ENGINEERING BY TRENCO
A MiTek Affiliate

RE: J0425-1940
Lot 20 Turlington Acres

Trenco
818 Soundside Rd
Edenton, NC 27932

Site Information:

Customer: Project Name: J0425-1940
Lot/Block: Model:
Address: Subdivision:
City: State:

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

Design Code: IRC2021/TPI2014 Design Program: MiTek 20/20 8.6
Wind Code: ASCE 7-16 Wind Speed: 130 mph
Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 16 individual, dated Truss Design Drawings and 0 Additional Drawings.

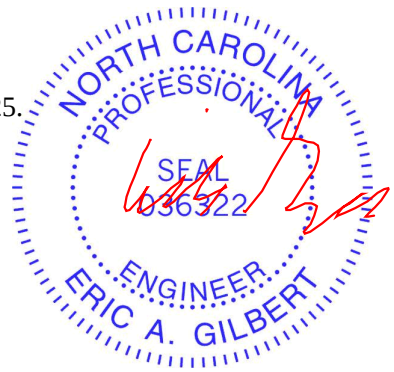
No.	Seal#	Truss Name	Date
1	I71465843	ET-01	2/18/2025
2	I71465844	ET-02	2/18/2025
3	I71465845	ET-03	2/18/2025
4	I71465846	ET-04	2/18/2025
5	I71465847	ET-05	2/18/2025
6	I71465848	ET-G	2/18/2025
7	I71465849	F01	2/18/2025
8	I71465850	F02	2/18/2025
9	I71465851	F03	2/18/2025
10	I71465852	F04	2/18/2025
11	I71465853	F05	2/18/2025
12	I71465854	F06	2/18/2025
13	I71465855	F07	2/18/2025
14	I71465856	F08	2/18/2025
15	I71465857	FG-1	2/18/2025
16	I71465858	FG-3	2/18/2025

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, 2025.

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.

February 18, 2025

Gilbert, Eric

Job	Truss	Truss Type	Qty	Ply	Lot 20 Turlington Acres	
J0425-1940	ET-01	Floor Supported Gable	1	1	Job Reference (optional)	I71465843

Comtech, Inc, Fayetteville, NC - 28314,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Mon Feb 17 13:11:28 Page: 1
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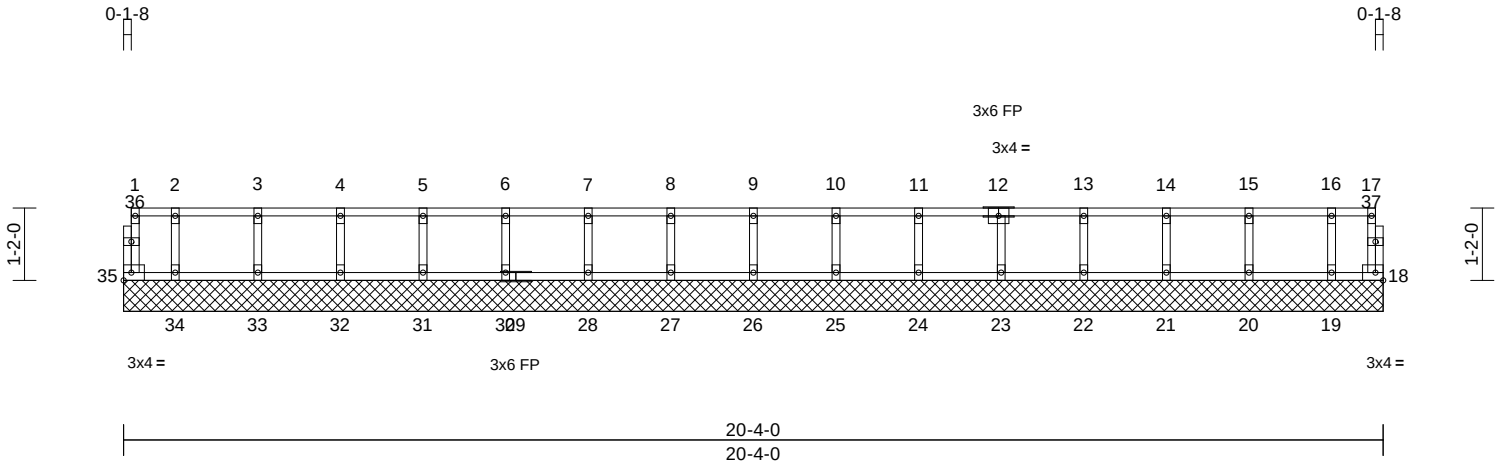

