID BLOCKING OF EQUAL WIDTH OF THE COLUMN PROVIDED WITHIN THE DEPTH OF THE FLOOR SYSTEM CAVITY.
- WC14: NAILS SHALL BE COMMON WIRE NAILS TYP UNO.
- WC15: LAG SCREWS SHALL CONFORM TO ANSI/ASME STANDARD B18.21-1981.
- WC16: PILOT HOLES SHALL BE USED FOR LAG SCREW INSTALLATION AND SHALL BE BORED ACCORDING TO MDS SPECIFICATIONS.
- WC17: BOLTS AND LAG SCREWS USED FOR BOLTING WOOD MEMBERS SHALL HAVE STANDARD WASHERS INSTALLED FOR THE NUTS AND BOLT / SCREW HEADS.

## STEEL CONSTRUCTION

- ST01: STRUCTURAL STEEL SHALL MEET THE REQUIREMENTS OF THE AISC SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS.
- ST02: HOLLOW STRUCTURAL SECTIONS (HSS) SHALL CONFORM TO ASTM A500 GRADE C.
- ST03: ALL OTHER STRUCTURAL STEEL SHALL CONFORM TO ASTM A992 MINIMUM GRADE TYP UNO.
- ST04: BOLTS SHALL CONFORM TO ASTM A307 MINIMUM GRADE TYP UNO.
- ST05: WELDING ELECTRODES SHALL BE E70XX.
- ST06: ALL WELDING SHALL BE PERFORMED BY AN AWS CERTIFIED WELDER.
- ST07: REBAR SHALL BE DEFORMED STEEL CONFORMING TO ASTM A615 GRADE 60 TYP UNO.
- ST08: STEEL FLITCH PLATE BEAMS SHALL CONSIST OF A CONTINUOUS STEEL PLATE BOLTED BETWEEN TWO PIECES OF CONTINUOUS LUMBER, PLATE AND LUMBER AS SIZED PER PLANS. BOLT ASSEMBLY TOGETHER USING 1/2" Ø THROUGH BOLTS SPACED AT 24" O.C. STAGGERED TOP TO BOTTOM OF BEAM. MAINTAIN A 2" EDGE DISTANCE. PLACE TWO BOLTS, ONE ABOVE THE OTHER, 6" FROM EACH END OF THE BEAM.
- ST09: ALL STEEL, HSS, AND STEEL FLITCH PLATE BEAMS BEARING ONTO A STUD WALL SHALL BEAR THE FULL WIDTH OF THE SUPPORTING WALL WHEN FRAMED PERPENDICULAR TO THE WALL AND, IN ALL CASES, SHALL BE SUPPORTED ON A GANGED STUD COLUMN SUCH THAT THE GANGED NUMBER OF STUDS IS AT LEAST AS WIDE AS THE BEAM BEING SUPPORTED OR, WHEN FRAMED PARALLEL TO THE WALL, SHALL BEAR ON (2) STUDS MINIMUM UNO.

## MASONRY CONSTRUCTION

- MS01: MASONRY CONSTRUCTION SHALL CONFORM TO THE SPECIFICATIONS OF ACI 530-95, LATEST EDITION.
- MS02: CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C 90 OR ASTM C 55.
- MS03: MORTAR SHALL BE TYPE M OR S CONFORMING TO ASTM C 476.
- MS04: ALL LOAD BEARING MASONRY UNITS SHALL BE LAID IN A RUNNING BOND, TYP.
- MS05: MASONRY PLASTERS SHALL BE BLOCK BONDED TO THE MASONRY WALL IMMEDIATELY ADJACENT, TYP.
- MS06: THE MAXIMUM HEIGHT OF HOLLOW AND SOLID GROUTED MASONRY UNITS USED IN MASONRY PER CONSTRUCTION SHALL CONFORM WITH THE TABLE BELOW

LEAST PER DIMENSION	MAX HEIGHT FOR HOLLOW UNITS	MAX HEIGHT FOR SOLID UNITS
8"	24"	80"
12"	48"	120"
16"	64"	160"
20"	80"	NA
24"	96"	NA

## CONCRETE CONSTRUCTION

- CN01: REINFORCED CAST IN PLACE CONCRETE SHALL BE PROPORTIONED, MIXED AND PLACED IN ACCORDANCE WITH THE SPECIFICATIONS OF ACI 318, LATEST EDITION.
- CN02: ALL CONCRETE, INCLUDING CONCRETE FOR FOOTINGS, IS TO BE CAST IN PLACE, TYP UNO.
- CN03: CAST IN PLACE CONCRETE SHALL BE NORMAL WEIGHT CONCRETE AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS TYP UNO.
- CN04: WHERE CAST IN PLACE CONCRETE WALLS RETAIN A FEET OR MORE OF UNBALANCED FILL, THEY SHALL BE LATERALLY SUPPORTED AT THE TOP AND BOTTOM BEFORE BACKFILLING.

## SUBSTITUTIONS

- SB01: SYNTHETIC POLYPROPYLENE FIBRILLATED MICRO FIBERS, FIBER LENGTH 1 1/2", DOSAGE RATE 1/2 CONSTRUCTION.
- SB02: SOLID SAWN LUMBER SPECIES AND GRADE SUBSTITUTION IS ALLOWED ONLY BY WRITTEN AUTHORIZATION OF SUBSTITUTION BY ENGINEER OR RECORD.
- SB03: ENGINEERED WOOD BEAM AND JOIST SUBSTITUTION IS ALLOWED PROVIDED THAT THE CONTRACTOR OR THE LUMBER SUPPLIER RESPONSIBLE FOR THE SUBSTITUTION PROVIDES DOCUMENTATION AT THE TIME OF INSPECTION DEMONSTRATING THAT THE MATERIAL SUBSTITUTION MEETS OR EXCEEDS THE MINIMUM DESIGN SPECIFICATIONS OF THE ENGINEERED WOOD BEAMS OR JOISTS NOTED ON THE SEALED SET OF ENGINEERED PLANS. IN ALL CASES, THE JOIST SPACING NOTED ON THE SEALED SET OF PLANS IS TO REMAIN THE SAME.
- SB04: ALL OTHER UNAUTHORIZED SUBSTITUTIONS AND / OR DEVIATIONS ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. FAILURE OF THE CONTRACTOR TO CONFORM TO THE STRUCTURAL DRAWINGS SHALL VOID THE ENGINEER'S SEAL AND THE ENGINEER'S LIABILITY UNLESS CHANGES TO THE STRUCTURAL PLANS ARE APPROVED BY THE ENGINEER OF RECORD.

## LEGAL DISCLAIMER / MISCELLANEOUS NOTES

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OKE NICHOLS ENGINEERING, INC DOES NOT PERFORM FENESTRATION, ROOF VENT, OR ATTIC CALCULATIONS OR ANY OTHER AREA CALCULATIONS THAT ARE NOT RELATED TO STRUCTURAL ENGINEERING.

