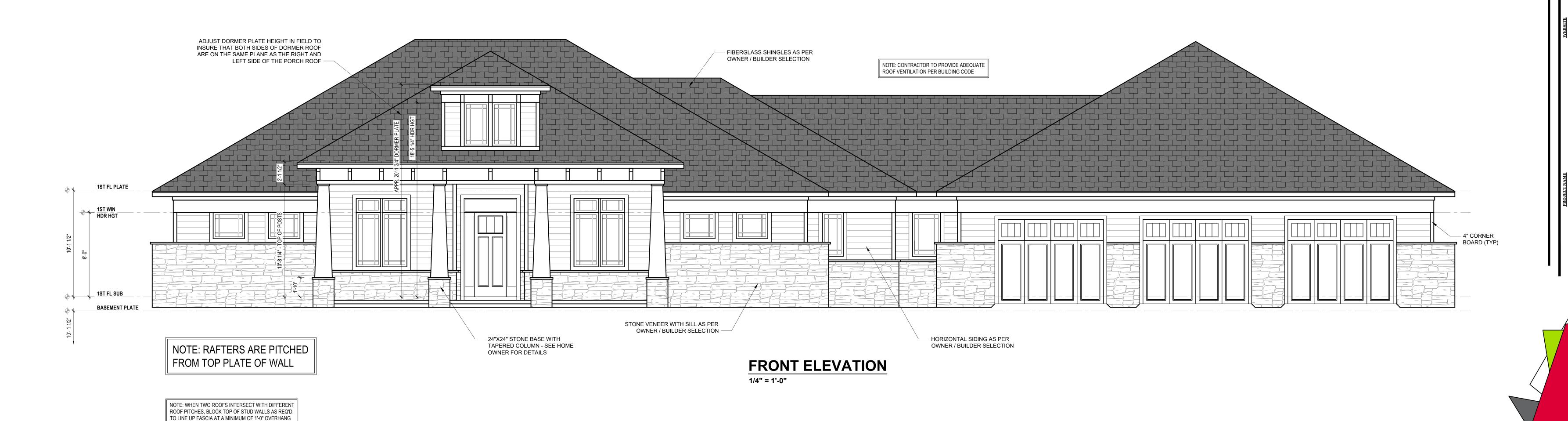
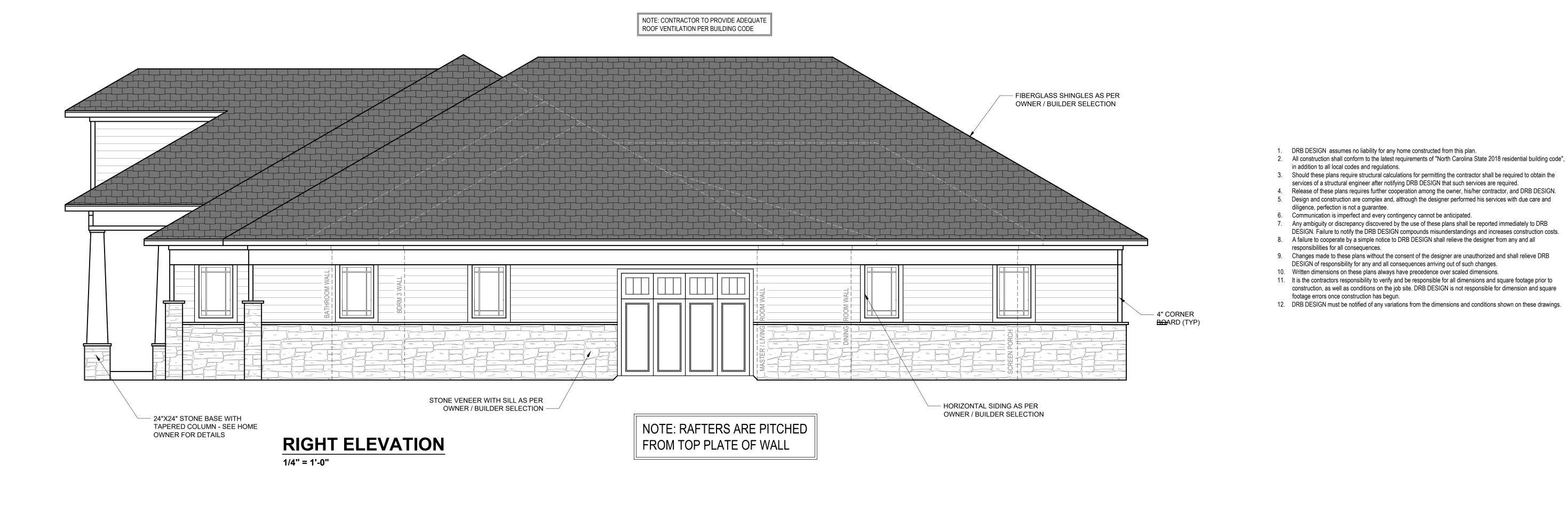
LARKEY RESIDENCE





2301-010343
DATE
01/08/2024
DRAWN/DESIGNED BY
DRB
CHECKED BY
NW
SCALE
1/4"=1'-0"

bhomedesign.com

drbhomedesig

PERSONAL

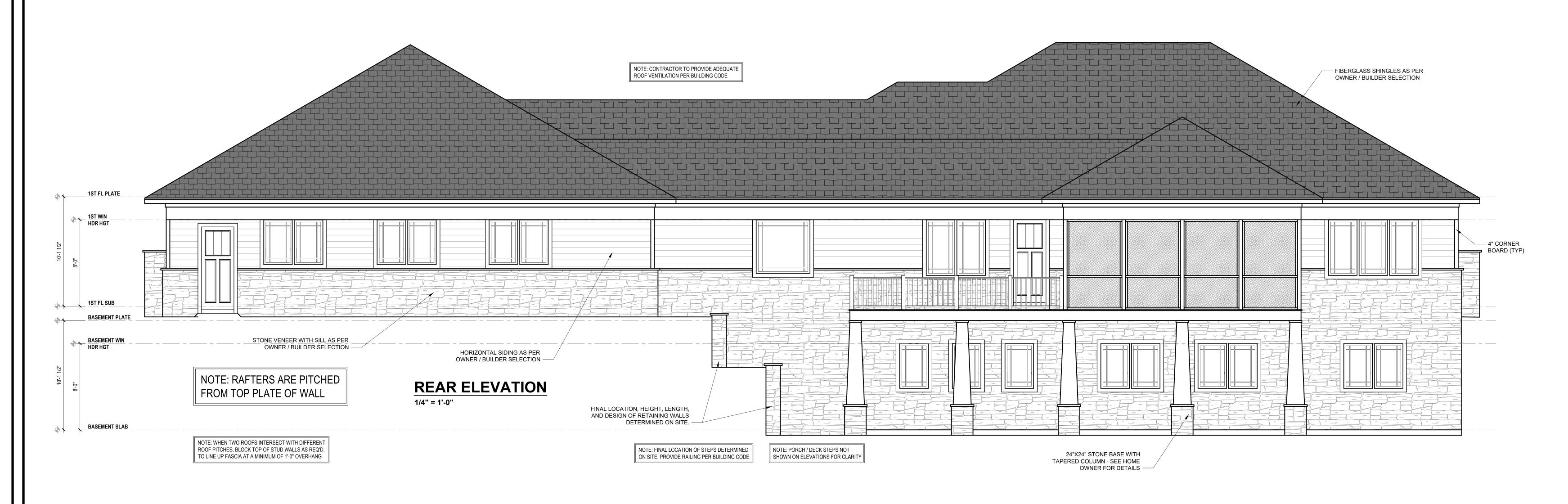
esign@drbhomedesign.com 919.631.5979 O Shipwash Dr Suite 105 Garner, NC 27529

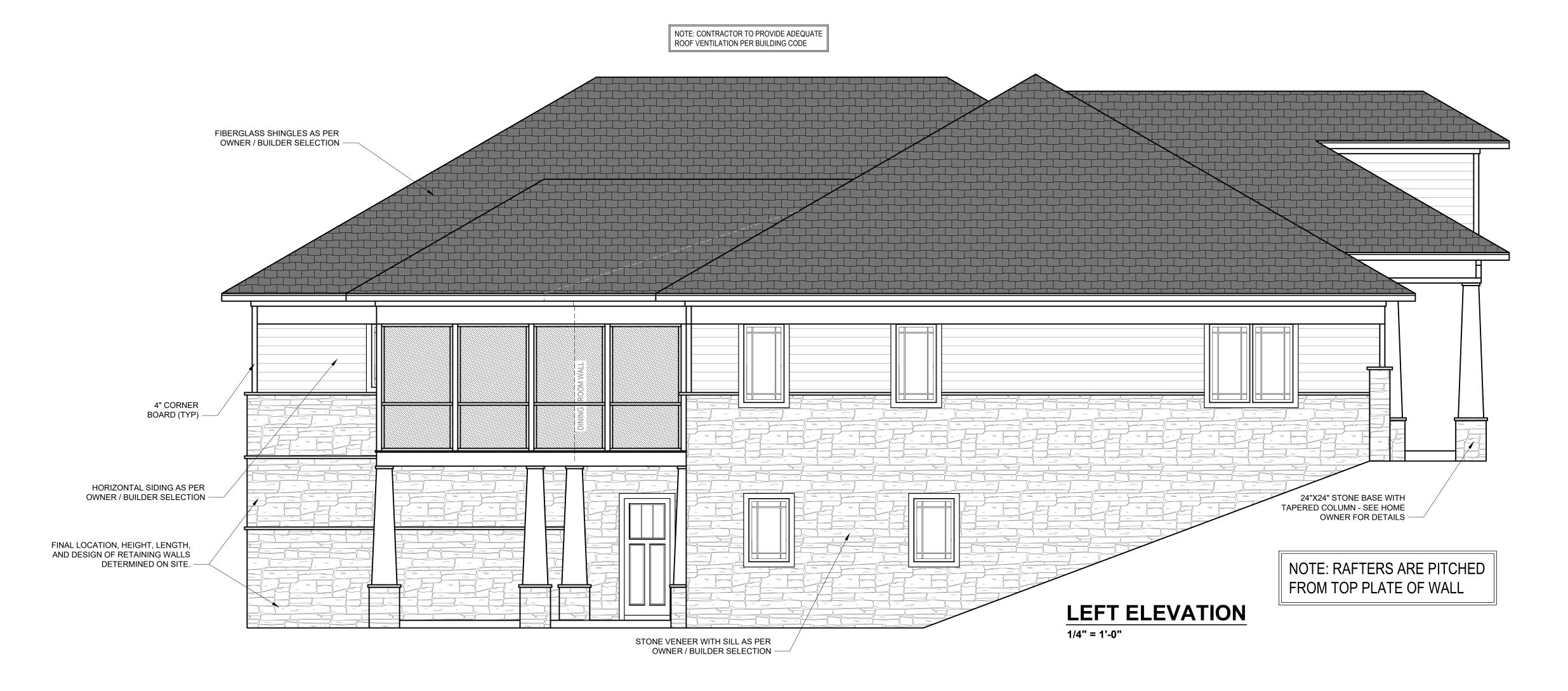
Scott Larkey 128 Fisher Rd illington, NC 27546 darkey1@gmail.com

SHEET NAME ELEVATIONS

1

LARKEY RESIDENCE





1. DRB DESIGN assumes no liability for any home constructed from this plan. 2. All construction shall conform to the latest requirements of "North Carolina State 2018 residential building code", in addition to all local codes and regulations.

