MiTek®

Calculations required to be provided by the Permittee on site for all Inspections

PRMU20240139

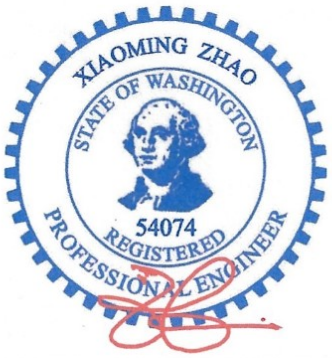
**MiTek, Inc.**
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571

Re: 3871615
MKM LEGACY EAST TOWN CROSSING

The truss drawing(s) referenced below have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Builders FirstSource (Arlington, WA).

Pages or sheets covered by this seal: R80934073 thru R80934195

My license renewal date for the state of Washington is September 28, 2025.


February 22,2024

Zhao, Xiaoming

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

City of Puyallup
Development & Permitting Services
ISSUED PERMIT
Building | Planning
Engineering | Public Works
Fire | Traffic

**City of Puyallup**
**Building**
**REVIEWED FOR COMPLIANCE**
BSnowden
02/06/2025
9:01:34 AM
CITY OF PUYALLUP
STATE OF WASHINGTON

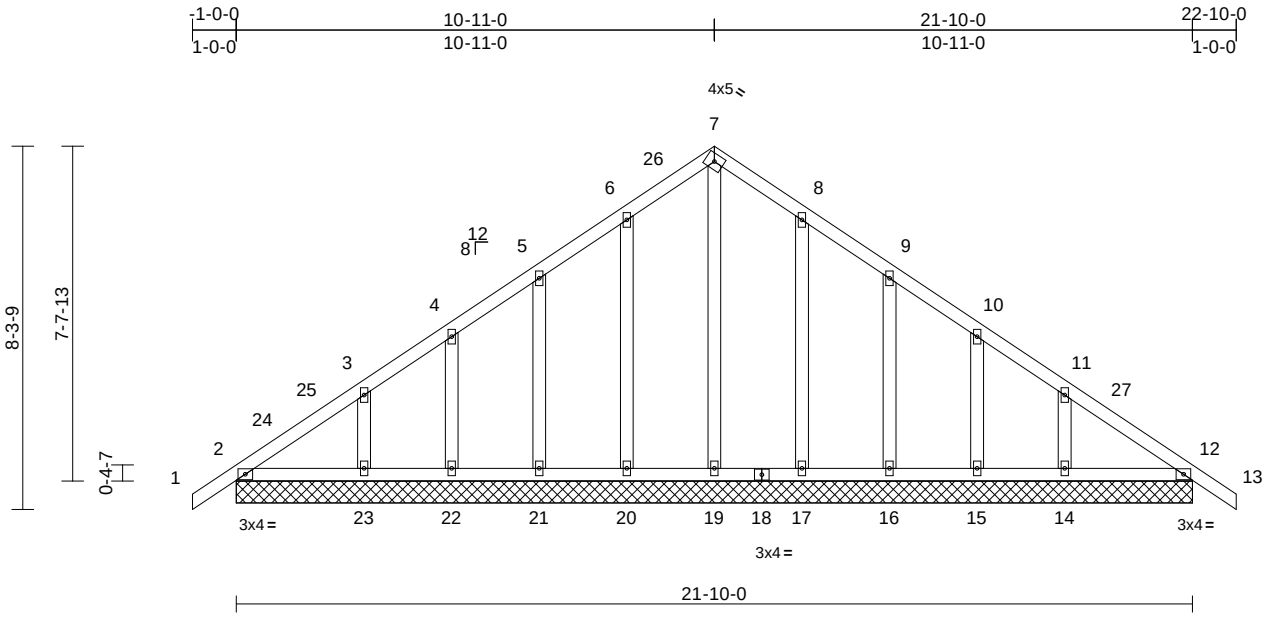
| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934073 |
|---|---|---|---|---|---|
| 3871615 | A01 | Common Supported Gable | 4 | 1 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:12:56 Page: 1

ID:9S9AttKzT5168byv0WyOafzjZFY-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

PRMU20240139




Scale = 1:52.6

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.15 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 185/148 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.06 | Vert(CT) | n/a | - | n/a | 999 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.15 | Horz(CT) | 0.00 | 12 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-SH | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 103 lb | FT = 10% |

**LUMBER**

TOP CHORD 2x4 HF No.2
BOT CHORD 2x4 HF No.2
OTHERS 2x4 HF No.2

**BRACING**

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

**REACTIONS** (size) 2=21-10-0, 12=21-10-0, 14=21-10-0, 15=21-10-0, 16=21-10-0, 17=21-10-0, 19=21-10-0, 20=21-10-0, 21=21-10-0, 22=21-10-0, 23=21-10-0
Max Horiz 2=134 (LC 11)
Max Uplift 2=-9 (LC 8), 14=-47 (LC 13), 15=-31 (LC 13), 16=-37 (LC 13), 17=-34 (LC 13), 20=-17 (LC 12), 21=-16 (LC 12), 22=-14 (LC 12), 23=-21 (LC 12)
Max Grav 2=234 (LC 1), 12=230 (LC 1), 14=275 (LC 1), 15=175 (LC 1), 16=205 (LC 1), 17=206 (LC 1), 19=190 (LC 23), 20=225 (LC 1), 21=226 (LC 1), 22=192 (LC 1), 23=302 (LC 1)

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

TOP CHORD 1-2=0/68, 2-3=-142/117, 3-4=-122/80, 4-5=-105/79, 5-6=-98/101, 6-7=-100/135, 7-8=-95/134, 8-9=-71/94, 9-10=-66/50, 10-11=-79/28, 11-12=-113/69, 12-13=0/68
BOT CHORD 2-23=-51/100, 22-23=-51/100, 21-22=-51/100, 20-21=-51/100, 19-20=-51/100, 17-19=-51/100, 16-17=-51/100, 15-16=-51/100, 14-15=-51/100, 12-14=-51/100
WEBS 7-19=-149/40, 6-20=-186/41, 5-21=-183/42, 4-22=-162/36, 3-23=-236/52, 8-17=-167/58, 9-16=-162/63, 10-15=-144/54, 11-14=-210/77

**NOTES**

1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -1-0-0 to 2-0-0, Exterior(2N) 2-0-0 to 10-11-0, Corner(3R) 10-11-0 to 13-11-0, Exterior(2N) 13-11-0 to 22-10-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
10) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 9 lb uplift at joint 2, 17 lb uplift at joint 20, 16 lb uplift at joint 21, 14 lb uplift at joint 22, 21 lb uplift at joint 23, 34 lb uplift at joint 17, 37 lb uplift at joint 16, 31 lb uplift at joint 15 and 47 lb uplift at joint 14.
12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
13) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

**LOAD CASE(S)** Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-24=-80, 24-26=-90, 7-26=-80, 7-13=-80, 2-12=-20


February 22,2024




MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

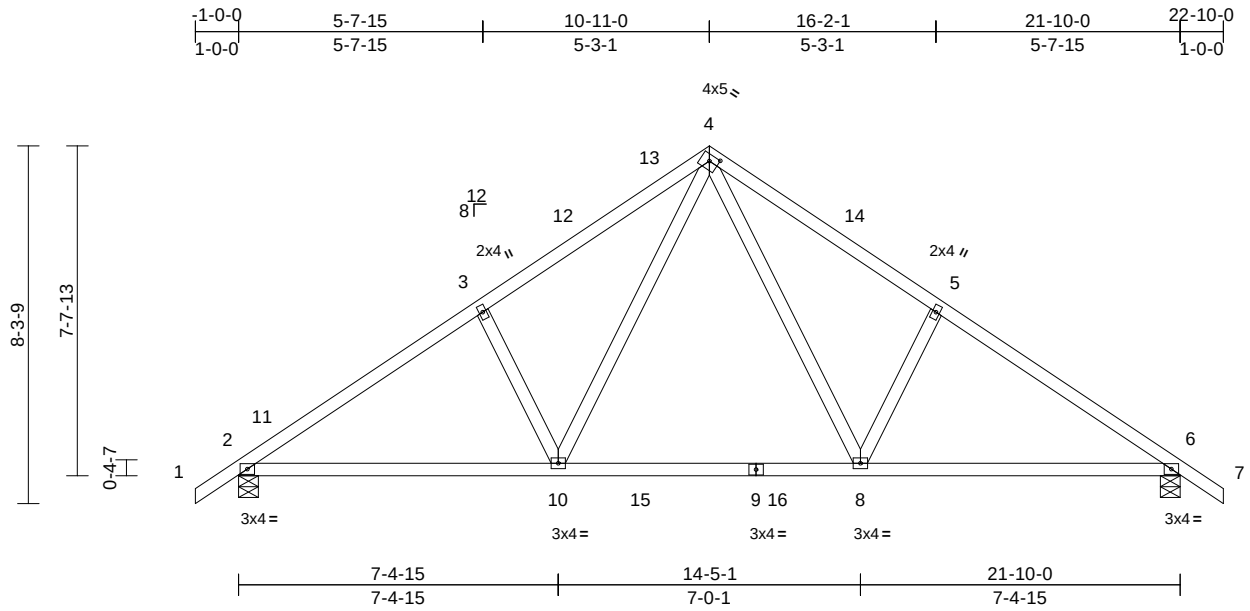
| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934074 |
|---|---|---|---|---|---|
| 3871615 | A02 | Common | 24 | 1 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:13:04 Page: 1

ID:gvzfqTI1jgCJpNNN_SPD5WzjZGu-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

PRMU20240139




Scale = 1:53.4

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.56 | Vert(LL) | -0.10 | 8-10 | >999 | 240 | MT20 | 185/148 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.68 | Vert(CT) | -0.19 | 2-10 | >999 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.14 | Horz(CT) | 0.04 | 6 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-SH | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 87 lb | FT = 10% |

**LUMBER**

TOP CHORD 2x4 HF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x4 HF No.2

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 3-11-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (size) 2=0-5-8, 6=0-5-8
Max Horiz 2=-134 (LC 10)
Max Uplift 6=-14 (LC 13)
Max Grav 2=1302 (LC 20), 6=1256 (LC 21)

**FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/72, 2-3=-1713/0, 3-4=-1541/30, 4-5=-1496/51, 5-6=-1629/7, 6-7=0/72
BOT CHORD 2-10=0/1409, 8-10=0/910, 6-8=0/1279
WEBS 4-8=-54/690, 5-8=-365/147, 4-10=-1/743, 3-10=-416/96

**NOTES**

1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 10-11-0, Exterior(2R) 10-11-0 to 13-11-0, Interior (1) 13-11-0 to 22-10-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
3) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 14 lb uplift at joint 6.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

**LOAD CASE(S)** Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-11=-80, 11-13=-90, 4-13=-80, 4-7=-80, 2-6=-20


February 22,2024



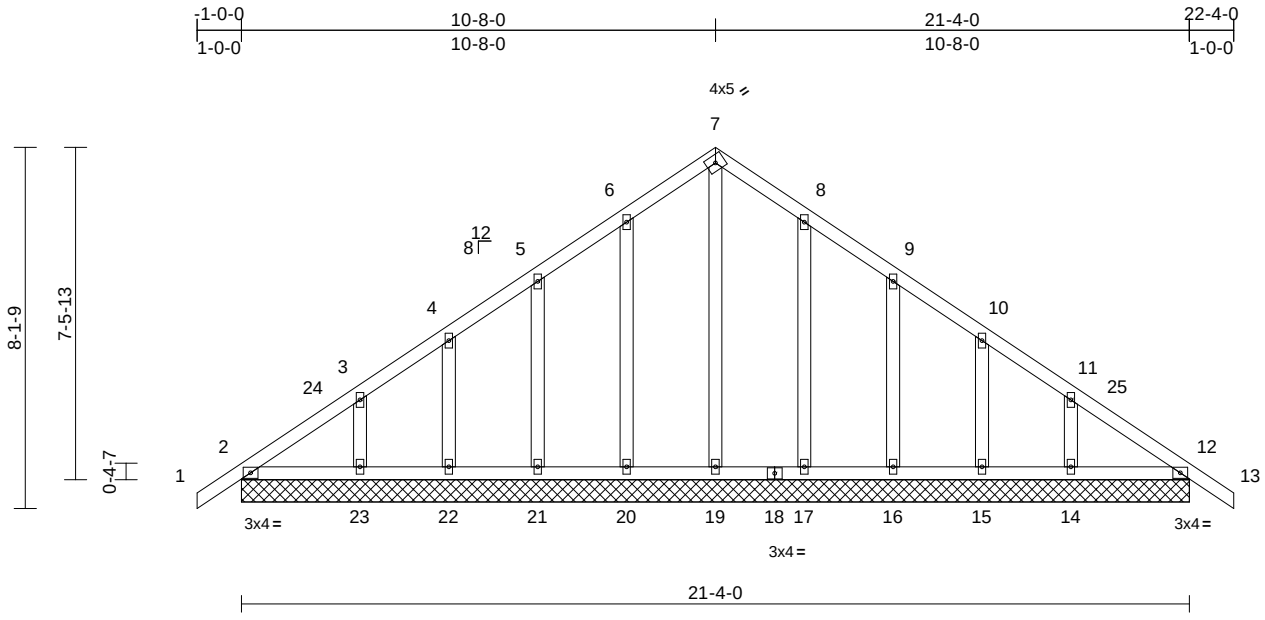

MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934075 |
|---|---|---|---|---|---|
| 3871615 | B01 | Common Supported Gable | 4 | 1 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:13:06 Page: 1

ID:D997kR7NwNMl2k?buN8tFazjZEW-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f PRMU20240139




Scale = 1:51.9

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.13 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 185/148 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.06 | Vert(CT) | n/a | - | n/a | 999 | | |
| TCDL | 15.0 | Rep Stress Incr | YES | WB | 0.14 | Horz(CT) | 0.00 | 12 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-SH | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 100 lb | FT = 10% |

**LUMBER**

TOP CHORD 2x4 HF No.2
BOT CHORD 2x4 HF No.2
OTHERS 2x4 HF No.2

**BRACING**

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

**REACTIONS** (size) 2=21-4-0, 12=21-4-0, 14=21-4-0, 15=21-4-0, 16=21-4-0, 17=21-4-0, 19=21-4-0, 20=21-4-0, 21=21-4-0, 22=21-4-0, 23=21-4-0
Max Horiz 2=-131 (LC 10)
Max Uplift 2=-15 (LC 8), 14=-43 (LC 13), 15=-33 (LC 13), 16=-37 (LC 13), 17=-34 (LC 13), 20=-35 (LC 12), 21=-36 (LC 12), 22=-33 (LC 12), 23=-44 (LC 12)
Max Grav 2=221 (LC 1), 12=221 (LC 1), 14=252 (LC 1), 15=184 (LC 1), 16=203 (LC 1), 17=207 (LC 1), 19=187 (LC 23), 20=207 (LC 1), 21=203 (LC 1), 22=184 (LC 1), 23=252 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/68, 2-3=-133/105, 3-4=-113/77, 4-5=-100/71, 5-6=-92/96, 6-7=-93/133, 7-8=-93/133, 8-9=-69/92, 9-10=-66/48, 10-11=-78/31, 11-12=-109/63, 12-13=0/68
BOT CHORD 2-23=-50/99, 22-23=-50/99, 21-22=-50/99, 20-21=-50/99, 19-20=-50/99, 17-19=-50/99, 16-17=-50/99, 15-16=-50/99, 14-15=-50/99, 12-14=-50/99
WEBS 7-19=-146/40, 6-20=-168/59, 5-21=-161/63, 4-22=-150/57, 3-23=-195/74, 8-17=-168/58, 9-16=-161/63, 10-15=-150/57, 11-14=-195/74

**NOTES**

1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -1-0-0 to 2-0-0, Exterior(2N) 2-0-0 to 10-8-0, Corner(3R) 10-8-0 to 13-8-0, Exterior(2N) 13-8-0 to 22-4-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
10) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 15 lb uplift at joint 2, 35 lb uplift at joint 20, 36 lb uplift at joint 21, 33 lb uplift at joint 22, 44 lb uplift at joint 23, 34 lb uplift at joint 17, 37 lb uplift at joint 16, 33 lb uplift at joint 15 and 43 lb uplift at joint 14.
12) 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


February 22,2024



MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

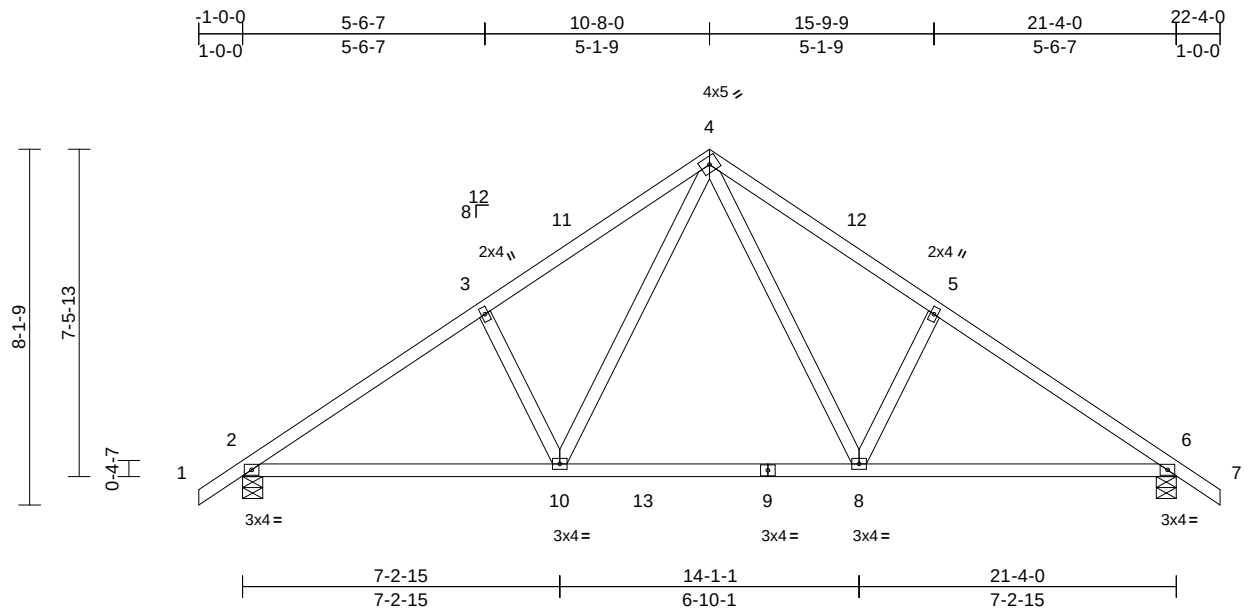
| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934076 |
|---|---|---|---|---|---|
| 3871615 | B02 | Common | 14 | 1 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:13:06 Page: 1

ID:9?D10VIISXJHDpZR0fZMyqzjZF0-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

PRMU20240139




Scale = 1:52.6

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.41 | Vert(LL) | -0.09 | 8-10 | >999 | 240 | MT20 | 185/148 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.57 | Vert(CT) | -0.17 | 6-8 | >999 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | YES | WB | 0.13 | Horz(CT) | 0.04 | 6 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-SH | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 85 lb | FT = 10% |

**LUMBER**

TOP CHORD 2x4 HF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x4 HF No.2

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 4-2-1 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (size) 2=0-5-8, 6=0-5-8
Max Horiz 2=-131 (LC 10)
Max Uplift 2=-35 (LC 12), 6=-35 (LC 13)
Max Grav 2=1206 (LC 20), 6=1205 (LC 21)

**FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/72, 2-3=-1548/43, 3-4=-1419/86, 4-5=-1418/86, 5-6=-1548/43, 6-7=0/72
BOT CHORD 2-10=-49/1297, 8-10=0/854, 6-8=0/1214
WEBS 4-8=-50/671, 5-8=-357/141, 4-10=-50/673, 3-10=-357/141

**NOTES**

1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 10-8-0, Exterior(2R) 10-8-0 to 13-8-0, Interior (1) 13-8-0 to 22-4-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
3) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 35 lb uplift at joint 2 and 35 lb uplift at joint 6.
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


February 22,2024



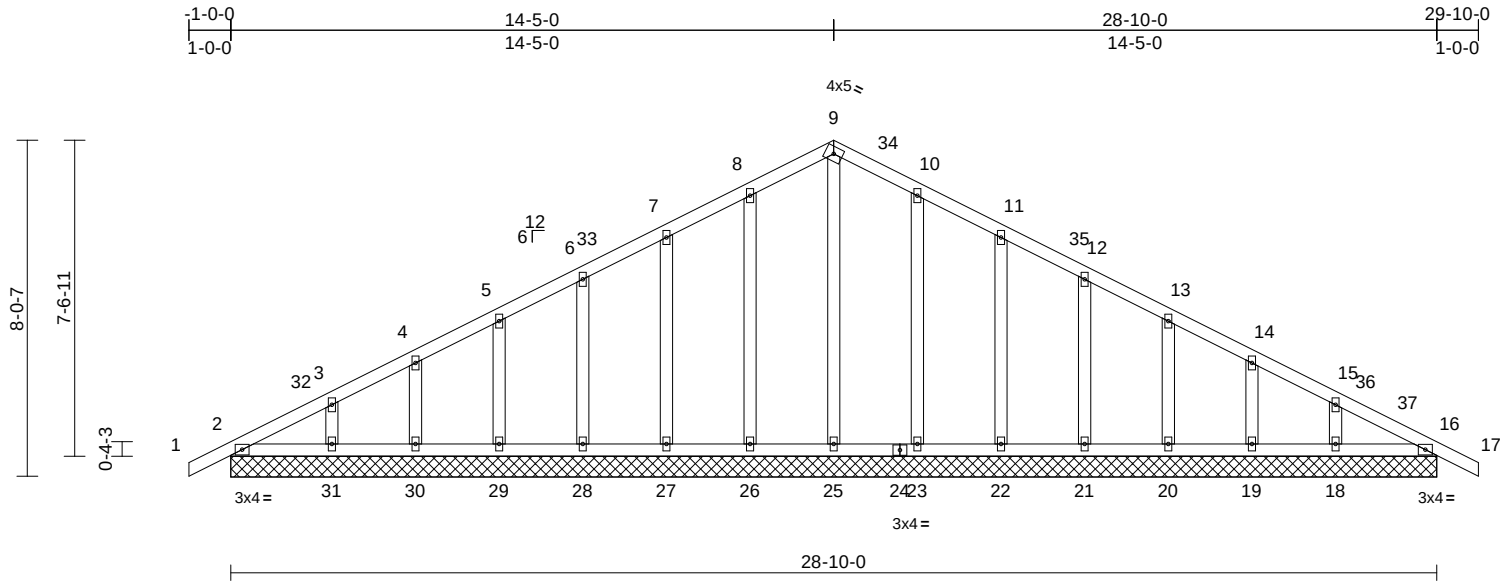
MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934077 |
|---|---|---|---|---|---|
| 3871615 | C01 | Common Supported Gable | 2 | 1 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:13:07 Page: 1
ID:BKfs5V1wP6bhrdLjynR9zBzjZAm-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

PRMU20240139




Scale = 1:55.1

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.15 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 185/148 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.06 | Vert(CT) | n/a | - | n/a | 999 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.20 | Horz(CT) | 0.00 | 16 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-SH | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 131 lb | FT = 10% |

**LUMBER**
TOP CHORD 2x4 HF No.2
BOT CHORD 2x4 HF No.2
OTHERS 2x4 HF No.2

**BRACING**
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (size) 2=28-10-0, 16=28-10-0, 18=28-10-0, 19=28-10-0, 20=28-10-0, 21=28-10-0, 22=28-10-0, 23=28-10-0, 25=28-10-0, 26=28-10-0, 27=28-10-0, 28=28-10-0, 29=28-10-0, 30=28-10-0, 31=28-10-0
Max Horiz 2=87 (LC 14)
Max Uplift 2=-8 (LC 10), 18=-4 (LC 15), 19=-5 (LC 15), 20=-5 (LC 15), 21=-5 (LC 15), 22=-6 (LC 15), 23=-5 (LC 15), 26=-25 (LC 14), 27=-26 (LC 14), 28=-25 (LC 14), 29=-25 (LC 14), 30=-25 (LC 14), 31=-27 (LC 14)
Max Grav 2=216 (LC 20), 16=218 (LC 20), 18=252 (LC 1), 19=211 (LC 22), 20=222 (LC 1), 21=243 (LC 22), 22=296 (LC 22), 23=311 (LC 22), 25=190 (LC 27), 26=292 (LC 21), 27=276 (LC 21), 28=223 (LC 21), 29=202 (LC 1), 30=192 (LC 21), 31=230 (LC 1)

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

TOP CHORD 1-2=0/55, 2-3=-112/53, 3-4=-89/54, 4-5=-72/64, 5-6=-59/78, 6-7=-61/94, 7-8=-71/127, 8-9=-89/159, 9-10=-93/159, 10-11=-75/132, 11-12=-65/99, 12-13=-56/66, 13-14=-56/36, 14-15=-66/28, 15-16=-86/38, 16-17=0/55
BOT CHORD 2-31=-42/92, 30-31=-42/92, 29-30=-42/92, 28-29=-42/92, 27-28=-42/92, 26-27=-42/92, 25-26=-42/92, 23-25=-42/92, 22-23=-42/92, 21-22=-42/92, 20-21=-42/92, 19-20=-42/92, 18-19=-42/92, 16-18=-42/92
WEBS 9-25=-150/26, 8-26=-252/53, 7-27=-236/58, 6-28=-184/55, 5-29=-161/57, 4-30=-155/54, 3-31=-180/73, 10-23=-271/35, 11-22=-256/37, 12-21=-204/35, 13-20=-181/36, 14-19=-175/35, 15-18=-202/51

**NOTES**
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -1-0-0 to 2-0-0, Exterior(2N) 2-0-0 to 14-5-0, Corner(3R) 14-5-0 to 17-5-0, Exterior(2N) 17-5-0 to 29-10-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 18.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
6) All plates are 2x4 MT20 unless otherwise indicated.
7) Gable requires continuous bottom chord bearing.
8) Gable studs spaced at 2-0-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
11) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 8 lb uplift at joint 2, 25 lb uplift at joint 26, 26 lb uplift at joint 27, 25 lb uplift at joint 28, 25 lb uplift at joint 29, 25 lb uplift at joint 30, 27 lb uplift at joint 31, 5 lb uplift at joint 23, 6 lb uplift at joint 22, 5 lb uplift at joint 21, 5 lb uplift at joint 20, 5 lb uplift at joint 19 and 4 lb uplift at joint 18.


February 22,2024

Continued on page 2



MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

13) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
14) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

**LOAD CASE(S)** Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (lb/ft)
   Vert: 1-9=-80, 9-34=-80, 34-37=-90, 17-37=-80, 2-16=-20



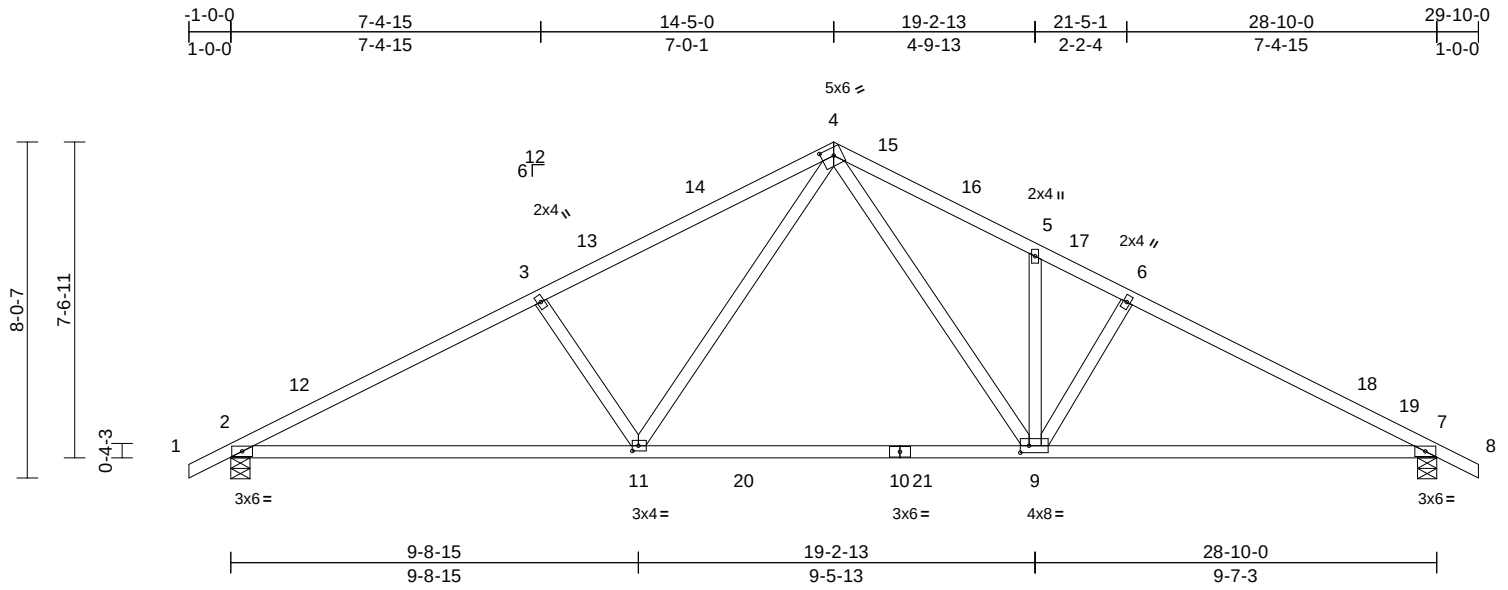

MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934078 |
|---|---|---|---|---|---|
| 3871615 | C02 | Common | 7 | 1 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:13:09 Page: 1
ID:Fauzrl_LuNd1vFC?L?NlyrzjZC7-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

PRMU20240139




Scale = 1:55.1

Plate Offsets (X, Y): [4:0-3-8,0-2-4], [9:0-2-8,0-2-0], [11:0-1-12,0-1-8]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.95 | Vert(LL) | -0.25 | 9-11 | >999 | 240 | MT20 | 185/148 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.88 | Vert(CT) | -0.45 | 7-9 | >753 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.25 | Horz(CT) | 0.08 | 7 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-SH | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 121 lb | FT = 10% |

**LUMBER**
TOP CHORD 2x4 DF 1800F 1.6E
BOT CHORD 2x4 DF 1800F 1.6E
WEBS 2x4 HF No.2

**BRACING**
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (size) 2=0-5-8, 7=0-5-8
Max Horiz 2=-87 (LC 19)
Max Uplift 2=-20 (LC 14)
Max Grav 2=1603 (LC 3), 7=1666 (LC 4)

**FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/56, 2-3=-2666/16, 3-4=-2410/29, 4-5=-2508/2, 5-6=-2476/0, 6-7=-2734/0, 7-8=0/56
BOT CHORD 2-11=-26/2311, 9-11=0/1529, 7-9=0/2349
WEBS 4-9=0/1212, 6-9=-478/66, 4-11=-35/1001, 3-11=-641/171, 5-9=-349/42

**NOTES**
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 14-5-0, Exterior(2R) 14-5-0 to 17-5-0, Interior (1) 17-5-0 to 29-10-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 18.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 20 lb uplift at joint 2.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

**LOAD CASE(S)** Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-4=-80, 4-15=-80, 15-19=-90, 8-19=-80, 2-7=-20


February 22,2024

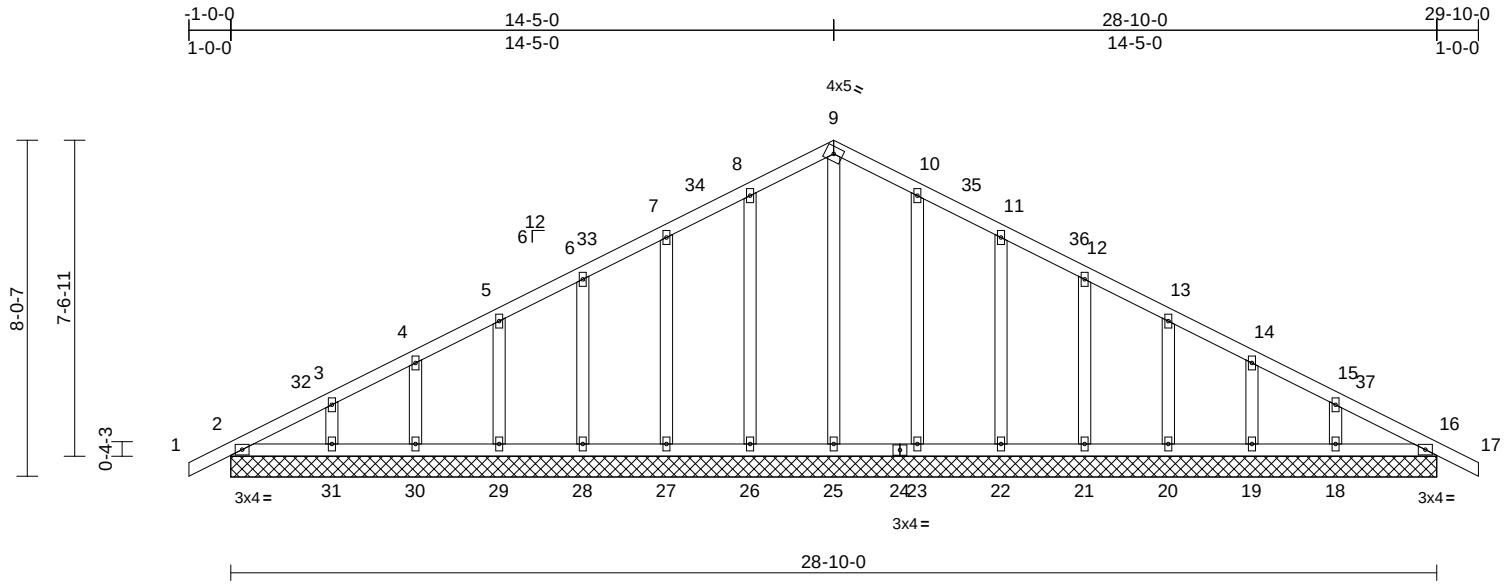



MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934079 |
|---|---|---|---|---|---|
| 3871615 | C03 | Common Supported Gable | 2 | 1 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:13:09 Page: 1
ID:3f8XqYESVKpqTjS4j_GCRmzjZD5-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f PRMU20240139




Scale = 1:55.1

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.13 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 185/148 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.06 | Vert(CT) | n/a | - | n/a | 999 | | |
| TCDL | 15.0 | Rep Stress Incr | YES | WB | 0.19 | Horz(CT) | 0.00 | 16 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-SH | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 131 lb | FT = 10% |

**LUMBER**
TOP CHORD 2x4 HF No.2
BOT CHORD 2x4 HF No.2
OTHERS 2x4 HF No.2

**BRACING**
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (size) 2=28-10-0, 16=28-10-0, 18=28-10-0, 19=28-10-0, 20=28-10-0, 21=28-10-0, 22=28-10-0, 23=28-10-0, 25=28-10-0, 26=28-10-0, 27=28-10-0, 28=28-10-0, 29=28-10-0, 30=28-10-0, 31=28-10-0
Max Horiz 2=87 (LC 14)
Max Uplift 2=-8 (LC 10), 18=-27 (LC 15), 19=-25 (LC 15), 20=-25 (LC 15), 21=-25 (LC 15), 22=-26 (LC 15), 23=-24 (LC 15), 26=-25 (LC 14), 27=-26 (LC 14), 28=-25 (LC 14), 29=-25 (LC 14), 30=-25 (LC 14), 31=-27 (LC 14)
Max Grav 2=216 (LC 20), 16=216 (LC 20), 18=230 (LC 1), 19=192 (LC 22), 20=202 (LC 1), 21=224 (LC 22), 22=276 (LC 22), 23=292 (LC 22), 25=189 (LC 27), 26=292 (LC 21), 27=276 (LC 21), 28=224 (LC 21), 29=202 (LC 1), 30=192 (LC 21), 31=230 (LC 1)

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

TOP CHORD 1-2=0/55, 2-3=-112/54, 3-4=-89/54, 4-5=-71/64, 5-6=-59/78, 6-7=-61/94, 7-8=-71/112, 8-9=-89/127, 9-10=-89/122, 10-11=-71/96, 11-12=-61/72, 12-13=-51/49, 13-14=-51/32, 14-15=-61/24, 15-16=-84/33, 16-17=0/55
BOT CHORD 2-31=-42/82, 30-31=-42/82, 29-30=-42/82, 28-29=-42/82, 27-28=-42/82, 26-27=-42/82, 25-26=-42/82, 23-25=-42/82, 22-23=-42/82, 21-22=-42/82, 20-21=-42/82, 19-20=-42/82, 18-19=-42/82, 16-18=-42/82
WEBS 9-25=-149/27, 8-26=-252/53, 7-27=-236/50, 6-28=-184/49, 5-29=-161/49, 4-30=-155/48, 3-31=-180/54, 10-23=-252/53, 11-22=-236/50, 12-21=-184/48, 13-20=-161/49, 14-19=-155/48, 15-18=-180/54

**NOTES**
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 14-5-0, Exterior(2R) 14-5-0 to 17-5-0, Interior (1) 17-5-0 to 29-10-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 18.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
6) All plates are 2x4 MT20 unless otherwise indicated.
7) Gable requires continuous bottom chord bearing.
8) Gable studs spaced at 2-0-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
11) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 8 lb uplift at joint 2, 25 lb uplift at joint 26, 26 lb uplift at joint 27, 25 lb uplift at joint 28, 25 lb uplift at joint 29, 25 lb uplift at joint 30, 27 lb uplift at joint 31, 24 lb uplift at joint 23, 26 lb uplift at joint 22, 25 lb uplift at joint 21, 25 lb uplift at joint 20, 25 lb uplift at joint 19 and 27 lb uplift at joint 18.


February 22,2024

Continued on page 2



MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

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

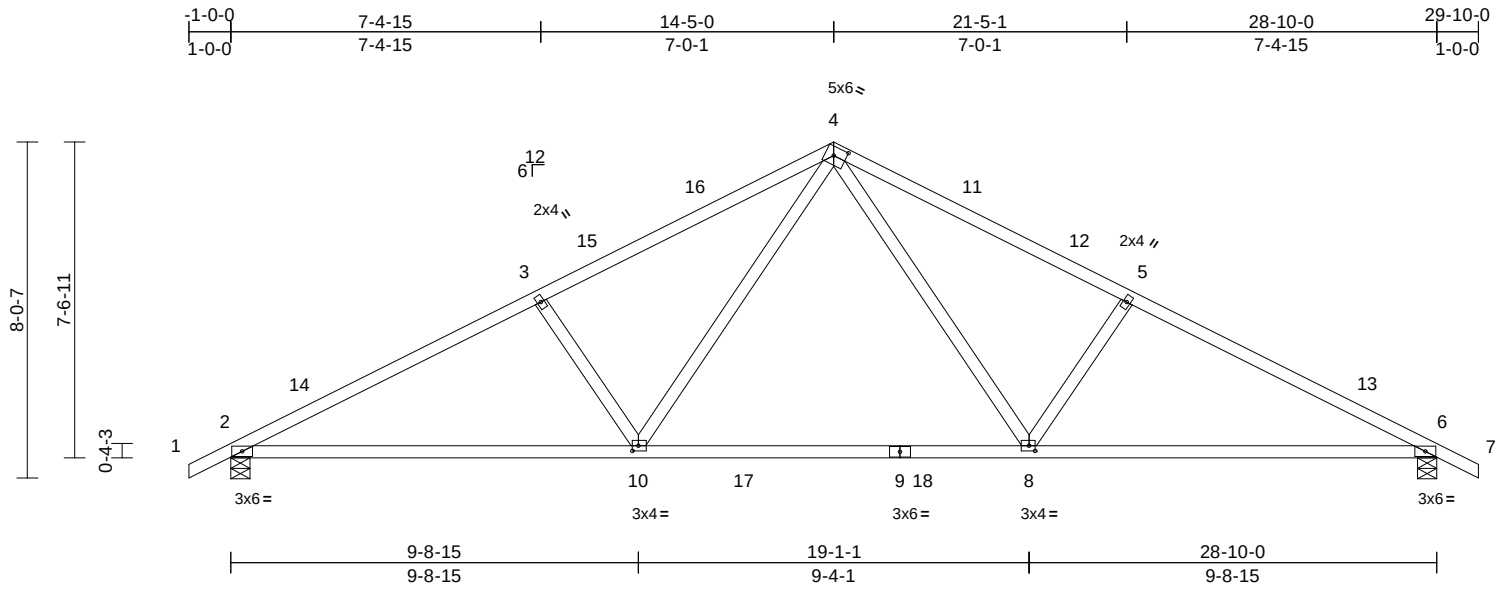
**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934080 |
|---|---|---|---|---|---|
| 3871615 | C04 | Common | 7 | 1 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:13:11 Page: 1
ID:T9jyBKShoMd3Ak_aPqczI3zjZE6-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

PRMU20240139




Scale = 1:55.1

Plate Offsets (X, Y): [4:0-3-8,0-2-8], [8:0-1-12,0-1-8], [10:0-1-12,0-1-8]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.80 | Vert(LL) | -0.24 | 8-10 | >999 | 240 | MT20 | 185/148 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.76 | Vert(CT) | -0.44 | 6-8 | >781 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | YES | WB | 0.24 | Horz(CT) | 0.08 | 6 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-SH | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 115 lb | FT = 10% |

**LUMBER**
TOP CHORD 2x4 DF 1800F 1.6E
BOT CHORD 2x4 DF 1800F 1.6E
WEBS 2x4 HF No.2

**BRACING**
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (size) 2=0-5-8, 6=0-5-8
Max Horiz 2=87 (LC 14)
Max Uplift 2=-50 (LC 14), 6=-50 (LC 15)
Max Grav 2=1572 (LC 3), 6=1572 (LC 4)

**FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 4-5=-2343/95, 5-6=-2600/81, 6-7=0/56, 1-2=0/56, 2-3=-2600/81, 3-4=-2343/95
BOT CHORD 2-10=-84/2252, 8-10=0/1471, 6-8=-11/2252
WEBS 4-10=-34/1001, 3-10=-645/168, 4-8=-34/1001, 5-8=-645/168

**NOTES**
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 14-5-0, Exterior(2R) 14-5-0 to 17-5-0, Interior (1) 17-5-0 to 29-10-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 18.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 50 lb uplift at joint 2 and 50 lb uplift at joint 6.
9) 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


February 22,2024



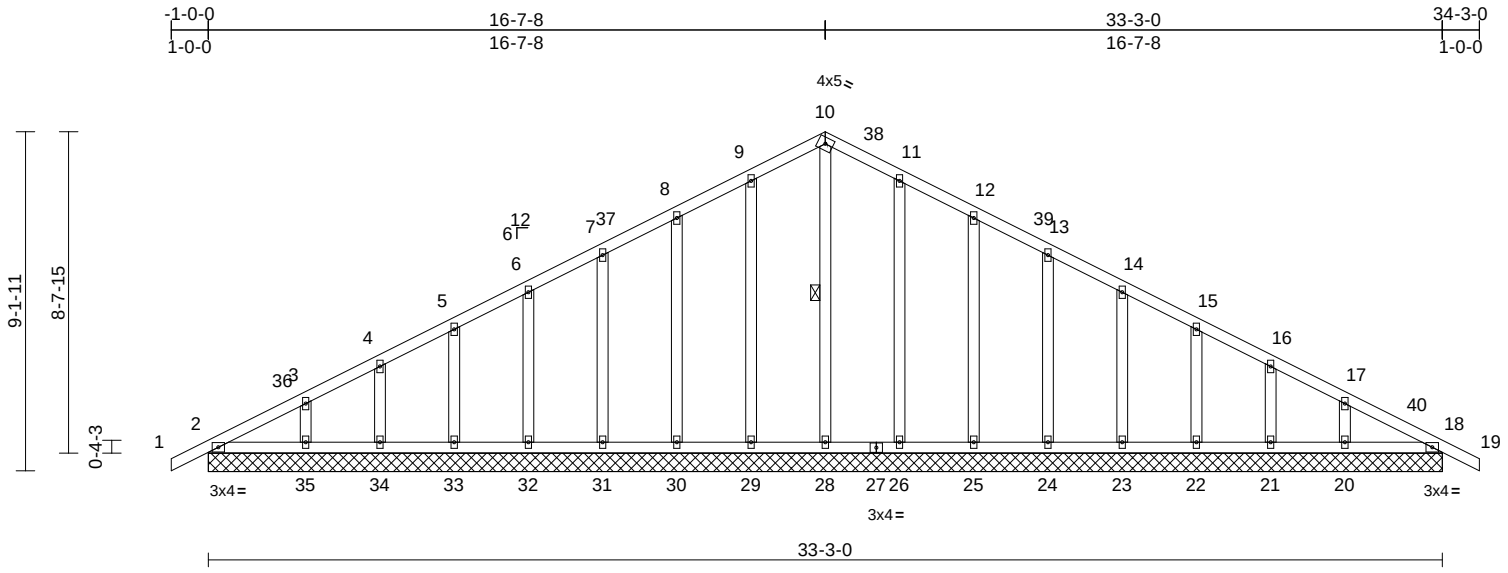
MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934081 |
|---|---|---|---|---|---|
| 3871615 | D01 | Common Supported Gable | 2 | 1 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:13:12 Page: 1
ID:oefiSARg4lCEmRD0l8WMgezjZ8y-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

PRMU20240139




Scale = 1:62.1

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.13 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 185/148 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.06 | Vert(CT) | n/a | - | n/a | 999 | | |
| TCDL | 15.0 | Rep Stress Incr | YES | WB | 0.28 | Horz(CT) | 0.01 | 18 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-SH | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 162 lb | FT = 10% |

**LUMBER**
TOP CHORD 2x4 HF No.2
BOT CHORD 2x4 HF No.2
OTHERS 2x4 HF No.2

**BRACING**
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 10-28

**REACTIONS** (size) 2=33-3-0, 18=33-3-0, 20=33-3-0, 21=33-3-0, 22=33-3-0, 23=33-3-0, 24=33-3-0, 25=33-3-0, 26=33-3-0, 28=33-3-0, 29=33-3-0, 30=33-3-0, 31=33-3-0, 32=33-3-0, 33=33-3-0, 34=33-3-0, 35=33-3-0
Max Horiz 2=100 (LC 14)
Max Uplift 2=-8 (LC 15), 20=-5 (LC 15), 21=-5 (LC 15), 22=-5 (LC 15), 23=-5 (LC 15), 24=-5 (LC 15), 25=-6 (LC 15), 26=-4 (LC 15), 29=-24 (LC 14), 30=-26 (LC 14), 31=-25 (LC 14), 32=-25 (LC 14), 33=-25 (LC 14), 34=-24 (LC 14), 35=-30 (LC 14)
Max Grav 2=218 (LC 20), 18=221 (LC 20), 20=272 (LC 22), 21=203 (LC 1), 22=225 (LC 22), 23=219 (LC 1), 24=244 (LC 22), 25=296 (LC 22), 26=310 (LC 22), 28=198 (LC 27), 29=292 (LC 21), 30=276 (LC 21), 31=224 (LC 21), 32=199 (LC 1), 33=205 (LC 21), 34=185 (LC 1), 35=248 (LC 21)

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

TOP CHORD 1-2=0/55, 2-3=-126/60, 3-4=-100/59, 4-5=-81/69, 5-6=-66/80, 6-7=-58/97, 7-8=-65/119, 8-9=-84/153, 9-10=-102/183, 10-11=-106/184, 11-12=-89/157, 12-13=-70/124, 13-14=-56/91, 14-15=-57/59, 15-16=-55/36, 16-17=-73/27, 17-18=-96/44, 18-19=0/55
BOT CHORD 2-35=-48/106, 34-35=-48/106, 33-34=-48/106, 32-33=-48/106, 31-32=-48/106, 30-31=-48/106, 29-30=-48/106, 28-29=-48/106, 26-28=-48/106, 25-26=-48/106, 24-25=-48/106, 23-24=-48/106, 22-23=-48/106, 21-22=-48/106, 20-21=-48/106, 18-20=-48/106
WEBS 10-28=-158/36, 9-29=-252/52, 8-30=-236/58, 7-31=-184/55, 6-32=-159/56, 5-33=-163/57, 4-34=-150/53, 3-35=-193/81, 11-26=-270/33, 12-25=-256/38, 13-24=-204/35, 14-23=-179/36, 15-22=-183/37, 16-21=-169/34, 17-20=-216/63

**NOTES**
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -1-0-0 to 2-3-14, Exterior(2N) 2-3-14 to 16-7-8, Corner(3R) 16-7-8 to 19-11-6, Exterior (2N) 19-11-6 to 34-3-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 18.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
6) All plates are 2x4 MT20 unless otherwise indicated.
7) Gable requires continuous bottom chord bearing.
8) Gable studs spaced at 2-0-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
11) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.


February 22,2024

Continued on page 2



MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 8 lb uplift at joint 2, 24 lb uplift at joint 29, 26 lb uplift at joint 30, 25 lb uplift at joint 31, 25 lb uplift at joint 32, 25 lb uplift at joint 33, 24 lb uplift at joint 34, 30 lb uplift at joint 35, 4 lb uplift at joint 26, 6 lb uplift at joint 25, 5 lb uplift at joint 24, 5 lb uplift at joint 23, 5 lb uplift at joint 22, 5 lb uplift at joint 21 and 5 lb uplift at joint 20.
13) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
14) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

**LOAD CASE(S)** Standard

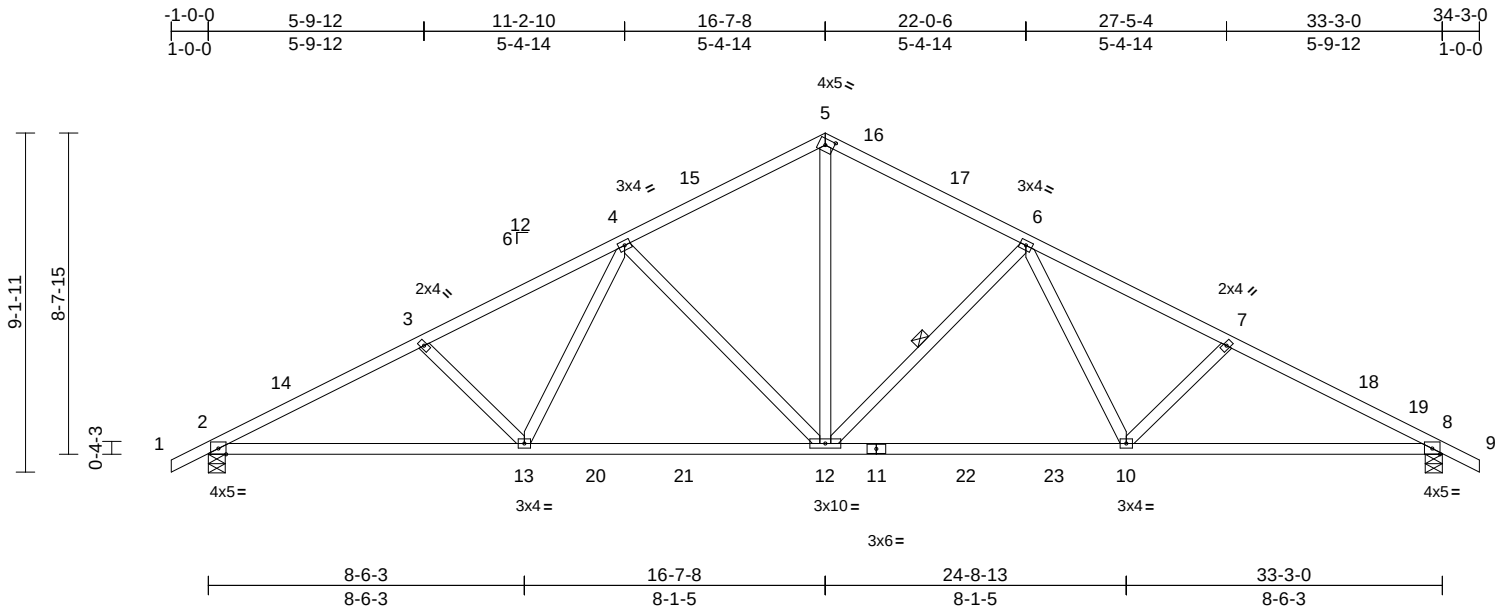
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (lb/ft)
   Vert: 1-10=-80, 10-38=-80, 38-40=-90, 19-40=-80, 2-18=-20

| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934082 |
|---|---|---|---|---|---|
| 3871615 | D02 | Common | 7 | 1 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:13:14 Page: 1

ID:5A?4C7v4SEfUUhsYAuk1uMzjZ9e-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f PRMU20240139




Scale = 1:62.1

Plate Offsets (X, Y): [5:0-2-12,0-2-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.86 | Vert(LL) | -0.22 | 12-13 | >999 | 240 | MT20 | 185/148 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.79 | Vert(CT) | -0.41 | 10-12 | >949 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.99 | Horz(CT) | 0.12 | 8 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-SH | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 141 lb | FT = 10% |

**LUMBER**

TOP CHORD 2x4 HF No.2
BOT CHORD 2x4 DF 1800F 1.6E
WEBS 2x4 HF No.2

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 2-2-1 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 6-12

**REACTIONS** (size) 2=0-5-8, 8=0-5-8
Max Horiz 2=100 (LC 14)
Max Uplift 2=-19 (LC 14)
Max Grav 2=1835 (LC 2), 8=1909 (LC 2)

**FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/56, 2-3=-3217/9, 3-4=-2972/0, 4-5=-2100/29, 5-6=-2114/35, 6-7=-3068/0, 7-8=-3349/0, 8-9=0/56
BOT CHORD 2-13=-49/2796, 12-13=0/2318, 10-12=0/2376, 8-10=0/2906
WEBS 5-12=0/1448, 6-12=-938/45, 6-10=0/656, 7-10=-414/71, 4-12=-855/128, 4-13=0/614, 3-13=-364/121

**NOTES**

1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-0-0 to 2-3-14, Interior (1) 2-3-14 to 16-7-8, Exterior(2R) 16-7-8 to 19-11-6, Interior (1) 19-11-6 to 34-3-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 18.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 19 lb uplift at joint 2.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

**LOAD CASE(S)** Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-5=-80, 5-16=-80, 16-19=-90, 9-19=-80, 2-8=-20


February 22,2024

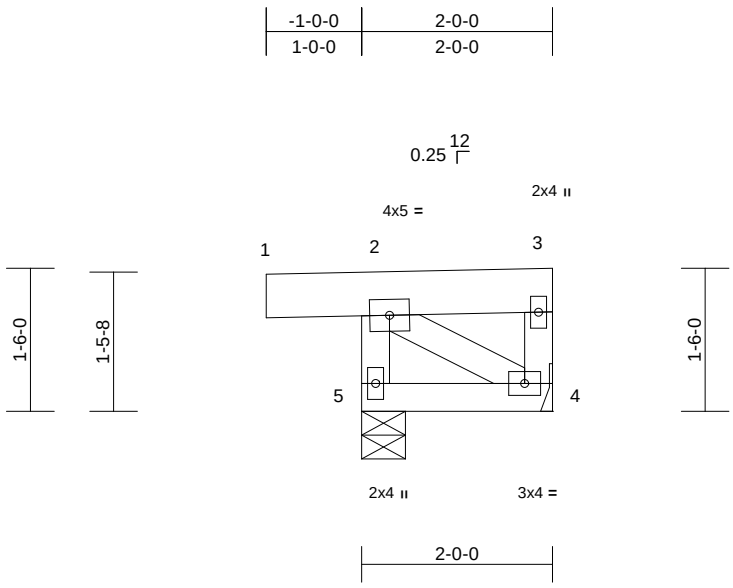



MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934083 |
|---|---|---|---|---|---|
| 3871615 | E01 | Common | 8 | 1 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:13:14 Page: 1
ID:w2w8WhmBx_chHeK1MAL8yPzjEGE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?r PRMU20240139




Scale = 1:24.2

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.07 | Vert(LL) | 0.00 | 4-5 | >999 | 240 | MT20 | 185/148 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.03 | Vert(CT) | 0.00 | 4-5 | >999 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | YES | WB | 0.01 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 12 lb | FT = 10% |

**LUMBER**
TOP CHORD 2x6 DF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x4 HF No.2

**BRACING**
TOP CHORD Structural wood sheathing directly applied or 2-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (size) 4= Mechanical, 5=0-5-8
Max Horiz 5=28 (LC 11)
Max Uplift 4=-7 (LC 18), 5=-53 (LC 8)
Max Grav 4=55 (LC 1), 5=242 (LC 18)

**FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-5=-225/157, 1-2=0/3, 2-3=-15/14, 3-4=-38/31
BOT CHORD 4-5=-38/35
WEBS 2-4=-29/34

**NOTES**
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
3) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 53 lb uplift at joint 5 and 7 lb uplift at joint 4.
10) 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


February 22,2024

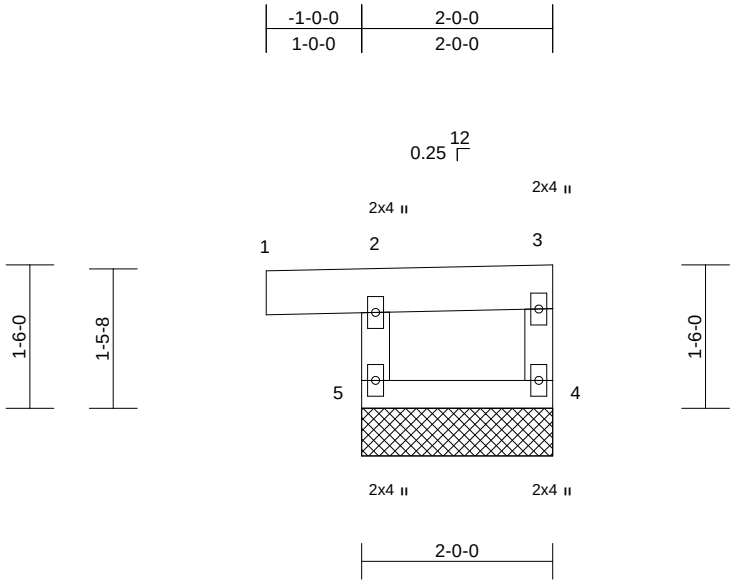


MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934084 |
|---|---|---|---|---|---|
| 3871615 | E02 | Common | 2 | 1 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:13:14 Page: 1
ID:W0Is0H8eeWWHVPC_hAPQjyzjEFI-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f PRMU20240139




Scale = 1:24.1

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.07 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 185/148 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.02 | Vert(CT) | n/a | - | n/a | 999 | | |
| TCDL | 15.0 | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-R | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 10 lb | FT = 10% |

**LUMBER**
TOP CHORD 2x6 DF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x4 HF No.2

**BRACING**
TOP CHORD Structural wood sheathing directly applied or 2-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

**REACTIONS** (size) 4=2-0-0, 5=2-0-0
Max Horiz 5=28 (LC 11)
Max Uplift 4=-7 (LC 18), 5=-53 (LC 8)
Max Grav 4=55 (LC 1), 5=242 (LC 18)

**FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-5=-223/151, 1-2=0/3, 2-3=-7/5, 3-4=-39/43
BOT CHORD 4-5=-24/31

**NOTES**
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
4) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) Gable requires continuous bottom chord bearing.
7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
8) Gable studs spaced at 2-0-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
11) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 53 lb uplift at joint 5 and 7 lb uplift at joint 4.
13) 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


February 22,2024

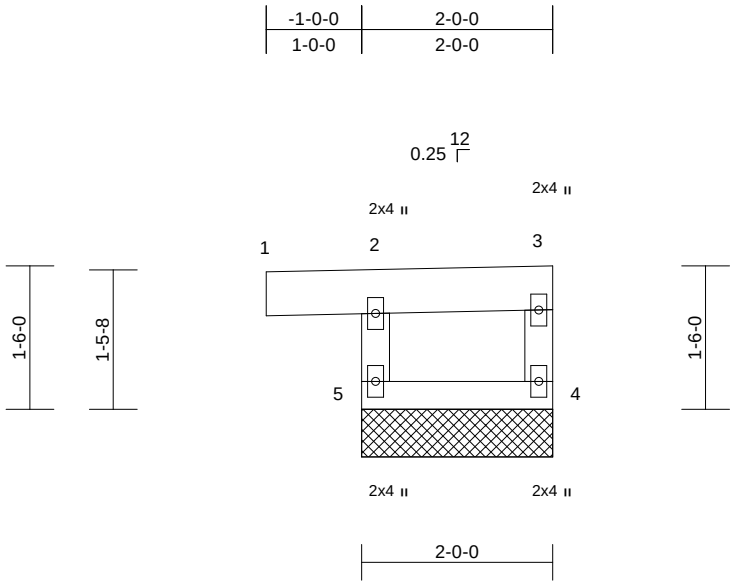


MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934085 |
|---|---|---|---|---|---|
| 3871615 | E03 | Common | 4 | 1 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:13:15 Page: 1
ID:E00LOy4ZGUKDsO9_FZoitOzjEEX-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f PRMU20240139




Scale = 1:24.1

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.07 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 185/148 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.02 | Vert(CT) | n/a | - | n/a | 999 | | |
| TCDL | 15.0 | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-R | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 10 lb | FT = 10% |

**LUMBER**
TOP CHORD 2x6 DF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x4 HF No.2

**BRACING**
TOP CHORD Structural wood sheathing directly applied or 2-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

**REACTIONS** (size) 4=2-0-0, 5=2-0-0
Max Horiz 5=28 (LC 9)
Max Uplift 4=-7 (LC 18), 5=-53 (LC 8)
Max Grav 4=55 (LC 1), 5=242 (LC 18)

**FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-5=-223/151, 1-2=0/3, 2-3=-7/5, 3-4=-39/43
BOT CHORD 4-5=-24/31

**NOTES**
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
4) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) Gable requires continuous bottom chord bearing.
7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
8) Gable studs spaced at 2-0-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
11) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 53 lb uplift at joint 5 and 7 lb uplift at joint 4.
13) 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


February 22,2024



MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

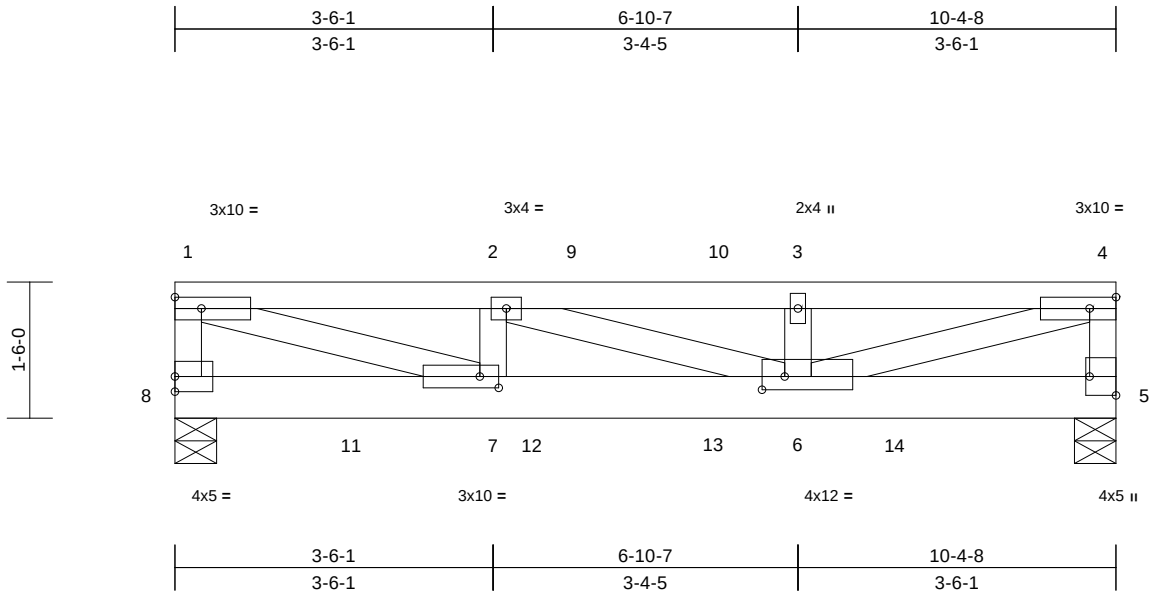
| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING |
|---|---|---|---|---|---|
| 3871615 | G01 | Flat Girder | 1 | 3 | R80934086 |
| | | | | | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:13:15 Page: 1

ID:MCcfsgkky9kN_KQpYnOEufzjDoa-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

PRMU20240139




Scale = 1:25.4

Plate Offsets (X, Y): [5:Edge,0-3-8], [6:0-3-0,0-1-12], [7:0-2-8,0-1-8]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.47 | Vert(LL) | -0.10 | 6-7 | >999 | 240 | MT20 | 185/148 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.48 | Vert(CT) | -0.20 | 6-7 | >606 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.72 | Horz(CT) | 0.01 | 5 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-SH | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 146 lb | FT = 10% |

**LUMBER**

TOP CHORD 2x4 HF No.2
BOT CHORD 2x6 DF 2400F 2.0E
WEBS 2x4 HF No.2

**BRACING**

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

**REACTIONS** (size) 5=0-5-8, 8=0-5-8
Max Horiz 8=-28 (LC 8)
Max Uplift 5=-622 (LC 9), 8=-677 (LC 8)
Max Grav 5=4493 (LC 1), 8=4812 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-8=-3769/954, 1-2=-10448/2412, 2-3=-9931/2300, 3-4=-9931/2300, 4-5=-3618/920
BOT CHORD 7-8=-213/715, 6-7=-2432/10448, 5-6=-189/694
WEBS 4-6=-2239/9741, 2-7=-773/534, 1-7=-2355/10264, 2-6=-545/126, 3-6=-846/474

**NOTES**

1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-4-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
4) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
8) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 677 lb uplift at joint 8 and 622 lb uplift at joint 5.
10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1573 lb down and 268 lb up at 1-11-4, 38 lb down and 14 lb up at 1-11-4, 1573 lb down and 268 lb up at 3-11-4, 38 lb down and 14 lb up at 3-11-4, 1573 lb down and 268 lb up at 5-11-4, 38 lb down and 14 lb up at 5-11-4, and 1573 lb down and 268 lb up at 7-11-4, and 38 lb down and 14 lb up at 7-11-4 on bottom chord. The design/ selection of such connection device(s) is the responsibility of others.

