GENERAL NOTES:

OVER TRD PLAN

RESPONSIBILITY

I) THESE PLANS HAVE BEEN DESIGNED TO MEET THE REQUIREMENTS OF THE NCBC 2018 RESIDENTIAL CODE 2) THESE PLANS ARE DESIGNED TO BE USED BY A LICENSED GENERAL CONTRACTOR

3) DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS 4) ALL PM\$E PLANS ARE TO BE HANDLED BY THE GENERAL CONTRACTOR UNLESS NOTED OTHERWISE 5) ENGINEER'S INFORMATION AND NOTES TAKE PRECEDENCE

GENERAL CONTRACTOR:

I) PRIOR TO CONSTRUCTION, REVIEW ALL PLANS VERIFYING DIMENSIONS, LOCAL CODES, ENERGY TYPES AND SITE CONDITIONS 2) ANY DISCREPANCY IN THE PLANS IS TO BROUGHT TO THE ATTENTION OF TRD FOR CORRECTION PRIOR TO CONSTRUCTION. OTHERWISE IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR 3) INSURE ALL PHASES OF CONSTRUCTION COMPLY WITH BUILDING CODES IN THE AREA THE HOME IS TO BE BUILT 4) CONSULT WITH LOCAL ENGINEER FOR STRUCTURAL DESIGN 5) ONCE CONSTRUCTION BEGINS, CONTRACTOR ASSUMES ALL

TRIANGLE RESIDENTIAL DESIGNS:

I) THESE PLANS ARE THE COPYRIGHTED PROPERTY OF TRD. THEY ARE NOT TO BE REPRODUCED WHOLE OR IN PART, WITHOUT WRITTEN CONSENT FROM TRD.

2) THE LIABILITY OF TRD IN CONNECTION WITH THIS PLAN AND THE HOME BUILT THEREFROM IS LIMITED TO THE TOTAL FEES PAID BY THE PURCHASER OF THE PLAN.

3) TRD ASSUMES NO LIABILITY FOR ALTERATIONS TO THE PLANS, FIELD MODIFICATIONS OF THE PLANS OR STRUCTURAL COMPONENTS.

THEY ARE THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR

NON-EXCLUSIVE LICENSE:

THE PURCHASER OF THIS PLAN HAS BEEN GRANTED A NON-EXCLUSIVE, NON-TRANSFERABLE LICENSE TO USE THIS COPYRIGHTED PLAN TO BUILD ONE HOME. THE PLANS ARE NOT TO BE REPRODUCED, WHOLE OR IN PART, OR RESOLD, WITHOUT WRITTEN CONSENT FROM TRD. ANY BREACH OF THESE TERMS ENTITLE TRD TO PURSUE ALL REMEDIES BY LAW.

MEAN ROOF HEIGHT

16'-6" EAVE HT. + 26'-4" OVERALL HT. = 42'-10" TOTAL 42'-10" TOTAL/2 = 21'-5" MEAN ROOF HT.

NOTES:

* DISTANCES INDICATED ARE FROM FINISHED GRADE AND ASSUME A FLAT LOT WITH MINIMUM GRADE REQUIREMENTS.

* DESIGN PRESSURE = 35 PSF

DESIGN LOADS

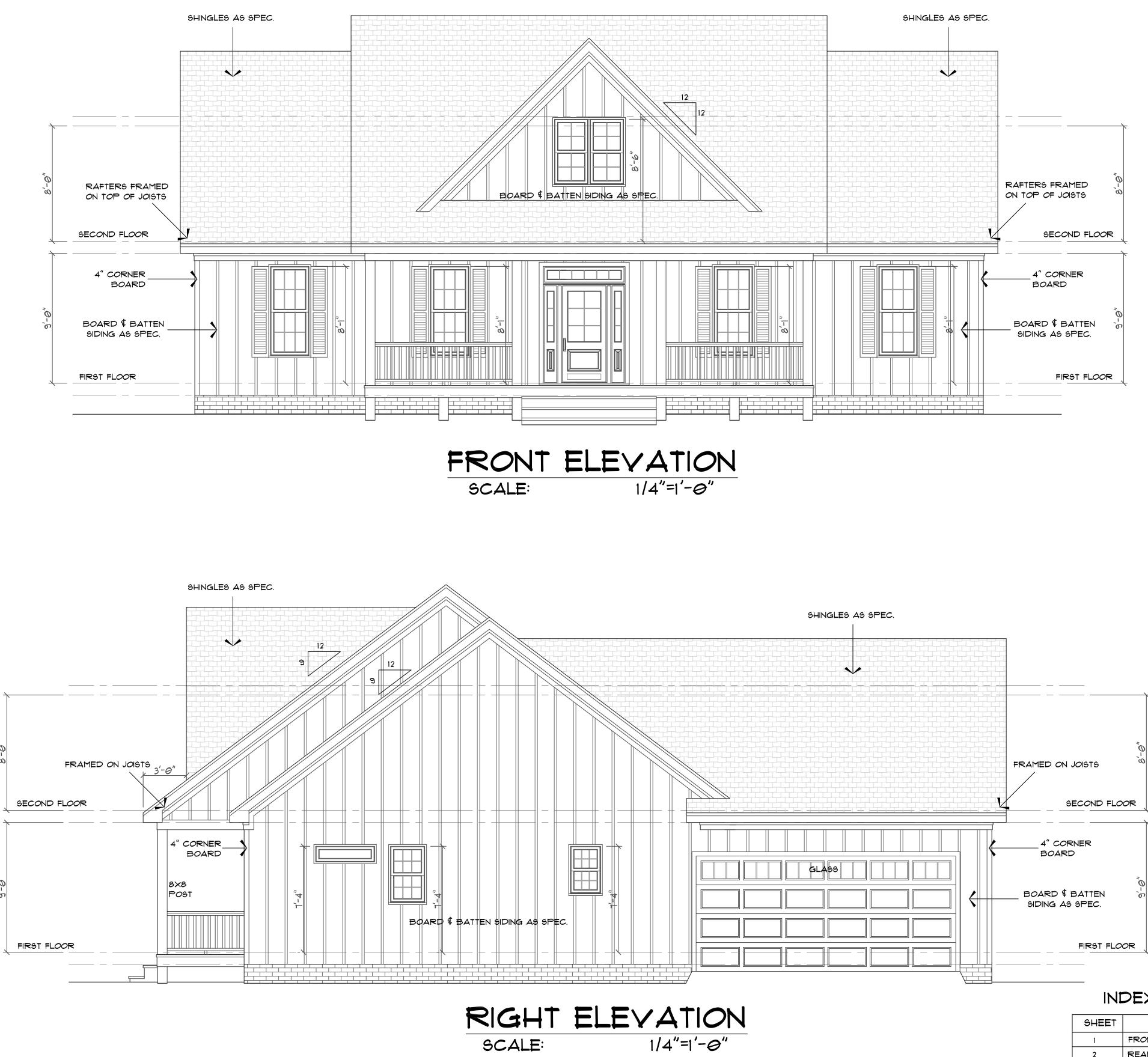
FLOOR LIVE LOAD (SLEEPING): 30 PSF FLOOR LIVE LOAD (ALL OTHERS): 40 PSF DECKS: 40PSF BALCONIES: 60PSF ATTIC DEAD LOAD (NO STOR.): 10 PSF ATTIC LIVE LOAD (STORAGE): 20 PSF ATTIC W/STAIRS (DEVELOPABLE) 40 PSF

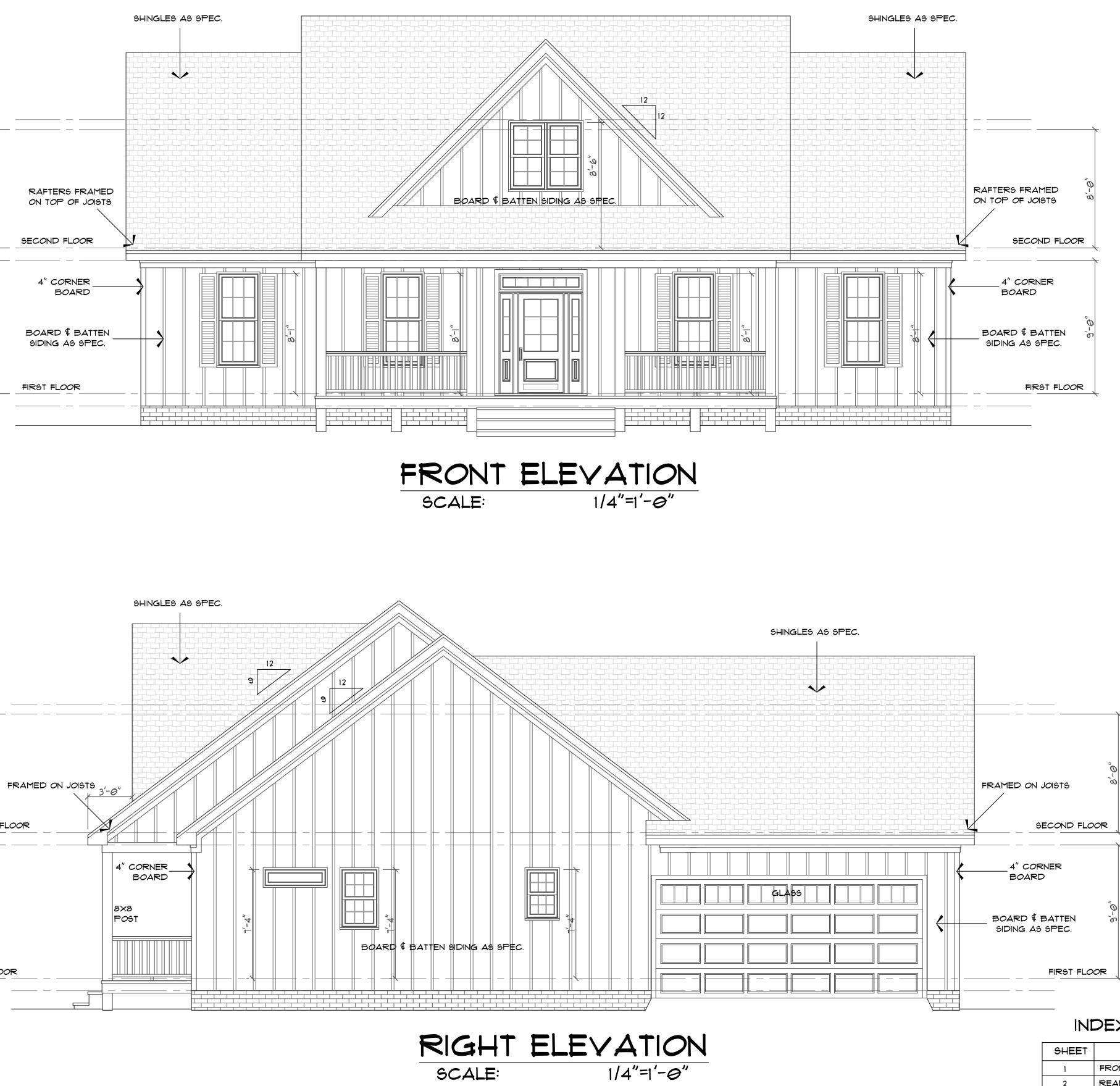
MIN. VALUES FOR ENERGY COMPLIANCE

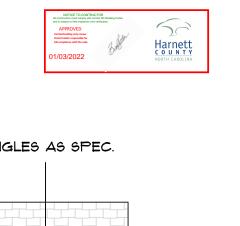
CEILINGS: R-38 WALLS: R-15 FLOORS: R-19 BASEMENT WALLS: R-1 CRAWL SPACE WALLS: R-8 SLAB PERIMETER @ 24" DEEP: R-4 MAX. GLAZING U-FACTOR = 0.35 ZONE 4

EXTERIOR MATERIALS

ROOF SHINGLES
METAL ROOF
HORIZONTAL SIDING
BOARD \$ BATTEN SIDING
VERTICAL SIDING
SHAKE SIDING
BRICK
STONE
STUCCO OR PARGING
SCREEN
BRICK ROWLOCK OR SOLDIER

