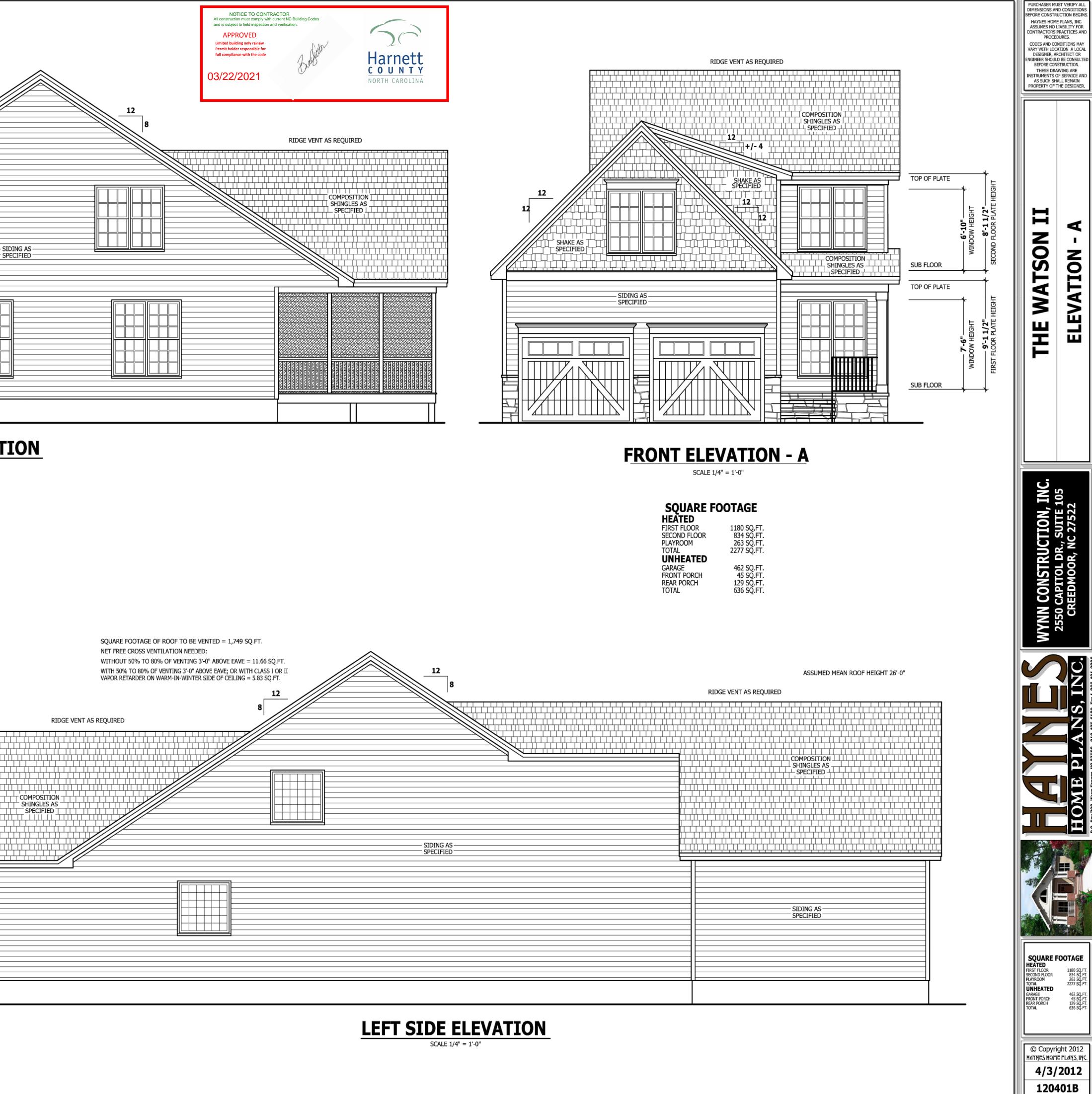
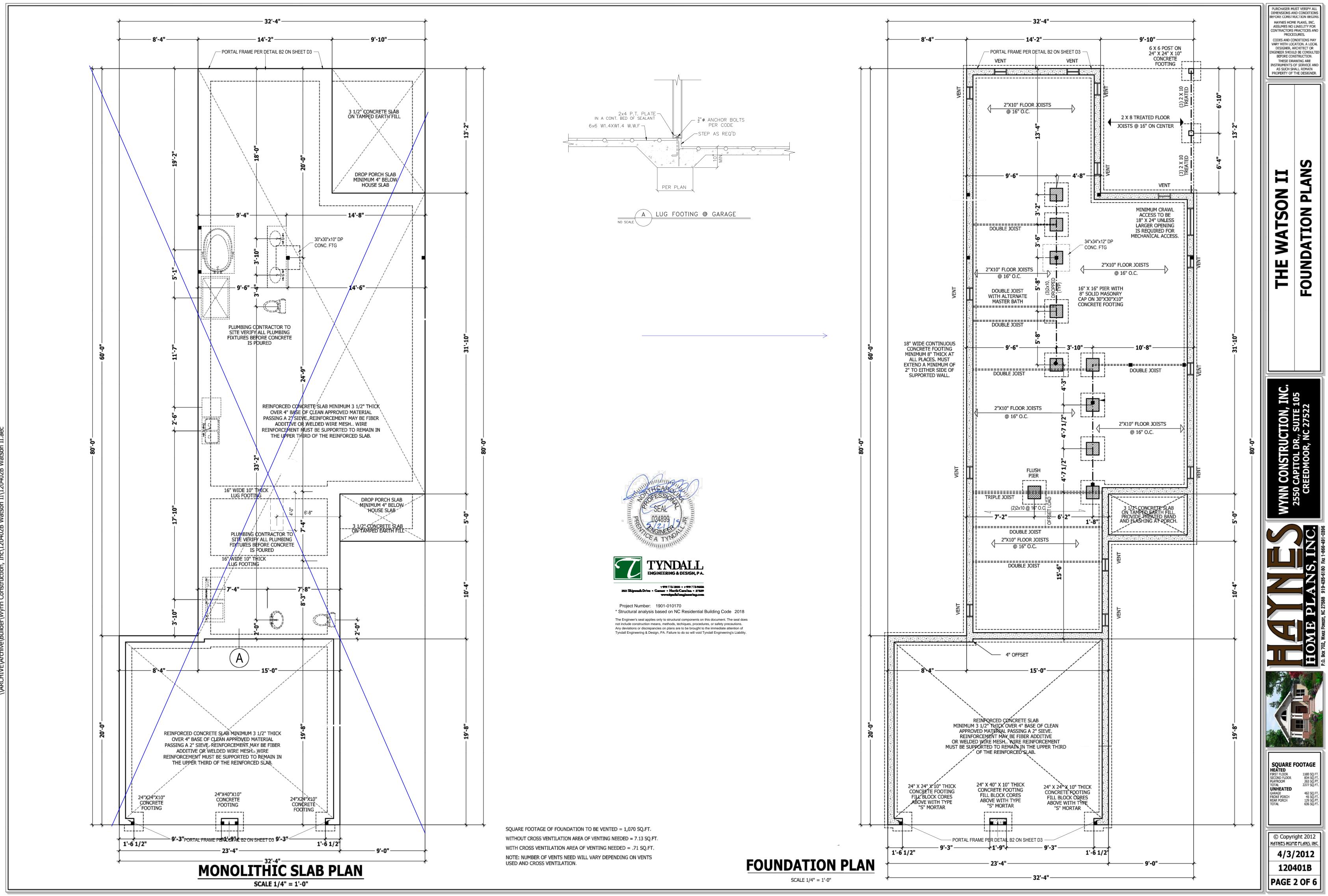
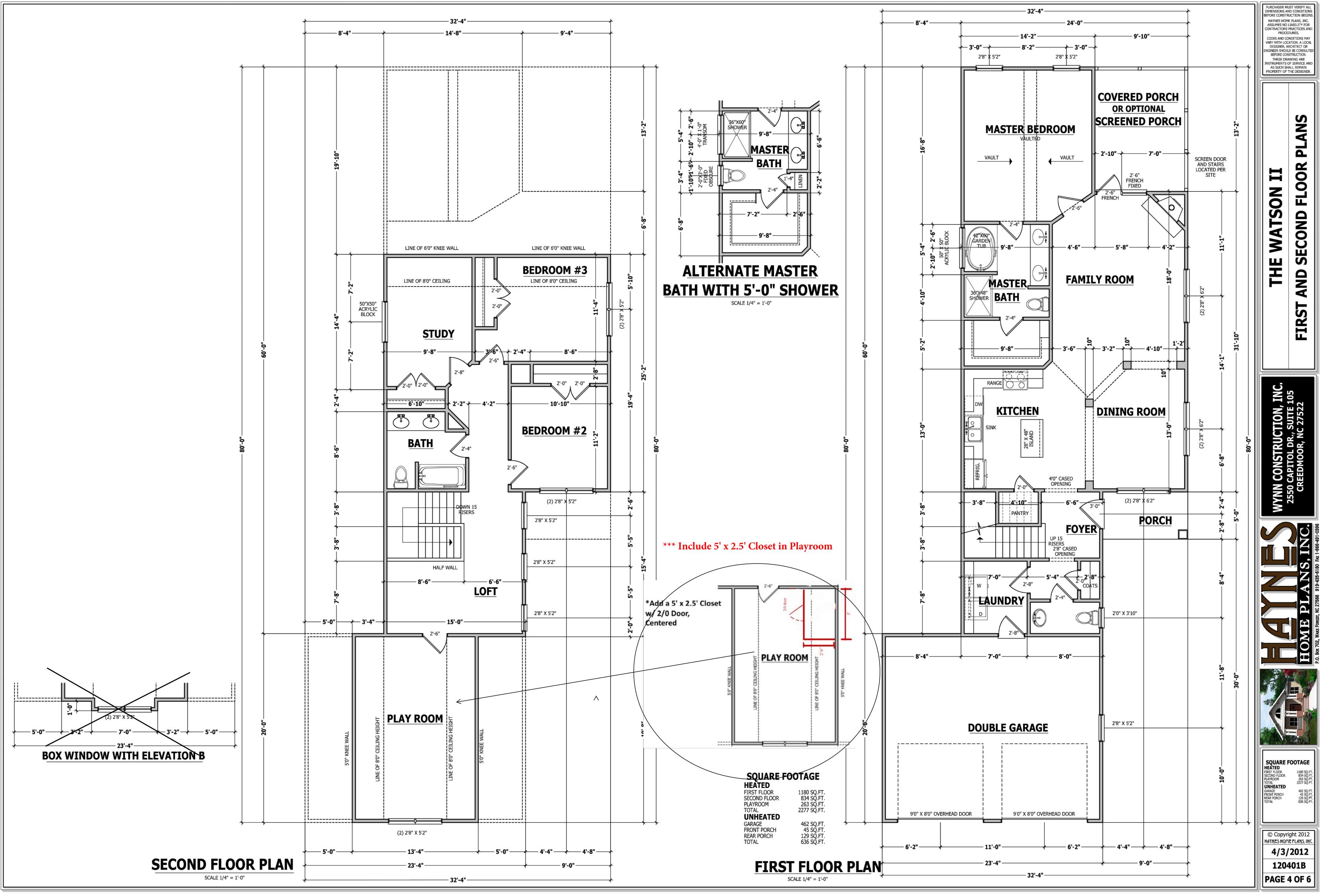


