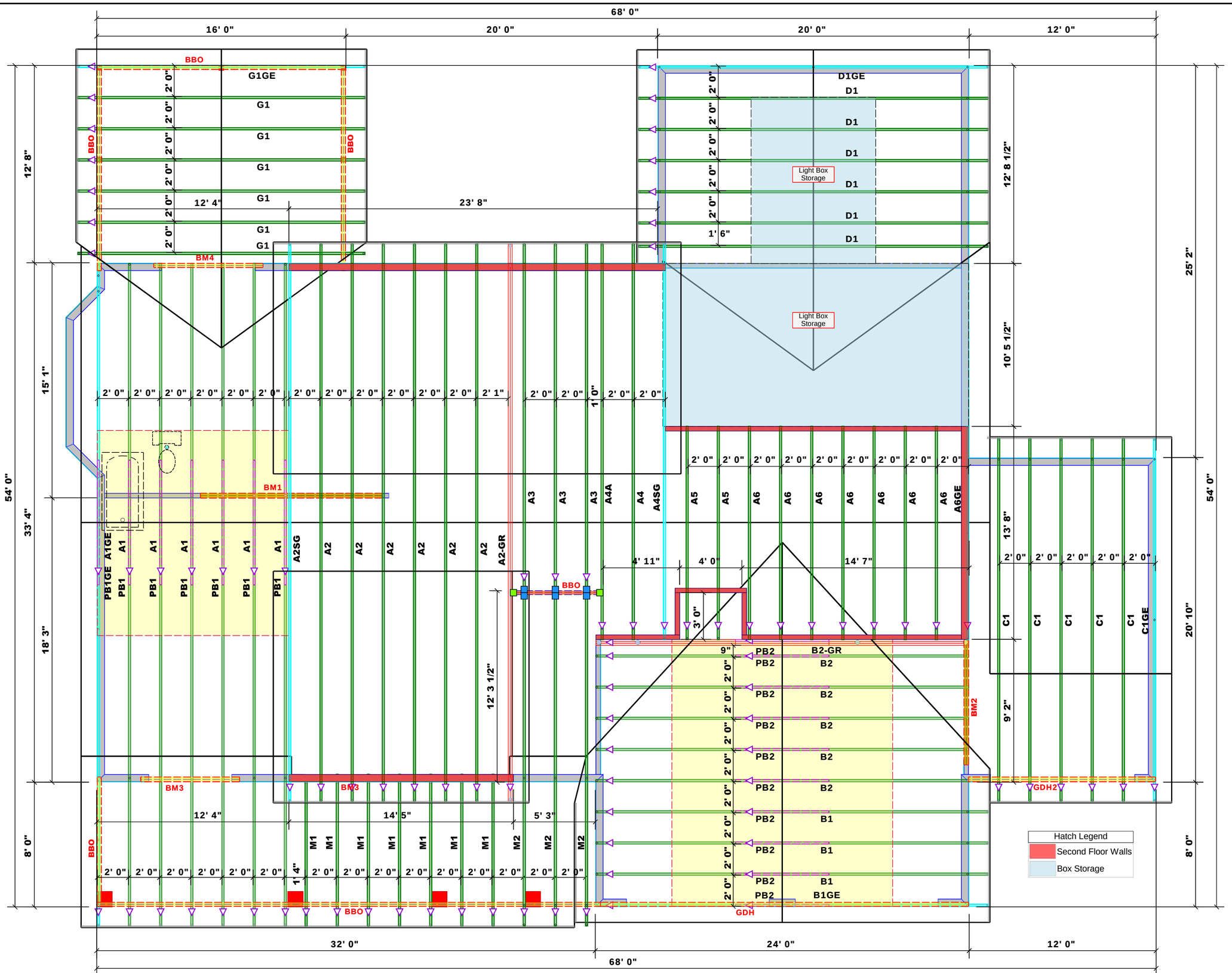

1 Truss Placement Plan

Scale: 1/4"=1'

Products					
PlotID	Length	Product	Plies	Net Qty	Fab Type
BM1	12' 0"	1-3/4"x 14" LVL Kerto-S	2	2	FF
BM2	9' 0"	1-3/4"x 11-7/8" LVL Kerto-S	2	2	FF
BM3	7' 0"	1-3/4"x 9-1/4" LVL Kerto-S	2	4	FF
BM4	8' 0"	2x10 SPF No.2	2	2	FF
GDH	24' 0"	2x12 SPF No.2	2	2	FF
GDH2	12' 0"	1-3/4"x 11-7/8" LVL Kerto-S	2	2	FF

Plumbing Drop Notes

1. Plumbing drop locations shown are NOT exact.
2. Contractor to verify ALL plumbing drop locations prior to setting Floor Trusses.
3. Adjust spacing as needed not to exceed 24"oc.

Dimension Notes

1. All exterior wall to wall dimensions are to face of sheathing unless noted otherwise
2. All interior wall dimensions are to face of frame wall unless noted otherwise
3. All exterior wall to truss dimensions are to face of frame wall unless noted otherwise

Roof Area	= 4234.58 sq.ft.
Ridge Line	= 134.13 ft.
Hip Line	= 0 ft.
Horiz. OH	= 224.39 ft.
Raked OH	= 313.52 ft.
Decking	= 146 sheets

Connector Information					Nail Information	
Sym	Product	Manuf	Qty	Supported Member	Header	Truss
	HUS26	USP	6	Varies	16d/3-1/2"	16d/3-1/2"
	THD26-2	USP	2	Varies	16d/3-1/2"	10d/3"

COMTECH
ROOF & FLOOR TRUSSES & BEAMS
Reilly Road Industrial Park
Fayetteville, N.C. 28309
Phone: (910) 864-8787
Fax: (910) 864-4444

Bearing reactions less than or equal to 3000# are deemed to comply with the prescriptive Code requirements. The contractor shall refer to the attached Tables (derived from the prescriptive Code requirements) to determine the minimum foundation size and number of wood studs required to support reactions greater than 3000# but not greater than 15000#. A registered design professional shall be retained to design the support system for any reaction that exceeds those specified in the attached Tables. A registered design professional shall be retained to design the support system for all reactions that exceed 15000#.

Signature _____

David Landry

LOAD CHART FOR JACK STUDS

(BASED ON TABLES R502.5(1) & (b))

NUMBER OF JACK STUDS REQUIRED @ EA END OF HEADER/GIRDER

END REACTION (UP TO)	REQ'D STUDS FOR (1) PLY HEADER	END REACTION (UP TO)	REQ'D STUDS FOR (2) PLY HEADER	END REACTION (UP TO)	REQ'D STUDS FOR (3) PLY HEADER
1700	1	2550	1	3400	1
3400	2	5100	2	6800	2
5100	3	7650	3	10200	3
6800	4	10200	4	13600	4
8500	5	12750	5	17000	5
10200	6	15300	6		
11900	7				
13600	8				
15300	9				

BUILDER	Precision Custom Homes
JOB NAME	Lot 15 Liberty Meadows
PLAN	Sarah 3.0
SEAL DATE	N/A
QUOTE #	
JOB #	J0722-3744
COUNTY	Cameron / Harnett
ADDRESS	72 Edes Court
MODEL	Roof
DATE REV.	08/05/22
DRAWN BY	David Landry
SALESMAN	Neil Baggett

THIS IS A TRUSS PLACEMENT DIAGRAM ONLY. These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for temporary and permanent bracing of the roof and floor system and for the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding bracing, consult BCSI-B1 and BCSI-B3 provided with the truss delivery package or online @ sbcindustry.com

RE: J0722-3744
Lot 15 Liberty Meadow

Trenco
818 Soundside Rd
Edenton, NC 27932

Site Information:

Customer: Precision Custom Homes
Project Name: J0722-3744
Lot/Block: 15
Model: Sarah 3.0
Address: 72 Edes Court
Subdivision: Liberty Meadow
City: Cameron
State: NC

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

Design Code: IRC2015/TPI2014
Design Program: MiTek 20/20 8.4
Wind Code: N/A
Wind Speed: N/A mph
Roof Load: N/A psf
Floor Load: 55.0 psf

This package includes 13 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date
1	E16495391	ET1	12/22/2021
2	E16495392	F1	12/22/2021
3	E16495393	F1A	12/22/2021
4	E16495394	F2	12/22/2021
5	E16495395	F2A	12/22/2021
6	E16495396	F3	12/22/2021
7	E16495397	F4	12/22/2021
8	E16495398	F5	12/22/2021
9	E16495399	F5A	12/22/2021
10	E16495400	F6	12/22/2021
11	E16495401	F6A	12/22/2021
12	E16495402	FG1	12/22/2021
13	E16495403	FG2	12/22/2021

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

Truss Design Engineer's Name: Gilbert, Eric
My license renewal date for the state of North Carolina is December 31, 2022.
North Carolina COA: C-0844

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 TRENCO. Any project specific information included is for TRENCO customers file reference purpose only, and was not taken into account in the preparation of these designs. 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.

December 22, 2021
Gilbert, Eric

Job	Truss	Truss Type	Qty	Ply	Lot 15 Liberty Meadow
J0722-3744	ET1	GABLE	1	1	E16495391
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 22 10:34:41 2021 Page 1
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0-1-8

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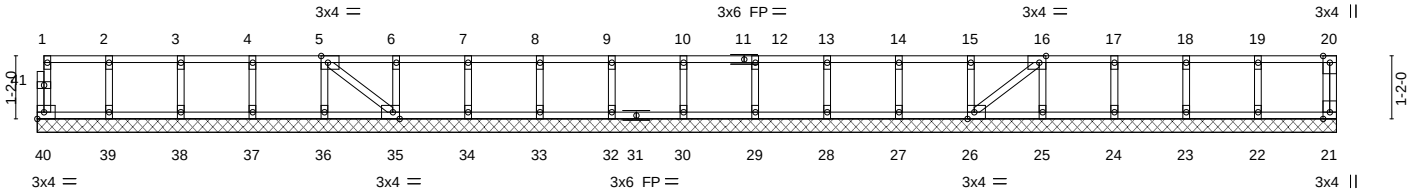

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0	13-4-0	14-8-0	16-0-0	17-4-0	18-8-0	20-0-0	21-4-0	22-8-0	24-1-8
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-5-8

Plate Offsets (X,Y)-- [5:0-1-8,Edge], [16:0-1-8,Edge], [26:0-1-8,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	0.07	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	21	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 104 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 6-0-0 oc bracing.

REACTIONS. All bearings 24-1-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 40, 21, 39, 38, 37, 36, 35, 34, 33, 32, 30, 29, 28, 27, 26, 25, 24, 23, 22

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.
7) CAUTION, Do not erect truss backwards.

December 22,2021

TRENCO
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 15 Liberty Meadow
J0722-3744	F1	Floor	4	1	E16495392
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 22 10:34:43 2021 Page 1
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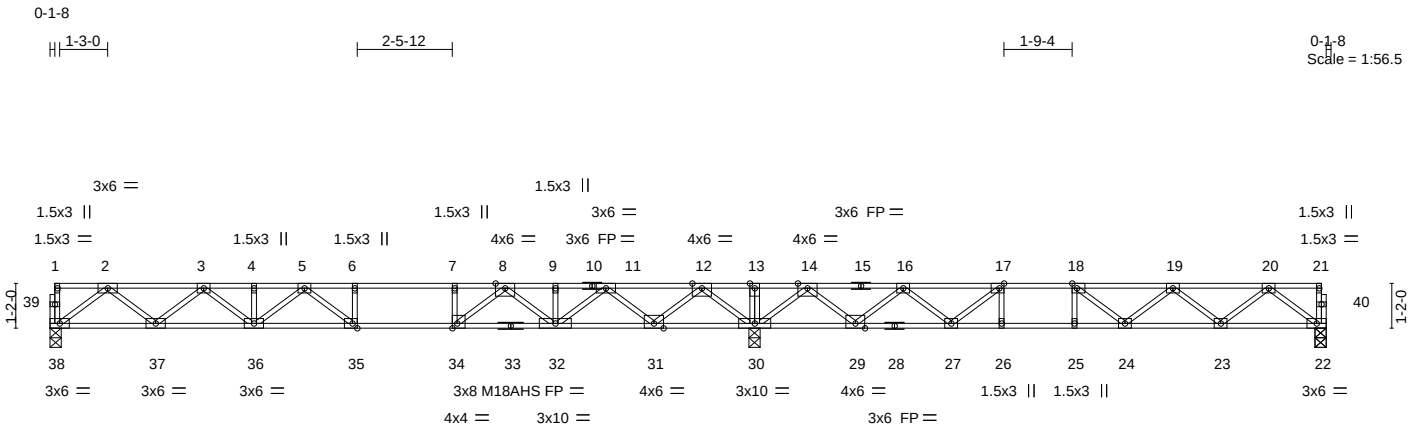

18-4-4 | 33-3-0
18-4-4 | 14-10-12

Plate Offsets (X,Y)-- [17:0-1-8,Edge], [18:0-1-8,Edge], [34:0-1-8,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	0.75	Vert(LL)	-0.28	35-36	>781	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	1.00	Vert(CT)	-0.38	35-36	>569	360	M18AHS	186/179
BCLL	0.0	Rep Stress Incr	YES	WB	0.65	Horz(CT)	0.06	22	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 165 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.1(flat) *Except* 1-10: 2x4 SP 2400F 2.0E(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. All bearings 0-3-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) except 38=883(LC 2), 22=704(LC 3), 22=616(LC 1), 30=2159(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1837/0, 3-4=-3015/0, 4-5=-3015/0, 5-6=-3339/0, 6-7=-3339/0, 7-8=-3339/0, 8-9=-2150/65, 9-11=-2150/65, 11-12=-437/652, 12-13=0/2659, 13-14=0/2659, 14-16=-460/1167, 16-17=-1629/577, 17-18=-2135/207, 18-19=-2064/0, 19-20=-1397/0
BOT CHORD 37-38=0/1103, 36-37=0/2546, 35-36=0/3310, 34-35=0/3339, 32-34=0/2736, 31-32=-340/1403, 30-31=-1304/0, 29-30=-1527/0, 27-29=-859/1191, 26-27=-207/2135, 25-26=-207/2135, 24-25=-207/2135, 23-24=0/1907, 22-23=0/860
WEBS 2-38=-1381/0, 2-37=0/955, 3-37=-924/0, 3-36=0/598, 5-36=-377/0, 5-35=-369/289, 12-30=-1799/0, 20-22=-1075/0, 20-23=0/700, 19-23=-664/0, 14-30=-1546/0, 14-29=0/1128, 16-29=-1076/0, 16-27=0/726, 12-31=0/1369, 11-31=-1318/0, 11-32=0/1018, 8-32=-816/0, 8-34=0/1106, 7-34=-524/0, 17-27=-958/0, 17-26=0/322, 18-24=-90/366, 18-25=-294/0

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 3x4 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.
6) CAUTION, Do not erect truss backwards.

December 22,2021

TRENCO
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 15 Liberty Meadow
J0722-3744	F1A	Floor	1	1	E16495393
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 22 10:34:44 2021 Page 1
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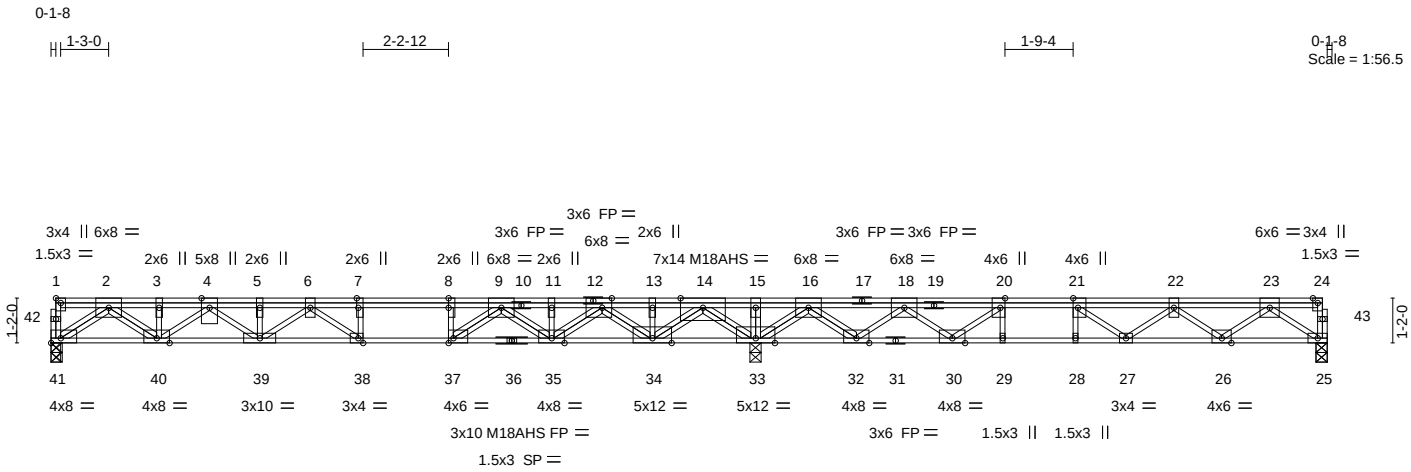

18-4-4 33-3-0
18-4-4 14-10-12

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [7:0-3-0,Edge], [8:0-3-0,0-0-0], [12:0-3-0,Edge], [20:0-3-0,Edge], [21:0-3-0,Edge], [37:0-1-8,Edge], [38:0-1-8,Edge], [41:Edge,0-1-8]

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	0.98	Vert(LL)	-0.19	38	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.91	Vert(CT)	-0.50	38-39	>440	360	M18AHS	186/179
BCLL	0.0	Rep Stress Incr	NO	WB	0.88	Horz(CT)	0.08	25	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 234 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-10-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 33-34,32-33,30-32.