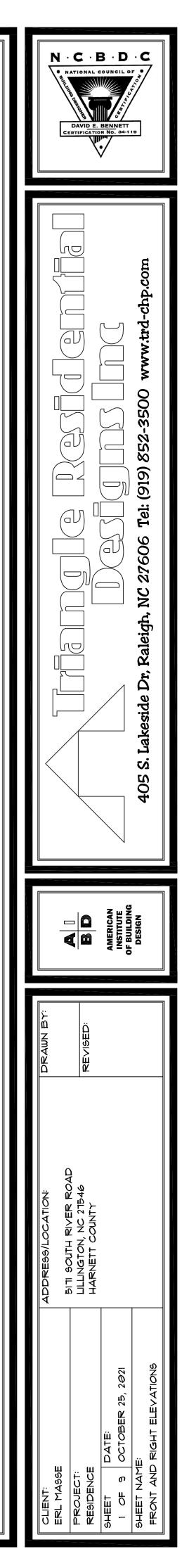


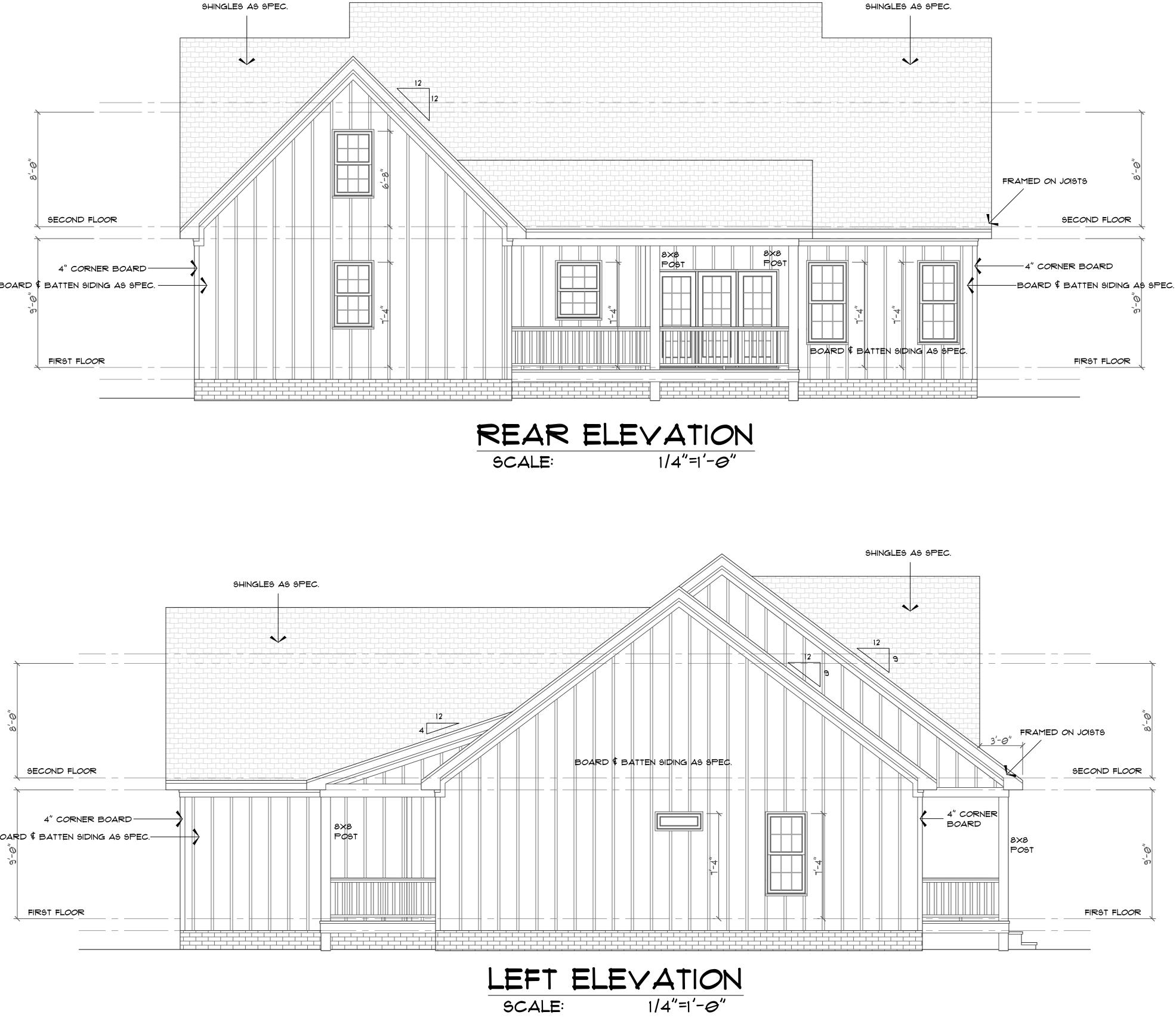


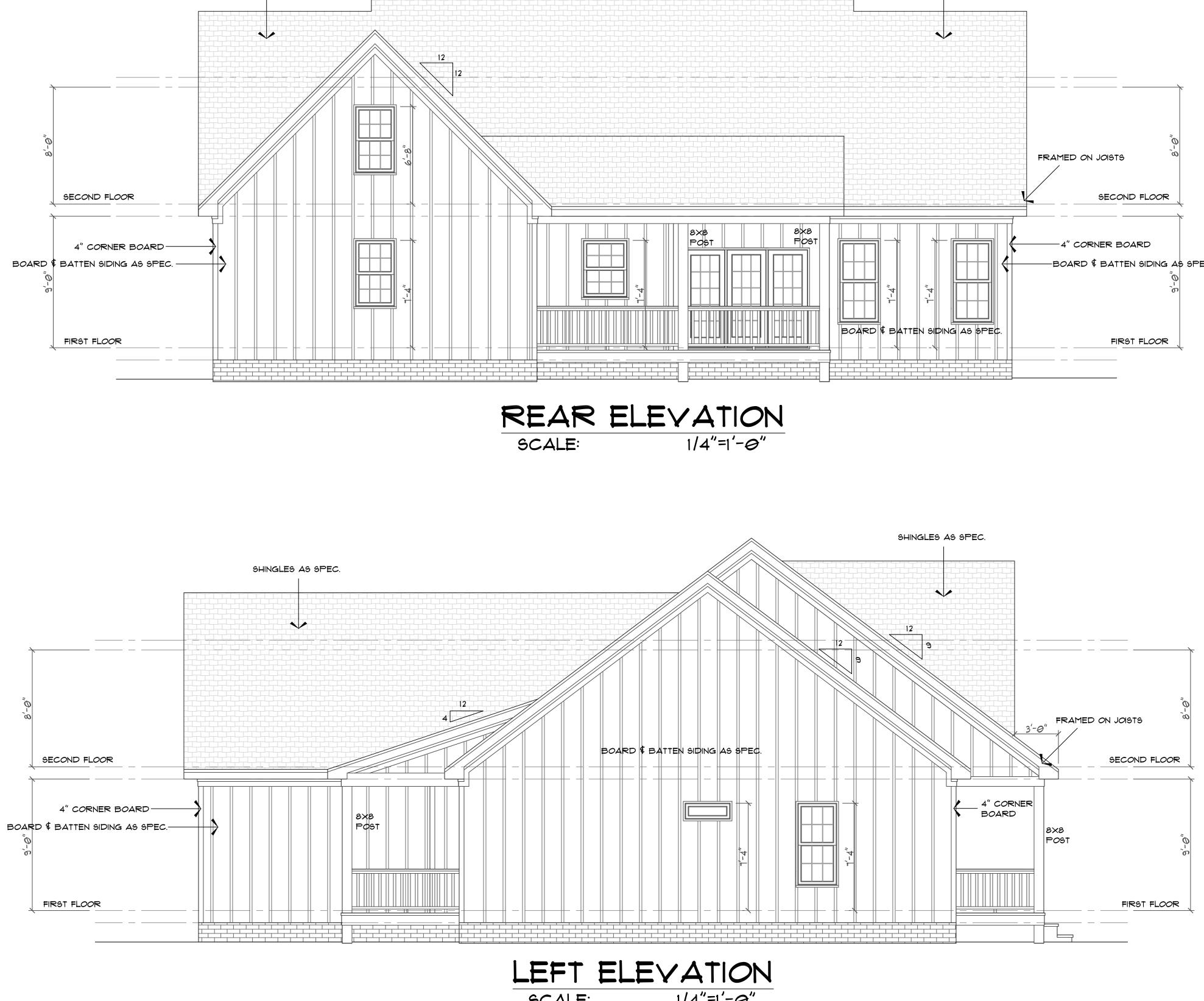


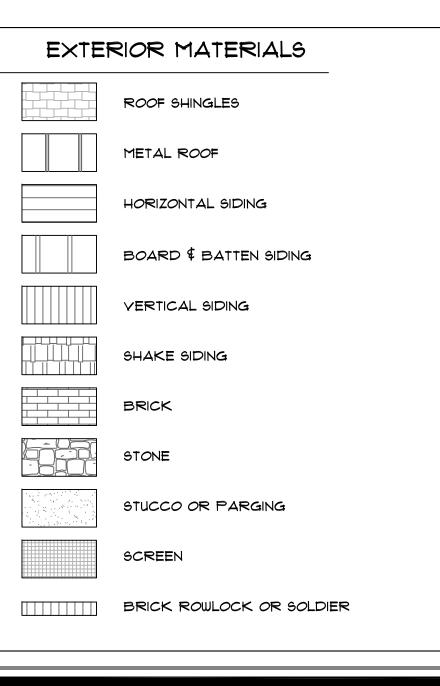
INDEX TO SHEETS

SHEET	NAME
1	FRONT & RIGHT SIDE ELEVATIONS
2	REAR \$ LEFT SIDE ELEVATIONS
3	FOUNDATION PLAN
4	FLOOR FRAMING PLAN
5	FIRST FLOOR PLAN
6	FIRST FLOOR STRUCTURAL PLAN
Ţ	SECOND FLOOR PLAN
8	SECOND FLOOR STRUCTURAL PLAN
9	ROOF PLAN
D1-2	DETAIL SHEETS

