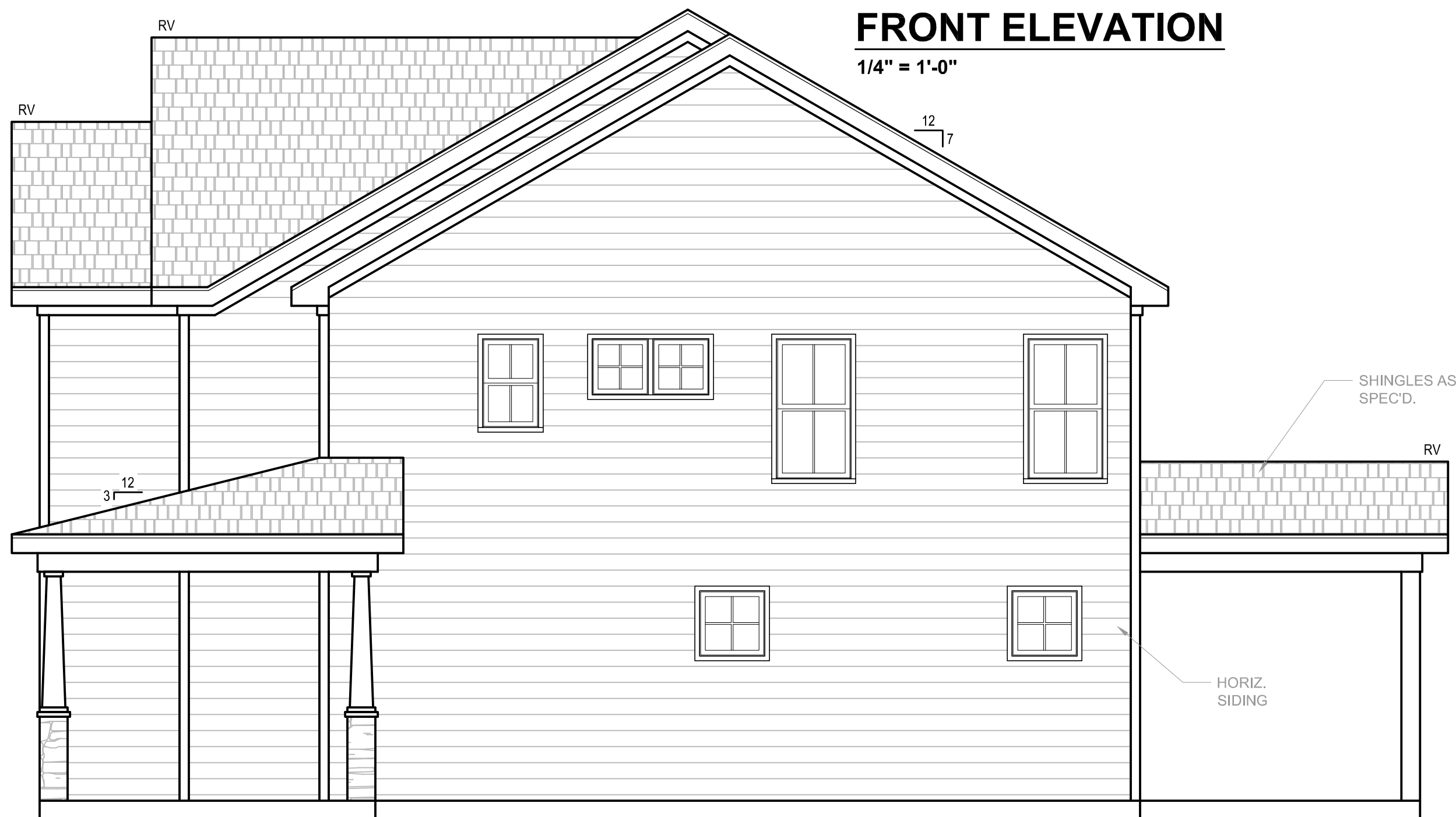




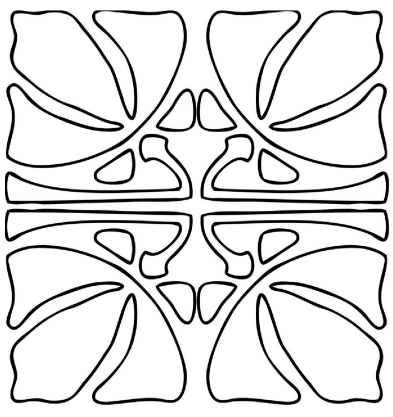
**FRONT ELEVATION**

1/4" = 1'-0"

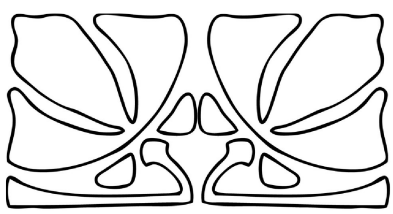


**RIGHT ELEVATION**

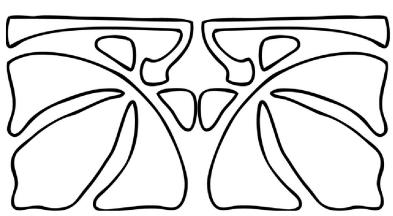
1/4" = 1'-0"



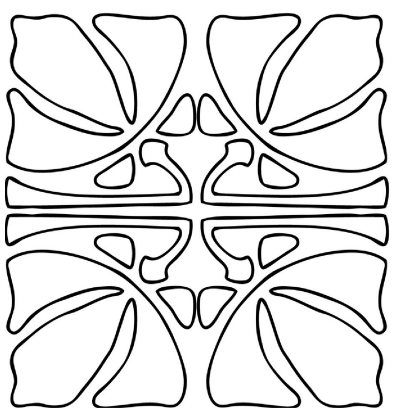
ATHRIUM - 2275



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CLAYTON, NC 27520  
919.624.4776



