ENGINEERING BY
TRENCO
A MiTek Affiliate

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: J0322-1382
Southern Touch [redacted]

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Comtech, Inc - Fayetteville.

Pages or sheets covered by this seal: I51219981 thru I51219993

My license renewal date for the state of North Carolina is December 31, 2022.

North Carolina COA: C-0844

April 7,2022

Gilbert, Eric

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

Job	Truss	Truss Type	Qty	Ply	Southern Touch	I51219981
J0322-1382	F1	Floor	3	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Apr 6 14:24:25 2022 Page 1
ID:z9tQeuaeEwTQ6FgPNEM81tzKtlE-mgpEG4gQoqbAdufvcUE43nCmRTaS49mtnUY5bizTPkK

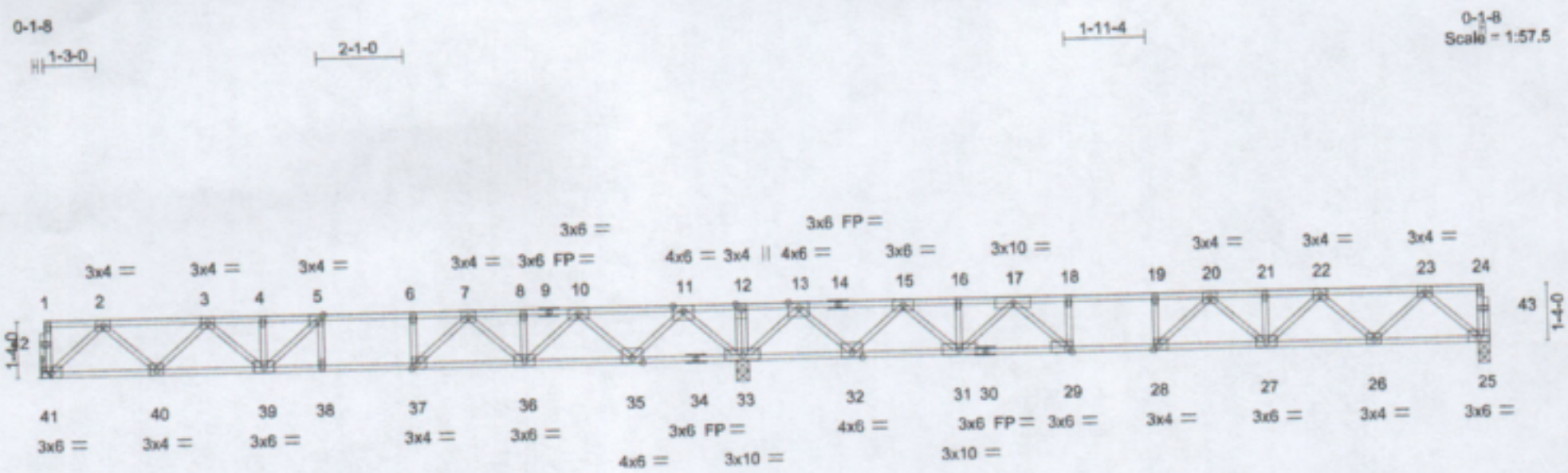


Plate Offsets (X,Y)— [5:0-1-8,Edge], [28:0-1-8,Edge], [29:0-1-8,Edge], [37:0-1-8,Edge]

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	0.89	Vert(LL)	-0.20	27-28	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.88	Vert(CT)	-0.28	27-28	>757	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.60	Horz(CT)	0.05	25	n/a	n/a		
BCDL	5.0	Code IRC2015/TPI2014		Matrix-S							Weight: 181 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

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

REACTIONS. (size) 41=Mechanical, 33=0-3-8, 25=0-3-0
Max Grav 41=789(LC 3), 33=2249(LC 1), 25=852(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1384/0, 3-4=-2195/0, 4-5=-2195/0, 5-6=-2335/0, 6-7=-2335/0, 7-8=-1590/423, 8-10=-1590/423, 10-11=-292/959, 11-12=0/2550, 12-13=0/2550, 13-15=-341/872, 15-16=-1759/327, 16-17=-1759/327, 17-18=-2687/0, 18-19=-2687/0, 19-20=-2687/0, 20-21=-2465/0, 21-22=-2465/0, 22-23=-1518/0
BOT CHORD 40-41=0/847, 39-40=0/1894, 38-39=0/2335, 37-38=0/2335, 36-37=-209/2008, 35-36=-676/1040, 33-35=-1467/0, 32-33=-1368/0, 31-32=-585/1146, 29-31=-112/2243, 28-29=0/2687, 27-28=0/2689, 26-27=0/2097, 25-26=0/917
WEBS 2-41=-1126/0, 2-40=0/747, 3-40=-708/0, 3-39=0/410, 5-39=-216/325, 11-33=-1564/0, 11-35=0/1181, 10-35=-1137/0, 10-36=0/851, 7-36=-680/0, 7-37=0/826, 6-37=-390/0, 13-33=-1638/0, 13-32=0/1251, 15-32=-1204/0, 15-31=0/922, 17-31=-753/0, 17-29=0/942, 18-29=-454/0, 23-25=-1218/0, 23-26=0/836, 22-26=-806/0, 22-27=0/499, 20-27=-305/45, 20-28=-406/158

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 1.5x3 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 1 degree rotation about its center.
4) Refer to girder(s) for truss to truss connections.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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.

April 7,2022

ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Southern Touch /	I51219982
J0322-1382	F1A	GABLE	1	1	Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Apr 6 14:24:26 2022 Page 1
ID:z9tQeuaeEwTQ6FgPNEM81tzKtlE-EtNcTQg2Z8j1F2E69BlJc?l_xtz_pdt108le78zTPkJ