**LOAD CASE(S)** Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-4=-264, 5-8=-20
Concentrated Loads (lb)
Vert: 11=-1610 (F=-1573, B=-38), 12=-1610 (F=-1573, B=-38), 13=-1610 (F=-1573, B=-38), 14=-1610 (F=-1573, B=-38)


February 22,2024




MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

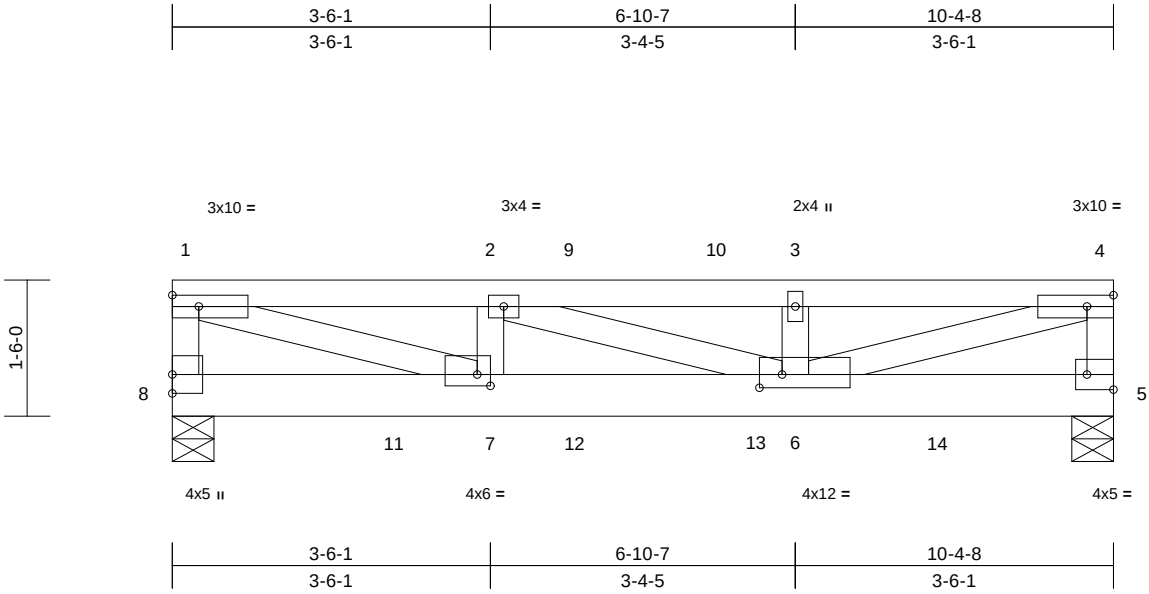
| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934087 |
|---|---|---|---|---|---|
| 3871615 | G02 | Flat Girder | 1 | 3 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:13:18 Page: 1

ID:MCcfsgkky9kN_KQpYnOEufzjDoa-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

PRMU20240139




Scale = 1:25.4

Plate Offsets (X, Y): [5:Edge,0-2-0], [6:0-3-0,0-1-12], [7:0-1-12,0-1-8]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.47 | Vert(LL) | -0.10 | 6-7 | >999 | 240 | MT20 | 185/148 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.46 | Vert(CT) | -0.20 | 6-7 | >606 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.71 | Horz(CT) | 0.01 | 5 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-SH | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 146 lb | FT = 10% |

**LUMBER**

TOP CHORD 2x4 HF No.2
BOT CHORD 2x6 DF 2400F 2.0E
WEBS 2x4 HF No.2

**BRACING**

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

**REACTIONS** (size) 5=0-5-8, 8=0-5-8
Max Horiz 8=-28 (LC 8)
Max Uplift 5=-678 (LC 9), 8=-622 (LC 8)
Max Grav 5=4812 (LC 1), 8=4493 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-8=-3722/945, 1-2=-10274/2382, 2-3=-10101/2330, 3-4=-10101/2330, 4-5=-3663/928
BOT CHORD 7-8=-204/664, 6-7=-2401/10274, 5-6=-198/745
WEBS 4-6=-2260/9866, 2-7=-836/461, 1-7=-2333/10135, 2-6=-183/63, 3-6=-840/482

**NOTES**

1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-4-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
4) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
8) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 622 lb uplift at joint 8 and 678 lb uplift at joint 5.
10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1573 lb down and 268 lb up at 2-5-4, 38 lb down and 14 lb up at 2-5-4, 1573 lb down and 268 lb up at 4-5-4, 38 lb down and 14 lb up at 4-5-4, 1573 lb down and 268 lb up at 6-5-4, 38 lb down and 14 lb up at 6-5-4, and 1573 lb down and 268 lb up at 8-5-4, and 38 lb down and 14 lb up at 8-5-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

**LOAD CASE(S)** Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)
Vert: 1-4=-264, 5-8=-20
Concentrated Loads (lb)
Vert: 11=-1610 (F=-1573, B=-38), 12=-1610 (F=-1573, B=-38), 13=-1610 (F=-1573, B=-38), 14=-1610 (F=-1573, B=-38)


February 22,2024



MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

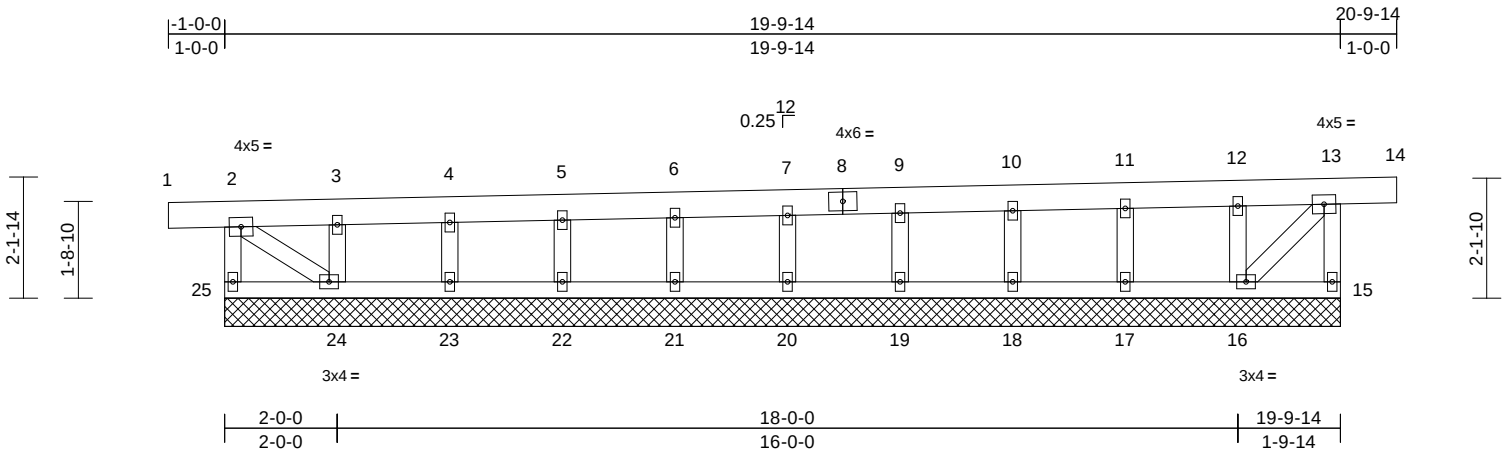
| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934088 |
|---|---|---|---|---|---|
| 3871615 | M01 | Monopitch Supported Gable | 2 | 1 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:13:18 Page: 1

ID:BlzaClLlf5P?s?dEX1VUR?zjHSm-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

PRMU20240139




Scale = 1:40.9

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.07 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 185/148 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.03 | Vert(CT) | n/a | - | n/a | 999 | | |
| TCDL | 15.0 | Rep Stress Incr | YES | WB | 0.02 | Horz(CT) | 0.00 | 15 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-SH | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 89 lb | FT = 10% |

**LUMBER**

TOP CHORD 2x6 DF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x4 HF No.2
OTHERS 2x4 HF No.2

**BRACING**

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

**REACTIONS** (size) 15=19-9-14, 16=19-9-14, 17=19-9-14, 18=19-9-14, 19=19-9-14, 20=19-9-14, 21=19-9-14, 22=19-9-14, 23=19-9-14, 24=19-9-14, 25=19-9-14
Max Horiz 25=44 (LC 9)
Max Uplift 15=-26 (LC 12), 16=-5 (LC 8), 17=-13 (LC 8), 18=-12 (LC 8), 19=-12 (LC 12), 20=-12 (LC 12), 21=-12 (LC 8), 22=-12 (LC 12), 23=-14 (LC 8), 24=-5 (LC 9), 25=-51 (LC 8)
Max Grav 15=219 (LC 18), 16=176 (LC 1), 17=206 (LC 1), 18=199 (LC 1), 19=200 (LC 1), 20=200 (LC 1), 21=200 (LC 1), 22=199 (LC 1), 23=204 (LC 1), 24=185 (LC 1), 25=225 (LC 18)

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

TOP CHORD 2-25=-210/88, 1-2=0/3, 2-3=-34/29, 3-4=-32/29, 4-5=-30/29, 5-6=-28/29, 6-7=-26/28, 7-9=-24/28, 9-10=-22/28, 10-11=-20/27, 11-12=-18/27, 12-13=-17/27, 13-14=-3/0, 13-15=-206/79
BOT CHORD 24-25=-71/65, 23-24=-28/30, 22-23=-28/30, 21-22=-28/30, 20-21=-28/30, 19-20=-28/30, 18-19=-28/30, 17-18=-28/30, 16-17=-28/30, 15-16=-20/28
WEBS 3-24=-134/68, 4-23=-165/78, 5-22=-159/75, 6-21=-160/76, 7-20=-160/76, 9-19=-160/76, 10-18=-159/75, 11-17=-166/78, 12-16=-123/63, 2-24=-57/68, 13-16=-20/2

**NOTES**

1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
4) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) All plates are 2x4 MT20 unless otherwise indicated.
7) Gable requires continuous bottom chord bearing.
8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
9) Gable studs spaced at 2-0-0 oc.
10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
11) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
12) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 51 lb uplift at joint 25, 26 lb uplift at joint 15, 5 lb uplift at joint 24, 14 lb uplift at joint 23, 12 lb uplift at joint 22, 12 lb uplift at joint 21, 12 lb uplift at joint 20, 12 lb uplift at joint 19, 12 lb uplift at joint 18, 13 lb uplift at joint 17 and 5 lb uplift at joint 16.
14) 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


February 22,2024



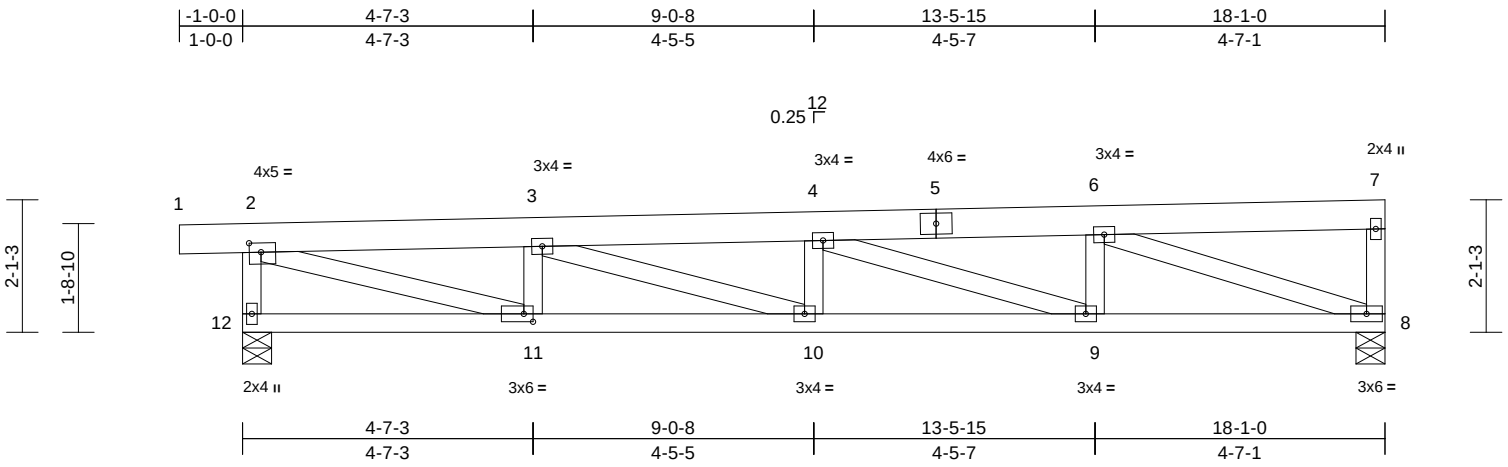
MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934089 |
|---|---|---|---|---|---|
| 3871615 | M02 | Monopitch | 2 | 1 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:13:18 Page: 1
ID:UHJxziph0ZsFaEGnyojAejzjHTS-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

PRMU20240139




Scale = 1:36.5

Plate Offsets (X, Y): [2:0-2-4,0-1-12], [11:0-1-12,0-1-8]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.21 | Vert(LL) | -0.11 | 10-11 | >999 | 240 | MT20 | 185/148 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.58 | Vert(CT) | -0.23 | 10-11 | >945 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | YES | WB | 0.78 | Horz(CT) | 0.05 | 8 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-SH | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 89 lb | FT = 10% |

**LUMBER**
TOP CHORD 2x6 DF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x4 HF No.2

**BRACING**
TOP CHORD Structural wood sheathing directly applied or 4-7-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-7-5 oc bracing.

**REACTIONS** (size) 8=0-5-8, 12=0-5-8
Max Horiz 12=43 (LC 9)
Max Uplift 8=-51 (LC 12), 12=-84 (LC 8)
Max Grav 8=887 (LC 1), 12=984 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-12=-931/303, 1-2=0/3, 2-3=-2034/560, 3-4=-2575/712, 4-6=-1858/524, 6-7=-64/34, 7-8=-179/81
BOT CHORD 11-12=-88/117, 10-11=-604/2029, 9-10=-742/2572, 8-9=-536/1855
WEBS 2-11=-563/2013, 6-8=-1913/543, 3-11=-505/226, 3-10=-162/570, 4-10=-86/100, 4-9=-758/219, 6-9=-9/360

**NOTES**
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
3) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 84 lb uplift at joint 12 and 51 lb uplift at joint 8.
9) 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


February 22,2024



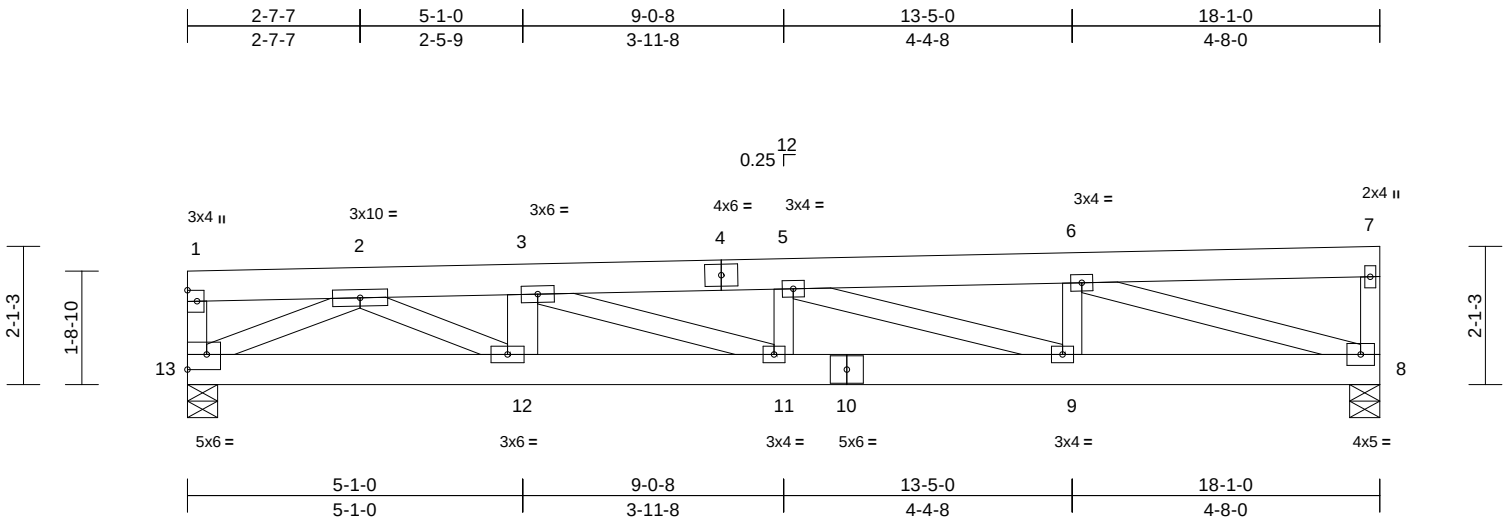
MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934090 |
|---|---|---|---|---|---|
| 3871615 | M03 | Monopitch Girder | 1 | 2 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:13:20 Page: 1
ID:4U7L1PEVLOFGsn_TrDmABSzjGpc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?

PRMU20240139




Scale = 1:34.9

Plate Offsets (X, Y): [13:Edge,0-2-12]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.43 | Vert(LL) | -0.12 | 11-12 | >999 | 240 | MT20 | 185/148 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.83 | Vert(CT) | -0.23 | 11-12 | >909 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.47 | Horz(CT) | 0.05 | 8 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-SH | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 207 lb | FT = 10% |

**LUMBER**
TOP CHORD 2x6 DF No.2
BOT CHORD 2x6 DF No.2
WEBS 2x4 HF No.2 *Except* 12-3:2x6 DF No.2

**BRACING**
TOP CHORD Structural wood sheathing directly applied or 5-2-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (size) 8=0-5-8, 13=0-5-8
Max Horiz 13=41 (LC 11)
Max Uplift 8=-59 (LC 12), 13=-200 (LC 8)
Max Grav 8=1589 (LC 1), 13=4899 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-13=-1240/358, 1-2=-341/94, 2-3=-8509/1871, 3-5=-6852/1570, 5-6=-3940/944, 6-7=-136/53, 7-8=-197/86
BOT CHORD 12-13=-1717/6865, 11-12=-1906/8481, 9-11=-1599/6848, 8-9=-955/3937
WEBS 5-11=-81/762, 5-9=-3066/679, 6-9=-137/1007, 6-8=-4019/959, 3-12=-645/324, 3-11=-1826/325, 2-12=-224/1832, 2-13=-7421/1812

**NOTES**
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-4-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
4) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
8) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 200 lb uplift at joint 13 and 59 lb uplift at joint 8.
10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 334 lb down at 5-3-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

**LOAD CASE(S)** Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-3=-966, 3-7=-80, 8-13=-20
Concentrated Loads (lb)
Vert: 12=-334 (B)


February 22,2024



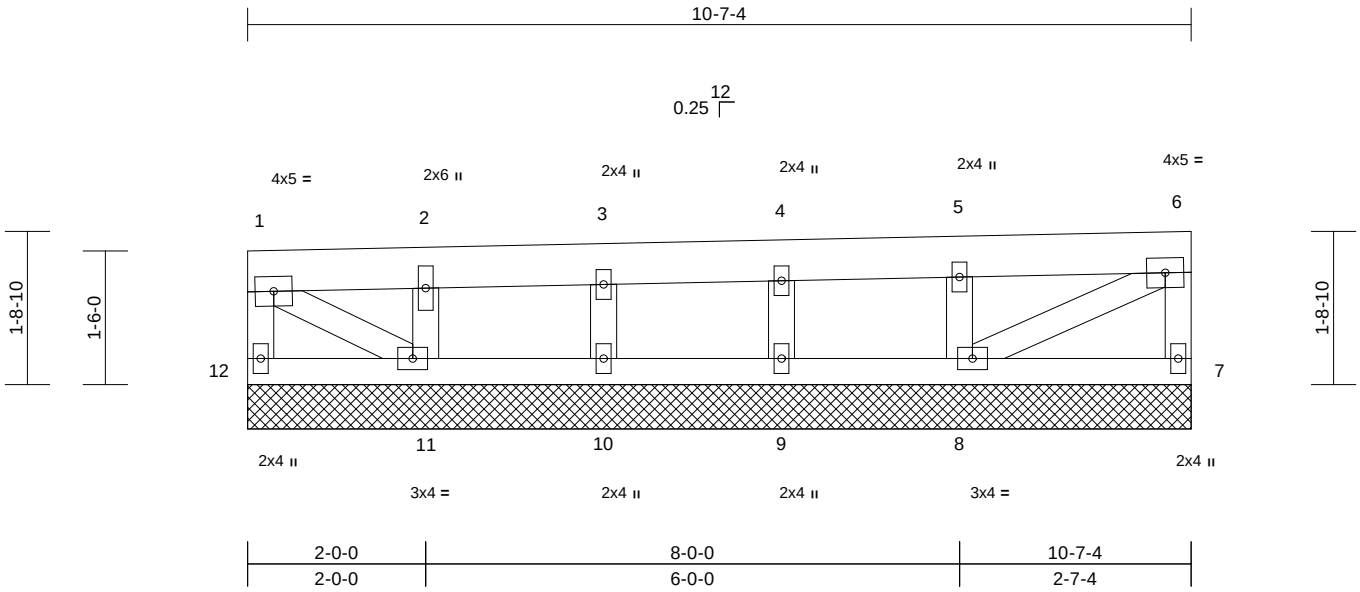
MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934091 |
|---|---|---|---|---|---|
| 3871615 | M03A | Monopitch Supported Gable | 1 | **2** | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:13:23 Page: 1

ID:OZPgr7VYYx0OWcVMEAyzHHzjGZm-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC? PRMU20240139




Scale = 1:25.9

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.23 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 185/148 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.02 | Vert(TL) | n/a | - | n/a | 999 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.14 | Horiz(TL) | 0.00 | 8 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-SH | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 92 lb | FT = 10% |

**LUMBER**

| | |
|---|---|
| TOP CHORD | 2x6 DF No.2 |
| BOT CHORD | 2x4 HF No.2 |
| WEBS | 2x4 HF No.2 |
| OTHERS | 2x4 HF No.2 |

**BRACING**

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

**REACTIONS** (size) 7=10-7-4, 8=10-7-4, 9=10-7-4, 10=10-7-4, 11=10-7-4, 12=10-7-4
Max Horiz 12=33 (LC 11)
Max Uplift 7=-57 (LC 12), 8=-150 (LC 8), 9=-108 (LC 8), 10=-117 (LC 8), 11=-120 (LC 12), 12=-46 (LC 8)
Max Grav 7=982 (LC 1), 8=2538 (LC 1), 9=1843 (LC 1), 10=1990 (LC 1), 11=2110 (LC 1), 12=705 (LC 1)

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

| | |
|---|---|
| TOP CHORD | 1-12=-686/285, 1-2=-40/65, 2-3=-36/63, 3-4=-34/62, 4-5=-33/65, 5-6=-27/60, 6-7=-955/386 |
| BOT CHORD | 11-12=-70/87, 10-11=-49/41, 9-10=-49/41, 8-9=-49/41, 7-8=-36/75 |
| WEBS | 2-11=-2019/805, 3-10=-1949/777, 4-9=-1804/720, 5-8=-2432/971, 1-11=-115/79, 6-8=-130/52 |

**NOTES**

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
4) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
5) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
6) Provide adequate drainage to prevent water ponding.
7) Gable requires continuous bottom chord bearing.
8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
9) Gable studs spaced at 2-0-0 oc.
10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
11) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
12) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 46 lb uplift at joint 12, 57 lb uplift at joint 7, 120 lb uplift at joint 11, 117 lb uplift at joint 10, 108 lb uplift at joint 9 and 150 lb uplift at joint 8.
14) 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
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-6=-966, 7-12=-20


February 22,2024

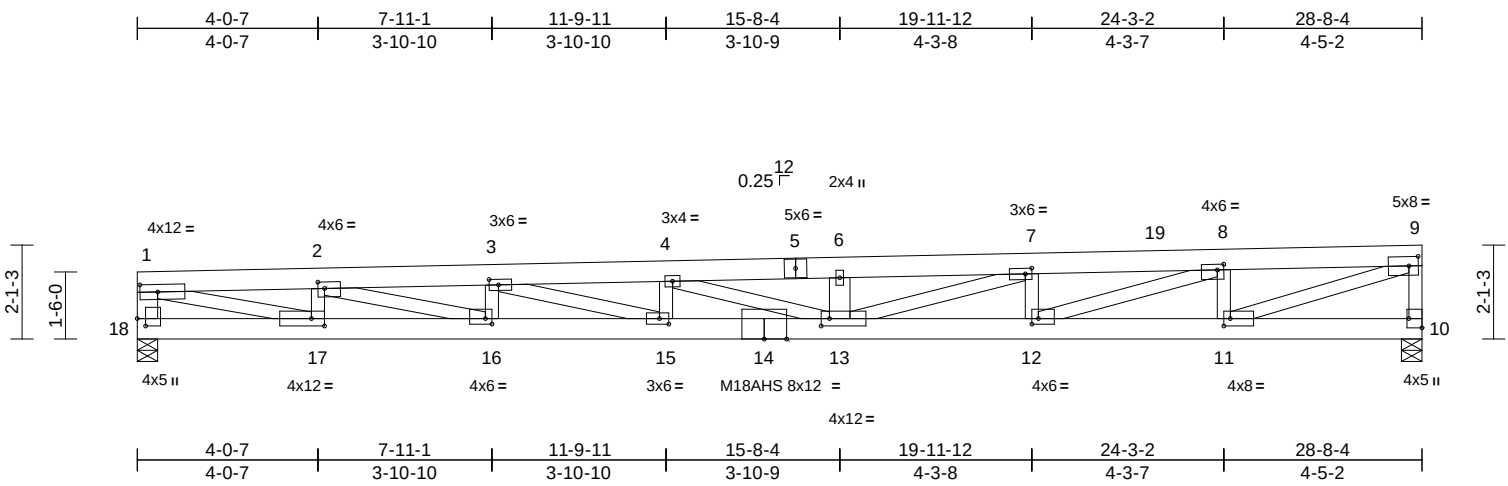



MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934092 |
|---|---|---|---|---|---|
| 3871615 | M04 | Monopitch Girder | 7 | 1 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:13:24 Page: 1
ID:dX_Q3rFfUwh6huC5ALw?BVzjHY3-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f PRMU20240139




Scale = 1:51.4

Plate Offsets (X, Y): [1:0-4-12,0-2-0], [2:0-1-12,0-1-12], [3:0-2-8,0-1-8], [7:0-1-12,0-1-8], [8:0-1-12,0-1-8], [9:0-2-8,0-2-8], [10:Edge,0-3-8], [11:0-1-12,0-2-0], [12:0-1-12,0-1-8], [13:0-2-4,0-2-0], [15:0-2-8,0-1-8], [16:0-1-12,0-1-8], [17:0-3-8,0-2-0], [18:0-2-0,0-2-4]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.85 | Vert(LL) | -0.62 | 13-15 | >547 | 240 | MT20 | 220/195 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.73 | Vert(CT) | -1.23 | 13-15 | >276 | 180 | M18AHS | 169/162 |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.87 | Horz(CT) | 0.10 | 10 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-SH | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 163 lb | FT = 10% |

**LUMBER**
TOP CHORD 2x6 DF No.2
BOT CHORD 2x6 DF 2400F 2.0E
WEBS 2x4 HF No.2 *Except* 18-1,13-6:2x6 DF No.2

**BRACING**
TOP CHORD Structural wood sheathing directly applied or 1-8-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-0-12 oc bracing.

**REACTIONS** (size) 10=0-5-8, 18=0-5-8
Max Horiz 18=38 (LC 29)
Max Uplift 10=-78 (LC 12), 18=-116 (LC 8)
Max Grav 10=1716 (LC 1), 18=1629 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-18=-1443/289, 1-2=-4539/828, 2-3=-7573/1369, 3-4=-9100/1641, 4-6=-9198/1647, 6-7=-9197/1650, 7-8=-7195/1265, 8-9=-4030/671, 9-10=-1617/272
BOT CHORD 17-18=-168/578, 16-17=-877/4532, 15-16=-1415/7568, 13-15=-1675/9095, 12-13=-1274/7191, 11-12=-670/4027, 10-11=-35/142
WEBS 6-13=-263/147, 1-17=-745/4101, 4-13=-147/284, 2-17=-1149/274, 2-16=-570/3161, 3-16=-810/206, 3-15=-281/1599, 4-15=-365/123, 7-13=-421/2115, 9-11=-680/4159, 7-12=-1011/262, 8-12=-642/3364, 8-11=-1447/306

**NOTES**

1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) interior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 116 lb uplift at joint 18 and 78 lb uplift at joint 10.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 226 lb down and 41 lb up at 15-10-4, and 230 lb down and 45 lb up at 15-10-4 on bottom chord. The design/ selection of such connection device(s) is the responsibility of others.
12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-19=-80, 9-19=-90, 10-18=-20
Concentrated Loads (lb)
Vert: 13=-456 (F=-226, B=-230)


February 22,2024

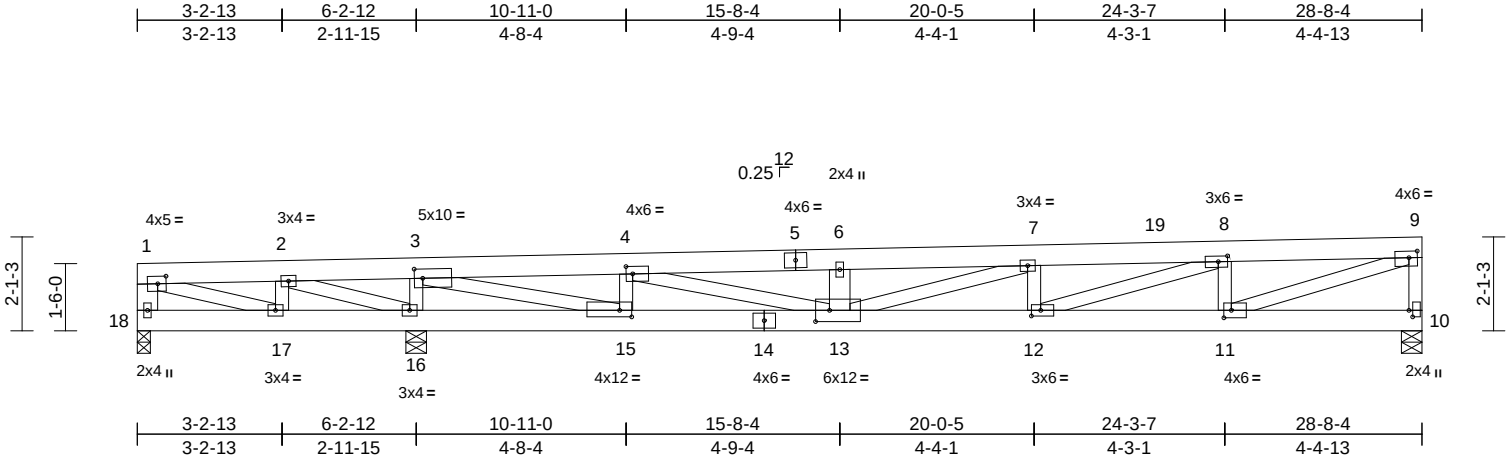



MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934093 |
|---|---|---|---|---|---|
| 3871615 | M05 | Monopitch Girder | 7 | 1 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:13:25 Page: 1
ID:tcXkMckfjgLYFWDHGmgBWOzjGQQ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f PRMU20240139




Scale = 1:51.4

Plate Offsets (X, Y): [1:0-2-4,0-2-0], [3:0-2-4,0-2-8], [4:0-1-12,0-2-0], [8:0-2-8,0-1-8], [9:0-2-4,0-1-12], [10:0-1-12,0-1-0], [11:0-2-0,0-2-0], [12:0-2-8,0-1-8], [13:0-3-12,0-3-0], [15:0-3-4,0-1-12]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.91 | Vert(LL) | -0.24 | 12-13 | >999 | 240 | MT20 | 220/195 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.80 | Vert(CT) | -0.47 | 12-13 | >575 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.90 | Horz(CT) | 0.02 | 10 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-SH | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 163 lb | FT = 10% |

**LUMBER**
TOP CHORD 2x6 DF No.2
BOT CHORD 2x6 DF No.2
WEBS 2x4 HF No.2 *Except* 18-1,13-6:2x6 DF No.2

**BRACING**
TOP CHORD Structural wood sheathing directly applied or 3-4-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-2-10 oc bracing.

**REACTIONS** (size) 10=0-5-8, 16=0-5-8, 18=0-3-8
Max Horiz 18=38 (LC 11)
Max Uplift 10=-37 (LC 12), 16=-193 (LC 12), 18=-381 (LC 1)
Max Grav 10=1176 (LC 1), 16=2549 (LC 1), 18=36 (LC 12)

**FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-18=-53/398, 1-2=-251/1414, 2-3=-473/2583, 3-4=-1592/301, 4-6=-4387/789, 6-7=-4386/792, 7-8=-4100/712, 8-9=-2574/411, 9-10=-1098/178
BOT CHORD 17-18=-104/43, 16-17=-1411/268, 15-16=-2577/469, 13-15=-314/1585, 12-13=-711/4097, 11-12=-405/2570, 10-11=-27/99
WEBS 3-16=-1731/373, 6-13=-330/163, 7-12=-445/157, 7-13=-123/312, 8-12=-326/1624, 8-11=-899/207, 9-11=-405/2647, 2-16=-1243/238, 2-17=-23/360, 1-17=-1399/261, 3-15=-764/4290, 4-15=-1071/267, 4-13=-501/2895

**NOTES**

1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) interior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 381 lb uplift at joint 18, 37 lb uplift at joint 10 and 193 lb uplift at joint 16.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 226 lb down and 41 lb up at 15-10-4, and 230 lb down and 45 lb up at 15-10-4 on bottom chord. The design/ selection of such connection device(s) is the responsibility of others.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-19=-80, 9-19=-90, 10-18=-20
Concentrated Loads (lb)
Vert: 13=-456 (F=-226, B=-230)


February 22,2024

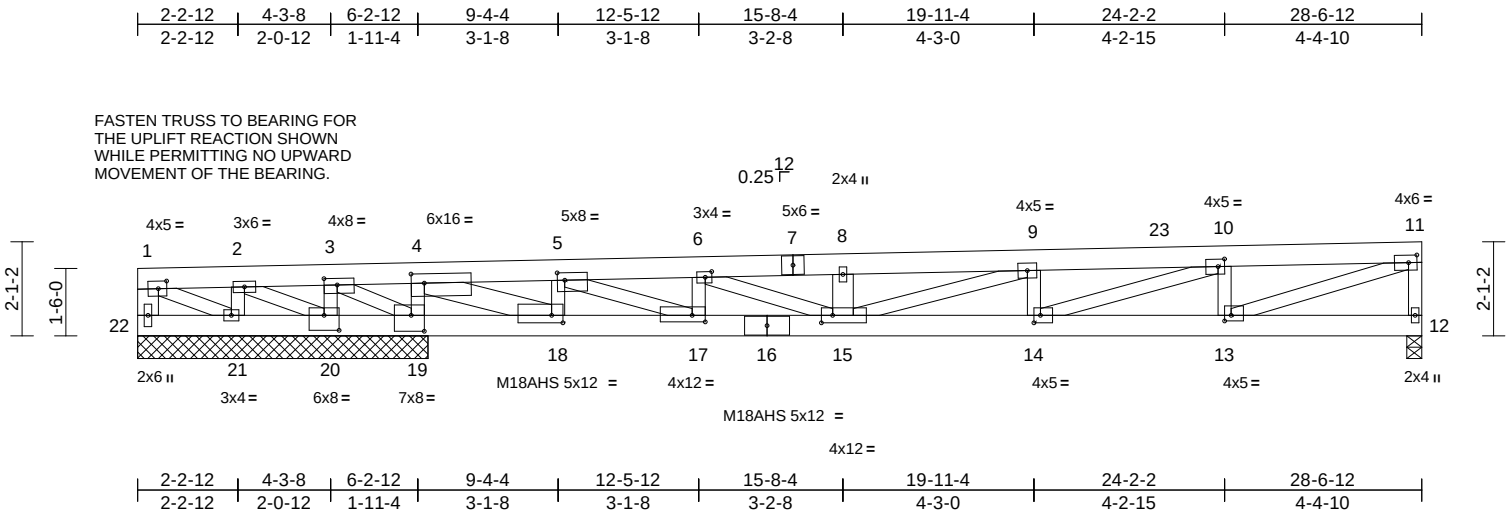



MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934094 |
|---|---|---|---|---|---|
| 3871615 | M06 | Monopitch | 1 | 2 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:13:27 Page: 1
ID:PhMaHiHkJSB3T8GVop16hqzjFK?-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f PRMU20240139




Scale = 1:51.3

Plate Offsets (X, Y): [1:0-2-4,0-2-0], [3:0-3-8,0-1-12], [4:0-3-8,0-2-8], [5:0-2-0,0-2-0], [6:0-1-12,0-1-8], [10:0-1-12,0-2-0], [11:0-2-4,0-2-0], [13:0-1-12,0-1-8], [14:0-1-12,0-2-0], [15:0-3-0,0-2-0], [17:0-3-8,0-1-12], [18:0-3-0,0-2-0], [19:0-3-8,0-4-4], [20:0-4-0,0-4-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.91 | Vert(LL) | -0.24 | 14-15 | >999 | 240 | MT20 | 220/195 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.64 | Vert(CT) | -0.48 | 14-15 | >549 | 180 | M18AHS | 169/162 |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.98 | Horz(CT) | 0.02 | 12 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-SH | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 334 lb | FT = 10% |

**LUMBER**

TOP CHORD 2x6 DF No.2 *Except* 1-7:2x6 DF 2400F 2.0E
BOT CHORD 2x6 DF 2400F 2.0E
WEBS 2x4 HF No.2 *Except* 22-1,15-8:2x6 DF No.2, 4-18:2x6 DF 2400F 2.0E, 5-17:2x4 DF No.2

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 3-6-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-10-5 oc bracing.

**REACTIONS** (size) 12=0-4-0, 19=6-5-8, 20=6-5-8, 21=6-5-8, 22=6-5-8
Max Horiz 22=214 (LC 39)
Max Uplift 12=-145 (LC 41), 19=-1074 (LC 41), 20=-3055 (LC 1), 21=-249 (LC 41), 22=-1091 (LC 56)
Max Grav 12=2047 (LC 1), 19=16917 (LC 1), 20=188 (LC 32), 21=2045 (LC 56), 22=441 (LC 41)

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

TOP CHORD 1-22=-484/901, 1-2=-1224/3204, 2-3=-2310/7399, 3-4=-3800/14572, 4-5=-2394/1454, 5-6=-11145/3105, 6-8=-12220/3183, 8-9=-12187/2798, 9-10=-9016/2020, 10-11=-4882/1054, 11-12=-1935/409
BOT CHORD 21-22=-1190/1020, 20-21=-3719/1847, 19-20=-8019/3064, 18-19=-14589/4058, 17-18=-1447/2320, 15-17=-2960/10977, 14-15=-2069/9012, 13-14=-1045/4878, 12-13=-45/165
WEBS 1-21=-3289/1242, 2-21=-299/267, 2-20=-4915/1448, 4-19=-10477/2093, 8-15=-1659/380, 3-20=-871/3660, 3-19=-8504/1994, 9-15=-965/3568, 11-13=-1072/5051, 9-14=-1315/411, 10-14=-1089/4400, 10-13=-1799/453, 4-18=-3437/17016, 5-18=-6606/1373, 5-17=-2128/10213, 6-17=-3745/821, 6-15=-435/1378

**NOTES**

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Web connected as follows: 2x4 - 2 rows staggered at 0-3-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
4) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
9) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1091 lb uplift at joint 22, 145 lb uplift at joint 12, 249 lb uplift at joint 21, 3055 lb uplift at joint 20 and 1074 lb uplift at joint 19.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.


February 22,2024

Continued on page 2



MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

13) This truss has been designed for a total drag load of 3000 lb. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 6-5-8 for 464.5 plf.
14) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.

**LOAD CASE(S)** Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (lb/ft)
   Vert: 1-8=-998, 8-23=-80, 11-23=-90, 12-22=-20



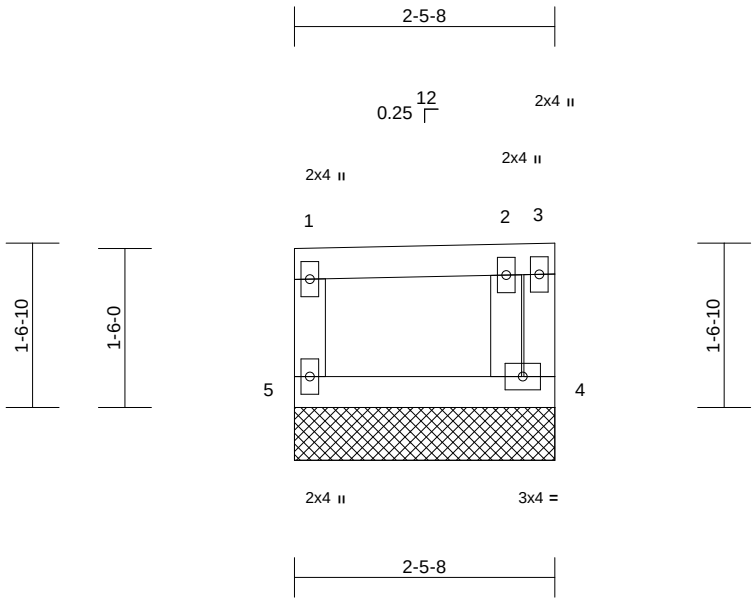

MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934095 |
|---|---|---|---|---|---|
| 3871615 | M07 | Monopitch | 2 | 1 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:13:30 Page: 1
ID:B5b2LoI3ggj5RfjEDewTP9zjFl5-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

PRMU20240139




Scale = 1:21.8

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.04 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 185/148 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.03 | Vert(TL) | n/a | - | n/a | 999 | | |
| TCDL | 15.0 | Rep Stress Incr | YES | WB | 0.02 | Horiz(TL) | 0.00 | 4 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-R | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 9 lb | FT = 10% |

**LUMBER**

| | |
|---|---|
| TOP CHORD | 2x4 HF No.2 |
| BOT CHORD | 2x4 HF No.2 |
| WEBS | 2x4 HF No.2 |
| OTHERS | 2x4 HF No.2 |

**BRACING**

| | |
|---|---|
| TOP CHORD | Structural wood sheathing directly applied or 2-5-8 oc purlins, except end verticals. |
| BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing. |

**REACTIONS** (size) 4=2-5-8, 5=2-5-8
Max Horiz 5=31 (LC 9)
Max Uplift 4=-7 (LC 9), 5=-14 (LC 8)
Max Grav 4=113 (LC 1), 5=100 (LC 1)

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

| | |
|---|---|
| TOP CHORD | 1-5=-76/70, 1-2=-19/17, 2-3=-9/10, 3-4=-51/43 |
| BOT CHORD | 4-5=-40/44 |
| WEBS | 2-4=-110/140 |

**NOTES**

1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
10) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 14 lb uplift at joint 5 and 7 lb uplift at joint 4.
12) 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


February 22,2024



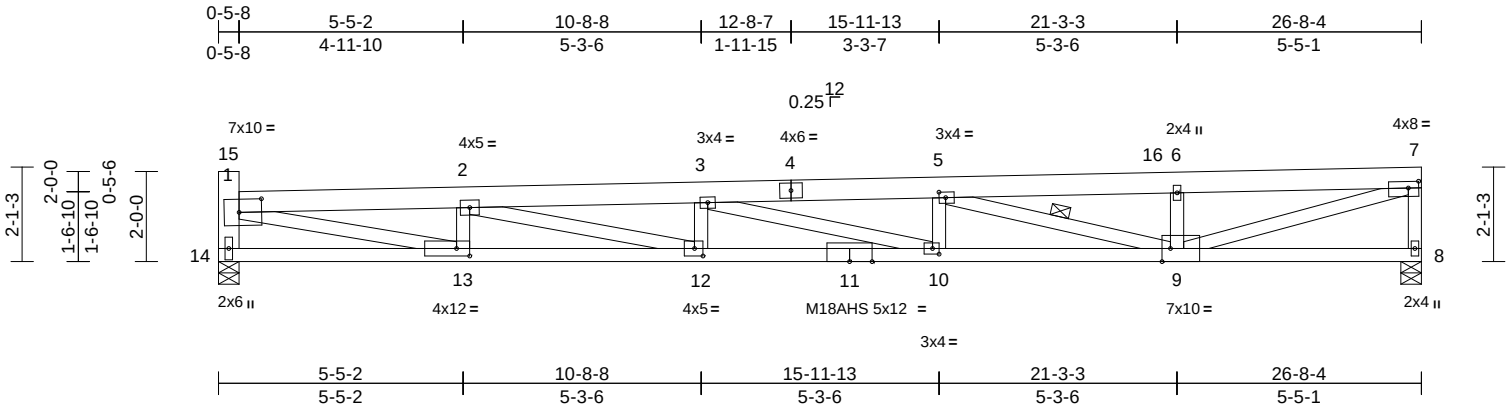
MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934096 |
|---|---|---|---|---|---|
| 3871615 | M08 | Monopitch | 6 | 1 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:13:30 Page: 1
ID:yTk6lhBM8kouUZg66BIZi_zjGNG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

PRMU20240139




Scale = 1:51.1

Plate Offsets (X, Y): [1:0-6-0,0-3-8], [5:0-1-12,0-1-8], [7:0-2-12,0-1-12], [9:0-2-4,Edge], [10:0-1-12,0-1-8], [12:0-2-4,0-2-0], [13:0-3-8,0-2-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.54 | Vert(LL) | -0.48 | 10-12 | >666 | 240 | MT20 | 220/195 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.92 | Vert(CT) | -0.97 | 10-12 | >327 | 180 | M18AHS | 169/162 |
| TCDL | 15.0 | Rep Stress Incr | YES | WB | 0.82 | Horz(CT) | 0.13 | 8 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-SH | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 132 lb | FT = 10% |

**LUMBER**
TOP CHORD 2x6 DF No.2
BOT CHORD 2x4 DF 1800F 1.6E
WEBS 2x4 HF No.2 *Except* 15-14:2x6 DF No.2

**BRACING**
TOP CHORD Structural wood sheathing directly applied or 2-7-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 5-9

**REACTIONS** (size) 8=0-5-8, 14=0-5-8
Max Horiz 14=62 (LC 11)
Max Uplift 8=-27 (LC 12), 14=-67 (LC 8)
Max Grav 8=1379 (LC 1), 14=1315 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-4404/880, 2-3=-6092/1177, 3-5=-5663/1058, 5-6=-3638/626, 6-7=-3640/631, 7-8=-1316/243, 1-14=-1331/294, 1-15=0/0
BOT CHORD 13-14=-221/600, 12-13=-929/4396, 10-12=-1222/6087, 9-10=-1098/5658, 8-9=-24/108
WEBS 2-13=-771/243, 6-9=-475/148, 1-13=-767/3892, 3-12=-305/143, 2-12=-342/1740, 5-10=0/285, 3-10=-444/128, 5-9=-2104/464, 7-9=-660/3709

**NOTES**
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) interior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 27 lb uplift at joint 8 and 67 lb uplift at joint 14.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

**LOAD CASE(S)** Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-16=-80, 7-16=-90, 8-14=-20


February 22,2024

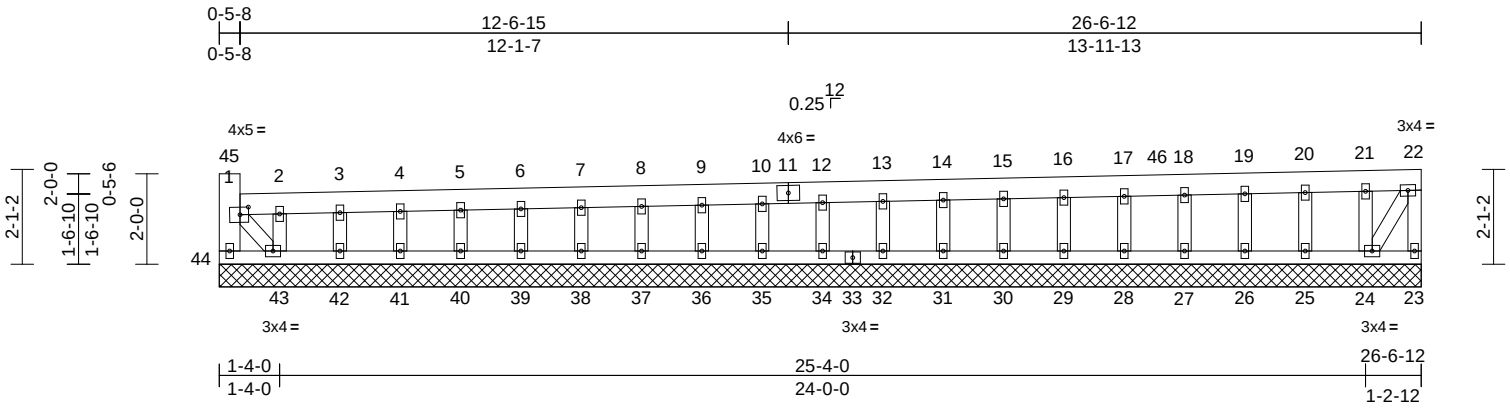



MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934097 |
|---|---|---|---|---|---|
| 3871615 | M09 | Monopitch Supported Gable | 2 | 1 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223, Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:13:31 Page: 1

ID:kkXxmONuQdMH1dnwbX6y8LzjFos-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f PRMU20240139




Scale = 1:50.9

Plate Offsets (X, Y): [1:0-2-4,0-2-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.01 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 220/195 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.02 | Vert(TL) | n/a | - | n/a | 999 | | |
| TCDL | 15.0 | Rep Stress Incr | YES | WB | 0.01 | Horiz(TL) | 0.00 | 23 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-SH | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 119 lb | FT = 10% |

**LUMBER**

TOP CHORD 2x6 DF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x4 HF No.2 *Except* 45-44:2x6 DF No.2
OTHERS 2x4 HF No.2

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 10-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except:
10-0-0 oc bracing: 43-44,23-24.

**REACTIONS** (size) 23=26-6-12, 24=26-6-12, 25=26-6-12, 26=26-6-12, 27=26-6-12, 28=26-6-12, 29=26-6-12, 30=26-6-12, 31=26-6-12, 32=26-6-12, 34=26-6-12, 35=26-6-12, 36=26-6-12, 37=26-6-12, 38=26-6-12, 39=26-6-12, 40=26-6-12, 41=26-6-12, 42=26-6-12, 43=26-6-12, 44=26-6-12
Max Horiz 44=43 (LC 9)
Max Uplift 23=-4 (LC 12), 28=-6 (LC 8), 29=-8 (LC 8), 30=-8 (LC 12), 31=-8 (LC 12), 32=-8 (LC 8), 34=-8 (LC 8), 35=-8 (LC 12), 36=-8 (LC 8), 37=-8 (LC 12), 38=-8 (LC 8), 39=-8 (LC 12), 40=-8 (LC 8), 41=-8 (LC 8), 42=-9 (LC 8), 43=-35 (LC 12), 44=-23 (LC 8)
Max Grav 23=45 (LC 1), 24=143 (LC 1), 25=151 (LC 1), 26=147 (LC 1), 27=144 (LC 1), 28=135 (LC 1), 29=133 (LC 1), 30=133 (LC 1), 31=133 (LC 1), 32=133 (LC 1), 34=133 (LC 1), 35=133 (LC 1), 36=133 (LC 1), 37=133 (LC 1), 38=133 (LC 1), 39=133 (LC 1), 40=133 (LC 1), 41=133 (LC 1), 42=137 (LC 1), 43=130 (LC 1), 44=61 (LC 20)

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

TOP CHORD 1-2=-24/8, 2-3=-23/8, 3-4=-22/8, 4-5=-21/8, 5-6=-19/7, 6-7=-18/7, 7-8=-17/7, 8-9=-16/7, 9-10=-15/7, 10-12=-14/6, 12-13=-13/6, 13-14=-12/6, 14-15=-10/6, 15-16=-9/5, 16-17=-8/5, 17-18=-7/5, 18-19=-6/5, 19-20=-6/5, 20-21=-6/6, 21-22=-6/7, 1-44=-61/82, 1-45=0/0
BOT CHORD 43-44=-68/84, 42-43=-8/6, 41-42=-8/6, 40-41=-8/6, 39-40=-8/6, 38-39=-8/6, 37-38=-8/6, 36-37=-8/6, 35-36=-8/6, 34-35=-8/6, 32-34=-8/6, 31-32=-8/6, 30-31=-8/6, 29-30=-8/6, 28-29=-8/6, 27-28=-8/6, 26-27=-8/6, 25-26=-8/6, 24-25=-8/6, 23-24=0/0
WEBS 22-23=-37/21, 2-43=-96/47, 3-42=-110/45, 4-41=-106/43, 5-40=-107/43, 6-39=-107/43, 7-38=-107/43, 8-37=-107/43, 9-36=-107/43, 10-35=-107/43, 12-34=-107/43, 13-32=-107/43, 14-31=-107/43, 15-30=-107/43, 16-29=-106/43, 17-28=-108/41, 18-27=-118/32, 19-26=-120/29, 20-25=-124/31, 21-24=-113/29, 1-43=-114/88, 22-24=-14/11

**NOTES**

1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) interior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
4) Provide adequate drainage to prevent water ponding.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
8) Gable studs spaced at 1-4-0 oc.


February 22,2024

Continued on page 2



MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
11) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 23 lb uplift at joint 44, 4 lb uplift at joint 23, 35 lb uplift at joint 43, 9 lb uplift at joint 42, 8 lb uplift at joint 41, 8 lb uplift at joint 40, 8 lb uplift at joint 39, 8 lb uplift at joint 38, 8 lb uplift at joint 37, 8 lb uplift at joint 36, 8 lb uplift at joint 35, 8 lb uplift at joint 34, 8 lb uplift at joint 32, 8 lb uplift at joint 31, 8 lb uplift at joint 30, 8 lb uplift at joint 29 and 6 lb uplift at joint 28.
13) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
14) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

**LOAD CASE(S)** Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (lb/ft)
   Vert: 1-46=-80, 22-46=-90, 23-44=-20



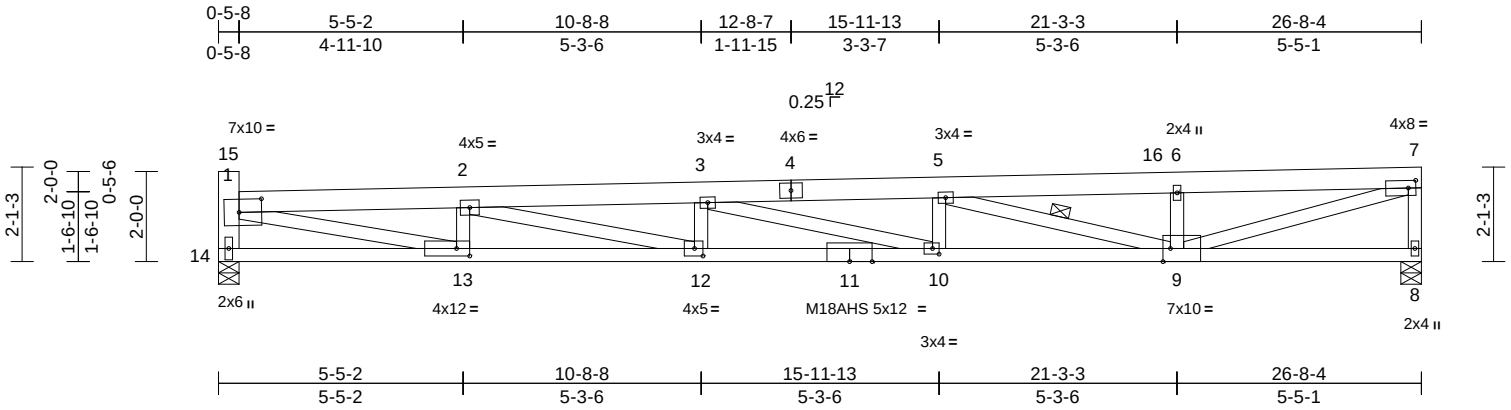

MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934098 |
|---|---|---|---|---|---|
| 3871615 | M10 | Monopitch | 3 | 1 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:13:32 Page: 1
ID:dg0Pp66afr74?s?QtuDR1gzjFF2-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

PRMU20240139




Scale = 1:51.1

Plate Offsets (X, Y): [1:0-6-0,0-3-8], [7:0-2-0,0-2-0], [9:0-2-0,Edge], [10:0-1-12,0-1-8], [12:0-2-4,0-2-0], [13:0-3-8,0-2-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.54 | Vert(LL) | -0.48 | 10-12 | >664 | 240 | MT20 | 220/195 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.92 | Vert(CT) | -0.98 | 10-12 | >326 | 180 | M18AHS | 169/162 |
| TCDL | 15.0 | Rep Stress Incr | YES | WB | 0.82 | Horz(CT) | 0.13 | 8 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-SH | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 132 lb | FT = 10% |

**LUMBER**
TOP CHORD 2x6 DF No.2
BOT CHORD 2x4 DF 1800F 1.6E
WEBS 2x4 HF No.2 *Except* 15-14:2x6 DF No.2

**BRACING**
TOP CHORD Structural wood sheathing directly applied or 2-7-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 5-9

**REACTIONS** (size) 8=0-5-8, 14=0-5-8
Max Horiz 14=43 (LC 9)
Max Uplift 8=-28 (LC 12), 14=-66 (LC 8)
Max Grav 8=1379 (LC 1), 14=1315 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-4403/885, 2-3=-6093/1185, 3-5=-5657/1068, 5-6=-3663/630, 6-7=-3665/635, 1-14=-1331/294, 1-15=0/0
BOT CHORD 13-14=-193/600, 12-13=-904/4396, 10-12=-1200/6088, 9-10=-1078/5652, 8-9=0/0
WEBS 7-8=-1331/242, 2-13=-771/242, 3-12=-304/142, 5-10=0/282, 6-9=-509/153, 7-9=-669/3848, 5-9=-2072/459, 3-10=-451/126, 2-12=-337/1741, 1-13=-762/3892

**NOTES**
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) interior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 66 lb uplift at joint 14 and 28 lb uplift at joint 8.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

**LOAD CASE(S)** Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-16=-80, 7-16=-90, 8-14=-20


February 22,2024



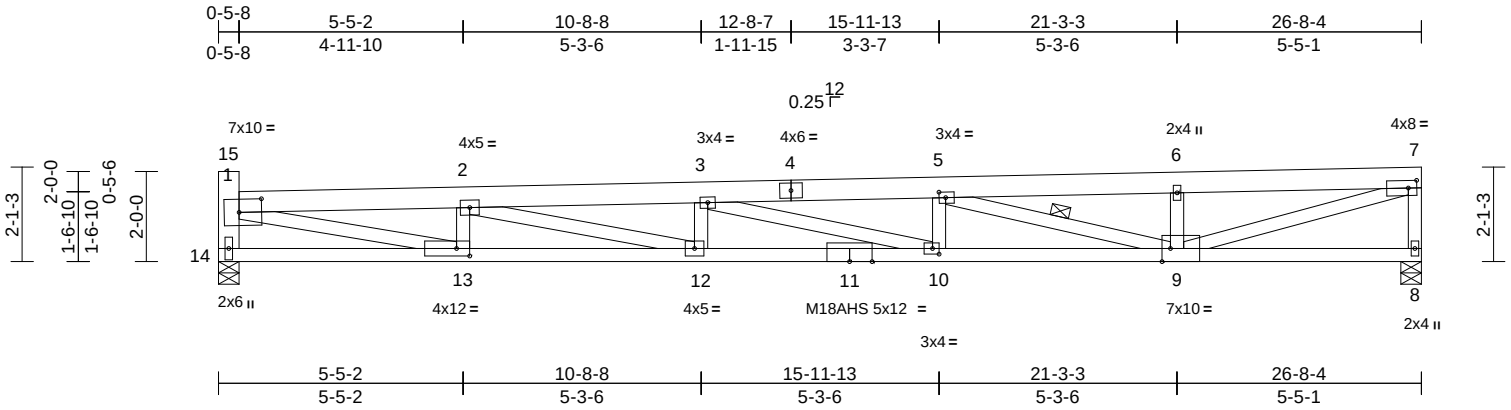

MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934099 |
|---|---|---|---|---|---|
| 3871615 | M11 | Monopitch | 2 | 1 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:13:33 Page: 1
ID:i_Aw3Y9z5TIE9griiAErr6zjFCQ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

PRMU20240139




Scale = 1:51.1

Plate Offsets (X, Y): [1:0-6-0,0-3-8], [5:0-1-12,0-1-8], [7:0-2-4,0-2-0], [9:0-2-4,Edge], [10:0-1-12,0-1-8], [13:0-3-8,0-2-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.54 | Vert(LL) | -0.48 | 10-12 | >664 | 240 | MT20 | 220/195 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.92 | Vert(CT) | -0.97 | 10-12 | >329 | 180 | M18AHS | 169/162 |
| TCDL | 15.0 | Rep Stress Incr | YES | WB | 0.81 | Horz(CT) | 0.13 | 8 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-SH | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 132 lb | FT = 10% |

**LUMBER**
TOP CHORD 2x6 DF No.2
BOT CHORD 2x4 DF 1800F 1.6E
WEBS 2x4 HF No.2 *Except* 15-14:2x6 DF No.2

**BRACING**
TOP CHORD Structural wood sheathing directly applied or 2-7-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 5-9

**REACTIONS** (size) 8=0-5-8, 14=0-5-8
Max Horiz 14=43 (LC 9)
Max Uplift 8=-79 (LC 12), 14=-73 (LC 8)
Max Grav 8=1327 (LC 1), 14=1309 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-4378/910, 2-3=-6045/1233, 3-5=-5593/1132, 5-6=-3574/719, 6-7=-3576/724, 1-14=-1325/301, 1-15=0/0
BOT CHORD 13-14=-196/597, 12-13=-929/4371, 10-12=-1247/6041, 9-10=-1142/5588, 8-9=0/0
WEBS 7-8=-1279/293, 2-13=-766/247, 3-12=-299/147, 5-10=0/286, 6-9=-472/190, 7-9=-763/3755, 5-9=-2098/433, 3-10=-468/109, 2-12=-360/1718, 1-13=-785/3868

**NOTES**
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) interior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 73 lb uplift at joint 14 and 79 lb uplift at joint 8.
9) 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


February 22,2024



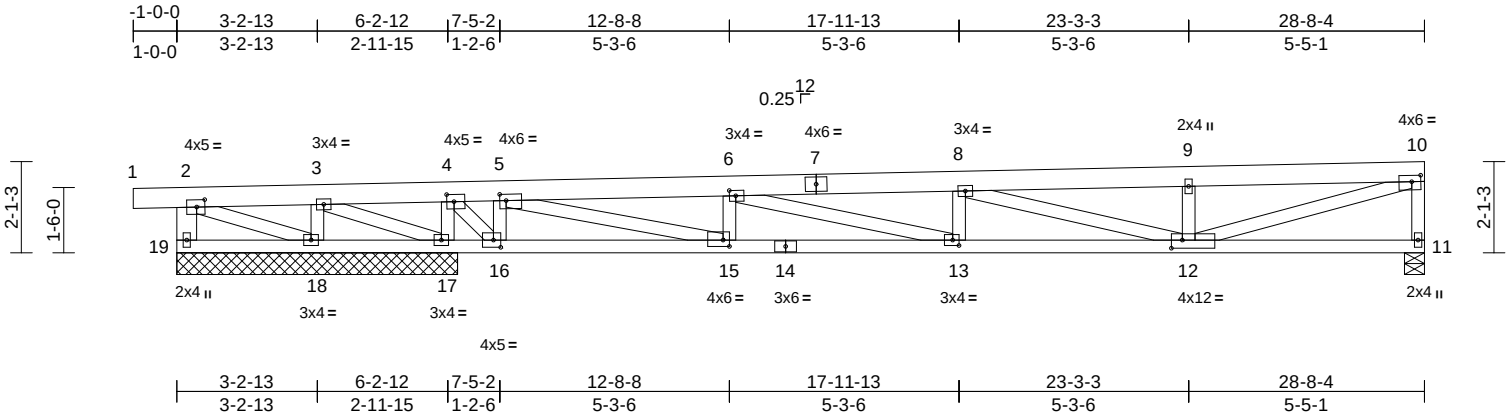

MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934100 |
|---|---|---|---|---|---|
| 3871615 | M12 | Monopitch | 1 | 1 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:13:34 Page: 1

ID:GFG2XVQVL_a1Q7GKg7xGjvzjEOQ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC? PRMU20240139




Scale = 1:53

Plate Offsets (X, Y): [2:0-2-4,0-2-0], [4:0-2-0,0-2-0], [5:0-1-12,0-1-12], [6:0-1-12,0-1-8], [10:0-2-8,0-1-12], [12:0-3-0,0-2-4], [13:0-1-12,0-1-8], [15:0-1-12,0-1-12], [16:0-2-0,0-2-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.57 | Vert(LL) | -0.20 | 13-15 | >999 | 240 | MT20 | 185/148 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.71 | Vert(CT) | -0.40 | 13-15 | >666 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | YES | WB | 0.66 | Horz(CT) | 0.03 | 11 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-SH | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 139 lb | FT = 10% |

**LUMBER**

TOP CHORD 2x6 DF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x4 HF No.2 *Except* 19-2:2x6 DF No.2

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 4-0-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 3-6-1 oc bracing.

