ENGINEERING BY
TRENCO
A MiTek Affiliate

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: J0823-4608
Fairway Point Bldg. #5

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Comtech, Inc - Fayetteville.

Pages or sheets covered by this seal: I62510927 thru I62510931

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

North Carolina COA: C-0844

December 14,2023

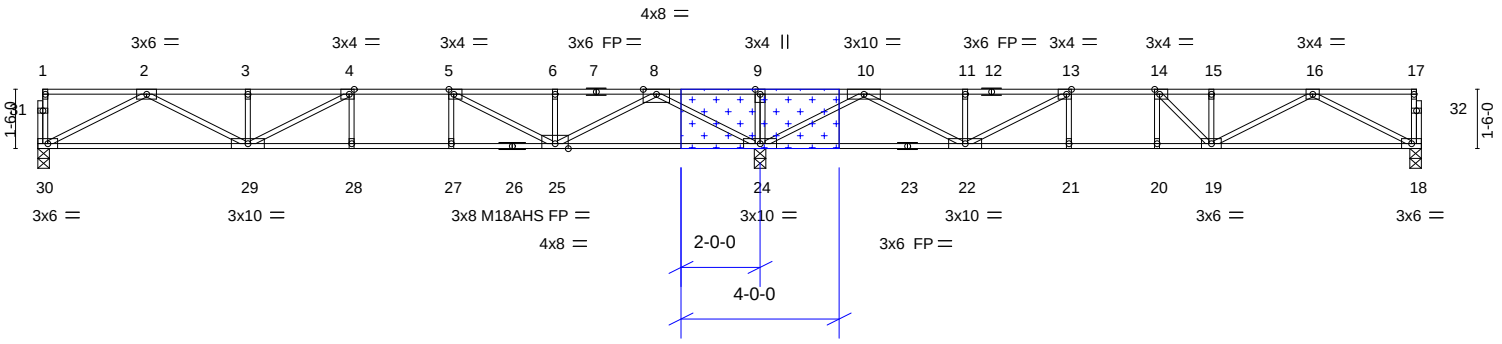
Gilbert, Eric

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

Job	Truss	Truss Type	Qty	Ply	Fairway Point Bldg. #5
J0823-4608	1F3X	FLOOR	0	1	I62510927
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Dec 12 10:44:18 2023 Page 1
ID:Uovnvq9wQPw0mmF22C5tSxykGwZ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

REPAIR: PLATE DAMAGE AT JOINT 24.



ATTACH 3/4" PLYWOOD OR OSB GUSSET (23/32" RATED SHEATHING 48/24 EXP 1)
TO EACH SIDE OF TRUSS WITH CONSTRUCTION QUALITY ADHESIVE AND ONE ROW OF
(0.131" X 2.5") NAILS SPACED 2" O.C. FROM EACH FACE INTO EACH COVERED TRUSS MEMBER.

18-3-4
18-3-4
35-0-0
16-8-12

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge], [13:0-1-8,Edge], [14:0-1-8,Edge]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.79	Vert(LL)	-0.28	28-29	>779	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.79	Vert(CT)	-0.36	28-29	>599	360	M18AHS	186/179
BCLL	0.0	Rep Stress Incr	YES	WB	0.72	Horz(CT)	0.05	18	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-S							Weight: 178 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.1(flat) *Except*
26-30: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 24-25,22-24.

REACTIONS. (size) 30=0-3-8, 24=0-3-8, 18=0-3-8
Max Grav 30=898(LC 3), 24=2218(LC 1), 18=806(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2399/0, 3-4=-2399/0, 4-5=-2644/0, 5-6=-1830/140, 6-8=-1830/140, 8-9=0/2004, 9-10=0/2004, 10-11=-1570/198, 11-13=-1570/198, 13-14=-2149/0, 14-15=-2025/0, 15-16=-2025/0
BOT CHORD 29-30=0/1481, 28-29=0/2644, 27-28=0/2644, 25-27=0/2644, 24-25=-609/603, 22-24=-646/475, 21-22=0/2149, 20-21=0/2149, 19-20=0/2149, 18-19=0/1309
WEBS 9-24=-277/0, 2-30=-1667/0, 2-29=0/1041, 3-29=-330/0, 4-29=-321/185, 8-24=-2103/0, 8-25=0/1507, 6-25=-254/38, 5-25=-1176/0, 10-24=-1972/0, 10-22=0/1391, 11-22=-270/11, 16-18=-1473/0, 16-19=0/813, 15-19=-288/0, 13-22=-944/0, 14-19=-242/279