REACTIONS. All bearings 0-3-8 except (jt=length) 41=0-3-0, 41=0-3-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) except 41=1742(LC 2), 41=1695(LC 1), 25=1315(LC 3), 25=1207(LC 1), 33=4660(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3918/0, 3-4=-3939/0, 4-5=-6200/0, 5-6=-6200/0, 6-7=-6452/0, 7-8=-6452/0, 8-9=-6452/0, 9-11=-3582/0, 11-12=-3582/0, 12-13=0/1512, 13-14=0/1512, 14-15=0/7049, 15-16=0/7049, 16-18=0/2860, 18-20=-2141/306, 20-21=-3554/0, 21-22=-3682/0, 22-23=-2673/0
BOT CHORD 40-41=0/2233, 39-40=0/5244, 38-39=0/6694, 37-38=0/6452, 35-37=0/4888, 34-35=0/2068, 33-34=-3873/0, 32-33=-4251/0, 30-32=-1424/888, 29-30=0/3554, 28-29=0/3554, 27-28=0/3554, 26-27=0/3655, 25-26=0/1671
WEBS 2-41=-2731/0, 2-40=0/2138, 3-40=-363/0, 4-40=-1603/0, 4-39=0/1192, 5-39=-285/0, 6-39=-617/0, 6-38=-762/0, 7-38=-23/365, 14-33=-3899/0, 14-34=0/3358, 13-34=-340/0, 12-34=-3062/0, 12-35=0/2105, 11-35=-410/0, 9-35=-1704/0, 9-37=0/2330, 8-37=-1254/0, 23-25=-2043/0, 23-26=0/1274, 22-26=-1247/0, 22-27=-360/34, 18-32=-2518/0, 18-30=0/1840, 20-30=-2105/0, 21-27=0/650, 21-28=-277/0, 20-29=0/301, 15-33=-351/0, 16-33=-3476/0, 16-32=0/2432

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 3x6 MT20 unless otherwise indicated.
4) The Fabrication Tolerance at joint 36 = 11%
5) Plates checked for a plus or minus 1 degree rotation about its center.
6) Non Standard bearing condition. Review required.
7) Load case(s) 1, 2, 3, 4, 5, 6, 7 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
8) 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.
9) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00

December 22,2021

Continued on page 2

TRENCO
818 Soundside Road
Edenton, NC 27932

LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 1-24=-220, 25-41=-10
2) 1st Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 1-15=-220, 15-24=-140, 25-41=-10
3) 2nd Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 1-15=-140, 15-24=-220, 25-41=-10
4) 1st chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 1-8=-220, 8-15=-140, 15-24=-220, 25-41=-10
5) 2nd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 1-7=-140, 7-24=-220, 25-41=-10
6) 3rd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 1-21=-220, 21-24=-140, 25-41=-10
7) 4th chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 1-15=-220, 15-20=-140, 20-24=-220, 25-41=-10

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 15 Liberty Meadow
J0722-3744	F2	FLOOR	3	1	E16495394
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 22 10:34:45 2021 Page 1
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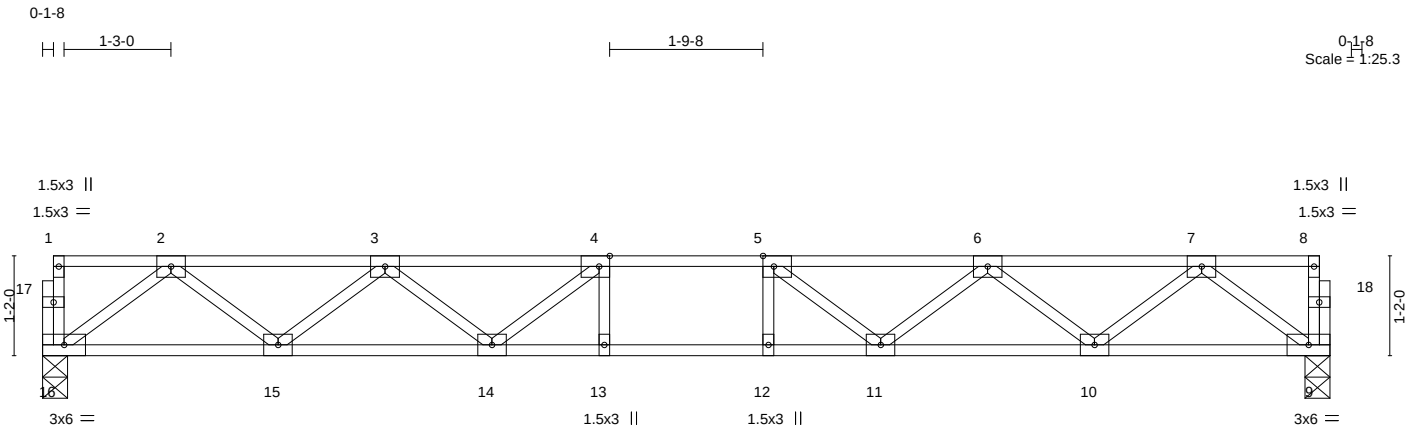

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge]

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	0.34	Vert(LL)	-0.15	12-13	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.72	Vert(CT)	-0.20	12-13	>886	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.41	Horz(CT)	0.04	9	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 75 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) 16=0-3-8, 9=0-3-8
Max Grav 16=807(LC 1), 9=807(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1656/0, 3-4=-2575/0, 4-5=-2865/0, 5-6=-2575/0, 6-7=-1656/0
BOT CHORD 15-16=0/1000, 14-15=0/2277, 13-14=0/2865, 12-13=0/2865, 11-12=0/2865, 10-11=0/2277, 9-10=0/1000
WEBS 2-16=-1252/0, 2-15=0/853, 3-15=-809/0, 3-14=0/447, 4-14=-545/0, 7-9=-1252/0, 7-10=0/853, 6-10=-809/0, 6-11=0/447, 5-11=-545/0

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) 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.

December 22,2021

TRENCO
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 15 Liberty Meadow
J0722-3744	F2A	FLOOR GIRDER	1	1	E16495395
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 22 10:34:46 2021 Page 1
ID:oZsdJhAH7sgso7cS4ggLwVyqezV-7rC?uCTr4kOxSCnEtlSl0mjjObHsNbS9b?KNtAy6RTN

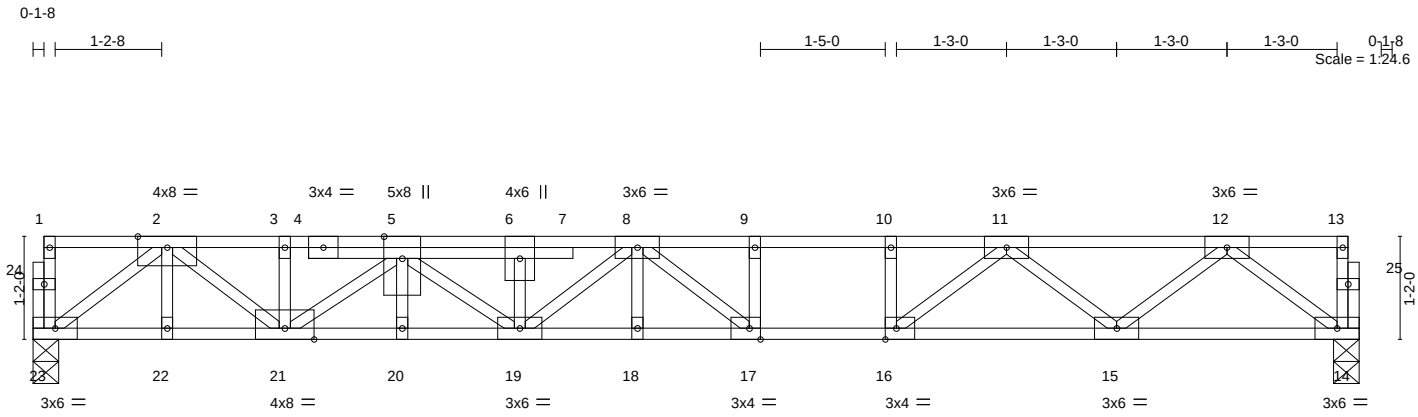

Plate Offsets (X,Y)-- [16:0-1-8,Edge], [17:0-1-8,Edge]

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	0.70	Vert(LL)	-0.19	17-18	>912	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.75	Vert(CT)	-0.27	17-18	>658	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.60	Horz(CT)	0.04	14	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 85 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.1(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.

REACTIONS. (size) 14=0-3-8, 23=0-3-8
Max Grav 14=882(LC 1), 23=1005(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2255/0, 3-5=-2259/0, 5-6=-3456/0, 6-8=-3456/0, 8-9=-3166/0, 9-10=-3166/0, 10-11=-3166/0, 11-12=-1814/0
BOT CHORD 22-23=0/1266, 21-22=0/1266, 20-21=0/3230, 19-20=0/3230, 18-19=0/3473, 17-18=0/3473, 16-17=0/3166, 15-16=0/2550, 14-15=0/1100
WEBS 12-14=-1377/0, 12-15=0/930, 11-15=-958/0, 11-16=0/920, 10-16=-343/0, 2-23=-1575/0, 2-21=0/1255, 5-21=-1210/0, 5-19=0/281, 8-17=-600/0

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.
5) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 353 lb down at 4-4-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.
6) 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
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 14-23=-10, 1-13=-100
Concentrated Loads (lb)
Vert: 5=-273(F)

December 22,2021

TRENCO
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 15 Liberty Meadow E16495396
J0722-3744	F3	Floor	1	1	Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 22 10:34:46 2021 Page 1
ID:oZsdJhAH7sgso7cS4ggLwVyqezV-7rC?uCTr4kOxSCnEtlSl0mjj5bJ3Nfv9b?KNtAy6RTN

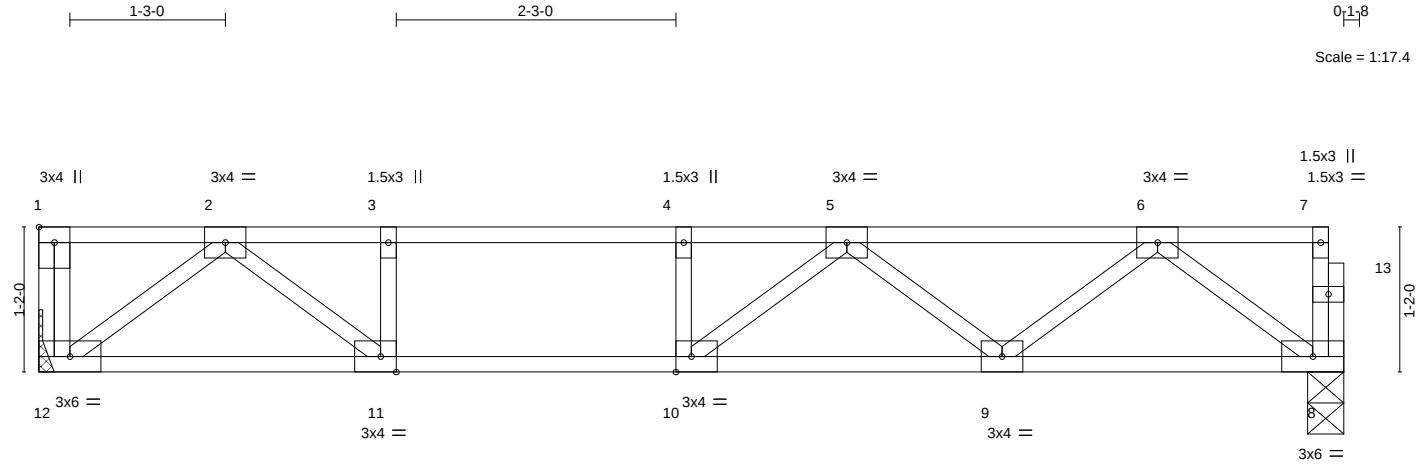

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [10:0-1-8,Edge], [11:0-1-8,Edge]

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	0.66	Vert(LL)	-0.14	9-10	>904	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.61	Vert(CT)	-0.18	9-10	>684	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.38	Horz(CT)	0.01	8	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 53 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) 12=Mechanical, 8=0-3-8
Max Grav 12=564(LC 1), 8=558(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1261/0, 3-4=-1261/0, 4-5=-1261/0, 5-6=-1043/0
BOT CHORD 11-12=0/656, 10-11=0/1261, 9-10=0/1325, 8-9=0/682
WEBS 2-12=-822/0, 2-11=0/791, 6-8=-852/0, 6-9=0/471, 5-9=-367/0, 3-11=-377/0

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) Refer to girder(s) for truss to truss connections.
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.
5) CAUTION, Do not erect truss backwards.

December 22,2021

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 15 Liberty Meadow
J0722-3744	F4	FLOOR	5	1	E16495397
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 22 10:34:47 2021 Page 1
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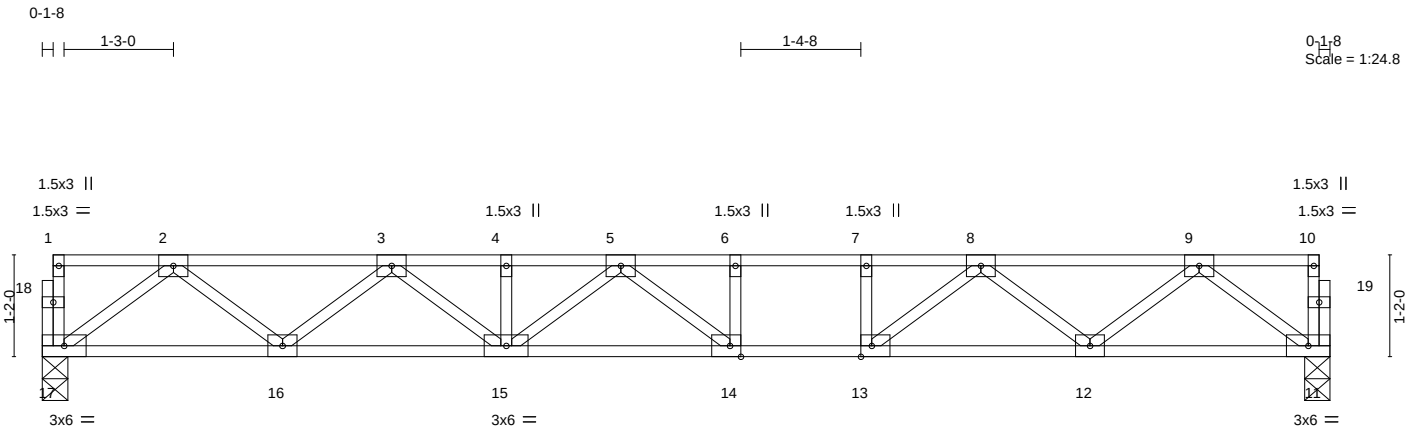

Plate Offsets (X,Y)-- [13:0-1-8,Edge], [14:0-1-8,Edge]

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	0.51	Vert(LL)	-0.17	14-15	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.73	Vert(CT)	-0.24	14-15	>732	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: 76 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) 17=0-3-8, 11=0-3-8
Max Grav 17=791(LC 1), 11=791(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1607/0, 3-4=-2556/0, 4-5=-2556/0, 5-6=-2657/0, 6-7=-2657/0, 7-8=-2657/0, 8-9=-1596/0
BOT CHORD 16-17=0/983, 15-16=0/2207, 14-15=0/2744, 13-14=0/2657, 12-13=0/2204, 11-12=0/984
WEBS 2-17=-1230/0, 2-16=0/813, 3-16=-780/0, 3-15=0/446, 5-15=-253/0, 5-14=-298/246, 9-11=-1232/0, 9-12=0/797, 8-12=-791/0, 8-13=0/722, 7-13=-312/0

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) 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.

December 22,2021

TRENCO
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 15 Liberty Meadow
J0722-3744	F5	Floor	3	1	E16495398
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 22 10:34:48 2021 Page 1
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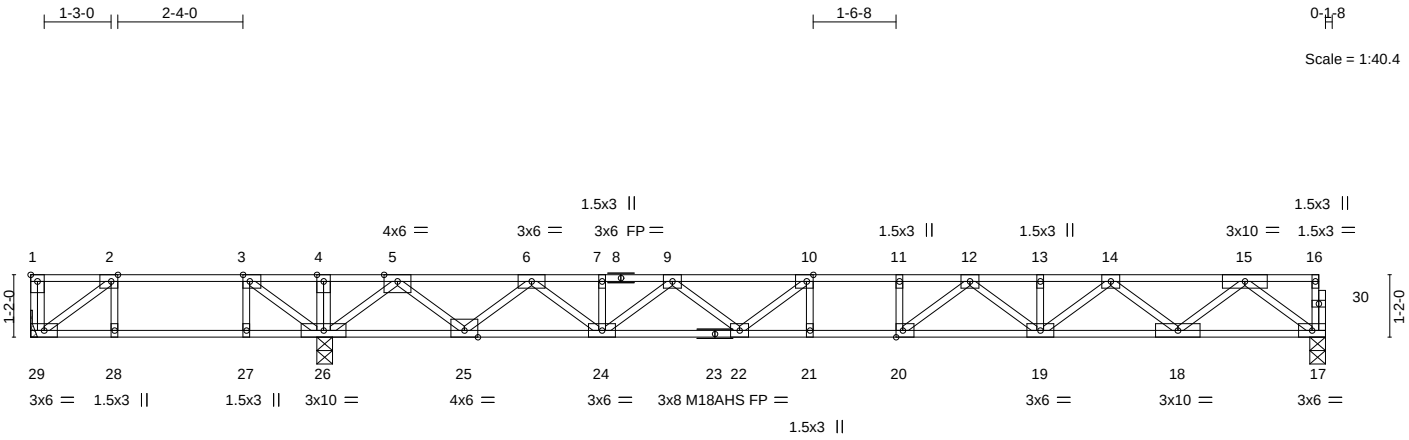


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [2:0-1-8,Edge], [3:0-1-8,Edge], [10:0-1-8,Edge], [20:0-1-8,Edge]

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	0.71	Vert(LL)	-0.31	21	>726	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.98	Vert(CT)	-0.42	21	>532	360	M18AHS	186/179
BCLL	0.0	Rep Stress Incr	NO	WB	0.60	Horz(CT)	0.07	17	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 122 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.1(flat) *Except* 1-8: 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

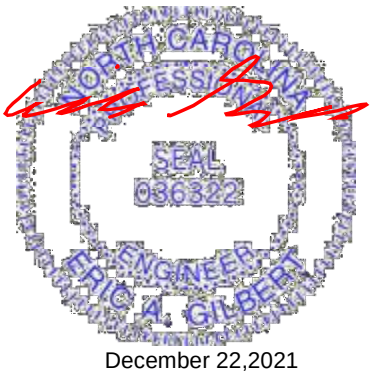
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 28-29,27-28,26-27.