**REACTIONS** (size) 11=0-5-8, 17=6-5-8, 18=6-5-8, 19=6-5-8
Max Horiz 19=43 (LC 11)
Max Uplift 11=-57 (LC 12), 17=-131 (LC 12), 18=-224 (LC 1), 19=-68 (LC 3)
Max Grav 11=965 (LC 1), 17=2229 (LC 1), 18=22 (LC 8), 19=110 (LC 18)

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

TOP CHORD 2-19=-82/123, 1-2=0/3, 2-3=-161/765, 3-4=-465/2346, 4-5=-235/1092, 5-6=-1969/383, 6-8=-3109/596, 8-9=-2386/463, 9-10=-2387/467, 10-11=-908/206
BOT CHORD 18-19=-59/44, 17-18=-762/156, 16-17=-2341/445, 15-16=-1090/214, 13-15=-382/1962, 12-13=-594/3105, 11-12=-24/80
WEBS 3-18=-52/532, 4-17=-1543/297, 5-16=-1217/294, 6-15=-653/208, 8-13=-195/117, 9-12=-441/175, 10-12=-459/2421, 8-12=-752/143, 6-13=-219/1181, 5-15=-586/3141, 4-16=-334/1811, 3-17=-1699/330, 2-18=-781/174

**NOTES**

1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
3) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 68 lb uplift at joint 19, 57 lb uplift at joint 11, 224 lb uplift at joint 18 and 131 lb uplift at joint 17.
9) 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


February 22,2024



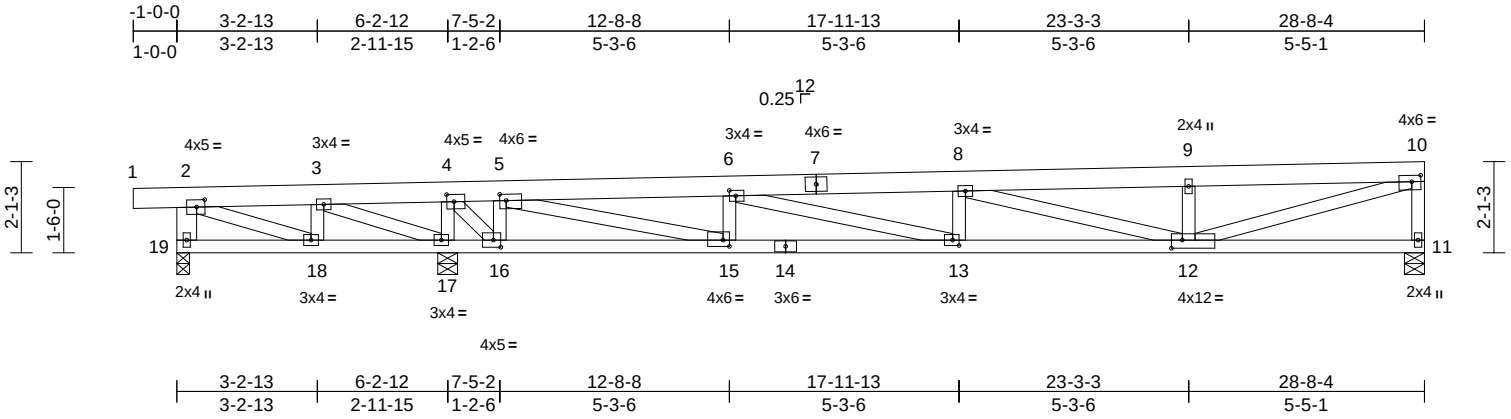
MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934101 |
|---|---|---|---|---|---|
| 3871615 | M13 | Monopitch | 1 | 1 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:13:35 Page: 1

ID:zzYRmNkawv70CPdehPZnz0zjF95-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f PRMU20240139




Scale = 1:53

Plate Offsets (X, Y): [2:0-2-4,0-2-0], [4:0-2-0,0-2-0], [5:0-1-12,0-1-12], [6:0-1-12,0-1-8], [10:0-2-8,0-1-12], [12:0-3-0,0-2-4], [13:0-1-12,0-1-8], [15:0-1-12,0-1-12], [16:0-2-0,0-2-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.61 | Vert(LL) | -0.20 | 13-15 | >999 | 240 | MT20 | 185/148 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.79 | Vert(CT) | -0.40 | 13-15 | >663 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.66 | Horz(CT) | 0.03 | 11 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-SH | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 139 lb | FT = 10% |

**LUMBER**

TOP CHORD 2x6 DF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x4 HF No.2 *Except* 19-2:2x6 DF No.2

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 4-0-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 3-6-1 oc bracing.

**REACTIONS** (size) 11=0-5-8, 17=0-5-8, 19=0-3-8
Max Horiz 19=43 (LC 9)
Max Uplift 11=-57 (LC 12), 17=-120 (LC 12), 19=-143 (LC 1)
Max Grav 11=967 (LC 1), 17=2106 (LC 1), 19=50 (LC 18)

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

TOP CHORD 2-19=-26/187, 1-2=0/3, 2-3=-197/977, 3-4=-464/2336, 4-5=-229/1057, 5-6=-1994/388, 6-8=-3124/600, 8-9=-2393/465, 9-10=-2394/469, 10-11=-911/206
BOT CHORD 18-19=-75/43, 17-18=-974/203, 16-17=-2331/443, 15-16=-1054/206, 13-15=-386/1987, 12-13=-596/3120, 11-12=-24/81
WEBS 4-17=-1520/293, 3-17=-1461/289, 3-18=-28/389, 2-18=-978/208, 6-15=-651/207, 8-13=-193/116, 9-12=-441/175, 10-12=-460/2428, 8-12=-760/145, 6-13=-217/1172, 5-16=-1238/298, 5-15=-584/3129, 4-16=-342/1849

**NOTES**

1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
3) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 143 lb uplift at joint 19, 57 lb uplift at joint 11 and 120 lb uplift at joint 17.
9) 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


February 22,2024

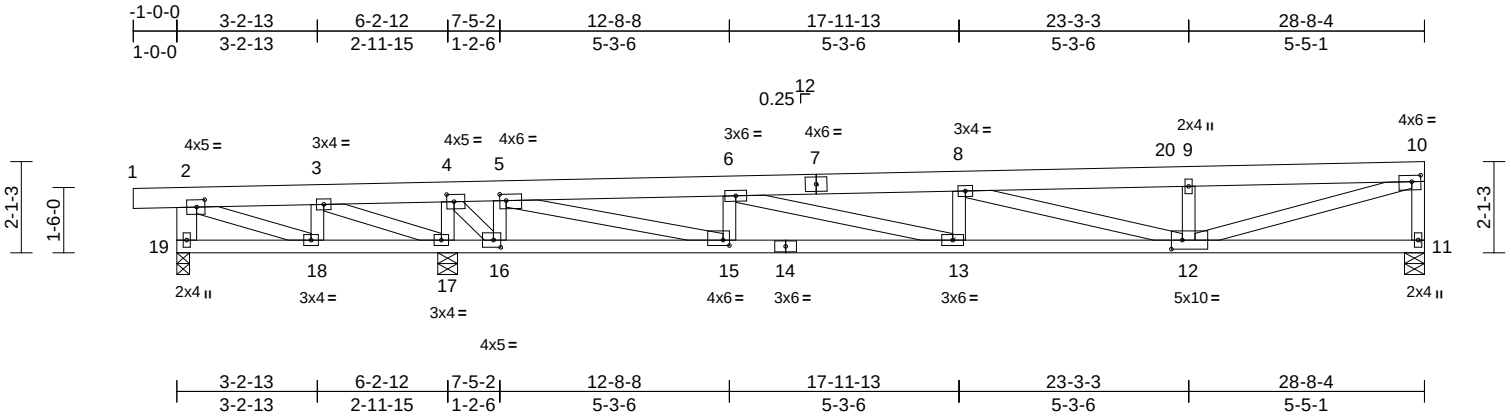


MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934102 |
|---|---|---|---|---|---|
| 3871615 | M14 | Monopitch | 4 | 1 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:13:37 Page: 1
ID:MyA_JaiNKsEywYZ4_MPV6TzjERx-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f PRMU20240139




Scale = 1:53

Plate Offsets (X, Y): [2:0-2-4,0-2-0], [4:0-2-0,0-2-0], [5:0-1-12,0-1-12], [10:0-2-8,0-1-12], [12:0-3-0,0-2-8], [15:0-1-12,0-1-8], [16:0-2-0,0-2-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.62 | Vert(LL) | -0.20 | 13-15 | >999 | 240 | MT20 | 185/148 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.80 | Vert(CT) | -0.41 | 13-15 | >654 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.66 | Horz(CT) | 0.03 | 11 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-SH | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 139 lb | FT = 10% |

**LUMBER**
TOP CHORD 2x6 DF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x4 HF No.2 *Except* 19-2:2x6 DF No.2

**BRACING**
TOP CHORD Structural wood sheathing directly applied or 4-0-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 3-5-13 oc bracing.

**REACTIONS** (size) 11=0-5-8, 17=0-5-8, 19=0-3-8
Max Horiz 19=43 (LC 9)
Max Uplift 11=-8 (LC 12), 17=-105 (LC 12), 19=-149 (LC 1)
Max Grav 11=1016 (LC 1), 17=2121 (LC 1), 19=44 (LC 18)

**FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-19=-20/192, 1-2=0/3, 2-3=-183/991, 3-4=-437/2362, 4-5=-212/1074, 5-6=-2010/373, 6-8=-3169/555, 8-9=-2472/386, 9-10=-2474/391, 10-11=-959/158
BOT CHORD 18-19=-76/42, 17-18=-988/189, 16-17=-2358/416, 15-16=-1071/190, 13-15=-371/2003, 12-13=-551/3165, 11-12=-18/86
WEBS 9-12=-475/141, 8-13=-200/109, 6-15=-659/199, 4-17=-1531/282, 5-16=-1247/289, 3-18=-23/394, 2-18=-993/194, 3-17=-1474/276, 4-16=-328/1863, 5-15=-550/3163, 6-13=-187/1202, 8-12=-725/180, 10-12=-383/2505

**NOTES**

1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
3) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 149 lb uplift at joint 19, 8 lb uplift at joint 11 and 105 lb uplift at joint 17.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

**LOAD CASE(S)** Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-80, 2-20=-80, 10-20=-90, 11-19=-20


February 22,2024




MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

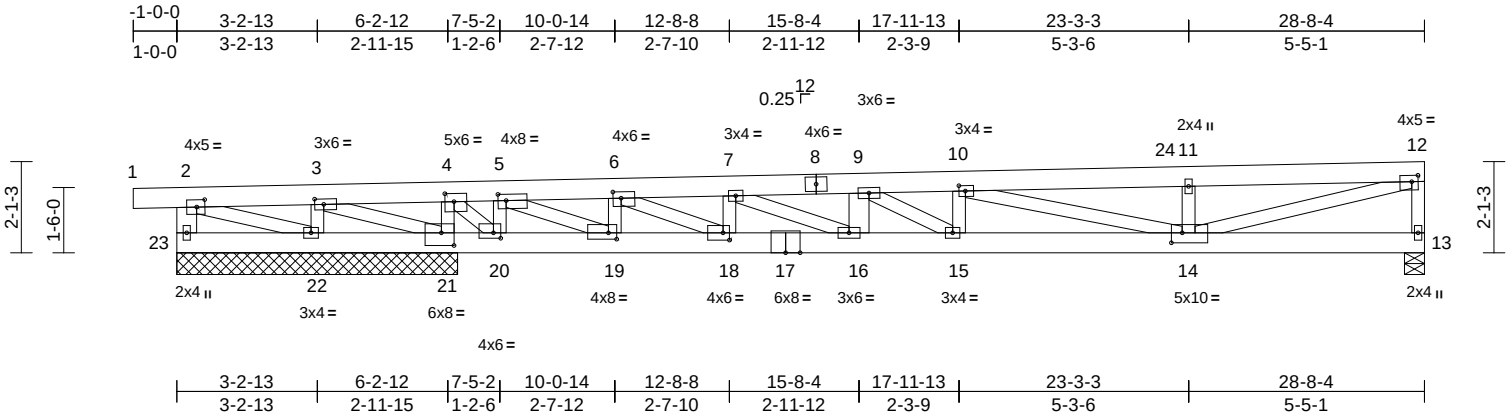
| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934103 |
|---|---|---|---|---|---|
| 3871615 | M15 | Monopitch Girder | 1 | 3 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:13:39 Page: 1

ID:iJdd6NPvGiISroFFvX7K6WzjCwC-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

PRMU20240139




FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

Scale = 1:53

Plate Offsets (X, Y): [2:0-2-4,0-2-0], [3:0-2-8,0-1-8], [4:0-2-8,0-2-4], [5:0-2-4,0-1-12], [6:0-2-4,0-1-12], [10:0-1-12,0-1-8], [12:0-1-12,0-1-12], [14:0-3-0,0-2-12], [18:0-1-12,0-2-0], [19:0-2-4,0-1-12], [20:0-2-0,0-1-8], [21:0-3-8,0-3-8]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.60 | Vert(LL) | -0.20 | 15-16 | >999 | 240 | MT20 | 220/195 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.77 | Vert(CT) | -0.41 | 15-16 | >653 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | Yes | WB | 0.97 | Horz(CT) | 0.03 | 13 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-SH | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 501 lb | FT = 10% |

**LUMBER**

TOP CHORD 2x6 DF No.2 *Except* 1-8:2x6 DF 2400F 2.0E

BOT CHORD 2x6 DF No.2

WEBS 2x4 HF No.2 *Except* 23-2,16-9:2x6 DF No.2, 19-5:2x4 DF No.2

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

**REACTIONS** (size) 13=0-5-8, 21=6-5-8, 22=6-5-8, 23=6-5-8

Max Horiz 23=192 (LC 40)

Max Uplift 13=-201 (LC 42), 21=-1301 (LC 42), 22=-166 (LC 56), 23=-523 (LC 37)

Max Grav 13=2260 (LC 1), 21=16642 (LC 1), 22=188 (LC 47), 23=360 (LC 42)

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

TOP CHORD 2-23=-381/631, 1-2=0/3, 2-3=-1940/5705, 3-4=-4054/14708, 4-5=-2697/8461, 5-6=-6076/2005, 6-7=-13166/3542, 7-9=-14442/3866, 9-10=-11952/3198, 10-11=-6757/1993, 11-12=-6759/1567, 12-13=-2146/492

BOT CHORD 22-23=-1330/1253, 21-22=-6395/2784, 20-21=-14832/4215, 19-20=-8590/2779, 18-19=-1979/5994, 16-18=-3411/13034, 15-16=-3696/14411, 14-15=-2983/11944, 13-14=-56/230

WEBS 3-22=-356/998, 4-21=-10860/2278, 5-20=-7417/1615, 7-18=-3670/893, 10-15=-344/1580, 9-16=-365/186, 11-14=-522/160, 9-15=-3105/830, 10-14=-5375/1450, 12-14=-1598/6830, 7-16=-642/1605, 2-22=-5884/1911, 3-21=-9872/2518, 4-20=-2008/8943, 6-18=-1966/8354, 6-19=-6316/1388, 5-19=-3191/15077

**NOTES**

1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-4-0 oc, 2x6 - 2 rows staggered at 0-4-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
4) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
5) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
6) Provide adequate drainage to prevent water ponding.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
9) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 523 lb uplift at joint 23, 201 lb uplift at joint 13, 166 lb uplift at joint 22 and 1301 lb uplift at joint 21.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.


February 22,2024

Continued on page 2



MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

13) This truss has been designed for a total drag load of 2600 lb. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 6-5-8 for 402.6 plf.
14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 274 lb down and 196 lb up at 15-10-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

**LOAD CASE(S)** Standard

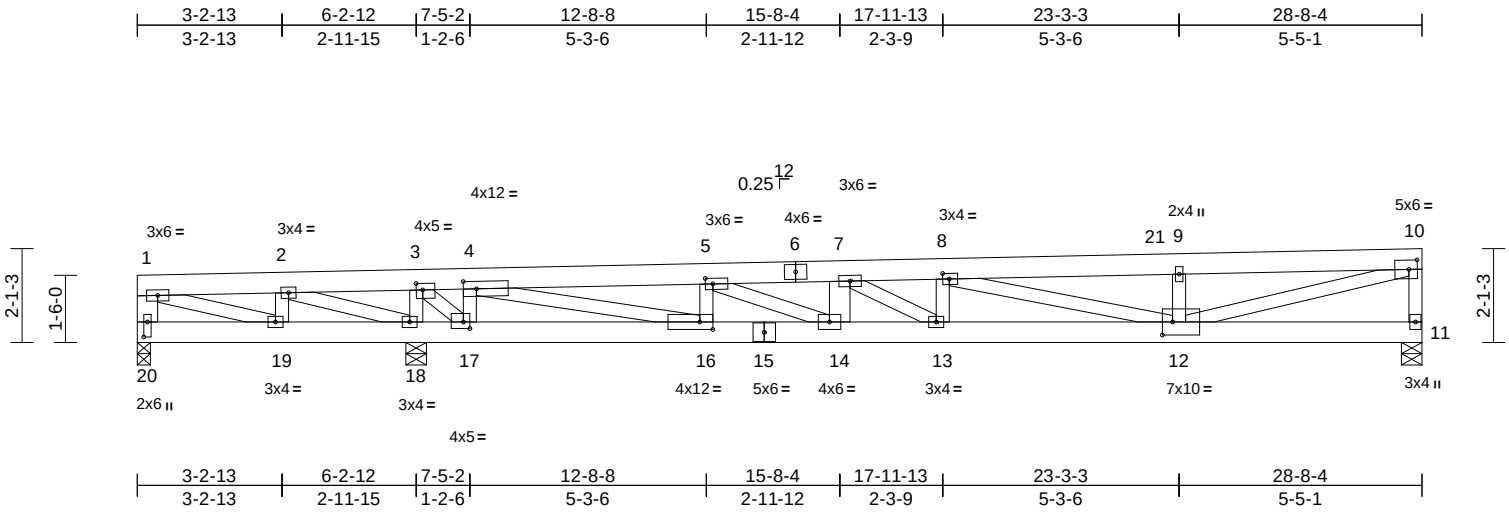
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (lb/ft)
   Vert: 1-2=-80, 2-9=-1082, 9-24=-80, 12-24=-90, 13-23=-20
   Concentrated Loads (lb)
   Vert: 16=-172 (B)

| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934104 |
|---|---|---|---|---|---|
| 3871615 | M16 | Monopitch Girder | 1 | 1 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:13:43 Page: 1
ID:B_AMYy7dCIfehrfrLnFBT7zjE5R-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

PRMU20240139




Scale = 1:51.4

Plate Offsets (X, Y): [3:0-1-12,0-1-12], [4:0-3-8,0-2-0], [5:0-2-0,0-1-8], [8:0-1-12,0-1-8], [10:0-2-4,0-2-8], [12:0-2-12,0-3-8], [16:0-3-8,0-2-0], [17:0-1-12,0-1-12], [20:0-4-0,0-1-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.73 | Vert(LL) | -0.23 | 13-14 | >999 | 240 | MT20 | 220/195 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.79 | Vert(CT) | -0.44 | 13-14 | >605 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.81 | Horz(CT) | 0.02 | 11 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-SH | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 164 lb | FT = 10% |

**LUMBER**
TOP CHORD 2x6 DF No.2
BOT CHORD 2x6 DF No.2
WEBS 2x4 HF No.2 *Except* 20-1,7-14:2x6 DF No.2

**BRACING**
TOP CHORD Structural wood sheathing directly applied or 3-6-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-1-1 oc bracing.

**REACTIONS** (size) 11=0-5-8, 18=0-5-8, 20=0-3-8
Max Horiz 20=34 (LC 11)
Max Uplift 11=-136 (LC 12), 18=-513 (LC 12), 20=-430 (LC 2)
Max Grav 11=1139 (LC 1), 18=2526 (LC 1), 20=150 (LC 12)

**FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-559/1463, 2-3=-1046/2959, 3-4=-494/1307, 4-5=-2457/909, 5-7=-4210/1646, 7-8=-4148/1465, 8-9=-2948/827, 9-10=-2950/832, 10-11=-1051/277
BOT CHORD 19-20=-51/36, 18-19=-1460/562, 17-18=-2954/1040, 16-17=-1303/485, 14-16=-918/2450, 13-14=-1651/4208, 12-13=-1467/4147, 11-12=-39/132
WEBS 10-12=-826/2945, 1-20=-174/462, 3-18=-1789/576, 2-19=-111/443, 1-19=-1546/592, 2-18=-1632/522, 4-17=-1442/548, 3-17=-776/2336, 5-16=-938/423, 8-13=-146/258, 9-12=-476/146, 8-12=-1356/664, 4-16=-1399/3848, 7-14=-343/267, 5-14=-802/1920, 7-13=-387/373

**NOTES**
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 136 lb uplift at joint 11, 430 lb uplift at joint 20 and 513 lb uplift at joint 18.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 301 lb down and 196 lb up at 15-10-4, and 288 lb down and 196 lb up at 15-10-4 on bottom chord. The design/ selection of such connection device(s) is the responsibility of others.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-21=-80, 10-21=-90, 11-20=-20
Concentrated Loads (lb)
Vert: 14=-379 (F=-172, B=-207)


February 22,2024




MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

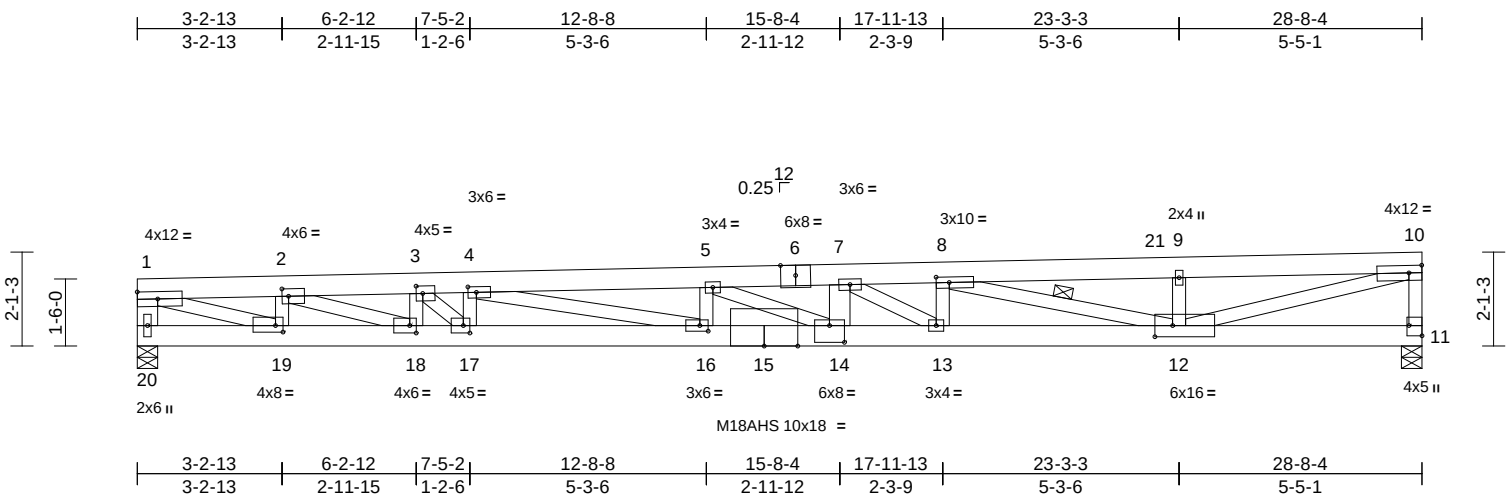
| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934105 |
|---|---|---|---|---|---|
| 3871615 | M17 | Monopitch Girder | 2 | 1 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:13:44 Page: 1

ID:4eBtRW8JiVqvLSIPbkgGFRzjE_z-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

PRMU20240139




Scale = 1:51.4

Plate Offsets (X, Y): [2:0-1-12,0-2-0], [3:0-1-12,0-2-0], [4:0-2-4,0-1-8], [8:0-3-8,0-1-8], [10:0-3-7,0-2-0], [11:Edge,0-3-8], [12:0-4-12,0-3-0], [14:0-4-0,0-4-8], [16:0-2-4,0-1-8], [17:0-1-12,0-2-0], [18:0-1-12,0-2-0], [19:0-2-0,0-1-12]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.93 | Vert(LL) | -0.67 | 14-16 | >509 | 240 | MT20 | 220/195 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.77 | Vert(CT) | -1.29 | 14-16 | >264 | 180 | M18AHS | 169/162 |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 1.00 | Horz(CT) | 0.12 | 11 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-SH | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 165 lb | FT = 10% |

**LUMBER**

TOP CHORD 2x6 DF No.2
BOT CHORD 2x6 DF 2400F 2.0E
WEBS 2x4 HF No.2 *Except* 20-1,14-7:2x6 DF No.2, 12-10:2x4 DF No.2

**BRACING**

TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-1-4 oc bracing.
WEBS 1 Row at midpt 8-12

**REACTIONS** (size) 11=0-5-8, 20=0-5-8
Max Horiz 20=34 (LC 11)
Max Uplift 11=-352 (LC 12), 20=-344 (LC 8)
Max Grav 11=1770 (LC 1), 20=1673 (LC 1)

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

TOP CHORD 1-2=-3900/1273, 2-3=-6497/2212, 3-4=-7931/2791, 4-5=-9734/3681, 5-7=-10191/4087, 7-8=-8773/3364, 8-9=-5113/1761, 9-10=-5115/1766, 10-11=-1670/546
BOT CHORD 19-20=-51/36, 18-19=-1315/3897, 17-18=-2248/6493, 16-17=-2823/7935, 14-16=-3704/9727, 13-14=-4102/10187, 12-13=-3373/8770, 11-12=-57/167
WEBS 1-20=-1584/519, 2-19=-1297/481, 3-18=-1256/481, 4-17=-1041/482, 5-16=-436/297, 7-14=-405/738, 8-13=-352/847, 9-12=-503/156, 10-12=-1788/5181, 8-12=-3790/1665, 5-14=-556/730, 4-16=-907/1879, 3-17=-812/2083, 2-18=-998/2773, 1-19=-1346/4127, 7-13=-1651/848

**NOTES**

1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 352 lb uplift at joint 11 and 344 lb uplift at joint 20.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 301 lb down and 196 lb up at 15-10-4, and 564 lb down and 391 lb up at 15-10-4 on bottom chord. The design/ selection of such connection device(s) is the responsibility of others.
12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-21=-80, 10-21=-90, 11-20=-20
Concentrated Loads (lb)
Vert: 14=-553 (F=-346, B=-207)


February 22,2024




MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

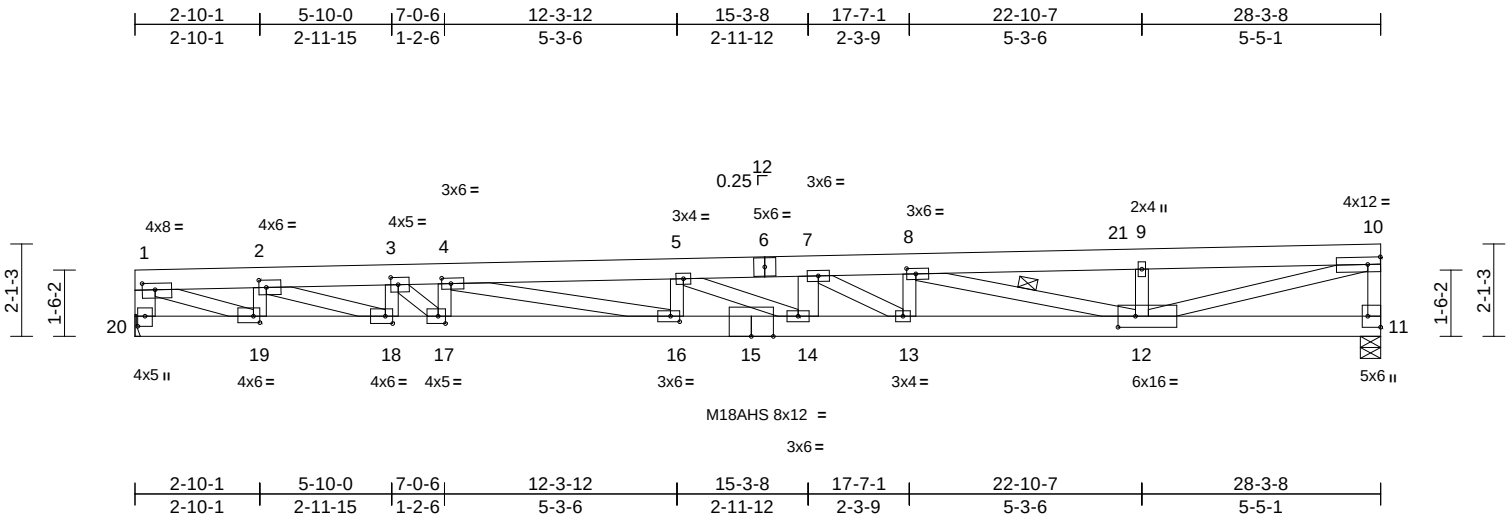
| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934106 |
|---|---|---|---|---|---|
| 3871615 | M18 | Common | 4 | 1 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:13:46 Page: 1

ID:T0YIrUJjTVHyEUAjJhMAkBzjDva-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

PRMU20240139




Scale = 1:52.3

Plate Offsets (X, Y): [1:0-3-8,0-1-12], [2:0-2-0,0-2-0], [3:0-2-0,0-2-0], [4:0-2-8,0-1-8], [8:0-2-8,0-1-8], [10:0-3-7,0-2-0], [11:Edge,0-3-8], [12:0-4-12,0-3-0], [16:0-2-8,0-1-8], [17:0-2-0,0-2-0], [18:0-2-0,0-2-0], [19:0-1-12,0-1-12], [20:0-2-12,0-2-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.81 | Vert(LL) | -0.57 | 14-16 | >588 | 240 | MT20 | 220/195 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.68 | Vert(CT) | -1.13 | 14-16 | >297 | 180 | M18AHS | 169/162 |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 1.00 | Horz(CT) | 0.11 | 11 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-SH | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 162 lb | FT = 10% |

**LUMBER**

TOP CHORD 2x6 DF No.2
BOT CHORD 2x6 DF 2400F 2.0E
WEBS 2x4 HF No.2 *Except* 20-1,14-7:2x6 DF No.2

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 1-10-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-10-9 oc bracing.
WEBS 1 Row at midpt 8-12

**REACTIONS** (size) 11=0-5-8, 20= Mechanical
Max Horiz 20=38 (LC 11)
Max Uplift 11=-241 (LC 12), 20=-256 (LC 8)
Max Grav 11=1672 (LC 1), 20=1593 (LC 1)

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

TOP CHORD 1-20=-1439/415, 1-2=-3295/938, 2-3=-5784/1694, 3-4=-7178/2155, 4-5=-8712/2831, 5-7=-8888/3103, 7-8=-7859/2592, 8-9=-4723/1371, 9-10=-4725/1376, 10-11=-1562/436
BOT CHORD 19-20=-170/390, 18-19=-988/3290, 17-18=-1741/5779, 16-17=-2202/7182, 14-16=-2864/8705, 13-14=-3127/8884, 12-13=-2609/7856, 11-12=-57/186
WEBS 2-19=-1174/385, 3-18=-1198/394, 4-17=-990/402, 5-16=-385/243, 7-14=-272/551, 8-13=-235/688, 9-12=-482/149, 10-12=-1384/4747, 8-12=-3297/1274, 7-13=-1306/603, 5-14=-381/530, 4-16=-687/1665, 3-17=-654/1960, 1-19=-890/3128, 2-18=-810/2654

**NOTES**

1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) interior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 256 lb uplift at joint 20 and 241 lb uplift at joint 11.
10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
11) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 301 lb down and 196 lb up at 15-5-8, and 317 lb down and 196 lb up at 15-5-8 on bottom chord. The design/ selection of such connection device(s) is the responsibility of others.
13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-21=-80, 10-21=-90, 11-20=-20
Concentrated Loads (lb)
Vert: 14=-415 (F=-207, B=-207)


February 22,2024



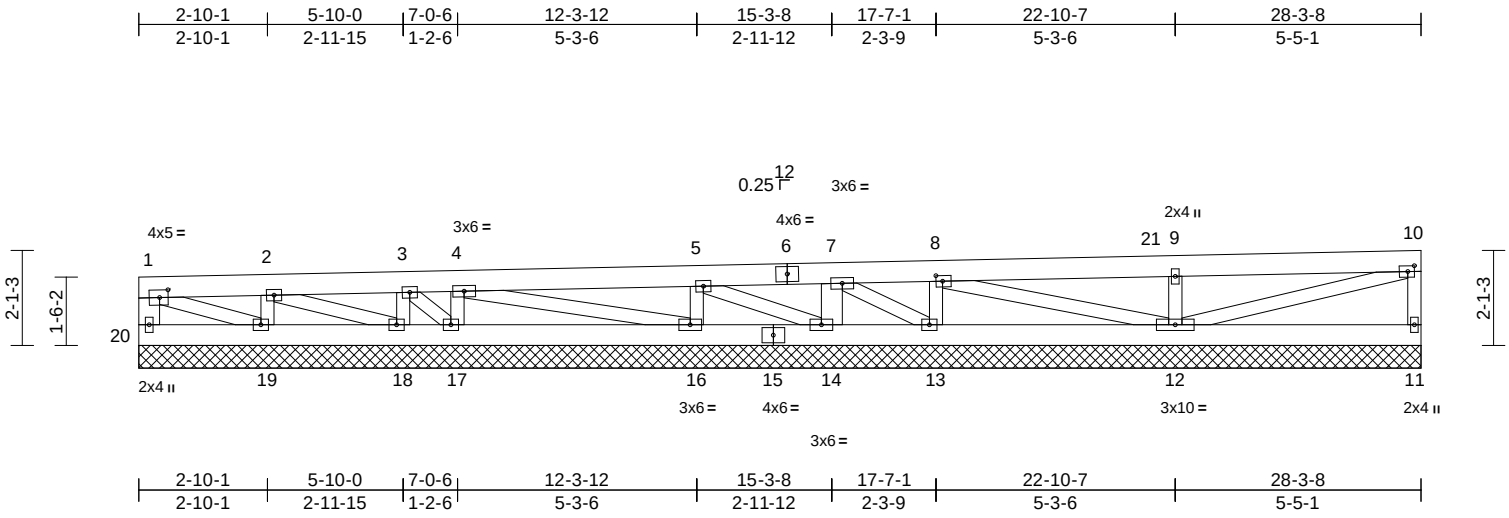

MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934107 |
|---|---|---|---|---|---|
| 3871615 | M19 | Monopitch Girder | 1 | 1 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:13:48 Page: 1

ID:VowGosB0PdGAo3NSFgd_NNzjDrs-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f PRMU20240139




Scale = 1:50.8

Plate Offsets (X, Y): [1:0-2-4,0-2-0], [8:0-1-12,0-1-8], [10:0-1-12,0-1-8]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.24 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 220/195 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.10 | Vert(TL) | n/a | - | n/a | 999 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.06 | Horiz(TL) | 0.00 | 12 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-SH | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 162 lb | FT = 10% |

**LUMBER**

TOP CHORD 2x6 DF No.2
BOT CHORD 2x6 DF No.2
WEBS 2x4 HF No.2 *Except* 20-1,14-7:2x6 DF No.2

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 13-14,12-13.

**REACTIONS** (size) 11=28-3-8, 12=28-3-8, 13=28-3-8, 14=28-3-8, 16=28-3-8, 17=28-3-8, 18=28-3-8, 19=28-3-8, 20=28-3-8
Max Horiz 20=21 (LC 9)
Max Uplift 13=-30 (LC 12), 14=-205 (LC 12), 16=-25 (LC 12), 17=-25 (LC 12), 18=-7 (LC 8), 19=-17 (LC 12), 20=-6 (LC 8)
Max Grav 11=224 (LC 1), 12=663 (LC 1), 13=395 (LC 1), 14=447 (LC 22), 16=464 (LC 1), 17=457 (LC 1), 18=67 (LC 1), 19=315 (LC 1), 20=106 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-20=-85/32, 1-2=-19/3, 2-3=-10/1, 3-4=-9/2, 4-5=-12/1, 5-7=-12/17, 7-8=-7/7, 8-9=-9/19, 9-10=-5/17
BOT CHORD 19-20=-38/27, 18-19=-25/17, 17-18=-15/8, 16-17=-12/8, 14-16=-11/7, 13-14=-15/0, 12-13=-4/0, 11-12=0/0
WEBS 2-19=-249/96, 3-18=-54/19, 4-17=-365/141, 5-16=-369/142, 8-13=-318/133, 7-14=-123/41, 9-12=-533/150, 10-12=-15/2, 8-12=-10/5, 7-13=-3/13, 5-14=-25/12, 4-16=-1/1, 3-17=-2/5, 1-19=-11/14, 2-18=-13/10, 10-11=-183/40

**NOTES**

1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) interior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
3) Provide adequate drainage to prevent water ponding.
4) All plates are 3x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
8) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 6 lb uplift at joint 20, 17 lb uplift at joint 19, 7 lb uplift at joint 18, 25 lb uplift at joint 17, 25 lb uplift at joint 16, 30 lb uplift at joint 13 and 205 lb uplift at joint 14.
10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
11) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 317 lb down and 196 lb up at 15-5-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-21=-80, 10-21=-90, 11-20=-20
Concentrated Loads (lb)
Vert: 14=-207 (F)


February 22,2024



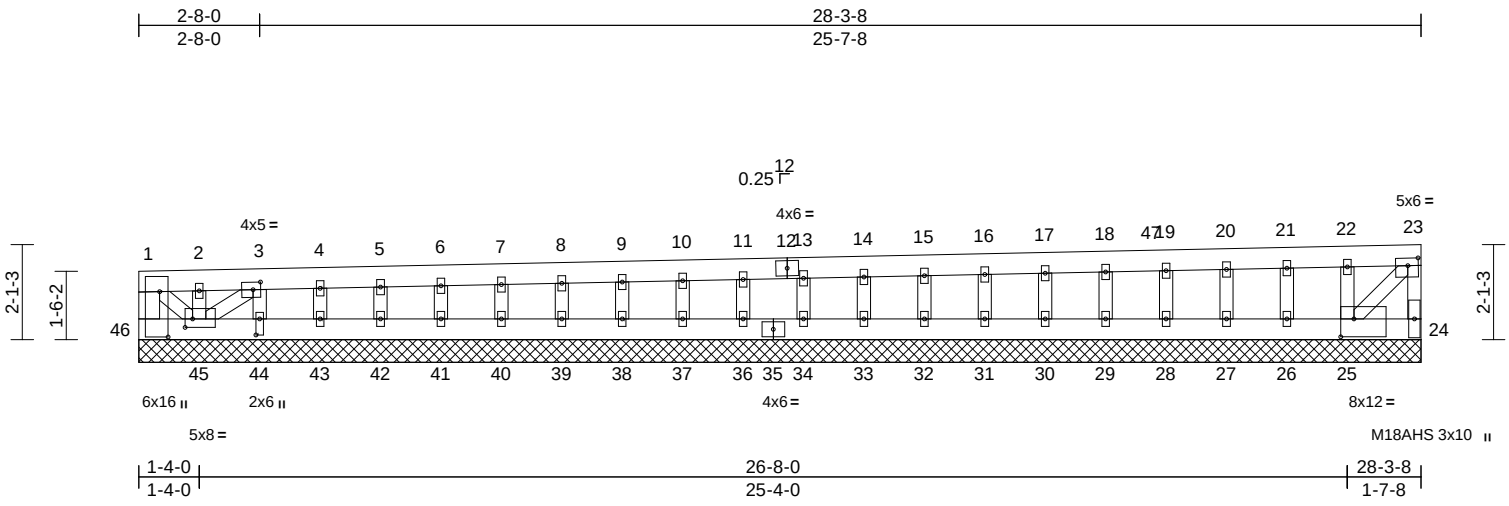
MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934108 |
|---|---|---|---|---|---|
| 3871615 | M20 | Monopitch Supported Gable | 2 | 1 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:13:50 Page: 1
ID:66w78Xbn5GujitEl21iB4rzjDq2-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

PRMU20240139




Scale = 1:50.8

Plate Offsets (X, Y): [3:0-2-0,0-2-0], [23:0-2-12,0-2-0], [25:0-3-8,0-4-12], [44:0-4-4,0-1-0], [45:0-2-0,0-2-4], [46:1-0-0,0-2-4]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.59 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 220/195 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.40 | Vert(TL) | n/a | - | n/a | 999 | M18AHS | 145/140 |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.61 | Horiz(TL) | -0.02 | 33 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-SH | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 148 lb | FT = 10% |

**LUMBER**
TOP CHORD 2x6 DF No.2
BOT CHORD 2x6 DF No.2
WEBS 2x4 HF No.2 *Except* 46-1:2x6 DF No.2
OTHERS 2x4 HF No.2

**BRACING**
TOP CHORD Structural wood sheathing directly applied or 4-8-3 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-6-4 oc bracing.

**REACTIONS** (size) 24=28-3-8, 25=28-3-8, 26=28-3-8, 27=28-3-8, 28=28-3-8, 29=28-3-8, 30=28-3-8, 31=28-3-8, 32=28-3-8, 33=28-3-8, 34=28-3-8, 36=28-3-8, 37=28-3-8, 38=28-3-8, 39=28-3-8, 40=28-3-8, 41=28-3-8, 42=28-3-8, 43=28-3-8, 44=28-3-8, 45=28-3-8, 46=28-3-8
Max Horiz 46=38 (LC 39)
Max Uplift 24=-2508 (LC 41), 25=-2504 (LC 32), 26=-38 (LC 40), 28=-2 (LC 41), 29=-8 (LC 32), 30=-8 (LC 41), 31=-8 (LC 32), 32=-8 (LC 41), 33=-8 (LC 32), 34=-8 (LC 40), 36=-8 (LC 32), 37=-8 (LC 41), 38=-8 (LC 32), 39=-8 (LC 40), 40=-8 (LC 33), 41=-11 (LC 41), 42=-55 (LC 32), 43=-162 (LC 41), 44=-1169 (LC 41), 45=-230 (LC 41), 46=-1562 (LC 32)
Max Grav 24=2544 (LC 52), 25=2607 (LC 53), 26=161 (LC 27), 27=147 (LC 1), 28=142 (LC 1), 29=134 (LC 1), 30=133 (LC 1), 31=133 (LC 1), 32=133 (LC 1), 33=133 (LC 1), 34=133 (LC 1), 36=133 (LC 1), 37=133 (LC 1), 38=133 (LC 1), 39=133 (LC 1), 40=133 (LC 1), 41=133 (LC 1), 42=152 (LC 27), 43=231 (LC 26), 44=1227 (LC 52), 45=295 (LC 26), 46=1585 (LC 39)

**FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-46=-1433/1416, 1-2=-1543/1535, 2-3=-1315/1308, 3-4=-2802/2775, 4-5=-2530/2505, 5-6=-2253/2238, 6-7=-1993/1971, 7-8=-1724/1704, 8-9=-1456/1437, 9-10=-1187/1170, 10-11=-918/903, 11-13=-649/636, 13-14=-380/369, 14-15=-191/182, 15-16=-459/450, 16-17=-727/719, 17-18=-995/988, 18-19=-1263/1256, 19-20=-1531/1522, 20-21=-1791/1793, 21-22=-2066/2061, 22-23=-2365/2330, 23-24=-2474/2462
BOT CHORD 45-46=-297/244, 44-45=-3061/3048, 43-44=-2792/2780, 42-43=-2525/2486, 41-42=-2258/2245, 40-41=-1990/1977, 39-40=-1722/1709, 38-39=-1454/1441, 37-38=-1187/1174, 36-37=-919/906, 34-36=-651/638, 33-34=-383/370, 32-33=-195/183, 31-32=-463/450, 30-31=-731/718, 29-30=-999/986, 28-29=-1267/1254, 27-28=-1534/1516, 26-27=-1775/1789, 25-26=-2070/2057, 24-25=-235/228
WEBS 2-45=-284/281, 3-44=-1241/1256, 4-43=-196/186, 5-42=-123/85, 6-41=-107/44, 7-40=-107/42, 8-39=-107/41, 9-38=-107/41, 10-37=-107/41, 11-36=-107/41, 13-34=-107/41, 14-33=-107/41, 15-32=-107/41, 16-31=-107/41, 17-30=-106/41, 18-29=-107/41, 19-28=-116/34, 20-27=-120/31, 21-26=-155/96, 22-25=-173/109, 1-45=-1797/1824, 3-45=-2277/2258, 23-25=-3386/3375

**NOTES**
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) interior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60


February 22,2024

Continued on page 2



MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) All plates are 2x4 MT20 unless otherwise indicated.
7) Gable requires continuous bottom chord bearing.
8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
9) Gable studs spaced at 1-4-0 oc.
10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
11) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
12) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1562 lb uplift at joint 46, 2508 lb uplift at joint 24, 230 lb uplift at joint 45, 1169 lb uplift at joint 44, 162 lb uplift at joint 43, 55 lb uplift at joint 42, 11 lb uplift at joint 41, 8 lb uplift at joint 40, 8 lb uplift at joint 39, 8 lb uplift at joint 38, 8 lb uplift at joint 37, 8 lb uplift at joint 36, 8 lb uplift at joint 34, 8 lb uplift at joint 33, 8 lb uplift at joint 32, 8 lb uplift at joint 31, 8 lb uplift at joint 30, 8 lb uplift at joint 29, 2 lb uplift at joint 28, 38 lb uplift at joint 26 and 2504 lb uplift at joint 25.
14) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
15) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
16) This truss has been designed for a total drag load of 5682 lb. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 28-3-8 for 200.8 plf.

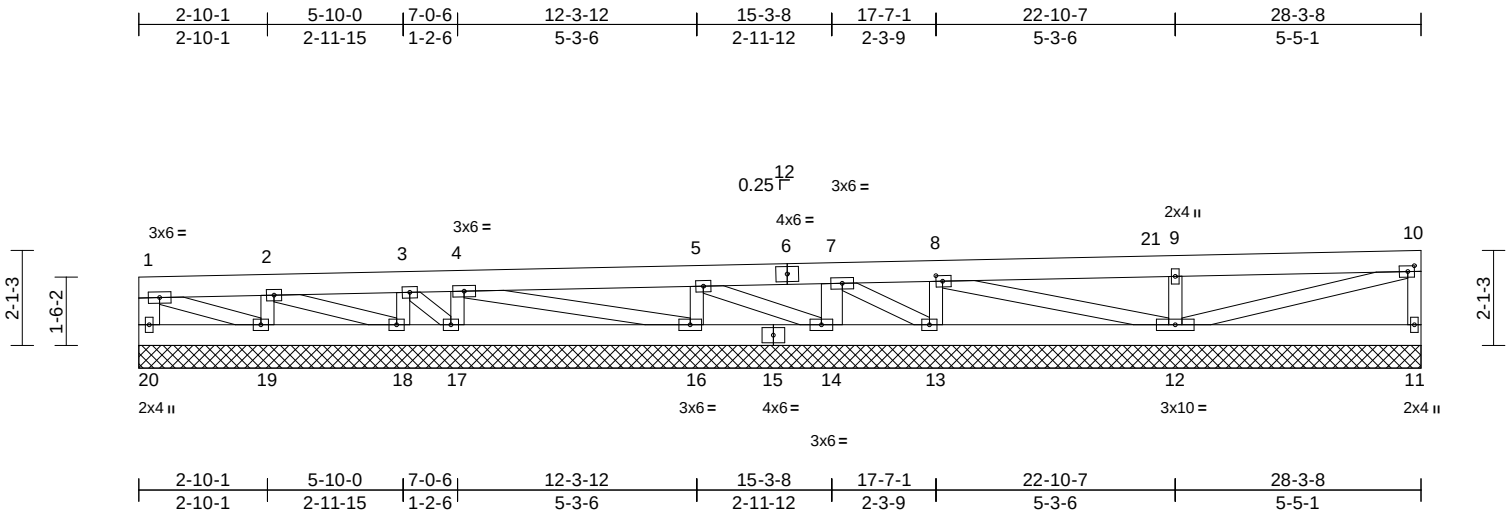
**LOAD CASE(S)** Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (lb/ft)
   Vert: 1-47=-80, 23-47=-90, 24-46=-20

| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934109 |
|---|---|---|---|---|---|
| 3871615 | M21 | Monopitch Girder | 1 | 1 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:13:53 Page: 1
ID:VowGosB0PdGAo3NSFgd_NNzjDrs-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f PRMU20240139




Scale = 1:50.8

Plate Offsets (X, Y): [8:0-1-12,0-1-8], [10:0-1-12,0-1-8]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.24 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 220/195 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.10 | Vert(TL) | n/a | - | n/a | 999 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.06 | Horiz(TL) | 0.00 | 12 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-SH | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 162 lb | FT = 10% |

**LUMBER**
TOP CHORD 2x6 DF No.2
BOT CHORD 2x6 DF No.2
WEBS 2x4 HF No.2 *Except* 14-7,20-1:2x6 DF No.2

**BRACING**
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 13-14,12-13.

**REACTIONS** (size) 11=28-3-8, 12=28-3-8, 13=28-3-8, 14=28-3-8, 16=28-3-8, 17=28-3-8, 18=28-3-8, 19=28-3-8, 20=28-3-8
Max Horiz 20=15 (LC 8)
Max Uplift 13=-30 (LC 8), 14=-205 (LC 8), 16=-25 (LC 8), 17=-25 (LC 8), 18=-7 (LC 8), 19=-18 (LC 8), 20=-5 (LC 8)
Max Grav 11=224 (LC 1), 12=663 (LC 1), 13=395 (LC 1), 14=433 (LC 2), 16=464 (LC 1), 17=456 (LC 1), 18=64 (LC 1), 19=324 (LC 1), 20=101 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-11/0, 2-3=-7/3, 3-4=-8/3, 4-5=-11/1, 5-7=-11/17, 7-8=-7/7, 8-9=-9/19, 9-10=-5/17
BOT CHORD 19-20=-23/9, 18-19=-19/10, 17-18=-12/5, 16-17=-11/7, 14-16=-11/7, 13-14=-16/0, 12-13=-5/0, 11-12=0/0
WEBS 2-19=-260/99, 3-18=-54/17, 4-17=-366/141, 5-16=-369/142, 8-13=-318/133, 7-14=-123/41, 9-12=-533/150, 10-12=-15/2, 8-12=-10/5, 7-13=-3/13, 5-14=-24/11, 4-16=0/0, 3-17=0/8, 1-19=0/11, 2-18=-9/7, 10-11=-183/40, 1-20=-82/29

**NOTES**

1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
3) Provide adequate drainage to prevent water ponding.
4) All plates are 3x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
8) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 5 lb uplift at joint 20, 18 lb uplift at joint 19, 7 lb uplift at joint 18, 25 lb uplift at joint 17, 25 lb uplift at joint 16, 30 lb uplift at joint 13 and 205 lb uplift at joint 14.
10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
11) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 301 lb down and 196 lb up at 15-5-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-21=-80, 10-21=-90, 11-20=-20
Concentrated Loads (lb)
Vert: 14=-207 (B)


February 22,2024




MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

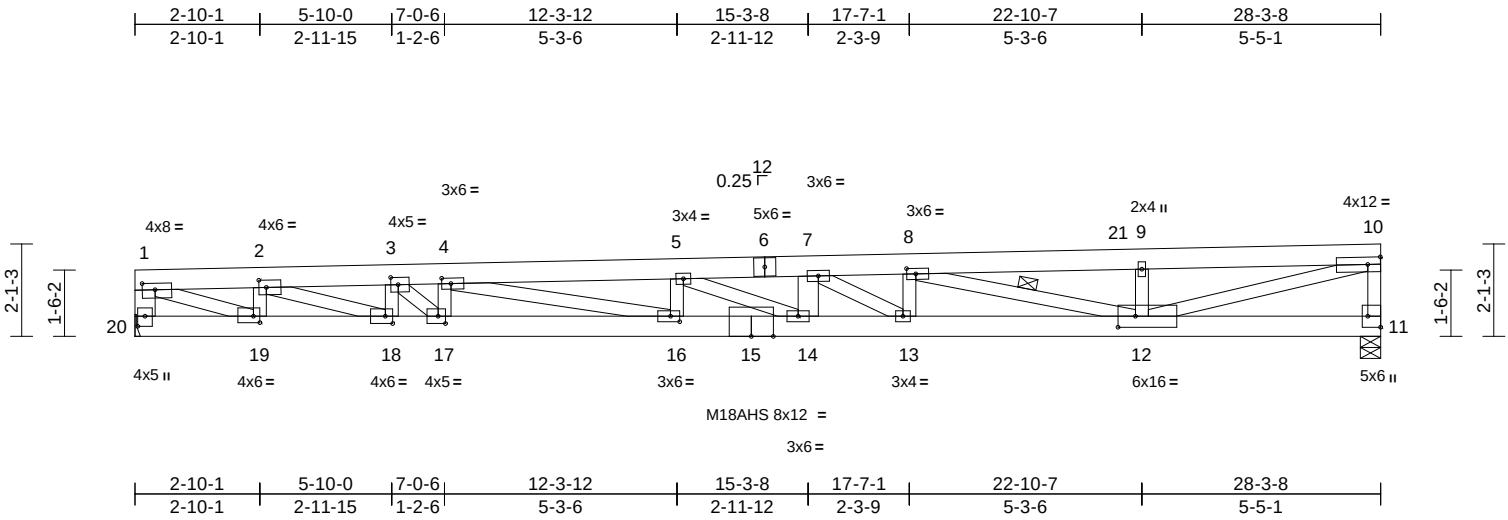
| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934110 |
|---|---|---|---|---|---|
| 3871615 | M22 | Common | 4 | 1 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:13:55 Page: 1

ID:T0YIrUJjTVHyEUAjJhMAkBzjDva-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

PRMU20240139




Scale = 1:52.3

Plate Offsets (X, Y): [1:0-3-8,0-1-12], [2:0-2-0,0-2-0], [3:0-2-0,0-2-0], [4:0-2-8,0-1-8], [8:0-2-8,0-1-8], [10:0-3-7,0-2-0], [11:Edge,0-3-8], [12:0-4-12,0-3-0], [16:0-2-8,0-1-8], [17:0-2-0,0-2-0], [18:0-2-0,0-2-0], [19:0-1-12,0-1-12], [20:0-2-12,0-2-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.81 | Vert(LL) | -0.57 | 14-16 | >588 | 240 | MT20 | 220/195 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.68 | Vert(CT) | -1.13 | 14-16 | >297 | 180 | M18AHS | 169/162 |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 1.00 | Horz(CT) | 0.11 | 11 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-SH | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 162 lb | FT = 10% |

**LUMBER**

TOP CHORD 2x6 DF No.2
BOT CHORD 2x6 DF 2400F 2.0E
WEBS 2x4 HF No.2 *Except* 20-1,14-7:2x6 DF No.2

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 1-10-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-10-9 oc bracing.
WEBS 1 Row at midpt 8-12

**REACTIONS** (size) 11=0-5-8, 20= Mechanical
Max Horiz 20=38 (LC 11)
Max Uplift 11=-241 (LC 12), 20=-256 (LC 8)
Max Grav 11=1672 (LC 1), 20=1593 (LC 1)

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

TOP CHORD 1-20=-1439/415, 1-2=-3295/938, 2-3=-5784/1694, 3-4=-7178/2155, 4-5=-8712/2831, 5-7=-8888/3103, 7-8=-7859/2592, 8-9=-4723/1371, 9-10=-4725/1376, 10-11=-1562/436
BOT CHORD 19-20=-170/390, 18-19=-988/3290, 17-18=-1741/5779, 16-17=-2202/7182, 14-16=-2864/8705, 13-14=-3127/8884, 12-13=-2609/7856, 11-12=-57/186
WEBS 2-19=-1174/385, 3-18=-1198/394, 4-17=-990/402, 5-16=-385/243, 7-14=-272/551, 8-13=-235/688, 9-12=-482/149, 10-12=-1384/4747, 8-12=-3297/1274, 7-13=-1306/603, 5-14=-381/530, 4-16=-687/1665, 3-17=-654/1960, 1-19=-890/3128, 2-18=-810/2654

**NOTES**

1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) interior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 256 lb uplift at joint 20 and 241 lb uplift at joint 11.
10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
11) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 301 lb down and 196 lb up at 15-5-8, and 317 lb down and 196 lb up at 15-5-8 on bottom chord. The design/ selection of such connection device(s) is the responsibility of others.
13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-21=-80, 10-21=-90, 11-20=-20
Concentrated Loads (lb)
Vert: 14=-415 (F=-207, B=-207)


February 22,2024




MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

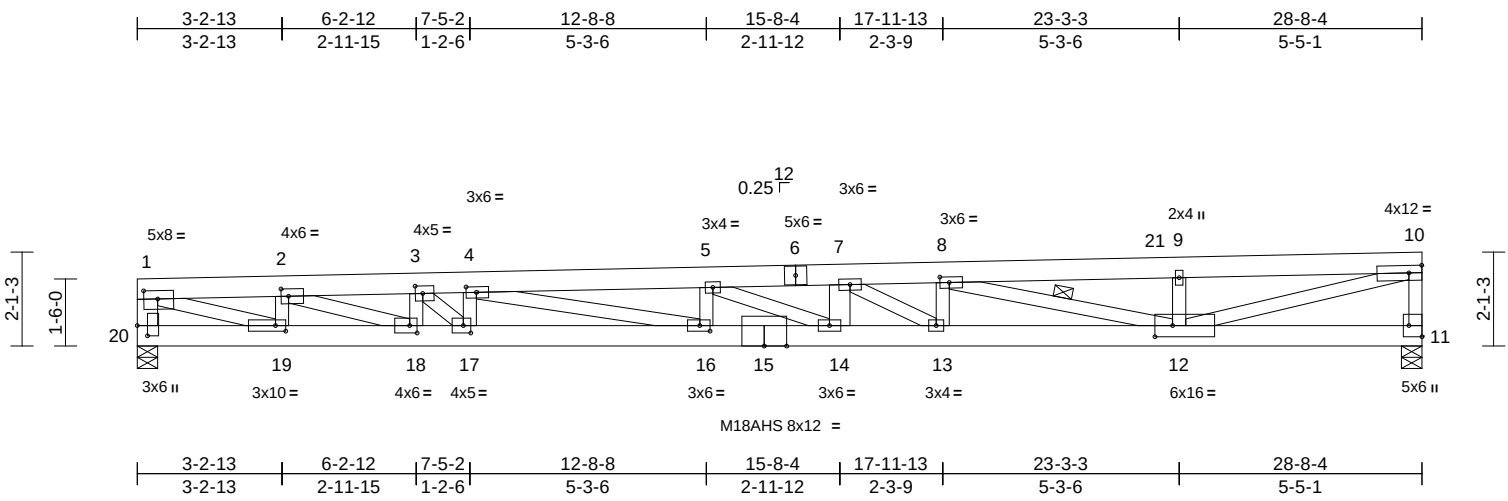
| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934111 |
|---|---|---|---|---|---|
| 3871615 | M23 | Monopitch Girder | 2 | 1 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:13:58 Page: 1

ID:4eBtRW8JiVqvLSIPbkgGFRzjE_z-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

PRMU20240139




Scale = 1:51.4

Plate Offsets (X, Y): [1:0-3-12,0-2-4], [2:0-2-0,0-2-0], [3:0-2-0,0-2-0], [4:0-2-12,0-1-8], [8:0-2-8,0-1-8], [10:0-3-7,0-2-0], [11:Edge,0-3-8], [12:0-4-12,0-3-0], [16:0-2-12,0-1-8], [17:0-2-0,0-2-0], [18:0-2-0,0-2-0], [19:0-2-12,0-1-8], [20:0-2-12,0-2-12]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.83 | Vert(LL) | -0.59 | 14-16 | >575 | 240 | MT20 | 220/195 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.69 | Vert(CT) | -1.17 | 14-16 | >290 | 180 | M18AHS | 169/162 |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 1.00 | Horz(CT) | 0.11 | 11 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-SH | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 164 lb | FT = 10% |

**LUMBER**

TOP CHORD 2x6 DF No.2
BOT CHORD 2x6 DF 2400F 2.0E
WEBS 2x4 HF No.2 *Except* 20-1,14-7:2x6 DF No.2

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 1-10-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-10-2 oc bracing.
WEBS 1 Row at midpt 8-12

**REACTIONS** (size) 11=0-5-8, 20=0-5-8
Max Horiz 20=41 (LC 9)
Max Uplift 11=-245 (LC 12), 20=-255 (LC 8)
Max Grav 11=1675 (LC 1), 20=1594 (LC 1)

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

TOP CHORD 1-20=-1418/410, 1-2=-3657/1038, 2-3=-6136/1796, 3-4=-7448/2239, 4-5=-8844/2885, 5-7=-8927/3140, 7-8=-7884/2618, 8-9=-4736/1381, 9-10=-4738/1386, 10-11=-1565/438
BOT CHORD 19-20=-187/455, 18-19=-1087/3651, 17-18=-1842/6131, 16-17=-2284/7451, 14-16=-2918/8836, 13-14=-3163/8923, 12-13=-2634/7882, 11-12=-57/186
WEBS 2-19=-1154/383, 3-18=-1148/382, 4-17=-937/390, 5-16=-351/235, 7-14=-280/559, 8-13=-241/694, 9-12=-483/148, 10-12=-1394/4760, 8-12=-3315/1290, 5-14=-397/517, 4-16=-657/1535, 3-17=-627/1845, 2-18=-813/2645, 1-19=-961/3384, 7-13=-1323/616

**NOTES**

1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 255 lb uplift at joint 20 and 245 lb uplift at joint 11.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 289 lb down and 196 lb up at 15-10-4, and 301 lb down and 196 lb up at 15-10-4 on bottom chord. The design/ selection of such connection device(s) is the responsibility of others.
12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-21=-80, 10-21=-90, 11-20=-20
Concentrated Loads (lb)
Vert: 14=-380 (F=-173, B=-207)


February 22,2024



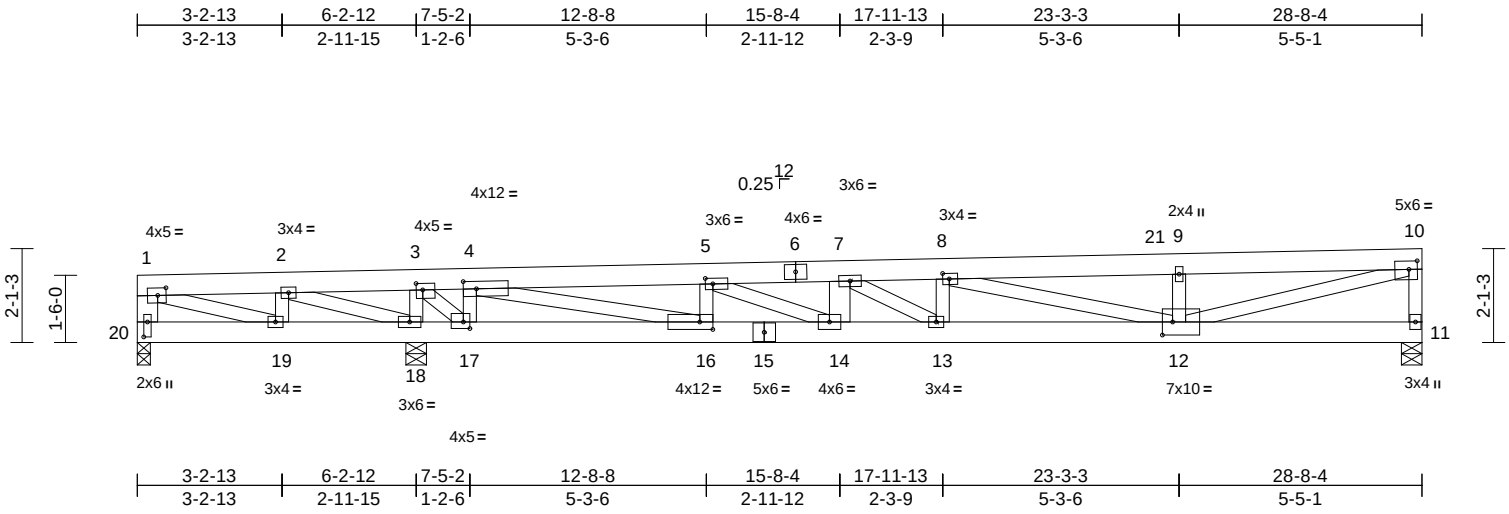

MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934112 |
|---|---|---|---|---|---|
| 3871615 | M24 | Monopitch Girder | 1 | 1 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:13:59 Page: 1
ID:B_AMYy7dCIfehrfrLnFBT7zjE5R-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

PRMU20240139




Scale = 1:51.4

Plate Offsets (X, Y): [1:0-2-4,0-2-0], [3:0-1-12,0-1-12], [4:0-3-8,0-2-0], [5:0-2-0,0-1-8], [8:0-1-12,0-1-8], [10:0-2-4,0-2-4], [12:0-2-12,0-3-8], [16:0-3-8,0-2-0], [17:0-1-12,0-1-12], [20:0-4-0,0-1-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.74 | Vert(LL) | -0.23 | 13-14 | >999 | 240 | MT20 | 220/195 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.79 | Vert(CT) | -0.45 | 13-14 | >601 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.82 | Horz(CT) | 0.02 | 11 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-SH | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 164 lb | FT = 10% |

**LUMBER**
TOP CHORD 2x6 DF No.2
BOT CHORD 2x6 DF No.2
WEBS 2x4 HF No.2 *Except* 20-1,7-14:2x6 DF No.2

**BRACING**
TOP CHORD Structural wood sheathing directly applied or 3-6-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-0-9 oc bracing.