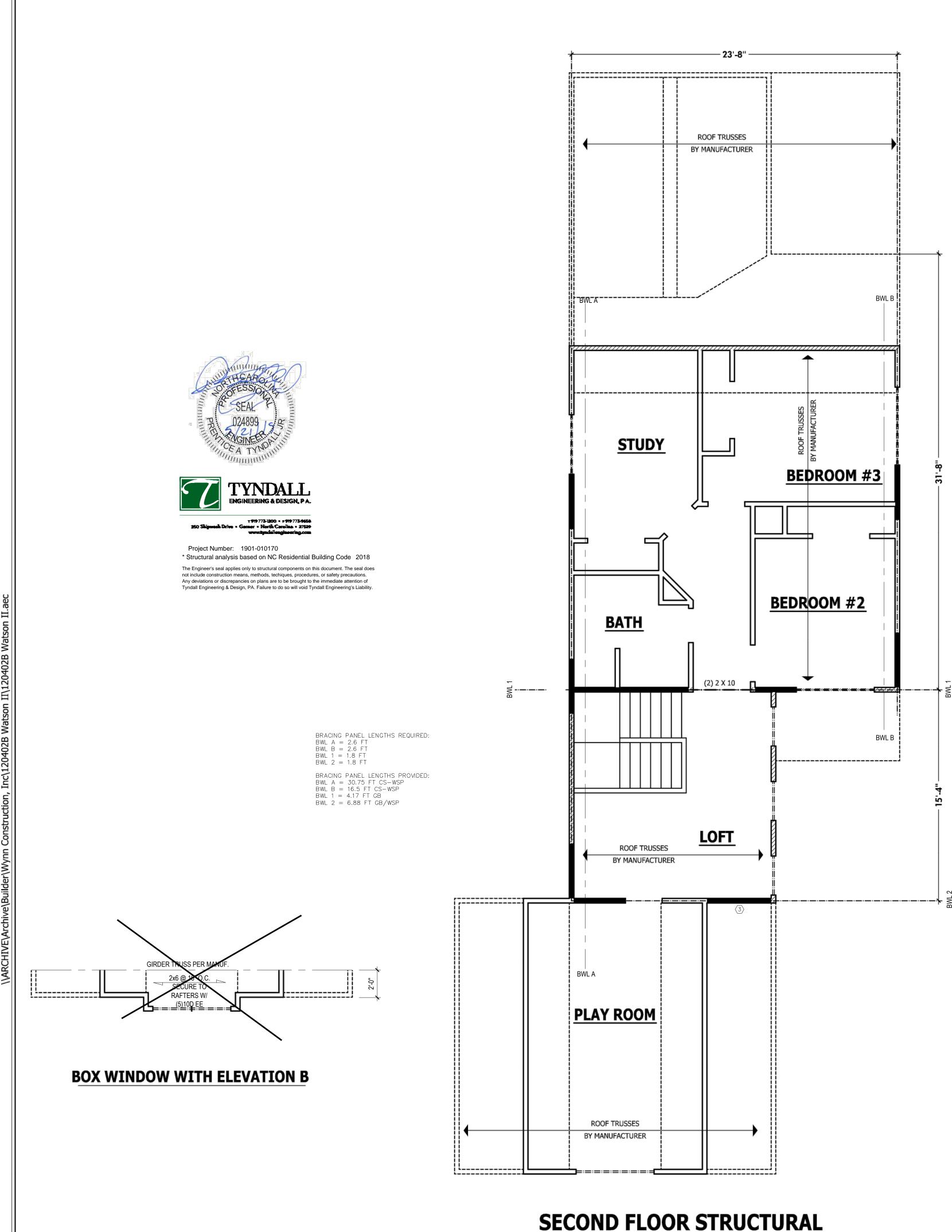


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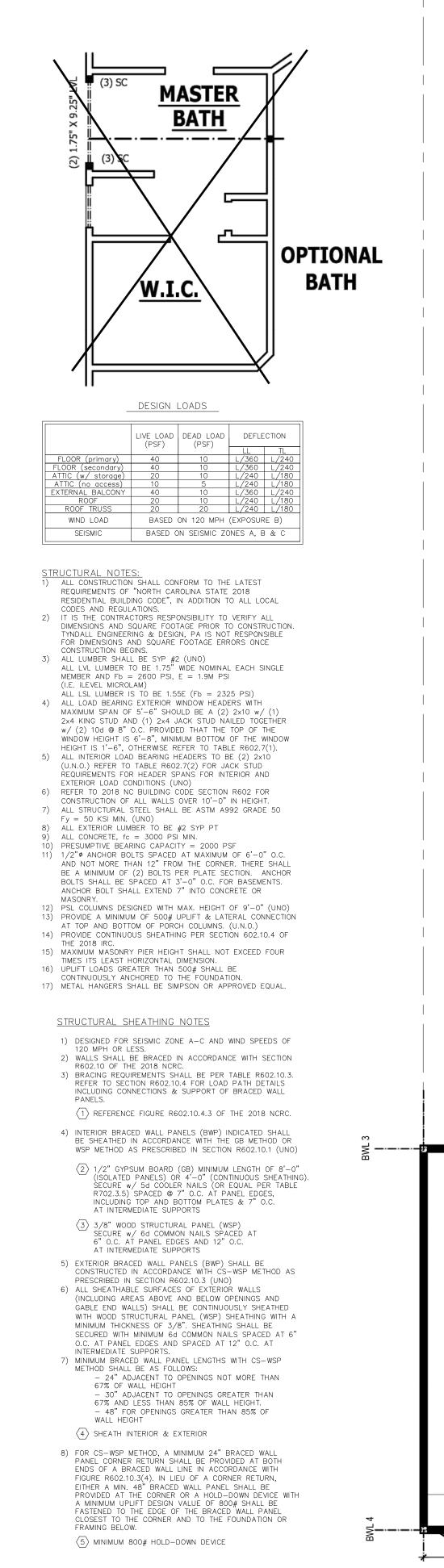




