

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



#### MiTek, Inc.

400 Sunrise Ave., Suite 270 Roseville, CA 95661 916.755.3571

Re: 3907862

#### MKM LEGACY EAST TOWN CROSSING BLD G

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: R81482205 thru R81482267

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



March 26,2024

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.





| Job     | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING BLD G   |
|---------|-------|------------|-----|-----|---------------------------------------|
| 3907862 | A01   | Common     | 12  | 1   | R81482205<br>Job Reference (optional) |

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 25 09:36:44 Page: 1 ID:8NsSnh4PRCeCOTunK\_MfWLzZ3bk-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f PRMU20240404



|           | 8-1-0 | 15 | -7-8 | 23-8-8 |  |
|-----------|-------|----|------|--------|--|
|           | 8-1-0 | 7- | -6-8 | 8-1-0  |  |
| le = 1:47 |       |    |      |        |  |
| ,         |       |    |      |        |  |

| Loading     | (psf) | Spacing         | 2-0-0           | CSI       |      | DEFL     | in    | (loc) | l/defl | L/d | PLATES        | GRIP     |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 25.0  | Plate Grip DOL  | 1.15            | TC        | 0.54 | Vert(LL) | -0.14 | 8-10  | >999   | 240 | MT20          | 185/148  |
| TCDL        | 15.0  | Lumber DOL      | 1.15            | BC        | 0.78 | Vert(CT) | -0.30 | 6-8   | >942   | 180 |               |          |
| BCLL        | 0.0*  | Rep Stress Incr | YES             | WB        | 0.16 | Horz(CT) | 0.07  | 6     | n/a    | n/a |               |          |
| BCDL        | 10.0  | Code            | IBC2018/TPI2014 | Matrix-SH |      |          |       |       |        |     | Weight: 85 lb | FT = 10% |

| LL | JN | ΛE | ЗE | ER |
|----|----|----|----|----|
|    |    |    |    |    |

Sca

| TOP CHORD | 2x4 HF N                                       | 0.2                                  |  |  |  |  |
|-----------|--|--------------------------------------|--|--|--|--|
| BOT CHORD | 2x4 HF N                                       | 0.2                                  |  |  |  |  |
| WEBS      | 2x4 HF N                                       | 0.2                                  |  |  |  |  |
| BRACING   |  |                                      |  |  |  |  |
| TOP CHORD | Structura                                      | l wood sheathing directly applied or |  |  |  |  |
|           | 3-3-7 oc j                                     | ourlins.                             |  |  |  |  |
| BOT CHORD | RD Rigid ceiling directly applied or 10-0-0 oc |                                      |  |  |  |  |
|           | bracing.                                       |                                      |  |  |  |  |
| REACTIONS | (size)   | 2=0-3-8, 6=0-3-8                     |  |  |  |  |
|           | Max Horiz                                      | 2=-73 (LC 13)                        |  |  |  |  |
|           | Max Uplift                                     | 2=-43 (LC 12), 6=-43 (LC 13)         |  |  |  |  |
|           | Max Grav                                       | 2=1296 (LC 2), 6=1296 (LC 2)         |  |  |  |  |
| FORCES    | (lb) - Max                                     | imum Compression/Maximum             |  |  |  |  |
|           | Tension  |                                      |  |  |  |  |
| TOP CHORD | 1-2=0/34,                                      | 2-3=-2098/105, 3-4=-1895/116,        |  |  |  |  |
|           | 4-5=-189                                       | 5/116, 5-6=-2098/105, 6-7=0/34       |  |  |  |  |
| BOT CHORD | 2-10=-66/                                      | /1812, 8-10=0/1205, 6-8=-39/1812     |  |  |  |  |

39/1812 4-8=-29/764, 5-8=-462/138, 4-10=-29/764, WFBS 3-10=-462/138 NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=110mph (3-second gust) 2) 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 11-10-4, Exterior(2R) 11-10-4 to 14-10-4, Interior (1) 14-10-4 to 24-8-8 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 3)
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* 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.

- 5) All bearings are assumed to be HF No.2 crushing
  - capacity of 405 psi.
- Provide mechanical connection (by others) of truss to 6) bearing plate capable of withstanding 43 lb uplift at joint 2 and 43 lb uplift at joint 6.
- This truss is designed in accordance with the 2018 7) International Building Code section 2306.1 and
- referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



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

| Job                                | Truss                       | Truss Type     Qt       Common Supported Gable     4 |         | Ply | MKM LEGACY EAST TOWN CROSSING B | LD G      |
|------------------------------------|-----------------------------|--|---------|-----|---------------------------------|-----------|
| 3907862                            | A02                         |  |         | 1   | Job Reference (optional)        | R81482206 |
| Builders FirstSource (Arlington, V | VA), Arlington, WA - 98223, | Run: 8.63 S Nov 1 20                                 | Page: 1 |     |                                 |           |

Run: 8,63 S Nov 1 2023 Print: 8,630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 25 09:36:45 ID:NNRHEaOjJBvWWStnsSqlZqzZ3bK-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f PRMU20240404

#### -1-0-0 1-0-0 24-8-8 11-10-4 23-8-8 1-0-0 11-10-4 11-10-4 4x5 ≠ 8 7 9 1<u>2</u> 6 [ 6 10 5 11 6-3-5 6-9-1 4 12 3 13 14 2 0-4-3 15 26 25 24 23 22 21 20 19 17 16 18 3x4 = 3x4 = 5x6 =

| 23-8-8 |  |
|--------|--|
|--------|--|

Scale = 1:47

Plate Offsets (X, Y): [20:0-3-0,0-3-0]

| Loading                                  |   | (psf)   | Spacing  | 2-0-0  |  | CSI  |   | DEFL  | in  | (loc)   | l/defl                              | L/d                           | PLATES   | GRIP   |   |
|--|---|---|--|--|--|--|---|---|---|---|-------------------------------------|-------------------------------|--|--|---|
| TCLL (roof)                              |   | 25.0  | Plate Grip DOL   | 1.15   |  | тс   | 0.08  | Vert(LL)  | n/a   | -   | n/a                                 | 999                           | MT20   | 185/148  |   |
| TCDL                                     |   | 15.0  | Lumber DOL   | 1.15   |  | BC   | 0.03  | Vert(CT)  | n/a   | -   | n/a                                 | 999                           |  |  |   |
| BCLL                                     |   | 0.0*  | Rep Stress Incr  | YES  |  | WB   | 0.09  | Horz(CT)  | 0.00  | 14  | n/a                                 | n/a                           |  |  |   |
| BCDI                                     |   | 10.0  | Code   | IBC201   | 8/TPI2014  | Matrix-SH  |   | ()  |   |   |                                     |                               | Weight <sup>,</sup> 100 lb                                     | FT = 10%   |   |
| BODE                                     |   | 10.0  | 0000   | 10020  | 0/11/12/0111   | Maank Off  |   |   | -   |   |                                     |                               | Wolght. Too lb   | 11 - 1070  | — |
| L <b>UMBER</b><br>TOP CHORD<br>BOT CHORD | 2x4 HF N<br>2x4 HF N  | o.2<br>o.2  |  | В  | OT CHORD   | 2-26=-34/78, 25-26=<br>23-24=-34/78, 22-23<br>19-21=-35/79, 18-19  | =-34/78<br>3=-34/7<br>9=-35/7   | 6, 24-25=-34/7<br>8, 21-22=-34/<br>9, 17-18=-35/  | '8,<br>'78,<br>'79,                                   | 10) Pro-<br>bea<br>2, 2   | vide meo<br>ring plat<br>5 lb uplif | chanica<br>e capa<br>t at joi | al connection (by<br>ble of withstandir<br>nt 20, 26 lb uplift | others) of truss to<br>g 11 lb uplift at joint<br>at joint 22, 25 lb | : |
| OTHERS                                   | 2x4 HF N  | 0.2   |  |  |  | 16-17=-35/79, 14-16  | 3=-35/7   | 9   |   | upli  | It at joint                         | 23, 24                        | I b uplift at joint 2  | 4, 26 lb uplift at join  | t |
| BRACING                                  |   |   |  | V  | /EBS   | 8-21=-138/16, 7-22=  | =-172/5   | 5, 6-23=-158/   | '57,  | 25,   | 21 lb up                            | lift at jo                    | oint 26, 27 lb uplif   | t at joint 19, 24 lb   |   |
| TOP CHORD                                | Structura   | I wood shea   | athing directly applied  | d or   |  | 5-24=-160/55, 4-25=  | =-162/5   | 7, 3-26=-149/   | 63,   | upin  | it at joint                         | 18, 26                        | b uplift at joint 1  | 7, 20 lb uplift at joint   | t |
|  | 6-0-0 oc  | ourlins.  |  |  |  | 9-20=-174/55, 10-19  | 9=-159  | 57,   |   | 108   | and 1 ID                            | uplint a                      | t joint 14.  |  |   |
| BOT CHORD                                | Rigid ceil<br>bracing.  | Structural wood sheating directly applied of 0-0 oc purlins.         NOTES           Rigid ceiling directly applied or 10-0-0 oc bracing.         17=23-8-8, 14=23-8-8, 16=23-8-8, 19=23-8-8, 20=23-8-8, 21=23-8-8, 22=23-8-8, 20=23-8-8, 21=23-8 |  |  |  | 11-18=-160/55, 12-1<br>13-16=-149/63   | 17=-16  | 2/57,   |   | 11) This truss is designed in accordance with the 2018<br>International Building Code section 2306.1 and<br>referenced standard ANSI/TPI 1. |                                     |                               |  |  |   |
| REACTIONS                                | (size)<br>Max Horiz<br>Max Uplift<br>Max Grav                                       | 2=23-8-8,<br>17=23-8-8<br>20=23-8-8<br>23=23-8-8<br>26=23-8-8<br>2=-73 (LC<br>2=-11 (LC<br>(LC 13), 1<br>(LC 13), 2<br>(LC 12), 2<br>(LC 12), 2<br>(LC 12), 2<br>2=187 (LC<br>16=183 (L<br>20=214 (L<br>22=211 (L<br>24=199 (L<br>24=199 (L<br>26=183 (L  | $\begin{array}{c} 14=23-8-8, \ 16=23-8, \\ 18=23-8-8, \ 19=23-4, \\ 21=23-8-8, \ 22=23-4, \\ 21=23-8-8, \ 22=23-4, \\ 38), \ 14=-1 \ (LC \ 9), \ 16 \ 7=-26 \ (LC \ 13), \ 18=-2 \ 9=-27 \ (LC \ 13), \ 20=-2 \ 2=-26 \ (LC \ 12), \ 23=-2 \ 4=-24 \ (LC \ 12), \ 23=-2 \ 4=-24 \ (LC \ 12), \ 25=-2 \ 6=-21 \ (LC \ 12), \ 25=-20 \ (LC \ 12), \ 25$ | -8, 1<br>8-8, 1<br>8-8, 2<br>=-20<br>24<br>25<br>25<br>26<br>3<br>), .<br>), 4<br>), 4<br>), 5<br>(1), 6 | <ul> <li>Unbalanced<br/>this design.</li> <li>Wind: ASCE<br/>Vasd=87mpl<br/>II; Exp B; En<br/>and C-C Con<br/>1-10-4 to 11.</li> <li>Exterior(2N)<br/>right expose<br/>for members<br/>Lumber DOI</li> <li>Truss desig<br/>only. For stt<br/>see Standar<br/>or consult qu</li> <li>All plates are<br/>Gable requir</li> <li>Gable requir</li> </ul> | roof live loads have<br>7-16; Vult=110mph<br>n; TCDL=4.2psf; BC<br>closed; MWFRS (er<br>ner(3E) -1-0-0 to 1-<br>10-4, Corner(3R) 1<br>14-10-4 to 24-8-8 z<br>d; end vertical left a<br>and forces & MWF<br>.=1.60 plate grip DC<br>ned for wind loads i<br>uds exposed to winc<br>d Industry Gable En<br>ualified building desi<br>e 2x4 MT20 unless o<br>es continuous botto<br>spaced at 2-0-0 oc. | been of<br>CDL=6.0<br>Nvelope<br>10-4, E<br>1-10-4<br>one; ca<br>and righ<br>RS for<br>DL=1.60<br>n the p<br>I (norm<br>id Deta<br>gner as<br>otherwi<br>m chor | considered for<br>ond gust)<br>)psf; h=25ft; C<br>) exterior zon<br>ixterior(2N)<br>to 14-10-4,<br>intilever left ai<br>tt exposed;C-(C<br>reactions shor<br>)<br>ane of the tru-<br>al to the face)<br>ils as applicab<br>s per ANSI/TP<br>se indicated.<br>d bearing. | cat.<br>e<br>nd<br>C<br>wm;<br>ss<br>,<br>sle,<br>21. | LOAD  | (ASE(S)                             | Star                          | ndard  | S ZHAO<br>SHING  |   |
| FORCES                                   | (lb) - Max<br>Tension<br>1-2=0/34<br>4-5=-65/5<br>7-8=-75/1<br>10-11=-4<br>13-14=-6 | 2-3=-95/40<br>5-3=-95/40<br>5-6=-55/<br>33, 8-9=-75<br>8/66, 11-12<br>8/28, 14-15   | pression/Maximum<br>), 3-4=-80/48,<br>(73, 6-7=-56/101,<br>5/133, 9-10=-54/99,<br>=-48/34, 12-13=-53/3<br>=0/34  | 7<br>8<br>30, 9  | <ul> <li>This truss ha<br/>chord live loa</li> <li>* This truss h<br/>on the bottor<br/>3-06-00 tall h<br/>chord and ai</li> <li>All bearings<br/>capacity of 4</li> </ul>   | is been designed fo<br>ad nonconcurrent w<br>has been designed f<br>in chord in all areas<br>by 2-00-00 wide will<br>by other members.<br>are assumed to be<br>05 psi.   | r a 10.0<br>ith any<br>for a liv<br>where<br>fit betv<br>HF No.   | ) psf bottom<br>other live load<br>e load of 20.0<br>a rectangle<br>veen the botto<br>2 crushing  | ds.<br>psf<br>om                                      |   |                                     |                               | PROPESSIONA  | A BED ONOT   |   |

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)

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

-----March 26,2024

| Job     | Truss | Truss Type             | Qty | Ply | MKM LEGACY EAST TOWN CROSSING BLD G   |
|---------|-------|------------------------|-----|-----|---------------------------------------|
| 3907862 | B01   | Common Supported Gable | 4   | 1   | R81482207<br>Job Reference (optional) |

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Scale = 1:33.8

| Loading<br>TCLL (roof)<br>TCDL<br>BCLL<br>BCDL   | (psf)<br>25.0<br>15.0<br>0.0*<br>10.0  | Spacing2Plate Grip DOL1Lumber DOL1Rep Stress IncrYCodeIE   | -0-0<br>.15<br>.15<br>ES<br>3C2018/TPI2014  | <b>CSI</b><br>TC<br>BC<br>WB<br>Matrix-SH   | 0.08<br>0.03<br>0.03   | DEFL<br>Vert(LL)<br>Vert(CT)<br>Horz(CT)  | in<br>n/a<br>n/a<br>0.00  | (loc)<br>-<br>-<br>8 | l/defl<br>n/a<br>n/a<br>n/a | L/d<br>999<br>999<br>n/a | PLATES<br>MT20<br>Weight: 44 lb | <b>GRIP</b><br>185/148<br>FT = 10% |
|--|--|--|---|---|--|---|---|----------------------|-----------------------------|--------------------------|---------------------------------|------------------------------------|
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>OTHERS<br>BRACING<br>TOP CHORD<br>BOT CHORD<br>REACTIONS | 2x4 HF No.2<br>2x4 HF No.2<br>2x4 HF No.2<br>Structural wood she<br>6-0-0 oc purlins.<br>Rigid ceiling directly<br>bracing.<br>(size) 2=11-5-0,<br>11=11-5-(<br>14=11-5-(<br>Max Horiz 2=75 (LC<br>Max Uplift 2=-8 (LC<br>(LC 13), 1<br>(LC 12), 1<br>Max Grav 2=188 (LC<br>10=169 (L<br>12=157 (L<br>14=169 (L) | athing directly applied or<br>applied or 10-0-0 oc<br>8=11-5-0, 10=11-5-0,<br>0, 12=11-5-0, 13=11-5-0<br>11)<br>13), 8=-6 (LC 13), 10=-2<br>11=-40 (LC 13), 13=-40<br>4=-28 (LC 12)<br>C 1), 8=188 (LC 1),<br>C 1), 11=219 (LC 26),<br>C 1), 13=219 (LC 25),<br>C 1) | <ol> <li>Wind: ASCE<br/>Vasd=87mpl<br/>II; Exp B; En<br/>and C-C Cor<br/>to 5-8-8, Cor<br/>12-5-0 zone;<br/>vertical left a<br/>forces &amp; MW<br/>DOL=1.60 pl</li> <li>Truss desig<br/>only. For stu-<br/>or consult qu</li> <li>All plates are<br/>5 Gable requir<br/>6 Gable studs<br/>7 This truss h<br/>on the bottor<br/>3-06-00 tail b</li> </ol> | 7-16; Vult=110mp<br>n; TCDL=4.2psf; Bi<br>closed; MWFRS (e<br>ner(3E) -1-0-0 to 1<br>ner(3R) 5-8-8 to 8-<br>cantilever left and<br>nd right exposed; C<br>FRS for reactions<br>ate grip DOL=1.60<br>ned for wind loads<br>ids exposed to win<br>d Industry Gable Ei<br>alified building des<br>2 x4 MT20 unless<br>es continuous botto<br>spaced at 2-0-0 oc<br>s been designed<br>fad nonconcurrent v<br>nas been designed<br>n chord in all areas<br>y 2-00-00 wide wil | h (3-sec<br>CDL=6.0<br>nvelope<br>-8-8, Ex<br>8-8, Ex<br>right ex<br>c-C for n<br>shown;<br>in the pi<br>d (norm<br>nd Deta<br>igner as<br>otherwi<br>for a 10.0<br>vith any<br>for a liv<br>s where<br>l fit betw | ond gust)<br>Dpsf; h=25ft; (<br>) exterior zon<br>terior(2N) 1-8<br>erior(2N) 8-8-<br>ierior(2N) 8-8-<br>ierior(2N) 8-8-<br>posed ; end<br>hembers and<br>Lumber<br>ane of the tru<br>al to the face)<br>ils as applicat<br>s per ANSI/TF<br>se indicated.<br>d bearing.<br>D psf bottom<br>other live load<br>e load of 20.0<br>a rectangle<br>veen the bottom | Cat.<br>e<br>-8<br>8 to<br>ss<br>,<br>ole,<br>vl 1.<br>ds.<br>psf |                      |                             |                          |                                 |                                    |
| FORCES<br>TOP CHORD  | (lb) - Maximum Com<br>Tension<br>1-2=0/42, 2-3=-87/5<br>4-5=-76/98, 5-6=-72  | pression/Maximum<br>4, 3-4=-80/46,<br>/98, 6-7=-64/39,   | chord and ar<br>9) All bearings<br>capacity of 4<br>10) Provide mec   | are assumed to be<br>05 psi.<br>hanical connection  | HF No.   | 2 crushing<br>ers) of truss to  | )   |                      |                             |                          |                                 |                                    |
| BOT CHORD<br>WEBS<br>NOTES   | 7-8=-69/28, 8-9=0/4<br>2-14=-27/80, 13-14=<br>11-12=-27/80, 10-11<br>5-12=-118/2, 4-13=-<br>6-11=-176/90, 7-10=  | 2<br>27/80, 12-13=-27/80,<br> =-27/80, 8-10=-27/80<br>176/91, 3-14=-140/80,<br>140/80  | 2, 6 lb uplift<br>2, 6 lb uplift<br>at joint 14, 4<br>10.<br>11) This truss is<br>International   | e capable of withsta<br>at joint 8, 40 lb upli<br>D lb uplift at joint 1<br>designed in accord<br>Building Code sec   | anding 8<br>It at join<br>and 27<br>Iance w  | t 13, 28 lb uplift at joi<br>t 13, 28 lb upl<br>lb uplift at joi<br>th the 2018<br>16.1 and   | nt<br>ift<br>nt   |                      |                             | ž                        | TLAOMIN<br>TLAOF WA             | G ZHAO                             |

1) Unbalanced roof live loads have been considered for this design.

referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



Roseville, CA 95661 916.755.3571 / MiTek-US.com

| Job     | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING BLD G   |
|---------|-------|------------|-----|-----|---------------------------------------|
| 3907862 | B02   | Common     | 8   | 1   | R81482208<br>Job Reference (optional) |

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| Scale = | 1:35.4 |
|---------|--------|
|---------|--------|

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

| Loading  | (psf)                     | Spacing                  | 2-0-0                       | csi                  |            | DEFL           | in    | (loc) | l/defl | L/d | PLATES        | GRIP     |
|--|---------------------------|--------------------------|-----------------------------|----------------------|------------|----------------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof)  | 25.0                      | Plate Grip DOL           | 1.15                        | TC                   | 0.47       | Vert(LL)       | -0.03 | 4-6   | >999   | 240 | MT20          | 185/148  |
| TCDL   | 15.0                      | Lumber DOL               | 1.15                        | BC                   | 0.33       | Vert(CT)       | -0.07 | 4-6   | >999   | 180 |               |          |
| BCLL   | 0.0*                      | Rep Stress Incr          | YES                         | WB                   | 0.05       | Horz(CT)       | 0.01  | 4     | n/a    | n/a |               |          |
| BCDL   | 10.0                      | Code                     | IBC2018/TPI2014             | Matrix-SH            |            |                |       |       |        |     | Weight: 37 lb | FT = 10% |
| LUMBER   |                           |                          | 5) All bearing              | s are assumed to b   | e HF No.   | 2 crushing     |       |       |        |     |               |          |
| TOP CHORD  | 2x4 HF No.2               |                          | capacity o                  | f 405 psi.           |            |                |       |       |        |     |               |          |
| BOT CHORD  | 2x4 HF No.2               |                          | <ol><li>Provide m</li></ol> | echanical connection | on (by oth | ers) of truss  | to    |       |        |     |               |          |
| WEBS   | 2x4 HF No.2               |                          | bearing pl                  | ate capable of withs | standing 2 | 6 lb uplift at | joint |       |        |     |               |          |
| BRACING  |                           |                          | 2 and 26 l                  | b uplift at joint 4. |            |                |       |       |        |     |               |          |
| TOP CHORD  | Structural wood she       | athing directly applie   | ed or 7) This truss         | is designed in acco  | ordance w  | ith the 2018   |       |       |        |     |               |          |
|  | 5-9-0 oc purlins.         |                          | Internation                 | al Building Code se  | ection 230 | 6.1 and        |       |       |        |     |               |          |
| BOT CHORD  | Rigid ceiling directly    | applied or 10-0-0 or     |                             |                      | 11.        |                |       |       |        |     |               |          |
|  | bracing.                  |                          | LUAD CASE(                  | 5) Standard          |            |                |       |       |        |     |               |          |
| REACTIONS  | (size) 2=0-3-8, 4         | 1=0-3-8                  |                             |                      |            |                |       |       |        |     |               |          |
|  | Max Horiz 2=-75 (LC       | ; 10)                    |                             |                      |            |                |       |       |        |     |               |          |
|  | Max Uplift 2=-26 (LC      | : 12), 4=-26 (LC 13)     |                             |                      |            |                |       |       |        |     |               |          |
|  | Max Grav 2=648 (LC        | C 1), 4=648 (LC 1)       |                             |                      |            |                |       |       |        |     |               |          |
| FORCES   | (lb) - Maximum Com        | pression/Maximum         |                             |                      |            |                |       |       |        |     |               |          |
|  | Tension                   |                          |                             |                      |            |                |       |       |        |     |               |          |
| TOP CHORD  | 1-2=0/43, 2-3=-679/6      | 63, 3-4=-679/63,         |                             |                      |            |                |       |       |        |     |               |          |
|  | 4-5=0/43                  | -                        |                             |                      |            |                |       |       |        |     |               |          |
| BOICHORD   | 2-6=0/452, 4-6=0/45       | 2                        |                             |                      |            |                |       |       |        |     |               |          |
| WEBS   | 3-6=0/276                 |                          |                             |                      |            |                |       |       |        |     |               |          |
| NOTES  |                           |                          |                             |                      |            |                |       |       |        |     |               |          |
| <ol> <li>Unbalance</li> <li>this design</li> </ol> | ed roof live loads have   | been considered for      | ſ                           |                      |            |                |       |       |        |     |               |          |
| 2) Wind AS   | <br>CE 7-16: Vult=110mph  | (3-second qust)          |                             |                      |            |                |       |       |        |     |               |          |
| Vasd=87r   | nph: TCDL=4.2psf: BC      | DL=6.0psf: h=25ft: (     | Cat.                        |                      |            |                |       |       |        |     |               |          |
| II; Exp B;   | Enclosed; MWFRS (en       | velope) exterior zon     | e                           |                      |            |                |       |       |        |     | OMIN          | GZH      |
| and C-C E  | Exterior(2E) -1-0-0 to 2- | -0-0, Interior (1) 2-0-  | 0 to                        |                      |            |                |       |       |        |     | ALA WI        | A A      |
| 5-8-8, Ext   | terior(2R) 5-8-8 to 8-8-8 | 3, Interior (1) 8-8-8 to | )                           |                      |            |                |       |       |        | 7   | THE WE        | SHIN     |
| 12-5-0 zo  | ne; cantilever left and r | ight exposed ; end       |                             |                      |            |                |       |       |        | 5   | 15º X         |          |
| vertical let                                       | ft and right exposed;C-   | C for members and        |                             |                      |            |                |       |       |        | 5   |               |          |
| forces & N   | MWFRS for reactions sl    | hown; Lumber             |                             |                      |            |                |       |       |        |     |               |          |
| DOL=1.60   | 0 plate grip DOL=1.60     |                          |                             |                      |            |                |       |       |        |     |               |          |
| <ol><li>This truss</li></ol>                       | has been designed for     | a 10.0 psf bottom        |                             |                      |            |                |       |       |        |     | 1.1.1         |          |

3) chord live load nonconcurrent with any other live loads.

\* This truss has been designed for a live load of 20.0psf 4) 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.

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ESSIONAL ENGI

----March 26,2024

| Job     | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING BLD G   |
|---------|-------|------------|-----|-----|---------------------------------------|
| 3907862 | C01   | Common     | 16  | 1   | R81482209<br>Job Reference (optional) |

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| L     | 7-6-10 | 14-8-6 | 22-3-0 |   |
|-------|--------|--------|--------|---|
| Γ     | 7-6-10 | 7-1-12 | 7-6-10 | Т |
| :57.5 |        |        |        |   |
|       |        |        |        |   |

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

Scale =

| Loading<br>TCLL (roof)<br>TCDL<br>BCLL   |  | (psf)<br>25.0<br>15.0<br>0.0*   | <b>Spacing</b><br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr  | 2-0-0<br>1.15<br>1.15<br>YES     |  | CSI<br>TC<br>BC<br>WB  | 0.47<br>0.63<br>0.14                          | <b>DEFL</b><br>Vert(LL)<br>Vert(CT)<br>Horz(CT)                             | in<br>-0.11<br>-0.20<br>0.04 | (loc)<br>8-10<br>2-10<br>6 | l/defl<br>>999<br>>999<br>n/a | L/d<br>240<br>180<br>n/a | PLATES<br>MT20 | <b>GRIP</b><br>185/148 |
|--|--|---|--|----------------------------------|--|--|---|---|------------------------------|----------------------------|-------------------------------|--------------------------|----------------|------------------------|
| BCDL   |  | 10.0  | Code   | IBC2018                          | /1912014   | Matrix-SH  |   |   |                              |                            |                               |                          | weight: 88 lb  | FT = 10%               |
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>BRACING<br>TOP CHORD<br>BOT CHORD                    | 2x4 HF No.2<br>2x4 HF No.2<br>2x4 HF No.2<br>Structural wo<br>3-11-2 oc pur<br>Rigid ceiling d<br>bracing.                         | ood shea<br>rlins.<br>directly a  | thing directly applied<br>applied or 10-0-0 oc   | 5)<br>6)<br>I or 7)<br><b>LO</b> | All bearings a<br>capacity of 40<br>Provide mech<br>bearing plate<br>2 and 35 lb u<br>This truss is of<br>International<br>referenced st<br>AD CASE(S) | are assumed to be l<br>b5 psi.<br>nanical connection<br>capable of withstar<br>plift at joint 6.<br>Jesigned in accorda<br>Building Code sect<br>andard ANSI/TPI 1<br>Standard | HF No.<br>(by othending 3<br>ance wittion 230 | 2 crushing<br>ers) of truss t<br>5 lb uplift at j<br>th the 2018<br>6.1 and | to<br>joint                  |                            |                               |                          |                |                        |
| REACTIONS  | (size) 2=<br>Max Horiz 2=<br>Max Uplift 2=<br>Max Grav 2=  | 0-3-8, 6<br>136 (LC<br>-35 (LC<br>1260 (L                                 | =0-3-8<br>11)<br>12), 6=-35 (LC 13)<br>C 19), 6=1260 (LC 20  | D)                               |  |  |   |   |                              |                            |                               |                          |                |                        |
| FORCES   | (lb) - Maximu  | im Comp   | pression/Maximum   |                                  |  |  |   |   |                              |                            |                               |                          |                |                        |
| TOP CHORD  | Tension<br>1-2=0/43, 2-3<br>4-5=-1517/90   | 3=-1652/<br>), 5-6=-1   | /46, 3-4=-1517/90,<br>652/46, 6-7=0/43   |                                  |  |  |   |   |                              |                            |                               |                          |                |                        |
| BOT CHORD<br>WEBS  | 2-10=-53/139<br>4-8=-53/726,<br>3-10=-403/14   | 91, 8-10=<br>5-8=-40<br>18  | =0/910, 6-8=0/1303<br>)3/148, 4-10=-53/726   | ,                                |  |  |   |   |                              |                            |                               |                          |                |                        |
| NOTES  |  |   |  |                                  |  |  |   |   |                              |                            |                               |                          |                |                        |
| <ol> <li>Unbalance<br/>this design</li> <li>Wind: ASC</li> </ol>                                 | ed roof live load<br>n.<br>CE 7-16: Vult=1   | ls have l   | ceen considered for  |                                  |  |  |   |   |                              |                            |                               |                          |                | aa.                    |
| Vasd=87m<br>II; Exp B; I<br>and C-C E<br>11-1-8, Ex<br>to 23-3-0 z<br>vertical lef<br>forces & M | hph; TCDL=4.2<br>Enclosed; MWF<br>Exterior(2E) -1-0<br>tterior(2R) 11-1-<br>zone; cantilever<br>t and right expo<br>MWERS for reac | psf; BCI<br>FRS (env<br>)-0 to 2-1<br>-8 to 14-<br>r left and<br>osed;C-0 | DL=6.0psf; h=25ft; Ca<br>velope) exterior zone<br>0-0, Interior (1) 2-0-0<br>1-8, Interior (1) 14-1<br>I right exposed ; end<br>C for members and<br>own: Lumber | at.<br>to<br>-8                  |  |  |   |   |                              |                            |                               | 4                        | TANOMING WA    | ST ZHAO                |
| DOL=1.60<br>3) This truss<br>chord live  | ) plate grip DOL<br>has been desig<br>load nonconcu  | =1.60<br>gned for<br>rrent wit  | a 10.0 psf bottom<br>h anv other live loads  | s.                               |  |  |   |   |                              |                            |                               | 4.                       | P 540          | 14 0 2                 |
| <ul> <li>4) * This trus<br/>on the bott<br/>3-06-00 ta</li> </ul>                                | s has been des<br>tom chord in all<br>Ill by 2-00-00 wi  | signed fo<br>l areas v<br>ide will f                                      | r a live load of 20.0p<br>where a rectangle<br>it between the botton   | sf                               |  |  |   |   |                              |                            |                               | -                        | FESSIONA       | LENGING                |

\* This truss has been designed for a live load of 20.0psf 4) 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.

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March 26,2024

| Job     | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING BLD G   |
|---------|-------|------------|-----|-----|---------------------------------------|
| 3907862 | C02   | Common     | 4   | 1   | R81482210<br>Job Reference (optional) |

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22-3-0

| Scale = 1:53.3   |              |                         |  |                   |                 |                     |                           |                                |             |       |        |            |                |          |          |
|------------------|--------------|-------------------------|--|-------------------|-----------------|---------------------|---------------------------|--------------------------------|-------------|-------|--------|------------|----------------|----------|----------|
| oading           |              | (nef)                   | Spacing  | 2-0-0             |                 | <b>C</b> SI         |                           | DEEL                           | in          | (loc) | l/def! | L/d        |                | CRIP     |          |
|                  |              | (psi)<br>25.0           |  | 1 15              |                 |                     | 0.11                      | Vort(LL)                       | n/a         | (100) | n/a    | 000        | MT20           | 185/1/8  |          |
|                  |              | 15.0                    |  | 1.15              |                 | BC                  | 0.06                      | Vert(CT)                       | n/a         |       | n/a    | 000        | 101120         | 103/140  |          |
| RCLI             |              | 0.0*                    | Ren Stress Incr                                  | VES               |                 | WB                  | 0.00                      | Horz(CT)                       | 0.00        | 12    | n/a    | 999<br>n/a |                |          |          |
|                  |              | 10.0                    | Code   | IBC2018           | /TPI2014        | Matrix-SH           | 0.10                      | 11012(01)                      | 0.00        | 12    | n/a    | n/a        | Weight: 105 lb | FT = 10% |          |
|                  |              | 10.0                    | 0000   | 1002010           |                 | Matrix Off          | -                         |                                |             |       |        |            | Wolght. Too lo | 11 - 10% |          |
| UMBER            |              |                         |  | 1)                | Unbalanced      | roof live loads ha  | ve been o                 | considered fo                  | r           |       |        |            |                |          |          |
| OP CHORD         | 2x4 HF No    | 0.2                     |  | •                 | this design.    | 7 40 34 14 440      |                           |                                |             |       |        |            |                |          |          |
| SOT CHORD        | 2x4 HF No    | 0.2                     |  | 2)                | Wind: ASCE      | 7-16; Vult=110m     | iph (3-sec                | cond gust)                     | Cat         |       |        |            |                |          |          |
| JIHERS           | 2x4 HF NO    | 0.2                     |  |                   |                 | closed: MWERS       | OCDL=0.                   | $p_{SI}$ , $n=2511$ , $v_{SI}$ | oal.        |       |        |            |                |          |          |
| 3RACING          | o            |                         |  |                   | and C-C Cor     | ner(3F) -1-0-0 to   | 2-0-0 Ex                  | terior(2N) 2-0                 | )-0         |       |        |            |                |          |          |
| OP CHORD         | 6-0-0 oc p   | wood shea<br>urlins     | athing directly applied                          | or                | to 11-1-8, Co   | orner(3R) 11-1-8    | to 14-1-8,                | Exterior(2N)                   |             |       |        |            |                |          |          |
| 3OT CHORD        | Rigid ceilir | na directly             | applied or 10-0-0 oc                             |                   | 14-1-8 to 23-   | 3-0 zone; cantile   | ver left ar               | nd right expos                 | sed ;       |       |        |            |                |          |          |
|                  | bracing.     |                         |  |                   | end vertical I  | eft and right expo  | osed;C-C                  | for members                    | and         |       |        |            |                |          |          |
| REACTIONS        | (size)       | 2=22-3-0,               | 12=22-3-0, 14=22-3-0                             | ),                | forces & MW     | FRS for reaction    | s shown;                  | Lumber                         |             |       |        |            |                |          |          |
|                  |              | 15=22-3-0               | ), 16=22-3-0, 18=22-3-                           | -0, 3)            | Truss design    | ale grip DOL=1.0    | s in the n                | lane of the tru                | 199         |       |        |            |                |          |          |
|                  |              | 19=22-3-0               | ), 20=22-3-0, 21=22-3-                           | -0, 0)            | only For stu    | ids exposed to w    | ind (norm                 | al to the face                 | )           |       |        |            |                |          |          |
|                  |              | 22=22-3-0               | 0, 23=22-3-0                                     |                   | see Standard    | d Industry Gable    | End Deta                  | ils as applical                | ble.        |       |        |            |                |          |          |
|                  | Max Horiz    | 2=136 (LC               |  |                   | or consult qu   | alified building de | esigner a                 | s per ANSI/TF                  | PI 1.       |       |        |            |                |          |          |
|                  | Max Uplift   | 2=-12 (LU               | (8), 14=-51 (LU 13),                             | 4)                | All plates are  | 2x4 MT20 unles      | s otherwi                 | se indicated.                  |             |       |        |            |                |          |          |
|                  |              | 18=-34 (L)              | C 13), 10=-35 (LC 13),<br>C 13), 20=-35 (LC 12), | ' 5)              | Gable require   | es continuous bo    | ttom chor                 | d bearing.                     |             |       |        |            |                |          |          |
|                  |              | 21=-37 (1)              | C(12), 20=30 (LC(12))<br>C(12), 22=-30 (LC(12))  | ' 6)              | Gable studs     | spaced at 2-0-0 o   | DC.                       |                                |             |       |        |            |                |          |          |
|                  |              | 23=-51 (L               | C 12)  | ' 7)              | This truss ha   | s been designed     | for a 10.0                | ) psf bottom                   |             |       |        |            |                |          |          |
|                  | Max Grav     | 2=237 (LC               | C 1), 12=237 (LC 1),                             | 0)                | * This trues h  | ad nonconcurrent    | with any                  | other live loa                 | ds.<br>Doof |       |        |            |                |          |          |
|                  |              | 14=295 (L               | C 26), 15=167 (LC 26                             | i), <sup>o)</sup> | on the bottor   | n chord in all are  | a ivi a iv                | e load of 20.0                 | Jpsi        |       |        |            |                |          |          |
|                  |              | 16=207 (L               | C 1), 18=209 (LC 26),                            |                   | 3-06-00 tall h  | v 2-00-00 wide v    | as where<br>vill fit betv | a rectangle                    | nm          |       |        |            |                |          |          |
|                  |              | 19=190 (L               | -C 22), 20=209 (LC 25                            | ),                | chord and ar    | v other members     | 5.                        |                                | 5111        |       |        |            |                |          |          |
|                  |              | 21=207 (L               | -C 1), 22=167 (LC 25),                           | 9)                | All bearings    | are assumed to b    | e HF No.                  | 2 crushing                     |             |       |        |            | _              |          |          |
|                  | (IL) M       | 23=295 (L               | .U 25)   | ,                 | capacity of 4   | 05 psi.             |                           | 5                              |             |       |        |            |                | AL.      |          |
| ORCES            | (ID) - Maxir | mum Com                 | pression/iviaximum                               | 10)               | ) Provide mec   | hanical connection  | on (by oth                | ers) of truss t                | 0           |       |        |            | OMIN           | G Zn     |          |
|                  | 1-2-0/42     | 2-3143/1                | 112 3-4118/75                                    |                   | bearing plate   | capable of withs    | standing 1                | 2 lb uplift at j               | oint        |       |        |            | JA             | -MA      |          |
|                  | 4-5=-100/7   | 75. 5-6=-93             | 3/101. 6-7=-96/136.                              |                   | 2, 35 lb uplift | at joint 20, 37 lb  | uplift at jo              | Dint 21, 30 lb                 |             |       |        |            | FWA            | SHIN     | 1        |
|                  | 7-8=-96/13   | 36. 8-9=-72             | 2/96. 9-10=-65/52.                               |                   |                 | 22, 51 ID UPIIT AT  | JOINT 23, v               | isint 15 and 6                 | Joint       |       |        | 7          | 58 27          | S CA     | -        |
|                  | 10-11=-81    | /26, 11-12              | =-117/73, 12-13=0/42                             |                   | unlift at joint | 14 10 10 10, 30 1   | o upint at                | joint 15 and 5                 | מווכ        |       |        | 7          |                | <u> </u> | -        |
| <b>3OT CHORD</b> | 2-23=-52/1   | 101, 22-23              | =-52/101,  | 11                | This truss is   | designed in acco    | rdance w                  | ith the 2018                   |             |       |        |            |                | 77       |          |
|                  | 21-22=-52    | /101, 20-2              | 1=-52/101,                                       | ,                 | International   | Building Code se    | ection 230                | 6.1 and                        |             |       |        |            |                |          |          |
|                  | 19-20=-52    | /101, 18-1              | 9=-52/101,                                       |                   | referenced s    | tandard ANSI/TP     | 11.                       |                                |             |       |        |            |                |          |          |
|                  | 16-18=-52    | /101, 15-1              | 6 = -52/101,<br>4 = 52/101                       | LO                | AD CASE(S)      | Standard            |                           |                                |             |       |        | - 2        | 7 540          | 74 0 5   | ~        |
| WEBS             | 7-10-140     | /101, 12-1              | 4=-02/101<br>-170/50 5-21-164/60                 | >                 |                 |                     |                           |                                |             |       |        |            | GIST           | EREV     | <u> </u> |
| VEB3             | 4-22138      | /43, 0-20=<br>/52 3-23- | -224/81 8-18-170/57                              | <u>~</u> ,<br>7   |                 |                     |                           |                                |             |       |        |            | CSSIC.         | ENGL     |          |
|                  | 9-16=-164    | /62, 10-15              | =-138/52, 11-14=-224                             | ,<br>/81          |                 |                     |                           |                                |             |       |        |            | NA             | LEI      |          |
| NOTES            |              | ,                       | ,  |                   |                 |                     |                           |                                |             |       |        |            |                |          |          |
|                  |              |                         |  |                   |                 |                     |                           |                                |             |       |        |            | March          | 26,2024  |          |

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| Job     | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING BLD G   |
|---------|-------|------------|-----|-----|---------------------------------------|
| 3907862 | D01   | Common     | 6   | 1   | R81482211<br>Job Reference (optional) |





| (psf)   | Spacing   | 2-0-0   |   | CSI   |  | DEFL  | in  | (loc)   | l/defl   | L/d   | PLATES  | GRIP  |   |
|---|---|---|---|---|--|---|---|---|--|---|---|---|---|
| 25.0  | Plate Grip DOL  | 1.15  |   | тс  | 0.40   | Vert(LL)  | -0.07   | 6-8   | >999   | 240   | MT20  | 185/148   |   |
| 15.0  | Lumber DOL  | 1.15  |   | BC  | 0.51   | Vert(CT)  | -0.17   | 6-8   | >999   | 180   |   |   |   |
| 0.0*  | Rep Stress Incr   | YES   |   | WB  | 0.12   | Horz(CT)  | 0.05  | 6   | n/a  | n/a   |   |   |   |
| 10.0  | Code  | IBC2018/  | TPI2014   | Matrix-SH   |  |   |   |   |  |   | Weight: 75 lb   | FT = 10%  |   |
| 2x4 HF No.2<br>2x4 HF No.2<br>2x4 HF No.2<br>Structural wood shea<br>3-10-4 oc purlins. | athing directly applie  | 5)<br>6)<br>ed or 7)  | All bearings a<br>capacity of 4<br>Provide mec<br>bearing plate<br>2 and 40 lb u<br>This truss is<br>International  | are assumed to b<br>05 psi.<br>hanical connection<br>capable of withs<br>plift at joint 6.<br>designed in acco<br>Building Code se<br>bandard ANSI/TE   | oe HF No.<br>on (by oth<br>standing 4<br>ordance w<br>ection 230   | 2 crushing<br>ers) of truss<br>0 lb uplift at<br>ith the 2018<br>16.1 and   | to<br>joint   |   |  |   |   |   |   |
|   | (psf)<br>25.0<br>15.0<br>0.0*<br>10.0<br>2x4 HF No.2<br>2x4 HF No.2<br>2x4 HF No.2<br>2x4 HF No.2<br>Structural wood shea<br>3-10-4 oc purlins. | (psf)<br>25.0<br>15.0<br>0.0*<br>10.0<br>2x4 HF No.2<br>2x4 HF No.2 | (psf)         Spacing         2-0-0           25.0         Plate Grip DOL         1.15           15.0         Lumber DOL         1.15           0.0*         Rep Stress Incr         YES           10.0         Code         IBC2018/           2x4 HF No.2         5)         2x4 HF No.2           2x4 HF No.2         6)         2x4 HF No.2           2x4 HF No.2         7)         3-10-4 oc purlins. | (psf)       Spacing       2-0-0         25.0       Plate Grip DOL       1.15         15.0       Lumber DOL       1.15         0.0*       Rep Stress Incr       YES         10.0       Code       IBC2018/TPI2014         2x4 HF No.2       5)       All bearings a capacity of 4         2x4 HF No.2       6)       Provide mec         2x4 HF No.2       6)       Provide mec         2x4 HF No.2       7)       This truss is international internatinal international international internatinal | (psf)     Spacing     2-0-0     CSI       25.0     Plate Grip DOL     1.15     TC       15.0     Lumber DOL     1.15     BC       0.0*     Rep Stress Incr     YES     WB       10.0     Code     IBC2018/TPI2014     Matrix-SH       2x4 HF No.2     Shacing plate capable of withs 2 and 40 lb uplift at joint 6.     5)     All bearings are assumed to be capacity of 405 psi.       2x4 HF No.2     Structural wood sheathing directly applied or 3-10-4 oc purlins.     7)     This truss is designed in accordinate and 40 SUTP | (psf)       Spacing       2-0-0       CSI         25.0       Plate Grip DOL       1.15       TC       0.40         15.0       Lumber DOL       1.15       BC       0.51         0.0*       Rep Stress Incr       YES       WB       0.12         10.0       Code       IBC2018/TPI2014       Matrix-SH         2x4 HF No.2       5)       All bearings are assumed to be HF No. capacity of 405 psi.         2x4 HF No.2       5)       All bearings are assumed to be HF No. capacity of 405 psi.         2x4 HF No.2       5)       All bearings are assumed to be HF No. capacity of 405 psi.         2x4 HF No.2       5)       All bearing plate capable of withstanding 4 2 and 40 lb uplift at joint 6.         Structural wood sheathing directly applied or 3-0-4 oc purlins.       7)       This truss is designed in accordance wind the mational Building Code section 230         Terefore distingting the provide the 40.0.0 cm       7)       This trust is designed in accordance wind the mational Building Code section 230 | (psf)       Spacing       2-0-0       CSI       DEFL         25.0       Plate Grip DOL       1.15       TC       0.40       Vert(LL)         15.0       Lumber DOL       1.15       BC       0.51       Vert(LL)         0.0*       Rep Stress Incr       YES       WB       0.12       Horz(CT)         10.0       Code       IBC2018/TPI2014       Matrix-SH       5)       All bearings are assumed to be HF No.2 crushing capacity of 405 psi.         2x4 HF No.2       5)       All bearings are assumed to be HF No.2 crushing capacity of 405 psi.       6)       Provide mechanical connection (by others) of truss bearing plate capable of withstanding 40 lb uplift at 2 and 40 lb uplift at joint 6.         Structural wood sheathing directly applied or 3-10-4 oc purlins.       7)       This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1. | (psf)       Spacing       2-0-0       CSI       DEFL       in         25.0       Plate Grip DOL       1.15       TC       0.40       Vert(LL)       -0.07         15.0       Lumber DOL       1.15       BC       0.51       Vert(CT)       -0.17         0.0*       Rep Stress Incr       YES       WB       0.12       Horz(CT)       0.05         10.0       Code       IBC2018/TPI2014       Matrix-SH       5)       All bearings are assumed to be HF No.2 crushing capacity of 405 psi.         2x4 HF No.2       5)       All bearings are assumed to be HF No.2 crushing capacity of 405 psi.       6)       Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 40 lb uplift at joint 2 and 40 lb uplift at joint 6.       7)       This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1. | (psf)<br>25.0<br>15.0<br>0.0*Spacing<br>Plate Grip DOL<br>1.152-0-0<br>1.15CSI<br>TC<br>0.40<br>BC<br>WB<br>WB<br>Matrix-SHDEFL<br>Vert(LL)<br>-0.07in(loc)<br>6-8<br>Vert(CT)<br>-0.172x4 HF No.2<br>2x4 HF No.2<br>2x4 HF No.2 | (psf)<br>25.0<br>15.0<br>0.0*Spacing<br>Plate Grip DOL<br>1.152-0-0<br>1.15CSI<br>TC<br>0.40<br>BC<br>WB<br>WB<br>WB<br>0.12DEFL<br>Vert(LL)<br>Vert(CT)<br>0.07in(loc)<br>/defl<br>Vert(CT)<br>0.07//defl<br>6-8<br>>999<br>999<br>Vert(CT)<br>0.05in(loc)<br>6-8<br>>999<br>Vert(CT)<br>0.05//defl<br>6-8<br>>999<br>Vert(CT)<br>0.05//defl<br>6-8<br>>999<br>Vert(CT)<br>0.05//defl<br>6-8<br>>999<br>Vert(CT)<br>0.05//defl<br>6-8<br>o.072x4 HF No.2<br>2x4 HF No.2<br>2x4 HF No.25)<br>All bearings are assumed to be HF No.2 crushing<br>capacity of 405 psi.5)<br>Provide mechanical connection (by others) of truss to<br>bearing plate capable of withstanding 40 lb uplift at joint<br>2 and 40 lb uplift at joint 6.5)Structural wood sheathing directly applied or<br>3-10-4 oc purins.7)<br>This truss is designed in accordance with the 2018<br>International Building Code section 2306.1 and<br>referenced standard ANSI/TPI 1.7) | (psf)<br>25.0<br>15.0<br>0.0*Spacing<br>Plate Grip DOL<br>Lumber DOL<br>1.02-0-0<br>1.15<br>TCCSI<br>TCDEFL<br>vert(LL)<br>vert(LL)<br>-0.07in(loc)<br>identical indication<br>identical indication0.0*<br>0.0*<br>10.0Plate Grip DOL<br>Lumber DOL<br>1.151.15<br>VES<br>VES<br>VES<br>VBRBC<br>0.51<br>WB<br>Matrix-SHDEFL<br>Vert(CT)<br>identical indication<br>identical indicationin(loc)<br>identical indication<br>identical indicationin2x4 HF No.2<br>2x4 HF No.2<br>2x4 HF No.25)All bearings are assumed to be HF No.2 crushing<br>capacity of 405 psi.inin5)All bearings are assumed to be HF No.2 crushing<br>capacity of 405 psi.6)Provide mechanical connection (by others) of truss to<br>bearing plate capable of withstanding 40 lb uplift at joint<br>2 and 40 lb uplift at joint 6.in7)This truss is designed in accordance with the 2018<br>International Building Code section 2306.1 and<br>referenced standard ANSI/TPI 1.in | (psf)       Spacing       2-0-0       CSI       DEFL       in       (loc)       l/defl       L/d       PLATES         25.0       Plate Grip DOL       1.15       TC       0.40       Vert(LL)       -0.07       6-8       >999       240       MT20         15.0       Lumber DOL       1.15       BC       0.51       Vert(CT)       -0.17       6-8       >999       180         0.0*       Rep Stress Incr       YES       WB       0.12       Horz(CT)       0.05       6       n/a       n/a         2x4 HF No.2       Code       IBC2018/TPI2014       Matrix-SH       5)       All bearings are assumed to be HF No.2 crushing capacity of 405 psi.       6)       Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 40 lb uplift at joint 2 and 40 lb uplift at joint 2 and 40 lb uplift at joint 6.       7)       This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1. | (psf)       Spacing       2-0-0       CSI       DEFL       in       (loc)       I/defl       L/d       PLATES       GRIP         25.0       Plate Grip DOL       1.15       TC       0.40       Vert(LL)       -0.07       6-8       >999       240       MT20       185/148         15.0       0.0*       Rep Stress Incr       YES       BC       0.51       Vert(CT)       -0.17       6-8       >999       180       MT20       185/148         2x4 HF No.2       Code       IBC2018/TPI2014       Matrix-SH       WB       0.12       Horz(CT)       0.05       6       n/a       n/a         2x4 HF No.2       Code       IBC2018/TPI2014       Matrix-SH       Sindering are assumed to be HF No.2 crushing capacity of 405 psi.       FT = 10%         2x4 HF No.2       5)       All bearings are assumed to be HF No.2 crushing capacity of 405 psi.       Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 40 lb uplift at joint 2 and 40 lb uplift at joint 2 and 40 lb uplift at joint 2 and 40 lb uplift at joint 6.       This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.         Stridewing directly applied or 3-10-4 oc purlins.       This trust indariad ANSI/TPI 1.       This trust indariad ANSI/TPI 1. |

LOAD CASE(S) Standard

| BOT CHORD | Rigid ceili<br>bracing. | ing directly applied or 10-0-0 oc                            |
|-----------|-------------------------|--|
| REACTIONS | (size)                  | 2=0-3-8, 6=0-3-8   |
|           | Max Horiz               | 2=-65 (LC 13)  |
|           | Max Uplift              | 2=-40 (LC 12), 6=-40 (LC 13)                                 |
|           | Max Grav                | 2=1115 (LC 1), 6=1115 (LC 1)                                 |
| FORCES    | (lb) - Max<br>Tension   | imum Compression/Maximum                                     |
| TOP CHORD | 1-2=0/34,<br>4-5=-1553  | 2-3=-1781/115, 3-4=-1553/124, 3/124, 5-6=-1781/115, 6-7=0/34 |

BOT CHORD 2-10=-55/1505, 8-10=0/1003, 6-8=-50/1505 4-8=-25/574, 5-8=-397/120, 4-10=-25/574, WEBS 3-10=-397/120

#### NOTES

1) Unbalanced roof live loads have been considered for this design.

2) 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 10-4-8, Exterior(2R) 10-4-8 to 13-4-8, Interior (1) 13-4-8 to 21-9-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

\* This truss has been designed for a live load of 20.0psf 4) 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.

