



Dade Truss Company, Inc.
6401 NW 74th Avenue
Miami, FL 33166
Tel: (305) 592-8245
Fax: (305) 477-8092

Re : T508-92317: GOMEZ

Site Information: Project Customer: O & R CONSTRUCTION

Job Name : GOMEZ REMODELING

Lot/Block:

Model : Roof Trusses

Site Name:

Site Address: 11040 SW 69 AVE

St: Zip: PINECREST

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

Design Code: FRC2023/TPI2014 Design Program: 8.82 Jan 17 2025 Roof Load: 0.0 psf Floor Load: N/A

Wind Code:

Wind Speed: 175 mph

This package includes 19 individual, dated Truss Design Drawings and 0 Additional Drawings.
With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

No.	Date	Truss ID#	Seal#
1	09/19/25	CJ10	A0327757
2	09/19/25	CJ10A	A0327758
3	09/19/25	H1	A0327759
4	09/19/25	H2	A0327760
5	09/19/25	H3	A0327761
6	09/19/25	H4	A0327762
7	09/19/25	H6	A0327763
8	09/19/25	HGT1	A0327764
9	09/19/25	HGT2	A0327765
10	09/19/25	HGT3	A0327766
11	09/19/25	J1	A0327767
12	09/19/25	J3	A0327768
13	09/19/25	J5	A0327769
14	09/19/25	J5A	A0327770
15	09/19/25	J7	A0327771
16	09/19/25	J7A	A0327772
17	09/19/25	M1	A0327773
18	09/19/25	S1	A0327774
19	09/19/25	S2	A0327775

The truss drawing(s) referenced above have been prepared using MiTek Industries, Inc. engineering software under my direct supervision based on the parameters provided by Dade Truss Company, Inc. of Miami, FL.

COMPONENTS MANAGEMENT SYSTEMS INC.

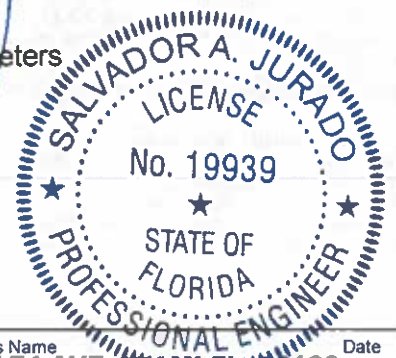
CERTIFICATE OF AUTHORIZATION # 30680

6401 NW 74 AVENUE MIAMI, FL 33166 305-592-8245

SALVADOR A. JURADO P.E, FLORIDA REGISTRATION # 19939

NOTE: The seal on these drawings indicate acceptance of professional engineering responsibility for the truss components shown per ANSI/TPI 1-2014 Section 2.

Salvador A. Jurado
a/a/25



Job 23-37325-1	Truss CJ10	Truss Type CORNER JACK	Qty 2	Ply 1	Job Reference (optional) A0327757
-------------------	---------------	---------------------------	----------	----------	--------------------------------------

Run: 8.82 S Jan 17 2025 Print: 8.820 S Jan 17 2025 MiTek Industries, Inc. Fri Sep 19 15:41:04

Page: 1

ID: LWZHKIFC1oVGD3MOK8oQVlyfKKr-vw5oo_dXys0SOARdtpC_W1f1fNgB0eQ39hSNuPyc1kl

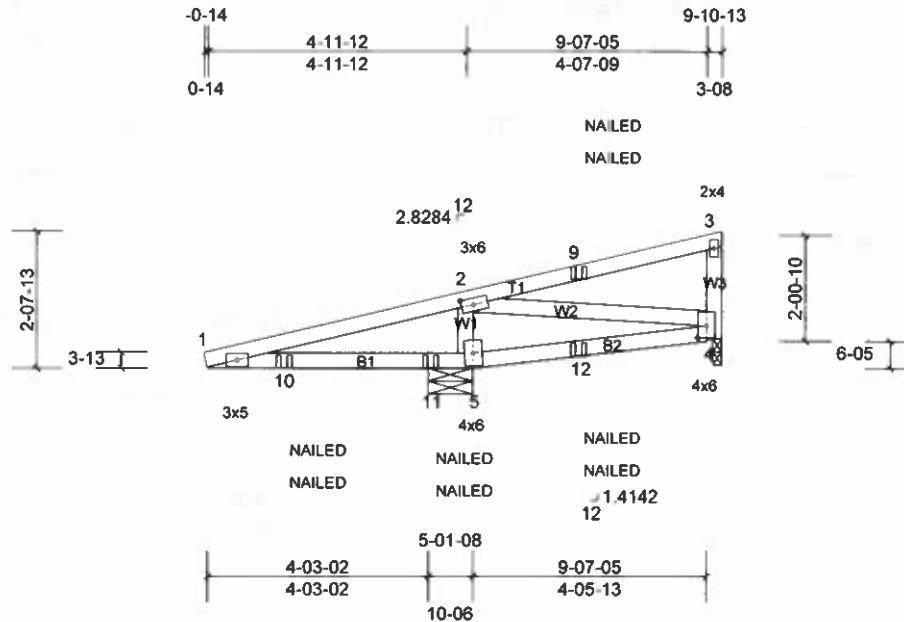


Plate Offsets (X, Y): [2:2-12,1-08], [4:2-12,2-00]

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.25	TC	0.62	Vert(LL)	-0.03	4-5	>999	240	MT20	244/190
TCDL	15.0	Lumber DOL	1.25	BC	0.50	Vert(CT)	-0.03	4-5	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.65	Horz(CT)	-0.02	4	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MSH							Weight: 40 lb	FT = 0%

LUMBER		6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
TOP CHORD	2x4 SP 2250F 1.9E	7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1227 lb uplift at joint 5 and 625 lb uplift at joint 4.
BOT CHORD	2x4 SP No.2	8) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
WEBS	2x4 SP No.3 *Except* W2:2x4 SP No.2	9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 182 lb down and 73 lb up at -0-0-1, and 182 lb down and 73 lb up at -0-0-1 on top chord. The design/selection of such connection device(s) is the responsibility of others
BRACING		LOAD CASE(S) Standard
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.	1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
BOT CHORD	Rigid ceiling directly applied or 3-1-14 oc bracing.	Uniform Loads (lb/ft) Vert: 1-3=90, 5-6=20, 4-5=20
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.		Concentrated Loads (lb) Vert: 1=363, 9=94, 10=116, 11=59

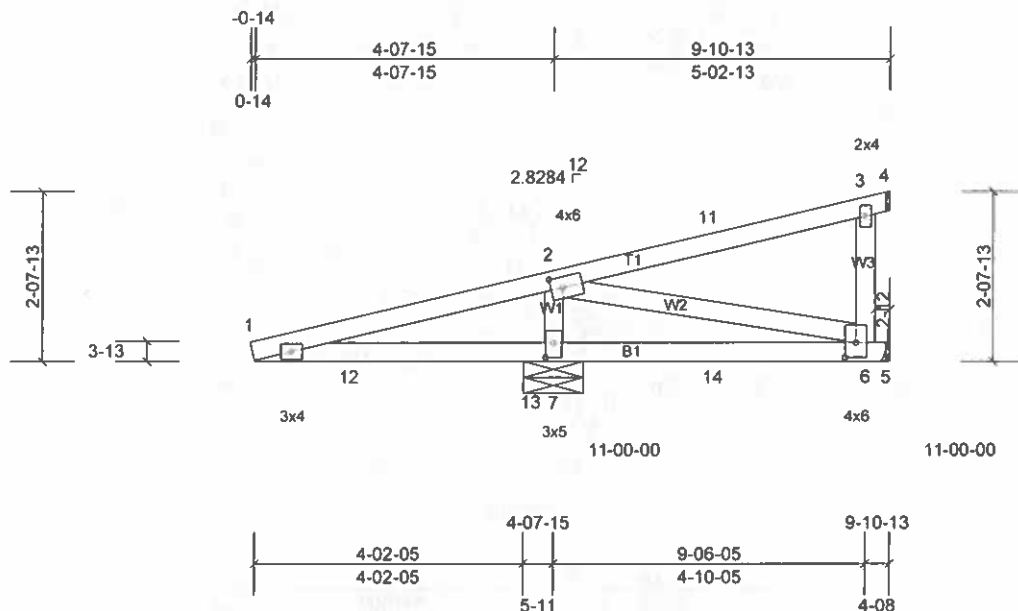
REACTIONS (lb/size)	4=-625/2-00, (min. 1-08),
	5=2140/10-03, (min. 2-08)
Max Horiz	5=148 (LC 21)
Max Uplift	4=-625 (LC 1), 5=-1227 (LC 8)
Max Grav	4=308 (LC 21), 5=2140 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	1-2=-1439/2799
BOT CHORD	1-10=-2655/1418, 10-11=-2655/1418, 5-11=-2655/1418, 5-12=-2876/1393, 4-12=-2871/1397
WEBS	2-5=-1594/939, 2-4=-1390/2869

- NOTES**
- 1) Wind: ASCE 7-22, Vult=175mph (3-second gust) Vasd=136mph; HVHZ; TCDL=5.0psf; BCDL=5.0psf; h=10ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Plates checked for a plus or minus 0 degree rotation about its center.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - 5) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

Job 23-37325-1	Truss CJ10A	Truss Type CORNER JACK	Qty 2	Ply 1	Job Reference (optional) A0327758
-------------------	----------------	---------------------------	----------	----------	--------------------------------------

Run: 8.82 S Jan 17 2025 Print: 8.820 S Jan 17 2025 MiTek Industries, Inc. Fri Sep 19 15:41:06 Page: 1
ID: F6GBopJ1wKSAALmSFfSkryfK4 -niLJeLg105WusnkP6fGwhpLWHEl.yOKf4JQa2Ayc1kh



Scale = 1:23.2

Plate Offsets (X, Y): [2:2-04,2-00], [6:2-12,2-00], [7:2-12,1-08]

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.25	TC	0.61	Vert(LL)	-0.06	6-7	>970	240	MT20	244/190
TCDL	15.0	Lumber DOL	1.25	BC	0.55	Vert(CT)	-0.05	6-7	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.91	Horz(CT)	-0.02	5	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MSH							Weight 41 lb	FT = 0%

LUMBER

TOP CHORD 2x4 SP 2250F 1.9E
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 3-3-6 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=-458/ Mechanical, (min. 1-08), 7=2325/11-05, (min. 2-12)
Max Horiz 7=153 (LC 8)
Max Uplift 5=-543 (LC 19), 7=-1368 (LC 8)
Max Grav 5=370 (LC 28), 7=2325 (LC 1)

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

TOP CHORD 1-2=-1365/2494
BOT CHORD 1-12=-2360/1345, 12-13=-2360/1345, 7-13=-2360/1345, 7-14=-2360/1192, 6-14=-2360/1192

WEBS 2-7=-1676/934, 2-6=-1184/2379

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=175mph (3-second gust) Vasd=136mph; HVHZ; TCDL=5.0psf; BCDL=5.0psf; h=10ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Plates checked for a plus or minus 0 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 543 lb uplift at joint 5 and 1368 lb uplift at joint 7.

8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 150 lb down and 60 lb up at -0-0-1, 150 lb down and 60 lb up at -0-0-1, and 104 lb down and 14 lb up at 7-1-10, and 104 lb down and 14 lb up at 7-1-10 on top chord, and 32 lb down and 13 lb up at -0-0-1, 32 lb down and 13 lb up at -0-0-1, 27 lb down and 30 lb up at 1-5-12, 27 lb down and 30 lb up at 1-5-12, 241 lb down and 218 lb up at 4-3-11, 241 lb down and 218 lb up at 4-3-11, 32 lb down and 12 lb up at 7-1-10, and 32 lb down and 12 lb up at 7-1-10, and 113 lb down and 252 lb up at 9-10-1 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

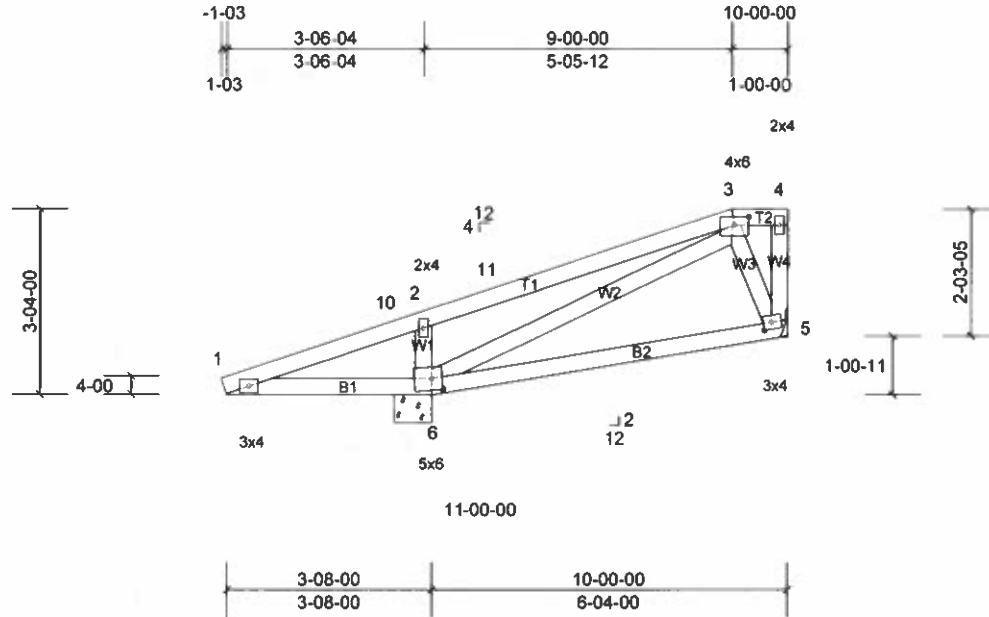
- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-3=-90, 3-4=-90, 5-8=-20
Concentrated Loads (lb)
Vert: 1=-299, 5=122, 8=-64, 12=-55, 13=-483

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)	A0327759
23-37325-1	H1	HIP TR	2	1		

Run: 8.82 S Jan 17 2025 Print: 8.820 S Jan 17 2025 MiTek Industries, Inc. Fri Sep 19 15:41:06

Page: 1

ID: EXazeXgPCzlpX5aflKzr7zzyh?k9-niLJeLg105WusnkP6fGwhptLgHHnyWqf4JQa2Ayc1kh



Scale = 1:34.8

Plate Offsets (X, Y): [3:3-00,1-12], [5:1-12,1-08], [6:2-04,2-08]

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.25	TC	0.60	Vert(LL)	0.13	5-6	>593	240	MT20	244/190
TCDL	15.0	Lumber DOL	1.25	BC	0.33	Vert(CT)	0.10	5-6	>738	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.43	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MSH							Weight: 47 lb	FT = 0%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-11-13 oc purlins, except end verticals.
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.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-06"-00 tall by 2'-00"-00 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 660 lb uplift at joint 6 and 246 lb uplift at joint 5.

LOAD CASE(S) Standard

REACTIONS (lb/size) 5=220/ Mechanical, (min. 1-08), 6=865/8-00, (min. 1-08)
Max Horiz 6=241 (LC 10)
Max Uplift 5=-246 (LC 7), 6=-660 (LC 10)

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

TOP CHORD 1-10=-677/406, 2-10=-671/421,

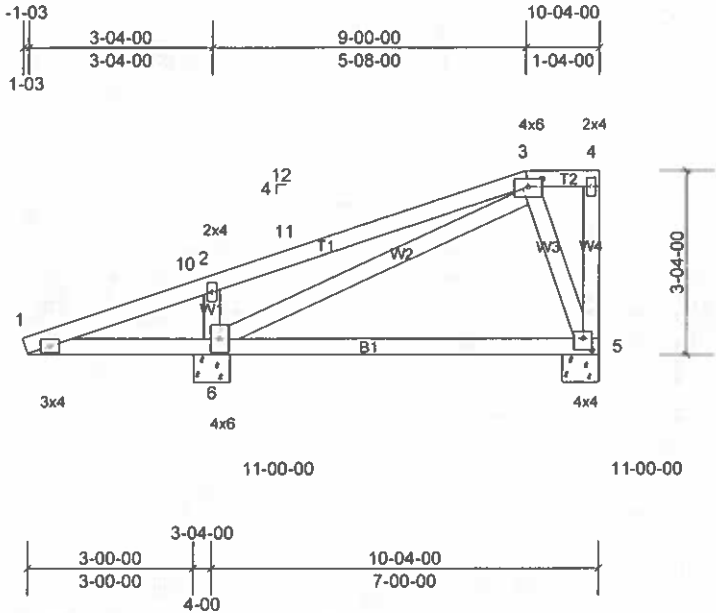
2-11=-517/339, 3-11=-507/480

BOT CHORD 1-6=-330/698, 5-6=-258/120

WEBS 2-6=-488/763, 3-6=-573/668, 3-5=-304/447

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=175mph (3-second gust)
Vasd=136mph, HVHZ; TCDL=5.0psf; BCDL=5.0psf;
h=10ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C;
Enclosed; MWFRS (directional) and C-C Zone3 -0-0-1 to 2-11-15, Zone1 2-11-15 to 4-9-6, Zone2 4-9-6 to 9-0-5, Zone3 9-0-5 to 9-10-4 zone; cantilever left exposed ; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- Plates checked for a plus or minus 0 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.