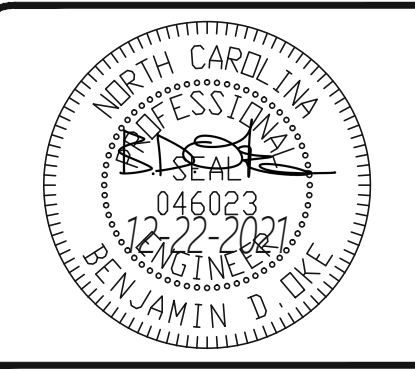
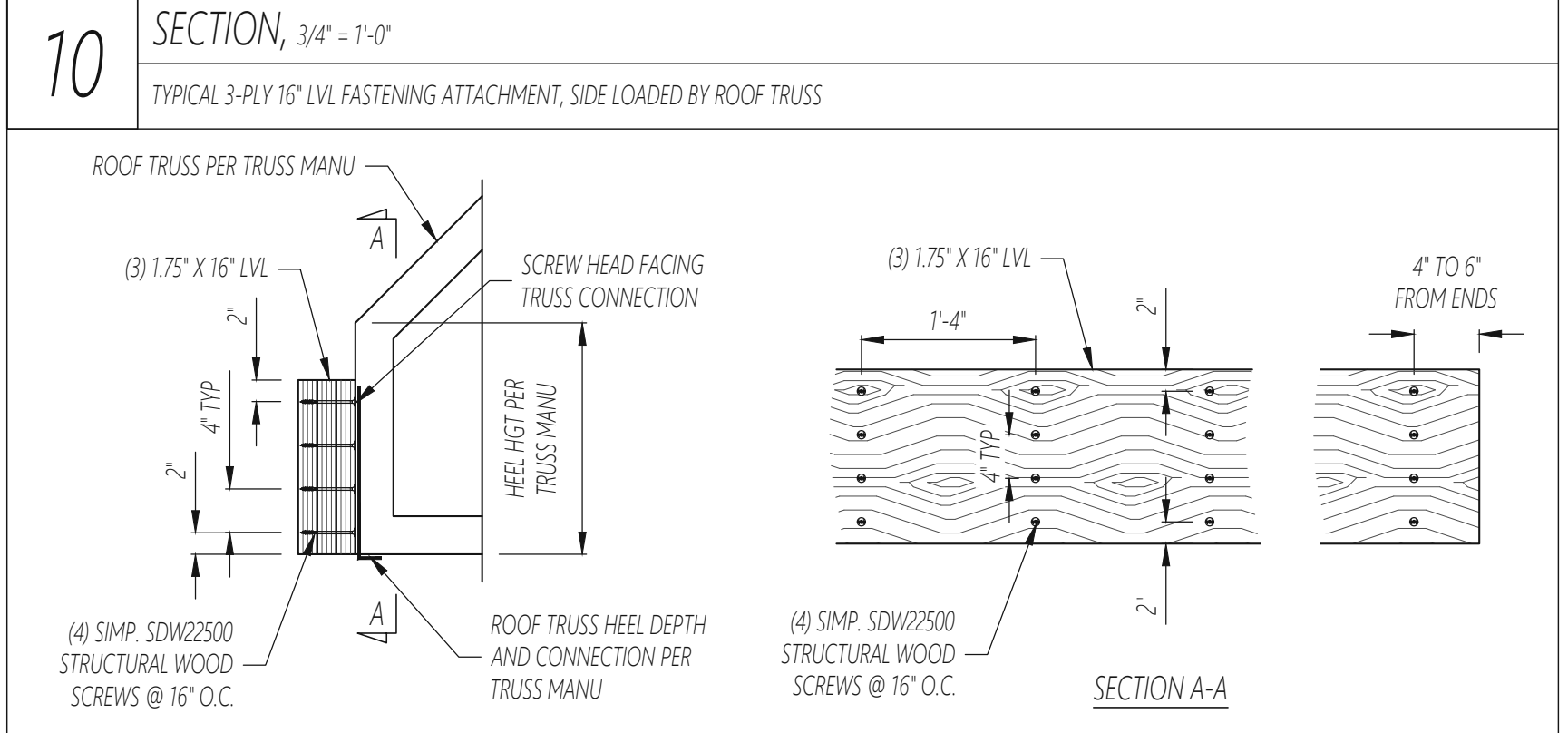
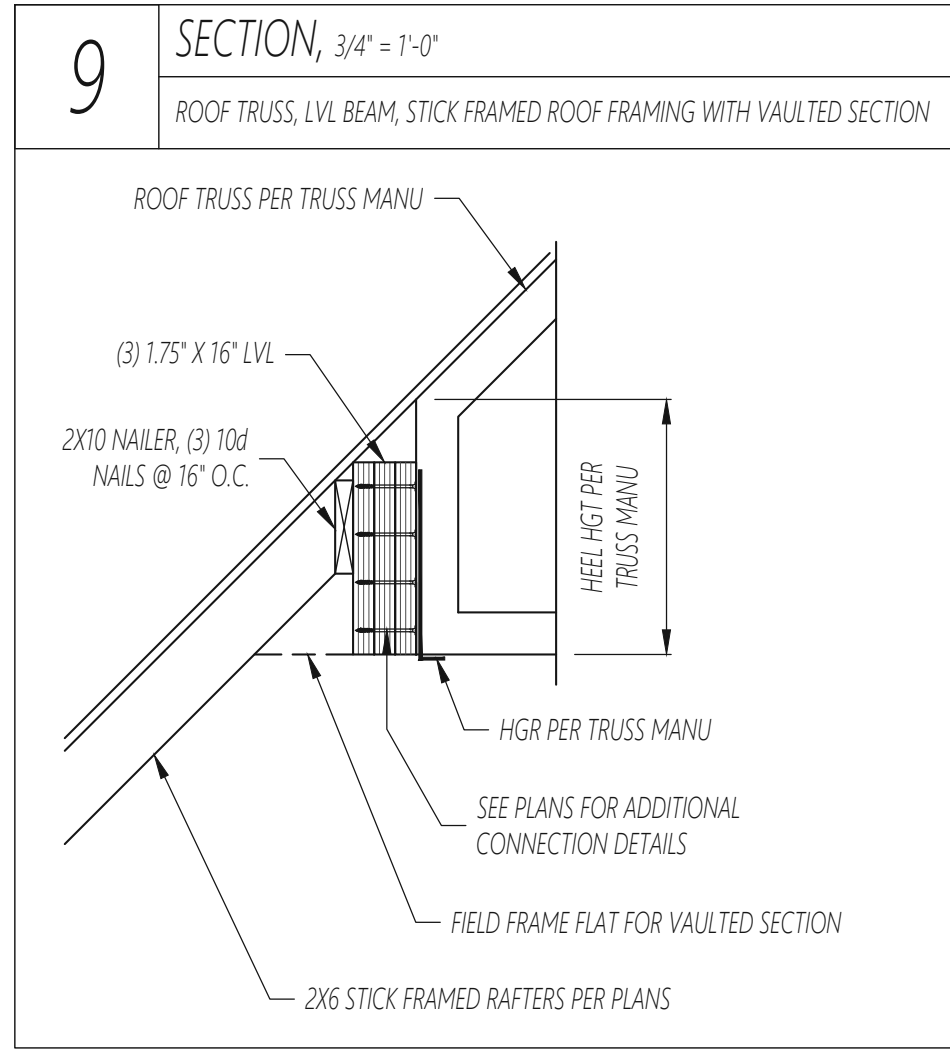
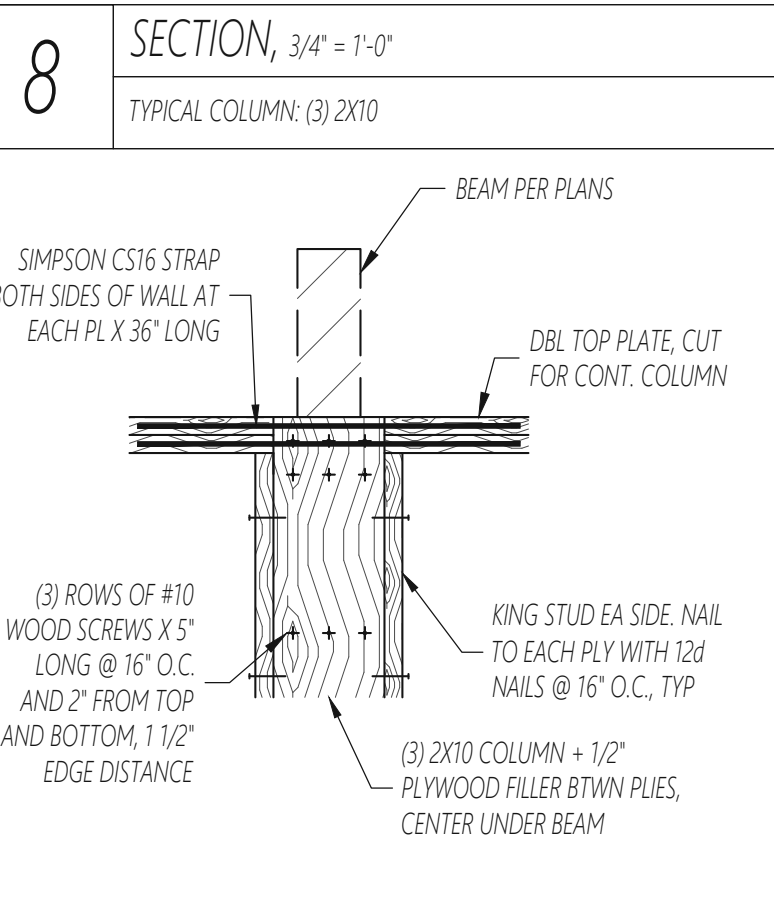
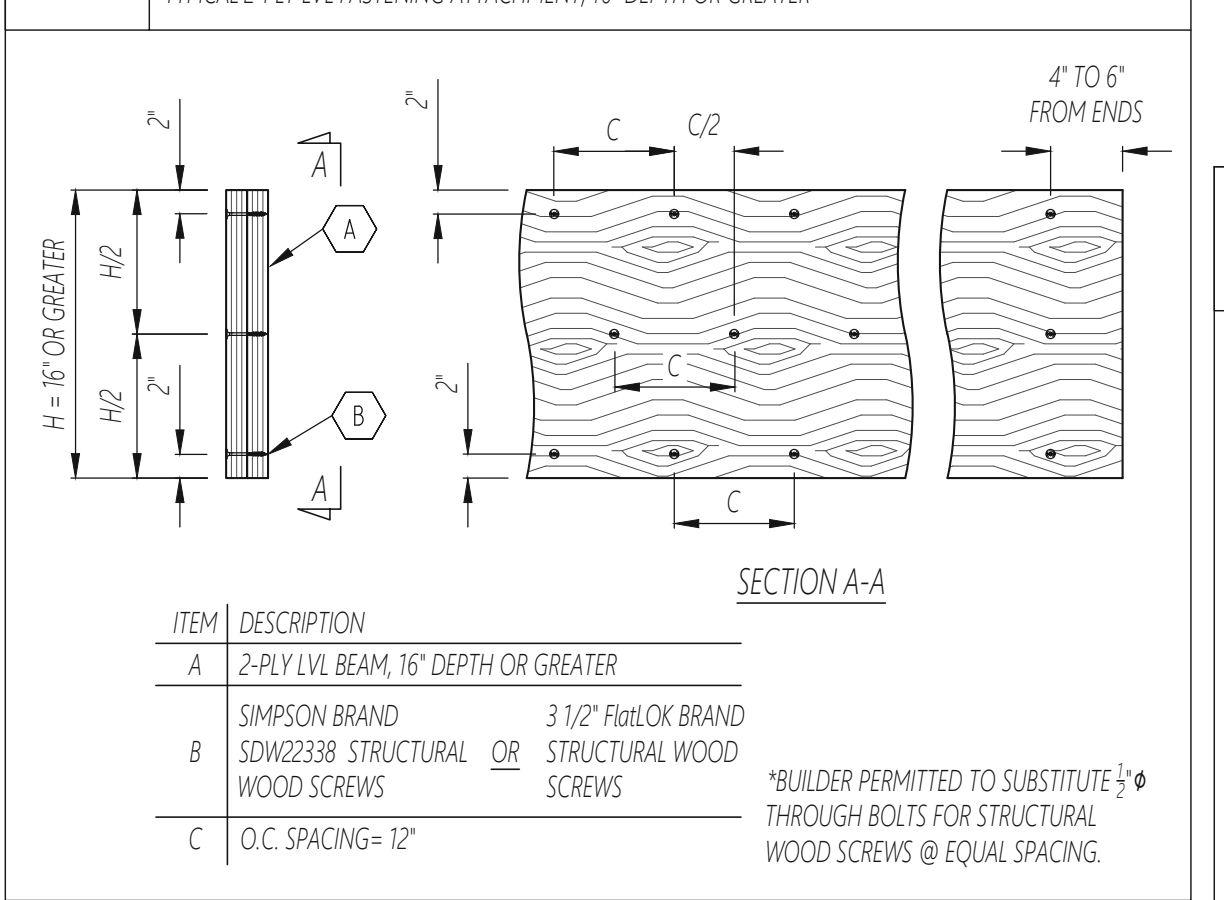
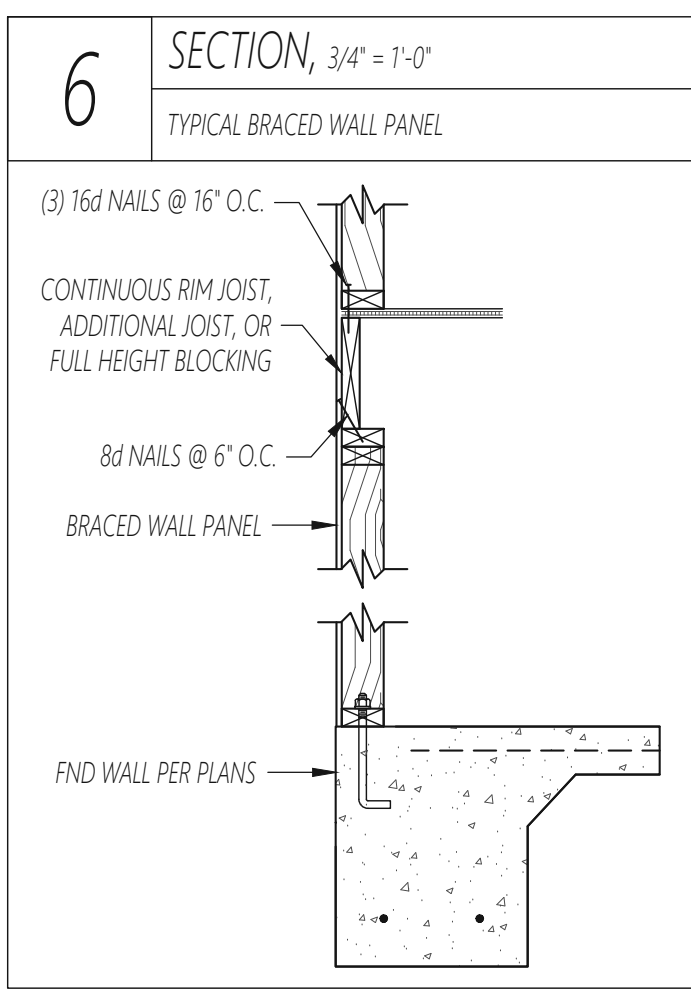
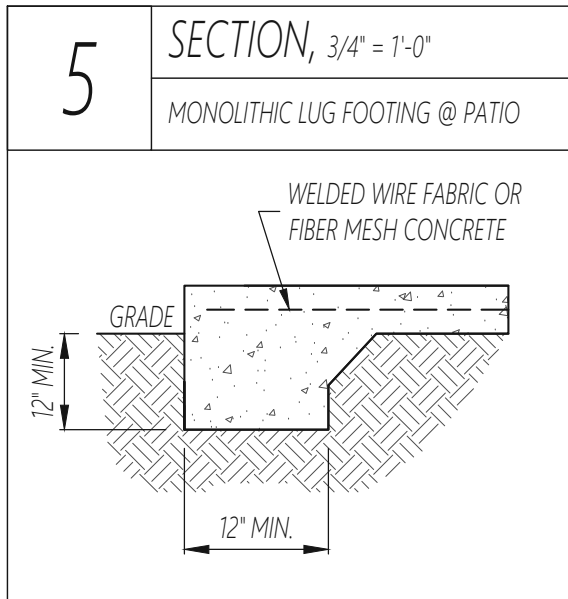
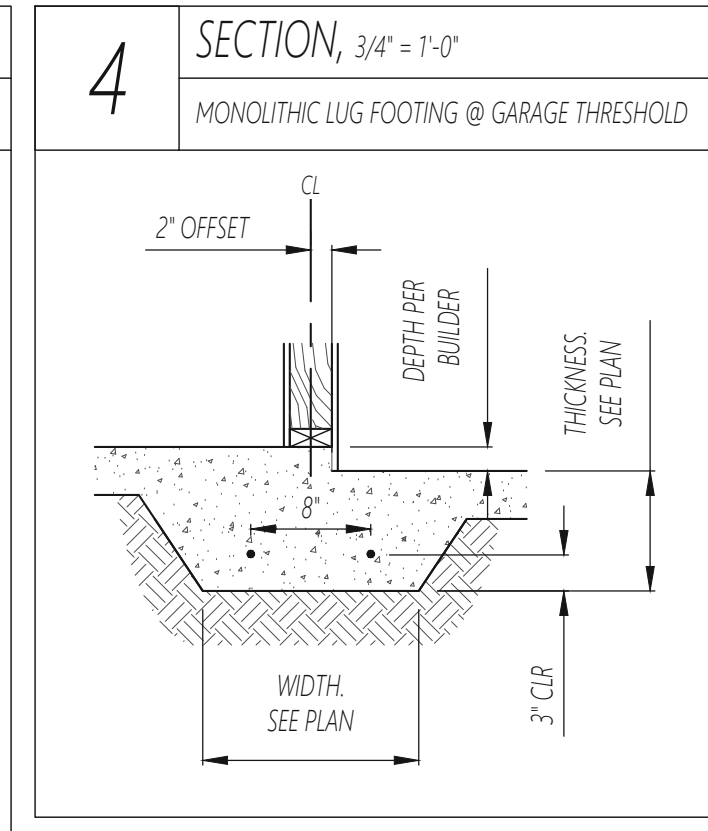
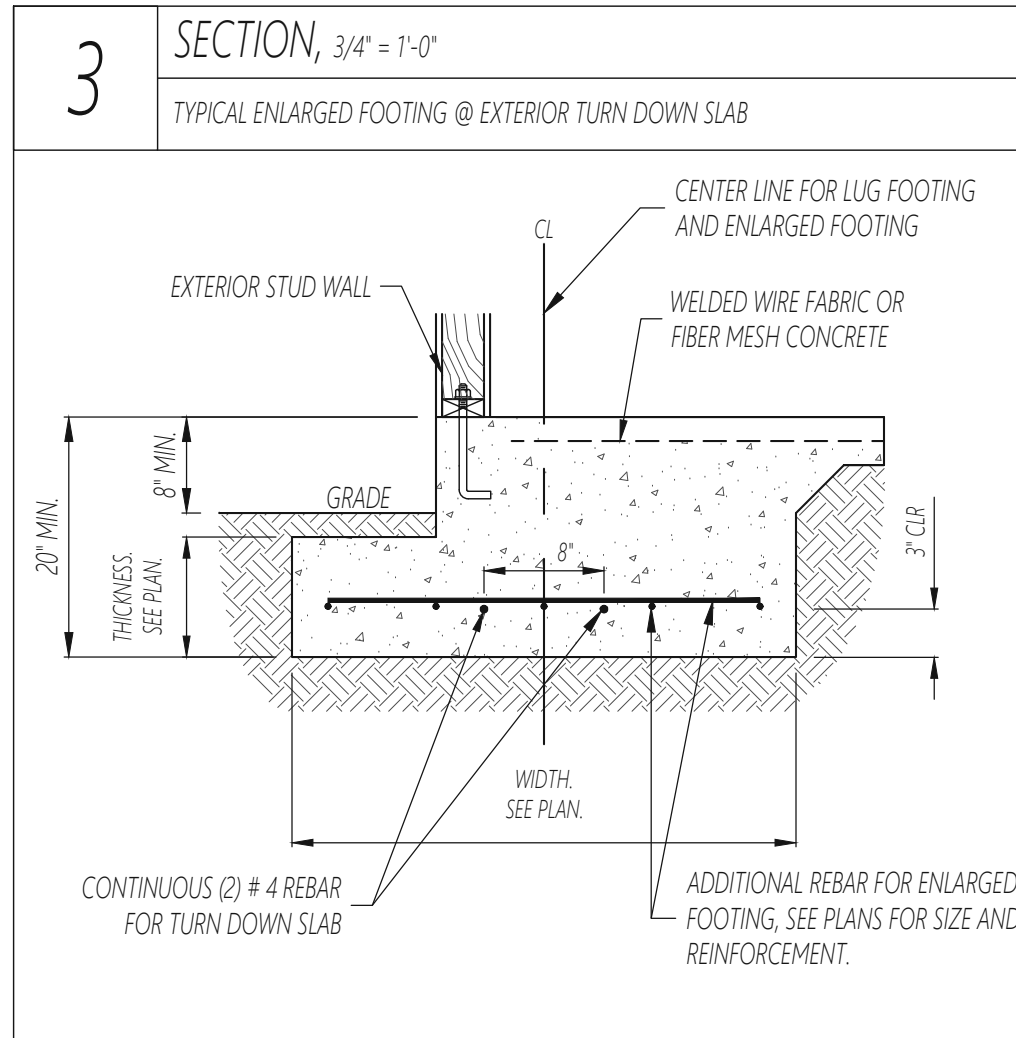
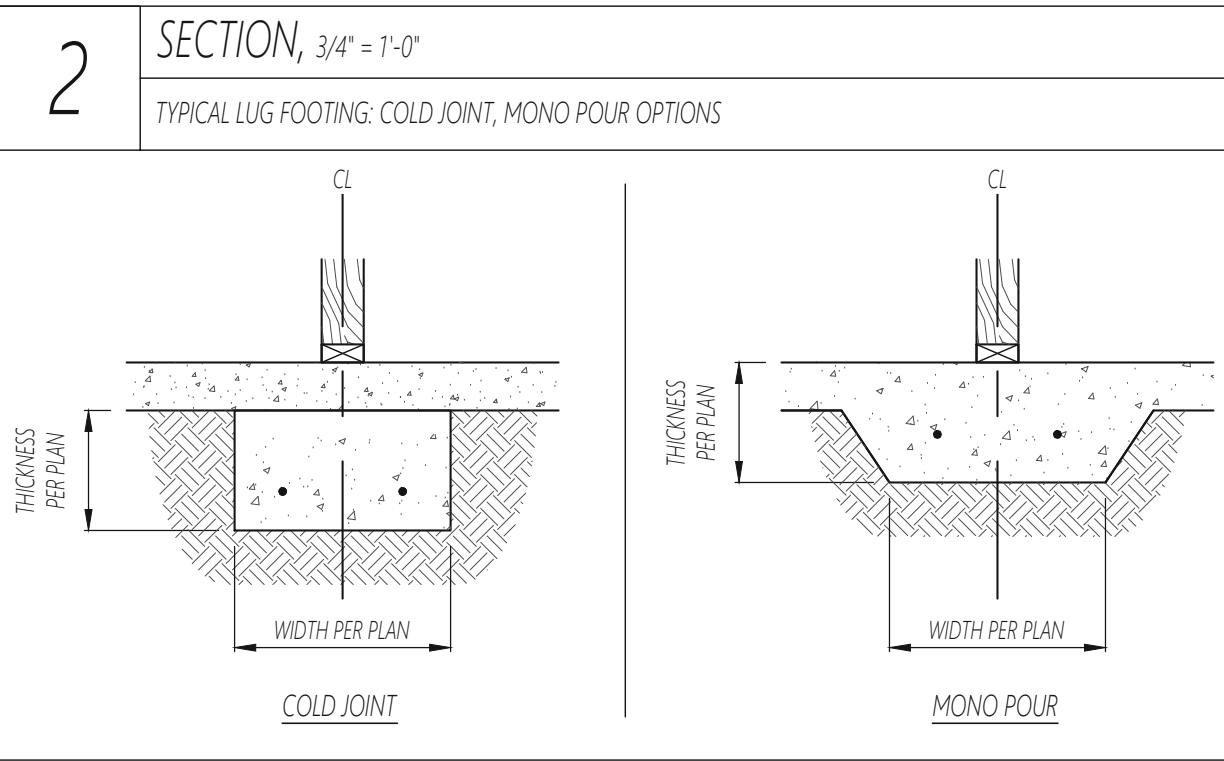
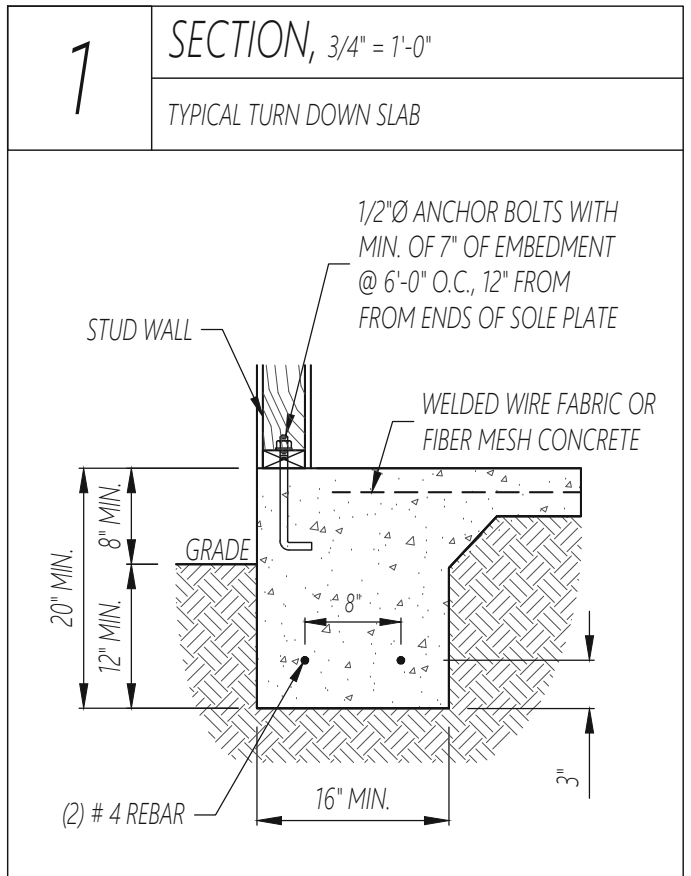
TRUSSES ARE TO BE DESIGNED BY OTHERS AS AN ENGINEER REGISTERED IN NORTH CAROLINA. FINAL TRUSS DRAWING SHOULD BE SUBMITTED TO OKE NICHOLS ENGINEERING, INC FOR REVIEW PRIOR TO CONSTRUCTION.

