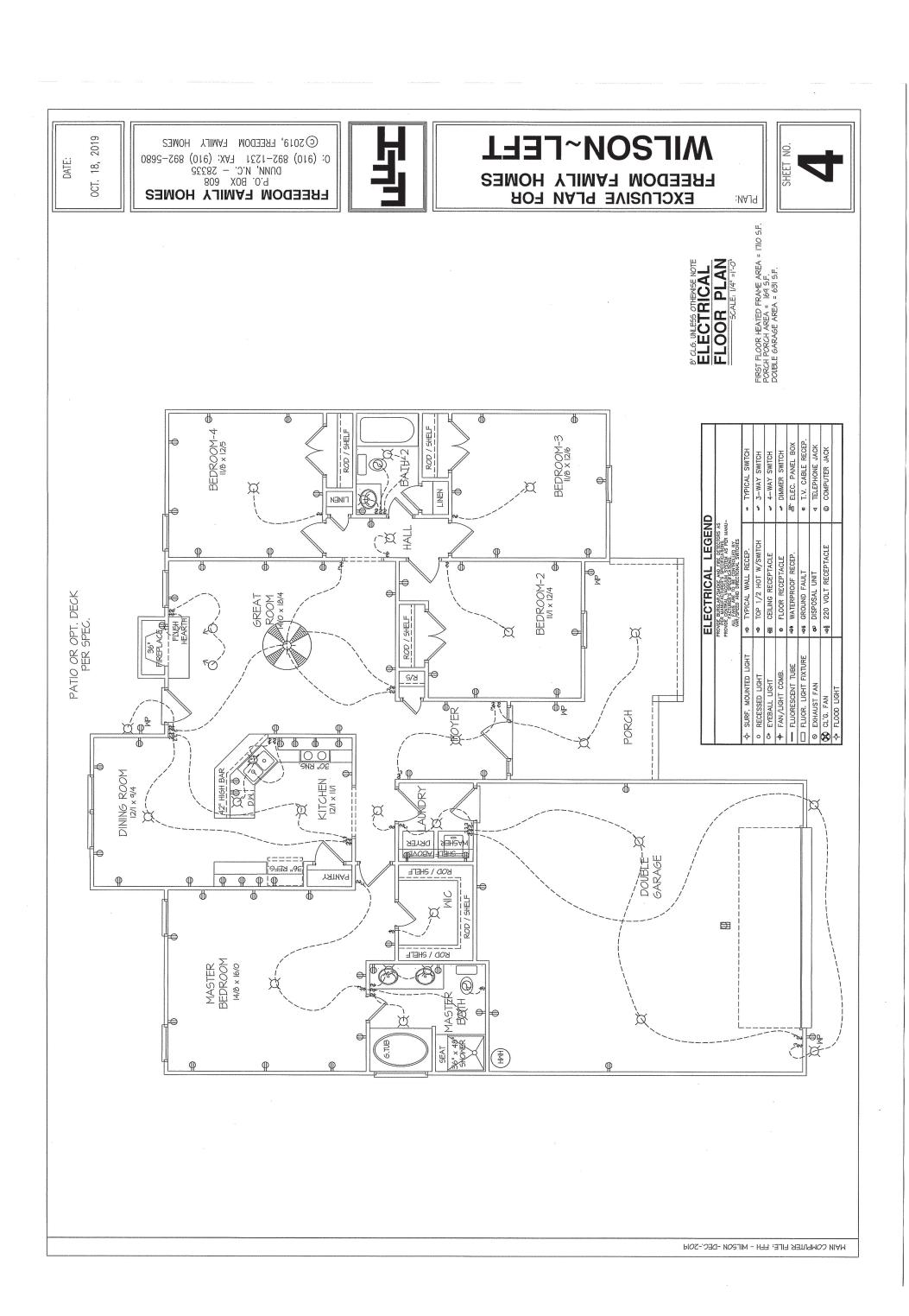
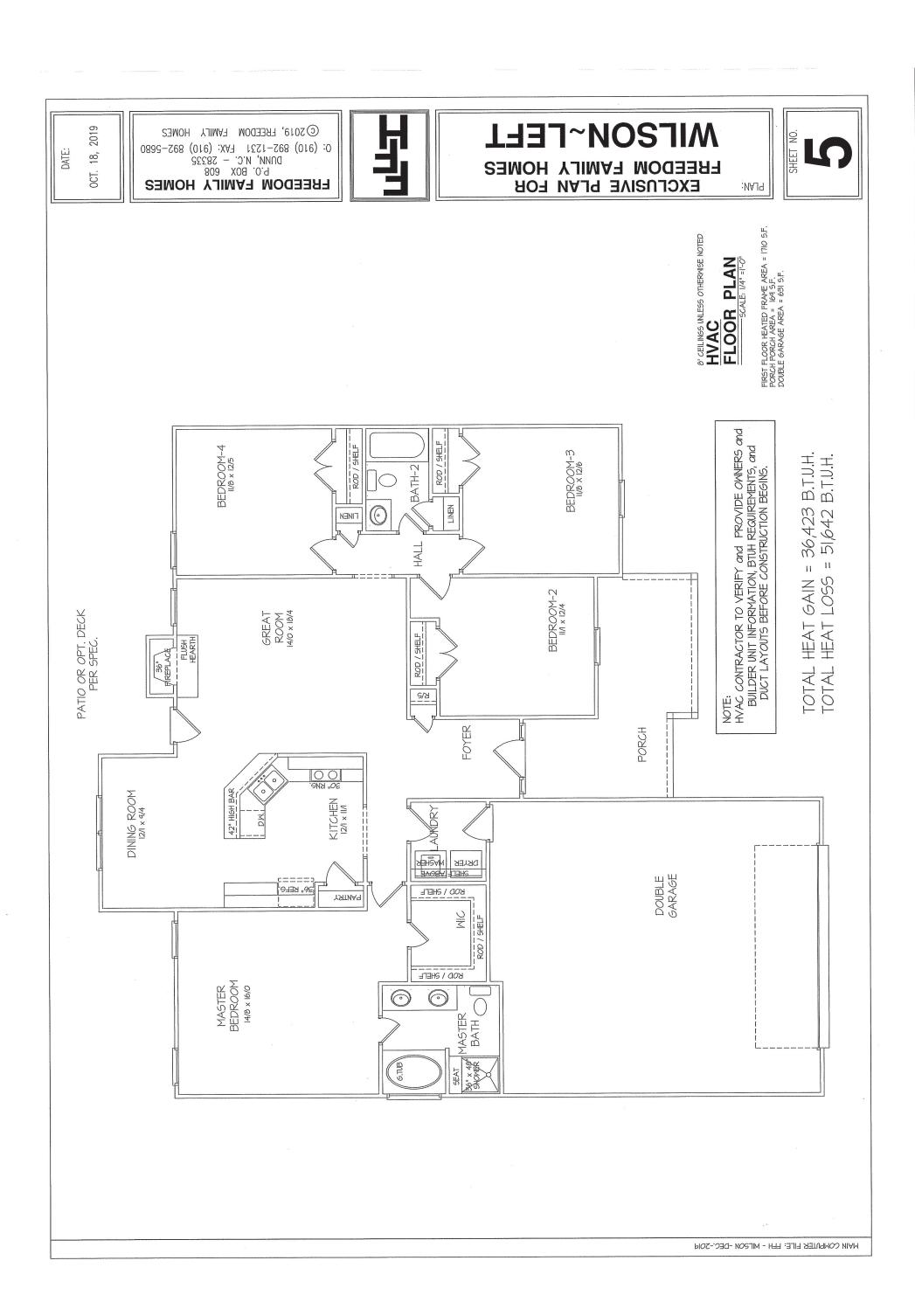
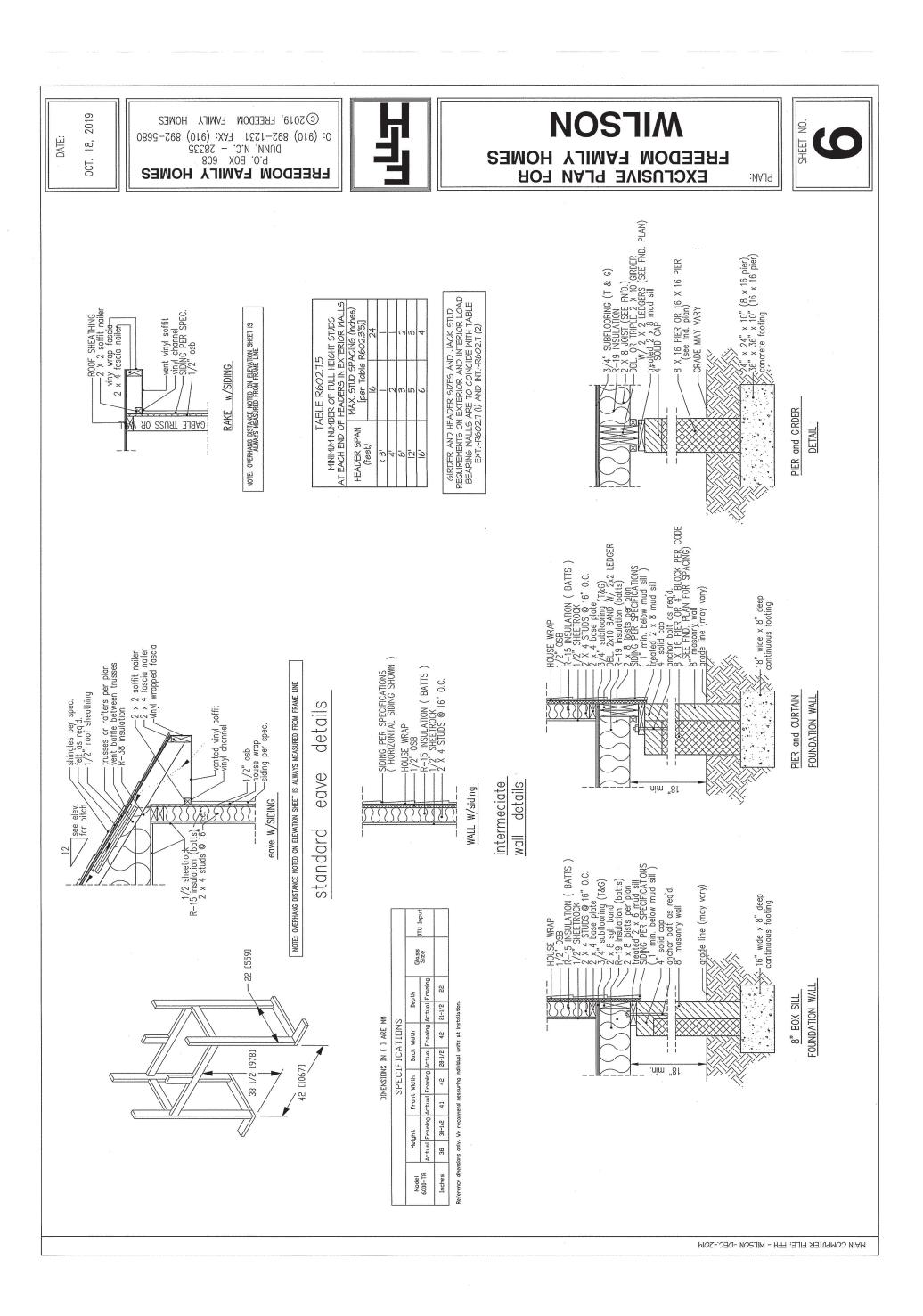
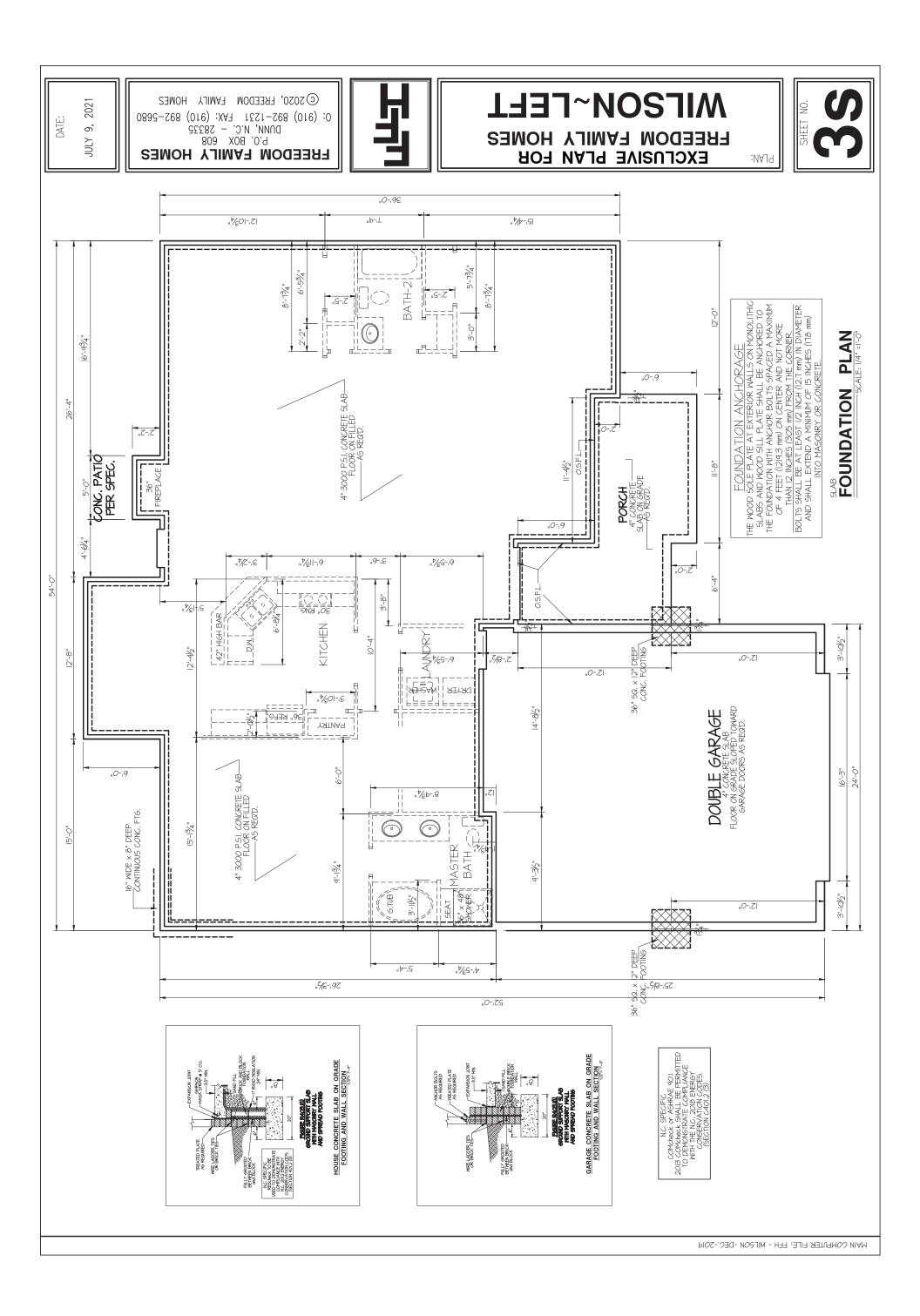


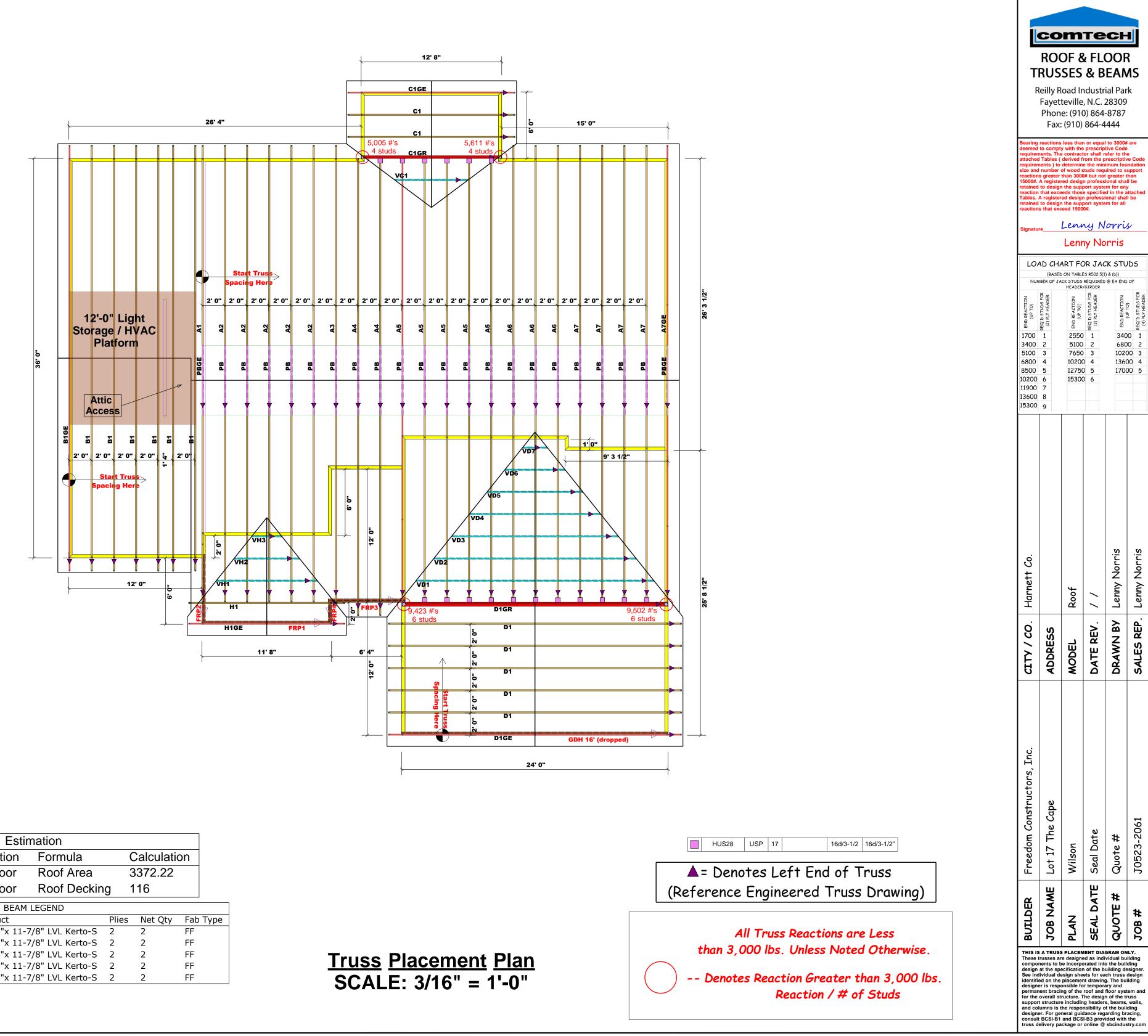
"O-,9		εΣ₁~O _u			
WIND ZONES (PER TABLE R301.2(4)COUNTYMPHLONTYMPHHARNETT120JOHNSTON120SAMPSON130MAKE115	HEADER SCHEDULE SYMBOL # SIZE JACKS H-I (2) 2xIO 1 H-3 (2) 2xIO 2 H-4 (2) 2xIO 2 H-5 (2) 1.75 × 9.25 LVL 3 ALL EXTERIOR WALLS TO BE 2 H-5 (2) 1.75 × 9.25 LVL 3 ALL EXTERIOR WALLS TO BE 2 SHEATHED WITH CS-WSP (7/16" OSB) IN ACCORDANCE WITH SECTION R602.IO.3 UNLESS OTHERWISE NOTED. R602.IO.3 UNLESS OTHERWISE NOTED. GIRDER AND HEADER SIZES AND JACK STUD REGUIREMENTS ON EXTERIOR MALLS TO BE R602.IO.3 UNLESS OTHERWISE NOTED. EXT->R602.1 (1) AND INT->R602.1 (2).		MINIMUM NUMBER OF FULL HEIGHT STUDS AT EACH END OF HEADERS IN EXTERIOR WALLS HEADER SPAN [for Trable R602.3(5)] (feet) [6 24 24 4' 3 2 1 1 4' 3 2 8' 2 1 6' 5 3 2 1 1 1 1 4' 1 6' 24 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	EECTION R407-COLUMNS EECTION R407-COLUMNS R407.3 STRUTURAL REGUREMENTS. THE COLUMNS SHALL BE RESTRAINED TO PREVENT LATERAL