WHITTENTON BUILDERS

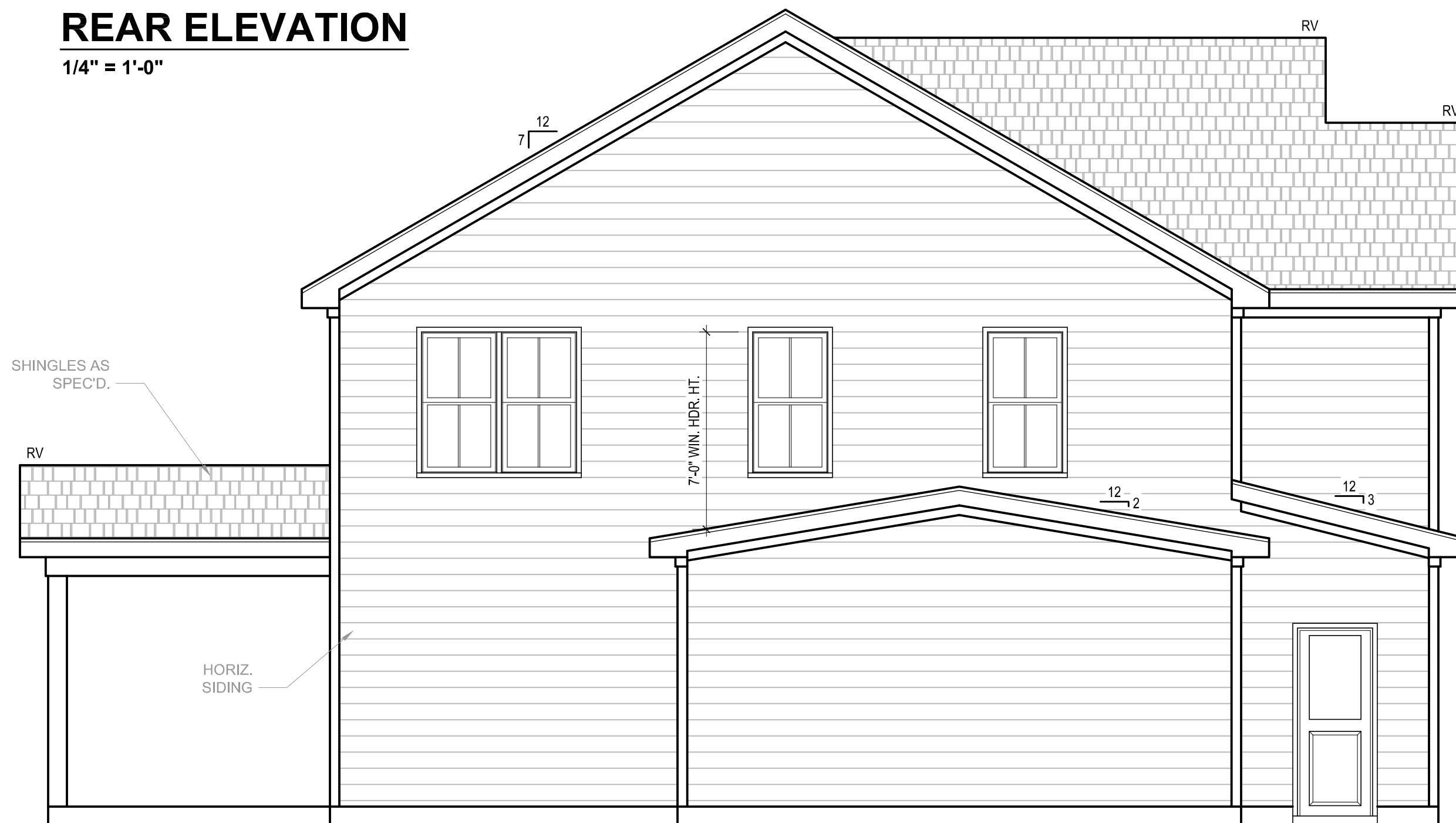


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### REAR ELEVATION

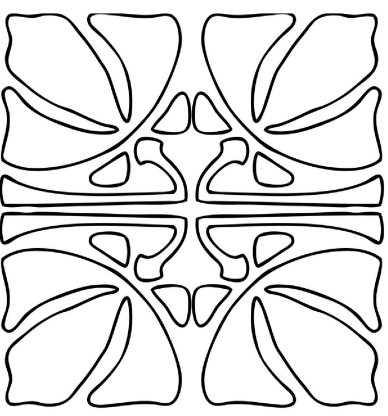
1/4" = 1'-0"



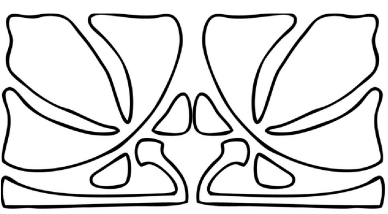
### LEFT ELEVATION

1/4" = 1'-0"

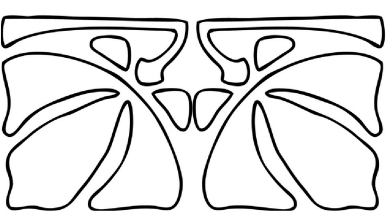
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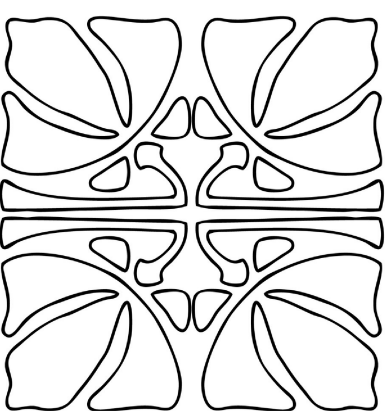
ATHRIUM - 2275

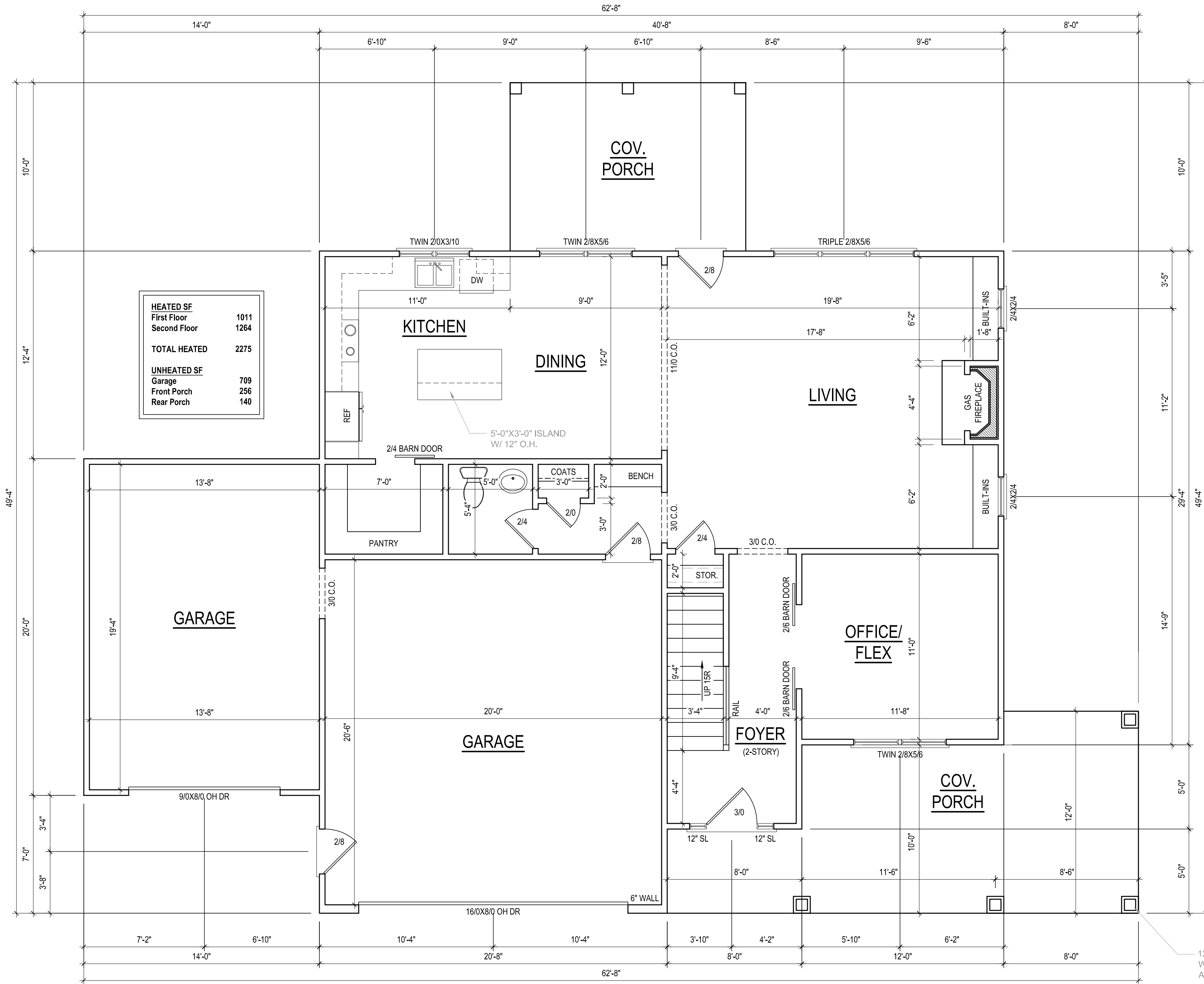


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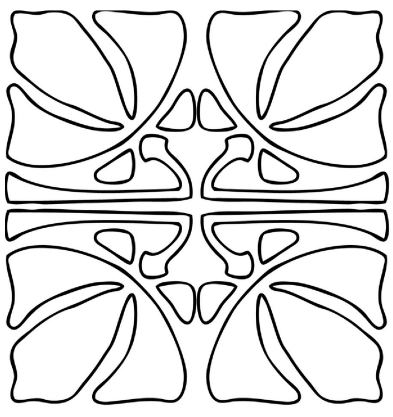
12"X12" STONE BASE  
W/ TAPERED COL.  
ABV. (TYP)

# FIRST FLOOR PLAN

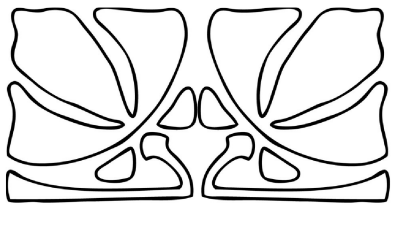
1/4" = 1'-0"      CEILING HGT. = 9'-0"

