

Truss Connector Total List		
Manuf	Product	Qty
	HUS26	12
	JUS24	9
	MUS26	9
	THDH410	3

ROOF TRUSS LAYOUT
SCALE: 1/4" = 1'-0"

TRUSSES @ 24"o.c. (MAX)

**APPROVAL REQUIRED.
NOT FOR CONSTRUCTION.**

JOB SPECIFIC NOTES

- A) ANY FRAMING NOT SHOWN ON THIS LAYOUT IS BY OTHERS.
- B) ANY CONNECTION NOT SHOWN ON THIS LAYOUT IS BY OTHERS.
- C) HANGERS SUPPLIED BY BOISE CASCADE ARE MANUFACTURED BY USP.

GENERAL NOTES:

- 1) FOR BRACING REQUIREMENTS & ERECTION INFORMATION SEE T.P.I. PUBLICATION BCSI-B2.
- 2) BRACING STOCK (2x4 MIN) NOT SUPPLIED BY BOISE CASCADE.
- 3) SEE TRUSS ENGINEERING FOR ADDITIONAL INFORMATION.
- 4) ALL DIMENSIONS, DESIGN LOADS & TRUSS QUANTITIES MUST BE VERIFIED PRIOR TO FABRICATION.
- 5) ADDITIONAL FRAMING AS REQUIRED BY OTHERS.
- 6) THIS DRAWING IS INTENDED TO SERVE AS A LAYOUT GUIDE FOR THE TRUSS ERECTION CREW TO ENSURE PROPER PLACEMENT & SPACING OF TRUSSES. THIS IS NOT A COMPLETE FRAMING PLAN.
- 7) FINAL APPROVAL OF THIS LAYOUT & THE TRUSS COMPONENTS TO BE SUPPLIED FOR COMPLIANCE WITH PROJECT SPECIFICATIONS REMAINS THE RESPONSIBILITY OF THE ARCHITECT & ENGINEER OF RECORD.
- 8) VALLEY BY CONTRACTOR; VALLEY MUST BE FRAMED TO ENSURE UNIFORM DISTRIBUTION OF LIVE & DEAD LOADS. TOP CHORDS OF THE TRUSSES BELOW MUST BE LATERALLY BRACED BY MEANS OF SHEATHING OR PURLINS @ 24"O.C. MAX.
- 9) SOME HANGERS AND UPLIFT CONNECTORS CANNOT BE PROPERLY INSTALLED AFTER SETTING TRUSSES AND/OR ROOF SHEATHING.
- 10) BOISE CASCADE WILL ASSUME NO RESPONSIBILITY FOR ANY DEVIATION FROM THE CONTENT OF THESE DRAWINGS WITH REGARDS TO ANY STRUCTURAL MEMBERS THAT ARE MADE WITHOUT WRITTEN AUTHORIZATION FROM BOISE CASCADE.
- 11) BOISE CASCADE WILL NOT ACCEPT ANY BACK CHARGES FOR REPAIRS OR MODIFICATIONS WITHOUT NOTIFICATION PRIOR TO WORK BEING DONE WITHOUT REASONABLE OPPORTUNITY TO REVIEW PROBLEM. BACK CHARGES MUST BE AGREED UPON BY ALL PARTIES PRIOR TO WORK BEING DONE.

DIMENSION KEY
Feet Inches
(12) (6) (8)
Sixteenths

LOADING CHART (psf)
TCLL = 46.2
(60# Ground Snow)
TCDL = 10.0
BCLL = 0.0
BCDL = 10.0

CUSTOMER: Eldredge Lumber/ Portland
JOB NAME: Query Residence
ADDRESS: Portland, Me.

DRAWN BY: cf
SCALE: 1/4" = 1'-0"
DATE: 09/18/2017
REVISED:

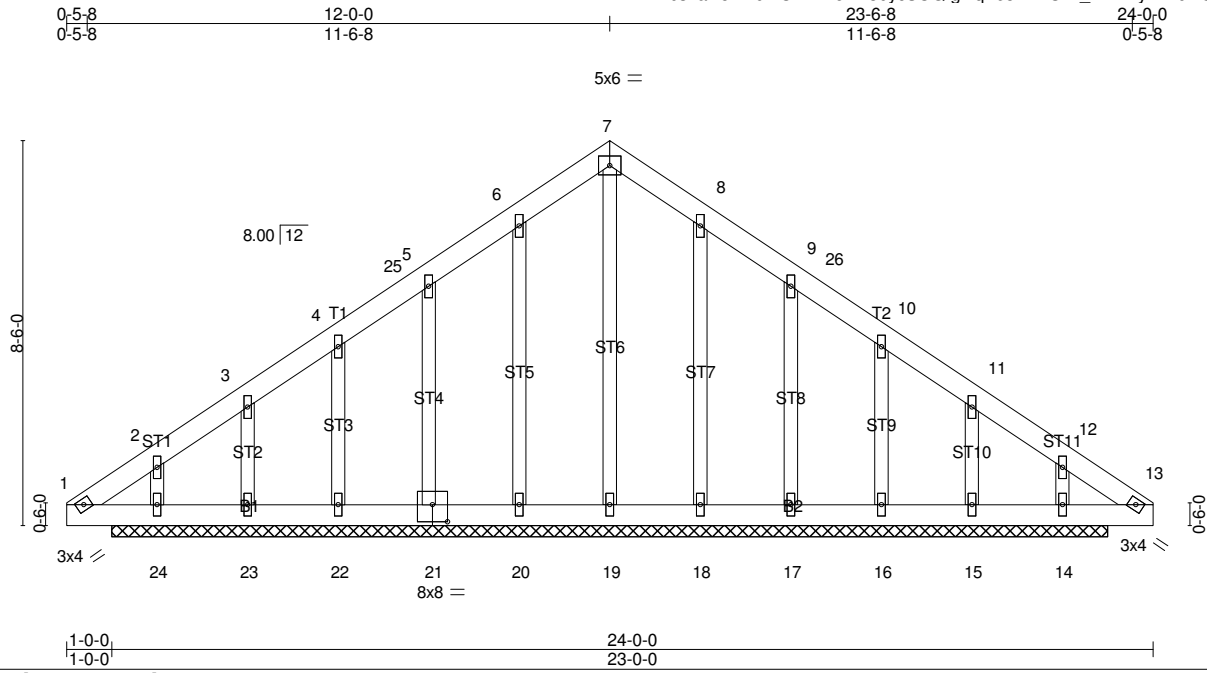
JOB #: 690396
1/1

**Boise Cascade
Materials Distribution
"Structural Solutions"**
20 Pomerleau Street
Biddeford, Maine 04005
PH 1-877-291-5276
FX 1-877-782-9599

Job	Truss	Truss Type	Qty	Ply	
690396	001	GESI	1	1	A_MGE_E137787_9/18/2017 12:15:53 PM Job Reference (optional)

Boise Structural Solutions, Biddeford, ME 04005, Chipper Roberts

Run: 8.110 s Jun 13 2017 Print: 8.110 s Jun 13 2017 MiTek Industries, Inc. Tue Sep 19 15:35:24 2017 Page 1
ID:bsnaw5m?0I7CX11WeElz30ycSOQ-gihqF68BYnUk4_KMxDy4IVf0HQcRqrbJRKdY_yc1q9



Scale = 1:50.9

Plate Offsets (X,Y)-- [21:0-4-0,0-4-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 46.2 (Ground Snow=60.0)	2-0-0 Plate Grip DOL 1.15	TC 0.07	in (loc) l/defl L/d	MT20	169/123
TCDL 10.0	Lumber DOL 1.15	BC 0.10	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.40	Vert(TL) n/a - n/a 999		
BCDL 10.0	Code IBC2009/TPI2007	Matrix-SH	Horz(TL) 0.01 14 n/a n/a		
				Weight: 137 lb	FT = 0%

LUMBER-
TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x6 SPF 1650F 1.5E
OTHERS 2x4 SPF-S No.2

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 22-0-0.
(lb) - Max Horz 24=478(LC 7)
Max Uplift All uplift 100 lb or less at joint(s) 20, 18 except 21=-134(LC 8), 22=-126(LC 8), 23=-339(LC 7), 24=-192(LC 6), 17=-133(LC 9), 16=-130(LC 9), 15=-298(LC 6), 14=-130(LC 7)
Max Grav All reactions 250 lb or less at joint(s) 23, 15 except 19=329(LC 1), 20=385(LC 2), 21=322(LC 2), 22=292(LC 2), 24=456(LC 2), 18=386(LC 3), 17=326(LC 3), 16=289(LC 3), 14=451(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-287/239, 2-3=-281/289, 5-6=-21/364, 6-7=-34/446, 7-8=-36/447, 8-9=-23/364
BOT CHORD 1-24=-220/298, 23-24=-181/258, 22-23=-181/258, 21-22=-181/258, 20-21=-178/258, 19-20=-178/258, 18-19=-178/258, 17-18=-178/258, 16-17=-178/258, 15-16=-178/258, 14-15=-178/258, 13-14=-178/258
WEBS 7-19=-298/0, 6-20=-345/122, 5-21=-287/217, 2-24=-300/162, 8-18=-345/123, 9-17=-291/218, 12-14=-298/164

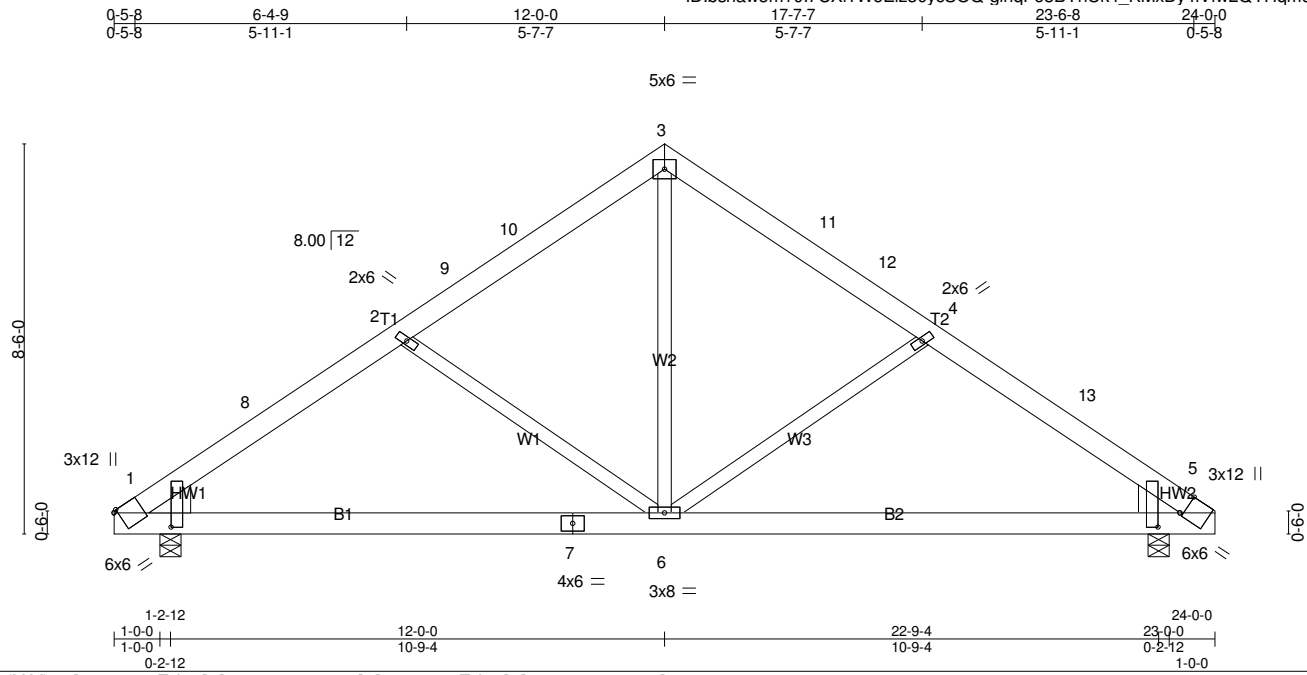
- NOTES-** (12-13)
- Wind: ASCE 7-05; 120mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Corner(3) 0-0-1 to 3-0-1, Exterior(2) 3-0-1 to 9-0-0, Corner(3) 9-0-0 to 12-0-0, Exterior(2) 15-0-0 to 20-11-15 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - TCLL: ASCE 7-05; Pg= 60.0 psf (ground snow); Pf=46.2 psf (flat roof snow); Category II; Exp C; Partially Exp.; Ct=1.1
 - Unbalanced snow loads have been considered for this design.
 - All plates are 2x6 MT20 unless otherwise indicated.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 20, 18 except (jt=lb) 21=134, 22=126, 23=339, 24=192, 17=133, 16=130, 15=298, 14=130.
 - Non Standard bearing condition. Review required.
 - This truss is designed in accordance with the 2009 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - Dimensions are in feet-inches-sixteenths
 - Drawing prepared exclusively for manufacturing by Boise Cascade.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
690396	002	Common	1	1	A_PMT_E137787_9/18/2017 12:15:47 PM Job Reference (optional)

Boise Structural Solutions, Biddeford, ME 04005, Chipper Roberts

Run: 8.110 s Jun 13 2017 Print: 8.110 s Jun 13 2017 MiTek Industries, Inc. Tue Sep 19 15:35:24 2017 Page 1
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Scale = 1:50.2

Plate Offsets (X,Y)-- [1:0-0-13,Edge], [1:0-3-12,1-2-15], [5:0-0-13,Edge], [5:0-3-12,0-5-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 46.2 (Ground Snow=60.0)	2-0-0 Plate Grip DOL 1.15	TC 0.47	Vert(LL) -0.08	5-6	>999	240	MT20	169/123
TCDL 10.0	Lumber DOL 1.15	BC 0.36	Vert(TL) -0.23	5-6	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.75	Horz(TL) 0.04	5	n/a	n/a		
BCDL 10.0	Code IBC2009/TPI2007	Matrix-SH						
							Weight: 121 lb	FT = 0%

LUMBER-
TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x6 SPF 1650F 1.5E
WEBS 2x4 SPF-S No.2
WEDGE
Left: 2x8 SP M 23, Right: 2x8 SP M 23

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 1=1533/0-5-8 (min. 0-2-6), 5=1533/0-5-8 (min. 0-2-6)
Max Horz 1=-478(LC 6)
Max Uplift 1=-476(LC 8), 5=-476(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-2151/740, 2-8=-1993/762, 2-9=-1607/615, 9-10=-1431/630, 3-10=-1407/650,
3-11=-1407/650, 11-12=-1431/630, 4-12=-1607/615, 4-13=-1993/762, 5-13=-2151/740
BOT CHORD 1-7=-462/1658, 6-7=-462/1658, 5-6=-462/1658
WEBS 3-6=-379/974, 4-6=-698/459, 2-6=-698/459

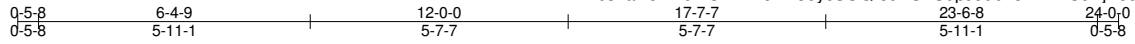
- NOTES-** (8-9)
- 1) Wind: ASCE 7-05; 120mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) 0-5-1 to 3-5-1, Interior(1) 3-5-1 to 9-0-0, Exterior(2) 9-0-0 to 12-0-0, Interior(1) 15-0-0 to 20-6-15 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-05; Pg= 60.0 psf (ground snow); Pf=46.2 psf (flat roof snow); Category II; Exp C; Partially Exp.; Ct=1.1
 - 3) Unbalanced snow loads have been considered for this design.
 - 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) except (jt=lb) 1=476, 5=476.
 - 7) This truss is designed in accordance with the 2009 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 8) Dimensions are in feet-inches-sixteenths
 - 9) Drawing prepared exclusively for manufacturing by Boise Cascade.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
690396	003	Common	1	1	A_MOHC_E137787_9/18/2017 12:15:50 PM Job Reference (optional)

Boise Structural Solutions, Biddeford, ME 04005, Chipper Roberts

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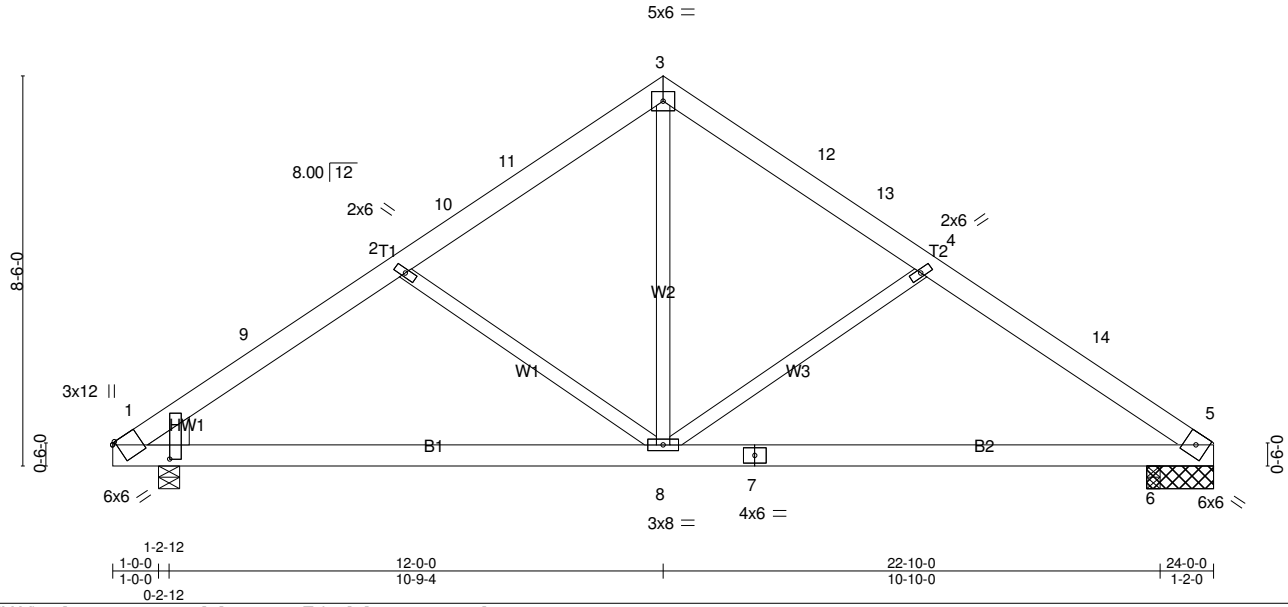


Plate Offsets (X,Y)-- [1:0-3-12,1-2-15], [1:0-0-13,Edge], [5:0-0-0,0-0-1]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 46.2 (Ground Snow=60.0)	2-0-0 Plate Grip DOL 1.15	TC 0.47	in (loc) l/defl L/d	MT20	169/123
TCDL 10.0	Lumber DOL 1.15	BC 0.39	Vert(LL) -0.09 1-8 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.76	Vert(TL) -0.26 1-8 >999 180		
BCDL 10.0	Code IBC2009/TPI2007	Matrix-SH	Horz(TL) 0.04 5 n/a n/a		
				Weight: 118 lb	FT = 0%

LUMBER-
TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x6 SPF 1650F 1.5E
WEBS 2x4 SPF-S No.2
WEDGE
Left: 2x8 SP M 23

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-10-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 5=994/1-5-8 (min. 0-1-9), 1=1527/0-5-8 (min. 0-2-6), 6=600/0-3-8 (min. 0-1-8)
Max Horz 1=-478(LC 6)
Max Uplift 5=365(LC 8), 1=-481(LC 8), 6=-136(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-9=-2130/744, 2-9=-1972/766, 2-10=-1585/618, 10-11=-1409/633, 3-11=-1384/653,
3-12=-1384/653, 12-13=-1401/633, 4-13=-1577/618, 4-14=-1977/778, 5-14=-2179/757
BOT CHORD 1-8=-467/1644, 7-8=-483/1645, 6-7=-483/1645, 5-6=-483/1645
WEBS 2-8=-708/459, 3-8=-382/936, 4-8=-706/475

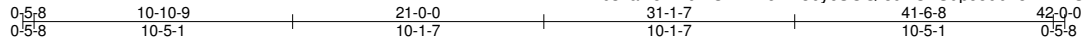
- NOTES-** (8-9)
- 1) Wind: ASCE 7-05; 120mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) 0-5-1 to 3-5-1, Interior(1) 3-5-1 to 9-0-0, Exterior(2) 9-0-0 to 12-0-0, Interior(1) 15-0-0 to 20-11-15 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-05; Pg= 60.0 psf (ground snow); Pf=46.2 psf (flat roof snow); Category II; Exp C; Partially Exp.; Ct=1.1
 - 3) Unbalanced snow loads have been considered for this design.
 - 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) except (jt=lb) 5=365, 1=481, 6=136.
 - 7) This truss is designed in accordance with the 2009 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 8) Dimensions are in feet-inches-sixteenths
 - 9) Drawing prepared exclusively for manufacturing by Boise Cascade.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
690396	004	GESTR	1	1	B_MGE_E137787_9/18/2017 12:16:05 PM Job Reference (optional)

Boise Structural Solutions, Biddeford, ME 04005, Chipper Roberts

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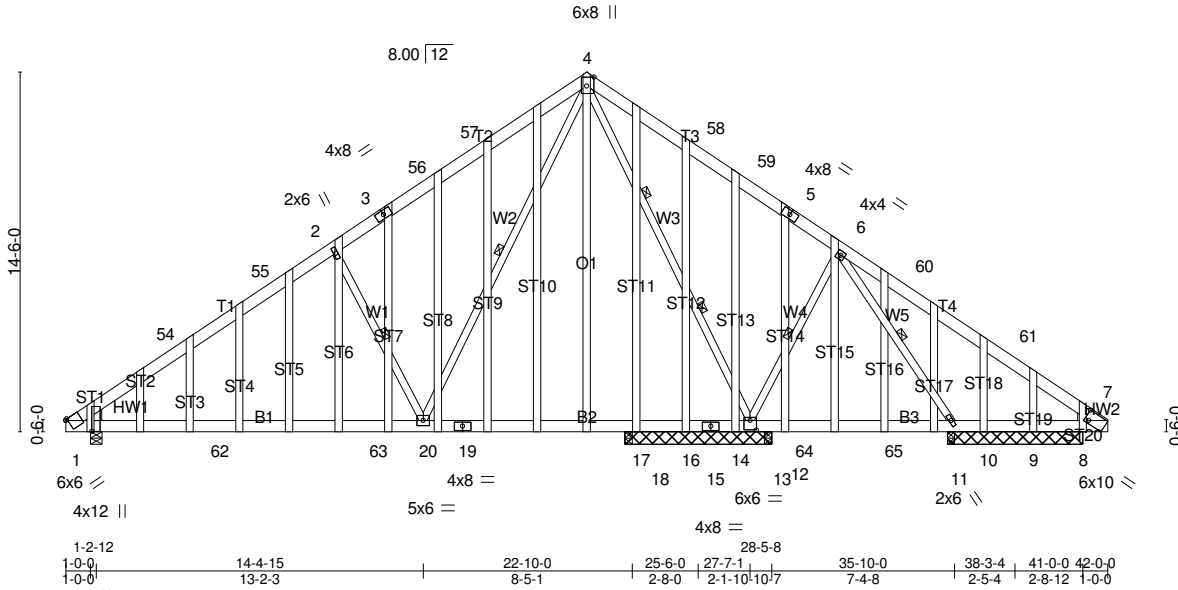


Plate Offsets (X,Y)-- [1:0-5-4,1-0-11], [1:0-0-13,Edge], [4:0-4-4,Edge], [7:0-2-1,0-4-11], [13:0-3-0,0-4-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 46.2 (Ground Snow=60.0) TCDL 10.0 BCLL 0.0 * BCDL 10.0	2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IBC2009/TPI2007	TC 0.97 BC 0.79 WB 0.91 Matrix-SH	in (loc) l/defl L/d Vert(LL) -0.52 1-20 >517 240 Vert(TL) -0.94 1-20 >284 180 Horz(TL) 0.04 8 n/a n/a	MT20	169/123
Weight: 387 lb					FT = 0%

LUMBER-
TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x6 SPF 1650F 1.5E
WEBS 2x4 SPF-S No.2 *Except*
W3: 2x4 SPF 2100F 1.8E, W2,ST10,ST11: 2x4 SPF 1650F 1.5E
OTHERS 2x4 SPF 1650F 1.5E
WEDGE
Left: 2x6 SPF 1650F 1.5E, Right: 2x4 SPF-S No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied or 9-10-14 oc bracing.
WEBS 1 Row at midpt 6-13, 4-20, 2-20, 6-11
2 Rows at 1/3 pts 4-13

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 5-5-8 except (jt=length) 13=5-11-0, 1=0-5-8, 17=5-11-0, 16=5-11-0, 14=5-11-0, 18=0-3-8, 12=0-3-8.
(lb) - Max Horz 1=-838(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) except 13=-1056(LC 8), 1=-566(LC 8), 17=-585(LC 2), 10=-213(LC 1), 9=-204(LC 9), 8=-380(LC 9)
Max Grav All reactions 250 lb or less at joint(s) 16, 14, 10, 9 except 13=2115(LC 1), 1=2063(LC 2), 8=677(LC 3), 11=622(LC 3), 11=476(LC 1), 18=829(LC 2), 12=573(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-54=-2731/736, 54-55=-2528/738, 2-55=-2200/778, 2-3=-2294/883, 3-56=-2050/902, 56-57=-1842/916, 4-57=-1838/944, 4-58=-23/506, 58-59=-28/409, 5-59=-117/396, 5-6=-366/377, 6-60=-25/374, 60-61=-284/338, 7-61=-587/331
BOT CHORD 1-62=-756/2098, 62-63=-756/2098, 20-63=-756/2098, 19-20=-256/716, 18-19=-256/716, 17-18=-256/716, 16-17=-256/716, 15-16=-256/716, 14-15=-256/716, 13-14=-256/716, 12-13=0/428, 12-64=0/428, 64-65=0/428, 11-65=0/428
WEBS 4-13=-2015/459, 6-13=-1091/785, 4-20=-629/1916, 2-20=-1253/763, 6-11=-355/17

