Job	Truss	Truss Type	Qty	Ply	LOT 96 PROVIDENCE CREEK | 26 DAVINHALL DRIVE FUQUAY-VARINA, NC	I66260278
24-0271-R01	R02	Piggyback Base	8	1	Job Reference (optional)	

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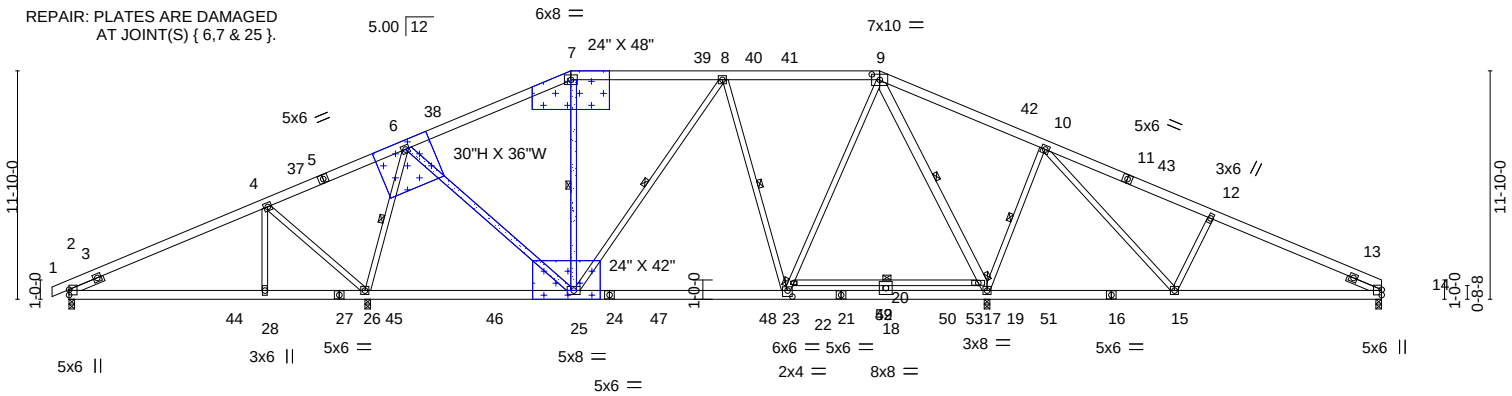
ID:zXU97ebO1cypNaLnLssBwZzqEeb-yADOn307HZTVr_4CUc6C35qex_2t8hAf6AfRQOz5LGj

-0-10-8	10-1-12	17-5-3	26-0-0	34-0-0	42-0-0	50-6-13	59-1-11	68-0-0
0-10-8	10-1-12	7-3-7	8-6-13	8-0-0	8-0-0	8-6-13	8-6-13	8-10-5

REPAIR: REPLACE MISSING WEB 6-25 & 7-25
WITH 2X4 SP/SPF/DF NO.2
CUT TO FIT TIGHT.

REPAIR: PLATES ARE DAMAGED
AT JOINT(S) { 6,7 & 25 }.

Scale = 1:119.4



INSTALL 2 X 4 SPF/DF/SP NO.2
CUT TO FIT TIGHT.

ATTACH 7/16" OSB GUSSET (7/16" RATED SHEATHING 24/16 EXP 1)
TO EACH FACE OF TRUSS WITH (0.131" X 2.5" MIN.) 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 @ 4" O.C.
NAILS TO BE DRIVEN FROM BOTH FACES. STAGGER SPACING FROM FRONT TO BACK FACE
FOR A NET 2" O.C. SPACING IN EACH COVERED TRUSS MEMBER. USE 2" MEMBER END DISTANCE.

10-1-12	15-5-12	26-0-0	37-0-13	42-3-13	47-6-12	57-3-4	68-0-0
10-1-12	5-4-0	10-6-4	11-0-13	5-3-0	5-3-0	9-8-8	10-8-12

Plate Offsets (X,Y)-- [9:0-5-0,0-3-7], [23:0-3-0,0-3-12]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.70	Vert(LL)	-0.22	20-22	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.98	Vert(CT)	-0.33	20-22	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.99	Horz(CT)	0.03	17	n/a	n/a		
BCLL	0.0 *	Code	IRC2021/TPI2014	Matrix-MSH							Weight: 528 lb	FT = 20%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.2
BOT CHORD	2x6 SP No.2 *Except* 19-22: 2x4 SP No.2, 16-21: 2x6 SP DSS
WEBS	2x4 SP No.3 *Except* 9-17: 2x6 SP No.2
SLIDER	Left 2x4 SP No.3 1-11-0, Right 2x4 SP No.3 1-11-0

