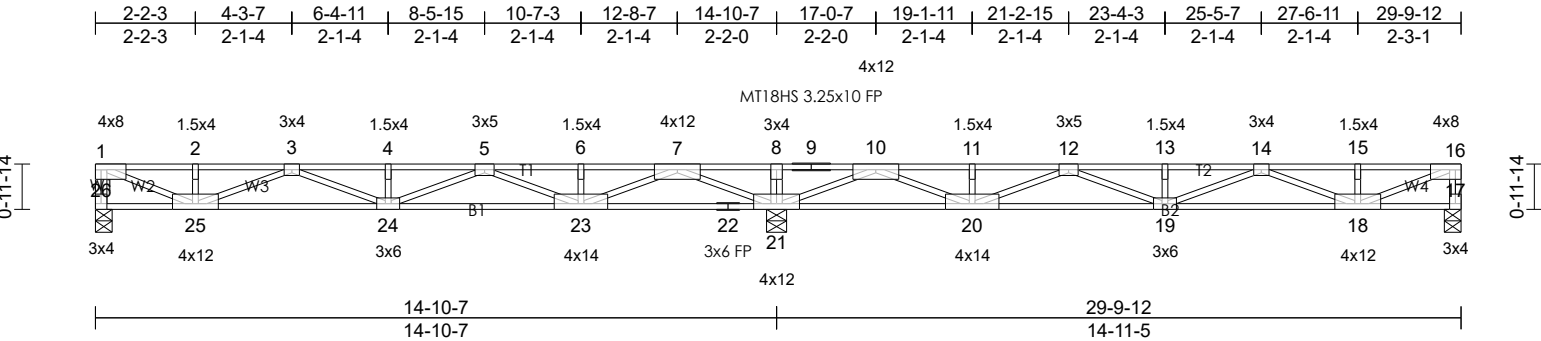


Job	Truss	Truss Type	Qty	Ply	
D2745-1	F1A	Floor	24	1	Job Reference (optional)



Scale = 1:50.3

Plate Offsets (X, Y): [1:Edge,0-1-8], [16:0-3-0,Edge], [17:Edge,0-1-8], [26:Edge,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.92	Vert(LL)	-0.12	19-20	>999	480	MT20	197/144
TCDL	20.0	Lumber DOL	1.00	BC	0.59	Vert(CT)	-0.22	19-20	>814	360	MT18HS	197/144
BCLL	0.0	Rep Stress Incr	NO	WB	0.42	Horz(CT)	0.04	17	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 112 lb	FT = 20%F, 11%E

LUMBER
TOP CHORD 2x4 SPF 2100F 1.8E(flat) *Except* T2:2x4 SPF 1650F 1.5E(flat)
BOT CHORD 2x4 SPF 1650F 1.5E(flat)
WEBS 2x4 SPF 1650F 1.5E(flat)

BRACING
TOP CHORD Sheathed or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 21-23,20-21.

REACTIONS (size) 17=0-4-6, (min. 0-1-8), 21=0-5-4, (min. 0-1-12), 26=0-4-6, (min. 0-1-8)
Max Grav 17=789 (LC 1), 21=2567 (LC 1), 26=783 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-26=-770/0, 16-17=-775/0, 1-2=-1592/0, 2-3=-1592/0, 3-4=-2560/0, 4-5=-2560/0, 5-6=-671/0, 6-7=-671/0, 7-8=0/4094, 8-9=0/4094, 9-10=0/4094, 10-11=-690/0, 11-12=-690/0, 12-13=-2596/0, 13-14=-2596/0, 14-15=-1650/0, 15-16=-1650/0
BOT CHORD 24-25=0/2372, 23-24=0/1919, 22-23=-1387/0, 21-22=-1387/0, 20-21=-1378/0, 19-20=0/1949, 18-19=0/2420
WEBS 8-21=-303/0, 7-21=-2915/0, 7-23=0/2225, 6-23=-255/0, 5-23=-1349/0, 5-24=0/693, 4-24=-254/0, 3-25=-843/0, 2-25=-280/0, 1-25=0/1727, 10-21=-2925/0, 10-20=0/2236, 11-20=-255/0, 12-20=-1361/0, 12-19=0/699, 13-19=-252/0, 14-18=-833/0, 15-18=-284/0, 16-18=0/1781