- NOTES-** (9-10)
- 1) Wind: ASCE 7-05; 120mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) 0-5-1 to 4-7-7, Interior(1) 4-7-7 to 16-9-10, Exterior(2) 16-9-10 to 21-0-0, Interior(1) 25-2-6 to 37-9-8 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-05; Pg= 60.0 psf (ground snow); Pf=46.2 psf (flat roof snow); Category II; Exp C; Partially Exp.; Ct=1.1
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) Plate(s) at joint(s) 19 checked for a plus or minus 4 degree rotation about its center.
 - 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1056 lb uplift at joint 13, 566 lb uplift at joint 1, 585 lb uplift at joint 17, 213 lb uplift at joint 10, 204 lb uplift at joint 9 and 380 lb uplift at joint 8.
 - 8) This truss is designed in accordance with the 2009 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 9) Dimensions are in feet-inches-sixteenths
 - 10) Drawing prepared exclusively for manufacturing by Boise Cascade.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
690396	005	Common	10	1	B_PMT_E137787_9/18/2017 12:15:58 PM Job Reference (optional)

Boise Structural Solutions, Biddeford, ME 04005, Chipper Roberts

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0-5-8	10-10-9	21-0-0	31-1-7	41-6-8	42-0-0
0-5-8	10-5-1	10-1-7	10-1-7	10-5-1	0-5-8

Scale = 1:87.5

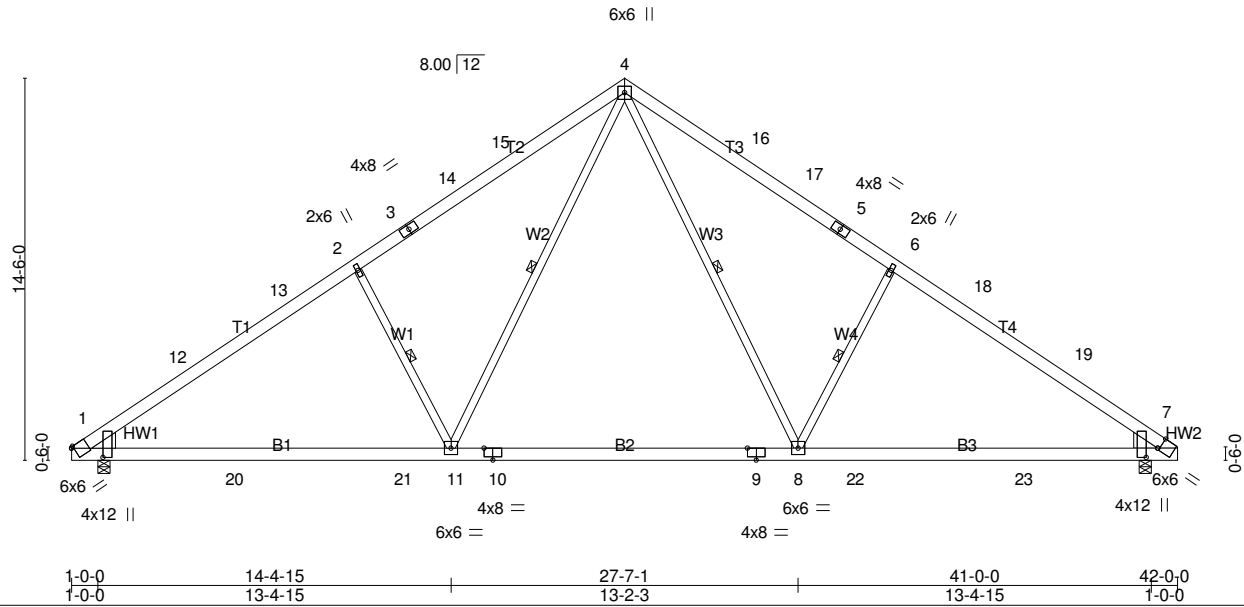


Plate Offsets (X,Y)-- [1:0-0-13,Edge], [1:0-4-4,1-2-7], [7:0-4-4,0-5-4], [7:0-0-13,Edge], [9:0-4-0,Edge], [10:0-4-0,Edge]

LOADING (psf)	SPACING	CSI	DEFL.	PLATES	GRIP
TCLL 46.2 (Ground Snow=60.0) TCDL 10.0 BCLL 0.0 * BCDL 10.0	2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IBC2009/TPI2007	TC 0.97 BC 0.60 WB 0.49 Matrix-P	in (loc) l/defl L/d Vert(LL) -0.35 7-8 >999 240 Vert(TL) -0.79 7-8 >629 180 Horz(TL) 0.13 7 n/a n/a	MT20 Weight: 265 lb	169/123 FT = 0%

LUMBER-
TOP CHORD 2x6 SP M 23
BOT CHORD 2x6 SP M 23 *Except*
B2: 2x6 SPF 1650F 1.5E
WEBS 2x4 SPF 1650F 1.5E *Except*
W4,W1: 2x4 SPF-S No.2
WEDGE
Left: 2x8 SP M 23, Right: 2x8 SP M 23

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied or 9-11-3 oc bracing.
WEBS 1 Row at midpt 4-8, 6-8, 4-11, 2-11

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 1=3181/0-5-8 (min. 0-2-10), 7=3181/0-5-8 (min. 0-2-10)
Max Horz 1=838(LC 7)
Max Uplift 1=-810(LC 8), 7=-810(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-4691/1274, 12-13=-4489/1277, 2-13=-4161/1319, 2-3=-4238/1436, 3-14=-3989/1455,
14-15=-3862/1469, 4-15=-3842/1490, 4-16=-3842/1490, 16-17=-3862/1469, 5-17=-3989/1455,
5-6=-4238/1436, 6-18=-4161/1319, 18-19=-4489/1277, 7-19=-4691/1274
BOT CHORD 1-20=-851/3702, 20-21=-851/3702, 11-21=-851/3702, 10-11=-247/2398, 9-10=-247/2398,
8-9=-247/2398, 8-22=-851/3702, 22-23=-851/3702, 7-23=-851/3702
WEBS 4-8=-648/2023, 6-8=-1271/858, 4-11=-648/2023, 2-11=-1271/858

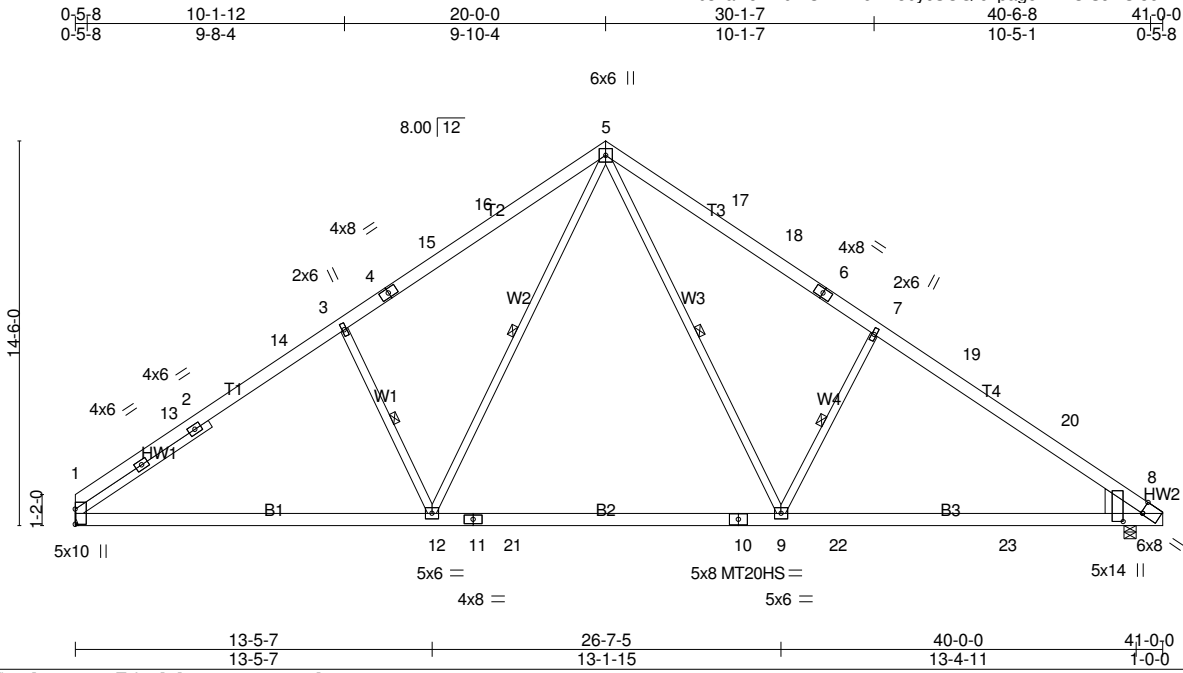
- NOTES-** (9-10)
- 1) Wind: ASCE 7-05; 120mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) 0-5-1 to 4-7-7, Interior(1) 4-7-7 to 16-9-10, Exterior(2) 16-9-10 to 21-0-0, Interior(1) 25-2-6 to 37-4-9 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-05; Pg= 60.0 psf (ground snow); Pf=46.2 psf (flat roof snow); Category II; Exp C; Partially Exp.; Ct=1.1
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) Plate(s) at joint(s) 10 and 9 checked for a plus or minus 4 degree rotation about its center.
 - 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 810 lb uplift at joint 1 and 810 lb uplift at joint 7.
 - 8) This truss is designed in accordance with the 2009 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 9) Dimensions are in feet-inches-sixteenths
 - 10) Drawing prepared exclusively for manufacturing by Boise Cascade.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
690396	006	Common	1	1	B_MOHC_E137787_9/18/2017 12:16:03 PM Job Reference (optional)

Boise Structural Solutions, Biddeford, ME 04005, Chipper Roberts

Run: 8.110 s Jun 13 2017 Print: 8.110 s Jun 13 2017 MiTek Industries, Inc. Tue Sep 19 15:35:26 2017 Page 1
ID:bsnaw5m?0I7CX11WeElz30ycSOQ-c4pagoAR4OISJHUI3e?Yqwk8XD47IkIcuf6f2tyc1q?



Scale = 1:86.9

Plate Offsets (X,Y)-- [8:0-0-10,Edge], [8:0-3-12,0-8-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 46.2 (Ground Snow=60.0)	2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	TC 0.98 BC 0.98 WB 0.45 Matrix-SH	in (loc) l/defl L/d Vert(LL) -0.48 8-9 >999 240 Vert(TL) -0.90 8-9 >539 180 Horz(TL) 0.13 8 n/a n/a	MT20 MT20HS	169/123 148/108
TCDL 10.0 BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code IBC2009/TPI2007			Weight: 251 lb	FT = 0%

LUMBER-
 TOP CHORD 2x6 SP M 23 *Except*
 T4: 2x6 SPF 1650F 1.5E
 BOT CHORD 2x6 SPF 1650F 1.5E *Except*
 B1: 2x6 SP M 23
 WEBS 2x4 SPF-S No.2 *Except*
 W2,W3: 2x4 SPF 1650F 1.5E
 WEDGE
 Right: 2x12 DF No.2
 SLIDER Left 2x4 SPF 1650F 1.5E 6-1-5

BRACING-
 TOP CHORD Structural wood sheathing directly applied.
 BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
 WEBS 1 Row at midpt 3-12, 5-12, 5-9, 7-9
 MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 1=2937/Mechanical, 8=3079/0-5-8 (min. 0-4-13)
 Max Horz 1=-838(LC 6)
 Max Uplift1=-802(LC 8), 8=-797(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-13=-4221/1199, 2-13=-4000/1203, 2-14=-3744/1213, 3-14=-3694/1248, 3-4=-3762/1363,
 4-15=-3530/1381, 15-16=-3436/1393, 5-16=-3397/1422, 5-17=-3664/1452, 17-18=-3690/1423,
 6-18=-3791/1411, 6-7=-4046/1391, 7-19=-3978/1287, 19-20=-4302/1247, 8-20=-4508/1244
 BOT CHORD 1-12=-728/3222, 11-12=-253/2279, 11-21=-253/2279, 10-21=-253/2279, 9-10=-253/2279,
 9-22=-793/3535, 22-23=-793/3535, 8-23=-793/3535
 WEBS 3-12=-1034/706, 5-12=-555/1537, 5-9=-590/1992, 7-9=-1182/747

- NOTES-** (10-11)
- 1) Wind: ASCE 7-05; 120mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) 0-0-0 to 4-1-3, Interior(1) 4-1-3 to 15-10-13, Exterior(2) 15-10-13 to 20-0-0, Interior(1) 24-1-3 to 36-5-12 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-05; Pg= 60.0 psf (ground snow); Pf=46.2 psf (flat roof snow); Category II; Exp C; Partially Exp.; Ct=1.1
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) All plates are MT20 plates unless otherwise indicated.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 7) Refer to girder(s) for truss to truss connections.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 802 lb uplift at joint 1 and 797 lb uplift at joint 8.
 - 9) This truss is designed in accordance with the 2009 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 10) Dimensions are in feet-inches-sixteenths
 - 11) Drawing prepared exclusively for manufacturing by Boise Cascade.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
690396	007	Common	2	1	B_MCO_E137787_9/18/2017 12:18:34 PM Job Reference (optional)

Boise Structural Solutions, Biddeford, ME 04005, Chipper Roberts

Run: 8.110 s Jun 13 2017 Print: 8.110 s Jun 13 2017 MiTek Industries, Inc. Tue Sep 19 15:35:27 2017 Page 1
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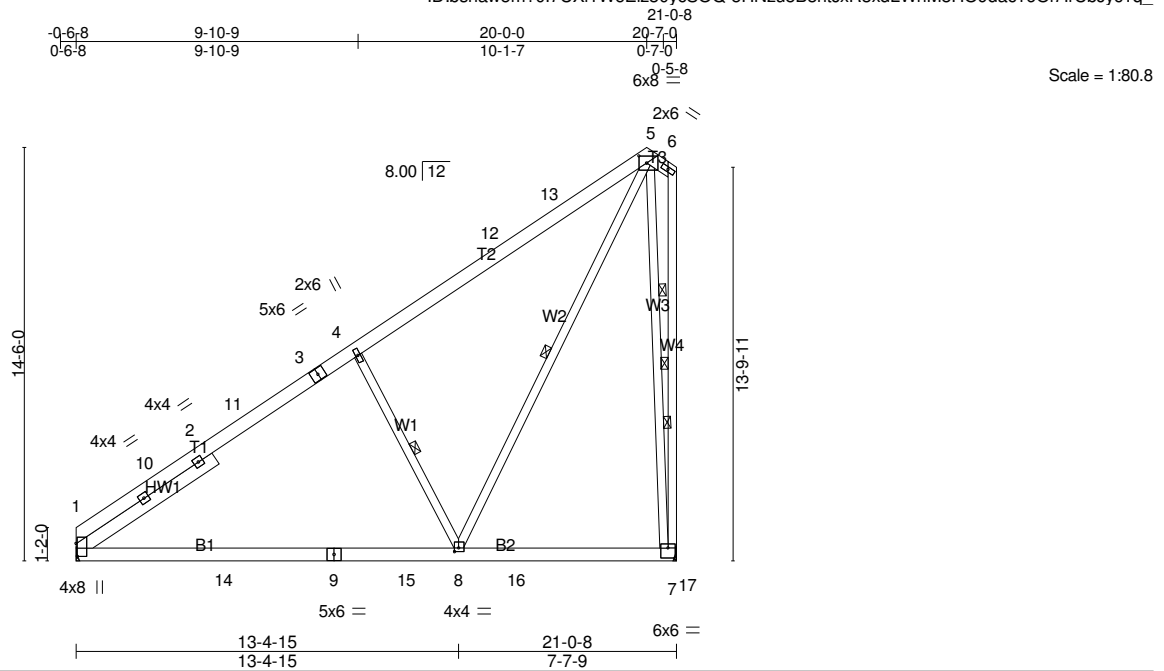


Plate Offsets (X,Y)-- [1:0-5-6,0-0-8], [5:0-3-4,0-3-0], [7:0-3-0,0-4-4], [8:0-1-12,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 46.2	Plate Grip DOL 1.15	TC 0.67	Vert(LL) -0.13	1-8	>999	240	MT20	169/123
(Ground Snow=60.0)	Lumber DOL 1.15	BC 0.32	Vert(TL) -0.36	1-8	>703	180		
TCDL 10.0	Rep Stress Incr YES	WB 0.78	Horz(TL) 0.02	7	n/a	n/a		
BCLL 0.0 *	Code IBC2009/TPI2007	Matrix-SH						
BCDL 10.0							Weight: 160 lb	FT = 0%

LUMBER-	BRACING-
TOP CHORD 2x6 SPF 1650F 1.5E *Except* T1: 2x6 SP M 23	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x6 SPF 1650F 1.5E *Except* B1: 2x6 SP M 23	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF 1650F 1.5E *Except* W1: 2x4 SPF-S No.2	WEBS 1 Row at midpt 5-8, 4-8, 6-7 2 Rows at 1/3 pts 5-7
SLIDER Left 2x6 SPF 1650F 1.5E 5-9-12	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 1=1413/Mechanical, 7=1555/Mechanical
Max Horz 1=854(LC 8)
Max Uplift1=201(LC 8), 7=-725(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-10=-1669/34, 2-10=-1524/42, 2-11=-1416/50, 3-11=-1176/60, 3-4=-1159/85,
4-12=-1211/200, 12-13=-856/204, 5-13=-761/233, 5-6=-188/259, 6-7=-343/416
BOT CHORD 1-14=-674/1185, 9-14=-674/1185, 9-15=-674/1185, 8-15=-674/1185
WEBS 5-8=-619/1411, 4-8=-1034/763, 5-7=-1795/1097

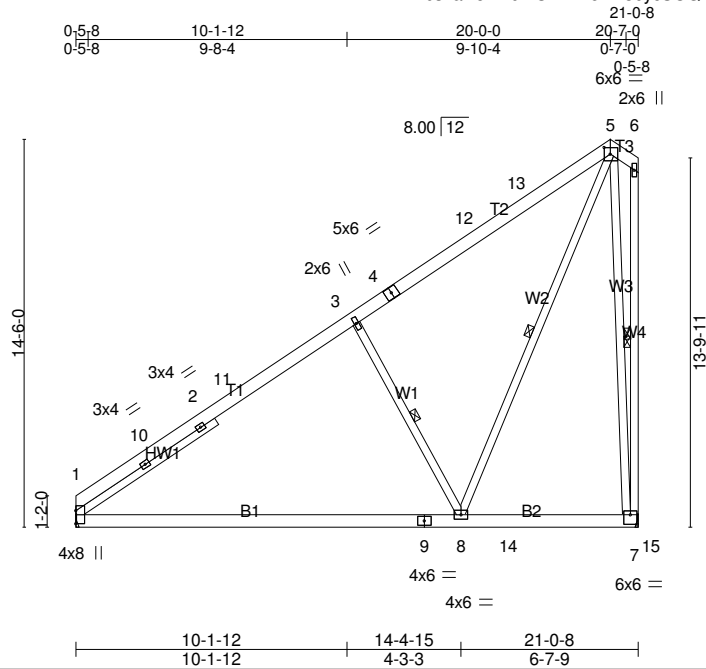
- NOTES-** (10-11)
- 1) Wind: ASCE 7-05; 120mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) 1-0-0 to 4-0-0, Interior(1) 4-0-0 to 18-1-11, Exterior(2) 18-1-11 to 21-1-11 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-05; Pg= 60.0 psf (ground snow); Pf=46.2 psf (flat roof snow); Category II; Exp C; Partially Exp.; Ct=1.1
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) Plate(s) at joint(s) 9 checked for a plus or minus 3 degree rotation about its center.
 - 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) Refer to girder(s) for truss to truss connections.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 201 lb uplift at joint 1 and 725 lb uplift at joint 7.
 - 9) This truss is designed in accordance with the 2009 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 10) Dimensions are in feet-inches-sixteenths
 - 11) Drawing prepared exclusively for manufacturing by Boise Cascade.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
690396	008	Common	4	1	B_MCO_E137787_9/18/2017 12:18:39 PM Job Reference (optional)

Boise Structural Solutions, Biddeford, ME 04005, Chipper Roberts

Run: 8.110 s Jun 13 2017 Print: 8.110 s Jun 13 2017 MiTek Industries, Inc. Tue Sep 19 15:35:27 2017 Page 1
ID:bsnaw5m?017CX11WeElz30ycSOQ-5HNzu8B3ritJxR3xdLWnM8HRPdZG13Y17rCbJyc1q_



Scale = 1:86.2

Plate Offsets (X,Y)-- [5:0-2-12,0-3-0], [7:0-3-0,0-4-4]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 46.2 (Ground Snow=60.0)	2-0-0 Plate Grip DOL 1.15	TC 0.46	Vert(LL) -0.19	1-8	>999	240	MT20	169/123
TCDL 10.0	Lumber DOL 1.15	BC 0.41	Vert(TL) -0.51	1-8	>489	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.97	Horz(TL) 0.02	7	n/a	n/a		
BCDL 10.0	Code IBC2009/TPI2007	Matrix-SH						
							Weight: 161 lb	FT = 0%

LUMBER-
TOP CHORD 2x6 SPF 1650F 1.5E *Except*
T1: 2x6 SP M 23
BOT CHORD 2x6 SPF 1650F 1.5E *Except*
B1: 2x6 SP M 23
WEBS 2x4 SPF 1650F 1.5E *Except*
W1: 2x4 SPF-S No.2
SLIDER Left 2x4 SPF 1650F 1.5E 6-3-14

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 5-8, 6-7, 5-7, 3-8

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 1=1406/Mechanical, 7=1533/Mechanical
Max Horz 1=854(LC 8)
Max Uplift1=-201(LC 8), 7=-724(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-10=-1603/16, 2-10=-1426/27, 2-11=-1326/36, 3-11=-1061/71, 3-4=-1099/150,
4-12=-809/166, 12-13=-750/182, 5-13=-687/207, 6-7=-224/255
BOT CHORD 1-9=-643/1115, 8-9=-643/1115
WEBS 5-8=-602/1387, 5-7=-1652/970, 3-8=-1049/766

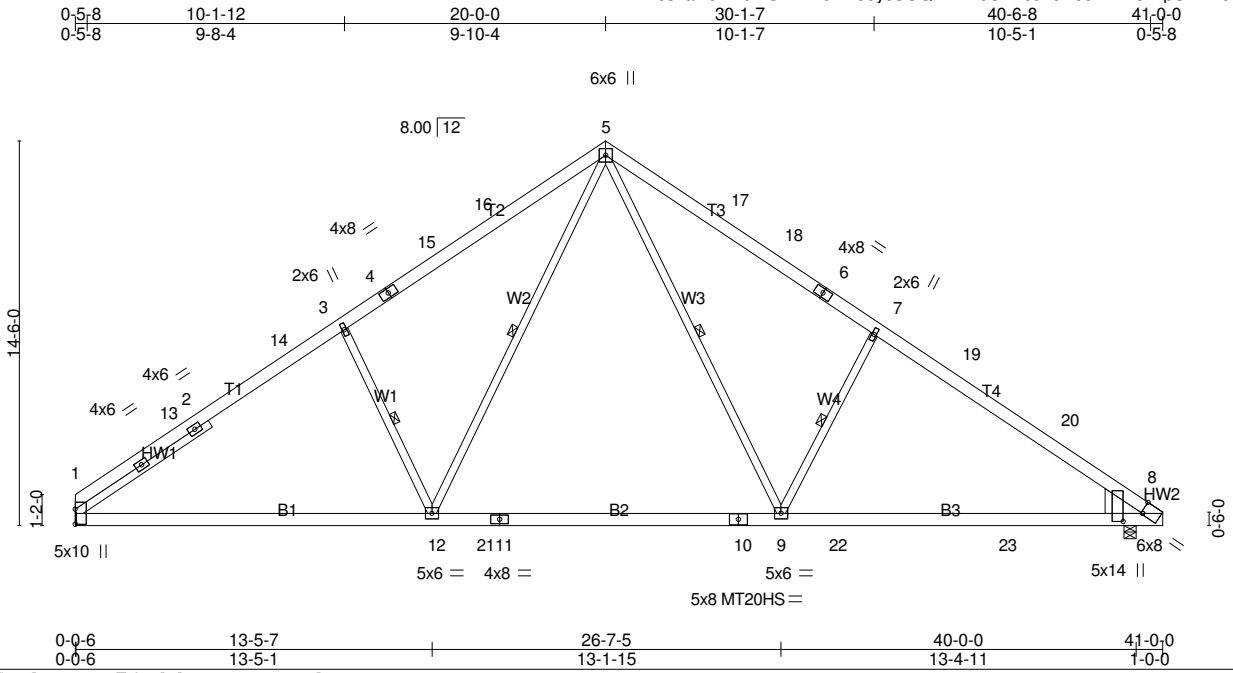
- NOTES-** (9-10)
- 1) Wind: ASCE 7-05; 120mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 17-0-0, Exterior(2) 17-0-0 to 20-0-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-05; Pg= 60.0 psf (ground snow); Pf=46.2 psf (flat roof snow); Category II; Exp C; Partially Exp.; Ct=1.1
 - 3) Unbalanced snow loads have been considered for this design.
 - 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) Refer to girder(s) for truss to truss connections.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 201 lb uplift at joint 1 and 724 lb uplift at joint 7.
 - 8) This truss is designed in accordance with the 2009 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 9) Dimensions are in feet-inches-sixteenths
 - 10) Drawing prepared exclusively for manufacturing by Boise Cascade.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
690396	009	Common	1	1	B_MOHC_E137787_9/18/2017 12:18:08 PM Job Reference (optional)

Boise Structural Solutions, Biddeford, ME 04005, Chipper Roberts

Run: 8.110 s Jun 13 2017 Print: 8.110 s Jun 13 2017 MiTek Industries, Inc. Tue Sep 19 15:35:28 2017 Page 1
ID:bsnaw5m?017CX11WeElz30ycSOQ-ZTxL5UBhc0?9Ybe7A210vLpU11mbmeovLybm6myc1pz