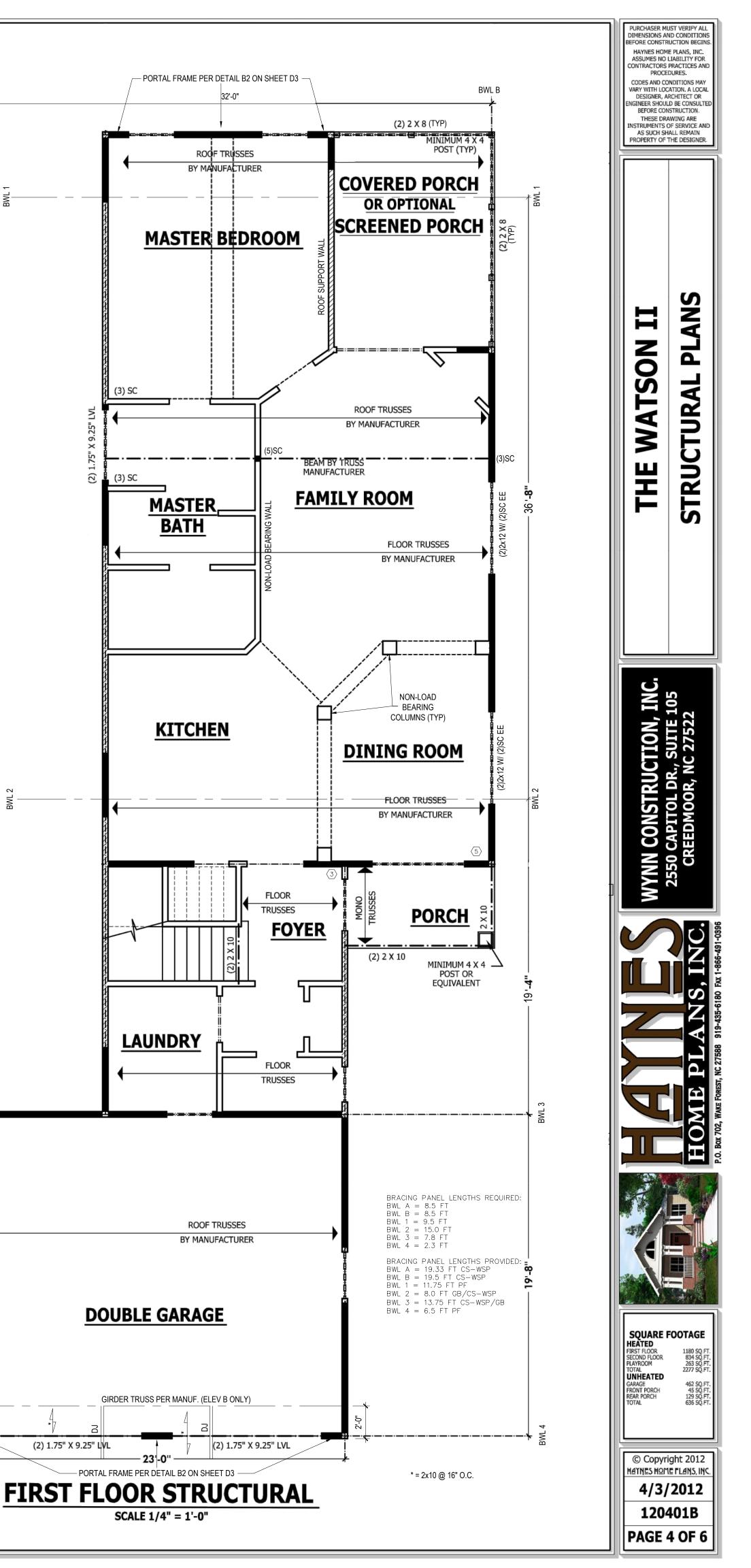


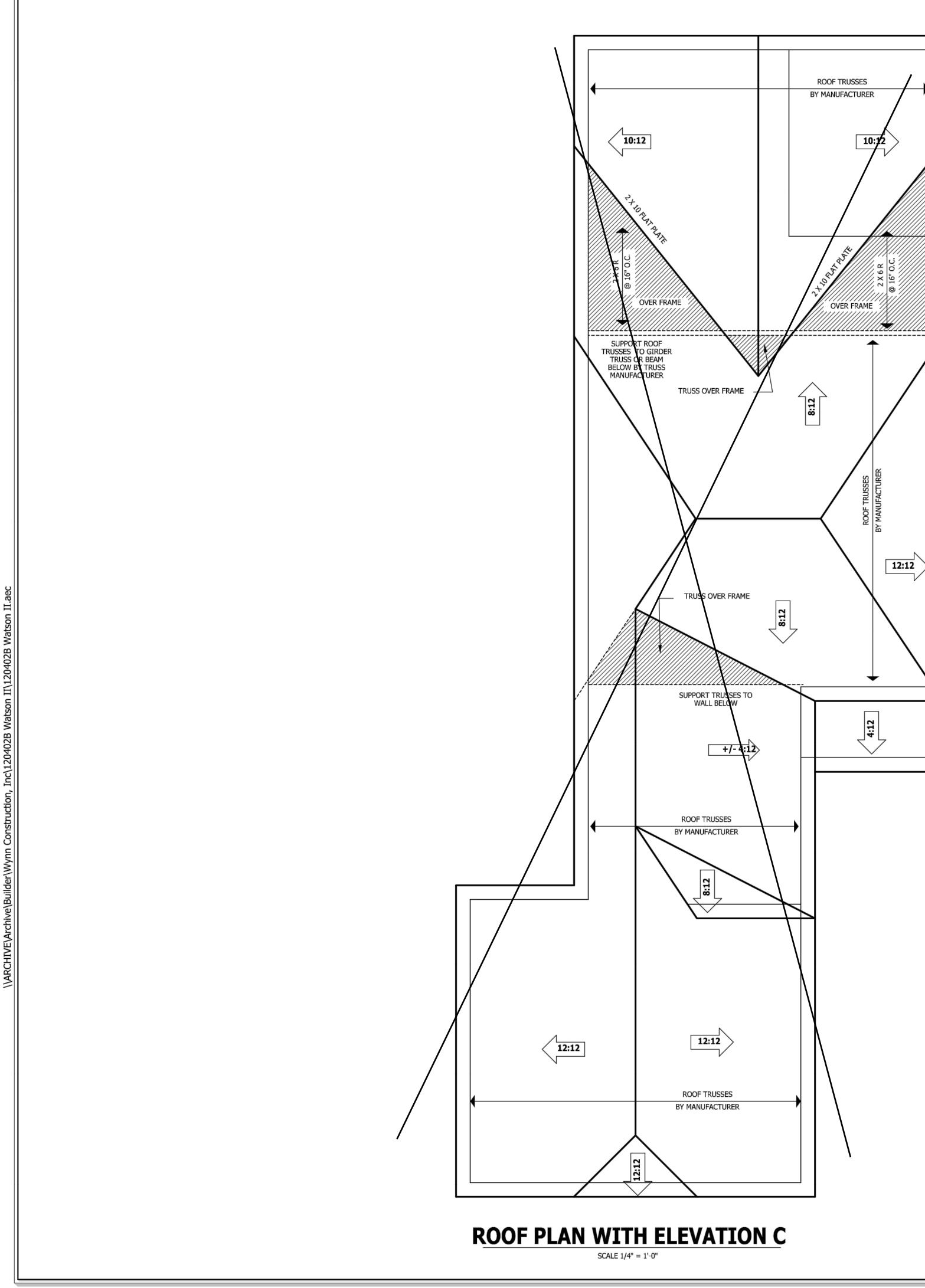


SCALE 1/4" = 1'-0"



BWL A

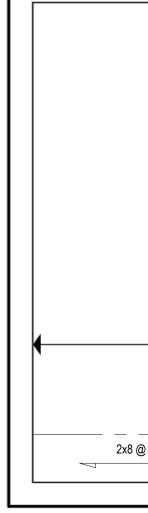


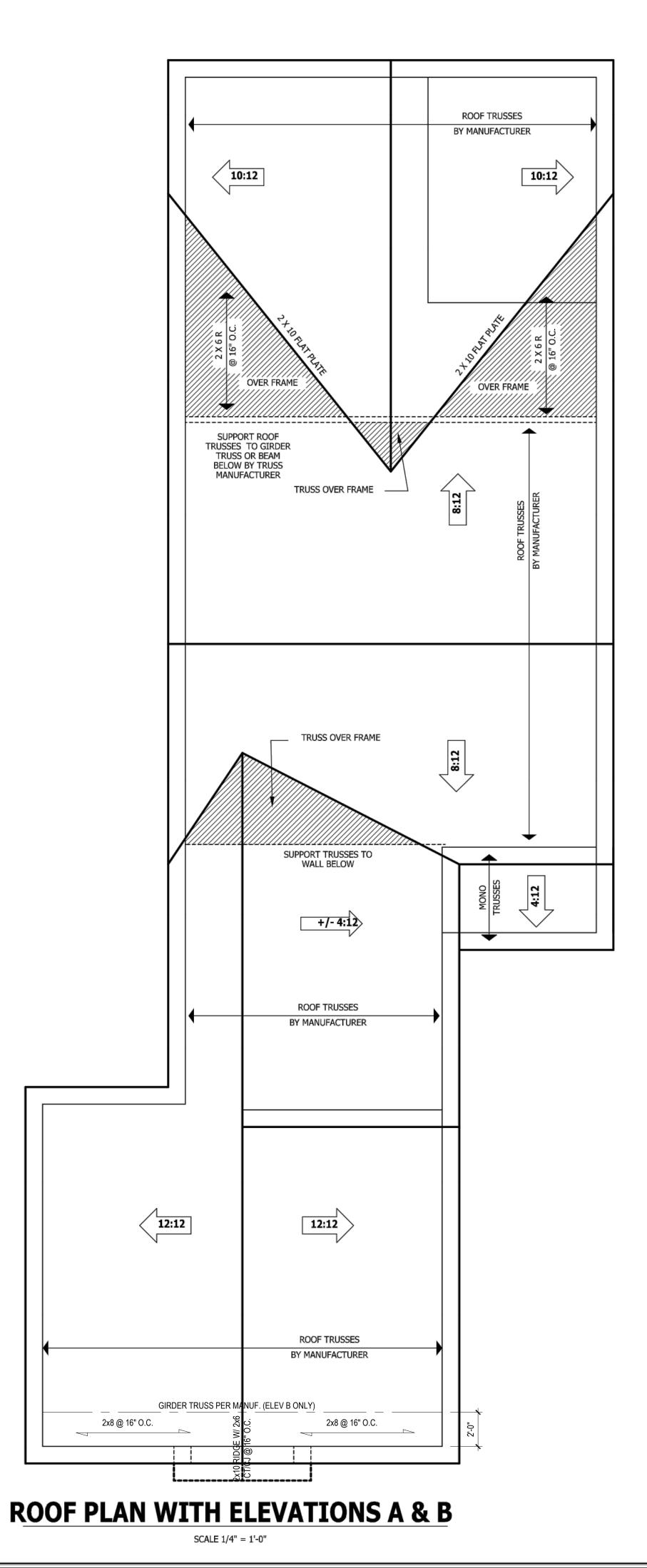






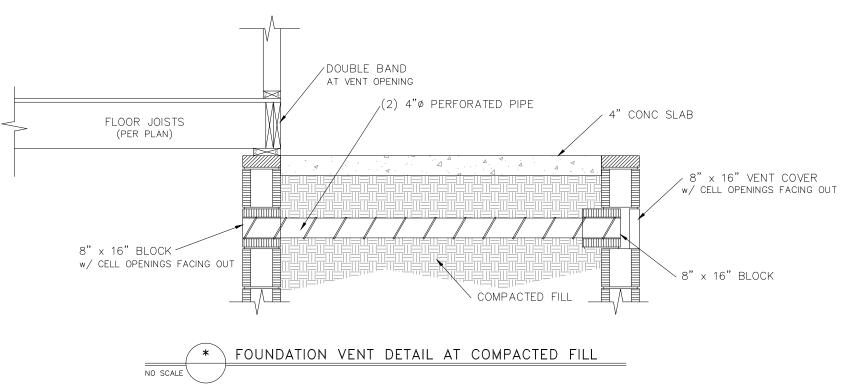
Project Number: 1901-010170 * Structural analysis based on NC Residential Building Code 2018 The Engineer's seal applies only to structural components on this document. The seal does not include construction means, methods, techiques, procedures, or safety precautions. Any deviations or discrepancies on plans are to be brought to the immediate attention of Tyndall Engineering & Design, PA. Failure to do so will void Tyndall Engineering's Liability.

