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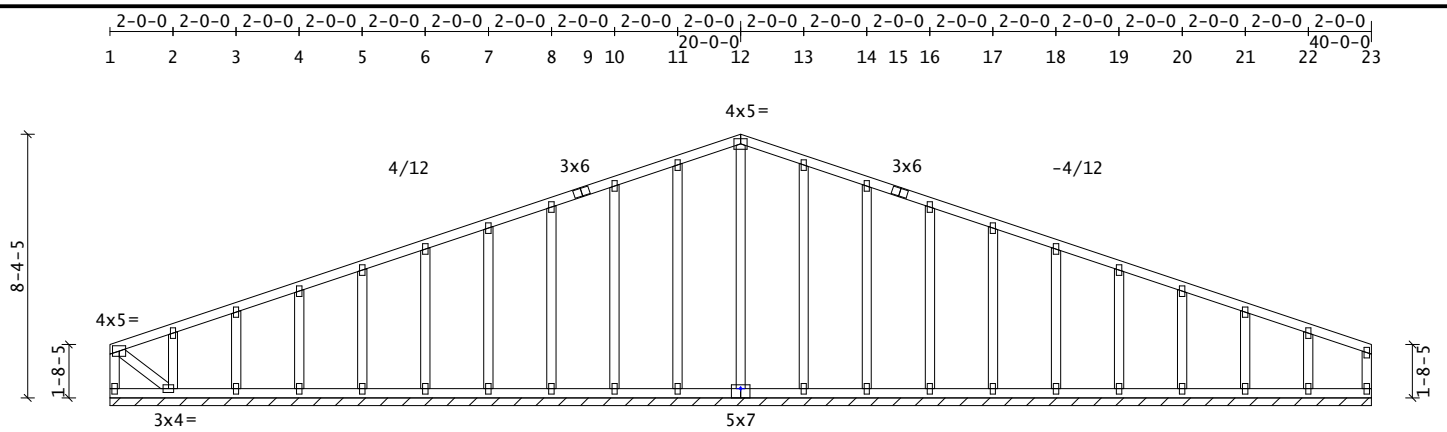
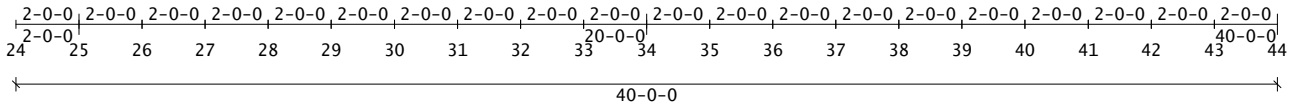


Typical plate: 2x4



Truss Weight = 218.9 lb

```
Code/Design: IBC-2021/TPI-2014
PSF  Live  Dead        Dur Factors
TC    40.0  10.0       Live  Wind  Snow
BC     0.0  10.0  Lum 1.15  1.60  1.15
Total      60.0  Plt 1.15  1.60  1.15
Spacing:  2-00-00 o.c.    Plies: 1
Repetitive Member Increase: Yes
Green Lumber:  No  Wet Service:  No
Fab Tolerance:  20% Creep (Kcr) = 2.0
OH Soffit Load:  2.0 psf
```

```
----------Snow Load Specs----------
ASCE7-16 Roof Snow (Pf) = 40.0 psf
Risk Cat: II  Terrain Cat: B
Roof Exposure: Sheltered
Thermal Condition: Unheated(1.2)
Unobstructed Slippery Roof: No
Low-Slope Minimums(Pfmin):  No
Unbalanced Snow Loads:      Yes
Rain Surcharge: No Ice Dam Chk: No
Lu(max) = 21-02-08
```

```
----------Wind Load Specs----------
ASCE7-16  Wind Speed(V) = 137 mph
Risk Cat: II  Exposure Cat: B
Bldg Dims: L = 104.0 ft  B =  70.0 ft
M.R.H(h)=  25.0ft Kzt = 1.0 Ke = 1.00
Bldg Enclosure: Enclosed
Wind DL(psf): TC =  6.0 BC =  6.0
End Vertical Exposed: L = Yes R = Yes
Wind Uplift Reporting: ASCE7 MWFRS
C&C End Zone: 7-00-00
```

```
-------Additional Design Checks------
10 psf Non-Concurrent BCLL:       Yes
20 psf BC Limited Storage:        Yes
200 lb BC Accessible Ceiling:     Yes
300 lb TC Maintenance Load:       Yes
2000 lb TC Safe Load:             No
Unbalanced TCLL:                  Yes
```

Material Summary

```
TC      2x4   SPF  #1/#2
BC      2x4   SPF  #1/#2
Webs    2x4   SPF  #1/#2
```

Member Forces Summary

```
Max CSI in TC PANEL  10 - 11   0.12
Max CSI in BC PANEL  24 - 25   0.03
Max CSI in Web       33 - 11   0.28
```

...Mem...	Ten	Comp	.CSI.
TC 1- 9	270	94	0.11
9-12	328	121	0.12
12-15	302	121	0.12
15-23	207	94	0.11
BC 24-34	143	141	0.03
34-44	0	17	0.03
Web 1-24	137	111	0.03
1-25	167	167	0.03
2-25	70	212	0.03
3-26	65	223	0.03
4-27	66	223	0.05
5-28	66	222	0.06
6-29	65	221	0.08
7-30	70	225	0.11
8-31	120	275	0.18
10-32	130	271	0.21
11-33	125	291	0.28
12-34	2	204	0.23
13-35	122	291	0.28
14-36	132	271	0.21
16-37	119	275	0.18
17-38	70	225	0.11
18-39	65	221	0.08
19-40	66	222	0.06
20-41	66	223	0.05
21-42	65	223	0.03
22-43	70	212	0.03
23-44	32	111	0.01

Reaction Summary

```
Max Horiz =   -153 /   +153 at Joint  34
Reactions not shown: down < 400 and up < 150
---- Reaction Summary (plf) -----
Jnt-Jnt       React -Up- --Width-
 24- 44         119     6 40-00-00
```

Loads Summary

This truss has been designed for the effects of an unbalanced top chord live load occurring at [20-00-00] using a 1.00 Full and 0.00 Reduced load factor.

See Loadcase Report for load combinations and additional details.
Snow load reported as Live Load. Roof Live Load = 40.0 psf

Notes

If this truss is exposed to wind load perpendicular to the plane of the truss, gable studs must be braced according to the Construction Documents, BCSI-B3, or a gable stud bracing detail matching the design wind speed shown. Lateral bracing of the truss itself to resist out-of-plane wind load must be in accordance with the Construction Documents.
The maximum rake overhang length is 12.0".
Plates designed for Cq at 0.80 and Rotational Tolerance of 10.0 degrees.
Plates located at TC pitch breaks meet the prescriptive minimum size requirement to transfer unblocked diaphragm loads across those joints.

Deflection Summary

TrussSpan	Limit	Actual(in)	Location
Vert LL	L/240	L/999(-0.00)	43-44
Vert DL	L/120	L/999(-0.00)	24-25
Vert CR	L/180	L/999(-0.00)	24-25
Horz LL	0.75in	(0.00)	@Jt24
Horz CR	1.25in	(0.00)	@Jt24

Bracing Data Summary

```
------------Bracing Data------------
Chords; continuous except where shown
Web Bracing -- None
```

Plate offsets (X, Y):

(None unless indicated below)
Jnt34(0,-01-00)

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SIMPSON StrongTie

Component Solutions
Truss Studio V
2024.3.2.1

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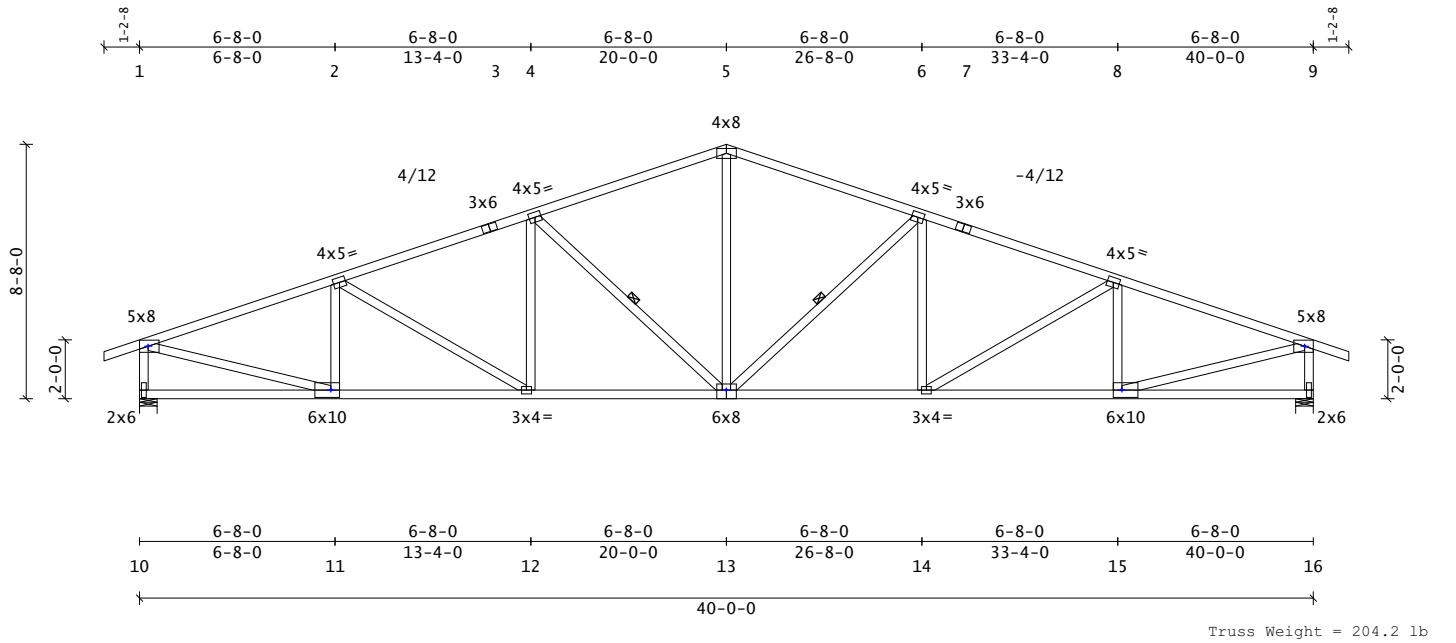

Truss Weight = 204.2 lb

```
Code/Design: IBC-2021/TPI-2014
PSF  Live  Dead        Dur Factors
TC   40.0  10.0      Live  Wind  Snow
BC    0.0  10.0  Lum 1.15  1.60  1.15
Total      60.0  Plt 1.15  1.60  1.15
Spacing:  2-00-00 o.c.    Plies: 1
Repetitive Member Increase: Yes
Green Lumber:  No  Wet Service:  No
Fab Tolerance:  20% Creep (Kcr) = 2.0
OH Soffit Load:  2.0 psf
```

```
----------Snow Load Specs----------
ASCE7-16 Roof Snow (Pf) = 40.0 psf
Risk Cat: II  Terrain Cat: B
Roof Exposure: Sheltered
Thermal Condition: Unheated(1.2)
Unobstructed Slippery Roof: No
Low-Slope Minimums(Pfmin):  No
Unbalanced Snow Loads:      Yes
Rain Surcharge: No Ice Dam Chk: No
Lu(max) = 21-02-08
```

```
----------Wind Load Specs----------
ASCE7-16  Wind Speed(V) = 137 mph
Risk Cat: II  Exposure Cat: B
Bldg Dims: L = 104.0 ft  B =  70.0 ft
M.R.H(h)=  25.0ft Kzt = 1.0 Ke = 1.00
Bldg Enclosure: Enclosed
Wind DL(psf): TC =  6.0 BC =  6.0
End Vertical Exposed: L = Yes R = Yes
Wind Uplift Reporting: ASCE7 MWFRS
C&C End Zone: 7-00-00
```

```
-------Additional Design Checks------
10 psf Non-Concurrent BCLL:       Yes
20 psf BC Limited Storage:        Yes
200 lb BC Accessible Ceiling:     Yes
300 lb TC Maintenance Load:       Yes
2000 lb TC Safe Load:             No
Unbalanced TCLL:                  Yes
```

Material Summary

```
TC      2x4   SPF  1650/1.5
BC      2x4   SPF  #1/#2
Webs    2x4   SPF  #1/#2
```

Member Forces Summary

```
Max CSI in TC PANEL   1 -  2   0.97
Max CSI in BC PANEL  12 - 13   0.90
Max CSI in Web        1 - 11   0.87
```

...Mem...	Ten	Comp	.CSI.
TC OH- 1	51	0	0.18
1- 2	714	3695	0.97
2- 3	836	3777	0.75
3- 4	842	3611	0.79
4- 5	785	3127	0.87
5- 6	785	3127	0.87
6- 7	842	3611	0.79
7- 8	837	3777	0.75
8- 9	714	3695	0.97
9-OH	51	0	0.18
BC OH-10	0	0	0.00
10-11	0	147	0.51
11-12	3425	692	0.88
12-13	3481	723	0.90
13-14	3481	620	0.90
14-15	3425	605	0.88
15-16	0	21	0.51
16-OH	0	0	0.00
Web 1-10	498	2467	0.33
1-11	3546	612	0.87
2-11	249	776	0.22
2-12	252	159	0.16
4-12	244	0	0.05
4-13	282	1075	0.41
5-13	1282	207	0.31
6-13	282	1075	0.41
6-14	244	0	0.05
8-14	252	159	0.16
8-15	249	776	0.22
9-15	3546	612	0.87
9-16	498	2467	0.33

Reaction Summary

```
--------------Reaction Summary(Lbs)----------------
Jnt  --X-Loc- React -Up- --Width- -Reqd   -Mat  PSI
 10     01-12  2525  155    07-04 03-15    SPF  425
 16  39-10-04  2525  155    07-04 03-15    SPF  425
Max Horiz =   -161 /   +161 at Joint  10
```

Loads Summary

This truss has been designed for the effects of an unbalanced top chord live load occurring at [20-00-00] using a 1.00 Full and 0.00 Reduced load factor.

See Loadcase Report for load combinations and additional details.
Snow load reported as Live Load. Roof Live Load = 40.0 psf

Notes

Plates designed for Cq at 0.80 and Rotational Tolerance of 10.0 degrees.
Plates located at TC pitch breaks meet the prescriptive minimum size requirement to transfer unblocked diaphragm loads across those joints.
Continuous Lateral Restraint (CLR) rows require diagonal bracing per D-WEBCLRBRACE. Alternatively, see D-WEBREINFORCE.
Lumber and plating have been applied symmetrically.

Deflection Summary

```
TrussSpan Limit  Actual(in)   Location
Vert LL   L/240   L/999(-0.32) 13-14
Vert DL   L/120   L/999(-0.19) 13-14
Vert CR   L/180   L/934(-0.51) 13-14
Horz LL   0.75in       ( 0.10) @Jt16
Horz CR   1.25in       ( 0.15) @Jt16
Ohng CR  2L/180  2L/999(-0.01)  1- 1
Ohng CR  2L/180  2L/999(-0.01)  9- 9
```

Bracing Data Summary

```
------------Bracing Data------------
Chords; continuous except where shown
------- Web Bracing -- CLR -----------
Single:    4-13 13- 6
Continuous Restraint Bracing Req'd
See BCSI-B3 3.0
```

Plate offsets (X, Y):

(None unless indicated below)
Jnt1(00-08,0), Jnt9(-00-08,0), Jnt11(-01-08,0), Jnt13(0,-00-08), Jnt15(01-08,0)

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SIMPSON StrongTie

Component Solutions
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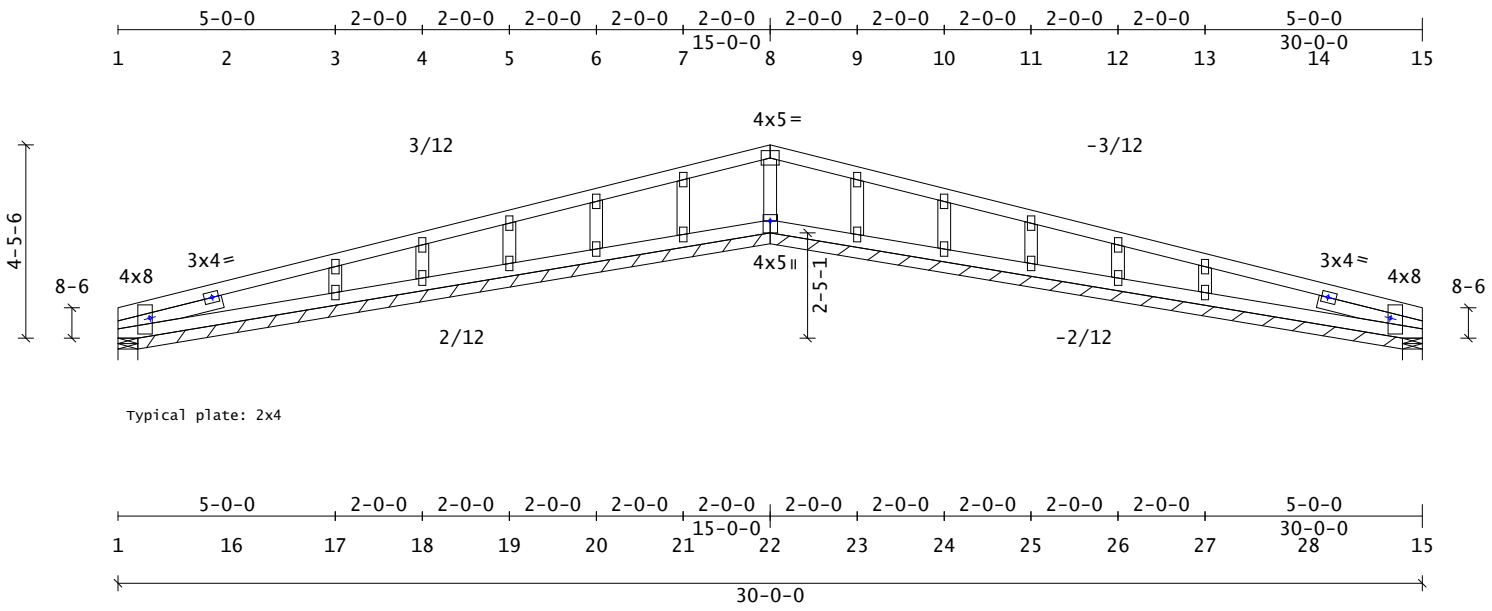