3. Should these plans require structural calculations for permitting the contractor shall be required to obtain the services of a structural engineer after notifying DRB DESIGN that such services are required.

 Release of these plans requires further cooperation among the owner, his/her contractor, and DRB DESIGN.
 Design and construction are complex and, although the designer performed his services with due care and diligence, perfection is not a guarantee.

6. Communication is imperfect and every contingency cannot be anticipated. 7. Any ambiguity or discrepancy discovered by the use of these plans shall be reported immediately to DRB DESIGN. Failure to notify the DRB DESIGN compounds misunderstandings and increases construction costs.

responsibilities for all consequences. 9. Changes made to these plans without the consent of the designer are unauthorized and shall relieve DRB

DESIGN of responsibility for any and all consequences arriving out of such changes.

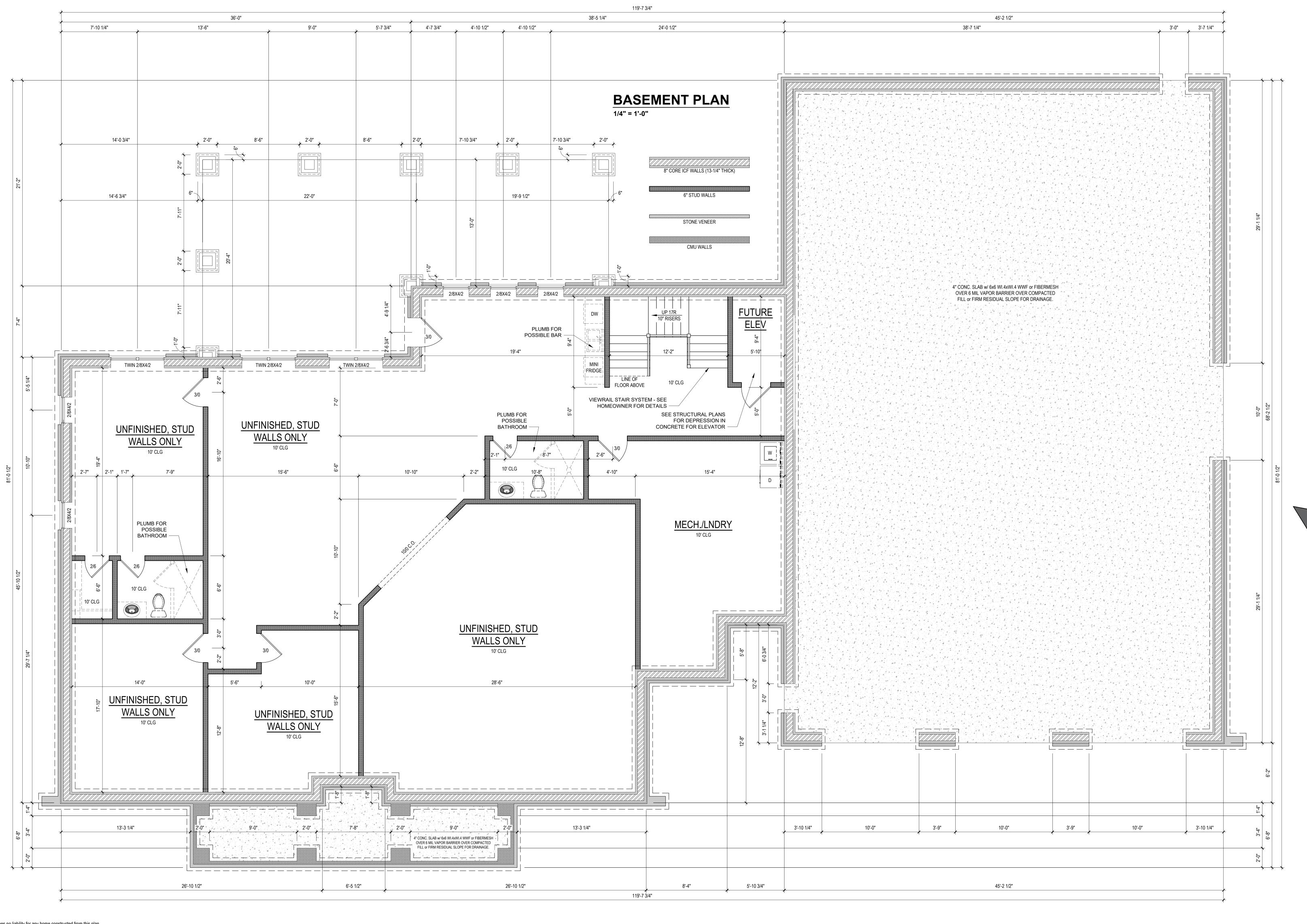
10. Written dimensions on these plans always have precedence over scaled dimensions. 11. It is the contractors responsibility to verify and be responsible for all dimensions and square footage prior to

construction, as well as conditions on the job site. DRB DESIGN is not responsible for dimension and square

8. A failure to cooperate by a simple notice to DRB DESIGN shall relieve the designer from any and all

footage errors once construction has begun. 12. DRB DESIGN must be notified of any variations from the dimensions and conditions shown on these drawings. 01/08/2024 DRAWN/DESIGNED BY DRB CHECKED BY SCALE 1/4"=1'-0"

ELEVATIONS



DRB DESIGN assumes no liability for any home constructed from this plan.
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in addition to all local codes and regulations.

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4. Poleons of these plans requires further approach to approach the surround bid loss contractors and DRB DESIGN.

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NOTE: SEE STRUCTURAL
PLANS FOR ENGINEERING
INFORMATION

BASEMENT

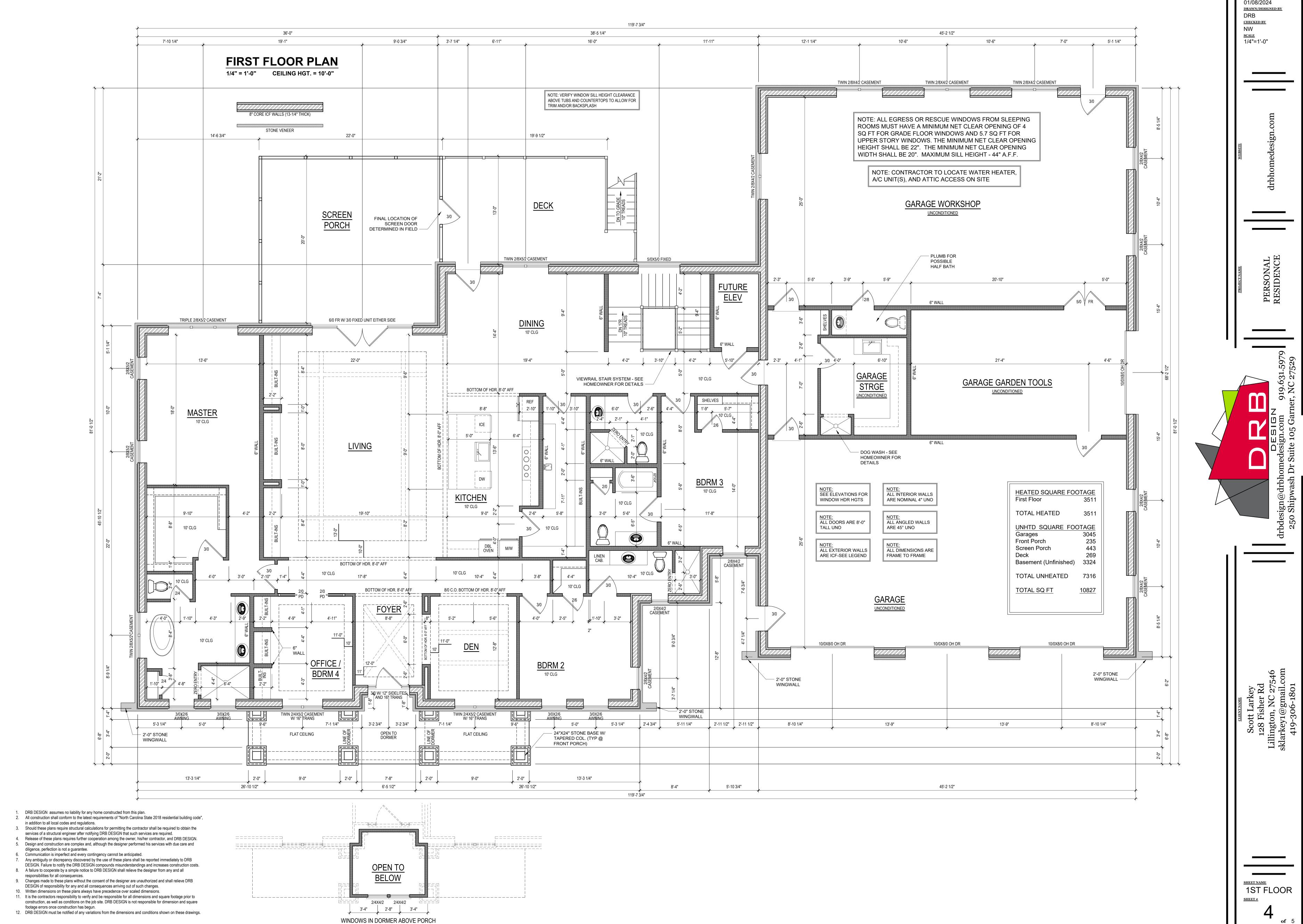
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01/08/2024 drawn/designed by