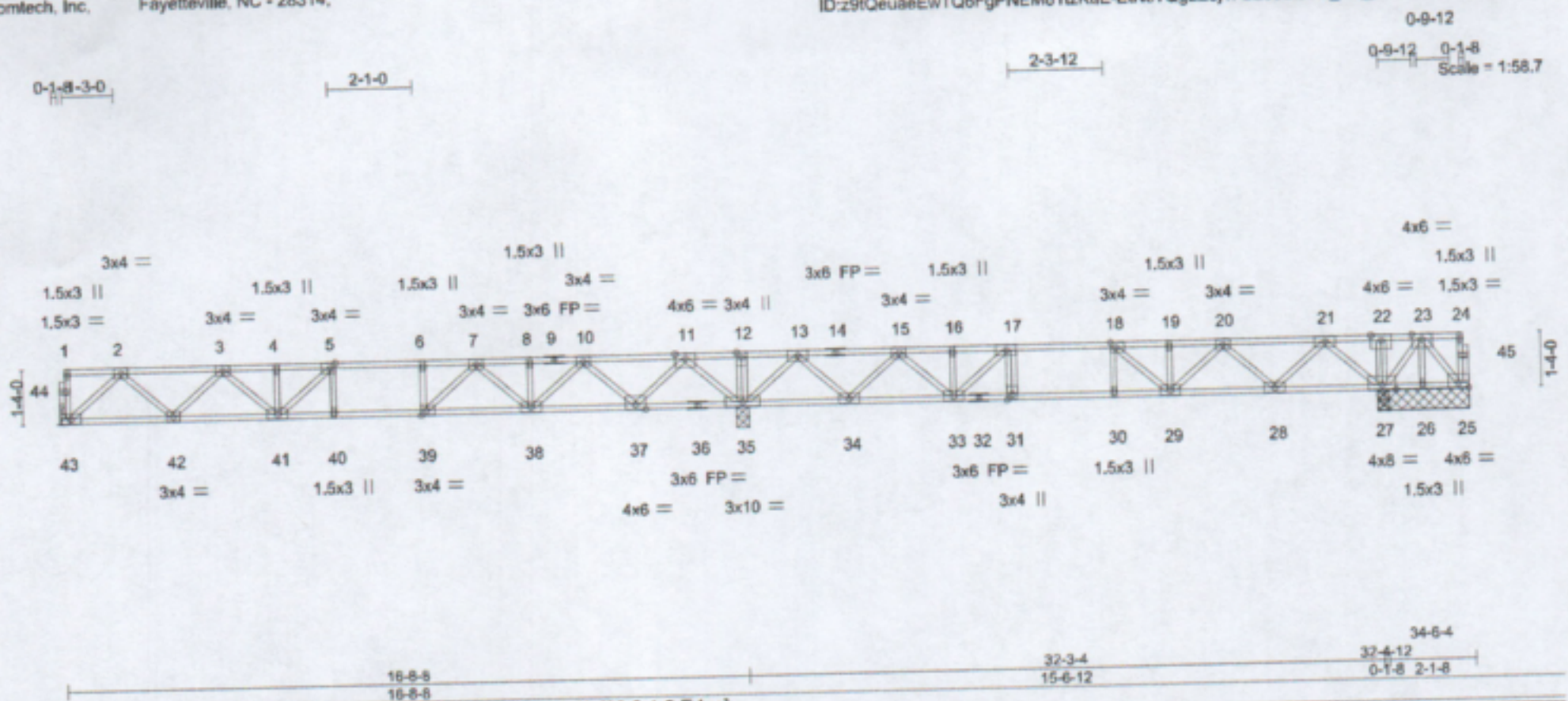


Plate Offsets (X,Y)-- [5:0-1-8,Edge], [18:0-1-8,Edge], [25:Edge,0-1-8], [39:0-1-8,Edge]

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	0.59	Vert(LL)	-0.14	40	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.67	Vert(CT)	-0.19	40	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.54	Horz(CT)	0.03	35	n/a	n/a		
BCDL	5.0	Code IRC2015/TPI2014		Matrix-S							Weight: 186 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

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

REACTIONS. All bearings 2-3-0 except (jt=length) 43=Mechanical, 35=0-3-8.
(lb) - Max Uplift All uplift 100 lb or less at joint(s) 26 except 25=-667(LC 1)
Max Grav All reactions 250 lb or less at joint(s) 26 except 43=800(LC 3), 35=1978(LC 1), 27=5511(LC 4), 27=5484(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1409/0, 3-4=-2241/0, 4-5=-2241/0, 5-6=-2407/0, 6-7=-2407/0, 7-8=-1696/150, 8-10=-1696/150, 10-11=-421/628, 11-12=0/2121, 12-13=0/2121, 13-15=-213/857, 15-16=-1129/463, 16-17=-1129/463, 17-18=-1375/205, 18-19=-1053/101, 19-20=-1053/101, 21-22=0/1509, 22-23=0/1483
BOT CHORD 42-43=0/860, 41-42=0/1929, 40-41=0/2407, 39-40=0/2407, 38-39=0/2102, 37-38=-372/1158, 35-37=-981/0, 34-35=-1162/0, 33-34=-634/777, 31-33=-205/1375, 30-31=-205/1375, 29-30=-205/1375, 28-29=-143/675, 27-28=-659/0, 26-27=-616/0, 25-26=-616/0
WEBS 22-27=-3652/0, 2-43=-1143/0, 2-42=0/763, 3-42=-724/0, 3-41=0/424, 11-35=-1517/0, 11-37=0/1135, 10-37=-1094/0, 10-38=0/805, 7-38=-630/0, 7-39=0/550, 6-39=-289/0, 13-35=-1276/0, 13-34=0/909, 15-34=-871/0, 15-33=0/553, 17-33=-519/0, 21-27=-1229/0, 21-28=0/859, 20-28=-826/0, 20-29=0/514, 18-29=-429/139, 23-27=-1353/0, 23-25=0/972

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x6 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 1 degree rotation about its center.
4) Gable studs spaced at 1-4-0 oc.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 26 except (jt=lb) 25=667.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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

April 7,2022

Continued on page 2

ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Southern Touch	I51219982
J0322-1382	F1A	GABLE	1	1	Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314, ID:z9tQeuaeEwTQ6FgPNEM81tzKtlE-I3x?hmhgKSrutColjvHY9CH9hGJDY37AEo1CfbzTPkl

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 25-43=-10, 1-22=-100, 22-24=-225

Concentrated Loads (lb)

Vert: 22=-3508

Job	Truss	Truss Type	Qty	Ply	Southern Touc	I51219983
J0322-1382	F2	Floor	4	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Apr 6 14:24:28 2022 Page 1
ID:z9tQeuaeEwTQ6FgPNEM81tzKtlE-AFVNu6iJ4lzkULNUHconhQqHVgbRHWMKTRnlB1zTPkH

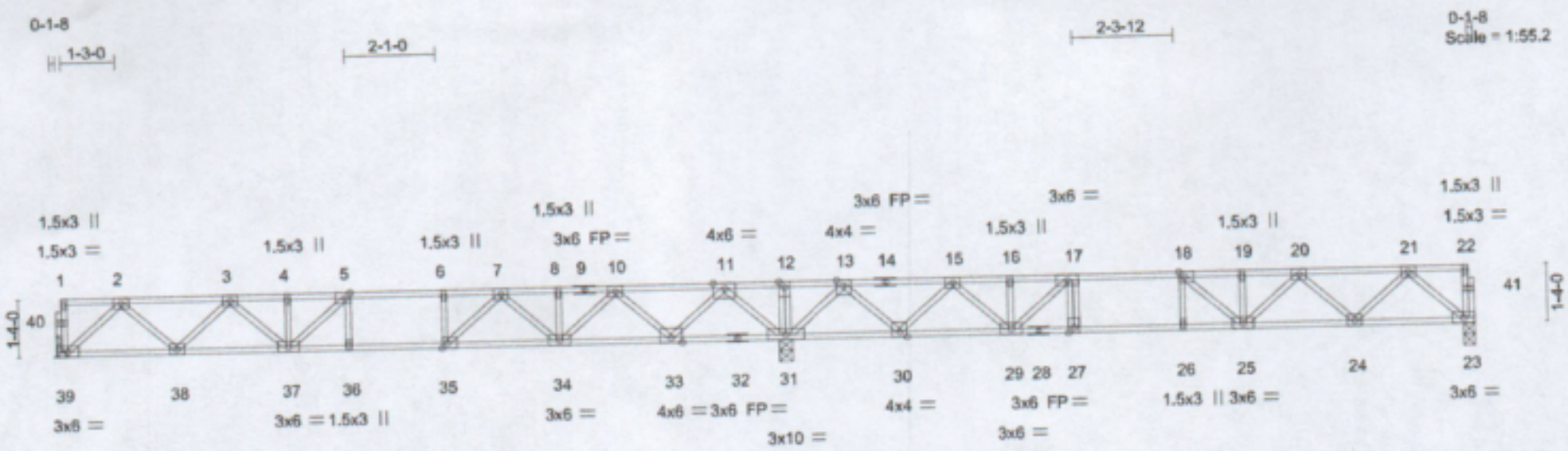


Plate Offsets (X,Y)-- [5:0-1-8,Edge], [18:0-1-8,Edge], [35:0-1-8,Edge]

