Truss Placement Plan SCALE: NTS

= Indicates Left End of Truss (Reference Engineered Truss Drawing) Do NOT Erect Truss Backwards

LO	AD CH	HART FO	RJAC	K STUD	5
		TO USE TABLES			
422	eles ce	PEADEAN		BEAUSO	
601 MAGNION (UP 10)	REGYS STRIBS FOR	SECTION SECTION	SECTION FOR FOR DISTRIBUTION FOR	DESERVITOR (OF TO)	400 STUDY POR
1700	1	2550	1	3400	1
3400	2	5100	2	6800	2
5100	3	7650	3	10200	3
6800	4	10200	4	13600	4
8500	5	12750	5	17000	5
10200	6	15300	6		
11900	7				
13600	8				

			SCALE: NTS	
BUILDER	PBS/R&D INVESTMENTS	CITY / CO.	DUNN / Johnston	THIS These the box
JOB NAME	STRICKLAND GARAGE	ADDRESS	38 WILLOWCROFT COURT	is resp the over walls, repard
PLAN	35X35	MODEL	FLOOR	Bende pense
SEAL DATE	Seal Date	DATE REV.	04/30/24	presco (deriv found than 3 be ret
QUOTE#	B0424-2524	DRAWN BY	Michael Turner	specifi rotalni
JOB#	J0424-2524	SALES REP.	Paul Hawkins	Stg

the circuit students. The daily of the least support insteads whether the circuit students. The daily of the least support insteads whether the circuit students whether the circuit students are the expension of the burbles privative. For general publicate or closed \$4.500.000 and the circuit students whether the circuit students are considered as the circuit students whether the circuit stu

Michael Turner



Reilly Road Industrial Park Fayetteville, N.C. 28309 Phone: (910) 864-8787 Fax: (910) 864-4444 Client:

Project: Address: Date:

6/26/2024

Joe Ciferni

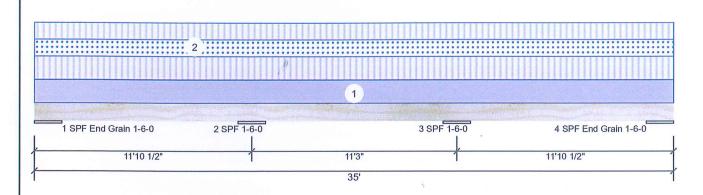
Input by: Job Name: Project #:

onCENTER 2.1E LVL

1.750" X 11.875"

2-Ply - PASSED

Level: Level



Floor

ASD

No

IRC 2018

Not Checked

11 7/8"

3 1/2"

Page 1 of 1

Member Information

Type: Girder Plies: 2 Moisture Condition: Dry Deflection LL:

Deflection TL: 240 Importance: Normal - II

Temperature: General Load Floor Live:

Dead:

40 PSF 12 PSF

Temp <= 100°F

Reactions UNPATTERNED Ib (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	4774	2843	1999	0	0
2	Vertical	10276	6118	4301	0	0
3	Vertical	10276	6118	4301	0	0
4	Vertical	4774	2843	1999	0	0

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case	
Neg Moment	-17648 ft-lb	11'10 1/2"	21278 ft-lb	83%	D+L	LL_	
Unbraced	-17648 ft-lb	11'10 1/2"	17675 ft-lb	100%	D+L	LL_	
Pos Moment	13813 ft-lb	5'11 1/16"	21278 ft-lb	65%	D+L	L_L	
Unbraced	13813 ft-lb	5'11 1/16"	13835 ft-lb	100%	D+L	L_L	
Shear	6465 lb	10'1 5/8"	7897 lb	82%	D+L	LL_	
LL Defl inch	0.208 (L/602)	28'6 3/4"	0.261 (L/480)	80%	0.75(L+S)	L_L	
TL Defl inch	0.293 (L/428)	6'4 3/16"	0.522 (L/240)	56%	D+0.75(L+S)	L_L	

Application:

Design Method:

Building Code:

Load Sharing:

Deck:

Bearings

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	18.000"	Vert	18%	2833 / 5550	8383	L_L	D+0.75(L+S)
2 - SPF	18.000"	Vert	67%	6128 / 11699	17827	LL_	D+0.75(L+S)
3 - SPF	18.000"	Vert	67%	6128 / 11699	17827	_LL	D+0.75(L+S)
4 - SPF End Grain	18.000"	Vert	18%	2833 / 5550	8383	L_L	D+0.75(L+S)

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Girders are designed to be supported on the bottom edge only.
- 3 Multiple plies must be fastened together as per manufacturer's details.
- 4 Top loads must be supported equally by all plies.
- 5 Top must be laterally braced at a maximum of 6'2 15/16" o.c.
- 6 Bottom must be laterally braced at a maximum of 4'3 1/2" o.c.

ı	/ Lateral siend	erness ratio based on single	piy wiath.									
	ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments	
	1	Uniform			Тор	500 PLF	500 PLF	0 PLF	0 PLF	0 PLF	Floor Truss Above	
	2	Uniform			Тор	0 PLF	360 PLF	360 PLF	0 PLF	0 PLF	Roof Truss Above	
		Salf Waight				12 DI E						

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the cintended application, and to verify the dimensions and loads.

