

8'-0" 8'x8' Patio 36'-0" 6'-101/2" 6'-10" 8'-7½" 10'-0" 3'-8" 28×32 single 28x52 single 28x52 single 3'-0" 6'-0¾" Kitchen  $\mathbf{V}$ 11'-3¾" Family Room Dining 3'-6" Ò С <u>@</u> V 5'-9¾" 2'-2'择" 2'-2¾"  $\mathbf{V}$ 4'-8¼ 28" PANTRY 13'-11" 8'-01/2" 3'-9¾" DEPTH 4'-0" Ò 2'-8" 33 (HR) ( ) 5'-2<sup>1</sup>4" 38'-O Ō 3'-4½" Kneewall With Cap 0 2'-41⁄2" V <u>@</u> Kneewall With Cap Double Garage Foyer 22'-0" 3'-0" **₽**″ 20x32 single Porch Ò \_\_\_\_\_ 16'-0" 12'-2" 12'-2" 5'-8" 3'-7" 2'-5" 24'-4" 11'-8" 36'-0" First Floor Plan

## $\underline{\mathsf{ATTIC} \ \forall \mathsf{ENTILATION}}$

1139 SQ.FT. OF ATTIC / 150 = 7.59 SQ.FT. TOTAL NET FREE VENTILATING AREA. ¥2

Sheet

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First

Prime

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Maplemo

lders, Inc. beson Street ville, NC 28305

JSJ Builde 1135 Robe Fayettevil (910)438-

> JSJ BUILDERS

12-26-24

Walls

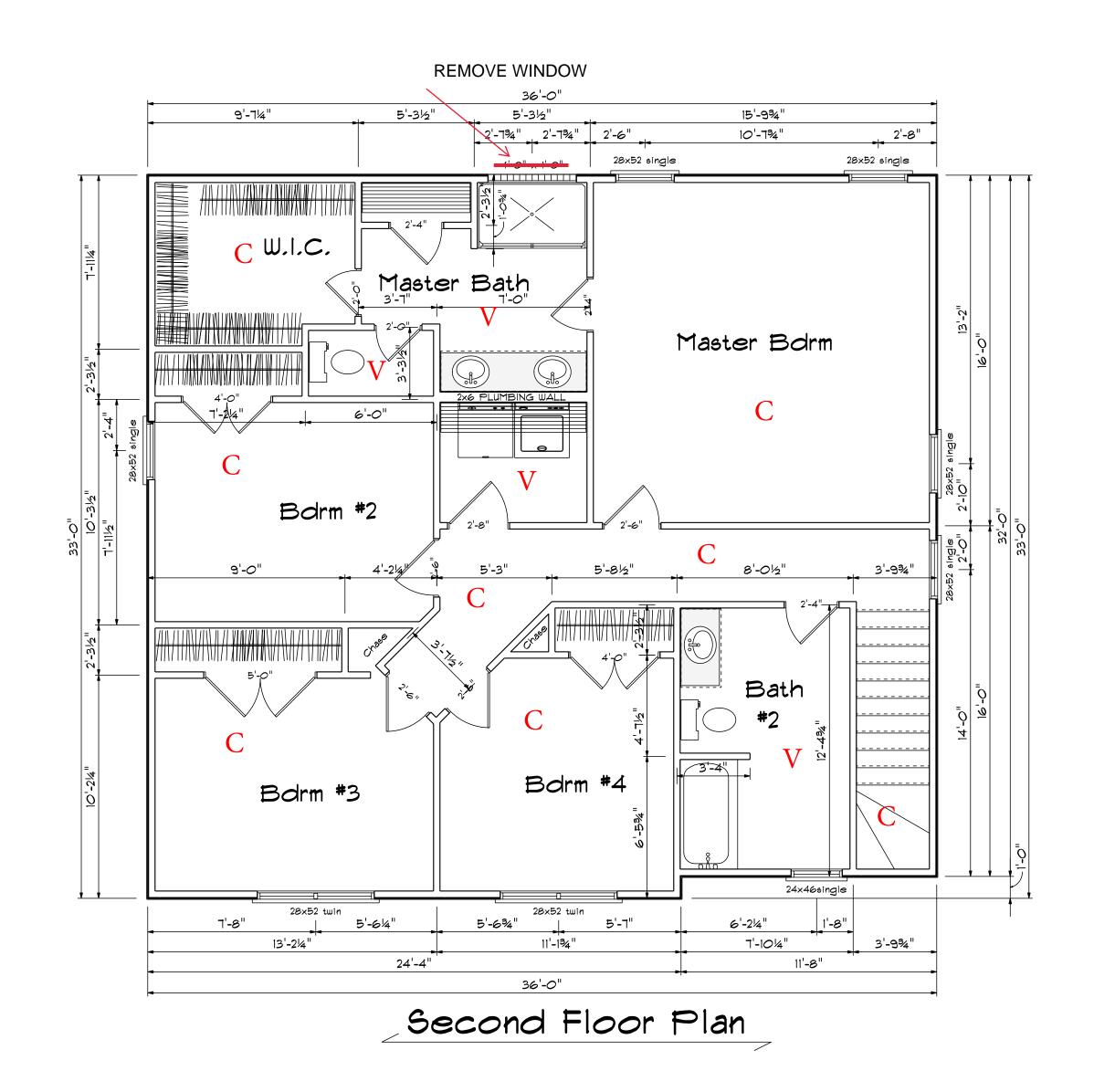
2×4

VENTILATION MAY BE REDUCED 50% PROVIDED AT LEAST 50 PERCENT AND NOT MORE THAN 80 PERCENT OF THE REQUIRED VENTILATING AREA IS PROVIDED BY VENTILATORS LOCATED IN THE UPPER PORTION OF THE SPACE TO BE VENTILATED AT LEAST 3'-0" ABOVE EAVE OR CORNICE VENTS WITH THE BALANCE OF THE REQUIRED VENTILOTION PROVIDED BY EAVE OR CORNICE VENTS.

