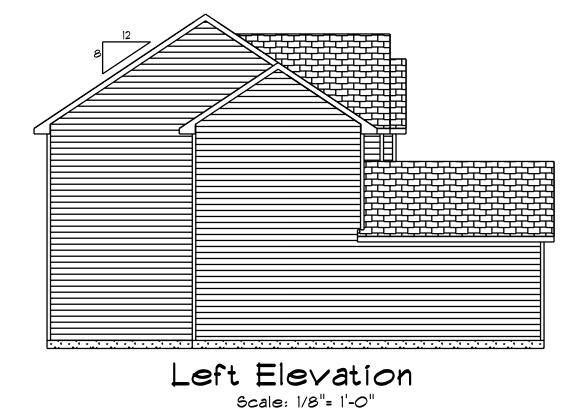
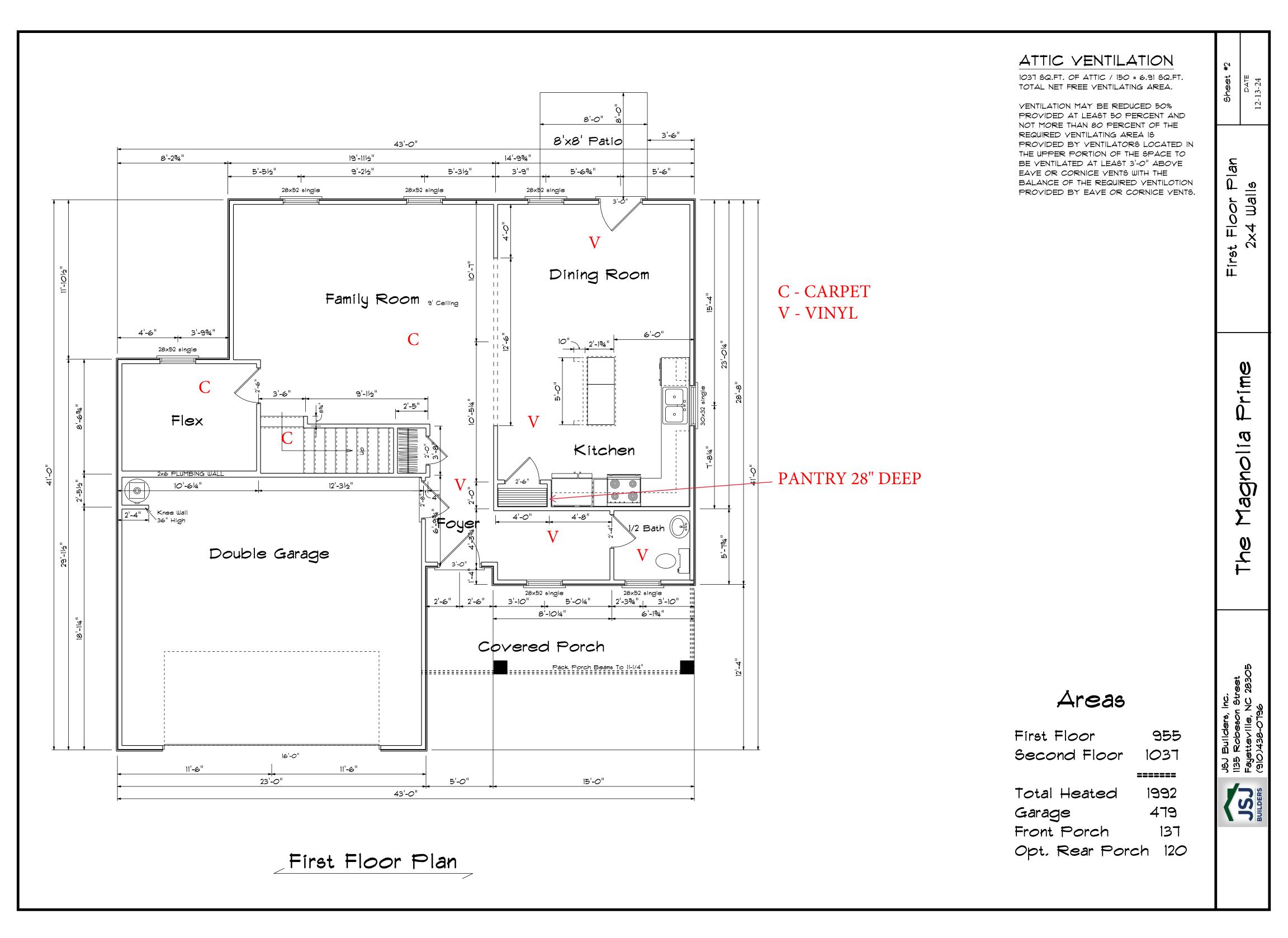
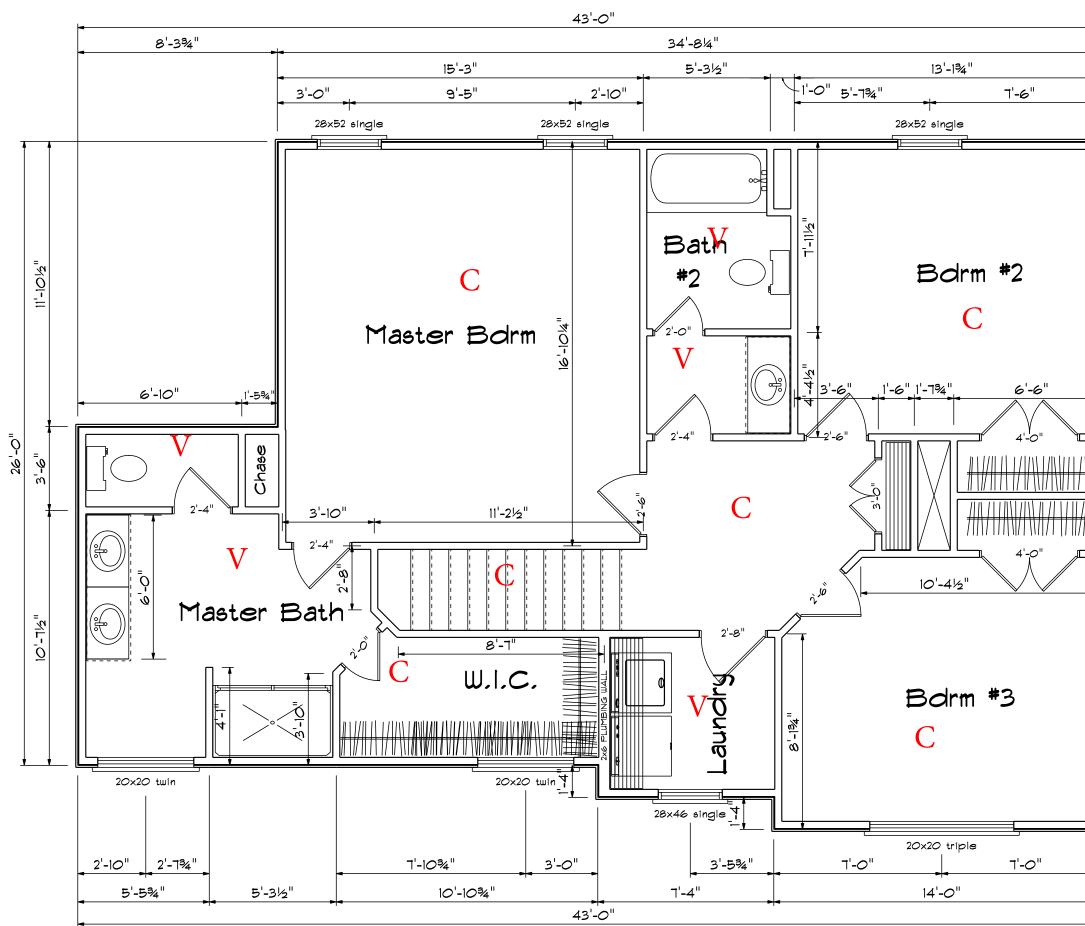