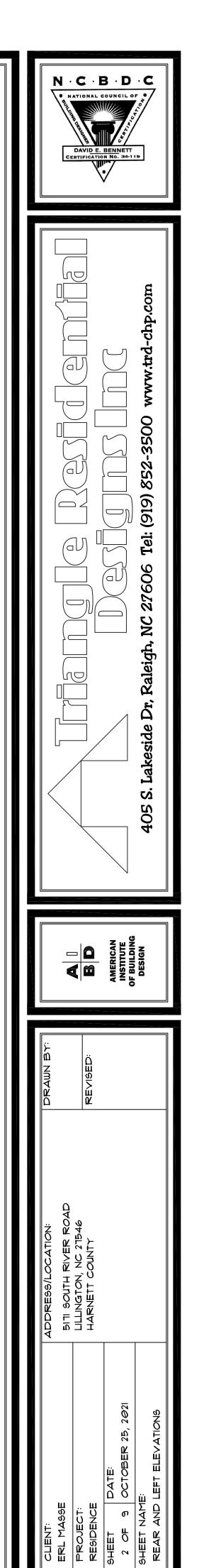


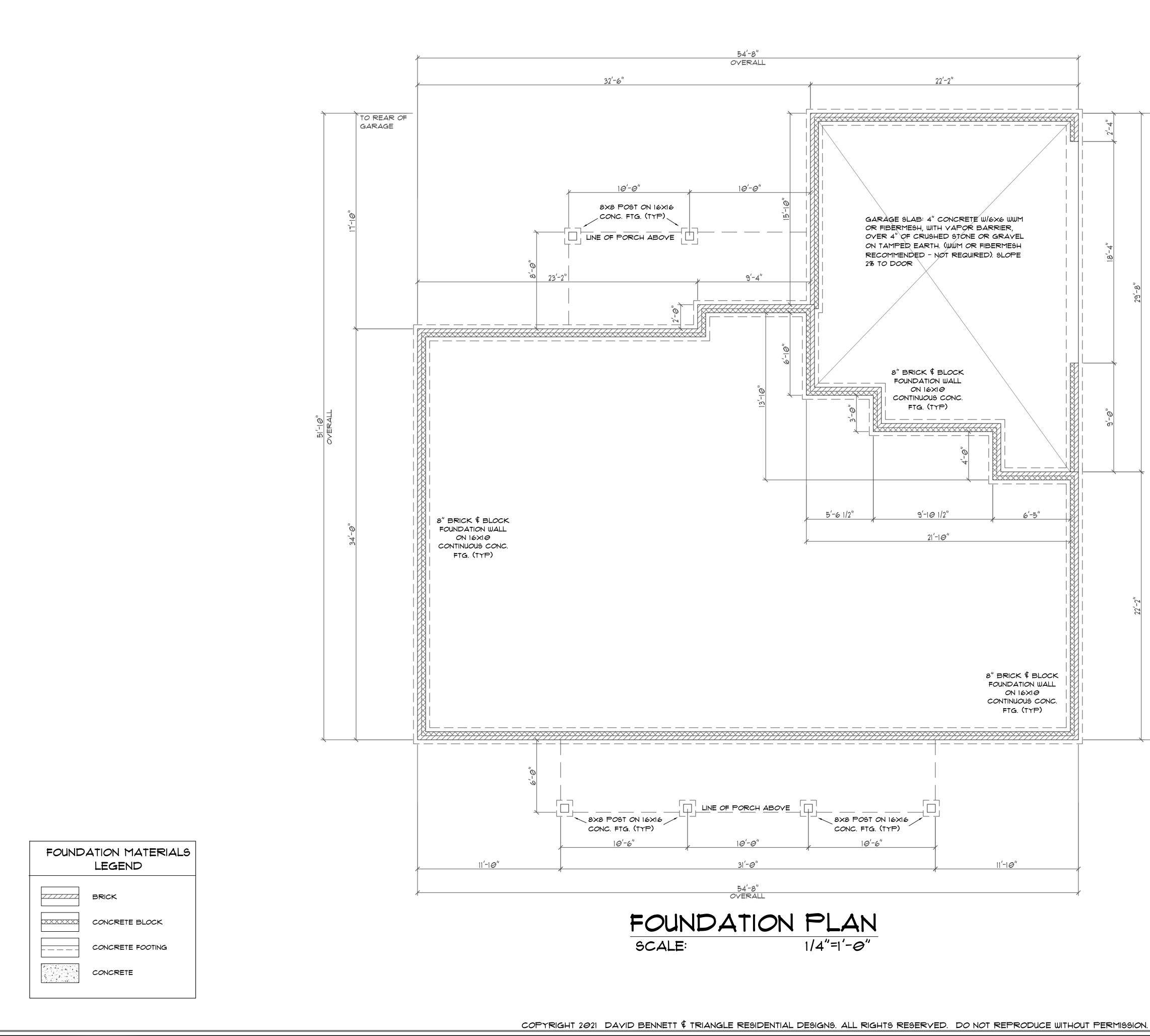


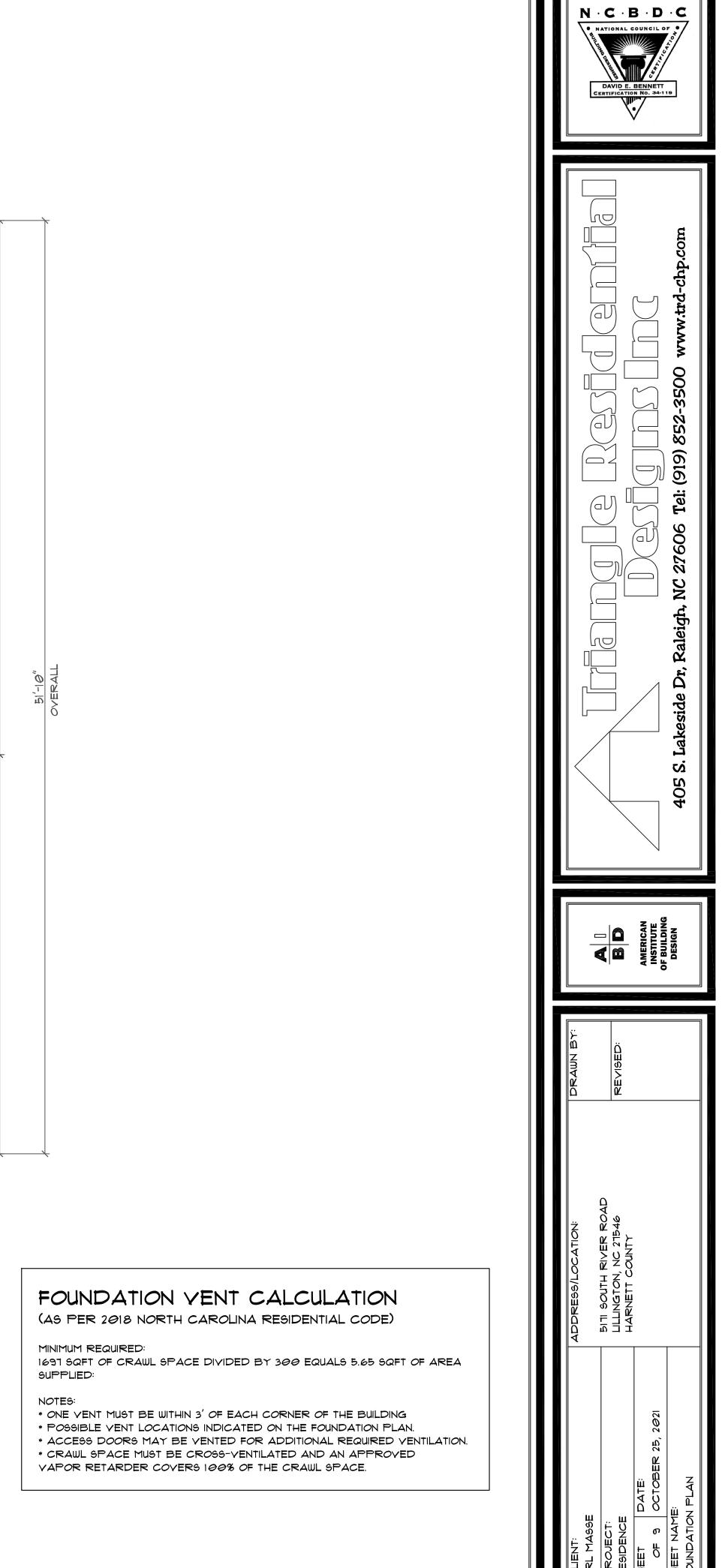












FOUNDATION VENT CALCULATION

(AS PER 2018 NORTH CAROLINA RESIDENTIAL CODE)

MINIMUM REQUIRED:

1697 SQFT OF CRAWL SPACE DIVIDED BY 300 EQUALS 5.65 SQFT OF AREA SUPPLIED:

NOTES:

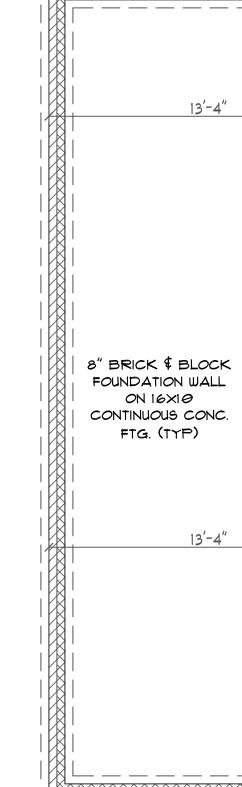
* ONE VENT MUST BE WITHIN 3' OF EACH CORNER OF THE BUILDING

* POSSIBLE VENT LOCATIONS INDICATED ON THE FOUNDATION PLAN. * ACCESS DOORS MAY BE VENTED FOR ADDITIONAL REQUIRED VENTILATION.

* CRAWL SPACE MUST BE CROSS-VENTILATED AND AN APPROVED

VAPOR RETARDER COVERS 100% OF THE CRAWL SPACE.

with 5/8" HDG bolts @ 20" on center and (3) 12d nails @ eight inches on center or (2) 5/16" ledgerlok (SDS) screws @ 16" on center



FOUNDATION MATERIALS LEGEND

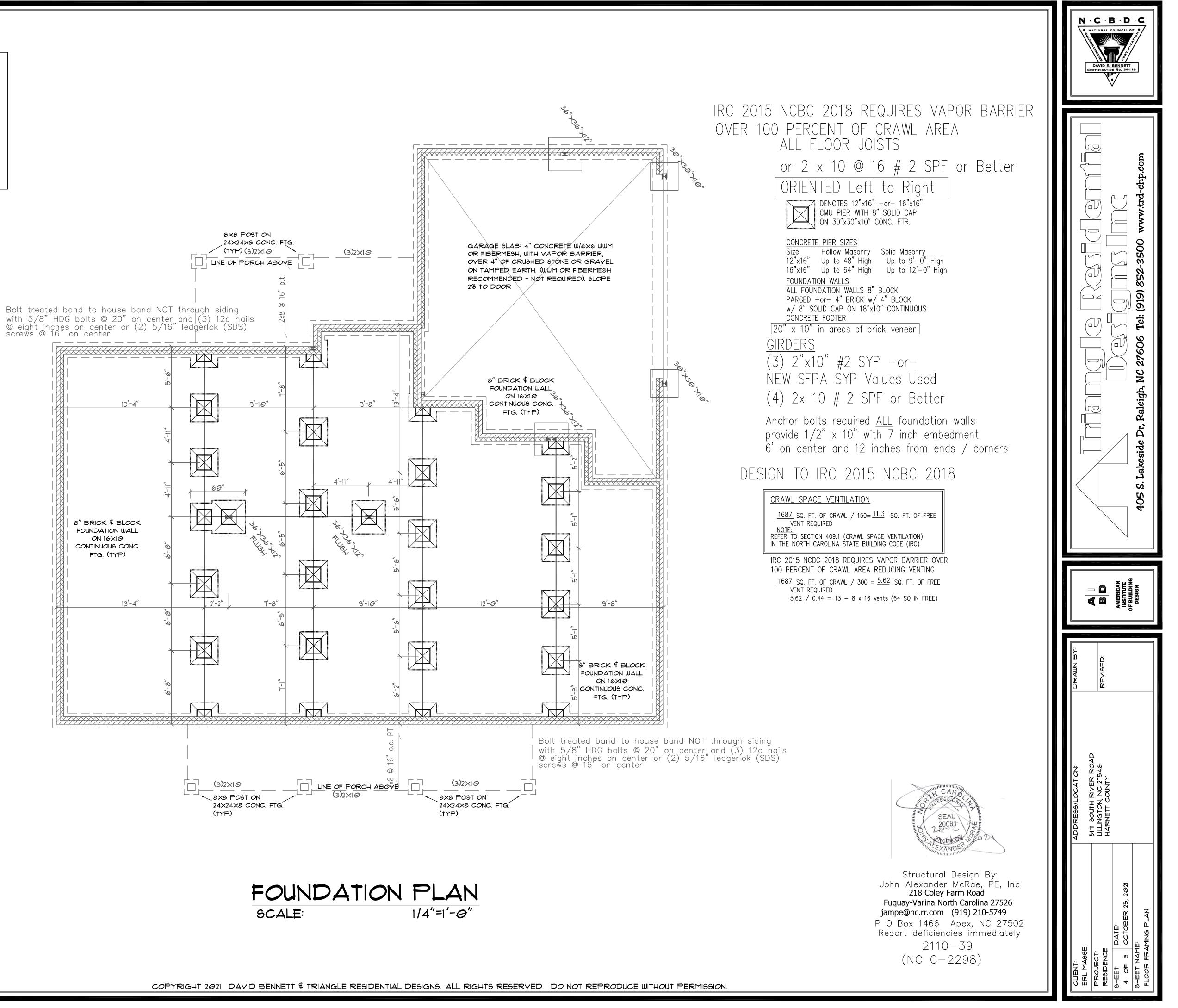
BRICK

CONCRETE BLOCK

CONCRETE FOOTING



CONCRETE



TO REAR OF GARAGE 2'-8 1/2" 3'-O"X5'-6" 5'-0" SLIDING DOORS 3'-0"XI'-0" SHOWER/ TRANSOM TUB Tub ۳**ـــــ 8**'-10" 5'-0" SLIDING DOORS <u>3'-0"×5'-6</u>" • 9'-0" CEILING ON THIS FLOOR UNLESS NOTED OTHERWISE • STAIRS ARE DESIGNED TO COVER A 120" MAX. RISE: 15 RISERS @ 7.86"+/- EACH OR 16 RISERS @ 7.3" +/- EACH