NOTES-
1) Repair Condition: Missing or damaged plate(s) on one side(s) of truss at joint(s) 24.
2) N/A
3) Unbalanced floor live loads have been considered for this design.
4) All plates are MT20 plates unless otherwise indicated.
5) All plates are 1.5x3 MT20 unless otherwise indicated.
6) Plates checked for a plus or minus 1 degree rotation about its center.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

December 14,2023

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

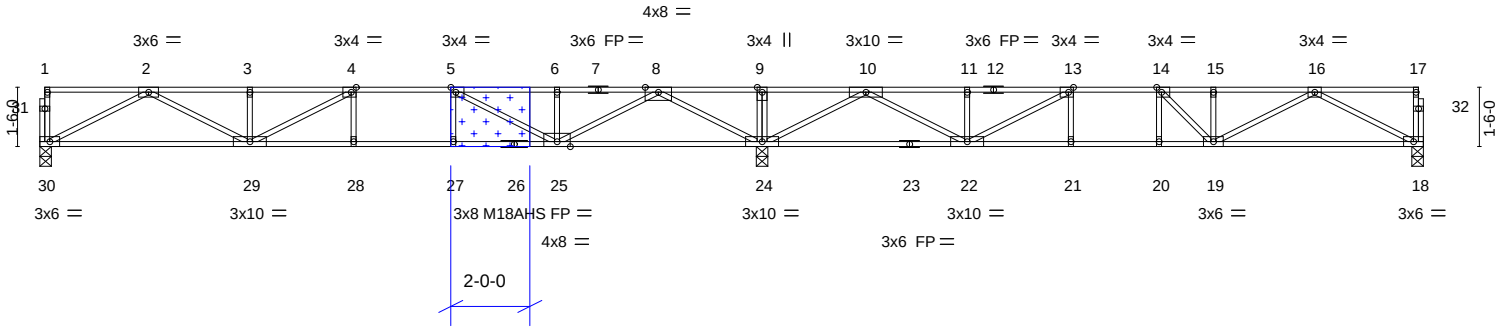
Job	Truss	Truss Type	Qty	Ply	Fairway Point Bldg. #5
J0823-4608	1F3XX	FLOOR	0	1	I62510928
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Dec 12 10:44:20 2023 Page 1
ID:Uovnvq9wQPw0mmF22C5tSxykGwZ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

0-1-8 2-6-0 2-4-12 2-1-4 1-3-0 0-1-8

Scale = 1:58.3

REPAIR: PLATE DAMAGE AT JOINT 27 (ONE SIDE ONLY)



ATTACH 3/4" PLYWOOD OR OSB GUSSET (23/32" RATED SHEATHING 48/24 EXP 1)
TO ONE SIDE OF TRUSS WITH CONSTRUCTION QUALITY ADHESIVE AND ONE ROW OF
(0.131" X 2.5") NAILS SPACED 2" O.C. FROM EACH FACE INTO EACH COVERED TRUSS MEMBER.

18-3-4 35-0-0
18-3-4 16-8-12

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge], [13:0-1-8,Edge], [14:0-1-8,Edge]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.79	Vert(LL)	-0.28	28-29	>779	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.79	Vert(CT)	-0.36	28-29	>599	360	M18AHS	186/179
BCLL	0.0	Rep Stress Incr	YES	WB	0.72	Horz(CT)	0.05	18	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-S							Weight: 178 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.1(flat) *Except*
26-30: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 24-25,22-24.