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing. Except: 6-0-0 oc bracing: 19-22
WEBS	1 Row at midpt 6-26, 7-25, 8-25, 8-23, 9-19, 10-17

REACTIONS. All bearings 0-3-8.
(lb) - Max Horz 2=172(LC 14)
Max Uplift All uplift 100 lb or less at joint(s) except 2=-125(LC 14), 26=-195(LC 14), 17=-162(LC 15), 14=-121(LC 15)
Max Grav All reactions 250 lb or less at joint(s) except 2=698(LC 41), 26=2299(LC 45), 17=3346(LC 45), 14=703(LC 43)

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

TOP CHORD	2-4=-774/154, 6-7=-1188/308, 7-8=-1052/332, 8-9=-1123/281, 9-10=0/575, 10-12=-768/230, 12-14=-961/208
BOT CHORD	2-28=-211/638, 26-28=-211/638, 25-26=-79/458, 23-25=-14/1295, 18-23=0/664, 17-18=0/664, 14-15=-112/829
WEBS	4-28=0/307, 4-26=-781/223, 6-26=-1533/258, 6-25=-2/986, 8-25=-387/156, 8-23=-660/211, 22-23=-74/1266, 9-22=-47/1338, 9-19=-1918/241, 17-19=-1969/212, 10-17=-1232/339, 10-15=-169/875, 12-15=-521/237, 18-20=-370/0

NOTES- (12-15)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; Gable Roof; Hip Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 5-11-2, Interior(1) 5-11-2 to 19-2-6, Exterior(2R) 19-2-6 to 32-9-10, Interior(1) 32-9-10 to 35-2-6, Exterior(2R) 35-2-6 to 48-9-10, Interior(1) 48-9-10 to 61-2-6, Exterior(2E) 61-2-6 to 68-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
6) WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
7) Provide adequate drainage to prevent water ponding.
8) All plates are 5x5 MT20 unless otherwise indicated.

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Continued on page 2

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

NOTES- (12-15)

9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * 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 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 125 lb uplift at joint 2, 195 lb uplift at joint 26, 162 lb uplift at joint 17 and 121 lb uplift at joint 14.
12) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
13) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.
14) Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.
15) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

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

Job	Truss	Truss Type	Qty	Ply	LOT 96 PROVIDENCE CREEK | 26 DAVINHALL DRIVE FUQUAY-VARINA, NC	I66260278.1
24-0271-R01	R02X	Piggyback Base	8	1	Job Reference (optional)	

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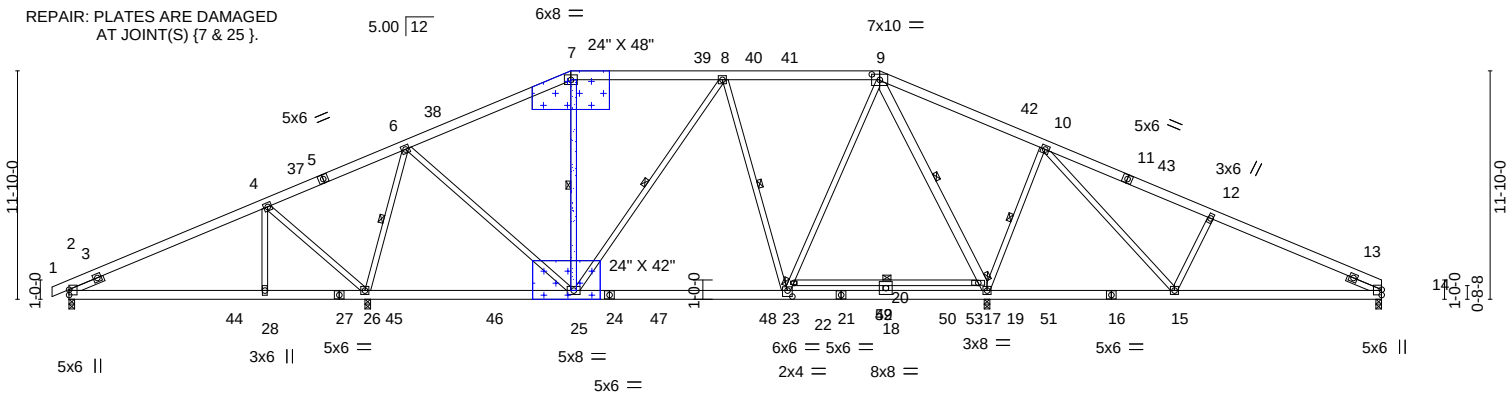
ID:zXU97ebO1cypNaLnLssBwZzqEeb-w?5_J3uMnB?VxpQ?3gOZrnl8pSy8ynYUmni8Mvz5LEI

