

Trenco 818 Soundside Rd Edenton, NC 27932

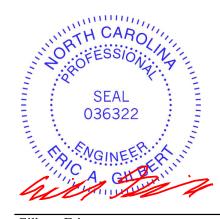
Re: 35873-35873A 56 SERENITY - ROOF

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: I57060748 thru I57060774

My license renewal date for the state of North Carolina is December 31, 2023.

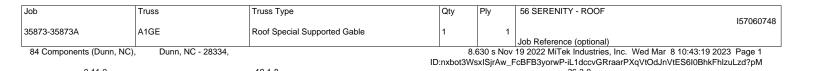
North Carolina COA: C-0844



March 8,2023

Gilbert, Eric

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.



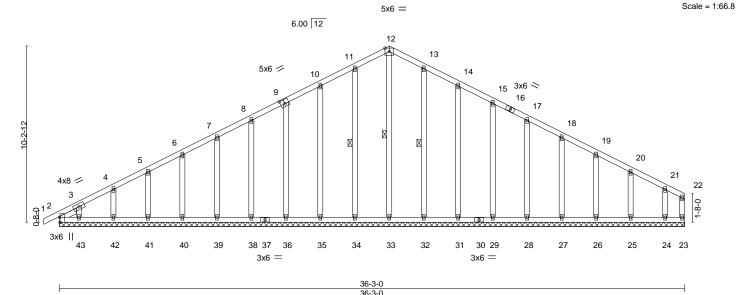


Plate Off	sets (X,Y)	[2:0-3-8,Edge], [9:0-3-0,0)-3-0]									
LOADING TCLL TCDL BCLL	20.0 10.0 0.0 *	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES	CSI. TC BC WB	0.08 0.05 0.14	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.00 -0.00 0.00	(loc) 1 1 23	l/defl n/r n/r n/a	L/d 120 90 n/a	PLATES MT20	GRIP 244/190
BCDL	10.0	Code IRC2015/Ti	PI2014	Matri	x-S						Weight: 258 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

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

OTHERS 2x4 SP No.3 *Except* 12-33,11-34,10-35,9-36,13-32,14-31,15-29: 2x4 SP No.2

SLIDER Left 2x4 SP No.3 1-1-6

REACTIONS. All bearings 36-3-0.

Max Horz 2=148(LC 10) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 34, 35, 36, 38, 39, 40, 41, 42,

43, 32, 31, 29, 28, 27, 26, 25, 24

Max Grav All reactions 250 lb or less at joint(s) 23, 2, 33, 34, 35, 36, 38, 39, 40,

19-1-8

41, 42, 43, 32, 31, 29, 28, 27, 26, 25, 24

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 10-11=-114/272, 11-12=-127/308, 12-13=-127/308, 13-14=-114/272

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; 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) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 34, 35, 36, 38, 39, 40, 41, 42, 43, 32, 31, 29, 28, 27, 26, 25, 24.



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

12-33, 11-34, 13-32

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

except end verticals.

1 Row at midpt

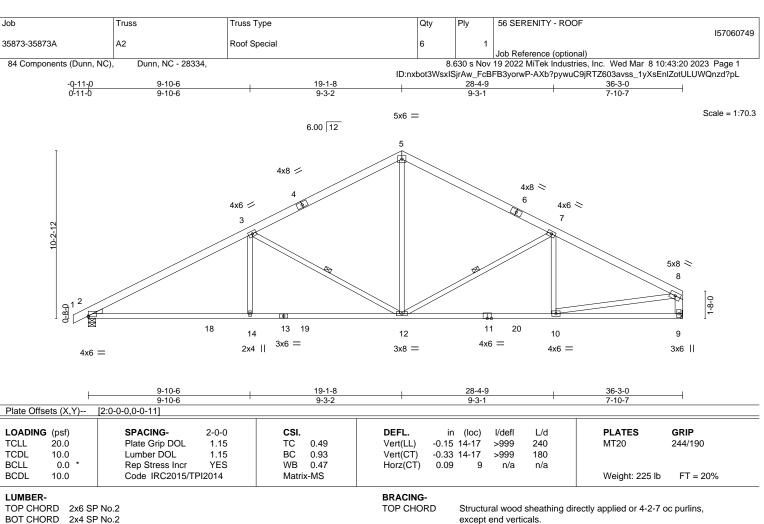
March 8,2023

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

AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





BOT CHORD

WEBS

Rigid ceiling directly applied or 2-2-0 oc bracing.

1 Row at midpt

3-12, 7-12

TOP CHORD **BOT CHORD** 2x4 SP No.2 WEBS 2x4 SP No.2 *Except*

3-14,7-10: 2x4 SP No.3, 8-9: 2x6 SP No.2

WEDGE Left: 2x4 SP No.3

REACTIONS. (size) 2=0-5-8, 9=Mechanical

Max Horz 2=150(LC 14)

Max Uplift 2=-100(LC 10), 9=-71(LC 11) Max Grav 2=1497(LC 1), 9=1440(LC 1)

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

TOP CHORD $2-3=-2470/412,\ 3-5=-1649/368,\ 5-7=-1646/367,\ 7-8=-2064/359,\ 8-9=-1371/260$

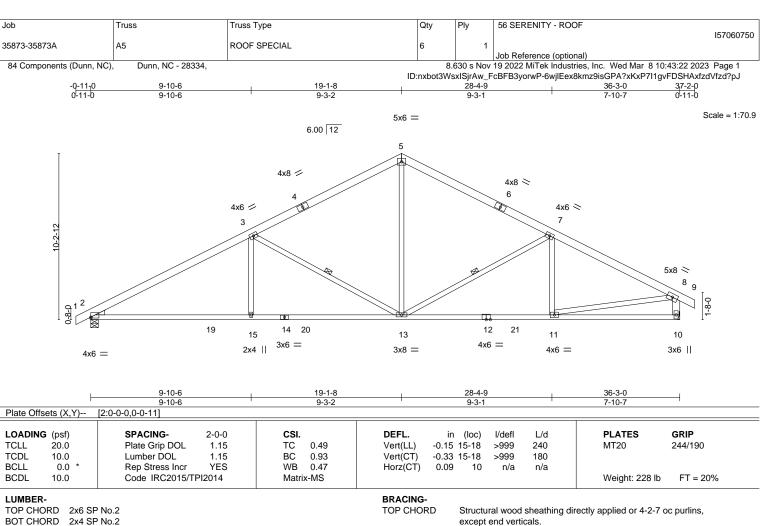
BOT CHORD 2-14=-262/2099, 12-14=-262/2099, 10-12=-207/1767

WEBS 3-14=0/377, 3-12=-908/253, 5-12=-105/859, 7-12=-548/190, 8-10=-199/1635

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; 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, with BCDL = 10.0psf.
- 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) 9 except (jt=lb) 2=100







BOT CHORD

WEBS

Rigid ceiling directly applied or 2-2-0 oc bracing.

1 Row at midpt

3-13, 7-13

LUMBER-

TOP CHORD **BOT CHORD** 2x4 SP No.2 WEBS 2x4 SP No.2 *Except*

3-15,7-11: 2x4 SP No.3, 8-10: 2x6 SP No.2 WEDGE

Left: 2x4 SP No.3

REACTIONS. (size) 2=0-5-8, 10=Mechanical

Max Horz 2=142(LC 14)

Max Uplift 2=-101(LC 10), 10=-89(LC 11) Max Grav 2=1495(LC 1), 10=1510(LC 1)

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

TOP CHORD $2\text{-}3\text{=-}2467/412,\ 3\text{-}5\text{=-}1647/369,\ 5\text{-}7\text{=-}1643/366,\ 7\text{-}8\text{=-}2060/361,\ 8\text{-}10\text{=-}1441/313}$

BOT CHORD 2-15=-230/2097, 13-15=-230/2097, 11-13=-173/1757

WEBS 3-15=0/377, 3-13=-908/253, 5-13=-104/855, 7-13=-539/188, 8-11=-158/1576

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; 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, with BCDL = 10.0psf.
- 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) 10 except (jt=lb) 2=101.