\*ALL LUMBER TO BE #2 SPF, UNO  
ALL WALLS TO BE 4" THICK

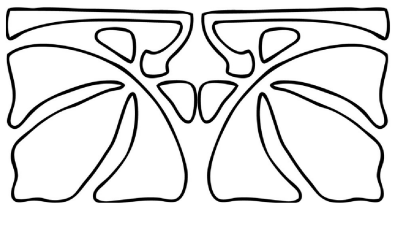
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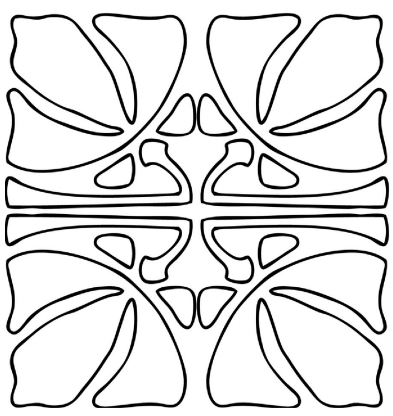
ATHRIUM - 2275

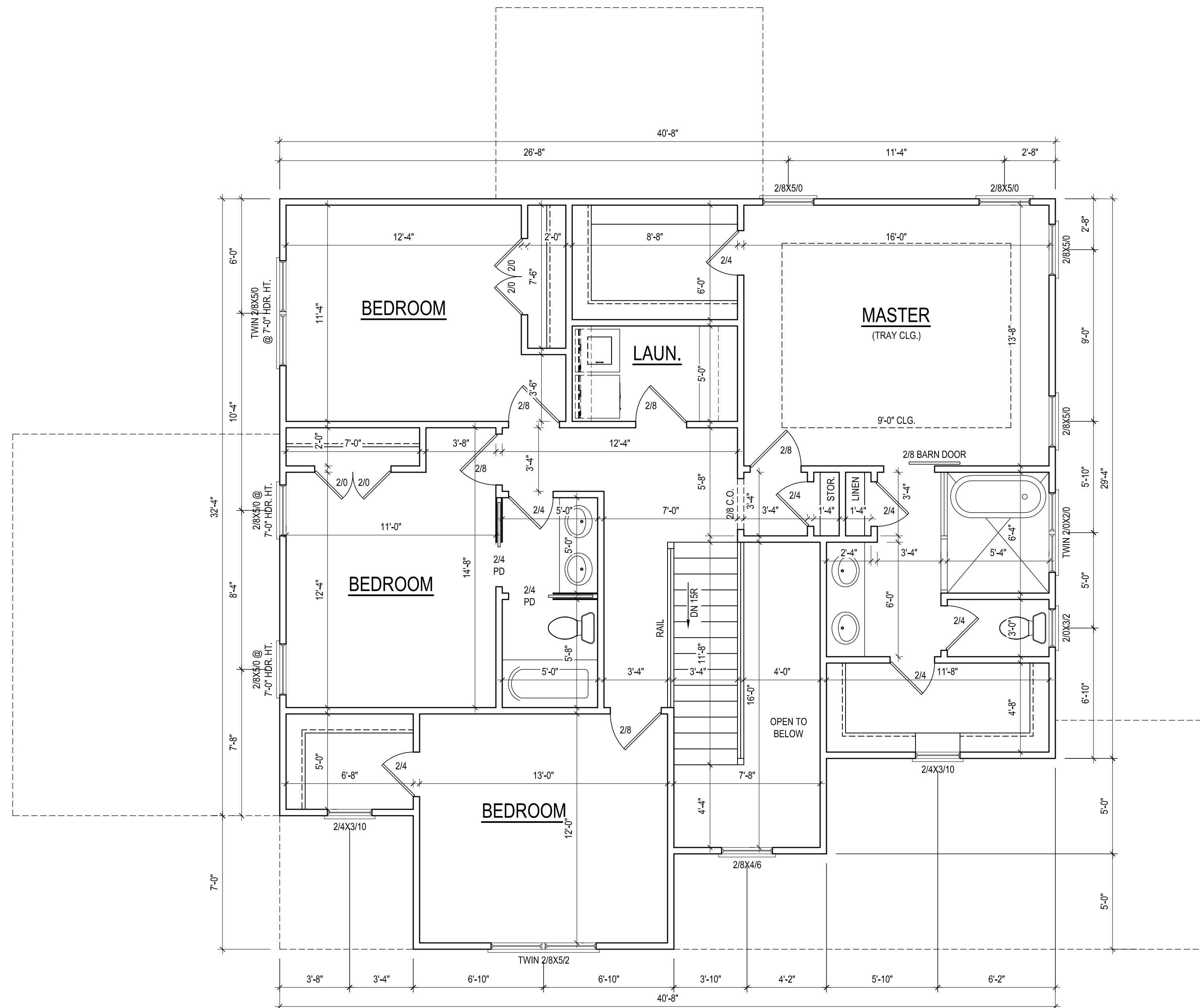


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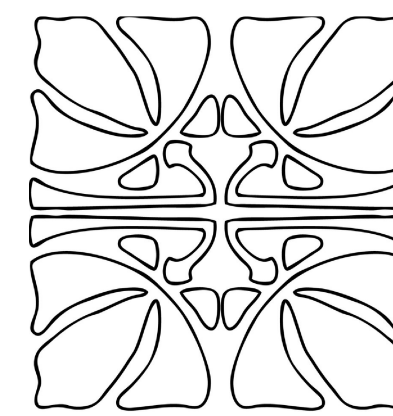


### SECOND FLOOR PLAN

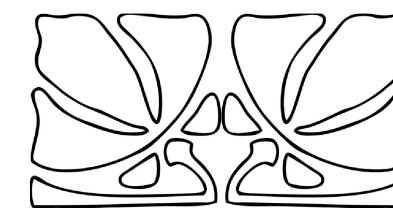
1/4" = 1'-0" CEILING HGT. = 8'-0"

\*ALL LUMBER TO BE #2 SPF, UNO  
ALL WALLS TO BE 4" THICK

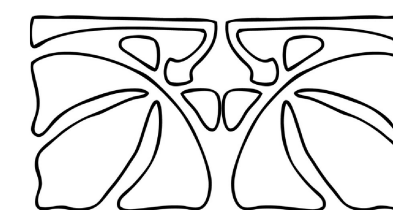
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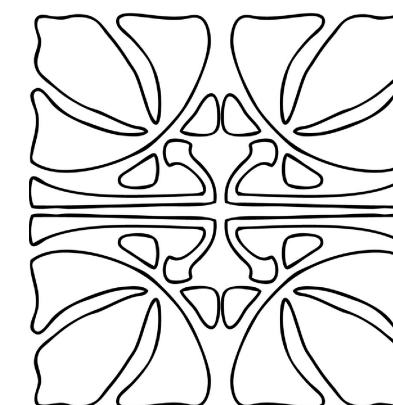
ATHRIUM - 2275



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# GENERAL STRUCTURAL SPECIFICATIONS

**APPLICABLE DESIGN CODES:**

- 2018 NORTH CAROLINA STATE RESIDENTIAL BUILDING CODE
- DESIGN WIND SPEED: Vult: 120 MPH

**FOUNDATIONS AND SOIL CONDITIONS**

- ALLOWABLE BEARING CAPACITY FOR SHALLOW PAD FOUNDATIONS: 2000 PSF (ASSUMED VALUE BASED ON CODE RECOMMENDATIONS)
- EXCAVATIONS TO BE FREE OF LOOSE SOIL MATERIAL, DEBRI, AND EXCESS WATER.

**EXCAVATIONS**

- CONTRACTOR SHALL FOLLOW ALL OSHA STANDARDS AND RECOMMENDATIONS FOR EXCAVATIONS. THIS INCLUDES BUT NOT LIMITED TO SLOPES OF CUTS AND SHORING OF EXCAVATIONS.
- CONTRACTOR IS RESPONSIBLE FOR VERIFYING ANY EXISTING UTILITIES ON THE PROJECT SITE PRIOR TO ANY EXCAVATION. THE ENGINEERS OF RECORD SHALL BE NOTIFIED OF ANY CONFLICT DUE TO ANY EXISTING UTILITIES OR CONDITIONS.