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	0.78	Vert(LL)	-0.17	25-26	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.93	Vert(CT)	-0.23	25-26	>822	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.54	Horz(CT)	0.05	23	n/a	n/a		
BCDL	5.0	Code IRC2015/TPI2014		Matrix-S							Weight: 172 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

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

REACTIONS. (size) 39=Mechanical, 31=0-3-8, 23=0-3-0
Max Grav 39=802(LC 3), 31=2088(LC 1), 23=762(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1412/0, 3-4=-2247/0, 4-5=-2247/0, 5-6=-2415/0, 6-7=-2415/0, 7-8=-1709/111, 8-10=-1709/111, 10-11=-436/580, 11-12=0/2127, 12-13=0/2127, 13-15=-511/762, 15-16=-1632/302, 16-17=-1632/302, 17-18=-2147/0, 18-19=-2087/0, 19-20=-2087/0, 20-21=-1324/0
BOT CHORD 38-39=0/862, 37-38=0/1934, 36-37=0/2415, 35-36=0/2415, 34-35=0/2113, 33-34=-329/1172, 31-33=-1021/0, 30-31=-1159/0, 29-30=-504/1184, 27-29=0/2147, 26-27=0/2147, 25-26=0/2147, 24-25=0/1807, 23-24=0/816
WEBS 2-39=-1145/0, 2-38=0/765, 3-38=-726/0, 3-37=0/425, 5-37=-324/223, 11-31=-1518/0, 11-33=0/1135, 10-33=-1095/0, 10-34=0/806, 7-34=-631/0, 7-35=0/737, 6-35=-352/0, 13-31=-1448/0, 13-30=0/1077, 15-30=-1029/0, 15-29=0/687, 17-29=-1018/0, 21-23=-1084/0, 21-24=0/706, 20-24=-672/0, 20-25=0/381, 18-25=-126/351

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 1 degree rotation about its center.
4) Refer to girder(s) for truss to truss connections.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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.

April 7,2022

ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Southern Touch	I51219984
J0322-1382	F3	Floor	3	1	Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Apr 6 14:24:29 2022 Page 1
ID:z9tQeuaeEwTQ6FgPNEM81tzKtlE-eS3l5Sjx?35b6VyhrKJ0EdNVJ4yu0_mTi5WlkTzTPkG

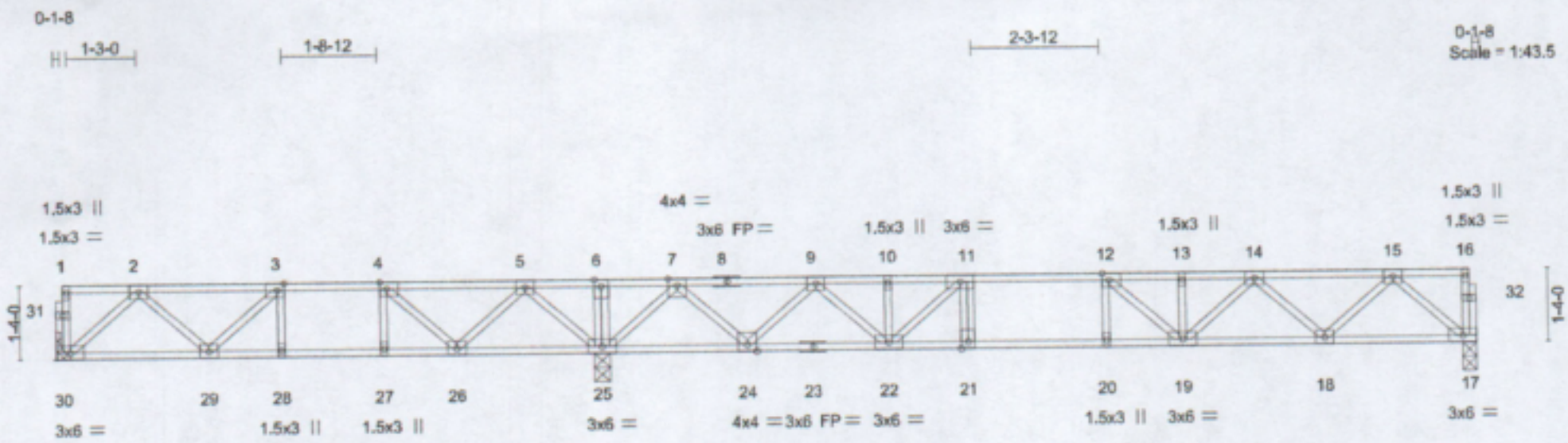


Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [12:0-1-8,Edge]

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	0.58	Vert(LL)	-0.16	19-20	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.78	Vert(CT)	-0.21	19-20	>883	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.47	Horz(CT)	0.04	17	n/a	n/a		
BCDL	5.0	Code IRC2015/TPI2014		Matrix-S							Weight: 136 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

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

REACTIONS. (size) 30=Mechanical, 25=0-3-8, 17=0-3-0
Max Grav 30=472(LC 3), 25=1623(LC 1), 17=789(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-694/33, 3-4=-841/189, 4-5=-483/471, 5-6=0/1221, 6-7=0/1221, 7-9=-802/0, 9-10=-1875/0, 10-11=-1875/0, 11-12=-2323/0, 12-13=-2198/0, 13-14=-2198/0, 14-15=-1384/0
BOT CHORD 29-30=0/498, 28-29=-189/841, 27-28=-189/841, 26-27=-189/841, 25-26=-693/155, 24-25=-273/129, 22-24=0/1450, 21-22=0/2323, 20-21=0/2323, 19-20=0/2323, 18-19=0/1894, 17-18=0/847
WEBS 2-30=-661/0, 2-29=-82/273, 5-25=-903/0, 5-26=0/604, 4-26=-710/0, 15-17=-1125/0, 15-18=0/746, 14-18=-710/0, 14-19=0/413, 12-19=-365/113, 7-25=-1350/0, 7-24=0/980, 9-24=-939/0, 9-22=0/611, 11-22=-780/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 1 degree rotation about its center.
4) Refer to girder(s) for truss to truss connections.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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.

