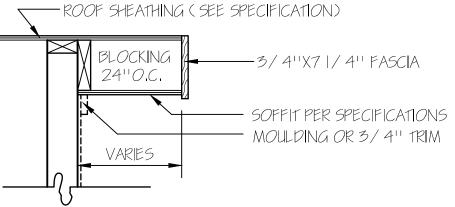
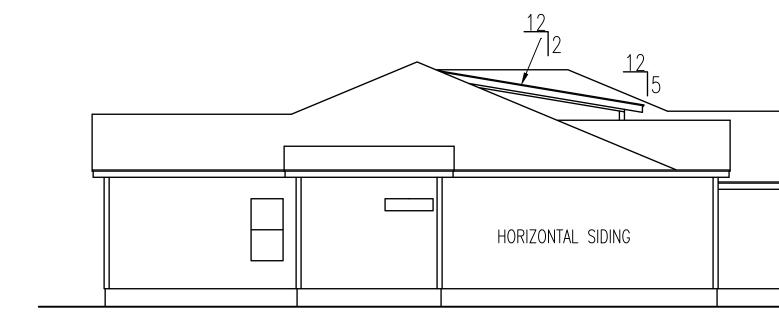


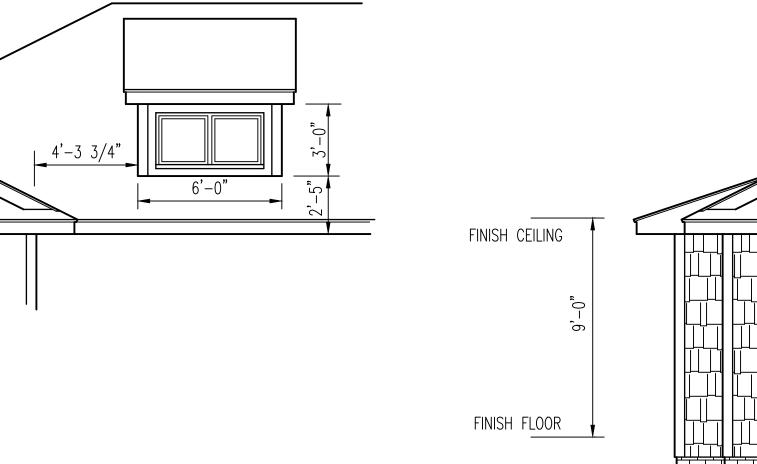
## RAKE DETAIL FOR GABLE ENDS

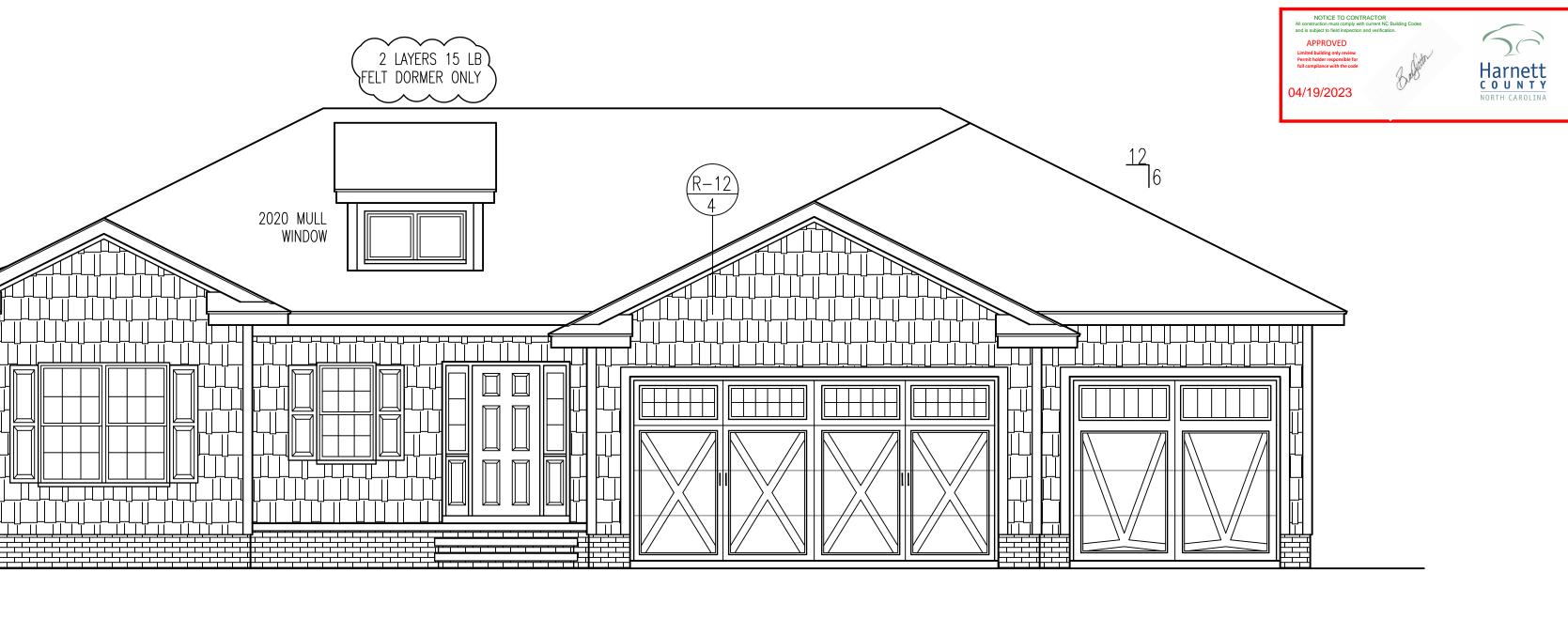