Scale = 1:37.2

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	23	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R							Weight: 85 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 (size) 18=20-4-0, 19=20-4-0, 20=20-4-0, 21=20-4-0, 22=20-4-0, 23=20-4-0, 24=20-4-0, 25=20-4-0, 26=20-4-0, 27=20-4-0, 28=20-4-0, 30=20-4-0, 31=20-4-0, 32=20-4-0, 33=20-4-0, 34=20-4-0, 35=20-4-0
Max Grav 18=13 (LC 1), 19=129 (LC 1), 20=151 (LC 1), 21=145 (LC 1), 22=150 (LC 1), 23=147 (LC 1), 24=143 (LC 1), 25=147 (LC 1), 26=146 (LC 1), 27=147 (LC 1), 28=147 (LC 1), 30=147 (LC 1), 31=147 (LC 1), 32=145 (LC 1), 33=152 (LC 1), 34=118 (LC 1), 35=22 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-35=-18/0, 17-18=-14/0, 1-2=-4/0, 2-3=-4/0, 3-4=-4/0, 4-5=-4/0, 5-6=-4/0, 6-7=-4/0, 7-8=-4/0, 8-9=-4/0, 9-10=-4/0, 10-11=-4/0, 11-13=-4/1, 13-14=0/1, 14-15=0/1, 15-16=0/1, 16-17=0/1
BOT CHORD 34-35=0/4, 33-34=0/4, 32-33=0/4, 31-32=0/4, 30-31=0/4, 28-30=0/4, 27-28=0/4, 26-27=0/4, 25-26=0/4, 24-25=0/4, 23-24=0/4, 22-23=-1/0, 21-22=-1/0, 20-21=-1/0, 19-20=-1/0, 18-19=-1/0
WEBS 9-26=-133/0, 8-27=-133/0, 7-28=-133/0, 6-30=-133/0, 5-31=-134/0, 4-32=-132/0, 3-33=-138/0, 2-34=-109/0, 10-25=-134/0, 11-24=-130/0, 12-23=-133/0, 13-22=-137/0, 14-21=-131/0, 15-20=-138/0, 16-19=-114/0

NOTES
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 1 degree rotation about its center.
3) Gable 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) All bearings are assumed to be SP No.1 crushing capacity of 565 psi.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

February 18,2025

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

Job	Truss	Truss Type	Qty	Ply	Lot 20 Turlington Acres	
J0425-1940	ET-02	Floor Supported Gable	1	1	Job Reference (optional)	I71465844

Comtech, Inc, Fayetteville, NC - 28314,

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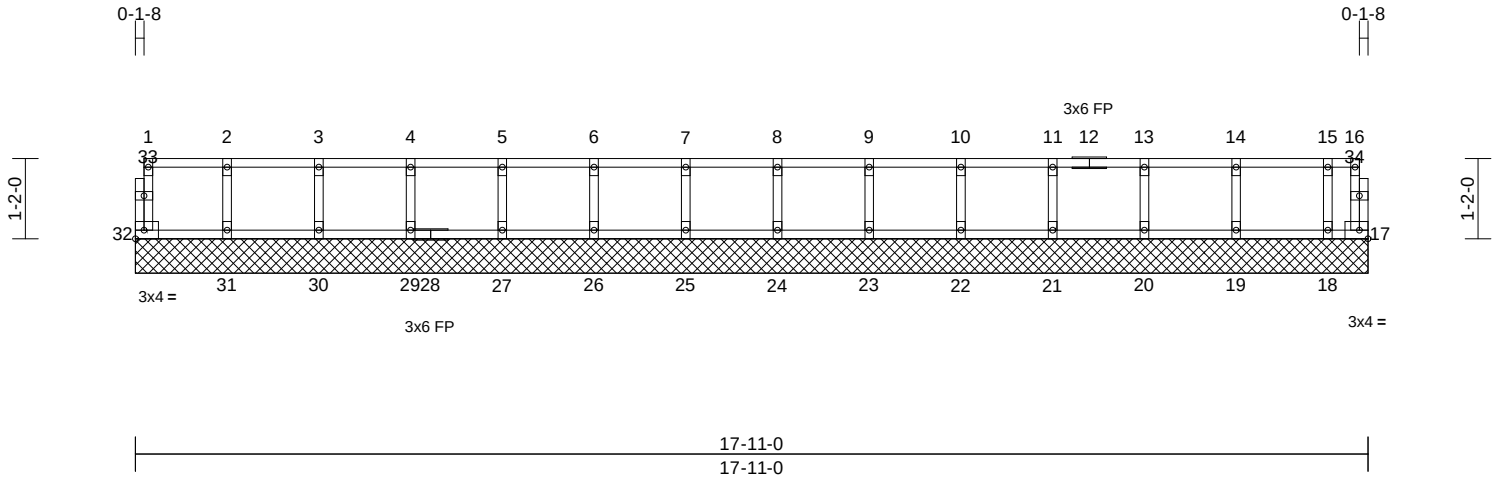

Scale = 1:33.5

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.02	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	17	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R							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)
OTHERS 2x4 SP No.3(flat)