**CONCRETE**

- COMPRESSIVE STRENGTH (F'C) = 3000 PSI
- ENTRAINED AIR = 6% ±1% BY VOLUME
- ALL CONCRETE TO BE DESIGNED AND CONSTRUCTION USING THE SPECIFICATIONS STATED IN ACI 318 (LATEST CODE ADOPTED EDITION).
- MINIMUM CONCRETE COVER AND EDGE DISTANCES TO FOLLOW ACI 318 (LATEST CODE ADOPTED EDITION).
- CONSTRUCTION JOINTS REQUIRE APPROVAL BY THE STRUCTURAL ENGINEER.
- CONCRETE SHALL BE THOROUGHLY VIBRATED IN FORMS.
- WHEN MULTIPLE POURS ARE REQUIRED, EXISTING CONCRETE SURFACES SHALL BE ROUGHENED. CONCRETE BONDING AGENT SHALL THEN BE APPLIED TO ALL ROUGHENED SURFACES. BONDING AGENT MUST CONFORM TO ASTM C1059, TYPE II.
- CONCRETE SLABS ON GRADE MUST SATISFY THE FOLLOWING
  - MIN. 4" THICK.
  - CONTAIN WELDED WIRE FABRIC OR SYNTHETIC MICROFIBERS. MICROFIBERS MUST BE 1.5" LONG, HAVE A MINIMUM COMPRESSION STRESS OF 3400 PSI, AND APPLIED AT A RATE OF 1-15 LBS PER CUBIC YARD OF CONCRETE.
  - 6 MIL VAPOR BARRIER BELOW SLAB (CAN BE OMITTED FOR NON-HEATED SPACES)
  - PLACED ON 4" OF GRANULAR FILL THAT RESTS ON SOIL ACHIEVING 90% COMPACTION (OR GEOTECH APPROVED FILL)
- CONCRETE MUST CURE FOR A MINIMUM OF 28 DAYS PRIOR TO INSTALLING ANY STRUCTURE UNLESS GIVEN APPROVAL FROM ENGINEER OF RECORD.

**POST - INSTALLED ANCHORS**

- POST INSTALLED ANCHORS INDICATED ON PLANS CAN BE SUBSTITUTED WITH AN ENGINEER APPROVED EQUIVALENT PRODUCT.
- IF ANCHOR NOT LISTED ON PLANS, THE FOLLOWING PRODUCTS CAN BE USED
  - ADHESIVE ANCHOR: HILTI HIT-RE 500 V3 EPOXY (USE MANUFACTURED APPROVED ANCHOR WITH EPOXY)
  - MECHANICAL ANCHOR: HILTI KWIK BOLT TZ, HILTI KWIK HUS-EZ
- SUBSTITUTIONS FOR ANCHORING PRODUCTS MUST BE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER OF RECORD.
- FOLLOW MANUFACTURE'S GUIDELINES FOR INSTALLATION.
- CONCRETE MUST CURE FOR A MINIMUM OF 7 DAYS PRIOR TO INSTALLING ANY POST - INSTALLED ANCHORS UNLESS GIVEN APPROVAL FROM ENGINEER OF RECORD.

**WOOD LUMBER**

- SAWN WOOD MEMBERS ARE DESIGNED BASED ON SOUTHERN YELLOW PINE #2 OR SPRUCE PINE #2. (LUMBER MUST MEET OR EXCEED THE PROPERTIES FOR THESE SPECIES)

**BOLTS AND LAG SCREWS**

- BOLTS SHALL CONFORM TO ASTM A307 MINIMUM GRADE TYP UNO.
- BOLTS, WASHERS, AND NUTS SHALL BE GALVANIZED IN ACCORDANCE TO ASTM A153 IF EXPOSED TO ELEMENTS.
- LAG SCREWS SHALL CONFORM TO ANSI/ASME STANDARD B18.2.1-1981.D
- CAST IN PLACE CONCRETE ANCHORS TO BE PROTECTED FROM DAMAGE DURING CONCRETE INSTALL, INCLUDING THREAD CONTACT WITH WET CONCRETE.

**ADDITIONAL NOTES**

- THE CONTRACTOR IS RESPONSIBLE FOR REVIEWING PLANS PRIOR TO CONSTRUCTION. THE ENGINEER OF RECORD SHOULD BE CONTACTED PRIOR TO CONSTRUCTION IF:
  - THE PLANS CONTAINS INACCURATE INFORMATION
  - PLANS ARE INCOMPLETE OR LACK NECESSARY INFORMATION FOR CONSTRUCTION
- THE CONTRACTOR SHALL REVIEW ALL DIMENSION. ANY DISCREPANCY SHOULD BE REPORTED TO ENGINEER OF RECORD PRIOR TO CONSTRUCTION OR PROCEEDING.
- FOUNDATION CONTRACTOR SHALL COMPLY WITH ALL OSHA STANDARDS.

**WALL BRACING**

- CONTINUOUS SHEATHING
  - $\frac{7}{16}$ " (MIN.) OSB ON ALL EXTERIOR WALLS
  - INTERIOR OF PANEL NAILING: 6d NAILS @ 12" O.C.
  - PANEL EDGE NAILING: 6d NAILS @ 6" O.C.
- GB: GYPSUM BOARD BRACING (WHERE INDICATED)
  - $\frac{1}{2}$ " (MIN.) INSTALLED ON BOTH SIDES OF WALL
  - INTERIOR OF PANEL NAILING: 5d NAILS @ 7" O.C.
  - PANEL EDGE NAILING: 5d NAILS @ 7" O.C.
- WSP: WOOD STRUCTURAL PANEL BRACING (WHERE INDICATED)
  - $\frac{3}{8}$ " (MIN.) WSP
  - INTERIOR OF PANEL NAILING: 6d NAILS @ 12" O.C. (8d FOR  $\frac{7}{16}$ " WSP) PANEL EDGE NAILING: 6d NAILS @ 6" O.C. (8d FOR  $\frac{7}{16}$ " WSP)

**DOCUMENTS AND LIMITATIONS**

- THIS DOCUMENT SERVES TO PROVIDE A TOOL FOR THE SPECIFIC NEEDS OF THE PARTICULAR JOB SITE AND INFORMATION GIVEN. ENDURE ENGINEERING PLLC DOES NOT ACCEPT LIABILITY FOR REUSE OR IMPROPER USE OF THIS DOCUMENT UNLESS GIVEN PRIOR WRITTEN AUTHORIZATION.
- THE DESIGNS IN THIS DOCUMENT ARE BASED ON THE STATED ADOPTED CODE TO BE USED AND CURRENT GENERALLY ACCEPTED PROFESSIONAL ENGINEERING PRACTICES. THE STRUCTURAL ENGINEER OF RECORD GIVES NO WARRANTY FOR ANY FINDINGS, DESIGNS, RECOMMENDATIONS, SPECIFICATIONS, OPINION, OR PROFESSIONAL ADVICE.
- ALL FIELD MODIFICATIONS REQUIRE WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER OF RECORD. THE ENGINEER OF RECORD IS NOT RESPONSIBLE FOR ANY WORK THAT HE/SHE DID NOT REVIEW OR WAS NOT COMPLETED IN ACCORDANCE WITH THE SEALED RELEASED PLANS.

**ABBREVIATION**

- ABV
- AFF
- BE
- BF
- BTWN
- BW
- CLR
- CONC
- DIA
- DBL
- EQ
- EA
- FLG
- FND
- HDG
- MSN
- NTS
- OC
- OD
- PL
- STD
- SQ
- THK
- TYP
- UNO
- XJ
- XS

**TERM**

- ABOVE
- ABOVE FINISHED FLOOR
- BOTH ENDS
- BOTTOM FLUSH
- BETWEEN
- BOTH WAYS
- CLR
- CONCRETE
- DIAMETER
- DOUBLE
- EQUAL
- EACH
- FLANGE
- FOUNDATION
- HOT-DIPPED GALVANIZED
- MASONRY
- NOT TO SCALE
- ON CENTER
- OUTSIDE DIAMETER
- PLATE
- STANDARD
- SQUARE
- THICK
- TYPICAL
- UNLESS NOTED OTHERWISE
- EXTRA JOIST
- EXTRA STRONG