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AND WASE
PORESSIONAL ENGINE
    -WAL ENGINE
    March 26,2024
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👠 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not beigh valid for use only with with the connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and property incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcscomponents.com) 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 BLD G   |
|---------|-------|------------|-----|-----|---------------------------------------|
| 3907862 | D02   | Common     | 2   | 1   | R81482212<br>Job Reference (optional) |

Scale = 1:43.2

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 Page: 1

 ID:sxggIKWpka4vZbQaMqHYFfzZ3uX-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f
 PRMU20240404



20-9-0

|             |            |                        |  | -                 |                 |                       |             |                   |            |       |        |     |               |          |   |
|-------------|------------|------------------------|--|-------------------|-----------------|-----------------------|-------------|-------------------|------------|-------|--------|-----|---------------|----------|---|
| Loading     |            | (psf)                  | Spacing  | 2-0-0             |                 | CSI                   |             | DEFL              | in         | (loc) | l/defl | L/d | PLATES        | GRIP     |   |
| TCLL (roof) |            | 25.0                   | Plate Grip DOL   | 1.15              |                 | тс                    | 0.08        | Vert(LL)          | n/a        | -     | n/a    | 999 | MT20          | 185/148  |   |
| TCDL        |            | 15.0                   | Lumber DOL   | 1.15              |                 | вс                    | 0.03        | Vert(CT)          | n/a        | -     | n/a    | 999 |               |          |   |
| BCLL        |            | 0.0*                   | Rep Stress Incr  | YES               |                 | WB                    | 0.07        | Horz(CT)          | 0.00       | 12    | n/a    | n/a |               |          |   |
| BCDL        |            | 10.0                   | Code   | IBC2018           | 3/TPI2014       | Matrix-SH             | 0.01        |                   | 0.00       |       |        |     | Weight: 83 lb | FT = 10% |   |
|             |            |                        |  |                   |                 |                       |             |                   |            |       |        |     | 0             |          | - |
| LUMBER      |            |                        |  | 1)                | Unbalanced      | roof live loads hav   | e been o    | considered fo     | or         |       |        |     |               |          |   |
| TOP CHORD   | 2x4 HF N   | 0.2                    |  |                   | this design.    |                       |             |                   |            |       |        |     |               |          |   |
| BOT CHORD   | 2x4 HF N   | 0.2                    |  | 2)                | Wind: ASCE      | 7-16; Vult=110mp      | h (3-sec    | cond gust)        | <b>.</b> . |       |        |     |               |          |   |
| OTHERS      | 2x4 HF N   | 0.2                    |  |                   | Vasd=8/mph      | n; TCDL=4.2psf; B     | CDL=6.0     | Upsf; h=25ft;     | Cat.       |       |        |     |               |          |   |
| BRACING     |            |                        |  |                   | II; Exp B; En   | Closed; MIVERS (      | envelope    | e) exterior zor   | ne         |       |        |     |               |          |   |
| TOP CHORD   | Structura  | I wood shea            | athing directly applied  | or                |                 | ner(3E) -1-0-0 to 2   | 2-0-0, EX   | (terior(2N) 2-0   | 0-0        |       |        |     |               |          |   |
|             | 6-0-0 oc   | purlins.               |  |                   | 12 4 9 to 21    | 0.0 zono: contilou    | or loft or  | d right export    | od ·       |       |        |     |               |          |   |
| BOT CHORD   | Rigid ceil | ing directly           | applied or 10-0-0 oc   |                   | end vertical l  | oft and right expos   |             | for members       | and        |       |        |     |               |          |   |
|             | bracing.   |                        |  |                   | forces & MW     | FRS for reactions     | shown.      | l umber           | ana        |       |        |     |               |          |   |
| REACTIONS   | (size)     | 2=20-9-0,              | 12=20-9-0, 14=20-9-0   | ),                | DOI = 1.60  pl  | ate grip DOI =1.60    | )           | Lambol            |            |       |        |     |               |          |   |
|             |            | 15=20-9-0              | 0, 16=20-9-0, 17=20-9-   | <sup>-0,</sup> 3) | Truss design    | ned for wind loads    | in the p    | lane of the tru   | uss        |       |        |     |               |          |   |
|             |            | 19=20-9-0              | ), 20=20-9-0, 21=20-9-   | -0, -,            | only. For stu   | ids exposed to wir    | nd (norm    | al to the face    |            |       |        |     |               |          |   |
|             | M          | 22=20-9-0              | ), 23=20-9-0   |                   | see Standard    | d Industry Gable E    | nd Deta     | ils as applica    | ble,       |       |        |     |               |          |   |
|             | Max Horiz  | 2=-65 (LU              | (17)   |                   | or consult qu   | alified building de   | signer as   | s per ANSI/TI     | PI 1.      |       |        |     |               |          |   |
|             | wax upint  | 2=-7 (LC               | (13), 12=0 (LC 13),<br>C (12) (LC 13),                         | 4)                | All plates are  | e 2x4 MT20 unless     | otherwi     | se indicated.     |            |       |        |     |               |          |   |
|             |            | 14=-20 (L<br>1625 (L   | C = 13, $13 = -25$ (LC = 13),<br>C = 13), $17 = -26$ (LC = 13) | ' 5)              | Gable require   | es continuous bott    | om chor     | d bearing.        |            |       |        |     |               |          |   |
|             |            | 2027 (L                | C 12), 17=-20 (LC 13),<br>C 12), 2125 (LC 12)                  | ' 6)              | Gable studs     | spaced at 2-0-0 or    | <b>C.</b>   |                   |            |       |        |     |               |          |   |
|             |            | 20= 27 (L<br>22=-25 (L | C(12), 21=25(LC(12))<br>C(12), 23=-26(LC(12))                  | ' 7)              | This truss ha   | is been designed f    | or a 10.0   | 0 psf bottom      |            |       |        |     |               |          |   |
|             | Max Grav   | 2=204 (LC              | C 1), 12=204 (LC 1).   |                   | chord live loa  | ad nonconcurrent      | with any    | other live loa    | ids.       |       |        |     |               |          |   |
|             | max orar   | 14=226 (L              | _C 26), 15=193 (LC 26  | ). 8)             | * This truss h  | has been designed     | l for a liv | e load of 20.0    | 0psf       |       |        |     |               |          |   |
|             |            | 16=200 (L              | _C 1), 17=211 (LC 26),   |                   | on the bottor   | n chord in all area   | s where     | a rectangle       |            |       |        |     |               |          |   |
|             |            | 19=174 (L              | _C 22), 20=211 (LC 25  | ),                | 3-06-00 tall t  | by 2-00-00 wide wi    | II III Delv | veen the botto    | om         |       |        |     |               |          |   |
|             |            | 21=200 (L              | _C 1), 22=193 (LC 25),   | 0)                | All bearings    | are assumed to be     |             | 2 crushing        |            |       |        |     |               |          |   |
|             |            | 23=226 (L              | _C 25)   | 3)                | capacity of 4   | 05 nei                | 7 III INO.  | 2 crushing        |            |       |        |     |               |          |   |
| FORCES      | (lb) - Max | timum Com              | pression/Maximum   | 10                | ) Provide med   | hanical connectior    | n (by oth   | ers) of truss t   | to         |       |        |     | OMIN          | Ga       |   |
|             |            | 0.0 04/4               | 7 0 4 00/47  |                   | bearing plate   | e capable of withst   | anding 6    | 6 lb uplift at jo | oint       |       |        |     | TAUM          | CHA      |   |
| TOP CHORD   | 1-2=0/34   | 2-3=-91/4              | 7, 3-4=-08/47,<br>/96 6 7_ 65/119                              |                   | 12, 27 lb upli  | ft at joint 20, 25 lb | uplift at   | joint 21, 25 ll   | b          |       |        | -   | T OF WA       | SHO      |   |
|             | 7 9 - 65/1 | 19, 5-0=-50            | 0/96 0 10- 51/52   |                   | uplift at joint | 22, 26 lb uplift at j | oint 23, 2  | 26 lb uplift at   | joint      |       |        | -   | AN ST         |          |   |
|             | 10-115     | 3/26 11-12             | 0/00, 9-10=-31/32,<br>970/33 12-13-0/34                        |                   | 17, 25 lb upli  | ft at joint 16, 25 lb | uplift at   | joint 15, 26 ll   | b          |       |        | -   |               | 6        |   |
|             | 2-23=-30   | /72 22-23=             | -30/72 21-22=-30/72  |                   | uplift at joint | 14 and 7 lb uplift a  | at joint 2. |                   |            |       |        |     |               |          |   |
|             | 20-21=-3   | 0/72. 19-20            | )=-30/72. 17-19=-30/72   | 2. 11             | ) Beveled plate | e or snim required    | to provi    | de fuil bearing   | g          |       |        |     |               |          |   |
|             | 16-17=-3   | 0/72, 15-16            | 5=-30/72, 14-15=-30/72   | 2, 10             | ) This truck is | designed in accord    | l(S) Z.     | ith the 2019      |            |       |        |     |               |          |   |
|             | 12-14=-3   | 0/72                   | ,  | 12                | International   | Building Code ser     | tion 230    | )6 1 and          |            |       |        |     | 510           | TA ISA   |   |
| WEBS        | 7-19=-13   | 4/8, 6-20=-            | 172/57, 5-21=-159/58,  |                   | referenced s    | tandard ANSI/TPI      | 1           |                   |            |       |        |     | TO REGIME     | The A    |   |
|             | 4-22=-15   | 5/55, 3-23=            | -178/72, 8-17=-172/57  | <sup>7,</sup> IC  | AD CASE(S)      | Standard              | ••          |                   |            |       |        |     | P.B. UIST     | En CIT   |   |
|             | 9-16=-15   | 9/58, 10-15            | 5=-155/55, 11-14=-178  | /72               |                 | Clandara              |             |                   |            |       |        |     | SIONA         | LEN      |   |
| NOTES       |            |                        |  |                   |                 |                       |             |                   |            |       |        |     |               |          |   |
|             |            |                        |  |                   |                 |                       |             |                   |            |       |        |     |               |          |   |

March 26,2024

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| Job     | Truss | Truss Type                | Qty | Ply | MKM LEGACY EAST TOWN CROSSING BLD G |
|---------|-------|---------------------------|-----|-----|-------------------------------------|
| 3907862 | M01   | Monopitch Supported Gable | 2   | 1   | R81482213 Job Reference (optional)  |

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Scale = 1:35.1

#### Plate Offsets (X, Y): [6:0-4-0,0-4-8]

| Loading     |            | (psf)  | Spacing                                    | 2-0-0         |  | csi                    |            | DEFL                 | in    | (loc) | l/defl  | L/d    | PLATES        | GRIP     |  |  |  |  |  |
|-------------|------------|--|--|---------------|--|------------------------|------------|----------------------|-------|-------|---------|--------|---------------|----------|--|--|--|--|--|
| TCLL (roof) |            | 25.0   | Plate Grip DOL                             | 1.15          |  | TC                     | 0.28       | Vert(LL)             | n/a   | -     | n/a     | 999    | MT20          | 185/148  |  |  |  |  |  |
| TCDL        |            | 15.0   | Lumber DOL                                 | 1.15          |  | BC                     | 0.03       | Vert(TL)             | n/a   | -     | n/a     | 999    |               |          |  |  |  |  |  |
| BCLL        |            | 0.0*   | Rep Stress Incr                            | NO            |  | WB                     | 0.21       | Horiz(TL)            | 0.00  | 11    | n/a     | n/a    |               |          |  |  |  |  |  |
| BCDL        |            | 10.0   | Code                                       | IBC20         | 18/TPI2014   | Matrix-R               |            |                      |       |       |         |        | Weight: 71 lb | FT = 10% |  |  |  |  |  |
|             |            |  |  |               |  |                        |            |                      |       |       | Vantia  | 10 70  |               |          |  |  |  |  |  |
| LUMBER      |            |  |  |               |  | 7 40 1/14 440          | h (0       |                      |       |       | ven: 1- | 10=-73 | 94, 11-20=-20 |          |  |  |  |  |  |
| TOP CHORD   | 2x6 DF N   | 10.2   |  |               | 1) Wind: ASCE  | 7-16; Vult=110mp       | on (3-sec  | cond gust)           | 0-4   |       |         |        |               |          |  |  |  |  |  |
| BOT CHORD   | 2x4 HF N   | 0.2  |  |               | vaso=87mpr   | 1; TCDL=4.2pst; B      | CDL=6.     | Upst; n=25tt; 0      | Cat.  |       |         |        |               |          |  |  |  |  |  |
| WEBS        | 2x4 HF N   | 0.2  |  |               | II; EXP B; EN  |                        | envelope   | e) exterior zor      | ie    |       |         |        |               |          |  |  |  |  |  |
| OTHERS      | 2x4 HF N   | 10.2   |  |               | and C-C Cor  | ner (3) zone; canu     | iever iei  | t and right          |       |       |         |        |               |          |  |  |  |  |  |
| BRACING     |            |  |  |               | exposed; en  |                        | ngni exp   |                      |       |       |         |        |               |          |  |  |  |  |  |
| TOP CHORD   | Structura  | I wood shea  | athing directly applie                     | ed or         | Internoters and  | 1 FO ploto grip D      |            | Clions shown         | ,     |       |         |        |               |          |  |  |  |  |  |
|             | 6-0-0 oc   | purlins, exe   | cept end verticals.                        |               |  | = 1.60 plate grip D    | UL=1.0     | J<br>Jama af tha tw  |       |       |         |        |               |          |  |  |  |  |  |
| BOT CHORD   | Rigid ceil | ing. 27 This designed of which loads in the plane of the datas |  |               |  |                        |            |                      |       |       |         |        |               |          |  |  |  |  |  |
| PEACTIONS   | (size)     | 11-18-2-4  | 12-18-2-4 13-18                            | -2-1          | see Standard   | d Industry Gable E     | nd Deta    | ils as applica       | ble,  |       |         |        |               |          |  |  |  |  |  |
| REACTIONS   | (3126)     | 1/-18-2-4  | 15-18-2-4, 15-10                           | -2-4,<br>-2-1 | or consult qu  | alified building des   | signer a   | s per ANSI/TF        | PI 1. |       |         |        |               |          |  |  |  |  |  |
|             |            | 17-18-2-4  | 18-18-2-4 10-18                            | -2-4          | <ol><li>Provide adec</li></ol>                           | quate drainage to p    | prevent    | water ponding        | g.    |       |         |        |               |          |  |  |  |  |  |
|             |            | 20=18-2-4  | , 10=10 2 4, 13=10                         | <u>۲</u> ,    | <ol><li>All plates are</li></ol>                         | 2x4 MT20 unless        | otherwi    | se indicated.        |       |       |         |        |               |          |  |  |  |  |  |
|             | Max Horiz  | 20=37 (1 (   | . 9)                                       |               | <ol><li>Gable require</li></ol>                          | es continuous bott     | om choi    | d bearing.           |       |       |         |        |               |          |  |  |  |  |  |
|             | Max Uplift | 11=-39 (I  | (12) 12=-108 (I C                          | 8)            | <ol><li>Truss to be f</li></ol>                          | ully sheathed from     | one fac    | e or securely        |       |       |         |        |               |          |  |  |  |  |  |
|             |            | 13=-94 (L  | C 12), 12= 100 (EC<br>C 12), 14=-96 (I C 8 | (),<br>()     | braced again   | ist lateral moveme     | nt (i.e. c | liagonal web)        |       |       |         |        |               |          |  |  |  |  |  |
|             |            | 15=-95 (L  | C 12), 11= 00 (LC 0<br>C 12), 16=-95 (LC 8 | )             | 7) Gable studs   | spaced at 2-0-0 or     | <b>)</b> . |                      |       |       |         |        |               |          |  |  |  |  |  |
|             |            | 17=-95 (L  | C 12), 18=-96 (LC 8                        | ),            | <li>B) This truss ha</li>                                | s been designed f      | or a 10.   | 0 psf bottom         |       |       |         |        |               |          |  |  |  |  |  |
|             |            | 19=-96 (L  | C 12), 20=-41 (LC 8                        | )             | chord live loa   | ad nonconcurrent v     | with any   | other live loa       | ds.   |       |         |        |               |          |  |  |  |  |  |
|             | Max Grav   | 11=694 (L  | C 1), 12=1808 (LC                          | ,<br>1).      | 9) * This truss h  | nas been designed      | for a liv  | e load of 20.0       | Opsf  |       |         |        |               |          |  |  |  |  |  |
|             |            | 13=1596  | LC 1), 14=1640 (LC                         | ; 1).         | on the bottom chord in all areas where a rectangle       |                        |            |                      |       |       |         |        |               |          |  |  |  |  |  |
|             |            | 15=1627  | LC 1), 16=1621 (LC                         | C 1).         | 3-06-00 tall by 2-00-00 wide will fit between the bottom |                        |            |                      |       |       |         |        |               |          |  |  |  |  |  |
|             |            | 17=1630  | LC 1), 18=1622 (LC                         | C 1).         | chord and ar   | ly other members.      |            |                      |       |       |         |        |               |          |  |  |  |  |  |
|             |            | 19=1701  | LC 1), 20=628 (LC                          | 1)            | 10) All bearings   | are assumed to be      | HF NO.     | 2 crushing           |       |       |         |        | I             |          |  |  |  |  |  |
| FORCES      | (lb) - Max | imum Com   | pression/Maximum                           | ,             | capacity of 4  | 05 psi.                |            |                      |       |       |         |        | OMIN          | U ZH     |  |  |  |  |  |
|             | Tension    |  | procession                                 |               | 11) Provide mec  | nanical connection     | i (by oth  | ers) of truss t      | 0     |       |         |        | THE W         | ASD      |  |  |  |  |  |
| TOP CHORD   | 1-20=-60   | 9/186 1-2=   | -52/18 2-3=-58/21                          |               | bearing plate  | capable of withst      | anding 4   | 1 Ib uplift at j     | oint  |       |         |        | 100           |          |  |  |  |  |  |
|             | 3-4=-58/2  | 23. 4-5=-58  | 25. 5-7=-57/27.                            |               | 20, 39 lb upi  | ft at joint 11, 96 lb  | upliπ at   | Joint 19, 96 lt      | )<br> |       |         | 2      | 201           |          |  |  |  |  |  |
|             | 7-8=-45/2  | 27. 8-9=-44  | 28, 9-10=-47/32.                           |               | upint at joint   | 18, 95 ib upilit at jo |            |                      | joint |       |         | 2      | State         |          |  |  |  |  |  |
|             | 10-11=-6   | 75/207   | -, ,                                       |               | 16, 95 lb upil   | 12 and 109 lb unlit    | upilit at  | JOINT 14, 94 10      | 5     |       |         |        |               |          |  |  |  |  |  |
| BOT CHORD   | 19-20=-3   | 7/60, 18-19  | =-37/60, 17-18=-37/                        | /60,          |  | designed in second     | donoo w    | 112.<br>114 the 2019 |       |       |         |        |               |          |  |  |  |  |  |
|             | 16-17=-3   | 7/60, 15-16  | =-37/60, 14-15=-33/                        | /49,          | International  | Building Code sec      | stion 230  | $10100 \pm 2010$     |       |       |         |        |               |          |  |  |  |  |  |
|             | 13-14=-3   | 3/49, 12-13  | =-33/49, 11-12=-33/                        | /49           | referenced   | tandard ANSI/TDI       | 1          |                      |       |       |         | 7      | 7 540         | 74 / 5 / |  |  |  |  |  |
| WEBS        | 2-19=-16   | 63/512, 3-1  | 8=-1582/470,                               |               |  |                        | 1.         |                      |       |       |         | -      | Op EGICT      | TEREY SY |  |  |  |  |  |
|             | 4-17=-15   | 90/472, 5-1  | 6=-1581/469,                               |               |  | Standard               | Lunch      |                      | 4.5   |       |         |        | ESC           | GI       |  |  |  |  |  |
|             | 6-15=-15   | 87/471, 7-1  | 4=-1600/474,                               |               | <ol> <li>Dead + Roo</li> <li>Diata la</li> </ol>         | of Live (balanced):    | Lumber     | increase=1.          | 15,   |       |         |        | SION/         | LEN      |  |  |  |  |  |
|             | 8-13=-15   | 57/463, 9-1  | 2=-1765/523                                |               | Plate Increa   | ase=1.15               |            |                      |       |       |         |        |               |          |  |  |  |  |  |

Uniform Loads (lb/ft)



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Page: 1

| Job     | Truss | Truss Type                 | Qty | Ply | MKM LEGACY EAST TOWN CROSSING BLD G   |
|---------|-------|----------------------------|-----|-----|---------------------------------------|
| 3907862 | M02   | Monopitch Structural Gable | 2   | 1   | R81482214<br>Job Reference (optional) |

Run: 8,63 S Nov 1 2023 Print: 8,630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 25 09:36:46 ID: Bxjk6SOoHdTJTXUs9xwV4zzZ4Fw-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f







Scale = 1:52

| DI - 4 - | <u>0</u> " | $\sim$ | 10. | 104.0 0 0 0 | 4 4 01  | 00.0 0 40 0 4 | 41  |
|----------|------------|--------|-----|-------------|---------|---------------|-----|
| Plate    | Offsets    | (X,    | Y): | 21:0-2-0,0  | -1-12], | 22:0-2-12,0-1 | -41 |

| Loading     |            | (psf)        | Spacing                                   | 2-0-0       |  | csi                     |            | DEFL            | in         | (loc) | l/defl | L/d | PLATES         | GRIP      |
|-------------|------------|--------------|---|-------------|--|-------------------------|------------|-----------------|------------|-------|--------|-----|----------------|-----------|
| TCLL (roof) |            | 25.0         | Plate Grip DOI                            | 1 15        |  | тс                      | 0 45       | Vert(LL)        | -0 15      | 20-21 | >999   | 240 | MT20           | 185/148   |
| TCDI        |            | 15.0         | Lumber DOI                                | 1 15        |  | BC                      | 0.62       | Vert(CT)        | -0.31      | 20-21 | >700   | 180 |                |           |
| BCLL        |            | 0.0*         | Ren Stress Incr                           | YES         |  | WB                      | 0.50       | Horz(CT)        | 0.03       | 18    | n/a    | n/a |                |           |
| BCDI        |            | 10.0         | Code                                      | IBC20       | 8/TPI2014  | Matrix-SH               | 0.00       | 11012(01)       | 0.00       | 10    | n/ a   | n/a | Weight: 155 lb | FT - 10%  |
| DODL        |            | 10.0         | Code                                      | ID020       | 10/11/12/014   | Wath Str                |            |                 |            |       |        |     | weight. 155 lb | 11 = 1070 |
| LUMBER      |            |              |   | V           | VEBS 2   | 2-21=-342/166, 3-2      | 0=0/24     | 9, 5-18=-734    | /216,      |       |        |     |                |           |
| TOP CHORD   | 2x6 DF N   | 0.2          |   |             | 3  | 3-18=-2289/435, 2-      | 20=-53     | 0/114,          |            |       |        |     |                |           |
| BOT CHORD   | 2x6 DF N   | 0.2          |   |             |  | 1-21=-438/2364, 6-      | 17=-39     | /243,           |            |       |        |     |                |           |
| WEBS        | 2x4 HF N   | 0.2          |   |             | 7  | 7-16=-230/78, 8-15      | =-147/5    | 8, 9-14=-173    | 3/65,      |       |        |     |                |           |
| OTHERS      | 2x4 HF N   | 0.2          |   |             |  | 10-13=-214/65           |            |                 |            |       |        |     |                |           |
| BRACING     |            |              |   | N           | IOTES  |                         |            |                 |            |       |        |     |                |           |
| TOP CHORD   | Structura  | I wood she   | athing directly applie                    | ed or 1     | ) Wind: ASCE   | 7-16; Vult=110mpl       | h (3-sec   | cond gust)      | <b>•</b> • |       |        |     |                |           |
|             | 4-5-5 oc j | purlins, ex  | cept end verticals.                       |             | Vasd=8/mpr   | n; TCDL=4.2psf; BC      | JDL=6.     | Jpst; h=25tt;   | Cat.       |       |        |     |                |           |
| BOT CHORD   | bracing.   | ing directly | applied or 6-0-0 oc                       |             | and C-C Cor  | ner (3) zone; cantil    | ever lef   | t and right     | me         |       |        |     |                |           |
| WEBS        | 1 Row at   | midpt        | 3-18                                      |             | exposed ; en   | d vertical left and r   | ight exp   | osed;C-C fo     | r          |       |        |     |                |           |
| REACTIONS   | (size)     | 12=11-3-8    | 3. 13=11-3-8. 14=11                       | -3-8.       | members an   | d forces & MWFRS        | 6 for rea  | ctions shown    | n;         |       |        |     |                |           |
|             | ()         | 15=11-3-8    | 3 16=11-3-8 17=11                         | -3-8        | Lumber DOL   | =1.60 plate grip D0     | OL=1.60    | )               |            |       |        |     |                |           |
|             |            | 18=11-3-8    | 3 22=0-5-8                                | 2 2         | ) Truss desigi   | ned for wind loads      | in the p   | lane of the tr  | uss        |       |        |     |                |           |
|             | Max Horiz  | 22=41 (1 (   | C 11)                                     |             | only. For stu  | ids exposed to win      | d (norm    | al to the face  | e),        |       |        |     |                |           |
|             | Max Unlift | 12=-177 (    | IC1) 13=-20 (IC8                          | )           | see Standard   | d Industry Gable Er     | nd Deta    | ils as applica  | able,      |       |        |     |                |           |
|             | Max Opint  | 14-12 (      | (12), 15 = 20 (100)                       | ),          | or consult qu  | alified building des    | igner a    | s per ANSI/T    | PI 1.      |       |        |     |                |           |
|             |            | 1618 (L      | C 12), 13= 11 (LO 0<br>C 12), 17=-557 (LC | /,<br>1) 3  | ) Provide adeo   | quate drainage to p     | revent     | water pondin    | ıg.        |       |        |     |                |           |
|             |            | 1896 (L      | C(12), 17 = 357 (EC                       | \',<br>4    | ) All plates are   | 2x4 MT20 unless         | otherwi    | se indicated.   |            |       |        |     |                |           |
|             | Max Grav   | 12-10 (10    | 2 8) 13-367 (I C 1)                       | ′ 5         | ) Truss to be f  | ully sheathed from      | one fac    | e or securely   | v          |       |        |     |                |           |
|             |            | 14-209 (1    | (10, 10-300, (10, 1))                     | <b>`</b>    | braced again   | ist lateral movemer     | nt (i.e. d | iagonal web     | ).         |       |        |     |                |           |
|             |            | 14-200 (L    | (101), $17-20$ (1 C 12)                   | ,<br>6<br>6 | ) Gable studs  | spaced at 2-0-0 oc      |            |                 | ,          |       |        |     |                |           |
|             |            | 18-1673      | (  C 1), 17 = 29 (  C 12)                 | /,<br>1) 7  | ) This truss ha  | s been designed fo      | or a 10.0  | ) psf bottom    |            |       |        |     |                |           |
| FORCES      | (lb) Mov   |              |   | ')          | , chord live loa   | ad nonconcurrent w      | vith any   | other live loa  | ads.       |       |        |     |                |           |
| FURCES      | (ID) - Max | amum Com     | ipression/iviaximum                       | 8           | 8) * This truss has been designed for a live load of 20.0psf |                         |            |                 |            |       |        |     |                |           |
|             | 1 22 72    | E/170 1 0    | 2661/497                                  |             | on the bottor  | n chord in all areas    | where      | a rectangle     | •          |       |        |     | ► OMING        | J ZH      |
| TOP CHORD   | 1-22=-72   | 0/173, 1-2=  | =-2001/487,<br>44/400 F C 20/07           |             | 3-06-00 tall b   | y 2-00-00 wide wil      | l fit betv | veen the bott   | tom        |       |        |     | 4 In WA        | A ON      |
|             | 2-3=-213   | 9/400, 3-5=  | =-44/109, 5-6=-39/97                      | ,           | chord and ar   | v other members.        |            |                 |            |       |        | . 7 | ' ACT WA       | NA C      |
|             | 6-7=-39/1  | 06, 7-8=-3   | 7/104, 8-9=-36/105,                       | 9           | ) All bearings   | are assumed to be       | HF No.     | 2 crushing      |            |       |        | 7   | 15 27          |           |
|             | 9-10=-34/  | /104, 10-11  | =-32/101, 11-12=-10                       | 0/69        | capacity of 4  | 05 psi.                 |            | 5               |            |       |        | -   | 10 A           |           |
| BUICHURD    | 21-22=-12  | 22/326, 20-  | -21=-533/2655,                            | 1           | 0) Provide mec   | hanical connection      | (by oth    | ers) of truss   | to         |       |        | -   |                |           |
|             | 18-20=-4   | 21/2135, 1   | 7-18=-103/41,                             |             | bearing plate  | capable of withsta      | andina 4   | 9 lb uplift at  | ioint      |       |        |     |                |           |
|             | 16-17=-10  | 03/41, 15-1  | 6=-103/41,                                |             | 22. 177 lb up  | lift at joint 12, 96 lb | o uplift a | t ioint 18, 55  | 57 lb      |       |        |     |                |           |
|             | 14-15=-10  | 03/41, 13-1  | 4=-103/41,                                |             | uplift at joint  | 17 18 lb uplift at io   | int 16     | 11 lb uplift at | ioint      |       |        |     |                |           |
|             | 12-13=-10  | 03/41        |   |             | 15. 12 lb unli   | ft at joint 14 and 20   | ) lb upli  | t at joint 13   | ,          |       |        |     | P \$ 540       | 40/8      |
|             |            |              |   | 1           | 1) This truss is   | designed in accord      | lance w    | ith the 2018    |            |       |        |     | GIST           | ERU       |
|             |            |              |   |             | International  | Building Code sec       | tion 230   | 6 1 and         |            |       |        |     | SSI0-          | ENG       |
|             |            |              |   |             | referenced s   | tandard ANSI/TPI        | 1.         |                 |            |       |        |     | NA             | LDI       |
|             |            |              |   | L           | OAD CASE(S)  | Standard                |            |                 |            |       |        |     |                |           |
|             |            |              |   |             | • • • •  |                         |            |                 |            |       |        |     |                |           |



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March 26,2024

| Job     | Truss | Truss Type       | Qty | Ply | MKM LEGACY EAST TOWN CROSSING BLD G   |
|---------|-------|------------------|-----|-----|---------------------------------------|
| 3907862 | M03   | Monopitch Girder | 8   | 1   | R81482215<br>Job Reference (optional) |

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 25 09:36:46 ID:MkM3FijYH1wdFiHmq?02iZzZ4OY-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f







Scale = 1:52

| Plate Offsets  | (X, Y): [2:0-2-0,0-1-8],   | , [6:0-1-12,0-2-0], [7:0  | 0-3-7,0-2-0   | ), [8:Edge,0-3   | -8], [9:0-3-8,0-1-1   | 2], [10:0-   | 3-4,0-1-8], [1   | 2:0-1-12                                    | ,0-1-12]                     | , [13:0-3                     | -8,0-2-                  | 4], [14:0-9-4,0-3-                         | 0]  |  |
|--|--|---|---|--|---|--|--|---|------------------------------|-------------------------------|--------------------------|--|---|--|
| <b>Loading</b><br>TCLL (roof)<br>TCDL<br>BCLL<br>BCDL  | (psf)<br>25.0<br>15.0<br>0.0*<br>10.0  | Spacing<br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code  | 2-0-0<br>1.15<br>1.15<br>NO<br>IBC2018                            | 8/TPI2014  | CSI<br>TC<br>BC<br>WB<br>Matrix-SH  | 0.94<br>0.69<br>0.98   | DEFL<br>Vert(LL)<br>Vert(CT)<br>Horz(CT)   | in<br>-0.63<br>-1.32<br>0.08                | (loc)<br>10-12<br>10-12<br>8 | l/defl<br>>548<br>>261<br>n/a | L/d<br>240<br>180<br>n/a | PLATES<br>MT20<br>M18AHS<br>Weight: 163 lb | <b>GRIP</b><br>220/195<br>169/162<br>FT = 10% |  |
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>BRACING<br>TOP CHORD<br>BOT CHORD<br>REACTIONS<br>FORCES             | 2x6 DF No.2<br>2x6 DF 2400F 2.0E<br>2x4 HF No.2 *Excep<br>1.6E<br>Structural wood she<br>1-7-10 oc purlins, e<br>Rigid ceiling directly<br>bracing.<br>(size) 8=0-5-8, '<br>Max Horiz 14=41 (LC<br>Max Uplift 8=-243 (L<br>Max Grav 8=1596 (I<br>(lb) - Maximum Com<br>Tension | ot* 1-13:2x4 DF 1800<br>eathing directly applie<br>except end verticals.<br>r applied or 6-10-11 c<br>14=0-5-8<br>C 11)<br>.C 12), 14=-179 (LC 1<br>LC 1), 14=1532 (LC 2<br>opression/Maximum | 4)<br>5)<br>F<br>d or 6)<br><sub>10</sub> 7)<br>8)<br>3)<br>9) 9) | This truss ha<br>chord live loa<br>* This truss h<br>on the bottor<br>3-06-00 tall th<br>chord and ar<br>All bearings<br>capacity of 4<br>Provide mec<br>bearing plate<br>joint 14 and 3<br>This truss is<br>International<br>referenced s<br>Hanger(s) or<br>provided suff<br>Ib down and | is been designed<br>ad nonconcurrent<br>has been designed<br>n chord in all area<br>yy 2-00-00 wide w<br>ny other members<br>are assumed to be<br>05 psi.<br>hanical connectio<br>c capable of withs?<br>243 lb uplift at joir<br>designed in accor<br>Building Code se<br>tandard ANSI/TPI<br>other connection<br>ficient to support of<br>127 lb up at 18-1 | for a 10.<br>with any<br>d for a liv<br>as where<br>ill fit betw<br>e HF No.<br>n (by oth<br>tanding 1<br>tt 8.<br>rdance w<br>ction 230<br>1.<br>device(s<br>concentra<br>-8, and 2 | D psf bottom<br>other live loa<br>e load of 20.<br>a rectangle<br>veen the bott<br>2 crushing<br>ers) of truss<br>79 lb uplift a<br>ith the 2018<br>b6.1 and<br>) shall be<br>ated load(s) 2<br>59 lb down a | ads.<br>Opsf<br>om<br>to<br>t<br>258<br>and |                              |                               |                          |  |   |  |
| TOP CHORD<br>BOT CHORD   | 1-14=-1374/365, 1-2<br>2-3=-8382/2237, 3-5<br>5-6=-7884/2335, 6-7<br>7-8=-1493/438<br>13-14=-187/529, 12   | 2=-6014/1478,<br>5=-7885/2331,<br>7=-4625/1319,<br>-13=-1526/6006,  | 10  | 126 lb up at<br>selection of s<br>responsibility<br>) In the LOAD<br>of the truss a  | 18-1-8 on bottom<br>such connection d<br>of others.<br>CASE(S) section<br>are noted as front  | , loads a<br>(F) or ba   | The design/<br>is the<br>oplied to the<br>ck (B).  | face  |                              |                               |                          |  |   |  |
| WEBS   | 10-12=22/1/83/6, 1<br>8-9=-60/178<br>5-10=-433/210, 1-12<br>2-13=-938/341, 2-12<br>3-12=-346/209, 3-10<br>6-10=-1072/3424, 6<br>7-9=-1318/4645   | 9-10=-1320/4620,<br>3=-1375/5560,<br>2=-773/2508,<br>)=-826/686,<br>-9=-1271/452,   | LC<br>1)  | DAD CASE(S)<br>Dead + Roo<br>Plate Increa<br>Uniform Loo<br>Vert: 1-7<br>Concentrate   | Standard<br>of Live (balanced)<br>ase=1.15<br>ads (lb/ft)<br>=-80, 8-14=-20<br>ed Loads (lb)<br>256 (E=-128 B=  | : Lumber   | Increase=1.  | 15,   |                              |                               | , y                      | LIAOMIN<br>VIAOF WA                        | S ZHAO  |  |
| NOTES<br>1) Wind: ASt<br>Vasd=87r<br>II; Exp B;<br>and C-C C<br>exposed ;<br>members<br>Lumber D<br>2) Provide a | CE 7-16; Vult=110mph<br>mph; TCDL=4.2psf; BC<br>Enclosed; MWFRS (er<br>Corner (3) zone; cantile<br>end vertical left and rig<br>and forces & MWFRS<br>OL=1.60 plate grip DC<br>dequate drainage to pr  | a (3-second gust)<br>CDL=6.0psf; h=25ft; C<br>hvelope) exterior zon<br>ever left and right<br>ght exposed;C-C for<br>for reactions shown;<br>DL=1.60<br>event water ponding                   | cat.<br>e   | ven. 10=   | -230 (F=-120, B=  | - 127)   |  |   |                              |                               |                          | PHORESSIONA                                | TA EBED CINES                                 |  |

- Provide adequate drainage to prevent water ponding. 2)
- 3) All plates are MT20 plates unless otherwise indicated.

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TALL

March 26,2024

| Job     | Truss | Truss Type       | Qty | Ply | MKM LEGACY EAST TOWN CROSSING BLD G   |
|---------|-------|------------------|-----|-----|---------------------------------------|
| 3907862 | M04   | Monopitch Girder | 10  | 1   | R81482216<br>Job Reference (optional) |

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 25 09:36:46 ID:PNJjVDqJea79w0dFEtVs2ezZ4BV-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f







#### Scale = 1:52

| Plate Offsets (   | (X, Y): [2:0-3-8,0-1-8],   | , [3:0-1-12,0-1-8], [6:  | 0-2-4,0-2-0  | ], [7:0-2-4,0-2-  | -4], [8:Edge,0-3-8],  | [9:0-2-4   | 4,0-2-8], [12:0  | )-3-8,0-2   | -8]                          |                               |                          |                                  |                                    |   |
|---|--|--|--|---|---|--|--|---|------------------------------|-------------------------------|--------------------------|----------------------------------|------------------------------------|---|
| Loading<br>TCLL (roof)<br>TCDL<br>BCLL<br>BCDL  | (psf)<br>25.0<br>15.0<br>0.0*<br>10.0  | Spacing<br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code   | 2-0-0<br>1.15<br>1.15<br>NO<br>IBC2018                                     | /TPI2014  | CSI<br>TC<br>BC<br>WB<br>Matrix-SH  | 0.88<br>0.77<br>0.89   | <b>DEFL</b><br>Vert(LL)<br>Vert(CT)<br>Horz(CT)  | in<br>-0.28<br>-0.59<br>0.04  | (loc)<br>10-12<br>10-12<br>8 | l/defl<br>>966<br>>461<br>n/a | L/d<br>240<br>180<br>n/a | PLATES<br>MT20<br>Weight: 135 lb | <b>GRIP</b><br>185/148<br>FT = 10% |   |
| LUMBER<br>TOP CHORD<br>30T CHORD<br>WEBS<br>BRACING<br>TOP CHORD<br>WEBS<br>REACTIONS<br>FORCES<br>TOP CHORD<br>BOT CHORD<br>WEBS | 2x6 DF No.2<br>2x4 HF No.2<br>2x4 HF No.2<br>2x4 HF No.2<br>Structural wood she<br>3-1-2 oc purlins, exx<br>Rigid ceiling directly<br>bracing.<br>1 Row at midpt<br>(size) 8=0-5-8, '<br>Max Horiz 14=43 (L0<br>Max Uplift 8=-179 (L<br>14=-208 (<br>Max Grav 8=1147 (I<br>14=64 (L0<br>(lb) - Maximum Corr<br>Tension<br>1-14=-49/238, 1-2=-<br>2-3=-2605/749, 3-5=<br>5-6=-4653/1485, 6-7<br>7-8=-1085/333<br>13-14=-95/63, 12-13<br>10-12=-761/2596, 9<br>8-9=-31/97<br>6-9=-826/344, 5-10<br>3-12=-781/330, 2-13<br>7-9=-893/3030, 6-10<br>3-10=-746/2116, 2-1<br>1-13=-1542/478 | athing directly applie<br>cept end verticals.<br>applied or 4-2-3 oc<br>1-13<br>13=0-5-8, 14=0-3-8<br>C 11)<br>C 12), 13=-308 (LC<br>LC 2)<br>LC 1), 13=2153 (LC<br>C 12)<br>pression/Maximum<br>489/1580,<br>e-4653/1480,<br>7=-2979/887,<br>3=-1573/487,<br>-10=-882/2976,<br>e-481/209,<br>3=-1693/535,<br>b=-633/1747,<br>12=-1230/4249, | 2)<br>3)<br>4)<br>ed or<br>5)<br>6)<br>12), 7)<br>1), 8)<br>9)<br>LO<br>1) | Provide adec<br>This truss ha<br>chord live loa<br>* This truss h<br>on the bottom<br>3-06-00 tall b<br>chord and ar<br>All bearings a<br>capacity of 4<br>Provide mecl<br>bearing plate<br>joint 14, 179<br>13.<br>This truss is<br>International<br>referenced si<br>Hanger(s) or<br>provided suff<br>lb down and<br>127 lb up at<br>selection of s<br>responsibility<br>In the LOAD<br>of the truss a<br><b>AD CASE(S)</b><br>Dead + Roc<br>Plate Increa<br>Uniform Loa<br>Vert: 1-7:<br>Concentrate | quate drainage to p<br>is been designed for<br>ad nonconcurrent w<br>has been designed<br>in chord in all areas<br>by 2-00-00 wide will<br>by other members.<br>are assumed to be<br>05 psi.<br>hanical connection<br>a capable of withsta<br>lb uplift at joint 8 ard<br>designed in accord<br>Building Code sec<br>tandard ANSI/TPI -<br>other connection de<br>other connection de<br>of others.<br>CASE(S) section,<br>are noted as front (I<br>Standard<br>of Live (balanced):<br>ase=1.15<br>ads (lb/ft)<br>=-80, 8-14=-20<br>ed Loads (lb)<br>255 (F=-127, B=- | brevent to<br>or a 10.0<br>vith any<br>for a liv<br>s where<br>I fit betw<br>HF No.<br>(by oth<br>anding 2<br>and 308<br>dance w<br>tion 230<br>1.<br>device(s)<br>bocentra<br>8, and 2<br>chord. <sup>-</sup><br>vvice(s)<br>loads af<br>F) or ba<br>Lumber | water ponding<br>o psf bottom<br>other live loa<br>e load of 20.0<br>a rectangle<br>veen the botto<br>2 crushing<br>ers) of truss t<br>lo uplift at joir<br>ith the 2018<br>06.1 and<br>) shall be<br>ated load(s) 2<br>258 lb down a<br>The design/<br>is the<br>oplied to the f<br>ck (B). | g.<br>ds.<br>Dpsf<br>om<br>t<br>s<br>t<br>t<br>58<br>ind<br>face<br>15, |                              |                               |                          | TUROMING                         | S ZHAO<br>SHINGTON                 |   |
| <ol> <li>Wind: ASC<br/>Vasd=87n</li> </ol>  | CE 7-16; Vult=110mph<br>nph: TCDI =4 2psf: BC  | i (3-second gust)<br>:DI =6 0psf: h=25ft: (  | Cat  |   |   |  |  |   |                              |                               | 5                        |                                  |                                    | 2 |

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

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



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| Job     | Truss | Truss Type       | Qty | Ply | MKM LEGACY EAST TOWN CROSSING BLD G   |
|---------|-------|------------------|-----|-----|---------------------------------------|
| 3907862 | M05   | Monopitch Girder | 2   | 2   | R81482217<br>Job Reference (optional) |





March 26,2024

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Scale = 1:52

#### [2:0-2-0,0-2-0], [3:0-1-12,0-1-8], [4:0-3-7,0-3-1], [5:0-3-7,0-2-1], [9:0-1-12,0-2-4], [10:0-3-7,0-2-1], [12:0-2-0,0-1-12], [13:0-1-12,0-2-8], [18:0-5-8,0-4-0], Plate Offsets (X, Y): [19:0-2-0,0-1-12], [20:0-2-0,0-2-0]

| Loading<br>TCLL (roof)<br>TCDL   |  | (psf)<br>25.0<br>15.0   | <b>Spacing</b><br>Plate Grip DOL<br>Lumber DOL   | 2-0-0<br>1.15<br>1.15                                       |   | CSI<br>TC<br>BC  | 0.98<br>0.70   | <b>DEFL</b><br>Vert(LL)<br>Vert(CT)   | in<br>-0.33<br>-0.67    | (loc)<br>13-15<br>13-15   | l/defl<br>>825<br>>409  | L/d<br>240<br>180   | PLATES<br>MT20<br>M18AHS  | <b>GRIP</b><br>220/195<br>169/162   |                                   |
|--|--|---|--|---|---|--|--|---|-------------------------|---|---|---|---|---|-----------------------------------|
| BCLL<br>BCDL   |  | 0.0*<br>10.0  | Rep Stress Incr<br>Code  | NO<br>IBC201  | 8/TPI2014   | WB<br>Matrix-SH  | 0.97   | Horz(CT)  | 0.04                    | 11  | n/a   | n/a   | Weight: 329 lb  | FT = 10%  |                                   |
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>BRACING<br>TOP CHORD<br>BOT CHORD<br>REACTIONS | 2x6 DF 2400<br>2x6 DF 2400<br>2x4 HF No.2<br>Structural wc<br>5-0-4 oc purl<br>Rigid ceiling<br>bracing.<br>(size) 11<br>20<br>Max Horiz 20<br>Max Uplift 11<br>19<br>Max Grav 11<br>19<br>(lb) - Maximu | DF 2.0E<br>F 2.0E<br>F 2.0E<br>bod sheat<br>directly<br>1=0-5-8,<br>0=6-5-8<br>0=48 (LC<br>1=-252 (L<br>0=-2552 (L<br>0=131 (L<br>um Comp | athing directly applied<br>cept end verticals.<br>applied or 4-11-5 oc<br>18=6-5-8, 19=6-5-8,<br>32)<br>LC 38), 18=-1118 (LC<br>LC 1), 20=-571 (LC 1<br>LC 1), 18=14725 (LC<br>C 30), 20=233 (LC 3<br>pression/Maximum | 1)<br>l or<br>2)<br>(38), 3)<br>(38), 3)<br>(1), 4)<br>(38) | 2-ply truss to<br>(0.131*x3") n<br>Top chords of<br>staggered at<br>Bottom choror<br>staggered at<br>Web connect<br>Except memil<br>All loads are<br>except if note<br>CASE(S) sec<br>provided to d<br>unless other<br>Unbalanced<br>this design.<br>Wind: ASCE<br>Vasd=87mph<br>II; Exp B; Enc | be connected toge<br>ails as follows:<br>connected as follows:<br>0-9-0 oc, 2x4 - 1 ro<br>s connected as foll<br>0-9-0 oc.<br>ted as follows: 2x4 -<br>ber 8-13 2x4 - 1 rov<br>considered equally<br>ad as front (F) or ba<br>ction. Ply to ply cont<br>listribute only loads<br>wise indicated.<br>roof live loads have<br>7-16; Vult=110mph<br>h; TCDL=4.2psf; BC<br>closed; MWFRS (er | ther wi<br>s: 2x6 -<br>bw at 0-<br>lows: 2<br>- 1 row<br>v at 0-2<br>applied<br>ck (B)<br>nection<br>noted<br>been of<br>c (3-sec<br>CDL=6.0 | th 10d<br>2 rows<br>9-0 oc.<br>x6 - 2 rows<br>at 0-4-0 oc,<br>-0 oc.<br>d to all plies,<br>face in the LC<br>s have been<br>as (F) or (B),<br>considered for<br>cond gust)<br>Dpsf; h=25ft;<br>) exterior zoi | DAD<br>or<br>Cat.<br>ne | 11) This<br>Interrefe<br>12) This<br>200<br>Cor<br>from<br>13) Har<br>prov<br>lb d<br>des<br>resp<br>LOAD (<br>1) De<br>Pla<br>Ur | s truss is<br>rnationa<br>struss h<br>0 lb. Lur<br>nect tru<br>no 0-0-0 t<br>nger(s) 0<br>vided su<br>own and<br>ign/selec<br>oonsibilit<br><b>CASE(S)</b><br>ead + RC<br>tate Increa-<br>iform Lc<br>Vert: 1-8 | desig<br>I Build<br>standa<br>as bee<br>mber E<br>ss to r<br>o 6-5-4<br>fficient<br>I 127 II<br>ction o<br>y of ot<br>of Live<br>ase=1<br>bads (I<br>3=-794 | ned in accordance<br>ing Code section<br>rd ANSI/TPI 1.<br>en designed for a<br>DOL=(1.33) Plate<br>esist drag loads<br>a for 309.7 plf.<br>r connection devit<br>to support conce<br>b up at 18-1-8 or<br>f such connection<br>hers.<br>ndard<br>e (balanced): Lur<br>.15<br>b/ft)<br>k, 8-10=-80, 11-2i<br>ads (lb) | total drag load of<br>grip DOL=(1.33)<br>along bottom chor<br>ce(s) shall be<br>entrated load(s) 22<br>h bottom chord. T<br>h device(s) is the<br>nber Increase=1.1 | <sup>rd</sup><br>58<br>Гhe<br>15, |
| TOP CHORD  | l ension<br>1-2=-192/264<br>3-4=-3114/13<br>5-6=-11281/2<br>8-9=-14484/3<br>1-20=-1115/2   | 4, 2-3=-1<br>3145, 4-4<br>2612, 6-4<br>3275, 9-<br>231  | 1282/5220,<br>5=-770/533,<br>8=-15792/3506,<br>10=-7979/1807,  | 5)  | and C-C Con<br>exposed ; en<br>members and<br>Lumber DOL<br>Provide adec  | ner (3) zone; cantile<br>d vertical left and ri<br>d forces & MWFRS<br>=1.60 plate grip DC<br>quate drainage to pr<br>MT20 plates unles  | ever lef<br>ght exp<br>for rea<br>DL=1.60<br>revent v  | t and right<br>osed;C-C for<br>ctions showr<br>)<br>water ponding<br>wise indicate  | r<br>i;<br>g.           |   | Vert: 13  | =-127   | (B)   | 4.4 .   |                                   |
| BOT CHORD  | 19-20=-5176<br>17-18=-829/<br>15-16=-3635<br>12-13=-1802   | 6/1485, 1<br>1054, 16<br>5/15766,<br>2/7973 1   | 8-19=-13137/3521,<br>-17=-2823/11259,<br>13-15=-3346/14479,<br>1-12=0/0  | 7)<br>7)<br>8)  | This truss ha<br>chord live loa<br>* This truss h   | s been designed fo<br>ad nonconcurrent w<br>has been designed f  | r a 10.0<br>ith any<br>for a liv   | ) psf bottom<br>other live loa<br>e load of 20.0  | ids.<br>Opsf            |   |   | 3   | ALAOMIN<br>VIAOF WA   | G ZHAO  |                                   |
| NEBS<br>NOTES  | 10-11=-2479<br>5-16=-471/2<br>9-12=-2240(<br>9-13=-1604/<br>4-17=-766/<br>5-17=-11924<br>3-19=-2198/8<br>6-16=-4947/   | 2.50,5,7<br>167, 8-1:<br>607, 10-<br>6796, 2-2<br>730, 4-1:<br>1/2509, 2<br>8546, 6-<br>1205, 8-  | 18=-7097/1598,<br>3=-1785/531,<br>12=-1885/8338,<br>20=-1549/5410,<br>8=-14542/3031,<br>2-19=-3347/836,<br>15=-592/279,<br>15=-533/1473  | 9 <u>]</u><br>10  | on the bottom<br>3-06-00 tall b<br>chord and an<br>All bearings a<br>capacity of 4<br>D) Provide med<br>bearing plate<br>joint 11, 1118<br>and 868 lb up  | n cnord in all areas<br>by 2-00-00 wide will<br>by other members.<br>are assumed to be<br>05 psi.<br>hanical connection<br>capable of withsta<br>3 lb uplift at joint 18.<br>plift at joint 19.  | where<br>fit betw<br>HF No.<br>(by oth<br>nding 2<br>, 571 lb  | a rectangle<br>veen the both<br>2 crushing<br>ers) of truss t<br>52 lb uplift at<br>uplift at joint   | om<br>to<br>t<br>20     |   |   |   | PROPESSIONA   | 74<br>ERED<br>LENGTHON  |                                   |

| Job     | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING BLD G   |
|---------|-------|------------|-----|-----|---------------------------------------|
| 3907862 | M06   | Monopitch  | 18  | 1   | R81482218<br>Job Reference (optional) |

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 25 09:36:47 ID:xL3mvu\_WJToi1UB7CL8mJUzZ44r-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f





#### Scale = 1:51.6

| Plate Offsets (  | e Offsets (X, Y): [2:0-1-12,0-1-12], [3:0-1-12,0-1-8], [6:0-1-12,0-1-12], [7:0-2-0,0-2-0], [9:0-2-0,0-2-0], [10:0-4-0,0-2-0], [12:0-1-12,0-1-12], [13:0-2-0,0-2-4]   |  |  |   |   |  |  |                              |                              |                               |                          |  |   |  |
|--|--|--|--|---|---|--|--|------------------------------|------------------------------|-------------------------------|--------------------------|--|---|--|
| Loading<br>TCLL (roof)<br>TCDL<br>BCLL<br>BCDL   | (psf)<br>25.0<br>15.0<br>0.0*<br>10.0  | <b>Spacing</b><br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code  | 2-0-0<br>1.15<br>1.15<br>YES<br>IBC2018      | 3/TPI2014   | CSI<br>TC<br>BC<br>WB<br>Matrix-SH  | 0.57<br>0.94<br>0.80   | DEFL<br>Vert(LL)<br>Vert(CT)<br>Horz(CT)   | in<br>-0.48<br>-0.97<br>0.12 | (loc)<br>10-12<br>10-12<br>8 | l/defl<br>>677<br>>334<br>n/a | L/d<br>240<br>180<br>n/a | PLATES<br>MT20<br>M18AHS<br>Weight: 133 lb | <b>GRIP</b><br>220/195<br>169/162<br>FT = 10% |  |
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>BRACING<br>TOP CHORD<br>REACTIONS<br>FORCES<br>TOP CHORD<br>BOT CHORD<br>WEBS  | 2x6 DF No.2<br>2x4 DF 1800F 1.6E<br>2x4 HF No.2 *Excep<br>Structural wood shea<br>2-6-10 oc purlins, e:<br>Rigid ceiling directly<br>bracing.<br>(size) 8=0-5-8, 1<br>Max Horiz 14=43 (LC<br>Max Uplift 8=-80 (LC<br>Max Grav 8=1344 (L<br>(lb) - Maximum Com<br>Tension<br>1-2=-3799/789, 2-3=<br>3-5=-5816/1162, 5-6<br>6-7=-3636/728, 1-14<br>13-14=-170/479, 12-<br>10-12=-1246/6095, 5<br>7-8=-1293/293, 2-13<br>3-12=-372/177, 5-10<br>6-9=-1055/308, 7-9=<br>6-10=-464/2277, 3-1<br>2-12=-482/2351, 1-1 | t* 0-0,15-14:2x6 DF<br>athing directly appli<br>xcept end verticals.<br>applied or 2-2-0 oc<br>4=0-5-8<br>29)<br>12), 14=-74 (LC 8)<br>C 1), 14=1325 (LC<br>pression/Maximum<br>-6101/1230,<br>=-5817/1167,<br>=-1341/287, 1-15=(<br>13=-809/3794,<br>9-10=-729/3630, 8-5<br>=-902/267,<br>=-471/181,<br>-766/3813,<br>0=-292/75,<br>3=-694/3462 | 5)<br>6)<br>ed or 7)<br>8)<br>9)<br>1)<br>LC | This truss ha<br>chord live loa<br>* This truss h<br>on the bottor<br>3-06-00 tall b<br>chord and ar<br>All bearings<br>capacity of 4<br>Provide mec<br>bearing plate<br>14 and 80 lb<br>This truss is<br>International<br>referenced s | s been designed<br>ad nonconcurrent<br>as been designe<br>n chord in all are<br>y 2-00-00 wide v<br>y other members<br>are assumed to 05 psi.<br>hanical connectio<br>capable of withs<br>uplift at joint 8.<br>designed in acco<br>Building Code se<br>tandard ANSI/TP<br>Standard | tor a 10.0<br>t with any<br>d for a live<br>as where a<br>will fit betw<br>s.<br>De HF No.1<br>Don (by othe<br>standing 7<br>ordance wi<br>ection 230<br>11. | ) pst bottom<br>other live loa<br>e load of 20.0<br>a rectangle<br>veen the botto<br>2 crushing<br>ers) of truss t<br>4 lb uplift at j<br>th the 2018<br>6.1 and | ds.<br>Dpsf<br>om<br>oint    |                              |                               |                          | LAOMING                                    | 3 ZHAC  |  |
| <ol> <li>Unbalance<br/>this design<br/>2) Wind: ASC<br/>Vasd=87n<br/>II; Exp B; I<br/>and C-CC<br/>exposed ;<br/>members<br/>Lumber D</li> <li>Provide ac<br/>4) All plates ;</li> </ol> | ed roof live loads have<br>1.<br>CE 7-16; Vult=110mph<br>1ph; TCDL=4.2psf; BC<br>Enclosed; MWFRS (en<br>Corner (3) zone; cantile<br>end vertical left and rig<br>and forces & MWFRS<br>OL=1.60 plate grip DO<br>dequate drainage to pri<br>are MT20 plates unless  | been considered for<br>(3-second gust)<br>DL=6.0psf; h=25ft;<br>velope) interior zon<br>ver left and right<br>ght exposed;C-C foi<br>for reactions showr<br>L=1.60<br>event water ponding<br>s otherwise indicate  | or<br>Cat.<br>ne<br>r<br>r<br>s;<br>g.<br>g. |   |   |  |  |                              |                              |                               |                          | THOMESSIONA                                | A PACING PACE                                 |  |