14 OR 15 TREADS @ 9" EACH (ROUGH CUT) (FIELD VERIFY ALL STAIRS DIMENSIONS)

NOTES:

(UNO)

- ALL ANGLES 45 UNLESS OTHERWISE NOTED
- ALL DOOR HEIGHTS 6'-8" UNLESS OTHERWISE NOTED
- ALL DOOR JAMBS ARE 4" UNLESS OTHERWISE NOTED • SEE CHAPTER 6 OF THE 2018 NC RESIDENTIAL BUILDING
- CODE FOR WALL CONSTRUCTION • GARAGE WALLS ADJACENT TO HEATED SPACE SHALL BE
- COVERED WITH FIRE RATED SHEETROCK PER CODE • ALL HABITABLE ROOMS SHALL MEET LIGHT, VENTILATION \$
- EGRESS CODES AS REQUIRED
- ALL WINDOW SIZES \$ DETAILS TO BE VERIFIED WITH CHOSEN MANUFACTURER
- PROVIDE SMOKE DETECTORS AS REQUIRED BY CODE







54'-8" OVERALL

32'-6"

7'-9"

12'-10"

BED 2

ד'−2″

8'-10"

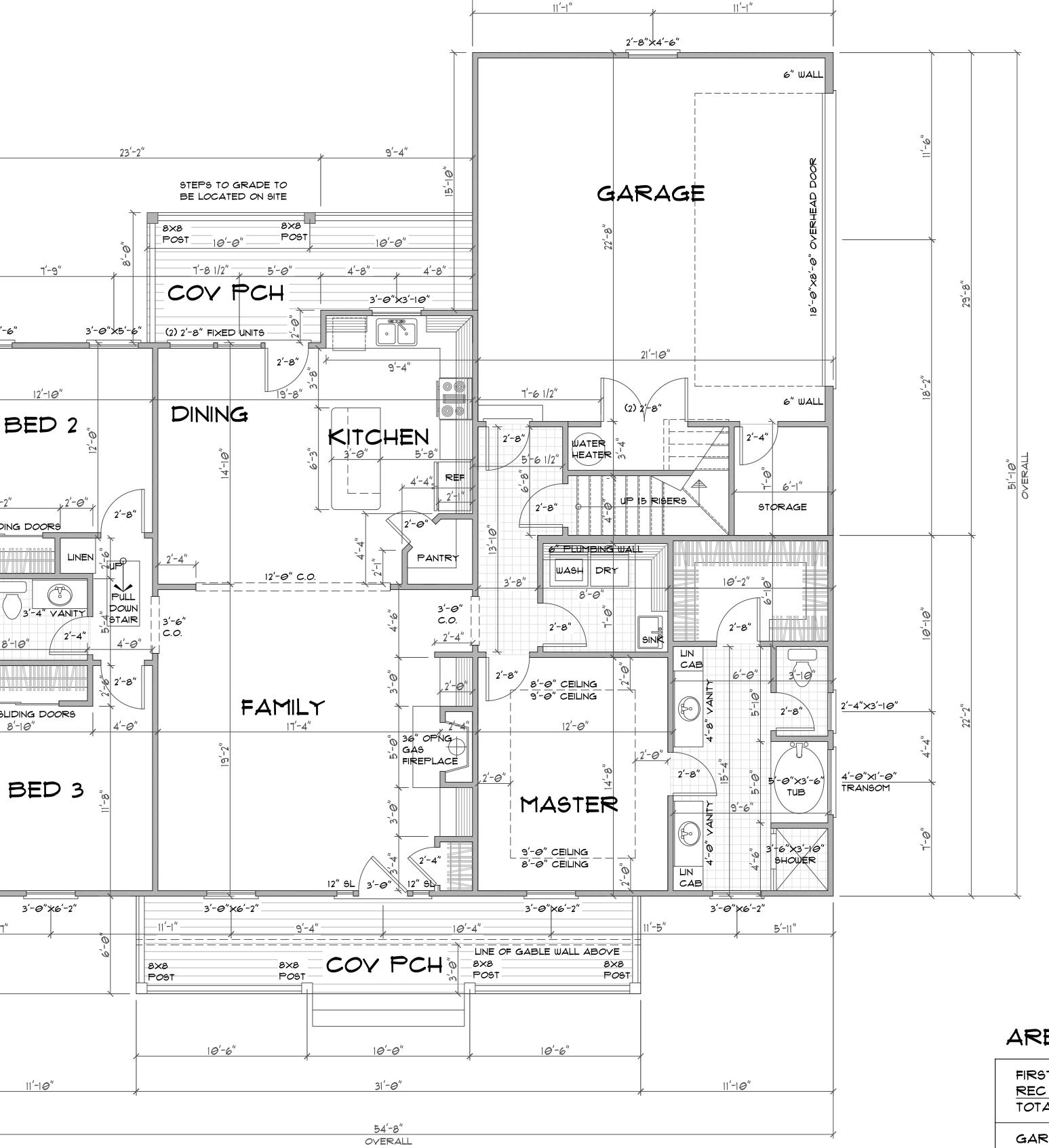
3'-O"*6'-2"

11'-10"

6'-7"



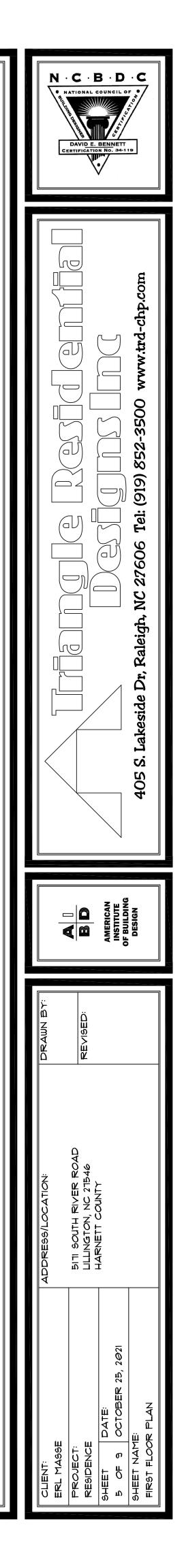


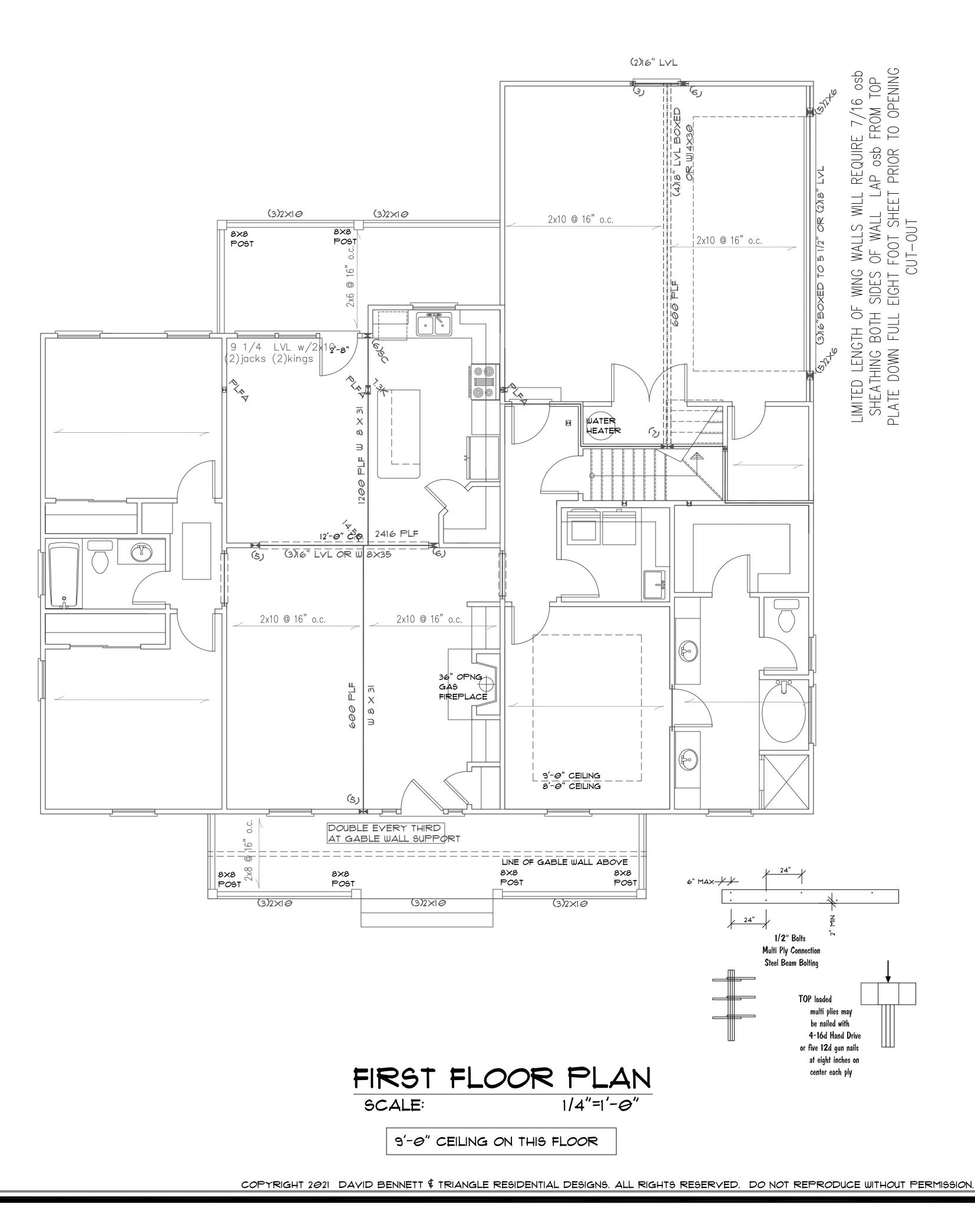


22'-2"

