

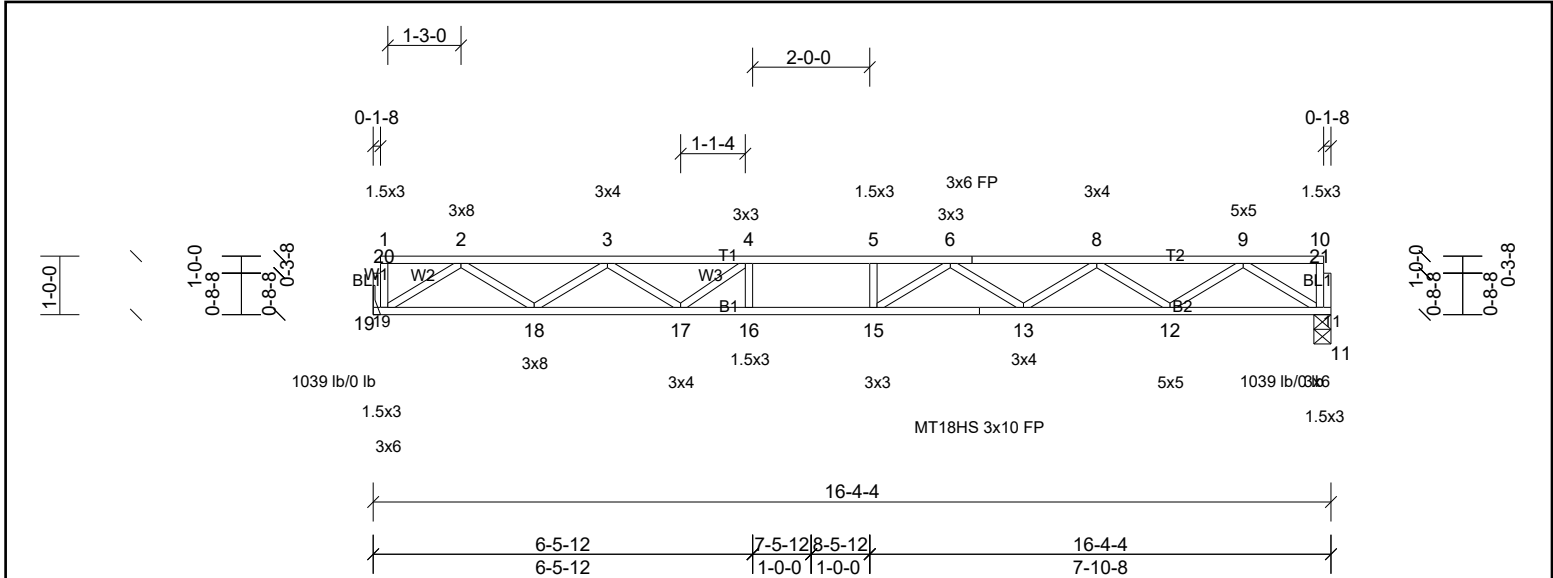
Job 23081661F2	Truss F201	Truss Type Truss	Qty 2	Ply 1	Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Eric Graham

Run: 8.62 S Sep 22 2022 Print: 8.620 S Sep 22 2022 MiTek Industries, Inc. Mon Oct 02 16:04:29

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Scale = 1:39.5

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	0.87	Vert(LL)	-0.29	13-15	>669	480	MT18HS	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.73	Vert(CT)	-0.47	13-15	>410	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.60	Horz(CT)	0.07	11	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 78 lb	FT = 20%F, 11%E

LUMBER		BRACING	
TOP CHORD	2x4 SP No.1(flat)	TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP SS(flat)	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3(flat)		
OTHERS	2x4 SP No.3(flat)		

**REACTIONS** (lb/size) 11=1039/0-3-8, (min. 0-1-8), 19=1039/ Mechanical, (min. 0-1-8)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-2572/0, 3-4=-4127/0, 4-5=-4714/0, 5-6=-4714/0, 6-7=-4128/0, 7-8=-4128/0, 8-9=-2572/0  
 BOT CHORD 18-19=0/1546, 17-18=0/3551, 16-17=0/4714, 15-16=0/4714, 14-15=0/4613, 13-14=0/4613, 12-13=0/3575, 11-12=0/1538  
 WEBS 2-19=-1829/0, 2-18=0/1252, 3-18=-1195/0, 3-17=0/762, 4-17=-912/0, 9-11=-1819/0, 9-12=0/1261, 8-12=-1225/0, 8-13=0/675, 6-13=-591/0, 6-15=-189/525

- NOTES**
- Unbalanced floor live loads have been considered for this design.
  - All plates are MT20 plates unless otherwise indicated.
  - Refer to girder(s) for truss to truss connections.
  - This truss is designed in accordance with the 2015 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

This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.