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

REACTIONS (size) 17=17-11-0, 18=17-11-0, 19=17-11-0, 20=17-11-0, 21=17-11-0, 22=17-11-0, 23=17-11-0, 24=17-11-0, 25=17-11-0, 26=17-11-0, 27=17-11-0, 29=17-11-0, 30=17-11-0, 31=17-11-0, 32=17-11-0
Max Grav 17=10 (LC 1), 18=103 (LC 1), 19=153 (LC 1), 20=145 (LC 1), 21=147 (LC 1), 22=147 (LC 1), 23=147 (LC 1), 24=147 (LC 1), 25=147 (LC 1), 26=147 (LC 1), 27=147 (LC 1), 29=147 (LC 1), 30=147 (LC 1), 31=148 (LC 1), 32=52 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-32=-49/0, 16-17=-1/0, 1-2=-6/0, 2-3=-6/0, 3-4=-6/0, 4-5=-6/0, 5-6=-6/0, 6-7=-6/0, 7-8=-6/0, 8-9=-6/0, 9-10=-6/0, 10-11=-6/0, 11-13=-6/0, 13-14=-6/0, 14-15=-6/0, 15-16=-6/0
BOT CHORD 31-32=0/6, 30-31=0/6, 29-30=0/6, 27-29=0/6, 26-27=0/6, 25-26=0/6, 24-25=0/6, 23-24=0/6, 22-23=0/6, 21-22=0/6, 20-21=0/6, 19-20=0/6, 18-19=0/6, 17-18=0/6
WEBS 2-31=-133/0, 3-30=-134/0, 4-29=-133/0, 5-27=-133/0, 6-26=-133/0, 7-25=-133/0, 8-24=-133/0, 9-23=-133/0, 10-22=-133/0, 11-21=-134/0, 13-20=-132/0, 14-19=-139/0, 15-18=-101/0

NOTES
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 1 degree rotation about its center.
3) Gable 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) All bearings are assumed to be SP No.1 crushing capacity of 565 psi.
7) N/A
8) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

February 18,2025

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

Job	Truss	Truss Type	Qty	Ply	Lot 20 Turlington Acres
J0425-1940	ET-03	Floor Supported Gable	1	1	I71465845 Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

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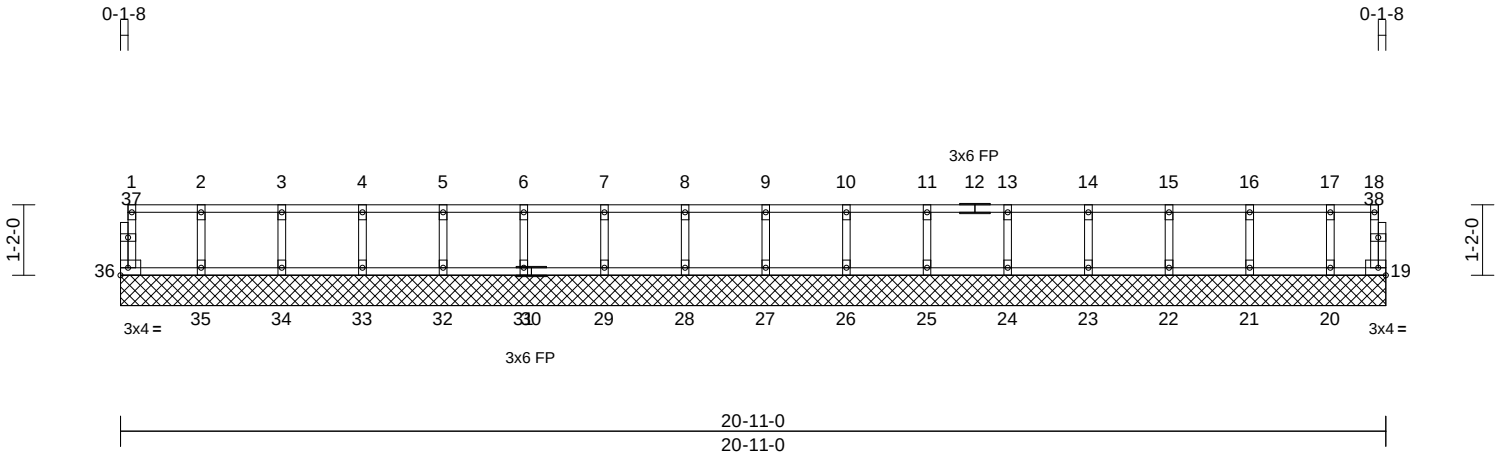

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	19	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R							Weight: 87 lb	FT = 20%F, 11%E