Typical plate: 2x4

Truss Weight = 104.3 lb

```
Code/Design: IBC-2021/TPI-2014
PSF  Live  Dead        Dur Factors
TC    40.0  10.0      Live  Wind  Snow
BC     0.0  10.0  Lum 1.15  1.60  1.15
Total      60.0  Plt 1.15  1.60  1.15
Spacing:  2-00-00 o.c.    Plies: 1
Repetitive Member Increase: Yes
Green Lumber:  No  Wet Service:  No
Fab Tolerance:  20% Creep (Kcr) = 2.0
OH Soffit Load:  2.0 psf
```

```
----------Snow Load Specs----------
ASCE7-16 Roof Snow (Pf) = 40.0 psf
Risk Cat: II  Terrain Cat: B
Roof Exposure: Sheltered
Thermal Condition: Unheated(1.2)
Unobstructed Slippery Roof: No
Low-Slope Minimums(Pfmin):  No
Unbalanced Snow Loads:      Yes
Rain Surcharge: No Ice Dam Chk: No
Lu(max) = 20-00-00
```

```
----------Wind Load Specs----------
ASCE7-16  Wind Speed(V) = 137 mph
Risk Cat: II  Exposure Cat: B
Bldg Dims: L = 104.0 ft  B =  70.0 ft
M.R.H(h)=  25.0ft Kzt = 1.0 Ke = 1.00
Bldg Enclosure: Enclosed
Wind DL(psf): TC =  6.0 BC =  6.0
End Vertical Exposed: L = Yes R = Yes
Wind Uplift Reporting: ASCE7 MWFRS
C&C End Zone: 7-00-00
```

```
-------Additional Design Checks------
10 psf Non-Concurrent BCLL:       Yes
20 psf BC Limited Storage:        Yes
200 lb BC Accessible Ceiling:     Yes
300 lb TC Maintenance Load:       Yes
2000 lb TC Safe Load:             No
Unbalanced TCLL:                  Yes
```

Material Summary

```
TC      2x4   SPF  #1/#2
BC      2x4   SPF  #1/#2
Webs    2x4   SPF  #1/#2
Slider  2x4   SPF  #1/#2
```

Member Forces Summary

```
Max CSI in TC PANEL    2 -  3   0.23
Max CSI in BC PANEL    1 - 16   0.25
Max CSI in Web         1 -  2   0.06

...Mem...    Ten      Comp      .CSI.
TC    1- 8     74       138       0.23
      8-15     74       138       0.23
BC    1-22    129        14       0.25
     15-22    129        13       0.25
Web   1- 2      4        14       0.06
      3-17    103       332       0.04
      4-18     50       216       0.02
      5-19    118       273       0.03
      6-20    120       256       0.03
      7-21    125       279       0.03
      8-22      9       191       0.02
      9-23    125       279       0.03
     10-24    120       256       0.03
     11-25    118       273       0.03
     12-26     50       216       0.02
     13-27    103       332       0.04
     14-15      4        14       0.06
```

Reaction Summary

```
--------------Reaction Summary(Lbs)----------------
Jnt  --X-Loc-  React -Up- --Width- -Reqd   -Mat  PSI
  1     02-12   209   11    05-08 01-08    SPF  531
 15  29-09-04   209   11    05-08 01-08    SPF  531
Max Horiz =    -39 /    +39 at Joint  22
Reactions not shown: down < 400 and up < 150
---- Reaction Summary (plf) -----
Jnt-Jnt       React -Up- --Width-
  1- 22         131    5 14-06-08
 22- 15         119    7 14-06-08
```

Loads Summary

This truss has been designed for the effects of an unbalanced top chord live load occurring at [15-00-00] using a 1.00 Full and 0.00 Reduced load factor.

See Loadcase Report for load combinations and additional details.
Snow load reported as Live Load. Roof Live Load = 40.0 psf

Notes

If this truss is exposed to wind load perpendicular to the plane of the truss, gable studs must be braced according to the Construction Documents, BCSI-B3, or a gable stud bracing detail matching the design wind speed shown. Lateral bracing of the truss itself to resist out-of-plane wind load must be in accordance with the Construction Documents.
The maximum rake overhang length is 12.0".
Plates designed for Cq at 0.80 and Rotational Tolerance of 10.0 degrees.
Plates located at TC pitch breaks meet the prescriptive minimum size requirement to transfer unblocked diaphragm loads across those joints.
Lumber and plating have been applied symmetrically.

Deflection Summary

```
TrussSpan Limit  Actual(in)   Location
Vert LL   L/240  L/999(-0.01)  1-16
Vert DL   L/120  L/999(-0.00)  1-16
Vert CR   L/180  L/999(-0.01)  1-16
Horz LL   0.75in       ( 0.01) @Jt15
Horz CR   1.25in       ( 0.01) @Jt15
```

Bracing Data Summary

```
------------Bracing Data------------
Chords; continuous except where shown
Web Bracing -- None
```

Plate offsets (X, Y):

(None unless indicated below)
Jnt2(-00-03,-00-01), Jnt14(00-03,-00-01), Jnt22(0,-00-12), Jnt1(-01-05,-00-05), Jnt15(01-05,-00-05)

COLORADO LICENSED
MEHUL H. SONI
42779
PROFESSIONAL ENGINEER

5/27/2025

SIMPSON Strong-Tie

Component Solutions
Truss Studio V
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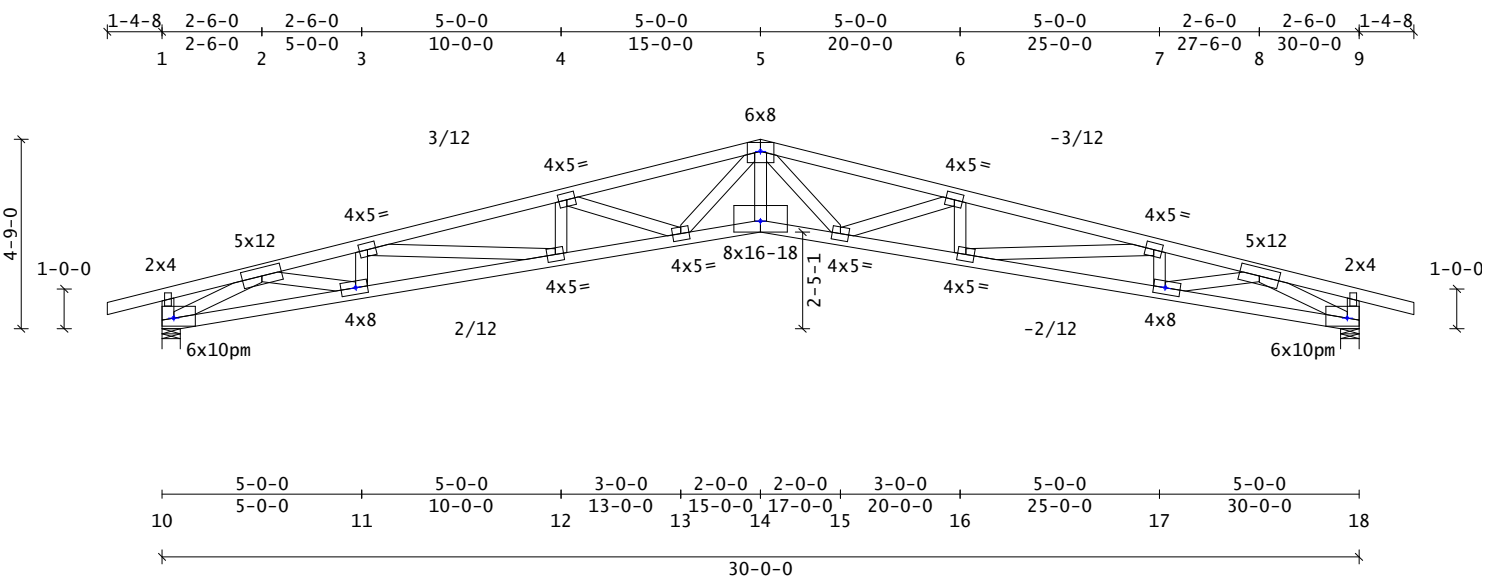

Truss Weight = 164.5 lb

```
Code/Design: IBC-2021/TPI-2014
PSF  Live  Dead        Dur Factors
TC   40.0  10.0      Live  Wind  Snow
BC    0.0  10.0  Lum 1.15  1.60  1.15
Total      60.0  Plt 1.15  1.60  1.15
Spacing:  2-00-00 o.c.    Plies: 1
Repetitive Member Increase: Yes
Green Lumber:  No  Wet Service:  No
Fab Tolerance:  20% Creep (Kcr) = 2.0
OH Soffit Load:  2.0 psf
```

```
----------Snow Load Specs----------
ASCE7-16 Roof Snow (Pf) = 40.0 psf
Risk Cat: II  Terrain Cat: B
Roof Exposure: Sheltered
Thermal Condition: Unheated(1.2)
Unobstructed Slippery Roof: No
Low-Slope Minimums(Pfmin):  No
Unbalanced Snow Loads:      Yes
Rain Surcharge: No Ice Dam Chk: No
Lu(max) = 20-00-00
```

```
----------Wind Load Specs----------
ASCE7-16  Wind Speed(V) = 137 mph
Risk Cat: II  Exposure Cat: B
Bldg Dims: L = 104.0 ft  B =  70.0 ft
M.R.H(h)=  25.0ft Kzt = 1.0 Ke = 1.00
Bldg Enclosure: Enclosed
Wind DL(psf): TC =  6.0 BC =  6.0
End Vertical Exposed: L = Yes R = Yes
Wind Uplift Reporting: ASCE7 MWFRS
C&C End Zone: 7-00-00
```

```
-------Additional Design Checks------
10 psf Non-Concurrent BCLL:       Yes
20 psf BC Limited Storage:        Yes
200 lb BC Accessible Ceiling:     Yes
300 lb TC Maintenance Load:       Yes
2000 lb TC Safe Load:             No
Unbalanced TCLL:                  Yes
```

Material Summary

```
TC      2x4   SPF  1650/1.5
BC      2x4   SPF  2100/1.8
Webs    2x4   SPF  #1/#2
```

Member Forces Summary

```
Max CSI in TC PANEL   3 -  4   0.99
Max CSI in BC PANEL  12 - 13   0.85
Max CSI in Web       10 -  2   0.74
```

...Mem...		Ten	Comp	.CSI.
TC	OH- 1	44	0	0.23
	1- 2	40	48	0.23
	2- 3	1350	6277	0.44
	3- 4	1790	7605	0.99
	4- 5	1619	7097	0.93
	5- 6	1542	7097	0.93
	6- 7	1723	7605	0.99
	7- 8	1306	6277	0.44
	8- 9	40	48	0.23
	9-OH	44	0	0.23
BC	OH-10	2	0	0.00
	10-11	3765	849	0.49
	11-12	6165	1334	0.76
	12-13	7425	1719	0.85
	13-14	6648	1361	0.74
	14-15	6648	1361	0.74
	15-16	7425	1586	0.85
	16-17	6165	1223	0.76
	17-18	3765	758	0.49
	18-OH	2	0	0.00
Web	1-10	116	355	0.04
	2-10	903	4307	0.74
	2-11	2457	487	0.60
	3-11	255	838	0.10
	3-12	1266	382	0.31
	4-12	142	214	0.03
	4-13	265	876	0.18
	5-13	697	153	0.17
	5-14	2311	446	0.56
	5-15	697	162	0.17
	6-15	275	876	0.18
	6-16	137	214	0.03
	7-16	1266	359	0.31
	7-17	248	838	0.10
	8-17	2457	467	0.60
	8-18	876	4307	0.74
	9-18	117	355	0.04

Reaction Summary

```
--------------Reaction Summary(Lbs)----------------
Jnt  --X-Loc- React -Up- --Width- -Reqd   -Mat  PSI
 10     01-12  1943  124    05-08 02-07    SPF  531
 18  29-10-04  1943  124    05-08 02-07    SPF  531
Max Horiz =    -35 /    +35 at Joint  10
```

Loads Summary

This truss has been designed for the effects of an unbalanced top chord live load occurring at [15-00-00] using a 1.00 Full and 0.00 Reduced load factor.

See Loadcase Report for load combinations and additional details.
Snow load reported as Live Load. Roof Live Load = 40.0 psf

Notes

Plates designed for Cq at 0.80 and Rotational Tolerance of 10.0 degrees.
Plates located at TC pitch breaks meet the prescriptive minimum size requirement to transfer unblocked diaphragm loads across those joints.
A "pm" next to the plate size indicates that the plate has been user modified; see Plate Offsets for any special positioning requirements.
Lumber and plating have been applied symmetrically.

Deflection Summary

```
TrussSpan Limit  Actual(in)    Location
Vert LL   L/240   L/314(-1.13) 14-15
Vert DL   L/120   L/633(-0.56) 14-15
Vert CR   L/180   L/210(-1.70) 14-15
Horz LL   0.75in       ( 0.54) @Jt18
Horz CR   1.25in       ( 0.80) @Jt18
Ohng CR  2L/180  2L/999(-0.02)  1- 1
Ohng CR  2L/180  2L/999(-0.02)  9- 9
```

Bracing Data Summary

```
------------Bracing Data------------
Chords; continuous except where shown
Web Bracing -- None
```

Plate offsets (X, Y):

(None unless indicated below)
Jnt5(0,-00-06), Jnt10(01-08,00-09), Jnt11(-00-07,-00-01), Jnt14(0,00-12), Jnt17(00-07,-00-01), Jnt18(-01-08,00-09)

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SIMPSON StrongTie

Component Solutions
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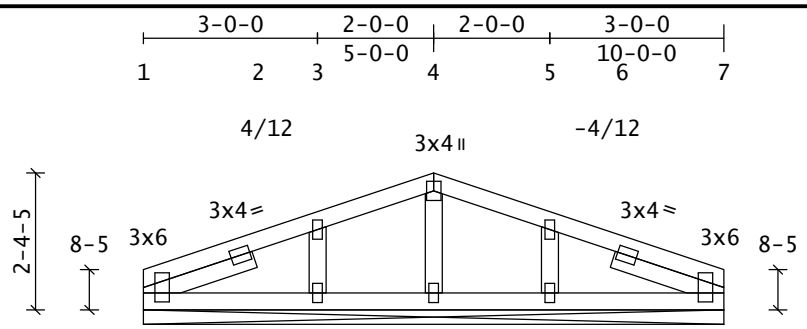
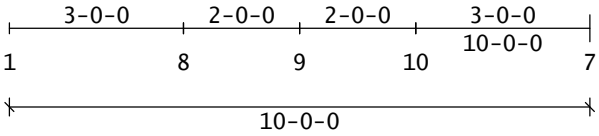


Typical plate: 2x4



Truss Weight = 38.8 lb

```
Code/Design: IBC-2021/TPI-2014
PSF  Live  Dead        Dur Factors
TC    40.0  10.0      Live  Wind  Snow
BC     0.0  10.0  Lum 1.15  1.60  1.15
Total      60.0  Plt 1.15  1.60  1.15
Spacing:  2-00-00 o.c.    Plies: 1
Repetitive Member Increase: Yes
Green Lumber:  No  Wet Service:  No
Fab Tolerance:  20% Creep (Kcr) = 2.0
OH Soffit Load:  2.0 psf
```

```
----------Snow Load Specs----------
ASCE7-16 Roof Snow (Pf) = 40.0 psf
Risk Cat: II  Terrain Cat: B
Roof Exposure: Sheltered
Thermal Condition: Unheated(1.2)
Unobstructed Slippery Roof: No
Low-Slope Minimums(Pfmin):  No
Unbalanced Snow Loads:      Yes
Rain Surcharge: No Ice Dam Chk: No
Lu(max) = 20-00-00
```

```
----------Wind Load Specs----------
ASCE7-16  Wind Speed(V) = 137 mph
Risk Cat: II  Exposure Cat: B
Bldg Dims: L = 104.0 ft  B =  70.0 ft
M.R.H(h)=  25.0ft Kzt = 1.0 Ke = 1.00
Bldg Enclosure: Enclosed
Wind DL(psf): TC =  6.0 BC =  6.0
End Vertical Exposed: L = Yes R = Yes
Wind Uplift Reporting: ASCE7 MWFRS
C&C End Zone: 7-00-00
```

```
-------Additional Design Checks------
10 psf Non-Concurrent BCLL:       Yes
20 psf BC Limited Storage:        Yes
200 lb BC Accessible Ceiling:     Yes
300 lb TC Maintenance Load:       Yes
2000 lb TC Safe Load:             No
Unbalanced TCLL:                  Yes
```

Material Summary

```
TC      2x4   SPF  #1/#2
BC      2x4   SPF  #1/#2
Webs    2x4   SPF  #1/#2
Slider  2x4   SPF  #1/#2
```

Member Forces Summary

```
Max CSI in TC PANEL   2 -  3   0.12
Max CSI in BC PANEL   1 -  8   0.07
Max CSI in Web        8 -  3   0.04

...Mem...   Ten     Comp     .CSI.
TC   1- 4    172      146     0.12
     4- 7    172      146     0.12
BC   1- 7     98       46     0.07
Web  1- 2      4        5     0.02
     3- 8    217      344     0.04
     4- 9     29      179     0.02
     5-10    217      344     0.04
     6- 7      4        5     0.02
```

Reaction Summary

```
--------------Reaction Summary(Lbs)----------------
Jnt  --X-Loc- React -Up- --Width- -Reqd   -Mat  PSI
  8   3-00-00   410   29 10-00-00
 10   7-00-00   410   29 10-00-00
Max Horiz =    -27 /    +27 at Joint   9
Reactions not shown: down < 400 and up < 150
---- Reaction Summary (plf) -----
Jnt-Jnt       React -Up- --Width-
  1- 7          37    1 10-00-00  (reduced)
```

Loads Summary

This truss has been designed for the effects of an unbalanced top chord live load occurring at [5-00-00] using a 1.00 Full and 0.00 Reduced load factor.