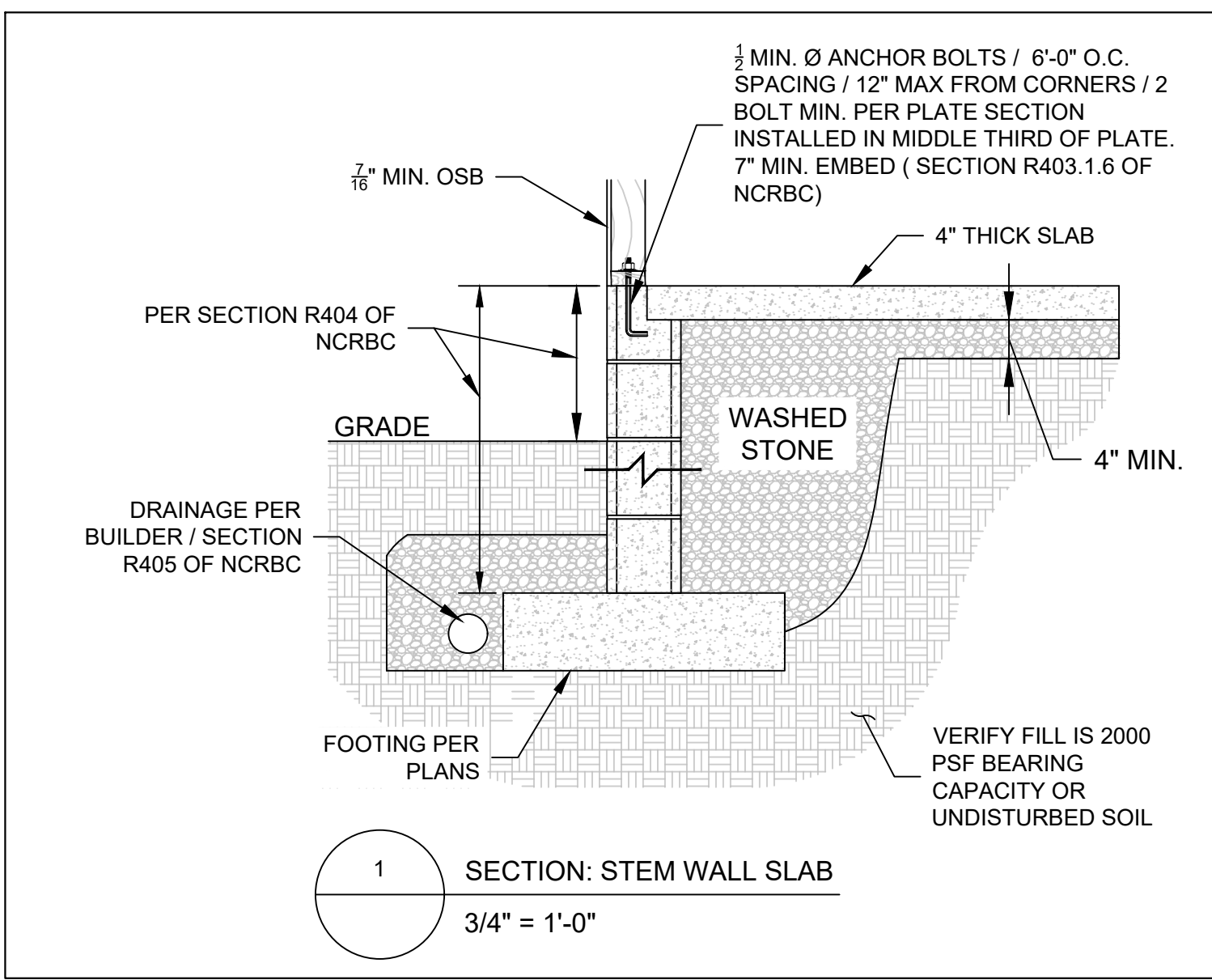
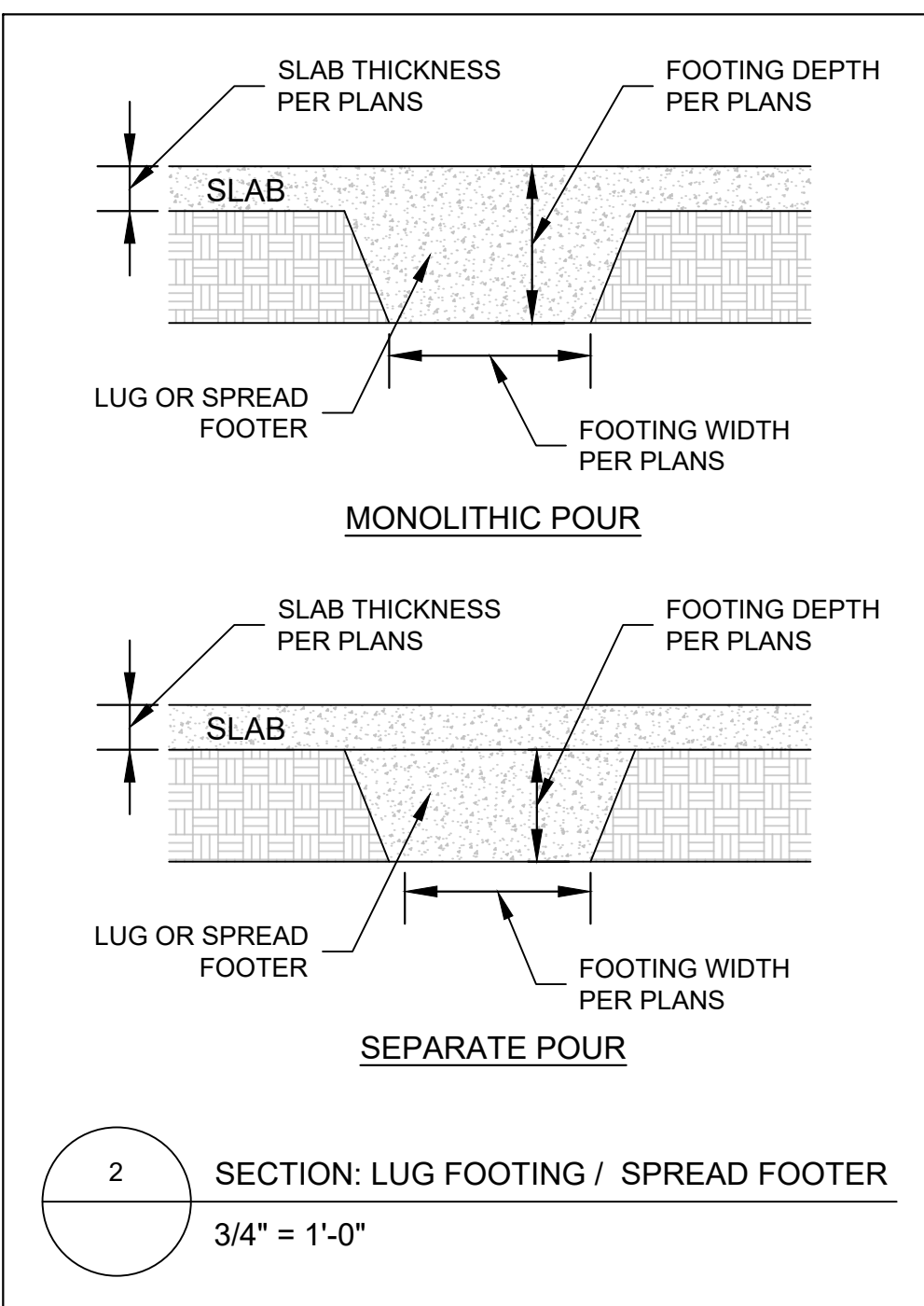
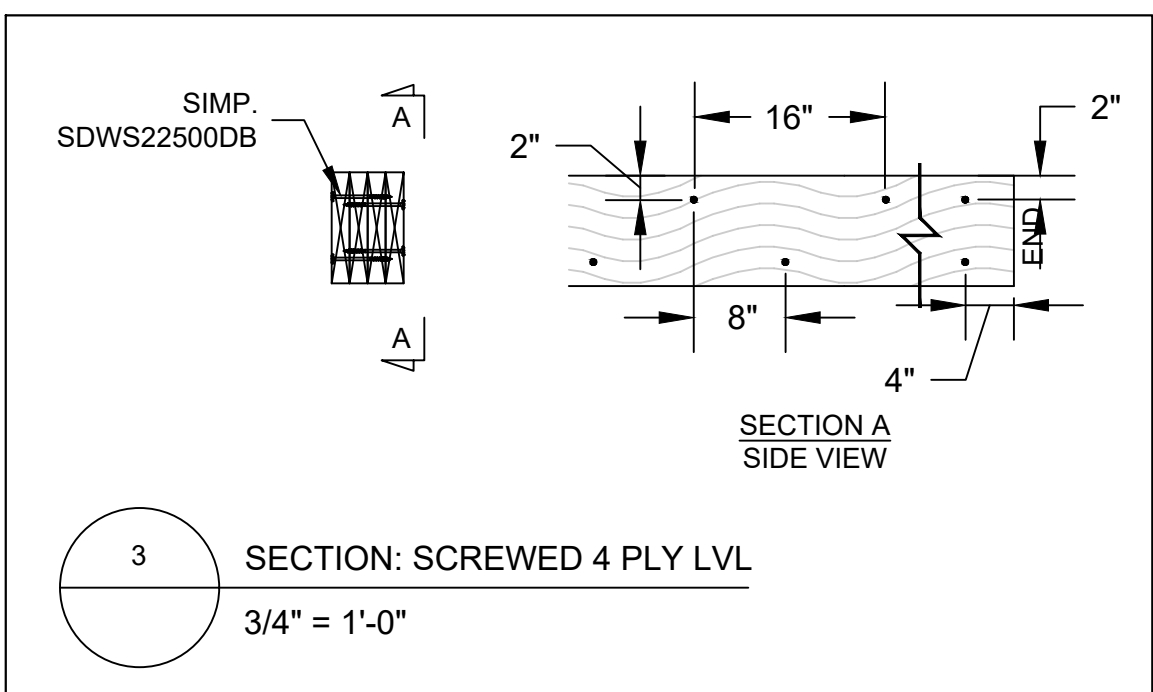