LUMBER

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

BRACING

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

REACTIONS (size) 19=20-11-0, 20=20-11-0, 21=20-11-0, 22=20-11-0, 23=20-11-0, 24=20-11-0, 25=20-11-0, 26=20-11-0, 27=20-11-0, 28=20-11-0, 29=20-11-0, 31=20-11-0, 32=20-11-0, 33=20-11-0, 34=20-11-0, 35=20-11-0, 36=20-11-0

Max Grav 19=31 (LC 1), 20=118 (LC 1), 21=152 (LC 1), 22=145 (LC 1), 23=147 (LC 1), 24=147 (LC 1), 25=147 (LC 1), 26=147 (LC 1), 27=147 (LC 1), 28=147 (LC 1), 29=147 (LC 1), 31=147 (LC 1), 32=147 (LC 1), 33=147 (LC 1), 34=147 (LC 1), 35=147 (LC 1), 36=52 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-36=-49/0, 18-19=-26/0, 1-2=-6/0, 2-3=-6/0, 3-4=-6/0, 4-5=-6/0, 5-6=-6/0, 6-7=-6/0, 7-8=-6/0, 8-9=-6/0, 9-10=-6/0, 10-11=-6/0, 11-13=-6/0, 13-14=-6/0, 14-15=-6/0, 15-16=-6/0, 16-17=-6/0, 17-18=-6/0

BOT CHORD 35-36=0/6, 34-35=0/6, 33-34=0/6, 32-33=0/6, 31-32=0/6, 29-31=0/6, 28-29=0/6, 27-28=0/6, 26-27=0/6, 25-26=0/6, 24-25=0/6, 23-24=0/6, 22-23=0/6, 21-22=0/6, 20-21=0/6, 19-20=0/6

WEBS 2-35=-132/0, 3-34=-134/0, 4-33=-133/0, 5-32=-133/0, 6-31=-133/0, 7-29=-133/0, 8-28=-133/0, 9-27=-133/0, 10-26=-133/0, 11-25=-133/0, 13-24=-133/0, 14-23=-134/0, 15-22=-132/0, 16-21=-138/0, 17-20=-110/0

NOTES

1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 1 degree rotation about its center.
3) Gable 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) All bearings are assumed to be SP No.1 crushing capacity of 565 psi.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

February 18,2025

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 20 Turlington Acres
J0425-1940	ET-04	Floor Supported Gable	1	1	I71465846
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

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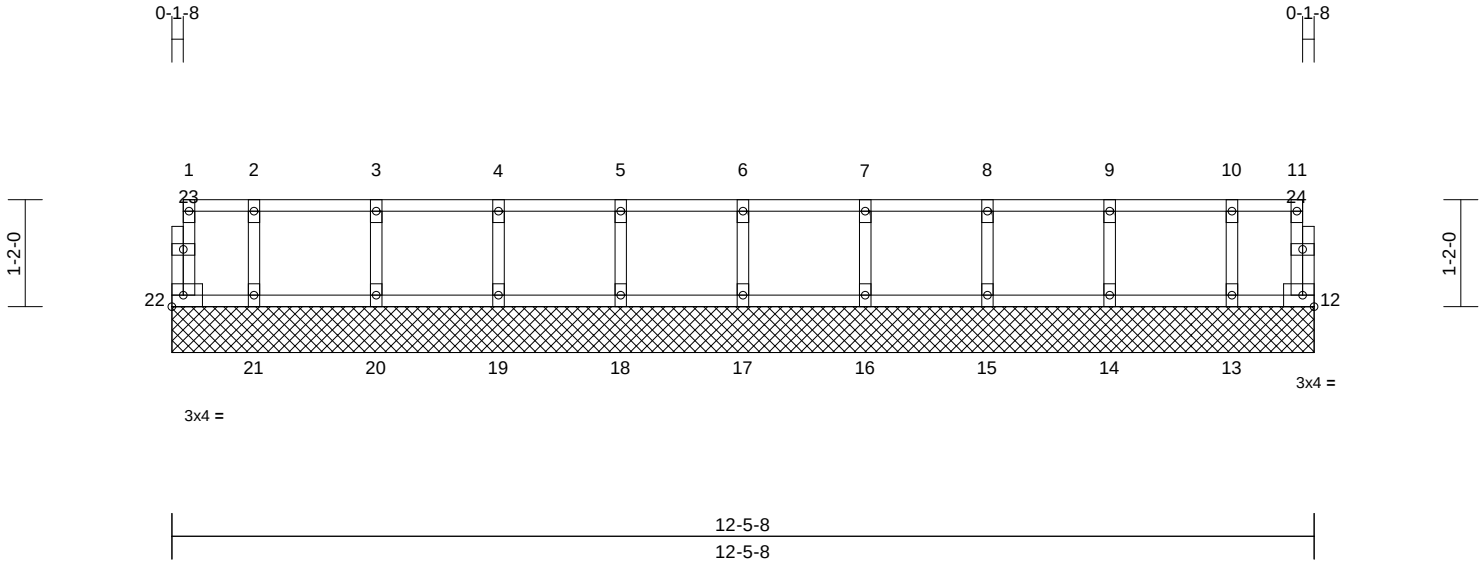