## Areas

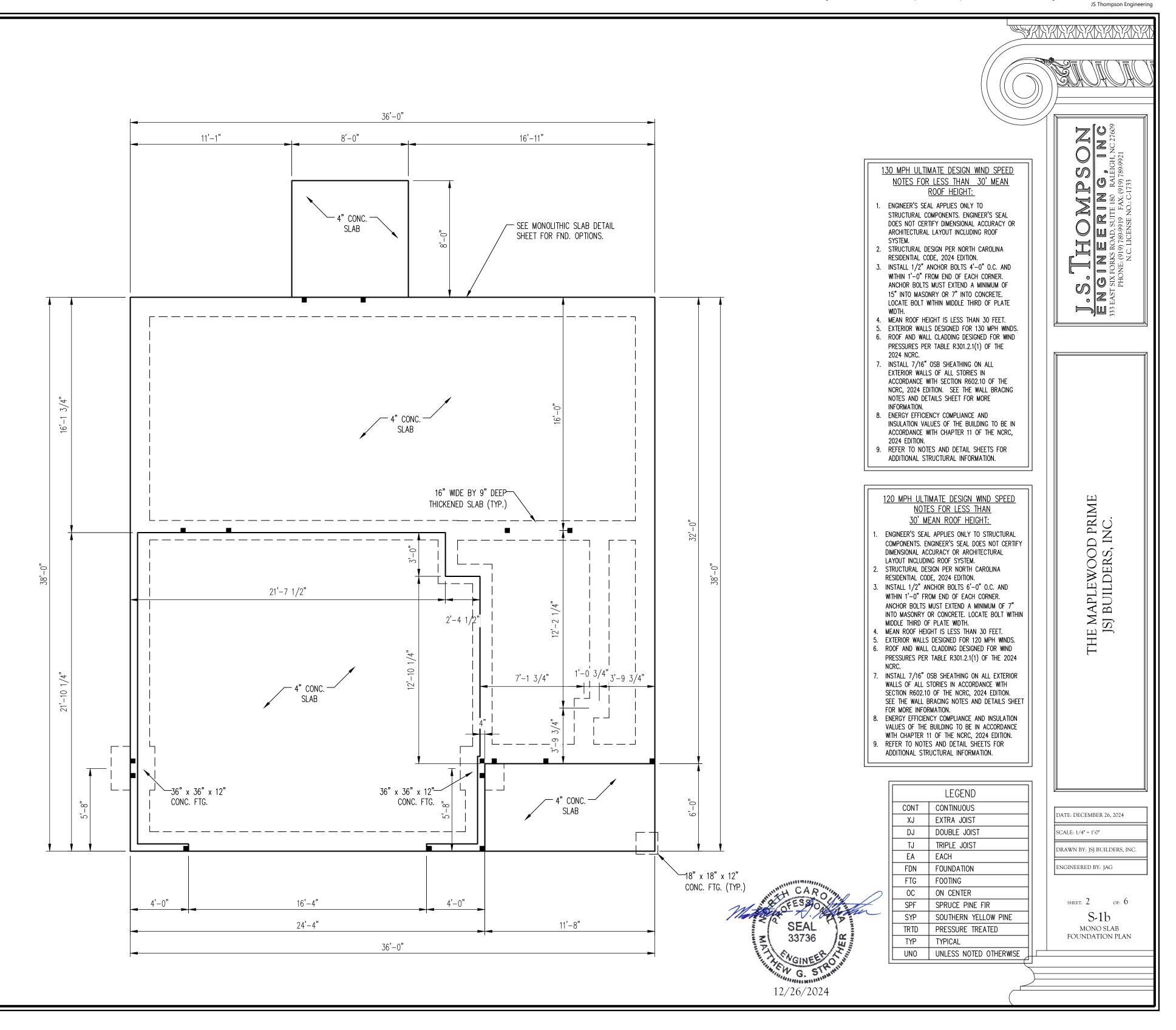
First Floor Second Floor	781 1139
==	======
Total Heated	1920
Garage	517
Front Porch	69
Optional covered Porch	100