JOINT STRESS INDEX
1 = 0.77, 2 = 0.81, 3 = 0.79, 4 = 0.81, 5 = 0.77, 6 = 0.81, 7 = 0.85, 8 = 0.49, 9 = 0.70, 10 = 0.86, 11 = 0.81, 12 = 0.78, 13 = 0.81, 14 = 0.79, 15 = 0.81, 16 = 0.80, 17 = 0.48, 18 = 0.76, 19 = 0.83, 20 = 0.82, 21 = 0.74, 22 = 0.20, 23 = 0.82, 24 = 0.82, 25 = 0.74 and 26 = 0.48

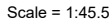
NOTES
1) This truss has been checked for uniform floor live load only, except as noted.

- As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- All plates are MT20 plates unless otherwise indicated.
- All bearings are assumed to be SPF No.2 .
- 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.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



Run: 8.71 S Sep 7 2023 Print: 8.710 S Sep 7 2023 MiTek Industries, Inc. Thu Mar 21 15:17:15 Page: 1
ID:g_WKR4CmeWRcD1a_SFk3czeH7i-TcLuNBj3OZjDA9nS0t0Zrg1mhuOjy0lFHj6JbBzYhL3

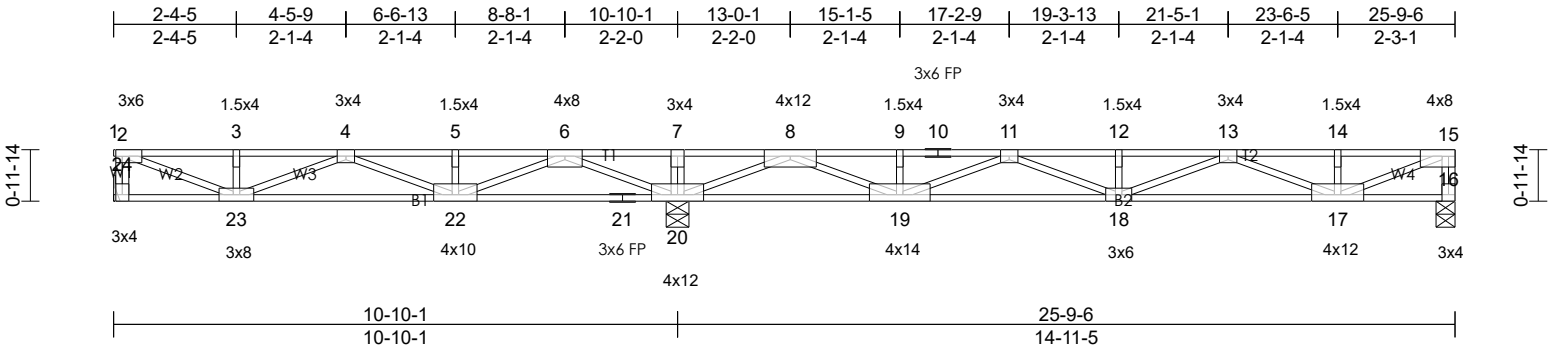


Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.91	Vert(LL)	-0.17	19-20	>999	480	MT20	197/144
TCDL	20.0	Lumber DOL	1.00	BC	0.67	Vert(CT)	-0.28	19-20	>625	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.39	Horz(CT)	0.03	17	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 100 lb	FT = 20%F, 11%E

COMMONWEALTH OF MASSACHUSETTS
CHRISTOPHER G
DUDEK
CIVIL
No. 29566
REGISTERED
PROFESSIONAL ENGINEER

Job	Truss	Truss Type	Qty	Ply	
D2745-1	F1C	Floor	5	1	Job Reference (optional)

Run: 8.71 S Sep 7 2023 Print: 8.710 S Sep 7 2023 MiTek Industries, Inc. Thu Mar 21 15:17:15 Page: 1
ID:g_qWKR4CmeWRcD1a_SFK3czeH7i-xovHbXkh9sr4oJMeaaYoNuZxdIkJhT0PWNst7dzYhL2



Scale = 1:44.3												
Plate Offsets (X, Y): [15:0-3-0,Edge], [16:Edge,0-1-8]												
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.90	Vert(LL)	-0.15	18-19	>999	480	MT20	197/144
TCDL	20.0	Lumber DOL	1.00	BC	0.65	Vert(CT)	-0.26	18-19	>675	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.39	Horz(CT)	0.03	16	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 98 lb	FT = 20%F, 11%E

LUMBER
TOP CHORD 2x4 SPF 1650F 1.5E(flat)
BOT CHORD 2x4 SPF 1650F 1.5E(flat)
WEBS 2x4 SPF 1650F 1.5E(flat)

BRACING
TOP CHORD Sheathed or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 20-22,19-20.