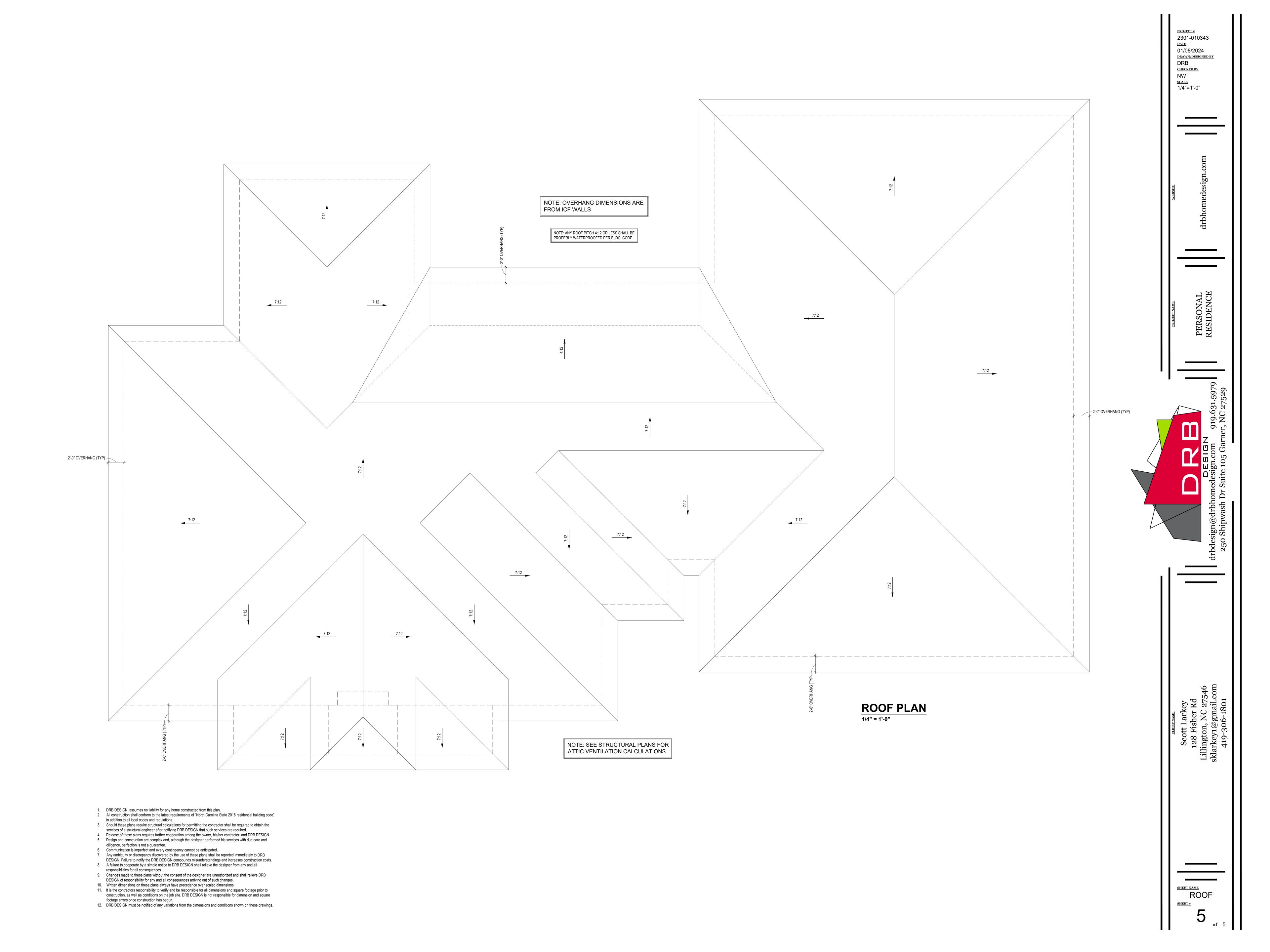
DRB checked by

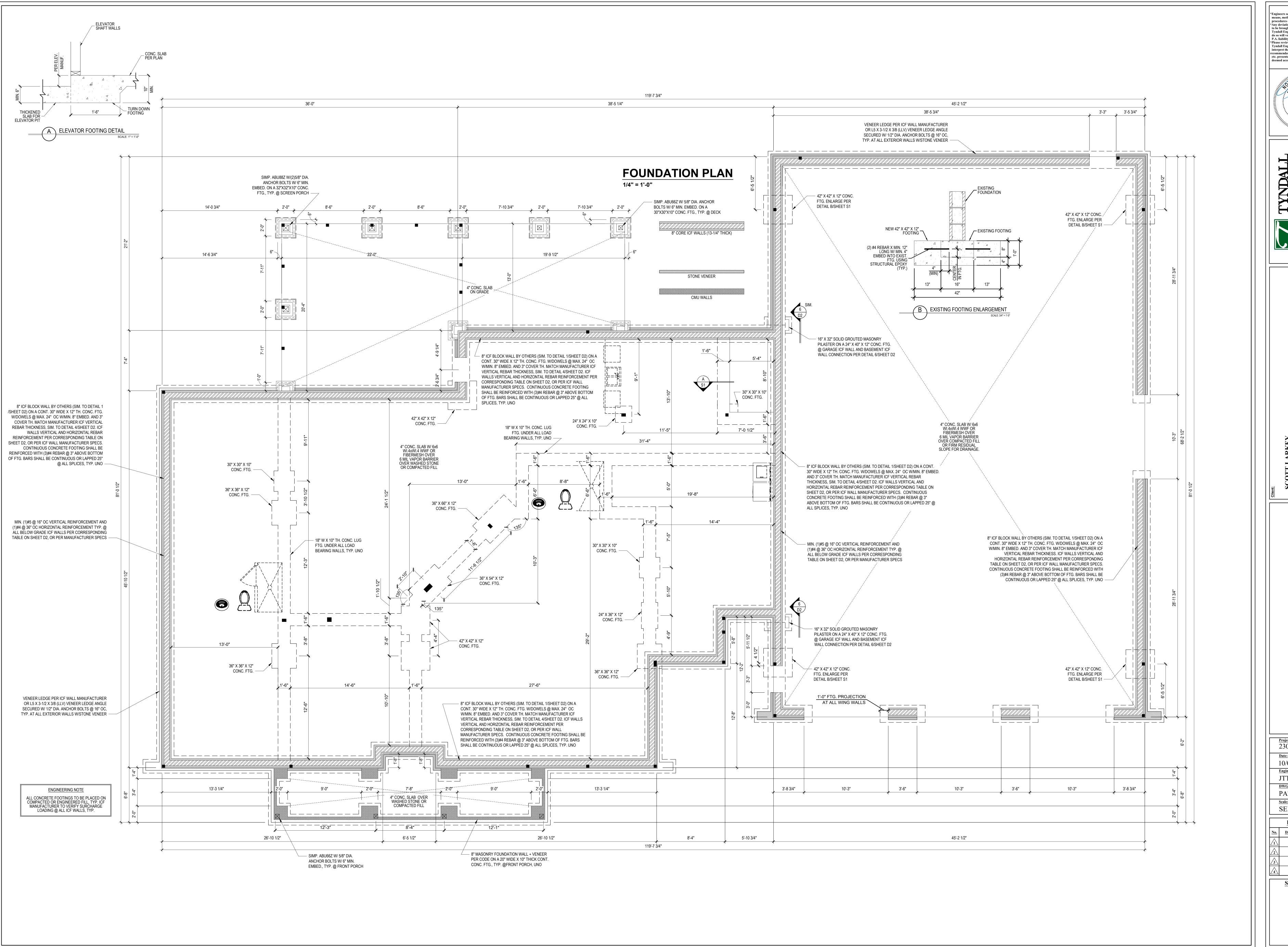
NW

<u>SCALE</u> 1/4"=1'-0"

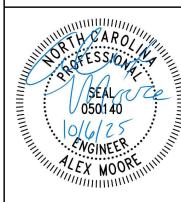


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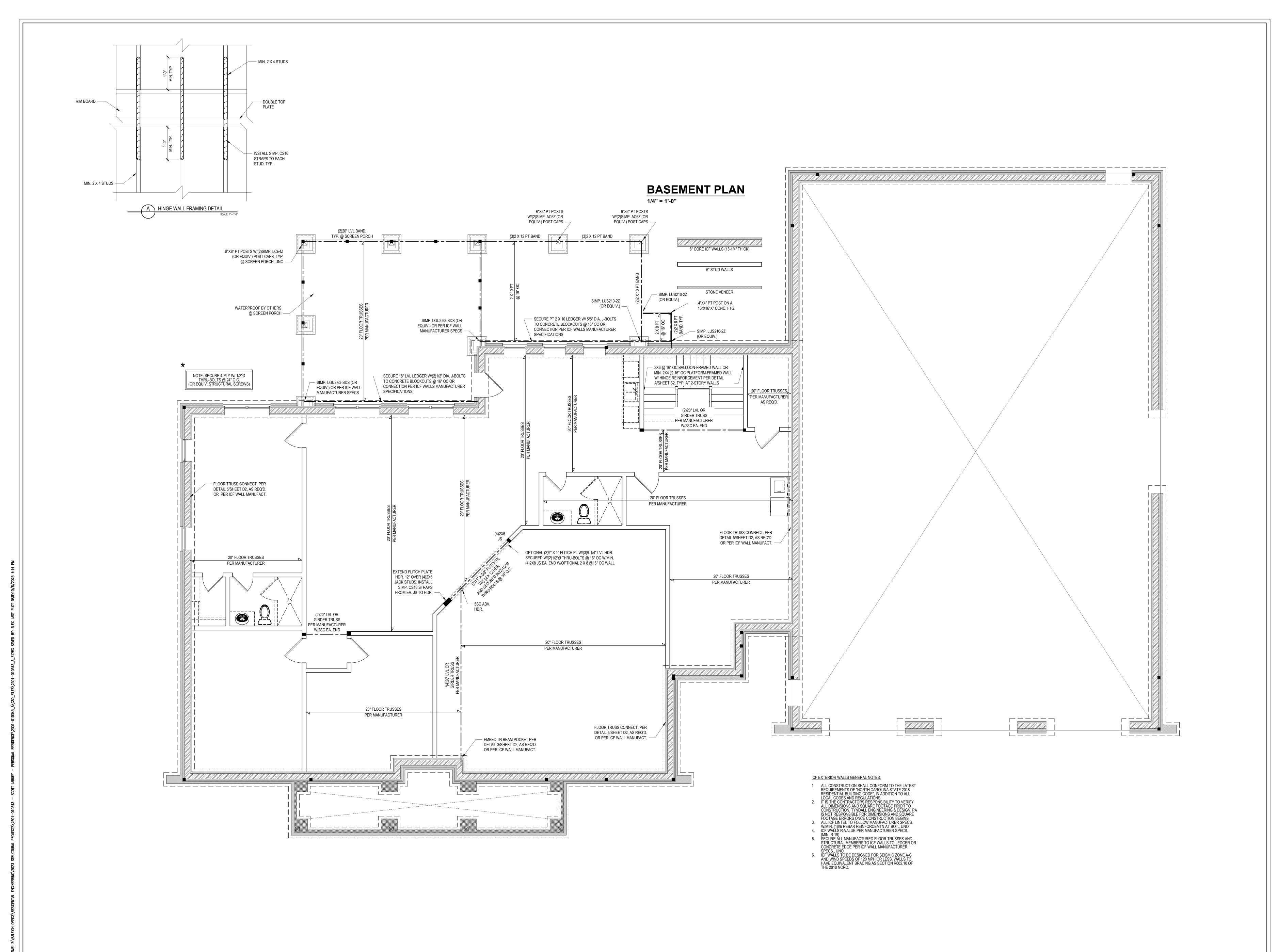
means, methods, techniques, sequences, procedures or safety precaution. *Any deviations or discrepancies on plans are to be brought to the immediate attention of Tyndall Engineering & Design, P.A. Failure t do so will void Tyndall Engineering & Design *Please review these documents carefully. Tyndall Engineering & Design, P.A. will interpret that all dimensions, recommendations, etc. presented in these documents were