DISFLACEMENT AT THE TOP AND BOTTOM END. MOOD COLUMNS SHALL BE NOT LESS IN NOMINAL SIZE THAN A INCHES BY 4 INCHES (0.2 mm b) 2 mm/. STELE. COLUMNS SHALL BE NOT LESS THAN 3-INCHEDIAMETER (16 mm) SCHEDULE 40 PREV ANIFACTURED IN ACCORDANCE MITH ASTI ASTS GRADE B OR APPROVED EQUIVALENT. FRAME CONSTRUCTION, COMPLYTING SECTION R602.10.1 AND FIGURE-R602.10.1 METHOD PFG FIGURE-R602.10.1 METHOD PFG	
				DWPUTER FILE: FFH - WILSON -DEC2019	DO NIAM



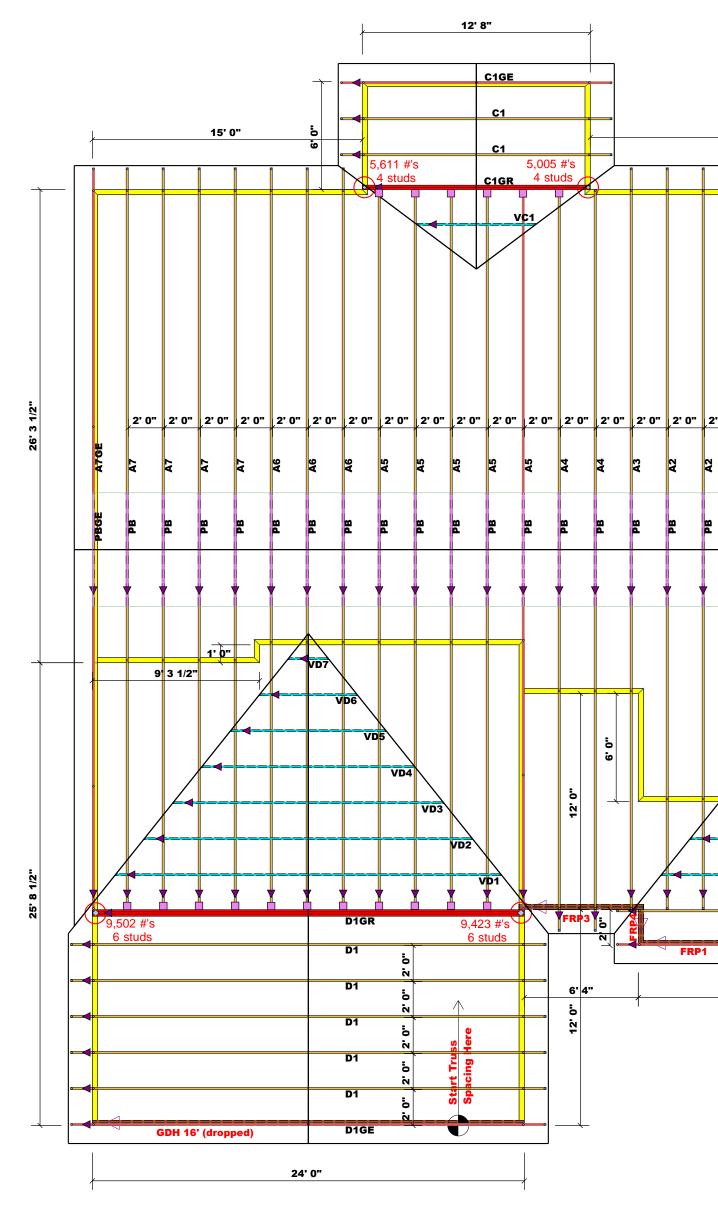








			Esti	mation				
	Name		Selection	Formula	(Calculati	on	
	Roof Area		1st Floor	Roof Area		3372.22		
	Roof Decl	king	1st Floor	Roof Decki	ng ´	116		
			BEAM	LEGEND				
PlotIC)	Length	Product		Plies	Net Qty	Fab Ty	ype
GDH	16' (dropped)	24' 0"	1-3/4"x 11-	7/8" LVL Kerto-S	2	2	FF	
FRP1		12' 0"	1-3/4"x 11-	7/8" LVL Kerto-S	2	2	FF	
FRP2		7' 0"	1-3/4"x 11-	7/8" LVL Kerto-S	2	2	FF	
FRP3		7' 0"	1-3/4"x 11-	7/8" LVL Kerto-S	2	2	FF	
FRP4		3' 0"	1-3/4"x 11-	7/8" LVL Kerto-S	2	2	FF	



			Esti	mation			
	Name		Selection	Formula	(Calculati	on
	Roof Area	a 🛛	1st Floor	Roof Area	3	3372.22	
	Roof Decl	king	1st Floor	Roof Deckir	ng ´	116	
			BEAM	LEGEND			
