RESIDENTIAL STANDARD NOTES

DESIGN LOADS:

1) Design loads are all dead loads plus.

)	Des	sign loads are all dead loads plus:					
	A)	Sleeping rooms					
	B)	All other floors 40 PSF					
	C)	Balconies 60 PSF					
	D)	Attic floor live loading with the following:					
		i) Area accessible by stairs					
		ii) Roof slopes > 3:12 20 PSF					
		iii) Roof slopes $< 3:12$ 10 PSF					
	E)	Roof Live Load 20 PSF					
	G)	Snow Load 10 PSF					
	H)	Wind Load 150 MPH					
	I)	Exposure CategoryC					
	J)	DP Rating					
	K)	Seismic Category D2					
	т١	Decumentary Cotegenry II					

L) Occupancy Category .

- 2) All designs are in accordance with the 2021 International Residential Code. Refer to the relevant Code for any additional information not covered in these notes or the designs
- 3) Engineering design is for structural information only. The Engineer of Record does not accept responsibility for dimension errors, architectural errors, detailing of waterproofing, plumbing, electrical, or mechanical information or any part of the plan not relevant to the structural information.

RESIDENTIAL FOUNDATIONS:

- 1) Shallow foundations are designed for an assumed soil bearing capacity of 2,000 psf. The contractor is responsible for notifying the Engineer of Record if any soils are found to be unsuitable for this bearing capacity. The contractor is responsible for obtaining soil testing to ensure that the bearing capacity of the soil meets or exceeds this value. All fill is to be compacted to 95% density as measured by the Standard Proctor Test (ASTM D-698).
- 2) All soils and fill under floors and/or within or under buildings shall have preconstruction soil treatment for protection against termites. Certification of Compliance shall be issued to the Building Department by a licensed pest control company.
- 3) All footing excavations shall be neat, straight, and level in the proper elevations to receive the concrete. Excessive variations in the dimensions of footings or slabs will not be permitted. Reinforcing steel and mesh shall be accurately placed and supported to maintain their position during the concrete pouring. Edge forms shall be used for concrete that will be exposed.
- 4) All slab penetrations are to be the responsibility of the contractor. Penetrations interfering with reinforcing shall be approved by the Engineer of Record prior to the placement of concrete.
- 5) Elevations differences between the bottom of adjacent footings shall be less than their horizontal distance less one foot. Differential heights between footings can become excessive usually where a pier footing in a crawlspace or garage footing is next to a basement wall footing.

FRAMING CONSTRUCTION - OTHER THAN ROOF:

- 1) See Table R602.3(1) of the Code for a fastener schedule for structural member
- 2) Built-up wood columns consisting of multiple studs shall have each lamination face nailed with 10d nails at 16'' o/c.
- 3) To avoid objectionable cracking in finished hardwood floors over any girders, use the following procedure:
- A) Nailing

i) All floor joists must be to enailed to their support girders with a minimum of 3-8d nails at each end. Larger nails will split and render the toenail ineffective. No end nailing through the girder or band is permitted.

ii) If dropped girders are used, end lap all joists and side nail each with a minimum of 3-16d nails at each end of each joist. Ledger strips should be spaced 3" apart and nailed with 3-16d nails at each joist end.

ii)Nail multiple member built-up girders with two rows of 16d nails staggered at 32" o/c. 2" down from the top and 2" up from the bottom with 3–16d nails at each end of each piece in the joist through the members making up the multiple girder

iv) This nailing pattern will ensure a tight floor from the outside of the house to the outside so that when the framing shrinks during the first heating season, the shrinkage will be uniformly distributed over the entire floor. If the girder nailing pattern is omitted, then the shrinkage will accumulate over the girders and an objectionable crack will develop in the finished hardwood floor over the girder line.

B) At all girders where the joists change direction, install bridging at 6' o/c for a minimum of six joist spacings beyond any joist direction change. This will insure shrinkage distribution over the floor and not let it accumulate at the girder.

C) There must be wood blocking thru bolted to the steel beam with joists toenailed or attached to the beam with metal hangers under any hardwood floors that pass over a steel beam supporting floor joists. This condition often exists over basement areas.

- 4) All lumber to be Southern Pine #2 unless noted otherwise.
- 5) Steel beams must have 5-2x 4 stud jacks under each end support unless noted otherwise.
- 6) "Lam" beams must have 3-2x4 stud jacks under each end support unless noted otherwise.
- 7) Brick Veneer to be anchored to studs w/ corrosion resistant metal ties embedded in mortar or grout and extending into the veneer a minimum of $1\frac{1}{2}$ " w/ not less than $\frac{5}{8}$ " mortar or grout cover to outside face. If strand wire, ties shall not be less than No.9 U.S. Gage by $\frac{7}{8}$ " corrugated. Each tie shall be spaced at 16" O.C. horizontally and 16" O.C. vertically. Each tie shall not support more than 2 square feet of wall area. Additional metal ties shall be provided around wall openings greater than 16" in either dimension. Metal ties around the perimeter of openings shall be spaced not more than 16" O.C. and placed within 12" of the wall opening.
- 8) Weepholes shall be provided in the outside wythe of masonry walls at a maximum spacing of 33" O.C. Weepholes shall be not less than $\frac{3}{16}$ " in diameter. Weepholes shall be located immediately above the flashing.
- 9) Flashing shall be installed per Section R703.8.5
- 10) Brick Masonry lintels:
- A) Masonry lintels to be per Table R703.8.3.1 U.N.O. on plans
- B) For spans 9-feet to 18-feet lap all 9-gauge wire splices a minimum of 12" and extend wires a minimum of 12" into jambs. Temporarily support the steel angles before laying masonry. The shoring may be removed five days following the installation of masonry
- C) When structural steel beams with bottom plates are used to support masonry, the bottom plate must extend the full length of the steel beam. This provides support to the ends of the plate by bearing on the adjacent masonry jambs. The beam should be temporarily shored prior to laying the masonry. The shoring may be removed five days after laying the masonry.
- 8) All brick veneer over lower roofs (brick climbs) must have a structural angle lag screwed to an adjacent stud wall in accordance with detail, with steel brick stops to prevent sliding of brick.
- 9) All rafter braces must have two studs from plate through all floors to the foundation or supporting beam below. No braces shall be attached to top wall plate without studs directly under them.

- THE FOUNDATION.

- finished surfaces.

ROOF CONSTRUCTION:

- cracking

- FLOOD RESISTANT CONSTRUCTION:

LUMBER GENERAL

- 1) All common MATERIAL #2 Spruce Pir #2 Southern
- 2) All Structural APPLICATION Girders & Bea Columns (PSL $1\frac{1}{5}$ " Rimboards
- All Glue Lami APPLICATION Girders & Bea Columns
- 4) Open Web Flo APPLICATION Top & Bottom Columns (LSL)

GENERAL NOTES

10) Unless otherwise recommended by joist/truss manufacturer, where partitions fall between floor joists or trusses, 2 x 4 ladders at 16" o/c must be placed perpendicular to the trusses to support the plywood decking. The ladders shall be supported with Simpson "Z" clip or similar device.

11) All wood I-joists and open joists must be braced in accordance with the manufacturer's directions plus details shown on plans. Load-bearing partitions, jacks, beams and column supports must be solid blocked through floor. Trusses and plywood shall not carry concentrated point loads. I-joist material should not be used as blocking under concentrated point loads. All point loads must be carried to foundations with adequate blocking and/or beams.

12) Gable end walls at rooms with vaulted ceiling joists: Balloon frame wall and provide triple king stud on each side of openings, nailed securely to the header.

13) Unless otherwise recommended by floor truss manufacturer, continuous 2 x 6 bridging shall be nailed to diagonal or vertical web members of all open-web floors trusses over 10' long. They shall be installed near mid-span as a load distribution member. If the 2 x 6 bridging is not continuous, lab ends of bridging one truss space

14) Ceiling joists when erected parallel to rafters must be face nailed to rafters with 8–16d nails at each rafter. If a kneewall is used and ceiling joists cannot touch rafters, or if ceiling joists run perpendicular to rafters, see rafter tie connection detail. 15) Ends of ceiling joists shall be lapped not less than 3-inches and shall be face nailed to lapped joist with 8-16d nails

16) At all exterior diagonal wall panels, each panel shall be nailed to each adjacent panel with 5-16d nails or tied together with

metal stripping nailed at four locations between floors with a minimum of 2–16d nails into each panel at each strap. This will avoid vertical cracking in panel joints due to horizontal oscillating panels.

17) At all stairs, every stud at each stringer must be nailed to each stringer with a minimum of 2–16d nails. This will avoid cracking between wallboard and top of base molding due to vertical oscillation of stair stringers.

18) All structural framing lumber exposed directly to the weather or bearing directly on exterior masonry piers or concrete shall be treated. All wood in contact with the ground is to be ground-contact approved. All wood exposed directly to the weather shall be protected to prevent the occurrence of rot.

19) Unless otherwise detailed, all stick-built "false chimneys" shall be constructed with 2 x 4 studs at 12" o/c, balloon-framed from attic ceiling or floor. Fasten 15/32" CDX plywood on all sides of the chimney along the full length of the studs. Fasten each stud to the supporting beam or ceiling joist with a 1 $\frac{1}{2}$ " x 24", 18-gauge metal strap, or a similar connector.

20) ALL POINT LOADS FROM ROOF BRACES, JACK STUDS, BEAM SUPPORTS - WHETHER WOOD OR STEEL - CANNOT BEAR ON SHEATHING ALONE. BLOCKING EQUAL TO OR BETTER THAN THE POINT LOAD SUPPORTS ABOVE MUST BE CARRIED THROUGH ALL CONSTRUCTION TO

21) Note to apply to all hard coat stucco exterior finishes:

A) Joints are necessary at the following locations:

i) Horizontally at each floor line.

ii) No areas larger than 144 S.F. surface exposed.

iii)No dimension longer than 18'.

iv) No dimension longer than 2 $\frac{1}{2}$ times the shortest dimension.

B) Drip screed required at the bottom of all walls 2" above paved areas and 4" above grade

C) See ASTM 926 and 1063 for further information

D) Application of an approved chemical curing compound.

E) The curing shall continue until the cumulative number or days when the ambient temperature above 50°F has totaled seven. During curing, the concrete shall be protected from any mechanical injury, load stresses, shock, vibration, or damage to

1) All roof trusses must be built in accordance with truss manufacturers' requirements. Tie-down connections to resist uplift shall be installed where required. When roof truss manufacturers do not provide the required connectors, it is the responsibility of the contractor to notify the roof truss engineer or the Engineer of Record to provide an adequate connector.

2) Roof trusses that have non-bearing partitions passing under them should be nailed to the partition plates to avoid ceiling-wall

13) Roof trusses close to side walls framing and used as dead wood for sheetrock boards should be nailed to the wall framing to prevent ceiling-wall cracking.

14) All lower ends of valley and hip members which bear on a top plate use a Simpson HCP or equivalent connector.

15) A minimum of three collar ties shall be used at all ridges even if two ties must be put on one set of rafters.

16) Rafters may be spliced over hogs. Splice rafter hogs only at a roof brace.

17) Maximum spacing of roof braces is to be 4'-0'' 0.C.

18) Braces longer than 8-feet must be braced horizontally in 2 directions at mid height

1) All materials located below the DFE (Design Flood Elevation) shall be Type 4 or Type 5 Materials per FEMA Technical Bulletin 2. For full list of approved materials visit

https://www.fema.gov/sites/default/files/2020-07/fema_tb_2_flood_damage-resistant_materials_requirements.pdf

Flood vents shall be installed in enclosed areas below the DFE. Pre-manufactured engineered flood vents should be used and shall certified to provide a minimum of 200 sq.ft. of flood protection per unit. Contractor must provide appropriate number of flood

vents to provide flood protection for the entire enclosed area below DFE. Flood vents shall be placed such that 2)a. There shall be not less than two openings on different sides of each enclosed area; if a building has more than one enclosed area below DFE, each area shall have openings

2)b. The bottom of each opening shall not be more than 1 foot above the higher of the final interior grade or floor and the finished exterior grade immediately under each opening

2)c. Openings shall be permitted to be installed in doors and windows; doors and windows without installed openings do not meet the requirement of this section

3) All framed walls located below the DFE must be constructed as a breakaway wall (applies to Coastal A and V-Zones only)

MATERIAL SPECIFICATIONS:

NOTES:	

framing lumber is to meet the following minimum specifications at 19% moisture content:							
	<u>Fb (psi)</u>	<u>Ft (psi)</u>	<u>Fc (psi)(Perp)</u>	<u>Fc (psi)(Parallel)</u>	<u>E (psi)</u>		
ine Fur	875	450	425	1150	1,400,000		
Pine	750	450	565	1250	1,400,000		
al Composite	e Lumber (LVL,	LSL, PSL) is	to meet the follow	ing minimum spec	cifications:		
	<u>Fb (psi)</u>	<u>Fc (psi)(P</u>	<u>arallel) Fc (psi)(Pe</u>	erp.) <u>E (psi)</u>			
eams (LVL)	2,600	2,510	750	2,000,000			
SL)	2,900	2,900	750	1,800,000			
ds (LSL)	1,700	1,835	710	1,300,000			
	. (~)						
	• • •	is to meet t	he following minimu	im specifications:			
]	Fb (psi) Fo	<u>c (psi)(Parall</u>	<u>el) Fc (psi)(Perp.)</u>	<u> </u>			
eams 2	2,400	1,600	650	1,800,000			
, ,	2,400	1,600	650	1,800,000			
oor Trusses:							
	fb						

n	Chords	Per Truss Manf.	Per Truss Manf.
.)	& Rimboards	950	1.4E Lumber

CONCRETE GENERAL NOTES

1) Except where otherwise noted, for all concrete, the proportions of cement, aggregate, and water to attain required plasticity and compressive strength shall be in accordance with ACI 301 Code. Concrete shall be 3,000 psi in 28 days unless noted otherwise.