Lumber

Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

chemicals

Handling & Installation

Training & Installation

1. LVL beams must not be cut or drilled

2. Refer to manufacturer's product information regarding installation requirements, multi-pily fastening details, beam strength values, and code approvals

3. Damaged Beams must not be used

4. Dosign assumes top edge is laterally restrained

5. Provide lateral support at bearing points to avoid lateral displacement and rotation

For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

BlueLinx 1950 Spectrum Circle, Suite 300 Marietta, GA 30067 877-914-7770 www.buildoncenter.com ICC-ES: ESR-2909, ESR-2913, ESR-1210

Professional Builders Supply 3941 US Hwy. 421 North, NC 28401 910-386-4300



This design is valid until 2/14/2027



Client: Date: 6/26/2024 Page 1 of 1 Project: Input by: Joe Ciferni isDesign Address: Job Name: Project #: Level: Level onCENTER 2.1E LVL 1.750" X 9.250" 3-Ply - PASSED SPF End Grain 0-4-8 2 SPF End Grain 0-4-8 7'9' Member Information Reactions UNPATTERNED Ib (Uplift) Type: Girder Wind Application: Floor Brg Direction Live Dead Snow Const Plies: 3 Design Method: ASD 4534 4588 0 0 Vertical 0 1 Moisture Condition: Dry **Building Code:** IRC 2018 0 0 2 Vertical 4534 4588 0 Deflection LL: 480 Load Sharing: Yes Deflection TL: 240 Deck: Not Checked Importance: Normal - II Temp <= 100°F Temperature: **Bearings** General Load Floor Live: 40 PSF Cap. React D/L lb Total Ld. Case Ld. Comb. Bearing Length Dir. 12 PSF Dead: 1-SPF 4.500" 51% 4588 / 4534 9122 L D+L Vert End Grain Analysis Results 2 - SPF 4.500' 51% 4588 / 4534 9122 L D+L Vert Analysis Actual Location Allowed Capacity Comb. Case End 14938 ft-lb Moment 3'10 1/2" 20780 ft-lb 72% D+L L Grain 14938 ft-lb Unbraced 3'10 1/2" 14949 ft-lb 100% D+L L 6425 lb Shear 6'7 1/4" 9227 lb 70% D+L L LL Defl inch 0.110 (L/777) 3'10 9/16" 0.178 (L/480) 62% L TL Defl inch 0.221 (L/386) 3'10 9/16" 0.356 (L/240) 62% D+L L **Design Notes** 1 Provide support to prevent lateral movement and rotation at the end bearings. 2 Girders are designed to be supported on the bottom edge only. 3 Multiple plies must be fastened together as per manufacturer's details. 4 Top loads must be supported equally by all plies. 5 Top must be laterally braced at a maximum of 6'10 3/16" o.c. 6 Bottom must be laterally braced at end bearings. 7 Lateral slenderness ratio based on single ply width. ID Load Type Trib Width Location Side Dead 0.9 Live 1 Snow 1.15 Wind 1.6 Const. 1.25 Comments Uniform 1170 PLF 1170 PLF 0 PLF OPLE Floor Truss Above 1 Top OPIF Self Weight 14 PLF

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design critical and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

chemicals

Handling & Installation

annuing & Installation

LVL beams must not be cut or drilled
Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals

Damaged Beams must not be used
Design assumes top edge is laterally restrained
Provide lateral support at bearing points to avoid lateral displacement and rotation

For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

BlueLinx 1950 Spectrum Circle, Suite 300 Marietta, GA 30067 877-914-7770 www.buildoncenter.com ICC-ES: ESR-2909, ESR-2913, ESR-1210

Professional Builders Supply 3941 US Hwy. 421 North, NC 28401 910-386-4300



This design is valid until 2/14/2027



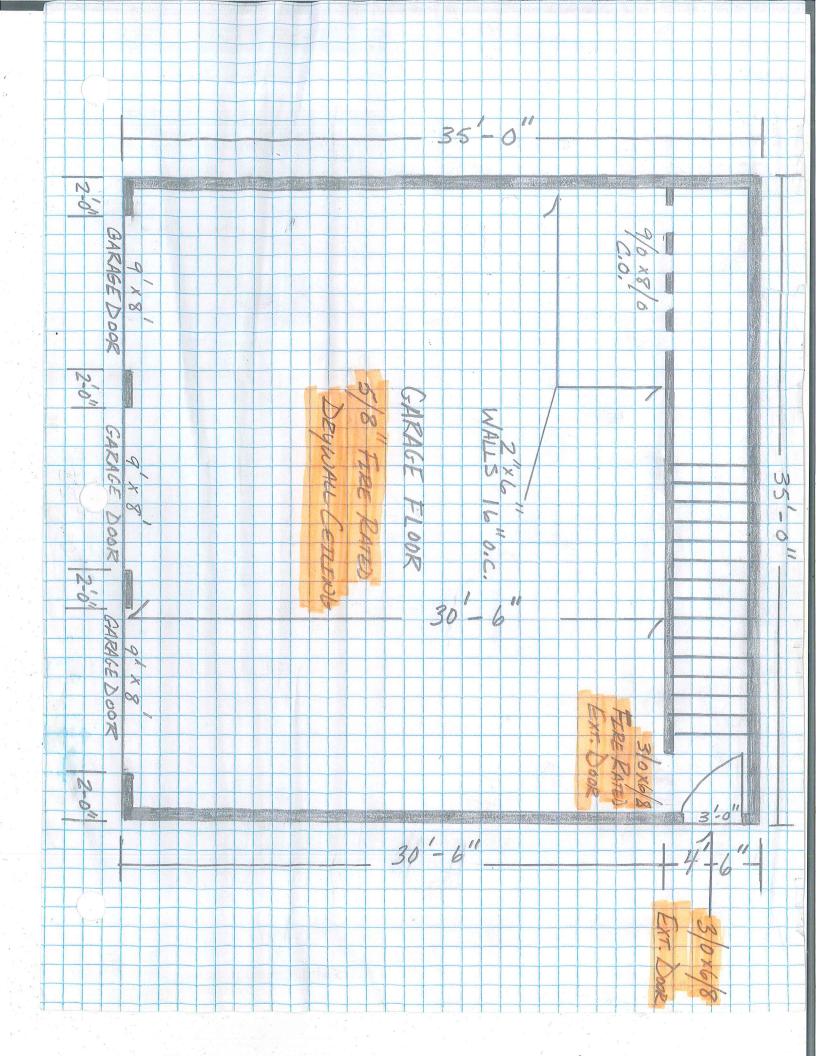
Date: 6/26/2024 Page 1 of 1 Client: Project: Input by: Joe Ciferni isDesign Address: Job Name: Project #: Level: Level onCENTER 2.1E LVL 1.750" X 11.875" 3-Ply - PASSED SPF End Grain 0-4-8 2 SPF End Grain 0-4-8 8'9 Member Information Reactions UNPATTERNED Ib (Uplift) Wind Type: Girde Application: Floor Brg Direction Live Dead Snow Const Plies: 3 Design Method: ASD 5119 5198 0 0 Vertical 0 1 Moisture Condition: Dry **Building Code:** IRC 2018 2 Vertical 5119 5198 0 0 0 Deflection LL: 480 Load Sharing: Yes Deflection TL: 240 Deck: Not Checked Importance: Normal - II Temp <= 100°F Temperature: **Bearings** General Load Floor Live: 40 PSF Cap. React D/L lb Total Ld. Case Ld. Comb. Bearing Length Dir. Dead: **12 PSF** 1-SPF 4.500" 58% 5198 / 5119 10317 L D+L Vert End Grain **Analysis Results** 2 - SPF 4.500" 58% 5198 / 5119 10317 L D+L Vert Analysis Actual Location Allowed Capacity Comb. Case End 19459 ft-lb Moment 4'4 1/2" 33194 ft-lb 59% D+L L Grain Unbraced 19459 ft-lb D+L 4'4 1/2" 19468 ft-lb 100% L 7099 lb Shear 1'4 3/8" 11845 lb 60% D+L L LL Defl inch 0.092 (L/1065) 4'4 9/16" 0.203 (L/480) 45% L L 4'4 9/16" 0.406 (L/240) 45% TL Defl inch 0.185 (L/528) D+L L **Design Notes** 1 Provide support to prevent lateral movement and rotation at the end bearings. 2 Girders are designed to be supported on the bottom edge only. 3 Multiple plies must be fastened together as per manufacturer's details. 4 Top loads must be supported equally by all plies. 5 Top must be laterally braced at a maximum of 6'9 1/2" o.c. 6 Bottom must be laterally braced at end bearings. 7 Lateral slenderness ratio based on single ply width. ID Load Type Location Trib Width Side Dead 0.9 Live 1 Snow 1.15 Wind 1.6 Const. 1.25 Comments Uniform 1170 PLF 1170 PLF 0 PLF 0 PLF 1 Top 0 PLF Floor Truss Above Self Weight 18 PLF Professional Builders Supply 3941 US Hwy. 421 North, NC Manufacturer Info chemicals 6. For flat roofs provide proper drainage to prevent Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design critical and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads. Handling & Installation Bluel inx LVI. beams must not be cut or drilled Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code 28401 1950 Spectrum Circle, Suite 300 Marietta, GA 30067 877-914-7770 910-386-4300 www.buildoncenter.com approvals

