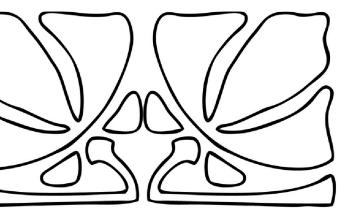
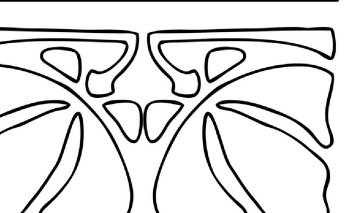


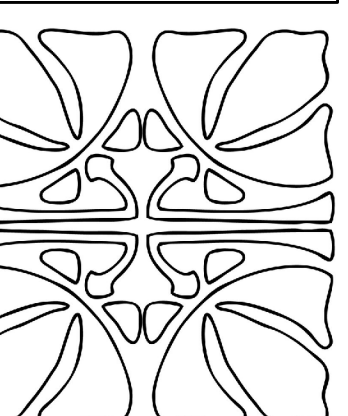
MILLER RESIDENCE



CIDER HOUSE STUDIO, INC.
424 E. MAIN ST.
CLAYTON, NC 27520
919.624.4776



WHITTENTON BUILDERS



FRONT ELEVATION
3/16" = 1'-0"

NOTICE TO CONTRACTOR
All contractor 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

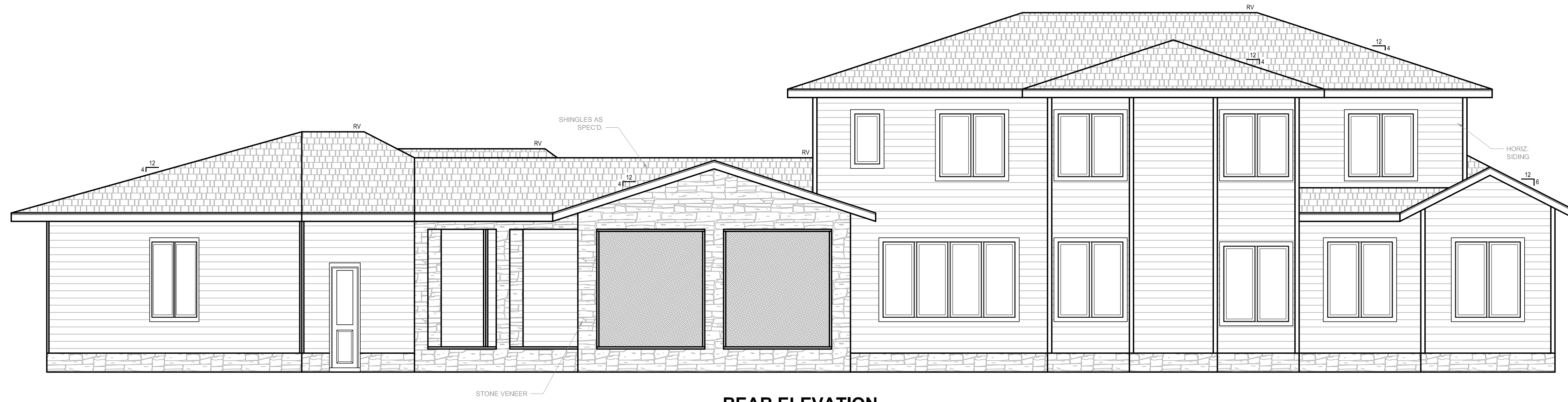
01/26/2023




ENGINEERED



RIGHT ELEVATION
3/16" = 1'-0"



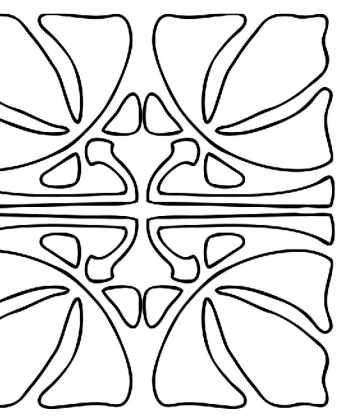
REAR ELEVATION

3/16" = 1'-0"

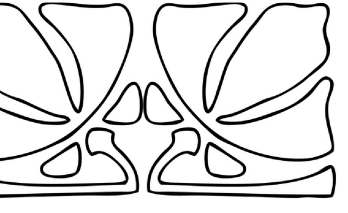


LEFT ELEVATION

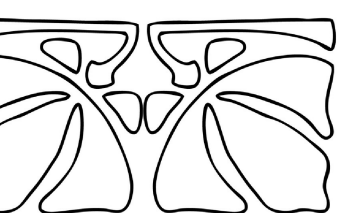
3/16" = 1'-0"



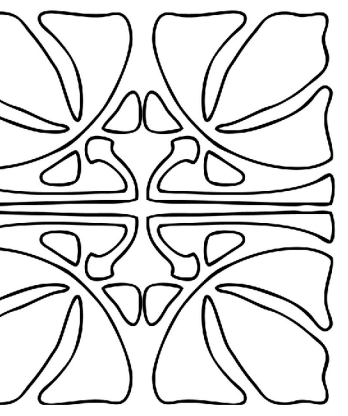
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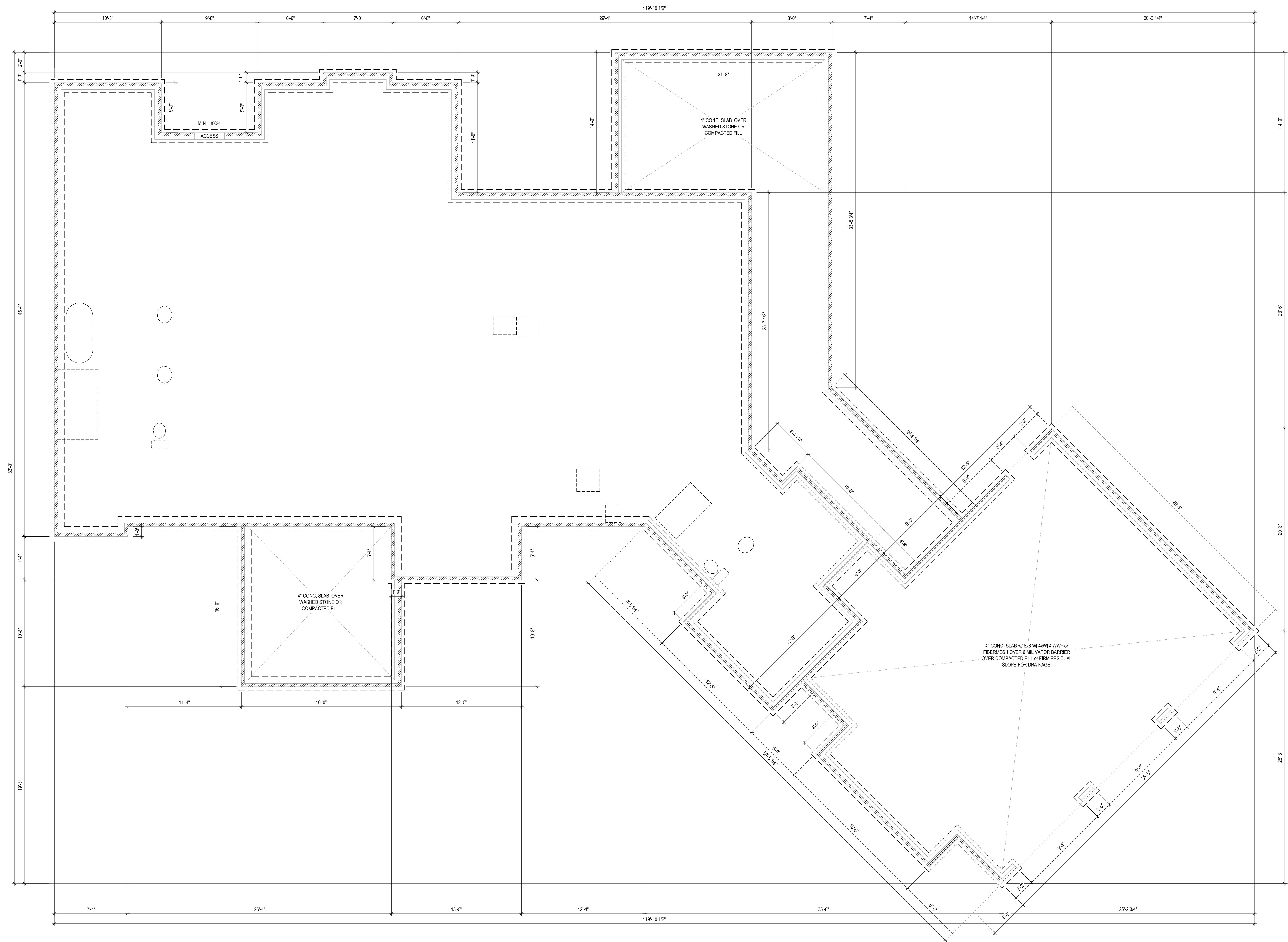
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WHITTENTON BUILDERS



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FOUNDATION PLAN

3/16" = 1'-0"

