



Trenco

818 Soundside Rd Edenton, NC 27932

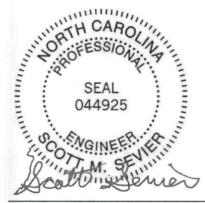
Re: 2100825-2100825A 1393 Walker RD Castio

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: I48491880 thru I48491893

My license renewal date for the state of North Carolina is December 31, 2021.

North Carolina COA: C-0844



October 25,2021

Sevier, Scott

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.

Job	Truss	Truss Type	Qty	Ply	1393 Walker RD Castio
2100825-2100825A	F1	FLOOR	35	1	148491880
					Job Reference (optional)

84 Components (Dunn),

Dunn, NC - 28334

8.520 s Aug 27 2021 MiTek Industries, Inc. Fri Oct 22 13:56:45 2021 Page 1 ID:ZcxtCb2dLGP4z35Y9kn9WHyQtsy-v7lx_k01leP_BVlojR_3vAceJ0kxcWf?GW61u9yQrCG

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

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

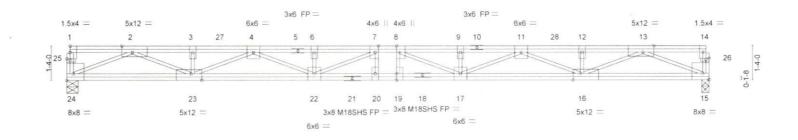
except end verticals.

0-1-8

H - 2-3-12

0-8-8

0-1-8 Scale = 1:43.1





BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP DSS(flat) BOT CHORD 2x4 SP DSS(flat)

WEBS 2x4 SP No.3(flat) *Except*

13-15,2-24,13-16,2-23,11-16,4-23,11-17,4-22,8-17,7-22: 2x4 SP No.2

or 2x4 SPF No.2(flat)

REACTIONS.

(size) 24=0-5-4, 15=0-3-8

Max Grav 24=1206(LC 1), 15=1206(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-4553/0, 3-4=-4553/0, 4-6=-6451/0, 6-7=-6451/0, 7-8=-6715/0, 8-9=-6451/0,

TOP CHORD

9-11=-6451/0, 11-12=-4553/0, 12-13=-4553/0 23-24=0/2579, 22-23=0/5847, 20-22=0/6715, 19-20=0/6715, 17-19=0/6715, 16-17=0/5847, **BOT CHORD**

15-16=0/2579

WEBS

13-15=-2780/0, 2-24=-2780/0, 13-16=0/2170, 2-23=0/2170, 12-16=-349/0, 3-23=-349/0 11-16=-1423/0, 4-23=-1423/0, 11-17=0/716, 4-22=0/716, 8-17=-737/321, 7-22=-737/321

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 3) All plates are MT20 plates unless otherwise indicated.
- 4) All plates are 3x6 MT20 unless otherwise indicated.
- 5) Required 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 300 lb down at 6-0-0, and 300 Ib down at 19-1-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 7) 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

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 15-24=-7, 1-14=-67

Concentrated Loads (lb)

Vert: 27=-300(F) 28=-300(F)



October 25,2021

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Ply Qty 1393 Walker RD Castio Job Truss Truss Type 148491881 2100825-2100825A F1E Floor Supported Gable Job Reference (optional) 8.520 s Aug 27 2021 MiTek Industries, Inc. Fri Oct 22 13:56:48 2021 Page 1 ID:ZcxtCb2dLGP4z35Y9kn9WHyQtsy-Jiz4cm3w2ZnZ2zUNPZYmWpE8IErKp?TRyTKhUUyQrCD 84 Components (Dunn), Dunn, NC - 28334, 0-1-8 Scale = 1:41.9 3x6 FP = 3x3 = 10 11 12 13 14 15 17 18 19 20 43 0 042 23 22 21 41 40 39 37 36 35 34 33 32 31 30 28 27 26 24 3x6 FP = 3x3 = 3x3 = Plate Offsets (X,Y)-- [1:Edge,0-0-12], [42:0-1-8,0-0-12], [43:0-1-8,0-0-12] **PLATES** GRIP LOADING (psf) SPACING-2-0-0 DEFL. in (loc) I/defl L/d 197/144 Plate Grip DOL Vert(LL) 999 MT20 TCLL 40 0 1.00 TC 0.08 n/a n/a BC 0.02 999 TCDL 10.0 Lumber DOL 1 00 Vert(CT) n/a n/a WR 0.00 21 BCLL 0.0 Rep Stress Incr YES 0.03 Horz(CT) n/a n/a FT = 20%F, 11%E Code IRC2015/TPI2014 Weight: 109 lb BCDL 5.0 Matrix-R BRACING-LUMBER-TOP CHORD TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat) Structural wood sheathing directly applied or 6-0-0 oc purlins, BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat) except end verticals 2x4 SP No.3(flat) Rigid ceiling directly applied or 10-0-0 oc bracing. BOT CHORD WEBS 2x4 SP No.3(flat) OTHERS REACTIONS. All bearings 25-1-0. (lb) - Max Grav All reactions 250 lb or less at joint(s) 41, 21, 40, 39, 38, 37, 36, 35, 33, 32, 31, 30, 29, 28, 27, 26, 25, 24, 23, 22 FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 1) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors. 2) All plates are 1.5x4 MT20 unless otherwise indicated. 3) Gable requires continuous bottom chord bearing. 4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web). 5) Gable studs spaced at 1-4-0 oc. 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means. October October

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, cerection and bracing of trusses and truss systems, see ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	1393 Walker RD Castio
2100825-2100825A	F2	FLOOR	1	1	Job Reference (optional)

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

8.520 s Aug 27 2021 MiTek Industries, Inc. Fri Oct 22 13:56:50 2021 Page 1 ID:ZcxtCb2dLGP4z35Y9kn9WHyQtsy-F45q1R4AZA1HHGdlW_aEbEJT11PJHjQkPnpoZMyQrCB

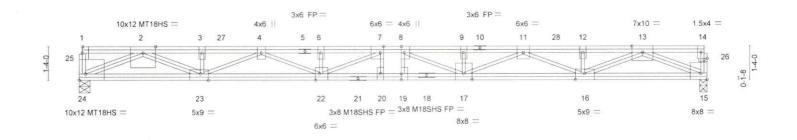
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.

0-8-8

0-1-8 Scale = 1:44.1



	-	00-H0H0				25-1-0						
Plate Offse	ets (X,Y)	[7:0-1-8,Edge], [8:0-3-0,E	dge], [15:Edg	e,0-3-0], [16:	0-4-4,Edge]	25-1-0 , [19:0-3-0,0-0-0], [22:0-2-0,E	Edge]	[23:0-3-	12,Edge], [24	1:Edge,0-3-0], [26:0-1-8	[,0-0-8]
LOADING		SPACING-	1-4-0	CSI.	0.25	DEFL.		(loc)	I/defl >522	L/d	PLATES MT20	GRIP 244/190
TCLL TCDL	40.0 10.0	Plate Grip DOL Lumber DOL	1.00 1.00	TC BC	0.35	Vert(LL) Vert(CT)	-0.57 20 -0.78 20		>380	480 360	M18SHS	244/190
BCLL	0.0 5.0	Rep Stress Incr Code IRC2015/TF	NO PI2014	WB Matrix	0.77 k-S	Horz(CT)	0.10	15	n/a	n/a	MT18HS Weight: 212 lb	244/190 FT = 20%F, 11%E

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP DSS(flat)

BOT CHORD 2x4 SP DSS(flat)

WEBS 2x4 SP No.3(flat)

(size) 24=0-5-4, 15=0-3-8

Max Grav 24=2922(LC 1), 15=1422(LC 1)

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

TOP CHORD 1-24=-416/0, 2-3=-8529/0, 3-4=-8617/0, 4-6=-9553/0, 6-7=-9553/0, 7-8=-9234/0,

8-9=-8391/0, 9-11=-8391/0, 11-12=-5539/0, 12-13=-5507/0

BOT CHORD 23-24=0/5604, 22-23=0/9384, 20-22=0/9234, 19-20=0/9234, 17-19=0/9234, 16-17=0/7328, 15-16=0/2983

13-15=-3260/0, 2-24=-6106/0, 13-16=0/2793, 2-23=0/3238, 12-16=-376/0, 3-23=-1037/0, 11-16=-1954/0, 4-23=-838/0, 11-17=0/1223, 4-22=-290/591, 8-17=-1372/150,

7-22=-566/963, 8-19=-91/262

NOTES-

WEBS

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

- 2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 3) All plates are MT20 plates unless otherwise indicated.
- 4) All plates are 3x6 MT20 unless otherwise indicated.
- 5) Required 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

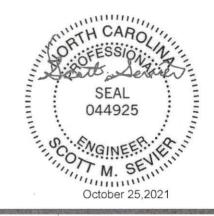
LOAD CASE(S) Standard

Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
 Uniform Loads (plf)

Vert: 15-24=-7, 1-27=-417, 14-27=-67

Concentrated Loads (lb)

Vert: 27=-300 28=-300



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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ANSITPHI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Qty Ply 1393 Walker RD Castio Job Truss Truss Type 148491883 FLOOR GIRDER 2100825-2100825A F3 Job Reference (optional) 8.520 s Aug 27 2021 MiTek Industries, Inc. Fri Oct 22 13:56:50 2021 Page 1
ID:ZcxtCb2dLGP4z35Y9kn9WHyQtsy-F45q1R4AZA1HHGdlW_aEbEJVk1RiHrdkPnpoZMyQrCB 84 Components (Dunn), Dunn. NC - 28334 0-6-0 1-8-4 Scale = 1:14.2 4x6 || 3x6 || 6x6 = 3x6 | 3x6 || 5 2 4 13 12 10 11 3 3x4 = 8 1.5x4 3x6 = 3x6 = [2:0-3-0,Edge], [3:0-3-0,0-0-0], [7:0-1-8,Edge] Plate Offsets (X,Y)--**PLATES** GRIP DEFL. LOADING (psf) SPACING-1-4-0 CSI. in (loc) I/defl L/d 197/144 -0.03 >999 480 MT20 Plate Grip DOL 1 00 TC 0.24 Vert(LL) TCLL 40.0 360 BC 0.41 Vert(CT) -0.05 >999 TCDL 10.0 Lumber DOL 1.00 WB 0.31 Horz(CT) 0.01 6 n/a NO BCLL 0.0 Rep Stress Incr Code IRC2015/TPI2014 Weight: 50 lb FT = 20%F, 11%E Matrix-S BCDL 5.0 BRACING-LUMBER-TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat) BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat) except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing. 2x4 SP No.3(flat) WEBS REACTIONS. (size) 9=0-3-8, 6=0-3-8 Max Grav 9=621(LC 1), 6=510(LC 1) FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-1109/0, 3-4=-1109/0 TOP CHORD 8-9=0/1109, 7-8=0/1109, 6-7=0/1103 **BOT CHORD** 4-6=-1173/0, 2-9=-1176/0 WEBS NOTES-1) Unbalanced floor live loads have been considered for this design. 2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors. 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means. LOAD CASE(S) Standard 1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf) Vert: 6-9=-7, 1-5=-67 Concentrated Loads (lb) Vert: 10=-143 11=-122 12=-122 13=-200 SEAL M. SE Octob October 25,2021 MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.



Job	Truss	Truss Type	Qty	Ply	1393 Walker RD Castio
2100825-2100825A	F4	FLOOR	1	1	140491004
					Job Reference (optional)

84 Components (Dunn),

Dunn, NC - 28334

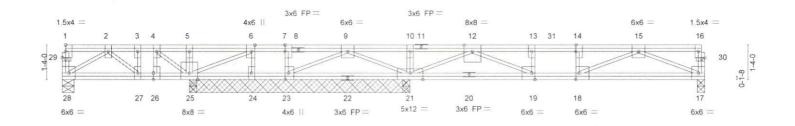
8.520 s Aug 27 2021 MiTek Industries, Inc. Fri Oct 22 13:56:52 2021 Page 1 ID:ZcxtCb2dLGP4z35Y9kn9WHyQtsy-BTDbS76Q5oH?Wan8ePcihfOg8r3alaa1t5lueFyQrC9

0-1-8



1-7-4

0-1-8 Scale = 1:43.1



1		4-11-12	9-3-8		13-7-4					25-1-0		
-		1-11-12	4-3-12		4-3-12					11-5-12		
Plate Offs	sets (X,Y)	[6:0-3-0,Edge], [7:0-3-0,0 [30:0-1-8,0-0-8]	0-0-0], [14:0-3-0),0-0-0], [18:	0-1-8,Edge], [1	9:0-1-8,Edge],	21:0-6-	0,Edge]	[23:0-3-	0,Edge], [26:0	0-3-0,0-0-0], [29:0-1-8,	0-0-8],
LOADING	G (psf)	SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.95	Vert(LL)	-0.09	19-21	>999	480	MT20	197/144
TCDL	10.0	Lumber DOL	1.00	BC	0.58	Vert(CT)	-0.12	19-21	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.98	Horz(CT)	0.01	17	n/a	n/a		
BCDL	5.0	Code IRC2015/TF	PI2014	Matri	x-S						Weight: 198 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)

BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)

2x4 SP No.3(flat)

BRACING-TOP CHORD

BOT CHORD

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

except end verticals.

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

REACTIONS. All bearings 8-7-8 except (jt=length) 28=0-5-8, 17=0-3-8

(Ib) - Max Grav All reactions 250 lb or less at joint(s) except 28=906(LC 3), 17=642(LC 4), 25=1624(LC 3), 25=1618(LC 1), 23=899(LC 3), 24=867(LC 7), 21=3597(LC 7), 21=3596(LC 1)

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

TOP CHORD

1-28=-274/0, 2-3=-677/0, 3-4=-677/0, 4-5=0/339, 5-6=0/371, 6-7=0/496, 7-9=0/496,

9-10=0/2262, 10-12=0/2262, 12-13=-2217/0, 13-14=-2217/0, 14-15=-2217/0

BOT CHORD

27-28=0/939, 26-27=0/677, 25-26=0/677, 24-25=-496/0, 23-24=-496/0, 21-23=-440/0,

19-21=0/1177, 18-19=0/2217, 17-18=0/1306

WEBS

5-25=-914/0, 10-21=-1120/0, 2-28=-1091/0, 4-25=-1278/0, 2-27=-366/0, 9-21=-2136/0, 9-23=-359/0, 6-24=-838/0, 7-23=-765/0, 15-17=-1407/0, 12-21=-3746/0, 15-18=0/1062,

12-19=0/1158, 13-19=-604/0, 14-18=-311/0

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 3) All plates are 3x6 MT20 unless otherwise indicated.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 5) CAUTION. Do not erect truss backwards.