REVIEW SETS SHALL BE PROVIDED TO THE CLIENT TO ENSURE THAT THE SCOPE OF WORK HAS BEEN COMPLETED IN CONFORMANCE WITH THE CLIENT'S PREFERENCES. CLIENT APPROVAL OF REVIEW SETS SHALL INDICATE THAT THE CLIENT HAS ADEQUATELY REVIEWED THE SET OF DRAWINGS AND ACKNOWLEDGES THAT THE SCOPE OF WORK HAS BEEN COMPLETED TO THE CLIENT'S SATISFACTION. UPON APPROVAL OF REVIEW SETS, THE SEALED SET OF PLANS ARE ISSUED AND SHALL BE CONSIDERED FINALIZED CONSTRUCTION DOCUMENTS.

THE BUILDER IS RESPONSIBLE FOR REVIEWING ALL PLANS PRIOR TO CONSTRUCTION, AND IN THE CASE OF EXISTING CONSTRUCTION, VERIFYING ALL EXISTING CONDITIONS DURING DEMOLITION PRIOR TO CONSTRUCTION.

## COMMON ABBREVIATIONS

ABV	ABOVE	END	FOUNDATION	THK	THICK
BE	BOTH ENDS	FTG	FOOTING	TYP	TYPICAL
BTWN	BETWEEN	HDC	HOT DIPPED GALVANIZED	TRPL	TRIPLE
CJ	CEILING JOIST	HGR	HANGER	TRP	TRIPLE STUD POCKET
CMC	CONCRETE	LVL	LAMINATED VENEER LUMBER	UNO	UNLESS NOTED OTHERWISE
CONT	CONTINUOUS	NO	NUMBER	WF	WIDE FLANGE BEAM
CS	CONTINUOUS SHEATHING	NTS	NOT TO SCALE	XI	EXTRA JOIST
DN	DIAMETER	O.C.	ON CENTER		
DLR	DOUBLE	PSL	PARALLEL STRAND LUMBER		
DI	DOUBLE JOIST	PT	PRESURE TREATED		
DSP	DSL STUD POCKET	RFR	REFERENCE		
E.E.	EACH END	SMP	SIMPSON		
FLR	FLOOR	SQ	SQUARE		



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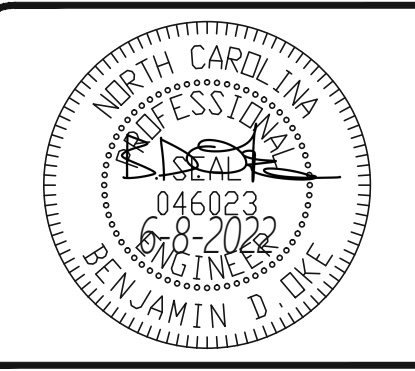
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(919) 916-2930 License No. C-4754

ATMOS BUILDERS  
STRUCTURAL ADDENDUM  
50 TALBERT DRIVE

ENG: BDO  
DATE: 12-22-2021  
REV:

PROJECT NO.  
2110304

SHEET NO.  
SD1  
5 of 5



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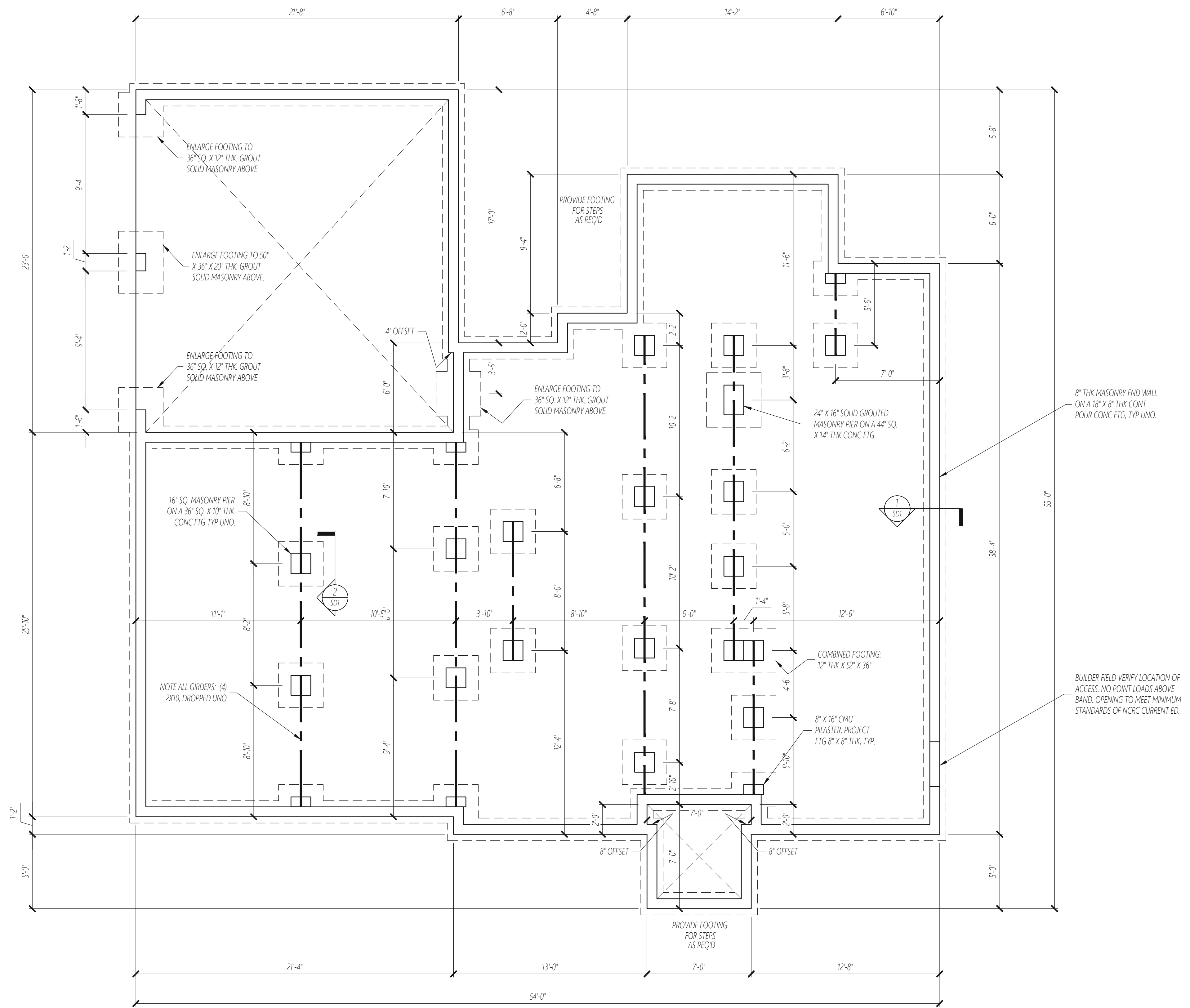
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ATMOS BUILDERS  
 STRUCTURAL ADDENDUM  
 50 TALBERT DRIVE

ENG: BDO  
 DATE: 6-8-2022  
 REV:

PROJECT NO.  
 2210165

SHEET NO.  
 S1  
 1 of 6

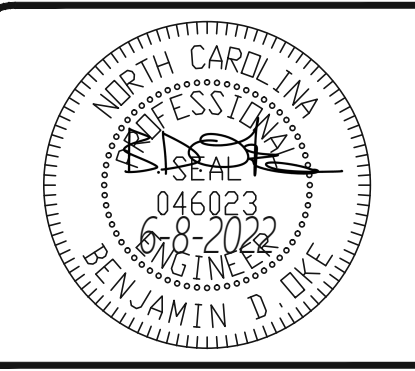


**FOUNDATION PLAN**  
 1/4" = 1'-0"

**COMMON WORD ABBREVIATIONS**  
 -SEE CONSTRUCTION SPECIFICATION FOR LIST OF COMMON WORD ABBREVIATIONS USED ON STRUCTURAL PLANS.

**FOUNDATION NOTES**

- FOUNDATION WALL HEIGHT AND BACKFILL LIMITATIONS ARE TO BE GOVERNED BY THE NCRBC, LATEST EDITION.
- BUILDER IS TO VERIFY WALL THICKNESS, REBAR SIZE, AND REBAR SPACING IF REQUIRED BY WALL HEIGHT AND BACKFILL CONDITIONS.
- EXTERIOR PERIMETER DIMENSIONS ARE ASSUMED TO BE OUT TO OUT OF SHEATHING, BUILDER TO OFFSET SILL PLATE AS REQ'D FOR FRAMING ABV.



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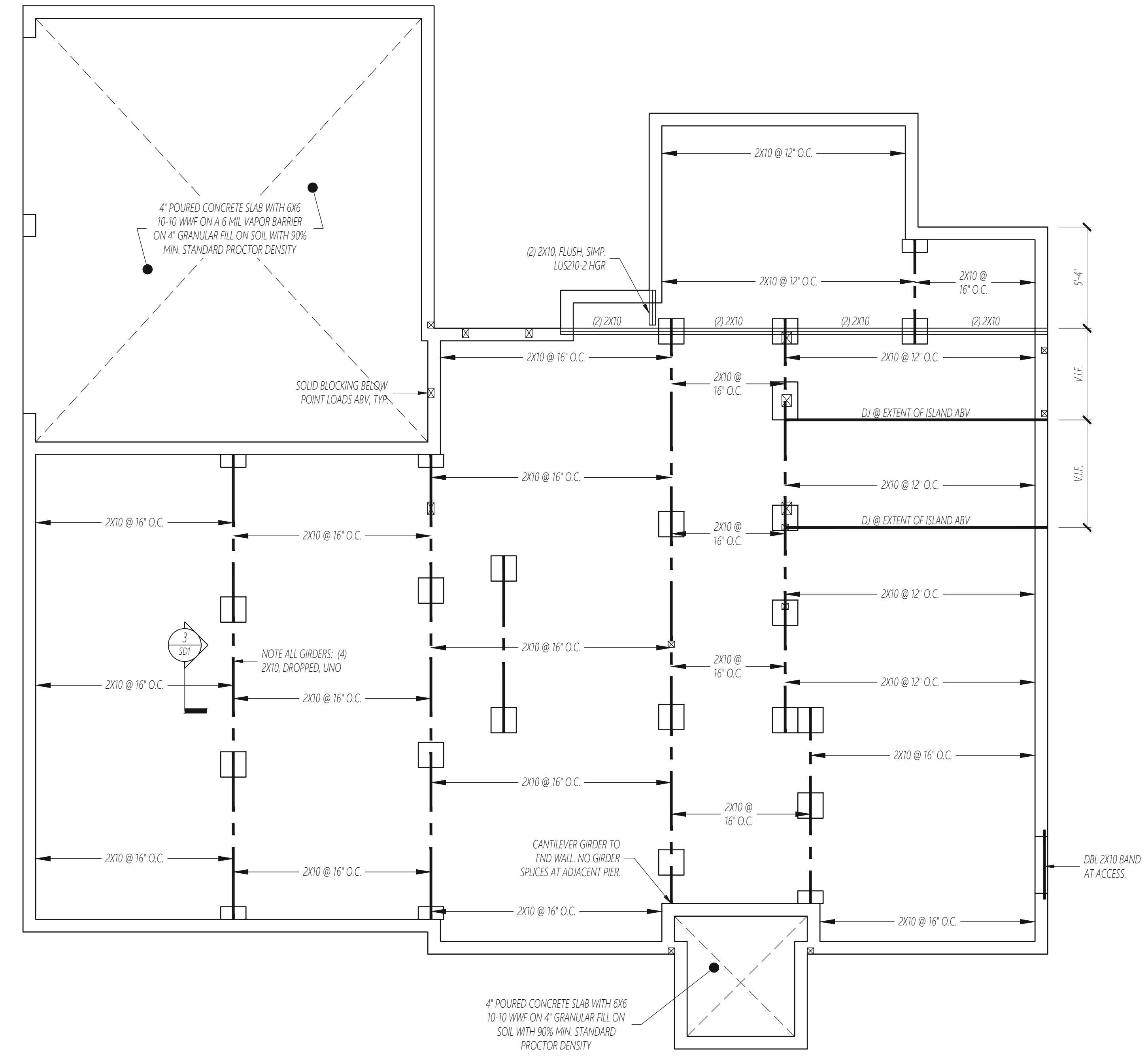
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ATMOS BUILDERS  
 STRUCTURAL ADDENDUM  
 50 TALBERT DRIVE