## LEFT ELEVATION

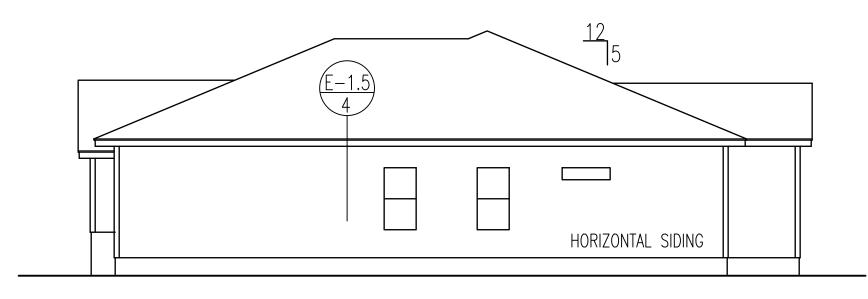


GRADE VARIES

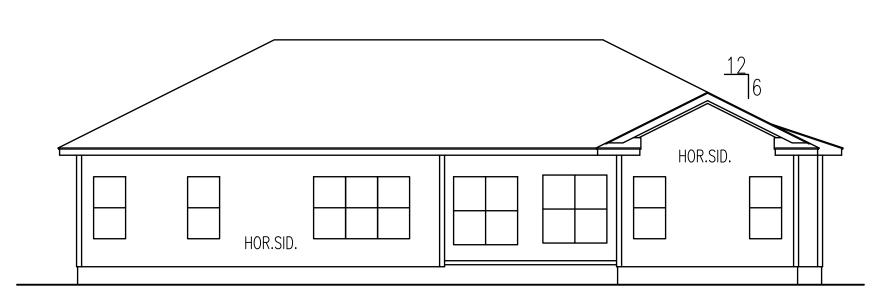




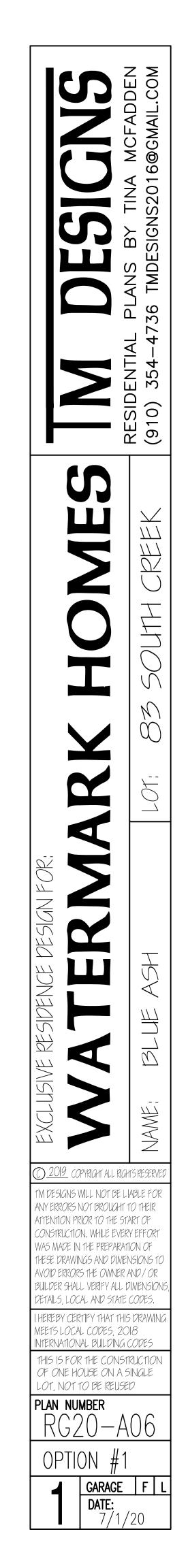