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	12	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R							Weight: 54 lb	FT = 20%F, 11%E

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

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

REACTIONS (size) 12=12-5-8, 13=12-5-8, 14=12-5-8, 15=12-5-8, 16=12-5-8, 17=12-5-8, 18=12-5-8, 19=12-5-8, 20=12-5-8, 21=12-5-8, 22=12-5-8
Max Grav 12=23 (LC 1), 13=125 (LC 1), 14=151 (LC 1), 15=145 (LC 1), 16=147 (LC 1), 17=147 (LC 1), 18=147 (LC 1), 19=145 (LC 1), 20=151 (LC 1), 21=125 (LC 1), 22=23 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-22=-21/0, 11-12=-21/0, 1-2=-2/0, 2-3=-2/0, 3-4=-2/0, 4-5=-2/0, 5-6=-2/0, 6-7=-2/0, 7-8=-2/0, 8-9=-2/0, 9-10=-2/0, 10-11=-2/0
BOT CHORD 21-22=0/2, 20-21=0/2, 19-20=0/2, 18-19=0/2, 17-18=0/2, 16-17=0/2, 15-16=0/2, 14-15=0/2, 13-14=0/2, 12-13=0/2
WEBS 6-17=-133/0, 5-18=-134/0, 4-19=-132/0, 3-20=-138/0, 2-21=-113/0, 7-16=-134/0, 8-15=-132/0, 9-14=-138/0, 10-13=-113/0

NOTES
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 1 degree rotation about its center.
3) Gable 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) All bearings are assumed to be SP No.1 crushing capacity of 565 psi.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 20 Turlington Acres
J0425-1940	ET-05	Floor Supported Gable	1	1	I71465847
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

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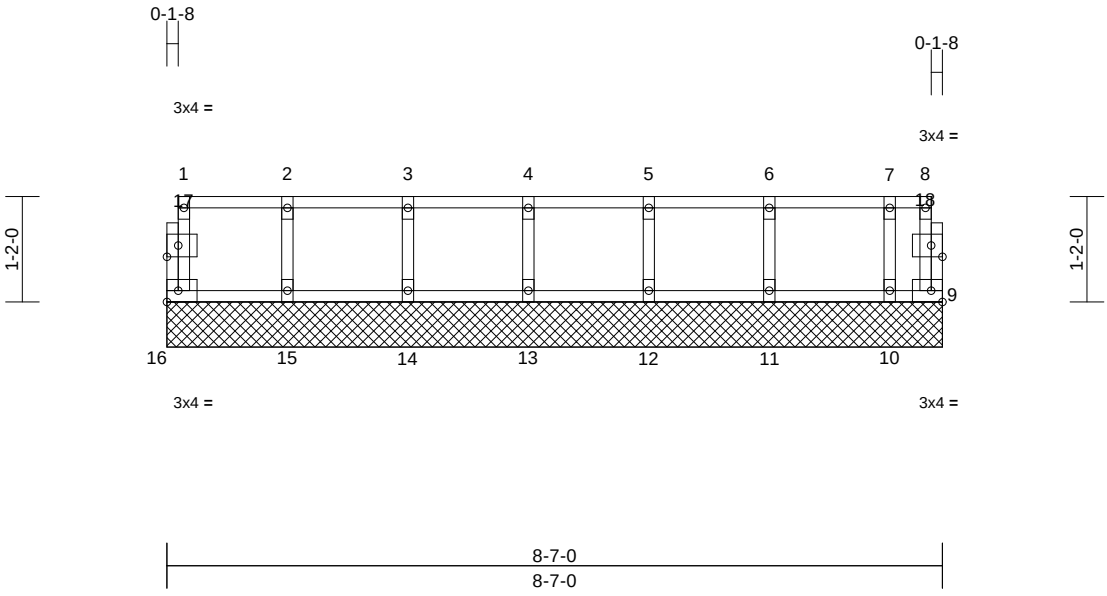

Scale = 1:25.5

Plate Offsets (X, Y): [17:0-1-8,0-1-8], [18:0-1-8,0-1-8]

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	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.02	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	9	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R							Weight: 38 lb	FT = 20%F, 11%E