ENG: BDO  
 DATE: 6-8-2022  
 REV:

PROJECT NO.  
 2210165

SHEET NO.  
 S2  
 2 of 6

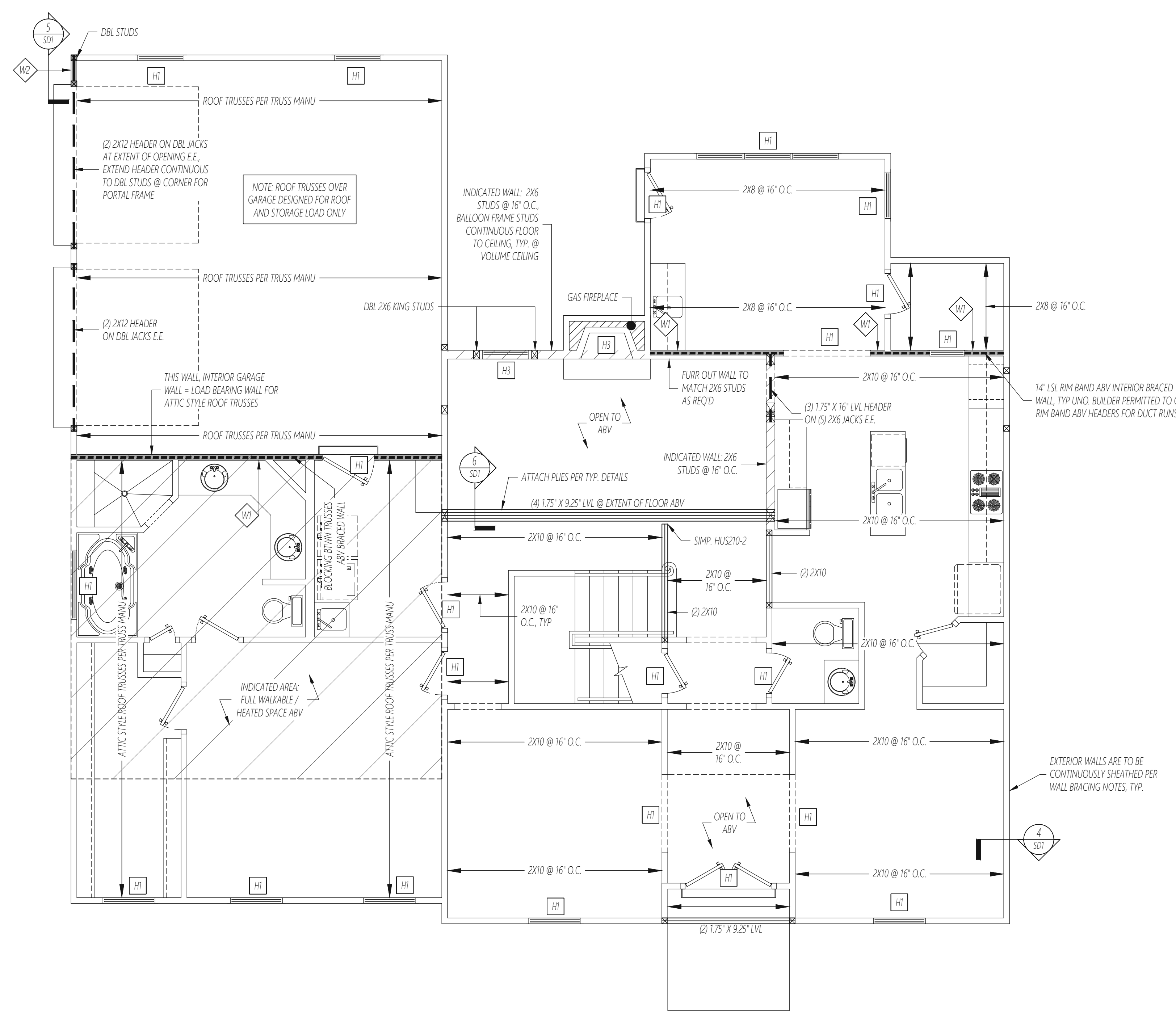


CRAWL SPACE FRAMING PLAN  
 1/4" = 1'-0"

**COMMON WORD ABBREVIATIONS**  
 -SEE CONSTRUCTION SPECIFICATION FOR LIST OF COMMON WORD ABBREVIATIONS USED ON STRUCTURAL PLANS.

**WOOD FRAMING NOTES**  
 ALL FLOORS  
 -SOLID SAWN WOOD FRAMING DESIGN IS BASED ON NO. 1 /NO. 2 SPRUCE-PINE-FIR FOR RAFTERS, JOISTS, STUDS, WOOD BEAMS, WOOD GIRDERS, ETC., TYP UNO.  
 -P.T. SOLID SAWN WOOD FRAMING DESIGN IS BASED ON NO. 2 SOUTHERN YELLOW PINE FOR POSTS, JOISTS, STUDS, WOOD BEAMS, WOOD GIRDERS, ETC., TYP UNO.  
 -SOLID SAWN WOOD FRAMING SUBSTITUTION ALLOWED ONLY BY PERMISSION OF ENGINEER OF RECORD.

**ADDITIONAL JOISTS**  
 -NON-LOAD BEARING WALLS, BUILT-INS, AND CABINETS ON THE FLOOR ABOVE THAT ARE PARALLEL TO THE FRAMING SYSTEM ON THIS SHEET SHALL HAVE AN ADDITIONAL JOIST PLACED BELOW, TYP UNO, BUILDER TO INSTALL AS REQUIRED, FIELD VERIFY DIMENSIONS



1ST FLOOR FRAMING PLAN  
WALLS AND CEILING  
1/4" = 1'-0"

**COMMON WORD ABBREVIATIONS**

-SEE CONSTRUCTION SPECIFICATION FOR LIST OF COMMON WORD ABBREVIATIONS USED ON STRUCTURAL PLANS.

**WOOD FRAMING NOTES**

ALL FLOORS  
-SOLID SAWN WOOD FRAMING DESIGN IS BASED ON NO. 1 /NO. 2 SPRUCE-PINE-FIR FOR RAFTERS, JOISTS, STUDS, WOOD BEAMS, WOOD GIRDERS, ETC., TYP UNO.  
-P.T. SOLID SAWN WOOD FRAMING DESIGN IS BASED ON NO. 2 SOUTHERN YELLOW PINE FOR POSTS, JOISTS, STUDS, WOOD BEAMS, WOOD GIRDERS, ETC., TYP UNO.  
-SOLID SAWN WOOD FRAMING SUBSTITUTION ALLOWED ONLY BY PERMISSION OF ENGINEER OF RECORD.

**ADDITIONAL JOISTS**

-NON-LOAD BEARING WALLS, BUILT-INS, AND CABINERY ON THE FLOOR ABOVE THAT ARE PARALLEL TO THE FRAMING SYSTEM ON THIS SHEET SHALL HAVE AN ADDITIONAL JOIST PLACED BELOW, TYP UNO, BUILDER TO INSTALL AS REQUIRED, FIELD VERIFY DIMENSIONS

**NO. OF STUDS FOR BEAM SUPPORT**

ALL FLOORS		
BEAM TYPE	NO. OF STUDS AT E.E. OF BEAM, TYP UNO	
SAWN (2)-PLY SAWN BEAM	2	
(3)-PLY SAWN BEAM	3	
(2)-PLY LVL BEAM	3	
(3)-PLY LVL BEAM	4	
(4)-PLY LVL BEAM	5	

NOTES:  
-SINGLE PLY LVL BEAMS AND JOISTS TO BE SUPPORT BY SINGLE STUD AT EACH END, TYP.  
-WHERE BEAMS BEAR PARALLEL TO WALL, BEARING LENGTH OF BEAM AND NO. OF STUDS TO EXTEND ALONG LENGTH OF WALL IN PARALLEL DIRECTION, TYP UNO.

**HEADER SCHEDULE**

THIS FLOOR ONLY

H1:	(2) 2X10 ON (1) JACK E.E.
H2:	(2) 1.75" X 9.25" LVL ON (2) JACKS E.E.
H3:	(3) 2X10'S ON (1) 2X6 JACK E.E.
H4:	(3) 1.75" X 9.25" LVL'S ON (2) 2X6 JACKS E.E.

NOTES:  
-HEADERS IN NON LOAD BEARING INTERIOR WALLS ARE NOT LABELED AND SHALL BE FRAMED ACCORDING TO ACCEPTED CONSTRUCTION PRACTICE.

**KING STUD SCHEDULE**

EXTERIOR WALLS ONLY, ALL FLOORS

MAX OPENING DIMENSION	NO. KING STUDS E.E. 2X4 WALL	NO. KING STUDS E.E. 2X6 WALL
≤3'	1	1
4'	2	1
8'	3	2
12'	5	2
16'	6	3
18'	7	4

NOTES:  
-NO. OF KING STUDS LISTED ABOVE BASED ON A 10' NOMINAL WALL HEIGHT AND 16" O.C. STUD SPACING.  
-SPANS BASED ON ROUGH OPENINGS. FOR SPANS BTWN DIMENSIONS LISTED ABOVE ROUND UP FOR NO. OF KING STUDS UNO.

**WALL BRACING**

THIS FLOOR ONLY  
ALL EXTERIOR STUD WALLS ARE TO BE BRACED WITH CONTINUOUSLY SHEATHED WOOD STRUCTURAL PANELING (METHOD CS-WSP), 3/8" MINIMUM THICKNESS, NAILED TO STUDS WITH 8d NAILS @ 6" O.C. AT PANEL EDGES, AND 12" O.C. IN PANEL FIELD.

ALL BRACED WALLS SHALL BE SECURED WITH A CONTINUOUS RIM JOIST, ADDITIONAL JOIST, OR FULL HEIGHT BLOCKING ABOVE AND BELOW BRACED WALL PANEL. JOIST / BLOCKING SHALL BE ATTACHED WITH 8d TOENAILS @ 6" O.C. ALONG TOP OF WALL AND (3) 16d NAILS @ 16" O.C. ALONG BOTTOM OF WALL. HORIZONTAL BLOCKING IS REQUIRED AT PANEL JOINTS IN BRACED WALL PANELS.

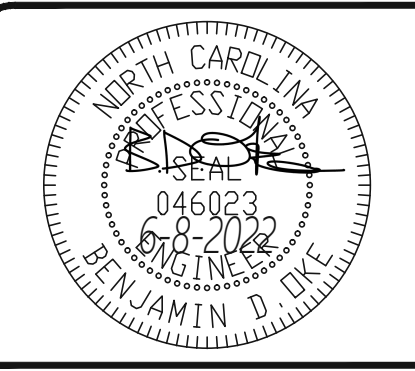
EXTERIOR BRACED WALLS:  
-CONTINUOUS PERIMETER SHEATHING = 234'

SHADED WALLS = INTERIOR BRACED WALLS AND EXTERIOR WALLS WITH ALTERNATIVE BRACING METHODS

W1 - INTERIOR BRACED WALL WITH GYPSUM BOARD, 1/2" GB BOTH SIDES OF WALL ATTACHED TO PANEL EDGES, INCLUDING TOP AND BOTTOM PLATES, AT 7" O.C.

W2 - PORTAL FRAME WHERE INDICATED. SEE DETAILS FOR CONSTRUCTION SPECIFICATIONS. SHATH WALLS @ PORTAL FRAME WITH 7/16" MIN. THICKNESS WOOD STRUCTURAL PANELING.

NOTES:  
-WALL BRACING SHALL BE INSTALLED TO BE IN ACCORDANCE WITH SECT. R602.10.3 OF THE 2018 NRC.  
-WHERE A BUILDING OR PORTIONS THEREOF DOES NOT COMPLY WITH SECT. R602.10.3, ALTERNATIVE METHODS OF BRACING HAVE BEEN DESIGNED IN ACCORDANCE TO ENGINEERING DESIGN PER SECT. R602.10.5 OF THE 2018 NRC.



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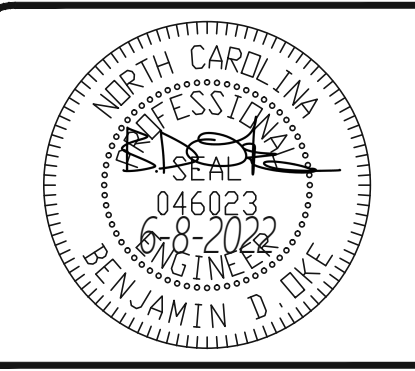
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2301 Stonehenge Dr., Suite 202, Raleigh, NC, 27615  
(919) 916-3200 License No. C-4754

ATMOS BUILDERS  
STRUCTURAL ADDENDUM  
50 TALBERT DRIVE

ENG:	BDO
DATE:	6-8-2022
REV:	

PROJECT NO.	2210165
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SHEET NO.	S3
	3 of 6



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ATMOS BUILDERS  
 STRUCTURAL ADDENDUM  
 50 TALBERT DRIVE

ENG: BDO  
 DATE: 6-8-2022  
 REV:

PROJECT NO.  
 2210165

SHEET NO.  
 S4  
 4 of 6

**COMMON WORD ABBREVIATIONS**

-SEE CONSTRUCTION SPECIFICATION FOR LIST OF COMMON WORD ABBREVIATIONS USED ON STRUCTURAL PLANS.

**WOOD FRAMING NOTES**

ALL FLOORS  
 -SOLID SAWN WOOD FRAMING DESIGN IS BASED ON NO. 1 / NO. 2 SPRUCE-PINE-FIR FOR RAFTERS, JOISTS, STUDS, WOOD BEAMS, WOOD GIRDERS, ETC., TYP UNO.  
 -P.T. SOLID SAWN WOOD FRAMING DESIGN IS BASED ON NO. 2 SOUTHERN YELLOW PINE FOR POSTS, JOISTS, STUDS, WOOD BEAMS, WOOD GIRDERS, ETC., TYP UNO.  
 -SOLID SAWN WOOD FRAMING SUBSTITUTION ALLOWED ONLY BY PERMISSION OF ENGINEER OF RECORD.

**NO. OF STUDS FOR BEAM SUPPORT**

ALL FLOORS

BEAM TYPE	NO. OF STUDS AT E.E. OF BEAM, TYP UNO
SAWN (2)-PLY SAWN BEAM	2
(3)-PLY SAWN BEAM	3
(2)-PLY LVL BEAM	3
(3)-PLY LVL BEAM	4
(4)-PLY LVL BEAM	5

NOTES:  
 -SINGLE PLY LVL BEAMS AND XIS TO BE SUPPORT BY SINGLE STUD AT EACH END, TYP.  
 -WHERE BEAMS BEAR PARALLEL TO WALL, BEARING LENGTH OF BEAM AND NO. OF STUDS TO EXTEND ALONG LENGTH OF WALL IN PARALLEL DIRECTION, TYP UNO.

**HEADER SCHEDULE**

THIS FLOOR ONLY

H1: (2) 2X10 ON (1) JACK E.E.  
 H2: (2) 1.75" X 9.25" LVL ON (2) JACKS E.E.  
 H3: (3) 2X10'S ON (1) 2X6 JACK E.E.  
 H4: (3) 1.75" X 9.25" LVL'S ON (2) 2X6 JACKS E.E.