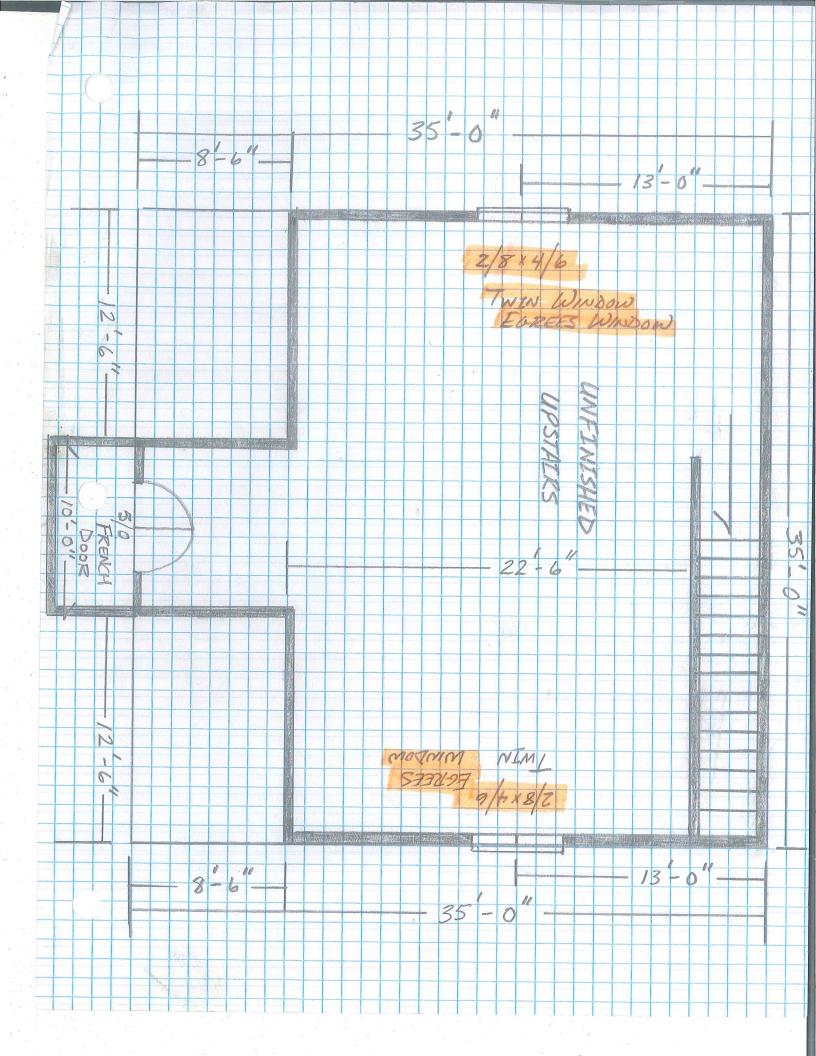
Damaged Beams must not be used

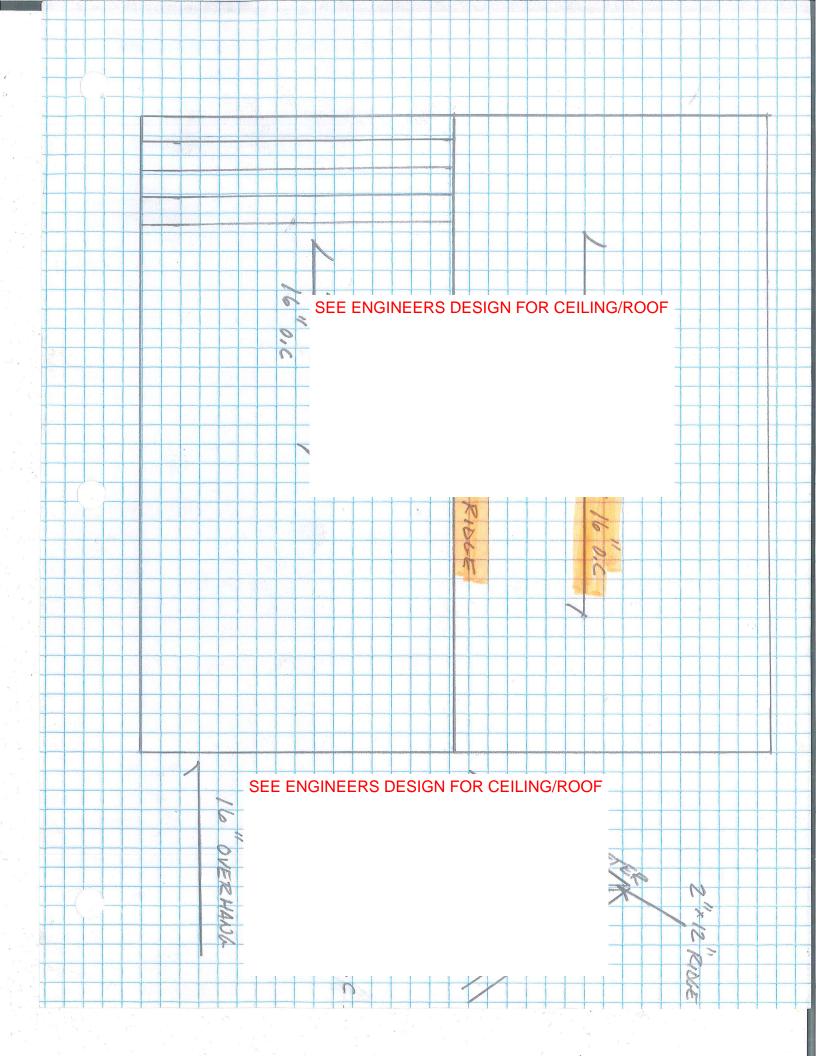
Design assumes top edge is laterally restrained

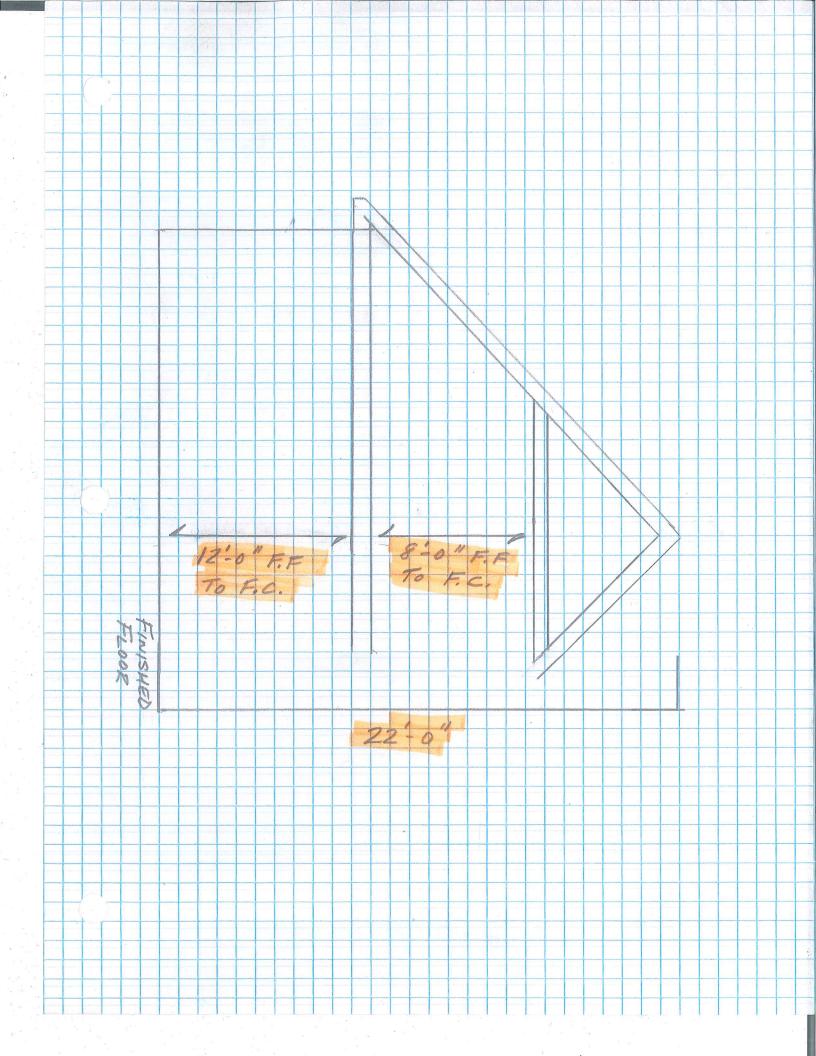
Provide lateral support at bearing points to avoid
lateral displacement and rotation Professional Lumber ICC-ES: ESR-2909, ESR-2913, Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive BUILDERS SUPPL ESR-1210