REACTIONS (size) 16=0-4-6, (min. 0-1-8), 20=0-5-4, (min. 0-1-8), 24= Mechanical, (min. 0-1-8)
Max Grav 16=843 (LC 1), 20=2249 (LC 1), 24=497 (LC 1)

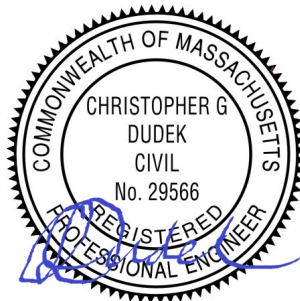
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-24=-484/0, 15-16=-828/0, 2-3=-902/0, 3-4=-902/0, 4-5=-293/0, 5-6=-293/0, 6-7=0/3186, 7-8=0/3186, 8-9=-1343/0, 9-10=-1343/0, 10-11=-1343/0, 11-12=-2989/0, 12-13=-2989/0, 13-14=-1782/0, 14-15=-1782/0
BOT CHORD 22-23=0/892, 21-22=-1126/0, 20-21=-1126/0, 19-20=-593/0, 18-19=0/2473, 17-18=0/2683
WEBS 7-20=-294/0, 6-20=-2218/0, 6-22=0/1534, 5-22=-256/0, 4-22=-647/0, 3-23=-289/0, 2-23=0/969, 8-20=-2793/0, 8-19=0/2093, 9-19=-254/0, 11-19=-1221/0, 11-18=0/558, 12-18=-252/0, 13-18=0/331, 13-17=-974/0, 14-17=-284/0, 15-17=0/1923

JOINT STRESS INDEX
2 = 0.84, 3 = 0.81, 4 = 0.79, 5 = 0.81, 6 = 0.89, 7 = 0.49, 8 = 0.81, 9 = 0.81, 10 = 0.19, 11 = 0.84, 12 = 0.81, 13 = 0.79, 14 = 0.81, 15 = 0.86, 16 = 0.48, 17 = 0.82, 18 = 0.80, 19 = 0.77, 20 = 0.70, 21 = 0.17, 22 = 0.83, 23 = 0.80 and 24 = 0.49

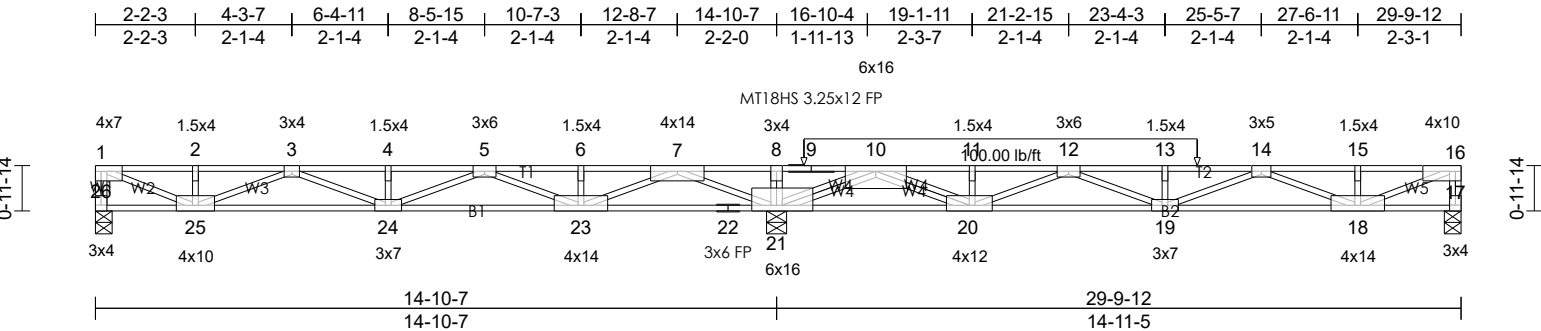
NOTES
1) This truss has been checked for uniform floor live load only, except as noted.
2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.

