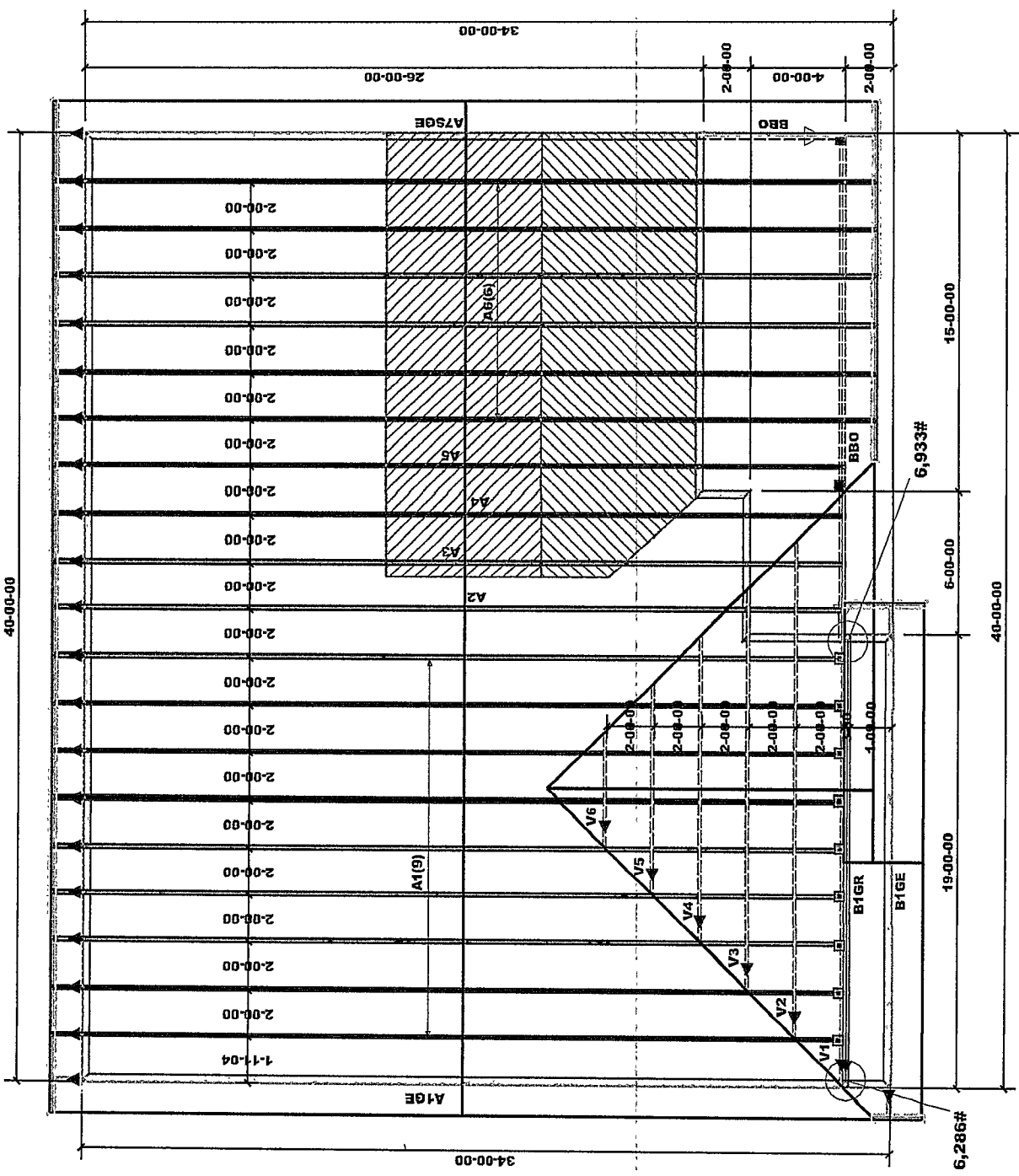


Warning: Do not alter any dimensions or quantities on this drawing without the written approval of the Designer. The Designer is not responsible for any errors or omissions in this drawing. The Designer is not responsible for any damage to property or injury to persons resulting from the use of this drawing. The Designer is not responsible for any construction methods or materials used in the construction of the structure. The Designer is not responsible for any local, state, or federal codes or regulations that may apply to the structure. The Designer is not responsible for any other drawings or specifications that may be referenced in this drawing. The Designer is not responsible for any other drawings or specifications that may be referenced in this drawing.

LOAD CHART FOR JACK STUDS

SPAN	LOAD (PSF)	MAXIMUM SPACING (FT)
10'-0"	100	16
12'-0"	100	14
14'-0"	100	12
16'-0"	100	10
18'-0"	100	8
20'-0"	100	6
22'-0"	100	4
24'-0"	100	2

JOB #	70524-2743
QUOTE #	
SEAL DATE	
PLAN	Roof
JOB NAME	The Maple
BUILDER	Thomas Prop. of Harnett Co.
CITY / CO.	Site Address - City / Harnett
ADDRESS	Site Address
MODEL	Roof
DATE REV.	05/09/24
DRAWN BY	Sales Area
SALES REP.	Bob Lewis



Roof Area = 1776.83 sq. ft.
 Ridge Line = 59.71 ft.
 Hip Line = 0 ft.
 Horiz. OH = 63 ft.
 Raked OH = 109.99 ft.
 Decking = 61 sheets

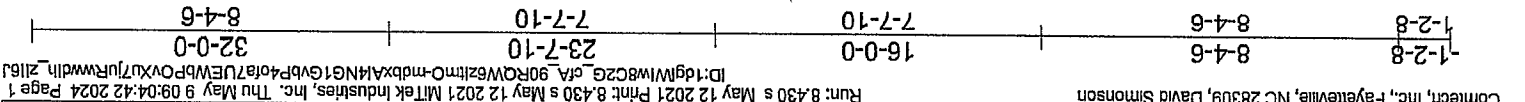
Hatch Legend

	Vaulted Ceiling
--	-----------------

Connector Information		Nail Information	
Sym	Product	Manuf	Qty
	HUS26	USP	9
		Supported Member	NA
		Header	16d3-1/2" 16d3-1/2"
		Truss	Truss

