

SMITH GARAGE



1/4" = 1'-0"

RIGHT ELEVATION

1/4" = 1'-0"

PROJECT # DRB2301-0387 DATE 10/27/2023 DRAWN/DESIGNED BY NW CHECKED BY DRB **SCALE** 1/4" = 1'-0" sign www. drbhomede .com SEE ROOF SHINGLES -PLAN ROOFING FELT RAFTER TIE BACK SHEATHING AS REQUIRED 12 **RAFTERS - SIZE** AS REQUIRED SEE INSULATION ROOF PLAN AS REQUIRED GARAGE CLG JOISTS - SIZE AS REQUIRED SHEATHING 1X FASCIA MIN. 1/2" MITH REVEAL ADJUST RAFTER END TAIL LENGTH AS 1/2" SOFFIT NEEDED IF CONT. VENT USING 2X 2X4 LOOKOUT LUMBER 1X4 FRIEZE BOARD 5 UNDERNEATH FASCIA BOARD HORIZONTAL SIDING A-7 CORNICE DETAIL NTS DRB DESIGN assumes no liability for any home constructed from this plan. 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

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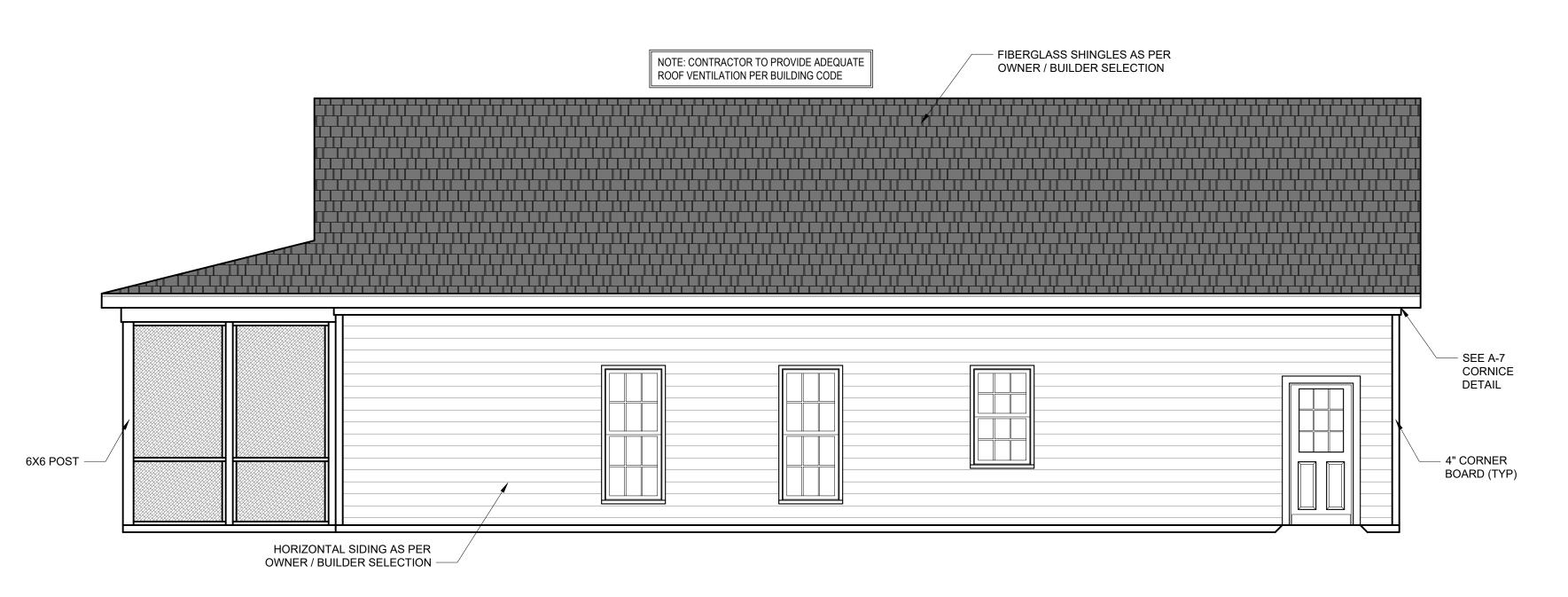
ELEVATIONS

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- services of a structural engineer after notifying DRB DESIGN that such services are required.
- 4. Release of these plans requires further cooperation among the owner, his/her contractor, and DRB DESIGN. 5. Design and construction are complex and, although the designer performed his services with due care and diligence, perfection is not a guarantee.
- 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. 8. A failure to cooperate by a simple notice to DRB DESIGN shall relieve the designer from any and all
- 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 footage errors once construction has begun.
- 12. DRB DESIGN must be notified of any variations from the dimensions and conditions shown on these drawings.





SMITH GARAGE



LEFT ELEVATION

1/4" = 1'-0"

PROJECT # DRB2301-0387 DATE 10/27/2023 DRAWN/DESIGNED BY NW CHECKED BY DRB SCALE 1/4" = 1'-0" www. drbhomedesign .com SEE ROOF SHINGLES -PLAN ROOFING FELT RAFTER TIE BACK SHEATHING AS REQUIRED 12 **RAFTERS - SIZE** AS REQUIRED SEE INSULATION ROOF PLAN AS REQUIRED GARAGE CLG JOISTS - SIZE AS REQUIRED SHEATHING 1X FASCIA MIN. 1/2" MITH REVEAL ADJUST RAFTER END TAIL LENGTH AS 1/2" SOFFIT -NEEDED IF CONT. VENT USING 2X 2X4 LOOKOUT LUMBER 1X4 FRIEZE BOARD 6 UNDERNEATH FASCIA BOARD HORIZONTAL SIDING 6 A-7 CORNICE DETAIL NTS 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.

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ELEVATIONS

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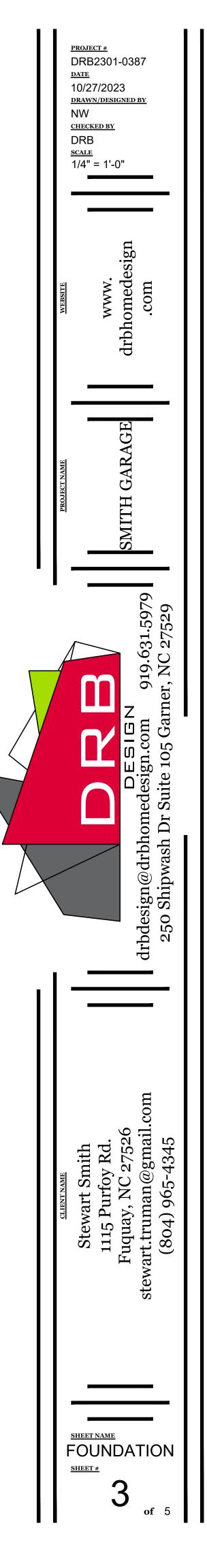
38'-0" 15'-0" 19'-0" 4'-0" بدر تأثير بين ريشي بينه بينه بهنه مشرق بندريها البلة الجد أبيب النب يبدأ بتد يهيد هيد هي 4" CONC. SLAB w/ 6x6 WI.4xWI.4 WWF or FIBERMESH 4" CONC. SLAB w/ 6x6 WI.4xWI.4 WWF or FIBERMESH OVER 6 MIL VAPOR BARRIER OVER COMPACTED OVER 6 MIL VAPOR BARRIER OVER COMPACTED FILL or FIRM RESIDUAL SLOPE FOR DRAINAGE. FILL or FIRM RESIDUAL SLOPE FOR DRAINAGE. 6'-9" ____ 4 4 4. 14. 4 4 4 4 4 4" CONC. SLAB w/ 6x6 WI.4xWI.4 WWF or FIBERMESH OVER 6 MIL VAPOR BARRIER OVER COMPACTED FILL or FIRM RESIDUAL. 4. 44 4. 4. ______ _ __ 4_ __ 4_ __ __ -44 3 I f 14'-0" 3'-0" 1'-6" 3'-0" 1'-6" 6'-0" 6'-0" 13'-4" 8'-8" 4 4 4" CONC. SLAB w/ 6x6 WI.4xWI.4 WWF or FIBERMESH OVER 6 MIL VAPOR BARRIER OVER COMPACTED FILL or FIRM RESIDUAL SLOPE FOR DRAINAGE. _____ 6" CURB 6" CURB 6" CURB 2'-8 1/2" 16'-3" 3'-1" 9'-3" 2'-8 1/2" 34'-0" 4'-0" 38'-0"