- A) Ponding or continuous sprinkling.
- B) Absorptive mat or fabric kept continuously wet. C) Waterproof paper conforming to ASTM C171
- D) Application of an approved chemical curing compound.
- concrete cover shall be provided over reinforcing bars: A) Exposed to Earth

B)Exposed to Weather

C) Slabs not Exposed to Weather D)Beams and Columns

	REINFORCEMENT LA
	SPLICE LI
BAR SIZE ND.	FOOTINGS & STEMWALLS (40KS) REBAR)
4	20
5	25
6	30

MASONRY GENERAL NOTES:

- provisions of ACI 530.
- 3) Concrete Building Brick: ASTM C55 made with lightweight or normal aggregates.
- than three parts sand per on part mix.

STEEL GENERAL NOTES:

- to ASTM A36 having a minimum yield strength of 36.000 psi.

2) Before placing concrete, all debris, water and other deleterious material shall be removed from the places to be occupied by the concrete. The placing of all concrete shall be in accordance with ACI 318 and ACI 301 requirements. Concrete shall be rapidly handled from the mixer to forms and deposited as nearly as possible to its final position to avoid segregation due to rehandling. Concrete to be spaded and worked by hand and vibrated to assure close contact with all surfaces of forms and reinforcing steel and leveled off at proper grade to receive finish. All concrete shall be placed upon clean, damp surfaces. Vibration shall be applied directly to the concrete and shall be sufficient to cause flow of settlement but not long enough to cause segregation of the mix.

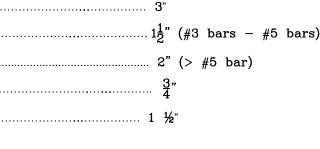
3) Construction joints shall be located in accordance with ACI 224. All reinforcing steel shall be continuous across joints. In slabs on grade, saw contraction joints shall not be over 12 feet center to center each way. Joints shall be sawn a depth of one-third of the slab thickness. Sawing of the joints shall commence as soon as the concrete has hardened sufficiently to permit sawing without excessive raveling. Fill the saw cuts with approved joint filler after the concrete has cured.

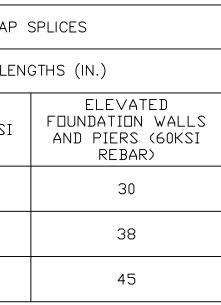
Concrete, when deposited, shall have a temperature not below 50°F and not above 90°F. The methods and recommended practices as described in ACI 306 shall be followed for cold weather concreting and ACI 305 for hot weather concreting.

5) Freshly placed concrete shall be protected from premature drying by one of the following methods:

The curing shall continue until the cumulative number or days when the ambient temperature above 50°F has totaled seven. During curing, the concrete shall be protected from any mechanical injury, load stresses, shock, vibration, or damage to finished surfaces.

Reinforcing steel bars shall be deformed in accordance with ASTM A305 and or A408 and formed of ASTM A615 steel. Welded wire fabric reinforcing to be ASTM A185 steel wire. Accessories shall conform to the CRSI "Manual of Standard Practice." The following minimum





1) Masonry walls are to be of the sizes and in the locations shown on the plans and shall be constructed in accordance with the

2) Hollow Load Bearing Units: ASTM C90 made with lightweight or normal weight aggregates.

4) Mortar: ASTM C270, Type S prepackaged mortar mix which shall not contain any non-cementitious fillers combined with not more

5) Reinforcing Steel: ASTM A615 Grade 60 steel deformed bars where indicated on the plans. Where reinforcing bars are installed in the cells of concrete masonry units, they shall be secured with wire ties at intervals not exceeding 24" o/c to maintain the bars location in the cell. The tolerance for spacing of vertical bars is ± 2 inches along the length of the wall. The tolerance for the distance between the face of the concrete masonry unit and the center of the bar shall not exceed $\pm \frac{1}{2}$ ".

6) Mortar protrusion shall be less than ½". A protrusion of ½" or greater must be removed before grouting.

7) Horizontal Joint Reinforcement: ASTM A82 fabricated from cold drawn steel wire and hot dip zinc coated (ASTM A153). It shall consist of two or more parallel, longitudinal wires 0.1875" in diameter with weld-connected cross wires 0.1483" in diameter at a minimum of 16" o/c. Joint reinforcement is to be installed in every other course and in the first two courses at the bottom and top of wall openings and shall extend not less than 24" past the opening. Splices shall overlap not less than 12".

8) Execution: Masonry units shall be laid in a running bond pattern unless noted otherwise. The walls shall be carried up level and plumb within the tolerances specified in ACI 530.1, Section 3.3. If nonstandard dimensions are encountered, block shall be cut with a masonry saw to fit, not by stretching or shrinking joints. Unfinished work shall be stepped back for joining with new work. Toothing will not be permitted except where specifically approved. Damaged units are to be cut out and new units set in place.

9) The filled cells and bond beam blocks of reinforced masonry walls are to be filled with ASTM C476. Grout for Masonry with minimum compressive stress of 2,000 psi and slump range or 8" to 11". The outside face of the bottom block of each cell is to be broken out for inspection of reinforcing and clean out of mortar droppings in cell. The grout is to be pumped into the cell in maximum five foot lifts and immediately vibrated to minimize any voiding of the grout. Reconsolidate each lift by vibrating several inches into the preceding lift before plasticity is lost. Reconsolidate the top lift and fill with grout any space left by settlement shrinkage.

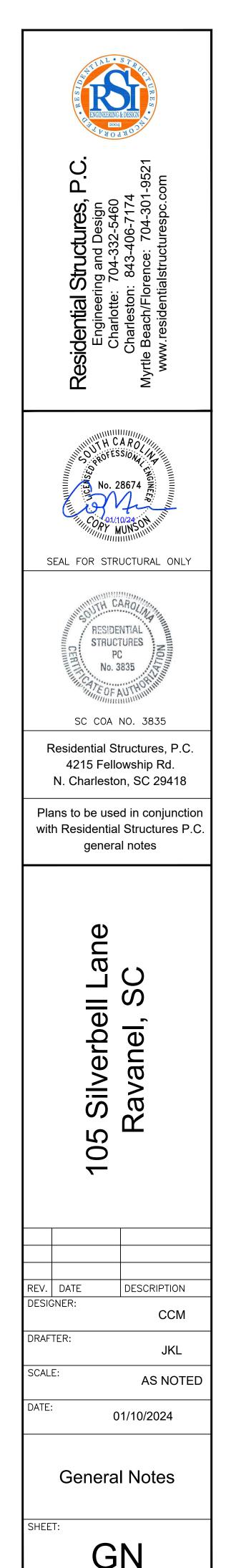
1) All steel wide flange beams shall conform to ASTM A572 having a minimum yield stress of 50,000 psi.

2) All steel pipes shall be Schedule 40 or better with a minimum yield stress of 35,000 psi.

3) All steel tubes shall conform to ASTM A500, Grade B, having a minimum yield stress of 46,000 psi.

4) All other shapes not listed above shall conform to ASTM A36 having a minimum yield stress of 36,000 psi.

5) Unless otherwise noted, all welds shall be fillet type with a minimum 3/16" leg. Welding electrodes shall be E70xx type having a minimum yield strength of 70,000 psi. Welding work and materials shall conform to the American Welding Society Code (AWS D.1). 6) Bolted connections shall include high strength bolts conforming to ASTM A325. Foundation anchor bolts or tie rods shall conform



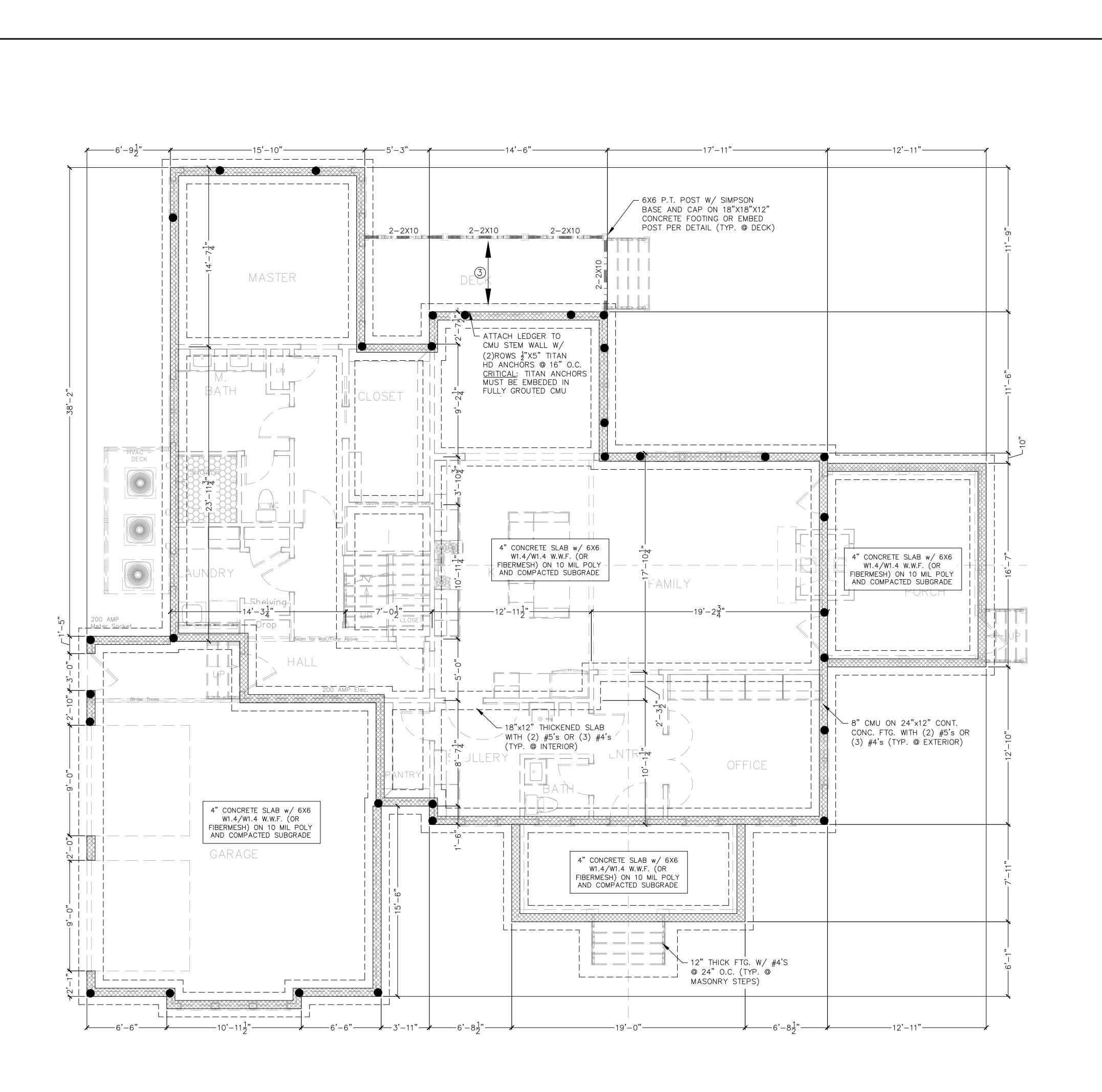
FOUNDATION NOTES:

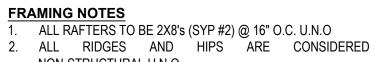
1.	BUILDING FOOT	PRINT	DIMENSI	ONS	ARE	BASED	ON
	ARCHITECTURAL	PLANS	PROVI	DED.	E.O.	R. IS	NOT
	RESPONSIBLE	FOR	DIM	ENSIO	NAL	ERR	ORS.
	CONTRACTOR TO) COOR	DINATE	WITH	E.O.R	. PRIOF	R TO
	FOUNDATION	CONST	RUCTIO	Ν	TO	RESC	OLVE
	DISCREPANCIES.						
2.	SEE DETAILS REINFORCEMENT	-	R T	PICAL	F	OUNDA	TION

- 3. TRANSFER ALL POINT LOADS ABOVE TO FOUNDATION WITH AN EQUAL NUMBER OF STUDS
- ALL CONCRETE TO BE 3000 PSI (MIN)
- SOIL TO HAVE A MIN 2000 PSF BEARING CAPACITY ALL CONT. FOOTINGS TO BEAR MIN 18" BELOW GRADE OR AS RECOMMENDED PER GEOTECHNICAL EVALUATION