PlotIC)	Length	Product		Plies	Net Qty	Fab Type
GDH	16' (dropped)	24' 0"	1-3/4"x 11-	7/8" LVL Kerto-S	2	2	FF
FRP1		12' 0"	1-3/4"x 11-	7/8" LVL Kerto-S	2	2	FF
FRP2		7' 0"	1-3/4"x 11-	7/8" LVL Kerto-S	2	2	FF
FRP3		7' 0"	1-3/4"x 11-	7/8" LVL Kerto-S	2	2	FF
FRP4		3' 0"	1-3/4"x 11-	7/8" LVL Kerto-S	2	2	FF

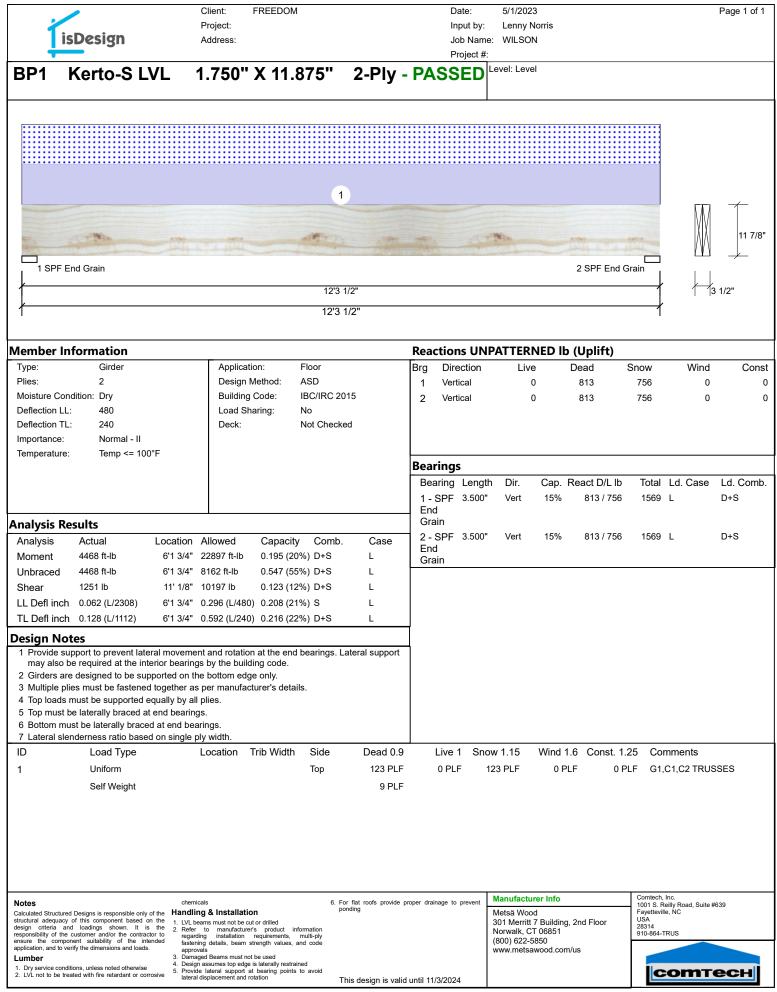
<u>Truss</u> <u>Placement</u> SCALE: 3/16" = 1

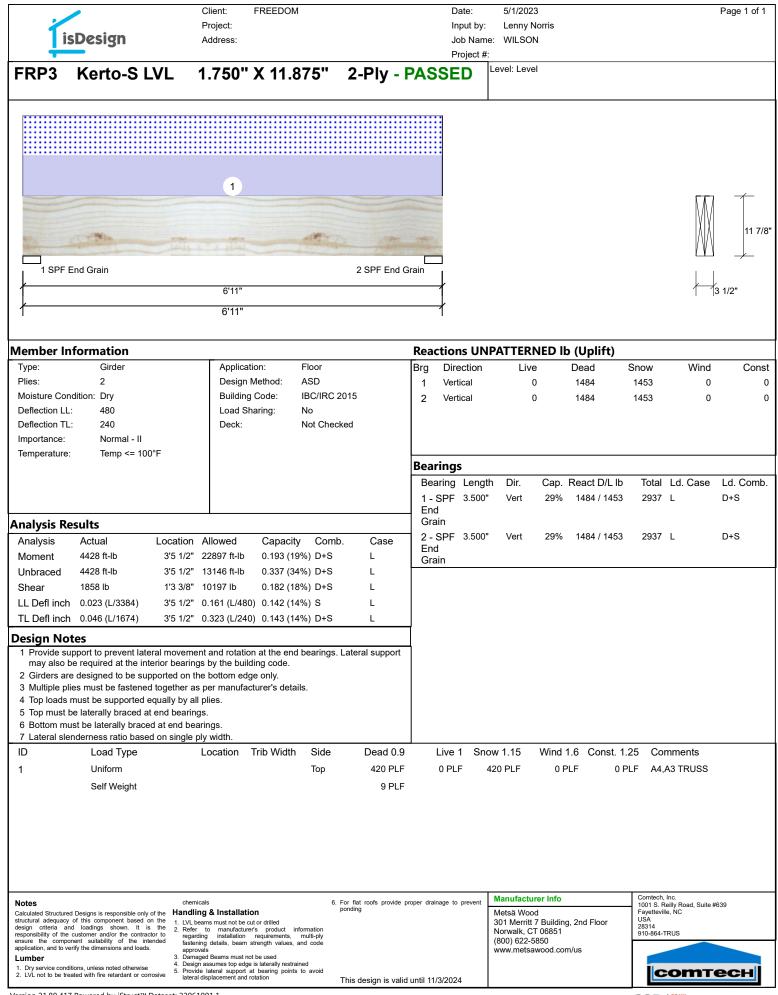
26'4" 26'4" 26'4" 2'0" 2'0" 2'0" 2'0" 2 8 8 8 8 8 9 1 1 10 1 10	2'-0" Light rage / HVAC Platform	Bearing r deemed t requirem attached reactions 15000#. A reactions Signature NUME NUME R LOA NUME R 1700 3400	ROC RUS eilly R Fayett Phone Fax: reactions to comply ents. The Tables (greater of A register to design that exce to design that exce (BASED BER OF JA (BASED BER OF JA (BASED BER OF JA (C) 1 2 3 4 5 6 7 8	DF & SES oad Ir reville e: (910 (910) less thar r with the contract derived f determin of wood s than 3000 ed dosign the supp eed 1500 Lenr Lenr NRT FC ON TABLE	prescrip or shall r for shall r for shall r for shall r for shall r for shall r for syste of syste syste of syste of syste syste syste