REACTIONS. (size) 29=Mechanical, 26=0-3-8, 17=0-3-8
Max Grav 29=1683(LC 3), 26=1589(LC 8), 17=956(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-29=-1594/0, 2-3=-184/442, 3-4=0/1182, 4-5=0/1182, 5-6=-1297/0, 6-7=-2906/0, 7-9=-2906/0, 9-10=-3769/0, 10-11=-4013/0, 11-12=-4013/0, 12-13=-3363/0, 13-14=-3363/0, 14-15=-2024/0
BOT CHORD 28-29=-442/184, 27-28=-442/184, 26-27=-442/184, 25-26=0/334, 24-25=0/2217, 22-24=0/3494, 21-22=0/4013, 20-21=0/4013, 19-20=0/3768, 18-19=0/2810, 17-18=0/1201
WEBS 3-26=-1130/0, 2-29=-227/546, 5-26=-1752/0, 5-25=0/1266, 6-25=-1211/0, 6-24=0/892, 9-24=-761/0, 9-22=0/484, 10-22=-568/47, 15-17=-1504/0, 15-18=0/1071, 14-18=-1024/0, 14-19=0/705, 12-19=-517/0, 12-20=-94/603

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 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 1 degree rotation about its center.
5) Refer to girder(s) for truss to truss connections.
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.
7) 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: 17-29=-10, 1-16=-100
Concentrated Loads (lb)
Vert: 1=-1450



December 22,2021

TRENCO
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 15 Liberty Meadow
J0722-3744	F5A	Floor	1	1	E16495399
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 22 10:34:49 2021 Page 1
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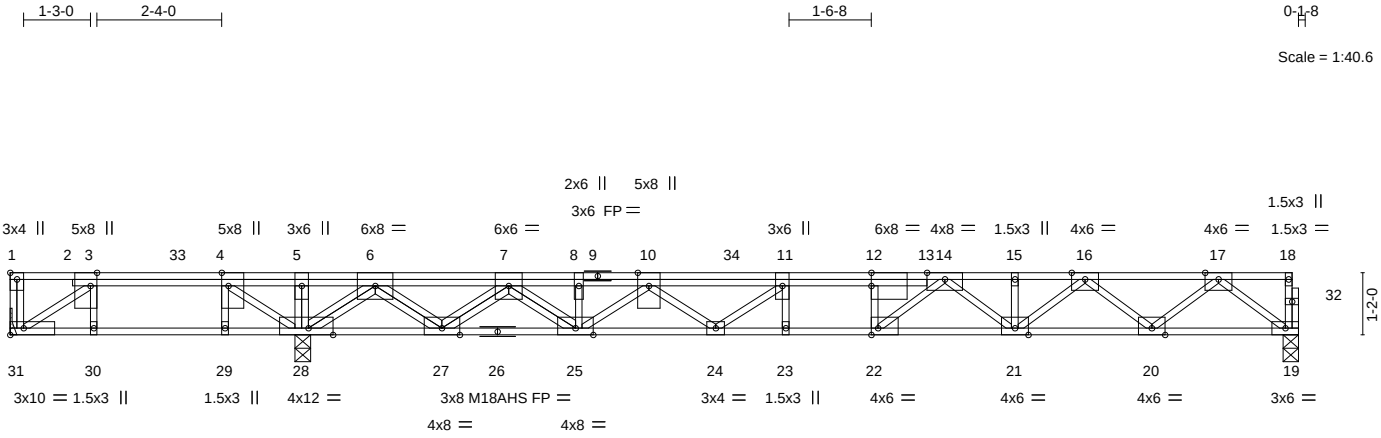

5-4-0 16-3-0 24-1-8
5-4-0 10-11-0 7-10-8

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [3:0-3-0,Edge], [4:0-3-0,Edge], [22:0-1-8,Edge], [28:0-5-8,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	0.96	Vert(LL)	-0.36	23-24	>625	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.96	Vert(CT)	-0.48	23-24	>461	360	M18AHS	186/179
BCLL	0.0	Rep Stress Incr	NO	WB	0.83	Horz(CT)	0.07	19	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 153 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP No.1(flat) *Except*
19-26: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-8-1 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 31=Mechanical, 28=0-3-8, 19=0-3-8
Max Uplift 31=-322(LC 3)
Max Grav 31=477(LC 2), 28=3044(LC 5), 19=1214(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-31=-261/0, 3-4=-607/968, 4-5=0/3271, 5-6=0/3271, 6-7=-1121/76, 7-8=-4163/0, 8-10=-4158/0, 10-11=-6230/0, 11-12=-6557/0, 12-14=-6580/0, 14-15=-4640/0, 15-16=-4640/0, 16-17=-2672/0
BOT CHORD 30-31=-968/607, 29-30=-968/607, 28-29=-968/607, 27-28=-949/0, 25-27=0/2760, 24-25=0/5785, 23-24=0/6557, 22-23=0/6557, 21-22=0/5342, 20-21=0/3759, 19-20=0/1541
WEBS 5-28=0/631, 3-31=-735/1171, 4-28=-3537/0, 6-28=-2859/0, 6-27=0/2169, 7-27=-2119/0, 7-25=0/1817, 10-25=-2032/0, 10-24=0/654, 11-24=-645/0, 17-19=-1931/0, 17-20=0/1472, 16-20=-1414/0, 16-21=0/1125, 14-21=-897/0, 14-22=0/1739, 12-22=-911/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 322 lb uplift at joint 31.
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.
7) 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: 19-31=-10, 1-18=-100
Concentrated Loads (lb)
Vert: 33=-940 34=-800

December 22,2021

TRENCO
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 15 Liberty Meadow
J0722-3744	F6	Floor	7	1	E16495400
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 22 10:34:50 2021 Page 1
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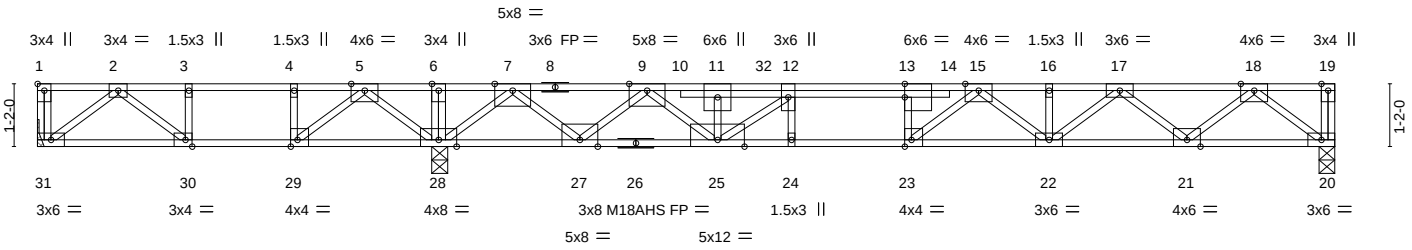
1-3-0 1-10-0 2-0-8

Scale = 1:40.3



7-4-0 24-1-8
7-4-0 16-9-8

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [23:0-1-8,Edge], [29:0-1-8,Edge], [30:0-1-8,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	0.96	Vert(LL)	-0.25	24	>780	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.70	Vert(CT)	-0.35	23-24	>571	360	M18AHS	186/179
BCLL	0.0	Rep Stress Incr	NO	WB	0.96	Horz(CT)	0.05	20	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 129 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.1(flat) *Except*
1-8: 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP No.1(flat) *Except*
20-26: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-11-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 31=Mechanical, 28=0-3-8, 20=0-3-8
Max Grav 31=1202(LC 2), 28=2294(LC 1), 20=1067(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-31=-946/0, 2-3=-332/917, 3-4=-332/917, 4-5=-332/917, 5-6=0/2377, 6-7=0/2377, 7-9=-1352/0, 9-11=-4371/0, 11-12=-4368/0, 12-13=-5156/0, 13-15=-5168/0, 15-16=-3885/0, 16-17=-3885/0, 17-18=-2288/0
BOT CHORD 30-31=-303/307, 29-30=-917/332, 28-29=-1696/0, 27-28=-404/0, 25-27=0/2832, 24-25=0/5156, 23-24=0/5156, 22-23=0/4388, 21-22=0/3195, 20-21=0/1341
WEBS 2-31=-385/380, 2-30=-784/32, 3-30=-39/373, 7-28=-2475/0, 7-27=0/2007, 9-27=-1953/0, 9-25=0/1974, 11-25=-727/10, 18-20=-1682/0, 18-21=0/1233, 17-21=-1181/0, 17-22=0/881, 15-22=-642/0, 5-28=-1048/0, 5-29=0/1249, 4-29=-600/0, 15-23=0/1285, 13-23=-683/0, 12-25=-1076/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates 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.

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 20-31=-10, 1-19=-100
Concentrated Loads (lb)
Vert: 1=-900 32=-800

December 22,2021

TRENCO
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 15 Liberty Meadow E16495401
J0722-3744	F6A	Floor	1	1	Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 22 10:34:51 2021 Page 1
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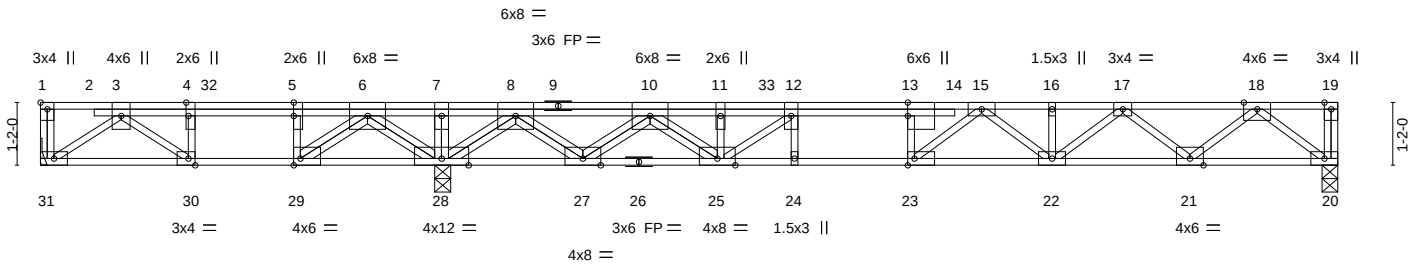


7-4-0 24-1-8
7-4-0 16-9-8

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [4:0-3-0,Edge], [5:0-3-0,0-0-0], [13:0-3-0,0-0-0], [23:0-1-8,Edge], [29:0-1-8,Edge], [30:0-1-8,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	0.76	Vert(LL)	-0.21	23-24	>927	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.97	Vert(CT)	-0.29	23-24	>676	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.71	Horz(CT)	0.05	20	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 157 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP 2400F 2.0E(flat) *Except* 9-19: 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 5-6-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 31=Mechanical, 28=0-3-8, 20=0-3-8
Max Uplift 31=-215(LC 3)
Max Grav 31=847(LC 2), 28=2946(LC 1), 20=990(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=-1632/1197, 4-5=-1632/1197, 5-6=-1632/1197, 6-7=0/3615, 7-8=0/3615, 8-10=-341/0, 10-11=-3536/0, 11-12=-3569/0, 12-13=-4454/0, 13-15=-4462/0, 15-16=-3507/0, 16-17=-3507/0, 17-18=-2093/0
BOT CHORD 30-31=-294/1101, 29-30=-1197/1632, 28-29=-2710/85, 27-28=-1483/0, 25-27=0/2001, 24-25=0/4454, 23-24=0/4454, 22-23=0/3916, 21-22=0/2912, 20-21=0/1239
WEBS 7-28=-352/0, 3-31=-1351/361, 3-30=-1126/663, 4-30=-428/625, 8-28=-2646/0, 8-27=0/2173, 10-27=-2122/0, 10-25=0/1958, 11-25=-712/55, 12-25=-1149/0, 18-20=-1554/0, 18-21=0/1112, 17-21=-1066/0, 17-22=0/760, 15-22=-524/0, 15-23=-85/1047, 13-23=-575/42, 6-28=-1873/0, 6-29=0/2999, 5-29=-1661/0

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) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 215 lb uplift at joint 31.
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.
7) CAUTION, Do not erect truss backwards.

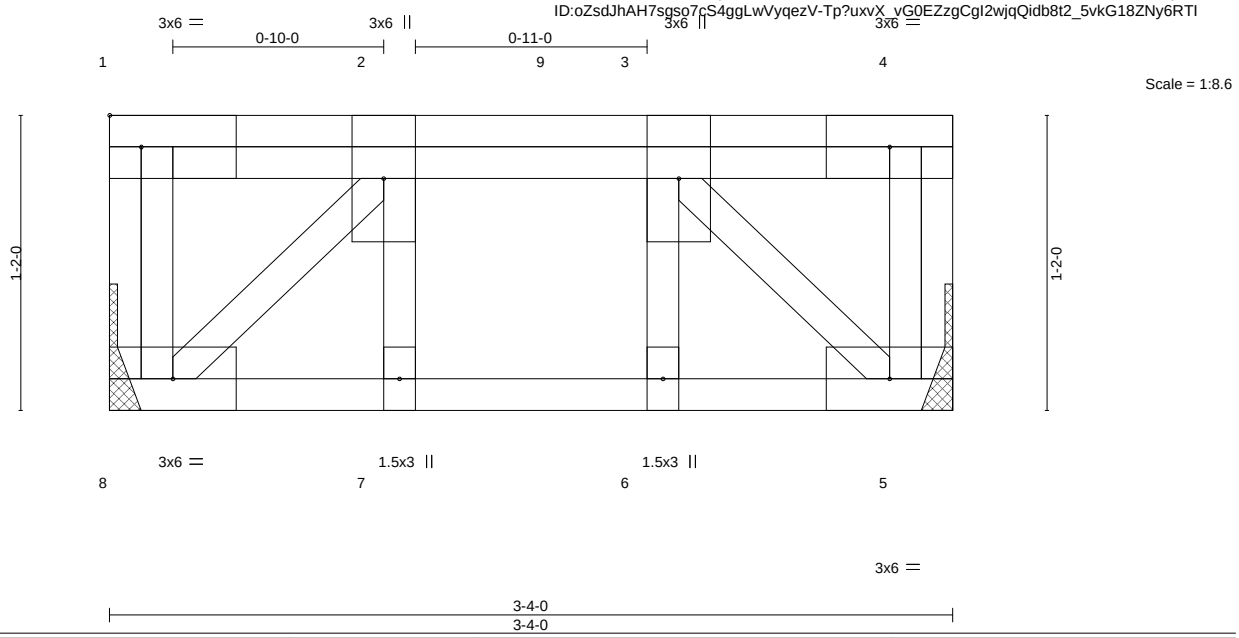
LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 20-31=-10, 1-19=-100
Concentrated Loads (lb)
Vert: 32=-1000 33=-800

December 22,2021

TRENCO
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 15 Liberty Meadow
J0722-3744	FG1	Floor Girder	1	1	E16495402
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 22 10:34:51 2021 Page 1
ID:oZsdJhAH7sgso7cS4ggLwVyqezV-Tp?uxvX_vG0EZzgCgI2wjqQidb8t2_5vkG18ZNy6RTI



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	0.16	Vert(LL)	-0.00	6	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.12	Vert(CT)	-0.00	6	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.12	Horz(CT)	0.00	5	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 25 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 3-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=Mechanical, 5=Mechanical
Max Grav 8=373(LC 1), 5=430(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-386/0
BOT CHORD 7-8=0/386, 6-7=0/386, 5-6=0/386
WEBS 2-8=-535/0, 3-5=-535/0

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) Refer to girder(s) for truss to truss connections.
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.
5) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 490 lb down at 1-10-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
6) 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
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-10, 1-4=-100
Concentrated Loads (lb)
Vert: 9=-464(B)

December 22,2021

TRENCO
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 15 Liberty Meadow E16495403
J0722-3744	FG2	FLOOR GIRDER	1	1	Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 22 10:34:52 2021 Page 1
ID:oZsdJhAH7sgso7cS4ggLwVyqezV-x?ZG9FYcga85A7EOE0Z9G1zmx?JgnGU2zwni5qy6RTH

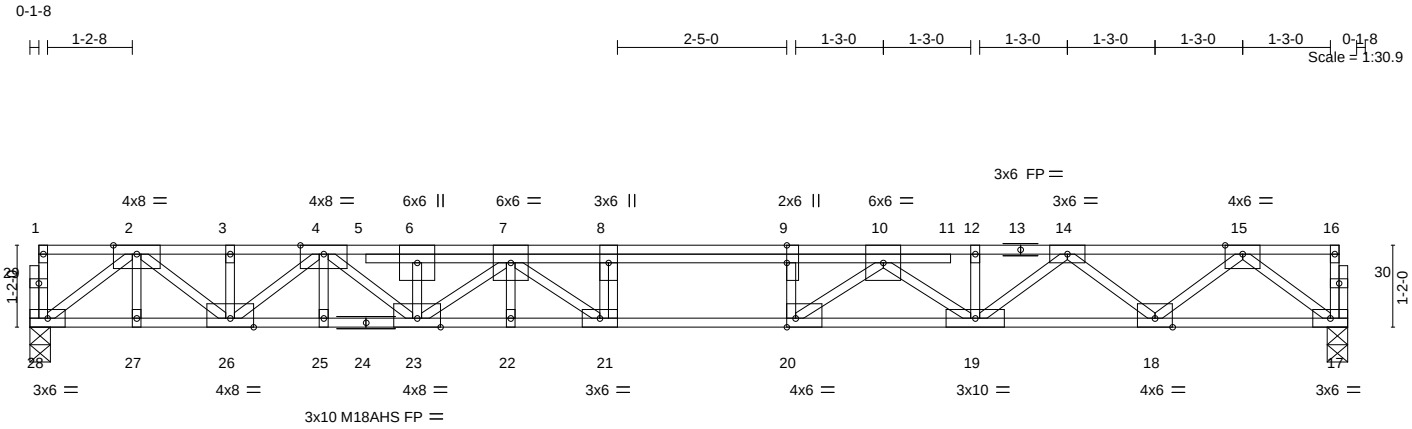


Plate Offsets (X,Y)-- [9:0-3-0,0-0-0], [20:0-1-8,Edge]

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	0.63	Vert(LL)	-0.36	21	>614	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.78	Vert(CT)	-0.50	21	>441	360	M18AHS	186/179
BCLL	0.0	Rep Stress Incr	NO	WB	0.75	Horz(CT)	0.09	17	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 111 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.1(flat) *Except*
17-24: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-4-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 17=0-3-8, 28=0-3-8
Max Grav 17=1158(LC 1), 28=1199(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2769/0, 3-4=-2769/0, 4-6=-4886/0, 6-7=-4884/0, 7-8=-6060/0, 8-9=-6060/0, 9-10=-6060/0, 10-12=-4351/0, 12-14=-4348/0, 14-15=-2532/0
BOT CHORD 27-28=0/1520, 26-27=0/1520, 25-26=0/3801, 23-25=0/3801, 22-23=0/5727, 21-22=0/5727, 20-21=0/6060, 19-20=0/5229, 18-19=0/3559, 17-18=0/1466
WEBS 15-17=-1837/0, 15-18=0/1387, 14-18=-1337/0, 14-19=0/1007, 10-19=-1099/0, 10-20=0/1397, 9-20=-727/0, 2-28=-1893/0, 2-26=0/1585, 4-26=-1309/0, 4-23=0/1374, 7-23=-1046/0, 7-21=-83/852, 8-21=-478/0

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.
6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 374 lb down at 8-1-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

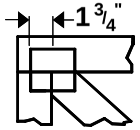
LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 1-16=-100, 17-28=-10
Concentrated Loads (lb)
Vert: 8=-330(B)

December 22,2021

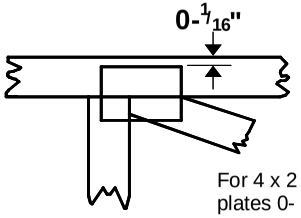
TRENCO
818 Soundside Road
Edenton, NC 27932

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

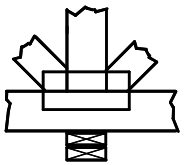
4 x 4

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

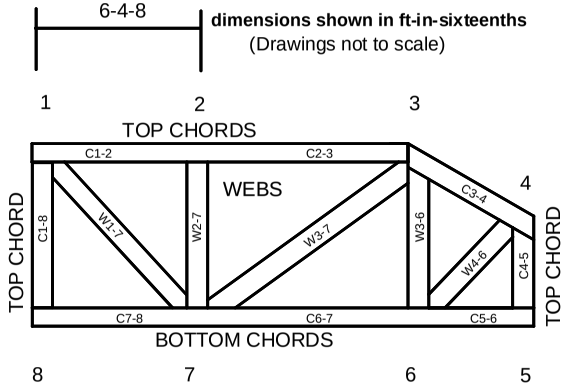


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

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



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.