NOTES:  
 -HEADERS IN NON LOAD BEARING INTERIOR WALLS ARE NOT LABELED AND SHALL BE FRAMED ACCORDING TO ACCEPTED CONSTRUCTION PRACTICE.

**KING STUD SCHEDULE**

EXTERIOR WALLS ONLY, ALL FLOORS

MAX OPENING DIMENSION	NO. KING STUDS E.E. 2X4 WALL	NO. KING STUDS E.E. 2X6 WALL
≤3'	1	1
4'	2	1
8'	3	2
12'	5	2
16'	6	3
18'	7	4

NOTES:  
 -NO. OF KINGS STUDS LISTED ABOVE BASED ON A 10' NOMINAL WALL HEIGHT AND 16" O.C. STUD SPACING.  
 -SPANS BASED ON ROUGH OPENINGS. FOR SPANS BTWN DIMENSIONS LISTED ABOVE ROUND UP FOR NO. OF KING STUDS UNO.

**WALL BRACING**

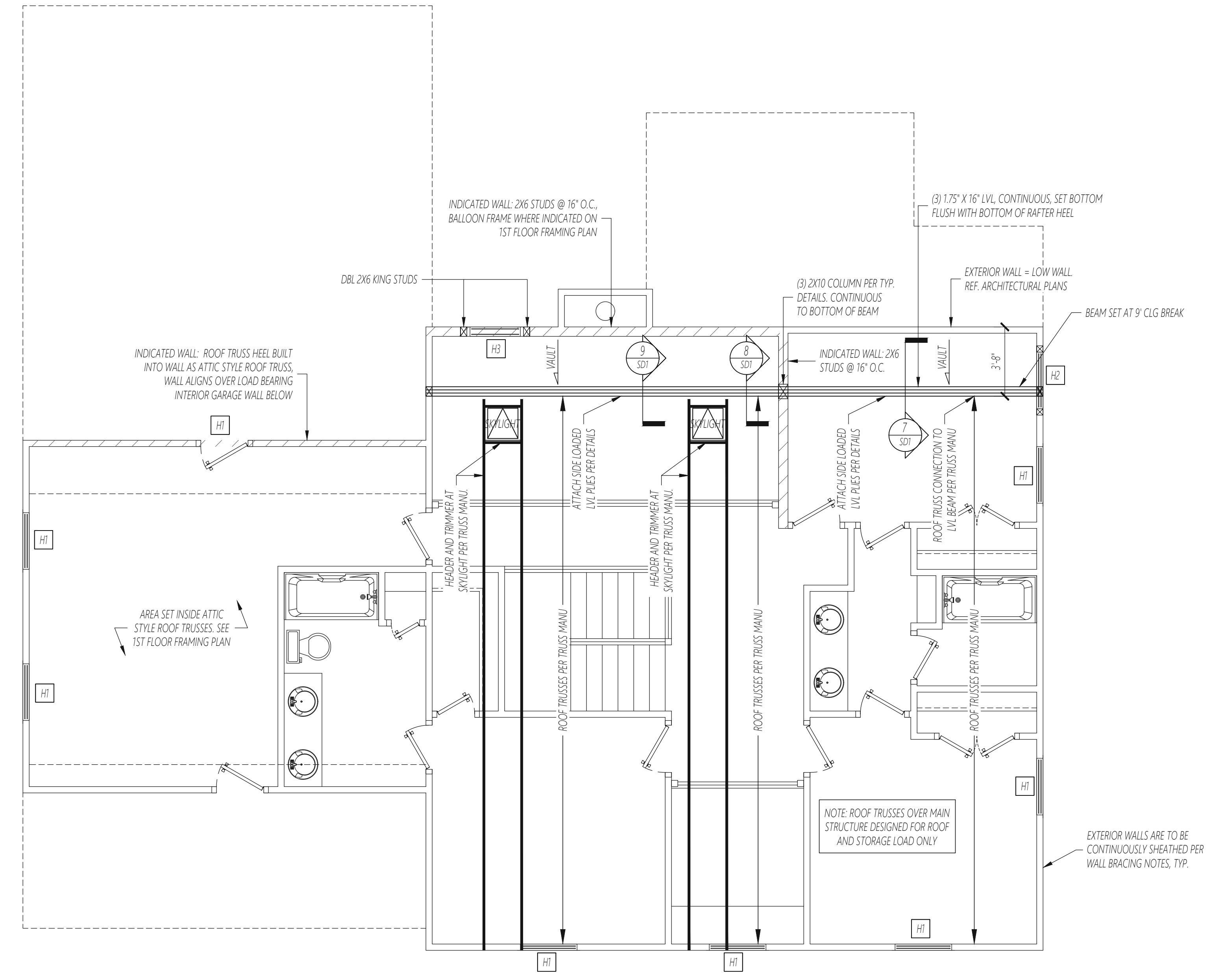
THIS FLOOR ONLY

ALL EXTERIOR STUD WALLS ARE TO BE BRACED WITH CONTINUOUSLY SHEATHED WOOD STRUCTURAL PANELING (METHOD CS-HSP), 3/8" MINIMUM THICKNESS, NAILED TO STUDS WITH 8D NAILS @ 6" O.C. AT PANEL EDGES, AND 12" O.C. IN PANEL FIELD.

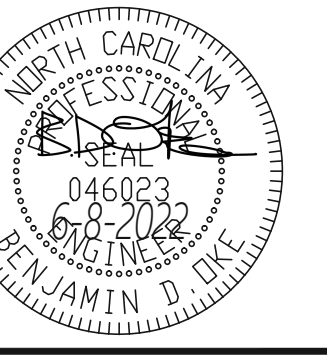
ALL BRACED WALLS SHALL BE SECURED WITH A CONTINUOUS RIM JOIST, ADDITIONAL JOIST, OR FULL HEIGHT BLOCKING ABOVE AND BELOW BRACED WALL PANEL. JOIST / BLOCKING SHALL BE ATTACHED WITH 8D TOENAILS @ 6" O.C. ALONG TOP OF WALL AND (3) 16D NAILS @ 16" O.C. ALONG BOTTOM OF WALL. HORIZONTAL BLOCKING IS REQUIRED AT PANEL JOINTS IN BRACED WALL PANELS.

EXTERIOR BRACED WALLS:  
 -CONTINUOUS PERIMETER SHEATHING = 112'

NOTES:  
 -WALL BRACING SHALL BE INSTALLED TO BE IN ACCORDANCE WITH SECT. R602.10.3 OF THE 2018 N.C.R.C.  
 -WHERE A BUILDING OR PORTIONS THEREOF DOES NOT COMPLY WITH SECT. R602.10.3, ALTERNATIVE METHODS OF BRACING HAVE BEEN DESIGNED IN ACCORDANCE TO ENGINEERING DESIGN PER SECT. R602.10.5 OF THE 2018 N.C.R.C.



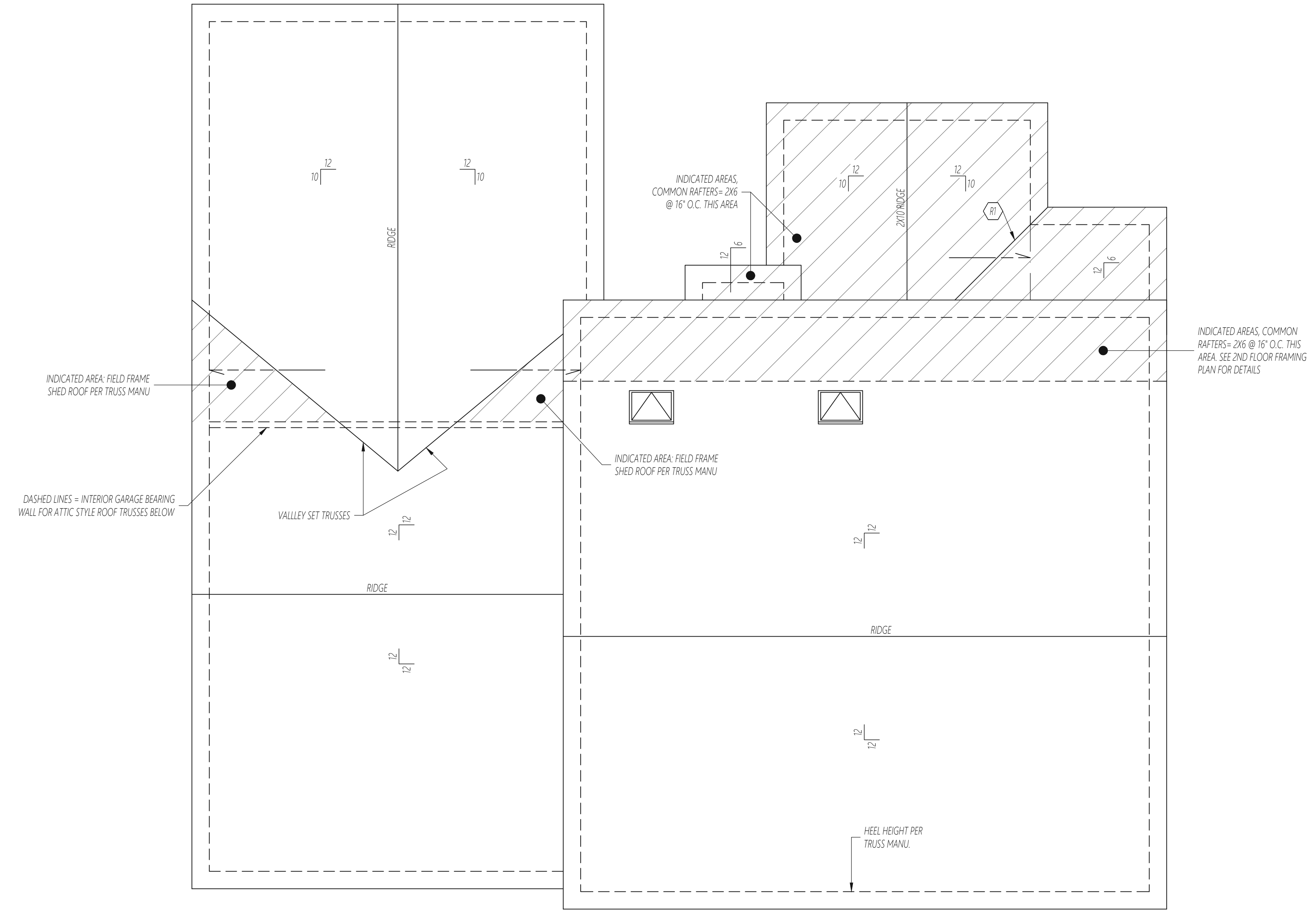
**2ND FLOOR FRAMING PLAN**  
 WALLS AND CEILING  
 1/4" = 1'-0"



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ATMOS BUILDERS  
 STRUCTURAL ADDENDUM  
 50 TALBERT DRIVE



**ROOF FRAMING PLAN**  
 1/4" = 1'-0"

**COMMON WORD ABBREVIATIONS**  
 -SEE CONSTRUCTION SPECIFICATION FOR LIST OF COMMON WORD ABBREVIATIONS USED ON STRUCTURAL PLANS.

**WOOD FRAMING NOTES**  
 ALL FLOORS  
 -SOLID SAWN WOOD FRAMING DESIGN IS BASED ON NO. 1 AND 2 SPRUCE-PINE-FIR FOR RAFTERS, JOISTS, STUDS, WOOD BEAMS, WOOD GIRDERS, ETC., TYP UNO.  
 -P.T. SOLID SAWN WOOD FRAMING DESIGN IS BASED ON NO. 2 SOUTHERN YELLOW PINE FOR POSTS, JOISTS, STUDS, WOOD BEAMS, WOOD GIRDERS, ETC., TYP UNO.  
 -SOLID SAWN WOOD FRAMING SUBSTITUTION ALLOWED ONLY BY PERMISSION OF ENGINEER OF RECORD.

**FRAMING NOTES**  
 ROOF ONLY  
 RT: OVERFRAME VALLEY (2X10 SLEEPER)  
 NOTES:  
 -ROOF TRUSSES PER MANUFACTURER, TYPICAL UNO  
 -ATTACH ROOF TRUSSES TO DBL TOP PLATE WITH HOLD-DOWN DEVICE PER TRUSS MANU.  
 -CONTRACTOR IS TO VERIFY ALL ROOF PITCHES, OVERHANGS, AND HEEL HEIGHTS PRIOR TO CONSTRUCTION

ENG: BDO  
 DATE: 6-8-2022  
 REV:

PROJECT NO.  
 2210165

SHEET NO.  
 S5  
 5 of 6

# CONSTRUCTION SPECIFICATIONS

## GENERAL NOTES

- GN01: CONSTRUCTION SHALL MEET THE REQUIREMENTS OF THE NORTH CAROLINA RESIDENTIAL CODE, 2018 ED. ALL WORK IS TO BE DONE IN STRICT ACCORDANCE WITH STATE AND LOCAL CODES.
- GN02: METHODS, PROCEDURES AND SEQUENCES OF CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO MAINTAIN AND INSURE THE INTEGRITY OF THE STRUCTURE AT ALL STAGES OF CONSTRUCTION.

## DIMENSIONS

DM01: DIMENSIONS SHOWN SHALL GOVERN OVER SCALE ON THESE DRAWINGS.

## DESIGN LOADS

DL01: DESIGN LOADS SHALL CONFORM WITH THE TABLE BELOW

USE	LIVE LOAD (PSF)
UNINHABITABLE ATTIC WITHOUT STORAGE, LESS THAN 42" HEADROOM	10
UNINHABITABLE ATTIC WITH LIMITED STORAGE	20
HABITABLE ATTIC / ATTIC WITH FIXED STAIR ACCESS	30
COMMON AREAS / SLEEPING ROOMS	40
EXTERIOR BALCONIES / DECKS	40
FIRE ESCAPES	40
STAIRS	40
ROOF	20
PASSENGER VEHICLE GARAGE	50
GUARDRAILS AND HANDRAILS	200
GUARDRAIL IN-FILL COMPONENTS	50

- \* A UNIFORMLY DISTRIBUTED DEAD LOAD OF 10 PSF SHALL BE APPLIED TO USE CATEGORIES LISTED ABOVE UNLESS NOTED OTHERWISE.
- \* A UNIFORMLY DISTRIBUTED DEAD LOAD OF 5 PSF SHALL BE APPLIED TO VALUED CEILING AREAS.
- \* THE CONTRACTOR IS RESPONSIBLE FOR INDICATING ON PLANS ALL AREAS REQUIRING A DESIGN FOR INCREASED DEAD LOAD SUCH AS TILED FLOOR AREAS OR SLATE ROOF COVERINGS. FOR ALL AREAS NOT INDICATED ON PLANS, THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THE DEAD LOAD DOES NOT EXCEED THE 10 PSF DESIGN LIMITATION.

- DL02: INTERIOR WALLS 5 PSF LATERAL.
- DL03: BASIC WIND DESIGN VELOCITY,  $V_{ultimate}$  OF 115 MPH.
- DL04: LOAD DURATION FACTOR FOR ROOF STRUCTURAL MEMBERS IS 1.15.
- DL05: SOIL BEARING CAPACITY 2000 PSF (PRESUMPTIVE).

