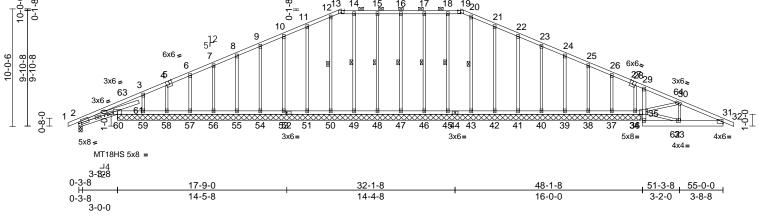


RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 05/08/2023

| RE: P230180-01 - Roof - Osage Lot 55 Site Information: Project Customer: Clover & Hive Project Name: Twin Cobalt Lot/Block: 55 Subdivision: Osage Model: Address: 2139/2141 SW Osage Dr City: Lee's Summit Single refine Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions): Design Cotto: RC2018/TP12014 Wind Code: ASCE 7-16 Wind Speed: 115 mph Roof Load: 45.0 paf Mean Roof Height (feet): 35 State: MO Sealt/ Mean Roof Height (feet): 35 No. Sealt/ 157758176 V11 157758176 V12 157758176 V12 157758176 V13 157758176 V12 157758176 V13 157758176 V13 147423 157758187 V23 147423 157758187 V13 147423 157758187 V23 147423 157758187 V13 147423 157758187 V13 147423 157758187 V13 147423 157758187 V13 147423 157758187 V13 147423 157758187 V13 147423 157758187 V13 147423 157758187 V13 147423 157758187 V13 147423 157758187 V23 14742 | | |
|--|--|--|
| No. Seal# Truss Name Date No. Seal# Truss Name Date 1 57758142 A1 4/14/23 35 157758176 V12 4/14/23 2 157758143 A3 4/14/23 35 157758177 V13 4/14/23 3 157758145 A4 4/14/23 33 157758177 V13 4/14/23 4 157758146 A6 4/14/23 33 157758180 V16 4/14/23 6 157758143 A7 4/14/23 40 157758180 V17 4/14/23 7 157758143 A7 4/14/23 41 157758180 V11 4/14/23 8 157758150 1 4/14/23 44 157758186 4/14/23 1 157758153 1 4/14/23 44 157758186 4/14/23 1 157758163 11 4/14/23 4/14/23 4/14/23 1 157758163 12 4/14/23 4/14/23 12 157758163 13 4/14/23 4/14/23 | Site Information:Project Customer: Clover & HiveLot/Block: 55SubdivisionModel:Address: 2139/2141 SW Osage DrCity: Lee's SummitCity: Lee's SummitState: MOGeneral Truss Engineering Criteria & Design Loads (Drawings Show Special Loading Conditions):Design Code: IRC2018/TPI2014Wind Code: ASCE 7-16Wind Speed: 115 mphRoof Load: 45.0 psf | 16023 Swingley Ridge Rd Cobalt Chesterfield, MO 63017 Osage 314-434-1200 ndividual Truss Design esign Program: MiTek 20/20 8.6 esign Method: MWFRS (Envelope)/C-C hybrid Wind ASCE 7-16 loor Load: N/A psf |
| MiTek USA, Inc. under my direct supervision based on the parameters provided by Premier Building Supply (Springhill, KS)20300 W 207th Street. Truss Design Engineer's Name: Sevier, Scott My license renewal date for the state of Missouri is December 31, 2023. 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. April 14,2023 | No.Seal#Truss NameDateNo.Seal#1157758142A1 $4/14/23$ 351577581762157758143A2 $4/14/23$ 361577581763157758144A3 $4/14/23$ 371577581784157758145A4 $4/14/23$ 381577581785157758146A5 $4/14/23$ 391577581806157758147A6 $4/14/23$ 401577581817157758148A7 $4/14/23$ 411577581818157758149C1 $4/14/23$ 411577581839157758150C2 $4/14/23$ 4315775818410157758151C3 $4/14/23$ 4415775818511157758152CJ1 $4/14/23$ 4515775818612157758153D1 $4/14/23$ 4615775818613157758154D2 $4/14/23$ 4615775818713157758157E3 $4/14/23$ 4615775818714157758158E5 $4/14/23$ 4615775818715157758161J3 $4/14/23$ 4615775818720157758161J3 $4/14/23$ 474721157758162PB1 $4/14/23$ 4722157758163PB2 $4/14/23$ 4723157758167V3 $4/14/23$ 24157758167V3 $4/14/23$ 25157758167 <t< td=""><td>Truss Name Date V12 4/14/23 V13 4/14/23 V14 4/14/23 V15 4/14/23 V16 4/14/23 V17 4/14/23</td></t<> | Truss Name Date V12 4/14/23 V13 4/14/23 V14 4/14/23 V15 4/14/23 V16 4/14/23 V17 4/14/23 |
| 1 of 1 Sevier Scott | MiTek USA, Inc. under my direct supervision based on the p provided by Premier Building Supply (Springhill, KS)20300 Truss Design Engineer's Name: Sevier, Scott My license renewal date for the state of Missouri is Decembe IMPORTANT NOTE: The seal on these truss component designs is that the engineer named is licensed in the jurisdiction(s) identified and that designs comply with ANSI/TPI 1. These designs are based upon parameter shown (e.g., loads, supports, dimensions, shapes and design codes), which given to MiTek or TRENCO. Any project specific information included is for TRENCO's customers file reference purpose only, and was not taken into a preparation of these designs. MiTek or TRENCO has not independently we applicability of the design parameters or the designs for any particular build the building designer should verify applicability of design parameters and p incorporate these designs into the overall building design per ANSI/TPI 1, C | V 207th Street. 31, 2023. a certification he rs were MiTek's or cocount in the ified the ng. Before use, operly banter 2 |

Sevier, Scott

| | | | | | | RELEASE FOR CONSTRUCTION |
|------------------------------------|---------------------------------|---|-----------------------|-----------------------------|--|---|
| Job | Truss | Truss Type | Qty | Ply | Roof - Osage Lot 55 | AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 157758142 |
| P230180-01 | A1 | Piggyback Base Supported Gable | 2 | 1 | Job Reference (optional | |
| Premier Building Supply (| (Springhill, KS), Spring Hills, | | | | 19 2022 MiTek Industries, Inc. ??PsB70Hq3NSgPqnL8w3uITX | |
| | | | | | | |
| -0-11- - 0-11- | | | <u>2-7-3</u>)-2-6 | | <u> </u> | 51-3-8 55-11-0 48-3-4 55-0-0 |
| 7 . 9 9 9 9 | | 3x6= $5^{\circ}=$ 12 ¹³ 14 15 $5^{\circ}=$ 12 ¹³ 15 12 ¹³ 15 $5^{\circ}=$ 12 ¹³ 15 $5^{\circ}=$ 12 ¹³ 15 12 ¹³ 15 $5^{\circ}=$ 12 ¹³ 15 $5^{\circ}=$ 12 ¹³ 15 12 ¹³ 15 $5^{\circ}=$ 12 ¹³ | 16 17 | 3x6= 18 19 ₂₀ | ~ | 3-0-4 |



Scale = 1:98.4

| Plate Offsets (| Plate Offsets (X, Y): [2:0-2-12,0-1-12], [2:2-6-12,0-1-8], [5:0-2-12,Edge], [13:0-3-0,Edge], [19:0-3-0,Edge], [27:0-2-12,Edge], [35:0-2-12,Edge], [52:0-1-8,0-1-8] | | | | | | | | | | | | |
|---|--|--|---|--|----------------------------------|--|--|---|-------------------------------|---------------------------------------|--|--|---|
| Loading TCLL (roof) TCDL BCLL BCDL | 2 | (psf) 25.0 10.0 0.0 10.0 | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code | 1-11-4 1.15 1.15 NO IRC2018/TPI2014 | CSI TC BC WB Matrix- | 0.90 0.93 0.29 SH | DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL) | in 0.07 -0.66 0.11 0.69 | (loc) 61 31 36 31 | l/defl >917 >136 n/a >131 | 90 n/a | PLATES MT18HS MT20 Weight: 295 lb | GRIP 244/190 244/190 FT = 20% |
| LUMBER TOP CHORD BOT CHORD WEBS SLIDER BRACING TOP CHORD BOT CHORD | 2x4 SP No.2 * 2x3 SPF No.2 2x3 SPF No.2 Left 2x4 SP N Sheathed or 4 2-0-0 oc purlin | 2 4-4-4 o ns (6-2 directly cept: cing: 39 ing: 59 ing: 58 icing: 5 acing: 3 ing: 37 icing: 35 pt | c purlins, except -4 max.): 13-19. applied or 6-0-0 oc 4-35 -60 -59 7-58 38-39 -38 6-37 -36. 16-47, 17-46, 18-45, 20-43, 15-48, 14-49, | | | $\begin{array}{c} 2=-136 \ (LC \ 26),\\ 37=-226 \ (LC \ 26),\\ 39=-44 \ (LC \ 13),\\ 41=-49 \ (LC \ 13),\\ 43=-55 \ (LC \ 9),\\ 46=-42 \ (LC \ 8),\\ 446=-42 \ (LC \ 8),\\ 448=-42 \ (LC \ 8),\\ 448=-42 \ (LC \ 8),\\ 53=-49 \ (LC \ 12),\\ 55=-75 \ (LC \ 2),\\ 57=-53 \ (LC \ 12),\\ 59=-103 \ (LC \ 12),\\ 59=-103 \ (LC \ 12),\\ 2=165 \ (LC \ 25),\\ 37=106 \ (LC \ 9),\\ 39=151 \ (LC \ 1),\\ 41=176 \ (LC \ 1),\\ 43=482 \ (LC \ 1),\\ 46=156 \ (LC \ 25),\\ 48=154 \ (LC \ 25),\\ 48=154 \ (LC \ 25),\\ 53=177 \ (LC \ 1),\\ 55=175 \ (LC \ 25),\\ \end{array}$ | I, 38=-71 (LC 40=-51 (LC 5=-52 (LC 9 5=-52 (LC 9 9=-51 (LC 9 9=-51 (LC 9 9=-51 (LC 9 1=-57 (LC 1 56=-49 (LC 56=-49 (LC 56=-49 (LC 56=-721 (LC 38=273 (LC 40=180 (LC 47=185 (LC 49=348 (LC 49=348 (LC 54=175 (LC | C (13), (13), (13), (13), (13), (13), (13), (13), (13), (12), | TOP CI | HORD | 4-6=-' 7-8=-' 9-10= 11-12 19-20 21-22 23-24 25-26 28-29 30-31 14-15 16-17 | 1214/1081, 6-7=- 1131/1077, 8-9=- -1049/1076, 10-1 978/1090, 12-1 978/1090, 12-1 108/1075, 22- 1091/1077, 24 1187/1089, 26 1296/1106, 29 | 1090/1076, 1=-1007/1075, 3=-849/957, =-979/1090, -23=-1049/1076, -25=-1128/1074, -28=-1143/1022, -30=-1350/1136, =-0/7, 13-14=-851/963, =-858/969, |
| REACTIONS | 38= 41= 45= 48= 51= 55= | 0-3-8, 3 =44-8-8 =44-8-8 =44-8-8 =44-8-8 =44-8-8 =44-8-8 =44-8-8 | 12-50 36=44-8-8, 37=44-8-8 3, 39=44-8-8, 40=44-1 3, 42=44-8-8, 43=44-1 3, 46=44-8-8, 47=44-1 3, 49=44-8-8, 50=44-1 3, 53=44-8-8, 57=44-1 3, 55=44-8-8 C 17) | 8-8, 8-8, FORCES 8-8, 8-8, 8-8, 8-8, | (lb) - Max Tension | 57=196 (LC 25), 59=404 (LC 25) kimum Compressi | 58=196 (LC | C 1), | | | | STATE OF I | Server |

Continued on page 2 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



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PE-200101880

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April 14,2023

| | | | | | | RELEASE FOR CONSTRUCTION | | | | |
|---------------------------------|---|--------------------------------|-----|-----|-------------------------|---|--|--|--|--|
| Job | Truss | Truss Type | Qty | Ply | Roof - Osage Lot 55 | AS NOTED FOR PLAN REVIEW | | | | |
| P230180-01 | A1 | Piggyback Base Supported Gable | 2 | 1 | J J | DEVELOPMENT SERVICES 157758142 LEE'S SUMMIT, MISSOURI | | | | |
| | | | | | Job Reference (optional | | | | | |
| Premier Building Supply (Spring | remier Building Supply (Springhill, KS), Spring Hills, KS - 66083, ID:WcRfdZXs?bG3GRhQ2QHdPbz1SCN-RfC?PsB70Hq3NSgPqnL8w3ulT. | | | | | | | | | |

| BOT CHORD | $\begin{array}{l} 2\mbox{-}60\mbox{=}-1000/1331, 60\mbox{-}61\mbox{=}-32/0, \\ 34\mbox{-}35\mbox{=}-52/35, 29\mbox{-}35\mbox{=}-43/37, \\ 33\mbox{-}34\mbox{=}-173/233, 31\mbox{-}33\mbox{=}-410/553, \\ 59\mbox{-}60\mbox{=}-969/1310, 58\mbox{-}59\mbox{=}-969/1310, \\ 57\mbox{-}58\mbox{=}-969/1310, 58\mbox{-}59\mbox{=}-969/1310, \\ 55\mbox{-}58\mbox{=}-969/1310, 54\mbox{-}55\mbox{=}-969/1310, \\ 55\mbox{-}58\mbox{=}-969/1310, 51\mbox{-}53\mbox{=}-969/1310, \\ 50\mbox{-}51\mbox{=}-969/1310, 51\mbox{-}53\mbox{=}-969/1310, \\ 50\mbox{-}51\mbox{=}-969/1310, 47\mbox{-}48\mbox{=}-969/1310, \\ 48\mbox{-}49\mbox{=}-969/1310, 42\mbox{-}48\mbox{=}-969/1310, \\ 41\mbox{-}42\mbox{=}-969/1310, 40\mbox{-}41\mbox{-}-969/1310, \\ 39\mbox{-}40\mbox{=}-969/1310, 38\mbox{-}39\mbox{=}-969/1310, \\ 37\mbox{-}38\mbox{=}-969/1310, 36\mbox{-}37\mbox{=}-969/1310, \\ 37\mbox{-}38\mbox{=}-969/1310, 36\mbox{-}37\mbox{-}-969/1310, \\ 37\mbox{-}38\mbox{=}-969/1310, 36\mbox{-}37\mbox{-}-969/1310, \\ 37\mbox{-}38\mbox{-}-969/1310, 36\mbox{-}37\mbox{-}-969/1310, \\ 37\mbox{-}38\mbox{-}38\mbox{-}-969/1310, 36\mbox{-}37\mbox{-}-969/1310, \\ 37\mbox{-}38\mbox{-}38\mbox{-}96\mbox{-}38\mbox{-}38\mbox{-}38\mbox{-}38\mbox{-}38\mbox{-}38\mbox{-}38\mbox{-}38\mbox{-}3$ |
|-----------|--|
| WEBS | $\begin{array}{l} 35-36=-969/1310\\ 30-33=-400/212,\ 33-35=-250/335,\\ 30-35=-623/873,\ 16-47=-147/77,\\ 17-46=-118/65,\ 18-45=-309/221,\\ 20-43=-443/351,\ 21-42=-98/77,\\ 22-41=-138/85,\ 23-40=-137/84,\\ 24-39=-128/76,\ 25-38=-174/131,\\ 26-37=-137/60,\ 28-36=-357/390,\\ 15-48=-115/65,\ 14-49=-309/221,\\ 12-50=-443/351,\ 11-51=-119/80,\\ 10-53=-139/85,\ 9-54=-135/83,\ 8-55=-136/83,\\ 7-56=-132/82,\ 6-57=-155/95,\ 4-58=-65/62,\\ 3-59=-373/290\end{array}$ |

NOTES

- Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-11-0 to 4-1-0, Exterior(2N) 4.1-0 to 22-4-13, Corner(3R) 22-4-13 to 27-6-0, Exterior(2N) 27-6-0 to 32-7-3, Corner(3R) 32-7-3 to 37-6-0, Exterior(2N) 37-6-0 to 55-11-0 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
- 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.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are MT20 plates unless otherwise indicated.
- 6) All plates are 3x4 MT20 unless otherwise indicated.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads.Bearing at joint(s) 2 considers parallel to grain value
- using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface. 10) This truss is designed in accordance with the 2018
- International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. 11) Graphical purlin representation does not depict the size
- or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



| | | | | | | | RELEASE FOR CONSTRUCTION |
|----------------------------------|---|----------------|-------------------------------------|------|---|---|---|
| Job | Truss | Truss Type | | Qty | Ply | Roof - Osage Lot 55 | AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 157758143 |
| P230180-01 | A2 | Piggyback Base | | 4 | 1 | Job Reference (optional | |
| Premier Building Supply (Spring | ghill, KS), Spring Hills, KS - 66083, | | | | | 2022 MiTek Industries, Inc. 2sB70Hq3NSgPqnL8w3uITX | |
| ↓ ↓ ♀ ↓ 2 ∞I ↓ 2 mT18HS 6x | $\begin{array}{c} 6-9-5 + 9-9-7 + 11\\ -4 + 3-3-1 + 3-0-2 + 7\\ & 5 \\ 4x6 = 4x8 = 6\\ 4x6 = 4 & 5\\ -331 & -331 & -330 & 29\\ 12 = 5x5 = \\ \hline 18HS \ 9x18 = \\ 14\\ 28\\ - 6-9-5 + 16-10\\ -3-5-13 & 10-0- \end{array}$ | | 5-1-3 6x6= 8 33 8 33 26 | 9 34 | <u>38-1-</u> 5-6- 6x6= 10 8 2423 <u>38-1-</u> 5-5- | 9 7-0-13 11 35 22 12 48-0-0 | |

Scale = 1:98.4

| 00000 = 1.00.4 | - | | | | | | | | | | | | |
|-----------------|--|-------------------------|------------------|---------------------------|---|--------------|------------------|----------|------------|-----------|--------|-------------------|------------------|
| Plate Offsets (| (X, Y): [2:0-3-9,Edge] | , [2:0-0-1,Edge], [5:0- | 3-0,Edge | e], [17:0-4-3,Ec | lge], [19:0-2-8,0-1 | -8], [22:0 | -2-8,0-1-8], [23 | :0-2-8,0 | 0-1-8], [2 | 26:0-2-8, | 0-2-0] | , [30:0-7-8,Edge] | |
| 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 | 0.76 | | -0.45 | 28-29 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | | BC | 0.84 | - (-) | -0.86 | 28-29 | >672 | 180 | MT18HS | 244/190 |
| BCLL | 0.0 | Rep Stress Incr | NO | | WB | 0.84 | Horz(CT) | 0.35 | 21 | n/a | n/a | - | |
| BCDL | 10.0 | Code | IRC201 | 18/TPI2014 | Matrix-SH | - | | | | | | Weight: 291 lb | FT = 20% |
| LUMBER | | | V | VEBS | 8-26=-181/941, 1 | | | | LOAD | CASE(S) |) Sta | ndard | |
| TOP CHORD | | ot* 1-5:2x6 SP 2400F | | | 9-25=-457/185, 1 | | | | | | | | |
| | 2.0E, 5-8,13-10:2x4 | | | | 6-28=-1327/370, | | , | | | | | | CIAL ANCHORAGE, |
| BOT CHORD | 2x6 SP 2400F 2.0E | | | | 8-25=-184/226, 1 12-21=-3325/101 | | , | | | | | LLOW FOR THE N | AINIMUM REQUIRED |
| | , | 2 1650F 1.5E, 14-20:2 | | | 6-29=-180/1557, | - / | , | | | | | RESPONSIBILITY | |
| | No.2 | 4 SP No.2, 30-3:2x6 | JFF | | 7-28=-58/734, 4- | | | N | MANUFA | CTURER | OR TH | IE BUILDING DESI | GNER. |
| WEBS | 2x3 SPF No.2 | | | | 11-22=-467/295, | | | | | | | | |
| OTHERS | 2x4 SP No.2 | | | | 19-21=-302/402, | | | | | | | | |
| SLIDER | Right 2x4 SP No.2 - | - 1-11-11 | N | IOTES | | | | | | | | | |
| BRACING | | | 1 |) Unbalanced | d roof live loads ha | ave been | considered for | | | | | | |
| TOP CHORD | Sheathed or 2-1-15 | | | this design. | | | | | | | | | |
| | 2-0-0 oc purlins (3-1 | | 2 | | E 7-16; Vult=115n | | | | | | | | |
| BOT CHORD | | / applied or 10-0-0 oc | | | oh; TCDL=6.0psf; | | | - | | | | | |
| | bracing, Except: 9-2-0 oc bracing: 2- | 20 | | | at. II; Exp C; Encl ie and C-C Exterio | | | e) | | | | | |
| | 6-0-0 oc bracing: 19 | | | | 4-1-0 to 22-4-13, I | | | | | | | | |
| WEBS | 1 Row at midpt | 10-23, 9-25, 6-28, 7· | 26 | | erior (1) 29-5-10 1 | | | | | | | | |
| WEB0 | i non at mapt | 8-25, 11-23, 12-21 | 20, | , | 9-8-1, Interior (1) | , | · · · | | | | | | |
| REACTIONS | (size) 2=0-3-8, 1 | 21=0-3-8, (req. 0-4-9 |) | | eft and right expos | | | | | | | | |
| | Max Horiz 2=180 (Le | C 16) | | | ed;C-C for membe | | | S | | | | | |
| | Max Uplift 2=-320 (L | _C 12), 21=-435 (LC 9 | 9) | for reaction: DOL=1.60 | s shown; Lumber | DOL=1.6 | 0 plate grip | | | | | | |
| | Max Grav 2=2186 (| LC 1), 21=2889 (LC 1 |) 3 | | equate drainage to | | water ponding | | | | | ~ | |
| FORCES | (lb) - Maximum Con | npression/Maximum | 4 | | re MT20 plates ur | | | | | | | South | and |
| | Tension | | 5 | | re 3x6 MT20 unle | | | | | | | F. OF I | MISSO |
| TOP CHORD | , | 7/1254, 3-4=-7831/12 | ^{30,} 6 | | as been designed | | | | | | 4 | STATE OF I | N.S. |
| | 4-6=-6380/910, 6-7= 7-8=-3191/468, 8-9= | , | | | bad nonconcurren | | | | | | A | SCOT | TM. CRN |
| | 9-10=-2832/459, 10 | | 7 | | Required bearing | g size at jo | pint(s) 21 great | er | | | U | / SEV | |
| | 11-12=-2746/337, 1 | | 0 | | earing size. | 11 - 1 | | | | - (| 14 | | 1+4 |
| | 14-15=-1089/1216, | | 8 | | oint(s) 2 consider /TPI 1 angle to gra | | | | | | 20 | 1 | 0 |
| | 17-18=0/1 | | | | ould verify capaci | | | | | | W. | a Thomas | Sor Merz |
| BOT CHORD | 2-30=-1278/7340, 2 | , | 9 | | s designed in acco | | | | | 0 | th 7 | DE 2001 | |
| | 28-29=-738/4825, 2 | , | | | al Residential Cod | | | nd | | | N. | PE-2001 | 018807 |
| | 25-26=-202/2865, 2 22-23=-131/2451, 2 | , | | | and referenced sta | | | | | | Y | 1 Par | 1.SA |
| | , | 1=-166/61, 19-20=-14 | 5/0 1 | | urlin representation | | | ze | | | | CSSIONA | LENA |
| | 17-19=-389/378, 3-3 | | 0,0, | | tation of the purlir | along the | e top and/or | | | | | CONA | |
| | | | | bottom cho | ra. | | | | | | | -un | |