April 7,2022

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Southern Touch	I51219985
J0322-1382	F5	Floor	2	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Apr 6 14:24:29 2022 Page 1
ID:z9tQeuaeEwTQ6FgPNEM81tzKtlE-eS3l5Sjxr35b6VyhrKJ0EdNW84zU0_aTi5WlkTzTPkG

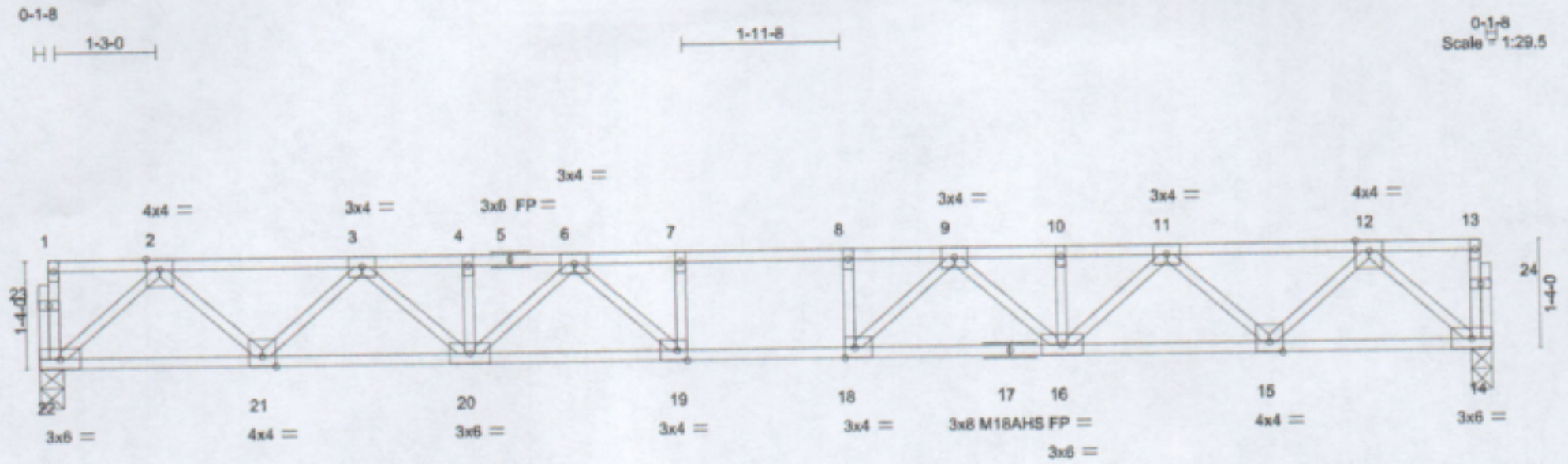


Plate Offsets (X,Y)-- [18:0-1-8,Edge], [19:0-1-8,Edge]

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	0.53	Vert(LL)	-0.22	18-19	>976	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.75	Vert(CT)	-0.30	18-19	>710	360	M18AHS	186/179
BCLL	0.0	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.06	14	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 95 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

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

REACTIONS. (size) 22=0-3-8, 14=0-3-0
Max Grav 22=968(LC 1), 14=968(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1772/0, 3-4=-2955/0, 4-6=-2955/0, 6-7=-3534/0, 7-8=-3534/0, 8-9=-3534/0, 9-10=-2955/0, 10-11=-2955/0, 11-12=-1772/0
BOT CHORD 21-22=0/1050, 20-21=0/2464, 19-20=0/3311, 18-19=0/3534, 16-18=0/3311, 15-16=0/2464, 14-15=0/1050
WEBS 2-22=-1395/0, 2-21=0/1004, 3-21=-963/0, 3-20=0/668, 6-20=-483/0, 6-19=-63/605, 7-19=-303/0, 12-14=-1395/0, 12-15=0/1004, 11-15=-963/0, 11-16=0/668, 9-16=-483/0, 9-18=-63/605, 8-18=-303/0

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) Plates checked for a plus or minus 1 degree rotation about its center.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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.

April 7,2022

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Southern Touch	I51219986
J0322-1382	F5A	GABLE	1	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Apr 6 14:24:30 2022 Page 1
ID:z9tQeuaeEwTQ6FgPNEM81tzKtlE-6ed7JojZcNDSkfXtO1qFmrvgRULwfSYcxlGsGvzTPkF

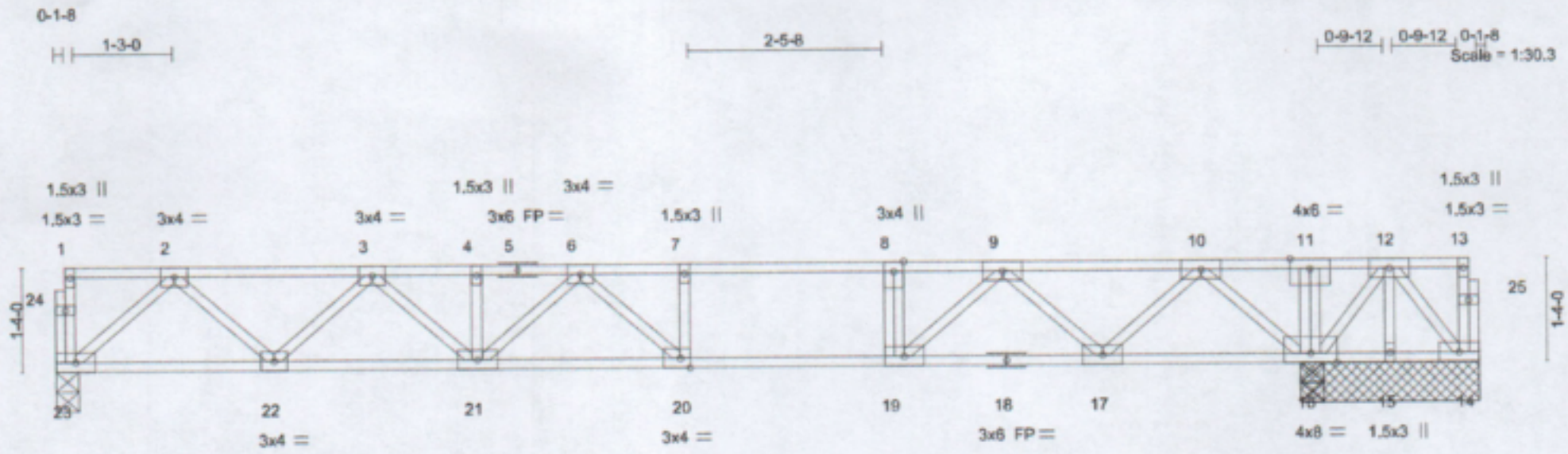


Plate Offsets (X,Y)— [20:0-1-8,Edge]

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	0.62	Vert(LL)	-0.22	20-21	>869	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.60	Vert(CT)	-0.30	20-21	>631	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.43	Horz(CT)	0.03	16	n/a	n/a		
BCDL	5.0	Code IRC2015/TPI2014		Matrix-S							Weight: 99 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 15-16,14-15.

REACTIONS. All bearings 2-3-0 except (jt=length) 23=0-3-8.
(lb) - Max Uplift All uplift 100 lb or less at joint(s) except 14=-179(LC 1)
Max Grav All reactions 250 lb or less at joint(s) 15 except 23=809(LC 1), 16=4995(LC 1), 16=4995(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1423/0, 3-4=-2292/0, 4-6=-2292/0, 6-7=-2318/0, 7-8=-2318/0, 8-9=-2318/0, 9-10=-974/0, 10-11=0/603, 11-12=0/577
BOT CHORD 22-23=0/867, 21-22=0/1967, 20-21=0/2457, 19-20=0/2318, 17-19=0/1636, 16-17=0/357
WEBS 11-16=-3643/0, 2-23=-1151/0, 2-22=0/774, 3-22=-756/0, 3-21=0/442, 10-16=-1282/0, 10-17=0/858, 9-17=-921/0, 9-19=0/908, 8-19=-443/0, 12-14=0/338, 12-16=-571/0

NOTES-
1) All plates are 3x6 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 1 degree rotation about its center.
3) Gable studs spaced at 1-4-0 oc.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 179 lb uplift at joint 14.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 14-23=-10, 1-11=-100, 11-13=-225
Concentrated Loads (lb)
Vert: 11=-3527