- 3) All bearings are assumed to be SPF No.2 .
- 4) Refer to girder(s) for truss to truss connections.
- 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.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 7) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



Job	Truss	Truss Type	Qty	Ply	
D2745-1	F1D	Floor	4	1	Job Reference (optional)



Scale = 1:50.3

Plate Offsets (X, Y): [1:Edge,0-1-8], [16:0-3-0,Edge], [26:Edge,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.94	Vert(LL)	-0.11	23-24	>999	480	MT20	197/144
TCDL	20.0	Lumber DOL	1.00	BC	0.82	Vert(CT)	-0.32	19-20	>556	360	MT18HS	197/144
BCLL	0.0	Rep Stress Incr	NO	WB	0.45	Horz(CT)	0.05	17	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 117 lb	FT = 20%F, 11%E

LUMBER
TOP CHORD 2x4 SPF 2100F 1.8E(flat)
BOT CHORD 2x4 SPF 1650F 1.5E(flat)
WEBS 2x4 SPF 1650F 1.5E(flat)

BRACING
TOP CHORD Sheathed or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except:
6-0-0 oc bracing: 21-23,20-21.

REACTIONS (size) 17=0-4-6, (min. 0-1-8), 21=0-5-4, (min. 0-2-3), 26=0-4-6, (min. 0-1-8)
Max Grav 17=1004 (LC 1), 21=3263 (LC 1), 26=715 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-26=-702/0, 16-17=-989/0, 1-2=-1431/0, 2-3=-1431/0, 3-4=-2070/0, 4-5=-2070/0, 7-8=0/5238, 8-9=0/5238, 9-10=0/5238, 10-11=-1832/0, 11-12=-1882/0, 12-13=-4164/0, 13-27=-4164/0, 14-27=-4164/0, 14-15=-2178/0, 15-16=-2178/0
BOT CHORD 24-25=0/2047, 23-24=0/1266, 22-23=-2372/0, 21-22=-2372/0, 20-21=-1037/0, 19-20=0/3618, 18-19=0/3462
WEBS 8-21=-343/0, 10-21=-4524/0, 10-20=0/3123, 11-20=-475/0, 12-20=-1865/0, 12-19=0/591, 13-19=-428/0, 14-19=0/759, 14-18=-1388/0, 15-18=-287/0, 16-18=0/2350, 7-21=-3086/0, 7-23=0/2406, 6-23=-256/0, 5-23=-1527/0, 5-24=0/869, 4-24=-254/0, 3-25=-666/0, 2-25=-280/0, 1-25=0/1552

JOINT STRESS INDEX
1 = 0.88, 2 = 0.81, 3 = 0.79, 4 = 0.81, 5 = 0.75, 6 = 0.81, 7 = 0.91, 8 = 0.49, 9 = 0.89, 10 = 0.89, 11 = 0.81, 12 = 0.80, 13 = 0.81, 14 = 0.81, 15 = 0.81, 16 = 0.82, 17 = 0.52, 18 = 0.88, 19 = 0.80, 20 = 0.82, 21 = 0.69, 22 = 0.34, 23 = 0.89, 24 = 0.82, 25 = 0.82 and 26 = 0.48