April 14,2023



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

| Image: Description Tas: These Type Type Provide Status And the Description Provide Burg Bary Book Hill, Status Hill, Status Ass Bary Bary Bary Bary Bary Bary Bary Bary | | | | | | | | | | RELEASE FOR CONSTRUCTION |
|--|--|-------------------------------|--------------------------|-----------------------------------|--------------------------|-----------|-----------------|----------------------|-----------------------|--------------------------|
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| <page-header></page-header> | P230180-01 | A3 | | Piggyback Base | | 10 | 1 | Job Reference (| ontional | |
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| Montpole Market Pole | 0-1 | 1-0 3-4-12 | 3-4-9 3- | 7-0-1 | 5 5 | -0-9 | | | 5-1-5 | |
| Montpole Market Pole | + ⁰ + ² + ² + | | | | | | 8 | 23 9 2 | 24 | 1025 |
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| 4/27 dut bdt Intermediate the second | | | | | | | | | | 1413 3x4 ⊪ 🖓⊥ |
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| 0-3-8 0-3-9-1 16-10-4 22-9-0 227-8-0 32-1-8 32-9-7 28-9-0 State -12.72 Piles Offices (X, Y): [2:0-2:13.0-1:3]. [2:2-2:13.0-3]. [5:0-40.Edge]. [19:0-2:8.0-2:0]. [2:0-9-11.Edge] Image: Comparison of the comparison of | | | 18HS 9x18 = | | | | | | | |
| Base -17:77 Place Offeets (X, Y): [2:0-21:0.0-13], [2:2-21:0.0-3], [5:0-40.Edge], [19:0-2-8.0-2-0], [2:0-9-11:Edge] Leading TCLL (roof) (rsof) Spacing State 2:0-0 1:15 CSI BC DEFL BC in (roo) Udel Mit State PLATES State GRIP Mit State BCLL 0.0 Rep Stress Incr NO BC 0:3 DEFL BC in (roof) 0:461 V/rite V/rite 0:2 V/rite 0:2 1:9:7/143 V/rite V/rite V/rite 0:2 1:9:7/143 V/rite V/rite <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>20.0.7</td></t<> | | | | | | | | | | 20.0.7 |
| Base -17:77 Place Offeets (X, Y): [2:0-21:0.0-1:3], [2:2-21:0.0-3], [5:0-40.Edge], [19:0-2-4:0.2-0], [2:0-9-11:Edge] Leading TCLL (roof) (rsof) Spacing Place (fing DCL 1:15 CSI BC DEFL 0:0:8 in (roo) Videl Viet(LI, -0.32 Videl 1:0:9 Videl Viet(LI, -0.32 | (| -3-8 3-3-8 H -3-8 3-0-0 | | | | | | | <u>2-1-8</u> I-7-8 | |
| Loading (pt) Spacing 20-0 CSI DEFL in (loc) Idel PLATES GRIP TCLL (loc) 10:0 Plate Grip DOL 11.15 IS 0.68 Ver(I) -0.32 18-19 >399 240 MT2L 244.4190 BCLL 0.0 DEX 10:0 Code IS 0.72 Ver(I) -0.32 18-19 >399 240 MT2L 244.4190 MT14HS 197/144 BCLL 0.00 Code ISSEssand | Scale = 1:72.7 | | 3] [2·2-2-13 0-0-3] [5 | ·0-4-0 Edge] [10:0-2-8 | 0-2-0] [20:0-9-11 Ed | ael | | | | |
| TCLC (root) 25.0 Place Gro DOL 1.15 TC 0.68 Wer(T) -0.32 18-16 9896 240 MT20 24/190 BCL 0.00 Rep Stress Indr NO WE 0.72 Wer(T) -0.72 18-19 652 18-19 652 18-19 652 18-19 652 18-19 652 18-19< | | | | | 1 | | | · // \ /// | | |
| BCLL 0.0 Rep Stress Ind* NO WE 0.72 Mor2(CT) 0.27 12 n/a n/a BCDL 10.0 Code IRC2018/TPL2014 Matrix-SH Mor2(CT) 0.27 12 n/a n/a BCDL 10.0 Code IRC2018/TPL2014 Matrix-SH Mor2(CT) 0.27 12 n/a n/a DFC PORD 2x4 SP No.2 "Except" 1-52:26 SP 2400F Code Not SCE Not Sce | TCLL (roof) | 25.0 | Plate Grip DOL | | TC (|).68 V | /ert(LL) -(| 0.32 18-19 >99 | 9 240 | MT20 244/190 |
| LUMBER TOP CHORD Zx4 SP No.2 "Except" 1-5:2x6 SP 2400F 2005, 5-8:2x4 SP No.2 "Except" 22:02x6 SP 2400F 2005, 17:20:2x4 SP No.2 "Except" 12:11:2x4 SP No.2 Except" 2:02:2x6 SP 2400F 2005, 17:20:2x4 SP No.2 "Except" 12:11:2x4 SP No.2 BRACINOS TOP CHORD Sheathed or 2-9-9 op pulins, except end wettals, and 2:0-0 oc pulins, except end wettals, and 2:0-0 oc pulins, except end max floring. BOT CHORD Rigid ceiling directly applied or 8-4-1 oc bracing. WEBS 1 Row at might 11:12,9-15,10-13,8-15, 7-16,6-18 Max Grav 2:1787 (LC 1), 12:1711 (LC 1) FORCES (b) - 4:200;803(3), 6:18-4:80737, 4:19-724/254, 4:20-857/178, 10:13-8971/235, 9:15-4350/18, 10:13-8971/235, 9:15-4350/18, 10:13-8971/23 | | | | | | | . , | | | MT18HS 197/144 |
| TOP CHORD 244 SP No.2*Except 1:52:x6 SP 2400F GOT CHORD 205, 58:24 SP 1650F 1:52:x6 BOT CHORD 224 SP No.2*Except 2:20:26 SP 2400F VERS 223 SPF No.2*Except 1:21:1:24 SP No.2 BTOP CHORD Sheathed or 2:9-9 op puttins, except end TOP CHORD Sheathed or 2:9-9 op puttins, except end VERS Sheathed or 2:9-9 op puttins, except end TOP CHORD Sheathed or 2:9-9 op puttins, except end VERS 1:1:2,9:1:1:0:10:10:24-13; Except (72:10:10:4):1:5:10:13; 8:1; BOT CHORD Sheathed or 2:9-9 op puttins, except end VERS 1:1:2,9:1:0:13; 1:2:4:2:15:10:13; 8:1; BOT CHORD Kegid calling directly applied or 8:4-1 oc bracing. VERS 1:1:2:9:1:0:13; 1:2:4:2:16:10:13; 8:1; NCES (kis) 2:-2:4:10:13; 2:-2:16:10:13; 8:1; WEBS 1:1:1:2:9:17:10:13; 1:2:-2:16:10:13; 8:1; NCES 1:1:1:2:9:17:10:13; 1:2:-2:16:10:13; 8:1; BOT CHORD 1:2:-0:17:10:13; 1:2:-2:16:10:12; Max Upiti 1:2:-2:3:0:10:11:0:2:0:0:16:8:2:0; 1:1:12:9:17:10:13; 1:1:12:9:17:10:10; FORCES (b) - Maximum Compression/Maximum 1:1:1:12:9:17:10:10; 1:1:12:10:10; TDP CHORD 1:2:-0:11:11:12:0:17:10:1; 1:1:10:10:10; | BCDL | 10.0 | | IRC2018/TPI2014 | Matrix-SH | | · · · · | | | Weight: 209 lb FT = 20% |
| 20:E 5:8/2x4 SP 1650F 1.5E 20: BOT CHORD 2:4 SP No.2 *Except 1:20:2x6 SP 2400F 2:05: 15:8/2x4 SP 2x4 SP 2x4 SP 2x40F 2:0E 2:05: 17:20:2x4 SP 2x40F 2:0E BRACING Sheathed or 2:9-9 oc purins, except end, use of 0:00 SP 2x40F 2:00 co purins, except end, use of 0:00 SP 2x40F 2:00 co purins, except end, use of 0:00 SP 2x418; Exp 0:Enclosed: MWHRS (envelope) BOT CHORD Sheathed or 2:9-9 oc purins, except end, use of 0:00 SP 2x418; Exp 0:Enclosed: MWHRS (envelope) BOT CHORD Sheathed or 2:9-9 oc purins, except end, use of 0:00 SP 2x418; Exp 0:Enclosed: MWHRS (envelope) BOT CHORD Sheathed or 2:9-9 oc purins, except end, use of 0:00 SP 2x418; Exp 0:Enclosed: MWHRS (envelope) WEBS Individual differenced of 2:00 co purins, except end, use of 0:00 SP 2x418; Exp 0:00 co purins, except end, use of 0:00 SP 2x418; Exp 0:00 co purins, except end, use of 0:00 SP 2x418; Exp 0:00 co purins, except end, use of 0:00 SP 2x418; Exp 0:00 co purins, except end, use of 0:00 SP 2x418; Exp 0:00 co purins, except end, use of 0:00 co purins, except end, use of 0:00 SP 2x418; Exp 0:00 co purins, except end, use of 0:00 Co purins, except end, use of 0:00 Co purins, except end, use of 0:00 Co purins, except end 0:00 Co purins, except end 0:00 Co purins, except end, use of 0:00 Co purins, except end | | lo 2 *Excent | * 1-5·2v6 SP 2400F | | roof live loads have b | een cor | nsidered for | | | |
| 2.0E 17.20/2.94 SP 2400F 2.0E Ke=0.96; Cat. II: Exp C; Enclosed: WWFRS (envelope) BRACING BRACING TOP CHOR Sheathed or 2-9-9 oc putins, except end verticals, and 2-0-0 oc putins, (4-4-3 max); 8-10. Ke=0.96; Cat. II: Exp C; Enclosed: 21: 0-11-0 to 4-1.0, Interior (1) 4-1-0 to 22-4-13; Exterior(ZR) 22-4-13 to 29-5-10 to 22-7.3 to 38-2-4 zone; cantilever land right exposed ; end verticals, and 2-0-0 co putins, (4-4-3 max); 8-10. Network indication in the interior (2) end inter | 2.0E, 5-8 | :2x4 SP 165 | 50F 1.5E | Wind: ASCE | | | | | | |
| BRACING TOP CHORD Sheathed or 2-9-9 oc purlins, except and verticals, and 2-0-0 oc purlins (4-4-3 max). 8-10. Interior (1) 4-1-0 to 22-4-13, Exterior(2E) 22-4-13 to 22-7-3 to 38-2-4 zone; cancilevel left and right exposed : a2-7-3 to 38-2-4 zone; cancilevel left and right exposed : model adequate drainage to prevent water ponding. 7-16, 6-18 WEBS 1 Row at midpt 11-12, 9-15, 10-13, 8-15, 7-16, 6-18 11-12, 9-15, 10-13, 8-15, 7-16, 6-18 3. REACTIONS (size) 22-9-3.8 (LC 2) Max Uplit 22-274 (LC 12), 12=2-18 (LC 8) Max Grav 2=1787 (LC 1), 12=1711 (LC 1) 3. Max Grav 2=1787 (LC 1), 12=1711 (LC 1) 12-011, 2-3-e5964(1326, 3-4-62275/1279, 4-6=-4860(3337, 10-11-1097/218, 11-12186(1316) 7. This truss is designed in accordance with the 2018 Interinational Residential Code sections RS02.11.1 and R802.10.2 and referenced standard ANS/ITP1 1. FOR CHORD 1-2-011, 2-3-e5964(1326, 3-4-62275/1279, 4-6=-4860(3337, 10-11-1097/218, 11-12186(1316) 7. This truss is designed in accordance with the 2018 Interinational Residential Code sections RS02.11.1 and R802.10.2 and referenced standard ANS/ITP1 1. 6. Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord. 5. UBS 8.16-18/7/32, 9.15-e-309/178, 11-12-920/1285, 7.18-e-37/1634, 3-20-161/1042 7. F. NOTES VETER VETER VETER VETER | 2.0E, 17- | 20:2x4 SP 2 | 2400F 2.0E | Ke=0.96; Ca | at. II; Exp C; Enclosed | ; MWFF | RS (envelope) | | | |
| Storichic Biologianity, and 20-0 oc pulling (4-43 max): 8-10. BOT CHORD Rigid celling directly applied or 8-4-1 oc bracing. WEBS 1. Row at midpt 11-12, 9-15, 10-13, 8-15, 10-13, 8-16, 18 WEBS 1. Row at midpt 11-12, 9-15, 10-13, 8-16, 18 WEBS 1. Row at midpt 11-12, 9-15, 10-13, 8-16, 18 WEBS 1. Row at midpt 11-12, 9-15, 10-13, 8-16, 18 WEBS 1. Row at midpt 11-12, 9-15, 10-13, 8-16, 18 WEBS 1. Row at midpt 11-12, 9-16, 110 Provide adequate drainage to prevent water ponding. All plates are MT20 plates unbes otherwise indicated. This truss has been designed for a 10.0 ps footrom chord live load anoncoccurrent with any other live loads. Bot CHORD 1.2-0/11, 2-3-6964/1356, 3-4-6275/1279, 4-6-486/2637, 11-12-1797/18, 11-12-166/137, 10-11-1097/218, 11-12-166/137, 10-11-1097/218, 11-12-166/137, 10-11-1097/218, 11-12-166/130, 6-18-116/322, 9-1558/6337, 10-11-1097/218, 11-12-166/130, 6-18-116/322, 9-1558/637, 6-19-203/1258, r1-8-580/194, 10-13-8-71/205, 11-13-580/194, 10-13-8-71/205, 11-13-580/194, 10-13-8-71/205, 11-13-580/194, 10-13-8-71/205, 11-13-580/194, 10-13-8-71/205, 11-13-217/1433, 7-16-11097/218, 11-13-217/1433, 7-16-11097/218, 11-13-217/1433, 7-16-11097/218, 11-3-580/194, 10-13-8-71/205, 11-13-217/1433, 7-16-11097/218, 11-3-580/194, 10-13-8-71/205, 11-13-217/1433, 7-16-11097/218, 11-3-580/194, 10-13-8-71/205, 11-13-217/1433, 7-16-11097/218, 11-3-580/194, 10-13-8-71/205, 11-13-217/1433, 7-16-11097/218, 11-3-217/1433, 7-16-11097/218, 11-38-217/1433, 7-16-11097/218, 11-38-217/1433, 7-16-110-1097/218, 11-38-217/1433, 7-16-11097/218, 11-38-217/1433, 7-16-11097/218, 11-38-217/1433, 7-16-11097/218, 11-38-217/1433, 7-16-11097/218, 11-38-217/1433, 7-16-11097/218, 11-38-217/1433, 7-16-11097/218, 11-38-217/1433, 7-16-11097/218, 11-38-217/1433, 7-16-11097/218, 11-38-217/1433, 7-16-11097/218, 11-38-217/1433, 7-16-11097/218, 11-38-217/1433, 7-16-11097/218, 11-38-217/1433, 7-16-11097/218, 11-38-217/1433, 7-16-11097/218, | | No.2 ^Excep | pt* 12-11:2x4 SP No.2 | Interior (1) 4 | -1-0 to 22-4-13, Exter | ior(2R) | 22-4-13 to | | | |
| BOT CHORD Rigid celling directly applied or 8-4-1 oc bracing. WEBS 1 Row at midpt 11-12, 9-15, 10-13, 8-15, REACTIONS (size) 2-0-3-8, 12-0-3-8 Max Horiz 2-356 (LC 12) Max Uplit 2-374 (LC 12), 12218 (LC 6) Max Uplit 2-374 (LC 12), 12218 (LC 6) Max Grav 2-1787 (LC 1), 121711 (LC 6) FORCES (b) - Maximum Compression/Maximum Tension TOP CHORD 12-00/11, 2-3-6964/1356, 3-4-6275/1279, 4-6-4840/824, 6-72-2875/432, 9-10a-1558/337, 10-11-1097/218, 11-122-1610/301, 6-18a-1485/2570, 15-16a-29971400, 13-15-1499/622, 12-13-5/16 WEBS 8-16-187/932, 9-15-4350/78, 10-13-971/235, 8-15-580/184, 10-13-971/235, 8-15-580/184, 10-13-971/235, 8-15-580/184, 10-13-971/235, 8-15-580/184, 10-13-971/235, 8-15-580/184, 10-13-971/235, 8-15-580/184, 10-13-971/235, 8-15-580/184, 10-15-1971/205, 11-13-2771/634, 3-20-161/1042 NOTES NOTES | | | | : 32-7-3 to 38 | -2-4 zone; cantilever l | eft and | right exposed | | | |
| braining, or full spin DOL=1.60 grip DOL=1.60 | | ing directly : | applied or 8-4-1 oc | | | | | <u>k</u> | | |
| All plates are MT2D plates unless otherwise indicated. 7:16, 6:18 All plates are MT2D plates unless otherwise indicated. This truss has been designed for a 10.0 psf bottom thoral with any other live loads. Bearing at joint(s) 2 considers parallel to grain value using ANSUTP1 1 angle to grain value using ANSUTP1 1 angle to grain formula. Building designer should verify capacity of bearing surface. This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. Bearing at joint(s) 2 considers parallel to grain value using ANSUTP1 1 angle to grain value using ANSUTP1 1. Graphical putfin representation does not depict the size or the orientation of the putfin along the top and/or bottom chord. LOAD CASE(S) Standard VEBS 8 16e-187/932, 9-15e-435/178, 10-15a-97/1205, 11-13-217/1433, 7-16=-1109/310, 6-18=-1154/373, 6-19=-203/1258, 7-18=-57/673, 4-19=-734/254, 4-20=-577/1634, 3-20=-161/1042 NOTES | bracing. | | | 2) Drevide ede | | vent wa | ter ponding. | | | |
| KEC (1008) (329) 22056 (LC 12) Max Hoirz 2-356 (LC 12) Max Grav 2=1787 (LC 12), 12=-218 (LC 8) Max Grav 2=1787 (LC 1), 12=1711 (LC 1) Max Grav 2=1787 (LC 1), 12=1711 (LC 1) FORCES (b) - Maximum Compression/Maximum Tension 7) TOP CHORD 1-2=0/(11, 2-3=-6964/1356, 3-4=-6275/1279, 4-6=-4420/024, 6-7=-2875/432, 7-8=-2085/390, 8-9=-1558/337, 0-11=-1097/218, 11-12=-1661/316 7) BOT CHORD 2-20=-1556/6304, 19-20=-954/4435, 18-19=-820/3608, 16-18=-485/2570, 15-16=-299/1840, 13-15=-149/962, 12-13=-51/16 6) WEBS 8-16=-187/932, 9-15=-435/178, 10-15=-199/1240, 1-13=-217/1433, 7-16=-1109/310, 6-18=-1154/373, 6-19=-203/1288, 7-18=-576/73, 4-19=-734/254, 4-20=-577/1634, 3-20=-161/1042 CASE(S) NOTES Votes | | | 7-16, 6-18 | 4) All plates are | e MT20 plates unless | otherwi | se indicated. | | | |
| Max Oplint 2e=274 (LC 12), 12=-218 (LC 8) Max Grav 2=1787 (LC 1), 12=-1711 (LC 1) FORCES (lb) - Maximum Compression/Maximum Tension TOP CHORD 1-2=0/11, 2-3=-6964/1356, 3-4=-6275/1279, 4-6=-4840/824, 67=-2875/432, 7-8=-2085/390, 8-9=-1558/337, 10-11=-1097/218, 11-12=-1661/316 BOT CHORD 2-20=-1556/6304, 19-20=954/4435, 18-19=-820/3608, 16-18=-485/2570, 15-16=-239/1840, 13-15=-149/962, 12-13=-5/16 BOT CHORD 2-20=-1556/6304, 19-20=954/4435, 10-13=-971/235, 8-15=-580/184, 10-15=-197/1205, 11-13=-217/1433, 7-16=-1109/310, 6-18=-1154/373, 4-19=-734/254, 4-20=-577/1634, 3-20=-161/1042 WEBS 8-16=-187/932, 9-15=-435/178, 10-13=-971/235, 8-15=-580/184, 10-15=-971/235, 8-15=-580/184, 10-15=-971/235, 8-15=-580/184, 10-15=-971/235, 8-15=-580/184, 10-15=-1154/373, 4-19=-734/254, 4-20=-577/1634, 3-20=-161/1042 NOTES NOTES | · · · | | | chord live lo | ad nonconcurrent with | n any otl | her live loads. | | | |
| FORCES (b) - Maximum Compression/Maximum Tension 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R502.10.2 and referenced standard ANS/TP11. TOP CHORD 1-2=0/11, 2-3=-6964/1356, 3-4=-6275/1279, 4-6=-4840/824, 6-7=-2875/432, 7-8=-2085/390, 8-9=-1558/337, 9-10=-1558/337, 10-11=-1097/218, 11-12=-1661/316 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R502.10.2 and referenced standard ANS/TP11. BOT CHORD 2-20=-1558/330, 19-20=-954/4435, 18-19=-820/3080, 16-18=-485/2570, 15-16=-299/1840, 13-15=-149/962, 12-13=-5/16 6) Standard WEBS 8-16=-187/932, 9-15=-435/178, 10-13=-971/235, 8-15=-580/184, 10-15=-1971/205, 11-13=-217/1433, 7-16=-1109/310, 6-18=-1154/373, 6-19=-203/1258, 7-18=-57/673, 4-19=-734/254, 4-20=-577/1634, 3-20=-161/1042 CASE(S) Standard NOTES NOTES VE VE NOTES This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord. CASE(S) Standard | | | | using ANSI/ | TPI 1 angle to grain fo | rmula. | Building | | | |
| TOP CHORD 1-2=0/11, 2-3=-6964/1356, 3-4=-6275/1279, 4-6=-4840/824, 6-7=-2875/432, 7-8=-2085/390, 89=-1558/337, 9-10=-1558/337, 10-11=-1097/218, 11-12=-1661/316 R02.10.2 and referenced standard ANSI/TP1 1. 802.10.2 and referenced standard ANSI/TP1 1. Graphical purfin representation does not depict the size or the orientation of the purfin along the top and/or bottom chord. Immunology (1) BOT CHORD 2-20=-1556/6304, 19-20=-954/4435, 18-19=-820/3608, 16-18=-485/2570, 15-16=-299/1840, 13-15=-149/962, 12-13=-5/16 Immunology (2) WEBS 8-16=-187/932, 9.15=-435/178, 10-13=-971/235, 8-15=-580/184, 10-15=-197/1205, 11-13=-217/1433, 7-16=-1109/310, 6-18=-1154/373, 6-19=-203/1258, 7-18=-57/673, 4-19=-734/254, 4-20=-577/1634, 3-20=-161/1042 LOAD CASE(S) Standard NOTES Motor Figure 4 Figure 4 <td< td=""><td>FORCES (lb) - Mai</td><td></td><td></td><td> This truss is </td><td>designed in accordan</td><td>ce with</td><td>the 2018</td><td></td><td></td><td></td></td<> | FORCES (lb) - Mai | | | This truss is | designed in accordan | ce with | the 2018 | | | |
| 7-8=-2085/390, 8-9=-1558/337, 9-10=-1558/337, 10-11=-1097/218, 11-12=-1661/316 BOT CHORD 2-20=-1556/6304, 19-20=-954/4435, 18-19=-820/3608, 16-18=-485/2570, 15-16=-299/1840, 13-15=-149/962, 12-13=-5/16 WEBS 8-16=-187/932, 9-15=-435/178, 10-13=-971/235, 8-15=-580/184, 10-15=-197/1205, 11-13=-217/1433, 7-16=-1109/310, 6-18=-1154/373, 6-19=-203/1258, 7-18=-57/673, 4-19=-734/254, 4-20=-577/1634, 3-20=-161/1042 NOTES | TOP CHORD 1-2=0/11 | | | 9, R802.10.2 a | nd referenced standa | rd ANSI | I/TPI 1. | | | |
| 15-16=-299/1840, 13-15=-149/962, 12-13=-5/16 WEBS 8-16=-187/932, 9-15=-435/178, 10-13=-971/205, 8-15=-580/184, 10-15=-197/1205, 11-13=-217/1433, 7-16=-1109/310, 6-18=-1154/373, 6-19=-203/1258, 7-18=-57/673, 4-19=-734/254, 4-20=-577/1634, 3-20=-161/1042 NOTES | 7-8=-208 | 5/390, 8-9=- | -1558/337, | or the orient | ation of the purlin alor | | | 9 | | ALLER |
| 15-16=-299/1840, 13-15=-149/962, 12-13=-5/16 WEBS 8-16=-187/932, 9-15=-435/178, 10-13=-971/205, 8-15=-580/184, 10-15=-197/1205, 11-13=-217/1433, 7-16=-1109/310, 6-18=-1154/373, 6-19=-203/1258, 7-18=-57/673, 4-19=-734/254, 4-20=-577/1634, 3-20=-161/1042 NOTES | 11-12=-1 | 661/316 | | | | | | | | SE OF MISCON |
| 12-13=-5/16 WEBS 8-16=-187/932, 9-15=-435/178, 10-13=-971/235, 8-15=-580/184, 10-15=-197/1205, 11-13=-217/1433, 7-16=-1109/310, 6-18=-1154/373, 6-19=-203/1258, 7-18=-57/673, 4-19=-734/254, 4-20=-577/1634, 3-20=-161/1042 NOTES | | | | () | | | | | E | |
| WEBS 8-16=-187/932, 9-15=-435/178, 10-13=-971/235, 8-15=-580/184, 10-15=-197/1205, 11-13=-217/1433, 7-16=-1109/310, 6-18=-1154/373, 6-19=-203/1258, 7-18=-57/673, 4-19=-734/254, 4-20=-577/1634, 3-20=-161/1042 NOTES | 15-16=-2 | 99/1840, 13 | | | | | | | A | |
| 10-15=-197/1205, 11-13=-217/1433, 7-16=-1109/310, 6-18=-1154/373, 6-19=-203/1258, 7-18=-57/673, 4-19=-734/254, 4-20=-577/1634, 3-20=-161/1042 NOTES | WEBS 8-16=-18 | 7/932, 9-15= | | | | | | | 8 | |
| NOTES | 10-15=-1 | 97/1205, 11 | -13=-217/1433, | | | | | | 8 | alt server |
| 3-20=-161/1042 NOTES | 6-19=-20 | 3/1258, 7-18 | 8=-57/673, | | | | | | N. | |
| | | | =-577/1634, | | | | | | Ŷ | ATON AND |
| April 14,2023 | NOTES | | | | | | | | | ONAL EL |
| | | | | | | | | | | April 14,2023 |

ent 16023 Swingley Ridge Rd Chesterfield, MO 63017

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

| | | | | | | | | | | | | | | I | RELEASE | FOR CON | STRUCTION |
|------------------------------------|-----------------------------|-----------------------|---------------------------------|------------------------------|--|--|-------------------|-------------|----------------|-------------|---------------------|-------------------------|------------|---------------|--------------------------|---------------------------------|--------------------------------|
| Job | | Truss | | Tru | uss Type | | | Qty | Ply | R | oof - Osa | ge Lot 55 | 5 | | | | AN REVIEW |
| P230180-01 | 1 | A4 | | Pi | ggyback Bas | e Girder | | 2 | 2 | | b Refere | nce (onti | onal | | | DPMENT S 157758 Summit, M | |
| Premier Building | J Supply (Spring | hill, KS), S | pring Hills, KS - | 66083, | | | .63 S Nov 19 | | | lov 19 20 | 022 MiTek I | ndustries, | Inc. | | | $\frac{18}{2}$ | 201 |
| | | | | | | ID:IkXF | HPRUnAQGI | NLGmql6q | 4dzaidp-RfC | C?PsB70 | Hq3NSgPc | InF8w3nIT | TXbGI | WrCDoi | 4296?f | | |
| | ⊢ | <u>4-11</u> 4-11 | -5 7- | <u>7-9 9-9</u> - 8-4 2-1- | -7 1 | 16-10-4 7-0-13 | | 22-4-13 | | 27-6- | | | -7-3 | | 38-4 | | |
| | | 4-11 | -5 2- | 8-4 '2-1- | 14 ' | 7-0-13 | • | 5-6-9 | 0.0 | 5-1-3 | | | 1-3 | | 5-8- | -13 | |
| - · | ထု | | | | | | | 6- 8- | 6x6= 7 | 2 | 1.52 23 8 ⊠ ⊠ | ×4 ∎ 24 | | 6x6 9 | = 25 | | |
| | 0-1-8 | | | | | | 4x6 ≠ | | | | | | | | 23 | | |
| | | | | | | | 4×0 ± | | | | | | | | | Ĺ | ¹ x6 ≈ 10 |
| | | | | | 12 5 | 22 | R | | | | | | | / | | | |
| | <u>o</u> | | | | 4x4 = | | | | | | | | | | | | |
| 9-10-8 8-10-8 | 2 | | 5x5 ≠ | 3x6 ≠ | 5 | | | | | | | | // | | / | | ې. |
| ~ | | MT18HS | 3x10 ≢ | 4 | | | | | | | \parallel | | | | | / | 6-7 |
| | | 0 | 3 | | | | | | | | | | | | | | |
| | - 1 | 2 | | | | | | | \searrow | | | / | | | // | | ₽ 11 |
| | | | | | | | | | 15 | | 14 | 13 | | 12 | | | 벌 11 ⊥ 3x4 ∎ |
| | | 26 2 | | | 20 | | 18 8x10 | | 4x4= | | 5x | B= | | 4x4 | 4= | | 384 1 |
| | | HS 6x12 ecial | | | 10x10= | | 6x6= | - | | | | 3x6= | | | | | |
| | Op. | | MT18HS 3 cial Special | к10 ш | | | | | | | | | | | | | |
| | 1 | 4-11 | | 9-9-8 | 1 | 16-10-4 1 | 17-3-0 16-11-8 | 22-3-9 | 1 | 27-6- | 0 28 | -4-0 3 | 32-8-7 | 7 , | 38- | 4-0 | |
| | F | 4-11 | -4 | 4-10-4 | | | 0-1-4 0-3-8 | 5-0-9 | 1 | 5-2-7 | - | 0-0 | 4-4-7 | i i | 5-7 | 7-9 | - |
| Scale = 1:71.6 Plate Offsets () | X. Y): [1:0-2- | 14.0-3-8 | l. [3:0-1-12.0-1 | 1-8]. [16:0-4 | -0,0-2-0], [20:0 |)-5-0.0-5-41 | 0-3-8 | | | | | | | | | | |
| | , , t - | | | | | - | | | | | (1) | 1/-1-41 | 1.41 | | | | |
| L oading TCLL (roof) | | (psf) 25.0 | Spacing Plate Grip D | 2-0 OL 1.1 | | TC | | | EFL ert(LL) | in -0.22 | (loc) 15-16 | l/defl >999 | L/d 240 | PLATE MT20 | E3 | GRIP 244/190 | |
| TCDL | | 10.0 | Lumber DOL | | | BC | | | ert(CT) | -0.40 | | | 180 | MT18H | HS | 197/144 | |
| BCLL BCDL | | 0.0 10.0 | Rep Stress I Code | | , C2018/TPI2014 | WB 4 Matrix-S | | 0.94 H | orz(CT) | 0.12 | 11 | n/a | n/a | Weigh | it: 445 lb | FT = 20 ⁴ | % |
| LUMBER | | | | | NOTES | | | | | | 10) Han | ger(s) or | other | r connec | ction devic | e(s) shall | be |
| TOP CHORD | 2x4 SP No.2 2.0E | 2 *Excep | t* 1-4:2x4 SP | 2400F | | uss to be conne x3") nails as fol | | her with 1 | 0d | | | | | | ort conce -8-12, and | | ad(s) 563 own and 93 |
| BOT CHORD | 2x4 SP No.2 | | t* 17-16:2x3 S | | Top cho | ords connected | | : 2x4 - 1 r | ow at 0-9- | 0 | lb up | at 2-8- | 12, ar | nd 4771 | lb down a | and 681 lb | up at |
| | 2.0E | | , 20-1:2x6 SP | | | chords connec | | | | | | | | | he design/ e responsi | | |
| NEBS | 2x3 SPF No No.2 | 0.2 *Exce | pt* 11-10,20-1 | 9:2x4 SP | 0-9-0 o at 0-5-0 | c, 2x4 - 1 row a) oc. | at 0-9-0 oc, | 2x6 - 3 ro | ows stagge | ered | LOAD C | | | | ced): Lum | her Incre | asa-1 15 |
| SLIDER | Left 2x4 SP | No.2 2 | 2-5-12 | | Web co | nnected as foll | | | | | Pla | te Increa | ase=1 | .15 | ccu). Lum | | |
| BRACING TOP CHORD | Structural w | ood shea | athing directly | applied or | row at (| member 3-21 2)-9-0 oc. | | | | | | iform Loa /ert: 1-7= | | |), 9-10=-70 | 0, 11-16= | -20, |
| | 3-2-2 oc pu | rlins, exc | cept end vertic | | | s are considere if noted as from | | | | DAD | | I-17=-20 ncentrate | | ads (lb) | | | |
| BOT CHORD | Rigid ceiling | directly | applied or 10- | 0-0 oc | CASE(S | S) section. Ply t d to distribute d | to ply conn | ections h | ave been | | | | | . , | 6=-563 (F), | , 27=-559 | (F) |
| | bracing, Ex 6-0-0 oc bra | | -17. | | unless | otherwise indic | ated. | | | | | | | | | | |
| REACTIONS | (size) 1 Max Horiz 1 | =0-3-8, 1 -349 (LC | | | Unbalar this des | nced roof live lo sign. | oads have l | been con | sidered foi | r | | | | | | | |
| | Max Uplift 1 | =-1019 (| LC 12), 11=-3 | . , | | NSCE 7-16; Vul 1mph; TCDL=6 | | | | | | | | | | | |
| FORCES | Max Grav 1 | | .C 1), 11=2359 pression/Maxi | | Ke=0.9 | 6; Cat. II; Exp C | C; Enclosed | d; MWFR | S (envelop | | | | | | | | |
| | Tension | | | | | zone and C-C (1) 4-11-5 to 22 | | | | | | | | | | | |
| TOP CHORD | 1-3=-13024/ 5-6=-5174/7 | | 5=-7714/1114 -3383/575, | , | |), Interior (1) 29 to 38-2-4 zone; | | , | () | ed : | | | | 6 | 2000 | TO | |
| | 7-8=-2363/4 | | -2363/454, 11=-2310/409 | | end ver | tical left expose | ed;C-C for | members | and force | s & | | | | Fris | OF M | AISSO | D |
| BOT CHORD | 16-17=-372 | /0, 16-19 | =-721/4205, | | grip DC | S for reactions | snown; Lur | mber DOL | _=1.60 pia | le | | | B | AT/ | SCOTT | | Na |
| | 15-16=-799/ 12-14=-209/ | | I-15=-469/303 I-12=-5/17, | 2, | | adequate drai | | | | | | | R | 7 | SEVI | | 1 × 1 |
| | 1-21=-1985/ 17-18=-80/4 | | 8-21=-1983/1 | 1735, | 7) This tru | ss has been de | esigned for | a 10.0 ps | sf bottom | | | - { | 8* | [| 45 | 0 | * |
| WEBS | 7-15=-347/2 | 2075, 9-1 | 2=-1447/305, | | 8) This tru | ve load noncon iss is designed | in accorda | nce with t | the 2018 | | | Ż | | tet | | A Co | yes |
| | | | =-307/1963, 12=-308/2066 | i, | | tional Residenti 0.2 and referen | | | | nd | | | 87 | o P | E-20010 | | EA |
| | 18-19=0/546 | 6, 6-19=- | | | 9) Graphic | cal purlin repres | sentation de | oes not d | epict the s | ize | | | V | - The | | | \$A |
| | 5-19=-2720/ | /489, 6-1 | 5=-2521/529, | | or the o bottom | rientation of the chord. | e purlin alo | ong the top | o and/or | | | | 0 | Pos | IONA | LEN | Ą |
| | 19-20=-115 | 8/6641, 3 | 3-21=-620/462 | 3 | | | | | | | | | | 4 | and | | 22 |
| | | | | | | | | | | | | | | | April | 14,202 | |
| | IING - Verify desig | n paramete | rs and READ NOT | 'ES ON THIS A | | TEK REFERENCE | | | | | | | | | | 14,202 | 23 |