AREA CALCULATION

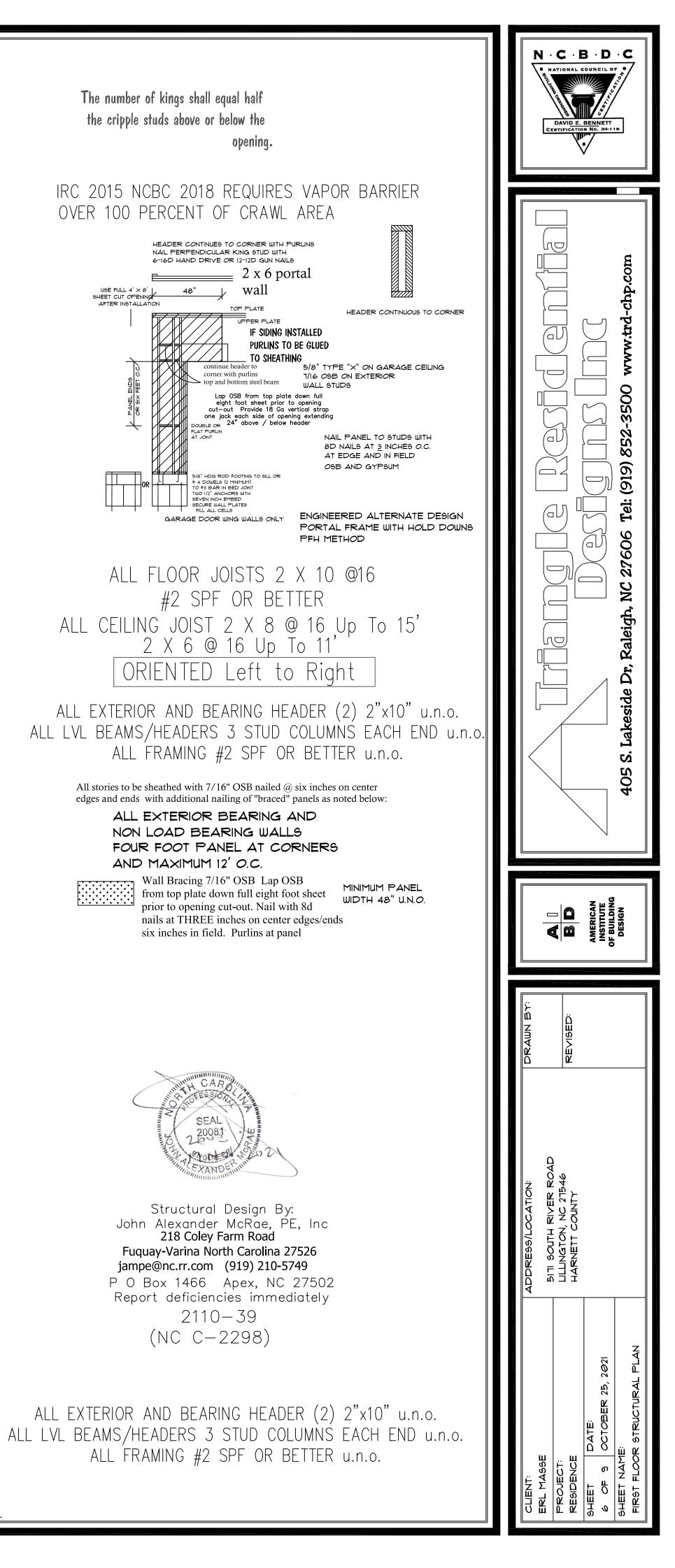
FIRST FLOOR:	1687 SQFT
<u>REC ROOM:</u>	374 SQFT
TOTAL LIVING:	2061 SQFT
GARAGE:	574 SQFT
FRONT PORCH:	186 SQFT
REAR PORCH:	160 SQFT
TOTAL NON-LIVING:	920 SQFT





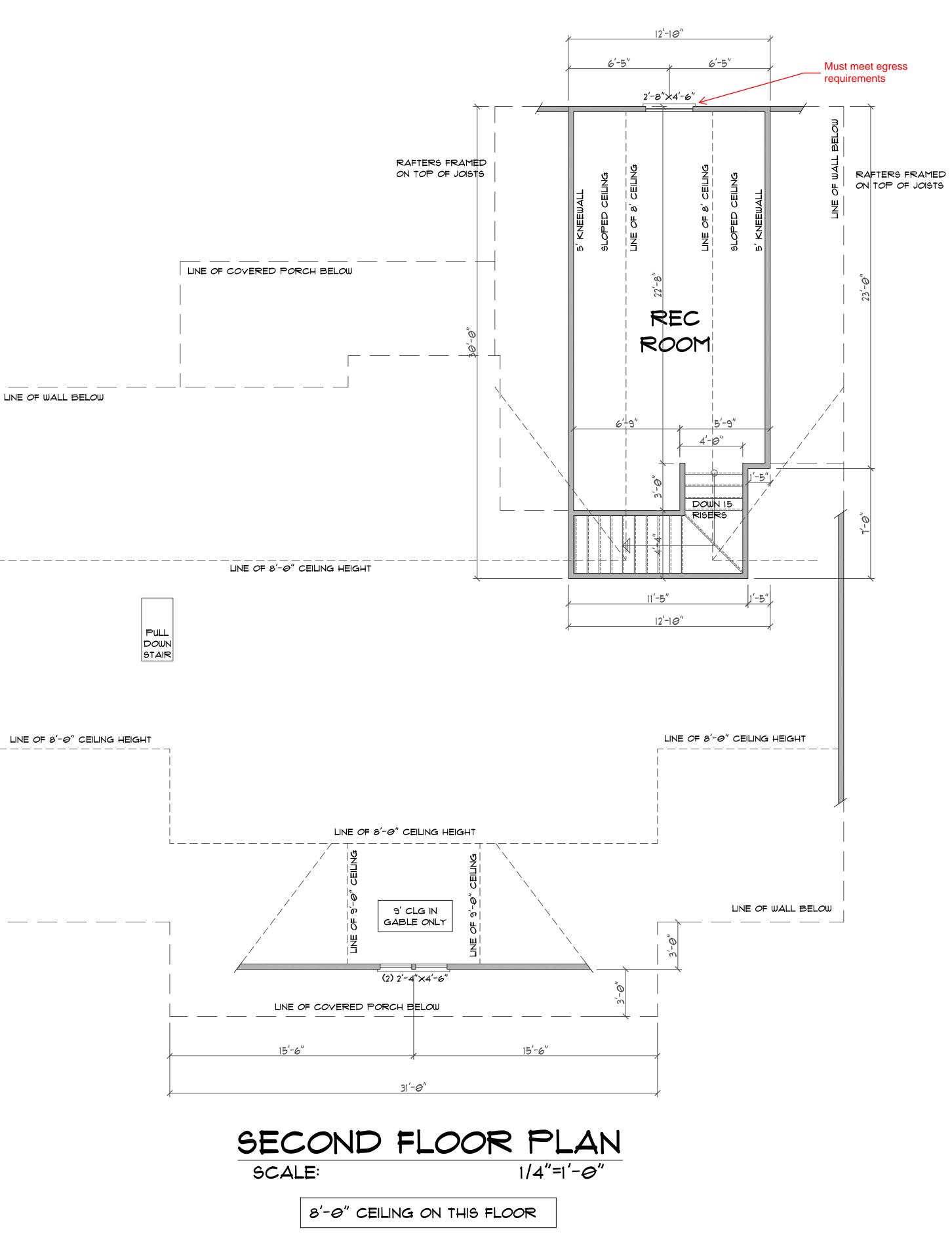
NOTES:

- 9'-0" CEILING ON THIS FLOOR UNLESS NOTED OTHERWISE (UNO)
- STAIRS ARE DESIGNED TO COVER A 120" MAX. RISE:
- 15 RISERS @ 1.86"+/- EACH OR 16 RISERS @ 1.3" +/- EACH 14 OR 15 TREADS @ 9" EACH (ROUGH CUT)
- (FIELD VERIFY ALL STAIRS DIMENSIONS)
- ALL ANGLES 45 UNLESS OTHERWISE NOTED
- ALL DOOR HEIGHTS 6'-8" UNLESS OTHERWISE NOTED
- ALL DOOR JAMBS ARE 4" UNLESS OTHERWISE NOTED
- SEE CHAPTER 6 OF THE 2018 NC RESIDENTIAL BUILDING CODE FOR WALL CONSTRUCTION
- GARAGE WALLS ADJACENT TO HEATED SPACE SHALL BE COVERED WITH FIRE RATED SHEETROCK PER CODE
- ALL HABITABLE ROOMS SHALL MEET LIGHT, VENTILATION & EGRESS CODES AS REQUIRED
- ALL WINDOW SIZES & DETAILS TO BE VERIFIED WITH
- CHOSEN MANUFACTURER
 PROVIDE SMOKE DETECTORS AS REQUIRED BY CODE



NOTES:

- 8'-0" CEILING ON THIS FLOOR UNLESS NOTED OTHERWISE (UNO)
- STAIRS ARE DESIGNED TO COVER A 120" MAX. RISE:
- 15 RISERS @ 7.86"+/- EACH OR 16 RISERS @ 7.3" +/- EACH
- 14 OR 15 TREADS @ 9" EACH (ROUGH CUT)
- (FIELD VERIFY ALL STAIRS DIMENSIONS)
- ALL ANGLES 45 UNLESS OTHERWISE NOTED
- ALL DOOR HEIGHTS 6'-8" UNLESS OTHERWISE NOTED
- ALL DOOR JAMBS ARE 4" UNLESS OTHERWISE NOTED
- SEE CHAPTER 6 OF THE 2018 NC RESIDENTIAL BUILDING
- CODE FOR WALL CONSTRUCTION • ALL HABITABLE ROOMS SHALL MEET LIGHT, VENTILATION \$EGRESS CODES AS REQUIRED
- ALL WINDOW SIZES \$ DETAILS TO BE VERIFIED WITH
- CHOSEN MANUFACTURER • PROVIDE SMOKE DETECTORS AS REQUIRED BY CODE



LINE OF WALL BELOW

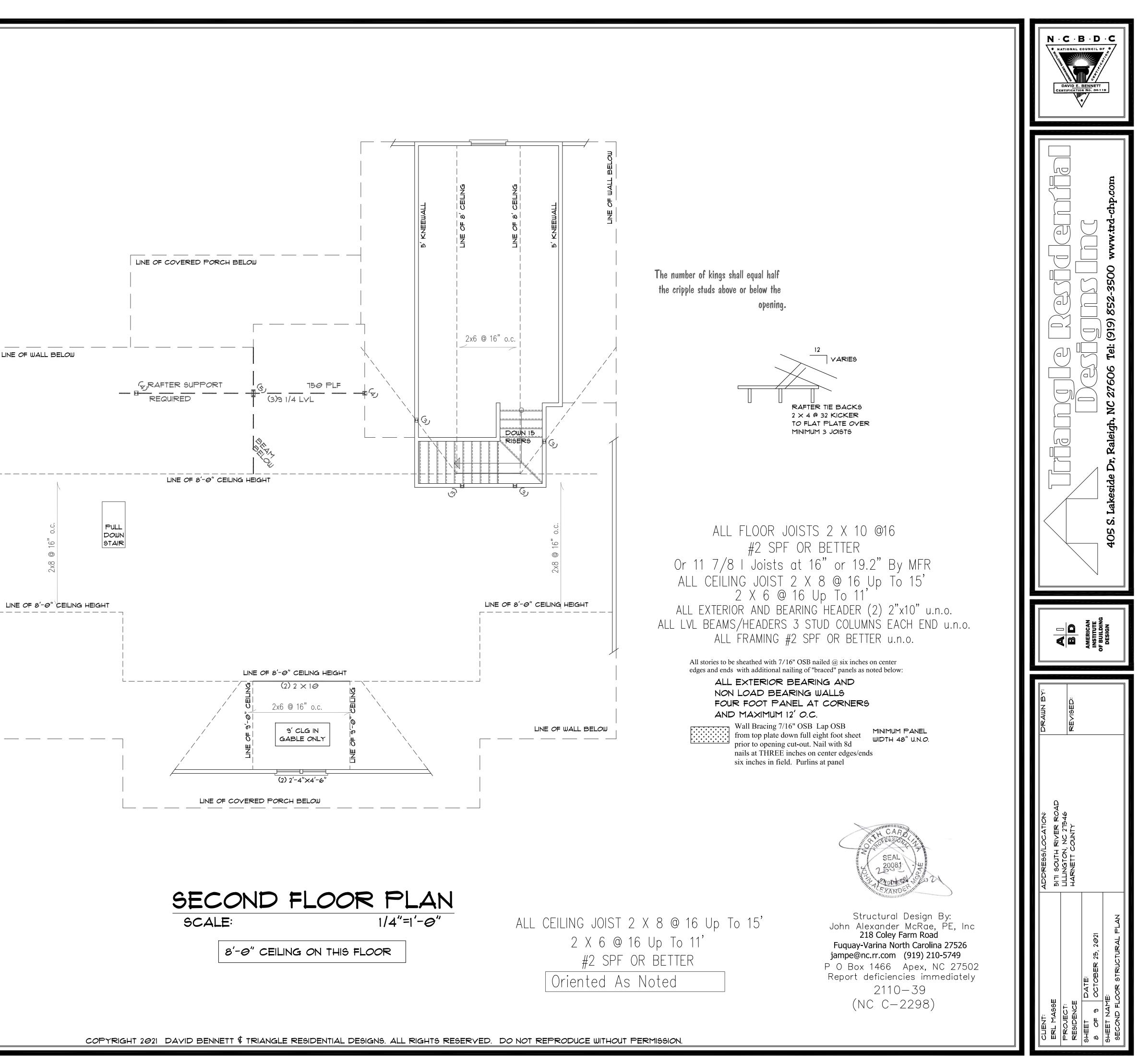
			D cil o via		
				405 S. Lakeside Dr, Raleigh, NC 27606 Tel: (919) 852-3500 www.trd-chp.com	
	- 0	AMERICAN	INSTITUTE OF BUILDING	DESIGN	
DRAWN BY:		AMERICAN		DESIGN	
				DESIGN	