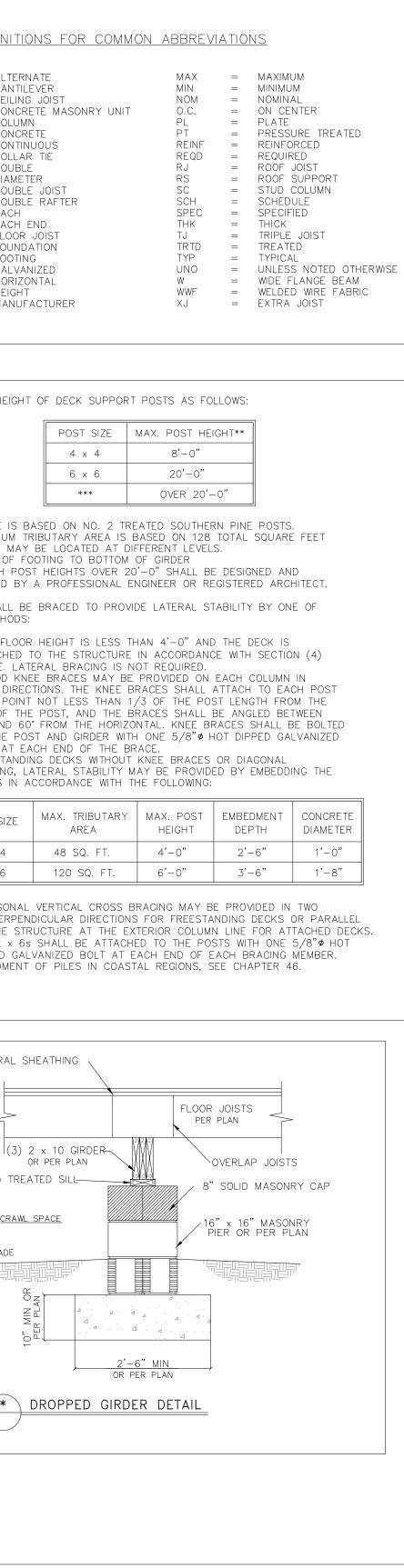


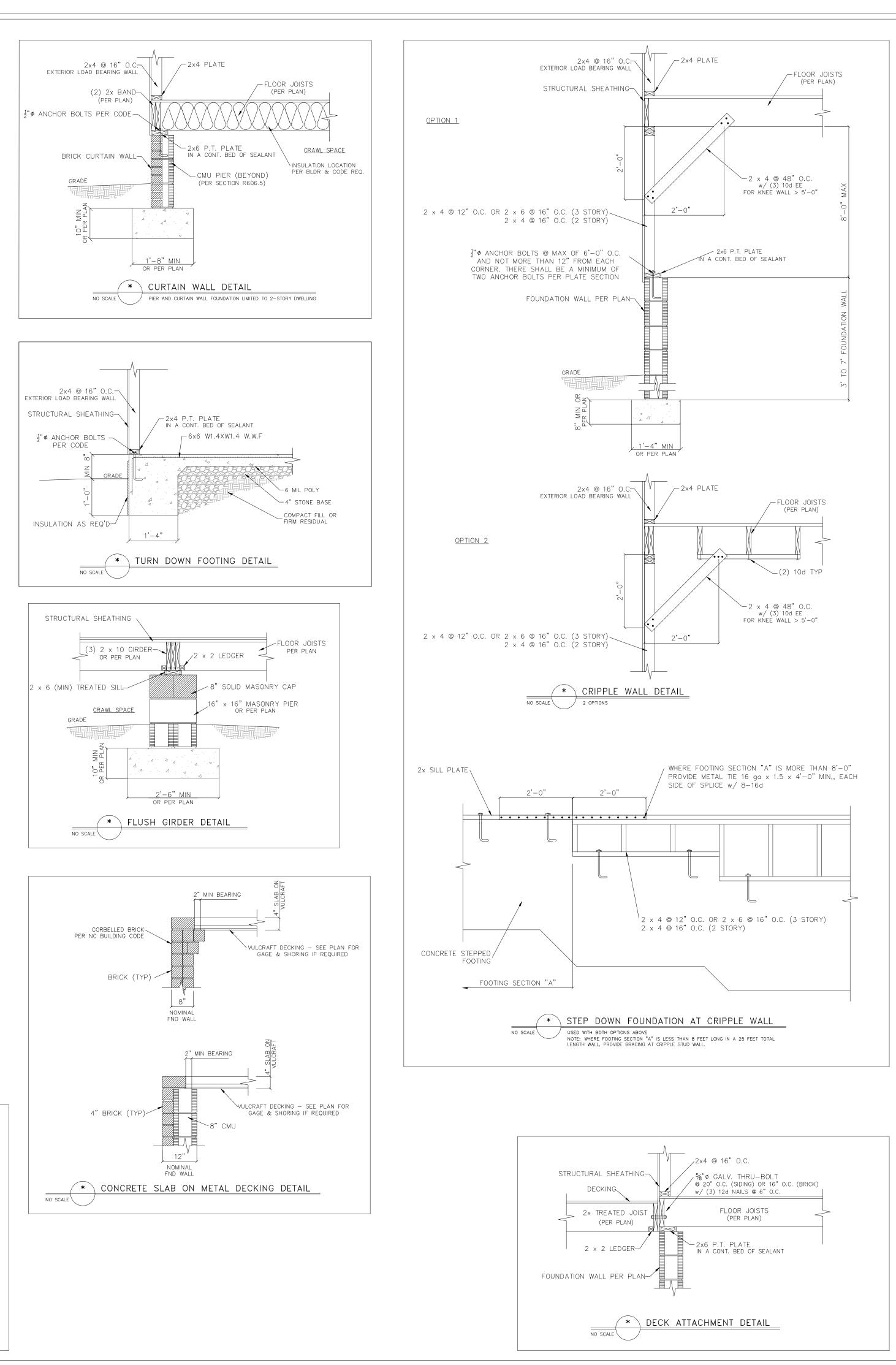


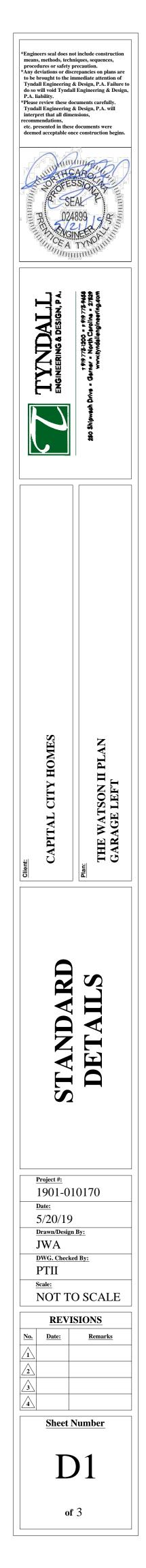


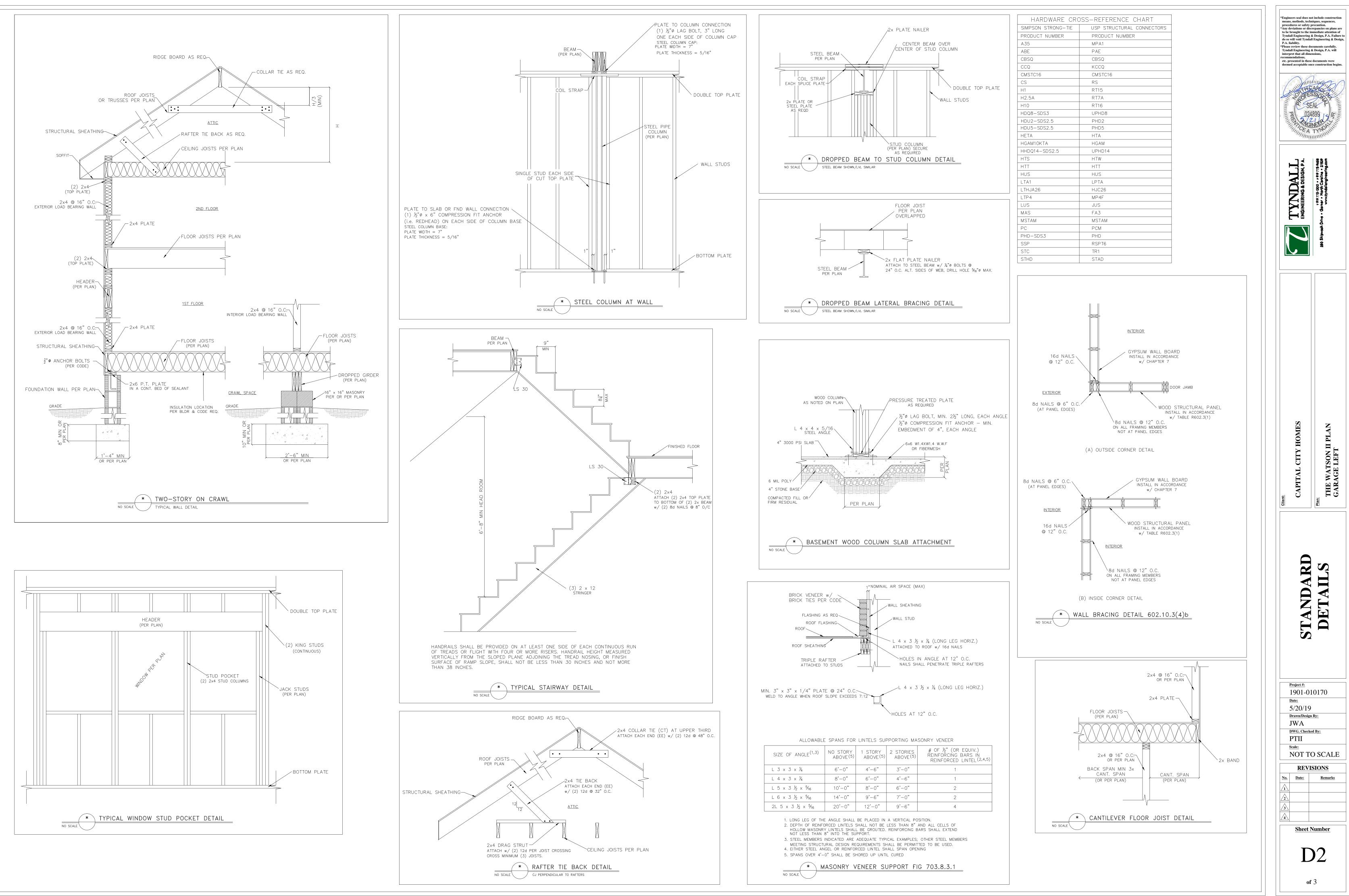
				STF	RUCTURAI	NOTES							
			NFORM TO THE	LATEST R	EQUIREMEN		CAROLINA ST	ATE 2018 RE	ESIDENTIAL BU	ILDING			
	de", in additio sign loads: _[N TO ALL L	OCAL CODES AN	ND REGULA	ATIONS.							DE	FINITIC
Z) DE.	SIGN LUADS.			L	IVE LOAD (PSF)	DEAD LOAD (PSF)	DE	FLECTION				CANT =	ALTERN CANTILE CEILING
			ALL FLOORS w/ walk up sta	irs)	40 30	10 10	L/360 L/360	L/24				COL =	
		ATTIC ((pull down acce TC (no access)		20	10	L/240 L/240	L/180	0			CONT =	CONCRE CONTIN COLLAR
			RNAL BALCONY		40	10 10	L/240 L/360 L/240	L/24	0			DBL = DIA =	DOUBLE DIAMET
			ROOF TRUSS		20	20	L/240	L/180				DR =	DOUBLE DOUBLE EACH
			WIND LOAD SEISMIC		В.	ASED ON 120 M	1PH (EXPOSU 	,				EE =	EACH E FLOOR
								, 				FTG =	FOUND
4) CO	HORIZ = HT =							GALVAN HORIZO HEIGHT MANUF					
5) MA BR	XIMUM DEPTH (ACING. REFER 1)F UNBALAN O SECTION	ICED FILL AGAIN R404 OF 2018 JNBALANCED BA	NC BUILDI	NG CODE F								
6) ALI	_ FRAMING LUM	BER SHALL	BE SYP #2 (Fb	= 800 P	SI, BASED (
ALI ALI	LVL LUMBER	TO BE 1.75" TO BE 3.5"	ED TO THE ELEM WIDE NOMINAL WIDE NOMINAL WIDE NOMINAL	EACH SIN EACH SINC	GLE MEMBE GLE MEMBER	$\begin{array}{rcl} R & AND & Fb &= & 2\\ R & AND & Fb &= & 23 \end{array}$	25 PSI, E =	1.6M PSI (U.	.N.O.)			1) MAXIMUM	HEIGHT
7) ALI Reg	_ LOAD BEARING QUIREMENTS FO	G EXTERIOR R HEADER S	HEADERS SHAL SPANS FOR INTE	l be at (Erior and	2) 2x10. (L EXTERIOR	J.N.O.) REFER T LOAD CONDITION	O TABLE R60 NS UNLESS S	2.7(1) & (2) PECIFICALLY) FOR JACK S NOTED ON PL	TUD ANS.			
ALI	_ STEEL ANGLES	S, PLATES,	HAPES (I-BEAM AND C-CHANNE STM A53 GRADE	LS SHALL									
PR LA	OVIDE SOLID BE G SCREWS (1/2	ARING FROM "\$ x 4" LOM	PORTED AT EAC M BEAM SUPPOR NG). LATERAL S PLATES ARE N	RT TO FOU UPPORT IS	NDATION. B CONSIDERE	EAMS SHALL BE ED ADEQUATE F	E ATTACHED PROVIDED THE	, TO EACH SU JOISTS ARE	PPORT WITH -	FWO (2)		WHIC ** FROM TOI *** DECKS W	IMUM TE CH MAY P OF FO ITH POS