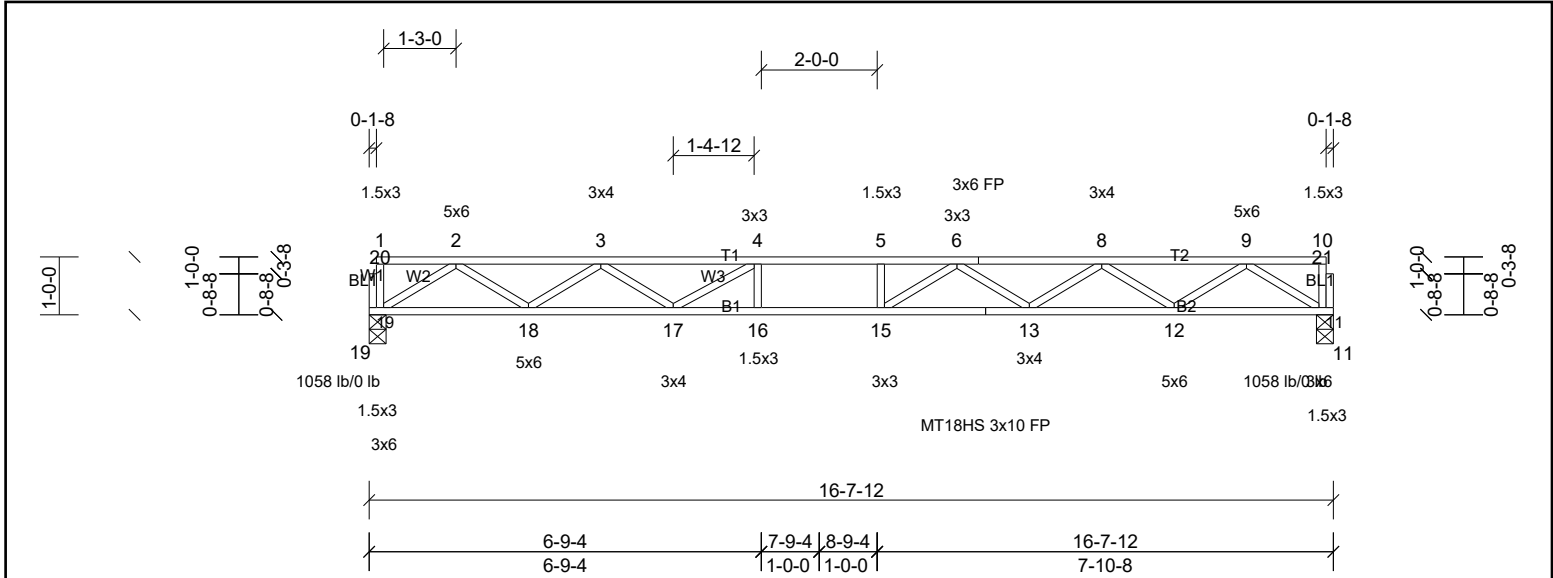
Job 23081661F2	Truss F202	Truss Type Truss	Qty 7	Ply 1	Job Reference (optional)
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Scale = 1:39.9

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	0.88	Vert(LL)	-0.30	13-15	>658	480	MT18HS 244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.73	Vert(CT)	-0.49	15	>404	360	MT20 244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.62	Horz(CT)	0.07	11	n/a	n/a	
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 79 lb FT = 20%F, 11%E

LUMBER		BRACING	
TOP CHORD	2x4 SP No.1(flat)	TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP SS(flat)	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3(flat)		
OTHERS	2x4 SP No.3(flat)		

**REACTIONS** (lb/size) 11=1058/0-3-8, (min. 0-1-8), 19=1058/0-3-8, (min. 0-1-8)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-2632/0, 3-4=-4221/0, 4-5=-4904/0, 5-6=-4904/0, 6-7=-4234/0, 7-8=-4234/0, 8-9=-2629/0  
 BOT CHORD 18-19=0/1571, 17-18=0/3649, 16-17=0/4904, 15-16=0/4904, 14-15=0/4753, 13-14=0/4753, 12-13=0/3658, 11-12=0/1568  
 WEBS 2-19=-1858/0, 2-18=0/1296, 3-18=-1241/0, 3-17=0/742, 4-17=-977/0, 9-11=-1855/0, 9-12=0/1295, 8-12=-1256/0, 8-13=0/704, 6-13=-633/0, 6-15=-159/582

- NOTES**
- Unbalanced floor live loads have been considered for this design.
  - All plates are MT20 plates unless otherwise indicated.
  - This truss is designed in accordance with the 2015 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

This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.