+

2'-2

FOUNDATION PLAN

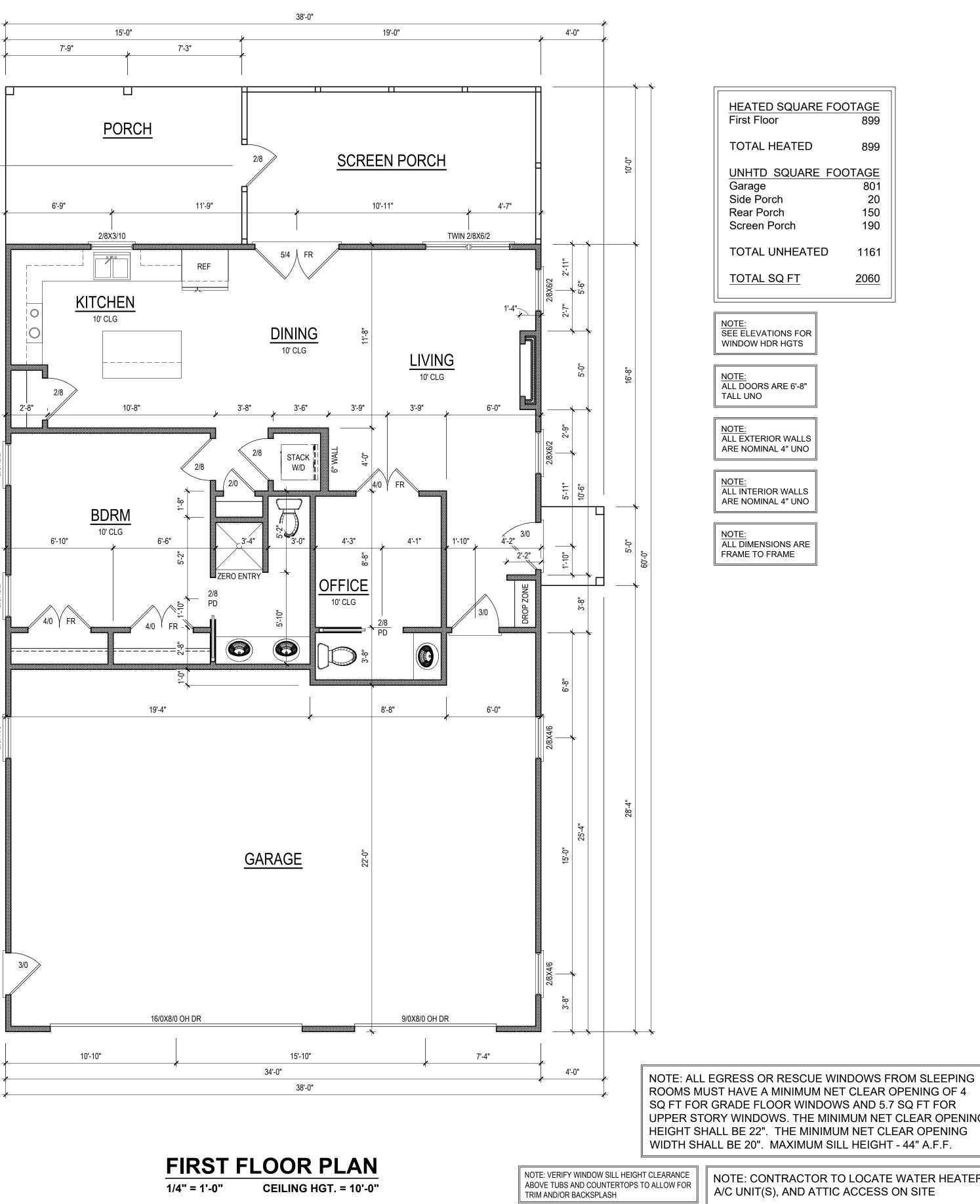
NOTE: SEE STRUCTURAL PLANS FOR ENGINEERING INFORMATION



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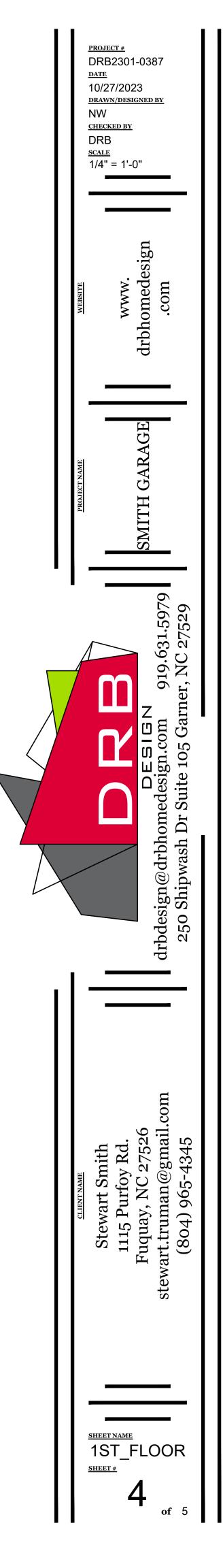
++4 i, 12'-8" 8'-4" 2'-0" 23'-0" 5'-0" * * * *



QUARE FC	0 <u>0TAGE</u> 899
ATED	899
QUARE FC	0OTAGE 801 20 150 190
HEATED	1161
<u>! FT</u>	<u>2060</u>

ROOMS MUST HAVE A MINIMUM NET CLEAR OPENING OF 4 SQ FT FOR GRADE FLOOR WINDOWS AND 5.7 SQ FT FOR UPPER STORY WINDOWS. THE MINIMUM NET CLEAR OPENING HEIGHT SHALL BE 22". THE MINIMUM NET CLEAR OPENING WIDTH SHALL BE 20". MAXIMUM SILL HEIGHT - 44" A.F.F.