Scale = 1:36.3

Plate Offsets (X, Y): [3:3-00,1-12], [5:2-00,1-08]

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.25	TC	0.70	Vert(LL)	-0.06	5-6	>999	240	MT20	244/190
TCDL	15.0	Lumber DOL	1.25	BC	0.37	Vert(CT)	-0.11	5-6	>721	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.32	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MSH							Weight: 50 lb	FT = 0%

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

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 122 lb uplift at joint 5 and 485 lb uplift at joint 6.
LOAD CASE(S) Standard

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-6-5 oc purlins, except end verticals.
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) 5=287/8-00, (min. 1-08), 6=834/8-00, (min. 1-08)
Max Horiz 6=194 (LC 10)
Max Uplift 5=-122 (LC 10), 6=-485 (LC 10)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-10=-697/312, 2-10=-689/322, 2-11=-430/178, 3-11=-420/324
BOT CHORD 1-6=-238/699
WEBS 3-5=-317/508, 2-6=-504/817, 3-6=-398/508

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=175mph (3-second gust) Vasd=136mph; HVHZ; TCDL=5.0psf; BCDL=5.0psf; h=10ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 -0-0-1 to 2-11-15, Zone1 2-11-15 to 4-9-6, Zone2 4-9-6 to 9-0-5, Zone3 9-0-5 to 10-2-4 zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - Plates checked for a plus or minus 0 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

Job 23-37325-1	Truss H4	Truss Type HIP TR	Qty 2	Ply 1	Job Reference (optional)	A0327762
-------------------	-------------	----------------------	----------	----------	--------------------------	----------

Run: 8.82 S Jan 17 2025 Print: 8.820 S Jan 17 2025 MiTek Industries, Inc. Fri Sep 19 15:41:07

Page: 1

ID:7c11xzw3hWmcro0qZK67Inyh?c5-FuvshhgnPelUxJbIMnAD4MT?hYehwzolz98acyc1kg

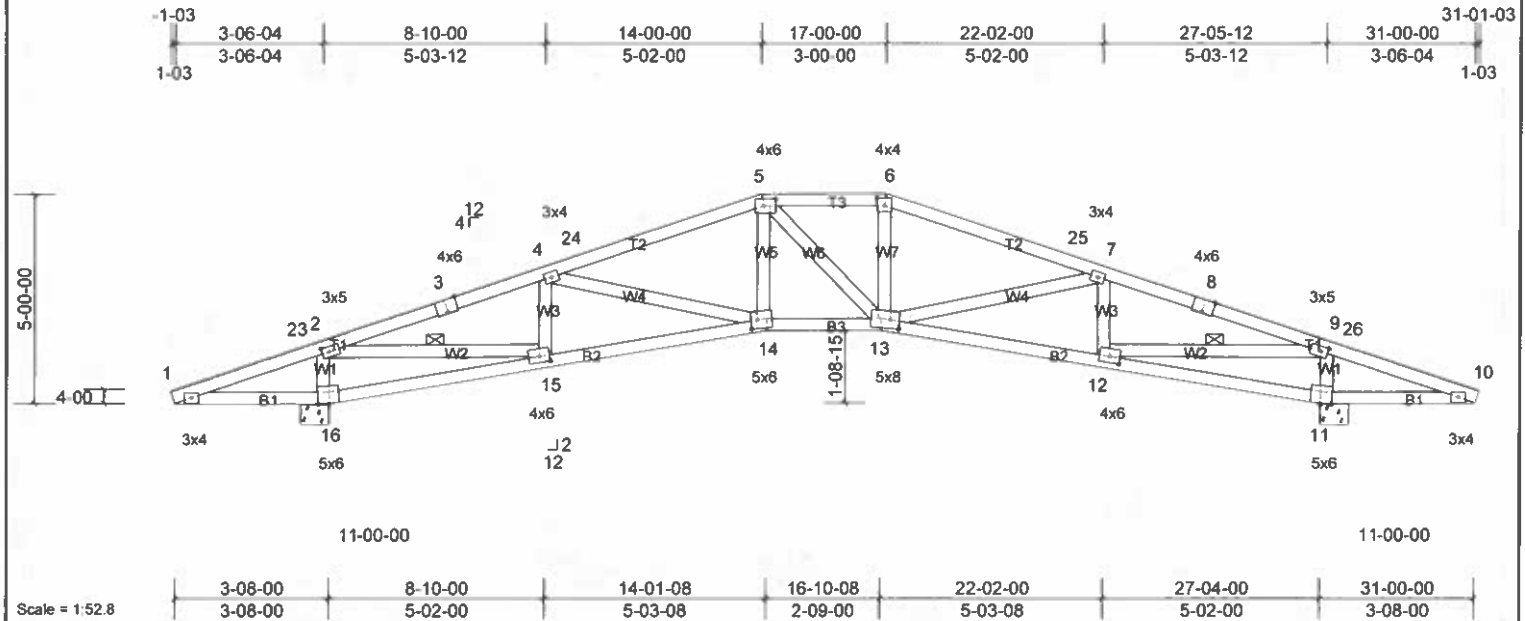


Plate Offsets (X, Y) [2:2-00,1-08], [3:3-00,Edge], [5:3-08,2-00], [6:2-00,2-04], [8:3-00,Edge], [9:2-00,1-08], [12:3-00,1-12], [13:2-08,2-08], [14:1-12,2-08], [15:3-00,1-12]

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.25	TC	0.82	Vert(LL)	0.32	14-15	>881	240	MT20	244/190
TCDL	15.0	Lumber DOL	1.25	BC	0.61	Vert(CT)	-0.31	14-15	>930	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.63	Horz(CT)	0.14	11	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MSH							Weight: 147 lb	FT = 0%

LUMBER		2) Wind: ASCE 7-22; Vult=175mph (3-second gust) Vasd=136mph; HVHZ; TCDL=5.0psf; BCDL=5.0psf; h=10ft; B=45ft; L=31ft; eave=4ft; Cat. II; Exp C; Enclosed: MWFRS (directional) and C-C Zone3 -0-0-1 to 3-1-2, Zone1 3-1-2 to 9-7-11, Zone2 9-7-11 to 21-4-5, Zone1 21-4-5 to 27-10-14, Zone3 27-10-14 to 31-0-1 zone; cantilever left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
TOP CHORD	2x4 SP No.2	3) Provide adequate drainage to prevent water ponding. 4) Plates checked for a plus or minus 0 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 3-06-00 tall by 2-00-00 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 1418 lb uplift at joint 16 and 1222 lb uplift at joint 11.
BOT CHORD	2x4 SP No.2	
WEBS	2x4 SP No.3 *Except* W2:2x4 SP No.2	
BRACING		LOAD CASE(S) Standard
TOP CHORD	Structural wood sheathing directly applied or 3-0-5 oc purlins.	
BOT CHORD	Rigid ceiling directly applied or 3-9-11 oc bracing.	
WEBS	1 Row at midpt 2-15, 9-12	
REACTIONS (lb/size)		
11=1706/8-00, (min. 2-00), 16=1706/8-00, (min. 2-00)		
Max Horiz 16=172 (LC 9)		
Max Uplift 11=1222 (LC 10), 16=1418 (LC 10)		
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.		
TOP CHORD		
1-23=-535/426, 2-23=-529/438, 2-3=-2445/2469, 3-4=-2361/2484, 4-24=-2530/2659, 5-24=-2449/2674, 5-6=-2339/2628, 6-25=-2450/2674, 7-25=-2531/2660, 7-8=-2361/2484, 8-9=-2444/2469, 9-26=-528/438, 10-26=-535/426		
BOT CHORD		
1-16=-351/556, 15-16=-544/772, 14-15=-2125/2274, 13-14=-2136/2338, 10-11=-351/556, 12-13=-2125/2274, 11-12=-544/772		
WEBS		
4-15=-538/443, 4-14=-95/271, 7-13=-127/273, 7-12=-539/443, 2-16=-1510/1493, 2-15=-2909/2778, 5-14=-489/431, 6-13=-489/431, 9-11=-1510/1493, 9-12=-2908/2778		
NOTES		
1) Unbalanced roof live loads have been considered for this design.		

Job 23-37325-1	Truss H6	Truss Type HIP TR	Qty 1	Ply 1	Job Reference (optional)	A0327763
-------------------	-------------	----------------------	----------	----------	--------------------------	----------

Run: 8.82 S Jan 17 2025 Print: 8.820 S Jan 17 2025 MiTek Industries, Inc. Fri Sep 19 15:41:07

Page: 1

ID: gjlmbaLaKs_dubOezacID2yh?SW-FuvhshhgnPelUxJbIMnAD4MSMhYUhvAolz98acyc1kg

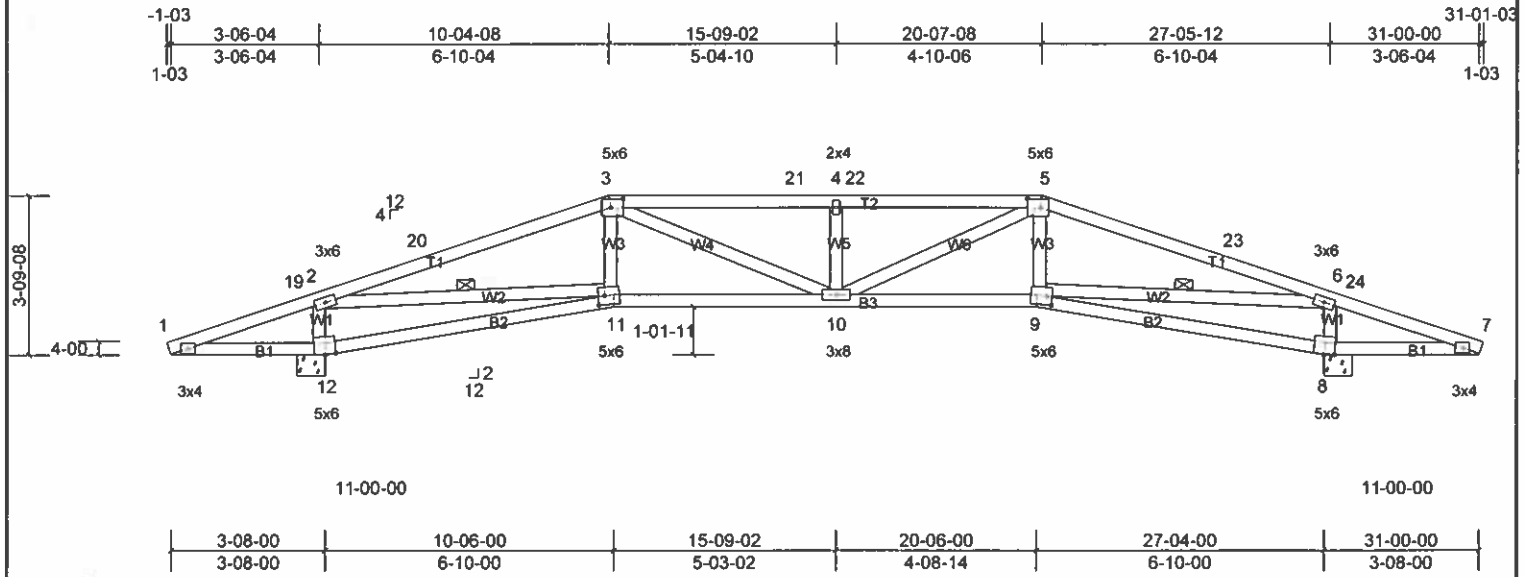


Plate Offsets (X, Y) [3:3-08,2-08], [5:3-08,2-08], [9:1-12,2-08], [11:1-12,2-08]

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.25	TC	0.86	Vert(LL)	0.38	10-11	>755	240	MT20	244/190
TCDL	15.0	Lumber DOL	1.25	BC	0.62	Vert(CT)	-0.37	10-11	>774	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.68	Horz(CT)	0.13	8	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MSH							Weight: 142 lb	FT = 0%

LUMBER

TOP CHORD 2x4 SP 2250F 1 9E *Except* T2:2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except* W2:2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-6-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 3-6-15 oc bracing.
WEBS 1 Row at midpt 2-11, 6-9

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

2) Wind: ASCE 7-22; Vult=175mph (3-second gust)
Vasd=136mph; HVHZ: TCDL=5.0psf; BCDL=5.0psf;
h=10ft; B=45ft; L=31ft; eave=4ft; Cat. II; Exp C;
Enclosed; MWFRS (directional) and C-C Zone3 -0-0-1 to 3-1-2, Zone1 3-1-2 to 6-0-3, Zone2 6-0-3 to 14-9-6, Zone1 14-9-6 to 16-2-10, Zone2 16-2-10 to 24-11-13, Zone1 24-11-13 to 27-10-14, Zone3 27-10-14 to 31-0-1 zone; cantilever left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown, Lumber DOL=1.60 plate grip DOL=1.60

3) Provide adequate drainage to prevent water ponding.
4) Plates checked for a plus or minus 0 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 3-06-00 tall by 2-00-00 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 1418 lb uplift at joint 12 and 1222 lb uplift at joint 8.

LOAD CASE(S) Standard

REACTIONS (lb/size) 8=1706/8-00, (min. 2-00), 12=1706/8-00, (min. 2-00)
Max Horiz 12=128 (LC 8)
Max Uplift 8=-1222 (LC 10), 12=-1418 (LC 10)

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

TOP CHORD 1-19=-332/270, 2-19=-324/283, 2-20=-2652/2855, 3-20=-2542/2875, 3-21=-3034/3496, 4-21=-3034/3496, 4-22=-3034/3496, 5-22=-3034/3496, 5-23=-2534/2867, 6-23=-2645/2847, 6-24=-320/278, 7-24=-328/266

BOT CHORD 1-12=-187/336, 11-12=-381/571, 10-11=-2440/2413, 9-10=-2431/2405, 8-9=-377/566, 7-8=-186/331

WEBS 2-12=-1541/1604, 2-11=-3020/2776, 6-9=-3007/2763, 6-8=-1541/1604, 5-10=-761/830, 4-10=-504/436, 3-10=-738/815

NOTES

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

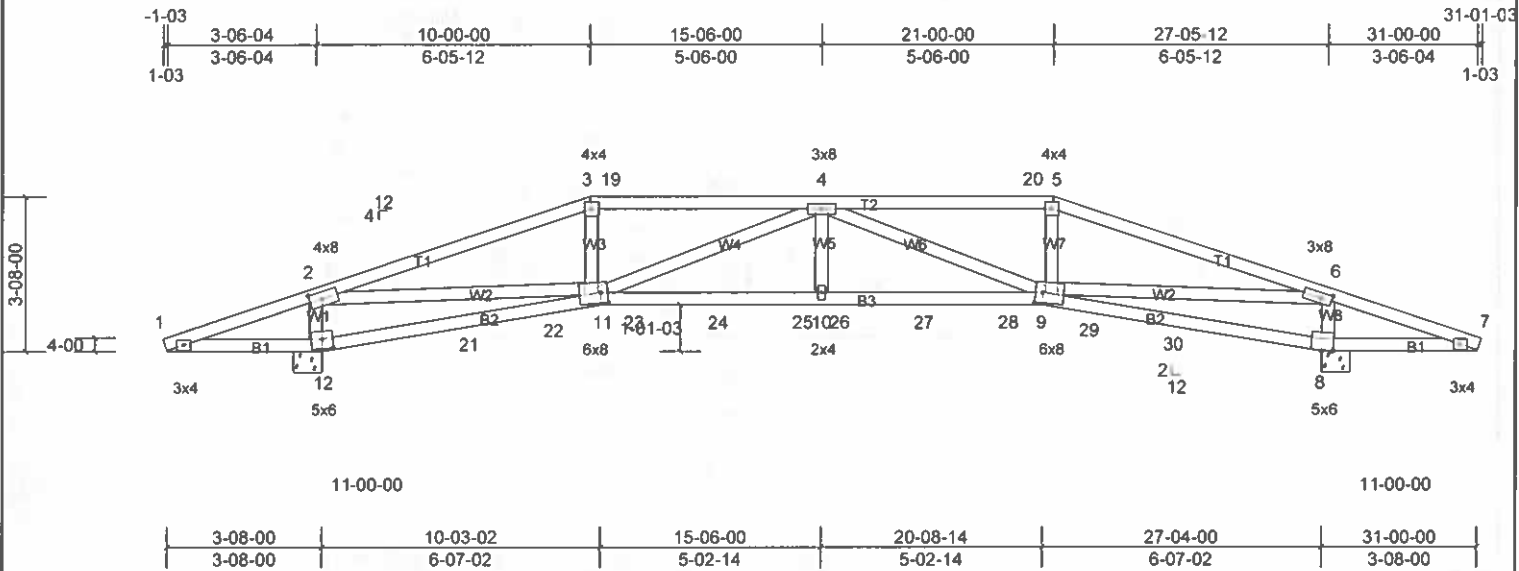


Plate Offsets (X, Y): [2:3-08,2-00], [6:2-12,1-08], [9:2-00,3-00], [11:2-00,3-00], [12:3-00,2-12]

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.25	TC	0.67	Vert(LL)	0.38	10-11	>747	240	MT20	244/190
TCDL	15.0	Lumber DOL	1.25	BC	0.76	Vert(CT)	0.40	8-9	>701	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.88	Horz(CT)	-0.14	8	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MSH							Weight: 283 lb	FT = 0%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP 2250F 1.9E *Except* B1:2x4 SP No.2
WEBS 2x4 SP No.3
BRACING
TOP CHORD Structural wood sheathing directly applied or 5-4-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
REACTIONS (lb/size) 8=2149/8-00, (min. 1-08), 12=2149/8-00, (min. 1-08)
Max Horiz 12=-123 (LC 6)
Max Uplift 8=-2345 (LC 8), 12=-2542 (LC 8)
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-498/577, 2-3=-4326/4920, 3-19=-4092/4849, 4-19=-4092/4849, 4-20=-4092/4912, 5-20=-4092/4912, 5-6=-4326/4983, 6-7=-443/577
BOT CHORD 1-12=-451/471, 12-21=-578/488, 21-22=-712/582, 11-22=-692/590, 11-23=-5856/5731, 23-24=-5856/5731, 24-25=-5856/5731, 10-25=-5856/5731, 10-26=-5856/5731, 26-27=-5856/5731, 27-28=-5856/5731, 9-28=-5856/5731, 9-29=-692/484, 29-30=-712/476, 8-30=-578/382, 7-8=-451/412
WEBS 2-12=-2142/2006, 2-11=-4776/4522, 3-11=-1273/949, 4-10=-717/894, 5-9=-1290/949, 6-9=-4609/4522, 6-8=-2142/1924, 4-11=-1906/1332, 4-9=-1906/1263
NOTES
1) 2-ply truss to be connected together with 10d (0.148"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 9-00 oc.
Bottom chords connected as follows: 2x4 - 1 row at 7-00 oc.
Web connected as follows: 2x4 - 1 row at 9-00 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-22; Vult=175mph (3-second gust) Vasd=136mph; HVHZ; TCCL=5.0psf; BCDL=5.0psf; h=10ft; B=45ft; L=31ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed ; Lumber DOL=1.60 plate grip DOL=1.60
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 0 degree rotation about its center.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 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 2542 lb uplift at joint 12 and 2345 lb uplift at joint 8.
10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 572 lb down and 883 lb up at 7-0-12, 200 lb down and 256 lb up at 9-0-12, 200 lb down and 253 lb up at 11-0-12, 200 lb down and 253 lb up at 13-0-12, 200 lb down and 253 lb up at 15-0-12, 200 lb down and 253 lb up at 15-11-4, 200 lb down and 253 lb up at 17-11-4, 200 lb down and 253 lb up at 19-11-4, and 200 lb down and 256 lb up at 21-11-4, and 572 lb down and 883 lb up at 23-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-3=-90, 3-5=-90, 5-7=-90, 12-13=-20, 11-12=-20, 9-11=-20, 8-9=-20, 8-16=-20
Concentrated Loads (lb)
Vert: 21=358, 22=-200, 23=-200, 24=-200, 25=-200, 26=-200, 27=-200, 28=-200, 29=-200, 30=358