## WOOD CONSTRUCTION

- WC01: SOLID SAWN WOOD FRAMING DESIGN IS BASED ON NO. 1, 1/2 SPRUCE PINE FIR FOR JOISTS, RAFTERS, WOOD GIRDERS / BEAMS, ETC. PRESSURE TREATED WOOD FRAMING DESIGN IS BASED ON NO. 2 SOUTHERN YELLOW PINE FOR POSTS, JOISTS, RAFTERS, WOOD GIRDERS / BEAMS, ETC.
- WC02: STUDS SHALL BE SPRUCE PINE FIR NO.1 / NO. 2 OR EQUAL TYP. UNO.
- WC03: LUMBER IN CONTACT WITH THE GROUND, CONCRETE OR MASONRY SHALL BE PRESSURE TREATED IN ACCORDANCE WITH AWPA STANDARD C-16. ALL OTHER DRY-SPUN LUMBER SHALL BE TREATED IN ACCORDANCE WITH AWPA STANDARD C-2 OR BY ANY METHOD GIVING EQUAL PROTECTION. THE BUILDING CODE OFFICE MAY ALSO APPROVE A NATURAL DECAY RESISTANT WOOD PER SECTION 19-6A1.
- WC04: LAMINATED VENEER LUMBER (LVL) DESIGN IS BASED ON MICROLAM 1.0E MINIMUM DESIGN STRESS VALUES AS FOLLOWS: E=1966 PSI, Fb=2600 PSI, Fv=285 PSI, Fc=750 PSI.
- WC05: PARALLEL STRAND LUMBER (PSL) DESIGN IS BASED ON PARALAM 1.0E MINIMUM DESIGN STRESS VALUES AS FOLLOWS: E=1866 PSI, Fb=2400 PSI, Fv=190 PSI, Fc=545 PSI.
- WC06: LAMINATED STRAND LUMBER (LSL) DESIGN IS BASED ON TIMBERSTRAND 1.0E MINIMUM DESIGN STRESS VALUES AS FOLLOWS: E=1389 PSI, Fb=1700 PSI, Fv=425 PSI, Fc=710 PSI.
- WC07: SOLID SAWN, LVL, AND PSL BEAMS BEARING ONTO A STUD WALL SHALL BEAR THE FULL WIDTH OF THE SUPPORTING WALL WHEN FRAMED PERPENDICULAR TO THE WALL AND, IN ALL CASES, SHALL BE SUPPORTED ON A GANGED STUD COLUMN SUCH THAT THE GANGED NUMBER OF STUDS IS AT LEAST AS WIDE AS THE BEAM BEING SUPPORTED OR, WHEN FRAMED PARALLEL TO THE WALL, SHALL BEAR ON (2) STUDS MINIMUM FOR SAWN BEAMS AND (3) STUDS MINIMUM FOR LVL AND PSL BEAMS, UNO.
- WC08: SINGLE LVL OR SOLID SAWN MEMBERS OF 1.75" OR LESS WIDTH, BEARING ONTO A STUD WALL SHALL BEAR 2" MINIMUM ONTO THE WALL AND SHALL BE SUPPORTED BY (1) ADDITIONAL STUD.
- WC09: SOLID SAWN LUMBER PILES THAT ARE GANGED TO FORM UP TO A (4) PLY A BEAM SHALL HAVE ADJACENT PILES IN THE BEAM FASTENED TOGETHER WITH (2) ROWS OF 10d NAILS @ 16" O.C. INSTALLED ON (1) OUTER SIDE OF A (2) PLY BEAM AND INSTALLED (1) OUTER SIDE AND ON EACH ADJACENT PLY OF A (3) OR MORE GANGED PLY BEAM, TYP. UNO.
- WC10: LVL PILES THAT ARE GANGED TO FORM UP TO A (3) PLY BEAM, LESS THAN 16" IN DEPTH, SHALL HAVE ADJACENT PILES IN THE BEAM FASTENED TOGETHER WITH (3) ROWS OF 10d NAILS @ 12" O.C. INSTALLED ON (1) OUTER SIDE OF A (2) PLY BEAM AND INSTALLED ON BOTH OUTER SIDES OF A (3) PLY BEAM. LVL BEAMS 16" DEEP OR GREATER OR (4) OR MORE GANGED PILES SHALL BE FASTENED AS INDICATED ON PLANS.
- WC11: TYPICAL STUD WALL FRAMING SHALL BE 2X4 STUDS SPACED AT 16" O.C. OR, OF A WIDTH, OR SPACING AS INDICATED OTHERWISE ON PLANS. STUD WALLS SHALL BE FRAMED CONTINUOUS WITHOUT BREAK ALONG THE HEIGHT OF THE WALL AND SHALL CONSIST OF A SOLE PLATE AT THE BOTTOM OF THE WALL AND A DOUBLE TOP PLATE AT THE TOP OF THE WALL. DISCONTINUITIES IN A STUD WALL SHALL NOT OCCUR EXCEPT AS REQUIRED FOR DOOR OR WINDOW OPENINGS. THE KING STUDS FOR SUCH OPENINGS SHALL BE CONTINUOUS.
- WC12: THE REQUIRED NUMBER OF KING STUDS FOR EXTERIOR HEADERS IN 2X4 STUD WALLS SHALL BE DETERMINED BY NCSCB TABLE 602.3(5)(b) UNLESS NOTED OTHERWISE ON PLANS. FOR 2X6 OR WIDER STUD WALLS THE REQUIRED NUMBER OF KING STUDS FOR EXTERIOR HEADERS WALLS SHALL BE EQUAL TO 1/2 THE AMOUNT OF STUDS AS INDICATED BY THE TABLE LISTED ABOVE.
- WC13: STUDS THAT ARE GANGED TO FORM A LOAD BEARING COLUMN OR A COLUMN TRANSFERRING LOAD FROM ONE FLOOR TO THE NEXT SHALL HAVE ADJACENT STUDS WITHIN THE COLUMN NAILLED TOGETHER WITH (2) ROWS OF 10d NAILS AT 16" O.C. (3) ROWS OF 10d NAILS @ 8" O.C. FOR 2X6 OR 2X10 STUDS). ALL COLUMNS SHALL PROVIDE A CONTINUOUS LOAD PATH DOWN TO THE FOUNDATION OR OTHER ENGINEERED STRUCTURAL ELEMENTS INCLUDING SOLID BLOCKING OF EQUAL WIDTH OF THE COLUMN PROVIDED WITHIN THE DEPTH OF THE FLOOR SYSTEM CAVITY.
- WC14: NAILS SHALL BE COMMON WIRE NAILS TYP. UNO.
- WC15: LAG SCREWS SHALL CONFORM TO ANSI/ASME STANDARD B18.21-1981.
- WC16: PILE HOLES SHALL BE USED FOR LAG SCREW INSTALLATION AND SHALL BE BORED ACCORDING TO MDS SPECIFICATIONS.
- WC17: BOLTS AND LAG SCREWS USED FOR BOLTING WOOD MEMBERS SHALL HAVE STANDARD WASHERS INSTALLED FOR THE NUTS AND BOLT / SCREW HEADS.

## STEEL CONSTRUCTION

- ST01: STRUCTURAL STEEL SHALL MEET THE REQUIREMENTS OF THE AISC SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS.
- ST02: HOLLOW STRUCTURAL SECTIONS (HSS) SHALL CONFORM TO ASTM A500 GRADE C.
- ST03: ALL OTHER STRUCTURAL STEEL SHALL CONFORM TO ASTM A992 MINIMUM GRADE TYP. UNO.
- ST04: BOLTS SHALL CONFORM TO ASTM A307 MINIMUM GRADE TYP. UNO.
- ST05: WELDING ELECTRODES SHALL BE E70XX.
- ST06: ALL WELDING SHALL BE PERFORMED BY AN AWS CERTIFIED WELDER.
- ST07: REBAR SHALL BE DEFORMED STEEL CONFORMING TO ASTM A615 GRADE 60 TYP. UNO.
- ST08: STEEL FLITCH PLATE BEAMS SHALL CONSIST OF A CONTINUOUS STEEL PLATE BOLTED BETWEEN TWO PIECES OF CONTINUOUS LUMBER PLATE AND LUMBER AS SIZED PER PLANS. BOLT ASSEMBLY TOGETHER USING 1/2" THROUGH BOLTS SPACED AT 24" O.C. STAGGERED TOP TO BOTTOM OF BEAM. MAINTAIN A 2" EDGE DISTANCE. PLACE TWO BOLTS, ONE ABOVE THE OTHER, 6" FROM EACH END OF THE BEAM.
- ST09: ALL STEEL, HSS, AND STEEL FLITCH PLATE BEAMS BEARING ONTO A STUD WALL SHALL BEAR THE FULL WIDTH OF THE SUPPORTING WALL WHEN FRAMED PERPENDICULAR TO THE WALL AND, IN ALL CASES, SHALL BE SUPPORTED ON A GANGED STUD COLUMN SUCH THAT THE GANGED NUMBER OF STUDS IS AT LEAST AS WIDE AS THE BEAM BEING SUPPORTED OR, WHEN FRAMED PARALLEL TO THE WALL, SHALL BEAR ON (3) STUDS MINIMUM UNO.

## MASONRY CONSTRUCTION

- MS01: MASONRY CONSTRUCTION SHALL CONFORM TO THE SPECIFICATIONS OF ACI 530-95, LATEST EDITION.
- MS02: CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C 90 OR ASTM C 55.
- MS03: MORTAR SHALL BE TYPE M OR S CONFORMING TO ASTM C 476.
- MS04: ALL LOAD BEARING MASONRY UNITS SHALL BE LAID IN A RUNNING BOND, TYP.
- MS05: MASONRY PLASTERS SHALL BE BLOCK BONDED TO THE MASONRY WALL IMMEDIATELY ADJACENT, TYP.
- MS06: THE MAXIMUM HEIGHT OF HOLLOW AND SOLID GROUDED MASONRY UNITS USED IN MASONRY PER CONSTRUCTION SHALL CONFORM WITH THE TABLE BELOW.

LEAST PER DIMENSION	MAX HEIGHT FOR HOLLOW UNITS	MAX HEIGHT FOR SOLID UNITS
8"	24"	80"
12"	48"	120"
16"	64"	160"
20"	80"	NA
24"	96"	NA

## CONCRETE CONSTRUCTION

- CN01: REINFORCED CAST IN PLACE CONCRETE SHALL BE PROPORTIONED, MIXED AND PLACED IN ACCORDANCE WITH THE SPECIFICATIONS OF ACI 318, LATEST EDITION.
- CN02: ALL CONCRETE, INCLUDING CONCRETE FOR FOOTINGS, IS TO BE CAST IN PLACE, TYP. UNO.
- CN03: CAST IN PLACE CONCRETE SHALL BE NORMAL WEIGHT CONCRETE AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS TYP. UNO.
- CN04: WHERE CAST IN PLACE CONCRETE WALLS RETAIN A FEET OR MORE OF UNBALANCED FILL, THEY SHALL BE LATERALLY SUPPORTED AT THE TOP AND BOTTOM BEFORE BACKFILLING.
- SC01: SYNTHETIC POLYPROPYLENE FIBRILLATED MICRO FIBERS, FIBER SIZE AND DOSAGE RATE PER MANUFACTURER SPECIFICATION, MAY BE USED IN LIEU OF WELDED WIRE FABRIC IN GROUND SUPPORTED SLAB CONSTRUCTION.
- SC02: SOLID SAWN LUMBER SPECIES AND GRADE SUBSTITUTION IS ALLOWED ONLY BY WRITTEN AUTHORIZATION OF SUBSTITUTION BY ENGINEER OR RECORD.
- SC03: ENGINEERED WOOD BEAM AND JOIST SUBSTITUTION IS ALLOWED PROVIDED THAT THE CONTRACTOR OR THE LUMBER SUPPLIER RESPONSIBLE FOR THE SUBSTITUTION PROVIDES DOCUMENTATION AT THE TIME OF INSPECTION DEMONSTRATING THAT THE MATERIAL SUBSTITUTION MEETS OR EXCEEDS THE MINIMUM DESIGN SPECIFICATIONS OF THE ENGINEERED WOOD BEAMS OR JOISTS NOTED ON THE SEALED SET OF ENGINEERED PLANS. IN ALL CASES, THE JOIST SPACING NOTED ON THE SEALED SET OF PLANS IS TO REMAIN THE SAME.
- SC04: ALL OTHER UNAUTHORIZED SUBSTITUTIONS AND / OR DEVIATIONS ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. FAILURE OF THE CONTRACTOR TO CONFORM TO THE STRUCTURAL DRAWINGS SHALL VOID THE ENGINEER'S SEAL AND THE FIRM'S LIABILITY UNLESS CHANGES TO THE STRUCTURAL PLANS ARE APPROVED BY THE ENGINEER OF RECORD.