syste syste syste syste syste syste syste syste syste syste syste	DOF EAN ial Par 28309 -8787 444 to 3000# to 3000# to 3000# to 3000# to 3000# to 444 to 3000# to 3000# to 444 to 3000# to 444 to 3000# to 3000# to 444 to 3000# to 3000# to 300 greater to the rescription on al shall m for any d in the a onal shall m for all 00000 CCCCC a (b)) @ EA END CCCCCC a (b)) @ EA END	AS AS k tare
VH3 N VH2		CITY / CO. Harnett Co.	ADDRESS	MODEL Roof	DATE REV. / /	DRAWN BY Lenny Norris	SALES REP. Lenny Norris
	HUS28 USP 17 16d/3-1/2 16d/3-1/2" Image: Second state s	Freedom Constructors, Inc.	Lot 17 The Cape	Wilson	Seal Date	Quote #	J0523-2061
<u>t Plan</u> 1'-0"	(Reference Engineered Truss Drawing) All Truss Reactions are Less than 3,000 lbs. Unless Noted Otherwise. Denotes Reaction Greater than 3,000 lbs. Reaction / # of Studs	These tr compon design a See indi identifie designe for the c support and colu designe consult	russes an eents to b at the spec- ividual de d on the r is respo- ent bracin overall stu- structure umns is t r. For ger BCSI-B1	e designe e incorpo cification sign she placemen nsible fo ucture. T e includin he respon