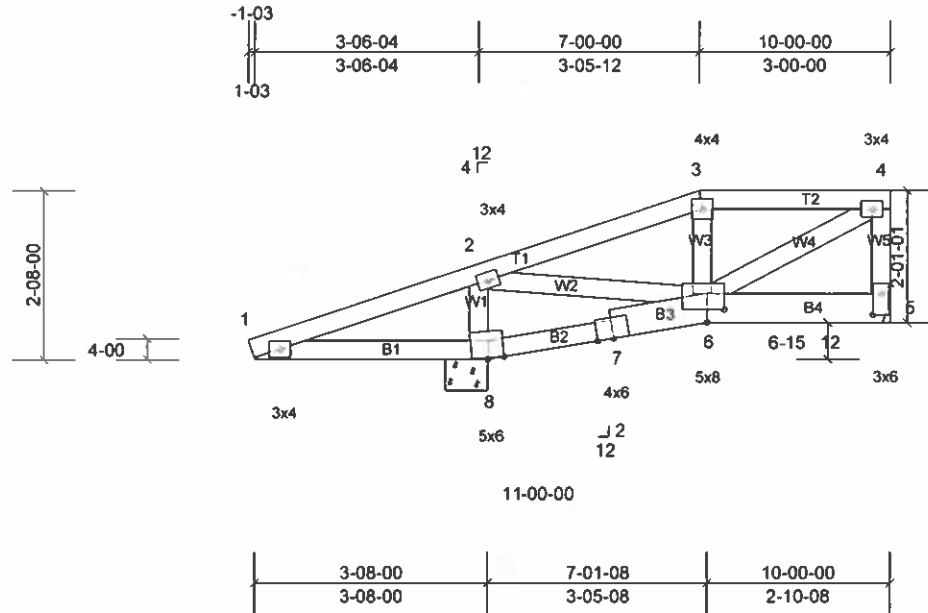
SALVADOR JURADO P.E STATE OF FLORIDA REG NO. 19939 6401 NW 74 AVE. MIAMI FL. 33166

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)	A0327765
23-37325-1	HGT2	HIP GIRDER TR	2	1		

Run: 8.82 S Jan 17 2025 Print: 8.82 S Jan 17 2025 MiTek Industries, Inc. Fri Sep 19 15:41:08

Page: 1

ID: Lr5x2Gs2UctB6rD83OfCyf3x9-k4T33itXimc6SunD3IPm\vhZ5zZQR7yXdh62yc1kf



Scale = 1:32.4

Plate Offsets (X, Y) [5:2-00,1-08], [6:3-04,2-08]

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.25	TC	0.64	Vert(LL)	-0.02	6-8	>999	240	MT20	244/190
TCDL	15.0	Lumber DOL	1.25	BC	0.31	Vert(CT)	0.02	6-8	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.38	Horz(CT)	-0.01	5	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MSH							Weight: 49 lb	FT = 0%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except* B3,B4:2x6 SP No.2
WEBS 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-7-3 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-0-7 oc bracing.

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

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-06-00 tall by 2'-00-00 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 863 lb uplift at joint 5 and 1309 lb uplift at joint 8.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 272 lb down and 224 lb up at -0-0-1 on top chord, and 404 lb down and 654 lb up at 7-1-8, and 285 lb down and 390 lb up at 7-1-8, and 281 lb down and 388 lb up at 9-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-3=-90, 3-4=-90, 8-9=-20, 6-8=-20, 5-6=-20
Concentrated Loads (lb)
Vert: 1=-272, 6=371, 12=186

FORCES

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1061/1333, 2-3=-767/1182, 3-4=-725/1120, 4-5=-377/579
BOT CHORD 1-8=-1206/1031, 7-8=-1315/976, 6-7=-1308/978
WEBS 2-8=-758/964, 2-6=-1468/985, 3-6=-634/400, 4-6=-1298/841

NOTES

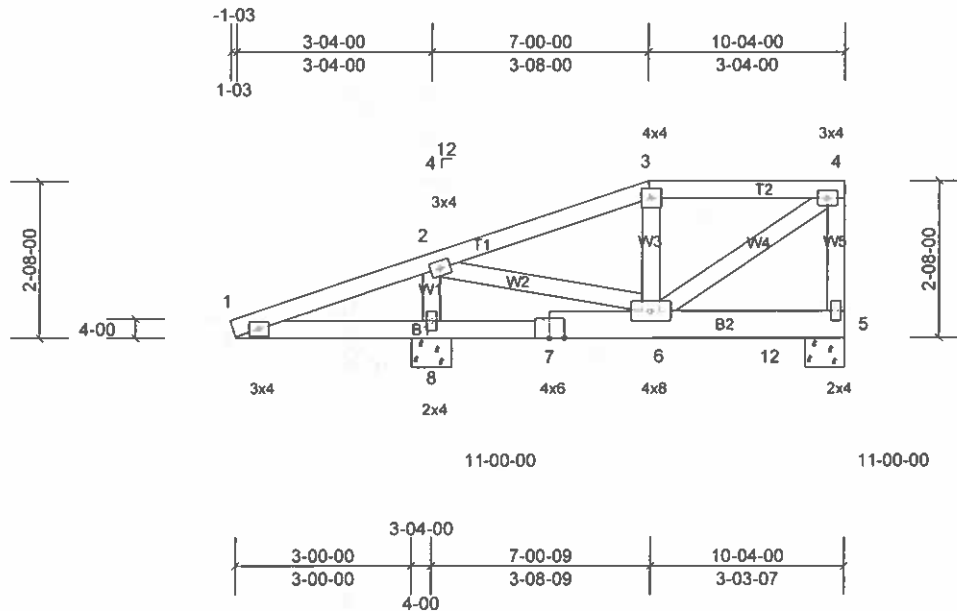
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=175mph (3-second gust)
Vasd=136mph; HVHZ; TCDL=5.0psf; BCDL=5.0psf;
h=10ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C;
Enclosed; MWFRS (directional); cantilever left exposed;
porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- Plates checked for a plus or minus 0 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.

Job 23-37325-1	Truss HGT3	Truss Type HIP GIRDER TR	Qty 2	Ply 1	Job Reference (optional) A0327766
-------------------	---------------	-----------------------------	----------	----------	--------------------------------------

Run: 8.82 S Jan 17 2025 Print: 8.820 S Jan 17 2025 MiTek Industries, Inc. Fri Sep 19 15:41:08

Page 1

ID: CY0SA?XbJPYn4k8YfW1iWYf3QX-k4T33iilXimc6SunD3IPmlvkd5?wQUOyXdvh62yc1kf



Scale = 1:33.9

Loading	(psf)	Spacing	2-00-00	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.25	TC	0.38	Vert(LL)	-0.01	5-6	>999	240	MT20
TCDL	15.0	Lumber DOL	1.25	BC	0.16	Vert(CT)	0.01	5-6	>999	180	244/190
BCLL	0.0*	Rep Stress Incr	NO	WB	0.17	Horz(CT)	0.00	5	n/a	n/a	
BCDL	10.0	Code	FRC2023/TP12014	Matrix-MSH							
										Weight: 53 lb	FT = 0%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2 *Except* B1:2x4 SP No.2
WEBS 2x4 SP No.3

8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 356 lb down and 572 lb up at 7'-0-0, and 110 lb down and 258 lb up at 9'-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

BRACING
TOP CHORD Structural wood sheathing directly applied or 9'-7-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6'-0-0 oc bracing.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-3=-90, 3-4=-90, 5-9=-20
Concentrated Loads (lb)
Vert: 6=285, 12=128

REACTIONS (lb/size) 5=21/8-00, (min. 1-08), 8=688/8-00, (min. 1-08)
Max Horiz 8=151 (LC 8)
Max Uplift 5=423 (LC 5), 8=649 (LC 8)
Max Grav 5=327 (LC 6), 8=688 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-358/450, 2-3=-338/355, 3-4=-307/335, 4-5=-274/318
BOT CHORD 1-8=-376/366, 7-8=-376/215, 6-7=-376/216
WEBS 3-6=-399/269, 4-6=-427/372, 2-8=-552/564, 2-6=-510/424

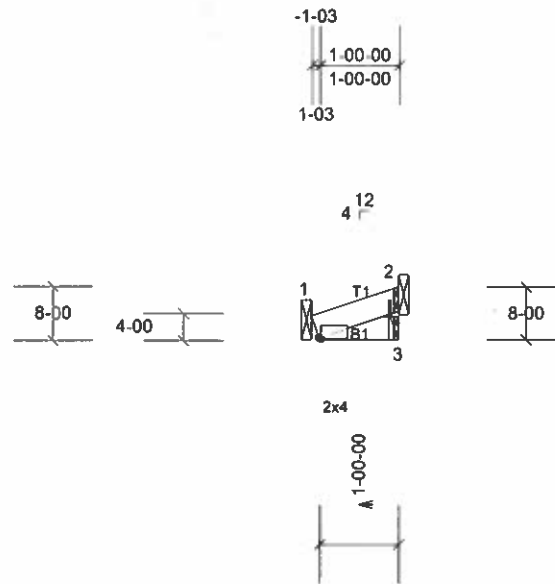
NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=175mph (3-second gust)
Vasd=136mph; HVHZ, TCDL=5.0psf; BCDL=5.0psf;
h=10ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C;
Enclosed; MWFRS (directional); cantilever left exposed;
Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) Plates checked for a plus or minus 0 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'-06"-00" tall by 2'-00"-00" 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 423 lb uplift at joint 5 and 649 lb uplift at joint 8.

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
23-37325-1	J1	JACK TR45	8	1	A0327767

Run: 8.82 S Jan 17 2025 Print: 8.820 S Jan 17 2025 MiTek Industries, Inc. Fri Sep 19 15:41:08

Page: 1

ID: fyxC3x1MIsE_V4CkPDE2yOIR-k4T331Ximc85unD3lPmlvq551oQW2yXdh62yc1kf



Scale = 1:15.8

Plate Offsets (X, Y): [1:0-05,0-02]

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.25	TC	0.03	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	15.0	Lumber DOL	1.25	BC	0.04	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	n/a	-	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MP							Weight: 3 lb	FT = 0%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 1-0-0 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) 1=50/ Mechanical, (min. 1-08), 2=0/ Mechanical, (min. 1-08), 3=68/ Mechanical, (min. 1-08)
Max Horiz 2=26 (LC 1), 3=26 (LC 1)
Max Uplift 1=-20 (LC 10), 3=-27 (LC 10)

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

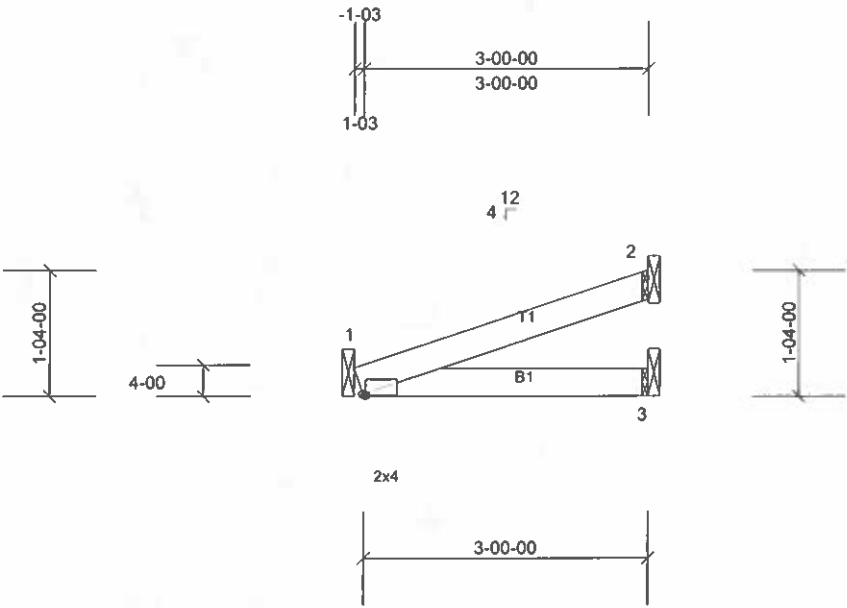
NOTES

- 1) Wind: ASCE 7-22; Vult=175mph (3-second gust)
Vasd=136mph; HVHZ; TCDL=5.0psf; BCDL=5.0psf;
h=10ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C;
Enclosed; MWFRS (directional) and C-C Zone3 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) Plates checked for a plus or minus 0 degree rotation about its center.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20 psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 20 lb uplift at joint 1 and 27 lb uplift at joint 3.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
23-37325-1	J3	JACK TR45	8	1	A0327768

Run: 8.82 S Jan 17 2025 Print: 8.820 S Jan 17 2025 MiTek Industries, Inc. Fri Sep 19 15:41:08 Page: 1
ID:nO1OSerKMZe4_UdtTl060LyfOkr-k4T331||Ximc65unD3lPmlvIE5zQW2yXdh62yc1kl



Scale = 1:16.9

Plate Offsets (X, Y): [1:0-05,0-02]

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.25	TC	0.34	Vert(LL)	0.02	3-5	>999	240	MT20	244/190
TCDL	15.0	Lumber DOL	1.25	BC	0.30	Vert(CT)	0.02	3-5	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	1	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MP							Weight 9 lb	FT = 0%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 7-4-5 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=270/ Mechanical, (min. 1-08), 2=0/ Mechanical, (min. 1-08), 3=58/ Mechanical, (min. 1-08)
Max Horiz 2=-311 (LC 1), 3=311 (LC 1)
Max Uplift 1=-204 (LC 10), 3=-66 (LC 10)
Max Grav 1=270 (LC 1), 3=59 (LC 3)

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

TOP CHORD 1-2=-367/744
BOT CHORD 1-3=-661/330

NOTES

- 1) Wind: ASCE 7-22; Vult=175mph (3-second gust) Vasd=136mph; HVHZ; TCDL=5.0psf; BCDL=5.0psf; h=10ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 zone; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Plates checked for a plus or minus 0 degree rotation about its center.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 204 lb uplift at joint 1 and 66 lb uplift at joint 3.

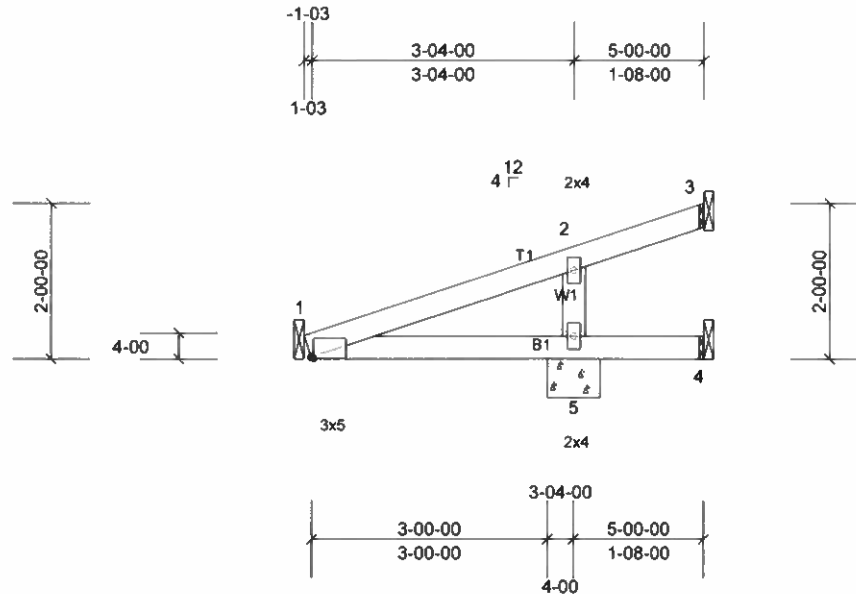
LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)	A0327769
23-37325-1	J5	JACK TR45	4	1		

Run: 8.82 S Jan 17 2025 Print: 8.820 S Jan 17 2025 MiTek Industries, Inc. Fri Sep 19 15:41:08

Page: 1

ID:ggHuQGDDjG65pPZkDOnOMfyOPi-k4T331iIXimc65unD3IPmlvnp5zZQUEyXdvh62yc1kf



Scale = 1:20.8

Plate Offsets (X, Y): [1.0-05,0-02]

Loading	(psf)	Spacing		2'-00'-00"	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL		1.25	TC	0.24	Vert(LL)	0.02	5-7	>999	240	MT20	244/190
TCDL	15.0	Lumber DOL		1.25	BC	0.31	Vert(CT)	0.02	5-7	>999	180		
BCLL	0.0*	Rep Stress Incr	YES		WB	0.18	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014		Matrix-MP							Weight: 17 lb	FT = 0%

LUMBER

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

LOAD CASE(S) Standard

BRACING

TOP CHORD Structural wood sheathing directly applied or 5'-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 1-08. except 5=8'-00"