Scale = 1:86.9

Plate Offsets (X,Y)-- [8:0-0-10,Edge], [8:0-3-12,0-8-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 46.2 (Ground Snow=60.0) TCDL 10.0 BCLL 0.0 * BCDL 10.0	2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IBC2009/TPI2007	TC 0.98 BC 0.98 WB 0.45 Matrix-SH	in (loc) l/defl L/d Vert(LL) -0.48 8-9 >999 240 Vert(TL) -0.90 8-9 >539 180 Horz(TL) 0.13 8 n/a n/a	MT20 MT20HS Weight: 252 lb	169/123 148/108 FT = 0%

LUMBER-
TOP CHORD 2x6 SP M 23 *Except*
 T4: 2x6 SPF 1650F 1.5E
BOT CHORD 2x6 SPF 1650F 1.5E *Except*
 B1: 2x6 SP M 23
WEBS 2x4 SPF-S No.2 *Except*
 W2,W3: 2x4 SPF 1650F 1.5E
WEDGE
 Right: 2x12 DF No.2
SLIDER Left 2x4 SPF 1650F 1.5E 6-1-5

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 3-12, 5-12, 5-9, 7-9
 MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 1=2937/Mechanical, 8=3079/0-5-8 (min. 0-4-13)
 Max Horz 1=-838(LC 6)
 Max Uplift1=-802(LC 8), 8=-797(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-13=-4221/1199, 2-13=-4000/1203, 2-14=-3744/1213, 3-14=-3694/1247, 3-4=-3762/1362,
 4-15=-3530/1381, 15-16=-3436/1393, 5-16=-3397/1422, 5-17=-3664/1452, 17-18=-3690/1423,
 6-18=-3791/1411, 6-7=-4046/1391, 7-19=-3978/1287, 19-20=-4302/1247, 8-20=-4508/1244
BOT CHORD 1-12=-727/3222, 12-21=-253/2279, 11-21=-253/2279, 10-11=-253/2279, 9-10=-253/2279,
 9-22=-793/3535, 22-23=-793/3535, 8-23=-793/3535
WEBS 3-12=-1034/706, 5-12=-555/1537, 5-9=-590/1992, 7-9=-1182/747

- NOTES-** (10-11)
- 1) Wind: ASCE 7-05; 120mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) 0-0-0 to 4-1-3, Interior(1) 4-1-3 to 15-10-13, Exterior(2) 15-10-13 to 20-0-0, Interior(1) 24-1-3 to 36-5-12 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-05; Pg= 60.0 psf (ground snow); Pf=46.2 psf (flat roof snow); Category II; Exp C; Partially Exp.; Ct=1.1
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) All plates are MT20 plates unless otherwise indicated.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 7) Refer to girder(s) for truss to truss connections.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 802 lb uplift at joint 1 and 797 lb uplift at joint 8.
 - 9) This truss is designed in accordance with the 2009 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 10) Dimensions are in feet-inches-sixteenths
 - 11) Drawing prepared exclusively for manufacturing by Boise Cascade.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
690396	010	Common	6	1	B_MCO_E137787_9/18/2017 12:18:13 PM Job Reference (optional)

Boise Structural Solutions, Biddeford, ME 04005, Chipper Roberts

Run: 8.110 s Jun 13 2017 Print: 8.110 s Jun 13 2017 MiTek Industries, Inc. Tue Sep 19 15:35:29 2017 Page 1
ID:bsnaw5m?0I7CXI1WeElz30ycSOQ-1fVjlpCKNJ70AICJkmYFSZMikR7oV?32acKJeCyc1py

0-5-8 10-10-9 21-0-0 30-3-8 30-9-0
0-5-8 10-5-1 10-1-7 9-3-8 0-5-8

Scale = 1:80.6

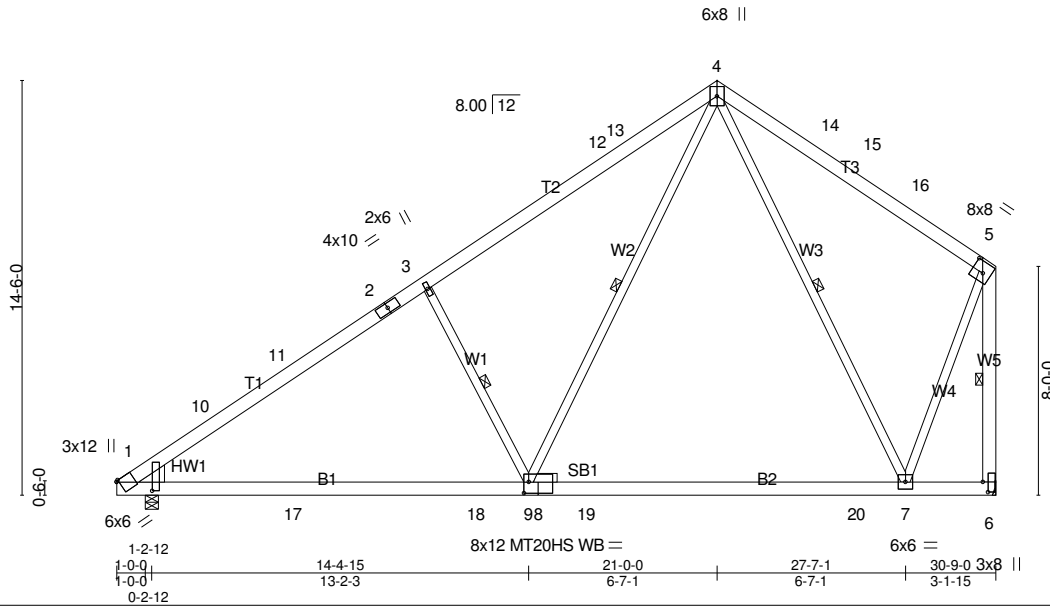


Plate Offsets (X,Y)-- [1:0-3-12,1-2-15], [1:0-0-13,Edge], [5:0-4-12,0-4-8], [6:0-4-4,0-2-4], [8:0-2-0,0-4-12], [8:0-0-0,0-2-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 46.2 (Ground Snow=60.0)	2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IBC2009/TPI2007	TC 0.82 BC 0.85 WB 0.84 Matrix-S	Vert(LL) -0.40 Vert(TL) -0.82 Horz(TL) 0.05	1-9 1-9 6	>895 >442 n/a	240 180 n/a	MT20 MT20HS	169/123 127/93
TCDL 10.0 BCLL 0.0 * BCDL 10.0							Weight: 194 lb	FT = 0%

LUMBER-
TOP CHORD 2x6 SPF 1650F 1.5E *Except*
T3: 2x6 SP M 23
BOT CHORD 2x6 SPF 1650F 1.5E
WEBS 2x4 SPF 1650F 1.5E *Except*
W1,W4: 2x4 SPF-S No.2, W5: 2x6 SPF 1650F 1.5E
OTHERS 2x4 SPF-S No.2
WEDGE
Left: 2x8 SP M 23

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-4-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-5-12 oc bracing.
WEBS 1 Row at midpt 4-7, 4-9, 3-9, 5-6

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 6=2326/Mechanical, 1=2293/0-5-8 (min. 0-3-10)
Max Horz 1=786(LC 7)
Max Uplift6=-624(LC 9), 1=-537(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-10=-3127/730, 10-11=-2931/738, 2-11=-2825/748, 2-3=-2605/786, 3-12=-2667/885,
12-13=-2260/921, 4-13=-2221/946, 4-14=-648/428, 14-15=-681/404, 15-16=-765/395,
5-16=-1057/386, 5-6=-2457/669
BOT CHORD 1-17=-870/2405, 17-18=-870/2405, 9-18=-870/2405, 8-9=-276/1128, 8-19=-276/1128,
19-20=-276/1128, 7-20=-276/1128
WEBS 4-7=-1152/384, 4-9=-579/1909, 3-9=-1119/769, 5-7=-216/1626

- NOTES-** (10-11)
- 1) Wind: ASCE 7-05; 120mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) 0-5-1 to 3-5-15, Interior(1) 3-5-15 to 17-11-2, Exterior(2) 17-11-2 to 21-0-0, Interior(1) 24-0-14 to 27-5-6 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-05; Pg= 60.0 psf (ground snow); Pf=46.2 psf (flat roof snow); Category II; Exp C; Partially Exp.; Ct=1.1
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) All plates are MT20 plates unless otherwise indicated.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 7) Refer to girder(s) for truss to truss connections.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 624 lb uplift at joint 6 and 537 lb uplift at joint 1.
 - 9) This truss is designed in accordance with the 2009 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 10) Dimensions are in feet-inches-sixteenths
 - 11) Drawing prepared exclusively for manufacturing by Boise Cascade.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
690396	011	GESI	1	1	B_MGE_E137787_9/18/2017 12:18:24 PM Job Reference (optional)

Boise Structural Solutions, Biddeford, ME 04005, Chipper Roberts

Run: 8.110 s Jun 13 2017 Print: 8.110 s Jun 13 2017 MiTek Industries, Inc. Tue Sep 19 15:35:29 2017 Page 1
ID:bsnaw5m?0I7CX11WeElz30ycSOQ-1fVjlpCKNJ70AICJkmYFSZMpORleV7?2acKJeCyc1py

0-5-8 19-10-0 40-4-8 40-10-0
0-5-8 19-4-8 20-6-8 0-5-8

Scale = 1:86.8

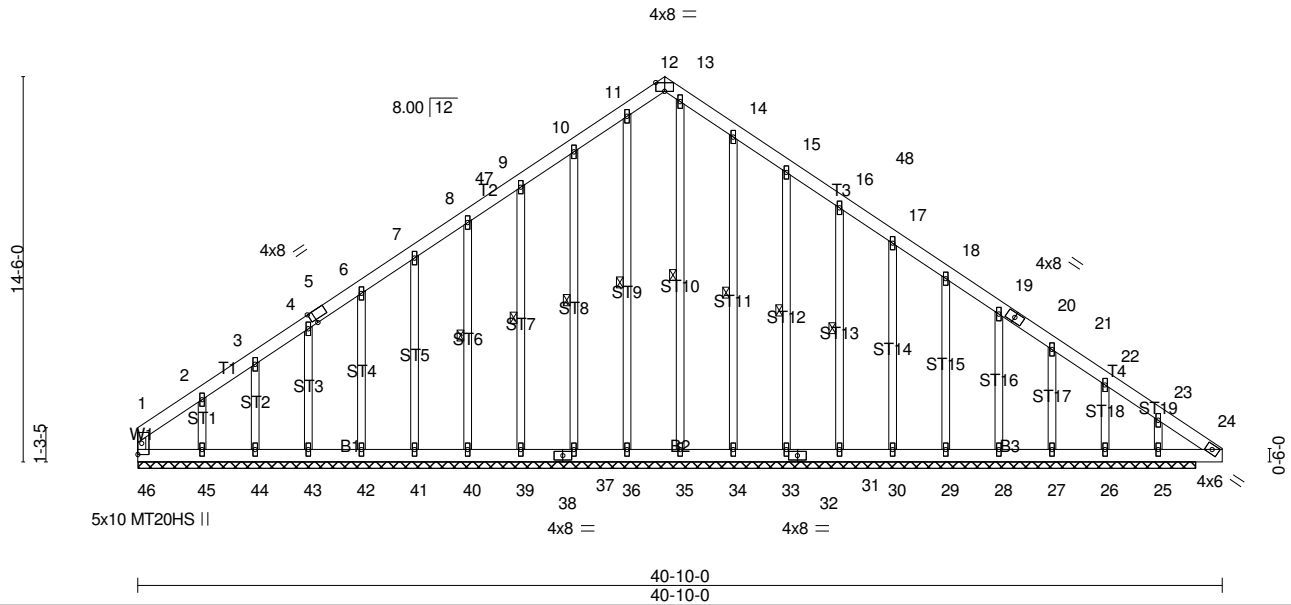


Plate Offsets (X,Y)-- [1:0-1-3,0-1-12], [5:0-2-1,Edge], [12:0-4-0,Edge], [46:0-0-0,0-1-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 46.2	2-0-0	TC 0.37	in (loc) l/defl L/d	MT20	169/123
(Ground Snow=60.0)	Plate Grip DOL 1.15	BC 0.16	Vert(LL) n/a - n/a 999	MT20HS	127/93
TCDL 10.0	Lumber DOL 1.15	WB 0.33	Vert(TL) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-SH	Horz(TL) 0.02 25 n/a n/a		
BCDL 10.0	Code IBC2009/TPI2007			Weight: 301 lb	FT = 0%

LUMBER-
 TOP CHORD 2x6 SPF 1650F 1.5E
 BOT CHORD 2x6 SPF 1650F 1.5E
 WEBS 2x4 SPF-S No.2
 OTHERS 2x4 SPF-S No.2 *Except*
 ST10,ST9: 2x4 SPF 1650F 1.5E

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.
 WEBS 1 Row at midpt 13-35, 11-36, 10-37, 9-39, 8-40, 14-34, 15-33, 16-31

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 39-10-0.
 (lb) - Max Horz 46=-832(LC 6)
 Max Uplift All uplift 100 lb or less at joint(s) 36, 34 except 46=-454(LC 6),
 37=-141(LC 9), 39=-127(LC 9), 40=-110(LC 9), 41=-111(LC 9), 42=-144(LC 8),
 43=-192(LC 8), 44=-137(LC 8), 45=-454(LC 7), 33=-138(LC 9), 31=-113(LC 9),
 30=-111(LC 8), 29=-111(LC 8), 28=-153(LC 9), 27=-147(LC 9), 26=-497(LC 6),
 25=-253(LC 7)
 Max Grav All reactions 250 lb or less at joint(s) except 46=565(LC 7), 35=470(LC 9),
 36=401(LC 2), 37=399(LC 2), 39=381(LC 2), 40=285(LC 2), 41=265(LC 1),
 42=264(LC 1), 43=268(LC 1), 44=251(LC 2), 45=347(LC 1), 34=396(LC 3),
 33=395(LC 3), 31=308(LC 3), 30=264(LC 1), 29=267(LC 1), 28=256(LC 3),
 27=309(LC 1), 26=310(LC 7), 25=590(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-46=-416/357, 1-2=-677/565, 2-3=-495/484, 3-4=-429/488, 4-5=-342/465, 5-6=-336/477,
 6-7=-257/466, 7-8=-172/455, 8-47=-87/547, 9-47=-75/559, 9-10=-90/688, 10-11=-88/828,
 11-12=-87/735, 12-13=-55/565, 13-14=-45/855, 14-15=-46/747, 15-48=0/610,
 16-48=-28/598, 16-17=-15/489, 17-18=-15/370, 18-19=-97/262, 19-20=-170/273,
 20-21=-182/266, 21-22=-255/276, 22-23=-425/340, 23-24=-395/277
 BOT CHORD 45-46=-255/408, 44-45=-255/408, 43-44=-255/408, 42-43=-255/408, 41-42=-255/408,
 40-41=-255/408, 39-40=-255/408, 38-39=-255/408, 37-38=-255/408, 36-37=-255/408,
 35-36=-255/408, 34-35=-255/408, 33-34=-255/408, 32-33=-255/408, 31-32=-255/408,
 30-31=-255/408, 29-30=-255/408, 28-29=-255/408, 27-28=-255/408, 26-27=-255/408,
 25-26=-255/408, 24-25=-255/408
 WEBS 13-35=-532/0, 11-36=-361/42, 10-37=-359/229, 9-39=-341/212, 2-45=-280/312,
 14-34=-356/171, 15-33=-355/226, 16-31=-268/194, 22-26=-145/282, 23-25=-367/133

NOTES- (13-14)
 1) Wind: ASCE 7-05; 120mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Corner(3) 0-1-12 to 4-5-0, Exterior(2) 4-5-0 to 15-9-0, Corner(3) 15-9-0 to 19-10-0, Exterior(2) 23-11-0 to 36-8-15 zone; cantilever 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) TCLL: ASCE 7-05; Pg= 60.0 psf (ground snow); Pf=46.2 psf (flat roof snow); Category II; Exp C; Partially Exp.; Ct=1.1

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	
690396	011	GESI	1	1	B_MGE_E137787_9/18/2017 12:18:24 PM Job Reference (optional)

Boise Structural Solutions, Biddeford, ME 04005, Chipper Roberts

Run: 8.110 s Jun 13 2017 Print: 8.110 s Jun 13 2017 MiTek Industries, Inc. Tue Sep 19 15:35:29 2017 Page 2
ID:bsnaw5m?0I7CXI1WeElz30ycSOQ-1fVjlpCKNJ70AICJkmYFSZMpORleV7?2acKJeCyc1py

NOTES- (13-14)

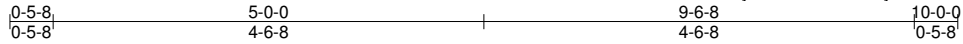
- 4) Unbalanced snow loads have been considered for this design.
- 5) All plates are MT20 plates unless otherwise indicated.
- 6) All plates are 2x6 MT20 unless otherwise indicated.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent 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) 36, 34 except (jt=lb) 46=454, 37=141, 39=127, 40=110, 41=111, 42=144, 43=192, 44=137, 45=454, 33=138, 31=113, 30=111, 29=111, 28=153, 27=147, 26=497, 25=253.
- 11) Non Standard bearing condition. Review required.
- 12) This truss is designed in accordance with the 2009 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 13) Dimensions are in feet-inches-sixteenths
- 14) Drawing prepared exclusively for manufacturing by Boise Cascade.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
690396	012	GESI	1	1	D_MGE_E137787_9/18/2017 12:18:53 PM Job Reference (optional)

Boise Structural Solutions, Biddeford, ME 04005, Chipper Roberts

Run: 8.110 s Jun 13 2017 Print: 8.110 s Jun 13 2017 MiTek Industries, Inc. Tue Sep 19 15:35:30 2017 Page 1
ID:bsnaw5m?0l7CXl1WeElz30ycSOQ-Vs25W9Dy8dFtovnWIT3U_mv0_regEdUCpG4sBeIyc1px



4x4 =

Scale = 1:24.3

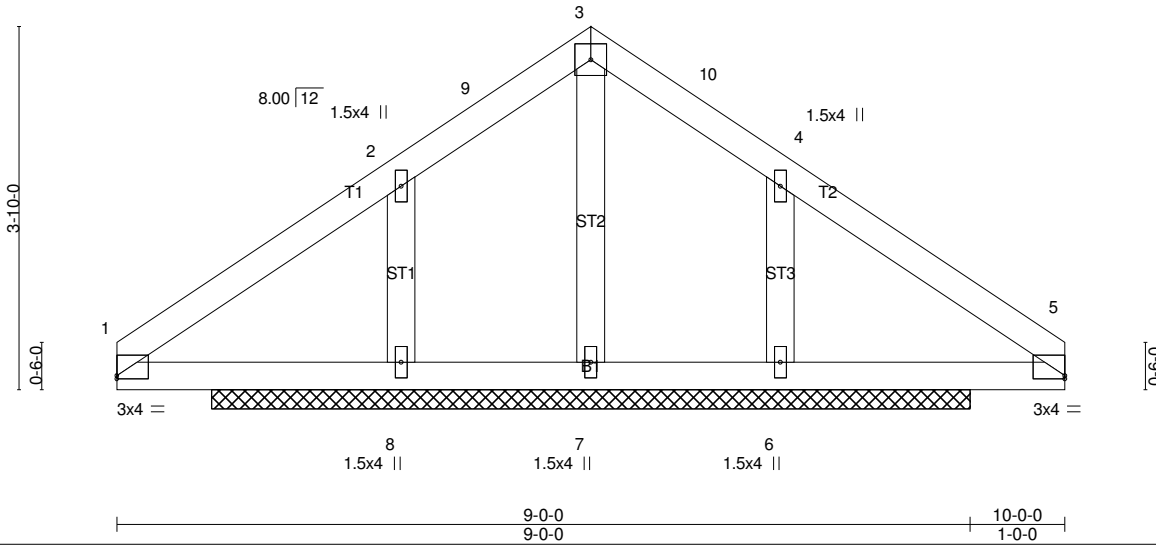


Plate Offsets (X,Y)-- [1:0-0-0,0-0-6], [5:0-0-0,0-0-6]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 46.2	2-0-0	TC 0.25	Vert(LL)	n/a	-	n/a	MT20	169/123
(Ground Snow=60.0)	Plate Grip DOL 1.15	BC 0.17	Vert(TL)	n/a	-	n/a		
TCDL 10.0	Lumber DOL 1.15	WB 0.12	Horz(TL)	-0.00	6	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-SH						
BCDL 10.0	Code IBC2009/TPI2007						Weight: 32 lb	FT = 0%

LUMBER-

TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
OTHERS 2x4 SPF-S No.2

BRACING-

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 7=406/8-0-0 (min. 0-2-1), 8=459/8-0-0 (min. 0-2-1), 6=459/8-0-0 (min. 0-2-1)
Max Horz 8=210(LC 7)
Max Uplift 8=300(LC 8), 6=300(LC 9)
Max Grav 7=406(LC 1), 8=571(LC 2), 6=571(LC 3)

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

TOP CHORD 1-2=-111/370, 3-9=0/280, 3-10=0/280, 4-5=-111/370
WEBS 3-7=-419/0, 2-8=-417/310, 4-6=-417/310

NOTES- (11-12)

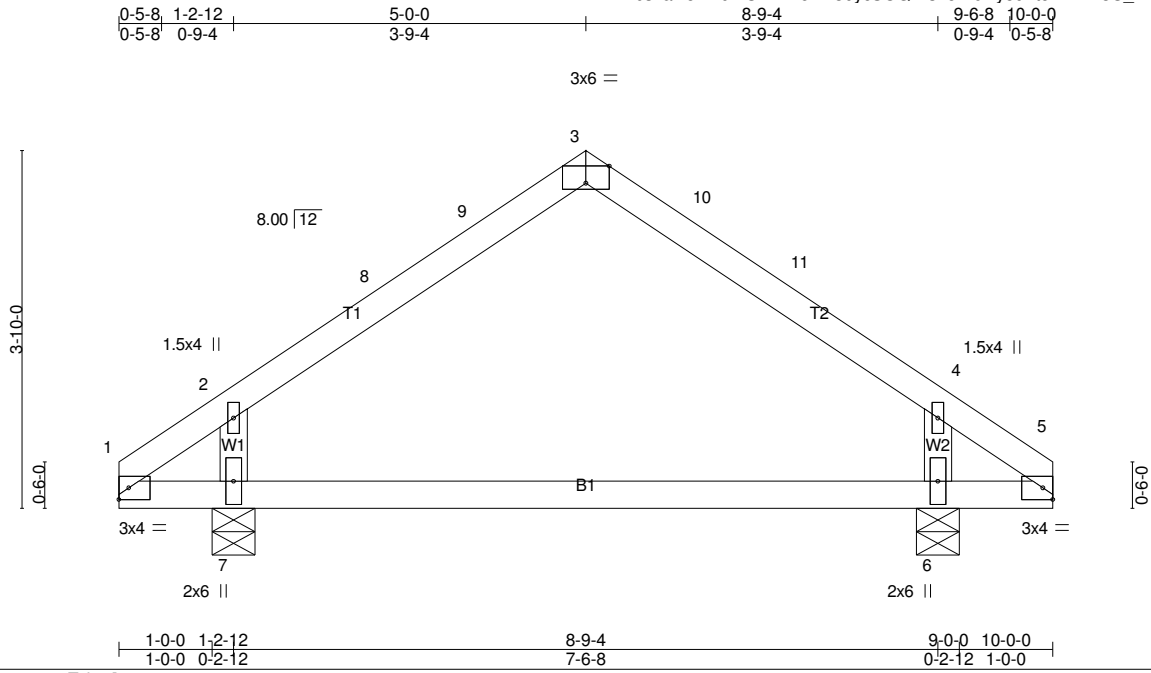
- 1) Wind: ASCE 7-05; 120mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Corner(3) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind 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) TCLL: ASCE 7-05; Pg= 60.0 psf (ground snow); Pf=46.2 psf (flat roof snow); Category II; Exp C; Partially Exp.; Ct=1.1
- 4) Unbalanced snow loads have been considered for this design.
- 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) except (jt=lb) 8=300, 6=300.
- 9) Non Standard bearing condition. Review required.
- 10) This truss is designed in accordance with the 2009 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 11) Dimensions are in feet-inches-sixteenths
- 12) Drawing prepared exclusively for manufacturing by Boise Cascade.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
690396	013	Common	1	1	D_PMT_E137787_9/18/2017 12:18:44 PM Job Reference (optional)

Boise Structural Solutions, Biddeford, ME 04005, Chipper Roberts

Run: 8.110 s Jun 13 2017 Print: 8.110 s Jun 13 2017 MiTek Industries, Inc. Tue Sep 19 15:35:30 2017 Page 1
ID:bsnaw5m?017CX11WeElz30ycSOQ-Vs25W9Dy8dFtovnWIT3U_mvygrbpEdiCpG4sBeyc1px



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 46.2 (Ground Snow=60.0)	2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IBC2009/TPI2007	TC 0.46 BC 0.35 WB 0.11 Matrix-SH	in (loc) l/defl L/d Vert(LL) -0.09 6-7 >999 240 Vert(TL) -0.20 6-7 >455 180 Horz(TL) 0.00 6 n/a n/a	MT20	169/123
TCDL 10.0 BCLL 0.0 * BCDL 10.0				Weight: 23 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 SPF-S No.2
BOT CHORD 2x4 SPF-S No.2
WEBS 2x4 SPF-S No.2

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 7=662/0-5-8 (min. 0-1-8), 6=662/0-5-8 (min. 0-1-8)
Max Horz 7=-210(LC 6)
Max Uplift 7=-312(LC 8), 6=-312(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-8=-434/186, 8-9=-288/198, 3-9=-261/209, 3-10=-261/209, 10-11=-288/198,
4-11=-434/186
WEBS 2-7=-505/472, 4-6=-505/472