March 26,2024



| Job     | Truss | Truss Type                | Qty | Ply | MKM LEGACY EAST TOWN CROSSING BLD G   |
|---------|-------|---------------------------|-----|-----|---------------------------------------|
| 3907862 | M07   | Monopitch Supported Gable | 4   | 1   | R81482219<br>Job Reference (optional) |

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 25 09:36:47 ID:n?HaYWjvsDOVmN2l?Wj\_0LzZ41I-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





#### Scale = 1:51.6

Plate Offsets (X, Y): [1:0-2-4,0-2-0], [8:0-4-0,0-4-8], [23:0-3-0,0-3-0]

| Loading  |  | (psf)  | Spacing  | 2-0-0  |  | CSI  | 0.02   | DEFL   | in                             | (loc)   | l/defl   | L/d   | PLATES  | GRIP  |             |
|--|--|--|--|--|--|--|--|--|--------------------------------|---|--|---|---|---|-------------|
|  |  | 25.0   |  | 1.15   |  | BC   | 0.02   | Vert(LL)   | n/a                            | -   | n/a  | 999   | INT20   | 103/140   |             |
| BCU  |  | 0.0*   | Ren Stress Incr  | VES  |  | WB   | 0.02   | Horiz(TL)  | 0.00                           | 16  | n/a  | 999<br>n/a  |   |   |             |
| BCDI   |  | 10.0   | Code   | IBC201   | 8/TPI2014  | Matrix-SH  | 0.02   | 110112(112)  | 0.00                           | 10  | Π/α  | Π/α   | Weight <sup>,</sup> 112 lt  | FT = 10%  |             |
|  |  | 10.0   | 0000   | IBOLOI   | 0/11/12/011  |  |  |  |                                |   |  |   | Wolgin. 112 la  |   |             |
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>OTHERS | 2x6 DF N<br>2x4 HF N<br>2x4 HF N<br>2x4 HF N<br>2x4 HF N | lo.2<br>lo.2<br>lo.2 *Excep<br>lo.2  | t* 31-30:2x6 DF No.  | Т(<br>2<br>В   | OP CHORD   | 1-2=-21/8, 2-3=-19<br>5-6=-14/6, 6-7=-13<br>10-11=-7/3, 11-12=<br>13-14=-2/2, 14-15=<br>1-31=0/0<br>29-30=-79/90, 28-2   | //8, 3-4≕<br>//5, 7-9≕<br>=-5/2, 12<br>=-1/0, 1∹<br>29=-1/2,   | -18/7, 4-5=-16<br>-11/4, 9-10=-8<br>-13=-3/2,<br>30=-63/68,<br>27-28=-1/2,   | 6/6,<br>3/4,                   | 10) * Th<br>on tl<br>3-06<br>chor<br>11) All b<br>capa  | is truss<br>he botto<br>-00 tall<br>rd and a<br>bearings<br>acity of | has be<br>m cho<br>by 2-0<br>ny oth<br>are as<br>405 ps   | en designed fo<br>rd in all areas w<br>0-00 wide will fir<br>er members.<br>ssumed to be H<br>si. | r a live load of 20.<br>here a rectangle<br>between the bott<br>F No.2 crushing | 0psf<br>tom |
| TOP CHORD  | Structura<br>6-0-0 oc                                    | l wood she<br>purlins, ex  | athing directly applie<br>cept end verticals.  | ed or  | :  | 26-27=-1/2, 25-26=<br>22-24=-1/2, 21-22=<br>19-20=0/0_18-19=   | =-1/2, 24<br>=0/0, 20-<br>0/0_17-′   | -25=-1/2,<br>·21=0/0,<br>18=0/0_16-17  | ′=0/0                          | 12) Prov<br>bear  | /ide me<br>ring plat   | chanic<br>e capa<br>lift at id  | al connection (b<br>able of withstand<br>oint 29, 13 lb un  | y others) of truss<br>ling 2 lb uplift at jo<br>lift at joint 28, 12            | to<br>pint  |
| BOT CHORD  | Rigid ceil<br>bracing.                                   | ing directly   | applied or 10-0-0 oc   | ° W  | /EBS   | 15-16=-19/7, 2-29=   | =-157/70   | , 3-28=-162/6  | =0/0<br>6,                     | uplif   | t at join  | 27, 12  | 2 lb uplift at joint  | 26, 12 lb uplift at   | joint       |
| REACTIONS  | (size)<br>Max Horiz<br>Max Uplift                        | 16=27-0-4<br>19=27-0-4<br>22=27-0-4<br>25=27-0-4<br>30=44 (LC<br>16=-2 (LC<br>18=-13 (L<br>20=-12 (L<br>22=-12 (L<br>24=-12 (L | 4, 17=27-0-4, 18=27<br>4, 20=27-0-4, 21=27<br>4, 23=27-0-4, 24=27<br>4, 26=27-0-4, 30=27<br>C 9)<br>8, 17=-8 (LC 12),<br>C 8), 19=-12 (LC 12)<br>C 8), 21=-12 (LC 12)<br>C 8), 21=-12 (LC 12)<br>C 8), 25=-12 (LC 12)                                      | -0-4,<br>-0-4,<br>-0-4,<br>-0-4,<br>-0-4 <b>N</b><br>1)<br>),<br>1),<br>2)<br>),<br>2) | OTES<br>Unbalanced<br>this design.<br>Wind: ASCE<br>Vasd=87mpl<br>II; Exp B; En<br>and C C Ca  | 4-27 = 160/64, 5-20<br>7-24=-159/63, 8-20<br>10-21=-160/64, 11<br>12-19=-159/63, 13<br>14-17=-124/49, 1-2<br>roof live loads hav<br>7-16; Vult=110mp<br>h; TCDL=4.2psf; B<br>closed; MWFRS (   | == 160/6<br>3==160/6<br>-20==160<br>-18==168<br>29==107/<br>e been of<br>the (3-section<br>CDL=6.0<br>envelope | 14, 0-23=-100,<br>14, 9-22=-161,<br>2)/64,<br>3/67,<br>/93<br>considered foi<br>cond gust)<br>Dpsf; h=25ft; (<br>) interior zonn<br>t and right  | /64,<br>/64,<br>r<br>Cat.<br>e | <ul> <li>uplift at joint 22, 12 lb uplift at joint 21, 12 lb uplift at joint 20, 12 lb uplift at joint 19, 13 lb uplift at joint 18, 8 lb uplift at joint 17 and 17 lb uplift at joint 30.</li> <li>13) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.</li> <li>LOAD CASE(S) Standard</li> </ul> |  |   |   |   |             |
| FORCES   | Max Grav<br>(Ib) - Max<br>Tension                        | 26=-12 (L<br>28=-13 (L<br>30=-17 (L<br>16=22 (LC<br>18=210 (L<br>20=200 (L<br>22=201 (L<br>26=200 (L<br>28=202 (L<br>30=77 (LC | C 8), 27=-12 (LC 12<br>C 8), 29=-33 (LC 12<br>C 8)<br>C 1), 17=157 (LC 1),<br>LC 1), 19=198 (LC 1),<br>LC 1), 21=200 (LC 1),<br>LC 1), 23=200 (LC 1),<br>C 1), 25=200 (LC 1),<br>C 1), 27=200 (LC 1),<br>C 1), 29=203 (LC 1),<br>C 20)<br>pression/Maximum | ), 3)<br>), 3)<br>), 4)<br>), 5)<br>(, 5)<br>(, 6)<br>7)<br>8)<br>8)<br>9)             | <ul> <li>and C-C Collector</li> <li>exposed; er</li> <li>members an</li> <li>Lumber DOL</li> <li>Truss desig</li> <li>only. For stu-</li> <li>see Standard</li> <li>or consult quitage</li> <li>Provide adee</li> <li>All plates are</li> <li>Gable requiring</li> <li>Truss to be for</li> <li>braced again</li> <li>Gable studs</li> <li>This truss has</li> </ul> | A vertical left and<br>d vertical left and<br>d forces & MWFR:<br>=1.60 plate grip D<br>ned for wind loads<br>uds exposed to wir<br>d Industry Gable E<br>ialified building de:<br>quate drainage to p<br>e 2x4 MT20 unless<br>es continuous bott<br>ully sheathed from<br>1st lateral moveme<br>spaced at 2-0-0 o<br>us been designed f | or a 10.0  | voised;C-C for<br>ctions shown<br>)<br>lane of the tru<br>al to the face)<br>ils as applicat<br>s per ANS/TF<br>water ponding<br>se indicated.<br>d bearing.<br>e or securely<br>iagonal web). | ;<br>),<br>)le,<br>211.<br>J.  |   |  | and the second se | TANOMIN<br>TANOMIN<br>Service<br>TROPERS  | IG ZHIAO<br>ASHINGTON<br>DT4<br>TERED THO                                       |             |

 This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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

March 26,2024

| Job     | Truss | Truss Type                 | Qty | Ply | MKM LEGACY EAST TOWN CROSSING BLD G   |
|---------|-------|----------------------------|-----|-----|---------------------------------------|
| 3907862 | M08   | Monopitch Structural Gable | 2   | 1   | R81482220<br>Job Reference (optional) |

#### Run: 8.63 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 25 09:36:47 Page: 1 ID:7aK24bYZ7VX1WXTFJ5sK8HzZ3x4-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f DRMI 120200 120200







6-5-8

| Coolo | - 4 |      |
|-------|-----|------|
| Scale | =   | 1:20 |

| TCLL (roof)<br>TCDL<br>BCLL<br>BCDL   |   | 25.0<br>15.0<br>0.0*<br>10.0   | Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code  | 1.15<br>1.15<br>YES<br>IBC20   | 18/TPI2014   | TC<br>BC<br>WB<br>Matrix-R   | 0.04<br>0.03<br>0.02   | Vert(LL)<br>Vert(CT)<br>Horz(CT)   | n/a<br>n/a<br>0.00 | 7 | n/a<br>n/a<br>n/a | 999<br>999<br>n/a | MT20<br>Weight: 28 lb | 185/148<br>FT = 10% |  |
|---|---|--|--|--|--|--|--|--|--------------------|---|-------------------|-------------------|-----------------------|---------------------|--|
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>OTHERS<br>BRACING<br>TOP CHORD<br>BOT CHORD | 2x6 DF N<br>2x4 HF N<br>2x4 HF N<br>2x4 HF N<br>Structural<br>6-0-0 oc p<br>Rigid ceill<br>bracing. | o.2<br>o.2<br>o.2<br>o.2<br>I wood shea<br>purlins, exc<br>ing directly                  | athing directly applie<br>cept end verticals.<br>applied or 10-0-0 oc                                  | ed or<br>c<br>t<br>t<br>t<br>t<br>t<br>t<br>t<br>t<br>t<br>t<br>t<br>t<br>t<br>t<br>t<br>t<br>t<br>t | <ul> <li>i) Truss to be f<br/>braced agair</li> <li>i) Gable studs</li> <li>ii) This truss ha<br/>chord live loa</li> <li>iii) This truss f<br/>on the bottor</li> <li>3-06-00 tall t<br/>chord and ar</li> <li>iii) All bearings</li> </ul> | ully sheathed frc<br>ist lateral moven<br>spaced at 2-0-0<br>s been designed<br>id nonconcurren<br>ias been design<br>in chord in all are<br>y 2-00-00 wide<br>by other member<br>are assumed to<br>05 pai | orn one fac<br>nent (i.e. di<br>oc.<br>d for a 10.0<br>nt with any<br>ed for a live<br>eas where a<br>will fit betw<br>rs.<br>be HF No.1 | e or securely<br>(agonal web)<br>( psf bottom<br>other live loa<br>e load of 20.0<br>a rectangle<br>(een the botto<br>2 crushing | ds.<br>Opsf<br>om  |   |                   |                   |                       |                     |  |
| REACTIONS   | (size)<br>Max Horiz<br>Max Uplift<br>Max Grav   | 7=6-5-8, 8<br>10=6-5-8<br>10=31 (LC<br>7=-5 (LC<br>12), 10=-4<br>7=103 (LC<br>(LC 1), 10 | 8=6-5-8, 9=6-5-8,<br>C 9)<br>9), 8=-23 (LC 8), 9=-<br>9 (LC 8)<br>C 1), 8=235 (LC 1), 9<br>=203 (LC 1) | 1<br>1 (LC<br>9=164 <sup>1</sup>   | <ol> <li>Provide mec<br/>bearing plate<br/>10, 5 lb uplift<br/>uplift at joint</li> <li>This truss is<br/>International<br/>referenced s</li> </ol>  | b) psi.<br>hanical connecti<br>capable of with<br>at joint 7, 1 lb u<br>8.<br>designed in acco<br>Building Code s<br>iandard ANSI/T  | ion (by othe<br>standing 4<br>plift at joint<br>ordance wi<br>section 230  | ers) of truss t<br>9 lb uplift at j<br>9 and 23 lb<br>th the 2018<br>6.1 and   | o<br>oint          |   |                   |                   |                       |                     |  |
| FORCES  | (lb) - Max<br>Tension   | imum Com   | pression/Maximum   | L  | OAD CASE(S)  | Standard   |  |  |                    |   |                   |                   |                       |                     |  |
| TOP CHORD   | 2-10=-18<br>4-5=-8/11   | 5/135, 1-2=<br>, 5-6=-7/9,   | 0/2, 2-3=-9/6, 3-4=-8<br>6-7=-58/51  | 8/9,   |  |  |  |  |                    |   |                   |                   |                       |                     |  |
| BOT CHORD<br>WEBS   | 9-10=-35/<br>3-9=-126/  | ′38, 8-9=-3<br>′108, 4-8=-   | 5/38, 7-8=-35/38<br>188/148, 5-7=-88/11  | 7  |  |  |  |  |                    |   |                   |                   |                       |                     |  |
| NOTES   |   |  |  |  |  |  |  |  |                    |   |                   |                   |                       | -                   |  |

 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

- 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) Provide adequate drainage to prevent water ponding.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent oullapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI Vauility** Criteria and DSP-22 available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcscomponents.com)



March 26,2024

THAOMING ZHAO

REGISTERED THE

| Job     | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING BLD G   |
|---------|-------|------------|-----|-----|---------------------------------------|
| 3907862 | M09   | Monopitch  | 10  | 1   | R81482221<br>Job Reference (optional) |

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 25 09:36:47 ID:iC?q\_zNm5x?iE2fsGkU5vTzZ2eg-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





#### Scale = 1:53.5

| Plate Offsets (   | X, Y): [3:0-2-4,0-2-0],   | [7:0-1-12,0-1-8], [8:0   | 0-2-8,0-2-8                                    | 5], [9:0-2-0,0-1·  | -4], [10:0-2-0,0-2-0   | )], [13:0-  | 2-4,0-2-0]  |                              |                              |                               |                          |                                  |                                    |  |
|---|---|--|--|--|--|---|---|------------------------------|------------------------------|-------------------------------|--------------------------|----------------------------------|------------------------------------|--|
| <b>Loading</b><br>TCLL (roof)<br>TCDL<br>BCLL<br>BCDL   | (psf)<br>25.0<br>15.0<br>0.0*<br>10.0   | Spacing<br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code   | 2-0-0<br>1.15<br>1.15<br>YES<br>IBC2018        | 3/TPI2014  | <b>CSI</b><br>TC<br>BC<br>WB<br>Matrix-SH  | 0.69<br>0.62<br>0.89  | DEFL<br>Vert(LL)<br>Vert(CT)<br>Horz(CT)  | in<br>-0.24<br>-0.49<br>0.03 | (loc)<br>11-13<br>11-13<br>9 | l/defl<br>>999<br>>560<br>n/a | L/d<br>240<br>180<br>n/a | PLATES<br>MT20<br>Weight: 138 lb | <b>GRIP</b><br>185/148<br>FT = 10% |  |
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>BRACING<br>TOP CHORD<br>BOT CHORD<br>REACTIONS                          | 2x6 DF No.2<br>2x4 HF No.2<br>2x4 HF No.2<br>Structural wood shea<br>3-7-9 oc purlins, exc<br>Rigid ceiling directly<br>bracing.<br>(size) 9=0-5-8, 1<br>Max Horiz 15=43 (LC<br>Max Upliff 9=-60 (LC<br>15=-42 (LI<br>Max Grav 9=1027 (L<br>15=-5 (LC | athing directly applie<br>cept end verticals.<br>applied or 4-7-4 oc<br>4=0-5-8, 15=0-3-8<br>2 11)<br>12), 14=-113 (LC 12<br>C 3)<br>C 1), 14=1952 (LC 2<br>9)       | 3)<br>4)<br>(d or 5)<br>6)<br>2), 7)<br>1), LC | This truss ha<br>chord live loa<br>* This truss h<br>on the bottor<br>3-06-00 tall b<br>chord and ar<br>All bearings a<br>capacity of 4<br>Provide mec<br>bearing plate<br>15, 60 lb upli<br>This truss is<br>International<br>referenced s<br>DAD CASE(S) | is been designed f<br>ad nonconcurrent v<br>has been designed<br>in chord in all area:<br>by 2-00-00 wide wi<br>by other members.<br>are assumed to be<br>05 psi.<br>hanical connectior<br>e capable of withsta<br>ft at joint 9 and 11<br>designed in accord<br>Building Code set<br>tandard ANSI/TPI<br>Standard | or a 10.0<br>with any<br>for a liv<br>s where<br>Il fit betw<br>HF No.<br>(by oth<br>anding 4<br>3 lb uplit<br>dance w<br>ttion 230<br>1. | <ul> <li>psf bottom<br/>other live loa</li> <li>e load of 20.0</li> <li>a rectangle</li> <li>veen the botto</li> <li>2 crushing</li> <li>ers) of truss t</li> <li>2 lb uplift at j</li> <li>t at joint 14.</li> <li>tith the 2018</li> <li>6.1 and</li> </ul> | ds.<br>Dpsf<br>om<br>o       |                              |                               |                          |                                  |                                    |  |
|   | (lb) - Maximum Com<br>Tension   | pression/Maximum   |  |  |  |   |   |                              |                              |                               |                          |                                  |                                    |  |
| TOP CHORD   | 2-15=0/133, 1-2=0/2<br>3-4=-2283/430, 4-6=<br>6-7=-3606/680, 7-8=   | , 2-3=-267/1339,<br>-3604/675,<br>-2576/497, 8-9=-967  | 7/216  |  |  |   |   |                              |                              |                               |                          |                                  |                                    |  |
| BOT CHORD   | 14-15=-73/48, 13-14<br>11-13=-442/2275, 10<br>9-10=-25/90   | =-1332/264,<br>)-11=-491/2571,   |  |  |  |   |   |                              |                              |                               |                          |                                  |                                    |  |
| WEBS  | 3-14=-1538/384, 4-1<br>6-11=-491/178, 7-10<br>8-10=-490/2605, 7-1<br>4-11=-247/1360, 3-1<br>2-14=-1299/267  | 3=-666/216,<br>=-700/222,<br>1=-200/1075,<br>3=-677/3684,  |  |  |  |   |   |                              |                              |                               | ź                        | ALAOMIN<br>ALAOF WA              | S ZHAO<br>SHING                    |  |
| NOTES<br>1) Wind: ASC<br>Vasd=87n<br>II; Exp B; I<br>and C-C C<br>exposed ;<br>members<br>Lumber D<br>2) Provide ac | CE 7-16; Vult=110mph<br>nph; TCDL=4.2psf; BCI<br>Enclosed; MWFRS (en<br>Corner (3) zone; cantile<br>end vertical left and rig<br>and forces & MWFRS i<br>OL=1.60 plate grip DO<br>dequate drainage to pre   | (3-second gust)<br>DL=6.0psf; h=25ft; C<br>velope) exterior zon<br>ver left and right<br>ht exposed;C-C for<br>for reactions shown;<br>L=1.60<br>event water ponding | Cat.<br>e                                      |  |  |   |   |                              |                              |                               |                          | PROPESSIONA                      | TA<br>ERED<br>LENGTHON             |  |

#### March 26,2024



| Job     | Truss | Truss Type       | Qty | Ply | MKM LEGACY EAST TOWN CROSSING BLD G   |
|---------|-------|------------------|-----|-----|---------------------------------------|
| 3907862 | M10   | Monopitch Girder | 2   | 2   | R81482222<br>Job Reference (optional) |

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 25 09:36:47 ID:Xew4Tgh3tC15glQtB1?8Y7zZ26h-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f







Scale = 1:51.8

| Plate Offsets (  | X, Y): [3:0-2-4,0-2-4],  | , [4:0-1-12,0-2-0], [10  | :0-2-0,0-2                                    | -0], [12:0-2-0,0  | -1-8], [13:0-2-12,  | 0-1-8], [1   | 6:0-3-12,0-2-4   | 4], [17:0                             | -1-12,0-   | 1-12], [1  | 8:0-3-6   | 3,0-3-8], [19:0-1  | -12,0-1-8]  |
|--|--|--|---|---|---|--|--|---------------------------------------|--|--|---|--|---|
| Loading<br>TCLL (roof)<br>TCDL<br>BCLL<br>BCDL   | (psf)<br>25.0<br>15.0<br>0.0*<br>10.0  | Spacing<br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code   | 2-0-0<br>1.15<br>1.15<br>NO<br>IBC2018        | 8/TPI2014   | CSI<br>TC<br>BC<br>WB<br>Matrix-SH  | 0.62<br>0.65<br>0.95   | DEFL<br>Vert(LL)<br>Vert(CT)<br>Horz(CT)   | in<br>-0.17<br>-0.34<br>0.02          | (loc)<br>13-15<br>13-15<br>13-15<br>11   | l/defl<br>>999<br>>798<br>n/a  | L/d<br>240<br>180<br>n/a  | PLATES<br>MT20<br>Weight: 328 II   | <b>GRIP</b><br>185/148<br>b FT = 10%  |
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>BRACING<br>TOP CHORD<br>BOT CHORD<br>REACTIONS | 2x6 DF No.2 *Excep<br>2.0E<br>2x6 DF No.2<br>2x4 HF No.2<br>Structural wood she<br>6-0-0 oc purlins, ex<br>Rigid ceiling directly<br>bracing.<br>(size) 11=0-4-0,<br>20=6-5-8<br>Max Horiz 20=66 (L0<br>Max Uplift 11=-170 (<br>19=-121 (<br>Max Grav 11=1385 (<br>19=364 (L0)) - Maximum Corr   | ot* 1-7:2x6 DF 2400F<br>athing directly applie<br>cept end verticals.<br>applied or 5-3-4 oc<br>, 18=6-5-8, 19=6-5-8,<br>C 32)<br>(LC 38), 18=-913 (LC<br>(LC 66), 20=-233 (LC<br>(LC 65), 20=315 (LC 3<br>poression/Maximum | 1)<br>d or<br>2)<br>38),<br>51)<br>1),<br>34) | 2-ply truss to<br>(0.131*x3") r<br>Top chords c<br>oc, 2x6 - 2 rc<br>Bottom chorr<br>staggered at<br>Web connec<br>0-9-0 oc, Exc<br>All loads are<br>except if nott<br>CASE(S) sec<br>provided to c<br>unless other<br>Wind: ASCE<br>Vasd=87mpf<br>II; Exp B; En<br>and C-C Cor<br>exposed ; en   | b be connected to<br>alia as follows:<br>connected as follows:<br>connected as follows:<br>dows staggered at<br>dows staggered at<br>down as follows: 2x<br>considered equa<br>ed as front (F) or<br>tion. Ply to ply co<br>distribute only loa-<br>wise indicated.<br>7-16; Vult=110m<br>n; TCDL=4.2psf; I<br>closed; MWFRS<br>ner (3) zone; can<br>d vertical left ano<br>d vertical left ano | gether wi<br>ows: 2x4 +<br>0-9-0 oc.<br>follows: 2<br>(4 - 2 row<br>5 2x4 - 1<br>Illy applie<br>back (B)<br>onnection<br>ds noted<br>ph (3-sec<br>BCDL=6.<br>(envelope<br>tillever lef<br>f right exp<br>20 for are  | th 10d<br>th 10d<br>th 10d<br>th 10d<br>trow at 0-9-0 cd<br>to all plies,<br>face in the LC<br>s have been<br>as (F) or (B),<br>cond gust)<br>Opsf; h=25ft; (f)<br>opsf; h=25ft; (f)<br>t and right<br>osed; C-C for | -0<br>lt<br>Doc.<br>DAD<br>Cat.<br>he | 10) This<br>200<br>Cor<br>from<br>11) Har<br>pro<br>lb d<br>des<br>resy<br><b>LOAD (</b><br>1) De<br>Pli<br>Ur<br>Ur | s truss h<br>10 lb. Lun<br>nect tru<br>n 0-0-0 t<br>nger(s) c<br>vided su<br>lown and<br>ign/sele<br>ponsibili<br><b>CASE(S</b><br>ead + Rc<br>ate Increa-<br>niform Lc<br>Vert: 1-1-<br>poncentra<br>Vert: 15 | as beember D<br>mber D<br>ss to r<br>o $6-5-{}$<br>or other<br>fficient<br>d 191 II<br>ction o<br>ty of ot<br>boats (II<br>6=-722<br>ted Lo<br>=-38 (II | en designed for<br>DOL=(1.33) Plat<br>esist drag loads<br>8 for 309.7 plf.<br>r connection de<br>t to support con<br>b up at 13-5-4<br>f such connecti<br>hers.<br>ndard<br>e (balanced): Lu<br>.15<br>b/ft)<br>2, 6-10=-80, 11-<br>ads (Ib)<br>B) | a total drag load of<br>te grip DOL=(1.33)<br>s along bottom chord<br>vice(s) shall be<br>centrated load(s) 229<br>on bottom chord. The<br>ion device(s) is the<br>umber Increase=1.15,<br>20=-20 |
| TOP CHORD  | Tension<br>1-20=-254/279, 1-2=<br>2-3=-2497/7283, 3-4<br>4-5=-6321/2095, 5-6<br>6-8=-6250/2053, 8-5<br>9-10=-3841/1023, 1  | =-1216/2658,<br>4=-1661/960,<br>5=-6311/1898,<br>9=-6250/1728,<br>0-11=-1293/358   | 4)<br>5)<br>6)                                | members and forces & MWFRS for reactions shown;<br>Lumber DOL=1.60 plate grip DOL=1.60<br>Provide adequate drainage to prevent water ponding.<br>This truss has been designed for a 10.0 psf bottom<br>chord live load nonconcurrent with any other live loads.<br>* This truss has been designed for a live load of 20.0psf<br>on the bottom chord in all aces where a rectangle |   |  |  |                                       |  |  |   |  | La La   |
| WEBS<br>NOTES  | <ul> <li>13-20904;923, 16-17=-979/1621,<br/>15-16=-2215/6903, 13-15=-2215/6903,<br/>12-13=-1015/3836, 11-12=-50/149</li> <li>9-12=-1073/387, 10-12=-1012/3863,<br/>8-13=-403/173, 9-13=-859/2505,<br/>6-15=-195/379, 6-13=-986/388,<br/>5-16=-1532/360, 6-16=-893/534,<br/>3-17=-2175/9064, 4-16=-1474/5520,<br/>2-19=-214/305, 1-19=-2804/1270,<br/>2-18=-4921/1566</li> <li>3-06-00 tall by 2-00-00 wide will fit<br/>chord and any other members.</li> <li>All bearings are assumed to be HI<br/>capacity of 405 psi.</li> <li>Provide mechanical connection (b<br/>bearing plate capable of withstanc<br/>joint 20, 170 lb uplift at joint 11, 91<br/>and 121 lb uplift at joint 19.</li> <li>This truss is designed in accordar<br/>International Building Code sectio<br/>referenced standard ANSI/TPI 1.</li> </ul> |  |   |   | vill fit betv<br>s.<br>pe HF No.<br>tranding 2<br>1, 913 lb<br>rdance w<br>ection 230<br>I 1.   | veen the botto<br>2 crushing<br>ers) of truss t<br>133 lb uplift at<br>133 lb uplift at<br>131 lb uplift a | om<br>0<br>8   |                                       |  |  | PROFILESSION  | NG ZHLAO<br>TASHINGTON<br>TTERED OF<br>AL ENGINE   |   |

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)

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| Job     | Truss | Truss Type       | Qty | Ply | MKM LEGACY EAST TOWN CROSSING BLD G   |
|---------|-------|------------------|-----|-----|---------------------------------------|
| 3907862 | M11   | Monopitch Girder | 10  | 1   | R81482223<br>Job Reference (optional) |









Scale = 1:52

| 'late Offsets (X, Y): [2:0-1-12,0-1-8], [7:0-1-12,0-1-8], [8:0-3-7,0-2-0], [9:Edge,0-3-8], [10:0-3-8,0-1-12], [11:0-3-4,0-1-12], [14:0-3-0,0-2-4], [15:0-3-8,0-2-0], [16:0-9-4,0-3-0] |  |  |   |  |   |   |   |   |                              |                               |   |  |   |  |
|---|--|--|---|--|---|---|---|---|------------------------------|-------------------------------|---|--|---|--|
| Loading<br>TCLL (roof)<br>TCDL<br>BCLL<br>BCDL  | (psf)<br>25.0<br>15.0<br>0.0*<br>10.0  | Spacing<br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code   | 2-0-0<br>1.15<br>1.15<br>NO<br>IBC2018                                | 8/TPI2014  | CSI<br>TC<br>BC<br>WB<br>Matrix-SH  | 0.70<br>0.68<br>0.95  | DEFL<br>Vert(LL)<br>Vert(CT)<br>Horz(CT)  | in<br>-0.59<br>-1.24<br>0.09                              | (loc)<br>11-13<br>11-13<br>9 | l/defl<br>>585<br>>278<br>n/a | L/d<br>240<br>180<br>n/a  | PLATES<br>MT20<br>M18AHS<br>Weight: 164 lb | <b>GRIP</b><br>220/195<br>169/162<br>FT = 10% |  |
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>BRACING<br>TOP CHORD<br>BOT CHORD<br>REACTIONS<br>FORCES<br>TOP CHORD<br>BOT CHORD<br>BOT CHORD<br>WEBS                                   | 2x6 DF No.2 *Excep<br>2.0E<br>2x6 DF 2400F 2.0E<br>2x4 HF No.2 *Excep<br>1.6E<br>Structural wood she<br>2-3-4 oc purlins, ex<br>Rigid ceiling directly<br>bracing.<br>(size) 9=0-5-8, 7<br>Max Horiz 16=41 (LC<br>Max Uplift 9=-191 (L<br>Max Grav 9=1554 (I<br>(lb) - Maximum Com<br>Tension<br>1-16=-1418/393, 1-2<br>2-3=-8618/2422, 3-4<br>4-6=-7468/2002, 6-7<br>7-8=-4481/1132, 8-5<br>15-16=-197/551, 14<br>13-14=-2553/8827, 1<br>0-11=-1133/4475, 9<br>2-15=-958/361, 3-14<br>6-11=-404/160, 7-10<br>8-10=-1127/4498, 7<br>2-14=-811/2606, 1-1<br>4-13=-197/510, 4-14<br>4-11=-1556/552 | t* 1-5:2x6 DF 2400F<br>t* 1-15:2x4 DF 1800<br>athing directly applie<br>cept end verticals.<br>applied or 6-6-3 oc<br>16=0-5-8<br>C 9)<br>C 12), 16=-208 (LC 8<br>C 1), 16=1573 (LC 1<br>pression/Maximum<br>2=-6219/1624,<br>t=-8615/2424,<br>r=-7469/2006,<br>b=-1451/385<br>-15=-1672/6211,<br>11-13=-2553/8827,<br>9=10=-55/174<br>t=-275/127,<br>b=-123/410,<br>-11=-924/3162,<br>15=-1514/5745,<br>t=-311/147, | 2)<br>3)<br>4)<br>F 5)<br>d or 6)<br>7)<br>3)<br>9)<br>10<br>LC<br>1) | Provide ader<br>All plates are<br>This truss ha<br>chord live loa<br>* This truss lo<br>on the bottoo<br>3-06-00 tall l<br>chord and ar<br>All bearings<br>capacity of 4<br>Provide mecu<br>joint 16 and<br>This truss is<br>International<br>referenced s<br>Hanger(s) or<br>provided suf<br>lb down and<br>115 lb up at<br>selection of<br>responsibility<br>of the truss a<br><b>AD CASE(S)</b><br>Dead + Ro<br>Plate Increa<br>Uniform Lo<br>Vert: 13- | quate drainage to p<br>a MT20 plates unle<br>as been designed f<br>ad nonconcurrent v<br>has been designed<br>m chord in all areas<br>by 2-00-00 wide wi<br>yy other members.<br>are assumed to be<br>05 psi.<br>hanical connection<br>e capable of withsta<br>191 lb uplift at joint<br>designed in accorr<br>Building Code sec<br>tandard ANSI/TPI<br>other connection of<br>ficient to support of<br>115 lb up at 13-5-<br>13-5-4 on bottom<br>such connection de<br>y of others.<br>CASE(S) section,<br>are noted as front (<br>Standard<br>of Live (balanced):<br>ase=1.15<br>ads (lb/ft)<br>=-80, 9-16=-20<br>ed Loads (lb) | prevent i<br>ss other<br>or a 10.0<br>with any<br>for a liv<br>s where<br>Il fit betw<br>a HF No.<br>(by oth<br>anding 2<br>9.<br>dance w<br>tion 230<br>1.<br>device(s)<br>oncentra<br>4, and 2<br>chord.<br>Evice(s)<br>loads a<br>F) or ba<br>Lumber | water pondin,<br>wise indicate<br>0 psf bottom<br>other live loa<br>e load of 20.0<br>a rectangle<br>veen the botto<br>2 crushing<br>ers) of truss t<br>08 lb uplift at<br>108 lb uplift at<br>208 lb uplift at<br>108 lb uplift at<br>108 lb uplift at<br>108 lb down a<br>The design/<br>is the<br>000 lb down at<br>The design/<br>is the<br>100 lb down at<br>100 | g.<br>ed.<br>lds.<br>Opsf<br>om<br>to<br>t<br>face<br>15, |                              |                               | Level and the second | THA OMING                                  | ZHAO<br>SHUNCTON                              |  |
| 1) Wind: AS   | CE 7-16; Vult=110mph   | (3-second gust)  |   |  |   |   |   |   |                              |                               | 2   |  |   |  |

Wind: ASCE 7-16; Vulter 110mpn (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

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



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| Job     | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING BLD G   |
|---------|-------|------------|-----|-----|---------------------------------------|
| 3907862 | M12   | Monopitch  | 2   | 1   | R81482224<br>Job Reference (optional) |

Run: 8,63 S Nov 1 2023 Print: 8,630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 25 09:36:48 ID:7Gaf3iWf7CZ2nGYaT3JE3NzZ2C4-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



March 26,2024

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Scale = 1:52

| Plate Offsets (   | (X, Y): [1:0·  | -2-12,0-2-0   | ], [9:0-4-0,0-4-8], [1  | 5:0-2-0,0-2-   | -0], [17:0-2-12   | 2,0-3-0], [22:0-3-0  | 0,0-3-0], [2   | 9:0-2-12,0-3-   | 0], [30:0                              | -3-0,0-0   | -4]  |  |   |   |                        |
|---|--|---|---|--|---|--|--|---|--|--|--|--|---|---|------------------------|
| Loading<br>TCLL (roof)<br>TCDL<br>BCLL<br>BCDL  |  | (psf)<br>25.0<br>15.0<br>0.0*<br>10.0   | <b>Spacing</b><br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code   | 2-0-0<br>1.15<br>1.15<br>NO<br>IBC2018   | 3/TPI2014   | CSI<br>TC<br>BC<br>WB<br>Matrix-SH   | 0.33<br>0.34<br>0.48   | <b>DEFL</b><br>Vert(LL)<br>Vert(TL)<br>Horiz(TL)  | in<br>n/a<br>n/a<br>-0.02              | (loc)<br>-<br>-<br>23  | l/defl<br>n/a<br>n/a<br>n/a  | L/d<br>999<br>999<br>n/a   | PLATES<br>MT20<br>Weight: 119 lb  | <b>GRIP</b><br>185/148<br>FT = 10%  |                        |
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>OTHERS<br>BRACING<br>TOP CHORD<br>BOT CHORD | 2x6 DF N<br>2x4 HF N<br>2x4 HF N<br>2x4 HF N<br>Structura<br>5-4-10 oc<br>Rigid ceil<br>bracing. | 0.2<br>0.2<br>0.2<br>0.2<br>I wood shea<br>purlins, e:<br>ing directly  | athing directly appli<br>xcept end verticals.<br>applied or 4-2-3 oc  | TC<br>ied or BC  | OF CHORD  | 1-30=-1357/132<br>2-3=-1872/1853<br>4-5=-1300/1276<br>6-7=-718/699, 7<br>10-11=-776/765<br>12-13=-1355/13<br>14-15=-2061/20<br>29-30=-265/210<br>27-28=-1580/150<br>25-26=-1001/99   | 7, 1-2=-21/<br>, 3-4=-159:<br>, 5-6=-100:<br>-8=-427/41<br>, 11-12=-10<br>46, 13-14=<br>54, 15-16=<br>, 28-29=-11<br>69, 26-27=<br>0, 24-25=-                        | 45/2120,<br>2/1564,<br>3/987,<br>0, 8-10=-487<br>066/1056,<br>-1645/1637,<br>-1218/1211<br>369/1829,<br>-1290/1279,<br>711/700,                                   | 7/469,                                 | 8) Thi<br>cho<br>9) * T<br>on<br>3-0<br>cho<br>10) All<br>cap<br>11) Pro<br>bea                    | s truss h<br>ord live lo<br>his truss<br>the botto<br>6-00 tall<br>ord and a<br>bearings<br>bacity of<br>wride met<br>aring plat   | as bee<br>bad not<br>has be<br>m cho<br>by 2-0<br>ny oth<br>are as<br>405 ps<br>chanic<br>re capa  | en designed for a<br>nconcurrent with<br>een designed for<br>rd in all areas w<br>00-00 wide will fit<br>ier members.<br>ssumed to be Hf<br>si.<br>al connection (b<br>able of withstand  | 10.0 psf bottom<br>any other live load<br>a live load of 20.0<br>here a rectangle<br>between the botto<br><sup>5</sup> No.2 crushing<br>y others) of truss to<br>ing 1340 lb uplift a   | ds.<br>Ipsf<br>Im<br>o |
| REACTIONS   | (size)<br>Max Horiz<br>Max Uplift  | 16=29-0-4<br>19=29-0-4<br>22=29-0-4<br>25=29-0-4<br>30=43 (LO<br>16=-1192<br>37), 18=-1<br>37), 20=-1<br>37), 26=-1<br>37), 26=-1<br>37), 26=-1<br>37), 28=-1<br>37), 28=-1 | 4, 17=29-0-4, 18=29<br>4, 20=29-0-4, 21=29<br>4, 23=29-0-4, 24=29<br>4, 26=29-0-4, 27=29<br>4, 29=29-0-4, 30=29<br>2 36)<br>(LC 30), 17=-1240<br>12 (LC 30), 19=-13<br>17 (LC 38), 21=-25<br>30 (LC 38), 23=-24<br>17 (LC 38), 25=-13<br>12 (LC 29), 27=-12<br>3 (LC 30), 29=-129<br>340 (L 20) | 9-0-4,<br>9-0-4,<br>9-0-4,<br>9-0-4,<br>(LC<br>(LC<br>(LC<br>(LC<br>(LC<br>(LC<br>(LC<br>(LC<br>(LC<br>(LC | EBS<br>DTES<br>Wind: ASC<br>Vasd=87mµ<br>II: Exp B; E   | 23-24=-422/411<br>20-21=-774/763,<br>18-19=-1353/13<br>16-17=-398/396<br>2-29=-167/79, 3<br>5-26=-160/61, 6<br>8-23=-159/73, 9<br>11-20=-159/65,<br>13-18=-141/57,<br>1-29=-2405/245-<br>E 7-16; Vult=110r<br>ph; TCDL=4.2psf;<br>nclosed; MWFRS | , 21-23=-44<br>, 19-20=-11<br>42, 17-18=<br>-28=-159/6<br>-25=-160/6<br>-22=-160/7<br>12-19=-16<br>14-17=-22<br>4, 15-17=-2<br>mph (3-sec<br>BCDL=6.(<br>6 (envelope | 35/473,<br>064/1052,<br>-1642/1631,<br>9, 4-27=-160<br>2, 7-24=-160<br>9, 10-21=-16<br>3/62,<br>7/95,<br>2349/2338<br>cond gust)<br>0psf; h=25ft;<br>exterior zor | 0/63,<br>1/66,<br>11/74,<br>Cat.<br>ne | joir<br>29,<br>upl<br>24,<br>upl<br>19,<br>12) Thi<br>Inte<br>refe<br>13) Thi<br>420<br>Co<br>from | t 30, 119<br>13 lb up<br>ift at join<br>24 lb up<br>ift at join<br>12 lb up<br>s truss is<br>ernationa<br>ernationa<br>s truss h<br>00 lb. Lur<br>nnect tru<br>n 0-0-0 t | 92 lb u<br>lift at j<br>t 26, 1:<br>lift at j<br>t 21, 1<br>lift at j<br>s desig<br>l Build<br>standa<br>as bee<br>mber [<br>ss to r<br>o 29-0 | plift at joint 16, 1<br>joint 28, 12 lb upift at joint<br>joint 23, 30 lb upift at joint<br>joint 23, 30 lb upift<br>7 lb uplift at joint<br>joint 18 and 1240<br>med in accordan<br>ing Code section<br>and ANSI/TPI 1.<br>an designed for a<br>OOL=(1.33) Platt<br>esist drag loads<br>i-4 for 144.7 plf. | 296 lb uplift at joint<br>ift at joint 27, 12 lb<br>25, 17 lb uplift at joint<br>22, 13 lb uplift at joint<br>20, 13 lb uplift at joint<br>10 uplift at joint 17<br>ce with the 2018<br>1 2306.1 and<br>1 total drag load of<br>9 grip DOL=(1.33)<br>along bottom chore | t<br>oint<br>oint<br>' |
|   | Max Grav   | 16=1242 (<br>50), 18=1<br>20=199 (L<br>22=200 (L<br>24=200 (L<br>26=200 (L<br>28=199 (L<br>30=1379 (  | LC 49), 17=1371 (I<br>75 (LC 1), 19=205 (<br>C 1), 21=201 (LC<br>C 1), 23=199 (LC<br>C 1), 25=200 (LC<br>C 1), 27=200 (LC<br>C 1), 27=200 (LC<br>C 1), 29=1393 (LC<br>(LC 36)   | LC<br>(LC 1),<br>1),<br>1),<br>2),<br>2),<br>49),  | and C-C Co<br>exposed ; e<br>members a<br>Lumber DC<br>Truss desig<br>only. For s<br>see Standa<br>or consult o | orner (3) zone; ca<br>end vertical left an<br>nd forces & MWF<br>PL=1.60 plate grip<br>gned for wind loa-<br>tuds exposed to v<br>rd Industry Gable<br>qualified building of   | ntilever lef<br>ad right exp<br>RS for rea<br>DOL=1.60<br>ds in the pl<br>vind (norm<br>End Deta<br>designer as  | t and right<br>bosed;C-C for<br>ctions shown<br>ane of the tru<br>al to the face<br>ils as applica<br>s per ANSI/TI   | n;<br>uss<br>),<br>ble,<br>PI 1.       |  |  |  | TUNOMIN<br>STATE DE W   | G ZHAO  |                        |
| FORCES  | (lb) - Max<br>Tension  | timum Com   | pression/Maximum  | 3)<br>4)<br>5)<br>6)   | Provide ade<br>All plates au<br>Gable requi<br>Truss to be<br>braced aga  | equate drainage t<br>re 2x4 MT20 unle<br>ires continuous b<br>fully sheathed fro<br>inst lateral mover   | o prevent v<br>ess otherwi<br>ottom chor<br>om one fac<br>ment (i.e. d   | vater ponding<br>se indicated.<br>d bearing.<br>e or securely<br>iagonal web)   | g.<br>,                                |  |  | 1  | POFESSION   | TERED AND   | <b>,</b>               |

7) Gable studs spaced at 2-0-0 oc.

| Job                                | Truss                       | Truss Type          | Qty            | Ply        | MKM LEGACY EAST TOWN CROSSING B                 | LD G      |
|------------------------------------|-----------------------------|---------------------|----------------|------------|---|-----------|
| 3907862                            | M12                         | Monopitch           | 2              | 1          | Job Reference (optional)                        | R81482224 |
| Builders FirstSource (Arlington, V | VA), Arlington, WA - 98223, | Run: 8.63 S Nov 1 2 | 023 Print: 8.6 | 30 S Nov 1 | 2023 MiTek Industries, Inc. Mon Mar 25 09:36:48 | Page: 2   |

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 25 09:36:48 ID:7Gaf3iWf7CZ2nGYaT3JE3NzZ2C4-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f PRMU20240404

LOAD CASE(S) Standard



| Job     | Truss | Truss Type                 | Qty | Ply | MKM LEGACY EAST TOWN CROSSING BLD G   |
|---------|-------|----------------------------|-----|-----|---------------------------------------|
| 3907862 | N01   | Monopitch Structural Gable | 2   | 1   | R81482225<br>Job Reference (optional) |

Run: 8,63 S Nov 1 2023 Print: 8,630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 25 09:36:48 ID:Ic8cvCbnUv7Kwrn9jz5wbCzZ1E?-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f







Scale = 1:43.9

Plate Offsets (X, Y): [8:0-4-0,0-4-8], [18:0-3-0,0-3-0]

| `           |                                  |                             |                   |                                  |  |            |                              |              |       |           |          |                   |                    |   |
|-------------|----------------------------------|-----------------------------|-------------------|----------------------------------|--|------------|------------------------------|--------------|-------|-----------|----------|-------------------|--------------------|---|
| Loading     | (psf)                            | Spacing                     | 2-0-0             |                                  | CSI  |            | DEFL                         | in           | (loc) | l/defl    | L/d      | PLATES            | GRIP               | _ |
| TCLL (roof) | 25.0                             | Plate Grip DOL              | 1.15              |                                  | тс   | 0.28       | Vert(LL)                     | -0.01        | 21-22 | >999      | 240      | MT20              | 185/148            |   |
| TCDL        | 15.0                             | Lumber DOL                  | 1.15              |                                  | BC   | 0.31       | Vert(CT)                     | -0.04        | 21-22 | >999      | 180      |                   |                    |   |
| BCLL        | 0.0*                             | Rep Stress Incr             | NO                |                                  | WB   | 0.36       | Horz(CT)                     | 0.01         | 20    | n/a       | n/a      |                   |                    |   |
| BCDL        | 10.0                             | Code                        | IBC201            | 8/TPI2014                        | Matrix-SH                                      |            |                              |              |       |           |          | Weight: 119 lb    | FT = 10%           |   |
|             |                                  | -                           | N                 | EBS 3                            | 3-25=-1064/0. 7-20                             | =-703/0    | . 5-23=-86/9.                |              | 1) D  | ead + Ro  | of Live  | e (balanced): Lum | ber Increase=1.15. |   |
| TOP CHORD   | 2x6 DF No 2                      |                             |                   |                                  | 3-28=0/892, 28-29=                             | 0/887.     | 23-29=0/864,                 |              | PI    | ate Incre | ase=1    | .15               | ,                  |   |
| BOT CHORD   | 2x4 HF No.2                      |                             |                   | ŧ                                | 5-30=-954/0, 30-31                             | =-877/0    | , 20-31=-886/                | 0,           | U     | niform Lo | bads (It | o/ft)             |                    |   |
| WEBS        | 2x4 HF No.2                      |                             |                   | 2                                | 2-26=-89/0, 24-28=                             | 0/50, 4-   | 29=-61/0,                    |              |       | Vert: 1-  | 13=-16   | 4, 14-27=-20      |                    |   |
| OTHERS      | 2x4 HF No.2                      |                             |                   | 2                                | 22-30=-173/0, 6-31                             | =-17/30    | , 21-31=0/49,                |              |       |           |          |                   |                    |   |
| BRACING     |                                  |                             |                   | 8                                | 3-19=-141/0, 9-18=                             | -356/0,    | 10-17=-324/0                 | ),           |       |           |          |                   |                    |   |
| TOP CHORD   | Structural wood she              | athing directly applie      | d or              |                                  | 1-16=-336/0, 12-1                              | 5=-316     | 0                            |              |       |           |          |                   |                    |   |
|             | 6-0-0 oc purlins, ex             | cept end verticals.         | N                 | OTES                             |  |            |                              |              |       |           |          |                   |                    |   |
| BOT CHORD   | Rigid ceiling directly           | applied or 6-0-0 oc         | 1)                | Wind: ASCE                       | 7-16; Vult=110mpl                              | n (3-seo   | ond gust)                    | _            |       |           |          |                   |                    |   |
|             | bracing, Except:                 |                             |                   | Vasd=87mpl                       | n; TCDL=4.2psf; BC                             | DL=6.      | Opsf; h=25ft; C              | Cat.         |       |           |          |                   |                    |   |
|             | 10-0-0 oc bracing: 2             | 2-23,21-22,20-21.           |                   | II; Exp B; En                    | closed; MWFRS (e                               | nvelope    | e) exterior zon              | e            |       |           |          |                   |                    |   |
| REACTIONS   | (size) 14=11-9-0                 | 0, 15=11-9-0, 16=11-        | 9-0,              | and U-U Cor                      | ner (3) zone; cantil<br>d vertical left and ri | ever let   |                              |              |       |           |          |                   |                    |   |
|             | 17=11-9-0                        | 0, 18=11-9-0, 19=11-        | ·9-0,             | members an                       |  | for roa    | ctions shown                 |              |       |           |          |                   |                    |   |
|             | 20=11-9-0                        | ), 25=3-3-0, 26=3-3-        | 0,                | Lumber DOI                       | =1.60 plate arin D0                            | 101100     | )                            |              |       |           |          |                   |                    |   |
|             | 2/=3-3-0<br>Max Llaria 27 C1 (LC |                             | 2                 | Truss design                     | ed for wind loads i                            | n the p    | ,<br>lane of the tru         | ss           |       |           |          |                   |                    |   |
|             | Max Gray 11-106 (LC              | ンッ)<br>(C 1) 15_350 (I C 1) | _,                | only. For stu                    | ds exposed to wind                             | d (norm    | al to the face)              |              |       |           |          |                   |                    |   |
|             | 16-276 (I                        | C 1) 17-361 (LC 1)          | ,                 | see Standard                     | Industry Gable Er                              | nd Deta    | ils as applicat              | ole,         |       |           |          |                   |                    |   |
|             | 18=409 (I                        | C 1) 19=131 (I C 1)         | ,                 | or consult qu                    | alified building des                           | igner a    | s per ANSI/TP                | ч <u>1</u> . |       |           |          |                   |                    |   |
|             | 20=1200                          | (LC 1), 25=1150 (LC         | ,<br>1), 3)       | Provide adec                     | uate drainage to p                             | revent     | water ponding                |              |       |           |          |                   |                    |   |
|             | 26=82 (LC                        | C 1), 27=134 (LC 1)         | /' 4)             | All plates are                   | 2x4 MT20 unless                                | otherwi    | se indicated.                |              |       |           |          |                   |                    |   |
| FORCES      | (lb) - Maximum Com               | pression/Maximum            | 5)                | Truss to be f                    | ully sheathed from                             | one fac    | e or securely                |              |       |           |          |                   |                    |   |
|             | Tension                          |                             |                   | braced again                     | st lateral movemer                             | nt (i.e. d | agonal web).                 |              |       |           |          |                   | -                  |   |
| TOP CHORD   | 1-27=-115/0, 1-2=-2              | 3/28, 2-3=-20/30,           | 6)                | Gable studs                      | spaced at 2-0-0 oc                             |            |                              |              |       |           |          |                   |                    |   |
|             | 3-4=-810/0, 4-5=-80              | 1/0, 5-6=-37/29,            | 7)                | i his truss ha                   | s been designed fo                             | ora 10.0   | J pst bottom                 | de la        |       |           |          | OMINO             | G 21.              |   |
|             | 6-7=-33/34, 7-9=-33              | /31, 9-10=-31/31,           | 0)                | * This truce h                   |  | for a live | other live load              | JS.          |       |           |          | TAU               | CHA                |   |
|             | 10-11=-31/33, 11-12              | 2=-31/35, 12-13=-31/        | 36, <sup>8)</sup> | on the bottor                    | n chord in all areas                           | where      | e ioau oi 20.0<br>a rectande | hai          |       |           |          | T OF WA           | SHIN               |   |
|             | 13-14=-98/0                      |                             |                   | 3-06-00 tall h                   | v 2-00-00 wide will                            | fit betv   | veen the botto               | m            |       |           |          | AN YOR            |                    |   |
| BOLCHOUD    | 26-27=-88/73, 25-26              | 5=-88/73, 24-25=-88/        | 73,               | chord and ar                     | v other members                                |            |                              |              |       |           | -        | A                 |                    |   |
|             | 23-24=-88/73, 22-23              | 3=0/802, 21-22=0/80         | 2, 9)             | All bearings                     | are assumed to be                              | HF No.     | 2 crushing                   |              |       |           |          | 1°                | 2                  |   |
|             | 20-21=0/802, 19-20=              | =-31/31, 17-19=-32/3        | 21, <sup>-,</sup> | capacity of 4                    | 05 psi.  |            | J                            |              |       |           |          |                   |                    |   |
|             | 10-17=-32/31, 15-10              | =-32/31, 14-13=-32/         | 1                 | )) This truss is                 | designed in accord                             | ance w     | ith the 2018                 |              |       |           |          |                   |                    |   |
|             |                                  |                             |                   | International                    | Building Code sect                             | ion 230    | 6.1 and                      |              |       |           | 1        | 540               | 14 /8 1            |   |
|             |                                  |                             |                   | referenced s                     | andard ANSI/TPI 1                              |            |                              |              |       |           |          | ON REGION         | BE A               |   |
|             |                                  |                             | 11                | <ol> <li>Load case(s)</li> </ol> | 1 has/have been r                              | nodified   | d. Building                  |              |       |           | -        | Econst            | GIT                |   |
|             |                                  |                             |                   | designer mu                      | st review loads to v                           | erify the  | at they are                  |              |       |           |          | SIONA             | LEN                |   |
|             |                                  |                             | -                 | correct for th                   | e intended use of th                           | nis trus   | 5.                           |              |       |           |          |                   |                    |   |
|             |                                  |                             | L                 | DAD CASE(S)                      | Standard                                       |            |                              |              |       |           |          |                   |                    |   |

400 Sunrise Ave., Suite 270

Roseville, CA 95661 916.755.3571 / MiTek-US.com

March 26,2024

| Job     | Truss | Truss Type                 | Qty | Ply | MKM LEGACY EAST TOWN CROSSING BLD G   |
|---------|-------|----------------------------|-----|-----|---------------------------------------|
| 3907862 | N02   | Monopitch Structural Gable | 2   | 1   | R81482226<br>Job Reference (optional) |