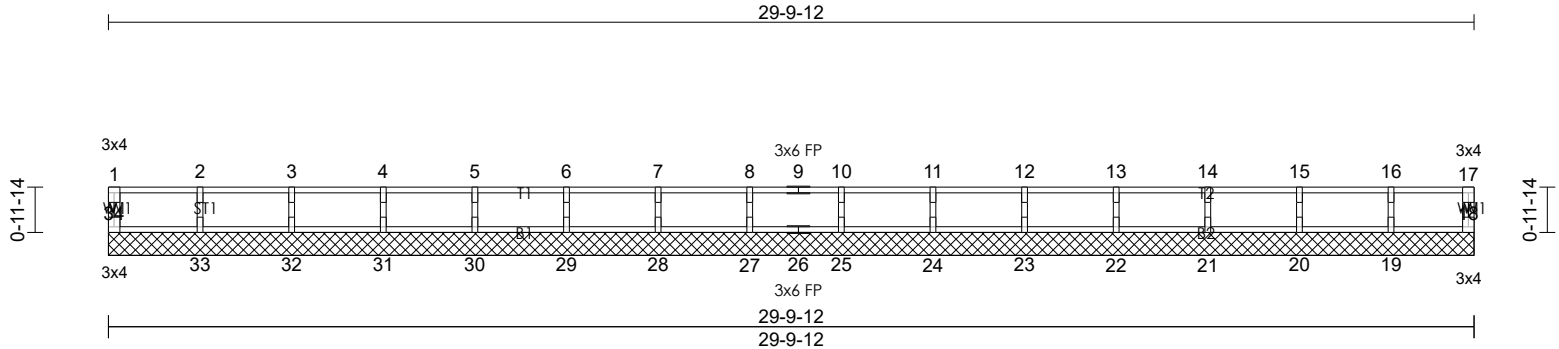
NOTES
1) This truss has been checked for uniform floor live load only, except as noted.

- 2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 3) All plates are MT20 plates unless otherwise indicated.
- 4) All bearings are assumed to be SPF No.2 .
- 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.
- 6) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 7) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 8) CAUTION, Do not erect truss backwards.
- LOAD CASE(S)** Standard
- 1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 17-26=-20, 1-9=-120, 9-27=-220, 16-27=-120



Job D2745-1	Truss L1A	Truss Type Floor Supported Gable	Qty 2	Ply 1	Job Reference (optional)
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Run: 8.71 S Sep 7 2023 Print: 8.710 S Sep 7 2023 MiTek Industries, Inc. Thu Mar 21 15:17:16 Page: 1
ID:4H_EOfvQ3KIQx3yu9W?2VfzeH7w-P?SfosIKwAzwPTwq7I31w56HshE5Q0xYk1bQf4zYhL1



Scale = 1:50.3

Plate Offsets (X, Y): [18:Edge,0-1-8], [34:Edge,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.16	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	20.0	Lumber DOL	1.00	BC	0.03	Vert(TL)	n/a	-	n/a	999	197/144
BCLL	0.0	Rep Stress Incr	NO	WB	0.03	Horiz(TL)	0.00	18	n/a	n/a	
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 83 lb FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SPF 1650F 1.5E(flat)
BOT CHORD 2x4 SPF 1650F 1.5E(flat)
WEBS 2x4 SPF 1650F 1.5E(flat)
OTHERS 2x4 SPF 1650F 1.5E(flat)

BRACING

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

REACTIONS

All bearings 29-9-12.
(lb) - Max Grav All reactions 250 (lb) or less at joint
(s) 18, 34 except 19=263 (LC 1),
20=285 (LC 1), 21=279 (LC 1),
22=281 (LC 1), 23=280 (LC 1),
24=281 (LC 1), 25=280 (LC 1),
27=281 (LC 1), 28=280 (LC 1),
29=281 (LC 1), 30=280 (LC 1),
31=281 (LC 1), 32=280 (LC 1),
33=282 (LC 1)

FORCES

(lb) - Max. Comp./Max. Ten. - All forces 250
(lb) or less except when shown.

JOINT STRESS INDEX

1 = 0.48, 2 = 0.81, 3 = 0.81, 4 = 0.81, 5 = 0.81, 6 = 0.81, 7 = 0.81, 8 = 0.81, 9 = 0.17, 10 = 0.81, 11 = 0.81, 12 = 0.81, 13 = 0.81, 14 = 0.81, 15 = 0.81, 16 = 0.81, 17 = 0.48, 18 = 0.48, 19 = 0.81, 20 = 0.81, 21 = 0.81, 22 = 0.81, 23 = 0.81, 24 = 0.81, 25 = 0.81, 26 = 0.17, 27 = 0.81, 28 = 0.81, 29 = 0.81, 30 = 0.81, 31 = 0.81, 32 = 0.81, 33 = 0.81 and 34 = 0.48

NOTES

- This truss has been checked for uniform floor live load only, except as noted.
- As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- All bearings are assumed to be SPF No.2.

- 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.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