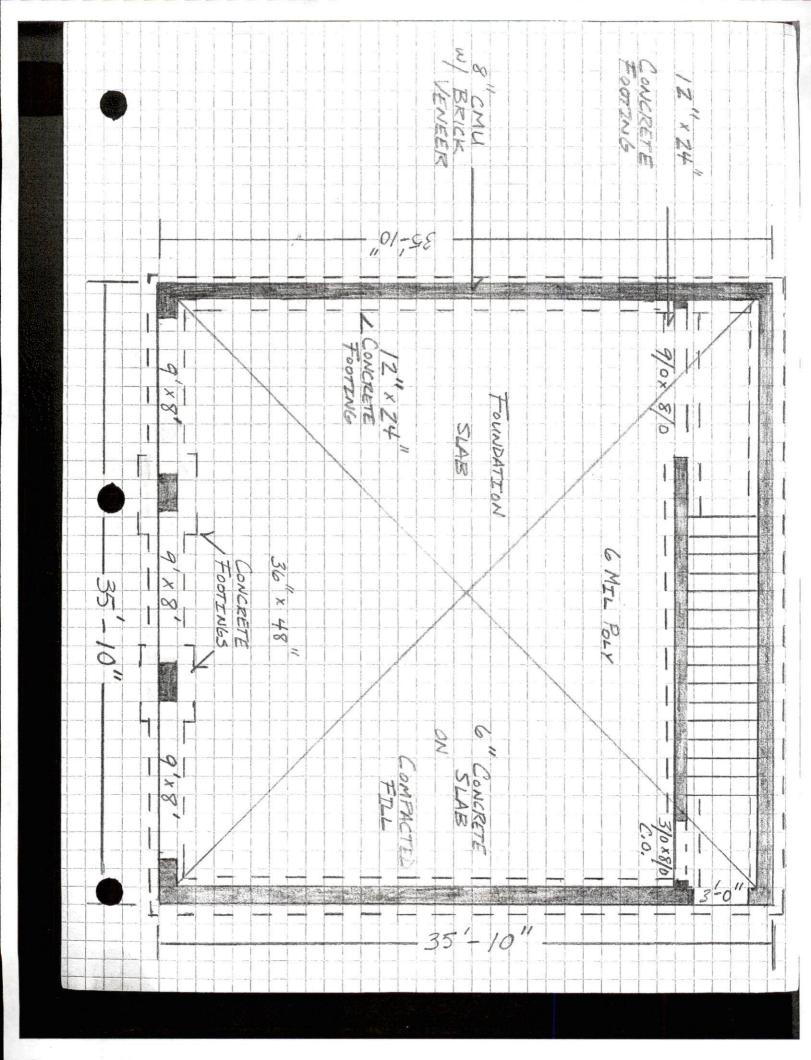
This design is valid until 2/14/2027

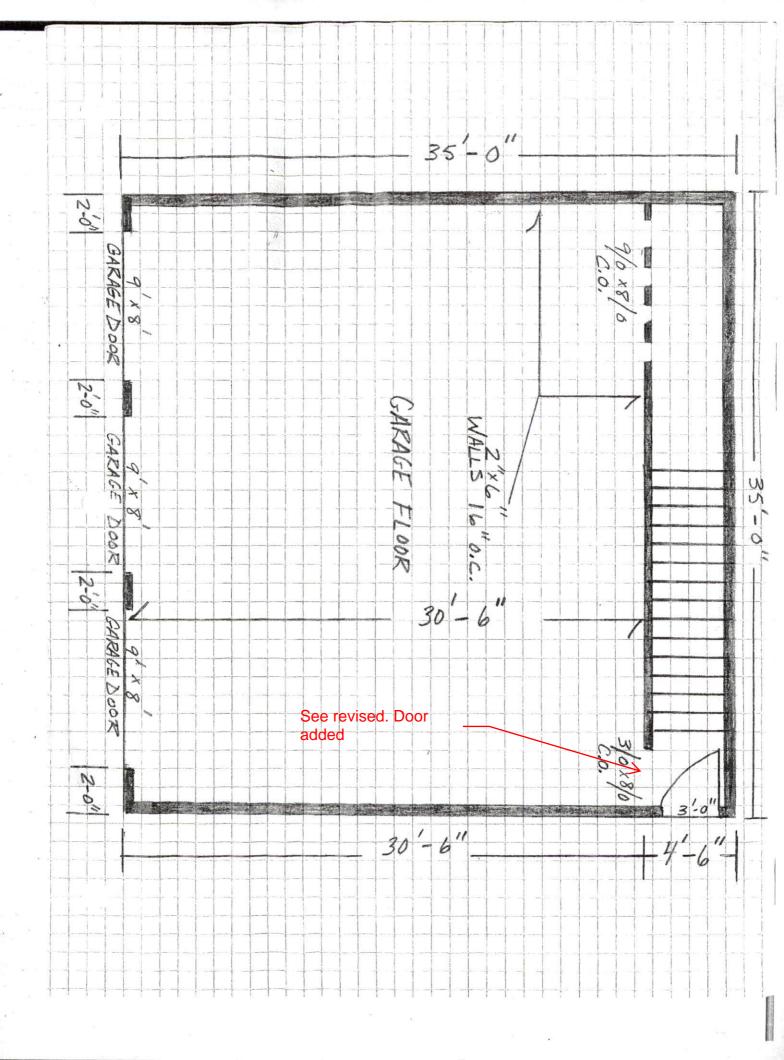


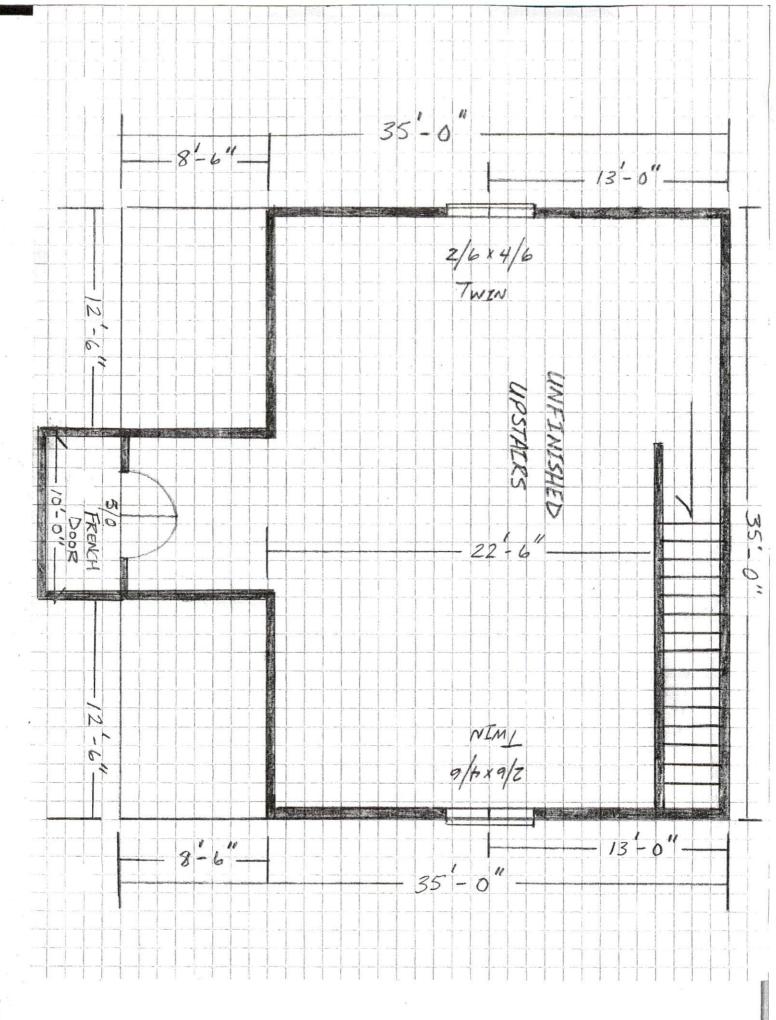












NO ROOF LOADS ON FLOOR TRUSSES

9' 0"

2' 0"

2' 0"

GENERAL NOTES
1. BBO BEAMS PROVIDED BY OTHER

Truss Placement Plan SCALE: NTS

BBO DROPPED

9' 0"

35' 0"

2' 0"

A- Indicates Left End of Truss (Reference Engineered Truss Drawing) Do NOT Erect Truss Backwards

2' 0"

9' 0"

949	HART FOR JAC	100	BUILDER	PBS/RAD INVESTMENTS	CITY / CO.	DUNN / Johnston	Thes is A TRUSS PLACEMENT DIAGRAM ONLY. These theory are designed as individual brinding compared by the acceptant diagram of the specific place of the bending designs of the specific place of the bending designs, as the specific place of the bending designs, as the specific place of the bending designs of the specific place of the design of the place o
1. 14	Fa AS	6. 25	JOB NAME	STRICKLAND GARAGE	ADDRESS	38 WILLOWCROFT COURT	In compart offsite that therefore any unit programment that along all the creal and Stone system, and for the removal state time. This discusses if the times a supposed surjective to the facility branchers, to answer wells, and substants to the company that of the branches are not required and substants are supposed to the substants. requiring the branches, consorted TEC is 181 are not CO. 182 are not all with the times delivery passion.
2 22	1 2		PLAN	35X35	MODEL	FLOOR	or orders ill siscindurary com: De solvey reactivate is an there are repost to 1999M are decouved to compaly with the reactivation Conference resoulcements. The contractor should refer to the attached label.
3400 Z 5100 3		SEAL DATE	Seal Date	DATE REV.	04/30/24	desired from the preventigithe Code propionroots) by determine the minimum town daths not med market of weed their regulated to support necessary than 2000 but not greater than 12000, A prejettered design productioned shall be realized to design the support vestion for our readers that are code those.	