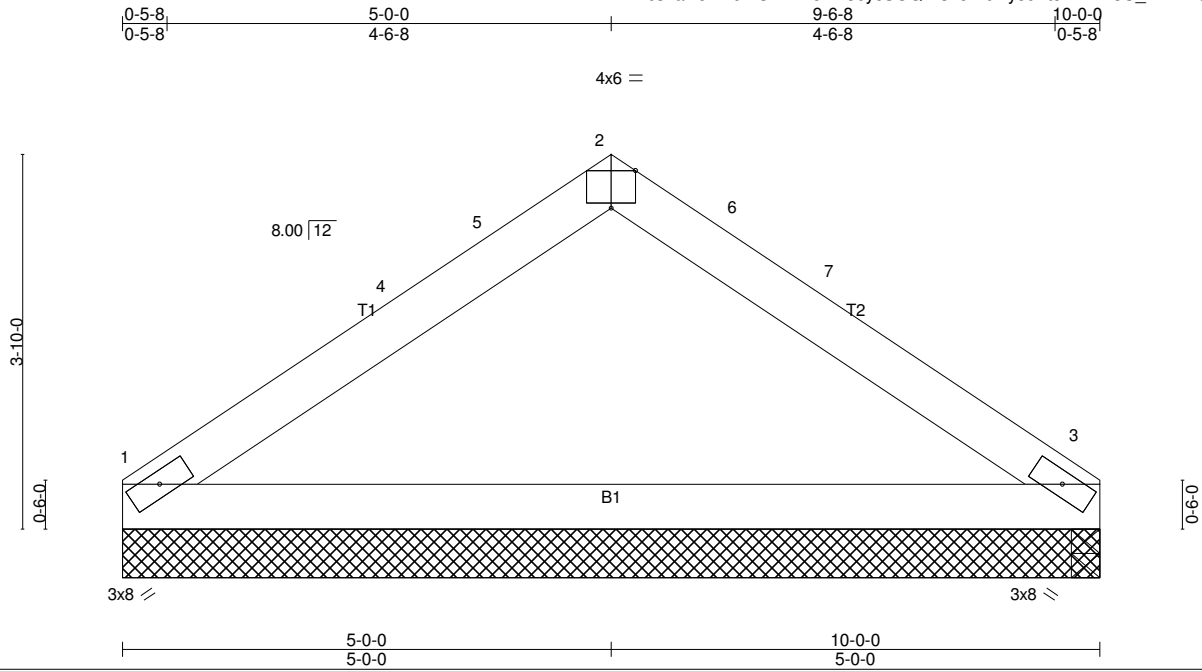
- NOTES-** (8-9)
- 1) Wind: ASCE 7-05; 120mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-05; Pg= 60.0 psf (ground snow); Pf=46.2 psf (flat roof snow); Category II; Exp C; Partially Exp.; Ct=1.1
 - 3) Unbalanced snow loads have been considered for this design.
 - 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) except (jt=lb) 7=312, 6=312.
 - 7) This truss is designed in accordance with the 2009 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 8) Dimensions are in feet-inches-sixteenths
 - 9) Drawing prepared exclusively for manufacturing by Boise Cascade.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
690396	014	Common	1	1	D_MOHC_E137787_9/18/2017 12:18:50 PM Job Reference (optional)

Boise Structural Solutions, Biddeford, ME 04005, Chipper Roberts

Run: 8.110 s Jun 13 2017 Print: 8.110 s Jun 13 2017 MiTek Industries, Inc. Tue Sep 19 15:35:30 2017 Page 1
ID:bsnaw5m?017CX11WeElz30ycSOQ-Vs25W9Dy8dFtovnWIT3U_mv1wreLEeNCpG4sBeyc1px



Scale = 1:23.6

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

LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 46.2	2-0-0	TC 0.19	Vert(LL) -0.05	1-3	>999	240		MT20	197/144
(Ground Snow=60.0)	Plate Grip DOL 1.15	BC 0.19	Vert(TL) -0.14	1-3	>810	180			
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Horz(TL) 0.00	3	n/a	n/a			
BCLL 0.0 *	Rep Stress Incr YES	Matrix-SH							
BCDL 10.0	Code IBC2009/TPI2007							Weight: 40 lb	FT = 0%

LUMBER-

TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x6 SPF 1650F 1.5E

BRACING-

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 1=643/10-0-0 (min. 0-2-0), 3=643/10-0-0 (min. 0-2-0), 3=643/10-0-0 (min. 0-2-0)
Max Horz 1=-199(LC 6)
Max Uplift 1=-242(LC 8), 3=-242(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-664/296, 4-5=-512/299, 2-5=-450/312, 2-6=-450/312, 6-7=-512/299, 3-7=-664/296
BOT CHORD 1-3=-126/468

NOTES- (8-9)

- 1) Wind: ASCE 7-05; 120mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-05; Pg= 60.0 psf (ground snow); Pf=46.2 psf (flat roof snow); Category II; Exp C; Partially Exp.; Ct=1.1
- 3) Unbalanced snow loads have been considered for this design.
- 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) except (jt=lb) 1=242, 3=242.
- 7) This truss is designed in accordance with the 2009 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 8) Dimensions are in feet-inches-sixteenths
- 9) Drawing prepared exclusively for manufacturing by Boise Cascade.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
690396	015	GESTR	1	1	E_MGE_E137787_9/18/2017 12:19:08 PM Job Reference (optional)

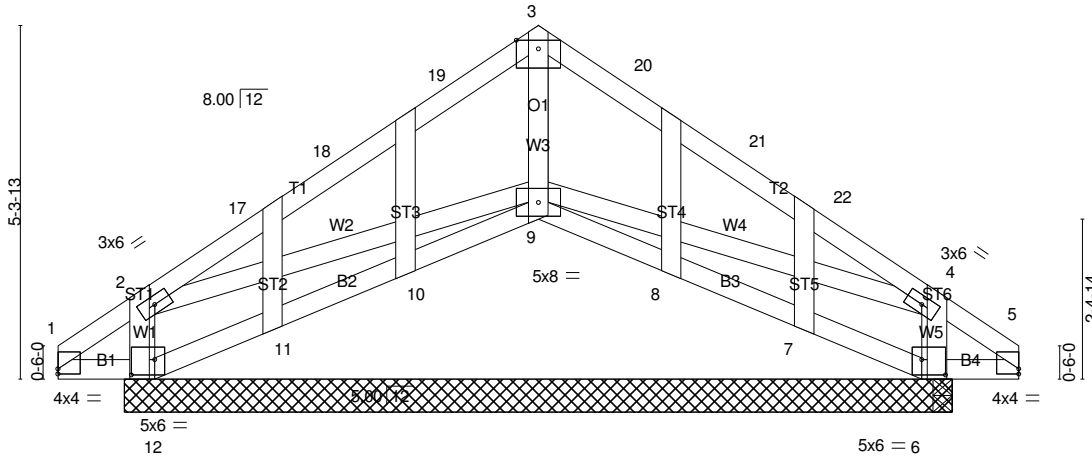
Boise Structural Solutions, Biddeford, ME 04005, Chipper Roberts

Run: 8.110 s Jun 13 2017 Print: 8.110 s Jun 13 2017 MiTek Industries, Inc. Tue Sep 19 15:35:31 2017 Page 1
ID:bsnaw5m?017CX11WeEiz30ycSOQ-z2cTjvEavxNkP3MisBajX_R7MEz1z3vL2wpQj4yc1pw

0-5-8 1-5-8 7-2-12 13-0-0 14-0-0 14-5-8
0-5-8 1-0-0 5-9-4 5-9-4 1-0-0 0-5-8

5x8 MT20HS =

Scale = 1:34.7



1-0-0 1-5-8 7-2-12 13-0-0 13-5-8 14-5-8
1-0-0 0-5-8 5-9-4 5-9-4 0-5-8 1-0-0

Plate Offsets (X,Y)-- [1:0-0,0-0-14], [5:Edge,0-0-14], [6:0-4-4,0-2-12], [12:0-4-4,0-2-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 46.2	2-0-0	TC 0.46	Vert(LL) -0.00	12	>999	240	MT20	169/123
(Ground Snow=60.0)	Plate Grip DOL 1.15	BC 0.23	Vert(TL) -0.00	8-9	>999	180	MT20HS	127/93
TCDL 10.0	Lumber DOL 1.15	WB 0.17	Horz(TL) -0.01	9	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-SH						
BCDL 10.0	Code IBC2009/TPI2007						Weight: 66 lb	FT = 0%

LUMBER-
 TOP CHORD 2x4 SPF 2100F 1.8E
 BOT CHORD 2x4 SPF-S No.2
 WEBS 2x4 SPF-S No.2
 OTHERS 2x4 SPF-S No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except:
 10-0-0 oc bracing: 1-12,5-6.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 12-5-8.
 (lb) - Max Horz 12=299(LC 7)
 Max Uplift All uplift 100 lb or less at joint(s) 9 except 12=391(LC 8), 6=434(LC 9)
 Max Grav All reactions 250 lb or less at joint(s) 10, 11, 8, 7 except 12=582(LC 2), 9=611(LC 1), 6=583(LC 3), 6=563(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-17=-317/174, 4-22=-319/175
 BOT CHORD 1-12=-149/257, 11-12=-429/408, 10-11=-421/402, 9-10=-424/403, 5-6=-154/257
 WEBS 3-9=-486/166, 4-9=-206/292, 4-6=-696/515, 2-9=-189/275, 2-12=-696/515

- NOTES-** (9-10)
- 1) Wind: ASCE 7-05; 120mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 4-2-12, Exterior(2) 4-2-12 to 7-2-12, Interior(1) 10-2-12 to 11-5-8 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-05; Pg= 60.0 psf (ground snow); Pf=46.2 psf (flat roof snow); Category II; Exp C; Partially Exp.; Ct=1.1
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) All plates are MT20 plates unless otherwise indicated.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9 except (jt=lb) 12=391, 6=434.
 - 8) This truss is designed in accordance with the 2009 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 9) Dimensions are in feet-inches-sixteenths
 - 10) Drawing prepared exclusively for manufacturing by Boise Cascade.

LOAD CASE(S) Standard

Job 690396	Truss 016	Truss Type SCISSOR	Qty 1	Ply 1	E_PMT_E137787_9/18/2017 12:19:01 PM Job Reference (optional)
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Boise Structural Solutions, Biddeford, ME 04005, Chipper Roberts

Run: 8.110 s Jun 13 2017 Print: 8.110 s Jun 13 2017 MiTek Industries, Inc. Tue Sep 19 15:35:31 2017 Page 1
ID:bsnaw5m?017CX11WeElz30ycSOQ-z2cTjVEavxNkP3MisBajX_R77Etrz2SL2wpQj4yc1pw

0-5-0 6-2-4 11-11-8 12-5-0
0-5-0 5-9-4 5-9-4 0-5-8

Scale = 1:32.6

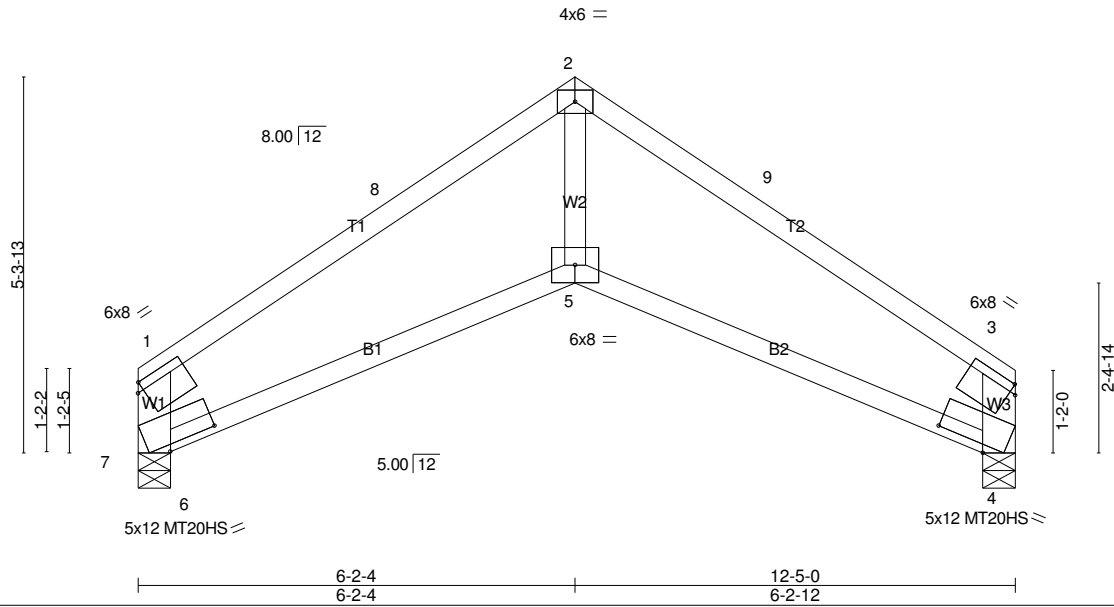


Plate Offsets (X,Y)-- [1:0-1-1,0-1-8], [3:0-1-1,0-1-8], [4:0-8-11,0-1-6], [6:0-8-10,0-1-3]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 46.2	2-0-0	TC 0.48	Vert(LL) -0.35	5	>413	240	MT20	169/123
(Ground Snow=60.0)	Plate Grip DOL 1.15	BC 0.62	Vert(TL) -0.57	5	>250	180	MT20HS	148/108
TCDL 10.0	Lumber DOL 1.15	WB 0.20	Horz(TL) 0.48	4	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-R						
BCDL 10.0	Code IBC2009/TPI2007						Weight: 45 lb	FT = 0%

LUMBER-

TOP CHORD 2x4 SP 2700F 2.2E
 BOT CHORD 2x4 SPF 2100F 1.8E
 WEBS 2x6 SP M 23 *Except*
 W2: 2x4 SPF-S No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 7=792/0-5-8 (min. 0-1-8), 4=792/0-5-8 (min. 0-1-8)
 Max Horz 7=-239(LC 6)
 Max Uplift 7=-269(LC 8), 4=-270(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-8=-1252/423, 2-8=-1014/443, 2-9=-1017/442, 3-9=-1256/422, 6-7=-792/327,
 1-6=-991/436, 3-4=-995/437
 BOT CHORD 5-6=-263/902, 4-5=-255/906
 WEBS 2-5=-104/643

- NOTES-** (10-11)
- 1) Wind: ASCE 7-05; 120mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-05; Pg= 60.0 psf (ground snow); Pf=46.2 psf (flat roof snow); Category II; Exp C; Partially Exp.; Ct=1.1
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) All plates are MT20 plates unless otherwise indicated.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) Bearing at joint(s) 7, 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=269, 4=270.
 - 9) This truss is designed in accordance with the 2009 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 10) Dimensions are in feet-inches-sixteenths
 - 11) Drawing prepared exclusively for manufacturing by Boise Cascade.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
690396	017	SCISSOR	1	1	E_MOHC_E137787_9/18/2017 12:19:05 PM Job Reference (optional)

Boise Structural Solutions, Biddeford, ME 04005, Chipper Roberts

Run: 8.110 s Jun 13 2017 Print: 8.110 s Jun 13 2017 MiTek Industries, Inc. Tue Sep 19 15:35:32 2017 Page 1
ID:bsnaw5m?017CX11WeElz30ycSOQ-REAsxrFCgEVb1CxuPu6y3B_lseD4iY5VGaZzFXyc1pv

0-5-0 6-2-4 11-11-8 12-5-0
0-5-0 5-9-4 5-9-4 0-5-8

Scale = 1:32.6

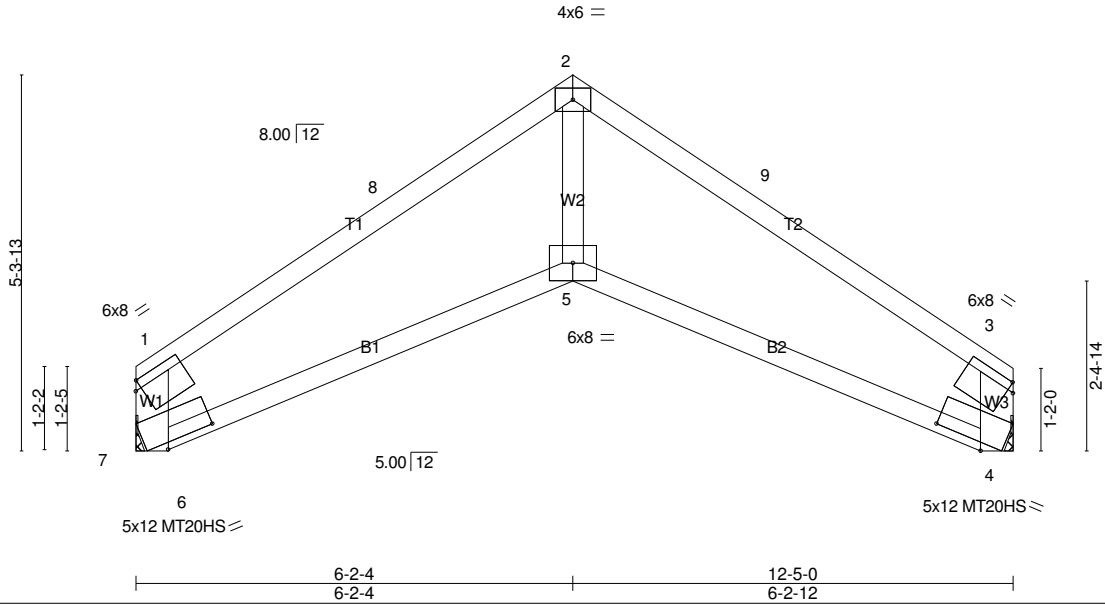


Plate Offsets (X,Y)-- [1:0-1-1,0-1-8], [3:0-1-1,0-1-8], [4:0-8-11,0-1-6], [6:0-8-10,0-1-3]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 46.2	2-0-0	TC 0.48	Vert(LL) -0.35	5	>415	240	MT20	197/144
(Ground Snow=60.0)	Plate Grip DOL 1.15	BC 0.62	Vert(TL) -0.57	5	>252	180	MT20HS	148/108
TCDL 10.0	Lumber DOL 1.15	WB 0.05	Horz(TL) 0.47	4	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-R						
BCDL 10.0	Code IBC2009/TPI2007						Weight: 46 lb	FT = 0%

LUMBER-

TOP CHORD 2x4 SP 2700F 2.2E
BOT CHORD 2x4 SPF 2100F 1.8E
WEBS 2x6 SP M 23 *Except*
W2: 2x4 SP 2700F 2.2E

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 7=792/Mechanical, 4=792/Mechanical
Max Horz 7=-239(LC 6)
Max Uplift 7=-269(LC 8), 4=-270(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-1252/423, 2-8=-1014/443, 2-9=-1018/442, 3-9=-1257/422, 6-7=-792/327,
1-6=-992/436, 3-4=-995/437
BOT CHORD 5-6=-263/902, 4-5=-255/906
WEBS 2-5=-104/643

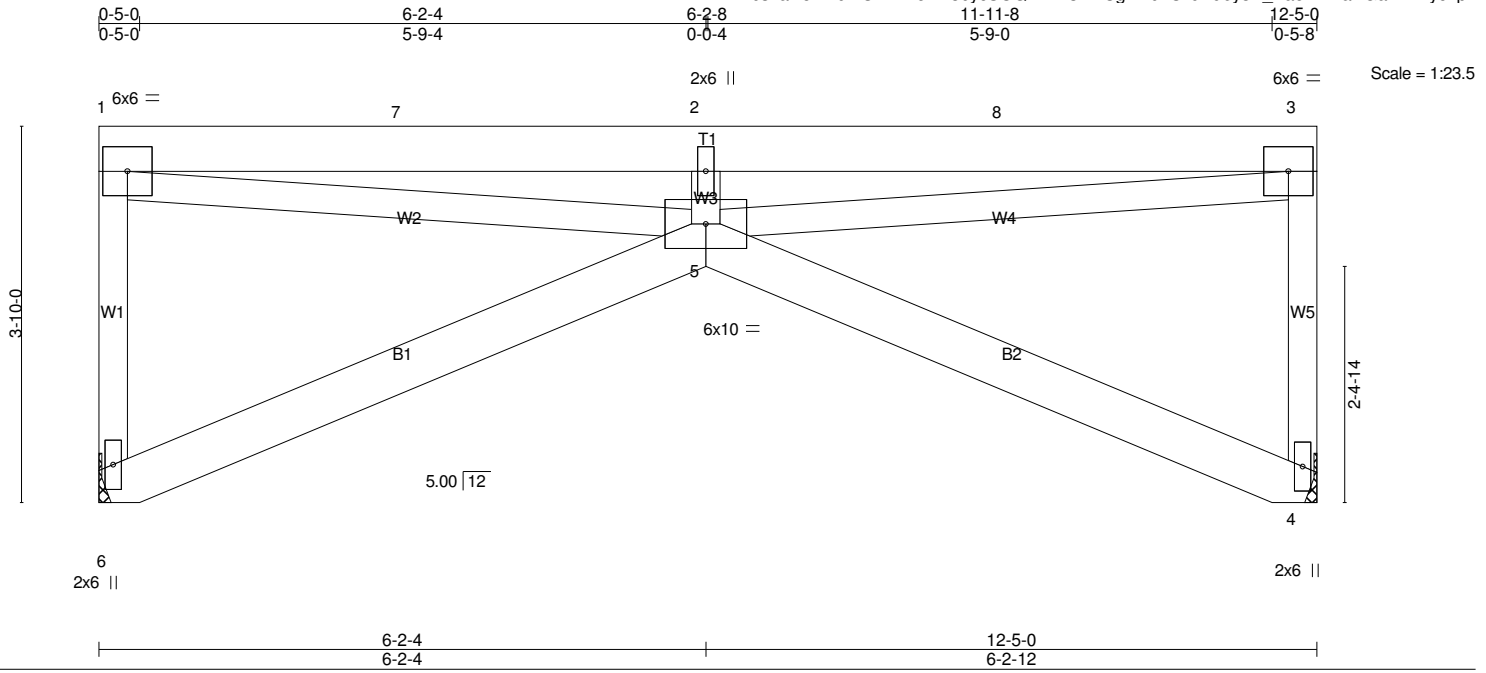
- NOTES-** (10-11)
- 1) Wind: ASCE 7-05; 120mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-05; Pg= 60.0 psf (ground snow); Pf=46.2 psf (flat roof snow); Category II; Exp C; Partially Exp.; Ct=1.1
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) All plates are MT20 plates unless otherwise indicated.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) Refer to girder(s) for truss to truss connections.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=269, 4=270.
 - 9) This truss is designed in accordance with the 2009 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 10) Dimensions are in feet-inches-sixteenths
 - 11) Drawing prepared exclusively for manufacturing by Boise Cascade.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
690396	018	ROOF TRUSS	1	1	F_PMT_E137787_9/18/2017 12:19:12 PM Job Reference (optional)

Boise Structural Solutions, Biddeford, ME 04005, Chipper Roberts

Run: 8.110 s Jun 13 2017 Print: 8.110 s Jun 13 2017 MiTek Industries, Inc. Tue Sep 19 15:35:32 2017 Page 1
ID:bsnaw5m?0I7CX11WeIz30ycSOQ-REAsxrFCgEVb1CxuPu6y3B_KaeKViLaVGaZzFXyc1pv



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 46.2 (Ground Snow=60.0)	2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IBC2009/TPI2007	TC 0.37 BC 0.15 WB 0.85 Matrix-SH	in (loc) l/defl L/d Vert(LL) -0.21 5 >704 240 Vert(TL) -0.33 5 >435 180 Horz(TL) 0.28 4 n/a n/a	MT20	169/123
TCDL 10.0				Weight: 65 lb	FT = 0%
BCLL 0.0 *					
BCDL 10.0					

LUMBER-
TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x6 SPF 1650F 1.5E
WEBS 2x4 SPF-S No.2

BRACING-
TOP CHORD 2-0-0 oc purlins (5-1-15 max.): 1-3, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 6=803/Mechanical, 4=803/Mechanical
Max Uplift6=-336(LC 6), 4=-336(LC 6)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-6=-719/373, 1-7=-2404/1039, 2-7=-2404/1039, 2-8=-2404/1039, 3-8=-2404/1039, 3-4=-719/373
WEBS 1-5=-1035/2390, 2-5=-666/429, 3-5=-1034/2389

- NOTES-** (10-11)
- 1) Wind: ASCE 7-05; 120mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 9-3-4, Exterior(2) 9-3-4 to 12-3-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-05; Pg= 60.0 psf (ground snow); Pf=46.2 psf (flat roof snow); Category II; Exp C; Partially Exp.; Ct=1.1, Lu=50-0-0
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) Refer to girder(s) for truss to truss connections.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=336, 4=336.
 - 8) This truss is designed in accordance with the 2009 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 10) Dimensions are in feet-inches-sixteenths
 - 11) Drawing prepared exclusively for manufacturing by Boise Cascade.