April 7,2022

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Southern Touch	I51219987
J0322-1382	F6	Floor	2	1	Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Apr 6 14:24:31 2022 Page 1
ID:z9tQeuaeEwTQ6FgPNEM81tzKtIE-aqAVW8kBNgMJLp63ykLUJ2St5ufNUvFm9P?PoMzTPkE

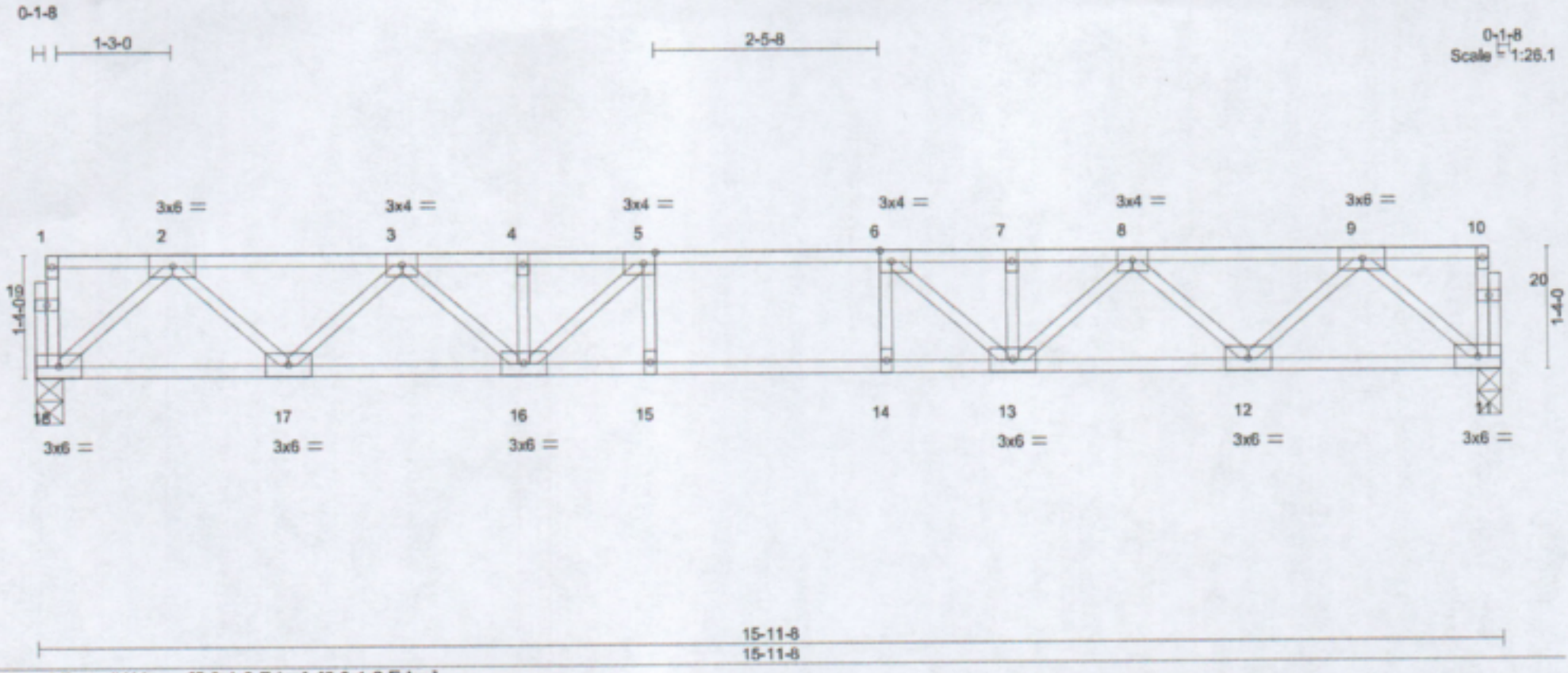


Plate Offsets (X,Y)— [5:0-1-8,Edge], [6:0-1-8,Edge]

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	0.50	Vert(LL)	-0.16	15-16	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.72	Vert(CT)	-0.21	15-16	>892	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.04	11	n/a	n/a		
BCDL	5.0	Code IRC2015/TPI2014		Matrix-S							Weight: 84 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

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

REACTIONS. (size) 18=0-3-8, 11=0-3-0
Max Grav 18=858(LC 1), 11=858(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1534/0, 3-4=-2477/0, 4-5=-2477/0, 5-6=-2763/0, 6-7=-2477/0, 7-8=-2477/0, 8-9=-1534/0
BOT CHORD 17-18=0/925, 16-17=0/2113, 15-16=0/2763, 14-15=0/2763, 13-14=0/2763, 12-13=0/2113, 11-12=0/925
WEBS 2-18=-1229/0, 2-17=0/847, 3-17=-805/0, 3-16=0/494, 5-16=-660/0, 9-11=-1229/0, 9-12=0/847, 8-12=-805/0, 8-13=0/494, 6-13=-660/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 1.5x3 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 1 degree rotation about its center.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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.

April 7,2022

ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Southern Touch [redacted]
J0322-1382	F7	Floor	6	1	I51219988
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Apr 6 14:24:31 2022 Page 1
ID:z9tQeuaeEwTQ6FgPNEM81tzKtlE-aqAVW8kBNgMJLp63ykLUJ2SuDugCUvQm9P?PoMzTPkE

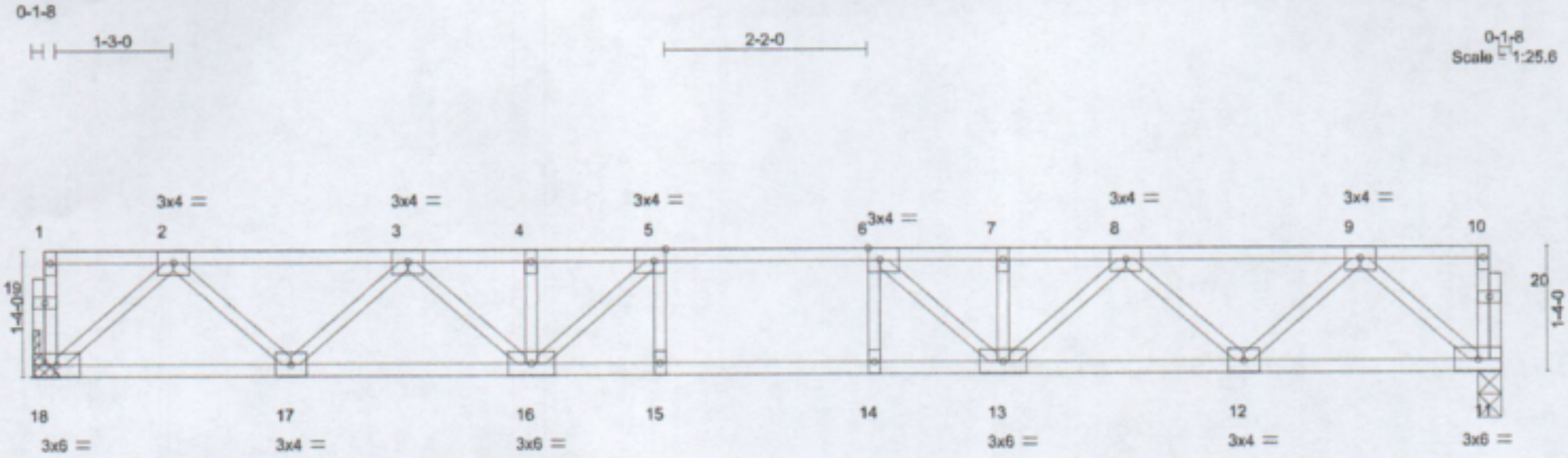


Plate Offsets (X,Y)— [5:0-1-8,Edge], [6:0-1-8,Edge]