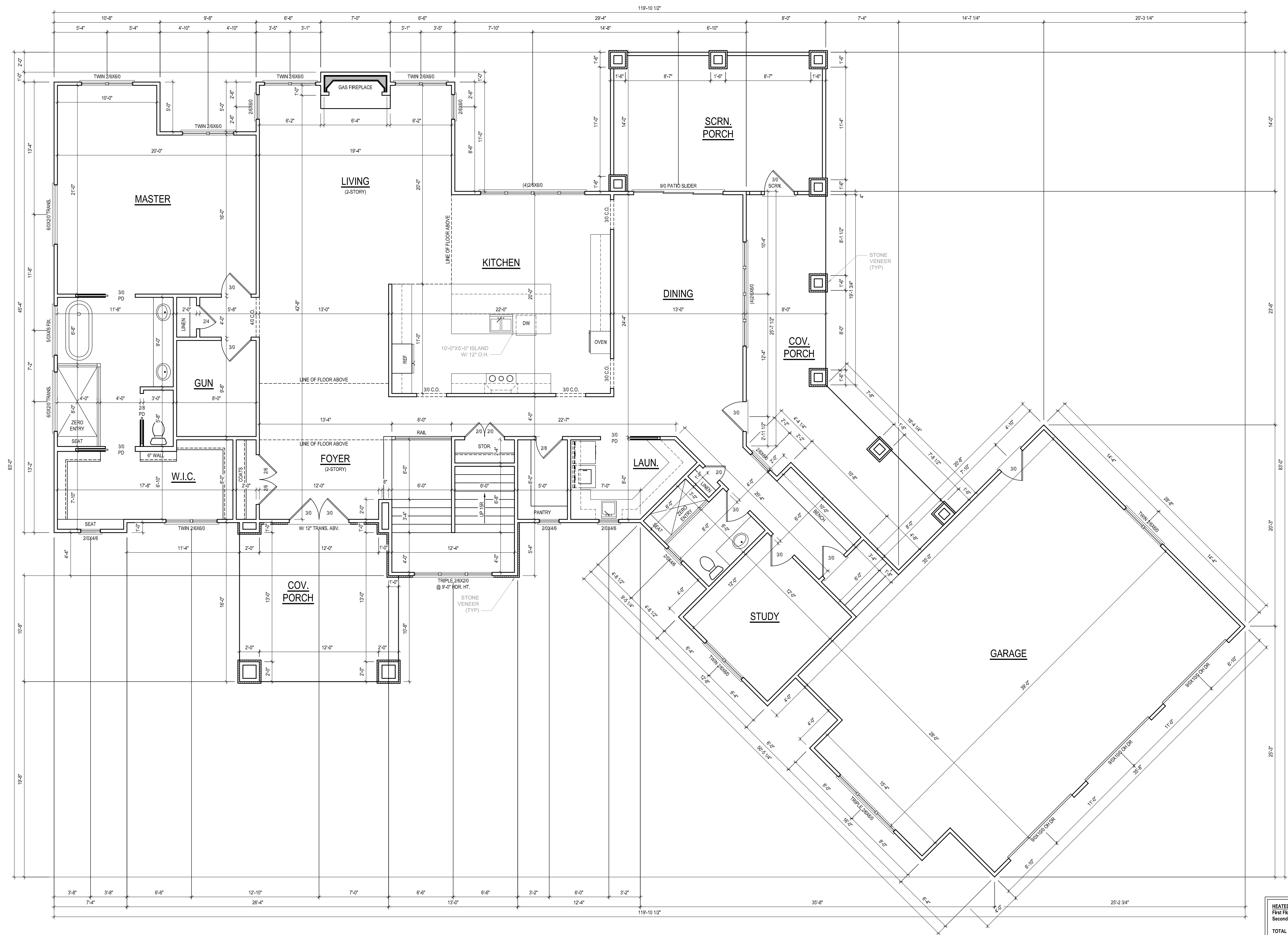
*ALL LUMBER TO BE #2 SYP, UNK

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WHITTENTON BUILDERS

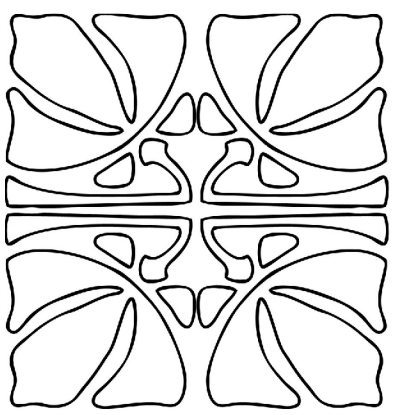
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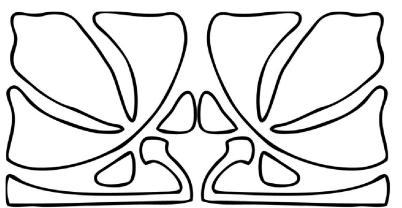
FIRST FLOOR PLAN
 3/16" = 1'-0" CEILING HGT. = 10'-0"
 *ALL LUMBER TO BE #2 SYP. UNO
 ALL WALLS TO BE 4" THICK

HEATED SF	
First Floor	3077
Second Floor	1208
TOTAL HEATED	4285
UNHEATED SF	
Garage	1113
Front Porch	251
Screened Porch	306
Side Porch	337

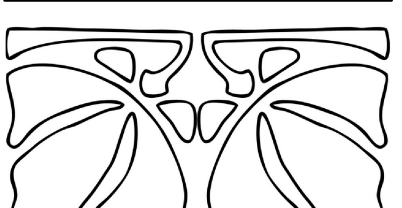
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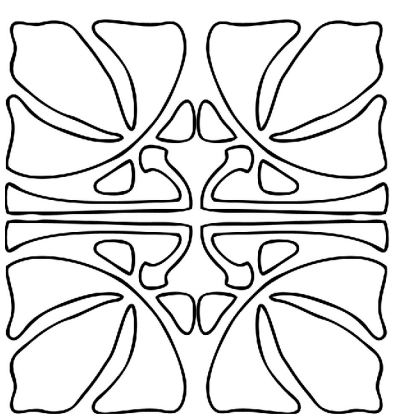
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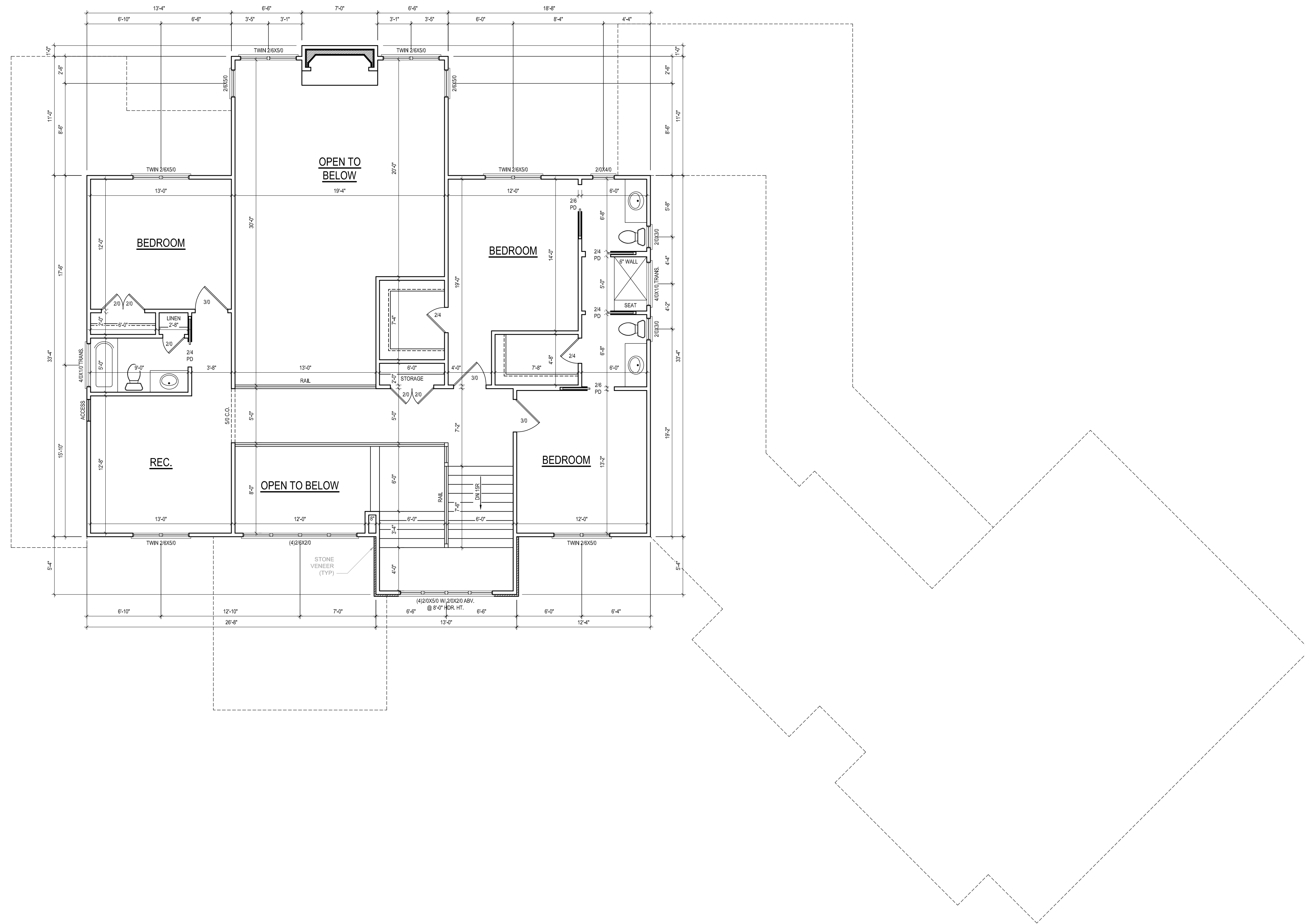