# C - CARPET V - VINYL

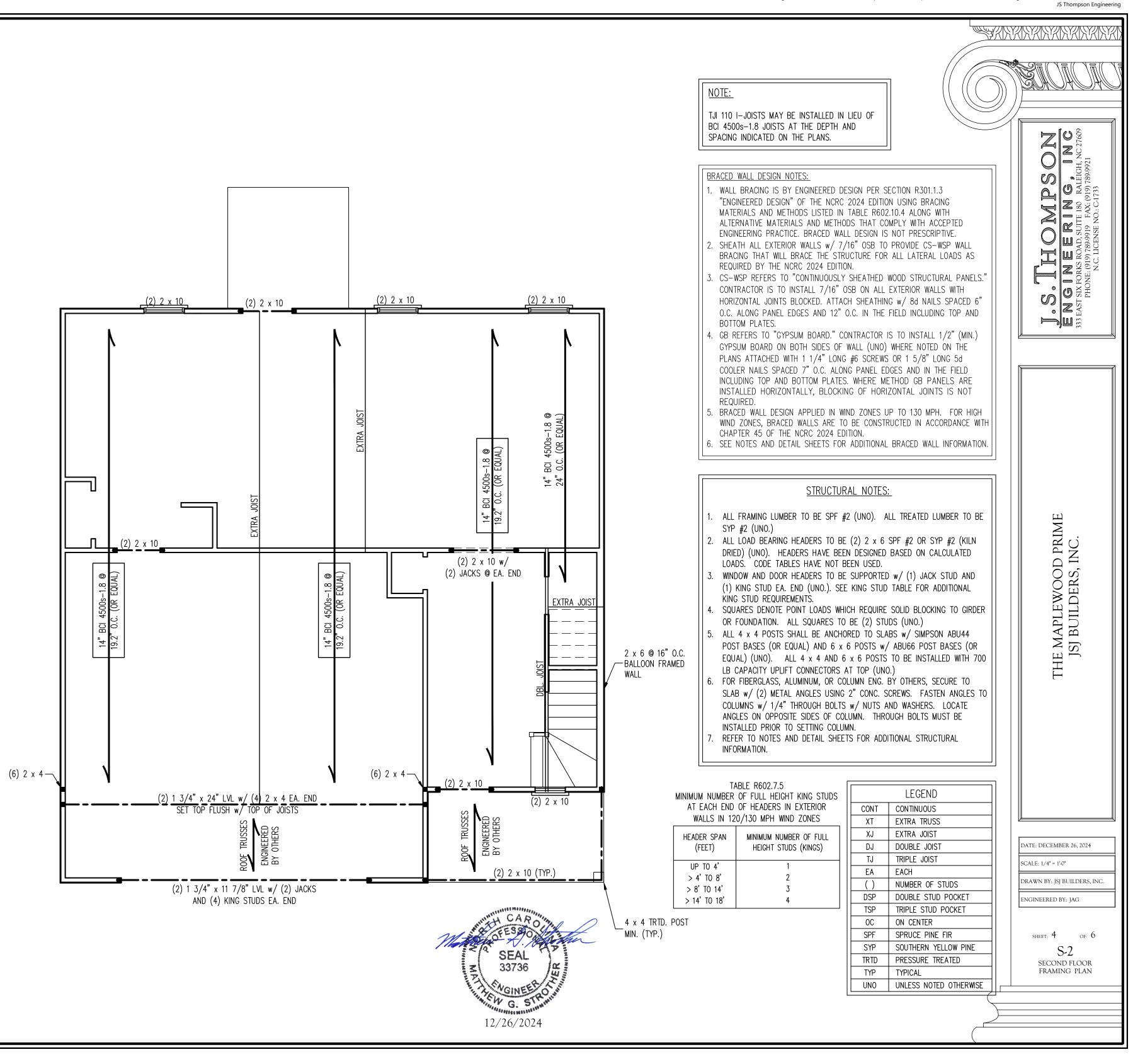




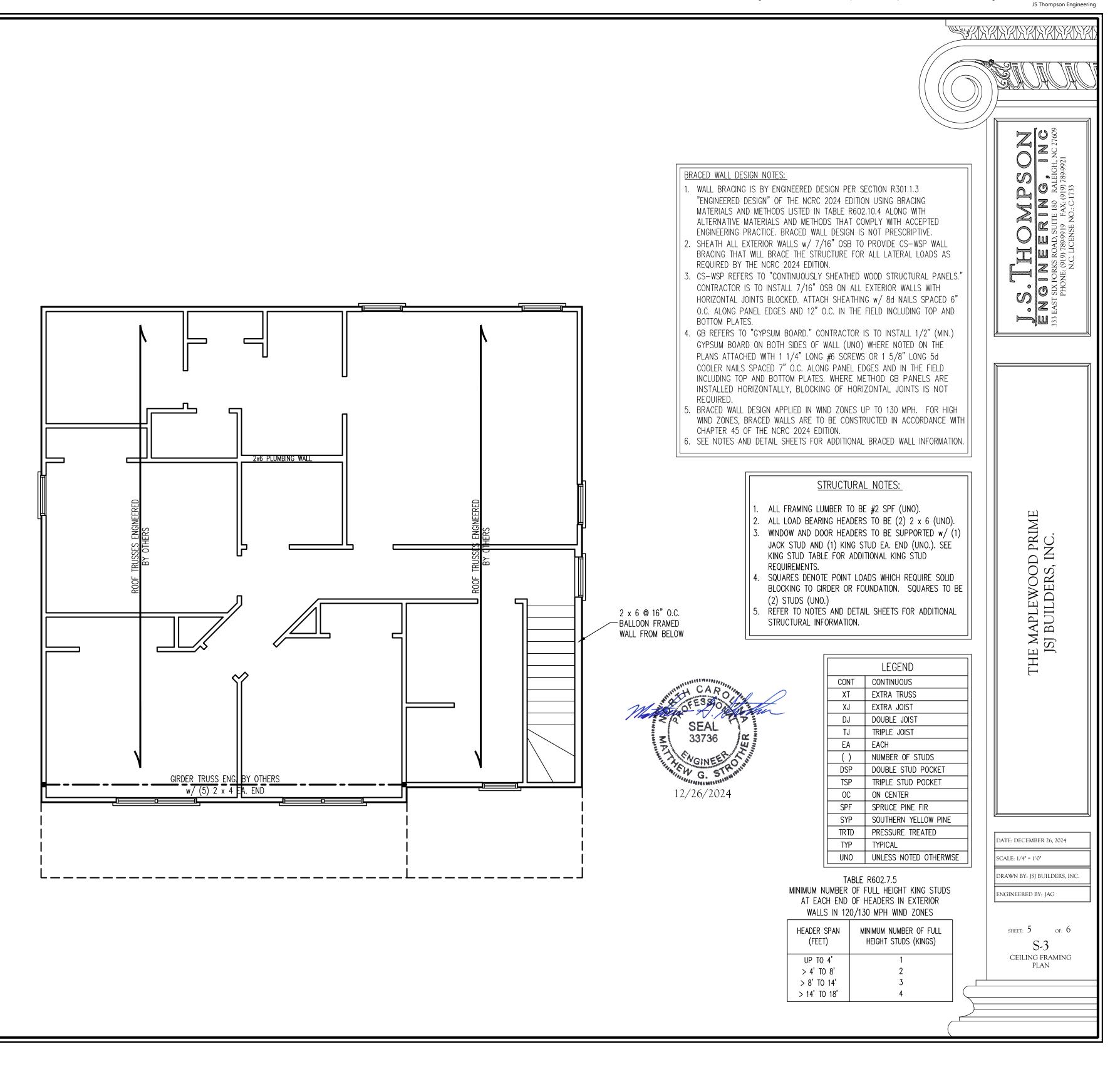
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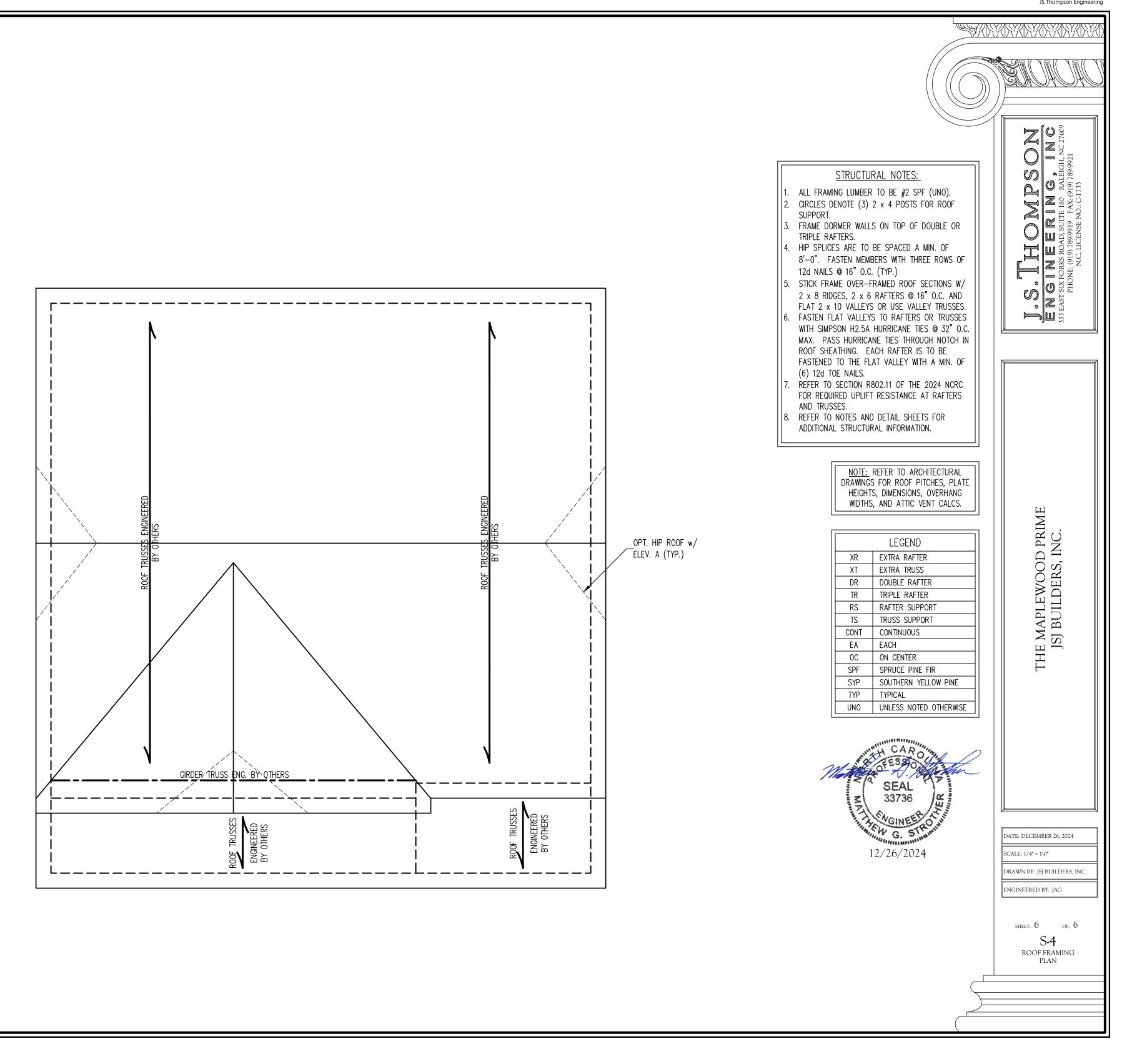