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

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

REACTIONS (size) 9=8-7-0, 10=8-7-0, 11=8-7-0, 12=8-7-0, 13=8-7-0, 14=8-7-0, 15=8-7-0, 16=8-7-0
Max Grav 9=11 (LC 1), 10=102 (LC 1), 11=153 (LC 1), 12=145 (LC 1), 13=147 (LC 1), 14=147 (LC 1), 15=147 (LC 1), 16=53 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-16=-49/0, 8-9=-2/0, 1-2=-7/0, 2-3=-7/0, 3-4=-7/0, 4-5=-7/0, 5-6=-7/0, 6-7=-7/0, 7-8=-7/0
BOT CHORD 15-16=0/7, 14-15=0/7, 13-14=0/7, 12-13=0/7, 11-12=0/7, 10-11=0/7, 9-10=0/7
WEBS 2-15=-132/0, 3-14=-134/0, 4-13=-134/0, 5-12=-132/0, 6-11=-139/0, 7-10=-101/0

NOTES
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 1 degree rotation about its center.
3) Gable 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) All bearings are assumed to be SP No.1 crushing capacity of 565 psi.
7) N/A
8) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 20 Turlington Acres
J0425-1940	ET-G	Floor Girder	1	1	I71465848
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Mon Feb 17 13:11:29 Page: 1
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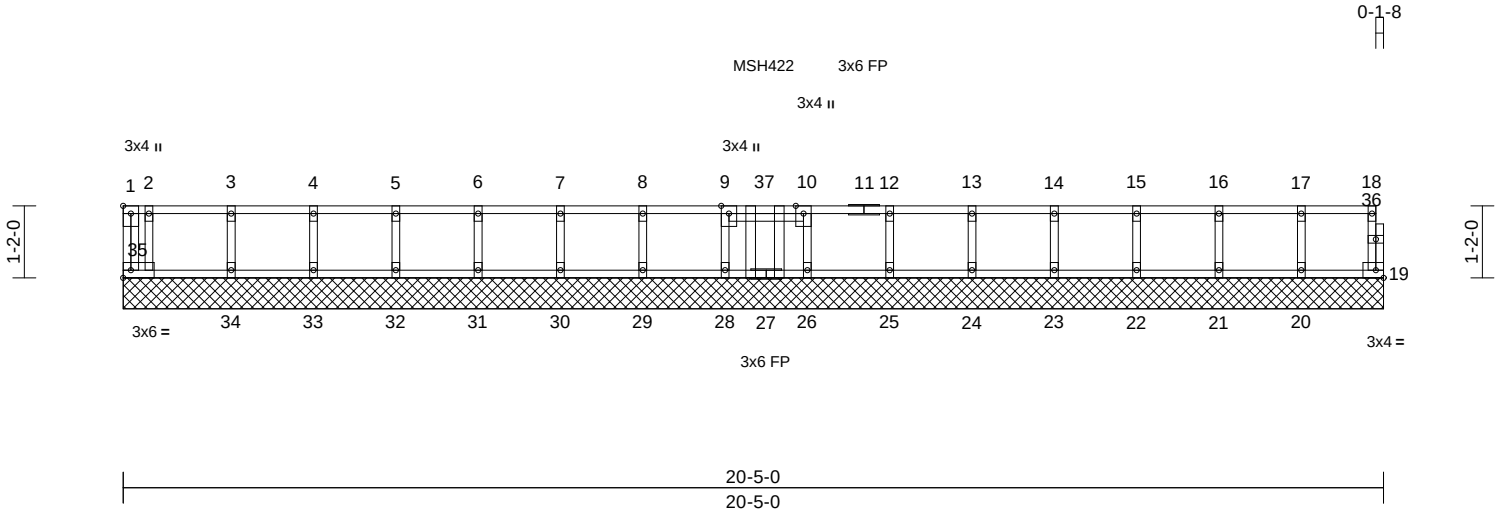

Scale = 1:37.3

Plate Offsets (X, Y): [1: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	0.19	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.02	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	NO	WB	0.08	Horiz(TL)	0.00	19	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R							Weight: 88 lb	FT = 20%F, 11%E

LUMBER

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

BRACING

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

REACTIONS (size) 19=20-5-0, 20=20-5-0, 21=20-5-0, 22=20-5-0, 23=20-5-0, 24=20-5-0, 25=20-5-0, 26=20-5-0, 28=20-5-0, 29=20-5-0, 30=20-5-0, 31=20-5-0, 32=20-5-0, 33=20-5-0, 34=20-5-0, 35=20-5-0

Max Grav 19=62 (LC 1), 20=135 (LC 1), 21=150 (LC 1), 22=146 (LC 1), 23=146 (LC 1), 24=151 (LC 1), 25=128 (LC 1), 26=349 (LC 1), 28=361 (LC 1), 29=127 (LC 1), 30=152 (LC 1), 31=145 (LC 1), 32=148 (LC 1), 33=142 (LC 1), 34=162 (LC 1), 35=92 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-35=0/3, 18-19=-54/0, 1-2=0/0, 2-3=-15/0, 3-4=-15/0, 4-5=-15/0, 5-6=-15/0, 6-7=-15/0, 7-8=-15/0, 8-9=-15/0, 9-10=-15/0, 10-12=-15/0, 12-13=-15/0, 13-14=-15/0, 14-15=-15/0, 15-16=-15/0, 16-17=-15/0, 17-18=-15/0