**REACTIONS** (size) 11=0-5-8, 18=0-5-8, 20=0-3-8
Max Horiz 20=38 (LC 9)
Max Uplift 11=-136 (LC 12), 18=-514 (LC 12), 20=-440 (LC 2)
Max Grav 11=1144 (LC 1), 18=2549 (LC 1), 20=151 (LC 12)

**FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-20=-166/448, 1-2=-551/1476, 2-3=-1053/3006, 3-4=-501/1337, 4-5=-2466/903, 5-7=-4245/1641, 7-8=-4176/1461, 8-9=-2965/825, 9-10=-2967/830, 10-11=-1056/277
BOT CHORD 19-20=-136/75, 18-19=-1472/566, 17-18=-3001/1049, 16-17=-1333/492, 14-16=-912/2459, 13-14=-1647/4242, 12-13=-1463/4175, 11-12=-39/132
WEBS 10-12=-824/2962, 3-18=-1804/577, 2-19=-109/434, 1-19=-1442/545, 2-18=-1666/538, 4-17=-1456/549, 3-17=-779/2360, 5-16=-948/424, 8-13=-145/261, 9-12=-476/146, 8-12=-1371/662, 4-16=-1400/3888, 7-14=-341/270, 5-14=-803/1947, 7-13=-392/372

**NOTES**

1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) interior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 440 lb uplift at joint 20, 136 lb uplift at joint 11 and 514 lb uplift at joint 18.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 317 lb down and 196 lb up at 15-10-4, and 288 lb down and 196 lb up at 15-10-4 on bottom chord. The design/ selection of such connection device(s) is the responsibility of others.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-21=-80, 10-21=-90, 11-20=-20
Concentrated Loads (lb)
Vert: 14=-397 (F=-207, B=-189)


February 22,2024



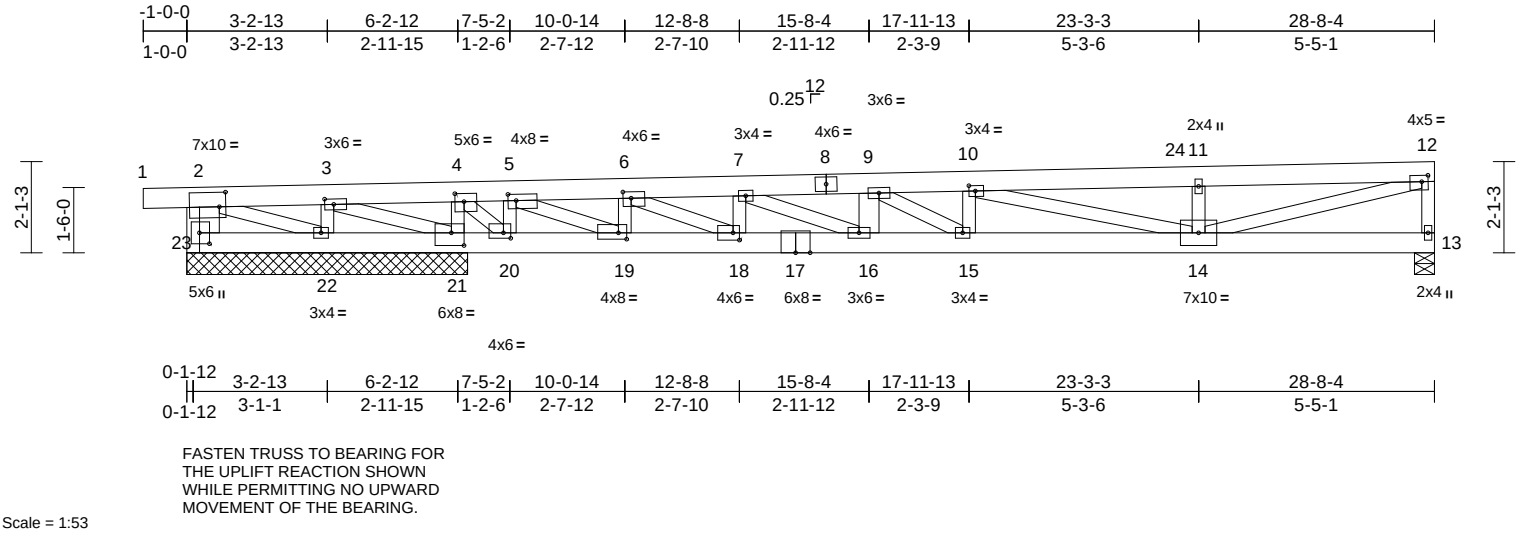

MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934113 |
|---|---|---|---|---|---|
| 3871615 | M25 | Monopitch Girder | 1 | 3 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:14:01 Page: 1
ID:iJdd6NPvGiISroFFvX7K6WzjCwC-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

PRMU20240139




FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

Scale = 1:53

Plate Offsets (X, Y): [2:0-1-12,0-4-0], [3:0-2-8,0-1-8], [4:0-2-8,0-2-4], [5:0-2-4,0-1-12], [6:0-2-4,0-1-12], [10:0-1-12,0-1-8], [12:0-1-12,0-1-12], [18:0-1-12,0-2-0], [19:0-2-4,0-1-12], [20:0-2-0,0-1-8], [21:0-3-8,0-3-8], [23:0-3-0,0-2-12]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.68 | Vert(LL) | -0.20 | 15-16 | >999 | 240 | MT20 | 185/148 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.85 | Vert(CT) | -0.41 | 15-16 | >654 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.97 | Horz(CT) | 0.03 | 13 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-SH | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 502 lb | FT = 10% |

**LUMBER**

TOP CHORD 2x6 DF No.2 *Except* 1-8:2x6 DF 2400F 2.0E
BOT CHORD 2x6 DF No.2
WEBS 2x4 HF No.2 *Except* 23-2,16-9:2x6 DF No.2, 19-5:2x4 DF No.2
OTHERS 2x4 HF No.2

**BRACING**

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

**REACTIONS** (size) 13=0-5-8, 21=6-5-8, 22=6-5-8, 23=6-5-8
Max Horiz 23=152 (LC 40)
Max Uplift 13=-200 (LC 42), 21=-1280 (LC 42), 22=-158 (LC 56), 23=-645 (LC 57)
Max Grav 13=2257 (LC 1), 21=16594 (LC 1), 22=251 (LC 37), 23=384 (LC 42)

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

TOP CHORD 2-23=-449/793, 1-2=0/3, 2-3=-2032/5938, 3-4=-4091/14776, 4-5=-2721/8537, 5-6=-6046/2007, 6-7=-13158/3544, 7-9=-14415/3868, 9-10=-11932/3199, 10-11=-6747/1994, 11-12=-6749/1567, 12-13=-2143/491
BOT CHORD 22-23=-1327/1193, 21-22=-6548/2771, 20-21=-14905/4208, 19-20=-8645/2776, 18-19=-1958/5946, 16-18=-3394/13012, 15-16=-3683/14384, 14-15=-2972/11924, 13-14=-56/230
WEBS 3-22=-319/955, 4-21=-10875/2283, 5-20=-7425/1612, 7-18=-3673/892, 10-15=-343/1580, 9-16=-368/193, 11-14=-522/160, 9-15=-3103/827, 10-14=-5377/1444, 12-14=-1593/6820, 7-16=-641/1610, 2-22=-5991/1919, 3-21=-9738/2453, 4-20=-2003/8970, 6-18=-1966/8363, 6-19=-6320/1388, 5-19=-3191/15085

**NOTES**

1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-4-0 oc, 2x6 - 2 rows staggered at 0-4-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
4) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
5) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
6) Provide adequate drainage to prevent water ponding.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
9) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
10) Bearing at joint(s) 23 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 200 lb uplift at joint 13, 158 lb uplift at joint 22, 1280 lb uplift at joint 21 and 645 lb uplift at joint 23.
12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.


February 22,2024

Continued on page 2



MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

13) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
14) This truss has been designed for a total drag load of 2600 lb. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 6-5-8 for 402.6 plf.
15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 288 lb down and 196 lb up at 15-10-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

**LOAD CASE(S)** Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (lb/ft)
   Vert: 1-2=-80, 2-9=-1082, 9-24=-80, 12-24=-90, 13-23=-20
   Concentrated Loads (lb)
   Vert: 16=-172 (F)

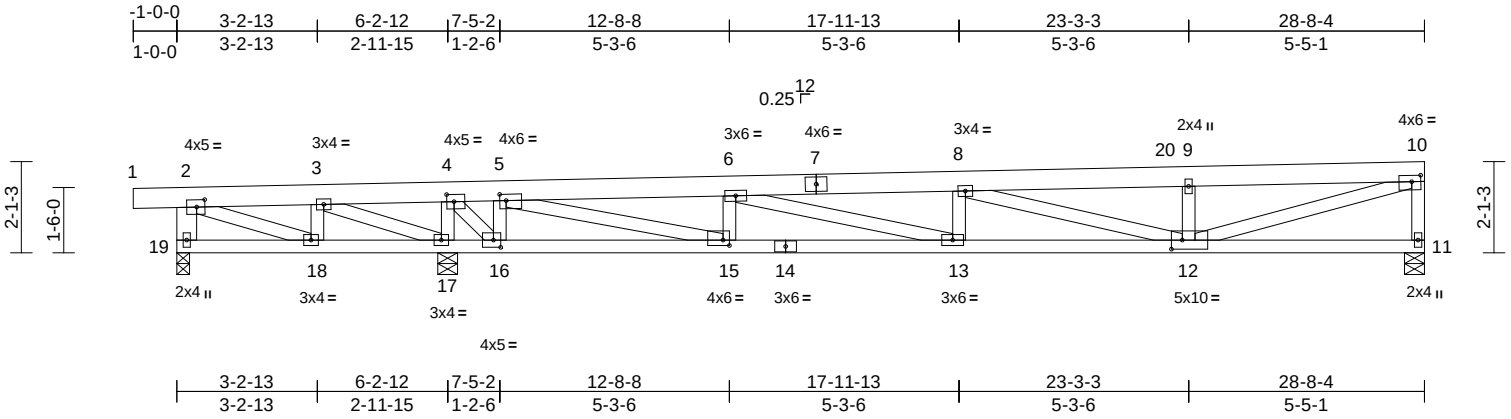



MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934114 |
|---|---|---|---|---|---|
| 3871615 | M26 | Monopitch | 2 | 1 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:14:04 Page: 1
ID:MyA_JaiNKsEywYZ4_MPV6TzjERx-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f PRMU20240139




Scale = 1:53

Plate Offsets (X, Y): [2:0-2-4,0-2-0], [4:0-2-0,0-2-0], [5:0-1-12,0-1-12], [10:0-2-8,0-1-12], [12:0-3-0,0-2-8], [15:0-1-12,0-1-8], [16:0-2-0,0-2-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.62 | Vert(LL) | -0.20 | 13-15 | >999 | 240 | MT20 | 185/148 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.80 | Vert(CT) | -0.41 | 13-15 | >654 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.66 | Horz(CT) | 0.03 | 11 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-SH | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 139 lb | FT = 10% |

**LUMBER**
TOP CHORD 2x6 DF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x4 HF No.2 *Except* 19-2:2x6 DF No.2

**BRACING**
TOP CHORD Structural wood sheathing directly applied or 4-0-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 3-5-13 oc bracing.

**REACTIONS** (size) 11=0-5-8, 17=0-5-8, 19=0-3-8
Max Horiz 19=43 (LC 11)
Max Uplift 11=-8 (LC 12), 17=-105 (LC 12), 19=-149 (LC 1)
Max Grav 11=1016 (LC 1), 17=2121 (LC 1), 19=44 (LC 18)

**FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-19=-20/192, 1-2=0/3, 2-3=-183/991, 3-4=-437/2362, 4-5=-212/1074, 5-6=-2010/373, 6-8=-3169/555, 8-9=-2472/386, 9-10=-2474/391, 10-11=-959/158
BOT CHORD 18-19=-76/42, 17-18=-988/189, 16-17=-2358/416, 15-16=-1071/190, 13-15=-371/2003, 12-13=-551/3165, 11-12=-18/86
WEBS 9-12=-475/141, 8-13=-200/109, 6-15=-659/199, 4-17=-1531/282, 5-16=-1247/289, 3-18=-23/394, 2-18=-993/194, 3-17=-1474/276, 4-16=-328/1863, 5-15=-550/3163, 6-13=-187/1202, 8-12=-725/180, 10-12=-383/2505

**NOTES**
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
3) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 149 lb uplift at joint 19, 8 lb uplift at joint 11 and 105 lb uplift at joint 17.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

**LOAD CASE(S)** Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-80, 2-20=-80, 10-20=-90, 11-19=-20


February 22,2024



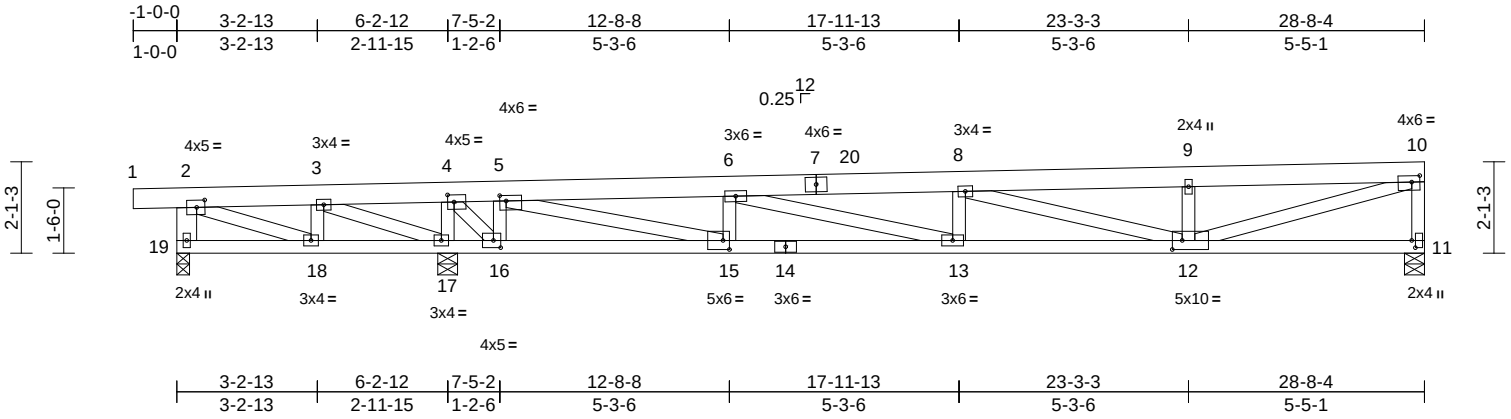

MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934115 |
|---|---|---|---|---|---|
| 3871615 | M27 | Monopitch | 3 | 1 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:14:05 Page: 1
ID:eei6w?kXibR2rHhQayS7s6zjCk9-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

PRMU20240139




Scale = 1:53

Plate Offsets (X, Y): [2:0-2-4,0-2-0], [4:0-1-12,0-2-0], [5:0-1-12,0-1-8], [10:0-2-4,0-1-12], [11:0-2-0,0-1-0], [12:0-2-12,0-2-8], [15:0-1-12,0-2-8], [16:0-2-0,0-2-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.64 | Vert(LL) | -0.20 | 13-15 | >999 | 240 | MT20 | 185/148 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.84 | Vert(CT) | -0.43 | 13-15 | >622 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.69 | Horz(CT) | 0.03 | 11 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-SH | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 139 lb | FT = 10% |

**LUMBER**
TOP CHORD 2x6 DF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x4 HF No.2 *Except* 19-2:2x6 DF No.2

**BRACING**
TOP CHORD Structural wood sheathing directly applied or 3-10-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 3-4-13 oc bracing.

**REACTIONS** (size) 11=0-5-8, 17=0-5-8, 19=0-3-8
Max Horiz 19=43 (LC 11)
Max Uplift 17=-47 (LC 12), 19=-171 (LC 1)
Max Grav 11=1052 (LC 1), 17=2179 (LC 1), 19=22 (LC 18)

**FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-19=0/214, 1-2=0/3, 2-3=-130/1044, 3-4=-340/2459, 4-5=-154/1132, 5-6=-2082/300, 6-8=-3351/374, 8-9=-2595/264, 9-10=-2596/269, 10-11=-994/122
BOT CHORD 18-19=-80/37, 17-18=-1041/136, 16-17=-2454/320, 15-16=-1129/132, 13-15=-298/2075, 12-13=-369/3347, 11-12=-17/87
WEBS 9-12=-498/118, 8-13=-230/79, 6-15=-691/167, 3-18=-5/413, 4-17=-1572/241, 5-16=-1287/249, 2-18=-1044/142, 3-17=-1521/229, 4-16=-272/1919, 5-15=-416/3297, 6-13=-73/1315, 8-12=-787/118, 10-12=-256/2633

**NOTES**
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
3) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 171 lb uplift at joint 19 and 47 lb uplift at joint 17.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

**LOAD CASE(S)** Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-80, 2-20=-80, 10-20=-90, 11-19=-20


February 22,2024




MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

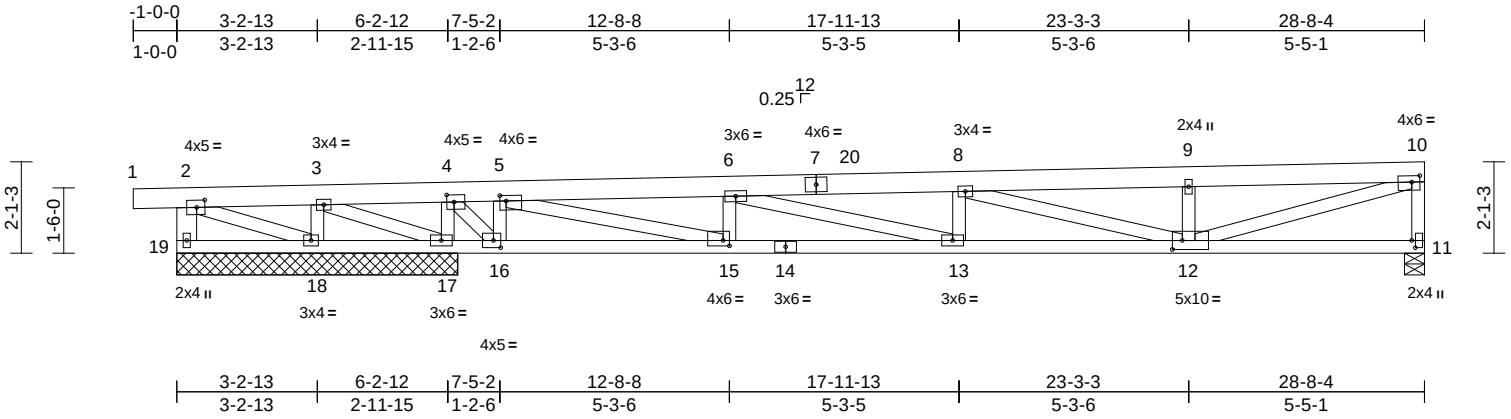
| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934116 |
|---|---|---|---|---|---|
| 3871615 | M28 | Monopitch | 1 | 1 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:14:07 Page: 1

ID:cpCqI3e4ALg?dA1YeMmPbjzjCgP-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

PRMU20240139




Scale = 1:53

Plate Offsets (X, Y): [2:0-2-4,0-2-0], [4:0-2-0,0-2-0], [5:0-1-12,0-1-8], [10:0-2-4,0-1-12], [11:0-2-0,0-1-0], [12:0-2-12,0-2-8], [15:0-1-12,0-1-8], [16:0-2-0,0-2-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.67 | Vert(LL) | -0.20 | 13-15 | >999 | 240 | MT20 | 185/148 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.84 | Vert(CT) | -0.43 | 13-15 | >626 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.70 | Horz(CT) | 0.03 | 11 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-SH | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 139 lb | FT = 10% |

**LUMBER**

TOP CHORD 2x6 DF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x4 HF No.2 *Except* 19-2:2x6 DF No.2

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 3-10-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 3-4-13 oc bracing.

**REACTIONS** (size) 11=0-5-8, 17=6-5-8, 18=6-5-8, 19=6-5-8
Max Horiz 19=43 (LC 9)
Max Uplift 17=-42 (LC 12), 18=-252 (LC 1), 19=-83 (LC 3)
Max Grav 11=1049 (LC 1), 17=2318 (LC 1), 18=-6 (LC 8), 19=94 (LC 18)

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

TOP CHORD 2-19=-66/138, 1-2=0/3, 2-3=-120/805, 3-4=-341/2471, 4-5=-156/1172, 5-6=-2054/298, 6-8=-3334/372, 8-9=-2586/263, 9-10=-2588/268, 10-11=-992/122
BOT CHORD 18-19=-61/42, 17-18=-803/115, 16-17=-2465/321, 15-16=-1169/135, 13-15=-297/2047, 12-13=-369/3330, 11-12=-17/87
WEBS 9-12=-498/118, 8-13=-233/79, 6-15=-694/167, 3-18=-11/573, 4-17=-1597/242, 5-16=-1263/247, 5-15=-417/3310, 2-18=-822/133, 3-17=-1789/240, 4-16=-269/1876, 6-13=-74/1326, 8-12=-777/117, 10-12=-256/2624

**NOTES**

1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
3) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 83 lb uplift at joint 19, 252 lb uplift at joint 18 and 42 lb uplift at joint 17.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

**LOAD CASE(S)** Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-80, 2-20=-80, 10-20=-90, 11-19=-20


February 22,2024




MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

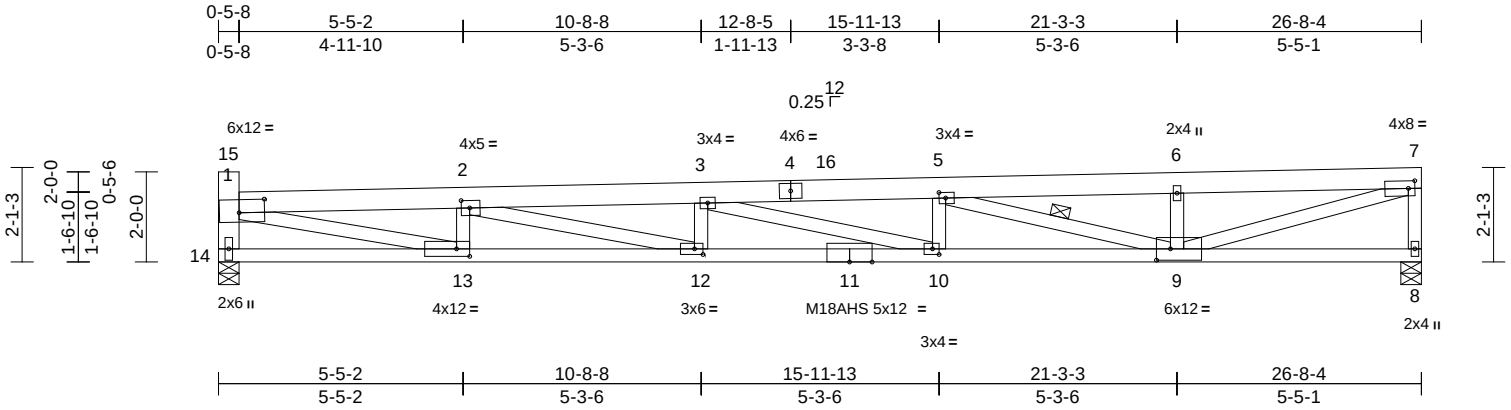
| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934117 |
|---|---|---|---|---|---|
| 3871615 | M29 | Monopitch | 5 | 1 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:14:08 Page: 1

ID:dWU5zChi8a5t1I1Db3pGUZzjCdl-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

PRMU20240139




Scale = 1:51.1

Plate Offsets (X, Y): [1:0-6-12,0-3-8], [2:0-2-4,0-2-0], [5:0-1-12,0-1-8], [7:0-1-12,0-2-0], [9:0-3-12,0-3-0], [10:0-1-12,0-1-8], [12:0-2-4,0-1-8], [13:0-3-8,0-2-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.56 | Vert(LL) | -0.48 | 10-12 | >664 | 240 | MT20 | 185/148 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.95 | Vert(CT) | -1.01 | 10-12 | >315 | 180 | M18AHS | 169/162 |
| TCDL | 15.0 | Rep Stress Incr | YES | WB | 0.84 | Horz(CT) | 0.13 | 8 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-SH | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 132 lb | FT = 10% |

**LUMBER**

TOP CHORD 2x6 DF No.2
BOT CHORD 2x4 DF 1800F 1.6E
WEBS 2x4 HF No.2 *Except* 15-14:2x6 DF No.2

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 2-6-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 5-9

**REACTIONS** (size) 8=0-5-8, 14=0-5-8
Max Horiz 14=43 (LC 9)
Max Uplift 14=-41 (LC 8)
Max Grav 8=1425 (LC 1), 14=1341 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-4507/781, 2-3=-6287/991, 3-5=-5913/812, 5-6=-3821/474, 6-7=-3823/478, 1-14=-1358/267, 1-15=0/0
BOT CHORD 13-14=-182/610, 12-13=-800/4500, 10-12=-1006/6282, 9-10=-822/5909, 8-9=0/0
WEBS 7-8=-1377/195, 2-13=-793/220, 5-10=0/265, 6-9=-532/130, 5-9=-2175/357, 3-12=-326/120, 2-12=-244/1835, 1-13=-667/3987, 7-9=-504/4014, 3-10=-387/190

**NOTES**

1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) interior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 41 lb uplift at joint 14.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

**LOAD CASE(S)** Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-16=-80, 7-16=-90, 8-14=-20


February 22,2024



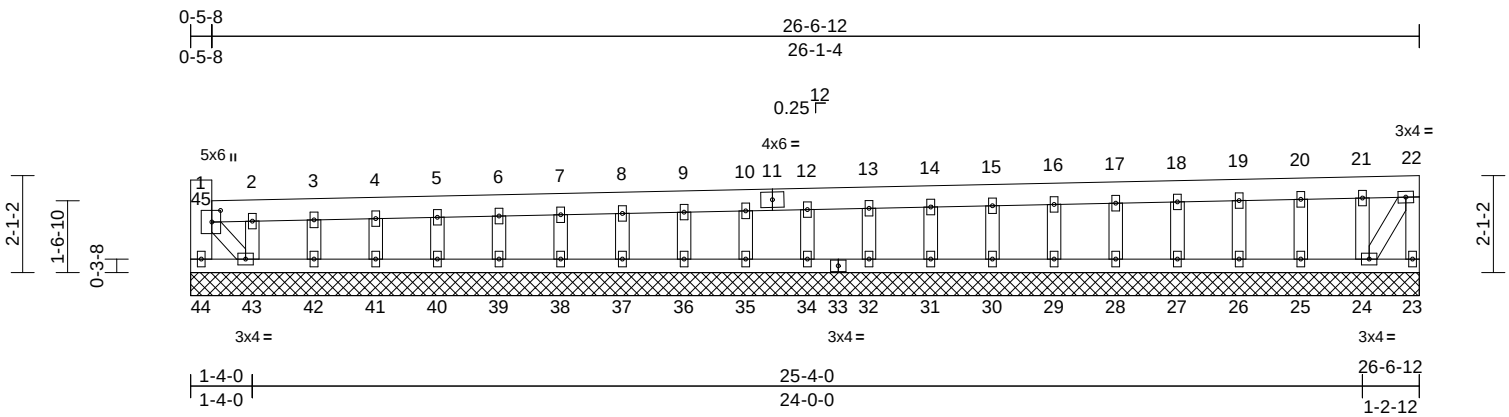

MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934118 |
|---|---|---|---|---|---|
| 3871615 | M30 | Monopitch | 1 | 1 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:14:09 Page: 1

ID:GVewJRxxDJLThiR3MWWRRgzjCRp-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?s PRMU20240139




Scale = 1:49.8

Plate Offsets (X, Y): [1:0-3-0,0-2-4]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.01 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 220/195 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.01 | Vert(TL) | n/a | - | n/a | 999 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.01 | Horiz(TL) | 0.00 | 24 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-SH | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 119 lb | FT = 10% |

**LUMBER**

TOP CHORD 2x6 DF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x4 HF No.2 *Except* 45-44:2x6 DF No.2
OTHERS 2x4 HF No.2

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 10-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except:
10-0-0 oc bracing: 43-44,23-24.

**REACTIONS** (size) 23=26-6-12, 24=26-6-12, 25=26-6-12, 26=26-6-12, 27=26-6-12, 28=26-6-12, 29=26-6-12, 30=26-6-12, 31=26-6-12, 32=26-6-12, 34=26-6-12, 35=26-6-12, 36=26-6-12, 37=26-6-12, 38=26-6-12, 39=26-6-12, 40=26-6-12, 41=26-6-12, 42=26-6-12, 43=26-6-12, 44=26-6-12

Max Horiz 44=14 (LC 8)

Max Uplift 23=-3 (LC 8), 34=-1 (LC 8), 35=-8 (LC 8), 36=-8 (LC 8), 37=-8 (LC 8), 38=-8 (LC 8), 39=-8 (LC 8), 40=-8 (LC 8), 41=-8 (LC 8), 42=-9 (LC 8), 43=-19 (LC 8)

Max Grav 23=45 (LC 1), 24=144 (LC 1), 25=151 (LC 1), 26=147 (LC 1), 27=147 (LC 1), 28=147 (LC 1), 29=147 (LC 1), 30=147 (LC 1), 31=147 (LC 1), 32=147 (LC 1), 34=140 (LC 1), 35=133 (LC 1), 36=133 (LC 1), 37=133 (LC 1), 38=133 (LC 1), 39=133 (LC 1), 40=133 (LC 1), 41=133 (LC 1), 42=137 (LC 1), 43=132 (LC 1), 44=42 (LC 1)

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

TOP CHORD 1-2=-18/8, 2-3=-17/8, 3-4=-16/7, 4-5=-15/7, 5-6=-13/6, 6-7=-12/6, 7-8=-11/5, 8-9=-10/5, 9-10=-9/4, 10-12=-8/4, 12-13=-7/4, 13-14=-6/4, 14-15=-5/4, 15-16=-3/4, 16-17=-2/4, 17-18=-1/4, 18-19=0/4, 19-20=0/4, 20-21=-1/4, 21-22=-1/4

BOT CHORD 43-44=-22/9, 42-43=-4/1, 41-42=-4/1, 40-41=-4/1, 39-40=-4/1, 38-39=-4/1, 37-38=-4/1, 36-37=-4/1, 35-36=-4/1, 34-35=-4/1, 32-34=-4/1, 31-32=-4/1, 30-31=-4/1, 29-30=-4/1, 28-29=-4/1, 27-28=-4/1, 26-27=-4/1, 25-26=-4/1, 24-25=-4/1, 23-24=0/0

WEBS 1-44=-34/0, 1-45=0/0, 2-43=-102/40, 3-42=-110/44, 4-41=-106/43, 5-40=-107/43, 6-39=-107/43, 7-38=-107/43, 8-37=-107/43, 9-36=-107/43, 10-35=-106/43, 12-34=-113/36, 13-32=-120/29, 14-31=-120/29, 15-30=-120/29, 16-29=-120/29, 17-28=-120/29, 18-27=-120/29, 19-26=-120/29, 20-25=-124/30, 21-24=-113/28, 1-43=-12/27, 22-23=-37/16, 22-24=-7/2

**NOTES**

1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
4) Provide adequate drainage to prevent water ponding.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
8) Gable studs spaced at 1-4-0 oc.


February 22,2024

Continued on page 2



MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
11) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 19 lb uplift at joint 43, 9 lb uplift at joint 42, 8 lb uplift at joint 41, 8 lb uplift at joint 40, 8 lb uplift at joint 39, 8 lb uplift at joint 38, 8 lb uplift at joint 37, 8 lb uplift at joint 36, 8 lb uplift at joint 35, 1 lb uplift at joint 34 and 3 lb uplift at joint 23.
13) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
14) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

**LOAD CASE(S)** Standard

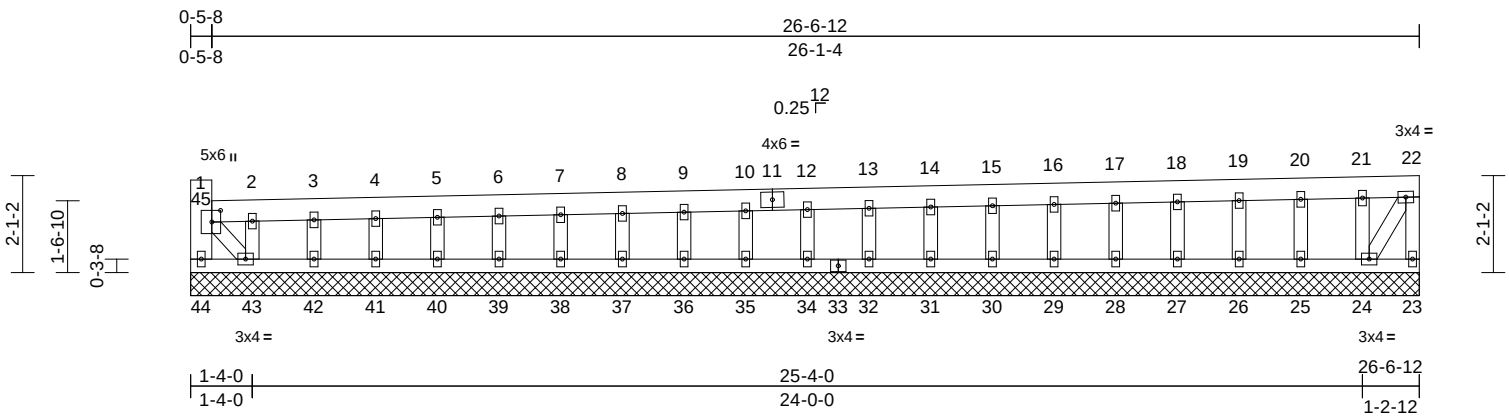
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (lb/ft)
   Vert: 1-12=-80, 12-22=-90, 23-44=-20

| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934119 |
|---|---|---|---|---|---|
| 3871615 | M31 | Monopitch | 1 | 1 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:14:10 Page: 1
ID:X8II6izicEpcdfUkJn5CLIzjCUM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

PRMU20240139




Scale = 1:49.8

Plate Offsets (X, Y): [1:0-3-0,0-2-4]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.01 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 220/195 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.01 | Vert(TL) | n/a | - | n/a | 999 | | |
| TCDL | 15.0 | Rep Stress Incr | YES | WB | 0.01 | Horiz(TL) | 0.00 | 24 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-SH | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 119 lb | FT = 10% |

**LUMBER**
TOP CHORD 2x6 DF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x4 HF No.2 *Except* 44-45:2x6 DF No.2
OTHERS 2x4 HF No.2

**BRACING**
TOP CHORD Structural wood sheathing directly applied or 10-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except:
10-0-0 oc bracing: 43-44,23-24.

**REACTIONS** (size) 23=26-6-12, 24=26-6-12, 25=26-6-12, 26=26-6-12, 27=26-6-12, 28=26-6-12, 29=26-6-12, 30=26-6-12, 31=26-6-12, 32=26-6-12, 34=26-6-12, 35=26-6-12, 36=26-6-12, 37=26-6-12, 38=26-6-12, 39=26-6-12, 40=26-6-12, 41=26-6-12, 42=26-6-12, 43=26-6-12, 44=26-6-12
Max Horiz 44=14 (LC 8)
Max Uplift 23=-7 (LC 8), 24=-3 (LC 8), 25=-8 (LC 8), 26=-8 (LC 8), 27=-8 (LC 8), 28=-8 (LC 8), 29=-8 (LC 8), 30=-8 (LC 8), 31=-8 (LC 8), 32=-8 (LC 8), 34=-8 (LC 8), 35=-8 (LC 8), 36=-8 (LC 8), 37=-8 (LC 8), 38=-8 (LC 8), 39=-8 (LC 8), 40=-8 (LC 8), 41=-8 (LC 8), 42=-9 (LC 8), 43=-19 (LC 8)
Max Grav 23=41 (LC 1), 24=131 (LC 1), 25=137 (LC 1), 26=133 (LC 1), 27=133 (LC 1), 28=133 (LC 1), 29=133 (LC 1), 30=133 (LC 1), 31=133 (LC 1), 32=133 (LC 1), 34=133 (LC 1), 35=133 (LC 1), 36=133 (LC 1), 37=133 (LC 1), 38=133 (LC 1), 39=133 (LC 1), 40=133 (LC 1), 41=133 (LC 1), 42=137 (LC 1), 43=132 (LC 1), 44=42 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-18/8, 2-3=-17/7, 3-4=-16/7, 4-5=-15/6, 5-6=-14/6, 6-7=-13/5, 7-8=-11/5, 8-9=-10/5, 9-10=-9/4, 10-12=-8/4, 12-13=-7/3, 13-14=-6/3, 14-15=-5/3, 15-16=-4/3, 16-17=-2/3, 17-18=-1/3, 18-19=0/3, 19-20=0/3, 20-21=-1/3, 21-22=-1/3
BOT CHORD 43-44=-22/9, 42-43=-4/1, 41-42=-4/1, 40-41=-4/1, 39-40=-4/1, 38-39=-4/1, 37-38=-4/1, 36-37=-4/1, 35-36=-4/1, 34-35=-4/1, 32-34=-4/1, 31-32=-4/1, 30-31=-4/1, 29-30=-4/1, 28-29=-4/1, 27-28=-4/1, 26-27=-4/1, 25-26=-4/1, 24-25=-4/1, 23-24=0/0
WEBS 1-44=-34/0, 1-45=0/0, 2-43=-102/40, 3-42=-110/44, 4-41=-106/43, 5-40=-107/43, 6-39=-107/43, 7-38=-107/43, 8-37=-107/43, 9-36=-107/43, 10-35=-107/43, 12-34=-107/43, 13-32=-107/43, 14-31=-107/43, 15-30=-107/43, 16-29=-107/43, 17-28=-107/43, 18-27=-107/43, 19-26=-107/43, 20-25=-110/44, 21-24=-100/41, 1-43=-11/27, 22-23=-33/20, 22-24=-7/2

**NOTES**
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
4) Provide adequate drainage to prevent water ponding.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
8) Gable studs spaced at 1-4-0 oc.


February 22,2024

Continued on page 2



MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934119 |
|---|---|---|---|---|---|
| 3871615 | M31 | Monopitch | 1 | 1 | Job Reference (optional) |



9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
11) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 19 lb uplift at joint 43, 9 lb uplift at joint 42, 8 lb uplift at joint 41, 8 lb uplift at joint 40, 8 lb uplift at joint 39, 8 lb uplift at joint 38, 8 lb uplift at joint 37, 8 lb uplift at joint 36, 8 lb uplift at joint 35, 8 lb uplift at joint 34, 8 lb uplift at joint 32, 8 lb uplift at joint 31, 8 lb uplift at joint 30, 8 lb uplift at joint 29, 8 lb uplift at joint 28, 8 lb uplift at joint 27, 8 lb uplift at joint 26, 8 lb uplift at joint 25, 3 lb uplift at joint 24 and 7 lb uplift at joint 23.
13) 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



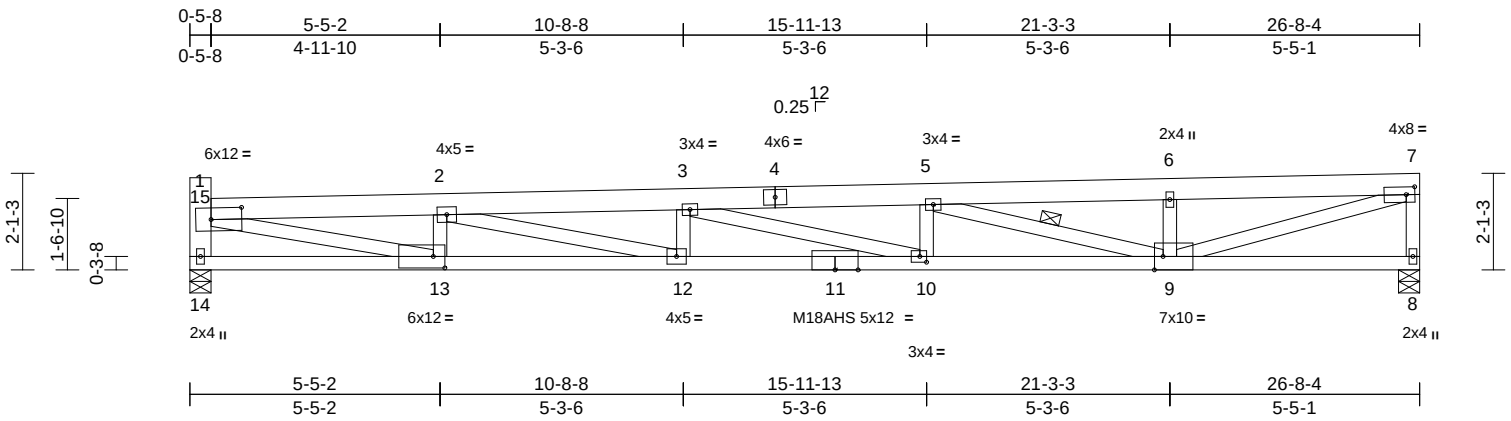
MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934120 |
|---|---|---|---|---|---|
| 3871615 | M32 | Monopitch | 4 | 1 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:14:11 Page: 1
ID:VdRlj7l4fKzych4FssdOtizjCXp-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

PRMU20240139




Scale = 1:50

Plate Offsets (X, Y): [1:0-8-0,0-3-0], [7:0-2-4,0-2-0], [9:0-2-4,Edge], [10:0-1-12,0-1-8], [13:0-3-0,0-3-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.50 | Vert(LL) | -0.47 | 10-12 | >670 | 240 | MT20 | 220/195 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.90 | Vert(CT) | -0.95 | 10-12 | >332 | 180 | M18AHS | 169/162 |
| TCDL | 15.0 | Rep Stress Incr | YES | WB | 0.92 | Horz(CT) | 0.12 | 8 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-SH | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 132 lb | FT = 10% |

**LUMBER**
TOP CHORD 2x6 DF No.2
BOT CHORD 2x4 DF 1800F 1.6E
WEBS 2x4 HF No.2 *Except* 14-15:2x6 DF No.2

**BRACING**
TOP CHORD Structural wood sheathing directly applied or 2-8-10 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-10-0 oc bracing.
WEBS 1 Row at midpt 5-9

**REACTIONS** (size) 8=0-5-8, 14=0-5-8
Max Horiz 14=14 (LC 8)
Max Uplift 8=-78 (LC 8), 14=-76 (LC 8)
Max Grav 8=1316 (LC 1), 14=1316 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-4252/847, 2-3=-5909/1178, 3-5=-5517/1100, 5-6=-3537/704, 6-7=-3539/709
BOT CHORD 13-14=-22/9, 12-13=-866/4247, 10-12=-1193/5904, 9-10=-1110/5512, 8-9=0/0
WEBS 1-14=-1261/284, 1-15=0/0, 2-13=-853/264, 3-12=-299/141, 5-10=0/276, 6-9=-471/190, 7-8=-1268/288, 7-9=-747/3716, 5-9=-2057/416, 3-10=-405/85, 2-12=-336/1705, 1-13=-865/4354

**NOTES**
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 76 lb uplift at joint 14 and 78 lb uplift at joint 8.
9) 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


February 22,2024



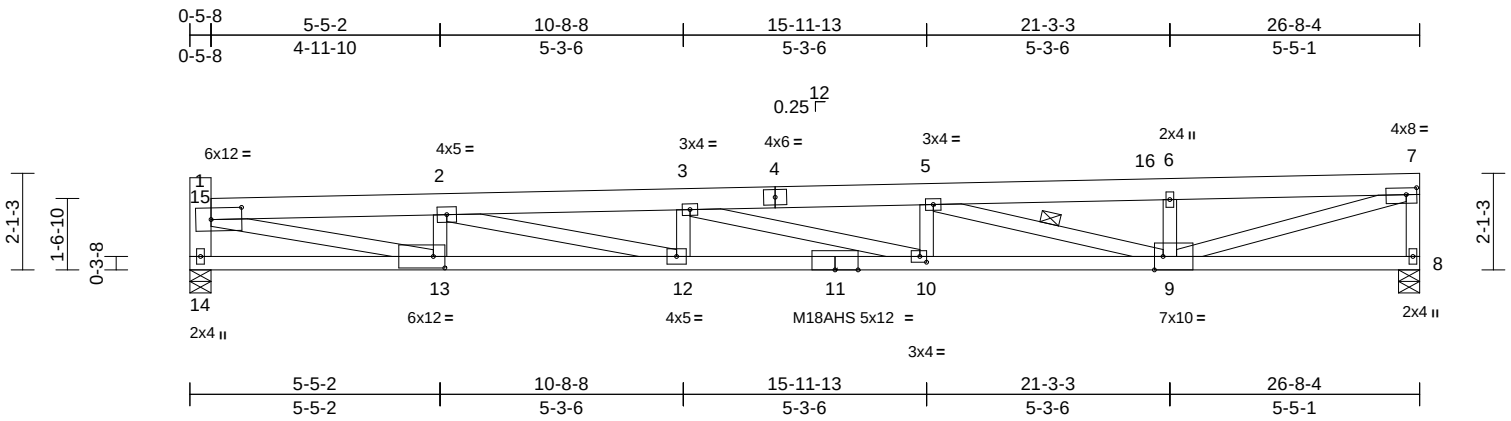
MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934121 |
|---|---|---|---|---|---|
| 3871615 | M33 | Monopitch | 2 | 1 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:14:12 Page: 1
ID:FlFMylg8hx9ne1_FOB2fwdzjCN?-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

PRMU20240139




Scale = 1:50

Plate Offsets (X, Y): [1:0-8-0,0-3-0], [7:0-2-12,0-1-12], [9:0-2-4,Edge], [10:0-1-12,0-1-8], [13:0-3-0,0-3-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.51 | Vert(LL) | -0.47 | 10-12 | >672 | 240 | MT20 | 220/195 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.90 | Vert(CT) | -0.96 | 10-12 | >330 | 180 | M18AHS | 169/162 |
| TCDL | 15.0 | Rep Stress Incr | YES | WB | 0.92 | Horz(CT) | 0.12 | 8 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IBC2018/TPI2014 | Matrix-SH | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 132 lb | FT = 10% |

**LUMBER**
TOP CHORD 2x6 DF No.2
BOT CHORD 2x4 DF 1800F 1.6E
WEBS 2x4 HF No.2 *Except* 14-15:2x6 DF No.2

**BRACING**
TOP CHORD Structural wood sheathing directly applied or 2-8-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-10-13 oc bracing.
WEBS 1 Row at midpt 5-9

**REACTIONS** (size) 8=0-5-8, 14=0-5-8
Max Horiz 14=35 (LC 11)
Max Uplift 8=-26 (LC 12), 14=-71 (LC 8)
Max Grav 8=1367 (LC 1), 14=1322 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-4277/829, 2-3=-5955/1143, 3-5=-5586/1053, 5-6=-3601/632, 6-7=-3603/637, 7-8=-1305/238
BOT CHORD 13-14=-52/38, 12-13=-866/4272, 10-12=-1168/5950, 9-10=-1066/5581, 8-9=-24/108
WEBS 1-14=-1268/279, 1-15=0/0, 2-13=-858/260, 3-12=-305/137, 6-9=-474/148, 7-9=-644/3670, 5-10=0/275, 1-13=-847/4379, 2-12=-318/1726, 3-10=-381/105, 5-9=-2063/447

**NOTES**
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 26 lb uplift at joint 8 and 71 lb uplift at joint 14.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

**LOAD CASE(S)** Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-16=-80, 7-16=-90, 8-14=-20


February 22,2024

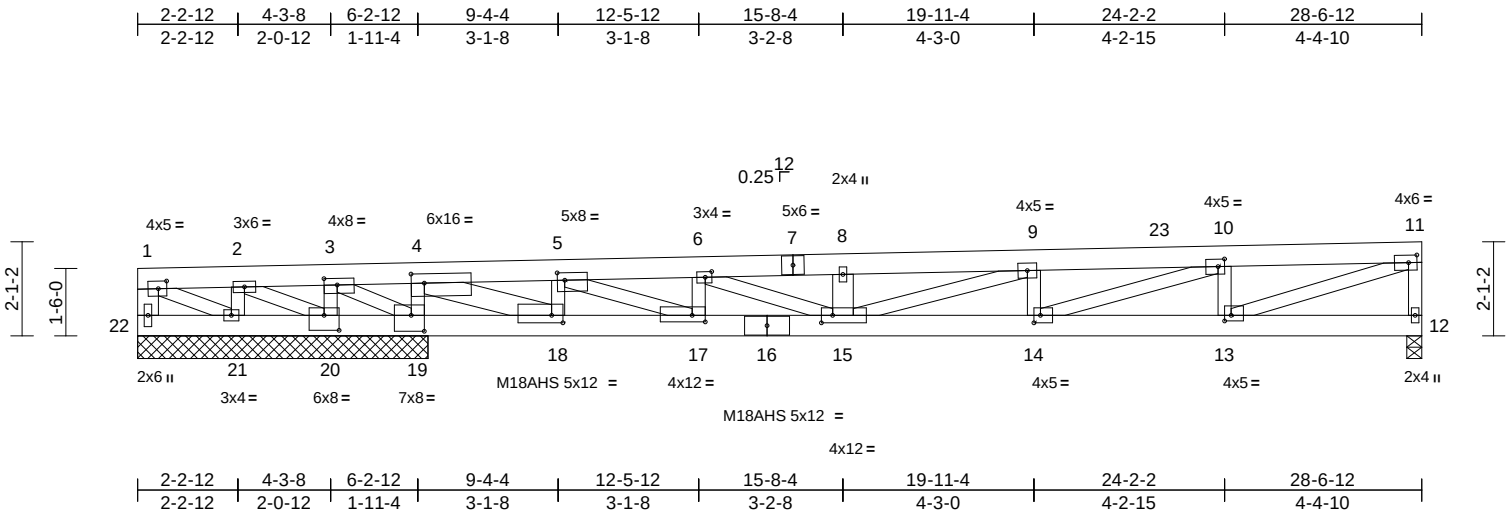


MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934122 |
|---|---|---|---|---|---|
| 3871615 | M34 | Monopitch | 1 | 2 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:14:13 Page: 1
ID:PhMaHiHkJSB3T8GVop16hqzjFK?-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f PRMU20240139




Scale = 1:51.3

Plate Offsets (X, Y): [1:0-2-4,0-2-0], [3:0-3-8,0-1-12], [4:0-3-8,0-2-8], [5:0-2-0,0-2-0], [6:0-1-12,0-1-8], [10:0-1-12,0-2-0], [11:0-2-4,0-2-0], [13:0-1-12,0-1-8], [14:0-1-12,0-2-0], [15:0-3-0,0-2-0], [17:0-3-8,0-1-12], [18:0-3-0,0-2-0], [19:0-3-8,0-4-4], [20:0-4-0,0-4-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.88 | Vert(LL) | -0.24 | 14-15 | >999 | 240 | MT20 | 220/195 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.61 | Vert(CT) | -0.47 | 14-15 | >564 | 180 | M18AHS | 169/162 |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.95 | Horz(CT) | 0.02 | 12 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-SH | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 334 lb | FT = 10% |

**LUMBER**
TOP CHORD 2x6 DF No.2 *Except* 1-7:2x6 DF 2400F 2.0E
BOT CHORD 2x6 DF 2400F 2.0E
WEBS 2x4 HF No.2 *Except* 22-1,15-8:2x6 DF No.2, 4-18:2x6 DF 2400F 2.0E, 5-17:2x4 DF No.2

**BRACING**
TOP CHORD Structural wood sheathing directly applied or 3-8-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-0-0 oc bracing.

**REACTIONS** (size) 12=0-4-0, 19=6-5-8, 20=6-5-8, 21=6-5-8, 22=6-5-8
Max Horiz 22=214 (LC 35)
Max Uplift 12=-143 (LC 41), 19=-1045 (LC 41), 20=-2974 (LC 1), 21=-246 (LC 41), 22=-1071 (LC 56)
Max Grav 12=2010 (LC 1), 19=16421 (LC 1), 20=183 (LC 32), 21=1982 (LC 56), 22=440 (LC 41)

**FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-22=-481/886, 1-2=-1209/3126, 2-3=-2273/7203, 3-4=-3724/14163, 4-5=-2333/1442, 5-6=-10826/3044, 6-8=-11887/3121, 8-9=-11856/2736, 9-10=-8805/1981, 10-11=-4782/1036, 11-12=-1899/403
BOT CHORD 21-22=-1186/1020, 20-21=-3640/1832, 19-20=-7822/3026, 18-19=-14190/3982, 17-18=-1435/2260, 15-17=-2900/10659, 14-15=-2029/8801, 13-14=-1027/4779, 12-13=-44/162
WEBS 1-21=-3208/1226, 2-21=-293/265, 2-20=-4782/1422, 4-19=-10163/2034, 8-15=-1612/371, 3-20=-853/3564, 3-19=-8265/1950, 9-15=-941/3445, 11-13=-1053/4948, 9-14=-1278/404, 10-14=-1067/4280, 10-13=-1760/446, 4-18=-3344/16516, 5-18=-6410/1336, 5-17=-2075/9930, 6-17=-3638/801, 6-15=-434/1371

**NOTES**
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Web connected as follows: 2x4 - 2 rows staggered at 0-3-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
4) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
9) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1071 lb uplift at joint 22, 143 lb uplift at joint 12, 246 lb uplift at joint 21, 2974 lb uplift at joint 20 and 1045 lb uplift at joint 19.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.


February 22,2024

Continued on page 2



MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

13) This truss has been designed for a total drag load of 3000 lb. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 6-5-8 for 464.5 plf.
14) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.

**LOAD CASE(S)** Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (lb/ft)
   Vert: 1-8=-966, 8-23=-80, 11-23=-90, 12-22=-20

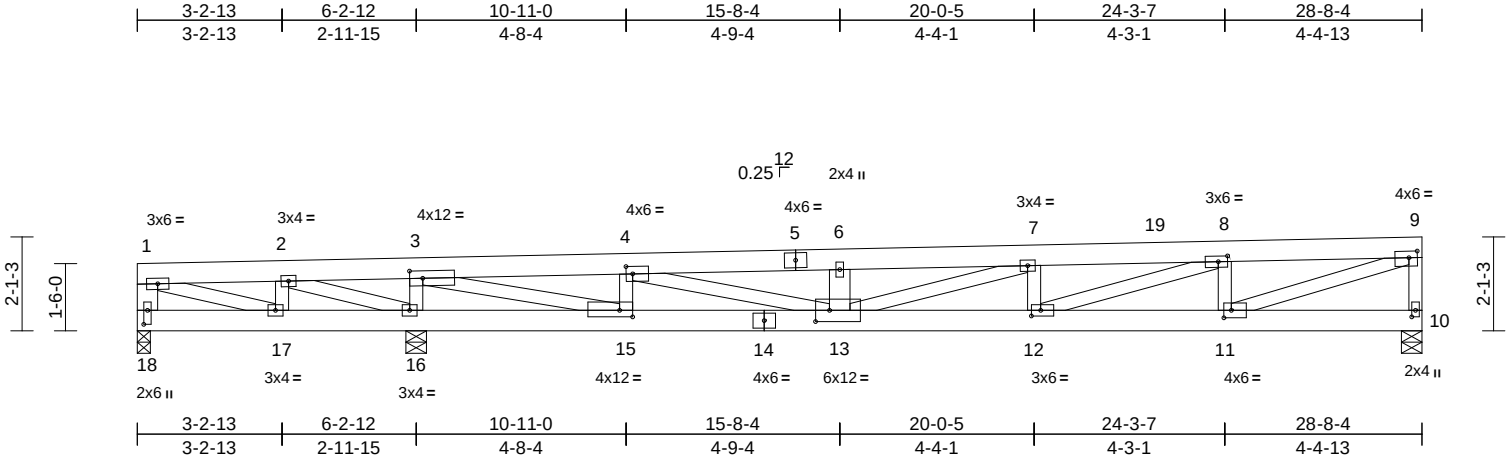



MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934123 |
|---|---|---|---|---|---|
| 3871615 | M35 | Monopitch Girder | 7 | 1 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:14:18 Page: 1
ID:tcXkMckfjgLYFWDHGmgBWOzjGQQ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f PRMU20240139




Scale = 1:51.4

Plate Offsets (X, Y): [3:0-3-8,0-2-0], [4:0-1-12,0-2-0], [8:0-2-8,0-1-8], [9:0-2-4,0-1-12], [10:0-1-12,0-1-0], [11:0-2-0,0-2-0], [12:0-2-8,0-1-8], [13:0-3-12,0-3-0], [15:0-3-8,0-1-12], [18:0-3-12,0-1-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.89 | Vert(LL) | -0.23 | 12-13 | >999 | 240 | MT20 | 220/195 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.78 | Vert(CT) | -0.46 | 12-13 | >588 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.88 | Horz(CT) | 0.02 | 10 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-SH | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 163 lb | FT = 10% |

**LUMBER**
TOP CHORD 2x6 DF No.2
BOT CHORD 2x6 DF No.2
WEBS 2x4 HF No.2 *Except* 13-6,18-1:2x6 DF No.2

**BRACING**
TOP CHORD Structural wood sheathing directly applied or 3-5-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-3-9 oc bracing.

**REACTIONS** (size) 10=0-5-8, 16=0-5-8, 18=0-3-8
Max Horiz 18=34 (LC 11)
Max Uplift 10=-37 (LC 12), 16=-191 (LC 12), 18=-364 (LC 1)
Max Grav 10=1163 (LC 1), 16=2504 (LC 1), 18=35 (LC 12)

**FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-256/1378, 2-3=-468/2511, 3-4=-1570/302, 4-6=-4279/785, 6-7=-4279/789, 7-8=-4026/710, 8-9=-2540/409, 9-10=-1085/177
BOT CHORD 17-18=-51/36, 16-17=-1375/262, 15-16=-2505/463, 13-15=-314/1563, 12-13=-708/4022, 11-12=-403/2536, 10-11=-27/98
WEBS 3-16=-1702/371, 6-13=-334/161, 7-12=-433/157, 7-13=-121/276, 8-12=-324/1582, 8-11=-886/206, 9-11=-404/2612, 2-16=-1204/228, 2-17=-19/359, 1-17=-1456/272, 3-15=-759/4193, 4-15=-1047/266, 4-13=-497/2806, 1-18=-55/402

**NOTES**
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 37 lb uplift at joint 10, 364 lb uplift at joint 18 and 191 lb uplift at joint 16.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 207 lb down and 42 lb up at 15-10-4, and 207 lb down and 42 lb up at 15-10-4 on bottom chord. The design/ selection of such connection device(s) is the responsibility of others.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-19=-80, 9-19=-90, 10-18=-20
Concentrated Loads (lb)
Vert: 13=-415 (F=-207, B=-207)


February 22,2024



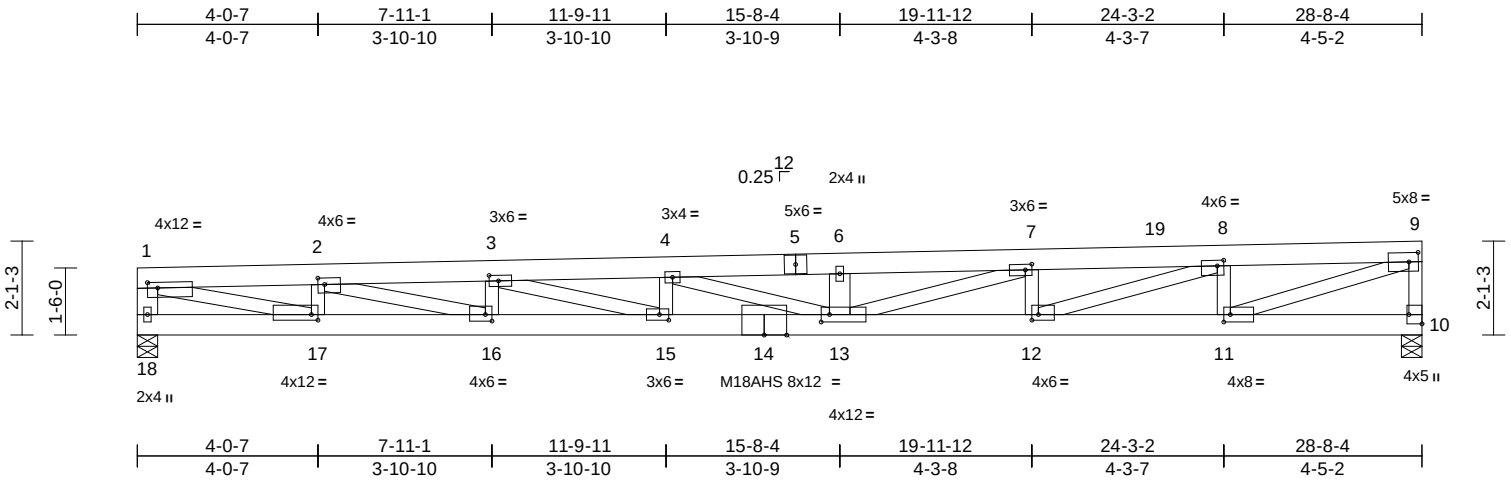

MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934124 |
|---|---|---|---|---|---|
| 3871615 | M36 | Monopitch Girder | 5 | 1 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:14:20 Page: 1
ID:dX_Q3rFfUwh6huC5ALw?BVzjHY3-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

PRMU20240139




Scale = 1:51.4

Plate Offsets (X, Y): [1:0-2-12,0-1-8], [2:0-1-12,0-1-12], [3:0-2-8,0-1-8], [7:0-1-12,0-1-8], [8:0-1-12,0-1-8], [9:0-2-8,0-2-8], [10:Edge,0-3-8], [11:0-1-12,0-2-0], [12:0-1-12,0-1-8], [13:0-2-4,0-2-0], [15:0-2-8,0-1-8], [16:0-1-12,0-1-12], [17:0-1-12,0-1-8]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.85 | Vert(LL) | -0.63 | 13-15 | >543 | 240 | MT20 | 220/195 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.73 | Vert(CT) | -1.24 | 13-15 | >274 | 180 | M18AHS | 169/162 |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 1.00 | Horz(CT) | 0.10 | 10 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-SH | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 163 lb | FT = 10% |

**LUMBER**
TOP CHORD 2x6 DF No.2
BOT CHORD 2x6 DF 2400F 2.0E
WEBS 2x4 HF No.2 *Except* 13-6,18-1:2x6 DF No.2

**BRACING**
TOP CHORD Structural wood sheathing directly applied or 1-8-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-0-15 oc bracing.