> NOTE: CONTRACTOR TO LOCATE WATER HEATER, A/C UNIT(S), AND ATTIC ACCESS ON SITE

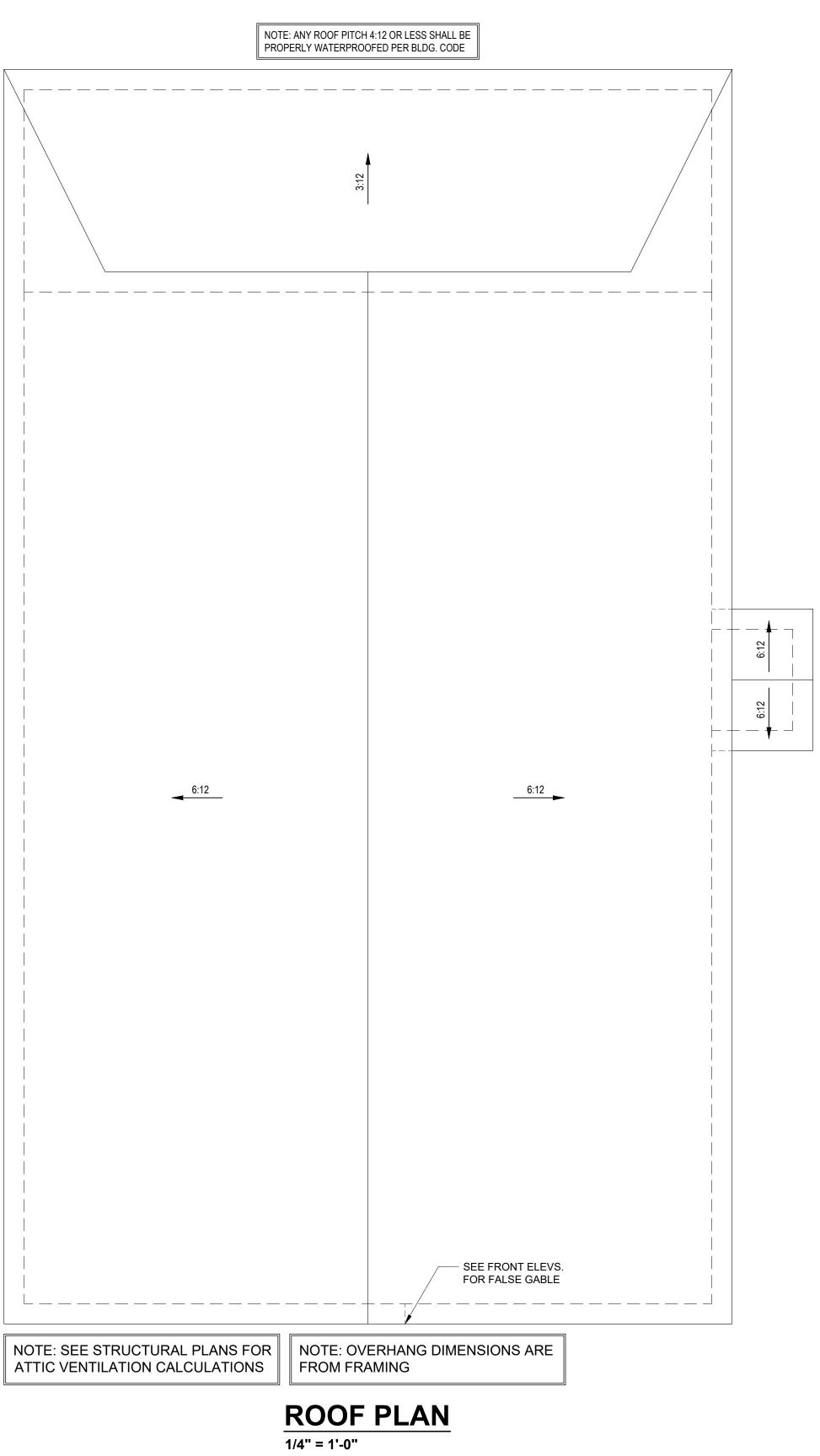


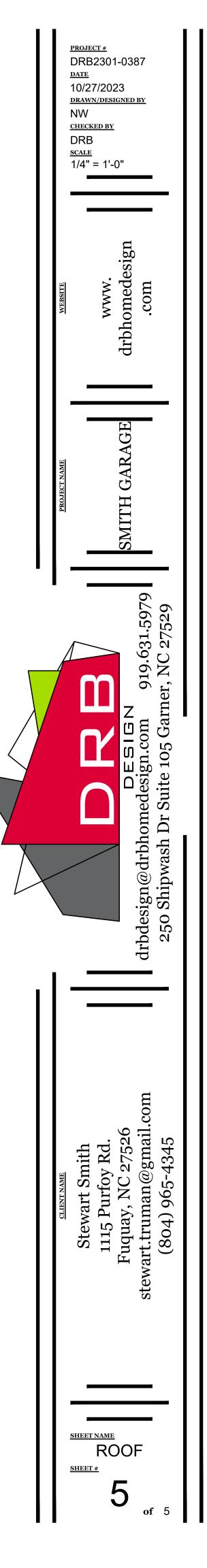
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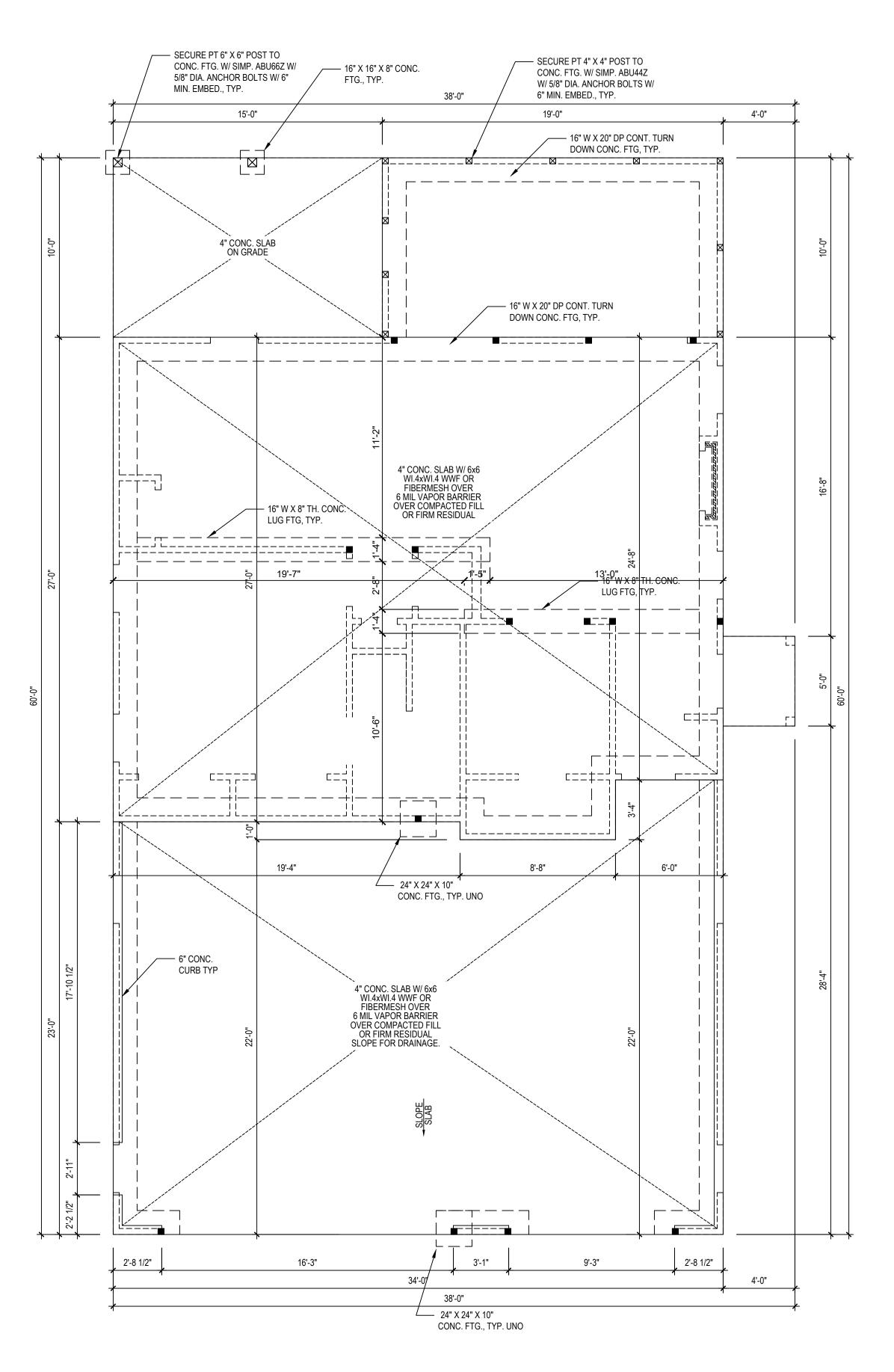
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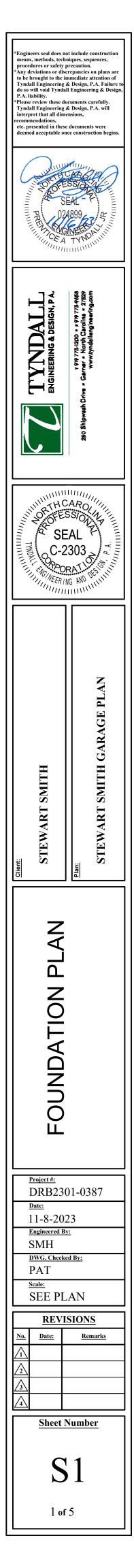