See Loadcase Report for load combinations and additional details.
Snow load reported as Live Load. Roof Live Load = 40.0 psf

Notes

If this truss is exposed to wind load perpendicular to the plane of the truss, gable studs must be braced according to the Construction Documents, BCSI-B3, or a gable stud bracing detail matching the design wind speed shown. Lateral bracing of the truss itself to resist out-of-plane wind load must be in accordance with the Construction Documents.
The maximum rake overhang length is 12.0".
Plates designed for Cq at 0.80 and Rotational Tolerance of 10.0 degrees.
Plates located at TC pitch breaks meet the prescriptive minimum size requirement to transfer unblocked diaphragm loads across those joints.
Lumber and plating have been applied symmetrically.

Deflection Summary

```
TrussSpan Limit  Actual(in)    Location
Vert LL   L/240  L/999(-0.00)  1- 8
Vert DL   L/120  L/999(-0.00)  1- 8
Vert CR   L/180  L/999(-0.00)  1- 8
Horz LL   0.75in       ( 0.00) @Jt 1
Horz CR   1.25in       ( 0.00) @Jt 1
```

Bracing Data Summary

```
------------Bracing Data------------
Chords; continuous except where shown
Web Bracing -- None
```

Plate offsets (X, Y):

(None unless indicated below)

5/27/2025

SIMPSON StrongTie

Component Solutions
Truss Studio V
2024.3.2.1

EngDrwg: 2021r5RGT_Eng

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Date: 05 / 26 / 25
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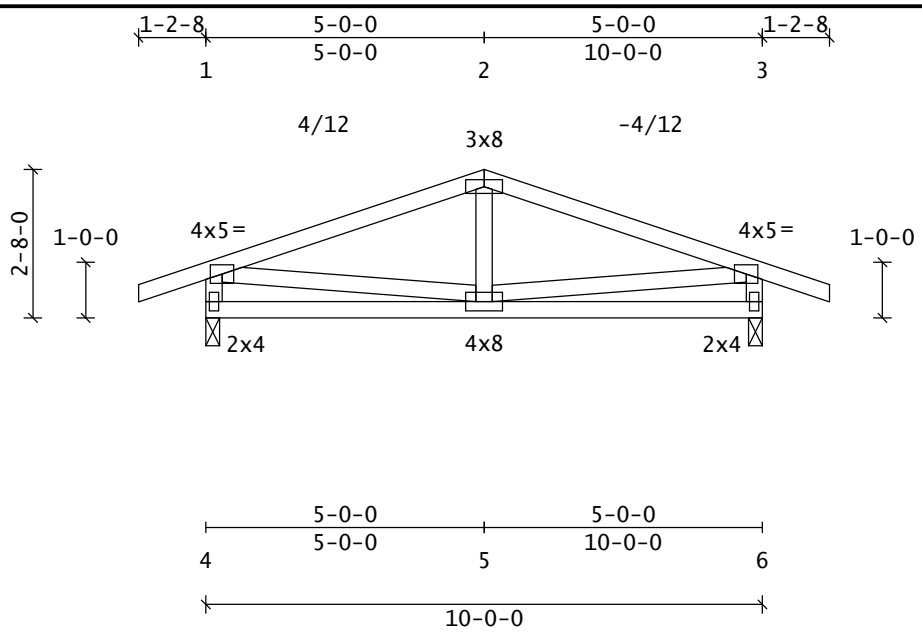

Truss Weight = 46.2 lb

```
Code/Design: IBC-2021/TPI-2014
PSF  Live  Dead        Dur Factors
TC   40.0  10.0      Live  Wind  Snow
BC    0.0  10.0  Lum 1.15  1.60  1.15
Total      60.0  Plt 1.15  1.60  1.15
Spacing:  2-00-00 o.c.    Plies: 1
Repetitive Member Increase: Yes
Green Lumber:  No  Wet Service:  No
Fab Tolerance:  20% Creep (Kcr) = 2.0
OH Soffit Load:  2.0 psf
```

```
----------Snow Load Specs----------
ASCE7-16 Roof Snow (Pf) = 40.0 psf
Risk Cat: II  Terrain Cat: B
Roof Exposure: Sheltered
Thermal Condition: Unheated(1.2)
Unobstructed Slippery Roof: No
Low-Slope Minimums(Pfmin):  No
Unbalanced Snow Loads:      Yes
Rain Surcharge: No Ice Dam Chk: No
Lu(max) = 20-00-00
```

```
----------Wind Load Specs----------
ASCE7-16  Wind Speed(V) = 137 mph
Risk Cat: II  Exposure Cat: B
Bldg Dims: L = 104.0 ft  B =  70.0 ft
M.R.H(h)=  25.0ft Kzt = 1.0 Ke = 1.00
Bldg Enclosure: Enclosed
Wind DL(psf): TC =  6.0 BC =  6.0
End Vertical Exposed: L = Yes R = Yes
Wind Uplift Reporting: ASCE7 MWFRS
C&C End Zone: 7-00-00
```

```
-------Additional Design Checks------
10 psf Non-Concurrent BCLL:       Yes
20 psf BC Limited Storage:        Yes
200 lb BC Accessible Ceiling:     Yes
300 lb TC Maintenance Load:       Yes
2000 lb TC Safe Load:             No
Unbalanced TCLL:                  Yes
```

Material Summary

```
TC      2x4   SPF  #1/#2
BC      2x4   SPF  #1/#2
Webs    2x4   SPF  #1/#2
```

Member Forces Summary

```
Max CSI in TC PANEL   1 -  2   0.62
Max CSI in BC PANEL   4 -  5   0.31
Max CSI in Web        1 -  5   0.16

...Mem...    Ten     Comp     .CSI.
TC  OH- 1     59        0     0.30
     1- 2    337      774     0.62
     2- 3    337      774     0.62
     3-OH     59        0     0.30
BC  OH- 4      0        0     0.00
     4- 5      0       25     0.31
     5- 6      0        7     0.31
     6-OH      0        0     0.00
Web  1- 4    386      800     0.10
     1- 5    677      219     0.16
     2- 5    154       91     0.03
     3- 5    677      219     0.16
     3- 6    386      800     0.10
```

Reaction Summary

```
--------------Reaction Summary(Lbs)----------------
Jnt  --X-Loc- React -Up- --Width- -Reqd   -Mat  PSI
  4     01-12   843   53    03-00 01-08    SPF  425
  6   9-10-04   843   53    03-00 01-08    SPF  425
Max Horiz =    -25 /    +25 at Joint   4
```

Loads Summary

This truss has been designed for the effects of an unbalanced top chord live load occurring at [5-00-00] using a 1.00 Full and 0.00 Reduced load factor.

See Loadcase Report for load combinations and additional details.
Snow load reported as Live Load. Roof Live Load = 40.0 psf

Notes

Plates designed for Cq at 0.80 and Rotational Tolerance of 10.0 degrees.
Plates located at TC pitch breaks meet the prescriptive minimum size requirement to transfer unblocked diaphragm loads across those joints.
Lumber and plating have been applied symmetrically.

Deflection Summary

```
TrussSpan Limit  Actual(in)    Location
Vert LL   L/240   L/999(-0.02)  4- 5
Vert DL   L/120   L/999(-0.02)  4- 5
Vert CR   L/180   L/999(-0.04)  4- 5
Horz LL   0.75in       ( 0.00) @Jt 6
Horz CR   1.25in       ( 0.00) @Jt 6
Ohng CR  2L/180  2L/999(-0.02)  1- 1
Ohng CR  2L/180  2L/999(-0.02)  3- 3
```

Bracing Data Summary

```
------------Bracing Data------------
Chords; continuous except where shown
Web Bracing -- None
```

Plate offsets (X, Y):

(None unless indicated below)

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SIMPSON Strong-Tie

Component Solutions
Truss Studio V
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EngDrwg: 2021r5RGT_Eng

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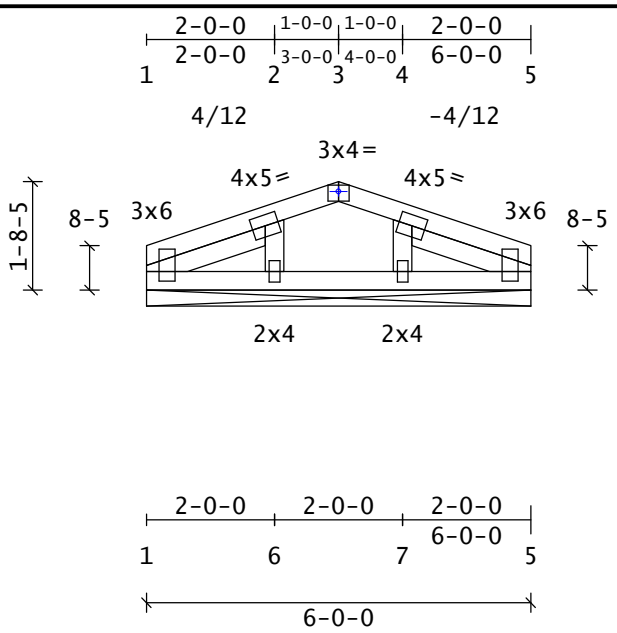

Truss Weight = 26.8 lb

```
Code/Design: IBC-2021/TPI-2014
PSF  Live  Dead        Dur Factors
TC   40.0  10.0      Live  Wind  Snow
BC    0.0  10.0  Lum 1.15  1.60  1.15
Total      60.0  Plt 1.15  1.60  1.15
Spacing:  2-00-00 o.c.    Plies: 1
Repetitive Member Increase: Yes
Green Lumber:  No  Wet Service:  No
Fab Tolerance:  20% Creep (Kcr) = 2.0
OH Soffit Load:  2.0 psf
```

```
----------Snow Load Specs----------
ASCE7-16 Roof Snow (Pf) = 40.0 psf
Risk Cat: II  Terrain Cat: B
Roof Exposure: Sheltered
Thermal Condition: Unheated(1.2)
Unobstructed Slippery Roof: No
Low-Slope Minimums(Pfmin):  No
Unbalanced Snow Loads:      Yes
Rain Surcharge: No Ice Dam Chk: No
Lu(max) = 20-00-00
```

```
----------Wind Load Specs----------
ASCE7-16  Wind Speed(V) = 137 mph
Risk Cat: II  Exposure Cat: B
Bldg Dims: L = 104.0 ft  B =  70.0 ft
M.R.H(h)=  25.0ft Kzt = 1.0 Ke = 1.00
Bldg Enclosure: Enclosed
Wind DL(psf): TC =  6.0 BC =  6.0
End Vertical Exposed: L = Yes R = Yes
Wind Uplift Reporting: ASCE7 MWFRS
C&C End Zone: 7-00-00
```

```
-------Additional Design Checks------
10 psf Non-Concurrent BCLL:       Yes
20 psf BC Limited Storage:        Yes
200 lb BC Accessible Ceiling:     Yes
300 lb TC Maintenance Load:       Yes
2000 lb TC Safe Load:             No
Unbalanced TCLL:                  Yes
```

Material Summary

```
TC      2x4   SPF  #1/#2
BC      2x4   SPF  #1/#2
Webs    2x4   SPF  #1/#2
Slider  2x4   SPF  #1/#2
```

Member Forces Summary

```
Max CSI in TC PANEL   1 -  2   0.03
Max CSI in BC PANEL   1 -  6   0.03
Max CSI in Web        6 -  2   0.02

...Mem...    Ten     Comp      .CSI.
TC   1- 2     84      109       0.03
     2- 3    133      132       0.03
     3- 4    133      132       0.03
     4- 5     84      108       0.03
BC   1- 5    106       35       0.03
Web  1- 2     42       80       0.01
     2- 6    142      185       0.02
     4- 5     42       81       0.01
     4- 7    142      185       0.02
```

Reaction Summary

```
Max Horiz =    -15 /    +15 at Joint   6
Reactions not shown: down < 400 and up < 150
---- Reaction Summary (plf) -----
Jnt-Jnt       React -Up- --Width-
  1-  5         119    7  6-00-00
```

Loads Summary

This truss has been designed for the effects of an unbalanced top chord live load occurring at [3-00-00] using a 1.00 Full and 0.00 Reduced load factor.

See Loadcase Report for load combinations and additional details.
Snow load reported as Live Load. Roof Live Load = 40.0 psf

Notes

If this truss is exposed to wind load perpendicular to the plane of the truss, gable studs must be braced according to the Construction Documents, BCSI-B3, or a gable stud bracing detail matching the design wind speed shown. Lateral bracing of the truss itself to resist out-of-plane wind load must be in accordance with the Construction Documents.
The maximum rake overhang length is 12.0".
Plates designed for Cq at 0.80 and Rotational Tolerance of 10.0 degrees.
Plates located at TC pitch breaks meet the prescriptive minimum size requirement to transfer unblocked diaphragm loads across those joints.
Lumber and plating have been applied symmetrically.

Deflection Summary

```
TrussSpan Limit  Actual(in)    Location
Vert LL   L/240   L/999(-0.00)  6- 7
Vert DL   L/120   L/999(-0.00)  6- 7
Vert CR   L/180   L/999(-0.00)  6- 7
Horz LL   0.75in       ( 0.00) @Jt 5
Horz CR   1.25in       ( 0.00) @Jt 5
```

Bracing Data Summary

```
------------Bracing Data------------
Chords; continuous except where shown
Web Bracing -- None
```

Plate offsets (X, Y):

(None unless indicated below)
Jnt3(0,-00-05)

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SIMPSON Strong-Tie

Component Solutions
Truss Studio V
2024.3.2.1

EngDrwg: 2021r5RGT_Eng

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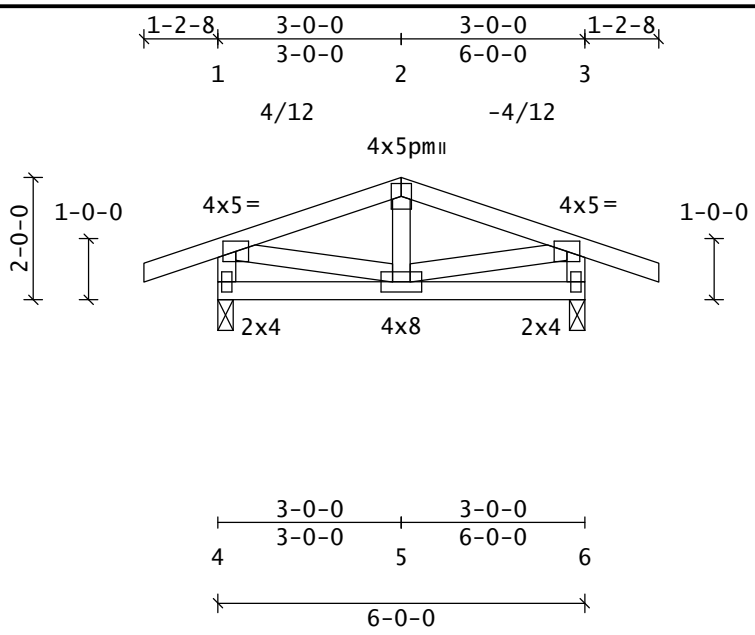

Truss Weight = 32.3 lb

```
Code/Design: IBC-2021/TPI-2014
PSF  Live  Dead        Dur Factors
TC   40.0  10.0      Live  Wind  Snow
BC    0.0  10.0  Lum 1.15  1.60  1.15
Total      60.0  Plt 1.15  1.60  1.15
Spacing:  2-00-00 o.c.    Plies: 1
Repetitive Member Increase: Yes
Green Lumber:  No  Wet Service:  No
Fab Tolerance:  20% Creep (Kcr) = 2.0
OH Soffit Load:  2.0 psf
```

```
----------Snow Load Specs----------
ASCE7-16 Roof Snow (Pf) = 40.0 psf
Risk Cat: II  Terrain Cat: B
Roof Exposure: Sheltered
Thermal Condition: Unheated(1.2)
Unobstructed Slippery Roof: No
Low-Slope Minimums(Pfmin):  No
Unbalanced Snow Loads:      Yes
Rain Surcharge: No Ice Dam Chk: No
Lu(max) = 20-00-00
```

```
----------Wind Load Specs----------
ASCE7-16  Wind Speed(V) = 137 mph
Risk Cat: II  Exposure Cat: B
Bldg Dims: L = 104.0 ft  B =  70.0 ft
M.R.H(h)=  25.0ft Kzt = 1.0 Ke = 1.00
Bldg Enclosure: Enclosed
Wind DL(psf): TC =  6.0 BC =  6.0
End Vertical Exposed: L = Yes R = Yes
Wind Uplift Reporting: ASCE7 MWFRS
C&C End Zone: 7-00-00
```

```
-------Additional Design Checks------
10 psf Non-Concurrent BCLL:       Yes
20 psf BC Limited Storage:        Yes
200 lb BC Accessible Ceiling:     Yes
300 lb TC Maintenance Load:       Yes
2000 lb TC Safe Load:             No
Unbalanced TCLL:                  Yes
```

Material Summary

```
TC      2x4   SPF  #1/#2
BC      2x4   SPF  #1/#2
Webs    2x4   SPF  #1/#2
```

Member Forces Summary

```
Max CSI in TC PANEL   1 -  1   0.30
Max CSI in BC PANEL   4 -  5   0.12
Max CSI in Web        4 -  1   0.07

...Mem...    Ten     Comp     .CSI.
TC  OH- 1     59        0     0.30
     1- 2    186      364     0.29
     2- 3    186      364     0.29
     3-OH     59        0     0.30
BC  OH- 4      0        0     0.00
     4- 5      0       13     0.12
     5- 6      0        8     0.12
     6-OH      0        0     0.00
Web  1- 4    343      556     0.07
     1- 5    315       79     0.07
     2- 5     97       96     0.02
     3- 5    315       79     0.07
     3- 6    343      556     0.07
```

Reaction Summary

```
--------------Reaction Summary(Lbs)----------------
Jnt  --X-Loc- React -Up- --Width- -Reqd   -Mat  PSI
  4     01-12   583   40    03-00 01-08    SPF  425
  6   5-10-04   583   40    03-00 01-08    SPF  425
Max Horiz =    -13 /    +13 at Joint   4
```

Loads Summary

This truss has been designed for the effects of an unbalanced top chord live load occurring at [3-00-00] using a 1.00 Full and 0.00 Reduced load factor.