**REACTIONS** (size) 10=0-5-8, 18=0-5-8
Max Horiz 18=34 (LC 11)
Max Uplift 10=-78 (LC 12), 18=-116 (LC 8)
Max Grav 10=1717 (LC 1), 18=1629 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-4596/837, 2-3=-7566/1373, 3-4=-9101/1645, 4-6=-9198/1650, 6-7=-9197/1653, 7-8=-7195/1267, 8-9=-4030/672, 9-10=-1617/272
BOT CHORD 17-18=-51/36, 16-17=-877/4592, 15-16=-1405/7561, 13-15=-1669/9096, 12-13=-1271/7191, 11-12=-669/4027, 10-11=-35/142
WEBS 6-13=-263/147, 1-17=-866/4762, 4-13=-146/282, 2-17=-1226/291, 2-16=-555/3091, 3-16=-800/203, 3-15=-282/1608, 4-15=-366/123, 7-13=-419/2115, 9-11=-679/4159, 7-12=-1011/261, 8-12=-640/3364, 8-11=-1447/306, 1-18=-1532/303

**NOTES**

1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 78 lb uplift at joint 10 and 116 lb uplift at joint 18.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 230 lb down and 45 lb up at 15-10-4, and 226 lb down and 41 lb up at 15-10-4 on bottom chord. The design/ selection of such connection device(s) is the responsibility of others.
12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-19=-80, 9-19=-90, 10-18=-20
Concentrated Loads (lb)
Vert: 13=-456 (F=-226, B=-230)


February 22,2024



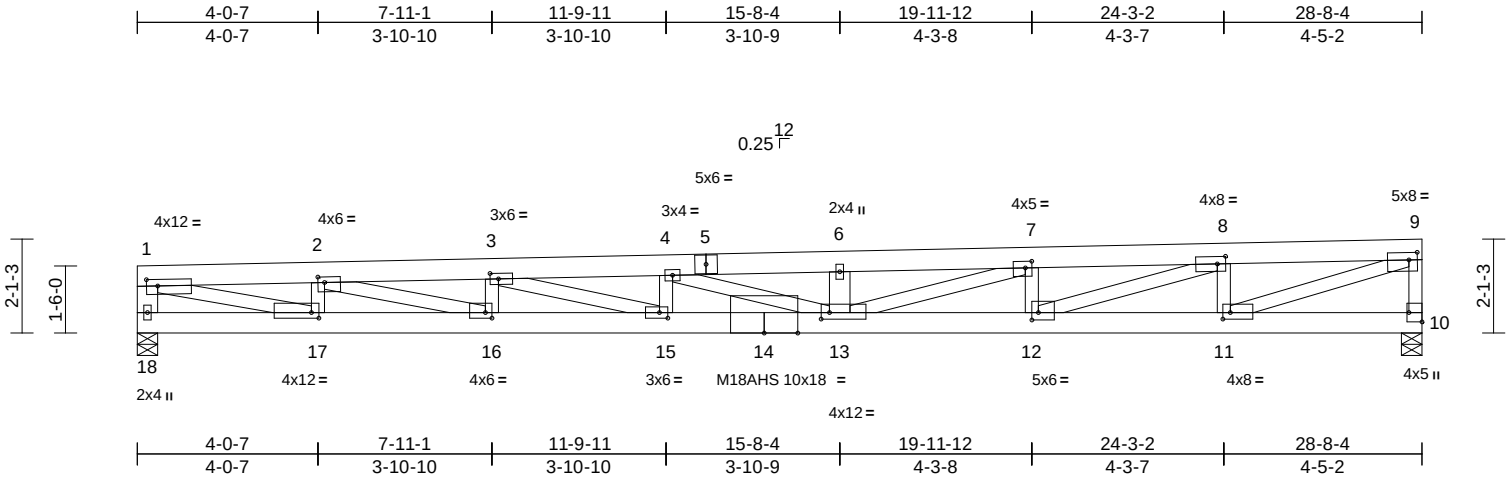

MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934125 |
|---|---|---|---|---|---|
| 3871615 | M37 | Monopitch Girder | 2 | 1 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:14:21 Page: 1

ID:QPRVOn7DPoVpo2ye3pSa2QzjC1l-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f PRMU20240139




Scale = 1:51.4

Plate Offsets (X, Y): [1:0-3-0,0-1-12], [2:0-1-12,0-1-8], [3:0-2-4,0-1-8], [7:0-1-12,0-1-12], [8:0-2-4,0-2-0], [9:0-2-4,0-2-0], [10:Edge,0-3-8], [11:0-2-0,0-1-12], [12:0-1-12,0-2-0], [13:0-2-4,0-1-8], [15:0-2-4,0-1-8], [16:0-1-12,0-1-8], [17:0-2-0,0-1-8]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.98 | Vert(LL) | -0.68 | 13-15 | >502 | 240 | MT20 | 220/195 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.79 | Vert(CT) | -1.33 | 13-15 | >256 | 180 | M18AHS | 169/162 |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.98 | Horz(CT) | 0.10 | 10 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-SH | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 164 lb | FT = 10% |

**LUMBER**
TOP CHORD 2x6 DF No.2
BOT CHORD 2x6 DF 2400F 2.0E
WEBS 2x4 HF No.2 *Except* 18-1,13-6:2x6 DF No.2, 1-17:2x4 DF No.2

**BRACING**
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-7-1 oc bracing.

**REACTIONS** (size) 10=0-5-8, 18=0-5-8
Max Horiz 18=34 (LC 11)
Max Uplift 10=-153 (LC 12), 18=-141 (LC 8)
Max Grav 10=1768 (LC 1), 18=1709 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-4923/930, 2-3=-8042/1522, 3-4=-9798/1862, 4-6=-10026/1911, 6-7=-10025/1914, 7-8=-7713/1477, 8-9=-4222/817, 9-10=-1668/343
BOT CHORD 17-18=-51/36, 16-17=-970/4919, 15-16=-1554/8037, 13-15=-1885/9793, 12-13=-1481/7709, 11-12=-814/4219, 10-11=-42/144
WEBS 1-18=-1621/329, 2-17=-1292/312, 3-16=-860/223, 4-15=-422/141, 6-13=-245/157, 7-12=-1118/280, 8-11=-1518/364, 9-11=-827/4363, 8-12=-709/3711, 7-13=-473/2442, 4-13=-188/353, 3-15=-352/1839, 2-16=-614/3246, 1-17=-962/5102

**NOTES**

1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 153 lb uplift at joint 10 and 141 lb uplift at joint 18.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 456 lb down and 86 lb up at 15-10-4, and 189 lb down and 42 lb up at 15-10-4 on bottom chord. The design/ selection of such connection device(s) is the responsibility of others.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-9=-80, 10-18=-20
Concentrated Loads (lb)
Vert: 13=-645 (F=-456, B=-189)


February 22,2024

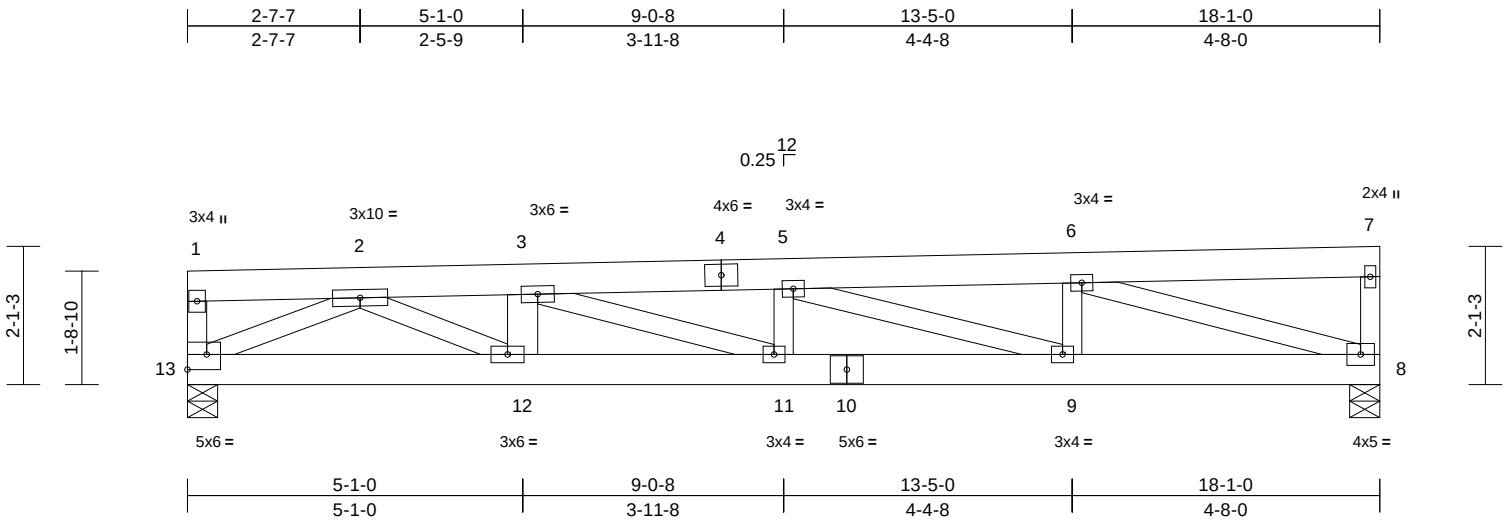


MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934126 |
|---|---|---|---|---|---|
| 3871615 | M39 | Monopitch Girder | 1 | 2 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:14:23 Page: 1
ID:4U7L1PEVLOFGsn_TrDmABSzjGpc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC? PRMU20240139




Scale = 1:34.9

Plate Offsets (X, Y): [13:Edge,0-2-12]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.42 | Vert(LL) | -0.11 | 11-12 | >999 | 240 | MT20 | 185/148 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.80 | Vert(CT) | -0.23 | 11-12 | >943 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.46 | Horz(CT) | 0.05 | 8 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-SH | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 207 lb | FT = 10% |

**LUMBER**
TOP CHORD 2x6 DF No.2
BOT CHORD 2x6 DF No.2
WEBS 2x4 HF No.2 *Except* 12-3:2x6 DF No.2

**BRACING**
TOP CHORD Structural wood sheathing directly applied or 5-3-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (size) 8=0-5-8, 13=0-5-8
Max Horiz 13=41 (LC 29)
Max Uplift 8=-99 (LC 12), 13=-304 (LC 8)
Max Grav 8=1549 (LC 1), 13=4794 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-13=-1236/362, 1-2=-333/102, 2-3=-8164/2214, 3-5=-6611/1809, 5-6=-3826/1057, 6-7=-133/56, 7-8=-196/87
BOT CHORD 12-13=-1903/6678, 11-12=-2249/8136, 9-11=-1839/6607, 8-9=-1068/3823
WEBS 5-11=-121/735, 5-9=-2933/812, 6-9=-178/966, 6-8=-3901/1076, 3-12=-696/322, 3-11=-1751/434, 2-12=-402/1653, 2-13=-7218/2014

**NOTES**
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
4) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
8) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 304 lb uplift at joint 13 and 99 lb uplift at joint 8.
10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 189 lb down and 42 lb up at 5-3-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

**LOAD CASE(S)** Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-3=-966, 3-7=-80, 8-13=-20
Concentrated Loads (lb)
Vert: 12=-189 (F)


February 22,2024

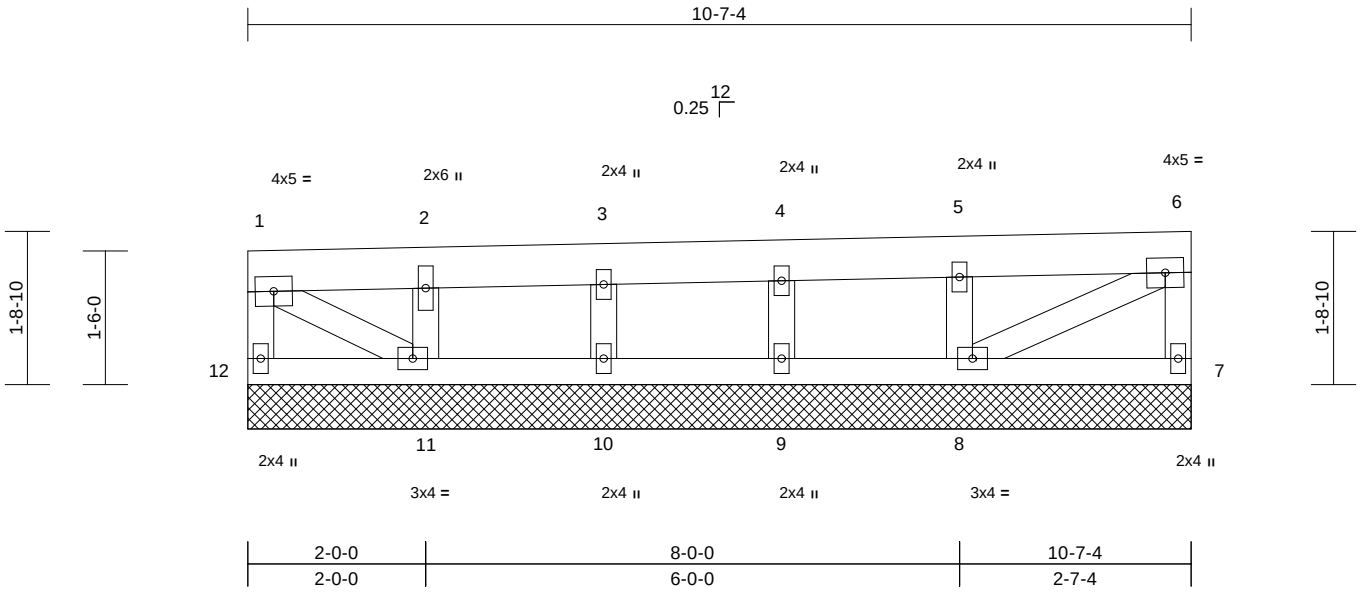


MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934127 |
|---|---|---|---|---|---|
| 3871615 | M39A | Monopitch Supported Gable | 1 | **2** | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223, Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:14:24 Page: 1

ID:OZPgr7VYYx0OWcVMEAyzHHzjGZm-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC? PRMU20240139




Scale = 1:25.9

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.23 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 185/148 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.02 | Vert(TL) | n/a | - | n/a | 999 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.14 | Horiz(TL) | 0.00 | 8 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-SH | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 91 lb | FT = 10% |

**LUMBER**

| | |
|---|---|
| TOP CHORD | 2x6 DF No.2 |
| BOT CHORD | 2x4 HF No.2 |
| WEBS | 2x4 HF No.2 |
| OTHERS | 2x4 HF No.2 |

**BRACING**

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

**REACTIONS** (size) 7=10-7-4, 8=10-7-4, 9=10-7-4, 10=10-7-4, 11=10-7-4, 12=10-7-4
Max Horiz 12=33 (LC 11)
Max Uplift 7=-57 (LC 12), 8=-150 (LC 8), 9=-108 (LC 8), 10=-117 (LC 8), 11=-120 (LC 12), 12=-46 (LC 8)
Max Grav 7=981 (LC 1), 8=2538 (LC 1), 9=1843 (LC 1), 10=1990 (LC 1), 11=2110 (LC 1), 12=705 (LC 1)

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

| | |
|---|---|
| TOP CHORD | 1-12=-686/285, 1-2=-40/65, 2-3=-36/63, 3-4=-34/62, 4-5=-33/65, 5-6=-27/60, 6-7=-955/386 |
| BOT CHORD | 11-12=-70/87, 10-11=-49/41, 9-10=-49/41, 8-9=-49/41, 7-8=-36/75 |
| WEBS | 2-11=-2019/805, 3-10=-1949/777, 4-9=-1804/720, 5-8=-2432/971, 1-11=-115/79, 6-8=-130/52 |

**NOTES**

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
4) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
5) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
6) Provide adequate drainage to prevent water ponding.
7) Gable requires continuous bottom chord bearing.
8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
9) Gable studs spaced at 2-0-0 oc.
10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
11) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
12) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 46 lb uplift at joint 12, 57 lb uplift at joint 7, 120 lb uplift at joint 11, 117 lb uplift at joint 10, 108 lb uplift at joint 9 and 150 lb uplift at joint 8.
14) 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

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-6=-966, 7-12=-20


February 22,2024



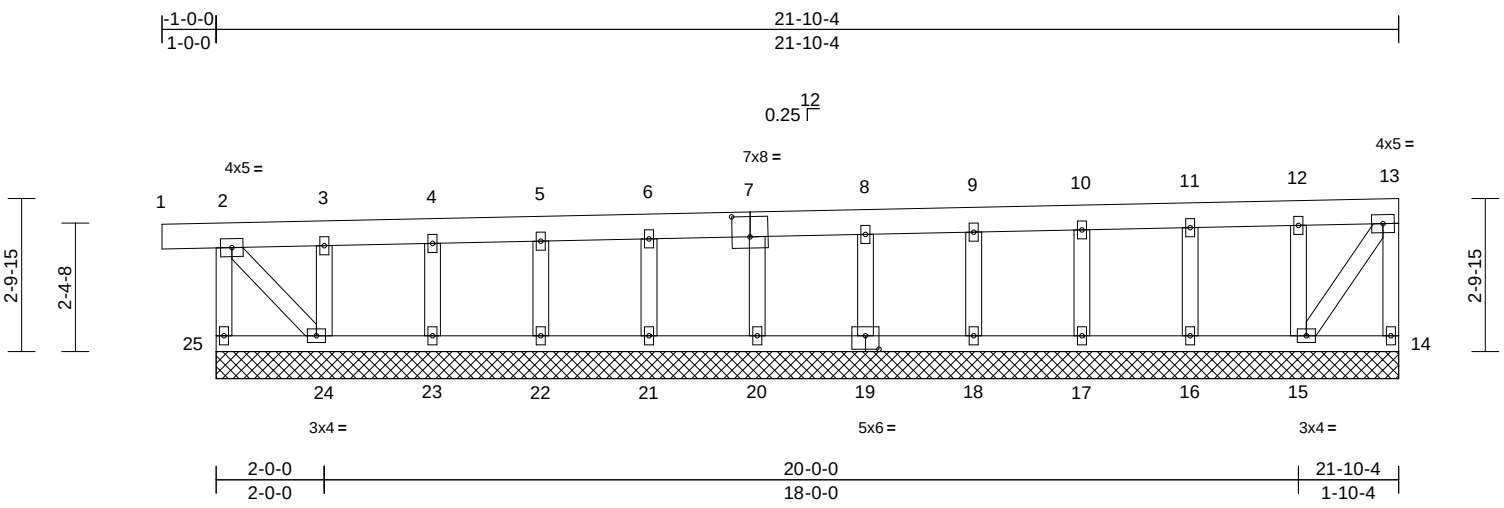
MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934128 |
|---|---|---|---|---|---|
| 3871615 | N01 | Monopitch Supported Gable | 2 | 1 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:14:24 Page: 1

ID:giUH?qAX?pOfDeWZchc4DxzjBa?-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f PRMU20240139




Scale = 1:42.6

Plate Offsets (X, Y): [7:0-4-0,0-4-8], [19:0-3-0,0-3-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.07 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 185/148 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.03 | Vert(CT) | n/a | - | n/a | 999 | | |
| TCDL | 15.0 | Rep Stress Incr | YES | WB | 0.02 | Horz(CT) | 0.00 | 14 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-SH | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 106 lb | FT = 10% |

**LUMBER**

TOP CHORD 2x6 DF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x4 HF No.2
OTHERS 2x4 HF No.2

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 10-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except:
10-0-0 oc bracing: 14-15.

**REACTIONS** (size) 14=21-10-4, 15=21-10-4, 16=21-10-4, 17=21-10-4, 18=21-10-4, 19=21-10-4, 20=21-10-4, 21=21-10-4, 22=21-10-4, 23=21-10-4, 24=21-10-4, 25=21-10-4
Max Horiz 25=61 (LC 11)
Max Uplift 14=-1 (LC 12), 15=-15 (LC 8), 16=-12 (LC 8), 17=-12 (LC 8), 18=-11 (LC 12), 19=-14 (LC 8), 20=-11 (LC 12), 21=-10 (LC 8), 22=-12 (LC 12), 23=-13 (LC 8), 24=-18 (LC 9), 25=-61 (LC 8)
Max Grav 14=47 (LC 1), 15=222 (LC 1), 16=203 (LC 1), 17=200 (LC 1), 18=198 (LC 1), 19=208 (LC 1), 20=199 (LC 1), 21=193 (LC 1), 22=201 (LC 1), 23=204 (LC 1), 24=182 (LC 1), 25=228 (LC 18)

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

TOP CHORD 2-25=-213/107, 1-2=0/3, 2-3=-31/31, 3-4=-30/31, 4-5=-28/31, 5-6=-26/30, 6-8=-27/34, 8-9=-25/34, 9-10=-23/34, 10-11=-21/33, 11-12=-20/34, 12-13=-20/35, 13-14=-33/29
BOT CHORD 24-25=-96/92, 23-24=-37/41, 22-23=-37/41, 21-22=-37/41, 20-21=-37/41, 18-20=-41/45, 17-18=-41/45, 16-17=-41/45, 15-16=-41/45, 14-15=-28/39
WEBS 3-24=-134/67, 4-23=-164/75, 5-22=-161/72, 6-21=-153/69, 7-20=-160/73, 8-19=-168/76, 9-18=-158/71, 10-17=-160/72, 11-16=-163/74, 12-15=-158/76, 2-24=-83/97, 13-15=-29/12

**NOTES**

1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
4) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) All plates are 2x4 MT20 unless otherwise indicated.
7) Gable requires continuous bottom chord bearing.
8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
9) Gable studs spaced at 2-0-0 oc.
10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
11) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
12) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 61 lb uplift at joint 25, 1 lb uplift at joint 14, 18 lb uplift at joint 24, 13 lb uplift at joint 23, 12 lb uplift at joint 22, 10 lb uplift at joint 21, 11 lb uplift at joint 20, 14 lb uplift at joint 19, 11 lb uplift at joint 18, 12 lb uplift at joint 17, 12 lb uplift at joint 16 and 15 lb uplift at joint 15.
14) 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


February 22,2024



MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

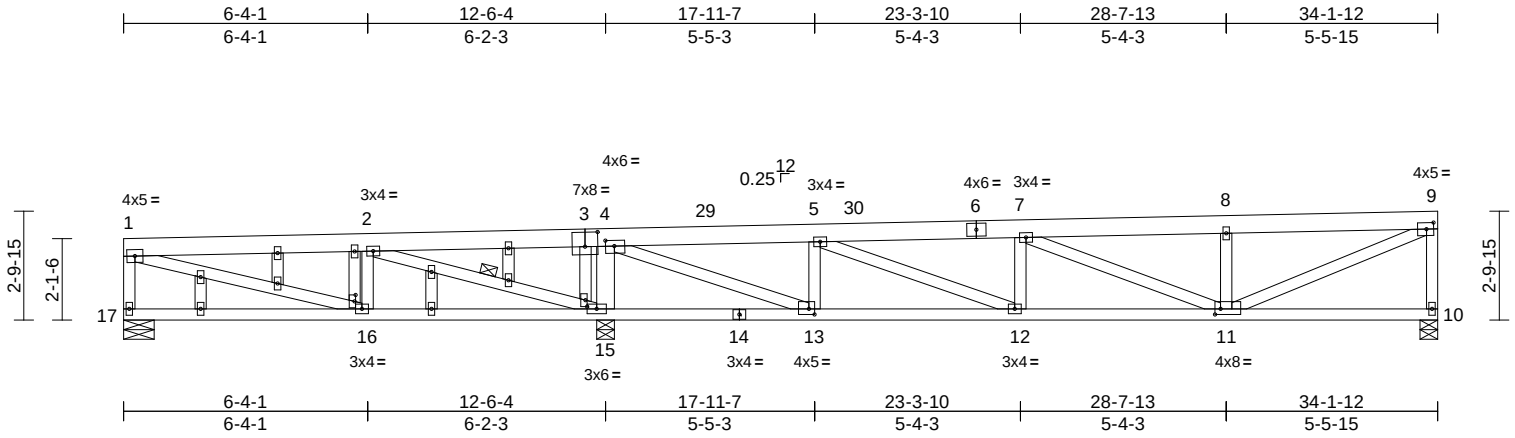
| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934129 |
|---|---|---|---|---|---|
| 3871615 | N02 | Monopitch | 2 | 1 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:14:26 Page: 1

ID:_3LT2ZnG5IkcKjJa1?77wszjB6p-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

PRMU20240139




Scale = 1:59.9

Plate Offsets (X, Y): [3:0-4-0,0-4-8], [4:0-2-12,0-1-12], [9:0-2-4,0-2-0], [11:0-1-12,0-1-12], [13:0-1-12,0-1-12], [22:0-2-0,0-0-5], [28:0-2-0,0-0-8]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.49 | Vert(LL) | -0.09 | 12 | >999 | 240 | MT20 | 185/148 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.47 | Vert(CT) | -0.19 | 12-13 | >999 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | YES | WB | 0.51 | Horz(CT) | 0.02 | 10 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-SH | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 175 lb | FT = 10% |

**LUMBER**

| | |
|---|---|
| TOP CHORD | 2x6 DF No.2 |
| BOT CHORD | 2x4 HF No.2 |
| WEBS | 2x4 HF No.2 *Except* 4-15:2x6 DF No.2 |
| OTHERS | 2x4 HF No.2 |

**BRACING**

| | |
|---|---|
| TOP CHORD | Structural wood sheathing directly applied or 5-3-4 oc purlins, except end verticals. |
| BOT CHORD | Rigid ceiling directly applied or 5-0-8 oc bracing. |
| WEBS | 1 Row at midpt 2-15 |

**REACTIONS** (size) 10=0-5-8, 15=0-5-8, 17=0-9-8
Max Horiz 17=61 (LC 11)
Max Uplift 10=-55 (LC 12), 15=-119 (LC 12), 17=-25 (LC 8)
Max Grav 10=939 (LC 1), 15=2063 (LC 1), 17=384 (LC 1)

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

| | |
|---|---|
| TOP CHORD | 1-17=-323/95, 1-2=-372/66, 2-4=-215/1192, 4-5=-1084/187, 5-7=-2013/332, 7-8=-1627/275, 8-9=-1628/280, 9-10=-886/170 |
| BOT CHORD | 16-17=-94/118, 15-16=-113/367, 13-15=-1185/200, 12-13=-182/1078, 11-12=-325/2008, 10-11=-22/46 |
| WEBS | 4-15=-1453/303, 2-15=-1623/279, 2-16=0/202, 1-16=-77/310, 5-13=-743/190, 4-13=-358/2412, 5-12=-154/1001, 7-12=-260/119, 7-11=-418/65, 8-11=-456/161, 9-11=-271/1743 |

**NOTES**

1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) 0-1-12 to 15-1-12, Exterior (2) 15-1-12 to 19-0-0, Corner (3) 19-0-0 to 34-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
4) Provide adequate drainage to prevent water ponding.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
10) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 25 lb uplift at joint 17, 55 lb uplift at joint 10 and 119 lb uplift at joint 15.
12) 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


February 22,2024




MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

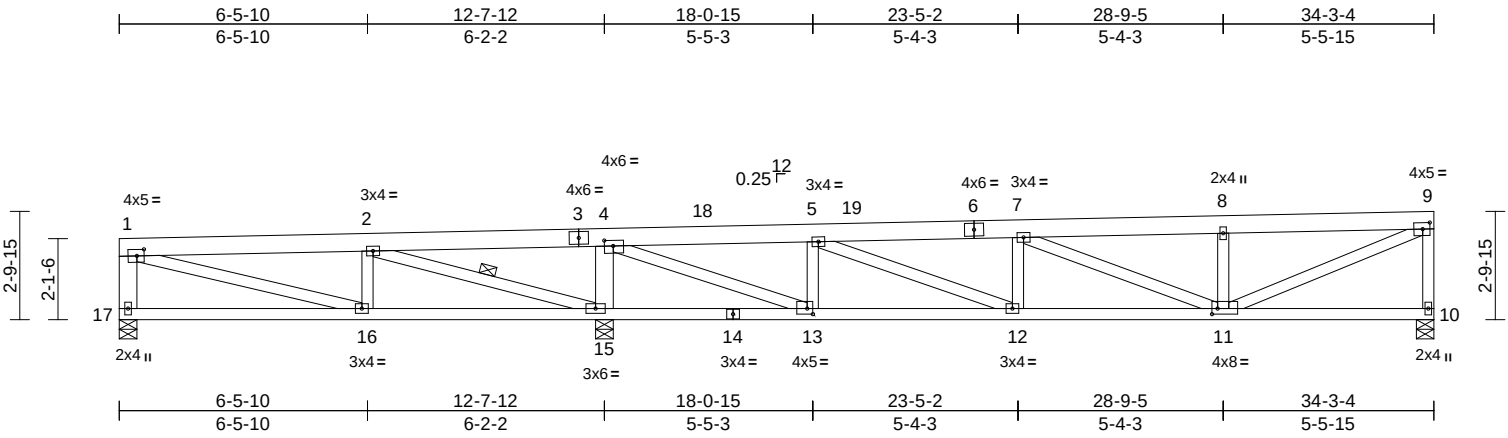
| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934130 |
|---|---|---|---|---|---|
| 3871615 | N03 | Monopitch | 2 | 1 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:14:28 Page: 1

ID:?9KHEy_EwGJfKXoS?LiCB8zjArl-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

PRMU20240139




Scale = 1:60.1

Plate Offsets (X, Y): [1:0-2-4,0-2-0], [4:0-2-12,0-1-12], [9:0-2-4,0-2-0], [11:0-1-12,0-1-12], [13:0-1-12,0-1-12]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.50 | Vert(LL) | -0.09 | 12 | >999 | 240 | MT20 | 185/148 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.47 | Vert(CT) | -0.19 | 12-13 | >999 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | YES | WB | 0.51 | Horz(CT) | 0.02 | 10 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-SH | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 169 lb | FT = 10% |

**LUMBER**

TOP CHORD 2x6 DF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x4 HF No.2 *Except* 17-1,15-4:2x6 DF No.2

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 5-3-3 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-0-12 oc bracing.
WEBS 1 Row at midpt 2-15

**REACTIONS** (size) 10=0-5-8, 15=0-5-8, 17=0-5-8
Max Horiz 17=57 (LC 11)
Max Uplift 10=-56 (LC 12), 15=-119 (LC 12), 17=-25 (LC 8)
Max Grav 10=939 (LC 1), 15=2063 (LC 1), 17=388 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-17=-325/97, 1-2=-373/65, 2-4=-212/1184, 4-5=-1089/188, 5-7=-2016/332, 7-8=-1628/275, 8-9=-1629/279, 9-10=-887/170
BOT CHORD 16-17=-102/137, 15-16=-113/368, 13-15=-1178/197, 12-13=-183/1082, 11-12=-324/2011, 10-11=-22/46
WEBS 4-15=-1454/302, 2-16=0/206, 1-16=-66/271, 2-15=-1616/276, 4-13=-356/2409, 5-13=-742/190, 5-12=-153/999, 7-12=-259/118, 7-11=-420/66, 8-11=-456/161, 9-11=-271/1744

**NOTES**

1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) interior zone and C-C Corner (3) 0-2-12 to 15-2-12, Exterior (2) 15-2-12 to 19-1-8, Corner (3) 19-1-8 to 34-1-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 25 lb uplift at joint 17, 56 lb uplift at joint 10 and 119 lb uplift at joint 15.
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


February 22,2024

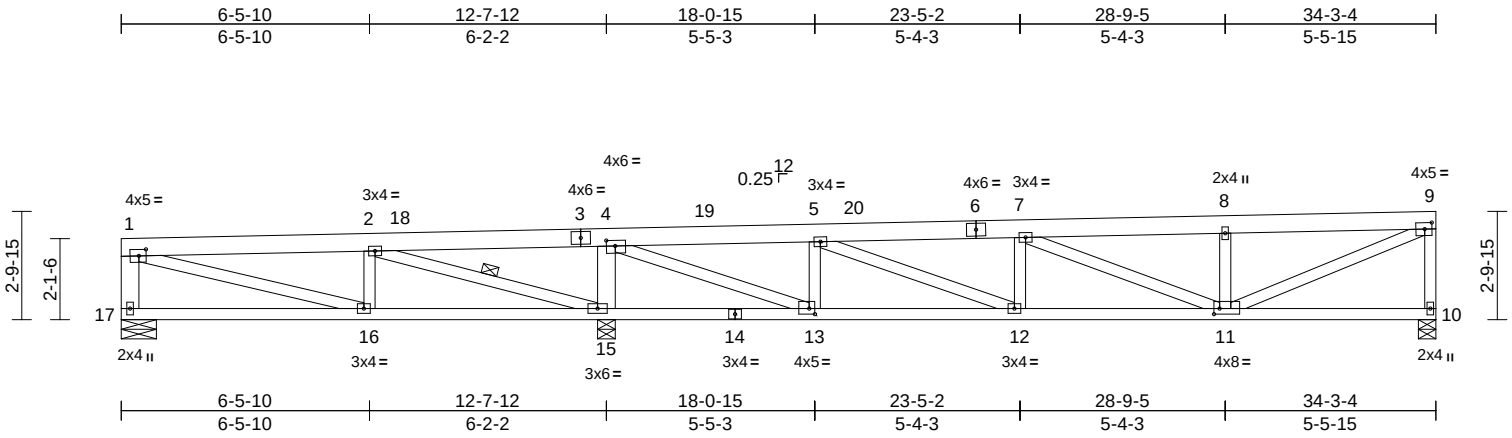


MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934131 |
|---|---|---|---|---|---|
| 3871615 | N04 | Monopitch Structural Gable | 2 | 1 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223, Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:14:29 Page: 1

ID:0rhZ?aZPMvOF8NX3WgUJMMzjAkY-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f PRMU20240139




Scale = 1:60.1

Plate Offsets (X, Y): [1:0-2-4,0-2-0], [4:0-2-12,0-1-12], [9:0-2-4,0-2-0], [11:0-1-12,0-1-12], [13:0-1-12,0-1-12]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.56 | Vert(LL) | -0.09 | 12 | >999 | 240 | MT20 | 185/148 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.51 | Vert(CT) | -0.19 | 12-13 | >999 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.51 | Horz(CT) | 0.02 | 10 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-SH | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 169 lb | FT = 10% |

**LUMBER**

TOP CHORD 2x6 DF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x4 HF No.2 *Except* 17-1,15-4:2x6 DF No.2

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 5-3-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-0-4 oc bracing.
WEBS 1 Row at midpt 2-15

**REACTIONS** (size) 10=0-5-8, 15=0-5-8, 17=0-11-0
Max Horiz 17=57 (LC 9)
Max Uplift 10=-57 (LC 12), 15=-95 (LC 12)
Max Grav 10=938 (LC 1), 15=2087 (LC 1), 17=435 (LC 1)

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

TOP CHORD 1-17=-373/50, 1-2=-436/4, 2-4=-197/1200, 4-5=-1077/200, 5-7=-2009/339, 7-8=-1625/278, 8-9=-1625/282, 9-10=-885/171
BOT CHORD 16-17=-90/149, 15-16=-51/430, 13-15=-1194/181, 12-13=-194/1071, 11-12=-332/2004, 10-11=-22/46
WEBS 8-11=-456/161, 7-12=-261/117, 5-13=-744/188, 4-15=-1454/302, 2-16=0/191, 1-16=-14/323, 2-15=-1697/195, 4-13=-351/2414, 5-12=-148/1003, 7-11=-416/70, 9-11=-274/1741

**NOTES**

1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) interior zone and C-C Corner (3) 0-2-12 to 15-2-12, Exterior (2) 15-2-12 to 19-1-8, Corner (3) 19-1-8 to 34-1-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 57 lb uplift at joint 10 and 95 lb uplift at joint 15.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

**LOAD CASE(S)** Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-18=-90, 9-18=-80, 10-17=-20


February 22,2024



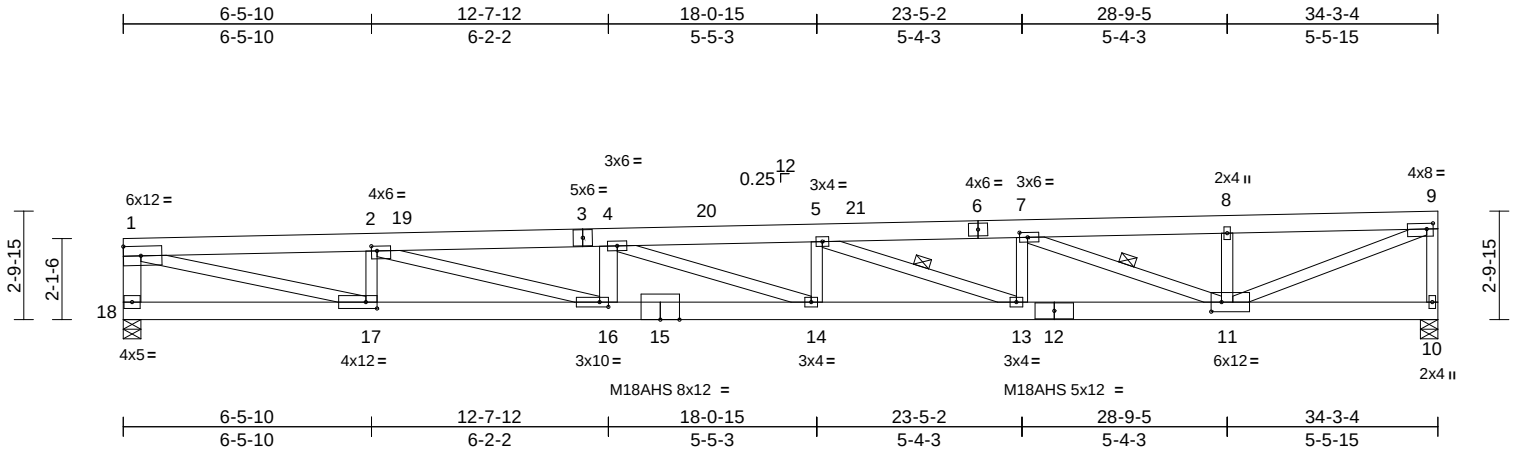
MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934132 |
|---|---|---|---|---|---|
| 3871615 | N05 | Monopitch Girder | 8 | 1 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:14:30 Page: 1
ID:tg7oAiz5tR7lB9nqHPVRavzjAet-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

PRMU20240139




Scale = 1:60.1

Plate Offsets (X, Y): [2:0-1-12,0-1-8], [7:0-2-8,0-1-8], [9:0-2-0,0-1-12], [11:0-3-4,0-3-0], [16:0-2-12,0-1-8], [17:0-3-8,0-2-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.51 | Vert(LL) | -0.57 | 14-16 | >719 | 240 | MT20 | 220/195 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.67 | Vert(CT) | -1.14 | 14-16 | >358 | 180 | M18AHS | 169/162 |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.91 | Horz(CT) | 0.13 | 10 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-SH | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 201 lb | FT = 10% |

**LUMBER**
TOP CHORD 2x6 DF 2400F 2.0E
BOT CHORD 2x6 DF 2400F 2.0E
WEBS 2x4 HF No.2 *Except* 18-1,16-4:2x6 DF No.2, 1-17:2x4 DF 1800F 1.6E

**BRACING**
TOP CHORD Structural wood sheathing directly applied or 2-11-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-6-10 oc bracing.
WEBS 1 Row at midpt 7-11, 5-13

**REACTIONS** (size) 10=0-5-8, 18=0-5-8
Max Horiz 18=30 (LC 39)
Max Uplift 10=-181 (LC 12), 18=-188 (LC 8)
Max Grav 10=1929 (LC 1), 18=2151 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-18=-2020/364, 1-2=-6272/1145, 2-4=-9402/1898, 4-5=-8852/1686, 5-7=-6937/1266, 7-8=-3985/705, 8-9=-3986/709
BOT CHORD 17-18=-98/380, 16-17=-1166/6264, 14-16=-1916/9394, 13-14=-1699/8847, 11-13=-1275/6932, 10-11=0/0
WEBS 9-10=-1867/360, 2-17=-1494/372, 4-16=-351/428, 5-14=-28/382, 7-13=-98/829, 8-11=-470/162, 9-11=-776/4353, 7-11=-3180/609, 5-13=-2048/454, 4-14=-749/248, 2-16=-788/3259, 1-17=-1115/6088

**NOTES**

1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) interior zone and C-C Corner (3) 0-2-12 to 15-2-12, Exterior (2) 15-2-12 to 19-1-8, Corner (3) 19-1-8 to 34-1-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 188 lb uplift at joint 18 and 181 lb uplift at joint 10.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 748 lb down and 241 lb up at 12-6-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-19=-90, 9-19=-80, 10-18=-20
Concentrated Loads (lb)
Vert: 16=-619 (F)


February 22,2024



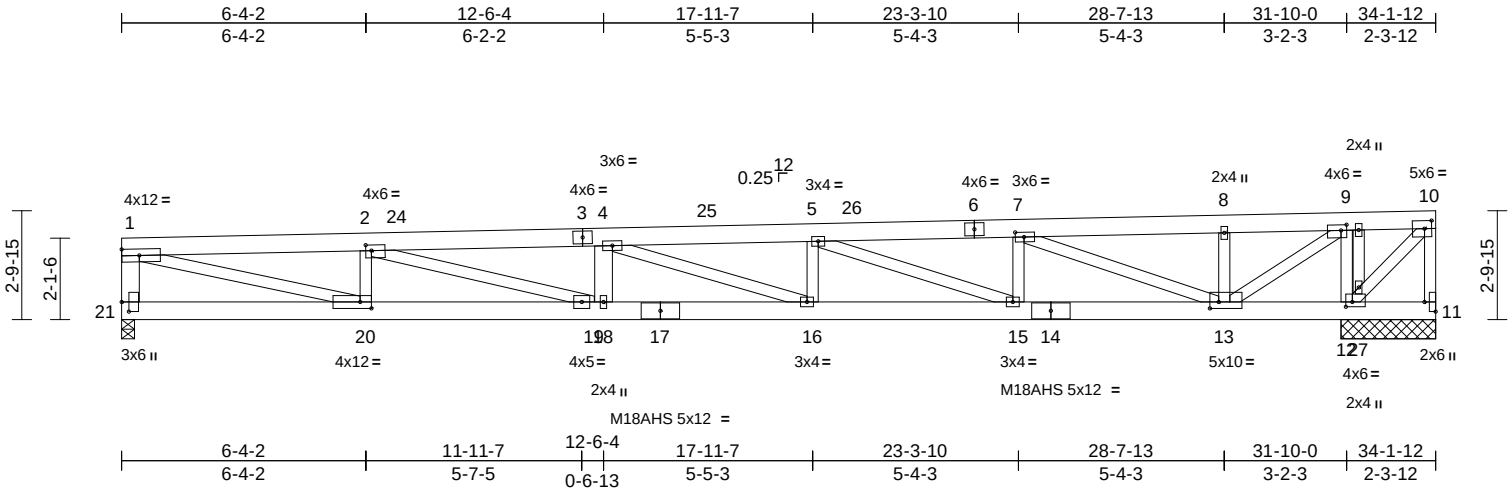

MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934133 |
|---|---|---|---|---|---|
| 3871615 | N06 | Monopitch | 1 | 2 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:14:32 Page: 1

ID:rNmOmvoVp1JaT?UPtZ7x_3zjAW2-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f PRMU20240139




Scale = 1:59.9

Plate Offsets (X, Y): [2:0-1-12,0-1-12], [7:0-2-12,0-1-8], [9:0-1-12,0-1-12], [10:0-2-4,0-2-8], [11:Edge,0-3-8], [12:0-2-0,0-1-8], [13:0-2-12,0-2-0], [20:0-3-8,0-2-0], [21:0-3-0,0-2-4]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.87 | Vert(LL) | -0.53 | 16-18 | >764 | 240 | MT20 | 220/195 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.58 | Vert(CT) | -1.07 | 16-18 | >380 | 180 | M18AHS | 169/162 |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.91 | Horz(CT) | 0.12 | 11 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-SH | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 407 lb | FT = 10% |

**LUMBER**

TOP CHORD 2x6 DF No.2
BOT CHORD 2x6 DF 2400F 2.0E
WEBS 2x4 HF No.2 *Except* 21-1,18-4:2x6 DF No.2
OTHERS 2x4 HF No.2

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 2-9-3 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 12-13,11-12.

**REACTIONS** (size) 11=2-5-8, 21=0-4-0
Max Horiz 21=241 (LC 39)
Max Uplift 11=-396 (LC 41), 21=-319 (LC 32)
Max Grav 11=4391 (LC 1), 21=3008 (LC 1)

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

TOP CHORD 1-21=-2812/592, 1-2=-8891/1914, 2-4=-14778/2855, 4-5=-16686/3172, 5-7=-14353/2779, 7-8=-8785/1886, 8-9=-8782/1454, 9-10=-3787/709, 10-11=-4289/816
BOT CHORD 20-21=-302/606, 19-20=-1792/8882, 18-19=-3320/14771, 16-18=-3320/14771, 15-16=-4119/16671, 13-15=-4199/14335, 12-13=-3212/5347, 11-12=-2810/2829
WEBS 2-20=-2312/603, 4-18=-1664/533, 5-16=-632/329, 7-15=-218/963, 8-13=-1268/271, 7-13=-5997/1330, 5-15=-2523/804, 4-16=-847/2350, 2-19=-1596/6151, 1-20=-1853/8622, 9-12=-4066/800, 9-13=-1160/6172, 10-12=-1054/5474

**NOTES**

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) interior zone and C-C Corner (3) 0-2-12 to 15-2-12, Exterior (2) 15-2-12 to 19-0-0, Corner (3) 19-0-0 to 34-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
4) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
5) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
6) Provide adequate drainage to prevent water ponding.
7) All plates are MT20 plates unless otherwise indicated.
8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
9) Gable studs spaced at 2-0-0 oc.
10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
11) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
12) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 319 lb uplift at joint 21 and 396 lb uplift at joint 11.
14) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
15) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
16) This truss has been designed for a total drag load of 3000 lb. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 32-1-12 to 34-1-12 for 1500.0 plf.
17) Studding applied to ply: 2(Back)

**LOAD CASE(S)** Standard


February 22,2024

Continued on page 2



MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING |
|---|---|---|---|---|---|
| 3871615 | N06 | Monopitch | 1 | **2** | R80934133 |
| | | | | | Job Reference (optional) |



1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-24=-90, 4-24=-80, 4-10=-264, 11-21=-20



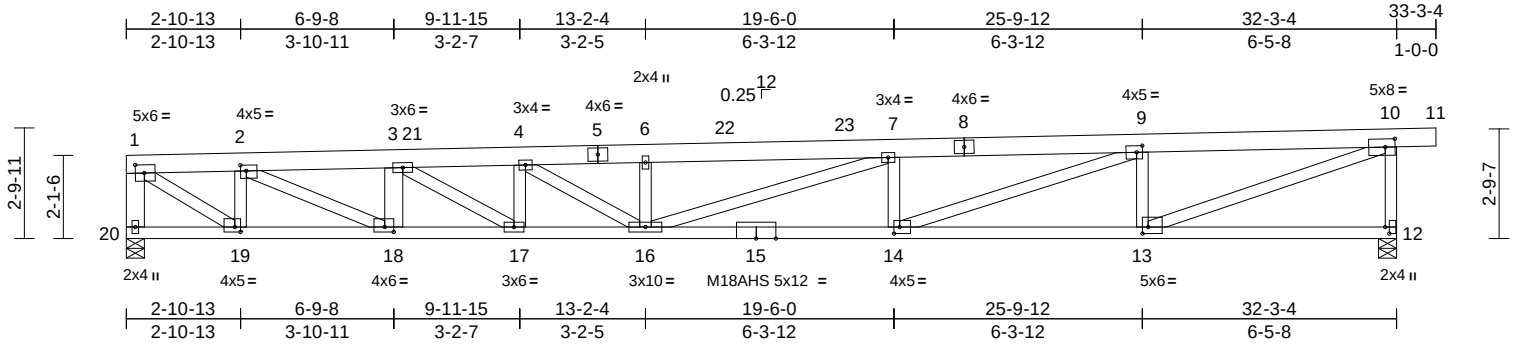
MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934134 |
|---|---|---|---|---|---|
| 3871615 | N07 | Monopitch | 3 | 1 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:14:34 Page: 1
ID:CUkpLlQowOl_9loEALFN_5zjA9I-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

PRMU20240139




Scale = 1:58.5

Plate Offsets (X, Y): [1:0-2-12,0-2-8], [2:0-1-12,0-1-12], [9:0-1-12,0-2-0], [10:0-3-0,0-2-8], [12:0-2-0,0-1-4], [13:0-1-12,0-2-0], [14:0-1-12,0-2-0], [18:0-2-12,0-1-8], [19:0-1-12,0-1-8]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.61 | Vert(LL) | -0.44 | 14-16 | >874 | 240 | MT20 | 220/195 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.96 | Vert(CT) | -0.91 | 14-16 | >421 | 180 | M18AHS | 169/162 |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.80 | Horz(CT) | 0.14 | 12 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-SH | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 170 lb | FT = 10% |

**LUMBER**
TOP CHORD 2x6 DF No.2
BOT CHORD 2x4 DF 1800F 1.6E
WEBS 2x4 HF No.2 *Except* 20-1,18-3:2x6 DF No.2

**BRACING**
TOP CHORD Structural wood sheathing directly applied or 2-7-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-9-10 oc bracing.

**REACTIONS** (size) 12=0-5-8, 20=0-5-8
Max Horiz 20=56 (LC 9)
Max Uplift 12=-102 (LC 12), 20=-31 (LC 8)
Max Grav 12=1696 (LC 1), 20=1656 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-20=-1617/206, 1-2=-2271/292, 2-3=-4491/609, 3-4=-5560/797, 4-6=-6209/915, 6-7=-6214/920, 7-9=-5769/889, 9-10=-3652/589, 10-11=-3/0, 10-12=-1629/313
BOT CHORD 19-20=-99/125, 18-19=-357/2267, 17-18=-671/4485, 16-17=-856/5556, 14-16=-912/5763, 13-14=-593/3646, 12-13=-26/75
WEBS 3-18=-958/199, 2-19=-1363/220, 2-18=-360/2444, 1-19=-323/2604, 6-16=-439/149, 7-14=-638/192, 9-13=-1237/300, 10-13=-606/3821, 9-14=-340/2250, 7-16=-58/469, 4-16=-139/762, 4-17=-583/142, 3-17=-228/1242

**NOTES**

1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) interior zone and C-C Corner (3) 0-2-12 to 15-2-12, Exterior (2) 15-2-12 to 18-3-4, Corner (3) 18-3-4 to 33-3-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
3) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
8) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 31 lb uplift at joint 20 and 102 lb uplift at joint 12.
10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
11) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

**LOAD CASE(S)** Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)
Vert: 1-21=-90, 10-21=-80, 10-11=-80, 12-20=-20


February 22,2024



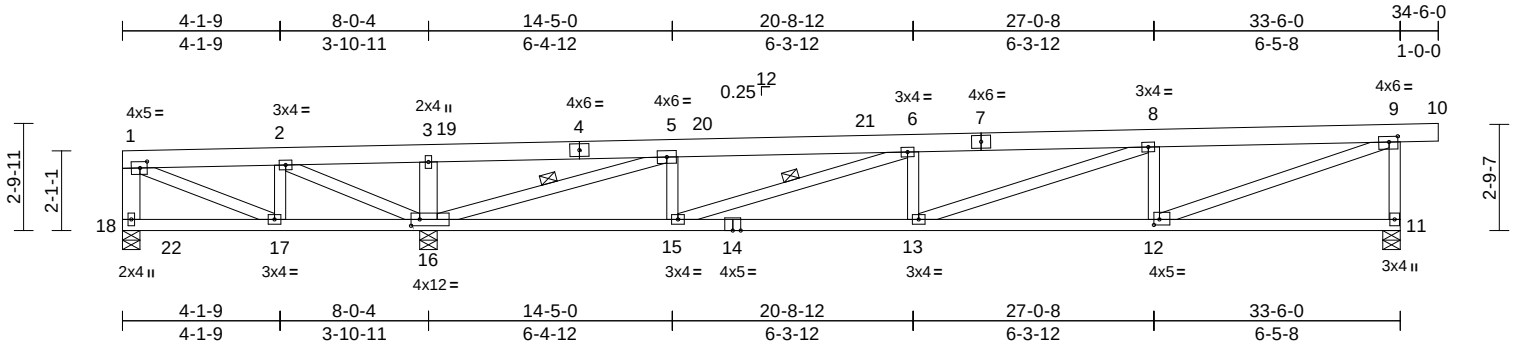

MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934135 |
|---|---|---|---|---|---|
| 3871615 | N08 | Monopitch Girder | 1 | 1 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:14:37 Page: 1

ID:aahiGm?EqY3lfnaTOAm9nKzjAKA-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f PRMU20240139




Scale = 1:60.4

Plate Offsets (X, Y): [1:0-2-4,0-2-0], [9:0-2-12,0-1-12], [12:0-1-12,0-1-12], [16:0-2-12,0-2-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.75 | Vert(LL) | -0.19 | 13 | >999 | 240 | MT20 | 185/148 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.74 | Vert(CT) | -0.39 | 13-15 | >785 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.85 | Horz(CT) | 0.07 | 11 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-SH | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 167 lb | FT = 10% |

**LUMBER**

TOP CHORD 2x6 DF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x4 HF No.2 *Except* 18-1,16-3:2x6 DF No.2

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 4-5-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 5-16, 6-15

**REACTIONS** (size) 11=0-5-8, 16=0-5-8, 18=0-5-8
Max Horiz 18=57 (LC 9)
Max Uplift 11=-81 (LC 31), 16=-99 (LC 12), 18=-108 (LC 1)
Max Grav 11=1179 (LC 1), 16=2478 (LC 1), 18=85 (LC 31)

**FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-18=-61/195, 1-2=-189/762, 2-3=-350/2127, 3-5=-346/2125, 5-6=-1380/240, 6-8=-2762/451, 8-9=-2232/376, 9-10=-3/0, 9-11=-1116/229
BOT CHORD 17-18=-93/97, 16-17=-758/221, 15-16=-243/1375, 13-15=-448/2757, 12-13=-367/2226, 11-12=-23/60
WEBS 8-12=-699/216, 6-13=-65/113, 5-15=0/584, 3-16=-609/149, 2-17=-49/418, 1-17=-868/218, 2-16=-1502/212, 5-16=-3665/559, 6-15=-1459/219, 8-13=-86/564, 9-12=-368/2318

**NOTES**

1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) interior zone and C-C Corner (3) 0-2-12 to 15-2-12, Exterior (2) 15-2-12 to 19-6-0, Corner (3) 19-6-0 to 34-6-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
3) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 108 lb uplift at joint 18, 81 lb uplift at joint 11 and 99 lb uplift at joint 16.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 63 lb down and 39 lb up at 1-3-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-19=-90, 9-19=-80, 9-10=-80, 11-18=-20
Concentrated Loads (lb)
Vert: 22=-62 (F)


February 22,2024



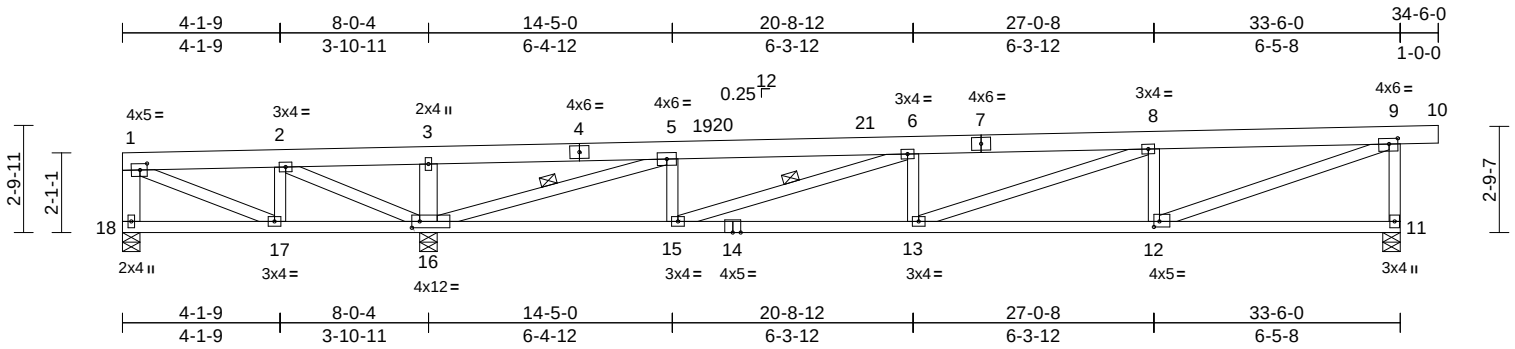

MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934136 |
|---|---|---|---|---|---|
| 3871615 | N09 | Monopitch | 3 | 1 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:14:39 Page: 1

ID:nSEQxDPwnIeuW8NOVIxWEhzjAOp-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f PRMU20240139




Scale = 1:60.4

Plate Offsets (X, Y): [1:0-2-4,0-2-0], [9:0-2-12,0-1-12], [12:0-1-12,0-1-12], [16:0-2-8,0-2-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.79 | Vert(LL) | -0.19 | 13 | >999 | 240 | MT20 | 185/148 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.75 | Vert(CT) | -0.40 | 13-15 | >769 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.88 | Horz(CT) | 0.07 | 11 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-SH | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 167 lb | FT = 10% |

**LUMBER**

TOP CHORD 2x6 DF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x4 HF No.2 *Except* 18-1,3-16:2x6 DF No.2

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 4-4-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-11-14 oc bracing.
WEBS 1 Row at midpt 5-16, 6-15

**REACTIONS** (size) 11=0-5-8, 16=0-5-8, 18=0-5-8
Max Horiz 18=60 (LC 9)
Max Uplift 11=-74 (LC 12), 16=-11 (LC 12), 18=-178 (LC 1)
Max Grav 11=1186 (LC 1), 16=2551 (LC 1), 18=30 (LC 12)

**FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-18=-40/217, 1-2=-136/821, 2-3=-300/2174, 3-5=-297/2172, 5-6=-1448/173, 6-8=-2802/412, 8-9=-2251/357, 9-10=-3/0, 9-11=-1123/222
BOT CHORD 17-18=-86/89, 16-17=-817/168, 15-16=-177/1442, 13-15=-409/2796, 12-13=-348/2245, 11-12=-23/61
WEBS 3-16=-648/108, 2-16=-1487/184, 2-17=-24/421, 1-17=-919/170, 5-15=0/573, 5-16=-3784/438, 6-15=-1430/247, 6-13=-72/106, 8-13=-64/586, 8-12=-706/208, 9-12=-348/2338

**NOTES**

1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) 0-2-12 to 15-2-12, Exterior (2) 15-2-12 to 19-6-0, Corner (3) 19-6-0 to 34-6-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
3) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 178 lb uplift at joint 18, 74 lb uplift at joint 11 and 11 lb uplift at joint 16.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

**LOAD CASE(S)** Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-20=-90, 9-20=-80, 9-10=-80, 11-18=-20


February 22,2024



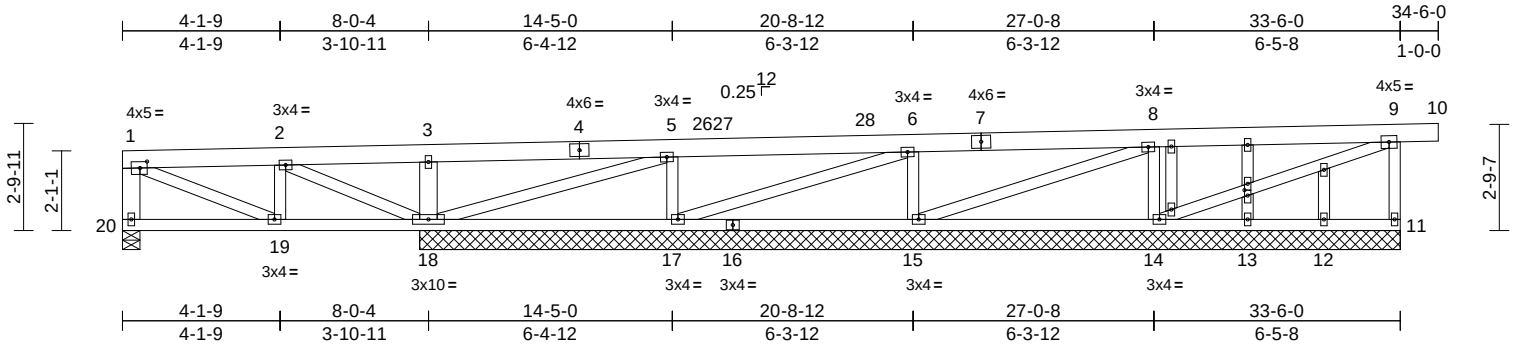

MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934137 |
|---|---|---|---|---|---|
| 3871615 | N10 | Monopitch Supported Gable | 1 | 1 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:14:40 Page: 1
ID:JCWt1z5_luQdWXNoTf5ktbzj9yp-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

PRMU20240139




Scale = 1:60.4

Plate Offsets (X, Y): [1:0-2-4,0-2-0], [23:0-1-11,0-1-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.29 | Vert(LL) | -0.03 | 17-18 | >999 | 240 | MT20 | 185/148 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.27 | Vert(CT) | -0.06 | 17-18 | >999 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.16 | Horz(CT) | 0.00 | 11 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-SH | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 173 lb | FT = 10% |

**LUMBER**
TOP CHORD 2x6 DF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x4 HF No.2 *Except* 20-1,18-3:2x6 DF No.2
OTHERS 2x4 HF No.2

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

**REACTIONS** (size) 11=25-8-8, 12=25-8-8, 13=25-8-8, 14=25-8-8, 15=25-8-8, 17=25-8-8, 18=25-8-8, 20=0-5-8
Max Horiz 20=57 (LC 9)
Max Uplift 11=-57 (LC 12), 14=-56 (LC 12), 15=-35 (LC 12)
Max Grav 11=324 (LC 1), 12=98 (LC 3), 13=31 (LC 3), 14=653 (LC 1), 15=616 (LC 1), 17=684 (LC 1), 18=861 (LC 1), 20=360 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-20=-318/44, 1-2=-351/16, 2-3=-36/116, 3-5=-33/117, 5-6=-35/49, 6-8=-32/38, 8-9=-42/43, 9-10=-3/0, 9-11=-305/100
BOT CHORD 19-20=-90/106, 18-19=-79/347, 17-18=-47/29, 15-17=-30/24, 14-15=-22/24, 13-14=-28/35, 12-13=-28/35, 11-12=-28/35
WEBS 2-19=-68/56, 1-19=-30/322, 3-18=-512/93, 2-18=-505/57, 5-17=-546/133, 5-18=-77/16, 6-15=-479/169, 6-17=-27/6, 8-14=-541/189, 9-14=-15/6, 8-15=-23/5

**NOTES**
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) interior zone and C-C Corner (3) 0-2-12 to 15-2-12, Exterior (2) 15-2-12 to 19-6-0, Corner (3) 19-6-0 to 34-6-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
4) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) All plates are 2x4 MT20 unless otherwise indicated.
7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
8) Gable studs spaced at 2-0-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
11) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 57 lb uplift at joint 11, 35 lb uplift at joint 15 and 56 lb uplift at joint 14.
13) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
14) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

**LOAD CASE(S)** Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-27=-90, 9-27=-80, 9-10=-80, 11-20=-20


February 22,2024



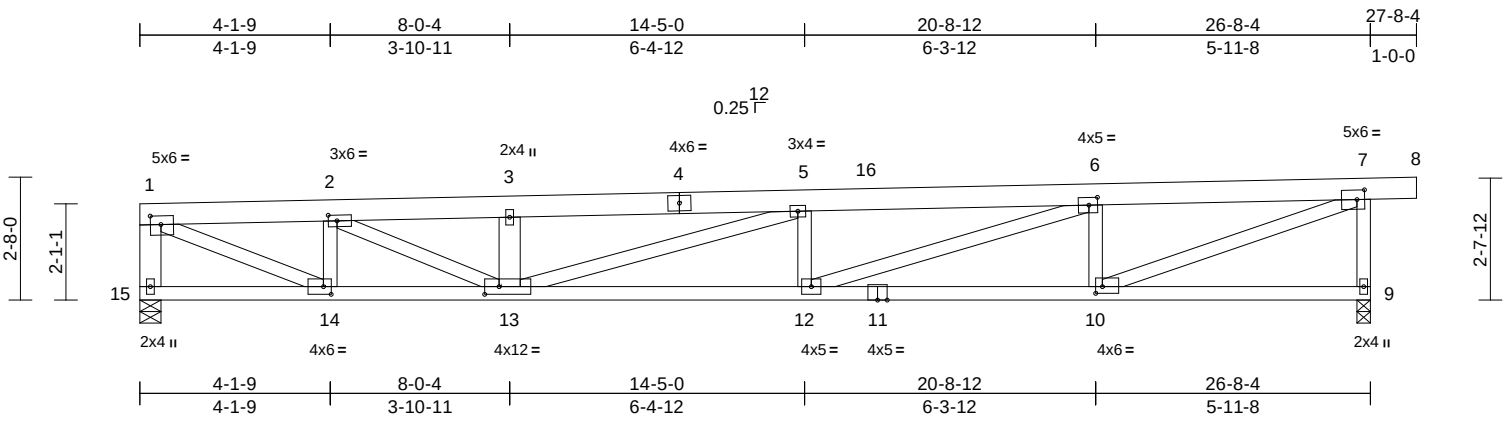
MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934138 |
|---|---|---|---|---|---|
| 3871615 | N11 | Monopitch | 5 | 1 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:14:42 Page: 1
ID:10cB0aNk07VOGeawlxfptTziyKy-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

PRMU20240139




Scale = 1:50

Plate Offsets (X, Y): [1:0-2-12,0-2-4], [2:0-2-4,0-1-8], [6:0-2-4,0-2-0], [7:0-2-0,0-2-8], [10:0-1-12,0-1-12], [13:0-3-12,0-2-0], [14:0-2-0,0-2-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.41 | Vert(LL) | -0.25 | 12-13 | >999 | 240 | MT20 | 220/195 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.72 | Vert(CT) | -0.54 | 12-13 | >587 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | YES | WB | 0.66 | Horz(CT) | 0.08 | 9 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-SH | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 139 lb | FT = 10% |

**LUMBER**
TOP CHORD 2x6 DF No.2
BOT CHORD 2x4 DF 1800F 1.6E
WEBS 2x4 HF No.2 *Except* 15-1,13-3:2x6 DF No.2

**BRACING**
TOP CHORD Structural wood sheathing directly applied or 3-3-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-4-1 oc bracing.

**REACTIONS** (size) 9=0-3-8, 15=0-5-8
Max Horiz 15=53 (LC 9)
Max Uplift 9=-47 (LC 12)
Max Grav 9=1455 (LC 1), 15=1423 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-15=-1366/175, 1-2=-2594/298, 2-3=-4230/486, 3-5=-4235/491, 5-6=-4616/604, 6-7=-2986/472, 7-8=-3/0, 7-9=-1395/283
BOT CHORD 14-15=-96/145, 13-14=-358/2589, 12-13=-634/4610, 10-12=-478/2980, 9-10=-25/65
WEBS 2-14=-1038/169, 5-12=-429/131, 6-10=-1015/257, 7-10=-487/3129, 6-12=-164/1721, 3-13=-521/120, 5-13=-401/121, 1-14=-305/2694, 2-13=-218/1805

**NOTES**
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) interior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
3) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 47 lb uplift at joint 9.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

**LOAD CASE(S)** Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-16=-90, 7-16=-80, 7-8=-80, 9-15=-20


February 22,2024

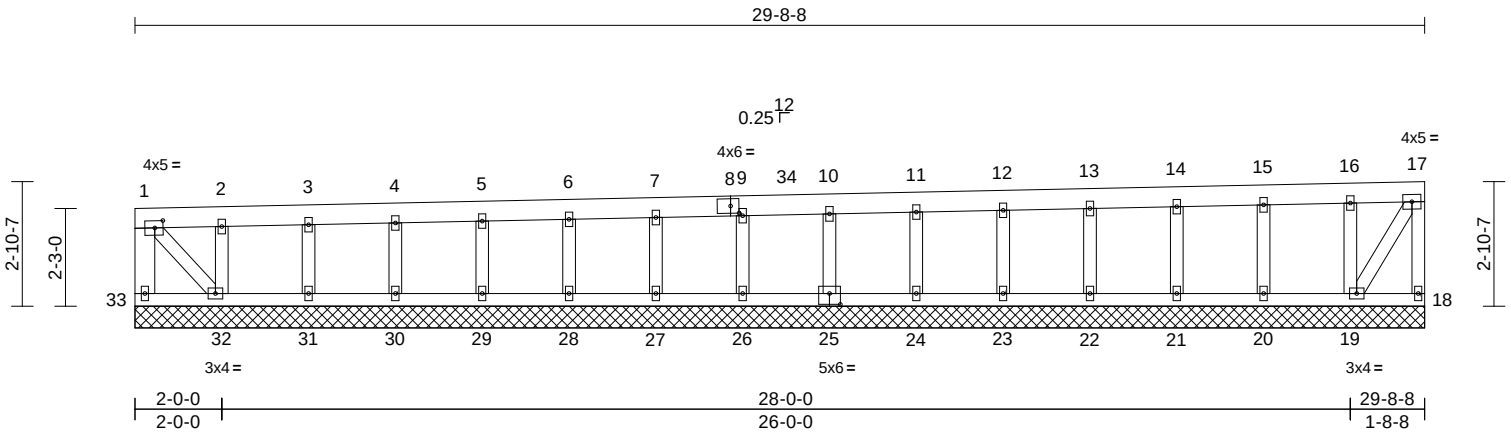


MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934139 |
|---|---|---|---|---|---|
| 3871615 | N12 | Monopitch Supported Gable | 1 | 2 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223, Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:14:42 Page: 1

ID:p81pf6tV6sXOHutgr4uWRLziwZz-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f PRMU20240139




Scale = 1:53.1

Plate Offsets (X, Y): [1:0-2-4,0-2-0], [8:0-2-5,0-2-0], [25:0-3-0,0-3-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.12 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 185/148 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.01 | Vert(TL) | n/a | - | n/a | 999 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.09 | Horiz(TL) | 0.00 | 18 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-SH | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 277 lb | FT = 10% |

**LUMBER**

TOP CHORD 2x6 DF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x4 HF No.2 *Except* 33-1:2x6 DF No.2
OTHERS 2x4 HF No.2

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 10-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except:
10-0-0 oc bracing: 32-33,18-19.

**REACTIONS** (size) 18=29-8-8, 19=29-8-8, 20=29-8-8, 21=29-8-8, 22=29-8-8, 23=29-8-8, 24=29-8-8, 25=29-8-8, 26=29-8-8, 27=29-8-8, 28=29-8-8, 29=29-8-8, 30=29-8-8, 31=29-8-8, 32=29-8-8, 33=29-8-8
Max Horiz 33=58 (LC 11)
Max Uplift 18=-32 (LC 12), 19=-85 (LC 8), 20=-95 (LC 12), 21=-92 (LC 8), 22=-92 (LC 12), 23=-92 (LC 8), 24=-95 (LC 12), 25=-83 (LC 8), 26=-20 (LC 12), 27=-10 (LC 8), 28=-13 (LC 12), 29=-2 (LC 8), 32=-1 (LC 9), 33=-8 (LC 8)
Max Grav 18=443 (LC 1), 19=1542 (LC 1), 20=1616 (LC 1), 21=1570 (LC 1), 22=1577 (LC 1), 23=1571 (LC 1), 24=1617 (LC 1), 25=1409 (LC 1), 26=335 (LC 1), 27=163 (LC 1), 28=204 (LC 1), 29=210 (LC 1), 30=220 (LC 1), 31=223 (LC 1), 32=253 (LC 1), 33=65 (LC 20)

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

TOP CHORD 1-33=-69/51, 1-2=-43/58, 2-3=-42/58, 3-4=-40/57, 4-5=-39/57, 5-6=-37/56, 6-7=-35/56, 7-9=-34/56, 9-10=-34/65, 10-11=-33/68, 11-12=-31/67, 12-13=-30/66, 13-14=-28/66, 14-15=-26/66, 15-16=-25/65, 16-17=-24/58, 17-18=-427/100
BOT CHORD 32-33=-95/93, 31-32=-46/41, 30-31=-46/41, 29-30=-46/41, 28-29=-46/41, 27-28=-46/41, 26-27=-46/41, 24-26=-46/41, 23-24=-46/41, 22-23=-46/41, 21-22=-46/41, 20-21=-46/41, 19-20=-46/41, 18-19=-24/39
WEBS 2-32=-177/39, 3-31=-183/41, 4-30=-180/39, 5-29=-170/50, 6-28=-164/62, 7-27=-123/53, 9-26=-295/84, 10-25=-1369/277, 11-24=-1577/314, 12-23=-1531/306, 13-22=-1537/307, 14-21=-1530/305, 15-20=-1575/315, 16-19=-1448/294, 1-32=-119/106, 17-19=-71/5

**NOTES**

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) interior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
4) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
5) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
6) Provide adequate drainage to prevent water ponding.
7) All plates are 2x4 MT20 unless otherwise indicated.
8) Gable requires continuous bottom chord bearing.
9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
10) Gable studs spaced at 2-0-0 oc.
11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
12) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
13) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.