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 25 09:36:48 ID:HvtLD4X8WgiSXinUIG13iLzZ1Gf-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f







Scale = 1:60.7

Plate Offsets (X, Y): [6:0-4-0,0-4-8]

| Loading<br>TCLL (roof)<br>TCDL<br>BCLL                                     | (psf)<br>25.0<br>15.0<br>0.0*   | <b>Spacing</b><br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr  | 2-0-0<br>1.15<br>1.15<br>YES                             |   | CSI<br>TC<br>BC<br>WB  | 0.26<br>0.25<br>0.31  | DEFL<br>Vert(LL)<br>Vert(CT)<br>Horz(CT)   | in<br>-0.04<br>-0.08<br>0.00                                | (loc)<br>14-15<br>14-15<br>16      | l/defl<br>>999<br>>999<br>n/a      | L/d<br>240<br>180<br>n/a           | PLATES<br>MT20  | <b>GRIP</b><br>185/148        |
|--|---|--|--|---|--|---|--|---|------------------------------------|------------------------------------|------------------------------------|---|-------------------------------|
| BCDL   | 10.0  | Code   | IBC2018  | /TPI2014  | Matrix-SH  |   |  |   |                                    |                                    |                                    | Weight: 165 lb  | FT = 10%                      |
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>OTHERS<br>BRACING<br>TOP CHORD | 2x6 DF No.2<br>2x4 HF No.2<br>2x4 HF No.2<br>2x4 HF No.2<br>2x4 HF No.2<br>Structural wood she  | athing directly applied  | or NO  | EBS 7<br>1<br>1<br>9<br>2<br>5<br>5<br>5<br>5<br>5<br>5   | -20=-56/63, 8-19=-<br>1-16=-845/214, 12<br>3-15=-106/652, 11<br>1-16=-391/67, 8-17=<br>1-25=-170/58, 3-24=<br>1-22=-166/56, 6-21=  | -547/10<br>-15=-4<br>-15=-12<br>=-77/55<br>=-160/5<br>=-80/30   | 8, 9-17=-23(<br>52/162,<br>25/831,<br>1, 7-19=-245<br>4, 4-23=-160   | D/111,<br>5/88,<br>D/54,                                    | 11) This<br>Inte<br>refe<br>LOAD ( | s truss is<br>rnationa<br>renced s | desig<br>I Build<br>standa<br>Star | ned in accordance<br>ng Code section<br>rd ANSI/TPI 1.<br>ndard | e with the 2018<br>2306.1 and |
| BOT CHORD  | 6-0-0 oc purlins, exe<br>Rigid ceiling directly<br>bracing, Except:<br>10-0-0 oc bracing: 1   | cept end verticals.<br>applied or 6-0-0 oc<br>6-17,14-15.  | 1)   | Wind: ASCE<br>Vasd=87mph<br>II; Exp B; End<br>and C-C Corr  | 7-16; Vult=110mpr<br>; TCDL=4.2psf; BC<br>closed; MWFRS (ei<br>ner (3) 0-1-12 to 15  | n (3-sec<br>CDL=6.0<br>nvelope<br>5-1-12, l   | ond gust)<br>)psf; h=25ft;<br>e) exterior zo<br>Exterior (2)   | Cat.<br>ne  |                                    |                                    |                                    |   |                               |
| REACTIONS  | (size) 14=0-5-8,<br>20=11-3-5<br>23=11-3-5<br>26=11-3-5<br>Max Horiz 26=61 (LC<br>Max Uplift 14=-30 (L<br>19=-38 (L<br>23=-12 (L<br>23=-12 (L<br>25=-11 (L<br>19=736 (L<br>19=736 (L<br>21=102 (L<br>23=199 (L<br>25=213 (L | 16=0-5-8, 19=0-3-8,<br>3, 21=11-3-8, 22=11-3<br>3, 24=11-3-8, 25=11-3<br>3, 24=11-3-8, 25=11-3<br>3<br>C 9)<br>C 12), 16=-65 (LC 12)<br>C 12), 20=-9 (LC 8),<br>C 12), 22=-10 (LC 12),<br>C 12), 24=-12 (LC 8),<br>C 12), 24=-12 (LC 8),<br>C 1), 20=101 (LC 1),<br>C 1), 22=209 (LC 1),<br>C 1), 24=199 (LC 1),<br>C 1), 26=73 (LC 1) | -8,<br>-8,<br>2)<br>, 2)<br>, 3)<br>4)<br>5)<br>6)<br>7) | 15-1-12 to 19<br>cantilever left<br>right exposed<br>for reactions :<br>DOL=1.60<br>Truss design<br>only. For stu<br>see Standard<br>or consult qu<br>Provide adeq<br>All plates are<br>Truss to be fu<br>braced again<br>Gable studs s<br>This truss has | I-6-12, Corner (3) 1<br>c and right exposed<br>(;C-C for members)<br>shown; Lumber DC<br>and for wind loads i<br>ds exposed to winc<br>l Industry Gable En<br>alified building desi<br>uate drainage to p<br>2x4 MT20 unless<br>ully sheathed from<br>spaced at 2-0-0 oc.<br>s been designed for<br>d concensurate | 9-6-12<br>; end v<br>and for<br>DL=1.60<br>n the pld<br>(norm<br>id Detai<br>igner as<br>revent v<br>otherwisione fac<br>it (i.e. d | to 34-6-12 z<br>ertical left ar<br>cess & MWFf<br>plate grip<br>ane of the tr<br>al to the face<br>is as applica<br>per ANSI/T<br>vater pondin<br>se indicated.<br>e or securely<br>iagonal web)<br>psf bottom | one;<br>nd<br>RS<br>uss<br>a),<br>bble,<br>PI 1.<br>g.<br>V |                                    |                                    |                                    | TAOMING   | 3 ZHAC                        |
| FORCES   | (lb) - Maximum Com<br>Tension   | pression/Maximum   | 8)   | * This truss h  | as been designed   | for a liv   | e load of 20.  | opsf  |                                    |                                    | 7                                  | THE WA  | STRA L                        |
| TOP CHORD  | 1-26=-59/21, 1-2=-1<br>3-4=-19/22, 4-5=-19/<br>7-8=-47/210, 8-9=-2<br>11-12=-646/125, 12-<br>13-14=-453/107   | 8/19, 2-3=-18/20,<br>/23, 5-7=-20/25,<br>43/56, 9-11=-50/136,<br>-13=-647/129,   | 9)   | on the bottom<br>3-06-00 tall b<br>chord and an<br>All bearings a<br>capacity of 40<br>Provide mech   | n chord in all areas<br>y 2-00-00 wide will<br>y other members.<br>are assumed to be<br>05 psi.<br>nanical connection  | where<br>fit betw<br>HF No.   | a rectangle<br>veen the bott<br>2 crushing<br>ers) of truss  | tom   |                                    |                                    |                                    |   |                               |
| BOLCHORD   | 25-26=-86/70, 24-25<br>22-23=-86/70, 21-22<br>19-20=-85/70, 17-19<br>16-17=-66/241, 15-1  | >=-86/70, 23-24=-86/7<br>2=-86/70, 20-21=-85/7<br>9=-207/58,<br>6=-130/49, 14-15=-21   | 0, 10)<br>0,<br>1/48                                     | bearing plate<br>26, 30 lb uplif<br>uplift at joint 25, 12 lb uplif<br>uplift at joint 2  | capable of withsta<br>ft at joint 14, 9 lb up<br>19, 65 lb uplift at joint<br>ft at joint 24, 12 lb u<br>22 and 11 lb uplift a   | nding 5<br>olift at jo<br>int 16, 1<br>uplift at<br>at joint 2  | Ib uplift at jo<br>pint 20, 38 lb<br>1 lb uplift at<br>joint 23, 10 l<br>21.   | joint<br>b  |                                    |                                    | 3                                  | POFESSIONA  | ERED LENGING                  |

March 26,2024



| Job     | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING BLD G   |
|---------|-------|------------|-----|-----|---------------------------------------|
| 3907862 | N03   | Monopitch  | 2   | 1   | R81482227<br>Job Reference (optional) |

Run: 8,63 S Nov 1 2023 Print: 8,630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 25 09:36:48 ID:OvDiVSV81MqFA18a1za1\_7zZ1OS-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f







Scale = 1:59.6

| <b>Loading</b><br>TCLL (roof)<br>TCDL<br>BCLL<br>BCDL                                      |   | (psf)<br>25.0<br>15.0<br>0.0*<br>10.0  | <b>Spacing</b><br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code   | 2-0-0<br>1.15<br>1.15<br>YES<br>IBC2018                          | 8/TPI2014   | <b>CSI</b><br>TC<br>BC<br>WB<br>Matrix-SH  | 0.26<br>0.15<br>0.45   | DEFL<br>Vert(LL)<br>Vert(CT)<br>Horz(CT)   | in<br>-0.02<br>-0.03<br>0.00                                    | (loc)<br>11-12<br>11-12<br>18 | l/defl<br>>999<br>>999<br>n/a | L/d<br>240<br>180<br>n/a | PLATES<br>MT20<br>Weight: 198 lb | <b>GRIP</b><br>185/148<br>FT = 10% |  |
|--|---|--|---|--|---|--|--|--|---|-------------------------------|-------------------------------|--------------------------|----------------------------------|------------------------------------|--|
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>BRACING<br>TOP CHORD<br>BOT CHORD<br>REACTIONS | 2x6 DF N<br>2x6 DF N<br>2x4 HF N<br>Structural<br>6-0-0 oc p<br>Rigid ceill<br>bracing.<br>(size)<br>Max Horiz<br>Max Uplift<br>Max Grav<br>(lb) - Max<br>Tension<br>1-20=-37 | 0.2<br>0.2<br>0.2<br>I wood she<br>purlins, ex<br>ing directly<br>11=0-5-8,<br>18=0-5-8,<br>20=59 (L0<br>11=-29 (L<br>16=-35 (L<br>20=-28 (L<br>11=503 (l<br>20=435 (L<br>20=435 (L<br>20=435 (L<br>20=435 (L<br>20=435 (L<br>20=435 (L)<br>20=435 (L) | athing directly applied<br>cept end verticals.<br>applied or 6-0-0 oc<br>14=0-5-8, 16=0-3-8,<br>20=0-5-8<br>C 11)<br>C 12), 14=-66 (LC 8),<br>C 12), 18=-40 (LC 12<br>C 8)<br>C 1), 14=1097 (LC 1<br>C 1), 18=750 (LC 1),<br>C 1)<br>pression/Maximum<br>582/92, 2-3=-55/247, | 1)<br>d or<br>2)<br>3)<br>4)<br>5)<br>),<br>5)<br>),<br>6)<br>7) | Wind: ASCE<br>Vasd=87mpH<br>II; Exp B; Enn<br>and C-C Cor<br>15-1-12 to 18<br>cantilever lef<br>right exposed<br>for reactions<br>DOL=1.60<br>Provide adec<br>All plates are<br>This truss ha<br>chord live loa<br>* This truss ho<br>on the bottom<br>3-06-00 tall b<br>chord and ar<br>All bearings a<br>capacity of 4<br>Provide mech<br>bearing plate | 7-16; Vult=110mpl<br>a; TCDL=4.2psf; BC<br>closed; MWFRS (e<br>ner (3) 0-1-12 to 15<br>8-9-8, Corner (3) 18<br>and right exposed<br>t; C-C for members<br>shown; Lumber DC<br>uate drainage to p<br>3x4 MT20 unless<br>s been designed for<br>d nonconcurrent w<br>as been designed<br>n chord in all areas<br>y 2-00-00 wide will<br>y other members.<br>are assumed to be<br>D5 psi.<br>nanical connection<br>capable of withsta<br>f at joint 11, 40 lb | h (3-sec<br>CDL=6.<br>cDL=6.<br>cDL=6.<br>cDL=6.<br>cDL=6.<br>convelope<br>s-9-8 to<br>s-9-8 to<br>s-9-8 to<br>s-9-8 to<br>s-9-8 to<br>s-9-8 to<br>s-9-8 to<br>convelope<br>otherwi<br>or a 10.<br>convelope<br>otherwi<br>or a 10.<br>convelope<br>otherwi<br>or a 10.<br>convelope<br>otherwi<br>or a 10.<br>convelope<br>otherwi<br>or a 10.<br>convelope<br>otherwi<br>or a 10.<br>convelope<br>otherwi<br>or a 10.<br>convelope<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>otherwi<br>ot | ond gust)<br>Dpsf; h=25ft;<br>exterior zon<br>Exterior (2)<br>33-9-8 zone;<br>partical left ar<br>ces & MWFF<br>plate grip<br>water pondin,<br>se indicated.<br>Dpsf bottom<br>other live load<br>of 20.0<br>a rectangle<br>veen the botth<br>2 crushing<br>ers) of truss f<br>8 lb uplift at j<br>se ta 25 lb | Cat.<br>ne<br>dd<br>RS<br>g.<br>ds.<br>Opsf<br>om<br>to<br>oint |                               |                               |                          |                                  |                                    |  |
| BOT CHORD  | 3-5=-74/3<br>7-9=-626/<br>10-11=-43<br>19-20=-95  | 816, 5-6=-1<br>/119, 9-10=<br>35/105<br>5/103, 18-1  | 67/42, 6-7=-48/156,<br>626/123,<br>9=-152/578,  | 8)   | uplift at joint<br>This truss is<br>International<br>referenced si  | 16 and 66 lb uplift a<br>designed in accord<br>Building Code sect<br>andard ANSI/TPI 1   | at joint<br>lance w<br>tion 230  | 14.<br>ith the 2018<br>6.1 and   | -   |                               |                               |                          |                                  | 44.                                |  |
| WEBS<br>NOTES  | 16-18=-24<br>14-15=-5<br>3-18=-34<br>7-14=-82<br>10-12=-10<br>6-15=-27<br>3-16=-84<br>1-19=-10  | 43/63, 15-1<br>1/166, 12-1<br>0/117, 5-16<br>9/216, 9-12<br>00/623, 7-1<br>7/120, 6-14<br>/27, 2-19=-<br>0/550   | 6=-314/74,<br>4=-150/57, 11-12=-2<br>5=-479/93,<br>2=-453/165,<br>2=-127/827,<br>4=-332/53, 5-15=-82/5<br>107/109, 2-18=-869/1  | 7/47 LC<br>582,<br>55,   | DAD CASE(S)   | Standard   |  |  |   |                               |                               | Y                        | A THOMING                        | ZHAO                               |  |
|  |   |  |   |  |   |  |  |  |   |                               |                               | 3                        | TORESSIONA                       | LENGIND                            |  |



TAL March 26,2024

| Job     | Truss | Truss Type       | Qty | Ply | MKM LEGACY EAST TOWN CROSSING BLD G   |
|---------|-------|------------------|-----|-----|---------------------------------------|
| 3907862 | N04   | Monopitch Girder | 8   | 1   | R81482228<br>Job Reference (optional) |

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 25 09:36:49 ID:Wg12ojsyzac?meQLnG74BRzZ1O\_-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f







Scale = 1:59.6

| Plate Offsets (   | (X, Y): [2:0-1-12,0-  | 1-12], [9:0-2-12,0-2-8],   | [10:Edge,0                             | -3-8], [16:0-1-1   | 12,0-4-12], [17:0-3  | 3-8,0-3-0   |  |                              |                               |                               |                          |  |   |
|---|---|--|--|--|--|---|--|------------------------------|-------------------------------|-------------------------------|--------------------------|--|---|
| Loading<br>TCLL (roof)<br>TCDL<br>BCLL<br>BCDL  | (psf)<br>25.0<br>15.0<br>0.0<br>10.0  | * Spacing<br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code   | 2-0-0<br>1.15<br>1.15<br>NO<br>IBC2018 | 3/TPI2014  | CSI<br>TC<br>BC<br>WB<br>Matrix-SH   | 0.60<br>0.80<br>0.96  | DEFL<br>Vert(LL)<br>Vert(CT)<br>Horz(CT)   | in<br>-0.63<br>-1.26<br>0.15 | (loc)<br>14-16<br>14-16<br>10 | l/defl<br>>636<br>>321<br>n/a | L/d<br>240<br>180<br>n/a | PLATES<br>M18AHS<br>MT20<br>Weight: 198 lb | <b>GRIP</b><br>145/140<br>185/148<br>FT = 10% |
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>REACTIONS | 2x6 DF 2400F 2.<br>No.2<br>2x6 DF 2400F 2.<br>2x4 HF No.2 *Ex<br>17-1:2x4 DF 1800<br>Structural wood s<br>2-8-7 oc purlins,<br>Rigid ceiling direc<br>bracing.<br>1 Row at midpt<br>(size) 10=0-5<br>Max Horiz 18=59<br>Max Uplift 10=-27 | DE *Except* 7-9:2x6 DF<br>DE *ept* 9-11:2x4 DF No.2<br>DF 1.6E<br>theathing directly applie<br>except end verticals.<br>ty applied or 5-11-6 o<br>5-13, 6-11<br>i-8, 18=0-5-8<br>(LC 11)<br>1 (LC 12), 18=-498 (LC | 1)<br><br>2,<br>                       | Wind MARSH       Weight: 198 lb       FT =         Wind: ASCE 7-16; Vult=110mph (3-second gust)       Vert: 16=-1282 (F=-641, B=-641)         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)       Vert: 16=-1282 (F=-641, B=-641)         15-1-12 to 18-9-8, Corner (3) 18-9-8 to 33-9-8 zone; cantilever left and right exposed; c-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60       Provide adequate drainage to prevent water ponding.         All plates are MT20 plates unless otherwise indicated. This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.       * This truss has been designed for a live load of 20.0psf on the bottom chord in all weight of a live load of 20.0psf |  |   |  |                              |                               |                               |                          |  | )   |
| FORCES<br>TOP CHORD   | Max Grav 10=200<br>(lb) - Maximum C<br>Tension<br>1-18=-2475/668,<br>2-3=-10909/3004<br>5-6=-8028/1834,   | 59 (LC 1), 18=2578 (LC<br>ompression/Maximum<br>1-2=-6618/1761,<br>, 3-5=-10423/2577,<br>6-8=-4680/1025,   | 6)<br>7)                               | chord and any other members.<br>All bearings are assumed to be HF No.2 crushing<br>capacity of 405 psi.<br>) Provide mechanical connection (by others) of truss to<br>bearing plate capable of withstanding 498 lb uplift at   |  |   |  |                              |                               |                               |                          |  |   |
| BOT CHORD   | 8-9=-4680/1030,<br>17-18=-133/201,<br>14-16=-3063/109   | 9-10=-1981/453<br>16-17=-1824/6611,<br>02, 13-14=-2618/1041;   | 8)<br>8,                               | This truss is<br>International<br>referenced s   | designed in accor<br>Building Code sec<br>tandard ANSI/TPI   | dance w<br>ction 230  | th the 2018<br>6.1 and   |                              |                               |                               |                          |  | eee   |
| WEBS  | 3-16=-455/648, 3<br>5-14=-185/517, 5<br>8-11=-471/172, 9<br>2-16=-1328/4591<br>1-17=-1799/6759<br>6-11=-3591/883  | 5, 10-11=-37/84<br>-14=-1326/784,<br>-13=-2614/801,<br>-11=-1072/4949,<br>, 2-17=-2012/621,<br>, 6-13=-179/922,  | 9)<br>10                               | Hanger(s) or<br>provided suff<br>lb down and<br>286 lb up at<br>selection of s<br>responsibility<br>) In the LOAD  | other connection<br>icient to support c<br>286 lb up at 10-3<br>10-3-8 on bottom<br>such connection de<br>of others.<br>CASE(S) section, | device(s<br>concentra<br>-8, and 8<br>chord. <sup>-</sup><br>evice(s)<br>, loads ap | ) shall be<br>Ited load(s) 7<br>05 lb down a<br>The design/<br>is the<br>oplied to the f | 56<br>ind                    |                               |                               |                          | TUNOMIN                                    | SHENCETON                                     |
| NOTES   |   |  | LC<br>1)                               | of the truss a<br><b>DAD CASE(S)</b><br>Dead + Roo<br>Plate Increa<br>Uniform Loa<br>Vert: 1-9<br>Concentrate  | re noted as front (<br>Standard<br>of Live (balanced):<br>ise=1.15<br>ads (lb/ft)<br>=-80, 10-18=-20<br>ed Loads (lb)                    | (F) or ba   | ck (B).<br>Increase=1.   | 15,                          |                               |                               |                          | PROFESSIONA                                | 14<br>BED<br>LENGTH                           |

March 26,2024



| Job                                | Truss                       | Truss Type        | Qty             | Ply         | MKM LEGACY EAST TOWN CROSSING E                 | BLD G        |
|------------------------------------|-----------------------------|-------------------|-----------------|-------------|---|--------------|
| 3907862                            | N05                         | Monopitch Girder  | 2               | 2           | Job Reference (optional)                        | R81482229    |
| Builders FirstSource (Arlington, V | VA), Arlington, WA - 98223, | Run: 8.63 S Nov 1 | 2023 Print: 8.6 | 630 S Nov 1 | 2023 MiTek Industries, Inc. Mon Mar 25 09:36:49 | Page: 1      |
|                                    |                             | ID:exk3XhLne8aW2  | 0uF3mxYy2zZ     | 0wz-RfC?Ps  | B70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f           | PRMU20240404 |

| L | 2-10-8 | 6-10-0 | 13-8-6 | 21-0-2 | 23-7-8 | 28-3-15 | 33-8-8 | 35-11-4 |
|---|--------|--------|--------|--------|--------|---------|--------|---------|
| ſ | 2-10-8 | 3-11-8 | 6-10-6 | 7-3-13 | 2-7-6  | 4-8-7   | 5-4-9  | 2-2-12  |





Scale = 1:62.6

Plate Offsets (X, Y): [7:0-2-0,0-2-0], [17:0-4-0,0-2-4]

|           |               | (                      | 0                       | 0.0.0             |                  | 001                   |           | DEEL              | 1            | (1)      | 1/1-4       | 1.74              |                   |                         |
|-----------|---------------|------------------------|-------------------------|-------------------|------------------|-----------------------|-----------|-------------------|--------------|----------|-------------|-------------------|-------------------|-------------------------|
| Loading   |               | (psr)                  | Spacing                 | 2-0-0             |                  |                       | 0.20      |                   | IN<br>0.11   | (IOC)    |             | L/0               | PLATES            | GRIP<br>195/149         |
|           |               | 25.0                   | Fiale Grip DOL          | 1.15              |                  | RC                    | 0.39      | Vert(LL)          | -0.11        | 10-20    | >999        | 190               | WI120             | 100/140                 |
| BCU       |               | 0.0*                   | Rep Stress Incr         | NO                |                  | WB                    | 0.79      | Horz(CT)          | -0.29        | 10-20    | >970<br>n/a | n/a               |                   |                         |
| BOLL      |               | 10.0                   | Codo                    |                   | 9/TDI2014        | Motrix SU             | 0.56      | 11012(C1)         | 0.03         | 10       | n/a         | n/a               | Woight: 424 lb    | ET - 10%                |
| BCDL      |               | 10.0                   | Code                    | 10020             | 0/1712014        | Wathx-Si i            |           |                   |              |          | -           |                   | Weight. 424 lb    | FT = T0 /6              |
| LUMBER    |               |                        |                         | 2                 | ) N/A            |                       |           |                   |              | 13) This | s truss is  | desig             | ned in accordan   | ce with the 2018        |
| TOP CHORD | 2x6 DF No.    | 2                      |                         | 3                 | ) N/A            |                       |           |                   |              | Inte     | rnationa    | l Build           | ling Code sectior | 1 2306.1 and            |
| BOT CHORD | 2x6 DF No.    | 2                      |                         | 4                 | ) 2-ply truss to | be connected toge     | ther wi   | th 8d             |              | refe     | renced a    | standa            | ard ANSI/TPI 1.   |                         |
| WEBS      | 2x4 HF No.    | 2                      |                         |                   | (0.131"x1.5")    | nails as follows:     |           |                   |              | 14) Loa  | d case(s    | s) 1 ha           | is/have been mo   | dified. Building        |
| BRACING   |               |                        |                         |                   | Top chords o     | onnected as follow    | s: 2x4    | - 4 rows          |              | des      | igner mu    | ust rev           | iew loads to veri | fy that they are        |
| TOP CHORD | Structural v  | vood shea              | athing directly applied | d or              | staggered at     | 0-1-0 oc.             |           |                   |              | cori     | ect for th  | ne inte           | ended use of this | truss.                  |
|           | 6-0-0 oc pu   | irlins, exc            | ept end verticals.      |                   | Bottom chore     | is connected as fol   | lows: 2   | x6 - 4 rows       |              | 15) This | s truss h   | as bee            | en designed for a | total drag load of      |
| BOT CHORD | Rigid ceiling | g directly             | applied or 6-0-0 oc     |                   | staggered at     | 0-1-0 oc.             |           |                   |              | 200      | 0 Ib. Lur   | nber L            | DOL=(1.33) Plate  | grip DOL=(1.33)         |
|           | bracing.      |                        |                         |                   | Web connect      | ed as follows: 2x4    | - 4 row   | s staggered a     | at           | Cor      |             | SS 10 F           | esist drag loads  | along bottom chord      |
| WEBS      | 1 Row at m    | nidpt 4                | 5-17                    | -                 | 0-1-0 OC.        |                       | onnlin    | مالم والمانوم     |              | 16) Hor  | 1 23-5-1    | 2 10 3:<br>r otho | r connection day  | JII.<br>ico(c) chall ho |
| REACTIONS | (size) 1      | 2=12-5-8               | , 13=12-5-8, 14=12-     | 5-8, <sup>D</sup> | ) All loads are  | considered equally    | applie    | to all plies,     | חאר          | nro      | ided su     | fficient          | t to support conc | entrated load(s) 595    |
|           | 1             | 6=12-5-8               | , 22=0-5-8              |                   |                  | tion Ply to ply con   | nection   | e have heen       |              | lh d     | own and     | 2851              | h un at 10-3-8 o  | n bottom chord The      |
|           | Max Horiz 2   | 22=91 (LC              | 32)                     |                   | provided to d    | istribute only loads  | noted     | as (F) or (B)     |              | des      | ian/sele    | ction o           | f such connectio  | n device(s) is the      |
|           | Max Uplift 1  | 12=-714 (L             | _C 50), 22=-8 (LC 29    | 9)                | unless other     | vise indicated.       | notou     | uo (i ) oi (b),   |              | res      | onsibilit   | y of of           | thers.            |                         |
|           | Max Grav 1    | 12=325 (L              | C 37), 13=964 (LC 1     | ), 6              | ) Wind: ASCE     | 7-16: Vult=110mph     | n (3-sed  | cond aust)        |              | LOAD     | CASE(S)     | Sta               | ndard             |                         |
|           | 1             | 14=435 (L              | C 58), 16=3828 (LC      | 1), -             | Vasd=87mph       | : TCDL=4.2psf: BC     | DL=6.     | 0psf: h=25ft: (   | Cat.         | 1) De    | ad + Ro     | of Live           | e (balanced): I u | mber Increase=1 15      |
|           | 2             | 22=1507 (              | LC 1)                   |                   | II; Exp B; En    | closed; MWFRS (er     | nvelope   | e) exterior zor   | ne           | Pla      | ate Incre   | ase=1             | .15               |                         |
| FORCES    | (lb) - Maxim  | num Com                | pression/Maximum        |                   | and C-C Cor      | ner (3) 0-1-12 to 15  | j-1-12,   | Éxterior (2)      |              | Ur       | iform Lo    | oads (I           | b/ft)             |                         |
|           | Tension       |                        | 0400/404                |                   | 15-1-12 to 20    | )-9-8, Corner (3) 20  | )-9-8 to  | 35-9-8 zone;      |              |          | Vert: 1-2   | 23=-80            | ), 11-23=-164, 12 | 2-22=-20                |
| TOP CHORD | 1-22=-1424    | I/81, 1-2≕             | -2122/124,              | •                 | cantilever lef   | t and right exposed   | ; end v   | ertical left an   | nd           | Co       | oncentra    | ted Lo            | ads (lb)          |                         |
|           | 2-3=-4624/    | 50, 3-5=-4             | 1//1/0, 5-b=-515/468    | 8,                | right exposed    | ;C-C for members      | and fo    | rces & MWFF       | RS           |          | Vert: 25    | =-464             | (B)               |                         |
|           | 9-10-/35/     | 07,7-9=-1<br>1558 10-1 | 120/3040,<br>11316/633  |                   | for reactions    | shown; Lumber DC      | DL=1.60   | ) plate grip      |              |          |             |                   |                   |                         |
|           | 11-123/3      | 1330, 10-              | 11=-310/033,            | _                 | DOL=1.60         |                       |           |                   |              |          |             |                   |                   |                         |
|           | 21-22-117     | 7/121 20-1             | 21160/2119              | 1                 | ) Provide adec   | luate drainage to pi  | revent    | water ponding     | g.           |          |             |                   | MIN               |                         |
| DOT ONORD | 18-20=-235    | 5/4622 17              | -18=0/4762              | 8                 | ) All plates are | 4x5 MT20 unless (     | otherwi   | se indicated.     |              |          |             |                   | OMIN              | C ZHA                   |
|           | 16-17=-329    | 97/316. 14             | -16=-2186/971.          | 9                 | ) I his truss ha | s been designed to    | ith anu   | J psr bottom      | da           |          |             | - 2               | THE WA            | SHI                     |
|           | 13-14=-108    | 36/777. 12             | -13=-365/342            | 4                 |                  |                       | for a liv | other live loa    | las.<br>Deof |          |             | - 7               | A                 | A WONT                  |
| WEBS      | 2-21=-1335    | 5/168, 3-20            | 0=-649/0,               | 1                 | on the better    | as been designed      | whore     | a roctanglo       | opsi         |          |             | -                 | 12 No             |                         |
|           | 5-18=-322/3   | 369, 6-17              | =-1007/0,               |                   | 3-06-00 tall h   | v 2-00-00 wide will   | fit het   | a reclarigie      | om           |          |             |                   | 5                 | Zario Z                 |
|           | 9-14=-326/    | 195, 5-17              | =-5097/0,               |                   | chord and an     | v other members       | in bett   | veen ine boll     | 0111         |          |             |                   |                   |                         |
|           | 3-18=-151/8   | 881, 2-20              | =-82/2730,              | 1                 | 1) All bearings  | are assumed to be     | HF No     | 2 crushing        |              |          |             |                   |                   |                         |
|           | 1-21=-113/2   | 2404, 10-              | 13=-441/7,              |                   | capacity of 4    | 05 psi.               |           |                   |              |          |             | 2                 |                   |                         |
|           | 11-13=-986    | 6/444, 10-             | 14=-1133/258,           | . 1               | 2) Provide mecl  | nanical connection    | (by oth   | ers) of truss t   | to           |          |             | -                 | P 8 540           | 174 0/85                |
|           | 7-16=-2747    | 7/0, 7-17=0            | 0/3728, 9-16=-2027/     | 0                 | bearing plate    | capable of withsta    | nding 8   | B lb uplift at jo | int          |          |             |                   | FOGIST            | TERE                    |
| NOTES     |               |                        |                         |                   | 22 and 714 ll    | o uplift at joint 12. | 5         |                   |              |          |             |                   | SSIG              | TENGI                   |
| 1) N/A    |               |                        |                         |                   |                  |                       |           |                   |              |          |             |                   | INA               | LU                      |
|           |               |                        |                         |                   |                  |                       |           |                   |              |          |             |                   |                   |                         |

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



| Job     | Truss | Truss Type                | Qty | Ply | MKM LEGACY EAST TOWN CROSSING BLD G   |
|---------|-------|---------------------------|-----|-----|---------------------------------------|
| 3907862 | N06   | Monopitch Supported Gable | 2   | 1   | R81482230<br>Job Reference (optional) |

Max Horiz 5=61 (LC 11)

Tension

3-4=-208/210

2-4=-283/310

 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

Lumber DOL=1.60 plate grip DOL=1.60

Gable studs spaced at 2-0-0 oc.

exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown;

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. Provide adequate drainage to prevent water ponding.

Gable requires continuous bottom chord bearing.

Truss to be fully sheathed from one face or securely

braced against lateral movement (i.e. diagonal web).

This truss has been designed for a 10.0 psf bottom

chord live load nonconcurrent with any other live loads.

4-5=-71/80

Max Uplift 4=-35 (LC 9), 5=-42 (LC 8) Max Grav 4=114 (LC 1), 5=111 (LC 20)

1-5=-90/110, 1-2=-15/22, 2-3=-9/10,

(lb) - Maximum Compression/Maximum

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 25 09:36:49 ID:IfFvampx22v9aNEHjaWqDOzZ1LT-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





#### Scale = 1:27.2

FORCES

TOP CHORD

BOT CHORD

WEBS

NOTES

2)

3)

4)

5)

6) 7)

| Loading  | (psf)<br>25.0   | Spacing<br>Plate Grip DOL  | 2-0-0<br>1.15                    |  | CSI<br>TC   | 0.07   | DEFL<br>Vert(LL)   | in<br>n/a                  | (loc) | l/defl<br>n/a | L/d<br>999 | PLATES<br>MT20 | <b>GRIP</b><br>185/148 |  |
|--|---|--|----------------------------------|--|---|--|--|----------------------------|-------|---------------|------------|----------------|------------------------|--|
| CDL  | 15.0  | Lumber DOL   | 1.15                             |  | BC  | 0.05   | Vert(TL)   | n/a                        | -     | n/a           | 999        |                |                        |  |
| BCLL   | 0.0*  | Rep Stress Incr  | YES                              |  | WB  | 0.05   | Horiz(TL)  | 0.00                       | 4     | n/a           | n/a        |                |                        |  |
| 3CDL   | 10.0  | Code   | IBC2018                          | /TPI2014   | Matrix-R  |  |  |                            |       |               |            | Weight: 15 lb  | FT = 10%               |  |
| UMBER<br>TOP CHORD<br>30T CHORD<br>VEBS<br>DTHERS<br>BRACING<br>TOP CHORD<br>30T CHORD | 2x6 DF No.2<br>2x4 HF No.2<br>2x4 HF No.2<br>2x4 HF No.2<br>Structural wood shea<br>2-5-8 oc purlins, exc<br>Bioid ceiling directly | athing directly applic<br>cept end verticals.<br>applied or 10-0-0 | 8)<br>9)<br>ed or <sup>10)</sup> | * This truss h<br>on the bottom<br>3-06-00 tall b<br>chord and an<br>All bearings a<br>capacity of 4<br>Provide mect<br>bearing plate<br>5 and 35 lb u | as been design<br>n chord in all an<br>y 2-00-00 wide<br>y other member<br>are assumed to<br>05 psi.<br>hanical connec<br>capable of wit<br>plift at joint 4. | ned for a liv<br>reas where<br>will fit betw<br>ers.<br>b be HF No.<br>tion (by oth<br>hstanding 4 | e load of 20.<br>a rectangle<br>veen the bott<br>2 crushing<br>ers) of truss<br>2 lb uplift at | Opsf<br>tom<br>to<br>joint |       |               |            |                |                        |  |
| REACTIONS  | (size) 4=2-5-8, 5   | 5=2-5-8  | 11)                              | This truss is<br>International<br>referenced si  | designed in acc<br>Building Code<br>tandard ANSI/T  | cordance wi<br>section 230<br>TPI 1.   | th the 2018<br>6.1 and   |                            |       |               |            |                |                        |  |

LOAD CASE(S) Standard



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 BLD G   |
|---------|-------|------------|-----|-----|---------------------------------------|
| 3907862 | N07   | Monopitch  | 2   | 1   | R81482231<br>Job Reference (optional) |

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 25 09:36:49 ID:3jlvOmE8T\_scuwT5i4M2jZzZ10G-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f







[1:0-2-4,0-2-8], [2:0-2-0,0-2-8], [3:0-2-0,0-2-4], [8:0-2-0,0-2-0], [9:0-3-7,0-2-8], [10:Edge,0-3-8], [11:0-2-0,0-3-8], [13:0-3-4,0-2-0], [14:0-2-0,0-2-4], [16:0-2-0,0-2-8], [10:0-2-0,0-2-8],

#### Scale = 1:62.6

| Plate Offsets  | (X, Y): [17:0-2-4,0-2-8   | ], [18:0-2-0,0-0-4]  |   |  |   | _   |  |  |                               |                               |                          |                                  | -                                  |  |
|--|---|--|---|--|---|---|--|--|-------------------------------|-------------------------------|--------------------------|----------------------------------|------------------------------------|--|
| Loading<br>TCLL (roof)<br>TCDL<br>BCLL<br>BCDL   | (psf)<br>25.0<br>15.0<br>0.0*<br>10.0   | Spacing<br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code   | 2-0-0<br>1.15<br>1.15<br>YES<br>IBC201  | 8/TPI2014  | <b>CSI</b><br>TC<br>BC<br>WB<br>Matrix-SH   | 0.74<br>0.90<br>0.95  | DEFL<br>Vert(LL)<br>Vert(CT)<br>Horz(CT)   | in<br>-0.60<br>-1.20<br>0.11                       | (loc)<br>13-14<br>13-14<br>10 | l/defl<br>>715<br>>356<br>n/a | L/d<br>240<br>180<br>n/a | PLATES<br>MT20<br>Weight: 209 lb | <b>GRIP</b><br>185/148<br>FT = 10% |  |
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>OTHERS<br>BRACING<br>TOP CHORD<br>BOT CHORD<br>REACTIONS<br>FORCES<br>TOP CHORD<br>BOT CHORD<br>WEBS | 2x6 DF No.2<br>2x6 DF No.2 *Excep<br>2.0E<br>2x4 HF No.2 *Excep<br>2x4 HF No.2 *Excep<br>2x4 HF No.2<br>Structural wood she<br>2-2-0 oc purlins, ex<br>Rigid ceiling directly<br>bracing.<br>(size) 10=0-5-8,<br>Max Horiz 18=60 (LC<br>Max Uplift 10=-104 (<br>Max Grav 10=1782<br>(lb) - Maximum Com<br>Tension<br>1-18=-1721/261, 1-2<br>2-3=-5453/777, 3-5<br>5-6=-7364/1046, 6-8<br>8-9=-4816/707, 9-10<br>17-18=-100/116, 16<br>14-16=-841/5450, 13<br>11-13=-711/4809, 11<br>6-13=-563/183, 8-11<br>5-14=-470/176, 3-16<br>2-17=-1512/261, 1-1<br>2-16=-442/3113, 3-1<br>5-13=-353/63, 8-13=<br>9-11=-709/4943 | ot* 12-15:2x6 DF 240<br>athing directly applie<br>cept end verticals.<br>applied or 8-7-10 or<br>18=0-5-8<br>C 11)<br>(LC 12), 18=-105 (LC<br>(LC 1), 18=1782 (LC<br>pression/Maximum<br>2=-2598/382,<br>=-7704/1086,<br>3=-7364/1051,<br>)=-1693/288<br>=17=-447/2595,<br>3-14=-1138/7697,<br>0-11=-36/104<br>I=-1368/319,<br>S=-1107/242,<br>I7=-420/2952,<br>14=-327/2324,<br>=-383/2666, | 1)<br>DOF<br>ed or<br>c 2)<br>c 3)<br>4)<br>C 8)<br>C 8)<br>C 1)<br>5)<br>6)<br>7)<br>L 0 | Wind: ASCE<br>Vasd=87mpl<br>II; Exp B; En<br>and C-C Cor<br>15-1-12 to 20<br>cantilever lef<br>right expose<br>for reactions<br>DOL=1.60<br>Provide aded<br>This truss ha<br>chord live loa<br>* This truss ha<br>chord live loa<br>* This truss ha<br>chord live loa<br>* This truss ha<br>chord and ar<br>All bearings<br>capacity of 4<br>Provide mec<br>bearing plate<br>joint 18 and<br>This truss is<br>International<br>referenced s<br>DAD CASE(S) | 7-16; Vult=110mp<br>1; TCDL=4.2psf; Bi<br>closed; MWFRS (e<br>ner (3) 0-1-12 to 1<br>0-9-8, Corner (3) 2<br>t and right exposed<br>d;C-C for members<br>shown; Lumber Dr<br>quate drainage to p<br>is been designed find<br>ad nonconcurrent w<br>has been designed willy<br>y 0-ther members.<br>are assumed to be<br>05 psi.<br>hanical connectione<br>e capable of withstat<br>104 Ib uplift at joint<br>designed in accord<br>Building Code sec<br>tandard ANSI/TPI<br>Standard | h (3-sec<br>CDL=6.)<br>envelope<br>5-1-12,<br>0-9-8 to<br>d ; end v<br>s and foi<br>OL=1.60<br>or event v<br>or a 10.0<br>with any<br>for a liv<br>s where<br>Il fit betw<br>e HF No.<br>(by oth<br>anding 1<br>: 10.<br>dance w<br>ttion 230<br>1. | cond gust)<br>Dpsf; h=25ft; (<br>e) exterior zor<br>Exterior (2)<br>35-9-8 zone;<br>ertical left an<br>rces & MWFR<br>) plate grip<br>water ponding<br>0 psf bottom<br>other live loa<br>e load of 20.0<br>a rectangle<br>ween the botto<br>2 crushing<br>ers) of truss t<br>05 lb uplift at<br>ith the 2018<br>16.1 and | Cat.<br>ne<br>dd<br>RS<br>g.<br>ds.<br>Dpsf<br>pom |                               |                               |                          | A LINOMIN                        | G ZHAO<br>SHINGIOY                 |  |
| NOTES  |   |  |   |  |   |   |  |  |                               |                               |                          |                                  |                                    |  |



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| Job     | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING BLD G   |
|---------|-------|------------|-----|-----|---------------------------------------|
| 3907862 | N08   | Monopitch  | 6   | 1   | R81482232<br>Job Reference (optional) |

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 25 09:36:49 ID:TtcBqzuWKUJBT8GKNyxeLZzZ179-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f







#### Scale = 1:64.5

| Plate Offsets   | (X, Y): [2:0-2-4,0-2-8],  | [3:0-2-0,0-2-0], [8:0  | -2-4,0-2-8]   | , [9:0-2-12,0-2   | -4], [10:Edge,0-3-8  | 8], [11:0-   | 3-4,0-3-8], [1   | 3:0-3-0,0  | )-2-0], [1                    | 4:0-2-0,                      | 0-2-0],                  | [16:0-2-4,0-2-8],                                 | [17:0-1-12,0-2-0]                             |
|---|---|--|---|---|--|--|--|--|-------------------------------|-------------------------------|--------------------------|---|---|
| Loading<br>TCLL (roof)<br>TCDL<br>BCLL<br>BCDL  | (psf)<br>25.0<br>15.0<br>0.0*<br>10.0   | Spacing<br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code   | 2-0-0<br>1.15<br>1.15<br>YES<br>IBC2018                                       | 3/TPI2014   | CSI<br>TC<br>BC<br>WB<br>Matrix-SH   | 0.79<br>0.82<br>0.99   | DEFL<br>Vert(LL)<br>Vert(CT)<br>Horz(CT)   | in<br>-0.67<br>-1.35<br>0.12                                       | (loc)<br>13-14<br>13-14<br>10 | l/defl<br>>656<br>>327<br>n/a | L/d<br>240<br>180<br>n/a | <b>PLATES</b><br>MT20<br>M18AHS<br>Weight: 216 lb | <b>GRIP</b><br>185/148<br>169/162<br>FT = 10% |
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>OTHERS<br>BRACING<br>TOP CHORD<br>BOT CHORD<br>BOT CHORD<br>BOT CHORD<br>BOT CHORD<br>BOT CHORD<br>WEBS | 2x6 DF No.2<br>2x6 DF 2400F 2.0E<br>No.2<br>2x4 HF No.2 *Excep<br>2x4 HF No.2 *Excep<br>2x4 HF No.2<br>Structural wood she<br>2-2-0 oc purlins, ex<br>Rigid ceiling directly<br>bracing.<br>(size) 10=0-5-8,<br>Max Horiz 18=60 (LC<br>Max Uplift 10=-108 (<br>Max Grav 10=1844 (<br>(lb) - Maximum Com<br>Tension<br>1-18=-1743/262, 1-2<br>2-3=-6421/873, 3-5=<br>5-6=-7791/1062, 6-8<br>8-9=-5018/706, 9-10<br>17-18=-106/146, 16-<br>14-16=-936/6418, 13<br>11-13=-709/5010, 11<br>2-17=-1479/258, 3-1<br>5-14=-397/162, 6-13 | *Except* 12-10:2x6  <br>t* 11-9:2x4 DF No.2<br>athing directly applie<br>cept end verticals.<br>applied or 9-3-15 oc<br>18=0-5-8<br>C11)<br>LC 12), 18=-109 (LC<br>(LC 1), 18=1844 (LC<br>pression/Maximum<br>2=-3684/510,<br>8380/1134,<br>3=-7791/1067,<br>0=-1753/286<br>-17=-576/3679,<br>3-14=-1183/8373,<br>0-11=-35/106<br>(6=-1036/223,<br>3=-564/179,<br>570-72 | 1)<br>DF<br>ed or<br>2 2)<br>3)<br>4)<br>5 8)<br>5 1)<br>6)<br>7)<br>8)<br>8) | Wind: ASCE<br>Vasd=87mpl<br>II; Exp B; En<br>and C-C Cor<br>15-1-12 to 22<br>cantilever lef<br>right expose<br>for reactions<br>DOL=1.60<br>Provide adee<br>All plates are<br>This truss ha<br>chord live loa<br>* This truss ha<br>chord live loa<br>* This truss ha<br>chord live loa<br>* This truss ha<br>chord and ar<br>All bearings<br>capacity of 4<br>Provide mec<br>bearing plate<br>joint 18 and<br>This truss is<br>International<br>referenced s | 7-16; Vult=110mp<br>7-16; Vult=110mp<br>7, TCDL=4.2psf; E<br>closed; MWFRS (<br>ener (3) 0-1-12 to 12<br>2-0-4, Corner (3) 2<br>t and right exposed<br>d; C-C for member<br>shown; Lumber D<br>quate drainage to<br>a MT20 plates unlead<br>a MT20 | ph (3-sec<br>3CDL=6.(<br>envelope<br>15-1-12,<br>22-0-4 to<br>ad; end v<br>s and for<br>DOL=1.6(<br>prevent v<br>ess other<br>for a 10.0<br>with any<br>d for a liv<br>s where<br>ill fit betw<br>e HF No.<br>n (by oth<br>tanding 1<br>tt 10.<br>rdance w<br>ction 230(<br>1. | orond gust)<br>Opsf; h=25ft;<br>) exterior zo<br>Exterior (2)<br>37-0-4 zone<br>vertical left ar<br>cces & MWFf<br>0 plate grip<br>water pondin<br>wise indicate<br>0 psf bottom<br>other live loa<br>e load of 20.<br>a rectangle<br>veen the bott<br>2 crushing<br>ers) of truss<br>09 lb uplift a<br>ith the 2018<br>16.1 and | Cat.<br>ne<br>;<br>nd<br>RS<br>g.<br>ads.<br>0psf<br>om<br>to<br>t |                               |                               |                          | ALAOMINC<br>XLAOMINC                              | 3 ZHAO  |
| NOTES   | 8-11=-1433/319, 9-1<br>8-13=-400/2902, 5-1<br>3-14=-274/2021, 2-1<br>1-17=-523/3844   | 13=-708/5153,<br>13=-610/96,<br>16=-406/2987,  |   |   |  |  |  |  |                               |                               |                          |   | A CLOSE                                       |

NOTES



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| Job     | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING BLD G   |
|---------|-------|------------|-----|-----|---------------------------------------|
| 3907862 | N09   | Monopitch  | 6   | 1   | R81482233<br>Job Reference (optional) |

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 25 09:36:49 ID:\_FIzVJ1wbAv1?UUkLcBW55zZ19Z-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f







#### Scale = 1:64.5

| Plate Offsets  | (X, Y): [3:0-3-8,0-2-0],  | , [5:0-2-0,0-2-0], [9:0-  | -3-7,0-2-8]  | , [11:0-2-0,0-2  | -8], [15:0-4-8,0-5-   | 0]  |  |  |                         |                               |                          |                                  |                                    |
|--|---|---|--|--|---|---|--|--|-------------------------|-------------------------------|--------------------------|----------------------------------|------------------------------------|
| Loading<br>TCLL (roof)<br>TCDL<br>BCLL<br>BCDL   | (psf)<br>25.0<br>15.0<br>0.0*<br>10.0   | Spacing<br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code  | 2-0-0<br>1.15<br>1.15<br>YES<br>IBC2018                        | 3/TPI2014  | CSI<br>TC<br>BC<br>WB<br>Matrix-SH  | 0.73<br>0.55<br>0.92  | DEFL<br>Vert(LL)<br>Vert(CT)<br>Horz(CT)   | in<br>-0.27<br>-0.54<br>0.02   | (loc)<br>13<br>13<br>10 | l/defl<br>>999<br>>643<br>n/a | L/d<br>240<br>180<br>n/a | PLATES<br>MT20<br>Weight: 213 lb | <b>GRIP</b><br>185/148<br>FT = 10% |
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>BRACING<br>TOP CHORD<br>BOT CHORD<br>REACTIONS<br>FORCES<br>TOP CHORD<br>BOT CHORD<br>WEBS | 2x6 DF No.2<br>2x6 DF No.2<br>2x4 HF No.2<br>2x4 HF No.2<br>Structural wood she<br>3-5-10 oc purlins, e<br>Rigid ceiling directly<br>bracing.<br>(size) 10=0-5-8,<br>Max Horiz 18=60 (LC<br>Max Uplift 10=-75 (L<br>18=-246 (<br>Max Grav 10=1273<br>18=13 (LC<br>(lb) - Maximum Com<br>Tension<br>1-18=-24/295, 9-10=<br>1-2=-141/1017, 2-3=<br>3-5=-1968/280, 5-6=<br>6-8=-3368/2545, 8-9=<br>17-18=-89/74, 16-17<br>14-16=-2290/338, 11<br>11-13=-445/3114, 10<br>3-16=1817/326, 1-1<br>2-17=-7/381, 2-16=-<br>3-14=-590/4395, 5-1 | athing directly applie<br>xcept end verticals.<br>applied or 4-9-6 oc<br>16=0-5-8, 18=0-5-8<br>C 11)<br>C 12), 16=-155 (LC<br>(LC 1), 16=2661 (LC<br>C 12)<br>npression/Maximum<br>=-1183/207,<br>=-335/2296,<br>=-3868/540,<br>=-3121/453<br>?=-1014/176,<br>3-14=-295/1961,<br>0-11=-34/96<br>I7=-1101/177,<br>1392/215,<br>14=-1056/250, | 1)<br>1)<br>1)<br>1)<br>12), 4)<br>1),<br>5)<br>6)<br>7)<br>LC | Wind: ASCE<br>Vasd=87mpl<br>II; Exp B; En<br>and C-C Cor<br>15-1-12 to 22<br>cantilever lef<br>right expose<br>for reactions<br>DOL=1.60<br>Provide aded<br>This truss ha<br>chord live loa<br>* This truss ha<br>chord live loa<br>* This truss for<br>3-06-00 tall to<br>chord and ar<br>All bearings<br>capacity of 4<br>Provide mec<br>bearing plate<br>joint 18, 75 II<br>16.<br>This truss is<br>International<br>referenced s | 7-16; Vult=110m,<br>h; TCDL=4.2psf; E<br>closed; MWFRS (<br>rner (3) 0-1-12 to<br>2-0-4, Corner (3) 2<br>ft and right expose<br>d;C-C for member<br>shown; Lumber D<br>quate drainage to<br>as been designed<br>ad nonconcurrent<br>has been designed<br>ad nonconcurrent<br>has been designed<br>to bo y 2-00-00 wide w<br>y 2-00-00 wide w<br>y 000 wide w<br>to 200 wide w<br>to 200-00 wide w<br>to 200 | ph (3-sec<br>3CDL=6.(<br>(enveloped<br>15-1-12, 1<br>22-0-4 to<br>ed; end v<br>s and for<br>DOL=1.6(<br>prevent v<br>for a 10.0<br>with any<br>d for a liv<br>as where<br>vill fit betw<br>e HF No.<br>n (by oth<br>tanding 2<br>and 155 l<br>rdance wi<br>cction 230(<br>11. | ond gust)<br>opsf; h=25ft;<br>) exterior zo<br>Exterior (2)<br>37-0-4 zone<br>ertical left ar<br>ces & MWFF<br>) plate grip<br>vater pondin.<br>) psf bottom<br>other live loz<br>e load of 20.<br>a rectangle<br>reen the bott<br>2 crushing<br>ers) of truss i<br>46 lb uplift at join<br>th the 2018<br>6.1 and | Cat.<br>ne<br>id<br>id<br>id<br>S<br>g<br>uds.<br>Opsf<br>om<br>to<br>t<br>t |                         |                               |                          | LAOMING<br>HAOMING               | 3 ZHAO                             |
|  | 5-13=-263/1967, 6-1<br>8-13=-107/783, 8-11<br>9-11=-432/3171  | 13=-580/181,<br>1=-841/237,   |  |  |   |   |  |  |                         |                               | 1                        |                                  | A KENDE                            |

NOTES



| Job     | Truss | Truss Type                | Qty | Ply | MKM LEGACY EAST TOWN CROSSING BLD G   |
|---------|-------|---------------------------|-----|-----|---------------------------------------|
| 3907862 | N10   | Monopitch Supported Gable | 2   | 1   | R81482234<br>Job Reference (optional) |

Run: 8,63 S Nov 1 2023 Print: 8,630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 25 09:36:50 ID:Ai3Oen6\_ligqnKswWS?PnezZ0pW-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f