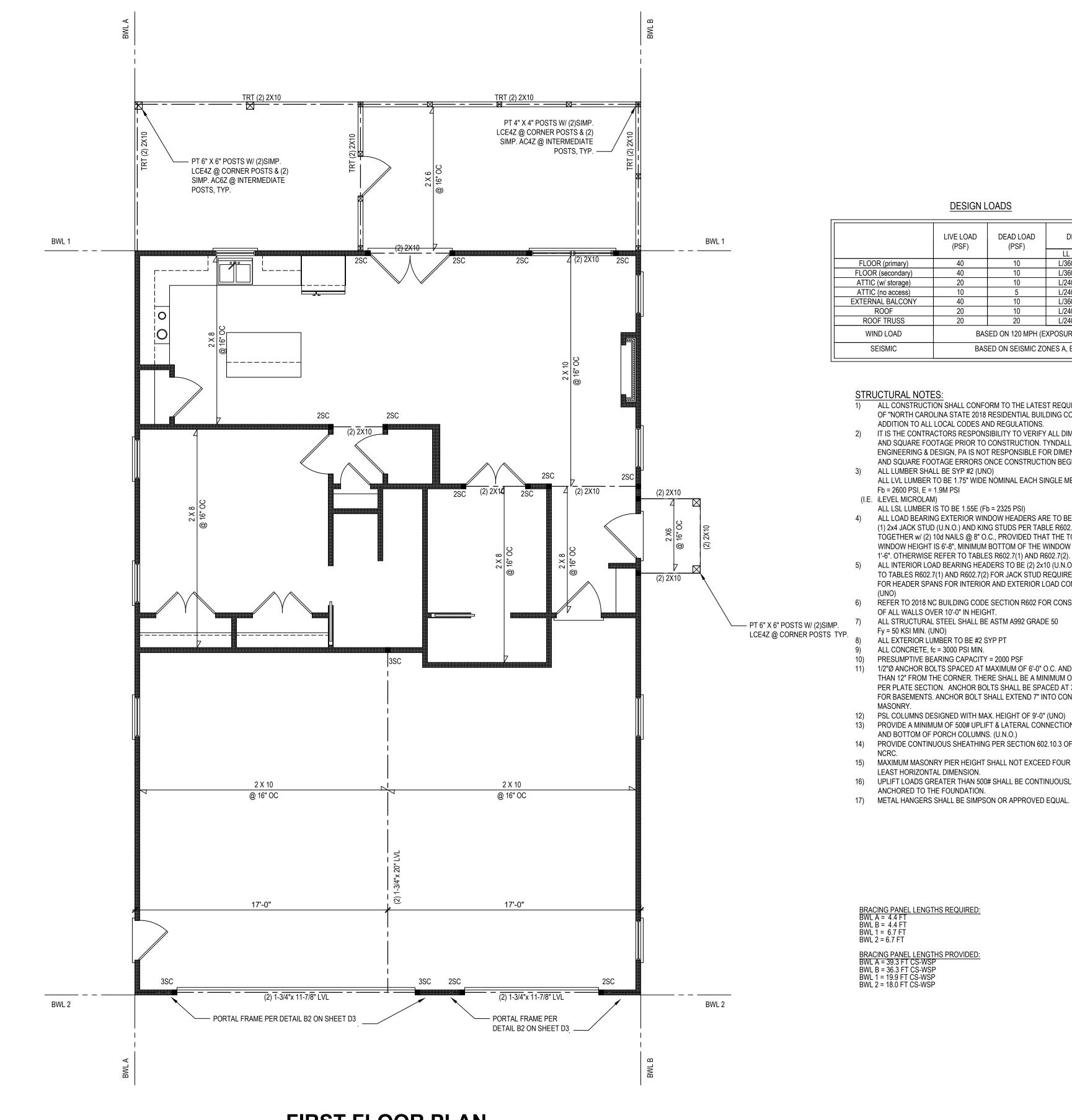






1/4" = 1'-0"





FIRST FLOOR PLAN

CEILING HGT. = 10'-0" 1/4" = 1'-0"

DESIGN LOADS

	LIVE LOAD (PSF)	DEAD LOAD (PSF)	DEFLECTION			
			LL	TL		
orimary)	40	10	L/360	L/240		
condary)	40	10	L/360	L/240		
storage)	20	10	L/240	L/180		
access)	10	5	L/240	L/180		
BALCONY	40	10	L/360	L/240		
)F	20	10	L/240	L/180		
RUSS	20	20	L/240	L/180		
OAD	BASED ON 120 MPH (EXPOSURE B)					
ЛIС	BASED ON SEISMIC ZONES A, B & C					

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

2) IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND SQUARE FOOTAGE PRIOR TO CONSTRUCTION. TYNDALL ENGINEERING & DESIGN, PA IS NOT RESPONSIBLE FOR DIMENSIONS

AND SQUARE FOOTAGE ERRORS ONCE CONSTRUCTION BEGINS. 3) ALL LUMBER SHALL BE SYP #2 (UNO) ALL LVL LUMBER TO BE 1.75" WIDE NOMINAL EACH SINGLE MEMBER AND

Fb = 2600 PSI, E = 1.9M PSI

ALL LSL LUMBER IS TO BE 1.55E (Fb = 2325 PSI)

4) ALL LOAD BEARING EXTERIOR WINDOW HEADERS ARE TO BE (2) 2x10 w/ (1) 2x4 JACK STUD (U.N.O.) AND KING STUDS PER TABLE R602.7.5, AND TOGETHER w/ (2) 10d NAILS @ 8" O.C., PROVIDED THAT THE TOP OF THE WINDOW HEIGHT IS 6'-8", MINIMUM BOTTOM OF THE WINDOW HEIGHT IS 1'-6". OTHERWISE REFER TO TABLES R602.7(1) AND R602.7(2). ALL INTERIOR LOAD BEARING HEADERS TO BE (2) 2x10 (U.N.O.) REFER TO TABLES R602.7(1) AND R602.7(2) FOR JACK STUD REQUIREMENTS FOR HEADER SPANS FOR INTERIOR AND EXTERIOR LOAD CONDITIONS

6) REFER TO 2018 NC BUILDING CODE SECTION R602 FOR CONSTRUCTION OF ALL WALLS OVER 10'-0" IN HEIGHT. ALL STRUCTURAL STEEL SHALL BE ASTM A992 GRADE 50

Fy = 50 KSI MIN. (UNO)

ALL EXTERIOR LUMBER TO BE #2 SYP PT ALL CONCRETE, fc = 3000 PSI MIN.