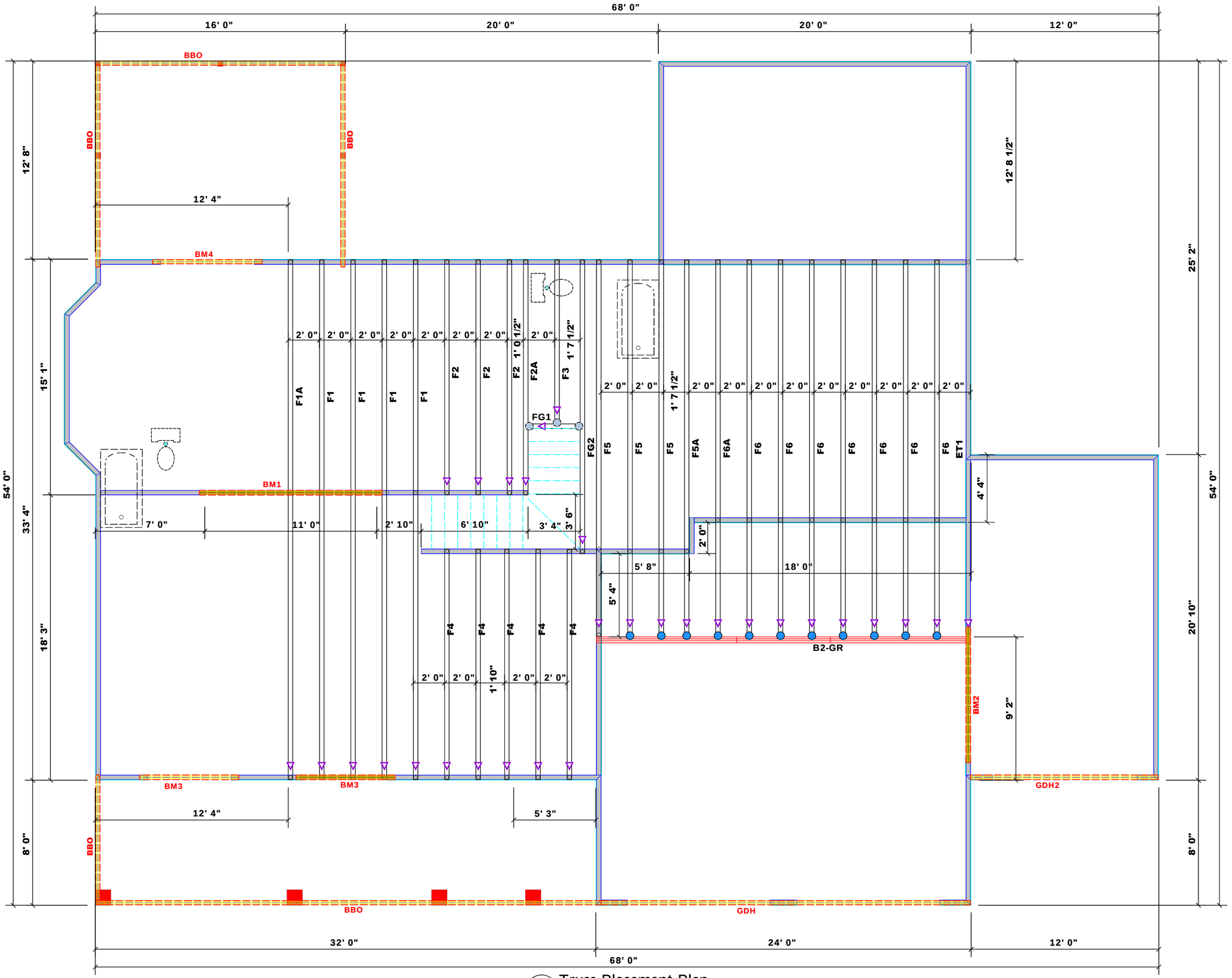
Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

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.



1 Truss Placement Plan

Scale: 1/4"=1'

Products					
PlotID	Length	Product	Plies	Net Qty	Fab Type
BM1	12' 0"	1-3/4"x 14" LVL Kerto-S	2	2	FF
BM2	9' 0"	1-3/4"x 11-7/8" LVL Kerto-S	2	2	FF
BM3	7' 0"	1-3/4"x 9-1/4" LVL Kerto-S	2	4	FF
BM4	8' 0"	2x10 SPF No.2	2	2	FF
GDH	24' 0"	2x12 SPF No.2	2	2	FF
GDH2	12' 0"	1-3/4"x 11-7/8" LVL Kerto-S	2	2	FF

Plumbing Drop Notes

1. Plumbing drop locations shown are NOT exact.
2. Contractor to verify ALL plumbing drop locations prior to setting Floor Trusses.
3. Adjust spacing as needed not to exceed 24"oc.

Dimension Notes

1. All exterior wall to wall dimensions are to face of sheathing unless noted otherwise
2. All interior wall dimensions are to face of frame wall unless noted otherwise
3. All exterior wall to truss dimensions are to face of frame wall unless noted otherwise

Connector Information					Nail Information	
Sym	Product	Manuf	Qty	Supported Member	Header	Truss
●	HUS410	USP	11	Varies	16d/3-1/2"	16d/3-1/2"
○	MSH422	USP	3	Varies	10d/3"	10d/3"

COMTECH

ROOF & FLOOR TRUSSES & BEAMS

Reilly Road Industrial Park
Fayetteville, N.C. 28309
Phone: (910) 864-8787
Fax: (910) 864-4444

Bearing reactions less than or equal to 3000# are deemed to comply with the prescriptive Code requirements. The contractor shall refer to the attached Tables (derived from the prescriptive Code requirements) to determine the minimum foundation size and number of wood studs required to support reactions greater than 3000# but not greater than 15000#. A registered design professional shall be retained to design the support system for any reaction that exceeds those specified in the attached Tables. A registered design professional shall be retained to design the support system for all reactions that exceed 15000#.

Signature _____

David Landry

LOAD CHART FOR JACK STUDS

(BASED ON TABLES R502.5(1) & (b))

NUMBER OF JACK STUDS REQUIRED @ EA END OF HEADER/GIRDER

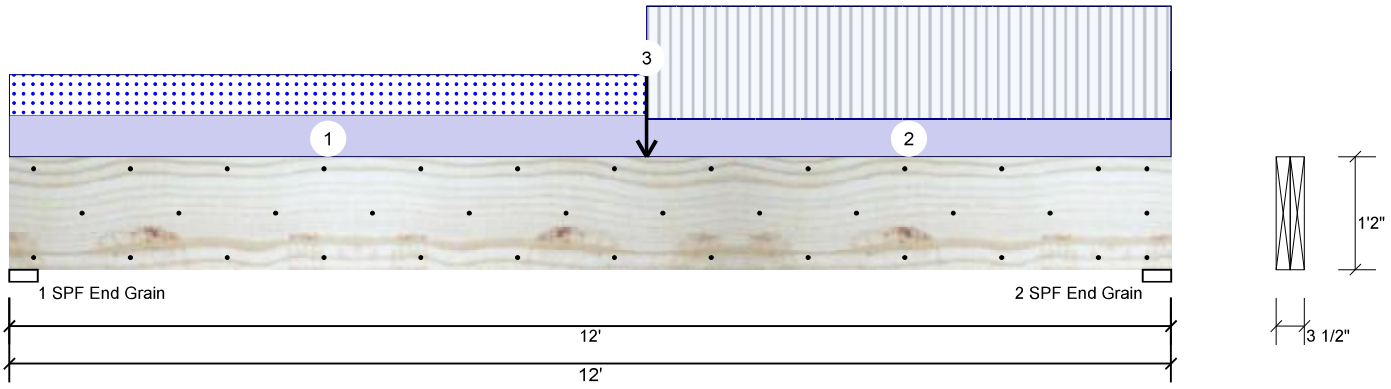
END REACTION (UP TO)	REQ'D STUDS FOR (2) PLY HEADER	END REACTION (UP TO)	REQ'D STUDS FOR (3) PLY HEADER	END REACTION (UP TO)	REQ'D STUDS FOR (4) PLY HEADER
1700	1	2550	1	3400	1
3400	2	5100	2	6800	2
5100	3	7650	3	10200	3
6800	4	10200	4	13600	4
8500	5	12750	5	17000	5
10200	6	15300	6		
11900	7				
13600	8				
15300	9				

BUILDER	Precision Custom Homes
JOB NAME	Lot 15 Liberty Meadows
PLAN	Sarah 3.0
SEAL DATE	N/A
QUOTE #	
JOB #	J0722-3745
COUNTY	Cameron / Harnett
ADDRESS	72 Edes Court
MODEL	Floor
DATE REV.	08/05/22
DRAWN BY	David Landry
SALESMAN	Neil Baggett

Client:	Precision Custom Homes	Date:	8/5/2022
Project:	Sarah 3.0	Input by:	David Landry
Address:	72 Edes Court Cameron, NC 28396	Job Name:	Lot 15 Liberty Meadows
		Project #:	J0722-3745

BM1 Kerto-S LVL 1.750" X 14.000" 2-Ply - PASSED

Level: Level



Member Information

Type:	Girder	Application:	Floor
Plies:	2	Design Method:	ASD
Moisture Condition:	Dry	Building Code:	IBC 2012
Deflection LL:	480	Load Sharing:	No
Deflection TL:	360	Deck:	Not Checked
Importance:	Normal - II		
Temperature:	Temp <= 100°F		

Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	2515	2325	1421	0	0
2	Vertical	5367	2369	514	0	0

Bearings

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.500"	Vert	51%	2325 / 2952	5277	L	D+0.75(L+S)
2 - SPF End Grain	3.500"	Vert	75%	2369 / 5367	7736	L	D+L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	24155 ft-lb	6'7"	26999 ft-lb	0.895 (89%)	D+L	L
Unbraced	24155 ft-lb	6'7"	24188 ft-lb	0.999 (100%)	D+L	L
Shear	6158 lb	10'6 1/2"	10453 lb	0.589 (59%)	D+L	L
LL Defl inch	0.242 (L/573)	6'7"	0.289 (L/480)	0.838 (84%)	L	L
TL Defl inch	0.373 (L/371)	6'6"	0.385 (L/360)	0.970 (97%)	D+L	L

Design Notes

1. Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
2. Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
3. Refer to last page of calculations for fasteners required for specified loads.
4. Girders are designed to be supported on the bottom edge only.
5. Top loads must be supported equally by all plies.
6. Top must be laterally braced at a maximum of 3'3 1/4" o.c.
7. Bottom must be laterally braced at end bearings.
8. Lateral slenderness ratio based on single ply width.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Part. Uniform	0-0-0 to 6-7-0		Top	294 PLF	0 PLF	294 PLF	0 PLF	0 PLF	A1
2	Part. Uniform	6-7-0 to 12-0-0		Top	270 PLF	810 PLF	0 PLF	0 PLF	0 PLF	F1
3	Point	6-7-0		Top	1165 lb	3495 lb	0 lb	0 lb	0 lb	F1A
	Bearing Length	0-3-8								
	Self Weight				11 PLF					

Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

1. Dry service conditions, unless noted otherwise
2. LVL not to be treated with fire retardant or corrosive chemicals

Handling & Installation

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation
6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

Manufacturer Info

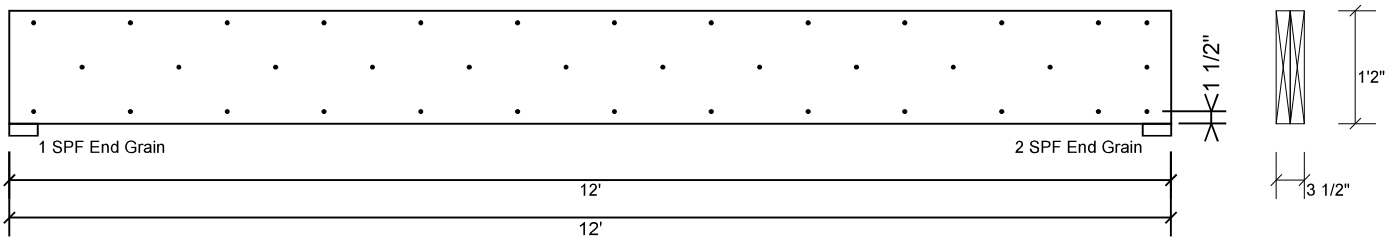
Metsä Wood
301 Merritt 7 Building, 2nd Floor
Norwalk, CT 06851
(800) 622-5850
www.metsawood.com/us

Comtech, Inc.
1001 S. Reilly Road, Suite #639
Fayetteville, NC
USA
28314
910-864-TRUS

Client:	Precision Custom Homes	Date:	8/5/2022
Project:	Sarah 3.0	Input by:	David Landry
Address:	72 Edes Court Cameron, NC 28396	Job Name:	Lot 15 Liberty Meadows
		Project #:	J0722-3745

BM1 Kerto-S LVL 1.750" X 14.000" 2-Ply - PASSED

Level: Level



Multi-Ply Analysis

Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6".

Capacity	0.0 %
Load	0.0 PLF
Yield Limit per Foot	245.6 PLF
Yield Limit per Fastener	81.9 lb.
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	
Duration Factor	1.00

Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

1. Dry service conditions, unless noted otherwise
2. LVL not to be treated with fire retardant or corrosive chemicals

Handling & Installation

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation
6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

Manufacturer Info

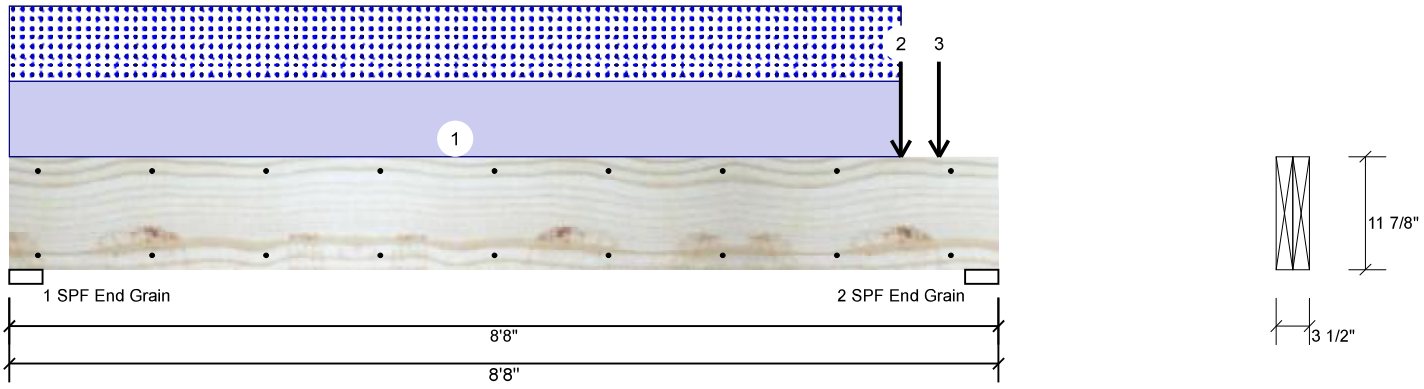
Metsä Wood
301 Merritt 7 Building, 2nd Floor
Norwalk, CT 06851
(800) 622-5850
www.metsawood.com/us

Comtech, Inc.
1001 S. Reilly Road, Suite #639
Fayetteville, NC
USA
28314
910-864-TRUS

Client:	Precision Custom Homes	Date:	8/5/2022
Project:	Sarah 3.0	Input by:	David Landry
Address:	72 Edes Court Cameron, NC 28396	Job Name:	Lot 15 Liberty Meadows
		Project #:	J0722-3745

BM2 Kerto-S LVL 1.750" X 11.875" 2-Ply - PASSED

Level: Level



Member Information

Type:	Header	Application:	Floor
Plies:	2	Design Method:	ASD
Moisture Condition:	Dry	Building Code:	IBC 2012
Deflection LL:	360	Load Sharing:	No
Deflection TL:	240	Header Supports Glass:	No
Importance:	Normal - II	Deck:	Not Checked
Temperature:	Temp <= 100°F		

Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	0	2091	2042	0	0
2	Vertical	0	5243	4972	0	0

Bearings

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.500"	Vert	40%	2091 / 2042	4133	L	D+S
2 - SPF End Grain	3.500"	Vert	99%	5243 / 4972	10215	L	D+S

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	9474 ft-lb	5' 3/8"	22897 ft-lb	0.414 (41%)	D+S	L
Unbraced	9474 ft-lb	5' 3/8"	22897 ft-lb	0.414 (41%)	D+S	L
Shear	6365 lb	7'4 5/8"	10197 lb	0.624 (62%)	D+S	L
LL Defl inch	0.073 (L/1357)	4'6 13/16"	0.274 (L/360)	0.265 (27%)	S	L
TL Defl inch	0.147 (L/670)	4'6 13/16"	0.410 (L/240)	0.358 (36%)	D+S	L

Design Notes

1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
2 Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
3 Refer to last page of calculations for fasteners required for specified loads.
4 Girders are designed to be supported on the bottom edge only.
5 Top loads must be supported equally by all plies.
6 Top must be continuously laterally braced.
7 Bottom must be laterally braced at bearings.
8 Lateral slenderness ratio based on single ply width.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Part. Uniform	0-0-0 to 7-9-12		Top	406 PLF	0 PLF	406 PLF	0 PLF	0 PLF	B2
2	Point	7-9-12		Top	3842 lb	0 lb	3842 lb	0 lb	0 lb	B2-GR
	Bearing Length	0-3-8								
3	Point	8-1-12		Top	240 lb	0 lb	0 lb	0 lb	0 lb	Wall Above
	Bearing Length	0-3-8								
	Self Weight				9 PLF					

Notes

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Lumber

1. Dry service conditions, unless noted otherwise
2. LVL not to be treated with fire retardant or corrosive chemicals

Handling & Installation

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation
6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

Manufacturer Info

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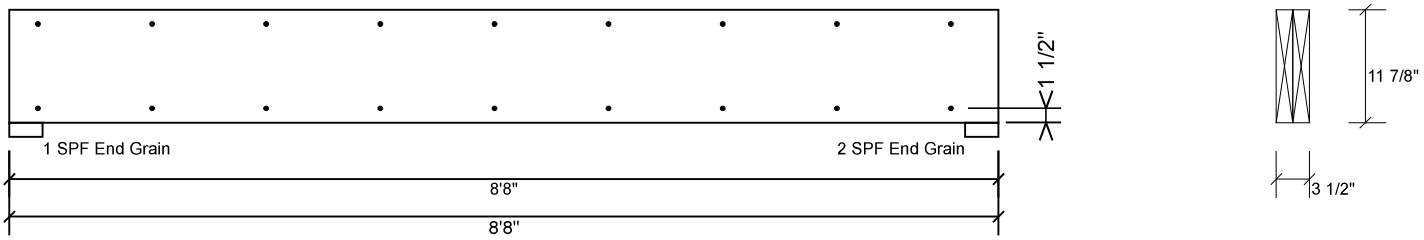
Client:	Precision Custom Homes	Date:	8/5/2022
Project:	Sarah 3.0	Input by:	David Landry
Address:	72 Edes Court Cameron, NC 28396	Job Name:	Lot 15 Liberty Meadows
		Project #:	J0722-3745

BM2 Kerto-S LVL 1.750" X 11.875" 2-Ply - PASSED

Level: Level



Multi-Ply Analysis

Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6".