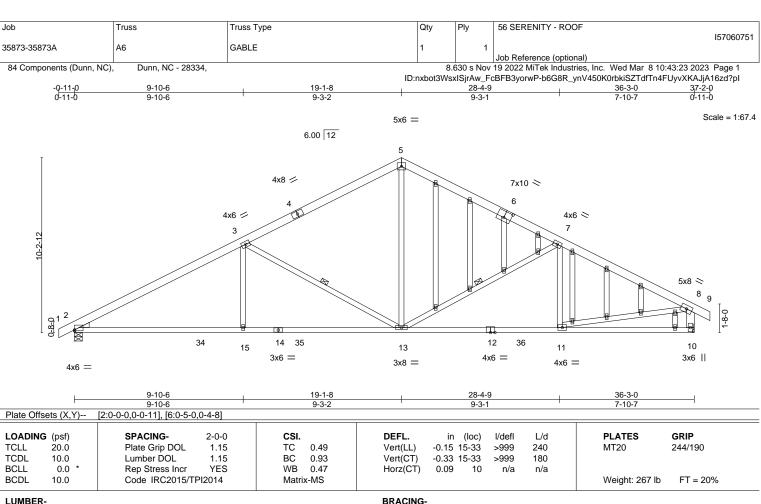


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TOP CHORD

BOT CHORD

WEBS

LUMBER-

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

3-15,7-11: 2x4 SP No.3, 8-10: 2x6 SP No.2

OTHERS 2x4 SP No.3 *Except* 16-17: 2x4 SP No.2

WEDGE Left: 2x4 SP No.3

REACTIONS. (size) 2=0-5-8, 10=Mechanical

Max Horz 2=142(LC 14)

Max Uplift 2=-101(LC 10), 10=-89(LC 11) Max Grav 2=1495(LC 1), 10=1510(LC 1)

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

TOP CHORD 2-3=-2467/412, 3-5=-1647/369, 5-7=-1643/366, 7-8=-2060/361, 8-10=-1441/313

BOT CHORD 2-15=-230/2097, 13-15=-230/2097, 11-13=-173/1757

3-15=0/377, 3-13=-908/253, 5-13=-104/855, 7-13=-539/188, 8-11=-158/1576 WEBS

NOTES-

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

- 2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; 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 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.
- * 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.
- 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) 10 except (jt=lb) 2=101.



Structural wood sheathing directly applied or 4-2-7 oc purlins,

3-13, 7-13

Rigid ceiling directly applied or 2-2-0 oc bracing.

except end verticals.

1 Row at midpt

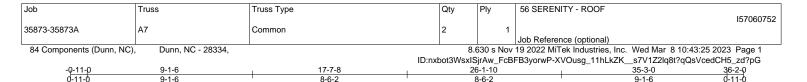
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8-6-2

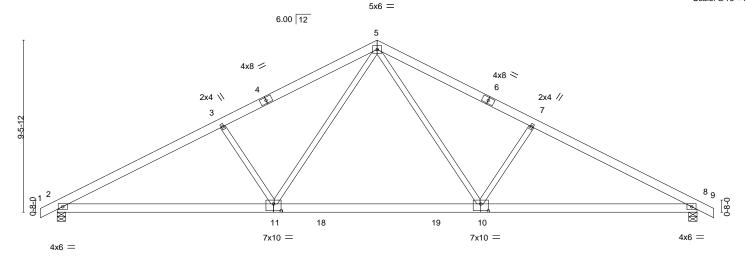
8-6-2

Scale: 3/16"=1

9-1-6

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

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



11-11-7 Plate Offsets (X,Y)--[10:0-5-0,0-4-8], [11:0-5-0,0-4-8] **PLATES GRIP** LOADING (psf) SPACING-CSI. DEFL. in (loc) I/defI L/d TCLL 20.0 Plate Grip DOL 1.15 TC 0.43 Vert(LL) -0.24 10-11 >999 240 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 BC 0.68 Vert(CT) -0.37 10-11 >999 180 BCLL 0.0 Rep Stress Incr YES WB 0.31 Horz(CT) 0.06 8 n/a n/a Code IRC2015/TPI2014 FT = 20% **BCDL** 10.0 Matrix-MS Weight: 226 lb

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

2x6 SP No.2 TOP CHORD BOT CHORD 2x6 SP No.2 WEBS 2x4 SP No.2 *Except* 7-10,3-11: 2x4 SP No.3

(size) 2=0-5-8, 8=0-5-8

Max Horz 2=-132(LC 15)

Max Uplift 2=-93(LC 10), 8=-93(LC 11) Max Grav 2=1465(LC 1), 8=1465(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-2435/430, 3-5=-2161/450, 5-7=-2161/450, 7-8=-2435/430

BOT CHORD 2-11=-254/2091, 10-11=-47/1390, 8-10=-254/2091

WEBS 5-10=-114/851, 7-10=-529/274, 5-11=-114/851, 3-11=-529/274

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8.



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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5x6 =

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

ID:nxbot3WsxISjrAw_FcBFB3yorwP-TtWeHL?HZlbRoe8MzYXVeTq9nhfium3v5xhOAtzd?pE

Structural wood sheathing directly applied or 4-1-14 oc purlins.

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

Scale = 1:69.9



6.00 12 5 4x8 / 4x8 > 2x4 \\ 2x4 // 11 23 12 21 22 10 13 20 4x6 = 7x10 = 4x6 = 4x6 = 4x6 = 4x6 = 4x6 = 7x10 =4x6 =

					-	
	11-11-7	<u> </u>	11-4-2	11-11-7	7	<u> </u>
Plate Offsets (X,Y) [10:0	:0-5-0,0-4-8], [13:0-5-0,0-4-8]					
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.42 BC 0.72 WB 0.30 Matrix-MS	DEFL. in (lo Vert(LL) -0.13 10-1 Vert(CT) -0.28 10-1 Horz(CT) 0.06	3 >999 240	PLATES MT20 Weight: 244 lb	GRIP 244/190 FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

2x6 SP No.2 TOP CHORD BOT CHORD 2x6 SP No.2 WEBS 2x4 SP No.2 *Except* 7-10,3-13: 2x4 SP No.3

(size) 2=0-5-8, 8=0-5-8

Max Horz 2=-132(LC 15)

Max Grav 2=1565(LC 1), 8=1565(LC 1)

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

TOP CHORD 2-3=-2655/209, 3-5=-2382/228, 5-7=-2382/228, 7-8=-2655/209

BOT CHORD 2-13=-58/2285, 10-13=0/1527, 8-10=-58/2285

5-10=0/949, 7-10=-522/282, 5-13=0/949, 3-13=-522/282 WFBS

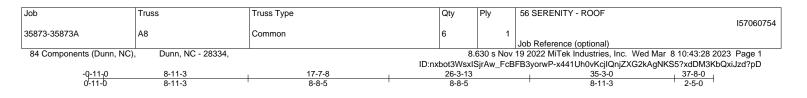
NOTES-

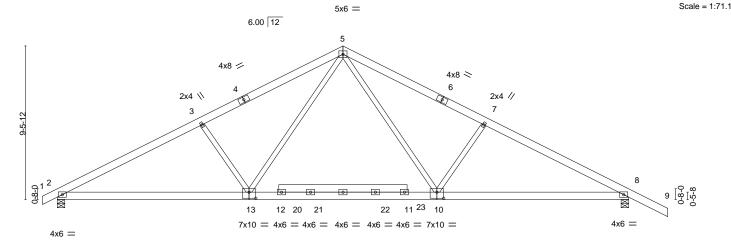
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 200.0lb AC unit load placed on the bottom chord, 17-7-8 from left end, supported at two points, 5-0-0 apart.
- 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.