FOUNDATION LEGEND

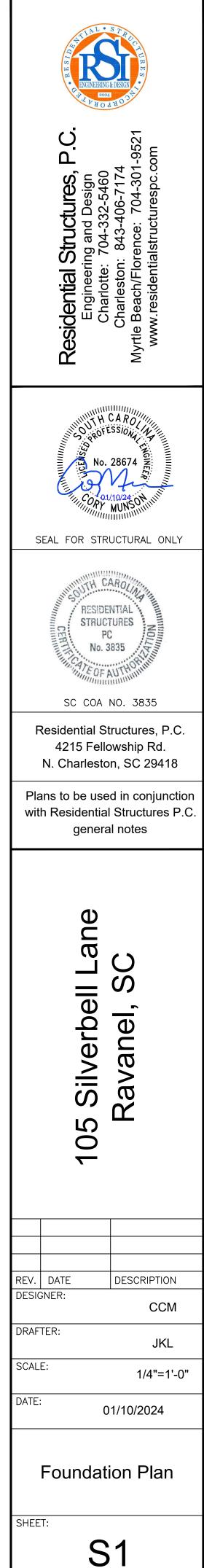
- HOLDOWN LOCATIONS (LOCATIONS SHOWN ON FOUNDATION SHEETS ARE FOR REFERENCE
- ONLY IN ORDER TO COORDINATE FOUNDATION ANCHORAGE AND REINFORCEMENT PLACEMENT AS NECESSARY. SEE SHEAR WALL PLANS FOR SPECIFIC HOLDOWN ELEMENTS)

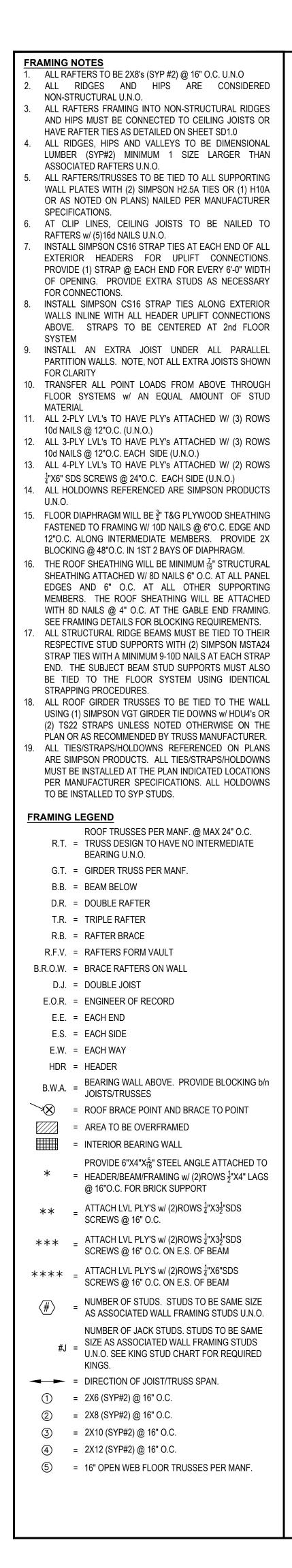


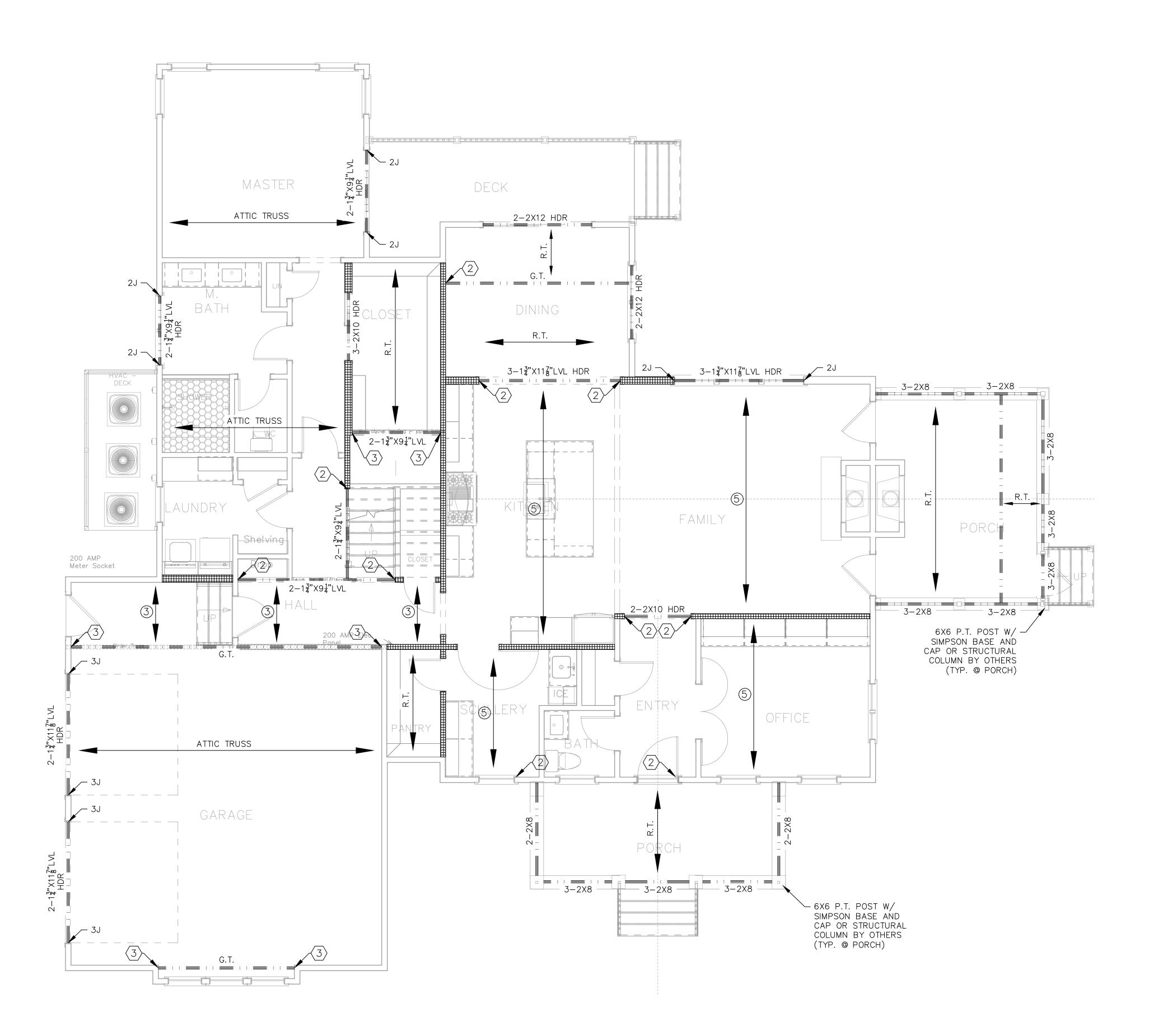


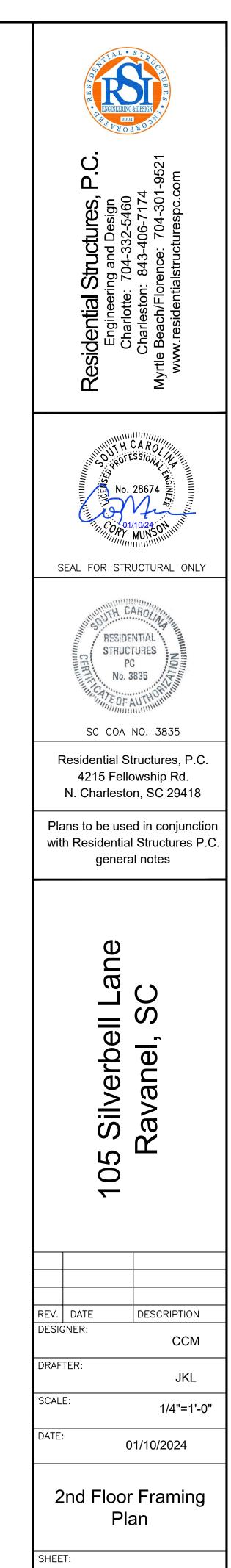
- NON-STRUCTURAL U.N.O. ALL RAFTERS FRAMING INTO NON-STRUCTURAL RIDGES AND HIPS MUST BE CONNECTED TO CEILING JOISTS OR
- HAVE RAFTER TIES AS DETAILED ON SHEET SD1.0 ALL RIDGES, HIPS AND VALLEYS TO BE DIMENSIONAL LUMBER (SYP#2) MINIMUM 1 SIZE LARGER THAN
- ASSOCIATED RAFTERS U.N.O. ALL RAFTERS/TRUSSES TO BE TIED TO ALL SUPPORTING WALL PLATES WITH (2) SIMPSON H2.5A TIES OR (1) H10A OR AS NOTED ON PLANS) NAILED PER MANUFACTURER
- SPECIFICATIONS. AT CLIP LINES, CEILING JOISTS TO BE NAILED TO
- RAFTERS w/ (5)16d NAILS U.N.O. INSTALL SIMPSON CS16 STRAP TIES AT EACH END OF ALL EXTERIOR HEADERS FOR UPLIFT CONNECTIONS. PROVIDE (1) STRAP @ EACH END FOR EVERY 6'-0" WIDTH OF OPENING. PROVIDE EXTRA STUDS AS NECESSARY
- FOR CONNECTIONS. INSTALL SIMPSON CS16 STRAP TIES ALONG EXTERIOR WALLS INLINE WITH ALL HEADER UPLIFT CONNECTIONS ABOVE. STRAPS TO BE CENTERED AT 2nd FLOOR SYSTEM
- INSTALL AN EXTRA JOIST UNDER ALL PARALLEL PARTITION WALLS. NOTE, NOT ALL EXTRA JOISTS SHOWN FOR CLARITY
- 10. TRANSFER ALL POINT LOADS FROM ABOVE THROUGH FLOOR SYSTEMS w/ AN EQUAL AMOUNT OF STUD MATERIAL
- 11. ALL 2-PLY LVL'S TO HAVE PLY'S ATTACHED W/ (3) ROWS 10d NAILS @ 12"O.C. (U.N.O.)
- 12. ALL 3-PLY LVL'S TO HAVE PLY'S ATTACHED W/ (3) ROWS
- 10d NAILS @ 12"O.C. EACH SIDE (U.N.O.) 13. ALL 4-PLY LVL'S TO HAVE PLY'S ATTACHED W/ (2) ROWS $\frac{1}{4}$ "X6" SDS SCREWS @ 24"O.C. EACH SIDE (U.N.O.)
- 14. ALL HOLDOWNS REFERENCED ARE SIMPSON PRODUCTS U.N.O.
- 15. FLOOR DIAPHRAGM WILL BE $\frac{3}{4}$ " T&G PLYWOOD SHEATHING FASTENED TO FRAMING W/ 10D NAILS @ 6"O.C. EDGE AND 12"O.C. ALONG INTERMEDIATE MEMBERS. PROVIDE 2X BLOCKING @ 48"O.C. IN 1ST 2 BAYS OF DIAPHRAGM.
- 16. THE ROOF SHEATHING WILL BE MINIMUM $\frac{1}{16}$ " STRUCTURAL SHEATHING ATTACHED W/ 8D NAILS 6" O.C. AT ALL PANEL EDGES AND 6" O.C. AT ALL OTHER SUPPORTING MEMBERS. THE ROOF SHEATHING WILL BE ATTACHED WITH 8D NAILS @ 4" O.C. AT THE GABLE END FRAMING. SEE FRAMING DETAILS FOR BLOCKING REQUIREMENTS.
- ALL STRUCTURAL RIDGE BEAMS MUST BE TIED TO THEIR RESPECTIVE STUD SUPPORTS WITH (2) SIMPSON MSTA24 STRAP TIES WITH A MINIMUM 9-10D NAILS AT EACH STRAP END. THE SUBJECT BEAM STUD SUPPORTS MUST ALSO BE TIED TO THE FLOOR SYSTEM USING IDENTICAL STRAPPING PROCEDURES.
- 18. ALL ROOF GIRDER TRUSSES TO BE TIED TO THE WALL USING (1) SIMPSON VGT GIRDER TIE DOWNS w/ HDU4's OR (2) TS22 STRAPS UNLESS NOTED OTHERWISE ON THE PLAN OR AS RECOMMENDED BY TRUSS MANUFACTURER.
- 19. ALL TIES/STRAPS/HOLDOWNS REFERENCED ON PLANS ARE SIMPSON PRODUCTS. ALL TIES/STRAPS/HOLDOWNS