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTER REFERENCE PAGE MII-7473 ev. 5/19/2020 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, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

16023 Swingley Ridge Rd Chesterfield, MO 63017

| | | | | | | | | | | | | RELEASE | FOR CONSTRUCTION | |
|------------------------|----------------------------------|------------------|--|---------------|--|---------------------------------------|--------------|----------------------|----------|------------------------|--------------------------|-------------------|--|--|
| Job | 1 | Fruss | | Truss Ty | rpe | | Qty | PI | у | Roof - Osa | ge Lot 55 | | | |
| P230180-01 | | 45 | | Pigavba | ack Base | | 4 | 1 | | lah Defere | nce (optional) | | DPMENT SERVICES 157758146 SUMMIT, MISSOURI | |
| Premier Building | Supply (Springhill, | | Hills, KS - 66083, | 337 | | Run: 8.63 S | Nov 19 2022 | Print: 8.630 | S Nov 1 | | Industries, Inc. | 'hu Apr 13 044:30 | 18/2023 | |
| | | | | | | ID:WcRfdZXs | ?bG3GRhQ2 | QHdPbz1S | CN-RfC? | PsB70Hq3NS? | gPqnL8w3uITX | GKWrCDol754zJC? | 50/2023 | |
| | | ⊢ | <u>2-10-0</u> 4-11-14 2-10-0 2-1-14 | ļ | 12-0-11 | 17-7 | | 22-8- | | 27-9-1 | | 33-6-7 | | |
| | | I | 2-10-0 2-1-14 | | 7-0-13 | 5-6- | 9 6x6 | 5-1-3 - | | 5-1-3 5x4 u | 6x6= | 5-8-13 | | |
| | -1-0 -1-0 -1-8 | | | | | | ∞ 5 5 | 2 | | 6 <u>2</u> 3 | ⁷ 24 | | | |
| | | | | | | 3x4 = | à | \ \ | | 8 | | 5x5 👟 | | |
| | | | | | 5 ¹² 25 | 4 | | | | | | 8 | Т | |
| | ထုထု | | 3 | x4 = | | | | | | | | | | |
| | 10-0-0 9-10-8 8-10-8 | | 3x4 = 3 | | | | | | ⊠ | | × | | | |
| | 2 | 4x | 6= 2 | | | 1 | | \ | | | | × | 7-7-5 | |
| | | J F | | | | | | | | | | | | |
| | | 2-8-0 | | | | | | | <u> </u> | <u> </u> | 12* | | | |
| | ΤάΤά | ⊥ 21 🗄 | 2 | 0 | | | 15 3x4= | | | 4 13 x8= | 3, <u>₽ 107</u> 10 | <u></u> 9 8 | | |
| | | 1.5> | A4 II | x8= | | 7x8= | | | | MT18HS | | 1.5x4 | I | |
| | | | | | | 1.5x4 I | | | | | 4x4 II 1.5x4 = | | | |
| | | | | | | 12-5-7 | | | | | 5x5= 27-11-6 | | | |
| | | F | <u>4-11-14</u> 4-11-14 | l | 12 0 11 | 12-1-15 17-6 | | 22-8- | | 20010 | 27-9-10 | 33-6-7 | | |
| Scale = 1:76.5 | | | 4-11-14 | | 7-0-13 | 0-1-4 5-0 0-3-8 | -9 | 5-2-7 | | 3-7-8 | 1-5-11 0-1-12 | 5-7-1 | | |
| Plate Offsets (2 | X, Y): [12:0-4-0 | ,Edge], [16 | 6:0-3-4,0-2-8] | | | | | | | | | • | | |
| Loading | | · · · | acing | 2-0-0 | | CSI | | DEFL | | in (loc) | l/defl L/d | PLATES | GRIP | |
| TCLL (roof) TCDL | | | ate Grip DOL mber DOL | 1.15 1.15 | | TC BC | 0.72 0.95 | Vert(LL) Vert(CT) | | .15 12-14 .27 12-14 | >999 240 >999 180 | MT20 MT18HS | 197/144 244/190 | |
| BCLL BCDL | | 0.0 Re 0.0 Co | p Stress Incr de | NO IRC2018 | /TPI2014 | WB Matrix-SH | 0.81 | Horz(CT |) 0. | .19 9 | n/a n/a | Weight: 203 lb | FT = 20% | |
| | | | | - | | roof live loads h | nave been o | onsidered | l for | | | | | |
| TOP CHORD BOT CHORD | 2x4 SP No.2 | Evcont* 18 | -16:2x3 SPF No.2 | 2. 2) | this design. Wind [.] ASCE | 7-16; Vult=115 | mph (3-sec | ond aust) | | | | | | |
| WEBS | 11-17:2x4 SP | 1650F 1.5 | | _, , | Vasd=91mp | h; TCDL=6.0psf t. II; Exp C; Enc | ; BCDL=6.0 | psf; h=35 | | | | | | |
| | No.2 | схсерт э | -0,21-1,10-7.284 | 35 | exterior zone | e and C-C Exter -9-7 to 22-4-13, | ior(2E) 4-1 | -5 to 9-9- | 7, | | | | | |
| BRACING TOP CHORD | Sheathed or 3 | -1-2 oc pu | rlins, except end | | 29-5-10, Inte | rior (1) 29-5-10 | to 32-7-3, I | Exterior(2 | | | | | | |
| | verticals, and 2 5-7. | 2-0-0 oc pı | urlins (4-9-6 max.) |): | exposed ;C- | -2-4 zone; cantil C for members | and forces | & MWFRS | 6 for | | | | | |
| BOT CHORD | Rigid ceiling d bracing, Exce | | lied or 10-0-0 oc | | DOL=1.60 | own; Lumber D0 | OL=1.60 pla | ate grip | | | | | | |
| WEBS | 6-0-0 oc braci 1 Row at midp | ng: 16-18,1 | 12-13. 6-14, 7-10, 5-14, | 3) 4) | | quate drainage t MT20 plates u | | | | | | | | |
| | | 4-15 | 5 | 5) | | as been designe ad nonconcurre | | | | | | | | |
| | Max Horiz 21= | 250 (LC 12 | | 6) 7) | Refer to gird | er(s) for truss to designed in acc | truss conn | ections. | | | | | | |
| | | | , 21=-193 (LC 12)), 21=1496 (LC 1) | | International | Residential Co | de sections | R502.11. | | | | | | |
| FORCES | (lb) - Maximun | | sion/Maximum | | Graphical pu | nd referenced s Irlin representat | ion does no | t depict th | | | | | | |
| TOP CHORD | Tension 5-6=-1302/307 | | | | or the orienta bottom chore | ation of the purli d. | in along the | top and/c | or | | | | | |
| | 7-8=-860/185, 1-21=-1451/21 | 12, 1-3=-16 | 30/224, | LO | AD CASE(S) | Standard | | | | | | CITAL | an | |
| BOT CHORD | 3-4=-2071/342 20-21=-257/99 | | 57/336 2/76, 18-19=-7/5 | 6, | | | | | | | | TEOFA | AISSO | |
| | 16-18=-488/0, 9-10=-4/11, 16 | | /57, 10-13=-93/5 ⁻ 1792. | 74, | | | | | | | A | S SCOTI | M. E. | |
| | 15-16=-380/18 12-14=-123/76 | 328, 14-15= | =-250/1449, | | | | | | | | H. | SEVI | | |
| WEBS | 5-15=-125/544 | 4, 6-14=-43 | 31/177, | | | | | | | | | att | Low | |
| | 10-11=-929/23 5-14=-320/143 | 3, 7-14=-18 | 39/1079, | _ | | | | | | | KA - | NUME | | |
| | 3-20=-788/216 | 6, 3-17=-34 | | Ď, | | | | | | | Ø | O PE-20010 | 1880/ 201 | |
| | 4-15=-581/242 17-20=-404/13 | | 74/1597, | | | | | | | | | CSSIONA | ENG | |
| NOTES | | | | | | | | | | | | all | | |
| | | | | | | | | | | | | April | 14,2023 | |



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

| | | | | | | | | | | | RELEASE | FOR CONSTRUCTION | |
|------------------------|---|----------------|---|--------------------|--------------------------------|--|--------------|------------------------|-------------------|----------------------|--|--|---|
| Job | | Truss | | Truss Ty | ре | | Qty | Ply | Roof - Osage | e Lot 55 | | ED FOR PLAN REVIEW | 7 |
| P230180-01 | I | A6 | | Piggyba | ick Base | | 8 | 1 | Job Reference | e (optional | LEE'S | OPMENT SERVICES 157758147 SUMMIT, MISSOURI | |
| Premier Building | Supply (Spring | nill, KS), S | Spring Hills, KS - 66083, | | | Run: 8.63 S Nov * | | | 19 2022 MiTek Ind | dustries, Inc. | | 08/2023 | |
| | | | | | | ID:WcRfdZXs?bG | 3GRhQ2QHd | Pbz1SCN-RfC | ?PsB70Hq3NSgF | qnL8w3uHX | GKWrCD01734zJC | <i>••••</i> | |
| | | ⊢ | 4-11-14 4-11-14 | <u>12-0</u> 7-0 | | 17-7-4 | | <u>22-8-7</u> 5-1-3 | | <u>9-10</u> 1-3 | <u>33-6-7</u> 5-8-13 | ——————————————————————————————————————— | |
| | | | | | 10 | 000 | 6x6= | 010 | 1.5x4 I | | ix6= | | |
| - - | 0-1-0-0-1-0-0-1-0-0-0-0-0-0-0-0-0-0-0-0 | | | | | 4 6 | 5 | 18 ⊠ ⊠ | 6 19 ⊠ ⊠ | _⊠, | 7 ₂₀ | | |
| | <u>6</u> <u>6</u> <u>6</u> | | | | | 3x4 = | | | 8 | 1 | | 5x5≈ | |
| | | | | Į | 12 5 17 - | 4 | | \ | | | | 8 - | |
| | | | 0.1 | | | | | \mathbb{N} | | | | | |
| 10-0-0 | 9-10-8 9-10-8 | | 3x4 = 3 | | | | | A / | | | | | |
| 10 | 9-1 | 4x6 ≠ | 2 | | | | | ľ. | | | | ⊠ 7-7-5 | |
| | ₊ | 1 | | | | | | | | | | | |
| | 2-8-0 | | | | | | | / | \parallel | | | | |
| | 5-1 | | | | | ₩ | | | | | | 9 | |
| | | 1.5x4 " | 15 | | | 14 | 13 | | 12 11 | 1 | 10 | 1.5x4 II | |
| | | | 6x6= | | | 5x5= | 3x4= | | 5x8= | | 4x6= | | |
| | | | 4-11-14 | 12-0 |)-11 | 17-6-0 | | 22-8-7 | 3x4= | 10-14 | 33-6-7 | | |
| Scale = 1:67 | | | 4-11-14 | 7-0 | | 5-5-5 | 1 | 5-2-7 | | 2-7 | 5-7-9 | | |
| Plate Offsets (| X, Y): [10:0-2 | -8,0-2-0 |], [14:0-2-8,0-3-0], [15 | 5:0-2-8,0-3 | -0] | | | | | | | | _ |
| Loading | | (psf) | Spacing | 2-0-0 | | CSI | | FL | | /defl L/d | PLATES | GRIP | |
| TCLL (roof) TCDL | | 25.0 10.0 | Plate Grip DOL Lumber DOL | 1.15 1.15 | | TC BC | 0.55 Ve | rt(CT) -0 | .18 14-15 > | 9999 240 9999 180 | MT20 | 197/144 | |
| BCLL BCDL | | 0.0 10.0 | Rep Stress Incr Code | NO IRC2018/ | /TPI2014 | WB Matrix-SH | 0.73 Ho | rz(CT) 0 | .05 9 | n/a n/a | Weight: 191 lb | FT = 20% | |
| LUMBER | | | | 2) | | 7-16; Vult=115mph | | | | | • | | |
| TOP CHORD BOT CHORD | 2x4 SP No.2 2x4 SP No.2 | | | | | h; TCDL=6.0psf; BC t. II; Exp C; Enclose | | | | | | | |
| WEBS BRACING | 2x3 SPF No | .2 *Exce | pt* 9-8,16-1:2x4 SP N | lo.2 | | e and C-C Exterior(2 -9-7 to 22-4-13, Ext | | | | | | | |
| TOP CHORD | | | c purlins, except end oc purlins (5-1-1 max. | | | erior (1) 29-5-10 to 3 -2-4 zone; cantileve | | | | | | | |
| | 5-7. | | |)- | | C for members and own; Lumber DOL= | | | | | | | |
| BOT CHORD | bracing. | - | applied or 9-1-8 oc | 3) | DOL=1.60 Provide adeo | quate drainage to p | revent wate | r pondina | | | | | |
| WEBS | 1 Row at mi | | 8-9, 6-12, 7-10, 5-12, 4-13 | | This truss ha | as been designed fo ad nonconcurrent w | r a 10.0 psf | bottom | | | | | |
| REACTIONS | (size) 9: Max Horiz 10 | | 16= Mechanical _C 12) | | Refer to gird | er(s) for truss to trus designed in accord | ss connecti | ons. | | | | | |
| | | | C 8), 16=-193 (LC 12) _C 1), 16=1496 (LC 1) |) ' | International | Residential Code s | ections R50 | 02.11.1 and | | | | | |
| FORCES | (lb) - Maxim | | pression/Maximum | | Graphical pu | nd referenced stand Irlin representation | does not de | pict the size | | | | | |
| TOP CHORD | Tension 1-3=-1633/2 | | | | or the orienta bottom chore | ation of the purlin al 1. | ong the top | and/or | | | | | |
| | 4-5=-1493/3 6-7=-1155/2 | 82, 7-8= | -857/185, | LO | AD CASE(S) | Standard | | | | | | | |
| BOT CHORD | | 98, 13-1 | 5=-413/1593, | | | | | | | | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | | |
| | 12-13=-224/ 9-10=-4/13 | 1298, 10 | 0-12=-118/738, | | | | | | | | OF N | MISSO | |
| WEBS | 5-13=-117/5 7-10=-847/2 | | | | | | | | | E | 1251 | No. | |
| | 7-12=-162/9 | 28, 8-10 |)=-188/1200, 4-14=0/2 =0/183, 4-13=-496/22 | | | | | | | a | SCOT | | |
| NOTES | 1-15=-175/1 | | | | | | | | | 8 * | The second secon | 1*8 | |
| NOTES | | | hann ann idean d fan | | | | | | | 8 | K a +++ | South and | |

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

> 1 oril April 14,2023





at the

PE-200101000 PE-2001018807

| | | | | | | | | | RELEASE FOR CONSTRUCTION |
|------------------------|----------------------------|------------------------------|--|---|--|------------------------|--------------|--------------------------------------|--|
| Job | | Truss | - | Truss Type | | Qty | Ply | Roof - Osage Lot 55 | AS NOTED FOR PLAN REVIEW |
| P230180-01 | | A7 | | Piggyback Base S | Supported Gable | 2 | 1 | Job Reference (optiona | DEVELOPMENT SERVICES 157758148 LEE'S SUMMIT, MISSOURI |
| Premier Building S | Supply (Springhi | ill, KS), Spring | Hills, KS - 66083, | | Run: 8.63 S Nov 19 2 | 1 2022 Print: 8. | .630 S Nov 1 | 9 2022 MiTek Industries, Inc. | |
| | | | | | ID:WcRfdZXs?bG3GI | RhQ2QHdPb | z1SCN-RfC | PsB70Hq3NSgPqnL8w3uIT> | |
| | | | | 17-7-4 | | | | 27-9-10 | 33-6-7 |
| | | | | 17-7-4 | | 2.1 | | 10-2-6 | 5-8-13 |
| Ģ | œ | | | | ŵ | 3x4= 1156 17 | 18 19 | 20 21 22 23 ⊠ ⊠ ⊠ | 3×4= 2457 |
| -0-0 -0-0 | 0-1-8 -1-8 | | | | °° 5 [™] 14 0° 13 | | | | 26 27 |
| | | | | 12 5 10 | 12 | | | | |
| | | | 4x6 🚅 | 9 | | | | | |
| 0 ~ | ~ | 3x6 II | 7 | 8 | | | | | |
| 10-0-0 9-10-8 | 9-10-8 M. | T18HS 5x8 II | 5 | | | | | | |
| | 0 | 1 ² | ¥ | | | | | | Z-7-5 |
| | Т | | | | | | | | |
| | 2-8-0 | | | | | | | | |
| ⊥ _ | ⊥ [°] ⊥ 56 | | | | | | | | <u> </u> |
| | | | 54 53 52 5 | 1 50 49 48 | 47 46 45 44 | 43 42 | 41 40 | | 34 33 32 31 |
| | M | ا T18HS 5x8 ا | I | | 5x5= | | | 3x4= | |
| | | 3,0 1 | | | 33- | -6-7 | | | |
| Scale = 1:65.9 | Y). [4.0-2-8 | 0-2-4] [16· | 0-2-0 Edge] [24·0- | 2-0,Edge], [47:0-2-8 | 80-3-01 | | | | |
| · · · · · | | | | | - | | | ··· (I==) [/=]={ [/=] | |
| Loading TCLL (roof) | | 25.0 Pla | ate Grip DOL 1 | 2-0-0 .15 | | .64 Vert(| LL) | in (loc) l/defl L/d n/a - n/a 999 | MT18HS 244/190 |
| TCDL BCLL | | | | .15 NO | | .57 Vert(.16 Horiz | , | n/a - n/a 999 .00 30 n/a n/a | |
| BCDL | | 10.0 Co | de I | RC2018/TPI2014 | Matrix-R | | | · · · · · · | Weight: 256 lb FT = 20% |
| LUMBER TOP CHORD | 2x4 SP No.2 | | | | Max Grav 30=54 (LC 1 32=120 (LC | | | | 9=-93/46, 21-37=-93/47, 22-36=-95/50, 5=-94/39, 25-34=-92/13, 26-33=-93/77, |
| | 2x4 SP No.2 2x4 SP No.2 | | -30:2x3 SPF No.2 | | 34=119 (LC 36=122 (LC | | | | 2=-94/94, 28-31=-101/85, 19-40=-93/47, 1=-95/50, 17-42=-94/39, 15-43=-93/16, |
| | 2x3 SPF No.2 | | | | 39=120 (LC 41=122 (LC | | | | 4=-94/51, 13-45=-93/58, 12-46=-93/71, 7=-93/43, 10-48=-93/71, 9-49=-93/54, |
| | | | rlins, except end | | 43=119 (LC 45=120 (LC | 25), 44=12 | 20 (LC 25), | 8-50 | =-93/57, 7-51=-93/57, 6-52=-93/73, =-93/91, 3-54=-94/47, 2-55=-154/434 |
| | 16-24. | | urlins (6-0-0 max.): | | 47=120 (LC 49=120 (LC | 1), 48=120 |) (LC 25), | NOTES | |
| | bracing. | | lied or 6-0-0 oc | | 51=120 (LC 53=120 (LC | 25), 52=12 | 20 (LC 1), | this design. | live loads have been considered for |
| WEBS | 1 Row at mid | | 89, 21-37, 22-36, 85, 25-34, 26-33, | | 55=127 (LC | 25), 56=67 | 76 (LC 12) | Vasd=91mph; T0 | 6; Vult=115mph (3-second gust) CDL=6.0psf; BCDL=6.0psf; h=35ft; |
| | | | 32, 19-40, 18-41, 2, 15-43, 14-44, | FORCES | (lb) - Maximum Compr Tension | ession/Max | kimum | | Exp C; Enclosed; MWFRS (envelope) d C-C Corner(3E) 4-11-5 to 10-2-0, |
| REACTIONS (| size) 30 | 13-4 =33-6-7_31 | 15 =33-6-7, 32=33-6-7 | TOP CHORD | 1-56=-379/106, 1-2=-3 3-5=-207/67, 5-6=-182 | | | | 2-0 to 22-4-13, Corner(3R) 22-4-13 to 2N) 27-6-0 to 32-7-3, Corner(3R) 32-7-3 |
| | 33 | 3=33-6-7, 34 | =33-6-7, 35=33-6-7 =33-6-7, 39=33-6-7 | 7, | 7-8=-131/38, 8-9=-105 10-11=-52/48, 11-12=- | , | , | | or(2N) 37-7-3 to 38-2-12 zone; d right exposed ;C-C for members and |
| | 40 | =33-6-7, 41 | =33-6-7, 42=33-6-7 | , , | 13-14=-32/124, 14-15= 15-16=-42/152, 16-17= | | | forces & MWFRS DOL=1.60 plate | S for reactions shown; Lumber grip DOL=1.60 |
| | 46 | 5=33-6-7, 47 | =33-6-7, 45=33-6-7 =33-6-7, 48=33-6-7 | 7, | 17-18=-38/149, 18-19= 19-20=-38/149, 20-21= | =-38/149, | | | |
| | 52 | 2=33-6-7, 53 | =33-6-7, 51=33-6-7 =33-6-7, 54=33-6-7 | | 21-22=-38/149, 22-23= 23-24=-39/150, 24-25= | =-38/149, | | | and a second |
| Ν | 55 Max Horiz 56 | 5=33-6-7, 56 5=250 (LC 12 | | | 25-26=-41/147, 26-27= | =-32/111, | 0. 40/50 | | TE OF MISSO |
| Ν | | | 2), 31=-25 (LC 13), 3), 33=-29 (LC 13), | BOT CHORD | 27-28=-22/69, 28-29=- 55-56=-5/2, 54-55=-5/2 | 2, 53-54=-5 | 5/2, | E | STATE OF MISSOL |
| | 35 | i=-19 (LC 8), | , 36=-26 (LC 9), , 39=-24 (LC 8), | | 52-53=-5/2, 51-52=-5/2 49-50=-5/2, 48-49=-5/2 | | | ,8 | SEVIER |
| | 40 | , 41=-27 (LC 9), | | 45-46=-6/2, 44-45=-6/2, 43-44=-6/2, 42-43=-6/2, 41-42=-6/2, 40-41=-6/2, | | | | | |
| | 45 | =-33 (LC 12 | , 44=-31 (LC 12), 2), 46=-46 (LC 12), | | 39-40=-6/2, 37-39=-6/2 35-36=-6/2, 34-35=-6/2 | 2, 36-37=-6 | 6/2, | | NUMBER |
| | 49 |)=-31 (LC 12 | 2), 48=-47 (LC 12), 2), 50=-33 (LC 12), | | 32-33=-6/2, 31-32=-6/2 | | | Ø | PE-2001018807 |
| | | | 2), 52=-28 (LC 12), 2), 55=-734 (LC 12) | | | | | | CSSIONAL ENCID |
| | | | | | | | | | COURSES AND |

April 14,2023



Continued on page 2 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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 incorporate this design into the overall fabrication, storage, delivery, erection and bracing of trusses and truss systems, see Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

| | | | | | RELEASE FOR CONSTRUCTION |
|--|-------------------------------------|------------------|-------------|------------------------------|---|
| Job Truss | Truss Type | Qty | Ply | Roof - Osage Lot 55 | AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 157758148 |
| P230180-01 A7 | Piggyback Base Supported Gable | 2 | 1 | Job Reference (optional | |
| Premier Building Supply (Springhill KS) Spring | a Hills KS - 66083 Run: 8.63 S. Nov | 10 2022 Print: 8 | 630 S Nov 1 | 9 2022 MiTek Industries Inc. | |

ding Supply (Springhill, KS), Spring Hills, KS - 66

- 3) 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. 4)
- All plates are MT20 plates unless otherwise indicated. 5)
- 6) All plates are 1.5x4 MT20 unless otherwise indicated.
- 7) Gable requires continuous bottom chord bearing.
- 8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web). Gable studs spaced at 1-4-0 oc. 9)
- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

n: 8 63 S Nov 19 2022 Print: 8 ID:WcRfdZXs?bG3GRhQ2QHdPbz1SCN-RfC?PsB70Hq3NSgPqnL8w3uITX_GKWrCbd734zdC++



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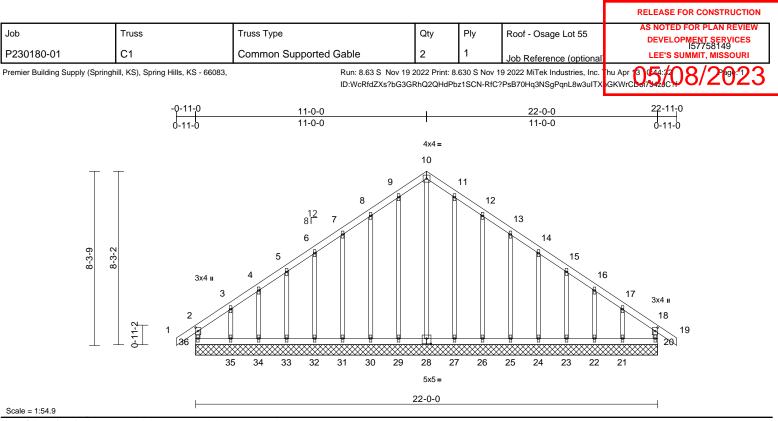