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WHITTENTON BUILDERS

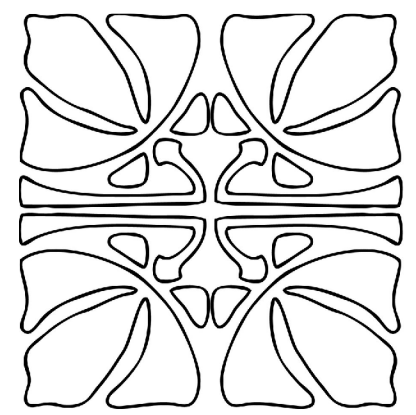




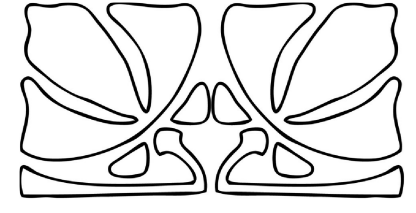
SECOND FLOOR PLAN

3/16" = 1'-0" CEILING HGT. = 9'-0"

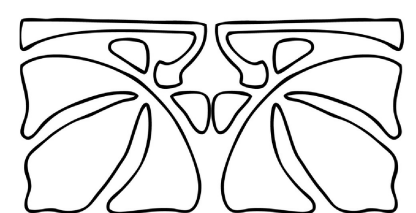
*ALL LUMBER TO BE #2 SYP. UNDO
ALL WALLS TO BE 4" THICK



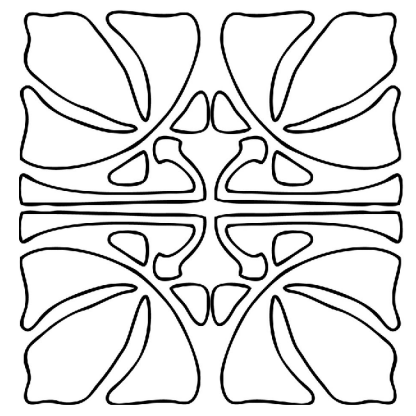
MILLER RESIDENCE



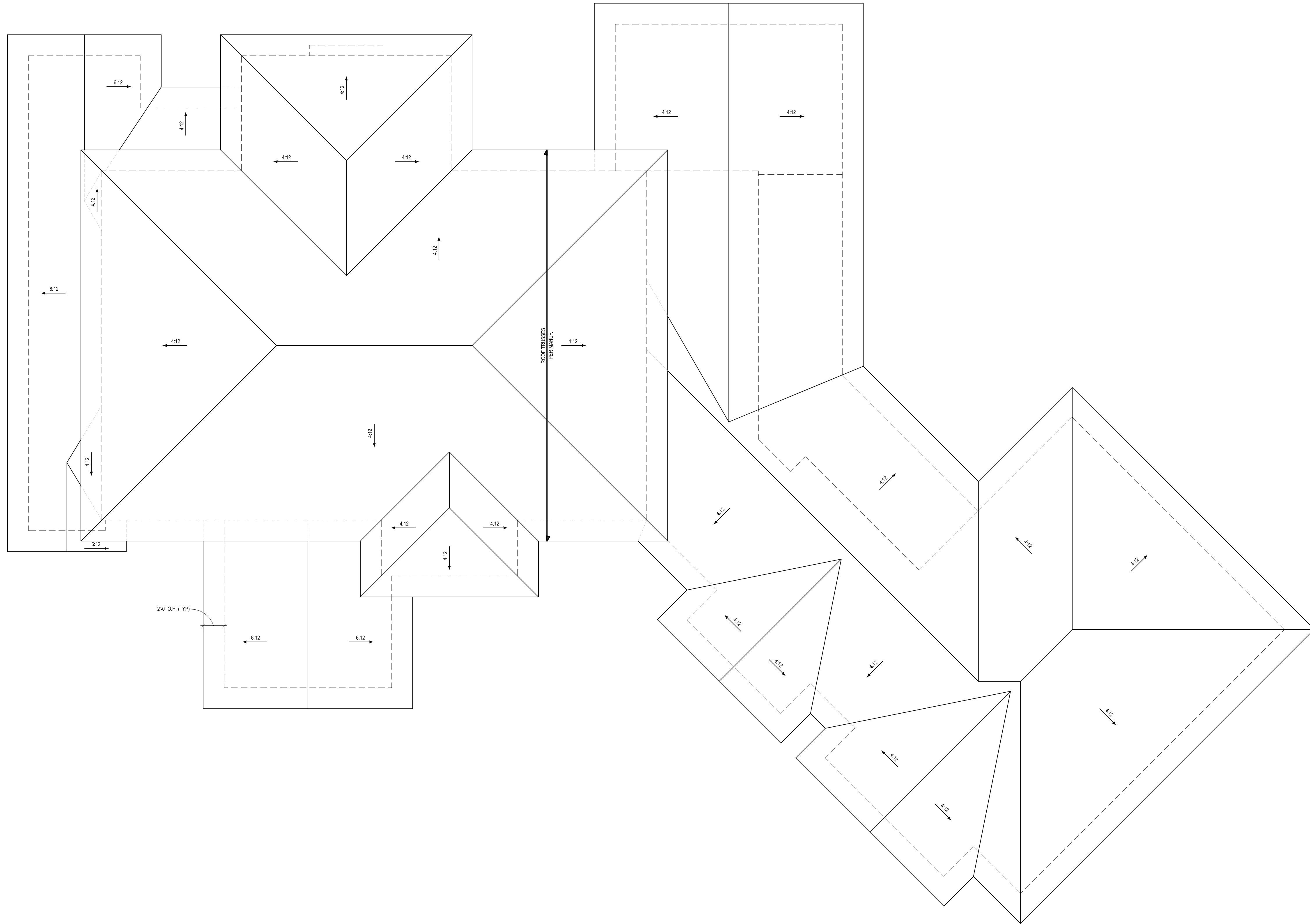
CIDER HOUSE STUDIO, INC.
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WHITTENTON BUILDERS

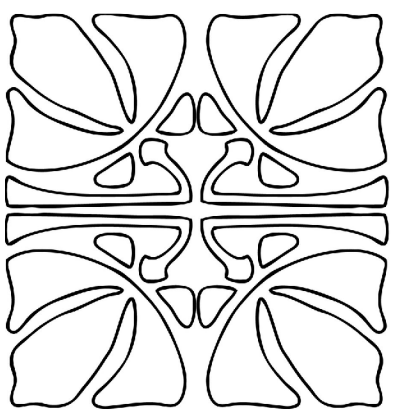


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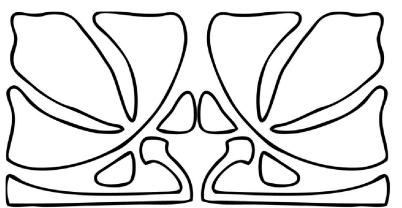


ROOF PLAN
 3/16" = 1'-0"
 *ALL LUMBER TO BE #2 SYP. UNO
 BUILDER MAY USE ROOF TRUSSES, TRUSS DESIGN, LAYOUT, AND
 ENGINEERING TO BE PROVIDED BY TRUSS MANUFACTURER.

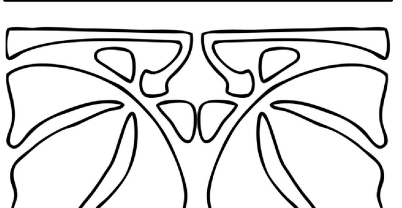
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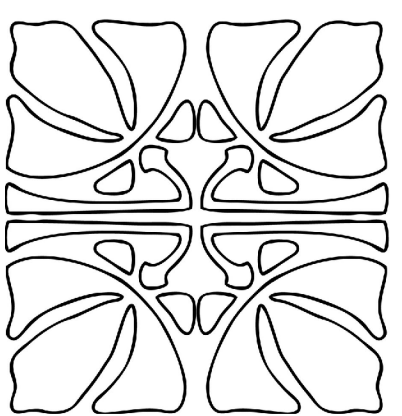
MILLER RESIDENCE



CIDER HOUSE STUDIO, INC.
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 CLAYTON, NC 27520
 919.624.4776



WHITTENTON BUILDERS



GENERAL STRUCTURAL SPECIFICATIONS

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APPLICABLE DESIGN CODES:

2018 NORTH CAROLINA STATE RESIDENTIAL BUILDING CODE

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.