(lb) - Max Horiz 5=106 (LC 10)

Max Uplift All uplift 100 (lb) or less at joint(s)
1, 3, 4 except 5=296 (LC 10)

Max Grav All reactions 250 (lb) or less at joint
(s) 1, 3, 4 except 5=379 (LC 1)

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

BOT CHORD 1-5=-190/312

WEBS 2-5=-268/606

NOTES

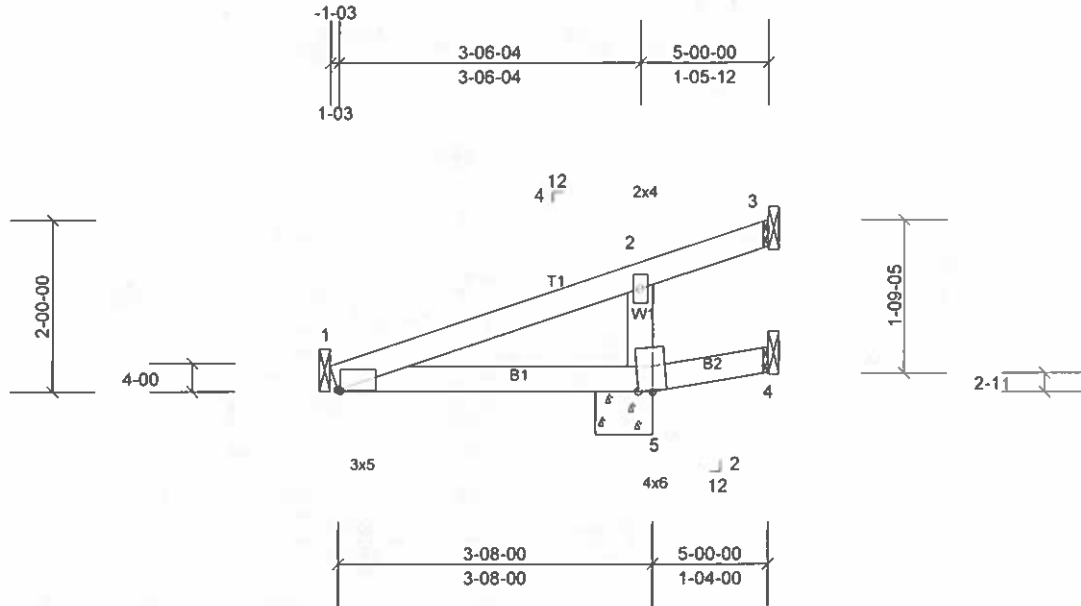
- 1) Wind: ASCE 7-22; Vult=175mph (3-second gust)
Vasd=136mph; HVHZ; TCDL=5.0psf; BCDL=5.0psf;
h=10ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C;
Enclosed; MWFRS (directional) and C-C Zone3 zone;
porch left exposed; C-C for members and forces &
MWFRS for reactions shown; Lumber DOL=1.60 plate
grip DOL=1.60
- 2) Plates checked for a plus or minus 0 degree rotation
about its center.
- 3) This truss has been designed for a 10.0 psf bottom chord
live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3'-06'-00" tall by 2'-00'-00" wide will fit between the bottom
chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 100 lb uplift at joint
(s) 1, 3, 4 except (jt=lb) 5=296.

Job 23-37325-1	Truss J5A	Truss Type JACK TR45	Qty 4	Ply 1	Job Reference (optional) A0327770
-------------------	--------------	-------------------------	----------	----------	--------------------------------------

Run 8.82 S Jan 17 2025 Print: 8.820 S Jan 17 2025 MiTek Industries, Inc. Fri Sep 19 15:41 09

Page: 1

ID: wG2C2sC5ebeKDM348_aLPOyPMP-CH0RGNjwI0uTkFT_nnqeJVRxJUJy9wA5mHeFeVyc1ke



Scale = 1:19.3

Plate Offsets (X, Y): [1.0-05,0-02]

Loading	(psf)	Spacing	2-00-00	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.25	TC	0.32	Vert(LL)	0.04	5-7	>999	240	244/190
TCDL	15.0	Lumber DOL	1.25	BC	0.30	Vert(CT)	0.03	5-7	>999	180	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.00	1	n/a	n/a	
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MP							
Weight: 17 lb FT = 0%											

LUMBER

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

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 3 except (jt=lb) 1=129, 5=278.

LOAD CASE(S) Standard

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-0-0 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 1-08, except 5=8-00
(lb) - Max Horiz 5=106 (LC 10)
Max Uplift All uplift 100 (lb) or less at joint(s) 3 except 1=129 (LC 10), 5=278 (LC 10)
Max Grav All reactions 250 (lb) or less at joint (s) 1, 3, 4 except 5=350 (LC 1)

FORCES

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=224/349
BOT CHORD 1-5=292/233
WEBS 2-5=289/658

NOTES

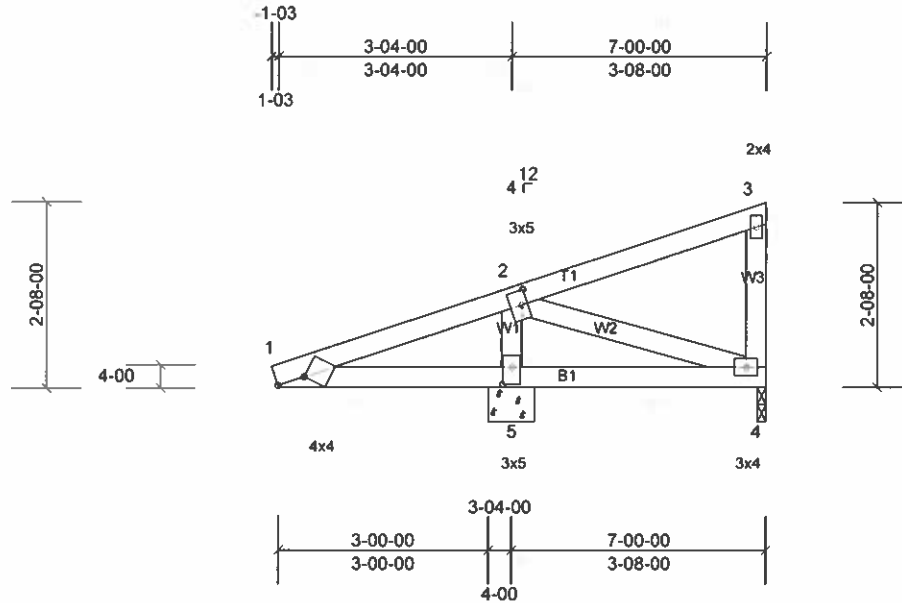
- 1) Wind: ASCE 7-22; Vult=175mph (3-second gust)
Vasd=136mph; HVHZ; TCDL=5.0psf; BCDL=5.0psf;
h=10ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C;
Enclosed, MWFRS (directional) and C-C Zone3 zone;
porch left exposed;C-C for members and forces &
MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Plates checked for a plus or minus 0 degree rotation about its center.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)	A0327771
23-37325-1	J7	JACK TR	4	1		

Run: 8.82 S Jan 17 2025 Print: 8.820 S Jan 17 2025 MiTek Industries, Inc. Fri Sep 19 15:41:09

Page: 1

ID: v8Tik6Fu5opt37Sof4H1nyIk43-CH0RGNjwI0uTkFT_nnqeJVRsTUFu9rs5mHeFeVyc1ke



Scale = 1/232

Plate Offsets (X, Y): [1:3-06,Edge], [2:2-08,1-00], [5:3-00,1-08]

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.25	TC	0.63	Vert(LL)	-0.02	4-5	>999	240	MT20	244/190
TCDL	15.0	Lumber DOL	1.25	BC	0.56	Vert(CT)	-0.02	4-5	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.54	Horz(CT)	0.01	4	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MP							Weight: 31 lb	FT = 0%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-9-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 5-4-13 oc bracing.

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

- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 688 lb uplift at joint 5 and 238 lb uplift at joint 4.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 271 lb down and 384 lb up at -0-0-1 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-3=-90, 4-6=-20
Concentrated Loads (lb)
Vert: 1=-271

REACTIONS (lb/size) 4=-238/1-08, (min. 1-08),
5=1264/8-00, (min. 1-08)
Max Horiz 5=147 (LC 10)
Max Uplift 4=-238 (LC 1), 5=688 (LC 10)
Max Grav 4=120 (LC 10), 5=1264 (LC 1)

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

TOP CHORD 1-2=-1956/1229
BOT CHORD 1-5=-1109/1926, 4-5=-1109/1523
WEBS 2-5=-1123/1817, 2-4=-1602/1166

NOTES

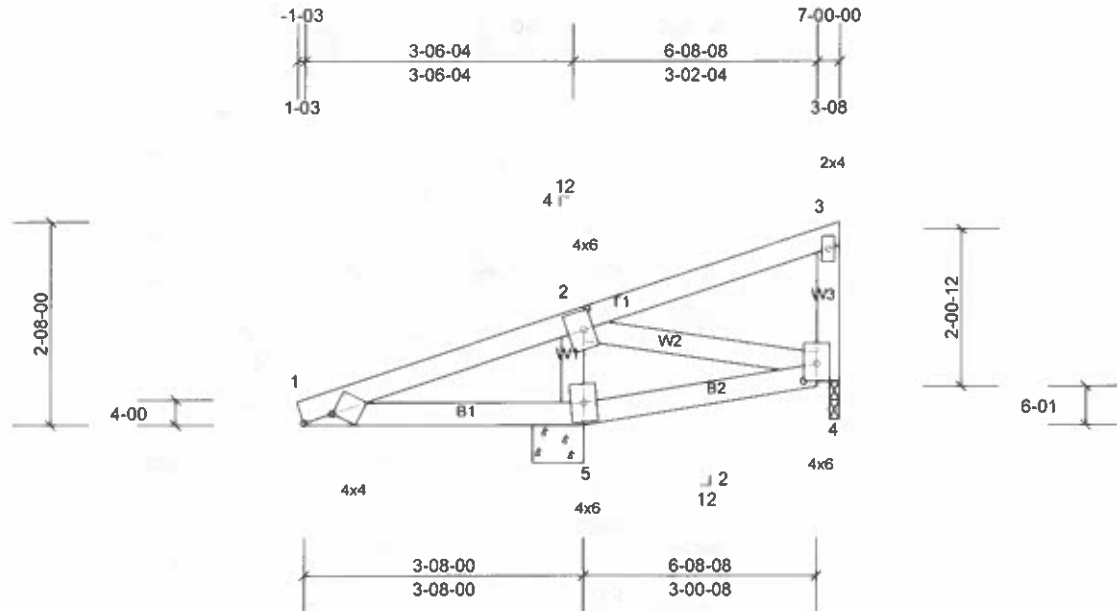
- 1) Wind: ASCE 7-22; Vult=175mph (3-second gust)
Vasd=136mph; HVHZ; TCDL=5.0psf; BCDL=5.0psf;
h=10ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C;
Enclosed; MWFRS (directional) and C-C Zone3 zone;
cantilever left and right exposed; C-C for members and
forces & MWFRS for reactions shown; Lumber
DOL=1.60 plate grip DOL=1.60
- 2) Plates checked for a plus or minus 0 degree rotation about its center.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.

Job 23-37325-1	Truss J7A	Truss Type JACK TR	Qty 4	Ply 1	Job Reference (optional) A0327772
-------------------	--------------	-----------------------	----------	----------	--------------------------------------

Run: 8.82 S Jan 17 2025 Print: 8.820 S Jan 17 2025 MiTek Industries, Inc. Fri Sep 19 15:41:09

Page 1

ID:IK7v7XFaGVNPbwnBARH8y5yfkKs-CH0RGNjwI0uTkFT nnqeJVRrXUDt9qc5mHeFeVyc1ke



Scale = 1/21.8

Plate Offsets (X, Y): [1:3-06,Edge], [2:3-00,1-08], [4:2-11,2-00]

Loading	(psf)	Spacing	2-00-00	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.25	TC	0.69	Vert(LL)	0.02	4-5	>999	240	MT20
TCDL	15.0	Lumber DOL	1.25	BC	0.69	Vert(CT)	0.01	4-5	>999	180	244/190
BCLL	0.0*	Rep Stress Incr	NO	WB	0.62	Horz(CT)	0.01	4	n/a	n/a	
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MP							
Weight: 30 lb FT = 0%											

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-1-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 4-11-14 oc bracing.

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

- 6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1094 lb uplift at joint 5 and 370 lb uplift at joint 4.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 271 lb down and 552 lb up at -0-0-1 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-3=-90, 5-6=-20, 4-5=-20
Concentrated Loads (lb)
Vert: 1=-271

REACTIONS (lb/size) 4=-370/1-08, (min. 1-08),
5=1396/8-00, (min. 1-10)

Max Horiz 5=172 (LC 10)
Max Uplift 4=-370 (LC 1), 5=-1094 (LC 10)
Max Grav 4=249 (LC 10), 5=1396 (LC 1)

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

TOP CHORD 1-2=-2651/1353
BOT CHORD 1-5=-1221/2584, 4-5=-1376/2446
WEBS 2-5=-1101/2097, 2-4=-2477/1380

NOTES

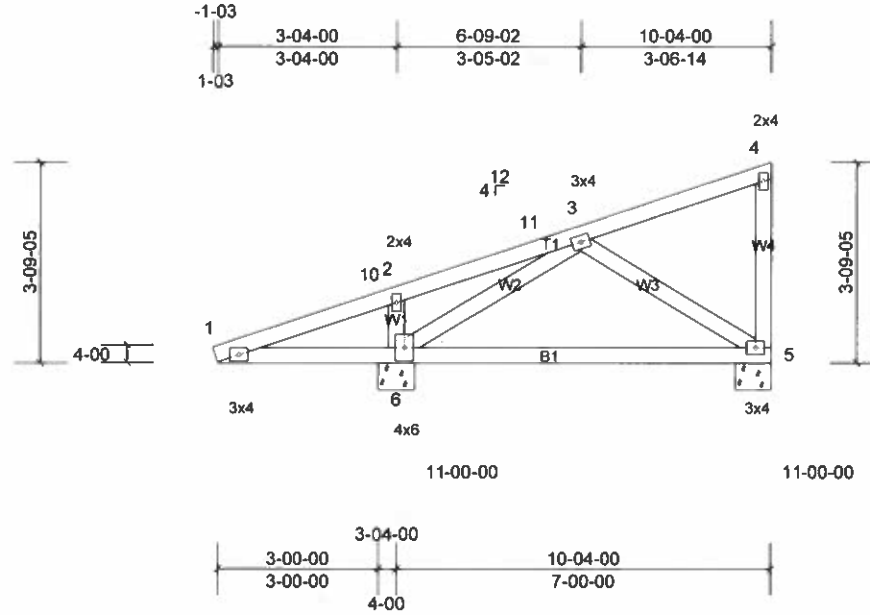
- 1) Wind: ASCE 7-22; Vult=175mph (3-second gust)
Vasd=136mph; HVHZ; TCDL=5.0psf; BCDL=5.0psf;
h=10ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C;
Enclosed; MWFRS (directional) and C-C Zone3 zone;
cantilever left exposed; porch left and right exposed; C-C
for members and forces & MWFRS for reactions shown;
Lumber DOL=1.60 plate grip DOL=1.60
- 2) Plates checked for a plus or minus 0 degree rotation about its center.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
23-37325-1	M1	MONO TR	6	1	A0327773

Run: 8.82 S Jan 17 2025 Print: 8.820 S Jan 17 2025 MiTek Industries, Inc. Fri Sep 19 15:41:09

Page 1

ID:5ZrBLMJi7qwyBVXA9bpWlNyf4jS-CHORGNjwI0uTkFT_nnqeJVRxnUlj9wO5mHeFeVyc1ke



Scale = 1:37.9

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.25	TC	0.29	Vert(LL)	-0.06	5-6	>999	240	MT20	244/190
TCDL	15.0	Lumber DOL	1.25	BC	0.38	Vert(CT)	-0.11	5-6	>728	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.25	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MSH							Weight: 49 lb	FT = 0%

LUMBER		LOAD CASE(S)	Standard
TOP CHORD	2x4 SP No.2		
BOT CHORD	2x4 SP No.2		
WEBS	2x4 SP No.3		

BRACING	
TOP CHORD	Structural wood sheathing directly applied or 6'-0" oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6'-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=287/8'-0", (min. 1'-08), 6=834/8'-0", (min. 1'-08)
	Max Horiz	6=219 (LC 10)
	Max Uplift	5=-133 (LC 10), 6=-473 (LC 10)

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

TOP CHORD	1-10=-866/416, 2-10=-859/425, 2-11=-701/335, 3-11=-691/423
-----------	---

BOT CHORD	1-6=-356/893, 5-6=-258/242
-----------	----------------------------

WEBS	3-5=-271/304, 2-6=-316/498, 3-6=-627/828
------	--

NOTES	
--------------	--

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=175mph (3-second gust) Vasd=136mph; HVHZ; TCDL=5.0psf; BCDL=5.0psf; h=10ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 -0-0-1 to 2-11-15, Zone1 2-11-15 to 5-11-5, Zone2 5-11-5 to 10-2-4 zone; cantilever left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Plates checked for a plus or minus 0 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'-06"-00 tall by 2'-00"-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 133 lb uplift at joint 5 and 473 lb uplift at joint 6.