Capacity	0.0 %
Load	0.0 PLF
Yield Limit per Foot	163.7 PLF
Yield Limit per Fastener	81.9 lb.
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	
Duration Factor	1.00

Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

1. Dry service conditions, unless noted otherwise
2. LVL not to be treated with fire retardant or corrosive chemicals

Handling & Installation

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation
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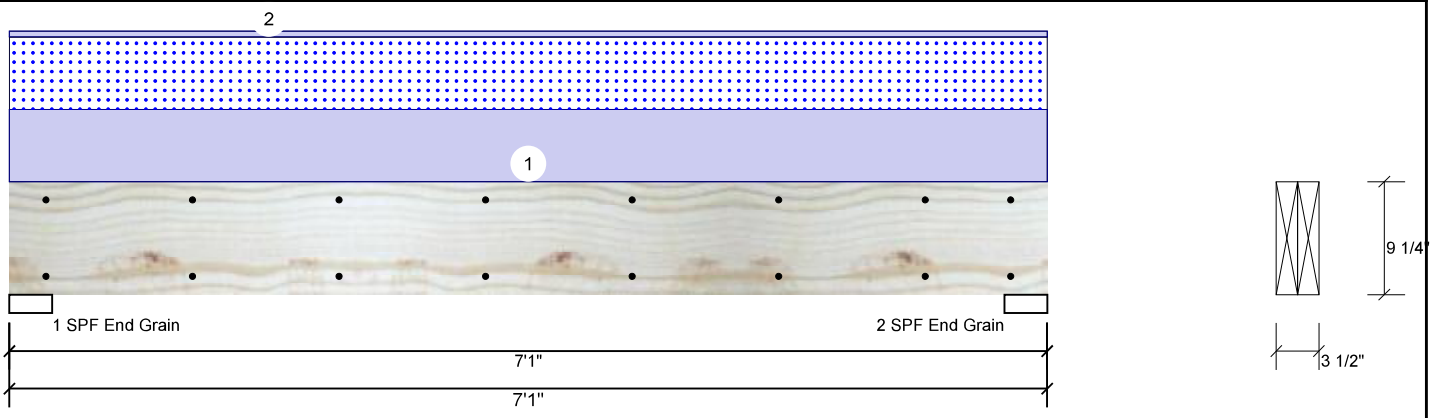
Project:	Sarah 3.0	Input by:	David Landry
Address:	72 Edes Court Cameron, NC 28396	Job Name:	Lot 15 Liberty Meadows
		Project #:	J0722-3745

BM3 Kerto-S LVL 1.750" X 9.250" 2-Ply - PASSED

Level: Level



Member Information

Type:	Girder	Application:	Floor
Plies:	2	Design Method:	ASD
Moisture Condition:	Dry	Building Code:	IBC 2012
Deflection LL:	360	Load Sharing:	No
Deflection TL:	240	Deck:	Not Checked
Importance:	Normal - II		
Temperature:	Temp <= 100°F		

Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	0	2150	1966	0	0
2	Vertical	0	2150	1966	0	0

Bearings

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.500"	Vert	40%	2150 / 1966	4116	L	D+S
2 - SPF End Grain	3.500"	Vert	40%	2150 / 1966	4116	L	D+S

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	6376 ft-lb	3'6 1/2"	14423 ft-lb	0.442 (44%)	D+S	L
Unbraced	6376 ft-lb	3'6 1/2"	9973 ft-lb	0.639 (64%)	D+S	L
Shear	2887 lb	1' 3/4"	7943 lb	0.363 (36%)	D+S	L
LL Defl inch	0.063 (L/1263)	3'6 1/2"	0.221 (L/360)	0.285 (29%)	S	L
TL Defl inch	0.132 (L/603)	3'6 1/2"	0.331 (L/240)	0.398 (40%)	D+S	L

Design Notes

1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
2 Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
3 Refer to last page of calculations for fasteners required for specified loads.
4 Girders are designed to be supported on the bottom edge only.
5 Top loads must be supported equally by all plies.
6 Top must be laterally braced at end bearings.
7 Bottom must be laterally braced at end bearings.
8 Lateral slenderness ratio based on single ply width.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Uniform			Top	555 PLF	0 PLF	555 PLF	0 PLF	0 PLF	A1
2	Uniform			Top	45 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall Above
	Self Weight				7 PLF					

Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

1. Dry service conditions, unless noted otherwise
2. LVL not to be treated with fire retardant or corrosive chemicals

Handling & Installation

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
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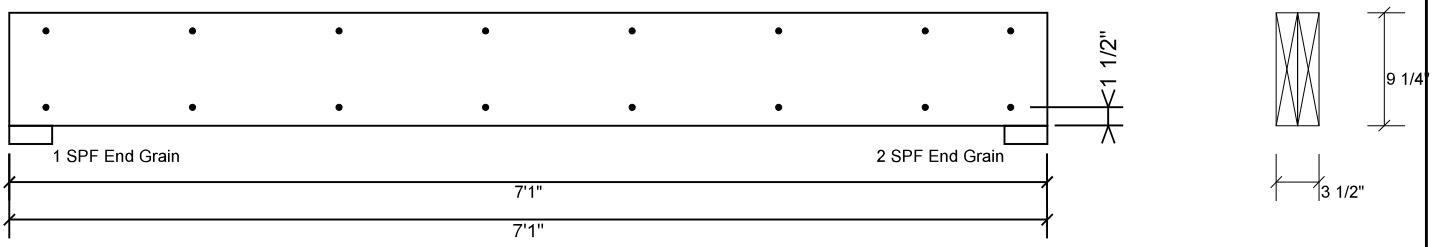
Project:	Sarah 3.0	Input by:	David Landry
Address:	72 Edes Court Cameron, NC 28396	Job Name:	Lot 15 Liberty Meadows
		Project #:	J0722-3745

BM3 Kerto-S LVL 1.750" X 9.250" 2-Ply - PASSED

Level: Level



Multi-Ply Analysis

Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6".

Capacity	0.0 %
Load	0.0 PLF
Yield Limit per Foot	163.7 PLF
Yield Limit per Fastener	81.9 lb.
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	
Duration Factor	1.00

Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

1. Dry service conditions, unless noted otherwise
2. LVL not to be treated with fire retardant or corrosive chemicals

Handling & Installation

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
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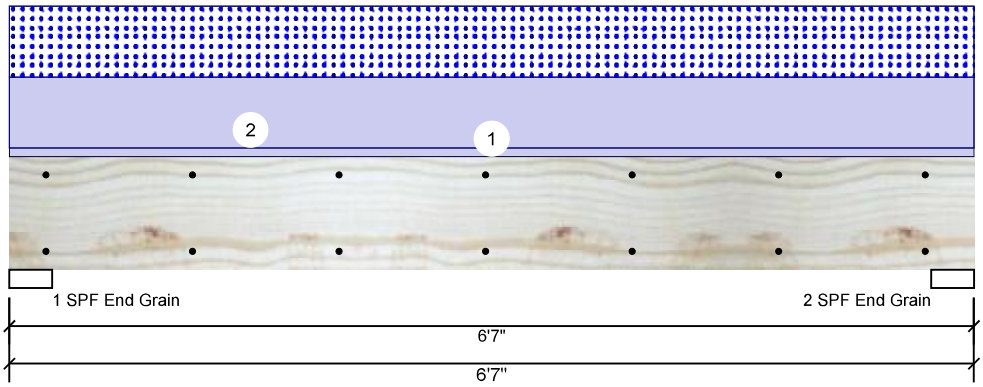
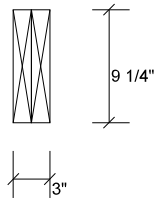
Address:	72 Edes Court Cameron, NC 28396	Job Name:	Lot 15 Liberty Meadows
		Project #:	J0722-3745

BM4 S-P-F #2 2.000" X 10.000" 2-Ply - PASSED

Level: Level





Member Information

Type:	Header	Application:	Floor
Plies:	2	Design Method:	ASD
Moisture Condition:	Dry	Building Code:	IBC 2012
Deflection LL:	480	Load Sharing:	No
Deflection TL:	360	Header Supports Glass:	No
Importance:	Normal - II	Deck:	Not Checked
Temperature:	Temp <= 100°F		

Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	0	1353	1205	0	0
2	Vertical	0	1353	1205	0	0

Bearings

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.500"	Vert	57%	1353 / 1205	2558	L	D+S
2 - SPF End Grain	3.500"	Vert	57%	1353 / 1205	2558	L	D+S

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	3644 ft-lb	3'3 1/2"	3946 ft-lb	0.923 (92%)	D+S	L
Unbraced	3644 ft-lb	3'3 1/2"	3946 ft-lb	0.923 (92%)	D+S	L
Shear	1732 lb	1' 3/4"	2872 lb	0.603 (60%)	D+S	L
LL Defl inch	0.042 (L/1757)	3'3 1/2"	0.153 (L/480)	0.273 (27%)	S	L
TL Defl inch	0.089 (L/827)	3'3 1/2"	0.204 (L/360)	0.435 (44%)	D+S	L

Design Notes

1. Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
2. Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
3. Refer to last page of calculations for fasteners required for specified loads.
4. Girders are designed to be supported on the bottom edge only.
5. Top loads must be supported equally by all plies.
6. Top must be continuously laterally braced.
7. Bottom must be laterally braced at bearings.
8. Lateral slenderness ratio based on single ply width.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Uniform			Top	45 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall Above
2	Uniform			Top	366 PLF	0 PLF	366 PLF	0 PLF	0 PLF	A1

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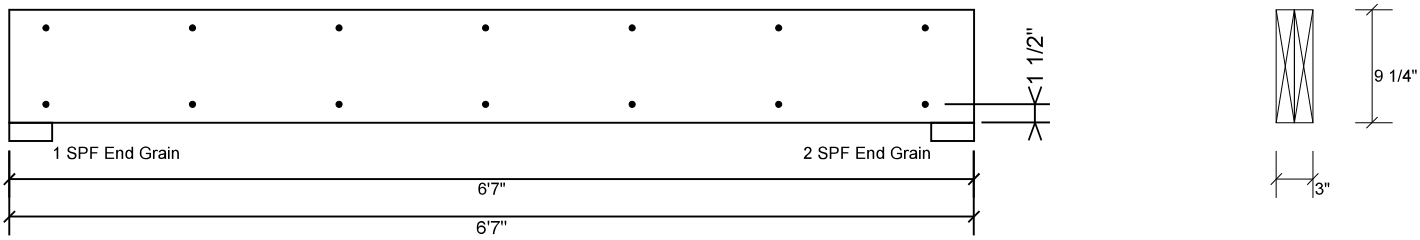
Address:	72 Edes Court Cameron, NC 28396	Job Name:	Lot 15 Liberty Meadows
		Project #:	J0722-3745

BM4 S-P-F #2 2.000" X 10.000" 2-Ply - PASSED

Level: Level



Multi-Ply Analysis

Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6".

Capacity	0.0 %
Load	0.0 PLF
Yield Limit per Foot	157.4 PLF
Yield Limit per Fastener	78.7 lb.
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	
Duration Factor	1.00

This design is valid until 11/3/2024

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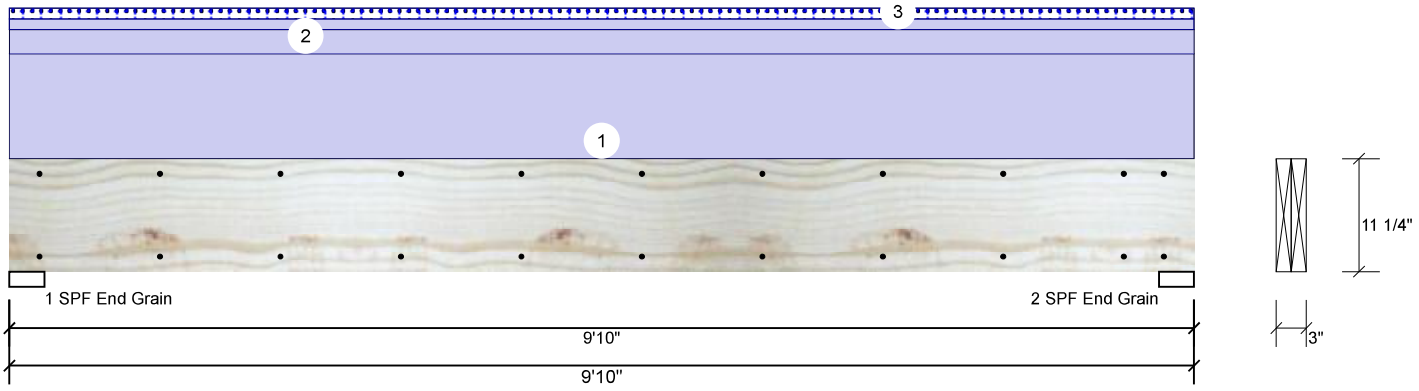
Address:	72 Edes Court Cameron, NC 28396	Job Name:	Lot 15 Liberty Meadows
		Project #:	J0722-3745

GDH S-P-F #2 2.000" X 12.000" 2-Ply - PASSED

Level: Level



Member Information

Type:	Header	Application:	Floor
Plies:	2	Design Method:	ASD
Moisture Condition:	Dry	Building Code:	IBC 2012
Deflection LL:	360	Load Sharing:	No
Deflection TL:	240	Header Supports Glass:	No
Importance:	Normal - II	Deck:	Not Checked
Temperature:	Temp <= 100°F		

Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	0	1278	98	0	0
2	Vertical	0	1278	98	0	0

Bearings

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.500"	Vert	31%	1278 / 98	1377	L	D+S
2 - SPF End Grain	3.500"	Vert	31%	1278 / 98	1377	L	D+S

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	2856 ft-lb	4'11"	4153 ft-lb	0.688 (69%)	D	Uniform
Unbraced	2856 ft-lb	4'11"	4153 ft-lb	0.688 (69%)	D	Uniform
Shear	959 lb	1'2 3/4"	2734 lb	0.351 (35%)	D	Uniform
LL Defl inch	0.007 (L/16128)	4'11"	0.312 (L/360)	0.022 (2%)	S	L
TL Defl inch	0.098 (L/1152)	4'11"	0.469 (L/240)	0.208 (21%)	D+S	L

Design Notes

1. Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
2. Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
3. Refer to last page of calculations for fasteners required for specified loads.
4. Girders are designed to be supported on the bottom edge only.
5. Top loads must be supported equally by all plies.
6. Top must be continuously laterally braced.
7. Bottom must be laterally braced at bearings.
8. Lateral slenderness ratio based on single ply width.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Uniform			Top	195 PLF	0 PLF	0 PLF	0 PLF	0 PLF	B1GE
2	Uniform			Top	45 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall Above
3	Tie-In	0-0-0 to 9-10-0	1-0-0	Top	20 PSF	0 PSF	20 PSF	0 PSF	0 PSF	Roof Load

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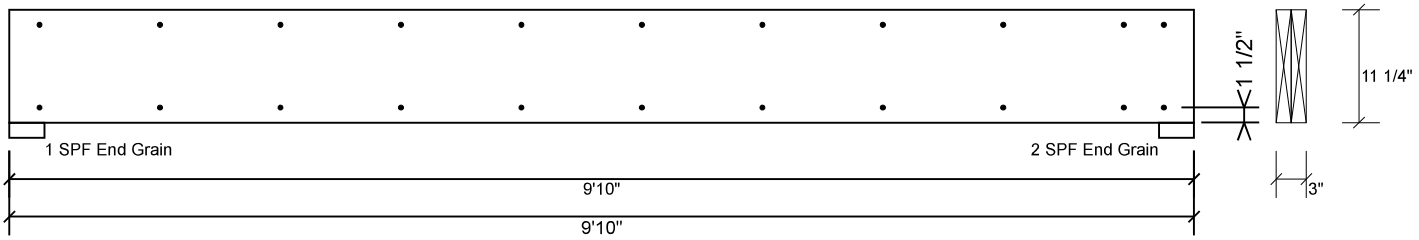
		Project #:	J0722-3745

GDH S-P-F #2 2.000" X 12.000" 2-Ply - PASSED

Level: Level



Multi-Ply Analysis

Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6".

