

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: 20137
140.1582 A 10x10 CP

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by 84 Components - #2383.

Pages or sheets covered by this seal: I36366999 thru I36367038

My license renewal date for the state of North Carolina is December 31, 2019.

North Carolina COA: C-0844



March 12, 2019

Johnson, Andrew

IMPORTANT NOTE: Truss Engineer's responsibility is solely for design of individual trusses based upon design parameters shown on referenced truss drawings. Parameters have not been verified as appropriate for any use. Any location identification specified is for file reference only and has not been used in preparing design. Suitability of truss designs for any particular building is the responsibility of the building designer, not the Truss Engineer, per ANSI/TPI-1, Chapter 2.

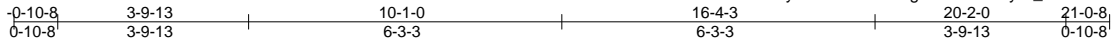
Job 20137	Truss B1	Truss Type COMMON	Qty 1	Ply 1	140.1582 A 10x10 CP	136366999
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84 Components (Dunn),

Dunn, NC - 28334,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Mar 11 14:06:56 2019 Page 1

ID:RUSz4LGuFS2C1bODNZWBaZyX6cZ-F6Gc?fWg9UmHGcPZYHI_dzAnf7YZUM_2gMDhGlzc_Qj



Scale = 1:46.1

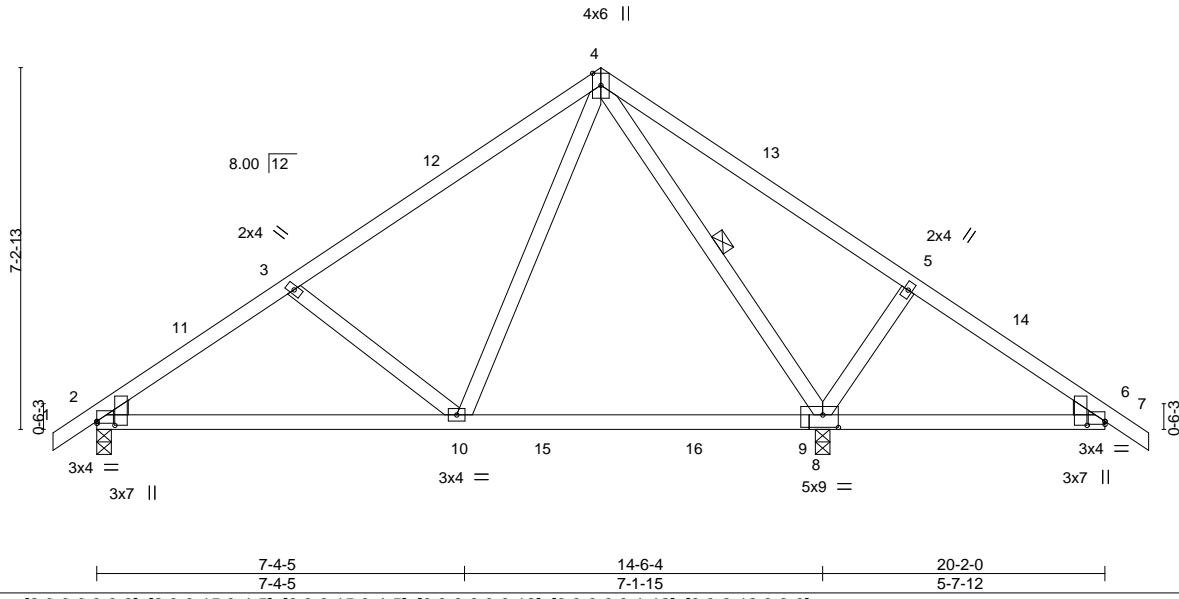


Plate Offsets (X,Y)--	[2:0-0,0,0-0-8], [2:0-0-15,0-4-5], [6:0-0-15,0-4-5], [6:0-0-0,0-0-12], [9:0-0-0,0-1-12], [9:0-3-12,0-3-0]
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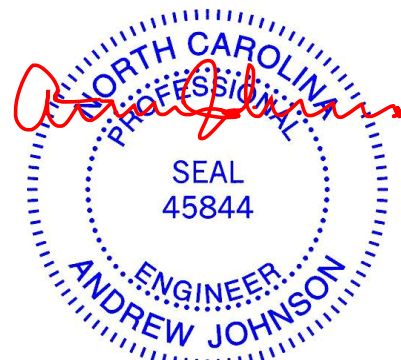
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.54	Vert(LL)	0.11	2-10	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.46	Vert(CT)	-0.14	8-10	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.43	Horz(CT)	0.01	8	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S							
									Weight: 104 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 4-8
WEDGE	
Left: 2x4 SP No.3, Right: 2x4 SP No.3	

REACTIONS. (lb/size) 2=528/0-3-8, 8=1188/0-3-8
 Max Horz 2=181(LC 11)
 Max Uplift 2=-89(LC 12), 8=-145(LC 13)
 Max Grav 2=559(LC 23), 8=1188(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-653/367, 3-4=-451/362, 4-5=-224/575, 5-6=-253/377
 BOT CHORD 2-10=-240/611, 6-8=-229/253
 WEBS 4-10=-405/436, 4-8=-933/519, 5-8=-335/223, 3-10=-316/221

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 10-1-0, Exterior(2) 10-1-0 to 13-1-0, Interior(1) 13-1-0 to 21-0-8 zone; cantilever right exposed ; porch right exposed; 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 5) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 8. This connection is for uplift only and does not consider lateral forces.



March 12, 2019

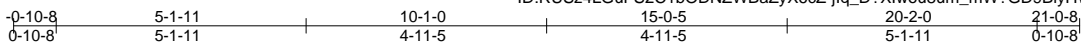
Job 20137	Truss BE	Truss Type COMMON STRUCTURAL GA	Qty 1	Ply 1	140.1582 A 10x10 CP	136367000
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84 Components (Dunn),

Dunn, NC - 28334,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Mar 11 14:06:57 2019 Page 1

ID:RUSz4LGuFS2C1bODNZWBaZyX6cZ-jlq_D?Xlwou8um_mW?GD9BiyHWxoDipCv0zEoCzc_Qi



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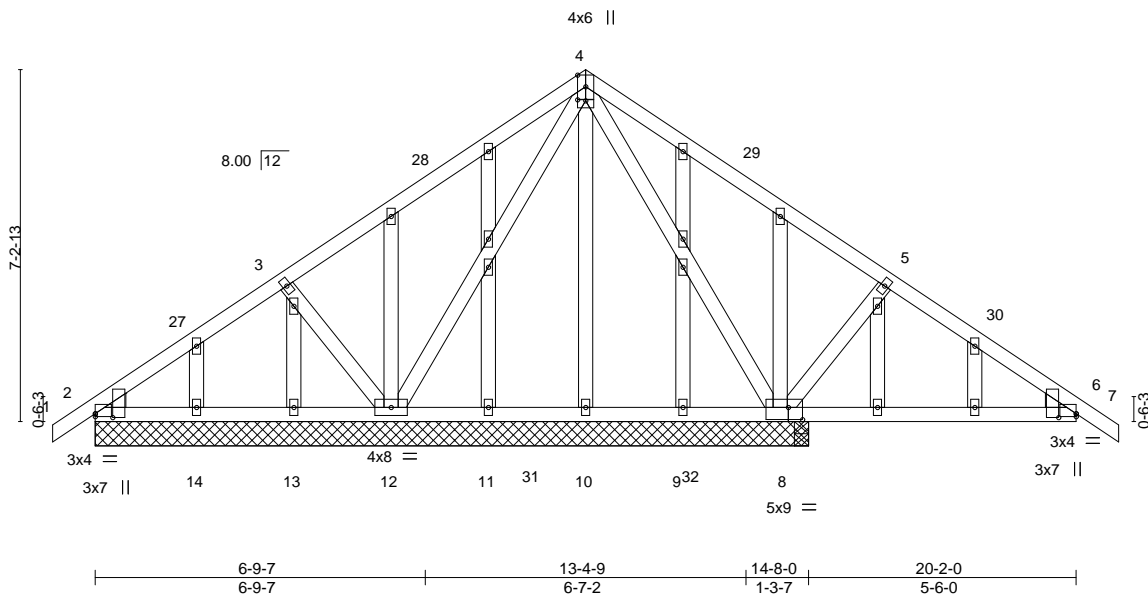


Plate Offsets (X,Y)--	[2:0-0-15,0-4-5], [2:0-0-0,0-0-12], [4:0-2-0,0-0-4], [6:0-0-0,0-0-12], [6:0-0-15,0-4-5], [8:0-1-12,0-0-0], [8:0-3-8,0-3-0]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.55	Vert(LL)	-0.01	8-9	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.27	Vert(CT)	0.01	8-9	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.84	Horz(CT)	0.00	8	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 151 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3
 OTHERS 2x4 SP No.3
 WEDGE

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

BRACING-

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

REACTIONS.

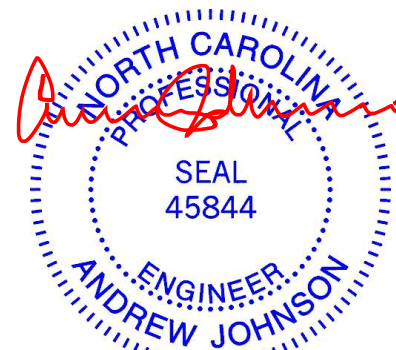
All bearings 14-8-0.
 (lb) - Max Horz 2=181(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 9 except 8=-172(LC 13), 12=-190(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 2, 10, 11, 13, 14, 9 except 8=966(LC 1), 8=966(LC 1), 12=438(LC 19)

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

TOP CHORD 3-4=-59/285, 4-5=-255/607, 5-6=-272/386
 BOT CHORD 6-8=-236/267
 WEBS 4-8=-687/324, 5-8=-340/222, 3-12=-330/225

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 10-1-0, Exterior(2) 10-1-0 to 13-1-0, Interior(1) 13-1-0 to 21-0-8 zone; cantilever right exposed; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 9 except (jt=lb) 8=172, 12=190.



March 12, 2019

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.



818 Soundside Road
 Edenton, NC 27932

Job 20137	Truss BG	Truss Type COMMON GIRDER	Qty 1	Ply 2	140.1582 A 10x10 CP	136367001
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84 Components (Dunn),

Dunn, NC - 28334,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Mar 11 14:06:59 2019 Page 1

ID:RUSz4LGuFS2C1bODNZWBaZyX6cZ-ghykehYYSp8s7388dQlhEcoMckSvnhgVnkSLt4zc_Qg



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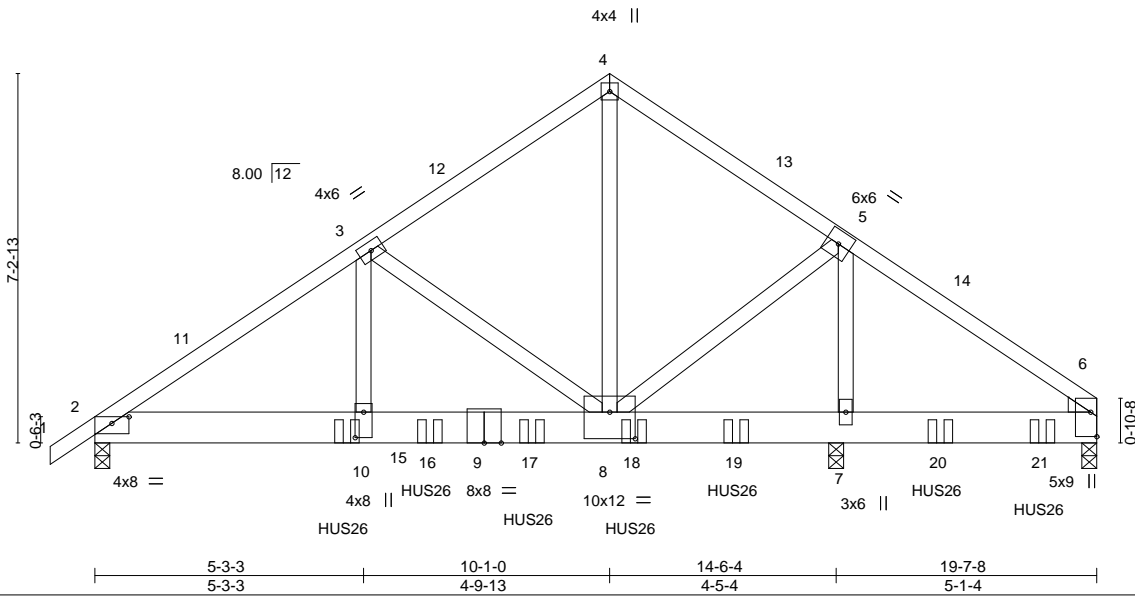


Plate Offsets (X,Y)--	[2:0-4-0,0-1-9], [6:Edge,0-1-7], [6:0-0-15,0-4-15], [6:0-0-8,0-0-12], [8:0-6-0,0-6-4], [10:0-6-0,0-2-0]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.30	Vert(LL)	-0.07	8-10	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 1.00	Vert(CT)	-0.14	8-10	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.95	Horz(CT)	0.02	7	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 267 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-10-13 oc purlins.
BOT CHORD 2x8 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3	
WEDGE	
Right: 2x4 SP No.3	

REACTIONS. (lb/size) 2=3654/0-3-8, 7=8136/0-3-8 (req. 0-4-13), 6=401/0-3-8
 Max Horz 2=176(LC 9)
 Max Uplift 2=-535(LC 12), 7=-992(LC 13), 6=-119(LC 8)
 Max Grav 2=3654(LC 1), 7=8136(LC 1), 6=507(LC 26)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-6187/865, 3-4=-3549/444, 4-5=-3554/452, 5-6=-161/973
 BOT CHORD 2-10=-743/5010, 8-10=-743/5010, 7-8=-729/175, 6-7=-729/175
 WEBS 3-10=-476/2817, 3-8=-2643/615, 4-8=-394/3602, 5-8=-506/4566, 5-7=-5619/708

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
 Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-5-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 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.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCdL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-10-8 to 2-1-8, Interior(1) 2-1-8 to 10-1-0, Exterior(2) 10-1-0 to 13-1-0, Interior(1) 13-1-0 to 19-5-12 zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- WARNING: Required bearing size at joint(s) 7 greater than input bearing size.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=992.
- One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 6. This connection is for uplift only and does not consider lateral forces.
- Use USP HUS26 (With 16d nails into Girder & 16d nails into Truss) or equivalent spaced at 4-0-0 oc max. starting at 4-11-4 from the left end to 18-6-12 to connect truss(es) to back face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

Continued on page 2



March 12, 2019

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.

TRENCO
ENGINEERING BY
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job 20137	Truss BG	Truss Type COMMON GIRDER	Qty 1	Ply 2	140.1582 A 10x10 CP Job Reference (optional)	I36367001
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84 Components (Dunn), Dunn, NC - 28334,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Mar 11 14:06:59 2019 Page 2
ID:RUSz4LGuFS2C1bODNZWBaZyX6cZ-ghykehYYP8s7388dQlhEcoMcKsvhbgVnKSLt4zc_Qg

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-60, 4-6=-60, 2-6=-20

Concentrated Loads (lb)

Vert: 15=-814(B) 16=-1960(B) 17=-1960(B) 18=-1960(B) 19=-1960(B) 20=-964(B) 21=-965(B)

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

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	140.1582 A 10x10 CP	136367002
20137	H2	HIP	1	1		

84 Components (Dunn), Dunn, NC - 28334,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Mar 11 14:07:05 2019 Page 1

ID:RUSz4LGuFS2C1bODNZWBaZyX6cZ-UrJ0ukdJ2Fv?r_bL_gP5Ut2LvJ5LCNIFvg4kzc_Qa



Scale = 1:88.0

	9-0-0	17-0-14	25-0-0	32-11-2	41-0-0	49-8-12
	9-0-0	8-0-14	7-11-2	7-11-2	8-0-14	8-8-12
Plate Offsets (X,Y)--	[5:0-4-0,0-4-8], [7:0-4-0,0-4-8], [17:0-3-4,0-0-0]					

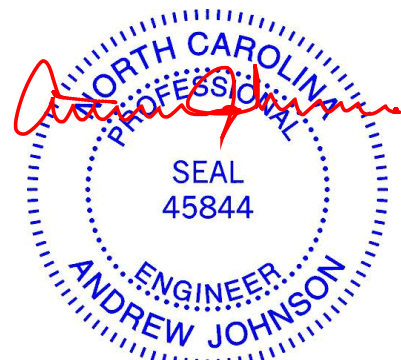
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.51	Vert(LL)	-0.45	14	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.97	Vert(CT)	-0.89	14	>665	180	MT18H	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.81	Horz(CT)	0.21	10	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 316 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* 1-4,8-10: 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-6-12 oc purlins, except
BOT CHORD 2x6 SP No.2 *Except* 12-15,15-17: 2x6 SP DSS	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 6-16, 6-13 2 Rows at 1/3 pts 5-18, 7-11

REACTIONS. (lb/size) 10=1980/Mechanical, 2=2043/0-3-8
Max Horz 2=89(LC 16)
Max Uplift 10=220(LC 8), 2=225(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3995/661, 3-4=-3777/578, 4-5=-3324/550, 5-6=-5277/837, 6-7=-5250/832,
7-8=-3275/539, 8-9=-3721/571, 9-10=-3893/644
BOT CHORD 2-18=-551/3510, 16-18=-792/5274, 14-16=-870/5853, 13-14=-870/5853, 11-13=-746/5247,
10-11=-522/3392
WEBS 4-18=-110/1288, 5-18=-2267/456, 5-16=0/539, 6-16=-716/138, 6-14=0/324,
6-13=-744/141, 7-13=0/551, 7-11=-2291/457, 8-11=-112/1264

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 4-1-3, Interior(1) 4-1-3 to 9-0-0, Exterior(2) 9-0-0 to 16-0-6, Interior(1) 16-0-6 to 41-0-0, Exterior(2) 41-0-0 to 48-0-6, Interior(1) 48-0-6 to 49-8-0 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) All plates are MT20 plates unless otherwise indicated.
 - 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) 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) except (jt=lb) 10=220.
 - 9) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
 - 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 12, 2019

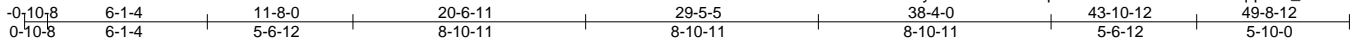
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. 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.</p>	<p>ENGINEERING BY</p> <p>TRENCO</p> <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job	Truss	Truss Type	Qty	Ply	140.1582 A 10x10 CP	136367003
20137	H3	HIP	1	1		