## LEGAL DISCLAIMER / MISCELLANEOUS NOTES

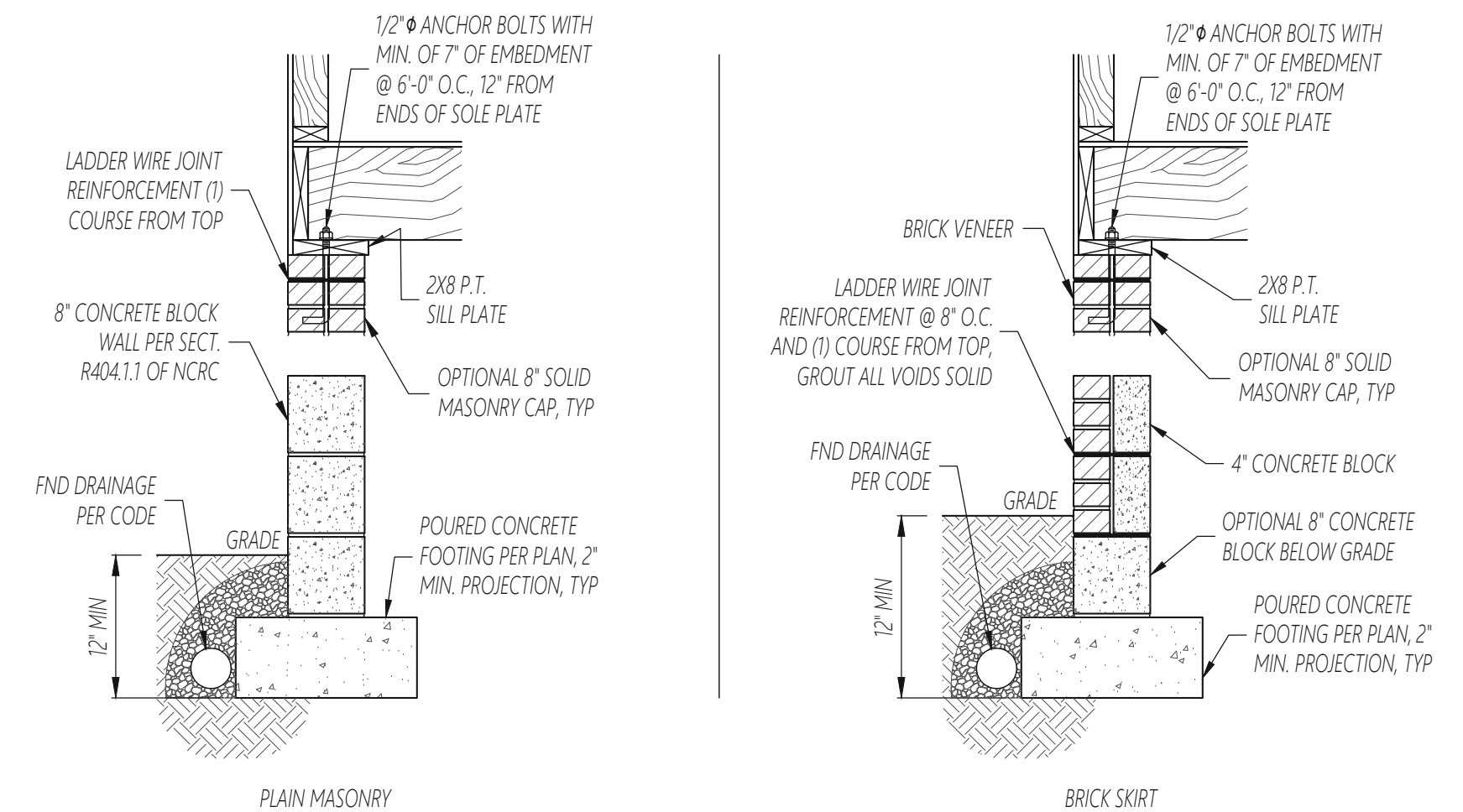
- THE ELECTRONIC DISTRIBUTION OF THIS DOCUMENT TO PARTIES OTHER THAN THE INTENDED CLIENT AND / OR DIGITAL MODIFICATION OF THIS DOCUMENT IN ANY WAY IS PROHIBITED AND SHALL VOID THE ENGINEER OF RECORD'S SEAL.
- ONE NICHOLS ENGINEERING, INC DOES NOT PERFORM FENESTRATION, ROOF VENT, OR ATTIC CALCULATIONS OR ANY OTHER AREA CALCULATIONS THAT ARE NOT RELATED TO STRUCTURAL ENGINEERING.
- TRUSSES ARE TO BE DESIGNED BY OTHERS AS AN ENGINEER REGISTERED IN NORTH CAROLINA. FINAL TRUSS DRAWING SHOULD BE SUBMITTED TO ONE NICHOLS ENGINEERING, INC FOR REVIEW PRIOR TO CONSTRUCTION.
- REVIEW SETS SHALL BE PROVIDED TO THE CLIENT TO ENSURE THAT THE SCOPE OF WORK HAS BEEN COMPLETED IN CONFORMANCE WITH THE CLIENT'S PREFERENCES. CLIENT APPROVAL OF REVIEW SETS SHALL INDICATE THAT THE CLIENT HAS ADEQUATELY REVIEWED THE SET OF DRAWINGS AND ACKNOWLEDGES THAT THE SCOPE OF WORK HAS BEEN COMPLETED TO THE CLIENT'S SATISFACTION. UPON APPROVAL OF REVIEW SETS, THE SEALED SET OF PLANS ARE ISSUED AND SHALL BE CONSIDERED FINALIZED CONSTRUCTION DOCUMENTS.
- THE BUILDER IS RESPONSIBLE FOR REVIEWING ALL PLANS PRIOR TO CONSTRUCTION, AND IN THE CASE OF EXISTING CONSTRUCTION, VERIFYING ALL EXISTING CONDITIONS DURING DEMOLITION PRIOR TO CONSTRUCTION.

## COMMON ABBREVIATIONS

ABV	ABOVE	FND	FOUNDATION	THK	THICK
BE	BOTH ENDS	FTG	FOOTING	TYP	TYPICAL
BTWN	BETWEEN	HDC	HOT DIPPED GALVANIZED	TRPL	TRIPLE
CJ	CEILING JOIST	HGR	HANGER	TRP	TRIPLE STUD POCKET
CMC	CONCRETE	LVL	LAMINATED VENEER LUMBER	UNO	UNLESS NOTED OTHERWISE
CONT	CONTINUOUS	NO	NUMBER	VLF	VERIFY IN FIELD
CS	CONTINUOUS SHEATHING	NTS	NOT TO SCALE	WF	WIDE FLANGE BEAM
DN	Diameter	O.C.	ON CENTER	XI	EXTRA JOIST
DBL	DOUBLE	PSL	PARALLEL STRAND LUMBER		
DI	DOUBLE JOIST	PT	PRESSURE TREATED		
DSP	DOUBLE STUD POCKET	REF	REFERENCE		
E.E.	EACH END	SMS	SIMPSON		
FLR	FLOOR	SQ	SQUARE		

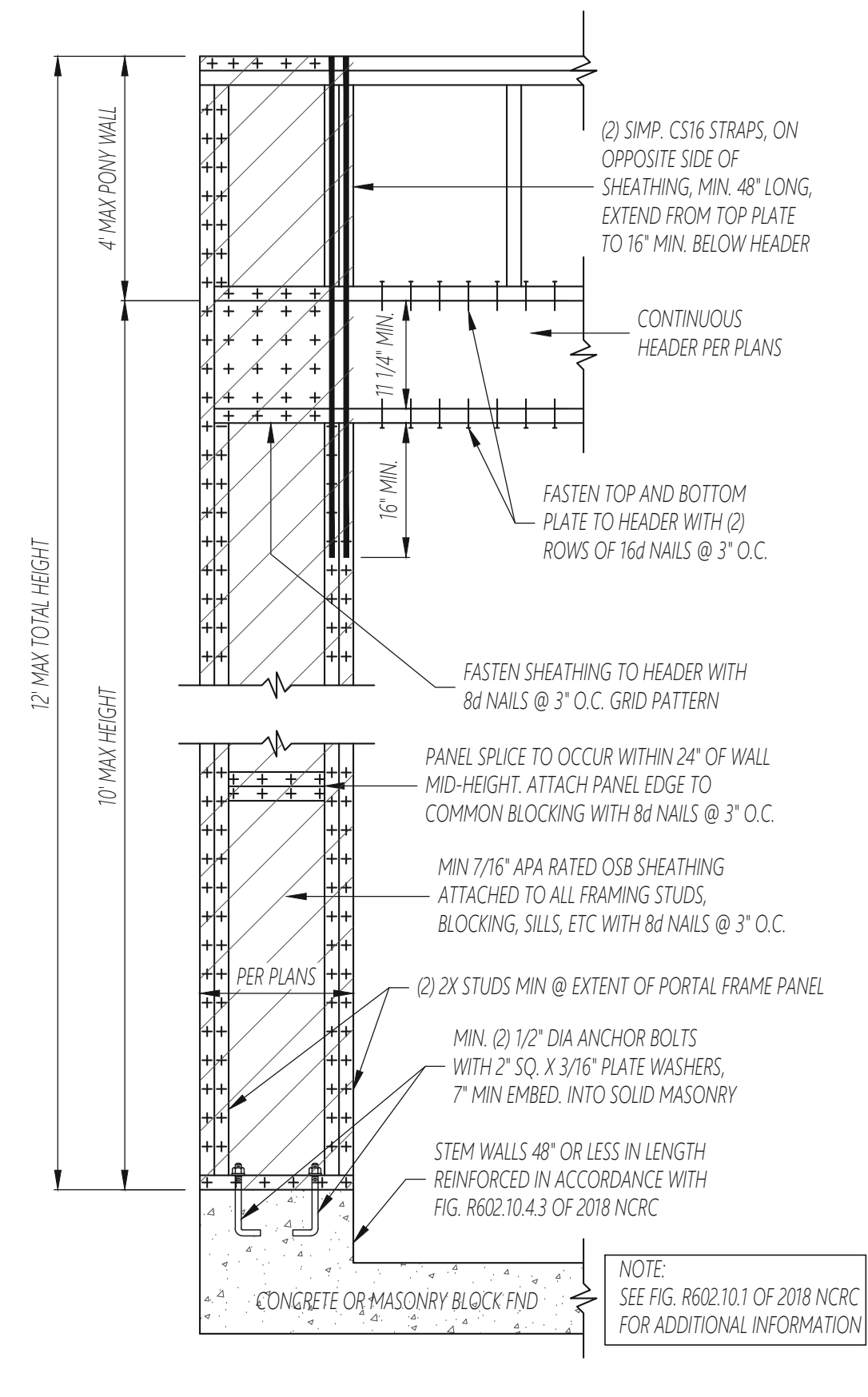
### 1 SECTION, 3/4" = 1'-0"

TYPICAL CRAWL SPACE FOUNDATION WALL-PLAIN MASONRY, BRICK SKIRT OPTION



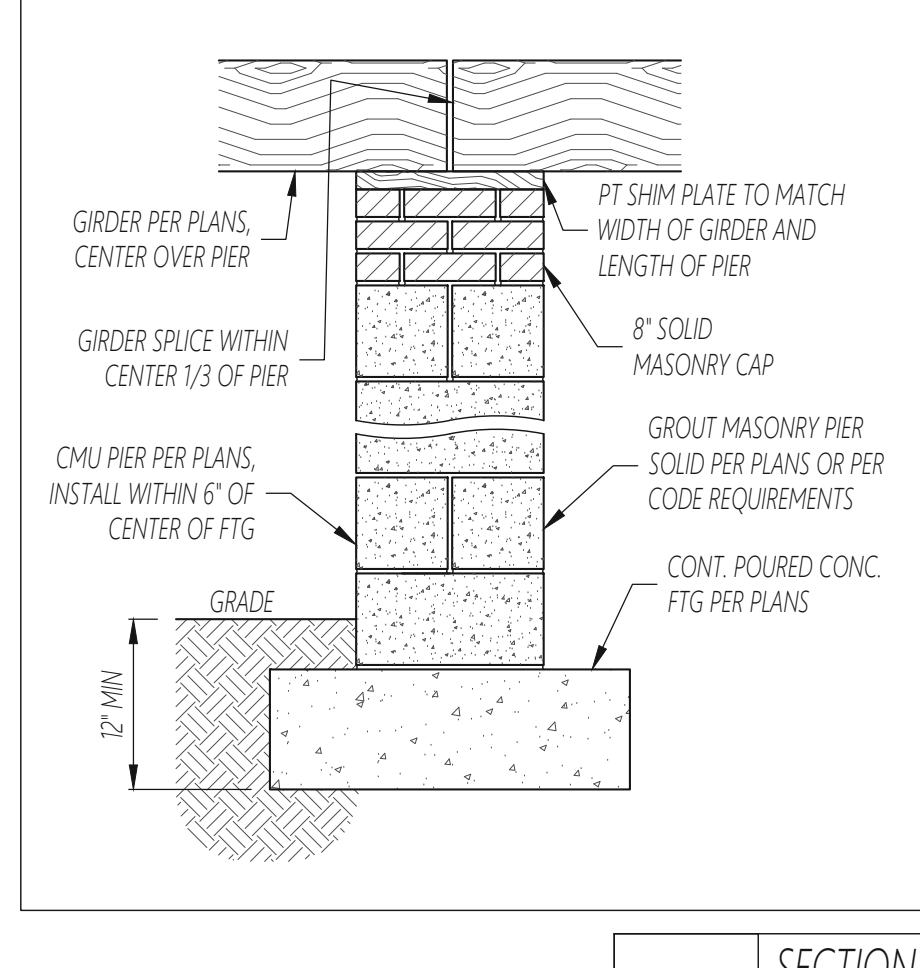
### 5 SECTION, 3/4" = 1'-0"

TYPICAL PORTAL FRAME CONSTRUCTION, SINGLE FRAME



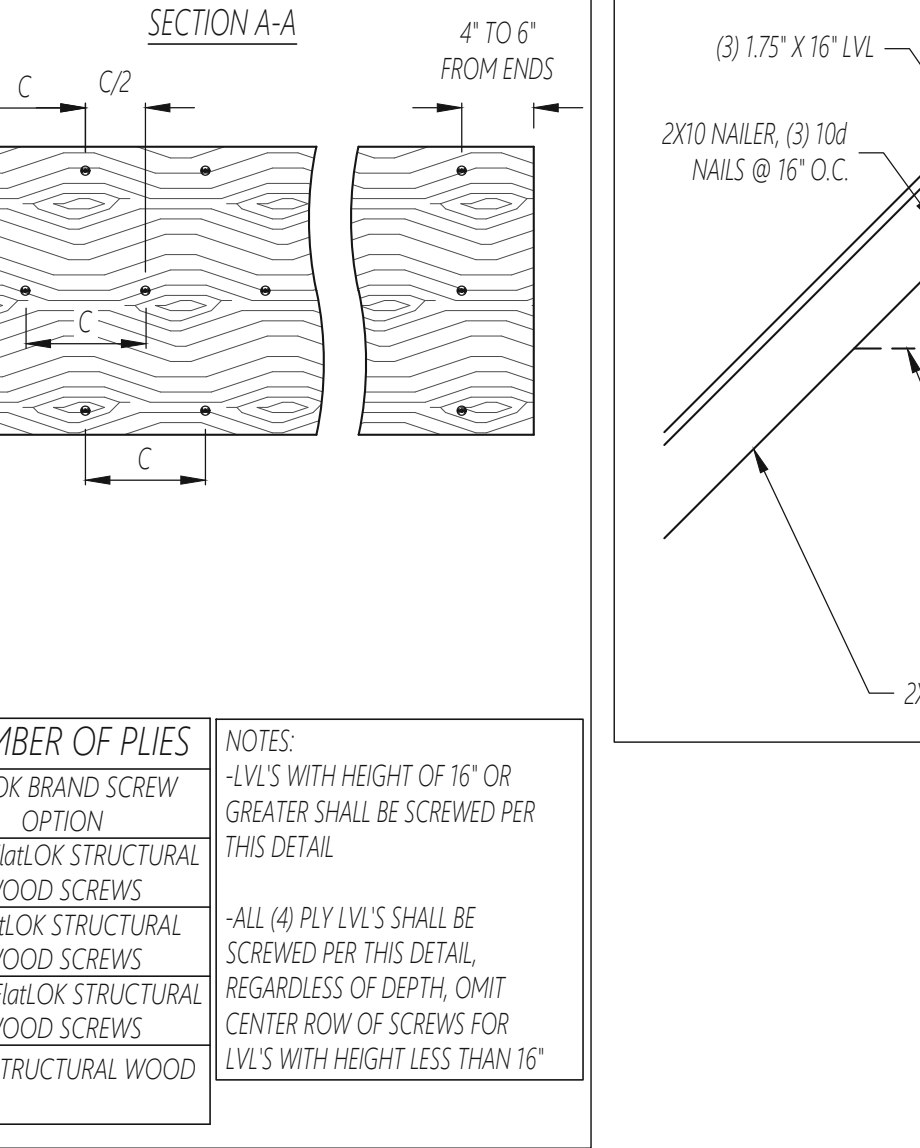
### 2 SECTION, 3/4" = 1'-0"