2301-010343 A 10/06/2025 **Engineered By:** DWG. Checked By: SEE PLAN REVISIONS

No. Date:

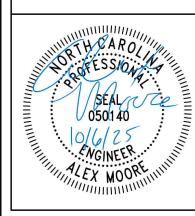
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REVISIONS No. Date:

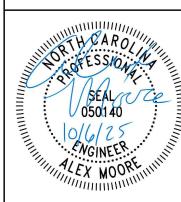
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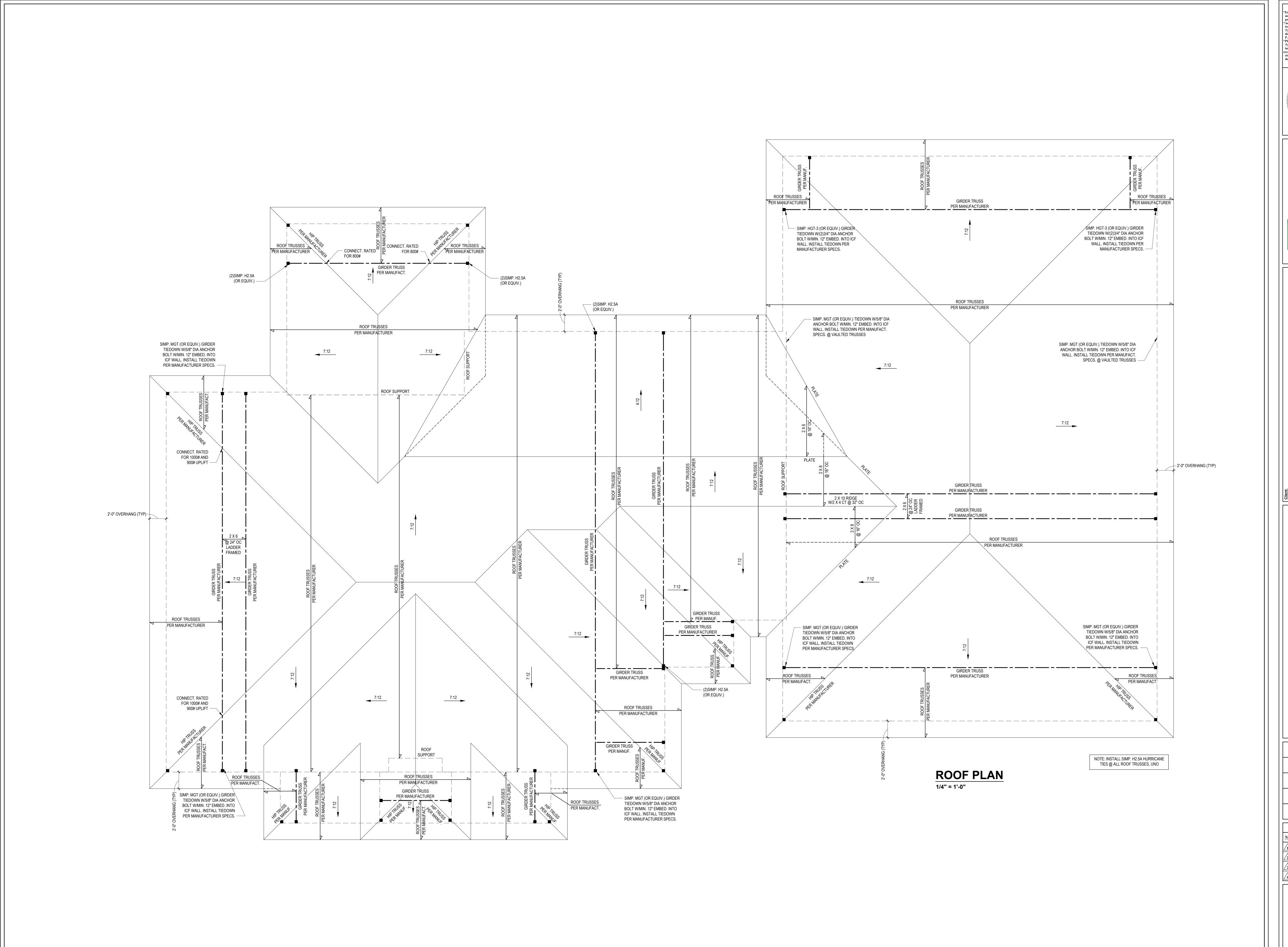


Project #: 2301-010343_A 10/06/2025 **Engineered By:** DWG. Checked By: PAT SEE PLAN REVISIONS

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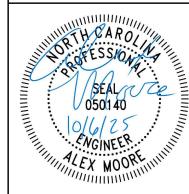
3 of 6



Engineers seal does not include construction means, methods, techniques, sequences, procedures or safety precaution.

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*Please review these documents carefully.
Tyndall Engineering & Design, P.A. will interpret that all dimensions, recommendations, etc. presented in these documents were deemed acceptable once construction begins



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REVISIONS

Sheet Number

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STRUCTURAL NOTES

ALL CONSTRUCTION SHALL CONFORM TO THE LATEST REQUIREMENTS OF "NORTH CAROLINA STATE 2018 RESIDENTIAL BUILDING CODE", IN ADDITION TO ALL LOCAL CODES AND REGULATIONS.

DESIGN LOADS:

	LIVE LOAD (PSF)	DEAD LOAD (PSF)	DEFLE	CTION	
	(1 01)	(1 01)	LL	TL	
ALL FLOORS	40	10	L/360	L/240	
ATTIC (w/ walk up stairs)	30	10	L/360	L/240	
ATTIC (pull down access)	20	10	L/240	L/180	
ATTIC (no access)	10	5	L/240	L/180	
EXTERNAL BALCONY	40	10	L/360	L/240	
ROOF	20	10	L/240	L/180	
ROOF TRUSS	20	20	L/240	L/180	
WIND LOAD		BASED ON 120 MPH (EXPOSURE B)			
SEISMIC	SEISMIC ZONES A, B & C				

- MINIMUM ALLOWABLE SOIL BEARING PRESSURE = 2000 PSF
- CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI AND A MAXIMUM SLUMP OF FIVE INCHES UNLESS NOTED OTHERWISE. (U.N.O.)
- MAXIMUM DEPTH OF UNBALANCED FILL AGAINST FOUNDATION WALLS TO BE LESS THAN 4'-0" WITHOUT USING SUFFICIENT WALL BRACING. REFER TO SECTION R404 OF 2018 NC BUILDING CODE FOR BACKFILL LIMITATIONS BASED ON WALL HEIGHT, WALL THICKNESS, SOIL TYPE, AND UNBALANCED BACKFILL HEIGHT.
- ALL FRAMING LUMBER SHALL BE SYP #2 (Fb = 800 PSI, BASED ON 2x10) UNO. ALL FRAMING LUMBER EXPOSED TO THE ELEMENTS SHALL BE TREATED MATERIAL. ALL LVL LUMBER TO BE 1.75" WIDE NOMINAL EACH SINGLE MEMBER AND Fb = 2600 PSI, E = 1.9M PSI (U.N.O.) ALL LSL LUMBER TO BE 3.5" WIDE NOMINAL EACH SINGLE MEMBER AND Fb = 2325 PSI, E = 1.6M PSI (U.N.O.) ALL PSL LUMBER TO BE 3.5" WIDE NOMINAL EACH SINGLE MEMBER AND Fb = 2400 PSI, E = 1.8M PSI (U.N.O.)
- ALL LOAD BEARING EXTERIOR HEADERS SHALL BE AT (2) 2x10. (U.N.O.) REFER TO TABLE R602.7(1) & (2) FOR JACK STUD REQUIREMENTS FOR HEADER SPANS FOR INTERIOR AND EXTERIOR LOAD CONDITIONS UNLESS SPECIFICALLY NOTED ON PLANS.
- ALL STRUCTURAL STEEL W-SHAPES (I-BEAMS) SHALL BE ASTM A992 GRADE 50. ALL STEEL ANGLES, PLATES, AND C-CHANNELS SHALL BE ASTM A36. ALL STEEL PIPE SHALL BE ASTM A53 GRADE B.
- STEEL BEAMS SHALL BE SUPPORTED AT EACH END WITH A MINIMUM BEARING LENGTH OF 3-1/2" AND FULL FLANGE WIDTH. PROVIDE SOLID BEARING FROM BEAM SUPPORT TO FOUNDATION. BEAMS SHALL BE ATTACHED TO EACH SUPPORT WITH TWO (2) LAG SCREWS (1/2"Ø x 4" LONG). LATERAL SUPPORT IS CONSIDERED ADEQUATE PROVIDED THE JOISTS ARE TOE NAILED TO THE SOLE PLATES, AND THE SOLE PLATES ARE NAILED OR BOLTED TO THE BEAM FLANGES @ 48" O.C.
- 10) PROVIDE ANCHOR BOLT PLACEMENT PER SECTION 403.1.6: 1/2"Ø ANCHOR BOLTS SPACED AT 6'-0" O.C. AND PLACED 12" FROM THE END OF EACH PLATE SECTION. ANCHOR BOLTS SHALL BE SPACED AT 3'-0" O.C. FOR BASEMENTS. ANCHOR BOLT SHALL EXTEND 7" INTO CONCRETE OR MASONRY. THE BOLTS SHALL BE LOCATED IN THE MIDDLE THIRD OF THE WIDTH OF THE PLATE. THERE SHALL BE A MINIMUM TWO ANCHOR BOLTS PER PLATE SECTION.
- 11) FOUNDATION DRAINAGE-DAMP PROOFING OR WATERPROOFING PER SECTION 405 AND 406 OF NC BUILDING CODE.
- 12) WALL AND ROOF CLADDING VALUES: WALL CLADDING SHALL BE DESIGNED FOR 28.0 POUNDS PER SQUARE FOOT (LBS/SQFT) OR GREATER POSITIVE AND NEGATIVE PRESSURE. ROOF VALUES BOTH POSITIVE AND NEGATIVE SHALL BE AS FOLLOWS: 39.0 LBS/SQFT FOR ROOF PITCHES 0/12 TO 1.5/12 36.0 LBS/SQFT FOR ROOF PITCHES 1.5/12 TO 6/12
- 13) FOR ROOF SLOPES FROM 2/12 THROUGH 4/12, BUILDER TO INSTALL 2 LAYERS OF 15# FELT PAPER.
- 14) REFER TO SECTION R602.3 FOR FRAMING OF ALL WALLS OVER 10'-0" IN HEIGHT.
- 15) PROVIDE CONTINUOUS SHEATHING PER SECTION 602.10.3 OF THE 2018 NCRC.
- 16) UPLIFT LOADS GREATER THAN 500# SHALL BE CONTINUOUSLY ANCHORED TO THE FOUNDATION.
- 17) REFER TO TABLE N1102.1 FOR PRESCRIPTIVE BUILDING ENVELOPE THERMAL COMPONENT CRITERIA.
- 18) PSL COLUMNS DESIGNED WITH MAXIMUM HEIGHT OF 9'-0" (U.N.O.)