PRESUMPTIVE BEARING CAPACITY = 2000 PSF

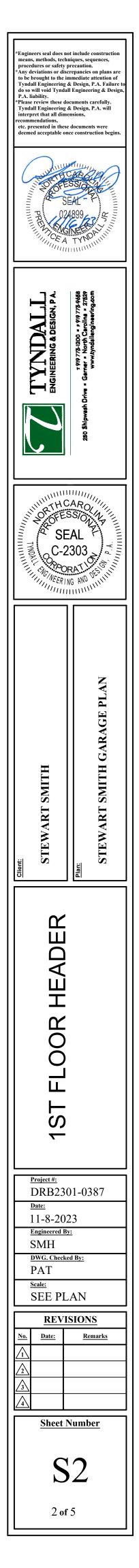
11) 1/2"Ø ANCHOR BOLTS SPACED AT MAXIMUM OF 6'-0" O.C. AND NOT MORE THAN 12" FROM THE CORNER. THERE SHALL BE A MINIMUM OF (2) BOLTS PER PLATE SECTION. ANCHOR BOLTS SHALL BE SPACED AT 3'-0" O.C. FOR BASEMENTS. ANCHOR BOLT SHALL EXTEND 7" INTO CONCRETE OR

12) PSL COLUMNS DESIGNED WITH MAX. HEIGHT OF 9'-0" (UNO) 13) PROVIDE A MINIMUM OF 500# UPLIFT & LATERAL CONNECTION AT TOP AND BOTTOM OF PORCH COLUMNS. (U.N.O.)

14) PROVIDE CONTINUOUS SHEATHING PER SECTION 602.10.3 OF THE 2018 15) MAXIMUM MASONRY PIER HEIGHT SHALL NOT EXCEED FOUR TIMES ITS

LEAST HORIZONTAL DIMENSION. 16) UPLIFT LOADS GREATER THAN 500# SHALL BE CONTINUOUSLY ANCHORED TO THE FOUNDATION.

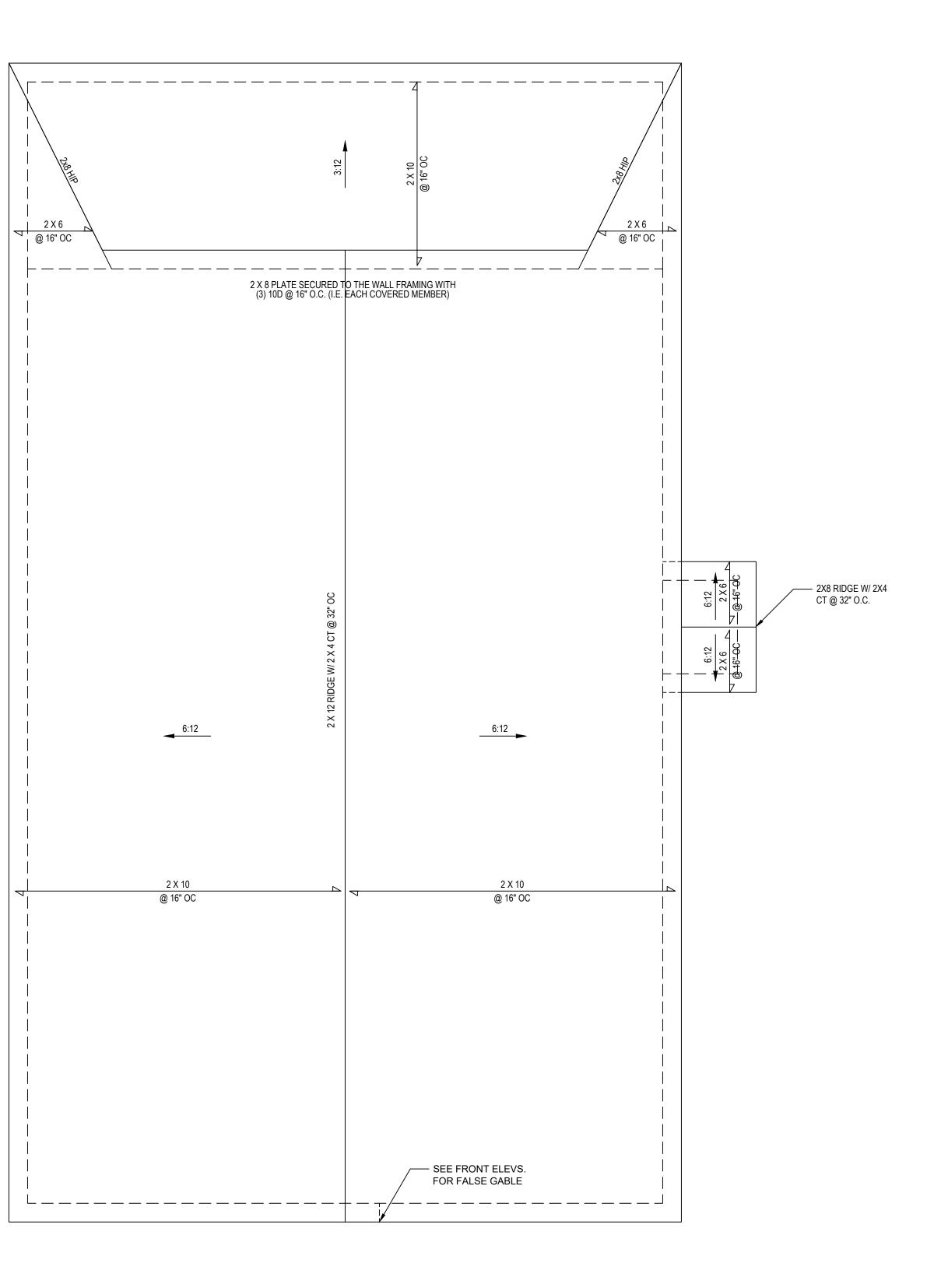
BRACING PANEL LENGTHS REQUIRED: BWL A = 4.4 FT BWL B = 4.4 FT BWL 1 = 6.7 FT BWL 2 = 6.7 FT BRACING PANEL LENGTHS PROVIDED: BWL A = 39.3 FT CS-WSP BWL B = 36.3 FT CS-WSP BWL 1 = 19.9 FT CS-WSP BWL 2 = 18.0 FT CS-WSP