818 Soundside Road Edenton, NC 27932





	11-9-15 11-9-15		23-5-1 11-7-2	35-3 11-9		
Plate Offsets (X,Y)	[10:0-5-0,0-4-8], [13:0-5-0,0-4-8]					
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in	(loc) I/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.43	Vert(LL) -0.13	10-13 >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.72	Vert(CT) -0.30	10-13 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.30	Horz(CT) 0.06	8 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS			Weight: 248 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

7-10,3-13: 2x4 SP No.3

REACTIONS. (size) 2=0-5-8, 8=0-5-8

Max Horz 2=-153(LC 11) Max Uplift 8=-19(LC 11)

Max Grav 2=1561(LC 1), 8=1659(LC 1)

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

2-3=-2657/203, 3-5=-2377/217, 5-7=-2360/200, 7-8=-2639/186 TOP CHORD

BOT CHORD 2-13=-13/2290, 10-13=0/1517, 8-10=0/2269

WEBS 5-10=0/929, 7-10=-511/271, 5-13=0/949, 3-13=-523/282

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; 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) 200.0lb AC unit load placed on the bottom chord, 17-7-8 from left end, supported at two points, 5-0-0 apart.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8.



Structural wood sheathing directly applied or 4-2-5 oc purlins.

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

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ID:nxbot3WsxlSjrAw_FcBFB3yorwP-tSCnvN2ArDz0f5txeg4CG5SmnusG5AnLnvv2nCzd?pB 17-7-8

17-7-8

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

11-31, 10-32, 12-30

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

1 Row at midpt

Scale: 3/16"=1

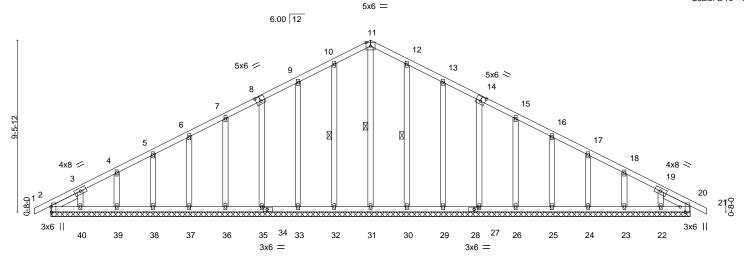


Plate Offsets (X,Y)--[2:0-3-8,Edge], [8:0-3-0,0-3-0], [14:0-3-0,0-3-0], [20:0-3-8,Edge], [28:0-2-8,0-1-8], [34:0-2-8,0-1-8] LOADING (psf) SPACING-(loc) I/defI L/d **PLATES** GRIP TCLL 20.0 Plate Grip DOL 1.15 TC 0.06 Vert(LL) -0.00 20 120 244/190 n/r MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.03 Vert(CT) -0.00 21 n/r 90 **BCLL** 0.0 Rep Stress Incr YES WB 0.11 Horz(CT) 0.01 20 n/a n/a Code IRC2015/TPI2014 **BCDL** 10.0 Weight: 238 lb FT = 20%Matrix-S

BRACING-

WEBS

TOP CHORD

BOT CHORD

LUMBER-

SLIDER

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

11-31,10-32,9-33,12-30,13-29: 2x4 SP No.2 Left 2x4 SP No.3 1-8-2, Right 2x4 SP No.3 1-8-2

REACTIONS. All bearings 35-3-0.

Max Horz 2=-132(LC 11) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 32, 33, 35, 36, 37, 38, 39, 40, 30, 29, 27, 26, 25, 24, 23,

22

Max Grav All reactions 250 lb or less at joint(s) 2, 31, 32, 33, 35, 36, 37, 38, 39, 40, 30, 29, 27, 26, 25, 24, 23, 22, 20

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

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; 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) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 32, 33, 35, 36, 37, 38, 39, 40, 30, 29, 27, 26, 25, 24, 23, 22.



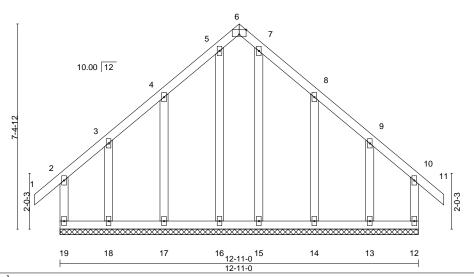


Job Truss Truss Type Qty Ply 56 SERENITY - ROOF 157060756 35873-35873A C1E **GABLE** Job Reference (optional) 84 Components (Dunn, NC), Dunn, NC - 28334, 8.630 s Nov 19 2022 MiTek Industries, Inc. Wed Mar 8 10:43:32 2023 Page 1

ID:nxbot3WsxlSjrAw_FcBFB3yorwP-qrJXK33QNrDkvP1Km57gLWX3liXBZ4WeFDO9r4zd?p9

13-10-0 0-11-0 0-11-0 6-5-8 6-5-8 12-11-0 6-5-8

> Scale = 1:41.5 3x6 =



_Plate Off	Plate Offsets (X,Y) [6:0-3-0,Edge]											
LOADIN	IG (psf)	SPACING- 2-0	0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL 1.	.15	TC	0.22	Vert(LL)	-0.00	11	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL 1.	.15	BC	0.13	Vert(CT)	-0.00	11	n/r	90		
BCLL	0.0 *	Rep Stress Incr Y	ES	WB	0.10	Horz(CT)	-0.00	12	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI201	14	Matri	x-R						Weight: 94 lb	FT = 20%

BRACING-LUMBER-

2x4 SP No.2 TOP CHORD TOP CHORD

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

OTHERS 2x4 SP No.3 *Except* 5-16,7-15: 2x4 SP No.2

REACTIONS. All bearings 12-11-0.

Max Horz 19=-185(LC 8) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 17, 14 except 19=-127(LC 6), 12=-121(LC 7), 18=-135(LC 7),

13=-130(LC 6)

Max Grav All reactions 250 lb or less at joint(s) 19, 12, 16, 17, 18, 15, 14, 13

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=120mph Vasd=95mph; 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).
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17, 14 except (jt=lb) 19=127, 12=121, 18=135, 13=130.





Job Truss Truss Type Qty Ply 56 SERENITY - ROOF 157060757 35873-35873A C2 Common 3

84 Components (Dunn, NC),

Dunn, NC - 28334,

Job Reference (optional) 8.630 s Nov 19 2022 MiTek Industries, Inc. Wed Mar 8 10:43:34 2023 Page 1 ID:nxbot3WsxlSjrAw_FcBFB3yorwP-mDRIll5gvSTS8iAjtW98QxdHOV671_RxiXtGwzzd?p7

12-11-0 6-5-8 6-5-8 6-5-8

> Scale = 1:46.5 4x6 =

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

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

except end verticals.

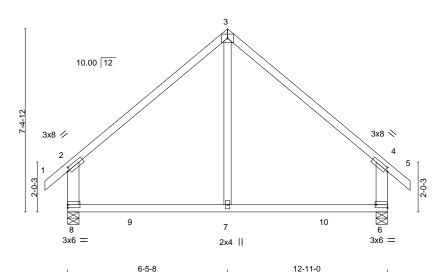


Plate Offsets (X,Y)-- [2:0-1-4,0-1-8], [4:0-1-4,0-1-8], [6:Edge,0-1-8]

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 0.72	Vert(LL) -0.09 7 >999 240	MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.48	Vert(CT) -0.16 6-7 >941 180	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.07	Horz(CT) 0.01 6 n/a n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MR		Weight: 67 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

3-7: 2x4 SP No.2

REACTIONS. (size) 8=0-5-8, 6=0-5-8 Max Horz 8=-187(LC 8)

Max Uplift 8=-29(LC 10), 6=-29(LC 11)

Max Grav 8=613(LC 17), 6=613(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-521/122, 3-4=-520/122, 2-8=-506/159, 4-6=-506/159

BOT CHORD 7-8=-18/334, 6-7=-18/334 **WEBS** 3-7=0/310

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; 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, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 6.