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	0.43	Vert(LL)	-0.14	13-14	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.67	Vert(CT)	-0.18	15-16	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.39	Horz(CT)	0.04	11	n/a	n/a		
BCDL	5.0	Code IRC2015/TPI2014		Matrix-S							Weight: 83 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

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

REACTIONS. (size) 18=Mechanical, 11=0-3-0
Max Grav 18=842(LC 1), 11=842(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1500/0, 3-4=-2410/0, 4-5=-2410/0, 5-6=-2668/0, 6-7=-2410/0, 7-8=-2410/0, 8-9=-1500/0
BOT CHORD 17-18=0/907, 16-17=0/2061, 15-16=0/2668, 14-15=0/2668, 13-14=0/2668, 12-13=0/2061, 11-12=0/907
WEBS 2-18=-1205/0, 2-17=0/824, 3-17=-781/0, 3-16=0/474, 9-11=-1205/0, 9-12=0/824, 8-12=-781/0, 8-13=0/474, 6-13=-606/0, 5-16=-606/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 1.5x3 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 1 degree rotation about its center.
4) Refer to girder(s) for truss to truss connections.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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.

April 7,2022

ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Southern Touch
J0322-1382	F8	Floor	6	1	I51219989
					Job Reference (optional)

Comtech, Inc. Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Apr 6 14:24:32 2022 Page 1
ID:z9tQeuaeEwTQ6FgPNEM81tzKtlE-21kukTlp8_UAzzhFWSsjrG?2XH2rDPsvO3lyKozTPkD

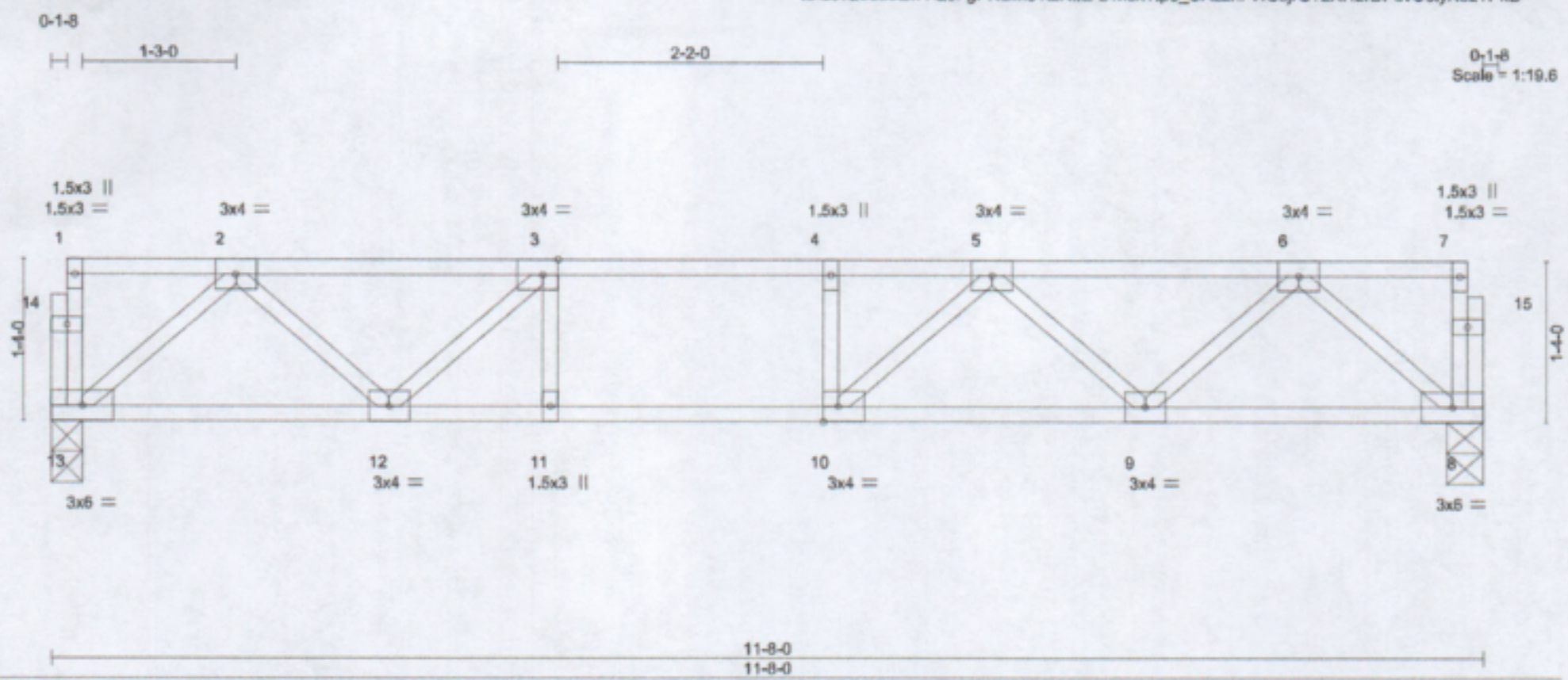


Plate Offsets (X,Y)— [3:0-1-8,Edge], [10:0-1-8,Edge]

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	0.45	Vert(LL)	-0.11	9-10	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.57	Vert(CT)	-0.13	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.25	Horz(CT)	0.02	8	n/a	n/a		
BCDL	5.0	Code IRC2015/TPI2014		Matrix-S							Weight: 61 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

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

REACTIONS. (size) 13=0-3-0, 8=0-3-8
Max Grav 13=622(LC 1), 8=622(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1027/0, 3-4=-1436/0, 4-5=-1436/0, 5-6=-1029/0
BOT CHORD 12-13=0/646, 11-12=0/1436, 10-11=0/1436, 9-10=0/1353, 8-9=0/660
WEBS 2-13=-857/0, 2-12=0/531, 3-12=-577/0, 6-8=-876/0, 6-9=0/514, 5-9=-449/0, 5-10=-38/328

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 1 degree rotation about its center.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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.