THE	E END OF EACH TEND 7" INTO C	I PLATE SEC CONCRETE O	EMENT PER SEC CTION. ANCHOR R MASONRY. TH TWO ANCHOR B	BOLTS SH IE BOLTS S	ALL BE SPA Shall be l	ACED AT 3'-0" OCATED IN THE	O.C. FOR BA	SEMENTS. AN	NCHOR BOLT S	SHALL		2) DECKS SF THESE ME	
							AND 406 OF I	NC BUILDING	CODE.				ACHED ⁻
WA RO 39. 36. 18.	FOUNDATION DRAINAGE-DAMP PROOFING OR WATERPROOFING PER SECTION 405 AND 406 OF NC BUILDING CODE. ATTACHED ABOVE. LA WALL AND ROOF CLADDING VALUES: B. 4 x 4 WOOD KE WALL CLADDING SHALL BE DESIGNED FOR 28.0 POUNDS PER SQUARE FOOT (LBS/SQFT) OR GREATER POSITIVE AND NEGATIVE PRESSURE. B. 4 x 4 WOOD KE ROOF VALUES BOTH POSITIVE AND NEGATIVE SHALL BE AS FOLLOWS: 39.0 LBS/SQFT FOR ROOF PITCHES 0/12 TO 1.5/12 TOP OF TH 45° AND 6 36.0 LBS/SQFT FOR ROOF PITCHES 1.5/12 TO 6/12 15./12 TO 6/12 B. 4 x 4 WOOD KE **MEAN ROOF HEIGHT 30'-0" OR LESS							DOD KNE H DIREC A POINT OF THE AND 60 THE POS					
			OR LESS 2 Through 4/1	2, BUILDE	r to insta	LL 2 LAYERS C	F 15# FELT F	PAPER.					ESTANDII CING, L/ TS IN A
14) REI	REFER TO SECTION R602.3 FOR FRAMING OF ALL WALLS OVER 10'-0" IN HEIGHT.												
15) PR	PROVIDE CONTINUOUS SHEATHING PER SECTION 602.10.3 OF THE 2018 IRC.												
16) UP	UPLIFT LOADS GREATER THAN 500# SHALL BE CONTINUOUSLY ANCHORED TO THE FOUNDATION.												
			RESCRIPTIVE			THERMAL COMPO	ONENT CRITEF	RIA.				6 ;	x 6
,			MAXIMUM HEIG		· · · ·	TOD AND DOTT						D. 2 x 6 DI. (2)	AGONAL PERPEN
,			UPLIFT & LATE						(U.N.O.)			TO THE	THE STR 2 x 6s
			PONSIBILITY TO						NSTRUCTION.			DIPF E. FOR EMBI	PED GAL EDMENT
ΥΥ ΥΥ	NDALL ENGINEEF	RING & DESI	IGN, PA IS NOT	RESPONSI	BLE FOR DI	MENSION OR SC	QUARE FOOTA	GE ERRORS	ONCE CONSTR	UCTION BEGINS	5.		
			GLAZED		WOOD	MASS		BASEMENT ^{C,}		CRAWL SPACE	c		
CLIMATE ZONES	U-FACTOR ^{b,j}	SKYLIGH1* U-FACTOR	FENESTRATION SHGC ^{d,<u>k</u>}	R-VALUE	R-VALU	e R-Value		WALL R-VALUE	R-VALUE AND DEPTH				
3	0.35	0.55	0.30	<u>38 or 30</u> <u>cont</u>	<u>15</u> or 13 + <u>2.</u>	5^{h} $\frac{5/13 \text{ or}}{5/10 \text{ cor}}$		<u>5/13</u> ^f	0	5/13		STRUCT	ukal Sł
4	0.35	0.55	<u>0.30</u>	38 or 30 cont ^j	15 or 13 + <u>2.</u>	<u>5/13 or</u> <u>5/10 cor</u>		<u>10/15</u>	10	<u>10/15</u>			
5	<u>0.35</u>	0.55	NR	<u>38 or 30</u> cont ^j	<u>19</u> °, or 13 or 15 +	$+ 5^{h}$ 13/17 o	- 1 709	<u>10/15</u>	10	<u>10/19</u>			