Job Truss Truss Type Qty Ply 56 SERENITY - ROOF 157060758 COMMON GIRDER 35873-35873A C3G Job Reference (optional)

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

8.630 s Nov 19 2022 MiTek Industries, Inc. Wed Mar 8 10:43:36 2023 Page 1 ID:nxbot3WsxlSjrAw_FcBFB3yorwP-icZ2AQ6wR3kAN0K5?xBcVMiloJnCVmgE9rMN_szd?p5

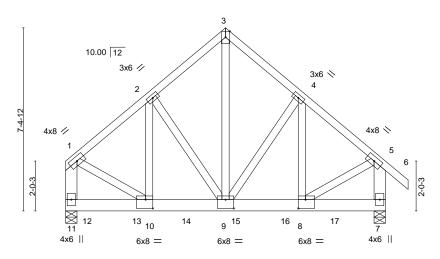
12-11-0 9-6-8 3-4-8 3-1-0 3-1-0 3-4-8

> Scale = 1:46.5 4x6 ||

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

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

except end verticals.



9-6-8 12-11-0

BRACING-

TOP CHORD

BOT CHORD

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 0.21	Vert(LL) -0.03 9-10 >999 240	MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.57	Vert(CT) -0.05 9-10 >999 180	
BCLL 0.0 *	Rep Stress Incr NO	WB 0.60	Horz(CT) 0.01 7 n/a n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS		Weight: 222 lb FT = 20%

LUMBER-

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

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

3-9: 2x4 SP No.2, 1-11,5-7: 2x6 SP No.2

REACTIONS. (size) 11=0-5-8, 7=0-5-8

Max Horz 11=-178(LC 25)

Max Uplift 11=-283(LC 9), 7=-251(LC 9) Max Grav 11=5172(LC 1), 7=4418(LC 1)

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

TOP CHORD $1-2 = -3637/240, \ 2-3 = -3001/256, \ 3-4 = -2999/254, \ 4-5 = -3601/241, \ 1-11 = -3816/225, \ 3-4 = -2999/254, \ 4-5 = -3601/241, \ 1-11 = -3816/225, \ 3-4 = -2999/254, \ 4-5 = -3601/241, \ 1-11 = -3816/225, \ 3-4 = -2999/254, \ 4-5 = -3601/241, \ 1-11 = -3816/225, \ 3-4 = -2999/254, \ 4-5 = -3601/241, \ 1-11 = -3816/225, \ 3-4 = -2999/254, \ 4-5 = -3601/241, \ 1-11 = -3816/225, \ 3-4 = -2999/254, \ 4-5 = -3601/241, \ 1-11 = -3816/225, \ 3-4 = -2999/254, \ 4-5 = -3601/241, \ 1-11 = -3816/225, \ 3-4 = -2999/254, \ 4-5 = -3601/241, \ 1-11 = -3816/225, \ 3-4 = -2999/254, \ 4-5 = -3601/241, \ 1-11 = -3816/225, \ 3-4 = -2999/254, \ 4-5 = -3601/241, \ 1-11 = -3816/225, \ 3-4 = -2999/254, \ 4-5 = -3601/241, \ 1-11 = -3816/225, \ 3-4 = -2999/254, \ 4-5 = -3601/241, \ 1-11 = -3816/225, \ 3-4 = -2999/254, \ 4-5 = -3601/241, \ 1-11 = -3816/225, \ 3-4 = -2999/254, \ 4-5 = -3601/241, \ 3-4 = -2999/254, \ 4-5 = -3601/241, \ 3-4 = -2999/254, \ 4-5 = -3601/241, \ 3-4 = -2999/254, \ 4-5 = -3601/241, \ 3-4 = -2999/254, \ 4-5 = -3601/241, \ 3-4 = -2999/254, \ 4-5 = -3601/241, \ 3-4 = -2999/254, \ 4-5 = -3601/241, \ 3-4 = -2999/254, \ 4-5 = -3601/241, \ 3-4 = -2999/254, \ 4-5 = -3601/241, \ 3-4 = -2999/254, \ 4-5 = -3601/241, \ 3-4 = -2999/254, \ 4-5 = -3601/241, \ 3-4 = -2999/254, \ 4-5 = -3601/241, \ 3-4 = -2999/254, \ 4-5 = -3601/241, \ 3-4 = -2999/254, \ 3-4 = -299/254, \ 3-4 = -299/254, \ 3-4 = -299/254, \ 3-4 = -299/254, \ 3$

5-7=-3878/237

BOT CHORD 10-11=-166/312, 9-10=-192/2739, 8-9=-117/2703

WEBS 3-9=-261/3568, 4-9=-762/138, 4-8=-93/885, 2-9=-823/138, 2-10=-91/945,

1-10=-140/2879, 5-8=-128/2891

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.

Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-7-0 oc. Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

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

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

4) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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

11=283 7=251 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1424 lb down and 87 lb up at 0-10-4, 1420 lb down and 91 lb up at 2-10-4, 1420 lb down and 91 lb up at 4-10-4, 1420 lb down and 91 lb up at 6-10-4, and 1420 lb down and 91 lb up at 8-10-4, and 1420 lb down and 91 lb up at 10-10-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard



Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 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 chorembers 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, rerection 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 56 SERENITY - ROOF 157060758 COMMON GIRDER 35873-35873A C3G

84 Components (Dunn, NC),

Dunn, NC - 28334,

| **2** | Job Reference (optional) 8.630 s Nov 19 2022 MiTek Industries, Inc. Wed Mar 8 10:43:36 2023 Page 2 ID:nxbot3WsxlSjrAw_FcBFB3yorwP-icZ2AQ6wR3kAN0K5?xBcVMiloJnCVmgE9rMN_szd?p5

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-60, 3-5=-60, 5-6=-60, 7-11=-20

Concentrated Loads (lb)

Vert: 12=-1424(F) 13=-1420(F) 14=-1420(F) 15=-1420(F) 16=-1420(F) 17=-1420(F)



818 Soundside Road Edenton, NC 27932

Job Truss Truss Type Qty 56 SERENITY - ROOF 157060759 35873-35873A D1E Common Supported Gable Job Reference (optional)

84 Components (Dunn, NC),

-0-11₋₀

Dunn, NC - 28334,

19-11-8

8.630 s Nov 19 2022 MiTek Industries, Inc. Wed Mar 8 10:43:38 2023 Page 1

ID:nxbot3WsxlSjrAw_FcBFB3yorwP-e?gpb68Bzh_tdKUU6ME4ann7e7b5zolXd8rT3kzd?p3 19-11-8