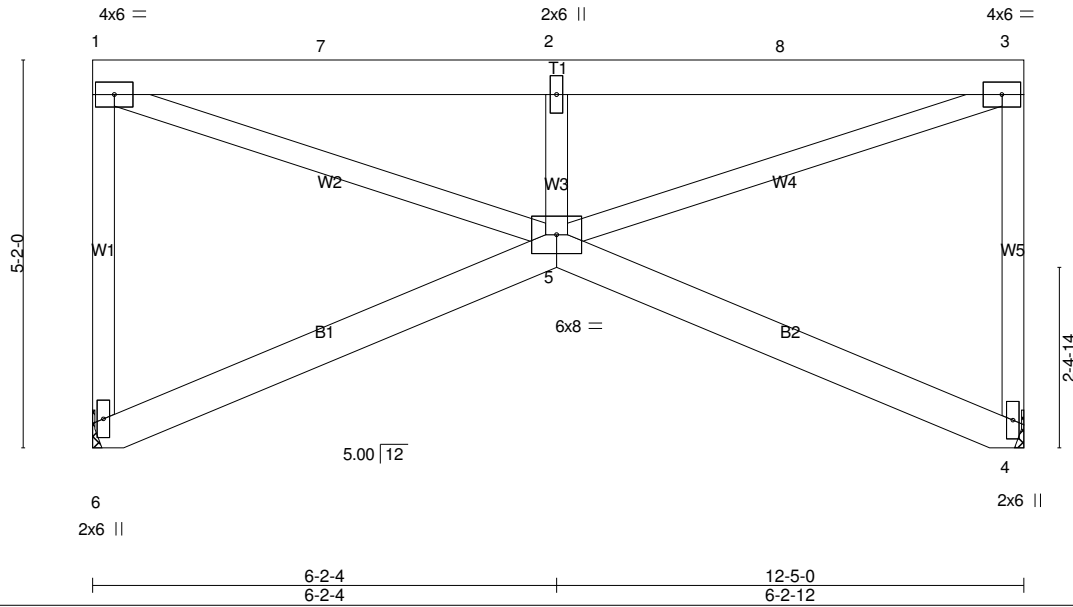
LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	F_MCO_E137787_9/18/2017 12:19:19 PM
690396	019	ROOF TRUSS	1	1	Job Reference (optional)

Boise Structural Solutions, Biddeford, ME 04005, Chipper Roberts

Run: 8.110 s Jun 13 2017 Print: 8.110 s Jun 13 2017 MiTek Industries, Inc. Tue Sep 19 15:35:32 2017 Page 1
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0-5-0 6-2-4 6-2-8 11-11-8 12-5-0
 0-5-0 5-9-4 0-0-4 5-9-0 0-5-8



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 46.2 (Ground Snow=60.0)	2-0-0	TC 0.31	in (loc) l/defl L/d	MT20	169/123
TCDL 10.0	Plate Grip DOL 1.15	BC 0.09	Vert(LL) -0.05 5 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.51	Vert(TL) -0.09 5 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-SH	Horz(TL) 0.07 4 n/a n/a		
	Code IBC2009/TPI2007			Weight: 69 lb	FT = 0%

LUMBER-
 TOP CHORD 2x6 SPF 1650F 1.5E
 BOT CHORD 2x6 SPF 1650F 1.5E
 WEBS 2x4 SPF-S No.2

BRACING-
 TOP CHORD 2-0-0 oc purlins (6-0-0 max.); 1-3, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 6=803/Mechanical, 4=803/Mechanical
 Max Uplift6=-336(LC 6), 4=-336(LC 6)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-6=-742/382, 1-7=-1228/531, 2-7=-1228/531, 2-8=-1228/531, 3-8=-1228/531, 3-4=-741/382
 WEBS 1-5=-561/1297, 2-5=-794/485, 3-5=-561/1296

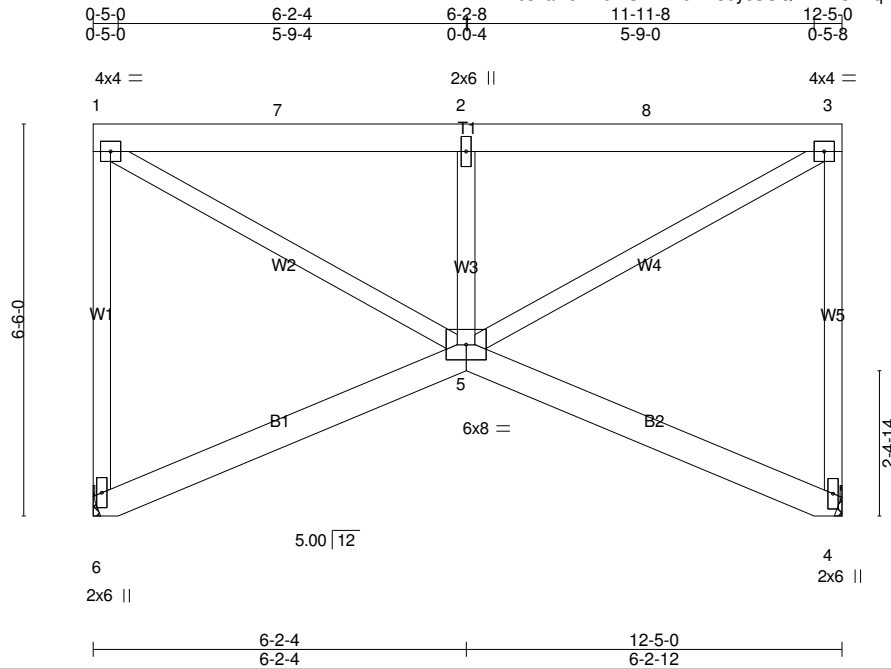
- NOTES-** (10-11)
- 1) Wind: ASCE 7-05; 120mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 9-3-4, Exterior(2) 9-3-4 to 12-3-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-05; Pg= 60.0 psf (ground snow); Pf=46.2 psf (flat roof snow); Category II; Exp C; Partially Exp.; Ct=1.1, Lu=50-0-0
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) Refer to girder(s) for truss to truss connections.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=336, 4=336.
 - 8) This truss is designed in accordance with the 2009 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 10) Dimensions are in feet-inches-sixteenths
 - 11) Drawing prepared exclusively for manufacturing by Boise Cascade.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	F_MCO_E137787_9/18/2017 12:19:26 PM
690396	020	ROOF TRUSS	1	1	Job Reference (optional)

Boise Structural Solutions, Biddeford, ME 04005, Chipper Roberts

Run: 8.110 s Jun 13 2017 Print: 8.110 s Jun 13 2017 MiTek Industries, Inc. Tue Sep 19 15:35:33 2017 Page 1
 ID:bsnaw5m?017CX11WeElz30ycSQ-vRkE8BFqRYdSfMW5zcdBcPXR12hfRvXeVEIXnzyC1pu



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 46.2 (Ground Snow=60.0)	2-0-0	TC 0.58	in (loc) l/defl L/d	MT20	169/123
TCDL 10.0	Plate Grip DOL 1.15	BC 0.09	Vert(LL) -0.03 5 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.42	Vert(TL) -0.05 4-5 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-SH	Horz(TL) 0.04 4 n/a n/a		
	Code IBC2009/TPI2007			Weight: 74 lb	FT = 0%

LUMBER-
 TOP CHORD 2x6 SPF 1650F 1.5E
 BOT CHORD 2x6 SPF 1650F 1.5E
 WEBS 2x4 SPF-S No.2

BRACING-
 TOP CHORD 2-0-0 oc purlins (6-0-0 max.); 1-3, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 6=803/Mechanical, 4=803/Mechanical
 Max Uplift6=-336(LC 6), 4=-336(LC 6)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-6=-745/383, 1-7=-798/345, 2-7=-798/345, 2-8=-798/345, 3-8=-798/345, 3-4=-744/383
 WEBS 1-5=-398/920, 2-5=-816/494, 3-5=-397/918

- NOTES-** (10-11)
- 1) Wind: ASCE 7-05; 120mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 9-3-4, Exterior(2) 9-3-4 to 12-3-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-05; Pg= 60.0 psf (ground snow); Pf=46.2 psf (flat roof snow); Category II; Exp C; Partially Exp.; Ct=1.1, Lu=50-0-0
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) Refer to girder(s) for truss to truss connections.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=336, 4=336.
 - 8) This truss is designed in accordance with the 2009 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 10) Dimensions are in feet-inches-sixteenths
 - 11) Drawing prepared exclusively for manufacturing by Boise Cascade.

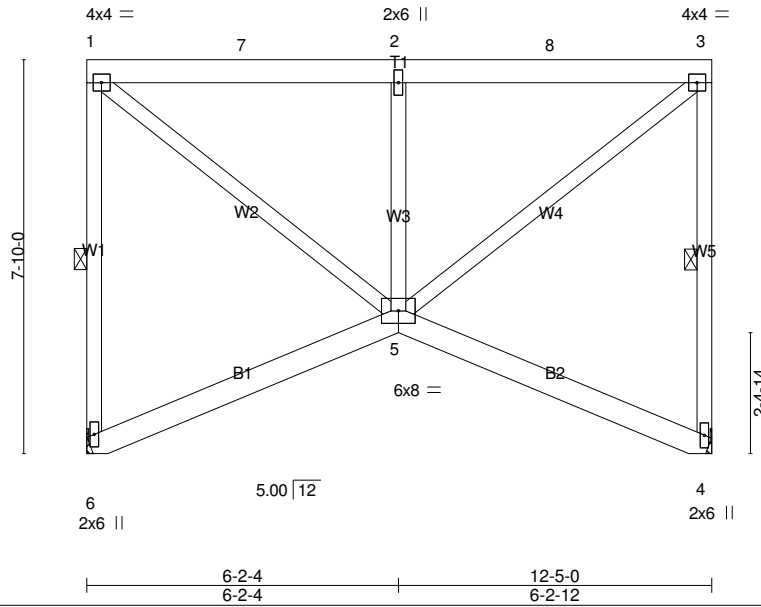
LOAD CASE(S) Standard

Job 690396	Truss 021	Truss Type ROOF TRUSS	Qty 1	Ply 1	F_MCO_E137787_9/18/2017 12:19:30 PM Job Reference (optional)
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Boise Structural Solutions, Biddeford, ME 04005, Chipper Roberts

Run: 8.110 s Jun 13 2017 Print: 8.110 s Jun 13 2017 MiTek Industries, Inc. Tue Sep 19 15:35:33 2017 Page 1
ID:bsnaw5m?0I7CXH1WeElz30ycSOQ-vRkE8BFqRYdSiMW5zcdBcPXWr2hfRvNeVEIXnzyc1pu

0-5-0 6-2-4 6-2-8 11-11-8 12-5-0
0-5-0 5-9-4 0-0-4 5-9-0 0-5-8



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 46.2 (Ground Snow=60.0)	2-0-0	TC 0.27	in (loc) l/defl L/d	MT20	169/123
TCDL 10.0	Plate Grip DOL 1.15	BC 0.09	Vert(LL) -0.03 5 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.43	Vert(TL) -0.05 4-5 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-SH	Horz(TL) 0.03 4 n/a n/a		
	Code IBC2009/TPI2007			Weight: 79 lb	FT = 0%

LUMBER-
TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x6 SPF 1650F 1.5E
WEBS 2x4 SPF-S No.2

BRACING-
TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-3, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 1-6, 3-4

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 6=803/Mechanical, 4=803/Mechanical
Max Uplift6=-336(LC 6), 4=-336(LC 6)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-6=-746/383, 1-7=-588/254, 2-7=-588/254, 2-8=-588/254, 3-8=-588/254, 3-4=-745/383
WEBS 1-5=-325/752, 2-5=-823/497, 3-5=-324/750

- NOTES-** (10-11)
- 1) Wind: ASCE 7-05; 120mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 9-3-4, Exterior(2) 9-3-4 to 12-3-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-05; Pg= 60.0 psf (ground snow); Pf=46.2 psf (flat roof snow); Category II; Exp C; Partially Exp.; Ct=1.1, Lu=50-0-0
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) Refer to girder(s) for truss to truss connections.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=336, 4=336.
 - 8) This truss is designed in accordance with the 2009 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 10) Dimensions are in feet-inches-sixteenths
 - 11) Drawing prepared exclusively for manufacturing by Boise Cascade.

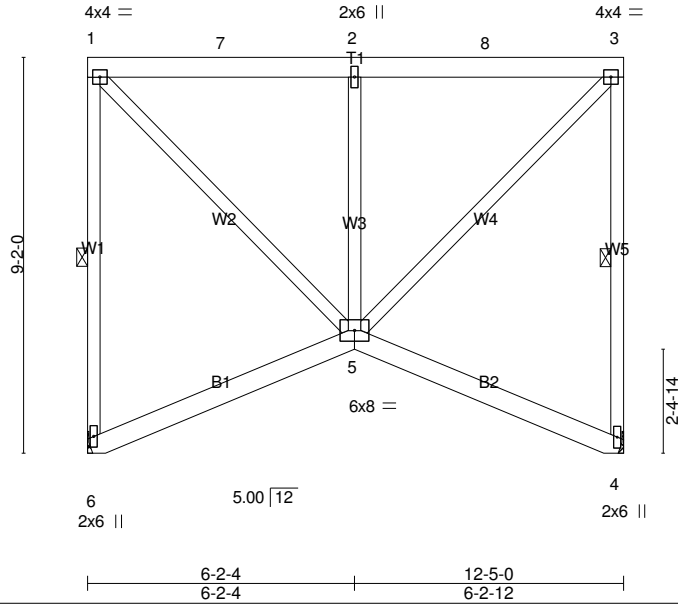
LOAD CASE(S) Standard

Job 690396	Truss 022	Truss Type ROOF TRUSS	Qty 1	Ply 1	F_MCO_E137787_9/18/2017 12:19:35 PM Job Reference (optional)
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Boise Structural Solutions, Biddeford, ME 04005, Chipper Roberts

Run: 8.110 s Jun 13 2017 Print: 8.110 s Jun 13 2017 MiTek Industries, Inc. Tue Sep 19 15:35:33 2017 Page 1
ID:bsnaw5m?0I7CX11WeElz30ycSOQ-vRkE8BFqRYdSfMW5zcdBcPXWp2hfRr8eVEIXnzyC1pu

0-5-0 6-2-4 6-2-8 11-11-8 12-5-0
0-5-0 5-9-4 0-0-4 5-9-0 0-5-8



Scale = 1:53.4

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 46.2 (Ground Snow=60.0)	2-0-0	TC 0.27	in (loc) l/defl L/d	MT20	169/123
TCDL 10.0	Plate Grip DOL 1.15	BC 0.09	Vert(LL) -0.02 5 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.70	Vert(TL) -0.04 4-5 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-SH	Horz(TL) 0.03 4 n/a n/a		
	Code IBC2009/TPI2007			Weight: 85 lb	FT = 0%

LUMBER-
TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x6 SPF 1650F 1.5E
WEBS 2x4 SPF-S No.2

BRACING-
TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-3, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 1-6, 3-4

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 6=803/Mechanical, 4=803/Mechanical
Max Uplift6=-336(LC 6), 4=-336(LC 6)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-6=-746/383, 1-7=-464/200, 2-7=-464/200, 2-8=-464/200, 3-8=-464/200, 3-4=-745/383
WEBS 1-5=-286/663, 2-5=-825/498, 3-5=-285/661

NOTES- (10-11)

- Wind: ASCE 7-05; 120mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 9-3-4, Exterior(2) 9-3-4 to 12-3-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-05; Pg= 60.0 psf (ground snow); Pf=46.2 psf (flat roof snow); Category II; Exp C; Partially Exp.; Ct=1.1, Lu=50-0-0
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=336, 4=336.
- This truss is designed in accordance with the 2009 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Dimensions are in feet-inches-sixteenths
- Drawing prepared exclusively for manufacturing by Boise Cascade.

LOAD CASE(S) Standard

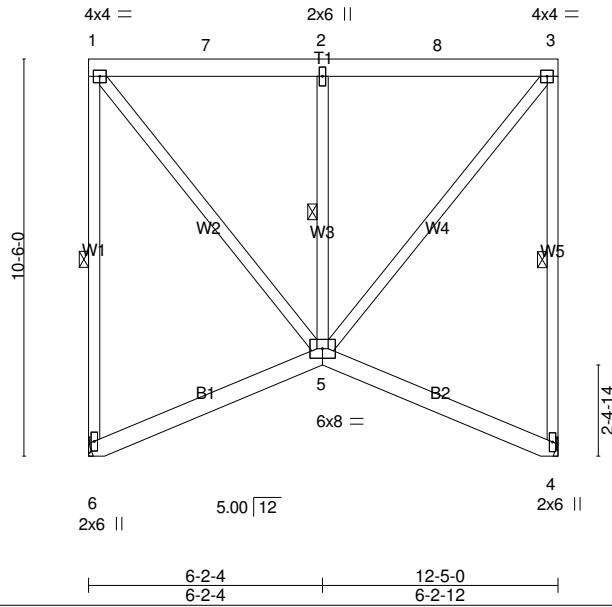
Job	Truss	Truss Type	Qty	Ply	
690396	023	ROOF TRUSS	1	1	F_MCO_E137787_9/18/2017 12:19:38 PM Job Reference (optional)

Boise Structural Solutions, Biddeford, ME 04005, Chipper Roberts

Run: 8.110 s Jun 13 2017 Print: 8.110 s Jun 13 2017 MiTek Industries, Inc. Tue Sep 19 15:35:34 2017 Page 1
ID:bsnaw5m?0I7CX1HWeElz30ycSOQ-NdlcMXGSCslJGW5HXJ8Q9c3gqS1uAKznku24KPyc1pt

0-5-0 6-2-4 6-2-8 11-11-8 12-5-0
0-5-0 5-9-4 0-0-4 5-9-0 0-5-8

Scale = 1:61.0



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 46.2 (Ground Snow=60.0)	2-0-0	TC 0.32	in (loc) l/defl L/d	MT20	169/123
TCDL 10.0	Plate Grip DOL 1.15	BC 0.09	Vert(LL) -0.02 5 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.54	Vert(TL) -0.05 4-5 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-SH	Horz(TL) 0.03 4 n/a n/a		
	Code IBC2009/TPI2007			Weight: 91 lb	FT = 0%

LUMBER-
TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x6 SPF 1650F 1.5E
WEBS 2x4 SPF-S No.2

BRACING-
TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-3, except end verticals.
TOP CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
BOT CHORD 1 Row at midpt 1-6, 3-4, 2-5
WEBS

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 6=803/Mechanical, 4=803/Mechanical
Max Uplift6=-336(LC 6), 4=-336(LC 6)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-6=-745/382, 1-7=-383/165, 2-7=-383/165, 2-8=-383/165, 3-8=-383/165, 3-4=-745/383
WEBS 1-5=-264/611, 2-5=-826/498, 3-5=-262/608

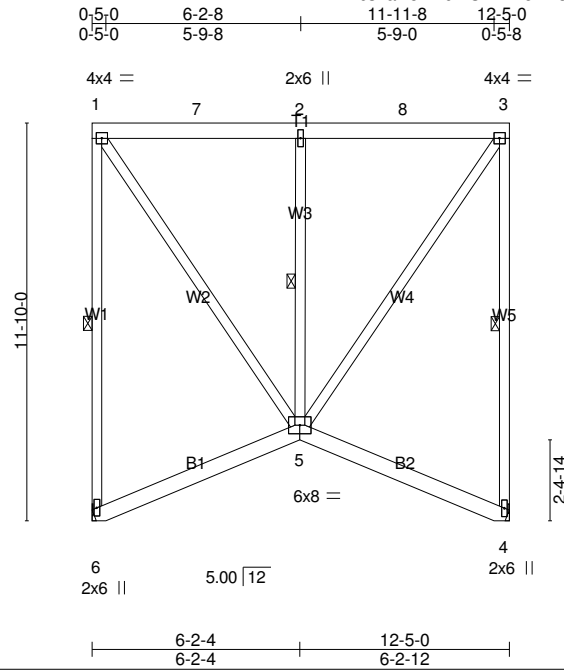
- NOTES-** (10-11)
- 1) Wind: ASCE 7-05; 120mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 9-3-4, Exterior(2) 9-3-4 to 12-3-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-05; Pg= 60.0 psf (ground snow); Pf=46.2 psf (flat roof snow); Category II; Exp C; Partially Exp.; Ct=1.1, Lu=50-0-0
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) Refer to girder(s) for truss to truss connections.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=336, 4=336.
 - 8) This truss is designed in accordance with the 2009 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 10) Dimensions are in feet-inches-sixteenths
 - 11) Drawing prepared exclusively for manufacturing by Boise Cascade.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
690396	024	ROOF TRUSS	1	1	F_MCO_E137787_9/18/2017 12:19:41 PM Job Reference (optional)

Boise Structural Solutions, Biddeford, ME 04005, Chipper Roberts

Run: 8.110 s Jun 13 2017 Print: 8.110 s Jun 13 2017 MiTek Industries, Inc. Tue Sep 19 15:35:34 2017 Page 1
ID:bsnaw5m?017CX11WeElz30ycSOQ-NdlcMXGSCsJGW5HXJ8Q9c3ebS1tAJTnku24kPyc1pt



Scale = 1:68.5

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 46.2 (Ground Snow=60.0)	2-0-0	TC 0.46	in (loc) l/defl L/d	MT20	169/123
TCDL 10.0	Plate Grip DOL 1.15	BC 0.09	Vert(LL) -0.03 5 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.63	Vert(TL) -0.05 4-5 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-SH	Horz(TL) 0.03 4 n/a n/a		
	Code IBC2009/TPI2007			Weight: 97 lb	FT = 0%

LUMBER-
TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x6 SPF 1650F 1.5E
WEBS 2x4 SPF-S No.2

BRACING-
TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-3, except end verticals.
TOP CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
BOT CHORD 1 Row at midpt 1-6, 3-4, 2-5
WEBS

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 6=803/Mechanical, 4=803/Mechanical
Max Uplift6=-336(LC 6), 4=-336(LC 6)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-6=-745/382, 1-7=-325/140, 2-7=-325/140, 2-8=-327/141, 3-8=-327/141, 3-4=-745/383
WEBS 1-5=-248/575, 2-5=-826/498, 3-5=-249/576

NOTES- (10-11)

- 1) Wind: ASCE 7-05; 120mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 9-3-4, Exterior(2) 9-3-4 to 12-3-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-05; Pg= 60.0 psf (ground snow); Pf=46.2 psf (flat roof snow); Category II; Exp C; Partially Exp.; Ct=1.1, Lu=50-0-0
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=336, 4=336.
- 8) This truss is designed in accordance with the 2009 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) Dimensions are in feet-inches-sixteenths
- 11) Drawing prepared exclusively for manufacturing by Boise Cascade.

LOAD CASE(S) Standard

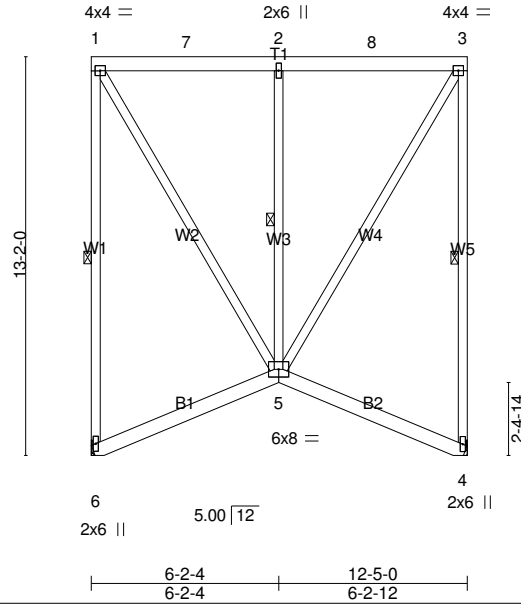
Job 690396	Truss 025	Truss Type ROOF TRUSS	Qty 1	Ply 1	F_MCO_E137787_9/18/2017 12:19:45 PM Job Reference (optional)
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Boise Structural Solutions, Biddeford, ME 04005, Chipper Roberts

Run: 8.110 s Jun 13 2017 Print: 8.110 s Jun 13 2017 MiTek Industries, Inc. Tue Sep 19 15:35:34 2017 Page 1
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0:5-0 6-2-4 6-2-8 11-11-8 12-5-0
0:5-0 5-9-4 0-0-4 5-9-0 0:5-8

Scale = 1:76.1



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 46.2 (Ground Snow=60.0)	2-0-0	TC 0.27	in (loc) l/defl L/d	MT20	169/123
TCDL 10.0	Plate Grip DOL 1.15	BC 0.09	Vert(LL) -0.02 5 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.74	Vert(TL) -0.04 4-5 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-SH	Horz(TL) 0.03 4 n/a n/a		
	Code IBC2009/TPI2007			Weight: 107 lb	FT = 0%

LUMBER-
TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x6 SPF 1650F 1.5E
WEBS 2x4 SPF-S No.2 *Except*
W1,W5: 2x4 SPF 1650F 1.5E

BRACING-
TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-3, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 1-6, 3-4, 2-5

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 6=803/Mechanical, 4=803/Mechanical
Max Uplift6=-336(LC 6), 4=-336(LC 6)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-6=-745/382, 1-7=-283/122, 2-7=-283/122, 2-8=-283/122, 3-8=-283/122, 3-4=-745/383
WEBS 1-5=-238/553, 2-5=-823/497, 3-5=-237/550

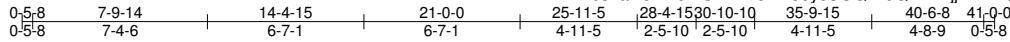
- NOTES-** (10-11)
- 1) Wind: ASCE 7-05; 120mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 9-3-4, Exterior(2) 9-3-4 to 12-3-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-05; Pg= 60.0 psf (ground snow); Pf=46.2 psf (flat roof snow); Category II; Exp C; Partially Exp.; Ct=1.1, Lu=50-0-0
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) Refer to girder(s) for truss to truss connections.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=336, 4=336.
 - 8) This truss is designed in accordance with the 2009 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 10) Dimensions are in feet-inches-sixteenths
 - 11) Drawing prepared exclusively for manufacturing by Boise Cascade.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
690396	301	COMMON GIRDER	1	2	B MOHC_E137787_9/18/2017 12:19:59 PM Job Reference (optional)

Boise Structural Solutions, Biddeford, ME 04005, Chipper Roberts

Run: 8.110 s Jun 13 2017 Print: 8.110 s Jun 13 2017 MTEK Industries, Inc. Tue Sep 19 15:35:36 2017 Page 1
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Scale = 1:97.1