Job 23081661F2	Truss F203	Truss Type Truss	Qty 1	Ply 1	Job Reference (optional)
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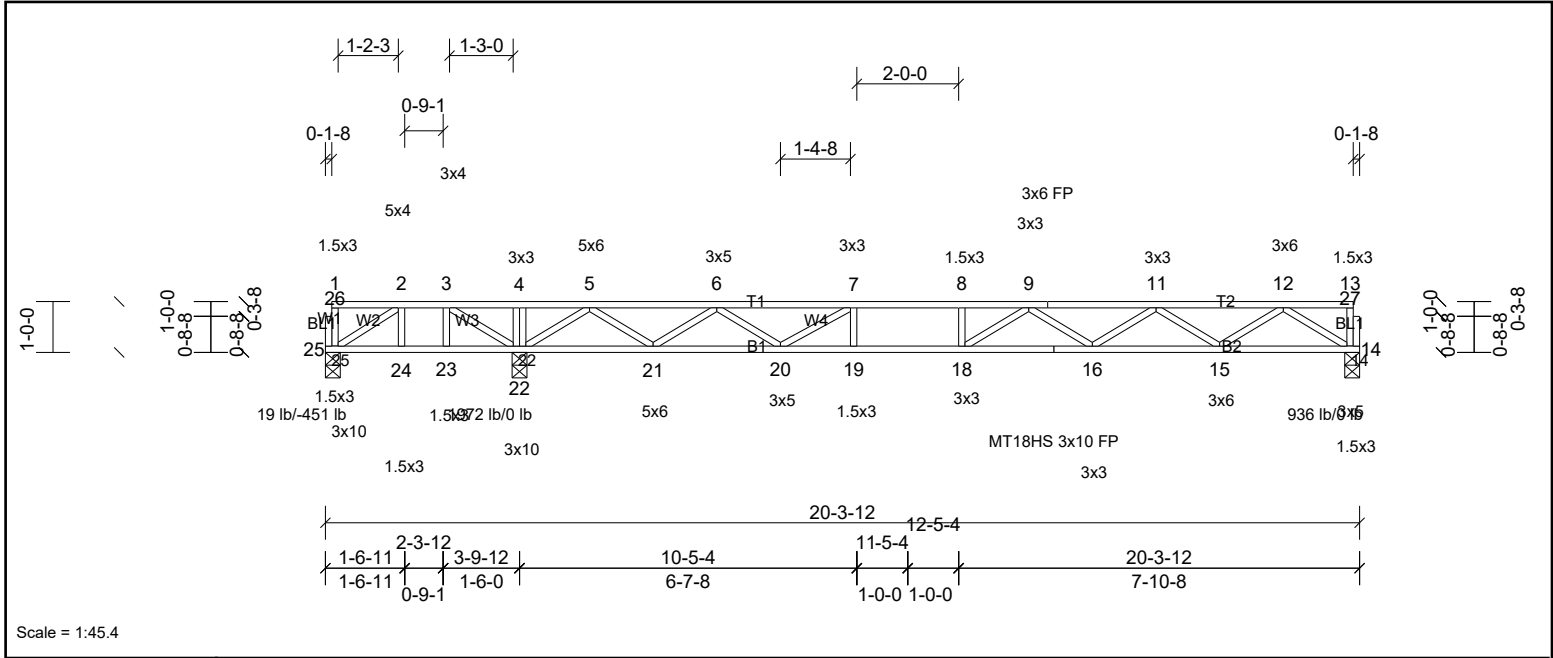


Plate Offsets (X, Y): [2:0-1-8,Edge], [3:0-1-8,Edge], [14:0-2-0,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFLL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.94	Vert(LL)	-0.28	16-18	>715	480	MT18HS	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.79	Vert(CT)	-0.45	16-18	>438	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.04	14	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 99 lb	FT = 20%F, 11%E

LUMBER	BRACING
TOP CHORD 2x4 SP No.1(flat)	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP SS(flat)	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	
OTHERS 2x4 SP No.3(flat)	