See Loadcase Report for load combinations and additional details.
Snow load reported as Live Load. Roof Live Load = 40.0 psf

Notes

Plates designed for Cq at 0.80 and Rotational Tolerance of 10.0 degrees.
Plates located at TC pitch breaks meet the prescriptive minimum size requirement to transfer unblocked diaphragm loads across those joints.
A "pm" next to the plate size indicates that the plate has been user modified; see Plate Offsets for any special positioning requirements.
Lumber and plating have been applied symmetrically.

Deflection Summary

```
TrussSpan Limit  Actual(in)    Location
Vert LL   L/240   L/999(-0.00)  4- 5
Vert DL   L/120   L/999(-0.00)  4- 5
Vert CR   L/180   L/999(-0.01)  4- 5
Horz LL   0.75in       ( 0.00) @Jt 6
Horz CR   1.25in       ( 0.00) @Jt 6
Ohng CR  2L/180  2L/999(-0.02)  1- 1
Ohng CR  2L/180  2L/999(-0.02)  3- 3
```

Bracing Data Summary

```
------------Bracing Data------------
Chords; continuous except where shown
Web Bracing -- None
```

Plate offsets (X, Y):

(None unless indicated below)

5/27/2025

SIMPSON StrongTie

Component Solutions
Truss Studio V
2024.3.2.1

EngDrwg: 2021r5RGT_Eng

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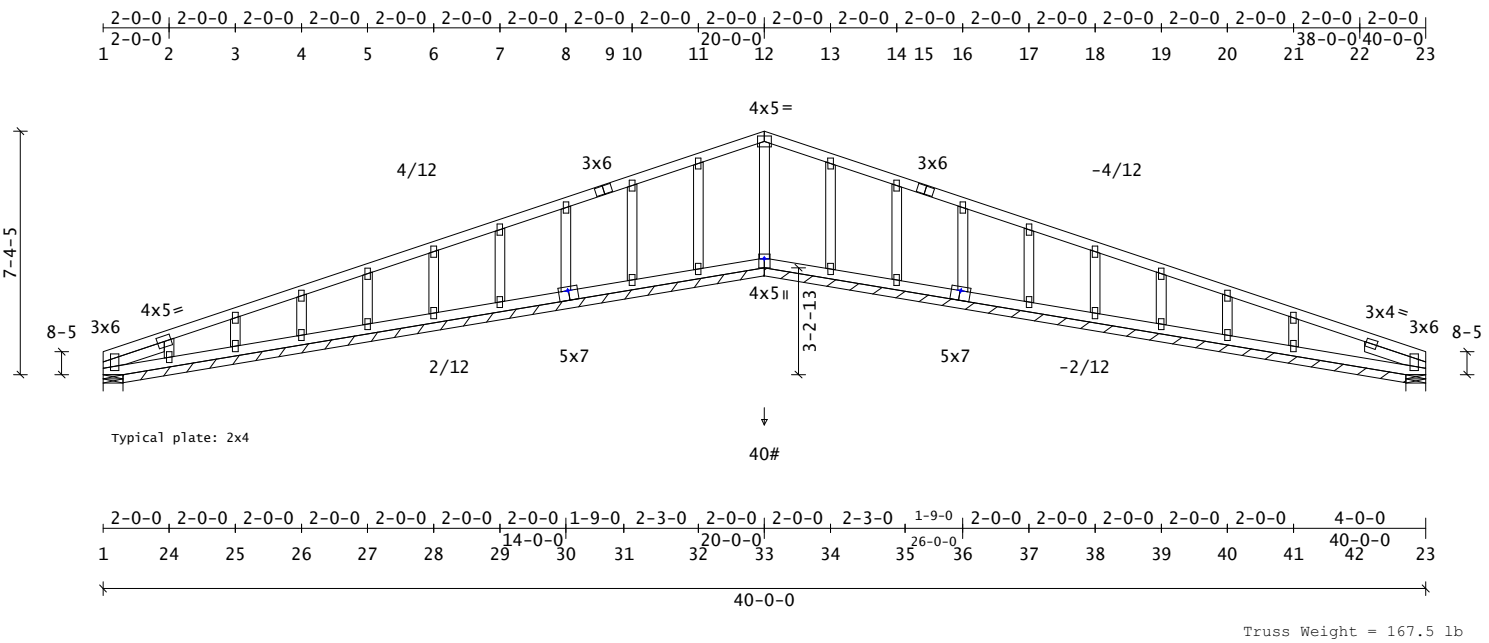

Truss Weight = 167.5 lb

```
Code/Design: IBC-2021/TPI-2014
PSF  Live  Dead        Dur Factors
TC   40.0  10.0      Live  Wind  Snow
BC    0.0  10.0  Lum 1.15  1.60  1.15
Total      60.0  Plt 1.15  1.60  1.15
Spacing:  2-00-00 o.c.    Plies: 1
Repetitive Member Increase:  No
Green Lumber:  No  Wet Service:  No
Fab Tolerance:  20% Creep (Kcr) = 2.0
OH Soffit Load:  2.0 psf
```

```
----------Snow Load Specs----------
ASCE7-16 Roof Snow (Pf) = 40.0 psf
Risk Cat: II  Terrain Cat: B
Roof Exposure: Sheltered
Thermal Condition: Unheated(1.2)
Unobstructed Slippery Roof: No
Low-Slope Minimums(Pfmin):  No
Unbalanced Snow Loads:      Yes
Rain Surcharge: No Ice Dam Chk: No
Lu(max) = 21-02-08
```

```
----------Wind Load Specs----------
ASCE7-16  Wind Speed(V) = 137 mph
Risk Cat: II  Exposure Cat: B
Bldg Dims: L = 104.0 ft  B =  70.0 ft
M.R.H(h)=  25.0ft Kzt = 1.0 Ke = 1.00
Bldg Enclosure: Enclosed
Wind DL(psf): TC =  6.0 BC =  6.0
End Vertical Exposed: L = Yes R = Yes
Wind Uplift Reporting: ASCE7 MWFRS
C&C End Zone: 7-00-00
```

```
-------Additional Design Checks------
10 psf Non-Concurrent BCLL:       Yes
20 psf BC Limited Storage:        Yes
200 lb BC Accessible Ceiling:     Yes
300 lb TC Maintenance Load:       Yes
2000 lb TC Safe Load:             No
Unbalanced TCLL:                  Yes
```

Material Summary

```
TC      2x4   SPF  #1/#2
BC      2x4   SPF  #1/#2
Webs    2x4   SPF  #1/#2
Slider  2x4   SPF  #1/#2
```

Member Forces Summary

```
Max CSI in TC PANEL  20 - 21   0.20
Max CSI in BC PANEL  42 - 23   0.21
Max CSI in Web       22 - 23   0.08

...Mem...    Ten      Comp      .CSI.
TC   1- 9    191        90      0.09
     9-12    250       113      0.10
    12-15    246       113      0.10
    15-23     46       110      0.20
BC   1-30     98        52      0.02
    23-36     78        16      0.21
    30-33     83        19      0.02
    33-36     83        20      0.02
Web  1- 2     46        56      0.01
     2-24     74       196      0.02
     3-25     72       212      0.02
     4-26     65       225      0.02
     5-27     66       225      0.03
     6-28     65       224      0.03
     7-29     69       225      0.03
     8-30    120       273      0.05
    10-31    128       270      0.05
    11-32    129       292      0.07
    12-33      0       193      0.05
    13-34    129       292      0.07
    14-35    128       269      0.05
    16-36    120       274      0.05
    17-37     69       224      0.03
    18-38     65       224      0.03
    19-39     70       209      0.03
    20-40     47       216      0.02
    21-41    116       313      0.04
    22-23     12        78      0.08
```

Reaction Summary

```
--------------Reaction Summary(Lbs)----------------
Jnt  --X-Loc-  React -Up- --Width- -Reqd   -Mat  PSI
  1     03-10   159    4    07-04 01-08    SPF  425
 23  39-08-06   194    0    07-04 01-08    SPF  425
Max Horiz =   -113 /   +113 at Joint  29
Reactions not shown: down < 400 and up < 150
---- Reaction Summary (plf) -----
Jnt-Jnt       React -Up- --Width-
  1- 33         135    3 19-04-12
 33- 23         121    9 19-04-12
```

Loads Summary

This truss has been designed for the effects of an unbalanced top chord live load occurring at [20-00-00] using a 1.00 Full and 0.00 Reduced load factor.

See Loadcase Report for load combinations and additional details.
Loads based on maximum and minimum reactions from tie-in spans

```
 Mbr       Max    Min  Location   Dir   Description
 User loads:
  BC        40     24  20-00-00   Vert  Feature beam @ 90 Deg
```

Snow load reported as Live Load. Roof Live Load = 40.0 psf

Notes

If this truss is exposed to wind load perpendicular to the plane of the truss, gable studs must be braced according to the Construction Documents, BCSI-B3, or a gable stud bracing detail matching the design wind speed shown. Lateral bracing of the truss itself to resist out-of-plane wind load must be in accordance with the Construction Documents.
The maximum rake overhang length is 12.0".
Plates designed for Cq at 0.80 and Rotational Tolerance of 10.0 degrees.
Plates located at TC pitch breaks meet the prescriptive minimum size requirement to transfer unblocked diaphragm loads across those joints.

Deflection Summary

```
TrussSpan Limit  Actual(in)   Location
Vert LL   L/240  L/999(-0.00) 42-23
Vert DL   L/120  L/999(-0.00) 42-23
Vert CR   L/180  L/999(-0.01) 42-23
Horz LL   0.75in      ( 0.01) @Jt23
Horz CR   1.25in      ( 0.01) @Jt23
```

Bracing Data Summary

```
------------Bracing Data------------
Chords; continuous except where shown
Web Bracing -- None
```

Plate offsets (X, Y):

(None unless indicated below)
Jnt30(00-03,-01-00), Jnt33(0,-00-12), Jnt36(-00-03,-01-00)

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SIMPSON StrongTie

Component Solutions
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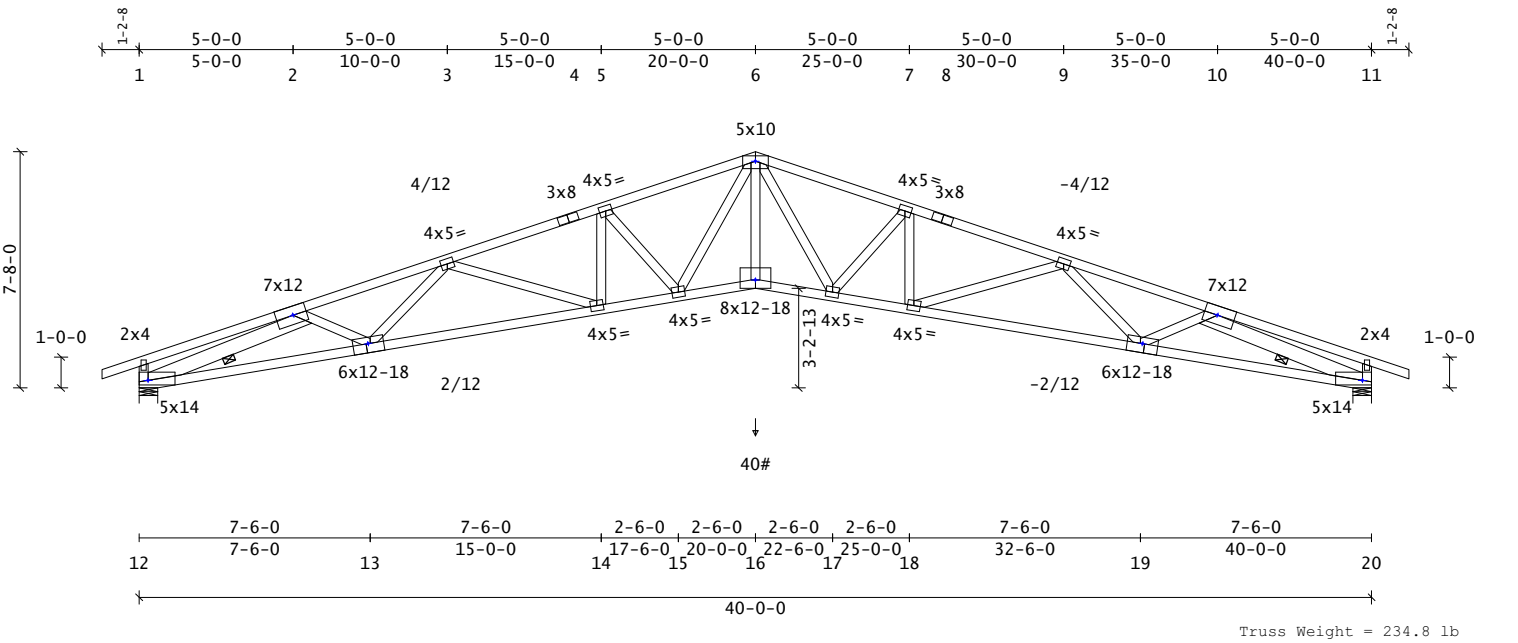

Truss Weight = 234.8 lb

```
Code/Design: IBC-2021/TPI-2014
PSF  Live  Dead        Dur Factors
TC    40.0  10.0       Live  Wind  Snow
BC     0.0  10.0  Lum 1.15  1.60  1.15
Total      60.0  Plt 1.15  1.60  1.15
Spacing:  2-00-00 o.c.    Plies: 1
Repetitive Member Increase:  No
Green Lumber:  No  Wet Service:  No
Fab Tolerance:  20% Creep (Kcr) = 2.0
OH Soffit Load:  2.0 psf
```

```
----------Snow Load Specs----------
ASCE7-16 Roof Snow (Pf) = 40.0 psf
Risk Cat: II  Terrain Cat: B
Roof Exposure: Sheltered
Thermal Condition: Unheated(1.2)
Unobstructed Slippery Roof: No
Low-Slope Minimums(Pfmin):  No
Unbalanced Snow Loads:      Yes
Rain Surcharge: No Ice Dam Chk: No
Lu(max) = 21-02-08
```

```
----------Wind Load Specs----------
ASCE7-16  Wind Speed(V) = 137 mph
Risk Cat: II  Exposure Cat: B
Bldg Dims: L = 104.0 ft  B =  70.0 ft
M.R.H(h)=  25.0ft Kzt = 1.0 Ke = 1.00
Bldg Enclosure: Enclosed
Wind DL(psf): TC =  6.0 BC =  6.0
End Vertical Exposed: L = Yes R = Yes
Wind Uplift Reporting: ASCE7 MWFRS
C&C End Zone: 7-00-00
```

```
-------Additional Design Checks------
10 psf Non-Concurrent BCLL:       Yes
20 psf BC Limited Storage:        Yes
200 lb BC Accessible Ceiling:     Yes
300 lb TC Maintenance Load:       Yes
2000 lb TC Safe Load:             No
Unbalanced TCLL:                  Yes
```

Material Summary

```
TC      2x4   SPF  1650/1.5
BC      2x4   SPF  2100/1.8
Webs    2x4   SPF  #1/#2
        2x6   SPF  #1/#2 10-20 12-2
```

Member Forces Summary

```
Max CSI in TC PANEL   3 -  4   0.99
Max CSI in BC PANEL  13 - 14   0.95
Max CSI in Web       12 -  2   0.87
```

...Mem...	Ten	Comp	.CSI.
TC OH- 1	51	0	0.21
1- 2	87	77	0.46
2- 3	1371	7404	0.98
3- 4	1478	7316	0.99
4- 5	1482	7190	0.86
5- 6	1392	6714	0.91
6- 7	1328	6714	0.91
7- 8	1419	7190	0.86
8- 9	1415	7316	0.99
9-10	1322	7404	0.98
10-11	87	77	0.46
11-OH	51	0	0.21
BC OH-12	2	0	0.00
12-13	6468	1242	0.88
13-14	7365	1395	0.95
14-15	6959	1301	0.81
15-16	5917	949	0.70
16-17	5917	949	0.70
17-18	6959	1160	0.81
18-19	7365	1261	0.95
19-20	6468	1122	0.88
20-OH	2	0	0.00
Web 1-12	131	384	0.05
2-12	1284	7112	0.87
2-13	693	22	0.17
3-13	191	468	0.13
3-14	108	613	0.30
5-14	424	0	0.09
5-15	298	1099	0.30
6-15	1188	300	0.29
6-16	2086	265	0.51
6-17	1188	304	0.29
7-17	302	1099	0.30
7-18	424	0	0.09
9-18	108	613	0.30
9-19	182	468	0.13
10-19	693	14	0.17
10-20	1240	7112	0.87
11-20	131	384	0.05

Reaction Summary

```
--------------Reaction Summary(Lbs)----------------
Jnt  --X-Loc- React -Up- --Width- -Reqd   -Mat  PSI
 12     01-12  2545  143    07-04 04-00    SPF  425
 20  39-10-04  2545  143    07-04 04-00    SPF  425
Max Horiz =   -111 /   +111 at Joint  12
```

Loads Summary

This truss has been designed for the effects of an unbalanced top chord live load occurring at [20-00-00] using a 1.00 Full and 0.00 Reduced load factor.

See Loadcase Report for load combinations and additional details.
Loads based on maximum and minimum reactions from tie-in spans

```
 Mbr       Max    Min  Location   Dir   Description
 User loads:
  BC        40     24  20-00-00   Vert  Future Beam Load @ 90 Deg
```

Snow load reported as Live Load. Roof Live Load = 40.0 psf

Notes

Plates designed for Cq at 0.80 and Rotational Tolerance of 10.0 degrees.
Plates located at TC pitch breaks meet the prescriptive minimum size requirement to transfer unblocked diaphragm loads across those joints.
Continuous Lateral Restraint (CLR) rows require diagonal bracing per D-WEBCLRBRACE. Alternatively, see D-WEBREINFORCE.
Lumber and plating have been applied symmetrically.