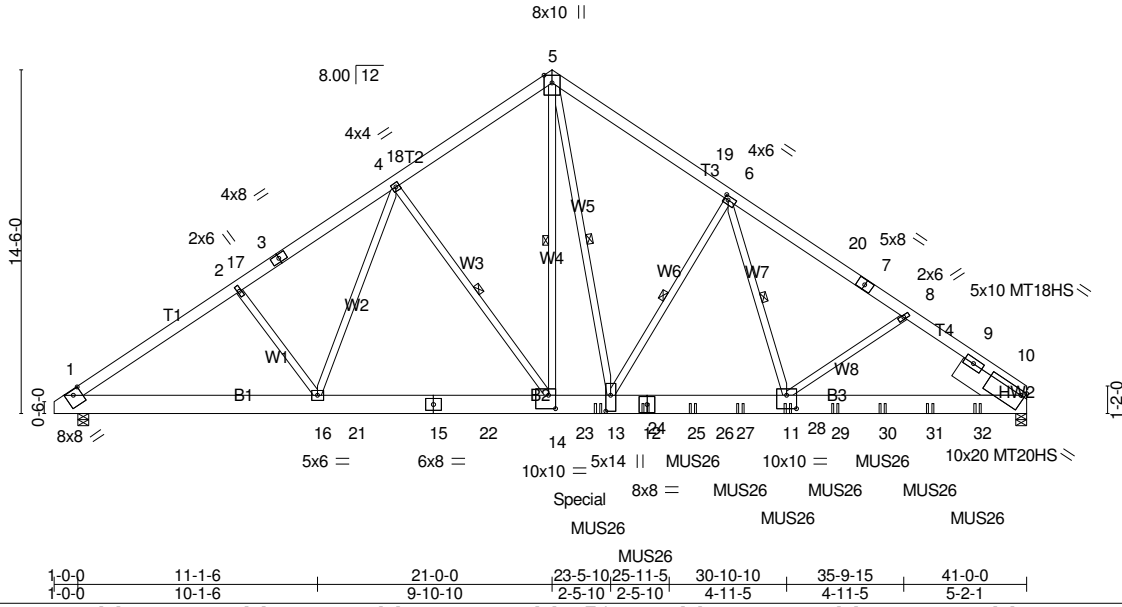


Plate Offsets (X,Y)-- [1:0-4-0,0-2-8], [5:0-3-12,0-4-0], [6:0-2-0,0-2-0], [10:0-8-7,0-5-10], [10:Edge,0-2-4], [10:1-6-9,0-11-4], [11:0-5-0,0-6-12], [13:0-8-0,0-2-8], [14:0-3-8,0-6-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 46.2	2-0-0	TC 0.90	in (loc) l/defl L/d	MT20	169/123
(Ground Snow=60.0)	Plate Grip DOL 1.15	BC 0.58	Vert(LL) -0.30 11-13 >999 240	MT20HS	148/108
TCDL 10.0	Lumber DOL 1.15	WB 0.95	Vert(TL) -0.46 11-13 >999 180	MT18HS	197/144
BCLL 0.0 *	Rep Stress Incr NO	Matrix-SH	Horz(TL) 0.11 10 n/a n/a	Weight: 681 lb	FT = 0%
BCDL 10.0	Code IBC2009/TPI2007				

LUMBER-	BRACING-
TOP CHORD 2x6 SPF 1650F 1.5E	TOP CHORD Structural wood sheathing directly applied or 2-7-11 oc purlins.
BOT CHORD 2x10 SP M 23	BOT CHORD Rigid ceiling directly applied or 8-0-2 oc bracing.
WEBS 2x4 SPF-S No.2 *Except*	WEBS 1 Row at midpt 4-14, 5-14, 5-13, 6-11, 6-13
SLIDER Right 2x12 DF No.2 2-10-11	

REACTIONS. (lb/size) 1=6967/0-5-8 (min. 0-2-14), 10=10918/0-5-8 (min. 0-4-8)
Max Horz 1=-828(LC 5)
Max Uplift 1=-2673(LC 7), 10=-4403(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-11420/4340, 2-17=-10963/4340, 3-17=-10931/4344, 3-4=-10755/4384,
4-18=-10187/4290, 5-18=-10156/4334, 5-19=-11485/5009, 6-19=-11737/4965,
6-20=-14347/5964, 7-20=-14366/5934, 7-8=-14501/5926, 8-9=-14657/5993,
9-10=-14720/5916
BOT CHORD 1-16=-3450/9144, 16-21=-3278/8809, 15-21=-3278/8809, 15-22=-3278/8809,
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27-28=-4162/11040, 11-28=-4162/11040, 11-29=-4671/11847, 29-30=-4671/11847,
30-31=-4671/11847, 31-32=-4671/11847, 10-32=-4671/11847
WEBS 2-16=-344/513, 4-16=-377/462, 4-14=-1089/605, 5-14=-1740/4207, 5-13=-3219/7200,
6-11=-1484/3424, 8-11=-345/552, 6-13=-3258/1472

- NOTES-** (15-16)
- 2-ply truss to be connected together with 10d (0.148"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-7-0 oc.
Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-2-0 oc.
Webs connected as follows: 2x4 - 1 row at 1-0-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Wind: ASCE 7-05; 120mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone; cantilever left and right exposed ; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-05; Pg= 60.0 psf (ground snow); Pf=46.2 psf (flat roof snow); Category II; Exp C; Partially Exp.; Ct=1.1
 - Unbalanced snow loads have been considered for this design.
 - All plates are MT20 plates unless otherwise indicated.
 - Plate(s) at joint(s) 12 checked for a plus or minus 2 degree rotation about its center.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=2673 , 10=4403.
 - This truss is designed in accordance with the 2009 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	
690396	301	COMMON GIRDER	1	2	B_MOHC_E137787_9/18/2017 12:19:59 PM Job Reference (optional)

Boise Structural Solutions, Biddeford, ME 04005, Chipper Roberts

Run: 8.110 s Jun 13 2017 Print: 8.110 s Jun 13 2017 MiTek Industries, Inc. Tue Sep 19 15:35:36 2017 Page 2
ID:bsnaw5m?0I7CXl1WeElz30ycSOQ-K0QMnDljjT?1WqFgekAuE19tGFade804BCXBOLyc1pr

NOTES- (15-16)

- 12) Use USP MUS26 (With 10d nails into Girder & 10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 22-11-4 from the left end to 38-11-4 to connect truss(es) 025 (1 ply 2x6 SPF), 024 (1 ply 2x6 SPF), 023 (1 ply 2x6 SPF), 022 (1 ply 2x6 SPF), 021 (1 ply 2x6 SPF), 020 (1 ply 2x6 SPF), 019 (1 ply 2x6 SPF), 018 (1 ply 2x6 SPF), 017 (1 ply 2x6 SP) to back face of bottom chord.
- 13) Fill all nail holes where hanger is in contact with lumber.
- 14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 5162 lb down and 2419 lb up at 22-2-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 15) Dimensions are in feet-inches-sixteenths
- 16) Drawing prepared exclusively for manufacturing by Boise Cascade.

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced) + Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-5=-112, 5-10=-112, 1-21=-20, 21-22=-60, 22-25=-20, 25-28=-60, 10-28=-20

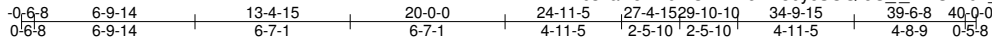
Concentrated Loads (lb)

Vert: 11=-783(B) 12=-783(B) 23=-5162(B) 24=-783(B) 26=-783(B) 27=-783(B) 29=-783(B) 30=-783(B) 31=-783(B) 32=-772(B)

Job	Truss	Truss Type	Qty	Ply	
690396	302	COMMON GIRDER	1	2	B_MOHC_E137787_9/18/2017 12:20:05 PM Job Reference (optional)

Boise Structural Solutions, Biddeford, ME 04005, Chipper Roberts

Run: 8.110 s Jun 13 2017 Print: 8.110 s Jun 13 2017 MTek Industries, Inc. Tue Sep 19 15:35:37 2017 Page 1
ID:bsnaw5m?017CX11WeElz30ycSOQ-oC_I_YILUn7u7_qsCRh7mFh5PxcNb1EQsGkwkyc1pq



8x10 MT20HS ||

Scale = 1:97.9

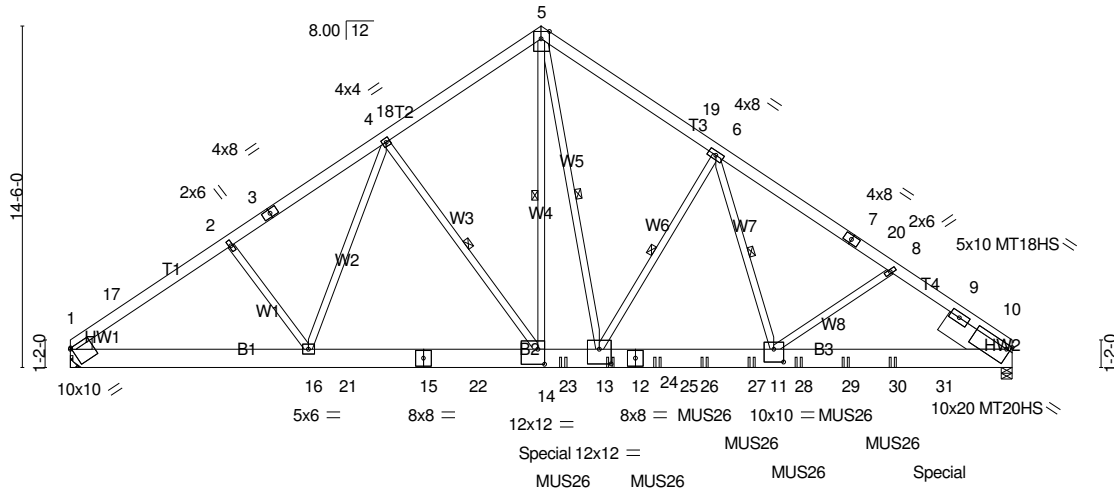


Plate Offsets (X,Y)-- [1:0-0-8,0-0-8], [5:0-3-12,Edge], [10:1-6-9,0-11-4], [10:0-8-7,0-5-10], [10:Edge,0-2-4], [11:0-5-0,0-6-8], [13:0-6-0,0-7-8], [14:0-3-8,0-7-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 46.2	2-0-0	TC 0.75	in (loc) l/defl L/d	MT20	169/123
(Ground Snow=60.0)	Plate Grip DOL 1.15	BC 0.54	Vert(LL) -0.29 11-13 >999 240	MT20HS	148/108
TCDL 10.0	Lumber DOL 1.15	WB 0.90	Vert(TL) -0.45 11-13 >999 180	MT18HS	197/144
BCLL 0.0 *	Rep Stress Incr NO	Matrix-SH	Horz(TL) 0.12 10 n/a n/a		Weight: 674 lb FT = 0%
BCDL 10.0	Code IBC2009/TPI2007				

LUMBER-	BRACING-
TOP CHORD 2x6 SPF 1650F 1.5E	TOP CHORD Structural wood sheathing directly applied or 2-5-8 oc purlins.
BOT CHORD 2x10 SP M 23	BOT CHORD Rigid ceiling directly applied or 7-10-9 oc bracing.
WEBS 2x4 SPF-S No.2 *Except*	WEBS 1 Row at midpt 4-14, 5-14, 5-13, 6-11, 6-13
W4,W5: 2x4 SPF 1650F 1.5E	

WEDGE
Left: 2x6 SPF 1650F 1.5E
SLIDER Right 2x12 DF No.2 2-10-11

REACTIONS. (lb/size) 1=7686/Mechanical, 10=10912/0-5-8 (min. 0-4-8)
Max Horz 1=-828(LC 5)
Max Uplift1=-3029(LC 7), 10=-4421(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-17=-12346/4814, 2-17=-11943/4837, 2-3=-11898/4845, 3-4=-11689/4886, 4-18=-11169/4810, 5-18=-11138/4854, 5-19=-12161/5381, 6-19=-12414/5336, 6-7=-14860/6216, 7-20=-14922/6178, 8-20=-14990/6172, 8-9=-15116/6208, 9-10=-15186/6136
BOT CHORD 1-16=-3847/9732, 16-21=-3743/9606, 15-21=-3743/9606, 15-22=-3743/9606, 14-22=-3743/9606, 14-23=-3510/9121, 13-23=-3510/9121, 13-24=-4443/11523, 12-24=-4443/11523, 12-25=-4443/11523, 25-26=-4443/11523, 26-27=-4443/11523, 11-27=-4443/11523, 11-28=-4822/12188, 28-29=-4822/12188, 29-30=-4822/12188, 30-31=-4822/12188, 10-31=-4822/12188
WEBS 2-16=-307/483, 4-16=-315/432, 4-14=-1053/572, 5-14=-2913/6566, 5-13=-2515/5737, 6-11=-1324/3158, 8-11=-393/513, 6-13=-3089/1347

- NOTES- (16-17)
- 2-ply truss to be connected together with 10d (0.148"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-7-0 oc.
Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-11-0 oc.
Webs connected as follows: 2x4 - 1 row at 1-0-0 oc, Except member 14-5 2x4 - 1 row at 0-6-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Wind: ASCE 7-05; 120mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone; cantilever left and right exposed ; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-05; Pg= 60.0 psf (ground snow); Pf=46.2 psf (flat roof snow); Category II; Exp C; Partially Exp.; Ct=1.1
 - Unbalanced snow loads have been considered for this design.
 - All plates are MT20 plates unless otherwise indicated.
 - Plate(s) at joint(s) 7 checked for a plus or minus 4 degree rotation about its center.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Refer to girder(s) for truss to truss connections.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	
690396	302	COMMON GIRDER	1	2	B_MOHC_E137787_9/18/2017 12:20:05 PM Job Reference (optional)

Boise Structural Solutions, Biddeford, ME 04005, Chipper Roberts

Run: 8.110 s Jun 13 2017 Print: 8.110 s Jun 13 2017 MiTek Industries, Inc. Tue Sep 19 15:35:37 2017 Page 2
ID:bsnaw5m?017CX11WeEiz30ycSOQ-oC_I_YILUn7u7_qsCRh7mFh5PxcNb1EQsGkwkyc1pq

NOTES- (16-17)

- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=3029, 10=4421.
- 12) This truss is designed in accordance with the 2009 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 13) Use USP MUS26 (With 10d nails into Girder & 10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 21-11-4 from the left end to 35-11-4 to connect truss(es) 025 (1 ply 2x6 SPF), 024 (1 ply 2x6 SPF), 023 (1 ply 2x6 SPF), 022 (1 ply 2x6 SPF), 021 (1 ply 2x6 SPF), 020 (1 ply 2x6 SPF), 019 (1 ply 2x6 SPF), 018 (1 ply 2x6 SPF) to front face of bottom chord.
- 14) Fill all nail holes where hanger is in contact with lumber.
- 15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 5918 lb down and 2873 lb up at 21-2-0, and 772 lb down and 294 lb up at 37-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 16) Dimensions are in feet-inches-sixteenths
- 17) Drawing prepared exclusively for manufacturing by Boise Cascade.

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced) + Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-5=-112, 5-10=-112, 1-21=-20, 21-22=-60, 22-25=-20, 25-27=-60, 10-27=-20

Concentrated Loads (lb)

Vert: 14=-5918(F) 23=-783(F) 24=-783(F) 25=-783(F) 26=-783(F) 27=-783(F) 28=-783(F) 29=-783(F) 30=-783(F) 31=-772(F)

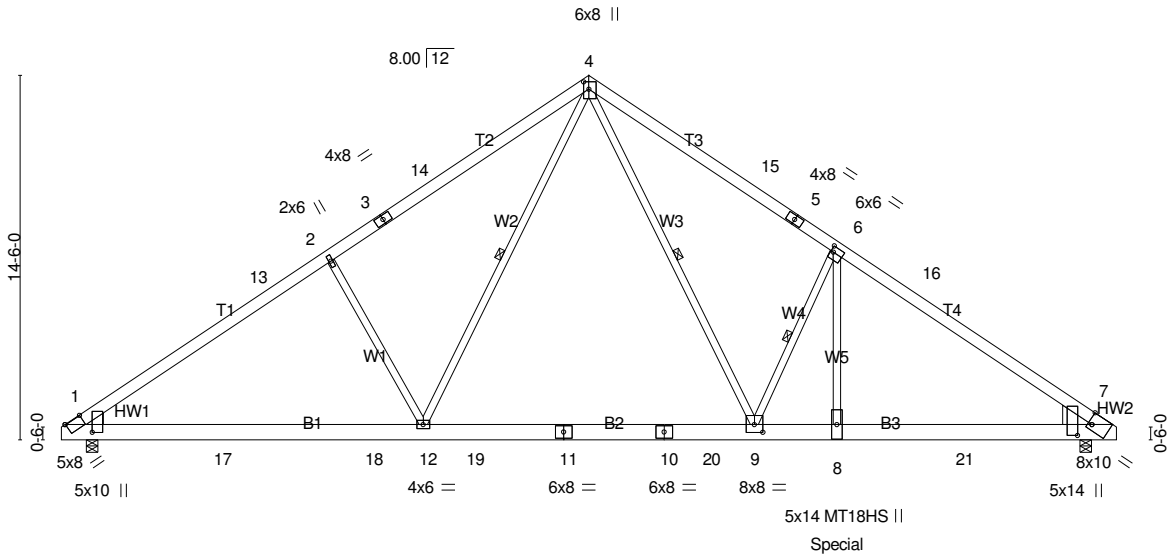
Job 690396	Truss 303	Truss Type COMMON GIRDER	Qty 1	Ply 2	B_MOHC_E137787_9/18/2017 12:20:13 PM Job Reference (optional)
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Boise Structural Solutions, Biddeford, ME 04005, Chipper Roberts

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0-5-8	10-8-12	21-0-0	30-10-8	31-3-4	41-6-8	42-0-0
0-5-8	10-3-4	10-3-4	9-10-8	0-4-12	10-3-4	0-5-8

Scale = 1:91.7



1-0-0	14-4-15	27-7-1	30-10-8	41-0-0	42-0-0
1-0-0	13-4-15	13-2-3	3-3-7	10-1-8	1-0-0

Plate Offsets (X,Y)-- [1:0-3-12,1-0-15], [1:0-8-2,0-0-4], [4:0-3-8,0-2-8], [6:0-1-4,0-2-12], [7:0-1-12,Edge], [7:0-5-4,0-6-12], [9:0-4-0,0-3-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 46.2 (Ground Snow=60.0)	2-0-0 Plate Grip DOL 1.15	TC 0.96	in (loc) l/defl L/d	MT20	169/123
TCDL 10.0	Lumber DOL 1.15	BC 1.00	Vert(LL) -0.31 7-8 >999 240	MT18HS	197/144
BCLL 0.0 *	Rep Stress Incr NO	WB 0.90	Vert(TL) -0.47 7-8 >999 180		
BCDL 10.0	Code IBC2009/TPI2007	Matrix-SH	Horz(TL) 0.11 7 n/a n/a		
				Weight: 592 lb	FT = 0%

LUMBER-
TOP CHORD 2x6 SPF 1650F 1.5E *Except*
T3,T4: 2x6 SP M 23
BOT CHORD 2x8 SP M 23
WEBS 2x4 SPF 1650F 1.5E *Except*
W1: 2x4 SPF-S No.2
WEDGE
Left: 2x6 SPF 1650F 1.5E, Right: 2x10 SP M 23

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-1-4 oc purlins.
BOT CHORD Rigid ceiling directly applied or 8-8-9 oc bracing.
WEBS 1 Row at midpt 4-9, 6-9, 4-12

REACTIONS. (lb/size) 1=5122/0-5-8 (min. 0-2-2), 7=8819/0-5-8 (min. 0-3-10)
Max Horz 1=-833(LC 11)
Max Uplift1=-1418(LC 7), 7=-2562(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-13=-8171/2135, 2-13=-7589/2171, 2-3=-7616/2247, 3-14=-7357/2268, 4-14=-7263/2310,
4-15=-10536/3350, 5-15=-10638/3295, 5-6=-10866/3290, 6-16=-13956/4134,
7-16=-14567/4097
BOT CHORD 1-17=-1632/6478, 17-18=-1632/6478, 12-18=-1632/6478, 12-19=-1166/5315,
11-19=-1166/5315, 10-11=-1166/5315, 10-20=-1166/5315, 9-20=-1166/5315,
8-9=-3111/11714, 8-21=-3111/11714, 7-21=-3111/11714
WEBS 4-9=-2548/8241, 6-9=-7362/2606, 4-12=-572/1837, 2-12=-1071/712, 6-8=-2325/7626

NOTES- (12-13)

- 2-ply truss to be connected together with 10d (0.148"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 1-0-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 1-0-0 oc.
Webs connected as follows: 2x4 - 1 row at 1-0-0 oc, Except member 6-8 2x4 - 1 row at 0-2-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Wind: ASCE 7-05; 120mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone; cantilever left and right exposed ; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-05; Pg= 60.0 psf (ground snow); Pf=46.2 psf (flat roof snow); Category II; Exp C; Partially Exp.; Ct=1.1
- Unbalanced snow loads have been considered for this design.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=1418, 7=2562.
- This truss is designed in accordance with the 2009 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 7708 lb down and 2371 lb up at 30-10-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

Job	Truss	Truss Type	Qty	Ply	
690396	303	COMMON GIRDER	1	2	B_MOHC_E137787_9/18/2017 12:20:13 PM Job Reference (optional)

Boise Structural Solutions, Biddeford, ME 04005, Chipper Roberts

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- 12) Dimensions are in feet-inches-sixteenths
- 13) Drawing prepared exclusively for manufacturing by Boise Cascade.

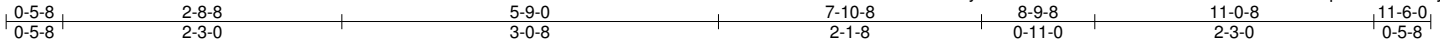
LOAD CASE(S) Standard

- 1) Dead + Snow (balanced) + Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
 - Vert: 1-4=-112, 4-7=-112, 1-17=-20, 17-18=-60, 18-19=-20, 19-20=-60, 8-20=-20, 8-21=-60, 7-21=-20
- Concentrated Loads (lb)
 - Vert: 8=-7708(B)

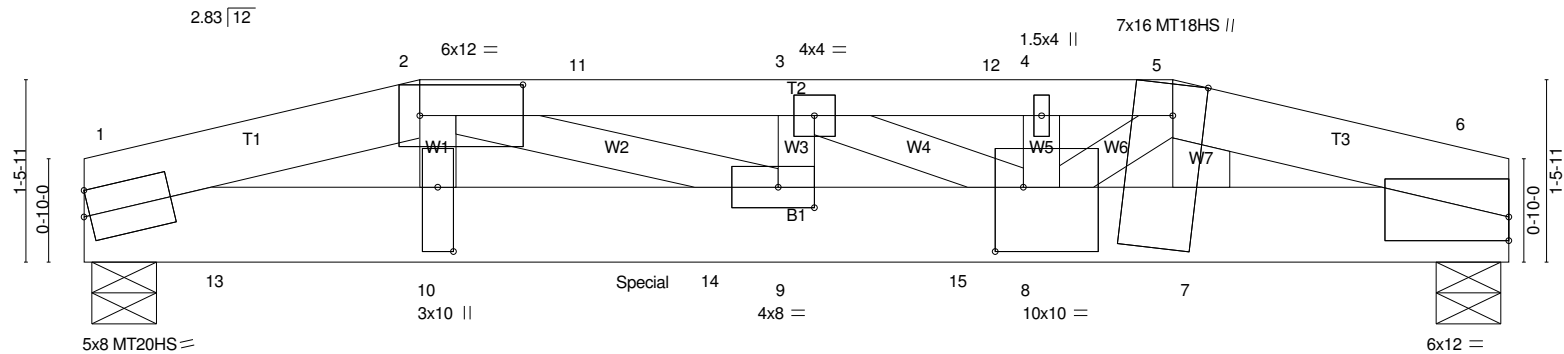
Job 690396	Truss 304	Truss Type HIP GIRDER	Qty 1	Ply 3	0_0_E137787_9/18/2017 12:20:31 PM Job Reference (optional)
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Boise Structural Solutions, Biddeford, ME 04005, Chipper Roberts

Run: 8.110 s Jun 13 2017 Print: 8.110 s Jun 13 2017 MTEK Industries, Inc. Tue Sep 19 15:35:38 2017 Page 1
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Scale = 1:18.6



0-0-12	2-8-8	5-9-0	7-10-8	8-9-8	11-5-4	11-6-0
0-0-12	2-7-12	3-0-8	2-1-8	0-11-0	2-7-12	0-0-12

Plate Offsets (X,Y)-- [2:0-10-0,0-3-0], [5:0-3-1,Edge], [6:0-0-0,0-2-5], [7:0-0-5,0-2-12], [8:0-2-12,0-6-4], [9:0-3-8,0-2-0], [10:0-6-4,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 46.2 (Ground Snow=60.0)	2-0-0 Plate Grip DOL 1.15	TC 0.87	in (loc) l/defl L/d	MT20 169/123	
TCDL 10.0	Lumber DOL 1.15	BC 0.79	Vert(LL) -0.18 8-9 >747 240	MT20HS 148/108	
BCLL 0.0 *	Rep Stress Incr NO	WB 0.77	Vert(TL) -0.27 8-9 >483 180	MT18HS 244/190	
BCDL 10.0	Code IBC2009/TPI2007	Matrix-SH	Horz(TL) 0.05 6 n/a n/a	Weight: 196 lb	FT = 0%

LUMBER-	BRACING-
TOP CHORD 2x6 SPF 1650F 1.5E *Except* T2: 2x4 SP 2700F 2.2E, T3: 2x6 SP M 23	TOP CHORD Structural wood sheathing directly applied or 3-6-7 oc purlins, except 2-0-0 oc purlins (2-4-7 max.): 2-5.
BOT CHORD 2x8 SP M 23	BOT CHORD Rigid ceiling directly applied or 7-2-8 oc bracing.
WEBS 2x4 SPF-S No.2 *Except* W7: 2x6 SP M 23, W5,W6: 2x4 SP 2700F 2.2E	

REACTIONS. (lb/size) 1=7502/0-6-4 (min. 0-2-1), 6=9198/0-6-4 (min. 0-2-9)
Max Horz 1=29(LC 17)
Max Uplift 1=-1915(LC 5), 6=-2885(LC 6)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-17051/4640, 2-11=-23310/6786, 3-11=-23306/6786, 3-12=-25461/7918,
4-12=-25461/7918, 4-5=-25461/7918, 5-6=-20187/6299
BOT CHORD 1-13=-4300/15860, 10-13=-4300/15860, 10-14=-4394/16335, 9-14=-4394/16335,
9-15=-6734/23303, 8-15=-6734/23303, 7-8=-5748/18541, 6-7=-5778/18652
WEBS 2-10=-643/3227, 2-9=-2500/7321, 3-9=-1161/679, 5-7=-160/588, 4-8=-144/364,
3-8=-1337/2624, 5-8=-2942/9622

- NOTES-** (16-17)
- Special connection required to distribute web loads equally between all plies.
 - 3-ply truss to be connected together with 10d (0.148"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-7-0 oc, 2x4 - 1 row at 0-7-0 oc.
Bottom chords connected as follows: 2x8 - 4 rows staggered at 0-4-0 oc.
Webs connected as follows: 2x4 - 1 row at 1-0-0 oc, Except member 4-8 2x4 - 2 rows staggered at 0-4-0 oc, 2x6 - 2 rows staggered at 1-0-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Wind: ASCE 7-05; 120mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone; cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-05; Pg= 60.0 psf (ground snow); Pf=46.2 psf (flat roof snow); Category II; Exp C; Partially Exp.; Ct=1.1, Lu=50-0-0
 - Unbalanced snow loads have been considered for this design.
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=1915, 6=2885.
 - This truss is designed in accordance with the 2009 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Job	Truss	Truss Type	Qty	Ply	
690396	304	HIP GIRDER	1	3	0_0_E137787_9/18/2017 12:20:31 PM Job Reference (optional)

Boise Structural Solutions, Biddeford, ME 04005, Chipper Roberts

Run: 8.110 s Jun 13 2017 Print: 8.110 s Jun 13 2017 MiTek Industries, Inc. Tue Sep 19 15:35:38 2017 Page 2
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NOTES- (16-17)

- 14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1550 lb down and 225 lb up at 1-1-12, 1549 lb down and 226 lb up at 3-1-12, 1549 lb down and 226 lb up at 5-1-12, 1549 lb down and 226 lb up at 7-1-12, and 7666 lb down and 3081 lb up at 7-10-8, and 1386 lb down and 226 lb up at 9-1-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 15) Special hanger(s) or other connection device(s) shall be provided at 4-6-2 from the left end sufficient to connect truss(es) 008 (1 ply 2x6 SP) to front face of bottom chord. The design/selection of such special connection device(s) is the responsibility of others.
- 16) Dimensions are in feet-inches-sixteenths
- 17) Drawing prepared exclusively for manufacturing by Boise Cascade.