NOTES:

• 8'-0" CEILING ON THIS FLOOR UNLESS NOTED OTHERWISE (UNO)

LINE OF WALL BELOW

- STAIRS ARE DESIGNED TO COVER A 120" MAX. RISE:
- 15 RISERS @ 7.86"+/- EACH OR 16 RISERS @ 7.3" +/- EACH
- 14 OR 15 TREADS @ 9" EACH (ROUGH CUT)
- (FIELD VERIFY ALL STAIRS DIMENSIONS)
- ALL ANGLES 45 UNLESS OTHERWISE NOTED
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- ALL DOOR JAMBS ARE 4" UNLESS OTHERWISE NOTED
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- ALL HABITABLE ROOMS SHALL MEET LIGHT, VENTILATION \$ EGRESS CODES AS REQUIRED
- ALL WINDOW SIZES \$ DETAILS TO BE VERIFIED WITH
- CHOSEN MANUFACTURER • PROVIDE SMOKE DETECTORS AS REQUIRED BY CODE



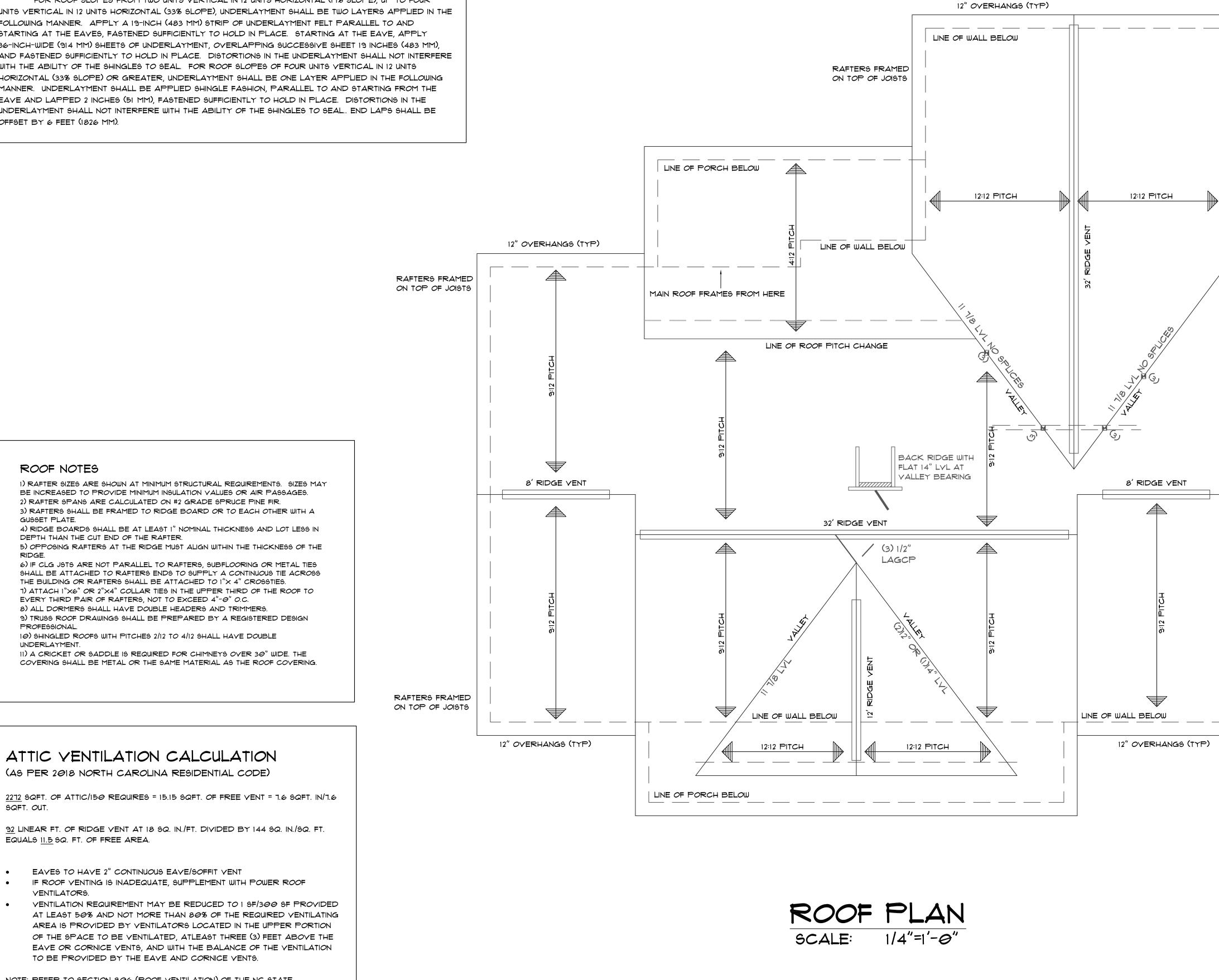
ROOF NOTES FOR 2/12 TO 4/12 ROOF PITCH (AS PER 2018 NC BUILDING CODE)

R905.2.2 SLOPE

ASPHALT SHINGLES SHALL BE USED ONLY ON ROOF SLOPES OF TWO UNITS VERTICAL IN 12 UNITS HORIZONTAL (2:12) OR GREATER. FOR ROOF SLOPES FROM TWO UNITS VERTICAL IN 12 UNITS HORIZONTAL (2:12) UP TO FOUR UNITS VERTICAL IN 12 UNITS HORIZONTAL (4:12), DOUBLE UNDERLAYMENT APPLICATION IS REQUIRED IN ACCORDANCE WITH SECTION R905.2.1

R905.2.1 UNDERLAYMENT APPLICATION

FOR ROOF SLOPES FROM TWO UNITS VERTICAL IN 12 UNITS HORIZONTAL (17% SLOPE), UP TO FOUR UNITS VERTICAL IN 12 UNITS HORIZONTAL (33% SLOPE), UNDERLAYMENT SHALL BE TWO LAYERS APPLIED IN THE FOLLOWING MANNER. APPLY A 19-INCH (483 MM) STRIP OF UNDERLAYMENT FELT PARALLEL TO AND STARTING AT THE EAVES, FASTENED SUFFICIENTLY TO HOLD IN PLACE. STARTING AT THE EAVE, APPLY 36-INCH-WIDE (914 MM) SHEETS OF UNDERLAYMENT, OVERLAPPING SUCCESSIVE SHEET 19 INCHES (483 MM), AND FASTENED SUFFICIENTLY TO HOLD IN PLACE. DISTORTIONS IN THE UNDERLAYMENT SHALL NOT INTERFERE WITH THE ABILITY OF THE SHINGLES TO SEAL. FOR ROOF SLOPES OF FOUR UNITS VERTICAL IN 12 UNITS HORIZONTAL (33% SLOPE) OR GREATER, UNDERLAYMENT SHALL BE ONE LAYER APPLIED IN THE FOLLOWING MANNER. UNDERLAYMENT SHALL BE APPLIED SHINGLE FASHION, PARALLEL TO AND STARTING FROM THE EAVE AND LAPPED 2 INCHES (51 MM), FASTENED SUFFICIENTLY TO HOLD IN PLACE. DISTORTIONS IN THE UNDERLAYMENT SHALL NOT INTERFERE WITH THE ABILITY OF THE SHINGLES TO SEAL. END LAPS SHALL BE OFFSET BY 6 FEET (1826 MM).



NOTE: REFER TO SECTION 806 (ROOF VENTILATION) OF THE NC STATE RESIDENTIAL CODE

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RAFTERS FRAMED ON TOP OF JOISTS

> RAFTER TIE BACKS 2×4 @ 32 KICKER TO FLAT PLATE OVER

> > MINIMUM 3 JOISTS

all rafters 2 x 8 @ 16 #2 spf or better all ridges **2** x 10 u.n.o. fur ridge as required to provide full rafter contact fur rafters as required to meet insulation code lap all rafters at kneewall splices 18" minimum nail with 5-12d nails from each side IRC 2015 / NCBC 2018 INCREASES ATTIC / CEILING INSULATION TO R-38

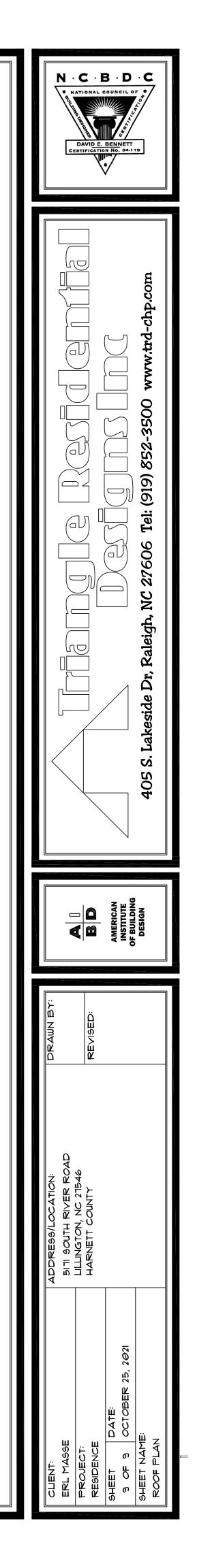
Hips May Be Spliced with six feet between opposing splices NO Valley Splices

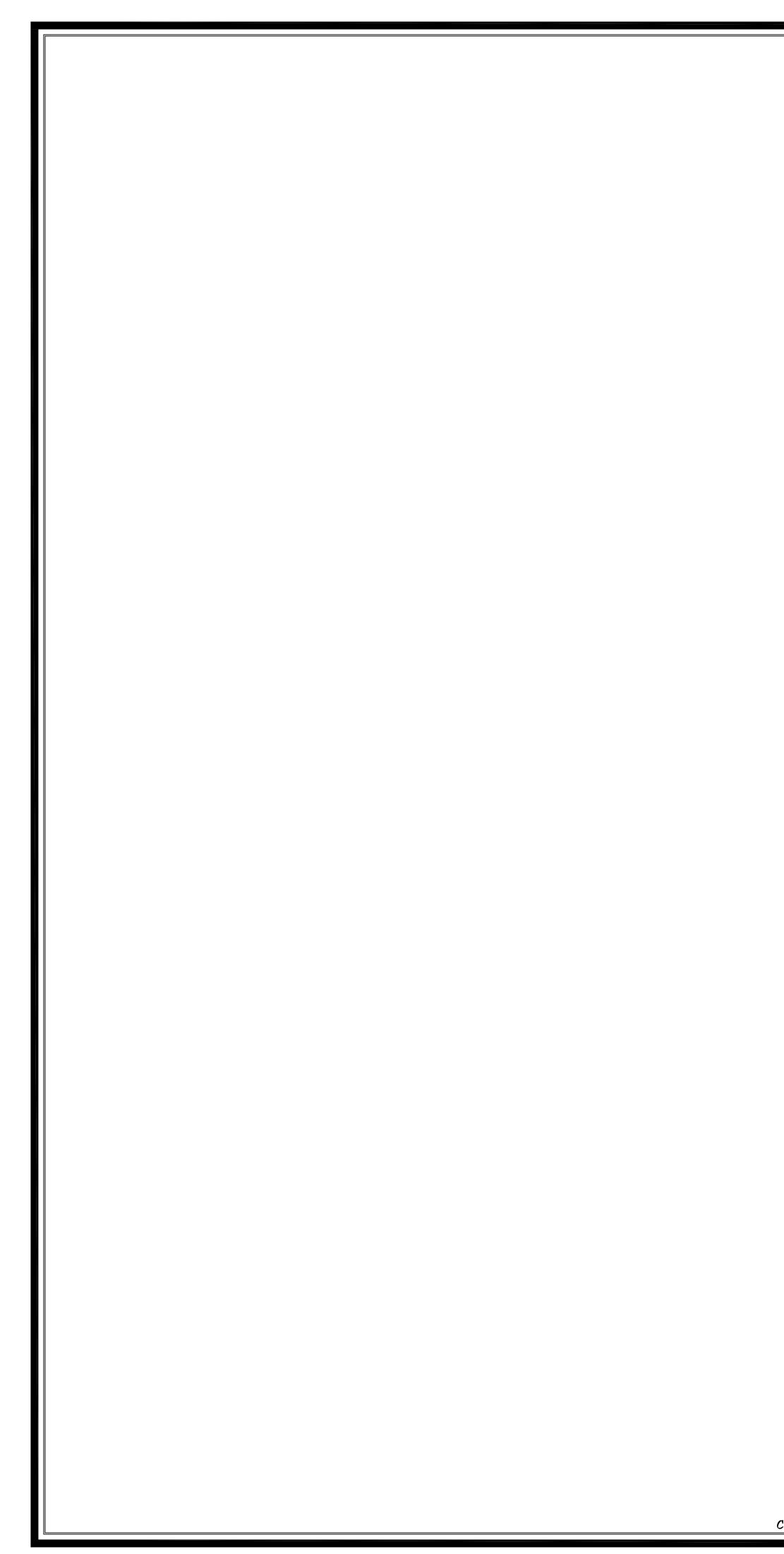
RAFTERS FRAMED ON TOP OF JOISTS

2 x 4 x 48 @ 32 Collar Ties (115 mph zones)