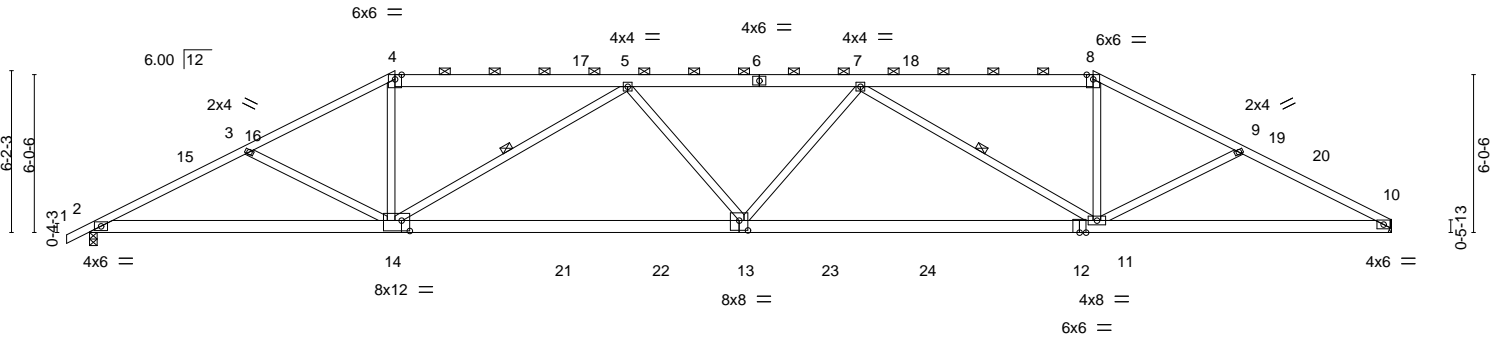
84 Components (Dunn), Dunn, NC - 28334,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Mar 11 14:07:06 2019 Page 1

ID:RUSz4LGuFS2C1bODNZWBaZyX6cZ-z1tO64expZ1sT8AUXOwK14aR19rqqnJW_veDdAzc_QZ



Scale = 1:88.0



6-1-4	11-8-0	25-0-0	38-4-0	43-10-12	49-8-12
6-1-4	5-6-12	13-4-0	13-4-0	5-6-12	5-10-0

Plate Offsets (X,Y)-- [13:0-4-0,0-4-8], [14:0-3-12,0-4-12]					
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.80	Vert(LL) -0.34 13-14 >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.98	Vert(CT) -0.70 11-13 >845 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.89	Horz(CT) 0.17 10 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 303 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 4-6,6-8: 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except 2-0-0 oc purlins (3-2-8 max.): 4-8.
BOT CHORD 2x6 SP No.2 *Except* 12-13,13-14: 2x6 SP DSS	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 5-14, 7-11

REACTIONS. (lb/size) 10=1980/Mechanical, 2=2043/0-3-8
Max Horz 2=111(LC 12)
Max Uplift 10=-172(LC 8), 2=-177(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3927/661, 3-4=-3580/555, 4-5=-3131/540, 5-7=-4411/673, 7-8=-3096/532,
8-9=-3542/546, 9-10=-3851/649
BOT CHORD 2-14=-544/3442, 13-14=-579/4310, 11-13=-548/4298, 10-11=-521/3355
WEBS 3-14=-325/244, 4-14=-72/1157, 5-14=-1495/376, 5-13=0/339, 7-13=0/354,
7-11=-1519/376, 8-11=-81/1140, 9-11=-269/247

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 4-1-3, Interior(1) 4-1-3 to 11-8-0, Exterior(2) 11-8-0 to 18-8-6, Interior(1) 18-8-6 to 38-4-0, Exterior(2) 38-4-0 to 45-4-6, Interior(1) 45-4-6 to 49-8-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=172.
- One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 12, 2019

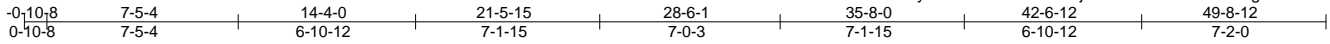
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. 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.</p>	<p>ENGINEERING BY</p> <p>TRENCO</p> <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job	Truss	Truss Type	Qty	Ply	140.1582 A 10x10 CP	136367004
20137	H4	HIP	1	1		

84 Components (Dunn), Dunn, NC - 28334,

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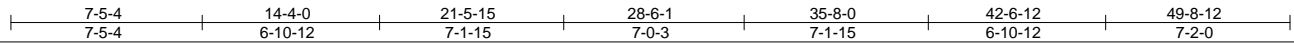
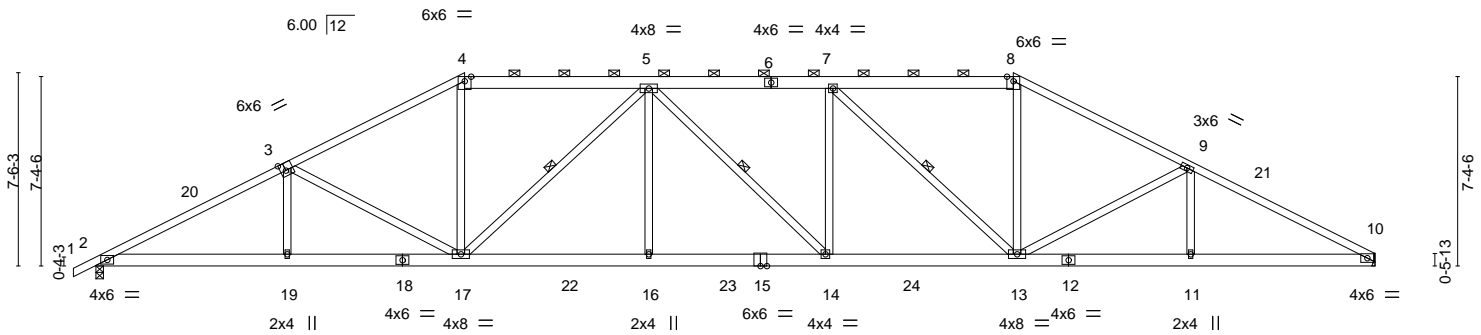


Plate Offsets (X,Y)--	[3:0-2-8,Edge]								
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15		TC 0.86	Vert(LL) -0.26	14-16	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15		BC 0.78	Vert(CT) -0.52	14-16	>999	180		
BCLL 0.0 *	Rep Stress Incr YES		WB 0.69	Horz(CT) 0.18	10	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 328 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* 3-4: 2x4 SP No.1, 8-10: 2x4 SP DSS, 1-3: 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (3-9-5 max.): 4-8.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 5-17, 5-14, 7-13

REACTIONS. (lb/size) 10=1980/Mechanical, 2=2043/0-3-8
Max Horz 2=133(LC 16)
Max Uplift 10=-142(LC 13), 2=-166(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3934/597, 3-4=-3318/564, 4-5=-2878/557, 5-7=-3517/627, 7-8=-2856/548,
8-9=-3293/556, 9-10=-3871/581
BOT CHORD 2-19=-477/3433, 17-19=-474/3438, 16-17=-387/3523, 14-16=-387/3523, 13-14=-387/3517,
11-13=-450/3363, 10-11=-450/3363
WEBS 3-19=0/294, 3-17=-618/222, 4-17=-88/1083, 5-17=-1066/221, 5-16=0/343, 7-14=0/320,
7-13=-1070/219, 8-13=-99/1072, 9-13=-564/223, 9-11=0/290

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 4-1-3, Interior(1) 4-1-3 to 14-4-0, Exterior(2) 14-4-0 to 21-5-15, Interior(1) 21-5-15 to 35-8-0, Exterior(2) 35-8-0 to 42-6-12, Interior(1) 42-6-12 to 49-8-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=142.
 - One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 12, 2019

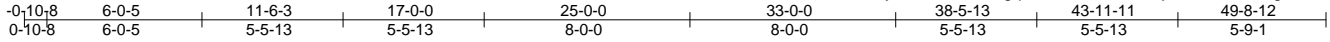
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. 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/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.</p>	<p>ENGINEERING BY TRENCO A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job	Truss	Truss Type	Qty	Ply	140.1582 A 10x10 CP	136367005
20137	H5	HIP	1	1		

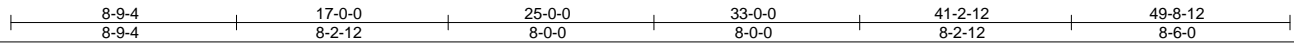
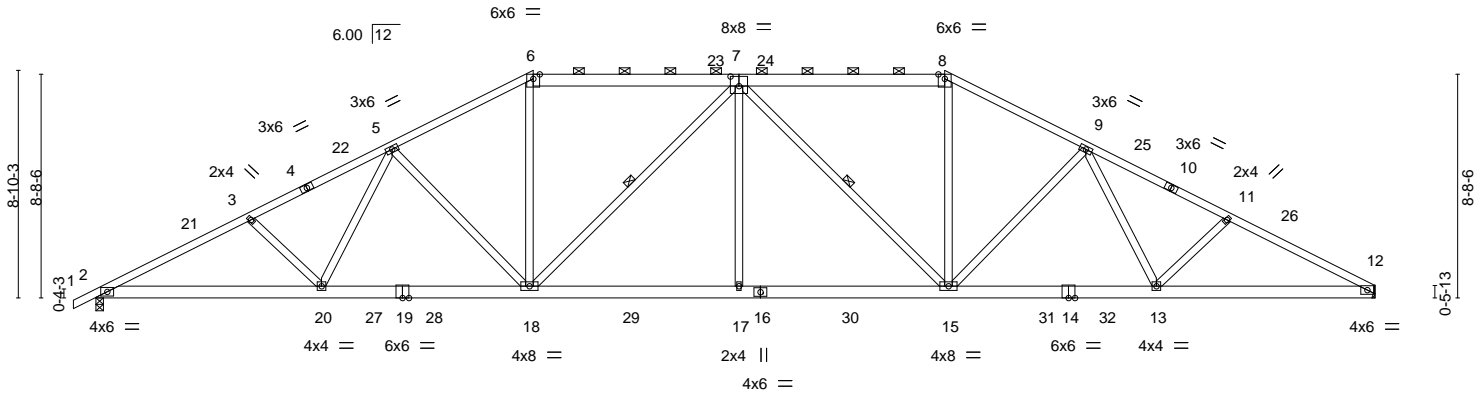
84 Components (Dunn), Dunn, NC - 28334,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Mar 11 14:07:09 2019 Page 1

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Scale = 1:89.6



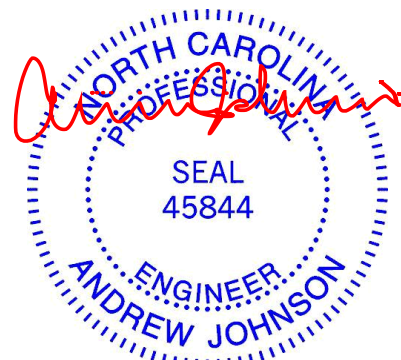
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.81	Vert(LL)	-0.26	17-18	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.79	Vert(CT)	-0.52	17-18	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.65	Horz(CT)	0.16	12	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 331 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 7-8,6-7: 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except 2-0-0 oc purlins (4-1-8 max.): 6-8.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 7-18, 7-15

REACTIONS. (lb/size) 2=2043/0-3-8, 12=1980/Mechanical
 Max Horz 2=155(LC 12)
 Max Uplift 2=-193(LC 12), 12=-169(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3949/581, 3-5=-3698/571, 5-6=-3062/556, 6-7=-2689/539, 7-8=-2676/533,
 8-9=-3047/549, 9-11=-3639/560, 11-12=-3873/579
 BOT CHORD 2-20=-471/3459, 18-20=-385/3049, 17-18=-303/3114, 15-17=-303/3114, 13-15=-366/3016,
 12-13=-448/3372
 WEBS 3-20=-313/194, 5-20=-39/480, 5-18=-560/219, 6-18=-92/1031, 7-18=-730/174,
 7-17=0/422, 7-15=-747/174, 8-15=-89/1025, 9-15=-532/217, 9-13=-38/444,
 11-13=-268/195

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 4-1-3, Interior(1) 4-1-3 to 17-0-0, Exterior(2) 17-0-0 to 24-0-6, Interior(1) 24-0-6 to 33-0-0, Exterior(2) 33-0-0 to 40-0-6, Interior(1) 40-0-6 to 49-8-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=169.
 - One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 12, 2019

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

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ENGINEERING BY
TRENCO
 A MiTek Affiliate

818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	140.1582 A 10x10 CP	136367006
20137	H6	HIP	1	1		

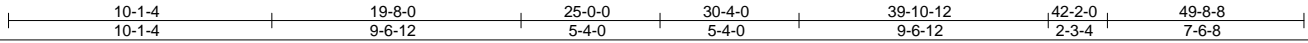
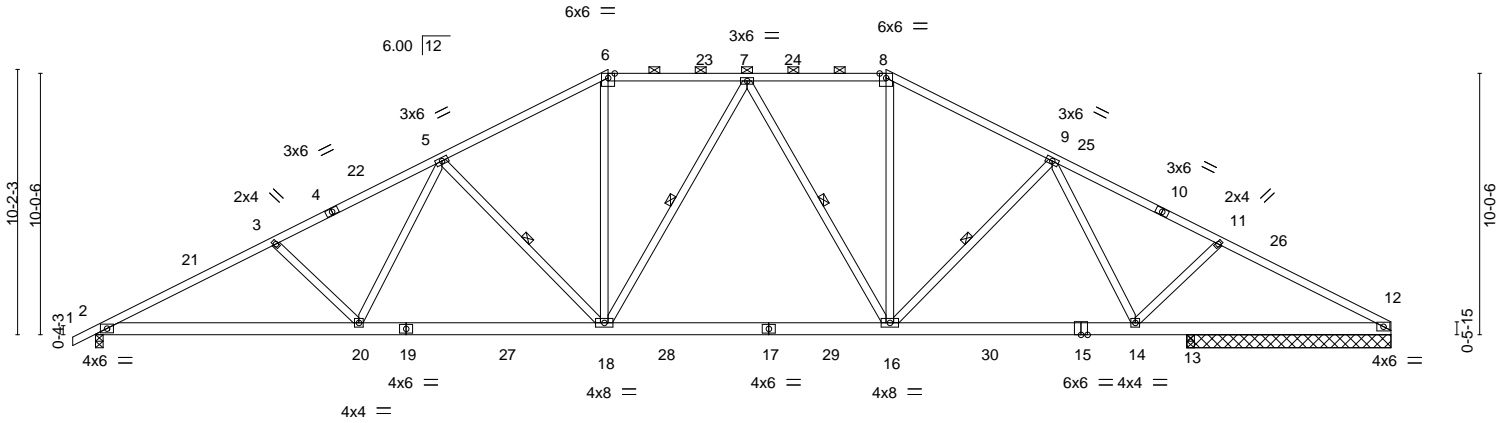
84 Components (Dunn), Dunn, NC - 28334,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Mar 11 14:07:10 2019 Page 1

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Scale = 1:88.4



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.71	Vert(LL)	-0.24 16-18	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.72	Vert(CT)	-0.46 14-16	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.60	Horz(CT)	0.10 12	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S					Weight: 318 lb	FT = 20%

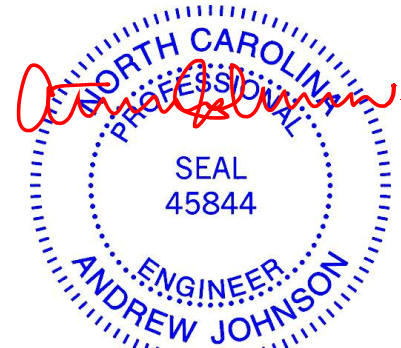
LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x6 SP DSS *Except*
 17-19: 2x6 SP No.2
 WEBS 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except 2-0-0 oc purlins (3-8-14 max.): 6-8.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 5-18, 7-18, 7-16, 9-16

REACTIONS. All bearings 0-3-8 except (jt=length) 12=7-10-0.
 (lb) - Max Horz 2=178(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 13 except 2=-217(LC 12), 12=-158(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) except 2=1885(LC 1), 12=1111(LC 1), 13=1030(LC 1), 13=1030(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3550/522, 3-5=-3287/512, 5-6=-2519/493, 6-7=-2182/487, 7-8=-2024/469,
 8-9=-2342/472, 9-11=-2029/390, 11-12=-2266/407
 BOT CHORD 2-20=-431/3094, 18-20=-312/2637, 16-18=-182/2197, 14-16=-236/1994, 13-14=-290/1946,
 12-13=-290/1946
 WEBS 3-20=-367/223, 5-20=-48/569, 5-18=-706/262, 6-18=-85/832, 7-18=-261/168,
 7-16=-531/155, 8-16=-77/754, 9-14=-585/118, 11-14=-347/228

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 4-1-3, Interior(1) 4-1-3 to 19-8-0, Exterior(2) 19-8-0 to 26-8-6, Interior(1) 26-8-6 to 30-4-0, Exterior(2) 30-4-0 to 37-4-6, Interior(1) 37-4-6 to 49-8-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=158.
 - One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 13. This connection is for uplift only and does not consider lateral forces.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 12, 2019

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

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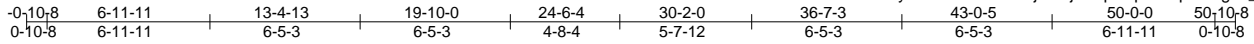
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	140.1582 A 10x10 CP	136367007
20137	H10	HIP	1	1		

84 Components (Dunn), Dunn, NC - 28334,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Mar 11 14:07:00 2019 Page 1

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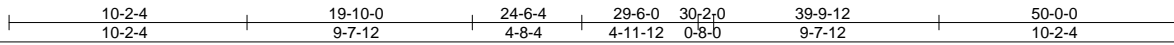
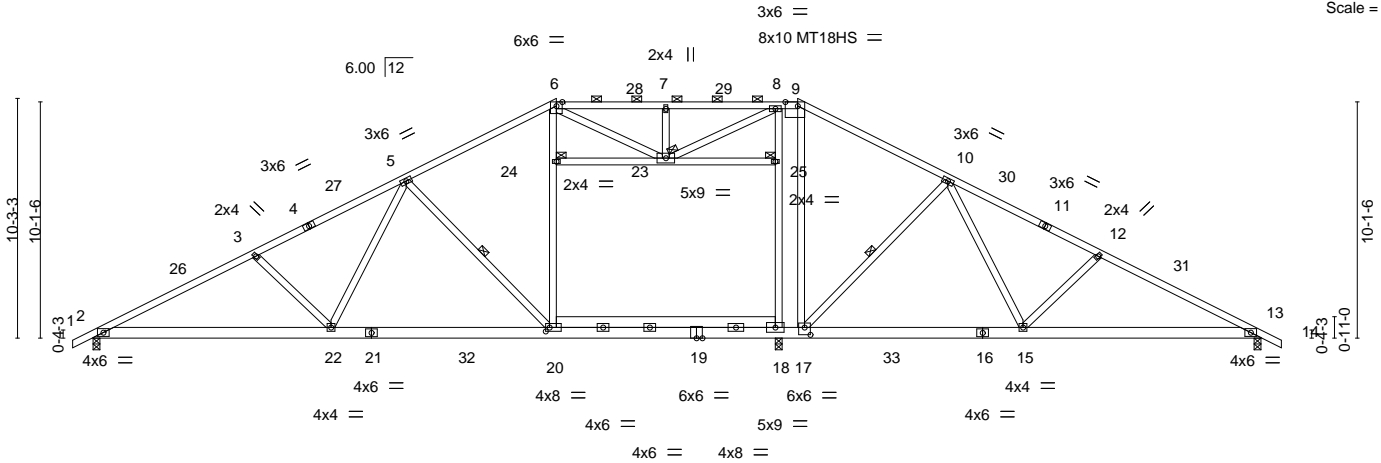