PROJECT DETAILS	
CLIENT:	WHITTENTON BUILDERS
CLIENT EMAIL:	
SCOPE OF WORK:	STRUCTURAL PLANS
ADDRESS:	ATHRIUM 2275
NOTES:	

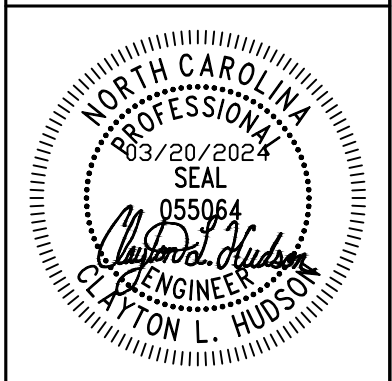
SPECIFICATIONS
SCALE:
PROJECT #
24-7-1-1
SHEET #
<b>S100</b>

REV. #	BY	DATE
0	CLH	02/10/24
1	CLH	03/20/24

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 ENDURE ENGINEERING, PLLC (P-26652)  
 2309 FURLONG PL., EASTOVER, NC 28312  
 (910) 850-4043  
 www.endureengineering.com



REV. #	BY	DATE	PROJECT DETAILS
0	CLH	02/10/24	CLIENT: WHITTENTON BUILDERS
1	CLH	03/20/24	CLIENT EMAIL: _____
			SCOPE OF WORK: STRUCTURAL PLANS
			ADDRESS: ATHRIUM 2275
			NOTES:

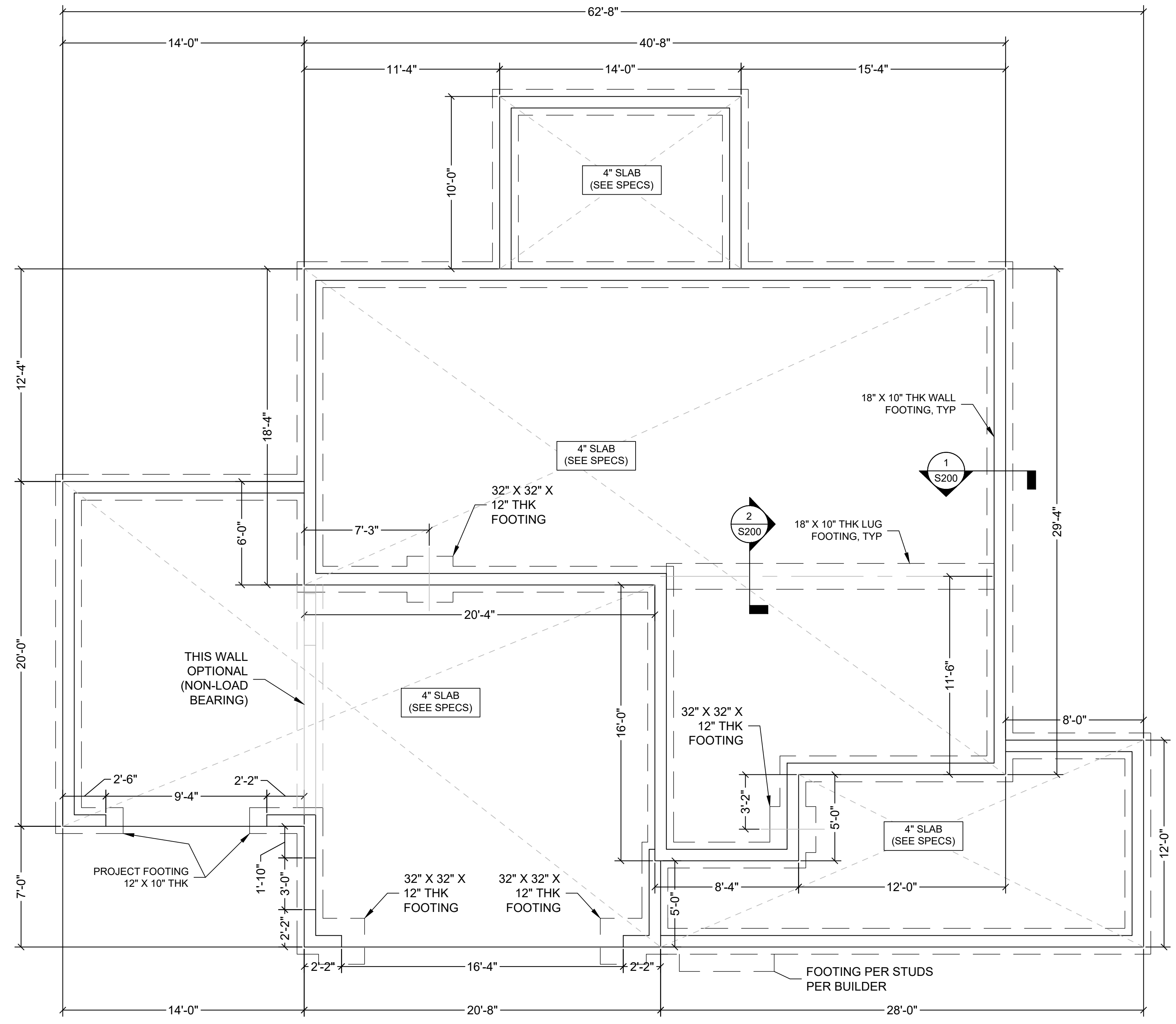
DETAILS

SCALE: \_\_\_\_\_

PROJECT #  
24-7-1-1

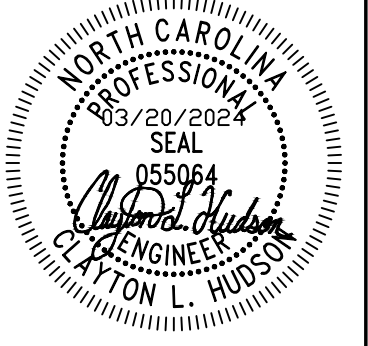
SHEET #  
**S200**

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**NOTES**

- 1/2 MIN. Ø ANCHOR BOLTS / 6'-0" O.C. SPACING / 12" MAX FROM CORNERS / 2 BOLT MIN. PER PLATE SECTION INSTALLED IN MIDDLE THIRD OF PLATE. 7" MIN. EMBED ( SECTION R403.1.6 OF NCRBC)



PROJECT DETAILS	
CLIENT:	WHITTENTON BUILDERS
CLIENT EMAIL:	
SCOPE OF WORK:	STRUCTURAL PLANS
ADDRESS:	ATHRIUM 2275
NOTES:	