BOT CHORD 34-35=0/15, 33-34=0/15, 32-33=0/15, 31-32=0/15, 30-31=0/15, 29-30=0/15, 28-29=0/15, 26-28=0/15, 25-26=0/15, 24-25=0/15, 23-24=0/15, 22-23=0/15, 21-22=0/15, 20-21=0/15, 19-20=0/15

WEBS 17-20=-127/0, 16-21=-135/0, 15-22=-133/0, 14-23=-132/0, 13-24=-138/0, 12-25=-114/0, 10-26=-336/0, 9-28=-348/0, 8-29=-114/0, 7-30=-138/0, 6-31=-132/0, 5-32=-134/0, 4-33=-130/0, 3-34=-144/0, 2-35=-92/0

NOTES

1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 1 degree rotation about its center.
3) Gable 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) All bearings are assumed to be SP No.1 crushing capacity of 565 psi.
7) N/A
8) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
9) CAUTION, Do not erect truss backwards.
10) Use MiTek MSH422 (With 10d nails into Girder & 6-10d nails into Truss) or equivalent at 10-4-12 from the left end to connect truss(es) to back face of top chord.
11) Fill all nail holes where hanger is in contact with lumber.
12) 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 (lb/ft)
   Vert: 19-35=-10, 1-18=-100
   Concentrated Loads (lb)
   Vert: 37=-386 (B)

February 18,2025

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

Job	Truss	Truss Type	Qty	Ply	Lot 20 Turlington Acres
J0425-1940	F01	Floor	1	1	I71465849
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

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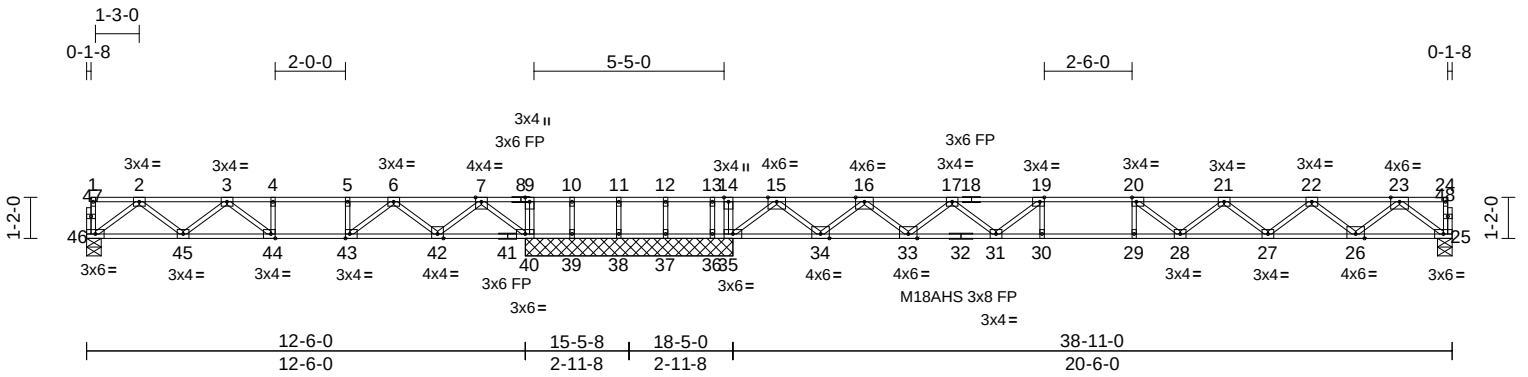