REINFORCEMENT

- REINFORCEMENT SHALL BE GRADE 60 AND CONFORM TO ASTM A615. SEE THE "MANUAL OF STEEL PRACTICE", LATEST EDITION, FOR DETAILING, FABRICATION, AND PLACEMENT PRACTICES
- REINFORCEMENT LAP SPLICES SHALL BE CLASS B AS DEFINED BY ACI 318, TYP UNO

MINIMUM LAP SPLICES	
REBAR SIZE	MIN. LAP SPLICE (IN)
#4	18"

- MINIMUM CONCRETE COVER FOR REINFORCEMENT (UNO)
 - EXPOSED TO EARTH = 2" MIN.
 - ALL OTHER = 1.5" MIN.

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.

STRUCTURAL STEEL

- STEEL MEMBERS AND MINIMUM GRADE:
 - W-SHAPES = A992 (50 KSI)
 - SQ/RECT. HSS = A500 GRADE B (48 KSI)
 - ROUND HSS = A500 GRADE B (42 KSI)
 - PIPE = A53 GRADE B, (35 KSI)
 - OTHER SHAPES = A36 (36 KSI)
 - BOLTS = A325 (90 KSI)
 - THREADED RODS = A36 (36 KSI)
- STRUCTURAL STEEL CONSTRUCTION SHALL MEET THE REQUIREMENTS OF THE AISC SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS.
- STRUCTURAL MEMBERS SHOULD BE HOT-DIP GALVANIZED PER ASTM A123, UNLESS NOTED OTHERWISE
- FENCE POSTS SHALL BE ASTM F1083 (SCH. 40) OR ASTM F1043 UNLESS NOTED OTHERWISE ON THE PLANS

WELDING

- WELDING ELECTRODES = E70XX
- WELDING MUST PERFORMED BY AN AWS CERTIFIED WELDER

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.

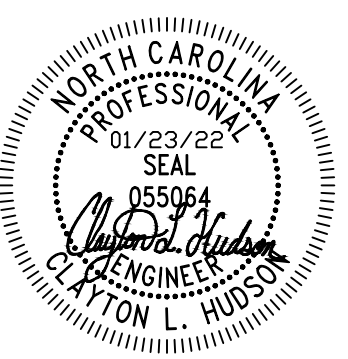
ADDITIONAL NOTES

- 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.

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	TERM
ABV	ABOVE
BE	BOTH ENDS
BTWN	BETWEEN
BW	BOTH WAYS
CLR	CLR
CONC	CONCRETE
DIA	DIAMETER
DBL	DOUBLE
EQ	EQUAL
EA	EACH
FLG	FLANGE
FND	FOUNDATION
HDG	HOT-DIPPED GALVANIZED
MSN	MASONRY
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
PL	PLATE
STD	STANDARD
SQ	SQUARE
THK	THICK
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
XJ	EXTRA JOIST
XS	EXTRA STRONG



PROJECT DETAILS	
CLIENT:	WHITTENTON BUILDERS
CLIENT EMAIL:	craig@whittentonbuilders.com
SCOPE OF WORK:	STRUCTURAL PLANS
ADDRESS:	61 ROCK RIDGE PLACE, COATS NC 27521
NOTES:	MILLER RESIDENCE