Job 23-37325-1	Truss S1	Truss Type SCISSOR TR	Qty 9	Ply 1	Job Reference (optional) A0327774
-------------------	-------------	--------------------------	----------	----------	--------------------------------------

Run: 8.82 S Jan 17 2025 Print: 8.820 S Jan 17 2025 MiTek Industries, Inc. Fri Sep 19 15:41:09 Page: 1
ID: 9WJhINEcuM2bVLPs2CuMyByf4NcCH0RGNjw0uTkFT_nngqJVRpeUDV9p95mHeFeVyc1ke

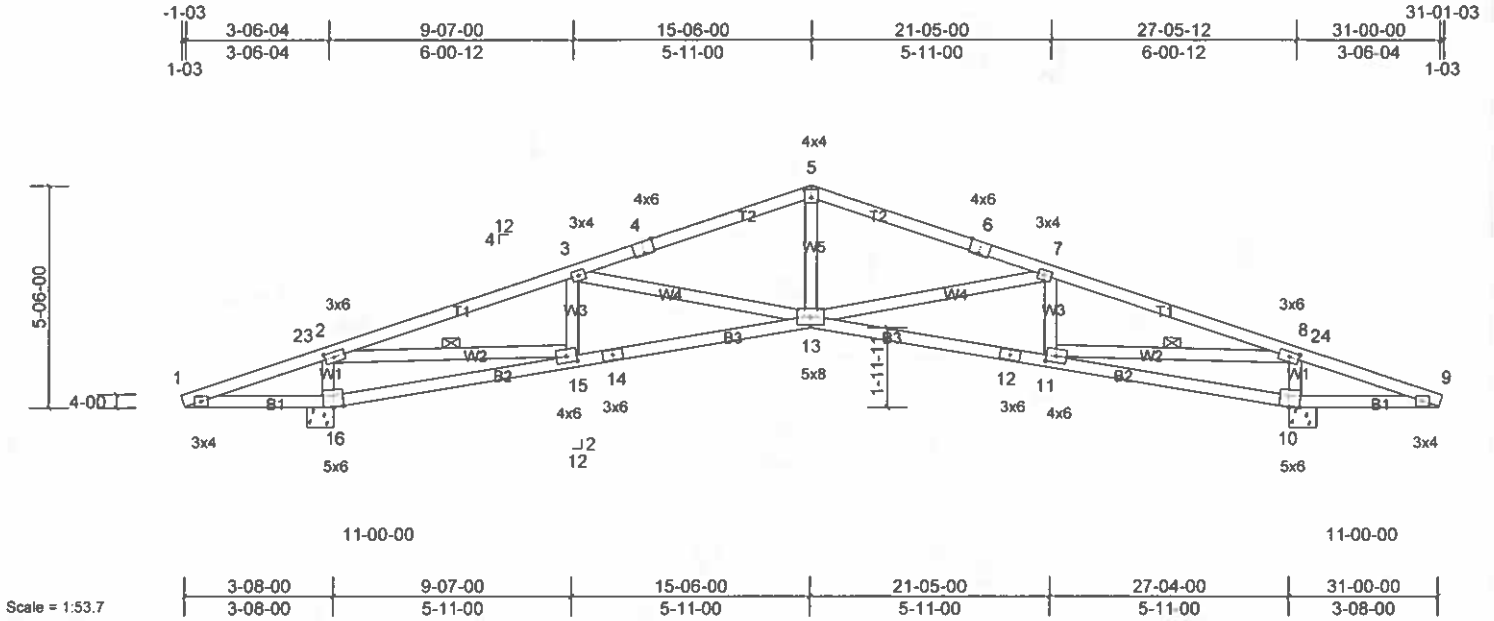


Plate Offsets (X, Y): [2:2-12,1-08], [4:3-00,Edge], [5:2-00,2-08], [6:3-00,Edge], [8:2-12,1-08], [11:3-00,1-12], [15:3-00,1-12]

Loading	(psf)	Spacing	2-00-00	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.25	TC	0.81	Vert(LL)	0.37	13-15	>777	240	244/190
TCDL	15.0	Lumber DOL	1.25	BC	0.65	Vert(CT)	-0.34	11-13	>833	180	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.65	Horz(CT)	0.14	10	n/a	n/a	
BCDL	10.0	Code	FRC2023/TP12014	Matrix-MSH							
Weight: 143 lb FT = 0%											

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except* W2:2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-9-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 3-10-12 oc bracing.
WEBS 1 Row at midpt 8-11, 2-15

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

2) Wind: ASCE 7-22; Vult=175mph (3-second gust)
Vasd=136mph; HVHZ; TCDL=5.0psf; BCDL=5.0psf;
h=10ft; B=45ft; L=31ft, eave=4ft; Cat. II; Exp C;
Enclosed; MWFRS (directional) and C-C Zone3 -0-0-1 to 3-1-2, Zone1 3-1-2 to 11-1-6, Zone2 11-1-6 to 19-10-10, Zone1 19-10-10 to 27-10-14, Zone3 27-10-14 to 31-0-1 zone; cantilever left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Plates checked for a plus or minus 0 degree rotation about its center.
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 3-06-00 tall by 2-00-00 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 1418 lb uplift at joint 16 and 1222 lb uplift at joint 10.

LOAD CASE(S) Standard

REACTIONS (lb/size) 10=1706/8-00, (min. 2-00), 16=1706/8-00, (min. 2-00)
Max Horiz 16=-191 (LC 8)
Max Uplift 10=-1222 (LC 10), 16=-1418 (LC 10)

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

TOP CHORD
1-23=-631/393, 2-23=-625/405, 2-3=-2602/2401, 3-4=-2412/2317, 4-5=-2322/2330, 5-6=-2322/2330, 6-7=-2412/2317, 7-8=-2602/2401, 8-24=-625/405, 9-24=-631/393

BOT CHORD
1-16=-314/660, 15-16=-502/879, 14-15=-2001/2403, 13-14=-1997/2419, 12-13=-1997/2419, 11-12=-2001/2403, 10-11=-502/879, 9-10=-314/660

WEBS
5-13=-960/976, 7-13=-371/360, 7-11=-460/325, 8-11=-2891/2872, 8-10=-1517/1480, 3-13=-371/318, 3-15=-460/325, 2-15=-2891/2872, 2-16=-1517/1480

NOTES

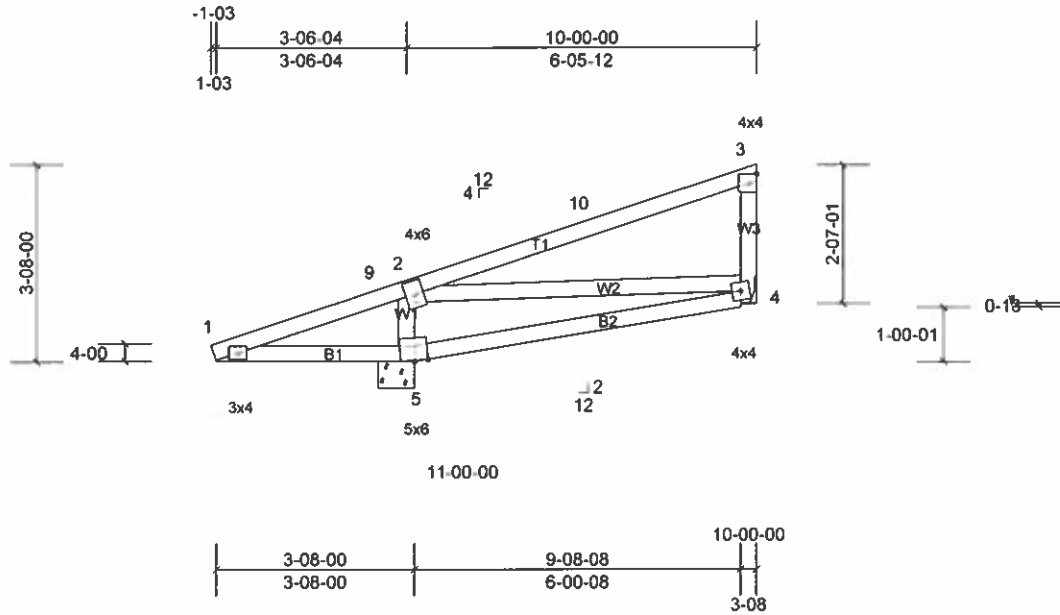
1) Unbalanced roof live loads have been considered for this design.

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)	A0327775
23-37325-1	S2	SPECIAL TR	6	1		

Run: 8.82 S Jan 17 2025 Print: 8.820 S Jan 17 2025 MiTek Industries, Inc. Fri Sep 19 15:41:09

Page: 1

ID: 7o7Q8iiWOX/Qwx96e6ZkMiy4LjCH0RGNjwIDuTkFT_nngeJVRoZUIs9tv5mHeFeVyc1ke



Scale = 1/32

Loading	(psf)	Spacing	2'-00'-00"	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.25	TC	0.88	Vert(LL)	0.13	4-5	>584	240	MT20	244/190
TCDL	15.0	Lumber DOL	1.25	BC	0.37	Vert(CT)	0.10	4-5	>739	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.41	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MSH							Weight: 44 lb	FT = 0%

LUMBER			7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 651 lb uplift at joint 5 and 243 lb uplift at joint 4.		
TOP CHORD	2x4 SP No.2				
BOT CHORD	2x4 SP No.2				
WEBS	2x4 SP No.3		LOAD CASE(S) Standard		

BRACING	
TOP CHORD	Structural wood sheathing directly applied or 2'-2'-0 oc purlins, except end verticals.
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)		4=220/ Mechanical, (min. 1'-08), 5=865/8'-00, (min. 1'-08)
Max Horiz		5=259 (LC 10)
Max Uplift		4=-243 (LC 10), 5=-651 (LC 10)
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown		
TOP CHORD	1-9=-768/357, 2-9=-761/372, 3-4=-231/472	
BOT CHORD	1-5=-275/791, 4-5=-375/372	
WEBS	2-5=-708/1110, 2-4=-538/431	

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-22; Vult=175mph (3-second gust) Vasd=136mph; HVHZ; TCDL=5.0psf; BCDL=5.0psf; h=10ft; B=45ft; L=24ft; eave=4ft. Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 -0-0-1 to 2-11-15, Zone1 2-11-15 to 6-10-4, Zone3 6-10-4 to 9-10-4 zone; cantilever left exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Plates checked for a plus or minus 0 degree rotation about its center.
 - 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'-06'-00 tall by 2'-00'-00 wide will fit between the bottom chord and any other members.
 - 6) Refer to girder(s) for truss to truss connections.



This safety alert symbol is used to attract your attention! **PERSONAL SAFETY IS INVOLVED!** When you see this symbol - **BECOME ALERT - HEED ITS MESSAGE.**



CAUTION: A CAUTION identifies safe operating practices or indicates unsafe conditions that could result in personal injury or damage to structures.



DANGER: A DANGER designates a condition where failure to follow instructions or heed warning will most likely result in serious personal injury or death or damage to structures.



WARNING: A WARNING describes a condition where failure to follow instructions could result in severe personal injury or damage to structures.

HIB-91 Summary Sheet

COMMENTARY and RECOMMENDATIONS for HANDLING, INSTALLING & BRACING METAL PLATE CONNECTED WOOD TRUSSES®



It is the responsibility of the installer (builder, building contractor, licensed contractor, erector or erection contractor) to properly receive, unload, store, handle, install and brace metal plate connected wood trusses to protect life and property. The installer must exercise the same high degree of safety awareness as with any other structural material. TPI does not intend these recommendations to be interpreted as superior to the project Architect's or Engineer's design specification for handling, installing and bracing wood trusses for a particular roof or floor. These recommendations are based upon the collective experience of leading technical

personnel in the wood truss industry, but must, due to the nature of responsibilities involved, be presented as a guide for the use of a qualified building designer or installer. Thus, the Truss Plate Institute, Inc. expressly disclaims any responsibility for damages arising from the use, application or reliance on the recommendations and information contained herein by building designers, installers, and others. Copyright © by Truss Plate Institute, Inc. All rights reserved. This document or any part thereof must not be reproduced in any form without written permission of the publisher. Printed in the United States of America.

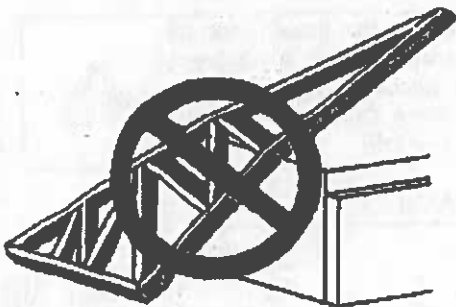


CAUTION: The builder, building contractor, licensed contractor, erector or erection contractor is advised to obtain and read the entire booklet "Commentary and Recommendations for Handling, Installing & Bracing Metal Plate Connected Wood Trusses, HIB-91" from the Truss Plate Institute.

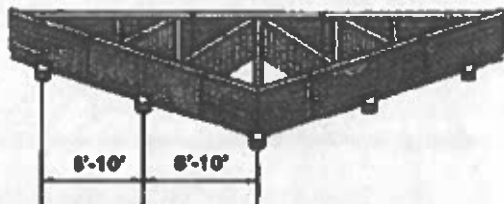


CAUTION: All temporary bracing should be no less than 2x4 grade marked lumber. All connections should be made with minimum of 2-16d nails. All trusses assumed 2' on-center or less. All multi-ply trusses should be connected together in accordance with design drawings prior to installation.

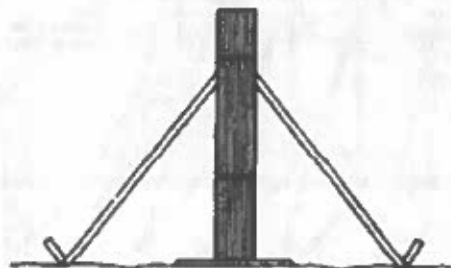
TRUSS STORAGE



CAUTION: Trusses should not be unloaded on rough terrain or uneven surfaces which could cause damage to the truss.



Trusses stored horizontally should be supported on blocking to prevent excessive lateral bending and lessen moisture gain.



Trusses stored vertically should be braced to prevent toppling or tipping.



WARNING: Do not break banding until installation begins or lift bundled trusses by the bands.



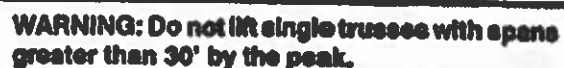
DANGER: Do not store bundles upright unless properly braced.



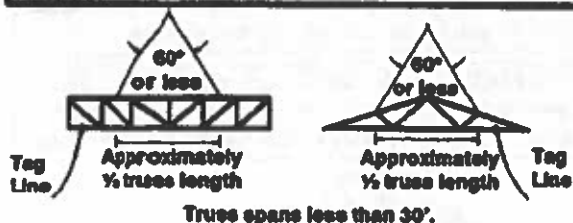
WARNING: Do not use damaged trusses.



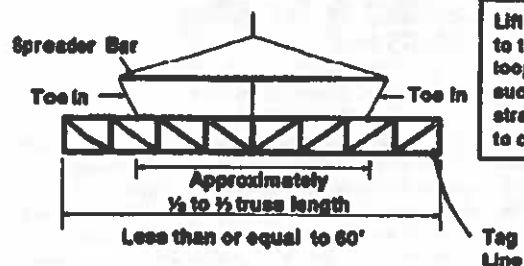
DANGER: Walking on trusses which are lying flat is extremely dangerous and should be strictly prohibited.



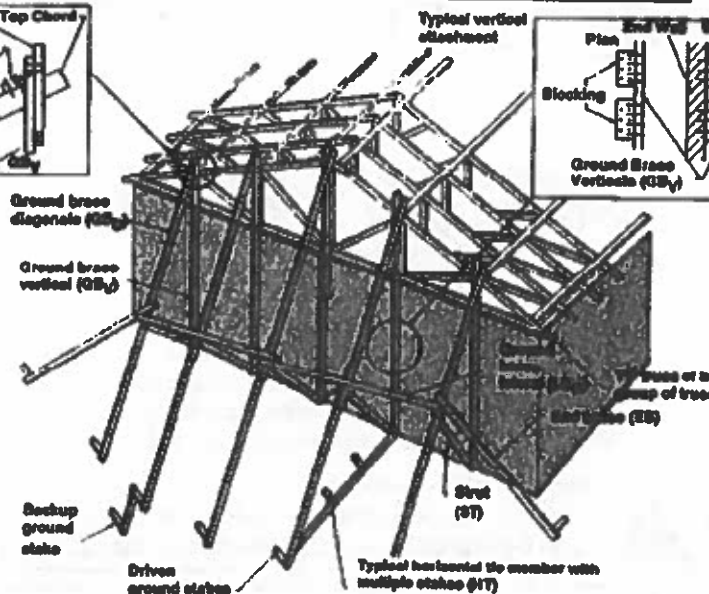
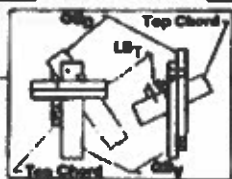
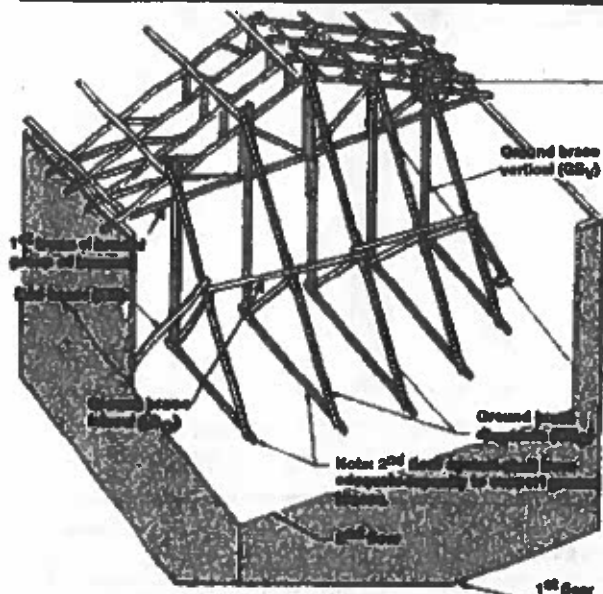
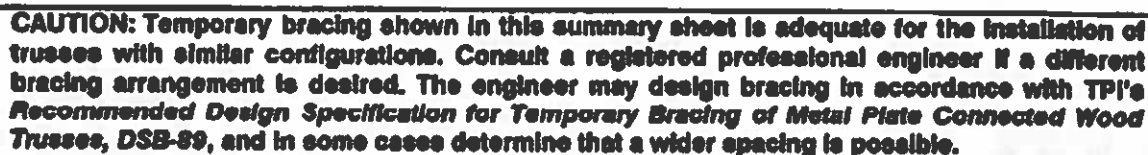
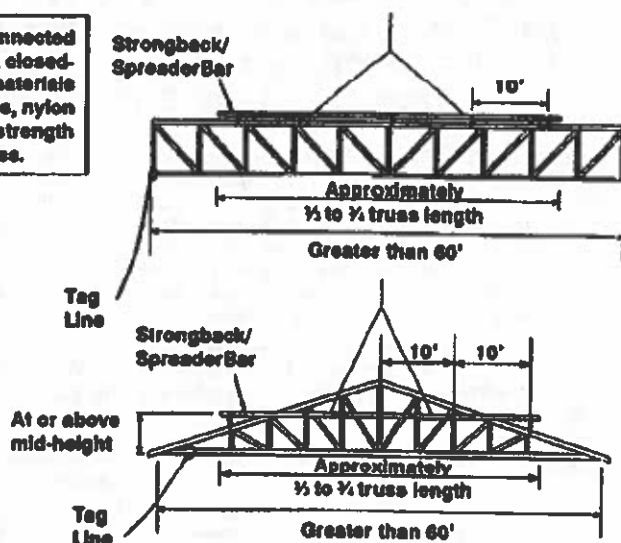
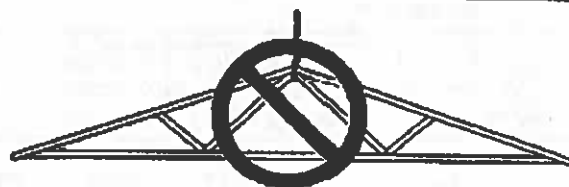
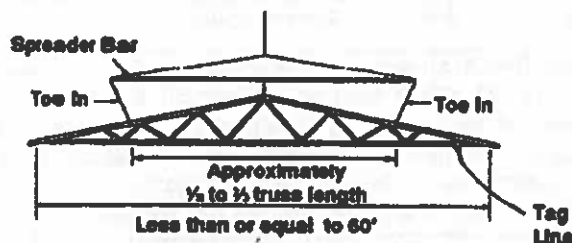
MECHANICAL INSTALLATION