18.0 LBS/SQFT FOR ROOF PITCHES 6/12 TO 12/12

**MEAN ROOF HEIGHT 30'-0" OR LESS

- 19) PROVIDE A MINIMUM OF 500# UPLIFT & LATERAL CONNECTION AT TOP AND BOTTOM OF PORCH COLUMNS. (U.N.O.)
- 20) MAXIMUM MASONRY PEIR HEIGHT SHALL NOT EXCEED FOUR TIMES ITS LEAST HORIZONTAL DIMENSION.
- 21) IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND SQUARE FOOTAGE PRIOR TO CONSTRUCTION. TYNDALL ENGINEERING & DESIGN, PA IS NOT RESPONSIBLE FOR DIMENSION OR SQUARE FOOTAGE ERRORS ONCE CONSTRUCTION BEGINS.

CLIMATE ZONES	FENESTRATION U-FACTOR	SKYLIGHT ^b U-FACTOR	GLAZED FENESTRATION SHGC ^{b,<u>k</u>}	CEILING ^m R-VALUE	WOOD FRAMED WALL R-VALUE	MASS WALL R-VALUE	FLOOR R-VALUE	BASEMENT ^{c,©} WALL R-VALUE	SLAB ^d R-VALUE AND DEPTH	CRAWL SPACE CWALL R-VALUE
3	0.35	0.55	0.30	38 or 30 cont	15 or 13 + 2.5	<u>5/13 or</u> <u>5/10 cont</u>	19	<u>5/13</u> ^f	0	5/13
4	0.35	0.55	0.30	38 or 30 cont	15 or 13 + <u>2.5</u> h	<u>5/13 or</u> <u>5/10 cont</u>	19	10/15	10	10/15

TABLE N1102.1 CLIMATE ZONES 3-5 NO SCALE \

0.55

- a. R-VALUES ARE MINIMUMS, U-FACTORS AND SHGC ARE MAXIMUMS, WHEN INSULATION IS INSTALLED IN A CAVITY WHICH IS LESS THAN THE LABEL OR DESIGN THICKNESS OF THE INSULATION, THE INSTALLED R-VALUE OF THE INSULATION SHALL NOT BE LESS THAN THE R-VALUE SPECIFIED IN THE TABLE.
- b. THE FENESTRATION U-FACTOR COLUMN EXCLUDED SKYLIGHTS. THE SOLAR HEAT GAIN COEFFICIENT (SHGC) COLUMN APPLIES TO ALL GLAZED FENESTRATION.
- c. "10/15" MEANS R-10 CONTINUOUS INSULATED SHEATHING ON THE INTERIOR OR EXTERIOR OF THE HOME
- OR R-15 CAVITY INSULATION AT THE INTERIOR OF THE BASEMENT WALL OR CRAWL SPACE WALL. $\hbox{d. } \underline{ \mbox{FOR MONOLITHIC SLABS, INSULATION SHALL BE APPLIED FROM THE INSPECTION GAP DOWNWARD TO THE BOTTOM } \\$ OF THE FOOTING OR A MAXIMUM OF 24" BELOW GRADE WHICHEVER IS LESS. FOR FLOATING SLABS, INSULATION
- SHALL EXTEND TO THE BOTTOM OF THE FOUNDATION WALL OR 24", WHICHEVER IS LESS. R-5 SHALL BE ADDED TO THE REQUIRED SLAB EDGE R-VALUES FOR HEATED SLABS.
- e. <u>DELETED</u> f. BASEMENT WALL INSULATION IS NOT REQUIRED IN WARM-HUMID LOCATIONS AS DEFINED BY FIGURE N1101.7 AND TABLE N1101.7.
- g. OR INSULATION SUFFICIENT TO FILL THE FRAMING CAVITY. R-19 MINIMUM. h. THE FIRST VALUE IS CAVITY INSULATION, THE SECOND VALUE IS CONTINUOUS INSULATION, SO "13+5" MEANS R-13 CAVITY INSULATION PLUS R-5 INSULATED SHEATHING. "15+3" MEANS R-15 CAVITY INSULATION. PLUS R-3 INSULATED SHEATHING. IF STRUCTURAL SHEATHING COVERS 25% OR LESS OF THE EXTERIOR, INSULATING SHEATHING IS NOT REQUIRED WHERE THE STRUCTURAL SHEATHING IS USED. IF STRUCTURAL SHEATHING COVERS MORE THAN 25 PERCENT
- OF THE EXTERIOR, SHALL BE SUPPLEMENTED WITH INSULATED SHEATHING OF AT LEAST R-2. "13 + 2.5" MEANS R-13 CAVITY
- INSULATION PLUS R-2.5 SHEATHING. i. FOR MASS WALLS, THE SECOND R-VALUE APPLIES WHEN MORE THAN HALF THE INSULATION IS ON THE INTERIOR MASS WALL. j. IN ADDITION TO THE EXEMPTION IN SECTION N1102.3.3, A MAXIMUM OF TWO GLAZED FENESTRATION PRODUCT ASSEMBLIES HAVING A U-FACTOR NO GREATER THAN 0.55 SHALL BE
- PERMITTED TO BE SUBSTITUTED FOR MINIMUM CODE COMPLIANT FENESTRATION PRODUCT ASSEMBLIES WITHOUT PENALTY. k. IN ADDITION TO THE EXEMPTION IN SECTION N1102.3.3, A MAXIMUM OF TWO GLAZED FENESTRATION PRODUCT ASSEMBLIES HAVING A SHGC NO GREATER THAN 0.70 SHALL BE PERMITTED TO BE SUBSTITUTED FOR MINIMUM CODE COMPLIANT FENESTRATION PRODUCT ASSEMBLIES WITHOUT PENALTY.
- R-30 SHALL BE DEEMED TO SATISFY THE CEILING INSULATION REQUIREMENT WHEREVER THE FULL HEIGHT OF UNCOMPRESSED R-30 INSULATION EXTENDS OVER THE WALL TOP PLA IT THE EAVES. OTHERWISE R-38 INSULATION IS REQUIRED WHERE ADEQUATE CLEARANCE EXISTS OR INSULATION MUST EXTEND TO EITHER THE INSULATION BAFFLE OR WITHIN 1 INCH
- m. TABLE VALUE REQUIRED EXCEPT FOR ROOF EDGE WHERE THE SPACE IS LIMITED BY THE PITCH OF THE ROOF; THERE THE INSULATION MUST FILL THE SPACE UP TO THE AIR BAFFLE.
- n. R -19 FIBERGLASS BATTS COMPRESSED AND INSTALLED IN A NOMINAL 2 × 6 FRAMING CAVITY IS DEEMED TO COMPLY. FIBERGLASS BATTS RATED R-19 OR HIGHER COMPRESSED AND INSTALLED IN A 2X4 WALL IS NOT DEEMED TO COMPLY.
- o. BASEMENT WALL MEETING THE MINIMUM MASS WALL SPECIFIC HEAT CONTENT REQUIREMENT MAY USE THE MASS WALL R-VALUE AS THE MINIMUM REQUIREMENT.

DEFINITIONS FOR COMMON ABBREVIATIONS

ALT	=	ALTERNATE	MAX	=	MAXIMUM
CANT	=	CANTILEVER	MIN	=	MINIMUM
CJ	=	CEILING JOIST	NOM	=	NOMINAL
CMU	=	CONCRETE MASONRY UNIT	O.C.	=	ON CENTER
COL	=	COLUMN	PL	=	POINT LOAD
CONC	=	CONCRETE	PT	=	PRESSURE TREATED
CONT	=	CONTINUOUS	REINF	=	REINFORCED
CT	=	COLLAR TIE	REQD	=	REQUIRED
DBL	=	DOUBLE	RJ	=	ROOF JOIST
DIA	=	DIAMETER	RS	=	ROOF SUPPORT
DJ	=	DOUBLE JOIST	SC	=	STUD COLUMN
DR	=	DOUBLE RAFTER	SCH	=	SCHEDULE
EA	=	EACH	SPEC	=	SPECIFIED
EE	=	EACH END	THK	=	THICK
FJ	=	FLOOR JOIST	TJ	=	TRIPLE JOIST
FND	=	FOUNDATION	TRTD	=	TREATED
FTG	=	FOOTING	TYP	=	TYPICAL
GALV	=	GALVANIZED	UNO	=	UNLESS NOTED OTHERWISE
HORIZ	=	HORIZONTAL	W	=	WIDE FLANGE BEAM
HT	=	HEIGHT	WWF	=	WELDED WIRE FABRIC
MANUF	=	MANUFACTURER	XJ	=	EXTRA JOIST

MAXIMUM HEIGHT OF DECK SUPPORT POSTS AS FOLLOWS:

POST SIZE	MAX. POST HEIGHT**
4 x 4	8'-0"
6 x 6	20'-0"
***	OVER 20'-0"

- * THIS TABLE IS BASED ON NO. 2 TREATED SOUTHERN PINE POSTS. MAXIMUM TRIBUTARY AREA IS BASED ON 128 TOTAL SQUARE FEET WHICH MAY BE LOCATED AT DIFFERENT LEVELS.
- FROM TOP OF FOOTING TO BOTTOM OF GIRDER *** DECKS WITH POST HEIGHTS OVER 20'-0" SHALL BE DESIGNED AND SEALED BY A PROFESSIONAL ENGINEER OR REGISTERED ARCHITECT.
- DECKS SHALL BE BRACED TO PROVIDE LATERAL STABILITY BY ONE OF THESE METHODS:
- A. THE DECK FLOOR HEIGHT IS LESS THAN 4'-0" AND THE DECK IS
- ABOVE. LATERAL BRACING IS NOT REQUIRED. B. 4 x 4 WOOD KNEE BRACES MAY BE PROVIDED ON EACH COLUMN IN BOTH DIRECTIONS. THE KNEE BRACES SHALL ATTACH TO EACH POST AT A POINT NOT LESS THAN 1/3 OF THE POST LENGTH FROM THE TOP OF THE POST, AND THE BRACES SHALL BE ANGLED BETWEEN 45° AND 60° FROM THE HORIZONTAL. KNEE BRACES SHALL BE BOLTED