			.1 CLIMATE				_					2 ··· 6 (MI	
NO SCAL	DF b. THE I (SHC	THE INSULATION, TENESTRATION U- GC) COLUMN APPL	IMS. U-FACTORS AND S THE INSTALLED R-VALU FACTOR COLUMN EXCLU IES TO ALL GLAZED FE CONTINUOUS INSULATED	E OF THE INSU JDED SKYLIGHTS NESTRATION.	LATION SHALL NO 5. THE SOLAR HE	DT BE LESS THAN THE AT GAIN COEFFICIENT	R-VALUE SPECIFIED		E LABEL OR DESIGN	THICKNESS		2 x 6 (MI	CRAWL
	OR I d. <u>FOR</u>	R-15 CAVITY INSU	JLATION AT THE INTERIC S. INSULATION SHALL B MAXIMUM OF 24" BELC	OR OF THE BAS E APPLIED FRO	EMENT WALL OR M THE INSPECTIO	CRAWL SPACE WALL. N GAP DOWNWARD TO	THE BOTTOM					-	
	SHAL ADDE	<u>EXTEND TO THE</u> D TO THE REQUIR	MAXIMUM OF 24" BELC BOTTOM OF THE FOUN ED SLAB EDGE R-VALU	DATION WALL C	OR 24", WHICHEVE							C T	
		MENT WALL INSUL	ATION IS NOT REQUIRED			S DEFINED BY <u>FIGURE 1</u>	N1101.7 AND TABLE	<u>N1101.7</u> .					с К О
	h. THE SHE	FIRST VALUE IS C ATHING. "15+3" M	AVITY INSULATION, THE	SECOND VALUE SULATION. PLUS	E IS CONTINUOUS R-3 INSULATED	SHEATHING. IF STRUC	TURAL SHEATHING C	OVERS 25% OR LE	SS OF THE EXTERIOR				Z N N
	<u>OF</u>		G IS NOT REQUIRED WH IALL BE SUPPLEMENTED 2.5 SHEATHING.						25 PERCENT				10"
	<u>j. IN AD</u>	DITION TO THE EX	SECOND R-VALUE APP KEMPTION IN SECTION N	1102.3.3, A MA	XIMUM OF TWO G	LAZED FENESTRATION	PRODUCT ASSEMBLIE	S HAVING A U-FA	ACTOR NO GREATER	THAN 0.55 SHALL BE			
	<u>k.</u> <u>IN AE</u> <u>PERM</u>	DITION TO THE E	STITUTED FOR MINIMUM XEMPTION IN SECTION N STITUTED FOR MINIMUM	11102.3.3, A MA CODE COMPLIA	XIMUM OF TWO (NT FENESTRATION	BLAZED FENESTRATION	PRODUCT ASSEMBLI	<u>es having a shgc</u> —				_ (*
	<u>AT TH</u> OF TH	<u>IE EAVES. OTHER!</u> IE ATTIC ROOF DE		IS REQUIRED W	HERE ADEQUATE	CLEARANCE EXISTS OR	INSULATION MUST	EXTEND TO EITHER	R THE INSULATION B	AFFLE OR WITHIN 1 INC		NO SCALE	\mathcal{T}
	<u>n.</u> <u>R –19</u> <u>AND I</u>	FIBERGLASS BAT NSTALLED IN A 2) EXCEPT FOR ROOF ED TS COMPRESSED AND IN X4 WALL IS NOT DEEME G THE MINIMUM MASS \	NSTALLED IN A	NOMINAL 2 _ 6	FRAMING CAVITY IS DE	EMED TO COMPLY. F	IBERGLASS BATTS	RATED R-19 OR HI	GHER COMPRESSED	<u> </u>		