▲ Indicates Left End of Truss
 (Reference Engineered Truss Drawing)
 Do NOT Erect Truss Backwards

Truss Placement Plan
 SCALE: NTS



Scale = 1/32" = 1"

LOADING (psf)	SPACING	CSL	DEFL.	in (loc)	l/def	L/D	PLATES	GRIP	Weight: 211 lb FT = 25%
TCLL 20.0	2.0-0	0.24	0.17	9.12	> 999	360	MT20	244/190	
TCDL 10.0	Lumber DOL 1.15	BC 0.49	0.23	9.12	> 999	240			
BCLL 0.0	Rep Stress Incr YES	WB 0.28	0.04	8	n/a	n/a			
BCDL 10.0	Code IRC2015/TP12014	Matrx-AS	0.05	9.18	> 999	240			

LUMBER-
 TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2

REACTIONS. (lb/size) 2=1348/0-3-8 (min. 0-1-12), 8=1279/Mechanical
 Max Horiz 2=234(LC 9)
 Max Uplift 2=89(LC 12), 8=73(LC 13)
 Max Grav 2=1484(LC 19), 8=1420(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 5-21=-2240/381, 3-19=-2186/411, 3-4=-2084/423, 4-20=-2000/439, 5-20=-1977/466,
 2-19=-1981/479, 6-21=-2005/452, 6-7=-2089/437, 7-22=-2172/424, 8-22=-2245/398,
 10-11=-421/318, 10-26=-421/318, 9-27=-242/1870, 27-28=-242/1870,
 8-28=-242/1870
 WEBS 5-9=-144/1008, 7-9=-532/279, 5-12=-139/1002, 3-12=-533/278

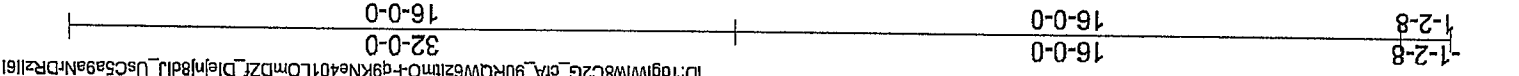
NOTES-
 1) Unbalanced roof live loads have been considered for this design.
 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDDL=6.0psf; BCDDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-1-5 to 3-3-8, Interior(1) 3-3-8 to 16-0-0 to 20-4-13, Interior(1) 20-4-13 to 32-0-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 4) * This truss has been designed for a 10.0 psf 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 BC DL = 10.0psf.
 5) Refer to girder(s) for truss connections.
 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 89 lb uplift at joint 2 and 73 lb uplift at joint 8.
 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.1.1 and R802.10.2 and referenced standard ANS/ITP 1.
 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

BRACING-
 TOP CHORD Structural wood sheathing directly applied.
 BOT CHORD Rigid ceiling directly applied.
 MITek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer installation guide.