6500 5 10707 6	12750 5 15100 6	13600 4 17000 5	QUOTE#	B0424-2524	DRAWN BY	Michael Turner	specified in the atticitied Indian. It rejectived disting particitions that be produced in design the support system for all processing the reased 1500th Michael Tupmers.
11900 7 13600 A			JOB#	J0424-2524	SALES REP.	Paul Hawkins	Michael Turner

ROOF & FLOOR TRUSSES & BEAMS

Reilly Road Industrial Park Fayetteville, N.C. 28309 Phone: (910) 864-8787 Fax: (910) 864-4444

Job	Truss	Truss Type	Qty	Ply	STRICKLAND GARAGE
B0424-2524	F200	FLOOR	15	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309

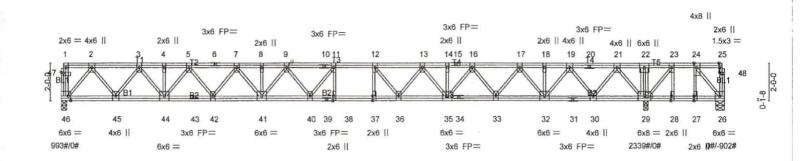
Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Tue Apr 30 16:23:37 2024 Page 1 $ID: in YZOo 9XTQdAUiAfNqTg_EzLZQc-yLnDZDXOZeMFgs2SImsxK8YK63gPlykU9HsvUqzLUcqDXOZeMFgs2SImsxK8YK63gPlykU9HsvUqzLUcqDXOZeMFgs2SImsxK8YK63gPlykU9HsvUqzLUcqDXOZeMFgs2SImsxK8YK63gPlykU9HsvUqzLUcqDXOZeMFgs2SImsxLUcqDXOZeMFgs2SImsxLUcqDXOZeMFgs2SImsxLUcqDXOZeMFgs2SImsxLucqDXOZeMFg$

0-1-8

H 1-3-0

1-11-8

1-0-8 0-1-8 Scale = 1:58.3



L				30-10-0)					1	4-2-0
					35-0-0					1	1
Plate Offsets (X,Y)	[24:0-3-0, Edge], [25:0-3	3-0, Edge].	[27:0-3-0,0-0-0]	[28:0-3-	0,Edge], [37:0-3-0,0	-0-01, [3	38:0-3-	0, Edge],	[46:0-1-8, Edge]	, [47:0-1-8,0-0-7], [48:0-1-8,0-0-8]
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2015/T		CSI. TC BC WB Matri	0.60 0.49 0.76	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.25 -0.34 0.05	(loc) 38 38 29	l/defl >999 >999 n/a	L/d 480 360 n/a	PLATES MT20 Weight: 313	GRIP 244/190 lb FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SP No.1(flat) BOT CHORD 2x4 SP No.1(flat)

WEBS 2x4 SP No.3(flat) BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except

BOT CHORD

Rigid ceiling directly applied or 6-0-0 oc bracing

REACTIONS.