REACTIONS. (size) 30=0-3-8, 24=0-3-8, 18=0-3-8
Max Grav 30=898(LC 3), 24=2218(LC 1), 18=806(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2399/0, 3-4=-2399/0, 4-5=-2644/0, 5-6=-1830/140, 6-8=-1830/140, 8-9=0/2004, 9-10=0/2004, 10-11=-1570/198, 11-13=-1570/198, 13-14=-2149/0, 14-15=-2025/0, 15-16=-2025/0
BOT CHORD 29-30=0/1481, 28-29=0/2644, 27-28=0/2644, 25-27=0/2644, 24-25=-609/603, 22-24=-646/475, 21-22=0/2149, 20-21=0/2149, 19-20=0/2149, 18-19=0/1309
WEBS 9-24=-277/0, 2-30=-1667/0, 2-29=0/1041, 3-29=-330/0, 4-29=-321/185, 8-24=-2103/0, 8-25=0/1507, 6-25=-254/38, 5-25=-1176/0, 10-24=-1972/0, 10-22=0/1391, 11-22=-270/11, 16-18=-1473/0, 16-19=0/813, 15-19=-288/0, 13-22=-944/0, 14-19=-242/279

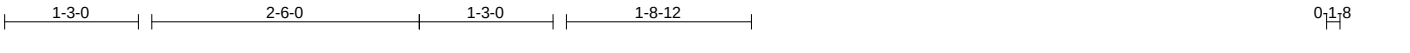
NOTES-
1) Repair Condition: Missing or damaged plate(s) on one side(s) of truss at joint(s) 27.
2) N/A
3) Unbalanced floor live loads have been considered for this design.
4) All plates are MT20 plates unless otherwise indicated.
5) All plates are 1.5x3 MT20 unless otherwise indicated.
6) Plates checked for a plus or minus 1 degree rotation about its center.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

December 14,2023

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

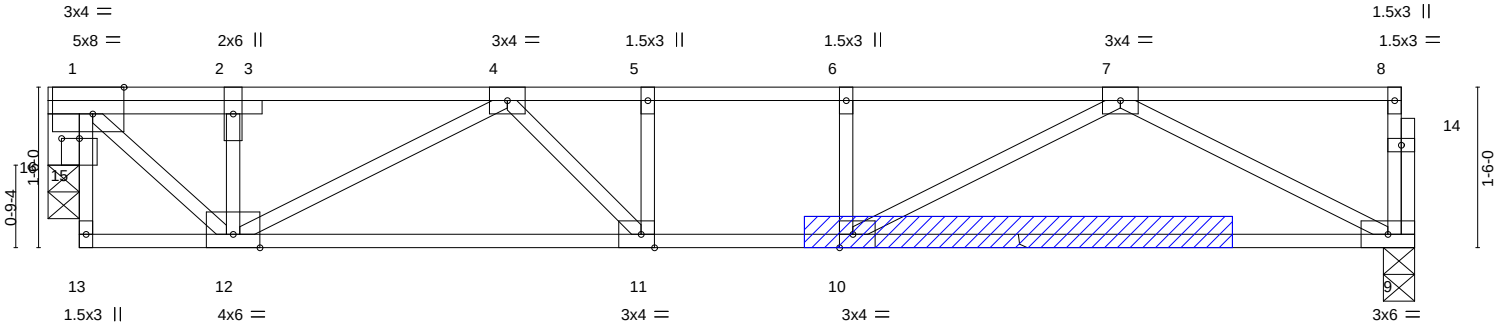
Job	Truss	Truss Type	Qty	Ply	Fairway Point Bldg. #5
J0823-4608	2F19X	FLOOR	0	1	I62510929
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Dec 12 10:44:21 2023 Page 1
ID:Uovnvq9wQPw0mmF22C5tSxykGwZ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:21.5

REPAIR: BREAK ON BC AT 3'-8" FROM RIGHT END.



APPLY 2 X 4 X 4' SP NO.2 SCAB(S) TO EACH FACE OF TRUSS CENTERED ON BREAK. ATTACH WITH CONSTRUCTION QUALITY ADHESIVE AND (1 ROW) OF (0.131"X3") NAILS SPACED 2" ON CENTER IN ALL ALIGNING MEMBERS. USE 2" MEMBER END DISTANCE.