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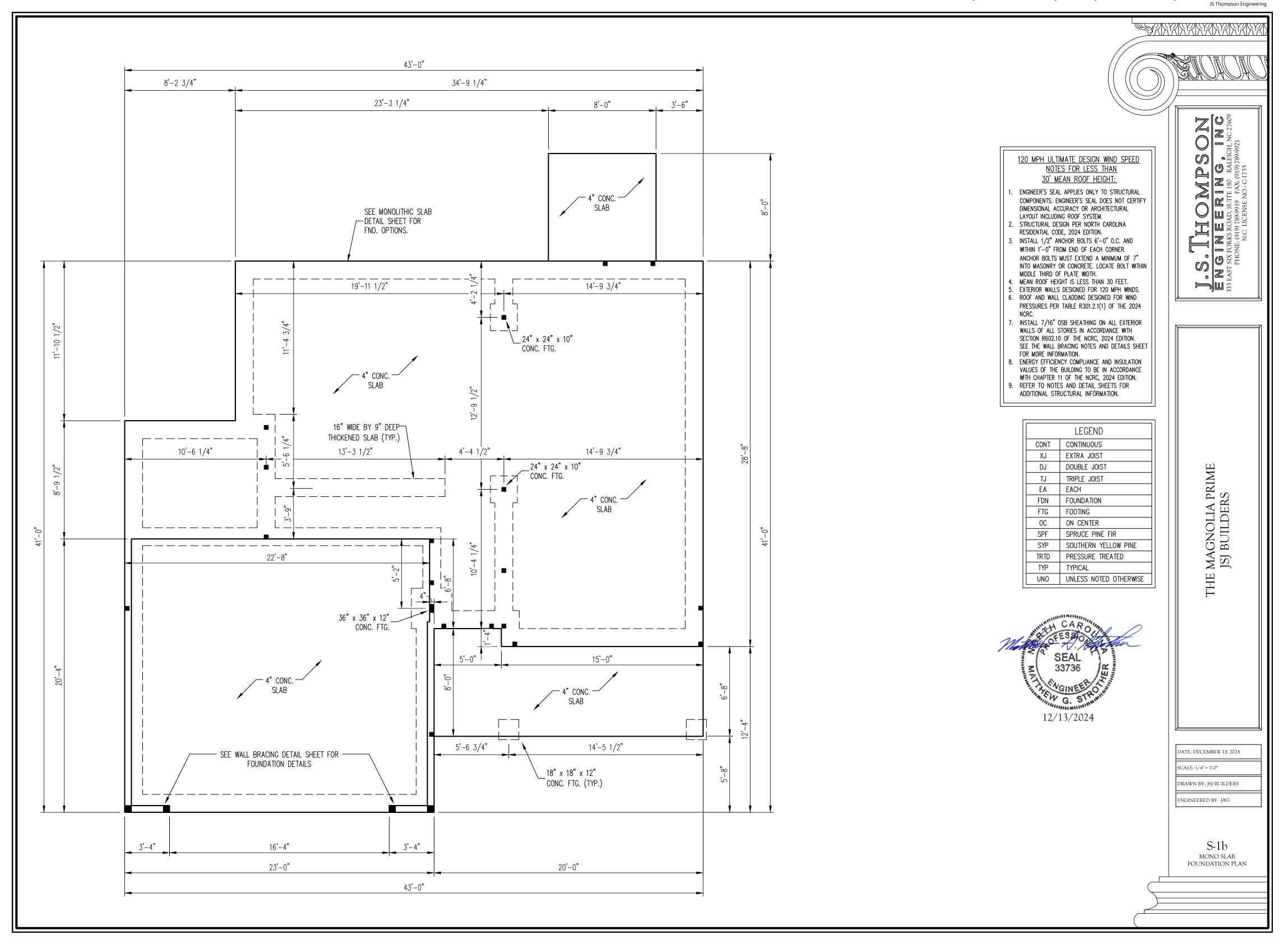