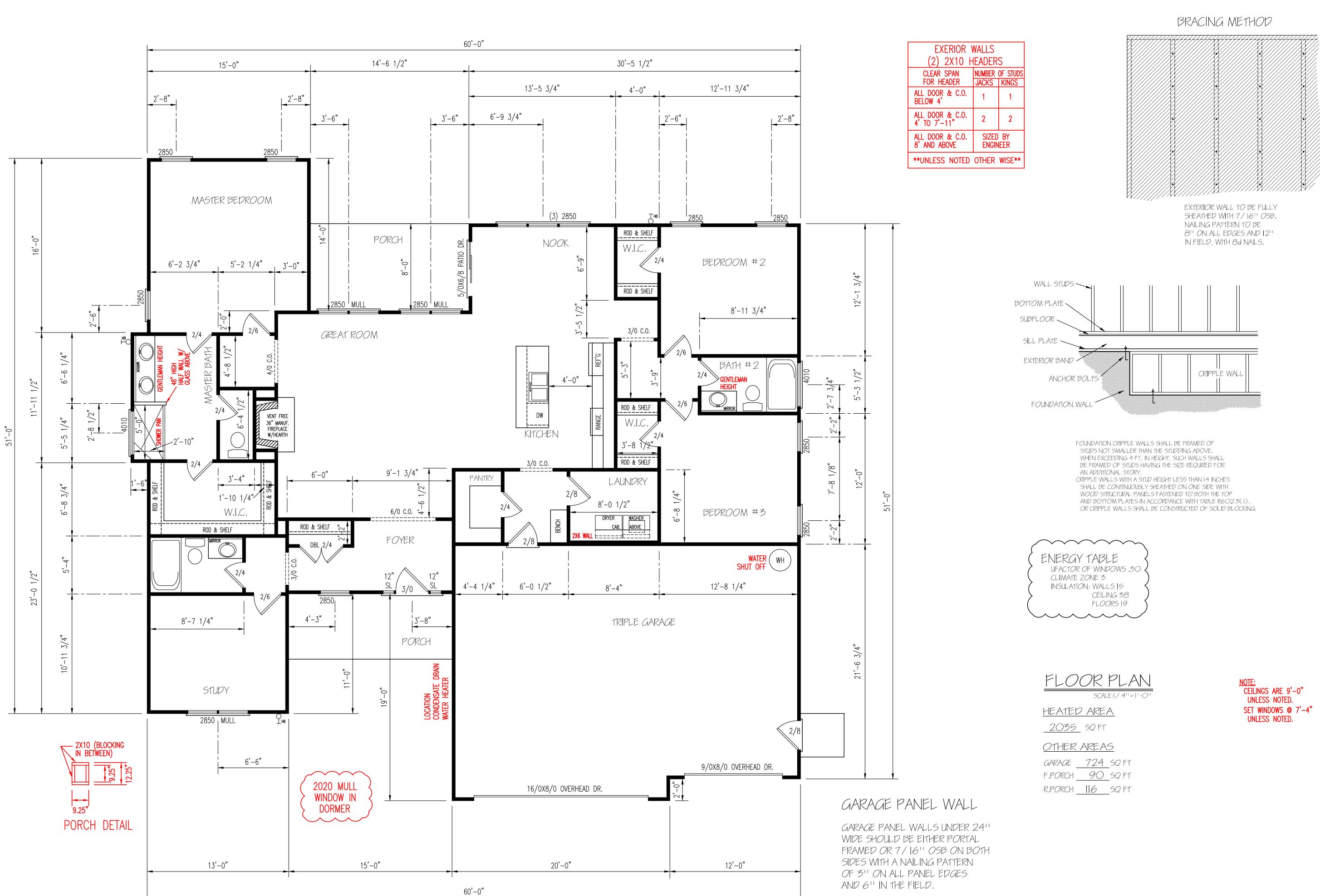


RIGHT ELEVATION

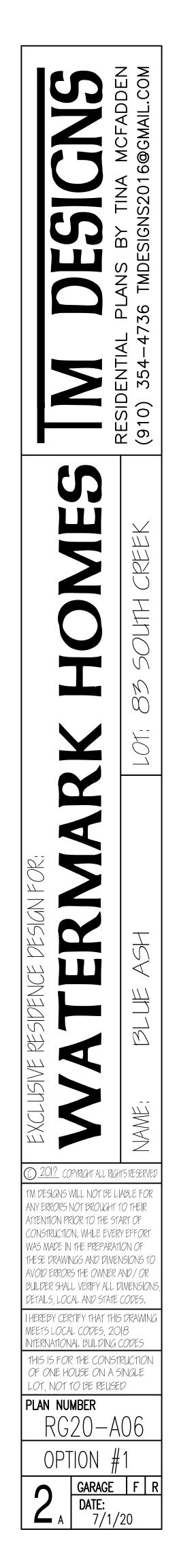


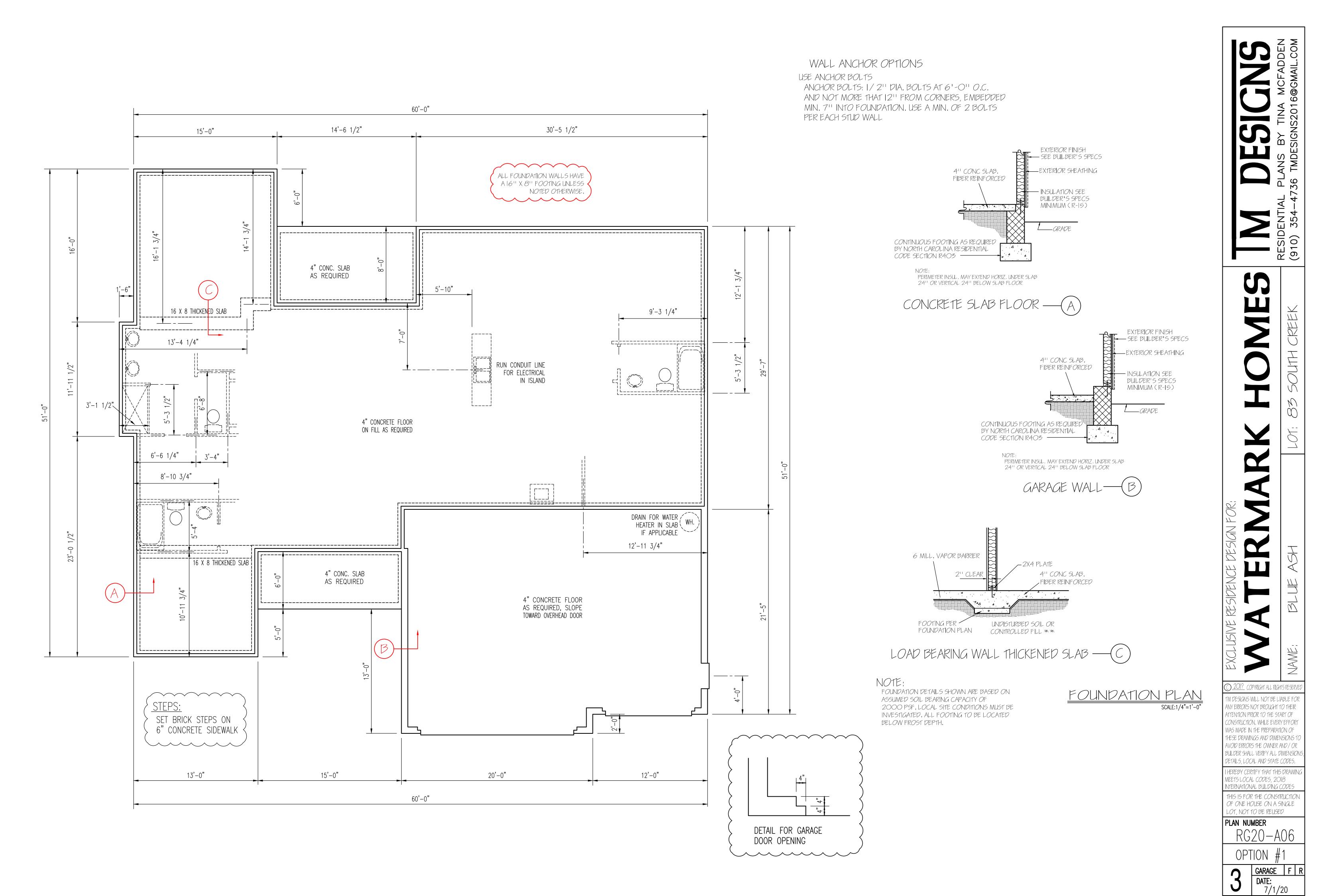
REAR ELEVATION SCALE:1/8"=1'-0"

