

Project: Address: Watermark Homes

Date:

Designer:

9/27/2018

Anthony Williams

Page 1 of 8

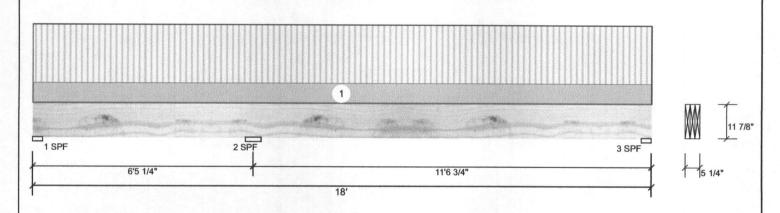
Job Name: Lot 38 South Creek Project #: J0918-4410

Kerto-S LVL

1.750" X 11.875"

3-Ply - PASSED

Level: Level



Member Inforn	ber Information				Reactions UNPATTERNED Ib (Uplift)					
Type:	Girder	Application:	Roof	Brg	Live	Dead Sn	ow	Wind	Const	
Plies:	3	Slope:	0/12	1	1162	409	0	0	0	
Moisture Condition:	Dry	Design Method:	ASD	2	8927	3140	0	0	0	
Deflection LL:	480	Building Code:	IBC 2012	3	3771	1326	0	0	0	
Deflection TL:	360	Load Sharing:	Yes				-			
Importance:	Normal	Deck:	Not Checked							
Temperature:	Temp <= 100°F									
				Bearing	S					
				Bearing	Length	Cap. React D/L	b Tota	l Ld. Case	Ld. Comb.	
				1 - SPF	3.500"	35% 376 / 235	5 273	1 L	D+L	

2 - SPF 5.500"

3 - SPF 3.500"

100%

66%

3191 / 9072

1308 / 3835

Analysis Res	sults						
Analysis	Actual	Location	Allowed	Capacity	Comb.	Case	
Neg Moment	-12572 ft-lb	6'5 1/4"	31060 ft-lb	0.405 (40%)	D+L	LL	
Unbraced	-11259 ft-lb	6'5 1/4"	20065 ft-lb	0.561 (56%)	D+L	_L	
Pos Moment	11556 ft-lb	13' 11/16"	31060 ft-lb	0.372 (37%)	D+L	L	
Unbraced	11556 ft-lb	13' 11/16"	14626 ft-lb	0.790 (79%)	D+L	_L	
Shear	5977 lb	7'5 1/8"	13300 lb	0.449 (45%)	D+L	LL	
LL Defl inch	0.148 (L/920)	12'5 1/2"	0.283 (L/480)	0.520 (52%)	L	_L	
TI D-01	0 400 // 1005)	4015 401408	0.070 (1.1000)	0 500 (500()	D.1		

TL Defl inch 0.196 (L/695) 12'5 13/16" 0.378 (L/360) 0.520 (52%) D+L **Design Notes**

1 Girders are designed to be supported on the bottom edge only.

- 2 Multiple plies must be fastened together as per manufacturer's details.
- 3 Top loads must be supported equally by all plies.
- 4 Tie-down connection required at bearing 1 for uplift 734 lb (Combination D+L, Load Case
- 5 Top braced at bearings.
- 6 Bottom braced at bearings.
- 7 Lateral slenderness ratio based on single ply width.

	and the state of t											
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	257 PLF	770 PLF	0 PLF	0 PLF	0 PLF	F04		
	Self Weight				14 PLF							

Notes

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 intended application, and to verify the dimensions and loads.

Lumber

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

Handling & 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 appropriates
- 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

Job# PER181912 P. E. Robbins, P.E. - #309-240-6424 1777 State Rt 167 Victoria IL 61485 This design is valid until 7/10/2021

301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us ICC-ES: ESR-3633

Comtech, Inc. 1001 S. Reilly Road, Suite #639 Fayetteville, NC Manufacturer Info Metsä Wood Fayette USA

28314 910-864-TRUS

(-734)

5143

12263 LL

D+L







Project: Address: Watermark Homes

9/27/2018

Designer: Anthony Williams

Page 2 of 8

Job Name: Lot 38 South Creek Project #:

Date:

J0918-4410

Kerto-S LVL

1.750" X 16.000"

2-Ply - PASSED

Level: Level

23%		***		1
SPF			2 SPF	1
SPF	20'4"		2 SPF	

Member Infor	mation			Reaction	s UNPAT	TERNE	D lb (Uplift))		
Type:	Girder	Application:	Roof	Brg	Live	Dead	d Snow	٧	Vind	Const
Plies:	2	Slope:	0/12	1	407	2312	2 0		0	0
Moisture Condition	: Dry	Design Method:	ASD	2	407	2312	2 0		0	0
Deflection LL:	480	Building Code:	IBC 2012							
Deflection TL:	360	Load Sharing:	No							
Importance:	Normal	Deck:	Not Checked							
Temperature:	Temp <= 100°F				3,632					
				Bearings						
				Bearing	Length	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
				1 - SPF	3.500"	52%	2312 / 407	2719	L	D+L
				2 - SPF	3.500"	52%	2312 / 407	2719	L	D+L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	13233 ft-lb	10'2"	34565 ft-lb	0.383 (38%)	D+L	L
Unbraced	13233 ft-lb	10'2"	13250 ft-lb	0.999 (100%)	D+L	L
Shear	2304 lb	1'6 5/8"	11947 lb	0.193 (19%)	D+L	L
LL Defl inch	0.063 (L/3784)	10'2 1/16"	0.497 (L/480)	0.130 (13%)	L	L
TL Defl inch	0.422 (L/566)	10'2 1/16"	0.663 (L/360)	0.640 (64%)	D+L	L

Design Notes

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- 3 Top loads must be supported equally by all plies.
- 4 Top must be laterally braced at a maximum of 8'11 1/4" o.c.
- 5 Bottom braced at bearings.
- 6 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
1	Uniform			Тор	175 PLF	0 PLF	0 PLF	0 PLF	0 PLF	WALL
2	Uniform			Тор	40 PLF	40 PLF	0 PLF	0 PLF	0 PLF	ROOF
	Self Weight				12 PLF					

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Lumber

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Handling & Installation

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 Refer to manufacturer's product infon regarding installation requirements, m fastening details, beam strength values, and approvale.
- approvals
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 Provide lateral support at bearing points to avoid
 lateral displacement and rotation

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Designer: Anthony Williams Job Name: Lot 38 South Creek

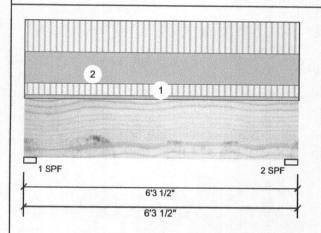
Project #: J0918-4410

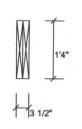
Kerto-S LVL

1.750" X 16.000"

2-Ply - PASSED

Level: Level





Page 3 of 8

Member	Informa	tion
Tuno		lad a a

Type:	Girder
Plies:	2
Moisture Condition:	Dry
Deflection LL:	480
Deflection TL:	360
Importance:	Normal
	_

Design Method: **Building Code:**

Temp <= 100°F Temperature:

Reactions UNPATTERNED Ib (Uplift) Application:

0/12	
ASD	
IBC 2012	
No	
Not Checked	

Brg Live Dead Snow Wind Const 1746 1471 1 0 0 0 2 1746 1471 0 0

Bearings Ве

Bearing	Length	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	3.500"	62%	1471 / 1746	3216	L	D+L
2-SPF	3.500"	62%	1471 / 1746	3216	L	D+L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case	
Moment	4380 ft-lb	3'1 3/4"	34565 ft-lb	0.127 (13%)	D+L	L	
Unbraced	4380 ft-lb	3'1 3/4"	19579 ft-lb	0.224 (22%)	D+L	L	
Shear	1630 lb	1'6 5/8"	11947 lb	0.136 (14%)	D+L	L	
LL Defl inch	0.011 (L/6369)	3'1 3/4"	0.146 (L/480)	0.080 (8%)	L	L	
TL Defl inch	0.020 (L/3457)	3'1 3/4"	0.195 (L/360)	0.100 (10%)	D+L	L	

Load Sharing:

Deck:

D

- 3 Top loads must be supported equally by all plies.
- 4 Top braced at bearings.
- 5 Bottom braced at bearings.
- 6 Lateral slenderness ratio based on single ply width.

Design Not 1 Girders are	es designed to be sup	ported on ti	ne bottom edge	only.		
TL Defl inch	0.020 (L/3457)	3'1 3/4"	0.195 (L/360)	0.100 (10%)	D+L	L
LL Defl inch	0.011 (L/6369)	3'1 3/4"	0.146 (L/480)	0.080 (8%)	L	L
Oriodi				0.100 (1170)		_



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	50 PLF	150 PLF	0 PLF	0 PLF	0 PLF	FLOOR
2	Uniform			Тор	405 PLF	405 PLF	0 PLF	0 PLF	0 PLF	J1
	Self Weight				12 PLF					

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Lumber

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

chemicals

Handling & Installation

- andling & Installation

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

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

For flat roofs provide proper drainage to prevent ponding

Job# PER181912

P. E. Robbins, P.E. - #309-240-6424 1777 State Rt 167 Victoria IL 61485 This design is valid until 7/10/2021

Manufacturer Info

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







Project: Address: Watermark Homes

Date:

9/27/2018

Designer: **Anthony Williams** Job Name: Lot 38 South Creek

Project #:

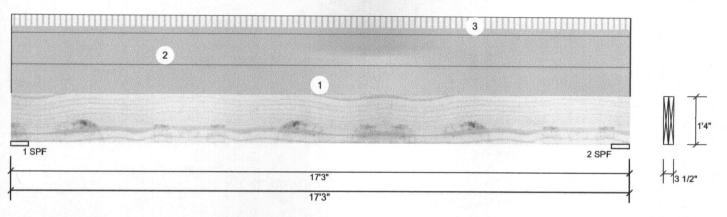
J0918-4410

Kerto-S LVL GDH

1.750" X 16.000"

2-Ply - PASSED

Level: Level



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M	em	ber	Inf	orn	nat	ion

Type:	Girder
Plies:	2
Moisture Condition:	Dry
Deflection LL:	480
Deflection TL:	600
Importance:	Normal
Temperature:	Temp <= 100°F

Design Method:

Application:

Building Code:

Deck:

0/12 ASD **IBC 2012**

Load Sharing: No

Not Checked

Reactions UNPATTERNED Ib (Uplift)

Brg	Live	Dead	Snow	Wind	Const	
1	518	3083	0	0	0	
2	518	3083	0	0	0	

Bearings

Bearing	Length	Сар.	React D/L lb	Total	Ld. Case	Ld. Comb.	
1 - SPF	6.000"	40%	3083 / 518	3600	L	D+L	
2 - SPF	6.000"	40%	3083 / 518	3600	L	D+L	

Analysis Results

	Analysis	Actual	Location	Allowed	Capacity	Comb.	Case	
	Moment	14027 ft-lb	8'7 1/2"	34565 ft-lb	0.406 (41%)	D+L	L	
	Unbraced	14027 ft-lb	8'7 1/2"	14045 ft-lb	0.999 (100%)	D+L	L	
	Shear	2866 lb	1'9 1/8"	11947 lb	0.240 (24%)	D+L	L	
	LL Defl inch	0.045 (L/4374)	8'7 9/16"	0.410 (L/480)	0.110 (11%)	L	L	
	TL Defl inch	0.313 (L/629)	8'7 9/16"	0.328 (L/600)	0.950 (95%)	D+L	L	
۰			_					_

Design Notes

- 1 Girders are designed to be supported on the bottom edge only.
- 2 Multiple plies must be fastened together as per manufacturer's details.
- 3 Top loads must be supported equally by all plies.
- 4 Top must be laterally braced at a maximum of 8'4 7/8" o.c.
- 5 Bottom braced at bearings.
- 6 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
1	Uniform			Тор	150 PLF	0 PLF	0 PLF	0 PLF	0 PLF	WALL
2	Uniform			Тор	160 PLF	0 PLF	0 PLF	0 PLF	0 PLF	BRICK
3	Uniform			Тор	35 PLF	60 PLF	0 PLF	0 PLF	0 PLF	Roof/Floor
	Self Weight				12 PLF					



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Lumber

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

Handling & Installation

- andling & Installation
 LVL beams must not be cut or drilled
 Refer to manufacturer's product information
 regarding installation requirements, multi-ply
 fastoning 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

Job# PER181912

For flat roofs provide proper drainage to prevent ponding

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Manufacturer Info

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Project: Address: Watermark Homes

Date:

9/27/2018

Designer: Anthony Williams

Job Name: Lot 38 South Creek

Project #: J0918-4410

Kerto-S LVL

1.750" X 9.250"

2-Ply - PASSED

Level: Level

3 ---2 1 1 SPF 2 SPF 10'3" 10'3"

Page 5 of 8

Member Information

Girder Type: Plies: 2 Moisture Condition: Dry Deflection LL: 480 Deflection TL: 600 Importance: Normal

Temp <= 100°F

Reactions UNPATTERNED Ib (Uplift) Application: Roof

Brg Live Dead Snow Wind Const 103 1728 1 0 0 0 2 103 1728 0 0 0

Bearings

Bearing Length Cap. React D/L lb Total Ld. Case Ld. Comb. 1 - SPF 6.000" 21% 1728 / 103 1831 L D+L 2-SPF 6.000" 21% 1728 / 103 1831 L D+L

Analysis Results

Temperature:

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	3705 ft-lb	5'1 1/2"	11288 ft-lb	0.328 (33%)	D	Uniform
Unbraced	3924 ft-lb	5'1 1/2"	7663 ft-lb	0.512 (51%)	D+L	L
Shear	1321 lb	9' 1/2"	6216 lb	0.212 (21%)	D	Uniform
LL Defl inch	0.008 (L/13536)	5'1 1/2"	0.234 (L/480)	0.040 (4%)	L	L
TL Defl inch	0.148 (L/758)	5'1 1/2"	0.188 (L/600)	0.790 (79%)	D+L	L

Slope:

Deck:

Design Method:

Building Code:

Load Sharing:

0/12

ASD

No

IBC 2012

Not Checked

Design Notes

- 1 Girders are designed to be supported on the bottom edge only.
- 2 Multiple plies must be fastened together as per manufacturer's details.
- 3 Top loads must be supported equally by all plies.
- 4 Top braced at bearings.