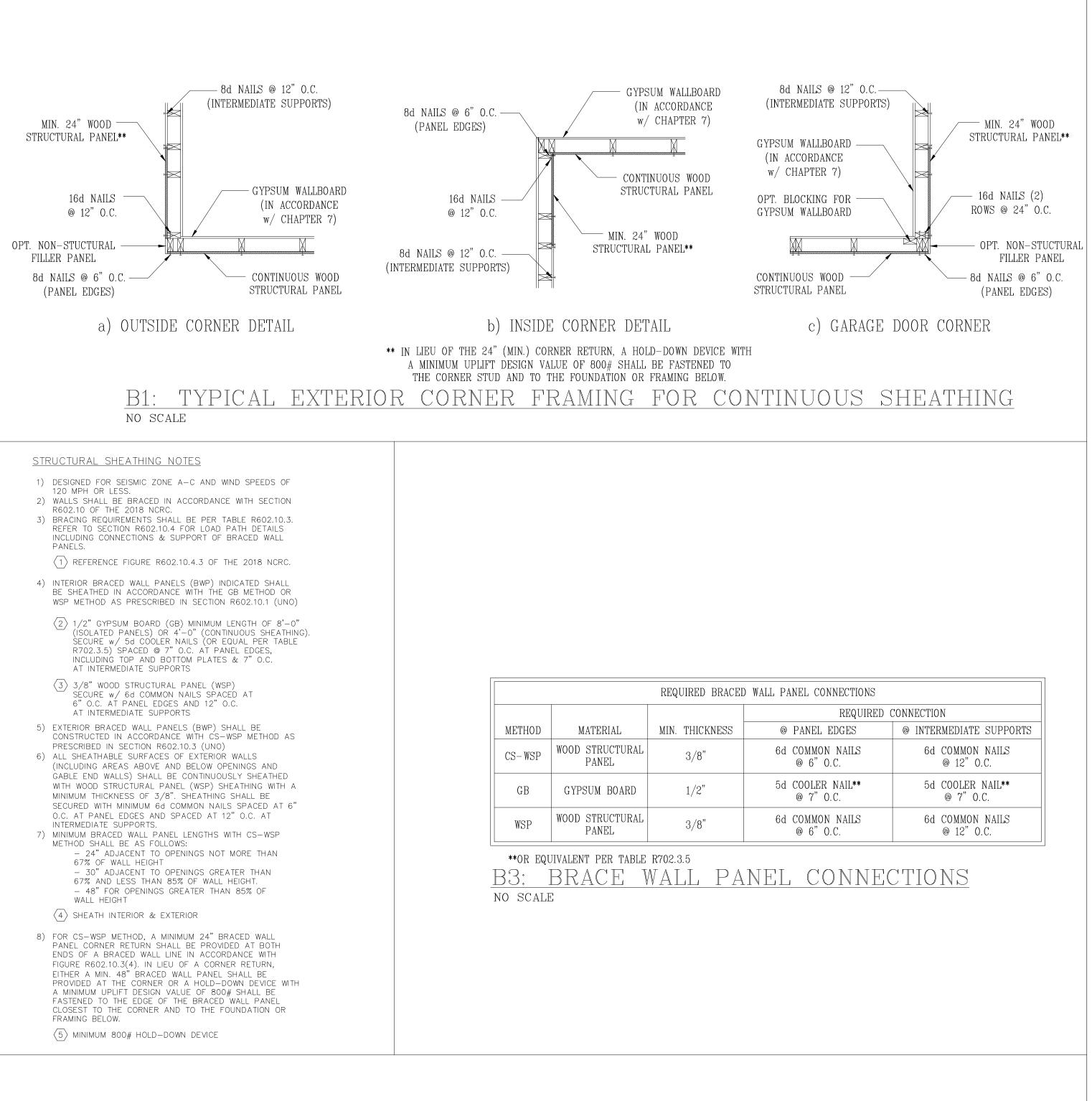


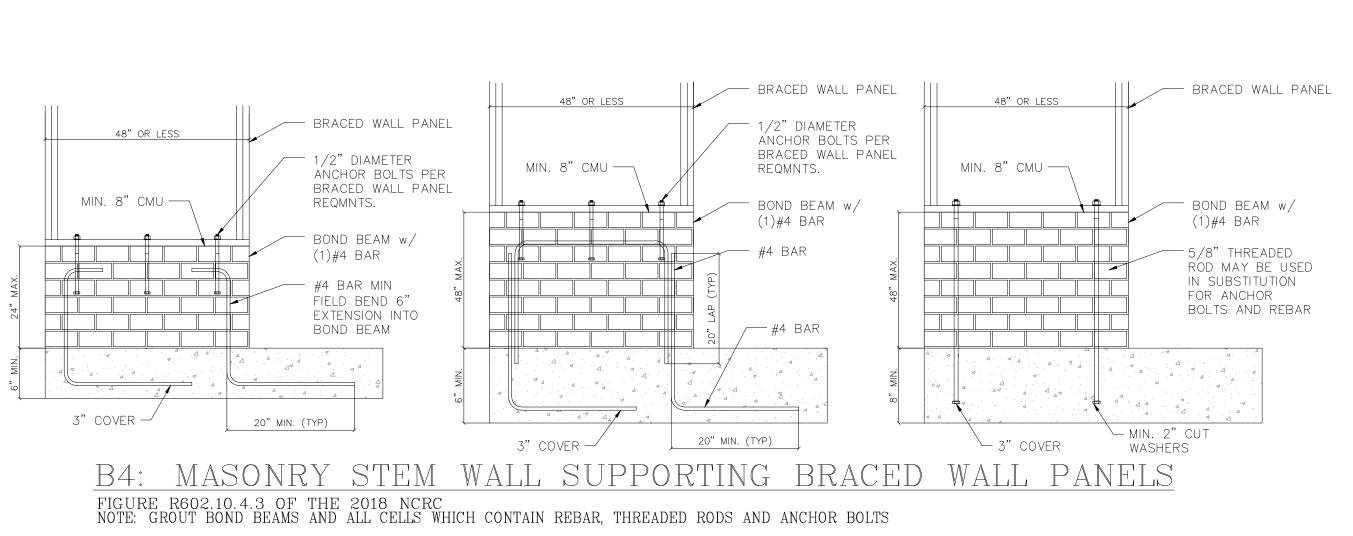












CONNECTIONS								
REQUIRED CONNECTION								
EL EDGES	@ INTERMEDIATE SUPPORTS							
MON NAILS	6d COMMON NAILS							
"O.C.	@ 12"O.C.							
LER NAIL**	5d COOLER NAIL**							
"O.C.	@ 7" O.C.							
MON NAILS	6d COMMON NAILS							
"O.C.	@ 12"O.C.							