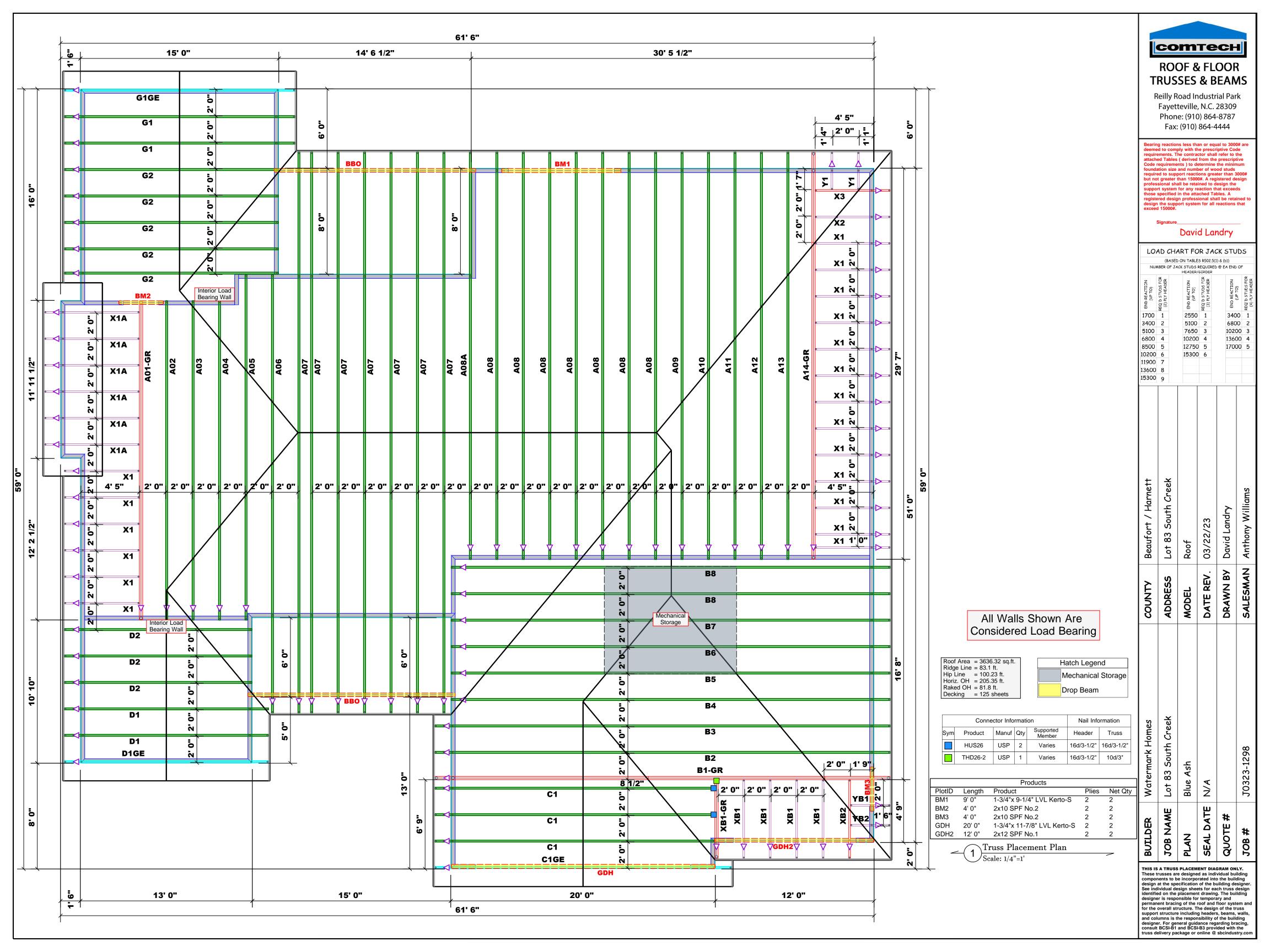


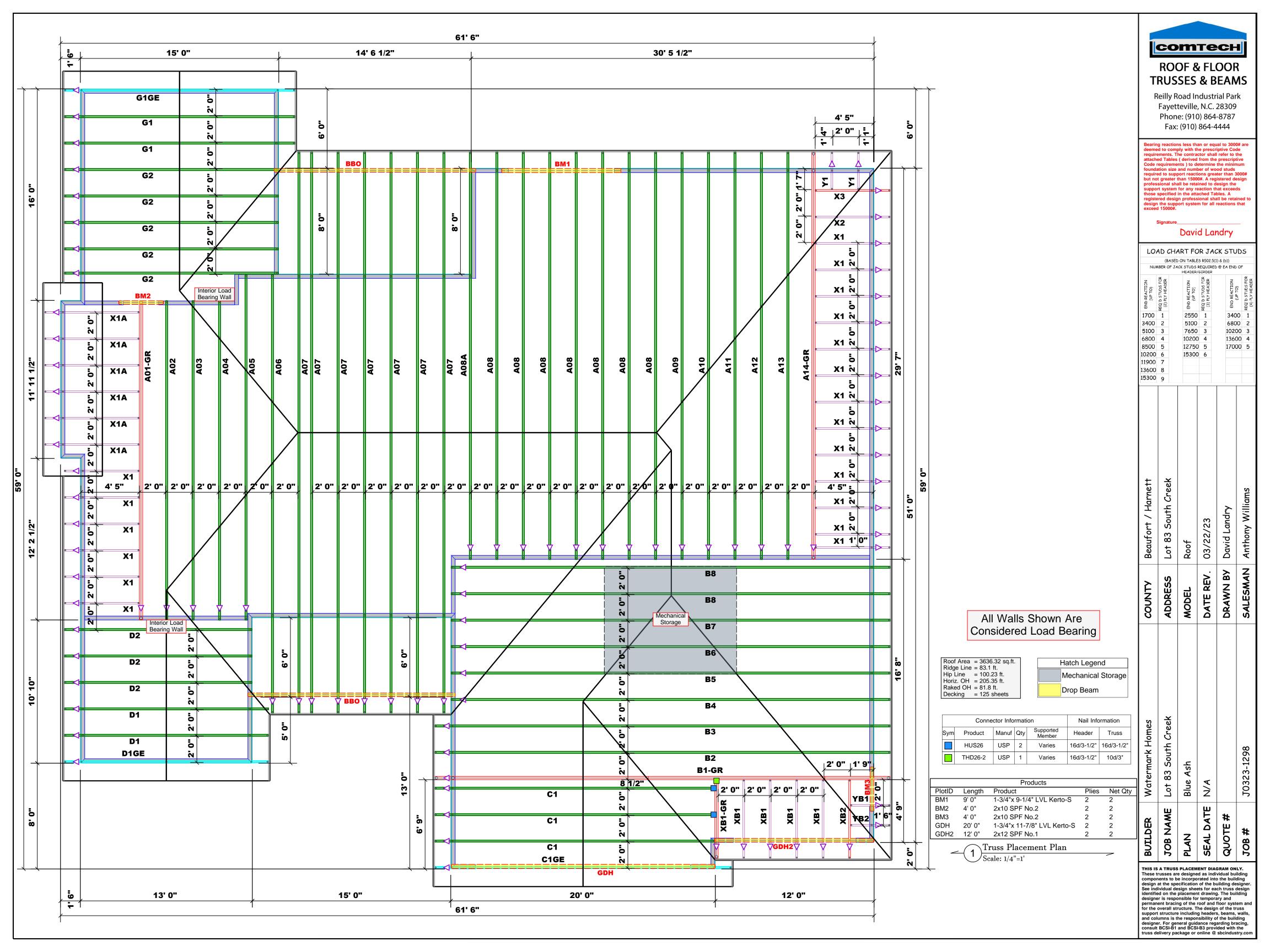