REV. #	BY	DATE
0	CLH	02/10/24
1	CLH	03/20/24

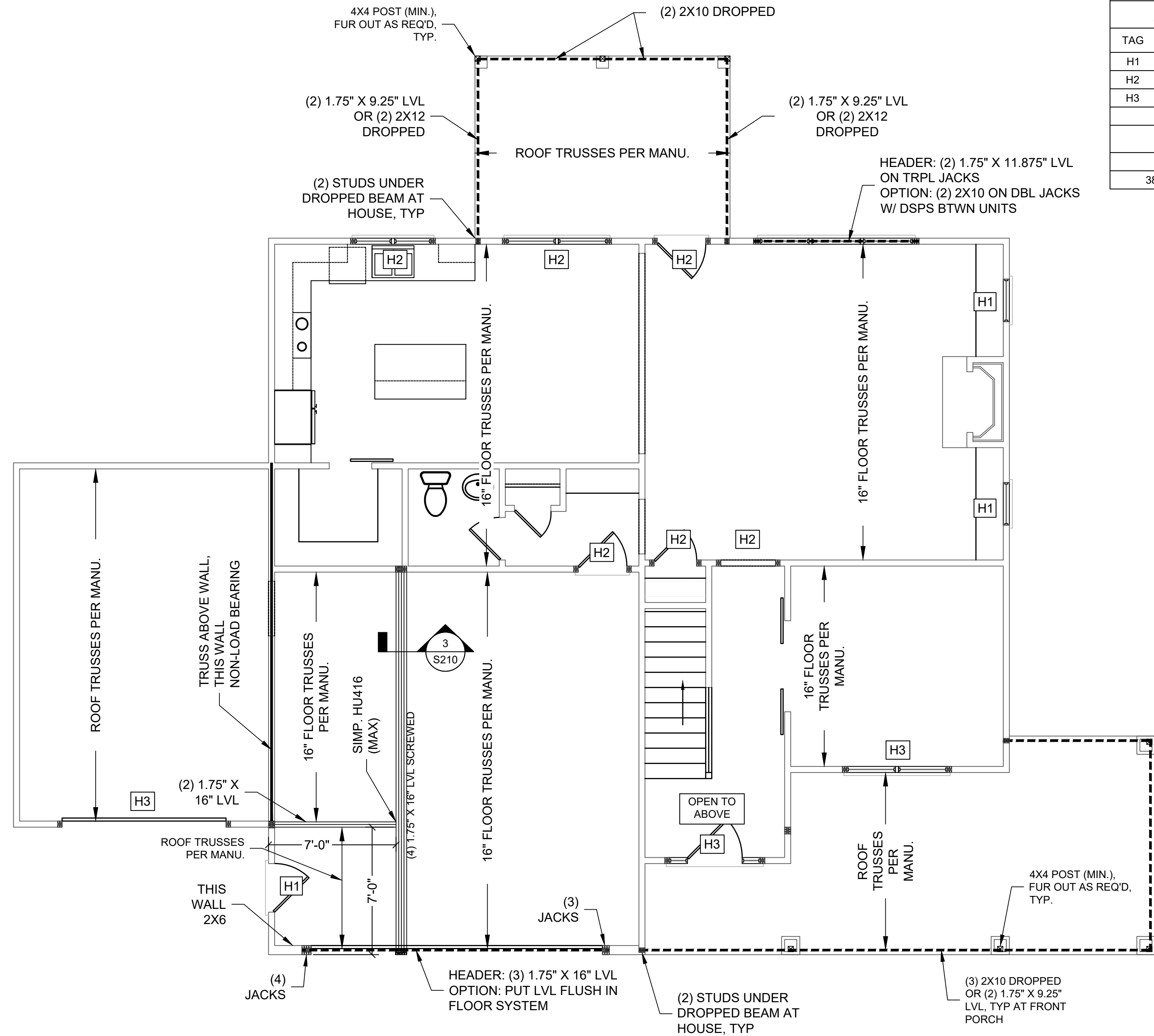
FOUNDATION PLAN

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

PROJECT #  
24-7-1-1

SHEET #  
**S300**

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**FRAMING NOTES**

- BEAMS ARE ASSUMED TO BE SET BOTTOM FLUSH WITH FLOOR SYSTEM UNO
- BEAMS SHALL BE SUPPORTED BY A CENTERED GANGED STUD COLUMN MATCHING OR EXCEEDING THE WIDTH OF THE BEAM, UNO.
- EXTERIOR WALLS TO BE CONTINUOUSLY SHEATHED (SEE SPECS)

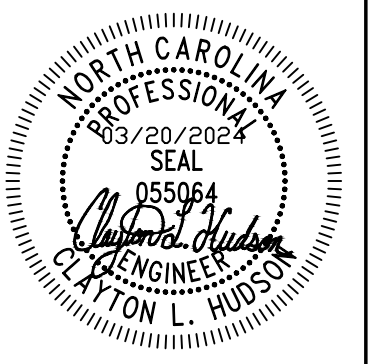
**1ST FLOOR HEADER SCHEDULE**

LOAD BEARING HEADERS (LABELED)	
TAG	DESCRIPTION
H1	(2) 2X10 ON SINGLE JACKS
H2	(2) 2X10 ON DBL JACKS
H3	(2) 1.75" X 9.25" LVL ON DBL JACKS

**NON-LOAD BEARING HEADERS:**

0" - 38" OPENINGS: SINGLE 2X4 TURNED FLAT
38" TO 72" OPENINGS: DBL 2X4 ON SINGLE JACKS

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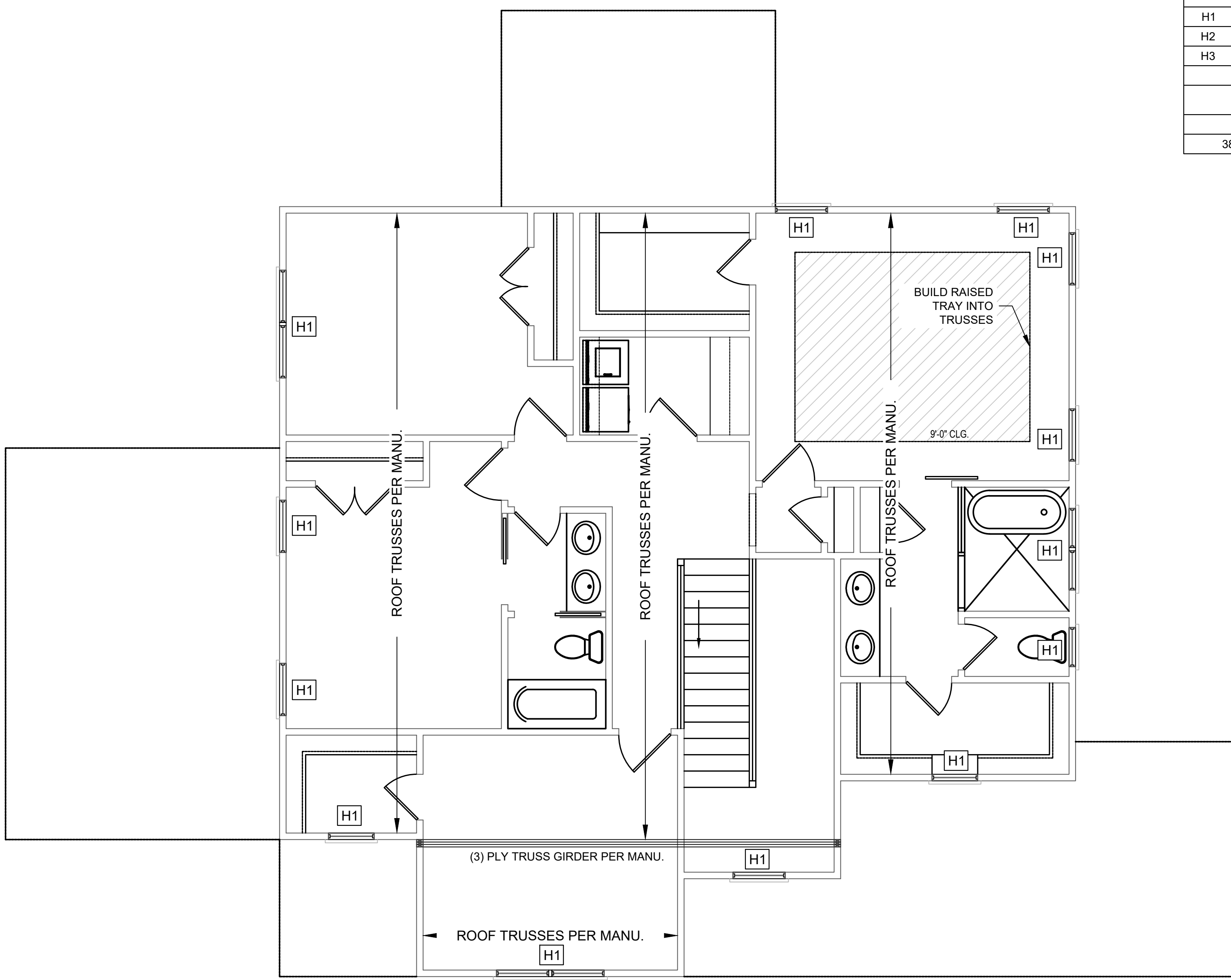