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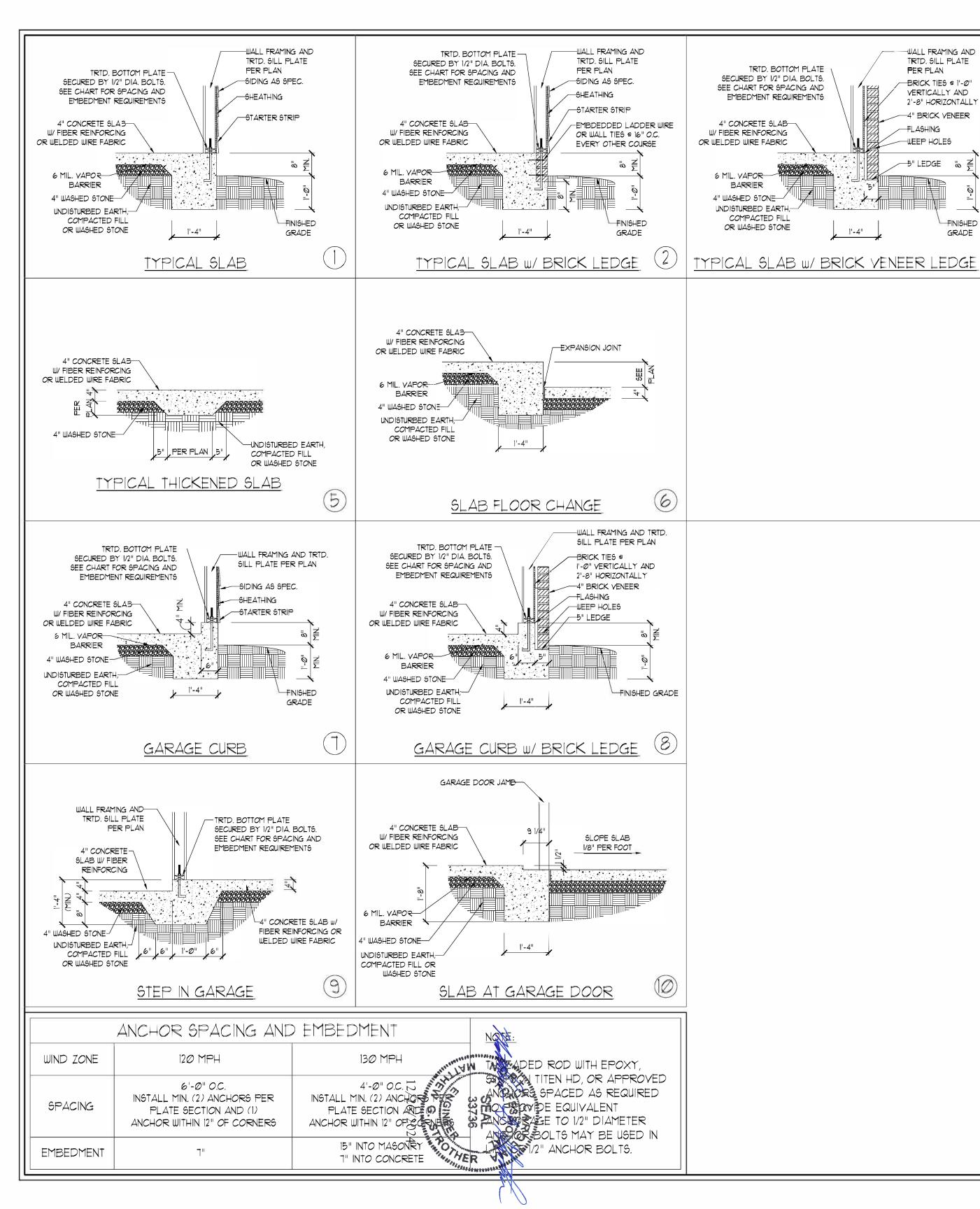
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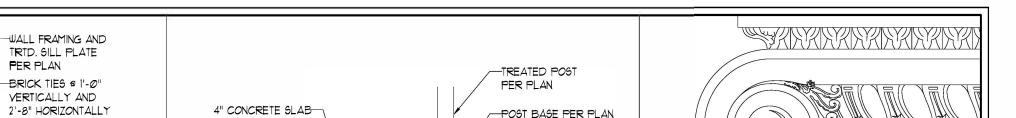