Deflection Summary

```
TrussSpan Limit  Actual(in)    Location
Vert LL   L/240   L/420(-1.13) 15-16
Vert DL   L/120   L/811(-0.59) 16-17
Vert CR   L/180   L/276(-1.72) 16-17
Horz LL   0.75in       ( 0.62) @Jt20
Horz CR   1.25in       ( 0.94) @Jt20
Ohng CR  2L/180  2L/999(-0.01)  1- 1
Ohng CR  2L/180  2L/999(-0.01) 11-11
```

Bracing Data Summary

```
------------Bracing Data------------
Chords; continuous except where shown
------- Web Bracing -- CLR -----------
Single:   12- 2 10-20
Continuous Restraint Bracing Req'd
See BCSI-B3 3.0
```

Plate offsets (X, Y):

(None unless indicated below)
Jnt2(-00-11,-00-04), Jnt6(0,-00-08), Jnt10(00-11,-00-04), Jnt12(03-08,00-11), Jnt13(00-01,-00-08), Jnt16(0,00-12), Jnt19(-00-01,-00-08), Jnt20(-03-08,00-11)

5/27/2025

SIMPSON StrongTie

Component Solutions
Truss Studio V
2024.3.2.1

EngDrwg: 2021r5RGT_Eng

SID: 0003572595
TID: 273891
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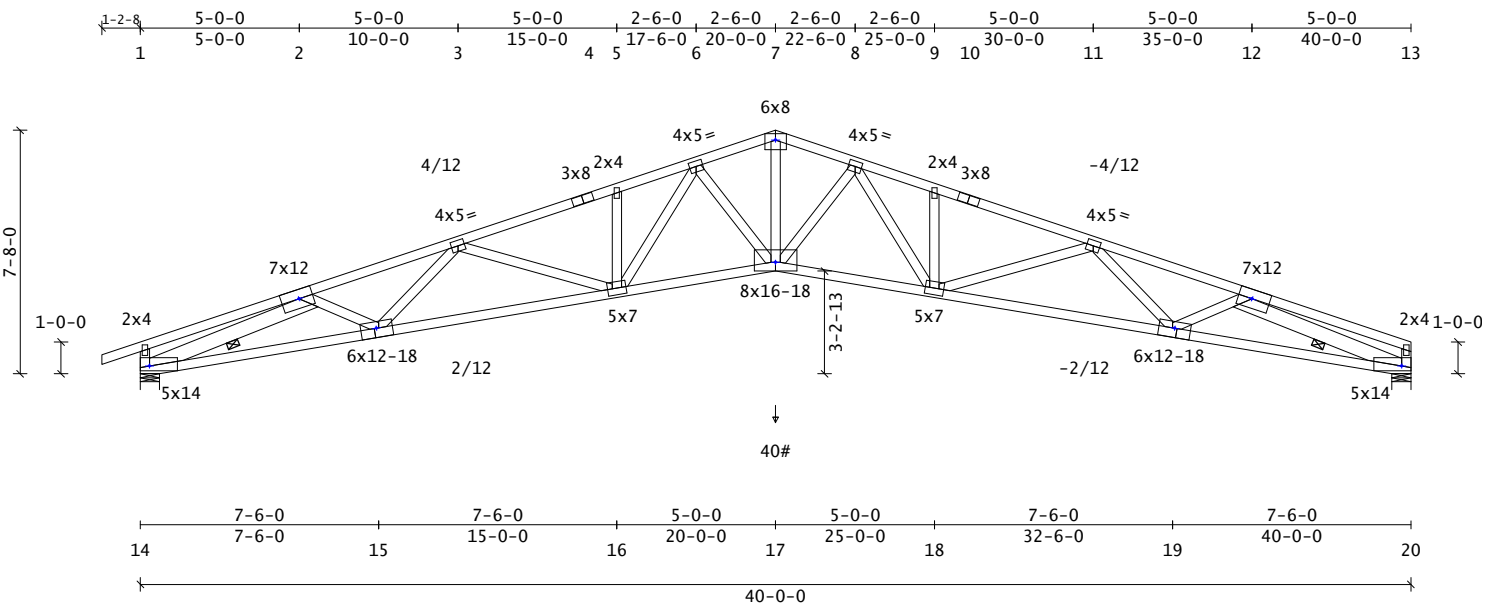

Truss Weight = 240.0 lb

Code/Design: IBC-2021/TPI-2014

PSF	Live	Dead	Dur Factors		
TC	40.0	10.0	Live	Wind	Snow
BC	0.0	10.0 Lum	1.15	1.60	1.15
Total	60.0	Plt	1.15	1.60	1.15

Spacing: 2-00-00 o.c. Plies: 1
Repetitive Member Increase: No
Green Lumber: No Wet Service: No
Fab Tolerance: 20% Creep (Kcr) = 2.0
OH Soffit Load: 2.0 psf

----------Snow Load Specs----------
ASCE7-16 Roof Snow (Pf) = 40.0 psf
Risk Cat: II Terrain Cat: B
Roof Exposure: Sheltered
Thermal Condition: Unheated(1.2)
Unobstructed Slippery Roof: No
Low-Slope Minimums(Pfmin): No
Unbalanced Snow Loads: Yes
Rain Surcharge: No Ice Dam Chk: No
Lu(max) = 21-02-08

----------Wind Load Specs----------
ASCE7-16 Wind Speed(V) = 137 mph
Risk Cat: II Exposure Cat: B
Bldg Dims: L = 104.0 ft B = 70.0 ft
M.R.H(h)= 25.0ft Kzt = 1.0 Ke = 1.00
Bldg Enclosure: Enclosed
Wind DL(psf): TC = 6.0 BC = 6.0
End Vertical Exposed: L = Yes R = Yes
Wind Uplift Reporting: ASCE7 MWFRS
C&C End Zone: 7-00-00

-------Additional Design Checks------

10 psf Non-Concurrent BCLL:	Yes
20 psf BC Limited Storage:	Yes
200 lb BC Accessible Ceiling:	Yes
300 lb TC Maintenance Load:	Yes
2000 lb TC Safe Load:	No
Unbalanced TCLL:	Yes

Material Summary

TC	2x4	SPF	2100/1.8		
	2x4	SPF	1650/1.5	4-7	7-10
BC	2x4	SPF	2100/1.8		
Webs	2x4	SPF	#1/#2		
	2x6	SPF	#1/#2 12-20 14-2		

Member Forces Summary

Max CSI in TC PANEL	3 - 4	0.86
Max CSI in BC PANEL	15 - 16	0.95
Max CSI in Web	14 - 2	0.87

...Mem...		Ten	Comp	.CSI.
TC	OH- 1	51	0	0.16
	1- 2	85	78	0.39
	2- 3	1388	7405	0.82
	3- 4	1480	7301	0.86
	4- 5	1484	7175	0.72
	5- 6	1566	7277	0.74
	6- 7	1265	6165	0.53
	7- 8	1272	6165	0.53
	8- 9	1497	7279	0.76
	9-10	1415	7177	0.74
	10-11	1411	7303	0.86
	11-12	1338	7413	0.80
	12-13	87	71	0.41
	13-OH	5	0	0.00
BC	OH-14	2	0	0.00
	14-15	6460	1272	0.87
	15-16	7374	1437	0.95
	16-17	6435	1185	0.73
	17-18	6436	1082	0.73
	18-19	7378	1291	0.95
	19-20	6474	1147	0.87
	20-OH	2	0	0.00
Web	1-14	131	388	0.05
	2-14	1294	7104	0.87
	2-15	706	31	0.17
	3-15	198	477	0.13
	3-16	111	647	0.32
	5-16	230	541	0.11
	6-16	1176	263	0.29
	6-17	316	1057	0.32
	7-17	3521	670	0.86
	8-17	321	1074	0.33
	8-18	1202	268	0.29
	9-18	230	556	0.12
	11-18	108	656	0.33
	11-19	184	453	0.12
	12-19	681	18	0.16
	12-20	1268	7118	0.87
	13-20	76	239	0.03

Reaction Summary

----------Reaction Summary(Lbs)----------

Jnt	--X-Loc-	React	-Up-	--Width-	-Reqd	-Mat	PSI
14	01-12	2548	143	07-04	04-00	SPF	425
20	39-10-04	2419	123	07-04	03-13	SPF	425

Max Horiz = -105 / +119 at Joint 14

Loads Summary

This truss has been designed for the effects of an unbalanced top chord live load occurring at [20-00-00] using a 1.00 Full and 0.00 Reduced load factor.

See Loadcase Report for load combinations and additional details.
Loads based on maximum and minimum reactions from tie-in spans

Mbr	Max	Min	Location	Dir	Description
User loads:					
BC	40	24	20-00-00	Vert	Feature Beam Load @ 90 Deg

Snow load reported as Live Load. Roof Live Load = 40.0 psf

Notes

Plates designed for Cq at 0.80 and Rotational Tolerance of 10.0 degrees.
Plates located at TC pitch breaks meet the prescriptive minimum size requirement to transfer unblocked diaphragm loads across those joints.
Continuous Lateral Restraint (CLR) rows require diagonal bracing per D-WEBCLRBRACE. Alternatively, see D-WEBREINFORCE.

Deflection Summary

Truss	Span	Limit	Actual(in)	Location
Vert LL		L/240	L/436(-1.09)	16-17
Vert DL		L/120	L/840(-0.57)	16-17
Vert CR		L/180	L/287(-1.66)	16-17
Horz LL		0.75in	(0.61)	@Jt20
Horz CR		1.25in	(0.92)	@Jt20
Ohng CR	2L/180	2L/999	(-0.01)	1- 1

Bracing Data Summary

----------Bracing Data----------
Chords; continuous except where shown
------- Web Bracing -- CLR ----------
Single: 14- 2 12-20
Continuous Restraint Bracing Req'd
See BCSI-B3 3.0

Plate offsets (X, Y):

(None unless indicated below)
Jnt2(-00-11,-00-04), Jnt7(0,-00-10), Jnt12(00-11,-00-04), Jnt14(03-08,00-11), Jnt15(00-01,-00-08), Jnt17(0,00-12), Jnt19(-00-01,-00-08), Jnt20(-03-08,00-11)

5/27/2025

SIMPSON StrongTie

Component Solutions
Truss Studio V
2024.3.2.1

EngDrwg: 2021r5RGT_Eng

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TID: 273891
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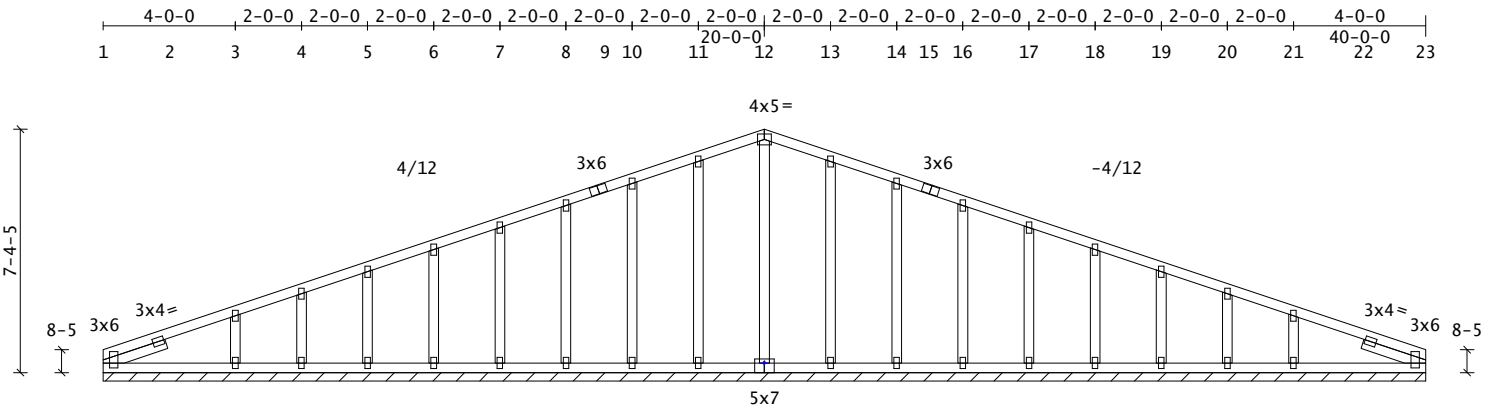
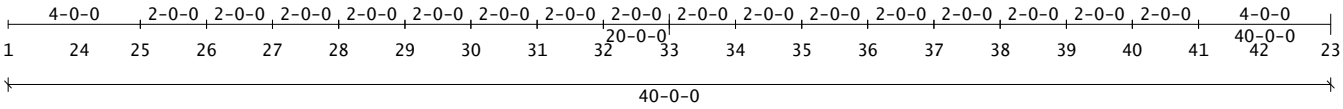


Typical plate: 2x4



Truss Weight = 194.9 lb

```
Code/Design: IBC-2021/TPI-2014
PSF  Live  Dead        Dur Factors
TC    40.0  10.0       Live  Wind  Snow
BC     0.0  10.0  Lum 1.15  1.60  1.15
Total      60.0  Plt 1.15  1.60  1.15
Spacing:  2-00-00 o.c.    Plies: 1
Repetitive Member Increase: Yes
Green Lumber:  No  Wet Service:  No
Fab Tolerance:  20% Creep (Kcr) = 2.0
OH Soffit Load:  2.0 psf
```

```
----------Snow Load Specs----------
ASCE7-16 Roof Snow (Pf) = 40.0 psf
Risk Cat: II  Terrain Cat: B
Roof Exposure: Sheltered
Thermal Condition: Unheated(1.2)
Unobstructed Slippery Roof: No
Low-Slope Minimums(Pfmin):  No
Unbalanced Snow Loads:      Yes
Rain Surcharge: No Ice Dam Chk: No
Lu(max) = 20-00-00
```

```
----------Wind Load Specs----------
ASCE7-16  Wind Speed(V) = 137 mph
Risk Cat: II  Exposure Cat: B
Bldg Dims: L = 104.0 ft  B =  70.0 ft
M.R.H(h)=  25.0ft Kzt = 1.0 Ke = 1.00
Bldg Enclosure: Enclosed
Wind DL(psf): TC =  6.0 BC =  6.0
End Vertical Exposed: L = Yes R = Yes
Wind Uplift Reporting: ASCE7 MWFRS
C&C End Zone: 7-00-00
```

```
-------Additional Design Checks------
10 psf Non-Concurrent BCLL:       Yes
20 psf BC Limited Storage:        Yes
200 lb BC Accessible Ceiling:     Yes
300 lb TC Maintenance Load:       Yes
2000 lb TC Safe Load:             No
Unbalanced TCLL:                  Yes
```

Material Summary

```
TC      2x4   SPF  #1/#2
BC      2x4   SPF  #1/#2
Webs    2x4   SPF  #1/#2
Slider  2x4   SPF  #1/#2
```

Member Forces Summary

```
Max CSI in TC PANEL    2 -  3   0.19
Max CSI in BC PANEL    1 - 24   0.15
Max CSI in Web        32 - 11   0.20
```

...Mem...	Ten	Comp	.CSI.
TC 1- 9	59	124	0.19
9-12	253	123	0.10
12-15	253	123	0.10
15-23	59	124	0.19
BC 1-33	78	34	0.15
23-33	78	34	0.15
Web 1- 2	4	9	0.05
3-25	111	309	0.04
4-26	52	218	0.03
5-27	68	224	0.04
6-28	65	222	0.05
7-29	70	215	0.07
8-30	120	270	0.12
10-31	130	269	0.15
11-32	126	287	0.20
12-33	3	186	0.16
13-34	126	287	0.20
14-35	130	269	0.15
16-36	120	270	0.12
17-37	70	215	0.07
18-38	65	222	0.05
19-39	68	224	0.04
20-40	52	218	0.03
21-41	112	310	0.04
22-23	4	9	0.05

Reaction Summary

```
Max Horiz =   -113 /   +113 at Joint  33
Reactions not shown: down < 400 and up < 150
---- Reaction Summary (plf) -----
Jnt-Jnt       React -Up- --Width-
  1- 23         120     6 40-00-00
```

Loads Summary

This truss has been designed for the effects of an unbalanced top chord live load occurring at [20-00-00] using a 1.00 Full and 0.00 Reduced load factor.

See Loadcase Report for load combinations and additional details.
Snow load reported as Live Load. Roof Live Load = 40.0 psf

Notes

If this truss is exposed to wind load perpendicular to the plane of the truss, gable studs must be braced according to the Construction Documents, BCSI-B3, or a gable stud bracing detail matching the design wind speed shown. Lateral bracing of the truss itself to resist out-of-plane wind load must be in accordance with the Construction Documents.
The maximum rake overhang length is 12.0".
Plates designed for Cq at 0.80 and Rotational Tolerance of 10.0 degrees.
Plates located at TC pitch breaks meet the prescriptive minimum size requirement to transfer unblocked diaphragm loads across those joints.
Lumber and plating have been applied symmetrically.