REACTIONS	(lb/size)
	14=934/0-3-8, (min. 0-1-8), 22=1972/0-3-8, (min. 0-1-8), 25=-313/0-3-8, (min. 0-1-8)
	Max Uplift 25=-451 (LC 4)
	Max Grav 14=936 (LC 7), 22=1972 (LC 1), 25=19 (LC 3)

FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=0/1015, 3-4=0/2314, 4-5=0/2314, 5-6=-749/0, 6-7=-2678/0, 7-8=-3692/0, 8-9=-3692/0, 9-10=-3549/0, 10-11=-3549/0, 11-12=-2260/0
BOT CHORD	24-25=-1015/0, 23-24=-1015/0, 22-23=-1015/0, 21-22=-541/0, 20-21=0/1910, 19-20=0/3692, 18-19=0/3692, 17-18=0/3860, 16-17=0/3860, 15-16=0/3125, 14-15=0/1377
WEBS	7-19=0/276, 3-22=-1661/0, 2-25=0/1214, 2-24=-376/0, 3-23=0/398, 5-22=-2114/0, 5-21=0/1501, 6-21=-1426/0, 6-20=0/945, 7-20=-1229/0, 12-14=-1628/0, 12-15=0/1078, 11-15=-1055/0, 11-16=0/517, 9-16=-380/0, 9-18=-407/243

- NOTES**
- 1) Unbalanced floor live loads have been considered for this design.
  - 2) All plates are MT20 plates unless otherwise indicated.
  - 3) All plates are 1.5x3 MT20 unless otherwise indicated.
  - 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 451 lb uplift at joint 25.
  - 5) This truss is designed in accordance with the 2015 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

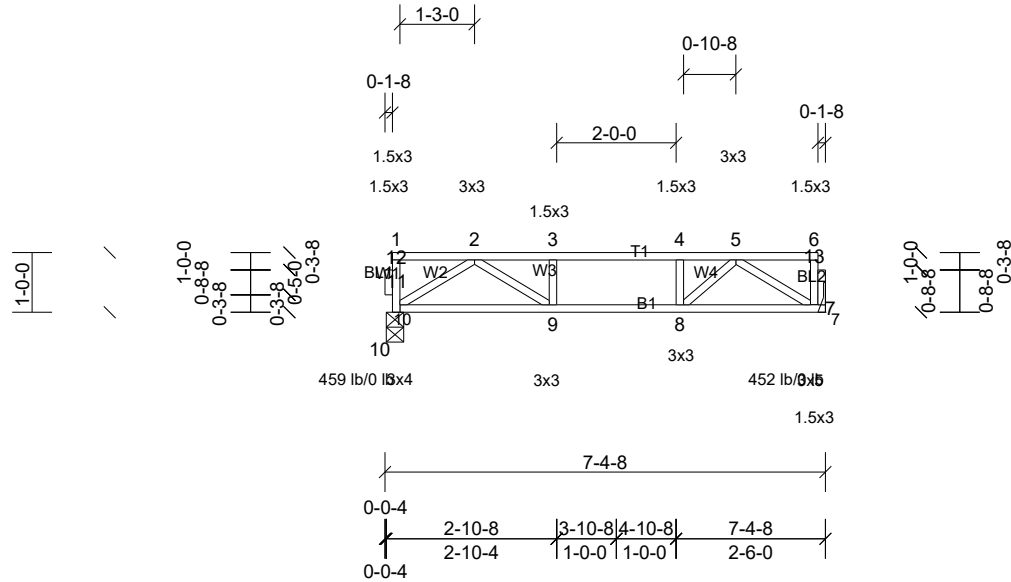
Job 23081661F2	Truss F204	Truss Type Truss	Qty 10	Ply 1	Job Reference (optional)
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Scale = 1:38.7

Plate Offsets (X, Y): [7'-0-2-0,Edge], [10:Edge,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFLL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.38	Vert(LL)	-0.03	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.34	Vert(CT)	-0.05	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 36 lb	FT = 20%F, 11%E

LUMBER		BRACING	
TOP CHORD	2x4 SP No.2(flat)	TOP CHORD	Structural wood sheathing directly applied or 6'-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2(flat)	BOT CHORD	Rigid ceiling directly applied or 10'-0-0 oc bracing.
WEBS	2x4 SP No.3(flat)		
OTHERS	2x4 SP No.3(flat)		

**REACTIONS** (lb/size) 7=452/ Mechanical, (min. 0-1-8), 10=459/0-3-8, (min. 0-1-8)

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

TOP CHORD 2-3=-881/0, 3-4=-881/0, 4-5=-881/0  
 BOT CHORD 9-10=0/567, 8-9=0/881, 7-8=0/588  
 WEBS 4-8=-261/0, 2-10=-682/0, 2-9=0/425, 5-7=-691/0, 5-8=0/457

**NOTES**

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Refer to girder(s) for truss to truss connections.
- 3) Bearing at joint(s) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 4) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 5) 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.
- 6) CAUTION, Do not erect truss backwards.