neral guic and BCS	EXAMPLE IDENT DIAL de as indi- or ated in this of the b ets for easi of the b ets for easi of and the design g header: nsibility of lance reg l-B3 provo online @	vidual bu o the build uilding de ch truss o g. The build rry and floor syst n of the tr s, beams, f the build arding br ided with	ilding ding ssigner. design ilding tem and russ , walls, ding acing, the

			Project:	REEDOM			Date Inpu	t by:	5/1/2023 Lenny No	orris				Page 1 c
IS	Design		Address:						WILSON					
		\/I	4 7501	V 44 0	7511 (ect #:	vel: Level					
BP3 I	Kerto-S L	VL '	1./50	X 11.8	/5 2	2-Piy -	PASSE	: D	20101					
			1											
													\overline{M}	\uparrow
	C. P. Mar			_	14/10/20	- Art							ЦЩ	11
	and Grain				2 SPF End	d Grain								
k			6'3 1/2"											, 3 1/2"
ſ			6'3 1/2"			1								
	formation						Reactions							
Type:	Girder		Application		loor		Brg Direct		Live		Dead	Snow	Wind	Co
Plies: Moisture Cond	2 dition: Dry		Design M Building		SD 8C/IRC 2015		1 Vertica		0		526	497	0	
eflection LL:			Load Sha				2 Vertica	I	0		526	497	0	
eflection TL:			Deck:	-	o ot Checked									
nportance:	Normal - II		Dook.											