April 7,2022

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Southern Touch	
J0322-1382	F9	GABLE	1	1	Job Reference (optional)	I51219990

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Apr 6 14:24:32 2022 Page 1
ID:z9tQeuaeEwTQ6FgPNEM81tzKtlE-21kukTlp8_UAzzhFWSsjrG?5gH0nDK6vO3lyKozTPkD

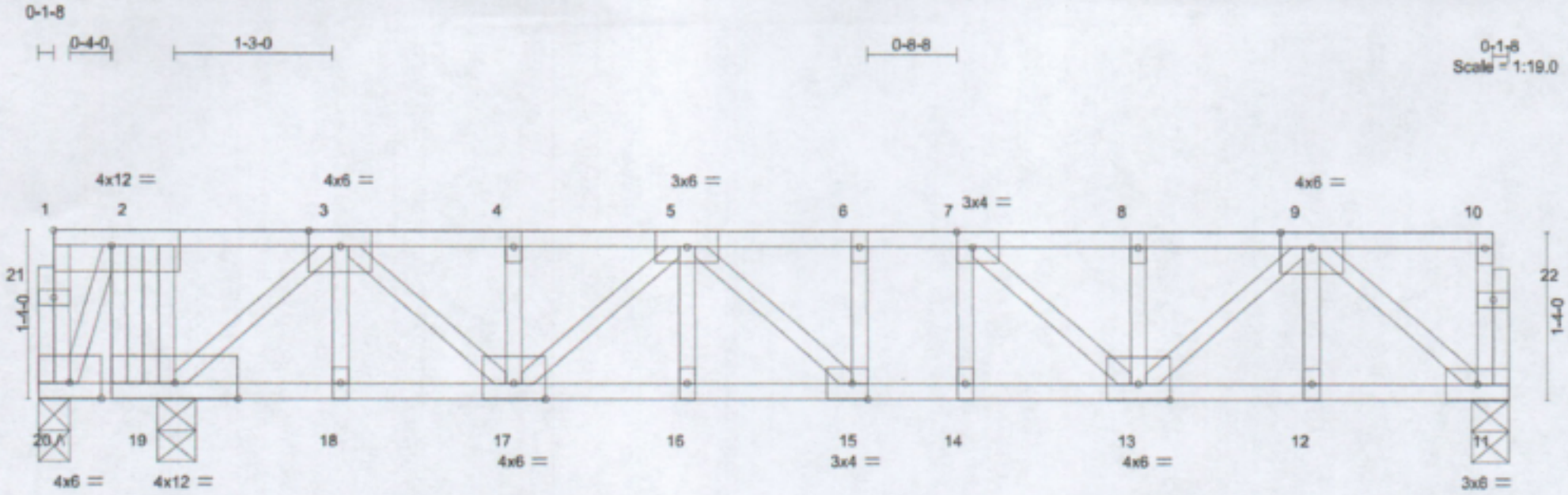


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [7:0-1-8,Edge], [15:0-1-8,Edge]

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	0.32	Vert(LL)	-0.07	15-16	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.64	Vert(CT)	-0.10	15-16	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.56	Horz(CT)	0.03	11	n/a	n/a		
BCDL	5.0	Code IRC2015/TPI2014		Matrix-S							Weight: 77 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

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

REACTIONS. (size) 20=0-3-0, 11=0-3-8, 19=0-3-10
Max Uplift 20=REL
Max Grav 11=1192(LC 4), 19=7176(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=0/398, 3-4=-1900/0, 4-5=-1900/0, 5-6=-2527/0, 6-7=-2527/0, 7-8=-2048/0, 8-9=-2048/0
BOT CHORD 18-19=0/1024, 17-18=0/1024, 16-17=0/2439, 15-16=0/2439, 14-15=0/2527, 13-14=0/2527, 12-13=0/1267, 11-12=0/1267
WEBS 2-19=-6023/0, 3-19=-1787/0, 3-17=0/1169, 4-17=-284/0, 5-17=-720/0, 5-15=-21/298, 9-11=-1646/0, 9-13=0/1041, 8-13=-309/0, 7-13=-698/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 1.5x3 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 1 degree rotation about its center.
4) "/\" indicates Released bearing: allow for upward movement at joint(s) 20.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 11-20=-10, 1-10=-225
Concentrated Loads (lb)
Vert: 2=-5711

April 7,2022

ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

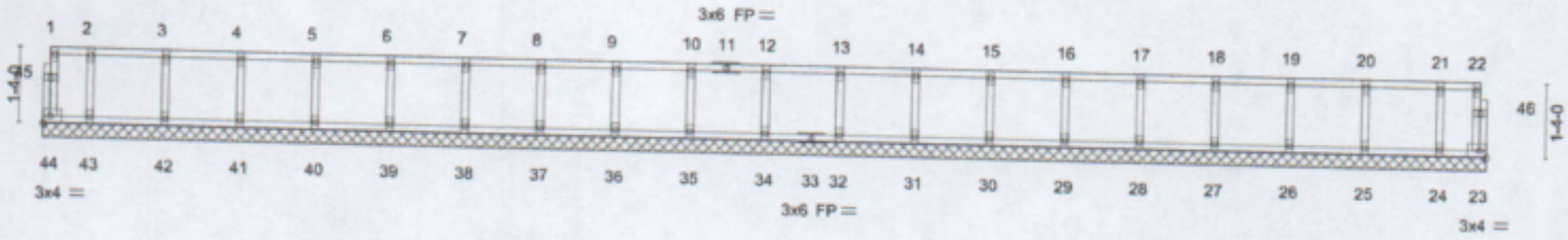
Job	Truss	Truss Type	Qty	Ply	Southern Touch / I51219991
J0322-1382	KW3	GABLE	1	1	Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Apr 6 14:24:33 2022 Page 1
ID:z9tQeuaeEwTQ6FgPNEM81tzKtlE-XDIGxpmRvlc1b7GS49NyOTXKThWyyvZ3djUWtEzTPkC

0-1-8

0-1-8

Scale = 1:42.8



0-10-0	2-2-0	3-6-0	4-10-0	6-2-0	7-6-0	8-10-0	10-2-0	11-6-0	12-10-0	14-2-0	15-6-0	16-10-0	18-2-0	19-6-0	20-10-0	22-2-0	23-6-0	24-10-0	25-8-0
0-10-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	0-10-0

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	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	23	n/a	n/a		
BCDL	5.0	Code IRC2015/TPI2014		Matrix-R							Weight: 113 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD	2x4 SP No.1(flat)
BOT CHORD	2x4 SP No.1(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

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

REACTIONS. All bearings 25-8-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 44, 23, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 32, 31, 30, 29, 28, 27, 26, 25, 24

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

NOTES-

1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 1 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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.

April 7,2022

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Southern Touch	
J0322-1382	KW7	GABLE	1	1		I51219992

Comtech, Inc. Fayetteville, NC - 28314,

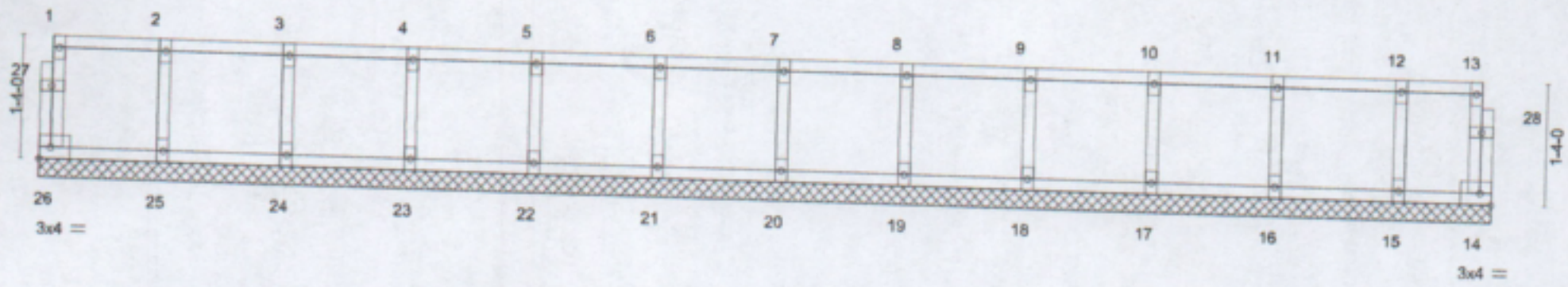
Job Reference (optional)

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Apr 6 14:24:34 2022 Page 1
ID:z9tQeuaeEwTQ6FgPNEM81tzKtlE-?Pse99n3gbkuCHredtvBxg4VD5s8hMpCrNE3PhzTPkB

0-1-8

0-1-8

Scale = 1:25.9



1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0	13-4-0	14-8-0	15-8-0
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-0-0

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	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	14	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-R							Weight: 70 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD	2x4 SP No.1(flat)
BOT CHORD	2x4 SP No.1(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

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

REACTIONS. All bearings 15-8-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 26, 14, 25, 24, 23, 22, 21, 20, 19, 18, 17, 16, 15

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

NOTES-

1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 1 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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.