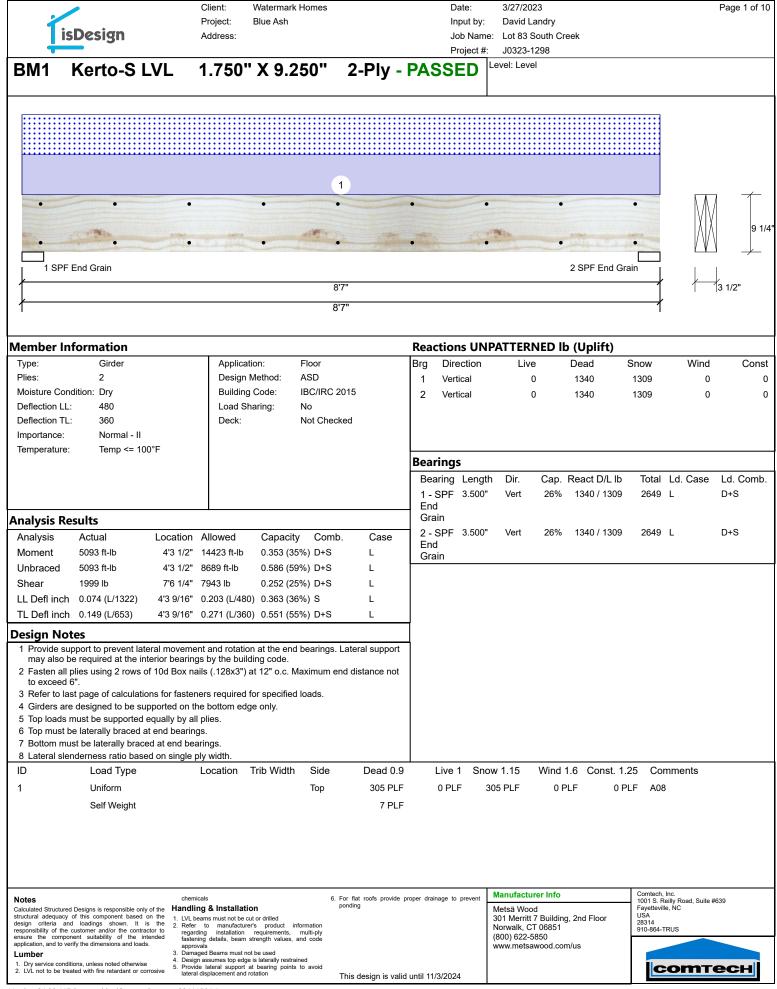
<u>OTHER</u>	AREA	5
GARAGE	724	SQ FT
F.PORCH	90	SQ FT