emperature:	Temp <= 10	0°F												
omportataro.	ionip io	•					Bearings							
							Bearing L	enath	Dir.	Cap F	React D/L lb	Total	Ld. Case	Ld. Co
							1 - SPF 3.	-	Vert	10%	526 / 497	1023		D+S
							End				, 101	. 520	-	_ 5
nalysis Re	sults						Grain							
Analysis	Actual	Location	Allowed	Capacity	Comb.	Case	2 - SPF 3.	500"	Vert	10%	526 / 497	1023	L	D+S
/loment	1383 ft-lb	3'1 3/4"	22897 ft-lb	0.060 (6%)	D+S	L	End Grain							
Inbraced	1383 ft-lb	3'1 3/4"	14335 ft-lb	0.097 (10%) D+S	L								
Shear	616 lb	5' 1/8"	10197 lb	0.060 (6%)	D+S	L								
L Defl inch	0.006	3'1 3/4"	0.146 (L/480)			L								
	(L/11519)			. ,										
	0.013 (L/5596)	3'1 3/4"	0.292 (L/240)	0.043 (4%)	D+S	L	-							
	t es pport to prevent late	eral moveme	nt and rotation	at the end be	earings. Late	ral support	-							
		terior bearing	gs by the buildi	ng code.	0									
1 Provide su may also b	e required at the in	pported on th	•											
1 Provide su may also b 2 Girders are	e designed to be su	d together as	, por manurabl	a. o. o uotalio.										
1 Provide sup may also b 2 Girders are 3 Multiple plie		•	plies.											
 Provide sup may also b Girders are Multiple plie Top loads r Top must b 	e designed to be su es must be fastene must be supported e laterally braced a	equally by all it end bearing	js.											
1 Provide su may also b 2 Girders are 3 Multiple plie 4 Top loads r 5 Top must b 6 Bottom must	e designed to be su es must be fastene must be supported e laterally braced a st be laterally brace	equally by all It end bearing ed at end bea	gs. arings.											
1 Provide su may also b 2 Girders are 3 Multiple plie 4 Top loads r 5 Top must b 6 Bottom mu 7 Lateral sler	e designed to be su es must be fastene nust be supported e laterally braced a st be laterally braced nderness ratio base	equally by all It end bearing ed at end bea	gs. arings. bly width.	rih Width	Side	Dead 0.0		Snow	1 15	Wind 1	6 Const 1	25 000	mente	
may also b 2 Girders are 3 Multiple plie 4 Top loads r 5 Top must b 6 Bottom mu 7 Lateral sler D	e designed to be su es must be fastene nust be supported le laterally braced a st be laterally brace nderness ratio base Load Type	equally by all It end bearing ed at end bea	gs. arings. bly width.	rib Width	Side	Dead 0.9	Live 1	Snow			.6 Const. 1		mments	
1 Provide su may also b 2 Girders are 3 Multiple plie 4 Top loads r 5 Top must b 6 Bottom mu 7 Lateral sler	e designed to be su es must be fastene nust be supported e laterally braced a st be laterally braced nderness ratio base	equally by all It end bearing ed at end bea	gs. arings. bly width.	rib Width	Side Top	Dead 0.9 158 PLF 9 PLF	Live 1 0 PLF		1.15 3 PLF	Wind 1. 0 PL			mments TRUSS	

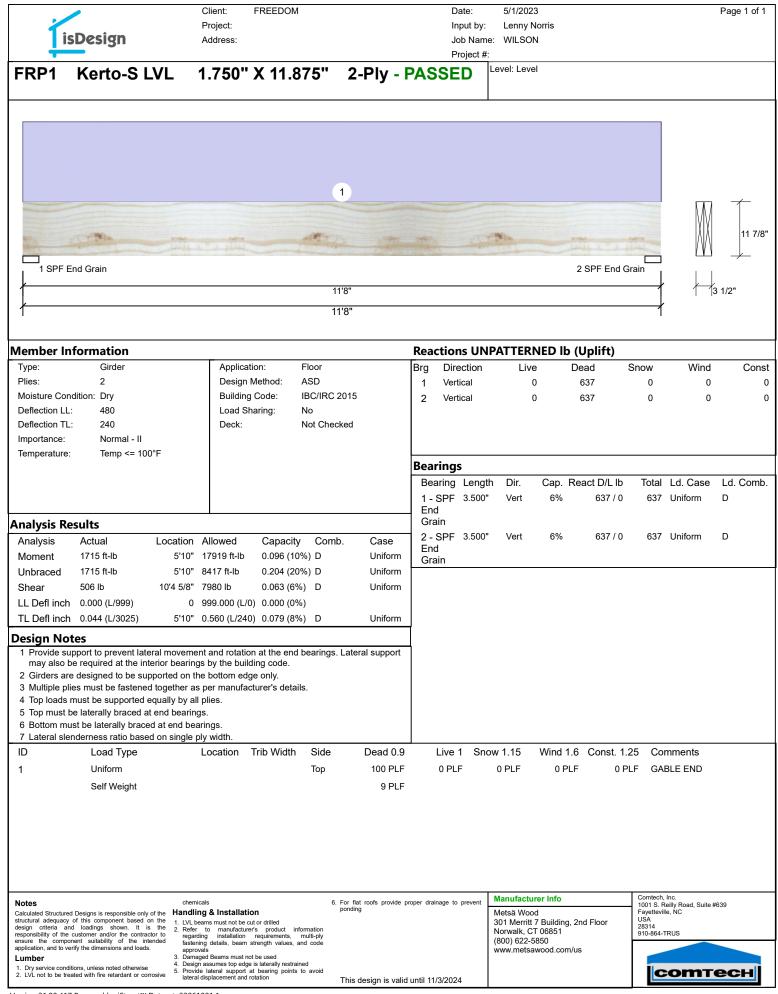
CSD BUILD

i	sDesign	Project: Address:			Lenny Norris WILSON				
BP2	Kerto-S LVL	1.750" X 11.875"	2-Ply -	Project #:	evel: Level				
		1							
								M	1
	C. C. Maria		3 The	The state		Pharas		M	11 7/8
1 SPF E	nd Grain					2 SPF End (Grain		
, 		14'						3	1/2"
	nformation			Reactions UNP		-	_		
Type: Plies:	Girder 2	Application: Floor Design Method: ASD		Brg Direction 1 Vertical	Live 0	Dead 765	Snow 0	Wind 0	Co
Moisture Cor	•	Building Code: IBC/IRC 2015	5	2 Vertical	0	765	0	0	