Plate Offsets (X,Y)-- [9:0-6-6,Edge], [17:0-3-0,0-3-12], [20:0-2-0,0-2-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.92	Vert(LL)	-0.61	20-22	>575	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.91	Vert(CT)	-1.10	20-22	>317	MT18HS	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.90	Horz(CT)	0.12	13	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Attic	-0.28	18-20	412		Weight: 358 lb FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x6 SP No.2 *Except*
 16-19,19-21: 2x6 SP DSS
 WEBS 2x4 SP No.3 *Except*
 6-20,9-17,8-18: 2x4 SP No.2

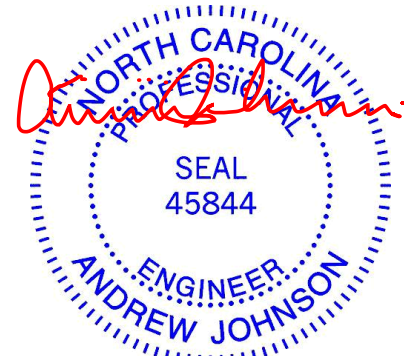
BRACING-
 TOP CHORD Structural wood sheathing directly applied, except
 2-0-0 oc purlins (3-1-2 max.): 6-9.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 5-20, 10-17
 JOINTS 1 Brace at Jt(s): 23, 24, 25

REACTIONS. (lb/size) 2=1865/0-3-8, 18=567/0-3-8, 13=1764/0-3-8
 Max Horz 2=172(LC 16)
 Max Uplift 2=-256(LC 12), 18=-224(LC 13), 13=-102(LC 12)
 Max Grav 2=2038(LC 26), 18=851(LC 25), 13=1889(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-4002/484, 3-5=-3760/473, 5-6=-2858/438, 6-7=-2808/527, 7-8=-2805/525,
 8-9=-2413/430, 9-10=-2735/449, 10-12=-3361/447, 12-13=-3611/466
 BOT CHORD 2-22=-504/3508, 20-22=-321/3005, 18-20=-130/2461, 17-18=-127/2428, 15-17=-179/2746,
 13-15=-297/3163
 WEBS 3-22=-365/224, 5-22=-60/684, 5-20=-805/273, 20-24=-63/869, 6-24=-53/889,
 7-23=-367/147, 9-17=-119/975, 10-17=-672/277, 10-15=-63/533, 12-15=-386/227,
 18-25=-403/135, 8-25=-381/145, 6-23=-116/369, 8-23=-127/556

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 4-1-8, Interior(1) 4-1-8 to 19-10-0, Exterior(2) 19-10-0 to 26-10-14, Interior(1) 26-10-14 to 30-2-0, Exterior(2) 30-2-0 to 37-2-14, Interior(1) 37-2-14 to 50-10-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Ceiling dead load (5.0 psf) on member(s). 23-24, 23-25
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 18-20
- One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 18, and 13. This connection is for uplift only and does not consider lateral forces.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.



March 12, 2019

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.



818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	140.1582 A 10x10 CP	136367008
20137	H11	HIP	1	1		

84 Components (Dunn), Dunn, NC - 28334,

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ID:RUSz4LGuFS2C1bODNZWBaZyX6cZ-c33V2Nap_1OZNNIXIqL9K1tbX8F49WynqexSzzc_Qe

0-10-8	5-11-11	11-4-13	16-10-0	23-0-4	33-2-0	38-7-3	44-0-5	50-0-0	50-10-8
0-10-8	5-11-11	5-5-3	5-5-3	6-2-4	10-1-12	5-5-3	5-5-3	5-11-11	0-10-8

Scale = 1:89.9

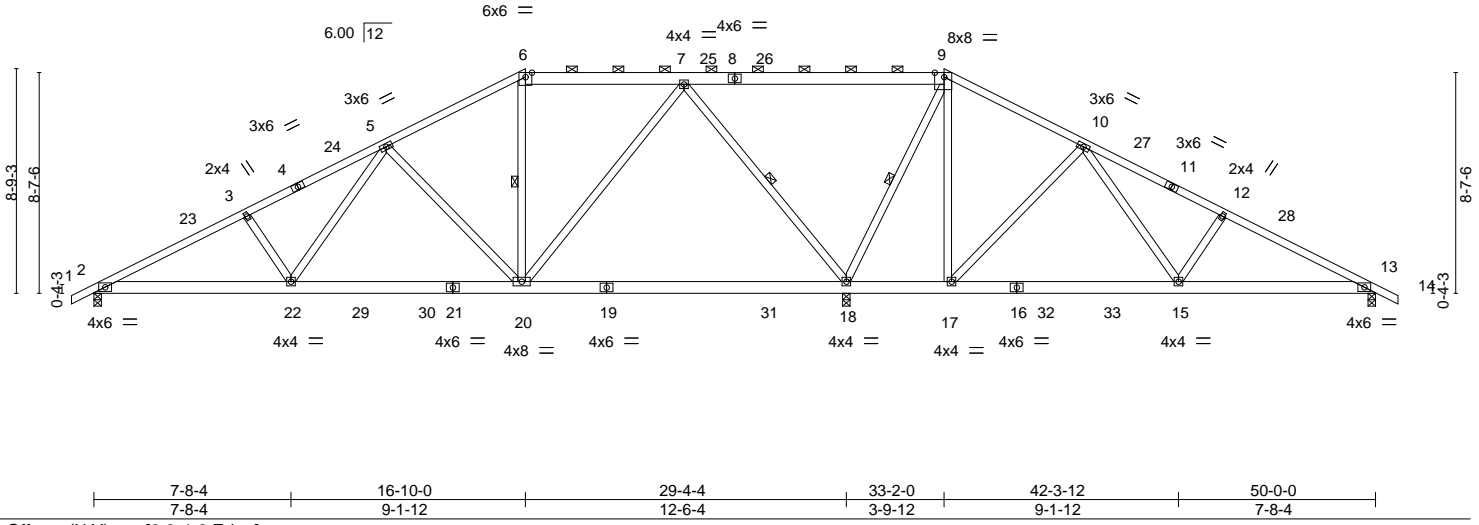


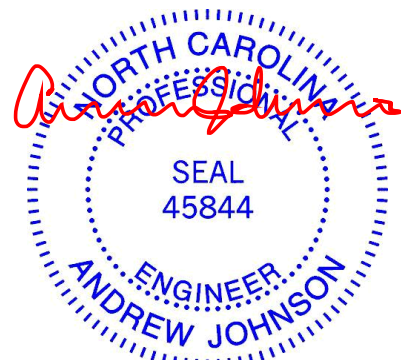
Plate Offsets (X,Y)--	[9:0-4-6,Edge]						
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d
TCLL 20.0	Plate Grip DOL 1.15		TC 0.73	Vert(LL) -0.21	18-20	>999	240
TCDL 10.0	Lumber DOL 1.15		BC 0.57	Vert(CT) -0.35	18-20	>988	180
BCLL 0.0 *	Rep Stress Incr YES		WB 0.90	Horz(CT) 0.02	18	n/a	n/a
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S				
							PLATES
							MT20
							GRIP
							244/190
							Weight: 331 lb
							FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 6-8,8-9: 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-1-7 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 6-9.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 6-20, 7-18, 9-18

REACTIONS.	(lb/size) 2=945/0-3-8, 18=2679/0-3-8, 13=475/0-3-8
	Max Horz 2=146(LC 12)
	Max Uplift 2=-153(LC 12), 18=-101(LC 9), 13=-142(LC 13)
	Max Grav 2=1000(LC 23), 18=2679(LC 1), 13=558(LC 24)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-1673/243, 3-5=-1490/257, 5-6=-730/205, 6-7=-599/223, 7-9=-29/1039, 9-10=-16/608, 10-12=-535/227, 12-13=-719/214
BOT CHORD	2-22=-278/1427, 20-22=-137/986, 17-18=-494/238, 15-17=-268/142, 13-15=-106/576
WEBS	3-22=-304/184, 5-22=-81/516, 5-20=-588/236, 7-20=-74/907, 7-18=-1611/352, 9-18=-1295/270, 9-17=-109/501, 10-17=-610/223, 10-15=-63/584, 12-15=-316/186

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 4-1-8, Interior(1) 4-1-8 to 16-10-0, Exterior(2) 16-10-0 to 23-10-14, Interior(1) 23-10-14 to 33-2-0, Exterior(2) 33-2-0 to 40-2-14, Interior(1) 40-2-14 to 50-10-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 18, and 13. This connection is for uplift only and does not consider lateral forces.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 12, 2019

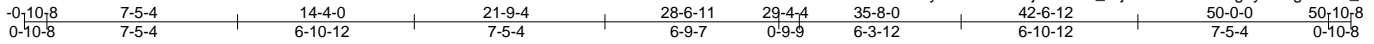
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. 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.</p>	<p>ENGINEERING BY</p> <p>TRENCO</p> <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job	Truss	Truss Type	Qty	Ply	140.1582 A 10x10 CP	136367009
20137	H12	HIP	1	1		

84 Components (Dunn), Dunn, NC - 28334,

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ID:RUSz4LGuFS2C1bODNZWBaZyX6cZ-4GdtGjbRIKXQ_XtjlYsOsEQlbXWguy6x3lg?TPzc_Qd



Scale = 1:89.9

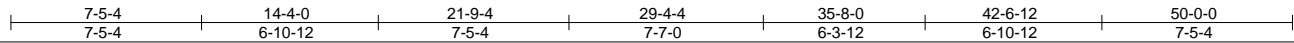
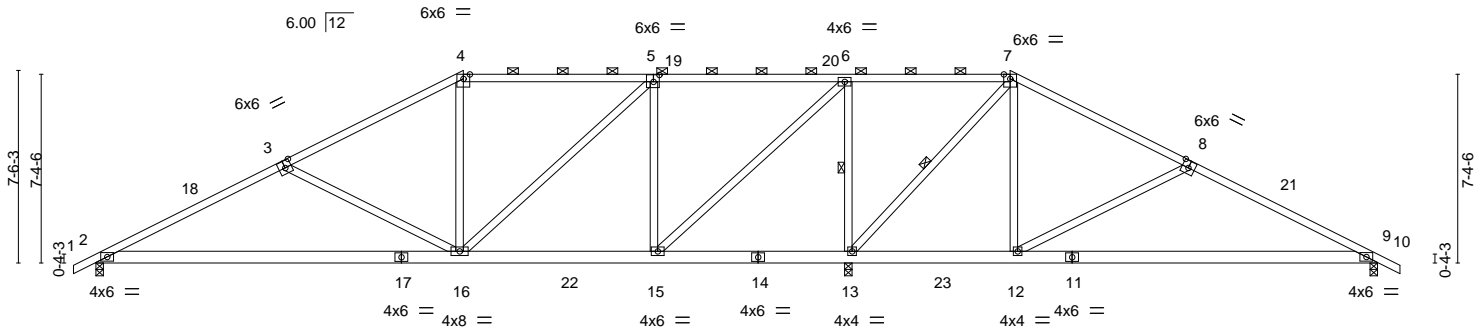


Plate Offsets (X,Y)--	[3:0-3-0,0-3-4], [5:0-2-12,0-3-4], [8:0-3-0,0-3-4]
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LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.77	Vert(LL) -0.31 2-16 >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.87	Vert(CT) -0.66 2-16 >527 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.90	Horz(CT) 0.02 9 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 304 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-6-1 oc purlins, except 2-0-0 oc purlins (4-10-7 max.): 4-7.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 6-13, 7-13

REACTIONS. (lb/size) 2=1023/0-3-8, 13=2488/0-3-8, 9=587/0-3-8
 Max Horz 2=126(LC 12)
 Max Uplift 2=-140(LC 12), 13=-206(LC 9), 9=-134(LC 13)
 Max Grav 2=1058(LC 23), 13=2488(LC 1), 9=640(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1644/327, 3-4=-1145/200, 4-5=-935/232, 5-6=-449/160, 6-7=-16/815, 8-9=-719/246
 BOT CHORD 2-16=-255/1395, 15-16=-69/463, 13-15=-814/283, 9-12=-119/571
 WEBS 3-16=-522/307, 5-16=-96/706, 5-15=-969/232, 6-15=-233/1573, 6-13=-1495/341, 7-13=-1182/167, 7-12=0/631, 8-12=-544/307

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-10-8 to 4-1-8, Interior(1) 4-1-8 to 14-4-0, Exterior(2) 14-4-0 to 21-4-14, Interior(1) 21-4-14 to 35-8-0, Exterior(2) 35-8-0 to 42-8-3, Interior(1) 42-8-3 to 50-10-8 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 6) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 13, and 9. This connection is for uplift only and does not consider lateral forces.
 - 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 12, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.
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Job	Truss	Truss Type	Qty	Ply	140.1582 A 10x10 CP	136367011
20137	H14	HIP	1	1		

84 Components (Dunn), Dunn, NC - 28334,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Mar 11 14:07:04 2019 Page 1

ID:RUSz4LGuFS2C1bODNZWBaZyX6cZ-0eldhPchHyn8Eq06Qzuxfv4HLG1MrXEwc96Ylzc_Qb

4-9-4 9-0-0 19-8-0 29-4-4 30-4-0 41-0-0 45-2-12 50-0-0 50-10-8
 4-9-4 4-2-12 10-8-0 9-8-4 0-11-12 10-8-0 4-2-12 4-9-4 0-10-8

Scale = 1:87.5

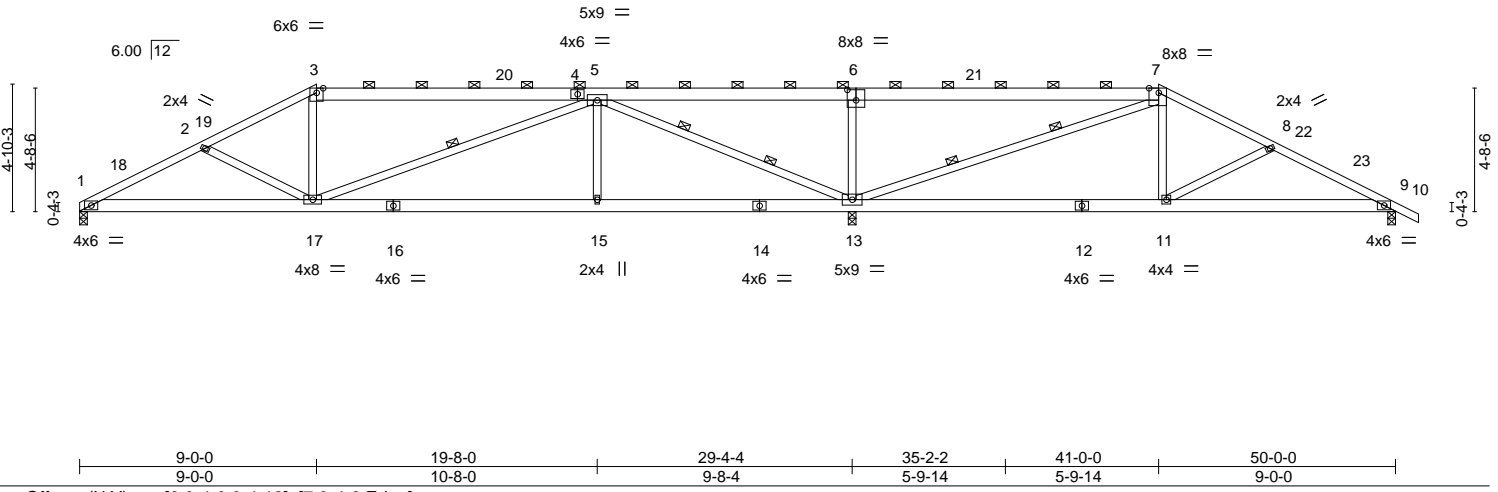


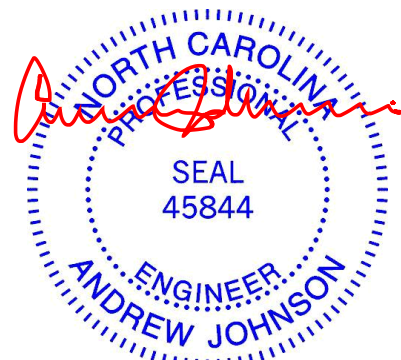
Plate Offsets (X,Y)--	[6:0-4-0,0-4-12], [7:0-4-6,Edge]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.89	Vert(LL) -0.10 15-17 >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.55	Vert(CT) -0.24 15-17 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.97	Horz(CT) 0.06 9 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 310 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* 1-3,7-10: 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-10-4 oc purlins, except 2-0-0 oc purlins (3-7-0 max.): 3-7.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 5-17 2 Rows at 1/3 pts 5-13, 7-13

REACTIONS. (lb/size) 1=1034/0-3-8, 13=2314/0-3-8, 9=691/0-3-8
 Max Horz 1=-89(LC 17)
 Max Uplift 1=-87(LC 12), 13=-342(LC 9), 9=-116(LC 13)
 Max Grav 1=1039(LC 23), 13=2314(LC 1), 9=705(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-1945/367, 2-3=-1688/277, 3-5=-1474/285, 5-6=-69/697, 6-7=-57/676,
 7-8=-786/145, 8-9=-1056/234
 BOT CHORD 1-17=-266/1686, 15-17=-199/1341, 13-15=-199/1341, 11-13=0/655, 9-11=-148/891
 WEBS 3-17=0/413, 5-15=0/384, 5-13=-2199/355, 6-13=-709/312, 7-13=-1387/211, 7-11=0/488,
 8-11=-256/189

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-1-12 to 5-1-12, Interior(1) 5-1-12 to 9-0-0, Exterior(2) 9-0-0 to 16-0-14, Interior(1) 16-0-14 to 41-0-0, Exterior(2) 41-0-0 to 48-0-14, Interior(1) 48-0-14 to 50-10-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1, 13, and 9. This connection is for uplift only and does not consider lateral forces.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