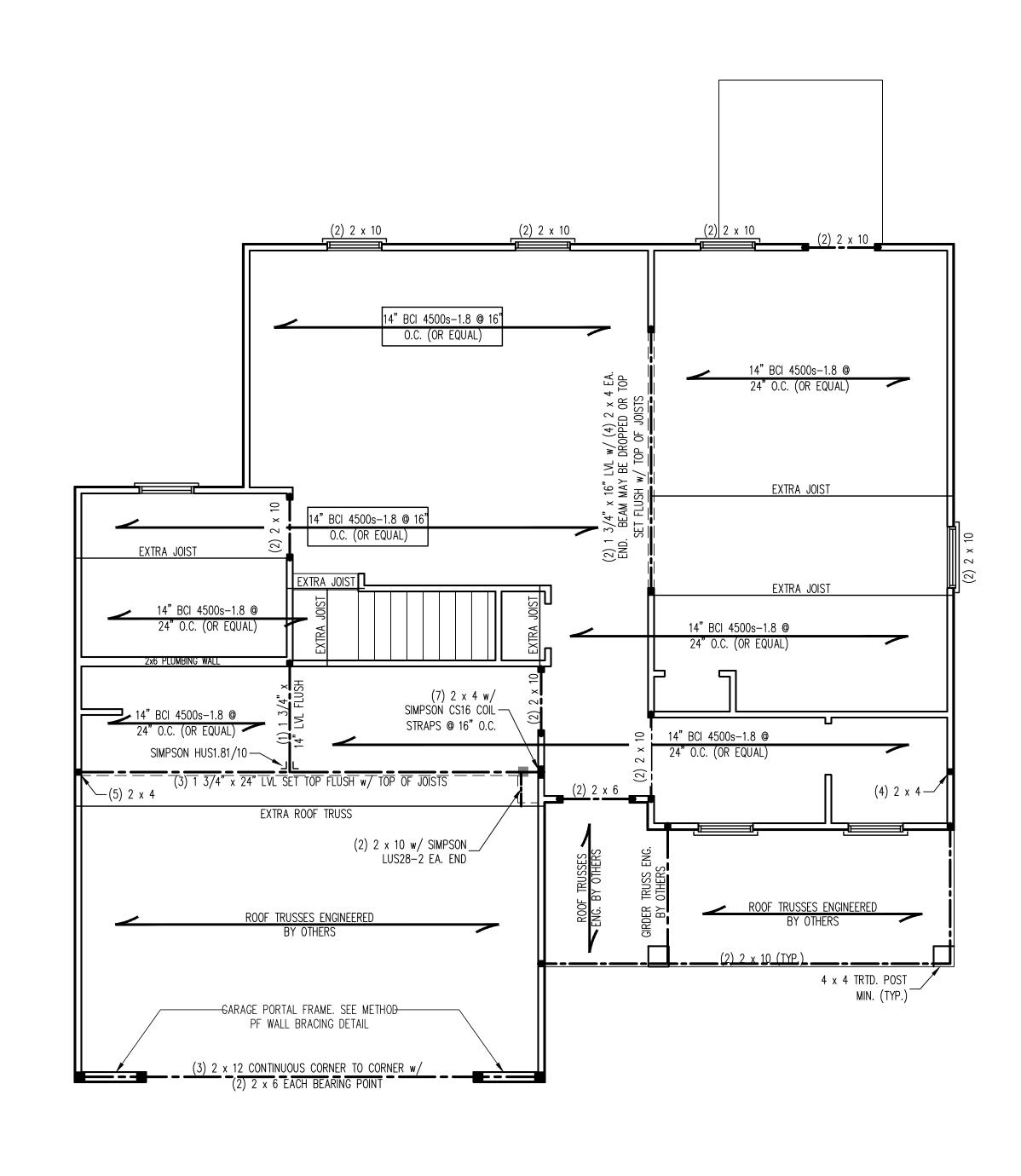


Second Floor Plan

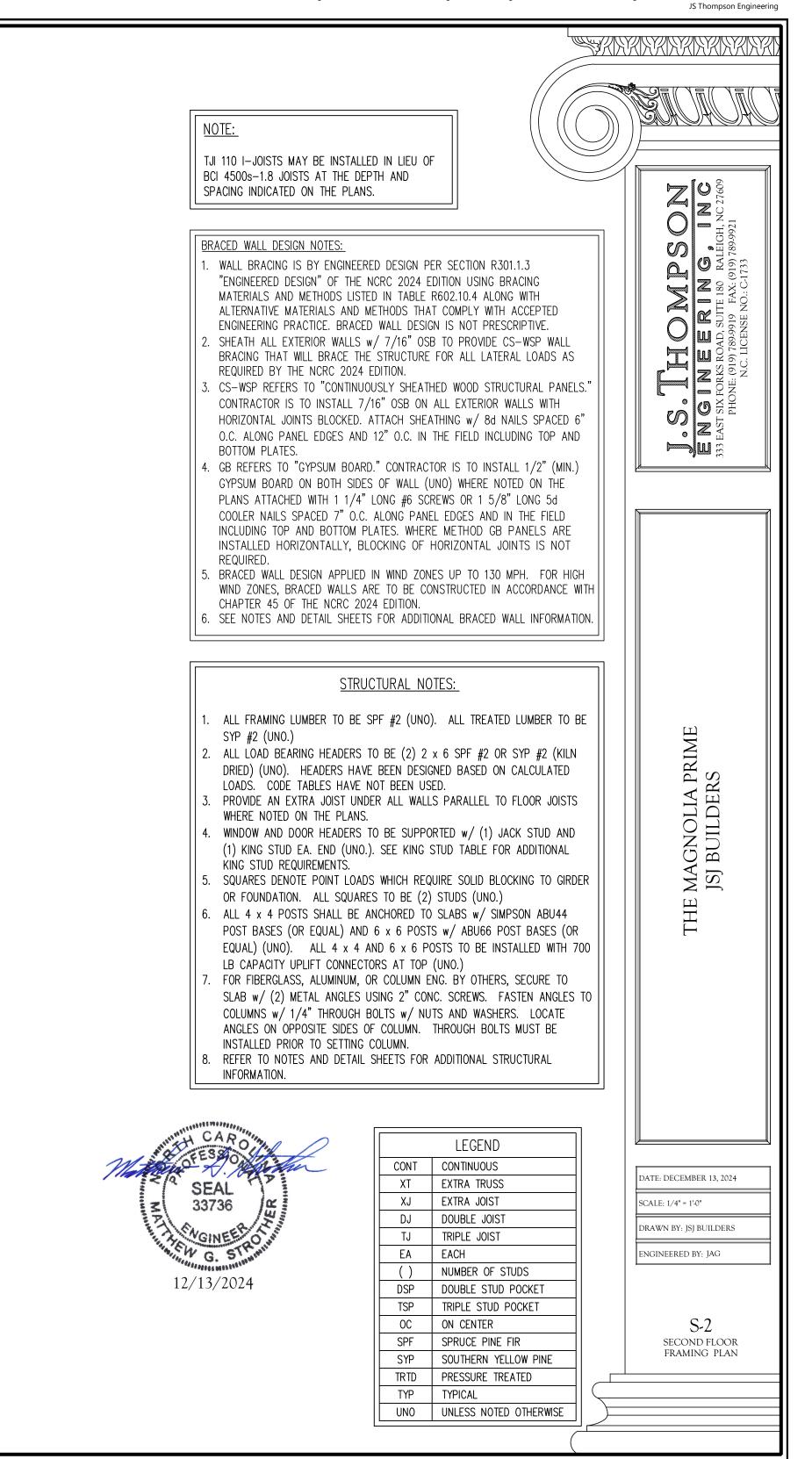
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	Second Floor Plan	2x4 Walls	
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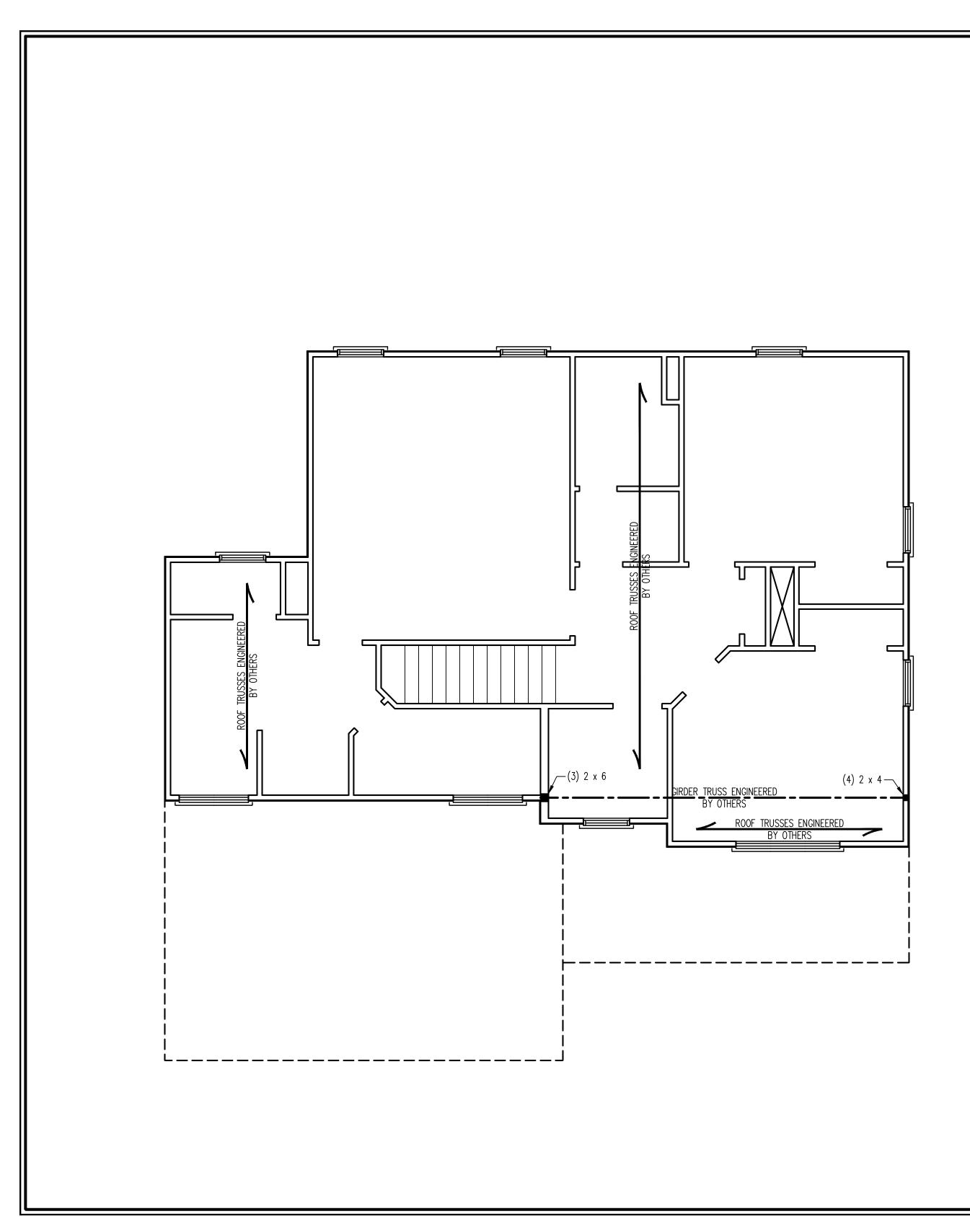