Deflection Summary

```
TrussSpan Limit  Actual(in)   Location
Vert LL   L/240  L/999(-0.00)  1-24
Vert DL   L/120  L/999(-0.00)  1-24
Vert CR   L/180  L/999(-0.00)  1-24
Horz LL   0.75in       ( 0.01) @Jt23
Horz CR   1.25in       ( 0.01) @Jt23
```

Bracing Data Summary

```
------------Bracing Data------------
Chords; continuous except where shown
Web Bracing -- None
```

Plate offsets (X, Y):

(None unless indicated below)
Jnt33(0,-01-00)

5/27/2025

SIMPSON StrongTie

Component Solutions
Truss Studio V
2024.3.2.1

EngDrwg: 2021r5RGT_Eng

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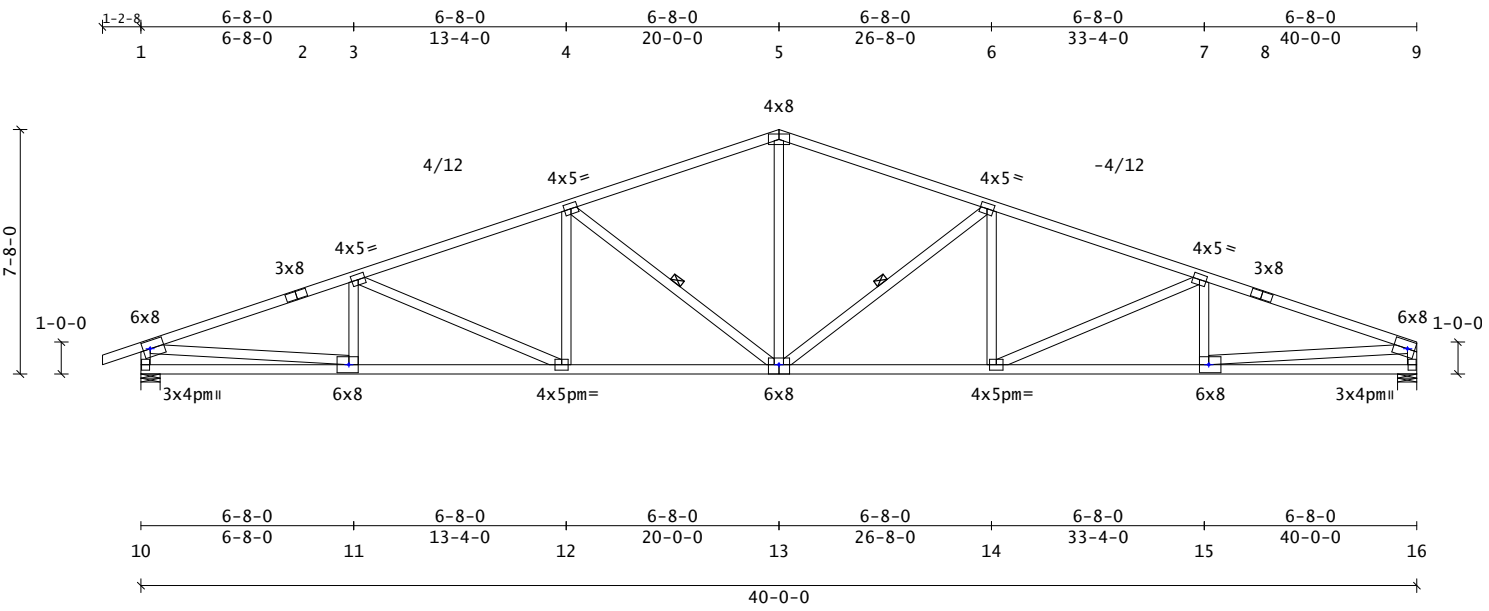

Truss Weight = 199.7 lb

Code/Design: IBC-2021/TPI-2014

PSF	Live	Dead	Dur Factors
TC	40.0	10.0	Live 1.15
BC	0.0	10.0	Wind 1.60
Total	60.0	Plt 1.15	Snow 1.15

Spacing: 2-00-00 o.c. Plies: 1
Repetitive Member Increase: Yes
Green Lumber: No Wet Service: No
Fab Tolerance: 20% Creep (Kcr) = 2.0
OH Soffit Load: 2.0 psf

----------Snow Load Specs----------
ASCE7-16 Roof Snow (Pf) = 40.0 psf
Risk Cat: II Terrain Cat: B
Roof Exposure: Sheltered
Thermal Condition: Unheated(1.2)
Unobstructed Slippery Roof: No
Low-Slope Minimums(Pfmin): No
Unbalanced Snow Loads: Yes
Rain Surcharge: No Ice Dam Chk: No
Lu(max) = 21-02-08

----------Wind Load Specs----------
ASCE7-16 Wind Speed(V) = 137 mph
Risk Cat: II Exposure Cat: B
Bldg Dims: L = 104.0 ft B = 70.0 ft
M.R.H(h)= 25.0ft Kzt = 1.0 Ke = 1.00
Bldg Enclosure: Enclosed
Wind DL(psf): TC = 6.0 BC = 6.0
End Vertical Exposed: L = Yes R = Yes
Wind Uplift Reporting: ASCE7 MWFRS
C&C End Zone: 7-00-00

-------Additional Design Checks------

10 psf Non-Concurrent BCLL:	Yes
20 psf BC Limited Storage:	Yes
200 lb BC Accessible Ceiling:	Yes
300 lb TC Maintenance Load:	Yes
2000 lb TC Safe Load:	No
Unbalanced TCLL:	Yes

Material Summary

TC	2x4	SPF	2400/2.0		
	2x4	SPF	2100/1.8	2-5	5-8
BC	2x4	SPF	1650/1.5		
Webs	2x4	SPF	#1/#2		
	2x4	SPF	1650/1.5	1-11	15-9

Member Forces Summary

Max CSI in TC PANEL 8 - 9 0.91
Max CSI in BC PANEL 11 - 12 0.78
Max CSI in Web 1 - 11 0.75

...Mem...		Ten	Comp	.CSI.
TC	OH- 1	51	0	0.12
	1- 2	919	4911	0.87
	2- 3	926	4762	0.84
	3- 4	975	4491	0.68
	4- 5	850	3536	0.70
	5- 6	851	3536	0.81
	6- 7	975	4492	0.85
	7- 8	928	4768	0.86
	8- 9	921	4917	0.91
	9-OH	5	0	0.00
BC	OH-10	0	0	0.00
	10-11	0	119	0.41
	11-12	4577	893	0.78
	12-13	4161	851	0.71
	13-14	4162	769	0.71
	14-15	4584	815	0.78
	15-16	0	6	0.41
	16-OH	0	0	0.00
Web	1-10	495	2466	0.31
	1-11	4607	810	0.75
	3-11	184	390	0.07
	3-12	73	577	0.53
	4-12	365	0	0.08
	4-13	344	1362	0.46
	5-13	1546	251	0.38
	6-13	345	1385	0.46
	6-14	375	0	0.08
	7-14	80	602	0.55
	7-15	185	391	0.07
	9-15	4614	827	0.75
	9-16	463	2337	0.29

Reaction Summary

----------Reaction Summary(Lbs)----------

Jnt	--X-Loc-	React	-Up-	--Width-	-Reqd	-Mat	PSI
10	01-12	2528	155	07-04	03-15	SPF	425
16	39-10-04	2399	135	07-04	03-12	SPF	425

Max Horiz = -105 / +119 at Joint 10

Loads Summary

This truss has been designed for the effects of an unbalanced top chord live load occurring at [20-00-00] using a 1.00 Full and 0.00 Reduced load factor.

See Loadcase Report for load combinations and additional details.
Snow load reported as Live Load. Roof Live Load = 40.0 psf

Notes

Plates designed for Cq at 0.80 and Rotational Tolerance of 10.0 degrees.
Plates located at TC pitch breaks meet the prescriptive minimum size requirement to transfer unblocked diaphragm loads across those joints.
A "pm" next to the plate size indicates that the plate has been user modified; see Plate Offsets for any special positioning requirements.
Continuous Lateral Restraint (CLR) rows require diagonal bracing per D-WEBCLRBRACE. Alternatively, see D-WEBREINFORCE.

Deflection Summary

Truss	Span	Limit	Actual(in)	Location
Vert LL		L/240	L/999(-0.42)	12-13
Vert DL		L/120	L/999(-0.24)	13-14
Vert CR		L/180	L/717(-0.66)	13-14
Horz LL		0.75in	(0.12)	@Jt16
Horz CR		1.25in	(0.18)	@Jt16
Ohng CR	2L/180	2L/999	(-0.01)	1- 1

Bracing Data Summary

----------Bracing Data----------
Chords; continuous except where shown
------- Web Bracing -- CLR ----------
Single: 4-13 13- 6
Continuous Restraint Bracing Req'd
See BCSI-B3 3.0

Plate offsets (X, Y):

(None unless indicated below)
Jnt1(01-04,00-07), Jnt9(-01-04,00-07), Jnt11(-00-08,0), Jnt13(0,-00-08), Jnt15(00-08,0)

5/27/2025

SIMPSON StrongTie

Component Solutions
Truss Studio V
2024.3.2.1

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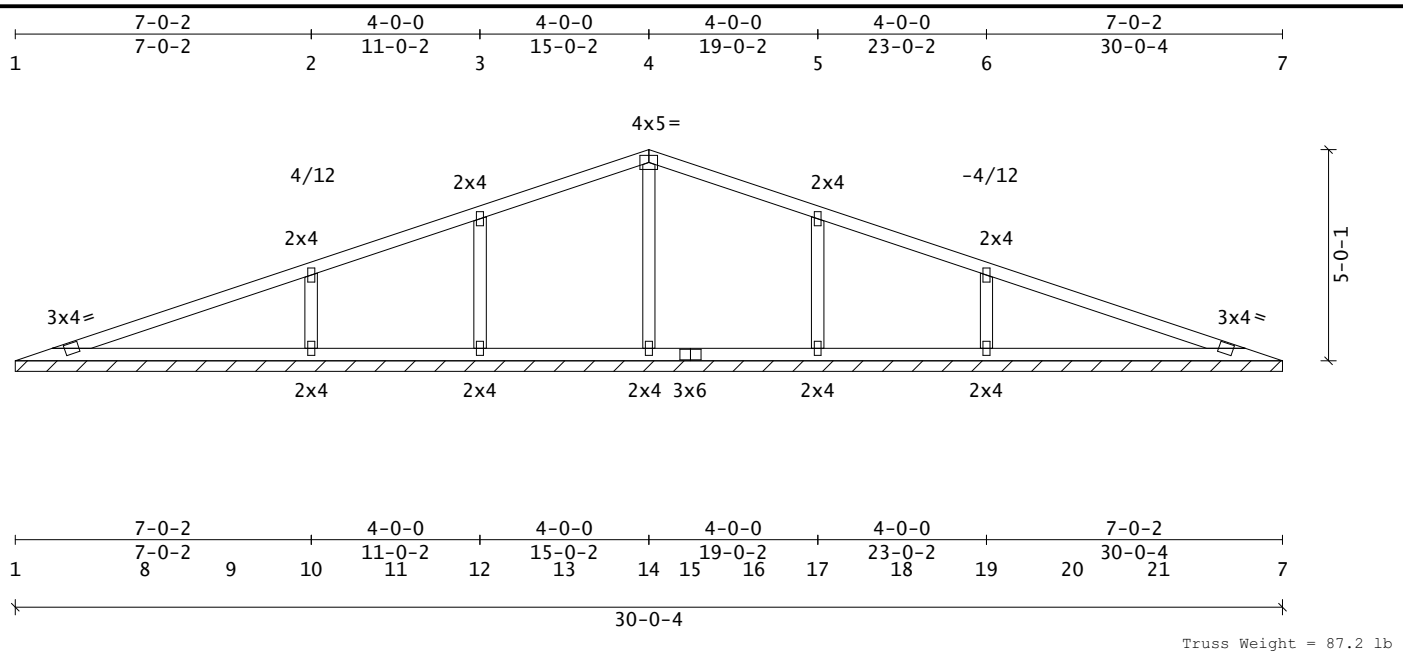

Truss Weight = 87.2 lb

```
Code/Design: IBC-2021/TPI-2014
PSF  Live  Dead        Dur Factors
TC   40.0  10.0      Live  Wind  Snow
BC    0.0   1.0  Lum 1.15  1.60  1.15
Total      51.0  Plt 1.15  1.60  1.15
Spacing:  2-00-00 o.c.    Plies: 1
Repetitive Member Increase: Yes
Green Lumber:  No  Wet Service:  No
Fab Tolerance:  20% Creep (Kcr) = 2.0
OH Soffit Load:  2.0 psf
```

```
----------Snow Load Specs----------
ASCE7-16 Roof Snow (Pf) = 40.0 psf
Risk Cat: II  Terrain Cat: B
Roof Exposure: Sheltered
Thermal Condition: Unheated(1.2)
Unobstructed Slippery Roof: No
Low-Slope Minimums(Pfmin):  No
Unbalanced Snow Loads:      Yes
Rain Surcharge: No Ice Dam Chk: No
Lu(max) = 20-00-00
```

```
----------Wind Load Specs----------
ASCE7-16  Wind Speed(V) = 137 mph
Risk Cat: II  Exposure Cat: B
Bldg Dims: L = 104.0 ft  B =  70.0 ft
M.R.H(h)=  25.0ft Kzt = 1.0 Ke = 1.00
Bldg Enclosure: Enclosed
Wind DL(psf): TC =  6.0 BC =  0.6
End Vertical Exposed: L = Yes R = Yes
Wind Uplift Reporting: ASCE7 MWFRS
C&C End Zone: 7-00-00
```

```
-------Additional Design Checks------
10 psf Non-Concurrent BCLL:       Yes
20 psf BC Limited Storage:        Yes
200 lb BC Accessible Ceiling:     Yes
300 lb TC Maintenance Load:       Yes
2000 lb TC Safe Load:             No
Unbalanced TCLL:                  Yes
```

Material Summary

```
TC      2x4   SPF  #1/#2
BC      2x4   SPF  #1/#2
Webs    2x4   SPF  #1/#2
```

Member Forces Summary

```
Max CSI in TC PANEL   1 -  2   0.38
Max CSI in BC PANEL   1 -  8   0.07
Max CSI in Web       14 -  4   0.13

...Mem...    Ten     Comp     .CSI.
TC   1- 2     40      155     0.38
     2- 3    114      143     0.38
     3- 4    168      153     0.34
     4- 5    168      153     0.34
     5- 6    114      143     0.38
     6- 7     40      155     0.38
BC   1- 8     70       22     0.07
     7-21     70       22     0.07
     8- 9     70       22     0.01
     9-10     70       22     0.01
    10-11     70       22     0.01
    11-12     70       22     0.01
    12-13     70       22     0.02
    13-14     70       22     0.02
    14-15     70       22     0.02
    15-16     70       22     0.02
    16-17     70       22     0.01
    17-18     70       22     0.01
    18-19     70       22     0.01
    19-20     70       22     0.01
    20-21     70       22     0.01
Web  2-10    188      530     0.07
     3-12    266      566     0.12
     4-14     62      325     0.13
     5-17    266      566     0.12
     6-19    188      530     0.07
```

Reaction Summary

```
--------------Reaction Summary(Lbs)----------------
Jnt  --X-Loc- React -Up- --Width- -Reqd   -Mat  PSI
 10   7-02-00   535  107 30-00-04
 12  11-02-00   570   85 30-00-04
 17  19-02-00   570   85 30-00-04
 19  23-02-00   535  107 30-00-04
Max Horiz =    -77 /    +77 at Joint  14
Reactions not shown: down < 400 and up < 150
---- Reaction Summary (plf) -----
Jnt-Jnt       React -Up- --Width-
  1-  7          28    4 30-00-04  (reduced)
```

Loads Summary

This truss has been designed for the effects of an unbalanced top chord live load occurring at [15-02-00] using a 1.00 Full and 0.00 Reduced load factor.

See Loadcase Report for load combinations and additional details.
Snow load reported as Live Load. Roof Live Load = 40.0 psf

Notes

Valley Truss application only.
Plates designed for Cq at 0.80 and Rotational Tolerance of 10.0 degrees.
Plates located at TC pitch breaks meet the prescriptive minimum size requirement to transfer unblocked diaphragm loads across those joints.

Deflection Summary

```
TrussSpan Limit  Actual(in)   Location
Vert LL   L/240  L/999(-0.00) 13-14
Vert DL   L/120  L/999(-0.00) 13-14
Vert CR   L/180  L/999(-0.00) 13-14
Horz LL   0.75in      ( 0.00) @Jt 1
Horz CR   1.25in      ( 0.00) @Jt 1
```

Bracing Data Summary

```
------------Bracing Data------------
Chords; continuous except where shown
Web Bracing -- None
```

Plate offsets (X, Y):

(None unless indicated below)

5/27/2025

SIMPSON Strong-Tie

Component Solutions
Truss Studio V
2024.3.2.1

EngDrwg: 2021r5RGT_Eng

SID: 0003572599
TID: 273891
Date: 05 / 26 / 25
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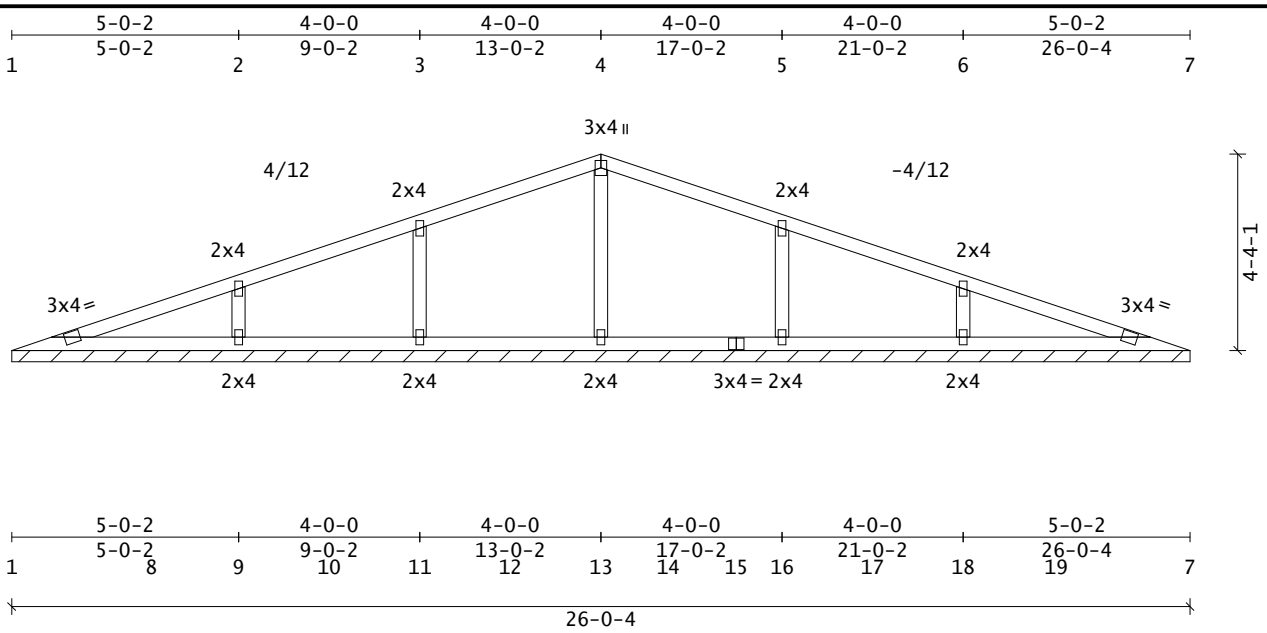