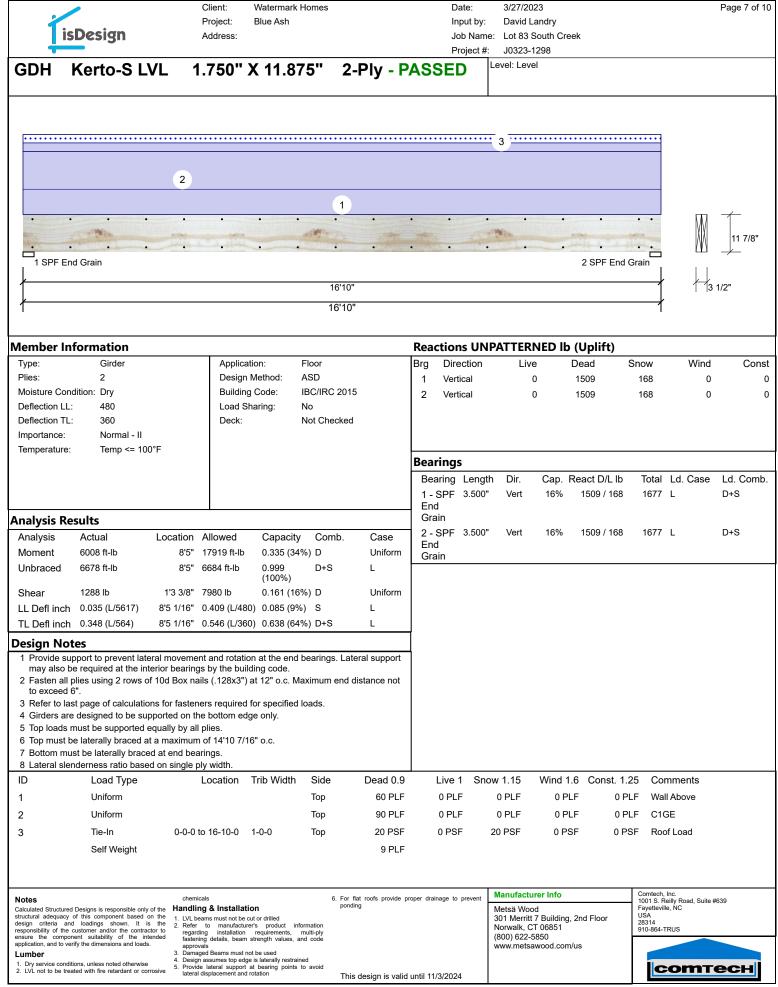
	Client: Watermark Homes	Date:	3/27/2023	Page 2 of 10
	Project: Blue Ash	Input by:	David Landry	
isDesign	Address:		e: Lot 83 South Creek	
		Project #		
BM1 Kerto-S LVL	1.750" X 9.250"	2-Ply - PASSED	Level: Level	
••••	• •	• • •	•	• •
				ŢXIX 9 1/4'
• • •	•	• • •	•	• <u> </u>
1 SPF End Grain			2 SPF End Gra	in
		8'7"		3 1/2"
/ /		8'7"		
				·
Multi-Ply Analysis				
Fasten all plies using 2 rows of 10c	Box nails (.128x3") at 12"	o.c Maximum end distance n	ot to exceed 6".	
Capacity 0.0 %				
Load 0.0 PLF Yield Limit per Foot 163.7 Pl				
Yield Limit per Fastener 81.9 lb.				
Yield Mode IV				
Edge Distance 1 1/2"				
Min. End Distance 3" Load Combination				
Duration Factor 1.00				
		<ol> <li>For flat roofs provide proper drainage to prevent ponding</li> </ol>	Manufacturer Info	Comtech, Inc. 1001 S. Reilly Road, Suite #639 Equation III NC
structural adequacy of this component based on the 1. LVL	lling & Installation beams must not be cut or drilled		Metsä Wood 301 Merritt 7 Building, 2nd Floor	Fayetteville, NC USA 28314
responsibility of the customer and/or the contractor to reg	fer to manufacturer's product information arding installation requirements, multi-ply tening details beam strength values and code		Norwalk, CT 06851 (800) 622-5850	910-864-TRUS
application, and to verify the dimensions and loads. app	tening details, beam strength values, and code provals maged Beams must not be used		www.metsawood.com/us	
1. Dry service conditions, unless noted otherwise     5. Pro	sign assumes top edge is laterally restrained ovide lateral support at bearing points to avoid			соттесн
2. LVL not to be treated with fire retardant or corrosive late	eral displacement and rotation	This design is valid until 11/3/2024		Contech

	sDesign	Ad	ddress:	ue Ash			Jol Pro	oject #:	David La Lot 83 S J0323-1	outh Cre 298	ek			
BM2	S-P-F #2	2.00	0" X 10	0.000"	2-Ply	- <b>PA</b>	SSED		evel: Leve	I				
•	1													9
•													/ V	
1 SPF	<sup>=</sup> End Grain		PF End Grain											ļ,
	3'4												1 1	3"
1	3'4	."		1										
lember li	nformation					F	eaction	s UNP	ATTER	NED Ib	(Uplift)			
Туре:	Girder		Application		oor			ction	Live		Dead	Snow	Wind	Со
Plies:	2 ndition: Dm/		Design Me		D C/IRC 2015		1 Verti		C		522	522	0	
Moisture Co Deflection Ll			Building Co Load Shari				2 Verti	cal	C		522	522	0	
Deflection TI			Deck:	-	t Checked									
mportance:	Normal - II													
Temperature	e: Temp <= 100°	F												
						E	earings							
							Bearing	-			React D/L lb		Ld. Case	Ld. Con
							1 - SPF	3.500"	Vert	23%	522 / 522	1044	L	D+S
nalysis R	oculte						End Grain							
Analysis		Location Al	llowed	Capacity	Comb. C	Case	2 - SPF	3.500"	Vert	23%	522 / 522	1044	L	D+S
Moment	1501 ft-lb	1'8" 39		0.380 (38%)			End							
Unbraced	1501 ft-lb	1'8" 38		0.391 (39%)		L	Grain							
Shear	1044 lb	2'3 1/4" 28		0.363 (36%) 0.363 (36%)										
LL Defl inch			072 (L/480)											
	(L/10700)	10 0.	072 (1/400)	0.040 (470)	0 2									
TL Defl incl	n 0.006 (L/5350)	1'8" 0.	096 (L/360)	0.067 (7%)	D+S L									
esign No	otes													
<ol> <li>Provide si may also</li> <li>Fasten all to exceed</li> </ol>	upport to prevent latera be required at the inter plies using 2 rows of 6".	ior bearings t 10d Box nails	by the building (.128x3") at 1	g code. 2" o.c. Maxi	mum end distan									
	ast page of calculations re designed to be supp				ds.									
	must be supported eq			y.										
	be laterally braced at e													
	ust be laterally braced enderness ratio based													
ID	Load Type			b Width	Side De	ad 0.9	Live 1	Snov	v 1.15	Wind 1	.6 Const.	1 25 Co	mments	
1	Point		1-8-0			1044 lb	0 lb		044 lb		lb	0 lb A0 <sup>-</sup>		
			-			-				•				
1	Point		1-8-0		Гор	1044 Ib	0 Ib		044 lb Manufactui		Ib	Comtech	, Inc. Reilly Road, Suite # Ile, NC	1639