#### Scale = 1:64.5

| Plate Offsets (   | X, Y): [5:0-4-0  | 0,0-4-8],  | [34:0-4-0,0-4-8]   |   |   |  |   |  |                              |  |  |  |  |  |
|---|--|--|--|---|---|--|---|--|------------------------------|--|--|--|--|--|
| Loading<br>TCLL (roof)<br>TCDL<br>BCLL  |  | (psf)<br>25.0<br>15.0<br>0.0*  | <b>Spacing</b><br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr  | 2-0-0<br>1.15<br>1.15<br>YES                |   | CSI<br>TC<br>BC<br>WB  | 0.09<br>0.11<br>0.16  | DEFL<br>Vert(LL)<br>Vert(CT)<br>Horz(CT)   | in<br>-0.01<br>-0.01<br>0.00 | (loc)<br>37<br>37-38<br>36                               | l/defl<br>>999<br>>999<br>n/a  | L/d<br>240<br>180<br>n/a   | PLATES<br>MT20   | <b>GRIP</b><br>185/148   |
| BCDL  |  | 10.0   | Code   | IBC201                                      | 8/TPI2014   | Matrix-SH  |   |  |                              |  |  |  | Weight: 201 lb   | FT = 10%   |
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>OTHERS<br>BRACING<br>TOP CHORD  | 2x6 DF No.2<br>2x6 DF No.2<br>2x4 HF No.2<br>2x4 HF No.2<br>Structural w | 2<br>2<br>2<br>2<br>2<br>2<br>2<br>2   | thing directly applie  | T<br>ed or B                                | OP CHORD  | 1-38=-319/71, 1-2<br>3-4=-39/29, 4-6=-<br>7-8=-34/28, 8-9=-<br>10-11=-30/27, 11-<br>14-15=-28/27, 15-<br>17-18=-29/31, 18-<br>37-38=-93/92, 36-<br>35-36=-31/32, 33-   | =-431/58<br>38/28, 6-<br>33/27, 9-<br>12=-29/2<br>16=-28/2<br>19=-29/3<br>37=-112/<br>35=-31/3  | 2, 2-3=-42/30,<br>7=-36/28,<br>10=-32/27,<br>16, 12-14=-28/<br>8, 16-17=-29/<br>22, 19-20=-26/<br>428,<br>12, 32-33=-31/ | /26,<br>/30,<br>/16<br>/32,  | 7) Th<br>ch<br>8) * T<br>on<br>3-(<br>ch<br>9) All<br>ca | his truss h<br>ord live lo<br>This truss<br>the botto<br>06-00 tall<br>ord and a<br>l bearings<br>pacity of                            | as bee<br>bad nor<br>has be<br>m cho<br>by 2-0<br>ny oth<br>are as<br>405 ps           | en designed for a<br>nconcurrent with<br>een designed for<br>rd in all areas w<br>0-00 wide will fit<br>er members.<br>ssumed to be HI<br>i.                                       | a 10.0 psf bottom<br>a any other live loads.<br>r a live load of 20.0psf<br>here a rectangle<br>t between the bottom<br>F No.2 crushing  |
| BOT CHORD   | B-0-0 oc pur<br>Rigid ceiling<br>bracing, E><br>10-0-0 oc br             | directly<br>cept:<br>ccept: 37   | applied or 6-0-0 oc<br>7-38,36-37.   |   |   | 31-32=-31/32, 30-<br>28-29=-31/32, 27-<br>24-25=-31/32, 23-  | 31=-31/3<br>28=-31/3<br>24=-31/3  | 2, 29-30=-31/<br>2, 25-27=-31/<br>2, 22-23=-31/  | /32,<br>/32,<br>/32,         | 10) Pr<br>be<br>38                                       | ovide me<br>aring plat<br>3, 2 lb upli   | chanic<br>e capa<br>ft at joi  | al connection (b<br>able of withstand<br>int 20, 34 lb uplit   | y others) of truss to<br>Jing 23 lb uplift at joint<br>ft at joint 36, 6 lb uplift   |
| REACTIONS   | (size) 22<br>23<br>30<br>33<br>Max Horiz 34<br>Max Uplift 20             | 0=29-4-0<br>3=29-4-0<br>7=29-4-0<br>0=29-4-0<br>3=29-4-0<br>6=29-4-0<br>8=60 (LC<br>0=-2 (LC | , 21=29-4-0, 22=29,<br>, 24=29-4-0, 25=29,<br>, 28=29-4-0, 29=29,<br>, 31=29-4-0, 32=29,<br>, 34=29-4-0, 35=29,<br>, 38=0-5-8<br>11)<br>12), 21=-9 (LC 8), | -4-0, V<br>-4-0,<br>-4-0,<br>-4-0,<br>-4-0, | VEBS  | 21-22=-31/32, 20-<br>3-36=-300/86, 2-3<br>2-36=-467/98, 4-3<br>6-33=-160/51, 7-3<br>9-30=-160/50, 10-<br>11-28=-160/51, 12<br>14-25=-160/51, 15<br>16-23=-159/51, 17<br>18-21=-129/45  | 21=-31/3<br>7=-123/8<br>5=-93/37<br>2=-160/5<br>29=-160/<br>2-27=-160<br>5-24=-160<br>7-22=-168   | 22<br>9, 1-37=-70/4<br>7, 5-34=-170/5<br>11, 8-31=-160/<br>/51,<br>0/51,<br>0/51,<br>8/54,                               | 26,<br>54,<br>750,           | at<br>12<br>at<br>12<br>at<br>an<br>11) Th<br>Int        | joint 35, 1<br>2 Ib uplift a<br>joint 30, 1<br>2 Ib uplift a<br>joint 24, 1<br>ad 9 Ib upl<br>his truss is<br>ternationa<br>ferenced 3 | 12 ID U<br>at joint<br>12 Ib U<br>at joint<br>12 Ib U<br>ift at jo<br>desig<br>I Build | plift at joint 34, 1<br>32, 12 lb uplift a<br>plift at joint 29, 1<br>27, 12 lb uplift a<br>plift at joint 23, 1<br>int 21.<br>ned in accordan<br>ing Code sectio<br>rd ANSI/TPI 1 | 2 Ib uplift at joint 33,<br>t joint 31, 12 Ib uplift<br>2 Ib uplift at joint 28,<br>it joint 25, 12 Ib uplift<br>2 Ib uplift at joint 22<br>ince with the 2018<br>n 2306.1 and |
| Max Horiz $38=60$ (LC 11) $16-23=-159/51, 17$<br>$18-21=-129/45$ Max Uplifi $20=-2$ (LC 12), $21=-9$ (LC 8),<br>$24=-12$ (LC 12), $25=-12$ (LC 8),<br>$27=-12$ (LC 12), $20=-12$ (LC 12), $30=-12$ (LC 12),<br>$31=-12$ (LC 8), $32=-12$ (LC 12),<br>$33=-12$ (LC 8), $32=-12$ (LC 12),<br>$35=-6$ (LC 8), $36=-34$ (LC 12),<br>$35=-6$ (LC 8), $36=-34$ (LC 12),<br>$38=-23$ (LC 8)NOTESMax Grav $20=28$ (LC 1), $21=166$ (LC 1),<br>$22=209$ (LC 1), $23=199$ (LC 1),<br>$24=200$ (LC 1), $22=200$ (LC 1),<br>$23=-200$ (LC 1), $32=200$ (LC 1),<br>$33=196$ (LC 1), $32=201$ (LC 1),<br>$33=196$ (LC 1), $34=224$ (LC 1),<br>$33=372$ (LC 1) $16-23=-159/51, 17$<br>$18-21=-129/45$ NotesNotesNotesNotesNotesNotesNotesNacora $20=20$ (LC 1), $21=166$ (LC 1),<br>$21=200$ (LC 1), $32=200$ (LC 1),<br>$31=200$ (LC 1), $32=201$ (LC 1),<br>$33=196$ (LC 1), $34=224$ (LC 1),<br>$35=79$ (LC 1), $36=614$ (LC 1),<br>$38=372$ (LC 1)Notes< |  |  |  |   |   | ph (3-sec<br>3CDL=6.0<br>envelope<br>15-1-12, 1<br>22-0-4 to<br>ad; end v<br>s and for<br>S and f | cond gust)<br>Dpsf; h=25ft; (<br>e) exterior zon<br>Exterior (2)<br>37-0-4 zone;<br>vertical left and<br>cces & MWFR<br>plate grip<br>lane of the tru<br>al to the face)<br>ils as applicat<br>is per ANSI/TF<br>water ponding<br>se indicated. | Cat.<br>le<br>S<br>S<br>ss<br>l,<br>Dle,<br>PI 1.<br>J.  | LOAD                         | CASE(S)  | ) Star   | HANNIN THE   | IG ZHAO<br>ASHINGTON<br>199<br>074<br>TEBED CITIC  |  |
| FORCES  | (lb) - Maxim<br>Tension  | um Com   | pression/Maximum   | 5<br>6                                      | <ul> <li>I russ to be<br/>braced agai</li> <li>Gable studs</li> </ul> | tully sheathed fron<br>nst lateral moveme<br>spaced at 2-0-0 o   | n one fac<br>ent (i.e. d<br>.c.   | e or securely<br>liagonal web).  |                              |  |  |  | SSION  | ALENC  |

March 26,2024

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 BLD G   |
|---------|-------|---------------------------|-----|-----|---------------------------------------|
| 3907862 | N11   | Monopitch Supported Gable | 2   | 1   | R81482235<br>Job Reference (optional) |

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 25 09:36:50 ID:]7farKKLWkPVOr4Kw9J5NxzZ0nx-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



March 26,2024

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29-4-0

Scale = 1:52.5

| Loading     |               | (psf)                  | Spacing  | 2-0-0             |                  | CSI                                    |              | DEFL                 | in          | (loc)         | l/defl     | L/d                  | PLATES                 | GRIP                |       |
|-------------|---------------|------------------------|--|-------------------|------------------|--|--------------|----------------------|-------------|---------------|------------|----------------------|------------------------|---------------------|-------|
| TCLL (roof) |               | 25.0                   | Plate Grip DOL                                   | 1.15              |                  | тс                                     | 0.08         | Vert(LL)             | n/a         | -             | n/a        | 999                  | MT20                   | 185/148             |       |
| TCDL        |               | 15.0                   | Lumber DOL                                       | 1.15              |                  | BC                                     | 0.07         | Vert(TL)             | n/a         | -             | n/a        | 999                  |                        |                     |       |
| BCLL        |               | 0.0*                   | Rep Stress Incr                                  | YES               |                  | WB                                     | 0.02         | Horiz(TL)            | 0.00        | 18            | n/a        | n/a                  |                        |                     |       |
| BCDL        |               | 10.0                   | Code   | IBC201            | 8/TPI2014        | Matrix-R                               |              |                      |             |               |            |                      | Weight: 130 lb         | FT = 10%            |       |
|             |               |                        |  |                   |                  |  |              | · · ·                |             |               |            |                      |                        |                     |       |
| LUMBER      |               |                        |  | т                 | OP CHORD         | 1-34=-49/36, 1-2=                      | -24/21, 2    | -3=-22/20,           |             | 9) * Th       | is truss   | has be               | en designed for        | a live load of 20.  | 0psf  |
| TOP CHORD   | 2x6 DF No     | o.2                    |  |                   |                  | 3-4=-20/20, 4-5=-                      | 19/19, 5-6   | 5=-19/19,            |             | on ti         | ne botto   | m cho                | rd in all areas wh     | ere a rectangle     |       |
| BOT CHORD   | 2x4 HF No     | o.2                    |  |                   |                  | 5-7=-19/19, 7-8=-                      | 18/20, 8-9   | 9=-18/22,            |             | 3-06          | 6-00 tall  | by 2-0               | 0-00 wide will fit     | between the bott    | om    |
| WEBS        | 2x4 HF No     | 0.2                    |  |                   |                  | 9-11=-18/23, 11-1                      | 2=-18/25     | , 12-13=-18/2        | 27,         |               | d and a    | ny otn               | er members.            |                     |       |
| OTHERS      | 2x4 HF No     | o.2                    |  |                   |                  | 13-14=-18/28, 14-                      | 15=-19/3     | 0, 15-16=-19         | /31,        | 10) All b     | earings    | are as               | sumed to be HF         | No.2 crushing       |       |
| BRACING     |               |                        |  | Б                 |                  | 10-1/=-19/33, 1/-                      | 22 42/4      | 9<br>0 21 22 12      | /40         | (11) Drov     | ido mor    | 405 ps               | I.                     | othere) of truce    | to    |
| TOP CHORD   | Structural    | wood shea              | athing directly applie                           | dor <sup>D</sup>  |                  | 55-54=-45/49, 52-<br>20 21 42/40 20    | 20 42/4      | 9, 31-32=-43         | /49,<br>/40 | 11) PIO       | ing plot   |                      | al connection (by      | ouriers) or truss   | ioint |
|             | 6-0-0 oc p    | ourlins, exc           | cept end verticals.                              |                   |                  | 50-51=-45/49, 29-<br>27-28=-13/10, 26. | 27_12/4      | 9,20-29=-43          | /49,<br>//0 | 24 ·          | 12 lb un   | e capa<br>lift at id | bie of withstand       | ig 19 ib uplit at j | b     |
| BOT CHORD   | Rigid ceili   | ng directly            | applied or 10-0-0 oc                             |                   |                  | 27-20=-43/43, 20-                      | 27 = 43/4    | 0,24-20=-43          | /40         | unlif         | t at ioint | 20 1                 | 2 lb unlift at joint ' | 21 12 lb unlift at  | ioint |
|             | bracing.      |                        |  |                   |                  | 20-21=-43/49 19-                       | 20= 43/4     | 9 18-19=-43          | /49         | 22            | 12 lh un   | lift at id           | pint 23 12 lb unlit    | it at ioint 24 12 l | h     |
| REACTIONS   | (size)        | 18=29-4-0              | , 19=29-4-0, 20=29-                              | 4-0, <sub>M</sub> | /FBS             | 16-19=-166/65 1                        | 5-20=-16     | 0, 10 10- 10<br>1/63 | , 10        | uplif         | t at ioint | 26 12                | 2 lb uplift at joint 3 | 27 12 lb unlift at  | ioint |
|             |               | 21=29-4-0              | ), 22=29-4-0, 23=29-                             | 4-0,              |                  | 14-21=-160/60, 13                      | 3-22=-160    | )/60.                |             | 28.           | 12 lb up   | lift at id           | pint 29. 12 lb upli    | t at joint 30. 11   | b     |
|             |               | 24=29-4-0              | , 26=29-4-0, 27=29-                              | 4-0,              |                  | 12-23=-160/60. 1                       | 1-24=-160    | 0/60.                |             | uplif         | t at joint | 31, 14               | 4 lb uplift at joint 3 | 32 and 40 lb uplif  | ft at |
|             |               | 28=29-4-0              | ), 29=29-4-0, 30=29-                             | 4-0,              | 9                | 9-26=-160/60, 8-2                      | 7=-160/6     | 0, 7-28=-160         | /60,        | joint         | 33.        | ,                    | . ,                    | ·                   |       |
|             |               | 31=29-4-0              | ), 32=29-4-0, 33=29-                             | 4-0,              | (                | 6-29=-160/60, 5-3                      | 0=-160/6     | 0, 4-31=-159         | /60,        | ,<br>12) This | truss is   | desig                | ned in accordanc       | e with the 2018     |       |
|             | Marcal Landar | 34=29-4-0              |  |                   | :                | 3-32=-166/63, 2-3                      | 3=-135/1     | 01                   |             | Inter         | rnationa   | l Build              | ing Code section       | 2306.1 and          |       |
|             | Max Horiz     | 34=62 (LC              | (11)   | N                 | OTES             |  |              |                      |             | refe          | renced s   | standa               | rd ANSI/TPI 1.         |                     |       |
|             | Max Oplin     | 18=-12 (L              | C 9), 19=-17 (LC 8),<br>C 12) 21-12 (LC 8)       | 1                 | ) Wind: ASCE     | 7-16: Vult=110m                        | ph (3-sec    | ond aust)            |             | LOAD C        | ASE(S)     | Sta                  | ndard                  |                     |       |
|             |               | 20=-11 (L              | C 12), Z I =- 12 (LC 0)<br>C 12), 22 = 12 (LC 9) | ,                 | Vasd=87mpl       | n; TCDL=4.2psf; E                      | SCDL=6.0     | )psf; h=25ft; (      | Cat.        |               |            |                      |                        |                     |       |
|             |               | 22=-12 (L)<br>2412 (L) | C 12), 23=-12 (LC 8)                             | ,                 | II; Exp B; En    | closed; MWFRS                          | envelope     | ) exterior zor       | ne          |               |            |                      |                        |                     |       |
|             |               | 27-12 (1)              | C 12), 28–12 (LC 8)                              | ,                 | and C-C Cor      | ner (3) zone; can                      | tilever left | and right            |             |               |            |                      |                        |                     |       |
|             |               | 29=-12 (1)             | C 12), 20= 12 (LC 8)                             | ,                 | exposed ; er     | d vertical left and                    | right exp    | osed;C-C for         |             |               |            |                      |                        |                     |       |
|             |               | 31=-11 (1)             | C 12), 32=-14 (LC 8)                             | ,                 | members an       | d forces & MWFR                        | S for rea    | ctions shown         | ;           |               |            |                      |                        |                     |       |
|             |               | 33=-40 (L              | C 9), 34=-19 (LC 8)                              | ,                 | Lumber DOL       | .=1.60 plate grip [                    | DOL=1.60     | )                    |             |               |            |                      |                        |                     |       |
|             | Max Grav      | 18=77 (LC              | C 1), 19=208 (LC 1),                             | 2                 | ) Truss desig    | ned for wind loads                     | s in the pl  | ane of the tru       | ISS         |               |            |                      |                        |                     |       |
|             |               | 20=200 (L              | C 1), 21=200 (LC 1)                              |                   | only. For stu    | ids exposed to wi                      | nd (norm     | al to the face)      | ),          |               |            |                      | OMIN                   | G ZD                |       |
|             |               | 22=200 (L              | C 1), 23=200 (LC 1)                              | ,<br>,            | see Standar      | d Industry Gable I                     | End Detai    | Is as applicat       | ble,        |               |            |                      | JAC WA                 | A A                 |       |
|             |               | 24=200 (L              | C 1), 26=200 (LC 1)                              | ,                 | or consult qu    | alified building de                    | esigner as   | s per ANSI/TF        | PI 1.       |               |            | 7                    | OFWA                   |                     |       |
|             |               | 27=200 (L              | C 1), 28=200 (LC 1)                              | , 3               | ) Provide adeo   | quate drainage to                      | prevent v    | vater ponding        | <b>j</b> .  |               |            | 7                    | 150 51                 | S 19                | -     |
|             |               | 29=200 (L              | C 1), 30=200 (LC 1)                              | , 4               | ) All plates are | 2x4 M120 unles                         | s otherwi    | se indicated.        |             |               |            | -                    |                        | S 9                 |       |
|             |               | 31=199 (L              | .C 1), 32=208 (LC 1)                             | , 5               | ) Gable requir   | es continuous bol                      | tom chor     | d bearing.           |             |               |            | -                    |                        |                     |       |
|             |               | 33=169 (L              | .C 1), 34=68 (LC 20)                             | 6                 | ) I russ to be f | ully sheathed from                     | n one fac    | e or securely        |             |               |            |                      |                        | 🔀 🔰                 |       |
| FORCES      | (lb) - Maxi   | imum Com               | pression/Maximum                                 | -                 | braced agair     | ist lateral movem                      | ent (I.e. a  | iagonai web).        | •           |               |            |                      |                        |                     |       |
|             | Tension       |                        |  | 1                 | ) Gable studs    | spaced at 2-0-0 d                      | iC.          | ) mof hottom         |             |               |            |                      | 540                    | 74 18               |       |
|             |               |                        |  | 8                 | ) This truss ha  | is been designed                       | with any     | other live less      | de          |               |            |                      | ON REGION              | TREY A              |       |
|             |               |                        |  |                   |                  |  | with any     |                      | us.         |               |            | -                    | Econst                 | ar l                | 6     |
|             |               |                        |  |                   |                  |  |              |                      |             |               |            |                      | SIONA                  | LEN                 |       |
|             |               |                        |  |                   |                  |  |              |                      |             |               |            |                      |                        |                     |       |

| Job     | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING BLD G   |
|---------|-------|------------|-----|-----|---------------------------------------|
| 3907862 | N12   | Monopitch  | 12  | 1   | R81482236<br>Job Reference (optional) |

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 25 09:36:50 ID:zZ\_EPXVdMjy5NLGkvF038hzZ0l8-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



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



Scale = 1:57.1

| Plate Offsets (  | X, Y): [1:0-2-4,0-2-8],  | , [2:0-1-12,0-1-8], [8:  | 0-3-7,0-2-0  | ], [10:Edge,0-  | 1-8], [11:0-3-0,0-3-  | 0], [14:0  | )-1-12,0-1-8],   | [15:0-2-                              | 0,0-1-12                      | 2]                            |  |  |   |  |
|--|--|--|--|---|---|--|--|---------------------------------------|-------------------------------|-------------------------------|--|--|---|--|
| Loading<br>TCLL (roof)<br>TCDL<br>BCLL<br>BCDL   | (psf)<br>25.0<br>15.0<br>0.0*<br>10.0  | Spacing<br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code   | 2-0-0<br>1.15<br>1.15<br>YES<br>IBC2018                                | 3/TPI2014   | CSI<br>TC<br>BC<br>WB<br>Matrix-SH  | 0.53<br>0.86<br>0.95   | DEFL<br>Vert(LL)<br>Vert(CT)<br>Horz(CT)   | in<br>-0.42<br>-0.84<br>0.12          | (loc)<br>11-13<br>11-13<br>10 | l/defl<br>>859<br>>428<br>n/a | L/d<br>240<br>180<br>n/a                 | PLATES<br>MT20<br>M18AHS<br>Weight: 156 lb | <b>GRIP</b><br>185/148<br>169/162<br>FT = 10% |  |
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>BRACING<br>TOP CHORD<br>WEBS<br>REACTIONS<br>FORCES<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>NOTES<br>1) Wind: ASC | 2x6 DF No.2<br>2x4 DF 1800F 1.6E<br>2x4 HF No.2<br>Structural wood she<br>2-8-15 oc purlins, e<br>Rigid ceiling directly<br>bracing.<br>1 Row at midpt<br>(size) 10–0-3-8,<br>Max Horiz 16=59 (LC<br>Max Uplift 10=-119 (<br>(b) - Maximum Com<br>1-16=-1442/279, 1-2<br>2-3=-4700/813, 3-5=<br>5-7=-4139/725, 7-8=<br>8-10=-1599/362<br>15-16=-99/117, 14-1<br>13-14=-874/4697, 1:<br>10-11=-27/106<br>2-15=-1144/258, 3-1<br>5-13=-113/127, 7-11<br>1-15=-527/2996, 2-1<br>3-13=-160/943, 5-11<br>8-11=-741/4198<br>CE 7-16; Vult=110mph | Pathing directly applie<br>except end verticals.<br><sup>7</sup> applied or 7-4-9 oc<br>5-11<br>, 16=0-5-8<br>C 9)<br>(LC 12), 16=-88 (LC -<br>(LC 1), 16=1497 (LC<br>apression/Maximum<br>2=-2827/500,<br>=-5613/967,<br>=-4140/731, 8-9=-4/0<br>15=-564/2822,<br>1-13=-1006/5606,<br>14=-736/216,<br>1=-622/238,<br>14=-357/2061,<br>1=-1530/278,<br>(3-second gust) | 2)<br>3)<br>4)<br>5)<br>d or<br>6)<br>7)<br>8)<br>8)<br>8)<br>1)<br>LC | Provide ader<br>All plates are<br>This truss ha<br>chord live loa<br>* This truss f<br>on the bottor<br>3-06-00 tall b<br>chord and ar<br>All bearings<br>capacity of 4<br>Provide mec<br>bearing plate<br>16 and 119 I<br>This truss is<br>International<br>referenced s<br>AD CASE(S) | quate drainage to p<br>w MT20 plates unlex<br>is been designed fi<br>ad nonconcurrent w<br>has been designed<br>n chord in all areas<br>by 2-00-00 wide wil<br>y other members.<br>are assumed to be<br>05 psi.<br>hanical connection<br>e capable of withsta<br>b uplift at joint 10.<br>designed in accord<br>Building Code sec<br>tandard ANSI/TPI<br>Standard | revent v<br>ress other<br>or a 10.0<br>vith any<br>for a liv<br>for a liv<br>s where<br>I fit betw<br>HF No.<br>(by oth<br>anding 8<br>lance w<br>tion 230<br>1. | water ponding<br>wise indicate<br>) psf bottom<br>other live loa<br>e load of 20.0<br>a rectangle<br>veen the botto<br>2 crushing<br>ers) of truss t<br>8 lb uplift at j<br>ith the 2018<br>16.1 and | g.<br>.d.<br>Dpsf<br>om<br>to<br>oint |                               |                               | J. J | TUA OMING                                  | ZHAO<br>HIGTON                                |  |
| Vasd=87m<br>II; Exp B; I<br>and C-C C<br>15-1-12 to<br>cantilever<br>right expos<br>for reaction<br>DOL=1.60   | ph; TCDL=4.2ps; BC<br>Enclosed; MWFRS (er<br>Corner (3) 0-1-12 to 15<br>17-4-4, Corner (3) 17<br>left and right exposed<br>sed;C-C for members<br>shown; Lumber DO   | (U-second gust)<br>DL=6.0psf; h=25ft; C<br>nvelope) exterior zon<br>-1-12, Exterior (2)<br>-4-4 to 32-4-4 zone;<br>; end vertical left and<br>and forces & MWFR<br>DL=1.60 plate grip  | cat.<br>e<br>d<br>S  |   |   |  |  |                                       |                               |                               |  | ALCONTESSIONAL<br>March                    | 4<br>ENGINE<br>26,2024                        |  |
|  |  |  |  |   |   |  |  |                                       |                               |                               |  |  |   |  |

| Job     | Truss | Truss Type                | Qty | Ply | MKM LEGACY EAST TOWN CROSSING BLD G   |
|---------|-------|---------------------------|-----|-----|---------------------------------------|
| 3907862 | N13   | Monopitch Supported Gable | 2   | 1   | R81482237<br>Job Reference (optional) |

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 25 09:36:50 ID:c36Ath\_u3\_rid9KZkBWx4azZ?va-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





29-4-0

Scale = 1:52.5

| Plate Offsets (  | X, Y): [9:0-   | -4-0,0-4-8],   | [24:0-3-0,0-3-0]   |  |   |  |  |   |  |  |   |   |   |   |
|--|--|--|--|--|---|--|--|---|--|--|---|---|---|---|
| Loading<br>TCLL (roof)<br>TCDL<br>BCLL<br>BCDL   |  | (psf)<br>25.0<br>15.0<br>0.0*<br>10.0                | <b>Spacing</b><br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code  | 2-0-0<br>1.15<br>1.15<br>NO<br>IBC20 <sup>2</sup>  | 18/TPI2014  | CSI<br>TC<br>BC<br>WB<br>Matrix-R  | 0.16<br>0.07<br>0.15   | <b>DEFL</b><br>Vert(LL)<br>Vert(TL)<br>Horiz(TL)  | in<br>n/a<br>n/a<br>0.00   | (loc)<br>-<br>-<br>17  | l/defl<br>n/a<br>n/a<br>n/a   | L/d<br>999<br>999<br>n/a  | PLATES<br>MT20<br>Weight: 131 lb  | <b>GRIP</b><br>185/148<br>D FT = 10%  |
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>OTHERS<br>BRACING<br>TOP CHORD<br>BOT CHORD<br>REACTIONS | 2x6 DF N<br>2x4 HF N<br>2x4 HF N<br>2x4 HF N<br>Structural<br>6-0-0 oc ţ<br>Rigid ceili<br>bracing.<br>(size)<br>Max Horiz<br>Max Uplift<br>Max Uplift<br>Max Grav | 0.2<br>0.2<br>0.2<br>0.2<br>0.2<br>0.2<br>0.2<br>0.2 | athing directly applie-<br>cept end verticals.<br>applied or 10-0-0 oc<br>), 18=29-4-0, 19=29-<br>), 21=29-4-0, 22=29-<br>0, 24=29-4-0, 25=29-<br>), 27=29-4-0, 28=29-<br>0, 27=29-4-0, 31=29-<br>0, 30=29-4-0, 31=29-<br>0, 30=29-4-0, 31=29-<br>0, 30=29-4-0, 31=29-<br>0, 20=-51 (LC 8),<br>C 12), 20=-61 (LC 12)<br>C 8), 28=-12 (LC 8),<br>C 12), 22=-16 (LC 12)<br>C 8), 28=-12 (LC 12)<br>C 8), 28=-12 (LC 12)<br>C 8), 28=-15 (LC 8)<br>C 1), 18=853 (LC 1)<br>(LC 1), 20=1036 (LC 1)<br>C 1), 24=200 (LC 1)<br>C 1), 24=200 (LC 1)<br>C 1), 28=70 (LC 20)<br>pression/Maximum | T<br>d or E<br>4-0, V<br>4-0, V<br>4-0, 1<br>2, 1<br>, 2, 1<br>, 2, 3<br>, 4<br>, 3<br>, 4<br>, 7<br>8 | OP CHORD<br>BOT CHORD<br>BOT CHORD<br>VEBS<br>VEBS<br>VEBS<br>Vasd=87mp<br>II; Exp B;<br>and C-C Cc<br>exposed ; e<br>members a<br>Lumber DO<br>C) Truss desig<br>only. For si<br>see Standa<br>or consult q<br>D) All plates an<br>D) Gable requi<br>D) Truss to be<br>braced aga<br>Chord live lo | 1-32=-63/40, 1-2=<br>3-4=-19/14, 4-5=-<br>6-7=-18/18, 7-8=-<br>10-11=-16/23, 11<br>13-14=-21/30, 14<br>16-17=-213/71<br>31-32=-48/54, 30<br>28-29=-48/54, 27<br>25-26=-48/54, 23<br>21-22=-47/53, 20<br>18-19=-47/53, 17<br>2-31=-165/102, 3<br>5-28=-160/60, 6-2<br>8-25=-159/63, 9-2<br>11-22=-237/76, 1<br>13-20=-996/213,<br>15-18=-818/179<br>E 7-16; Vult=110m<br>sh; TCDL=4.2psf;<br>nclosed; MWFRS<br>orner (3) zone; can<br>ind vertical left and<br>ch forces & MWFF<br>L=1.60 plate grip I<br>gned for wind load<br>tuds exposed to w<br>ref load trainage to<br>re 2x4 MT20 unless<br>res continuous bo<br>fully sheathed from<br>inst lateral movem<br>is paced at 2-0-0<br>as been designed<br>bad nonconcurrent | =-20/16, 2<br>=-20/16, 2<br>-18/14, 5-<br>-17/19, 8-<br>-12=-17/2<br>-15=-22/3<br>-31=-48/5<br>-25=-48/5<br>-25=-48/5<br>-25=-48/5<br>-25=-48/5<br>-25=-48/5<br>-21=-47/5<br>-30=-160/6<br>24=-162/6<br>22-21=-87<br>14-19=-1<br>mph (3-sec<br>BCDL=6.<br>(envelope<br>tillever lef<br>d right exx<br>RS for rea<br>DOL=1.6/<br>Is in the p<br>ind (norme<br>End Deta<br>esigner a:<br>p revent 'i<br>ss otherwittom choo<br>m one fac<br>enent (i.e. co<br>co.<br>I for a 10.<br>t with any | 2-3=-19/14,<br>6=-18/16,<br>10=-17/22,<br>25, 12-13=-21/<br>31, 15-16=-21/<br>54, 29-30=-48/<br>54, 26-27=-48/<br>54, 26-27=-48/<br>54, 22-23=-47/<br>33, 19-20=-47/<br>33, 19-20=-47/<br>33, 19-20=-47/<br>33, 19-20=-47/<br>33, 19-20=-47/<br>33, 19-20=-47/<br>34, 22-23=-47/<br>35, 19-20=-47/<br>36, 4-29=-160/<br>39, 10-23=-140<br>70, 10-23=-140<br>71, 190, 0015/217,<br>20, 20, 20, 20, 20, 20, 20, 20, 20, 20, | 28,<br>32,<br>54,<br>53,<br>53,<br>53,<br>0/61,<br>62,<br>0/60,<br>2at.<br>e<br>ss<br>,<br>ble,<br>11. | 9) * Tr<br>on 1<br>3-0<br>cho<br>10) All I<br>cap<br>11) Pro<br>bea<br>32,<br>upli<br>23,<br>upli<br>23,<br>upli<br>23,<br>upli<br>23,<br>upli<br>23,<br>Upli<br>21) This<br>refe<br><b>LOAD (</b><br>1) De<br>Pl;<br>Ur | his truss<br>his truss<br>he botto<br>6-00 tall<br>rd and a<br>bearings<br>acity of<br>vide me<br>ring pla<br>22 lb up<br>ft at join<br>12 lb up<br>ft at join<br>16 lb up<br>ft at join<br>t 18.<br>s truss is<br>renced<br><b>CASE(S</b><br>and + Re<br>ate Incre-<br>inform L-<br>Vert: 1- | has be<br>m cho<br>by 2-0<br>any oth<br>s are as<br>(405 ps<br>chanic<br>chanic<br>chanic<br>t 20, 1<br>lift at jt<br>t 20, 1<br>lift at jt<br>t 25, 1<br>lift at jt<br>t 25 | een designed fo<br>red in all areas w<br>0-00 wide will fi<br>er members.<br>ssumed to be H<br>i.<br>al connection (b<br>able of withstand<br>bint 17, 23 lb up<br>1 lb uplift at join<br>bint 27, 12 lb up<br>1 lb uplift at join<br>bint 22, 53 lb up<br>1 lb uplift at join<br>ned in accordar<br>ing Code sectio<br>rd ANSI/TPI 1.<br>ndard<br>a (balanced): Lu<br>.15<br>b/ft)<br>1, 16-33=-488, 1<br>1, 16-33=-588, 1<br>1, 16-358, 100, 100, 100, 100, 100, 100, 100, 10 | r a live load of 20.0psf<br>here a rectangle<br>t between the bottom<br>F No.2 crushing<br>ry others) of truss to<br>Jing 15 lb uplift at joint<br>lift at joint 31, 15 lb<br>t 29, 12 lb uplift at joint<br>lift at joint 26, 12 lb<br>t 24, 12 lb uplift at joint<br>lift at joint 21, 61 lb<br>t 19 and 58 lb uplift at<br>nee with the 2018<br>n 2306.1 and<br>Imber Increase=1.15,<br>7-32=-20 |
|  |  |  |  |  |   |  |  |   |  |  |   |   |   |   |

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)

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| Job     | Truss | Truss Type       | Qty | Ply | MKM LEGACY EAST TOWN CROSSING BLD G   |
|---------|-------|------------------|-----|-----|---------------------------------------|
| 3907862 | N14   | Monopitch Girder | 8   | 1   | R81482238<br>Job Reference (optional) |

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 25 09:36:50 ID:eTfiEx59?RgTQPJvebdgrHzZ?qG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



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Scale = 1:64.5

| Plate Offsets (  | (X, Y): [2:0-1-12,0-2-8]  | ], [4:0-2-4,0-2-0], [8:   | 0-3-7,0-2-8  | ], [9:0-3-0,0-1   | -0], [10:0-2-4,0-3-8  | ], [12:0-   | 2-4,0-2-0], [1   | 3:0-3-8,0   | )-2-0], [1                   | 5:0-2-0,                      | 0-2-0]                   |                                  |                                    |  |
|--|---|---|--|---|---|---|--|---|------------------------------|-------------------------------|--------------------------|----------------------------------|------------------------------------|--|
| Loading<br>TCLL (roof)<br>TCDL<br>BCLL<br>BCDL   | (psf)<br>25.0<br>15.0<br>0.0*<br>10.0   | Spacing<br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code  | 2-0-0<br>1.15<br>1.15<br>NO<br>IBC2018                         | 8/TPI2014   | CSI<br>TC<br>BC<br>WB<br>Matrix-SH  | 0.91<br>0.76<br>0.88  | DEFL<br>Vert(LL)<br>Vert(CT)<br>Horz(CT)   | in<br>-0.29<br>-0.58<br>0.03  | (loc)<br>10-12<br>10-12<br>9 | l/defl<br>>999<br>>596<br>n/a | L/d<br>240<br>180<br>n/a | PLATES<br>MT20<br>Weight: 212 lb | <b>GRIP</b><br>185/148<br>FT = 10% |  |
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>BRACING<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>REACTIONS<br>FORCES<br>TOP CHORD<br>BOT CHORD<br>WEBS | 2x6 DF No.2<br>2x6 DF No.2<br>2x4 HF No.2<br>2x4 HF No.2<br>Structural wood sheat<br>3-3-5 oc purlins, exa<br>Rigid ceiling directly<br>bracing.<br>1 Row at midpt<br>(size) 9=0-5-8, 1<br>Max Horiz 16=60 (LC<br>Max Uplift 9=-280 (LI<br>16=-139 (I<br>Max Grav 9=1350 (L<br>16=55 (LC<br>(Ib) - Maximum Com<br>Tension<br>1-16=-21/190, 1-2=-<br>2-4=-2398/469, 4-5=<br>5-7=-3533/1174, 7-8<br>8-9=-1249/412<br>15-16=-98/74, 13-15<br>12-13=-498/2390, 10<br>9-10=-49/118<br>2-15=-1906/478, 7-1<br>8-10=-1179/3557, 2- | athing directly applie<br>cept end verticals.<br>applied or 5-7-11 oc<br>8-10, 1-15<br>(5=0-5-8, 16=0-5-8<br>(211), 15=-291 (LC<br>LC 2)<br>.C 1), 15=2524 (LC -<br>(212))<br>pression/Maximum<br>417/1665,<br>-4186/1030,<br>=-1656/440,<br>)-12=-1046/4180,<br>0=-636/226,<br>13=-890/4180,<br>=-578/1859 | 1)<br>ed or<br>2)<br>3)<br>12), 4)<br>1), 5)<br>6)<br>7)<br>8) | Wind: ASCE<br>Vasd=87mpl<br>II; Exp B; En<br>and C-C Cor<br>15-1-12 to 22:<br>cantilever lef<br>right expose<br>for reactions<br>DOL=1.60<br>Provide adec<br>This truss ha<br>chord live loa<br>* This truss ha<br>chord live loa<br>* This truss ha<br>chord no and an<br>All bearings<br>capacity of 4<br>Provide mec<br>bearing plate<br>joint 16, 280<br>15.<br>This truss is<br>International<br>referenced su<br>Hanger(s) or<br>provided suf<br>Ib down and<br>deaim focloor | 7-16; Vult=110mp<br>; TCDL=4.2psf; Br<br>closed; MWFRS (e<br>ner (3) 0-1-12 to 1:<br>2-0-4, Corner (3) 2:<br>t and right exposed<br>;C-C for members<br>shown; Lumber Du<br>quate drainage to p<br>is been designed for<br>ad nonconcurrent v<br>has been designed mini-<br>by 2-00-00 wide will<br>y other members.<br>are assumed to be<br>05 psi.<br>hanical connectione<br>acapable of withsta<br>Ib uplift at joint 9 a<br>designed in accord<br>Building Code sec<br>tandard ANSI/TPI<br>other connection to<br>itige of auto acont | h (3-sec<br>CDL=6.0<br>envelope<br>5-1-12,<br>2-0-4 to<br>3; end 1,<br>2-0-4 to<br>4; end 1,<br>0-12-1.60<br>or event 1,<br>for a 10,<br>with any<br>for a 10,<br>with any<br>for a 10,<br>with any<br>for a 10,<br>by oth<br>anding 1<br>ance w<br>tion 230<br>1,<br>device (soncentra<br>1-8 on b | cond gust)<br>opsd; h=25ft; (<br>2) exterior zon<br>Exterior (2)<br>37-0-4 zone;<br>vertical left an<br>ces & MWFF<br>0) plate grip<br>water ponding<br>0 psf bottom<br>other live loa<br>e load of 20.0<br>a rectangle<br>ween the bottw<br>2 crushing<br>ers) of truss t<br>39 lb uplift at<br>b uplift at joir<br>ith the 2018<br>06.1 and<br>1) shall be<br>ated load(s) 3<br>ottom chord. | Cat.<br>ne<br>dd<br>SS<br>g.<br>ds.<br>Dpsf<br>om<br>o<br>t<br>t<br>00<br>The |                              |                               | نور                      | VIAOMINO<br>SEOF WA              | S ZHAO                             |  |
| NOTES  | 5-12=-344/224, 5-10<br>1-15=-1692/438   | l≕-768/346,   | 9)<br>LO<br>1)   | responsibility<br>In the LOAD<br>of the truss a<br>PAD CASE(S)<br>Dead + Roo<br>Plate Increa<br>Uniform Lo<br>Vert: 1-8<br>Concentrat<br>Vert: 10=  | v of others.<br>CASE(S) section,<br>are noted as front (i<br>Standard<br>of Live (balanced):<br>asse=1.15<br>ads (lb/ft)<br>=-80, 9-16=-20<br>ed Loads (lb)<br>61 (B)   | loads a <sub>l</sub><br>F) or ba<br>Lumber  | oplied to the f<br>ck (B).<br>Increase=1.  | face  |                              |                               |                          | THOMESSIONA<br>March             | 26,2024                            |  |

| Job     | Truss | Truss Type       | Qty | Ply | MKM LEGACY EAST TOWN CROSSING BLD G   |
|---------|-------|------------------|-----|-----|---------------------------------------|
| 3907862 | N14A  | Monopitch Girder | 2   | 1   | R81482239<br>Job Reference (optional) |

Run: 8,63 S Nov 1 2023 Print: 8,630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 25 09:36:50 Page: 1 ID:1UM\_orFFmKRacNButCHeO6zZ?mC-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f







#### Scale = 1:52.3

#### Plate Offsets (X, Y): [6:0-3-7,0-2-0], [7:Edge,0-3-8], [8:0-3-4,0-4-0], [11:0-1-12,0-3-4]

|   | ()) [];   | 1 3   | 1                                      |  | - 1  |   |   |   |                            |                               |                          |                                  |                                    |   |
|---|---|---|--|--|--|---|---|---|----------------------------|-------------------------------|--------------------------|----------------------------------|------------------------------------|---|
| Loading<br>TCLL (roof)<br>TCDL<br>3CLL<br>3CDL  | (psf)<br>25.0<br>15.0<br>0.0 *<br>10.0  | Spacing<br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code  | 2-0-0<br>1.15<br>1.15<br>NO<br>IBC2018 | 3/TPI2014  | CSI<br>TC<br>BC<br>WB<br>Matrix-SH   | 0.78<br>0.95<br>0.97  | DEFL<br>Vert(LL)<br>Vert(CT)<br>Horz(CT)  | in<br>-0.36<br>-0.70<br>0.06              | (loc)<br>8-10<br>8-10<br>7 | l/defl<br>>955<br>>492<br>n/a | L/d<br>240<br>180<br>n/a | PLATES<br>MT20<br>Weight: 168 lb | <b>GRIP</b><br>185/148<br>FT = 10% | _ |
| LUMBER<br>TOP CHORE<br>30T CHORE<br>WEBS<br>DTHERS<br>BRACING<br>TOP CHORE<br>30T CHORE<br>WEBS<br>REACTIONS                          | <ul> <li>2x6 DF No.2</li> <li>2x6 DF No.2</li> <li>2x4 HF No.2</li> <li>2x4 HF No.2</li> <li>2x4 HF No.2</li> <li>Structural wood she</li> <li>2-10-9 oc purlins, e</li> <li>Rigid ceiling directly bracing.</li> <li>1 Row at midpt</li> <li>(size) 7=0-5-8, 1</li> <li>Max Horiz 12=60 (LC Max Uplift 7=-518 (L Max Grav 7=1599 (L</li> </ul> | athing directly applie<br>xcept end verticals.<br>applied or 5-4-5 oc<br>1-11, 6-8, 3-8<br>12=0-4-0<br>C 9)<br>C 12), 12=-253 (LC 8<br>-C 2), 12=1480 (LC 1                                     | 4)<br>5)<br>d or 6)<br>7)<br>8)<br>1)  | * This truss h<br>on the bottor<br>3-06-00 tall h<br>chord and ar<br>All bearings i<br>capacity of 4<br>Provide mec<br>bearing plate<br>joint 12 and 4<br>This truss is<br>International<br>referenced s<br>Hanger(s) or<br>provided suff<br>lb down and<br>301 lb up at | has been designed<br>n chord in all area<br>by 2-00-00 wide wi<br>by other members.<br>are assumed to be<br>05 psi.<br>hanical connection<br>capable of withst<br>518 lb uplift at join<br>designed in accor<br>Building Code sec<br>tandard ANSI/TPI<br>other connection<br>ficient to support c<br>301 lb up at 21-0<br>21-0-0 on bottom | d for a liv<br>is where<br>ill fit betw<br>e HF No.<br>and (by oth<br>canding 2<br>t 7.<br>dance w<br>ction 230<br>1.<br>device(s<br>concentra<br>-0, and 3<br>chord. | e load of 20.<br>a rectangle<br>veen the both<br>2 crushing<br>ers) of truss<br>53 lb uplift a<br>ith the 2018<br>6.1 and<br>) shall be<br>ted load(s) 3<br>00 lb down a<br>The design/ | Opsf<br>tom<br>to<br>t<br>t<br>300<br>and |                            |                               |                          |                                  |                                    |   |
| F <b>ORCES</b>  | (lb) - Maximum Com<br>Tension<br>0 1-12=-1378/455, 1-2<br>2-35278/2038 3-5  | pression/Maximum<br>2=-4092/1309,<br>54535/2205   | 9)                                     | selection of s<br>responsibility<br>In the LOAD  | such connection de<br>of others.<br>CASE(S) section,   | evice(s)<br>, loads aj  | is the oplied to the  | face                                      |                            |                               |                          |                                  |                                    |   |
| BOT CHORE<br>WEBS   | 2-3=-3276/2038, 3-3<br>5-6=-4536/2211, 6-7<br>0 11-12=-134/185, 10-<br>8-10=-2081/5271, 7-<br>1-11=-1306/4045, 2-<br>3-10=-220/262, 5-8=<br>6-8=-2247/4593, 3-8   | 435/2203,<br>   | LC<br>1)                               | DAD CASE(S)<br>Dead + Rod<br>Plate Increa<br>Uniform Los<br>Vert: 1-6  | Standard<br>Standard<br>of Live (balanced):<br>ase=1.15<br>ads (lb/ft)<br>=-80, 7-12=-20<br>ad Loads (lb)  | (F) or ba   | ск (в).<br>Increase=1.  | .15,                                      |                            |                               |                          | omino                            | 1 21                               |   |
| NOTES<br>1) Wind: AS<br>Vasd=87<br>II; Exp B<br>and C-C<br>exposed<br>member:<br>Lumber 1<br>Lumber 1<br>2) Provide a<br>3) This trus | 2-10=-762/1403<br>SCE 7-16; Vult=110mph<br>mph; TCDL=4.2psf; BC<br>; Enclosed; MWFRS (er<br>Corner (3) zone; cantile<br>; end vertical left and rig<br>and forces & MWFRS<br>DOL=1.60 plate grip DO<br>adequate drainage to pr<br>bas been designed for   | (3-second gust)<br>DL=6.0psf; h=25ft; C<br>ivelope) exterior zon-<br>wer left and right<br>ght exposed;C-C for<br>for reactions shown;<br>JL=1.60<br>event water ponding<br>r a 10.0 psf bottom | Cat.<br>e                              | Vert: 8=-  | ed Loads (ib)<br>123 (F=-61, B=-61   | 1)  |   |   |                            |                               |                          | HORESSE                          | A DO TOT                           |   |
| chord liv   | e load nonconcurrent wi   | th any other live load  | ls.                                    |  |  |   |   |   |                            |                               |                          | NA                               | LET                                |   |

chord live load nonconcurrent with any other live loads.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



| Job     | Truss | Truss Type       | Qty | Ply | MKM LEGACY EAST TOWN CROSSING BLD G   |
|---------|-------|------------------|-----|-----|---------------------------------------|
| 3907862 | N15   | Monopitch Girder | 2   | 1   | R81482240<br>Job Reference (optional) |

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 25 09:36:51 ID:Nnu1m7sE1ORWqwq6ijd?KSzZ?gF-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f







#### Scale = 1:62.6

| Plate Offsets (  | X, Y): [2:0-2-4,0-2-0],   | [8:0-3-7,0-2-8], [9:E  | dge,0-3-8],                                   | [13:0-2-4,0-2-   | -0], [15:0-3-8,0-2-0  | )]  |  |   |                              |                               |                          |  |   |   |
|--|---|--|---|--|---|---|--|---|------------------------------|-------------------------------|--------------------------|--|---|---|
| Loading<br>TCLL (roof)<br>TCDL<br>BCLL<br>BCDL   | (psf)<br>25.0<br>15.0<br>0.0*<br>10.0   | Spacing<br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code   | 2-0-0<br>1.15<br>1.15<br>NO<br>IBC2018        | 8/TPI2014  | CSI<br>TC<br>BC<br>WB<br>Matrix-SH  | 0.92<br>0.57<br>0.76  | DEFL<br>Vert(LL)<br>Vert(CT)<br>Horz(CT)   | in<br>-0.63<br>-1.26<br>0.11                                    | (loc)<br>12-13<br>12-13<br>9 | l/defl<br>>681<br>>340<br>n/a | L/d<br>240<br>180<br>n/a | PLATES<br>MT20<br>M18AHS<br>Weight: 209 lb | <b>GRIP</b><br>185/148<br>169/162<br>FT = 10% |   |
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>OTHERS<br>BRACING<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>REACTIONS | 2x6 DF No.2<br>2x6 DF 2400F 2.0E<br>2x4 HF No.2 *Excep<br>1800F 1.6E<br>2x4 HF No.2<br>Structural wood shea<br>2-0-9 oc purlins, exc<br>Rigid ceiling directly<br>bracing.<br>1 Row at midpt<br>(size) 9=0-5-8, 1<br>Max Horiz 16=60 (LC<br>Max Uplift 9=-337 (LI<br>Max Grav 9=1830 (L | t* 15-1,10-8:2x4 DF<br>athing directly applie<br>cept end verticals.<br>applied or 7-10-4 oc<br>8-10, 5-10<br>(6=0-5-8<br>2 9)<br>C 12), 16=-173 (LC 1<br>.C 1), 16=1796 (LC 1 | 1)<br>d or<br>2)<br>3)<br>4)<br>5)<br>3)<br>) | Wind: ASCE<br>Vasd=87mph<br>II; Exp B; End<br>and C-C Cor<br>15-1-12 to 20<br>cantilever lef<br>right exposed<br>for reactions<br>DOL=1.60<br>Provide adec<br>All plates are<br>This truss ha<br>chord live loa<br>* This truss tha<br>on the bottom<br>3-06-00 tall b<br>chord and an | 7-16; Vult=110mp<br>; TCDL=4.2psf; B<br>closed; MWFRS (<br>ner (3) 0-1-12 to 1<br>0-9-8, Corner (3) 2<br>t and right expose<br>; C-C for member:<br>shown; Lumber D<br>quate drainage to p<br>• MT20 plates unle<br>s been designed<br>fad nonconcurrent<br>vas been designed<br>n chord in all area<br>vy 2-00-00 wide wi<br>vy other members. | oh (3-sec<br>CDL=6.1<br>envelope<br>5-1-12,<br>20-9-8 to<br>d; end v<br>s and fou<br>(OL=1.60<br>prevent v<br>ess other<br>for a 10.1<br>with any<br>d for a liv<br>s where<br>ill fit betw | ond gust)<br>psf; h=25ft;<br>exterior zon<br>Exterior (2)<br>35-9-8 zone;<br>ertical left ar<br>ces & MWFF<br>plate grip<br>water pondin;<br>wise indicate<br>psf bottom<br>other live loa<br>e load of 20.0<br>a rectangle<br>yeen the bottom | Cat.<br>ne<br>;<br>nd<br>RS<br>g.<br>ed.<br>ed.<br>uds.<br>0psf |                              |                               |                          |  |   |   |
| FORCES   | (lb) - Maximum Com<br>Tension<br>1-16=-1687/345, 1-2<br>2-4=-7798/1552, 4-5<br>5-7=-5234/1531, 7-8  | pression/Maximum<br>=-5456/1017,<br>=-7561/1722,<br>=-5236/1536,   | 6)<br>7)                                      | All bearings a<br>capacity of 4<br>Provide mech<br>bearing plate<br>joint 16 and 3   | are assumed to be<br>05 psi.<br>hanical connectior<br>capable of withst<br>337 lb uplift at join  | e HF No.<br>n (by oth<br>anding 1<br>t 9.   | 2 crushing<br>ers) of truss t<br>73 lb uplift at   | to<br>t   |                              |                               |                          |  |   |   |
| BOT CHORD  | 8-9=-1721/514<br>15-16=-125/207, 13-<br>12-13=-1605/7790, 1<br>9-10=-53/131<br>1-15=-1008/5401, 2-  | .15=-1081/5449,<br>10-12=-1752/7553,<br>.15=-1208/342.   | 8)<br>9)                                      | This truss is<br>International<br>referenced st<br>Hanger(s) or  | designed in accord<br>Building Code sec<br>tandard ANSI/TPI<br>other connection   | dance w<br>ction 230<br>1.<br>device(s  | ith the 2018<br>6.1 and<br>) shall be  | 800   |                              |                               |                          | AOMIN                                      | ZHA   |   |
| NOTES  | 4-13=-477/227, 5-12<br>8-10=-1554/5319, 5-<br>4-12=-362/262, 2-13   | 2=0/321, 7-10=-640/2<br>10=-2446/490,<br>5=-561/2419   | 31,<br>10                                     | Ib down and<br>design/select<br>responsibility<br>In the LOAD  | 301 lb up at 27-8<br>tion of such conne<br>of others.<br>CASE(S) section,   | -12 on b<br>ection de   | ottom chord.<br>vice(s) is the   | The   |                              |                               | 7                        | TT OF WA                                   | SHINGTON                                      |   |
|  |   |  | LC<br>1)                                      | of the truss a<br>DAD CASE(S)<br>Dead + Roc<br>Plate Increa<br>Uniform Loa<br>Vert: 1-8:<br>Concentrate<br>Vert: 10=   | rre noted as front (<br>Standard<br>of Live (balanced):<br>ase=1.15<br>ads (lb/ft)<br>=-80, 9-16=-20<br>ed Loads (lb)<br>61 (B)   | (F) or ba   | ck (B).<br>Increase=1.   | 15,   |                              |                               |                          | PROFESSIONA                                | ERED LENGTHER                                 | Ā |

March 26,2024



| Job     | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING BLD G   |
|---------|-------|------------|-----|-----|---------------------------------------|
| 3907862 | N16   | Monopitch  | 2   | 1   | R81482241<br>Job Reference (optional) |

Run: 8,63 S Nov 1 2023 Print: 8,630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 25 09:36:51 ID:i6cMUSCwL?t\_5kfO3T5UBMzZ?dD-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