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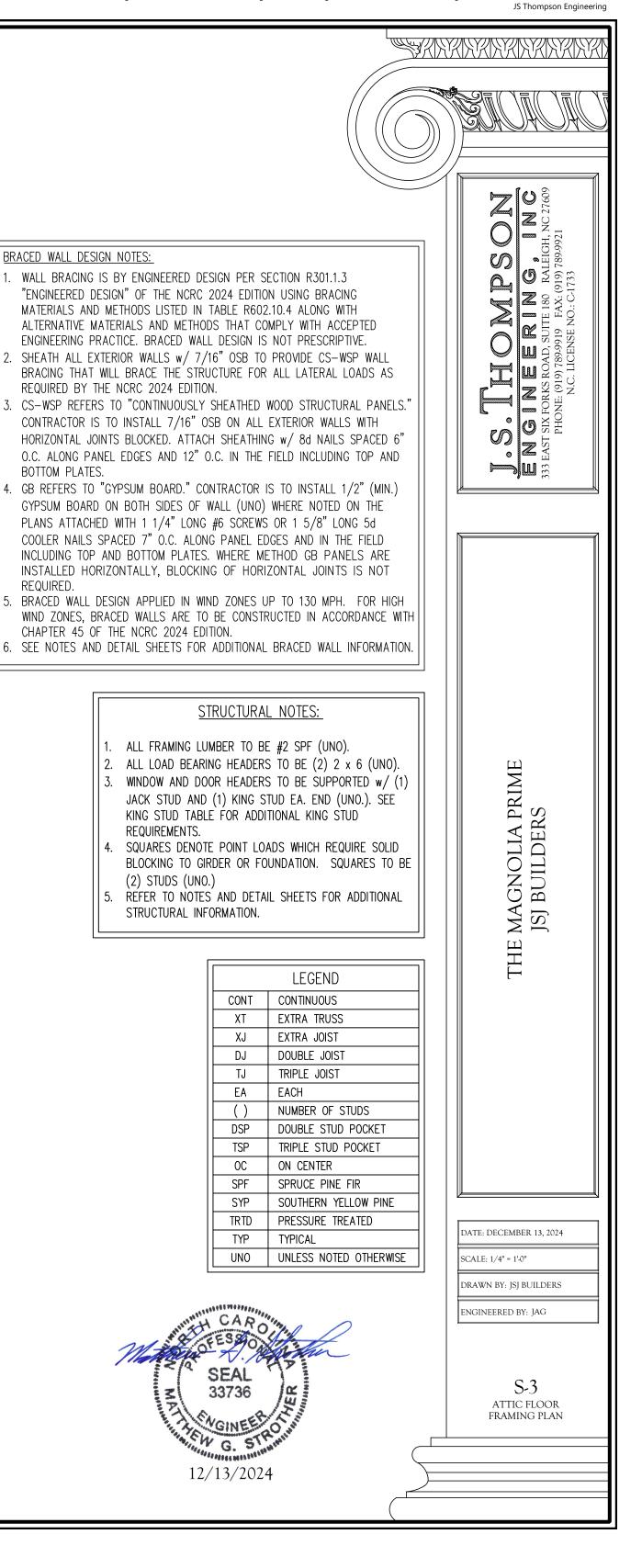


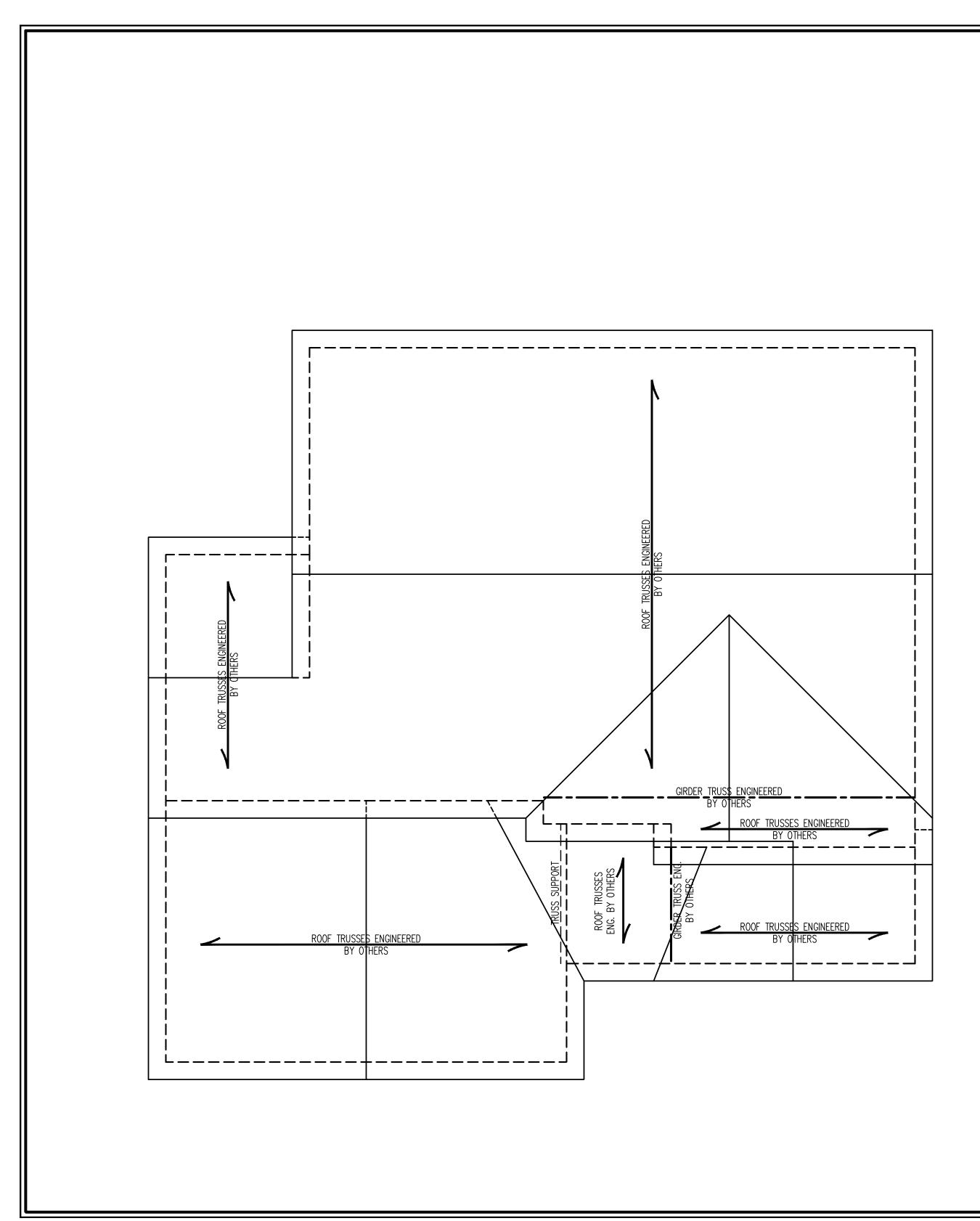
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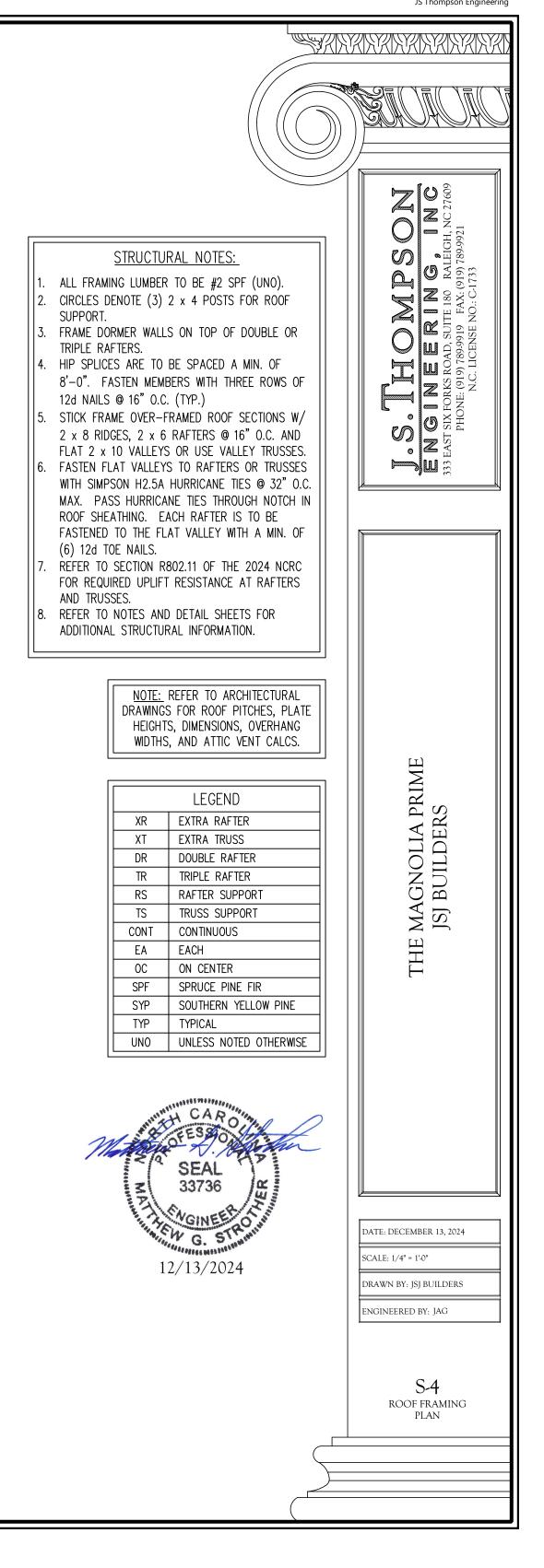