-0-10-8	10-1-12	17-5-3	26-0-0	34-0-0	42-0-0	50-6-13	59-1-11	68-0-0
0-10-8	10-1-12	7-3-7	8-6-13	8-0-0	8-0-0	8-6-13	8-6-13	8-10-5

REPAIR: REPLACE MISSING WEB 7-25
WITH 2X4 SP/SPF/DF NO.2
CUT TO FIT TIGHT.

REPAIR: PLATES ARE DAMAGED
AT JOINT(S) {7 & 25 }.

Scale = 1:119.4



INSTALL 2 X 4 SPF/DF/SP NO.2
CUT TO FIT TIGHT.

ATTACH 7/16" OSB GUSSET (7/16" RATED SHEATHING 24/16 EXP 1)
TO EACH FACE OF TRUSS WITH (0.131" X 2.5" MIN.) 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 @ 4" O.C.
NAILS TO BE DRIVEN FROM BOTH FACES. STAGGER SPACING FROM FRONT TO BACK FACE
FOR A NET 2" O.C. SPACING IN EACH COVERED TRUSS MEMBER. USE 2" MEMBER END DISTANCE.

10-1-12	15-5-12	26-0-0	37-0-13	42-3-13	47-6-12	57-3-4	68-0-0
10-1-12	5-4-0	10-6-4	11-0-13	5-3-0	5-3-0	9-8-8	10-8-12

Plate Offsets (X,Y)-- [9:0-5-0,0-3-7], [23:0-3-0,0-3-12]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.70	Vert(LL)	-0.22	20-22	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.98	Vert(CT)	-0.33	20-22	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.99	Horz(CT)	0.03	17	n/a	n/a		
BCLL	0.0 *	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 528 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SP No.2
BOT CHORD	2x6 SP No.2 *Except* 19-22: 2x4 SP No.2, 16-21: 2x6 SP DSS
WEBS	2x4 SP No.3 *Except* 9-17: 2x6 SP No.2
SLIDER	Left 2x4 SP No.3 1-11-0, Right 2x4 SP No.3 1-11-0

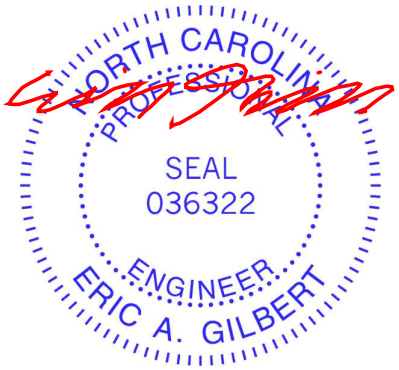
BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing. Except: 6-0-0 oc bracing: 19-22
WEBS	1 Row at midpt 6-26, 7-25, 8-25, 8-23, 9-19, 10-17

REACTIONS. All bearings 0-3-8.
(lb) - Max Horz 2=172(LC 14)
Max Uplift All uplift 100 lb or less at joint(s) except 2=-125(LC 14), 26=-195(LC 14), 17=-162(LC 15), 14=-121(LC 15)
Max Grav All reactions 250 lb or less at joint(s) except 2=698(LC 41), 26=2299(LC 45), 17=3346(LC 45), 14=703(LC 43)

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

TOP CHORD	2-4=-774/154, 6-7=-1188/308, 7-8=-1052/332, 8-9=-1123/281, 9-10=0/575, 10-12=-768/230, 12-14=-961/208
BOT CHORD	2-28=-211/638, 26-28=-211/638, 25-26=-79/458, 23-25=-14/1295, 18-23=0/664, 17-18=0/664, 14-15=-112/829
WEBS	4-28=0/307, 4-26=-781/223, 6-26=-1533/258, 6-25=-2/986, 8-25=-387/156, 8-23=-660/211, 22-23=-74/1266, 9-22=-47/1338, 9-19=-1918/241, 17-19=-1969/212, 10-17=-1232/339, 10-15=-169/875, 12-15=-521/237, 18-20=-370/0



NOTES- (12-15)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; Gable Roof; Hip Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 5-11-2, Interior(1) 5-11-2 to 19-2-6, Exterior(2R) 19-2-6 to 32-9-10, Interior(1) 32-9-10 to 35-2-6, Exterior(2R) 35-2-6 to 48-9-10, Interior(1) 48-9-10 to 61-2-6, Exterior(2E) 61-2-6 to 68-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
6) WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
7) Provide adequate drainage to prevent water ponding.
8) All plates are 5x5 MT20 unless otherwise indicated.