ATTACHED TO THE STRUCTURE IN ACCORDANCE WITH SECTION (4)

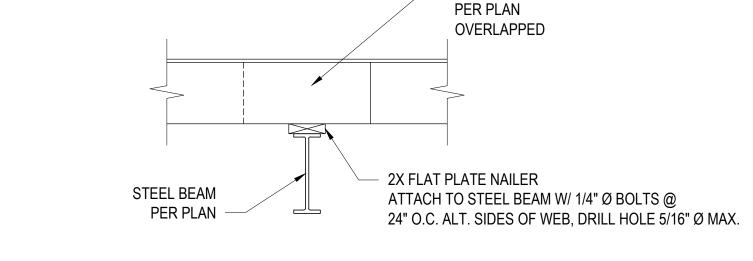
TO THE POST AND GIRDER WITH ONE 5/8"Ø HOT DIPPED GALVANIZED

BOLT AT EACH END OF THE BRACE. FOR FREESTANDING DECKS WITHOUT KNEE BRACES OR DIAGONAL BRACING, LATERAL STABILITY MAY BE PROVIDED BY EMBEDDING THE POSTS IN ACCORDANCE WITH THE FOLLOWING:

POST SIZE	MAX. TRIBUTARY AREA	MAX. POST HEIGHT	EMBEDMENT DEPTH	CONCRETE DIAMETER
4 x 4	48 SQ. FT.	4'-0"	2'-6"	1'-0"
6 x 6	120 SQ. FT.	6'-0"	3'-6"	1'-8"

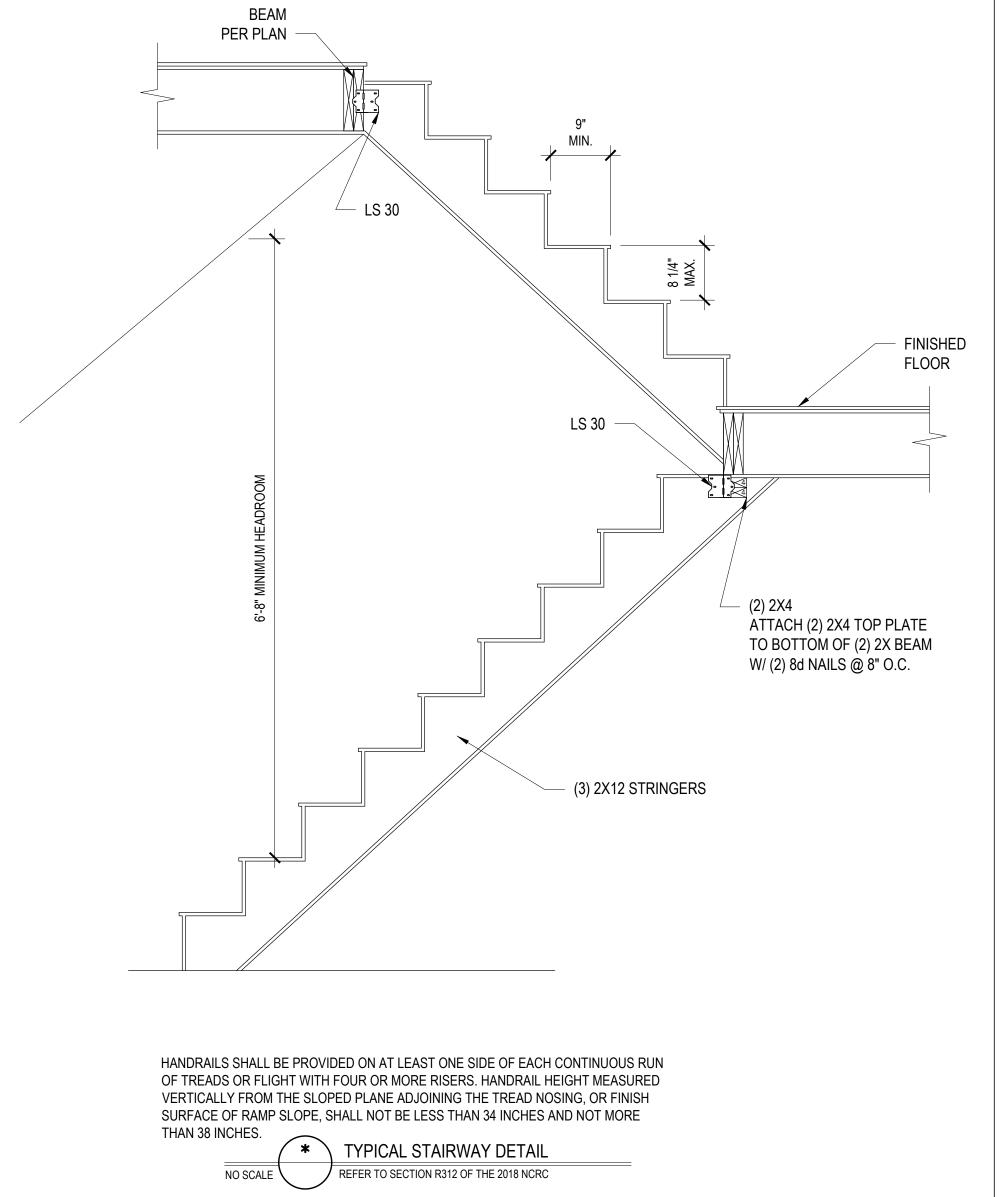
D. 2 x 6 DIAGONAL VERTICAL CROSS BRACING MAY BE PROVIDED IN TWO (2) PERPENDICULAR DIRECTIONS FOR FREESTANDING DECKS OR PARALLEL TO THE STRUCTURE AT THE EXTERIOR COLUMN LINE FOR ATTACHED DECKS. THE 2 x 6s SHALL BE ATTACHED TO THE POSTS WITH ONE 5/8"Ø HOT DIPPED GALVANIZED BOLT AT EACH END OF EACH BRACING MEMBER.

FOR EMBEDMENT OF PILES IN COASTAL REGIONS, SEE CHAPTER 46.



FLOOR JOISTS

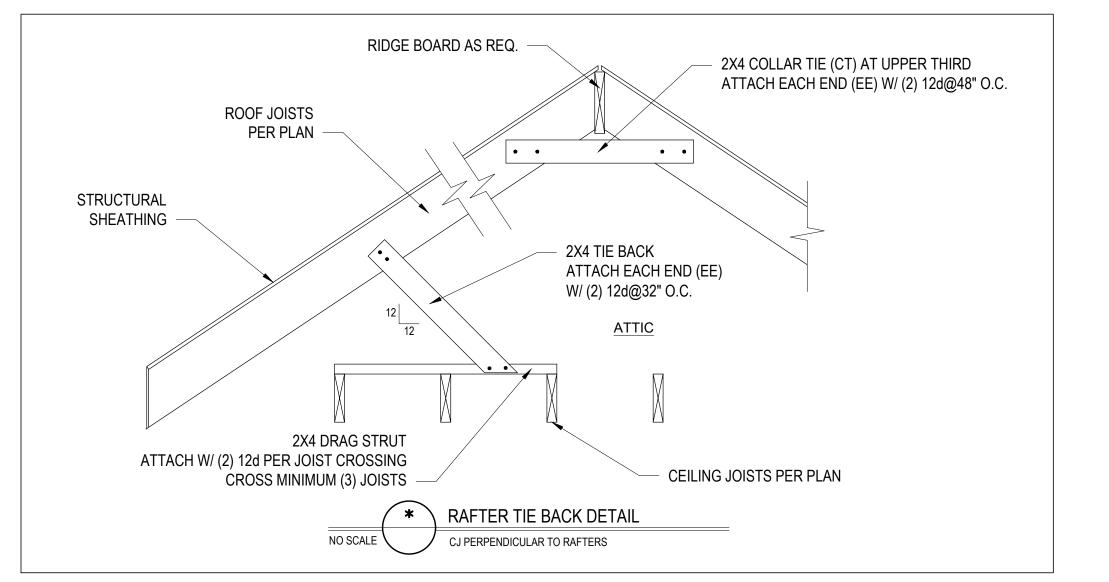


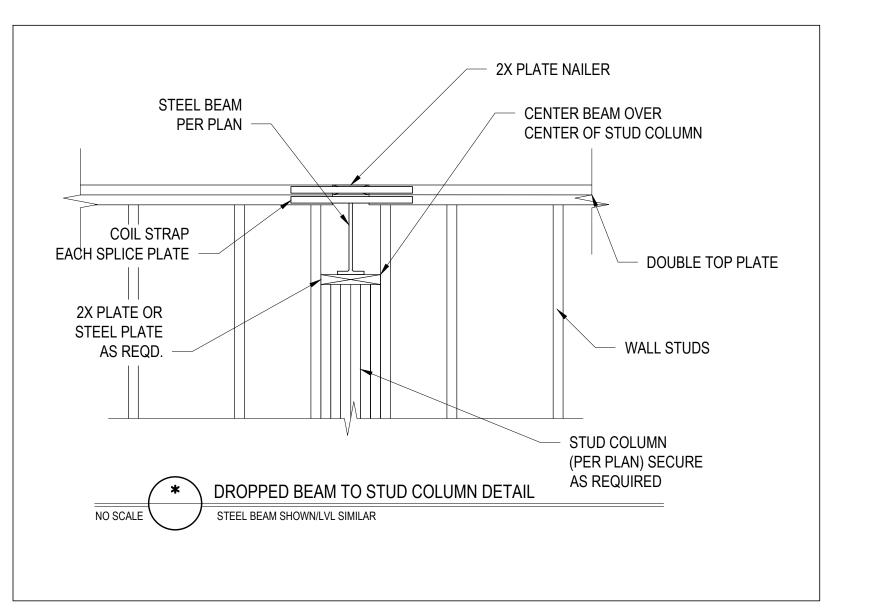


SIMPSON STRONG-TIE	USP STRUCTURAL CONNECTORS
PRODUCT NUMBER	PRODUCT NUMBER
A35	MPA1
ABE	PAE
CBSQ	CBSQ
CCQ	KCCQ
CMSTC16	CMSTC16
CS	RS
H1	RT15
H2.5A	RT7A
H10	RT16
HDQ8-SDS3	UPHD8
HDU2-SDS2.5	PHD2
HDU5-SDS2.5	PHD5
HETA	НТА
HGAM10KTA	HGAM
HHDQ14-SDS2.5	UPHD14
HTS	HTW
HTT	НТТ
HUS	HUS
LTA1	LPTA
LTHJA26	HJC26
LTP4	MP4F
LUS	JUS
MAS	FA3
MSTAM	MSTAM
PC	PCM
PHD-SDS3	PHD
SSP	RSPT6
STC	TR1
STHD	STAD