Truss Weight = 73.8 lb

Code/Design: IBC-2021/TPI-2014
PSF Live Dead Dur Factors
TC 40.0 10.0 Live Wind Snow
BC 0.0 1.0 Lum 1.15 1.60 1.15
Total 51.0 Plt 1.15 1.60 1.15
Spacing: 2-00-00 o.c. Plies: 1
Repetitive Member Increase: Yes
Green Lumber: No Wet Service: No
Fab Tolerance: 20% Creep (Kcr) = 2.0
OH Soffit Load: 2.0 psf

----------Snow Load Specs----------
ASCE7-16 Roof Snow (Pf) = 40.0 psf
Risk Cat: II Terrain Cat: B
Roof Exposure: Sheltered
Thermal Condition: Unheated(1.2)
Unobstructed Slippery Roof: No
Low-Slope Minimums(Pfmin): No
Unbalanced Snow Loads: Yes
Rain Surcharge: No Ice Dam Chk: No
Lu(max) = 20-00-00

----------Wind Load Specs----------
ASCE7-16 Wind Speed(V) = 137 mph
Risk Cat: II Exposure Cat: B
Bldg Dims: L = 104.0 ft B = 70.0 ft
M.R.H(h)= 25.0ft Kzt = 1.0 Ke = 1.00
Bldg Enclosure: Enclosed
Wind DL(psf): TC = 6.0 BC = 0.6
End Vertical Exposed: L = Yes R = Yes
Wind Uplift Reporting: ASCE7 MWFRS
C&C End Zone: 7-00-00

-------Additional Design Checks------
10 psf Non-Concurrent BCLL: Yes
20 psf BC Limited Storage: Yes
200 lb BC Accessible Ceiling: Yes
300 lb TC Maintenance Load: Yes
2000 lb TC Safe Load: No
Unbalanced TCLL: Yes

Material Summary

TC 2x4 SPF #1/#2
BC 2x4 SPF #1/#2
Webs 2x4 SPF #1/#2

Member Forces Summary

Max CSI in TC PANEL 2 - 3 0.38
Max CSI in BC PANEL 1 - 8 0.01
Max CSI in Web 11 - 3 0.10

...Mem...	Ten	Comp	.CSI.
TC 1- 2	39	75	0.23
2- 3	65	99	0.38
3- 4	136	124	0.37
4- 5	136	124	0.37
5- 6	65	99	0.38
6- 7	39	75	0.23
BC 1- 8	72	17	0.01
7-19	72	17	0.01
8- 9	72	17	0.01
9-10	72	17	0.01
10-11	72	17	0.01
11-12	72	17	0.01
12-13	72	17	0.01
13-14	72	17	0.01
14-15	72	17	0.01
15-16	72	17	0.01
16-17	72	17	0.01
17-18	72	17	0.01
18-19	72	17	0.01
Web 2- 9	160	419	0.05
3-11	276	598	0.10
4-13	81	339	0.10
5-16	276	598	0.10
6-18	160	419	0.05

Reaction Summary

----------Reaction Summary(Lbs)----------

Jnt	--X-Loc-	React	-Up-	--Width-	-Reqd	-Mat	PSI
9	5-02-00	424	81	26-00-04			
11	9-02-00	603	92	26-00-04			
16	17-02-00	602	93	26-00-04			
18	21-02-00	424	81	26-00-04			

Max Horiz = -66 / +66 at Joint 13
Reactions not shown: down < 400 and up < 150
---- Reaction Summary (plf) -----

Jnt-Jnt	React	-Up-	--Width-	
1- 7	23	4	26-00-04	(reduced)

Loads Summary

This truss has been designed for the effects of an unbalanced top chord live load occurring at [13-02-00] using a 1.00 Full and 0.00 Reduced load factor.

See Loadcase Report for load combinations and additional details.
Snow load reported as Live Load. Roof Live Load = 40.0 psf

Notes

Valley Truss application only.
Plates designed for Cq at 0.80 and Rotational Tolerance of 10.0 degrees.
Plates located at TC pitch breaks meet the prescriptive minimum size requirement to transfer unblocked diaphragm loads across those joints.

Deflection Summary

Truss	Span	Limit	Actual(in)	Location
Vert LL		L/240	L/999(-0.00)	18-19
Vert DL		L/120	L/999(-0.00)	18-19
Vert CR		L/180	L/999(-0.00)	18-19
Horz LL		0.75in	(0.00)	@Jt 7
Horz CR		1.25in	(0.00)	@Jt 7

Bracing Data Summary

----------Bracing Data----------
Chords; continuous except where shown
Web Bracing -- None

Plate offsets (X, Y):

(None unless indicated below)

5/27/2025

SIMPSON StrongTie

Component Solutions
Truss Studio V
2024.3.2.1

EngDrwg: 2021r5RGT_Eng

SID: 0003572600
TID: 273891
Date: 05 / 26 / 25
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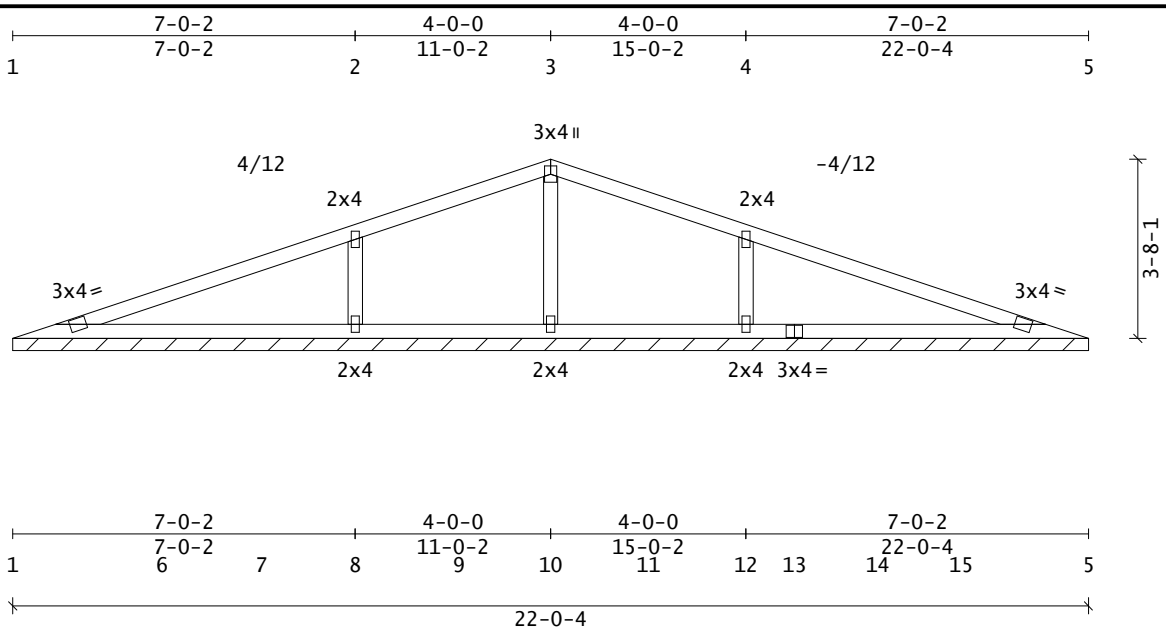

Truss Weight = 58.1 lb

```
Code/Design: IBC-2021/TPI-2014
PSF  Live  Dead        Dur Factors
TC   40.0  10.0      Live  Wind  Snow
BC    0.0   1.0  Lum 1.15  1.60  1.15
Total      51.0  Plt 1.15  1.60  1.15
Spacing:  2-00-00 o.c.    Plies: 1
Repetitive Member Increase: Yes
Green Lumber:  No  Wet Service:  No
Fab Tolerance:  20% Creep (Kcr) = 2.0
OH Soffit Load:  2.0 psf
```

```
----------Snow Load Specs----------
ASCE7-16 Roof Snow (Pf) = 40.0 psf
Risk Cat: II  Terrain Cat: B
Roof Exposure: Sheltered
Thermal Condition: Unheated(1.2)
Unobstructed Slippery Roof: No
Low-Slope Minimums(Pfmin):  No
Unbalanced Snow Loads:      Yes
Rain Surcharge: No Ice Dam Chk: No
Lu(max) = 20-00-00
```

```
----------Wind Load Specs----------
ASCE7-16  Wind Speed(V) = 137 mph
Risk Cat: II  Exposure Cat: B
Bldg Dims: L = 104.0 ft  B =  70.0 ft
M.R.H(h)=  25.0ft Kzt = 1.0 Ke = 1.00
Bldg Enclosure: Enclosed
Wind DL(psf): TC =  6.0 BC =  0.6
End Vertical Exposed: L = Yes R = Yes
Wind Uplift Reporting: ASCE7 MWFRS
C&C End Zone: 7-00-00
```

```
-------Additional Design Checks------
10 psf Non-Concurrent BCLL:       Yes
20 psf BC Limited Storage:        Yes
200 lb BC Accessible Ceiling:     Yes
300 lb TC Maintenance Load:       Yes
2000 lb TC Safe Load:             No
Unbalanced TCLL:                  Yes
```

Material Summary

```
TC      2x4   SPF  #1/#2
BC      2x4   SPF  #1/#2
Webs    2x4   SPF  #1/#2
```

Member Forces Summary

```
Max CSI in TC PANEL   1 -  2   0.52
Max CSI in BC PANEL   1 -  6   0.08
Max CSI in Web        8 -  2   0.10

...Mem...    Ten     Comp     .CSI.
TC   1- 2     68      163     0.52
     2- 3    152      178     0.51
     3- 4    152      178     0.51
     4- 5     68      163     0.52
BC   1- 6     78       15     0.08
     5-15     78       16     0.08
     6- 7     78       15     0.01
     7- 8     78       15     0.01
     8- 9     78       15     0.01
     9-10     78       15     0.01
    10-11     78       16     0.01
    11-12     78       16     0.01
    12-13     78       16     0.01
    13-14     78       16     0.01
    14-15     78       16     0.01
Web  2- 8    319      695     0.10
     3-10     65      264     0.06
     4-12    318      695     0.10
```

Reaction Summary

```
--------------Reaction Summary(Lbs)----------------
Jnt  --X-Loc- React -Up- --Width- -Reqd   -Mat  PSI
  8   7-02-00   700  112 22-00-04
 12  15-02-00   699  113 22-00-04
Max Horiz =    -54 /    +54 at Joint  10
Reactions not shown: down < 400 and up < 150
---- Reaction Summary (plf) -----
Jnt-Jnt       React -Up- --Width-
  1- 5          38    7 22-00-04  (reduced)
```

Loads Summary

This truss has been designed for the effects of an unbalanced top chord live load occurring at [11-02-00] using a 1.00 Full and 0.00 Reduced load factor.

See Loadcase Report for load combinations and additional details.
Snow load reported as Live Load. Roof Live Load = 40.0 psf

Notes

Valley Truss application only.
Plates designed for Cq at 0.80 and Rotational Tolerance of 10.0 degrees.
Plates located at TC pitch breaks meet the prescriptive minimum size requirement to transfer unblocked diaphragm loads across those joints.

Deflection Summary

```
TrussSpan Limit  Actual(in)   Location
Vert LL   L/240  L/999(-0.00)  6- 7
Vert DL   L/120  L/999(-0.00)  1- 6
Vert CR   L/180  L/999(-0.00)  1- 6
Horz LL   0.75in       ( 0.00) @Jt 1
Horz CR   1.25in       ( 0.00) @Jt 1
```

Bracing Data Summary

```
------------Bracing Data------------
Chords; continuous except where shown
Web Bracing -- None
```

Plate offsets (X, Y):

(None unless indicated below)

5/27/2025

SIMPSON StrongTie

Component Solutions
Truss Studio V
2024.3.2.1

EngDrwg: 2021r5RGT_Eng

SID: 0003572601
TID: 273891
Date: 05 / 26 / 25
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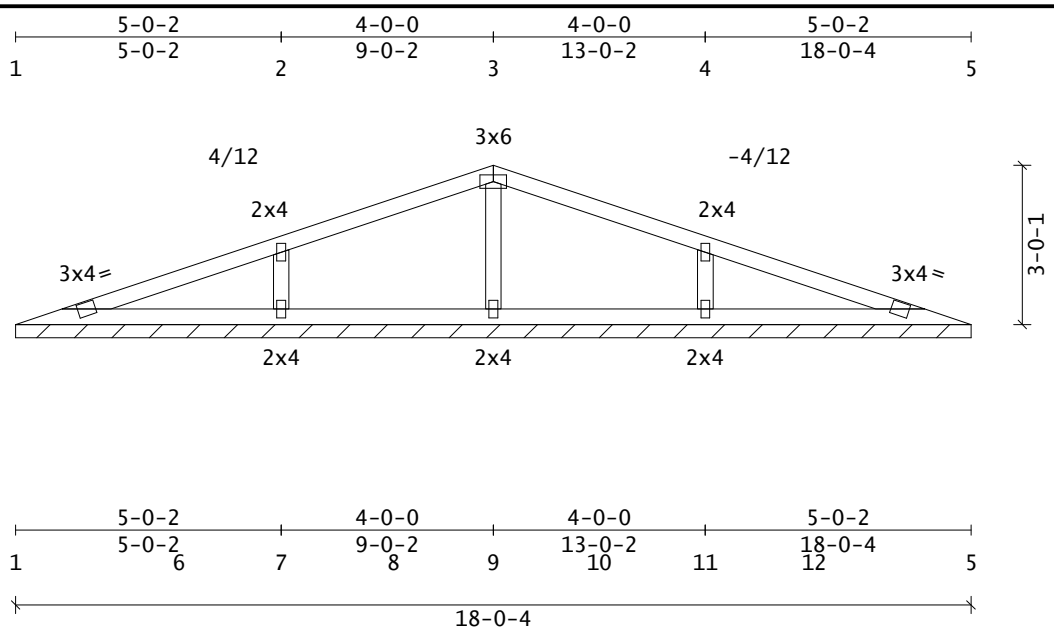

Truss Weight = 46.8 lb

```
Code/Design: IBC-2021/TPI-2014
PSF  Live  Dead        Dur Factors
TC   40.0  10.0      Live  Wind  Snow
BC    0.0   1.0  Lum 1.15  1.60  1.15
Total      51.0  Plt 1.15  1.60  1.15
Spacing:  2-00-00 o.c.    Plies: 1
Repetitive Member Increase: Yes
Green Lumber:  No  Wet Service:  No
Fab Tolerance:  20% Creep (Kcr) = 2.0
OH Soffit Load:  2.0 psf
```

```
----------Snow Load Specs----------
ASCE7-16 Roof Snow (Pf) = 40.0 psf
Risk Cat: II  Terrain Cat: B
Roof Exposure: Sheltered
Thermal Condition: Unheated(1.2)
Unobstructed Slippery Roof: No
Low-Slope Minimums(Pfmin):  No
Unbalanced Snow Loads:      Yes
Rain Surcharge: No Ice Dam Chk: No
Lu(max) = 20-00-00
```

```
----------Wind Load Specs----------
ASCE7-16  Wind Speed(V) = 137 mph
Risk Cat: II  Exposure Cat: B
Bldg Dims: L = 104.0 ft  B =  70.0 ft
M.R.H(h)=  25.0ft Kzt = 1.0 Ke = 1.00
Bldg Enclosure: Enclosed
Wind DL(psf): TC =  6.0 BC =  0.6
End Vertical Exposed: L = Yes R = Yes
Wind Uplift Reporting: ASCE7 MWFRS
C&C End Zone: 7-00-00
```

```
-------Additional Design Checks------
10 psf Non-Concurrent BCLL:       Yes
20 psf BC Limited Storage:        Yes
200 lb BC Accessible Ceiling:     Yes
300 lb TC Maintenance Load:       Yes
2000 lb TC Safe Load:             No
Unbalanced TCLL:                  Yes
```

Material Summary

```
TC      2x4   SPF  #1/#2
BC      2x4   SPF  #1/#2
Webs    2x4   SPF  #1/#2
```

Member Forces Summary

```
Max CSI in TC PANEL   1 -  2   0.34
Max CSI in BC PANEL   1 -  6   0.01
Max CSI in Web        7 -  2   0.07

...Mem...    Ten     Comp     .CSI.
TC   1- 2     48       92     0.34
     2- 3    106      130     0.33
     3- 4    106      130     0.33
     4- 5     48       92     0.34
BC   1- 6     32       11     0.01
     5-12     32       11     0.01
     6- 7     32       11     0.01
     7- 8     32       11     0.01
     8- 9     32       11     0.01
     9-10     32       11     0.01
    10-11     32       11     0.01
    11-12     32       11     0.01
Web  2- 7    260      565     0.07
     3- 9    131      347     0.06
     4-11    260      565     0.07
```

Reaction Summary

```
--------------Reaction Summary(Lbs)----------------
Jnt  --X-Loc- React -Up- --Width- -Reqd   -Mat  PSI
  7   5-02-00   569   88 18-00-04
 11  13-02-00   569   88 18-00-04
Max Horiz =    -43 /    +43 at Joint   9
Reactions not shown: down < 400 and up < 150
---- Reaction Summary (plf) -----
Jnt-Jnt       React -Up- --Width-
  1- 5          38    8 18-00-04  (reduced)
```

Loads Summary

This truss has been designed for the effects of an unbalanced top chord live load occurring at [9-02-00] using a 1.00 Full and 0.00 Reduced load factor.