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

NOTES- (12-15)

9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * 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 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 125 lb uplift at joint 2, 195 lb uplift at joint 26, 162 lb uplift at joint 17 and 121 lb uplift at joint 14.
12) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
13) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.
14) Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.
15) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

Job	Truss	Truss Type	Qty	Ply	LOT 96 PROVIDENCE CREEK | 26 DAVINHALL DRIVE FUQUAY-VARINA, NC	I66260278
24-0271-R01	R02XX	Piggyback Base	8	1	Job Reference (optional)	

Atlantic Building Components, Moncks Corner, South Carolina — 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Jun 17 16:09:09 2024 Page 1
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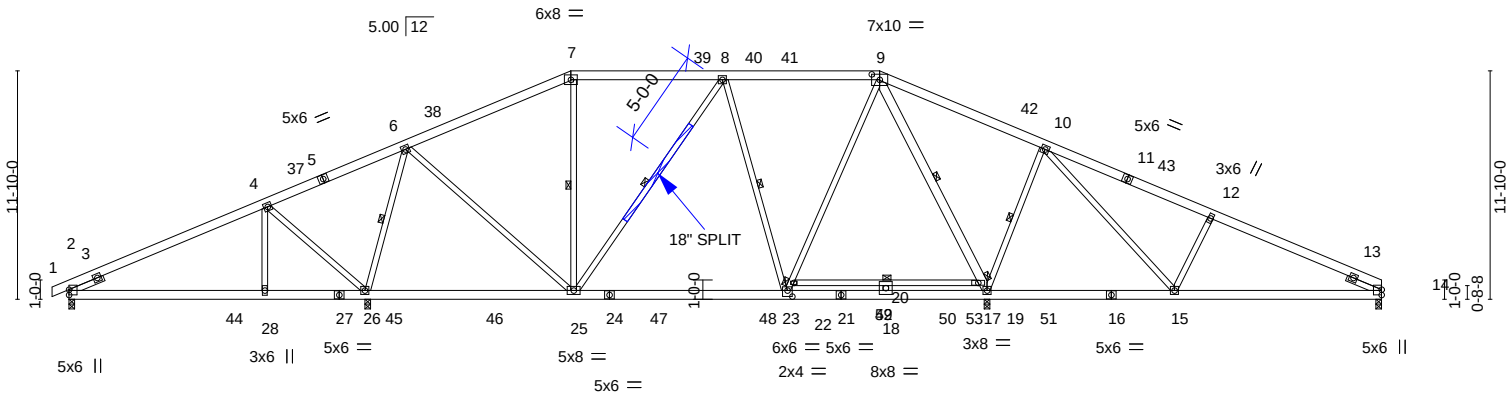
-0-10-8	10-1-12	17-5-3	26-0-0	34-0-0	42-0-0	50-6-13	59-1-11	68-0-0
0-10-8	10-1-12	7-3-7	8-6-13	8-0-0	8-0-0	8-6-13	8-6-13	8-10-5

Scale = 1:119.4

REPAIR: TRUSS WEB 8-25 BROKEN.



APPLY 2 X 4 X 6' SPF/DF/SP NO.2 SCAB TO ONE FACE OF TRUSS CENTERED ON DAMAGE/SPLICE OR AS SHOWN. ATTACH WITH (0.131" X 3") NAILS PER THE FOLLOWING NAIL SCHEDULE: 2 x 3'S - 1 ROW, 2 x 4'S - 2 ROWS, 2 x 6'S AND LARGER - 3 ROWS: SPACED @ 2" O.C. USE 2" MEMBER END DISTANCE.