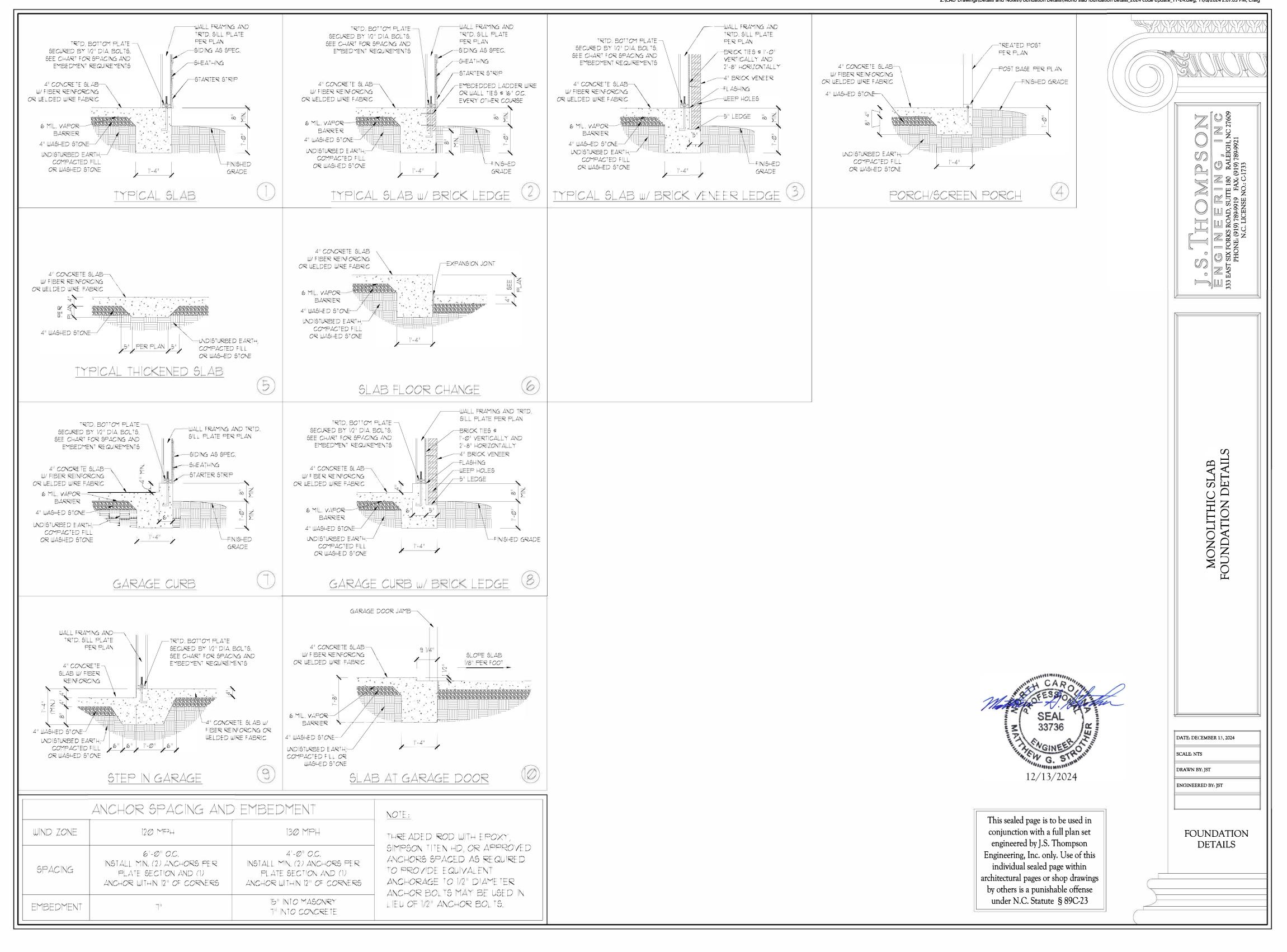
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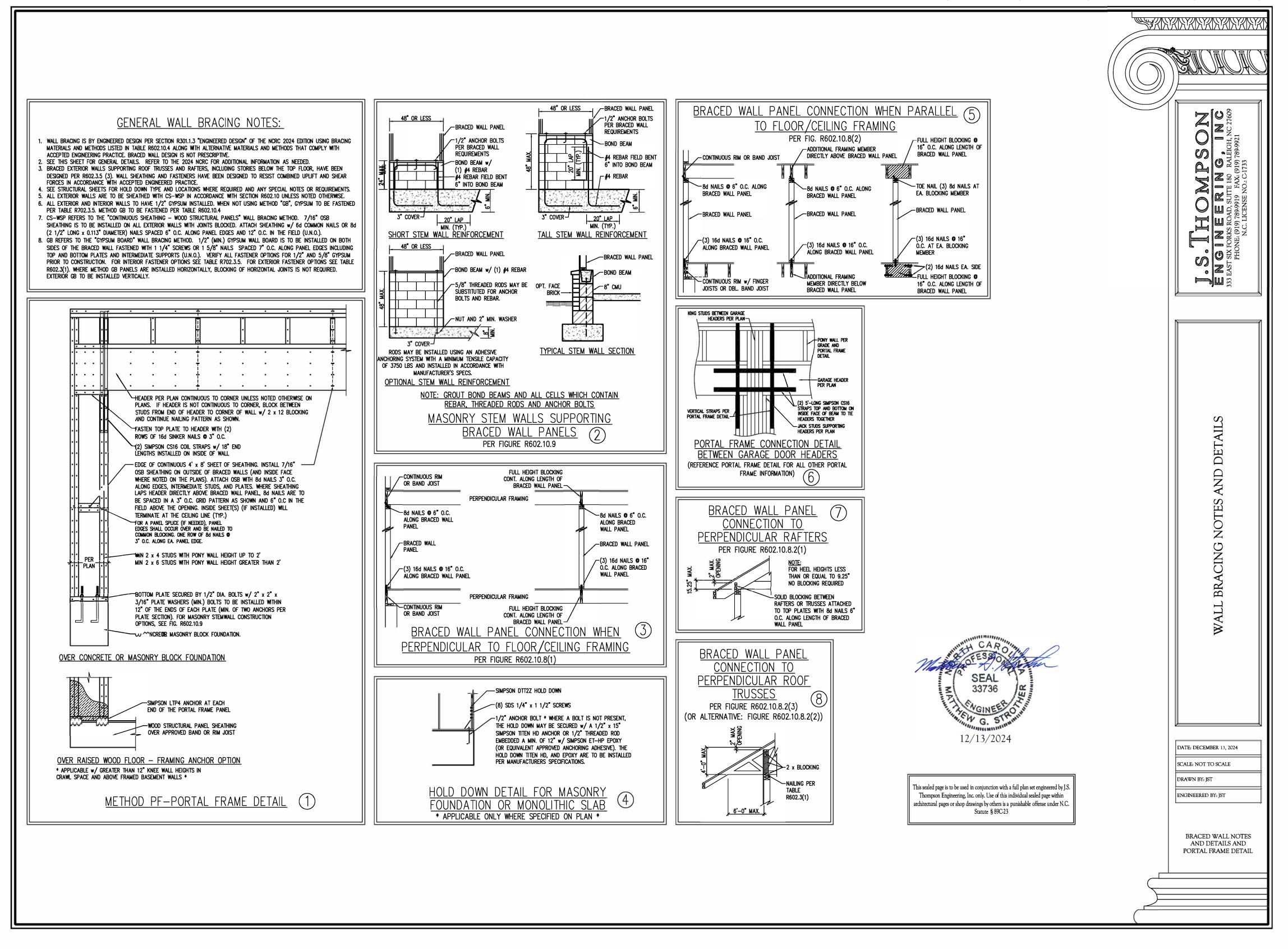