LOAD CASE(S) Standard

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 17-28=-7, 1-31=-417, 16-31=-67



October 25,2021

Ply 1393 Walker RD Castio Truss Type Qty Job Truss 148491885 2 2100825-2100825A F5 FLOOR Job Reference (optional)

8.520 s Aug 27 2021 MiTek Industries, Inc. Fri Oct 22 13:56:53 2021 Page 1
ID:ZcxtCb2dLGP4z35Y9kn9WHyQtsy-gfnzfT73s5PspkMKB67xDsx_HFQ0U49A5I2SAhyQrC8 Dunn. NC - 28334 84 Components (Dunn) 0-1-8 0-1-8 Scale = 1:44.1 2-3-12 0-8-8 3x6 FP = 3x6 FP = 7x10 = 6x6 = 4x6 || 6x6 = 1.5x4 = 10x12 MT18HS = 4x6 || 11 13 14 3 27 4 5 6 8 9 10 28 12 2 25 15 24 23 22 21 20 19 18 17 16 3x8 M18SHS FP = 3x8 M18SHS FP 5x9 8x8 = 5x9 = 10x12 MT18HS = 8x8 = 6x6 = [7:0-1-8,Edge], [8:0-3-0,Edge], [15:Edge,0-3-0], [16:0-4-4,Edge], [19:0-3-0,0-0-0], [22:0-2-0,Edge], [23:0-3-12,Edge], [24:Edge,0-3-0], [26:0-1-8,0-0-8] Plate Offsets (X,Y)-in (loc) **PLATES** DEFL. L/d LOADING (psf) SPACING-1-4-0 CSI 480 MT20 244/190 0.35 Vert(LL) -0.57 20-22 >522 Plate Grip DOL 1.00 TC TCLL 40 0 -0.78 20-22 360 M18SHS 244/190 BC 0.56 Vert(CT) >380 TCDL 10.0 Lumber DOL 1.00 WB 0.77 Horz(CT) 0.10 15 n/a MT18HS 244/190 NO BCLL 0.0 Rep Stress Incr Code IRC2015/TPI2014 Weight: 212 lb FT = 20%F, 11%E Matrix-S BCDL 5.0 BRACING-LUMBER-Structural wood sheathing directly applied or 6-0-0 oc purlins, TOP CHORD TOP CHORD 2x4 SP DSS(flat) BOT CHORD 2x4 SP DSS(flat) except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing **BOT CHORD** 2x4 SP No.3(flat) WEBS REACTIONS. (size) 24=0-3-8, 15=0-3-8 Max Grav 24=2922(LC 1), 15=1422(LC 1) FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown 1-24=-416/0, 2-3=-8529/0, 3-4=-8617/0, 4-6=-9553/0, 6-7=-9553/0, 7-8=-9234/0, TOP CHORD 8-9=-8391/0, 9-11=-8391/0, 11-12=-5539/0, 12-13=-5507/0 23-24=0/5604, 22-23=0/9384, 20-22=0/9234, 19-20=0/9234, 17-19=0/9234, 16-17=0/7328, **BOT CHORD** 15-16=0/2983 13-15=-3260/0, 2-24=-6106/0, 13-16=0/2793, 2-23=0/3238, 12-16=-376/0, 3-23=-1037/0, WEBS 11-16=-1954/0, 4-23=-838/0, 11-17=0/1223, 4-22=-290/591, 8-17=-1372/150, 7-22=-566/963, 8-19=-91/262 1) Unbalanced floor live loads have been considered for this design. 2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors. 3) All plates are MT20 plates unless otherwise indicated. 4) All plates are 3x6 MT20 unless otherwise indicated. ORTH CA 5) Required 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means. LOAD CASE(S) Standard 1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 15-24=-7, 1-27=-417, 14-27=-67

Concentrated Loads (lb)

Vert: 27=-300 28=-300



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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20801



Job Truss Truss Type Qty Ply 1393 Walker RD Castio 148491886 Floor 2 2100825-2100825A F6 Job Reference (optional) 84 Components (Dunn), Dunn, NC - 28334 8.520 s Aug 27 2021 MiTek Industries, Inc. Fri Oct 22 13:56:54 2021 Page 1 ID:ZcxtCb2dLGP4z35Y9kn9WHyQtsy-8sLLtp7hdPXjmuxWlqeAm4UACfsODjdJKPn?i7yQrC7 1-8-12 2 3x3 = 3 3x3 || 1 3x3 || Scale = 1.9.4 3x6 = 3x6 = LOADING (psf) SPACING-2-0-0 CSI. DEFL. in I/defl L/d **PLATES** GRIP TCLL 40.0 Plate Grip DOL 1.00 TC 0.21 Vert(LL) 0.00 5 480 MT20 197/144 TCDL 10.0 Lumber DOL 1.00 BC 0.17 Vert(CT) -0.03 4-5 >999 360 BCLL 0.0 Rep Stress Incr YES WB 0.05 Horz(CT) 0.00 4 n/a n/a BCDL 5.0 Code IRC2015/TPI2014 Matrix-P Weight: 24 lb FT = 20%F, 11%E BRACING-LUMBER-TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat) Structural wood sheathing directly applied or 3-11-8 oc purlins, TOP CHORD BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat) except end verticals Rigid ceiling directly applied or 10-0-0 oc bracing. BOT CHORD WEBS 2x4 SP No.3(flat)

REACTIONS. (size) 5=0-3-8. 4=0-3-8

Max Grav 5=204(LC 1), 4=204(LC 1)

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

NOTES-

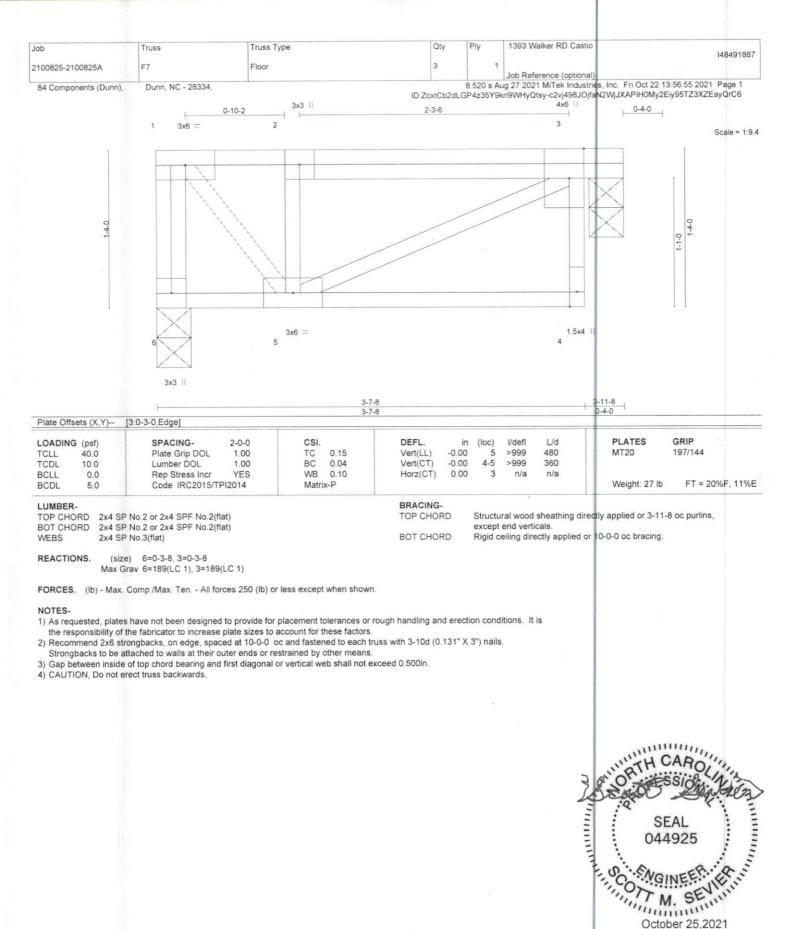
- As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is
 the responsibility of the fabricator to increase plate sizes to account for these factors.
- Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.
 Strongbacks to be attached to walls at their outer ends or restrained by other means.



WARNING - Verily design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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October 25,2021

Job Truss Truss Type Qty Ply 1393 Walker RD Castio 148491888 2100825-2100825A F8 Floor Job Reference (optional) 84 Components (Dunn), Dunn. NC - 28334 8.520 s Aug 27 2021 MiTek Industries, Inc. Fri Oct 22 13:56:55 2021 Page 1 ID.ZcxtCb2dLGP4z35Y9kn9WHyQtsy-c2vj498JOjfaN2WjJXAPIH0MN2CCy8PTZ3XZEayQrC61-7-0 0-7-8 Scale = 1:10.9 3x3 = 3x3 || 4x6 || 1 3x3 || 2 3 4 1-1-0 1.5x4 || 7 3x4 = 1.5x4 II 3x6 = 5-0-8 Plate Offsets (X,Y)-[4:0-3-0,Edge], [5:Edge,0-0-12], [6:0-1-8,Edge] LOADING (psf) SPACING-2-0-0 CSI DEFL in (loc) l/defl L/d **PLATES** GRIP Plate Grip DOL 1.00 0.18 -0.01 5-6 >999 480 197/144 TCLL 400 TC Vert(LL) MT20 BC -0.01 0.13 Vert(CT) >999 360 TCDL 10.0 Lumber DOL 1.00 5-6 WB 0.15 -0.00 BCLL 0.0 Rep Stress Incr YES Horz(CT) n/a n/a Code IRC2015/TPI2014 Weight: 34 lb FT = 20%F, 11%E BCDL Matrix-S 5.0 LUMBER-BRACING-TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat) TOP CHORD Structural wood sheathing directly applied or 5-4-8 oc purlins, BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat) except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing 2x4 SP No.3(flat) **BOT CHORD** WEBS REACTIONS. (size) 8=0-3-8, 4=0-3-8

Max Grav 8=267(LC 1), 4=267(LC 1)

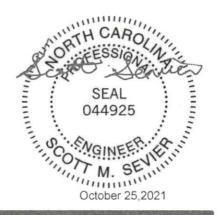
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-277/0, 3-4=-279/0 BOT CHORD 7-8=0/277, 6-7=0/277 WEBS 4-6=0/308, 2-8=-335/0

NOTES-

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

- 2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 4) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in
- 5) CAUTION, Do not erect truss backwards.



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This knot inductable Mile Reference Age mile 748 or Mile 200 BEPORE 056.

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/TPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Qty Job Truss Truss Type Ply 1393 Walker RD Castid 148491889 2100825-2100825A F8E Floor Supported Gable Job Reference (optional 8.520 s Aug 27 2021 MiTek Industries, Inc. Fri Oct 22 13:56:56 2021 Page 1 ID:ZcxtCb2dLGP4z35Y9kn9WHyQtsy-4ES5HV9x90dR?B5vtFherVZYnSaGhdTcojG6n0yQrC5 84 Components (Dunn), Dunn, NC - 28334 Scale = 1:10.8 3x3 || 3x6 || 215x4 3 1 5×4 || 1 3x3 II 10 9 8 11 1.5x4 3x3 || 1.5x4 1.5x4 || 1.5x4 5-0-8 Plate Offsets (X,Y)--[7:Edge,0-0-12] 2-0-0 PLATES GRIP LOADING (psf) SPACING-CSI. DEFL. (loc) I/defl L/d 197/144 TC BC 0.08 -0.00 90 MT20 TCLL 40.0 Plate Grip DOL 1.00 Vert(LL) 5 n/r 0.02 -0.00 5 90 TCDL 10.0 Lumber DOL 1 00 Vert(CT) n/r WR 0.03 Horz(CT) 0.00 BCLL 0.0 Rep Stress Incr YES n/a n/a FT = 20%F, 11%E Code IRC2015/TPI2014 Weight: 27 lb BCDL 5.0 Matrix-R BRACING-LUMBER-TOP CHORD Structural wood sheathing directly applied or 5-4-8 oc purlins, TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat) **BOT CHORD** 2x4 SP No.2 or 2x4 SPF No.2(flat) except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing. **BOT CHORD** WEBS 2x4 SP No.3(flat) OTHERS 2x4 SP No.3(flat) REACTIONS. All bearings 5-4-8. (lb) - Max Grav All reactions 250 lb or less at joint(s) 11, 7, 10, 9, 8 FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. NOTES-1) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors. 2) Gable requires continuous bottom chord bearing. 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web). 4) Gable studs spaced at 1-4-0 oc. 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means. 6) CAUTION, Do not erect truss backwards.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, cerction and bracing of trusses and truss systems, see ______ANTIFPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



October O

Job Truss Type Qty Ply 1393 Walker RD Castio Truss 148491890 Floor 5 2100825-2100825A F9 Job Reference (optional) 84 Components (Dunn). Dunn, NC - 28334 8.520 s Aug 27 2021 MiTek Industries, Inc. Fri Oct 22 13:56:56 2021 Page 1 ID.ZcxtCb2dLGP4z35Y9kn9WHyQtsy-4ES5HV9x90oR?B5vtFherVZYNSZ4hcCcojG6n0yQrC5 1-6-9 H +Scale = 1:10.8 3x6 = 1 1.5x4 || 2 3x3 = 3 1.5x4 4 1.5x4 = 3x6 = 3x6 = 3x3 | Plate Offsets (X,Y)--[1:Edge,0-0-12], [8:0-1-8,0-0-12] LOADING (psf) SPACING-CSI. DEFL. (loc) I/defl L/d **PLATES** GRIP TCLL 40.0 Plate Grip DOL 1.00 TC 0.10 Vert(LL) -0.00 6 >999 480 MT20 197/144 TCDL 10.0 Lumber DOL 1.00 BC 0.09 Vert(CT) -0.01 6-7 >999 360 BCLL 0.0 Rep Stress Incr YES WB 0.11 Horz(CT) 0.00 5 n/a n/a FT = 20%F, 11%E BCDL 5.0 Code IRC2015/TPI2014 Matrix-P Weight: 32 lb BRACING-LUMBER-Structural wood sheathing directly applied or 5-3-4 oc purlins, TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat) TOP CHORD BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat) except end verticals. 2x4 SP No.3(flat) BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. **WEBS**

REACTIONS.