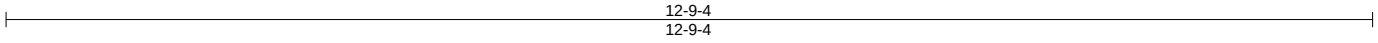


Plate Offsets (X,Y)-- [1:0-3-8,Edge], [10:0-1-8,Edge], [11:0-1-8,Edge], [15:0-2-0,0-0-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.37	Vert(LL)	-0.10	9-10	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.41	Vert(CT)	-0.17	9-10	>861	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.45	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-S							Weight: 70 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD	2x4 SP No.1(flat)
BOT CHORD	2x4 SP No.1(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	4x4 SP No.2(flat)

BRACING-

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

REACTIONS. (size) 9=0-3-8, 16=0-3-8
Max Grav 9=677(LC 1), 16=669(LC 1)

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

TOP CHORD	1-2=-721/0, 2-4=-731/0, 4-5=-1534/0, 5-6=-1534/0, 6-7=-1534/0
BOT CHORD	11-12=0/1369, 10-11=0/1534, 9-10=0/1061
WEBS	2-12=-269/0, 1-12=0/943, 7-9=-1192/0, 7-10=0/602, 4-12=-735/0, 4-11=0/420, 1-16=-678/0

NOTES-

1) Repair Condition: bottom chord has 0-1-0 long break centered at 3-7-15 to the left of joint 9.
2) N/A
3) Unbalanced floor live loads have been considered for this design.
4) Plates checked for a plus or minus 1 degree rotation about its center.
5) Bearing at joint(s) 16 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

December 14,2023

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Fairway Point Bldg. #5
J0823-4608	A8X	PIGGYBACK BASE	0	1	I62510930
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Dec 12 10:44:23 2023 Page 1

ID:Uovnvq9wQPw0mmF22C5tSxykGwZ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

SEE NOTE 2 FOR REPAIR.

Scale = 1:82.9

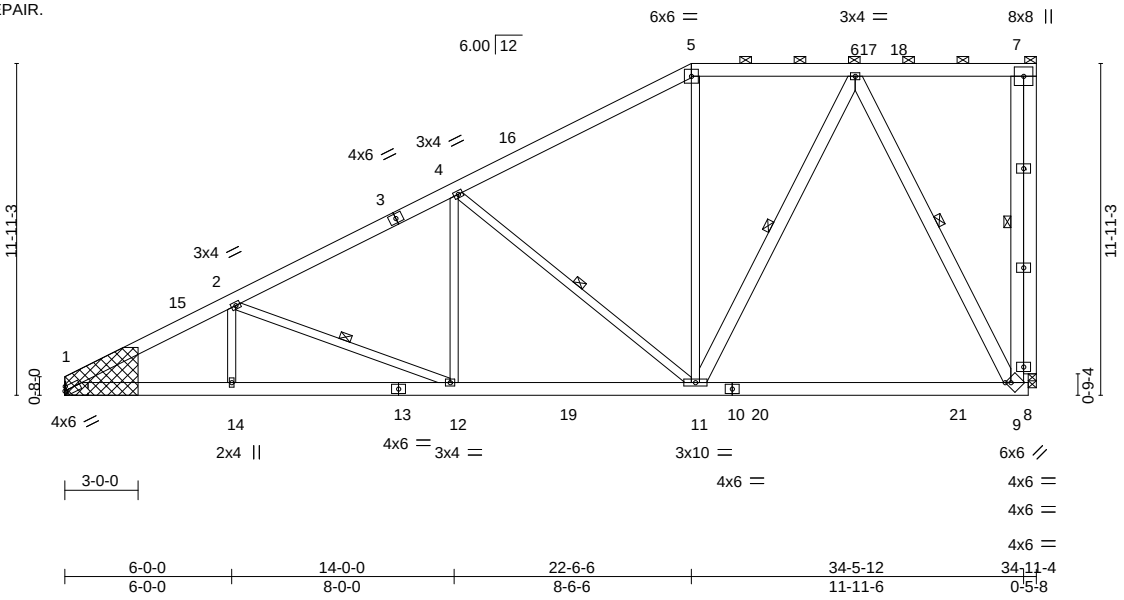


Plate Offsets (X,Y)-- [1:0-1-0,0-1-12], [9:0-1-12,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	-0.23	9-11	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.54	Vert(CT)	-0.33	9-11	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.52	Horz(CT)	0.04	9	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-S		Wind(LL)	0.15	9-11	>999	240	Weight: 337 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2 *Except*
	6-11,6-9,7-9: 2x6 SP No.1
OTHERS	2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-9-11 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-7.
BOT CHORD	Rigid ceiling directly applied or 5-7-11 oc bracing.
WEBS	1 Row at midpt 7-9, 6-11, 6-9, 2-12, 4-11