(size) 46=0-3-8 (min. 0-1-8), 26=0-5-8 (min. 0-1-8), 29=0-3-0 (min. 0-1-8)

Max Uplift26=-902(LC 3)

Max Grav 46=993(LC 10), 29=2339(LC 1)

TOP CHORD

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

26-48=-252/0, 25-48=-252/0, 2-3=-1363/0, 3-4=-2405/0, 4-5=-2405/0, 5-6=-3150/0, 6-7=-3150/0, 7-8=-3640/0, 8-9=-3640/0, 9-10=-3835/0, 10-11=-3835/0, 11-12=-3796/0, 12-13=-3512/0, 13-14=-2955/0, 14-15=-2955/0, 15-16=-2955/0, 16-17=-2095/0,

17-18=-990/0, 18-19=-990/0, 19-20=0/442, 20-21=0/442, 21-22=0/2189, 22-23=0/2189,

23-24=0/1034

BOT CHORD

45-46=0/786, 44-45=0/1926, 43-44=0/2841, 42-43=0/2841, 41-42=0/3445, 40-41=0/3812, 39-40=0/3796, 38-39=0/3796, 37-38=0/3796, 36-37=0/3796, 35-36=0/3280, 34-35=0/2568, 33-34=0/2568, 32-33=0/1611, 31-32=-3/378, 30-31=-3/378, 29-30=-1195/0, 28-29=-1034/0,

27-28=-1034/0, 26-27=-1022/0

2-46=-1236/0, 2-45=0/993, 3-45=-970/0, 3-44=0/798, 5-44=-727/0, 5-42=0/531, 7-42=-508/0, 7-41=0/325, 21-29=-1573/0, 21-30=0/1296, 19-30=-1274/0, 19-32=0/1109,

17-32=-1037/0, 17-33=0/835, 16-33=-816/0, 16-35=0/646, 13-35=-544/0, 13-36=0/506, 12-36=-680/0, 9-41=-287/0, 9-40=-145/262, 11-40=-313/349, 11-38=-275/111,

12-37=-92/293, 24-26=0/1601, 23-29=-1843/0, 23-28=0/629, 24-27=-548/0

NOTES-

WEBS

1) Unbalanced floor live loads have been considered for this design.

2) All plates are 3x6 MT20 unless otherwise indicated.

3) Plates checked for a plus or minus 1 degree rotation about its center. 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 902 lb uplift at joint 26.

5) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

7) CAUTION, Do not erect truss backwards

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	STRICKLAND GARAGE
B0424-2524	F201	FLOOR	11	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309

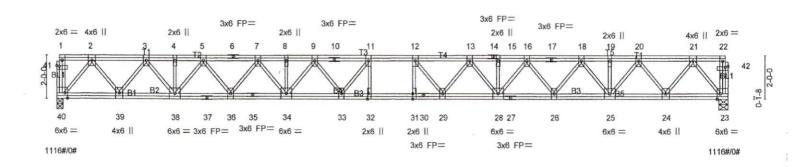
Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Tue Apr 30 16:23:38 2024 Page 1 ID:inYZOo9XTQdAUiAfNqTg_EzLZQc-QXLbnZY0KyU6I0dfsTNAtM5cqS0q1SOdNxbT0GzLUcp

0-1-8

H 1-3-0

1-11-0

0-1-8 Scale = 1:50.9



-			30-11-0 30-11-0	
Plate Offsets (X,Y)	[23:0-1-8,Edge], [31:0-3-0,0-0-0], [32:	0-3-0,Edge], [40:0-1-8,E	Edge], [41:0-1-8,0-0-7], [42:0-1-8,0-0-7]	
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- 1-4-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.15 BC 0.47 WB 0.54 Matrix-S	DEFL. in (loc) I/defl L/d Vert(LL) -0.31 31-32 >999 480 Vert(CT) -0.43 31-32 >860 360 Horz(CT) 0.07 23 n/a n/a	PLATES GRIP MT20 244/190 Weight: 274 lb FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SP No.1(flat) BOT CHORD 2x4 SP No.1(flat) 2x4 SP No.3(flat) **WEBS**

BRACING-

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 6-0-0 oc purlins, except

end verticals.

Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 23=0-5-0 (min. 0-1-8), 40=0-3-8 (min. 0-1-8) Max Grav 23=1116(LC 1), 40=1116(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-1550/0, 3-4=-2770/0, 4-5=-2770/0, 5-6=-3693/0, 6-7=-3693/0, 7-8=-4366/0, 8-9=-4366/0, 9-10=-4739/0, 10-11=-4739/0, 11-12=-4860/0, 12-13=-4739/0, 13-14=-4366/0,

14-15=-4366/0, 15-16=-4366/0, 16-17=-3693/0, 17-18=-3693/0, 18-19=-2770/0,

19-20=-2770/0, 20-21=-1550/0

BOT CHORD

39-40=0/886, 38-39=0/2200, 37-38=0/3298, 36-37=0/3298, 36-36=0/4076, 34-35=0/4076, 33-34=0/4613, 32-33=0/4860, 31-32=0/4860, 30-31=0/4860, 29-30=0/4860, 28-29=0/4613, 27-28=0/4076, 26-27=0/4076, 25-26=0/3298, 24-25=0/2200, 23-24=0/886 21-23=-1394/0, 21-24=0/1143, 20-24=-1119/0, 20-25=0/950, 18-25=-879/0, 18-26=0/680, 16-26=-659/0, 16-28=0/483, 2-40=-1394/0, 2-39=0/1143, 3-39=-1119/0, 3-38=0/950,

5-38-879/0, 5-36=0/680, 7-36=-659/0, 7-34=0/483, 9-34=-413/0, 9-33=-39/396, 11-33=-513/187, 13-28=-413/0, 13-29=-39/396, 12-29=-513/187

NOTES-

WEBS

1) Unbalanced floor live loads have been considered for this design.