Deflection LL Deflection TL		Load Sharing: No Deck: Not Checked	ł						
Importance:	Normal - II								
[emperature:	: Temp <= 100°F								
				Bearings		D (D/)	- - - -		
				Bearing Length 1 - SPF 3.500"	Dir. Cap. Vert 7%	React D/L lb 765 / 0		Ld. Case Uniform	Ld. Cor D
nalysis Re	oculto			End Grain					
Analysis		tion Allowed Capacity Comb.	Case	2 - SPF 3.500"	Vert 7%	765 / 0	765	Uniform	D
Moment	2504 ft-lb	7' 17919 ft-lb 0.140 (14%) D	Uniform	End Grain					
Unbraced	2504 ft-lb	7' 7212 ft-lb 0.347 (35%) D	Uniform						
Shear		3/8" 7980 lb 0.079 (8%) D	Uniform						
	n 0.000 (L/999) n 0.092 (L/1775) 7' 1/	0 999.000 (L/0) 0.000 (0%) /16" 0.677 (L/240) 0.135 (14%) D	Uniform						
esign No	. ,			1					
1 Provide su	upport to prevent lateral mov	vement and rotation at the end bearings. Late	teral support	1					
	e designed to be supported	earings by the building code. on the bottom edge only.							
	lies must be fastened togeth must be supported equally	ner as per manufacturer's details. by all plies							
	be laterally braced at end be	earings.							
4 Top loads	ust be laterally braced at en								
4 Top loads 5 Top must l 6 Bottom mu				Live 1 Snov	v 1.15 Wind	1.6 Const. 1.	25 Co	mments	
4 Top loads5 Top must l6 Bottom mu7 Lateral sle	enderness ratio based on sir Load Type	Location Trib Width Side	Dead 0.9	Live I Show					
4 Top loads 5 Top must l 6 Bottom mu	enderness ratio based on sir		Dead 0.9 100 PLF	0 PLF	0 PLF 0 F	PLF 0 P	LF GA	BLE END	

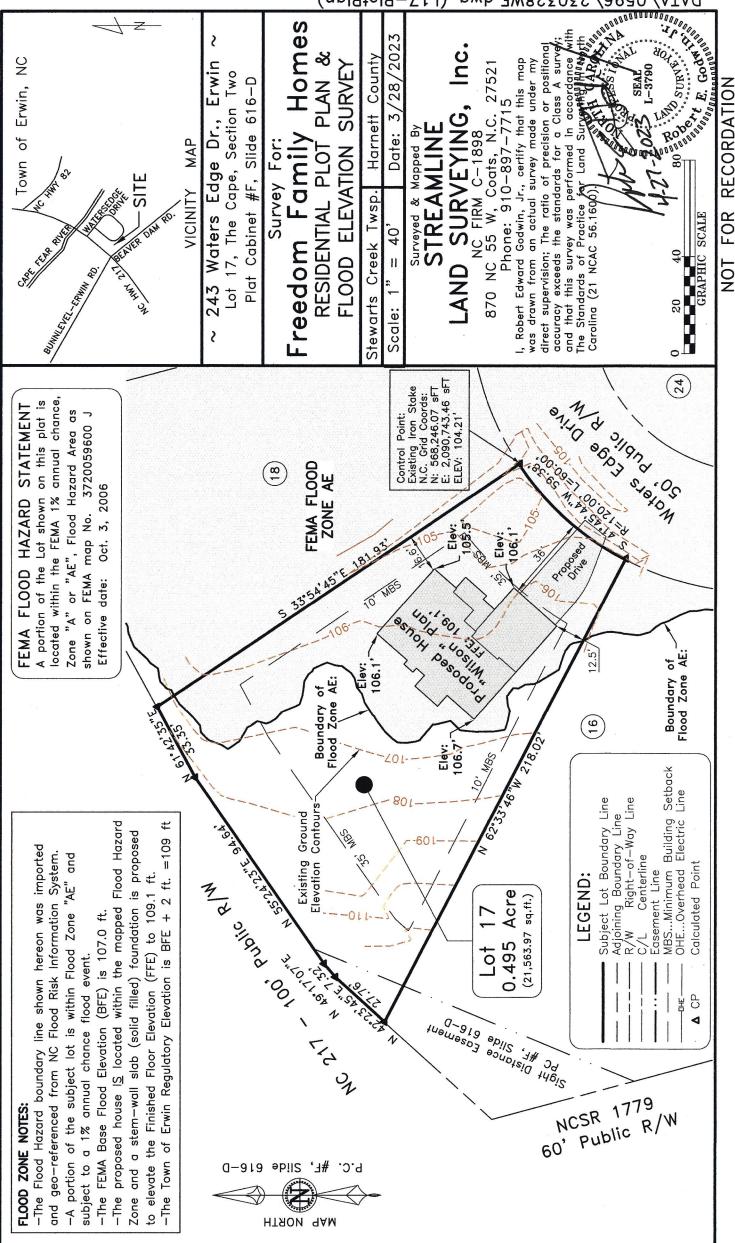




			Client: I Project:	FREEDOM				Date: Input I	by:	5/1/202 Lenny I	lorris				Page 1 of
ĬS	Design		Address:					Job N Projec		WILSO	N				
FRP4	Kerto-S L	.VL 1	.750"	X 11.87	'5''	2-Ply -	PAS			evel: Leve	el				
	1 nd Grain 2 SPF End Grain 2'3 1/2" 2'3 1/2"														
Vember Inf							Pop	tions	INID	ATTED		(Uplift)			
Type:	Girder		Applicatio	on: F	loor		Brg	Directic		Live) (Uplift) Dead	Snow	Wind	Con
Plies: Moisture Conc Deflection LL: Deflection TL: Importance:	2 dition: Dry 480 240 Normal - II		Design M Building (Load Sha Deck:	lethod: A Code: IE aring: N	SD 3C/IRC 201		1 2	Vertical Vertical))	162 162	151 151	0	
Temperature:	Temp <= 100)°F					Boo	rings							
							Bea	aring Lei SPF 3.5	-	Dir. Vert	Cap. 3%	React D/L 162 / 15		Ld. Case L	Ld. Com D+S
Analysis Re	sults						Gra	in							
Analysis	Actual	Location		Capacity	Comb.	Case	2 - Enc	SPF 3.5 1	500"	Vert	3%	162 / 15	51 313	L	D+S
Moment Unbraced	115 ft-lb 115 ft-lb		22897 ft-lb 22013 ft-lb	0.005 (1%) 0.005 (1%)		L	Gra								
Shear	28 lb	1'3 3/8"		0.003 (1%)		L									
LL Defl inch	(L/116983)	1'1 13/16"	0.046 (L/480)	0.004 (0%)	S	L									
TL Defl inch	0.000 (L/56514)	1'1 13/16"	0.092 (L/240)	0.004 (0%)	D+S	L									
may also be 2 Girders are 3 Multiple plie 4 Top loads n 5 Top must be 6 Bottom mus 7 Lateral slen	port to prevent late e required at the int designed to be sup as must be fastened nust be supported e e laterally braced at the laterally brace iderness ratio base	erior bearings oported on the I together as equally by all end bearing: d at end bear d on single pl	by the buildi bottom edge per manufact blies. s. ings. y width.	ng code. ∋ only. urer's details.											