#### Scale = 1:65.2

| Plate Offsets (  | (X, Y): [1:0-   | ·2-4,0-2-0],  | [5:0-3-8,0-2-4], [8:0-  | -1-12,0-2-8  | 8], [9:0-7-8,0-1  | -12], [13:0-2-12,0-   | 2-0], [18                              | :0-2-4,0-2-8],                                   | [21:0-1-                     | 12,0-1-0                      | )]                            |                          |                                  |                                    |
|--|---|---|---|--|---|---|--|--|------------------------------|-------------------------------|-------------------------------|--------------------------|----------------------------------|------------------------------------|
| Loading<br>TCLL (roof)<br>TCDL<br>BCLL<br>BCDL   |   | (psf)<br>25.0<br>15.0<br>0.0*<br>10.0   | Spacing<br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code  | 2-0-0<br>1.15<br>1.15<br>NO<br>IBC201                      | 8/TPI2014   | CSI<br>TC<br>BC<br>WB<br>Matrix-SH  | 0.99<br>0.60<br>0.71                   | DEFL<br>Vert(LL)<br>Vert(CT)<br>Horz(CT)         | in<br>-0.22<br>-0.44<br>0.05 | (loc)<br>16-18<br>16-18<br>13 | l/defl<br>>999<br>>748<br>n/a | L/d<br>240<br>180<br>n/a | PLATES<br>MT20<br>Weight: 218 lb | <b>GRIP</b><br>185/148<br>FT = 10% |
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>OTHERS<br>BRACING<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>REACTIONS | 2x6 DF N<br>2x6 DF N<br>2x4 HF N<br>1.6E<br>2x4 HF N<br>Structural<br>3-11-7 oc<br>Rigid ceili<br>bracing.<br>1 Row at<br>(size)<br>Max Horiz<br>Max Uplift | 0.2<br>0.2 *Excep<br>0.2 *Excep<br>0.2<br>I wood shea<br>purlins, ea<br>ing directly<br>midpt<br>10=8-3-4,<br>13=8-3-4,<br>19=73 (LC<br>10=-378 (<br>13=-390 (<br>13=-390 ( | t* 5-13:2x4 DF 1800<br>athing directly applie<br>xcept end verticals.<br>applied or 5-5-15 oc<br>5-13, 4-15<br>11=8-3-4, 12=8-3-4<br>19=0-4-0<br>C 36)<br>LC 38), 12=-209 (LC<br>C 32), 19=-147 (LC<br>C 32), 19=-1478 (LC<br>C 32), 11=-1428 (LC | 1)<br>F<br>d or<br>2)<br>, 3)<br>4)<br>( 37), 5)<br>29) 6) | Wind: ASCE<br>Vasd=87mpl<br>II; Exp B; En<br>and C-C Cor<br>15-1-12 to 2'<br>cantilever lef<br>right expose<br>for reactions<br>DOL=1.60<br>Truss desig<br>only. For stu<br>see Standar<br>or consult qu<br>Provide aded<br>Truss to be f<br>braced agair<br>Gable studs<br>This truss ha | Wind: ASCE 7-16; Vult=110mph (3-second gust)<br>Vsad=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat.<br>II; Exp B; Enclosed; MWFRS (envelope) exterior zone<br>and C-C Corner (3) 0-1-12 to 15-1-12, Exterior (2)<br>15-1-12 to 20-8-0, Corner (3) 20-8-0 to 35-8-0 zone;<br>cantilever left and right exposed ; end vertical left and<br>right exposed; C-C for members and forces & MWFRS<br>for reactions shown; Lumber DOL=1.60 plate grip<br>DOL=1.60<br>Truss designed for wind loads in the plane of the truss<br>only. For studs exposed to wind (normal to the face),<br>see Standard Industry Gable End Details as applicable,<br>or consult qualified building designer as per ANSI/TPI 1.<br>Provide adequate drainage to prevent water ponding.<br>Truss to be fully sheathed from one face or securely<br>braced against lateral movement (i.e. diagonal web).<br>Gable studs spaced at 2-0-0 oc.<br>This truss has been designed for a 10.0 psf bottom |  |  |                              |                               |                               |                          |                                  | -20                                |
| FORCES   | (lb) - Max  | 12=1738 (<br>19=1124 (<br>imum Com  | (LC 19), 13=3633 (L<br>(LC 1)<br>pression/Maximum   | Ċ 1), 7)   | * This truss h<br>on the bottor<br>3-06-00 tall h   | nas been designed<br>m chord in all area  | d for a liv<br>s where<br>ill fit bety | e load of 20.0<br>a rectangle                    | Opsf<br>om                   |                               |                               |                          |                                  |                                    |
| TOP CHORD  | Tension<br>1-19=-103<br>2-4=-3218<br>5-7=-919/<br>8-9=-727/   | 31/261, 1-2<br>3/645, 4-5=<br>/2631, 7-8=<br>/1096, 9-10  | 2=-2973/714,<br>1082/499,<br>1138/2644,<br>0=-666/403   | 8)<br>9)   | chord and ar<br>All bearings<br>capacity of 4<br>Provide mec<br>bearing plate   | ny other members.<br>are assumed to be<br>05 psi.<br>chanical connection<br>capable of withst   | e HF No.<br>n (by oth                  | 2 crushing<br>ers) of truss t<br>47 lb uplift at | to                           |                               |                               |                          | I AOMING                         | 3 ZHA                              |
| BOT CHORD  | 18-19=-11<br>15-16=-10<br>12-13=-19<br>10-11=-42  | 10/156, 16-<br>032/3212, 1<br>952/1483, 1<br>27/417   | -18=-748/2967,<br>13-15=-936/1350,<br>11-12=-1009/1003,   | 10   | joint 19, 378<br>and 209 lb u<br>) This truss is  | Ib uplift at joint 10<br>plift at joint 12.<br>designed in accor  | dance w                                | ith the 2018                                     | 13                           |                               |                               | ľ                        | THE WA                           |                                    |
| WEBS   | 2-18=-614<br>7-13=-129<br>4-15=-22<br>1-18=-68<br>8-13=-192   | 4/266, 4-16<br>96/284, 5-1<br>18/561, 2-1<br>1/2901, 8-1<br>24/714, 9-1   | 5=-3/233, 5-15=-64/6<br>3=-3863/795,<br>6=-295/436,<br>2=-1414/430,<br>2=-1298/817  | 95,<br>11  | referenced standard ANSI/TPI 1.<br>11) This truss has been designed for a total drag load of<br>2000 lb. Lumber DOL=(1.33) Plate grip DOL=(1.33)<br>Connect truss to resist drag loads along bottom chord<br>from 27-7-4 to 35-9-12 for 243.7 plf.  |   |  |  |                              |                               | HA BER AND                    |                          |                                  |                                    |
| NOTES  |   |   |   | L(<br>1)   | DAD CASE(S)<br>Dead + Roo<br>Plate Increa   | Standard<br>of Live (balanced):<br>ase=1.15   | Lumber                                 | Increase=1.                                      | 15,                          |                               |                               |                          | <sup>ESSIONA</sup>               | LENGL                              |



March 26,2024

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| Job     | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING BLD G   |
|---------|-------|------------|-----|-----|---------------------------------------|
| 3907862 | N17   | Monopitch  | 12  | 1   | R81482242<br>Job Reference (optional) |

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March 26,2024

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Scale = 1:61.1

| Plate Offsets   | (X, Y): [5:0-2-12,0-1-8   | 3], [10:0-4-0,0-1-0], [1   | 11:0-2-8,0-   | 1-12], [13:0-1-  | 12,0-1-8], [14:0-  | 1-12,0-1-8   | , [16:0-2-0,0·  | -2-8], [17   | 7:0-1-12,                                 | 0-1-0]                                   |                   |                                  |                             |  |
|---|---|--|---|--|--|--|---|--|---|--|-------------------|----------------------------------|-----------------------------|--|
| Plate Offsets (<br>Loading<br>TCLL (roof)<br>TCDL<br>BCLL<br>BCDL<br>LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>REACING<br>TOP CHORD<br>WEBS<br>REACTIONS<br>FORCES<br>TOP CHORD | (X, Y): [5:0-2-12,0-1-8<br>(psf)<br>25:0<br>15:0<br>0.0*<br>10:0<br>2x6 DF No.2<br>2x6 DF No.2<br>2x6 DF No.2<br>2x4 HF No.2 *Excep<br>1.6E<br>Structural wood she<br>3-8-9 oc purlins, ex<br>Rigid ceiling directly<br>bracing, Except:<br>6-0-0 oc bracing: 10<br>1 Row at midpt<br>(size) 10=0-3-8<br>MiTek), (f<br>Max Horiz 17=59 (Lf<br>Max Uplift 10=-503 (Lf<br>Max Uplift 10=-503 (Lf<br>Max Grav 10=19 (Lf<br>17=-69 (Lf<br>Max Grav 10=19 (Lf<br>17=-1180)<br>(lb) - Maximum Con<br>Tension<br>1-17=-1084/207, 1-2<br>2-4=-3586/542, 4-5=<br>5-7=-340/2081, 7-8=<br>8-10=-33/506 | B)         [10:0-4-0,0-1-0], [1]           Spacing         Plate Grip DOL           Lumber DOL         Rep Stress Incr           Code         Other Stress Incr           other Stress Incr         Code           code         Code           code         Code           code         Code           code | 2-0-0<br>1.15<br>1.15<br>YES<br>IBC2018<br>1)<br>0F<br>ed or<br>2 2)<br>3)<br>0F<br>12), 5)<br>0, 6)<br>7)<br>0, LC | 3/TPI2014<br>Wind: ASCE<br>Vasd=87mp<br>II; Exp B; Er<br>and C-C Coi<br>15-1-12 to 1<br>cantilever le<br>right expose<br>for reactions<br>DOL=1.60<br>Provide ade<br>This truss h<br>chord live lo<br>* This truss h<br>chord live lo<br>* This truss a<br>capacity of 4<br>Provide med<br>bearing plat<br>17, 503 lb up<br>This truss is<br>International<br>referenced s | 12,0-1-8], [14:0-<br>TC<br>BC<br>WB<br>Matrix-SH<br>7-16; Vult=110<br>h; TCDL=4.2psf<br>iclosed; MWFRS<br>mer (3) 0-1-12 ti<br>9-11-4, Corner<br>(3) 0-1-12 ti<br>9-11-4, Corner<br>(4) 0-1-12 ti<br>9-11-4, Corner<br>(5) 0-1-12 ti<br>9-11-4, Corner<br>ti and right expo<br>d; C-C for member<br>as been designed<br>ad nonconcurren<br>has been de | 1-12,0-1-8<br>0.69<br>0.60<br>0.66<br>mph (3-sec<br>; BCDL=6.0<br>S (envelope<br>o 15-1-12,<br>(3) 19-11-4<br>yeers and for<br>r DOL=1.60<br>to prevent to<br>do for a 10.0<br>nt with any<br>need for a 10.0<br>nt with any<br>need for a live<br>eas where<br>eas where<br>be HF No.<br>be HF No.<br>tion (by oth<br>histanding 6<br>nd 163 lb u<br>cordance w<br>section 230<br>PI 1. | I, [16:0-2-0,0<br>DEFL<br>Vert(LL)<br>Vert(CT)<br>Horz(CT)<br>Horz(CT)<br>bond gust)<br>opsf; h=25ft;<br>b) exterior zor<br>Exterior (2)<br>to 34-11-4 zc<br>rerical left an<br>ces & MWFF<br>b) plate grip<br>water ponding<br>b) psf bottom<br>other live loa<br>e load of 20.0<br>a rectangle<br>veen the bottom<br>2 crushing<br>ers) of truss t<br>9 lb uplift at j<br>oplift at joint 1<br>th the 2018<br>6.1 and | -2-8], [17<br>in<br>-0.24<br>-0.48<br>0.05<br>Cat.<br>ne<br>Cat.<br>ne<br>cone;<br>ads.<br>0psf<br>om<br>to<br>joint<br>1. | 7:0-1-12<br>(loc)<br>14-16<br>14-16<br>11 | 0-1-0]<br> /defi <br>>999<br>>688<br>n/a | L/d<br>240<br>n/a | PLATES<br>MT20<br>Weight: 198 lb | GRIP<br>185/148<br>FT = 10% |  |
| BOT CHORD   | 16-17=-113/168, 14<br>13-14=-587/3579, 1<br>10-11=-43/35<br>7-11=-650/208, 5-13<br>2-16=-657/215, 1-16  | -16=-554/3200,<br>1-13=-268/1570,<br>3=0/655, 4-14=0/212<br>5=-480/3126,   | ,   |  |  |  |   |  |   |  | ž                 | TLAOMIN<br>Strong WA             | SHINGTON                    |  |
| NOTES   | 2-14=-58/392, 4-13=<br>5-11=-3805/584, 8-1  | 2086/332,<br>11=-2198/337  |   |  |  |  |   |  |   |  |                   | PROFESSIONA                      | 14<br>ERED<br>LENGING       |  |

| Job     | Truss | Truss Type                | Qty | Ply | MKM LEGACY EAST TOWN CROSSING BLD G |
|---------|-------|---------------------------|-----|-----|-------------------------------------|
| 3907862 | N18   | Monopitch Supported Gable | 2   | 1   | R81482243 Job Reference (optional)  |

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 25 09:36:51 ID:CcZhmSQ0Nvygcn2b5zbtYEzZ?EP-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





Scale = 1:62.3

| Plate Offsets  | (X, Y): [1:0-3-0,0-2-12  | 2], [2:0-4-8,0-1-0], [7  | :0-4-0,0-4-8  | 8], [13:0-2-5,0   | -2-0], [18:0-2-4,0  | 0-2-8], [21:0  | -3-0,0-4-4], [3   | 32:0-4-0                                      | ,0-4-8],                      | [37:0-4-0                     | ),0-1-0   | ]   |  |  |
|--|--|--|---|---|---|--|---|---|-------------------------------|-------------------------------|---|---|--|--|
| Loading<br>TCLL (roof)<br>TCDL<br>BCLL<br>BCDL   | (psf)<br>25.0<br>15.0<br>0.0*<br>10.0  | <b>Spacing</b><br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code  | 2-0-0<br>1.15<br>1.15<br>NO<br>IBC201   | 8/TPI2014   | CSI<br>TC<br>BC<br>WB<br>Matrix-SH  | 0.76<br>0.83<br>0.74   | DEFL<br>Vert(LL)<br>Vert(CT)<br>Horz(CT)  | in<br>0.01<br>-0.01<br>-0.03                  | (loc)<br>35-36<br>20-21<br>20 | l/defl<br>>999<br>>999<br>n/a | L/d<br>240<br>180<br>n/a  | PLATES<br>MT20<br>Weight: 194 lb  | <b>GRIP</b><br>185/148<br>FT = 10%   |  |
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>BRACING<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>REACTIONS | JMBER           DP CHORD         2x6 DF No.2           DT CHORD         2x6 DF No.2           EBS         2x4 HF No.2           THERS         2x4 HF No.2           RACING         DP CHORD           DP CHORD         Structural wood sheathing directly applied or<br>4-5-4 oc purlins, except end verticals.           DT CHORD         Rigid ceiling directly applied or 4-4-3 oc<br>bracing.           EBS         1 Row at midpt         18-21           EACTIONS         (size)         20=0-3-8, 21=27-11-8, 22=27-11-8,<br>26=27-11-8, 24=27-11-8,<br>28=27-11-8, 21=27-11-8,<br>30=27-11-8, 31=27-11-8,<br>30=27-11-8, 31=27-11-8,<br>36=27-11-8, 33=27-11-8,<br>36=27-11-8,<br>36=27-11-8           Max Horiz         36=27-11-8,<br>36=27-11-8,<br>36=27-11-8           Max Horiz         36=95 (LC 31)<br>Max Uplift           Max Uplift         20=-1198 (LC 38), 21=-1267 (LC<br>29), 22=-323 (LC 3), 24=-18 (LC |  |   | DP CHORD  | <ul> <li>1.37=-507/515, 1-2=-1002/1023,<br/>2-3=-819/840, 3-4=-564/585, 4-5=-317/323,<br/>5-6=-170/194, 6-8=-652/678, 8-9=-893/920,<br/>9-10=-1134/1162, 10-11=-1375/1403,<br/>11-12=-1616/1645, 12-14=-1857/1887,<br/>14-15=-2090/2112, 15-16=-2339/2371,<br/>16-17=-2400/2433, 17-18=-3127/3155,<br/>36-37=-242/253, 35-36=-957/897,<br/>31-33=-721/661, 30-31=-1024/964,<br/>29-30=-1327/1267, 28-29=-1630/1570,<br/>27-28=-1933/1873, 26-27=-2236/2176,<br/>24-26=-2539/2479, 23-24=-2842/2782,<br/>22-23=-3115/3055, 21-22=-3221/3161,<br/>20-21=-66/57</li> <li>17-21=-526/207, 18-21=-3401/3335,<br/>2-36=-1082/1008, 3-35=-646/660,<br/>4-34=-188/160, 5-33=-160/74, 6-32=-160/57,<br/>10-28=-160/52, 11-27=-160/52,<br/>12-26=-158/53, 14-24=-178/61.</li> <li>All plates are 2x4 MT20 unless<br/>Truss to be fully sheathed from<br/>braced against lateral moveme<br/>of the bottom chord in all areas<br/>3-06-00 tall by 2-00-00 wide with<br/>chord and any other members.</li> <li>All plates are 2x4 MT20 unless<br/>Truss to be fully sheathed from<br/>braced against lateral<br/>on the bottom chord in all areas<br/>3-06-00 tall by 2-00-00 wide with<br/>chord and any other members.</li> <li>All bearings are assumed to be<br/>capacity of 405 psi.</li> <li>Provide mechanical connection<br/>bearing plate capable of withstat<br/>joint 20, 1267 lb uplift at joint 33, 40 lb uplift at joint 24 and 33</li> <li>This truss is deseigned in accord<br/>international Building Code sec</li> </ul> |  |   |   |                               |                               | MT20 unless oth<br>neathed from on-<br>eral movement (<br>ed at 2-0-0 oc.<br>n designed for a<br>concurrent with<br>een designed for<br>rd in all areas wi<br>0-00 wide will fit<br>er members.<br>ssumed to be HF<br>i.<br>al connection (by<br>ble of withstand<br>ble of w | erwise indicated.<br>a face or securely<br>.e. diagonal web<br>10.0 psf bottom<br>any other live loa<br>a live load of 20.<br>there a rectangle<br>between the bott<br>No.2 crushing<br>( others) of truss<br>ing 1198 lb uplift<br>112 lb uplift at joint<br>29, 131 lb uplift at<br>ift at joint 29, 131<br>27, 11 lb uplift at<br>b uplift at joint 22<br>ce with the 2018<br>a 2306.1 and | y<br>).<br>.0psf<br>tom<br>to<br>at<br>int 36,<br>lb<br>t joint<br>lb<br>t joint<br>2. |  |
| FORCES   | 38), 28=-<br>38), 30=-<br>38), 32=-<br>38), 34=-<br>(LC 32), 1<br>Max Grav 20=1318<br>50), 22=-<br>1), 24=21<br>27=200 (<br>31=199 (<br>33=198 (<br>35=1391<br>(lb) - Maximum Con<br>Tension   | 13 (LC 29), 29=-16 (<br>25 (LC 29), 31=-33 (<br>40 (LC 29), 33=-83 (<br>315 (LC 29), 35=-13<br>36=-1112 (LC 29)<br>(LC 49), 21=1743 (L<br>12 (LC 29), 23=129<br>5 (LC 1), 26=198 (L<br>LC 1), 28=200 (LC 1<br>LC 1), 30=201 (LC 1<br>LC 1), 32=200 (LC 1<br>LC 1), 32=200 (LC 1<br>LC 1), 34=408 (LC 5<br>(LC 49), 36=1253 (L<br>npression/Maximum | LC Ni<br>LC 1)<br>LC 1)<br>225<br>-C (LC C 1),<br>),<br>),<br>),<br>),<br>),<br>),<br>2,<br>C 50)<br>-2 50) | Vind: ASCE<br>Vasd=87mp<br>II; Exp 8; Er<br>and C-C Co<br>15-1-12 to 2<br>cantilever le<br>right expose<br>for reactions<br>DOL=1.60<br>Truss desig<br>only. For st<br>see Standai<br>or consult q<br>Provide ade | E 7-16; Vult=110<br>h; TCDL=4.2psi<br>rner (3) 0-1-12 t<br>0-8-8, Corner (3<br>hft and right expo<br>ad;C-C for memb<br>s shown; Lumbe<br>gned for wind loa<br>uds exposed to<br>rd Industry Gabl<br>ualified building<br>pruate drainage   | Omph (3-sec<br>f; BCDL=6.0<br>S (envelope<br>to 15-1-12, E<br>3) 20-8-8 to<br>3) 20-8-8 to<br>bers and for<br>r DOL=1.60<br>ads in the pl<br>wind (normation<br>e End Detai<br>designer as<br>to prevent w | ond gust)<br>ipsf; h=25ft; (<br>) exterior zor<br>Exterior (2)<br>35-8-8 zone;<br>ertical left an<br>ces & MWFR<br>plate grip<br>ane of the tru,<br>al to the face<br>Is as applical<br>per ANSI/TF | Cat.<br>he<br>d<br>SS<br>Jss<br>ble,<br>PI 1. |                               |                               |   | HOMEN<br>BROMESSION   | G ZHAO<br>SHINGTON<br>THE ENGING   |  |

March 26,2024

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| Job                                | Truss                       | Truss Type                | Qty            | Ply        | MKM LEGACY EAST TOWN CROSSING B                 | LD G      |
|------------------------------------|-----------------------------|---------------------------|----------------|------------|---|-----------|
| 3907862                            | N18                         | Monopitch Supported Gable | 2              | 1          | Job Reference (optional)                        | R81482243 |
| Builders FirstSource (Arlington, V | VA), Arlington, WA - 98223, | Run: 8.63 S Nov 1 2       | 023 Print: 8.6 | 30 S Nov 1 | 2023 MiTek Industries, Inc. Mon Mar 25 09:36:51 | Page: 2   |

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12) This truss has been designed for a total drag load of 4200 lb. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-9-4 to 28-6-0 for 151.5 plf.

LOAD CASE(S) Standard

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



PRMU20240404

| Job     | Truss | Truss Type       | Qty | Ply | MKM LEGACY EAST TOWN CROSSING BLD G   |
|---------|-------|------------------|-----|-----|---------------------------------------|
| 3907862 | N19   | Monopitch Girder | 1   | 1   | R81482244<br>Job Reference (optional) |

 Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 25 09:36:52
 Page: 1

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 PRMU202240404







Scale = 1:29.8

| Loading<br>TCLL (roof)         (psf)         Spacing<br>Plate Grip DOL<br>1.15         2-0-0         CSI<br>TC         DEFL<br>Vert(LL)         in         (loc)         I/defl<br>Vert         Lub<br>MT20         185/148           CDL         15.0         Lumber DOL<br>0.0°         1.15         BC         0.18         Vert(LL)         -0.01         5-6         >999         240         MT20         185/148           3CLL         0.0°         Rep Stress Incr         NO         WB         0.28         Horz(CT)         0.00         4         n/a         n/a           3GDL         10.0         Code         IBC2018/TPI2014         WB         0.28         Horz(CT)         0.00         4         n/a         n/a           VEES         2x4 HF No.2         This truss is designed in accordance with the 2018<br>International Building Code section 2306.1 and<br>referenced standard ANSI/TPI 1.         Hange(s) or other connection device(s) shall be<br>provided sufficient to support concentrated load(s) 140<br>Ib down and 35 lb up at 2-112, and 140 lb down and 35<br>lb up at 4-1-12 on bottom chord. The design/selection<br>of such connection device(s) is the responsibility of<br>others.         Sector         Sector         Sector         Sector           STOC CHORD         4-0-58, 6-0-4-0<br>Max Horiz         64-07 (LC 9)<br>Max Uplit         4-0-58, 6-0-4-0<br>Max Horiz         1         Dead + Roof Live (balanced): Lumber Increase=1.15.<br>Plate Increase= |  |  |  |   |  |  |   |   |                                      |                          |                               |                          |                                 |                                    |  |
|--|--|--|--|---|--|--|---|---|--------------------------------------|--------------------------|-------------------------------|--------------------------|---------------------------------|------------------------------------|--|
| LUMBER       7) This truss is designed in accordance with the 2018         TOP CHORD       2x4 HF No.2         3OT CHORD       2x6 DF No.2         3OT CHORD       2x4 HF No.2         BRACING       1         GOP CHORD       Structural wood sheathing directly applied or 6-0-0 cc purlins, except end verticals.         SOT CHORD       Structural wood sheathing directly applied or 6-0-0 cc purlins, except end verticals.         SOT CHORD       Rigid ceiling directly applied or 10-0-0 cc braring.         REACTIONS       (size)       4=05-8, 6=0-4-0<br>Max Horiz         Max Grav       4=500 (LC 1), 6=-569 (LC 1)         FORCES       (b) - Maximum Compression/Maximum<br>Tension       10         TOP CHORD       1-6=-461/215, 1-2=-739/277, 2-3=-25/24, 3-4=-123/83       5         OTO P CHORD       1-6=-461/215, 1-2=-739/277, 2-3=-25/24, 3-4=-123/83       7)   | L <b>oading</b><br>TCLL (roof)<br>TCDL<br>3CLL<br>3CDL   | (psf)<br>25.0<br>15.0<br>0.0*<br>10.0  | <b>Spacing</b><br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code  | 2-0-0<br>1.15<br>1.15<br>NO<br>IBC2018  | 3/TPI2014  | <b>CSI</b><br>TC<br>BC<br>WB<br>Matrix-P   | 0.29<br>0.18<br>0.28  | DEFL<br>Vert(LL)<br>Vert(CT)<br>Horz(CT)  | in<br>-0.01<br>-0.03<br>0.00         | (loc)<br>5-6<br>5-6<br>4 | l/defl<br>>999<br>>999<br>n/a | L/d<br>240<br>180<br>n/a | PLATES<br>MT20<br>Weight: 41 lb | <b>GRIP</b><br>185/148<br>FT = 10% |  |
| 30T CHORD 5-6=-66/59, 4-5=-313/737<br>NEBS 1-5=-315/804, 2-5=-49/222, 2-4=-811/326   | LUMBER<br>TOP CHORD<br>SOT CHORD<br>WEBS<br>BRACING<br>TOP CHORD<br>BOT CHORD<br>REACTIONS<br>FORCES<br>TOP CHORD<br>SOT CHORD<br>WEBS | 2x4 HF No.2<br>2x6 DF No.2<br>2x4 HF No.2<br>Structural wood she<br>6-0-0 oc purlins, ex<br>Rigid ceiling directly<br>bracing.<br>(size) 4=0-5-8, 6<br>Max Horiz 6=47 (LC<br>Max Grav 4=500 (LC<br>(lb) - Maximum Com<br>Tension<br>1-6=-461/215, 1-2=-<br>3-4=-123/83<br>5-6=-66/59, 4-5=-31<br>1-5=-315/804, 2-5=- | eathing directly applie<br>cept end verticals.<br>applied or 10-0-0 oc<br>6=0-4-0<br>9)<br>C 12), 6=-71 (LC 8)<br>C 1), 6=-569 (LC 1)<br>apression/Maximum<br>-739/277, 2-3=-25/24<br>3/737<br>49/222, 2-4=-811/32 | 7)<br>8)<br>d or<br>9)<br>LC<br>1)<br>, | This truss is<br>International<br>referenced s<br>Hanger(s) or<br>provided suff<br>Ib down and<br>Ib up at 4-1-<br>of such conno<br>others.<br>In the LOAD<br>of the truss a<br><b>DAD CASE(S)</b><br>Dead + Roo<br>Plate Increas<br>Uniform Lo:<br>Vert: 1-3<br>Concentrativ<br>Vert: 5=- | designed in acc<br>Building Code s<br>tandard ANSI/T<br>other connectic<br>ficient to suppor<br>35 lb up at 2-1-<br>12 on bottom ch<br>ection device(s)<br>CASE(S) sectio<br>tre noted as fror<br>Standard<br>of Live (balance<br>ase=1.15<br>ads (lb/tt)<br>=-80, 4-6=-20<br>ed Loads (lb)<br>140 (B), 7=-140 | ordance wi<br>section 230<br>PI 1.<br>on device(s,<br>t concentra<br>-12, and 14<br>hord. The c<br>) is the resp<br>on, loads ap<br>nt (F) or bac<br>d): Lumber | th the 2018<br>6.1 and<br>) shall be<br>ted load(s) 1<br>0 lb down an<br>design/select<br>consibility of<br>oplied to the<br>ck (B).<br>Increase=1. | 140<br>nd 35<br>tion<br>face<br>.15, |                          |                               |                          |                                 |                                    |  |

NOTES

- 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) Provide adequate drainage to prevent water ponding.3) This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads.
  \* 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.
- 5) All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 71 lb uplift at joint 6 and 46 lb uplift at joint 4.





| Job     | Truss | Truss Type           | Qty | Ply | MKM LEGACY EAST TOWN CROSSING BLD G   |
|---------|-------|----------------------|-----|-----|---------------------------------------|
| 3907862 | N20   | Flat Supported Gable | 1   | 1   | R81482245<br>Job Reference (optional) |

Run: 8.63 S. Nov. 1 2023 Print: 8.630 S.Nov. 1 2023 MiTek Industries. Inc. Mon. Mar. 25 09:36:52 ID:7vmI7QoWIIYECfsnWSlpQhzZ1es-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1 PRMU20240404



3-6-0

| Scale = | 1:23.1 |
|---------|--------|
|---------|--------|

| _oading  | (psf)  | Spacing                   | 2-0-0  | CSI   |  | DEFL  | in                 | (loc) | l/defl | L/d | PLATES        | GRIP     |
|--|--|---------------------------|--|---|--|---|--------------------|-------|--------|-----|---------------|----------|
| TCLL (roof)  | 25.0   | Plate Grip DOL            | 1.15   | тс  | 0.05   | Vert(LL)  | n/a                | -     | n/a    | 999 | MT20          | 185/148  |
| FCDL   | 15.0   | Lumber DOL                | 1.15   | BC  | 0.05   | Vert(TL)  | n/a                | -     | n/a    | 999 |               |          |
| BCLL   | 0.0*   | Rep Stress Incr           | YES  | WB  | 0.02   | Horiz(TL)   | 0.00               | 4     | n/a    | n/a |               |          |
| 3CDL   | 10.0   | Code                      | BC2018/TPI2014   | Matrix-R  |  |   |                    |       |        |     | Weight: 14 lb | FT = 10% |
| LUMBER<br>FOP CHORD<br>BOT CHORD<br>WEBS<br>DTHERS<br>BRACING<br>FOP CHORD | 2x4 HF No.2<br>2x4 HF No.2<br>2x4 HF No.2<br>2x4 HF No.2<br>Structural wood shea | athing directly applied d | <ol> <li>This truss ha<br/>chord live loa</li> <li>* This truss h<br/>on the bottor<br/>3-06-00 tall t<br/>chord and ar</li> <li>All bearings</li> </ol> | is been designe<br>ad nonconcurren<br>has been design<br>n chord in all ar<br>by 2-00-00 wide<br>hy other membe<br>are assumed to | ed for a 10.0<br>nt with any<br>ned for a liv<br>eas where<br>will fit betw<br>ers.<br>be HF No. | ) psf bottom<br>other live loa<br>e load of 20.0<br>a rectangle<br>veen the botto<br>2 crushing | ads.<br>Opsf<br>om |       |        |     |               |          |

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=48 (LC 9) Max Uplift 4=-21 (LC 9), 5=-16 (LC 8), 6=-18 (LC 8) 4=51 (LC 1), 5=190 (LC 1), 6=80 Max Grav (LC 1)
- FORCES (lb) - Maximum Compression/Maximum Tension TOP CHORD 1-6=-64/62, 1-2=-8/11, 2-3=-8/11, 3-4=-40/48 BOT CHORD 5-6=-49/57, 4-5=-49/57

2-5=-152/122

#### WEBS

#### NOTES

- Wind: ASCE 7-16; Vult=110mph (3-second gust) 1) 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.
- Provide adequate drainage to prevent water ponding. 3)
- Gable requires continuous bottom chord bearing. 4)
- 5) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 6) Gable studs spaced at 2-0-0 oc.

- capacity of 405 psi. 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 18 lb uplift at joint 6, 21 lb uplift at joint 4 and 16 lb uplift at joint 5.
- 11) 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

### LAOMING ZHAO ROADSIGISTERED ASSIONAL ENGINE ----March 26,2024

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 BLD G   |
|---------|-------|------------|-----|-----|---------------------------------------|
| 3907862 | N21   | Flat       | 1   | 1   | R81482246<br>Job Reference (optional) |

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 25 09:36:52 ID:uFzybS6CZFz9wMbJUHxWpCzZ1tx-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





3x4 =

3-6-0

Scale = 1:21.8

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| Loading   | (psf)  | Spacing  | 2-0-0            | CSI                | 0.24     | DEFL        | in    | (loc)      | l/defl | L/d        | PLATES        | GRIP     |
|---|--|--|------------------|--------------------|----------|-------------|-------|------------|--------|------------|---------------|----------|
|   | 25.0<br>15.0   | Plate Grip DOL   | 1.15             | BC                 | 0.21     | Vert(LL)    | -0.01 | 3-4<br>3-4 | >999   | 240<br>180 | MT20          | 185/148  |
| BCLL  | 0.0*   | Rep Stress Incr  | YES              | WB                 | 0.01     | Horz(CT)    | 0.00  | 3          | n/a    | n/a        |               |          |
| BCDL  | 10.0   | Code   | IBC2018/TPI2014  | Matrix-P           |          | - (- )      |       |            |        |            | Weight: 16 lb | FT = 10% |
| LUMBER  |  |  | 8) This truss is | designed in accord | dance wi | th the 2018 |       |            |        |            |               |          |
| TOP CHORD   | 2x4 HF No.2  |  | Internationa     | Building Code sec  | tion 230 | 6.1 and     |       |            |        |            |               |          |
| BOT CHORD   | 2x4 HF No.2<br>2x4 HF No.2   |  |                  | Standard ANSI/TPT  | 1.       |             |       |            |        |            |               |          |
| BRACING   | 2.4111 10.2  |  |                  | Otandard           |          |             |       |            |        |            |               |          |
| TOP CHORD   | Structural wood she  | eathing directly applie  | ed or            |                    |          |             |       |            |        |            |               |          |
| BOT CHORD   | Rigid ceiling directly   | applied or 10-0-0 o  | c                |                    |          |             |       |            |        |            |               |          |
| REACTIONS   | (size) 3= Mecha<br>Max Horiz 4=-46 (LC<br>Max Uplift 3=-23 (LC<br>Max Grav 3=160 (LC                                 | anical, 4= Mechanica<br>C 10)<br>C 9), 4=-23 (LC 8)<br>C 1), 4=160 (LC 1)  | al               |                    |          |             |       |            |        |            |               |          |
| FORCES  | (lb) - Maximum Con   | npression/Maximum  |                  |                    |          |             |       |            |        |            |               |          |
| TOP CHORD   | 1-4=-128/125, 1-2=-  | -23/25, 2-3=-128/100   | )                |                    |          |             |       |            |        |            |               |          |
| BOT CHORD   | 3-4=-65/67   |  |                  |                    |          |             |       |            |        |            |               |          |
| WEBS  | 1-3=-48/48   |  |                  |                    |          |             |       |            |        |            |               |          |
| NOTES   | 0= = 40 \ 1 + 440 \  | (2 I I)  |                  |                    |          |             |       |            |        |            |               |          |
| <ul> <li>Wind: ASC<br/>Vasd=87n</li> <li>II; Exp B;<br/>and C-C C<br/>exposed;<br/>members</li> </ul> | TCDL=4.2psf; BC<br>Enclosed; MWFRS (er<br>Corner (3) zone; cantile<br>end vertical left and ri<br>and forces & MWFRS | (3-second gust)<br>CDL=6.0psf; h=25ft; (<br>nvelope) exterior zor<br>ever left and right<br>ght exposed;C-C for<br>for reactions shown | Cat.<br>ne<br>;  |                    |          |             |       |            |        |            |               | ALLA     |
| 2) Provide a  | dequate drainage to pr   | DL=1.60<br>revent water ponding  | r                |                    |          |             |       |            |        |            | AOMIN         | S ZHA    |
| <ol> <li>This truss</li> </ol>  | has been designed fo   | r a 10.0 psf bottom  | <u>,</u>         |                    |          |             |       |            |        | -          | OF WA         | STATIO V |
| chord live  | load nonconcurrent w   | ith any other live loa   | ds.              |                    |          |             |       |            |        | 1          |               |          |
| on the bot  | ttom chord in all areas  | where a rectangle  | ppsi             |                    |          |             |       |            |        | 2          |               |          |
| 3-06-00 ta  | all by 2-00-00 wide will   | fit between the botto  | om               |                    |          |             |       |            |        |            |               |          |
| chord and   | any other members.   |  |                  |                    |          |             |       |            |        |            |               |          |
| capacity o  | of 405 psi.  | in NO.2 Crushing   |                  |                    |          |             |       |            |        | -          | P 540         | 14 / 2 1 |
| 6) Refer to g   | irder(s) for truss to trus   | ss connections.  |                  |                    |          |             |       |            |        | 2          | FREGIST       | ERE      |
| <ol> <li>Provide m<br/>bearing pl</li> </ol>  | nechanical connection  | (by others) of truss t<br>nding 23 lb uplift at i  | 0<br>oint        |                    |          |             |       |            |        |            | ~S'SIONA      | LENU     |
| 4 and 23 l  | lb uplift at joint 3.  | nanig zo io upint at j   |                  |                    |          |             |       |            |        |            |               |          |
|   |  |  |                  |                    |          |             |       |            |        |            | March         | 26,2024  |



| Job     | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING BLD G   |
|---------|-------|------------|-----|-----|---------------------------------------|
| 3907862 | N22   | Flat       | 1   | 1   | R81482247<br>Job Reference (optional) |

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 25 09:36:52 ID:35bgKP2RzPC0CR8970q6ZxzZ1u1-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





3x4 =

3-6-0

Scale = 1:21.7

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|   | i   |   |  |   |   |  |   |   |   |  |   |
|---|---|---|--|---|---|--|---|---|---|--|---|
| (psf)<br>25.0   | Spacing<br>Plate Grip DOL   | 2-0-0<br>1.15   | CSI<br>TC 0  | 0.21  | <b>DEFL</b><br>Vert(LL)   | in<br>-0.01  | (loc)<br>3-4  | l/defl<br>>999  | L/d<br>240  | PLATES<br>MT20   | <b>GRIP</b><br>185/148  |
| 15.0  | Lumber DOL  | 1.15  | BC (   | 0.10  | Vert(CT)  | -0.01  | 3-4   | >999  | 180   |  |   |
| 0.0*  | Rep Stress Incr<br>Code   | IBC2018/TPI2014   | WB (<br>Matrix-P   | 0.01  | Horz(CT)  | 0.00   | 3   | n/a   | n/a   | Weight: 16 lb  | FT = 10%  |
| 2x4 HF No.2<br>2x4 HF No.2<br>2x4 HF No.2<br>Structural wood she  | athing directly applie  | <ol> <li>This truss is<br/>International<br/>referenced s</li> <li>LOAD CASE(S)</li> </ol>  | designed in accordan<br>Building Code section<br>tandard ANSI/TPI 1.<br>Standard   | nce wi<br>n 230   | th the 2018<br>6.1 and  |  |   |   |   |  |   |
| 3-6-0 oc purlins, ex<br>Rigid ceiling directly  | cept end verticals.<br>applied or 10-0-0 oc   |   |  |   |   |  |   |   |   |  |   |
| (size) 3= Mecha<br>Max Horiz 4=45 (LC<br>Max Uplift 3=-23 (LC<br>Max Grav 3=160 (LC   | nical, 4= Mechanica<br>11)<br>39), 4=-23 (LC 8)<br>31), 4=160 (LC 1)  | I   |  |   |   |  |   |   |   |  |   |
| (lb) - Maximum Com<br>Tension   | pression/Maximum  |   |  |   |   |  |   |   |   |  |   |
| 1-4=-128/124, 1-2=-<br>3-4=-64/66<br>1-3=-47/47   | 23/25, 2-3=-128/100   |   |  |   |   |  |   |   |   |  |   |
|   |   |   |  |   |   |  |   |   |   |  |   |
| E 7-16; Vult=110mph<br>ph; TCDL=4.2psf; BC<br>inclosed; MWFRS (er<br>orner (3) zone; cantile<br>and vertical left and rig<br>and forces & MWFRS<br>DL=1.60 plate grip DO<br>equate drainage to pr<br>has been designed for<br>oad nonconcurrent wi<br>is has been designed for<br>oad nonconcurrent wi<br>is has been designed for<br>on chord in all areas i<br>l by 2-00-00 wide will<br>any other members.<br>s are assumed to be H<br>405 psi.<br>der(s) for truss to trus<br>echanical connection (<br>the capable of withstar<br>o uplift at joint 3. | (3-second gust)<br>DL=6.0psf; h=25ff; C<br>welope) exterior zon<br>wer left and right<br>ght exposed;C-C for<br>for reactions shown;<br>u=1.60<br>event water ponding<br>r a 10.0 psf bottom<br>th any other live load<br>or a live load of 20.0<br>where a rectangle<br>fit between the botto<br>HF No.2 crushing<br>as connections.<br>(by others) of truss to<br>dding 23 lb uplift at jo  | Cat.<br>e<br>ds.<br>psf<br>m<br>oint  |  |   |   |  |   |   | A A A A A A A A A A A A A A A A A A A   | HOMENSIONA   | A 2HAO<br>SHUNCION<br>ERED<br>LENGINO   |
|   | (psf)<br>25.0<br>15.0<br>0.0*<br>10.0<br>2x4 HF No.2<br>2x4 HF No.2<br>2x4 HF No.2<br>2x4 HF No.2<br>2x4 HF No.2<br>Structural wood she<br>3-6-0 oc purlins, ex<br>Rigid ceiling directly<br>bracing.<br>size) 3= Mecha<br>Max Horiz 4=45 (LC<br>Max Uplift 3=-23 (LC<br>Max Grav 3=160 (LC<br>(Ib) - Maximum Com<br>Tension<br>1-4=-128/124, 1-2=-<br>3-4=-64/66<br>1-3=-47/47<br>E 7-16; Vult=110mph<br>ch; TCDL=4.2psf; BC<br>nclosed; MWFRS (er<br>prmer (3) zone; cantile<br>concorcurrent wi<br>has been designed for<br>m chord in all areas<br>by 2-00-00 wide will<br>any other members.<br>s are assumed to be H<br>405 psi.<br>der(s) for truss to trus<br>chanical connection (<br>te capable of withstar<br>uplift at joint 3. | (psf)         Spacing           25.0         15.0           15.0         Lumber DOL           0.0*         10.0           10.0         Rep Stress Incr           Code         Code           2x4 HF No.2         Rep Stress Incr           2x4 HF No.2         Code           2x4 HF No.2         Structural wood sheathing directly applie           3-6-0 oc purlins, except end verticals.         Rigid ceiling directly applied or 10-0-0 oc           size)         3= Mechanical, 4= Mechanical           Max Horiz         4=45 (LC 11)           Max Uplift         3=-23 (LC 9), 4=-23 (LC 8)           Max Grav         3=160 (LC 1), 4=160 (LC 1)           (lb) - Maximum Compression/Maximum         Tension           1-4=-128/124, 1-2=-23/25, 2-3=-128/100         3-4=-64/66           1-3=-47/47         E           E 7-16; Vult=110mph (3-second gust)         ch; TCDL=4.2psf; BCDL=6.0psf; h=25ff; C           ch consed; MWFRS (envelope) exterior zon zmer (3) zone; cantilever left and right           end vertical left and right exposed; C-C for nd forces & MWFRS for reactions shown; b=1.60 plate grip DOL=1.60           squate drainage to prevent water ponding tas been designed for a live load of 20.0 om chord in all areas where a rectangle           by 2-00-00 wide will fit between the botto any other members. | (psf)<br>25.0<br>15.0<br>15.0<br>10.0Spacing<br>Plate Grip DOL<br>1.15<br>Lumber DOL<br>1.15<br>Rep Stress Incr<br>YES<br>Code2-0-0<br>1.15<br>IBC2018/TPI20142x4 HF No.2<br>2x4 HF No.28) This truss is<br>International<br>referenced s<br>2x4 HF No.28) This truss is<br>International<br>referenced s<br>LOAD CASE(S)Structural wood sheathing directly applied or<br>3-6-0 oc purlins, except end verticals.<br>Rigid ceiling directly applied or 10-0-0 oc<br>bracing.<br>size)3= Mechanical, 4= Mechanical<br>Max Horiz 4=45 (LC 11)<br>Max Uplift 3=-23 (LC 9), 4=-23 (LC 8)<br>Max Grav 3=160 (LC 1), 4=160 (LC 1)<br>(lb) - Maximum Compression/Maximum<br>Tension<br>1-4=-128/124, 1-2=-23/25, 2-3=-128/100<br>3-4=-64/66<br>1-3=-47/47E 7-16; Vult=110mph (3-second gust)<br>oh; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat.<br>nclosed; MWFRS (envelope) exterior zone<br>orner (3) zone; cantilever left and right<br>end vertical left and right exposed; C-C for<br>nd forces & MWFRS for reactions shown;<br>bL=1.60 plate grip DOL=1.60<br>equate drainage to prevent water ponding.<br>ias been designed for a 10.0 psf bottom<br>bad nonconcurrent with any other live loads.<br>has been designed for a live load of 20.0psf<br>om chord in all areas where a rectangle<br>by 2-00-00 wide will fit between the bottom<br>any other members.<br>s are assumed to be HF No.2 crushing<br>405 psi.<br>der(s) for truss to truss connections.<br>cchanical connection (by others) of truss to<br>te capable of withstanding 23 lb uplift at joint<br>uplift at joint 3. | (psf)       Spacing       2-0-0       CSI         15.0       Lumber DOL       1.15       BC         10.0°       Rep Stress Incr       YES       WB         2x4 HF No.2       Code       IBC2018/TPI2014       Matrix-P         8)       This truss is designed in accordar International Building Code sectio referenced standard ANSI/TPI 1.       LOAD CASE(S)       Standard         2x4 HF No.2       Structural wood sheathing directly applied or 3-6-0 oc purlins, except end verticals.       Rigid ceiling directly applied or 10-0-0 oc bracing.       Standard         size)       3= Mechanical, 4= Mechanical Vax Horiz 4=45 (LC 11)       Max Uplift 3=-23 (LC 9), 4=-23 (LC 8)       Max Grav 3=160 (LC 1), 4=160 (LC 1)         (lb) - Maximum Compression/Maximum Tension       1-4=-128/124, 1-2=-23/25, 2-3=-128/100       3-4=-64/66         1-3=-47/47       E 7-16; Vult=110mph (3-second gust)       oh; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat.         nclosed; MWFRS for reactions shown;       L=1.60       squate drainage to prevent water ponding.         as been designed for a 10.0 psf bottom       sad hord in all areas where a rectangle         by 20-00 wide will fit between the bottom any other members.       sare assumed to be HF No.2 crushing         405(psi.       derige box on conding.       sare assumed to be HF No.2 crushing         405(psi.       derige bof withstanding 23 lb upli | (pst)       Spacing       2-0-0       CSI         15.0       Lumber DOL       1.15       TC       0.21         0.0*       Rep Stress Incr       YES       WB       0.01         10.0       Code       IBC2018/TPI2014       Matrix-P         2x4 HF No.2       2x4 HF No.2       8)       This truss is designed in accordance will International Building Code section 230 referenced standard ANS/TPI 1.         2x4 HF No.2       2x4 HF No.2       International Building Code section 230 referenced standard ANS/TPI 1.         2x4 HF No.2       Structural wood sheathing directly applied or 3-6-0 oc purlins, except end verticals.       Rigid ceiling directly applied or 10-0-0 oc bracing.         size)       3 = Mechanical, 4= Mechanical Vax Horiz 4=45 (LC 11)       Vax Grav 3=160 (LC 1, 4=160 (LC 1)       (lb) - Maximum Compression/Maximum Tension         1-4=-128/124, 1-2=-23/25, 2-3=-128/100       3-4=64/66       1-3=-47/47         E 7-16; Vult=110mph (3-second gust)       ph; TCDL=4.2psf: BCDL=6.0psf; h=25ft; Cat.       nclosed; MWFRS (envelope) exterior zone symer (3) zone; cantilever left and right exposed; C-C for nd forces & MWFRS for reactions shown; L=1.60 plate grip DOL=1.60       gauate drainage to prevent water ponding.         sas been designed for a 10.0 psf bottom bad nonconcurrent with any other live loads.       has been designed for a 10.0 psf bottom bad nonconcurrent with any other live loads.         has been designed for a 10.0 ps | (psf)       Spacing       2-0-0       CSI       TC       0.21         25.0       Iumber DOL       1.15       IC       0.01       Vert(LT)         0.0*       Reg Stress Incr       YES       BC       0.10       Vert(CT)         10.0       Code       IBC2018/TPI2014       WB       0.01       Hor(CT)         2x4 HF No.2       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         2x4 HF No.2       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         Structural wood sheathing directly applied or 3-6-0 oc purlins, except end verticals.       Rechanical, 4=       Mechanical Verticals.         Rigid celling directly applied or 10-0-0 oc bracing.       3= Mechanical, 4= Mechanical Verticals.       Nath Toti 4=45 (LC 11)         Vax Horiz 4=45 (LC 1)       Vax Horiz 4=45 (LC 1)       Vax Horiz 4=45 (LC 1)       Vartical Va | (pst)       Spacing       2-0-0       CSI       DEFL       in         25.0       Plate Grip DOL       1.15       BC       0.01       Vert(LL)       -0.01         10.0       Reg Stress Incr       YES       Matrix-P       Wert(CT)       -0.01         224 HF No.2       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         2x4 HF No.2       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         Structural wood sheathing directly applied or 3-6-0 oc purlins, except end verticals.       Rigid celling directly applied or 10-0-0 oc bracing.       Structural wood sheathing directly applied or 3-6-0 acy purlins 3-23 (LC 9), 4=23 (LC 8)         Vax Grav 3=160 (LC 1), 4=160 (LC 1)       (lb) - Maximum Compression/Maximum Tension       Matrix-P       Matrix-P         1-4=-128/124, 1-2=-23/25, 2-3=-128/100       3-4=-64/66       1-3=-47/47       1-3=-47/47         E 7-16; Vull=110mph (3-second gust)       br. TCDL=4-2psf; BCDL=6.0psf; h=25f; Cat.       nclosed; MWFRS (reactions shown; N=10-160 paste grip DOL=1.60         apute drainage to prevent water ponding.       sas been designed for a 10.0 psf botom.       has been designed for a 10.0 psf botom.         bas been desig | $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$ | (psf)     Spacing     2-0-0     CSI     0.21       15.0     Lumber POL     1.15     TC     0.21       10.0     Code     IEC2018/TPI2014     WB     0.01       2x4 HF No.2     IEC2018/TPI2014     WB     0.01       2x4 HF No.2     8)     This truss is designed in accordance with the 2018       2x4 HF No.2     10.0     This truss is designed in accordance with the 2018       2x4 HF No.2     10.0     This truss is designed in accordance with the 2018       2x4 HF No.2     10.0     This truss is designed in accordance with the 2018       Structural wood sheathing directly applied or     3-60 oc purlins, except end verticals.       Rigid calling directly applied or 10-0-0 cb bracing.     3-40 (CC 1)       4x HF No.2     3-40 Mechanical       3tar Hoi (C 1), 4-160 (L 1)     10       (lb)     Maximum Compression/Maximum Tension       1-4-128/124, 1-2=23/25, 2-3=-128/100       3-4=-747       E 7-16; Vult=110mph (3-second gust)       br: TOL=4_205; BCDL=6.0ps; h=251; Cat.       not forces & MWPRS for reactions shown;       L=1.00 plate grip DOL=1.60       stad endesigned for a 10.0 psf bottom and notical sets and reas where a rectangle       by 2-000 wide will fit between the bottom any other members.       are assumed to be HF No.2 crushing 405 psi.       405 psi. <tr< td=""><td>(psf)     Spacing     2-0-0     CSI     0.21     DEFL     in     (loc)     l/deft     L/d       10.0     Lumber DoL     1.15     TC     0.21     Vert(C1)     -0.01     3.4     &gt;999     120       10.0     Code     IBC2018/TPI2014     WB     0.01     Her A     &gt;999     180       2x4 HF No.2     Code     IBC2018/TPI2014     Watrix-P     0.01     Her A     &gt;999     180       2x4 HF No.2     International Building Code section 2306.1 and referenced standard ANSI/TP1 1.     LoAD CASE(S)     Standard       2x4 HF No.2     CoD curlins, except end verticals.     Rigid ceiling directly applied or 10-0-0 cb bracing.     Structural wood sheathing directly applied or 10-0-0 cb bracing.       3:20     3 = Mechanical     4= Mechanical     Max Hoiz     4=45 (LC 11)       (lb)     Maximum Compression/Maximum Tension     1-4-128/124, 1-2=23/25, 2-3=-128/100     3-4-28/162       3-3=-4747     E 7-16; Vult=110mph (3-second gust)     5h; CoL=4.0psf; h=251; CoL     5h; CoL=4.0psf; h=251; CoL       ond encosed, MWPRS for reactions shown;     L=1.60 [Lag ing in pDL=1.60     Synate drainage to prevent water ponding, as been designed for a 10.0 psf bottom and north origin at area swhere a rectangle       by 2-0-00 wide will fit between the bottom any other members.     area assumed to be HF No.2 crushing 405 psi.</td><td>(ps)<br/>25.0       Spacing<br/>Plate Grip DOL<br/>Lumber DOL<br/>1.15       CSI<br/>TC       0.21<br/>C       DEFL<br/>Vert(LL)       in       (loc)       Videft       L/d       PLATES<br/>MT20         0.0°       Rep Stress Incr       YES       WE       0.01       Vert(LT)       0.01       3.4       999       180         2x4 HF No.2       Code       BC2010/TPI2014       Matrix-P       WB       0.01       Vert(CT)       0.00       3       n/a       n/a         2x4 HF No.2       FNo.2       PLATES       N This truss is designed in accordance with the 2018<br/>International Building Code section 2306.1 and<br/>referenced standard ANSITP1 1.       LOAD CASE(S)       Standard         Structural wood sheathing directly appled or<br/>36-0 co putines, except end verticals.       Rigid celling directly appled or<br/>36-0 co putines, except end verticals.       Note that the 2018<br/>International Building Code section 2306.1 and<br/>referenced standard ANSITP1 1.       LOAD CASE(S)       Standard         Structural wood sheathing directly appled or<br/>36-0 co putines, except end verticals.       Note Anice Anice</td></tr<> | (psf)     Spacing     2-0-0     CSI     0.21     DEFL     in     (loc)     l/deft     L/d       10.0     Lumber DoL     1.15     TC     0.21     Vert(C1)     -0.01     3.4     >999     120       10.0     Code     IBC2018/TPI2014     WB     0.01     Her A     >999     180       2x4 HF No.2     Code     IBC2018/TPI2014     Watrix-P     0.01     Her A     >999     180       2x4 HF No.2     International Building Code section 2306.1 and referenced standard ANSI/TP1 1.     LoAD CASE(S)     Standard       2x4 HF No.2     CoD curlins, except end verticals.     Rigid ceiling directly applied or 10-0-0 cb bracing.     Structural wood sheathing directly applied or 10-0-0 cb bracing.       3:20     3 = Mechanical     4= Mechanical     Max Hoiz     4=45 (LC 11)       (lb)     Maximum Compression/Maximum Tension     1-4-128/124, 1-2=23/25, 2-3=-128/100     3-4-28/162       3-3=-4747     E 7-16; Vult=110mph (3-second gust)     5h; CoL=4.0psf; h=251; CoL     5h; CoL=4.0psf; h=251; CoL       ond encosed, MWPRS for reactions shown;     L=1.60 [Lag ing in pDL=1.60     Synate drainage to prevent water ponding, as been designed for a 10.0 psf bottom and north origin at area swhere a rectangle       by 2-0-00 wide will fit between the bottom any other members.     area assumed to be HF No.2 crushing 405 psi. | (ps)<br>25.0       Spacing<br>Plate Grip DOL<br>Lumber DOL<br>1.15       CSI<br>TC       0.21<br>C       DEFL<br>Vert(LL)       in       (loc)       Videft       L/d       PLATES<br>MT20         0.0°       Rep Stress Incr       YES       WE       0.01       Vert(LT)       0.01       3.4       999       180         2x4 HF No.2       Code       BC2010/TPI2014       Matrix-P       WB       0.01       Vert(CT)       0.00       3       n/a       n/a         2x4 HF No.2       FNo.2       PLATES       N This truss is designed in accordance with the 2018<br>International Building Code section 2306.1 and<br>referenced standard ANSITP1 1.       LOAD CASE(S)       Standard         Structural wood sheathing directly appled or<br>36-0 co putines, except end verticals.       Rigid celling directly appled or<br>36-0 co putines, except end verticals.       Note that the 2018<br>International Building Code section 2306.1 and<br>referenced standard ANSITP1 1.       LOAD CASE(S)       Standard         Structural wood sheathing directly appled or<br>36-0 co putines, except end verticals.       Note Anice |

| Job     | Truss | Truss Type       | Qty | Ply | MKM LEGACY EAST TOWN CROSSING BLD G   |
|---------|-------|------------------|-----|-----|---------------------------------------|
| 3907862 | N23   | Jack-Open Girder | 1   | 1   | R81482248<br>Job Reference (optional) |