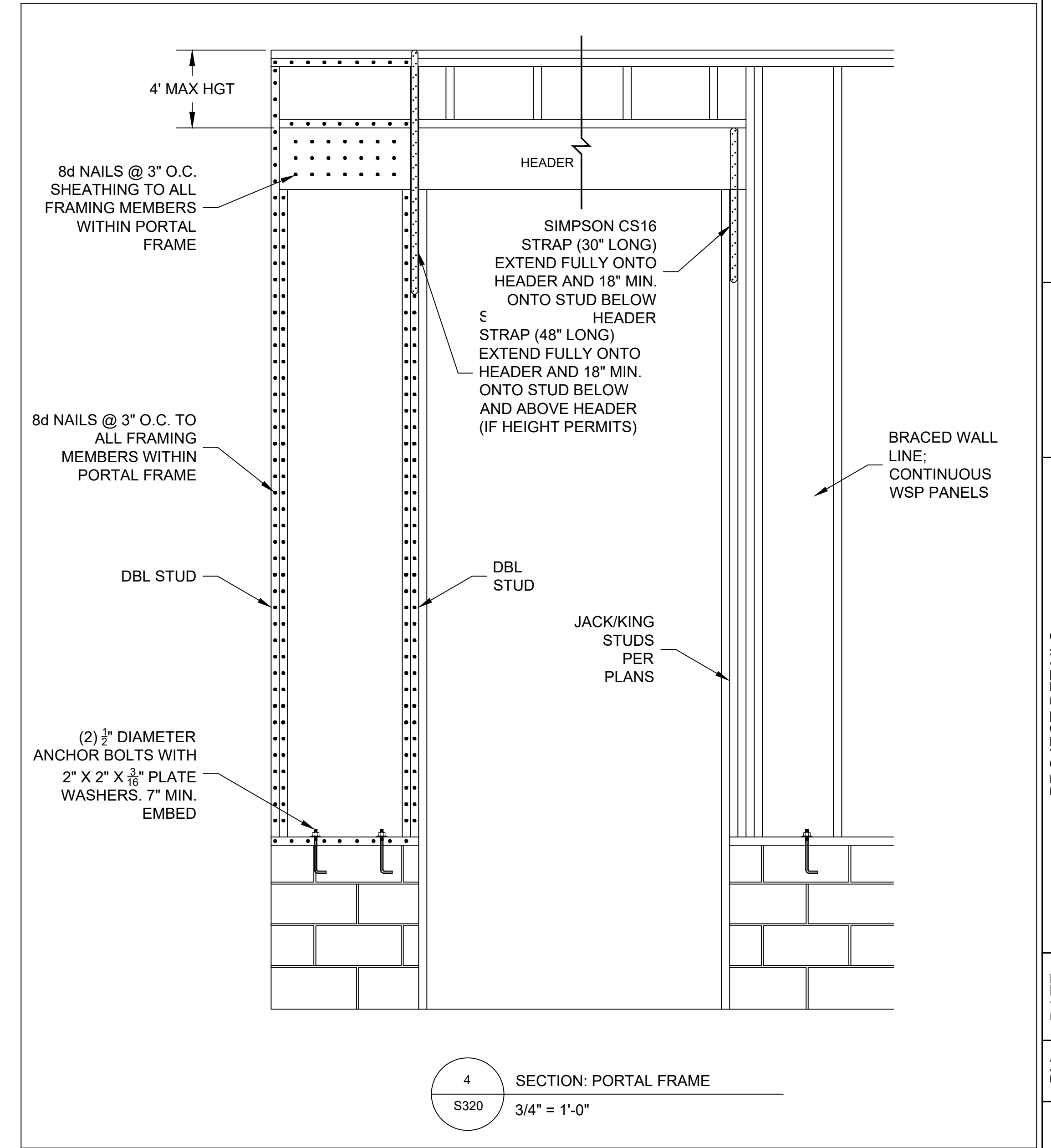
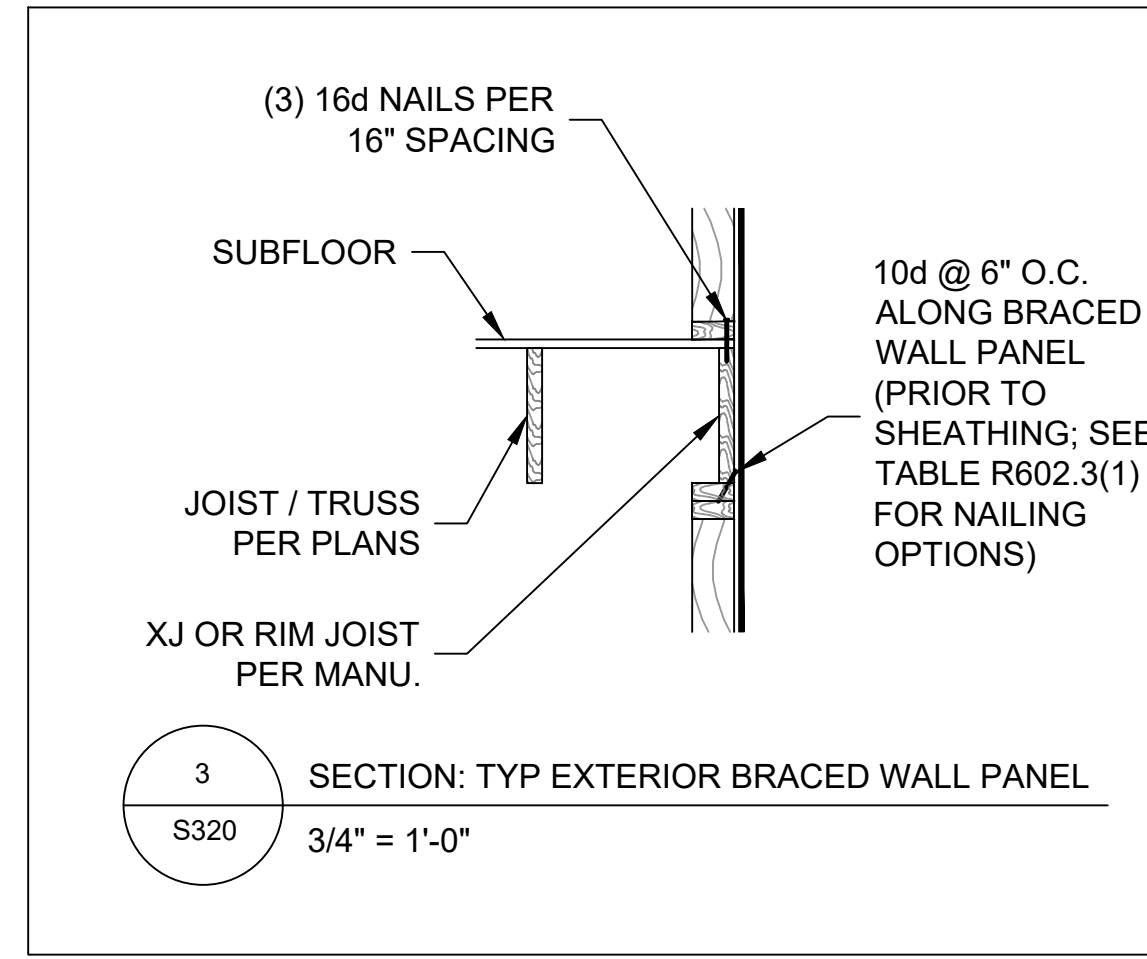
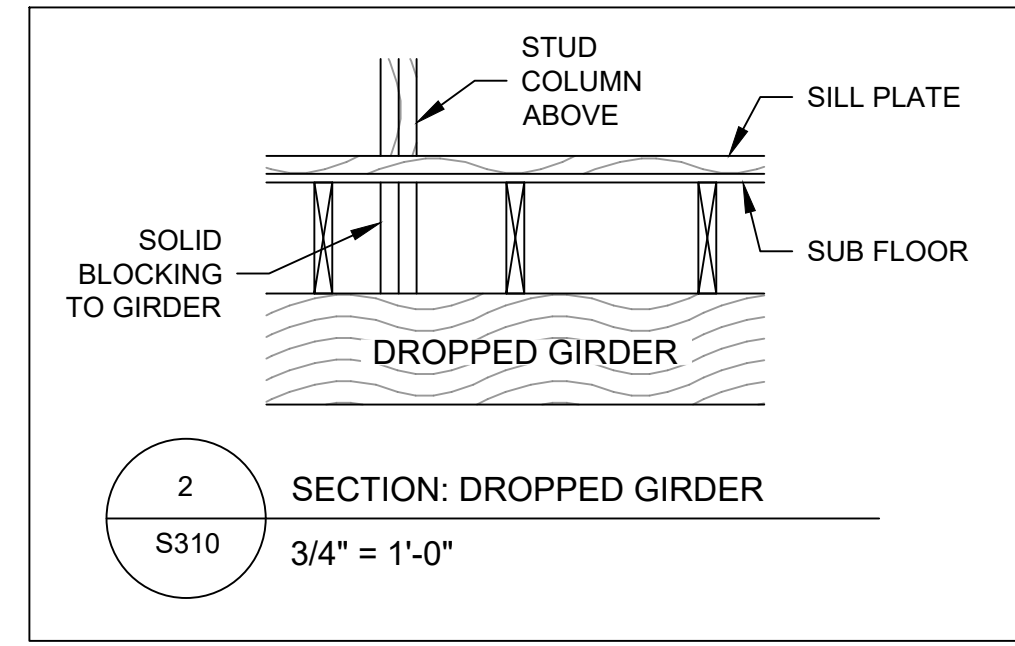
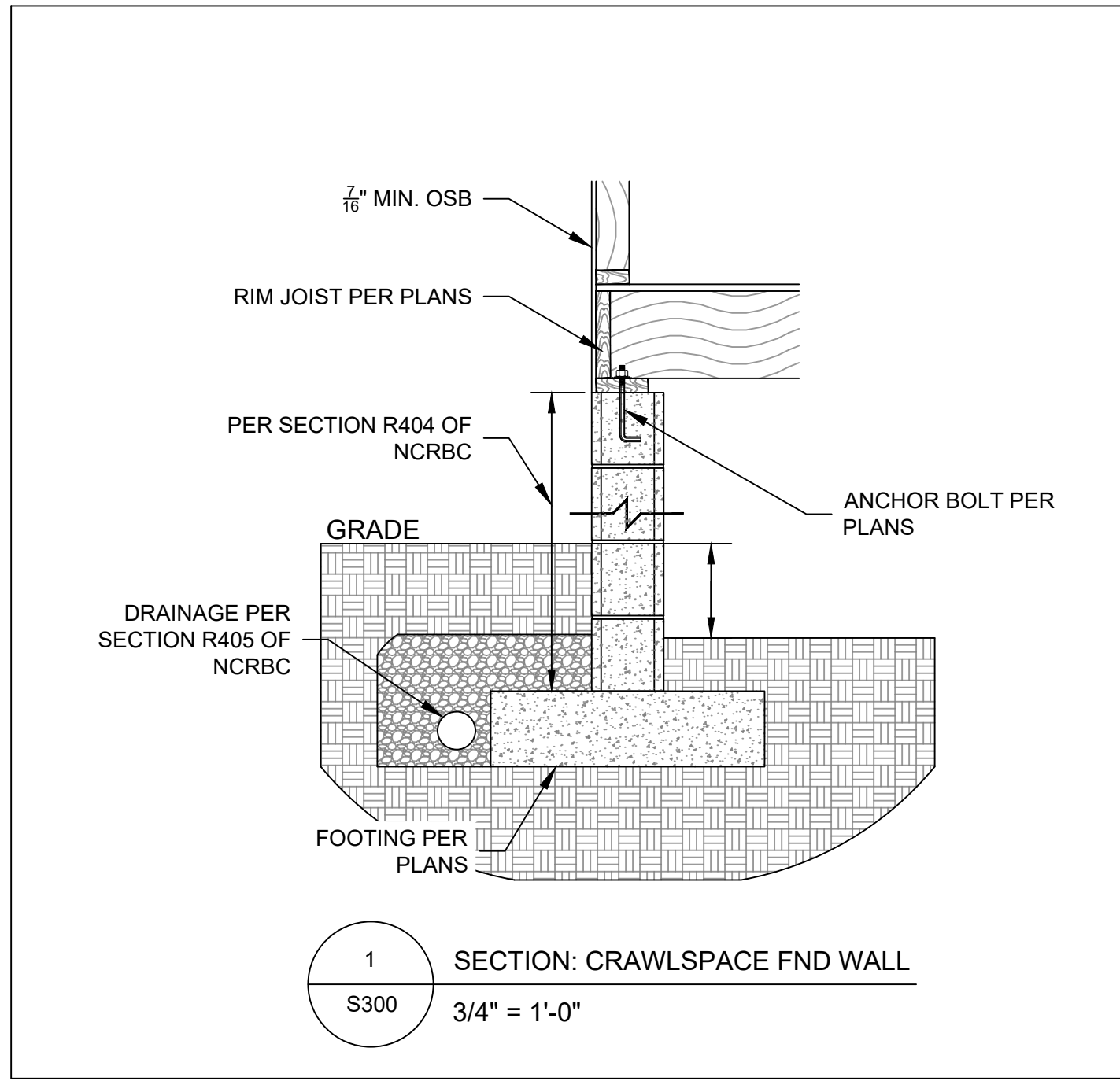
REV #	DESCRIPTION	BY	DATE
0	STRUCTURAL PLANS AND FOUNDATION	CLH	01/23/22

SPECIFICATIONS

SCALE:

PROJECT #
22-7-1-1
SHEET #
S100

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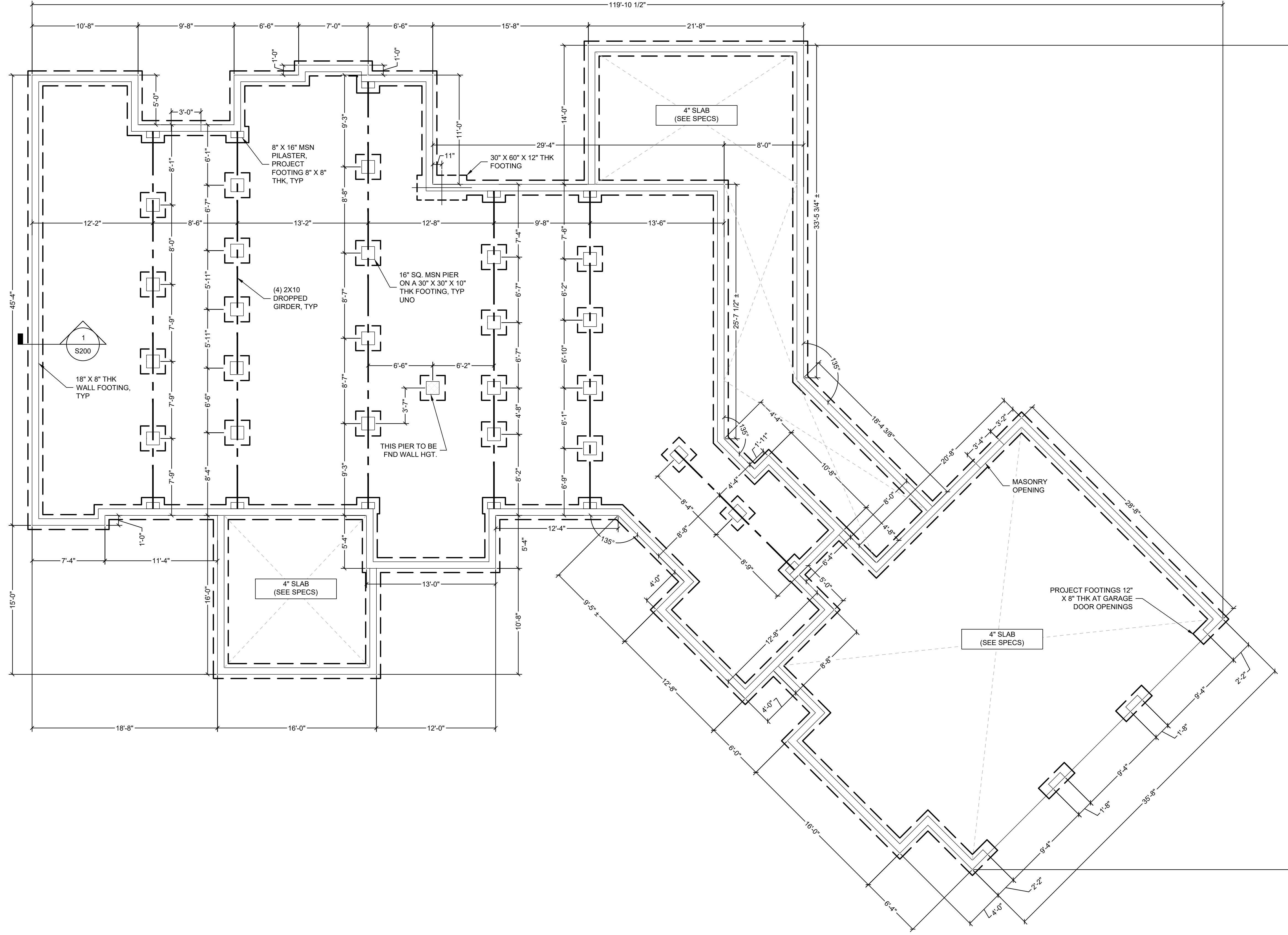


PROJECT DETAILS	
CLIENT:	WHITTENTON BUILDERS
CLIENT EMAIL:	craig@whittentonbuilders.com
SCOPE OF WORK:	STRUCTURAL PLANS
ADDRESS:	61 ROCK RIDGE PLACE, COATS NC 27521
NOTES:	MILLER RESIDENCE

REV. #	DESCRIPTION	BY	DATE
0	STRUCTURAL PLANS AND FOUNDATION	CLH	01/23/22

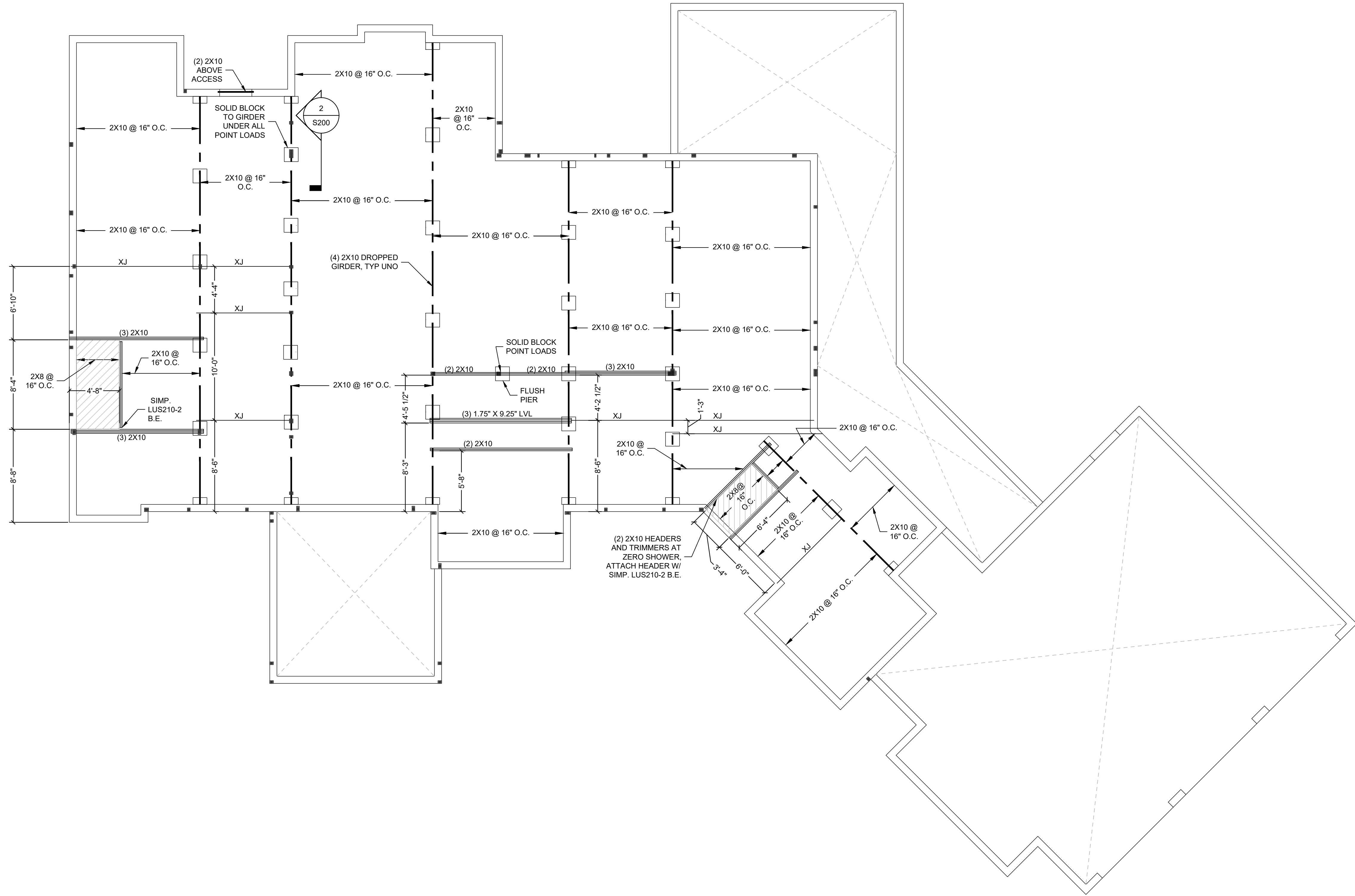
DETAILS	SCALE:
PROJECT # 22-7-1-1	
SHEET # S200	

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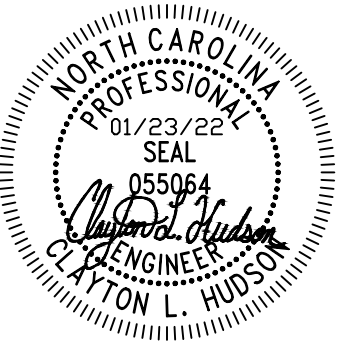
<p>FOUNDATION PLAN</p> <p>PROJECT # 22-7-1-1</p> <p>SHEET # S300</p> <p>SCALE: 3/16" = 1'-0"</p>		<p>REV. # 0</p>	<p>DESCRIPTION STRUCTURAL PLANS AND FOUNDATION</p>	<p>BY CLH</p>	<p>DATE 01/23/22</p>	<p>PROJECT DETAILS CLIENT: WHITTENTON BUILDERS CLIENT EMAIL: craig@whittentonbuilders.com SCOPE OF WORK: STRUCTURAL PLANS ADDRESS: 61 ROCK RIDGE PLACE, COATS NC 27521 NOTES: MILLER RESIDENCE</p>
		<p>ENDURE ENGINEERING ENDURE ENGINEERING, PLLC (P-2652) 3325 DERBYSHIRE PL, RALEIGH, NC 27604 (910) 850-4043 www.endureengineering.com</p> <p>NORTH CAROLINA PROFESSIONAL SEAL 01/23/22 05504 KAYON L. HUDSON ENGINEER</p>				

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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)