Scale = 1:71.4

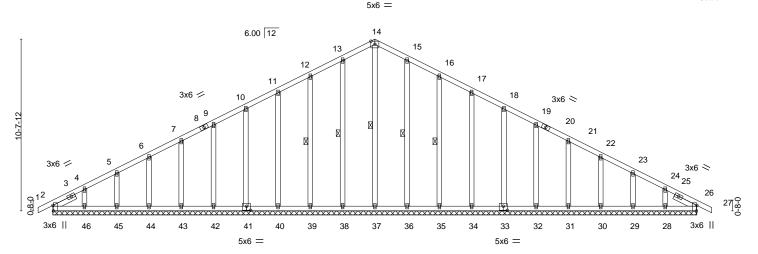


Plate Offsets (X,Y)--[2:0-4-1,Edge], [26:0-4-1,Edge], [33:0-3-0,0-3-0], [41:0-3-0,0-3-0] SPACING-LOADING (psf) DEFL. in (loc) I/defI L/d **PLATES** GRIP TCLL 20.0 Plate Grip DOL 1.15 TC 0.06 Vert(LL) -0.00 26 120 244/190 n/r MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.03 Vert(CT) -0.00 26 n/r 90 **BCLL** 0.0 Rep Stress Incr YES WB 0.11 Horz(CT) 0.01 26 n/a n/a Code IRC2015/TPI2014 **BCDL** 10.0 Weight: 285 lb FT = 20%Matrix-S

LUMBER-

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

14-37,13-38,12-39,11-40,10-41,15-36,16-35,17-34,18-33: 2x4 SP No.2

SLIDER Left 2x4 SP No.3 1-6-7, Right 2x4 SP No.3 1-6-7 BRACING-

TOP CHORD **BOT CHORD WEBS**

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

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

1 Row at midpt 14-37, 13-38, 12-39, 15-36, 16-35

REACTIONS. All bearings 39-11-0.

Max Horz 2=-148(LC 11) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 38, 39, 40, 41, 42, 43, 44, 45, 46, 36, 35, 34, 33, 32, 31,

30, 29, 28

Max Grav All reactions 250 lb or less at joint(s) 2, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 36, 35, 34, 33,

32, 31, 30, 29, 28, 26

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

13-14=-103/259, 14-15=-103/259 TOP CHORD

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; 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) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 38, 39, 40, 41, 42, 43, 44, 45, 46, 36, 35, 34, 33, 32, 31, 30, 29, 28.



March 8,2023

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

AMSI/TPI1 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 56 SERENITY - ROOF 157060760 35873-35873A D2 Common Job Reference (optional) 8.630 s Nov 19 2022 MiTek Industries, Inc. Wed Mar 8 10:43:40 2023 Page 1 84 Components (Dunn, NC), Dunn, NC - 28334, ID:nxbot3WsxlSjrAw_FcBFB3yorwP-bNoZ0o9RVIEbsdesEnGYgCsHlw2yRcMq4SKa7dzd?p1 39-11-0 13-4-13 26-6-3 33-0-13 -0-11-0 0-11-0 6-10-3 6-6-11 6-6-11 6-6-11 6-6-11 6-10-3 0-11-b Scale = 1:71.2 5x6 = 6.00 12 6 2x4 \\ 2x4 // 10

10-1-8		19-11-8	29-9-8	39-11-0
10-1-8		9-10-0	9-10-0	10-1-8
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.89 BC 0.90 WB 0.43 Matrix-MS	Vert(LL) -0.36 16-18 >999 2 Vert(CT) -0.62 16-18 >771	L/d PLATES GRIP 240 MT20 244/190 180 19/a Weight: 213 lb FT = 20%

16

3x8 =

BRACING-

WEBS

TOP CHORD

BOT CHORD

15

4x6 =

1 Row at midpt

14

Structural wood sheathing directly applied or 2-2-0 oc purlins.

8-16, 6-16

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

LUMBER-

2x4 SP No.2 *Except* TOP CHORD 1-5,9-13: 2x4 SP No.1

3x8 ||

BOT CHORD 2x4 SP No.1 WEBS 2x4 SP No.2 *Except*

10-14,4-18: 2x4 SP No.3

SLIDER Left 2x4 SP No.3 1-6-0, Right 2x4 SP No.3 1-6-0

REACTIONS. (size) 2=0-5-8, 12=0-5-8

Max Horz 2=-148(LC 15)

Max Uplift 2=-103(LC 10), 12=-103(LC 11) Max Grav 2=1652(LC 1), 12=1652(LC 1)

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

TOP CHORD 2-4=-2783/482, 4-6=-2554/468, 6-7=-1851/427, 7-8=-1851/427, 8-10=-2554/468,

18

17

4x6 =

10-12=-2783/482

BOT CHORD 2-18=-319/2409, 16-18=-190/2035, 14-16=-190/2035, 12-14=-319/2409

WEBS 7-16=-226/1277, 8-16=-705/233, 8-14=-14/494, 10-14=-307/183, 6-16=-705/233,

6-18=-14/494, 4-18=-307/183

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; 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 3x6 MT20 unless otherwise indicated.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=103, 12=103.



March 8,2023

3x8 ||

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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AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



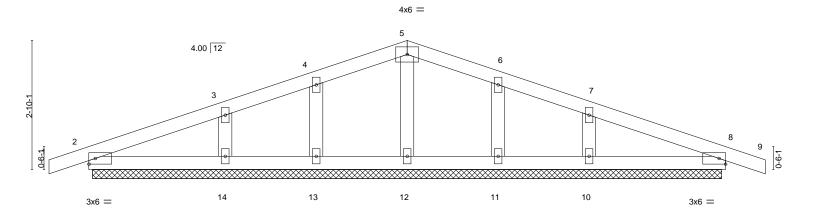
Job Truss Truss Type Qty Ply 56 SERENITY - ROOF 157060761 35873-35873A E1E Common Supported Gable Job Reference (optional) 8.630 s Nov 19 2022 MiTek Industries, Inc. Wed Mar 8 10:43:42 2023 Page 1 84 Components (Dunn, NC), Dunn, NC - 28334, ID:nxbot3WsxlSjrAw_FcBFB3yorwP-XmwJQUBh1vUJ5xnFLCl0ldyoJkyXvc?7YmphCVzd?p? 7-0-0 7-0-0

7-0-0

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

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

0-10-8 Scale = 1:25.3



0- <u>1-0</u> 0-1-0			14-0-0 13-11-0				
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.08 BC 0.06 WB 0.03 Matrix-S	DEFL. in Vert(LL) 0.00 Vert(CT) 0.00 Horz(CT) 0.00	(loc) l/defl 9 n/r 9 n/r 8 n/a	L/d 120 90 n/a	PLATES MT20 Weight: 57 lb	GRIP 244/190 FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

OTHERS

0-10-8

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

REACTIONS. All bearings 13-10-0. Max Horz 2=-37(LC 11) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 8, 13, 14, 11, 10 Max Grav All reactions 250 lb or less at joint(s) 2, 8, 12, 13, 14, 11, 10

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

NOTES-

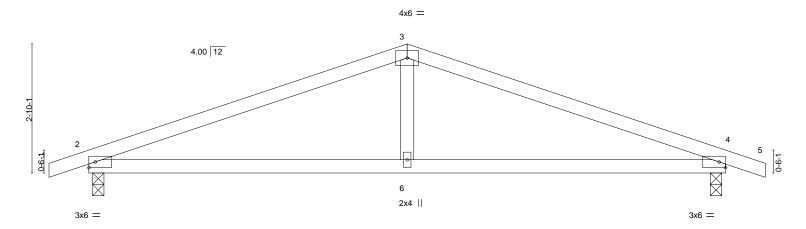
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; 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 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.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8, 13, 14, 11, 10
- 9) Non Standard bearing condition. Review required.