Run: 8,63 S Nov 1 2023 Print: 8,630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 25 09:36:52 ID:uFzybS6CZFz9wMbJUHxWpCzZ1tx-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1 PRMU20240404



1.22 0

| Scale = 1.22.0   |  |  |  |  |  |  |  |   |  |                      |                             |  |                                 |                                    |  |
|--|--|--|--|--|--|--|--|---|--|----------------------|-----------------------------|--|---------------------------------|------------------------------------|--|
| Loading<br>TCLL (roof)<br>TCDL<br>BCLL<br>BCDL   |  | (psf)<br>25.0<br>15.0<br>0.0*<br>10.0  | Spacing<br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code   | 2-0-0<br>1.15<br>1.15<br>NO<br>IBC2018                                       | 3/TPI2014  | CSI<br>TC<br>BC<br>WB<br>Matrix-R  | 0.05<br>0.02<br>0.02   | <b>DEFL</b><br>Vert(LL)<br>Vert(TL)<br>Horiz(TL)  | in<br>n/a<br>n/a<br>0.00               | (loc)<br>-<br>-<br>7 | l/defl<br>n/a<br>n/a<br>n/a | L/d<br>999<br>999<br>n/a   | PLATES<br>MT20<br>Weight: 42 lb | <b>GRIP</b><br>185/148<br>FT = 10% |  |
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>OTHERS<br>BRACING<br>TOP CHORD<br>BOT CHORD<br>REACTIONS   | 2x6 DF No.<br>2x6 DF No.<br>2x4 HF No.<br>2x4 HF No.<br>2x4 HF No.<br>Structural V<br>6-0-0 oc pu<br>Rigid ceilin<br>bracing.<br>(size)<br>Max Horiz<br>Max Uplift<br>(<br>Max Grav<br>(<br>Ub) - Maxin  | .2<br>.2<br>.2<br>.2<br>wood shea<br>urlins, exc<br>g directly<br>7=7-10-0,<br>10=7-10-0,<br>10=7-10-0,<br>10=7-10-0,<br>10=7-10-0,<br>10=7-10-0,<br>10=7-10-0,<br>10=7-10-0,<br>10=7-10-0,<br>10=7-10-0,<br>10=7-10-0,<br>10=7-10-0,<br>10=7-10-0,<br>10=7-10-0,<br>10=7-10-0,<br>10=7-10-0,<br>10=7-10-0,<br>10=7-10-0,<br>10=7-10-0,<br>10=7-10-0,<br>10=7-10-0,<br>10=7-10-0,<br>10=7-10-0,<br>10=7-10-0,<br>10=7-10-0,<br>10=7-10-0,<br>10=7-10-0,<br>10=7-10-0,<br>10=7-10-0,<br>10=7-10-0,<br>10=7-10-0,<br>10=7-10-0,<br>10=7-10-0,<br>10=7-10-0,<br>10=7-10-0,<br>10=7-10-0,<br>10=7-10-0,<br>10=7-10-0,<br>10=7-10-0,<br>10=7-10-0,<br>10=7-10-0,<br>10=7-10-0,<br>10=7-10-0,<br>10=7-10-0,<br>10=7-10-0,<br>10=7-10-0,<br>10=7-10-0,<br>10=7-10-0,<br>10=7-10-0,<br>10=7-10-0,<br>10=7-10-0,<br>10=7-10-0,<br>10=7-10-0,<br>10=7-10-0,<br>10=7-10-0,<br>10=7-10-0,<br>10=7-10-0,<br>10=7-10-0,<br>10=7-10-0,<br>10=7-10-0,<br>10=7-10-0,<br>10=7-10-0,<br>10=7-10-0,<br>10=7-10-0,<br>10=7-10-0,<br>10=7-10-0,<br>10=7-10-0,<br>10=7-10-0,<br>10=7-10-0,<br>10, 10=7-10,<br>10, 10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>10=7-10,<br>1 | athing directly applie<br>sept end verticals.<br>applied or 10-0-0 oc<br>8=7-10-0, 9=7-10-0,<br>1, 11=7-10-0, 12=7-10<br>9), 8=-20 (LC 8), 9=<br>-47 (LC 8), 11=-40<br>5 (LC 8)<br>1), 8=132 (LC 1), 9=<br>=311 (LC 1), 11=356<br>(LC 1)<br>pression/Maximum   | 4)<br>5)<br>6)<br>7)<br>8)<br>d or<br>9)<br>-11<br>(LC<br>85<br>6) (LC<br>12 | All plates are<br>Gable require<br>Truss to be fi<br>braced again<br>Gable studs :<br>This truss ha<br>chord live loa<br>* This truss h<br>on the bottom<br>3-06-00 tall b<br>chord and ar<br>) All bearing plate<br>12, 11 lb upli<br>at joint 11, 47<br>8.           | 2 2x4 MT20 unless<br>es continuous botto<br>ully sheathed from<br>ist lateral movemen<br>spaced at 2-0-0 oc<br>s been designed fr<br>ad nonconcurrent w<br>nas been designed<br>n chord in all areas<br>by 2-00-00 wide will<br>y other members.<br>are assumed to be<br>25 psi.<br>hanical connection<br>capable of withsta<br>ft at joint 7, 11 b u<br>7 lb uplift at joint 10<br>designed in accord<br>Building Code sec<br>trandard ANSUTTE! | otherwi<br>om chor<br>one factor<br>or a 10.0<br>or a 10.0 | se indicated.<br>d bearing.<br>e or securely<br>iagonal web).<br>D psf bottom<br>other live load<br>o ther live load<br>e load of 20.0<br>a rectangle<br>veen the botto<br>2 crushing<br>ers) of truss to<br>6 lb uplift at joi<br>int 9, 40 lb up<br>l b uplift at joi<br>ith the 2018<br>16.1 and | ds.<br>psf<br>m<br>oint<br>olift<br>nt |                      |                             |  |                                 |                                    |  |
| TOP CHORD<br>BOT CHORD<br>WEBS<br>NOTES<br>1) Wind: AS'<br>Vasd=87r<br>II; Exp B;<br>and C-C (<br>exposed ;<br>members<br>Lumber D<br>Lumber D<br>2) Truss de:<br>only. For<br>see Stanc | Tension<br>1-12=-60/5<br>4-5=-8/14,<br>11-12=-40/4<br>8-9=-40/44<br>4-9=-74/53<br>5-8=-101/7<br>CE 7-16; Vult:<br>mph; TCDL=4<br>Enclosed; MV<br>Corner (3) zor<br>; end vertical I<br>and forces &<br>0OL=1.60 plat<br>signed for win<br>situds expose<br>dard Industry (0) | 1, 1-2=-9,<br>5-6=-8/15<br>(44, 10-11,<br>, 7-8=-40,<br>, 2-11=-17<br>7<br>=110mph<br>.2psf; BCI<br>WFRS (en<br>ne; cantile<br>left and ric<br>MWFRS i<br>e grip DO<br>id loads irrid<br>do to wind<br>Gable End   | 8, 2-3=-9/10, 3-4=-8,<br>, 6-7=-61/55<br>=-40/44, 9-10=-40/44<br>44<br>72/135, 3-10=-135/95<br>(3-second gust)<br>DL=6.0psf; h=25ft; C<br>velope) exterior zone<br>ver left and right<br>yht exposed;C-C for<br>for reactions shown;<br>L=1.60<br>the plane of the trus<br>(normal to the face),<br>d Details as applicabl | /12, 13,<br>4, 5, 14<br>at. 1)<br>35<br>55                                   | <ul> <li>Hanger(s) or<br/>provided suff<br/>lb down and<br/>lb up at 3-9-<br/>of such conn<br/>others.</li> <li>In the LOAD<br/>of the truss a<br/>DAD CASE(S)<br/>Dead + Roo<br/>Plate Increa<br/>Uniform Loa<br/>Vert: 1-6:<br/>Concentrate<br/>Vert: 11=</li> </ul> | other connection of<br>icient to support co<br>35 lb up at 1-9-12<br>12 on bottom chorre<br>ection device(s) is<br>CASE(S) section,<br>ire noted as front (I<br>Standard<br>of Live (balanced):<br>ase=1.15<br>adds (lb/ft)<br>=-80, 7-12=-20<br>ed Loads (lb)<br>i-140 (F), 10=-140   | (F)  | ) shall be<br>tted load(s) 14<br>0 lb down and<br>design/selectit<br>bonsibility of<br>oplied to the fa<br>ck (B).<br>Increase=1.1  | 40<br>d 35<br>on<br>ace<br>5,          |                      |                             | A PARTY OF THE PAR | HORESSIONA                      | 3 ZHAO<br>SHAO<br>TA DOTOR         |  |

see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1. 3) Provide adequate drainage to prevent water ponding.



March 26,2024

| Job     | Truss | Truss Type           | Qty | Ply | MKM LEGACY EAST TOWN CROSSING BLD G   |
|---------|-------|----------------------|-----|-----|---------------------------------------|
| 3907862 | P01   | Flat Supported Gable | 2   | 1   | R81482249<br>Job Reference (optional) |

Run: 8,63 S Nov 1 2023 Print: 8,630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 25 09:36:52 ID:b3dUzKYqPLRxImVRJTdgnWzZ4pu-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



1-10-6

Scale 1.20 6

| 00010 - 1.20.0  |   |   |  |  |  |  |   |                             |       |        |     |                     |          |
|---|---|---|--|--|--|--|---|-----------------------------|-------|--------|-----|---------------------|----------|
| Loading   | (psf)   | Spacing   | 2-0-0                                    |  | CSI  |  | DEFL  | in                          | (loc) | l/defl | L/d | PLATES              | GRIP     |
| TCLL (roof)   | 25.0  | Plate Grip DOL  | 1.15                                     |  | TC   | 0.16   | Vert(LL)  | n/a                         | -     | n/a    | 999 | MT20                | 185/148  |
| TCDL  | 15.0  | Lumber DOL  | 1.15                                     |  | BC   | 0.15   | Vert(TL)  | n/a                         | -     | n/a    | 999 |                     |          |
| BCLL  | 0.0*  | Rep Stress Incr   | NO                                       |  | WB   | 0.00   | Horiz(TL)   | 0.00                        | 3     | n/a    | n/a |                     |          |
| BCDL  | 10.0  | Code  | IBC2018/                                 | /TPI2014   | Matrix-R   |  |   |                             |       |        |     | Weight: 7 lb        | FT = 10% |
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>BRACING<br>TOP CHORD<br>BOT CHORD<br>REACTIONS  | 2x4 HF No.2<br>2x4 HF No.2<br>2x4 HF No.2<br>Structural wood sheat<br>1-10-6 oc purlins, e:<br>Rigid ceiling directly<br>bracing.<br>(size) 3=1-10-6,<br>Max Horiz 4=-39 (LC<br>Max Uplift 3=-117 (L<br>Max Gray 3=269 (LC  | athing directly applie<br>xcept end verticals.<br>applied or 10-0-0 oc<br>4=1-10-6<br>; 10)<br>C 32), 4=-117 (LC 20<br>; 33). 4=269 (LC 36)   | 8)<br>9)<br>d or 10)<br>11)<br>9) 12)    | * This truss f<br>on the bottor<br>3-06-00 tall b<br>chord and ar<br>All bearings<br>capacity of 4<br>Provide mec<br>bearing plate<br>4 and 117 lb<br>This truss is<br>International<br>referenced s<br>Load case(s) | as been designed<br>n chord in all area<br>by 2-00-00 wide w<br>y other members<br>are assumed to be<br>of psi.<br>hanical connection<br>o capable of withst<br>uplift at joint 3.<br>designed in accor<br>Building Code se<br>tandard ANSI/TPI<br>1 has/have been | d for a liv<br>as where<br>ill fit betw<br>e HF No.<br>n (by oth<br>tanding 1<br>rdance w<br>ction 230<br>1.<br>n modified | e load of 20.1<br>a rectangle<br>veen the bott<br>2 crushing<br>ers) of truss t<br>17 lb uplift at<br>th the 2018<br>6.1 and<br>4. Building | 0psf<br>om<br>to<br>t joint |       |        |     |                     |          |
| FORCES  | (lb) - Maximum Com<br>Tension<br>1-4=-194/45, 1-2=-9  | pression/Maximum<br>0/83. 2-3=-168/79   | 13)                                      | correct for th<br>This truss ha  | e intended use of<br>s been designed<br>OI = (1.33) Plate  | this trust<br>for a tota   | s.<br>I drag load of<br>=(1.33) Con   | f 100                       |       |        |     |                     |          |
| BOT CHORD   | 3-4=-110/104  |   |  | truss to resis   | t drag loads along   | g bottom   | chord from 0  | -0-0                        |       |        |     |                     |          |
| NOTES   |   |   |  | to 1-10-6 for  | 100.0 plf.   | -  |   |                             |       |        |     |                     |          |
| <ol> <li>Wind: ASC<br/>Vasd=87m<br/>II; Exp B; I<br/>and C-C C<br/>exposed;<br/>members<br/>Lumber D</li> <li>Truss des<br/>only. For<br/>see Stand<br/>or consult</li> </ol> | CE 7-16; Vult=110mph<br>nph; TCDL=4.2psf; BC<br>Enclosed; MWFRS (en<br>corner (3) zone; cantile<br>end vertical left and rig<br>and forces & MWFRS<br>OL=1.60 plate grip DO<br>signed for wind loads ir<br>studs exposed to wind<br>lard Industry Gable End<br>gualified building desig | (3-second gust)<br>DL=6.0psf; h=25ft; C<br>ivelope) exterior zon<br>wer left and right<br>ght exposed;C-C for<br>for reactions shown;<br>IL=1.60<br>n the plane of the tru:<br>(normal to the face)<br>d Details as applicab<br>gner as per ANSI/TP | LO,<br>cat. 1)<br>e<br>ss<br>le,<br>l 1. | AD CASE(S)<br>Dead + Roo<br>Plate Increa<br>Uniform Loo<br>Vert: 1-2   | Standard<br>of Live (balanced)<br>ase=1.15<br>ads (lb/ft)<br>=-164, 3-4=-20  | : Lumber   | Increase=1.   | 15,                         |       |        | نو  | THAOMIN<br>THAOF WA | G ZHAO   |

- 3) /ide adequate draina o prevent v pondir 4)́ Gable requires continuous bottom chord bearing.
- 5) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc. 6)
- This truss has been designed for a 10.0 psf bottom 7) chord live load nonconcurrent with any other live loads.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



PORESSIONAL ENGINE

Page: 1 PRMU20240404

| Job     | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING BLD G   |
|---------|-------|------------|-----|-----|---------------------------------------|
| 3907862 | P02   | Flat       | 2   | 1   | R81482250<br>Job Reference (optional) |

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 25 09:36:52 ID:vrlzY1TBkVbEUMkBh4VBGGzZ4nO-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1 PRMU20240404





Scale = 1:20.6

| Loading  | (psf)  | Spacing  | 2-0-0  | CSI  |   | DEFL  | in                       | (loc) | l/defl | L/d                                   | PLATES       | GRIP                                 |
|--|--|--|--|--|---|---|--------------------------|-------|--------|---------------------------------------|--------------|--------------------------------------|
| TCLL (roof)  | 25.0   | Plate Grip DOL   | 1.15   | TC   | 0.16  | Vert(LL)  | 0.00                     | 3-4   | >999   | 240                                   | MT20         | 185/148                              |
| TCDL   | 15.0   | Lumber DOL   | 1.15   | BC   | 0.15  | Vert(CT)  | 0.00                     | 3-4   | >999   | 180                                   |              |                                      |
| BCLL   | 0.0*   | Rep Stress Incr  | NO   | WB   | 0.00  | Horz(CT)  | 0.00                     | 3     | n/a    | n/a                                   |              | <b>FT</b> 400/                       |
| BCDL   | 10.0   | Code   | IBC2018/TPI2014  | Matrix-R   |   |   |                          |       |        |                                       | Weight: 7 lb | FI = 10%                             |
| ECDL<br>LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>BRACING<br>TOP CHORD<br>BOT CHORD<br>BOT CHORD<br>BOT CHORD<br>BOT CHORD<br>DOT CHORD<br>NOTES<br>1) Wind: ASG<br>Vasd=87n<br>II; Exp B;<br>and C-C C<br>exposed ;<br>members<br>Lumber D<br>2) Provide ard<br>3) This truss<br>on the bot<br>3-06-00 ta<br>chord and<br>5) All bearing<br>capacity of<br>6) Refer to g<br>7) Provide m<br>bearing pl<br>4 and 117 | 10.0<br>2x4 HF No.2<br>2x4 HF No.2<br>2x4 HF No.2<br>2x4 HF No.2<br>Structural wood she<br>1-10-6 oc purlins, e<br>Rigid ceiling directly<br>bracing.<br>(size) 3= Mecha<br>Max Horiz 4=-39 (LC<br>Max Uplift 3=-117 (L<br>Max Grav 3=269 (LC<br>(lb) - Maximum Com<br>Tension<br>1-4=-191/47, 1-2=-9<br>3-4=-108/104<br>CE 7-16; Vult=110mph<br>mph; TCDL=4.2psf; BC<br>Enclosed; MWFRS (er<br>Corner (3) zone; cantile<br>end vertical left and rig<br>and forces & MWFRS<br>OL=1.60 plate grip DO<br>dequate drainage to pr<br>has been designed for<br>load nonconcurrent wiss<br>shas been desig | Code<br>athing directly applied<br>xcept end verticals.<br>applied or 10-0-0 oc<br>10)<br>C 32), 4=-117 (LC 25<br>C 32), 4=-269 (LC 36)<br>pression/Maximum<br>0/81, 2-3=-168/77<br>(3-second gust)<br>DL=6.0psf; h=25ft; C<br>welope) exterior zone<br>wer left and right<br>ght exposed; C-C for<br>for reactions shown;<br>L=1.60<br>event water ponding.<br>r a 10.0 psf bottom<br>th any other live load<br>or a live load of 20.0p<br>where a rectangle<br>fit between the bottor<br>HF No.2 crushing<br>as connections.<br>(by others) of truss to<br>adding 117 lb uplift at j | A solution of the second secon | Matrix-R<br>designed in accord:<br>Building Code sect<br>tandard ANSI/TPI 1<br>) 1 has/have been r<br>st review loads to w<br>the intended use of th<br>as been designed fo<br>DOL=(1.33) Plate g<br>st drag loads along to<br>100.0 plf.<br>Standard<br>of Live (balanced): I<br>ase=1.15<br>ads (lb/ft)<br>:=-164, 3-4=-20 | ance w<br>ion 230<br>nodifiec<br>erify tha<br>is truss<br>r a tota<br>rip DOL<br>bottom | th the 2018<br>6.1 and<br>4. Building<br>at they are<br>5.<br>I drag load of 1<br>=(1.33) Conn<br>chord from 0-C<br>Increase=1.1! | 100<br>lect<br>D-0<br>5, |       |        | A A A A A A A A A A A A A A A A A A A | Weight: 7 lb | G ZHAO<br>Mana<br>TA BER<br>L ENGINE |

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



| Job     | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING BLD G   |
|---------|-------|------------|-----|-----|---------------------------------------|
| 3907862 | P03   | Flat       | 18  | 1   | R81482251<br>Job Reference (optional) |

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 25 09:36:52 ID:5s87qU2k6Rzn5KgAINqgXgzZ4IM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





3



Scale = 1:20.6

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| Loading<br>TCLL (roof)<br>TCDL<br>BCLL<br>BCDL  | (psf)<br>25.0<br>15.0<br>0.0*<br>10.0   | Spacing<br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code   | 2-0-0<br>1.15<br>1.15<br>NO<br>IBC2018/TPI20   | 14   | <b>CSI</b><br>TC<br>BC<br>WB<br>Matrix-R   | 0.16<br>0.15<br>0.00  | DEFL<br>Vert(LL)<br>Vert(CT)<br>Horz(CT)  | in<br>0.00<br>0.00<br>0.00 | (loc)<br>3-4<br>3-4<br>3 | l/defl<br>>999<br>>999<br>n/a | L/d<br>240<br>180<br>n/a  | PLATES<br>MT20<br>Weight: 7 lb | <b>GRIP</b><br>185/148<br>FT = 10%    |
|---|---|--|--|--|--|---|---|----------------------------|--------------------------|-------------------------------|---|--------------------------------|---------------------------------------|
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>BRACING<br>TOP CHORD<br>BOT CHORD<br>BOT CHORD<br>REACTIONS<br>FORCES<br>TOP CHORD<br>BOT CHORD<br>BOT CHORD<br>BOT CHORD<br>NOTES<br>1) Wind: ASC<br>Vasd=87m<br>II; Exp B; E<br>and C-C C<br>vasd=87m<br>II; Exp B; E<br>and C-C C<br>Provide ad<br>3) This truss<br>chord live I<br>4) * This truss<br>on the bott<br>3: Of the bott | 2x4 HF No.2<br>2x4 HF No.2<br>2x4 HF No.2<br>2x4 HF No.2<br>Structural wood she<br>1-10-6 oc purlins, e<br>Rigid ceiling directly<br>bracing.<br>(size) 3= Mecha<br>Max Uplif 3=-117 (L<br>Max Grav 3=269 (LC<br>(Ib) - Maximum Com<br>Tension<br>1-4=-191/47, 1-2=-9<br>3-4=-108/104<br>2E 7-16; Vult=110mph<br>ph; TCDL=4.2psf; BC<br>Enclosed; MWFRS (er<br>orner (3) zone; cantile<br>end vertical left and rig<br>and forces & MWFRS<br>DL=1.60 plate grip DO<br>lequate drainage to pr<br>has been designed for<br>om chord in all areas is<br>any other members.<br>s are assumed to be H<br>i 405 psi.<br>rder(s) for truss to trus<br>echanical connection (<br>ate capable of withstar<br>Ib uplift at joint 3. | athing directly applied<br>xcept end verticals.<br>applied or 10-0-0 oc<br>1:10)<br>C 32), 4=-117 (LC 29<br>C 33), 4=269 (LC 36)<br>pression/Maximum<br>0/81, 2-3=-168/77<br>(3-second gust)<br>DL=6.0psf; h=25ft; Ca<br>velope) exterior zone<br>ver left and right<br>ght exposed;C-C for<br>for reactions shown;<br>L=1.60<br>event water ponding.<br>a 10.0 psf bottom<br>th any other live load<br>or a live load of 20.0p<br>where a rectangle<br>fit between the bottor<br>HF No.2 crushing<br>as connections.<br>by others) of truss to<br>iding 117 lb uplift at jo | 8) This t<br>Intern<br>refere<br>9) Load<br>desig<br>correct<br>10) This t<br>plf. Lu<br>truss<br>to 1-1<br>LOAD C/<br>1) Dea<br>Plate<br>Unif<br>V<br>at. | russ is ational<br>ational<br>inced si<br>case(s)<br>mer mus<br>to resis<br>0-6 for<br><b>SE(S)</b><br>d + Roce<br>a Increa<br>form Loa<br>art: 1-2: | designed in accord<br>Building Code sect<br>andard ANSI/TPI 1<br>1 has/have been r<br>is treview loads to v<br>e intended use of tt<br>s been designed fc<br>ODL=(1.33) Plate g<br>t drag loads along I<br>100.0 plf.<br>Standard<br>of Live (balanced): I<br>se=1.15<br>ads (Ib/ft)<br>=-164, 3-4=-20 | ance wi<br>tion 230<br>I.<br>modifiec<br>erify thas<br>or a tota<br>rip DOL<br>bottom<br>Lumber | th the 2018<br>6.1 and<br>I. Building<br>it they are<br>5.<br>I drag load of<br>=(1.33) Conn<br>chord from 0-C<br>Increase=1.19 | 100<br>ect<br>)-0<br>5,    |                          | £                             | A STATE OF | HORESSIONA                     | G ZHIAO<br>SHINO<br>TABLED<br>LENGING |

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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 BLD G   |
|---------|-------|--------------|-----|-----|---------------------------------------|
| 3907862 | P04   | Roof Special | 2   | 1   | R81482252<br>Job Reference (optional) |

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 25 09:36:52 ID:IuoFvOSO6GR8AHIHdLpIGjzZ2Jv-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





1-9-5

2x4 ॥

0-9-4

2x4 II

Scale = 1:23.9

joint 4 and 187 lb uplift at joint 3.

|                                     |                               | i                       |               |  |                 |                       |      |       |        |     |              |          |
|-------------------------------------|-------------------------------|-------------------------|---------------|--|-----------------|-----------------------|------|-------|--------|-----|--------------|----------|
| Loading                             | (psf)                         | Spacing                 | 2-0-0         | csi  |                 | DEFL                  | in   | (loc) | l/defl | L/d | PLATES       | GRIP     |
| TCLL (roof)                         | 25.0                          | Plate Grip DOL          | 1.15          | TC   | 0.08            | Vert(LL)              | 0.00 | 4     | >999   | 240 | MT20         | 185/148  |
| TCDL                                | 15.0                          | Lumber DOL              | 1.15          | BC   | 0.04            | Vert(CT)              | 0.00 | 4     | >999   | 180 |              |          |
| BCLL                                | 0.0*                          | Rep Stress Incr         | NO            | WB   | 0.00            | Horz(CT)              | 0.00 | 3     | n/a    | n/a |              |          |
| BCDL                                | 10.0                          | Code                    | IBC2018/TPI20 | 014 Matrix-R                               |                 |                       |      |       |        |     | Weight: 5 lb | FT = 10% |
|                                     |                               |                         |               |  |                 |                       |      |       |        |     |              |          |
| LUMBER                              |                               |                         | 8) This       | truss is designed in a                     | ccordance w     | ith the 2018          |      |       |        |     |              |          |
| TOP CHORD                           | 2x4 DF No.2                   |                         | Interi        | national Building Code                     | e section 230   | 6.1 and               |      |       |        |     |              |          |
| BOT CHORD                           | 2x4 DF 1800F 1.6E             |                         | reter         | enced standard ANSI                        | /IPI1.          | . Du di di su si      |      |       |        |     |              |          |
| WEBS                                | 2x4 HF No.2                   |                         | 9) Load       | case(s) 1 has/have b                       | been modified   | a. Building           |      |       |        |     |              |          |
| BRACING                             |                               |                         | desig         | of for the intended up                     | s to verify the | at they are           |      |       |        |     |              |          |
| TOP CHORD                           | Structural wood she           | athing directly applie  | d or 10) This | trues has been design                      | e of this trus  | s.<br>Il drag load of | 100  |       |        |     |              |          |
|                                     | 0-9-4 oc purlins, ex          | cept end verticals.     | nlf I         | 1033  Has been designumber DOI = (1.33) Pl | late grin DOI   | -(1.33) Con           | noct |       |        |     |              |          |
| BOT CHORD                           | Rigid ceiling directly        | applied or 10-0-0 oc    | truss         | to resist drag loads a                     | long bottom     | chord from 0-         | 0-0  |       |        |     |              |          |
|                                     | bracing.                      |                         | to 0-9        | -4 for 100 0 plf                           | long bottom     |                       | 00   |       |        |     |              |          |
| REACTIONS                           | (size) 3= Mecha               | anical, 4= Mechanica    |               | ASE(S) Standard                            |                 |                       |      |       |        |     |              |          |
|                                     | Max Horiz 4=-37 (LC           | C 10)                   | 1) Dea        | d + Roof Live (balance                     | ced): Lumber    | Increase=1.1          | 15   |       |        |     |              |          |
|                                     | Max Uplift 3=-187 (L          | .C 32), 4=-187 (LC 2    | Plat          | e Increase=1.15                            |                 | 11010000-111          | ,    |       |        |     |              |          |
|                                     | Max Grav 3=233 (L0            | C 33), 4=233 (LC 36)    | Unit          | orm Loads (lb/ft)                          |                 |                       |      |       |        |     |              |          |
| FORCES                              | (lb) - Maximum Com<br>Tension | pression/Maximum        | V             | 'ert: 1-2=-164, 3-4=-2                     | 0               |                       |      |       |        |     |              |          |
| TOP CHORD                           | 1-4=-137/75, 1-2=-2           | 9/27, 2-3=-114/103      |               |  |                 |                       |      |       |        |     |              |          |
| BOT CHORD                           | 3-4=-58/44                    |                         |               |  |                 |                       |      |       |        |     |              |          |
| NOTES                               |                               |                         |               |  |                 |                       |      |       |        |     |              |          |
| 1) Wind: AS                         | CE 7-16: Vult=110mph          | (3-second aust)         |               |  |                 |                       |      |       |        |     |              |          |
| Vasd=87r                            | nph; TCDL=4.2psf; BC          | DL=6.0psf; h=25ft; C    | at.           |  |                 |                       |      |       |        |     |              |          |
| II; Exp B;                          | Enclosed; MWFRS (er           | velope) exterior zon    | е             |  |                 |                       |      |       |        |     |              |          |
| and C-C C                           | Corner (3) zone; cantile      | ever left and right     |               |  |                 |                       |      |       |        |     |              |          |
| exposed ;                           | end vertical left and right   | ght exposed;C-C for     |               |  |                 |                       |      |       |        |     |              |          |
| members                             | and forces & MWFRS            | for reactions shown;    |               |  |                 |                       |      |       |        |     |              |          |
| Lumber D                            | OL=1.60 plate grip DO         | DL=1.60                 |               |  |                 |                       |      |       |        |     |              |          |
| 2) Provide a                        | dequate drainage to pr        | event water ponding     |               |  |                 |                       |      |       |        |     | OMIN         | GZD      |
| <ol><li>This truss</li></ol>        | has been designed for         | r a 10.0 psf bottom     |               |  |                 |                       |      |       |        |     | 4 In W       | A GE AO  |
| chord live                          | load nonconcurrent wi         | ith any other live load | ls.           |  |                 |                       |      |       |        | 7   | OF WI        | TO AND A |
| <ol> <li>A) A I his trus</li> </ol> | ss has been designed f        | or a live load of 20.0  | pst           |  |                 |                       |      |       |        | 7   | S A          |          |
|                                     | ttom chord in all areas       | where a rectangle       | ~             |  |                 |                       |      |       |        | 5   |              |          |
| S-00-00 la                          | all by 2-00-00 wide will      | in between the bollo    |               |  |                 |                       |      |       |        |     |              |          |
| 5) All bearing                      | any other members.            | HE No 2 crushing        |               |  |                 |                       |      |       |        |     |              |          |
| canacity c                          | 93 and assumed to be i        | in 140.2 Grushing       |               |  |                 |                       |      |       |        |     |              |          |
| 6) Refer to a                       | irder(s) for truss to trus    | ss connections          |               |  |                 |                       |      |       |        | -   | 3 540        | 74 2 5 1 |
| 7) Provide m                        | nechanical connection (       | (by others) of truss to | ,             |  |                 |                       |      |       |        | -   | Op EGIC      | TEREY S  |
| bearing pl                          | late capable of withstar      | nding 187 lb uplift at  |               |  |                 |                       |      |       |        |     | ESer         | NGI      |

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| Job     | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING BLD G   |
|---------|-------|------------|-----|-----|---------------------------------------|
| 3907862 | P05   | Flat       | 8   | 1   | R81482253<br>Job Reference (optional) |

Run: 8,63 S Nov 1 2023 Print: 8,630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 25 09:36:52 ID:xIroSp9HJOzJrq4jsNPfQ9zZ2La-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





3x4 II

3x4 ш

1-10-6

Scale = 1:20.3

| Loading  | (psf)   | Spacing  | 2-0-0  | CSI   |   | DEFL   | in                       | (loc) | l/defl | L/d  | PLATES  | GRIP   |
|--|---|--|--|---|---|--|--------------------------|-------|--------|--|---|--|
| TCLL (roof)  | 25.0  | Plate Grip DOL   | 1.15   | тс  | 0.14  | Vert(LL)   | 0.00                     | 3-4   | >999   | 240  | MT20  | 185/148  |
| TCDL   | 15.0  | Lumber DOL   | 1.15   | BC  | 0.14  | Vert(CT)   | 0.00                     | 3-4   | >999   | 180  |   |  |
| BCLL   | 0.0*  | Rep Stress Incr  | NO   | WB  | 0.00  | Horz(CT)   | 0.00                     | 3     | n/a    | n/a  |   |  |
| BCDL   | 10.0  | Code   | IBC2018/TPI2014  | Matrix-R  |   |  |                          |       |        |  | Weight: 7 lb  | FT = 10%   |
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>BRACING<br>TOP CHORD<br>BOT CHORD<br>BOT CHORD<br>BOT CHORD<br>REACTIONS (<br>FORCES<br>TOP CHORD<br>BOT CHORD<br>BOT CHORD<br>BOT CHORD<br>BOT CHORD<br>NOTES<br>1) Wind: ASCI<br>Vasd=87my<br>II; Exp 8; E<br>and C-C Cc<br>exposed ; e<br>members a<br>Lumber DO<br>2) Provide add<br>3) This truss h<br>chord live Id<br>3) This truss<br>on the botto<br>3-06-00 tall<br>chord and a<br>5) All bearings<br>capacity of<br>6) Refer to gin<br>7) Provide me<br>bearing plar<br>joint 4 and | 2x4 HF No.2<br>2x4 HF No.2<br>2x4 HF No.2<br>2x4 HF No.2<br>Structural wood she<br>1-10-6 oc purlins, e<br>Rigid ceiling directly<br>bracing.<br>(size) 3= Mecha<br>Max Horiz 4=-37 (LC<br>Max Uplift 3=-105 (L<br>Max Grav 3=257 (LC<br>(lb) - Maximum Com<br>Tension<br>1-4=-185/44, 1-2=-9<br>3-4=-106/103<br>E 7-16; Vult=110mph<br>ph; TCDL=4.2psf; BC<br>inclosed; MWFRS (er<br>orner (3) zone; cantile<br>and vertical left and rig<br>ind forces & MWFRS<br>DL=1.60 plate grip DC<br>equate drainage to pr<br>oras been designed fo<br>ord nonconcurrent wi<br>is has been designed for<br>ord nonconcurrent wi<br>is has been designed for ord nonconcurrent wi<br>is has been designed for ord nonconcurrent wi<br>is has been designed for ord nonconcurrent wi<br>is has be | athing directly applier<br>xcept end verticals.<br>applied or 10-0-0 oc<br>inical, 4= Mechanical<br>(30)<br>C 32), 4=-105 (LC 25)<br>C 33), 4=257 (LC 36)<br>pression/Maximum<br>0/80, 2-3=-164/70<br>(3-second gust)<br>DL=6.0psf; h=25ft; C<br>ivelope) exterior zone<br>wer left and right<br>ght exposed;C-C for<br>for reactions shown;<br>JL=1.60<br>event water ponding.<br>r a 10.0 psf bottom<br>th any other live load<br>or a live load of 20.0p<br>where a rectangle<br>fit between the bottor<br>HF No.2 crushing<br>ss connections.<br>(by others) of truss to<br>nding 105 lb uplift at | <ul> <li>8) This truss is<br/>Internationa<br/>referenced s</li> <li>9) Load case(s</li> <li>9) Load case(s</li> <li>9) Load rase(s</li> <li>9) Load rase(s</li> <li>10) This truss haplif. Lumber<br/>truss to resis<br/>to 1-10-6 for<br/>LOAD CASE(S)</li> <li>1) Dead + Ro<br/>Plate Incre<br/>Uniform Lo<br/>Vert: 1-2</li> </ul> | designed in accord<br>Building Code sec<br>trandard ANSI/TPI -<br>) 1 has/have been i<br>st review loads to v<br>te intended use of t<br>as been designed fo<br>DOL=(1.33) Plate g<br>t drag loads along<br>100.0 plf.<br>Standard<br>of Live (balanced):<br>ase=1.15<br>ads (lb/ft)<br>[==164, 3-4=-20 | lance w<br>tion 230<br>1.<br>modifie<br>rerify tha<br>his trust<br>or a tota<br>pol<br>bottom<br>Lumber | L<br>ith the 2018<br>36.1 and<br>3. Building<br>at they are<br>s.<br>I drag load of<br>.=(1.33) Conr<br>chord from 0<br>Increase=1.1 | 100<br>hect<br>0-0<br>5, |       |        | and a second sec | THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAOMIN<br>THAO<br>THAOMIN<br>THAO<br>THAOMIN<br>THAO<br>THAO<br>THAO<br>THAOMIN<br>THAO<br>THAO<br>THAO<br>THAO<br>THAO<br>THAO<br>THAO<br>THAO | G ZHAO<br>SHINGING<br>TA DI TUTO<br>TA DI TUTO<br>TUTO<br>TUTO<br>TUTO<br>TUTO<br>TUTO<br>TUTO<br>TUTO |

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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 BLD G   |
|---------|-------|----------------------|-----|-----|---------------------------------------|
| 3907862 | P06   | Flat Supported Gable | 27  | 1   | R81482254<br>Job Reference (optional) |

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 25 09:36:53 ID:h0igQIY9IDDrRJJBNWDy\_0zZ21i-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





Scale = 1:21.8

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

|               |                           |                          |   | _                              |               |                   |      |       |        |     |              |          |
|---------------|---------------------------|--------------------------|---|--------------------------------|---------------|-------------------|------|-------|--------|-----|--------------|----------|
| Loading       | (psf)                     | Spacing                  | 2-0-0                                   | csi                            |               | DEFL              | in   | (loc) | l/defl | L/d | PLATES       | GRIP     |
| TCLL (roof)   | 25.0                      | Plate Grip DOL           | 1.15                                    | TC                             | 0.36          | Vert(LL)          | n/a  | -     | n/a    | 999 | MT20         | 185/148  |
| TCDL          | 15.0                      | Lumber DOL               | 1.15                                    | BC                             | 0.32          | Vert(TL)          | n/a  | -     | n/a    | 999 |              |          |
| BCLL          | 0.0*                      | Rep Stress Incr          | NO                                      | WB                             | 0.00          | Horiz(TL) (       | 0.00 | 3     | n/a    | n/a |              |          |
| BCDL          | 10.0                      | Code                     | IBC2018/TPI2014                         | Matrix-R                       |               |                   |      |       |        |     | Weight: 8 lb | FT = 10% |
|               |                           |                          |   |                                |               |                   | -    |       |        |     |              |          |
| LUMBER        |                           |                          | 8) * This truss                         | has been designe               | ed for a liv  | e load of 20.0ps  | f    |       |        |     |              |          |
| TOP CHORD     | 2x4 HF No.2               |                          | on the botto                            | m chord in all are             | as where      | a rectangle       |      |       |        |     |              |          |
| BOT CHORD     | 2x4 HF No.2               |                          | 3-06-00 tall                            | by 2-00-00 wide v              | will fit betw | veen the bottom   |      |       |        |     |              |          |
| WEBS          | 2x4 HF No.2               |                          |   | iny other members              | S.            | 0 anuahina        |      |       |        |     |              |          |
| BRACING       |                           |                          | 9) All bearings                         | Are assumed to t               | DE HE NO.     | 2 crushing        |      |       |        |     |              |          |
| TOP CHORD     | Structural wood she       | athing directly applie   | d or 10) Provide me                     | 400 psi.<br>chanical connectiv | on (by oth    | ore) of truce to  |      |       |        |     |              |          |
|               | 1-10-6 oc purlins, e      | xcept end verticals.     | hearing nlat                            | e canable of with              | standing ?    | 92 lb unlift at   |      |       |        |     |              |          |
| BOT CHORD     | Rigid ceiling directly    | applied or 10-0-0 oc     | ioint 4 and 3                           | 392 lb uplift at ioin          | nt 3          |                   |      |       |        |     |              |          |
|               | bracing.                  |                          | 11) This truss is                       | designed in acco               | ordance w     | ith the 2018      |      |       |        |     |              |          |
| REACTIONS     | (size) 3=1-10-6,          | 4=1-10-6                 | Internationa                            | I Building Code se             | ection 230    | )6.1 and          |      |       |        |     |              |          |
|               | Max Horiz 4=45 (LC        | 35)                      | referenced                              | standard ANSI/TF               | 기 1.          |                   |      |       |        |     |              |          |
|               | Max Uplift 3=-392 (L      | .C 32), 4=-392 (LC 2     | <ol> <li>9) 12) This truss h</li> </ol> | as been designed               | d for a tota  | I drag load of 20 | 0    |       |        |     |              |          |
|               | Max Grav 3=412 (LC        | 5 33), 4=412 (LC 36)     | plf. Lumber                             | DOL=(1.33) Plate               | e grip DOL    | .=(1.33) Connec   | rt   |       |        |     |              |          |
| FORCES        | (lb) - Maximum Com        | pression/Maximum         | truss to resi                           | st drag loads alon             | ng bottom     | chord from 0-0-0  | )    |       |        |     |              |          |
|               |                           | 104/407 0.0 004/0        | to 1-10-6 fo                            | r 200.0 plf.                   |               |                   |      |       |        |     |              |          |
|               | 1-4=-234/207, 1-2=-       | 164/167, 2-3=-204/2      | 52 LOAD CASE(S                          | ) Standard                     |               |                   |      |       |        |     |              |          |
| BOTCHORD      | 3-4=-200/101              |                          |   |                                |               |                   |      |       |        |     |              |          |
| NOTES         |                           | (a                       |   |                                |               |                   |      |       |        |     |              |          |
| 1) Wind: AS   | CE 7-16; Vult=110mph      | (3-second gust)          |   |                                |               |                   |      |       |        |     |              |          |
| Vaso=87n      | npn; TCDL=4.2pst; BC      | DL=6.0pst; $n=25\pi$ ; C | ,at.                                    |                                |               |                   |      |       |        |     |              |          |
| II; EXP B;    | Enclosed; IVIVERS (en     | ivelope) exterior zon    | e                                       |                                |               |                   |      |       |        |     |              |          |
| and C-C C     | and vertical left and rid | abt exposed C-C for      |   |                                |               |                   |      |       |        |     |              |          |
| members       | and forces & MWFRS        | for reactions shown      |   |                                |               |                   |      |       |        |     |              |          |
| Lumber D      | OI = 1.60 plate grip DO   | 1 = 1.60                 |   |                                |               |                   |      |       |        |     | OMIN         | G Zn     |
| 2) Truss des  | signed for wind loads in  | the plane of the tru     | SS                                      |                                |               |                   |      |       |        |     | JA           | A        |
| only. For     | studs exposed to wind     | (normal to the face)     |   |                                |               |                   |      |       |        |     | OF WI        | ASHIN    |
| see Stand     | ard Industry Gable End    | d Details as applicab    | je,                                     |                                |               |                   |      |       |        | 7   | S DI         |          |
| or consult    | qualified building desig  | gner as per ANSI/TP      | 4 Í.                                    |                                |               |                   |      |       |        | -   |              |          |
| 3) Provide a  | dequate drainage to pr    | event water ponding      |   |                                |               |                   |      |       |        |     |              |          |
| 4) Gable req  | uires continuous bottor   | m chord bearing.         |   |                                |               |                   |      |       |        |     |              |          |
| 5) Truss to b | e fully sheathed from c   | one face or securely     |   |                                |               |                   |      |       |        |     |              |          |
| braced ag     | ainst lateral movement    | t (i.e. diagonal web).   |   |                                |               |                   |      |       |        |     | 3 , 540      | 74 8     |
| 6) Gable stu  | ds spaced at 2-0-0 oc.    |                          |   |                                |               |                   |      |       |        |     | ON REGION    | TORES A  |
| 7) This truss | has been designed for     | r a 10.0 psf bottom      |   |                                |               |                   |      |       |        | -   | Escus        | CIT A    |
| chord live    | load nonconcurrent wi     | th any other live load   | ls.                                     |                                |               |                   |      |       |        |     | SIONA        | LEN      |
|               |                           |                          |   |                                |               |                   |      |       |        |     |              |          |
|               |                           |                          |   |                                |               |                   |      |       |        |     |              |          |





| Job     | Truss | Truss Type           | Qty | Ply | MKM LEGACY EAST TOWN CROSSING BLD G   |
|---------|-------|----------------------|-----|-----|---------------------------------------|
| 3907862 | P07   | Flat Supported Gable | 26  | 1   | R81482255<br>Job Reference (optional) |

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 25 09:36:53

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Page: 1



1-8-14

Scale = 1:21.8 Plate Offsets (X, Y); [1:Edge.0-1-12], [2:Edge.0-1-12], [3:Edge.0-1-12], [4:Edge.0-1-12]

|   | , [z.=uge,0 1 12], [0.   | Euge,0 1 12], [4:Euge,  | 0 1 12]   |   |   |                                  |                      |                             |   |                                |  |  |
|---|--|---|---|---|---|----------------------------------|----------------------|-----------------------------|---|--------------------------------|--|--|
| Loading         (psf)           TCLL (roof)         25.0           TCDL         15.0           BCLL         0.0*           BCDL         10.0  | Spacing<br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code   | 2-0-0<br>1.15<br>1.15<br>NO<br>IBC2018/TPI2014  | CSI<br>TC<br>BC<br>WB<br>Matrix-R   | 0.44<br>0.39<br>0.00  | <b>DEFL</b><br>Vert(LL)<br>Vert(TL)<br>Horiz(TL)  | in<br>n/a<br>n/a<br>0.00         | (loc)<br>-<br>-<br>3 | l/defl<br>n/a<br>n/a<br>n/a | L/d<br>999<br>999<br>n/a  | PLATES<br>MT20<br>Weight: 8 lb | <b>GRIP</b><br>185/148<br>FT = 10%             |  |
| LUMBER<br>TOP CHORD 2x4 HF No.2<br>BOT CHORD 2x4 HF No.2<br>BOT CHORD 2x4 HF No.2<br>WEBS 2x4 HF No.2<br>BRACING<br>TOP CHORD Structural wood shea<br>1-8-14 oc purlins, ex<br>BOT CHORD Rigid ceiling directly:<br>bracing.<br>REACTIONS (size) 3=1-8-14,<br>Max Horiz 4=-45 (LC<br>Max Uplift 3=-532 (LC<br>C Max Uplift 3=-532 (LC<br>C Max Grav 3=550 (LC<br>FORCES (lb) - Maximum Comp<br>Tension<br>TOP CHORD 1-4=-301/273, 1-2=-2<br>BOT CHORD 3-4=-243/223<br>NOTES<br>1) Wind: ASCE 7-16; Vult=110mph<br>Vasd=87mph; TCDL=4.2psf; BCL<br>II; Exp B; Enclosed; MWFRS (env<br>and C-C Corner (3) zone; cantilex<br>exposed ; end vertical left and rig<br>members and forces & MWFRS for<br>Lumber DOL=1.60 plate grip DOI<br>2) Truss designed for wind loads in<br>only. For studs exposed to wind<br>see Standard Industry Gable End<br>or consult qualified building desig<br>3) Provide adequate drainage to pre<br>4) Gable requires continuous bottom<br>5) Truss to be fully sheathed from on<br>braced against lateral movement<br>6) Gable studs spaced at 2-0-0 oc.<br>7) This truss has been designed for<br>chord live load nonconcurrent wit | athing directly applied<br>(cept end verticals.<br>applied or 10-0-0 oc<br>4=1-8-14<br>8)<br>C 32), 4=-532 (LC 29<br>2 33), 4=550 (LC 36)<br>pression/Maximum<br>206/209, 2-3=-270/31<br>(3-second gust)<br>DL=6.0psf; h=25ft; Cr<br>velope) exterior zone<br>ver left and right<br>ht exposed; C-C for<br>for reactions shown;<br>L=1.60<br>the plane of the trus<br>(normal to the face),<br>d Details as applicabl<br>mer as per ANSI/TPI<br>svent water ponding.<br>n chord bearing.<br>ne face or securely<br>(i.e. diagonal web).<br>a 10.0 psf bottom<br>h any other live load: | <ul> <li>8) * This truss<br/>on the botto<br/>3-06-00 tall<br/>chord and a</li> <li>9) All bearings<br/>capacity of<br/>10) Provide me-<br/>bearing plat<br/>joint 4 and 5</li> <li>11) This truss is<br/>Internationa<br/>referenced 3</li> <li>12) This truss to resi<br/>to 1-8-14 fo</li> <li>18 LOAD CASE(S)</li> <li>at.</li> <li>at.</li> <li>ss.</li> </ul> | has been designed<br>m chord in all area<br>by 2-00-00 wide w<br>ny other members<br>are assumed to be<br>405 psi.<br>chanical connection<br>e capable of withst<br>32 lb uplift at joint<br>designed in accor<br>I Building Code se-<br>standard ANSI/TPI<br>as been designed f<br>DOL=(1.33) Plate<br>st drag loads along<br>276.0 plf.<br>Standard | d for a liv<br>s where<br>ill fit betv<br>e HF No.<br>n (by oth<br>tanding 5<br>3.<br>rdance w<br>ction 230<br>1.<br>for a tota<br>grip DOL<br>g bottom | e load of 20.0<br>a rectangle<br>veen the botto<br>2 crushing<br>ers) of truss t<br>i32 lb uplift at<br>i4th the 2018<br>6.1 and<br>I drag load of<br>=(1.33) Coni<br>chord from 0- | opsf<br>om<br>276<br>nect<br>0-0 |                      |                             | a second s | THO OF WAR                     | G ZHAO<br>ISHINGING<br>TA<br>ERED<br>IL ENGING |  |

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)

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 BLD G   |
|---------|-------|----------------------|-----|-----|---------------------------------------|
| 3907862 | P08   | Flat Supported Gable | 2   | 1   | R81482256<br>Job Reference (optional) |

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Scale = 1:21.8

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

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ICE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. I is for an individual building component, not operly incorporate this design into the overall



| Job     | Truss | Truss Type           | Qty | Ply | MKM LEGACY EAST TOWN CROSSING BLD G   |
|---------|-------|----------------------|-----|-----|---------------------------------------|
| 3907862 | P09   | Flat Supported Gable | 2   | 1   | R81482257<br>Job Reference (optional) |

1-7-2

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

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Page: 1



1-7-2

Scale = 1:21.8 Ρ

| Plate Offsets (   | X, Y): [2:Edge,0-2-0],  | [3:0-2-8,0-1-0], [4:0-  | -2-8,0-0-8]  |   |   |  |                                |                      |                             |   |                                |   |
|---|---|---|--|---|---|--|--------------------------------|----------------------|-----------------------------|---|--------------------------------|---|
| Loading<br>TCLL (roof)<br>TCDL<br>BCLL<br>BCDL  | (psf)<br>25.0<br>15.0<br>0.0*<br>10.0   | <b>Spacing</b><br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code   | 2-0-0<br>1.15<br>1.15<br>NO<br>IBC2018/TPI2014   | CSI<br>TC<br>BC<br>WB<br>Matrix-R   | 0.41<br>0.35<br>0.00  | <b>DEFL</b><br>Vert(LL)<br>Vert(TL)<br>Horiz(TL)   | in<br>n/a<br>n/a<br>0.00       | (loc)<br>-<br>-<br>3 | l/defl<br>n/a<br>n/a<br>n/a | L/d<br>999<br>999<br>n/a  | PLATES<br>MT20<br>Weight: 7 lb | <b>GRIP</b><br>185/148<br>FT = 10%                |
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>BRACING<br>TOP CHORD<br>BOT CHORD<br>REACTIONS<br>FORCES<br>TOP CHORD<br>BOT CHORD<br>BOT CHORD<br>NOTES<br>1) Wind: AS(<br>Vasd=87n<br>II; Exp B;<br>and C-CC<br>exposed ;<br>members<br>Lumber D<br>2) Truss des<br>only. For<br>see Stand<br>or consult<br>3) Provide ad<br>4) Gable req<br>5) Truss to b<br>braced ag<br>6) Gable stuu<br>7) This truss<br>chord live | 2x4 HF No.2<br>2x4 HF No.2<br>2x4 HF No.2<br>2x4 HF No.2<br>Structural wood sheat<br>1-7-2 oc purlins, exc<br>Rigid ceiling directly<br>bracing.<br>(size) 3=1-7-2, 4<br>Max Horiz 4=-45 (LC<br>Max Uplift 3=-534 (LI<br>Max Grav 3=551 (LC<br>(lb) - Maximum Com<br>Tension<br>1-4=-300/272, 1-2=-<br>3-4=-223/203<br>CE 7-16; Vult=110mph<br>nph; TCDL=4.2psf; BC<br>Enclosed; MWFRS (en<br>Corner (3) zone; cantile<br>end vertical left and rig<br>and forces & MWFRS (en<br>Corner (3) zone; cantile<br>end vertical left and rig<br>corner (3) zone; cantile<br>end vertical left and rig<br>studs exposed to wind<br>ard Industry Gable End<br>qualified building desig<br>dequate drainage to pro-<br>uires continuous bottor<br>e fully sheathed from oc<br>ainst lateral movement<br>ds spaced at 2-0-0 oc.<br>has been designed for<br>load nonconcurrent with | athing directly applie<br>sept end verticals.<br>applied or 10-0-0 oc<br>3 =1-7-2<br>8)<br>C 32), 4=-534 (LC 2f<br>3 - 3, 4=551 (LC 36)<br>pression/Maximum<br>186/188, 2-3=-268/3<br>(3-second gust)<br>DL=6.0psf; h=25ft; C<br>velope) exterior zon<br>ver left and right<br>ght exposed; C-C for<br>for reactions shown;<br>L=1.60<br>the plane of the tru:<br>(normal to the face)<br>d Details as applicab<br>gner as per ANSI/TP<br>event water ponding<br>n chord bearing.<br>ne face or securely<br>(i.e. diagonal web).<br>a 10.0 psf bottom<br>th any other live load | <ul> <li>8) * This truss I on the botton 3-06-00 tall I chord and at 9) All bearings capacity of 4</li> <li>10) Provide met bearing platt joint 4 and 5</li> <li>11) This truss is International referenced s</li> <li>2) 12) This truss to resis to 1-7-2 for 2</li> <li>15 LOAD CASE(S)</li> </ul> | has been designed<br>in chord in all areas<br>by 2-00-00 wide will<br>by other members.<br>are assumed to be<br>05 psi.<br>thanical connection<br>a capable of withsta<br>34 lb uplift at joint 3<br>designed in accord<br>Building Code sect<br>tandard ANSI/TPI 1<br>as been designed fo<br>DOL=(1.33) Plate g<br>ti drag loads along<br>276.0 plf.<br>Standard | for a liv<br>where<br>fit betv<br>HF No.<br>(by oth<br>ance w<br>tion 230<br>I.<br>or a tota<br>rip DOL<br>bottom | e load of 20.0<br>a rectangle<br>veen the botto<br>2 crushing<br>ers) of truss to<br>34 lb uplift at<br>th the 2018<br>6.1 and<br>I drag load of<br>=(1.33) Conr<br>chord from 0-0 | psf<br>m<br>276<br>lect<br>D-0 |                      |                             | A STATE OF | HORESSION                      | IG ZH 40<br>ASHINGTON<br>THERED INST<br>AL ENGINE |

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UNAL D March 26,2024

| Job     | Truss | Truss Type   | Qty | Ply | MKM LEGACY EAST TOWN CROSSING BLD G   |
|---------|-------|--------------|-----|-----|---------------------------------------|
| 3907862 | P10   | Roof Special | 2   | 1   | R81482258<br>Job Reference (optional) |

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3x4 u

0-9-2

#### Scale = 1:25.6

|   |  |   |   | _  | _   |  |   |                      |                             |                          |                  |                                    |
|---|--|---|---|--|---|--|---|----------------------|-----------------------------|--------------------------|------------------|------------------------------------|
| Loading<br>TCLL (roof)<br>TCDL<br>BCLL<br>BCDI  | (psf)<br>25.0<br>15.0<br>0.0*<br>10.0  | Spacing<br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code  | 2-0-0<br>1.15<br>1.15<br>NO<br>IBC2018/TPI2014  | CSI<br>TC<br>BC<br>WB<br>Matrix-R  | 0.22<br>0.16<br>0.00  | <b>DEFL</b><br>Vert(LL)<br>Vert(TL)<br>Horiz(TL)   | in<br>n/a<br>n/a<br>0.00                        | (loc)<br>-<br>-<br>3 | l/defl<br>n/a<br>n/a<br>n/a | L/d<br>999<br>999<br>n/a | PLATES<br>MT20   | <b>GRIP</b><br>185/148<br>FT = 10% |
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>BRACING<br>TOP CHORD<br>BOT CHORD<br>FORCES<br>TOP CHORD<br>BOT CHORD                       | 2x4 HF No.2<br>2x4 HF No.2<br>2x4 HF No.2<br>2x4 HF No.2<br>Structural wood shea<br>0-9-2 oc purlins, exc<br>Rigid ceiling directly<br>bracing.<br>(size) 3=0-9-2, 4<br>Max Horiz 4=-45 (LC<br>Max Uplift 3=-587 (L<br>Max Grav 3=593 (LC<br>(Ib) - Maximum Com<br>Tension<br>1-4=-308/269, 1-2=-<br>3-4=-110/88 | athing directly applie<br>cept end verticals.<br>applied or 10-0-0 oc<br>4=0-9-2<br>: 30)<br>C 32), 4=-587 (LC 2<br>C 33), 4=593 (LC 36)<br>pression/Maximum<br>70/72, 2-3=-267/313                                     | <ul> <li>8) * This truss<br/>on the bott<br/>3-06-00 tal<br/>chord and</li> <li>9) All bearing<br/>capacity of<br/>10) Provide me<br/>bearing pla<br/>joint 4 and</li> <li>11) This truss i<br/>Internation</li> <li>9) 12) This truss 1</li> <li>9) 12) This truss to rest<br/>to 0-9-2 for</li> <li>8</li> <li>LOAD CASE(S</li> </ul> | has been design<br>om chord in all ar<br>by 2-00-00 wide<br>any other membes<br>s are assumed to<br>405 psi.<br>schanical connect<br>te capable of with<br>587 Ib uplift at joi<br>s designed in acc<br>al Building Code<br>standard ANS/IT<br>has been designe<br>DOL=(1.33) Plat<br>ist drag loads alc<br>276.0 plf. | ned for a liver<br>reas where<br>will fit betworks<br>ars.<br>be HF No.:<br>tion (by other<br>histanding 5<br>int 3.<br>cordance wir<br>section 230<br>PI 1.<br>ed for a tota<br>te grip DOL<br>ong bottom of | e load of 20.0<br>a rectangle<br>veen the bott<br>2 crushing<br>ers) of truss t<br>87 lb uplift at<br>th the 2018<br>6.1 and<br>I drag load o<br>=(1.33) Con<br>chord from 0 | 0psf<br>om<br>to<br>t<br>f 276<br>inect<br>-0-0 |                      |                             |                          |                  |                                    |
| NOTES<br>1) Wind: AS<br>Vasd=877<br>II; Exp B;<br>and C-C of<br>exposed<br>members<br>Lumber D<br>2) Truss de<br>only. For<br>see Stann | CE 7-16; Vult=110mph<br>mph; TCDL=4.2psf; BC<br>Enclosed; MWFRS (en<br>Corner (3) zone; cantile<br>; end vertical left and rig<br>and forces & MWFRS<br>OCL=1.60 plate grip DO<br>signed for wind loads ir<br>studs exposed to wind<br>lard Industry Gable En<br>currented building devices.                     | (3-second gust)<br>DL=6.0psf; h=25ft; C<br>welope) exterior zon<br>ver left and right<br>ght exposed;C-C for<br>for reactions shown;<br>L=1.60<br>the plane of the tru<br>(normal to the face)<br>d Details as applicat | Cat.<br>le<br>;<br>iss<br>),<br>ole,  |  |   |  |   |                      |                             | بو                       | HAOMIN<br>HAOMIN | IG ZHAO                            |

- lified building designer as per ANSI/TPI 1. Provide adequate drainage to prevent water ponding.
- 3) 4) Gable requires continuous bottom chord bearing.
- 5) Truss to be fully sheathed from one face or securely
- braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc. 6)
- This truss has been designed for a 10.0 psf bottom 7) chord live load nonconcurrent with any other live loads.