MUST BE INSTALLED AT THE PLAN INDICATED LOCATIONS PER MANUFACTURER SPECIFICATIONS. ALL HOLDOWNS TO BE INSTALLED TO SYP STUDS.					
FRAMING	L	EGEND			
		ROOF TRUSSES PER MANF. @ MAX 24" O.C. TRUSS DESIGN TO HAVE NO INTERMEDIATE BEARING U.N.O.			
GT	=	GIRDER TRUSS PER MANE.			
		BEAM BELOW			
		DOUBLE RAFTER			
		TRIPLE RAFTER			
R.B.	=	RAFTER BRACE			
R.F.V.	=	RAFTERS FORM VAULT			
B.R.O.W.	=	BRACE RAFTERS ON WALL			
D.J.	=	DOUBLE JOIST			
E.O.R.	=	ENGINEER OF RECORD			
E.E.	=	EACH END			
E.S.	=	EACH SIDE			
E.W.	=	EACH WAY			
HDR	=	HEADER			
B.W.A.	=	BEARING WALL ABOVE. PROVIDE BLOCKING b/n JOISTS/TRUSSES			
\searrow	=	ROOF BRACE POINT AND BRACE TO POINT			
	=	AREA TO BE OVERFRAMED			
	=	INTERIOR BEARING WALL			
*	=	PROVIDE 6"X4" X_{16}^5 " STEEL ANGLE ATTACHED TO HEADER/BEAM/FRAMING w/ (2)ROWS $\frac{1}{2}$ "X4" LAGS @ 16"O.C. FOR BRICK SUPPORT			
**	=	ATTACH LVL PLY'S w/ (2)ROWS $\frac{1}{4}$ "X3 $\frac{1}{2}$ "SDS SCREWS @ 16" O.C.			
***	=	ATTACH LVL PLY'S w/ (2)ROWS ¹ / ₄ "X3 ¹ "SDS SCREWS @ 16" O.C. ON E.S. OF BEAM			
****	=	ATTACH LVL PLY'S w/ (2)ROWS 1 "X6"SDS SCREWS @ 16" O.C. ON E.S. OF BEAM			
$\langle \# \rangle$	=	NUMBER OF STUDS. STUDS TO BE SAME SIZE AS ASSOCIATED WALL FRAMING STUDS U.N.O.			
#J	=	NUMBER OF JACK STUDS. STUDS TO BE SAME SIZE AS ASSOCIATED WALL FRAMING STUDS U.N.O. SEE KING STUD CHART FOR REQUIRED KINGS.			
	=	DIRECTION OF JOIST/TRUSS SPAN.			
1	=	2X6 (SYP#2) @ 16" O.C.			
2	=	2X8 (SYP#2) @ 16" O.C.			
3	=	2X10 (SYP#2) @ 16" O.C.			
4	=	2X12 (SYP#2) @ 16" O.C.			
5	=	16" OPEN WEB FLOOR TRUSSES PER MANF.			
J					









FRAMING NOTE:

ALL EXTERIOR WALLS THIS LEVEL TO BE MIN 2X4 @ 16" O.C. U.N.O. (SEE EXTERIOR STUD WALL REQUIREMENTS CHART FOR ADDITIONAL REQUIREMENTS)

FRAMING NOTE:

ALL EXTERIOR WALL HEADERS THIS LEVEL TO BE MIN 2-2X10 (SYP#2) (U.N.O) w/ (1)JACK @ EACH END (U.N.O.). SEE KING STUD CHART FOR COUNTS PER OPENING SIZE (U.N.O ON PLANS)

FRAMING NOTE

ALL INTERIOR LOAD BEARING WALL HEADERS THIS LEVEL TO BE 2-2X8 (SYP#2) w/ (1)JACK @ EACH END (U.N.O.)

TYPICAL HANGERS MEMBER HANGER 2X8 LUS28 2X10 LUS210 2X12 LUS210 (2) 2X8 HUS28-2 (2) 2X10 HUS210-2 (2) 2X12 HUS212-2 (3) 2X8 LUS28-3 (3) 2X10 LUS210-3 (3) 2X12 LUS210-3 $(2) 9\frac{1}{4}$ / $(2) 11\frac{7}{8}$ LVL HGUS410 (2) 14" / (2) 16" / (2) 18" LVL HGUS414 (3) 9¹/₄" LVL HGUS5.50/10 (3) 11⁷/₈" LVL HGUS5.50/12 (3) 14" / (3) 16" / (3) 18" LVL HGUS5.50/14 (4) 9<u>4</u>" LVL HGUS7.25/10 (4) 118" LVL HGUS7.25/12 (4) 14" / (4) 16" / (4) 18" LVL HGUS7.25/14

EXTERIOR WALL STUD REQUIREMENTS

EXT. STUD HEIGHT (h) NOTE: HEIGHT IS FOR STUDS ONLY AND DOES NOT INCLUDE TOP PLATE	MIN. STUD SIZE AND SPACING U.N.O. IN FRAMING NOTES OR ON FRAMING PLANS
h ≤ 10'-0"	SEE FRAMING NOTES
10'-0" < h ≤ 13'-0"	2X6 @ 16" O.C.
13'-0" < h ≤ 16'-0"	2X6 @ 12" O.C
16'-0" < h ≤ 20'-0"	2-2X6 @ 16" O.C.
h > 20'-0"	CONSULT ENGINEER
EXTERIOR	WALL
KING STUD	CHART
	# OF KINGS (U.N.O.

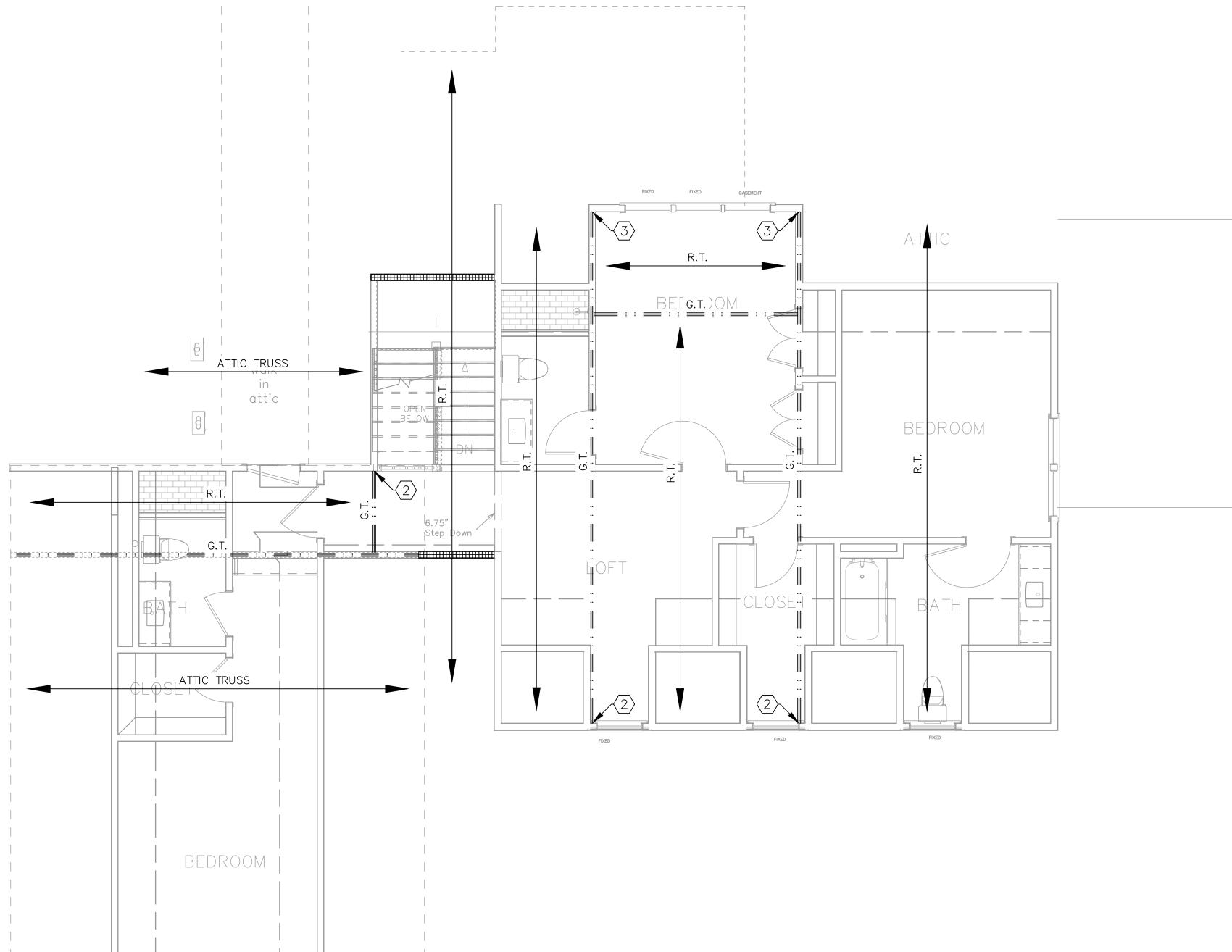
OPENING WIDTH (W)	ON PLANS)
0' < W <u><</u> 3'	1 EACH END
3' < W ≤ 6'	2 EACH END
6' < W <u><</u> 9'	3 EACH END
9' < W <u><</u> 12'	4 EACH END
12' < W <u><</u> 15'	5 EACH END
15' < W <u><</u> 18'	6 EACH END

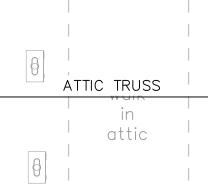
18' < W <u><</u> 21'