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- ENGINEER'S SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS INCLUDING ROOF RAFTERS, HIPS, VALLEYS, RIDGES, FLOORS, WALLS, BEAMS, HEADERS, COLUMNS, CANTILEVERS, 1. OFFSET LOAD BEARING WALLS, PIERS, GIRDER SYSTEM AND FOOTING. ENGINEER'S SEAL DOES NOT CERTIFY DIMENSIONAL ACCURACY OF ARCHITECTURAL LAYOUT INCLUDING ROOF. ENGINEER'S SEAL DOES NOT APPLY TO I-JOIST OR FLOOR/ROOF TRUSS LAYOUT DESIGN AND ACCURACY.
- 2. ALL CONSTRUCTION SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE NORTH CAROLINA RESIDENTIAL CODE (NCRC), 2024 EDITION, PLUS ALL LOCAL CODES AND REGULATIONS. THE STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR, AND WILL NOT HAVE CONTROL OF, CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, OR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE CONSTRUCTION WORK. NOR WILL THE ENGINEER BE RESPONSIBLE FOR THE CONTRACTORS FAILURE TO CARRY OUT THE CONSTRUCTION WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- 3. STRUCTURAL DESIGN BASED ON THE PROVISIONS OF THE NCRC, 2024 EDITION (R301.4 R301.7)

DESIGN CRITERIA:	LIVE LOAD (PSF)	DEAD LOAD (PSF)
ATTIC WITH LIMITED STORAGE	20	10
ATTIC WITHOUT STORAGE	10	10
DECKS	40	10
EXTERIOR BALCONIES	40	10
FIRE ESCAPES	40	10
HANDRAILS/GUARDRAILS	200	10
PASSENGER VEHICLE GARAGE	50	10
ROOMS OTHER THAN SLEEPING ROOM	40	10
SLEEPING ROOMS	30	10
STAIRS	40	10
WIND LOAD	(BASED ON TABLE R301.2)	(4) WIND ZONE AND EXPOSURE)
GROUND SNOW LOAD: Pg	20 (PSF)	

SEISMIC DESIGN CATEGORY:

- I-JOIST SYSTEMS DESIGNED WITH 12 PSF DEAD LOAD AND DEFLECTION (IN) OF L/480

В

- FLOOR TRUSS SYSTEMS DESIGNED WITH 15 PSF DEAD LOAD
- CLADDING DESIGNED FOR:

120 MPH WIND ZONE				
		POS. (PSF) PRESSURE	NEG. (PSF) PRESSURE	
	FLAT ROOF	+ 6.3	- 44.5	
GABLE ROOF	2.25 TO 5/12	+ 9.6	- 49.8	
CLADDING	5 TO 7/12	+ 11.6	- 41.9	
	7 TO 12/12	+ 14.2	- 35.3	
	2.25 TO 5/12	+ 11.6	- 36.6	
HIP ROOF CLADDING	5 TO 7/12	+ 11.6	- 28.7	
	7 TO 12/12	+ 11.1	- 35.6	
WALL CLADDING		+ 15.5	- 20.8	

140 MPH WIND ZONE				
POS. (PSF) NEG. (PSF) PRESSURE PRESSURE				
	FLAT ROOF	+ 8.6	- 60.6	
GABLE ROOF	2.25 TO 5/12	+ 13.1	- 67.8	
CLADDING	5 TO 7/12	+ 15.8	- 57	
	7 TO 12/12	+ 19.4	- 48	
	2.25 TO 5/12	+ 15.8	- 49.8	
HIP ROOF CLADDING	5 TO 7/12	+ 15.8	- 39.1	
CENEDINO	7 TO 12/12	+ 15.1	- 48.4	
WALL CLADDING		+ 21.1	- 28.3	

		POS. (PSF) PRESSURE	NEG. (PSF) PRESSURE
GABLE ROOF CLADDING	FLAT ROOF	+ 7.4	- 52.2
	2.25 TO 5/12	+ 11.3	- 58.4
	5 TO 7/12	+ 13.6	- 49.2
	7 TO 12/12	+ 16.7	- 41.4
	2.25 TO 5/12	+ 13.6	- 43
HIP ROOF	5 TO 7/12	+ 13.6	- 33.7
OLADDINO	7 TO 12/12	+ 13	- 41.7
WALL CLADDING	al a constant	+ 18.2	- 24.4

130 MPH WIND ZONE

DEFLECTION (IN)

150 MPH WIND ZONE				
		POS. (PSF) PRESSURE	NEG. (PSF) PRESSURE	
	FLAT ROOF	+ 9.9	- 69.6	
GABLE ROOF	2.25 TO 5/12	+ 15	- 77.8	
CLADDING	5 TO 7/12	+ 18.1	- 65.4	
	7 TO 12/12	+ 22.2	- 55.2	
HIP ROOF CLADDING	2.25 TO 5/12	+ 18.1	- 57.2	
	5 TO 7/12	+ 18.1	- 44.9	
	7 TO 12/12	+ 17.3	- 55.6	
WALL CLADDING		+ 24.3	- 32.5	

4. FOR 115 AND 120 MPH WIND ZONES, FOUNDATION ANCHORAGE IS TO COMPLY WITH SECTION R403.1.6 OF THE NCRC, 2024 EDITION. FOR 130 MPH, 140 MPH, AND 150 MPH WIND ZONES, FOUNDATION ANCHORAGE IS TO COMPLY WITH SECTION 4504 OF THE NCRC, 2024 EDITION.

5. ENERGY EFFICIENCY COMPLIANCE AND INSULATION VALUES OF THE BUILDING TO BE IN ACCORDANCE WITH CHAPTER 11 OF THE NCRC, 2024 EDITION.

FOOTING AND FOUNDATION NOTES

1. FOUNDATION DESIGN BASED ON A MINIMUM ALLOWABLE BEARING CAPACITY OF 2000 PSF. CONTACT GEOTECHNICAL ENGINEER IF BEARING CAPACITY IS NOT ACHIEVED.

- 2. FOR ALL CONCRETE SLABS AND FOOTINGS, THE AREA WITHIN THE PERIMETER OF THE BUILDING ENVELOPE SHALL HAVE ALL VEGETATION, TOP SOIL AND FOREIGN MATERIAL REMOVED. FILL MATERIAL SHALL BE FREE OF VEGETATION AND FOREIGN MATERIAL. THE FILL SHALL BE COMPACTED TO ASSURE UNIFORM SUPPORT OF THE SLAB, AND EXCEPT WHERE APPROVED. THE FILL DEPTHS SHALL NOT EXCEED 24" FOR CLEAN SAND OR GRAVEL. EXCEPTION: #57 OR #67 STONE MAY BE USED AS FILL FOR MAXIMUM DEPTH OF 4 FEET WITHOUT CONSOLIDATION. A 4" THICK BASED COURSE CONSISTING OF CLEAN GRADED SAND OR GRAVEL SHALL BE PLACED. A BASE COURSE IS NOT REQUIRED WHERE A CONCRETE SLAB IS INSTALLED ON WELL-DRAINED OR SAND-GRAVEL MIXTURE SOILS CLASSIFIED AS GROUP 1, ACCORDING TO THE UNITED SOIL CLASSIFICATION SYSTEM IN ACCORDANCE WITH TABLE R405.1 OF THE NCRC, 2024 EDITION.
- 3. PROPERLY DEWATER EXCAVATION PRIOR TO POURING CONCRETE WHEN BOTTOM OF CONCRETE SLAB IS AT OR BELOW WATER TABLE. IF APPLICABLE, 3/4" 1" DEEP CONTROL JOINTS ARE TO BE SAWED WITHIN 4 TO 12 HOURS OF CONCRETE FINISHING AND WALL LOCATIONS HAVE BEEN MARKED. ADJUST WHERE NECESSARY.
- 4. CONCRETE SHALL CONFORM TO SECTION R402.2 OF THE NCRC, 2024 EDITION. CONCRETE REINFORCING STEEL TO BE ASTM A615 GRADE 60. WELDED WIRE FABRIC TO BE ASTM A185. MAINTAIN A MINIMUM CONCRETE COVER AROUND REINFORCING STEEL OF 3" IN FOOTINGS AND 1 1/2" IN SLABS. FOR POURED CONCRETE WALLS, CONCRETE COVER FOR REINFORCING STEEL MEASURED FROM THE INSIDE FACE OF THE WALL SHALL NOT BE LESS THAN 3/4". CONCRETE COVER FOR REINFORCING STEEL MEASURED FROM THE OUTSIDE FACE OF THE WALL SHALL NOT BE LESS THAN 1 1/2" FOR #5 BARS OR SMALLER, AND NOT LESS THAN 2" FOR #6 BARS OR LARGER.

- 5. MASONRY UNIT
- 6. THE UNSUPPOR TEN TIMES THEI WALLS SHALL
- 7. THE CENTER O PIERS.

8. ALL CONCRETE OR IN ACCORD R404.1.1(2), R STEP CONCRE

ALL FRAMIN 1. SYP MINIMU

LAMINATED 2. SHALL HAVE FOLLOWING PROPERTIES:

> STRUCTURA Α.

3.