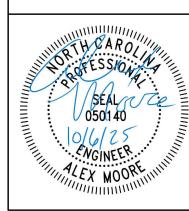
8129 SQ. FT. OF ATTIC / 300 = 27.10 SQ. FT. INLETS/OUTLETS REQUIRED

- 1) CALCULATION BASED ON VENTILATORS USED AT LEAST 3'-0" ABOVE THE COMICE VENTS WITH THE BALANCE OF VENTILATION PROVIDED
- 2) CATHEDRAL CEILINGS SHALL HAVE A 1" MINIMUM CLEARANCE BETWEEN
- THE BOTTOM OF THE ROOF DECK AND THE INSULATION. ATTIC VENTILATION CALCULATION





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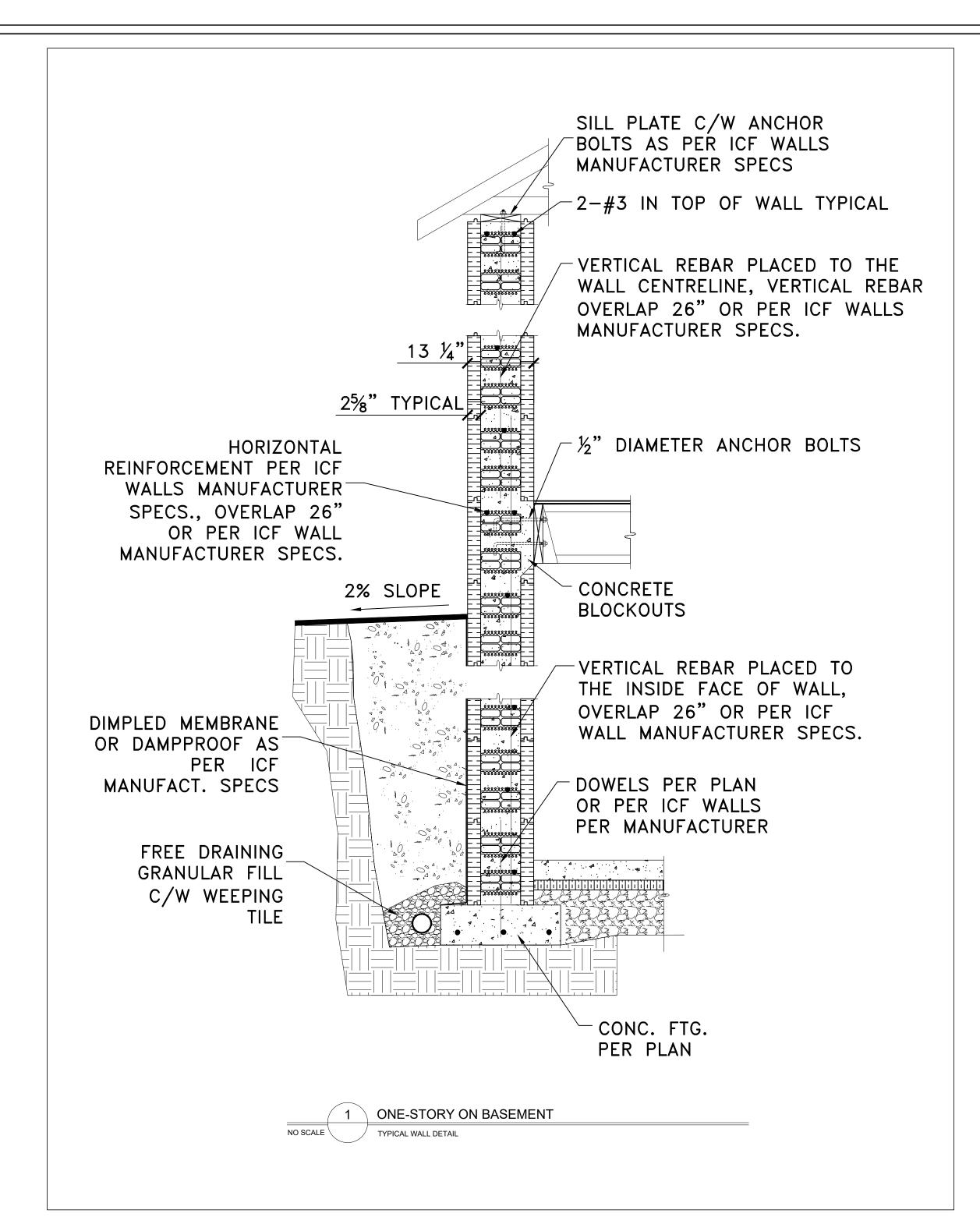


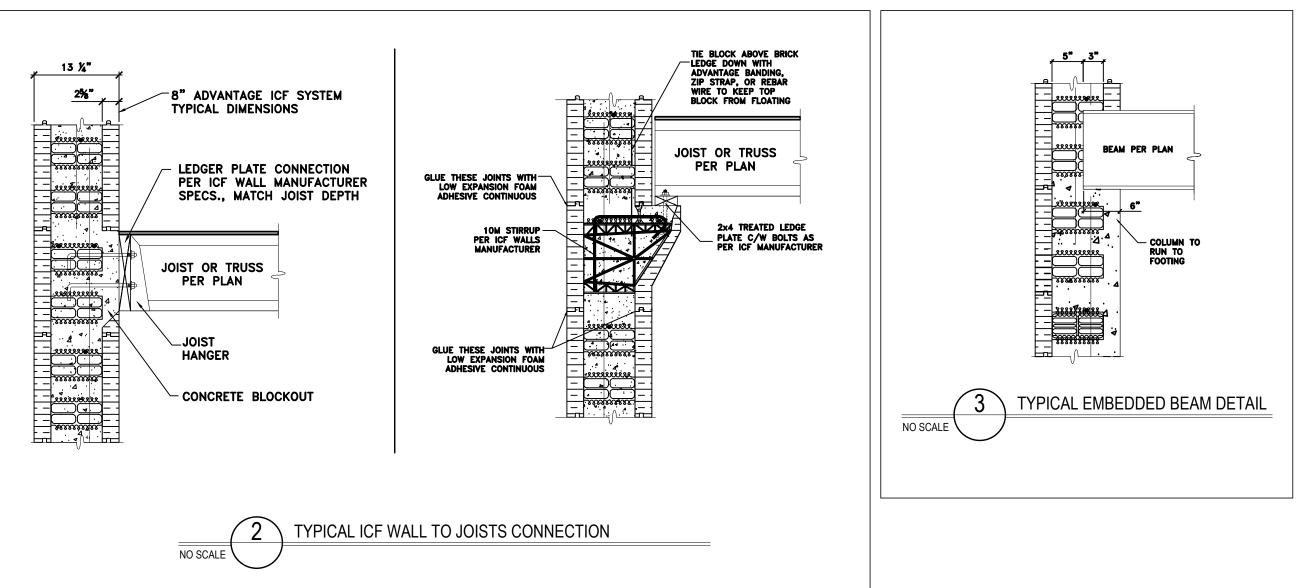
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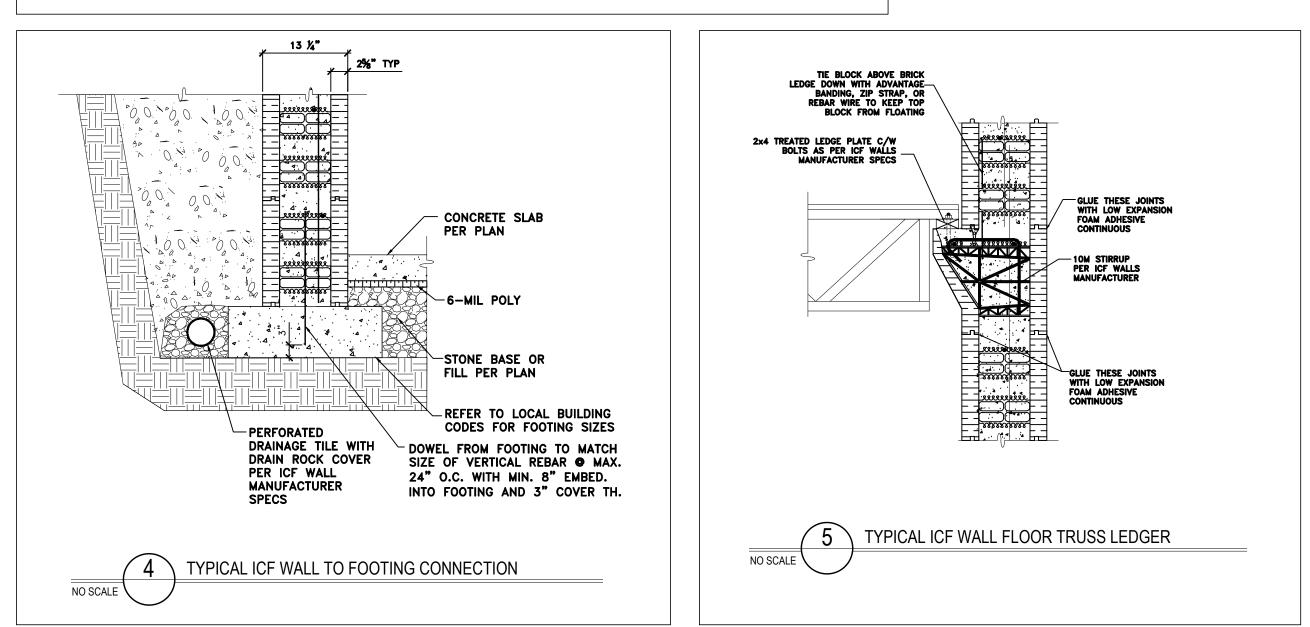
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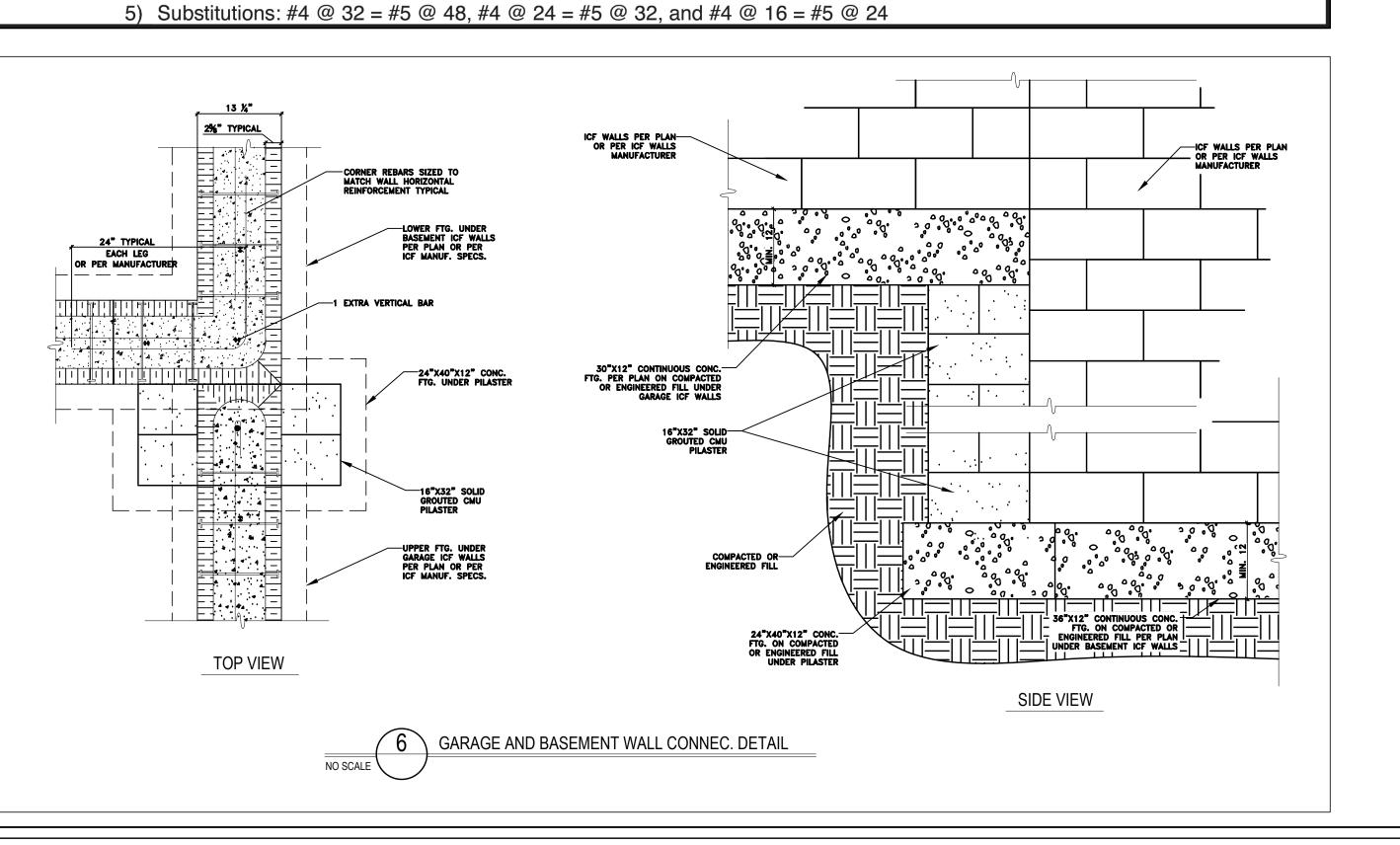