See Loadcase Report for load combinations and additional details.
Snow load reported as Live Load. Roof Live Load = 40.0 psf

Notes

Valley Truss application only.
Plates designed for Cq at 0.80 and Rotational Tolerance of 10.0 degrees.
Plates located at TC pitch breaks meet the prescriptive minimum size requirement to transfer unblocked diaphragm loads across those joints.
Lumber and plating have been applied symmetrically.

Deflection Summary

```
TrussSpan Limit  Actual(in)   Location
Vert LL   L/240  L/999(-0.00)  6- 7
Vert DL   L/120  L/999(-0.00)  6- 7
Vert CR   L/180  L/999(-0.00)  6- 7
Horz LL   0.75in       ( 0.00) @Jt 1
Horz CR   1.25in       ( 0.00) @Jt 1
```

Bracing Data Summary

```
------------Bracing Data------------
Chords; continuous except where shown
Web Bracing -- None
```

Plate offsets (X, Y):

(None unless indicated below)

5/27/2025

SIMPSON StrongTie

Component Solutions
Truss Studio V
2024.3.2.1

EngDrwg: 2021r5RGT_Eng

SID: 0003572602
TID: 273891
Date: 05 / 26 / 25
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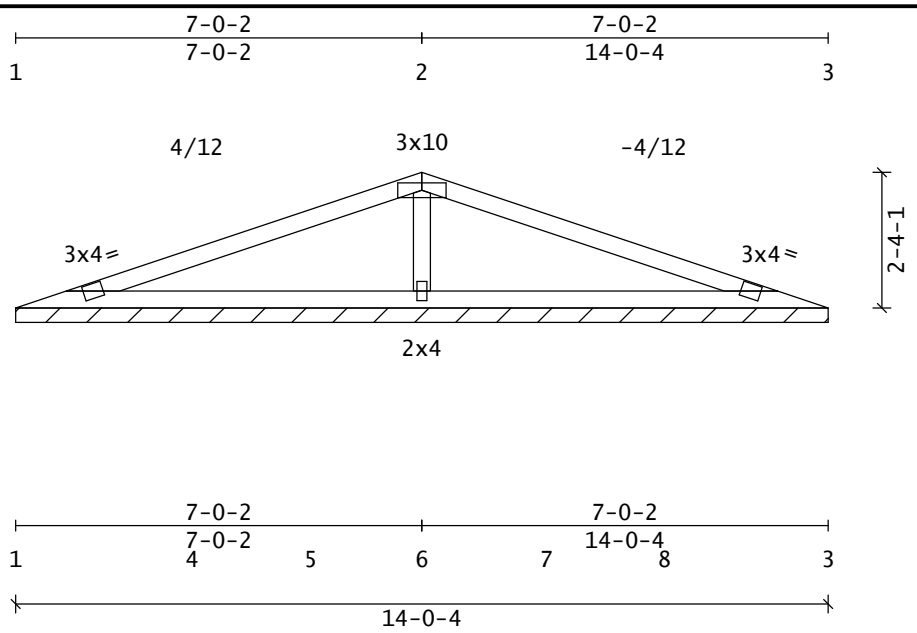

Truss Weight = 33.5 lb

```
Code/Design: IBC-2021/TPI-2014
PSF  Live  Dead        Dur Factors
TC   40.0  10.0      Live  Wind  Snow
BC    0.0   1.0  Lum 1.15  1.60  1.15
Total      51.0  Plt 1.15  1.60  1.15
Spacing:  2-00-00 o.c.    Plies: 1
Repetitive Member Increase: Yes
Green Lumber:  No  Wet Service:  No
Fab Tolerance:  20% Creep (Kcr) = 2.0
OH Soffit Load:  2.0 psf
```

```
----------Snow Load Specs----------
ASCE7-16 Roof Snow (Pf) = 40.0 psf
Risk Cat: II  Terrain Cat: B
Roof Exposure: Sheltered
Thermal Condition: Unheated(1.2)
Unobstructed Slippery Roof: No
Low-Slope Minimums(Pfmin):  No
Unbalanced Snow Loads:      Yes
Rain Surcharge: No Ice Dam Chk: No
Lu(max) = 20-00-00
```

```
----------Wind Load Specs----------
ASCE7-16  Wind Speed(V) = 137 mph
Risk Cat: II  Exposure Cat: B
Bldg Dims: L = 104.0 ft  B =  70.0 ft
M.R.H(h)=  25.0ft Kzt = 1.0 Ke = 1.00
Bldg Enclosure: Enclosed
Wind DL(psf): TC =  6.0 BC =  0.6
End Vertical Exposed: L = Yes R = Yes
Wind Uplift Reporting: ASCE7 MWFRS
C&C End Zone: 7-00-00
```

```
-------Additional Design Checks------
10 psf Non-Concurrent BCLL:       Yes
20 psf BC Limited Storage:        Yes
200 lb BC Accessible Ceiling:     Yes
300 lb TC Maintenance Load:       Yes
2000 lb TC Safe Load:             No
Unbalanced TCLL:                  Yes
```

Material Summary

```
TC      2x4   SPF  #1/#2
BC      2x4   SPF  #1/#2
Webs    2x4   SPF  #1/#2
```

Member Forces Summary

```
Max CSI in TC PANEL   1 -  2   0.58
Max CSI in BC PANEL   1 -  4   0.12
Max CSI in Web        6 -  2   0.05

...Mem...    Ten     Comp     .CSI.
TC   1- 2     164      271     0.58
     2- 3     164      271     0.58
BC   1- 4     157       74     0.12
     3- 8     157       74     0.12
     4- 5     157       74     0.03
     5- 6     157       74     0.03
     6- 7     157       74     0.03
     7- 8     157       74     0.03
Web  2- 6     219      401     0.05
```

Reaction Summary

```
--------------Reaction Summary(Lbs)----------------
Jnt  --X-Loc- React -Up- --Width- -Reqd   -Mat  PSI
  6   7-02-00   406    63 14-00-04
Max Horiz =    -31 /    +31 at Joint   6
Reactions not shown: down < 400 and up < 150
---- Reaction Summary (plf) -----
Jnt-Jnt       React -Up- --Width-
  1- 3          73    13 14-00-04  (reduced)
```

Loads Summary

This truss has been designed for the effects of an unbalanced top chord live load occurring at [7-02-00] using a 1.00 Full and 0.00 Reduced load factor.

See Loadcase Report for load combinations and additional details.
Snow load reported as Live Load. Roof Live Load = 40.0 psf

Notes

Valley Truss application only.
Plates designed for Cq at 0.80 and Rotational Tolerance of 10.0 degrees.
Plates located at TC pitch breaks meet the prescriptive minimum size requirement to transfer unblocked diaphragm loads across those joints.
Lumber and plating have been applied symmetrically.

Deflection Summary

```
TrussSpan Limit  Actual(in)   Location
Vert LL   L/240  L/999(-0.00)  8- 3
Vert DL   L/120  L/999(-0.00)  8- 3
Vert CR   L/180  L/999(-0.00)  8- 3
Horz LL   0.75in       ( 0.00) @Jt 3
Horz CR   1.25in       ( 0.00) @Jt 3
```

Bracing Data Summary

```
------------Bracing Data------------
Chords; continuous except where shown
Web Bracing -- None
```

Plate offsets (X, Y):

(None unless indicated below)

COLORADO LICENSED
MEHUL H. SONI
42779
PROFESSIONAL ENGINEER

5/27/2025

SIMPSON StrongTie

Component Solutions
Truss Studio V
2024.3.2.1

EngDrwg: 2021r5RGT_Eng

SID: 0003572603
TID: 273891
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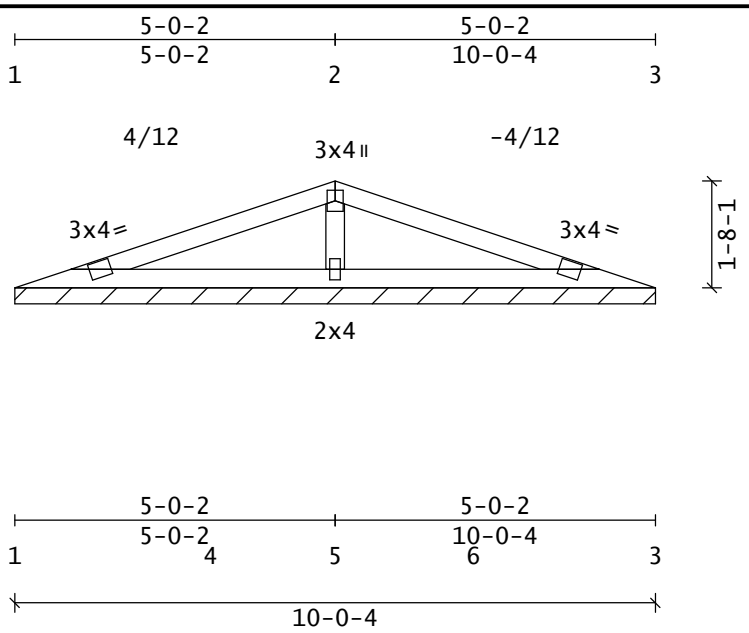

Truss Weight = 22.6 lb

Code/Design: IBC-2021/TPI-2014

PSF	Live	Dead		Dur Factors	
TC	40.0	10.0		Live	Wind	Snow
BC	0.0	1.0	Lum	1.15	1.60	1.15
Total		51.0	Plt	1.15	1.60	1.15

Spacing: 2-00-00 o.c. Plies: 1
Repetitive Member Increase: Yes
Green Lumber: No Wet Service: No
Fab Tolerance: 20% Creep (Kcr) = 2.0
OH Soffit Load: 2.0 psf

----------Snow Load Specs----------
ASCE7-16 Roof Snow (Pf) = 40.0 psf
Risk Cat: II Terrain Cat: B
Roof Exposure: Sheltered
Thermal Condition: Unheated(1.2)
Unobstructed Slippery Roof: No
Low-Slope Minimums(Pfmin): No
Unbalanced Snow Loads: Yes
Rain Surcharge: No Ice Dam Chk: No
Lu(max) = 20-00-00

----------Wind Load Specs----------
ASCE7-16 Wind Speed(V) = 137 mph
Risk Cat: II Exposure Cat: B
Bldg Dims: L = 104.0 ft B = 70.0 ft
M.R.H(h)= 25.0ft Kzt = 1.0 Ke = 1.00
Bldg Enclosure: Enclosed
Wind DL(psf): TC = 6.0 BC = 0.6
End Vertical Exposed: L = Yes R = Yes
Wind Uplift Reporting: ASCE7 MWFRS
C&C End Zone: 7-00-00

-------Additional Design Checks------

10 psf Non-Concurrent BCLL:	Yes
20 psf BC Limited Storage:	Yes
200 lb BC Accessible Ceiling:	Yes
300 lb TC Maintenance Load:	Yes
2000 lb TC Safe Load:	No
Unbalanced TCLL:	Yes

Material Summary

TC	2x4	SPF	#1/#2
BC	2x4	SPF	#1/#2
Webs	2x4	SPF	#1/#2

Member Forces Summary

Max CSI in TC PANEL	1 -	2	0.21
Max CSI in BC PANEL	1 -	4	0.02
Max CSI in Web	5 -	2	0.03

...Mem...		Ten	Comp	.CSI.
TC	1- 2	78	121	0.21
	2- 3	78	121	0.21
BC	1- 4	48	9	0.02
	3- 6	48	9	0.02
	4- 5	48	9	0.01
	5- 6	48	9	0.01
Web	2- 5	187	282	0.03

Reaction Summary

Max Horiz = -20 / +20 at Joint 5
Reactions not shown: down < 400 and up < 150
---- Reaction Summary (plf) -----

Jnt-Jnt	React	-Up-	--Width-
1- 3	101	18	10-00-04

Loads Summary

This truss has been designed for the effects of an unbalanced top chord live load occurring at [5-02-00] using a 1.00 Full and 0.00 Reduced load factor.

See Loadcase Report for load combinations and additional details.
Snow load reported as Live Load. Roof Live Load = 40.0 psf

Notes

Valley Truss application only.
Plates designed for Cq at 0.80 and Rotational Tolerance of 10.0 degrees.
Plates located at TC pitch breaks meet the prescriptive minimum size requirement to transfer unblocked diaphragm loads across those joints.
Lumber and plating have been applied symmetrically.

Deflection Summary

Truss	Span	Limit	Actual(in)	Location
Vert LL		L/240	L/999(-0.00)	5- 6
Vert DL		L/120	L/999(-0.00)	5- 6
Vert CR		L/180	L/999(-0.00)	5- 6
Horz LL		0.75in	(0.00)	@Jt 3
Horz CR		1.25in	(0.00)	@Jt 3

Bracing Data Summary

----------Bracing Data----------
Chords; continuous except where shown
Web Bracing -- None

Plate offsets (X, Y):

(None unless indicated below)

COLORADO LICENSED
MEHUL H. SONI
42779
PROFESSIONAL ENGINEER
5/27/2025

SIMPSON StrongTie

Component Solutions
Truss Studio V
2024.3.2.1

EngDrwg: 2021r5RGT_Eng

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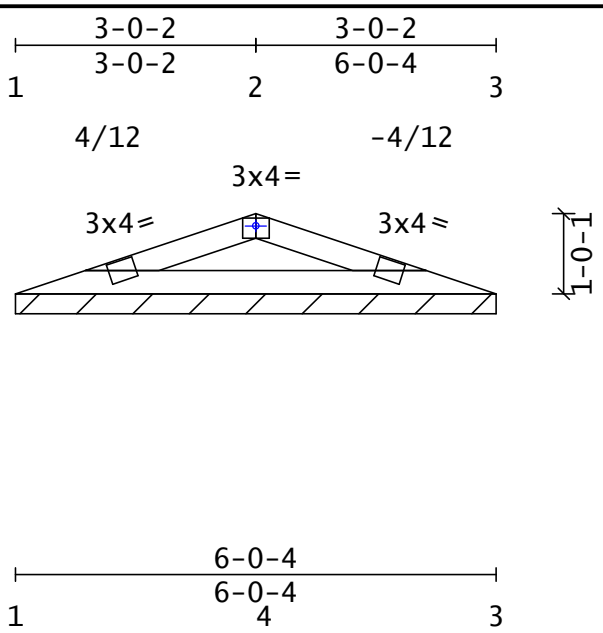

Truss Weight = 12.1 lb

```
Code/Design: IBC-2021/TPI-2014
PSF  Live  Dead        Dur Factors
TC   40.0  10.0      Live  Wind  Snow
BC    0.0   1.0  Lum 1.15  1.60  1.15
Total      51.0  Plt 1.15  1.60  1.15
Spacing:  2-00-00 o.c.    Plies: 1
Repetitive Member Increase: Yes
Green Lumber:  No  Wet Service:  No
Fab Tolerance:  20% Creep (Kcr) = 2.0
OH Soffit Load:  2.0 psf
```

```
----------Snow Load Specs----------
ASCE7-16 Roof Snow (Pf) = 40.0 psf
Risk Cat: II  Terrain Cat: B
Roof Exposure: Sheltered
Thermal Condition: Unheated(1.2)
Unobstructed Slippery Roof: No
Low-Slope Minimums(Pfmin):  No
Unbalanced Snow Loads:      Yes
Rain Surcharge: No Ice Dam Chk: No
Lu(max) = 20-00-00
```

```
----------Wind Load Specs----------
ASCE7-16  Wind Speed(V) = 137 mph
Risk Cat: II  Exposure Cat: B
Bldg Dims: L = 104.0 ft  B =  70.0 ft
M.R.H(h)=  25.0ft Kzt = 1.0 Ke = 1.00
Bldg Enclosure: Enclosed
Wind DL(psf): TC =  6.0 BC =  0.6
End Vertical Exposed: L = Yes R = Yes
Wind Uplift Reporting: ASCE7 MWFRS
C&C End Zone: 7-00-00
```

```
-------Additional Design Checks------
10 psf Non-Concurrent BCLL:       Yes
20 psf BC Limited Storage:        Yes
200 lb BC Accessible Ceiling:     Yes
300 lb TC Maintenance Load:       Yes
2000 lb TC Safe Load:             No
Unbalanced TCLL:                  Yes
```

Material Summary

```
TC      2x4   SPF  #1/#2
BC      2x4   SPF  #1/#2
```

Member Forces Summary

```
Max CSI in TC PANEL   1 -  2   0.08
Max CSI in BC PANEL   1 -  4   0.05
```

```
...Mem...    Ten     Comp     .CSI.
TC   1- 2    121      190     0.08
     2- 3    121      190     0.08
BC   1- 4    152       66     0.05
     3- 4    152       66     0.05
```

Reaction Summary

```
Max Horiz =     -8 /     +8 at Joint   4
Reactions not shown: down < 400 and up < 150
---- Reaction Summary (plf) -----
Jnt-Jnt       React -Up- --Width-
  1-  3         101   18  6-00-04
```

Loads Summary

This truss has been designed for the effects of an unbalanced top chord live load occurring at [3-02-00] using a 1.00 Full and 0.00 Reduced load factor.

See Loadcase Report for load combinations and additional details.
Snow load reported as Live Load. Roof Live Load = 40.0 psf

Notes

Valley Truss application only.
Plates designed for Cq at 0.80 and Rotational Tolerance of 10.0 degrees.
Plates located at TC pitch breaks meet the prescriptive minimum size requirement to transfer unblocked diaphragm loads across those joints.
Lumber and plating have been applied symmetrically.

Deflection Summary

```
TrussSpan Limit  Actual(in)    Location
Vert LL   L/240   L/999( 0.00)  4- 3
Vert DL   L/120   L/999( 0.00)  4- 3
Vert CR   L/180   L/999( 0.00)  4- 3
Horz LL   0.75in       ( 0.00) @Jt 3
Horz CR   1.25in       ( 0.00) @Jt 3
```

Bracing Data Summary

```
------------Bracing Data------------
Chords; continuous except where shown
Web Bracing -- None
```

Plate offsets (X, Y):

(None unless indicated below)
Jnt2(0,-00-05)

5/27/2025

SIMPSON StrongTie

Component Solutions
Truss Studio V
2024.3.2.1

EngDrwg: 2021r5RGT_Eng