R. C. D. E.

4. STEEL BEAM SUPPORT TO

> A. WOOD FR B. CONCRET C. MASONRY D. STEEL PI

LATERAL SUI SECURED TO ARE USED 1

5. SQUARES DE BLOCKING T

6. ALL LOAD B (UNO), WHIC POINT (UNO)

7. ALL BEAMS, BEAMS OR TRUSSES PE (UNO). BEA

8. FLITCH BEAM CENTERS (M

9. ALL I-JOIST OF THE ENG

10. BRACED WA LOCATION (

PROVIDE DO 11. PLAN. INSTA

12. FOR ALL HE BRICK SUPPO STAGGERED PLY BETWEEI

13. FOR STICK THREE ROWS

14. FOR TRUSSE SECTIONS WI

15. ALL 4 x 4 SIMPSON CS CONCRETE

16. CONSTRUCT

L/240 (L/360 w/ BRITTLE FINISHES) L/360 L/360 L/360 L/360 L/360 L/360 SEAL L/360 L/360 L/360 G 12/13/2024



GENERAL	NOTES
	,

TS TO CONFORM TO ACE 530/ASCE 5/TMS	402. MORTAR SHALL CONFORM TO ASTM C270.	S KAK	KKKKKKKK		
TED HEIGHT OF MASONRY PIERS SHALL NOT EXCEED FOUR TIMES THEIR LEAST DIMENSION FOR UNFILLED HOLLOW CONCRETE MASONRY UNITS AND THE LEAST DIMENSION FOR SOLID OR SOLID FILLED PIERS. PERS MAY BE FILLED SOLID WITH CONCRETE OR TYPE M OR S MORTAR. PIERS AND BE CAPPED WITH 8" OF SOLID MASONRY.					
	MIDDLE THIRD OF ITS RESPECTIVE FOOTING. EACH GIRDER SHALL BEAR IN THE MIDDLE THIRD	D OF THE	SUNDANA		
DANCE WITH ACI 318, ACI 332, NCMA TR68- R404.1.1(3), OR R404.1.1(4) OF THE NCRC, 2	O BE CONSTRUCTED IN ACCORDANCE WITH THE PROVISIONS OF SECTION R404 OF THE NCRC, -A OR ACE 530/ASCE 5/TMS 402. MASONRY FOUNDATION WALLS ARE TO BE REINFORCED PE 2024 EDITION. CONCRETE FOUNDATION WALLS ARE TO BE REINFORCED PER TABLE R404.1.2(8) WALLS AT 16" O.C. WHERE GRADE PERMITS (UNO).	ER TABLE R404.1.1(1),	ON 1 NC 921		
	FRAMING NOTES		0 0 33 33 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
G LUMBER SHALL BE #2 SPF MINIMUM (Fb = M (Fb = 975 PSI, Fv =175 PSI, E = 16000	= 875 PSI, Fv = 375 PSI, E = 1600000 PSI) UNLESS NOTED OTHERWISE (UNO). ALL TREATI 100 PSI) UNLESS NOTED OTHERWISE (UNO).	ed lumber shall be #2	RIN UTTE 180 1 UTTE 180 1 19 FAX: (91 55 NO.: C17		
E THE FOLLOWING MINIMUM PROPERTIES: Fb MINIMUM PROPERTIES: Fc = 2500 PSI, E =1	LLOWING MINIMUM PROPERTIES: Fb =2600 PSI, Fv = 285 PSI, E = 1900000 PSI. LAMINATED = 2325 PSI, Fv = 310 PSI, E = 1550000 PSI. PARALLEL STRAND LUMBER (PSL) UP TO 7" 1800000 PSI. PARALLEL STRAND LUMBER (PSL) MORE THAN 7" DEPTH SHALL HAVE THE FOL ALL ALL CONNECTIONS PER MANUFACTURER'S SPECIFICATIONS.	DEPTH SHALL HAVE THE	THER INEE X FORKS ROAD, S HONE: (919) 789-99 N.C. LICEN		
L STEEL SHALL CONFORM TO THE FOLLOWING	3 ASTM SPECIFICATIONS				
	ASTM A992				
	ASTM A36 ASTM A36				
HOLLOW STRUCTURAL SECTIONS:	ASTM A500 GRADE B				
Steel PIPE:	ASTM A53, GRADE B, TYPE E OR S	'n	1		
	H A MINIMUM BEARING LENGTH OF 3 $1/2$ " AND FULL FLANGE WIDTH (UNO). PROVIDE SOLID I D AT THE BOTTOM FLANGE TO EACH SUPPORT AS FOLLOWS (UNO):	BEARING FROM BEAM			
•	(2) 1/2" DIA. x 4" LONG LAG SCREWS				
•	2) 1/2" DIA. x 4" WEDGE ANCHORS				
	(2) 1/2" DIA. x 4" LONG SIMPSON TITEN HD ANCHORS (4) 3/4" DIA. A325 BOLTS OR 3/16" FILLET WELD				
	(+) 5/ + DIA. A523 BOLTS OK 5/10 TILLET WELD				
THE TOP OF THE STEEL BEAM w/ (2) ROW	G THE JOISTS ARE TOE NAILED TO THE 2x NAILER ON TOP OF THE STEEL BEAM, AND THE 2x VS OF SELF TAPPING SCREWS @ 16" O.C. OR (2) ROWS OF 1/2" DIAMETER BOLTS @ 16" O.C. HALL BE FABRICATED w/ (2) ROWS OF 9/16" DIAMETER HOLES @ 16" O.C.		TES		
ENOTE POINT LOADS WHICH REQUIRE SOLID E O SUPPORTING MEMBER BELOW.	BLOCKING TO GIRDER OR FOUNDATION. SHADED SQUARES DENOTE POINT LOADS FROM ABOVE	WHICH REQUIRE SOLID	STRUCTURAL NOTES		
BEARING HEADERS TO CONFORM TO TABLE R602.7(1) AND R602.7(2) OF THE NCRC, 2024 EDITION OR BE (2) 2 x 6 WITH (1) JACK AND (1) KING STUD EACH END CHEVER IS GREATER ALL HEADERS TO BE SECURED TO EACH JACK STUD WITH (4) 8d NAILS. ALL BEAMS TO BE SUPPORTED WITH (2) STUDS AT EACH BEARING). INSTALL KING STUDS PER SECTION R602.7.5 OF THE NORTH CAROLINA RESIDENTIAL CODE, 2024 EDITION.					
HEADERS, OR GIRDER TRUSSES PARALLEL TO WALL ARE TO BEAR FULLY ON (1) JACK OR (2) STUDS MINIMUM OR THE NUMBER OF JACKS OR STUDS NOTED. ALL GIRDER TRUSSES PERPENDICULAR TO WALL AND SUPPORTED BY (3) STUDS OR LESS ARE TO HAVE 1 1/2" MINIMUM BEARING (UNO). ALL BEAMS OR GIRDER ERPENDICULAR TO WALL AND SUPPORTED BY MORE THAN (3) STUDS OR OTHER NOTED COLUMN ARE TO BEAR FULLY ON SUPPORT COLUMN FOR ENTIRE WALL DEPTH AM ENDS THAT BUTT INTO ONE ANOTHER ARE TO EACH BEAR EQUAL LENGTHS (UNO).					
	" DIAMETER BOLTS (ASTM A307) WITH WASHERS PLACED AT THREADED END OF BOLT. BOLTS TTOM OF BEAM (2" EDGE DISTANCE), WITH (2) BOLTS LOCATED AT 6" FROM EACH END (UNO		STANDARD		
OR TRUSS LAYOUTS ARE TO BE IN COMPLI CINEER OF RECORD PRIOR TO INSTALLATION.	IANCE WITH THE OVERALL DESIGN SPECIFIED ON THE PLANS. ALL DEVIATIONS ARE TO BE BR	ROUGHT TO THE ATTENTION	STA		
LL PANELS SHALL BE CONSTRUCTED ACCORI IF BRACING SHALL COMPLY WITH ALL APPLIC	DING TO THE NORTH CAROLINA RESIDENTIAL CODE 2024 EDITION WALL BRACING CRITERIA. THE CABLE TABLES IN SECTION R602.10.	E AMOUNT, LENGTH, AND			
	O FLOOR JOISTS. PROVIDE SUPPORT UNDER ALL WALLS PARALLEL TO FLOOR TRUSSES OR I- FOR POINT LOAD SUPPORT FOR ALL POINT LOADS ALONG OFFSET LOAD LINES.	-JOISTS PER STRUCTURAL			
PORT (U.N.O). FOR ALL HEADERS 8'-0" AND FOR BRICK SUPPORT. FOR ALL BRICK SUP	RE LESS THAN 8'-0" IN LENGTH, REST A 6" x 4" x 5/16" STEEL ANGLE WITH 6" MINIMUM END GREATER IN LENGTH, BOLT A 6" x 4" x 5/16" STEEL ANGLE TO HEADER WITH 1/2" LAG SUPORT AT ROOF LINES, BOLT A 6" x 4" x 5/16" STEEL ANGLE TO (2) 2 x 10 BLOCKING INSTACT OF STEEL ANGLE AT 12" O.C. STAGGERED AND IN ACCORDANCE WITH SECTION R703.8.2.1 OF THE N	CREWS AT 12" O.C. TALLED w/ (4) 12d NAILS EA.			
	POSTS FOR ROOF MEMBER SUPPORT. HIP SPLICES ARE TO BE SPACED A MINIMUM OF 8'-C ER WALLS ON TOP OF DOUBLE OR TRIPLE RAFTERS AS SHOWN (UNO).		DATE: DECEMBER 13, 2024		
ED ROOFS: FRAME DORMER WALLS ON TOP (ITH 2 x 8 RIDGES, 2 x 6 RAFTERS AT 16"	OF 2 x 4 LADDER FRAMING AT 24" O.C. BETWEEN ADJACENT ROOF TRUSSES. STICK FRAME 0.C. AND FLAT 2 x 10 VALLEYS (UNO).	OVER-FRAMED ROOF	DRAWN BY: JST		
	700 LB CAPACITY UPLIFT CONNECTORS TOP AND BOTTOM (UNO.) POSTS MAY BE SECURED TO OR (2) 6" LONG SIMPSON SDS SCREWS (OR EQUAL) DRIVEN AT AN ANGLE FROM OPPOSITE S				
ALL WOOD DECKS ACCORDING TO CHAPTER	47-WOOD DECKS.		STRUCTURAL NOTES		
This sealed page is to be	e used in conjunction with a full plan set engineered by J.S.	\subset			
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pages or shop drawings by	others is a punishable offense under N.C. Statute § 89C-23				