LOAD CASE(S) Standard

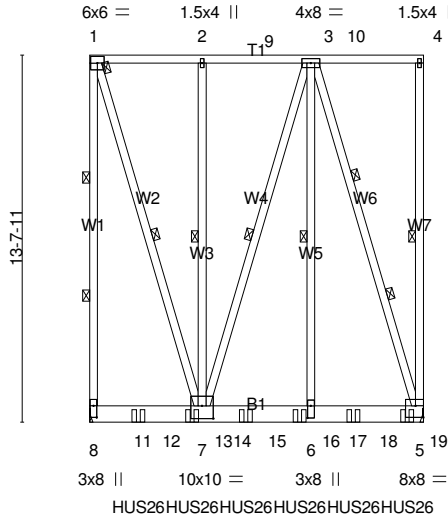
- 1) Dead + Snow (balanced) + Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 1-2=-112, 2-5=-112, 5-6=-112, 1-6=-20
 - Concentrated Loads (lb)
 - Vert: 10=-1549(F) 7=-1386(F) 8=-7666(F) 13=-1550(F) 14=-1549(F) 15=-1549(F)

Job 690396	Truss 305	Truss Type FLAT GIRDER	Qty 1	Ply 2	H_PMT_E137787_9/18/2017 12:20:26 PM Job Reference (optional)
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Boise Structural Solutions, Biddeford, ME 04005, Chipper Roberts

Run: 8.110 s Jun 13 2017 Print: 8.110 s Jun 13 2017 MTEK Industries, Inc. Tue Sep 19 15:35:39 2017 Page 1
ID:bsnaw5m?017CX11WeElz30ycSOQ-kb5VPEKb0ONcNHZEKskbsgmSfTInrWDWtAlr?dyc1po

0-5-8 4-2-4 8-2-12 11-11-8 12-5-0
0-5-8 3-8-12 4-0-8 3-8-12 0-5-8



Scale = 1:85.7

Plate Offsets (X,Y)-- [5:Edge,0-5-4], [6:0-5-8,0-1-8], [7:0-5-0,0-5-12], [8:0-5-4,0-1-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 46.2	Plate Grip DOL 1.15		TC 0.70	Vert(LL) -0.07	6-7	>999	240	MT20	197/144
(Ground Snow=60.0)	Lumber DOL 1.15		BC 0.23	Vert(TL) -0.11	6-7	>999	180		
TCDL 10.0	Rep Stress Incr NO		WB 0.86	Horz(TL) 0.00	5	n/a	n/a		
BCLL 0.0 *	Code IBC2009/TPI2007		Matrix-SH						
BCDL 10.0								Weight: 312 lb	FT = 0%

LUMBER-

TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x8 SP M 23
WEBS 2x4 SPF 1650F 1.5E *Except*
W1: 2x4 SPF 2100F 1.8E

BRACING-

TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-4, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-5, 1-7, 2-7, 3-7, 3-6
2 Rows at 1/3 pts 1-8, 3-5

REACTIONS. (lb/size) 8=5181/Mechanical, 5=5938/Mechanical
Max Uplift8=2407(LC 5), 5=2861(LC 5)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-4220/2014, 1-2=-1238/584, 2-9=-1238/584, 9-10=-1238/584, 3-10=-1238/584
BOT CHORD 7-14=-564/1178, 14-15=-564/1178, 15-16=-564/1178, 6-16=-564/1178, 6-17=-564/1178, 17-18=-564/1178,
18-19=-564/1178, 5-19=-564/1178
WEBS 1-7=-1978/4195, 2-7=-465/293, 3-6=-1472/3136, 3-5=-3996/1912

NOTES- (15-16)

- 2-ply truss to be connected together with 10d (0.148"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 1-0-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-7-0 oc.
Webs connected as follows: 2x4 - 1 row at 1-0-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Wind: ASCE 7-05; 120mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone; cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-05; Pg= 60.0 psf (ground snow); Pf=46.2 psf (flat roof snow); Category II; Exp C; Partially Exp.; Ct=1.1, Lu=50-0-0
- Unbalanced snow loads have been considered for this design.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=2407, 5=2861.
- This truss is designed in accordance with the 2009 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Use USP HUS26 (With 16d nails into Girder & 16d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-9-12 from the left end to 11-9-12 to connect truss(es) 007 (1 ply 2x6 SPF), 008 (1 ply 2x6 SPF) to back face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.
- Dimensions are in feet-inches-sixteenths
- Drawing prepared exclusively for manufacturing by Boise Cascade.

LOAD CASE(S) Standard

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	
690396	305	FLAT GIRDER	1	2	H_PMT_E137787_9/18/2017 12:20:26 PM Job Reference (optional)

Boise Structural Solutions, Biddeford, ME 04005, Chipper Roberts

Run: 8.110 s Jun 13 2017 Print: 8.110 s Jun 13 2017 MiTek Industries, Inc. Tue Sep 19 15:35:39 2017 Page 2
ID:bsnaw5m?0i7CX11WeElz30ycSOQ-kb5VPEKb0ONcNHZEKskbsgmSfTInrVWDWtAlr?dyc1po

LOAD CASE(S) Standard

1) Dead + Snow (balanced) + Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-4=-112, 8-12=-60, 12-14=-20, 14-18=-60, 5-18=-20

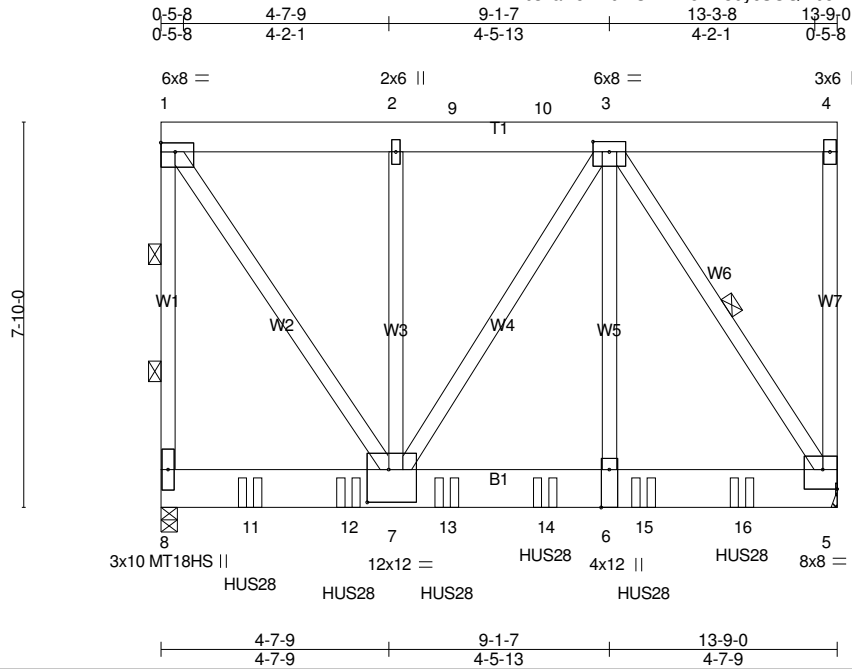
Concentrated Loads (lb)

Vert: 11=-1596(B) 13=-1635(B) 15=-1487(B) 16=-1479(B) 17=-1473(B) 19=-1516(B)

Job 690396	Truss 306	Truss Type FLAT GIRDER	Qty 1	Ply 2	H_MCO_E137787_9/18/2017 12:20:29 PM Job Reference (optional)
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Boise Structural Solutions, Biddeford, ME 04005, Chipper Roberts

Run: 8.110 s Jun 13 2017 Print: 8.110 s Jun 13 2017 MTek Industries, Inc. Tue Sep 19 15:35:39 2017 Page 1
ID:bsnaw5m?017CX11WeElz30ycSOQ-kb5VPEKb0ONcNHZEKskbsgmPITgdrJAWtAlr?dyc1po



Scale = 1:46.8

Plate Offsets (X,Y)-- [1:Edge,0-2-4], [3:0-4-0,0-2-8], [5:Edge,0-4-12], [6:0-9-4,Edge], [7:0-5-4,0-8-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 46.2 (Ground Snow=60.0)	2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	TC 0.88 BC 0.37 WB 0.99 Matrix-SH	in (loc) l/defl L/d Vert(LL) -0.09 6-7 >999 240 Vert(TL) -0.13 6-7 >999 180 Horz(TL) 0.01 5 n/a n/a	MT20 MT18HS	169/123 169/123
TCDL 10.0 BCLL 0.0 * BCDL 10.0	Rep Stress Incr NO Code IBC2009/TPI2007			Weight: 293 lb	FT = 0%

LUMBER-

TOP CHORD 2x8 SP M 23
BOT CHORD 2x10 SP M 23
WEBS 2x4 SPF-S No.2 *Except*
W2,W6: 2x4 SPF 1650F 1.5E

BRACING-

TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-4, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 3-5
2 Rows at 1/3 pts 1-8

REACTIONS. (lb/size) 8=7870/0-4-0 (min. 0-3-4), 5=7745/Mechanical
Max Uplift8=-2396(LC 5), 5=-2359(LC 5)

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

TOP CHORD 1-8=-6266/1956, 1-2=-3871/1167, 2-9=-3871/1167, 9-10=-3871/1167, 3-10=-3871/1167, 4-5=-270/143
BOT CHORD 7-13=-1113/3651, 13-14=-1113/3651, 6-14=-1113/3651, 6-15=-1113/3651, 15-16=-1113/3651, 5-16=-1113/3651
WEBS 1-7=-2135/7083, 2-7=-395/311, 3-7=-140/455, 3-6=-1354/4904, 3-5=-6837/2085

NOTES- (16-17)

- 2-ply truss to be connected together with 10d (0.148"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 1-0-0 oc, 2x8 - 2 rows staggered at 1-0-0 oc.
Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-4-0 oc.
Webs connected as follows: 2x4 - 1 row at 1-0-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Wind: ASCE 7-05; 120mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone; cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-05; Pg= 60.0 psf (ground snow); Pf=46.2 psf (flat roof snow); Category II; Exp C; Partially Exp.; Ct=1.1, Lu=50-0-0
- Unbalanced snow loads have been considered for this design.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=2396, 5=2359.
- This truss is designed in accordance with the 2009 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Use USP HUS28 (With 16d nails into Girder & 16d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-9-12 from the left end to 11-9-12 to connect truss(es) 010 (1 ply 2x6 SPF) to front face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.
- Dimensions are in feet-inches-sixteenths
- Drawing prepared exclusively for manufacturing by Boise Cascade.

LOAD CASE(S) Standard

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	
690396	306	FLAT GIRDER	1	2	H_MCO_E137787_9/18/2017 12:20:29 PM Job Reference (optional)

Boise Structural Solutions, Biddeford, ME 04005, Chipper Roberts

Run: 8.110 s Jun 13 2017 Print: 8.110 s Jun 13 2017 MiTek Industries, Inc. Tue Sep 19 15:35:39 2017 Page 2
ID:bsnaw5m?017CX11WeEiz30ycSOQ-kb5VPEKb0ONcNHZEKskbsgmPITgdrUAWtAlr?dyc1po

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-112, 5-8=-20

Concentrated Loads (lb)

Vert: 11=-2306(F) 12=-2306(F) 13=-2306(F) 14=-2306(F) 15=-2306(F) 16=-2306(F)

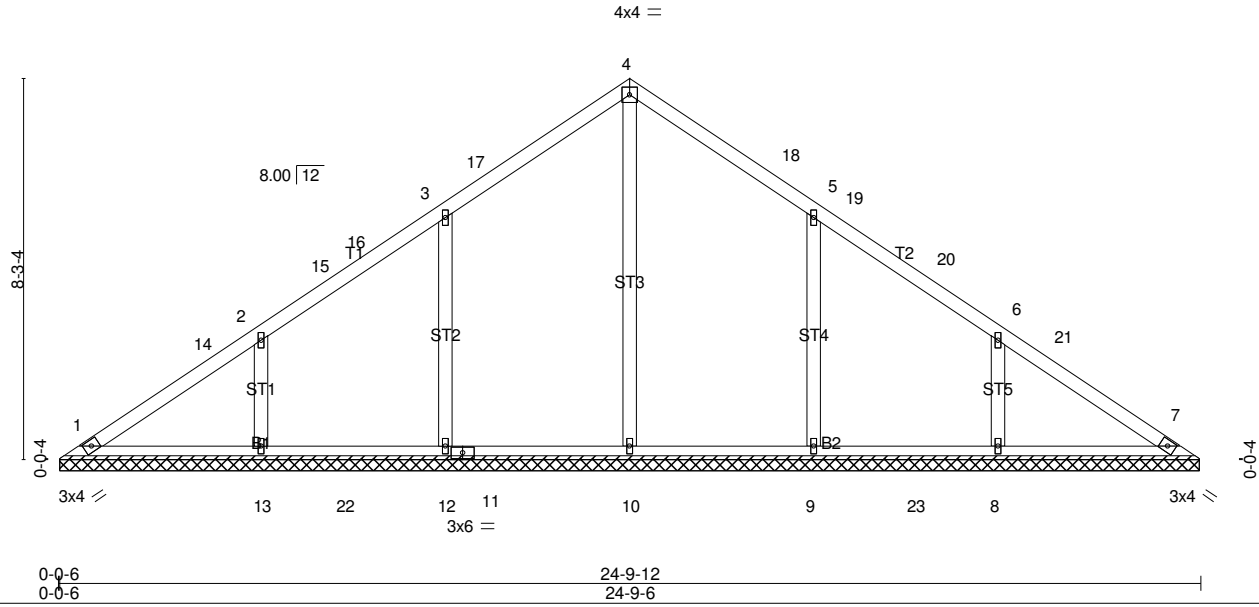
Job 690396	Truss 401	Truss Type Valley	Qty 1	Ply 1	G_MGMT_E137787_9/18/2017 12:20:18 PM Job Reference (optional)
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Boise Structural Solutions, Biddeford, ME 04005, Chipper Roberts

Run: 8.110 s Jun 13 2017 Print: 8.110 s Jun 13 2017 MiTek Industries, Inc. Tue Sep 19 15:35:40 2017 Page 1
ID:bsnaw5m?017CX11WeElz30ycSOQ-CnftcaLDniVS_RYRtaFqOtJhat3ga4hg6qVOX3yc1pn

0-5-8 12-4-14 24-4-4 24-9-12
0-5-8 11-11-6 11-11-6 0-5-8

Scale = 1:50.0



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 46.2 (Ground Snow=60.0)	2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IBC2009/TPI2007	TC 0.37 BC 0.13 WB 0.39 Matrix-P	in (loc) l/defl L/d Vert(LL) n/a - n/a 999 Vert(TL) n/a - n/a 999 Horz(TL) 0.01 7 n/a n/a	MT20	169/123
TCDL 10.0				Weight: 83 lb	FT = 0%
BCLL 0.0 *					
BCDL 10.0					

LUMBER-
TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
OTHERS 2x4 SPF-S No.2

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 24-9-0.
(lb) - Max Horz 1=-476(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) 7 except 1=-101(LC 6), 12=-252(LC 9), 13=-380(LC 8), 9=-252(LC 8), 8=-380(LC 9)
Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 10=522(LC 1), 12=867(LC 2), 13=594(LC 1), 9=867(LC 3), 8=594(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-398/268, 2-14=-377/283, 15-16=-195/255, 3-16=-192/258, 3-17=-279/300,
4-17=-74/321, 4-18=-74/321, 5-18=-279/300
WEBS 4-10=-278/13, 3-12=-637/366, 2-13=-489/434, 5-9=-637/366, 6-8=-489/434

- NOTES-** (10-11)
- 1) Wind: ASCE 7-05; 120mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) 0-5-12 to 3-5-12, Interior(1) 3-5-12 to 9-4-14, Exterior(2) 9-4-14 to 12-4-14, Interior(1) 15-4-14 to 21-3-15 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-05; Pg= 60.0 psf (ground snow); Pf=46.2 psf (flat roof snow); Category II; Exp C; Partially Exp.; Ct=1.1
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) All plates are 1.5x4 MT20 unless otherwise indicated.
 - 5) Gable requires continuous bottom chord bearing.
 - 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, with BCDL = 10.0psf.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7 except (jt=lb) 1=101, 12=252, 13=380, 9=252, 8=380.
 - 9) This truss is designed in accordance with the 2009 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 10) Dimensions are in feet-inches-sixteenths
 - 11) Drawing prepared exclusively for manufacturing by Boise Cascade.

LOAD CASE(S) Standard

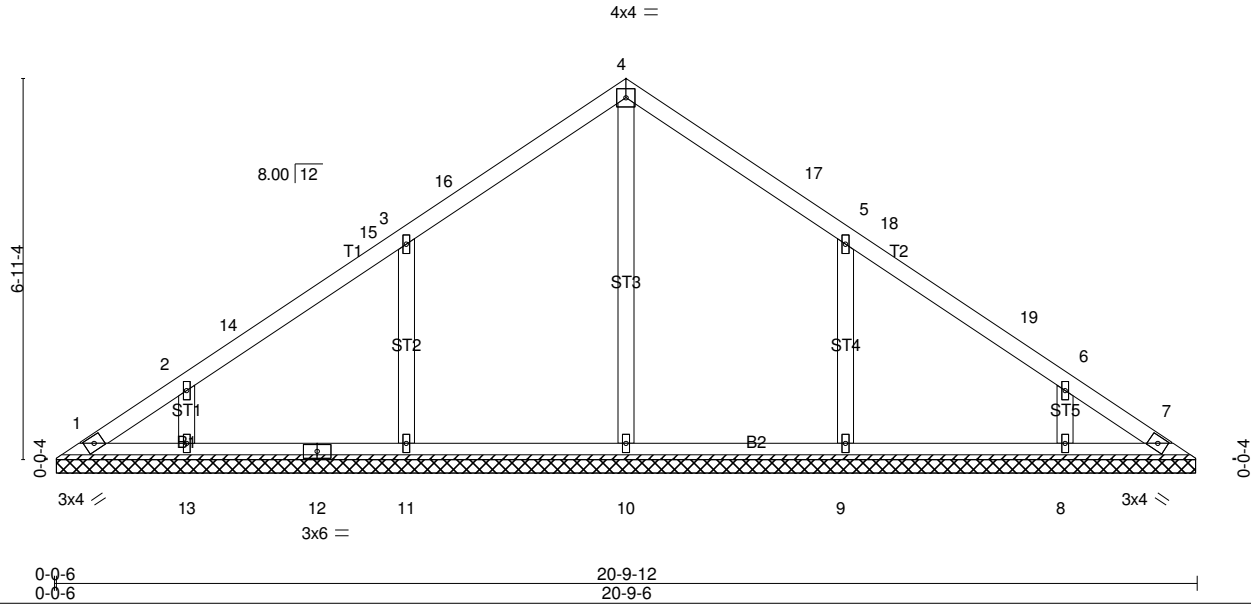
Job	Truss	Truss Type	Qty	Ply	
690396	402	Valley	1	1	G_MGMT_E137787_9/18/2017 12:20:18 PM Job Reference (optional)

Boise Structural Solutions, Biddeford, ME 04005, Chipper Roberts

Run: 8.110 s Jun 13 2017 Print: 8.110 s Jun 13 2017 MiTek Industries, Inc. Tue Sep 19 15:35:40 2017 Page 1
ID:bsnaw5m?017CX11WeElz30ycSOQ-CntfcaLDniVS_RYRtaFqOjJhqt3Ra6kg6qVOX3yc1pn

0-5-8 10-4-14 20-4-4 20-9-12
0-5-8 9-11-6 9-11-6 0-5-8

Scale = 1:42.0



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 46.2 (Ground Snow=60.0)	2-0-0	TC 0.35	in (loc) l/defl L/d	MT20	169/123
TCDL 10.0	Plate Grip DOL 1.15	BC 0.14	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.26	Vert(TL) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(TL) 0.01 7 n/a n/a		
	Code IBC2009/TPI2007			Weight: 66 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
OTHERS 2x4 SPF-S No.2

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 20-9-0.
(lb) - Max Horz 1=396(LC 7)
Max Uplift All uplift 100 lb or less at joint(s) 7 except 1=-113(LC 6), 11=-323(LC 8), 13=-309(LC 8), 9=-323(LC 9), 8=-310(LC 9)
Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 10=530(LC 1), 11=793(LC 2), 13=417(LC 1), 9=793(LC 3), 8=417(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-360/239, 3-16=-271/248, 4-16=-72/269, 4-17=-72/269, 5-17=-271/248
WEBS 4-10=-271/19, 3-11=-632/393, 2-13=-362/350, 5-9=-632/393, 6-8=-362/350

- NOTES-** (10-11)
- 1) Wind: ASCE 7-05; 120mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) 0-5-12 to 3-5-12, Interior(1) 3-5-12 to 7-4-14, Exterior(2) 7-4-14 to 10-4-14, Interior(1) 13-4-14 to 17-3-15 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-05; Pg= 60.0 psf (ground snow); Pf=46.2 psf (flat roof snow); Category II; Exp C; Partially Exp.; Ct=1.1
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) All plates are 1.5x4 MT20 unless otherwise indicated.
 - 5) Gable requires continuous bottom chord bearing.
 - 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, with BCDL = 10.0psf.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7 except (jt=lb) 1=113, 11=323, 13=309, 9=323, 8=310.
 - 9) This truss is designed in accordance with the 2009 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 10) Dimensions are in feet-inches-sixteenths
 - 11) Drawing prepared exclusively for manufacturing by Boise Cascade.