S2

7 EACH END

 NC AL AN ALUS AL AN ALUS ALUS <	L RIGGES AND HIPS ARE CONSIDERED IN-STRUCTURAL U.N.O. L RAFTERS FRAMING INTO NON-STRUCTURAL RIDGES ID HIPS MUST BE CONNECTED TO CEILING JOISTS OR VE RAFTER TIES AS DETAILED ON SHEET 5D1.0 L RIDGES, HIPS AND VALLEYS TO BE DIMENSIONAL MBER (SYP#2) MINIMUM 1 SIZE LARGER THAN SOCIATED RAFTERS U.N.O. L RAFTERS/TRUSSES TO BE TIED TO ALL SUPPORTING ALL PLATES WITH (2) SIMPSON H2.5A TIES OR (1) H10A RAS NOTED ON PLANS) NAILED PER MANUFACTURER ECIFICATIONS. CLIP LINES, CEILING JOISTS TO BE NAILED TO FTERS w/ (5)16d NAILS U.N.O. STALL SIMPSON C316 STRAP TIES AT EACH END OF ALL TERIOR HEADERS FOR UPLIFT CONNECTIONS. OVIDE (1) STRAP @ EACH END FOR EVERY 6-0° WIDTH OPENING. PROVIDE EXTRA STUDS AS NECESSARY R CONNECTIONS. STALL SIMPSON C316 STRAP TIES ALONG EXTERIOR ALLS INLINE WITH ALL HEADER UPLIFT CONNECTIONS. OVIDE (1) STRAP @ EACH END FOR EVERY 6-0° WIDTH OPENING. PROVIDE EXTRA STUDS AS NECESSARY R CONNECTIONS. STALL SIMPSON C316 STRAP TIES ALONG EXTERIOR ALLS INLINE WITH ALL HEADER UPLIFT CONNECTIONS OVE. STRAPS TO BE CENTERED AT 2nd FLOOR STEM STALL AN EXTRA JOIST UNDER ALL PARALLEL RTITION WALLS. NOTE, NOT ALL EXTRA JOISTS SHOWN R CLARITY ANSFER ALL POINT LOADS FROM ABOVE THROUGH OOR SYSTEMS w/ AN EQUAL AMOUNT OF STUD TERIAL L 2-PLY LVL'S TO HAVE PLY'S ATTACHED W/ (3) ROWS INAILS @ 12"O.C. (U.N.O.) L 3-PLY LVL'S TO HAVE PLY'S ATTACHED W/ (2) ROWS INAILS @ 12"O.C. EACH SIDE (U.N.O.) L 4-PLY LVL'S TO HAVE PLY'S ATTACHED W/ (2) ROWS INAILS @ 12"O.C. IN ST 2 BAYS OF DIAPHRAGM. E ROOT SHEATHING WILL BE ³ / TAG PLYWOOD SHEATHING STENED TO FRAMING W/ 10D NAILS @ 6'O.C. EDGE AND O.C. ALONG INTERMEDIATE MEMBERS. PROVIDE 2X OCKING @ 48"O.C. IN 1ST 2 BAYS OF DIAPHRAGM. E ROOT SHEATHING WILL BE MINIMUM ⁴ //S TRUCTURAL EATHING ATTACHED W/ 8D NAILS OF 0.C. AT ALL PANEL GES AND 6" O.C. AT THE GABLE END FRAMING. E ROOT SHEATHING WILL BE MINIMUM ⁴ //S TRUCTURAL RENOT SUBJECT BEAM STUD SUPPORTS MUST ALSO OCKING @ 48"O.C. IN 1ST 2 BAYS OF DIAPHRAGM. E ROOT SHEATHING WILL BE ATTACHED
 HAL ALU AS ALU AS<!--</td--><td>VE RAFTER TIES AS DETAILED ON SHEET SD1.0 L RIDGES, HIPS AND VALLEYS TO BE DIMENSIONAL MBER (SYP#2) MINIMUM 1 SIZE LARGER THAN SOCIATED RAFTERS U.N.O. L RAFTERS/TRUSSES TO BE TIED TO ALL SUPPORTING ALL PLATES WITH (2) SIMPSON H2.5A TIES OR (1) H10A R AS NOTED ON PLANS) NAILED PER MANUFACTURER ECIFICATIONS. CLIP LINES, CEILING JOISTS TO BE NAILED TO FTERS W (5)164 NAILS U.N.O. STALL SIMPSON CS16 STRAP TIES AT EACH END OF ALL TERIOR HEADERS FOR UPLIFT CONNECTIONS. OVIDE (1) STRAP @ EACH END FOR EVERY 6'-0' WIDTH OPENING. PROVIDE EXTRA STUDS AS NECESSARY R CONNECTIONS. STALL SIMPSON CS16 STRAP TIES ALONG EXTERIOR ALLS INLINE WITH ALL HEADER UPLIFT CONNECTIONS. OVIE. STRAPS TO BE CENTERED AT 2nd FLOOR STALL AN EXTRA JOIST UNDER ALL PARALLEL RTITION WALLS. NOTE, NOT ALL EXTRA JOISTS SHOWN R CLARTY ANSFER ALL POINT LOADS FROM ABOVE THROUGH DOR SYSTEMS W/ AN EQUAL AMOUNT OF STUD TERIAL 1 2-PLY LVL'S TO HAVE PLY'S ATTACHED W/ (3) ROWS 1 MAILS @ 12"O.C. EACH SIDE (U.N.O.) L 3-PLY LVL'S TO HAVE PLY'S ATTACHED W/ (2) ROWS 10 MAILS @ 12"O.C. EACH SIDE (U.N.O.) L 4-PLY LVL'S TO HAVE PLY'S ATTACHED W/ (2) ROWS 10 MAILS @ 12"O.C. EACH SIDE (U.N.O.) L 4-PLY LVL'S TO HAVE PLY'S ATTACHED W/ (2) ROWS 10 MAILS @ 12"O.C. IN ST 2 BAYS OF DIAPHRAGM. E ROOF SHEATHING WILL BE ³/// TAG PLYWOOD SHEATHING STENED TO FRAMING W/ 10D NAILS @ 6'O.C. EDGE AND O.C. ALONG INTERMEDIATE MEMBERS. PROVIDE 2X OCKING @ 48'O.C. IN 1ST 2 BAYS OF DIAPHRAGM. E ROOF SHEATHING WILL BE ATTACHED H 8D NAILS @ 4" O.C. AT THE GABLE END FRAMING. E ROOF SHEATHING WILL BE ATTACHED W/ 2) SIMPSON MSTA24 RAP TIES WITH A MINIMUM 9-10D NAILS AT EACH STRAP THE SUBJECT BEAM STUD SUPPORTING MUST ALSO TIED TO THE FLOOR SYSETM USING IDENTICAL RAPPING PROCEDURES. L ROOF GRUER TRUSSES FOR MANF. @ MAX 24" O.C. RT. = RUSS DESIGN TO HAVE NO INTERMEDIATE BEARING U.N.O. S.T. = GIRDER TRUSSES PER MANF. @ MAX 24" O.C. RT. = TRUSS DESIGN TO HAVE NO INTERMEDIATE BEARING U.N.O. S.T. = GIRDER TRUSS PER MANF.</td>	VE RAFTER TIES AS DETAILED ON SHEET SD1.0 L RIDGES, HIPS AND VALLEYS TO BE DIMENSIONAL MBER (SYP#2) MINIMUM 1 SIZE LARGER THAN SOCIATED RAFTERS U.N.O. L RAFTERS/TRUSSES TO BE TIED TO ALL SUPPORTING ALL PLATES WITH (2) SIMPSON H2.5A TIES OR (1) H10A R AS NOTED ON PLANS) NAILED PER MANUFACTURER ECIFICATIONS. CLIP LINES, CEILING JOISTS TO BE NAILED TO FTERS W (5)164 NAILS U.N.O. STALL SIMPSON CS16 STRAP TIES AT EACH END OF ALL TERIOR HEADERS FOR UPLIFT CONNECTIONS. OVIDE (1) STRAP @ EACH END FOR EVERY 6'-0' WIDTH OPENING. PROVIDE EXTRA STUDS AS NECESSARY R CONNECTIONS. STALL SIMPSON CS16 STRAP TIES ALONG EXTERIOR ALLS INLINE WITH ALL HEADER UPLIFT CONNECTIONS. OVIE. STRAPS TO BE CENTERED AT 2nd FLOOR STALL AN EXTRA JOIST UNDER ALL PARALLEL RTITION WALLS. NOTE, NOT ALL EXTRA JOISTS SHOWN R CLARTY ANSFER ALL POINT LOADS FROM ABOVE THROUGH DOR SYSTEMS W/ AN EQUAL AMOUNT OF STUD TERIAL 1 2-PLY LVL'S TO HAVE PLY'S ATTACHED W/ (3) ROWS 1 MAILS @ 12"O.C. EACH SIDE (U.N.O.) L 3-PLY LVL'S TO HAVE PLY'S ATTACHED W/ (2) ROWS 10 MAILS @ 12"O.C. EACH SIDE (U.N.O.) L 4-PLY LVL'S TO HAVE PLY'S ATTACHED W/ (2) ROWS 10 MAILS @ 12"O.C. EACH SIDE (U.N.O.) L 4-PLY LVL'S TO HAVE PLY'S ATTACHED W/ (2) ROWS 10 MAILS @ 12"O.C. IN ST 2 BAYS OF DIAPHRAGM. E ROOF SHEATHING WILL BE ³ /// TAG PLYWOOD SHEATHING STENED TO FRAMING W/ 10D NAILS @ 6'O.C. EDGE AND O.C. ALONG INTERMEDIATE MEMBERS. PROVIDE 2X OCKING @ 48'O.C. IN 1ST 2 BAYS OF DIAPHRAGM. E ROOF SHEATHING WILL BE ATTACHED H 8D NAILS @ 4" O.C. AT THE GABLE END FRAMING. E ROOF SHEATHING WILL BE ATTACHED W/ 2) SIMPSON MSTA24 RAP TIES WITH A MINIMUM 9-10D NAILS AT EACH STRAP THE SUBJECT BEAM STUD SUPPORTING MUST ALSO TIED TO THE FLOOR SYSETM USING IDENTICAL RAPPING PROCEDURES. L ROOF GRUER TRUSSES FOR MANF. @ MAX 24" O.C. RT. = RUSS DESIGN TO HAVE NO INTERMEDIATE BEARING U.N.O. S.T. = GIRDER TRUSSES PER MANF. @ MAX 24" O.C. RT. = TRUSS DESIGN TO HAVE NO INTERMEDIATE BEARING U.N.O. S.T. = GIRDER TRUSS PER MANF.
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W/ OF SP 6. AT RANSE PROFO 8. WARSY 9. PO 10. FL MAL 10. AL 11. 12. 13. 4. U. 12. 13. 4. U. 13. 14. 15. FL 14. 15. FL 15. FL 16. ST 17. RESENT 17. RESENT 18. US 2) PL 19. AL 10. FL 11. 10. AL 10. AL	ALL PLATES WITH (2) SIMPSON H2.5A TIES OR (1) H10A & AS NOTED ON PLANS) NAILED PER MANUFACTURER ECIFICATIONS. CLIP LINES, CEILING JOISTS TO BE NAILED TO FTERS w(6)16d NAILS U.N.O. STALL SIMPSON CS16 STRAP TIES AT EACH END OF ALL TERIOR HEADERS FOR UPLIFT CONNECTIONS. OVIDE (1) STRAP @ EACH END FOR EVERY 6'-0' WIDTH OPENING, PROVIDE EXTRA STUDS AS NECESSARY R CONNECTIONS. STALL SIMPSON CS16 STRAP TIES ALONG EXTERIOR ALLS INLINE WITH ALL HEADER UPLIFT CONNECTIONS OVE. STRAPS TO BE CENTERED AT 2nd FLOOR STEM STALL AN EXTRA JOIST UNDER ALL PARALLEL RTITION WALLS. NOTE, NOT ALL EXTRA JOISTS SHOWN R CLARITY ANSFER ALL POINT LOADS FROM ABOVE THROUGH DOR SYSTEMS w/ AN EQUAL AMOUNT OF STUD ITERIAL 2-PLY LVL'S TO HAVE PLY'S ATTACHED W/ (3) ROWS 1 NAILS @ 12"O.C. (U.N.O.) L 3-PLY LVL'S TO HAVE PLY'S ATTACHED W/ (3) ROWS 1 NAILS @ 12"O.C. EACH SIDE (U.N.O.) L 4-PLY LVL'S TO HAVE PLY'S ATTACHED W/ (2) ROWS 1 NAILS @ 12"O.C. EACH SIDE (U.N.O.) L 4-PLY LVL'S TO HAVE PLY'S ATTACHED W/ (2) ROWS 10 ORD SCREWS @ 24"O.C. EACH SIDE (U.N.O.) L HOLDOWNS REFERENCED ARE SIMPSON PRODUCTS 10. DOR DIAPHRAGM WILL BE ³ / [*] T&G PLYWOOD SHEATHING STENED TO FRAMING WI 10D NAILS @ 6"O.C. EDGE AND 10.C. ALONG INTERMEDIATE MEMBERS. PROVIDE 2X 10.C. ALONG INTERMEDIATE MEMBERS. PROVIDE 2X 10.C. ALONG INTERMEDIATE MEMBERS. PROVIDE 2X 10.C. ALONG GHATICHED W/ 8D NAILS 6" O.C. AT ALL PANEL GES AND 6" O.C. AT ALL OTHER SUPPORTING EMBERS. THE ROOF SHEATHING WILL BE MINIMUM ^T / ₁₀ STRUCTURAL EATHING ATTACHED W/ 8D NAILS 6" O.C. AT ALL PANEL GES AND 6" O.C. AT ALL OTHER SUPPORTING EMBERS. THE ROOF SHEATHING WILL BE ANTACHED 11 HS NAILS 0.4" O.C. AT ALL OTHER SUPPORTING EMBERS. THE ROOF SHEATHING WILL BE AND FAMING. E ROOF GIRDER TRUSSES TO BE TIED TO THEIR SPECTIVE STUD SUPPORTS WITH (2) SIMPSON MSTA24 RAP TIES WITH A MINIMUM 9-10D NAILS AT EACH STRAPS D. THE SUBJECT BEAM STUD SUPPORTS MUST ALSO TIED TO THE FLOOR SYSTEM USING IDENTICAL RAPPING PRODUCTS. ALL TIES/STRAPS/HOLDOWNS IST BE INSTALLED AT THE P
6. AT RA 7. INSEX PROFO 8. INSEA 9. INSEA 10. TEL 11. 10. AL 12. AL 13. 4. AL 14. AL 15. FA2 16. TEL 16. TEL 17. AL 10. AL 17. AL 10. AL 1	CLIP LINES, CEILING JOISTS TO BE NAILED TO FTERS W/ (5)16d NAILS U.N.O. STALL SIMPSON CS16 STRAP TIES AT EACH END OF ALL TERIOR HEADERS FOR UPLIFT CONNECTIONS. OVIDE (1) STRAP @ EACH END FOR EVERY 6'-0' WIDTH OPENING. PROVIDE EXTRA STUDS AS NECESSARY R CONNECTIONS. STALL SIMPSON CS16 STRAP TIES ALONG EXTERIOR ALLS INLINE WITH ALL HEADER UPLIFT CONNECTIONS OVE. STRAPS TO BE CENTERED AT 2nd FLOOR STEM STALL AN EXTRA JOIST UNDER ALL PARALLEL RTITION WALLS. NOTE, NOT ALL EXTRA JOISTS SHOWN R CLARITY ANSFER ALL POINT LOADS FROM ABOVE THROUGH DOR SYSTEMS W/ AN EQUAL AMOUNT OF STUD ITERIAL 2 -PLY LVL'S TO HAVE PLY'S ATTACHED W/ (3) ROWS 3 HAILS @ 12"O.C. (U.N.O.) L 3-PLY LVL'S TO HAVE PLY'S ATTACHED W/ (3) ROWS 3 HAILS @ 12"O.C. EACH SIDE (U.N.O.) L 4-PLY LVL'S TO HAVE PLY'S ATTACHED W/ (2) ROWS 3 HAILS @ 12"O.C. EACH SIDE (U.N.O.) L 4-PLY LVL'S TO HAVE PLY'S ATTACHED W/ (2) ROWS 3 HAILS @ 12"O.C. EACH SIDE (U.N.O.) L 4-PLY LVL'S TO HAVE PLY'S ATTACHED W/ (2) ROWS 3 HAILS @ 12"O.C. EACH SIDE (U.N.O.) L 4-PLY LVL'S TO HAVE PLY'S ATTACHED W/ (2) ROWS 3 HAILS @ 14"O.C. EACH SIDE (U.N.O.) L 4-PLY LVL'S TO HAVE PLY'S ATTACHED W/ 20 ROWS 3 HAILS @ 48"O.C. IN 15T 2 BAYS OF DIAPHRAGM. E ROOF SHEATHING WILL BE ³ // T&G PLYWOOD SHEATHING STENED TO FRAMING W/ 10D NAILS @ 6"O.C. EDGE AND O.C. ALONG INTERMEDIATE MEMBERS. PROVIDE 2X OCKING @ 48"O.C. AT ALL OTHER SUPPORTING E ROOF SHEATHING WILL BE MINIMUM $\frac{7}{16}$ STRUCTURAL EATHING ATTACHED W/ 8D NAILS 6" O.C. AT ALL PANEL GES AND 6" O.C. AT ALL OTHER SUPPORTING MBERS. THE ROOF SHEATHING WILL BE ATTACHED TH 8D NAILS @ 4" O.C. AT THE GABLE END FRAMING. E FRAMING DETAILS FOR BLOCKING REQUIREMENTS. L STRUCTURAL RIDGE BEAMS MUST BE TIED TO THER SPECTIVE STUD SUPPORTS WITH (2) SIMPSON MSTA24 RAP TIES WITH A MINIMUM 9-10D NAILS AT EACH STRAP D. THE SUBJECT BEAM STUD SUPPORTS MUST ALSO TIED TO THE FLOOR SYSTEM USING IDENTICAL RAPPING PROCEDURES. L ROOF GIRDER TRUSSES TO BE TIED TO THE WALL ING (1) SIMPSON VGT GIRDER TIE DOWNS W/ HDU4'S O
7. INS EXPROPO 8. INS 9. INS 9	STALL SIMPSON CS16 STRAP TIES AT EACH END OF ALL TERIOR HEADERS FOR UPLIFT CONNECTIONS. OVIDE (1) STRAP @ EACH END FOR EVERY 6-0" WIDTH OPENING. PROVIDE EXTRA STUDS AS NECESSARY R CONNECTIONS. STALL SIMPSON CS16 STRAP TIES ALONG EXTERIOR ALLS INLINE WITH ALL HEADER UPLIFT CONNECTIONS OVE. STRAPS TO BE CENTERED AT 2nd FLOOR STEM STALL AN EXTRA JOIST UNDER ALL PARALLEL RTITION WALLS. NOTE, NOT ALL EXTRA JOISTS SHOWN R CLARITY ANSFER ALL POINT LOADS FROM ABOVE THROUGH OOR SYSTEMS W/ AN EQUAL AMOUNT OF STUD ITERIAL L 2-PLY LVL'S TO HAVE PLY'S ATTACHED W/ (3) ROWS 3 NAILS @ 12"O.C. (U.N.O.) L 3-PLY LVL'S TO HAVE PLY'S ATTACHED W/ (3) ROWS 3 NAILS @ 12"O.C. EACH SIDE (U.N.O.) L 4-PLY LVL'S TO HAVE PLY'S ATTACHED W/ (2) ROWS 6" SDS SCREWS @ 24"O.C. EACH SIDE (U.N.O.) L 4-PLY LVL'S TO HAVE PLY'S ATTACHED W/ (2) ROWS 60. COR DIAPHRAGM WILL BE ³ /" T&G PLYWOOD SHEATHING STENED TO FRAMING W/ 10D NAILS @ 6"O.C. EDGE AND 0.C. ALONG INTERMEDIATE MEMBERS. PROVIDE 2X 00CKING @ 48"O.C. IN 1ST 2 BAYS OF DIAPHRAGM. E ROOF SHEATHING WILL BE MINIMUM ⁷ /6" STRUCTURAL EATHING ATTACHED W/ 8D NAILS 6" O.C. AT ALL PANEL GES AND 6" O.C. AT ALL OTHER SUPPORTING 6. MBERS. THE ROOF SHEATHING WILL BE ATTACHED TH 8D NAILS @ 4" 0.C. AT THE GABLE END FRAMING. E FRAMING DETAILS FOR BLOCKING REQUIREMENTS. L STRUCTURAL RIDGE BEAMS MUST BE TIED TO THEIR SPECTIVE STUD SUPPORTS WITH (2) SIMPSON MSTA24 RAP TIES WITH A MINIMUM 9-10D NAILS AT EACH STRAP D. THE SUBJECT BEAM STUD SUPPORTS MUST ALSO TIED TO THE FLOOR SYSTEM USING IDENTICAL RAPPING PROCEDURES. L ROOF GIRDER TRUSSES TO BE TIED TO THE WALL ING (1) SIMPSON VGT GIRDER TIE DOWNS W/ HDU4'S OR TS22 STRAPS JUNLESS NOTED OTHERWISE ON THE AN OR AS RECOMMENDED BY TRUSS MANUFACTURER. L TIES/STRAPS/HOLDOWNS REFERENCED ON PLANS 45 BIMPSON PRODUCTS. ALL TIES/STRAPS/HOLDOWNS 15 BE INSTALLED TO SYP STUDS. INDE ALLED TO SYP STUDS. INDE ALLED TO SYP STUDS. INDELEGEND ROOF TRUSSES PER MANF. @ MAX 24" O.C. R.T. = RUSS DESIGN TO HAVE NO INTERMEDIATE BEARING U.N.O. S.T. = GIRDER TRUSS PER MANF.
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14. AL 14. AL 15. FL ¹ 16. TH 16. TH 17. AL 16. TH 17. AL 17. AL 18. AL 19. AL 19. AL 19. AL 19. AL 19. AL 10. F 10.	 (6" SDS SCREWS @ 24"O.C. EACH SIDE (U.N.O.) L HOLDOWNS REFERENCED ARE SIMPSON PRODUCTS N.O. OOR DIAPHRAGM WILL BE ³/₄" T&G PLYWOOD SHEATHING STENED TO FRAMING W/ 10D NAILS @ 6"O.C. EDGE AND O.C. ALONG INTERMEDIATE MEMBERS. PROVIDE 2X OCKING @ 48"O.C. IN 1ST 2 BAYS OF DIAPHRAGM. E ROOF SHEATHING WILL BE MINIMUM ⁷/₁₆" STRUCTURAL EATHING ATTACHED W/ 8D NAILS 6" O.C. AT ALL PANEL GES AND 6" O.C. AT ALL OTHER SUPPORTING IMBERS. THE ROOF SHEATHING WILL BE ATTACHED TH 8D NAILS @ 4" O.C. AT ALL OTHER SUPPORTING. E FRAMING DETAILS FOR BLOCKING REQUIREMENTS. L STRUCTURAL RIDGE BEAMS MUST BE TIED TO THEIR SPECTIVE STUD SUPPORTS WITH (2) SIMPSON MSTA24 RAP TIES WITH A MINIMUM 9-10D NAILS AT EACH STRAP D. THE SUBJECT BEAM STUD SUPPORTS MUST ALSO TIED TO THE FLOOR SYSTEM USING IDENTICAL RAPPING PROCEDURES. L ROOF GIRDER TRUSSES TO BE TIED TO THE WALL ING (1) SIMPSON VGT GIRDER TIE DOWNS w/ HDU4'S OR TS22 STRAPS UNLESS NOTED OTHERWISE ON THE AN OR AS RECOMMENDED BY TRUSS MANUFACTURER. L TIES/STRAPS/HOLDOWNS REFERENCED ON PLANS IS TBE INSTALLED AT THE PLAN INDICATED LOCATIONS R MANUFACTURER SPECIFICATIONS. ALL HOLDOWNS IS TBE INSTALLED AT THE PLAN INDICATED LOCATIONS R MANUFACTURER SPECIFICATIONS. ALL HOLDOWNS IS TBE INSTALLED TO SYP STUDS. ING LEGEND ROOF TRUSSES PER MANF. @ MAX 24" O.C. RT. = TRUSS DESIGN TO HAVE NO INTERMEDIATE BEARING U.N.O. G.T. = GIRDER TRUSS PER MANF.
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FA 12' BL 16. TH SH ED WI SE I1. AL ST EN EST I2. I1. AL ST EN EST I2. I1. AL ST EN EST I2. I1. AL ST EN EST I2. I1. AL ST EN EST I2. I1. AL ST EN EST I2. I1. AL ST EN EST I2. I1. AL ST EN EST I2. I1. AL ST I1. AL ST II. AL ST ST ST ST ST ST ST ST ST ST	STENED TO FRAMING W/ 10D NAILS @ 6"O.C. EDGE AND O.C. ALONG INTERMEDIATE MEMBERS. PROVIDE 2X OCKING @ 48"O.C. IN 1ST 2 BAYS OF DIAPHRAGM. E ROOF SHEATHING WILL BE MINIMUM $\frac{7}{16}$ " STRUCTURAL EATHING ATTACHED W/ 8D NAILS 6" O.C. AT ALL PANEL GES AND 6" O.C. AT ALL OTHER SUPPORTING EMBERS. THE ROOF SHEATHING WILL BE ATTACHED TH 8D NAILS @ 4" O.C. AT THE GABLE END FRAMING. E FRAMING DETAILS FOR BLOCKING REQUIREMENTS. L STRUCTURAL RIDGE BEAMS MUST BE TIED TO THEIR SPECTIVE STUD SUPPORTS WITH (2) SIMPSON MSTA24 RAP TIES WITH A MINIMUM 9-10D NAILS AT EACH STRAP D. THE SUBJECT BEAM STUD SUPPORTS MUST ALSO TIED TO THE FLOOR SYSTEM USING IDENTICAL RAPPING PROCEDURES. L ROOF GIRDER TRUSSES TO BE TIED TO THE WALL ING (1) SIMPSON VGT GIRDER TIE DOWNS w/ HDU4'S OR TS22 STRAPS UNLESS NOTED OTHERWISE ON THE AN OR AS RECOMMENDED BY TRUSS MANUFACTURER. L TIES/STRAPS/HOLDOWNS REFERENCED ON PLANS E SIMPSON PRODUCTS. ALL TIES/STRAPS/HOLDOWNS JST BE INSTALLED AT THE PLAN INDICATED LOCATIONS R MANUFACTURER SPECIFICATIONS. ALL HOLDOWNS DE INSTALLED TO SYP STUDS. ING LEGEND ROOF TRUSSES PER MANF. @ MAX 24" O.C. R.T. = TRUSS DESIGN TO HAVE NO INTERMEDIATE BEARING U.N.O. G.T. = GIRDER TRUSS PER MANF.
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E E F R.f B.R.O E E E H B.W X X X X X X X X X X X X X X X X X X X	G.T. = GIRDER TRUSS PER MANF.
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F R.F B.R.O I E.C E H B.V W W W W W W W W W W W W W W W W W W W	D.R. = DOUBLE RAFTER
R.F B.R.O I E.C I I I I I I I I I I I I I I I I I I I	T.R. = TRIPLE RAFTER R.B. = RAFTER BRACE
E.C E E H B.V X X X X X X X X X X X X X X X X X X X	R.B. = RAFTER BRACE F.V. = RAFTERS FORM VAULT
E.C E E H B.V X	.W. = BRACE RAFTERS ON WALL
E H B.V X	D.J. = DOUBLE JOIST
E H B.V X X X X X X X X X X X X X X X X X X X	D.R. = ENGINEER OF RECORD E.E. = EACH END
H B.V X X X X X X X X X X X X X X X X X X X	E.S. = EACH SIDE
B.₩ ✓≪ ШШ *	.W. = EACH WAY
*	DR = HEADER , BEARING WALL ABOVE. PROVIDE BLOCKING b/n
*	/.A. = JOISTS/TRUSSES
*	= ROOF BRACE POINT AND BRACE TO POINT
*	 = AREA TO BE OVERFRAMED = INTERIOR BEARING WALL
·	PROVIDE 6"X4" X_{16}^{5} " STEEL ANGLE ATTACHED TO
	 HEADER/BEAM/FRAMING w/ (2)ROWS ¹/₂"X4" LAGS @ 16"O.C. FOR BRICK SUPPORT
**	SCREWS @ 16" O.C.
***	SCREWS @ 16" O.C. ON E.S. OF BEAM
***	SCREWS @ 16" O.C. ON E.S. OF BEAM
(#)	= NUMBER OF STUDS. STUDS TO BE SAME SIZE AS ASSOCIATED WALL FRAMING STUDS U.N.O. NUMBER OF JACK STUDS. STUDS TO BE SAME
	#J = SIZE AS ASSOCIATED WALL FRAMING STUDS U.N.O. SEE KING STUD CHART FOR REQUIRED KINGS.
1 2	DIRECTION OF JOIST/TRUSS SPAN.
3	= 2X6 (SYP#2) @ 16" O.C.
(4) (4)	= 2X6 (SYP#2) @ 16" O.C.
5	 = 2X6 (SYP#2) @ 16" O.C. = 2X8 (SYP#2) @ 16" O.C. = 2X10 (SYP#2) @ 16" O.C.
	 = 2X6 (SYP#2) @ 16" O.C. = 2X8 (SYP#2) @ 16" O.C. = 2X10 (SYP#2) @ 16" O.C.