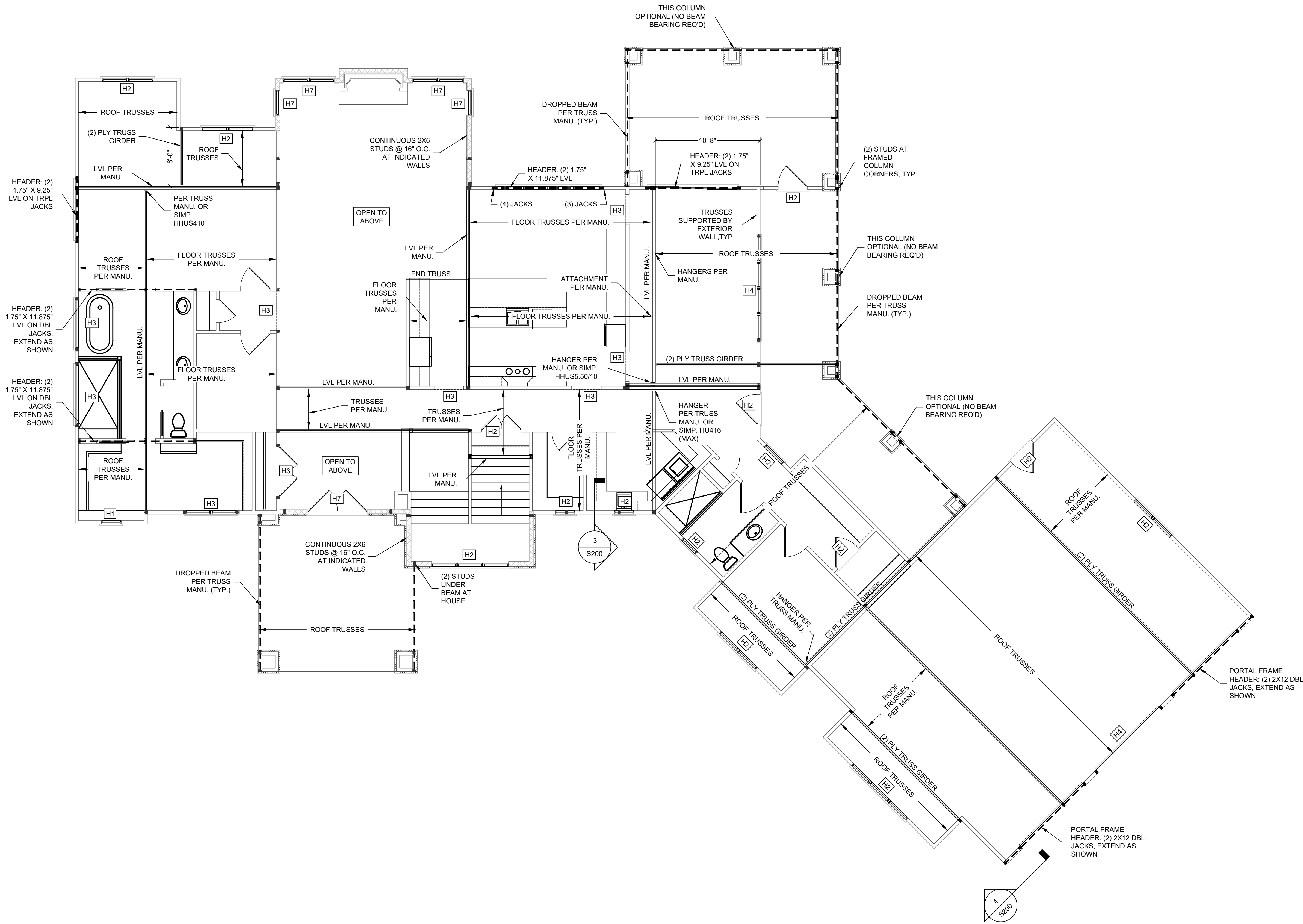
REV. #	DESCRIPTION	BY	DATE	PROJECT DETAILS
0	STRUCTURAL PLANS AND FOUNDATION	CLH	01/23/22	CLIENT: WHITTENTON BUILDERS CLIENT EMAIL: craig@whittentonbuilders.com SCOPE OF WORK: STRUCTURAL PLANS ADDRESS: 61 ROCK RIDGE PLACE, COATS NC 27521 NOTES: MILLER RESIDENCE

CRAWLSPACE FRAMING PLAN

SCALE: 3/16" = 1'-0"

PROJECT #
22-7-1-1
SHEET #
S310

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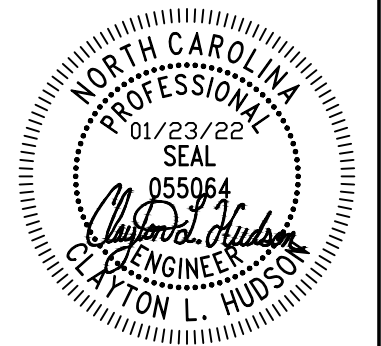


NOTES

- MAX STUD WALL HEIGHTS UNLESS STATED OTHERWISE:
 - 2X4 @ 16" O.C. = 11' - 0" MAX HEIGHT
 - 2X4 @ 12" O.C. = 12' - 0" MAX HEIGHT
 - 2X6 @ 16" O.C. = 13' - 0" MAX HEIGHT
 - 2X6 @ 12" O.C. = 18' - 0" MAX HEIGHT
- 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 SHEATHED W/ 7/8" OSB (MIN.)
 - PANEL EDGE NAILING: 6d NAILS @ 6" O.C.
 - INTERIOR OF PANEL NAILING: 6d NAILS @ 12" O.C.

HEADER SCHEDULE

LOAD BEARING HEADERS (LABELED)	
TAG	DESCRIPTION
H1	(2) 2X4 ON SINGLE JACKS
H2	(2) 2X10 ON SINGLE JACKS
H3	(2) 2X10 ON DBL JACKS
H4	(2) 2X12 ON DBL JACKS
H5	(2) 1.75" X 9.25" LVL ON DBL JACKS
H6	(2) 1.75" X 11.25" LVL ON DBL JACKS
H7	(3) 2X10 ON SINGLE JACKS
NON- LOAD BEARING HEADERS:	
0" - 38" OPENINGS: SINGLE 2X4 TURNED FLAT	
38" TO 72" OPENINGS: DBL 2X4 ON SINGLE JACKS	
KING STUDS FOR BRACED WALLS (BOTH SIDES OF OPENING)	
# STUDS	MAX OPENING
1	5'-0"
2	8'-0"
3	10'-0"
4	12'-0"
5	15'-0"



PROJECT DETAILS

CLIENT: WHITTENTON BUILDERS
 CLIENT EMAIL: craig@whittentonbuilders.com
 SCOPE OF WORK: STRUCTURAL PLANS
 ADDRESS: 61 ROCK RIDGE PLACE, COATS NC 27521
 NOTES: MILLER RESIDENCE

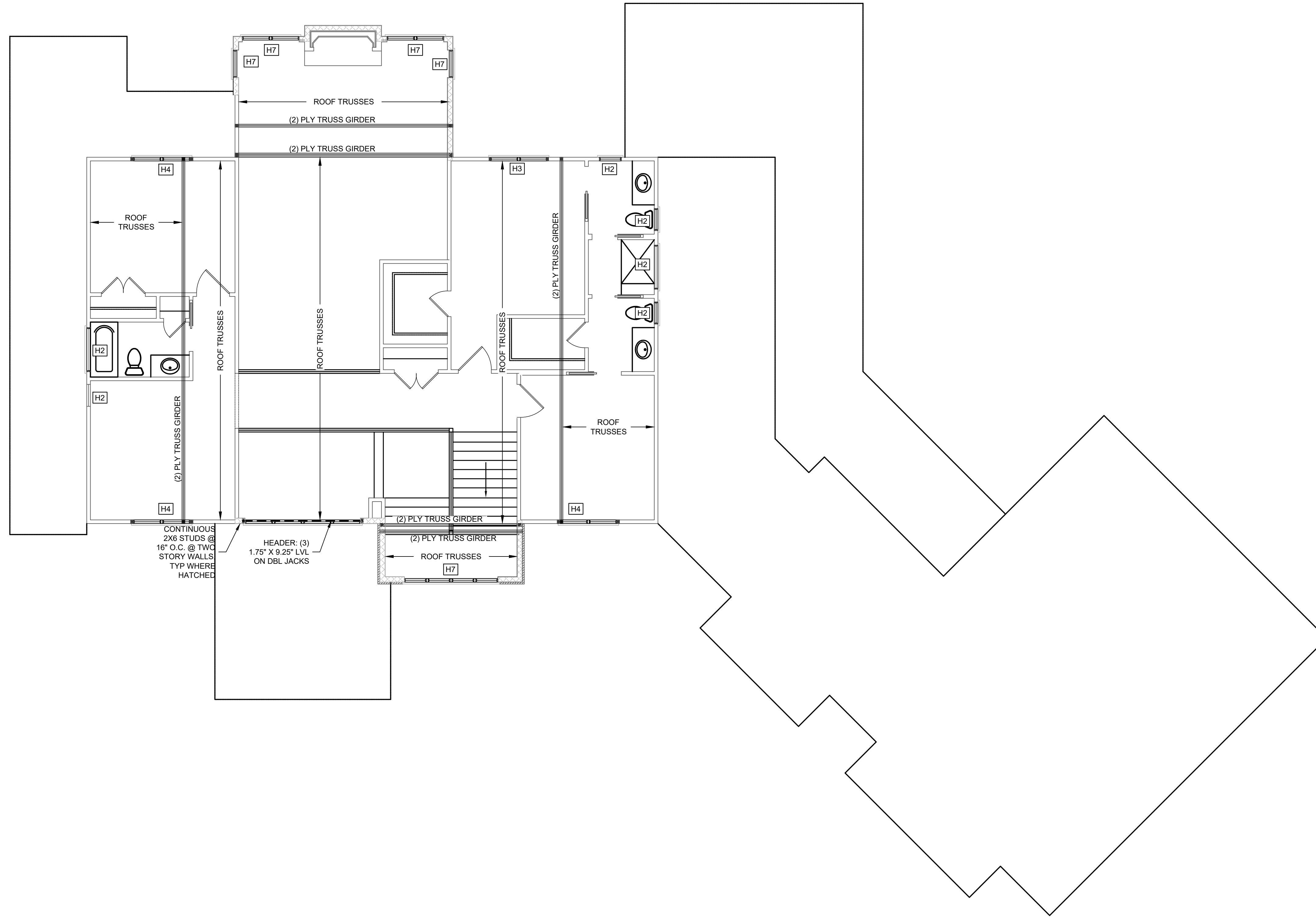
REV. #	DESCRIPTION	BY	DATE
0	STRUCTURAL PLANS AND FOUNDATION	CLH	01/23/22

1ST FLOOR (CEILING) FRAMING PLAN

SCALE: 3/16" = 1'-0"