February 22,2024

Continued on page 2



MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

14) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 8 lb uplift at joint 33, 32 lb uplift at joint 18, 1 lb uplift at joint 32, 2 lb uplift at joint 29, 13 lb uplift at joint 28, 10 lb uplift at joint 27, 20 lb uplift at joint 26, 83 lb uplift at joint 25, 95 lb uplift at joint 24, 92 lb uplift at joint 23, 92 lb uplift at joint 22, 92 lb uplift at joint 21, 95 lb uplift at joint 20 and 85 lb uplift at joint 19.
15) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
16) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

**LOAD CASE(S)** Standard

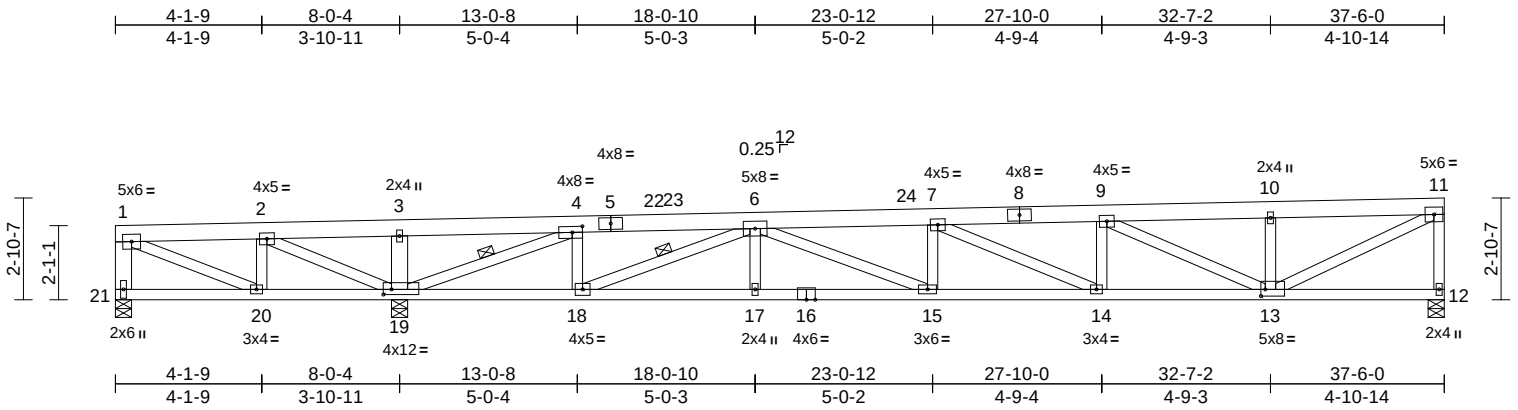
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (lb/ft)
   Vert: 1-5=-90, 5-34=-80, 17-34=-768, 18-33=-20

| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934140 |
|---|---|---|---|---|---|
| 3871615 | N13 | Monopitch Girder | 1 | 1 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:14:44 Page: 1
ID:MVa9blML0z0lUttHlqutT?ziwu?-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

PRMU20240139




Scale = 1:65

Plate Offsets (X, Y): [4:0-3-7,0-2-0], [13:0-1-8,0-2-4], [19:0-2-12,0-1-12]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.46 | Vert(LL) | -0.26 | 15-17 | >999 | 240 | MT20 | 185/148 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.70 | Vert(CT) | -0.52 | 15-17 | >674 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.76 | Horz(CT) | 0.09 | 12 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-SH | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 191 lb | FT = 10% |

**LUMBER**
TOP CHORD 2x6 DF No.2 *Except* 1-5:2x6 DF 2400F 2.0E
BOT CHORD 2x4 HF No.2 *Except* 16-12:2x4 DF 1800F 1.6E
WEBS 2x4 HF No.2 *Except* 21-1,3-19:2x6 DF No.2

**BRACING**
TOP CHORD Structural wood sheathing directly applied or 3-8-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-2-15 oc bracing.
WEBS 1 Row at midpt 4-19, 6-18

**REACTIONS** (size) 12=0-5-8, 19=0-5-8, 21=0-5-8
Max Horiz 21=62 (LC 11)
Max Uplift 12=-94 (LC 12), 19=-103 (LC 12), 21=-568 (LC 1)
Max Grav 12=1318 (LC 1), 19=3325 (LC 1), 21=71 (LC 12)

**FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-21=-103/602, 1-2=-259/1637, 2-3=-519/3780, 3-4=-516/3777, 4-6=-248/45, 6-7=-3962/615, 7-9=-3535/541, 9-10=-2212/344, 10-11=-2213/348, 11-12=-1269/210
BOT CHORD 20-21=-88/71, 19-20=-1632/283, 18-19=-39/243, 17-18=-395/2801, 15-17=-395/2801, 14-15=-610/3957, 13-14=-533/3531, 12-13=-23/45
WEBS 3-19=-618/90, 2-19=-2359/289, 2-20=-72/775, 1-20=-1774/298, 7-15=-179/178, 4-19=-4319/494, 6-15=-233/1252, 4-18=-99/1149, 6-18=-2771/422, 6-17=0/200, 11-13=-354/2452, 9-14=0/315, 7-14=-469/86, 9-13=-1468/222, 10-13=-406/136

**NOTES**

1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) 0-2-12 to 15-2-12, Exterior (2) 15-2-12 to 22-4-4, Corner (3) 22-4-4 to 37-4-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 568 lb uplift at joint 21, 94 lb uplift at joint 12 and 103 lb uplift at joint 19.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 207 lb down and 64 lb up at 22-10-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-23=-90, 11-23=-80, 12-21=-20
Concentrated Loads (lb)
Vert: 15=-207 (B)


February 22,2024



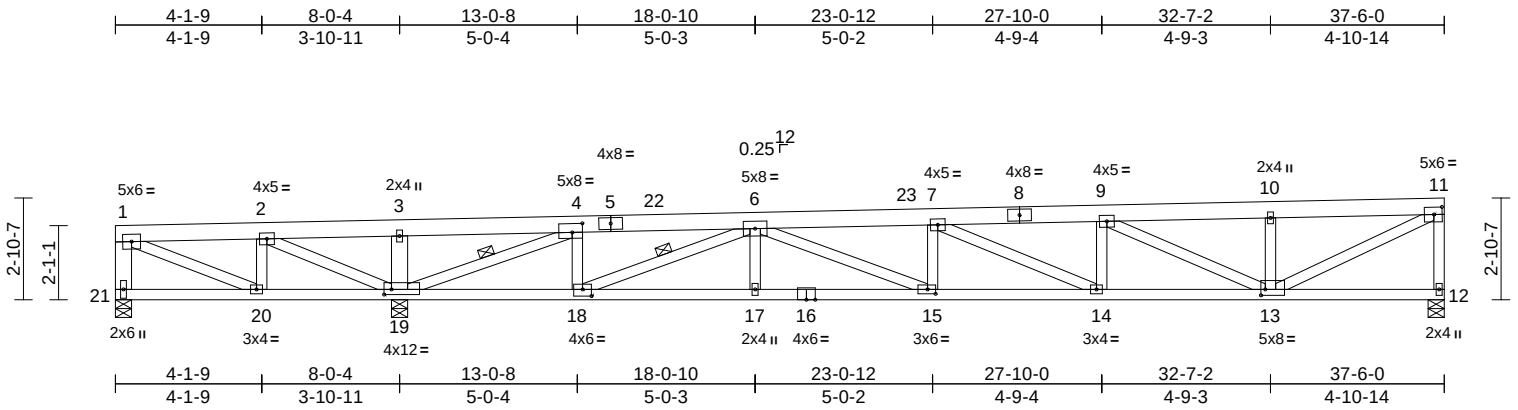

MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934141 |
|---|---|---|---|---|---|
| 3871615 | N14 | Monopitch Girder | 1 | 1 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:14:47 Page: 1
ID:45KvhkK437wxQ?AkI1hB8lziwjj-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

PRMU20240139




Scale = 1:65

Plate Offsets (X, Y): [4:0-3-7,0-3-0], [11:0-2-12,0-2-8], [13:0-1-8,0-2-0], [15:0-2-12,0-1-8], [18:0-3-0,0-2-4], [19:0-2-8,0-1-12]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 1.00 | Vert(LL) | -0.30 | 15-17 | >999 | 240 | MT20 | 185/148 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.78 | Vert(CT) | -0.59 | 15-17 | >600 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.85 | Horz(CT) | 0.10 | 12 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-SH | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 191 lb | FT = 10% |

**LUMBER**
TOP CHORD 2x6 DF No.2
BOT CHORD 2x4 HF No.2 *Except* 16-12:2x4 DF 1800F 1.6E
WEBS 2x4 HF No.2 *Except* 21-1,19-3:2x6 DF No.2

**BRACING**
TOP CHORD Structural wood sheathing directly applied or 3-4-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-1-9 oc bracing.
WEBS 1 Row at midpt 6-18, 4-19

**REACTIONS** (size) 12=0-5-8, 19=0-5-8, 21=0-5-8
Max Horiz 21=62 (LC 9)
Max Uplift 12=-125 (LC 12), 19=-296 (LC 12), 21=-620 (LC 1)
Max Grav 12=1411 (LC 1), 19=3336 (LC 1), 21=76 (LC 12)

**FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-21=-104/653, 1-2=-299/1709, 2-3=-666/3862, 3-4=-662/3859, 4-6=-348/108, 6-7=-4550/819, 7-9=-3918/673, 9-10=-2395/407, 10-11=-2396/411, 11-12=-1361/242
BOT CHORD 20-21=-96/70, 19-20=-1705/326, 18-19=-105/343, 17-18=-541/3153, 15-17=-541/3153, 14-15=-815/4545, 13-14=-667/3914, 12-13=-24/46
WEBS 10-13=-404/137, 11-13=-425/2656, 9-14=-14/386, 9-13=-1691/299, 7-15=-128/243, 7-14=-695/163, 6-17=0/200, 6-15=-298/1508, 4-18=-133/1253, 6-18=-3044/516, 2-20=-89/806, 1-20=-1854/347, 3-19=-548/144, 2-19=-2370/406, 4-19=-4515/716

**NOTES**

1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) 0-2-12 to 15-2-12, Exterior (2) 15-2-12 to 22-4-4, Corner (3) 22-4-4 to 37-4-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 620 lb uplift at joint 21, 125 lb uplift at joint 12 and 296 lb uplift at joint 19.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 207 lb down and 64 lb up at 22-10-12, and 218 lb down and 64 lb up at 22-10-12 on bottom chord. The design/ selection of such connection device(s) is the responsibility of others.
10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-11=-80, 12-21=-20
Concentrated Loads (lb)
Vert: 15=-415 (F=-207, B=-207)


February 22,2024



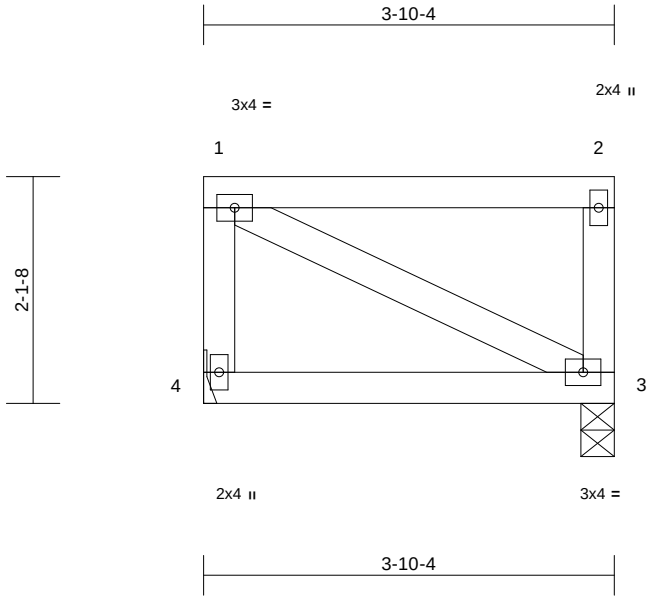

MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934142 |
|---|---|---|---|---|---|
| 3871615 | N15 | Flat | 1 | 1 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:14:48 Page: 1
ID:ZeXQk8N1oZlkkDlGK5ELduziwiN-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

PRMU20240139




Scale = 1:21.6

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.27 | Vert(LL) | -0.01 | 3-4 | >999 | 240 | MT20 | 185/148 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.13 | Vert(CT) | -0.02 | 3-4 | >999 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | YES | WB | 0.01 | Horz(CT) | 0.00 | 3 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 17 lb | FT = 10% |

**LUMBER**
TOP CHORD 2x4 HF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x4 HF No.2

**BRACING**
TOP CHORD Structural wood sheathing directly applied or 3-10-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (size) 3=0-3-12, 4= Mechanical
Max Horiz 4=45 (LC 11)
Max Uplift 3=-26 (LC 9), 4=-22 (LC 8)
Max Grav 3=180 (LC 1), 4=178 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-4=-143/132, 1-2=-23/25, 2-3=-144/112
BOT CHORD 3-4=-63/65
WEBS 1-3=-46/46

**NOTES**
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 22 lb uplift at joint 4 and 26 lb uplift at joint 3.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 7 lb down and 24 lb up at 3-8-8 on top chord. The design/ selection of such connection device(s) is the responsibility of others.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-80, 3-4=-20
Concentrated Loads (lb)
Vert: 2=-2 (F)


February 22,2024



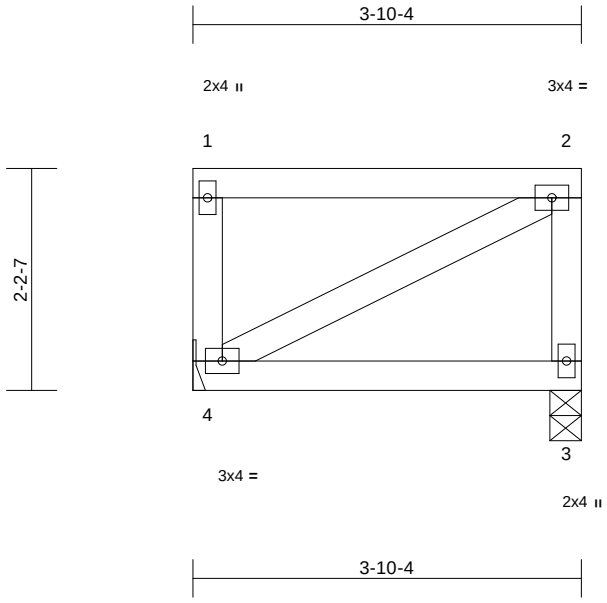
MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934143 |
|---|---|---|---|---|---|
| 3871615 | N16 | Flat | 1 | 1 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:14:49 Page: 1

ID:i0SSRwtg183QqbtMbUhgn1ziwLm-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f PRMU20240139




Scale = 1:22.9

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.27 | Vert(LL) | -0.01 | 3-4 | >999 | 240 | MT20 | 185/148 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.13 | Vert(CT) | -0.02 | 3-4 | >999 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | YES | WB | 0.02 | Horz(CT) | n/a | - | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 17 lb | FT = 10% |

**LUMBER**

TOP CHORD 2x4 HF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x4 HF No.2

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 3-10-4 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (size) 3=0-3-12, 4= Mechanical
Max Uplift 3=-10 (LC 8), 4=-10 (LC 8)
Max Grav 3=178 (LC 1), 4=178 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/0
BOT CHORD 3-4=0/0
WEBS 1-4=-143/112, 2-3=-143/112, 2-4=0/0

**NOTES**

1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 10 lb uplift at joint 3 and 10 lb uplift at joint 4.
9) 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


February 22,2024



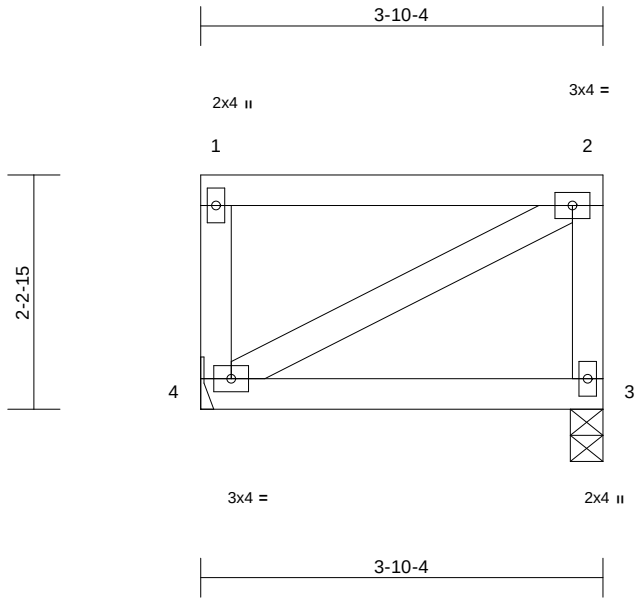
MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934144 |
|---|---|---|---|---|---|
| 3871615 | N16A | Flat | 1 | 1 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:14:49 Page: 1
ID:kcQi4lNyzxTQ??Tv1gNS_zziwHF-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

PRMU20240139




Scale = 1:22.1

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.27 | Vert(LL) | -0.01 | 3-4 | >999 | 240 | MT20 | 185/148 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.13 | Vert(CT) | -0.02 | 3-4 | >999 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | YES | WB | 0.01 | Horz(CT) | 0.00 | 3 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 17 lb | FT = 10% |

**LUMBER**
TOP CHORD 2x4 HF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x4 HF No.2

**BRACING**
TOP CHORD Structural wood sheathing directly applied or 3-10-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (size) 3=0-3-12, 4= Mechanical
Max Horiz 4=-48 (LC 8)
Max Uplift 3=-24 (LC 9), 4=-24 (LC 8)
Max Grav 3=178 (LC 1), 4=178 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-4=-143/112, 1-2=-24/26, 2-3=-143/135
BOT CHORD 3-4=-24/26
WEBS 2-4=-49/49

**NOTES**
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 24 lb uplift at joint 4 and 24 lb uplift at joint 3.
9) 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


February 22,2024



MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

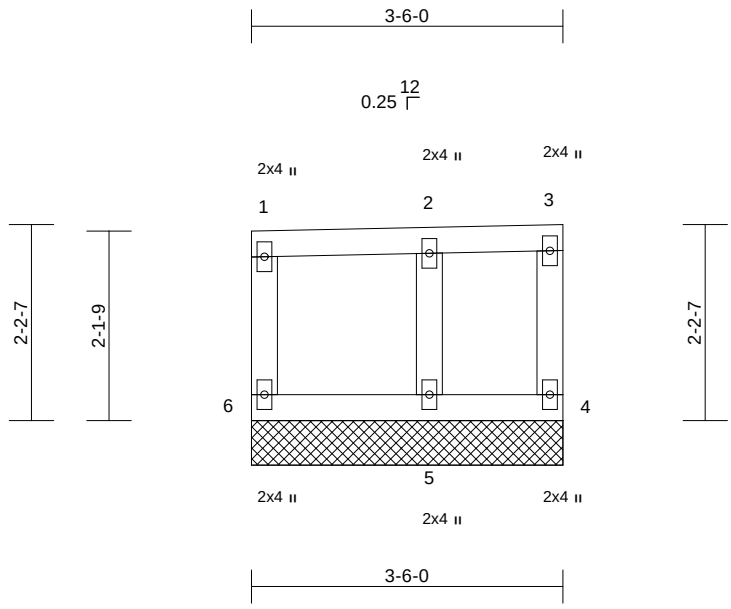
| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934145 |
|---|---|---|---|---|---|
| 3871615 | N17 | Jack-Open Supported Gable | 1 | 1 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:14:50 Page: 1

ID:ZeXQk8N1oZlkkDlGK5ELduziwiN-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

PRMU20240139




Scale = 1:25.9

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.05 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 185/148 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.05 | Vert(TL) | n/a | - | n/a | 999 | | |
| TCDL | 15.0 | Rep Stress Incr | YES | WB | 0.02 | Horiz(TL) | 0.00 | 4 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-R | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 14 lb | FT = 10% |

**LUMBER**

| | |
|---|---|
| TOP CHORD | 2x4 HF No.2 |
| BOT CHORD | 2x4 HF No.2 |
| WEBS | 2x4 HF No.2 |
| OTHERS | 2x4 HF No.2 |

**BRACING**

| | |
|---|---|
| TOP CHORD | Structural wood sheathing directly applied or 3-6-0 oc purlins, except end verticals. |
| BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing. |

**REACTIONS** (size) 4=3-6-0, 5=3-6-0, 6=3-6-0
Max Horiz 6=47 (LC 9)
Max Uplift 4=-14 (LC 9), 5=-14 (LC 8), 6=-16 (LC 8)
Max Grav 4=51 (LC 1), 5=190 (LC 1), 6=80 (LC 1)

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

| | |
|---|---|
| TOP CHORD | 1-6=-65/61, 1-2=-8/9, 2-3=-8/11, 3-4=-40/47 |
| BOT CHORD | 5-6=-45/52, 4-5=-45/52 |
| WEBS | 2-5=-152/121 |

**NOTES**

1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
10) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 16 lb uplift at joint 6, 14 lb uplift at joint 4 and 14 lb uplift at joint 5.
12) 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


February 22,2024



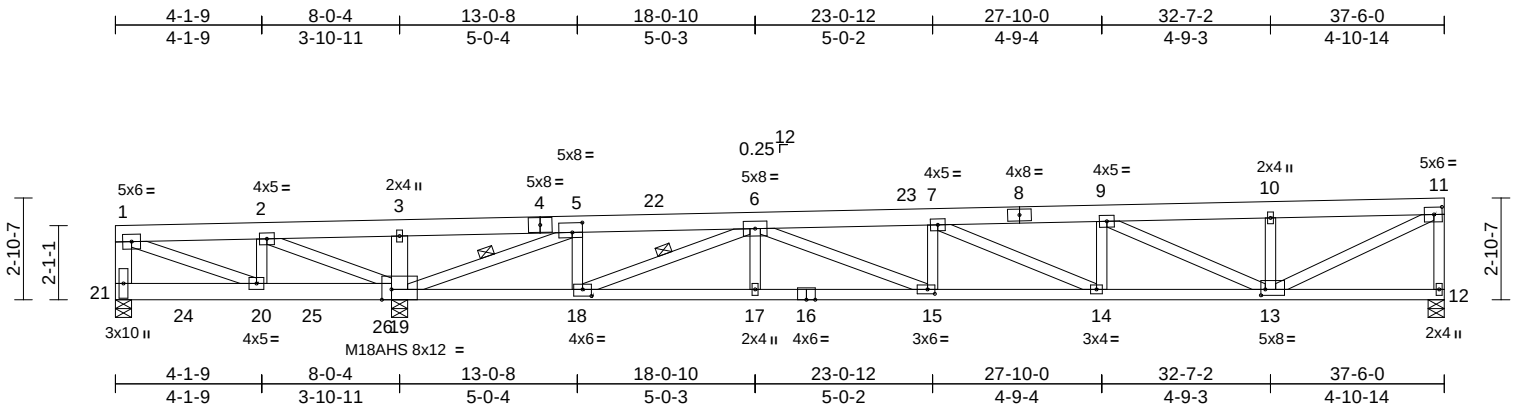
MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934146 |
|---|---|---|---|---|---|
| 3871615 | N18 | Monopitch Girder | 1 | 1 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:14:50 Page: 1
ID:gqC9t38DNOb8nnVzAbL93fziw3L-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

PRMU20240139




Scale = 1:65

Plate Offsets (X, Y): [5:0-3-7,0-3-4], [11:0-2-12,0-2-8], [13:0-1-8,0-2-0], [15:0-2-8,0-1-8], [18:0-3-0,0-2-4], [19:0-3-4,Edge]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.64 | Vert(LL) | -0.28 | 15-17 | >999 | 240 | MT20 | 220/195 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.76 | Vert(CT) | -0.56 | 15-17 | >630 | 180 | M18AHS | 145/140 |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.82 | Horz(CT) | 0.10 | 12 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-SH | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 198 lb | FT = 10% |

**LUMBER**

TOP CHORD 2x6 DF 2400F 2.0E *Except* 8-4:2x6 DF No.2
BOT CHORD 2x6 DF No.2 *Except* 16-12:2x4 DF 1800F 1.6E, 19-16:2x4 HF No.2
WEBS 2x4 HF No.2 *Except* 21-1,19-3:2x6 DF No.2

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 3-5-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-11-8 oc bracing.
WEBS 1 Row at midpt 5-19, 6-18

**REACTIONS** (size) 12=0-5-8, 19=(0-5-8 + Two SBP6 MiTek), (req. 0-6-2), 21=0-5-8
Max Horiz 21=58 (LC 11)
Max Uplift 12=-123 (LC 12), 19=-364 (LC 12), 21=-511 (LC 1)
Max Grav 12=1390 (LC 1), 19=3719 (LC 1), 21=49 (LC 12)

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

TOP CHORD 1-21=-92/597, 1-2=-295/1705, 2-3=-705/4089, 3-5=-701/4085, 5-6=-96/123, 6-7=-4413/798, 7-9=-3824/660, 9-10=-2353/401, 10-11=-2354/405, 11-12=-1341/239
BOT CHORD 20-21=-92/58, 18-20=-1707/322, 17-18=-512/2972, 15-17=-512/2972, 14-15=-795/4409, 13-14=-653/3820, 12-13=-23/45
WEBS 3-19=-600/153, 2-20=-119/964, 1-20=-1817/336, 2-19=-2624/455, 5-18=-136/1262, 5-19=-4489/715, 6-17=0/204, 7-15=-133/241, 9-14=-11/367, 10-13=-407/137, 9-13=-1633/291, 11-13=-419/2611, 7-14=-648/156, 6-15=-306/1556, 6-18=-3120/529

**NOTES**

1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) interior zone and C-C Corner (3) 0-2-12 to 15-2-12, Exterior (2) 15-2-12 to 22-4-4, Corner (3) 22-4-4 to 37-4-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 511 lb uplift at joint 21, 123 lb uplift at joint 12 and 364 lb uplift at joint 19.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 158 lb down and 34 lb up at 1-11-4, 158 lb down and 22 lb up at 5-6-12, 158 lb down and 36 lb up at 7-6-11, and 205 lb down and 64 lb up at 22-10-12, and 218 lb down and 64 lb up at 22-10-12 on bottom chord. The design/ selection of such connection device(s) is the responsibility of others.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-11=-80, 12-21=-20
Concentrated Loads (lb)
Vert: 15=-412 (F=-207, B=-205), 24=-158 (B), 25=-158 (B), 26=-158 (B)


February 22,2024



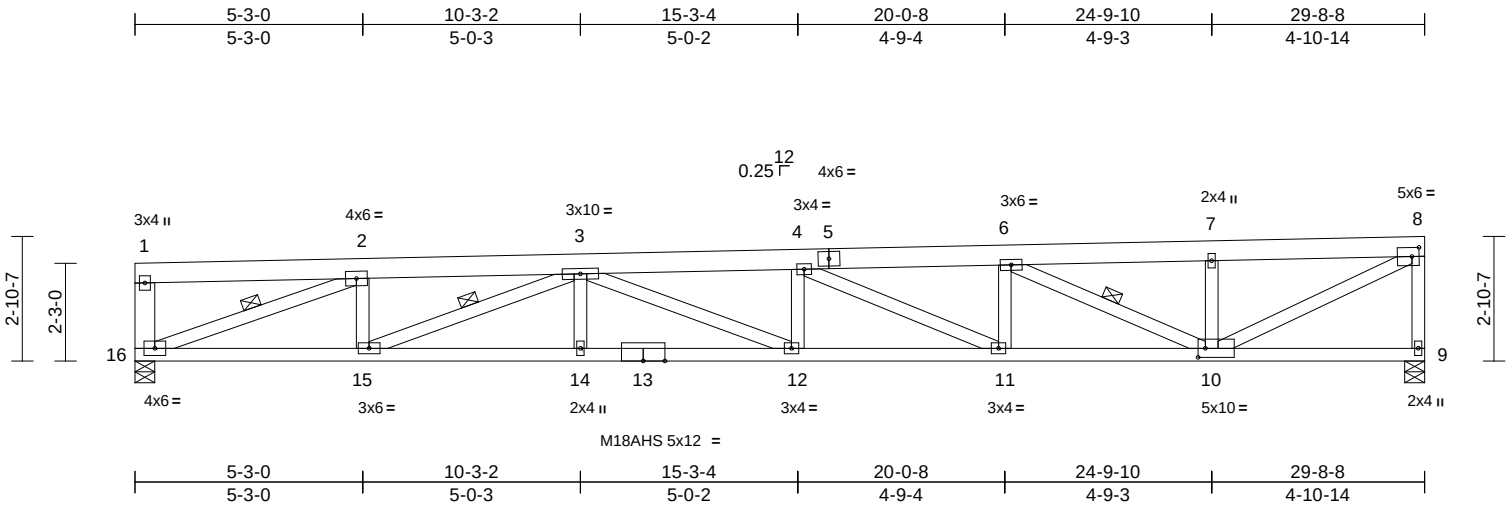

MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934147 |
|---|---|---|---|---|---|
| 3871615 | N19 | Common | 1 | 1 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:14:53 Page: 1
ID:9JKrgaSfquB9gSrhhia??8ziwNc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

PRMU20240139




Scale = 1:53.1

Plate Offsets (X, Y): [8:0-2-0,0-2-8], [10:0-2-0,0-2-8]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.53 | Vert(LL) | -0.40 | 12-14 | >874 | 240 | MT20 | 185/148 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.98 | Vert(CT) | -0.80 | 12-14 | >441 | 180 | M18AHS | 169/162 |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.69 | Horz(CT) | 0.18 | 9 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-SH | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 154 lb | FT = 10% |

**LUMBER**
TOP CHORD 2x6 DF No.2
BOT CHORD 2x4 DF 1800F 1.6E
WEBS 2x4 HF No.2 *Except* 16-1:2x6 DF No.2

**BRACING**
TOP CHORD Structural wood sheathing directly applied or 2-8-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-5-2 oc bracing.
WEBS 1 Row at midpt 6-10, 3-15, 2-16

**REACTIONS** (size) 9=0-5-8, 16=0-5-8
Max Horiz 16=58 (LC 9)
Max Uplift 9=-151 (LC 12), 16=-149 (LC 8)
Max Grav 9=1678 (LC 1), 16=1667 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-16=-234/78, 1-2=-146/53, 2-3=-3609/728, 3-4=-6271/1310, 4-6=-5015/1031, 6-7=-2921/602, 7-8=-2922/606, 8-9=-1626/355
BOT CHORD 15-16=-788/3605, 14-15=-1189/5586, 12-14=-1189/5586, 11-12=-1350/6266, 10-11=-1053/5011, 9-10=-26/49
WEBS 2-15=-107/914, 3-14=0/198, 4-12=-47/259, 6-11=-83/673, 7-10=-404/160, 8-10=-658/3245, 6-10=-2323/493, 4-11=-1382/327, 3-12=-191/737, 3-15=-2146/455, 2-16=-3725/746

**NOTES**
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) interior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 149 lb uplift at joint 16 and 151 lb uplift at joint 9.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 216 lb down and 64 lb up at 15-1-4, and 207 lb down and 64 lb up at 15-1-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-8=-80, 9-16=-20
Concentrated Loads (lb)
Vert: 12=-412 (F=-205, B=-207)


February 22,2024



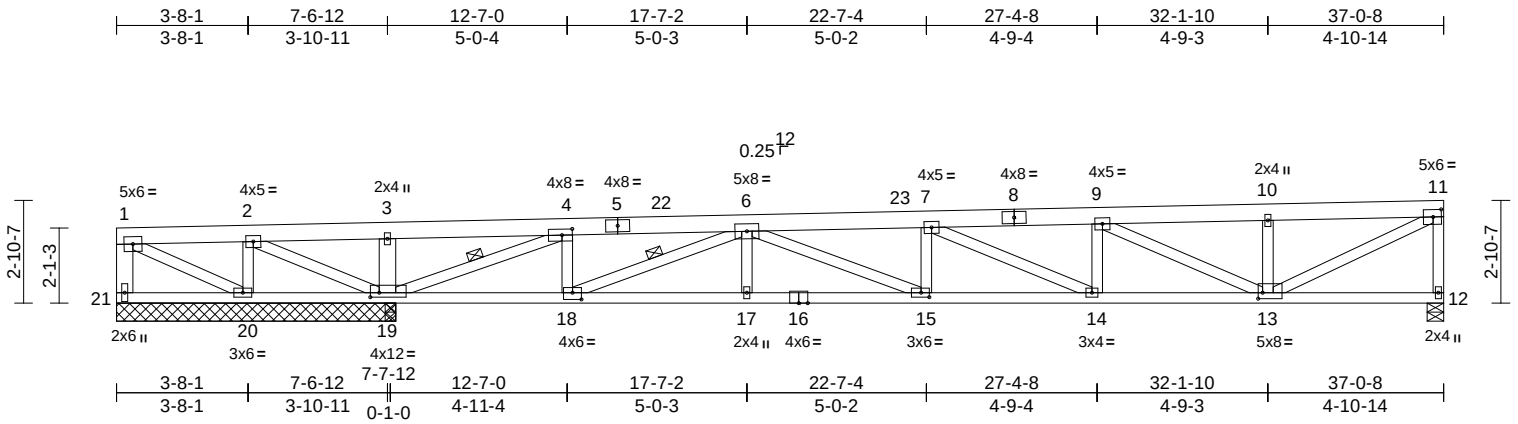
MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934148 |
|---|---|---|---|---|---|
| 3871615 | N20 | Monopitch Girder | 1 | 1 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:14:55 Page: 1

ID:0m2B_wel_NZYYM9a2RlxsOzivgA-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f PRMU20240139




Scale = 1:64.3

Plate Offsets (X, Y): [4:0-3-7,0-2-0], [11:0-2-12,0-2-8], [13:0-1-8,0-2-0], [15:0-2-12,0-1-8], [18:0-3-0,0-2-4], [19:0-3-0,0-1-8]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.49 | Vert(LL) | -0.28 | 15-17 | >999 | 240 | MT20 | 185/148 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.73 | Vert(CT) | -0.56 | 15-17 | >628 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.93 | Horz(CT) | 0.10 | 12 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-SH | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 189 lb | FT = 10% |

**LUMBER**

TOP CHORD 2x6 DF No.2 *Except* 1-5:2x6 DF 2400F 2.0E

BOT CHORD 2x4 HF No.2 *Except* 16-12:2x4 DF 1800F 1.6E

WEBS 2x4 HF No.2 *Except* 21-1,19-3:2x6 DF No.2

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 3-5-13 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 4-6-4 oc bracing.

WEBS 1 Row at midpt 4-19, 6-18

**REACTIONS** (size) 12=0-5-8, 19=7-9-8, 20=7-9-8, 21=7-9-8

Max Horiz 21=58 (LC 11)

Max Uplift 12=-124 (LC 12), 19=-344 (LC 12), 20=-376 (LC 1), 21=-575 (LC 1)

Max Grav 12=1381 (LC 1), 19=3625 (LC 1), 20=60 (LC 8), 21=63 (LC 12)

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

TOP CHORD 1-21=-107/609, 1-2=-263/1431, 2-3=-722/4074, 3-4=-718/4070, 4-6=-102/117, 6-7=-4355/811, 7-9=-3792/671, 9-10=-2335/407, 10-11=-2335/411, 11-12=-1330/242

BOT CHORD 20-21=-92/69, 19-20=-1428/268, 18-19=-114/116, 17-18=-518/2939, 15-17=-518/2939, 14-15=-807/4349, 13-14=-664/3788, 12-13=-24/46

WEBS 10-13=-405/138, 9-14=-12/354, 7-15=-135/241, 6-17=0/201, 4-18=-141/1265, 2-20=-152/1132, 3-19=-620/159, 2-19=-2907/509, 1-20=-1588/314, 4-19=-4478/730, 6-18=-3079/537, 6-15=-314/1528, 7-14=-617/157, 9-13=-1618/296, 11-13=-425/2589

**NOTES**

1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) interior zone and C-C Corner (3) 0-2-12 to 15-2-12, Exterior (2) 15-2-12 to 21-10-12, Corner (3) 21-10-12 to 36-10-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 575 lb uplift at joint 21, 124 lb uplift at joint 12, 376 lb uplift at joint 20 and 344 lb uplift at joint 19.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 185 lb down and 67 lb up at 22-5-4, and 218 lb down and 64 lb up at 22-5-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-11=-80, 12-21=-20
Concentrated Loads (lb)
Vert: 15=-389 (F=-207, B=-181)


February 22,2024



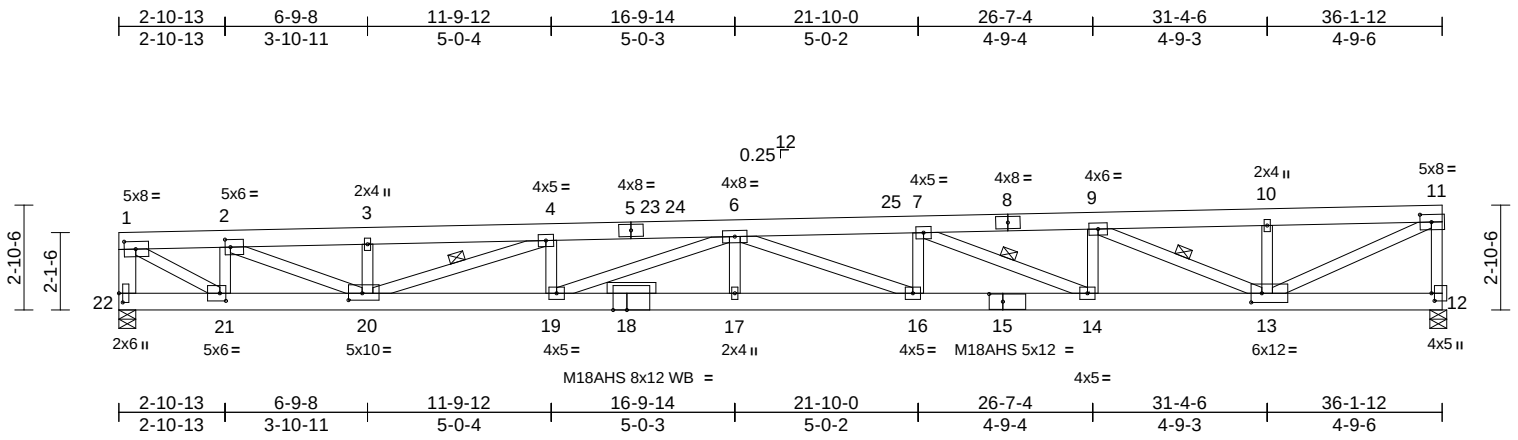

MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934149 |
|---|---|---|---|---|---|
| 3871615 | N21 | Monopitch Girder | 6 | 1 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:14:56 Page: 1
ID:02cUZ5xZfZ1jqtw7?qTYFgziw_S-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

PRMU20240139




Scale = 1:62.9

Plate Offsets (X, Y): [1:0-3-12,0-2-8], [2:0-1-12,0-2-8], [11:0-3-12,0-2-8], [12:0-2-8,0-1-0], [13:0-3-8,0-3-0], [15:0-4-8,0-2-8], [18:0-4-8,Edge], [20:0-4-8,0-2-4], [21:0-2-0,0-2-8], [22:0-3-0,0-1-4]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.75 | Vert(LL) | -0.60 | 16-17 | >716 | 240 | MT20 | 220/195 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.65 | Vert(CT) | -1.22 | 16-17 | >352 | 180 | M18AHS | 169/162 |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.85 | Horz(CT) | 0.16 | 12 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-SH | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 215 lb | FT = 10% |

**LUMBER**
TOP CHORD 2x6 DF No.2
BOT CHORD 2x6 DF 2400F 2.0E
WEBS 2x4 HF No.2 *Except* 22-1:2x6 DF No.2
OTHERS 2x4 HF No.2

**BRACING**
TOP CHORD Structural wood sheathing directly applied or 2-0-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-11-9 oc bracing.
WEBS 1 Row at midpt 9-13, 7-14, 4-20

**REACTIONS** (size) 12=0-5-8, 22=0-5-8
Max Horiz 22=56 (LC 11)
Max Uplift 12=-155 (LC 12), 22=-42 (LC 8)
Max Grav 12=2052 (LC 1), 22=2057 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-22=-1969/195, 1-2=-2988/298, 2-3=-6145/635, 3-4=-6145/638, 4-6=-8552/984, 6-7=-8915/1337, 7-9=-6714/1014, 9-10=-3660/561, 10-11=-3660/565, 11-12=-1974/319
BOT CHORD 21-22=-104/181, 20-21=-363/2984, 19-20=-1039/8547, 17-19=-1298/9419, 16-17=-1298/9419, 14-16=-1364/8909, 13-14=-1027/6710, 12-13=-30/63
WEBS 2-21=-1709/210, 3-20=-407/74, 4-19=-45/425, 6-17=0/215, 7-16=-35/656, 9-14=-100/1088, 10-13=-382/137, 11-13=-600/4048, 9-13=-3367/512, 7-14=-2405/368, 6-16=-550/220, 6-19=-940/294, 4-20=-2574/381, 2-20=-377/3450, 1-21=-316/3302

**NOTES**

1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) interior zone and C-C Corner (3) 0-2-12 to 15-2-12, Exterior (2) 15-2-12 to 21-1-8, Corner (3) 21-1-8 to 36-1-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 42 lb uplift at joint 22 and 155 lb uplift at joint 12.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 199 lb down and 67 lb up at 21-8-0, and 207 lb down and 64 lb up at 21-8-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-23=-90, 11-23=-80, 12-22=-20
Concentrated Loads (lb)
Vert: 16=-389 (F=-181, B=-207)


February 22,2024



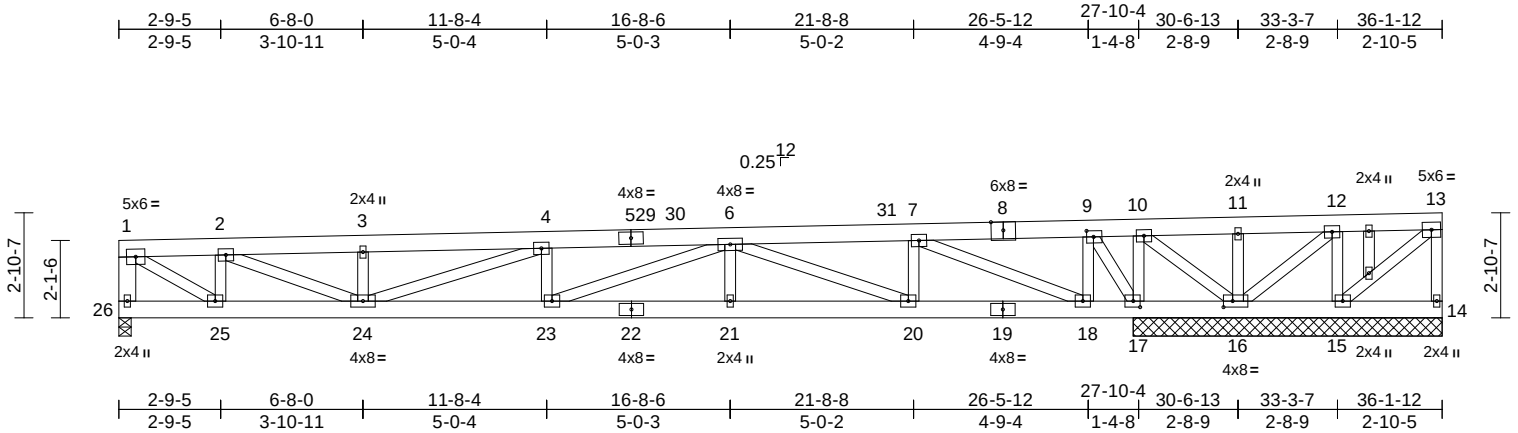

MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934150 |
|---|---|---|---|---|---|
| 3871615 | N23 | Monopitch | 1 | 2 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:14:58 Page: 1
ID:CiiHa6qqQFW70zhvkTrG5Dziuta-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

PRMU20240139




Scale = 1:62.9

Plate Offsets (X, Y): [9:0-2-4,0-2-0], [16:0-3-0,0-2-0], [17:0-2-4,0-2-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.68 | Vert(LL) | -0.12 | 21-23 | >999 | 240 | MT20 | 220/195 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.44 | Vert(CT) | -0.25 | 21-23 | >999 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.68 | Horz(CT) | 0.04 | 17 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-SH | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 440 lb | FT = 10% |

**LUMBER**

TOP CHORD 2x6 DF No.2 *Except* 8-13:2x6 DF 2400F 2.0E
BOT CHORD 2x6 DF No.2
WEBS 2x4 HF No.2 *Except* 26-1:2x6 DF No.2
OTHERS 2x4 HF No.2

**BRACING**

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

**REACTIONS** (size) 14=8-5-4, 15=8-5-4, 16=8-5-4, 17=8-5-4, 26=0-4-0
Max Horiz 26=123 (LC 39)
Max Uplift 14=-589 (LC 27), 15=-207 (LC 32), 16=-263 (LC 33), 17=-840 (LC 40), 26=-77 (LC 32)
Max Grav 14=398 (LC 40), 15=1973 (LC 57), 16=1466 (LC 56), 17=9265 (LC 1), 26=1419 (LC 1)

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

TOP CHORD 1-26=-1355/186, 1-2=-1920/278, 2-3=-3819/439, 3-4=-3820/773, 4-6=-4759/1032, 6-7=-3058/975, 7-9=-1076/2999, 9-10=-1532/5907, 10-11=-912/3494, 11-12=-1106/3611, 12-13=-619/1501, 13-14=-402/602
BOT CHORD 25-26=-150/144, 24-25=-282/1917, 23-24=-958/4753, 21-23=-1180/4196, 20-21=-1180/4196, 18-20=-1299/3273, 17-18=-3158/1283, 16-17=-6012/1767, 15-16=-2056/1338, 14-15=-856/844
WEBS 2-25=-1139/202, 3-24=-398/76, 4-23=-178/125, 6-21=0/228, 7-20=-35/612, 9-18=-280/1939, 7-18=-5959/907, 6-20=-1557/293, 6-23=-160/690, 4-24=-1054/357, 2-24=-374/2074, 1-25=-287/2153, 10-17=-3132/854, 9-17=-6073/914, 11-16=-1827/310, 12-15=-944/482, 10-16=-1072/3313, 12-16=-2952/871, 13-15=-2000/813

**NOTES**

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) 0-2-12 to 15-2-12, Exterior (2) 15-2-12 to 21-0-0, Corner (3) 21-0-0 to 36-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
4) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
5) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
6) Provide adequate drainage to prevent water ponding.
7) All plates are 4x5 MT20 unless otherwise indicated.
8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
9) Gable studs spaced at 2-0-0 oc.
10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
11) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
12) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 77 lb uplift at joint 26, 589 lb uplift at joint 14, 840 lb uplift at joint 17, 263 lb uplift at joint 16 and 207 lb uplift at joint 15.


February 22,2024

Continued on page 2



MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

14) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
15) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
16) This truss has been designed for a total drag load of 2600 lb. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 27-8-8 to 36-1-12 for 308.1 plf.
17) Studding applied to ply: 2(Back)

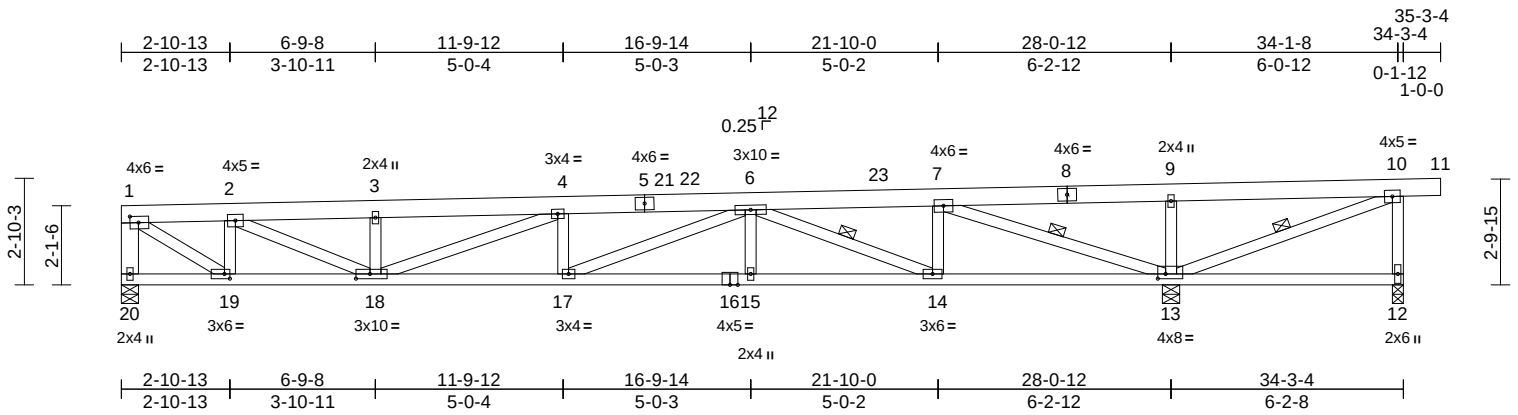
**LOAD CASE(S)** Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (lb/ft)
   Vert: 1-29=-90, 7-29=-80, 7-13=-768, 14-26=-20

| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934151 |
|---|---|---|---|---|---|
| 3871615 | N24 | Monopitch | 6 | 1 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:15:00 Page: 1
ID:d4w9FkRqWeCoKYJhqsCH3ozivOM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC? PRMU20240139




Scale = 1:61.6

Plate Offsets (X, Y): [1:0-2-12,0-2-0], [13:0-2-8,0-1-8], [18:0-4-8,0-1-8], [19:0-1-12,0-1-8]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.79 | Vert(LL) | -0.23 | 15-17 | >999 | 240 | MT20 | 220/195 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.80 | Vert(CT) | -0.50 | 15-17 | >669 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | YES | WB | 0.84 | Horz(CT) | 0.10 | 12 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-SH | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 172 lb | FT = 10% |

**LUMBER**
TOP CHORD 2x6 DF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x4 HF No.2 *Except* 20-1:2x6 DF No.2

**BRACING**
TOP CHORD Structural wood sheathing directly applied or 3-10-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 10-13, 7-13, 6-14

**REACTIONS** (size) 12=0-3-8, 13=0-5-8, 20=0-5-8
Max Horiz 20=19 (LC 8)
Max Uplift 12=-733 (LC 1), 13=-83 (LC 8)
Max Grav 12=-19 (LC 8), 13=3107 (LC 1), 20=1251 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-1661/104, 2-3=-3166/211, 3-4=-3168/214, 4-6=-3622/278, 6-7=-786/108, 7-9=-269/2671, 9-10=-263/2667, 10-11=-3/0
BOT CHORD 19-20=-26/11, 18-19=-128/1659, 17-18=-293/3617, 15-17=-279/2731, 14-15=-279/2731, 13-14=-119/782, 12-13=0/0
WEBS 10-12=-17/771, 1-20=-1227/87, 9-13=-653/200, 10-13=-2872/281, 2-19=-1016/108, 3-18=-423/79, 4-17=-270/68, 6-15=0/196, 7-14=0/908, 7-13=-3653/402, 6-14=-2112/173, 6-17=-16/959, 4-18=-488/65, 1-19=-122/1981, 2-18=-115/1657

**NOTES**

1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) 0-2-12 to 15-2-12, Exterior (2) 15-2-12 to 20-3-4, Corner (3) 20-3-4 to 35-3-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
3) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 733 lb uplift at joint 12 and 83 lb uplift at joint 13.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

**LOAD CASE(S)** Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-21=-90, 11-21=-80, 12-20=-20


February 22,2024



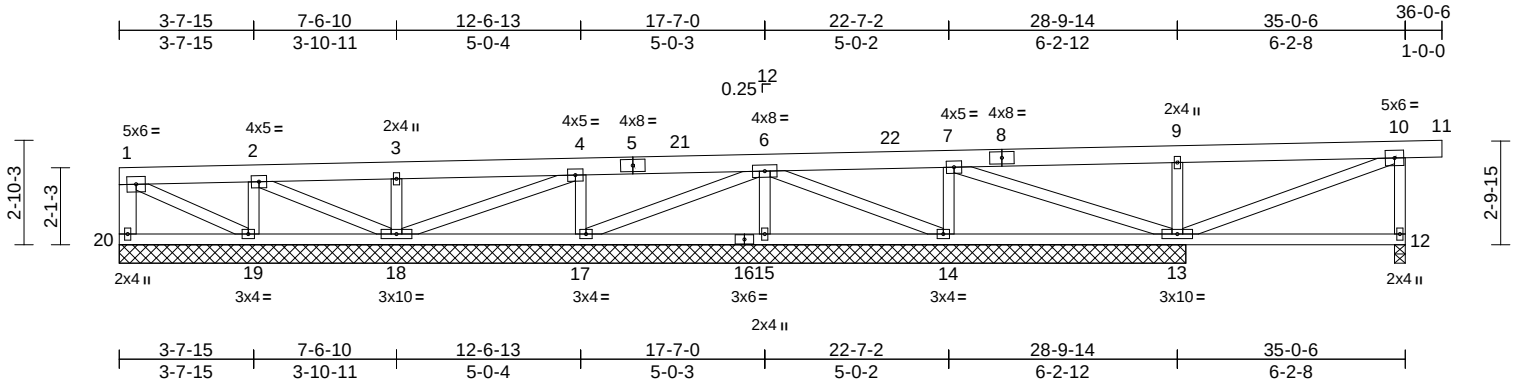
MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934152 |
|---|---|---|---|---|---|
| 3871615 | N25 | Monopitch Supported Gable | 1 | 1 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:15:01 Page: 1
ID:URVFe_mOU1tBsHvv7LYcxtzivDc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

PRMU20240139




Scale = 1:62.8

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.28 | Vert(LL) | -0.03 | 12-13 | >999 | 240 | MT20 | 185/148 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.29 | Vert(CT) | -0.06 | 12-13 | >999 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.07 | Horz(CT) | 0.00 | 12 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-SH | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 175 lb | FT = 10% |

**LUMBER**
TOP CHORD 2x6 DF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x4 HF No.2 *Except* 20-1:2x6 DF No.2

**BRACING**
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 17-18,13-14.

**REACTIONS** (size) 12=0-3-8, 13=29-0-10, 14=29-0-10, 15=29-0-10, 17=29-0-10, 18=29-0-10, 19=29-0-10, 20=29-0-10
Max Horiz 20=62 (LC 9)
Max Uplift 12=-28 (LC 12), 13=-48 (LC 8), 14=-33 (LC 12), 15=-15 (LC 12)
Max Grav 12=335 (LC 1), 13=701 (LC 1), 14=559 (LC 1), 15=464 (LC 1), 17=566 (LC 1), 18=530 (LC 1), 19=396 (LC 1), 20=157 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-20=-127/36, 1-2=-23/10, 2-3=-29/39, 3-4=-26/40, 4-6=-37/31, 6-7=-40/33, 7-9=-33/28, 9-10=-28/26, 10-11=-3/0, 10-12=-282/94
BOT CHORD 19-20=-90/89, 18-19=-50/47, 17-18=-24/22, 15-17=-21/29, 14-15=-21/29, 13-14=-19/21, 12-13=-19/42
WEBS 2-19=-315/59, 3-18=-406/75, 4-17=-450/94, 6-15=-367/120, 7-14=-437/148, 9-13=-540/184, 10-13=-50/16, 7-13=-24/26, 6-14=-28/19, 6-17=-31/19, 4-18=-40/19, 1-19=-47/44, 2-18=-49/16

**NOTES**

1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) 0-2-12 to 15-2-12, Exterior (2) 15-2-12 to 21-0-6, Corner (3) 21-0-6 to 36-0-6 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
3) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 28 lb uplift at joint 12, 15 lb uplift at joint 15, 33 lb uplift at joint 14 and 48 lb uplift at joint 13.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

**LOAD CASE(S)** Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-21=-90, 10-21=-80, 10-11=-80, 12-20=-20


February 22,2024



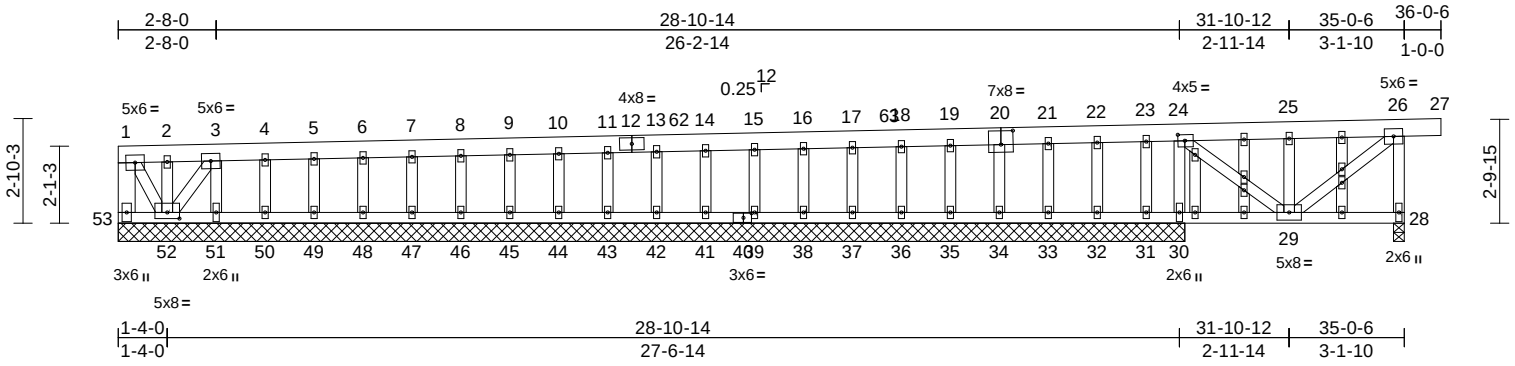
MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934153 |
|---|---|---|---|---|---|
| 3871615 | N26 | Monopitch Supported Gable | 2 | 1 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:15:03 Page: 1
ID:i6VMx?BPG3uoCrNRikV3Txziv1S-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

PRMU20240139




Scale = 1:62.8

Plate Offsets (X, Y): [20:0-4-0,0-4-8], [24:0-2-4,0-2-0], [40:0-2-10,0-1-8], [52:0-4-0,0-2-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.37 | Vert(LL) | 0.00 | 29 | >999 | 240 | MT20 | 185/148 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.43 | Vert(CT) | -0.01 | 28-29 | >999 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.47 | Horz(CT) | -0.03 | 41 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-SH | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 186 lb | FT = 10% |

**LUMBER**
TOP CHORD 2x6 DF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x4 HF No.2 *Except* 53-1:2x6 DF No.2
OTHERS 2x4 HF No.2

**BRACING**
TOP CHORD Structural wood sheathing directly applied or 5-4-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 3-8-12 oc bracing.

**REACTIONS** (size) 28=0-3-8, 30=29-0-10, 31=29-0-10, 32=29-0-10, 33=29-0-10, 34=29-0-10, 35=29-0-10, 36=29-0-10, 37=29-0-10, 38=29-0-10, 39=29-0-10, 41=29-0-10, 42=29-0-10, 43=29-0-10, 44=29-0-10, 45=29-0-10, 46=29-0-10, 47=29-0-10, 48=29-0-10, 49=29-0-10, 50=29-0-10, 51=29-0-10, 52=29-0-10, 53=29-0-10
Max Horiz 53=62 (LC 36)
Max Uplift 28=-1087 (LC 34), 30=-923 (LC 41), 31=-266 (LC 41), 32=-44 (LC 42), 33=-55 (LC 42), 34=-68 (LC 33), 35=-46 (LC 42), 36=-17 (LC 33), 37=-9 (LC 33), 38=-8 (LC 42), 39=-8 (LC 34), 41=-6 (LC 33), 49=-56 (LC 33), 50=-227 (LC 42), 51=-1355 (LC 36), 52=-267 (LC 42), 53=-1858 (LC 33)
Max Grav 28=1231 (LC 53), 30=1107 (LC 54), 31=291 (LC 54), 32=135 (LC 27), 33=151 (LC 27), 34=163 (LC 28), 35=147 (LC 27), 36=133 (LC 1), 37=133 (LC 1), 38=133 (LC 1), 39=133 (LC 1), 41=135 (LC 1), 42=144 (LC 1), 43=147 (LC 1), 44=147 (LC 1), 45=147 (LC 1), 46=147 (LC 1), 47=147 (LC 1), 48=147 (LC 1), 49=176 (LC 28), 50=312 (LC 53), 51=1432 (LC 53), 52=369 (LC 53), 53=1893 (LC 40)

**FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-53=-1833/1798, 1-2=-1150/1145, 2-3=-979/974, 3-4=-2099/2063, 4-5=-1895/1860, 5-6=-1696/1664, 6-7=-1488/1466, 7-8=-1297/1268, 8-9=-1097/1070, 9-10=-897/872, 10-11=-698/674, 11-13=-498/476, 13-14=-298/278, 14-15=-165/146, 15-16=-363/346, 16-17=-562/545, 17-18=-761/745, 18-19=-960/944, 19-21=-1357/1342, 21-22=-1549/1542, 22-23=-1756/1742, 23-24=-1886/1873, 24-25=-976/875, 25-26=-1430/1320, 26-27=-3/0, 26-28=-1227/1129
BOT CHORD 52-53=-176/111, 51-52=-2277/2262, 50-51=-2059/2063, 49-50=-1880/1864, 48-49=-1681/1666, 47-48=-1483/1467, 46-47=-1284/1268, 45-46=-1085/1069, 44-45=-887/871, 43-44=-688/672, 42-43=-489/473, 41-42=-291/275, 39-41=-158/142, 38-39=-357/341, 37-38=-555/540, 36-37=-754/738, 35-36=-953/937, 34-35=-1151/1136, 33-34=-1348/1333, 32-33=-1547/1531, 31-32=-1745/1710, 30-31=-1880/1865, 29-30=-2326/2311, 28-29=-455/447


February 22,2024

Continued on page 2



MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

WEBS 24-30=-1095/996, 25-29=-240/154, 24-29=-1870/1971, 26-29=-1689/1784, 2-52=-319/292, 3-51=-1422/1430, 4-50=-287/257, 5-49=-149/81, 6-48=-120/25, 7-47=-120/24, 8-46=-120/22, 9-45=-120/22, 10-44=-120/22, 11-43=-120/22, 13-42=-118/24, 14-41=-109/33, 15-39=-106/35, 16-38=-107/35, 17-37=-107/35, 18-36=-106/44, 19-35=-120/74, 20-34=-136/96, 21-33=-126/83, 22-32=-102/70, 23-31=-285/272, 1-52=-1966/2007, 3-52=-2192/2152

**NOTES**

1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) 0-2-12 to 15-2-12, Exterior (2) 15-2-12 to 21-0-6, Corner (3) 21-0-6 to 36-0-6 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
4) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) All plates are 2x4 MT20 unless otherwise indicated.
7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
8) Gable studs spaced at 1-4-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
11) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1858 lb uplift at joint 53, 1087 lb uplift at joint 28, 923 lb uplift at joint 30, 267 lb uplift at joint 52, 1355 lb uplift at joint 51, 227 lb uplift at joint 50, 56 lb uplift at joint 49, 6 lb uplift at joint 41, 8 lb uplift at joint 39, 8 lb uplift at joint 38, 9 lb uplift at joint 37, 17 lb uplift at joint 36, 46 lb uplift at joint 35, 68 lb uplift at joint 34, 55 lb uplift at joint 33, 44 lb uplift at joint 32 and 266 lb uplift at joint 31.
13) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
14) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
15) This truss has been designed for a total drag load of 5220 lb. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 35-0-6 for 149.0 plf.