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l'-4"

PORCH/SCREEN PORCH

-FINISHED GRADE

(4)

W/ FIBER REINFORCING

4

UNDISTURBED EARTH;

COMPACTED FILL

OR WASHED STONE

Ξo

OR WELDED WIRE FABRIC

4" WASHED STONE

4" BRICK VENEER

\_∾ ≦

FINISHED

GRADE

ō

(3)

FLASHING

WEEP HOLES

-5" LEDGE

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NC 2'

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RAI (919) -1733

E 180 FAX: ( O.: C.

RKS N.C

CD XIS

EAST

S

MONOLITHIC SLAB FOUNDATION DETAIL

DATE: DECEMBER 26: 2024

SCALE: NTS

DRAWN BY: JST

ENGINEERED BY: JST

FOUNDATION

DETAILS

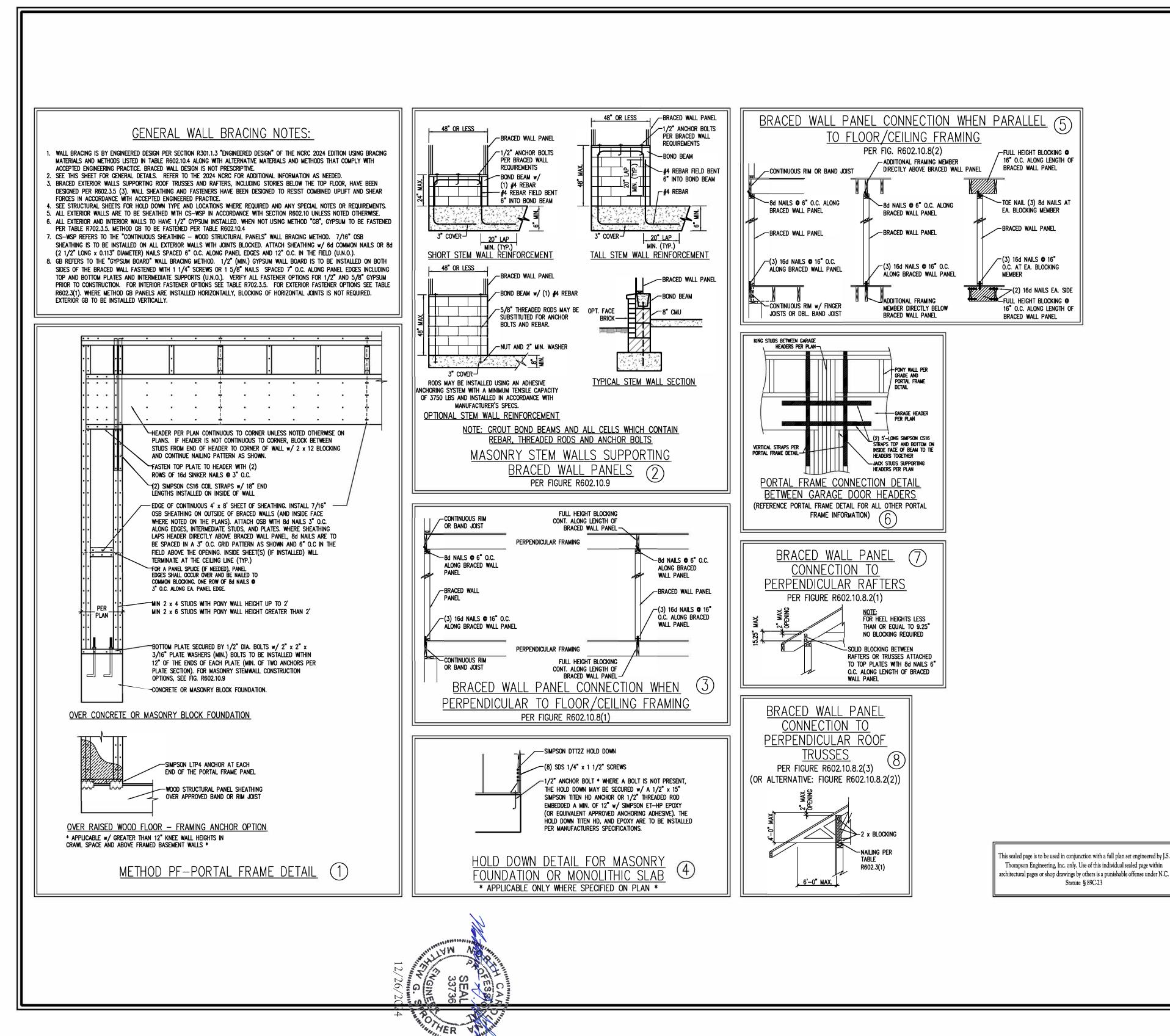
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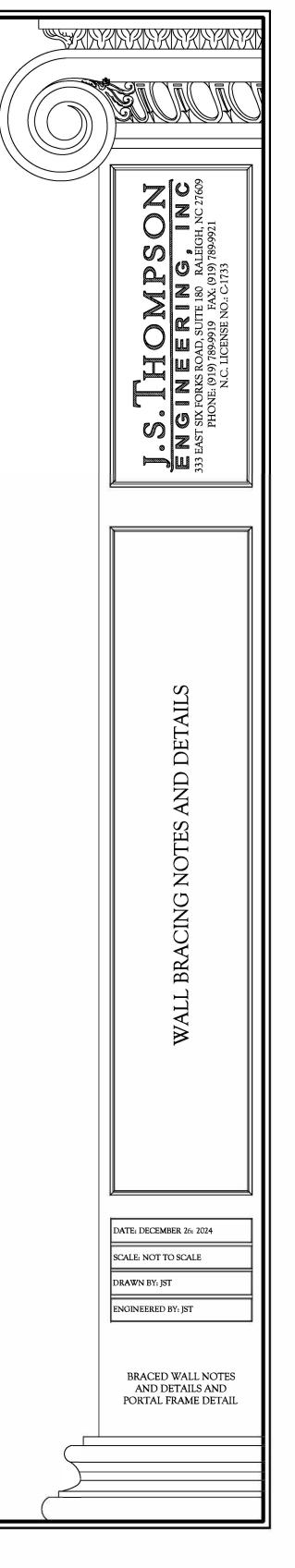
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## GENERAL NOTES