JOD	ITUSS	Truss Type	Qty	Ply	30 SEREINITT - ROOF				
35873-35873A	E2	Common	4	1		157060762			
					Job Reference (optional)				
84 Components (Dunn, NC),	Dunn, NC - 28334,		8.630 s Nov 19 2022 MiTek Industries, Inc. Wed Mar 8 10:43:43 2023 Page 1						
			ID:nxbot3WsxlSji	Aw_FcBF	B3yorwP-?yUieqCKnDcAj5MRvvpFHrUqA8Bne2yGmQ2	ZEkyzd?p_			
-0-10-8	7-0	-0	•		14-0-0	14-10-8			
0-10-8	7-0	-0			7-0-0	0-10-8			

Scale = 1:25.3



0- <u>1₋0</u>	7-0-0				13-11-0		14 _Τ Q-0
0-4'-0	6-11-0		<u> </u>		6-11-0		0-ካ-0
LOADING (psf) TCLL 20.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	CSI. TC 0.65 BC 0.51		(loc) I/defl 6-12 >999 6-12 >999	L/d 240 180	PLATES MT20	GRIP 244/190
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code IRC2015/TPI2014	WB 0.12 Matrix-MS	Horz(CT) 0.01	2 n/a	n/a	Weight: 49 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

2=0-3-0, 4=0-3-0 (size) Max Horz 2=-37(LC 15) Max Uplift 2=-70(LC 6), 4=-70(LC 7) Max Grav 2=613(LC 1), 4=613(LC 1)

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

2-3=-983/183, 3-4=-983/183 TOP CHORD BOT CHORD 2-6=-96/871, 4-6=-96/871

WEBS 3-6=0/304

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.



Structural wood sheathing directly applied or 4-5-2 oc purlins.

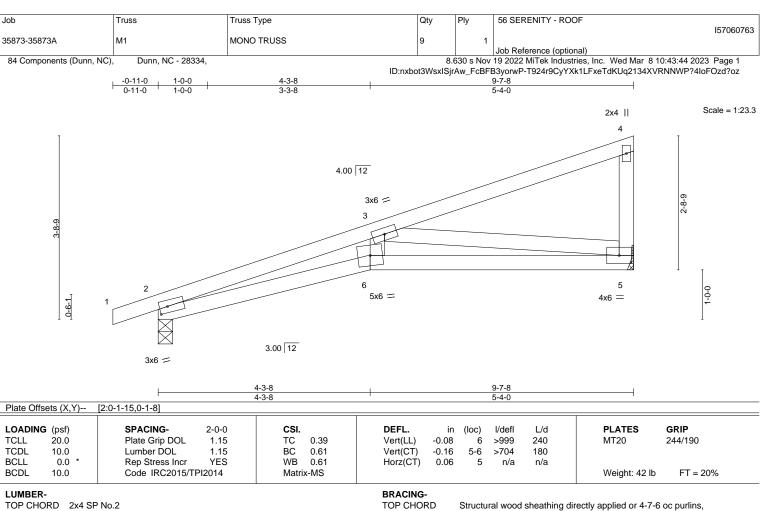
Rigid ceiling directly applied or 10-0-0 oc bracing.

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

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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





BOT CHORD

except end verticals.

Rigid ceiling directly applied or 9-8-1 oc bracing.

LUMBER-

REACTIONS.

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

WEBS 2x4 SP No.3

> Max Horz 2=108(LC 7) Max Uplift 5=-53(LC 10), 2=-62(LC 6) Max Grav 5=377(LC 1), 2=437(LC 1)

(size) 5=Mechanical, 2=0-3-8

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

TOP CHORD 2-3=-1423/357

BOT CHORD 2-6=-370/1341, 5-6=-354/1227 WFBS 3-6=-18/392, 3-5=-1184/381

NOTES-

- 1) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; 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.
- 4) Refer to girder(s) for truss to truss connections
- 5) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2.





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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 Type Qty Ply 56 SERENITY - ROOF 157060764 35873-35873A M1GE **GABLE** Job Reference (optional) 84 Components (Dunn, NC), Dunn, NC - 28334, 8.630 s Nov 19 2022 MiTek Industries, Inc. Wed Mar 8 10:43:46 2023 Page 1 ID:nxbot3WsxlSjrAw_FcBFB3yorwP-PX9qGrEC48_laY50a1NyvT6QLLHzrQ8iTOnuKGzd?ox -0-11-0 0-11-0 1-0-0 3-3-8 5-4-0 Scale = 1:23.5 2x4 || 4 2x4 || 4.00 12 4x6 = 2-8-9 2x4 || 2x4 || П 2x4 = 5 9 4x6 = 0-6-1 2x4 II 3x6 =2x4 || 4-3-8 LOADING (psf) SPACING-CSI. DEFL. I/defI L/d **PLATES** GRIP 2-0-0 (loc) 20.0 -0.02 7-14 240 244/190 **TCLL** Plate Grip DOL 1.15 TC 0.34 Vert(LL) >999 MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.22 Vert(CT) -0.05 7-14 >999 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.02 Horz(CT) 0.01 2 n/a n/a **BCDL** 10.0 Code IRC2015/TPI2014 Matrix-MS Weight: 46 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 2x4 SP No.2

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

REACTIONS.

(size) 5=Mechanical, 2=0-3-8, 7=0-3-8

Max Horz 2=108(LC 7)

Max Uplift 5=-15(LC 10), 2=-34(LC 6), 7=-68(LC 10) Max Grav 5=148(LC 1), 2=257(LC 1), 7=408(LC 1)

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

BOT CHORD 6-7=-341/138, 3-6=-300/165

NOTES-

- 1) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; 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.
- Gable studs spaced at 2-0-0 oc.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2, 7.



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

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

except end verticals.



Job Truss Truss Type Qty Ply 56 SERENITY - ROOF 157060765 35873-35873A M2GE **GABLE** Job Reference (optional) 84 Components (Dunn, NC), Dunn, NC - 28334, 8.630 s Nov 19 2022 MiTek Industries, Inc. Wed Mar 8 10:43:47 2023 Page 1 ID:nxbot3WsxlSjrAw_FcBFB3yorwP-ukjCUBFqrS6cCigC8luBShfb_lbkao5sh2XSsjzd?ow 10-10-0 -0-10-8 0-10-8 5-10-6 4-11-10 Scale = 1:22.4 4.00 12 3x6 = 3 6 3x6 = 53x6 =0-<u>1-12</u> 0-1-12 5-10-6 10-10-0 5-8-10 LOADING (psf) SPACING-2-0-0 CSI. DEFL. L/d **PLATES** GRIP (loc) I/defl 20.0 Plate Grip DOL Vert(LL) -0.02 6-17 240 244/190 **TCLL** 1.15 TC 0.34 >999 MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.32 Vert(CT) -0.06 6-17 >999 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.36 Horz(CT) 0.01 5 n/a n/a Code IRC2015/TPI2014 **BCDL** 10.0 Matrix-MS Weight: 59 lb FT = 20% BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 2x4 SP No.2

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

REACTIONS.

(size) 2=0-4-8, 5=Mechanical

Max Horz 2=138(LC 9)

Max Uplift 2=-66(LC 6), 5=-58(LC 10) Max Grav 2=482(LC 1), 5=425(LC 1)

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

TOP CHORD 2-3=-704/146

BOT CHORD 2-6=-119/622, 5-6=-119/622

WFBS 3-5=-667/191

NOTES-

- 1) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; 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.
- All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable studs spaced at 2-0-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 5.



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

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

except end verticals.