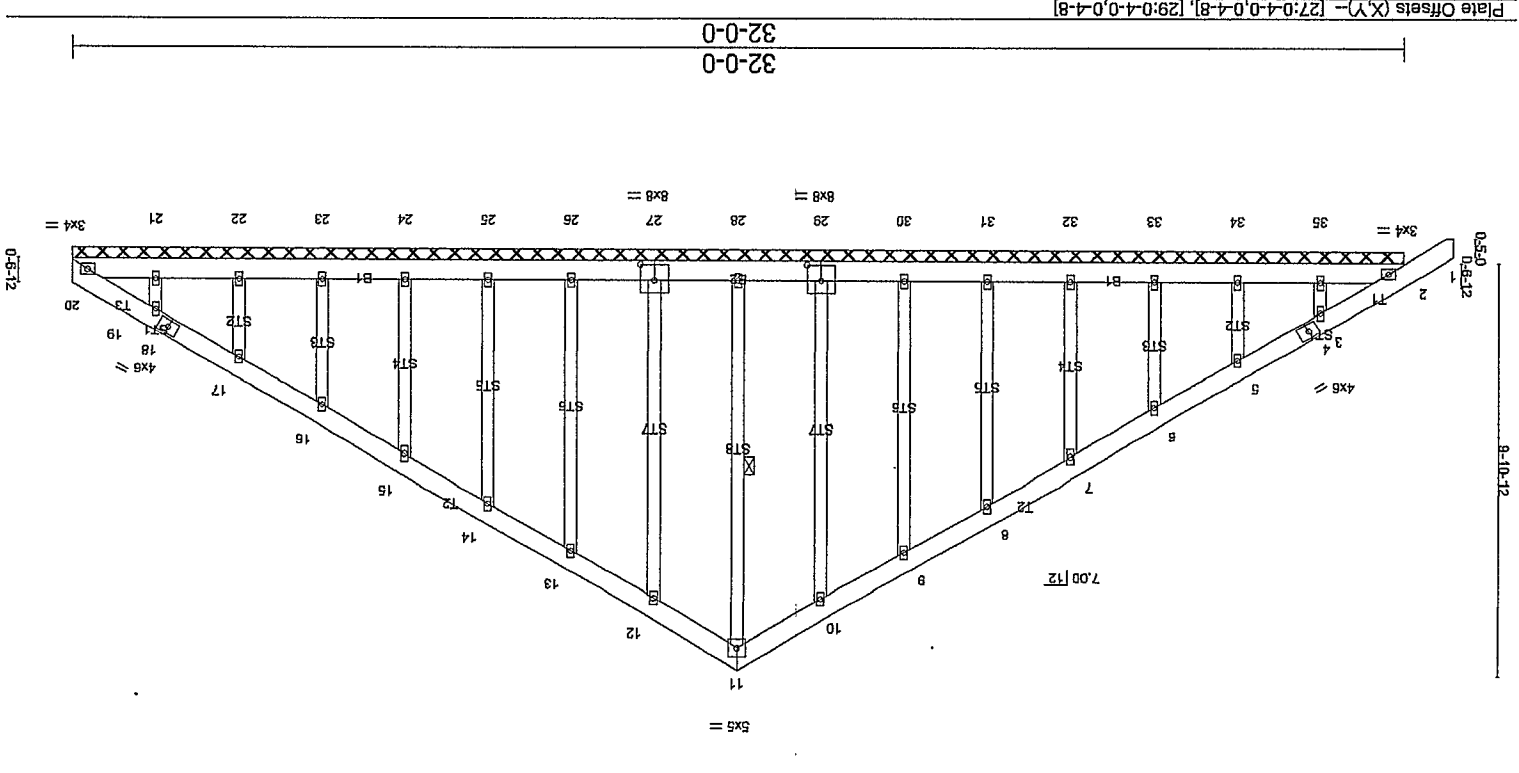
LOAD CASE(S) Standard

Job	J0524-2743	Truss Type	A1GE	Truss	COMMON SUPPORTED GAB	Job Reference (optional)	The Maple
Client		Truss Type				Job Reference (optional)	

Comtech, Inc., Fayetteville, NC 28309, David Simonson
 Run: 8:430 s May 12 2021 Pmt: 8:430 s May 12 2021 Mittek Industries, Inc. Thu May 9 09:04:43 2024 Page 1



Scale = 1:53.8



LOADING (psf)	SPACING	CSL	DEFL.	DEFL. in (loc)	L/d	PLATES	GRIP
TCLL 20.0	2.0-0	TC 0.04	Vert(L) -0.00	1	n/r	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.02	Vert(CT) -0.00	1	n/r		
BCLL 0.0	Rep Stress Incr YES	WB 0.16	Horz(CT) 0.01	20	n/a		
BCLD 10.0	Code IRC2015/TP12014	Math-S					

LUMBER
 TOP CHORD: 2x6 SP No.1
 BOT CHORD: 2x6 SP No.1
 OTHERS 2x4 SP No.2

REACTIONS
 All bearings 32-0-0.
 (b) - Max Horiz 2=293(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 29, 30, 31, 32, 33, 34, 35, 27, 26, 25, 24, 23, 22, 21, 20

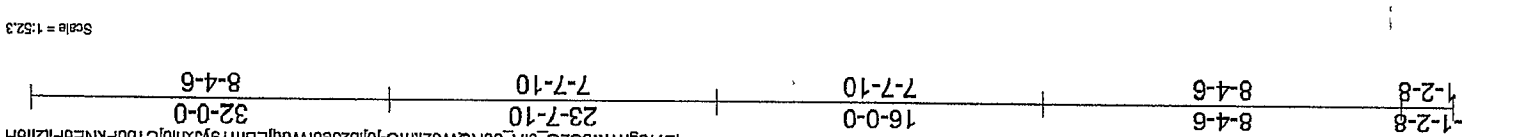
FORCES
 (b) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD: 2-3=-277/215, 10-1=-230/257, 11-12=-230/257

NOTES
 (1) Unbalanced roof live loads have been considered for this design.
 (2) Wind: ASCE 7-10; Vite=130mph Vasd=103mph; TC DL=6.0psf; BCLD=6.0psf; h=15ft; Cal. II; Exp C; Enclosed; MWFRS (envelope)
 (3) gable end zone and C-C Corner(3) -1-15 to 3-3-8, Exterior(2) 3-3-8 to 16-0-0, Corner(3) 16-0-0 to 20-4-13, Exterior(2) 20-4-13 to 32-0-0
 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate gnp DOL=1.60
 (3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TP1 1.
 (4) All plates are 2x4 MT20 unless otherwise indicated.
 (5) Gable requires continuous bottom chord bearing.
 (6) Gable studs spaced at 2-0-0 oc.
 (7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 (8) This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 (9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 29, 30, 31, 32, 33, 34, 35, 27, 26, 25, 24, 23, 22, 21, 20.
 (10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.
 (11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TP1 1.

BRACING
 TOP CHORD
 BOT CHORD
 WEBS

Structural wood sheathing directly applied or 6-0-0 oc purlins.
 Rigid ceiling directly applied or 10-0-0 oc bracing.
 1 Row at midpt 11-28
 Mittek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

LOAD CASE(S) Standard



LOADING (psf)	SPACING-	CSL	DEFL.	in (occ)	L/d	MT20	GRIP	Weight: 211 lb FT = 25%
10.0	2-0-0	0.23	-0.17	10-13	>999	240	244/190	
10.0	Lumber DOL	0.51	-0.26	10-13	>999	240		
0.0	Rep Stress Incr	0.28	0.04	8	n/a	240		
10.0	Code IRC2015/TP2014	Mathx-AS	Wind(LL)	0.05	13-16	>999		

LUMBER-	BRACING-	REACTIONS	FORCES	TOP CHORD	BOT CHORD	WEBS
TOP CHORD 2x6 SP No.1	TOP CHORD	Max Horiz 2=234(LC 9)	2-20=-2183/378, 3-20=-2128/408, 3-4=-2027/421, 4-2=-1943/436, 5-21=-1921/463,	5-10=-136/822, 7-10=-472/284, 5-13=-143/1024, 3-13=-528/278	9-29=-235/1685, 8-9=-235/1685	5-10=-136/822, 7-10=-472/284, 5-13=-143/1024, 3-13=-528/278
BOT CHORD 2x6 SP No.1	TOP CHORD	Max Uplift=-93(LC 12), 8=-80(LC 13), 9=4(LC 8)	2-22=-1800/461, 6-22=-1817/435, 6-7=-1902/419, 7-23=-1984/406, 8-23=-2078/380	11-2=-35/1260, 11-27=-35/1260, 10-27=-35/1260, 10-28=-235/1685, 28-29=-235/1685,	11-2=-35/1260, 11-27=-35/1260, 10-27=-35/1260, 10-28=-235/1685, 28-29=-235/1685,	9-29=-235/1685, 8-9=-235/1685
WEBS	TOP CHORD	Max Grav 2=1452(LC 19), 8=1139(LC 20), 9=289(LC 3)	5-22=-236/1982, 24-25=-236/1982, 13-25=-236/1982, 13-26=-35/1260, 12-26=-35/1260,	5-10=-136/822, 7-10=-472/284, 5-13=-143/1024, 3-13=-528/278	9-29=-235/1685, 8-9=-235/1685	5-10=-136/822, 7-10=-472/284, 5-13=-143/1024, 3-13=-528/278