**LOAD CASE(S)** Standard



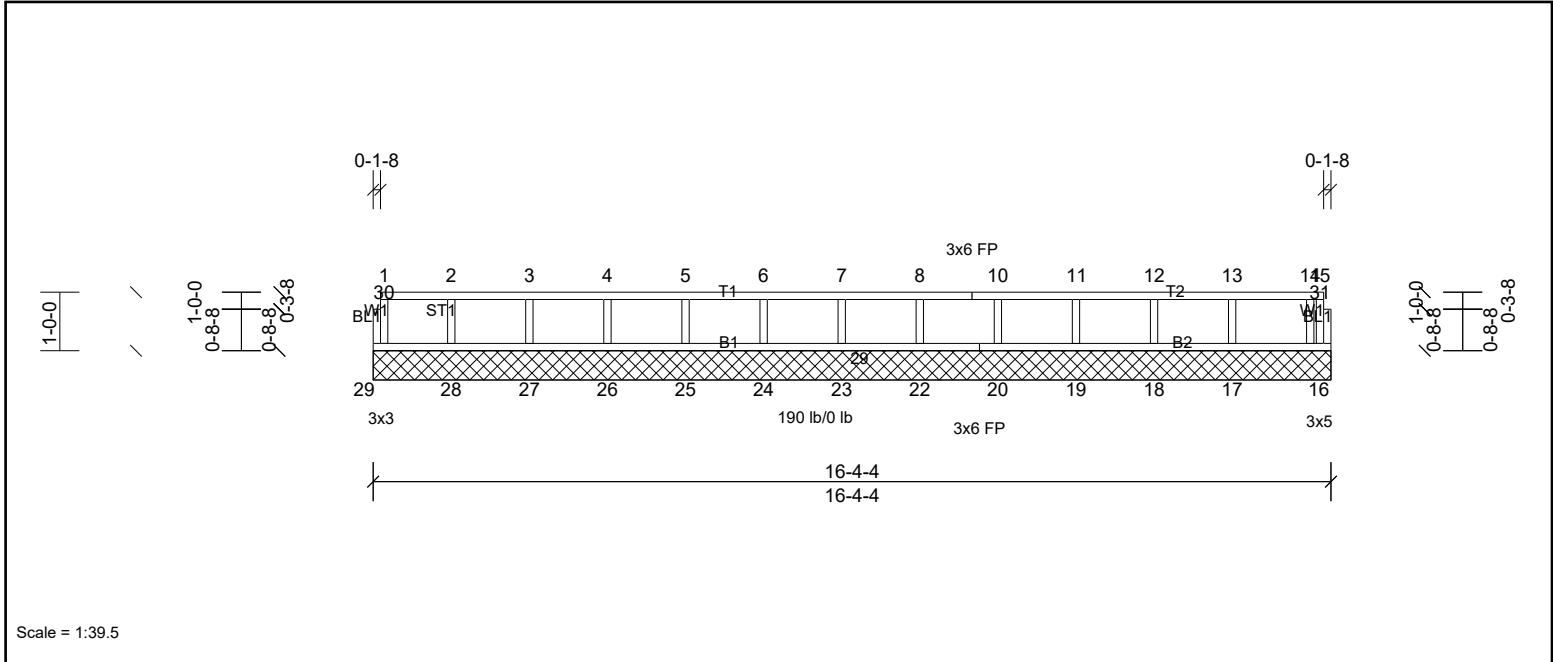
Job 23081661F2	Truss KW1	Truss Type Truss	Qty 1	Ply 1	Job Reference (optional)
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Scale = 1:39.5

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	0.10	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.03	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.04	Horiz(TL)	0.00	16	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-R							Weight: 66 lb	FT = 20%F, 11%E

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

**REACTIONS** All bearings 16-4-4.  
 (lb) - Max Grav All reactions 250 (lb) or less at joint(s) 16, 17, 18, 19, 20, 22, 23, 24, 25, 26, 27, 28, 29

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

- NOTES**
- All plates are 1.5x3 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 1-4-0 oc.
  - This truss is designed in accordance with the 2015 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

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