	; L	EGEND
R.T.	=	ROOF TRUSSES PER MANF. @ MAX 24" O.C. TRUSS DESIGN TO HAVE NO INTERMEDIATE BEARING U.N.O.
G.T.	=	GIRDER TRUSS PER MANF.
B.B.	=	BEAM BELOW
D.R.	=	DOUBLE RAFTER
T.R.	=	TRIPLE RAFTER
R.B.	=	RAFTER BRACE
R.F.V.	=	RAFTERS FORM VAULT
.R.O.W.	=	BRACE RAFTERS ON WALL
D.J.	=	DOUBLE JOIST
E.O.R.	=	ENGINEER OF RECORD
E.E.	=	EACH END
E.S.	=	EACH SIDE
E.W.	=	EACH WAY
		HEADER
B.W.A.	=	BEARING WALL ABOVE. PROVIDE BLOCKING b/n JOISTS/TRUSSES
X	=	ROOF BRACE POINT AND BRACE TO POINT
	=	AREA TO BE OVERFRAMED
	=	INTERIOR BEARING WALL
*	=	PROVIDE 6"X4"X $\frac{5}{16}$ " STEEL ANGLE ATTACHED TO HEADER/BEAM/FRAMING w/ (2)ROWS $\frac{1}{2}$ "X4" LAGS @ 16"O.C. FOR BRICK SUPPORT
**	=	ATTACH LVL PLY'S w/ (2)ROWS ¹ / ₄ "X3 ¹ / ₂ "SDS SCREWS @ 16" O.C.
<**	=	ATTACH LVL PLY'S w/ (2)ROWS ¹ / ₄ "X3 ¹ "SDS SCREWS @ 16" O.C. ON E.S. OF BEAM

FRAMING NOTE: ALL EXTERIOR WALLS THIS LEVEL TO BE MIN 2X4 @ 16" O.C. U.N.O. (SEE EXTERIOR STUD WALL REQUIREMENTS CHART FOR ADDITIONAL REQUIREMENTS)

FRAMING NOTE: ALL EXTERIOR WALL HEADERS THIS LEVEL TO BE MIN 2-2X8 (SYP#2) (U.N.O) w/ (1)JACK @ EACH END (U.N.O.). SEE KING STUD CHART FOR COUNTS PER OPENING SIZE (U.N.O ON PLANS)

FRAMING NOTE: ALL INTERIOR LOAD BEARING WALL HEADERS THIS LEVEL TO BE 2-2X8 (SYP#2) w/ (1)JACK @ EACH END (U.N.O.)