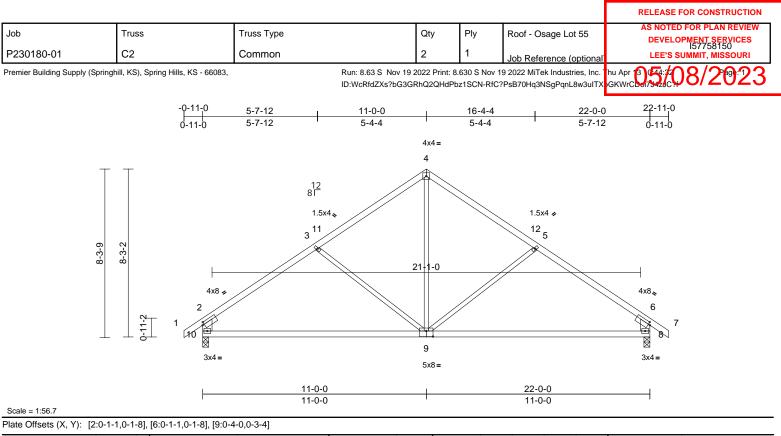
Plate Offsets (X, Y): [2:0-2-0,0-1-4], [18:0-2-0,0-1-4], [28:0-2-8,0-3-0]

| Fiale Olisels | (^, 1). [2.0-2-0,0-1-4], | [10.0-2-0,0-1-4], [20 | .0-2-8,0-3-0] | | | | | | | | | |
|--|---|--|---|---|--|---|--|--|---|---|---|---|
| Loading TCLL (roof) TCDL BCLL BCDL | (psf) 25.0 10.0 0.0 10.0 | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code | 1-11-4 1.15 1.15 NO IRC2018/TPI201 | CSI TC BC WB 4 Matrix-R | 0.14 0.09 0.36 | DEFL Vert(LL) Vert(CT) Horz(CT) | in n/a n/a 0.00 | (loc) - - 20 | l/defl n/a n/a n/a | L/d 999 999 n/a | PLATES MT20 Weight: 130 lb | GRIP 197/144 FT = 20% |
| LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS | 2x4 SP No.2 2x3 SPF No.2 2x3 SPF No.2 Sheathed or 6-0-0 of verticals. Rigid ceiling directly bracing. (size) 20=22-0-(23=22-0-(23=22-0-(32=22-0-(35=22-0-(35=22-0-(35=22-0-(35=22-0-(29=2-0-(29=2 | · / | BOT CHO 0-0, 0-0, 0-0, 0-0, 0-0, 0-0, WEBS 3), 3), 3), 3), 3), 3), 3), 3), | 2-36=-167/84, 1-2= 3-4=-115/114, 4-5= 6-7=-92/171, 7-8=- 9-10=-155/288, 10 11-12=-144/266, 1: 13-14=-92/171, 14 15-16=-72/98, 16-1 17-18=-115/106, 1: 35-36=-105/117, 3 33-34=-105/117, 3 29-30=-105/117, 2 26-27=-105/117, 2 20-21=-105/117, 2 20-21=-105/117, 2 20-21=-105/117, 2 20-21=-105/117, 10-28=-237/92, 9-2 7-31=-95/63, 6-32= 4-34=-93/74, 3-35= 12-26=-97/77, 13-2 15-23=-96/70, 16-2 | 108/11 116/215 -11=-15 2-13=-11 1-15=-68, 7=-80/8 3-19=0/3 4-35=-11 2-33=-11 2-31=-11 7-29=-11 5-26=-11 3-24=-11 1-22=-11 9=-100, 95/63, 121/10 (5=-95/6) | 6, 5-6=-95/14 , 8-9=-144/26 5/288, 16/215, 128, 2, 18, 18-20=-14 05/117, 05/117, 05/117, 05/117, 05/117, 05/117, 05/117, 34, 8-30=-96/70, 4, 11-27=-96/ 4, 17-21=-11; | 11, 16, 6/68 /77, (32, (63, 3/99 | f) Tru bra bra 7) Gal 8) This cho 9) Pro bea join lb u join lb u join lb u at ja 10) This Inte R80 | ss to be ced aga ole studs s truss h rd live k vide me ring pla t 36, 69 plift at jc t 32, 52 plift at jc t 26, 48 plift at jc obint 21. s truss is rnationa | fully sinst lat sinst lat s space bad not chanic te capa lb uplit bint 30, lb uplit bint 35, lb uplit bint 23, s desig al Resid and ref | eral movement (i. ed at 1-4-0 oc. en designed for a nconcurrent with al connection (by able of withstandi ft at joint 20, 19 lb , 48 lb uplift at join ft at joint 33, 26 lb , 16 lb uplift at join ft at joint 25, 47 lb , 29 lb uplift at join uned in accordance dential Code sect ferenced standard | e face or securely e. diagonal web). 10.0 psf bottom any other live loads. others) of truss to ng 103 lb uplift at o uplift at joint 29, 58 nt 31, 47 lb uplift at o uplift at joint 34, 127 nt 27, 59 lb uplift at o uplift at joint 24, 52 nt 22 and 116 lb uplift ee with the 2018 ions R502.11.1 and |
| FORCES | 33=-52 (L 35=-127 (22=118 (l 24=121 (l 26=123 (l 28=202 (l 30=122 (l 32=120 (l | C 12), 34=-26 (LC 12 LC 12), 36=-103 (LC C 19), 21=168 (LC 2 C 26), 23=124 (LC 2 C 20), 25=121 (LC 2 C 20), 27=122 (LC 2 C 20), 27=122 (LC 1 C 19), 31=121 (LC 1 C 19), 33=125 (LC 1 C 25), 35=184 (LC 1 C 20) | 2), this de 8) 2) Wind: A (0), Vasd=1 (0), Ke=0.5 (0), exterio (0), Exterio (0), Exterio (0), Exterio (0), Exterio (0), Ieft and (0), reaction (0), expose (0), reaction (0), expose (0), reaction (0), Truss (0), F (0), See St (0), See | AŠCE 7-16; Vult=115mp 91mph; TCDL=6.0psf; B 16; Cat. II; Exp C; Enclos r zone and C-C Corner((2N) 4-4-0 to 11-0-0, C Exterior(2N) 16-0-0 to 2 right exposed ; end ver d;C-C for members and ns shown; Lumber DOL= | CDL=6.0 ed; MW 3E) -0-1 prner(3F 2-11-0 tical left forces 8 =1.60 pl in the p d (norm nd Deta signer as | Dipsf; h=35ft; FRS (envelop I-0 to 4-4-0, t) 11-0-0 to zone; cantilev and right & MWFRS for ate grip ane of the tru al to the face) Is as applicat to en ANSI/TP | ss , ble, Pl 1. | | | | STATE OF M SCOT SEVI NUM PE-20010 FE-20010 | ER Senter |

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April 14,2023



| | | - | | | | | | | | | | |
|--------------|--------------------------------|---|--|----------------------|--------|--------------|-------|-------|--------|-----|---------------|----------|
| 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 | 0.82 | Vert(LL) | -0.24 | 8-9 | >999 | 240 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.78 | Vert(CT) | -0.48 | 8-9 | >535 | 180 | | |
| BCLL | 0.0 | Rep Stress Incr | NO | WB | 0.35 | Horz(CT) | 0.03 | 8 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-SH | | | | | | | Weight: 96 lb | FT = 20% |
| LUMBER | | | 5) This truss is | designed in accorda | nce w | ith the 2018 | | | | | | |
| TOP CHORD | 2x4 SP 1650F 1.5E | | | Residential Code se | | | ind | | | | | |
| BOT CHORD | 2x4 SP 1650F 1.5E | | R802.10.2 a | nd referenced standa | ard AN | ISI/TPI 1. | | | | | | |
| WEBS | 2x3 SPF No.2 *Exce | ept* 10-2.8-6:2x6 SP | LOAD CASE(S) | Standard | | | | | | | | |
| | 2400F 2.0E | pr 10 2,0 0.2/0 01 | | etandara | | | | | | | | |
| BRACING | | | | | | | | | | | | |
| TOP CHORD | Sheathed or 5-0-8 c verticals. | oc purlins, except end | d | | | | | | | | | |
| BOT CHORD | | applied or 10-0-0 oc | | | | | | | | | | |
| REACTIONS | (size) 8=0-3-8, | 10=0-3-8 | | | | | | | | | | |
| | Max Horiz 10=-245 (| (LC 10) | | | | | | | | | | |
| | Max Uplift 8=-149 (L | C 13), 10=-149 (LC | 12) | | | | | | | | | |
| | Max Grav 8=1050 (I | LC 1), 10=1050 (LC 1 | 1) | | | | | | | | | |
| FORCES | (lb) - Maximum Corr | npression/Maximum | | | | | | | | | | |
| | Tension | | | | | | | | | | | |
| TOP CHORD | 1-2=0/44, 2-3=-1209 | 9/214, 3-4=-927/200, | | | | | | | | | | |
| | | 1209/214, 6-7=0/44, | | | | | | | | | | |
| | 2-10=-937/221, 6-8= | =-937/221 | | | | | | | | | | |
| BOT CHORD | 8-10=-176/924 | | | | | | | | | | | |
| WEBS | 4-9=-67/539, 5-9=-2 | 94/246, 3-9=-294/24 | 6 | | | | | | | | | |
| NOTES | | | | | | | | | | | | |
| 1) Unbalance | ed roof live loads have | been considered for | | | | | | | | | | TO |
| this desigr | | | | | | | | | | | OFI | MIG |
| | CE 7-16; Vult=115mph | | | | | | | | | | Fre | A Scin |
| | nph; TCDL=6.0psf; BC | | `````````````````````````````````````` | | | | | | | 6 | STATE OF M | N.S.Y |
| , | Cat. II; Exp C; Enclose | · · · · | e) | | | | | | | R | SCOT | TM. VEN |
| exterior zo | ne and C-C Exterior(2 | (E) - (U - 1) + (U + 1) | | | | | | | | И | 1 | |

exterior zone and C-C Exterior(2E) -0-11-0 to 4-1-0, Interior (1) 4-1-0 to 11-0-0, Exterior(2R) 11-0-0 to 16-0-0, Interior (1) 16-0-0 to 22-11-0 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 This truss has been designed for a 10.0 psf bottom

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

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 149 lb uplift at joint 10 and 149 lb uplift at joint 8.

OFFESSIONAL E April 14,2023

NUMBER

PE-2001018807





| | | | | | | | RELEASE FOR CONSTRUCTION |
|----------------------------|---------------------------------------|---|-----------------|-----------|------------------------|---|---|
| Job | Truss | Truss Type | | Qty | Ply | Roof - Osage Lot 55 | AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 157758151 |
| P230180-01 | C3 | Common | | 9 | 1 | Job Reference (optional | |
| Premier Building Supply (S | Springhill, KS), Spring Hills, KS - 6 | 5083, | | | | 19 2022 MiTek Industries, Inc. ?PsB70Hq3NSgPqnL8w3uITX | |
| | | 5-7-12 5-7-12 | 11-0-0 5-4-4 | - | <u>16-4-4</u> 5-4-4 | 22-0-0 | |
| | | 5-7-12 | | 4x4 = | ə-4-4 | 5-7-12 | |
| | | | | 3 | | | |
| | ດີ ເດື່ອ ອີ 5x5 = 1 | 8 ¹² 1.5x 2 ⁹ | | -1-0 | | 1.5x4 ¢ | 5x5 II 5 |
| | 2-1 | | | 7 5x8= | | | 6 3x6= |
| Scale = 1:56.7 | ├ ── | <u>11-0-0</u> 11-0-0 | | | | 22-0-0 11-0-0 | |

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

| 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 | 0.95 | Vert(LL) | -0.24 | 7-8 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.75 | Vert(CT) | -0.48 | 7-8 | >535 | 180 | | |
| BCLL | 0.0 | Rep Stress Incr | NO | WB | 0.37 | Horz(CT) | 0.03 | 6 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-SH | | | | | | | Weight: 92 lb | FT = 20% |
| LUMBER TOP CHORD BOT CHORD WEBS | IORD 2x4 SP No.2 | | Ínternational | designed in acc Residential Co nd referenced s Standard | de sections | R502.11.1 | | | | | | |

| | 2400F 2.0 | DE |
|-----------|------------|-----------------------------------|
| BRACING | | |
| TOP CHORD | Sheathed | l or 3-7-9 oc purlins, except end |
| | verticals. | |
| BOT CHORD | Rigid ceil | ing directly applied or 10-0-0 oc |
| | bracing. | |
| REACTIONS | (size) | 6=0-3-8, 8=0-3-8 |
| | Max Horiz | 8=224 (LC 11) |
| | Max Uplift | 6=-121 (LC 13), 8=-121 (LC 12) |

- Max Grav 6=969 (LC 1), 8=969 (LC 1) FORCES (lb) - Maximum Compression/Maximum Tension TOP CHORD 1-2=-1217/216, 2-3=-927/200, 3-4=-927/200, 4-5=-1217/216, 1-8=-845/173, 5-6=-845/173
- BOT CHORD 6-8=-192/928 WEBS 3-7=-67/540, 4-7=-314/251, 2-7=-314/251 NOTES
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-2-12 to 5-6-5, Interior (1) 5-6-5 to 11-0-0, Exterior(2R) 11-0-0 to 16-0-0, Interior (1) 16-0-0 to 21-9-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom 3) chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to 4) bearing plate capable of withstanding 121 lb uplift at joint 8 and 121 lb uplift at joint 6.

LOAD CASE(S) Standard



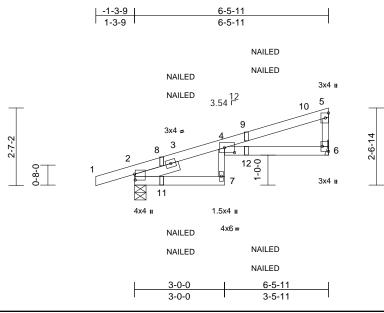
April 14,2023



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| | | | | | | RELEASE FOR CONSTRUCTION |
|------------|-------|---------------------|-----|------|-------------------------|-----------------------------------|
| Job | Truss | Truss Type | Qty | Plv | Roof - Osage Lot 55 | AS NOTED FOR PLAN REVIEW |
| 305 | 11035 | Truss Type | Quy | i iy | Rool - Osage Lot 55 | DEVELOPMENT SERVICES 157758152 |
| P230180-01 | CJ1 | Diagonal Hip Girder | 4 | 1 | Job Reference (optional | |
| | | | | | | |

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. thu Apr 3 44:508/2023 ID:WcRfdZxs?bG3GRhQ2QHdPbz1SCN-RfC?PsB70Hq3NSgPqnL8w3uITX GKWrC5073426CF



Scale = 1:38.5

Plate Offsets (X, Y): [2:0-2-6,0-0-4], [4:0-4-0,0-2-0], [6:Edge,0-2-8]

| | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | T | | | | | | | | | | 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 | | TC | 0.73 | Vert(LL) | -0.16 | 7 | >492 | 240 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | | BC | 0.64 | Vert(CT) | -0.22 | 7 | >347 | 180 | | |
| BCLL | 0.0 | Rep Stress Incr | NO | | WB | 0.00 | Horz(CT) | 0.11 | 6 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018 | 3/TPI2014 | Matrix-R | | | | | | | Weight: 26 lb | FT = 20% |
| LUMBER | | | LO | AD CASE(S) | Standard | | | | | | | | |
| TOP CHORD | 2x4 SP 1650F 1.5E | | 1) | Dead + Roo | of Live (balanced) |): Lumber | Increase=1. | 15, | | | | | |
| BOT CHORD | 2x4 SP No.2 *Excep | ot* 7-4:2x3 SPF No.2 | | Plate Increa | ase=1.15 | | | | | | | | |
| WEBS | 2x3 SPF No.2 | | | Uniform Loa | ads (lb/ft) | | | | | | | | |
| SLIDER | | | | | | | | | | | | | |
| BRACING | | | | | ed Loads (lb) | | | | | | | | |
| TOP CHORD | Sheathed or 6-0-0 o | oc purlins, except er | d | | 38 (F=44, B=44), | 11=52 (F: | =26, B=26), | | | | | | |
| | verticals. | | | 12=-38 (| F=-19, B=-19) | | | | | | | | |
| BOT CHORD | OT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. | | | | | | | | | | | | |
| REACTIONS | (size) 2=0-4-9, 6 | 6= Mechanical | | | | | | | | | | | |
| | Max Horiz 2=85 (LC | 31) | | | | | | | | | | | |
| | Max Uplift 2=-106 (L | .C 8), 6=-90 (LC 12) | | | | | | | | | | | |
| | Max Grav 2=282 (L0 | C 1), 6=280 (LC 1) | | | | | | | | | | | |
| FORCES | (lb) - Maximum Com Tension | pression/Maximum | | | | | | | | | | | |
| TOP CHORD | 1-2=0/1, 2-4=-217/5 5-6=-163/170 | 0, 4-5=-104/51, | | | | | | | | | | | |
| BOT CHORD | 2-7=-15/17, 4-7=-29 | /61, 4-6=-90/91 | | | | | | | | | | | |
| NOTES | | | | | | | | | | | | | |
| 1) Wind: ASC | CE 7-16; Vult=115mph | (3-second gust) | | | | | | | | | | | |
| Vasd=91m | nph; TCDL=6.0psf; BC | DL=6.0psf; h=35ft; | | | | | | | | | | | |
| | Cat. II; Exp C; Enclose | | be) | | | | | | | | | | an |
| | one and C-C Corner (3 | | | | | | | | | | | OFI | MIG |
| | R) 5-9-5 to 6-4-7 zone | | | | | | | | | | | TEOFI | JSS SCIM |
| | end vertical left and rig | | | | | | | | | | 6 | 122 | |
| members | and forces & MWFRS | for reactions shown | | | | | | | | | n | STOT | TM |

- members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.602) This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads.3) Refer to girder(s) for truss to truss connections.
- 4) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 5) "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).



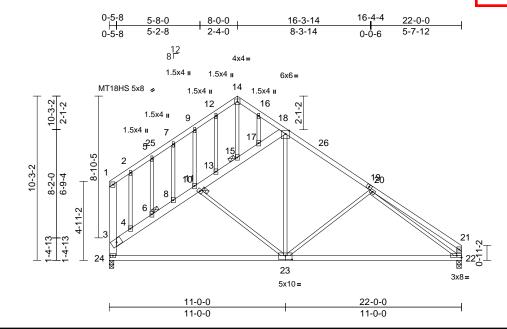
April 14,2023



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| | | | | | | RELEASE FOR CONSTRUCTION |
|------------|-------|-------------------------|-----|-----|-------------------------|---|
| Job | Truss | Truss Type | Qty | Ply | Roof - Osage Lot 55 | AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 157758153 |
| P230180-01 | D1 | Common Structural Gable | 1 | 1 | Job Reference (optional | |

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Thu Apr 354:308/2922 ID:WcRfdZXs?bG3GRhQ2QHdPbz1SCN-RfC?PsB70Hq3NSgPqnL8w3uITX GKWrCbol75421C



| Loading (psf) TCLL (roof) 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0 | Plate Grip DOL1Lumber DOL1Rep Stress IncrN | 1-11-4 1.15 1.15 NO IRC2018/TP | PI2014 | CSI TC BC WB Matrix-SH | 0.56 0.81 0.92 | DEFL Vert(LL) Vert(CT) Horz(CT) | in -0.25 -0.51 0.03 | (loc) 22-23 22-23 22 | l/defl >999 >510 n/a | L/d 240 180 n/a | PLATES MT20 MT18HS Weight: 146 lb | GRIP 197/144 197/144 FT = 20% |
|---|---|---|---|------------------------------------|---|--|--|-------------------------------|-------------------------------|--------------------------|---|---|
| BOT CHORD 2x4 SP 1650F 1.5E WEBS 2x3 SPF No.2 *Exce 22-21:2x4 SP No.2 22-21:2x4 SP No.2 BRACING TOP CHORD TOP CHORD Sheathed or 5-10-1 or verticals. BOT CHORD Rigid ceiling directly bracing. JOINTS 1 Brace at Jt(s): 11, 15, 6 REACTIONS (size) 22=0-3-8, Max Horiz 24=-325 (IMAX Grav 22=943 (L FORCES (lb) - Maximum Com Tension TOP CHORD 1-2=-102/94, 2-5=-11 7-9=-136/180, 9-12= 12-14=-180/260, 14-16-18=-185/234, 18-16 | LC 8) LC 13), 24=-120 (LC 13 .C 1), 24=943 (LC 1) pression/Maximum 07/115, 5-7=-120/146, 161/221, .16=-186/268, 20=-933/198, .=-846/201, 1-3=-94/79, .=-1189/283, 1074/219, .11=-985/171, .15=-917/131, .18=-795/162 | Va Ke ext Int rig for Lu 3) Tr on se or 4) All 5) All 5) All 5) All 5) All 5) All 6) Tr 6) Tr 6) Tr 6) Tr 8) Th ch ch 8) Th nt R8 10) Gr or bo | asd=91mph e=0.96; Cat. (terior zone terior (1) 5 terior (1) 13 ght exposed r members a: unber DOL= russ design hly. For stud es Standard c consult qua l plates are uss to be fu aced agains able studs s his truss has hord live load his truss is c ternational f 802.10.2 an raphical pur | | CDL=6.0 (2E) 0-2 (2E) | Opsf; h=35ft; FRS (envelop -12 to 5-4-0, tilever left and t exposed;C- reactions sho) lane of the tru al to the face ils as applicat s per ANSI/TF wise indicate se indicated. the or securely liagonal web) 0 psf bottom other live loa ith the 2018 s R502.11.1 a SI/TP1 1. ot depict the s | -0, d -C -C -own; uss), bile, -1. d. - d. - | | | | STATE OF M SCOTT SEVI DE-20010 PE-20010 | ER BER 018807 |

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

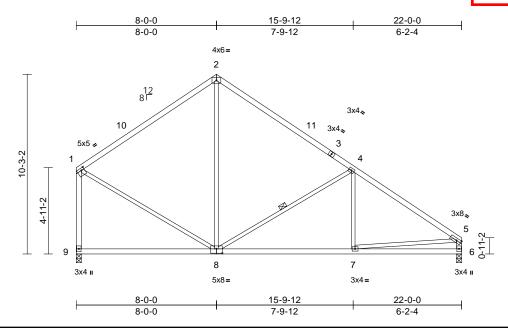
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April 14,2023

| | | | | | | RELEASE FOR CONSTRUCTION |
|------------|-------|------------|------|------|--------------------------|-----------------------------------|
| Job | Truss | Truss Type | Qty | Plv | Roof - Osage Lot 55 | AS NOTED FOR PLAN REVIEW |
| 000 | 11035 | | Gily | i iy | Rool - Osage Lot 55 | DEVELOPMENT SERVICES 157758154 |
| P230180-01 | D2 | Common | 8 | 1 | Job Reference (optional) | |
| | | | | | | |

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Thu Apr 344:408/2022 MiTek Industries, Inc. Thu Apr 344:408/2022 MiTek Industries, Inc. Thu Apr 344:408/2022 MiTek Industries, Inc. The Apr 344:408/2022 MiTek Industrie



Scale = 1:65.8

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

| 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 | 0.91 | Vert(LL) | -0.09 | 8-9 | >999 | 240 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.69 | Vert(CT) | -0.19 | 8-9 | >999 | 180 | | |
| BCLL | 0.0 | Rep Stress Incr | NO | WB | 0.45 | Horz(CT) | 0.02 | 6 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-SH | | | | | | | Weight: 111 lb | FT = 20% |

LUMBER

| TOP CHORD | 2x4 SP 1650F 1.5E *Except* 2-3:2x4 SP No.2 |
|-----------|---|
| BOT CHORD | 2x4 SP No.2 |
| WEBS | 2x3 SPF No.2 *Except* 9-1,6-5:2x4 SP No.2 |
| BRACING | |
| TOP CHORD | Sheathed or 4-5-7 oc purlins, except end verticals. |
| BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing. |
| WEBS | 1 Row at midpt 4-8 |
| REACTIONS | (size) 6=0-3-8, 9=0-3-8 |
| | Max Horiz 9=-334 (LC 8) |
| | Max Linkth C 400 (LC 40) 0 400 (LC 40) |

| | Max Uplift 6=-129 (LC 13), 9=-123 (LC 13) |
|-----------|--|
| | Max Grav 6=977 (LC 1), 9=977 (LC 1) |
| FORCES | (lb) - Maximum Compression/Maximum |
| | Tension |
| TOP CHORD | 1-2=-782/207, 2-4=-795/221, 4-5=-1283/189, |
| | 1-9=-907/189, 5-6=-921/159 |
| BOT CHORD | 7-9=-239/990, 6-7=-51/190 |
| WEBS | 2-8=-21/325, 1-8=-73/588, 5-7=-56/806, |
| | 4-8=-594/281, 4-7=0/222 |

NOTES

- Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-12 to 5-1-12, Interior (1) 5-1-12 to 8-0-0, Exterior(2R) 8-0-0 to 13-0-0, Interior (1) 13-0-0 to 21-10-4 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

4) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and

R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



April 14,2023



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| | | | | | | | | | | | | RELEAS | SE FOR CONSTRUCTION | N |
|---------------------|--|---|--------------|-----------------|---|--------------|----------------------|----------------|----------------|-----------|------------|---------------|---|----------|
| Job | Truss | 3 | Truss Ty | /pe | | Qty | Ply | Ro | oof - Osa | ge Lot 55 | 5 | | TED FOR PLAN REVIEW | |
| P230180-0 | 1 E1 | | Hip Giro | der | | 2 | 1 | | h Roforo | nce (onti | ionali | LEE' | ELOPMENT SERVICES 157758155 'S SUMMIT, MISSOURI | |
| Premier Building | Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Thu Apr 6 44 (19) (20) (20) (20) (20) (20) (20) (20) (20 | | | | | | | | | | | | | |
| | | | | | ID:WcRfdZXs?b0 | G3GRhQ20 | QHdPbz1SCN | I-RfC?PsB | 70Hq3NS | gPqnL8w3 | BulTX | GKWrCD-175420 | | <u> </u> |
| | | -0-1 | 1-0 | 4-8-0 |) 1 | | 8-8-0 | | ı | 13 | 8-4-0 | .1 | 14-3-0 | |
| | | 0-1 | 1-0 | 4-8-0 | | | 4-0-0 | | | | -8-0 | ——— | D-11-0 | |
| | | | | | | | | | | | | | | |
| | | | | | NAILI | ED | NAILED | NAIL | .ED | | | | | |
| | | | | | 6x6 | 6 = | | 5 | ix5 = | | | | | |
| | -10 | | | 12 5 Г | ° 13 4 | | a ¹⁴ 🖂 | 1 | 5 15 | | | | | |
| | 0-1-0 | | | | -0 | | | <u> </u> | | | | | | |
| | 4 1 1 | | | 3 | | | | | | \geq | _6 | | | |
| | 2-9-14 2-5-11 2-5-11 | | 2 | | <u> </u> | | 16 | | 10 | | - | | 7 | |
| | | | Jo - | 12 | 9 |) " | 10 | | x6 = | 9 | , 🖻 | - P | 8 | |
| | — | | | | | - | | - | | 5 | x10 = | X | \sim | |
| | | | 5x5 = | 3x4 u | Spec | al | NAILED | Spe | cial | | 3x4 | 5x5 | = | |
| | | | | 3x4 II | | | | | | | Зx | :4 u | | |
| | | | | 5x1 | 0 = | | | | | | | | | |
| | | | 2 | -2-0 | 4-6-12 | | 8-9-4 | | 1 | 1-2-0 | | 13-4-0 | | |
| Scale = 1:36.8 | | | 2 | -2-0 | 2-4-12 | | 4-2-8 | | 2 | -4-12 | I | 2-2-0 | | |
| Plate Offsets (| (X, Y): [3:0-8-1,Edge |], [3:0-0-14,0-1-15], [5: | 0-2-8,0-2- | 4], [6:0-8-1,Ec | lge], [6:0-0-14,0-1 | -15], [10: | 0-2-8,0-4-4] | | | | | | | |
| Loading | (psf) | Spacing | 2-0-0 | | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP | |
| TCLL (roof) TCDL | 25.0 10.0 | Plate Grip DOL Lumber DOL | 1.15 1.15 | | TC BC | 0.72 0.56 | Vert(LL) Vert(CT) | -0.16 -0.27 | 10-11 10-11 | | 240 180 | MT20 | 197/144 | |
| BCLL | 0.0 | Rep Stress Incr | NO | | WB | | Horz(CT) | 0.25 | 7 | n/a | n/a | M . L . TO II | | |
| BCDL | 10.0 | Code | - | /TPI2014 | Matrix-SH | | | - | | | | Weight: 70 lb | FT = 20% | |
| LUMBER TOP CHORD | 2x6 SP 2400F 2.0E | E *Except* 4-5:2x4 SP | 4) | chord live loa | s been designed t ad nonconcurrent | with any o | other live loa | | | | | | | |
| BOT CHORD | No.2 5) This truss is designed in accordance with the 2018 | | | | | | | | | | | | | |
| WEBS | No.2, 3-6:2x6 SP 2400F 2.0E R802.10.2 and referenced standard ANSI/TPI 1. | | | | | | | | | | | | | |
| BRACING | BRACING or the orientation of the purlin along the top and/or | | | | | | | | | | | | | |
| TOP CHORD | 2-0-0 oc purlins (2- | 11 oc purlins, except ·9-8 max.): 4-5. | 7) | "NAILED" ind | dicates Girder: 3-1 | 0d (0.148 | 3" x 3") toe- | nails | | | | | | |
| BOT CHORD | Rigid ceiling directl bracing. | y applied or 9-11-10 oc | 8) | | other connection | | | | | | | | | |
| REACTIONS | (size) 2=0-3-8, | 7=0-3-8 | | | icient to support of 128 lb up at 4-8-0 | | | | | | | | | |
| | Max Horiz 2=-42 (L Max Uplift 2=-288 (| .C 17) [LC 12), 7=-288 (LC 13 |) | 128 lb up at | 8-7-4 on bottom of | hord. Th | e design/ | | | | | | | |
| | Max Grav 2=1079 (LC 1), 7=1079 (LC 1) Max Grav 2=1079 (LC 1), 7=1079 (LC 1) Max Grav 2=1079 (LC 1), 7=1079 (LC 1) Selection of such connection device(s) is the responsibility of others. | | | | | | | | | | | | | |