10-1-12	15-5-12	26-0-0	37-0-13	42-3-13	47-6-12	57-3-4	68-0-0
10-1-12	5-4-0	10-6-4	11-0-13	5-3-0	5-3-0	9-8-8	10-8-12

Plate Offsets (X,Y)-- [9:0-5-0,0-3-7], [23:0-3-0,0-3-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.70	Vert(LL)	-0.22	20-22	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.98	Vert(CT)	-0.33	20-22	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.99	Horz(CT)	0.03	17	n/a	n/a		
BCLL	0.0 *	Code	IRC2021/TPI2014	Matrix-MSH							Weight: 528 lb	FT = 20%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.2
BOT CHORD	2x6 SP No.2 *Except* 19-22: 2x4 SP No.2, 16-21: 2x6 SP DSS
WEBS	2x4 SP No.3 *Except* 9-17: 2x6 SP No.2
SLIDER	Left 2x4 SP No.3 1-11-0, Right 2x4 SP No.3 1-11-0

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing. Except: 6-0-0 oc bracing: 19-22
WEBS	1 Row at midpt 6-26, 7-25, 8-25, 8-23, 9-19, 10-17

REACTIONS. All bearings 0-3-8.
(lb) - Max Horz 2=172(LC 14)
Max Uplift All uplift 100 lb or less at joint(s) except 2=-125(LC 14), 26=-195(LC 14), 17=-162(LC 15), 14=-121(LC 15)
Max Grav All reactions 250 lb or less at joint(s) except 2=698(LC 41), 26=2299(LC 45), 17=3346(LC 45), 14=703(LC 43)

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

TOP CHORD	2-4=-774/154, 6-7=-1188/308, 7-8=-1052/332, 8-9=-1123/281, 9-10=0/575, 10-12=-768/230, 12-14=-961/208
BOT CHORD	2-28=-211/638, 26-28=-211/638, 25-26=-79/458, 23-25=-14/1295, 18-23=0/664, 17-18=0/664, 14-15=-112/829
WEBS	4-28=0/307, 4-26=-781/223, 6-26=-1533/258, 6-25=-2/986, 8-25=-387/156, 8-23=-660/211, 22-23=-74/1266, 9-22=-47/1338, 9-19=-1918/241, 17-19=-1969/212, 10-17=-1232/339, 10-15=-169/875, 12-15=-521/237, 18-20=-370/0

NOTES- (12-15)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; Gable Roof; Hip Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 5-11-2, Interior(1) 5-11-2 to 19-2-6, Exterior(2R) 19-2-6 to 32-9-10, Interior(1) 32-9-10 to 35-2-6, Exterior(2R) 35-2-6 to 48-9-10, Interior(1) 48-9-10 to 61-2-6, Exterior(2E) 61-2-6 to 68-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
6) WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
7) Provide adequate drainage to prevent water ponding.
8) All plates are 5x5 MT20 unless otherwise indicated.

June 17,2024

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

NOTES- (12-15)

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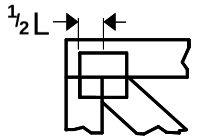
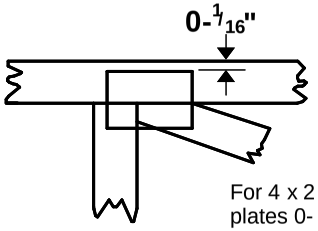
10) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 125 lb uplift at joint 2, 195 lb uplift at joint 26, 162 lb uplift at joint 17 and 121 lb uplift at joint 14.
12) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
13) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.
14) Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.
15) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

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.

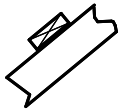
* Plate location details available in MiTek software or upon request.

PLATE SIZE

4 x 4

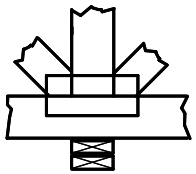
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

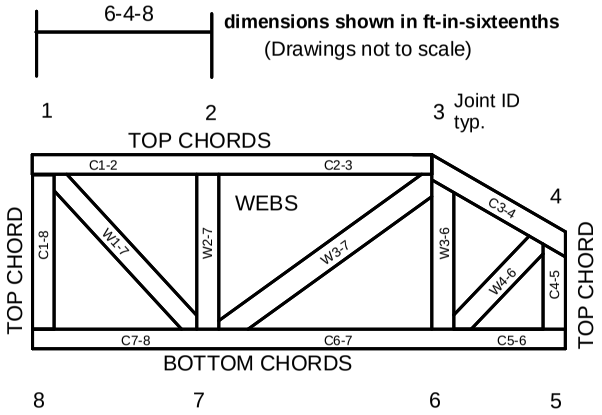


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

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.