The second secon	braced at bearings. slenderness ratio based on								
ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Co
1	Uniform			Тор	150 PLF	0 PLF	0 PLF	0 PLF	



onst. 1.25 Comments 0 PLF WALL 2 Uniform Тор 160 PLF 0 PLF 0 PLF 0 PLF 0 PLF BRICK 3 Uniform 20 PLF 20 PLF 0 PLF 0 PLF Top 0 PLF Roof Self Weight 7 PLF

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Lumber

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

Handling & Installation

- JANUTING & INSTANTATION

 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

Job# PER181912

P F Robbins PF - #309-240-6424 1777 State Rt 167 Victoria IL 61485 This design is valid until 7/10/2021

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Client:

Watermark Homes

Project: Address:

Date:

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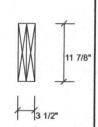
Designer: **Anthony Williams** Job Name: Lot 38 South Creek

Project #: J0918-4410

Sliding Door Header Kerto-S LVL 1.750" X 11.875"

2-Ply - PASSED Level: Level

3 1 SPF End Grain 2 SPF End Grain 5'7' 5'7"



Member Information

Type: Girder Plies: 2 Moisture Condition: Dry Deflection LL: 360 Deflection TL: 240 Importance: Normal Temp <= 100°F Temperature:

Application: Design Method: **Building Code:**

Deck:

Floor ASD **IBC 2012**

No

Load Sharing: Not Checked

Keactions	UNPAI	IEKNED	lb	(Uplift)	
Brg	Live	Dead		Snow	

Brg	Live	Dead	Snow	Wind	Const	
1	684	2489	0	0	0	
2	709	960	0	0	0	

Analysis Results

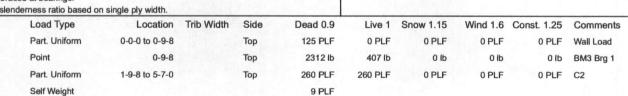
Analysis	Actual	Location	Allowed	Capacity	Comb.	Case	-
Moment	2327 ft-lb	2'5 3/16"	19911 ft-lb	0.117 (12%)	D+L	L	
Unbraced	2327 ft-lb	2'5 3/16"	15061 ft-lb	0.155 (15%)	D+L	L	
Shear	2004 lb	1'2 1/8"	8867 lb	0.226 (23%)	D+L	L	
LL Defl inch	0.007 (L/9597)	2'9 7/8"	0.174 (L/360)	0.040 (4%)	L	L	
TL Defl inch	0.018 (L/3391)	2'7 1/2"	0.260 (L/240)	0.070 (7%)	D+L	L	

TL Defl inch	0.018 (L/3391)	2'7 1/2"	0.260 (L/240)	0.070 (7%)	D+L	L
LL Defl inch	0.007 (L/9597)	2'9 7/8"	0.174 (L/360)	0.040 (4%)	L	L
Shear	2004 lb	1'2 1/8"	8867 lb	0.226 (23%)	D+L	L
Unbraced	2327 ft-lb	2'5 3/16"	15061 ft-lb	0.155 (15%)	D+L	L
Moment	2327 ft-lb	2'5 3/16"	19911 ft-lb	0.117 (12%)	D+L	L
, mary oro	, totadi	Locution	riiowod	Capacity	COIIID.	Case

Design Notes

- 1 Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not
- 2 Refer to last page of calculations for fasteners required for specified loads.
- 3 Girders are designed to be supported on the bottom edge only.
- 4 Top loads must be supported equally by all plies.
- 5 Top braced at bearings.
- 6 Bottom braced at bearings.
- 7 Lateral slenderness ratio based on single ply width.

Bearing:	S .						
Bearing	Length	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.	_
1 - SPF End Grain	3.000"	35%	2489 / 684	3173	L	D+L	
2 - SPF End Grain	3.000"	18%	960 / 709	1669	WATH C	ARO	
				100	CONTRACTOR AND ADDRESS OF	THE RESERVE AND PARTY AND PARTY.	-



ID

2

3

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Lumber

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

chemicals

Handling & 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
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 Provide lateral support at bearing points to avoid
 lateral displacement and rotation

Job# PER181912

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isDesign™

Client:

Address:

Watermark Homes

Project:

9/27/2018

Page 7 of 8

Designer: **Anthony Williams** Job Name: Lot 38 South Creek

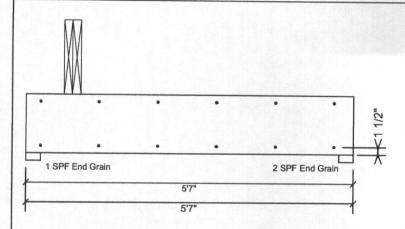
Project #: J0918-4410

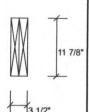
Sliding Door Header Kerto-S LVL

1.750" X 11.875"

2-Ply - PASSED Level: Level

Date:





Multi-Ply Analysis

Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6"

rows or rod box halls (.128x3) at
0.0 %
0.0 PLF
163.7 PLF
81.9 lb.
IV
1 1/2"
3"
1.00



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Lumber

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Handling & Installation

- anothing a installation.

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

Job# PER181912

P. E. Robbins, P.E. - #309-240-6424 1777 State Rt 167 Victoria IL 61485 This design is valid until 7/10/2021

Manufacturer Info

Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us ICC-ES: ESR-3633

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







RE: J0918-4409

Lot 38 South Creek / Harnett County

Trenco

818 Soundside Rd Edenton, NC 27932

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

Design Code: IRC2009/TPI2007

Wind Code: ASCE 7-05 Wind Speed: 100 mph

Roof Load: 40.0 psf

Design Program: MiTek 20/20 8.1

Design Method: MWFRS(low-rise)/C-C hybrid Wind ASCE 7-05

Floor Load: N/A psf

This package includes 32 individual, dated Truss Design Drawings and 0 Additional Drawings.

N 1234567891112345678901234567890	Seal# E11391720 E11391721 E11391722 E11391723 E11391724 E11391725 E11391726 E11391727 E11391729 E11391730 E11391730 E11391733 E11391733 E11391734 E11391735 E11391736 E11391736 E11391737 E11391738 E11391740 E11391740 E11391740 E11391740 E11391740 E11391740 E11391740 E11391740 E11391744 E11391745 E11391746 E11391747	Truss Name a1 a1-ge a2 b1 b1-ge b2-ge c1-ge c2 d1 d1-ge d2 d3-ge e1-ge e2-g1 g1-ge h1-ge h2 j1 j2 j3 k1-ge ve-1 vh-1 vh-2 vh-3 yh-4	Date 1/25/18
29 30 31 32	E11391748 E11391749 E11391750 E11391751	vh-3 vh-4 vh-5 vh-6	1/25/18 1/25/18 1/25/18 1/25/18 1/25/18

The truss drawing(s) referenced above have been prepared by Truss Engineering Co. under my direct supervision

Truss Design Engineer's Name: Gilbert, Eric
My license renewal date for the state of North Carolina is December 31, 2018
North Carolina COA:C-0844
IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to TRENCO. Any project specific information included is for TRENCO customers file reference purpose only, and was not taken into account in the preparation of these designs. TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and property income. into the overall building design per ANSI/TPI 1, Chapter 2.



January 25,2018

Gilbert, Eric

Job Truss Truss Type Qty Ply Lot 38 South Creek / Harnett County F11391720 J0918-4409 A1 Roof Special 1

Comtech, Inc., Fayetteville, NC 28309

| Job Reference (optional) 8.130 s Sep 15 2017 MiTek Industries, Inc. Wed Jan 24 14:14:26 2018 Page 1 ID:gr_TFs2_YWUFJe0lxxQCKrzcjPd-717Hvt867BjTQrS6xMaAEt?IDpCloMFl9tUpKuzs71R 16-11-15 24-0-0

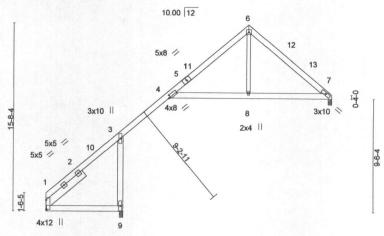
Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

6-5-8 12-0-3 6-5-8 5-6-11 4-11-13 7-0-1

5x5 =

Scale = 1:94.1



3x10 || 16-11-15 24-0-0

Plate Offsets (X,Y)	[1:Edge,0-0-0], [4	:0-1-13,0-2-8]
---------------------	--------------------	----------------

LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.58	Vert(LL)	-0.25	4-8	>845	360	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.50	Vert(TL)	-0.59	4-8	>360	240	141120	244/130	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.15	Horz(TL)	0.46	7	n/a	n/a			
BCDL	10.0	Code IRC2009/TI	PI2007	Matri	k-S	Wind(LL)	0.24	4-8	>864	240	Weight: 155 lb	FT = 20%	

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x6 SP No.1 *Except*

1-5: 2x6 SP 2400F 2.0E

BOT CHORD 2x6 SP No.1 **WEBS** 2x4 SP No.3

SLIDER Left 2x8 SP No.1 4-2-8

REACTIONS. (lb/size) 7=622/0-3-8, 1=41/Mechanical, 9=1164/0-3-8

Max Horz 1=409(LC 6)

Max Uplift 7=-22(LC 7), 1=-163(LC 5), 9=-451(LC 7) Max Grav 7=622(LC 1), 1=372(LC 6), 9=1164(LC 1)

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

TOP CHORD 1-3=-518/327, 3-4=-447/83, 4-6=-694/166, 6-7=-776/188 **BOT CHORD** 3-9=-1128/568, 4-8=-10/512, 7-8=-10/512

WEBS 6-8=0/398

NOTES-

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

- 2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) 0-0-0 to 4-4-13, Interior(1) 4-4-13 to 16-11-15, Exterior(2) 16-11-15 to 21-4-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7 except (jt=lb) 1=163, 9=451.



🛕 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road

Job Truss Truss Type Qty Lot 38 South Creek / Harnett County E11391721 J0918-4409 A1-GE GABLE 1 Job Reference (optional) 8.130 s Sep 15 2017 MiTek Industries, Inc. Wed Jan 24 14:14:26 2018 Page 1 Comtech, Inc., Fayetteville, NC 28309 ID:gr_TFs2_YWUFJe0lxxQCKrzcjPd-717Hvt867BjTQrS6xMaAEt?tlpJgoMPl9tUpKuzs71R 6-5-8 16-11-15 24-0-0 6-5-8 10-6-7 7-0-1 5x5 = Scale = 1:98.5 10.00 12 10 4x6 / 0-4-0 3x4 = 16 15 -6-5 20 19 3x10 || 2x6 24-0-0 Plate Offsets (X,Y)--[1:Edge,0-0-0], [2:0-2-12,0-2-4] LOADING (psf) 2-0-0 SPACING-CSI. DEFL in (loc) I/defl L/d **PLATES** GRIP Plate Grip DOL TCLL 20.0 1.15 TC 0.07 Vert(LL) n/a 999 244/190 n/a MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.03 Vert(TL) n/a n/a 999 BCLL 0.0 Rep Stress Incr 0.14 -0.01 Horz(TL) 13 n/a n/a

BCDL 10.0 Code IRC2009/TPI2007 Matrix-S

BRACING-

TOP CHORD

BOT CHORD

FT = 20% Weight: 176 lb

Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

LUMBER-

TOP CHORD 2x6 SP No.1 **BOT CHORD** 2x6 SP No 1 2x4 SP No.3 **OTHERS** SLIDER

Left 2x8 SP No.1 1-4-15

REACTIONS. All bearings 24-0-0.