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

Rigid ceiling sheathing directly applied.

Structural wood sheathing directly applied.

TOP CHORD

BOT CHORD

BRACING-

TOP CHORD

BOT CHORD

WEBS

2x4 SP No.2

2x4 SP No.2

REACTIONS: (lb/size) 2=1314/0-3-8 (min. 0-1-11), 8=1049/0-3-8 (min. 0-1-8), 9=264/0-3-8 (min. 0-1-8)

Max Horiz 2=234(LC 9)

Max Uplift=-93(LC 12), 8=-80(LC 13), 9=4(LC 8)

Max Grav 2=1452(LC 19), 8=1139(LC 20), 9=289(LC 3)

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

TOP CHORD 2-20=-2183/378, 3-20=-2128/408, 3-4=-2027/421, 4-2=-1943/436, 5-21=-1921/463,

5-22=-236/1982, 24-25=-236/1982, 13-25=-236/1982, 13-26=-35/1260, 12-26=-35/1260,

6-7=-1902/419, 7-23=-1984/406, 8-23=-2078/380

6-22=-1817/435, 6-7=-1902/419, 7-23=-1984/406, 8-23=-2078/380

5-22=-1800/461, 6-22=-1817/435, 6-7=-1902/419, 7-23=-1984/406, 8-23=-2078/380

5-10=-136/822, 7-10=-472/284, 5-13=-143/1024, 3-13=-528/278

9-29=-235/1685, 8-9=-235/1685

NOTES-

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

(2) Wind: ASCE 7-10: V=130mph Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-1-5 to 3-3-8, Interior(1) 3-3-8 to 16-0-0, Exterior(1) 16-0-0 to 20-4-13, Interior(1) 20-4-13 to 32-0-0 zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

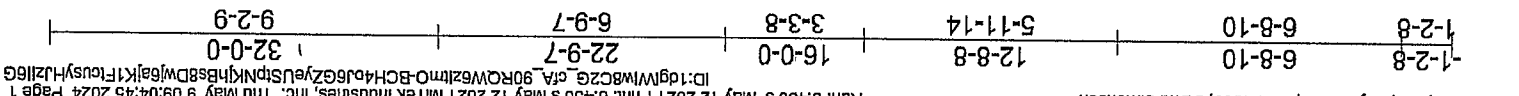
(4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

(5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8, 9.

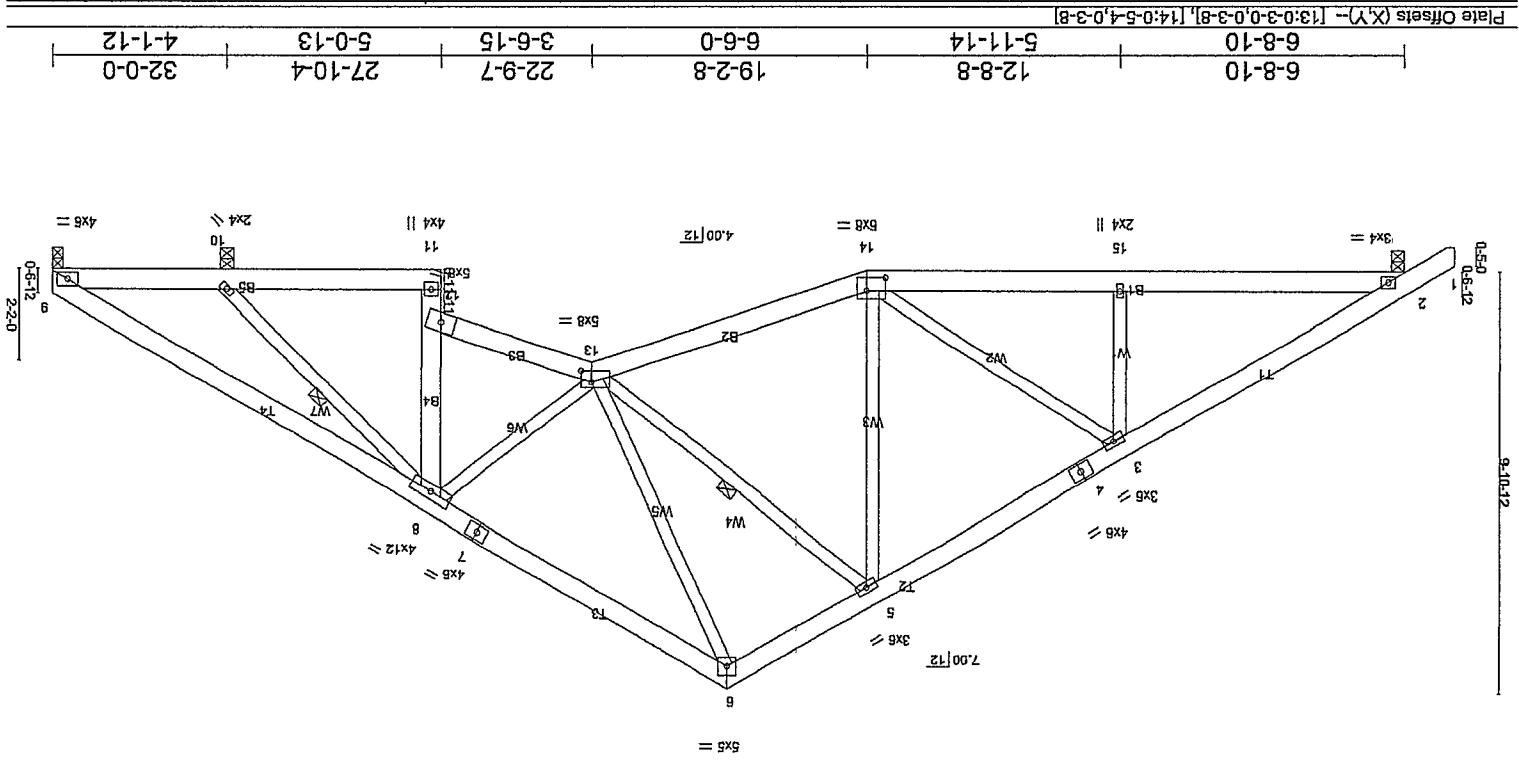
(6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R502.10.2 and referenced standard ANSI/TPI 1.