TYPICAL MASONRY PIER AND GIRDER



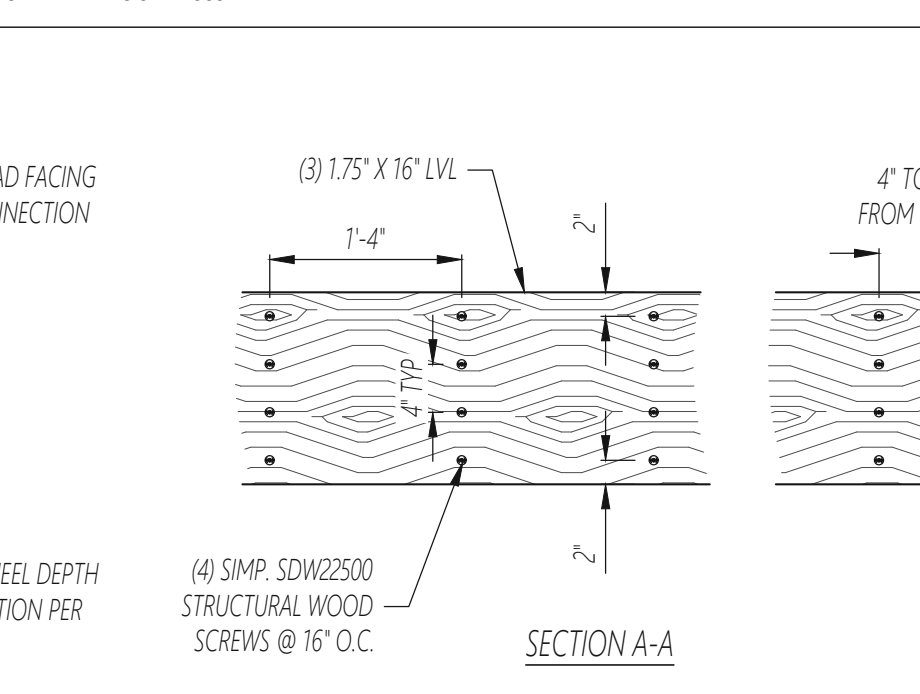
### 6 SECTION, 3/4" = 1'-0"

TYPICAL LVL FASTENING ATTACHMENT, 16" OR DEEPER LVL PILES



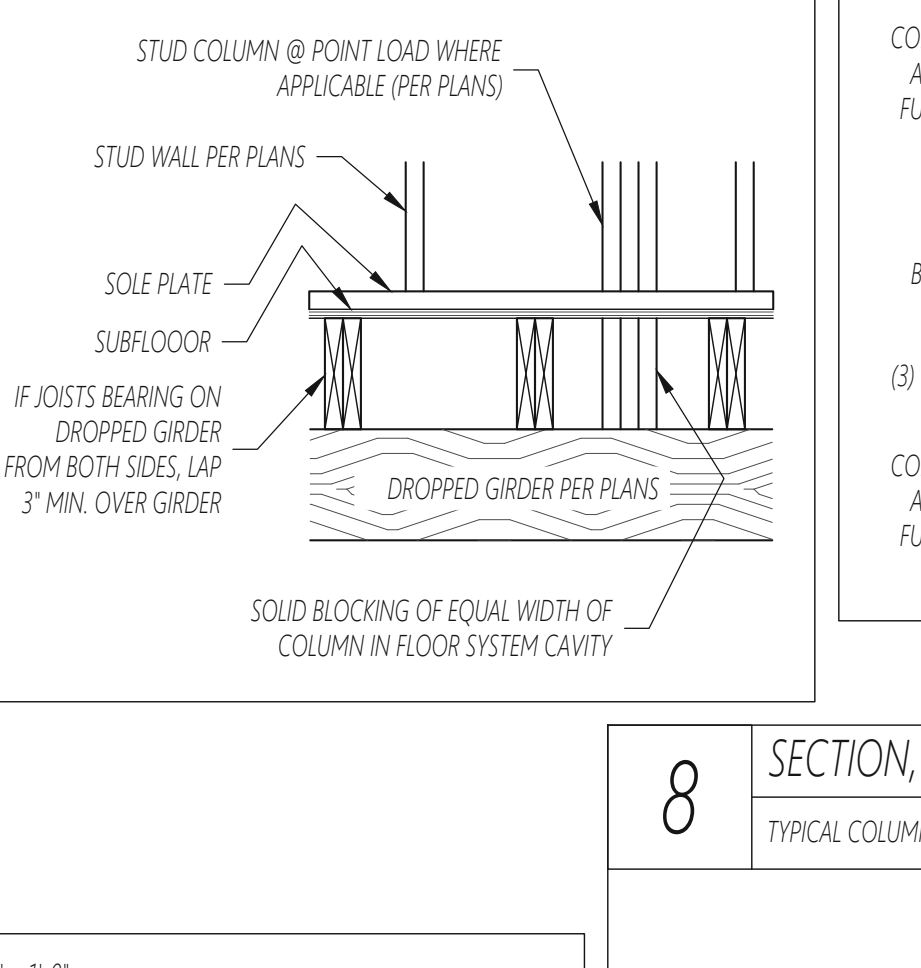
### 9 SECTION, 3/4" = 1'-0"

TYPICAL 3-PLY 16" LVL FASTENING ATTACHMENT, SIDE LOADED BY ROOF TRUSS



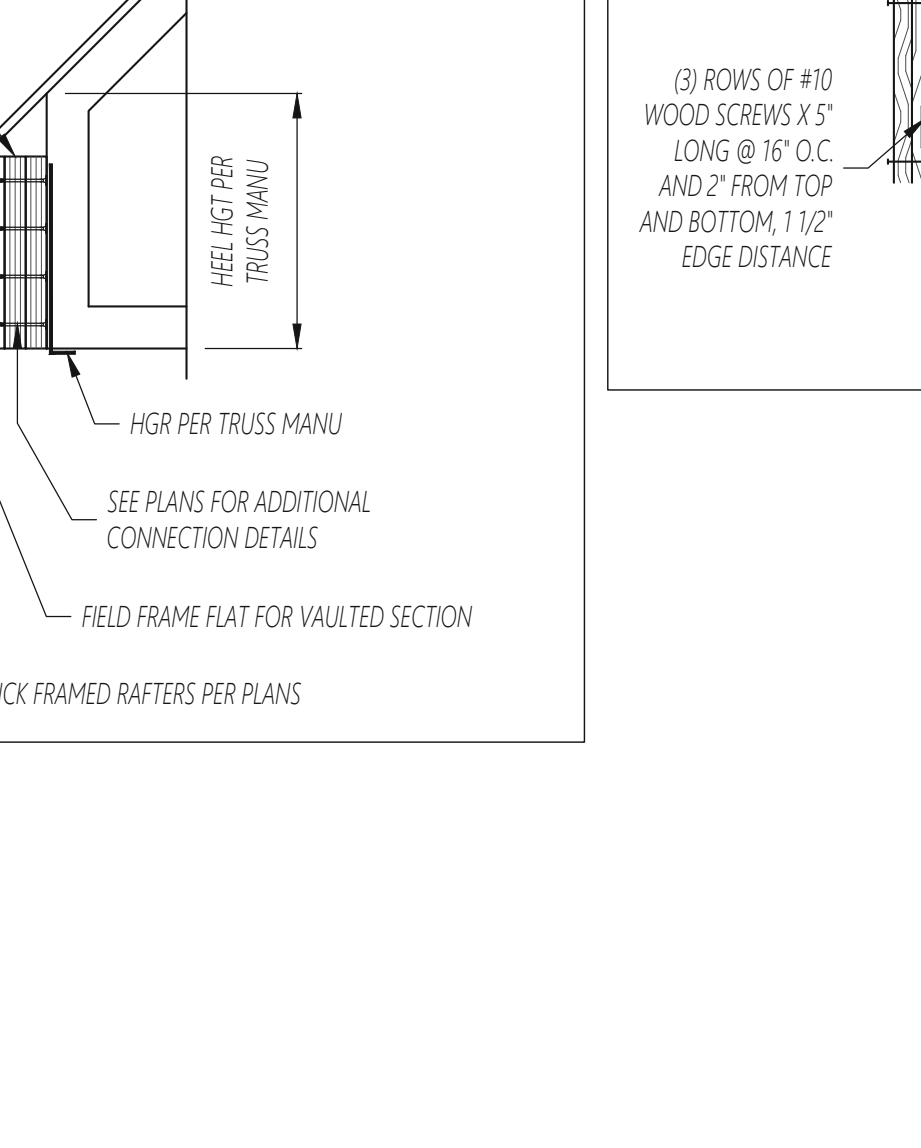
### 3 SECTION, 3/4" = 1'-0"

TYPICAL DROPPED GIRDER



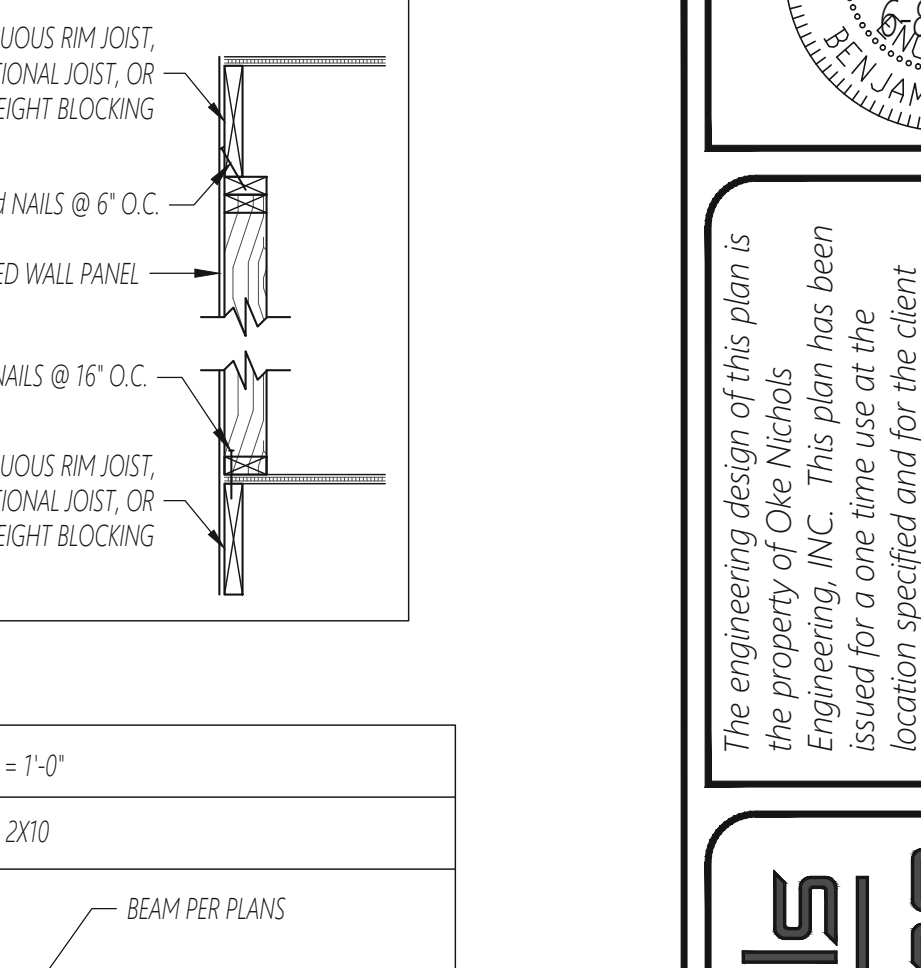
### 7 SECTION, 3/4" = 1'-0"

ROOF TRUSS, LVL BEAM, STICK FRAMED ROOF FRAMING WITH VAULTED SECTION



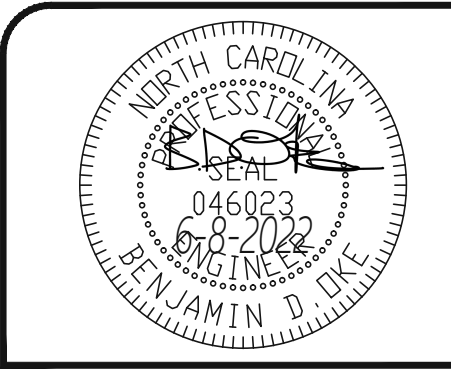
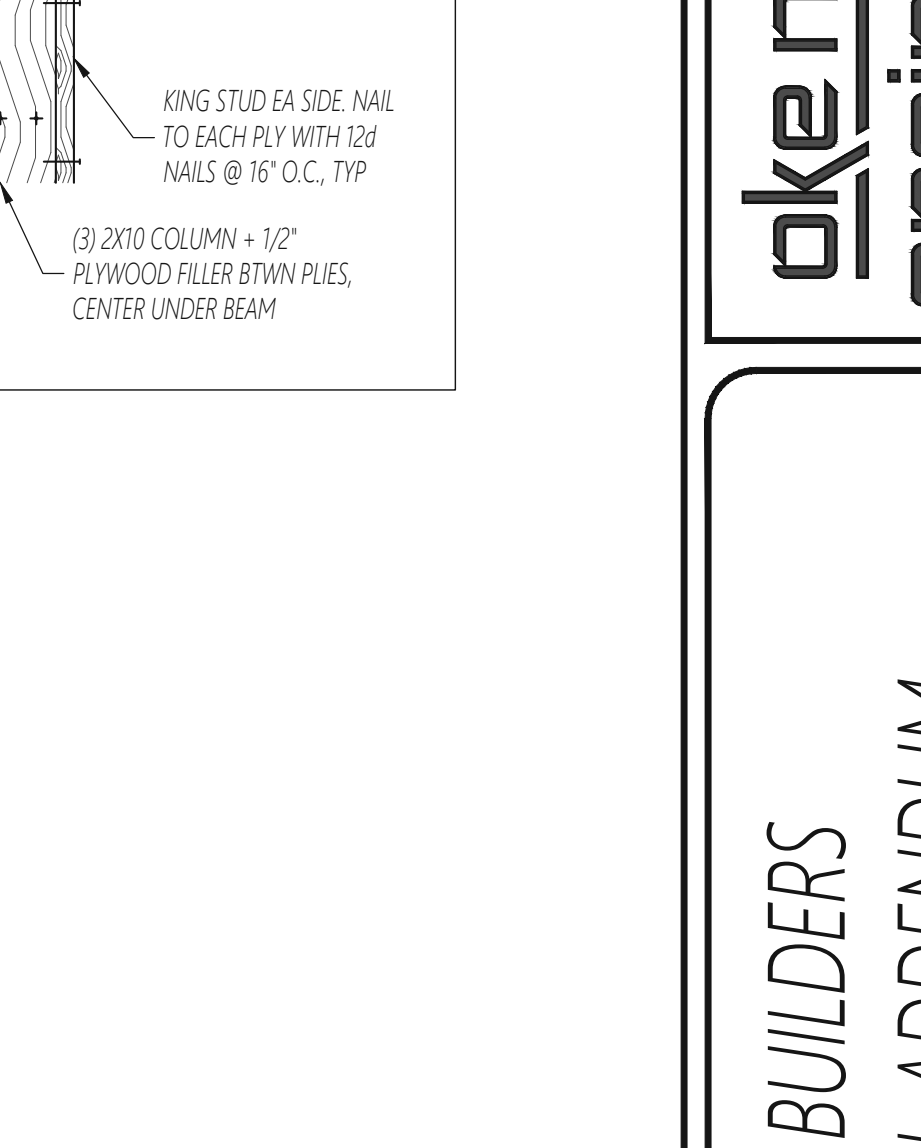
### 4 SECTION, 3/4" = 1'-0"

TYPICAL BRACED WALL PANEL



### 8 SECTION, 3/4" = 1'-0"

TYPICAL COLUMN: (3) 2X10



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ATMOS BUILDERS  
STRUCTURAL ADDENDUM  
50 TALBERT DRIVE

ENG: BDO  
DATE: 6-8-2022  
REV:

PROJECT NO.  
2210165

SHEET NO.  
SD1  
6 of 6