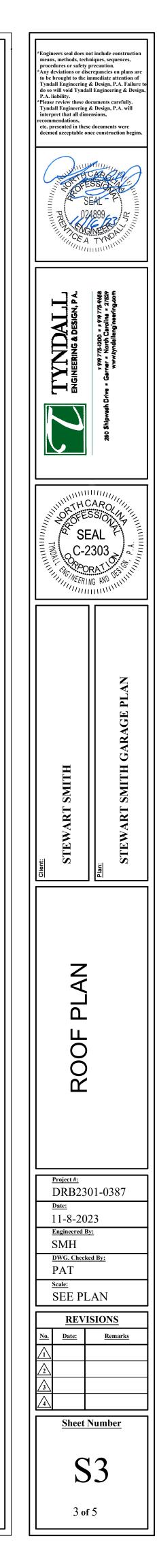
2232 SQ. FT. OF ATTIC / 300 = 7.44 SQ. FT. INLETS/OUTLETS REQUIRED
1) CALCULATION BASED ON VENTILATORS USED AT LEAST 3'-0" ABOVE THE COMICE VENTS WITH THE BALANCE OF VENTILATION PROVIDED BY EAVE VENTS.
2) CATHEDRAL CEILINGS SHALL HAVE A 1" MINIMUM CLEARANCE BETWEEN THE BOTTOM OF THE ROOF DECK AND THE INSULATION.

* ATTIC VENTILATION CALCULATION

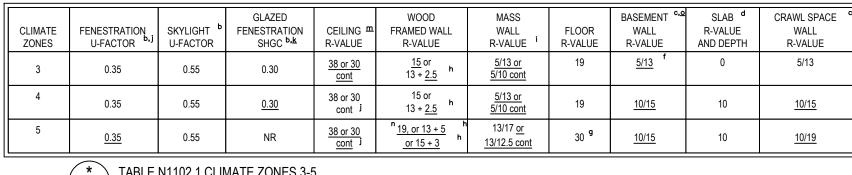
NO SCALE

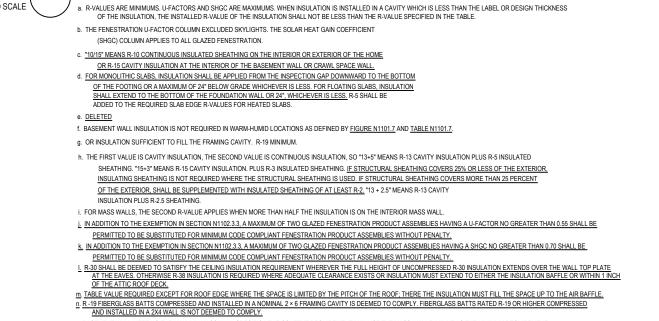


ROOF PLAN 1/4" = 1'-0"