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AMSI/TPI1 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 56 SERENITY - ROOF 157060766 35873-35873A M3 Monopitch 2 Job Reference (optional) 84 Components (Dunn, NC), Dunn, NC - 28334, 8.630 s Nov 19 2022 MiTek Industries, Inc. Wed Mar 8 10:43:48 2023 Page 1 ID:nxbot3WsxlSjrAw_FcBFB3yorwP-MwHahXGSclETqsFPiSPQ_uCmk9xzJFK?wiG?O9zd?ov 0-10-8 5-10-6 4-11-10 Scale = 1:25.0 2x4 || 4 4.00 12 3x6 = 3 6 2x4 || 5 3x6 =3x6 = 5-10-6 10-10-0 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 20.0 Plate Grip DOL 1.15 TC Vert(LL) -0.02 240 244/190 **TCLL** 0.34 6-9 >999 MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.32 Vert(CT) -0.06 6-9 >999 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.36 Horz(CT) 0.01 5 n/a n/a Code IRC2015/TPI2014 BCDL 10.0 Matrix-MS Weight: 50 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x4 SP No.3

REACTIONS. 2=0-4-8, 5=Mechanical (size)

Max Horz 2=138(LC 9)

Max Uplift 2=-66(LC 6), 5=-58(LC 10) Max Grav 2=482(LC 1), 5=425(LC 1)

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

TOP CHORD 2-3=-704/146

BOT CHORD 2-6=-119/622, 5-6=-119/622

WEBS 3-5=-667/191

NOTES-

- 1) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; 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.
- 4) Refer to girder(s) for truss to truss connections
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 5.

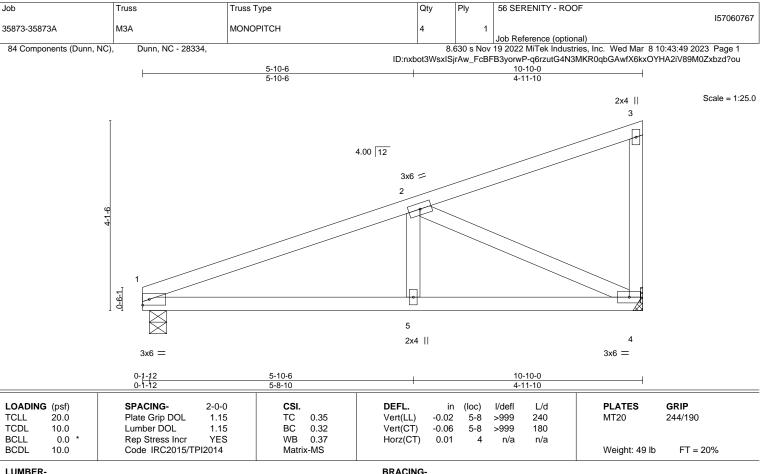




Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.



TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x4 SP No.3

REACTIONS. 1=0-4-8, 4=Mechanical (size)

Max Horz 1=133(LC 9)

Max Uplift 1=-37(LC 6), 4=-59(LC 10) Max Grav 1=428(LC 1), 4=428(LC 1)

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

TOP CHORD 1-2=-712/152

BOT CHORD 1-5=-125/629, 4-5=-125/629

WEBS 2-4=-676/197

NOTES-

- 1) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; 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.
- 4) Refer to girder(s) for truss to truss connections
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 4.



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

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

except end verticals.



Job Truss Truss Type Qty 56 SERENITY - ROOF 157060768 35873-35873A M3GE MONOPITCH STRUCTURAL Job Reference (optional) 8.630 s Nov 19 2022 MiTek Industries, Inc. Wed Mar 8 10:43:50 2023 Page 1 84 Components (Dunn, NC), Dunn, NC - 28334, ID:nxbot3WsxlSjrAw_FcBFB3yorwP-IIPL6DHj8NUA3APnptRu3JH9oyfGnEUIN0I6T2zd?ot 3-8-0 Scale = 1:11.4 2 2x4 📙 4.00 12 3 2x4 || 3x6 =3-8-0 LOADING (psf) SPACING-2-0-0 CSI. DEFL. L/d **PLATES** GRIP (loc) I/def 20.0 Plate Grip DOL Vert(LL) -0.01 240 244/190 **TCLL** 1.15 TC 0.18 3-6 >999 MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.14 Vert(CT) -0.02 >999 180 3-6 **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.00 n/a n/a Code IRC2015/TPI2014 **BCDL** 10.0 Matrix-MP Weight: 13 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

WEBS 2x4 SP No.3

> (size) 1=0-4-8, 3=Mechanical Max Horz 1=47(LC 9)

Max Uplift 1=-12(LC 6), 3=-20(LC 10)

Max Grav 1=141(LC 1), 3=141(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; 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 studs spaced at 2-0-0 oc.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



Structural wood sheathing directly applied or 3-8-0 oc purlins,

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

except end verticals.



Job Truss Truss Type Qty 56 SERENITY - ROOF 157060769 35873-35873A V1 **GABLE** Job Reference (optional) 8.630 s Nov 19 2022 MiTek Industries, Inc. Wed Mar 8 10:43:51 2023 Page 1 84 Components (Dunn, NC), Dunn, NC - 28334, ID:nxbot3WsxISjrAw_FcBFB3yorwP-mVzjJZILvgc1hKz_Nbz7cXqHpM0qWh9RcgVf?Uzd?os 3-11-15 3-11-15 Scale = 1:14.9 4x6 =2 6.00 12 3 0-0-4 7-0<u>-</u>0 4 3x6 / 2x4 || 3x6 < 7-11-14 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 20.0 Plate Grip DOL 1.15 TC Vert(LL) 999 244/190 **TCLL** 0.36 n/a n/a MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.11 Vert(CT) n/a n/a 999 **BCLL** 0.0 Rep Stress Incr YES WB 0.04 Horz(CT) 0.00 3 n/a n/a Code IRC2015/TPI2014 BCDL 10.0 Matrix-P Weight: 25 lb FT = 20% LUMBER-**BRACING-**

TOP CHORD

BOT CHORD

TOP CHORD 2x4 SP No.3 2x4 SP No.2

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

REACTIONS.

1=7-11-14, 3=7-11-14, 4=7-11-14 (size) Max Horz 1=24(LC 14) Max Uplift 1=-21(LC 10), 3=-25(LC 11)

Max Grav 1=136(LC 1), 3=136(LC 1), 4=266(LC 1)

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

NOTES-

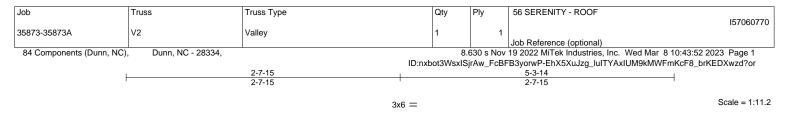
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.

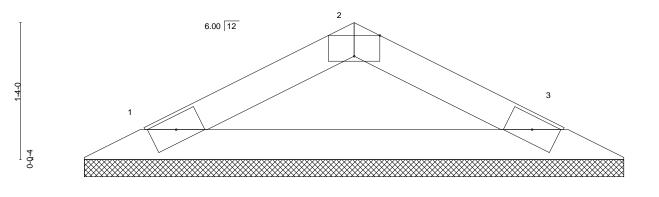


Structural wood sheathing directly applied or 6-0-0 oc purlins.

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







0-0-8 0-0-8 Plate Offsets (X,Y)--[2:0-3-0,Edge]

	.0 .0 .0 *	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES	CSI. TC BC WB	0.12 0.21 0.00	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 3	I/defI n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	GRIP 244/190
BCDL 10	.0	Code IRC2015/TF	PI2014	Matri	х-Р						Weight: 15 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.3 BOT CHORD 2x4 SP No.2 BRACING-

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 5-3-14 oc purlins.

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

3x6 >

REACTIONS.