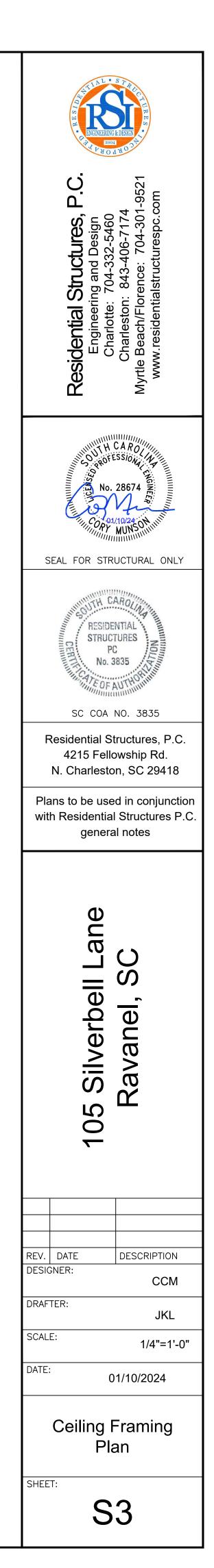
TYPICAL HANGERS MEMBER HANGER

2X8	LUS28
2X10	LUS210
2X12	LUS210
(2) 2X8	HUS28-2
(2) 2X10	HUS210-2
(2) 2X12	HUS212-2
(3) 2X8	LUS28-3
(3) 2X10	LUS210-3
(3) 2X12	LUS210-3
(2) 9 ¹ / ₄ " / (2) 11 ⁷ / ₈ " LVL	HGUS410
(2) 14" / (2) 16" / (2) 18" LVL	HGUS414
(3) 9 ¹ / ₄ " LVL	HGUS5.50/10
(3) 11 ⁷ / ₈ " LVL	HGUS5.50/12
(3) 14" / (3) 16" / (3) 18" LVL	HGUS5.50/14
(4) 9 ¹ / ₄ " LVL	HGUS7.25/10
(4) 11 ⁷ / ₈ " LVL	HGUS7.25/12
(4) 14" / (4) 16" / (4) 18" LVL	HGUS7.25/14

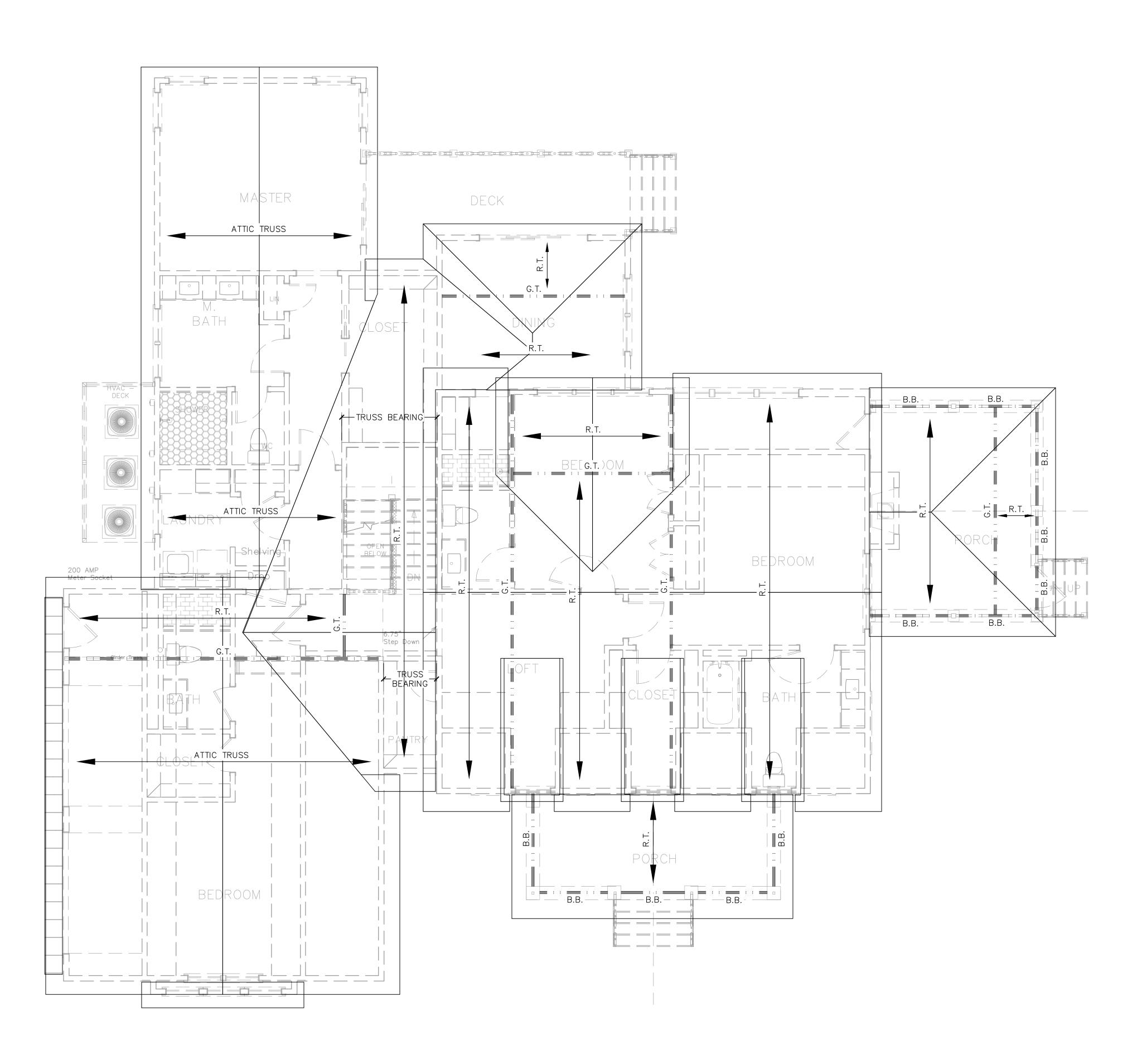
EXTERIOR WALL STUD REQUIREMENTS

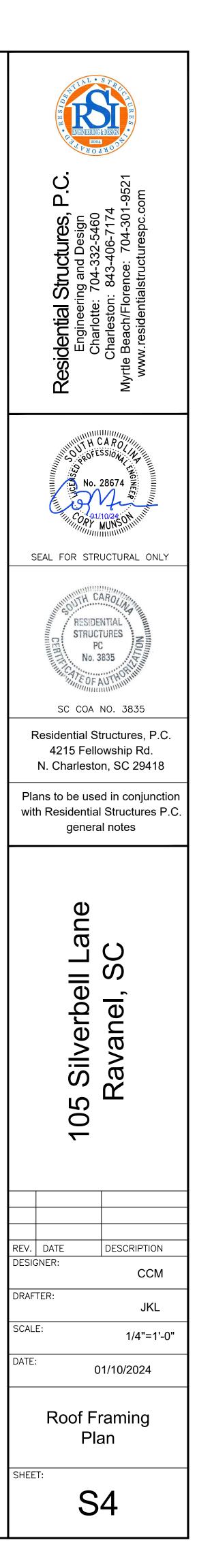
EXT. STUD HEIGHT (h) NOTE HEIGHT IS FOR STUDS ONLY AND DOES NOT INCLUDE TOP PLATE	MIN. STUD SIZE AND SPACING U.N.O. IN FRAMING NOTES OR ON FRAMING PLANS	
h ≤ 10'-0"	SEE FRAMING NOTES	
10'-0" < h ≤ 13'-0"	2X6 @ 16" O.C	
13'-0" < h ≤ 16'-0"	2X6 @ 12" O.C.	
16'-0" < h ≤ 20'-0"	2-2X6 @ 16" O.C.	
h > 20'-0"	CONSULT ENGINEER	
EXTERIOR WALL		
KING STUD CHART		
OPENING WIDTH (W)	# OF KINGS (U.N.O. ON PLANS)	
0' < W <u><</u> 3'	1 EACH END	

0' < W <u><</u> 3'	1 EACH END
3' < W <u><</u> 6'	2 EACH END
6' < W <u><</u> 9'	3 EACH END
9' < W <u><</u> 12'	4 EACH END
12' < W <u><</u> 15'	5 EACH END
15' < W <u><</u> 18'	6 EACH END
18' < W <u><</u> 21'	7 EACH END