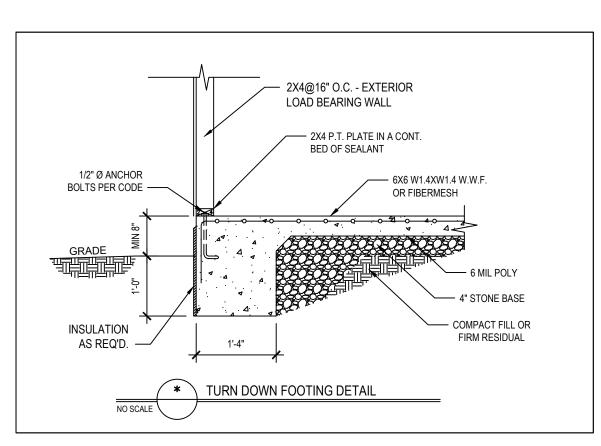


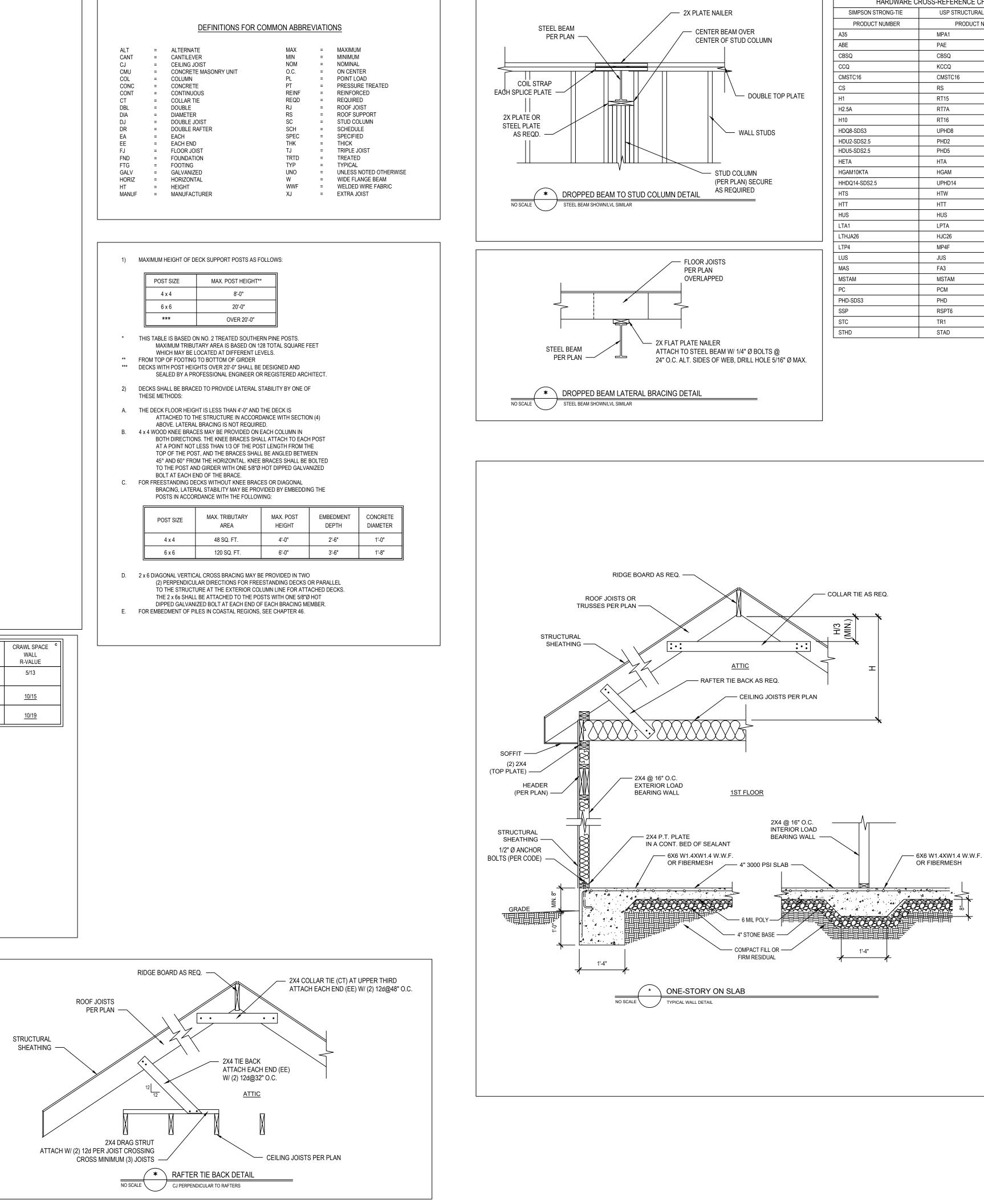
				STRU	UCTURAL N	IOTES									
,					NORTH CAROL	INA STATE	2018 RESIDEN	TIAL BUILDING	i						
	DDE", IN ADDITION TO	ALL LOCAL CODE	ES AND REGULATION	.											
2) DE	ESIGN LOADS:												ALT CANT	= =	ALTERNAT CANTILEVE
					LOAD SF)	DEAD LOA (PSF)	AD	DEFLE	CTION				CJ	=	CEILING JC
			51.0000		,	. ,		LL	TL				CMU COL	=	CONCRETE COLUMN
			_ FLOORS // walk up stairs)		40 30	10 10		L/360 L/360	L/240 L/240				CONC CONT	=	CONCRETE CONTINUO
		,	ull down access)		20	10		L/240	L/180	-1			CT	=	COLLAR TI
			C (no access)		10	5		L/240	L/180				DBL DIA	=	DOUBLE DIAMETER
			NAL BALCONY ROOF		40 20	10 10		L/360 L/240	L/240 L/180				DJ	=	DOUBLE JO
			OF TRUSS		20	20		L/240	L/180				DR EA	=	DOUBLE R/ EACH
		WI	ND LOAD		•	BASED ON	I 120 MPH (EXP	OSURE B)					EE FJ	= =	EACH END
			EISMIC			SEISM	MIC ZONES A. E	3.8.0					fj FND	=	FLOOR JOI
		0				02101		540					FTG GALV	=	Footing Galvanize
3) MI	NIMUM ALLOWABLE S	OIL BEARING PRE	ESSURE = 2000 PSF										HORIZ	=	HORIZONT
4) O(HT MANUF	=	HEIGHT MANUFAC1
,	ONCRETE SHALL HAVE		JAY COMPRESSIVE S	RENGTH OF 30	100 PSI AND A N	MAXIMUM SI	LUMP OF FIVE	INCHES							
5) M/	AXIMUM DEPTH OF UN			N WALLS TO BE	I ESS THAN 4'.			ICIENT WALL							
, BE	RACING. REFER TO SE	CTION R404 OF 2	018 NC BUILDING CO	DE FOR BACKFI											
TH	ICKNESS, SOIL TYPE,	AND UNBALANCI	ED BACKFILL HEIGHT												
	L FRAMING LUMBER S L FRAMING LUMBER E														
AL	L LVL LUMBER TO BE	1.75" WIDE NOMI	NAL EACH SINGLE ME	MBER AND Fb	= 2600 PSI, E =								1)	MAXIMUM H	EIGHT OF DE
	L LSL LUMBER TO BE														
							,							POST	SIZE
	L LOAD BEARING EXT EQUIREMENTS FOR HE													4 x	4
	L STRUCTURAL STEEL					-		-						6 x	6
Â	L STEEL ANGLES, PLA	TES, AND C-CHA	NNELS SHALL BE AS		.									**	*
AL	L STEEL PIPE SHALL E	BE ASTM A53 GRA	ADE B.												·
,	EEL BEAMS SHALL BE												*	THIS TABLE MAXI	IS BASED OI
	ROVIDE SOLID BEARING												**	WHIC	CH MAY BE L
SC	DLE PLATES, AND THE	SOLE PLATES AF	RE NAILED OR BOLTE	D TO THE BEAN	I FLANGES @ 4	48" O.C.								FROM TOP (DECKS WITH	
- /	ROVIDE ANCHOR BOLT													SEAL	LED BY A PRO
	IE END OF EACH PLAT (TEND 7" INTO CONCRI												,	DECKS SHA	
	IERE SHALL BE A MINI													THESE MET	HODS:
11) FC	11) FOUNDATION DRAINAGE-DAMP PROOFING OR WATERPROOFING PER SECTION 405 AND 406 OF NC BUILDING CODE.								Α.	THE DECK F					
12) W	ALL AND ROOF CLADD														ACHED TO TH VE. LATERAL
ν.	ALL CLADDING SHALL	BE DESIGNED FO			(LBS/SQFT) OF	R GREATER	R POSITIVE AND	NEGATIVE PR	RESSURE.				В.	4 x 4 WOOD	KNEE BRAC
	DOF VALUES BOTH PO 0 LBS/SQFT FOR ROO			OLLOWS:										AT A	POINT NOT
	.0 LBS/SQFT FOR ROO														OF THE POS AND 60° FROI
	.0 LBS/SQFT FOR ROO MEAN ROOF HEIGHT 30		10 12/12												HE POST AN
13) FC	R ROOF SLOPES FRO			STALL 2LAYER	S OF 15# FELT	PAPER							C.	FOR FREES	t at each ei Tanding de
,			,												CING, LATER. TS IN ACCOR
14) RE	EFER TO SECTION R60	2.3 FOR FRAMIN	G OF ALL WALLS OVE	R 10'-0" IN HEIG	HT.										
15) PF	ROVIDE CONTINUOUS	SHEATHING PER	SECTION 602.10.3 OF	THE 2018 NCR	C.									POS	ST SIZE
16) UF	PLIFT LOADS GREATER	R THAN 500# SHA	LL BE CONTINUOUSL	Y ANCHORED T	O THE FOUND	ATION.									I UILL
17) RE	EFER TO TABLE N1102.	1 FOR PRESCRIF	PTIVE BUILDING ENVE		L COMPONENT	CRITERIA.								4	x 4
/ 10) DC														6	x 6
,	SL COLUMNS DESIGNE		,	,										L 	I
19) PF	ROVIDE A MINIMUM OF	500# UPLIFT & L/	ATERAL CONNECTION	NAT TOP AND B	SOTTOM OF PO	RCH COLUI	MNS. (U.N.O.)						D.	2 x 6 DIAGOI	
20) M/	AXIMUM MASONRY PEI	R HEIGHT SHALL	NOT EXCEED FOUR	TIMES ITS LEAS	ST HORIZONTA	L DIMENSIC	ON.							()	ERPENDICUL HE STRUCTU
21) IT	IS THE CONTRACTORS	S RESPONSIBILIT	Y TO VERIFY ALL DIM	ENSIONS AND	SQUARE FOOT	AGE PRIOR	R TO CONSTRU	CTION.							2 x 6s SHALL ED GALVANI
TY	NDALL ENGINEERING	& DESIGN, PA IS	NOT RESPONSIBLE F	OR DIMENSION	I OR SQUARE F	OOTAGE E	RRORS ONCE	CONSTRUCTIO	ON BEGINS.				E.	FOR EMBED	
			GLAZED		WOOD		MASS		BASEMENT C,		CRAWL SPACE ^C	║ │ └──			
CLIMATE ZONES	FENESTRATION U-FACTOR	SKYLIGHT ^D U-FACTOR	FENESTRATION SHGC ^{b,k}	CEILING ^m R-VALUE	FRAMED W/ R-VALUE		WALL R-VALUE ⁱ	FLOOR R-VALUE	WALL R-VALUE	R-VALUE AND DEPTH	WALL R-VALUE				
				38 or 30	<u>15</u> or		5/13 or	19	5/13 f	0	5/13				
3	0.35	0.55	0.30	<u>cont</u>	1 <u>3</u> + <u>2.5</u>	n	5/10 cont								
4	0.35	0.55	0.30	38 or 30	15 or	h	<u>5/13 or</u> 5/10 cont	19	10/15	10	10/15				
				cont J	13 + <u>2.5</u> ⁿ <u>19, or 13 +</u>		5/10 cont 13/17 or								
5	<u>0.35</u>	0.55	NR	<u>38 or 30</u> <u>cont</u> j	<u>19, or 13 +</u> or 15 + 3		<u>13/12.5 cont</u>	30 ^g	<u>10/15</u>	10	10/19				
L		N11400 4 01 ''						<u>.</u>	1			L .			
NO SCAL	_()		MATE ZONES 3-		INCTALLED IN A TH				,						
NO SUAL	OF THE	E INSULATION, THE INSTA	DRS AND SHGC ARE MAXIMUMS ALLED R-VALUE OF THE INSULA	TION SHALL NOT BE LE	SS THAN THE R-VALUE			CESIGN (HICKNESS	,						
			LUMN EXCLUDED SKYLIGHTS. T LL GLAZED FENESTRATION.	HE SOLAR HEAT GAIN (JUEFFICIENT										
			NSULATED SHEATHING ON THE												
	d. FOR MONO	LITHIC SLABS, INSULATION	ON SHALL BE APPLIED FROM TH I OF 24" BELOW GRADE WHICHE	E INSPECTION GAP DO	WNWARD TO THE BO										
	SHALL E	XTEND TO THE BOTTOM	OF THE FOUNDATION WALL OR EDGE R-VALUES FOR HEATED S	24", WHICHEVER IS LE											
	e. <u>DELETED</u>														