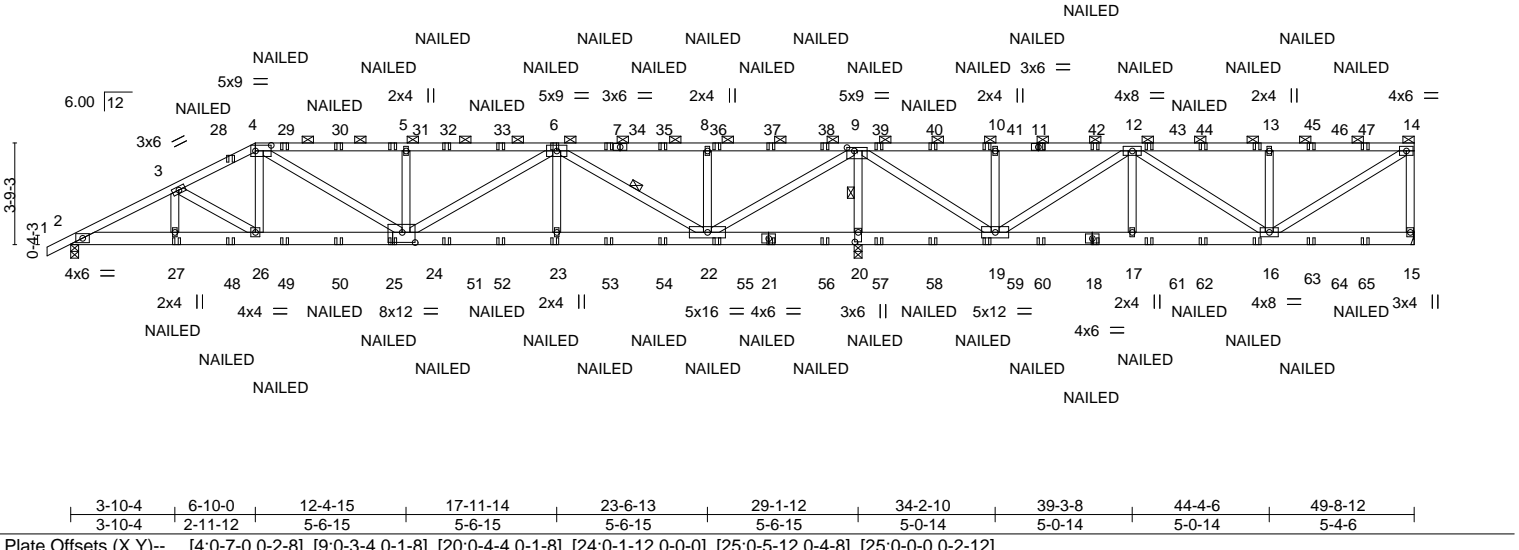


March 12, 2019

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</p> <p>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.</p>	<p>ENGINEERING BY</p> <p>TRENCO</p> <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job	Truss	Truss Type	Qty	Ply	140.1582 A 10x10 CP	136367012
20137	HG1	HALF HIP GIRDER	1	1		

84 Components (Dunn), Dunn, NC - 28334, 8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Mar 11 14:07:13 2019 Page 1
 ID:RUSz4LGuFS2C1bODNZWBaZyX6cZ-FNo1aUJK9jvspDCqSMYzpZNB6zLtzwgYbVr5MGzc_QS
 -0-10-8 3-10-4 6-10-0 12-4-15 17-11-14 23-6-13 29-1-12 34-2-10 39-3-8 44-4-6 49-8-12
 0-10-8 3-10-4 2-11-12 5-6-15 5-6-15 5-6-15 5-6-15 5-0-14 5-0-14 5-0-14 5-4-6
 Scale = 1:85.3



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.94	Vert(LL) 0.18 23-24 >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.57	Vert(CT) -0.30 23-24 >999 180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.91	Horz(CT) 0.04 20 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 310 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.3 *Except*
 6-24,6-22,9-22,9-19,12-19,12-16: 2x4 SP No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 3-4-6 oc purlins, except end verticals, and 2-0-0 oc purlins (2-5-1 max.): 4-14.
 BOT CHORD Rigid ceiling directly applied or 4-3-1 oc bracing.
 WEBS 1 Row at midpt 6-22, 9-20

REACTIONS. (lb/size) 15=834/Mechanical, 2=1453/0-3-8, 20=3986/0-3-8 (req. 0-4-11)
 Max Horz 2=147(LC 12)
 Max Uplift 15=305(LC 8), 2=335(LC 12), 20=1398(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2719/731, 3-4=-2482/743, 4-5=-2774/931, 5-6=-2773/931, 6-8=-308/125, 8-9=-308/125, 9-10=-166/541, 10-12=-166/541, 12-13=-893/341, 13-14=-893/341, 14-15=-755/336
 BOT CHORD 2-27=-746/2377, 26-27=-746/2377, 24-26=-700/2200, 23-24=-742/2156, 22-23=-742/2156, 20-22=-2609/878, 19-20=-2609/878, 17-19=-288/679, 16-17=-288/679
 WEBS 4-26=0/454, 4-24=-341/685, 5-24=-570/400, 6-24=-233/722, 6-23=0/389, 6-22=-2162/723, 8-22=-534/375, 9-22=-1172/3413, 9-20=-3691/1460, 9-19=-876/2486, 10-19=-474/333, 12-19=-1467/513, 12-17=0/343, 12-16=-83/258, 13-16=-536/374, 14-16=-387/1024

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 3-10-4, Interior(1) 3-10-4 to 6-10-0, Exterior(2) 6-10-0 to 13-10-6, Interior(1) 13-10-6 to 49-7-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Provide adequate drainage to prevent water ponding.
 - 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) WARNING: Required bearing size at joint(s) 20 greater than input bearing size.
 - 6) 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) 15=305, 20=1398.
 - 8) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
 - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 10) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

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.
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TRENCO
 ENGINEERING BY
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	140.1582 A 10x10 CP	I36367012
20137	HG1	HALF HIP GIRDER	1	1		
					Job Reference (optional)	

84 Components (Dunn), Dunn, NC - 28334,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Mar 11 14:07:13 2019 Page 2
 ID:RUSz4LGuFS2C1bODNZWBaZyX6cZ-FNo1aUjK9jvspDCqSMYzpZNB6zLtzwgYbVr5MGzc_QS

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-60, 4-14=-60, 2-15=-20

Concentrated Loads (lb)

Vert: 25=-27(F) 27=-57(F) 6=-73(F) 23=-27(F) 11=-73(F) 18=-27(F) 21=-27(F) 28=-63(F) 29=-73(F) 30=-73(F) 31=-73(F) 32=-73(F) 33=-73(F) 34=-73(F) 35=-73(F)
 36=-73(F) 37=-73(F) 38=-73(F) 39=-73(F) 40=-73(F) 41=-73(F) 42=-73(F) 43=-73(F) 44=-73(F) 45=-73(F) 46=-73(F) 47=-73(F) 48=-37(F) 49=-27(F) 50=-27(F)
 51=-27(F) 52=-27(F) 53=-27(F) 54=-27(F) 55=-27(F) 56=-27(F) 57=-27(F) 58=-27(F) 59=-27(F) 60=-27(F) 61=-27(F) 62=-27(F) 63=-27(F) 64=-27(F) 65=-27(F)

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

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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	140.1582 A 10x10 CP	I36367013
20137	HG15	HIP GIRDER	1	1		
						Job Reference (optional)

84 Components (Dunn), Dunn, NC - 28334,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Mar 11 14:07:16 2019 Page 2
 ID:RUSz4LGuFS2C1bODNZWBaZyX6cZ-gyTACVmDSeHRgxp7U6gQB?7iBMYAHB?HT3lzbzc_QP

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-60, 3-12=-60, 12-15=-60, 1-14=-20

Concentrated Loads (lb)

Vert: 26=-27(B) 29=-27(B) 5=-73(B) 25=-27(B) 24=-27(B) 6=-73(B) 20=-27(B) 10=-73(B) 13=-84(B) 16=-57(B) 19=-27(B) 22=-27(B) 32=-73(B) 33=-73(B) 34=-73(B)
 35=-73(B) 36=-73(B) 37=-73(B) 38=-73(B) 39=-73(B) 40=-73(B) 41=-73(B) 42=-73(B) 43=-73(B) 44=-73(B) 45=-73(B) 47=-73(B) 48=-73(B) 49=-63(B) 52=-27(B)
 53=-27(B) 54=-27(B) 55=-27(B) 56=-27(B) 57=-27(B) 58=-27(B) 59=-27(B) 60=-27(B) 61=-27(B) 62=-27(B) 63=-27(B) 64=-27(B) 65=-27(B) 66=-37(B)

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

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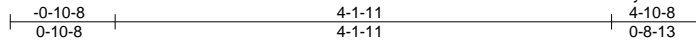
818 Soundside Road
 Edenton, NC 27932

Job 20137	Truss J2	Truss Type JACK-OPEN	Qty 2	Ply 1	140.1582 A 10x10 CP	I36367015
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84 Components (Dunn), Dunn, NC - 28334,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Mar 11 14:07:17 2019 Page 1

ID:RUSz4LGuFS2C1bODNZWBaZyX6cZ-881YPmrDxPIqWchCdvzPXQlan?vyu8V7pIV2zc_QO



Scale = 1:19.2

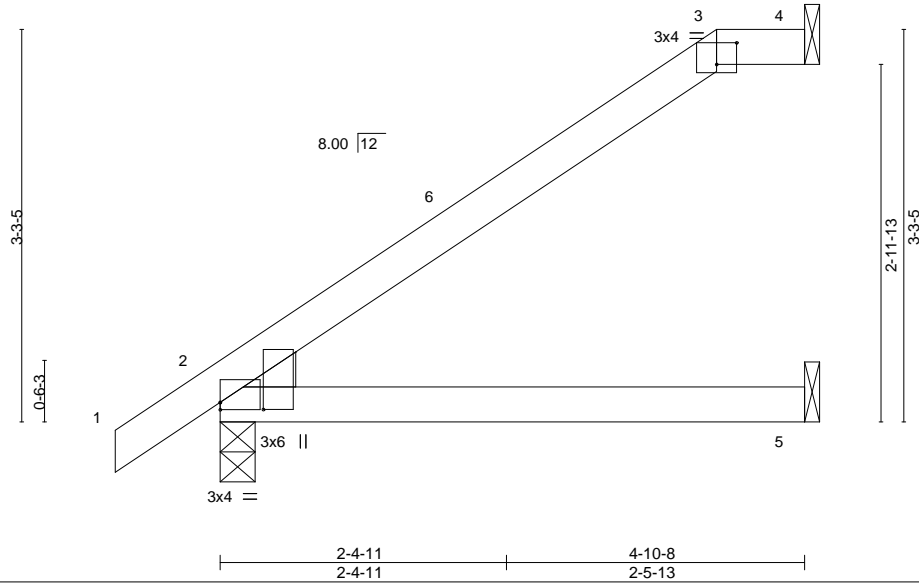


Plate Offsets (X,Y)--	[2:0-0-11,0-4-5], [2:0-0-0,0-0-12], [3:0-2-0,0-2-3]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.33	Vert(LL)	-0.02	2-5	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.24	Vert(CT)	-0.05	2-5	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.03	4	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P						Weight: 18 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-10-8 oc purlins, except
BOT CHORD 2x4 SP No.2	2-0-0 oc purlins: 3-4.
WEDGE	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
Left: 2x4 SP No.3	

REACTIONS. (lb/size) 4=123/Mechanical, 2=255/0-3-8, 5=57/Mechanical
 Max Horz 2=128(LC 12)
 Max Uplift 4=69(LC 12), 2=-21(LC 12)
 Max Grav 4=123(LC 1), 2=255(LC 1), 5=88(LC 3)

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 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 4-1-11, Exterior(2) 4-1-11 to 4-9-12 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) 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) 4.
 - 8) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
 - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



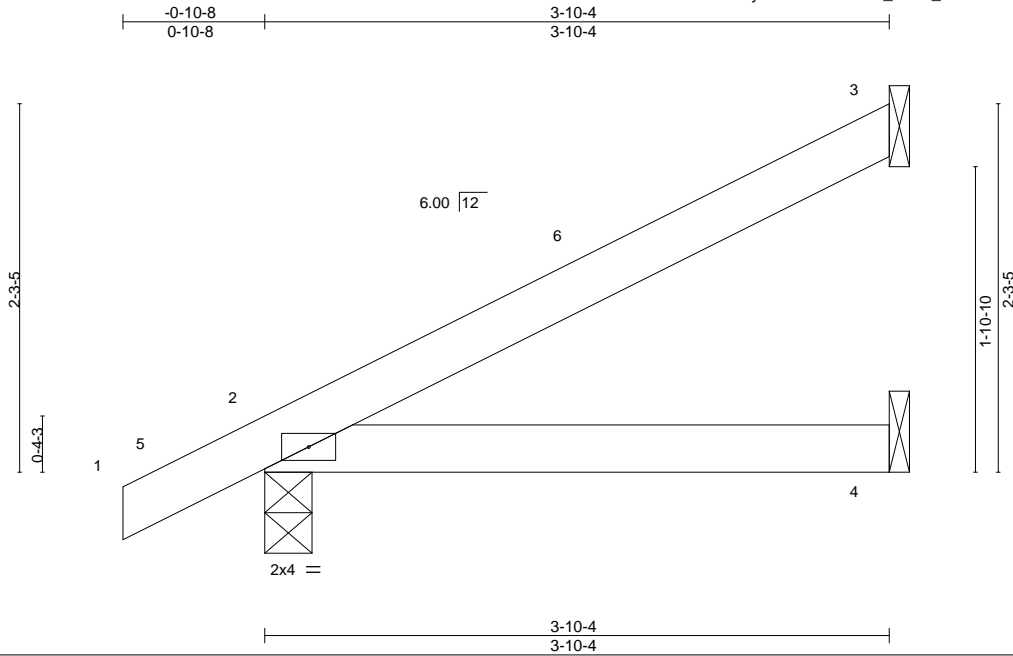
March 12, 2019

Job 20137	Truss J4	Truss Type JACK-OPEN	Qty 2	Ply 1	140.1582 A 10x10 CP	136367017
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84 Components (Dunn), Dunn, NC - 28334,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Mar 11 14:07:18 2019 Page 1

ID:RUSz4LGuFS2C1bODNZWBaZyX6cZ-cLbwdBnT_FY9v_5oEv88Wc4dF_8WeP8lknYs2Uzc_QN



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.21	Vert(LL)	-0.01	2-4	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.16	Vert(CT)	-0.02	2-4	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P						
								Weight: 14 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-10-4 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 3=101/Mechanical, 2=216/0-3-8, 4=36/Mechanical
Max Horz 2=88(LC 12)
Max Uplift 3=65(LC 12), 2=32(LC 12)
Max Grav 3=101(LC 1), 2=216(LC 1), 4=73(LC 3)

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

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 3-9-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3.
 - 6) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.



March 12, 2019

Job	Truss	Truss Type	Qty	Ply	140.1582 A 10x10 CP	136367018
20137	J5	JACK-OPEN	2	1		

84 Components (Dunn), Dunn, NC - 28334,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Mar 11 14:07:19 2019 Page 1

ID:RUSz4LGuFS2C1bODNZWBaZyX6cZ-4X9lqXo5lZg0X8g_ocfN2qdpSOU6NsORzRIPawzc_QM

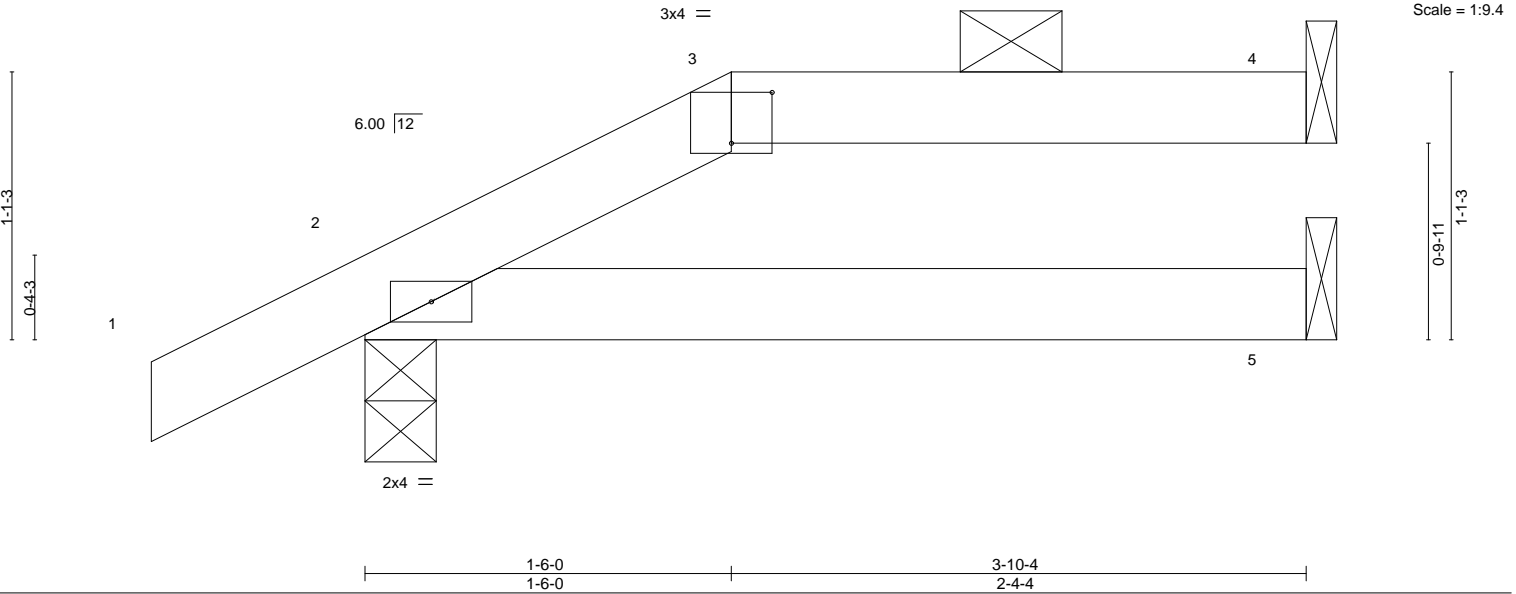
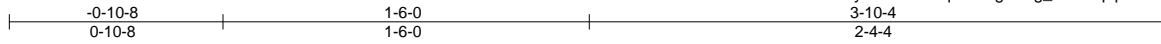


Plate Offsets (X,Y)--	[3:0-2-0,0-2-8]						
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d
TCLL 20.0	Plate Grip DOL	1.15	TC 0.18	Vert(LL)	-0.01	2-5	>999
TCDL 10.0	Lumber DOL	1.15	BC 0.13	Vert(CT)	-0.02	2-5	>999
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.01	4	n/a
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P				
							PLATES
							MT20
							GRIP
							244/190
							Weight: 13 lb
							FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

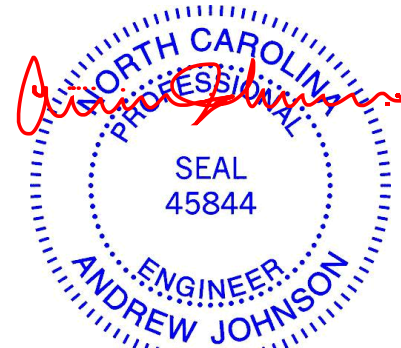
BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-10-4 oc purlins, except 2-0-0 oc purlins: 3-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 4=96/Mechanical, 2=216/0-3-8, 5=42/Mechanical
Max Horz 2=44(LC 12)
Max Uplift 4=-38(LC 9), 2=-36(LC 12)
Max Grav 4=96(LC 1), 2=216(LC 1), 5=67(LC 3)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) 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
- Provide adequate drainage to prevent water ponding.
- 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4.
- One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 12, 2019

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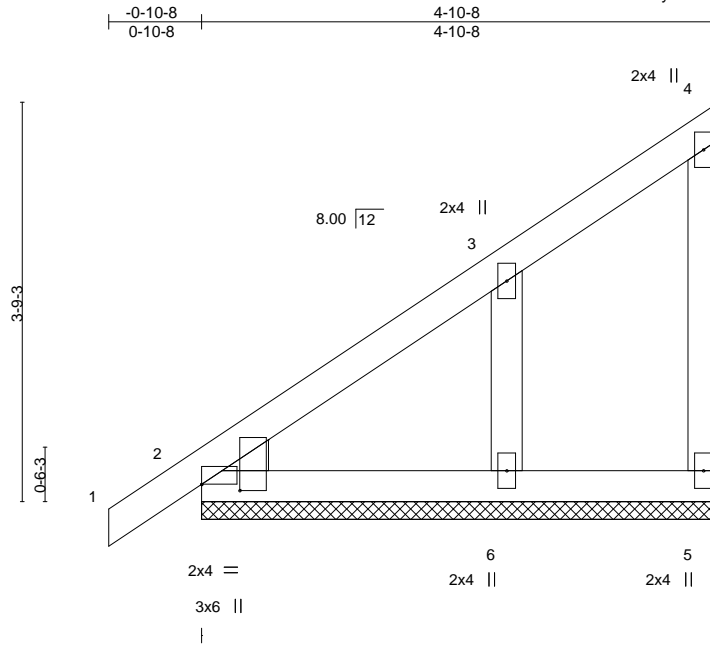
818 Soundside Road
Edenton, NC 27932

Job 20137	Truss JE	Truss Type MONOPITCH SUPPORTED	Qty 1	Ply 1	140.1582 A 10x10 CP Job Reference (optional)	136367019
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84 Components (Dunn), Dunn, NC - 28334,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Mar 11 14:07:20 2019 Page 1

ID:RUSz4LGuFS2C1bODNZWBaZyX6cZ-Yjjh2tpjWso9IFBMKAcb19?MosS6JwaC51y6Mzc_QL



Scale = 1:21.7

Plate Offsets (X,Y)--	[2:0-0-0,0-0-0], [2:0-0-11,0-4-5]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.11	Vert(LL) -0.00 1 n/r 120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.06	Vert(CT) 0.00 1 n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.05	Horz(CT) 0.00 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P		Weight: 26 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3

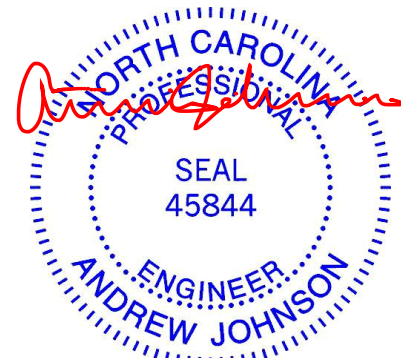
BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 5=44/4-10-8, 2=156/4-10-8, 6=231/4-10-8
Max Horz 2=142(LC 12)
Max Uplift 5=-17(LC 12), 6=-101(LC 12)
Max Grav 5=46(LC 19), 2=156(LC 1), 6=250(LC 19)

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

NOTES-

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-10-8 to 2-1-8, Exterior(2) 2-1-8 to 4-8-12 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 6=101.



March 12, 2019

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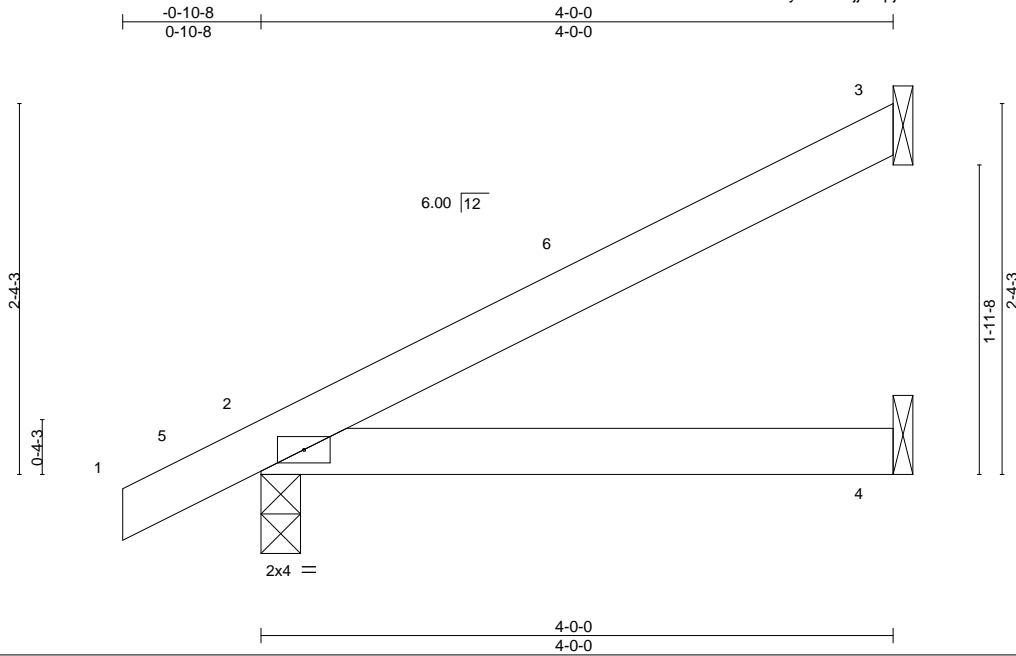
ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job 20137	Truss JP1	Truss Type JACK-OPEN	Qty 3	Ply 1	140.1582 A 10x10 CP	136367020
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84 Components (Dunn), Dunn, NC - 28334,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Mar 11 14:07:20 2019 Page 1

ID:RUSz4LGuFS2C1bODNZWBaZyX6cZ-Yjjh2tpjWso9t9IFBMKAcB19zLoqk6JeaC51y6Mzc_QL



Scale = 1:14.6

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.24	Vert(LL)	0.02	2-4	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.17	Vert(CT)	-0.03	2-4	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P							
									Weight: 14 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 3=107/Mechanical, 2=220/0-3-0, 4=38/Mechanical
Max Horz 2=91(LC 12)
Max Uplift 3=68(LC 12), 2=32(LC 12), 4=12(LC 8)
Max Grav 3=107(LC 1), 2=220(LC 1), 4=76(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 3-11-4 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4.
- 6) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.



March 12, 2019

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	140.1582 A 10x10 CP	I36367021
20137	JP2	HALF HIP	2	1		

84 Components (Dunn), Dunn, NC - 28334,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Mar 11 14:07:21 2019 Page 1

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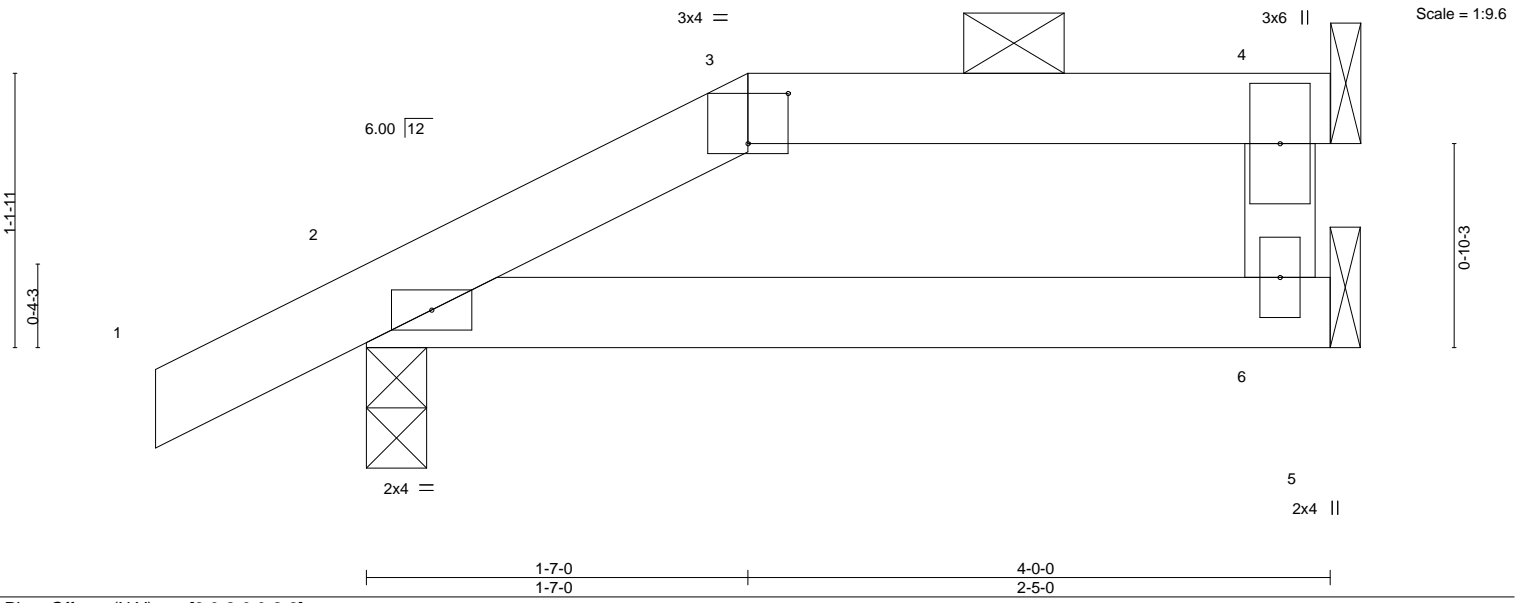


Plate Offsets (X,Y)--	[3:0-2-0,0-2-8]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.18	Vert(LL)	0.02	2-6	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.14	Vert(CT)	-0.02	2-6	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.01	4	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P						

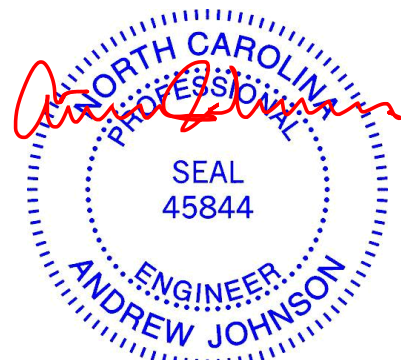
Weight: 15 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-0-0 oc purlins, except
BOT CHORD 2x4 SP No.2	2-0-0 oc purlins: 3-4.
WEBS 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 2=215/0-3-0, 6=46/Mechanical, 4=96/Mechanical
 Max Horz 2=46(LC 12)
 Max Uplift 2=-48(LC 9), 6=-13(LC 9), 4=-42(LC 9)
 Max Grav 2=215(LC 1), 6=77(LC 3), 4=96(LC 1)

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 4.
 - One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 12, 2019

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/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

ENGINEERING BY
TRENCO
 A MiTek Affiliate

818 Soundside Road
 Edenton, NC 27932

Job 20137	Truss P3	Truss Type COMMON	Qty 1	Ply 1	140.1582 A 10x10 CP	I36367022
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84 Components (Dunn), Dunn, NC - 28334, 8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Mar 11 14:07:22 2019 Page 1

ID:RUSz4LGuFS2C1bODNZWBaZyX6cZ-V6rRSYq_1U2bObOZTID4gSF1bbTjaCjtfPW3BFzc_QJ



4x4 =

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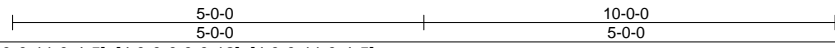
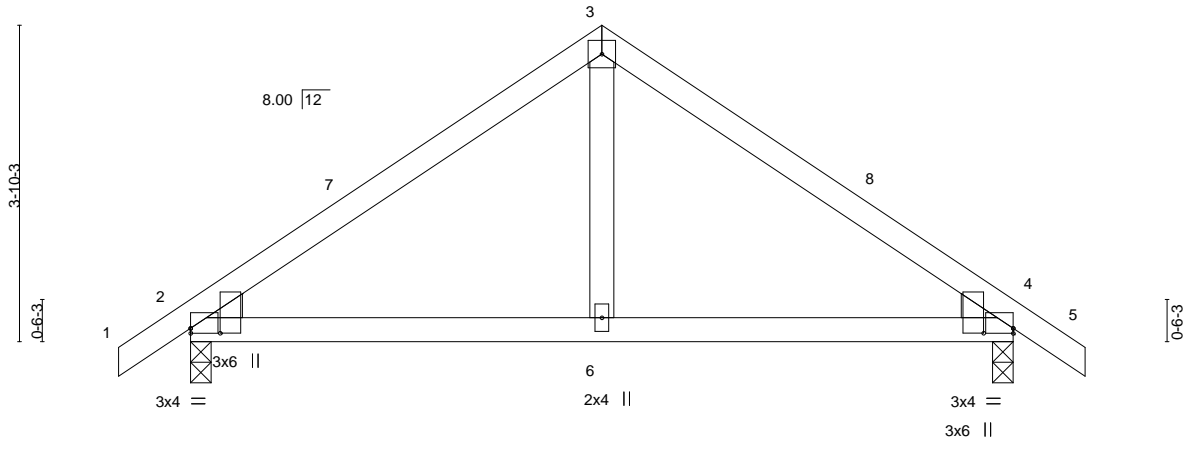


Plate Offsets (X,Y)--	[2:0-0-0,0-0-12], [2:0-0-11,0-4-5], [4:0-0-0,0-0-12], [4:0-0-11,0-4-5]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.32	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.27	Vert(LL) 0.03 4-6 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.09	Vert(CT) -0.03 2-6 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 4 n/a n/a		
	Code IRC2015/TPI2014			Weight: 43 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	
WEDGE	
Left: 2x4 SP No.3, Right: 2x4 SP No.3	

REACTIONS. (lb/size) 2=450/0-3-0, 4=450/0-3-0
 Max Horz 2=-97(LC 10)
 Max Uplift 2=-62(LC 12), 4=-62(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-460/339, 3-4=-460/338
 BOT CHORD 2-6=-182/304, 4-6=-182/304

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 5-0-0, Exterior(2) 5-0-0 to 8-0-0, Interior(1) 8-0-0 to 10-10-8 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4.
 - One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.



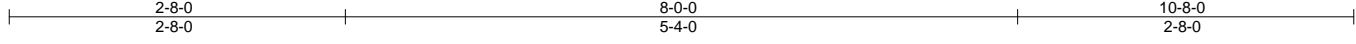
March 12, 2019

Job	Truss	Truss Type	Qty	Ply	140.1582 A 10x10 CP	136367023
20137	PB1	PIGGYBACK	2	1		

84 Components (Dunn), Dunn, NC - 28334,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Mar 11 14:07:22 2019 Page 1

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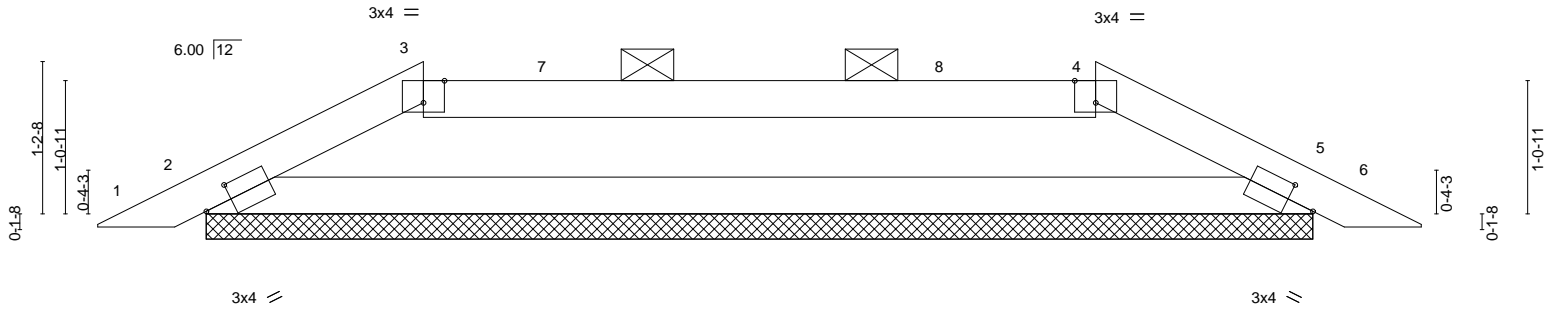


Plate Offsets (X,Y)--	[2:0-2-10,0-1-8], [3:0-2-0,Edge], [4:0-2-0,Edge], [5:0-2-10,0-1-8]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/def	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.42	Vert(LL)	0.00	6	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.71	Vert(CT)	0.01	6	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.01	5	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-R					Weight: 30 lb	FT = 20%

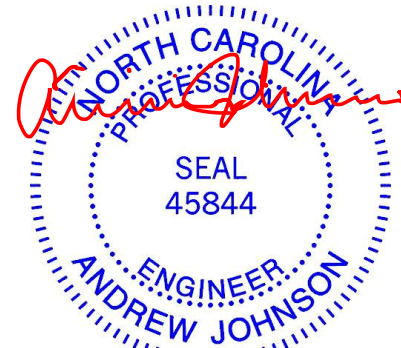
LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.); 3-4.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 2=384/8-9-6, 5=384/8-9-6
 Max Horz 2=-18(LC 17)
 Max Uplift 2=-39(LC 9), 5=-39(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-662/298, 3-4=-608/281, 4-5=-662/298
 BOT CHORD 2-5=-227/608

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-4-11 to 6-10-15, Interior(1) 6-10-15 to 8-0-0, Exterior(2) 8-0-0 to 10-3-5 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - Gable requires continuous bottom chord bearing.
 - 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 5.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 12, 2019

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.

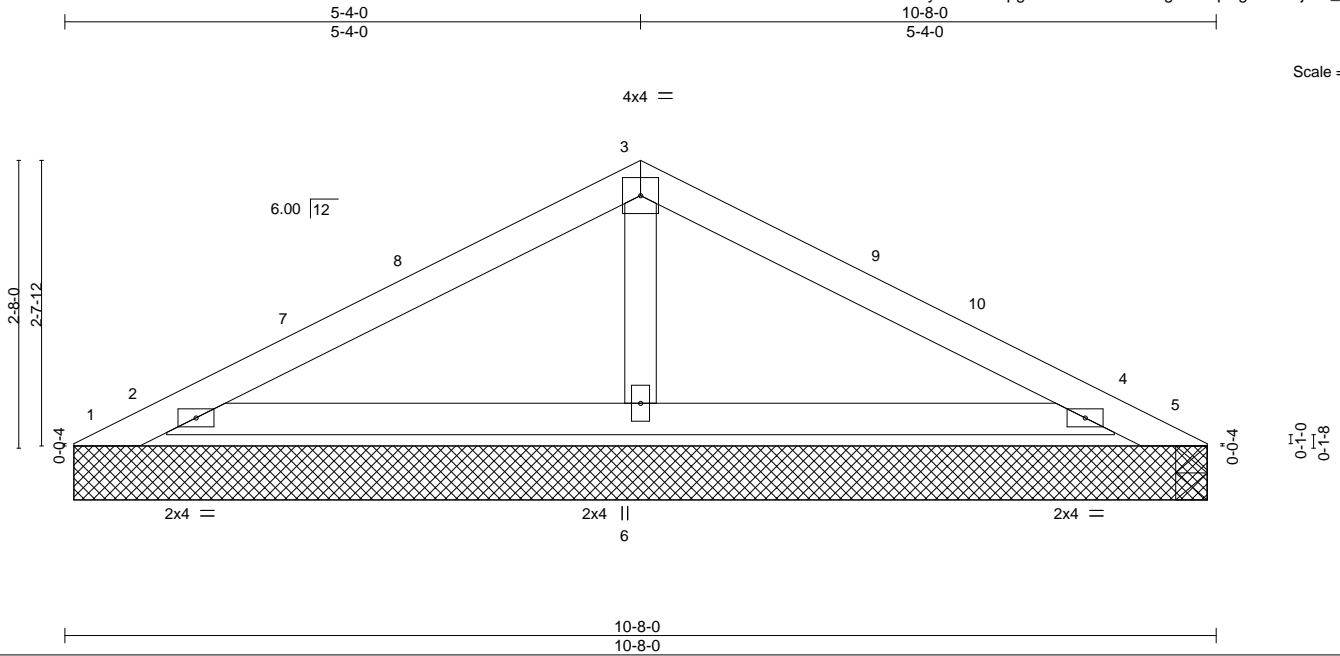
ENGINEERING BY
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 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	140.1582 A 10x10 CP	136367024
20137	PB2	PIGGYBACK	3	1		

84 Components (Dunn), Dunn, NC - 28334,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Mar 11 14:07:23 2019 Page 1

ID:RUSz4LGuFS2C1bODNZWbAZyX6cZ-zlOpgurconAS0lzl1SkJDgnTn?7Jgl1u3Gcjzbc_Ql



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.29	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.19	Vert(LL) -0.01 4-6 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.04	Vert(CT) -0.02 4-6 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 4 n/a n/a		
	Code IRC2015/TPI2014			Weight: 33 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 10-6-0 except (jt=length) 5=0-3-8, 5=0-3-8.
 (lb) - Max Horz 1=44(LC 13)
 Max Uplift All uplift 100 lb or less at joint(s) except 1=-210(LC 1), 2=-218(LC 12), 4=-174(LC 13), 5=-146(LC 1), 5=-146(LC 1)
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 2=457(LC 1), 4=406(LC 1), 6=300(LC 1)

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

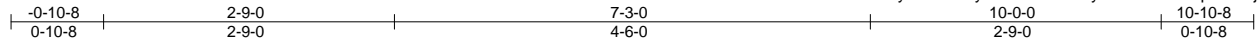
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-4-11 to 3-4-11, Interior(1) 3-4-11 to 5-4-0, Exterior(2) 5-4-0 to 8-4-0, Interior(1) 8-4-0 to 10-5-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 210 lb uplift at joint 1, 218 lb uplift at joint 2, 174 lb uplift at joint 4 and 146 lb uplift at joint 5.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



March 12, 2019

Job	Truss	Truss Type	Qty	Ply	140.1582 A 10x10 CP	136367025
20137	PH1	HIP GIRDER	1	1		

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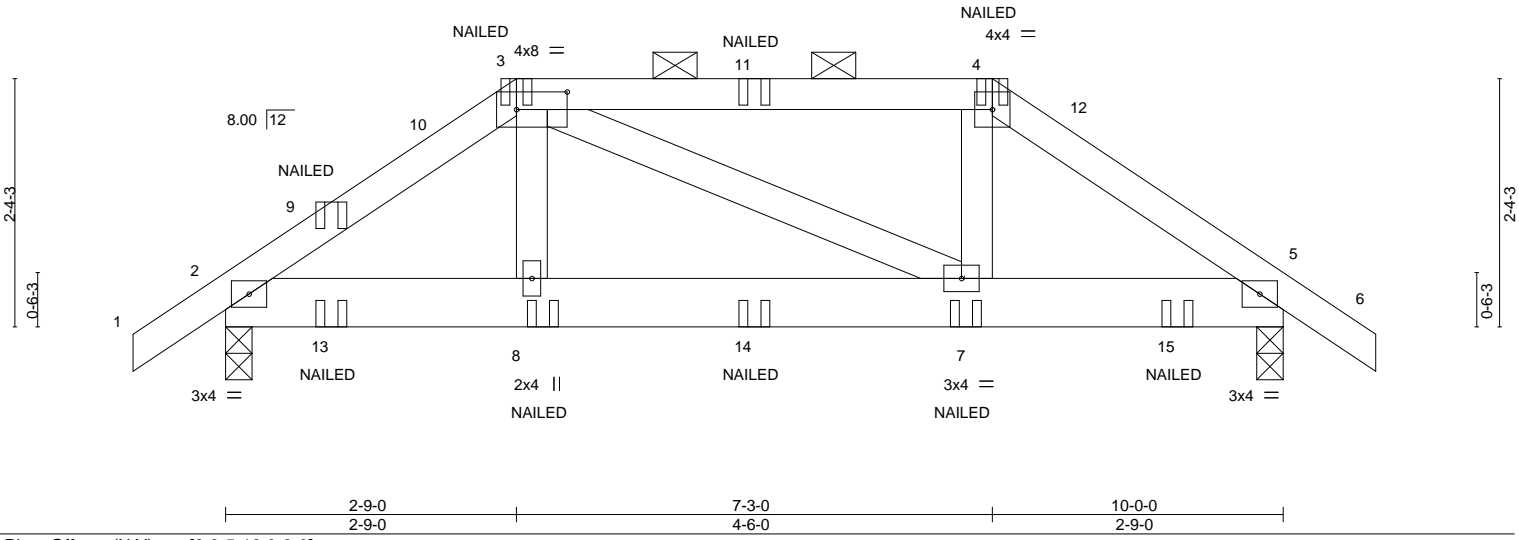


Plate Offsets (X,Y)--	[3:0-5-12,0-2-0]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.45	Vert(LL)	0.02	7-8	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.16	Vert(CT)	-0.02	7-8	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.09	Horz(CT)	0.01	5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						Weight: 55 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except
BOT CHORD 2x6 SP No.2	2-0-0 oc purlins (6-0-0 max.); 3-4.
WEBS 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 2=608/0-3-0, 5=578/0-3-0
 Max Horz 2=-60(LC 10)
 Max Uplift 2=-224(LC 9), 5=-199(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-748/517, 3-4=-552/453, 4-5=-716/510
 BOT CHORD 2-8=-350/556, 7-8=-359/565, 5-7=-351/544

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 2-9-0, Exterior(2) 2-9-0 to 10-10-8 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 5. This connection is for uplift only and does not consider lateral forces.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-3=-60, 3-4=-60, 4-6=-60, 2-5=-20
 Concentrated Loads (lb)
 Vert: 3=-47(B) 4=-47(B) 8=-18(B) 7=-18(B) 9=-36(B) 11=-47(B) 13=-28(B) 14=-18(B) 15=-28(B)



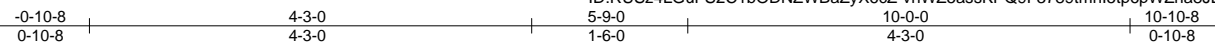
March 12, 2019

Job	Truss	Truss Type	Qty	Ply	140.1582 A 10x10 CP	136367026
20137	PH2	HIP	1	1		

84 Components (Dunn), Dunn, NC - 28334,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Mar 11 14:07:25 2019 Page 1

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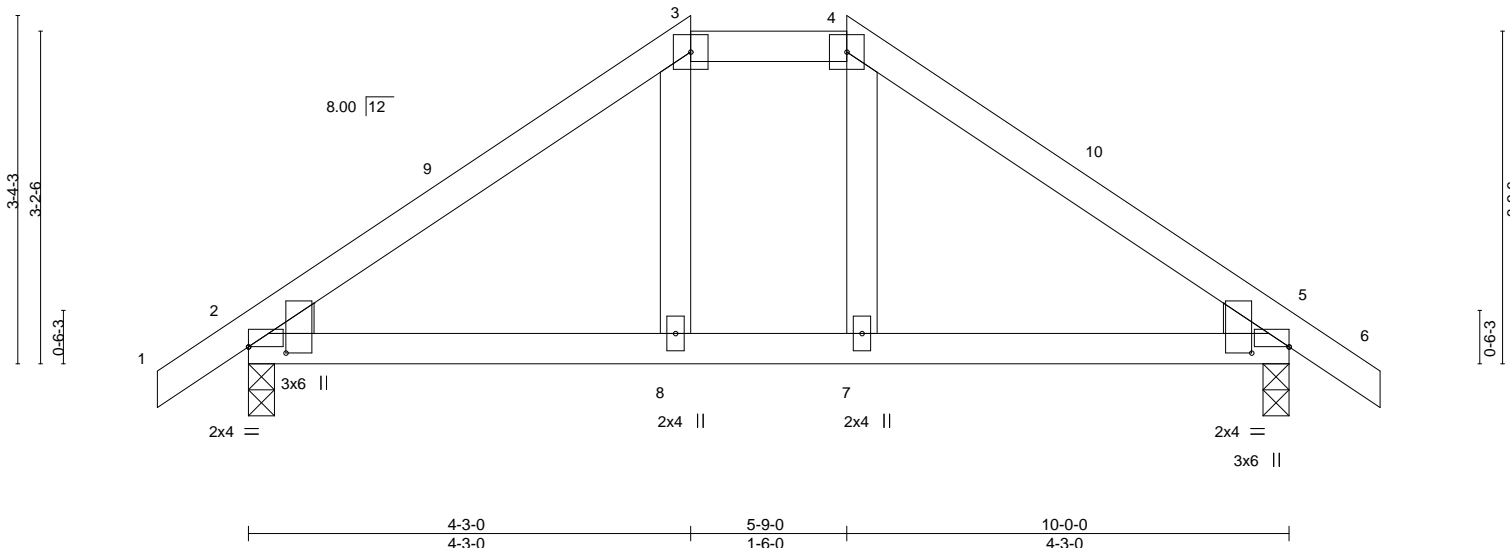


Plate Offsets (X,Y)--	[2:0-0-0,0-0-0], [2:0-0-11,0-4-5], [5:0-0-11,0-4-5]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.24	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.20	Vert(LL) -0.02 2-8 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.05	Vert(CT) -0.03 2-8 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.01 5 n/a n/a		
	Code IRC2015/TPI2014			Weight: 45 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3, Right: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.); 3-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 2=450/0-3-0, 5=450/0-3-0
Max Horz 2=83(LC 11)
Max Uplift 2=-64(LC 9), 5=-64(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-479/376, 3-4=-325/339, 4-5=-479/376
BOT CHORD 2-8=-217/329, 7-8=-211/325, 5-7=-217/329

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 4-3-0, Exterior(2) 4-3-0 to 9-10-8, Interior(1) 9-10-8 to 10-10-8 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 5. This connection is for uplift only and does not consider lateral forces.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 12, 2019

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	140.1582 A 10x10 CP	136367027
20137	T7	PIGGYBACK BASE	2	1		

84 Components (Dunn), Dunn, NC - 28334,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Mar 11 14:07:26 2019 Page 1

ID:RUSz4LGuFS2C1bODNZWbaZyX6cZ-Nt4ylwtU5iY0iDiKibH0qIPqxDkjWp2Ta1UHK0zc_QF



Scale = 1:87.6

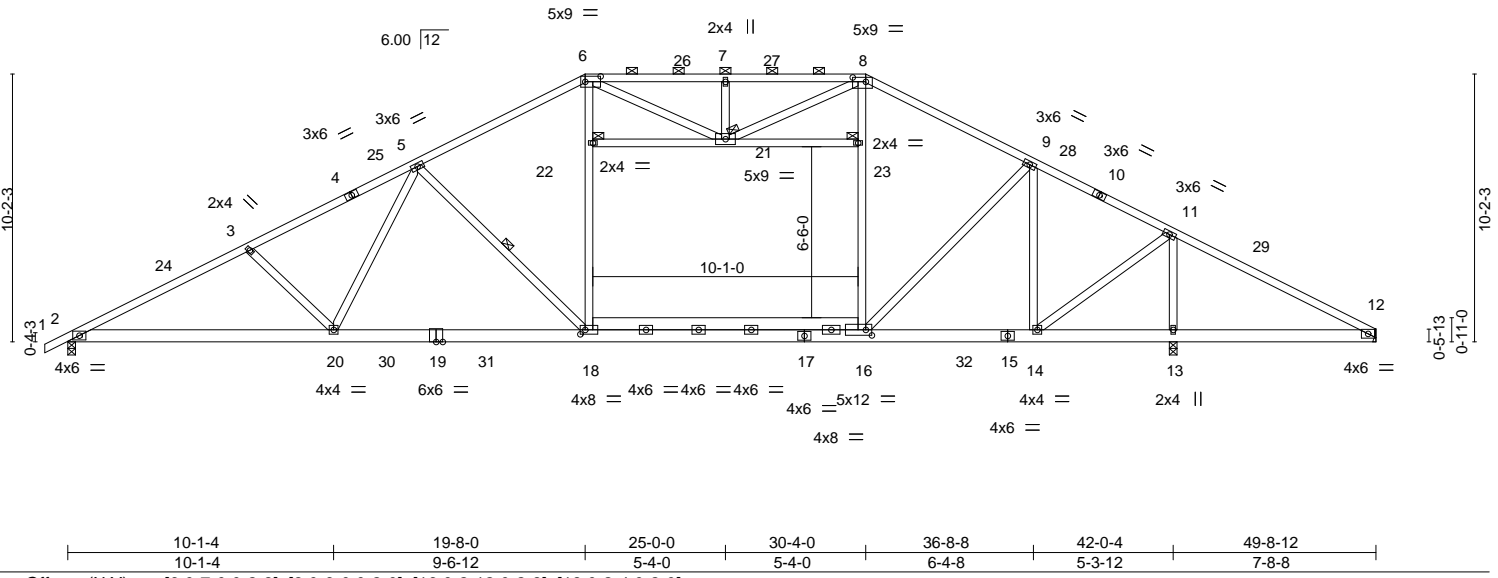


Plate Offsets (X, Y)--	[6:0-7-0,0-2-8], [8:0-6-0,0-2-0], [16:0-2-12,0-2-8], [18:0-2-4,0-2-0]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.87	Vert(LL)	-0.57	18-20	>889	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.71	Vert(TL)	-1.22	18-20	>412		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.90	Horz(TL)	0.11	12	n/a		
BCDL 10.0	Code IRC2012/TPI2007		Matrix-S	Attic	-0.30	16-18	411	Weight: 352 lb	FT = 20%

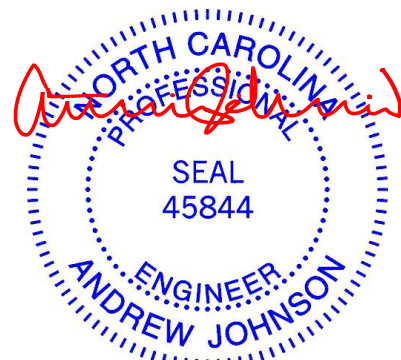
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (2-9-9 max.): 6-8.
BOT CHORD 2x6 SP DSS *Except* 16-18: 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 9-7-6 oc bracing.
WEBS 2x4 SP No.3 *Except* 6-18,8-16: 2x4 SP No.2	WEBS 1 Row at midpt 5-18
	JOINTS 1 Brace at Jt(s): 21, 22, 23

REACTIONS. (lb/size) 2=1894/0-3-8, 13=1297/0-3-8, 12=935/Mechanical
 Max Horz 2=180(LC 12)
 Max Uplift 2=-219(LC 12), 13=-338(LC 13), 12=-181(LC 12)
 Max Grav 2=2034(LC 2), 13=1659(LC 27), 12=1027(LC 26)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3997/461, 3-5=-3758/451, 5-6=-2852/409, 6-7=-2830/512, 7-8=-2830/512, 8-9=-2774/415, 9-11=-2485/359, 11-12=-2007/435
 BOT CHORD 2-20=-442/3504, 18-20=-257/3012, 16-18=-80/2448, 14-16=-130/2161, 13-14=-325/1755, 12-13=-325/1755
 WEBS 3-20=-358/221, 5-20=-69/677, 5-18=-835/285, 18-22=-27/859, 6-22=-16/888, 7-21=-337/162, 8-21=-154/587, 16-23=-51/715, 8-23=-39/735, 9-16=-12/425, 9-14=-722/181, 11-14=-151/1066, 11-13=-1408/410, 6-21=-162/413

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) V(IRC2012)=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 4-1-3, Interior(1) 4-1-3 to 19-8-0, Exterior(2) 19-8-0 to 26-8-6, Interior(1) 26-8-6 to 30-4-0, Exterior(2) 30-4-0 to 37-4-6, Interior(1) 37-4-6 to 49-8-0 zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Ceiling dead load (5.0 psf) on member(s). 21-22, 21-23
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 16-18
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 181 lb uplift at joint 12.
- One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 13. This connection is for uplift only and does not consider lateral forces.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.



March 12, 2019

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.

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818 Soundside Road
 Edenton, NC 27932

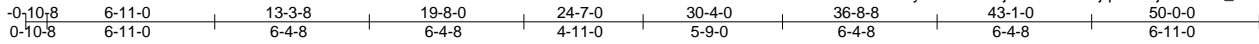
Job	Truss	Truss Type	Qty	Ply	140.1582 A 10x10 CP	136367028
20137	T8	PIGGYBACK BASE	1	1		

84 Components (Dunn), Dunn, NC - 28334,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Mar 11 14:07:28 2019 Page 1

ID:RUSz4LGuFS2C1bODNZWbZyX6cZ-JGCjicvldKok6Wsqj?KUwjlUAo0RF_lvm1LzNOvzc_QD

Job Reference (optional)



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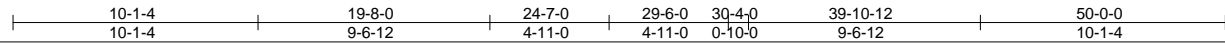
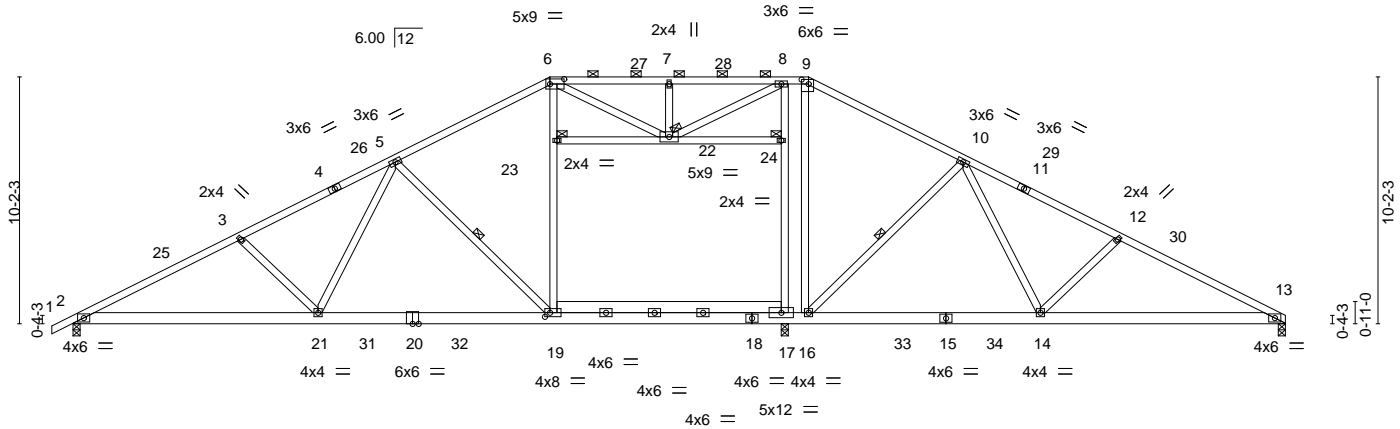


Plate Offsets (X,Y)--	[6:0-7-0,0-2-8], [9:0-3-8,0-2-4], [19:0-2-8,0-2-0]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.85	Vert(LL) -0.54 19-21 >655 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.58	Vert(TL) -1.20 19-21 >292 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.81	Horz(TL) 0.13 13 n/a n/a		
BCDL 10.0	Code IRC2012/TPI2007	Matrix-S	Attic -0.25 17-19 466 360	Weight: 356 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 11-13: 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (3-0-12 max.): 6-9.
BOT CHORD 2x6 SP DSS *Except* 17-19: 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 6-19,9-16,8-17: 2x4 SP No.2	WEBS 1 Row at midpt 5-19, 10-16
	JOINTS 1 Brace at Jt(s): 22, 23, 24

REACTIONS. (lb/size) 2=1869/0-3-8, 17=556/0-3-8, 13=1708/0-3-8
 Max Horz 2=180(LC 16)
 Max Uplift 2=-254(LC 12), 17=-218(LC 13), 13=-95(LC 12)
 Max Grav 2=2027(LC 26), 17=834(LC 25), 13=1831(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3981/483, 3-5=-3743/473, 5-6=-2836/437, 6-7=-2757/517, 7-8=-2757/517,
 8-9=-2406/431, 9-10=-2694/444, 10-12=-3355/459, 12-13=-3604/486
 BOT CHORD 2-21=-507/3489, 19-21=-328/2999, 17-19=-133/2433, 16-17=-130/2405, 14-16=-210/2740,
 13-14=-351/3160
 WEBS 3-21=-357/221, 5-21=-55/666, 5-19=-820/274, 19-23=-61/888, 6-23=-52/918,
 7-22=-310/144, 8-22=-119/516, 9-16=-107/993, 10-16=-692/272, 10-14=-61/537,
 12-14=-390/235, 6-22=-132/315, 17-24=-383/124, 8-24=-360/134

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) V(IRC2012)=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 4-1-8, Interior(1) 4-1-8 to 19-8-0, Exterior(2) 19-8-0 to 26-8-14, Interior(1) 26-8-14 to 30-4-0, Exterior(2) 30-4-0 to 37-4-14, Interior(1) 37-4-14 to 49-10-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Ceiling dead load (5.0 psf) on member(s). 22-23, 22-24
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 17-19
- One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 17, and 13. This connection is for uplift only and does not consider lateral forces.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.



March 12, 2019

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.



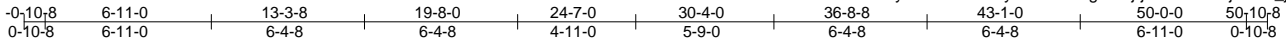
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	140.1582 A 10x10 CP	136367029
20137	T9	PIGGYBACK BASE	2	1		

84 Components (Dunn), Dunn, NC - 28334,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Mar 11 14:07:29 2019 Page 1

ID:RUSz4LGuFS2C1bODNZWbaZyX6cZ-nSm4wywNODwbkgRvOjriSw1LaQnSjBbvG_jxLzC_QC



Scale: 1/8"=1'

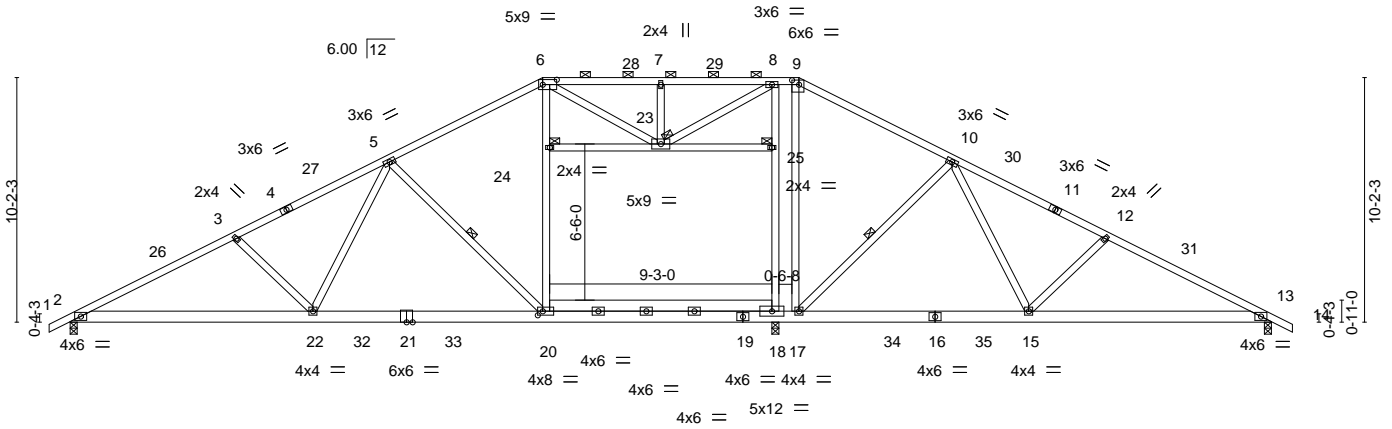


Plate Offsets (X,Y)--	[6:0-7-0,0-2-8], [9:0-3-8,0-2-4], [20:0-2-8,0-2-0]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.85	Vert(LL)	-0.54	20-22	>647	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.58	Vert(TL)	-1.21	20-22	>289		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.85	Horz(TL)	0.13	13	n/a		
BCDL 10.0	Code IRC2012/TPI2007		Matrix-S	Attic	-0.50	18-20	457	Weight: 358 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except
BOT CHORD 2x6 SP DSS *Except* 18-20: 2x6 SP No.2	2-0-0 oc purlins (3-1-8 max.): 6-9.
WEBS 2x4 SP No.3 *Except* 6-20,9-17,8-18: 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
	WEBS 1 Row at midpt 5-20, 10-17
	JOINTS 1 Brace at Jt(s): 23, 24, 25

REACTIONS. (lb/size) 2=1862/0-3-8, 18=574/0-3-8, 13=1759/0-3-8
 Max Horz 2=172(LC 12)
 Max Uplift 2=-253(LC 12), 18=-215(LC 13), 13=-99(LC 12)
 Max Grav 2=2018(LC 26), 18=846(LC 25), 13=1870(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3962/484, 3-5=-3724/473, 5-6=-2815/437, 6-7=-2705/509, 7-8=-2705/509,
 8-9=-2381/431, 9-10=-2667/445, 10-12=-3321/445, 12-13=-3567/463
 BOT CHORD 2-22=-498/3472, 20-22=-319/2981, 18-20=-124/2411, 17-18=-120/2380, 15-17=-180/2714,
 13-15=-295/3123
 WEBS 3-22=-357/221, 5-22=-55/668, 5-20=-822/274, 20-24=-61/885, 6-24=-52/912,
 6-23=-122/285, 8-23=-110/487, 9-17=-108/979, 10-17=-691/273, 10-15=-58/533,
 12-15=-376/224, 18-25=-385/123, 8-25=-363/133, 7-23=-313/144

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) V(IRC2012)=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 4-1-8, Interior(1) 4-1-8 to 19-8-0, Exterior(2) 19-8-0 to 26-8-14, Interior(1) 26-8-14 to 30-4-0, Exterior(2) 30-4-0 to 37-4-14, Interior(1) 37-4-14 to 50-10-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Ceiling dead load (5.0 psf) on member(s). 23-24, 23-25
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 18-20
 - One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 18, and 13. This connection is for uplift only and does not consider lateral forces.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.



March 12, 2019

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</p> <p>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.</p>	<p>ENGINEERING BY TRENCO A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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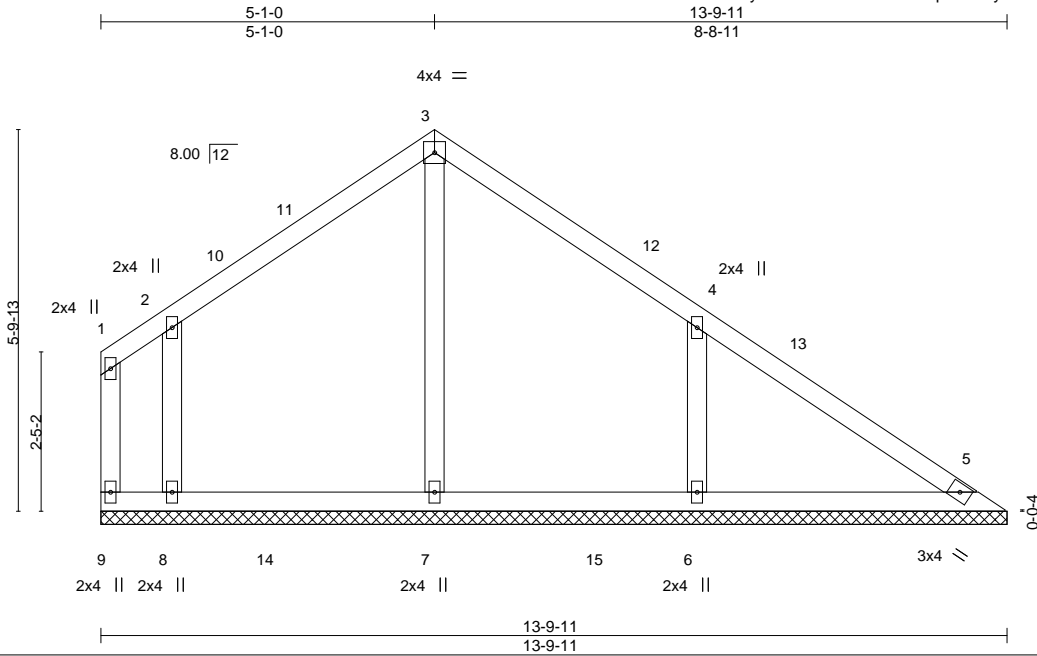
Job 20137	Truss V1	Truss Type GABLE	Qty 1	Ply 1	140.1582 A 10x10 CP	136367030
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84 Components (Dunn),

Dunn, NC - 28334,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Mar 11 14:07:30 2019 Page 1

ID:RUSz4LGuFS2C1bODNZWBaZyX6cZ-GeKS8lw?9x2SLq06xQMy?8afVqEQSp93VeSUtnzc_QB



Scale = 1:35.1

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.26	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.15	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.13	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S					Weight: 63 lb	FT = 20%

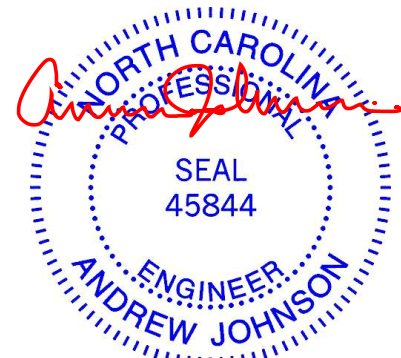
LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3
 OTHERS 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 13-9-11.
 (lb) - Max Horz 9=-140(LC 13)
 Max Uplift All uplift 100 lb or less at joint(s) 5 except 9=-108(LC 19), 8=-147(LC 12), 6=-162(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 9, 5 except 7=403(LC 20), 8=386(LC 19), 6=436(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 2-8=-273/186, 4-6=-315/209

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 5-1-0, Exterior(2) 5-1-0 to 8-1-0, Interior(1) 8-1-0 to 13-3-15 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit 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) 5 except (jt=lb) 9=108, 8=147, 6=162.



March 12, 2019

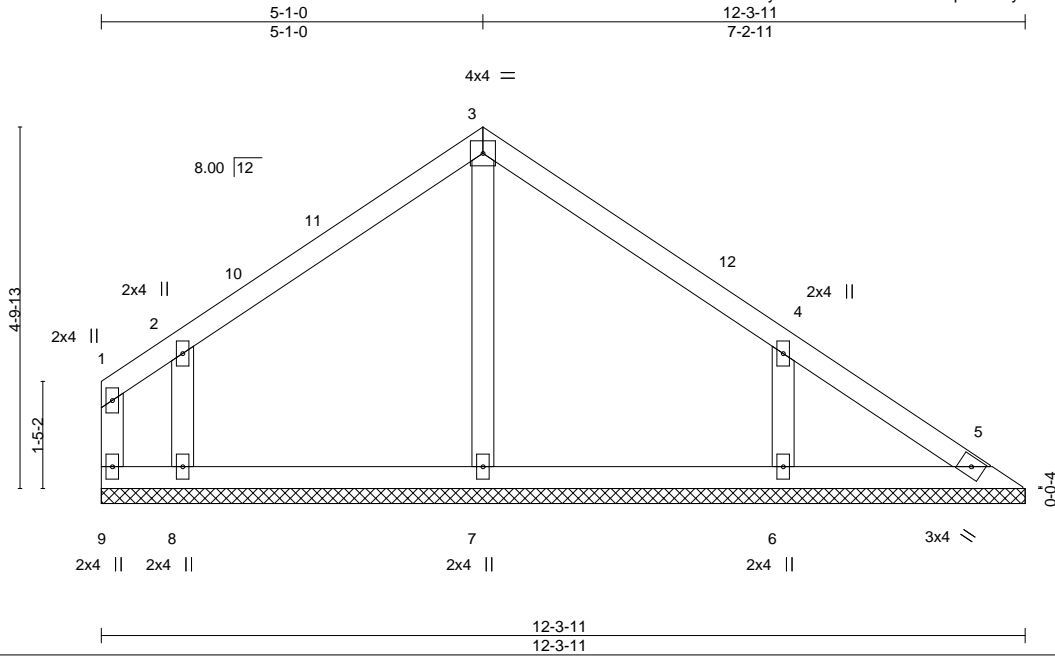
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before 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.

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 818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	140.1582 A 10x10 CP	136367031
20137	V2	GABLE	1	1		

84 Components (Dunn), Dunn, NC - 28334,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Mar 11 14:07:30 2019 Page 1
 ID:RUSz4LGuFS2C1bODNZWBaZyX6cZ-GeKS8lw?9x2SLq06xQMy?8ahbqF_Spi3VeSUTrnc_QB



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.19	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.12	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.09	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S					Weight: 52 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3	
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 12-3-11.
 (lb) - Max Horz 9=-108(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 9, 5 except 8=-160(LC 12), 6=-134(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 9, 5 except 7=301(LC 1), 8=351(LC 19), 6=339(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 2-8=-276/193, 4-6=-263/176

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 5-1-0, Exterior(2) 5-1-0 to 8-1-0, Interior(1) 8-1-0 to 11-9-15 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit 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) 9, 5 except (jt=lb) 8=160, 6=134.



March 12, 2019

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</p> <p>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.</p>	<p>ENGINEERING BY</p> <p>TRENCO</p> <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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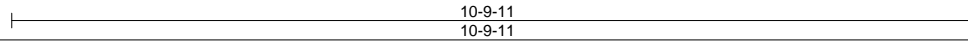
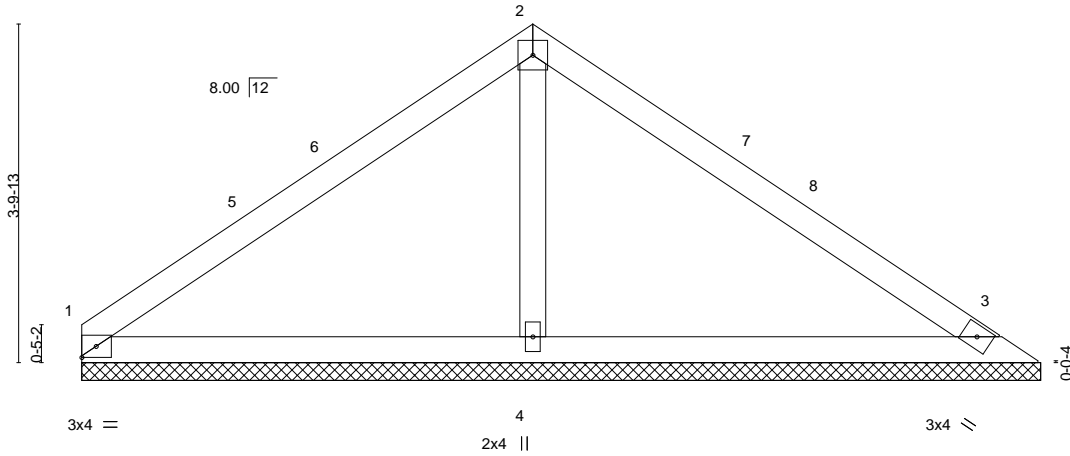
Job	Truss	Truss Type	Qty	Ply	140.1582 A 10x10 CP	136367032
20137	V3	GABLE	1	1		
84 Components (Dunn), Dunn, NC - 28334,						Job Reference (optional)

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Mar 11 14:07:31 2019 Page 1
 ID:RUSz4LGuFS2C1bODNZWBaZyX6cZ-krtrLdxdwEAJz_bIV8tBXL6o3EYrBGACjIC2?Ezc_QA



4x4 =

Scale = 1:26.0



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.40	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.27	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.08	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-S					Weight: 40 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 OTHERS 2x4 SP No.3

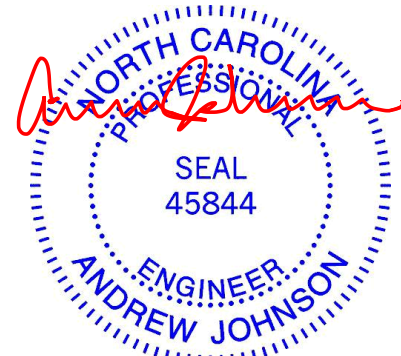
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 1=201/10-9-11, 3=207/10-9-11, 4=418/10-9-11
 Max Horz 1=-86(LC 10)
 Max Uplift 1=-37(LC 12), 3=-50(LC 13), 4=-13(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 2-4=-265/83

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 5-1-0, Exterior(2) 5-1-0 to 8-1-0, Interior(1) 8-1-0 to 10-3-15 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit 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, 4.



March 12, 2019

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 Edenton, NC 27932

Job 20137	Truss V4	Truss Type VALLEY	Qty 1	Ply 1	140.1582 A 10x10 CP	136367033
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84 Components (Dunn), Dunn, NC - 28334,

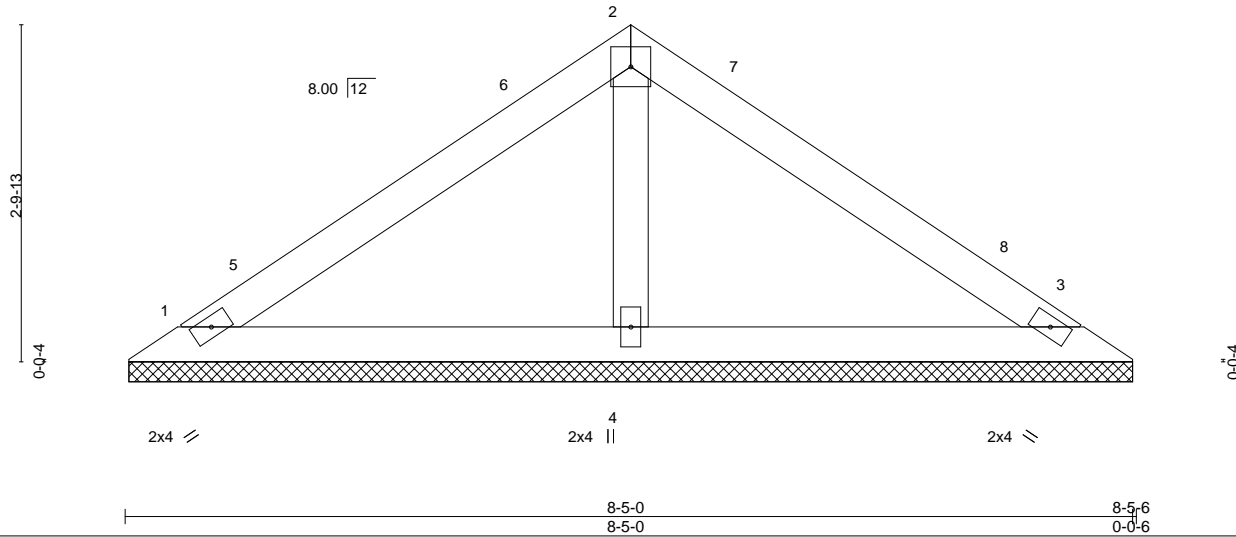
8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Mar 11 14:07:32 2019 Page 1

ID:RUSz4LGuFS2C1bODNZWBaZyX6cZ-C1RDZzyFhYIAb89U3rOQ4ZF?sdw2wk_LyyxbXgzc_Q9



4x4 =

Scale = 1:19.2



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.27	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.14	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P						Weight: 29 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 OTHERS 2x4 SP No.3

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.

REACTIONS. (lb/size) 1=162/8-4-10, 3=162/8-4-10, 4=276/8-4-10
 Max Horz 1=-62(LC 8)
 Max Uplift 1=-36(LC 12), 3=-44(LC 13)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-5-12 to 3-5-12, Interior(1) 3-5-12 to 4-2-11, Exterior(2) 4-2-11 to 7-2-11, Interior(1) 7-2-11 to 7-11-10 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



March 12, 2019

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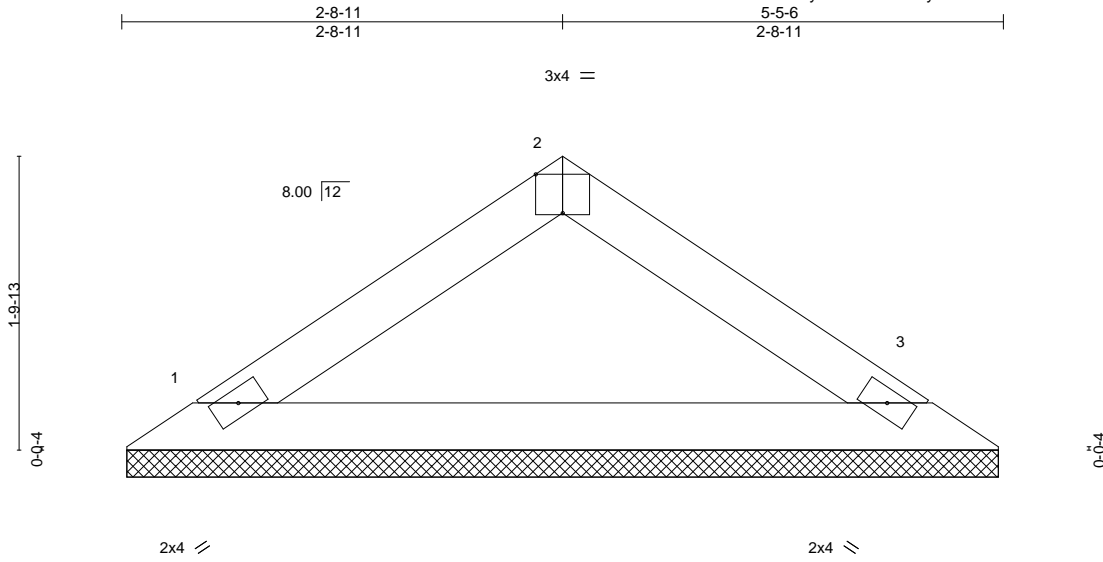


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Job 20137	Truss V5	Truss Type VALLEY	Qty 1	Ply 1	140.1582 A 10x10 CP	136367034
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84 Components (Dunn), Dunn, NC - 28334,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Mar 11 14:07:32 2019 Page 1
ID:RUSz4LGuFS2C1bODNZWBaZyX6cZ-C1RDZzyFhYIAb89U3rOQ4Zf2fdvJwkcLyyxbXgzc_Q9



Scale = 1:14.2

Plate Offsets (X,Y)--	[2-0-2-0,Edge]	5-5-0	5-5-0	5-5-6	0-0-6
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.09	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.25	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 3 n/a n/a		
	Code IRC2015/TPI2014			Weight: 16 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-5-6 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 1=179/5-4-10, 3=179/5-4-10
Max Horz 1=-37(LC 8)
Max Uplift 1=-19(LC 12), 3=-19(LC 13)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) 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
- Gable requires continuous bottom chord bearing.
- 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



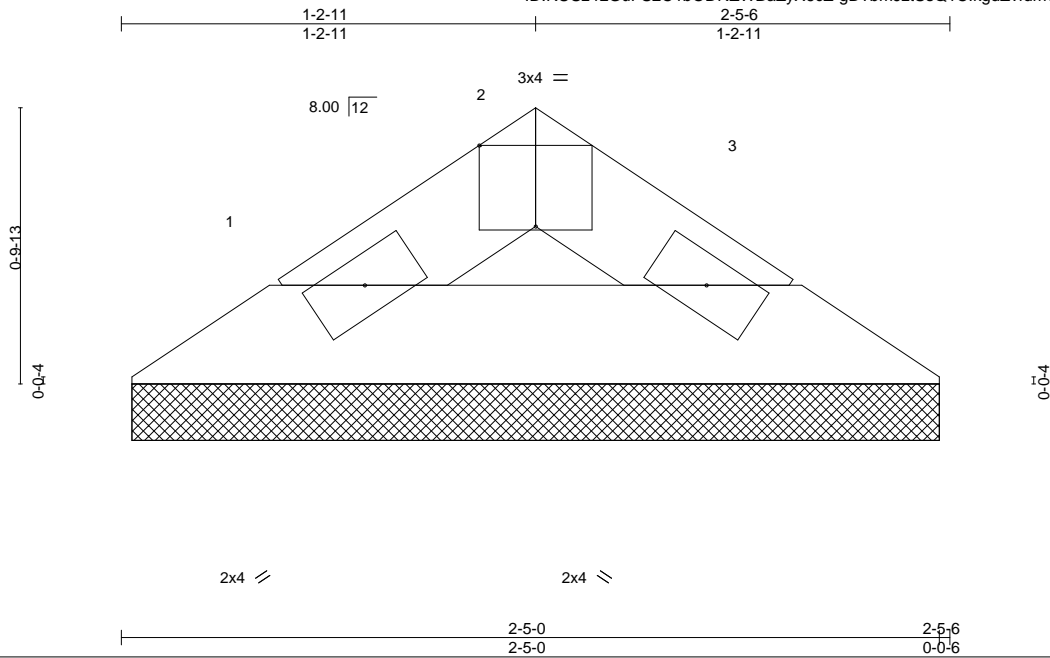
March 12, 2019

Job 20137	Truss V6	Truss Type VALLEY	Qty 1	Ply 1	140.1582 A 10x10 CP	136367035
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84 Components (Dunn), Dunn, NC - 28334,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Mar 11 14:07:33 2019 Page 1

ID:RUSz4LGuFS2C1bODNZWBaZyX6cZ-gD?bmJztSsQ1ClkgdZvfdmCEf115fBsVBch846zc_Q8



Scale = 1:6.8

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.01	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.02	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P					Weight: 6 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

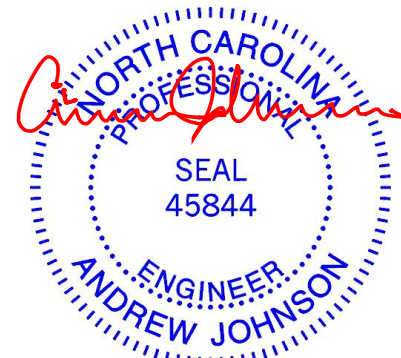
BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-5-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 1=59/2-4-10, 3=59/2-4-10
Max Horz 1=-12(LC 8)
Max Uplift 1=-6(LC 12), 3=-6(LC 13)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) 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
- Gable requires continuous bottom chord bearing.
- 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



March 12, 2019

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A MiTek Affiliate

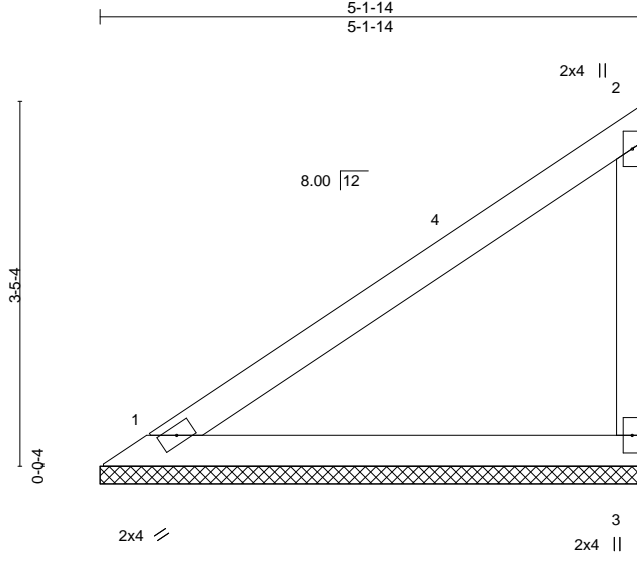
818 Soundside Road
Edenton, NC 27932

Job 20137	Truss V7	Truss Type VALLEY	Qty 1	Ply 1	140.1582 A 10x10 CP	I36367036
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84 Components (Dunn), Dunn, NC - 28334,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Mar 11 14:07:34 2019 Page 1

ID:RUSz4LGuFS2C1bODNZWBaZyX6cZ-8QZz_fzVD9ZuqRjtAGRu9_kJDRanOe5eQGQicZzc_Q7



Scale = 1:21.7

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.40	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.25	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00		n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P					Weight: 20 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3

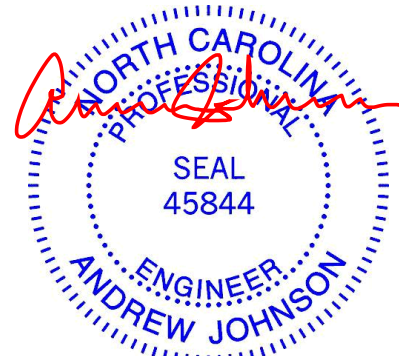
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 5-1-14 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 1=181/5-1-14, 3=181/5-1-14
 Max Horz 1=117(LC 12)
 Max Uplift 3=-72(LC 12)
 Max Grav 1=181(LC 1), 3=193(LC 19)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-5-12 to 3-5-12, Interior(1) 3-5-12 to 5-0-2 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit 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) 3.



March 12, 2019

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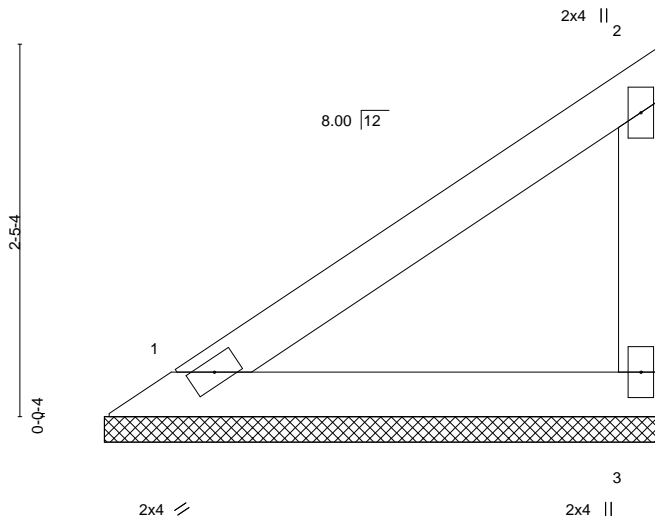
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 Edenton, NC 27932

Job 20137	Truss V8	Truss Type VALLEY	Qty 1	Ply 1	140.1582 A 10x10 CP Job Reference (optional)	136367037
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84 Components (Dunn), Dunn, NC - 28334,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Mar 11 14:07:34 2019 Page 1

ID:RUSz4LGuFS2C1bODNZWbaZyX6cZ-8QZz_fzVD9ZuqRjtAGRu9_kNuRc3Oe5eQGQicZzc_Q7
3-7-14
3-7-14



Scale = 1:15.1

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.17	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.11	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00		n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P					Weight: 14 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

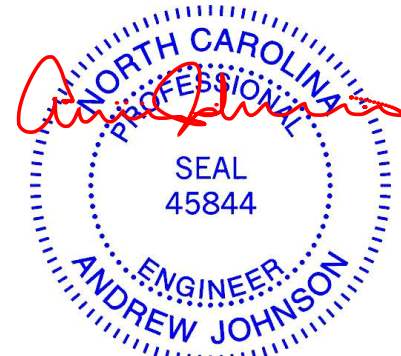
BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-7-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 1=121/3-7-14, 3=121/3-7-14
Max Horz 1=78(LC 12)
Max Uplift 3=-48(LC 12)
Max Grav 1=121(LC 1), 3=129(LC 19)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) 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) Gable requires continuous bottom chord bearing.
- 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit 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) 3.



March 12, 2019

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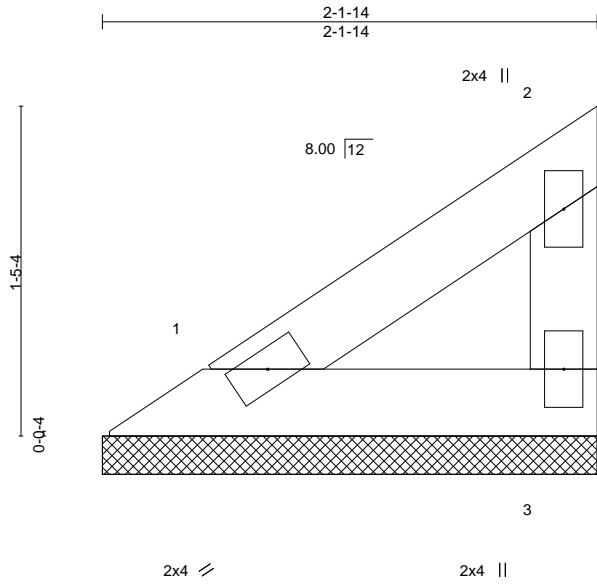
818 Soundside Road
Edenton, NC 27932

Job 20137	Truss V9	Truss Type VALLEY	Qty 1	Ply 1	140.1582 A 10x10 CP Job Reference (optional)	136367038
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84 Components (Dunn), Dunn, NC - 28334,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Mar 11 14:07:35 2019 Page 1

ID:RUSz4LGuFS2C1bODNZWBaZyX6cZ-cc7LB?_8zThISbu3kzy7iBHahrza75L0ewAF8?zc_Q6



Scale = 1:10.0

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.04	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.02	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00		n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P						Weight: 7 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3

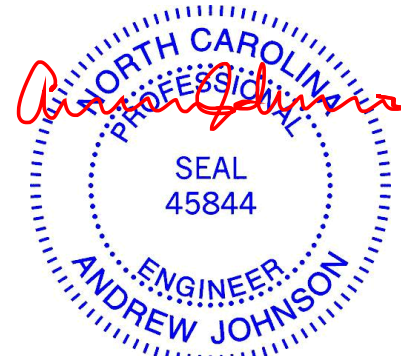
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 2-1-14 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 1=61/2-1-14, 3=61/2-1-14
 Max Horz 1=39(LC 12)
 Max Uplift 3=-24(LC 12)
 Max Grav 1=61(LC 1), 3=65(LC 19)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) 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) Gable requires continuous bottom chord bearing.
- 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit 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) 3.



March 12, 2019

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

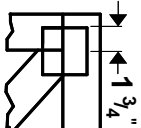
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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.



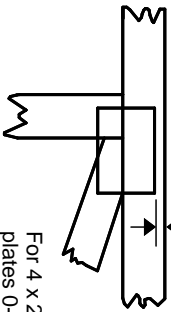
818 Soundside Road
 Edenton, NC 27932

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- 1/16" from outside edge of truss.



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

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

PLATE SIZE

4 X 4

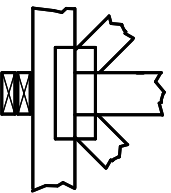
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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



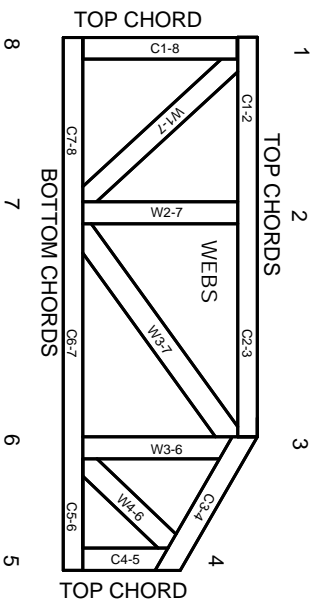
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI 1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System

6-4-8
dimensions shown in ft-in-sixteenths
(Drawings not to scale)



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



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. 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.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. 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.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.