## ROTESSIONAL ENGINE March 20



| Job     | Truss | Truss Type   | Qty | Ply | MKM LEGACY EAST TOWN CROSSING BLD G   |
|---------|-------|--------------|-----|-----|---------------------------------------|
| 3907862 | P11   | Roof Special | 2   | 1   | R81482259<br>Job Reference (optional) |

Run: 8,63 S Nov 1 2023 Print: 8,630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 25 09:36:53 ID:rf?hxecwdSZ9ly?m24FkbFzZ1yS-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f







0-10-6

Scale - 1.27 5

| 00010 - 112110  |   |   |  |   |   |  |                          |                      |                             |                          |                                |                                    |
|---|---|---|--|---|---|--|--------------------------|----------------------|-----------------------------|--------------------------|--------------------------------|------------------------------------|
| Loading<br>TCLL (roof)<br>TCDL<br>BCLL<br>BCDL  | (psf)<br>25.0<br>15.0<br>0.0*<br>10.0   | Spacing<br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code  | 2-0-0<br>1.15<br>1.15<br>NO<br>IBC2018/TPI20   | CSI<br>TC<br>BC<br>WB<br>Matrix-R   | 0.24<br>0.18<br>0.00  | DEFL<br>Vert(LL)<br>Vert(TL)<br>Horiz(TL)  | in<br>n/a<br>n/a<br>0.00 | (loc)<br>-<br>-<br>3 | l/defl<br>n/a<br>n/a<br>n/a | L/d<br>999<br>999<br>n/a | PLATES<br>MT20<br>Weight: 6 lb | <b>GRIP</b><br>185/148<br>FT = 10% |
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>BRACING<br>TOP CHORD<br>BOT CHORD<br>REACTIONS  | 2x4 HF No.2<br>2x4 HF No.2<br>2x4 HF No.2<br>Structural wood she<br>0-10-6 oc purlins, e<br>Rigid ceiling directly<br>bracing.<br>(size) 3=0-10-6,<br>Max Horiz 4= 45 (C  | athing directly applie<br>xcept end verticals.<br>applied or 10-0-0 oc<br>4=0-10-6  | 8) * This<br>on th<br>3-06-<br>chore<br>9) All be<br>capa<br>10) Provi<br>beari<br>joint<br>11) This<br>Interi | truss has been design<br>e bottom chord in all ar<br>00 tall by 2-00-00 wide<br>and any other membe<br>arings are assumed to<br>city of 405 psi.<br>de mechanical connect<br>ng plate capable of with<br>4 and 572 lb uplift at joi<br>truss is designed in acc<br>national Building Code | ned for a liv<br>reas where<br>will fit betw<br>ers.<br>be HF No.<br>tion (by oth<br>hstanding 5<br>int 3.<br>cordance w<br>section 230 | e load of 20.1<br>a rectangle<br>veen the both<br>2 crushing<br>ers) of truss t<br>72 lb uplift at<br>ith the 2018<br>16.1 and | 0psf<br>om<br>to<br>t    |                      |                             |                          |                                |                                    |
| FORCES<br>TOP CHORD<br>BOT CHORD  | Max H012 4=-45 (LC<br>Max Uplift 3=-572 (L<br>Max Grav 3=579 (LC<br>(Ib) - Maximum Com<br>Tension<br>1-4=-305/270, 1-2=-<br>3-4=-124/103  | C 32), 4=-572 (LC 2<br>C 33), 4=579 (LC 36)<br>pression/Maximum<br>85/86, 2-3=-269/312  | 9) refero<br>12) This<br>plf. L<br>truss<br>to 0-<br>LOAD C  | Inced standard ANSI/T<br>russ has been designe<br>Jimber DOL=(1.33) Plat<br>to resist drag loads alc<br>0-6 for 276.0 plf.<br>ASE(S) Standard   | PI 1.<br>ed for a tota<br>te grip DOL<br>ong bottom   | l drag load o<br>=(1.33) Con<br>chord from 0   | f 276<br>inect<br>-0-0   |                      |                             |                          |                                |                                    |
| NOTES   |   |   |  |   |   |  |                          |                      |                             |                          |                                |                                    |
| <ol> <li>Wind: AS<br/>Vasd=87r<br/>II; Exp B;<br/>and C-C 0<br/>exposed ;<br/>members<br/>Lumber D</li> <li>Truss de<br/>only. For<br/>see Stand</li> </ol> | CE 7-16; Vult=110mph<br>mph; TCDL=4.2psf; BC<br>Enclosed; MWFRS (er<br>Corner (3) zone; cantile<br>; end vertical left and rig<br>and forces & MWFRS<br>00L=1.60 plate grip DC<br>signed for wind loads in<br>studs exposed to wind<br>dard Industry Gable En | (3-second gust)<br>DL=6.0psf; h=25ff; C<br>welope) exterior zon<br>wer left and right<br>ght exposed;C-C for<br>for reactions shown;<br>pL=1.60<br>n the plane of the tru<br>(normal to the face)<br>d Details as applicate | Cat.<br>e<br>ss<br>,   |   |   |  |                          |                      |                             |                          | ALAOMIN<br>ALAOMIN             | G ZHAO                             |

- or consult qualified building designer as per ANSI/TPI 1.
- 3) Provide adequate drainage to prevent water ponding. 4) Gable requires continuous bottom chord bearing.
- 5) Truss to be fully sheathed from one face or securely
- braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc. 6)
- This truss has been designed for a 10.0 psf bottom 7) chord live load nonconcurrent with any other live loads.

## BORESSIONAL ENGINE March 20

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 BLD G   |
|---------|-------|----------------------|-----|-----|---------------------------------------|
| 3907862 | P12   | Flat Supported Gable | 1   | 1   | R81482260<br>Job Reference (optional) |

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 25 09:36:53 ID:VmJW9ANRnpVDpdJtFptWfXzZ1xT-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



M18AHS 5x12 ॥

M18AHS 5x12 II

#### 1-10-6

Scale = 1:24.1

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

|  |                               | 1.1 0 /· 1/1                               | : 51                           |                       |                 |                 |      |       |        |     |              |           |
|--|-------------------------------|--|--------------------------------|-----------------------|-----------------|-----------------|------|-------|--------|-----|--------------|-----------|
| Loading  | (psf)                         | Spacing                                    | 2-0-0                          | CSI                   |                 | DEFL            | in   | (loc) | l/defl | L/d | PLATES       | GRIP      |
| TCLL (roof)                                    | 25.0                          | Plate Grip DOL                             | 1.15                           | тс                    | 0.47            | Vert(LL)        | n/a  | -     | n/a    | 999 | M18AHS       | 145/140   |
| TCDL   | 15.0                          | Lumber DOL                                 | 1.15                           | BC                    | 0.43            | Vert(TL)        | n/a  | -     | n/a    | 999 | MT20         | 185/148   |
| BCLL   | 0.0*                          | Rep Stress Incr                            | NO                             | WB                    | 0.00            | Horiz(TL)       | 0.00 | 3     | n/a    | n/a |              |           |
| BCDL   | 10.0                          | Code                                       | IBC2018/TPI2014                | Matrix-R              |                 |                 |      |       |        |     | Weight: 8 lb | FT = 10%  |
|  |                               |  |                                |                       |                 |                 |      |       |        |     |              |           |
| LUMBER   |                               |  | 9) * This truss                | s has been design     | ied for a liv   | e load of 20.0  | Opsf |       |        |     |              |           |
| TOP CHORD                                      | 2x4 HF No.2                   |  | on the bott                    | om chord in all are   | eas where       | a rectangle     |      |       |        |     |              |           |
| BOT CHORD                                      | 2x4 HF No.2                   |  | 3-06-00 tai                    | I by 2-00-00 wide     | WIII TIT DETV   | veen the botto  | m    |       |        |     |              |           |
| WEBS   | 2x4 HF No.2                   |  | 10) All booring                | any other member      | IS.<br>bo UE No | 2 cruching      |      |       |        |     |              |           |
| BRACING  | <b>.</b>                      |  | canacity of                    | 405 nsi               | DETIFINO.       | 2 crushing      |      |       |        |     |              |           |
| TOP CHORD                                      | Structural wood she           | athing directly applie                     | d or<br>11) Provide me         | chanical connecti     | ion (by oth     | ers) of truss t | 'n   |       |        |     |              |           |
|  | 1-10-6 oc purlins, e          | xcept end verticals.                       | bearing pla                    | te capable of with    | nstanding 5     | 28 lb uplift at |      |       |        |     |              |           |
| BUT CHURD                                      | higia celling alfectly        | applied of 9-10-10 C                       | joint 4 and                    | 528 lb uplift at joir | nt 3.           |                 |      |       |        |     |              |           |
| PEACTIONS                                      | (cizo) 2-1.10.6               | 4-1 10 6                                   | 12) This truss i               | s designed in acc     | ordance w       | ith the 2018    |      |       |        |     |              |           |
| REACTIONS                                      | (SIZE) $S=1-10-6$ ,           | 4=1-10-0                                   | Internation                    | al Building Code s    | section 230     | 6.1 and         |      |       |        |     |              |           |
|  | Max Holift 2 = 529 (          | (30)<br>(22) $A = 529 (1 C 2)$             | o) referenced                  | standard ANSI/TI      | PI 1.           |                 |      |       |        |     |              |           |
|  | Max Gray 3=548 (L             | C 32), 4=-520 (LC 2<br>C 33) 1-518 (LC 36) | <sup>3)</sup> 13) This truss h | has been designe      | d for a tota    | I drag load of  | 276  |       |        |     |              |           |
| FORCES   | (lb) Movimum Com              | 0 00), 4=040 (EO 00)                       | plf. Lumber                    | r DOL=(1.33) Plat     | e grip DOL      | .=(1.33) Con    | nect |       |        |     |              |           |
| FURCES   | (ID) - Maximum Com<br>Tension | ipression/waximum                          | truss to res                   | sist drag loads alo   | ng bottom       | cnora from 0-   | -0-0 |       |        |     |              |           |
| TOP CHORD                                      | 1-4=-301/275 1-2=-            | 224/227 2-3=-271/3                         |                                | Di 276.0 pil.         |                 |                 |      |       |        |     |              |           |
| BOT CHORD                                      | 3-4=-259/240                  |  | LUAD CASE(S                    | standard              |                 |                 |      |       |        |     |              |           |
| NOTES  |                               |  |                                |                       |                 |                 |      |       |        |     |              |           |
| 1) Wind AS                                     | CE 7-16: \/ult=110mph         | (3-second quet)                            |                                |                       |                 |                 |      |       |        |     |              |           |
| Vasd=87r                                       | mnh: TCDI =4 $2nsf$ : BC      | DI = 6  Onsf h = 25 ft C                   | .at                            |                       |                 |                 |      |       |        |     |              |           |
| II: Exp B:                                     | Enclosed: MWFRS (en           | velope) exterior zon                       | e                              |                       |                 |                 |      |       |        |     |              |           |
| and C-C (                                      | Corner (3) zone: cantile      | ever left and right                        |                                |                       |                 |                 |      |       |        |     |              |           |
| exposed ;                                      | end vertical left and rig     | ght exposed;C-C for                        |                                |                       |                 |                 |      |       |        |     |              |           |
| members  | and forces & MWFRS            | for reactions shown;                       |                                |                       |                 |                 |      |       |        |     |              |           |
| Lumber D                                       | OL=1.60 plate grip DO         | DL=1.60                                    |                                |                       |                 |                 |      |       |        |     | J OMIN       | G ZH      |
| <ol><li>Truss des</li></ol>                    | signed for wind loads ir      | n the plane of the tru                     | SS                             |                       |                 |                 |      |       |        |     | A W          | ASUNO     |
| only. For                                      | studs exposed to wind         | (normal to the face)                       | ,                              |                       |                 |                 |      |       |        |     | 1200         |           |
| see Stand                                      | dard Industry Gable En        | d Details as applicab                      | le,                            |                       |                 |                 |      |       |        | 7   |              |           |
| Or consult                                     | qualified building desig      | gner as per ANSI/TP                        | 11.                            |                       |                 |                 |      |       |        |     | 0            | And Z     |
| <ol> <li>All ploton</li> </ol>                 | ore MT20 plotes uplos         | event water ponding                        | 4                              |                       |                 |                 |      |       |        | 2   |              |           |
| <ul><li>All plates</li><li>Gable reg</li></ul> | are witzo plates unles        | s otherwise mulcated                       | 1.                             |                       |                 |                 |      |       |        |     |              |           |
| 6) Truss to h                                  | a fully sheathed from c       | ne face or securely                        |                                |                       |                 |                 |      |       |        | 2   |              | 1~5       |
| braced ac                                      | ainst lateral movement        | t (i.e. diagonal web)                      |                                |                       |                 |                 |      |       |        | 7   | P 8 540      | 174 0/8 5 |
| 7) Gable stu                                   | ds spaced at 2-0-0 oc.        | · (  |                                |                       |                 |                 |      |       |        |     | FREGIS       | TERE      |
| 8) This truss                                  | has been designed for         | r a 10.0 psf bottom                        |                                |                       |                 |                 |      |       |        |     | SSION        | TENU      |
| chord live                                     | load nonconcurrent wi         | th any other live load                     | ls.                            |                       |                 |                 |      |       |        |     | -ONA         |           |
|  |                               |  |                                |                       |                 |                 |      |       |        |     |              |           |
|  |                               |  |                                |                       |                 |                 |      |       |        |     | Marc         | h 26,2024 |

titute (www.tpinst.org) titute (www.tpinst.org) titute (www.tpinst.org)

| Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not<br>a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall<br>building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing |
|--|
| a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and bermanent bracing   |
| building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing  |
|  |
| is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the   |
| fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.   |
| and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)   |

| Job     | Truss | Truss Type           | Qty | Ply | MKM LEGACY EAST TOWN CROSSING BLD G   |
|---------|-------|----------------------|-----|-----|---------------------------------------|
| 3907862 | P13   | Flat Supported Gable | 22  | 1   | R81482261<br>Job Reference (optional) |

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 25 09:36:53  $ID:\_b1SmOd2XSTcgShgnyEgKFzZ1vs-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f$ 





M18AHS 5x12 ||

M18AHS 5x12 II

#### 1-10-6

Scale = 1:24.2

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

|  |                           |                               | , 6.1                             |                              |                     |                  |             |       |        |     |              |          |
|--|---------------------------|-------------------------------|-----------------------------------|------------------------------|---------------------|------------------|-------------|-------|--------|-----|--------------|----------|
| Loading                                    | (psf)                     | Spacing                       | 2-0-0                             | CSI                          |                     | DEFL             | in          | (loc) | l/defl | L/d | PLATES       | GRIP     |
| TCLL (roof)                                | 25.0                      | Plate Grip DOL                | 1.15                              | тс                           | 0.48                | Vert(LL)         | n/a         | -     | n/a    | 999 | M18AHS       | 145/140  |
| TCDL                                       | 15.0                      | Lumber DOL                    | 1.15                              | BC                           | 0.43                | Vert(TL)         | n/a         | -     | n/a    | 999 | MT20         | 185/148  |
| BCLL                                       | 0.0*                      | Rep Stress Incr               | NO                                | WB                           | 0.00                | Horiz(TL)        | 0.00        | 3     | n/a    | n/a |              |          |
| BCDL                                       | 10.0                      | Code                          | IBC2018/TPI2014                   | Matrix-R                     |                     |                  |             |       |        |     | Weight: 8 lb | FT = 10% |
|  |                           |                               |                                   |                              | -                   |                  |             |       |        |     |              |          |
| LUMBER                                     |                           |                               | <ol><li>9) * This truss</li></ol> | s has been desigr            | ned for a live      | e load of 20.0   | psf         |       |        |     |              |          |
| TOP CHORD                                  | 2x4 HF No.2               |                               | on the bott                       | om chord in all ar           | eas where           | a rectangle      |             |       |        |     |              |          |
| BOT CHORD                                  | 2x4 HF No.2               |                               | 3-06-00 tal                       | I by 2-00-00 wide            | will fit betw       | een the botto    | m           |       |        |     |              |          |
| WEBS                                       | 2x4 HF No.2               |                               | chord and                         | any other membe              | rs.                 |                  |             |       |        |     |              |          |
| BRACING                                    |                           |                               | 10) All bearing                   | s are assumed to             | be HF No.           | 2 crushing       |             |       |        |     |              |          |
| TOP CHORD                                  | Structural wood she       | athing directly applie        | d or capacity of                  | 405 psi.                     |                     |                  |             |       |        |     |              |          |
|  | 1-10-6 oc purlins, e      | xcept end verticals.          | 11) Provide me                    | echanical connect            | ion (by othe        | ers) of truss to | C           |       |        |     |              |          |
| BOT CHORD                                  | Rigid ceiling directly    | applied or 9-10-3 oc          | bearing pla                       | te capable of with           | nstanding 5         | 36 ID UPIIT AT   |             |       |        |     |              |          |
|  | bracing.                  |                               | Joint 4 and                       | 536 ID UPIIT at joi          | nt 3.<br>ordonoo wi | th the 2019      |             |       |        |     |              |          |
| REACTIONS                                  | (size) 3=1-10-6,          | 4=1-10-6                      | 12) This truss                    | al Building Code             | contiance wi        |                  |             |       |        |     |              |          |
|  | Max Horiz 4=-45 (LC       | 29)                           | referenced                        | al Building Code :           |                     | 0.1 anu          |             |       |        |     |              |          |
|  | Max Uplift 3=-536 (L      | C 32), 4=-536 (LC 29          | 9) 13) This trues                 | has been designe             | d for a tota        | I drag load of   | 276         |       |        |     |              |          |
|  | Max Grav 3=556 (LC        | C 33), 4=556 (LC 36)          | nlf Lumbe                         | r DOI = (1.33) Plat          | te arin DOI         | =(1.33) Conr     | 210<br>hect |       |        |     |              |          |
| FORCES                                     | (lb) - Maximum Com        | pression/Maximum              | truss to res                      | sist drag loads alo          | ng bottom           | chord from 0-    | 0-0         |       |        |     |              |          |
|  | Tension                   | 004/007 0 0 075/0             | to 1-10-6 f                       | or 276.0 plf.                |                     |                  |             |       |        |     |              |          |
| TOP CHORD                                  | 1-4=-305/278, 1-2=-       | 224/227, 2-3=-275/3           | 23 LOAD CASE(S                    | <ol> <li>Standard</li> </ol> |                     |                  |             |       |        |     |              |          |
| BOTCHORD                                   | 3-4=-260/241              |                               |                                   |                              |                     |                  |             |       |        |     |              |          |
| NOTES                                      |                           |                               |                                   |                              |                     |                  |             |       |        |     |              |          |
| <ol> <li>Wind: AS</li> </ol>               | CE 7-16; Vult=110mph      | (3-second gust)               |                                   |                              |                     |                  |             |       |        |     |              |          |
| Vasd=87n                                   | nph; TCDL=4.2psf; BC      | DL=6.0psf; h=25ft; C          | Cat.                              |                              |                     |                  |             |       |        |     |              |          |
| II; Exp B;                                 | Enclosed; MWFRS (en       | velope) exterior zon          | e                                 |                              |                     |                  |             |       |        |     |              |          |
| and C-C C                                  | Corner (3) zone; cantile  | ever left and right           |                                   |                              |                     |                  |             |       |        |     |              |          |
| exposed;                                   | end vertical left and rig | gnt exposed;C-C for           |                                   |                              |                     |                  |             |       |        |     |              |          |
| members                                    | and forces & MWERS        | for reactions shown;          |                                   |                              |                     |                  |             |       |        |     | MIN          | Ga       |
|  | OL=1.60 plate grip DO     | /L=1.00<br>                   |                                   |                              |                     |                  |             |       |        |     | AUM          | - CHA    |
| <ol> <li>ITUSS des<br/>only For</li> </ol> | signed for wind loads in  | (normal to the food)          | 55                                |                              |                     |                  |             |       |        |     | OF WA        | ASHD O   |
| Only. For                                  | lord Industry Coble En    | d Deteile ee epplieeb         | ,<br>                             |                              |                     |                  |             |       |        | -   | AN TO        | NON D    |
| or consult                                 | aualified building desir  | u Details as applicab         | 11                                |                              |                     |                  |             |       |        | -   | AN AN        |          |
| 3) Provide a                               | dequate drainage to pr    | event water ponding           |                                   |                              |                     |                  |             |       |        | -   | 5            |          |
| <ol> <li>All plates</li> </ol>             | are MT20 plates unless    | s otherwise indicated         |                                   |                              |                     |                  |             |       |        | 2   |              |          |
| 5) Gable reg                               | uires continuous hottor   | m chord bearing               | 4.                                |                              |                     |                  |             |       |        |     |              |          |
| 6) Truss to b                              | e fully sheathed from c   | one face or securely          |                                   |                              |                     |                  |             |       |        | 2.  |              |          |
| braced ad                                  | ainst lateral movement    | t (i.e. diagonal web)         |                                   |                              |                     |                  |             |       |        | 7   | P \$ 540     | 14 0 8 5 |
| <ol> <li>Gable stu</li> </ol>              | ds spaced at 2-0-0 oc     |                               |                                   |                              |                     |                  |             |       |        | -   | A CGIST      | TERD     |
| <ol> <li>This truss</li> </ol>             | has been designed for     | r a 10.0 psf bottom           |                                   |                              |                     |                  |             |       |        | 1   | SSIG         | ENGL     |
| chord live                                 | load nonconcurrent wi     | th any other live load        | ls.                               |                              |                     |                  |             |       |        |     | NA           | LU       |
|  |                           | ,, ,, , , , , , , , , , , , , | -                                 |                              |                     |                  |             |       |        |     |              |          |

March 26,2024

| Job     | Truss | Truss Type           | Qty | Ply | MKM LEGACY EAST TOWN CROSSING BLD G   |
|---------|-------|----------------------|-----|-----|---------------------------------------|
| 3907862 | P14   | Flat Supported Gable | 2   | 1   | R81482262<br>Job Reference (optional) |

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 25 09:36:53 ID:3H0OdzQR\_knFbckMepP8?AzZ1uq-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





Scale = 1:21.9

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

| Loading (psf)   | Spacing  | 2-0-0   | CSI  |  | DEFL  | in                | (loc) | l/defl | L/d                                   | PLATES        | GRIP  |
|---|--|---|--|--|---|-------------------|-------|--------|---------------------------------------|---------------|---|
| TCLL (roof) 25.0  | Plate Grip DOL   | 1.15  | TC (   | 0.38   | Vert(LL)  | n/a               | -     | n/a    | 999                                   | MT20          | 185/148   |
| TCDL 15.0   | Lumber DOL   | 1.15  | BC (   | 0.32   | Vert(TL)  | n/a               | -     | n/a    | 999                                   |               |   |
| 3CLL 0.0*   | Rep Stress Incr  | NO  | WB (   | 0.00   | Horiz(TL)   | 0.00              | 3     | n/a    | n/a                                   |               |   |
| 3CDL 10.0   | Code   | IBC2018/TPI2014   | Matrix-R   |  | . ,   |                   |       |        |                                       | Weight: 7 lb  | FT = 10%  |
| UMBER<br>OP CHORD 2x4 HF No.2<br>OT CHORD 2x4 HF No.2<br>OT CHORD 2x4 HF No.2<br>SRACING<br>OP CHORD Structural wood shea<br>1-5-4 oc purlins, exc<br>SOT CHORD Rigid ceiling directly<br>bracing.<br>REACTIONS (size) 3=1-5-4, 4<br>Max Horiz 4=-45 (LC<br>Max Uplift 3=-549 (LC<br>Max Grav 3=559 (LC<br>FORCES (lb) - Maximum Com  | athing directly applied<br>cept end verticals.<br>applied or 10-0-0 oc<br>l=1-5-4<br>:10)<br>C 32), 4=-544 (LC 25<br>C 33), 4=559 (LC 36)<br>pression/Maximum  | <ul> <li>8) * This truss<br/>on the botto<br/>3-06-00 tall<br/>chord and a</li> <li>9) All bearings<br/>d or</li> <li>10) Provide met<br/>bearing plat</li> <li>11) This truss is<br/>Internationa<br/>referenced s</li> <li>12) This truss h</li> <li>14) Plf. Lumber<br/>truss to resi</li> </ul> | has been designed for<br>m chord in all areas w<br>by 2-00-00 wide will fit<br>ny other members.<br>are assumed to be HF<br>405 psi.<br>chanical connection (b<br>e capable of withstand<br>designed in accordan<br>I Building Code section<br>standard ANSI/TPI 1.<br>as been designed for a<br>DOL=(1.33) Plate grip<br>st drag loads along bo | r a live<br>where a<br>t betw<br>F No.2<br>by othe<br>ding 5-<br>nce win<br>nce win<br>a total<br>b DOL:<br>bottom c | e load of 20.0p<br>a rectangle<br>een the botton<br>2 crushing<br>ers) of truss to<br>44 lb uplift at<br>th the 2018<br>6.1 and<br>drag load of 2<br>=(1.33) Conn<br>shord from 0-0 | 276<br>ect<br>0-0 |       |        |                                       | vveignt: 7 ib | F I = 10%   |
| Tension<br>OP CHORD 1-4=-303/275, 1-2=-   | 164/166. 2-3=-271/3 <sup>.</sup>   | to 1-5-4 for:   | 276.0 plf.   |  |   |                   |       |        |                                       |               |   |
| 30T CHORD 3-4=-203/182  |  | LUAD CASE(S)  | Standard   |  |   |                   |       |        |                                       |               |   |
| IOTES   |  |   |  |  |   |                   |       |        |                                       |               |   |
| <ul> <li>Wind: ASCE 7-16; Vult=110mph<br/>Vasd=87mph; TCDL=4.2psf; BCI</li> <li>II; Exp B; Enclosed; MWFRS (en<br/>and C-C Corner (3) zone; cantile<br/>exposed ; end vertical left and rig<br/>members and forces &amp; MWFRS</li> <li>Lumber DOL=1.60 plate grip DO</li> <li>Truss designed for wind loads in<br/>only. For studs exposed to wind<br/>see Standard Industry Gable End<br/>or consult qualified building desig</li> <li>Provide adequate drainage to pro-<br/>glable requires continuous bottor</li> <li>Truss to be fully sheathed from or<br/>braced against lateral movement</li> <li>Gable studs spaced at 2-0-0 oc.</li> <li>This truss has been designed for<br/>chord live load nonconcurrent with</li> </ul> | (3-second gust)<br>DL=6.0psf; h=25ft; C<br>velope) exterior zone<br>ver left and right<br>ght exposed;C-C for<br>for reactions shown;<br>L=1.60<br>the plane of the trus<br>(normal to the face),<br>d Details as applicab<br>gner as per ANSI/TP<br>event water ponding,<br>m chord bearing.<br>m chard bearing.<br>i.e. face or securely<br>: (i.e. diagonal web). | at.<br>ss<br>le,<br>1.  |  |  |   |                   |       |        | A A A A A A A A A A A A A A A A A A A | HOPESSION     | IG ZH40<br>ASHOVCIOL<br>ITA<br>TERED<br>AL ENGINE |

#### March 26,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)

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| Job     | Truss | Truss Type           | Qty | Ply | MKM LEGACY EAST TOWN CROSSING BLD G   |
|---------|-------|----------------------|-----|-----|---------------------------------------|
| 3907862 | P15   | Flat Supported Gable | 4   | 1   | R81482263<br>Job Reference (optional) |

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 25 09:36:53 ID:ICMejIJQjSVvPWp5A21QoGzZ1fU-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1 PRMU20240404





Scale - 1.22 4

| 00010 - 1.22.4  |  |   |  |  |   |   |                          |                      |                             |                          |                                |                                    |
|---|--|---|--|--|---|---|--------------------------|----------------------|-----------------------------|--------------------------|--------------------------------|------------------------------------|
| Loading<br>TCLL (roof)<br>TCDL<br>BCLL<br>BCDL  | (psf)<br>25.0<br>15.0<br>0.0*<br>10.0  | Spacing<br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code  | 2-0-0<br>1.15<br>1.15<br>NO<br>IBC2018/TPI2014   | CSI<br>TC<br>BC<br>WB<br>Matrix-R  | 0.40<br>0.07<br>0.00  | DEFL<br>Vert(LL)<br>Vert(TL)<br>Horiz(TL) | in<br>n/a<br>n/a<br>0.00 | (loc)<br>-<br>-<br>3 | l/defl<br>n/a<br>n/a<br>n/a | L/d<br>999<br>999<br>n/a | PLATES<br>MT20<br>Weight: 9 lb | <b>GRIP</b><br>185/148<br>FT = 10% |
| LUMBER<br>TOP CHORD 2x4 DF No.2<br>BOT CHORD 2x4 HF No.2<br>BOT CHORD 2x4 HF No.2<br>BRACING<br>TOP CHORD Structural wood sheathing directly applied or<br>1-10-6 oc purlins, except end verticals.<br>BOT CHORD Rigid ceiling directly applied or 10-0-0 oc<br>bracing.<br>REACTIONS (size) 3=1-10-6, 4=1-10-6<br>Max Horiz 4=-50 (LC 10)<br>Max Uplift 3=-71 (LC 9), 4=-71 (LC 8)<br>Max Grav 3=665 (LC 19), 4=654 (LC 1)<br>FORCES (lb) - Maximum Compression/Maximum<br>Tension<br>TOP CHORD 3-458/75 |  | 8) * This tr<br>on the b<br>3-06-00<br>chord a<br>9) All bear<br>capacity<br>10) Provide<br>bearing<br>4 and 7<br>11) This tru<br>Internat<br>reference<br>LOAD CAS<br>1) Dead<br>Plate I | uss has been design<br>ottom chord in all arr<br>tall by 2-00-00 wide<br>nd any other membe<br>ings are assumed to<br>y of 405 psi.<br>mechanical connect<br>plate capable of with<br>1 lb uplift at joint 3.<br>ss is designed in acc<br>ional Building Code s<br>bed standard ANSI/TI<br><b>E(S)</b> Standard<br>+ Roof Live (balanced<br>ncrease=1.15 | eed for a liv<br>eas where<br>will fit betw<br>rs.<br>be HF No.<br>ion (by oth<br>hstanding 7<br>ordance w<br>section 230<br>PI 1.<br>d): Lumber | e load of 20.0<br>a rectangle<br>reen the botto<br>2 crushing<br>ers) of truss t<br>1 lb uplift at j<br>th the 2018<br>6.1 and<br>Increase=1. | Dpsf<br>om<br>o<br>oint<br>15,            |                          |                      |                             |                          |                                |                                    |
| TOP CHORD<br>BOT CHORD<br>NOTES<br>1) Wind: ASI<br>Vasd=87r<br>II; Exp B;<br>and C-C (<br>exposed ;<br>members<br>Lumber D  | Tension<br>1-4=-639/370, 1-2=-<br>3-4=-58/75<br>CE 7-16; Vult=110mph<br>mph; TCDL=4.2psf; BC<br>Enclosed; MWFRS (er<br>Corner (3) zone; cantile<br>; end vertical left and ri-<br>and forces & MWFRS<br>JOL=1.60 plate grip DC | 33/23, 2-3=-639/370<br>(3-second gust)<br>iDL=6.0psf; h=25ft; C<br>ivelope) exterior zon<br>ver left and right<br>ght exposed;C-C for<br>for reactions shown;<br>bL=1.60                  | Cat.   | n Loads (lb/ft)<br>:: 1-2=-812, 3-4=-20  |   |   |                          |                      |                             |                          | معدي                           |                                    |
| <ol><li>Truss des<br/>only. For</li></ol>   | signed for wind loads in<br>studs exposed to wind  | n the plane of the tru<br>I (normal to the face)  | SS<br>,  |  |   |   |                          |                      |                             |                          | ALAOMIN                        | G ZHA                              |

- see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1. 3) Provide adequate drainage to prevent water ponding.
- 4) Gable requires continuous bottom chord bearing.
- 5) Truss to be fully sheathed from one face or securely
- braced against lateral movement (i.e. diagonal web). Gable studs spaced at 2-0-0 oc. 6)
- This truss has been designed for a 10.0 psf bottom 7) chord live load nonconcurrent with any other live loads.



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| Job     | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING BLD G   |
|---------|-------|------------|-----|-----|---------------------------------------|
| 3907862 | P16   | Flat       | 2   | 1   | R81482264<br>Job Reference (optional) |

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 25 09:36:53 ID:3fky8Eans0yQCIDZfSyMNczZ1gQ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





0-10-8 1-10-6 0-10-8 0-11-14

Scale = 1:29.3

| Plate Offsets (2  | X, Y): [2:Ed  | lge,0-3-8],  | [3:Edge,0-3-8]   |   |   |   |  |   |                                      |                          |                               |                          |                                |                                    |
|---|---|--|--|---|---|---|--|---|--------------------------------------|--------------------------|-------------------------------|--------------------------|--------------------------------|------------------------------------|
| Loading<br>TCLL (roof)<br>TCDL<br>BCLL<br>BCDL  |   | (psf)<br>25.0<br>15.0<br>0.0*<br>10.0                | Spacing<br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code   | 2-0-0<br>1.15<br>1.15<br>NO<br>IBC2018  | J/TPI2014   | CSI<br>TC<br>BC<br>WB<br>Matrix-R   | 0.36<br>0.25<br>0.00   | DEFL<br>Vert(LL)<br>Vert(CT)<br>Horz(CT)  | in<br>0.00<br>0.00<br>0.00           | (loc)<br>3-4<br>3-4<br>3 | l/defl<br>>999<br>>999<br>n/a | L/d<br>240<br>180<br>n/a | PLATES<br>MT20<br>Weight: 9 lb | <b>GRIP</b><br>185/148<br>FT = 10% |
| LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>BRACING<br>TOP CHORD<br>BOT CHORD<br>REACTIONS  | 2x4 DF No<br>2x4 HF No<br>2x4 HF No<br>Structural<br>1-10-6 oc<br>Rigid ceilir<br>bracing.<br>(size)<br>Max Horiz<br>Max Uplift<br>Max Grav | 0.2<br>0.2<br>0.2<br>0.2<br>0.2<br>0.2<br>0.2<br>0.2 | athing directly applied<br>xcept end verticals.<br>applied or 6-0-0 oc<br>4=0-3-8, 5= Mechanio<br>35)<br>C 32), 4=-122 (LC 1)<br>C 29)<br>C 19), 4=79 (LC 29), | 7)<br>8)<br>9)<br>cal <b>LO</b><br>, 1) | Provide mec<br>bearing plate<br>joint 5, 261 lt<br>This truss is<br>International<br>referenced s<br>This truss ha<br>plf. Lumber I<br>truss to resis<br>to 1-10-6 for<br><b>AD CASE(S)</b><br>Dead + Roo<br>Plate Increas<br>Uniform Lo:<br>Vert: 1-2: | hanical connection<br>e capable of withsto<br>o uplift at joint 3 and<br>designed in accord<br>Building Code sect<br>tandard ANSI/TPI<br>is been designed f<br>DOL=(1.33) Plate of<br>totag loads along<br>100.0 plf.<br>Standard<br>of Live (balanced):<br>ase=1.15<br>ads (lb/ft)<br>==812, 3-5=-20 | n (by oth<br>anding 3<br>nd 122 lb<br>dance w<br>ction 230<br>1.<br>for a tota<br>grip DOL<br>bottom | ers) of truss t<br>125 lb uplift at<br>uplift at joint<br>ith the 2018<br>16.1 and<br>I drag load of<br>=(1.33) Coni<br>chord from 0-<br>Increase=1.4 | 0<br>4.<br>100<br>nect<br>0-0<br>15, |                          |                               |                          |                                |                                    |
| 5=731 (LC 1)<br>Vert: 1-2=-812, 3-5=-20<br>CORCES (b) - Maximum Compression/Maximum<br>Tension<br>Tension<br>TOP CHORD 1-5=-638/421, 1-2=-125/117, 2-3=-639/466<br>30T CHORD 4-5=-153/138, 3-4=-146/132<br>VOTES<br>I) Wind: ASCE 7-16; Vult=110mph (3-second gust)<br>Vasd=87mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat.<br>II; Exp B; Enclosed; MWFRS (envelope) exterior zone<br>and C-C Corner (3) zone; cantilever left and right<br>exposed ; end vertical left and right<br>exposed ; end vertical left and right exposed; C-C for<br>members and forces & MWFRS for reactions shown;<br>Lumber DOL=1.60 plate grip DOL=1.60<br>Provide adequate drainage to prevent water ponding.<br>3) This truss has been designed for a 10.0 psf bottom<br>chord live load nonconcurrent with any other live loads.<br>4) * This truss has been designed for a live load of 20.0psf<br>on the bottom chord in all areas where a rectangle |   |  |  |   |   |   |  |   |                                      |                          |                               |                          |                                |                                    |
| <ul><li>5) All bearing capacity of</li><li>6) Refer to gi</li></ul>   | any other m<br>as are assum<br>f 405 psi.<br>irder(s) for tri   | uss to trus  | IF No.2 crushing   |   |   |   |  |   |                                      |                          |                               | 3                        | AOFESSIONA<br>March            | TA<br>ERED LINGT                   |



| Job     | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING BLD G   |
|---------|-------|------------|-----|-----|---------------------------------------|
| 3907862 | P17   | Flat       | 6   | 1   | R81482265<br>Job Reference (optional) |

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 25 09:36:54 ID:Z4Y1U7xLhrK5NAv5djc9lKzZ1ql-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?ff





M18AHS 3x10 II



M18AHS 3x10 🛛

M18AHS 3x10 II

1-10-8

Scale = 1:27.4

-

| Loading<br>TCLL (roof)<br>TCDL<br>BCLL<br>BCDL   | (psf)<br>25.0<br>15.0<br>0.0<br>10.0  | Spacing<br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code  | 2-0-0<br>1.15<br>1.15<br>NO<br>IBC2018/TPI2014  | CSI<br>TC<br>BC<br>WB<br>Matrix-R   | 0.41<br>0.20<br>0.00  | DEFL<br>Vert(LL)<br>Vert(CT)<br>Horz(CT)  | in<br>0.00<br>0.00<br>0.00 | (loc)<br>3-4<br>3-4<br>3 | l/defl<br>>999<br>>999<br>n/a | L/d<br>240<br>180<br>n/a | PLATES<br>M18AHS<br>Weight: 9 lb | <b>GRIP</b><br>145/140<br>FT = 10% |
|--|---|---|---|---|---|---|----------------------------|--------------------------|-------------------------------|--------------------------|----------------------------------|------------------------------------|
| BCDL<br>LUMBER<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>BRACING<br>TOP CHORD<br>BOT CHORD<br>BOT CHORD<br>REACTIONS<br>FORCES<br>TOP CHORD<br>BOT CHORD<br>NOTES<br>1) Wind: ASC<br>Vasd=87m<br>II; Exp B; I<br>and C-C C<br>exposed ;<br>members a<br>Lumber DU<br>2) Provide ac<br>3) This truss<br>chord live | 2x4 DF No.2<br>2x4 HF No.2<br>2x4 HF No.2<br>2x4 HF No.2<br>2x4 HF No.2<br>Structural wood si<br>1-10-8 oc purlins,<br>Rigid ceiling direc<br>bracing.<br>(size) 3= Mec<br>Max Uplift 3=-275<br>Max Grav 3=669<br>(lb) - Maximum Co<br>Tension<br>1-4=-643/422, 1-2<br>3-4=-134/117<br>CE 7-16; Vult=110m<br>nph; TCDL=4.2psf; E<br>Enclosed; MWFRS (<br>Corner (3) zone; can<br>end vertical left and<br>and forces & MWFR<br>OL=1.60 plate grip D<br>dequate drainage to<br>has been designed<br>load nonconcurrent | Code<br>heathing directly applie<br>except end verticals.<br>ly applied or 10-0-0 oc<br>hanical, 4= Mechanical<br>C 35)<br>(LC 32), 4=-275 (LC 29<br>LC 19), 4=659 (LC 1)<br>mpression/Maximum<br>=-104/99, 2-3=-643/47<br>bh (3-second gust)<br>CDL=6.0psf; h=25ft; C<br>envelope) exterior zon-<br>ilever left and right<br>right exposed; C-C for<br>S for reactions shown;<br>OL=1.60<br>prevent water ponding<br>for a 10.0 psf bottom<br>with any other live loac | BC2018/TPI2014<br>8) This truss<br>Internation<br>referenced<br>9) This truss<br>plf. Lumbe<br>truss to re<br>to 1-10-8 f<br><b>LOAD CASE(</b> :<br>1) Dead + F<br>I Plate Inc<br>Uniform I<br>9) Vert: 1<br>3<br>Cat.<br>e | Matrix-R<br>is designed in accor<br>al Building Code se<br>I standard ANSI/TPI<br>has been designed<br>r DOL=(1.33) Plate<br>sist drag loads along<br>or 100.0 plf.<br>S) Standard<br>toof Live (balanced)<br>rease=1.15<br>.oads (lb/ft)<br>-2=-812, 3-4=-20 | rdance w<br>ction 23(<br>1.<br>for a tota<br>grip DOL<br>g bottom<br>: Lumber | ith the 2018<br>6.1 and<br>I drag load of<br>=(1.33) Con<br>chord from 0-<br>Increase=1.1 | 100<br>nect<br>-0-0        |                          |                               |                          | Weight: 9 lb                     | G 2H40                             |
| <ul> <li>4) * This trus:<br/>on the bott<br/>3-06-00 ta<br/>chord and</li> <li>5) All bearing<br/>capacity of</li> <li>6) Refer to gi</li> <li>7) Provide m<br/>bearing pla<br/>joint 4 and</li> </ul>   | s has been designe<br>tom chord in all area<br>Il by 2-00-00 wide w<br>any other members<br>is are assumed to b<br>f 405 psi.<br>irder(s) for truss to ti<br>echanical connectio<br>ate capable of withs<br>I 275 lb uplift at joint  | If for a live load of 20.0<br>s where a rectangle<br>Ill fit between the botto<br>e HF No.2 crushing<br>uss connections.<br>n (by others) of truss to<br>anding 275 lb uplift at<br>3.  | psf<br>m  |   |   |   |                            |                          |                               |                          | THOMESSIONA                      | 74<br>EEEED INGT                   |

March 26,2024



| Job     | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING BLD G   |
|---------|-------|------------|-----|-----|---------------------------------------|
| 3907862 | P18   | Flat       | 2   | 1   | R81482266<br>Job Reference (optional) |

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 25 09:36:54 ID: PpyZUV1 whu9 yhDijyn7aVvzZ1h8-RfC? PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ff



March 26,2024

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3x4 u 3x4 u

1-5-4

Scale = 1:22.7

| Loading (psr) Spacing 2-0-0 [CSI   DEFL In (IOC) I/defi L/d   PLATES   | GRIP  |
|--|---|
| TCLL (roof)         25.0         Plate Grip DOL         1.15         TC         0.24         Vert(LL)         0.00         3-4         >999         240         MT20 | 185/148   |
| TCDL         15.0         Lumber DOL         1.15         BC         0.16         Vert(CT)         0.00         3-4         >999         180                         |   |
| BCLL 0.0* Rep Stress Incr NO WB 0.00 Horz(CT) 0.00 3 n/a n/a   | FT 4004   |
| BCDL 10.0 Code IBC2018/1PI2014 Matrix-R Weight: 7 lb   | FI = 10%  |
| LUMBER<br>100 C 1000 2x4 HF No.2       100 C 1000 1000 1000 1000 1000 1000 100   | ING ZHIAO<br>WASTING<br>4074<br>STERED INST<br>NAL ENGINE |

| Job     | Truss | Truss Type | Qty | Ply | MKM LEGACY EAST TOWN CROSSING BLD G   |
|---------|-------|------------|-----|-----|---------------------------------------|
| 3907862 | P19   | Flat       | 10  | 1   | R81482267<br>Job Reference (optional) |

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 25 09:36:54 ID:g1dYI3\_yWUIw5wAW57WPx4zZ?uH-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





M18AHS 3x10 II



M18AHS 3x10 II

M18AHS 3x10 II



Scale = 1:28.8

| Loading  | (psf)                              | Spacing                 | 2-0-0                        | CSI                  |              | DEFL            | in   | (loc) | l/defl | L/d | PLATES       | GRIP     |
|--|------------------------------------|-------------------------|------------------------------|----------------------|--------------|-----------------|------|-------|--------|-----|--------------|----------|
| TCLL (roof)  | 25.0                               | Plate Grip DOL          | 1.15                         | TC                   | 0.29         | Vert(LL)        | 0.00 | 3-4   | >999   | 240 | M18AHS       | 145/140  |
| TCDL   | 15.0                               | Lumber DOL              | 1.15                         | BC                   | 0.24         | Vert(CT)        | 0.00 | 3-4   | >999   | 180 |              |          |
| BCLL   | 0.0*                               | Rep Stress Incr         | NO                           | WB                   | 0.00         | Horz(CT)        | 0.00 | 3     | n/a    | n/a |              |          |
| BCDL   | 10.0                               | Code                    | IBC2018/TPI2014              | Matrix-R             |              |                 |      |       |        |     | Weight: 9 lb | FT = 10% |
| LUMBER   |                                    |                         | 8) This truss                | is designed in acco  | ordance w    | ith the 2018    |      |       | -      |     |              |          |
| TOP CHORD  | 2x4 HF No.2                        |                         | Internation                  | nal Building Code s  | ection 230   | 06.1 and        |      |       |        |     |              |          |
| BOT CHORD  | 2x4 HF No.2                        |                         | reference                    | d standard ANSI/TF   | 기 1.         |                 |      |       |        |     |              |          |
| WEBS   | 2x4 HF No.2                        |                         | <ol><li>This truss</li></ol> | has been designed    | d for a tota | al drag load of | 100  |       |        |     |              |          |
| BRACING  |                                    |                         | plf. Lumbe                   | er DOL=(1.33) Plate  | e grip DOL   | .=(1.33) Con    | nect |       |        |     |              |          |
| TOP CHORD  | Structural wood she                | athing directly applie  | d or truss to re             | sist drag loads alor | ng bottom    | chord from 0-   | -0-0 |       |        |     |              |          |
|  | 1-10-6 oc purlins. e               | xcept end verticals.    | to 1-10-6                    | for 100.0 plf.       |              |                 |      |       |        |     |              |          |
| BOT CHORD  | Rigid ceiling directly<br>bracing. | applied or 10-0-0 oc    | ; LOAD CASE(                 | S) Standard          |              |                 |      |       |        |     |              |          |
| REACTIONS  | (size) 3= Mecha                    | anical. 4= Mechanica    | 1                            |                      |              |                 |      |       |        |     |              |          |
|  | Max Horiz 4=59 (LC                 | 11)                     |                              |                      |              |                 |      |       |        |     |              |          |
|  | Max Uplift 3=-290 (L               | .C 32), 4=-290 (LC 2)   | 9)                           |                      |              |                 |      |       |        |     |              |          |
|  | Max Grav 3=310 (LC                 | C 33), 4=310 (LC 36)    | )                            |                      |              |                 |      |       |        |     |              |          |
| FORCES   | (lb) - Maximum Com                 | pression/Maximum        |                              |                      |              |                 |      |       |        |     |              |          |
|  |                                    | 07/06 2 2 447/202       |                              |                      |              |                 |      |       |        |     |              |          |
| POT CHORD  | 1-4=-185/152, 1-2=-                | 87/80, 2-3=-147/203     |                              |                      |              |                 |      |       |        |     |              |          |
| BOTCHORD   | 3-4=-133/110                       |                         |                              |                      |              |                 |      |       |        |     |              |          |
| NOTES  | 0= = 40 \ 4 4 4 4                  | ( <b>0</b>   1)         |                              |                      |              |                 |      |       |        |     |              |          |
| 1) Wind: AS  | CE 7-16; Vult=110mph               | (3-second gust)         | <b>N</b> =4                  |                      |              |                 |      |       |        |     |              |          |
| Vasd=87r   | The second MWERS (or               | DL=6.0pst; n=25π; C     | Jat.                         |                      |              |                 |      |       |        |     |              |          |
| II, EXP D,   | Corper (3) zone: cantile           | wer left and right      | e                            |                      |              |                 |      |       |        |     |              |          |
| exposed .  | end vertical left and rid          | aht exposed C-C for     |                              |                      |              |                 |      |       |        |     |              |          |
| members  | and forces & MWFRS                 | for reactions shown:    |                              |                      |              |                 |      |       |        |     |              |          |
| Lumber D   | OL=1.60 plate grip DO              | 0L=1.60                 |                              |                      |              |                 |      |       |        |     |              |          |
| 2) Provide a   | dequate drainage to pr             | event water ponding     |                              |                      |              |                 |      |       |        |     | OMIN         | Gz       |
| 3) This truss  | has been designed for              | r a 10.0 psf bottom     |                              |                      |              |                 |      |       |        |     | TAUM         | - LHA    |
| chord live   | load nonconcurrent wi              | th any other live load  | ds.                          |                      |              |                 |      |       |        |     | T F WA       | SHID     |
| 4) * This trus   | ss has been designed f             | or a live load of 20.0  | psf                          |                      |              |                 |      |       |        | -   | Re Day       |          |
| on the bo  | ttom chord in all areas            | where a rectangle       |                              |                      |              |                 |      |       |        | -   | 12 A         | 2 O) 🕨   |
| 3-06-00 tall by 2-00-00 wide will fit between the bottom |                                    |                         |                              |                      |              |                 |      |       | -      | 2   |              |          |
| chord and any other members.                             |                                    |                         |                              |                      |              |                 |      |       |        |     |              |          |
| 5) All bearings are assumed to be HF No.2 crushing       |                                    |                         |                              |                      |              |                 |      |       |        |     | A AN         |          |
| capacity o   | ot 405 psi.                        |                         |                              |                      |              |                 |      |       |        |     | 2 540        | TA ISA   |
| <ul> <li>b) Refer to g</li> </ul>                        | proer(s) for truss to trus         | ss connections.         |                              |                      |              |                 |      |       |        |     | TO PA 340    | The last |
| <ol> <li>Provide m</li> </ol>                            | lete enable of with the            | (by others) of truss to | J                            |                      |              |                 |      |       |        | -   | PR UIST      | English  |
| bearing p  | ale capable of withstar            | nuing 290 ib uplift at  |                              |                      |              |                 |      |       |        |     | SIONA        | LEN      |
| joint 4 and  | a 290 ib upilit at joint 3.        |                         |                              |                      |              |                 |      |       |        |     | -OIVF        |          |

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



-----March 26,2024



# 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.
- 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.
- 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.
- 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.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- 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.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- 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.
- Do not cut or alter truss member or plate without prior approval of an engineer.
- 17. Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- 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.