NORTH CAROLINA PROFESSIONAL SEAL 036322 ENGINEER ERIC A. GILBERT

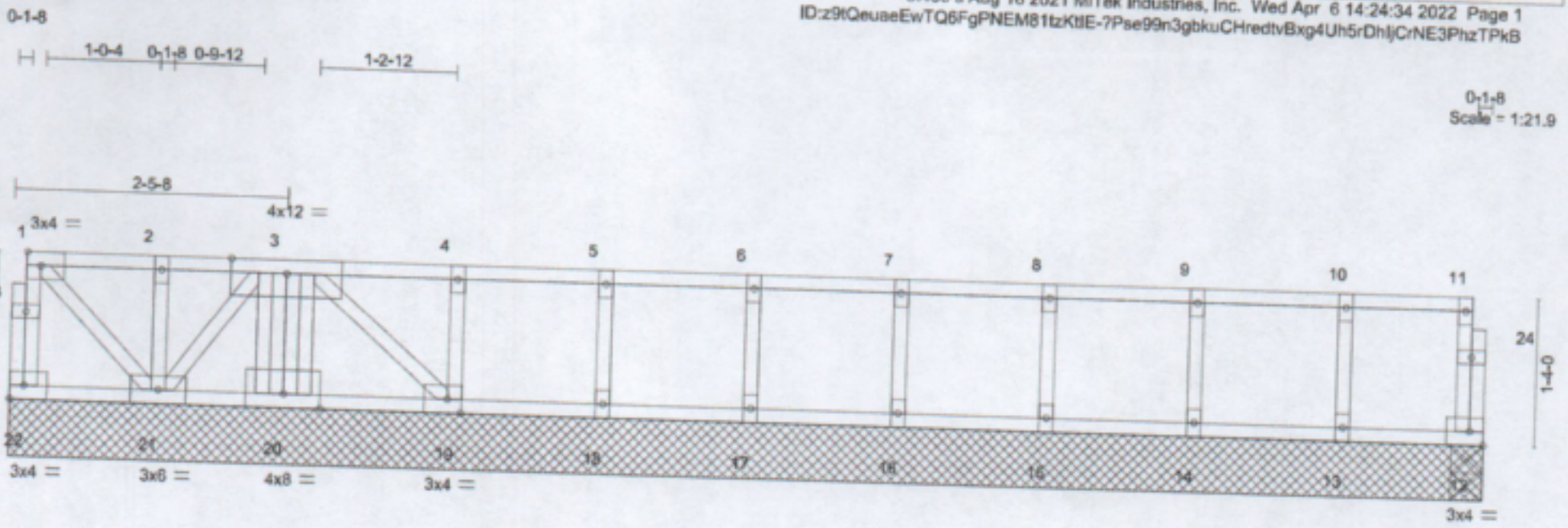
April 7,2022

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Southern Touch
J0322-1382	KW8	GABLE	1	1	I51219993

Comtech, Inc. Fayetteville, NC - 28314, Job Reference (optional)

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Apr 6 14:24:34 2022 Page 1
ID:z9tQeuaeEwTQ6FgPNEM81tzKtlE-?Pse99n3gbkuCHredtvBxg4Uh5rDhljCrNE3PhzTPkB



	1-4-0	2-5-8	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0	13-3-4
	1-4-0	1-1-8	1-6-8	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-3-4

Plate Offsets (X,Y)— [19:0-1-8,Edge]

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	0.09	Vert(LL)	0.00	13	****	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.07	Vert(CT)	-0.00	20	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.29	Horz(CT)	0.00	12	n/a	n/a		
BCDL	5.0	Code IRC2015/TPI2014		Matrix-S							Weight: 71 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD	2x4 SP No.1(flat)
BOT CHORD	2x4 SP No.1(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing. Except: 6-0-0 oc bracing: 21-22.

REACTIONS. All bearings 13-3-4.
(lb) - Max Uplift All uplift 100 lb or less at joint(s) 22
Max Grav All reactions 250 lb or less at joint(s) 12, 12, 18, 17, 16, 15, 14, 13 except 20=5238(LC 1), 21=607(LC 1), 19=422(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
BOT CHORD 20-21=0/283, 19-20=0/318
WEBS 3-20=-5225/0, 3-21=-525/0, 3-19=-403/0

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 1 degree rotation about its center.
3) Gable studs spaced at 1-4-0 oc.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 22.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 12-22=-10, 1-11=-100
Concentrated Loads (lb)
Vert: 3=-5736

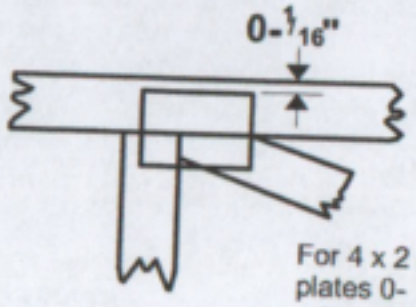
April 7,2022

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Symbols

PLATE LOCATION AND ORIENTATION

Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- 1/16" from outside edge of truss.

This symbol indicates the required direction of slots in connector plates.

*** Plate location details available in MiTek 20/20 software or upon request.**

PLATE SIZE

4 x 4

The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION

Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

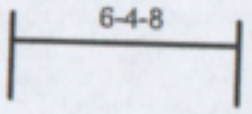
BEARING

Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

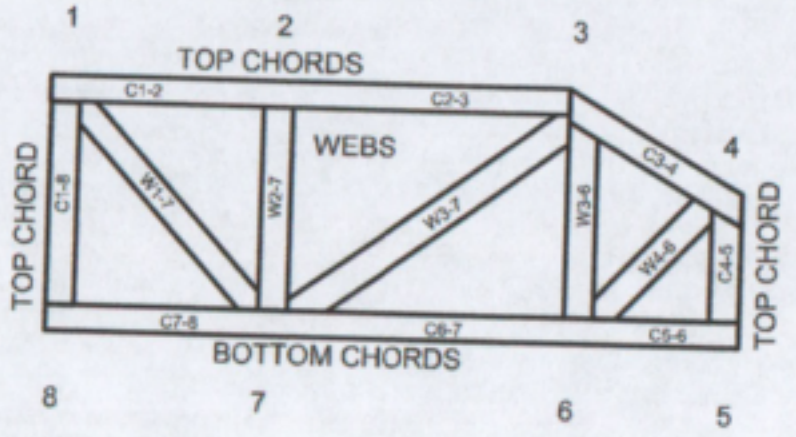
Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



dimensions shown in ft-in-sixteenths
(Drawings not to scale)



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

MiTek

ENGINEERING BY TRENCO
A MiTek Affiliate

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.