FRAMING NOTES		
ALL RAFTERS TO BE 2X8's (SYP #2 ALL RIDGES AND HIPS		
2. ALL RIDGES AND HIPS NON-STRUCTURAL U.N.O.	ARE CONSIDERED	
3. ALL RAFTERS FRAMING INTO NO		
AND HIPS MUST BE CONNECTED		
4. ALL RIDGES, HIPS AND VALLEY		
LUMBER (SYP#2) MINIMUM 1		
ASSOCIATED RAFTERS U.N.O.		
5. ALL RAFTERS/TRUSSES TO BE TH		
WALL PLATES WITH (2) SIMPSON		
OR AS NOTED ON PLANS) NAILE SPECIFICATIONS.	D PER MANUFACTURER	
6. AT CLIP LINES, CEILING JOIST	S TO BE NAILED TO	
RAFTERS w/ (5)16d NAILS U.N.O.		
7. INSTALL SIMPSON CS16 STRAP TI		
EXTERIOR HEADERS FOR L PROVIDE (1) STRAP @ EACH END		
OF OPENING. PROVIDE EXTRA		
FOR CONNECTIONS.		
8. INSTALL SIMPSON CS16 STRAP		
WALLS INLINE WITH ALL HEADER		
ABOVE. STRAPS TO BE CEN SYSTEM	TERED AT 2nd FLOOR	
9. INSTALL AN EXTRA JOIST U	INDER ALL PARALLEI	
PARTITION WALLS. NOTE, NOT AL		
FOR CLARITY		
10. TRANSFER ALL POINT LOADS F		
FLOOR SYSTEMS w/ AN EQUA MATERIAL	AL AMOUNT OF STUD	
11. ALL 2-PLY LVL'S TO HAVE PLY'S	ATTACHED W/ (3) ROWS	
10d NAILS @ 12"O.C. (U.N.O.)		
12. ALL 3-PLY LVL'S TO HAVE PLY'S	ATTACHED W/ (3) ROWS	
10d NAILS @ 12"O.C. EACH SIDE (L		
13. ALL 4-PLY LVL'S TO HAVE PLY'S		
¹ / ₄ "X6" SDS SCREWS @ 24"O.C. EAC 14. ALL HOLDOWNS REFERENCED AF		
14. ALL HOLDOWNS REFERENCED AN U.N.O.		
15. FLOOR DIAPHRAGM WILL BE $\frac{3}{4}$ " T&	G PLYWOOD SHFATHING	
FASTENED TO FRAMING W/ 10D N/		
12"O.C. ALONG INTERMEDIATE N	IEMBERS. PROVIDE 2X	
BLOCKING @ 48"O.C. IN 1ST 2 BAY		
16. THE ROOF SHEATHING WILL BE M		
SHEATHING ATTACHED W/ 8D NAI		
EDGES AND 6" O.C. AT ALL MEMBERS. THE ROOF SHEATHI		
WITH 8D NAILS @ 4" O.C. AT THE		
SEE FRAMING DETAILS FOR BLOC	KING REQUIREMENTS.	
17. ALL STRUCTURAL RIDGE BEAMS		
RESPECTIVE STUD SUPPORTS WI		
STRAP TIES WITH A MINIMUM 9-10 END. THE SUBJECT BEAM STUD		
BE TIED TO THE FLOOR SYS		
STRAPPING PROCEDURES.		
18. ALL ROOF GIRDER TRUSSES TO		
USING (1) SIMPSON VGT GIRDER 1		
(2) TS22 STRAPS UNLESS NOTE PLAN OR AS RECOMMENDED BY T		
19. ALL TIES/STRAPS/HOLDOWNS R		
ARE SIMPSON PRODUCTS. ALL T		
MUST BE INSTALLED AT THE PLAN		
PER MANUFACTURER SPECIFICA	TIONS. ALL HOLDOWNS	
TO BE INSTALLED TO SYP STUDS.		
FRAMING LEGEND		
ROOF TRUSSES PER MA		
R.T. = TRUSS DESIGN TO HAV		
BEARING U.N.O.		
G.T. = GIRDER TRUSS PER MA	NF.	
B.B. = BEAM BELOW		
-		
D.R. = DOUBLE RAFTER		
T.R. = TRIPLE RAFTER		
R.B. = RAFTER BRACE		
R.F.V. = RAFTERS FORM VAULT		
B.R.O.W. = BRACE RAFTERS ON W		
D.J. = DOUBLE JOIST		
E.O.R. = ENGINEER OF RECORD		
E.E. = EACH END		
E.S. = EACH SIDE		
E.W. = EACH WAY		
HDR = HEADER		
B.W.A. = BEARING WALL ABOVE. JOISTS/TRUSSES		
\Rightarrow = ROOF BRACE POINT AN		
= AREA TO BE OVERFRAM		
= INTERIOR BEARING WAI	L	
₽R0\/IDF 6"X4"X ⁵ " ९т=	EL ANGLE ATTACHED TO	
* = HEADER/BEAM/FRAMING		
@ 16"O.C. FOR BRICK S		
-		
** = ATTACH LVL PLY'S w/ (2 SCREWS @ 16" O.C.	JKUWS 7 X32 SDS	
_	A 4	
*** = ATTACH LVL PLY'S w/ (2		
SCREWS @ 16" O.C. ON	E.S. OF BEAM	
**** _ ATTACH LVL PLY'S w/ (2)ROWS <u>1</u> "X6"SDS	
☆☆☆☆ = SCREWS @ 16" O.C. ON		
NUMBER OF STUDS. ST	UDS TO BE SAME SIZE	
$\langle \# \rangle$ = AS ASSOCIATED WALL I		
" , SIZE AS ASSOCIATED W	S. STUDS TO BE SAME ALL FRAMING STUDS	
#J = SIZE AS ASSOCIATED W U.N.O. SEE KING STUD (ALL FRAMING STUDS	
# -	ALL FRAMING STUDS	
#J = U.N.O. SEE KING STUD (ALL FRAMING STUDS CHART FOR REQUIRED	
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#J = U.N.O. SEE KING STUD (KINGS.	YALL FRAMING STUDS CHART FOR REQUIRED RUSS SPAN.	
 #J = U.N.O. SEE KING STUD (KINGS.) ■ DIRECTION OF JOIST/TF ① = 2X6 (SYP#2) @ 16" O.C. ② = 2X8 (SYP#2) @ 16" O.C. ③ = 2X10 (SYP#2) @ 16" O.C. 	ALL FRAMING STUDS CHART FOR REQUIRED RUSS SPAN.	
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SHEAR WALL NOTES

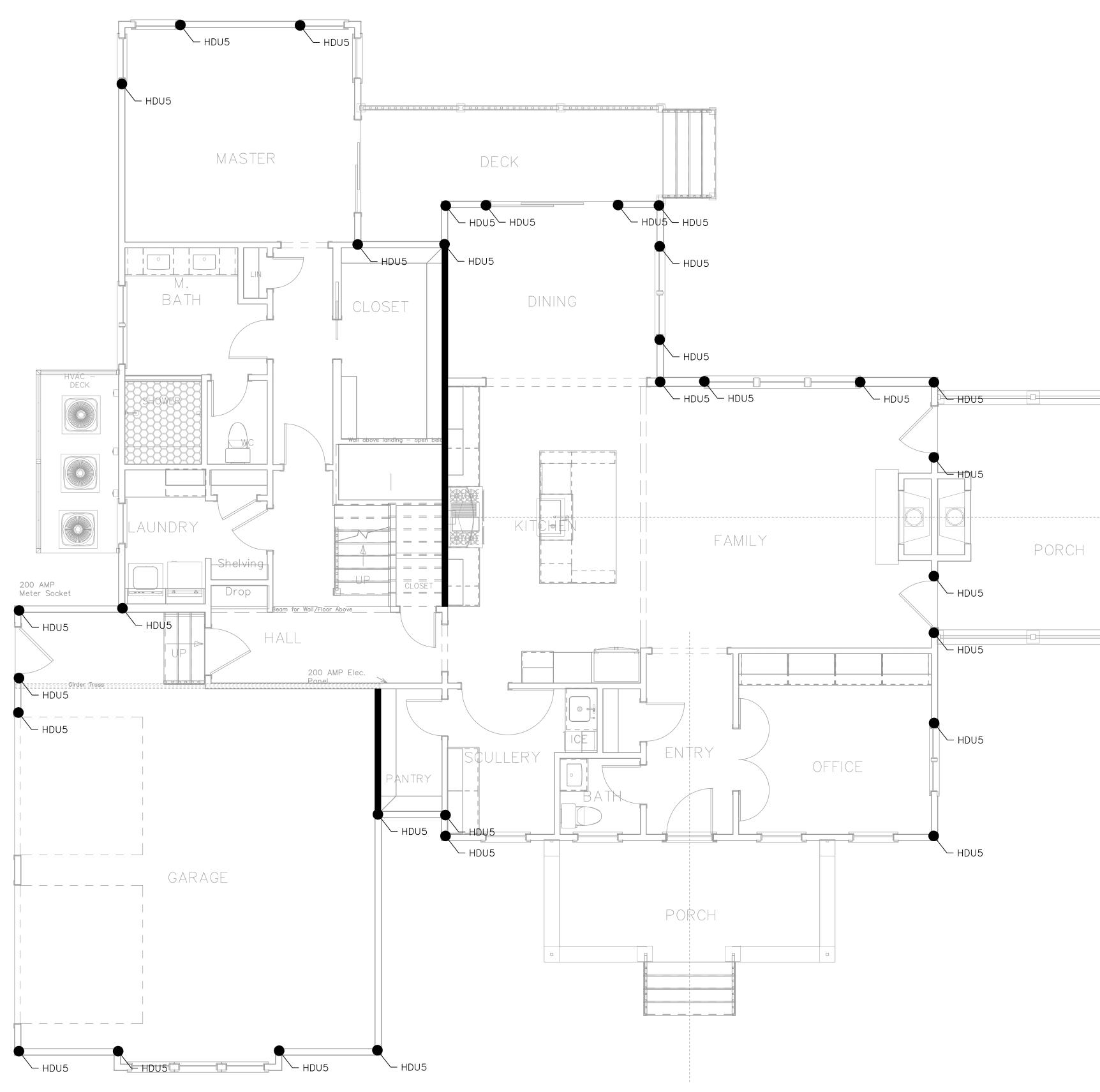
- ALL EXTERIOR WALLS MUST BE CONTINUOUSLY SHEATHED USING 7/16" STRUCTURAL SHEATHING ON THE OUTSIDE, WITH PANELS SECURED DIRECTLY TO THE FRAMING (SEE SHEARWALL LEGEND BELOW AND SHEATHING DETAILS FOR NAILING PATTERNS). BLOCKING MUST BE PROVIDED AT ALL SHEATHING PANEL JOINTS. THE INTERIOR SIDE OF ALL EXTERIOR SHEAR WALL MUST BE SHEATHED AS DEFINED IN NOTE 2.
- THE INTERIOR SIDE OF ALL EXTERIOR SHEAR WALLS MUST BE CONSTRUCTED USING ½" GYPSUM SHEATHING ON EACH SIDE SECURED WITH NO. 6 DRYWALL SCREWS AT 4" O.C. ON ALL PANEL EDGES AND 12" O.C. IN THE FIELD WITH A 1 ¼" MINIMUM PENETRATION.
- 3. ALL INTERIOR SHEAR WALLS MUST BE SHEATHED ON ONE SIDE WITH 7/16" STRUCTURAL SHEATHING NAILED PER NOTE A ABOVE WITH SHEETROCK ON MIN. 1 SIDE OF THE WALL WITH ATTACHMENT PER NOTE B ABOVE. (SEE SHEARWALL LEGEND BELOW AND SHEATHING DETAILS FOR NAILING PATTERNS) (NOTE: THIS DOES NOT APPLY TO WALLS NOTED AS METHOD GB. SEE DETAILS FOR METHOD GB REQUIREMENTS)
- 4. ALL SHEAR WALLS MUST BE PROPERLY ATTACHED TO UPPER AND LOWER ROOF/FLOOR DIAPHRAGMS. SEE DETAILS FOR ATTACHMENTS.

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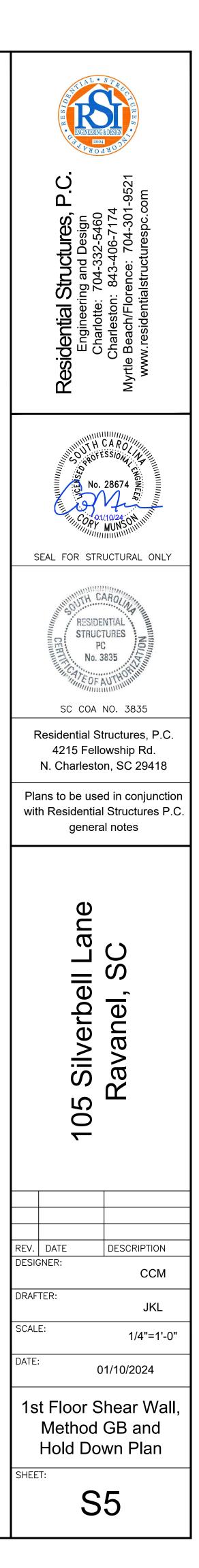
- DURING WIND EVENTS.2. ALL EXTERIOR WINDOWS AND DOORS SHALL BE RATED FOR THE DESIGN PRESSURE REFERENCED IN THE
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 3. ALL FENESTRATION SHALL BE TESTED BY AN APPROVED INDEPENDENT LABORATORY LISTED BY AN APPROVED ENTITY AND SHALL BE IN COMPLIANCE WITH THE REQUIREMENTS OF ASTM E1886 AND ASTM E1996 <u>OR</u> AAMA 506.
- 4. ALL EXTERIOR GLAZED OPENINGS SHALL BE PROTECTED FROM WINDBORNE DEBRIS. PROTECTION SHALL MEET THE REQUIREMENTS OF THE LARGE MISSILE TEST OF ASTM E1996 AND ASTM E1886. GARAGE DOOR GLAZED OPENING PROTECTION SHALL MEET THE REQUIREMENTS OF AN APPROVED IMPACT-RESISTING STANDARD <u>OR</u> ANSI/DASMA 115.
- 5. WINDBORNE DEBRIS PROTECTION MAY BE ACHIEVED THROUGH IMPACT RESISTANT GLASS RATED IN ACCORDANCE WITH STANDARDS NOTED ABOVE OR WOOD STRUCTURAL PANELS. WOOD STRUCTURAL PANELS MAY BE USED FOR OPENINGS 8-FEET OR LESS ONLY. GLAZED OPENINGS GREATER THAN 8-FEET MUST USE IMPACT RESISTANT GLASS OR OTHER PRE-MANUFACTURED SYSTEM IN ACCORDANCE WITH ABOVE REQUIREMENTS.
- 6. WINDBORNE DEBRIS PROTECTION UTILIZING WOOD STRUCTURAL PANELS SHALL UTILIZE PANELS NOT LESS THAN 7/16-INCHES THICK AND NOT SPANNING MORE THAN 8-FEET. THE ATTACHMENT METHOD SHALL UTILIZE A PRE-MANUFACTURED SCREW BASED SYSTEM TO BE PERMANENTLY ATTACHED TO THE BUILDING AND MUST BE RATED FOR THE FOR THE DESIGN PRESSURE REFERENCED ABOVE. ALL SCREWS/HARDWARE SHALL BE CORROSION RESISTANT AND SHALL BE INSTALLED PER MANUFACTURER SPECIFICATIONS. ADDITIONAL STUDS MAY BE ADDED AS NECESSARY TO ALLOW FOR SCREW/HARDWARE INSTALLATION TO BE IN ACCORDANCE W/ MANUFACTURER SPECIFICATIONS.
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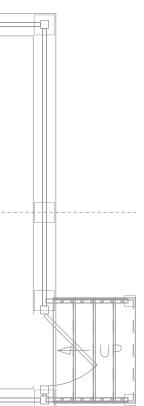
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NOTE: ALL EXTERIOR WALLS THIS LEVEL TO BE SHEATHED PER SW(3/12)





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