(lb) - Max Horz 1=519(LC 7)

Max Uplift All uplift 100 lb or less at joint(s) 20, 15 except 1=-399(LC 5), 19=-207(LC 7), 6=-178(LC 7),

17=-104(LC 7), 18=-103(LC 7), 21=-140(LC 7), 22=-536(LC 7), 14=-160(LC 8)

Max Grav All reactions 250 lb or less at joint(s) 13, 19, 16, 17, 18, 20, 21, 15, 14 except 1=845(LC 7), 6=281(LC 1), 22=257(LC 5)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-921/446, 2-3=-555/307, 3-4=-465/286, 4-5=-428/286, 5-6=-338/279

2-22=-201/474 **WEBS**

NOTES-

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

- 2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 20, 15 except (jt=lb) 1=399, 19=207, 6=178, 17=104, 18=103, 21=140, 22=536, 14=160. 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 13, 6, 16, 17, 18, 15, 14.

MORTH

🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2016 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSITPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job Truss Truss Type Qty Ply Lot 38 South Creek / Harnett County E11391722 J0918-4409 A2 ROOF SPECIAL 2 | \(\begin{align*} \leq \leq \leq \leq \leq \text{Job Reference (optional)} \)
8.130 s Sep 15 2017 MiTek Industries, Inc. Wed Jan 24 14:14:27 2018 Page 1 Comtech, Inc., Fayetteville, NC 28309



5x5 =

10.00 12 4x8 // 3x10 | 3x10 2x4 || 5x5 / 9-5 4x12 || 9

LOADING (psf)	SPACING.	4-0-0		261		DEEL	in (loo) I/doff		DIATEO
Plate Offsets (X,Y)-	[1:Edge,0-0-0], [4:0-1-	13,0-2-8]	020	000	0-0-11	4-11-13	7-0-1		
			6-2-0	0-3-8	5-6-11	4-11-13	7-0-1	-	
			6-2-0	6-5-8	12-0-3	16-11-15	24-0-0		

LOADIN	G (psf)	SPACING-	4-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.67	Vert(LL)	-0.25	4-8	>845	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.55	Vert(TL)	-0.59	4-8	>360	240		_,
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.15	Horz(TL)	0.46	7	n/a	n/a	1000	
BCDL	10.0	Code IRC2009/TI	PI2007	Matri	x-S	Wind(LL)	0.24	4-8	>864	240	Weight: 309 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

2-0-0 oc purlins (6-0-0 max.)

(Switched from sheeted: Spacing > 2-8-0).

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

LUMBER-

TOP CHORD 2x6 SP No.1 *Except* 1-5: 2x6 SP 2400F 2.0E

BOT CHORD 2x6 SP No.1 WEBS 2x4 SP No.3

SLIDER Left 2x8 SP No.1 4-2-8

(lb/size) 7=1244/0-3-8, 1=81/Mechanical, 9=2328/0-3-8 REACTIONS.

Max Horz 1=819(LC 6)

Max Uplift 7=-45(LC 7), 1=-326(LC 5), 9=-903(LC 7) Max Grav 7=1244(LC 1), 1=744(LC 6), 9=2328(LC 1)

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

TOP CHORD 1-3=-1035/655, 3-4=-894/167, 4-6=-1388/332, 6-7=-1552/376

BOT CHORD 3-9=-2255/1136, 4-8=-20/1023, 7-8=-20/1023

WEBS

NOTES-

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc. Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc. Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) 0-0-0 to 4-4-13, Interior(1) 4-4-13 to 16-11-15, Exterior(2) 16-11-15 to 21-4-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) *This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7 except (jt=lb) 1=326, 9=903
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

ORTH CARO nuary 25,2018

Scale = 1:94.1

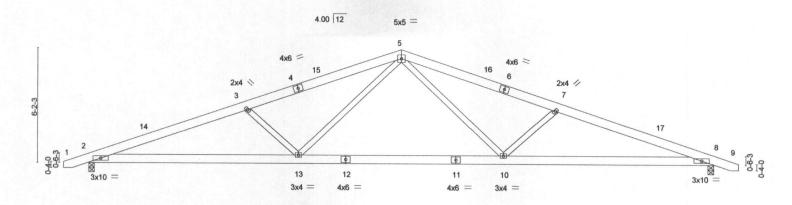
🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters whown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer for a prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent buckling of individual truss web and/or chord manage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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Job	Truss	Truss Type	Qty	Ply	Lot 38 South Creek / Harnett County	
J0918-4409	B1	COMMON	4			E11391723
Comtech, Inc.,	Fayetteville, NC 28309				Job Reference (optional)	
Connecti, inc.,	rayetteville, NC 28309		ID TE-0 \	3.130 s Sep	o 15 2017 MiTek Industries, Inc. Wed Jan 24 14:1-	4:29 2018 Page 1
₁ -1-4-8	8-7-8	17-0-0	ID:gr_1Fs2_1	25-4-8	cxQCKrzcjPd-XcoPXvA_P661HJBhcU8tsWdLi1DF 34-0-0	
1-4-8	8-7-8	8-4-8		8-4-8	8-7-8	35-4-8 1-4-8

Scale = 1:60.8



H	11-5-0 11-5-0	The second secon			22-7-0		1		34-0-0	
	11-5-0		7		11-1-15				11-5-0	
TCLL 20.0 TCDL 10.0 BCLL 0.0	Plate Grip DO Lumber DOL	1.15	CSI. TC BC WB	0.31 0.55 0.38	DEFL. Vert(LL) Vert(TL) Horz(TL)	in (loc) -0.15 10-13 -0.41 10-13 0.10 8	I/defl >999 >993 n/a	L/d 360 240 n/a	PLATES MT20	GRIP 244/190
BCDL 10.0	Code IRC200	9/TPI2007	Matrix		Wind(LL)	0.10 10-13	>999	240	Weight: 204 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1 BOT CHORD 2x6 SP No.1 WEBS 2x4 SP No.3 **BRACING-**

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 3-11-15 oc purlins.

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

REACTIONS. (lb/size) 2=1426/0-3-8, 8=1426/0-3-8

Max Horz 2=80(LC 7)

Max Uplift 2=-150(LC 5), 8=-150(LC 6)

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

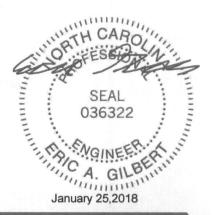
TOP CHORD 2-3=-3258/675, 3-5=-2849/571, 5-7=-2849/571, 7-8=-3258/675

BOT CHORD 2-13=-554/3031, 10-13=-289/1998, 8-10=-565/3031

WEBS 5-10=-89/911, 7-10=-592/295, 5-13=-89/911, 3-13=-592/295

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

- 2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) -1-1-13 to 3-3-0, Interior(1) 3-3-0 to 17-0-0, Exterior(2) 17-0-0 to 21-4-13 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=150, 8=150.



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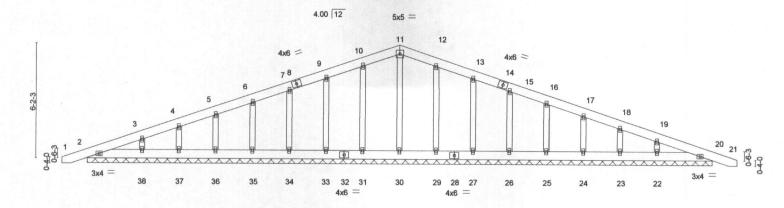


Edenton, NC 27932

Job Truss Truss Type Qty Ply Lot 38 South Creek / Harnett County E11391724 J0918-4409 B1-GE COMMON SUPPORTED GAB 1 | Job Reference (optional) 8.130 s Sep 15 2017 MiTek Industries, Inc. Wed Jan 24 14:14:30 2018 Page 1 Comtech, Inc. Fayetteville, NC 28309

ID:gr_TFs2_YWUFJe0lxxQCKrzcjPd-?pMnkEBcAPEuuTltACf6PjAauQhnkCdu3VS0Tfzs71N 1-4-8 17-0-0 34-0-0 17-0-0 17-0-0 1-4-8

Scale = 1:60.8



	,			1		34-0-0					T	1
OADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.03	Vert(LL)	-0.00	20	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(TL)	0.00	20	n/r	120		2111100
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(TL)	0.00	20	n/a	n/a		
BCDL	10.0	Code IRC2009/TI	PI2007	Matri	x-S						Weight: 233 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1 **BOT CHORD** 2x6 SP No.1 OTHERS 2x4 SP No.3 **BRACING-**

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 6-0-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 34-0-0.

(lb) - Max Horz 2=97(LC 5)

Max Uplift All uplift 100 lb or less at joint(s) 2, 31, 33, 34, 35, 36, 37, 38, 29, 27, 26, 25, 24, 23, 22, 20 Max Grav All reactions 250 lb or less at joint(s) 2, 30, 31, 33, 34, 35, 36, 37, 38, 29, 27, 26, 25, 24, 23, 22, 20

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

NOTES-

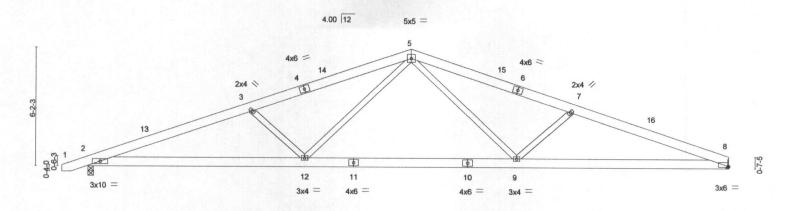
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 31, 33, 34, 35, 36, 37, 38, 29, 27, 26, 25, 24, 23, 22, 20.



🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only with MTI-eNe connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer must verify the applicability of design parameters and properly design and the overall design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see
ANSITIPH quality Criteria, DSB-89 and BCSI Building Component Safety information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

Job	Truss	Truss Type	Qty	Ply	Lot 38 South Creek / Harnett County 1 E1139172		
J0918-4409	B2	COMMON	5	1			
Comtech, Inc.,	Fayetteville, NC 28309		8	.130 s Sep	Job Reference (optional) 15 2017 MiTek Industries, Inc. Wed	lan 24 14:14:31 2018 Page 1	
1-4-8	8-7-8	17-0-0			xQCKrzcjPd-T?w9yaBExjMlWdK4jvA		
1-4-8	8-7-8	8-4-8		8-4-8		8-4-0	

Scale = 1:58.8



		11-5-0				22-7-0			1		33-8-8	
		11-5-0				11-1-15					11-1-8	
Plate Offse	ets (X,Y)	[8:0-0-7,0-0-9]										
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.33	Vert(LL)	-0.14	. ,	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.55	Vert(TL)	-0.40	9-12	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.38	Horz(TL)	0.10	8	n/a	n/a		
BCDL	10.0	Code IRC2009/TF	12007	Matrix	x-S	Wind(LL)	0.10	9-12	>999	240	Weight: 200 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x6 SP No.1 **BOT CHORD** 2x6 SP No.1 2x4 SP No.3

REACTIONS. (lb/size) 2=1418/0-3-8, 8=1338/Mechanical

Max Horz 2=85(LC 7) Max Uplift 2=-150(LC 5), 8=-97(LC 6)

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

TOP CHORD 2-3=-3235/683, 3-5=-2825/579, 5-7=-2800/594, 7-8=-3193/693

BOT CHORD 2-12=-582/3009, 9-12=-306/1975, 8-9=-575/2963 **WEBS** 5-9=-87/883, 7-9=-565/292, 5-12=-89/911, 3-12=-592/296

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) -1-1-13 to 3-3-0, Interior(1) 3-3-0 to 17-0-0, Exterior(2) 17-0-0 to 21-4-13 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8 except (jt=lb) 2=150.



🛕 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters and non-middividual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer must verify the applicability of design parameters and properly and permanent bracing is always required for stability and to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Edenton, NC 27932

Structural wood sheathing directly applied or 4-0-1 oc purlins.

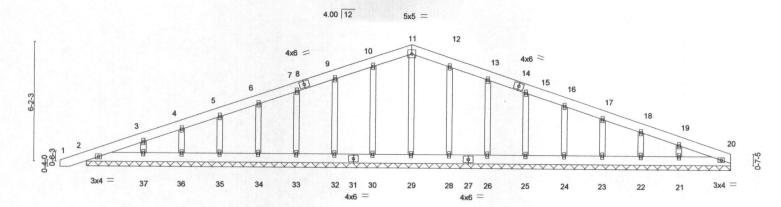
Rigid ceiling directly applied or 10-0-0 oc bracing.

Job Truss Truss Type Qty Lot 38 South Creek / Harnett County E11391726 J0918-4409 B2-GE COMMON SUPPORTED GAB 1 | Job Reference (optional) 8.130 s Sep 15 2017 MiTek Industries, Inc. Wed Jan 24 14:14:32 2018 Page 1 Comtech, Inc., Fayetteville, NC 28309 -1-4-8

ID:gr_TFs2_YWUFJe0lxxQCKrzcjPd-yBUY9wCti1Uc8mvGHchaU8FwNEMFC66BXpx7XYzs71L

16-8-8

Scale = 1:58.5



33-8-8 33-8-8												
LOADING TCLL TCDL BCLL	(psf) 20.0 10.0 0.0 *	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES	CSI. TC BC WB	0.03 0.02 0.06	DEFL. Vert(LL) Vert(TL) Horz(TL)	in -0.00 0.00 0.00	(loc) 1 1 20	l/defl n/r n/r n/a	L/d 120 120 n/a	PLATES MT20	GRIP 244/190
BCDL	10.0	Code IRC2009/Ti	PI2007	Matri	x-S						Weight: 228 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1 **BOT CHORD** 2x6 SP No.1 2x4 SP No.3 OTHERS

1-4-8

BRACING-

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 6-0-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 33-8-8.

(lb) - Max Horz 2=106(LC 5)

Max Uplift All uplift 100 lb or less at joint(s) 2, 30, 32, 33, 34, 35, 36, 37, 28, 26, 25, 24, 23, 22, 21 Max Grav All reactions 250 lb or less at joint(s) 2, 29, 30, 32, 33, 34, 35, 36, 37, 28, 26, 25, 24, 23, 22, 21, 20

17-0-0

17-0-0

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

NOTES-

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

- 2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=15ff; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 30, 32, 33, 34, 35, 36, 37, 28, 26, 25, 24, 23, 22, 21.



sters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job Truss Truss Type Qty Lot 38 South Creek / Harnett County J0918-4409 E11391727 C1 COMMON 1 | Job Reference (optional) 8.130 s Sep 15 2017 MiTek Industries, Inc. Wed Jan 24 14:14:33 2018 Page 1 Comtech, Inc., Fayetteville, NC 28309 ID:ZyxR5MYexMn1OulsRggYZvzvq71-QO2wNGDVTKcTlwUSrKCp0Mo3refuxWXKmShg4_zs71K -1-4-8 5-7-12 11-0-0 1-4-8 5-7-12 5-4-4 5-4-4 5-7-12 5x5 = Scale = 1:55.5 5 9.00 12 2x4 \\ 6 5x5 / 5x5 \ 16 7 5x5 < 12 11 10 3x10 || 3x10 || 3x4 = 4x6 = 3x4 = 14-6-13 22-0-0 7-5-3 7-1-11 7-5-3 Plate Offsets (X,Y)--[2:0-7-11,0-0-5], [8:0-7-11,0-0-5] LOADING (psf) SPACING-CSI. DEFL. (loc) I/defl L/d PLATES GRIP TCLL 20.0 Plate Grip DOL 1.15 TC 0.18 Vert(LL) -0.06 10-12 >999 360 244/190 MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.25 Vert(TL) -0.10 10-12 >999 240 BCLL 0.0 Rep Stress Incr YES WB 0.24 Horz(TL) 0.02 n/a n/a BCDL 10.0 Code IRC2009/TPI2007 Matrix-S Wind(LL) 0.01 12 >999 240 Weight: 190 lb FT = 20%LUMBER-**BRACING-**

TOP CHORD

BOT CHORD

TOP CHORD 2x6 SP No.1 **BOT CHORD** 2x6 SP No.1 **WEBS** 2x4 SP No.3

SLIDER Left 2x8 SP No.1 3-8-2, Right 2x8 SP No.1 3-8-2

REACTIONS. (lb/size) 2=1098/0-3-8, 8=1098/0-3-8

Max Horz 2=254(LC 6)

Max Uplift 2=-84(LC 7), 8=-84(LC 8)

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

TOP CHORD 2-4=-1307/241, 4-5=-1109/341, 5-6=-1109/341, 6-8=-1307/241

BOT CHORD 2-12=-89/885, 10-12=0/660, 8-10=-57/885

WEBS 5-10=-137/504, 5-12=-137/504

NOTES-

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

2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) -1-3-0 to 3-1-13, Interior(1) 3-1-13 to 11-0-0, Exterior(2) 11-0-0 to 15-4-13 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8.

SEAL 036322

January 25,2018

Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

🛕 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters show, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent ucliapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and fruss systems, see

ANSI/TP11 Quality Criteria, DSB-99 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job Truss Truss Type Qty Lot 38 South Creek / Harnett County E11391728 J0918-4409 C1-GE **GABLE** 1 Job Reference (optional)
8.130 s Sep 15 2017 MiTek Industries, Inc. Wed Jan 24 14:14:34 2018 Page 1 Comtech, Inc., Fayetteville, NC 28309 ID:ZyxR5MYexMn1OulsRggYZvzvq71-uaclacE7EekKN43eP1k2ZZLGP22Wg_dT_6REcQzs71J 11-0-0 22-0-0 23-4-8 11-0-0 11-0-0 5x5 = Scale = 1:59.0 9 9.00 12 10 6 11 5 12 5x5 / 5x5 💉 13 3x10 || 3x10 || 25 24 23 22 21 20 19 16 4x6 = 22-0-0 22-0-0 Plate Offsets (X,Y)--[2:0-7-11,0-0-5], [14:0-7-11,0-0-5] LOADING (psf) SPACING-2-0-0 DEFL. in (loc) I/defl L/d PLATES GRIP TCLL 20.0 Plate Grip DOL 1.15 TC 0.06 Vert(LL) -0.00 120 244/190 14 n/r MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.03 Vert(TL) -0.00 14 120 n/r BCLL 0.0 * Rep Stress Incr YES WB 0.13 Horz(TL) 0.00 14 n/a n/a BCDL 10.0 Code IRC2009/TPI2007 Matrix-S Weight: 209 lb FT = 20%LUMBER-**BRACING-**TOP CHORD 2x6 SP No.1 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.

BOT CHORD 2x6 SP No.1 2x4 SP No.3 **OTHERS**

SLIDER Left 2x8 SP No.1 2-0-1, Right 2x8 SP No.1 2-0-1 **BOT CHORD** WEBS

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

1 Row at midpt 8-21

REACTIONS. All bearings 22-0-0.

(lb) - Max Horz 2=318(LC 6)

Max Uplift All uplift 100 lb or less at joint(s) 14, 22, 24, 19, 17 except 2=-116(LC 5), 23=-113(LC 7),

25=-208(LC 7), 18=-114(LC 8), 16=-197(LC 8)

Max Grav All reactions 250 lb or less at joint(s) 2, 14, 21, 22, 23, 24, 25, 19, 18, 17, 16

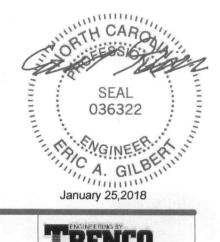
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-4=-286/196, 7-8=-88/251, 8-9=-88/251

NOTES-

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

- 2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14, 22, 24, 19, 17 except (jt=lb) 2=116, 23=113, 25=208, 18=114, 16=197.



A WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MIL-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

818 Soundside Road

Job Truss Truss Type Qty Ply Lot 38 South Creek / Harnett County E11391729 J0918-4409 C2 COMMON 3 1 | Job Reference (optional) 8.130 s Sep 15 2017 MiTek Industries, Inc. Wed Jan 24 14:14:35 2018 Page 1 Comtech Inc. Fayetteville, NC 28309 ID:ZyxR5MYexMn1OulsRggYZvzvq71-Mm9goyFl?ysB?EeryIFH6ntPKRLNPPzdDmAn8tzs71I 5-7-12 11-0-0 16-4-4 22-0-0 23-4-8 5-7-12 5-4-4 5-7-12 1-4-8 5x5 = Scale = 1:55.5 9.00 12 2x4 \\ 13 2x4 // 12 5x5 / 5x5 🚿 15 6 5x5 💉 11 10 9 3x10 || 3x10 || 3x4 = 4x6 = 3x4 = 7-5-3 14-6-13 22-0-0 7-5-3 7-1-11 7-5-3 Plate Offsets (X,Y)--[1:0-3-4,0-0-5], [7:0-7-11,0-0-5] LOADING (psf) SPACING-2-0-0 CSI. DEFL (loc) I/defl L/d **PLATES** GRIP TCLL 20.0 Plate Grip DOL 1 15 TC 0.18 Vert(LL) -0.06 9-11 >999 360 244/190 MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.25 Vert(TL) -0.09 9-11 >999 240 BCLL 0.0 Rep Stress Incr YES WB 0.25 Horz(TL) 0.02 n/a n/a BCDL 10.0 Code IRC2009/TPI2007 Matrix-S 0.01 Wind(LL) 11 >999 240 Weight: 186 lb FT = 20%LUMBER-BRACING-TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.

BOT CHORD

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

TOP CHORD 2x6 SP No.1 **BOT CHORD** 2x6 SP No.1 2x4 SP No.3 WEBS

SLIDER Left 2x8 SP No.1 3-8-2, Right 2x8 SP No.1 3-8-2

REACTIONS. (lb/size) 1=1021/0-3-8, 7=1100/0-3-8

Max Horz 1=-255(LC 5)

Max Uplift 1=-35(LC 7), 7=-84(LC 8)

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

1-3=-1315/252, 3-4=-1117/357, 4-5=-1112/342, 5-7=-1310/241 **BOT CHORD**

1-11=-90/893, 9-11=0/663, 7-9=-62/887

4-9=-136/503, 4-11=-139/512 **WEBS**

NOTES-

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

2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) 0-0-0 to 4-4-13, Interior(1) 4-4-13 to 11-0-0, Exterior(2) 11-0-0 to 15-4-13 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designs. Pracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job Truss Truss Type Qtv Plv Lot 38 South Creek / Harnett County E11391730 J0918-4409 D1 **ROOF TRUSS** 2 Job Reference (optional) Comtech, Inc., Fayetteville, NC 28309 8.130 s Sep 15 2017 MiTek Industries, Inc. Wed Jan 24 14:14:35 2018 Page 1 ID:ZyxR5MYexMn1OulsRggYZvzvq71-Mm9goyFl?ysB?EerylFH6ntLGREcPHGdDmAn8tzs71I 9-10-4 10,1-7 16-0-0 21-10-9 22-1-12 27-4-11 32-0-0 33-4-8 5-2-15 0-3-3 5-10-9 5-10-9 5-2-15 1-4-8 5x5 = Scale = 1:77.9 9.00 12 19 3x6 / 3x6 \ 4x6 / 16 4x6 \ 2x4 || 2x4 // 0-9-2 5x5 < 20 11 12-0-0 4x12 || 15 14 4x12 || 8x8 = 8x8 = 4-7-5 9-10-4 27-4-11 32-0-0 4-7-5 5-2-15 12-3-8 5-2-15 4-7-5 Plate Offsets (X,Y)-[2:0-5-4,0-0-5], [12:0-9-11,0-0-5], [14:0-2-12,0-3-8], [15:0-2-12,0-3-8] LOADING (psf) SPACING-2-0-0 CSI DEFL. in (loc) I/defl L/d **PLATES** GRIP Plate Grip DOL TCLL 20 0 1 15 TC 0 44 Vert(LL) 0.29 2-15 >999 360 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 BC 0.68 Vert(TL) -0.34 14-15 >999 240 BCLL 00 4 Rep Stress Incr YES WB 0.74 Horz(TL) 0.05 12 n/a n/a Code IRC2009/TPI2007 BCDL 10.0 Matrix-S Wind(LL) 0.34 2-15 >999 240 Weight: 282 lb FT = 20%

BRACING-

JOINTS

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x6 SP No.1

2x6 SP No.1 *Except* **BOT CHORD**

14-15: 2x10 SP No.1

WEBS 2x4 SP No.1 *Except*

4-15,10-14,7-16: 2x4 SP No.3

SLIDER Left 2x8 SP No.1 3-0-5, Right 2x8 SP No.1 3-0-5

REACTIONS. (lb/size) 2=1715/0-3-8, 12=1715/0-3-8

Max Horz 2=358(LC 6)

Max Uplift 2=-101(LC 7), 12=-101(LC 8)

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

TOP CHORD 2-4=-2164/350, 4-6=-1998/348, 6-7=-428/169, 7-8=-428/169, 8-10=-1998/348,

10-12=-2163/350

BOT CHORD 2-15=-172/1506, 14-15=-20/1576, 12-14=-137/1506

WEBS 6-16=-1333/317, 8-16=-1333/317, 6-15=0/593, 8-14=0/593, 4-15=-147/259,

10-14=-149/261

NOTES-

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

- 2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) -1-3-0 to 3-1-13, Interior(1) 3-1-13 to 16-0-0, Exterior(2) 16-0-0 to 20-4-13 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=101, 12=101.



Structural wood sheathing directly applied or 4-7-5 oc purlins.

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

1 Brace at Jt(s): 16

eters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Edenton, NC 27932

Job Truss Truss Type Qtv Plv Lot 38 South Creek / Harnett County E11391731 J0918-4409 D1-GE QUEENPOST Job Reference (optional) Fayetteville, NC 28309 Comtech, Inc., 8.130 s Sep 15 2017 MiTek Industries, Inc. Wed Jan 24 14:14:36 2018 Page 1 ID:ZyxR5MYexMn1OulsRggYZvzvq71-qyj2?IFNmF_2cOD1WSmWe_QZWrgX8somSQwKgJzs71H 16-0-0 27-2-15 16-9₁1 22-0-0 33-4-8 1-4-8 32-0-0 1-4-8 16-0-0 0-9-1 5-2-15 5-2-15 4-9-1 5x5 = Scale = 1:78.9 12 9.00 12 13 10 3x6 \ 15 4x6 / 34 4x6 \ 31 2x6 17 29 2x6 || 5x5 5x5 18 2x6 33 2x6 || 2x6 6 22 3x10 || 28 27 26 25 24 21 3x10 || 23 4x6 = 3x10 = 22-0-0 32-0-0 22-0-0 10-0-0 Plate Offsets (X,Y)--[2:0-7-11,0-0-5], [19:0-7-11,0-0-5] LOADING (psf) CSI. SPACING-2-0-0 DEFL. in (loc) I/defl L/d **PLATES** GRIP TCLL 20.0 Plate Grip DOL TC BC 1 15 0 15 Vert(LL) -0.05 21-23 >999 360 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 0.32 Vert(TL) -0.13 21-23 >999 240 BCLL 0.0 Rep Stress Incr YES WB 0.21 Horz(TL) -0.02 n/a n/a BCDL 10.0 Code IRC2009/TPI2007 Matrix-S Wind(LL) 0.01 21 >999 240 Weight: 343 lb FT = 20% LUMBER-BRACING-TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.

BOT CHORD

WEBS

JOINTS

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

11-30, 10-33, 9-24

1 Row at midpt

1 Brace at Jt(s): 29, 30, 31, 34

TOP CHORD 2x6 SP No.1 **BOT CHORD** 2x6 SP No 1

WEBS 2x4 SP No.3 *Except*

15-23: 2x6 SP No.1

SLIDER Left 2x8 SP No.1 1-10-6, Right 2x8 SP No.1 3-1-6

REACTIONS. All bearings 12-3-8 except (jt=length) 19=0-3-8.

Max Horz 19=448(LC 6) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 25, 27 except 24=-473(LC 2), 26=-102(LC 7), 28=-260(LC 7),

19=-216(LC 8)

Max Grav All reactions 250 lb or less at joint(s) 25, 26, 27, 28 except 2=376(LC 1), 23=1093(LC 2), 19=985(LC

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

TOP CHORD 14-15=-315/185, 15-17=-870/231, 17-19=-1104/247, 2-4=-459/90, 4-5=-273/64,

9-10=-277/134, 10-11=-255/200 **BOT CHORD**

2-28=-58/364, 27-28=-58/364, 26-27=-58/364, 25-26=-58/364, 24-25=-58/364,

23-24=-58/364, 21-23=-226/709, 19-21=-329/740 **WEBS**

23-33=-722/329, 30-33=-664/295, 29-30=-642/277, 29-32=-663/342, 31-32=-643/342,

31-34=-589/300, 15-34=-591/293, 15-21=-10/436, 4-28=-67/261

NOTES-

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

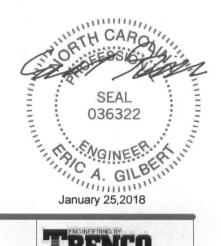
2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) All plates are 2x4 MT20 unless otherwise indicated.

4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 25, 27 except (jt=lb) 24=473, 26=102, 28=260, 19=216.



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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Edenton, NC 27932

Job Truss Truss Type Qtv Ply Lot 38 South Creek / Harnett County E11391732 J0918-4409 D₂ **ROOF TRUSS** 8 Job Reference (optional)
8.130 s Sep 15 2017 MiTek Industries, Inc. Wed Jan 24 14:14:37 2018 Page 1 Fayetteville, NC 28309 Comtech, Inc., ID:ZyxR5MYexMn1OulsRggYZvzvq71-I9HRCeG?XZ6vEYoD4AHIBCzg0FsNtC_wg4fuDlzs71G 4-7-5 9-10-4 10₁1-7 0-3-3 16-0-0 22-1-12 27-4-11 0-3-3 5-2-15 21-10-9 32-0-0 1-4-8 4-7-5 5-2-15 5-10-9 5-10-9 4-7-5 5x5 = Scale = 1:77.9 9.00 12 19 3x6 / 3x6 \ 4x6 / 15 4x6 \ 2x4 || 9 2x4 20 4x4 N 4x6 = 12-0-0 11_{3x6} || 0410 4x12 || 14 13 12 8x8 = 8x8 = 5x12 = 9-10-4 22-1-12 27-4-11 32-0-0 4-7-5 5-2-15 12-3-8 5-2-15 4-7-5 Plate Offsets (X,Y)-[2:0-5-4,0-0-5], [12:0-3-12,0-2-8], [13:0-2-12,0-3-8], [14:0-2-12,0-3-8] LOADING (psf) SPACING-2-0-0 DEFL. (loc) I/defl L/d **PLATES** GRIP Plate Grip DOL TCLL 20 0 1.15 TC 0.42 Vert(LL) -0.32 14 >999 360 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 BC 0.92 Vert(TL) -0.42 2-14 >901 240 BCLL 0.0 Rep Stress Incr WB 0.66 YES Horz(TL) 0.04 12 n/a n/a BCDL 10.0 Code IRC2009/TPI2007 Matrix-S 0.35 2-14 Wind(LL) >999 240 Weight: 279 lb FT = 20% LUMBER-BRACING-TOP CHORD 2x6 SP No.1 TOP CHORD Structural wood sheathing directly applied or 4-8-11 oc purlins. **BOT CHORD** Rigid ceiling directly applied or 2-2-0 oc bracing.

WEBS

JOINTS

1 Row at midpt

1 Brace at Jt(s): 15

10-12

2x6 SP No.1 *Except* **BOT CHORD**

13-14: 2x10 SP No.1

WEBS 2x4 SP No.3 *Except*

6-8,6-14,8-13: 2x4 SP No.1

OTHERS 2x6 SP No.1

SLIDER Left 2x8 SP No.1 3-0-5

REACTIONS. (lb/size) 2=1681/0-3-8, 12=1619/0-3-8

Max Horz 2=358(LC 6)

Max Uplift 2=-100(LC 7), 12=-49(LC 8)

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

TOP CHORD 2-4=-2120/342, 4-6=-1927/338, 6-7=-423/168, 7-8=-438/170, 8-10=-1919/345,

10-11=-276/86

BOT CHORD 2-14=-187/1470, 13-14=-68/1508, 12-13=-177/1321

WEBS 6-15=-1260/313, 8-15=-1260/313, 6-14=0/581, 8-13=0/558, 4-14=-150/252,

10-13=-126/350, 10-12=-1802/263

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) -1-3-0 to 3-1-13, Interior(1) 3-1-13 to 16-0-0, Exterior(2) 16-0-0 to 20-4-13 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) *This truss has been designed for a live load of 30.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12 except (jt=lb)



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ANSI/TPI1 Quality Criteria, DSB-99 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job Truss Truss Type Qtv Ply Lot 38 South Creek / Harnett County E11391733 J0918-4409 D3-GE MONOPITCH SUPPORTED 1 | Job Reference (optional) 8.130 s Sep 15 2017 MiTek Industries, Inc. Wed Jan 24 14:14:37 2018 Page 1 Comtech, Inc., Fayetteville, NC 28309 ID:ZyxR5MYexMn1OulsRggYZvzvq71-I9HRCeG?XZ6vEYoD4AHIBCzITF4PtLfwg4fuDlzs71G -1-4-8 12-0-0 1-4-8 12-0-0 10 Scale = 1:50.0 4x6 / 6 9.00 12 X 3x10 16 15 14 13 12 11 12-0-0 12-0-0 Plate Offsets (X,Y)--[2:0-7-11,0-0-5] LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defl L/d **PLATES** GRIP Plate Grip DOL 20.0 TCLL 1.15 TC 0.07 Vert(LL) 0.00 120 MT20 244/190

LUMBER-

TCDL

BCLL

BCDL

TOP CHORD 2x6 SP No.1 **BOT CHORD** 2x6 SP No.1

10.0

10.0

0.0 *

WEBS 2x6 SP No.1 OTHERS

SLIDER Left 2x8 SP No.1 1-10-6

2x4 SP No.3

Lumber DOL

Rep Stress Incr

Code IRC2009/TPI2007

BRACING-

WEBS

Vert(TL)

Horz(TL)

-0.00

-0.00

TOP CHORD

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

Weight: 132 lb

FT = 20%

except end verticals **BOT CHORD**

11

n/r

n/r

n/a

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

1 Row at midpt 10-11, 9-12

120

n/a

REACTIONS. All bearings 12-0-0.

(lb) -Max Horz 2=452(LC 7)

Max Uplift All uplift 100 lb or less at joint(s) 11, 2, 12, 14, 15 except 13=-102(LC 7), 16=-306(LC 7)

BC

WB

Matrix-S

0.02

0.11

Max Grav All reactions 250 lb or less at joint(s) 11, 12, 13, 14, 15, 16 except 2=383(LC 7)

1.15

YES

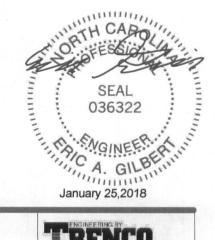
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

2-4=-598/59, 4-5=-379/38, 5-6=-299/35 TOP CHORD

WEBS 4-16=-103/310

NOTES-

- 1) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 2-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11, 2, 12, 14, 15 except (jt=lb) 13=102, 16=306.



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Job Truss Truss Type Qty Ply Lot 38 South Creek / Harnett County E11391734 J0918-4409 E1 COMMON | Job Reference (optional) 8.130 s Sep 15 2017 MiTek Industries, Inc. Wed Jan 24 14:14:38 2018 Page 1 Comtech, Inc., Favetteville, NC 28309 ID:ZyxR5MYexMn1OulsRggYZvzvq71-mLrpQ_HeltEmsiNQeto_jPVtAfM9cnl3vkPRlCzs71F 8-3-12 16-7-8 18-0-0 1-4-8 8-3-12 1-4-8 Scale = 1:33.5 6.00 12 4x4 = 5 4x4 > 4x4 > 1-0-5 8 3x6 3x6 8x8 = 8-3-12 16-7-8 8-3-12 8-3-12 Plate Offsets (X,Y)-[2:0-3-7,0-1-0], [6:0-3-7,0-1-0], [8:0-4-0,0-4-8] LOADING (psf) SPACING-2-0-0 DEFL. in (loc) I/defl L/d **PLATES** GRIP TCLL 20 0 Plate Grip DOL 1.15 TC 0.27 Vert(LL) -0.02 2-8 >999 360 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 BC 0.24 Vert(TL) -0.07 2-8 >999 240 BCLL 0.0 * Rep Stress Incr YES WB 0.15 Horz(TL) 0.01 6 n/a n/a BCDL 10.0 Code IRC2009/TPI2007 Matrix-S Wind(LL) 0.01 2-8 >999 240 FT = 20% Weight: 110 lb LUMBER-**BRACING-**TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.

BOT CHORD

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

TOP CHORD 2x6 SP No.1 BOT CHORD 2x6 SP No.1 WEBS 2x4 SP No.3

SLIDER Left 2x4 SP No.3 4-7-1, Right 2x4 SP No.3 4-7-1

REACTIONS. (lb/size) 2=738/0-3-8, 6=738/0-3-8

Max Horz 2=-59(LC 5)

Max Uplift 2=-84(LC 7), 6=-84(LC 8)

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

TOP CHORD 2-4=-880/225, 4-6=-880/225

BOT CHORD 2-8=-53/655, 6-8=-53/655

WEBS 4-8=0/384

NOTES-

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

2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=15ff; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) -1-2-10 to 3-2-3, Interior(1) 3-2-3 to 8-3-12, Exterior(2) 8-3-12 to 12-8-9 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.





Job Truss Truss Type Ply Qtv Lot 38 South Creek / Harnett County E11391735 J0918-4409 E1-GE COMMON SUPPORTED GAB Job Reference (optional) Fayetteville, NC 28309 Comtech, Inc., 8.130 s Sep 15 2017 MiTek Industries, Inc. Wed Jan 24 14:14:39 2018 Page 1 ID:ZyxR5MYexMn1OulsRggYZvzvq71-EXPBdJIG3AMcTrycBbJDGd26b3l?LGFD8O8?Hezs71E -1-4-8 8-3-12 16-7-8 18-0-0 1-4-8 8-3-12 8-3-12 1-4-8 Scale = 1:34 7 5x5 = 8 6.00 12 9 5 10 4x4 > 4x4 = 11 12 1-0-5 3x6 3x6 || 20 19 18 17 16 15 14 8x8 = 16-7-8 16-7-8 Plate Offsets (X,Y)-[17:0-4-0,0-4-8] LOADING (psf) SPACING-2-0-0 CSI DEFL. in (loc) I/defl L/d **PLATES** GRIP TCLL 20.0 Plate Grip DOL 1 15 TC 0.03 Vert(LL) -0.00 12 n/r 120 MT20 244/190 0.01 TCDL 10.0 Lumber DOL 1.15 BC Vert(TL) -0.0013 n/r 120 BCLL 00 4 Rep Stress Incr YES WB 0.04 Horz(TL) 0.00 12 n/a Code IRC2009/TPI2007 BCDI 10.0 Matrix-S Weight: 121 lb FT = 20% **BRACING-**

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x6 SP No.1 **BOT CHORD** 2x6 SP No.1 **OTHERS** 2x4 SP No.3

SLIDER Left 2x4 SP No.3 1-6-8, Right 2x4 SP No.3 1-6-8

REACTIONS. All bearings 16-7-8.