Structural Design By: John Alexander McRae, PE, Inc 218 Coley Farm Road Fuquay-Varina North Carolina 27526 jampe@nc.rr.com (919) 210-5749 P O Box 1466 Apex, NC 27502 Report deficiencies immediately 2110-39 (NC C-2298)





GLAZING

1) ALL HABITABLE ROOMS SHALL HAVE A GLAZING AREA OF NOT LESS THAN 8% OF THE FLOOR AREA. 2) WINDOWS SHALL HAVE A MINIMUM DESIGN

REQUIREMENT OF 25#DPI AND U=.40 3) VERIFY WINDOW EGRESS WITH WINDOW MANUFACTURER.

EMERGENCY ESCAPE

1) OPENINGS PROVIDED AS MEANS OF ESCAPE CANNOT HAVE A SILL HEIGHT OF MORE THAN 44" ABOVE THE FLOOR. 2) ESCAPE OPENINGS SHALL HAVE A MINIMUM NET CLEAR OPENING OF 4 SQ. FT. THE MINIMUM CLEAR OPENING HEIGHT IS 22" AND THE WIDTH IS 20".

3) ESCAPE OPENING SHALL HAVE A TOTAL GLASS AREA OF NOT LESS THAN 5 SQ. FT. FOR A GROUND WINDOW AND 5.7 SQ. FT. FOR AN UPPER STORY WINDOW.

4) REQUIRED EXIT DOORS SHALL BE NO LESS THAN 3"-0" x 6'-8".

GARAGE

1) DOOR FROM GARAGE TO HOUSE MUST BE 1-3/8" THICK SOLID WOOD OR SOLID OR HONEYCOMBED CORE STEEL DOORS OR 20 MIN. FIRE RATED.

2) GARAGE SHALL BE SEPARATED FROM THE RESIDENCE AND ITS ATTIC AREA BY NOT LESS THAN 1/2" GYPSUM BOARD APPLIED TO THE GARAGE SIDE.

STAIRWAYS

1) STAIRWAYS SHALL BE A MINIMUM 3'-O" WIDE. 2) HANDRAILS SHALL NOT PROJECT MORE THAN 4.5" ON EITHER SIDE.

3) MINIMUM CLEAR WIDTH OF THE STAIRWAY AT AND BELOW THE HANDRAIL SHALL NOT BE LESS THAN 31.5" WHERE THE HANDRAIL IS INSTALLED ON ONE SIDE AND 27" WHERE HANDRAILS ARE ON BOTH SIDES. 4) STAIRS NOT REQUIRED FOR EGRESS MAY BE AS NARROW

AS 26" 5) MAXIMUM RISER HEIGHT SHALL BE 8-1/4" AND THE MINIMUM TREAD DEPTH SHALL BE 9".

6) NOSING SHALL BE 3/4" MINIMUM AND 1-1/4" MAXIMIUM. 7) MINIMUM HEADROOM IN ALL PARTS OF THE STAIR SHALL NOT BE LESS THAN 6'-8".

8) WINDERS MUST, AT A POINT NOT MORE THAN 12" FROM THE SIDE WHERE THE TREADS ARE NARROWER, BE LESS THAN 9" AND THE MINIMUM WIDTH OF ANY TREAD IS NOT LESS THAN 4".

9) SPIRAL STAIRS MUST BE 26" WIDE MINIMUM AND TREADS MUST BE 7-1/2" at 12" FROM THE NARROW EDGE. ALL TREADS MUST BE IDENTICAL WITH A MAXIMUM RISE OF 9-1/2". MINIMUM HEADROOM OF 6'-8" REQUIRED. 10) CIRCULAR STAIRS MUST, AT A POINT NOT MORE THAN 12" FROM THE SIDE WHERE THE TREADS ARE NARROWER, BE LESS THAN 9" AND THE MINIMUM WIDTH OF ANY TREAD IS NOT LESS THAN 6".

HANDRAIL AND GUARDS

1) HANDRAILS SHALL HAVE A MINIMUM HEIGHT OF 34" AND A MAXIMUM HEIGHT OF 38". 2) PORCHES, BALCONIES OR RAISED FLOORS OVER 30"

ABOVE FLOOR OR GRADE SHALL HAVE GUARD RAILS NO LESS THAN 36" HIGH.

3) STAIRS THAT HAVE A RISE OF 30" ABOVE THE FLOOR SHALL HAVE HANDRAILS OF 30" HIGH.

4) GUARDS ON OPEN SIDES OF STAIRWAYS, RAISED FLOORS, BALCONIES AND PORCHES SHALL HAVE INTERMEDIATE RAILS OR ORNAMENTAL CLOSURES OF LESS THAN 4" TO REJECT A 4" SPHERE.

NOTES:

* THESE PLANS, NOTES AND DETAILS ARE DESIGNED TO MEET THE REQUIREMENTS OF THE 2018 NC BUILDING CODE.

* ALL NOTES ARE APPLICABLE UNLESS NOTED OTHERWISE (UNO)

* THIS DETAIL SHEET IS TO BE USED ONLY IN CONJUNCTION WITH PLANS CREATED BY TRIANGLE RESIDENTIAL DESIGNS, INC.

NOTE: SEALED ENGINEER'S DRAWINGS TAKE PRECEDENCE OVER TRD'S STANDARD DETAILS AND NOTES

FOUNDATION NOTES

1) CRAWL SPACE IS TO BE LEVEL & CLEAN OF CONSTRUCTION DEBRIS, VEGETATION AND ANY ORGANIC MATERIAL. 2) ONE VENT MUST BE WITHIN 3' OF EACH CORNER OF THE BUILDING 3) POSSIBLE VENT LOCATIONS INDICATED ON THE FOUNDATION PLAN. 4) APPROVED VAPOR RETARDER TO COVER 100% OF CRAWL SPACE.

FOOTINGS

1) FOOTING PROJECTIONS SHALL BE AT LEAST 2" AND SHALL NOT EXCEED THE THICKNESS OF THE FOOTING. 2) THE TOP SURFACE OF FOOTINGS SHALL BE LEVEL W/MASONRY UNITS WITH FULL MORTAR JOINTS. BOTTOM SURFACE OF FOOTINGS MAY SLOPE NO MORE THAN 10%. FOOTINGS SHALL BE STEPPED TO CHANGE THE ELEVATION OF THE TOP SURFACE OR WHERE THE SLOPE OF THE BOTTOM OF THE FOOTING WILL EXCEED 10%. 3) FINISHED GRADE OF THE UNDER FLOOR SURFACE MAY BE LOCATED AT THE BOTTOM OF THE FOOTINGS. 4) MINIMUM 8" WALL FOOTING TO BE NO LESS THAN 16" X 8" 5) MINIMUM CONCRETE FOOTING STRENGTH = 3000 PSI

DRAINAGE

1) INSTALL AROUND FOUNDATION, DRAIN TILES, GRAVEL OR CRUSHED STONE DRAINS, PERFORATED PIPES OR OTHER APPROVED SYSTEM AS REQUIRED BY GRADE. 2) FOUNDATION DRAINAGE MAY BE OMITTED WHEN THE INTERIOR

GRADE IS LESS THAN 12" BELOW THE EXTERIOR GRADE. 3) GRADE LOT SO AS TO DRAIN SURFACE WATER AWAY FROM FOUNDATION WALLS AT A MINIMUM OF 6" WITHIN THE FIRST 10'.

WATERPROOFING:

1) FOUNDATION WALLS, WHERE THE OUTSIDE GRADE IS HIGHER THAN THE INSIDE GRADE, SHALL BE DAMPROOFED FROM THE TOP OF THE FOOTING TO THE FINISHED GRADE. USE CODE APPROVED METHOD

ANCHORAGE

1) THE WOOD SOLE PLATE AT EXTERIOR WALLS ON MONOLITHIC SLABS AND WOOD SILL PLATE SHALL BE ANCHORED TO THE FOUNDATION W/ANCHOR BOLTS SPACED A MAXIMUM OF 6'-O" ON CENTER AND LOCATED WITHIN 12" FROM THE ENDS OF EACH PLATE SECTION. BOLTS SHALL BE AT LEAST 1/2" IN DIAMETER AND SHALL EXTEND A MINIMUM OF 7" INTO MASONRY OR CONCRETE. 2) BOLTS MAY BE REPLACED BY ANCHOR STRAPS, SPACED AS REQUIRED TO PROVIDE EQUIVALENT ANCHORAGE. 3) INTERIOR BEARING WALL SOLE PLATES ON MONOLITHIC SLABS SHALL BE ANCHORED W/APPROVED FASTENERS.

FOUNDATION WALLS

1) VERTICAL REINFORCEMENT OF MASONRY WALLS SHALL BE TIED TO THE HORIZONTAL REINFORCEMENT OF THE FOOTINGS. 2) FOUNDATION WALL IS TO BE 8" CONC. BLOCK OR 8" BRICK & BLOCK ON CONTINUOUS CONCRETE FOOTING. 3) FOUNDATION WALL IS TO HAVE A SOLID 8" MASONRY CAP.

4) WALL HEIGHT ABOVE FINISHED SHALL BE 4" WHERE MASONRY VENEER IS USED AND 6" ELSEWHERE. 5) WALL SUPPORTING OVER 4' OF UNBALANCED BACKFILL MUST BE

BRACED TO PREVENT DAMAGE BY THE BACKFILL. 6) CAVITY WALL OR MASONRY VENEER CONSTRUCTION MAY BE SUPPORTED ON AN 8" FOUNDATION WALL, PROVIDED THE WALL IS CORBELED WITH SOLID MASONRY TO THE WIDTH OF THE WALL SYSTEM ABOVE. THE TOTAL HORIZONTAL PROJECTION OF THE CORBEL SHALL NOT EXCEED 2" WITH INDIVIDUAL CORBELS PROJECTING NOT MORE THAN I/3 THE THICKNESS OF THE UNIT OR 1/2 THE HEIGHT OF

THE UNIT. THE TOP COURSE OF ALL CORBELS SHALL BE A HEADER COURSE 7) VENTS ARE INTENDED TO BE 16" X 8" ALUMINUM.

PIERS

1) MASONRY PIERS HEIGHT SHALL NOT EXCEED 10 TIMES THEIR LEAST DIMENSION.

2) WHEN STRUCTURAL CLAY OR HOLLOW CONCRETE MASONRY UNITS ARE USED TO SUPPORT BEAMS & GIRDERS, THE CELLULAR SPACES MUST BE FILLED SOLIDLY WITH CONCRETE OR TYPE "M" OR "S" MORTAR.

3) UNFILLED UNITS MAY BE USED IF THE HEIGHT IS NOT MORE THAN 4 TIMES THE LEAST DIMENSION. 4) HOLLOW PIERS SHALL BE CAPPED WITH 4" OF SOLID MASONRY OR

CONCRETE, OR SHALL HAVE CAVITITES OF THE TOP COURSE FILLED WITH CONCRETE.