 In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

FORCES

TOP CHORD

BOT CHORD

this design.

grip DOL=1.60

WEBS

NOTES

1)

2)

3)

Tension

(lb) - Maximum Compression/Maximum

1-2=0/8, 2-3=-590/228, 3-4=-3520/1180,

2-12=-9/33, 3-12=-24/119, 3-11=-1031/3339, 10-11=-1012/3269, 6-10=-976/3197,

4-11=-205/748, 4-10=-235/90, 5-10=-187/704

4-5=-3132/1082, 5-6=-3372/1123,

6-7=-590/227, 7-8=0/8

6-9=-24/119, 7-9=-9/33

Unbalanced roof live loads have been considered for

Wind: ASCE 7-16; Vult=115mph (3-second gust)

Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-11-0 to 4-1-0, Interior (1) 4-1-0 to 4-8-0, Exterior(2E) 4-8-0 to 14-3-0

and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate

Provide adequate drainage to prevent water ponding.

zone; cantilever left and right exposed ; end vertical left

 Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (lb/ft)

Vert: 1-3=-70, 3-4=-70, 4-5=-70, 5-6=-70, 6-8=-70, 2-12=-20, 3-6=-20, 7-9=-20

- Concentrated Loads (lb)
- Vert: 4=-52 (B), 5=-52 (B), 11=-310 (B), 10=-310 (B), 14=-52 (B), 16=-59 (B)



SEFORE USE. ponent, not o the overall

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| | | | | | | RELEASE FOR CONSTRUCTION | | |
|---|--------------------------------------|---|--------------------------------|----------------------------|---|---|--|--|
| Job | Truss | Truss Type | Qty | Ply | Roof - Osage Lot 55 | AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 157758156 | | |
| P230180-01 | E2 | Roof Special | Roof Special 2 1 Job Reference | | | | | |
| Premier Building Supply (Spring | hill, KS), Spring Hills, KS - 66083, | Run: 8.63 S Nov 19 ID:WcRfdZXs?bG3G | 2022 Print: 8 RhQ2QHdPb | .630 S Nov 1 pz1SCN-RfC | 19 2022 MiTek Industries, Inc. ?PsB70Hq3NSgPqnL8w3uITX | hu Apr 1354:108/2023 GKWrCD075428C 408/2023 | | |
| | -0-11- 0-11- | 6-8-0 | | | <u>13-4-0</u> 6-8-0 | 14-3-0 | | |
| | | | 6x6 = | - | | | | |
| 3-7-14 | 9-9-9- 9-9- 9-9- 1 | 5^{12}_{1} 11 3 $4x4 = 3x4 \parallel$ $3x4 \parallel$ | 4 9 1.5x4 | | 12 5 8 3x8 = 3x4 | | | |
| | | 3x8 = | | | 3x4 | II. | | |
| Scale = 1:37 Plate Offsets (X, Y): $[3:0.5]$ | -6,Edge], [3:0-0-10,0-2-9], [5:0 | 2-2-0 6-8-0 2-2-0 4-6-0 | | | 11-2-0 4-6-0 | 13-4-0 2-2-0 | | |

| | Loading (psf) TCLL (roof) 25.0 TCDL 10.0 DOUL 0.0 | Spacing2-0-0Plate Grip DOL1.15Lumber DOL1.15 | | DEFL Vert(LL) Vert(CT) | in -0.15 -0.28 | (loc) 3-9 3-9 | l/defl >999 >565 | 240 180 | PLATES MT20 | GRIP 197/144 |
|---|---|--|----------------------|------------------------------|----------------------|---------------------|------------------------|------------|----------------|------------------------|
| PCDI 10.0 Codo IPC2019/TPI2014 Matrix SU I Waight: 55 lb ET - | BCLL 0.0 BCDL 10.0 | Rep Stress Incr NO Code IRC2018/TPI201 | WB 0.08 Matrix-SH | Horz(CT) | 0.26 | 6 | n/a | n/a | Weight: 55 lb | FT = 20% |

LUMBER TOP CHORD 2x6 SPF No.2

| BOT CHORD | 2x4 SP N | o.2 *Except* 10-3:2x6 SPF No.2, | | | | | |
|-----------|---|---------------------------------|--|--|--|--|--|
| | 5-8:2x6 S | 5-8:2x6 SP 2400F 2.0E | | | | | |
| WEBS | 2x3 SPF I | No.2 | | | | | |
| BRACING | | | | | | | |
| TOP CHORD | Sheathed | or 4-10-5 oc purlins. | | | | | |
| BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc | | | | | | |
| | bracing. | | | | | | |
| REACTIONS | (size) | 2=0-3-8, 6=0-3-8 | | | | | |
| | Max Horiz | 2=-58 (LC 17) | | | | | |
| | Max Uplift | 2=-109 (LC 12), 6=-109 (LC 13) | | | | | |
| | Max Grav | 2=661 (LC 1), 6=661 (LC 1) | | | | | |
| FORCES | (lb) - Max | imum Compression/Maximum | | | | | |
| | Tension | | | | | | |
| TOP CHORD | 1-2=0/8, 2 | 2-3=-350/149, 3-4=-1192/384, | | | | | |
| | | | | | | | |

| | 1 2 0,0,2 0 000, 100,0 1 1102,001, |
|-----------|---|
| | 4-5=-1192/392, 5-6=-352/139, 6-7=0/8 |
| BOT CHORD | 2-10=-6/24, 3-10=-14/88, 3-9=-254/1110, |
| | 5-9=-254/1110, 5-8=-13/89, 6-8=-5/25 |
| WEBS | 4-9=0/264 |

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-11-0 to 4-1-0, Interior (1) 4-1-0 to 6-8-0, Exterior(2R) 6-8-0 to 11-4-12, Interior (1) 11-4-12 to 14-3-0 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DDL=1.60 plate grip DDL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 This truss is designed in accordance with the 2018
- 4) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard





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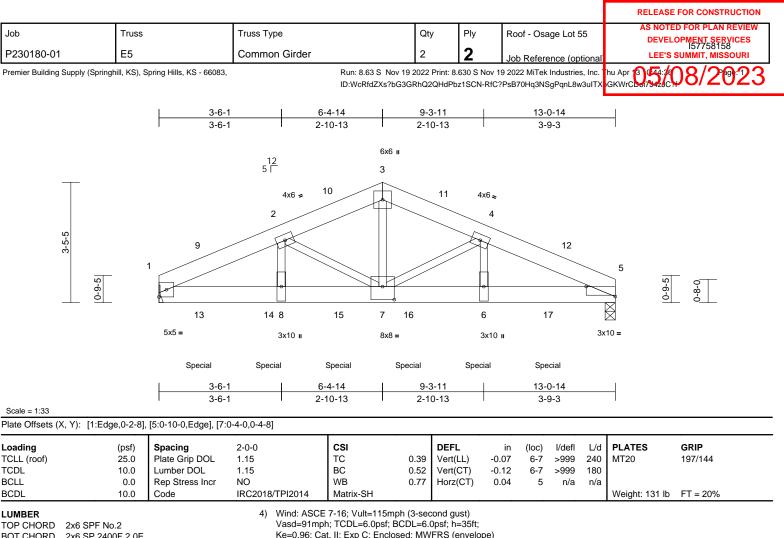
16023 Swingley Ridge Rd Chesterfield, MO 63017

| | | | | | | | | | RELEASE FOR CONSTRUCTION |
|---|---|------------------------------|-----------------------------------|--|----------------|----------------------|------------|--|---|
| Job | Truss | | Truss Type | | Qty | Ply | Roof - | - Osage Lot 55 | |
| P230180-01 | E3 | | Roof Special | | 4 | 1 | | 0 | DEVELOPMENT SERVICES 157758157 LEE'S SUMMIT, MISSOURI |
| | ply (Springhill, KS), Spri | ring Hills, KS - 66083. | Rooi Opeoia. | Run: 8,63 S Nov | | | | eference (optional MiTek Industries, Inc. | |
| 11011101 201111 3 2 1 1 | // (opiniginii,,, | ing timo, rec 2222., | | ID:Vc7t4F_eo7A0 | zc1yOlBpkl | nzaj1?-RfC?P | 'sB70Hq3NS | gPqnL8w3uITXbGKW | CDoi7J42/C7/00/2023 |
| | | I | 6-8-0 | | I | | 13-0-14 | • 1 | I |
| | | | 6-8-0 | | + | | 6-4-14 | | \neg |
| | | | | | 6x6 = | | | | |
| | | | | | 3 | | | | |
| | \top | | 12 5 [| 9 | | 10 | | | |
| | | | | ° | | | | | |
| | 2 | | | | | | \sim | | |
| | 3-5-5 | | 2 | / | | | | 3, | IX8 II |
| | | 1 | | | _ <u></u> | | | | 5 |
| | 0-8-0 | | | | 7 | | | 6 | 0-9-5 |
| | | | ○ | | 1.5x4 ॥ | | | 6 🗀 🗠 | |
| | | 3x4 = | 3х4 ш | | | | | | 4x4 = |
| | | | | | | | | 3x4 u | |
| | | | 3x4 II | | | | | 3x4 u | |
| | | | 3x8 = | | | | | | |
| | | 2-2- | | 6-8-0 | | 11-2 | | 13-0-14 | |
| Scale = 1:35.5 | | 2-2- | -0 1 . | 4-6-0 | · | 4-6 | -0 | 1-10-14 | · · · · · · · · · · · · · · · · · · · |
| Plate Offsets (X, Y) |): [2:0-5-6,Edge], [2 | 2:0-0-10,0-2-9], [4:0 |)-4-6,Edge], [5:Edge,0-1- | -7], [5:0-2-6,0-4-8] | | | | | |
| Loading | . , | Spacing | 2-0-0 | CSI | | DEFL | | loc) I/defl L/d | |
| TCLL (roof) TCDL | | Plate Grip DOL Lumber DOL | 1.15 1.15 | TC BC | | √ert(LL) √ert(CT) | | 2-7 >999 240 2-7 >563 180 | MT20 197/144 |
| BCLL | 0.0 F | Rep Stress Incr | NO | WB | | Horz(CT) | 0.26 | 5 n/a n/a | |
| BCDL | 10.0 0 | Code | IRC2018/TPI2014 | Matrix-SH | | 2010 | | | Weight: 51 lb FT = 20% |
| | 6 SPF No.2 | | International | designed in accord I Residential Code s | sections R | R502.11.1 ai | nd | | |
| | 4 SP No.2 *Except* 3 3 SPF No.2 | 8-2,4-6:2x6 SPF No | lo.2 R802.10.2 ar LOAD CASE(S) | nd referenced stand | dard ANS | I/TPI 1. | | | |
| WEDGE Rig | ght: 2x4 SP No.2 | | | Oldriga: | | | | | |
| BRACING TOP CHORD Stru | ructural wood sheath | hing directly applied | ro t | | | | | | |
| | 9-8 oc purlins. gid ceiling directly ap | nolied or 10-0-0 oc | | | | | | | |
| bra | acing. | | | | | | | | |
| | k Horiz 1=56 (LC 12 | , | | | | | | | |
| | x Uplift 1=-82 (LC 1) x Grav 1=579 (LC 1 | | | | | | | | |
| FORCES (lb) |) - Maximum Compre | | | | | | | | |
| TOP CHORD 1-2 | ension 2=-353/152, 2-3=-11 | | | | | | | | |
| BOT CHORD 1-8 | 4=-1187/418, 4-5=-3 8=-7/27, 2-8=-20/97, | ′, 2-7=-285/1102, | | | | | | | |
| 4-7 | 7=-285/1102, 4-6=-2 7=0/261 | | | | | | | | |
| NOTES | | | | | | | | | |
| Unbalanced roc this design. | oof live loads have be | een considered for | | | | | | | A MARCA |
| 2) Wind: ASCE 7- | 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) | | | | | | | | |
| Ke=0.96; Cat. II | Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) | | | | | | | | |
| Interior (1) 5-1- | exterior zone and C-C Exterior(2E) 0-1-12 to 5-1-12, Interior (1) 5-1-12 to 6-8-0, Exterior(2R) 6-8-0 to | | | | | | | | |
| | or (1) 11-4-12 to 13-0 xposed ; end vertical | | | | | | | X | atts Sandas |
| exposed;C-C fo | or members and force vn; Lumber DOL=1.6 | ces & MWFRS for | | | | | | N. | NUMBER |
| DOL=1.60 | | | | | | | | Ø. | PE-2001018807 |
| chord live load | been designed for a nonconcurrent with | any other live loads | s. | | | | | Y | ESSI ENGLA |
| 4) Refer to girder(| (s) for truss to truss of | connections. | | | | | | | SJONAL ENCE |
| | | | | | | | | | April 14,2023 |



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M MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017



| TOP CHORD | 2x6 SPF I | No.2 | | | | | | |
|--|--|--|--|--|--|--|--|--|
| BOT CHORD | 2x6 SP 24 | 400F 2.0E | | | | | | |
| WEBS | 2x3 SPF I | 2x3 SPF No.2 | | | | | | |
| BRACING | | | | | | | | |
| TOP CHORD | Sheathed | Sheathed or 4-11-1 oc purlins. | | | | | | |
| BOT CHORD | Rigid ceili bracing. | Rigid ceiling directly applied or 10-0-0 oc bracing. | | | | | | |
| REACTIONS | (size) 1= Mechanical, 5=0-3-8, (req. 0-3-12) | | | | | | | |
| | Max Horiz | 1=-54 (LC 17) | | | | | | |
| | Max Uplift | 1=-727 (LC 12), 5=-669 (LC 13) | | | | | | |
| | Max Grav | 1=5223 (LC 1), 5=4791 (LC 1) | | | | | | |
| FORCES | (lb) - Max Tension | imum Compression/Maximum | | | | | | |
| TOP CHORD | 1-2=-851 | 5/1409, 2-3=-6488/1121, | | | | | | |
| | 3-4=-6486 | 6/1120, 4-5=-8657/1435 | | | | | | |
| BOT CHORD | 1-8=-1222 | 2/7552, 7-8=-1222/7552, | | | | | | |
| | | 9/7748, 5-6=-1239/7748 | | | | | | |
| WEBS | | 2217, 2-7=-1837/367, | | | | | | |
| | | 4472, 4-7=-2062/406, | | | | | | |
| | 4-6=-270/ | 2258 | | | | | | |
| NOTES | | | | | | | | |
| 1) 2-ply truss to be connected together with 10d | | | | | | | | |

(0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-6-0 oc.
Web connected as follows: 2x3 - 1 row at 0-9-0 oc,

Except member 4-6 2x3 - 1 row at 0-2-0 oc.
All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

 Unbalanced roof live loads have been considered for this design. Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-12 to 5-0-12, Interior (1) 5-0-12 to 6-4-14, Exterior(2R) 6-4-14 to 11-4-14, Interior (1) 11-4-14 to 12-11-2 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

- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 6) WARNING: Required bearing size at joint(s) 5 greater
- WARNING: Required bearing size at joint(s) 5 greater than input bearing size.
- 7) Refer to girder(s) for truss to truss connections.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1476 lb down and 205 lb up at 1-1-14, 1476 lb down and 205 lb up at 3-1-14, 1476 lb down and 205 lb up at 5-1-14, 1476 lb down and 205 lb up at 7-1-14, and 1476 lb down and 205 lb up at 9-1-14, and 1476 lb down and 205 lb up at 11-1-14 on bottom chord. The design/ selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (lb/ft)
 - Vert: 1-3=-70, 3-5=-70, 1-5=-20
 - Concentrated Loads (lb)
 - Vert: 6=-1476 (F), 13=-1476 (F), 14=-1476 (F), 15=-1476 (F), 16=-1476 (F), 17=-1476 (F)



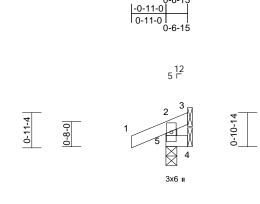
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEX REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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 **ANSITPII Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



| | | | | | | RELEASE FOR CONSTRUCTION |
|------------|-------|------------|-----|-----|-------------------------|-----------------------------------|
| Job | Truss | Truss Type | Qty | Plv | Roof - Osage Lot 55 | AS NOTED FOR PLAN REVIEW |
| | | | | | | DEVELOPMENT SERVICES 157758159 |
| P230180-01 | J1 | Jack-Open | 8 | 1 | Job Reference (optional | LEE'S SUMMIT, MISSOURI |
| | | | | | | |

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. thu Apr 3 54:10 8/2023 ID:WcRfdZxs?bG3GRhQ2QHdPbz1SCN-RfC?PsB70Hq3NSgPqnL8w3uITX GKWrCbd7322C1 8/2023





0-6-15

| 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 | 0.10 | Vert(LL) | 0.00 | 5 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.02 | Vert(CT) | 0.00 | 5 | >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 | IRC2018/TPI2014 | Matrix-R | | | | | | | Weight: 4 lb | FT = 20% |

L

| TOP CHORD | 2x4 SP N | 0.2 |
|-----------|------------------------|--|
| BOT CHORD | 2x4 SP N | 0.2 |
| WEBS | 2x4 SP N | 0.2 |
| BRACING | | |
| TOP CHORD | Sheathed verticals. | l or 0-6-15 oc purlins, except end |
| BOT CHORD | | ing directly applied or 10-0-0 oc |
| REACTIONS | (size) | 3= Mechanical, 4= Mechanical, 5=0-3-8 |
| | Max Horiz | 5=24 (LC 9) |
| | Max Uplift | 3=-56 (LC 1), 4=-19 (LC 1), 5=-67 (LC 8) |
| | Max Grav | 3=25 (LC 8), 4=5 (LC 8), 5=187 (LC 1) |
| | | |

FORCES (lb) - Maximum Compression/Maximum Tension TOP CHORD 2-5=-160/154, 1-2=0/29, 2-3=-33/19

BOT CHORD 4-5=0/0 NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 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
- This truss has been designed for a 10.0 psf bottom 2) chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



April 14,2023





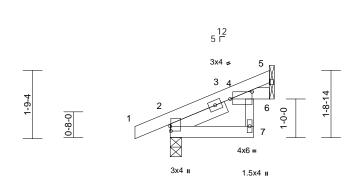


| | | | | | | RELEASE FOR CONSTRUCTION |
|-----------------------------|---|------------|-----|-----|--|---|
| Job | Truss | Truss Type | Qty | Ply | Roof - Osage Lot 55 | |
| P230180-01 | J2 | Jack-Open | 8 | 1 | Job Reference (optional | DEVELOPMENT SERVICES 157758160 LEE'S SUMMIT, MISSOURI |
| Premier Building Supply (Sp | pringhill, KS), Spring Hills, KS - 66083, | | | | 9 2022 MiTek Industries, Inc. ?PsB70Ha3NSaPanL8w3uITX | |

-0-11-0

0-11-0

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 144:37 ID:WcRfdZXs?bG3GRhQ2QHdPbz1SCN-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCbd7542sC+





2-6-15

2-6-15

Scale = 1:29.9

| Plate Offsets (X, Y): [2:0-1-8,0-0-3], [4:0-6-13,0-2-4] | | | | | | | | | | | | |
|---|-------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|---------------|----------|
| 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 | 0.16 | Vert(LL) | 0.00 | 7 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.09 | Vert(CT) | -0.01 | 7 | >999 | 180 | | |
| BCLL | 0.0 | Rep Stress Incr | NO | WB | 0.00 | Horz(CT) | 0.00 | 6 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-R | | | | | | | Weight: 13 lb | FT = 20% |

LUMBER

| TOP CHORD | 2x4 SP N | 0.2 |
|-----------|------------|--|
| BOT CHORD | 2x4 SP N | 0.2 *Except* 7-4:2x3 SPF No.2 |
| SLIDER | Left 2x4 S | SP No.2 1-6-8 |
| BRACING | | |
| TOP CHORD | Sheathed | l or 2-6-15 oc purlins. |
| BOT CHORD | Rigid ceil | ing directly applied or 6-0-0 oc |
| | bracing. | |
| REACTIONS | (size) | 2=0-3-8, 5= Mechanical, 6= |
| | | Mechanical |
| | Max Horiz | 2=60 (LC 12) |
| | Max Uplift | 2=-31 (LC 12), 5=-24 (LC 12), 6=-7 (LC 12) |
| | Max Grav | 2=192 (LC 1), 5=62 (LC 1), 6=49 (LC 3) |
| FORCES | (lb) - Max | imum Compression/Maximum |
| | Tension | |
| TOP CHORD | 1-2=0/1, 2 | 2-4=-57/23, 4-5=-25/22 |
| BOT CHORD | 2-7=-14/0 | , 4-7=0/41, 4-6=0/0 |
| | | |

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

3) Refer to girder(s) for truss to truss connections.

4) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



April 14,2023



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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/TP11** Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

| | | | | | | NEELAOL |
|------------|-------|------------|-----|-----|-------------------------|---------|
| lah | Truss | Truss Type | Qty | Plv | Deat Oceans Lat 55 | AS NOTE |
| Job | TTUSS | Truss Type | Qly | Fiy | Roof - Osage Lot 55 | DEVELO |
| P230180-01 | J3 | Jack-Open | 6 | 1 | Job Reference (optional | LEE'S S |
| | | · · | | | JOD Reference (optional | |

-0-11-0

0-11-0

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 44:508/292 ID:WcRfdZXs?bG3GRhQ2QHdPbz1SCN-RfC?PsB70Hq3NSgPqnL8w3uITX GKWrCbd75421C

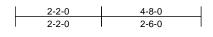


12 5 Г 8 3x4 2-7-11 2-7-5 3 2 Fot 6 1-0-0 0-8-0 0 7 X 3x4 II 1.5x4 🛚

4x6 🚅

4-8-0

4-8-0



Scale = 1:28.9 Plate Offsets (X, Y): [2:0-1-8,0-4-3]

| 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 | 0.58 | Vert(LL) | 0.05 | 7 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.36 | Vert(CT) | -0.07 | 7 | >804 | 180 | | |
| BCLL | 0.0 | Rep Stress Incr | NO | WB | 0.00 | Horz(CT) | 0.05 | 6 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-R | | | | | | | Weight: 19 lb | FT = 20% |

LUMBER

| 2x4 SP N | 0.2 |
|------------|---|
| 2x4 SP N | o.2 *Except* 7-4:2x3 SPF No.2 |
| Left 2x4 S | SP No.2 1-6-7 |
| | |
| Sheathed | l or 4-8-0 oc purlins. |
| Rigid ceil | ing directly applied or 6-0-0 oc |
| bracing. | |
| (size) | 2=0-3-8, 5= Mechanical, 6= |
| | Mechanical |
| Max Horiz | 2=97 (LC 12) |
| Max Uplift | 2=-42 (LC 12), 5=-55 (LC 12), 6=-9 (LC 12) |
| Max Gray | 2=278 (LC 1), 5=122 (LC 1), 6=79 |
| Wax Glav | (LC 3) |
| (lb) - Max | imum Compression/Maximum |
| Tension | - |
| | 2x4 SP N Left 2x4 S Sheathee Rigid ceil bracing. (size) Max Horiz Max Uplift Max Grav (lb) - Max |

TOP CHORD 1-2=0/1, 2-4=-136/0, 4-5=-55/40 BOT CHORD 2-7=-10/14, 4-7=-20/57, 4-6=-6/6 NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-11-0 to 4-1-0, Interior (1) 4-1-0 to 4-7-4 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 55 lb uplift at joint 5, 42 lb uplift at joint 2 and 9 lb uplift at joint 6.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



NiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

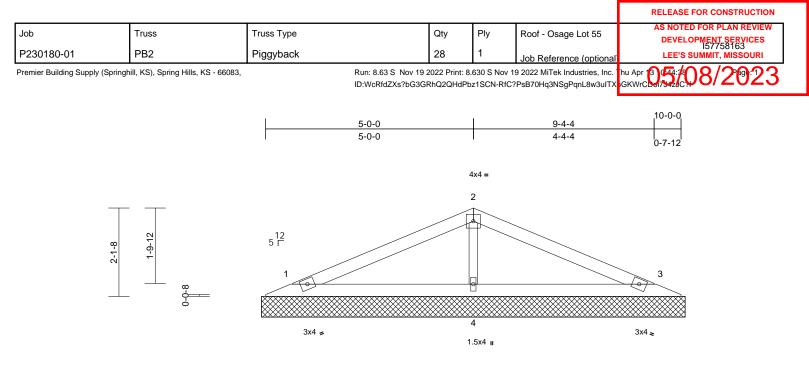
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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 **ANS/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

| | | | | | | | | | RELEASE | FOR CONSTRUCTION | |
|---|---|--|--|---|---|--|--|--------------------|----------------------------------|--|---|
| Job | Truss | | Truss Type | | Qty | Ply | Roof - Osa | ge Lot 55 | | D FOR PLAN REVIEW | ٦ |
| P230180-01 | PB1 | | Piggyback | | 2 | 1 | Job Refere | nce (optional | | OPMENT SERVICES 157758162 SUMMIT, MISSOURI | |
| Premier Building St | upply (Springhill, KS), S | Spring Hills, KS - 66083, | | Run: 8.63 S Nov 19 | | | 9 2022 MiTek I | ndustries, Inc. | | | ₹ |
| | | | | ID:WcRfdZXs?bG3G | RhQ2QHdPt | z1SCN-RfC? | PsB70Hq3NSq | gPqnL8w3uITX | GKWrCD017542JC | | |
| | | | I | | | I | | | | l | |
| | | | | <u>5-0-0</u> 5-0-0 | | | | 9-4-4 4-4-4 | | 10-0-0 0-7-12 | |
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| | | E | ***** | 12 11 | | 10 | <u>*************************************</u> | 8 | ****** | | |
| | | | 3x4 ≤ | | | | | | 3x4 👟 | | |
| | | | I | | | 10-0-0 | | | | | |
| Scale = 1:24.4 | | | | | | | | | | | |
| Loading | (psf) | Spacing | 2-0-0 | CSI | DEF | | in (loc) | l/defl L/d | PLATES | GRIP | — |
| TCLL (roof) TCDL | 25.0 10.0 | Plate Grip DOL Lumber DOL | 1.15 1.15 | |).04 Vert().02 Vert(| , | n/a - n/a - | n/a 999 n/a 999 | MT20 | 244/190 | |
| BCLL BCDL | 0.0 10.0 | Rep Stress Incr Code | NO IRC2018/TPI2014 | WB (Matrix-SH |).03 Horiz | 2(TL) 0. | 00 7 | n/a n/a | Weight: 32 lb | FT = 20% | |
| BOT CHORD 2 OTHERS 2 BRACING TOP CHORD 3 BOT CHORD 4 REACTIONS (s MM M FORCES (TOP CHORD 4 BOT CHORD 4 BOT CHORD 4 BOT CHORD 4 BOT CHORD 4 BOT CHORD 4 S WEBS 4 NOTES 1 Unbalanced this design. 2) Wind: ASCE Vasd=91mpl Ke=0.96; Ca exterior zone and right exp exposed;C-C | bracing. jize) 1=10-2-6, 9=10-2-6, 12=10-2-1, 12=10-2-1, 12=30 [LC lax Uplift 1=-6 (LC (LC 13), § 12), 12= (LC 1), 9 (LC 1), 9 (LC 1), 9 10, 11=11 (lb) - Maximum Com Tension 1-2=-44/27, 2-3=-29 4-5=-35/75, 5-6=-29 1-12=-8/30, 11-12=- 9-10=-8/30, 8-9=-8/3 4-10=-80/15, 3-11=- 5-9=-94/75, 6-8=-11 roof live loads have 7-16; Vult=115mph h; TCDL=6.0psf; BC tt. II; Exp C; Enclose and C-C Exterior(2 posed ; end vertical | rapplied or 10-0-0 oc , 7=10-2-6, 8=10-2-6, , 10=10-2-6, 11=10-2 6 12) 13), 7=-6 (LC 13), 8= 9=-32 (LC 13), 11=-33 46 (LC 12) 1), 7=65 (LC 1), 8=1 =114 (LC 26), 10=105 4 (LC 25), 12=159 (L npression/Maximum //37, 3-4=-35/72, //40, 6-7=-33/19 8/30, 10-11=-8/30, 30, 7-8=-8/30 94/92, 2-12=-115/115 5/94 been considered for a (3-second gust) CDL=6.0psf; h=35ft; ad; MWFRS (envelop; 2E) zone; cantilever le left and right forces & MWFRS for | only. For s see Standa or consult Q 4) All plates a 5) Gable requ 6) Gable stud: 7) This truss b chord live live 8) This truss in Internationa R802.10.2 9) See Standa 3 (LC consult qua 59 LOAD CASE(S 6) (LC C 1) | gned for wind loads in 1 tuds exposed to wind (ird Industry Gable End yualified building desigr re 1.5x4 MT20 unless of ires continuous bottom s spaced at 1-4-0 oc. has been designed for a bad nonconcurrent with s designed in accordam al Residential Code sed and referenced standar ard Industry Piggyback onnection to base truss ulified building designer) Standard | normal to the Details as a per as per A potherwise in chord bear a 10.0 psf b any other ce with the ctions R502 rd ANSI/TP Truss Conr s as applica | ne face), applicable, NSI/TPI 1. dicated. ing. ottom live loads. 2018 .11.1 and I 1. nection | | | STATE OF I SEVI OF ESSIONA | ER * | |
| | | | | | | | | | and a | 14.2023 | |

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

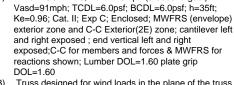


April 14,2023



| | | | | 10-0-0 | | | | | | | | | |
|--------------|-------|---------|-------|--------|--|------|-----------|-------|--------|--|--------|------|--|
| ale = 1:27.7 | | | | | | | | | | | | I | |
| iding | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in n/a | (loc) | l/defl | | PLATES | GRIP | |

| Loading TCLL (roof) TCDL BCLL | | (psf) 25.0 10.0 0.0 | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr | 2-0-0 1.15 1.15 NO | | CSI TC BC WB | 0.32 0.21 0.05 | DEFL Vert(LL) Vert(TL) Horiz(TL) | in n/a n/a 0.00 | (loc) - - 3 | l/defl n/a n/a n/a | L/d 999 999 n/a | PLATES MT20 | GRIP 244/190 |
|---|--|-------------------------------------|---|-----------------------------|---|---|---|--|--------------------------|----------------------|-----------------------------|--------------------------|---|------------------------|
| BCDL | | 10.0 | Code | IRC2018 | 3/TPI2014 | Matrix-SH | | | | | | | Weight: 30 lb | FT = 20% |
| LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD | Rigid ceiling bracing. | 2 5.2 r 6-0-0 o g directly | applied or 10-0-0 oc | 7) 8) LC | International R802.10.2 ar See Standar Detail for Co | designed in acco Residential Code ad referenced sta d Industry Piggyb nnection to base fied building desig Standard | e sections ndard AN ack Truss truss as a | R502.11.1 a ISI/TPI 1. s Connection | | | | | | |
| REACTIONS | Max Horiz 1 Max Uplift 1 4 Max Grav 1 | =33 (LC =-38 (LC =-36 (LC | : 12), 3=-44 (LC 13), : 12) C 25), 3=178 (LC 26), | | | | | | | | | | | |
| FORCES | (lb) - Maxim Tension | ium Com | pression/Maximum | | | | | | | | | | | |
| TOP CHORD BOT CHORD WEBS NOTES | 1-2=-92/56, 1-4=0/35, 3 2-4=-284/19 | -4=0/35 91 | | | | | | | | | | | | |
| this design 2) Wind: AS Vasd=91r | n. CE 7-16; Vult= nph; TCDL=6. | =115mph 0psf; BC | been considered for (3-second gust) DL=6.0psf; h=35ft; | 、 、 | | | | | | | | | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | - TE |



3) 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. Gable requires continuous bottom chord bearing. 4)

Gable studs spaced at 4-0-0 oc. 5)

6)

Scale

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





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| | | | | | | | | | | RELEASE | FOR CONSTRUCTION | |
|--|------------------------------|---------------|--|--------------------------|---|-------------|-------------|-------------------|----------------------------------|---|--|---|
| Job | | Truss | | Truss Type | | Qty | Ply | Roof - Osag | ge Lot 55 | | D FOR PLAN REVIEW | |
| P230180-01 | | PB3 | | Piggyback | | 2 | 1 | Job Defere | nen (antional | LEE'S | OPMENT SERVICES 157758164 SUMMIT, MISSOURI | |
| | Supply (Springh | nill. KS). S | pring Hills, KS - 66083, | 337 | Run: 8.63 S Nov 19 3 | | 630 S Nov 1 | - | nce (optional ndustries. Inc. | <u> </u> | | |
| | | ,,, | p | | ID:WcRfdZXs?bG3G | | | | | | | |
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| | | | | I | 5-0-0 | | 1 | | 9-4-4 | 10 |)-0-0 I | |
| | | | | | 5-0-0 | | | | 4-4-4 | | | |
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| 0 1 1050 | | | | | | 1 | 0-0-0 | | | | | |
| Scale = 1:25.3 | | | 1 | , | 1 | | | | | 1 | | - |
| Loading TCLL (roof) | | (psf) 25.0 | Spacing Plate Grip DOL | 2-0-0 1.15 | CSI TC 0 | .09 Vert(| | in (loc) n/a - | l/defl L/d n/a 999 | PLATES MT20 | GRIP 244/190 | |
| TCDL | | 10.0 | Lumber DOL | 1.15 | | .05 Vert(| , | n/a - | n/a 999 | 10120 | 244/130 | |
| BCLL BCDL | | 0.0 10.0 | Rep Stress Incr Code | NO IRC2018/TPI2014 | WB 0 Matrix-SH | .04 Horiz | (TL) 0. | 00 5 | n/a n/a | Weight: 31 lb | FT = 20% | |
| | - | 10.0 | 0000 | | | 10.0 pof b | | | | Wolght. OT ID | | • |
| | 2x4 SP No.2 | | | chord live | has been designed for a load nonconcurrent with | any other I | ive loads. | | | | | |
| BOT CHORD OTHERS | 2x4 SP No.2 2x3 SPF No. | | | | is designed in accordant al Residential Code sec | | | | | | | |
| BRACING | | | | R802.10.2 | and referenced standar | d ANSI/TPI | 1. | | | | | |
| TOP CHORD BOT CHORD | Sheathed or Rigid ceiling | | c purlins. applied or 10-0-0 oc | | lard Industry Piggyback | | | | | | | |
| | bracing. | - | | consult qu LOAD CASE(| alified building designer. | | | | | | | |
| REACTIONS | | | 5=10-2-6, 6=10-2-6, 8=10-2-6 | LOAD CASE | S) Standard | | | | | | | |
| | Max Horiz 1= | =33 (LC | 16) | <u> </u> | | | | | | | | |
| Max Uplift 1=-7 (LC 12), 5=-13 (LC 13), 6= (LC 13), 8=-69 (LC 12) | | | | | | | | | | | | |
| | | | 1), 5=89 (LC 1), 6=23 '=132 (LC 1), 8=238 (| | | | | | | | | |
| | 25 | 5) | | | | | | | | | | |
| FORCES (lb) - Maximum Compression/Maximum Tension | | | | | | | | | | | | |
| TOP CHORD 1-2=-48/36, 2-3=-44/70, 3-4=-44/73, 4-5=-40/28 | | | | | | | | | | | | |
| BOT CHORD 1-8=-7/28, 7-8=-7/28, 6-7=-7/28, 5-6=-7/2 | | | | | | | | | | | | |
| WEBS 3-7=-104/38, 2-8=-177/173, 4-6=-177/140 NOTES | | | |) | | | | | | | | |
| 1) Unbalance | | ds have | been considered for | | | | | | | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | 5 | |
| this design 2) Wind: ASC | | 115mnh | (3-second gust) | | | | | | | OF | AISSO | |
| Vasd=91m | ph; TCDL=6.0 |)psf; BC | DL=6.0psf; h=35ft; | | | | | | 2 | TE | 0000 | |
| | | | d; MWFRS (envelope E) zone; cantilever le | | | | | | A | S SCOT | | |
| and right ex | kposed ; end y | vertical I | | | | | | | B | SEVI | ER L | |
| reactions s | | | 1.60 plate grip | | | | | | ja a | the last | 0 3 | |
| DOL=1.60 | | | | c | | | | | 4 | colon | EMer . | |

- Truss designed for wind loads in the plane of the truss 3) 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.
- 4) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 2-0-0 oc.

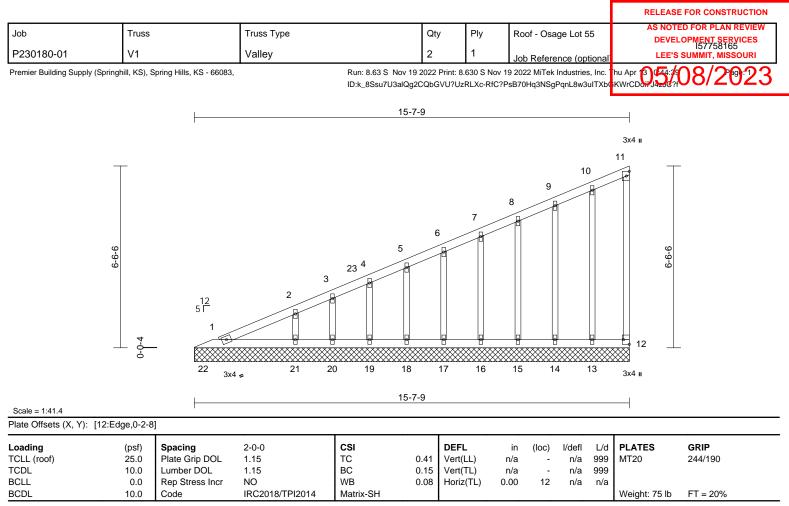
April 14,2023

PE-200101880, PE-200101880, PE-SSIONAL ENGIN

aller .

 \mathbf{M} MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



| BCLL BCDL | 0.0 10.0 | Code | IRC2018/TI | 212014 | vvв Matrix-SH | 0.08 | HORIZ(IL) | 0.00 | 12 | n/a i | Weight: 75 lb FT = 20% |
|--|--|---|--|--|--|--|---|--|----|-------|-----------------------------------|
| BCDL | 10.0 | Code | IRC2018/11 | 12014 | Maurix-SH | | - | | | | Weight: 75 lb $FT = 20\%$ |
| LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS | 2x4 SP No.2 2x3 SPF No.2 2x3 SPF No.2 Structural wood she 6-0-0 oc purlins, ep Rigid ceiling directly bracing. (size) 1=15-7-9 14=15-7- 17=15-7- 20=15-7 Max Horiz 22=280 (| y applied or 9-0-13 oc 9, 12=15-7-9, 13=15-7 9, 15=15-7-9, 16=15 9, 18=15-7-9, 19=15 9, 21=15-7-9, 22=15 (LC 9) | d or WEB: • •-9, 1) W 7-9, K 7-9, K 7-9 e: • | 2(18 16 14 12 5 10 7- 4 5 5 10 7- 4 5 5 10 7 4 5 5 10 7 4 5 5 10 7 4 5 5 10 7 5 10 7 5 10 7 5 10 7 5 10 7 5 10 7 7 5 10 7 7 5 10 7 7 5 10 7 7 5 10 7 7 5 10 7 7 7 5 10 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 | -22=-425/267, 0-21=-107/117, 8-19=-107/117, 6-17=-107/117, 4-15=-107/117, 2-13=-107/117, 0-13=-105/106, -16=-93/58, 6-1 -19=-98/58, 3-2 7-16; Vult=115r ; TCDL=6.0psf; II; Exp C; Encl and C-C Exteri 11-6 to 15-6-15 | 19-20=-10 17-18=-10 15-16=-11 13-14=-10 9-14=-95, 7=-93/54, 0=-69/46, mph (3-sec BCDL=6.0 osed; MW or(2E) 0-1 zone; can | 07/117, 07/110 | 10 pe) d | | | |
| | 14=-25 (I 16=-33 (I 20=-25 (I 22=-71 (I Max Grav 1=208 (L 13=123 (15=120 (17=120 (19=128 (| C 20), 12=47 (LC 1), (LC 1), 14=122 (LC 1) (LC 1), 16=120 (LC 1) (LC 1), 16=120 (LC 1) (LC 1), 18=119 (LC 1) (LC 1), 20=83 (LC 1), | 2), fc 2), Li 2), 2) T 2), 3) A 2), 3) A 4, 3) A 4, 4) G 7, 5) G 7, 6) T | r members a umber DOL= russ designe hy. For stud- consult qua Il plates are able require able studs s his truss has | ; end vertical le and forces & M ¹ e1.60 plate grip ed for wind load 35 exposed to w Industry Gable alified building c 1.5x4 MT20 un s continuous bo paced at 1-4-0 s been designed d nonconcurren | WFRS for DOL=1.60 ds in the pl vind (norm End Deta lesigner as less other bottom chor oc. d for a 10.0 | reactions sho ane of the tru al to the face ils as applical s per ANSI/TF wise indicated d bearing. | own; uss), ble, Pl 1. d. | | | SCOTT M |
| FORCES | | (LC 1), 22=27 (LC 12) mpression/Maximum | 7) T | his truss is d | lesigned in according to the second s | ordance w | ith the 2018 | | | | SCOTT MI. |
| TOP CHORD | 4-5=-262/158, 5-6= | -312/174, 3-4=-290/1 -236/148, 6-7=-209/1 -151/117, 9-10=-121/ 2=-40/42 | 69, R 37, LOAE | | d referenced st | | | in U | | | SEVIER NUMBER PE-2001018807 |

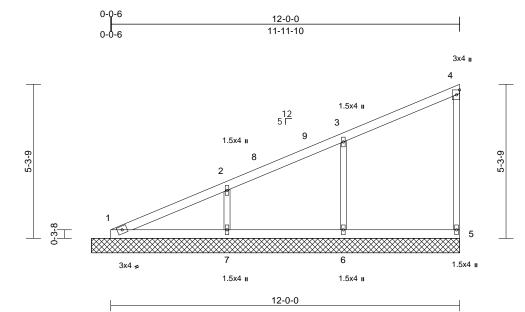
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd Chesterfield, MO 63017

April 14,2023

| | | | | | | | RELEASE FOR CONSTRUCTION |
|---|------------|-------|------------|-----|-------------------------------|-------------------------|-----------------------------------|
| ſ | Job | Truss | Truss Type | Qty | Plv | Roof - Osage Lot 55 | AS NOTED FOR PLAN REVIEW |
| | 305 | 11033 | Tuss Type | Quy | i iy | Roor - Osage Lot 55 | DEVELOPMENT SERVICES 157758166 |
| | P230180-01 | V2 | Valley | 2 | 1 | Job Reference (optional | |
| Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, D:WcRfdZXs?bG3GRhQ2QHdPbz1SCN-RfC?PsB70Hq3NS | | | | | 9 2022 MiTek Industries, Inc. | | |



Scale = 1:39.6

| 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 | 0.28 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.14 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 | Rep Stress Incr | NO | WB | 0.09 | Horiz(TL) | 0.00 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI201 | 4 Matrix-SH | | | | | | | Weight: 45 lb | FT = 20% |
| LUMBER | | | 5) This tru | ss has been designed | d for a 10. | 0 psf bottom | | | | | | |
| TOP CHORD | 2x4 SP No.2 | | | ve load nonconcurren | | | ids. | | | | | |
| BOT CHORD | 2x4 SP No.2 | | | ss is designed in acco | | | | | | | | |
| WEBS | 2x3 SPF No.2 | | | ional Residential Cod | | | and | | | | | |
| OTHERS | 2x3 SPF No.2 | | | 0.2 and referenced sta | andard Al | NSI/TPI 1. | | | | | | |
| BRACING | | | LOAD CAS | E(S) Standard | | | | | | | | |
| TOP CHORD | Sheathed or 6-0-0 c verticals. | oc purlins, except er | nd | | | | | | | | | |
| BOT CHORD | Rigid ceiling directly bracing. | applied or 10-0-0 o | C | | | | | | | | | |
| REACTIONS | (size) 1=12-7-1 | 5, 5=12-7-15, 6=12- | 7-15, | | | | | | | | | |
| | 7=12-7-1 | | -, | | | | | | | | | |
| | Max Horiz 1=224 (LO | C 9) | | | | | | | | | | |
| | Max Uplift 5=-32 (LC | C 9), 6=-109 (LC 12) | , | | | | | | | | | |
| | 7=-114 (L | | | | | | | | | | | |
| | Max Grav 1=147 (L0 6=384 (L0 | C 20), 5=144 (LC 1) C 1), 7=391 (LC 1) | , | | | | | | | | | |
| FORCES | (lb) - Maximum Corr Tension | npression/Maximum | | | | | | | | | | |
| TOP CHORD | 1-2=-308/182, 2-3=- 4-5=-110/101 | 219/141, 3-4=-118/9 | 90, | | | | | | | | | |
| BOT CHORD | | 06 5-686/06 | | | | | | | | | | |
| WEBS | 3-6=-303/238, 2-7=- | , | | | | | | | | | | |
| NOTES | 0 0 000,200,21 | 200/210 | | | | | | | | | | |
| | CE 7-16; Vult=115mph | (3-second aust) | | | | | | | | | | acon |
| | nph; TCDL=6.0psf; BC | | | | | | | | | | 8 OF | MICON |
| | Cat. II; Exp C; Enclose | | pe) | | | | | | | | 8 TE | 050.0 |
| | one and C-C Exterior(2 | | | | | | | | | 6 | N | NSY |
| |) 5-10-5 to 12-7-5 zone | | | | | | | | | B | STATE OF | TM. YE Y |
| | sed ; end vertical left a | | | | | | | | | 18 | / SEV | IER \ Y |
| | ers and forces & MWF | | own; | | | | | | - (| 14 | | \★Ŋ |
| | OL=1.60 plate grip DC | | | | | | | | | 00 | 1 1/- | 0 1 |
| Truss des | designed for wind loads in the plane of the truss | | | | | | | | | | | |

Truss designed for wind loads in the plane of the truss 2) 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. Gable requires continuous bottom chord bearing. 3)

4) Gable studs spaced at 4-0-0 oc.

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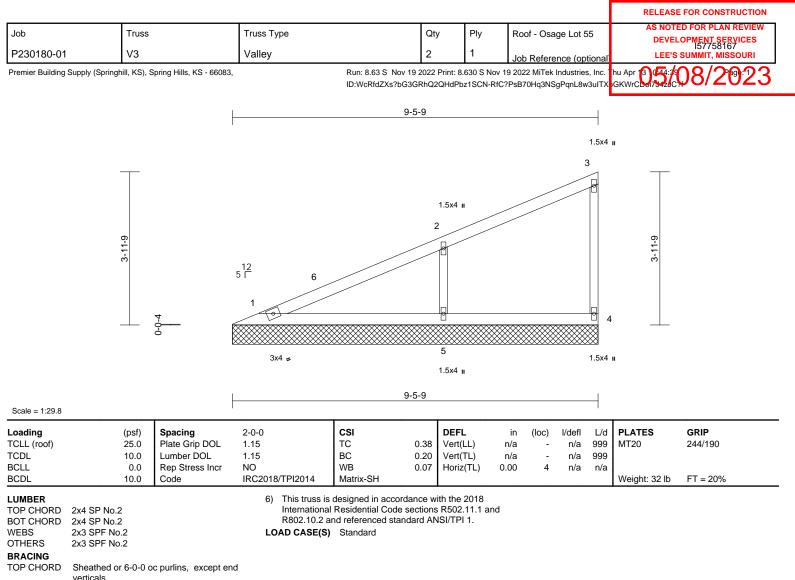


April 14,2023

NUMPER

PE-2001018807

OFFSSIONAL ET



| BOT CHORD | Rigid ceil bracing. | ing directly applied or 10-0-0 oc |
|-----------|------------------------|-----------------------------------|
| REACTIONS | (size) | 1=9-5-9, 4=9-5-9, 5=9-5-9 |

| | Max Horiz | 1=164 (LC 9) |
|--------|------------|------------------------------------|
| | Max Uplift | 1=-1 (LC 12), 4=-25 (LC 9), 5=-138 |
| | | (LC 12) |
| | Max Grav | 1=171 (LC 1), 4=123 (LC 1), 5=485 |
| | | (LC 1) |
| FORCES | (lb) - Max | imum Compression/Maximum |
| | Tanaian | |

| | 1613011 |
|-----------|--|
| TOP CHORD | 1-2=-234/143, 2-3=-107/73, 3-4=-99/102 |
| BOT CHORD | 1-5=-64/73, 4-5=-64/73 |
| WEBS | 2-5=-360/300 |
| | |

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-9-1 to 5-6-3, Interior (1) 5-6-3 to 9-4-15 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.
 Gable requires continuous bottom chord bearing.

4) Gable studs spaced at 4-0-0 oc.

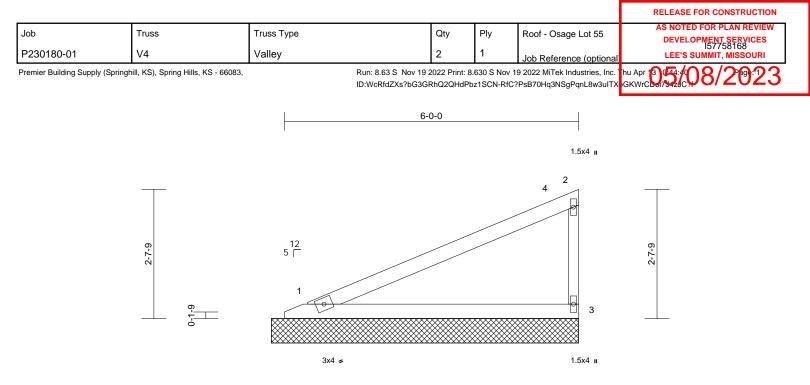
5) This truss has been designed for a 10.0 psf bottom

chord live load nonconcurrent with any other live loads.