1=5-2-14, 3=5-2-14 (size) Max Horz 1=-15(LC 11) Max Uplift 1=-9(LC 10), 3=-9(LC 11) Max Grav 1=163(LC 1), 3=163(LC 1)

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

3x6 /

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



0-0-4



Job Truss Truss Type Qty 56 SERENITY - ROOF 157060771 35873-35873A V3 Valley Job Reference (optional) 84 Components (Dunn, NC), Dunn, NC - 28334, 8.630 s Nov 19 2022 MiTek Industries, Inc. Wed Mar 8 10:43:54 2023 Page 1 ID:nxbot3WsxlSjrAw_FcBFB3yorwP-A4esyaKDCb?cYniZ2jWqE9SriZ1Pj2UulejJcpzd?op 5-8-5 5-8-5 5-8-5 Scale = 1:30.7 4x6 = 3 10.00 12 2x4 || 2x4 || 3x6 / 8 7 6 3x6 💉 2x4 || 2x4 || 2x4 || 11-4-11 11-4-6 LOADING (psf) SPACING-2-0-0 CSI. DEFL. L/d **PLATES** GRIP (loc) I/defl 20.0 Plate Grip DOL 1.15 999 244/190 **TCLL** TC 0.19 Vert(LL) n/a n/a MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.12 Vert(CT) n/a 999 n/a **BCLL** 0.0 Rep Stress Incr YES WB 0.06 Horz(CT) 0.00 5 n/a n/a Code IRC2015/TPI2014 **BCDL** 10.0 Matrix-S Weight: 46 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 2x4 SP No.2

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

REACTIONS. All bearings 11-4-1.

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-129(LC 10), 6=-129(LC 11) Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=316(LC 17), 6=316(LC 18)

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

2-8=-257/175, 4-6=-257/175 WEBS

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=129, 6=129,



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

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

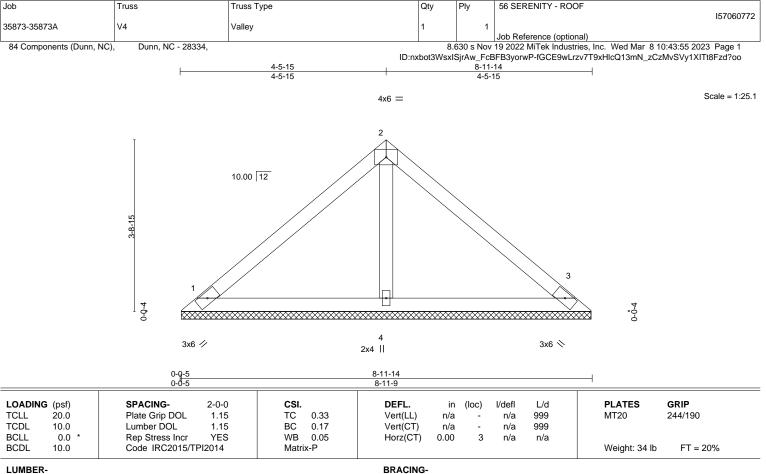


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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

AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

OTHERS 2x4 SP No.3

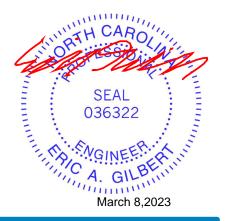
> 1=8-11-4, 3=8-11-4, 4=8-11-4 (size) Max Horz 1=72(LC 7) Max Uplift 1=-26(LC 11), 3=-35(LC 11)

Max Grav 1=188(LC 1), 3=188(LC 1), 4=279(LC 1)

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=120mph Vasd=95mph; 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



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

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

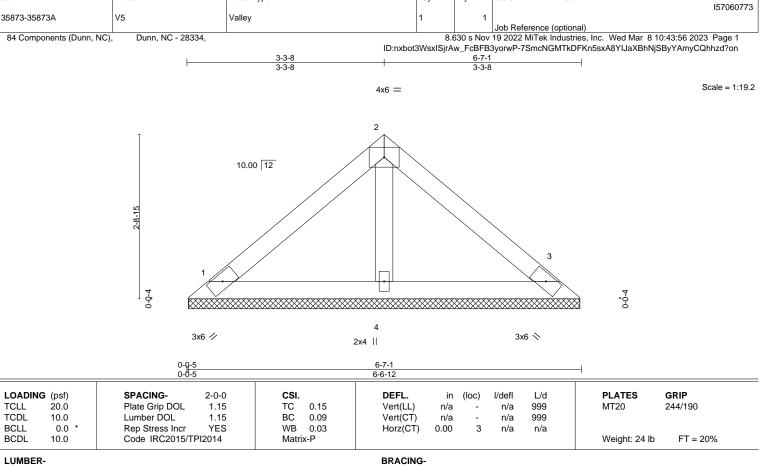


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TOP CHORD

BOT CHORD

Qty

Ply

56 SERENITY - ROOF

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

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

LUMBER-

Job

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

OTHERS 2x4 SP No.3

REACTIONS. 1=6-6-7, 3=6-6-7, 4=6-6-7 (size) Max Horz 1=-51(LC 6) Max Uplift 1=-18(LC 11), 3=-25(LC 11)

Truss

Truss Type

Max Grav 1=133(LC 1), 3=133(LC 1), 4=197(LC 1)

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=120mph Vasd=95mph; 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.

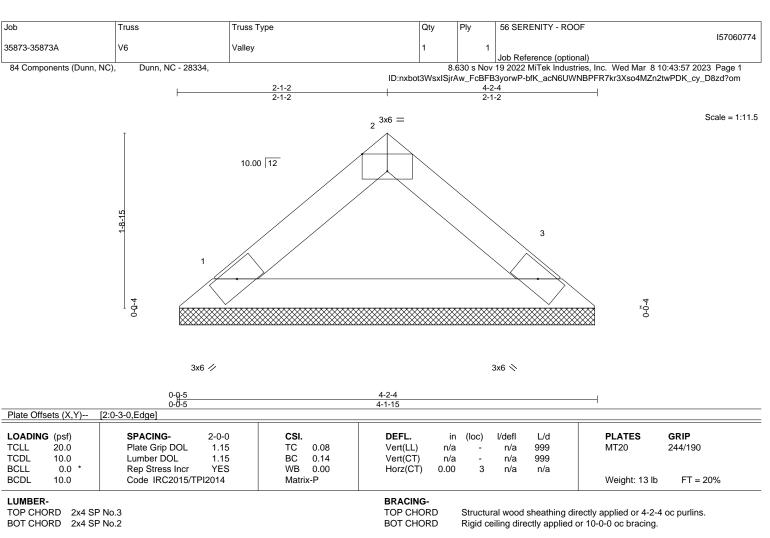


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REACTIONS. 1=4-1-11, 3=4-1-11 (size)

Max Horz 1=30(LC 9)

Max Uplift 1=-5(LC 10), 3=-5(LC 11) Max Grav 1=135(LC 1), 3=135(LC 1)

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=120mph Vasd=95mph; 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



Symbols

PLATE LOCATION AND ORIENTATION



offsets are indicated. Center plate on joint unless x, y and fully embed teeth Apply plates to both sides of truss Dimensions are in ft-in-sixteenths



edge of truss. plates 0- 1/16" from outside For 4 x 2 orientation, locate

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

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

PLATE SIZE



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

LATERAL BRACING LOCATION



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

BEARING



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

Industry Standards:

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

DSB-89: ANSI/TPI1:

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

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

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

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

General Safety Notes

Damage or Personal Injury Failure to Follow Could Cause Property

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Ņ Truss bracing must be designed by an engineer. For bracing should be considered. may require bracing, or alternative Tor I wide truss spacing, individual lateral braces themselves
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.

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designer, erection supervisor, property owner and all other interested parties. Provide copies of this truss design to the building

4.

- 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.

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- 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

φ.

- 9 Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the camber for dead load deflection. responsibility of truss fabricator. General practice is to
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that
- 13. Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted
- Connections not shown are the responsibility of others
- Do not cut or 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 project engineer before use. environmental, health or performance risks. Consult with
- Review all portions of this design (front, back, words is not sufficient. and pictures) before use. Reviewing pictures alone
- 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.