- 1. ENGINEER'S SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS INCLUDING ROOF RAFTERS, HIPS, VALLEYS, RIDGES, FLOORS, WALLS, BEAMS, HEADERS, COLUMNS, CANTILEVERS, 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) NEG. (PSF) PRESSURE 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 W	IND ZONE				15
		POS. (PSF) PRESSURE	NEG. (PSF) PRESSURE			
	FLAT ROOF	+ 8.6	- 60.6		GABLE ROOF CLADDING	FL/
GABLE ROOF	2.25 TO 5/12	+ 13.1	- 67.8			2.25
CLADDING	5 TO 7/12	+ 15.8	- 57			5
	7 TO 12/12	+ 19.4	- 48			7 1
	2.25 TO 5/12	+ 15.8	- 49.8		HIP ROOF CLADDING	2.25
HIP ROOF - Cladding _	5 TO 7/12	+ 15.8	- 39.1			5
	7 TO 12/12	+ 15.1	- 48.4			7 1
WALL CLADDING		+ 21.1	- 28.3		WALL CLADDING	

CLADDING	5 TO 7/12	+ 13.6	- 49.2
	7 TO 12/12	+ 16.7	- 41.4
HIP ROOF CLADDING	2.25 TO 5/12	+ 13.6	- 43
	5 TO 7/12	+ 13.6	- 33.7
	7 TO 12/12	+ 13	- 41.7
WALL CLADDING		+ 18.2	- 24.4
150 MPH WIND ZONE			
		POS. (PSF) PRESSURE	NEG. (PSF) PRESSURE
			<u> </u>

130 MPH WIND ZONE

FLAT ROOF

2.25 TO 5/12

GABLE ROOF

POS. (PSF)

PRESSURE

+ 7.4

+ 11.3

NEG. (PSF)

PRESSURE

- 52.2

- 58.4

DEFLECTION (IN)

L/360 L/360

L/360

L/360

L/360

L/360

L/360

L/360

L/360

L/240 (L/360 w/ BRITTLE FINISHES)

		PRESSURE	PRESSURE
GABLE ROOF	FLAT ROOF	+ 9.9	- 69.6
	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
	2.25 TO 5/12	+ 18.1	- 57.2
HIP ROOF CLADDING	5 TO 7/12	+ 18.1	- 44.9
OENDDING	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. <u>EXCEPTION:</u> #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 UNI

- 6. THE UNSUPPOR TEN TIMES THE WALLS SHALL E
- 7. THE CENTER OF PIERS.