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| 6-0-0 |
|-------|
| |

| 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 | 0.79 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.41 | 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 | IRC2018/TPI2014 | Matrix-P | | | | | | | Weight: 19 lb | FT = 20% |

| LUMBER | 2 |
|--------|---|
|--------|---|

Scale = 1:23.5

| TOP CHORD | 2x4 SP N | 0.2 |
|-----------|-------------------------|-----------------------------------|
| BOT CHORD | 2x4 SP N | 0.2 |
| WEBS | 2x3 SPF I | No.2 |
| BRACING | | |
| TOP CHORD | Sheathed verticals. | l or 6-0-0 oc purlins, except end |
| BOT CHORD | Rigid ceili bracing. | ing directly applied or 10-0-0 oc |
| REACTIONS | (size) | 1=6-3-3, 3=6-3-3 |
| | Max Horiz | 1=103 (LC 9) |
| | Max Uplift | 1=-39 (LC 12), 3=-60 (LC 12) |
| | Mar. 0 | 4 044 (104) 0 044 (104) |

| | Max Grav 1=244 (LC 1), 3=244 (LC 1) |
|-----------|-------------------------------------|
| FORCES | (lb) - Maximum Compression/Maximum |
| | Tension |
| TOP CHORD | 1-2=-133/91, 2-3=-190/209 |

BOT CHORD 1-3=-45/49

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-9-8 to 5-9-8, Interior (1) 5-9-8 to 6-2-8 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
- Truss designed for wind loads in the plane of the truss 2) 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. Gable requires continuous bottom chord bearing. 3)
- Gable studs spaced at 4-0-0 oc. 4)
- 5)
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. 6)
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



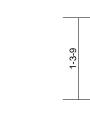
April 14,2023

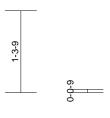


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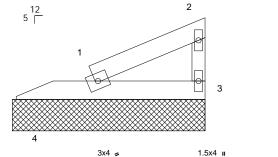
| | | | | | | RELEASE FOR CONSTRUCTION |
|----------------------------------|---|------------|-----|-----|-------------------------|---|
| Job | Truss | Truss Type | Qty | Ply | Roof - Osage Lot 55 | AS NOTED FOR PLAN REVIEW |
| P230180-01 | V5 | Valley | 2 | 1 | Job Reference (optional | DEVELOPM <u>ENT SERVICES</u> 157758169 LEE'S SUMMIT, MISSOURI |
| Premier Building Supply (Springh | remier Building Supply (Springhill, KS), Spring Hills, KS - 66083, Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. ID:WcRfdZXs?bG3GRhQ2QHdPbz1SCN-RfC?PsB70Hq3NSgPqnL8w3ulT | | | | | |







end



3-0-0

| Scale | = 1 | 1:1 | 8.3 |
|-------|-----|-----|-----|
|-------|-----|-----|-----|

| Scale = 1:18.3 | | | | | | | | | | | _ | |
|----------------|-------|-----------------|-----------------|----------|------|-----------|------|-------|--------|-----|--------------|----------|
| 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 | TC | 0.06 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.02 | 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 | IRC2018/TPI2014 | Matrix-P | | | | | | | Weight: 8 lb | FT = 20% |
| LUMBER | | | | | | | | | | | | |

| TOP CHORD | 2x4 SP N | o.2 | |
|-----------|-------------------------|------------------------|-------------|
| BOT CHORD | 2x4 SP N | 0.2 | |
| WEBS | 2x3 SPF I | No.2 | |
| BRACING | | | |
| TOP CHORD | Sheathed verticals. | l or 3-1-6 oc purlins, | except end |
| BOT CHORD | Rigid ceili bracing. | ing directly applied o | r 10-0-0 oc |
| REACTIONS | (size) | 1=3-0-12, 3=3-0-12 | , 4=3-0-12 |
| | Max Horiz | 4=43 (LC 9) | |
| | Max Liplift | 2 22 (1 C 12) | |

| Max Uplift | 3=-23 (LC 12) |
|------------|-----------------------------------|
| Max Grav | 1=92 (LC 1), 3=71 (LC 1), 4=9 (LC |
| | 3) |

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-60/40, 2-3=-58/78 BOT CHORD 1-4=-96/58, 1-3=-19/21

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 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. Gable requires continuous bottom chord bearing. 3)
- 4) Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom 5)
- chord live load nonconcurrent with any other live loads. 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and
- R802.10.2 and referenced standard ANSI/TPI 1. LOAD CASE(S) Standard

OF MISSO E SCOTT M. SEVIER NUMBER 0 PE-2001018807 FRSSIONAL EN

April 14,2023

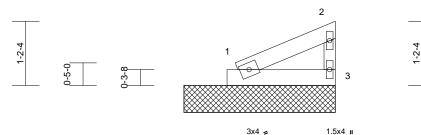


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| | | | | | | RELEASE FOR CONSTRUCTION |
|---------------------------------|----------------------------------|------------|------------------------|-------------|-------------------------|---|
| Job | Truss | Truss Type | Qty | Ply | Roof - Osage Lot 55 | |
| P230180-01 | V6 | Valley | 2 | 1 | Job Reference (optional | DEVELOPM <u>ENT SERVICES</u> 157758170 LEE'S SUMMIT, MISSOURI |
| Premier Building Supply (Spring | nill KS) Spring Hills KS - 66083 | Pup: 9.62 | S Nov 10 2022 Print: 9 | 620 S Nov 1 | | |

n: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Inc ID:WcRfdZXs?bG3GRhQ2QHdPbz1SCN-RfC?PsB70Hq3NSgPqnL8w3uITX GKWrCber79424C190724997249972499724997249972499724973





1.5x4 u

2-0-0

Scolo - 1.21 2

| Scale = 1:21.3 | | | | | | | | | | | | |
|-------------------------|---|---------------------------|-----------------------|----------------|------|-------------------------|-----------|------------|---------------|------------|----------------|---|
| Loading TCLL (roof) | (psf) 25.0 | Spacing Plate Grip DOL | 2-0-0 1.15 | CSI TC | 0.06 | DEFL Vert(LL) | in n/a | (loc) - | l/defl n/a | L/d 999 | PLATES MT20 | GRIP 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.03 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL BCDL | 0.0 10.0 | Rep Stress Incr Code | NO IRC2018/TPI2014 | WB Matrix-P | 0.00 | Horiz(TL) | 0.00 | 3 | n/a | n/a | Weight: 6 lb | FT = 20% |
| BCDL | 10.0 | Code | IRC2010/1F12014 | Maurix-P | | | | | | | weight. 6 lb | FT = 20% |
| LUMBER | | | | | | | | | | | | |
| TOP CHORD | | | | | | | | | | | | |
| BOT CHORD | | | | | | | | | | | | |
| NEBS | 2x3 SPF No.2 | | | | | | | | | | | |
| | 0 | | | | | | | | | | | |
| TOP CHORD | Sheathed or 2-10-3 verticals. | oc purlins, except e | end | | | | | | | | | |
| BOT CHORD | | applied or 10-0-0 o | c | | | | | | | | | |
| | bracing. | | • | | | | | | | | | |
| REACTIONS | • | 3=2-9-9 | | | | | | | | | | |
| | Max Horiz 1=38 (LC | 9) | | | | | | | | | | |
| | Max Uplift 1=-11 (LC | 2 12), 3=-20 (LC 12) | | | | | | | | | | |
| | Max Grav 1=76 (LC | 1), 3=76 (LC 1) | | | | | | | | | | |
| FORCES | (lb) - Maximum Com | pression/Maximum | | | | | | | | | | |
| | Tension | | | | | | | | | | | |
| TOP CHORD | | /73 | | | | | | | | | | |
| BOT CHORD | 1-3=-17/18 | | | | | | | | | | | |
| NOTES | 0 | <i>(</i>) | | | | | | | | | | |
| | CE 7-16; Vult=115mph mph; TCDL=6.0psf; BC | | | | | | | | | | | |
| | Cat. II; Exp C; Enclose | | ne) | | | | | | | | | |
| | one and C-C Exterior(2 | | | | | | | | | | | |
| | exposed ; end vertical l | | | | | | | | | | | |
| | C-C for members and f | | r | | | | | | | | | and the second se |
| | shown; Lumber DOL= | 1.60 plate grip | | | | | | | | | OF I | APRIL OF |
| DOL=1.60 2) Truss de | u signed for wind loads ir | a tha plana of tha tru | 100 | | | | | | | 6 | TATE OF | MISS OF |
| | studs exposed to wind | | | | | | | | | 6 | A.M. | N.S. |
| | dard Industry Gable En | | | | | | | | | B | S/ BCOI | |
| | or consult qualified building designer as per ANSI/TPI 1. | | | | | | | | | | | |
| | quires continuous botto | m chord bearing. | | | | | | | | an | | 0 \ ≭ Й |
| | ids spaced at 2-0-0 oc. | | | | | | | | | NY . | 115 | |
| 5) This truss | has been designed for | r a 10.0 psf bottom | | | | | | | - | | NUM | |

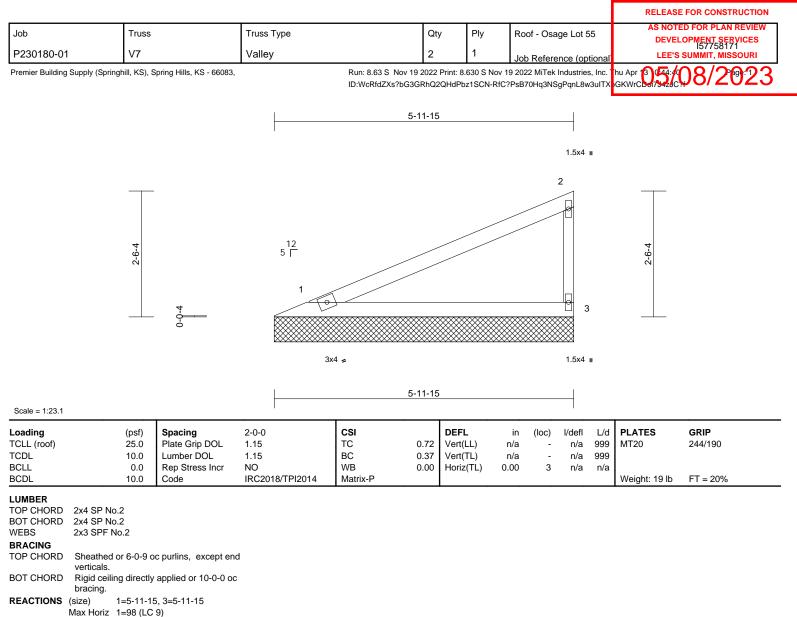
- chord live load nonconcurrent with any other live loads. This truss is designed in accordance with the 2018 6)
- International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard





WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



| | | 1=-37 (LC 12), 3=-57 (LC 12) 1=233 (LC 1), 3=233 (LC 1) |
|--------|---------|--|
| FORCES | | imum Compression/Maximum |
| | 1-2126/ | 86 2-3-182/200 |

TOP CHORD 1-2=-126/86, 2-3=-182/200 BOT CHORD 1-3=-43/46

NOTES

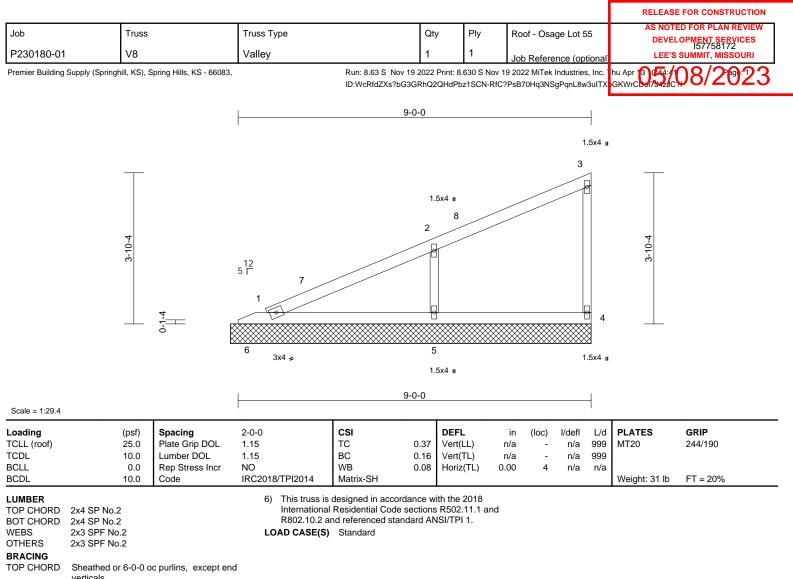
- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss 2) 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.
- Gable requires continuous bottom chord bearing. 3) Gable studs spaced at 4-0-0 oc.
- 4) 5)
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. This truss is designed in accordance with the 2018 6)
- International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard





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| | verticals. | |
|-----------|-------------------------|------------------------------------|
| BOT CHORD | Rigid ceili bracing. | ng directly applied or 10-0-0 oc |
| REACTIONS | (size) | 1=9-2-6, 4=9-2-6, 5=9-2-6, 6=9-2-6 |
| | Max Horiz | 6=159 (LC 9) |
| | Max Uplift | 4=-24 (LC 9), 5=-139 (LC 12), |
| | | 6=-88 (LC 3) |
| | Max Grav | 1=221 (LC 3), 4=129 (LC 1), 5=450 |
| | | (LC 1), 6=-26 (LC 8) |
| FORCES | (lb) - Max | imum Compression/Maximum |
| | Tension | |
| TOP CHORD | 1-2=-242/ | 148, 2-3=-104/77, 3-4=-99/105 |

BOT CHORD1-6=-299/184, 1-5=-65/71, 4-5=-65/71WEBS2-5=-357/315

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-11-13 to 5-11-13, Interior (1) 5-11-13 to 9-1-11 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.
 Gable requires continuous bottom chord bearing.

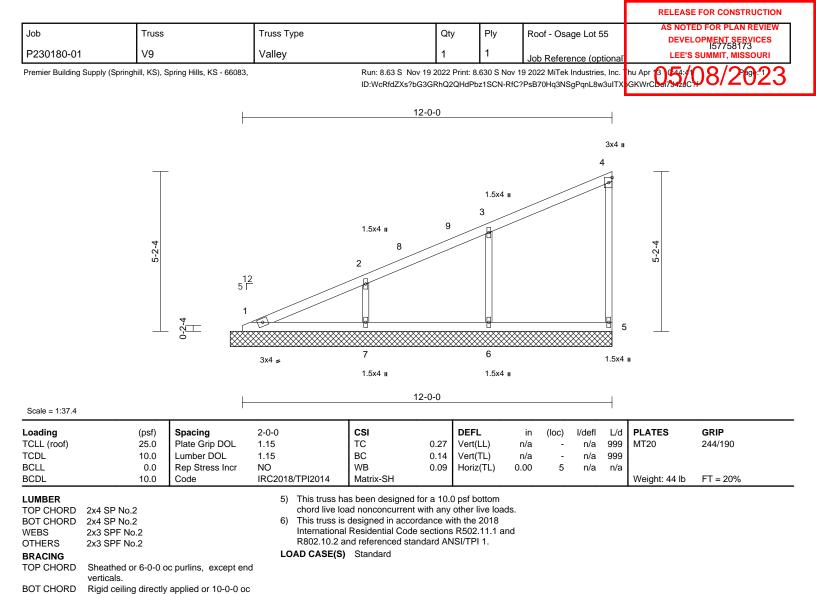
4) Gable studs spaced at 4-0-0 oc.

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

April 14,2023



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



 REACTIONS
 (size)
 1=12-4-12, 5=12-4-12, 6=12-4-12, 7=12-4-12

 Max Horiz
 1=219 (LC 9)

 Max Uplift
 5=-32 (LC 9), 6=-110 (LC 12),

7=-109 (LC 12) Max Grav 1=140 (LC 20), 5=143 (LC 1), 6=387 (LC 1), 7=381 (LC 1) FORCES (Ib) - Maximum Compression/Maximum Tension

| TOP CHORD | 1-2=-302/177, 2-3=-218/139, 3-4=-117/88, 4-5=-110/101 |
|-----------|---|
| BOT CHORD | 1-7=-84/93, 6-7=-84/93, 5-6=-84/93 |
| WEBS | 3-6=-305/238, 2-7=-283/210 |

NOTES

 Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-9-1 to 5-9-1, Interior (1) 5-9-1 to 12-4-2 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

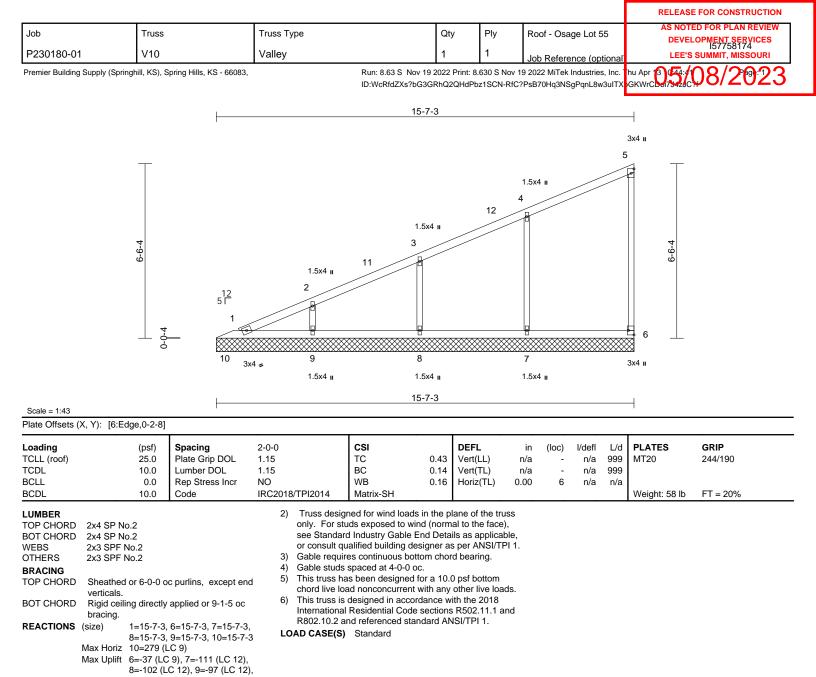
 Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 Gable requires continuous bottom chord bearing.

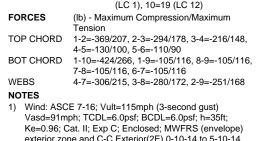
4) Gable studs spaced at 4-0-0 oc.

April 14,2023



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10=-43 (LC 1)

Max Grav

1=169 (LC 20), 6=142 (LC 1),

7=393 (LC 1), 8=360 (LC 1), 9=325

Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-10-14 to 5-10-14, Interior (1) 5-10-14 to 15-6-8 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

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



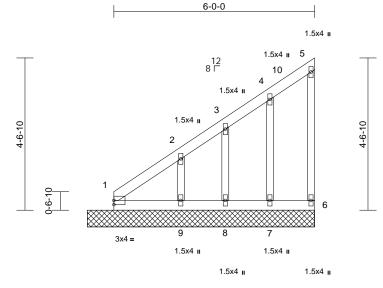
April 14,2023



| | | | | | | RELEASE FOR CONSTRUCTION |
|----------------------------------|--------------------|---------------|--------------|-----|-------------------------|---|
| Job | Truss | Truss Type | Qty | Ply | Roof - Osage Lot 55 | AS NOTED FOR PLAN REVIEW |
| P230180-01 | V11 | Valley | 1 | 1 | Job Reference (optional | DEVELOPMENT SERVICES 157758175 LEE'S SUMMIT, MISSOURI |
| Premier Building Supply (Springh | Run: 8.63 S Nov 19 | 2022 Print: 8 | .630 S Nov 1 | | | |

ID:WcRfdZXs?bG3GRhQ2QHdPbz1SCN-RfC?PsB70Hq3NSgPqnL8w3uITX GKWrCbol73-2aCHO/2023





6-0-0

| Scale = | 1:34.5 |
|---------|--------|
|---------|--------|

| Loading TCLL (roof) TCDL BCLL BCDL | (psf) 25.0 10.0 0.0 10.0 | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code | 2-0-0 1.15 1.15 NO IRC2018/TPI2014 | CSI TC BC WB Matrix-P | 0.34 0.03 0.05 | DEFL Vert(LL) Vert(TL) Horiz(TL) | in n/a n/a 0.00 | (loc) - - 6 | l/defl n/a n/a n/a | L/d 999 999 n/a | PLATES MT20 Weight: 28 lb | GRIP 244/190 FT = 20% |
|--|--|---|---|--|--|---|--------------------------|----------------------|-----------------------------|--------------------------|---------------------------------|------------------------------------|
| | 8=6-9-9, 9 Max Horiz 1=172 (LC Max Uplift 1=-28 (LC (LC 12), 8 12) Max Grav 1=117 (LC | v applied or 10-0-0 o 6=6-9-9, 7=6-9-9, 9=6-9-9 C 9) C 8), 6=-29 (LC 9), 7 8=-43 (LC 12), 9=-9 C 20), 6=57 (LC 19) C 19), 8=109 (LC 19 | 4) Gable re 5) Gable st 6) This trus chord liv 7) This trus Internati R802.10 ac LOAD CASI 7=-50 5 (LC | s are 1.5x4 MT20 un quires continuous bu uds spaced at 1-4-0 s has been designed e load nonconcurrer s is designed in acc onal Residential Coo .2 and referenced st :(S) Standard | ottom chor oc. d for a 10.0 nt with any ordance w de sections | d bearing.) psf bottom other live loa ith the 2018 ; R502.11.1 a | ds. | | | | | |
| FORCES | (lb) - Maximum Com Tension | npression/Maximum | | | | | | | | | | |
| TOP CHORD | 1-2=-346/222, 2-3=- 4-5=-96/91, 5-6=-71 | | 126, | | | | | | | | | |
| BOT CHORD | 1-9=-82/89, 8-9=-82 6-7=-82/89 | 2/89, 7-8=-82/89, | | | | | | | | | | an |
| WEBS | 4-7=-105/103, 3-8=- | -87/82, 2-9=-152/192 | 2 | | | | | | | | TEOF | MISS |
| NOTES | | (2 cocord such) | | | | | | | | 4 | 9.20 | N'SON |

WEBS

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-11-11 to 5-11-11, Interior (1) 5-11-11 to 6-8-11 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.

HESSIONAL E April 14,2023

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WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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/TP11** Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



SCOTT M.

SEVIER

NUMBER

PE-2001018807

| | | | | | RELEASE FOR CONSTRUCTION |
|---|--|-------------------------|----------------------------|--|---|
| Job Truss | Truss Type | Qty | Ply | Roof - Osage Lot 55 | AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 157758176 |
| P230180-01 V12 | Valley | 1 | 1 | Job Reference (optiona | |
| Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, | Run: 8.63 S_Nov 19 J ID:WcRfdZXs?bG3G | 2022 Print: RhQ2QHdF | 8.630 S Nov Pbz1SCN-RfC | 19 2022 MiTek Industries, Inc. C?PsB70Hq3NSgPqnL8w3uIT> | hu Apr 1354:08/2023 |
| | 5-7 | -0 | | | |
| | | | | 1.5x4 u | |
| 3.8-15 | 8 ¹² 1 4 3x4 <i>z</i> 5-7 | | | 2 5 6 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 | - |

| | | I | | | | | 1 | | | | |
|-------|-----------------|--|--|---|--|--|---|---|---|---|--|
| (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
| 25.0 | Plate Grip DOL | 1.15 | тс | 0.62 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| 10.0 | Lumber DOL | 1.15 | BC | 0.23 | Vert(TL) | n/a | - | n/a | 999 | | |
| 0.0 | Rep Stress Incr | NO | WB | 0.00 | Horiz(TL) | 0.00 | 3 | n/a | n/a | | |
| 10.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | Weight: 20 lb | FT = 20% |
| | 10.0 0.0 | 25.0Plate Grip DOL10.0Lumber DOL0.0Rep Stress Incr | 25.0Plate Grip DOL1.1510.0Lumber DOL1.150.0Rep Stress IncrNO | 25.0 Plate Grip DOL 1.15 TC 10.0 Lumber DOL 1.15 BC 0.0 Rep Stress Incr NO WB | 25.0 Plate Grip DOL 1.15 TC 0.62 10.0 Lumber DOL 1.15 BC 0.23 0.0 Rep Stress Incr NO WB 0.00 | 25.0 Plate Grip DOL 1.15 TC 0.62 Vert(LL) 10.0 Lumber DOL 1.15 BC 0.23 Vert(TL) 0.0 Rep Stress Incr NO WB 0.00 Horiz(TL) | 25.0 Plate Grip DOL 1.15 TC 0.62 Vert(LL) n/a 10.0 Lumber DOL 1.15 BC 0.23 Vert(TL) n/a 0.0 Rep Stress Incr NO WB 0.00 Horiz(TL) 0.00 | 25.0 Plate Grip DOL 1.15 TC 0.62 Vert(LL) n/a - 10.0 Lumber DOL 1.15 BC 0.23 Vert(TL) n/a - 0.0 Rep Stress Incr NO WB 0.00 Horiz(TL) 0.00 3 | 25.0 Plate Grip DOL 1.15 TC 0.62 Vert(LL) n/a - n/a 10.0 Lumber DOL 1.15 BC 0.23 Vert(TL) n/a - n/a 0.0 Rep Stress Incr NO WB 0.00 Horiz(TL) 0.00 3 n/a | 25.0 Plate Grip DOL 1.15 TC 0.62 Vert(LL) n/a - n/a 999 10.0 Lumber DOL 1.15 BC 0.23 Vert(TL) n/a - n/a 999 0.0 Rep Stress Incr NO WB 0.00 Horiz(TL) 0.00 3 n/a n/a | 25.0 Plate Grip DOL 1.15 TC 0.62 Vert(LL) n/a - n/a 999 MT20 10.0 Lumber DOL 1.15 BC 0.23 Vert(TL) n/a - n/a 999 0.0 Rep Stress Incr NO WB 0.00 Horiz(TL) 0.00 3 n/a n/a |

| LUMBER | | | J | Μ | в | Е | R |
|--------|--|--|---|---|---|---|---|
|--------|--|--|---|---|---|---|---|

| LUWBER | | |
|-----------|-------------------------|-----------------------------------|
| TOP CHORD | 2x4 SP N | 0.2 |
| BOT CHORD | 2x4 SP N | 0.2 |
| WEBS | 2x3 SPF I | No.2 |
| BRACING | | |
| TOP CHORD | Sheathed verticals. | l or 5-7-7 oc purlins, except end |
| BOT CHORD | Rigid ceili bracing. | ing directly applied or 10-0-0 oc |
| REACTIONS | (size) | 1=5-7-1, 3=5-7-1, 4=5-7-1 |
| | Max Horiz | 4=138 (LC 9) |
| | Max Uplift | 3=-76 (LC 12), 4=-213 (LC 3) |
| | Max Grav | 1=398 (LC 3), 3=225 (LC 19), |

4=-64 (LC 8) FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-190/141, 2-3=-188/213 BOT CHORD 1-4=-289/196, 1-3=-66/72

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 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. Gable requires continuous bottom chord bearing. 3)
- 4) Gable studs spaced at 4-0-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and
- R802.10.2 and referenced standard ANSI/TPI 1. LOAD CASE(S) Standard

OF MISSOL TE SCOTT M. SEVIER NUMBER OFFESSIONAL ET PE-2001018807 April 14,2023



| | | | | | | | RELEASE FOR CONSTRUCTION |
|-----------------------------|---|------------|---|-------------------------|----------------------------|--|---|
| Job | Truss | Truss Type | | Qty | Ply | Roof - Osage Lot 55 | AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 157758177 |
| P230180-01 | V13 | Valley | | 1 | 1 | Job Reference (optional | |
| Premier Building Supply (Sp | oringhill, KS), Spring Hills, KS - 66083, | | Run: 8.63 S Nov 19 2 ID:WcRfdZXs?bG3GI | 2022 Print: RhQ2QHdl | 8.630 S Nov Pbz1SCN-RfC | 19 2022 MiTek Industries, Inc. C?PsB70Hq3NSgPqnL8w3uITX | hu Apr 1354/20123 GKWrC50175426CH |
| | | | 4-(| 0-0 | | _ | |
| | | | | | | 1.5x4 u | |
| | 2-10-15 | | 812 | | 2 | 2-10-15 | |
| | 75.24 | | | | | 3 | |
| | | | 3x4 🍃 | | | 1.5x4 u | |
| Scale = 1:24.5 | | | 4-(| 0-0 | | _ | |

| 00010 = 1.24.0 | | | | - | | | | | | | | |
|----------------|-------------|-----------------|-----------------|----------|------|-----------|------|-------|--------|-----|---------------|----------|
| 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 | 0.36 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.18 | 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 | IRC2018/TPI2014 | Matrix-P | | | | | | | Weight: 15 lb | FT = 20% |
| | | | | | | | | | | | <u> </u> | |
| LUMBER | 2x4 SP No 2 | | | | | | | | | | | |

| | 274 01 11 | 0.2 |
|-----------|-------------------------|-----------------------------------|
| BOT CHORD | 2x4 SP N | 0.2 |
| WEBS | 2x3 SPF I | No.2 |
| BRACING | | |
| TOP CHORD | Sheathed verticals. | l or 4-4-7 oc purlins, except end |
| BOT CHORD | Rigid ceili bracing. | ing directly applied or 10-0-0 oc |
| REACTIONS | (size) | 1=4-4-1, 3=4-4-1 |
| | Max Horiz | 1=104 (LC 9) |
| | Max Uplift | 1=-16 (LC 12), 3=-53 (LC 12) |
| | Max Grav | 1=169 (LC 1), 3=183 (LC 19) |

| | Max 014V 1=105 (LO 1), 5=105 (LO 15) |
|-----------|--------------------------------------|
| FORCES | (lb) - Maximum Compression/Maximum |
| | Tension |
| TOP CHORD | 1-2=-146/108, 2-3=-145/169 |
| BOT CHORD | 1-3=-50/55 |

NOTES

- 1)
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 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.
- Gable requires continuous bottom chord bearing. 3) Gable studs spaced at 4-0-0 oc. 4)
- 5)
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. 6)
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

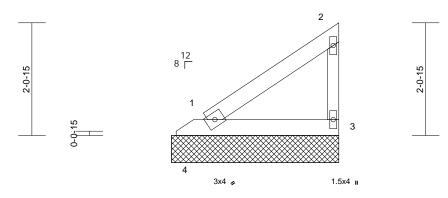




| | | | | | | RELEASE FOR CONSTRUCTION |
|----------------------------------|-------------------------------------|------------|-----|-----|---|---|
| Job | Truss | Truss Type | Qty | Ply | Roof - Osage Lot 55 | AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 157758178 |
| P230180-01 | V14 | Valley | 1 | 1 | Job Reference (optional | |
| Premier Building Supply (Springh | ill, KS), Spring Hills, KS - 66083, | | | | 9 2022 MiTek Industries, Inc. PsB70Hq3NSgPqnL8w3uITX | |







| Scale = 1:21.2 | |
|----------------|--|
|----------------|--|

| 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 | 0.13 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.05 | 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 | IRC2018/TPI2014 | Matrix-P | | | | | | | Weight: 10 lb | FT = 20% |

3-0-0

| LUM | в | =R |
|-----|---|----|
|-----|---|----|

| LOWIDER | | |
|-----------|------------------------|-----------------------------------|
| TOP CHORD | 2x4 SP N | 0.2 |
| BOT CHORD | 2x4 SP N | 0.2 |
| WEBS | 2x3 SPF | No.2 |
| BRACING | | |
| TOP CHORD | Sheatheo verticals. | I or 3-1-7 oc purlins, except end |
| BOT CHORD | Rigid ceil bracing. | ing directly applied or 10-0-0 oc |
| REACTIONS | (size) | 1=3-1-1, 3=3-1-1, 4=3-1-1 |
| | Max Horiz | 4=70 (LC 9) |
| | Max Uplift | 3=-37 (LC 12), 4=-45 (LC 3) |
| | Max Grav | 1=141 (LC 3), 3=110 (LC 19), |
| | | 4=-14 (LC 8) |
| FORCES | (lb) - Max | imum Compression/Maximum |
| | Tension | |
| TOP CHORD | 1-2=-102 | /76, 2-3=-97/117 |
| BOT CHORD | 1-4=-155/ | /104, 1-3=-34/36 |