ID 1	Load Type Uniform	I	_ocation T	rib Width	Side Top	Dead 0.9 132 PLF		Live 1 \$ 0 PLF		2 PLF	Wind ² 0 P	1.6 Const.		mments	s
I	Self Weight				ioh	9 PLF		VFLF	13.	∠ ┌ ∟┌	υP	Lſ	VFLF HI	, TIGE IRUS	
structural adequacy of design criteria and	Designs is responsible only of this component based o loadings shown. It is ustormer and/or the contract	n the 1. LVL bea the 2. Refer		or drilled s product inforr	pon nation	flat roofs provide p ding	roper drai	nage to preve	Ann A 3	fanufactu fetsä Woo 01 Merritt lorwalk, C	d 7 Building	J, 2nd Floor	Comtect 1001 S. Fayettev USA 28314 910-864	Reilly Road, Suite a ille, NC	¥639



lis	Design	Р	Client: Project: .ddress:	FREEDOM				Date: Input by: Job Nam Project #	e: WILSOI	lorris				Page 1 of
FRP2	Kerto-S LV	′L 1	.750"	X 11.87	'5'' 2	2-Ply - F	PASS	ED	Level: Leve					
	2			1										11 7
	nd Grain				2 SPF E	nd Grain								-/
<u>}</u>		6'3	3 1/2"											, 3 1/2"
<u>}</u>		6'3	3 1/2"			ł								
Nember In	formation							ons UN	PATTER	NED Ib	(Uplift)			
Type: Plies:	Girder 2		Applicati Design N		oor SD		Ĭ	Direction Vertical	Live		Dead	Snow	Wind 0	Co
Moisture Cond			Building		SD SC/IRC 201	5	-	ertical /ertical	(527 424	184 80	0	
Deflection LL:	-		Load Sha		0			ortioui	·				0	
Deflection TL:			Deck:	N	ot Checked									
Importance: Temperature:	Normal - II Temp <= 100°F													
remperature.	100 F						Bearir	as						
							-	ng Lengt	h Dir.	Cap. I	React D/L II	o Total	Ld. Case	Ld. Com
								F 3.500'		7%	527 / 184		L	D+S
							End Grain							
Analysis Re		ocation A	llawad	Consoitu	Carab			F 3.500'	Vert	5%	424 / 8	504	L	D+S
Analysis Moment	Actual L 1044 ft-lb		2897 ft-lb	Capacity 0.046 (5%)	Comb. D+S	Case L	End	-						
Unbraced	1044 ft-lb		4335 ft-lb	0.073 (7%)		L	Grain							
Shear	581 lb	1'3 3/8" 1		0.057 (6%)		L								
LL Defl inch		4 13/16" 0	.146 (L/480)	0.016 (2%)		L								
	(L/30093)		000 (1 /0 /0)		D . 0									
		2'9 9/16" 0	.292 (L/240)	0.030 (3%)	D+S	L								
Design Not							4							
may also bo 2 Girders are 3 Multiple plie 4 Top loads n 5 Top must b 6 Bottom must	oport to prevent lateral e required at the interi- designed to be suppor- es must be fastened to nust be supported equ e laterally braced at er at be laterally braced a derness ratio based o	or bearings orted on the ogether as p ally by all p and bearings at end bearing	by the build bottom edg er manufact lies. ngs.	ing code. e only.	-									
ID	Load Type			Frib Width	Side	Dead 0.9	Liv	e 1 Sno	ow 1.15	Wind 1	.6 Const.	1.25 Co	mments	
1	Uniform				Тор	100 PLF	0	PLF	0 PLF	0 Pl	_F 0	PLF GA	BLE END	
2	Point		2-0-0		Тор	264 lb		0 lb	264 lb	0	lb	0 lb H1	TRUSS	
	Bearing Length		0-3-8											
	Self Weight					9 PLF								
									Manufactu	rer Info		Comtech	Inc.	
	Designs is responsible only of th		s & Installatio	n	6. For pond	flat roofs provide pi ling	roper drainage	e to prevent	Manufactu Metsä Woo			1001 S. F Fayettevi	Reilly Road, Suite #	639
structural adequacy of design criteria and	of this component based on the loadings shown. It is the customer and/or the contractor	ne 1. LVL bean ne 2. Refer t	ns must not be cut o manufacturer	t or drilled 's product inform	nation				301 Merritt Norwalk, C	7 Building, F 06851	2nd Floor	USA 28314 910-864-	TRUS	
ensure the compon	customer and/or the contractor the suitability of the intended ify the dimensions and loads.		details, beam st	requirements, mu trength values, and					(800) 622-5 www.metsa	850	/us	510-004-		
Lumber		Damaged	d Beams must not	be used is laterally restrained										
	ons, unless noted otherwise	 Design a. 	sources top cuge	bearing points to									omt	



(nbl91019-71) gwb.3W822022/9620/ATAD