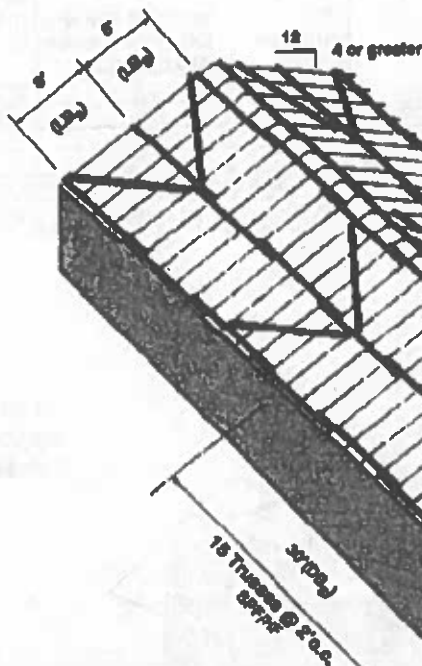


Truss spans less than 30'.



Lifting devices should be connected to the truss top chord with a closed-loop attachment utilizing materials such as slings, chains, cables, nylon strapping, etc. of sufficient strength to carry the weight of the truss.



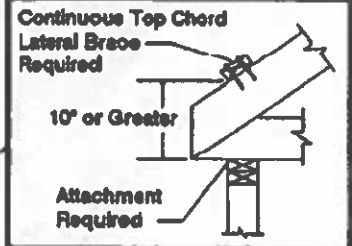


SPAN	MINIMUM PITCH	TOP CHORD LATERAL BRACE SPACING (LB _s)	TOP CHORD DIAGONAL BRACE SPACING (DB _s) (# trusses)	
			SP/DF	SPP/HP
Up to 22'	4/12	8'	20	15
Over 22' - 42'	4/12	6'	10	7
Over 42' - 60'	4/12	6'	6	4
Over 60'	See a registered professional engineer			

DF - Douglas Fir-Larch
HP - Hem-Fir

SP - Southern Pine
SPP - Spruce-Pine-Fir

All lateral braces lapped at least 2 trusses.



Top chords that are laterally braced can buckle together and cause collapse if there is no diagonal bracing. Diagonal bracing should be nailed to the underside of the top chord when purlins are attached to the topside of the top chord.

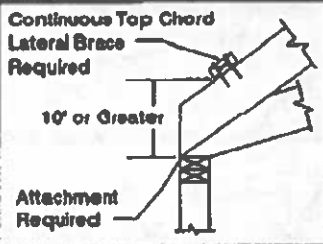
PITCHED TRUSS

WARNING: Failure to follow these recommendations could result in severe personal injury or damage to trusses or buildings.

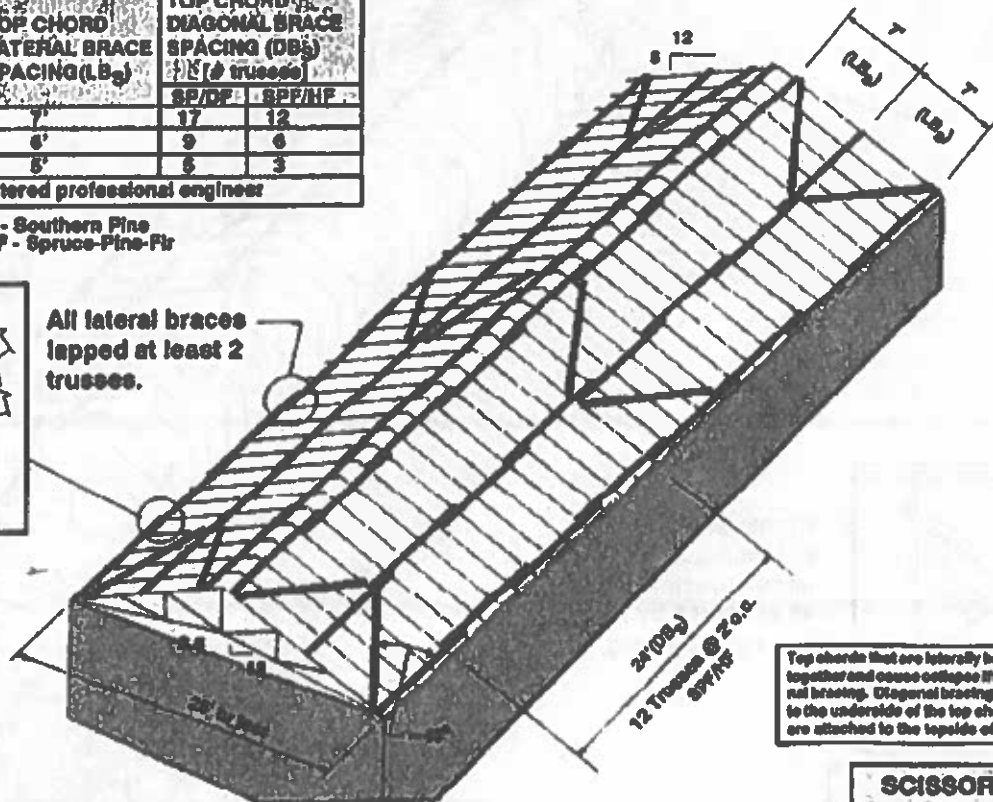
SPAN	MINIMUM PITCH DIFFERENCE	TOP CHORD LATERAL BRACE SPACING (LB _s)	TOP CHORD DIAGONAL BRACE SPACING (DB _s) (# trusses)	
			SP/DF	SPP/HP
Up to 28'	2.5	7'	17	12
Over 28' - 42'	3.0	6'	9	6
Over 42' - 60'	3.0	6'	6	3
Over 60'	See a registered professional engineer			

DF - Douglas Fir-Larch
HP - Hem-Fir

SP - Southern Pine
SPP - Spruce-Pine-Fir



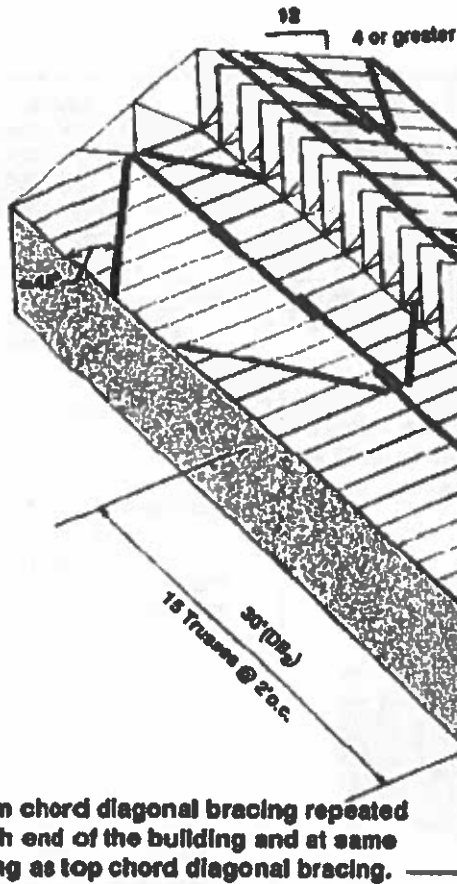
All lateral braces lapped at least 2 trusses.



Top chords that are laterally braced can buckle together and cause collapse if there is no diagonal bracing. Diagonal bracing should be nailed to the underside of the top chord when purlins are attached to the topside of the top chord.

SCISSORS TRUSS

Frame 3



SPAN	MINIMUM PITCH	BOTTOM CHORD LATERAL BRACE SPACING (LB _g)	BOTTOM CHORD DIAGONAL BRACE SPACING (DB _g) (# trusses)	
			SP/DF	SPF/HF
Up to 32'	4/12	15'	20	15
Over 32' - 48'	4/12	15'	10	7
Over 48' - 60'	4/12	15'	6	4
Over 60'	See a registered professional engineer			

DF - Douglas Fir-Larch
HF - Hem-Fir

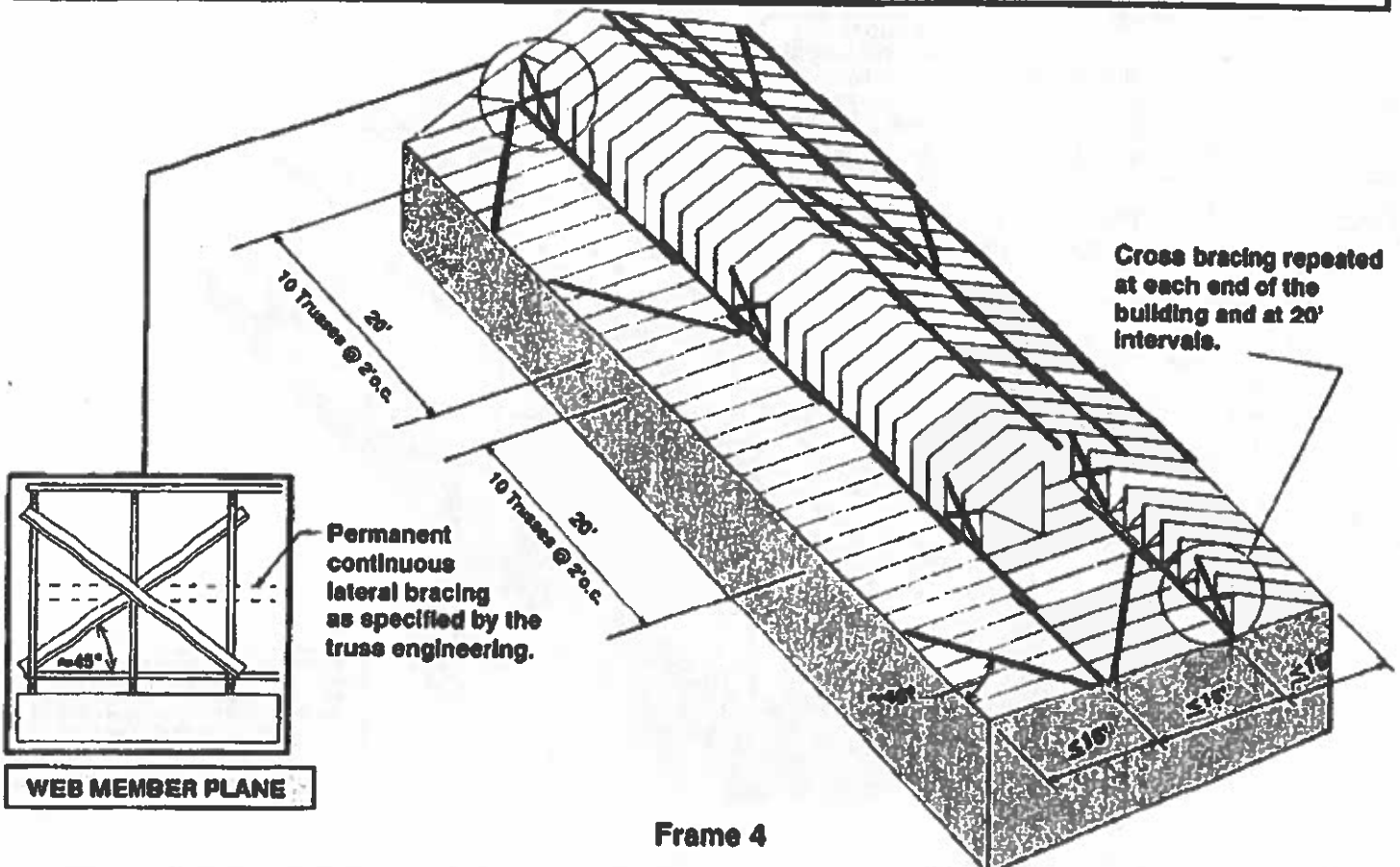
SP - Southern Pine
SPF - Spruce-Pine-Fir

All lateral braces
lapped at least 2
trusses.

BOTTOM CHORD PLANE



WARNING: Failure to follow these recommendations could result in severe personal injury or damage to trusses or buildings.



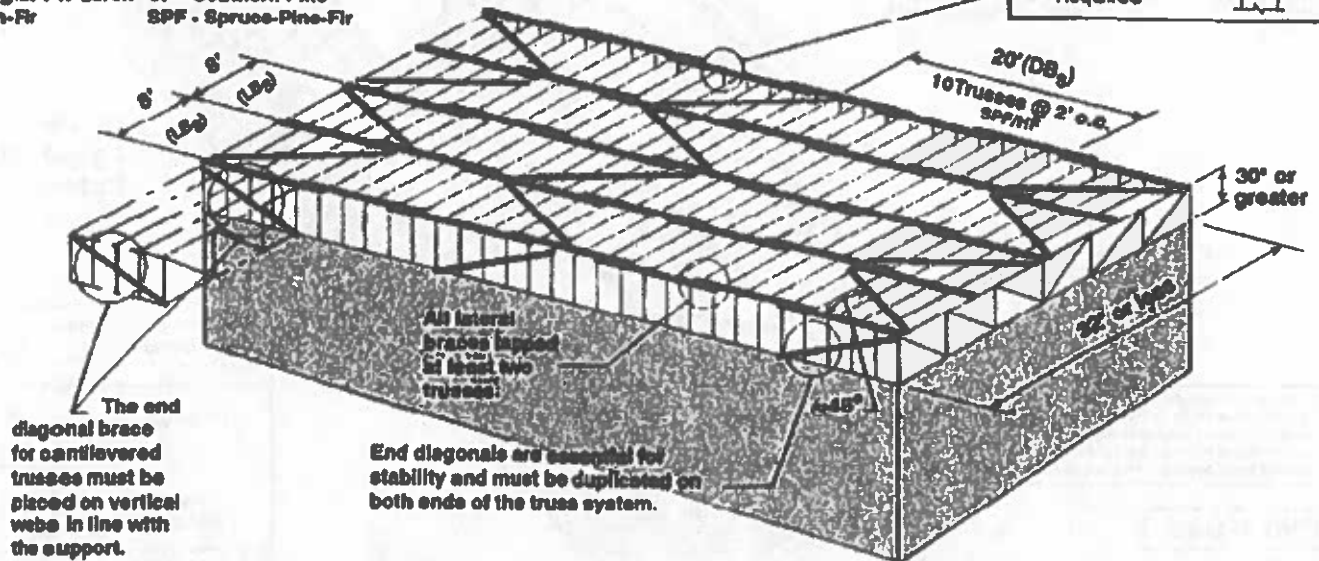
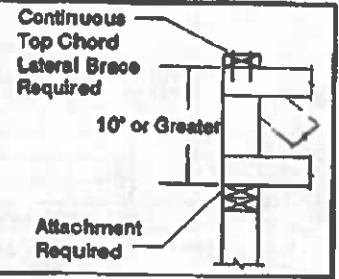
Frame 4

SPAN	MINIMUM DEPTH	TOP CHORD LATERAL BRACE SPACING (LB _s)	TOP CHORD DIAGONAL BRACE SPACING (DB _s) (# trusses)	
			SP/DF	SPF/HF
Up to 32'	30"	8'	16	10
Over 32' - 48'	42"	6'	6	4
Over 48' - 60'	48"	5'	4	2
Over 60'	See a registered professional engineer			

DF - Douglas Fir-Larch SP - Southern Pine
HF - Hem-Fir SPF - Spruce-Pine-Fir

2x4/2x6 PARALLEL CHORD TRUSS

Top chords that are laterally braced can buckle together and cause collapse if there is no diagonal bracing. Diagonal bracing should be nailed to the underside of the top chord when purlins are attached to the top side of the top chord.