Capacity	0.0 %
Load	0.0 PLF
Yield Limit per Foot	157.4 PLF
Yield Limit per Fastener	78.7 lb.
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	
Duration Factor	1.00

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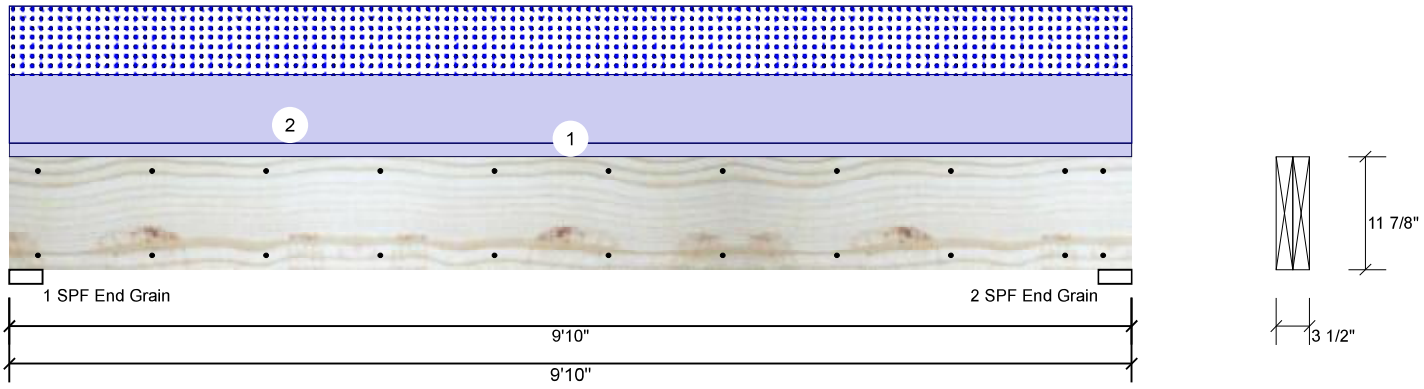
Project:	Sarah 3.0	Input by:	David Landry
Address:	72 Edes Court Cameron, NC 28396	Job Name:	Lot 15 Liberty Meadows
		Project #:	J0722-3745

GDH2 Kerto-S LVL 1.750" X 11.875" 2-Ply - PASSED

Level: Level



Member Information

Type:	Header	Application:	Floor
Plies:	2	Design Method:	ASD
Moisture Condition:	Dry	Building Code:	IBC 2012
Deflection LL:	360	Load Sharing:	No
Deflection TL:	240	Header Supports Glass:	No
Importance:	Normal - II	Deck:	Not Checked
Temperature:	Temp <= 100°F		

Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	0	1378	1111	0	0
2	Vertical	0	1378	1111	0	0

Bearings

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.500"	Vert	24%	1378 / 1111	2489	L	D+S
2 - SPF End Grain	3.500"	Vert	24%	1378 / 1111	2489	L	D+S

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	5562 ft-lb	4'11"	22897 ft-lb	0.243 (24%)	D+S	L
Unbraced	5562 ft-lb	4'11"	22897 ft-lb	0.243 (24%)	D+S	L
Shear	1850 lb	1'3 3/8"	10197 lb	0.181 (18%)	D+S	L
LL Defl inch	0.047 (L/2389)	4'11"	0.312 (L/360)	0.151 (15%)	S	L
TL Defl inch	0.105 (L/1066)	4'11"	0.469 (L/240)	0.225 (23%)	D+S	L

Design Notes

1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
2 Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
3 Refer to last page of calculations for fasteners required for specified loads.
4 Girders are designed to be supported on the bottom edge only.
5 Top loads must be supported equally by all plies.
6 Top must be continuously laterally braced.
7 Bottom must be laterally braced at bearings.
8 Lateral slenderness ratio based on single ply width.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Uniform			Top	45 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall Above
2	Uniform			Top	226 PLF	0 PLF	226 PLF	0 PLF	0 PLF	C1
	Self Weight				9 PLF					

Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

1. Dry service conditions, unless noted otherwise
2. LVL not to be treated with fire retardant or corrosive chemicals

Handling & Installation

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation
6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

Manufacturer Info

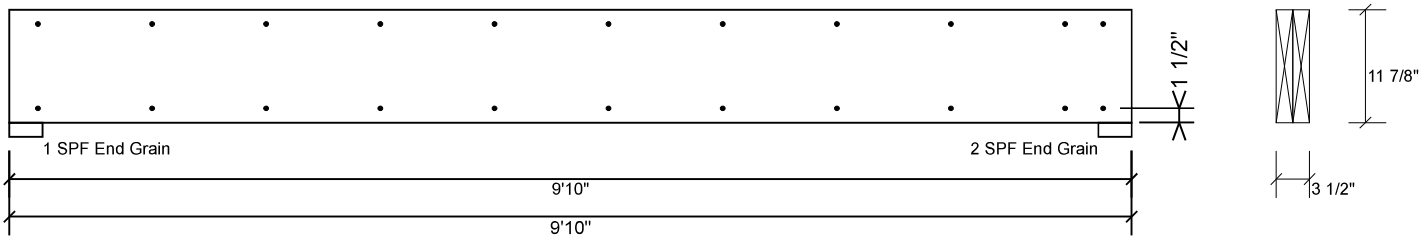
Metsä Wood
301 Merritt 7 Building, 2nd Floor
Norwalk, CT 06851
(800) 622-5850
www.metsawood.com/us

Comtech, Inc.
1001 S. Reilly Road, Suite #639
Fayetteville, NC
USA
28314
910-864-TRUS

Client:	Precision Custom Homes	Date:	8/5/2022
Project:	Sarah 3.0	Input by:	David Landry
Address:	72 Edes Court Cameron, NC 28396	Job Name:	Lot 15 Liberty Meadows
		Project #:	J0722-3745

GDH2 Kerto-S LVL 1.750" X 11.875" 2-Ply - PASSED

Level: Level



Multi-Ply Analysis

Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6".

Capacity	0.0 %
Load	0.0 PLF
Yield Limit per Foot	163.7 PLF
Yield Limit per Fastener	81.9 lb.
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	
Duration Factor	1.00

Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

1. Dry service conditions, unless noted otherwise
2. LVL not to be treated with fire retardant or corrosive chemicals

Handling & Installation

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation
6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

Manufacturer Info

Metsä Wood
301 Merritt 7 Building, 2nd Floor
Norwalk, CT 06851
(800) 622-5850
www.metsawood.com/us

Comtech, Inc.
1001 S. Reilly Road, Suite #639
Fayetteville, NC
USA
28314
910-864-TRUS

RE: J0722-3745
Lot 15 Liberty Meadow

Trenco
818 Soundside Rd
Edenton, NC 27932

Site Information:

Customer: Precision Custom Homes
Project Name: J0722-3745
Lot/Block: 15
Model: Sarah 3.0
Address: 42 Edes Court
Subdivision: Liberty Meadow
City: Cameron
State: NC

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

Design Code: IRC2015/TPI2014
Design Program: MiTek 20/20 8.4
Wind Code: N/A
Wind Speed: N/A mph
Roof Load: N/A psf
Floor Load: 55.0 psf

This package includes 13 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date
1	E16495391	ET1	12/22/2021
2	E16495392	F1	12/22/2021
3	E16495393	F1A	12/22/2021
4	E16495394	F2	12/22/2021
5	E16495395	F2A	12/22/2021
6	E16495396	F3	12/22/2021
7	E16495397	F4	12/22/2021
8	E16495398	F5	12/22/2021
9	E16495399	F5A	12/22/2021
10	E16495400	F6	12/22/2021
11	E16495401	F6A	12/22/2021
12	E16495402	FG1	12/22/2021
13	E16495403	FG2	12/22/2021

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

Truss Design Engineer's Name: Gilbert, Eric
My license renewal date for the state of North Carolina is December 31, 2022.
North Carolina COA: C-0844

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 TRENCO. Any project specific information included is for TRENCO customers file reference purpose only, and was not taken into account in the preparation of these designs. 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.

December 22, 2021
Gilbert, Eric

Job	Truss	Truss Type	Qty	Ply	Lot 15 Liberty Meadow
J0722-3745	ET1	GABLE	1	1	E16495391
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 22 10:34:41 2021 Page 1
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0-1-8

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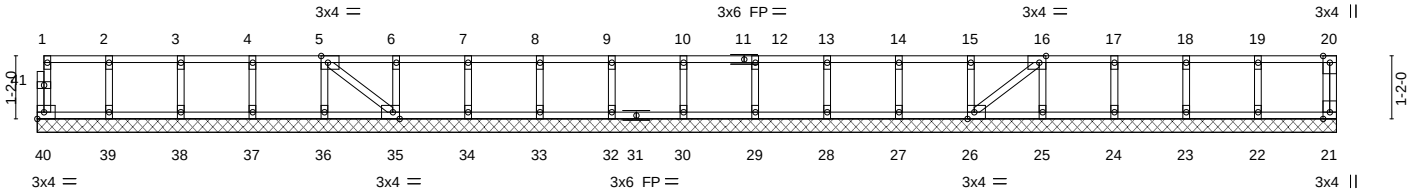

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0	13-4-0	14-8-0	16-0-0	17-4-0	18-8-0	20-0-0	21-4-0	22-8-0	24-1-8
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-5-8

Plate Offsets (X,Y)-- [5:0-1-8,Edge], [16:0-1-8,Edge], [26:0-1-8,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	0.07	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	21	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 104 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 6-0-0 oc bracing.

REACTIONS. All bearings 24-1-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 40, 21, 39, 38, 37, 36, 35, 34, 33, 32, 30, 29, 28, 27, 26, 25, 24, 23, 22

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.
7) CAUTION, Do not erect truss backwards.

December 22,2021

TRENCO
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 15 Liberty Meadow
J0722-3745	F1	Floor	4	1	E16495392
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 22 10:34:43 2021 Page 1
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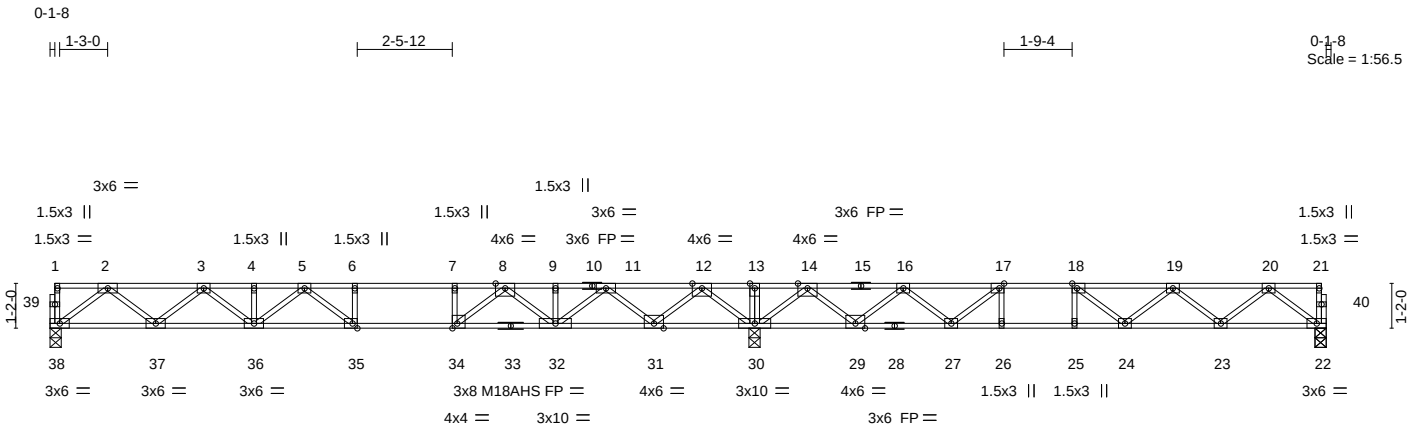

18-4-4 | 33-3-0
18-4-4 | 14-10-12

Plate Offsets (X,Y)-- [17:0-1-8,Edge], [18:0-1-8,Edge], [34:0-1-8,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	0.75	Vert(LL)	-0.28	35-36	>781	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	1.00	Vert(CT)	-0.38	35-36	>569	360	M18AHS	186/179
BCLL	0.0	Rep Stress Incr	YES	WB	0.65	Horz(CT)	0.06	22	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 165 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.1(flat) *Except* 1-10: 2x4 SP 2400F 2.0E(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. All bearings 0-3-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) except 38=883(LC 2), 22=704(LC 3), 22=616(LC 1), 30=2159(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1837/0, 3-4=-3015/0, 4-5=-3015/0, 5-6=-3339/0, 6-7=-3339/0, 7-8=-3339/0, 8-9=-2150/65, 9-11=-2150/65, 11-12=-437/652, 12-13=0/2659, 13-14=0/2659, 14-16=-460/1167, 16-17=-1629/577, 17-18=-2135/207, 18-19=-2064/0, 19-20=-1397/0
BOT CHORD 37-38=0/1103, 36-37=0/2546, 35-36=0/3310, 34-35=0/3339, 32-34=0/2736, 31-32=-340/1403, 30-31=-1304/0, 29-30=-1527/0, 27-29=-859/1191, 26-27=-207/2135, 25-26=-207/2135, 24-25=-207/2135, 23-24=0/1907, 22-23=0/860
WEBS 2-38=-1381/0, 2-37=0/955, 3-37=-924/0, 3-36=0/598, 5-36=-377/0, 5-35=-369/289, 12-30=-1799/0, 20-22=-1075/0, 20-23=0/700, 19-23=-664/0, 14-30=-1546/0, 14-29=0/1128, 16-29=-1076/0, 16-27=0/726, 12-31=0/1369, 11-31=-1318/0, 11-32=0/1018, 8-32=-816/0, 8-34=0/1106, 7-34=-524/0, 17-27=-958/0, 17-26=0/322, 18-24=-90/366, 18-25=-294/0

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 3x4 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.
6) CAUTION, Do not erect truss backwards.

December 22,2021

TRENCO
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 15 Liberty Meadow
J0722-3745	F1A	Floor	1	1	E16495393
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 22 10:34:44 2021 Page 1
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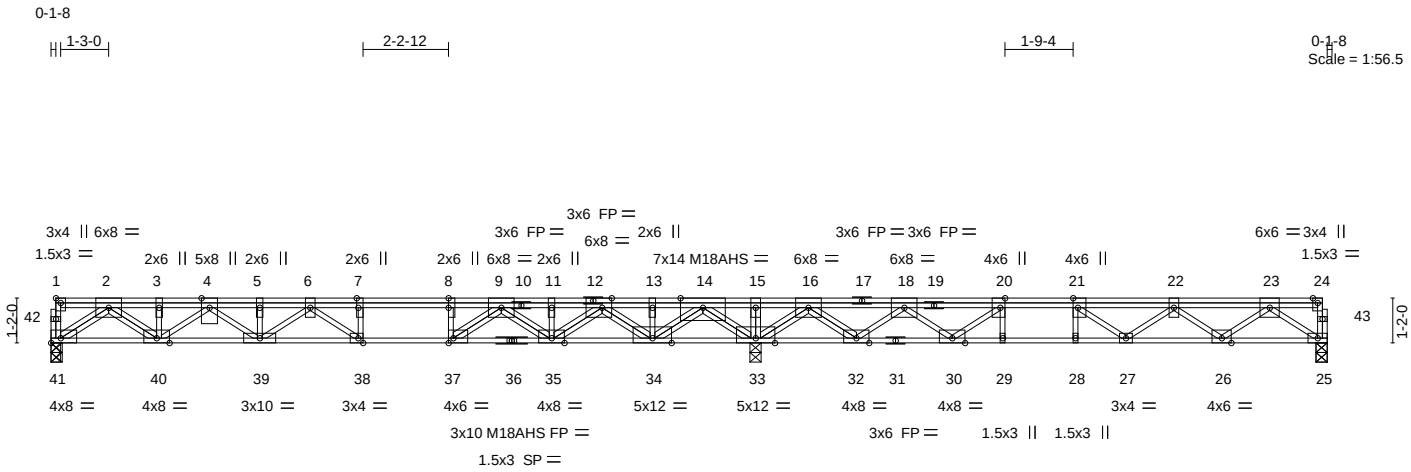

18-4-4 33-3-0
18-4-4 14-10-12

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [7:0-3-0,Edge], [8:0-3-0,0-0-0], [12:0-3-0,Edge], [20:0-3-0,Edge], [21:0-3-0,Edge], [37:0-1-8,Edge], [38:0-1-8,Edge], [41:Edge,0-1-8]

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	0.98	Vert(LL)	-0.19	38	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.91	Vert(CT)	-0.50	38-39	>440	360	M18AHS	186/179
BCLL	0.0	Rep Stress Incr	NO	WB	0.88	Horz(CT)	0.08	25	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 234 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-10-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 33-34,32-33,30-32.