**LOAD CASE(S)** Standard

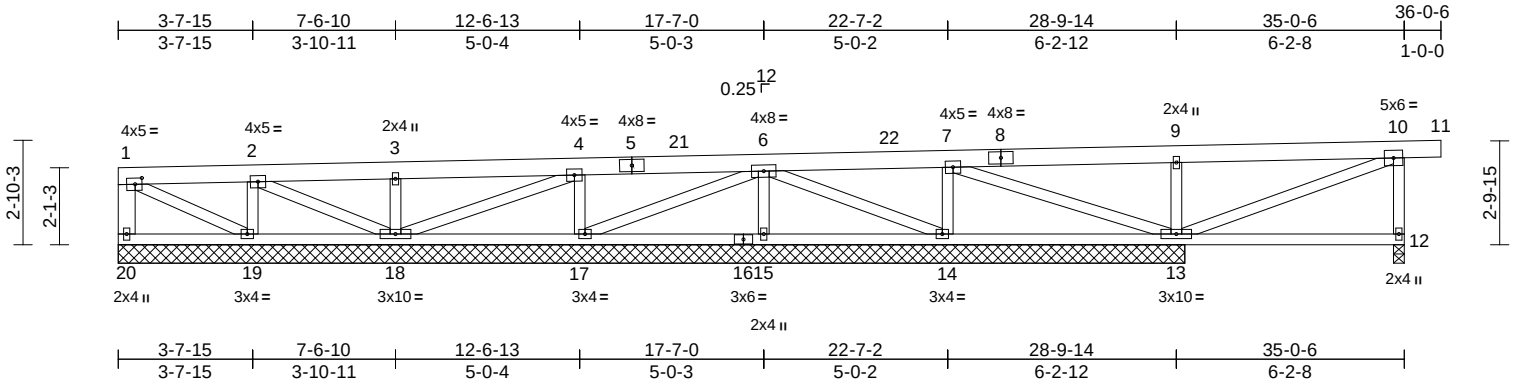
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (lb/ft)
   Vert: 1-62=-90, 26-62=-80, 26-27=-80, 28-53=-20

| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934154 |
|---|---|---|---|---|---|
| 3871615 | N27 | Monopitch Supported Gable | 1 | 1 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:15:07 Page: 1
ID:URVFe_mOU1tBsHvv7LYcxtzivDc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

PRMU20240139




Scale = 1:62.8

Plate Offsets (X, Y): [1:0-2-4,0-2-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.28 | Vert(LL) | -0.03 | 12-13 | >999 | 240 | MT20 | 220/195 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.29 | Vert(CT) | -0.06 | 12-13 | >999 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.07 | Horz(CT) | 0.00 | 12 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-SH | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 175 lb | FT = 10% |

**LUMBER**
TOP CHORD 2x6 DF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x4 HF No.2 *Except* 20-1:2x6 DF No.2

**BRACING**
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 17-18,13-14.

**REACTIONS** (size) 12=0-3-8, 13=29-0-10, 14=29-0-10, 15=29-0-10, 17=29-0-10, 18=29-0-10, 19=29-0-10, 20=29-0-10
Max Horiz 20=50 (LC 11)
Max Uplift 12=-28 (LC 12), 13=-48 (LC 8), 14=-33 (LC 12), 15=-16 (LC 12)
Max Grav 12=335 (LC 1), 13=701 (LC 1), 14=559 (LC 1), 15=463 (LC 1), 17=566 (LC 1), 18=526 (LC 1), 19=408 (LC 1), 20=150 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-25/20, 2-3=-32/42, 3-4=-29/44, 4-6=-37/32, 6-7=-40/33, 7-9=-33/28, 9-10=-28/26, 10-11=-3/0, 10-12=-282/94
BOT CHORD 19-20=-68/53, 18-19=-43/35, 17-18=-23/20, 15-17=-21/29, 14-15=-21/29, 13-14=-19/21, 12-13=-19/42
WEBS 2-19=-331/61, 3-18=-403/74, 4-17=-449/93, 6-15=-367/120, 7-14=-437/148, 9-13=-540/184, 10-13=-50/16, 7-13=-24/26, 6-14=-28/19, 6-17=-32/18, 4-18=-42/18, 1-19=-20/29, 2-18=-45/11, 1-20=-123/30

**NOTES**

1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) 0-2-12 to 15-2-12, Exterior (2) 15-2-12 to 21-0-6, Corner (3) 21-0-6 to 36-0-6 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
3) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 28 lb uplift at joint 12, 16 lb uplift at joint 15, 33 lb uplift at joint 14 and 48 lb uplift at joint 13.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

**LOAD CASE(S)** Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)
Vert: 1-21=-90, 10-21=-80, 10-11=-80, 12-20=-20


February 22,2024

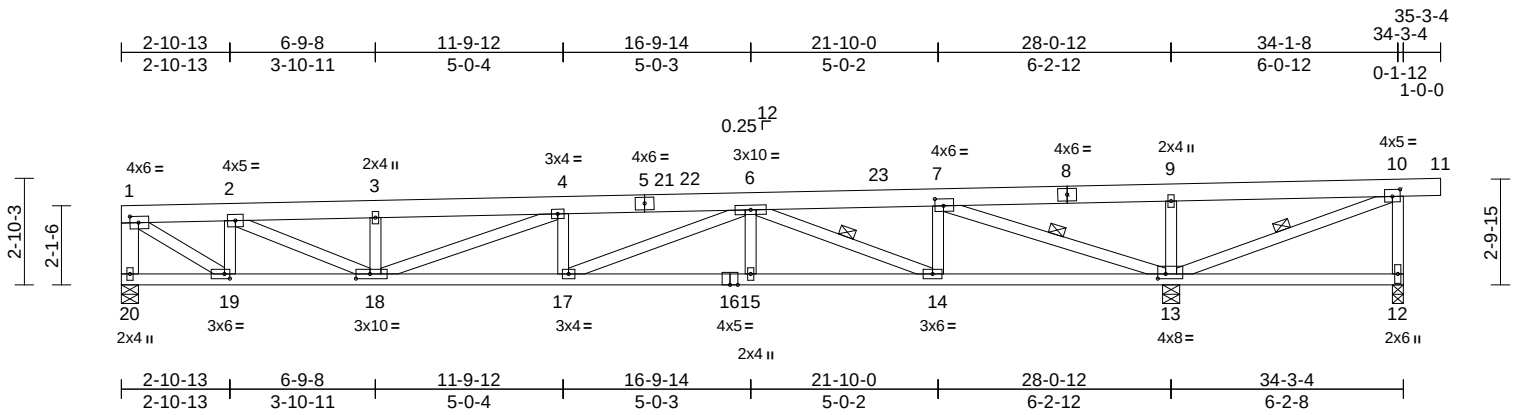



MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934155 |
|---|---|---|---|---|---|
| 3871615 | N28 | Monopitch | 6 | 1 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:15:08 Page: 1
ID:d4w9FkRqWeCoKYJhqsCH3ozivOM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC? PRMU20240139




Scale = 1:61.6

Plate Offsets (X, Y): [1:0-2-12,0-2-0], [7:0-2-12,0-2-4], [10:0-2-8,0-2-4], [13:0-2-8,0-1-8], [18:0-4-8,0-1-8], [19:0-1-12,0-1-8]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.89 | Vert(LL) | -0.23 | 15-17 | >999 | 240 | MT20 | 220/195 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.88 | Vert(CT) | -0.50 | 15-17 | >669 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.84 | Horz(CT) | 0.10 | 12 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-SH | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 172 lb | FT = 10% |

**LUMBER**
TOP CHORD 2x6 DF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x4 HF No.2 *Except* 20-1:2x6 DF No.2

**BRACING**
TOP CHORD Structural wood sheathing directly applied or 3-10-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 10-13, 7-13, 6-14

**REACTIONS** (size) 12=0-3-8, 13=0-5-8, 20=0-5-8
Max Horiz 20=19 (LC 8)
Max Uplift 12=-733 (LC 1), 13=-83 (LC 8)
Max Grav 12=-19 (LC 8), 13=3107 (LC 1), 20=1251 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-1661/104, 2-3=-3166/211, 3-4=-3168/214, 4-6=-3622/278, 6-7=-786/108, 7-9=-269/2671, 9-10=-263/2667, 10-11=-3/0
BOT CHORD 19-20=-26/11, 18-19=-128/1659, 17-18=-293/3617, 15-17=-279/2732, 14-15=-279/2732, 13-14=-119/782, 12-13=0/0
WEBS 10-12=-17/771, 1-20=-1227/87, 9-13=-653/200, 10-13=-2873/281, 2-19=-1016/108, 3-18=-423/79, 4-17=-270/68, 6-15=0/196, 7-14=0/908, 7-13=-3653/402, 6-14=-2112/173, 6-17=-16/959, 4-18=-488/65, 1-19=-122/1981, 2-18=-115/1657

**NOTES**

1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) 0-2-12 to 15-2-12, Exterior (2) 15-2-12 to 20-3-4, Corner (3) 20-3-4 to 35-3-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
3) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 733 lb uplift at joint 12 and 83 lb uplift at joint 13.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

**LOAD CASE(S)** Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-21=-90, 11-21=-80, 12-20=-20


February 22,2024



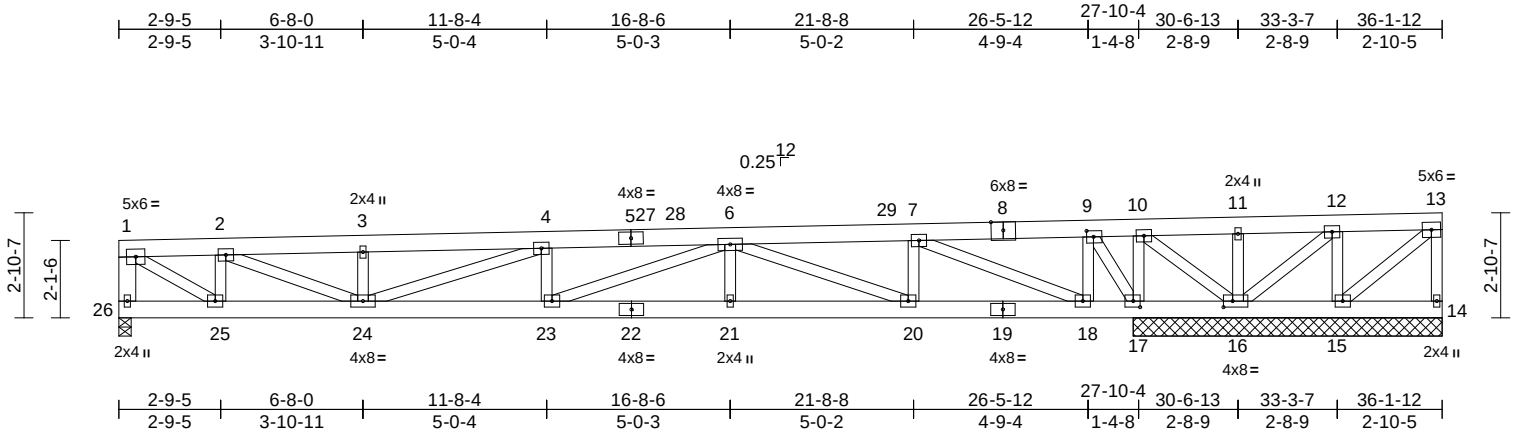

MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934156 |
|---|---|---|---|---|---|
| 3871615 | N29 | Monopitch | 1 | 2 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:15:09 Page: 1
ID:CiiHa6qqQFW70zhvkTrG5Dziuta-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

PRMU20240139




Scale = 1:62.9

Plate Offsets (X, Y): [9:0-2-4,0-2-0], [16:0-3-0,0-2-0], [17:0-2-4,0-2-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.68 | Vert(LL) | -0.12 | 21-23 | >999 | 240 | MT20 | 220/195 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.44 | Vert(CT) | -0.25 | 21-23 | >999 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.68 | Horz(CT) | 0.04 | 17 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-SH | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 438 lb | FT = 10% |

**LUMBER**

TOP CHORD 2x6 DF No.2 *Except* 8-13:2x6 DF 2400F 2.0E
BOT CHORD 2x6 DF No.2
WEBS 2x4 HF No.2 *Except* 26-1:2x6 DF No.2

**BRACING**

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

**REACTIONS** (size) 14=8-5-4, 15=8-5-4, 16=8-5-4, 17=8-5-4, 26=0-4-0
Max Horiz 26=123 (LC 39)
Max Uplift 14=-588 (LC 27), 15=-207 (LC 32), 16=-263 (LC 33), 17=-840 (LC 40), 26=-77 (LC 32)
Max Grav 14=398 (LC 40), 15=1973 (LC 57), 16=1466 (LC 56), 17=9265 (LC 1), 26=1419 (LC 1)

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

TOP CHORD 1-26=-1355/186, 1-2=-1920/278, 2-3=-3819/439, 3-4=-3820/773, 4-6=-4759/1032, 6-7=-3058/975, 7-9=-1076/2999, 9-10=-1532/5907, 10-11=-912/3494, 11-12=-1106/3611, 12-13=-620/1501, 13-14=-402/602
BOT CHORD 25-26=-150/144, 24-25=-282/1917, 23-24=-958/4753, 21-23=-1180/4196, 20-21=-1180/4196, 18-20=-1300/3274, 17-18=-3158/1284, 16-17=-6012/1767, 15-16=-2056/1338, 14-15=-857/844
WEBS 2-25=-1139/202, 3-24=-398/76, 4-23=-178/125, 6-21=0/228, 7-20=-35/612, 9-18=-280/1939, 7-18=-5959/907, 6-20=-1557/293, 6-23=-160/690, 4-24=-1054/357, 2-24=-374/2074, 1-25=-287/2153, 10-17=-3132/854, 9-17=-6073/914, 11-16=-1827/310, 12-15=-944/482, 10-16=-1072/3313, 12-16=-2952/871, 13-15=-2000/813

**NOTES**

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) 0-2-12 to 15-2-12, Exterior (2) 15-2-12 to 21-0-0, Corner (3) 21-0-0 to 36-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
4) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
5) Provide adequate drainage to prevent water ponding.
6) All plates are 4x5 MT20 unless otherwise indicated.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
9) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 77 lb uplift at joint 26, 588 lb uplift at joint 14, 840 lb uplift at joint 17, 263 lb uplift at joint 16 and 207 lb uplift at joint 15.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
13) This truss has been designed for a total drag load of 2600 lb. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 27-8-8 to 36-1-12 for 308.1 plf.


February 22,2024

Continued on page 2



MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

**LOAD CASE(S)** Standard

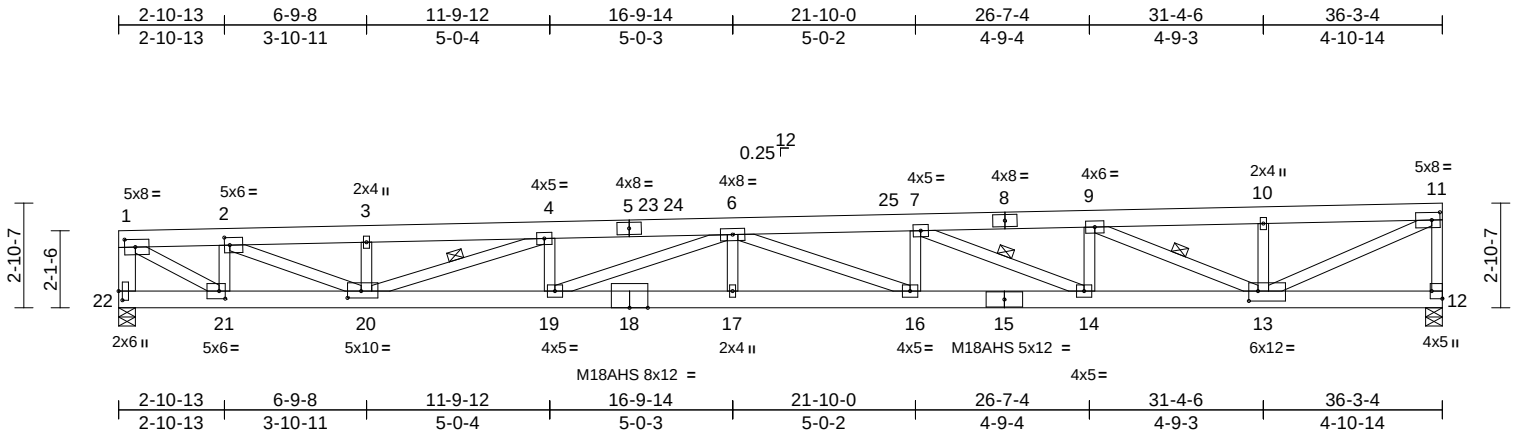
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (lb/ft)
   Vert: 1-27=-90, 7-27=-80, 7-13=-768, 14-26=-20

| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934157 |
|---|---|---|---|---|---|
| 3871615 | N30 | Monopitch Girder | 6 | 1 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:15:12 Page: 1
ID:02cUZ5xZfZ1jqtw7?qTYFgziw_S-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

PRMU20240139




Scale = 1:63.1

Plate Offsets (X, Y): [1:0-3-8,0-2-8], [2:0-1-12,0-2-8], [11:0-2-12,0-2-8], [12:Edge,0-3-8], [13:0-3-0,0-3-4], [20:0-4-8,0-2-4], [21:0-2-0,0-2-8], [22:0-3-0,0-1-4]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.77 | Vert(LL) | -0.61 | 16-17 | >703 | 240 | MT20 | 220/195 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.66 | Vert(CT) | -1.25 | 16-17 | >345 | 180 | M18AHS | 169/162 |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.87 | Horz(CT) | 0.17 | 12 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-SH | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 214 lb | FT = 10% |

**LUMBER**
TOP CHORD 2x6 DF No.2
BOT CHORD 2x6 DF 2400F 2.0E
WEBS 2x4 HF No.2 *Except* 22-1:2x6 DF No.2

**BRACING**
TOP CHORD Structural wood sheathing directly applied or 1-11-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-11-9 oc bracing.
WEBS 1 Row at midpt 9-13, 7-14, 4-20

**REACTIONS** (size) 12=0-5-8, 22=0-5-8
Max Horiz 22=56 (LC 11)
Max Uplift 12=-154 (LC 12), 22=-42 (LC 8)
Max Grav 12=2071 (LC 1), 22=2073 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-22=-1985/195, 1-2=-3013/298, 2-3=-6204/635, 3-4=-6204/638, 4-6=-8651/984, 6-7=-9079/1337, 7-9=-6860/1019, 9-10=-3782/572, 10-11=-3782/575, 11-12=-1990/319
BOT CHORD 21-22=-104/182, 20-21=-363/3009, 19-20=-1039/8645, 17-19=-1298/9554, 16-17=-1298/9554, 14-16=-1364/9073, 13-14=-1033/6855, 12-13=-31/66
WEBS 2-21=-1724/210, 3-20=-407/74, 4-19=-45/439, 6-17=0/216, 7-16=-32/666, 9-14=-98/1099, 10-13=-386/139, 11-13=-609/4160, 9-13=-3393/506, 7-14=-2425/362, 6-16=-518/225, 6-19=-979/294, 4-20=-2616/381, 2-20=-377/3487, 1-21=-316/3330

**NOTES**

1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) interior zone and C-C Corner (3) 0-2-12 to 15-2-12, Exterior (2) 15-2-12 to 21-1-8, Corner (3) 21-1-8 to 36-1-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 42 lb uplift at joint 22 and 154 lb uplift at joint 12.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 205 lb down and 64 lb up at 21-8-0, and 218 lb down and 64 lb up at 21-8-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-23=-90, 11-23=-80, 12-22=-20
Concentrated Loads (lb)
Vert: 16=-412 (F=-207, B=-205)


February 22,2024



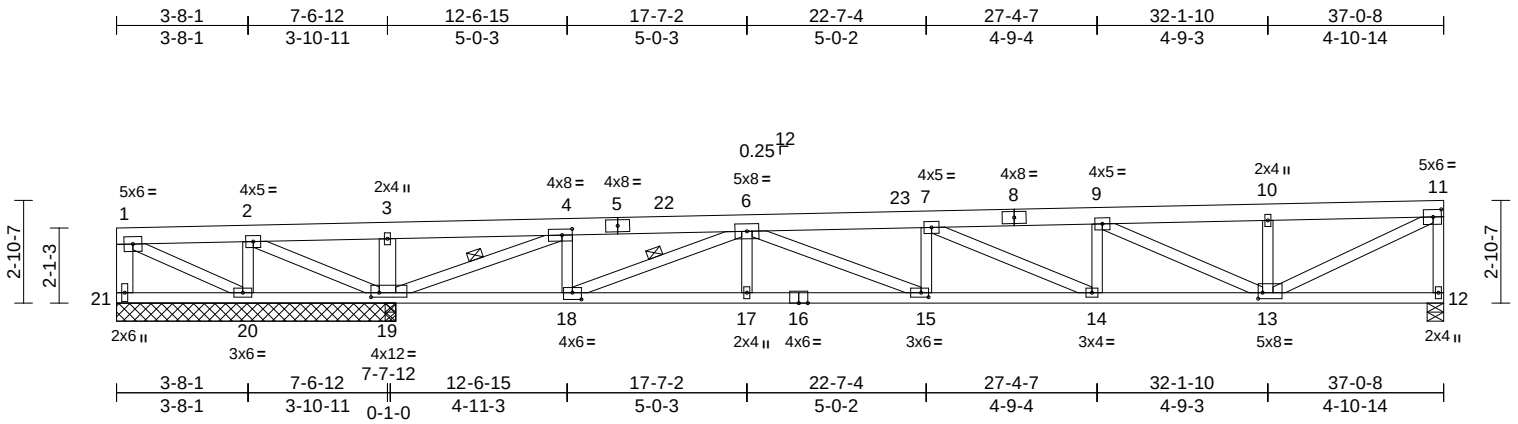

MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934158 |
|---|---|---|---|---|---|
| 3871615 | N31 | Monopitch Girder | 1 | 1 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:15:14 Page: 1

ID:0m2B_wel_NZYYM9a2RlxsOzivgA-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f PRMU20240139




Scale = 1:64.3

Plate Offsets (X, Y): [4:0-3-7,0-2-0], [11:0-2-12,0-2-8], [13:0-1-8,0-2-0], [15:0-2-8,0-1-8], [18:0-3-0,0-2-4], [19:0-2-12,0-1-8]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.51 | Vert(LL) | -0.29 | 15-17 | >999 | 240 | MT20 | 185/148 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.75 | Vert(CT) | -0.57 | 15-17 | >615 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.96 | Horz(CT) | 0.10 | 12 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-SH | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 189 lb | FT = 10% |

**LUMBER**

TOP CHORD 2x6 DF No.2 *Except* 1-5:2x6 DF 2400F 2.0E

BOT CHORD 2x4 HF No.2 *Except* 16-12:2x4 DF 1800F 1.6E

WEBS 2x4 HF No.2 *Except* 21-1,19-3:2x6 DF No.2

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 3-5-5 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 4-5-7 oc bracing.

WEBS 1 Row at midpt 6-18, 4-19

**REACTIONS** (size) 12=0-5-8, 19=7-9-8, 20=7-9-8, 21=7-9-8

Max Horiz 21=58 (LC 11)

Max Uplift 12=-118 (LC 12), 19=-218 (LC 12), 20=-361 (LC 1), 21=-580 (LC 1)

Max Grav 12=1394 (LC 1), 19=3776 (LC 1), 20=81 (LC 8), 21=65 (LC 12)

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

TOP CHORD 1-21=-109/614, 1-2=-238/1468, 2-3=-647/4186, 3-4=-643/4182, 4-6=-139/76, 6-7=-4442/775, 7-9=-3850/648, 9-10=-2362/396, 10-11=-2363/400, 11-12=-1344/237

BOT CHORD 20-21=-91/71, 19-20=-1465/243, 18-19=-73/158, 17-18=-471/3012, 15-17=-471/3012, 14-15=-771/4437, 13-14=-641/3846, 12-13=-24/46

WEBS 2-20=-160/1136, 3-19=-675/105, 4-18=-140/1279, 6-17=0/201, 7-15=-127/249, 9-14=-6/368, 10-13=-404/138, 11-13=-413/2619, 9-13=-1651/283, 7-14=-651/143, 6-15=-326/1544, 6-18=-3117/532, 4-19=-4638/603, 2-19=-2989/453, 1-20=-1631/285

**NOTES**

1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) interior zone and C-C Corner (3) 0-2-12 to 15-2-12, Exterior (2) 15-2-12 to 21-10-12, Corner (3) 21-10-12 to 36-10-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 580 lb uplift at joint 21, 118 lb uplift at joint 12, 361 lb uplift at joint 20 and 218 lb uplift at joint 19.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 216 lb down and 64 lb up at 22-5-4, and 207 lb down and 64 lb up at 22-5-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (lb/ft)
   Vert: 1-22=-90, 11-22=-80, 12-21=-20
   Concentrated Loads (lb)
   Vert: 15=-412 (F=-205, B=-207)


February 22,2024



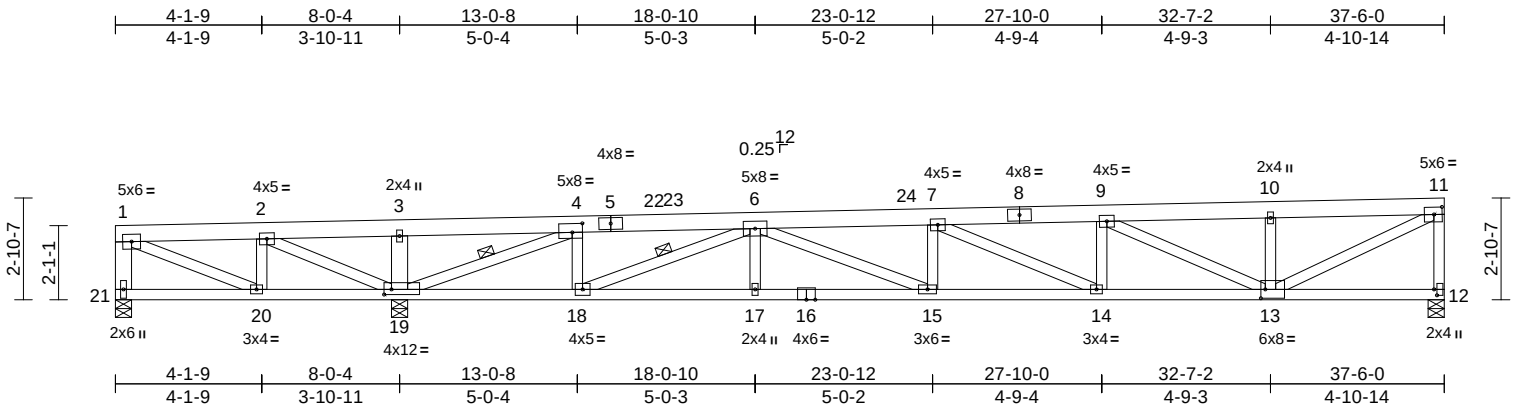

MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934159 |
|---|---|---|---|---|---|
| 3871615 | N32 | Monopitch Girder | 4 | 1 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:15:16 Page: 1
ID:MVa9blML0z0IUttHlqutT?ziwu?-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

PRMU20240139




Scale = 1:65

Plate Offsets (X, Y): [4:0-3-7,0-3-0], [11:0-2-12,0-2-8], [12:0-2-0,0-1-0], [13:0-1-8,0-3-0], [19:0-2-8,0-1-12]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 1.00 | Vert(LL) | -0.28 | 15-17 | >999 | 240 | MT20 | 185/148 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.94 | Vert(CT) | -0.57 | 15-17 | >623 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.76 | Horz(CT) | 0.10 | 12 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-SH | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 188 lb | FT = 10% |

**LUMBER**
TOP CHORD 2x6 DF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x4 HF No.2 *Except* 21-1,3-19:2x6 DF No.2

**BRACING**
TOP CHORD Structural wood sheathing directly applied or 3-8-1 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-3-0 oc bracing.
WEBS 1 Row at midpt 4-19, 6-18

**REACTIONS** (size) 12=0-5-8, 19=0-5-8, 21=0-5-8
Max Horiz 21=62 (LC 11)
Max Uplift 12=-94 (LC 12), 19=-103 (LC 12), 21=-561 (LC 1)
Max Grav 12=1320 (LC 1), 19=3315 (LC 1), 21=71 (LC 12)

**FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-21=-102/595, 1-2=-258/1620, 2-3=-519/3774, 3-4=-515/3771, 4-6=-275/50, 6-7=-3970/615, 7-9=-3538/541, 9-10=-2219/345, 10-11=-2220/348, 11-12=-1272/211
BOT CHORD 20-21=-89/75, 19-20=-1615/282, 18-19=-45/270, 17-18=-396/2817, 15-17=-396/2817, 14-15=-611/3966, 13-14=-533/3534, 12-13=-22/45
WEBS 3-19=-591/88, 2-19=-2371/290, 2-20=-72/769, 1-20=-1763/298, 7-15=-176/187, 4-19=-4342/496, 6-15=-233/1245, 4-18=-98/1143, 6-18=-2759/421, 6-17=0/201, 11-13=-356/2460, 9-14=0/317, 7-14=-475/86, 9-13=-1464/221, 10-13=-409/136

**NOTES**

1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) 0-2-12 to 15-2-12, Exterior (2) 15-2-12 to 22-4-4, Corner (3) 22-4-4 to 37-4-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 561 lb uplift at joint 21, 94 lb uplift at joint 12 and 103 lb uplift at joint 19.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 218 lb down and 64 lb up at 22-10-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-23=-90, 11-23=-80, 12-21=-20
Concentrated Loads (lb)
Vert: 15=-207 (F)


February 22,2024




MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

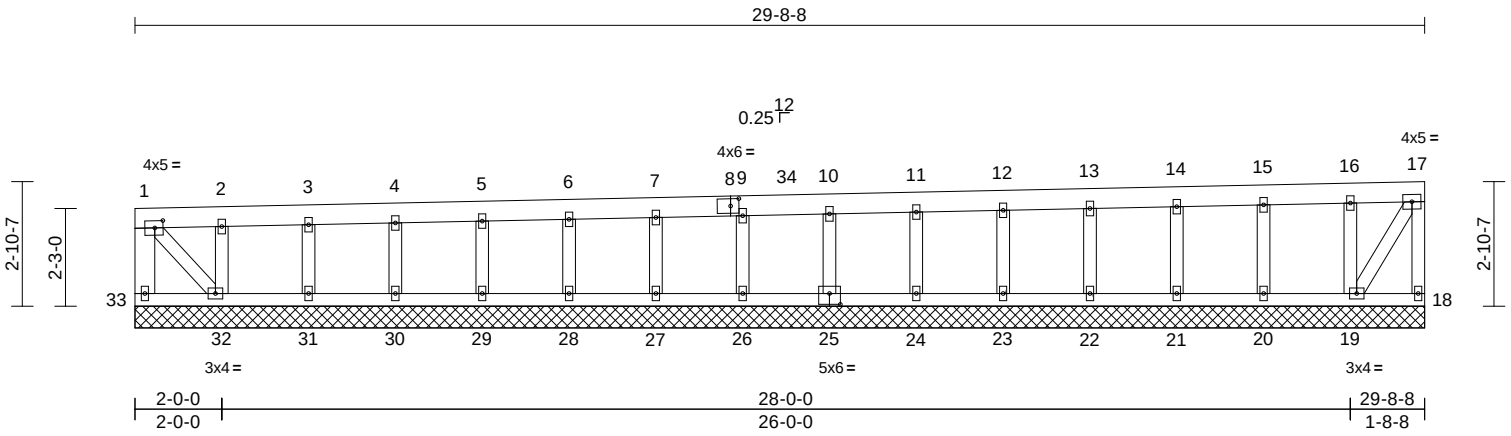
| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934160 |
|---|---|---|---|---|---|
| 3871615 | N34 | Monopitch Supported Gable | 1 | 2 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:15:17 Page: 1

ID:p81pf6tV6sXOHutgr4uWRLziwZz-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

PRMU20240139




Scale = 1:53.1

Plate Offsets (X, Y): [1:0-2-4,0-2-0], [8:0-2-5,0-2-0], [25:0-3-0,0-3-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.12 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 185/148 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.01 | Vert(TL) | n/a | - | n/a | 999 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.09 | Horiz(TL) | 0.00 | 18 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-SH | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 277 lb | FT = 10% |

**LUMBER**

TOP CHORD 2x6 DF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x4 HF No.2 *Except* 33-1:2x6 DF No.2
OTHERS 2x4 HF No.2

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 10-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except:
10-0-0 oc bracing: 32-33,18-19.

**REACTIONS** (size) 18=29-8-8, 19=29-8-8, 20=29-8-8, 21=29-8-8, 22=29-8-8, 23=29-8-8, 24=29-8-8, 25=29-8-8, 26=29-8-8, 27=29-8-8, 28=29-8-8, 29=29-8-8, 30=29-8-8, 31=29-8-8, 32=29-8-8, 33=29-8-8
Max Horiz 33=62 (LC 11)
Max Uplift 18=-31 (LC 12), 19=-85 (LC 8), 20=-95 (LC 12), 21=-92 (LC 8), 22=-92 (LC 12), 23=-92 (LC 8), 24=-95 (LC 12), 25=-83 (LC 8), 26=-20 (LC 12), 27=-10 (LC 8), 28=-13 (LC 12), 29=-2 (LC 8), 32=-3 (LC 9), 33=-11 (LC 8)
Max Grav 18=443 (LC 1), 19=1542 (LC 1), 20=1616 (LC 1), 21=1570 (LC 1), 22=1577 (LC 1), 23=1571 (LC 1), 24=1617 (LC 1), 25=1409 (LC 1), 26=335 (LC 1), 27=163 (LC 1), 28=204 (LC 1), 29=210 (LC 1), 30=220 (LC 1), 31=223 (LC 1), 32=253 (LC 1), 33=66 (LC 20)

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

TOP CHORD 1-33=-69/51, 1-2=-43/58, 2-3=-42/58, 3-4=-40/57, 4-5=-39/57, 5-6=-37/56, 6-7=-35/56, 7-9=-34/56, 9-10=-34/65, 10-11=-33/68, 11-12=-31/67, 12-13=-30/66, 13-14=-28/66, 14-15=-26/66, 15-16=-25/65, 16-17=-24/58, 17-18=-427/100
BOT CHORD 32-33=-95/93, 31-32=-46/41, 30-31=-46/41, 29-30=-46/41, 28-29=-46/41, 27-28=-46/41, 26-27=-46/41, 24-26=-46/41, 23-24=-46/41, 22-23=-46/41, 21-22=-46/41, 20-21=-46/41, 19-20=-46/41, 18-19=-24/39
WEBS 2-32=-177/39, 3-31=-183/41, 4-30=-180/39, 5-29=-170/50, 6-28=-164/62, 7-27=-123/53, 9-26=-295/84, 10-25=-1369/277, 11-24=-1577/314, 12-23=-1531/306, 13-22=-1537/307, 14-21=-1530/305, 15-20=-1575/315, 16-19=-1448/294, 1-32=-119/106, 17-19=-71/5

**NOTES**

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
4) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
5) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
6) Provide adequate drainage to prevent water ponding.
7) All plates are 2x4 MT20 unless otherwise indicated.
8) Gable requires continuous bottom chord bearing.
9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
10) Gable studs spaced at 2-0-0 oc.
11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
12) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
13) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.


February 22,2024

Continued on page 2



MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

14) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 11 lb uplift at joint 33, 31 lb uplift at joint 18, 3 lb uplift at joint 32, 2 lb uplift at joint 29, 13 lb uplift at joint 28, 10 lb uplift at joint 27, 20 lb uplift at joint 26, 83 lb uplift at joint 25, 95 lb uplift at joint 24, 92 lb uplift at joint 23, 92 lb uplift at joint 22, 92 lb uplift at joint 21, 95 lb uplift at joint 20 and 85 lb uplift at joint 19.
15) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
16) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

**LOAD CASE(S)** Standard

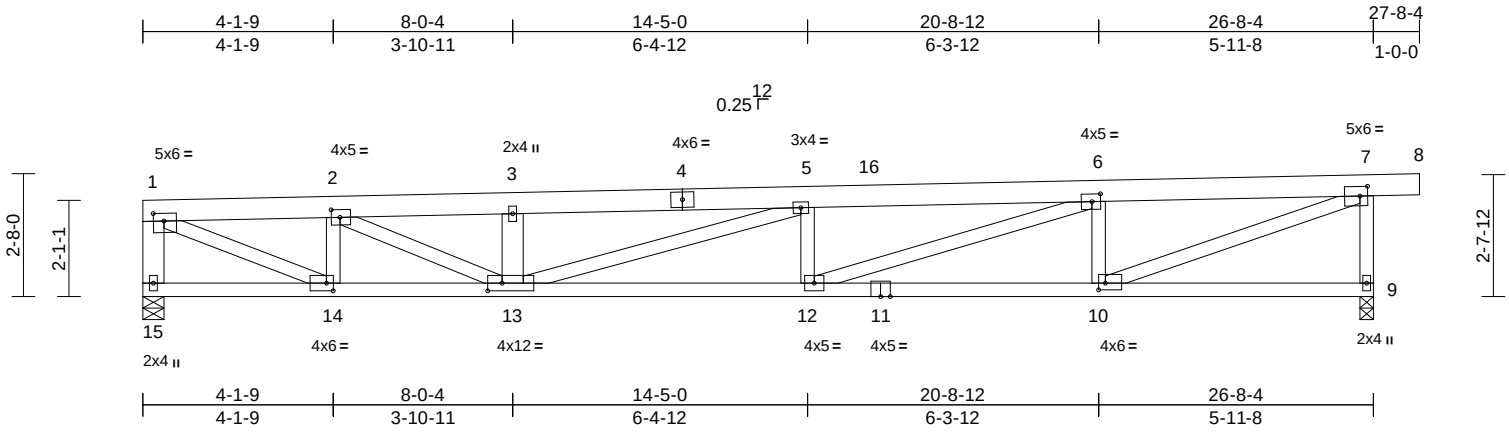
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (lb/ft)
   Vert: 1-5=-90, 5-34=-80, 17-34=-768, 18-33=-20

| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934161 |
|---|---|---|---|---|---|
| 3871615 | N35 | Monopitch | 3 | 1 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:15:19 Page: 1
ID:rIMuz87tWajg7vx49_ebC8ziy9e-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

PRMU20240139




Scale = 1:50

Plate Offsets (X, Y): [1:0-2-12,0-2-0], [2:0-2-4,0-2-0], [6:0-2-4,0-2-0], [7:0-2-0,0-2-8], [10:0-1-12,0-1-12], [13:0-3-12,0-2-0], [14:0-1-12,0-2-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.48 | Vert(LL) | -0.25 | 12-13 | >999 | 240 | MT20 | 220/195 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.79 | Vert(CT) | -0.54 | 12-13 | >585 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.66 | Horz(CT) | 0.08 | 9 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-SH | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 139 lb | FT = 10% |

**LUMBER**
TOP CHORD 2x6 DF No.2
BOT CHORD 2x4 DF 1800F 1.6E
WEBS 2x4 HF No.2 *Except* 15-1,13-3:2x6 DF No.2

**BRACING**
TOP CHORD Structural wood sheathing directly applied or 3-3-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-4-14 oc bracing.

**REACTIONS** (size) 9=0-3-8, 15=0-5-8
Max Horiz 15=46 (LC 11)
Max Uplift 9=-48 (LC 12)
Max Grav 9=1455 (LC 1), 15=1423 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-2618/293, 2-3=-4226/489, 3-5=-4230/494, 5-6=-4617/610, 6-7=-2986/475, 7-8=-3/0, 7-9=-1395/281
BOT CHORD 14-15=-62/48, 13-14=-341/2614, 12-13=-625/4611, 10-12=-474/2980, 9-10=-25/65
WEBS 1-15=-1383/173, 6-10=-1015/256, 5-12=-429/130, 2-14=-1083/175, 3-13=-510/118, 1-14=-317/2856, 2-13=-212/1773, 5-13=-406/117, 6-12=-159/1722, 7-10=-482/3129

**NOTES**
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
3) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 48 lb uplift at joint 9.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

**LOAD CASE(S)** Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-16=-90, 7-16=-80, 7-8=-80, 9-15=-20


February 22,2024



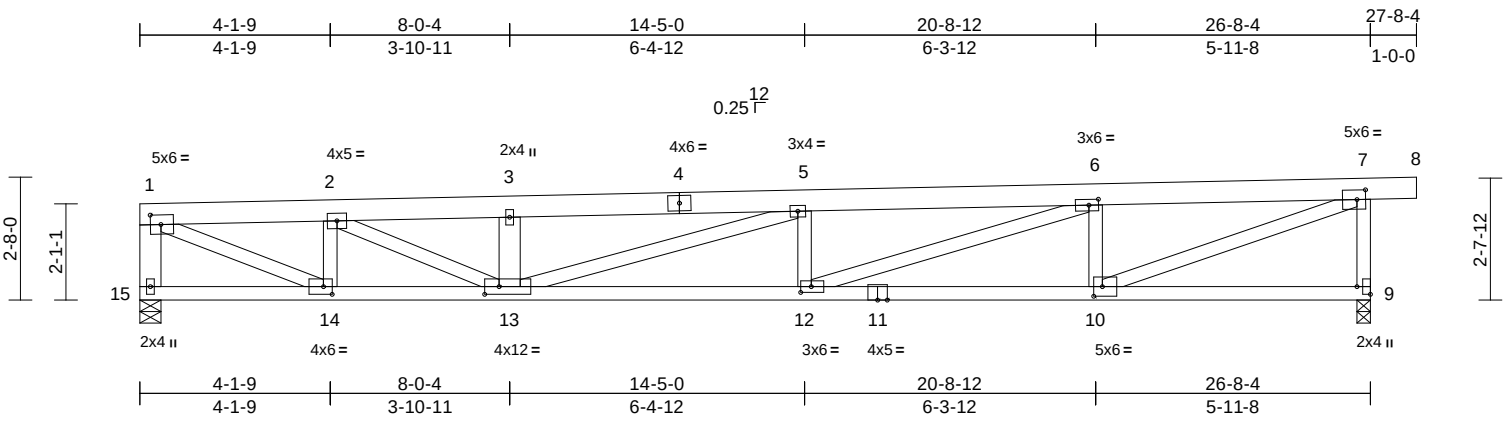

MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934162 |
|---|---|---|---|---|---|
| 3871615 | N36 | Monopitch | 2 | 1 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:15:21 Page: 1
ID:9Tnp4TJkN_Mjg6dI0ZzyG0ziyDH-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

PRMU20240139




Scale = 1:50

Plate Offsets (X, Y): [1:0-2-12,0-2-8], [6:0-2-8,0-1-8], [7:0-2-4,0-2-8], [9:Edge,0-3-8], [10:0-2-4,0-2-8], [12:0-2-12,0-1-8], [13:0-3-12,0-2-0], [14:0-2-4,0-2-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.37 | Vert(LL) | -0.27 | 12-13 | >999 | 240 | MT20 | 185/148 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.99 | Vert(CT) | -0.55 | 12-13 | >577 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | YES | WB | 0.63 | Horz(CT) | 0.10 | 9 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-SH | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 134 lb | FT = 10% |

**LUMBER**
TOP CHORD 2x6 DF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x4 HF No.2 *Except* 15-1,13-3:2x6 DF No.2

**BRACING**
TOP CHORD Structural wood sheathing directly applied or 3-4-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

**REACTIONS** (size) 9=0-3-8, 15=0-5-8
Max Horiz 15=53 (LC 9)
Max Uplift 9=-93 (LC 12), 15=-77 (LC 8)
Max Grav 9=1409 (LC 1), 15=1314 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-15=-1261/283, 1-2=-2394/490, 2-3=-3933/790, 3-5=-3937/795, 5-6=-4332/879, 6-7=-2861/594, 7-8=-3/0, 7-9=-1350/329
BOT CHORD 14-15=-105/135, 13-14=-550/2389, 12-13=-908/4326, 10-12=-600/2856, 9-10=-26/63
WEBS 2-14=-952/251, 3-13=-472/181, 5-12=-375/184, 6-10=-967/304, 7-10=-617/2997, 1-14=-505/2489, 2-13=-342/1698, 5-13=-414/89, 6-12=-325/1553

**NOTES**
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) interior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
3) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 77 lb uplift at joint 15 and 93 lb uplift at joint 9.
9) 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


February 22,2024



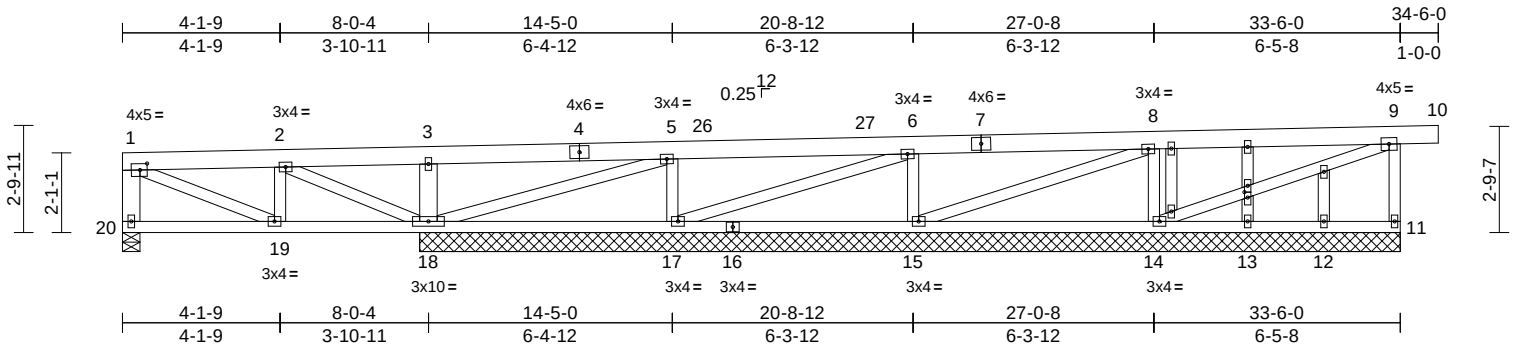
MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934163 |
|---|---|---|---|---|---|
| 3871615 | N37 | Monopitch Supported Gable | 1 | 1 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:15:22 Page: 1
ID:JCWt1z5_luQdWXNoTf5ktbzj9yp-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

PRMU20240139




Scale = 1:60.4

Plate Offsets (X, Y): [1:0-2-4,0-2-0], [23:0-1-11,0-1-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.28 | Vert(LL) | -0.03 | 17-18 | >999 | 240 | MT20 | 185/148 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.27 | Vert(CT) | -0.06 | 17-18 | >999 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.15 | Horz(CT) | 0.00 | 11 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-SH | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 173 lb | FT = 10% |

**LUMBER**

| | |
|---|---|
| TOP CHORD | 2x6 DF No.2 |
| BOT CHORD | 2x4 HF No.2 |
| WEBS | 2x4 HF No.2 *Except* 20-1,18-3:2x6 DF No.2 |
| OTHERS | 2x4 HF No.2 |

**BRACING**

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

**REACTIONS** (size) 11=25-8-8, 12=25-8-8, 13=25-8-8, 14=25-8-8, 15=25-8-8, 17=25-8-8, 18=25-8-8, 20=0-5-8
Max Horiz 20=57 (LC 9)
Max Uplift 11=-57 (LC 12), 14=-56 (LC 12), 15=-32 (LC 12), 17=-37 (LC 12), 18=-47 (LC 12), 20=-20 (LC 8)
Max Grav 11=325 (LC 1), 12=98 (LC 3), 13=31 (LC 3), 14=653 (LC 1), 15=620 (LC 1), 17=639 (LC 1), 18=780 (LC 1), 20=328 (LC 1)

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

| | |
|---|---|
| TOP CHORD | 1-20=-286/76, 1-2=-320/46, 2-3=-45/106, 3-5=-41/108, 5-6=-37/48, 6-8=-33/37, 8-9=-42/42, 9-10=-3/0, 9-11=-306/100 |
| BOT CHORD | 19-20=-94/101, 18-19=-109/316, 17-18=-45/31, 15-17=-29/24, 14-15=-22/24, 13-14=-28/35, 12-13=-28/35, 11-12=-28/35 |
| WEBS | 2-19=-55/68, 1-19=-58/293, 3-18=-452/153, 2-18=-461/100, 5-17=-502/178, 5-18=-70/23, 6-15=-483/165, 6-17=-26/7, 8-14=-540/190, 9-14=-15/6, 8-15=-22/5 |

**NOTES**

1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) interior zone and C-C Corner (3) 0-2-12 to 15-2-12, Exterior (2) 15-2-12 to 19-6-0, Corner (3) 19-6-0 to 34-6-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
4) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) All plates are 2x4 MT20 unless otherwise indicated.
7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
8) Gable studs spaced at 2-0-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
11) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 20 lb uplift at joint 20, 57 lb uplift at joint 11, 47 lb uplift at joint 18, 37 lb uplift at joint 17, 32 lb uplift at joint 15 and 56 lb uplift at joint 14.
13) 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


February 22,2024




MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

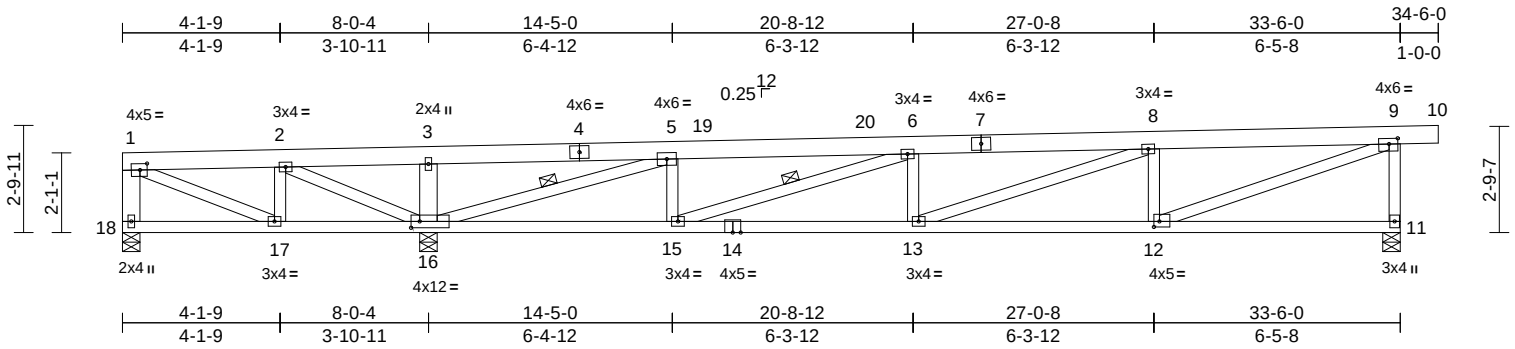
| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934164 |
|---|---|---|---|---|---|
| 3871615 | N38 | Monopitch | 1 | 1 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:15:24 Page: 1

ID:9ZDrW40Euf5lCvhDo43yFkzjA23-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

PRMU20240139




Scale = 1:60.4

Plate Offsets (X, Y): [1:0-2-4,0-2-0], [9:0-2-12,0-1-12], [12:0-1-12,0-1-12], [16:0-2-12,0-2-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.74 | Vert(LL) | -0.19 | 13 | >999 | 240 | MT20 | 185/148 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.74 | Vert(CT) | -0.39 | 13-15 | >784 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.85 | Horz(CT) | 0.07 | 11 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-SH | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 167 lb | FT = 10% |

**LUMBER**

TOP CHORD 2x6 DF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x4 HF No.2 *Except* 18-1,16-3:2x6 DF No.2

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 4-5-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-11-13 oc bracing.
WEBS 1 Row at midpt 5-16, 6-15

**REACTIONS** (size) 11=0-5-8, 16=0-5-8, 18=0-5-8
Max Horiz 18=57 (LC 9)
Max Uplift 11=-80 (LC 12), 16=-141 (LC 12), 18=-198 (LC 1)
Max Grav 11=1180 (LC 1), 16=2422 (LC 1), 18=11 (LC 12)

**FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-18=-21/237, 1-2=-132/824, 2-3=-355/2118, 3-5=-351/2117, 5-6=-1390/231, 6-8=-2767/447, 8-9=-2234/374, 9-10=-3/0, 9-11=-1117/228
BOT CHORD 17-18=-90/85, 16-17=-821/164, 15-16=-234/1384, 13-15=-444/2762, 12-13=-365/2228, 11-12=-23/60
WEBS 8-12=-700/215, 6-13=-66/112, 5-15=0/582, 2-17=-22/422, 1-17=-919/171, 3-16=-583/173, 2-16=-1423/249, 5-16=-3665/557, 6-15=-1455/222, 8-13=-84/567, 9-12=-366/2320

**NOTES**

1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) interior zone and C-C Corner (3) 0-2-12 to 15-2-12, Exterior (2) 15-2-12 to 19-6-0, Corner (3) 19-6-0 to 34-6-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
3) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 198 lb uplift at joint 18, 80 lb uplift at joint 11 and 141 lb uplift at joint 16.
9) 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


February 22,2024



MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

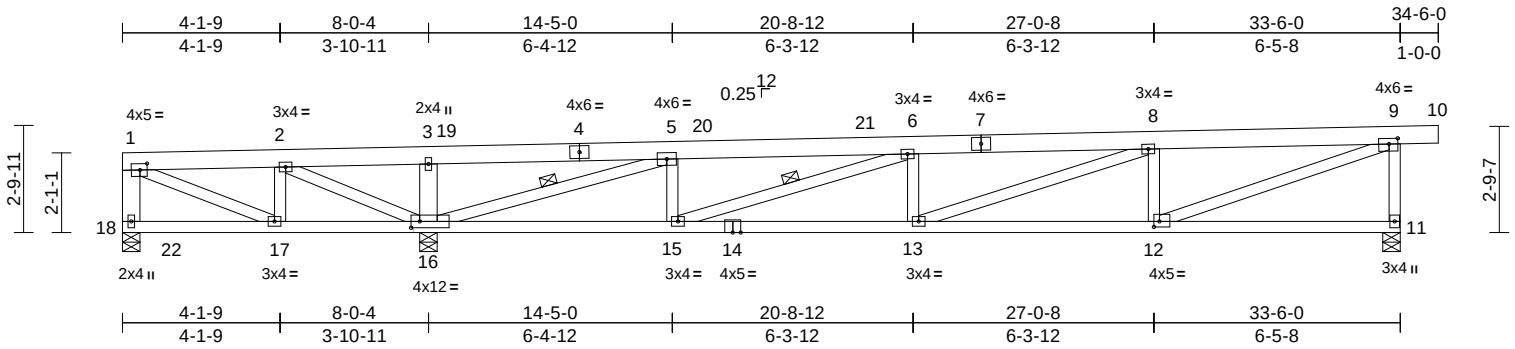
| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934165 |
|---|---|---|---|---|---|
| 3871615 | N39 | Monopitch Girder | 3 | 1 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:15:25 Page: 1

ID:aahiGm?EqY3lfnaTOAm9nKzjAKA-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

PRMU20240139




Scale = 1:60.4

Plate Offsets (X, Y): [1:0-2-4,0-2-0], [9:0-2-12,0-1-12], [12:0-1-12,0-1-12], [16:0-2-12,0-2-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.75 | Vert(LL) | -0.19 | 13 | >999 | 240 | MT20 | 185/148 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.74 | Vert(CT) | -0.39 | 13-15 | >785 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.85 | Horz(CT) | 0.07 | 11 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-SH | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 167 lb | FT = 10% |

**LUMBER**

TOP CHORD 2x6 DF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x4 HF No.2 *Except* 18-1,16-3:2x6 DF No.2

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 4-5-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 5-16, 6-15

**REACTIONS** (size) 11=0-5-8, 16=0-5-8, 18=0-5-8
Max Horiz 18=57 (LC 9)
Max Uplift 11=-81 (LC 31), 16=-101 (LC 12), 18=-92 (LC 1)
Max Grav 11=1179 (LC 1), 16=2481 (LC 1), 18=91 (LC 31)

**FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-18=-61/193, 1-2=-192/755, 2-3=-351/2128, 3-5=-346/2126, 5-6=-1380/240, 6-8=-2762/452, 8-9=-2232/376, 9-10=-3/0, 9-11=-1116/229
BOT CHORD 17-18=-96/99, 16-17=-751/224, 15-16=-243/1375, 13-15=-448/2756, 12-13=-367/2226, 11-12=-23/60
WEBS 8-12=-699/216, 6-13=-65/113, 5-15=0/584, 3-16=-610/149, 2-17=-51/422, 1-17=-865/220, 2-16=-1510/217, 5-16=-3665/559, 6-15=-1459/219, 8-13=-86/564, 9-12=-368/2318

**NOTES**

1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) interior zone and C-C Corner (3) 0-2-12 to 15-2-12, Exterior (2) 15-2-12 to 19-6-0, Corner (3) 19-6-0 to 34-6-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
3) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 92 lb uplift at joint 18, 81 lb uplift at joint 11 and 101 lb uplift at joint 16.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 81 lb down and 51 lb up at 1-3-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

**LOAD CASE(S)** Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-19=-90, 9-19=-80, 9-10=-80, 11-18=-20
Concentrated Loads (lb)
Vert: 22=-81


February 22,2024



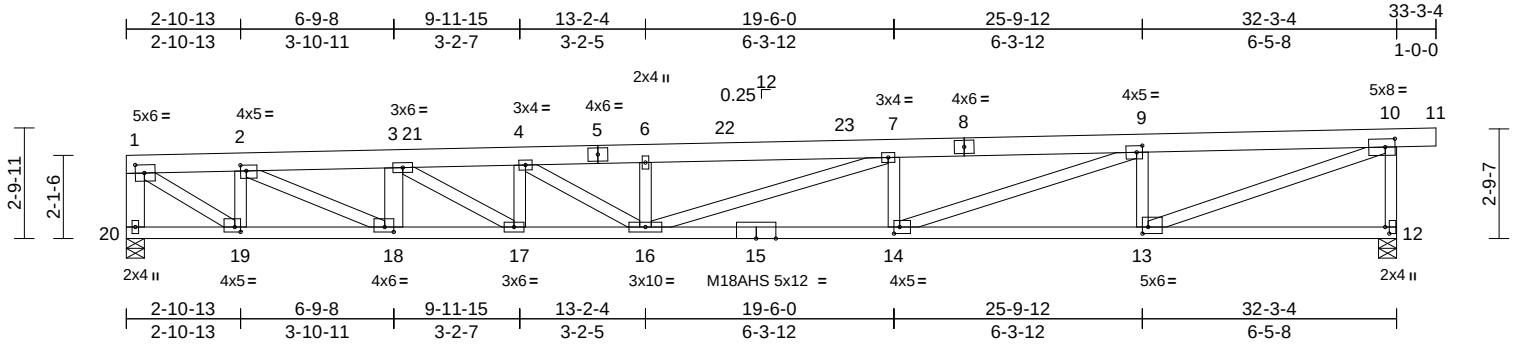

MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934166 |
|---|---|---|---|---|---|
| 3871615 | N40 | Monopitch | 3 | 1 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:15:27 Page: 1
ID:CUkpLlQowOl_9loEALFN_5zjA9I-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

PRMU20240139




Scale = 1:58.5

Plate Offsets (X, Y): [1:0-2-12,0-2-8], [2:0-1-12,0-1-12], [9:0-1-12,0-2-0], [10:0-3-0,0-2-8], [12:0-2-0,0-1-4], [13:0-1-12,0-2-0], [14:0-1-12,0-2-0], [18:0-2-12,0-1-8], [19:0-1-12,0-1-8]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.61 | Vert(LL) | -0.44 | 14-16 | >874 | 240 | MT20 | 220/195 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.96 | Vert(CT) | -0.91 | 14-16 | >421 | 180 | M18AHS | 169/162 |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.80 | Horz(CT) | 0.14 | 12 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-SH | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 170 lb | FT = 10% |

**LUMBER**
TOP CHORD 2x6 DF No.2
BOT CHORD 2x4 DF 1800F 1.6E
WEBS 2x4 HF No.2 *Except* 20-1,18-3:2x6 DF No.2

**BRACING**
TOP CHORD Structural wood sheathing directly applied or 2-7-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-9-10 oc bracing.

**REACTIONS** (size) 12=0-5-8, 20=0-5-8
Max Horiz 20=56 (LC 9)
Max Uplift 12=-102 (LC 12), 20=-31 (LC 8)
Max Grav 12=1696 (LC 1), 20=1656 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-20=-1617/206, 1-2=-2271/292, 2-3=-4491/609, 3-4=-5560/797, 4-6=-6209/915, 6-7=-6214/920, 7-9=-5769/889, 9-10=-3652/589, 10-11=-3/0, 10-12=-1629/313
BOT CHORD 19-20=-99/125, 18-19=-357/2267, 17-18=-671/4485, 16-17=-856/5556, 14-16=-912/5763, 13-14=-593/3646, 12-13=-26/75
WEBS 3-18=-958/199, 2-19=-1363/220, 2-18=-360/2444, 1-19=-323/2604, 6-16=-439/149, 7-14=-638/192, 9-13=-1237/300, 10-13=-606/3821, 9-14=-340/2250, 7-16=-58/469, 4-16=-139/762, 4-17=-583/142, 3-17=-228/1242

**NOTES**

1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) interior zone and C-C Corner (3) 0-2-12 to 15-2-12, Exterior (2) 15-2-12 to 18-3-4, Corner (3) 18-3-4 to 33-3-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
3) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
8) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 31 lb uplift at joint 20 and 102 lb uplift at joint 12.
10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
11) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

**LOAD CASE(S)** Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)
Vert: 1-21=-90, 10-21=-80, 10-11=-80, 12-20=-20


February 22,2024



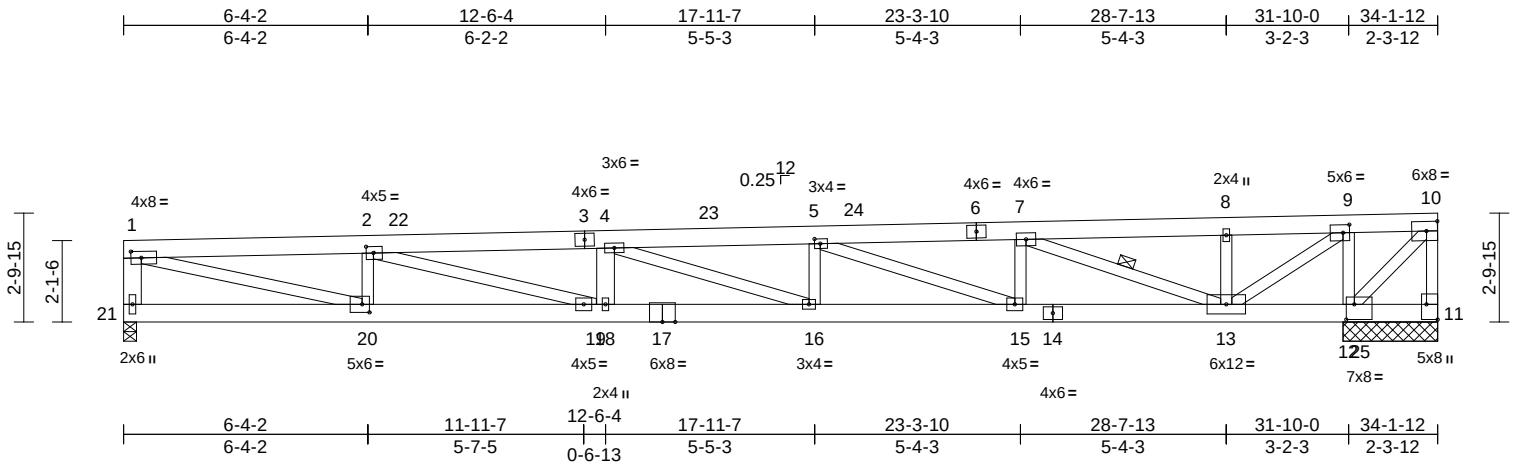

MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934167 |
|---|---|---|---|---|---|
| 3871615 | N41 | Monopitch | 1 | 2 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:15:29 Page: 1

ID:rNmOmvoVp1JaT?UPtZ7x_3zjAW2-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f PRMU20240139




Scale = 1:59.9

Plate Offsets (X, Y): [1:0-3-4,0-2-0], [2:0-2-4,0-2-0], [5:0-1-12,0-1-8], [9:0-2-0,0-2-8], [10:0-3-7,0-3-0], [11:Edge,0-3-8], [12:0-2-8,0-4-12], [20:0-2-4,0-2-8]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.99 | Vert(LL) | -0.32 | 16-18 | >999 | 240 | MT20 | 220/195 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.86 | Vert(CT) | -0.65 | 16-18 | >584 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.67 | Horz(CT) | 0.07 | 11 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-SH | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 406 lb | FT = 10% |

**LUMBER**

TOP CHORD 2x6 DF No.2
BOT CHORD 2x6 DF No.2
WEBS 2x4 HF No.2 *Except* 21-1,18-4:2x6 DF No.2, 10-11:2x4 DF No.2

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 4-10-1 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-4-3 oc bracing.
WEBS 1 Row at midpt 7-13

**REACTIONS** (size) 11=2-5-8, 12=2-5-8, 21=0-4-0
Max Horiz 21=241 (LC 35)
Max Uplift 11=-8251 (LC 1), 12=-1693 (LC 40), 21=-210 (LC 32)
Max Grav 11=1480 (LC 40), 12=13509 (LC 1), 21=2141 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-21=-1999/414, 1-2=-6058/1294, 2-4=-9405/1734, 4-5=-9258/1628, 5-7=-5195/1216, 7-8=-956/2312, 8-9=-1232/2518, 9-10=-2003/7150, 10-11=-2113/7666
BOT CHORD 20-21=-289/468, 19-20=-1172/6050, 18-19=-2145/9399, 16-18=-2145/9399, 15-16=-2494/9241, 13-15=-2196/5686, 12-13=-7679/2884, 11-12=-2884/2782
WEBS 2-20=-1519/430, 4-18=-901/365, 5-16=-60/265, 7-15=-273/1643, 8-13=-1028/229, 7-13=-7819/1476, 5-15=-4345/948, 4-16=-476/508, 2-19=-1016/3518, 1-20=-1249/5861, 9-12=-4883/864, 9-13=-1163/6281, 10-12=-10340/2863

**NOTES**

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) interior zone and C-C Corner (3) 0-2-12 to 15-2-12, Exterior (2) 15-2-12 to 19-0-0, Corner (3) 19-0-0 to 34-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
4) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
8) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 210 lb uplift at joint 21, 8251 lb uplift at joint 11 and 1693 lb uplift at joint 12.
10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
11) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
12) This truss has been designed for a total drag load of 3000 lb. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 32-1-12 to 34-1-12 for 1500.0 plf.
13) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.