(7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



Scale = 1/53.0



LOADING (psf)	SPACING	CSL	DEFL.	in (loc)	l/def	L/D	PLATES	GRIP	Weight: 244 lb FT = 25%
TCLL 20.0	Plate Gthp DOL 1.15	TC 0.24	Vert(LL) -0.05	12-13	>999	360	MT20	244/190	
TCDL 10.0	Lumber DOL 1.15	BC 0.42	Vert(CT) -0.10	13-14	>999	240			
BCLL 0.0 *	Rep Stress Incr YES	WB 0.50	Horz(CT) 0.07	10	n/a				
BCDL 10.0	Code IRC2015/TP2014	Matrix-AS	Wind(LL) 0.03	14	>999	240			

LUMBER - TOP CHORD 2x6 SP No.1, BOT CHORD 2x6 SP No.1, WEBS 2x4 SP No.2
BRACING - TOP CHORD Structural wood sheathing directly applied, BOT CHORD Rigid ceiling directly applied, WEBS 1 Row at midpt 5-13, 8-10
 Mittek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer installation guide.

REACTIONS (lb/size) 2=156/0-3-8 (min. 0-1-8), 9=-88/0-3-0 (min. 0-1-8), 10=1559/0-3-8 (min. 0-1-13)
 Max Horz 2=234(LC 9)
 Max Uplift 2=-85(LC 12), 9=-148(LC 19), 10=46(LC 13)
 Max Grav 2=156(LC 1), 9=15(LC 12), 10=1559(LC 1)

FORCES (lb) - Max. Comp/Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-22=-1722/320, 3-22=-1663/341, 3-4=-1258/297, 4-23=-1210/314, 5-23=-1194/329, 5-6=-945/291, 6-24=-1349/347, 7-24=-1395/312, 7-8=-1428/309, 8-25=-38/593, 9-25=-60/454
 BOT CHORD 2-15=-192/1482, 14-15=-192/1482, 13-14=-64/1097, 12-13=-102/979, 8-12=-303/108, 10-11=-81/805, 9-10=-444/135, 3-15=0/261, 3-14=-604/179, 5-13=-421/1175, 5-13=-186/948, 8-13=-19/371, 8-10=-1756/302

NOTES
 1) Unbalanced roof live loads have been considered for this design.
 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Extension(2) -1-1-5 to 3-3-8, Interior(1) 3-3-8 to 16-0-0, Extension(2) 16-0-0 to 20-4-13, Interior(1) 20-4-13 to 32-0-0 zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate gthp DOL=1.60
 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 4) This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 5) Provide mechanical connection (by others) or truss to bearing plate capable of withstanding 100 lb uplift at joints(2, 10 except (it=lb) 9=148.
 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.1.1 and R802.10.2 and referenced standard ANSIT/P1.
 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
LOAD CASE(S) Standard

1-2-8	6-8-10	12-8-8	5-11-14	3-3-8	16-0-0	23-7-10	7-7-10	4-4-5	7-0-1
1-2-8	6-8-10	12-8-8	5-11-14	3-3-8	16-0-0	23-7-10	7-7-10	4-4-5	7-0-1