2) All plates are 3x6 MT20 unless otherwise indicated.

3) Plates checked for a plus or minus 1 degree rotation about its center.

4) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	STRICKLAND GARAGE
B0424 2524	K200	Floor Supported Gable	2	1	Note Borness and a second
-0124-2024	ACTION 1				Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309

Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MTek Industries, Inc. Tue Apr 30 16:23:39 2024 Page 1 ID:inYZOo9XTQdAUIAfNqTg_EzLZQc-ukvz_vZe5FczwACrQBuPQZeoksTJm1XncbL0ZizLUco

0-1-8

Scale = 1:57.0

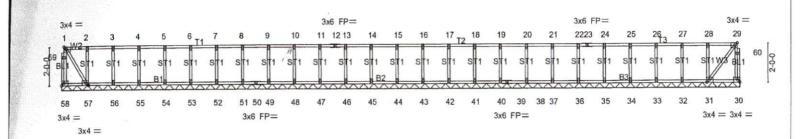


Plate Offsets (X,Y)-	[29:0-1-8,Edge], [31:0-1-8,Edge], [57:	0-1-8,Edge]	35-0-0 35-0-0				
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- 2-0-0 Plate Grlp DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.08 BC 0.01 WB 0.04 Matrix-S	DEFL. in Vert(LL) n/a Vert(CT) n/a Horz(CT) -0.00		1/defl L/d n/a 999 n/a 999 n/a n/a	PLATES MT20 Weight: 185 lb	GRIP 244/190 FT = 20%F, 11%E
LUMBER- TOP CHORD 2x4 SP BOT CHORD 2x4 SP WEBS 2x4 SP	No.1(flat)		BRACING- TOP CHORD BOT CHORD	end verti Rigid ce	icals.	or 6-0-0 oc bracing,	0-0 oc purlins, excep Except:

REACTIONS. All bearings 35-0-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 58, 30, 57, 56, 55, 54, 53, 52, 51, 49, 48, 47, 46, 45, 44, 43, 42, 41, 40, 38, 37, 36, 35, 34, 33, 32, 31

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

1) All plates are 1.5x3 MT20 unless otherwise indicated.

2) Plates checked for a plus or minus 1 degree rotation about its center.

3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).

5) Gable studs spaced at 1-4-0 oc.

6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard



т 919 773-1200 = F 919 773-9658 4 = Garner = North Carolina = 27529

250 Shipwash Drive, Suite 104 = Garner = North Carolina = 27529 www.tyndallengineering.com

July 2, 2024 Revised: 7/3/2024

Jeremy Strickland Po Box 429 Dunn, NC 28334

Email: jmstrickland83@yahoo.com

Reference: Engineering Services

38 Willowcroft Court Dunn, NC 28334

TE&D Project No.: 2401-020581-R

To Whom It May Concern;

As requested by the client, a representative of Tyndall Engineering & Design, PA (TE&D) provided analyses for the following items:

1. Assessment of proposed roof framing for proposed detached garage.

The following conclusions and recommendations were noted:

1. We understand the garage roof is to be framed with 2 x 8 at 16" o.c. rafters spanning front to back. Rafters will bear on the existing exterior walls and a 2 x 12 ridge above with 2 x 8 collar ties/ceiling joists at 32" o.c.

Based on our analyses, the proposed roof framing will be inadequate to support the anticipated loading conditions. We recommend the roof framing be modified per page 2 of this report.

Upon completion, the above-mentioned modifications will provide the required support for the anticipated loading conditions. We appreciate being able to assist you during this phase of the project. If you need further assistance or require additional information, please do not hesitate to contact us.

Sincerely,

Tyndall Engineering & Design

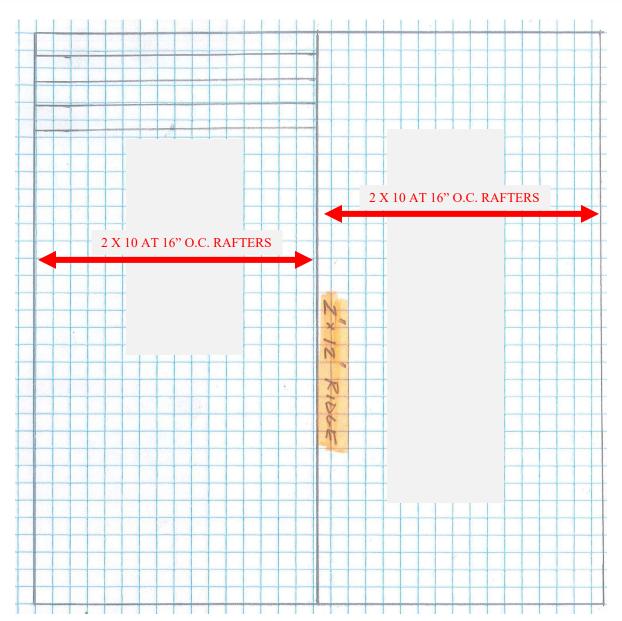
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PT III | 2401-020581-R

Prentice Tyndall Jr., P.E.



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$\frac{\text{PLAN COURTESY OF CLIENT}}{\text{NOT TO SCALE}}$





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