LieDesign	Client: Watermark Home Project: Blue Ash	Input by:	3/27/2023 David Landry	Page 4 of 10
isDesign	Address:	Job Name Project #:	e: Lot 83 South Creek J0323-1298	
BM2 S-P-F #2	2 2.000" X 10.000"	2-Ply - PASSED	Level: Level	
	•			
				9 1/4"
• •	-	-		
1 SPF End Grain	2 SPF End Grain			ļ.
	3'4" 3'4"			13"
	54 1			
Multi-Ply Analysis				
Fasten all plies using 2 re Capacity	ows of 10d Box nails (.128x3") at 12	" o.c Maximum end distance no	ot to exceed 6".	
Load Yield Limit per Foot	0.0 PLF 157.4 PLF			
Yield Limit per Fastener Yield Mode	78.7 lb. IV			
Edge Distance Min. End Distance	1 1/2" 3"			
Load Combination Duration Factor	1.00			
		ļ	Manufacturer Info	Comtech, Inc. 1001 S. Reilly Road, Suite #639 Fayetteville, NC
				USA 28314 910-864-TRUS
		This design is valid until 11/3/2024		соттесн

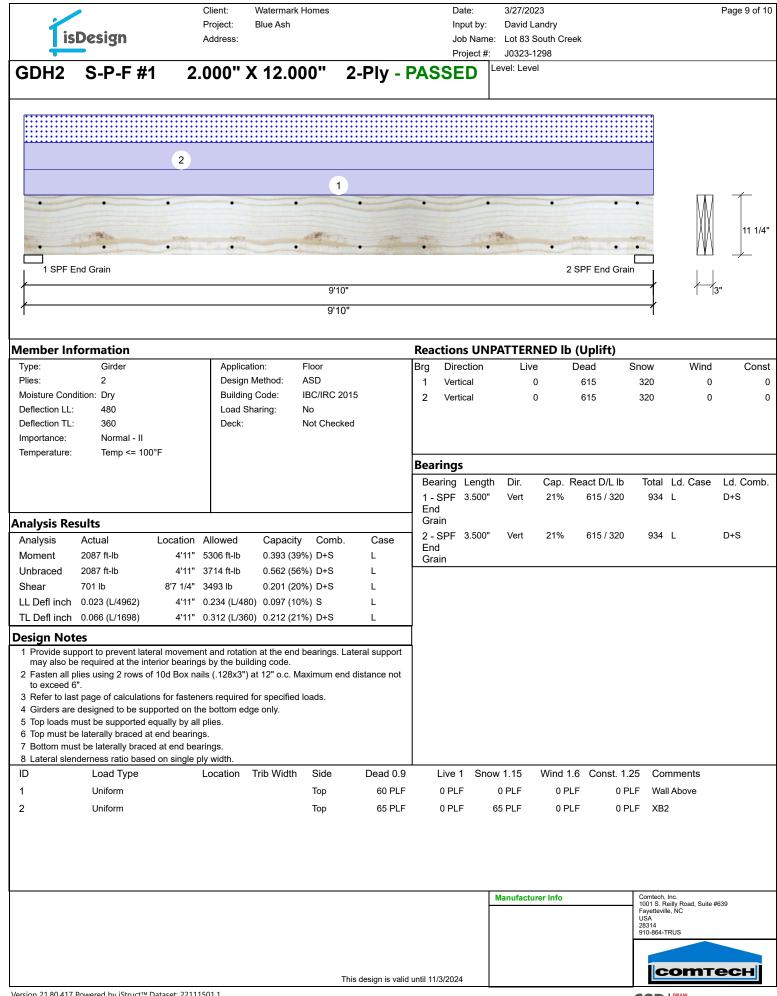
Ţ	sDesign	Client: Project: Address	Watermark H Blue Ash ::	lomes			Job	it by:	3/27/20 David L Lot 83 S J0323-1	andry South Cr	eek			Page 5 of
BM3	S-P-F #2	2.000"	X 10.000	" 2-P	ly - P/	ASS	ED	Le	evel: Leve					
	F End Grain	2 - 2 SPF End	Grain											9 1 9 1 3"
ſ	3'4"	1	1											
Nember I	nformation					Read	tions	UNP	ATTER	NED I	o (Uplift)			
Type: Plies: Moisture Co Deflection L Deflection T Importance:	L: 480 L: 360	Des Bui	ign Method: ding Code: d Sharing:	<sup>=</sup> loor ASD BC/IRC 2015 No Not Checked		Brg 1 2	Direct Vertica Vertica	al		e ) )	Dead 343 1097	Snow 343 1097	Wind 0 0	Cor
Temperature		:												
Analysis R	esults						iring L SPF 3	-	Dir. Vert	Cap. 15%	React D/L I 343 / 34		Ld. Case L	Ld. Com D+S
Analysis		ocation Allowe	d Capacity	Comb.	Case		SPF 3	.500"	Vert	49%	1097 / 109	07 2194	L	D+S
Moment	1326 ft-lb	2'6" 3946 ft-	b 0.336 (349	%) D+S	L	End Gra								
Unbraced	1326 ft-lb	2'6" 3834 ft-		-	L									
Shear LL Defl inc	1372 lb	2'3 1/4" 2872 lb '10 3/16" 0.072 (l	0.478 (489	-	L									
	(L/13169)													
		'10 3/16" 0.096 (l	/360) 0.055 (5%	) D+S	L	ļ								
may also 2 Fasten al to exceed	upport to prevent lateral be required at the interi I plies using 2 rows of 1 I 6".	or bearings by the 0d Box nails (.128	building code. ‹3") at 12" o.c. Ma	uximum end dis										
<ul><li>4 Girders a</li><li>5 Top loads</li><li>6 Top must</li><li>7 Bottom m</li></ul>	ast page of calculations re designed to be support s must be supported equ be laterally braced at en sust be laterally braced a enderness ratio based c	orted on the botton ually by all plies. nd bearings. at end bearings.		oads.										
ID	Load Type		n Trib Width	Side	Dead 0.9		Live 1	Snow	v 1.15	Wind	1.6 Const.	1.25 Co	omments	
1	Point	0-5-	4	Тор	56 lb		0 lb		56 lb	(	) lb	0 lb YE	1	
2	Point	2-6-	0	Тор	1384 lb		0 lb		384 lb Manufactu		) lb	0 lb B1	ı, Inc. Reillv Road. Suite ∄	4639
				This d	esign is valid	until 11/	3/2024					28314 910-864		есн