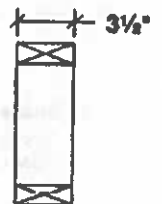
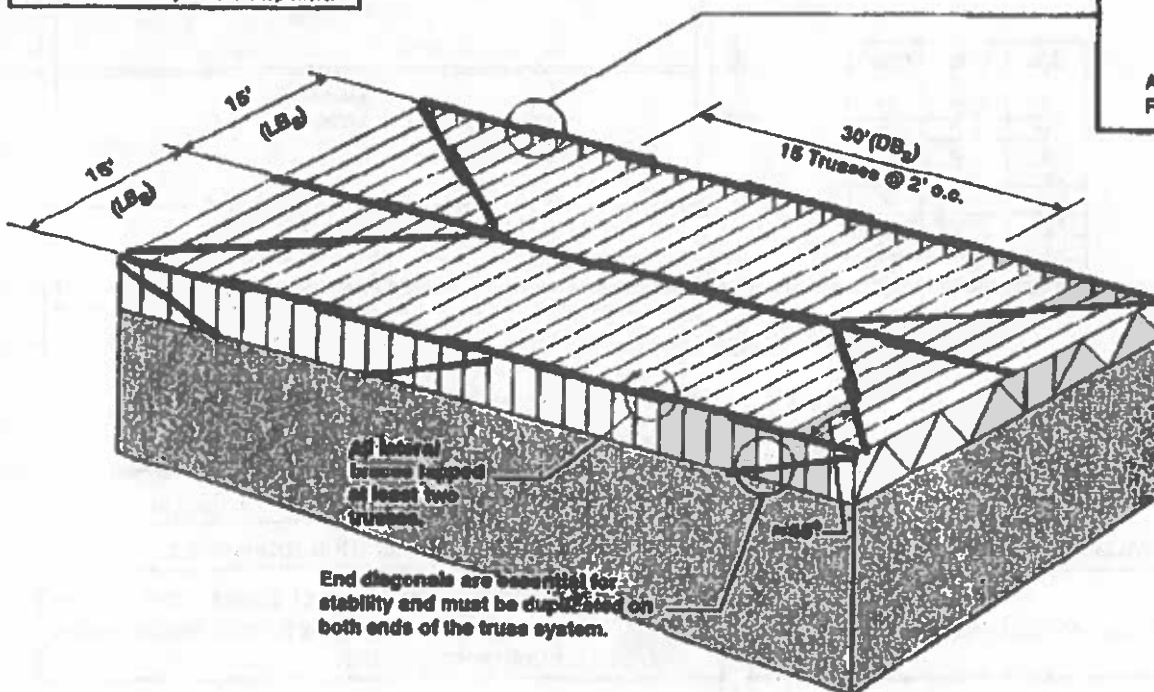
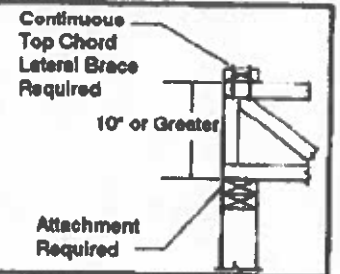


WARNING: Failure to follow these recommendations could result in severe personal injury or damage to trusses or buildings.



4x2 PARALLEL CHORD TRUSS: TOP CHORD

Top chords that are laterally braced can buckle together and cause collapse if there is no diagonal bracing. Diagonal bracing should be nailed to the underside of the top chord when purlins are attached to the top side of the top chord.



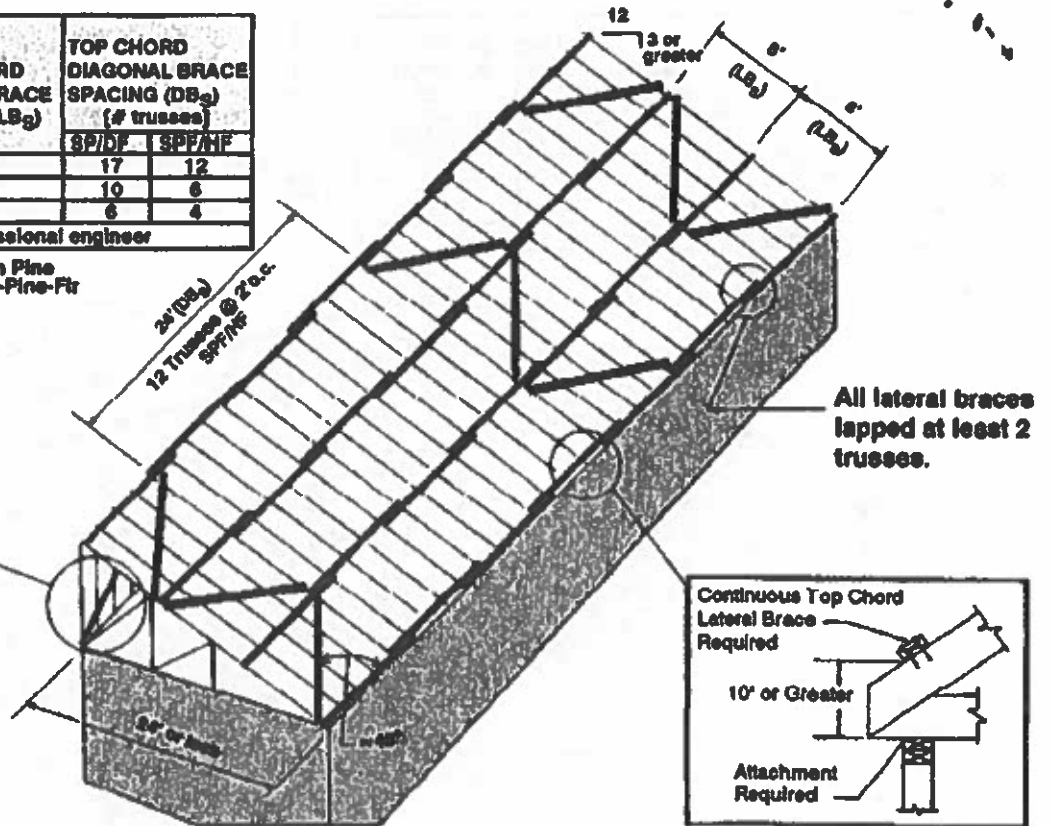
Trusses must have lumber oriented in the horizontal direction to use this brace spacing.

Frame 5

SPAN	MINIMUM PITCH	TOP CHORD LATERAL BRACE SPACING (LB ₂)	TOP CHORD DIAGONAL BRACE SPACING (DB ₂) (# trusses)	
			SP/DF	SPF/HF
Up to 24'	3/12	8'	17	12
Over 24' - 42'	3/12	7'	10	6
Over 42' - 54'	3/12	6'	6	4
Over 54'	See a registered professional engineer			

DF - Douglas Fir-Larch
HF - Hem-Fir

SP - Southern Pine
SPF - Spruce-Pine-Fir

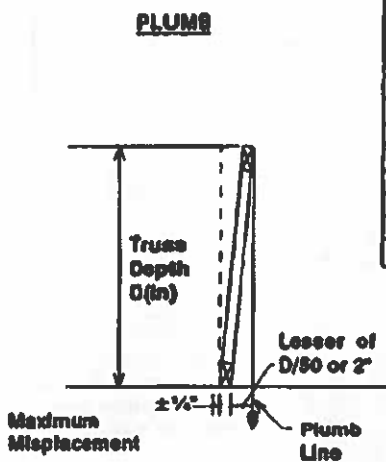


Top chords that are laterally braced can buckle together and cause collapse if there is no diagonal bracing. Diagonal bracing should be nailed to the underside of the top chord when purlins are attached to the topside of the top chord.

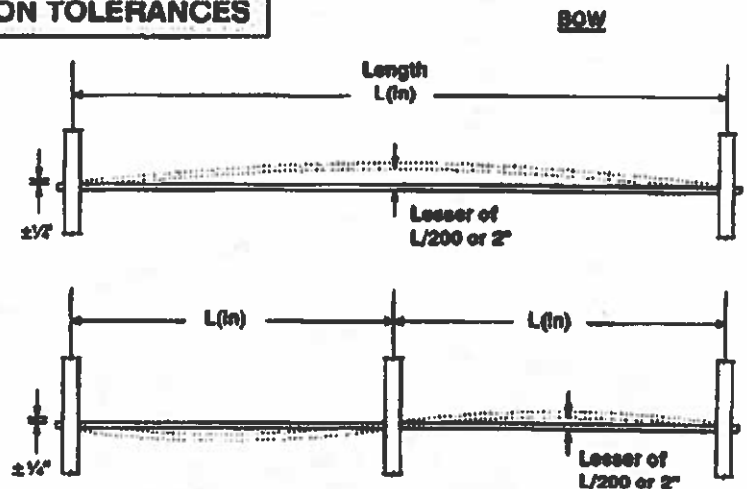
MONO TRUSS

WARNING: Failure to follow these recommendations could result in severe personal injury or damage to trusses or buildings.

INSTALLATION TOLERANCES



D(in)	D/50	D(ft)
12"	1/4"	1'
24"	1/2"	2'
36"	3/4"	3'
48"	1"	4'
60"	1-1/4"	5'
72"	1-1/2"	6'
84"	1-3/4"	7'
96"	2"	8'
108"	2"	9'



L(in)	L/200	L(ft)
50"	1/4"	4.2'
100"	1/2"	8.3'
150"	3/4"	12.5'

L(in)	L/200	L(ft)
200"	1"	16.7'
250"	1-1/4"	20.8'
300"	1-1/2"	25.0'

OUT-OF-PLUMB INSTALLATION TOLERANCES.

OUT-OF-PLANE INSTALLATION TOLERANCES.

WARNING: Do not cut trusses.

DANGER: Under no circumstances should construction loads of any description be placed on unbraced trusses.

PLATES ARE MITEK M20-249,200 MANUFACTURED FROM ASTM A 486 GRD A GALVANIZED STEEL (EXCEPT AS SHOWN) PLATE MUST BE INSTALLED ON EA. FACE OF JOINT SYMMETRICAL (EXCEPT AS SHOWN) DESIGN CONFORMS W/ NDS SPECS. FBC 2023. THIS DESIGN IS FOR TRUSS FABRICATION ONLY. FOR PERMANENT BRACING (WHICH IS ALWAYS REQD.) CONSULT BLDG. ARCHITECT.

OVERHANG DETAILS

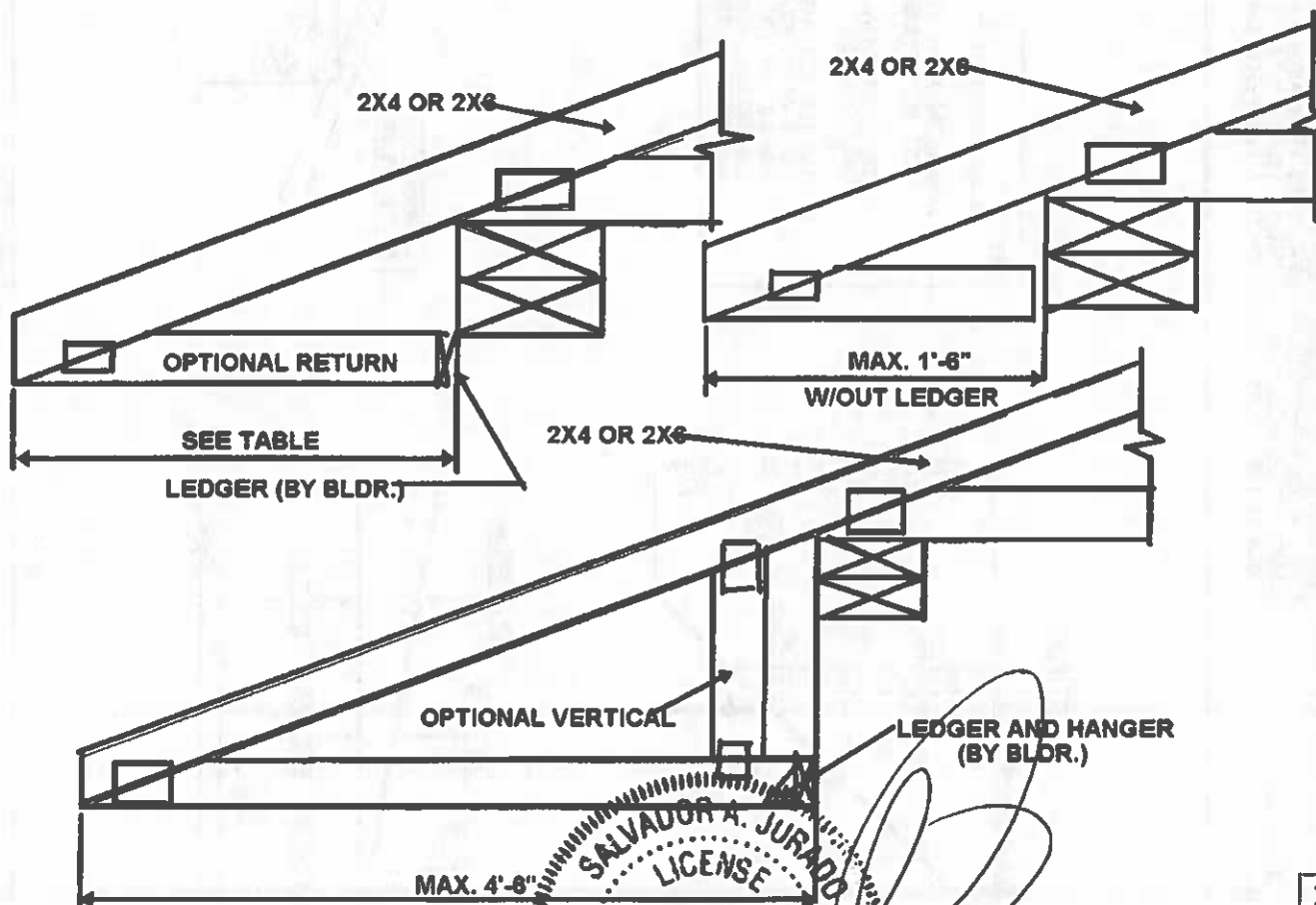
MAXIMUM OVERHANG		
GRADE OF LUMBER	2X4	2X6
# 2 SO.PINE	2'-0"	3'-2"
S.S. SO.PINE	2'-2"	3'-4"

NOTES:

A) ALL CONNECTORS SPEC. MUST BE INSTALLED PER MFG. SPECIFICATIONS.

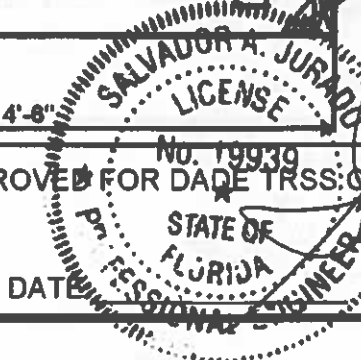
C) FOR TRUSS DATA, LUMBER, PLATES, ETC. REFER TO INDIVIDUAL ENG. DRAWINGS.

D) THIS HAS BEEN DESIGNED FOR THE LOADS GENERATED BY 175 MPH. WINDS AT 25' ABOVE GROUND LEVEL ASCE 7-10 COMPONENTS AND CLADDING AND 7.0 PSF TOP CHORD AND 3.0 PSF BOTTOM CHORD DEAD LOAD ARE BEING USED. THE DESIGN ASSUMES OCCUPANCY CATEGORY II, TERRAIN EXPOSURE C AND INTERNAL PRESSURE COEFFICIENT CONDITION I.



DADE TRUSS
Company Inc.
6401 N.W. 74 AVE MIAMI, FLA. 33166
DADE (305) 592-8245 BROWARD (305) 462-8888
WATTS: 1-800-368-7842 FAX: (305) 477-9082

APPROVED FOR DADE TRUSS CO. INC.

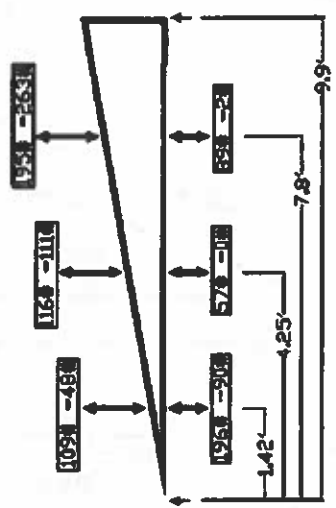
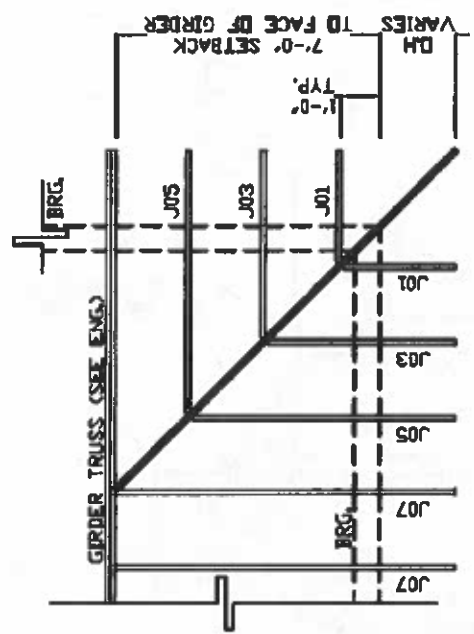


DATE

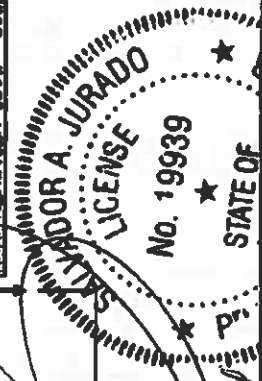
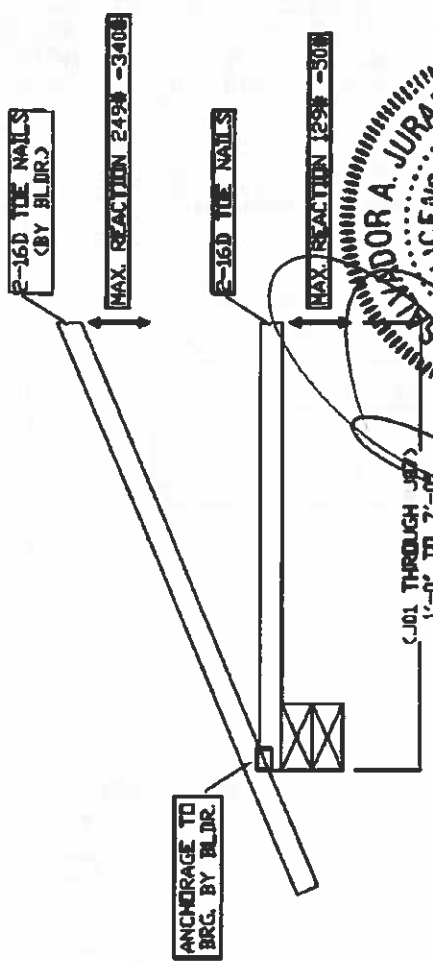
DES. BY : MM
CHECKED BY : SJ
DATE : 01/24/24
DRAWING : MM
JOB No. :

MEDIUM GRADE OF LUMBER
2x4 SYP. No. 2SP

PLATES ARE MITEK HD2-249,200 MANUFACTURES FROM ASTM A 466 GRD A GALVANIZED STEEL (EXCEPT AS SHOWN)
PLATES MUST BE INSTALLED ON EA. FACE OF JOINT SYMMETRICALLY (EXCEPT AS SHOWN) DESIGN CONFORMS W/NDIS SPECS. FBC 2023
THIS DESIGN IS FOR TRUSS FABRICATION ONLY. FOR PERMANENT BRACING (WHICH IS ALWAYS REQ'D.) CONSULT BLDG. ARCHITECT



- NOTES:**
- A) ALL CONNECTORS SPEC. MUST BE INSTALLED PER MFG. SPECIFICATIONS.
 - B) HANGERS REQ'D FOR TRUSSES LESS THAN 12'-0" SPAN (UNDER 650# REACTIONS) MUST BE SUPPLIED BY BLDG.
 - C) FOR TRUSS DATA, LUMBER, PLATES AND REACTIONS ETC., REFER TO INDIVIDUAL ENG. DRAWINGS.
 - D) THIS HOP SET HAS BEEN DESIGNED FOR THE LOADS GENERATED BY 175MPH WINDS AT 25 FT. ABOVE GROUND LEVEL. ASCE 7-10 COMPONENTS AND CLADDING AND 9.0 PSF TOP CHORD AND 6.0 PSF BOT. CHORD DEAD LOAD ARE BEING USED. THE DESIGN ASSUMES OCCUPANCY CATEGORY II, TERRAIN EXPOSURE C EXTERIOR AND INTERNAL PRESSURE COEFFICIENT CONDITION I.