(lb) - Max Horz 2=-69(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 12, 18, 19, 20, 16, 15, 14, 2 Max Grav All reactions 250 lb or less at joint(s) 12, 17, 18, 19, 20, 16, 15, 14, 2

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

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

- 2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 18, 19, 20, 16, 15, 14, 2.



Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

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ANSI/TPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Edenton, NC 27932

Job Truss Truss Type Qty Ply Lot 38 South Creek / Harnett County E11391736 J0918-4409 E2 COMMON GIRDER 2 | Z | Job Reference (optional) 8.130 s Sep 15 2017 MiTek Industries, Inc. Wed Jan 24 14:14:39 2018 Page 1 Comtech, Inc., Fayetteville, NC 28309 ID:ZyxR5MYexMn1OulsRggYZvzvq71-EXPBdJIG3AMcTrycBbJDGd24Q3iSLEGD8O8?Hezs71E 8-3-12 16-7-8 4-2-13 4-0-15 4-2-13 5x5 = Scale = 1:31.2 6.00 12 2x4 \ 2 1-0-5 9 10 8 11 12 6 13 15 5x8 5x5 = 5x8 = 6x8 = 5x5 = 5-7-2 11-0-6 16-7-8 5-5-5 5-7-2 LOADING (psf) SPACING-2-0-0 CSL DEFL in (loc) I/defi L/d PLATES GRIP TCLL 20.0 Plate Grip DOL 0.17 TC -0.01 1.15 Vert(LL) 6-8 >999 360 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 BC 0.24 Vert(TL) -0.02 6-8 >999 240

Horz(TL)

Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

0.01

-0.03

5

6-8 >999

n/a

n/a

240

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

Structural wood sheathing directly applied or 6-0-0 oc purlins.

Weight: 262 lb

FT = 20%

LUMBER-

BCLL

BCDL

TOP CHORD 2x6 SP No.1 **BOT CHORD** 2x10 SP No.1 **WEBS** 2x4 SP No.3

0.0

10.0

REACTIONS. (lb/size) 1=794/0-3-8, 5=874/0-3-8

Max Horz 1=-58(LC 11)

Max Uplift 1=-675(LC 5), 5=-962(LC 6) Max Grav 1=1392(LC 11), 5=2010(LC 12)

Rep Stress Incr

Code IRC2009/TPI2007

NO

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 1-2=-2057/1023, 2-3=-2044/1045, 3-4=-2071/1057, 4-5=-2086/1035 TOP CHORD

BOT CHORD 1-8=-877/1810, 6-8=-603/1378, 5-6=-834/1776

3-6=-534/1102, 4-6=-150/313, 3-8=-514/1058, 2-8=-150/315 WEBS

NOTES-

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc. Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-7-0 oc. Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

WB

Matrix-S

0.16

- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise); Lumber DOL=1.60 plate grip DOL=1.60
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) *This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=675, 5=962.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 360 lb down and 175 lb up at 2-0-12, 360 lb down and 175 lb up at 4-0-12, 360 lb down and 175 lb up at 6-0-12, 360 lb down and 175 lb up at 8-0-12, 360 lb down and 175 lb up at 10-0-12, 360 lb down and 175 lb up at 12-0-12, and 360 lb down and 175 lb up at 14-0-12, and 730 lb down and 340 lb up at 16-1-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-3=-60, 3-5=-60, 1-5=-20

Concentrated Loads (lb)

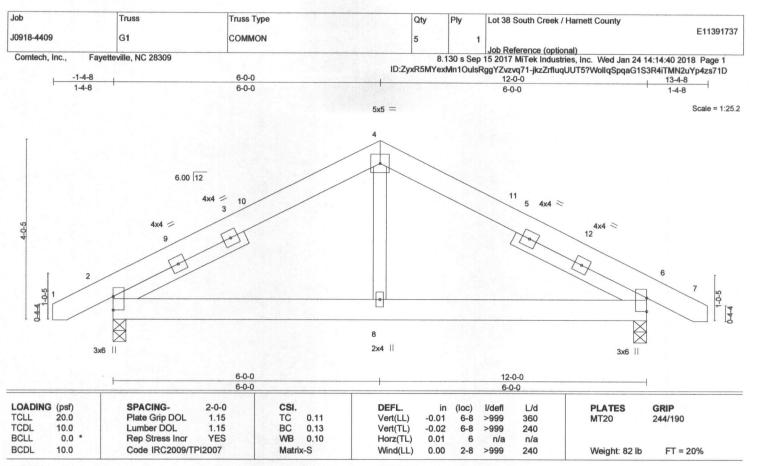
Vert: 7=-38(F) 9=-38(F) 10=-38(F) 11=-38(F) 12=-38(F) 13=-38(F) 14=-38(F) 15=-93(F)

MORTH ruary 25,2018

A WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSITP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.





BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x6 SP No.1 BOT CHORD 2x6 SP No.1 2x4 SP No.3 WEBS

SLIDER Left 2x4 SP No.3 3-3-9, Right 2x4 SP No.3 3-3-9

REACTIONS. (lb/size) 2=553/0-3-8, 6=553/0-3-8

Max Horz 2=45(LC 6) Max Uplift 2=-74(LC 7), 6=-74(LC 8)

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

TOP CHORD 2-4=-609/203, 4-6=-609/203 **BOT CHORD** 2-8=-48/439, 6-8=-48/439

WEBS 4-8=0/271

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) -1-2-10 to 3-2-3, Interior(1) 3-2-3 to 6-0-0, Exterior(2) 6-0-0 to 10-4-13 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.



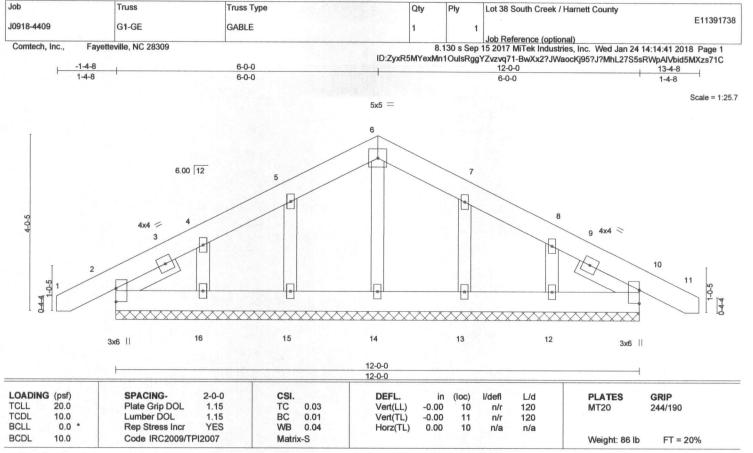
Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

neters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters and properly incorporate this design into the overall building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

Assist Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.





BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x6 SP No.1 **BOT CHORD** 2x6 SP No.1 **OTHERS** 2x4 SP No.3

SLIDER Left 2x4 SP No.3 1-6-8, Right 2x4 SP No.3 1-6-8

REACTIONS. All bearings 12-0-0.

(lb) - Max Horz 2=52(LC 7)

Max Uplift All uplift 100 lb or less at joint(s) 2, 10, 15, 16, 13, 12 Max Grav All reactions 250 lb or less at joint(s) 2, 10, 14, 15, 16, 13, 12

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

NOTES-

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

- 2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10, 15, 16, 13, 12

ORTH nuary 25,2018

Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

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ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job Truss Truss Type Qtv Plv Lot 38 South Creek / Harnett County E11391739 J0918-4409 H1-GE COMMON SUPPORTED GAB 1 Job Reference (optional) Comtech, Inc., Fayetteville, NC 28309 8.130 s Sep 15 2017 MiTek Industries, Inc. Wed Jan 24 14:14:42 2018 Page 1 ID:gr_TFs2_YWUF.Je0lxxQCKrzcjPd-f64KGLK8L5kBKJgBtjtwuFgb2Gn2YcHfqMNfuzzs71B 12-0-0 13-4-8 -1-4-8 6-0-0 1-4-8 6-0-0 1-4-8 Scale: 3/8"=1" 5 6 9.00 12 2x6 || 2x6 || 1-1-11 -1-1 9 16 15 14 13 12-0-0 12 11 10 12-0-0 LOADING (psf) SPACING-2-0-0 CSL DEFL in (loc) I/defl L/d **PLATES** GRIP TCLL 20.0 Plate Grip DOL 0.15 1.15 TC -0.01 Vert(LL) 9 n/r 120 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 BC 0.06 Vert(TL) -0.02 9 n/r 120 BCLL 0.0 * Rep Stress Incr WB 0.08 YES Horz(TL) 0.00 10 n/a n/a Code IRC2009/TPI2007 BCDL 10.0 Matrix-R Weight: 74 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.1 **BOT CHORD** 2x4 SP No.1 2x6 SP No.1 **WEBS** OTHERS 2x4 SP No 3 BRACING-

TOP CHORD Structural wood sheathing directly applied or 10-0-0 oc purlins,

except end verticals.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 12-0-0.

(lb) - Max Horz 16=157(LC 6)

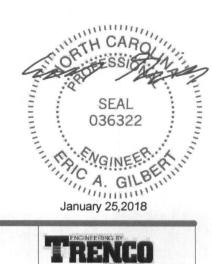
Max Uplift All uplift 100 lb or less at joint(s) 16, 10, 14, 12 except 15=-118(LC 6), 11=-110(LC 5)

Max Grav All reactions 250 lb or less at joint(s) 16, 10, 13, 14, 15, 12, 11

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
 2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16, 10, 14, 12 except (jt=lb) 15=118, 11=110.



🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job Truss Truss Type Qty Ply Lot 38 South Creek / Harnett County E11391740 J0918-4409 H2 Common Girder 2 | ____ | Job Reference (optional) 8.130 s Sep 15 2017 MiTek Industries, Inc. Wed Jan 24 14:14:42 2018 Page 1 Comtech, Inc., Fayetteville, NC 28309 $ID:gr_TFs2_YWUFJe0lxxQCKrzcjPd-f64KGLK8L5kBKJgBtjtwuFgWyGdMYOSfqMNfuzzs71B$ 6-0-0 6-0-0 Scale = 1:33.9 5x5 2 9.00 12 5 4x8 4x8 4x8 6-0-0 12-0-0 6-0-0 6-0-0 Plate Offsets (X,Y)-[1:0-0-4,0-0-5], [1:0-0-7,0-3-11], [3:0-0-7,0-3-11], [3:0-0-4,0-0-5], [4:0-6-4,0-2-0] LOADING (psf) SPACING-2-0-0 CSI. DEFL. GRIP in (loc) I/def L/d **PLATES** 20.0 Plate Grip DOL TCLL 1.15 TC 0.47 Vert(LL) -0.04 3-4 >999 360 244/190 MT20 TCDL 10.0 Lumber DOL BC 1.15 0.68 Vert(TL) -0.10 3-4 >999 240 BCLL 0.0 * Rep Stress Incr WB NO 0.97 Horz(TL) 0.02 3 n/a n/a Code IRC2009/TPI2007 BCDL 10.0 Matrix-S Wind(LL) 0.03 FT = 20% 3-4 >999 240 Weight: 163 lb

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x6 SP No.1 BOT CHORD 2x8 SP No.1 WEBS 2x4 SP No.3

WEDGE

Left: 2x4 SP No.3, Right: 2x4 SP No.3

REACTIONS. (lb/size) 1=3791/0-3-8, 3=3734/0-3-8

Max Horz 1=140(LC 4)

Max Uplift 1=-293(LC 5), 3=-289(LC 6)

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

TOP CHORD 1-2=-3994/351, 2-3=-3994/351 BOT CHORD 1-4=-218/2984, 3-4=-218/2984

WEBS 2-4=-314/4677

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc. Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-7-0 oc. Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise); Lumber DOL=1.60 plate grip DOL=1.60
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=293, 3=289.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1318 lb down and 109 lb up at 1-11-4, 1318 lb down and 109 lb up at 3-11-4, 1318 lb down and 109 lb up at 5-11-4, and 1318 lb down and 109 lb up at 7-11-4, and 1318 lb down and 109 lb up at 9-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)

Vert: 1-2=-60, 2-3=-60, 1-3=-20

SEAL 036322

Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

Continued on page 2



18 Soundside Road

Job Truss Truss Type Qty Ply Lot 38 South Creek / Harnett County

J0918-4409 H2 Common Girder 1 2 Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309

LOAD CASE(S) Standard Concentrated Loads (lb)

Vert: 4=-1318(B) 5=-1318(B) 6=-1318(B) 7=-1318(B) 8=-1318(B)



Job Truss Truss Type Qty Ply Lot 38 South Creek / Harnett County E11391741 J0918-4409 J1 ROOF SPECIAL 3 1 | Job Reference (optional) 8.130 s Sep 15 2017 MiTek Industries, Inc. Wed Jan 24 14:14:43 2018 Page 1 Comtech, Inc., Fayetteville, NC 28309 ID:ZyxR5MYexMn1OulsRggYZvzvq71-7JeiThLm6Ps2yTFNQQO9QTCh8g?KHy7o306CQPzs71A -1-4-8 3-0-0 6-0-0 3-0-0 3-0-0 Scale = 1:15.8 5.00 12 _{4x8} = 2x4 || 8 2-6-13 2x4 1-4-0 12 11 2x6 || 10 10x10 = 3-0-0 6-0-0 3-0-0 3-0-0 Plate Offsets (X,Y)--[2:Edge,0-5-5], [2:0-7-2,0-0-10], [2:0-0-12,0-0-5], [7:0-3-0,0-4-0], [11:0-4-0,0-4-0] LOADING (psf) SPACING-2-0-0 CSI. DEFL in (loc) I/defl L/d **PLATES** GRIP 20.0 Plate Grip DOL TCLL 1.15 TC 0.51 -0.02 Vert(LL) 2-12 >999 360 MT20 244/190 TCDL 10.0 BC Lumber DOL 0.56 1.15 Vert(TL) -0.06 2-12 >999 240 Rep Stress Incr BCLL 0.0 NO WB 0.56 Horz(TL) 0.01 n/a n/a Code IRC2009/TPI2007 BCDL 10.0 Matrix-S Wind(LL) 0.05 2-12 >999 240 Weight: 45 lb FT = 20% LUMBER-BRACING-TOP CHORD 2x6 SP No.1 TOP CHORD Structural wood sheathing directly applied or 3-0-0 oc purlins, **BOT CHORD** 2x6 SP No.1 except end verticals, and 2-0-0 oc purlins: 7-12, 3-9. **WEBS** 2x4 SP No.3 *Except* **BOT CHORD** Rigid ceiling directly applied or 5-10-4 oc bracing. 7-12: 2x6 SP No.1 **JOINTS** 1 Brace at Jt(s): 5 WEDGE Left: 2x4 SP No.3

REACTIONS. (lb/size) 2=826/0-3-8, 11=1618/Mechanical

Max Horz 2=70(LC 7)

Max Uplift 2=-122(LC 7), 11=-170(LC 7)

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

TOP CHORD

2-3=-1420/1293, 7-12=-382/475, 3-5=-1429/1434, 5-7=-1429/1434

BOT CHORD

2-12=-1434/1429, 11-12=-1617/1643 8-11=-376/361, 7-11=-1902/1872

WEBS

NOTES-1) Unbalanced roof live loads have been considered for this design.

2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Corner(3) -1-2-7 to 4-0-0, Exterior(2) 3-8-12 to 6-0-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Provide adequate drainage to prevent water ponding.

- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.

Refer to girder(s) for truss to truss connections.

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=122, 11=170.

8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1900 lb down and 1869 lb up at 4-4-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-3=-60, 3-4=-60, 4-6=-20, 2-10=-20, 5-7=-60, 7-8=-60, 8-9=-20

Concentrated Loads (lb)

Vert: 7=-1900

SEAL 036322 January 25,2018

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ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job Truss Truss Type Qty Ply Lot 38 South Creek / Harnett County E11391742 J0918-4409 J2 ROOF SPECIAL 2 | Z | Job Reference (optional) 8.130 s Sep 15 2017 MiTek Industries, Inc. Wed Jan 24 14:14:43 2018 Page 1 Comtech, Inc., Fayetteville, NC 28309 ID:ZyxR5MYexMn1OulsRggYZvzvq71-7JeiThLm6Ps2yTFNQQO9QTCf?g?KHyvo306CQPzs71A -1-4-8 3-0-0 6-0-0 1-4-8 3-0-0 3-0-0 Scale = 1:14.8 4x8 = 5.00 12 2x4 || 6 5 2-1-13 11 14-0 14-0 10 8x8 = 8x8 3-0-0 6-0-0 3-0-0 3-0-0 Plate Offsets (X,Y)--[2:Edge,0-4-5], [2:0-7-2,0-0-10], [2:0-0-12,0-0-5], [5:0-4-4,0-2-4], [9:0-3-8,0-5-0], [10:0-0-0,0-2-12] LOADING (psf) SPACING-2-0-0 CSI. DEFL. (loc) I/def L/d **PLATES** GRIP TCLL 20.0 Plate Grip DOL 1.15 TC 0.58 Vert(LL) -0.022-10 >999 360 MT20 244/190 TCDL 10.0 Lumber DOL BC 1.15 0.56 Vert(TL) -0.062-10 >999 240 0.0 * BCLL Rep Stress Incr NO WB 0.57 Horz(TL) -0.01 q n/a n/a

Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

0.06 2-10 >999

240

Structural wood sheathing directly applied or 3-0-0 oc purlins,

except end verticals, and 2-0-0 oc purlins: 5-10, 3-7.

Rigid ceiling directly applied or 8-11-2 oc bracing.

Weight: 82 lb

FT = 20%

LUMBER-

BCDL

TOP CHORD 2x6 SP No.1 2x6 SP No.1 **BOT CHORD** 2x4 SP No.3 *Except* WEBS

5-10: 2x6 SP No.1

WEDGE

10.0

Left: 2x4 SP No.3

REACTIONS. (lb/size) 2=1357/0-3-8, 9=3011/Mechanical

Max Horz 2=56(LC 6)

Max Uplift 2=-172(LC 7), 9=-333(LC 6)

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

Code IRC2009/TPI2007

TOP CHORD 2-3=-2397/2651, 5-10=-827/1004, 3-5=-2433/2837 2-10=-2837/2433, 9-10=-3316/3024

BOT CHORD 6-9=-713/753, 5-9=-3501/3839 **WEBS**

NOTES-

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc. Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc. Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

Matrix-S

3) Unbalanced roof live loads have been considered for this design.

4) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Corner(3) -1-2-7 to 3-0-0, Exterior(2) 1-1-9 to 6-0-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

5) Provide adequate drainage to prevent water ponding.

6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads

* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.

8) Refer to girder(s) for truss to truss connections.

9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)

10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

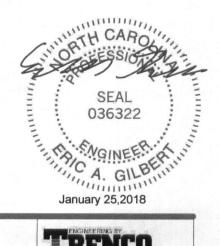
11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 3792 lb down and 4081 lb up at 4-3-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

Continued on page 2

🛕 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.





Edenton, NC 27932

Job Truss Truss Type Qty Ply Lot 38 South Creek / Harnett County

J0918-4409 J2 ROOF SPECIAL 1 2 Job Reference (optional)

Comtech, Inc.,

Fayetteville, NC 28309

Job Reference (optional)

8.130 s Sep 15 2017 MiTek Industries, Inc. Wed Jan 24 14:14:43 2018 Page 2
ID:ZyxR5MYexMn1OulsRggYZvzvq71-7JeiThLm6Ps2yTFNQQO9QTCf?g?KHyvo306CQPzs71A

LOAD CASE(S) Standard

Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Control Contro

Vert: 1-3=-60, 3-4=-60, 2-8=-20, 3-11=-20, 5-11=-60, 5-6=-60, 6-7=-20 Concentrated Loads (lb)

Vert: 5=-3792



Job Truss Truss Type Qty Ply Lot 38 South Creek / Hamett County E11391743 J0918-4409 J3 ROOF SPECIAL 6 | Job Reference (optional) 8.130 s Sep 15 2017 MiTek Industries, Inc. Wed Jan 24 14:14:44 2018 Page 1 Comtech, Inc., Fayetteville, NC 28309 ID:ZyxR5MYexMn1OulsRggYZvzvq71-bVC4h1MOtj?vadqZ_8vOzglvC4QS0SMyHgsmyrzs719 -1-4-8 3-0-0 6-0-0 1-4-8 3-0-0 3-0-0 Scale = 1:15.4 4x8 = 5.00 12 2x4 2-1-13 0-4-4 8_{2x4} || 4x12 || 3-0-0 6-3-8 3-0-0 3-3-8 Plate Offsets (X,Y)--[2:0-0-5,0-0-12], [2:0-0-10,0-7-2], [2:0-5-8,Edge] LOADING (psf) SPACING-2-0-0 DEFL. in (loc) I/defl L/d **PLATES** GRIP 20.0 Plate Grip DOL TCLL TC BC 1 15 0 29 Vert(LL) -0.01 8 >999 360 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 0.25 Vert(TL) -0.038 >999 240 BCLL 0.0 * Rep Stress Incr NO WB 0.37 Horz(TL) -0.01 n/a n/a

Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

0.03

8 >999 240

Structural wood sheathing directly applied or 3-0-0 oc purlins,

except end verticals, and 2-0-0 oc purlins: 5-8, 3-6.

Rigid ceiling directly applied or 6-11-9 oc bracing.

Weight: 45 lb

FT = 20%

LUMBER-

BCDL

TOP CHORD 2x6 SP No.1 **BOT CHORD** 2x6 SP No.1

10.0

2x6 SP No.1 *Except* **WEBS**

5-7: 2x4 SP No.3

WEDGE

Left: 2x4 SP No.3

REACTIONS. (lb/size) 2=632/0-3-8, 7=595/0-3-8

Max Horz 2=56(LC 6)

Max Uplift 2=-97(LC 7), 7=-87(LC 6)

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

Code IRC2009/TPI2007

TOP CHORD

2-3=-839/1132, 3-5=-749/1224 2-8=-1224/749, 7-8=-1175/913

BOT CHORD 6-7=-229/287, 5-7=-956/1230 WEBS

NOTES-

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

2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Corner(3) -1-2-7 to 3-0-0, Exterior(2) 1-1-9 to 6-0-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

Matrix-S

3) Provide adequate drainage to prevent water ponding.

- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 7.
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 250 lb down and 269 lb up at 3-4-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-3=-60, 3-4=-60, 2-7=-20, 3-5=-100, 5-6=-140

Concentrated Loads (lb)

Vert: 5=-250

SEAL 036322 January 25,2018

A WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job Truss Truss Type Qty Ply Lot 38 South Creek / Harnett County F11391744 J0918-4409 K1-GE COMMON SUPPORTED GAB Job Reference (optional) Comtech, Inc., Fayetteville, NC 28309 8.130 s Sep 15 2017 MiTek Industries, Inc. Wed Jan 24 14:14:45 2018 Page 1 ID:ZyxR5MYexMn1OulsRggYZvzvq71-3hmSuNM1e07mBmPmYrQdWul8_ToElzh5WKbJVlzs718 -1-4-8 10-0-0 20-0-0 21-4-8 1-4-8 1-4-8 10-0-0 10-0-0 5x5 = Scale = 1:53.8 9.00 12 10 11 12 5x5 > 13 3x10 3x10 || 24 23 22 21 20 19 17 16 18 8x8 = 20-0-0 20-0-0 Plate Offsets (X,Y)--[2:0-7-11,0-0-5], [14:0-7-11,0-0-5], [19:0-4-0,0-4-8] LOADING (psf) SPACING-2-0-0 DEFL. in (loc) I/defl L/d **PLATES** GRIP 20.0 TCLL Plate Grip DOL 1.15 TC 0.04 Vert(LL) -0.00 14 n/r 120 MT20 244/190 BC TCDL 10.0 0.02 Lumber DOL 1.15 Vert(TL) -0.0015 n/r 120 BCLL 0.0 Rep Stress Incr YES WB 0.10 Horz(TL) 0.00 n/a n/a Code IRC2009/TPI2007 BCDL 10.0 Matrix-S FT = 20% Weight: 188 lb **BRACING-**

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x6 SP No.1 **BOT CHORD** 2x6 SP No.1 **OTHERS** 2x4 SP No.3

SLIDER Left 2x8 SP No.1 1-10-6, Right 2x8 SP No.1 1-10-6

REACTIONS. All bearings 20-0-0.

(lb) - Max Horz 2=292(LC 6)

Max Uplift All uplift 100 lb or less at joint(s) 14, 21, 23, 19, 17 except 22=-108(LC 7), 24=-185(LC 7),

18=-110(LC 8), 16=-171(LC 8), 2=-130(LC 5)

Max Grav All reactions 250 lb or less at joint(s) 14, 20, 21, 22, 23, 24, 19, 18, 17, 16, 2

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

TOP CHORD 2-4=-303/183

NOTES-

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

- 2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14, 21, 23, 19, 17 except (jt=lb) 22=108, 24=185, 18=110, 16=171, 2=130.
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 14.

ORTH nuary 25,2018

Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

1 Row at midpt

eters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job Truss Truss Type Qty Ply Lot 38 South Creek / Harnett County E11391745 J0918-4409 VE-1 VALLEY | Job Reference (optional) 8.130 s Sep 15 2017 MiTek Industries, Inc. Wed Jan 24 14:14:45 2018 Page 1 Comtech, Inc., Fayetteville, NC 28309 ID:ZyxR5MYexMn1OulsRggYZvzvq71-3hmSuNM1e07mBmPmYrQdWul6zTnDI_h5WKbJVlzs718 4-1-2 8-2-4 4-1-2 4-1-2 4x4 = Scale = 1:14.9 2 6.00 12 2x4 = 2x4 || 2x4 > 8-2-4 8-2-4 LOADING (psf) SPACING-CSI. DEFL 2-0-0 in (loc) I/defl L/d **PLATES** GRIP 20.0 TCLL Plate Grip DOL TC 0.17 1.15 Vert(LL) n/a n/a 999 MT20 244/190 TCDL 10.0 BC Lumber DOL 1 15 0.09 Vert(TL) n/a n/a 999 WB BCLL Rep Stress Incr 0.0 YES 0.04 Horz(TL) 0.00 3 n/a n/a BCDL 10.0 Code IRC2009/TPI2007 Matrix-P Weight: 26 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.1 **BOT CHORD** 2x4 SP No.1 2x4 SP No.3 **OTHERS**

REACTIONS. (lb/size) 1=142/8-2-4, 3=142/8-2-4, 4=272/8-2-4

Max Horz 1=-22(LC 5)

Max Uplift 1=-22(LC 7), 3=-26(LC 8)

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

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

2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.

6) Non Standard bearing condition. Review required.

SEAL 036322 VGINEER January 25,2018

Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job Truss Truss Type Qty Plv Lot 38 South Creek / Harnett County E11391746 J0918-4409 VH-1 GABLE | Job Reference (optional) 8.130 s Sep 15 2017 MiTek Industries, Inc. Wed Jan 24 14:14:46 2018 Page 1 Comtech, Inc., Fayetteville, NC 28309 ID:ZyxR5MYexMn1OulsRggYZvzvq71-XuKq5jNfPKFdpw_y6Zxs25qFSt5WUQCFI_Ls1kzs717 5-9-13 11-7-11 5-9-13 5-9-14 4x6 = Scale = 1:27.3 9.00 12 3x4 / 3x4 \ 2x4 || 11-7-11 11-7-11 LOADING (psf) SPACING-2-0-0 CSL DEFL in (loc) I/defl L/d **PLATES** GRIP TCLL 20.0 Plate Grip DOL 0.31 TC 1.15 Vert(LL) n/a n/a 999 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 BC 0.21 Vert(TL) n/a n/a 999 BCLL 0.0 * Rep Stress Incr WB YES 0.09 Horz(TL) 0.00 3 n/a n/a BCDL 10.0 Code IRC2009/TPI2007 Matrix-S Weight: 43 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No.1 **BOT CHORD** 2x4 SP No.1 2x4 SP No.3 **OTHERS**

(lb/size) 1=224/11-7-11, 3=224/11-7-11, 4=412/11-7-11

Max Horz 1=-112(LC 5)

Max Uplift 1=-25(LC 7), 3=-34(LC 8)

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

WEBS 2-4=-253/106

NOTES-

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

- 2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) 0-5-4 to 4-10-1, Interior(1) 4-10-1 to 5-9-13, Exterior(2) 5-9-13 to 10-2-10 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.

4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.

O36.

NGINEEL

anuary 25,2018

Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

🛕 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job Truss Truss Type Qty Ply Lot 38 South Creek / Harnett County E11391747 J0918-4409 VH-2 Valley Job Reference (optional)
8.130 s Sep 15 2017 MiTek Industries, Inc. Wed Jan 24 14:14:46 2018 Page 1
ID:ZyxR5MYexMn1OulsRggYZvzvq71-XuKq5jNfPKFdpw_y6Zxs25qG1t6WURfFI_Ls1kzs717 Comtech, Inc., Fayetteville, NC 28309 4-11-3 4-11-3 4-11-3 Scale = 1:24.3 4x4 = 2 9.00 12 2x4 / 2x4 \ 2x4 || 9-10-5 9-10-5 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defl **PLATES** GRIP in (loc) 1/d Plate Grip DOL TCLL 20.0 TC 0.21 1.15 Vert(LL) 244/190 n/a n/a 999 MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.15 Vert(TL) n/a 999 n/a BCLL 0.0 * Rep Stress Incr YES WB 0.06 0.00 3 Horz(TL) n/a n/a BCDL 10.0 Code IRC2009/TPI2007 Matrix-S Weight: 36 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.1 **BOT CHORD** 2x4 SP No.1 2x4 SP No.3 **OTHERS**

BRACING-

TOP CHORD **BOT CHORD**

Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

(lb/size) 1=187/9-10-5, 3=187/9-10-5, 4=344/9-10-5 REACTIONS.

Max Horz 1=-94(LC 5)

Max Uplift 1=-21(LC 7), 3=-29(LC 8)

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

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Gable requires continuous bottom chord bearing.

- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.

O3L

NGINEE

Nuary 25,2018

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ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job Truss Truss Type Qty Ply Lot 38 South Creek / Harnett County E11391748 J0918-4409 VH-3 Valley Job Reference (optional)

8.130 s Sep 15 2017 MiTek Industries, Inc. Wed Jan 24 14:14:47 2018 Page 1
ID:ZyxR5MYexMn1OulsRggYZvzvq71-?4uDJ2OHAeNUR4Z8fGT5bJNSCHTaDuEO_e4QZAzs716
8-1-0 Comtech, Inc., Fayetteville, NC 28309 4-0-8 4-0-8 4x4 = Scale = 1:20 4 9.00 12 2x4 // 2x4 \ 2x4 || 8-1-0 8-1-0 LOADING (psf) SPACING-2-0-0 CSI. DEFL. in (loc) I/defl L/d PLATES GRIP TCLL 20.0 Plate Grip DOL TC 0.18 1.15 Vert(LL) n/a n/a 999 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 BC 0.10 Vert(TL) n/a n/a 999 0.0 * BCLL Rep Stress Incr WB 0.04 YES Horz(TL) 0.00 3 n/a n/a BCDL Code IRC2009/TPI2007 10.0 Matrix-P Weight: 29 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No.1 **BOT CHORD** 2x4 SP No.1 **OTHERS** 2x4 SP No.3

(lb/size) 1=163/8-1-0, 3=163/8-1-0, 4=250/8-1-0

Max Horz 1=-75(LC 5)

Max Uplift 1=-24(LC 7), 3=-30(LC 8)

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

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

2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Gable requires continuous bottom chord bearing.

- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.

SEAL 036322

SEAL 036322

January 25,2018

Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent ocliapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job Truss Truss Type Qty Plv Lot 38 South Creek / Harnett County E11391749 J0918-4409 VH-4 Valley Job Reference (optional) Comtech, Inc., Fayetteville, NC 28309 8.130 s Sep 15 2017 MiTek Industries, Inc. Wed Jan 24 14:14:47 2018 Page 1 ID:ZyxR5MYexMn1OulsRggYZvzvq71-?4uDJ2OHAeNUR4Z8fGT5bJNTWHUDDuQO_e4QZAzs716 3-1-13 3-1-13 Scale = 1:16.7 4x4 = 2 9.00 12 3 2x4 // 2x4 \ 6-3-11 6-3-11 LOADING (psf) SPACING-2-0-0 CSI. DEFL in (loc) I/defl L/d **PLATES** GRIP TCLL 20.0 Plate Grip DOL TC 0.10 1.15 Vert(LL) n/a n/a 999 MT20 244/190 TCDL 10.0 BC Lumber DOL 1.15 0.06 Vert(TL) n/a n/a 999 0.0 * BCLL Rep Stress Incr WB 0.03 YES Horz(TL) 0.00 3 n/a n/a BCDL Code IRC2009/TPI2007 10.0 Matrix-P Weight: 22 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.1 **BOT CHORD** 2x4 SP No.1 **OTHERS** 2x4 SP No.3

REACTIONS. (lb/size) 1=123/6-3-11, 3=123/6-3-11, 4=188/6-3-11

Max Horz 1=57(LC 6)

Max Uplift 1=-18(LC 7), 3=-23(LC 8)

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

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

2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Gable requires continuous bottom chord bearing.

- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.

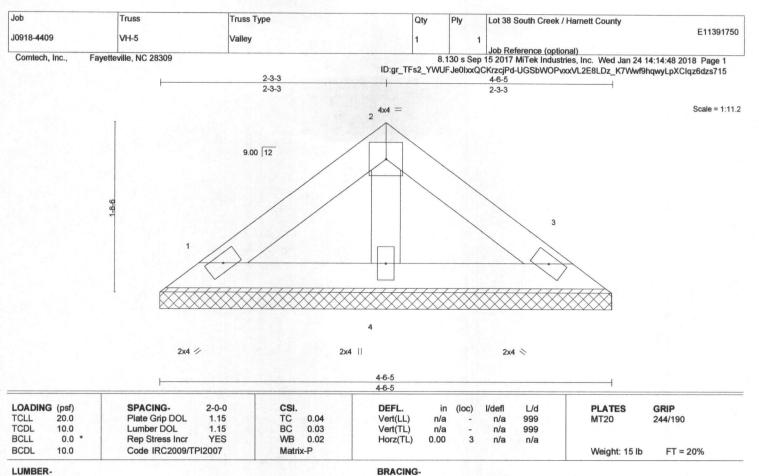
JORTH Nuary 25,2018

Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.





TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No.1 **BOT CHORD** 2x4 SP No.1 2x4 SP No.3 **OTHERS**

(lb/size) 1=83/4-6-5, 3=83/4-6-5, 4=127/4-6-5

Max Horz 1=38(LC 6)

Max Uplift 1=-12(LC 7), 3=-15(LC 8)

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

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Gable requires continuous bottom chord bearing.

- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.

SEAL 036322 January 25,2018

Structural wood sheathing directly applied or 4-6-5 oc purlins.

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

🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only with MT-eke connectors. This design is based only upon parameters shown, and is for on individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job Truss Truss Type Qty Ply Lot 38 South Creek / Harnett County E11391751 J0918-4409 VH-6 Valley Job Reference (optional) Comtech, Inc., Fayetteville, NC 28309 8.130 s Sep 15 2017 MiTek Industries, Inc. Wed Jan 24 14:14:48 2018 Page 1 ID:gr_TFs2_YWUFJe0lxxQCKrzcjPd-UGSbWOPvxxVL2E8LDz_K7WwfdhqtyL3XClqz6dzs715 1-4-8 1-4-8 3x4 = Scale = 1.7.9 9.00 12 2x4 / 2x4 > 2-9-0 2-9-0 Plate Offsets (X,Y)-[2:0-2-0,Edge] LOADING (psf) SPACING-2-0-0 CSI. DEFL. L/d **PLATES** GRIP in (loc) I/defl 20.0 Plate Grip DOL TCLL TC 1.15 0.01 Vert(LL) 999 244/190 n/a n/a MT20 Lumber DOL BC TCDL 10.0 1.15 0.03 Vert(TL) n/a n/a 999 BCLL 0.0 * Rep Stress Incr YES WB 0.00 Horz(TL) 0.00 3 n/a n/a Code IRC2009/TPI2007 BCDL 10.0 Matrix-P Weight: 8 lb FT = 20% LUMBER-**BRACING-**TOP CHORD 2x4 SP No.1 TOP CHORD Structural wood sheathing directly applied or 2-9-0 oc purlins. **BOT CHORD** 2x4 SP No.1 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing. REACTIONS. (lb/size) 1=75/2-9-0, 3=75/2-9-0

Max Horz 1=-20(LC 5)

Max Uplift 1=-3(LC 7), 3=-3(LC 8)

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

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Gable requires continuous bottom chord bearing.

- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.

ORTH nuary 25,2018

🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



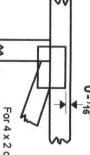
Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated.

Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- ¹/18¹¹ from outside edge of truss.

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CT

This sy

This symbol indicates the required direction of slots in connector plates.

* Plate location details available in MiTek 20/20 software or upon request.

PLATE SIZE



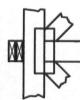
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING



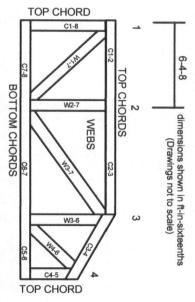
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only

Industry Standards: ANSI/TPI1: National E

National Design Specification for Metal Plate Connected Wood Truss Construction Design Standard for Bracing.
Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate

DSB-89

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988 ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

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MiTek Engineering Reference Sheet: MII-7473 rev. 10/03/2015

stem

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- . Cut members to bear tightly against each other
- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber
- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- . Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- Connections not shown are the responsibility of others.
- Do not cut or after truss member or plate without prior approval of an engineer.
- 17. Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.