5) PIERS INDICATED ON PLAN ARE TYPICALLY 16"x 16" ON 24"x 24"x 8" FOOTINGS.

6) TIE ALL HALF PIERS INTO WALLS

CAVITY ACCESS

1) MIN. CRAWL SPACE ACCESS IS 18"(W) x 24"(H) W/DBL. BAND ABOVE. PLACE AT BEST LOCATION WITH REFERENCE TO GRADE. 2) ACCESS MAKE BE INCREASED IF MECHANICAL EQUIPMENT IS LOCATED UNDER FLOORS - SEE NC MECHANICAL CODE FOR REQUIREMENTS.

3) ATTIC ACCESS SHALL BE 22"x 30" MINIMUM.

COM	PONENT &	CLADDI	NG		
FOR THE FOLLOWING					
	MI	EAN ROOF HEI	GHI		
	UP TO 30'	30'-1" TO 35'	35		
ZONE 1	16.5, -18.0	17.3, -18.9	1		
ZONE 2	16.5, -21.0	17.3, -22.1	1		
ZONE 3	16.5, -21.0	17.3, -22.1	1		
ZONE 4	18.0, -19.5	18.9, -20.5	1		
ZONE 5	18.0, -24.1	18.9, -25.3	1		
SEE NC BUILDING CODE FOR LOCATION					
PLUS AND MINUS SIGNS SIGNIFY PRES					

PLUS AND MINUS SIGNS SIGNIFY PRESSURES ACTING TOWARDS AND AWAY FROM THE BUILDING SURFACES

IG DESIGNED LOADS 25'-1" TO 40' |40'-1" TO 45 18.0, -19.6 | 18.5, -20.2 18.0, -22.9 18.5, -23.5 18.0, -22.9 | 18.5, -23.5 19.6, -21.3 20.2, -21.8 19.6, -26.3 | 20.2, -27.0 ON OF ZONES

FLOOR PLAN NOTES

1) ALL JOIST SPANS ARE CALCULATED USING #2 GRADE SPRUCE PINE 2) JOIST SIZES ARE SHOWN AT MINIMUM TO MEET STRUCTURAL REQUIREMENTS. SIZES MAY BE INCREASED TO PROVIDE MINIMUM

INSULATION VALUES OR AIR PASSAGES. 3) PROVIDE DOUBLE FLOOR JOISTS AT ALL NON LOAD BEARING PARTITION WALLS RUNNING PARALLEL TO FLOOR JOISTS. ALSO UNDER ALL BOOKCASES, CABINETS, TUBS AND WASHING MACHINES

(RECOMMENDED - NOT REQUIRED) 4) FLOOR JOISTS MUST BEAR 1.5" MIN. ON WOOD OR METAL AND 3" MIN. ON MASONRY OR CONCRETE.

5) PROVIDE 1"x4" CROSS-BRACING OR SOLID BLOCKING BETWEEN FLOOR JOISTS AT 6"-0" O.C. MAX. (RECOMMENDED BUT NOT

REQUIRED.) 6) ALL EXTERIOR AND LOAD BEARING HEADERS ARE TO BE (2)-2X10. 7) MINIMUM LVL DESIGN STRENGTH: E=2.0 x 2 MILLION PSI, FB=2800 PSI, FX=285 PSI

8) ALL LVL BEAMS TO HAVE 3 STUDS EACH END.

9) LOAD BEARING HEADER JACKS MUST REST ON DOUBLE JOISTS -SUPPLY EXTRA JOISTS AS REQUIRED 10) DRAFTSTOPPING AND FIREBLOCKING AS REQUIRED PER CODE.

11) DESIGNS FOR WOOD FLOOR TRUSSES MUST BE PREPARED BY A **REGISTERED DESIGN PROFESSIONAL.**

WOOD WALL CONSTRUCTION

1) ALL STUDS ARE TO BE #3 GRADE STANDARD OR STUD GRADE LUMBER. - #2 GRADE RECOMMENDED BUT NOT REQUIRED. 2) ALL INTERIOR LOAD-BEARING WALLS SHALL BE CONSTRUCTED, FRAMED & FIREBLOCKED AS SPECIFIED FOR EXTERIOR WALLS. 3) WALLS ARE 2x4 STUDS @ 16" O.C. 4) ALL OPEN AREA, TWO STORY WALLS ARE TO BE BALLOON FRAMED,

2"X 6" STUDS AT 12" O.C. 5) DRAFTSTOPPING AND FIREBLOCKING REQUIRED AS PER CODE.

6) ALL OPEN AREA, TWO STORY WALLS ARE TO BE BALLOON FRAMED, 2"X 6" STUDS AT 12" O.C. 7) WINDOWS SHOULD BE RATED FOR 25PSI.

GARAGE DOOR WALL CONSTRUCTION

ONLY FOR GARAGE DOOR WALLS THAT DO NOT MEET BRACING REQUIREMENTS OF THE NC 2002 RESIDENTIAL BUILDING CODE: 1) PLACE (2)-1/2" DIAM. ANCHOR BOLTS AT OUTSIDE QUARTER OF THESE PANLES. EXTEND #4 STEEL REINFORCING VERTICALLY, LAPPING THE ANCHOR BOLT A MINIMUM OF 6" AND EXTENDING TO THE FOOTING WITH A 4" MINIMUM HORIZONTAL LEG INTO THE FOOTING. THE FOOTING MUST BE REINFORCED WITH (1) #4 BAR TOP AND BOTTOM IN THIS AREA. SECURE WALL TO ANCHOR BOLTS WITH SIMPSON "STRONG TIE" LTTI31, HTT16, HTT22, MTT28B OR TENSION TIE WITH 1800# MINIMUM CAPACITY.

2) FULLY FACE GARAGE WALL WITH 7/16" OSB OR 1/2" CDX, NAILED PER TABLE R602.3(1) AND BLOCKED AT ALL WOOD STRUCTURAL PANEL SHEATHING EDGES.

CONCRETE SLAB FLOORS

1) CONCRETE SLAB ON GROUND FLOORS SHALL BE A MINIMUM OF 3-1/2" THICK.

2) FILL MATERIAL SHALL BE COMACTED TO ASSURE UNIFORM SUPPORT OF SLAB.

3) FILL SHALL NOT EXCEED 24" FOR CLEAN SAND OR GRAVEL AND 8" FOR EARTH. 4) GARAGE SLABS SHALL BE 4" CONC. W/6x6 WWM OR FIBERMESH,

WITH VAPOR BARRIER, OVER 4" OF CRUSHED STONE OR GRAVEL ON TAMPED EARTH. (WWM OR FIBERMESH RECOMMENDED - NOT REO'D) 5) GARAGE SLAB SHALL BE SLOPED TO FACILITATE THE MOVEMENT OF LIQUIDS TO A DRAIN OR TOWARD THE MAIN VEHICLE ENTRYWAY. 6) BASEMENT SLABS: SAME AS GARAGE SLABS BUT WITH PERIMETER INSULATION PER CODE.

7) ELEVATED GARAGE FLOOR SHALL BE CAPABLE OF SUPPORTING A 2,000# LOAD OVER A 20-SQARE-INCH AREA WITH A LIVE LOAD OF 50 PSF

8) EXPANSION JOINT REQUIRED WHERE ENCLOSED SLAB MEETS FOUNDATION WALL.

DECK NOTES

1) WHEN THE DECK IS ATTACHED TO THE STRUCTURE, THE STRUCTURE SHALL HAVE A TREATED WOOD BAND FOR THE LENGTH OF THE DECK, OR CORROSION RESISITANT FLASHING SHALL BE USED TO PREVENT MOISTURE FROM COMING IN CONTACT WITH THE UNTREATED FRAMING FO THE STRUCTURE.

2) THE DECK AND STRUCTURE BANDS SHALL BE CONSTRUCTED IN CONTACT WITH EACH OTHER, EXCEPT ON BRICK VENEER STRUCTURES AND WHERE PLYWOOD SHEATHING IS REQUIRED AND PROPERLY FLASHED.

3) SIDING SHALL NOT BE INSTALLED BETWEEN THE STRUCTURE AND THE DECK BAND.

4) IF ATTACHED TO A BRICK STRUCTURE, NEITHER THE FLASHING NOR A TREATED BAND FOR THE STRUCTURE IS REQUIRED. THE TREATED DECK BAND SHALL BE CONSTRUCTED IN CONTACT WITH THE BRICK VENEER.

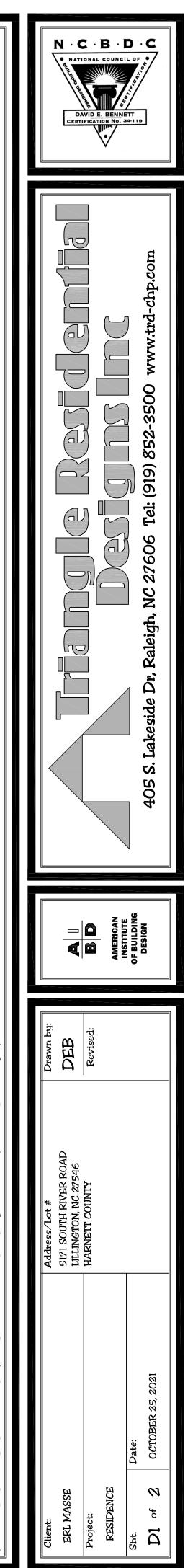
5) GIRDERS SHALL BEAR DIRECTLY ON POSTS OR BE CONNECTED TO THE SIDES OF THE POSTS WITH 2-5/8" HOT DIPPED GALVANIZED BOLTS.

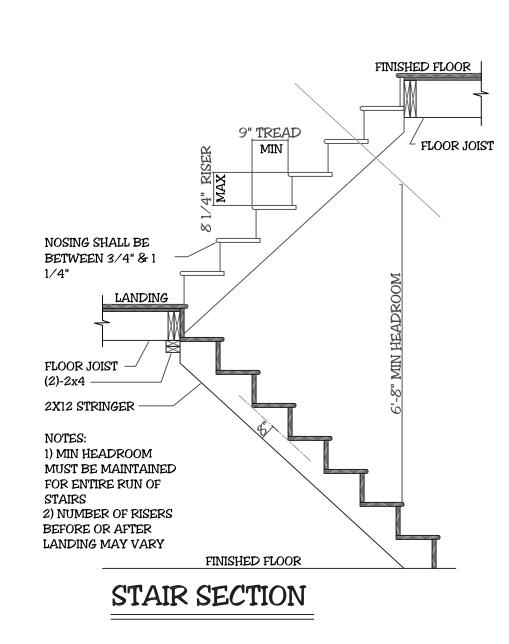
6) FLOOR DECKING SHALL BE #2 GRADE TREATED SOUTHERN PINE OR EQUIVALENT. MINIMUM FLOOR DECKING THICKNESS FOR JOISTS AT 16" O.C. IS 1" T&G.

7) DECKS MAY NOT BE ATTACHED TO CANTILEVERED FLOOR SYSTEMS. 8) ALL JOIST SPANS ARE CALCULATED USING #2 GRADE SPRUCE PINE FIR.

9) JOIST SIZES ARE SHOWN AT MINIMUM TO MEET STRUCTURAL REQUIREMENTS. SIZES MAY BE INCREASED. 10) DECKS OVER 4'-0" ABOVE GRADE SHALL BE BRACED AS PER CODE APPENDIX M.

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2x WALL STUD @ 16" SPECIFIED SIDING 1/2" SHEATHING-R-15 INSULATION -

1x4 TRIM ON 1x10 FASCIA -

WOOD TRIM-

BEARING PLATE 2x BLOCKING HURRICANE TIE 2x2 NAILER 3/8" PLYWOOD SOFFIT W/VENT-

SHINGLES AS SPECIFIED ON #15 FELT ON 3/8" OR 1/2" PLYWOOD -

STUDS @ 16" OC, UNO -2x TREATED BOTTOM PLATE -CONCRETE SLAB 4" STONE -SEE PLAN THICKENED SLAB