**LOAD CASE(S)** Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)


February 22,2024

Continued on page 2



MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING |
|---|---|---|---|---|---|
| 3871615 | N41 | Monopitch | 1 | **2** | R80934167 |
| | | | | | Job Reference (optional) |



Vert: 1-22=-90, 4-22=-80, 4-10=-264, 11-21=-20



MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

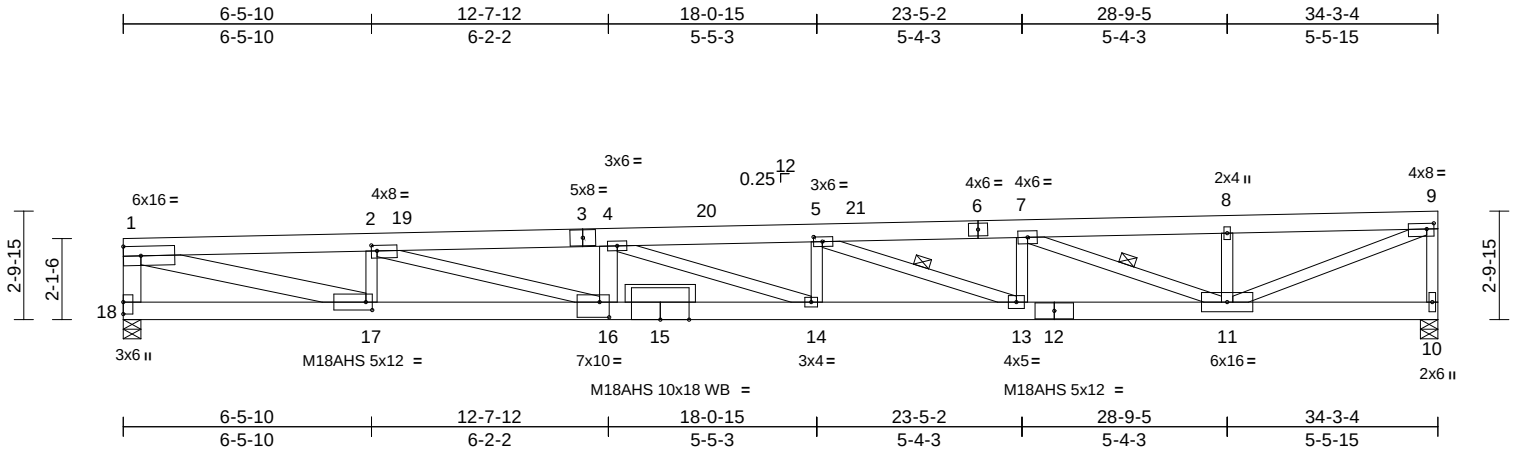
| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934168 |
|---|---|---|---|---|---|
| 3871615 | N42 | Monopitch Girder | 8 | 1 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:15:31 Page: 1

ID:tg7oAiz5tR7lB9nqHPVRavzjAet-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

PRMU20240139




Scale = 1:60.1

Plate Offsets (X, Y): [2:0-1-12,0-1-12], [5:0-2-12,0-1-8], [9:0-2-4,0-1-12], [16:0-3-0,0-4-12], [17:0-2-0,0-2-8]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.77 | Vert(LL) | -0.69 | 14-16 | >592 | 240 | MT20 | 220/195 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.90 | Vert(CT) | -1.37 | 14-16 | >297 | 180 | M18AHS | 169/162 |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.98 | Horz(CT) | 0.16 | 10 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-SH | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 211 lb | FT = 10% |

**LUMBER**

TOP CHORD 2x6 DF 2400F 2.0E
BOT CHORD 2x6 DF 2400F 2.0E
WEBS 2x4 HF No.2 *Except* 18-1,16-4:2x6 DF No.2, 11-9:2x4 DF No.2, 1-17:2x6 DF 2400F 2.0E
OTHERS 2x6 SP No.2

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 2-2-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-11-8 oc bracing.
WEBS 1 Row at midpt 7-11, 5-13

**REACTIONS** (size) 10=0-5-8, 18=0-5-8
Max Horiz 18=30 (LC 39)
Max Uplift 10=-289 (LC 12), 18=-374 (LC 8)
Max Grav 10=2210 (LC 1), 18=2636 (LC 1)

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

TOP CHORD 1-18=-2539/556, 1-2=-8098/1818, 2-4=-12355/3033, 4-5=-11062/2531, 5-7=-8309/1792, 7-8=-4671/962, 8-9=-4673/967
BOT CHORD 17-18=-85/277, 16-17=-1840/8090, 14-16=-3050/12345, 13-14=-2544/11057, 11-13=-1801/8304, 10-11=0/0
WEBS 9-10=-2152/468, 2-17=-1925/534, 4-16=-352/719, 5-14=-143/722, 7-13=-214/1141, 8-11=-484/165, 9-11=-1058/5103, 7-11=-3918/898, 5-13=-2974/795, 4-14=-1650/561, 2-16=-1267/4461, 1-17=-1825/8085

**NOTES**

1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) interior zone and C-C Corner (3) 0-2-12 to 15-2-12, Exterior (2) 15-2-12 to 19-1-8, Corner (3) 19-1-8 to 34-1-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 374 lb uplift at joint 18 and 289 lb uplift at joint 10.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 870 lb down and 293 lb up at 12-6-0, and 748 lb down and 241 lb up at 12-6-0 on bottom chord. The design/ selection of such connection device(s) is the responsibility of others.
12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-19=-90, 9-19=-80, 10-18=-20
Concentrated Loads (lb)
Vert: 16=-1386 (F=-619, B=-767)


February 22,2024




MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

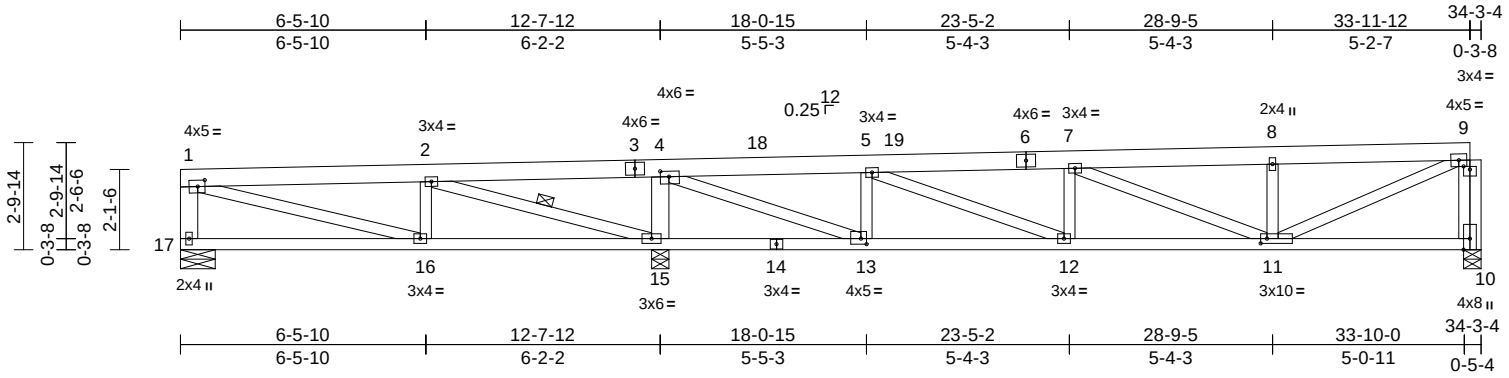
| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934169 |
|---|---|---|---|---|---|
| 3871615 | N43 | Monopitch | 4 | 1 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:15:33 Page: 1

ID:?9KHEy_EwGJfKXoS?LiCB8zjArl-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

PRMU20240139




Scale = 1:60.7

Plate Offsets (X, Y): [1:0-2-4,0-2-0], [4:0-2-12,0-1-12], [9:0-2-0,0-1-0], [11:0-2-0,0-1-8], [13:0-1-12,0-1-12]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.49 | Vert(LL) | -0.09 | 12-13 | >999 | 240 | MT20 | 185/148 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.46 | Vert(CT) | -0.18 | 12-13 | >999 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | YES | WB | 0.50 | Horz(CT) | 0.03 | 10 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-SH | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 171 lb | FT = 10% |

**LUMBER**

| | |
|---|---|
| TOP CHORD | 2x6 DF No.2 |
| BOT CHORD | 2x4 HF No.2 |
| WEBS | 2x4 HF No.2 *Except* 17-1,15-4:2x6 DF No.2 |
| OTHERS | 2x4 HF No.2 |

**BRACING**

| | |
|---|---|
| TOP CHORD | Structural wood sheathing directly applied or 5-3-14 oc purlins, except end verticals. |
| BOT CHORD | Rigid ceiling directly applied or 5-2-0 oc bracing. |
| WEBS | 1 Row at midpt 2-15 |

**REACTIONS** (size) 10=0-5-8, 15=0-5-8, 17=0-11-0
Max Horiz 17=59 (LC 11)
Max Uplift 10=-55 (LC 12), 15=-117 (LC 12), 17=-26 (LC 8)
Max Grav 10=927 (LC 1), 15=2038 (LC 1), 17=395 (LC 1)

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

| | |
|---|---|
| TOP CHORD | 1-17=-333/99, 1-2=-399/71, 2-4=-207/1138, 4-5=-1090/191, 5-7=-1979/328, 7-8=-1541/262, 8-9=-1541/266, 9-10=-878/167 |
| BOT CHORD | 16-17=-104/140, 15-16=-118/394, 13-15=-1131/191, 12-13=-185/1084, 11-12=-321/1974, 10-11=-28/58 |
| WEBS | 4-15=-1436/300, 2-16=0/201, 1-16=-71/297, 2-15=-1594/273, 4-13=-350/2361, 5-13=-725/187, 5-12=-147/958, 7-12=-243/117, 7-11=-475/76, 8-11=-428/151, 9-11=-254/1646 |

**NOTES**

1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) interior zone and C-C Corner (3) 0-2-12 to 15-2-12, Exterior (2) 15-2-12 to 18-10-0, Corner (3) 18-10-0 to 33-10-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
7) Bearing at joint(s) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 26 lb uplift at joint 17, 117 lb uplift at joint 15 and 55 lb uplift at joint 10.
9) 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


February 22,2024

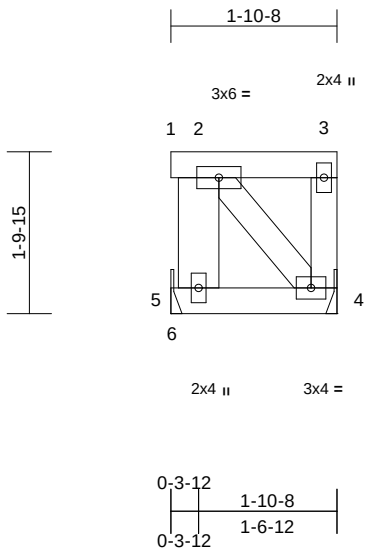


MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934170 |
|---|---|---|---|---|---|
| 3871615 | P01 | Flat | 13 | 1 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:15:35 Page: 1
ID:NUQB0FKsBBdG3_U9gCfs0uzjHh?-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f PRMU20240139




Scale = 1:26

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.10 | Vert(LL) | 0.00 | 4-5 | >999 | 240 | MT20 | 185/148 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.15 | Vert(CT) | 0.00 | 4-5 | >999 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.01 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-SH | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 10 lb | FT = 10% |

**LUMBER**
TOP CHORD 2x4 HF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x4 HF No.2 *Except* 5-2:2x6 DF No.2

**BRACING**
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (size) 4= Mechanical, 6= Mechanical
Max Horiz 6=-38 (LC 8)
Max Uplift 4=-31 (LC 9), 6=-34 (LC 8)
Max Grav 4=244 (LC 1), 6=247 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-5=-243/174, 1-2=0/0, 2-3=-25/25, 3-4=-159/95
BOT CHORD 5-6=-68/68, 4-5=-72/85
WEBS 2-4=-91/77

**NOTES**
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 31 lb uplift at joint 4 and 34 lb uplift at joint 6.
9) 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
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-264, 2-3=-264, 4-6=-20


February 22,2024

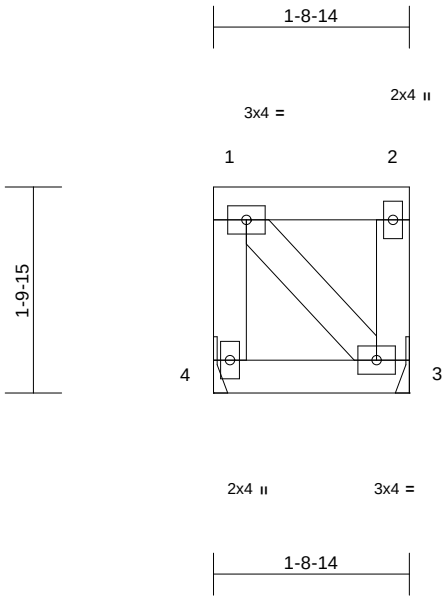


MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934171 |
|---|---|---|---|---|---|
| 3871615 | P02 | Flat | 1 | 1 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:15:35 Page: 1
ID:CN88ddaGdQFX5gQrWSKPZVzjHRA-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?s PRMU20240139




Scale = 1:20.5

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.23 | Vert(LL) | 0.00 | 3-4 | >999 | 240 | MT20 | 185/148 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.02 | Vert(CT) | 0.00 | 3-4 | >999 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | YES | WB | 0.01 | Horz(CT) | 0.00 | 3 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 9 lb | FT = 10% |

**LUMBER**
TOP CHORD 2x4 HF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x4 HF No.2

**BRACING**
TOP CHORD Structural wood sheathing directly applied or 1-8-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (size) 3= Mechanical, 4= Mechanical
Max Horiz 4=38 (LC 11)
Max Grav 3=350 (LC 1), 4=350 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-4=-336/32, 1-2=-19/21, 2-3=-336/6
BOT CHORD 3-4=-53/55
WEBS 1-3=-49/49

**NOTES**
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
7) Refer to girder(s) for truss to truss connections.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

**LOAD CASE(S)** Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-464, 3-4=-20
3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-2=-164, 3-4=-40
4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (lb/ft)
Vert: 1-2=-71, 3-4=-12
Horz: 1-4=17, 2-3=27
5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (lb/ft)
Vert: 1-2=-71, 3-4=-12
Horz: 1-4=-27, 2-3=-17
6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (lb/ft)
Vert: 1-2=-174, 3-4=-20
Horz: 1-4=25, 2-3=19
7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (lb/ft)
Vert: 1-2=-174, 3-4=-20
Horz: 1-4=-19, 2-3=-25
8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (lb/ft)
Vert: 1-2=-116, 3-4=-12
Horz: 1-4=11, 2-3=14
9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (lb/ft)
Vert: 1-2=-116, 3-4=-12
Horz: 1-4=-14, 2-3=-11
10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (lb/ft)
Vert: 1-2=-145, 3-4=-20
Horz: 1-4=18, 2-3=6
11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (lb/ft)
Vert: 1-2=-145, 3-4=-20
Horz: 1-4=-6, 2-3=-18
12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (lb/ft)


February 22,2024

Continued on page 2



MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

Vert: 1-2=-116, 3-4=-12
Horz: 1-4=9, 2-3=13

13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel:
Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (lb/ft)
Vert: 1-2=-116, 3-4=-12
Horz: 1-4=-13, 2-3=-9

14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel:
Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (lb/ft)
Vert: 1-2=-124, 3-4=-12
Horz: 1-4=5, 2-3=10

15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel:
Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (lb/ft)
Vert: 1-2=-124, 3-4=-12
Horz: 1-4=-10, 2-3=-5

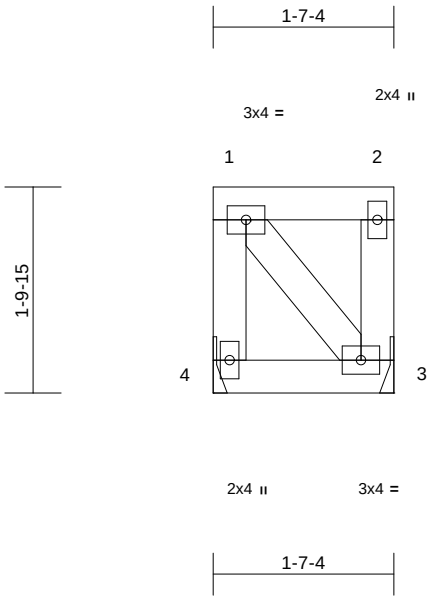
16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel:
Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (lb/ft)
Vert: 1-2=-145, 3-4=-20
Horz: 1-4=17, 2-3=5

17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel:
Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (lb/ft)
Vert: 1-2=-145, 3-4=-20
Horz: 1-4=-5, 2-3=-17

| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934172 |
|---|---|---|---|---|---|
| 3871615 | P03 | Flat | 2 | 1 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:15:36 Page: 1
ID:4fElRtDTOT8U5NGg33avS7zjEJW-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f PRMU20240139




Scale = 1:20.5

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.10 | Vert(LL) | 0.00 | 3-4 | >999 | 240 | MT20 | 185/148 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.03 | Vert(CT) | 0.00 | 3-4 | >999 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | YES | WB | 0.05 | Horz(CT) | 0.00 | 3 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 9 lb | FT = 10% |

**LUMBER**
TOP CHORD 2x4 HF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x4 HF No.2

**BRACING**
TOP CHORD Structural wood sheathing directly applied or 1-7-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

**REACTIONS** (size) 3= Mechanical, 4= Mechanical
Max Horiz 4=38 (LC 11)
Max Uplift 3=-187 (LC 35), 4=-187 (LC 32)
Max Grav 3=302 (LC 56), 4=289 (LC 59)

**FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-4=-292/216, 1-2=-137/129, 2-3=-173/102
BOT CHORD 3-4=-171/148
WEBS 1-3=-231/254

**NOTES**
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 187 lb uplift at joint 4 and 187 lb uplift at joint 3.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) This truss has been designed for a total drag load of 100 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-7-4 for 100.0 plf.

**LOAD CASE(S)** Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-264, 3-4=-20


February 22,2024



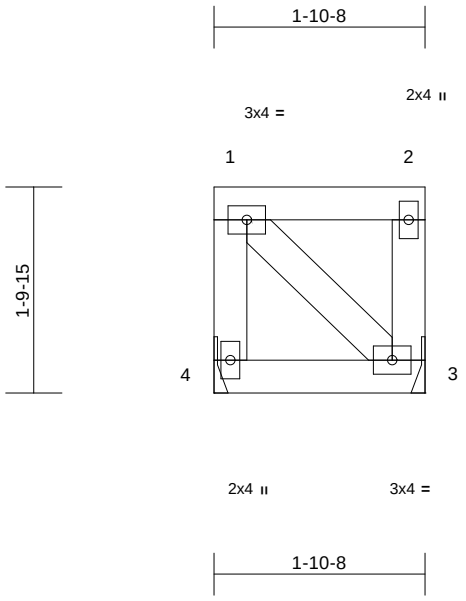
MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934173 |
|---|---|---|---|---|---|
| 3871615 | P04 | Flat | 2 | 1 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:15:37 Page: 1
ID:j9N?FXl?aUE0vNoAHNNlNvzjEK7-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

PRMU20240139




Scale = 1:20.5

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.18 | Vert(LL) | 0.00 | 3-4 | >999 | 240 | MT20 | 185/148 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.03 | Vert(CT) | 0.00 | 3-4 | >999 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.05 | Horz(CT) | 0.00 | 3 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 9 lb | FT = 10% |

**LUMBER**
TOP CHORD 2x4 HF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x4 HF No.2

**BRACING**
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

**REACTIONS** (size) 3= Mechanical, 4= Mechanical
Max Horiz 4=38 (LC 11)
Max Uplift 3=-185 (LC 35), 4=-185 (LC 32)
Max Grav 3=335 (LC 56), 4=319 (LC 59)

**FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-4=-306/244, 1-2=-162/153, 2-3=-209/123
BOT CHORD 3-4=-195/172
WEBS 1-3=-247/268

**NOTES**
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 185 lb uplift at joint 4 and 185 lb uplift at joint 3.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) This truss has been designed for a total drag load of 100 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-8 for 100.0 plf.

**LOAD CASE(S)** Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-264, 3-4=-20


February 22,2024



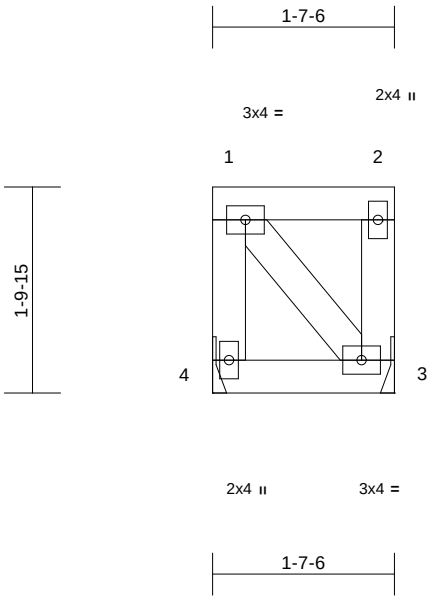
MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934174 |
|---|---|---|---|---|---|
| 3871615 | P05 | Flat | 2 | 1 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:15:38 Page: 1
ID:I1e0UuJoI6ZGzhT3c5D4N5zjEKi-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

PRMU20240139




Scale = 1:20.5

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.12 | Vert(LL) | 0.00 | 3-4 | >999 | 240 | MT20 | 185/148 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.03 | Vert(CT) | 0.00 | 3-4 | >999 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.05 | Horz(CT) | 0.00 | 3 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 9 lb | FT = 10% |

**LUMBER**
TOP CHORD 2x4 HF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x4 HF No.2

**BRACING**
TOP CHORD Structural wood sheathing directly applied or 1-7-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

**REACTIONS** (size) 3= Mechanical, 4= Mechanical
Max Horiz 4=38 (LC 11)
Max Uplift 3=-187 (LC 35), 4=-187 (LC 32)
Max Grav 3=304 (LC 56), 4=290 (LC 59)

**FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-4=-293/217, 1-2=-138/130, 2-3=-175/103
BOT CHORD 3-4=-172/149
WEBS 1-3=-232/255

**NOTES**
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 187 lb uplift at joint 4 and 187 lb uplift at joint 3.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) This truss has been designed for a total drag load of 100 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-7-6 for 100.0 plf.

**LOAD CASE(S)** Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-264, 3-4=-20


February 22,2024



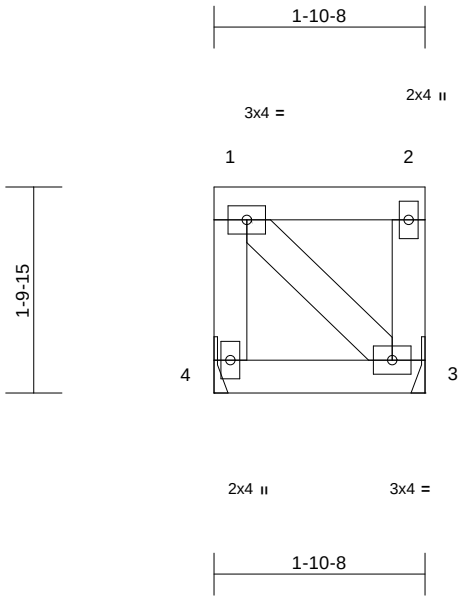
MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934175 |
|---|---|---|---|---|---|
| 3871615 | P06 | Flat | 8 | 1 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:15:38 Page: 1
ID:i_9bj16hci5JbUO2JpxssDzjEMF-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

PRMU20240139




Scale = 1:20.5

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.18 | Vert(LL) | 0.00 | 3-4 | >999 | 240 | MT20 | 185/148 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.03 | Vert(CT) | 0.00 | 3-4 | >999 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.05 | Horz(CT) | 0.00 | 3 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 9 lb | FT = 10% |

**LUMBER**
TOP CHORD 2x4 HF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x4 HF No.2

**BRACING**
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

**REACTIONS** (size) 3= Mechanical, 4= Mechanical
Max Horiz 4=38 (LC 11)
Max Uplift 3=-185 (LC 35), 4=-185 (LC 32)
Max Grav 3=335 (LC 56), 4=319 (LC 59)

**FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-4=-306/244, 1-2=-162/153, 2-3=-209/123
BOT CHORD 3-4=-195/172
WEBS 1-3=-247/268

**NOTES**
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 185 lb uplift at joint 4 and 185 lb uplift at joint 3.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) This truss has been designed for a total drag load of 100 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-8 for 100.0 plf.

**LOAD CASE(S)** Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-264, 3-4=-20


February 22,2024

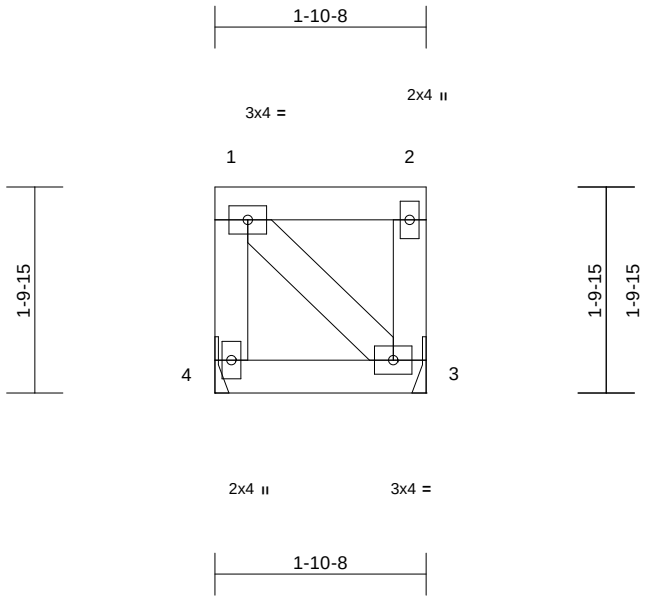


MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934176 |
|---|---|---|---|---|---|
| 3871615 | P07 | Flat | 2 | 1 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:15:38 Page: 1
ID:sptKXUZTUG?tHHhpVAYhvKzjEHo-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f PRMU20240139




Scale = 1:20.5

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.18 | Vert(LL) | 0.00 | 3-4 | >999 | 240 | MT20 | 185/148 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.03 | Vert(CT) | 0.00 | 3-4 | >999 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.05 | Horz(CT) | 0.00 | 3 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 9 lb | FT = 10% |

**LUMBER**
TOP CHORD 2x4 HF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x4 HF No.2

**BRACING**
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

**REACTIONS** (size) 3= Mechanical, 4= Mechanical
Max Horiz 4=38 (LC 11)
Max Uplift 3=-185 (LC 35), 4=-185 (LC 32)
Max Grav 3=335 (LC 56), 4=319 (LC 59)

**FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-4=-306/244, 1-2=-162/153, 2-3=-209/123
BOT CHORD 3-4=-195/172
WEBS 1-3=-247/268

**NOTES**
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 185 lb uplift at joint 4 and 185 lb uplift at joint 3.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) This truss has been designed for a total drag load of 100 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-8 for 100.0 plf.

**LOAD CASE(S)** Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-264, 3-4=-20


February 22,2024

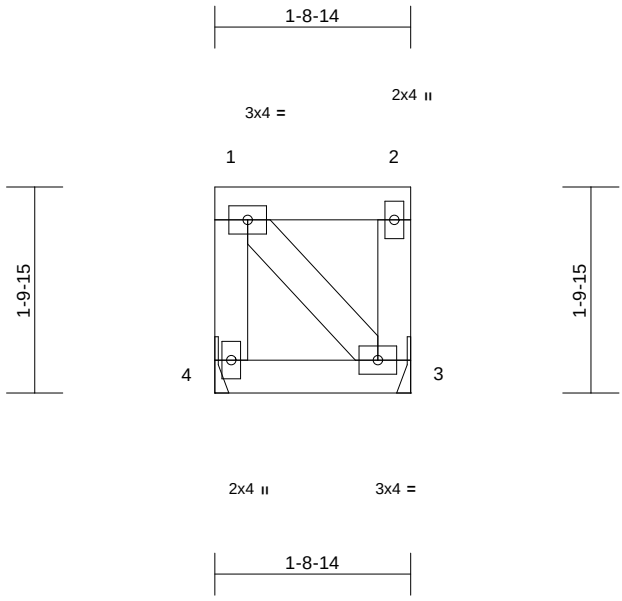


MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934177 |
|---|---|---|---|---|---|
| 3871615 | P08 | Flat | 1 | 1 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:15:39 Page: 1
ID:WdJteHhOVy_gT3M3rw?WOezjCHp-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC? PRMU20240139




Scale = 1:20.5

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.14 | Vert(LL) | 0.00 | 3-4 | >999 | 240 | MT20 | 185/148 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.02 | Vert(CT) | 0.00 | 3-4 | >999 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.01 | Horz(CT) | 0.00 | 3 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 9 lb | FT = 10% |

**LUMBER**
TOP CHORD 2x4 HF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x4 HF No.2

**BRACING**
TOP CHORD Structural wood sheathing directly applied or 1-8-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (size) 3= Mechanical, 4= Mechanical
Max Horiz 4=38 (LC 9)
Max Uplift 3=-32 (LC 9), 4=-32 (LC 8)
Max Grav 3=206 (LC 1), 4=206 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-4=-191/149, 1-2=-19/21, 2-3=-191/113
BOT CHORD 3-4=-53/55
WEBS 1-3=-49/49

**NOTES**
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 32 lb uplift at joint 4 and 32 lb uplift at joint 3.
9) 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
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-264, 3-4=-20


February 22,2024

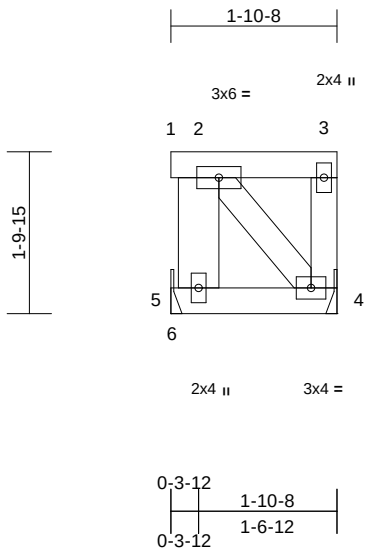


MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934178 |
|---|---|---|---|---|---|
| 3871615 | P09 | Flat | 13 | 1 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:15:40 Page: 1
ID:9aPGJJobhWn1CrH135BOwFzjCIy-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f PRMU20240139




Scale = 1:26

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.10 | Vert(LL) | 0.00 | 4-5 | >999 | 240 | MT20 | 185/148 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.15 | Vert(CT) | 0.00 | 4-5 | >999 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.01 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-SH | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 10 lb | FT = 10% |

**LUMBER**
TOP CHORD 2x4 HF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x4 HF No.2 *Except* 5-2:2x6 DF No.2

**BRACING**
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (size) 4= Mechanical, 6= Mechanical
Max Horiz 6=-38 (LC 8)
Max Uplift 4=-31 (LC 9), 6=-34 (LC 8)
Max Grav 4=244 (LC 1), 6=247 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-5=-243/174, 1-2=0/0, 2-3=-25/25, 3-4=-159/95
BOT CHORD 5-6=-68/68, 4-5=-72/85
WEBS 2-4=-91/77

**NOTES**
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 31 lb uplift at joint 4 and 34 lb uplift at joint 6.
9) 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
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-264, 2-3=-264, 4-6=-20


February 22,2024



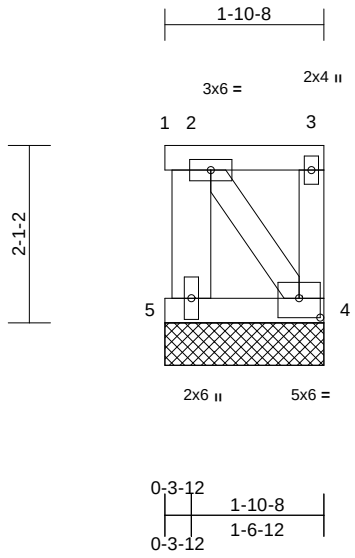
MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934179 |
|---|---|---|---|---|---|
| 3871615 | P10 | Flat Supported Gable | 49 | 1 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:15:40 Page: 1
ID:Q5pJoGlG1ei2ncDqe5qLSSzjBOw-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

PRMU20240139




Scale = 1:27.2

Plate Offsets (X, Y): [4:0-3-0,0-2-12]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.10 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 185/148 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.06 | Vert(TL) | n/a | - | n/a | 999 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.10 | Horiz(TL) | -0.01 | 5 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 11 lb | FT = 10% |

**LUMBER**
TOP CHORD 2x4 HF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x4 HF No.2 *Except* 5-2:2x6 DF No.2

**BRACING**
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

**REACTIONS** (size) 1=1-10-8, 4=1-10-8, 5=1-10-8
Max Horiz 1=-116 (LC 36)
Max Uplift 1=-60 (LC 52), 4=-430 (LC 33), 5=-392 (LC 34)
Max Grav 1=59 (LC 33), 4=449 (LC 38), 5=408 (LC 53)

**FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-5=-394/491, 1-2=-155/108, 2-3=-339/332, 3-4=-49/50
BOT CHORD 4-5=-307/321
WEBS 2-4=-596/559

**NOTES**
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
10) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 392 lb uplift at joint 5, 60 lb uplift at joint 1 and 430 lb uplift at joint 4.
12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
13) This truss has been designed for a total drag load of 228 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-8 for 228.0 plf.

**LOAD CASE(S)** Standard


February 22,2024

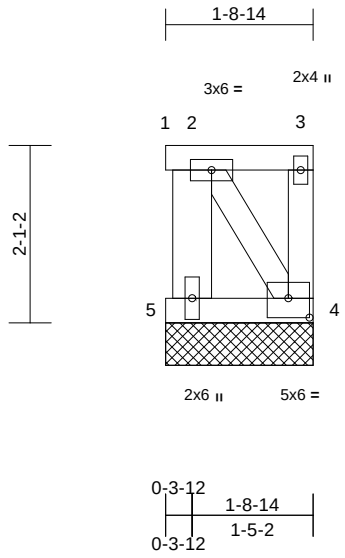


MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934180 |
|---|---|---|---|---|---|
| 3871615 | P11 | Flat Supported Gable | 4 | 1 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:15:41 Page: 1
ID:vBQLUMUSyxW6DMYDr?8sI?ziufp-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f PRMU20240139




Scale = 1:27.2

Plate Offsets (X, Y): [4:0-3-0,0-2-12]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.09 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 185/148 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.05 | Vert(TL) | n/a | - | n/a | 999 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.10 | Horiz(TL) | -0.01 | 5 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 11 lb | FT = 10% |

**LUMBER**
TOP CHORD 2x4 HF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x4 HF No.2 *Except* 5-2:2x6 DF No.2

**BRACING**
TOP CHORD Structural wood sheathing directly applied or 1-8-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

**REACTIONS** (size) 1=1-8-14, 4=1-8-14, 5=1-8-14
Max Horiz 1=-116 (LC 36)
Max Uplift 1=-60 (LC 38), 4=-430 (LC 33), 5=-385 (LC 34)
Max Grav 1=62 (LC 33), 4=447 (LC 38), 5=397 (LC 37)

**FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-5=-385/470, 1-2=-144/108, 2-3=-309/301, 3-4=-47/49
BOT CHORD 4-5=-279/287
WEBS 2-4=-573/543

**NOTES**
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
3) Provide adequate drainage to prevent water ponding.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 385 lb uplift at joint 5, 60 lb uplift at joint 1 and 430 lb uplift at joint 4.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) This truss has been designed for a total drag load of 228 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-8-14 for 228.0 plf.

**LOAD CASE(S)** Standard


February 22,2024



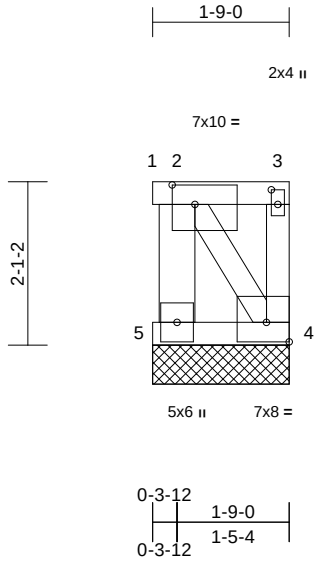
MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934181 |
|---|---|---|---|---|---|
| 3871615 | P12 | Flat Supported Gable | 22 | 1 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:15:42 Page: 1
ID:xAE1jIllvO4a95L9Im?jNRziucu-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

PRMU20240139




Scale = 1:29.5

Plate Offsets (X, Y): [2:0-3-8,0-3-0], [3:0-2-4,0-1-0], [4:Edge,0-3-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.99 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 185/148 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.58 | Vert(TL) | n/a | - | n/a | 999 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.74 | Horiz(TL) | -0.05 | 5 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 12 lb | FT = 10% |

**LUMBER**
TOP CHORD 2x4 DF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x6 DF No.2 *Except* 3-4:2x4 HF No.2, 2-4:2x4 DF 1800F 1.6E

**BRACING**
TOP CHORD Structural wood sheathing directly applied or 1-9-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 3-2-3 oc bracing.

**REACTIONS** (size) 1=1-9-0, 4=1-9-0, 5=1-9-0
Max Horiz 1=-899 (LC 32)
Max Uplift 1=-766 (LC 38), 4=-4783 (LC 33), 5=-4031 (LC 34)
Max Grav 1=767 (LC 33), 4=4800 (LC 38), 5=4043 (LC 37)

**FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-5=-4031/4114, 1-2=-849/814, 2-3=-3556/3546, 3-4=-204/221
BOT CHORD 4-5=-3197/3205
WEBS 2-4=-6137/6107

**NOTES**
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
3) Provide adequate drainage to prevent water ponding.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 4031 lb uplift at joint 5, 766 lb uplift at joint 1 and 4783 lb uplift at joint 4.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) This truss has been designed for a total drag load of 2736 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-9-0 for 2736.0 plf.

**LOAD CASE(S)** Standard


February 22,2024



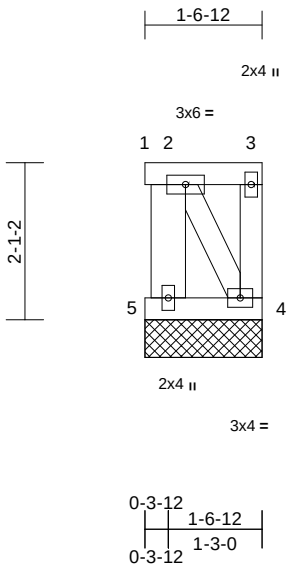
MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934182 |
|---|---|---|---|---|---|
| 3871615 | P13 | Flat Supported Gable | 2 | 1 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:15:42 Page: 1
ID:?8lP8gmpNuXocrB6fi_AExziubb-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

PRMU20240139




Scale = 1:30.7

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.02 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 185/148 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.01 | Vert(TL) | n/a | - | n/a | 999 | | |
| TCDL | 15.0 | Rep Stress Incr | YES | WB | 0.01 | Horiz(TL) | 0.00 | 5 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 11 lb | FT = 10% |

**LUMBER**
TOP CHORD 2x4 HF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x4 HF No.2 *Except* 5-2:2x6 DF No.2

**BRACING**
TOP CHORD Structural wood sheathing directly applied or 1-6-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (size) 1=1-6-12, 4=1-6-12, 5=1-6-12
Max Horiz 1=-44 (LC 10)
Max Uplift 1=-8 (LC 20), 4=-37 (LC 8), 5=-41 (LC 9)
Max Grav 1=7 (LC 8), 4=63 (LC 20), 5=92 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-5=-94/116, 1-2=-80/80, 2-3=-22/24, 3-4=-39/33
BOT CHORD 4-5=-22/24
WEBS 2-4=-76/76

**NOTES**
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
3) Provide adequate drainage to prevent water ponding.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 41 lb uplift at joint 5, 8 lb uplift at joint 1 and 37 lb uplift at joint 4.
9) 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


February 22,2024



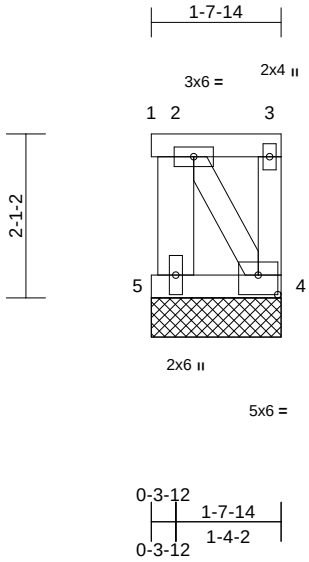
MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934183 |
|---|---|---|---|---|---|
| 3871615 | P14 | Flat | 3 | 1 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:15:43 Page: 1
ID:Ufu2BjjcRM20B9oNERdjWNziuFi-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

PRMU20240139




Scale = 1:29.4

Plate Offsets (X, Y): [4:0-3-0,0-3-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.11 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 185/148 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.06 | Vert(TL) | n/a | - | n/a | 999 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.12 | Horiz(TL) | -0.01 | 5 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 11 lb | FT = 10% |

**LUMBER**
TOP CHORD 2x4 HF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x4 HF No.2 *Except* 5-2:2x6 DF No.2

**BRACING**
TOP CHORD Structural wood sheathing directly applied or 1-7-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

**REACTIONS** (size) 1=1-7-14, 4=1-7-14, 5=1-7-14
Max Horiz 1=-134 (LC 32)
Max Uplift 1=-78 (LC 38), 4=-535 (LC 33), 5=-470 (LC 34)
Max Grav 1=79 (LC 33), 4=551 (LC 38), 5=482 (LC 37)

**FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-5=-470/550, 1-2=-161/125, 2-3=-361/358, 3-4=-49/53
BOT CHORD 4-5=-327/335
WEBS 2-4=-695/664

**NOTES**
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
3) Provide adequate drainage to prevent water ponding.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 470 lb uplift at joint 5, 78 lb uplift at joint 1 and 535 lb uplift at joint 4.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) This truss has been designed for a total drag load of 288 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-7-14 for 288.0 plf.

**LOAD CASE(S)** Standard


February 22,2024

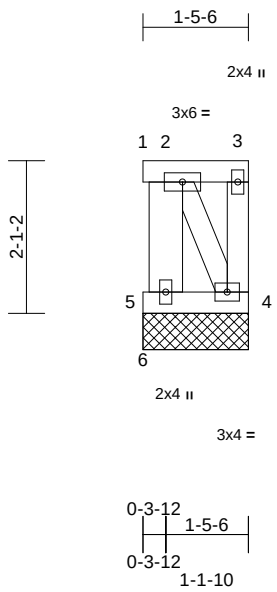


MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934184 |
|---|---|---|---|---|---|
| 3871615 | P15 | Flat Supported Gable | 2 | 1 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:15:44 Page: 1
ID:gPDmvM4Up4H_FWw5Lg9DbCziuDx-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?r PRMU20240139




Scale = 1:31.6

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.02 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 185/148 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.01 | Vert(CT) | n/a | - | n/a | 999 | | |
| TCDL | 15.0 | Rep Stress Incr | YES | WB | 0.01 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 10 lb | FT = 10% |

**LUMBER**
TOP CHORD 2x4 HF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x4 HF No.2 *Except* 5-2:2x6 DF No.2

**BRACING**
TOP CHORD Structural wood sheathing directly applied or 1-5-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (size) 4=1-5-6, 5=1-5-6
Max Horiz 5=-44 (LC 10)
Max Uplift 4=-44 (LC 9), 5=-49 (LC 8)
Max Grav 4=63 (LC 19), 5=95 (LC 20)

**FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-5=-105/125, 1-2=0/0, 2-3=-22/24, 3-4=-36/28
BOT CHORD 5-6=0/0, 4-5=-62/64
WEBS 2-4=-83/83

**NOTES**
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
3) Provide adequate drainage to prevent water ponding.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 49 lb uplift at joint 5 and 44 lb uplift at joint 4.
9) 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


February 22,2024



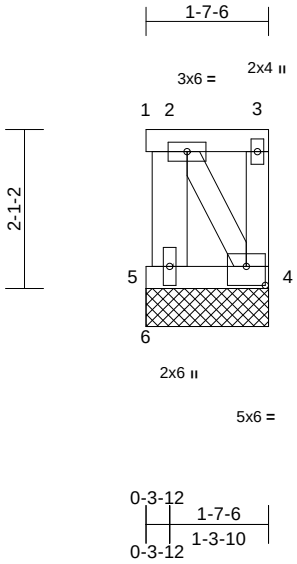
MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934185 |
|---|---|---|---|---|---|
| 3871615 | P16 | Flat Supported Gable | 2 | 1 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:15:44 Page: 1
ID:hIwlt2W8oeH50pXzp9n7wIziuC4-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

PRMU20240139




Scale = 1:30.4

Plate Offsets (X, Y): [4:0-3-0,0-3-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.07 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 185/148 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.06 | Vert(CT) | n/a | - | n/a | 999 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.13 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 11 lb | FT = 10% |

**LUMBER**
TOP CHORD 2x4 HF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x4 HF No.2 *Except* 5-2:2x6 DF No.2

**BRACING**
TOP CHORD Structural wood sheathing directly applied or 1-7-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

**REACTIONS** (size) 4=1-7-6, 5=1-7-6
Max Horiz 5=-134 (LC 33)
Max Uplift 4=-558 (LC 35), 5=-563 (LC 32)
Max Grav 4=571 (LC 36), 5=586 (LC 39)

**FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-5=-617/574, 1-2=0/0, 2-3=-355/345, 3-4=-43/34
BOT CHORD 5-6=-90/90, 4-5=-362/334
WEBS 2-4=-658/691

**NOTES**
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
3) Provide adequate drainage to prevent water ponding.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 563 lb uplift at joint 5 and 558 lb uplift at joint 4.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) This truss has been designed for a total drag load of 288 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-7-6 for 288.0 plf.

**LOAD CASE(S)** Standard


February 22,2024

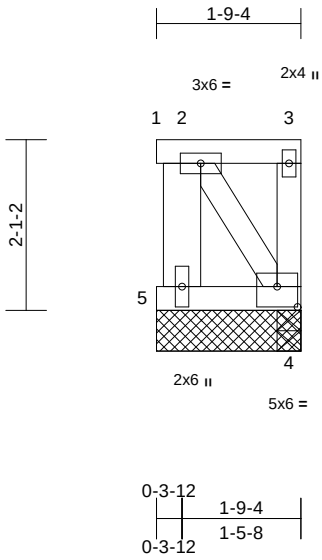


MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934186 |
|---|---|---|---|---|---|
| 3871615 | P17 | Flat | 2 | 1 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:15:45 Page: 1
ID:FUyNRd6RE?W2QvASfWUCELziuZs-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f PRMU20240139




Scale = 1:28.3

Plate Offsets (X, Y): [4:0-3-0,0-3-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.12 | Vert(LL) | 0.00 | 4-5 | >999 | 240 | MT20 | 185/148 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.07 | Vert(CT) | 0.00 | 4-5 | >999 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.12 | Horz(CT) | -0.01 | 5 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 11 lb | FT = 10% |

**LUMBER**
TOP CHORD 2x4 HF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x4 HF No.2 *Except* 5-2:2x6 DF No.2

**BRACING**
TOP CHORD Structural wood sheathing directly applied or 1-9-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

**REACTIONS** (size) 1=1-9-4, 4=1-9-4, 5=1-9-4
Max Horiz 1=-123 (LC 36)
Max Uplift 1=-74 (LC 52), 4=-519 (LC 33), 5=-467 (LC 34)
Max Grav 1=73 (LC 33), 4=533 (LC 52), 5=489 (LC 53)

**FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-5=-476/546, 1-2=-130/114, 2-3=-378/378
BOT CHORD 4-5=-357/364
WEBS 2-4=-684/670, 3-4=-50/52

**NOTES**
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 467 lb uplift at joint 5, 74 lb uplift at joint 1 and 519 lb uplift at joint 4.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) This truss has been designed for a total drag load of 288 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-9-4 for 288.0 plf.

**LOAD CASE(S)** Standard


February 22,2024

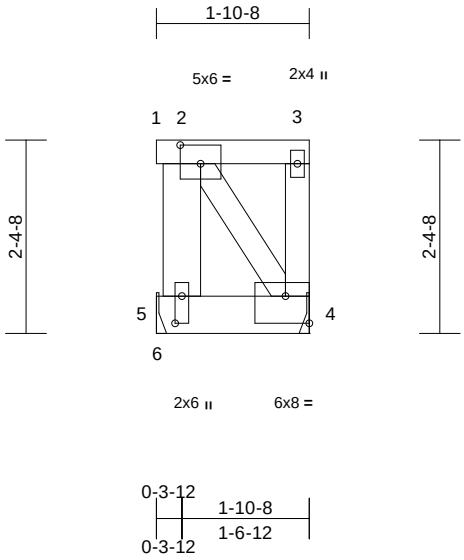


MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934187 |
|---|---|---|---|---|---|
| 3871615 | P18 | Flat | 14 | 1 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:15:45 Page: 1
ID:wNMl3tbKSqC9iW2eVqeUGmzjZ10-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f PRMU20240139




Scale = 1:28.3

Plate Offsets (X, Y): [2:0-3-0,0-2-12], [4:Edge,0-4-0], [5:0-4-0,0-1-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.27 | Vert(LL) | 0.00 | 4-5 | >999 | 240 | MT20 | 220/195 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.18 | Vert(CT) | 0.00 | 4-5 | >999 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.06 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-SH | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 14 lb | FT = 10% |

**LUMBER**
TOP CHORD 2x4 HF No.2
BOT CHORD 2x6 DF No.2
WEBS 2x4 HF No.2 *Except* 5-2:2x6 DF No.2

**BRACING**
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

**REACTIONS** (size) 4= Mechanical, 6= Mechanical
Max Horiz 6=-79 (LC 33)
Max Uplift 4=-230 (LC 35), 6=-234 (LC 32)
Max Grav 4=766 (LC 56), 6=731 (LC 57)

**FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-5=-805/511, 1-2=0/0, 2-3=-172/152, 3-4=-437/241
BOT CHORD 5-6=-115/88, 4-5=-224/206
WEBS 2-4=-318/332

**NOTES**
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 230 lb uplift at joint 4 and 234 lb uplift at joint 6.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) This truss has been designed for a total drag load of 100 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-8 for 100.0 plf.

**LOAD CASE(S)** Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-722, 2-3=-722, 4-6=-20


February 22,2024

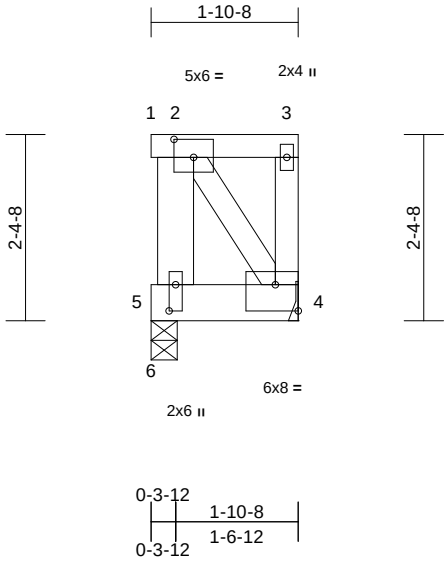



MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934188 |
|---|---|---|---|---|---|
| 3871615 | P18A | Flat | 2 | 1 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:15:46 Page: 1
ID:wNMl3tbKSqC9iW2eVqeUGmzjZ10-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f PRMU20240139




Scale = 1:29.4

Plate Offsets (X, Y): [2:0-3-0,0-2-12], [4:Edge,0-4-0], [5:0-4-0,0-1-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.34 | Vert(LL) | 0.00 | 5 | >999 | 240 | MT20 | 220/195 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.02 | Vert(CT) | 0.00 | 5 | >999 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.06 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 14 lb | FT = 10% |

**LUMBER**
TOP CHORD 2x4 HF No.2
BOT CHORD 2x6 DF No.2
WEBS 2x4 HF No.2 *Except* 5-2:2x6 DF No.2

**BRACING**
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

**REACTIONS** (size) 4= Mechanical, 5=0-4-0
Max Horiz 5=-80 (LC 33)
Max Uplift 4=-264 (LC 35), 5=-283 (LC 32)
Max Grav 4=663 (LC 56), 5=886 (LC 57)

**FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-5=-865/545, 1-2=0/0, 2-3=-166/156, 3-4=-487/261
BOT CHORD 5-6=-31/31, 4-5=-196/166
WEBS 2-4=-287/321

**NOTES**
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 283 lb uplift at joint 5 and 264 lb uplift at joint 4.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) This truss has been designed for a total drag load of 100 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-8 for 100.0 plf.

**LOAD CASE(S)** Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-722, 2-3=-722, 4-6=-20


February 22,2024

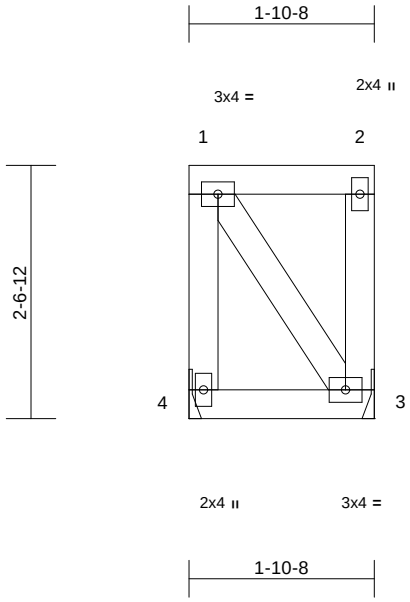


MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934189 |
|---|---|---|---|---|---|
| 3871615 | P19 | Flat | 17 | 1 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:15:47 Page: 1
ID:TTr5BwCJeThsCZkVUFwaKGzixCt-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f PRMU20240139




Scale = 1:23.3

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.18 | Vert(LL) | 0.00 | 3-4 | >999 | 240 | MT20 | 185/148 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.02 | Vert(CT) | 0.00 | 3-4 | >999 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.01 | Horz(CT) | 0.00 | 3 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 12 lb | FT = 10% |

**LUMBER**
TOP CHORD 2x4 HF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x4 HF No.2

**BRACING**
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (size) 3= Mechanical, 4= Mechanical
Max Horiz 4=-56 (LC 10)
Max Uplift 3=-53 (LC 9), 4=-53 (LC 8)
Max Grav 3=236 (LC 19), 4=225 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-4=-209/195, 1-2=-28/31, 2-3=-209/123
BOT CHORD 3-4=-78/81
WEBS 1-3=-88/88

**NOTES**
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 53 lb uplift at joint 4 and 53 lb uplift at joint 3.
9) 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
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-264, 3-4=-20


February 22,2024



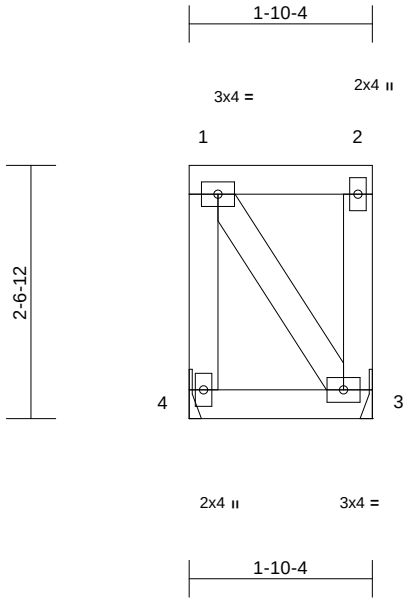
MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934190 |
|---|---|---|---|---|---|
| 3871615 | P20 | Flat | 2 | 1 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:15:47 Page: 1
ID:nvtSxZ6M_W8Di5zwNVmAt4zixBi-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

PRMU20240139




Scale = 1:23.3

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.17 | Vert(LL) | 0.00 | 3-4 | >999 | 240 | MT20 | 185/148 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.02 | Vert(CT) | 0.00 | 3-4 | >999 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.01 | Horz(CT) | 0.00 | 3 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 12 lb | FT = 10% |

**LUMBER**
TOP CHORD 2x4 HF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x4 HF No.2

**BRACING**
TOP CHORD Structural wood sheathing directly applied or 1-10-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (size) 3= Mechanical, 4= Mechanical
Max Horiz 4=-56 (LC 10)
Max Uplift 3=-54 (LC 9), 4=-54 (LC 8)
Max Grav 3=233 (LC 19), 4=222 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-4=-206/195, 1-2=-28/31, 2-3=-206/122
BOT CHORD 3-4=-78/81
WEBS 1-3=-88/88

**NOTES**
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 54 lb uplift at joint 4 and 54 lb uplift at joint 3.
9) 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
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-264, 3-4=-20


February 22,2024



MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

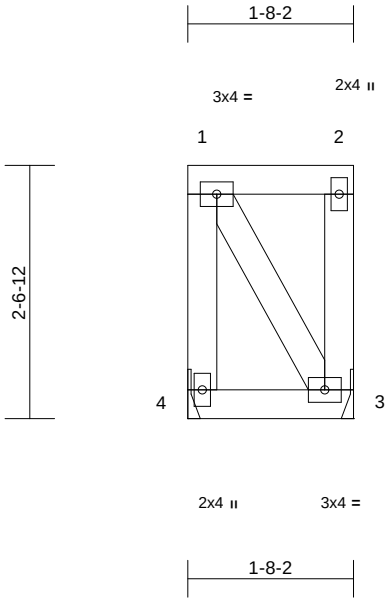
| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934191 |
|---|---|---|---|---|---|
| 3871615 | P21 | Flat | 1 | 1 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:15:48 Page: 1

ID:3kpgxXvREOBItaubqcI6iuzix?2-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

PRMU20240139




Scale = 1:23.3

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.13 | Vert(LL) | 0.00 | 3-4 | >999 | 240 | MT20 | 185/148 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.02 | Vert(CT) | 0.00 | 3-4 | >999 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.01 | Horz(CT) | 0.00 | 3 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 11 lb | FT = 10% |

**LUMBER**

TOP CHORD 2x4 HF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x4 HF No.2

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 1-8-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (size) 3= Mechanical, 4= Mechanical
Max Horiz 4=-56 (LC 10)
Max Uplift 3=-57 (LC 9), 4=-57 (LC 8)
Max Grav 3=214 (LC 19), 4=200 (LC 20)

**FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-4=-187/190, 1-2=-28/31, 2-3=-183/108
BOT CHORD 3-4=-78/81
WEBS 1-3=-96/96

**NOTES**

1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 57 lb uplift at joint 4 and 57 lb uplift at joint 3.
9) 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

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-264, 3-4=-20


February 22,2024



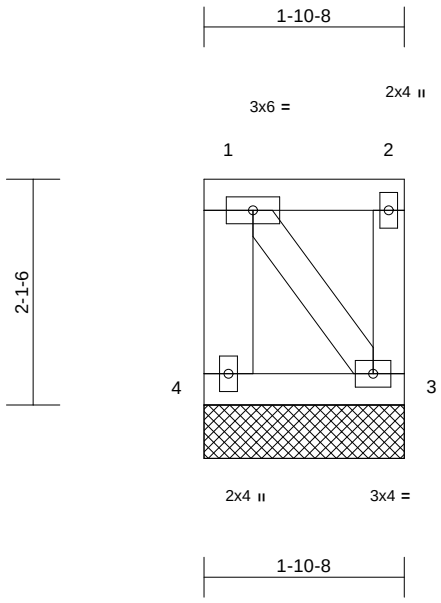
MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934192 |
|---|---|---|---|---|---|
| 3871615 | P22 | Flat Supported Gable | 50 | 1 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:15:48 Page: 1
ID:sJa?mfVbrVHRT0?4l1UjvEzjBRq-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

PRMU20240139




Scale = 1:21.6

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.04 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 185/148 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.02 | Vert(TL) | n/a | - | n/a | 999 | | |
| TCDL | 15.0 | Rep Stress Incr | YES | WB | 0.01 | Horiz(TL) | 0.00 | 3 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 12 lb | FT = 10% |

**LUMBER**
TOP CHORD 2x4 HF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x4 HF No.2 *Except* 4-1:2x6 DF No.2

**BRACING**
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (size) 3=1-10-8, 4=1-10-8
Max Horiz 4=45 (LC 9)
Max Uplift 3=-32 (LC 9), 4=-32 (LC 8)
Max Grav 3=76 (LC 19), 4=76 (LC 20)

**FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-4=-79/96, 1-2=-23/25, 2-3=-60/47
BOT CHORD 3-4=-63/65
WEBS 1-3=-63/63

**NOTES**
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
3) Provide adequate drainage to prevent water ponding.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 32 lb uplift at joint 4 and 32 lb uplift at joint 3.
9) 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


February 22,2024

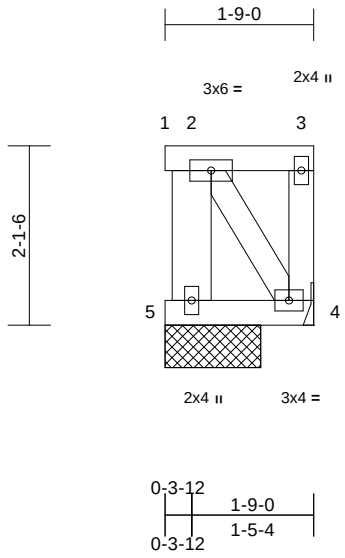


MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934193 |
|---|---|---|---|---|---|
| 3871615 | P23 | Flat | 2 | 1 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:15:49 Page: 1
ID:6O7K3Q_b3Exu1e?HrTFwE6zjAKB-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f PRMU20240139




Scale = 1:27.1

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.03 | Vert(LL) | 0.00 | 4-5 | >999 | 240 | MT20 | 185/148 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.01 | Vert(CT) | 0.00 | 4-5 | >999 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | YES | WB | 0.01 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 11 lb | FT = 10% |

**LUMBER**
TOP CHORD 2x4 HF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x4 HF No.2 *Except* 5-2:2x6 DF No.2

**BRACING**
TOP CHORD Structural wood sheathing directly applied or 1-9-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (size) 4= Mechanical, 5=1-1-8
Max Horiz 5=45 (LC 9)
Max Uplift 4=-35 (LC 9), 5=-45 (LC 8)
Max Grav 4=69 (LC 19), 5=93 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-5=-95/118, 1-2=0/0, 2-3=-23/25, 3-4=-49/38
BOT CHORD 4-5=-63/65
WEBS 2-4=-70/70

**NOTES**
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 45 lb uplift at joint 5 and 35 lb uplift at joint 4.
9) 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


February 22,2024



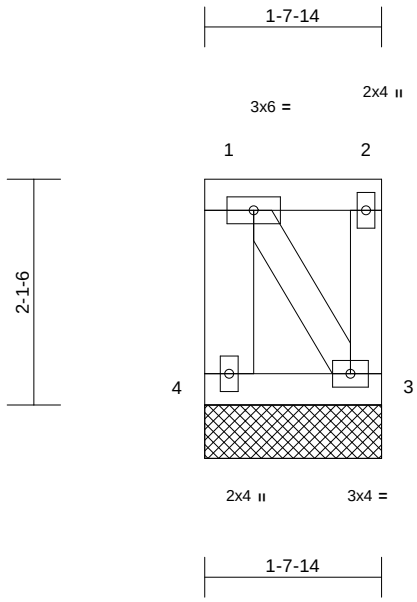
MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934194 |
|---|---|---|---|---|---|
| 3871615 | P24 | Flat Supported Gable | 2 | 1 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:15:49 Page: 1
ID:ts?WOLCq0MFiaZlxvtG4Geziuk3-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

PRMU20240139




Scale = 1:21.6

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.03 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 185/148 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.01 | Vert(TL) | n/a | - | n/a | 999 | | |
| TCDL | 15.0 | Rep Stress Incr | YES | WB | 0.01 | Horiz(TL) | 0.00 | 3 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 11 lb | FT = 10% |

**LUMBER**
TOP CHORD 2x4 HF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x4 HF No.2 *Except* 4-1:2x6 DF No.2

**BRACING**
TOP CHORD Structural wood sheathing directly applied or 1-7-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (size) 3=1-7-14, 4=1-7-14
Max Horiz 4=45 (LC 9)
Max Uplift 3=-36 (LC 9), 4=-36 (LC 8)
Max Grav 3=71 (LC 19), 4=71 (LC 20)

**FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-4=-83/97, 1-2=-23/25, 2-3=-51/40
BOT CHORD 3-4=-63/65
WEBS 1-3=-70/70

**NOTES**
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
3) Provide adequate drainage to prevent water ponding.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 36 lb uplift at joint 4 and 36 lb uplift at joint 3.
9) 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


February 22,2024



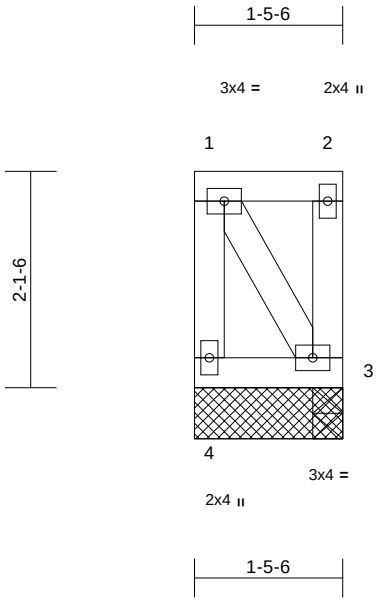
MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING R80934195 |
|---|---|---|---|---|---|
| 3871615 | P25 | Flat | 4 | 1 | Job Reference (optional) |

Builders FirstSource (Arlington, WA), Arlington, WA - 98223,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 15:15:50 Page: 1
ID:zwXa0TV0_Lcan221iTlFb7ziumF-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

PRMU20240139




Scale = 1:22.5

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.02 | Vert(LL) | 0.00 | 3-4 | >999 | 240 | MT20 | 185/148 |
| (Roof Snow = 25.0) | | Lumber DOL | 1.15 | BC | 0.01 | Vert(CT) | 0.00 | 3-4 | >999 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | YES | WB | 0.01 | Horz(CT) | 0.00 | 3 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2018/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 9 lb | FT = 10% |

**LUMBER**
TOP CHORD 2x4 HF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x4 HF No.2

**BRACING**
TOP CHORD Structural wood sheathing directly applied or 1-5-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (size) 3=1-5-6, 4=1-5-6
Max Horiz 4=33 (LC 11)
Max Uplift 3=-19 (LC 9), 4=-23 (LC 8)
Max Grav 3=58 (LC 1), 4=62 (LC 20)

**FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-23/25, 2-3=-46/36
BOT CHORD 3-4=-45/49
WEBS 1-4=-59/75, 1-3=-46/42

**NOTES**
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 19 lb uplift at joint 3 and 23 lb uplift at joint 4.
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


February 22,2024

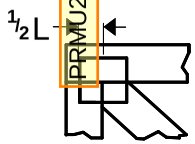


MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

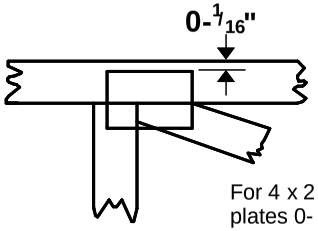
# Symbols



### PLATE LOCATION AND ORIENTATION




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




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

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

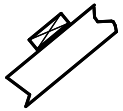
* Plate location details available in MiTek software or upon request.

### PLATE SIZE

4 x 4

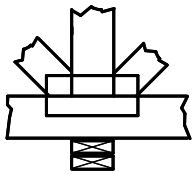
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

### LATERAL BRACING LOCATION



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

### BEARING

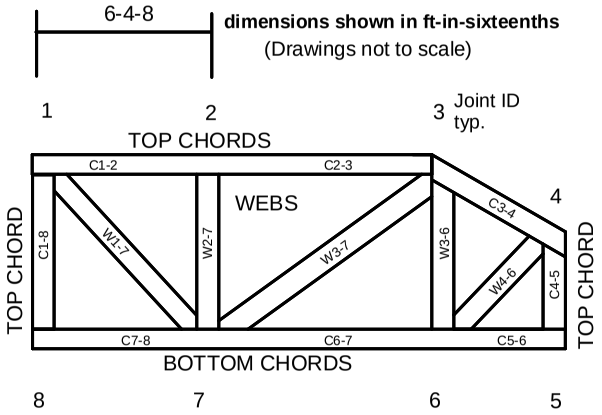


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

**Industry Standards:**

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

# Numbering System




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

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

# Product Code Approvals

ICC-ES Reports:

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

# Design General Notes

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

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



MiTek®



# General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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