REACTIONS. All bearings 0-3-8 except (jt=length) 41=0-3-0, 41=0-3-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) except 41=1742(LC 2), 41=1695(LC 1), 25=1315(LC 3), 25=1207(LC 1), 33=4660(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3918/0, 3-4=-3939/0, 4-5=-6200/0, 5-6=-6200/0, 6-7=-6452/0, 7-8=-6452/0, 8-9=-6452/0, 9-11=-3582/0, 11-12=-3582/0, 12-13=0/1512, 13-14=0/1512, 14-15=0/7049, 15-16=0/7049, 16-18=0/2860, 18-20=-2141/306, 20-21=-3554/0, 21-22=-3682/0, 22-23=-2673/0
BOT CHORD 40-41=0/2233, 39-40=0/5244, 38-39=0/6694, 37-38=0/6452, 35-37=0/4888, 34-35=0/2068, 33-34=-3873/0, 32-33=-4251/0, 30-32=-1424/888, 29-30=0/3554, 28-29=0/3554, 27-28=0/3554, 26-27=0/3655, 25-26=0/1671
WEBS 2-41=-2731/0, 2-40=0/2138, 3-40=-363/0, 4-40=-1603/0, 4-39=0/1192, 5-39=-285/0, 6-39=-617/0, 6-38=-762/0, 7-38=-23/365, 14-33=-3899/0, 14-34=0/3358, 13-34=-340/0, 12-34=-3062/0, 12-35=0/2105, 11-35=-410/0, 9-35=-1704/0, 9-37=0/2330, 8-37=-1254/0, 23-25=-2043/0, 23-26=0/1274, 22-26=-1247/0, 22-27=-360/34, 18-32=-2518/0, 18-30=0/1840, 20-30=-2105/0, 21-27=0/650, 21-28=-277/0, 20-29=0/301, 15-33=-351/0, 16-33=-3476/0, 16-32=0/2432

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 3x6 MT20 unless otherwise indicated.
4) The Fabrication Tolerance at joint 36 = 11%
5) Plates checked for a plus or minus 1 degree rotation about its center.
6) Non Standard bearing condition. Review required.
7) Load case(s) 1, 2, 3, 4, 5, 6, 7 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
8) 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.
9) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00

December 22,2021

Continued on page 2

TRENCO
818 Soundside Road
Edenton, NC 27932

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 1-24=-220, 25-41=-10

2) 1st Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 1-15=-220, 15-24=-140, 25-41=-10

3) 2nd Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 1-15=-140, 15-24=-220, 25-41=-10

4) 1st chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 1-8=-220, 8-15=-140, 15-24=-220, 25-41=-10

5) 2nd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 1-7=-140, 7-24=-220, 25-41=-10

6) 3rd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 1-21=-220, 21-24=-140, 25-41=-10

7) 4th chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 1-15=-220, 15-20=-140, 20-24=-220, 25-41=-10

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 15 Liberty Meadow
J0722-3745	F2	FLOOR	3	1	E16495394
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 22 10:34:45 2021 Page 1
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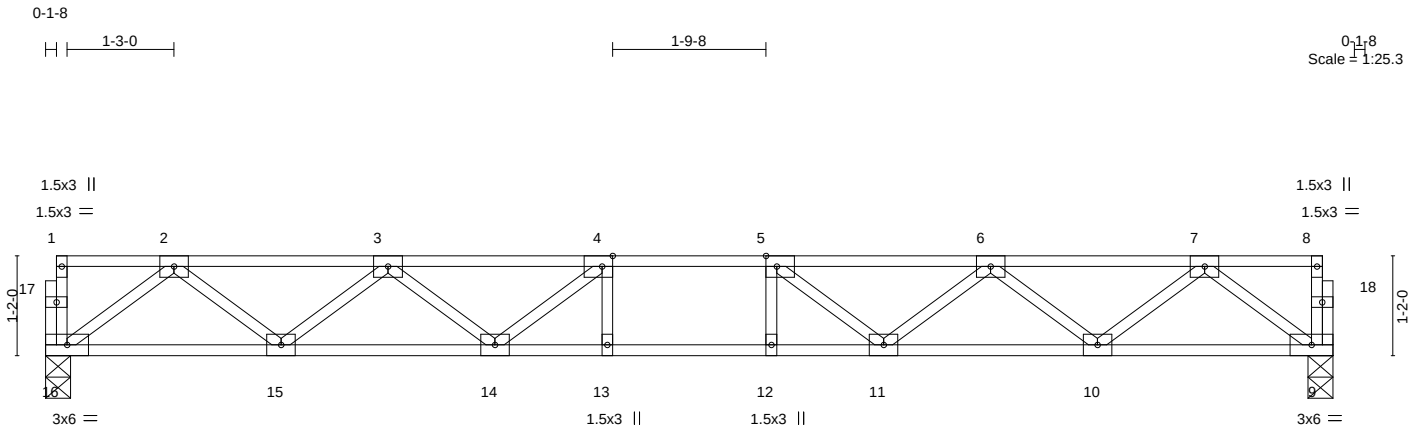

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge]

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	0.34	Vert(LL)	-0.15	12-13	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.72	Vert(CT)	-0.20	12-13	>886	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.41	Horz(CT)	0.04	9	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 75 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) 16=0-3-8, 9=0-3-8
Max Grav 16=807(LC 1), 9=807(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1656/0, 3-4=-2575/0, 4-5=-2865/0, 5-6=-2575/0, 6-7=-1656/0
BOT CHORD 15-16=0/1000, 14-15=0/2277, 13-14=0/2865, 12-13=0/2865, 11-12=0/2865, 10-11=0/2277, 9-10=0/1000
WEBS 2-16=-1252/0, 2-15=0/853, 3-15=-809/0, 3-14=0/447, 4-14=-545/0, 7-9=-1252/0, 7-10=0/853, 6-10=-809/0, 6-11=0/447, 5-11=-545/0

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) 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.

December 22,2021

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 15 Liberty Meadow E16495395
J0722-3745	F2A	FLOOR GIRDER	1	1	Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 22 10:34:46 2021 Page 1
ID:oZsdJhAH7sgso7cS4ggLwVyqezV-7rC?uCTr4kOxSCnEtlSl0mjjObHsNbS9b?KNtAy6RTN

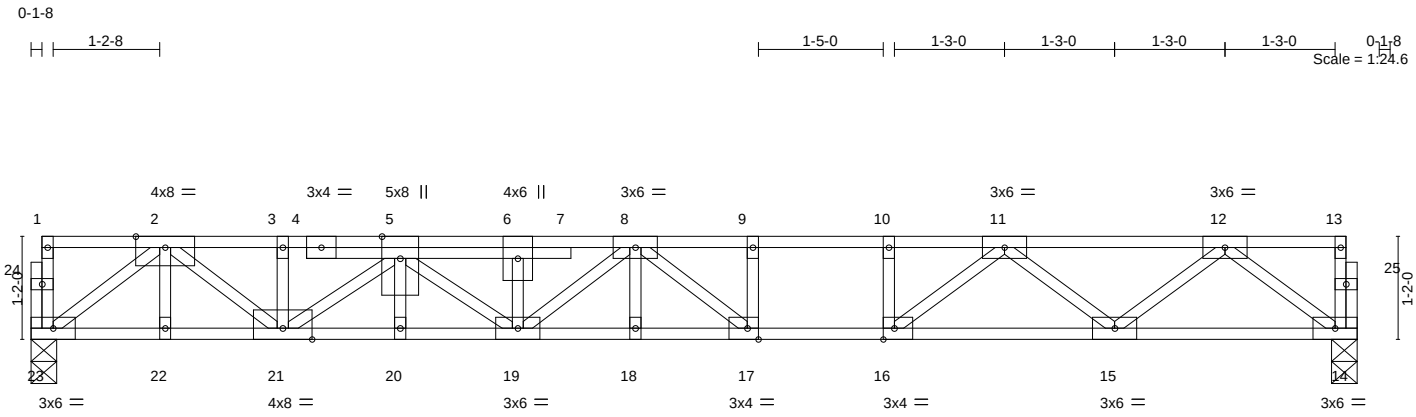

Plate Offsets (X,Y)-- [16:0-1-8,Edge], [17:0-1-8,Edge]

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	0.70	Vert(LL)	-0.19	17-18	>912	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.75	Vert(CT)	-0.27	17-18	>658	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.60	Horz(CT)	0.04	14	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 85 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.1(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.

REACTIONS. (size) 14=0-3-8, 23=0-3-8
Max Grav 14=882(LC 1), 23=1005(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2255/0, 3-5=-2259/0, 5-6=-3456/0, 6-8=-3456/0, 8-9=-3166/0, 9-10=-3166/0, 10-11=-3166/0, 11-12=-1814/0
BOT CHORD 22-23=0/1266, 21-22=0/1266, 20-21=0/3230, 19-20=0/3230, 18-19=0/3473, 17-18=0/3473, 16-17=0/3166, 15-16=0/2550, 14-15=0/1100
WEBS 12-14=-1377/0, 12-15=0/930, 11-15=-958/0, 11-16=0/920, 10-16=-343/0, 2-23=-1575/0, 2-21=0/1255, 5-21=-1210/0, 5-19=0/281, 8-17=-600/0

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.
5) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 353 lb down at 4-4-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.
6) 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
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 14-23=-10, 1-13=-100
Concentrated Loads (lb)
Vert: 5=-273(F)

December 22,2021

TRENCO
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 15 Liberty Meadow
J0722-3745	F3	Floor	1	1	E16495396
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 22 10:34:46 2021 Page 1
ID:oZsdJhAH7sgso7cS4ggLwVyqezV-7rC?uCTr4kOxSCnEtlSl0mjj5bJ3Nfv9b?KNtAy6RTN

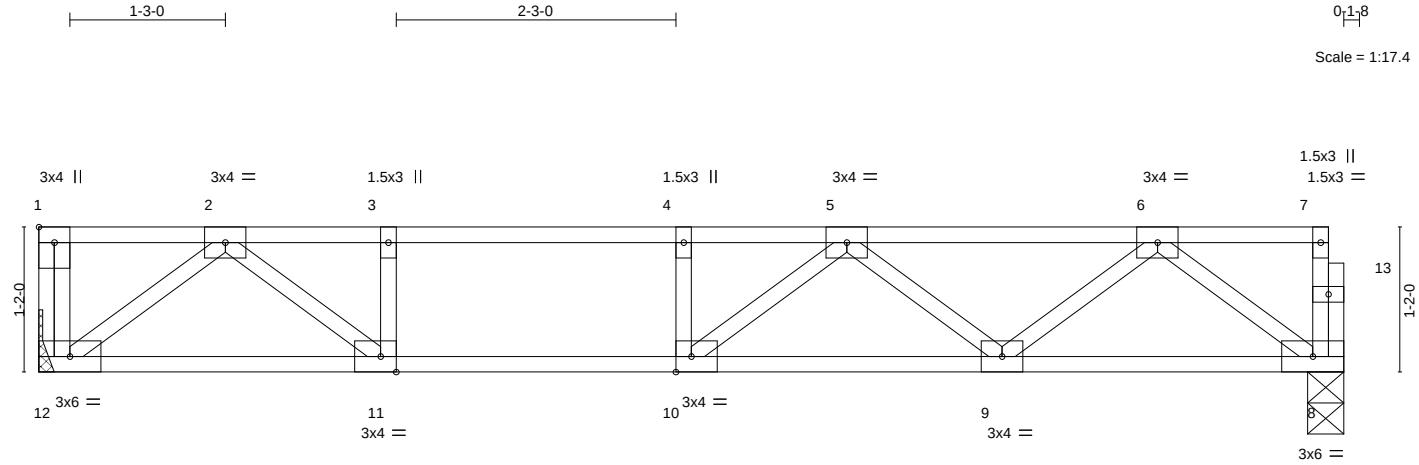

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [10:0-1-8,Edge], [11:0-1-8,Edge]

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	0.66	Vert(LL)	-0.14	9-10	>904	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.61	Vert(CT)	-0.18	9-10	>684	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.38	Horz(CT)	0.01	8	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 53 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) 12=Mechanical, 8=0-3-8
Max Grav 12=564(LC 1), 8=558(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1261/0, 3-4=-1261/0, 4-5=-1261/0, 5-6=-1043/0
BOT CHORD 11-12=0/656, 10-11=0/1261, 9-10=0/1325, 8-9=0/682
WEBS 2-12=-822/0, 2-11=0/791, 6-8=-852/0, 6-9=0/471, 5-9=-367/0, 3-11=-377/0

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) Refer to girder(s) for truss to truss connections.
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.
5) CAUTION, Do not erect truss backwards.

December 22,2021

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 15 Liberty Meadow
J0722-3745	F4	FLOOR	5	1	E16495397
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 22 10:34:47 2021 Page 1
ID:oZsdJhAH7sgso7cS4ggLwVyqezV-b2mN6YUUr1Wo4MMRRTz_Z_Gx8_dH65_Jpf3xQcy6RTM

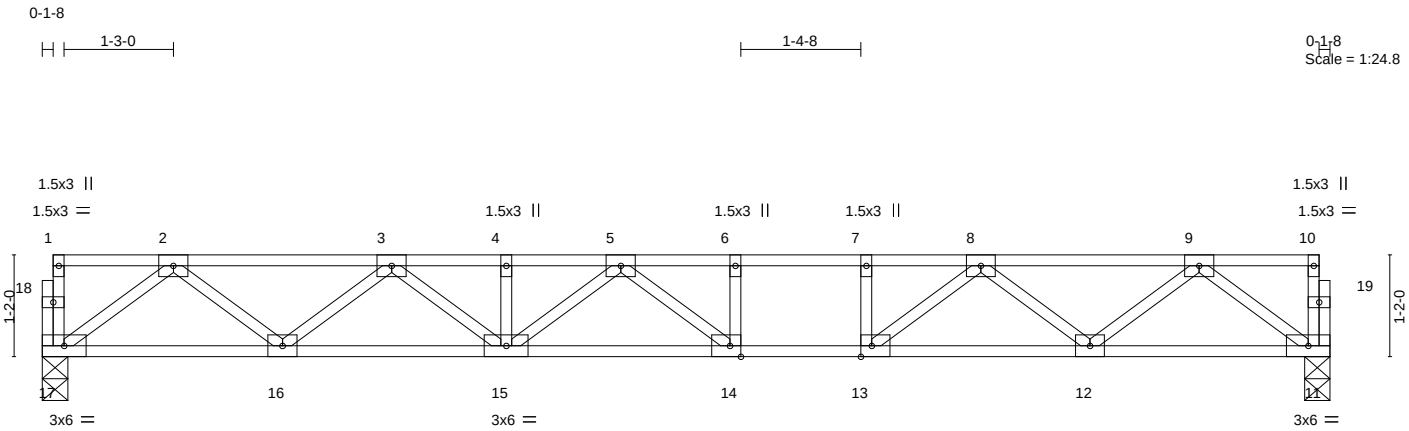

Plate Offsets (X,Y)-- [13:0-1-8,Edge], [14:0-1-8,Edge]

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	0.51	Vert(LL)	-0.17	14-15	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.73	Vert(CT)	-0.24	14-15	>732	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: 76 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) 17=0-3-8, 11=0-3-8
Max Grav 17=791(LC 1), 11=791(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1607/0, 3-4=-2556/0, 4-5=-2556/0, 5-6=-2657/0, 6-7=-2657/0, 7-8=-2657/0, 8-9=-1596/0
BOT CHORD 16-17=0/983, 15-16=0/2207, 14-15=0/2744, 13-14=0/2657, 12-13=0/2204, 11-12=0/984
WEBS 2-17=-1230/0, 2-16=0/813, 3-16=-780/0, 3-15=0/446, 5-15=-253/0, 5-14=-298/246, 9-11=-1232/0, 9-12=0/797, 8-12=-791/0, 8-13=0/722, 7-13=-312/0

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) 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.

December 22,2021

TRENCO
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 15 Liberty Meadow
J0722-3745	F5	Floor	3	1	E16495398
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 22 10:34:48 2021 Page 1
ID:oZsdJhAH7sgso7cS4ggLwVyqezV-3EKlJuV6cLefiWxd?AVD5Bo2pOvjrVtS2JpUy2y6RTL

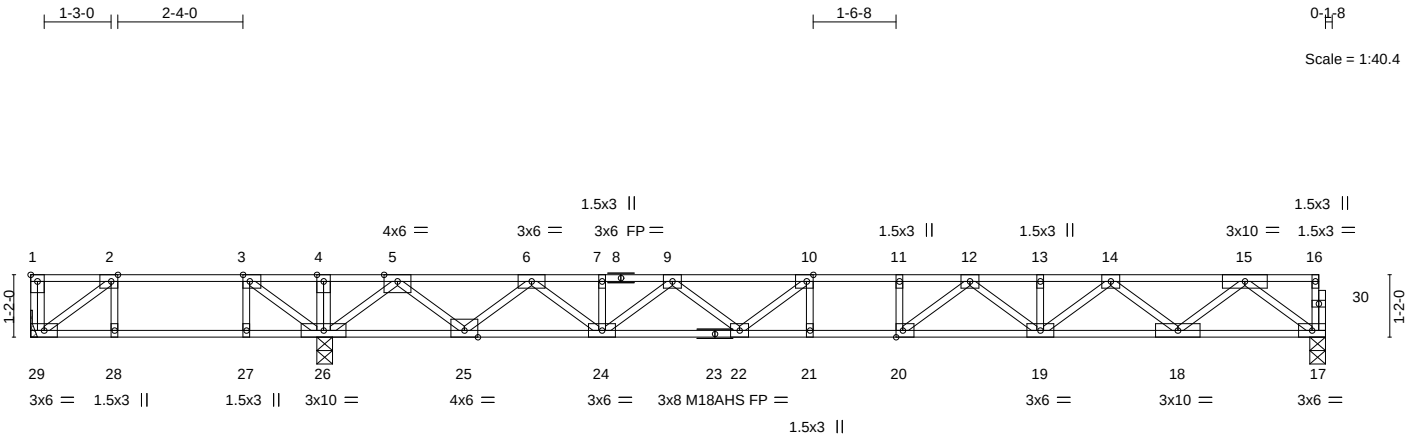

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [2:0-1-8,Edge], [3:0-1-8,Edge], [10:0-1-8,Edge], [20:0-1-8,Edge]

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	0.71	Vert(LL)	-0.31	21	>726	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.98	Vert(CT)	-0.42	21	>532	360	M18AHS	186/179
BCLL	0.0	Rep Stress Incr	NO	WB	0.60	Horz(CT)	0.07	17	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 122 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.1(flat) *Except* 1-8: 2x4 SP 2400F 2.0E(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: 28-29,27-28,26-27.