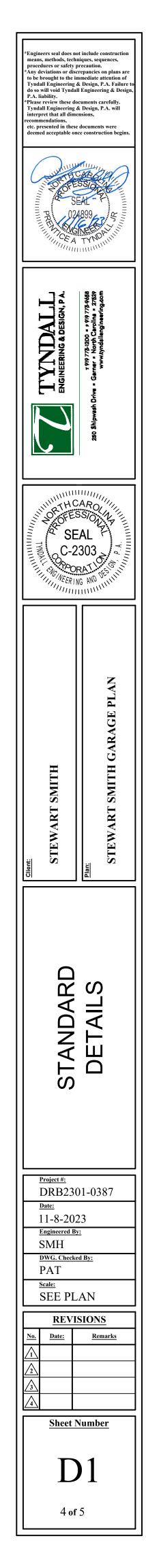


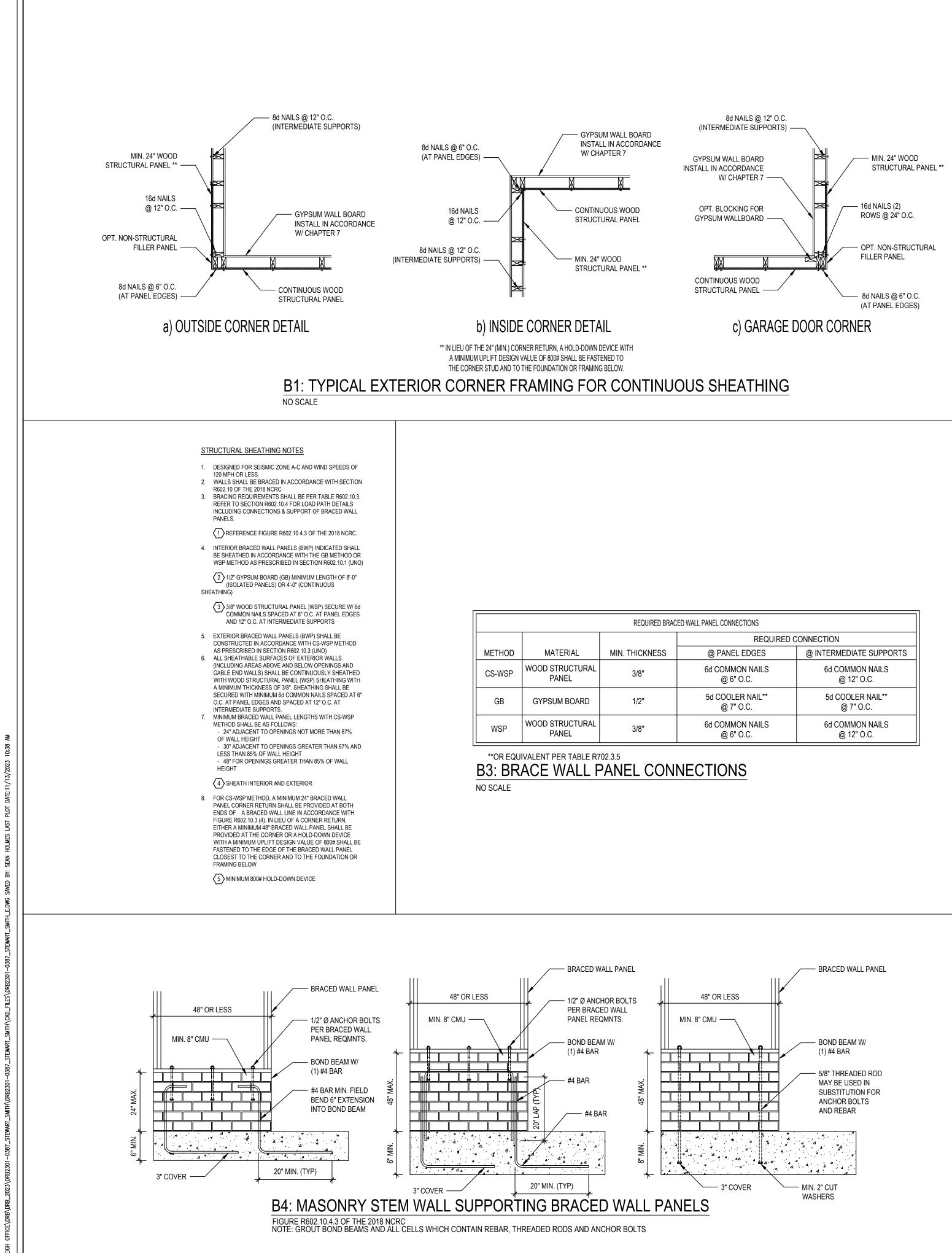
o. BASEMENT WALL MEETING THE MINIMUM MASS WALL SPECIFIC HEAT CONTENT REQUIREMENT MAY USE THE MASS WALL R-VALUE AS THE MINIMUM REQUIREMENT.





STRONG-TIE	USP STRUCTURAL CONNECTORS
CT NUMBER	PRODUCT NUMBER
	MPA1
	PAE
	CBSQ
	KCCQ
	CMSTC16
	RS
	RT15
	RT7A
	RT16
	UPHD8
	PHD2
	PHD5
	HTA
	HGAM
.5	UPHD14
	HTW
	HTT
	HUS
	LPTA
	HJC26
	MP4F
	JUS
	FA3
	MSTAM
	PCM
	PHD
	RSPT6
	TR1
	STAD





CONNECTIONS					
REQUIRED CONNECTION					
PANEL EDGES	@ INTERMEDIATE SUPPORTS				
OMMON NAILS	6d COMMON NAILS				
@ 6" O.C.	@ 12" O.C.				
000LER NAIL**	5d COOLER NAIL**				
@ 7" 0.C.	@ 7" O.C.				
OMMON NAILS	6d COMMON NAILS				
@ 6" O.C.	@ 12" O.C.				