LOAD CASE(S) Standard

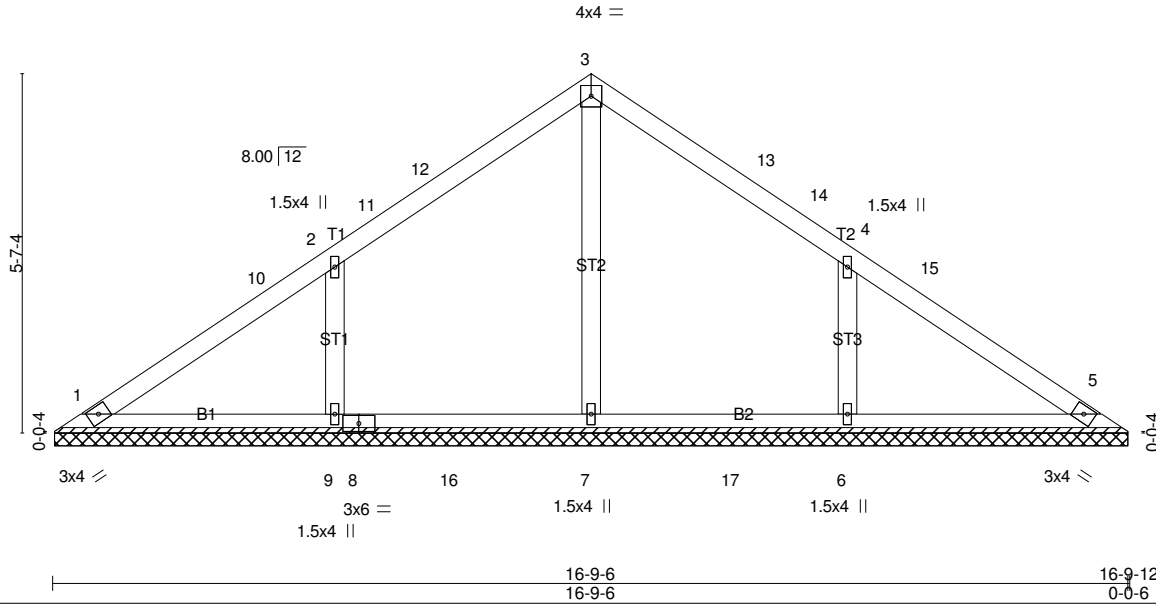
Job 690396	Truss 403	Truss Type Valley	Qty 1	Ply 1	G_MGMT_E137787_9/18/2017 12:20:18 PM Job Reference (optional)
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Boise Structural Solutions, Biddeford, ME 04005, Chipper Roberts

Run: 8.110 s Jun 13 2017 Print: 8.110 s Jun 13 2017 MiTek Industries, Inc. Tue Sep 19 15:35:41 2017 Page 1
ID:bsnaw5m?017CX11WeElz30ycSOQ-gzDFqWMrY?eJcb7dRHm3x5ssTGPdJbZpLUey3Vyc1prr

0-5-8	8-4-14	16-4-4	16-9-12
0-5-8	7-11-6	7-11-6	0-5-8

Scale = 1:36.0



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 46.2 (Ground Snow=60.0)	2-0-0	TC 0.36	in (loc) l/defl L/d	MT20	169/123
TCDL 10.0	Plate Grip DOL 1.15	BC 0.11	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.16	Vert(TL) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(TL) 0.00 5 n/a n/a		
	Code IBC2009/TPI2007			Weight: 50 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
OTHERS 2x4 SPF-S No.2

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 16-9-0.
(lb) - Max Horz 1=-316(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 9=-419(LC 8), 6=-419(LC 9)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=483(LC 1), 9=723(LC 2), 6=723(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-7=-262/24, 2-9=-616/473, 4-6=-616/473

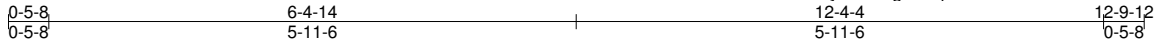
- NOTES-** (9-10)
- 1) Wind: ASCE 7-05; 120mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) 0-5-12 to 3-5-12, Interior(1) 3-5-12 to 5-4-14, Exterior(2) 5-4-14 to 8-4-14, Interior(1) 11-4-14 to 13-3-15 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-05; Pg= 60.0 psf (ground snow); Pf=46.2 psf (flat roof snow); Category II; Exp C; Partially Exp.; Ct=1.1
 - 3) Unbalanced snow loads have been considered for this design.
 - 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, with BCDL = 10.0psf.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 9=419, 6=419.
 - 8) This truss is designed in accordance with the 2009 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 9) Dimensions are in feet-inches-sixteenths
 - 10) Drawing prepared exclusively for manufacturing by Boise Cascade.

LOAD CASE(S) Standard

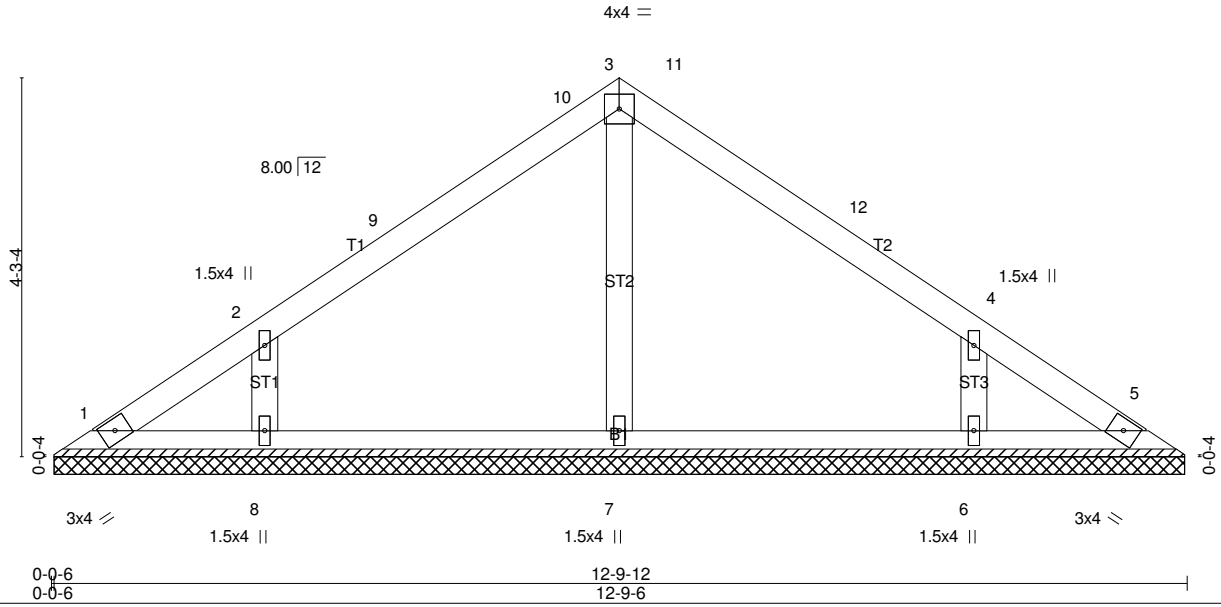
Job	Truss	Truss Type	Qty	Ply	G_MGMT_E137787_9/18/2017 12:20:18 PM
690396	404	Valley	1	1	Job Reference (optional)

Boise Structural Solutions, Biddeford, ME 04005, Chipper Roberts

Run: 8.110 s Jun 13 2017 Print: 8.110 s Jun 13 2017 MiTek Industries, Inc. Tue Sep 19 15:35:41 2017 Page 1
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Scale = 1:26.0



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 46.2 (Ground Snow=60.0)	2-0-0	TC 0.30	in (loc) l/defl L/d	MT20	169/123
TCDL 10.0	Plate Grip DOL 1.15	BC 0.08	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.10	Vert(TL) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(TL) 0.00 5 n/a n/a		
	Code IBC2009/TPI2007			Weight: 36 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
OTHERS 2x4 SPF-S No.2

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 12-9-0.
(lb) - Max Horz 1=-236(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-380(LC 8), 6=-380(LC 9)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=367(LC 1), 8=566(LC 2), 6=566(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-7=-282/38, 2-8=-499/420, 4-6=-499/420

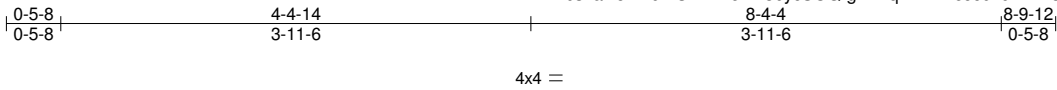
- NOTES-** (9-10)
- 1) Wind: ASCE 7-05; 120mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-05; Pg= 60.0 psf (ground snow); Pf=46.2 psf (flat roof snow); Category II; Exp C; Partially Exp.; Ct=1.1
 - 3) Unbalanced snow loads have been considered for this design.
 - 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) 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=380, 6=380.
 - 8) This truss is designed in accordance with the 2009 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 9) Dimensions are in feet-inches-sixteenths
 - 10) Drawing prepared exclusively for manufacturing by Boise Cascade.

LOAD CASE(S) Standard

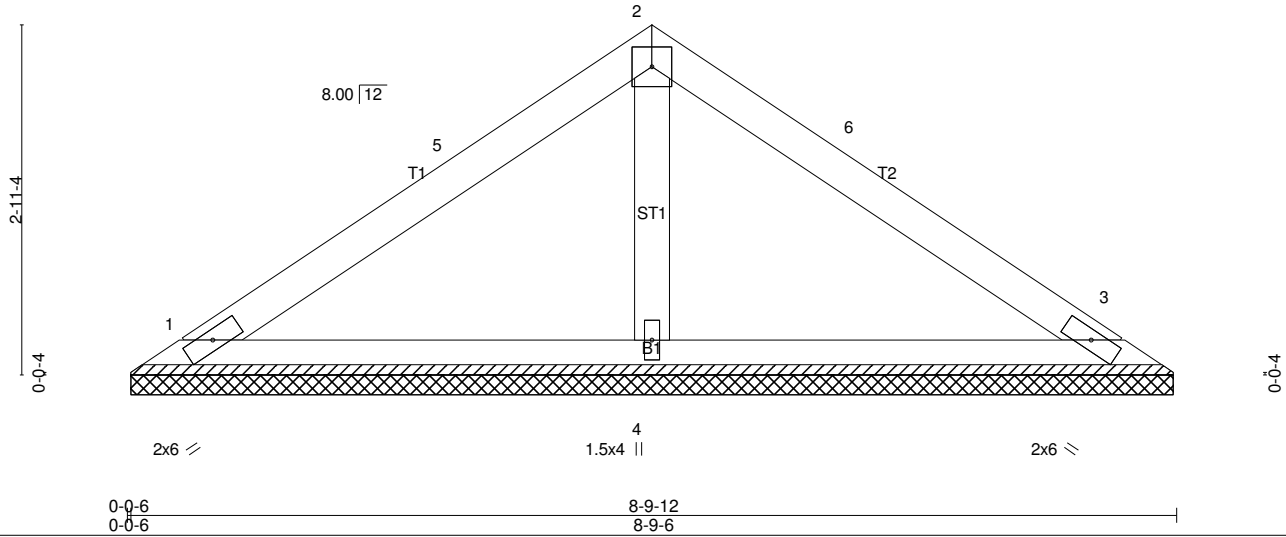
Job 690396	Truss 405	Truss Type Valley	Qty 1	Ply 1	G_MGMT_E137787_9/18/2017 12:20:18 PM Job Reference (optional)
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Boise Structural Solutions, Biddeford, ME 04005, Chipper Roberts

Run: 8.110 s Jun 13 2017 Print: 8.110 s Jun 13 2017 MiTek Industries, Inc. Tue Sep 19 15:35:41 2017 Page 1
ID:bsnaw5m?017CX11WeElz30ycSOQ-gzDFqwMrY?eJcb7dRRhm3x5sr1GPHJc3pLUEy3Vyc1pm



Scale = 1:19.3



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 46.2 (Ground Snow=60.0)	2-0-0	TC 0.39	in (loc) l/defl L/d	MT20	169/123
TCDL 10.0	Plate Grip DOL 1.15	BC 0.10	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.07	Vert(TL) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(TL) 0.00 3 n/a n/a		
	Code IBC2009/TPI2007			Weight: 23 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
OTHERS 2x4 SPF-S No.2

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 1=300/8-9-0 (min. 0-1-10), 3=300/8-9-0 (min. 0-1-10), 4=439/8-9-0 (min. 0-1-10)
Max Horz 1=-157(LC 6)
Max Uplift 1=-152(LC 8), 3=-160(LC 9), 4=-105(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-4=-341/173

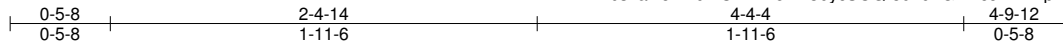
- NOTES-** (9-10)
- 1) Wind: ASCE 7-05; 120mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-05; Pg= 60.0 psf (ground snow); Pf=46.2 psf (flat roof snow); Category II; Exp C; Partially Exp.; Ct=1.1
 - 3) Unbalanced snow loads have been considered for this design.
 - 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=152, 3=160, 4=105.
 - 8) This truss is designed in accordance with the 2009 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 9) Dimensions are in feet-inches-sixteenths
 - 10) Drawing prepared exclusively for manufacturing by Boise Cascade.

LOAD CASE(S) Standard

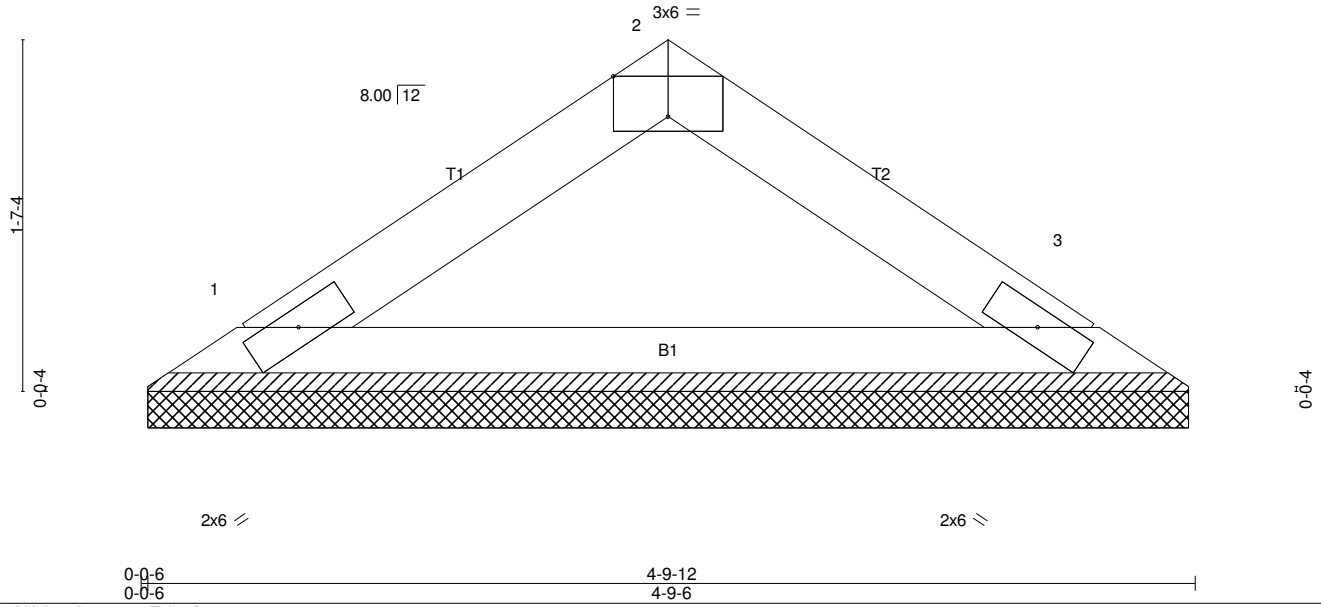
Job 690396	Truss 406	Truss Type Valley	Qty 1	Ply 1	G_MGMT_E137787_9/18/2017 12:20:18 PM Job Reference (optional)
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Boise Structural Solutions, Biddeford, ME 04005, Chipper Roberts

Run: 8.110 s Jun 13 2017 Print: 8.110 s Jun 13 2017 MiTek Industries, Inc. Tue Sep 19 15:35:42 2017 Page 1
ID:bsnaw5m?0i7CX1iWeIz30ycSOQ-89nd1GMTJJmAElip??HITIO5agIF24LzZ8_Vcyyc1bl



Scale = 1:10.5



LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES		GRIP	
TCLL	46.2	Plate Grip DOL	2-0-0	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	197/144	
(Ground Snow=60.0)		Lumber DOL	1.15	BC	0.12	Vert(TL)	n/a	-	n/a	999			
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(TL)	0.00	3	n/a	n/a			
BCLL	0.0 *	Code IBC2009/TPI2007		Matrix-P									
BCDL	10.0												
											Weight: 11 lb	FT = 0%	

LUMBER-
TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-9-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 1=255/4-9-0 (min. 0-1-8), 3=255/4-9-0 (min. 0-1-8)
Max Horz 1=-77(LC 6)
Max Uplift 1=-107(LC 8), 3=-107(LC 8)

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

NOTES- (9-10)

- 1) Wind: ASCE 7-05; 120mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-05; Pg= 60.0 psf (ground snow); Pf=46.2 psf (flat roof snow); Category II; Exp C; Partially Exp.; Ct=1.1
- 3) Unbalanced snow loads have been considered for this design.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=107, 3=107.
- 8) This truss is designed in accordance with the 2009 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 9) Dimensions are in feet-inches-sixteenths
- 10) Drawing prepared exclusively for manufacturing by Boise Cascade.

LOAD CASE(S) Standard

Job 690396	Truss 407	Truss Type VALLEY	Qty 1	Ply 1	G_PMT_E137787_9/18/2017 12:20:18 PM Job Reference (optional)
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Boise Structural Solutions, Biddeford, ME 04005, Chipper Roberts

Run: 8.110 s Jun 13 2017 Print: 8.110 s Jun 13 2017 MiTek Industries, Inc. Tue Sep 19 15:35:42 2017 Page 1
ID:bsnaw5m?017CX11WeElz30ycSOQ-89nd1GMTJmAElip??HITIO?1gki2tgzZ8_Vcyyc1pl

0:5:8 16-4-14 26-2-1 26-7-9
0:5:8 15-11-6 9-9-3 0:5:8

Scale = 1:65.2

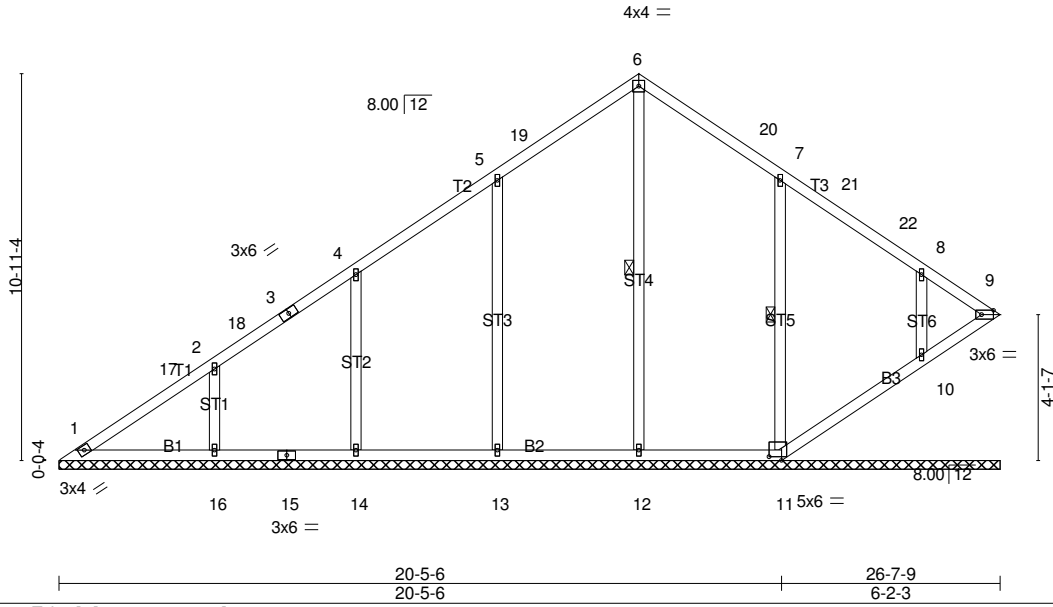


Plate Offsets (X,Y)-- [9:0-4-1,Edge], [11:0-4-4,0-1-4]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 46.2 (Ground Snow=60.0)	2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IBC2009/TPI2007	TC 0.50 BC 0.16 WB 0.88 Matrix-P	in (loc) l/defl L/d Vert(LL) n/a - n/a 999 Vert(TL) n/a - n/a 999 Horz(TL) 0.01 9 n/a n/a	MT20	169/123
TCDL 10.0 BCLL 0.0 * BCDL 10.0				Weight: 97 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 SPF-S No.2 *Except*
T3: 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF-S No.2 *Except*
B2: 2x4 SPF 1650F 1.5E
OTHERS 2x4 SPF-S No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 9-10.
WEBS 1 Row at midpt 6-12, 7-11

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 26-7-9.
(lb) - Max Horz 1=609(LC 7)
Max Uplift All uplift 100 lb or less at joint(s) 1 except 9=160(LC 7), 13=262(LC 8), 14=208(LC 9), 16=391(LC 8), 11=454(LC 9), 10=304(LC 9)
Max Grav All reactions 250 lb or less at joint(s) 1 except 9=262(LC 6), 12=548(LC 1), 13=854(LC 2), 14=649(LC 1), 16=610(LC 2), 11=835(LC 3), 10=447(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-17=-518/240, 2-17=-497/256, 2-18=-332/204, 3-18=-318/216, 3-4=-318/228,
5-19=-268/304, 6-19=-71/326, 6-20=-71/326, 7-20=-297/305
BOT CHORD 10-11=-165/279, 9-10=-168/263
WEBS 6-12=-275/0, 5-13=-620/385, 4-14=-421/281, 2-16=-511/444, 7-11=-743/392,
8-10=-365/354

- NOTES-** (11-12)
- 1) Wind: ASCE 7-05; 120mph; TC DL=6.0psf; BC DL=6.0psf; h=35ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) 0-5-12 to 3-5-12, Interior(1) 3-5-12 to 13-4-14, Exterior(2) 13-4-14 to 16-4-14, Interior(1) 19-4-14 to 23-4-7 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-05; Pg= 60.0 psf (ground snow); Pf=46.2 psf (flat roof snow); Category II; Exp C; Partially Exp.; Ct=1.1
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) All plates are 1.5x4 MT20 unless otherwise indicated.
 - 5) Gable requires continuous bottom chord bearing.
 - 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, with BCDL = 10.0psf.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 9=160, 13=262, 14=208, 16=391, 11=454, 10=304.
 - 9) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 9, 10.
 - 10) This truss is designed in accordance with the 2009 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 11) Dimensions are in feet-inches-sixteenths
 - 12) Drawing prepared exclusively for manufacturing by Boise Cascade.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
690396	408	VALLEY	1	1	G_MGMT_E137787_9/18/2017 12:20:18 PM Job Reference (optional)

Boise Structural Solutions, Biddeford, ME 04005, Chipper Roberts

Run: 8.110 s Jun 13 2017 Print: 8.110 s Jun 13 2017 MiTek Industries, Inc. Tue Sep 19 15:35:43 2017 Page 1
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0'-5-8 14'-4-14 24'-2-1 24'-7-9
0'-5-8 13'-11-6 9'-9-3 0'-5-8

Scale = 1:57.3

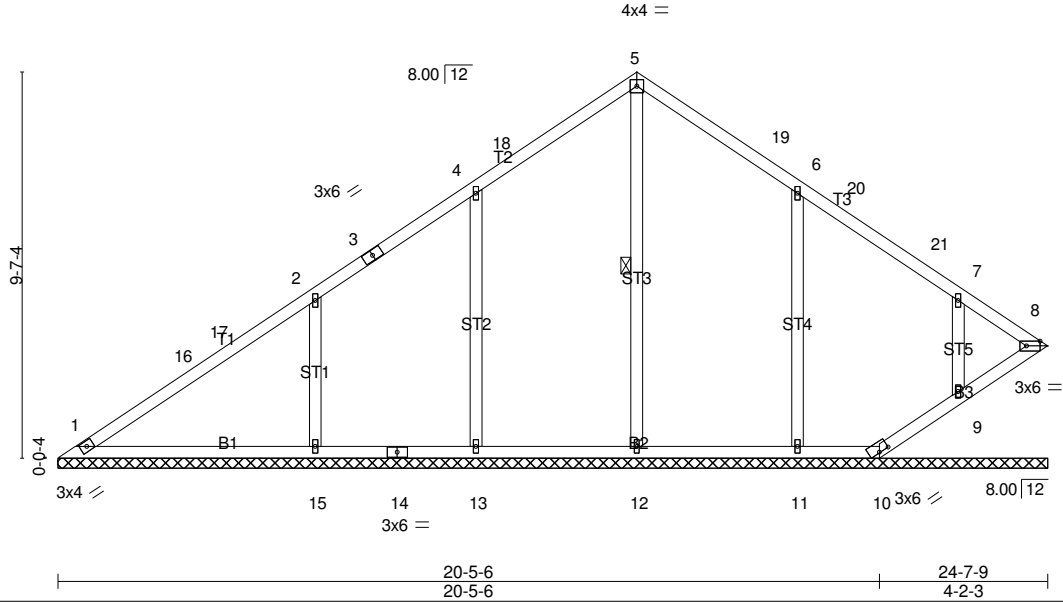


Plate Offsets (X,Y)-- [8:0-4-1,Edge], [10:0-3-0,0-0-2]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 46.2 (Ground Snow=60.0)	2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	TC 0.90 BC 0.28 WB 0.69 Matrix-P	in (loc) l/defl L/d Vert(LL) n/a - n/a 999 Vert(TL) n/a - n/a 999 Horz(TL) 0.01 8 n/a n/a	MT20	169/123
TCDL 10.0 BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code IBC2009/TPI2007			Weight: 82 lb	FT = 0%

LUMBER-

TOP CHORD 2x4 SPF-S No.2 *Except*
T3: 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF-S No.2
OTHERS 2x4 SPF-S No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 5-12

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 24-7-9.

(lb) - Max Horz 1=538(LC 7)
Max Uplift All uplift 100 lb or less at joint(s) 1 except 8=-130(LC 7), 10=-125(LC 6), 13=-219(LC 9), 15=-470(LC 8),
11=-344(LC 9), 9=-321(LC 9)
Max Grav All reactions 250 lb or less at joint(s) 10 except 8=251(LC 6), 1=355(LC 1), 12=542(LC 1), 13=771(LC 2),
15=869(LC 1), 11=863(LC 3), 9=414(LC 1)

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

TOP CHORD 1-16=-420/238, 16-17=-404/259, 2-17=-385/261, 4-18=-259/293, 5-18=-68/310,
5-19=-68/317, 6-19=-284/295
BOT CHORD 9-10=-140/258, 8-9=-143/251
WEBS 5-12=-291/0, 4-13=-535/317, 2-15=-673/543, 6-11=-704/392, 7-9=-364/353

NOTES- (11-12)

- 1) Wind: ASCE 7-05; 120mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) 0-5-12 to 3-5-12, Interior(1) 3-5-12 to 11-4-14, Exterior(2) 11-4-14 to 14-4-14, Interior(1) 17-4-14 to 21-4-7 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCELL: ASCE 7-05; Pg= 60.0 psf (ground snow); Pf=46.2 psf (flat roof snow); Category II; Exp C; Partially Exp.; Ct=1.1
- 3) Unbalanced snow loads have been considered for this design.
- 4) All plates are 1.5x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 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, with BCDL = 10.0psf.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 8=130, 10=125, 13=219, 15=470, 11=344, 9=321.
- 9) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 8, 9.
- 10) This truss is designed in accordance with the 2009 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 11) Dimensions are in feet-inches-sixteenths
- 12) Drawing prepared exclusively for manufacturing by Boise Cascade.

LOAD CASE(S) Standard