isDesign	Client: Watermark Homes Project: Blue Ash Address:	Input by:	e: Lot 83 South Creek	Page 6 of 10
BM3 S-P-F #2	2.000" X 10.000"		Level: Level	
• • • • • • • • • • • • • • • • • • •				↓
Multi-Ply Analysis	of 10d Box nails (.128x3") at 12"	o.c. Maximum end distance n	ot to exceed 6"	
Capacity Load	0.0 % 0.0 PLF 157.4 PLF			
Yield Limit per Fastener	78.7 lb.			
Edge Distance	1 1/2" 3"			
Load Combination	1.00			
			Manufacture 1.4	Constant Inc
			Manufacturer Info	Comtech, Inc. 1001 S. Reily Road, Suite #639 Fayetteville, NC USA 28314 910-864-TRUS
		This design is valid until 11/3/2024		соттесн



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			Client:	Watermark Home	s		Date:	3/27/2023	Page 8 of 1
1	isDesign		Project: Address:	Blue Ash			Input by: Job Name	David Landry e: Lot 83 South Creek	
-	ISDESIGI		Address.				Project #:	J0323-1298	
GDH	Kerto-S	LVL	1.750"	X 11.875"	2-Ply	- PASSE	D	Level: Level	
					j				
							•		
									<b>E</b> .
•	• •	•	• •	• •	• •	• •	•	• • •	···
		•			• •				
1 SPF	F End Grain							2 SPF End	Grain A
,					16110"				
,					16'10"				3 1/2"
1					16'10"				1
	y Analysis								
	Il plies using 2			(.128x3") at 12'	' o.c Maxim	um end dist	ance no	ot to exceed 6".	
Capacity Load		0.0 % 0.0 F							
Yield Limit p		163.	7 PLF						
Yield Limit p Yield Mode	per Fastener	81.9 IV	lb.						
Edge Distar		1 1/2	2"						
Min. End Di	istance	3"							
Load Comb Duration Fa		1.00							
Durution r u		1.00							
Notes			chemicals	tion	<ol> <li>For flat roofs pro ponding</li> </ol>	wide proper drainage	to prevent	Manufacturer Info	Comtech, Inc. 1001 S. Reilly Road, Suite #639 Fayetteville, NC
structural adeq design criteria	uctured Designs is responsibl quacy of this component ba a and loadings shown.	ased on the 1 It is the 2	. LVL beams must not be	e cut or drilled				Metsä Wood 301 Merritt 7 Building, 2nd Floor	USA 28314
responsibility o ensure the c	of the customer and/or the component suitability of the	contractor to	regarding installation fastening details, bear	urer's product information n requirements, multi-ply m strength values, and code				Norwalk, CT 06851 (800) 622-5850	910-864-TRUS
application, and Lumber	d to verify the dimensions and	l loads. 3	approvals . Damaged Beams must	not be used				www.metsawood.com/us	
1. Dry service	conditions, unless noted othe be treated with fire retardant	erwise <sub>E</sub>	<ul> <li>Design assumes top ec</li> <li>Provide lateral suppor lateral displacement an</li> </ul>	dge is laterally restrained rt at bearing points to avoid id rotation		valid until 11/2/00	124		соттесн
) Version 21.00	0.417 Powered by iStru				i nis aesign is	valid until 11/3/20	124		



is	Design	Clier Proj Add		Watermark Homes Blue Ash		l	Date: nput by: lob Name: Project #:	3/27/2023 David Landry : Lot 83 South Creek J0323-1298	Page 10 of
GDH2	S-P-F	#1 2.00	0" X	( 12.000"	2-Ply	- PASS	ED <sup>L</sup>	evel: Level	
•	•	•	•	•	•	•	•	• • •	
•	•	•	•	•	•	•	•	• • • -	
1 SPF E	nd Grain							2 SPF End Grain	
/				9'	10"				<b>i</b>
ł				9'	10"				1
Yield Limit per F Yield Limit per F Yield Mode Edge Distance Min. End Distanc Load Combinatio Duration Factor	astener	0.0 PLF 157.4 PLF 78.7 lb. IV 1 1/2" 3" 1.00							

Manufacturer Info	Comtech, Inc. 1001 S. Reilly Road, Suite #639 Fayetteville, NC USA 28314 910-864-TRUS
	соттесн