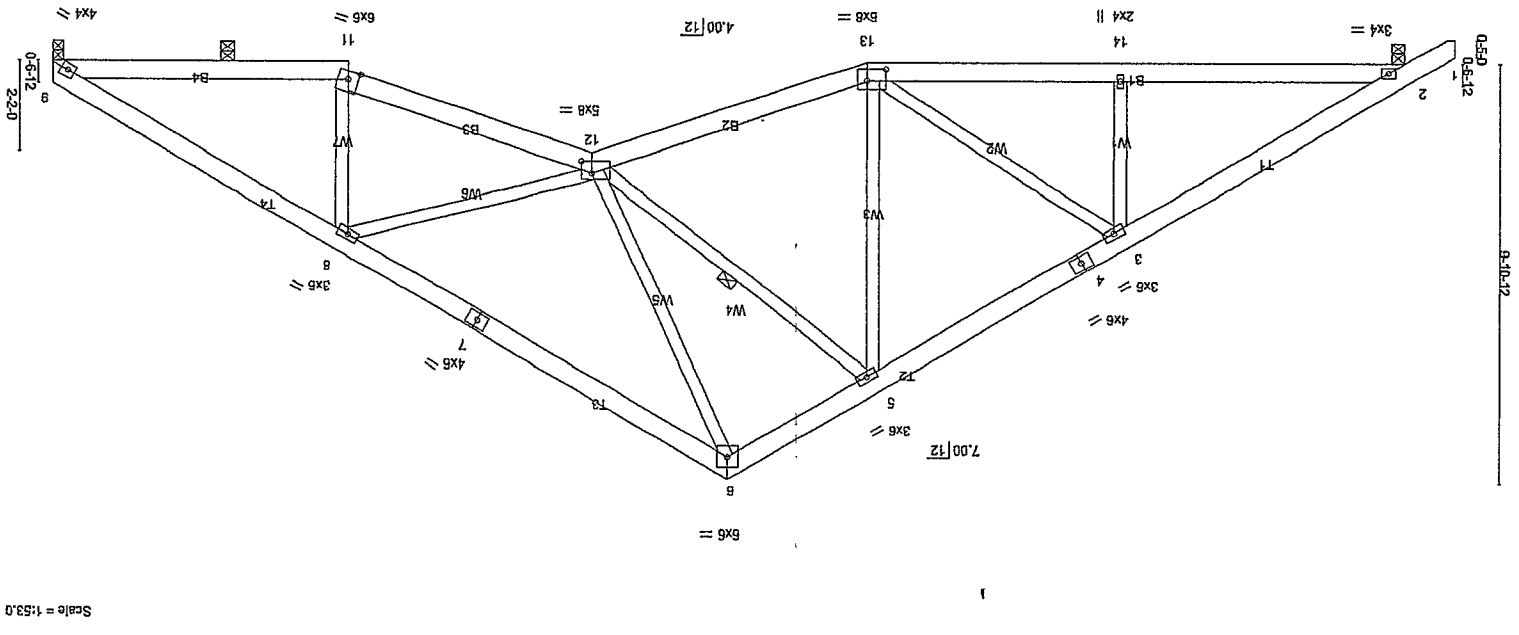


Plate Offsets (X,Y) -- [12:0-3-0,0-3-8], [13:0-5-4,0-3-8]

6-8-10	6-8-10	12-8-8	5-11-14	6-6-0	19-2-8	5-9-7	24-11-15	2-10-5	32-0-0
6-8-10	6-8-10	12-8-8	5-11-14	6-6-0	19-2-8	5-9-7	24-11-15	2-10-5	32-0-0

LOADING (psf)	SPACING	CSL	DEF.	BRACING	LUMBER	REACTIONS	FORCES	NOTES
TCLL 20.0	Plate Gthp DOL 1.15	TC 0.31	Vert(LL) -0.07 11-12 > 999	TOP CHORD 2x6 SP No.1	TOP CHORD 2x6 SP No.1	2=1299/0-3-8 (min. 0-1-9), 9=952/0-3-0 (min. 0-1-8), 10=375/0-3-8 (min. 0-1-8)	2-21=2000/367, 3-21=-1941/388, 3-4=-1538/345, 4-22=-1474/362, 5-22=-1459/377, 5-6=-1298/358, 6-23=-1866/403, 7-23=-1869/377, 7-8=-2009/367, 8-24=-1631/369, 9-24=-1798/346	1) Unbalanced roof live loads have been considered for this design. 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; Cal. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-1-5 to 3-3-8; Interior(1) 3-3-8 to 16-0-0; Exterior(2) 16-0-0 to 20-4-13; Interior(1) 20-4-13 to 32-0-0 zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate gthp DOL=1.60 3) This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangular 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members. 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 9. 5) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R602.10.2 and referenced standard ANS/FP 1. 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord. 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum
BCLL 0.0 *	Rep Stress Incr YES	WB 0.50	Horz(CT) 0.07 9 n/a	BOT CHORD 2x4 SP No.1	WEBS 2x4 SP No.2	Max Horiz 2=234(LC 9) Max Uplift 2=-90(LC 12), 9=-73(LC 13)	2-1=2000/367, 3-21=-1941/388, 3-4=-1538/345, 4-22=-1474/362, 5-22=-1459/377, 5-6=-1298/358, 6-23=-1866/403, 7-23=-1869/377, 7-8=-2009/367, 8-24=-1631/369, 9-24=-1798/346	
BCDL 10.0	Code IRC2015/TP2014	Matrix AS	Wind(LL) 0.05 11-12 > 999	Structural wood sheathing directly applied.				
Weight: 231 lb FT = 25%								

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

1 Row at midpt
 Rigid ceiling directly applied.
 Structural wood sheathing directly applied.

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

REACTIONS. (b/size) 2=1299/0-3-8 (min. 0-1-9), 9=952/0-3-0 (min. 0-1-8), 10=375/0-3-8 (min. 0-1-8)

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

TOP CHORD 2-21=2000/367, 3-21=-1941/388, 3-4=-1538/345, 4-22=-1474/362, 5-22=-1459/377, 5-6=-1298/358, 6-23=-1866/403, 7-23=-1869/377, 7-8=-2009/367, 8-24=-1631/369, 9-24=-1798/346

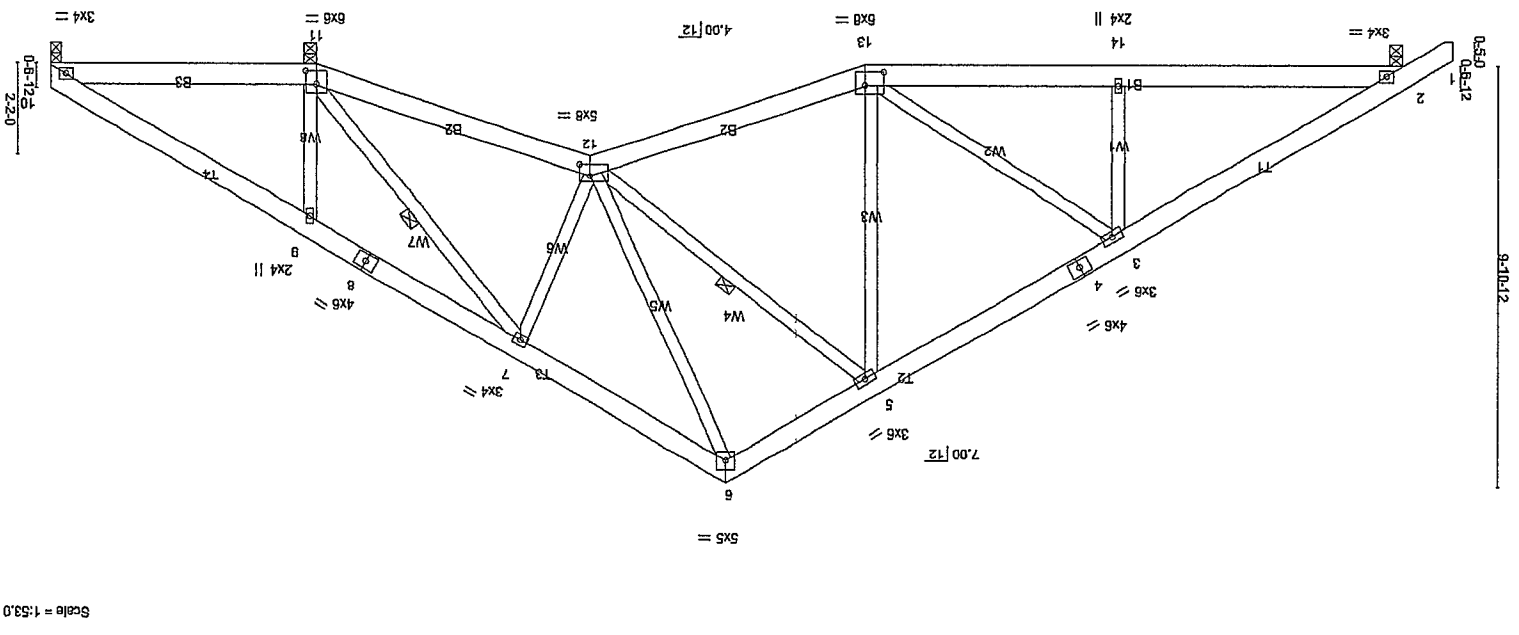
BOT CHORD 2-14=-233/1697, 13-14=-233/1697, 12-13=-105/1330, 11-12=-252/1575, 10-11=-230/1471, 9-10=-232/1477, 8-11=-232/1477

WEBS 3-14=0/258, 3-13=-606/182, 5-12=-304/139, 6-12=-191/1276, 8-12=-52/268, 8-11=-603/193

NOTES

LOAD CASE(S) Standard

1-2-8	6-8-10	12-8-8	5-11-14	3-3-8	16-0-0	20-10-4	4-10-4	25-8-8	4-10-4	6-3-8
1-2-8	6-8-10	12-8-8	5-11-14	3-3-8	16-0-0	20-10-4	4-10-4	25-8-8	4-10-4	6-3-8
32-0-0										



6-8-10	12-8-8	19-2-8	25-8-8	25-8-8	32-0-0
6-8-10	12-8-8	19-2-8	25-8-8	25-8-8	32-0-0
0-1-12	0-1-12	0-1-12	0-1-12	0-1-12	0-1-12
6-1-12	6-1-12	6-1-12	6-1-12	6-1-12	6-1-12

LOADING (psf)		SPACING		CSL		DEFL.		L/D	
TCLL	20.0	Plate Gthp DOL	1.15	TC	0.20	Vert(LL)	-0.03	13	360
TCDL	10.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	-0.07	>999	240
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.50	Horz(CT)	0.04	11	n/a
BCDL	10.0	Code IRC2015/TP12014		MathX-AS		Wind(LL)	0.02	11-20	>999

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

REACTIONS. (lb/size) 2=1050/0-3-8 (min. 0-1-8), 11=1516/0-3-8 (min. 0-1-13), 10=61/0-3-0 (min. 0-1-8)
 Max Horiz Z=234(LC 9)
 Max Uplift=-77(LC 12), 11=-90(LC 13), 10=-91(LC 8)
 Max Grav=2=1050(LC 1), 11=1516(LC 1), 10=125(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD - 2-21=-1517/265, 3-21=-1458/286, 3-4=-1052/244, 4-22=-996/260, 5-22=-979/275,
 5-6=-669/216, 6-23=-929/243, 7-23=-936/214, 7-8=0/320, 9-24=-66/353, 10-24=-93/307
 BOT CHORD - 2-14=-143/327, 12-13=-20/932, 11-12=0/673, 10-11=-322/130
 WEBS - 3-14=0/263, 3-13=-606/178, 5-13=-30/259, 5-12=-499/203, 6-12=-110/593, 7-12=0/422,
 7-11=-143/123, 9-11=-444/266

NOTES-
 1) Unbalanced roof live loads have been considered for this design.
 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; H=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-1-5 to 3-3-8, Interior(1) 3-3-8 to 16-0-0, Exterior(2) 16-0-0 to 20-4-13, Interior(1) 20-4-13 to 32-0-0 zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.50 plate gthp DOL=1.50
 3) This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangular 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 4) * This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 5) Provide mechanical connection (by others) or truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 11, 10.
 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 LOAD CASE(S) Standard

Structural wood sheathing directly applied.
 Rigid ceiling directly applied.
 5-12, 7-11
 1 Row at midpt
 MITtek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

BRACING-

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

LOADING (psf)

TCLL	20.0
TCDL	10.0
BCLL	0.0 *
BCDL	10.0

SPACING

Plate Gthp DOL	1.15
Lumber DOL	1.15
Rep Stress Incr	YES
Code IRC2015/TP12014	

DEFL.

Wind(LL)	0.02	11-20	>999
Horz(CT)	0.04	11	n/a
Vert(CT)	-0.07	12-13	>999
Vert(LL)	-0.03	13	>999

L/D

Top Chord	360
Bot Chord	240
Web	240
Other	n/a

PLATES GRIP
 MT20
 244/190

Weight: 239 lb FT = 25%

LOAD CASE(S) Standard

- 1) Unbalanced roof live loads have been considered for this design.
 2) Wind: ASCE 7-10; V_{ult}=130mph V_{asd}=103mph; TC_{DL}=6.0psf; BC_{DL}=6.0psf; h=15ft; Cat. II; Exp. C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-1-5 to 3-3-8, Interior(1) 3-3-8 to 16-0-0, Exterior(2) 16-0-0 to 20-4-13, Interior(1) 20-4-13 to 33-1-5 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 3) This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangular 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joints(2), 12, 10, 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.1.1 and R802.10.2 and referenced standard ANSI/FP 1.
 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

NOTES

FORCES: (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 5-6=-669/18, 6-2-4=-929/249, 7-2-4=-936/219, 7-8=0/321, 9-2-5=-81/354, 10-2-5=-96/312
 BOT CHORD 2-1-5=-124/1333, 14-1-5=-124/1333, 13-1-4=-11/939, 12-1-3=0/673, 10-1-2=-333/177
 WEBS 3-1-5=0/263, 3-1-4=-605/178, 5-1-4=-33/259, 5-1-3=-505/211, 6-1-3=-116/594, 7-1-3=0/423,
 7-1-2=-1435/148, 9-1-2=-452/214

REACTIONS: (lb/size) 2=1050/0-3-8 (min. 0-1-8), 12=1510/0-3-8 (min. 0-1-13), 10=134/0-3-0 (min. 0-1-8)
 Max Horiz 2=239(LC 10)
 Max Uplift 2=-77(LC 12), 12=-83(LC 13), 10=-31(LC 8)
 Max Grav 2=1050(LC 1), 12=1510(LC 1), 10=197(LC 24)

Mitek recommends that Stabllizers and required cross bracing be installed during truss erection, in accordance with Stabllizer installation guide.

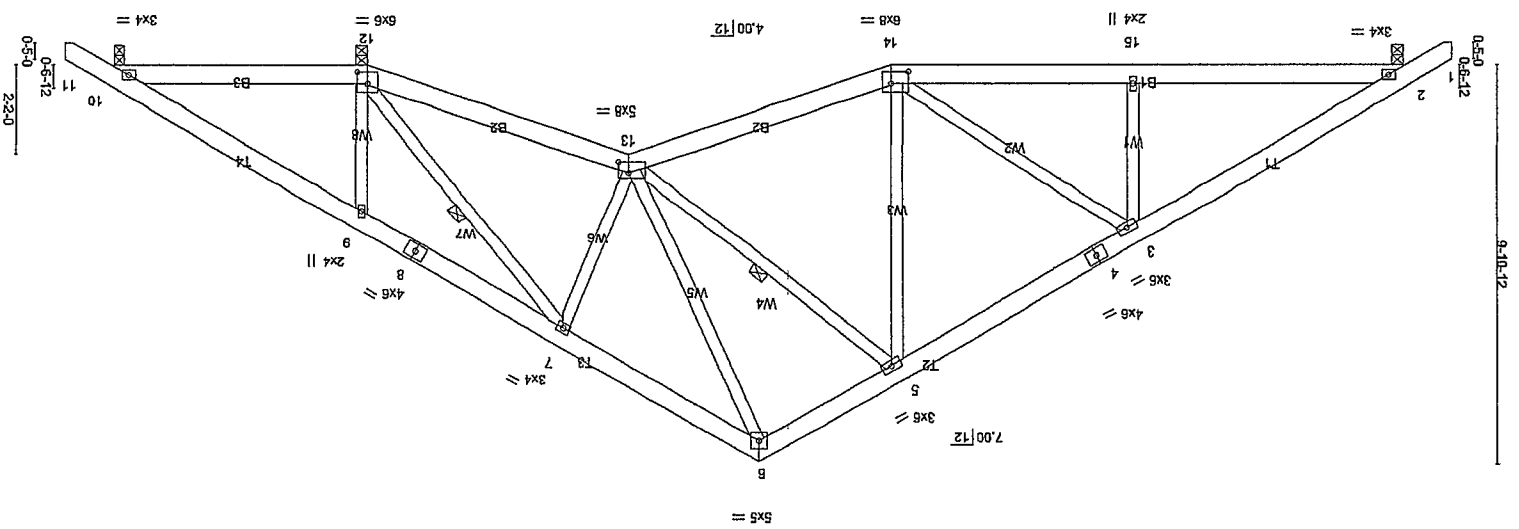
Structural wood sheathing directly applied.
 Rigid ceiling directly applied.
 1 Row at midpt 5-13, 7-12

LUMBER- TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2

LOADING (psf)	SPACING	CSL	DEFL.	in (loc)	in (oc)	L/D	PLATES	GRIP	Weight	FT = 25%
TCLL 20.0	Plate Grip DOL 1.15	TC 0.19	Vert(LT) -0.03	14	>999	360	MT20	244/190		
TCDL 10.0	Lumber DOL 1.15	BC 0.21	Vert(CT) -0.07	13-14	>999	240				
BCLL 0.0 +	Rep Stress Incr YES	WB 0.50	Horz(CT) 0.04	12	n/a	n/a				
BCDL 10.0	Code IRC2015/TP12014	Matrix-AS	Wind(LT) 0.02	15	>999	240				

Plate Offsets (X,Y) -- [12:0-3-0,0-3-8], [13:0-3-0,0-3-8], [14:0-5-4,0-3-8]

6-8-10	12-8-8	19-2-8	25-8-8	32-0-0
6-8-10	5-11-14	6-6-0	6-6-0	6-1-12



1-2-8	6-8-10	12-8-8	5-11-14	3-3-8	4-10-4	20-10-4	25-8-8	4-10-4	6-3-8	1-2-8
1-2-8	6-8-10	12-8-8	5-11-14	16-0-0	4-10-4	20-10-4	25-8-8	4-10-4	6-3-8	1-2-8