Wall		Horizontal Stee					
Height	120	All					
	Seismic Design Category A, B, or C						
	One Story Concrete Stru	ecture or Top Floor of 2	Story Concrete Structur	re Supporting Wood Fra	me Roof		
ft	4" Wall	6" Wall	8" Wall	10" Wall			
8	#4 @ 32" o.c.	#4 @ 48" o.c.	#4 @ 48" o.c.	#4 @ 48" o.c.	#4 @ 36" o.c.		
9	#4 @ 24" o.c.	#4 @ 40" o.c.	#4 @ 48" o.c.	#4 @ 48" o.c.	#4 @ 36" o.c.		
10	#4 @ 24" o.c.	#4 @ 32" o.c.	#4 @ 48" o.c.	#4 @ 48" o.c.	#4 @ 36" o.c.		
12	-	#4 @ 24" o.c.	#4 @ 32" o.c.	#4 @ 40" o.c.	#4 @ 36" o.c.		
14	-	#4 @ 16" o.c.	#4 @ 24" o.c.	#4 @ 24" o.c.	#4 @ 36" o.c.		
16	-	#5 @ 16" o.c.	#4 @ 16" o.c.	#4 @ 24" o.c.	#4 @ 36" o.c.		
	Lower Floor of 2 Story	Concrete Structure Su	pporting 2nd Story Woo	d Framed Walls, Floor, 8	& Roof		
ft	4" Wall	6" Wall	8" Wall	10" Wall			
8	#4 @ 24" o.c.	#4 @ 32" o.c.	#4 @ 48" o.c.	#4 @ 48" o.c.	#4 @ 36" o.c.		
9	#4 @ 16" o.c.	#4 @ 32" o.c.	#4 @ 40" o.c.	#4 @ 48" o.c.	#4 @ 36" o.c.		
10	#4 @ 16" o.c.	#4 @ 24" o.c.	#4 @ 40" o.c.	#4 @ 48" o.c.	#4 @ 36" o.c.		
12	-	#4 @ 16" o.c.	#4 @ 24" o.c.	#4 @ 32" o.c.	#4 @ 36" o.c.		
14	-	#5 @ 16" o.c.	#4 @ 16" o.c.	#4 @ 24" o.c.	#4 @ 36" o.c.		
16	-	#5 @ 8" o.c.	#5 @ 16" o.c.	#4 @ 16" o.c.	#4 @ 36" o.c.		
Lo	wer Floor of 2 Story Cond	rete Structure Supporti	ng 2nd Story Concrete	Walls and Wood Frame I	Floor & Roof		
ft	4" Wall	6" Wall	8" Wall	10" Wall			
8	#4 @ 24" o.c.	#4 @ 32" o.c.	#4 @ 48" o.c.	#4 @ 48" o.c.	#4 @ 36" o.c.		
9	#4 @ 16" o.c.	#4 @ 32" o.c.	#4 @ 40" o.c.	#4 @ 48" o.c.	#4 @ 36" o.c.		
10	#4 @ 16" o.c.	#4 @ 24" o.c.	#4 @ 40" o.c.	#4 @ 48" o.c.	#4 @ 36" o.c.		
12	-	#4 @ 16" o.c.	#4 @ 24" o.c.	#4 @ 32" o.c.	#4 @ 36" o.c.		
14	-	#5 @ 16" o.c.	#4 @ 16" o.c.	#4 @ 24" o.c.	#4 @ 36" o.c.		
16	_	#5 @ 8" o.c.	#5 @ 16" o.c.	#4 @ 16" o.c.	#4 @ 36" o.c.		

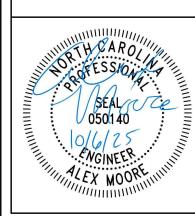
Wall Vertical Steel					Horizontal Steel
Height	120	All			
			Scenarios		
	One Story Concrete Stru	cture or Top Floor of 2	Story Concrete Structu	re Supporting Wood Frai	me Roof
ft	4" Wall	6" Wall	8" Wall	10" Wall	
8	#4 @ 32" o.c.	#4 @ 48" o.c.	#4 @ 48" o.c.	#4 @ 48" o.c.	#4 @ 36" o.c.
9	#4 @ 24" o.c.	#4 @ 40" o.c.	#4 @ 48" o.c.	#4 @ 48" o.c.	#4 @ 36" o.c.
10	#4 @ 24" o.c.	#4 @ 32" o.c.	#4 @ 48" o.c.	#4 @ 48" o.c.	#4 @ 36" o.c.
12	-	#4 @ 24" o.c.	#4 @ 32" o.c.	#4 @ 40" o.c.	#4 @ 36" o.c.
14	-	#4 @ 16" o.c.	#4 @ 24" o.c.	#4 @ 24" o.c.	#4 @ 36" o.c.
16	-	#5 @ 16" o.c.	#4 @ 16" o.c.	#4 @ 24" o.c.	#4 @ 36" o.c.
	Lower Floor of 2 Story	Concrete Structure Su	pporting 2nd Story Woo	od Framed Walls, Floor, 8	Roof
ft	4" Wall	6" Wall	8" Wall	10" Wall	
8	#4 @ 24" o.c.	#4 @ 32" o.c.	#4 @ 48" o.c.	#4 @ 48" o.c.	#4 @ 36" o.c.
9	#4 @ 16" o.c.	#4 @ 32" o.c.	#4 @ 40" o.c.	#4 @ 48" o.c.	#4 @ 36" o.c.
10	#4 @ 16" o.c.	#4 @ 24" o.c.	#4 @ 40" o.c.	#4 @ 48" o.c.	#4 @ 36" o.c.
12	-	#4 @ 16" o.c.	#4 @ 24" o.c.	#4 @ 32" o.c.	#4 @ 36" o.c.
14	-	#5 @ 16" o.c.	#4 @ 16" o.c.	#4 @ 24" o.c.	#4 @ 36" o.c.
16	-	#5 @ 8" o.c.	#5 @ 16" o.c.	#4 @ 16" o.c.	#4 @ 36" o.c.
Lov	ver Floor of 2 Story Cond	rete Structure Supporti	ng 2nd Story Concrete	Walls and Wood Frame F	loor & Roof
ft	4" Wall	6" Wall	8" Wall	10" Wall	
8	#4 @ 24" o.c.	#4 @ 32" o.c.	#4 @ 48" o.c.	#4 @ 48" o.c.	#4 @ 36" o.c.
9	#4 @ 16" o.c.	#4 @ 32" o.c.	#4 @ 40" o.c.	#4 @ 48" o.c.	#4 @ 36" o.c.
10	#4 @ 16" o.c.	#4 @ 24" o.c.	#4 @ 40" o.c.	#4 @ 48" o.c.	#4 @ 36" o.c.
12	-	#4 @ 16" o.c.	#4 @ 24" o.c.	#4 @ 32" o.c.	#4 @ 36" o.c.
14	-	#5 @ 16" o.c.	#4 @ 16" o.c.	#4 @ 24" o.c.	#4 @ 36" o.c.
16	-	#5 @ 8" o.c.	#5 @ 16" o.c.	#4 @ 16" o.c.	#4 @ 36" o.c.

- 1) Shaded data indicates reinforcing for estimating purposes only. Wall heights exceed IRC prescriptive limits. A local design professional engineer shall be consulted for additional review for these wall heights.
- 2) This table is to be used in conjunction with the "Design Limitations" prepared by Keystone Structural Solutions 3) Refer to the "Design Limitations" for information on Codes, construction methods, material specifications, design loads, additional wall reinforcing requirements around openings, minimum wall length, and additional design and
- 4) For Exposure C conditions with a 90 mph Basic Wind Speed, use the 120 mph tables.



means, methods, techniques, sequences, procedures or safety precaution.

*Any deviations or discrepancies on plans are to be brought to the immediate attention of Tyndall Engineering & Design, P.A. Failure do so will void Tyndall Engineering & Desig *Please review these documents carefully. Tyndall Engineering & Design, P.A. will interpret that all dimensions, recommendations, etc. presented in these documents were



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