REACTIONS. (size) 1=Mechanical, 9=0-3-8
Max Horz 1=374(LC 12)
Max Uplift 1=-345(LC 9), 9=-501(LC 9)
Max Grav 1=1367(LC 1), 9=1554(LC 2)

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

TOP CHORD	1-2=-2531/1709, 2-4=-2015/1308, 4-5=-1271/844, 5-6=-1043/836
BOT CHORD	1-14=-1915/2185, 12-14=-1915/2185, 11-12=-1463/1731, 9-11=-515/658
WEBS	6-11=-771/893, 6-9=-1245/974, 2-14=-237/295, 2-12=-583/549, 4-12=-456/484, 4-11=-913/785

NOTES-

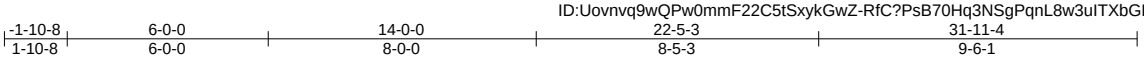
1) Repair Condition: bottom chord has damaged section 0-10-0 long starting 0-0-0 to the right of joint 1.
2) Replace damaged section cut clean with same size and grade of material. Attach 21"H X 36"W X 3/4" Plywood or OSB (23/32" APA Rated Sheathing 48/24 Exposure 1) gusset to both sides of truss at joint 1 with 10d (0.131"x3") nails from each face, driven through both sheets of plywood. Connected together as follows: 2x6 - 3 rows 0-4-0 o.c. Minimum 0-3-0 end distance.
3) N/A
4) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-12 to 4-5-9, Interior(1) 4-5-9 to 22-6-6, Exterior(2) 22-6-6 to 28-9-1, Interior(1) 28-9-1 to 34-3-0 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 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.
8) Refer to girder(s) for truss to truss connections.
9) Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 345 lb uplift at joint 1 and 501 lb uplift at joint 9.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

December 14,2023

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

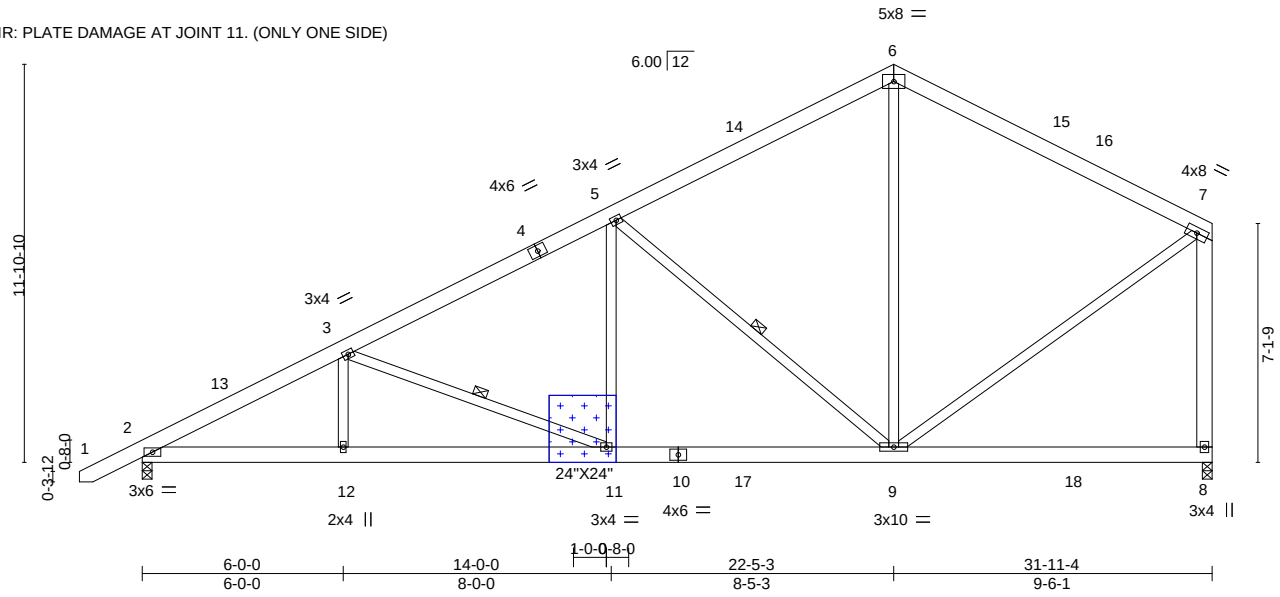
Job	Truss	Truss Type	Qty	Ply	Fairway Point Bldg. #5
J0823-4608	B4X	COMMON	0	1	I62510931
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Dec 12 10:44:24 2023 Page 1
ID:Uovnvq9wQPw0mmF22C5tSxykGwZ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:68.8