LOADING (PSF) TOP LIVE : 30 TOP DEAD : 15 BOTTOM : 10 TOTAL : 55 STR. INC. : 1.33	JACK DETAIL (7'-0" SETBACK)	 DADE TRUSS Company Inc. 6401 N.W. 74 AVE. MIAMI, FLA. 33156 DADE (200) 562-5245 BROWARD (200) 462-4600
APPROVED FOR MADE TRUSS FABRICATION DATE: 01/24/24 DRAWING JOB NO.		
6		

The HUS, JUS and MUS hanger series offers double shear nailing. MiTek's dimple allows for 30° to 45° nailing through the joist into the header resulting in higher loads and less nailing. Slant nailing allows for higher load values, fewer nails, and faster installation.

Materials: JUS – 18 gauge; MUS – 18 gauge; HUS – 14 or 16 gauge

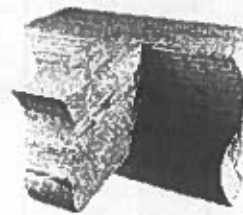
Finish: G90 galvanizing

Options: See chart for Corrosion Finish Options. See HUS Specialty Options Chart.

Codes: IBC, FL, LA

Installation:

- Use all specified fasteners. See Product Notes, page 18.
- Joist nails must be driven at a 30° to 45° angle through the joist or truss into the header to achieve listed loads. Slant/double shear nails must be used to achieve listed load values.
- JUS & MUS – 16d sinkers (0.148" x 3-1/4") may be used where 10d commons are specified with no load reduction.



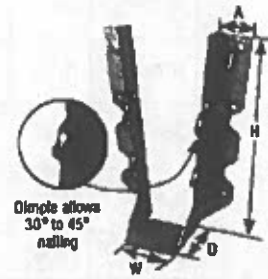
Typical HUS46 installation



Typical JUS26 installation



HUS28-2

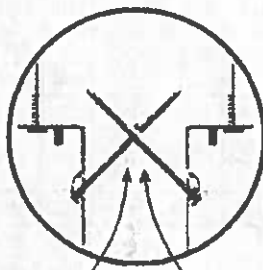


JUS28



MUS

AVAILABLE IN
GOLD
COAT



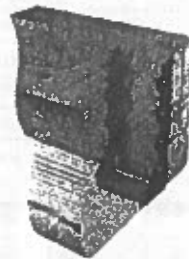
Double shear nail design features fewer nails and faster installation

Uses standard length common nails

HUS Specialty Options Chart

Refer to Specialty Options pages 320-321 for additional details.

Option	Specialty Options
Range	Not available in widths less than 2-1/4"
Allowable Loads	100% of table load. 85% of table load when nailing into the support members end grain.
Ordering	Add IF to product number. Ex. HUS410_IF



Typical HUS410IF inverted flange installation

Face Mount Hangers - DF/SP Allowable Loads

Hangers

Joint Size	MiTek USP Stock No.	Ref. No.	Steel Gauge	Dimensions (in)				Min/Max	Fastener Schedule ¹				DF/SP Allowable Loads (lbs.) ²				Notes
				W	H	D	A		Header		Joist		Allowable Loads (lbs.) ²				
									Qty	Type	Qty	Type	Floor	Roof	Light		
																100%	
2 x 4	JL24	LU24	20	1-9/16	3	1-1/2	15/16	--	4	10d 16d	2	10d x 1-1/2	470 590	540 640	580 685	280	
	JL24F-TZ	--	18	1-9/16	3-1/8	1-1/2	--	--	4	10d HDG 16d HDG	2	10d x 1-1/2 HDG	485 550	535 615	580 615	280	
	JUS24	LUS24	18	1-9/16	3-1/8	1-3/4	1	--	4	10d	2	10d	675	775	835	680	
	SUH24	U24	16	1-9/16	3-1/4	2	1-3/16	--	4	10d 16d	2	10d x 1-1/2	500 580	580 665	605 720	360	
	HD26	HU26	14	1-9/16	3-1/2	2-1/2	1-1/8	Min Max	4	16d	2 4	10d x 1-1/2	615	685	745	335 585	
2 x 6	JL26	LU26	20	1-9/16	4-3/4	1-1/2	15/16	--	6	10d 16d	4	10d x 1-1/2	710 840	805 980	870 1045	600	
	JL26F-TZ	LUC26Z	18	1-9/16	4-1/2	1-1/2	--	--	6	10d HDG 16d HDG	4	10d x 1-1/2 HDG	685 830	800 950	870 1035	730	
	JUS26	LUS26	18	1-9/16	4-13/16	1-3/4	1	--	4	10d	4	10d	870	1000	1080	1050	
	MUS26	MUS26	18	1-9/16	5-1/16	2	1	--	6	10d	6	10d	1285	1475	1605	865	
	SUH26	U26	16	1-9/16	5-1/8	2	1-3/16	--	6	10d 16d	4	10d x 1-1/2	750 880	840 1000	910 1080	755	
	HUS26	HUS26	16	1-5/8	5-7/16	3	2	--	14	16d	6	16d	2780	3140	3400	2045	
	HD28	HU28	14	1-9/16	5-1/2	2-1/2	1-1/8	Min Max	4	16d	2 4	10d x 1-1/2	615	685	745	335 585	
2 x 8	JL28	LU28	20	1-9/16	4-3/4	1-1/2	15/16	--	6	10d 16d	4	10d x 1-1/2	710 840	805 980	870 1045	600	
	JL28F-TZ	LUC26Z	18	1-9/16	4-1/2	1-1/2	--	--	6	10d HDG 16d HDG	4	10d x 1-1/2 HDG	685 830	800 950	870 1035	730	
	JL28	LU28	20	1-9/16	6-3/8	1-1/2	15/16	--	10	10d 16d	6	10d x 1-1/2	1180 1400	1345 1800	1450 1740	815	
	JL28F-TZ	--	18	1-9/16	6-1/8	1-1/2	--	--	8	10d HDG 16d HDG	4	10d x 1-1/2 HDG	930 1105	1065 1215	1160 1215	730 875	
	JUS28	LUS26	18	1-9/16	4-13/16	1-3/4	1	--	4	10d	4	10d	870	1000	1080	1050	
	JUS28	LUS28	18	1-9/16	6-5/8	1-3/4	1	--	6	10d	4	10d	1110	1270	1375	1080	
	MUS26	MUS26	18	1-9/16	5-1/16	2	1	--	6	10d	6	10d	1285	1475	1605	865	
	MUS28	MUS28	18	1-9/16	7-1/16	2	1	--	8	10d	8	10d	1710	1970	2140	1230	
	SUH26	U26	16	1-9/16	5-1/8	2	1-3/16	--	6	10d 16d	4	10d x 1-1/2	750 880	840 1000	910 1080	755	
	SUH28	--	16	1-9/16	6-5/8	2	1-3/16	--	8	10d 16d	6	10d x 1-1/2	1090 1175	1120 1335	1210 1440	875	
	HUS26	HUS26	16	1-5/8	5-7/16	3	2	--	14	16d	6	16d	2780	3140	3400	2045	
	HUS28	HUS28	16	1-5/8	7-3/16	3	2	--	22	16d	8	16d	4170	4745	5120	2980	
	HD28	HU28	14	1-9/16	5-1/4	2-1/2	1-1/8	--	8	16d	6	10d x 1-1/2	1230	1380	1480	780	
	HD210	HU210	14	1-9/16	7-3/16	2-1/2	1-1/8	Min Max	10 14	16d	4 8	10d x 1-1/2	1540 2155	1735 2430	1865 2610	780 1170	

- 1) Uplift loads have been increased 60% for wind or seismic loads; no further increase shall be permitted.
2) For JUS, HUS, and MUS hangers: Nails must be driven at a 30° to 45° angle through the joist or truss into the header to achieve the table loads.
3) NAILS: 10d x 1-1/2 nails are 0.148" dia. x 1-1/2" long, 10d nails are 0.148" dia. x 3" long, 16d nails are 0.182" dia. x 3-1/2" long.
New products or updated product information are designated in blue font.

Corrosion Finish ■ Stainless Steel ■ Gold Coat ■ HDG ■ Triple Zinc

Continued on next page



HHC / HJC / HJHC / HTHJ Hip/Jack Connectors

Plated Truss

HHC – Designed to support hip/hip truss/rafter. Contact MiTek when using in multi-ply applications

HJHC – Allows for hip/hip support and hip/jack/hip installations

HJC / HTHJ – Used to simultaneously hang a combination of hips and jacks off girder trusses. These hangers fit both left-hand and right-hand applications. An open back design allows for retrofit installations

Materials: HHC/HJC/HJHC – 12 gauge, HTHJ –18 gauge

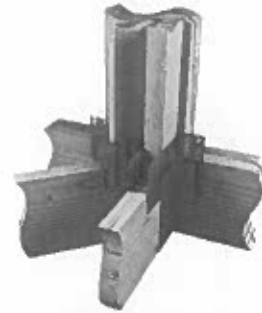
Finish: G90 galvanizing

Options: See HJC Specialty Options Table below

Codes: See table for code references

Installation:

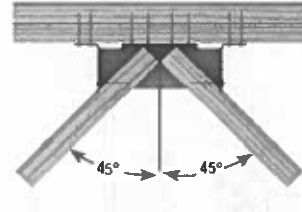
- Install the required fasteners according to the table.



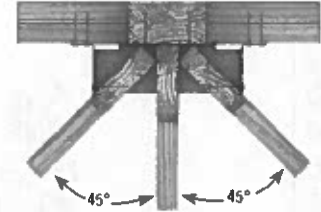
Typical HJC/HTHJ installation



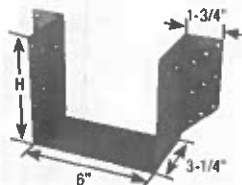
Typical HJC/HTHJ installation top view



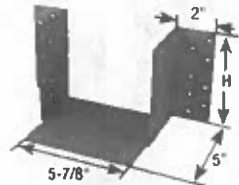
Typical HHC installation top view



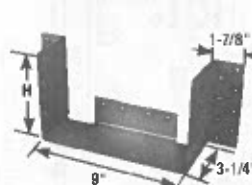
Typical HJHC installation top view



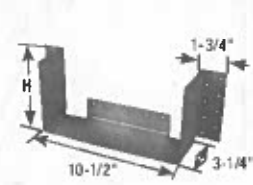
HJC



HTHJ



HHC



HJHC

Description	MITek Stock No.	Ref. No.	Steel Gauge	H (In)	Fastener Schedule ³					DF/SP				S-P-F				Code Ref.
					Supporting Member		Supported Member			Allowable Loads (Lbs.) ²				Allowable Loads (Lbs.) ²				
							per Hip	per Jack		Floor	Roof	Uplift ¹	Floor	Roof	Uplift ¹			
Qty	Type	Qty	Qty	Type	100%	115%	125%	160%	100%	115%	125%	160%						
2 x 6 right / left	HJC26	LTHJA26, THJA26, THJU26	12	5-3/8	16	16d	5	7	10d	2750	3055	3285	2345	2420	2685	2750	1905	IBC, FL, LA
2 x 8 right / left	HJC28	--	12	7-1/8	20	16d	6	8	10d	3385	3385	3385	2345	2760	2760	2760	1910	
2 x 6 terminal	HHC26	LTHJA26, THJA26	12	5-7/8	20	16d	5	--	10d	3100	3505	3505	2130	2725	2800	2800	1870	
2 x 8 terminal	HHC28	--	12	7-3/16	24	16d	6	--	10d	3505	3505	3505	2410	2805	2805	2805	1930	
2 x 6 terminal	HJHC26	--	12	5-7/8	20	16d	5	2	10d	3100	3505	3505	2410	2725	2815	2815	1935	
2 x 8 terminal	HJHC28	--	12	7-3/16	24	16d	6	2	10d	3505	3505	3505	2410	2820	2820	2820	1940	
2 x 6 terminal	HTHJ26-18	--	18	5	16	16d	7	5	16d	2295	2605	2695	1790	1985	2110	2110	1225	

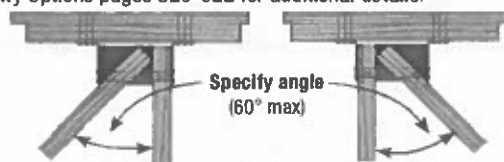
1) Uplift loads have been increased 60% for wind or seismic loads; no further increase shall be permitted.

2) Table values are the total load of hip/jack combined, and assume that the allowable download and uplift of a single member are no more than 75% of the total hanger capacity.

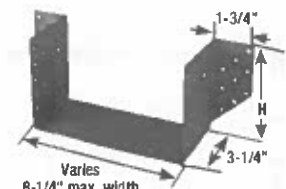
3) NAILS: 10d nails are 0.148" dia. x 3" long, 16d nails are 0.162" dia. x 3-1/2" long.

HJC Specialty Options Table – Refer to Specialty Options pages 320-322 for additional details.

Option	Hip Truss Skew
Range	30° to 60°
Allowable Loads	100% of table load
Ordering	Add SK, angle of hip required, to product number. Ex. HJC26_SK55



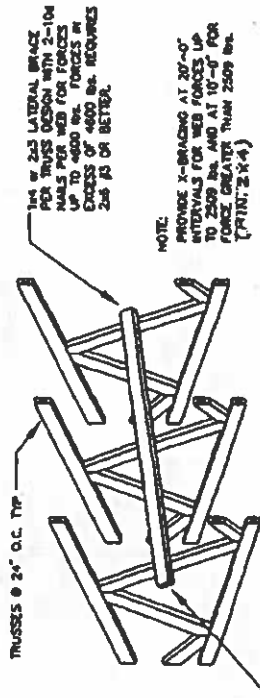
Typical HJC (skewed) installation with alternate skew angle top view



HJC (skewed)

Minimum Grade Of Lumber
2X4 Syp. No. 2SP

PLATES ARE MITEK M20-249.200 MANUFACTURED FROM ASTM A 466 GRD A GALVANIZED STEEL (EXCEPT AS SHOWN)
PLATE MUST BE INSTALLED ON EA. FACE OF JOINT SYMMETRICALLY (EXCEPT AS SHOWN) DESIGN CONFORMS W/ NDS SPECS, FBC 2023
THIS DESIGN IS FOR TRUSS FABRICATION ONLY. FOR PERMANENT BRACING (WHICH IS ALWAYS REQD.) CONSULT BLDG. ARCHITECT

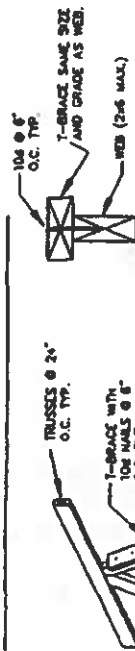


NOTE:
PROVIDE X-BRACING AT 20'-0" INTERVALS FOR WEB FORCES UP TO 2500 LB. AND AT 10'-0" FOR FORCE GREATER THAN 2500 LB. (MIN. 2' X 4')

END OF BRACING MEMBER SHALL BE CONNECTED TO A FIXED BASE POINT OR X-BRACED AS NOTED ON THIS DETAIL

LATERAL BRACING DETAIL

ALT. LATERAL BRACING DETAIL



WEB SECTION DETAIL

NOTE:
BRACE MUST BE BOX THE LENGTH OF THE WEB
THIS DETAIL IS TO BE USED AS AN ALTERNATE FOR CONTINUOUS LATERAL BRACING

LATERAL BRACING DETAIL



DADE TRUSS
Company Inc.
8401 N.W. 74 AVE. MIAMI, FL 33166
DADE (305) 362-6045 MIAMI (305) 443-4488
MIAMI (305) 362-6045 FAX (305) 477-8082

APPROVED FOR DADE TRUSS CO. INC.
DATE: 1/24/24
DES. BY: MM
CHECKED BY: SJ
DATE: 01/24/24
DRAWING: 16
JOB NO.:

