

|       |       |             |     |     |                     |
|-------|-------|-------------|-----|-----|---------------------|
| Job   | Truss | Truss Type  | Qty | Ply | DCI Dialysis Clinic |
| 19129 | J02   | Jack-Closed | 2   | 1   |                     |

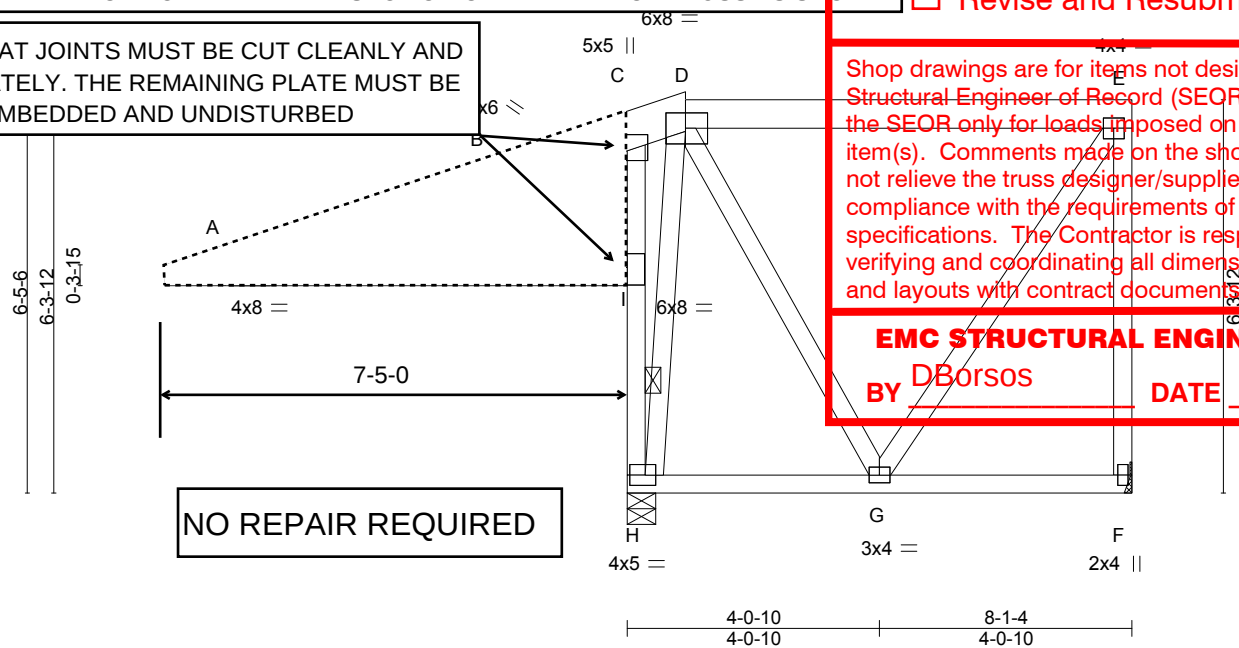
Star Truss/Star Lumber & Supply, Wichita, Kansas

8.300 s Mar 22 2019 Milk Industries, Inc. Thu Oct 15 17:29:29 2020 Page 1  
ID:PukovnUk82CxFIBLQF862vNcOfMYB35Z10W4P8DK0VGk0jTaEWToQNOFSyT5kq

#### ALTERATION DETAIL:

- CUT AND REMOVE CANTILEVERED SECTION ON LEFT END OF TRUSS AS SHOWN.

PLATES AT JOINTS MUST BE CUT CLEANLY AND ACCURATELY. THE REMAINING PLATE MUST BE FULLY EMBEDDED AND UNDISTURBED



Scale = 1:37.0

Shop drawings are for items not designed by the Structural Engineer of Record (SEOR). Reviewed by the SEOR only for loads imposed on the submitted item(s). Comments made on the shop drawings do not relieve the truss designer/supplier from compliance with the requirements of the plans and specifications. The Contractor is responsible for verifying and coordinating all dimensions, elevations, and layouts with contract documents and

**EMC STRUCTURAL ENGINEERS, P.C.**

BY DBorsos

DATE 11-30-20

Plate Offsets (X,Y)-- [C:0-2-8,0-2-4], [D:0-4-4,0-3-0], [H:0-2-0,0-2-0], [I:0-4-10,0-3-6]

| LOADING (psf) | SPACING-  | 2-0-0                | CSI. | DEFL.      | in   | (loc)    | I/defl | L/d | PLATES        | GRIP     |
|---------------|-----------|----------------------|------|------------|------|----------|--------|-----|---------------|----------|
| TCLL (roof)   | 20.0      | Plate Grip DOL       | 1.15 | TC         | 0.91 | Vert(LL) | -0.01  | G-H | >999          | 360      |
| Snow (Pf/Pg)  | 17.6/20.0 | Lumber DOL           | 1.15 | BC         | 0.23 | Vert(CT) | -0.52  | A   | >154          | 120      |
| TCDL          | 12.0      | Rep Stress Incr      | YES  | WB         | 0.26 | Horz(CT) | -0.00  | F   | n/a           | n/a      |
| BCLL          | 0.0       | Code IBC2018/TPI2014 |      | Matrix-MSH |      | Wind(LL) | 0.00   | G-H | >999          | 240      |
| BCDL          | 10.0      |                      |      |            |      |          |        |     | Weight: 93 lb | FT = 15% |

| LUMBER-                                                  | BRACING-                                                                                                |
|----------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| TOP CHORD 2x8 SP 2400F 2.0E *Except*<br>T2: 2x6 SPF No.2 | TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. Except: |
| BOT CHORD 2x4 SPF No.2                                   | 2-2-0 oc bracing: H-I                                                                                   |
| WEBS 2x4 SPF No.2                                        | BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.                                           |
|                                                          | WEBS 1 Row at midpt H-I                                                                                 |

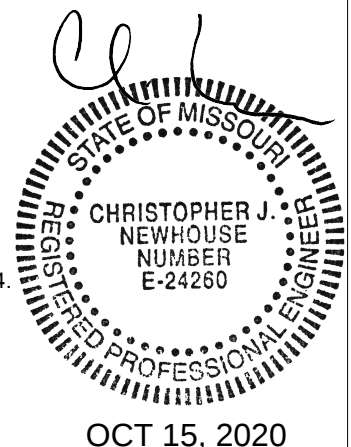
**REACTIONS.** (lb/size) H=969/0-5-8 (min. 0-1-14), F=108/Mechanical  
Max Horz H=-44(LC 8)  
Max Uplift F=-85(LC 19)  
Max Grav H=1193(LC 19), F=248(LC 22)

**FORCES.** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD H-I=-2244/159, C-I=-2305/155, A-B=-47/635, B-C=-16/548, C-D=-283/53, D-E=-24/118, E-F=-218/106  
BOT CHORD G-H=-287/14, F-G=0/10, A-I=-536/47  
WEBS D-H=-140/1055, D-G=0/364, E-G=-218/40, B-I=-20/246

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=7.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; C-C Exterior(2) -6-7-1 to 7-11-8; cantilever left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=17.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.00, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Unbalanced snow loads have been considered for this design.
- Provide adequate drainage to prevent water ponding.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 85 lb uplift at joint F.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard



Christopher J. Newhouse, P.E.  
License # 24260  
SCA Consulting Engineers  
C.O.A. # 001378 Exp 12/31/21  
12511 Emily Court  
Sugar Land, TX 77478  
713-779-7252

|       |       |             |     |     |                     |
|-------|-------|-------------|-----|-----|---------------------|
| Job   | Truss | Truss Type  | Qty | Ply | DCI Dialysis Clinic |
| 19129 | J03   | Jack-Closed | 2   | 1   |                     |

Star Truss/Star Lumber & Supply, Wichita, Kansas

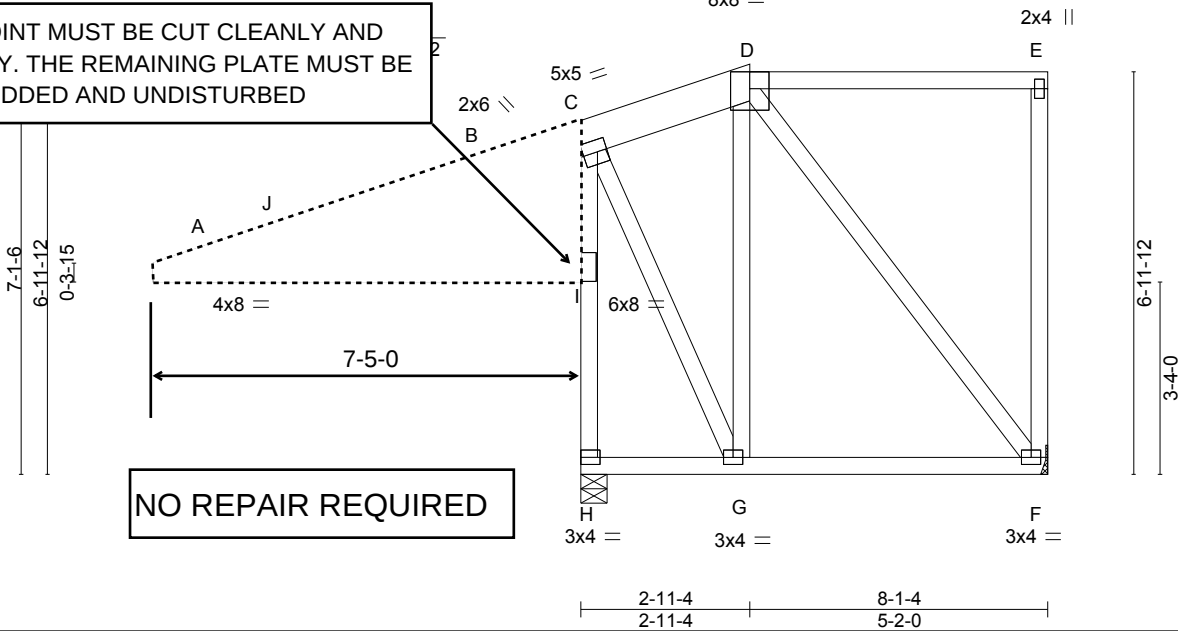
8.300 s Mar 22 2019 MiTek Industries, Inc. Thu Oct 15 17:29:29 2020 Page 1

ID:PukovnlIk82QxETBILlOE8ygzvNqp-if1viYfB5UsZUNV4bBDK0VGnYjI8aHnToQNOFSyT5kq

ALTERATION DETAIL:

- CUT AND REMOVE CANTILEVERED SECTION ON LEFT END OF TRUSS AS SHOWN.

PLATE AT JOINT MUST BE CUT CLEANLY AND ACCURATELY. THE REMAINING PLATE MUST BE FULLY EMBEDDED AND UNDISTURBED



NO REPAIR REQUIRED

Plate Offsets (X,Y)-- [C:0-2-0,0-2-8], [I:0-4-13,0-3-6]

| 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 0.75    | Vert(LL) | -0.01 | G-H   | >999   | 360 | MT20          | 197/144  |
| Snow (Pf/Pg) 17.6/20.0 | Lumber DOL           | 1.15  | BC 0.19    | Vert(CT) | -0.02 | F-G   | >999   | 240 |               |          |
| TCDL 12.0              | Rep Stress Incr      | YES   | WB 0.11    | Horz(CT) | -0.00 | F     | n/a    | n/a |               |          |
| BCLL 0.0               | Code IBC2018/TPI2014 |       | Matrix-MSH | Wind(LL) | 0.00  | G-H   | >999   | 240 |               |          |
| BCDL 10.0              |                      |       |            |          |       |       |        |     | Weight: 95 lb | FT = 15% |

|                                                          |                                                                                                         |
|----------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| <b>LUMBER-</b>                                           | <b>BRACING-</b>                                                                                         |
| TOP CHORD 2x4 SPF No.2 *Except*<br>T1: 2x8 SP 2400F 2.0E | TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. Except: |
| BOT CHORD 2x4 SPF No.2                                   | 4-1-0 oc bracing: H-I                                                                                   |
| WEBS 2x4 SPF No.2                                        | BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.                                           |

REACTIONS. (lb/size) H=954/0-5-8 (min. 0-2-0), F=103/Mechanical

Max Horz H=-57(LC 8)

Max UpliftF=-63(LC 19)

Max GravH=1266(LC 19), F=240(LC 22)

FORCES. (lb) - Maximum Compression/Maximum Tension

TOP CHORD H-I=-1293/0, C-I=-1547/14, A-J=-52/596, B-J=-48/684, B-C=-12/532, C-D=-129/10, D-E=-10/0, E-F=-186/4

BOT CHORD G-H=-113/24, F-G=-133/27, A-I=-573/52

WEBS C-G=-41/135, D-G=-32/175, D-F=-41/230, B-I=-44/463

- NOTES-
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=7.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; C-C Exterior(2) -6-7-1 to 7-11-8; cantilever left and right exposed ; Lumber DOL=1.33 plate grip DOL=1.33
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=17.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.00, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 5) Provide adequate drainage to prevent water ponding.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 63 lb uplift at joint F.
- 8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

|       |       |             |     |     |                     |
|-------|-------|-------------|-----|-----|---------------------|
| Job   | Truss | Truss Type  | Qty | Ply | DCI Dialysis Clinic |
| 19129 | J04   | Jack-Closed | 2   | 1   |                     |

Job Reference (optional)

Star Truss/Star Lumber & Supply, Wichita, Kansas

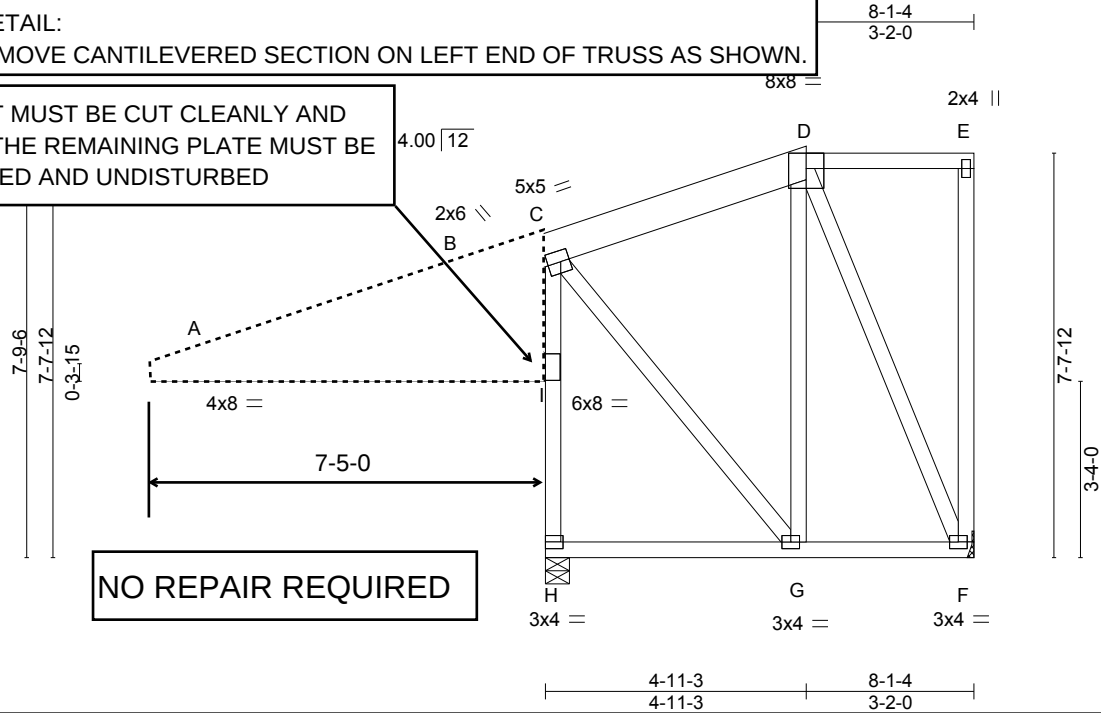
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ID: PukowmLk82OxETBIL OE8ygzvNqp-ArbHvufpso\_Q6W3H9ukZYjpmi65RJK6d047xBuyT5kp

#### ALTERATION DETAIL:

- CUT AND REMOVE CANTILEVERED SECTION ON LEFT END OF TRUSS AS SHOWN.

PLATE AT JOINT MUST BE CUT CLEANLY AND ACCURATELY. THE REMAINING PLATE MUST BE FULLY EMBEDDED AND UNDISTURBED



Scale = 1:43.6

Plate Offsets (X,Y)-- [C:0-2-0,0-2-8], [I:0-4-10,0-3-5]

| 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 0.85    | Vert(LL) | -0.01    | G-H    | >999 | 360    | MT20                    |
| Snow (Pf/Pg) 17.6/20.0 | Lumber DOL           | 1.15  | BC 0.19    | Vert(CT) | -0.03    | G-H    | >999 | 240    | 197/144                 |
| TCDL 12.0              | Rep Stress Incr      | YES   | WB 0.11    | Horz(CT) | -0.00    | F      | n/a  | n/a    |                         |
| BCLL 0.0               | Code IBC2018/TPI2014 |       | Matrix-MSH | Wind(LL) | 0.00     | G-H    | >999 | 240    |                         |
| BCDL 10.0              |                      |       |            |          |          |        |      |        | Weight: 101 lb FT = 15% |

| LUMBER-                                                  | BRACING-                                                                                                |
|----------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| TOP CHORD 2x4 SPF No.2 *Except*<br>T1: 2x8 SP 2400F 2.0E | TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. Except: |
| BOT CHORD 2x4 SPF No.2                                   | 3-9-0 oc bracing: H-I                                                                                   |
| WEBS 2x4 SPF No.2                                        | BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.                                           |

**REACTIONS.** (lb/size) H=943/0-5-8 (min. 0-2-1), F=94/Mechanical  
Max Horz H=-68(LC 8)  
Max Uplift F=-17(LC 19)  
Max Grav H=1315(LC 19), F=213(LC 22)

**FORCES.** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD H-I=-1296/4, C-I=-1544/18, A-B=-51/682, B-C=-15/552, C-D=-139/0, D-E=-2/0, E-F=-117/4  
BOT CHORD G-H=-120/35, F-G=-35/35, A-I=-569/52  
WEBS C-G=-1/145, D-G=-7/84, D-F=-85/95, B-I=-38/440

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=7.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; C-C Exterior(2) -6-7-1 to 7-11-8; cantilever left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=17.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.00, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Unbalanced snow loads have been considered for this design.
- Provide adequate drainage to prevent water ponding.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 17 lb uplift at joint F.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

|       |       |             |     |     |                          |
|-------|-------|-------------|-----|-----|--------------------------|
| Job   | Truss | Truss Type  | Qty | Ply | DCI Dialysis Clinic      |
| 19129 | J05   | Jack-Closed | 2   | 1   | Job Reference (optional) |

Star Truss/Star Lumber & Supply, Wichita, Kansas

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ID: Pukovnlk82QxftBILQF8ygzvNqp-ArbHvufpso\_Q6W3H9ukZYjpvB62QJk2d047xBuyT5kp

#### ALTERATION DETAIL:

- CUT AND REMOVE CANTILEVERED SECTION ON LEFT END OF TRUSS AS SHOWN.

PLATE AT JOINT MUST BE CUT CLEANLY AND ACCURATELY. THE REMAINING PLATE MUST BE FULLY EMBEDDED AND UNDISTURBED

Scale = 1:50.5

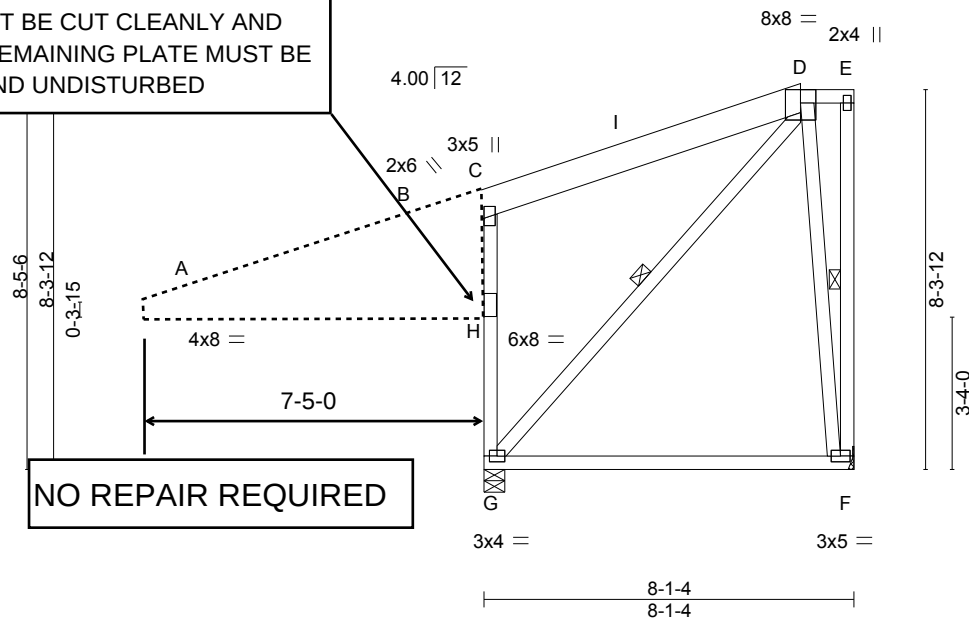


Plate Offsets (X,Y)-- [C:0-2-8,0-1-4], [H:0-4-10,0-3-5]

| 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 0.88    | Vert(LL) | -0.03 | F-G   | >999   | 360 | MT20           | 197/144 |
| Snow (Pf/Pg) 17.6/20.0 | Lumber DOL           | 1.15  | BC 0.38    | Vert(CT) | -0.52 | A     | >155   | 120 |                |         |
| TCDL 12.0              | Rep Stress Incr      | YES   | WB 0.11    | Horz(CT) | 0.00  | F     | n/a    | n/a |                |         |
| BCLL 0.0               | Code IBC2018/TPI2014 |       | Matrix-MSH | Wind(LL) | 0.01  | F-G   | >999   | 240 |                |         |
| BCDL 10.0              |                      |       |            |          |       |       |        |     | Weight: 102 lb | FT = 15 |

#### LUMBER-

TOP CHORD 2x4 SPF No.2 \*Except\*  
T1: 2x8 SP 2400F 2.0E  
BOT CHORD 2x4 SPF No.2  
WEBS 2x4 SPF No.2

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. Except:  
3-10-0 oc bracing: G-H  
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.  
WEBS 1 Row at midpt E-F, D-G

**REACTIONS.** (lb/size) G=938/0-5-8 (min. 0-2-2), F=79/Mechanical  
Max Horz G=-80(LC 8)  
Max Grav G=1340(LC 19), F=168(LC 22)

#### FORCES.

(lb) - Maximum Compression/Maximum Tension  
TOP CHORD G-H=-1149/73, C-H=-1416/71, A-B=-49/686, B-C=-20/556, C-I=-92/25, D-I=-63/115, D-E=-7/0, E-F=-92/1  
BOT CHORD F-G=-7/12, A-H=-571/49  
WEBS D-F=-64/116, D-G=-157/65, B-H=-18/459

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=7.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; C-C Exterior(2); cantilever left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=17.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.00, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Unbalanced snow loads have been considered for this design.
- Provide adequate drainage to prevent water ponding.
- Refer to girder(s) for truss to truss connections.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

|       |       |             |     |     |                     |
|-------|-------|-------------|-----|-----|---------------------|
| Job   | Truss | Truss Type  | Qty | Ply | DCI Dialysis Clinic |
| 19129 | J07   | Jack-Closed | 1   | 1   |                     |

Job Reference (optional)

ALTERATION DETAIL:  
 - CUT AND REMOVE CANTILEVERED SECTION ON LEFT END OF TRUSS AS SHOWN.

PLATE AT JOINT MUST BE CUT CLEANLY AND ACCURATELY. THE REMAINING PLATE MUST BE FULLY EMBEDDED AND UNDISTURBED

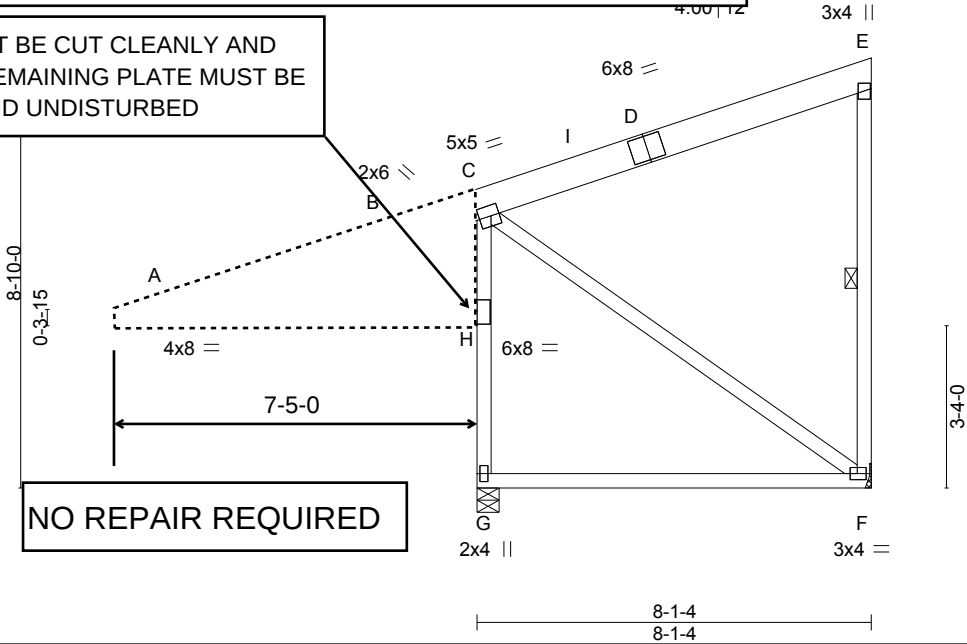


Plate Offsets (X,Y)-- [C:0-2-0,0-2-8], [F:0-1-12,0-1-8], [H:0-4-12,0-3-3]

| LOADING (psf) |           | SPACING-             |      | CSI.       |      | DEFL.    |                    | PLATES        |  | GRIP     |  |
|---------------|-----------|----------------------|------|------------|------|----------|--------------------|---------------|--|----------|--|
| TCLL (roof)   | 20.0      | Plate Grip DOL       | 1.15 | TC         | 0.76 | Vert(LL) | -0.02 F-G >999 360 | MT20          |  | 197/144  |  |
| Snow (Pf/Pg)  | 12.6/20.0 | Lumber DOL           | 1.15 | BC         | 0.38 | Vert(CT) | -0.19 F-G >498 240 |               |  |          |  |
| TCDL          | 12.0      | Rep Stress Incr      | YES  | WB         | 0.11 | Horz(CT) | -0.00 F n/a n/a    |               |  |          |  |
| BCLL          | 0.0       | Code IBC2018/TPI2014 |      | Matrix-MSH |      | Wind(LL) | 0.01 F-G >999 240  |               |  |          |  |
| BCDL          | 10.0      |                      |      |            |      |          |                    | Weight: 95 lb |  | FT = 15% |  |

|                |                   |                 |                                                                                               |
|----------------|-------------------|-----------------|-----------------------------------------------------------------------------------------------|
| <b>LUMBER-</b> |                   | <b>BRACING-</b> |                                                                                               |
| TOP CHORD      | 2x8 SP 2400F 2.0E | TOP CHORD       | Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. Except: |
| BOT CHORD      | 2x4 SPF No.2      |                 | 4-4-0 oc bracing: G-H                                                                         |
| WEBS           | 2x4 SPF No.2      | BOT CHORD       | Rigid ceiling directly applied or 6-0-0 oc bracing.                                           |
|                |                   | WEBS            | 1 Row at midpt E-F                                                                            |

**REACTIONS.** (lb/size) G=937/0-5-8 (min. 0-1-13), F=69/Mechanical  
 Max Horz G=-85(LC 8)  
 Max UpliftF=-1(LC 16)  
 Max GravG=1138(LC 2), F=163(LC 14)

**FORCES.** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD G-H=-1065/11, C-H=-1206/7, A-B=-50/574, B-C=-21/447, C-I=-141/0, D-I=-98/0, D-E=-73/16, E-F=-126/3  
 BOT CHORD F-G=-92/60, A-H=-486/50  
 WEBS C-F=-70/121, B-H=-17/333

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=7.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; C-C Exterior(2); cantilever left and right exposed ; Lumber DOL=1.33 plate grip DOL=1.33
  - 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=12.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.00
  - 3) Unbalanced snow loads have been considered for this design.
  - 4) Refer to girder(s) for truss to truss connections.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1 lb uplift at joint F.
  - 6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

|       |       |              |     |     |                          |
|-------|-------|--------------|-----|-----|--------------------------|
| Job   | Truss | Truss Type   | Qty | Ply | DCI Dialysis Clinic      |
| 19129 | T13   | Roof Special | 1   | 1   | Job Reference (optional) |

Star Truss/Star Lumber & Supply, Wichita, Kansas

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ID: Pukovnlk82QxFTBILQEF8ygzvNqp-e19g6EgRd56HjgeTjcFo5wL5ZWLC21DmFksVvLyT5k

ALTERATION DETAIL:

- CUT AND REMOVE TOP CHORD OVERHANG ON LEFT END OF TRUSS AS SHOWN.

PLATE AT JOINT MUST NOT BE DAMAGED. PLATE

MUST BE FULLY EMBEDDED AND UNDISTURBED

NO REPAIR REQUIRED

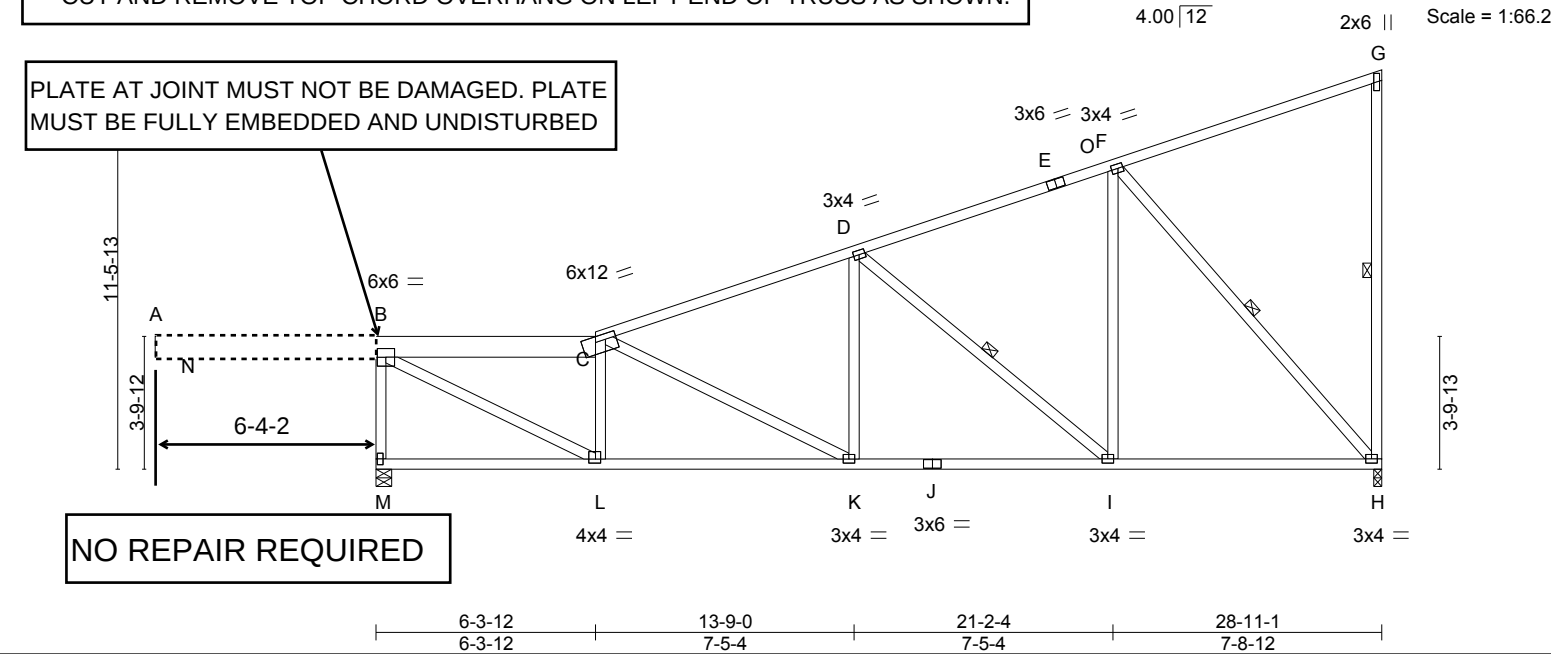


Plate Offsets (X,Y)-- [C:0-7-5,0-1-15], [F:0-1-12,0-1-8], [L:0-1-12,0-1-8], [M:0-2-0,0-0-8]

| 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         | 0.78 | Vert(LL) | -0.07  | K-L | >999           | 360      |
| Snow (Pf/Pg)  | 17.6/20.0 | Lumber DOL           | 1.15 | BC         | 0.54 | Vert(CT) | -0.55  | A-B | >141           | 80       |
| TCDL          | 12.0      | Rep Stress Incr      | YES  | WB         | 0.76 | Horz(CT) | 0.05   | H   | n/a            | n/a      |
| BCLL          | 0.0       | Code IBC2018/TPI2014 |      | Matrix-MSH |      | Wind(LL) | -0.01  | K   | >999           | 240      |
| BCDL          | 10.0      |                      |      |            |      |          |        |     | Weight: 175 lb | FT = 15% |

| LUMBER-                         | BRACING-                                                                                        |
|---------------------------------|-------------------------------------------------------------------------------------------------|
| TOP CHORD 2x4 SPF No.2 *Except* | TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals. |
| T1: 2x8 SP 2400F 2.0E           |                                                                                                 |
| BOT CHORD 2x4 SPF No.2          | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:                          |
| WEBS 2x4 SPF No.2               | 6-0-0 oc bracing: L-M.                                                                          |
|                                 | WEBS 1 Row at midpt G-H, D-I, F-H                                                               |

REACTIONS. (lb/size) M=1473/0-5-8 (min. 0-2-10), H=954/0-2-12 (min. 0-1-13)

Max Horz M=127(LC 17)

Max GravM=1665(LC 2), H=1159(LC 23)

FORCES. (lb) - Maximum Compression/Maximum Tension

TOP CHORD B-M=-1611/0, A-N=0/0, B-N=0/0, B-C=-1621/0, C-D=-1696/0, D-E=-981/0, E-O=-814/0, F-O=-800/0, F-G=-99/55, G-H=-203/12

BOT CHORD L-M=-119/139, K-L=0/1609, J-K=0/1525, I-J=0/1525, H-I=0/839

WEBS B-L=0/1827, C-L=-717/0, C-K=-163/50, D-K=0/202, D-I=-888/0, F-I=0/728, F-H=-1258/0

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=7.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; C-C Exterior(2) -6-4-2 to 28-9-5; cantilever left and right exposed ; Lumber DOL=1.33 plate grip DOL=1.33

2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=17.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.00, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.

3) Unbalanced snow loads have been considered for this design.

4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 12.6 psf on overhangs non-concurrent with other live loads.

5) Provide adequate drainage to prevent water ponding.

6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) H.

7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

|       |       |              |     |     |                          |
|-------|-------|--------------|-----|-----|--------------------------|
| Job   | Truss | Truss Type   | Qty | Ply | DCI Dialysis Clinic      |
| 19129 | T14   | Roof Special | 1   | 1   | Job Reference (optional) |

Star Truss/Star Lumber & Supply, Wichita, Kansas

8.300 s Mar 22 2019 MiTek Industries, Inc. Thu Oct 15 17:29:31 2020 Page 1

ID: Pukovnlk82QxFeBILQF8ygzvNqp-e19g6EgRd56HjgeTjcFo5wL7TWJg21umFksVvLyT5k

#### ALTERATION DETAIL:

- CUT AND REMOVE TOP CHORD OVERHANG ON LEFT END OF TRUSS AS SHOWN.

PLATE AT JOINT MUST NOT BE DAMAGED. PLATE MUST BE FULLY EMBEDDED AND UNDISTURBED

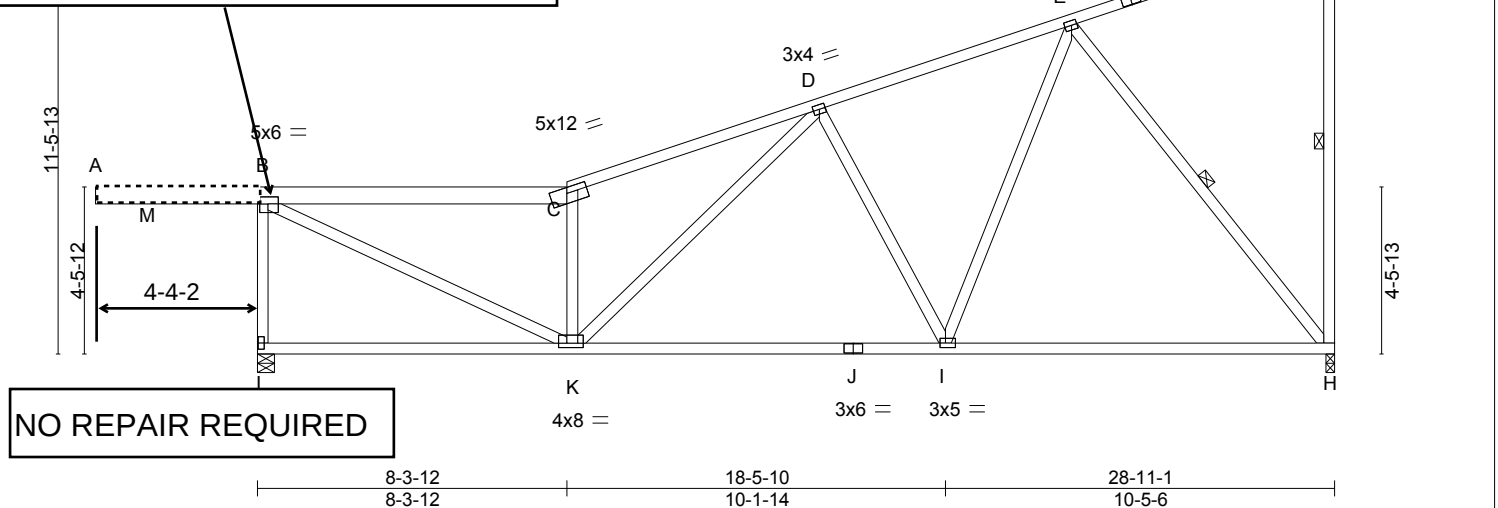


Plate Offsets (X,Y)-- [B:0-2-12,0-2-4], [C:0-6-8,0-1-13], [E:0-1-12,0-1-8], [I:0-1-12,0-1-8], [K:0-2-12,0-1-8], [L:0-2-0,0-0-4]

| LOADING (psf)          | SPACING-             | 2-0-0 | CSI.       | DEFL.    | in (loc) | I/defl | L/d  | PLATES | GRIP                     |
|------------------------|----------------------|-------|------------|----------|----------|--------|------|--------|--------------------------|
| TCLL (roof) 20.0       | Plate Grip DOL       | 1.15  | TC 0.65    | Vert(LL) | -0.08    | I-K    | >999 | 360    | MT20                     |
| Snow (Pf/Pg) 17.6/20.0 | Lumber DOL           | 1.15  | BC 0.70    | Vert(CT) | -0.34    | H-I    | >999 | 240    | 197/144                  |
| TCDL 12.0              | Rep Stress Incr      | YES   | WB 0.71    | Horz(CT) | 0.04     | H      | n/a  | n/a    |                          |
| BCLL 0.0               | Code IBC2018/TPI2014 |       | Matrix-MSH | Wind(LL) | -0.02    | I-K    | >999 | 240    |                          |
| BCDL 10.0              |                      |       |            |          |          |        |      |        | Weight: 153 lb FT = 1500 |

| LUMBER-                                             | BRACING-                                                                                        |
|-----------------------------------------------------|-------------------------------------------------------------------------------------------------|
| TOP CHORD 2x4 SPF No.2 *Except*<br>T1: 2x6 SPF No.2 | TOP CHORD Structural wood sheathing directly applied or 3-1-9 oc purlins, except end verticals. |
| BOT CHORD 2x4 SPF No.2                              | BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.                                   |
| WEBS 2x4 SPF No.2                                   | WEBS 1 Row at midpt G-H, E-H                                                                    |

**REACTIONS.** (lb/size) L=1347/0-5-8 (min. 0-2-6), H=981/0-2-12 (min. 0-1-14)  
Max Horz L=115(LC 17)  
Max Grav L=1512(LC 2), H=1191(LC 19)

#### FORCES. (lb) - Maximum Compression/Maximum Tension

TOP CHORD B-L=-1440/0, A-M=0/0, B-M=0/0, B-C=-1681/0, C-D=-1818/0, D-E=-1236/0, E-N=-92/0, F-N=-74/0, F-G=-18/48, G-H=-185/11

BOT CHORD K-L=-106/139, J-K=0/1407, I-J=0/1407, H-I=0/767

WEBS B-K=0/1860, C-K=-914/0, D-K=0/467, D-I=-693/0, E-I=0/901, E-H=-1229/0

#### NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=7.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; C-C Exterior(2); cantilever left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=17.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.00, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 12.6 psf on overhangs non-concurrent with other live loads.
- 5) Provide adequate drainage to prevent water ponding.
- 6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) H.
- 7) Following joints to be plated by qualified designer: Joint(s) H, not plated.
- 8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

|       |       |              |     |     |                          |
|-------|-------|--------------|-----|-----|--------------------------|
| Job   | Truss | Truss Type   | Qty | Ply | DCI Dialysis Clinic      |
| 19129 | T17   | Roof Special | 2   | 1   | Job Reference (optional) |

Star Truss/Star Lumber & Supply, Wichita, Kansas

8.300 s Mar 22 2019 MiTek Industries, Inc. Thu Oct 15 17:29:32 2020 Page 1

ID:PukovnlIk82OxEtBILQEF8ygzvNqp-6Ej2Kah3OPE8LqDfGJm1d8uE4wibnVewUOc2GnyT5kn

ALTERATION DETAIL:

- CUT AND REMOVE CANTILEVERED SECTION ON LEFT END OF TRUSS AS SHOWN.

PLATES AT JOINTS MUST BE CUT CLEANLY AND ACCURATELY. THE REMAINING PLATE MUST BE FULLY EMBEDDED AND UNDISTURBED

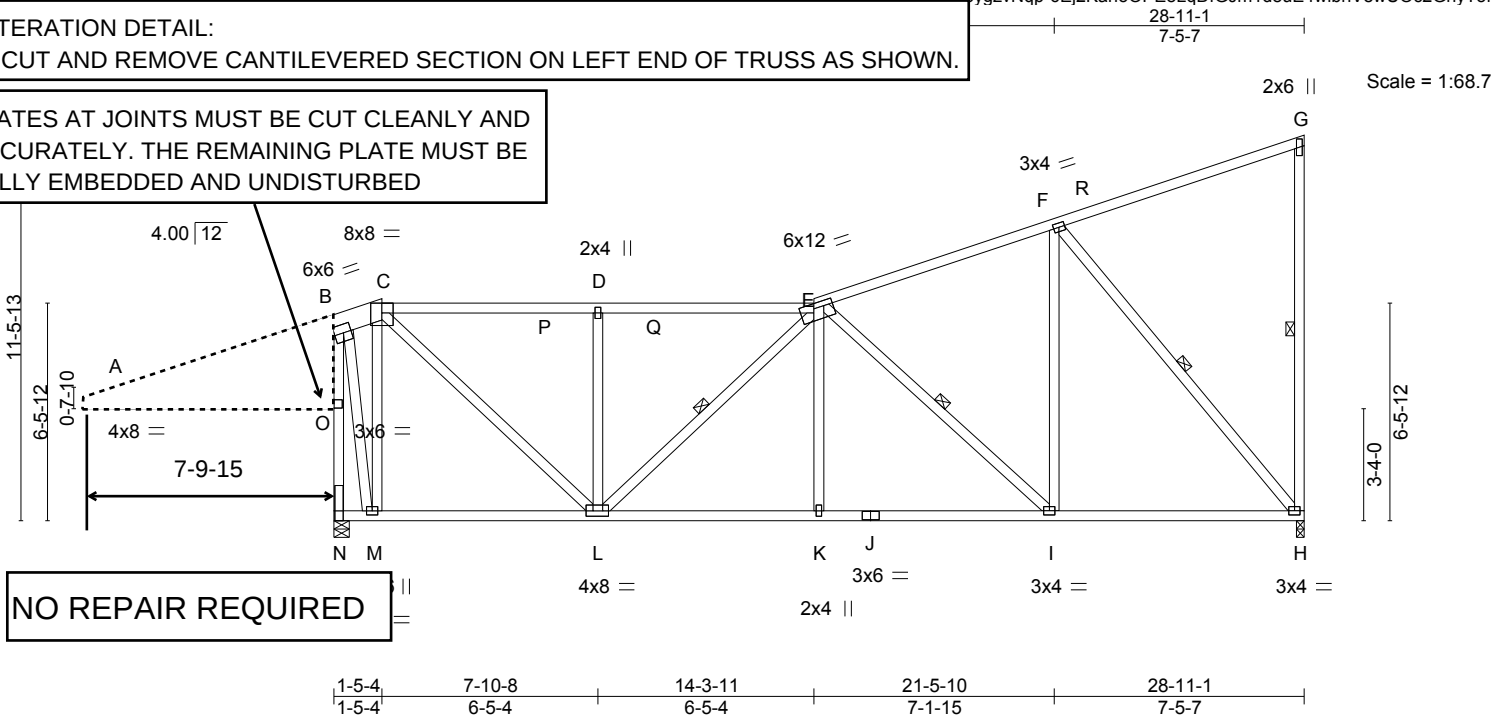


Plate Offsets (X,Y)-- [A:0-0-1,Edge], [B:0-2-12,0-3-0], [E:0-6-15,0-1-14], [L:0-2-8,0-2-0], [N:0-3-8,Edge], [O:0-3-0,0-0-3]

| LOADING (psf)          | SPACING-             | 2-0-0 | CSI.       | DEFL.    | in    | (loc) | I/defl | L/d | PLATES         | GRIP     |
|------------------------|----------------------|-------|------------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) 20.0       | Plate Grip DOL       | 1.15  | TC 0.92    | Vert(LL) | -0.05 | K     | >999   | 360 | MT20           | 197/144  |
| Snow (Pf/Pg) 17.6/20.0 | Lumber DOL           | 1.15  | BC 0.46    | Vert(CT) | -0.13 | I-K   | >999   | 240 | MII16          | 127/82   |
| TCDL 12.0              | Rep Stress Incr      | YES   | WB 0.68    | Horz(CT) | 0.04  | H     | n/a    | n/a |                |          |
| BCLL 0.0               | Code IBC2018/TPI2014 |       | Matrix-MSH | Wind(LL) | -0.01 | K     | >999   | 240 | Weight: 199 lb | FT = 15% |
| BCDL 10.0              |                      |       |            |          |       |       |        |     |                |          |

|                                                          |                                                                                                                                   |
|----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| <b>LUMBER-</b>                                           | <b>BRACING-</b>                                                                                                                   |
| TOP CHORD 2x4 SPF No.2 *Except*<br>T1: 2x8 SP 2400F 2.0E | TOP CHORD Structural wood sheathing directly applied or 4-11-2 oc purlins, except end verticals. Except:<br>3-3-0 oc bracing: N-O |
| BOT CHORD 2x4 SPF No.2                                   | BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except:<br>6-0-0 oc bracing: A-O                                    |
| WEBS 2x4 SPF No.2                                        | WEBS 1 Row at midpt G-H, E-L, E-I, F-H                                                                                            |
|                                                          | JOINTS 1 Brace at Jt(s): O                                                                                                        |

REACTIONS. (lb/size) H=972/0-2-12 (min. 0-1-14), N=1599/0-5-8 (min. 0-2-14)

Max Horz N=-127(LC 16)

Max Grav H=1177(LC 23), N=1827(LC 2)

FORCES. (lb) - Maximum Compression/Maximum Tension

TOP CHORD A-B=-39/484, B-C=-327/8, C-P=-1005/0, D-P=-1005/0, D-Q=-1008/0, E-Q=-1005/0, E-F=-868/0, F-R=-119/0, G-R=-17/60, G-H=-232/11, N-O=-1930/0, B-O=-1868/0

BOT CHORD M-N=-124/103, L-M=-142/152, K-L=0/1259, J-K=0/1262, I-J=0/1262, H-I=0/752, A-O=-301/36

WEBS C-L=0/1331, D-L=-592/11, E-L=-591/0, E-K=0/129, E-I=-748/0, F-I=0/651, F-H=-1155/0, B-M=-70/648, C-M=-504/295

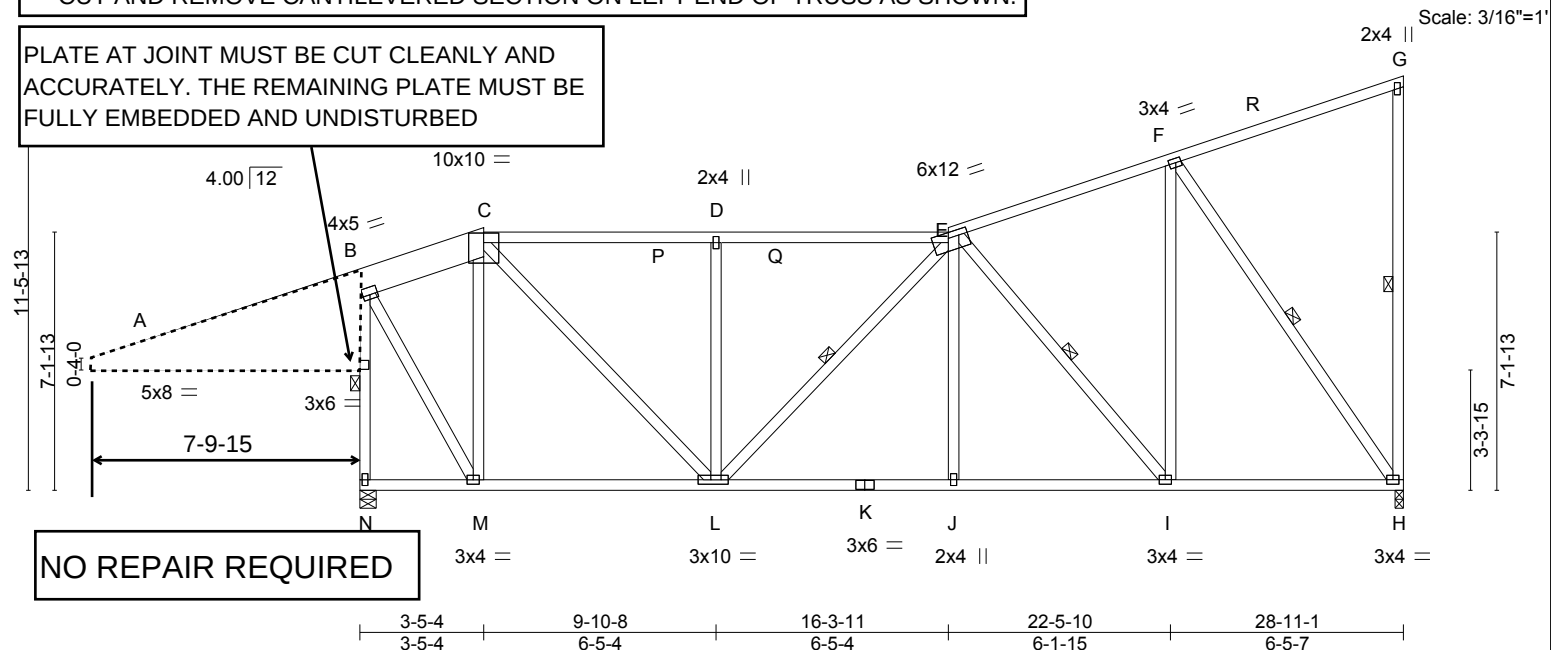
- NOTES-
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=7.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; C-C Exterior(2) -6-6-4 to 28-9-5; cantilever left and right exposed ; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=17.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.00, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 3) Unbalanced snow loads have been considered for this design.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are MT20 plates unless otherwise indicated.
- 6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) H.
- 7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

ALTERATION DETAIL:

- CUT AND REMOVE CANTILEVERED SECTION ON LEFT END OF TRUSS AS SHOWN.

PLATE AT JOINT MUST BE CUT CLEANLY AND ACCURATELY. THE REMAINING PLATE MUST BE FULLY EMBEDDED AND UNDISTURBED



|                       | 004              | 004              | 004               | 0115                                                |
|-----------------------|------------------|------------------|-------------------|-----------------------------------------------------|
| Plate Offsets (X,Y)-- | [B:0-2-8,0-2-8], | [C:0-5-0,0-3-4], | [E:0-6-9,0-1-14], | [F:0-1-12,0-1-8], [G:0-2-0,0-0-12], [L:0-4-4,0-1-8] |

[illegible]

|                                                           |                                                                                                 |
|-----------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| <b>LUMBER-</b>                                            | <b>BRACING-</b>                                                                                 |
| TOP CHORD 2x4 SPF No.2 *Except*<br>T1: 2x10 SP 2250F 1.8E | TOP CHORD Structural wood sheathing directly applied or 4-9-6 oc purlins, except end verticals. |
| BOT CHORD 2x4 SPF No.2                                    | BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.                                   |
| WEBS 2x4 SPF No.2                                         | WEBS 1 Row at midpt G-H, E-L, E-I, F-H, B-N                                                     |

**REACTIONS.** (lb/size) H=987/0-2-12 (min. 0-1-13), N=1555/0-5-8 (min. 0-2-13)  
Max Horz N=-127(LC 16)  
Max Grav H=1145(LC 2). N=1784(LC 2)

**FORCES.** (lb) - Maximum Compression/Maximum Tension

TOP CHORD    A-B=-21/292, B-C=-513/0, C-P=-1086/0, D-P=-1086/0, D-Q=-1088/0, E-Q=-1086/0, E-F=-745/0,  
F-R=-101/0, G-R=-15/41, G-H=-200/9

BOT CHORD M-N=-115/115, L-M=-13/437, K-L=0/1143, J-K=0/1143, I-J=0/1146, H-I=0/653, A-O=-118/16

WEBS C-M=-626/0, C-L=0/1022, D-L=-594/12, E-L=-328/4, E-J=0/121, E-I=-813/0, F-I=0/741, F-H=-1129/0, N-O=-1769/0, B-O=-1721/0, B-M=0/844

**NOTES-**

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=7.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; C-C Exterior(2); cantilever left and right exposed ; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=17.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.00, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 3) Unbalanced snow loads have been considered for this design.
- 4) Provide adequate drainage to prevent water ponding.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) H.
- 6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

|       |       |              |     |     |                          |
|-------|-------|--------------|-----|-----|--------------------------|
| Job   | Truss | Truss Type   | Qty | Ply | DCI Dialysis Clinic      |
| 19129 | T19   | Roof Special | 2   | 1   | Job Reference (optional) |

Star Truss/Star Lumber & Supply, Wichita, Kansas

8.300 s Mar 22 2019 MiTek Industries, Inc. Thu Oct 15 17:29:34 2020 Page 1

ID:PukovnlIk82QxElBllOE8ygzvNqp-2cqolGjKv0Usa8N2OkpVjZzf8kPoFNFDxi59KgyT5kl

ALTERATION DETAIL:

- CUT AND REMOVE CANTILEVERED SECTION ON LEFT END OF TRUSS AS SHOWN.

PLATE AT JOINT MUST BE CUT CLEANLY AND ACCURATELY. THE REMAINING PLATE MUST BE FULLY EMBEDDED AND UNDISTURBED

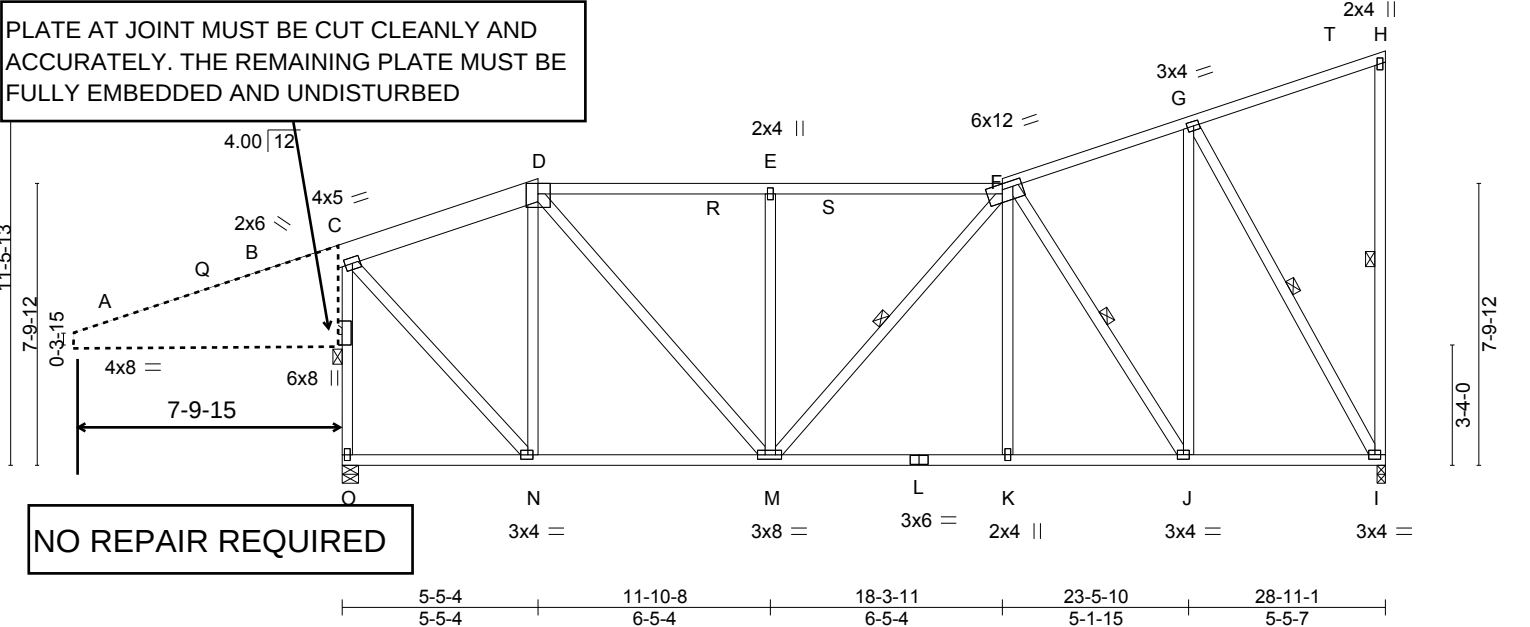


Plate Offsets (X,Y)-- [F:0-6-10,0-1-14], [G:0-1-12,0-1-8], [M:0-2-8,0-1-8], [N:0-1-12,0-1-8]

| LOADING (psf) |           | SPACING-             |      | CSI.       |      | DEFL.    |           | PLATES |     | GRIP           |          |
|---------------|-----------|----------------------|------|------------|------|----------|-----------|--------|-----|----------------|----------|
| TCLL (roof)   | 20.0      | Plate Grip DOL       | 1.15 | TC         | 0.63 | Vert(LL) | -0.04 K-M | >999   | 360 | MT20           | 197/144  |
| Snow (Pf/Pg)  | 17.6/20.0 | Lumber DOL           | 1.15 | BC         | 0.35 | Vert(CT) | -0.54 A   | >150   | 120 |                |          |
| TCDL          | 12.0      | Rep Stress Incr      | YES  | WB         | 0.80 | Horz(CT) | 0.03 I    | n/a    | n/a |                |          |
| BCLL          | 0.0       | Code IBC2018/TPI2014 |      | Matrix-MSH |      | Wind(LL) | -0.01 M   | >999   | 240 |                |          |
| BCDL          | 10.0      |                      |      |            |      |          |           |        |     | Weight: 218 lb | FT = 15' |

| LUMBER-   |                                                | BRACING-  |                                                                                        |
|-----------|------------------------------------------------|-----------|----------------------------------------------------------------------------------------|
| TOP CHORD | 2x4 SPF No.2 *Except*<br>T1: 2x8 SP 2400F 2.0E | TOP CHORD | Structural wood sheathing directly applied or 4-9-10 oc purlins, except end verticals. |
| BOT CHORD | 2x4 SPF No.2                                   | BOT CHORD | Rigid ceiling directly applied or 6-0-0 oc bracing.                                    |
| WEBS      | 2x4 SPF No.2                                   | WEBS      | 1 Row at midpt H-I, F-M, F-J, G-I, C-O                                                 |

REACTIONS. (lb/size) I=988/0-2-12 (min. 0-1-13), O=1587/0-5-8 (min. 0-2-14)

Max Horz O=-127(LC 16)

Max Grav I=1136(LC 2), O=1835(LC 2)

FORCES. (lb) - Maximum Compression/Maximum Tension

TOP CHORD A-Q=-58/619, B-Q=-46/691, B-C=-13/477, C-D=-670/0, D-R=-1076/0, E-R=-1076/0, E-S=-1079/0, F-S=-1076/0, F-G=-621/0, G-T=-84/10, H-T=-8/36, H-I=-169/8

BOT CHORD N-O=-115/103, M-N=0/601, L-M=0/979, K-L=0/979, J-K=0/982, I-J=0/542, A-P=-588/57

WEBS D-N=-548/0, D-M=0/774, E-M=-598/13, F-M=-119/190, F-K=0/115, F-J=-857/0, G-J=0/816, G-I=-1091/0, B-P=-44/459, O-P=-1796/0, C-P=-1967/0, C-N=0/912

- NOTES-
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=7.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; C-C Exterior(2); cantilever left and right exposed ; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=17.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.00, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 3) Unbalanced snow loads have been considered for this design.
- 4) Provide adequate drainage to prevent water ponding.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) I.
- 6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

|       |       |              |     |     |                          |
|-------|-------|--------------|-----|-----|--------------------------|
| Job   | Truss | Truss Type   | Qty | Ply | DCI Dialysis Clinic      |
| 19129 | T20   | Roof Special | 2   | 1   | Job Reference (optional) |

Star Truss/Star Lumber & Supply, Wichita, Kansas

8.300 s Mar 22 2019 MiTek Industries, Inc. Thu Oct 15 17:29:34 2020 Page 1

ID:Pukovnlk82QxftBIL OE8ygzvNqp-2cqolGjKv0Usa8N2OkpVjZzcYkOIFOBdXi59KgyT5k

ALTERATION DETAIL:

- CUT AND REMOVE CANTILEVERED SECTION ON LEFT END OF TRUSS AS SHOWN.

PLATE AT JOINT MUST BE CUT CLEANLY AND ACCURATELY. THE REMAINING PLATE MUST BE FULLY EMBEDDED AND UNDISTURBED

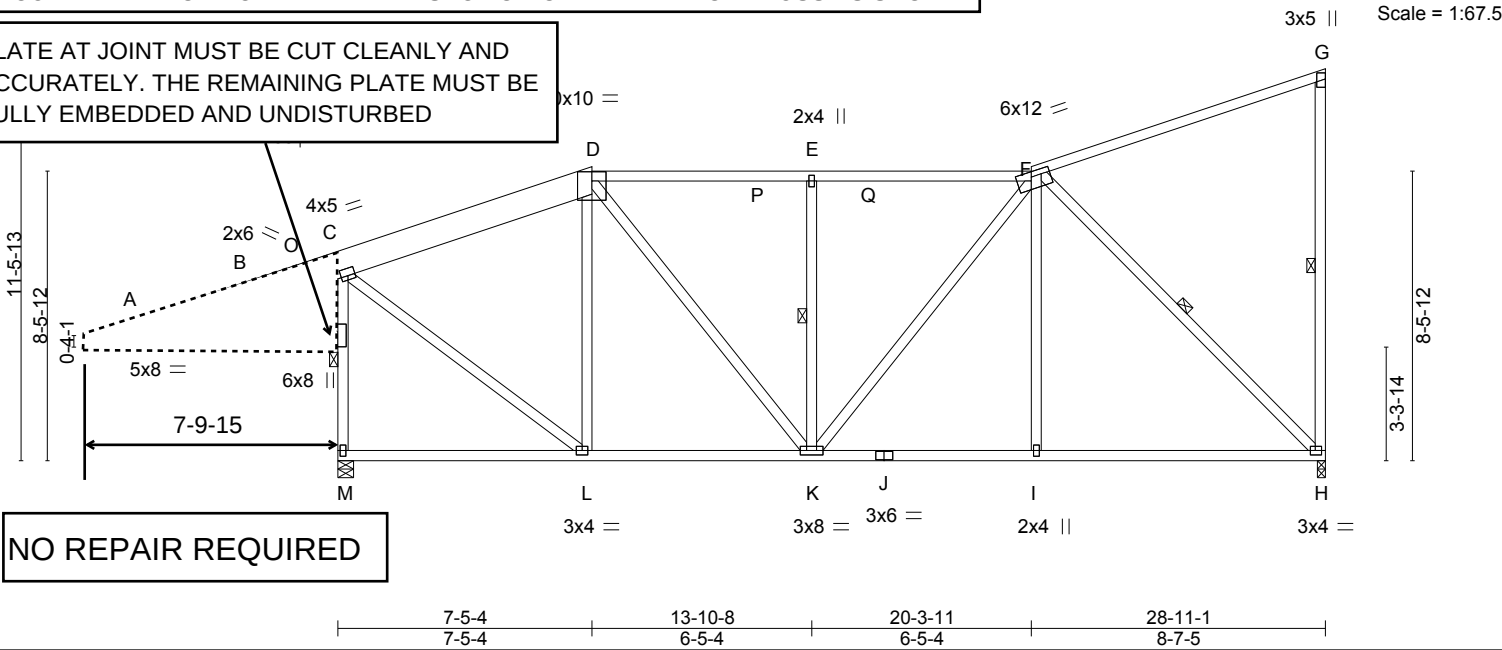


Plate Offsets (X,Y)-- [C:0-2-8,0-2-8], [D:0-5-0,0-3-4], [F:0-6-11,0-1-13], [G:Edge,0-3-8], [H:0-1-12,0-1-8], [N:0-3-6,0-3-2]

| LOADING (psf) | SPACING-  | 2-0-0 | CSI.       | DEFL. | in    | (loc) | I/defl | L/d | PLATES         | GRIP     |
|---------------|-----------|-------|------------|-------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof)   | 20.0      |       | TC         | 0.79  | -0.04 | K     | >999   | 360 | MT20           | 197/144  |
| Snow (Pf/Pg)  | 17.6/20.0 |       | BC         | 0.45  | -0.16 | H-I   | >999   | 240 |                |          |
| TCDL          | 12.0      |       | WB         | 0.74  | 0.03  | H     | n/a    | n/a |                |          |
| BCLL          | 0.0       |       | Matrix-MSH |       | -0.01 | K     | >999   | 240 |                |          |
| BCDL          | 10.0      |       |            |       |       |       |        |     | Weight: 221 lb | FT = 15' |

| LUMBER-                                                                           | BRACING-                                                                                        |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| TOP CHORD 2x10 SP 2250F 1.8E *Except*<br>T2: 2x4 SPF No.2, T3: 2x4 SPF 2100F 1.8E | TOP CHORD Structural wood sheathing directly applied or 5-0-4 oc purlins, except end verticals. |
| BOT CHORD 2x4 SPF No.2                                                            | BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.                                   |
| WEBS 2x4 SPF No.2                                                                 | WEBS 1 Row at midpt G-H, E-K, F-H, C-M                                                          |

REACTIONS. (lb/size) H=1005/0-2-12 (min. 0-1-13), M=1538/0-5-8 (min. 0-2-13)

Max Horz M=-127(LC 16)

Max GravH=1145(LC 2), M=1789(LC 23)

FORCES. (lb) - Maximum Compression/Maximum Tension

TOP CHORD A-B=-48/506, B-O=-8/317, C-O=0/346, C-D=-841/0, D-P=-1040/0, E-P=-1040/0, E-Q=-1043/0, F-Q=-1040/0, F-G=-129/87, G-H=-320/16

BOT CHORD L-M=-115/114, K-L=0/733, J-K=0/848, I-J=0/848, H-I=0/851, A-N=-418/45

WEBS D-L=-413/0, D-K=0/537, E-K=-582/11, F-K=-6/344, F-I=0/170, F-H=-1168/0, B-N=-34/332, M-N=-1732/0, C-N=-1830/0, C-L=0/927

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=7.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; C-C Exterior(2); cantilever left and right exposed ; Lumber DOL=1.33 plate grip DOL=1.33

2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=17.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.00, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.

3) Unbalanced snow loads have been considered for this design.

4) Provide adequate drainage to prevent water ponding.

5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) H.

6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

|       |       |              |     |     |                     |
|-------|-------|--------------|-----|-----|---------------------|
| Job   | Truss | Truss Type   | Qty | Ply | DCI Dialysis Clinic |
| 19129 | T21   | Roof Special | 1   | 1   |                     |

Star Truss/Star Lumber & Supply, Wichita, Kansas

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ALTERATION DETAIL:

- CUT AND REMOVE TOP CHORD OVERHANG ON LEFT END OF TRUSS AS SHOWN.

PLATE AT JOINT MUST NOT BE DAMAGED. PLATE

MUST BE FULLY EMBEDDED AND UNDISTURBED

NO REPAIR REQUIRED

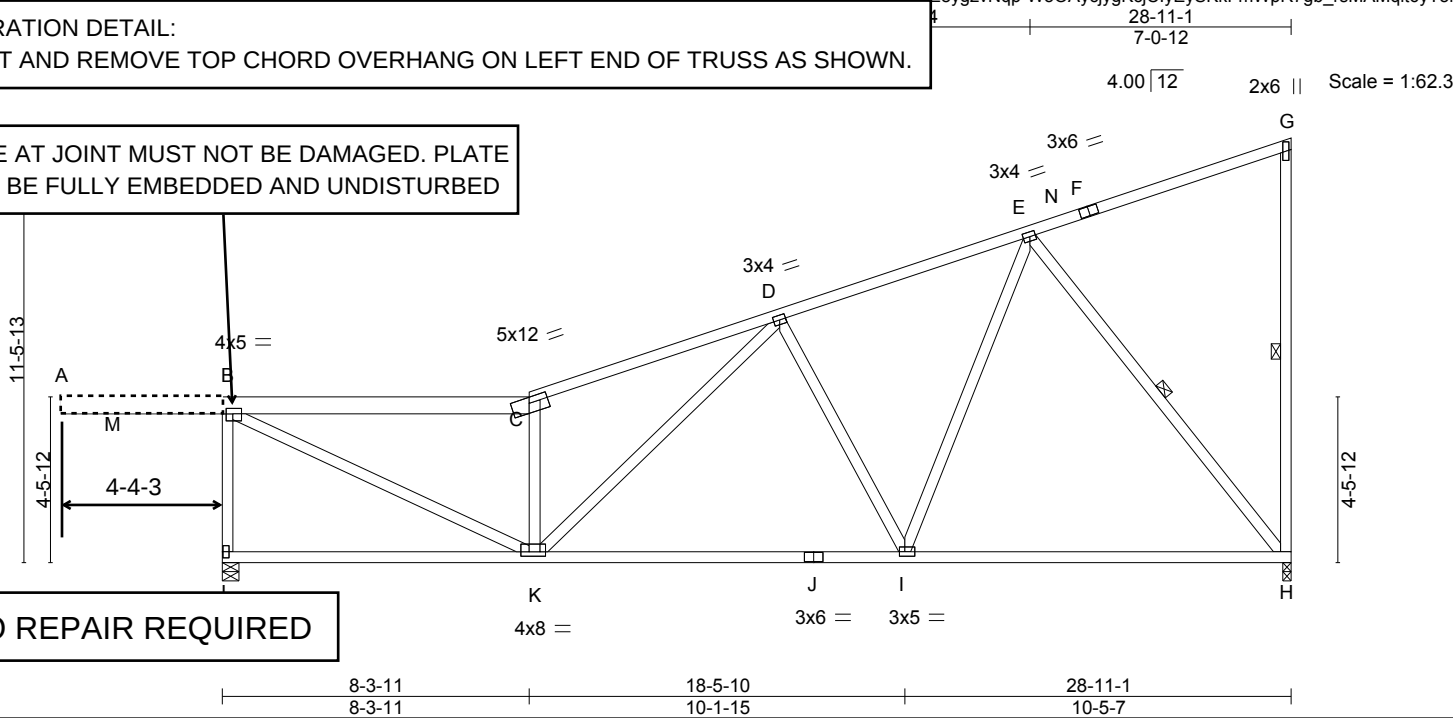


Plate Offsets (X,Y)-- [B:0-2-4,0-1-12], [C:0-6-2,0-1-14], [E:0-1-12,0-1-8], [I:0-1-12,0-1-8], [K:0-2-12,0-1-8], [L:0-2-0,0-0-4]

| LOADING (psf)  |           | SPACING-             |      | CSI.       |      | DEFL.    |        | PLATES |      | GRIP     |  |
|----------------|-----------|----------------------|------|------------|------|----------|--------|--------|------|----------|--|
| TCLL (roof)    | 20.0      | 2-0-0                |      | TC         | 0.66 | in (loc) | I/defl | L/d    | MT20 | 197/144  |  |
| Snow (Pf/Pg)   | 17.6/20.0 | Plate Grip DOL       | 1.15 | BC         | 0.70 | Vert(LL) | -0.08  | I-K    | >999 | 360      |  |
| TCDL           | 12.0      | Lumber DOL           | 1.15 | WB         | 0.72 | Vert(CT) | -0.34  | H-I    | >999 | 240      |  |
| BCLL           | 0.0       | Rep Stress Incr      | YES  | Matrix-MSH |      | Horz(CT) | 0.04   | H      | n/a  | n/a      |  |
| BCDL           | 10.0      | Code IBC2018/TPI2014 |      |            |      | Wind(LL) | -0.02  | I-K    | >999 | 240      |  |
| Weight: 153 lb |           |                      |      |            |      |          |        |        |      | FT = 150 |  |

| LUMBER-   |                                           | BRACING-  |                                                                                       |
|-----------|-------------------------------------------|-----------|---------------------------------------------------------------------------------------|
| TOP CHORD | 2x4 SPF No.2 *Except*<br>T1: 2x6 SPF No.2 | TOP CHORD | Structural wood sheathing directly applied or 3-1-9 oc purlins, except end verticals. |
| BOT CHORD | 2x4 SPF No.2                              | BOT CHORD | Rigid ceiling directly applied or 6-0-0 oc bracing.                                   |
| WEBS      | 2x4 SPF No.2                              | WEBS      | 1 Row at midpt G-H, E-H                                                               |

REACTIONS. (lb/size) L=1348/0-5-8 (min. 0-2-6), H=981/0-2-12 (min. 0-1-14)

Max Horz L=-115(LC 16)

Max Grav L=1513(LC 2), H=1191(LC 19)

FORCES. (lb) - Maximum Compression/Maximum Tension

TOP CHORD B-L=-1440/0, A-M=0/0, B-M=0/0, B-C=-1681/0, C-D=-1818/0, D-E=-1236/0, E-N=-92/0, F-N=-74/0, F-G=-18/48, G-H=-185/11

BOT CHORD K-L=-106/139, J-K=0/1407, I-J=0/1407, H-I=0/767

WEBS B-K=0/1860, C-K=-914/0, D-K=0/466, D-I=-693/0, E-I=0/901, E-H=-1229/0

- NOTES-
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=7.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; C-C Exterior(2); cantilever left and right exposed ; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=17.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.00, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 12.6 psf on overhangs non-concurrent with other live loads.
- 5) Provide adequate drainage to prevent water ponding.
- 6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) H.
- 7) Following joints to be plated by qualified designer: Joint(s) H, not plated.
- 8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

|       |       |              |     |     |                          |
|-------|-------|--------------|-----|-----|--------------------------|
| Job   | Truss | Truss Type   | Qty | Ply | DCI Dialysis Clinic      |
| 19129 | T22   | Roof Special | 1   | 1   | Job Reference (optional) |

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ALTERATION DETAIL:

- CUT AND REMOVE TOP CHORD OVERHANG ON LEFT END OF TRUSS AS SHOWN.

PLATE AT JOINT MUST NOT BE DAMAGED. PLATE

MUST BE FULLY EMBEDDED AND UNDISTURBED

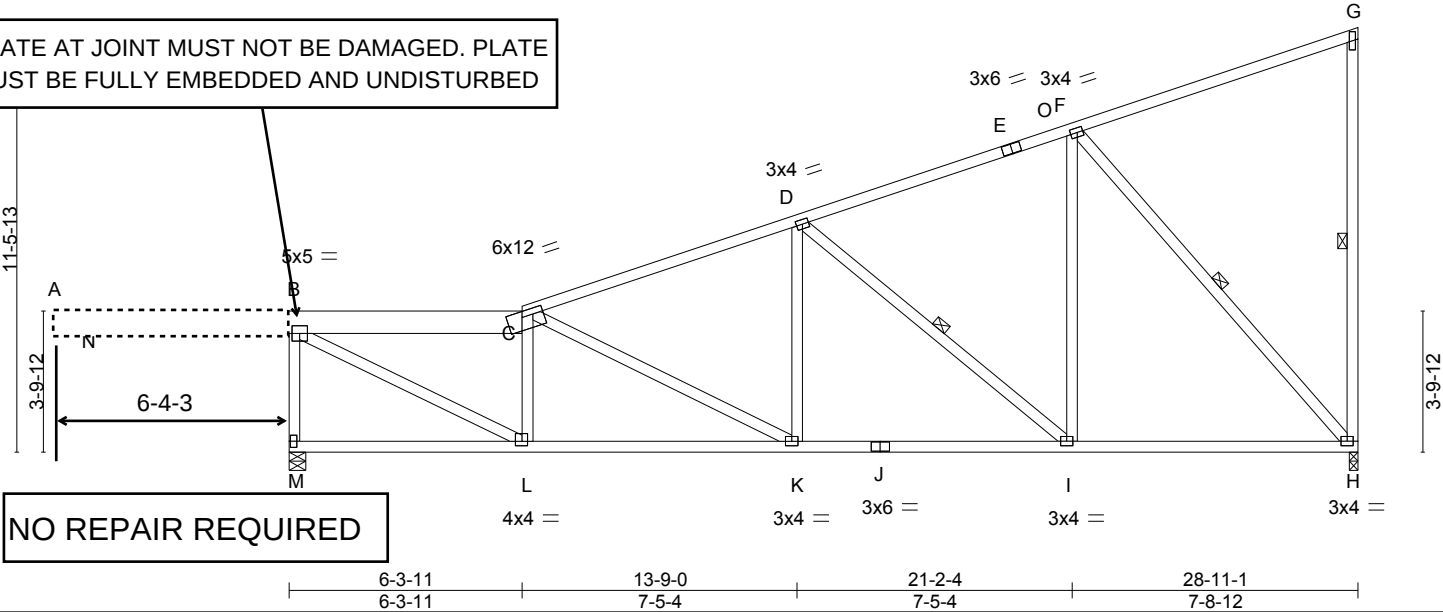


Plate Offsets (X,Y)--

[C:0-7-0,0-1-14], [F:0-1-12,0-1-8], [L:0-1-12,0-1-8], [M:0-2-0,0-0-8]

| 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         | 0.78 | Vert(LL) | -0.07  | K-L | >999           | 360       |
| Snow (Pf/Pg)  | 17.6/20.0 | Lumber DOL           | 1.15 | BC         | 0.54 | Vert(CT) | -0.55  | A-B | >141           | 80        |
| TCDL          | 12.0      | Rep Stress Incr      | YES  | WB         | 0.76 | Horz(CT) | 0.05   | H   | n/a            | n/a       |
| BCLL          | 0.0       | Code IBC2018/TPI2014 |      | Matrix-MSH |      | Wind(LL) | -0.01  | K   | >999           | 240       |
| BCDL          | 10.0      |                      |      |            |      |          |        |     | Weight: 175 lb | FT = 1500 |

| LUMBER-   | BRACING-                                                                              |
|-----------|---------------------------------------------------------------------------------------|
| TOP CHORD | 2x4 SPF No.2 *Except*                                                                 |
|           | T1: 2x8 SP 2400F 2.0E                                                                 |
| BOT CHORD | 2x4 SPF No.2                                                                          |
| WEBS      | 2x4 SPF No.2                                                                          |
|           | TOP CHORD                                                                             |
|           | Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals. |
|           | BOT CHORD                                                                             |
|           | Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: L-M.   |
|           | WEBS                                                                                  |
|           | 1 Row at midpt                                                                        |
|           | G-H, D-I, F-H                                                                         |

REACTIONS. (lb/size)

M=1474/0-5-8 (min. 0-2-10), H=954/0-2-12 (min. 0-1-13)

Max Horz M=-127(LC 16)

Max GravM=1665(LC 2), H=1159(LC 23)

FORCES. (lb) - Maximum Compression/Maximum Tension

TOP CHORD

B-M=-1611/0, A-N=0/0, B-N=0/0, B-C=-1621/0, C-D=-1696/0, D-E=-981/0, E-O=-814/0, F-O=-800/0, F-G=-99/55, G-H=-203/12

BOT CHORD

L-M=-119/140, K-L=0/1609, J-K=0/1525, I-J=0/1525, H-I=0/839

WEBS

B-L=0/1827, C-L=-717/0, C-K=-163/51, D-K=0/202, D-I=-888/0, F-I=0/728, F-H=-1258/0

- NOTES-
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=7.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; C-C Exterior(2) -6-4-3 to 28-9-5; cantilever left and right exposed ; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=17.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.00, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 12.6 psf on overhangs non-concurrent with other live loads.
- 5) Provide adequate drainage to prevent water ponding.
- 6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) H.
- 7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

|       |       |              |     |     |                          |
|-------|-------|--------------|-----|-----|--------------------------|
| Job   | Truss | Truss Type   | Qty | Ply | DCI Dialysis Clinic      |
| 19129 | T31   | Roof Special | 2   | 1   | Job Reference (optional) |

Star Truss/Star Lumber & Supply, Wichita, Kansas

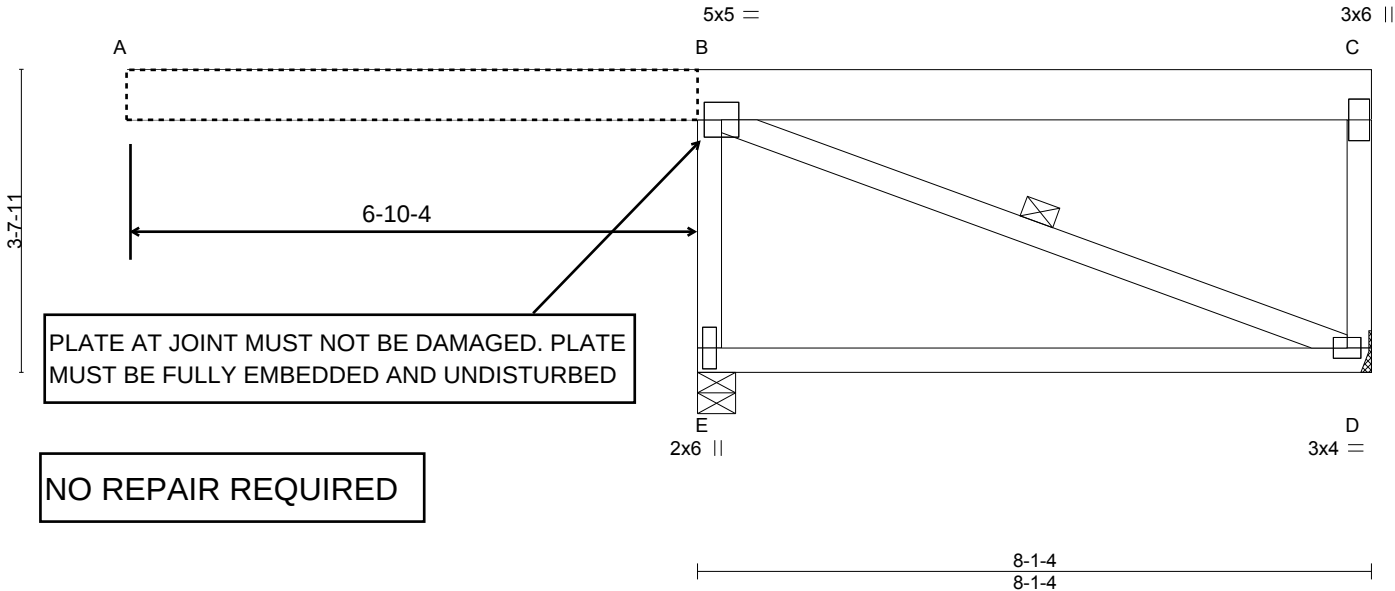
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ALTERATION DETAIL:

- CUT AND REMOVE TOP CHORD OVERHANG ON LEFT END OF TRUSS AS SHOWN.

Scale = 1:27.7



| LOADING (psf) |           | SPACING-             |            | CSI.      |      | DEFL.    |       |       |      | PLATES |      | GRIP          |          |
|---------------|-----------|----------------------|------------|-----------|------|----------|-------|-------|------|--------|------|---------------|----------|
| TCLL (roof)   | 20.0      | Plate Grip DOL       | 2-0-0 1.15 | TC        | 0.41 | Vert(LL) | 0.00  | (loc) | E    | I/defl | **** | L/d           | 360      |
| Snow (Pf/Pg)  | 17.6/20.0 | Lumber DOL           | 1.15       | BC        | 0.48 | Vert(CT) | -0.74 | A-B   | >113 |        |      |               | 80       |
| TCDL          | 12.0      | Rep Stress Incr      | YES        | WB        | 0.00 | Horz(CT) | 0.00  | D     | n/a  |        |      | n/a           |          |
| BCLL          | 0.0       | Code IBC2018/TPI2014 |            | Matrix-MP |      | Wind(LL) | 0.00  | E     | **** |        |      | 240           |          |
| BCDL          | 10.0      |                      |            |           |      |          |       |       |      |        |      | Weight: 71 lb | FT = 15% |

|                |                   |                 |                                                                                       |
|----------------|-------------------|-----------------|---------------------------------------------------------------------------------------|
| <b>LUMBER-</b> |                   | <b>BRACING-</b> |                                                                                       |
| TOP CHORD      | 2x8 SP 2400F 2.0E | TOP CHORD       | Structural wood sheathing directly applied or 8-1-4 oc purlins, except end verticals. |
| BOT CHORD      | 2x4 SPF No.2      | BOT CHORD       | Rigid ceiling directly applied or 10-0-0 oc bracing.                                  |
| WEBS           | 2x4 SPF No.2      | WEBS            | 1 Row at midpt B-D                                                                    |

**REACTIONS.** (lb/size) E=909/0-5-8 (min. 0-1-9), D=124/Mechanical  
 Max UpliftE=-436(LC 5), D=-14(LC 7)  
 Max GravE=977(LC 2), D=173(LC 12)

**FORCES.** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD B-E=-898/483, A-B=0/0, B-C=0/0, C-D=-126/92  
 BOT CHORD D-E=-0/0  
 WEBS B-D=-0/0

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=7.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; C-C Exterior(2); cantilever left and right exposed ; Lumber DOL=1.33 plate grip DOL=1.33
  - 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=17.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.00, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
  - 3) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 12.6 psf on overhangs non-concurrent with other live loads.
  - 4) Provide adequate drainage to prevent water ponding.
  - 5) Refer to girder(s) for truss to truss connections.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 436 lb uplift at joint E and 14 lb uplift at joint D.
  - 7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)**Standard

|       |       |              |     |     |                          |
|-------|-------|--------------|-----|-----|--------------------------|
| Job   | Truss | Truss Type   | Qty | Ply | DCI Dialysis Clinic      |
| 19129 | T32   | Roof Special | 2   | 1   | Job Reference (optional) |

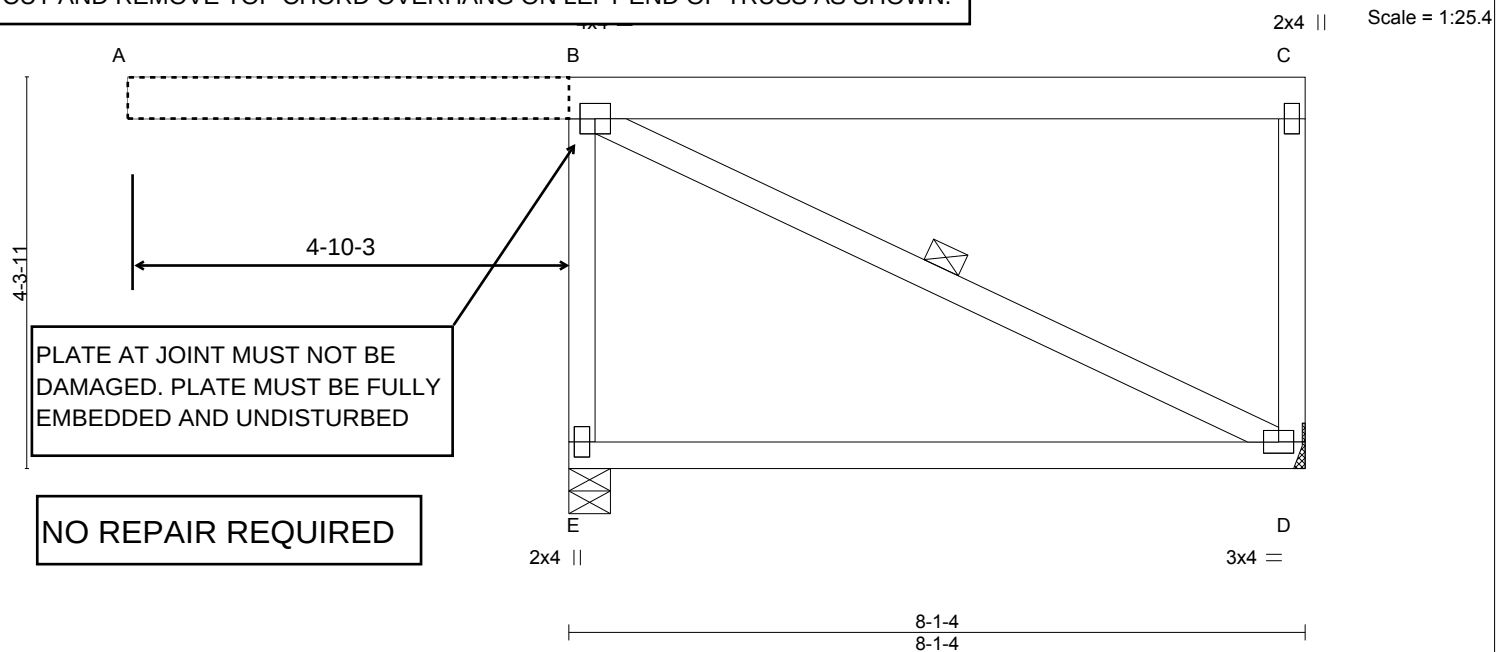
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#### ALTERATION DETAIL:

- CUT AND REMOVE TOP CHORD OVERHANG ON LEFT END OF TRUSS AS SHOWN.



| 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 0.36   | Vert(LL) | 0.00  | E     | ****   | 360 | MT20          | 197/144  |
| Snow (Pf/Pg) 17.6/20.0 | Lumber DOL           | 1.15  | BC 0.30   | Vert(CT) | -0.17 | D-E   | >539   | 240 |               |          |
| TCDL 12.0              | Rep Stress Incr      | YES   | WB 0.00   | Horz(CT) | 0.00  | D     | n/a    | n/a |               |          |
| BCLL 0.0               | Code IBC2018/TPI2014 |       | Matrix-MP | Wind(LL) | 0.00  | E     | ****   | 240 |               |          |
| BCDL 10.0              |                      |       |           |          |       |       |        |     | Weight: 57 lb | FT = 15% |

#### LUMBER-

TOP CHORD 2x6 SP 2400F 2.0E  
BOT CHORD 2x4 SPF 2100F 1.8E  
WEBS 2x4 SPF No.2

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 8-1-4 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
WEBS 1 Row at midpt B-D

#### REACTIONS. (lb/size) E=700/0-5-8 (min. 0-1-8), D=215/Mechanical

Max Uplift E=-320(LC 5), D=-51(LC 5)

Max Grav E=750(LC 2), D=240(LC 10)

#### FORCES. (lb) - Maximum Compression/Maximum Tension

TOP CHORD B-E=-672/367, A-B=0/0, B-C=0/0, C-D=-162/97

BOT CHORD D-E=-0/0

WEBS B-D=-0/0

#### NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=7.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; C-C Exterior(2); cantilever left and right exposed ; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=17.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.00, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 3) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 12.6 psf on overhangs non-concurrent with other live loads.
- 4) Provide adequate drainage to prevent water ponding.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 320 lb uplift at joint E and 51 lb uplift at joint D.
- 7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

|       |       |              |     |     |                     |
|-------|-------|--------------|-----|-----|---------------------|
| Job   | Truss | Truss Type   | Qty | Ply | DCI Dialysis Clinic |
| 19129 | T33   | Roof Special | 2   | 1   |                     |

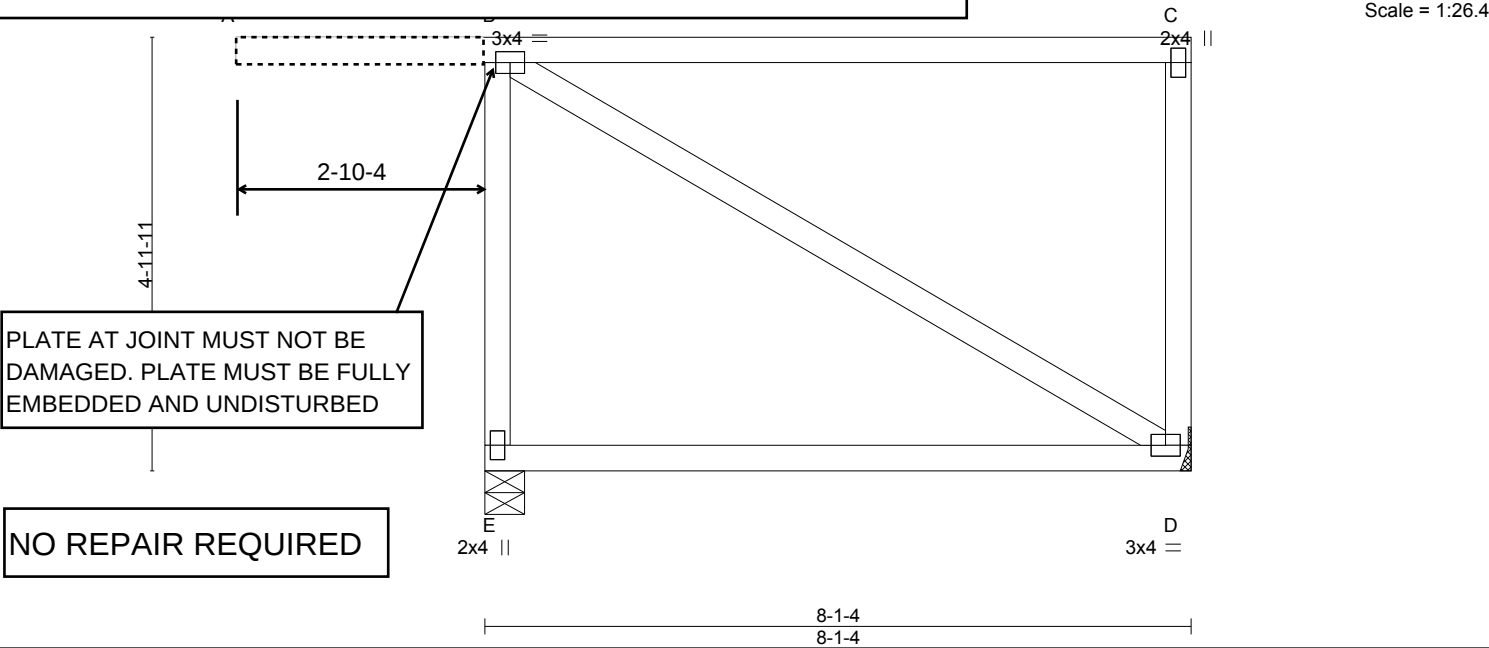
Star Truss/Star Lumber & Supply, Wichita, Kansas

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ALTERATION DETAIL:

- CUT AND REMOVE TOP CHORD OVERHANG ON LEFT END OF TRUSS AS SHOWN.



|               |  |           |  |                      |  |      |  |           |  |      |  |          |  |        |  |     |  |        |  |      |  |               |  |         |  |
|---------------|--|-----------|--|----------------------|--|------|--|-----------|--|------|--|----------|--|--------|--|-----|--|--------|--|------|--|---------------|--|---------|--|
| 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        |  | 0.83 |  | Vert(LL) |  | 0.00   |  | E   |  | ****   |  | 360  |  | MT20          |  | 197/144 |  |
| Snow (Pf/Pg)  |  | 17.6/20.0 |  | Lumber DOL           |  | 1.15 |  | BC        |  | 0.48 |  | Vert(CT) |  | -0.22  |  | D-E |  | >420   |  | 240  |  |               |  |         |  |
| TCDL          |  | 12.0      |  | Rep Stress Incr      |  | YES  |  | WB        |  | 0.00 |  | Horz(CT) |  | -0.00  |  | D   |  | n/a    |  | n/a  |  |               |  |         |  |
| BCLL          |  | 0.0       |  | Code IBC2018/TPI2014 |  |      |  | Matrix-MP |  |      |  | Wind(LL) |  | 0.00   |  | E   |  | ****   |  | 240  |  | Weight: 42 lb |  | FT =    |  |
| BCDL          |  | 10.0      |  |                      |  |      |  |           |  |      |  |          |  |        |  |     |  |        |  |      |  |               |  |         |  |

| LUMBER-   |              | BRACING-  |                                                                                       |
|-----------|--------------|-----------|---------------------------------------------------------------------------------------|
| TOP CHORD | 2x4 SPF No.2 | TOP CHORD | Structural wood sheathing directly applied or 6-3-0 oc purlins, except end verticals. |
| BOT CHORD | 2x4 SPF No.2 | BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing.                                  |
| WEBS      | 2x4 SPF No.2 |           |                                                                                       |

REACTIONS. (lb/size) E=521/0-5-8 (min. 0-1-8), D=275/Mechanical

Max UpliftE=-221(LC 5), D=-84(LC 5)

Max GravE=557(LC 2), D=291(LC 2)

FORCES. (lb) - Maximum Compression/Maximum Tension

TOP CHORD B-E=-479/268, A-B=0/0, B-C=0/0, C-D=-213/131

BOT CHORD D-E=-0/0

WEBS B-D=-0/0

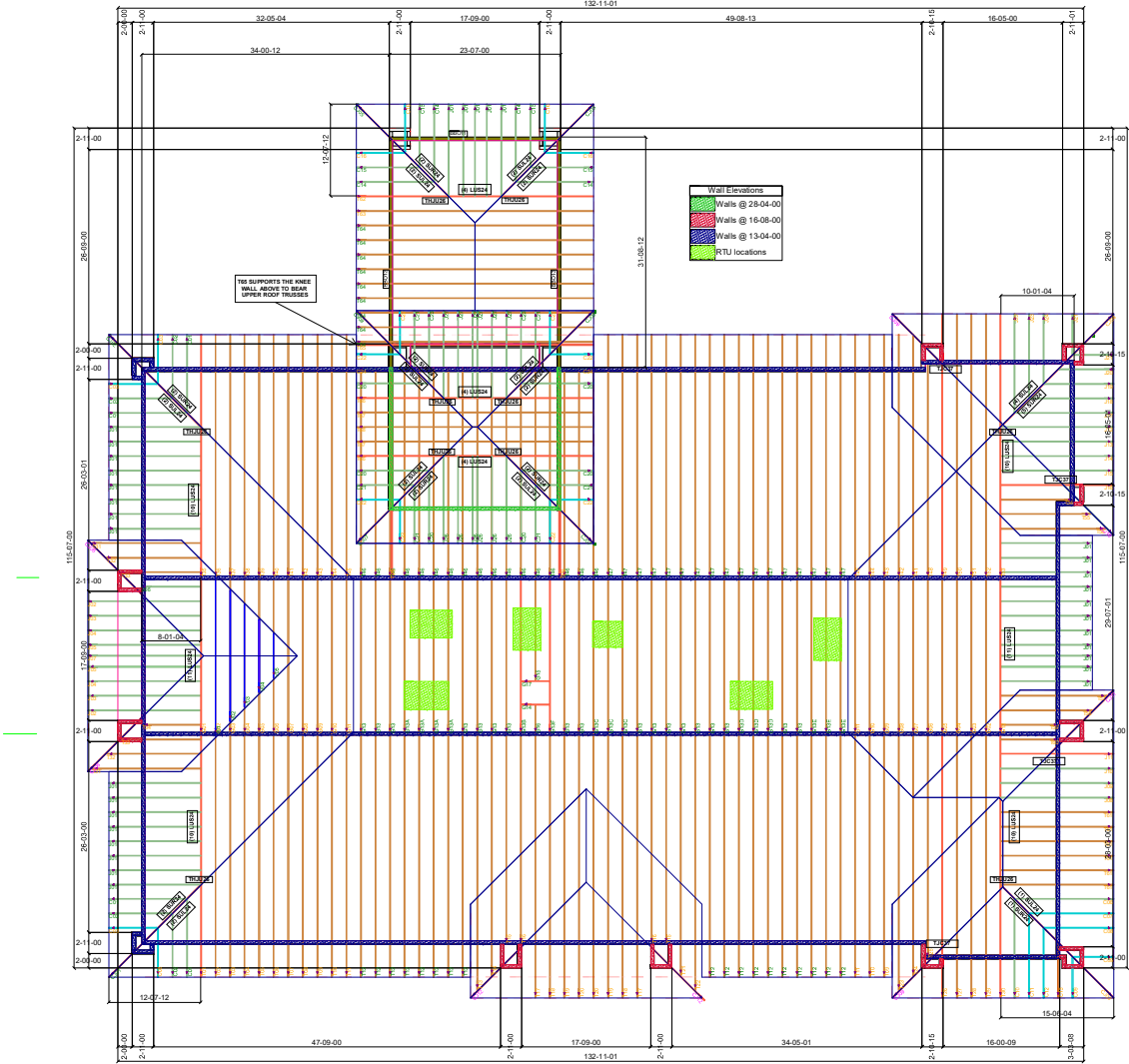
- NOTES-
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=7.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; C-C Exterior(2); cantilever left and right exposed ; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=17.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.00, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 3) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 12.6 psf on overhangs non-concurrent with other live loads.
- 4) Provide adequate drainage to prevent water ponding.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 221 lb uplift at joint E and 84 lb uplift at joint D.
- 7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

THIS IS A TRUSS PLACEMENT DRAWING ONLY. The sole purpose of this drawing is to verify Perfection Structural Components' interpretation of the placement of trusses as indicated on the plans and specs provided to Perfection Structural Components. These trusses are designed as individual building components to be incorporated into the building designs at the specification of the building designer. See individual design sheets for each truss design identified on the placement drawing. Verify all dimensions. The building designer is responsible for the permanent bracing of the floor and roof system. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. All conventional framing shall uniformly transfer load to roof trusses below. Conventional framing is to be designed by others. For general guidance regarding bracing, consult 'Bracing of Wood Trusses' available from the Truss Plate Institute, 583 D'Onifrio Drive, Madison, WI 53179.

Today's Date: 11/24/2020

ROOF TRUSS LAYOUT 24" O/C  
JOB #22242 (NOT TO SCALE)



FABRICATED TRUSS SHOP DRAWING

- ☒ No Exceptions
- ☐ Exceptions Noted
- ☐ Revise and Resubmit

Shop drawings are for items not designed by the Structural Engineer of Record (SEOR). Reviewed by the SEOR only for loads imposed on the submitted item(s). Comments made on the shop drawings do not relieve the truss designer/supplier from compliance with the requirements of the plans and specifications. The Contractor is responsible for verifying and coordinating all dimensions, elevations, and layouts with contract documents and

EMC STRUCTURAL ENGINEERS, P.C.

BY DBorsos DATE 11-30-20



Dan Frazier 316-619-5875

Axiom Northwest Construction

DCI Dialysis Clinic

2001 NW Shamrock Rd

Lee's Summit, MO 64081

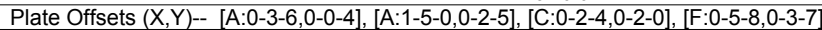
Roof Data

Roof Area: 12569 ft² sq.ft.  
Rigde Lines: 49 ft lf.  
Hip Lines: 485 ft lf.  
Valley Lines: 138 ft lf.

**Revise and Resubmit**

8.300 s Mar 22 2019 MiTek Industries, Inc. Thu Oct 15 17:14:15 2020 Page 1  
ID:PukoyPuk2QxFTBLOE8yggZuop-SuNobuSLIFvnc2Eeb2mPdEHknRoKxcDz0bRyT5.6

**DATE** 11-30-20



Christopher J. Newhouse, P.E.  
License # 24260  
SCA Consulting Engineers  
C.O.A. # 001378 Exp 12/31/21  
12511 Emily Court  
Sugar Land, TX 77478  
713-779-7252

## VTCR

## Single-Sided Valley Truss Clip



This product is preferable to similar connectors because of (a) easier installation, (b) higher loads, (c) lower installed cost, or a combination of these features.

The VTCR is a single-sided valley truss clip that provides a positive connection between the valley truss and the supporting framing below. Installed on top of the roof sheathing, it eliminates the need to add a support wedge under the valley truss or to bevel the bottom chord to match the roof pitch.

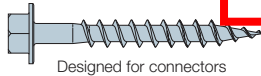
- Single-sided for new construction or retrofit applications — can be installed after the valley truss is set in place
- Accommodates pitches from 0/12 to 12/12
- Can be installed on either beveled or non-beveled bottom chords
- Installs with nails or Strong-Drive® SD Connector screws

**Material:** 18 gauge **Finish:** Galvanized

**Installation:**

- The dome holes assist in installing the fasteners into the supporting framing at approximately 45°

**Codes:** See p. 12 for Code Reference Key Chart

**STRUCTURAL PRODUCT SUBMITTAL**

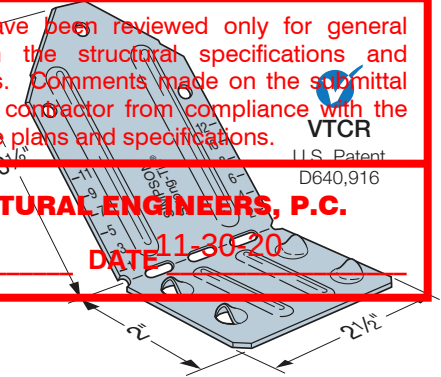
- ☒ Conforms
- ☐ Conforms with Revisions Noted
- ☐ Non-conforming - Revise & Resubmit
- ☐ Rejected

The product(s) have been reviewed only for general performance with the structural specifications and structural drawings. Comments made on the submittal do not relieve the contractor from compliance with the requirements of the plans and specifications.

**EMC STRUCTURAL ENGINEERS, P.C.**

BY DBorsos

DATE 11-30-20



**SD** Many of these products are approved for installation with Strong-Drive® SD Connector screws. See pp. 335–337 for more information.

| Model No. | Fasteners (in.)    |                   | Supporting Roof Pitch | DF/SP Allowable Loads     |                                         | SPF/HF Allowable Loads    |                                         | Code Ref. |
|-----------|--------------------|-------------------|-----------------------|---------------------------|-----------------------------------------|---------------------------|-----------------------------------------|-----------|
|           | Supporting Framing | Valley Truss      |                       | Uplift <sup>3</sup> (160) | Download <sup>5</sup> (100/115/125/160) | Uplift <sup>3</sup> (160) | Download <sup>6</sup> (100/115/125/160) |           |
| VTCR      | (4) 0.148 x 3      | (3) 0.148 x 1 1/2 | < 4/12                | 370                       | 790                                     | 320                       | 655                                     | IBC, FL   |
|           |                    |                   | 4/12 to 12/12         | 370                       | 790                                     | 320                       | 655                                     |           |
|           | (4) SD #9 x 2 1/2  | (3) SD #9 x 1 1/2 | < 4/12                | 390                       | 790                                     | 335                       | 655                                     |           |
|           |                    |                   | 4/12 to 12/12         | 495                       | 790                                     | 425                       | 655                                     |           |

1. Uplift loads have been increased for earthquake or wind loading with no further increase allowed. Reduce where other loads govern.

2. Loads are based on installation over 7/16" or 1/2" sheathing. For installation over 1/4" or 3/8" sheathing, allowable uplift loads are 285 lb. (DF/SP) and 245 lb. (SPF/HF) when installed with nails, or 370 lb. (DF/SP) and 320 lb. (SPF/HF) when installed with screws.

3. When attached directly to the supporting framing with either screws or nails, the allowable uplift for pitches less than 4/12 is 240 lb. (DF/SP) and 205 lb. (SPF/HF). For pitches 4/12 to 12/12, use the tabulated uplift loads.

4. Allowable uplift loads are based on the lower of the test loads at 3/16" deflection or the ultimate load divided by a safety factor of three.

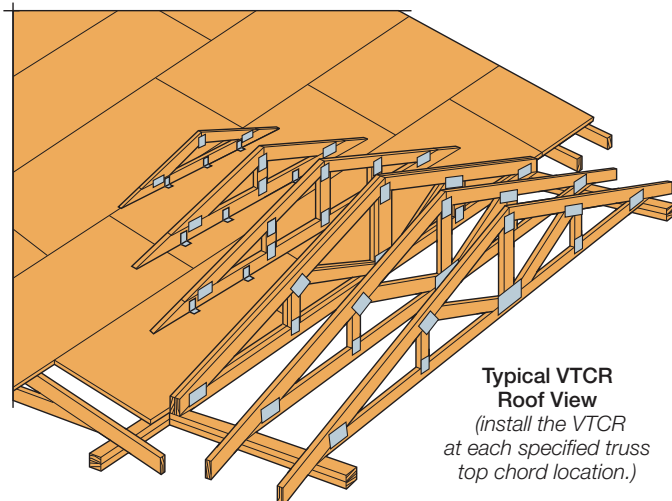
5. Southern pine allowable download is 750 lb.

6. Hem-fir allowable download is 625 lb.

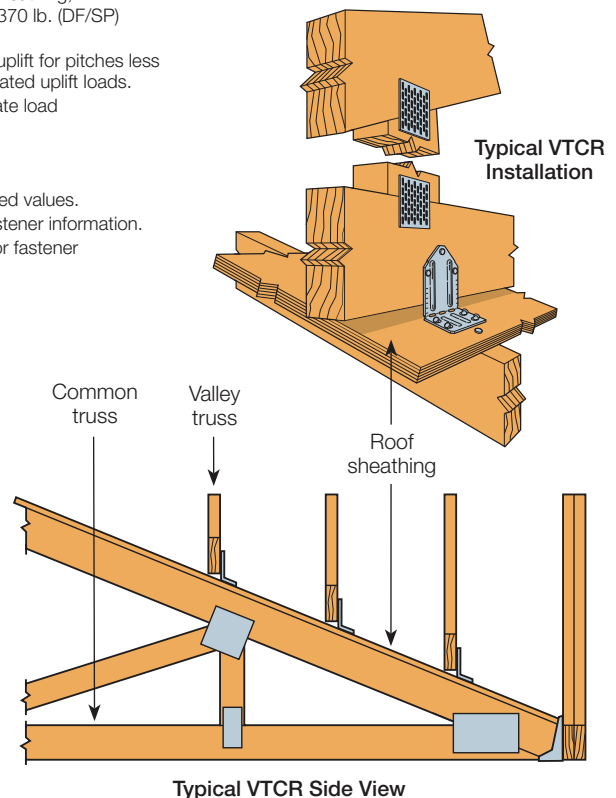
7. When the valley truss and supporting framing are of different species, use the lower tabulated values.

8. **Fasteners:** Nail dimensions in the table are listed diameter by length. See pp. 21–22 for fastener information.

9. **Fasteners:** SD screws are Simpson Strong-Tie® Strong-Drive® screws. See pp. 335–337 for fastener information.



**Typical VTCR Roof View**  
(install the VTCR at each specified truss top chord location.)



**Typical VTCR Side View**