(size) 5=0-3-8, 7=0-5-8

Max Grav 5=184(LC 1), 7=180(LC 1)

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

NOTES

- As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is
 the responsibility of the fabricator to increase plate sizes to account for these factors.
- Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.
 Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 3) CAUTION, Do not erect truss backwards.

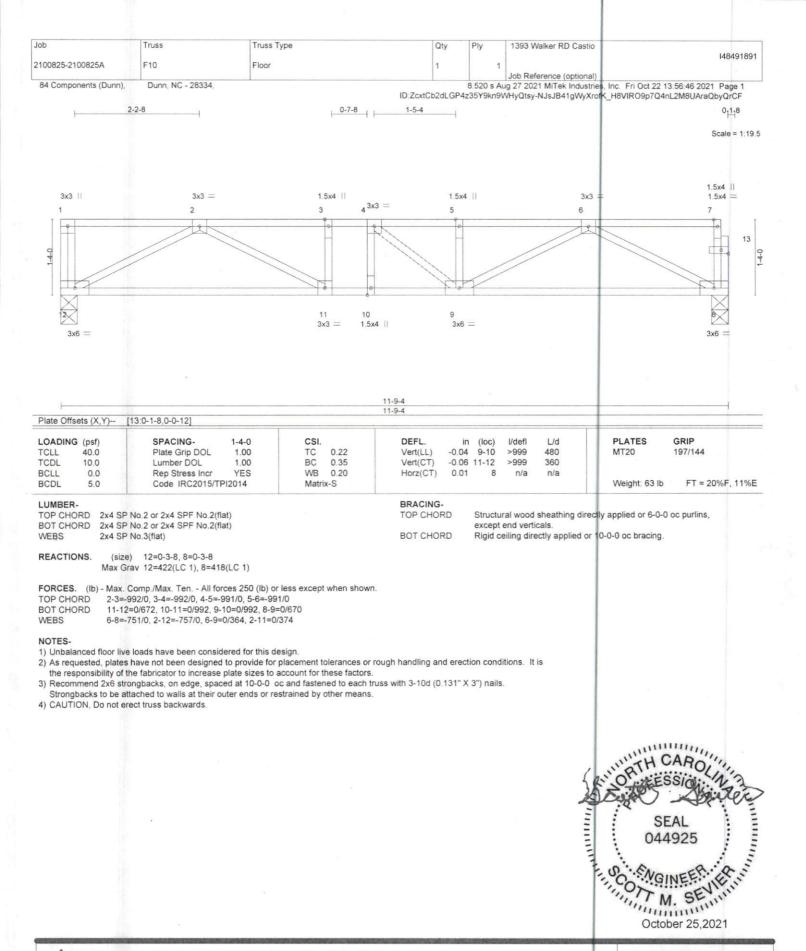


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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 property incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





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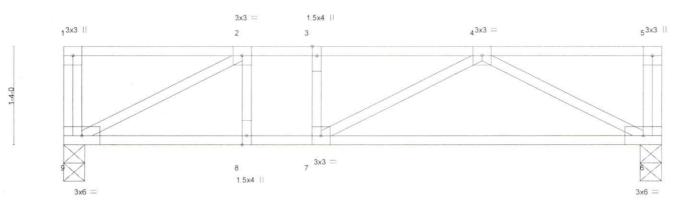
ANSITPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty 1393 Walker RD Castio 148491892 2100825-2100825A F11 Floor Job Reference (optional) 84 Components (Dunn), Dunn, NC - 28334 8.520 s Aug 27 2021 MiTek Industries, Inc. Fri Oct 22 13:56:46 2021 Page 1 ID:ZcxtCb2dLGP4z35Y9kn9WHyQtsy-NJsJB41gWyXrofK_H8VIRO9o?Q5TL3M8UAraQbyQrCF

0-10-0

Scale = 1:15.2



						8-2-8 8-2-8						
LOADING	G (psf)	SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.29	Vert(LL)	-0.04	6-7	>999	480	MT20	197/144
TCDL	10.0	Lumber DOL	1.00	BC	0.30	Vert(CT)	-0.08	6-7	>999	360	(DSEMMATSACS	
BCLL	0.0	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.01	6	n/a	n/a		
BCDL	5.0	Code IRC2015/TI	PI2014	Matri	x-S						Weight: 45 lb	FT = 20%F, 11%E

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat) BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)

WEBS 2x4 SP No.3(flat)

(size) 9=0-3-8, 6=0-3-8

Max Grav 9=292(LC 1), 6=292(LC 1)

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

2-2-8

TOP CHORD 2-3=-461/0, 3-4=-461/0

BOT CHORD 8-9=0/461, 7-8=0/461, 6-7=0/421 WEBS

4-6=-474/0, 2-9=-517/0

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



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

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

except end verticals.

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MIL-74.7 rev. \$19.020 BEFORE USE.

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Job Truss Truss Type Qty Ply 1393 Walker RD Castio 148491893 2100825-2100825A F12 Floor Supported Gable 1 Job Reference (optional) Dunn, NC - 28334 8.520 s Aug 27 2021 MiTek Industries Inc. Fri Oct 22 13:56:47 2021 Page 1 84 Components (Dunn), ID:ZcxtCb2dLGP4z35Y9kn9WHyQtsy-rVQiPQ2IHFfQpvArs0X_bh01qVB4YDIjqb8y1yQrCE 07178 Scale = 1:24.6 3x3 || 12 11 16 13 24 23 22 17 3x3 = 3x3 || 14-9-8 14-9-8 Plate Offsets (X,Y)-- [1:Edge,0-0-12], [25:0-1-8,0-0-12] PLATES GRIP LOADING (psf) SPACING-CSI. DEFL. I/defl L/d 2-0-0 in (loc) 197/144 Plate Grip DOI 1.00 0.08 Vert(LL) n/a 999 MT20 TCLL 40.0 TC n/a BC 0.01 Vert(CT) 999 TCDL 10.0 1.00 n/a n/a Lumber DOL Rep Stress Incr YES WB 0.03 Horz(CT) 0.00 13 n/a n/a RCII 00 Weight: 66 lb FT = 20%F, 11%E Code IRC2015/TPI2014 Matrix-R BCDL 5.0 BRACING-LUMBER-Structural wood sheathing directly applied or 6-0-0 oc purlins, 2x4 SP No.2 or 2x4 SPF No.2(flat) TOP CHORD TOP CHORD BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat) except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing 2x4 SP No.3(flat) WEBS 2x4 SP No.3(flat) **OTHERS** REACTIONS. All bearings 14-9-8. (lb) - Max Grav All reactions 250 lb or less at joint(s) 24, 13, 23, 22, 21, 20, 19, 18, 17, 16, 15, 14 FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. NOTES-1) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors. 2) All plates are 1.5x4 MT20 unless otherwise indicated 3) Gable requires continuous bottom chord bearing. 4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web). 5) Gable studs spaced at 1-4-0 oc. 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means. 7) CAUTION, Do not erect truss backwards. Od4-October 25,202

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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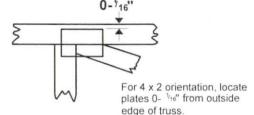


Symbols

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.



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

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

PLATE SIZE

 4×4

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/TPI1: National Design Specification for Metal

Plate Connected Wood Truss Construction.

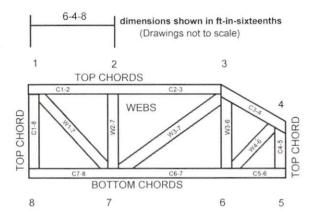
DSB-89: BCSI:

Design Standard for Bracing.

Building Component Safety Information, Guide to Good Practice for Handling.

Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020



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.
- 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.
- 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.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.



Trenco

818 Soundside Rd Edenton, NC 27932

Re: 2100826-2100826A 1393 Walker RD Castio

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: I48491789 thru I48491815

My license renewal date for the state of North Carolina is December 31, 2021.

North Carolina COA: C-0844

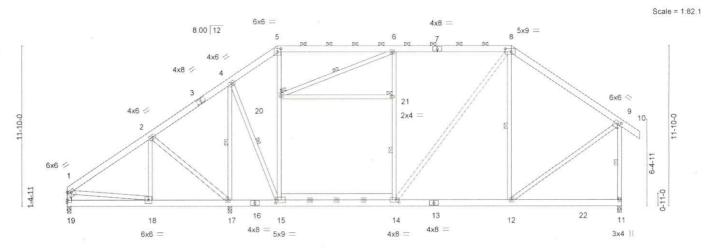


October 25,2021

Sevier, Scott

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.





	6-2-10	12-1-12	15-7-15	24-4-8		33-1-1		41-3-0	
	6-2-10	5-11-2	3-6-3	8-8-9		8-8-9	1	8-1-15	
fsets (X,Y)	[1:0-2-12,0-2-0], [5:0-3-4	,0-3-0], [8:0-5-	8,0-2-12], [9:0-	-2-8,0-2-8], [14:0-2-8,0-2-0],	[15:0-1-12,0-2-8	3]			STREET,
G (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
20.0	Plate Grip DOL	1.15	TC (0.61 Vert(LL)	-0.19 12-14	>999	240	MT20	197/144
10.0	Lumber DOL	1.15	BC (0.96 Vert(CT)	-0.37 12-14	>929	180		
0.0 *	Rep Stress Incr	YES	WB (0.79 Horz(CT)	0.04 11	n/a	n/a		
10.0	Code IRC2015/T	PI2014	Matrix-	MS Attic	-0.09 14-15	1161	360	Weight: 399 lb	FT = 20%
	G (psf) 20.0 10.0 0.0 *	G (psf) SPACING- 20.0 Plate Grip DOL 10.0 Lumber DOL 0.0 Rep Stress Incr	6-2-10 5-11-2 Sets (X,Y)- [1:0-2-12,0-2-0], [5:0-3-4,0-3-0], [8:0-5-1] G (psf) SPACING- 2-0-0 20.0 Plate Grip DOL 1.15 10.0 Lumber DOL 1.15 Rep Stress Incr YES	General Sets (X,Y)- General Sets (X,Y)- 5-11-2 3-6-3 G (psf) SPACING- 2-0-0 CSI. 20.0 Plate Grip DOL 1.15 TC 10.0 Lumber DOL 1.15 BC 0.0 Rep Stress Incr YES WB	General Sets (X,Y) General S	6-2-10 5-11-2 3-6-3 8-8-9 sets (X,Y) [1:0-2-12,0-2-0], [5:0-3-4,0-3-0], [8:0-5-8,0-2-12], [9:0-2-8,0-2-8], [14:0-2-8,0-2-0], [15:0-1-12,0-2-6] G (psf) SPACING- 2-0-0 CSI. DEFL. in (loc) 20.0 Plate Grip DOL 1.15 TC 0.61 Vert(LL) -0.19 12-14 10.0 Lumber DOL 1.15 BC 0.96 Vert(CT) -0.37 12-14 0.0 Rep Stress Incr YES WB 0.79 Horz(CT) 0.04 11	6-2-10 5-11-2 3-6-3 8-8-9 8-8-9 sets (X,Y)- [1:0-2-12,0-2-0], [5:0-3-4,0-3-0], [8:0-5-8,0-2-12], [9:0-2-8,0-2-8], [14:0-2-8,0-2-0], [15:0-1-12,0-2-8] G (psf) SPACING- 2-0-0 CSI. DEFL. in (loc) I/defl 20.0 Plate Grip DOL 1.15 TC 0.61 Vert(LL) -0.19 12-14 >999 10.0 Lumber DOL 1.15 BC 0.96 Vert(CT) -0.37 12-14 >929 0.0 Rep Stress Incr YES WB 0.79 Horz(CT) 0.04 11 n/a	6-2-10 5-11-2 3-6-3 8-8-9 8-8-9 sets (X,Y) [1:0-2-12,0-2-0], [5:0-3-4,0-3-0], [8:0-5-8,0-2-12], [9:0-2-8,0-2-8], [14:0-2-8,0-2-0], [15:0-1-12,0-2-8] G (psf) SPACING- 2-0-0 CSI. DEFL. in (loc) /defl L/d 20.0 Plate Grip DOL 1.15 TC 0.61 Vert(LL) -0.19 12-14 >999 240 10.0 Lumber DOL 1.15 BC 0.96 Vert(CT) -0.37 12-14 >929 180 0.0 * Rep Stress Incr YES WB 0.79 Horz(CT) 0.04 11 n/a n/a	6-2-10 5-11-2 3-6-3 8-8-9 8-8-9 8-1-15 sets (X,Y) [1:0-2-12,0-2-0], [5:0-3-4,0-3-0], [8:0-5-8,0-2-12], [9:0-2-8,0-2-8], [14:0-2-8,0-2-0], [15:0-1-12,0-2-8] G (psf) SPACING- 2-0-0 CSI. DEFL. in (loc) I/defl L/d PLATES 20.0 Plate Grip DOL 1.15 TC 0.61 Vert(LL) -0.19 12-14 >999 240 MT20 10.0 Lumber DOL 1.15 BC 0.96 Vert(CT) -0.37 12-14 >929 180 0.0 * Rep Stress Incr YES WB 0.79 Horz(CT) 0.04 11 n/a n/a

LUMBER-

WEBS

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

2x4 SP No.3 *Except*

8-14: 2x4 SP No.2 or 2x4 SPF No.2

BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 4-8-14 oc purlins, except end verticals, and 2-0-0 oc purlins (4-10-1 max.): 5-8. Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

2-2-0 oc bracing: 15-17.