NOTES

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 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. Gable requires continuous bottom chord bearing. 3)
- 4) Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom 5)
- chord live load nonconcurrent with any other live loads. 6) This truss is designed in accordance with the 2018
- International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard





| | | | | | | RELEASE FOR CONSTRUCTION |
|---------------------------------|----------------------------------|---------------------|---------------|-------------|------------------------------|-----------------------------------|
| Job | Truss | Truss Type | Qty | Plv | Roof - Osage Lot 55 | AS NOTED FOR PLAN REVIEW |
| | | | | Ĺ | | DEVELOPMENT SERVICES 157758179 |
| P230180-01 | V15 | Valley | 1 | 1 | Job Reference (optional | LEE'S SUMMIT, MISSOURI |
| Premier Building Supply (Spring | hill KS) Spring Hills KS - 66083 | Rup: 8.63 S. Nov 19 | 2022 Print: 8 | 630 S Nov 1 | 9 2022 MiTek Industries Inc. | |

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 44:40 8/269:23 ID:WcRfdZXs?bG3GRhQ2QHdPbz1SCN-RfC?PsB70Hq3NSgPqnL8w3uITX GKWrCbd73-22C: 8/269:23

1.5x4 🛚

1-10-1 8

1

е



1-2-15



1.5x4 🛚

2

Ø

1-10-1

3x4 🧳

Scale = 1:18

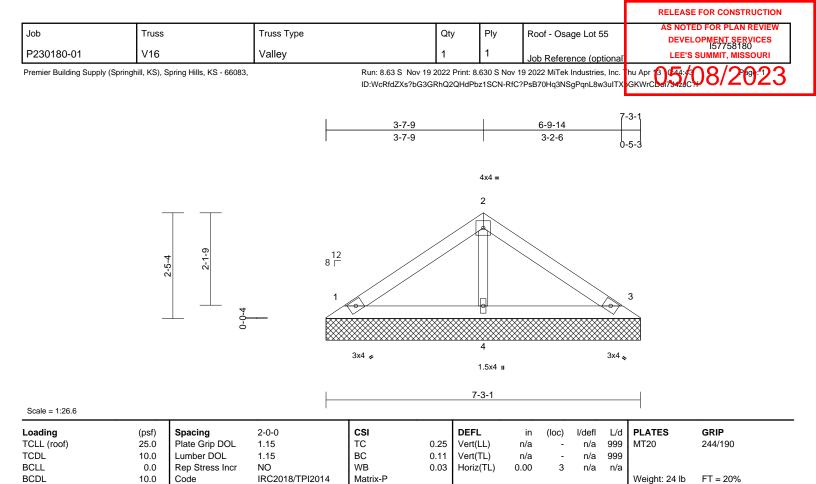
| Loading TCLL (roof) TCDL BCLL | (psf) 25.0 10.0 0.0 | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr | 2-0-0 1.15 1.15 NO | CSI TC BC WB | 0.04 0.02 0.00 | DEFL Vert(LL) Vert(TL) Horiz(TL) | in n/a n/a 0.00 | (loc) - - 3 | l/defl n/a n/a n/a | L/d 999 999 n/a | PLATES MT20 | GRIP 244/190 |
|--|---|---|-----------------------------|-----------------------|----------------------|---|--------------------------|----------------------|-----------------------------|--------------------------|----------------|------------------------|
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | Weight: 6 lb | FT = 20% |
| LUMBER | | | | | | | | | | | | |
| TOP CHORD | 2x4 SP No.2 | | | | | | | | | | | |
| BOT CHORD | | | | | | | | | | | | |
| WEBS | 2x3 SPF No.2 | | | | | | | | | | | |
| BRACING | | | | | | | | | | | | |
| TOP CHORD | Sheathed or 1-10-7 | oc purlins, except e | end | | | | | | | | | |
| BOT CHORD | verticals. Rigid ceiling directly | combined on 10,0,0 a | | | | | | | | | | |
| BOICHORD | bracing. | applied of 10-0-0 0 | C | | | | | | | | | |
| REACTIONS | • | 3=1-10-1 | | | | | | | | | | |
| | Max Horiz 1=35 (LC | | | | | | | | | | | |
| | Max Uplift 1=-6 (LC | | | | | | | | | | | |
| | Max Grav 1=58 (LC | 1), 3=62 (LC 19) | | | | | | | | | | |
| FORCES | (lb) - Maximum Corr | pression/Maximum | | | | | | | | | | |
| TOP CHORD | Tension | 161 | | | | | | | | | | |
| BOT CHORD | | 01 | | | | | | | | | | |
| NOTES | 10-11/10 | | | | | | | | | | | |
| | CE 7-16; Vult=115mph | (3-second dust) | | | | | | | | | | |
| | nph; TCDL=6.0psf; BC | | | | | | | | | | | |
| | Cat. II; Exp C; Enclose | | | | | | | | | | | |
| | one and C-C Exterior(2 | | left | | | | | | | | | |
| | exposed ; end vertical C-C for members and f | | | | | | | | | | | |
| | shown; Lumber DOL= | | | | | | | | | | and | and |
| DOL=1.60 | | | | | | | | | | | F. OF | MISC |
| | signed for wind loads in | | | | | | | | | 4 | ATE OF | N Oc |
| | studs exposed to wind ard Industry Gable En | | | | | | | | | H | SCOT | TM. YEN |
| | qualified building desi | | | | | | | | | a | SEV | |
| | uires continuous botto | | | | | | | | • | Ba | | 0 |
| | ds spaced at 2-0-0 oc. | | | | | | | | | XX. | 675 | Serles |
| | has been designed fo | | | | | | | | ø | N- | NUM | BER X |
| | load nonconcurrent wi | | ds. | | | | | | | 37 | PE-2001 | 018807 |
| | is designed in accordanal Residential Code s | | nd | | | | | | | N | 11-2001 | |

International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

April 14,2023





7) This truss is designed in accordance with the 2018

R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

International Residential Code sections R502.11.1 and

| WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, DSB-89 and BCSI Building Component |
| Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601 |

LUMBER

OTHERS BRACING TOP CHORD

TOP CHORD

BOT CHORD

BOT CHORD

REACTIONS

FORCES

WEBS

1)

2)

3)

4)

5)

6)

NOTES

TOP CHORD

BOT CHORD

this design

DOL=1.60

2x4 SP No.2

2x4 SP No.2

bracing.

Max Grav

Tension

2-4=-171/91

(size)

2x3 SPF No.2

Sheathed or 6-0-0 oc purlins.

Max Horiz 1=57 (LC 9)

(LC 1)

1-2=-100/60, 2-3=-96/60

Unbalanced roof live loads have been considered for

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.

Gable requires continuous bottom chord bearing.

This truss has been designed for a 10.0 psf bottom

chord live load nonconcurrent with any other live loads.

Gable studs spaced at 2-0-0 oc.

Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 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

1-4=-12/47, 3-4=-12/47

Rigid ceiling directly applied or 10-0-0 oc

Max Uplift 1=-38 (LC 12), 3=-45 (LC 13)

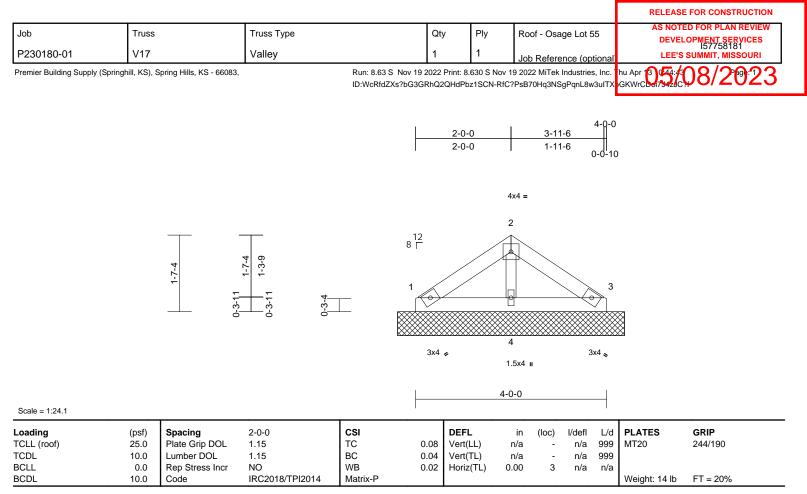
(Ib) - Maximum Compression/Maximum

1=7-3-1, 3=7-3-1, 4=7-3-1

1=161 (LC 1), 3=161 (LC 1), 4=250







| LUMBER | | |
|---|-------------------------|--|
| TOP CHORD | 2x4 SP No | 0.2 |
| BOT CHORD | 2x4 SP No | 0.2 |
| OTHERS | 2x3 SPF N | No.2 |
| BRACING | | |
| TOP CHORD | Sheathed | or 4-9-13 oc purlins. |
| BOT CHORD | Rigid ceili bracing. | ng directly applied or 10-0-0 oc |
| REACTIONS | (size) | 1=4-9-1, 3=4-9-1, 4=4-9-1 |
| | Max Horiz | 1=-35 (LC 10) |
| | Max Uplift | 1=-22 (LC 12), 3=-27 (LC 13) |
| | Max Grav | 1=95 (LC 1), 3=95 (LC 1), 4=144 (LC 1) |
| FORCES | (lb) - Max | imum Compression/Maximum |
| | Tension | |
| TOP CHORD | | 1, 2-3=-58/41 |
| BOT CHORD | | , 3-4=-7/29 |
| WEBS | 2-4=-97/6 | 0 |
| NOTES | | |
| Unbalance this design | | oads have been considered for |
| 2) Wind: ASC | | |

Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 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) 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. Gable requires continuous bottom chord bearing.
- 4) 5)

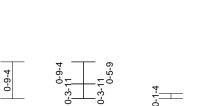
Gable studs spaced at 2-0-0 oc.

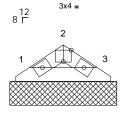
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. LOAD CASE(S) Standard





| | | | | | | RELEASE FOR CONSTRUCTION |
|------------------------------|--|------------|-----|-----|--|---|
| Job | Truss | Truss Type | Qty | Ply | Roof - Osage Lot 55 | AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES |
| P230180-01 | V18 | Valley | 1 | 1 | Job Reference (optional | DEVELOPMENT SERVICES 157758182 LEE'S SUMMIT, MISSOURI |
| Premier Building Supply (Spr | nghill, KS), Spring Hills, KS - 66083, | | | | 9 2022 MiTek Industries, Inc. ?PsB70Hq3NSgPqnL8w3uITX | |





1-0-0

1-0-0

3x4 🍫

3x4 💊

2-0-0

0 - 3 - 10

1-8-6

0-8-6

2-0-0

Scale = 1:24.3

| 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 | TC | 0.01 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.02 | 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 | IRC2018/TPI2014 | Matrix-P | | | | | | | Weight: 5 lb | FT = 20% |

| | | 0.E |
|-----------|-------------|----------------------------------|
| BOT CHORD | 2x4 SP N | 0.2 |
| BRACING | | |
| TOP CHORD | Sheathed | or 2-3-13 oc purlins. |
| BOT CHORD | Rigid ceili | ng directly applied or 10-0-0 oc |
| | bracing. | |
| REACTIONS | (size) | 1=2-3-1, 3=2-3-1 |
| | Max Horiz | 1=-12 (LC 8) |
| | Max Uplift | 1=-8 (LC 12), 3=-8 (LC 13) |
| | Max Grav | 1=61 (LC 1), 3=61 (LC 1) |
| FORCES | (lb) - Max | imum Compression/Maximum |
| | Tension | • |

TOP CHORD 1-2=-53/36, 2-3=-53/36 BOT CHORD 1-3=-13/36

NOTES

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

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 2) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 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 3) 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.
- 4) Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc. 5)
- 6) This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads. 7) This truss is designed in accordance with the 2018
- International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



April 14,2023



| | | T | | | | | RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW |
|---------------------------|--|-----------------|---|--------------------------------|---|----------------------------------|--|
| Job | Truss | Truss Type | Qty | Ply | Roof - Osag | ge Lot 55 | DEVELOPMENT SERVICES 157758183 |
| P230180-01 | V19 | Valley | 1 | 1 | | nce (optional | LEE'S SUMMIT, MISSOURI |
| Premier Building Supply (| (Springhill, KS), Spring Hills, KS - 66083 | F | Run: 8.63 S Nov 19 2022 Prin D:XO6fujX7NdLVJ9Ym54gbB | t: 8.630 S Nov pzb0C8-RfC?F | ⁻ 19 2022 MiTek I PsB70Hq3NSgPq | ndustries, Inc. InL8w3uITXbGi | hu Apr 0424408/2023 |
| | | | 4-0-0 | | | | |
| | | | | | 1.5x4 u | | |
| | 1-10-13 | $= \frac{1}{6}$ | 1.5x4 u 2 2 3x4 = 5 3x4 = | | 3 4 4 | | |
| Scale = 1:21.5 | | | 4-0-0 | | | | |
| Loading | (psf) Spacing | 2-0-0 CS | | EFL | in (loc) | l/defl L/d | PLATES GRIP |

| 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 | 0.07 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.03 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 | Rep Stress Incr | NO | WB | 0.04 | Horiz(TL) | 0.00 | 4 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | Weight: 13 lb | FT = 20% |
| LUMBER | | | This truss is | designed in accord | dance w | ith the 2018 | | | | | | |
| TOP CHORD | 2x4 SP No.2 | | | Residential Code | | | nd | | | | | |
| BOT CHORD | | | R802.10.2 a | nd referenced star | ndard AN | ISI/TPI 1. | | | | | | |
| WEBS | 2x3 SPF No.2 | | LOAD CASE(S) | Standard | | | | | | | | |
| OTHERS | 2x3 SPF No.2 | | | | | | | | | | | |
| BRACING | | | | | | | | | | | | |
| TOP CHORD | Structural wood she | | ed or | | | | | | | | | |
| | 4-6-12 oc purlins, e | | | | | | | | | | | |
| BOT CHORD | Rigid ceiling directly bracing. | applied or 10-0-0 or | | | | | | | | | | |
| REACTIONS | (size) 1=4-6-12, 6=4-6-12 | 4=4-6-12, 5=4-6-12 | , | | | | | | | | | |
| | Max Horiz 6=70 (LC | 9) | | | | | | | | | | |
| | Max Uplift 4=-12 (LC | 2 12), 5=-60 (LC 12), | | | | | | | | | | |
| | 6=-15 (LC 3) | | | | | | | | | | | |
| | Max Grav 1=69 (LC (LC 1), 6= | | =197 | | | | | | | | | |
| FORCES | (lb) - Maximum Com Tension | pression/Maximum | | | | | | | | | | |
| TOP CHORD | 1-2=-129/77, 2-3=-5 | 3/40, 3-4=-52/64 | | | | | | | | | | |
| BOT CHORD | 1-6=-158/95, 1-5=-3 | 1/34, 4-5=-31/34 | | | | | | | | | | |
| WEBS | 2-5=-155/171 | | | | | | | | | | | |
| NOTES | | | | | | | | | | | | |
| | CE 7-16; Vult=115mph | | | | | | | | | | | The |
| | nph; TCDL=6.0psf; BC | | | | | | | | | | OF I | ALC: NO |
| | Cat. II; Exp C; Enclose one and C-C Exterior(2 | | | | | | | | | | ALE OF I | NIS'S |
| | exposed ; end vertical | | en | | | | | | | 6 | THE OF I | N.S |
| | C-C for members and f | | | | | | | | | R | SCOT | TM. YEY |
| reactions | shown; Lumber DOL= | 1.60 plate grip | | | | | | | | R | - SEV | IER \Y |
| | DOL=1.60 | | | | | | | 1 * 12 | | | | |
| | | | | | | | | 0 1 8 | | | | |
| | only. For study exposed to wind (normal to the face), | | | | | | | | Carlier 2 | | | |
| | see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1. Gable requires continuous bottom chord bearing. | | | | | | | 018807 | | | | |
| | uires continuous botto | | | | | | | | | N | 11-2001 | IZ A |
| | ds spaced at 2-0-0 oc. | 5 | | | | | | | | X | 1ºSer | G A |
| | has been designed fo | | | | | | | | | | CSSIONA | LEFA |
| chord live | load nonconcurrent wi | th any other live load | ds. | | | | | | | | ALL ALL | TTTT |

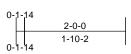
April 14,2023

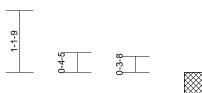


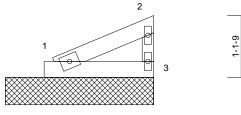
| | | | | | | | RELEASE FOR CONSTRUCTION |
|-----------------------------|--------------------------------|------------|-----------------------|-------------|---------------|-------------------------------|-----------------------------------|
| Job | Truss | Truss Type | | Qty Ply | | Roof - Osage Lot 55 | AS NOTED FOR PLAN REVIEW |
| 000 | 11055 | indos rype | | Guy | l''y | 1001 - Osage Lot 35 | DEVELOPMENT SERVICES 157758184 |
| P230180-01 | V20 | Valley | | 1 | 1 | Job Reference (optional | |
| Promior Building Supply (Sp | vinghill KS) Spring Hills KS 6 | 6083 | Bup: 9.62 S. Nov 10.1 | 0022 Drint: | 8 620 S Nov 1 | 0 2022 MiTok Industrios, Inc. | |

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 44:40 8/269:123 ID:xzonWIZ0fYj4AcGLmCEIpSzb0C5-RfC?PsB70Hq3NSgPqnL8w3uITXbGKwrCDoi794239? 3 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industr







3x4 🚅

2-0-0

1.5x4 u

Scale = 1:21.1

| Scale = 1:21.1 | | | | | | | | | | | | |
|---|--|---|--|-----------------------------------|----------------------|--|--------------------------|----------------------|-----------------------------|--------------------------|--------------------------------|------------------------------------|
| Loading TCLL (roof) TCDL BCLL BCDL | (psf) 25.0 10.0 0.0 10.0 | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code | 2-0-0 1.15 1.15 NO IRC2018/TPI2014 | CSI TC BC WB Matrix-P | 0.07 0.03 0.00 | DEFL Vert(LL) Vert(TL) Horiz(TL) | in n/a n/a 0.00 | (loc) - - 3 | l/defl n/a n/a n/a | L/d 999 999 n/a | PLATES MT20 Weight: 6 lb | GRIP 244/190 FT = 20% |
| BOT CHORD : WEBS : BRACING TOP CHORD BOT CHORD REACTIONS (s M | 2x4 SP No.2 2x3 SPF No.2 2x3 SPF No.2 Structural wood she 2-8-8 oc purlins, ex Rigid ceiling directly bracing. size) 1=2-8-8, 3 lax Horiz 1=35 (LC lax Uplit 1=-12 (LC lax Grav 1=77 (LC | cept end verticals. applied or 10-0-0 or 3=2-8-8 11) 2 12), 3=-19 (LC 12) | C | | | | | | | | | |
| TOP CHORD BOT CHORD NOTES | FORCES(lb) - Maximum Compression/Maximum TensionTOP CHORD1-2=-47/32, 2-3=-60/71BOT CHORD1-3=-16/17NOTES | | | | | | | | | | | |
| Vasd=91mpl Ke=0.96; Ca exterior zone and right exp exposed;C-0 | : 7-16; Vult=115mph h; TCDL=6.0psf; BC tt. II; Exp C; Enclose e and C-C Exterior(2 boosed ; end vertical C for members and f own; Lumber DOL= | DL=6.0psf; h=35ft; d; MWFRS (envelop E) zone; cantilever b left and right orces & MWFRS for | left | | | | | | | | A OF | MISS |
| | | | | | | | | | | | | |

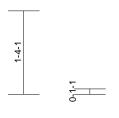
April 14,2023

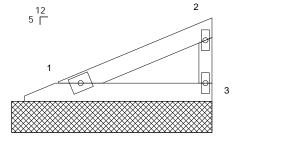


| | | | | | | | RELEASE FOR CONSTRUCTION |
|----------------------------|---|------------|----------------------|-----|-----|-------------------------|---|
| Job | Truss | Truss Type | | Qty | Ply | Roof - Osage Lot 55 | AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 157758185 |
| P230180-01 | V21 | Valley | | 2 | 1 | Job Reference (optional | |
| Premier Building Supply (S | Run: 8.63 S Nov 19 2 ID:uLwYxRbGBAzoPv | | hu Apr 1054:408/2023 | | | | |
| | | | | | | | |









3x4 🚅

1.5x4 🛚

| Scale | = | 1:18.5 |
|-------|---|--------|

Loading TCLL (roof) TCDI BCLL BCDL

| | | | | 3-0-0 |) | _ | | | | | |
|-------|-----------------|-----------------|----------|-------|-----------|------|-------|--------|-----|--------------|----------|
| | | | | | | | | | | | |
| (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
| 25.0 | Plate Grip DOL | 1.15 | TC | 0.13 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| 10.0 | Lumber DOL | 1.15 | BC | 0.07 | Vert(TL) | n/a | - | n/a | 999 | | |
| 0.0 | Rep Stress Incr | NO | WB | 0.00 | Horiz(TL) | 0.00 | 3 | n/a | n/a | | |
| 10.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | Weight: 9 lb | FT = 20% |

LUMBER

| 2x4 SP No.2 |
|--|
| 2x4 SP No.2 |
| 2x3 SPF No.2 |
| |
| Structural wood sheathing directly applied or |
| 3-2-8 oc purlins, except end verticals. |
| Rigid ceiling directly applied or 10-0-0 oc bracing. |
| |

| REACTIONS | (size) | 1=3-2-8, 3=3-2-8 | | | |
|-----------|------------------------------------|---------------------------------------|--|--|--|
| | Max Horiz | 1=45 (LC 9) | | | |
| | Max Uplift | 1=-17 (LC 12), 3=-26 (LC 12) | | | |
| | Max Grav | 1=106 (LC 1), 3=106 (LC 1) | | | |
| FORCES | (lb) - Maximum Compression/Maximum | | | | |
| | Tension | | | | |
| TOPOLIOPP | 4 0 50/4 | a a a a a a a a a a a a a a a a a a a | | | |

| TOP CHORD | 1-2=-59/40, 2-3=-82/94 |
|-----------|------------------------|
| BOT CHORD | 1-3=-20/21 |

NOTES

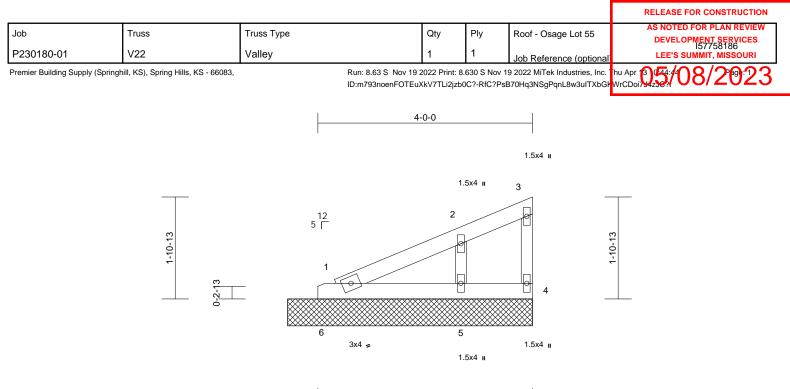
- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions 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.
- Gable requires continuous bottom chord bearing. 3) Gable studs spaced at 2-0-0 oc.
- 4)
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. 5) This truss is designed in accordance with the 2018 6)
- International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



April 14,2023





| 4-0-0 | |
|-------|--|
| | |

| 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 | 0.09 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.04 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 | Rep Stress Incr | NO | WB | 0.05 | Horiz(TL) | 0.00 | 4 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | Weight: 14 lb | FT = 20% |

| LOWIDEN | | | | | | | | |
|-----------|--|--|--|--|--|--|--|--|
| TOP CHORD | 2x4 SP N | 0.2 | | | | | | |
| BOT CHORD | 2x4 SP No.2 | | | | | | | |
| WEBS | 2x3 SPF I | 2x3 SPF No.2 | | | | | | |
| OTHERS | 2x3 SPF I | No.2 | | | | | | |
| BRACING | | | | | | | | |
| TOP CHORD | | Structural wood sheathing directly applied or 4-6-12 oc purlins, except end verticals. | | | | | | |
| BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing. | | | | | | | |
| REACTIONS | (size) | 1=4-6-12, 4=4-6-12, 5=4-6-12, 6=4-6-12 | | | | | | |
| | Max Horiz | 6=70 (LC 9) | | | | | | |
| | Max Uplift | 4=-6 (LC 9), 5=-67 (LC 12), 6=-60 (LC 3) | | | | | | |
| | Max Grav | 1=138 (LC 3), 4=22 (LC 1), 5=208 (LC 1), 6=-18 (LC 8) | | | | | | |
| FORCES | (lb) - Max Tension | (Ib) - Maximum Compression/Maximum | | | | | | |
| TOP CHORD | 1-2=-118/ | /74, 2-3=-42/30, 3-4=-22/25 | | | | | | |
| BOT CHORD | 1-6=-158/ | /95, 1-5=-31/34, 4-5=-31/34 | | | | | | |
| WEBS | 2-5=-167/ | 2-5=-167/183 | | | | | | |
| | | | | | | | | |

NOTES

Scale = 1:21.5

LUMBER

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 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) Gable requires continuous bottom chord bearing.

4) Gable studs spaced at 1-4-0 oc.

 This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 LOAD CASE(S) Standard



April 14,2023

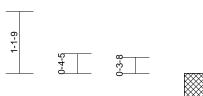


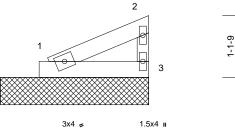
| | | | | | | | RELEASE FOR CONSTRUCTION |
|--|-------|------------|--|-----|-----|-------------------------|-----------------------------------|
| lah | Truco | Truss Type | | Qty | Plv | Roof - Osage Lot 55 | AS NOTED FOR PLAN REVIEW |
| Job | Truss | Thuss Type | | Qly | Fiy | Rool - Osage Lot 55 | DEVELOPMENT SERVICES 157758187 |
| P230180-01 | V23 | Valley | | 1 | 1 | Job Reference (optional | |
| Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 | | | | | | | |

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1.5x4 u

2-0-0

Scale - 1:21 1

| Scale = 1:21.1 | | | | | | | | | | | | |
|--|--|---|--|-----------------------------------|----------------------|--|--------------------------|----------------------|-----------------------------|--------------------------|---|------------------------------------|
| Loading TCLL (roof) TCDL BCLL BCDL | (psf) 25.0 10.0 0.0 10.0 | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code | 2-0-0 1.15 1.15 NO IRC2018/TPI2014 | CSI TC BC WB Matrix-P | 0.07 0.03 0.00 | DEFL Vert(LL) Vert(TL) Horiz(TL) | in n/a n/a 0.00 | (loc) - - 3 | l/defl n/a n/a n/a | L/d 999 999 n/a | PLATES MT20 Weight: 6 lb | GRIP 244/190 FT = 20% |
| LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS FORCES TOP CHORD BOT CHORD BOT CHORD NOTES 1) Wind: ASC Vasd=91m Ke=0.96; C | 2x4 SP No.2 2x4 SP No.2 2x3 SPF No.2 Structural wood she 2-8-8 oc purlins, ex Rigid ceiling directly bracing. | athing directly applie cept end verticals. applied or 10-0-0 or 3=2-8-8 9) ; 12), 3=-19 (LC 12) 1), 3=77 (LC 1) upression/Maximum /71 (3-second gust) DL=6.0psf; h=35ft; d; MWFRS (envelop | ed or c | Mduix-P | | | | | | | weight. o ib | r1 = 20% |
| and right e exposed; C reactions 2 DOL=1.60 Truss desi only. For s see Standa or consult of Gable requination Gable studies This truss in the second second | xposed ; end vertical I -C for members and fi hown; Lumber DOL=' gned for wind loads in tuds exposed to wind ard Industry Gable En- qualified building desig irres continuous bottor s spaced at 2-0-0 oc. has been designed for oad nonconcurrent wi a designed in accorda al Residential Code sa and referenced stand | left and right orces & MWFRS for 1.60 plate grip In the plane of the tru- (normal to the face) d Details as applical gner as per ANSI/TF m chord bearing. r a 10.0 psf bottom th any other live loa ance with the 2018 ections R502.11.1 a | iss), ole, PI 1. ds. | | | | | | ، ر | | CALLER OF STATE OF SEV SEV NUM PE-2001 | BER 1018807 |



April 14,2023