PROJECT # 22-7-1-1
 SHEET # S320

THESE PLANS ARE INTENDED SOLELY FOR THE CLIENT LISTED AND DESIGNED SPECIFICALLY FOR THE ADDRESS GIVEN. CLIENT SHALL NOT COPY, REUSE, OR PERMIT EMPLOYEES AND/OR HIRED CONTRACTORS TO DISCLOSE INFORMATION IN THESE PLANS TO THIRD PARTIES WITHOUT WRITTEN PERMISSION FROM ENDURE ENGINEERING, PLLC.

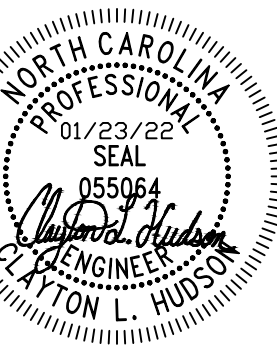


NOTES

- MAX STUD WALL HEIGHTS UNLESS STATED OTHERWISE:
 - 2X4 @ 16" O.C. = 11' - 0" MAX HEIGHT
 - 2X4 @ 12" O.C. = 12' - 0" MAX HEIGHT
 - 2X6 @ 16" O.C. = 13' - 0" MAX HEIGHT
 - 2X6 @ 12" O.C. = 18' - 0" MAX HEIGHT
- 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 SHEATHED W/ 7/8" OSB (MIN.)
 - PANEL EDGE NAILING: 6d NAILS @ 6" O.C.
 - INTERIOR OF PANEL NAILING: 6d NAILS @ 12" O.C.

HEADER SCHEDULE

LOAD BEARING HEADERS (LABELED)	
TAG	DESCRIPTION
H1	(2) 2X4 ON SINGLE JACKS
H2	(2) 2X10 ON SINGLE JACKS
H3	(2) 2X10 ON DBL JACKS
H4	(2) 2X12 ON DBL JACKS
H5	(2) 1.75" X 9.25" LVL ON DBL JACKS
H6	(2) 1.75" X 11.25" LVL ON DBL JACKS
H7	(3) 2X10 ON SINGLE JACKS
NON- LOAD BEARING HEADERS:	
0" - 38" OPENINGS: SINGLE 2X4 TURNED FLAT	
38" TO 72" OPENINGS: DBL 2X4 ON SINGLE JACKS	
KING STUDS FOR BRACED WALLS (BOTH SIDES OF OPENING)	
# STUDS	MAX OPENING
1	5'-0"
2	8'-0"
3	10'-0"
4	12'-0"
5	15'-0"



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 NOTES: MILLER RESIDENCE

DATE

01/23/22

BY

CLH

DESCRIPTION

STRUCTURAL PLANS AND FOUNDATION

REV. #

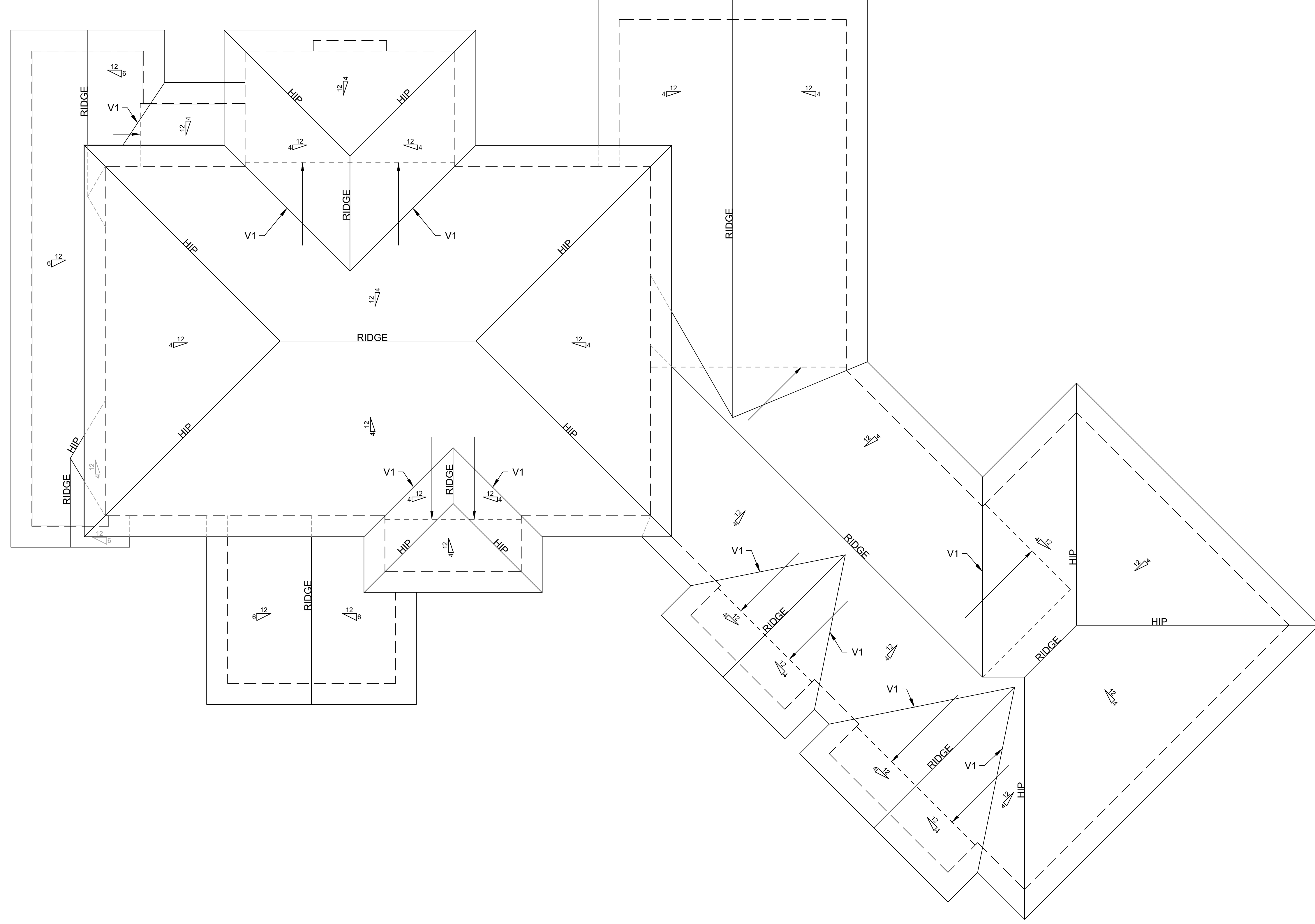
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2ND FLOOR (CEILING) FRAMING PLAN
 SCALE: 3/16" = 1'-0"

PROJECT #
 22-7-1-1
 SHEET #

S330

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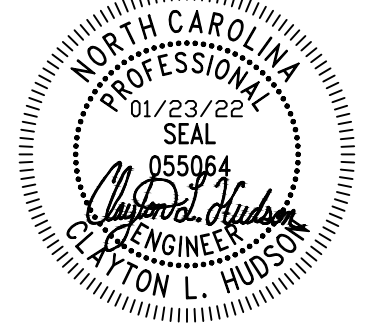
NOTES

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

LEGEND

NOTATION	DESCRIPTION
V1	VALLEY SET TRUSSES

ENDURE ENGINEERING
 ENDURE ENGINEERING, PLLC (P-2652)
 3325 DERBYSHIRE PL., RALEIGH, NC 27604
 (910) 850-4043
 www.endureengineering.com



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CLIENT:	WHITTENTON BUILDERS
CLIENT EMAIL:	craig@whittentonbuilders.com
SCOPE OF WORK:	STRUCTURAL PLANS
ADDRESS:	61 ROCK RIDGE PLACE, COATS NC 27521
NOTES:	MILLER RESIDENCE

REV. #	DESCRIPTION	BY	DATE
0	STRUCTURAL PLANS AND FOUNDATION	CLH	01/23/22

ROOF FRAMING PLAN

SCALE: 3/16" = 1'-0"

PROJECT #
22-7-1-1

SHEET #
S340