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

1. ALL FRAMIN SYP MINIMUI

2. Laminated Shall have Following i Properties:

3. STRUCTURA

A. B. C. D. E.

4. STEEL BEAMS SUPPORT TO

A. WOOD FRB. CONCRETEC. MASONRYD. STEEL PIF

LATERAL SUP SECURED TO ARE USED TO

- 5. SQUARES DEI BLOCKING TC
- 6. ALL LOAD BE (UNO), WHICH POINT (UNO)
- ALL BEAMS, BEAMS OR GI TRUSSES PER (UNO). BEAR

8. FLITCH BEAMS CENTERS (MA

9. ALL I-JOIST OF THE ENGI

- 10. BRACED WALL LOCATION OF
- 11. PROVIDE DOU PLAN. INSTAL

12. FOR ALL HEA BRICK SUPPO STAGGERED F PLY BETWEEN

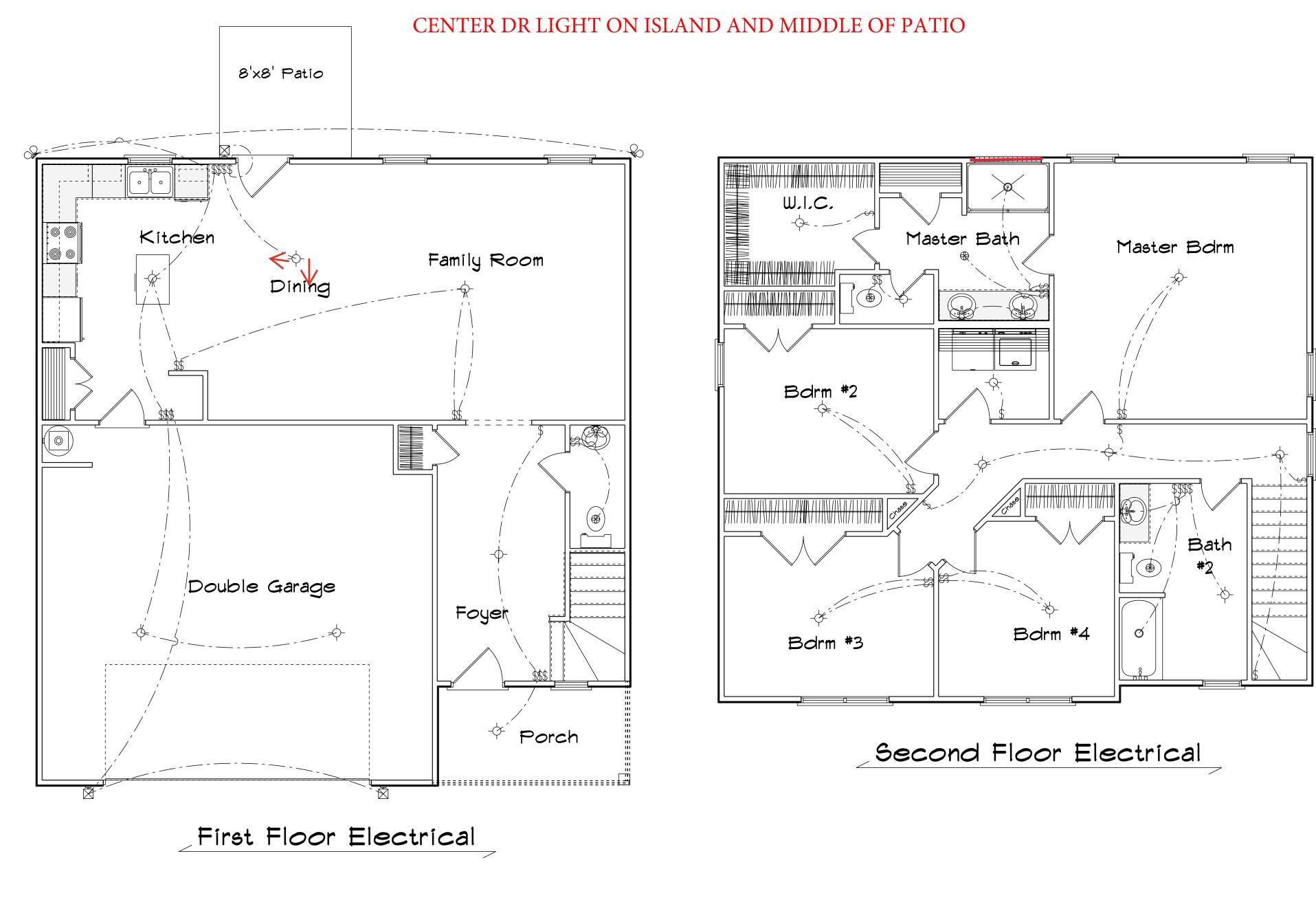
13. FOR STICK FR THREE ROWS

14. FOR TRUSSED SECTIONS WITH

15. ALL 4 x 4 A SIMPSON CS1 CONCRETE FO

16. CONSTRUCT

TS TO CONFORM TO ACE 530/ASCE 5/TMS 402. MORTAR SHALL CONFORM TO ASTM C270.	STATE REPORTED AND A CONTRACT OF
RTED HEIGHT OF MASONRY PIERS SHALL NOT EXCEED FOUR TIMES THEIR LEAST DIMENSION FOR UNFILLED HOLLOW CONCRETE MASONRY EIR LEAST DIMENSION FOR SOLID OR SOLID FILLED PIERS. PERS MAY BE FILLED SOLID WITH CONCRETE OR TYPE M OR S MORTAR. PIEF BE CAPPED WITH 8" OF SOLID MASONRY.	
OF EACH OF THE PIERS SHALL BEAR IN THE MIDDLE THIRD OF ITS RESPECTIVE FOOTING. EACH GIRDER SHALL BEAR IN THE MIDDLE THI	RD OF THE
E AND MASONRY FOUNDATION WALLS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE PROVISIONS OF SECTION R404 OF THE NCRO DANCE WITH ACI 318, ACI 332, NCMA TR68—A OR ACE 530/ASCE 5/TMS 402. MASONRY FOUNDATION WALLS ARE TO BE REINFORCED R404.1.1(3), OR R404.1.1(4) OF THE NCRC, 2024 EDITION. CONCRETE FOUNDATION WALLS ARE TO BE REINFORCED PER TABLE R404.1.2( TTE FOUNDATION WALLS TO 2 x 6 FRAMED WALLS AT 16" O.C. WHERE GRADE PERMITS (UNO).	PER TABLE R404.1.1(1),
FRAMING NOTES	3) 3 (899)
IG LUMBER SHALL BE #2 SPF MINIMUM (Fb = 875 PSI, Fv = 375 PSI, E = 1600000 PSI) UNLESS NOTED OTHERWISE (UNO). ALL TREA M (Fb = 975 PSI, Fv =175 PSI, E = 1600000 PSI) UNLESS NOTED OTHERWISE (UNO).	ATED LUMBER SHALL BE #2
VENEER LUMBER (LVL) SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Fb =2600 PSI, Fv = 285 PSI, E = 1900000 PSI. LAMINAT E THE FOLLOWING MINIMUM PROPERTIES: Fb = 2325 PSI, Fv = 310 PSI, E = 1550000 PSI. PARALLEL STRAND LUMBER (PSL) UP TO MINIMUM PROPERTIES: Fc = 2500 PSI, E =1800000 PSI. PARALLEL STRAND LUMBER (PSL) MORE THAN 7" DEPTH SHALL HAVE THE F E: Fc = 2900 PSI, E = 2000000 PSI. INSTALL ALL CONNECTIONS PER MANUFACTURER'S SPECIFICATIONS.	7" DEPTH SHALL HAVE THE
L STEEL SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS	
W AND WT SHAPES: ASTM A992	
CHANNELS AND ANGLES: ASTM A36	
PLATES AND BARS: ASTM A36 HOLLOW STRUCTURAL SECTIONS: ASTM A500 GRADE B.	<u> <u> </u></u>
STEEL PIPE: ASTM AST, GRADE B, ASTA S	
AS SHALL BE SUPPORTED AT EACH END WITH A MOMENT BEARING LEPERTOR 3 1/2" AND FULL FLANGE WIDTH (UNO). PROVIDE SOLI O FOUNDATION. BEAMS SHALL BE ATTACHED AT THE BOTTOR FANSE TO FACH SUPPORT AS FOLLOWS (UNO):	D BEARING FROM BEAM
RAMING (2) F 2 DAG x 4" LONG 193 STREWS	
Y (FULLY GROUTED) (2) 1/2" DA SAR LONG SUR SON TITEN HD ANCHORS IPE COLUMN (4) 3/4" DIA. A323" BOL, OR 3/16" FILLET WELD	
IFE COLOMIN (4) 374 DIA. A323 BOLLOOK 3710 FILLET WELD	