REPAIR: PLATE DAMAGE AT JOINT 11. (ONLY ONE SIDE)



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.51	Vert(LL)	-0.07	9-11	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.35	Vert(CT)	-0.13	11-12	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.50	Horz(CT)	0.04	8	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-S		Wind(LL)	0.05	11-12	>999	240	Weight: 253 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
7-8: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-1-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 3-11, 5-9

REACTIONS. (size) 2=0-3-8, 8=0-3-8
Max Horz 2=293(LC 12)
Max Uplift 2=-106(LC 12), 8=-79(LC 12)
Max Grav 2=1375(LC 1), 8=1357(LC 2)

ATTACH 1/2" PLYWOOD OR OSB GUSSET (15/32" RATED SHEATHING 32/16 EXP 1) TO ONE FACE OF TRUSS WITH (0.113" X 2") NAILS PER THE FOLLOWING NAIL SCHEDULE: 2 X 3'S - 2 ROWS, 2 X 4'S - 3 ROWS, 2 X 6'S AND LARGER - 4 ROWS: SPACED @ 2" O.C. INTO EACH COVERED TRUSS MEMBER. USE 2" MEMBER END DISTANCE.

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2284/363, 3-5=-1698/347, 5-6=-967/303, 6-7=-969/306, 7-8=-1174/377
BOT CHORD 2-12=-498/1941, 11-12=-498/1941, 9-11=-355/1487
WEBS 3-12=0/289, 3-11=-555/155, 5-11=0/484, 5-9=-929/277, 6-9=0/404, 7-9=-156/918

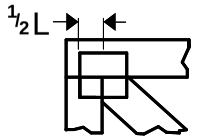
NOTES-
1) Repair Condition: Missing or damaged plate(s) on one side(s) of truss at joint(s) 11.
2) N/A
3) N/A
4) Unbalanced roof live loads have been considered for this design.
5) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-8-2 to 2-8-11, Interior(1) 2-8-11 to 22-5-3, Exterior(2) 22-5-3 to 26-10-0, Interior(1) 26-10-0 to 31-8-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 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.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 106 lb uplift at joint 2 and 79 lb uplift at joint 8.

December 14,2023

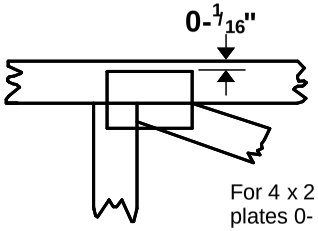
ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

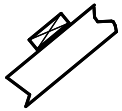
* Plate location details available in MiTek software or upon request.

PLATE SIZE

4 x 4

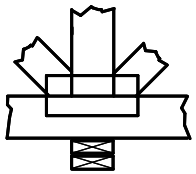
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING

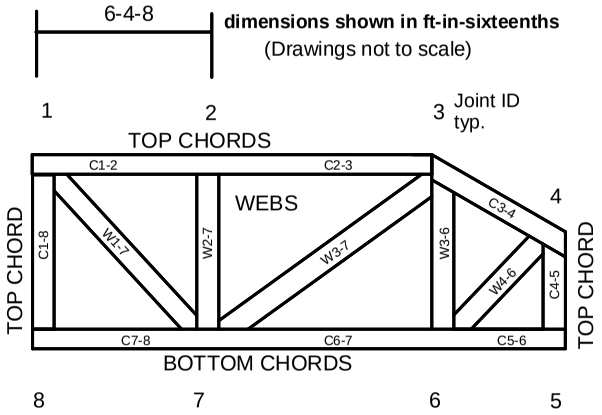


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-22: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



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

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

Product Code Approvals

ICC-ES Reports:

ESR-1988, ESR-2362, ESR-2685, ESR-3282
ESR-4722, ESL-1388

Design General Notes

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

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

MiTek®

ENGINEERING BY TRENCO
A MiTek Affiliate

MiTek Engineering Reference Sheet: MII-7473 rev. 1/2/2023

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.