WEBS **JOINTS** 1 Row at midpt 1 Brace at Jt(s): 20, 21 4-17, 4-15, 14-21, 8-12, 9-11, 6-20

REACTIONS.

(size) 19=0-3-8, 17=0-3-8, 11=0-3-8

Max Horz 19=366(LC 11)

Max Uplift 19=-28(LC 8), 17=-206(LC 27), 11=-44(LC 8) Max Grav 19=1718(LC 2), 17=574(LC 10), 11=1973(LC 2)

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

1-2=-2310/230, 2-4=-2169/298, 4-5=-2077/312, 5-6=-1720/292, 6-8=-1735/297, TOP CHORD

8-9=-1481/268, 1-19=-1650/191, 9-11=-1856/269

BOT CHORD 18-19=-322/456, 17-18=-270/1856, 15-17=-141/1731, 14-15=-82/1725, 12-14=-79/1136

2-17=-343/222, 4-17=-329/89, 15-20=-106/740, 5-20=-13/798, 14-21=-640/253, 6-21=-527/278, 8-14=-56/1014, 8-12=-513/130, 1-18=-136/1683, 9-12=-34/1398

NOTES-

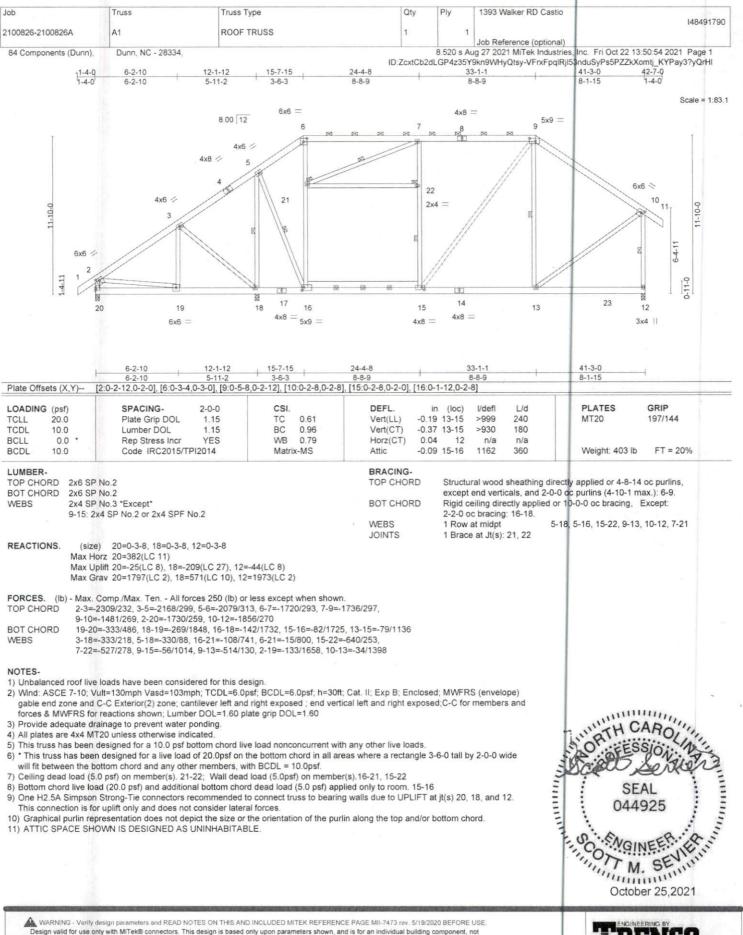
WEBS

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph 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; cantilever left and right exposed; end vertical left and right exposed; 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 4x4 MT20 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, with BCDL = 10.0psf.
- 7) Ceiling dead load (5.0 psf) on member(s). 20-21; Wall dead load (5.0 psf) on member(s).15-20, 14-21
- 8) Bottom chord live load (20.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 14-15
- 9) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at it(s) 19, 17, and 11. 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
- 11) ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MTex® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





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 property incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

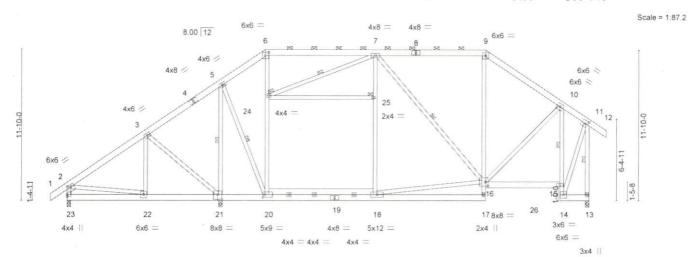
ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information

available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





ID:ZcxtCb2dLGP4z35Y9kn9WHyQtsy-zROJS9qNC1tygxC50fw5ed6lXx7ScB5Un3KVbRyQrHk 12-1-12 5-11-2 15-7-15 33-1-1 38-11-8 41-3-0 42-7-0 2-3-8 1-4-0



		6-2-10	12-1-12 5-11-2	15-7-15 3-6-3	24-4-8 8-8-9	33-1-1		38-11-8 5-10-8	2-3-8	
Plate Offse	ets (X,Y)							5-10-8	2-3-6	
LOADING	(psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc) I/defl	L/d	PLA	ATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC 0.55	Vert(LL)	-0.17 17-18 >999	240	MT	20	197/144
TCDL	10.0	Lumber DOL	1.15	BC 1.00	Vert(CT)	-0.40 17-18 >874	180			
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.73	Horz(CT)	0.11 13 n/a	n/a		101 10 102 20121	
BCDL	10.0	Code IRC2015/TF	12014	Matrix-MS	Attic	-0.08 18-20 1257	360	Wei	ght: 431 lb	FT = 20%

LUMBER-TOP CHORD 2x6 SP No.2 BOT CHORD 2x6 SP No.2 *Except* 10-14: 2x4 SP No.3 WEBS

2x4 SP No.3 "Except"

7-16: 2x4 SP No.2 or 2x4 SPF No.2

BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 4-10-11 oc purlins, except end verticals, and 2-0-0 oc purlins (5-3-0 max.): 6-9. Rigid ceiling directly applied or 10-0-0 oc bracing. Except: 2-2-0 oc bracing: 20-21

1-7-8 oc bracing: 14-15.

1 Row at midpt

1 Row at midpt

10-15 5-21, 5-20, 7-16, 11-13, 7-24

WEBS JOINTS 1 Brace at Jt(s): 24, 25

REACTIONS.

(size) 23=0-3-8, 13=0-3-8, 21=0-3-8

Max Horz 23=382(LC 11)

Max Uplift 23=-37(LC 8), 13=-46(LC 8), 21=-203(LC 12) Max Grav 23=1750(LC 1), 13=1826(LC 1), 21=580(LC 10)

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

2-3=-2195/241, 3-5=-1999/314, 5-6=-1903/319, 6-7=-1570/297, 7-9=-1106/292,

9-10=-1401/285, 10-11=-629/202, 2-23=-1682/265, 11-13=-1901/246

BOT CHORD 22-23=-333/486, 21-22=-267/1741, 20-21=-141/1582, 18-20=-80/1577, 15-16=-95/497,

14-15=-1268/142, 10-15=-1232/186

3-21=-333/218, 5-21=-417/94, 20-24=-115/648, 6-24=-22/707, 18-25=-60/279,

7-25=0/322, 16-18=-85/1560, 7-16=-810/24, 10-16=-59/886, 2-22=-147/1548, 11-14=-137/1458, 9-16=0/369

NOTES-

WEBS

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

- 2) Wind: ASCE 7-10; Vult=130mph 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; cantilever left and right exposed; end vertical left and right exposed; 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) Ceiling dead load (5.0 psf) on member(s). 24-25; Wall dead load (5.0 psf) on member(s). 20-24, 18-25
- 7) Bottom chord live load (20.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 18-20
- 8) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 23, 13, and 21. 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) ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.

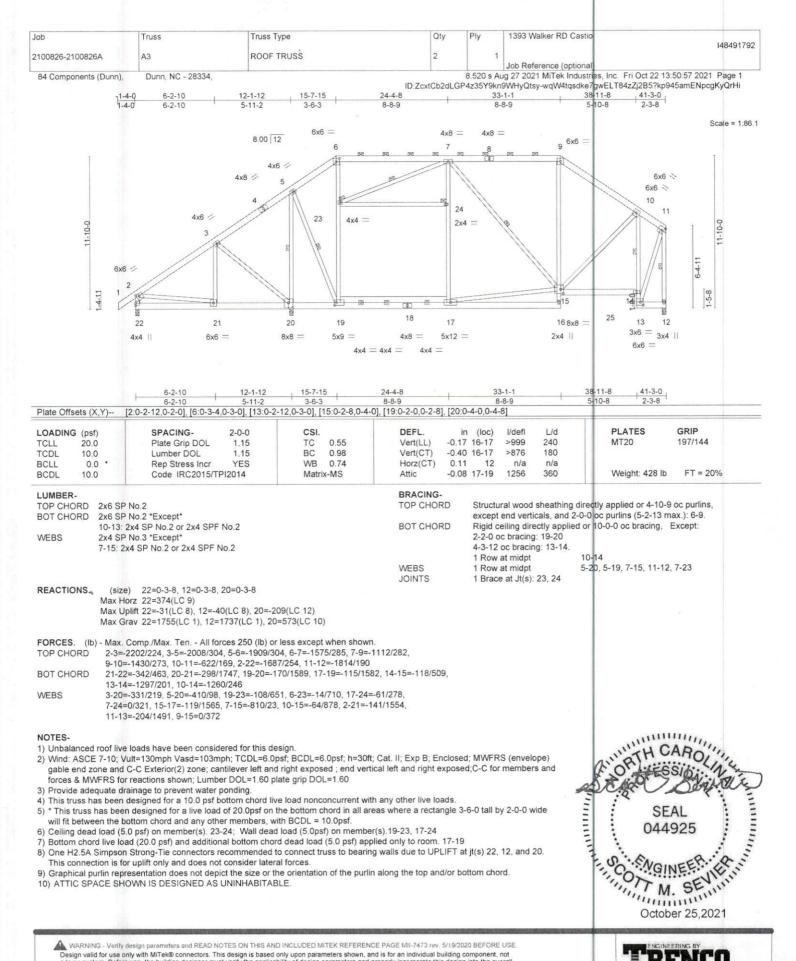


MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE Design valid for use only with MITEK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information

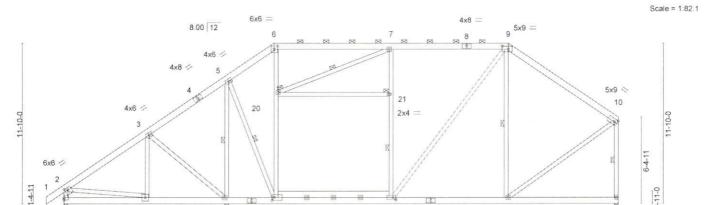
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13

4x8 =

2-2-0 oc bracing: 15-17.

1 Brace at Jt(s): 20, 21

1 Row at midpt

14

4x8 =

		6-2-10	12-1-12	15-7-15	4	24-4-8	0	33-1-1	9	41-3-0	
		6-2-10	5-11-2	3-6-3	1	8-8-9		8-8-9	1	8-1-15	1
Plate Offs	ets (X,Y)	[2:0-2-12,0-2-0], [6:0-3-4	,0-3-0], [9:0-5-8	3,0-2-12], [14	:0-2-8,0-2-0], [15:0-1-12,0-2-8	1				e y surinskimisenti
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.60	Vert(LL)	-0.19 12-14	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.96	Vert(CT)	-0.37 12-14	>930	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.79	Horz(CT)	0.04 11	n/a	n/a		
BCDL	10.0	Code IRC2015/TI	PI2014	Matrix	c-MS	Attic	-0.09 14-15	1162	360	Weight: 399 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

JOINTS

LUMBER-

REACTIONS.

TOP CHORD 2x6 SP No 2 BOT CHORD 2x6 SP No 2

2x4 SP No 3 *Except* WFBS

19

9-14: 2x4 SP No.2 or 2x4 SPF No.2

(size) 19=0-3-8 17=0-3-8 11=0-3-8

Max Horz 19=374(LC 9)

Max Uplift 19=-18(LC 8), 17=-212(LC 27), 11=-38(LC 8) Max Grav 19=1801(LC 2), 17=565(LC 10), 11=1899(LC 2)

18

6x6 =

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

TOP CHORD 2-3=-2314/216, 3-5=-2174/289, 5-6=-2084/299, 6-7=-1724/280, 7-9=-1740/285,

9-10=-1461/251, 2-19=-1733/248, 10-11=-1782/214 **BOT CHORD**

18-19=-342/464, 17-18=-302/1852, 15-17=-172/1737, 14-15=-116/1729, 12-14=-113/1142

B

17

16

15

4x8 = _{5x9} =

3-17=-331/219, 5-17=-325/91, 15-20=-100/743, 6-20=-7/802, 14-21=-639/253, **WEBS** 7-21=-526/279, 9-14=-57/1014, 9-12=-518/155, 2-18=-127/1662, 10-12=-74/1404

NOTES-

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

- 2) Wind: ASCE 7-10; Vult=130mph 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; cantilever left and right exposed; end vertical left and right exposed; 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 4x4 MT20 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, with BCDL = 10.0psf.

 7) Ceiling dead load (5.0 psf) on member(s). 20-21; Wall dead load (5.0psf) on member(s).15-20, 14-21
- 8) Bottom chord live load (20.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 14-15
- 9) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 19, 17, and 11. 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.
- 11) ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.



22

5-17, 5-15, 14-21, 9-12, 10-11, 7-20

11

3x4 ||

12

Structural wood sheathing directly applied or 4-8-13 oc purlins,

except end verticals, and 2-0-0 oc purlins (4-10-2 max.): 6-9. Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

MARNING - Verliy design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



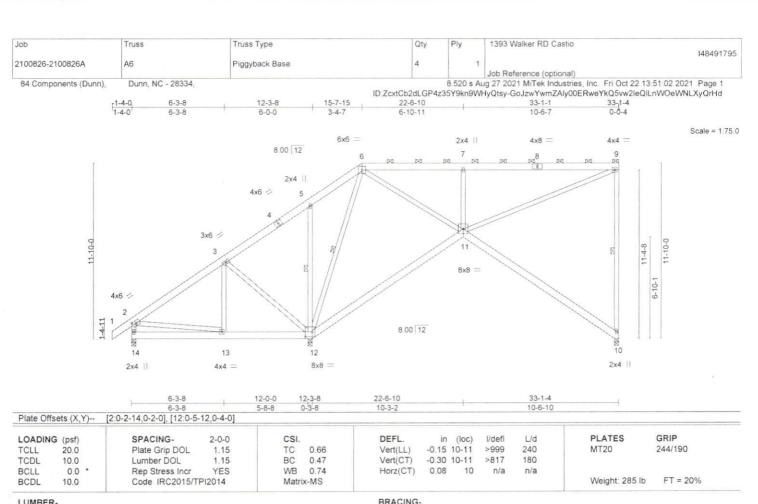
1393 Walker RD Castio Qty Ply Job Truss Type Truss 148491794 2100826-2100826A A5 GABLE Job Reference (optional) 8.520 s Aug 27 2021 MiTek Industries, Inc. Fri Oct 22 13:51:01 2021 Page 1 Dunn. NC - 28334 84 Components (Dunn). ID:ZcxtCb2dLGP4z35Y9kn9WHyQtsy-obmajCv8otd5OsfENw1VtuMn5MK10zmM9_nqp5yQrHe 21-1-4 12-4-8 21-1-0 8-8-9 8-8-9 Scale = 1:68.5 5x9 = 4x6 = 4x4 = 8.00 12 4x6 10-0 39 40 9 8 3x4 = 8x8 = 4x8 = 12-4-8 21-1-4 3-7-15 3-7-15 8-8-9 8-8-12 Plate Offsets (X,Y)--[2:0-5-4,0-2-12], [8:0-4-0,0-4-8] DEFL. **PLATES** GRIP LOADING (psf) SPACING-2-0-0 CSI. in (loc) I/defl L/d -0.07 >999 240 MT20 197/144 Plate Grip DOL 1.15 TC 0.54 Vert(LL) 6-7 TCII 20.0 6-7 BC 0.35 Vert(CT) -0.12 >999 180 TCDL 1.15 10.0 Lumber DOL 0.0 * Rep Stress Incr YES WB 0.40 Horz(CT) 0.00 6 n/a n/a RCII. Code IRC2015/TPI2014 Weight: 374 lb FT = 20% Matrix-MS BCDL 10.0 BRACING-LUMBER-TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, TOP CHORD 2x6 SP No.2 except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 2-5. **BOT CHORD** 2x6 SP No.2 Rigid ceiling directly applied or 10-0-0 oc bracing 2x4 SP No.3 *Except* BOT CHORD **WEBS** 2-7,5-7: 2x4 SP No.2 or 2x4 SPF No.2 WEBS 2-9, 3-7, 5-7, 1-10, 5-6 OTHERS 2x4 SP No.3 REACTIONS. (size) 10=0-3-8, 6=0-3-8 Max Horz 10=92(LC 12) Max Uplift 10=-73(LC 9), 6=-173(LC 9) Max Grav 10=867(LC 2), 6=926(LC 2) FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 1-2=-338/79, 2-3=-449/115, 3-5=-449/115, 1-10=-874/118, 5-6=-761/243 TOP CHORD **BOT CHORD** 7-9=-106/256 WEBS 2-9=-450/138, 2-7=-85/332, 3-7=-617/283, 5-7=-189/736, 1-9=-63/689 NOTES-1) Unbalanced roof live loads have been considered for this design. 2) Wind: ASCE 7-10; Vult=130mph 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 ON ORTH CARO 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry ORTH CARO Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1. 4) Provide adequate drainage to prevent water ponding. 5) All plates are 2x4 MT20 unless otherwise indicated 6) Gable studs spaced at 2-0-0 oc. 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. 044925 000 NGINEER IN SEVILLE OCTOBER 25,2021 8) * 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. 9) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 10 and 6. 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.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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TOP CHORD

BOT CHORD

1 Row at midpt

WEBS

LUMBER-

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

2x4 SP No.3 WEBS

REACTIONS.

(size) 10=0-3-8, 14=0-3-8, 12=0-3-8

Max Horz 14=421(LC 12)

Max Uplift 10=-127(LC 9), 14=-97(LC 24), 12=-259(LC 9) Max Grav 10=597(LC 24), 14=261(LC 19), 12=1952(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown 2-3=-259/374, 3-5=-260/708, 5-6=-112/659, 6-7=-576/183, 7-9=-576/183,

TOP CHORD 9-10=-507/198

13-14=-426/408, 12-13=-280/179, 11-12=-311/60

BOT CHORD WEBS

3-13=0/274, 3-12=-512/218, 5-12=-330/213, 6-12=-1079/255, 6-11=-189/917,

7-11=-652/300, 9-11=-198/617, 2-13=-315/299

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph 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; end vertical left exposed; 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) Bearing at joint(s) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 97 lb uplift at joint 14.
- 8) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 10 and 12. 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



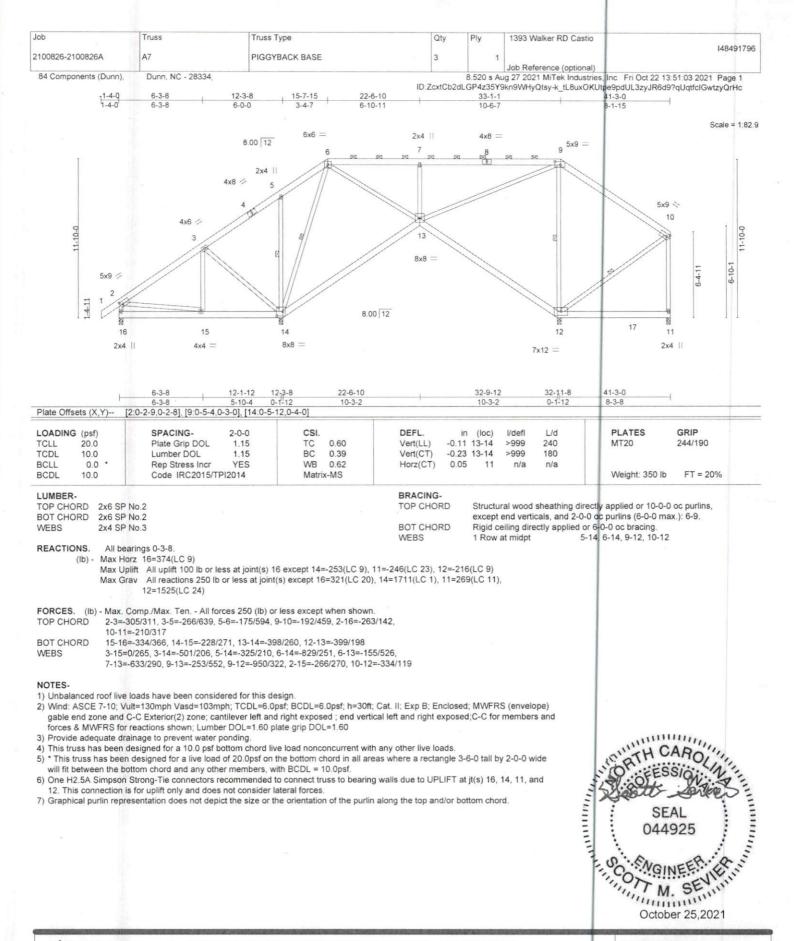
Structural wood sheathing directly applied or 10-0-0 oc purlins,

9-10, 5-12, 6-12

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-9. Rigid ceiling directly applied or 6-0-0 oc bracing.

🛦 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITEK® connectors. This design is based only upon parameters and normal than a reason of the second of the seco





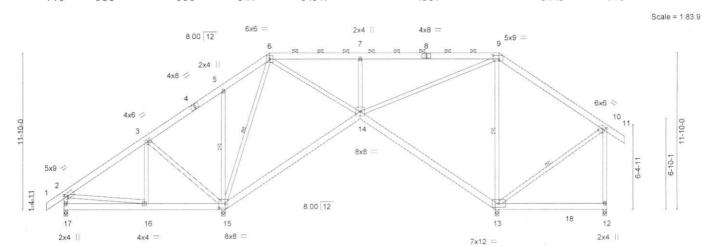
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ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss	Туре		Qty	Ply	1393 Walker RD Castio
N							148491797
2100826-2100826A	A8	Piggy	back Base		2	1	
							Job Reference (optional)
84 Components (Dunn),	Dunn, NC - 28334,					8.520 s Au	ug 27 2021 MiTek Industries, Inc. Fri Oct 22 13:51:04 2021 Page 1
				ID:Zo	xtCb2dLGP4	z35Y9kn9W	HyQtsy-DARjLEx04o?gFJOp22bCVW_GKZL3DH8ory?UPQyQrHb
11-4-0	6-3-8	12-3-8	15-7-15	22-6-10		33-1-1	41-3-0 42-7-0
1-4-0	6-3-8	6-0-0	3-4-7	6-10-11		10-6-7	8-1-15 1-4-0



		6-3-8	12-1-12	12-3-8	22-6-10		32-9-	12	32-11-8	41-3-0	
		6-3-8	5-10-4	0-1-12	10-3-2		10-3	-2	0-1-12	8-3-8	
Plate Offse	ets (X,Y)	[2:0-2-9,0-2-8], [9:0-5-4,0	0-3-0], [10:0	0-2-8,0-2-8], [15	0-5-12,0-4-0]						
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	0.61	Vert(LL)	-0.11 14-1	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.39	Vert(CT)	-0.23 14-1	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.62	Horz(CT)	0.05 1	2 n/a	n/a		
BCDL	10.0	Code IRC2015/Ti	PI2014	Matr	ix-MS					Weight: 353 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

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

WEBS 2x4 SP No.3

REACTIONS. All bearings 0-3-8

(lb) - Max Horz 17=382(LC 11)

Max Uplift All uplift 100 lb or less at joint(s) 17 except 15=-249(LC 9), 12=-219(LC 23), 13=-210(LC 9) Max Grav All reactions 250 lb or less at joint(s) except 17=326(LC 20), 15=1702(LC 1), 12=312(LC 11),

13=1538(LC 24)

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

2-3=-313/309, 3-5=-258/636, 5-6=-167/591, 9-10=-186/468, 2-17=-268/158, TOP CHORD

10-12=-244/290

BOT CHORD 16-17=-325/388, 15-16=-226/278, 14-15=-414/279, 13-14=-407/210 WEBS

3-16=0/265, 3-15=-503/201, 5-15=-325/210, 6-15=-822/245, 6-14=-152/522,

7-14=-634/290, 9-14=-246/553, 9-13=-948/274, 2-16=-278/265, 10-13=-348/141

NOTES-

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

- 2) Wind: ASCE 7-10; Vult=130mph 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; cantilever left and right exposed; end vertical left and right exposed; 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 H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 17, 15, 12, and 13. 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.



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

5-15, 6-15, 9-13, 10-13

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-9.

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

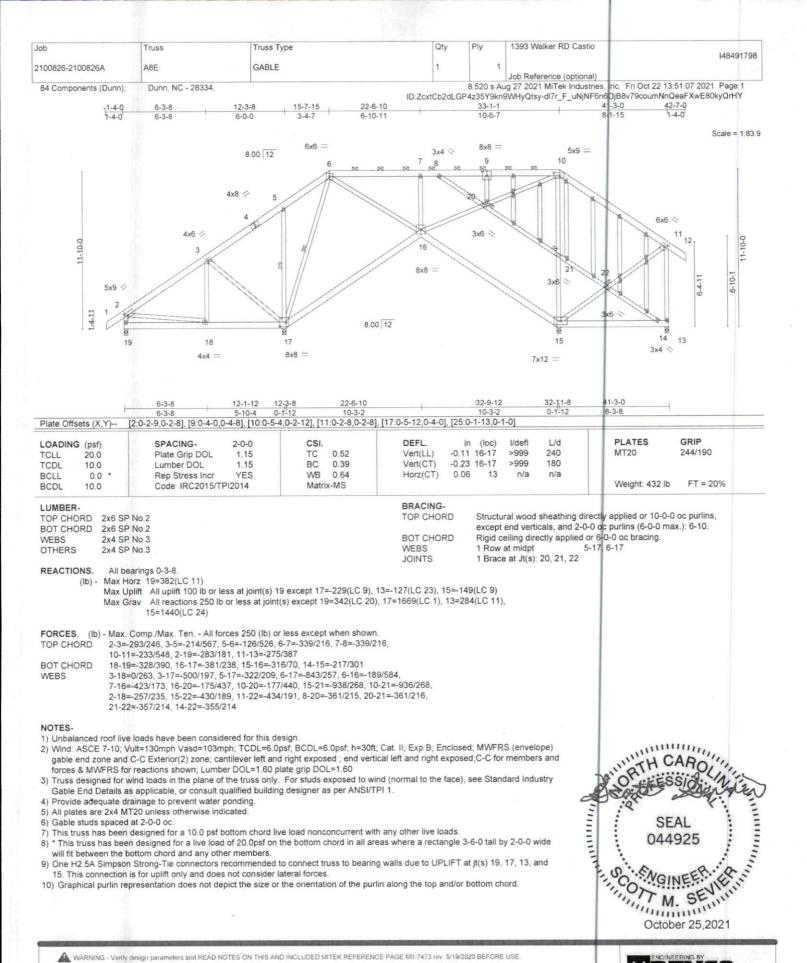
1 Row at midpt

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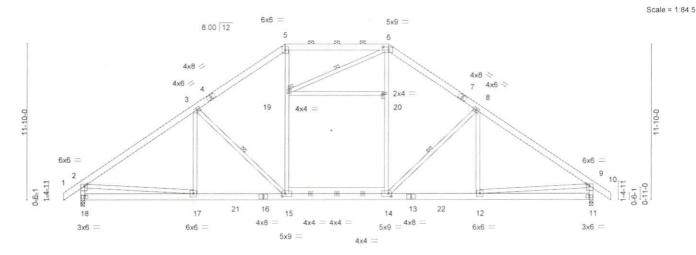


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		8-9-8		15-7-15		23-7-1		30-	5-8		39-3-0	
		8-9-8		6-10-7	T.	7-11-2		6-10	0-7		8-9-8	
Plate Offse	ets (X,Y)	.[2:0-2-8,0-1-12], [6:0-5-4,	,0-2-12], [9:0-2	2-8,0-1-12], [14:0-2-12,0-2	2-8], [15:0-2-12,0-2	2-8]					
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.63	Vert(LL)	-0.20	15-17	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.62	Vert(CT)	-0.27	15-17	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.62	Horz(CT)	0.04	11	n/a	n/a		
BCDL	10.0	Code IRC2015/TF	212014	Matri	x-MS	Attic	-0.13	14-15	690	360	Weight: 352 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

JOINTS

LUMBER-TOP CHORD

REACTIONS.

2x6 SP No.2 BOT CHORD 2x6 SP No.2

2x4 SP No.3 *Except* WEBS

2-18,9-11: 2x4 SP No.2 or 2x4 SPF No.2

(size) 18=0-3-8, 11=0-3-8 Max Horz 18=317(LC 11)

Max Uplift 18=-48(LC 12), 11=-48(LC 13) Max Grav 18=1802(LC 1), 11=1802(LC 1)

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

TOP CHORD

2-3=-2357/191, 3-5=-2011/241, 5-6=-1611/251, 6-8=-2012/241, 8-9=-2357/191,

2-18=-1713/242, 9-11=-1713/242

BOT CHORD 17-18=-262/614, 15-17=-22/2004, 14-15=0/1590, 12-14=0/1858, 11-12=-86/439 **WEBS**

3-15=-567/311, 15-19=-39/705, 5-19=0/737, 14-20=-40/706, 6-20=0/745, 8-14=-566/310,

2-17=0/1493, 9-12=0/1493

NOTES-

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

- 2) Wind: ASCE 7-10; Vult=130mph 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; cantilever left and right exposed; end vertical left and right exposed; 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) Ceiling dead load (5.0 psf) on member(s). 19-20; Wall dead load (5.0 psf) on member(s). 15-19, 14-20

 7) Bottom chord live load (20.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 14-15

- 8) Bearing at joint(s) 18, 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 18 and 11. 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
- 11) ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.



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

except end verticals, and 2-0-0 oc purlins (5-1-14 max.): 5-6.

3-15, 8-14, 6-19

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

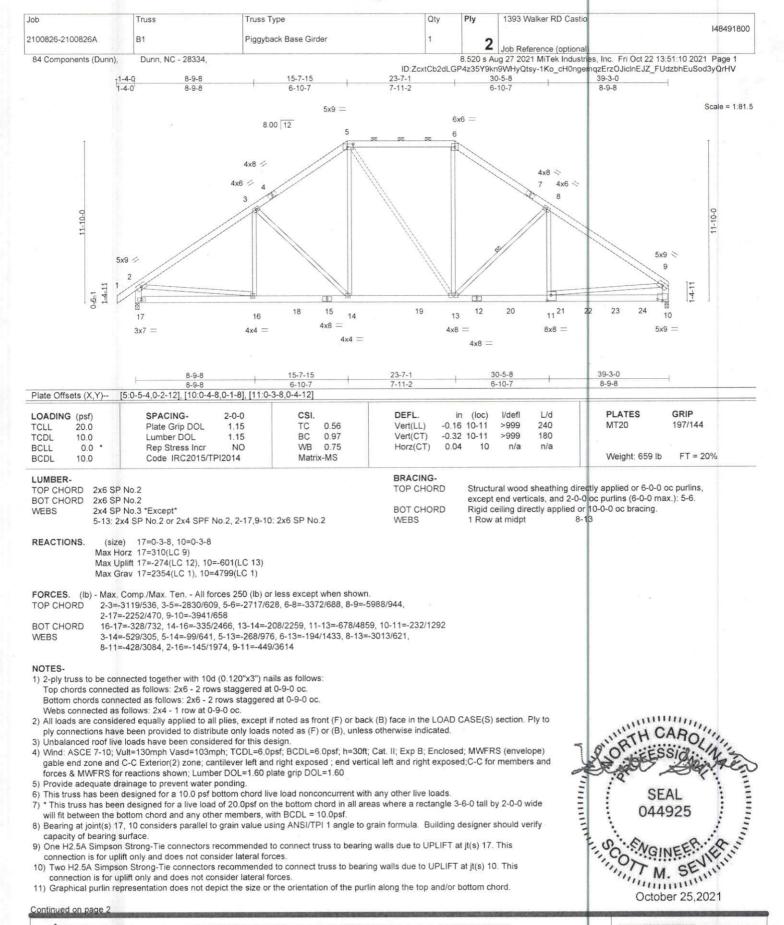
1 Row at midpt

1 Brace at Jt(s): 19, 20

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18 Soundside Road

Job	Truss	Truss Type	Qty	Ply	1393 Walker RD Castio
2100826-2100826A	B1	Piggyback Base Girder	1	2	14649160
					Job Reference (optional)

84 Components (Dunn),

Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Fri Oct 22 13.51:11 2021 Page 2 ID:ZcxtCb2dLGP4z35Y9kn9WHyQtsy-VWMMpd1PRxugbOQ9y1DrH?nUJObjMQrqSYCM9WyQrHU

NOTES-

12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2262 lb down and 336 lb up at 30-5-8, 433 lb down and 67 lb up at 31-2-4, 433 lb down and 67 lb up at 33-2-4, and 433 lb down and 67 lb up at 33-2-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

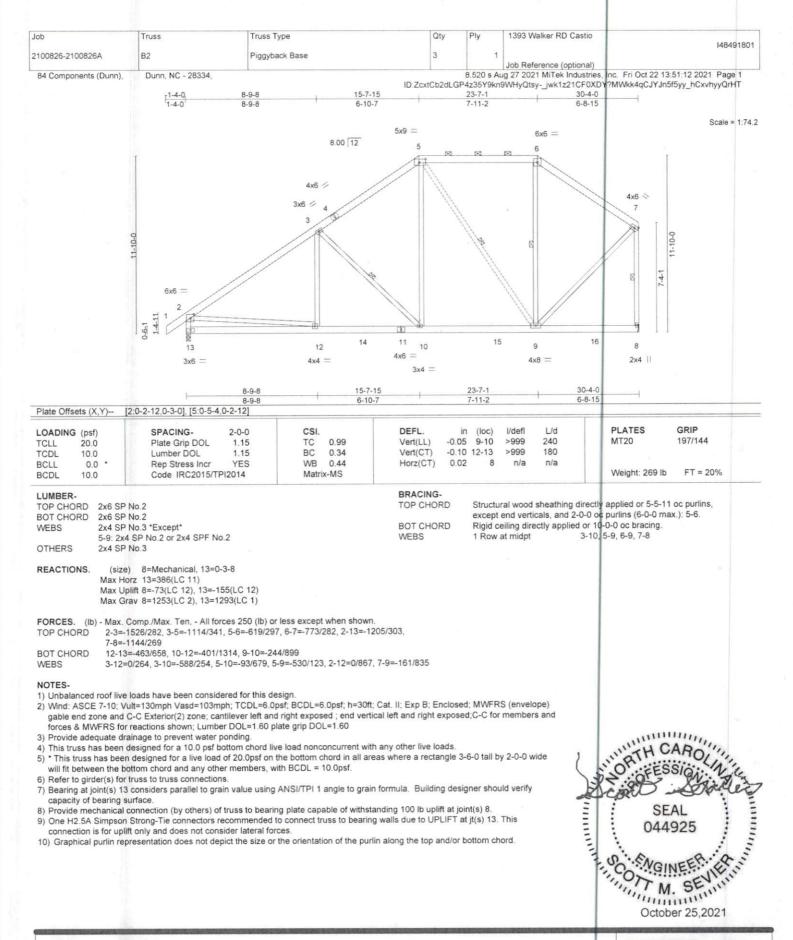
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-2=-60, 2-5=-60, 5-6=-60, 6-9=-60, 10-17=-20

Concentrated Loads (lb)

Vert: 11=-2225(B) 21=-433(B) 22=-433(B) 23=-433(B) 24=-433(B)





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ANSI/TPH1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Type Qty Ply 1393 Walker RD Castio Truss 148491802 2100826-2100826A B2E Piggyback Base Supported Gable Job Reference (optional) 84 Components (Dunn), Dunn, NC - 28334 8.520 s Aug 27 2021 MiTek Industries, Inc. Fri Oct 22 13:51:13 2021 Page 1 ID:ZcxtCb2dLGP4z35Y9kn9WHyQtsy-SvU7EI2fzZ8OriaY4RFJMQsrUBVbqU57wshSEOyQrHS 1-4-0 30-4-0

6x6 = 6x6 = 11 12 15 16 8 00 12 17 18 19 11-10-0 11-10-0 4x6 < 3x4 37 30 28 29 4x4 || 3x4 || 4x6 =

30-4-0 Plate Offsets (X,Y)--[11:0-3-0,0-3-4], [15:0-3-0,0-3-8] LOADING (psf) SPACING-2-0-0 CSI DEFL. **PLATES** GRIP (loc) I/defl L/d TCLL 20.0 Plate Grip DOL 1.15 TC 0.45 Vert(LL) -0.00 120 MT20 244/190 n/r TCDL 10.0 Lumber DOL 1.15 BC 0.11 Vert(CT) -0.00 n/r 90 BCLL 0.0 Rep Stress Incr YES WB 0.12 Horz(CT) -0.00 20 n/a n/a

30-4-0

LUMBER-

BCDL

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

10.0

OTHERS 2x4 SP No.3 BRACING-TOP CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 11-15.

BOT CHORD WEBS

1 Row at midpt

Rigid ceiling directly applied or 6-0-0 oc bracing. 15-24, 14-25, 13-26, 12-27, 11-28, 10-30,

Weight: 344 lb

FT = 20%

Scale = 1:76.0

9-31, 16-23, 17-22

REACTIONS.

All bearings 30-4-0. (lb) -Max Horz 37=385(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 20, 24, 25, 26, 27, 28, 30, 31, 32, 33, 34, 35, 23, 22 except

37=-271(LC 8), 36=-294(LC 9), 21=-103(LC 8)

Max Grav All reactions 250 lb or less at joint(s) 20, 24, 25, 26, 27, 28, 30, 31, 32, 33, 34, 35, 23, 22, 21

Matrix-R

except 37=432(LC 9), 36=307(LC 10)

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

Code IRC2015/TPI2014

TOP CHORD 2-37=-318/196, 2-3=-410/334, 3-5=-310/249, 5-6=-292/232, 6-7=-274/227

7-8=-257/223, 10-11=-261/295, 11-12=-232/271, 12-13=-232/271, 13-14=-232/271,

14-15=-232/271, 15-16=-260/294

NOTES-

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

- 2) Wind: ASCE 7-10; Vult=130mph 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; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Provide adequate drainage to prevent water ponding
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 8) Gable studs spaced at 2-0-0 oc.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads
- 10) * 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.
- 11) n/a
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE Design valid for use only with MITEKS connectors. This design is based only upon parameters and properly dark of the 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 individual et building of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent buckling of individual truss web and for the control of the c



Ply Qty 1393 Walker RD Castio Job Truss Truss Type 148491803 3 C 2100826-2100826A Common Job Reference (optional 8.520 s Aug 27 2021 MiTek Industries, Inc. Fri Oct 22 13:51:15 2021 Page 1 ID:ZcxtCb2dLGP4z35Y9kn9WHyQtsy-Olctf_4wVA064?jxBsHnSrxEH?6iiOlQNAAZIHyQrHQ 84 Components (Dunn), Dunn, NC - 28334 13-1-0 5-10-8 5-10-8 1-4-0 5-10-8 Scale = 1:49.8 6x6 = 3 12.00 12 4x6 \ 4x6 / -10-7 2x4 || 2x4 || 4x8 = 5-10-8 5-10-8 5-10-8 **PLATES** GRIP DEFL LOADING (psf) SPACING-2-0-0 CSL in (loc) I/defl L/d 197/144 TCLL 20.0 Plate Grip DOL 1.15 TC 0.30 Vert(LL) -0.036-7 >999 240 MT20 -0.06 6-7 >999 180 TCDL 10.0 Lumber DOL 1 15 RC. 0.32 Vert(CT) 0.0 * WB -0.00BCLL Rep Stress Incr YES 0.08 Horz(CT) 6 n/a n/a Weight: 97 lb FT = 20% Code IRC2015/TPI2014 Matrix-MP BCDL 10.0 BRACING-LUMBER-Structural wood sheathing directly applied or 6-0-0 oc purlins, TOP CHORD TOP CHORD 2x6 SP No.2 except end verticals. **BOT CHORD** 2x4 SP No.2 or 2x4 SPF No.2 Rigid ceiling directly applied or 10-0-0 oc bracing **BOT CHORD** WEBS 2x4 SP No.3 (size) 8=0-3-8, 6=0-3-8 REACTIONS Max Horz 8=-233(LC 10) Max Uplift 8=-58(LC 12), 6=-58(LC 13) Max Grav 8=547(LC 1), 6=547(LC 1) FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-389/108, 3-4=-389/108, 2-8=-504/183, 4-6=-504/183 TOP CHORD 1) Unbalanced roof live loads have been considered for this design 2) Wind: ASCE 7-10; Vult=130mph 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; cantilever left and right exposed; end vertical left and 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. 5) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 8 and 6. This connection is for uplift only and does not consider lateral forces.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MIL-7473 rev. 5/19/2020 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 in dicated 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 localizes with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, cerection 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, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



M. SEVIER

Job Truss Truss Type Qty Ply 1393 Walker RD Castio 148491804 2100826-2100826A C1 Common 4 Job Reference (optional) 84 Components (Dunn), Dunn, NC - 28334

8.520 s Aug 27 2021 MiTek Industries, Inc. Fri Oct 22 13:51:15 2021 Page 1 ID:ZcxtCb2dLGP4z35Y9kn9WHyQtsy-Olctf_4wVAO64?jxBsHnSrxEH?6ilOGQNAAZIHyQrHQ

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

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

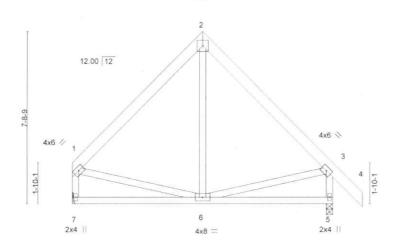
5-10-8 5-10-8 11-9-0 5-10-8 13-1-0 1-4-0

6x6 =

11-9-0

except end verticals

Scale = 1:49.8



5-10-8 5-10-8 LOADING (psf) SPACING-2-0-0 CSI. DEFL in I/defl L/d **PLATES** GRIP TCLL 20.0 Plate Grip DOL 1.15 TC 0.30 Vert(LL) -0.03 5-6 >999 240 MT20 197/144 TCDL 10.0 Lumber DOL 1.15 BC 0.32 Vert(CT) -0.06 >999 180 BCLL 0.0 Rep Stress Incr YES WB 0.08 Horz(CT) 0.00 5 n/a n/a BCDL 10.0 Code IRC2015/TPI2014 Matrix-MP Weight: 93 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

5-10-8

LUMBER-

REACTIONS.

TOP CHORD 2x6 SP No.2

BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2

WEBS 2x4 SP No.3

(size) 7=Mechanical, 5=0-3-8

Max Horz 7=-221(LC 8)

Max Uplift 7=-47(LC 13), 5=-57(LC 13) Max Grav 7=453(LC 1), 5=553(LC 1)

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

TOP CHORD 1-2=-363/92, 2-3=-395/106, 1-7=-409/116, 3-5=-509/181

WEBS 3-6=-8/252

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph 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; cantilever left and right exposed; end vertical left and 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.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7.
- 7) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 5. This connection is for uplift only and does not consider lateral forces.



eters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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 ASITPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Qty Ply 1393 Walker RD Castio Truss Truss Type 148491805 2100826-2100826A C1A Common Job Reference (optional) 8.520 s Aug 27 2021 MITek Industries, Inc. Fri Oct 22 13:51:16 2021 Page 1 ID:ZcxtCb2dLGP4z35Y9kn9WHyQtsy-sUAFtK5YGUWzi9l7lao0_2UP1PSx1rWZcqv7rjyQrHP Dunn, NC - 28334 84 Components (Dunn) 11-9-0 5-10-8 5-10-B 13-1-0 1-4-0 5-10-8 Scale = 1:49.8 6x6 = 12.00 12 4x6 \ 4x6 / 1-10-1 2x4 || 2x4 || 4x8 = 11-9-0 5-10-8 5-10-8 **PLATES** GRIP SPACING-2-0-0 CSI. DEFL. in I/defl L/d LOADING (psf) (loc) 240 MT20 197/144 Plate Grip DOL TC 0.30 Vert(LL) -0.03 5-6 >999 TCLL 20.0 1.15 -0.06 180 1.15 BC 0.32 Vert(CT) 5-6 >999 TCDL 10.0 Lumber DOL BCLL Rep Stress Incr YES WB 0.08 Horz(CT) 0.00 n/a n/a 0.0 BCDL Code IRC2015/TPI2014 Matrix-MP Weight: 93 lb FT = 20% 10.0 BRACING-LUMBER-Structural wood sheathing directly applied or 6-0-0 oc purlins, TOP CHORD 2x6 SP No.2 TOP CHORD **BOT CHORD** 2x4 SP No.2 or 2x4 SPF No.2 except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing. 2x4 SP No.3 WEBS REACTIONS. (size) 7=0-3-8, 5=0-3-8 Max Horz 7=-221(LC 8) Max Uplift 7=-47(LC 13), 5=-57(LC 13) Max Grav 7=453(LC 1), 5=553(LC 1) FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 1-2=-363/92, 2-3=-395/106, 1-7=-409/116, 3-5=-509/181 TOP CHORD 3-6=-8/252 WEBS 1) Unbalanced roof live loads have been considered for this design. 2) Wind: ASCE 7-10; Vult=130mph 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; cantilever left and right exposed; end vertical left and 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. 5) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 7 and 5. This connection is for uplift only and does not consider lateral forces. 11111111111 SEAL M. SE Octob October 25,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



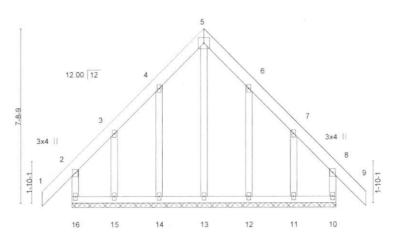
Job	Truss	Truss Type	Qty	Ply	1393 Walker RD Castio 148491806
2100826-2100826A	CE	Common Supported Gable	1	1	140451000
					Job Reference (optional)
84 Components (Dunn),	Dunn, NC - 28334,			8.520 s Au	ig 27 2021 MiTek Industries, Inc. Fri Oct 22 13:51:18 2021 Page 1

ID:ZcxtCb2dLGP4z35Y9kn9WHyQtsy-otH0H06on5mhxTSWs?rU3TZIACCZVhKs38ODvcyQrHN

1-4-0 5-10-8 5-10-8 11-9-0 5-10-8 13-1-0

6x6 =

Scale = 1:49.1



11-9-0 11-9-0

OADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
CLL	20.0	Plate Grip DOL	1.15	TC	0.26	Vert(LL)	-0.00	9	n/r	120	MT20	197/144
CDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	-0.01	9	n/r	90		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.32	Horz(CT)	-0.00	10	n/a	n/a		
BCDL	10.0	Code IRC2015/T	PI2014	Matri	x-R						Weight: 104 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2

BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2

2x4 SP No.3 WERS

2x4 SP No 3 **OTHERS**

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 11-9-0.

(lb) - Max Horz 16=-232(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 14, 12 except 16=-154(LC 8), 10=-143(LC 9), 15=-162(LC 12),

11=-159(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 16, 10, 14, 15, 12, 11 except 13=266(LC 13)

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

TOP CHORD

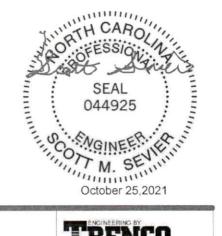
4-5=-205/300, 5-6=-205/300

WEBS 5-13=-330/150

NOTES-

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

- 2) Wind: ASCE 7-10; Vult=130mph 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; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.



MARNING - Verily design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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 shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Qty Ply 1393 Walker RD Castio Truss Type Job Truss 148491807 M1 Monopitch Supported Gable 2100826-2100826A Job Reference (optional 84 Components (Dunn), Dunn. NC - 28334

8.520 s Aug 27 2021 MTek Industries, Inc. Fri Oct 22 13:51:18 2021 Page 1 ID:ZcxtCb2dLGP4z35Y9kn9WHyQtsy-otH0H06on5mhxTSWs?rU3TZiiCBrVhss380DvcyQrHN

Structural wood sheathing directly applied or 4-6-0 oc purlins,

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

except end verticals.

-1-4-0 1-4-0 4-6-0

Scale = 1:34.9

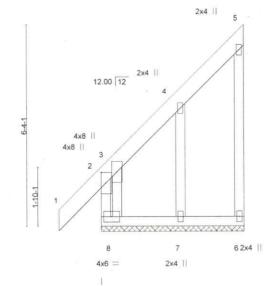


Plate Off	sets (X,Y)	[2:0-4-0,0-1-12]										
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.48	Vert(LL)	0.00	1-2	n/r	120	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	-0.00	1-2	n/r	90		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.28	Horz(CT)	-0.00	6	n/a	n/a		
BCDL	10.0	Code IRC2015/T	PI2014	Matri	x-R						Weight: 44 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

2x6 SP No.2 TOP CHORD

BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2

2x4 SP No.3 WEBS 2x4 SP No.3 **OTHERS**

(size) 8=4-6-0, 6=4-6-0, 7=4-6-0 REACTIONS.

Max Horz 8=237(LC 9)

Max Uplift 8=-108(LC 8), 6=-38(LC 11), 7=-227(LC 12) Max Grav 8=329(LC 20), 6=79(LC 19), 7=255(LC 19)

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

2-8=-741/808, 2-3=-368/430, 3-4=-437/391 TOP CHORD

4-7=-431/445, 3-8=-1131/948 WEBS

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph 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; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable requires continuous bottom chord bearing.
- 4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 5) Gable studs spaced at 2-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent ucliapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply 1393 Walker RD Castio 148491808 2100826-2100826A M1GR Roof Special Girder 2 Job Reference (optional)

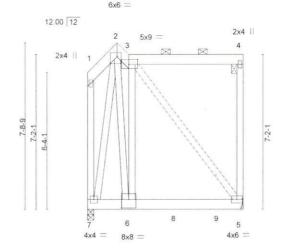
84 Components (Dunn).

Dunn, NC - 28334

8.520 s Aug 27 2021 MiTek Industries, Inc. Fri Oct 22 13:51:20 2021 Page 1 ID:ZcxtCb2dLGP4z35Y9kn9WHyQtsy-IFPmii82Ji0PAncu_Pty8ue2B0gPzWG9XStK_UyQrHL

1-4-8 1-11-0 7-3-0 5-4-0

Scale = 1:51.4



1-11-0 7-3-0

Plate Off	sets (X,Y)	[2:0-3-12,Edge], [3:0-5-0	,0-2-12], [6:0-4	-0,0-4-12]								
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.42	Vert(LL)	-0.07	5-6	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.99	Vert(CT)	-0.13	5-6	>642	180	2707705556.3	
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.61	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2015/TI	PI2014	Matri	x-MP						Weight: 192 lb	FT = 20%

LUMBER-

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

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

except end verticals, and 2-0-0 oc purlins: 3-4. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 5=Mechanical, 7=0-3-8 Max Horz 7=255(LC 9) Max Uplift 5=-316(LC 9), 7=-198(LC 8) Max Grav 5=2294(LC 2), 7=1882(LC 2)

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

TOP CHORD 2-3=-837/187

BOT CHORD 6-7=-287/454, 5-6=-295/640

2-6=-396/2935, 3-6=-265/406, 3-5=-1047/351, 2-7=-2477/415 WEBS

NOTES-

- 1) 2-ply truss to be connected together with 10d (0.120"x3") nails as follows: Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc. Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-6-0 oc. Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

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

4) Wind: ASCE 7-10; Vult=130mph 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; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

5) Provide adequate drainage to prevent water ponding.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

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

- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 5=316
- 10) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 7. This connection is for uplift only and does not consider lateral forces.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1230 lb down and 93 lb up at 2-0-12, and 1230 lb down and 93 lb up at 4-0-12, and 1230 lb down and 93 lb up at 6-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

Continued on page 2

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MTEK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of truss systems, see ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





Qty Ply 1393 Walker RD Castio Job Truss Truss Type 148491808 2100826-2100826A M1GR Roof Special Girder 84 Components (Dunn), Dunn, NC - 28334

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-2=-60, 2-3=-60, 3-4=-60, 5-7=-20 Concentrated Loads (lb)

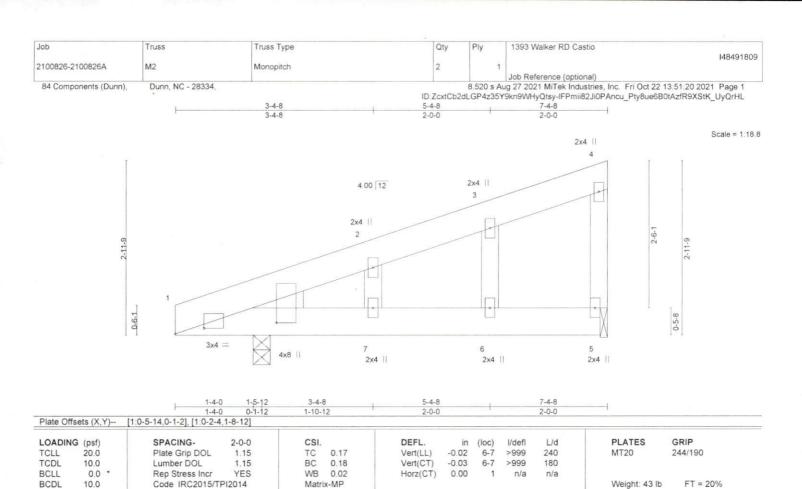
Vert: 6=-1179(F) 8=-1179(F) 9=-1179(F)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x4 SP No.3 WEDGE

Left: 2x4 SP No.3

Lett. 2x4 SP No.3

REACTIONS.

IONS. (size) 1=0-3-8, 5=0-1-8

Max Horz 1=102(LC 11)

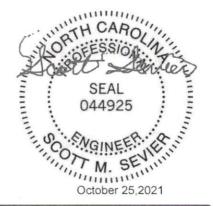
Max Uplift 1=-56(LC 8), 5=-51(LC 12)

Max Grav 1=355(LC 1), 5=224(LC 1)

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

NOTES-

- Wind: ASCE 7-10; Vult=130mph 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; cantilever left and right exposed; end vertical 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.
- 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 5.
- 6) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1 and 5. This connection is for uplift only and does not consider lateral forces.



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

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

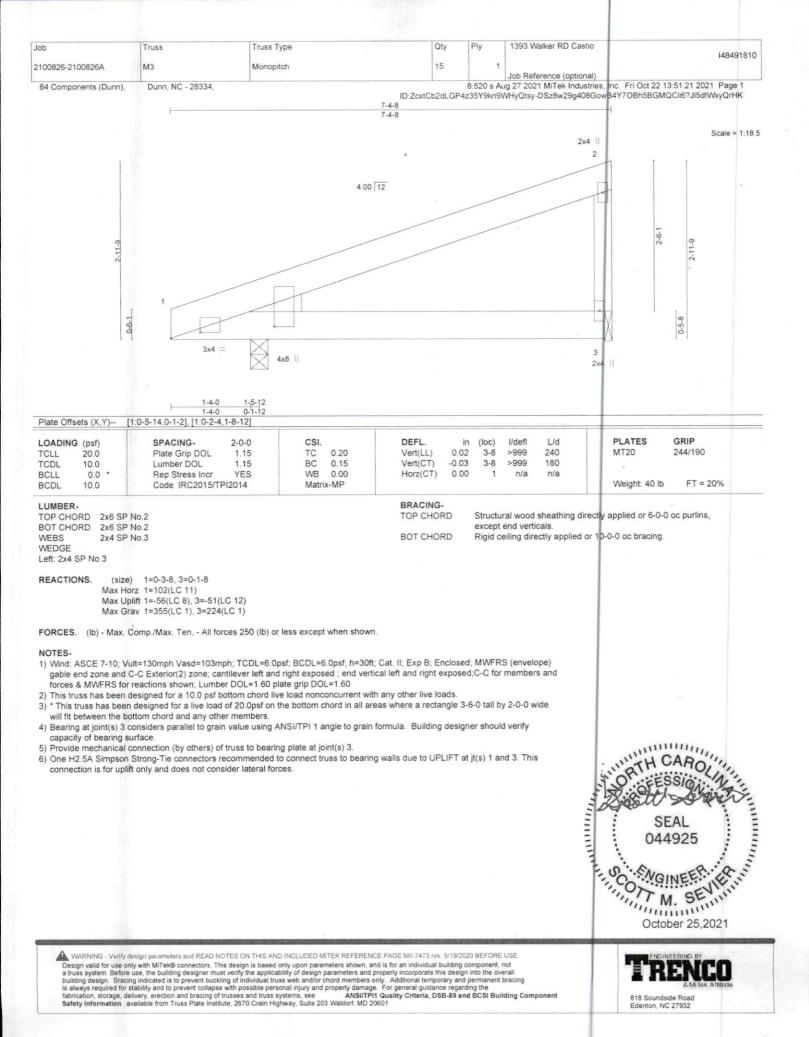
except end verticals.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MITEK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPH1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





Job	Truss	Truss Type	Qty	Ply	1393 Walker RD Castio
2100826-2100826A	M4	GABLE	1	1	148491811
					Job Reference (optional)

84 Components (Dunn),

Dunn, NC - 28334

8.520 s Aug 27 2021 MiTek Industries, Inc. Fri Oct 22 13:51:22 2021 Page 1 $ID. ZcxtCb2dLGP4z35Y9kn9WHyQtsy-heXW7N9JrKG7Q4mH5qvQEJkGbpSvRS9S_IMR2NyQrHJ\\$

2-0-0 oc purlins (6-0-0 max.), except end verticals

3-4, 2-4, 2-5

(Switched from sheeted: Spacing > 2-0-0). Rigid ceiling directly applied or 9-0-12 oc bracing.

1 Row at midpt

Scale = 1:77.7

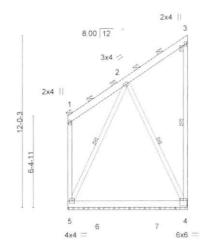


Plate Offsets (X,Y) [4:0-3-0,0-4-4]												
LOADIN	G (psf)	SPACING-	5-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.94	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.54	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.45	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2015/TI	PI2014	Matri	x-P						Weight: 96 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x6 SP No 2

BOT CHORD 2x6 SP DSS

WERS 2x4 SP No.3 *Except*

1-5: 2x4 SP No.2 or 2x4 SPF No.2

REACTIONS. (size) 4=8-5-4, 5=8-5-4

Max Horz 5=603(LC 9)

Max Uplift 4=-636(LC 12)

Max Grav 4=1238(LC 19), 5=945(LC 20)

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

TOP CHORD

1-2=-419/479, 3-4=-262/176, 1-5=-404/339

BOT CHORD

4-5=-416/436 WEBS 2-4=-1002/957, 2-5=-911/570

- 1) Wind: ASCE 7-10; Vult=130mph 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; end vertical left exposed; 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, with BCDL = 10.0psf.



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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 manage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20801

Qty Ply 1393 Walker RD Castio Job Truss Truss Type 148491812 MONOPITCH GIRDER 2100826-2100826A MG1 2 | Job Reference (optional) 8.520 s Aug 27 2021 MiTek Industries Inc. Fri Oct 22 13:51:23 2021 Page 1 Dunn, NC - 28334. 84 Components (Dunn). ID:ZcxtCb2dLGP4z35Y9kn9WHyQtsy-9q5vLjAxcdOz1ELTfYQfmWGTcDmSAxpbDP6_apyQrHI 8-5-4 4-2-10 4-2-10 4-2-10 Scale = 1:73.8 2x4 || 8.00 12 3x4 / 2x4 | 12-0-3 6-4-11 4x4 = 6x6 = PLATES GRIP DEFL. SPACING-5-0-0 CSI. in I/defl L/d LOADING (psf) (loc) 0.79 -0.12 >786 240 MT20 244/190 TC Vert(LL) 4-5 TCLL 20.0 Plate Grip DOL 1.15 -0.21 >467 180 1.15 BC 0.65 Vert(CT) 4-5 TCDL 10.0 Lumber DOL Rep Stress Incr NO WB 0.36 Horz(CT) 0.00 n/a n/a **BCII** 0.0 Weight: 191 lb FT = 20% Code IRC2015/TPI2014 Matrix-MP BCDL 10.0 BRACING-LUMBER-2-0-0 oc purlins (6-0-0 max.), except end verticals 2x6 SP No.2 TOP CHORD TOP CHORD BOT CHORD 2x6 SP No.2 (Switched from sheeted: Spacing > 2-0-0) BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. 2x4 SP No.3 WEBS WEBS 1 Row at midpt 3-4 (size) 4=0-3-8, 5=0-3-8 REACTIONS. Max Horz 5=603(LC 9) Max Uplift 4=-636(LC 12) Max Grav 4=1238(LC 19), 5=945(LC 20) FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-419/479, 3-4=-262/176, 1-5=-404/339 **BOT CHORD** 4-5=-416/436 2-4=-1002/956, 2-5=-911/570 WEBS NOTES-1) 2-ply truss to be connected together with 10d (0.120"x3") nails as follows: Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc. Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc. Webs connected as follows: 2x4 - 1 row at 0-9-0 oc. 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated. 3) Wind: ASCE 7-10; Vult=130mph 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; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 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) Two H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 4. This connection is for uplift only and does not consider lateral forces. Octob October 25,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



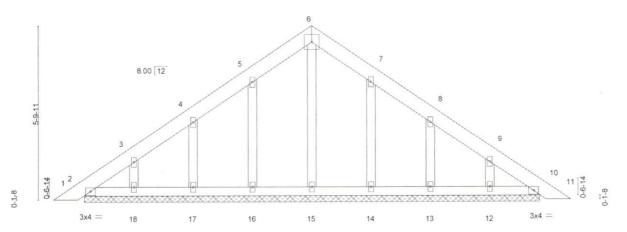
Job Truss Type Qty Ply 1393 Walker RD Castio Truss 148491813 2 2100826-2100826A PB1 Piggyback Job Reference (optional) 8.520 s Aug 27 2021 MiTek Industries, Inc. Fri Oct 22 13:51:24 2021 Page 1 Dunn, NC - 28334 84 Components (Dunn), ID: ZcxtCb2dLGP4z35Y9kn9WHyQtsy-d0fHY3BZNxXqfOvfDFyuJkpqLdGOvTuIS3rY7FyQrHH8-8-9

6x6 =

Scale = 1:37.2

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

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



PLATES GRIP LOADING (psf) SPACING-2-0-0 CSI DEFL in (loc) I/defl L/d 197/144 TCLL 20.0 Plate Grip DOL 1.15 TC 0.03 Vert(LL) 0.00 10 n/r 120 MT20 90 TCDL 10.0 Lumber DOL 1.15 BC 0.03 Vert(CT) 0.00 10 n/r BCLL 0.0 Rep Stress Incr YES WB 0.06 Horz(CT) 0.00 10 n/a n/a Weight: 99 lb FT = 20% BCDL 10.0 Code IRC2015/TPI2014 Matrix-P

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x6 SP No.2

2x4 SP No.2 or 2x4 SPF No.2 **BOT CHORD WEBS** 2x4 SP No.3

OTHERS 2x4 SP No.3

REACTIONS. All bearings 15-4-0.

(lb) - Max Horz 2=-137(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 2, 17, 13, 18, 16, 14, 12

Max Grav All reactions 250 lb or less at joint(s) 2, 10, 15, 17, 13, 18, 16, 14, 12

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

NOTES-

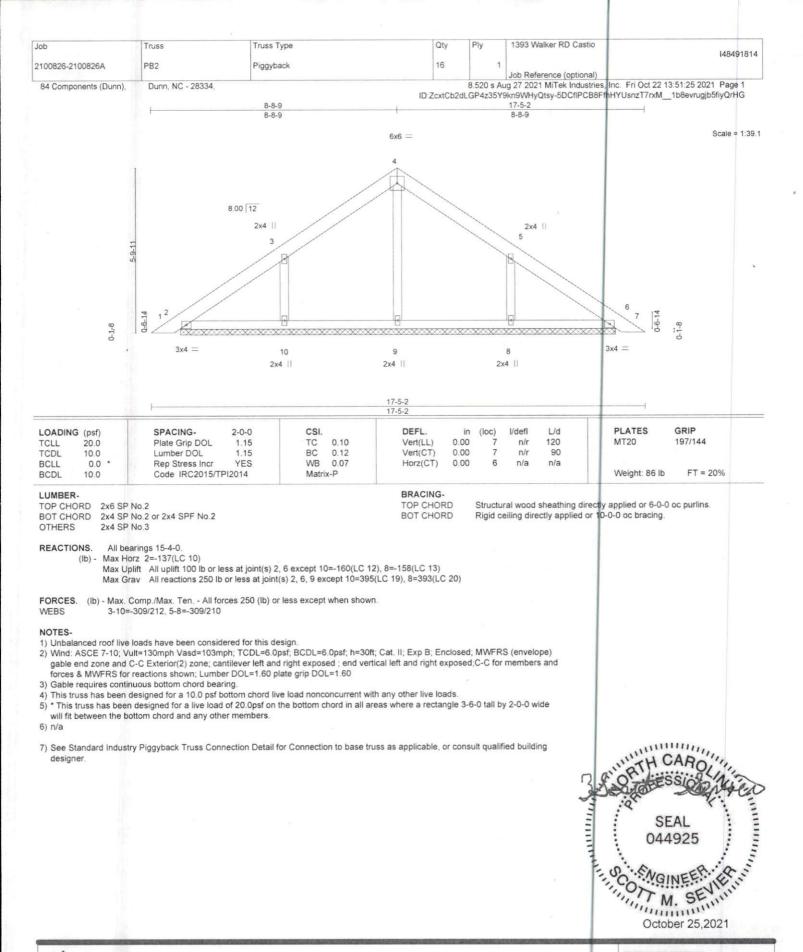
1) Unbalanced roof live loads have been considered for this design

- 2) Wind: ASCE 7-10; Vult=130mph 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; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are 2x4 MT20 unless otherwise indicated. 4) Gable requires continuous bottom chord bearing.
- 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) n/a
- 8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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Job Qty 1393 Walker RD Castio Truss Truss Type 148491815 2100826-2100826A PB5 10 Piggyback Job Reference (optional) 84 Components (Dunn), Dunn, NC - 28334 8.520 s Aug 27 2021 MiTek Industries, Inc. Fri Oct 22 13:51:26 2021 Page 1 $ID: ZcxtCb2dLGP4z35Y9kn9WHyQtsy-ZPm1zlCpvYnYui32Kg_MO9uALRxyNNs2vNKeB8yQrHF$ 3-11-9 3-11-9 Scale = 1:17.8 4×4 = 8.00 12 0-6-14 0-6-14 3x4 = 3x4 = 2x4 || 7-11-2 PLATES GRIP LOADING (psf) SPACING-2-0-0 CSL DEFL in (loc) I/defl L/d TCLL 20.0 Plate Grip DOL 1.15 TC 0.06 Vert(LL) 0.00 5 n/r 120 MT20 197/144 BC TCDL 10.0 Lumber DOL 1 15 0.09 Vert(CT) 0.00 5 n/r 90 BCLL 0.0 Rep Stress Incr YES WB 0.03 Horz(CT) 0.00 4 n/a n/a Code IRC2015/TPI2014 Weight: 33 lb FT = 20% BCDL 10.0 Matrix-P BRACING-LUMBER-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

2x6 SP No.2 TOP CHORD

BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2

2x4 SP No 3 OTHERS

(size) 2=5-10-1, 4=5-10-1, 6=5-10-1

Max Horz 2=-59(LC 10) Max Uplift 2=-46(LC 12), 4=-55(LC 13)

Max Grav 2=173(LC 1), 4=173(LC 1), 6=196(LC 1)

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

NOTES-

REACTIONS.

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

2) Wind: ASCE 7-10; Vult=130mph 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; cantilever left and right exposed; end vertical left and right exposed; 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.

7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building



Marning - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. AM WARNING - Voilty design parameters and READ NOTES ON THIS AND INCLUDED MITER REPERTING FAGE MITTAT INV. STIMBLOUD BEFORE OSC.

Design valid for use only with MITEK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20501

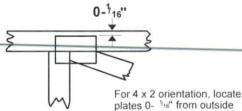


Symbols

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.



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

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

edge of truss.

PLATE SIZE

 4×4

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/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.

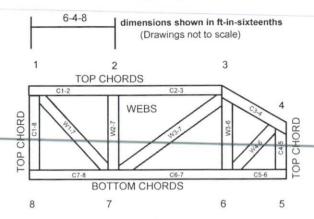
DSB-89:

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



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. 5/19/2020



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.
- 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.
- 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.
- 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
- 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.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.