IPPORT IS CONSIDERED ADEQUATE PROVIDING THE JOISTS ARE TOE NAILED TO THE 2× NAILER ON TOP OF THE STEEL BEAM, AND THE O THE TOP OF THE STEEL BEAM w/ (2) ROWS OF SELF TAPPING SCREWS @ 16" O.C. OR (2) ROWS OF 1/2" DIAMETER BOLTS @ 16" O. TO FASTEN THE NAILER, THE STEEL BEAM SHALL BE FABRICATED w/ (2) ROWS OF 9/16" DIAMETER HOLES @ 16" O.C.	.C. IF 1/2" BOLTS
ENOTE POINT LOADS WHICH REQUIRE SOLID BLOCKING TO GIRDER OR FOUNDATION. SHADED SQUARES DENOTE POINT LOADS FROM ABO TO SUPPORTING MEMBER BELOW.	VE WHICH REQUIRE SOLID
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 AN CHEVER IS GREATER ALL HEADERS TO BE SECURED TO EACH JACK STUD WITH (4) 8d NAILS. ALL BEAMS TO BE SUPPORTED WITH (2) I). 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 JA GIRDER TRUSSES PERPENDICULAR TO WALL AND SUPPORTED BY (3) STUDS OR LESS ARE TO HAVE 1 1/2" MINIMUM BEARING (UNO). ERPENDICULAR TO WALL AND SUPPORTED BY MORE THAN (3) STUDS OR OTHER NOTED COLUMN ARE TO BEAR FULLY ON SUPPORT COL AM ENDS THAT BUTT INTO ONE ANOTHER ARE TO EACH BEAR EQUAL LENGTHS (UNO).	
MS SHALL BE BOLTED TOGETHER USING 1/2" DIAMETER BOLTS (ASTM A307) WITH WASHERS PLACED AT THREADED END OF BOLT. BO MAXIMUM), AND STAGGERED AT TOP AND BOTTOM OF BEAM (2" EDGE DISTANCE), WITH (2) BOLTS LOCATED AT 6" FROM EACH END (UN	
T OR TRUSS LAYOUTS ARE TO BE IN COMPLIANCE WITH THE OVERALL DESIGN SPECIFIED ON THE PLANS. ALL DEVIATIONS ARE TO BE I GINEER OF RECORD PRIOR TO INSTALLATION.	BROUGHT TO THE ATTENTION
ILL PANELS SHALL BE CONSTRUCTED ACCORDING TO THE NORTH CAROLINA RESIDENTIAL CODE 2024 EDITION WALL BRACING CRITERIA. T OF BRACING SHALL COMPLY WITH ALL APPLICABLE TABLES IN SECTION R602.10.	THE AMOUNT, LENGTH, AND
DUBLE JOIST UNDER ALL WALLS PARALLEL TO FLOOR JOISTS. PROVIDE SUPPORT UNDER ALL WALLS PARALLEL TO FLOOR TRUSSES OR ALL BLOCKING BETWEEN JOISTS OR TRUSSES FOR POINT LOAD SUPPORT FOR ALL POINT LOADS ALONG OFFSET LOAD LINES.	I-JOISTS PER STRUCTURAL
EADERS SUPPORTING BRICK VENEER THAT ARE LESS THAN 8'-0" IN LENGTH, REST A 6" x 4" x 5/16" STEEL ANGLE WITH 6" MINIMUM PORT (U.N.O). FOR ALL HEADERS 8'-0" AND GREATER IN LENGTH, BOLT A 6" x 4" x 5/16" STEEL ANGLE TO HEADER WITH 1/2" LAG FOR BRICK SUPPORT. FOR ALL BRICK SUPPORT AT ROOF LINES, BOLT A 6" x 4" x 5/16" STEEL ANGLE TO (2) 2 x 10 BLOCKING IN EN WALL STUDS WITH (2) ROWS OF 1/2" LAG SCREWS AT 12" O.C. STAGGERED AND IN ACCORDANCE WITH SECTION R703.8.2.1 OF THE	SCREWS AT 12" O.C. STALLED w/ (4) 12d NAILS EA.
FRAMED ROOFS: CIRCLES DENOTE (3) 2 x 4 POSTS FOR ROOF MEMBER SUPPORT. HIP SPLICES ARE TO BE SPACED A MINIMUM OF 8' S OF 12d NAILS AT 16" O.C. FRAME DORMER WALLS ON TOP OF DOUBLE OR TRIPLE RAFTERS AS SHOWN (UNO).	-0". FASTEN MEMBERS WITH
ED ROOFS: FRAME DORMER WALLS ON TOP OF 2 x 4 LADDER FRAMING AT 24" O.C. BETWEEN ADJACENT ROOF TRUSSES. STICK FRAM /ITH 2 x 8 RIDGES, 2 x 6 RAFTERS AT 16" O.C. AND FLAT 2 x 10 VALLEYS (UNO).	E OVER-FRAMED ROOF
AND 6 x 6 POSTS TO BE INSTALLED WITH 700 LB CAPACITY UPLIFT CONNECTORS TOP AND BOTTOM (UNO.) POSTS MAY BE SECURED S16 COIL STRAPPING WITH 9" END LENGTHS OR (2) 6" LONG SIMPSON SDS SCREWS (OR EQUAL) DRIVEN AT AN ANGLE FROM OPPOSITE FOUNDATION USE SIMPSON POST BASE.	
ALL WOOD DECKS ACCORDING TO CHAPTER 47-WOOD DECKS.	STRUCTURAL NOTES
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Sheet #5

12-26-24