REACTIONS. (size) 29=Mechanical, 26=0-3-8, 17=0-3-8
Max Grav 29=1683(LC 3), 26=1589(LC 8), 17=956(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-29=-1594/0, 2-3=-184/442, 3-4=0/1182, 4-5=0/1182, 5-6=-1297/0, 6-7=-2906/0, 7-9=-2906/0, 9-10=-3769/0, 10-11=-4013/0, 11-12=-4013/0, 12-13=-3363/0, 13-14=-3363/0, 14-15=-2024/0
BOT CHORD 28-29=-442/184, 27-28=-442/184, 26-27=-442/184, 25-26=0/334, 24-25=0/2217, 22-24=0/3494, 21-22=0/4013, 20-21=0/4013, 19-20=0/3768, 18-19=0/2810, 17-18=0/1201
WEBS 3-26=-1130/0, 2-29=-227/546, 5-26=-1752/0, 5-25=0/1266, 6-25=-1211/0, 6-24=0/892, 9-24=-761/0, 9-22=0/484, 10-22=-568/47, 15-17=-1504/0, 15-18=0/1071, 14-18=-1024/0, 14-19=0/705, 12-19=-517/0, 12-20=-94/603

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 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 1 degree rotation about its center.
5) Refer to girder(s) for truss to truss connections.
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.
7) 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: 17-29=-10, 1-16=-100
Concentrated Loads (lb)
Vert: 1=-1450

December 22,2021

TRENCO
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 15 Liberty Meadow
J0722-3745	F5A	Floor	1	1	E16495399
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 22 10:34:49 2021 Page 1
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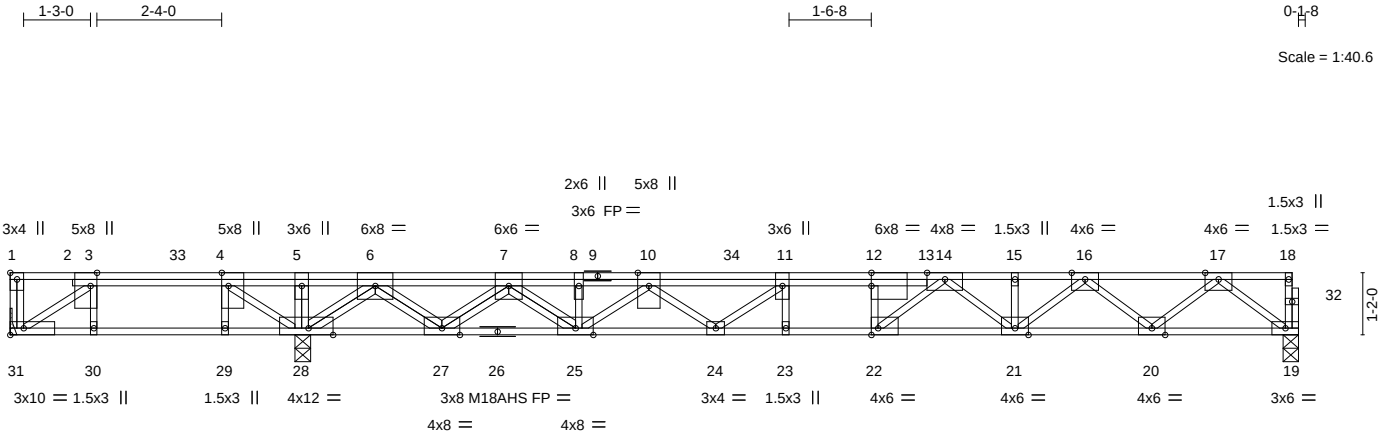


	5-4-0	16-3-0	24-1-8
	5-4-0	10-11-0	7-10-8

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [3:0-3-0,Edge], [4:0-3-0,Edge], [22:0-1-8,Edge], [28:0-5-8,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	0.96	Vert(LL)	-0.36	23-24	>625	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.96	Vert(CT)	-0.48	23-24	>461	360	M18AHS	186/179
BCLL	0.0	Rep Stress Incr	NO	WB	0.83	Horz(CT)	0.07	19	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 153 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP No.1(flat) *Except*
19-26: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-8-1 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 31=Mechanical, 28=0-3-8, 19=0-3-8
Max Uplift 31=-322(LC 3)
Max Grav 31=477(LC 2), 28=3044(LC 5), 19=1214(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-31=-261/0, 3-4=-607/968, 4-5=0/3271, 5-6=0/3271, 6-7=-1121/76, 7-8=-4163/0, 8-10=-4158/0, 10-11=-6230/0, 11-12=-6557/0, 12-14=-6580/0, 14-15=-4640/0, 15-16=-4640/0, 16-17=-2672/0
BOT CHORD 30-31=-968/607, 29-30=-968/607, 28-29=-968/607, 27-28=-949/0, 25-27=0/2760, 24-25=0/5785, 23-24=0/6557, 22-23=0/6557, 21-22=0/5342, 20-21=0/3759, 19-20=0/1541
WEBS 5-28=0/631, 3-31=-735/1171, 4-28=-3537/0, 6-28=-2859/0, 6-27=0/2169, 7-27=-2119/0, 7-25=0/1817, 10-25=-2032/0, 10-24=0/654, 11-24=-645/0, 17-19=-1931/0, 17-20=0/1472, 16-20=-1414/0, 16-21=0/1125, 14-21=-897/0, 14-22=0/1739, 12-22=-911/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 322 lb uplift at joint 31.
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.
7) 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: 19-31=-10, 1-18=-100
Concentrated Loads (lb)
Vert: 33=-940 34=-800

December 22,2021

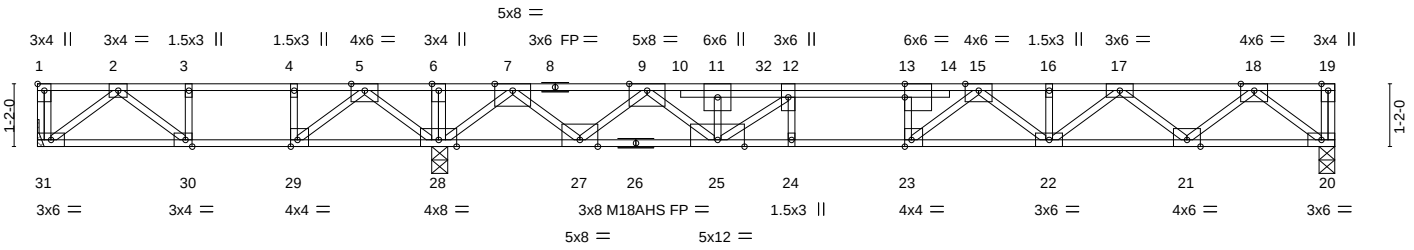
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 15 Liberty Meadow
J0722-3745	F6	Floor	7	1	E16495400
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 22 10:34:50 2021 Page 1
ID:oZsdJhAH7sgso7cS4ggLwVyqezV-?dRWkaWM8yuNxp506bXhAcuKKCfZJKslVcIb0xy6RTJ

1-3-0 1-10-0 2-0-8

Scale = 1:40.3



7-4-0 24-1-8
7-4-0 16-9-8

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [23:0-1-8,Edge], [29:0-1-8,Edge], [30:0-1-8,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	0.96	Vert(LL)	-0.25	24	>780	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.70	Vert(CT)	-0.35	23-24	>571	360	M18AHS	186/179
BCLL	0.0	Rep Stress Incr	NO	WB	0.96	Horz(CT)	0.05	20	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 129 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.1(flat) *Except*
1-8: 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP No.1(flat) *Except*
20-26: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-11-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 31=Mechanical, 28=0-3-8, 20=0-3-8
Max Grav 31=1202(LC 2), 28=2294(LC 1), 20=1067(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-31=-946/0, 2-3=-332/917, 3-4=-332/917, 4-5=-332/917, 5-6=0/2377, 6-7=0/2377, 7-9=-1352/0, 9-11=-4371/0, 11-12=-4368/0, 12-13=-5156/0, 13-15=-5168/0, 15-16=-3885/0, 16-17=-3885/0, 17-18=-2288/0
BOT CHORD 30-31=-303/307, 29-30=-917/332, 28-29=-1696/0, 27-28=-404/0, 25-27=0/2832, 24-25=0/5156, 23-24=0/5156, 22-23=0/4388, 21-22=0/3195, 20-21=0/1341
WEBS 2-31=-385/380, 2-30=-784/32, 3-30=-39/373, 7-28=-2475/0, 7-27=0/2007, 9-27=-1953/0, 9-25=0/1974, 11-25=-727/10, 18-20=-1682/0, 18-21=0/1233, 17-21=-1181/0, 17-22=0/881, 15-22=-642/0, 5-28=-1048/0, 5-29=0/1249, 4-29=-600/0, 15-23=0/1285, 13-23=-683/0, 12-25=-1076/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates 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.

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 20-31=-10, 1-19=-100
Concentrated Loads (lb)
Vert: 1=-900 32=-800

December 22,2021

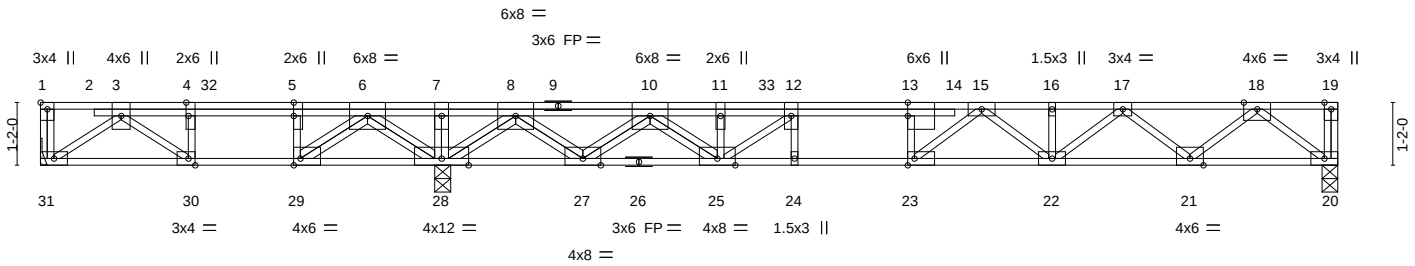
TRENCO
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 15 Liberty Meadow E16495401
J0722-3745	F6A	Floor	1	1	Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 22 10:34:51 2021 Page 1
ID:oZsdJhAH7sgso7cS4ggLwVyqezV-Tp?uxvX_vG0EZzgCgI2wjqQZBbwV2qsvkG18ZNy6RTI

1-3-0 1-10-0 2-0-8

Scale = 1:40.3



7-4-0 24-1-8
7-4-0 16-9-8

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [4:0-3-0,Edge], [5:0-3-0,0-0-0], [13:0-3-0,0-0-0], [23:0-1-8,Edge], [29:0-1-8,Edge], [30:0-1-8,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	0.76	Vert(LL)	-0.21	23-24	>927	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.97	Vert(CT)	-0.29	23-24	>676	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.71	Horz(CT)	0.05	20	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 157 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP 2400F 2.0E(flat) *Except* 9-19: 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 5-6-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 31=Mechanical, 28=0-3-8, 20=0-3-8
Max Uplift 31=-215(LC 3)
Max Grav 31=847(LC 2), 28=2946(LC 1), 20=990(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=-1632/1197, 4-5=-1632/1197, 5-6=-1632/1197, 6-7=0/3615, 7-8=0/3615, 8-10=-341/0, 10-11=-3536/0, 11-12=-3569/0, 12-13=-4454/0, 13-15=-4462/0, 15-16=-3507/0, 16-17=-3507/0, 17-18=-2093/0
BOT CHORD 30-31=-294/1101, 29-30=-1197/1632, 28-29=-2710/85, 27-28=-1483/0, 25-27=0/2001, 24-25=0/4454, 23-24=0/4454, 22-23=0/3916, 21-22=0/2912, 20-21=0/1239
WEBS 7-28=-352/0, 3-31=-1351/361, 3-30=-1126/663, 4-30=-428/625, 8-28=-2646/0, 8-27=0/2173, 10-27=-2122/0, 10-25=0/1958, 11-25=-712/55, 12-25=-1149/0, 18-20=-1554/0, 18-21=0/1112, 17-21=-1066/0, 17-22=0/760, 15-22=-524/0, 15-23=-85/1047, 13-23=-575/42, 6-28=-1873/0, 6-29=0/2999, 5-29=-1661/0

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) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 215 lb uplift at joint 31.
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.
7) CAUTION, Do not erect truss backwards.

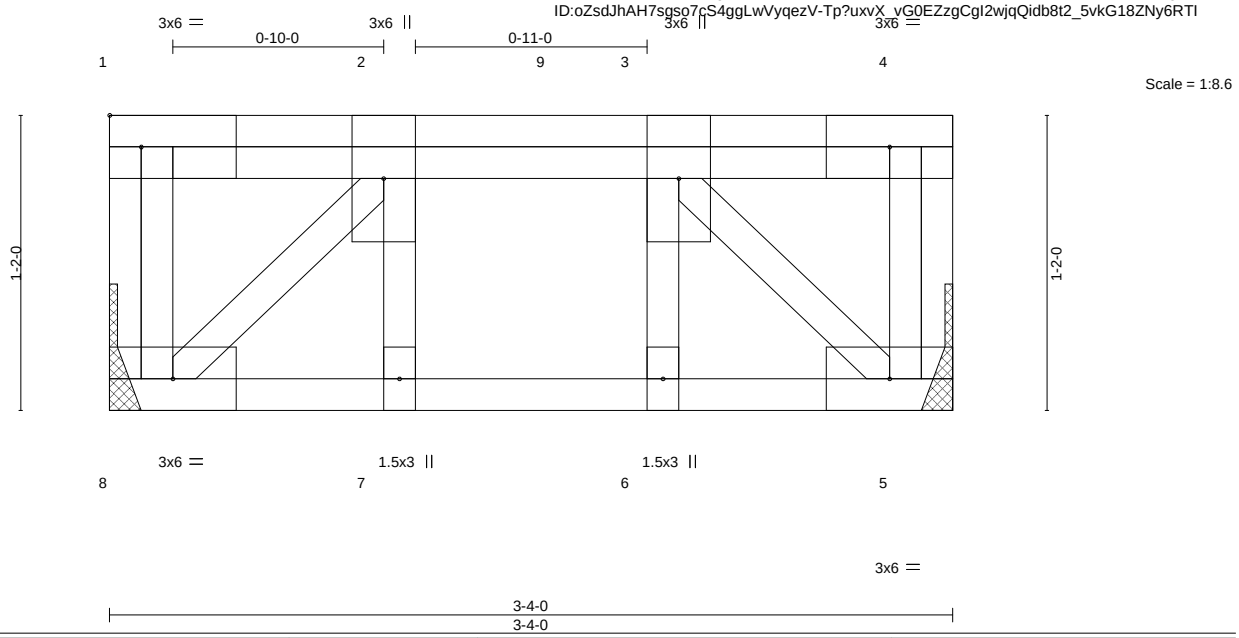
LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 20-31=-10, 1-19=-100
Concentrated Loads (lb)
Vert: 32=-1000 33=-800

December 22,2021

TRENCO
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 15 Liberty Meadow
J0722-3745	FG1	Floor Girder	1	1	E16495402
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 22 10:34:51 2021 Page 1
ID:oZsdJhAH7sgso7cS4ggLwVyqezV-Tp?uxvX_vG0EZzgCgI2wjqQidb8t2_5vkG18ZNy6RTI



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	0.16	Vert(LL)	-0.00	6	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.12	Vert(CT)	-0.00	6	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.12	Horz(CT)	0.00	5	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 25 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 3-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=Mechanical, 5=Mechanical
Max Grav 8=373(LC 1), 5=430(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-386/0
BOT CHORD 7-8=0/386, 6-7=0/386, 5-6=0/386
WEBS 2-8=-535/0, 3-5=-535/0

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) Refer to girder(s) for truss to truss connections.
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.
5) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 490 lb down at 1-10-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
6) 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
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-10, 1-4=-100
Concentrated Loads (lb)
Vert: 9=-464(B)

December 22,2021

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 15 Liberty Meadow E16495403
J0722-3745	FG2	FLOOR GIRDER	1	1	Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 22 10:34:52 2021 Page 1
ID:oZsdJhAH7sgso7cS4ggLwVyqezV-x?ZG9FYcga85A7EOE0Z9G1zmx?JgnGU2zwni5qy6RTH

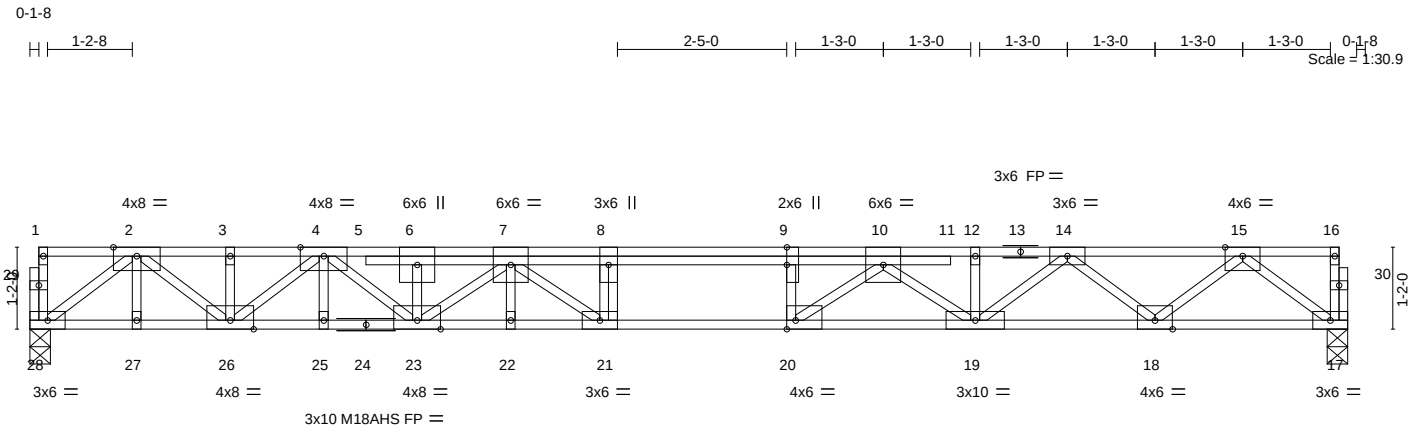


Plate Offsets (X,Y)-- [9:0-3-0,0-0-0], [20:0-1-8,Edge]

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	0.63	Vert(LL)	-0.36	21	>614	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.78	Vert(CT)	-0.50	21	>441	360	M18AHS	186/179
BCLL	0.0	Rep Stress Incr	NO	WB	0.75	Horz(CT)	0.09	17	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 111 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.1(flat) *Except*
17-24: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-4-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 17=0-3-8, 28=0-3-8
Max Grav 17=1158(LC 1), 28=1199(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2769/0, 3-4=-2769/0, 4-6=-4886/0, 6-7=-4884/0, 7-8=-6060/0, 8-9=-6060/0, 9-10=-6060/0, 10-12=-4351/0, 12-14=-4348/0, 14-15=-2532/0
BOT CHORD 27-28=0/1520, 26-27=0/1520, 25-26=0/3801, 23-25=0/3801, 22-23=0/5727, 21-22=0/5727, 20-21=0/6060, 19-20=0/5229, 18-19=0/3559, 17-18=0/1466
WEBS 15-17=-1837/0, 15-18=0/1387, 14-18=-1337/0, 14-19=0/1007, 10-19=-1099/0, 10-20=0/1397, 9-20=-727/0, 2-28=-1893/0, 2-26=0/1585, 4-26=-1309/0, 4-23=0/1374, 7-23=-1046/0, 7-21=-83/852, 8-21=-478/0

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.
6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 374 lb down at 8-1-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

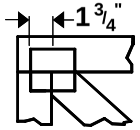
LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 1-16=-100, 17-28=-10
Concentrated Loads (lb)
Vert: 8=-330(B)

December 22,2021

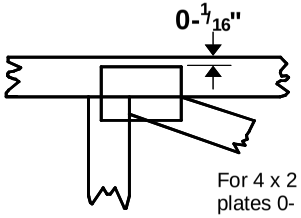
TRENCO
818 Soundside Road
Edenton, NC 27932

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

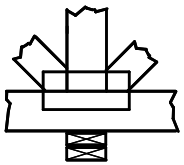
4 x 4

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

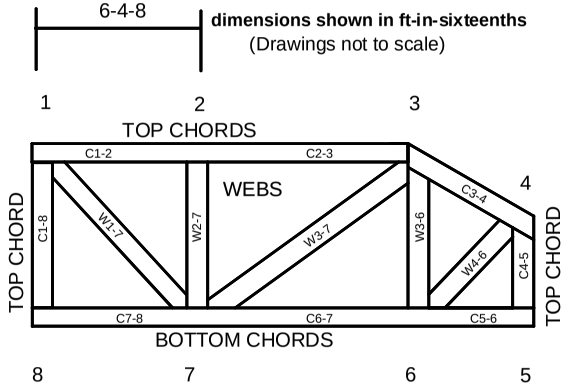


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

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



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 Reference Sheet: MII-7473 rev. 5/19/2020

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.