REV. #	BY	DATE	PROJECT DETAILS
0	CLH	02/10/24	CLIENT: WHITTENTON BUILDERS
1	CLH	03/20/24	CLIENT EMAIL:
			SCOPE OF WORK: STRUCTURAL PLANS
			ADDRESS: ATHRIUM 2275
			NOTES:

**1ST FLOOR WALLS AND CEILING PLAN**  
 SCALE: 1/4" = 1'-0"  
 PROJECT # 24-7-1-1  
 SHEET # **S310**

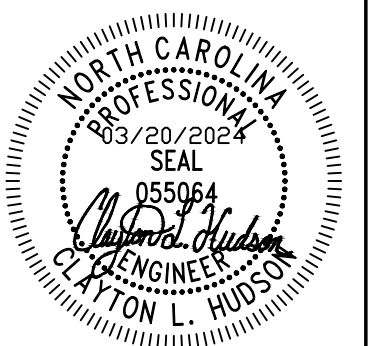


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- ### FRAMING NOTES
- BEAMS ARE ASSUMED TO BE SET BOTTOM FLUSH WITH FLOOR SYSTEM UNO
  - BEAMS SHALL BE SUPPORTED BY A CENTERED GANGED STUD COLUMN MATCHING OR EXCEEDING THE WIDTH OF THE BEAM, UNO.
  - EXTERIOR WALLS TO BE CONTINUOUSLY SHEATHED (SEE SPECS)

1ST FLOOR HEADER SCHEDULE	
LOAD BEARING HEADERS (LABELED)	
TAG	DESCRIPTION
H1	(2) 2X10 ON SINGLE JACKS
H2	(2) 2X10 ON DBL JACKS
H3	(2) 1.75" X 9.25" LVL ON DBL JACKS
<b>NON- LOAD BEARING HEADERS:</b>	
0" - 38" OPENINGS: SINGLE 2X4 TURNED FLAT	
38" TO 72" OPENINGS: DBL 2X4 ON SINGLE JACKS	



REV. #	BY	DATE	PROJECT DETAILS
0	CLH	02/10/24	CLIENT: WHITTENTON BUILDERS
1	CLH	03/20/24	CLIENT EMAIL:
			SCOPE OF WORK: STRUCTURAL PLANS
			ADDRESS: ATHRIUM 2275
			NOTES:

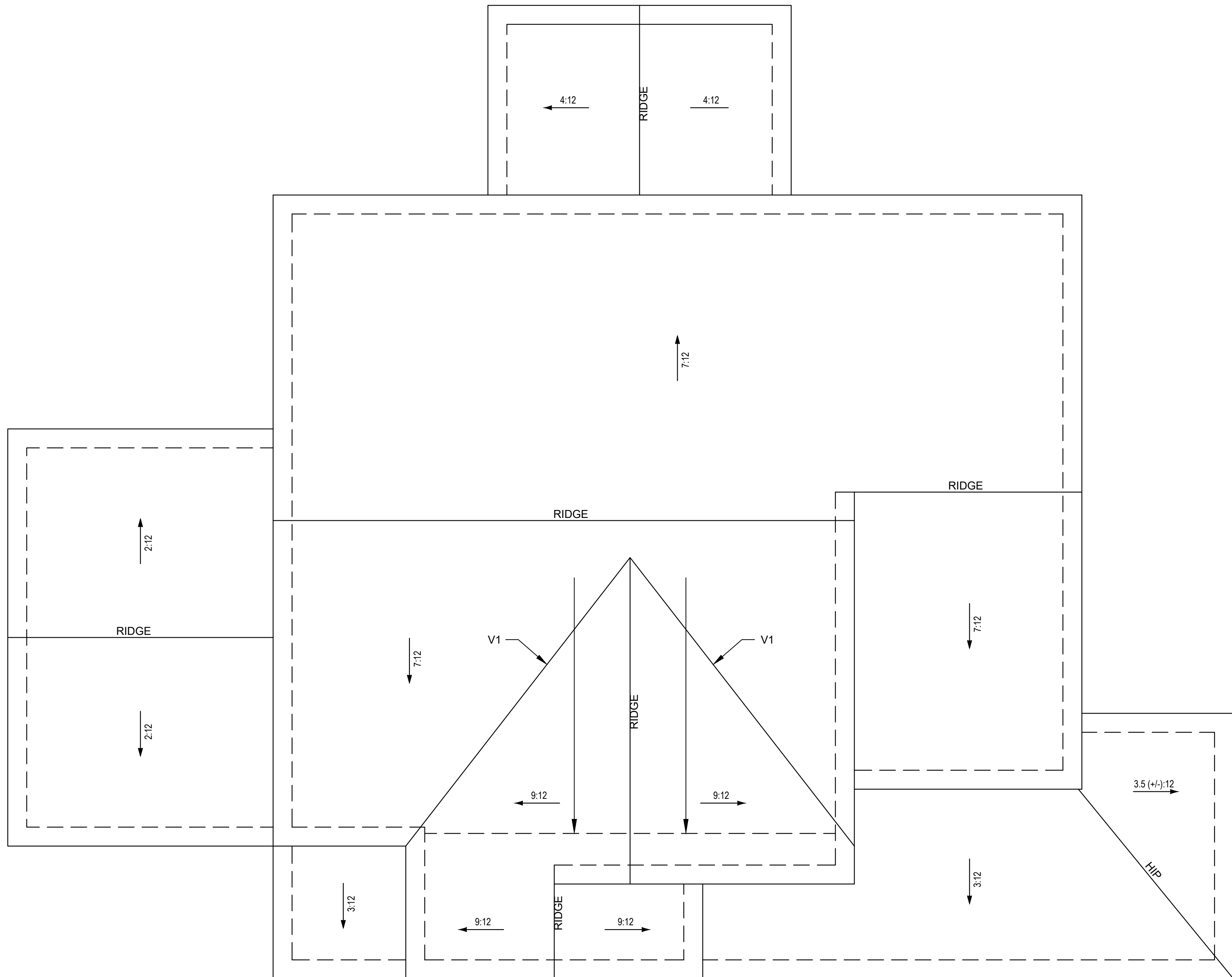
**2ND FLOOR WALLS AND CEILING PLAN**

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

PROJECT #  
24-7-1-1

SHEET #  
**S320**

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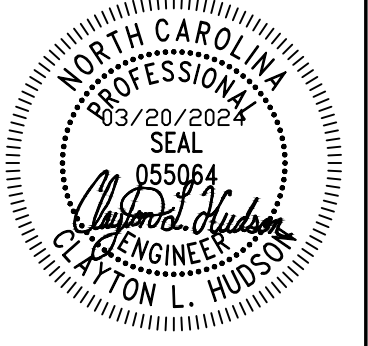
**ROOF FRAMING NOTES**

- ROOF TRUSSES DESIGNED PER MANU.
- ROOF PITCHES, KNEEWALLS, AND OVERHANGS TO BE VERIFIED WITH ARCH. DRAWINGS

**ROOF PLAN LEGEND**

NOTATION	DESCRIPTION
V1	VALLEY SET TRUSSES

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REV. #	BY	DATE	PROJECT DETAILS
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1	CLH	03/20/24	CLIENT EMAIL:
			SCOPE OF WORK: STRUCTURAL PLANS
			ADDRESS: ATHRIUM 2275
			NOTES:

**ROOF FRAMING PLAN**  
 SCALE: 1/4" = 1'-0"  
 PROJECT # 24-7-1-1  
 SHEET # S330