Scale = 1:65.7

Plate Offsets (X, Y): [19:0-1-8,Edge], [20:0-1-8,Edge], [43:0-1-8,Edge], [44:0-1-8,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	0.68	Vert(LL)	-0.39	28-29	>636	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.70	Vert(CT)	-0.53	28-29	>465	240	M18AHS	186/179
BCLL	0.0	Rep Stress Incr	YES	WB	0.70	Horz(CT)	0.06	25	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 187 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.1(flat) *Except* 18-24:2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP No.1(flat) *Except* 32-25:2x4 SP 2400F 2.0E(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 (size) 25=0-5-0, 35=5-11-0, 36=5-11-0, 37=5-11-0, 38=5-11-0, 39=5-11-0, 40=5-11-0, 46=0-5-0
Max Uplift 36=-397 (LC 4)
Max Grav 25=1028 (LC 4), 35=1631 (LC 4), 36=42 (LC 3), 37=174 (LC 1), 38=153 (LC 3), 39=156 (LC 1), 40=905 (LC 1), 46=609 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-46=-38/0, 24-25=-38/0, 1-2=-2/0, 2-3=-1162/0, 3-4=-1590/266, 4-5=-1590/266, 5-6=-1590/266, 6-7=-636/935, 7-9=0/1971, 9-10=0/1971, 10-11=0/1971, 11-12=0/1971, 12-13=0/1971, 13-14=0/1971, 14-15=0/1971, 15-16=-827/79, 16-17=-2755/0, 17-19=-3990/0, 19-20=-4574/0, 20-21=-4450/0, 21-22=-3665/0, 22-23=-2206/0, 23-24=-2/0
BOT CHORD 45-46=0/748, 44-45=-28/1520, 43-44=-266/1590, 42-43=-640/1197, 40-42=-1233/74, 39-40=-1971/0, 38-39=-1971/0, 37-38=-1971/0, 36-37=-1971/0, 35-36=-1971/0, 34-35=-550/0, 33-34=0/1957, 31-33=0/3502, 30-31=0/4574, 29-30=0/4574, 28-29=0/4574, 27-28=0/4226, 26-27=0/3085, 25-26=0/1293
WEBS 9-40=-118/39, 14-35=-365/0, 7-40=-1336/0, 2-46=-935/0, 7-42=0/867, 2-45=0/539, 6-42=-887/0, 3-45=-466/98, 6-43=0/764, 3-44=-303/90, 4-44=-79/127, 5-43=-353/0, 15-35=-1782/0, 23-25=-1619/0, 15-34=0/1476, 23-26=0/1190, 16-34=-1491/0, 22-26=-1143/0, 16-33=0/1060, 22-27=0/756, 17-33=-992/0, 21-27=-731/0, 17-31=0/663, 21-28=0/291, 19-31=-789/0, 20-28=-158/21, 19-30=0/156, 20-29=-117/0, 10-39=-148/0, 11-38=-136/0, 12-37=-150/0, 13-36=-71/228

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) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
6) Gable studs spaced at 1-4-0 oc.
7) Bearings are assumed to be: Joint 46 SP No.1 crushing capacity of 565 psi, Joint 36 SP No.1 crushing capacity of 565 psi, Joint 25 SP 2400F 2.0E crushing capacity of 805 psi.
8) N/A
9) N/A
10) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
11) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

NORTH CAROLINA PROFESSIONAL SEAL 036322 ENGINEER ERIC A. GILBERT

February 18,2025

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

Job	Truss	Truss Type	Qty	Ply	Lot 20 Turlington Acres
J0425-1940	F02	Floor	6	1	I71465850
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

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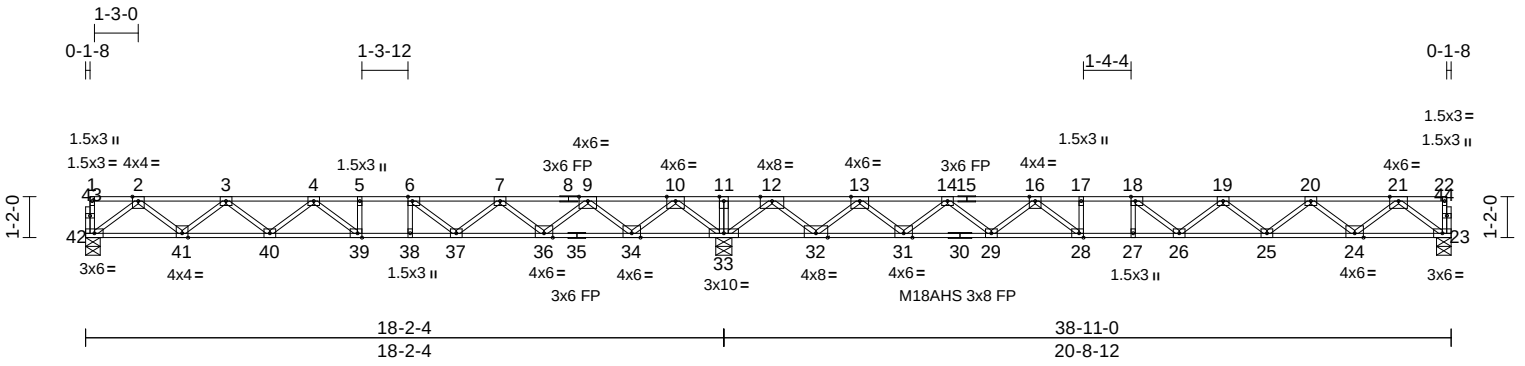

Scale = 1:65.7

Plate Offsets (X, Y): [6:0-1-8,Edge], [18:0-1-8,Edge], [28:0-1-8,Edge], [39:0-1-8,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.94	Vert(LL)	-0.36	27	>689	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.77	Vert(CT)	-0.46	26-27	>532	240	M18AHS	186/179
BCLL	0.0	Rep Stress Incr	YES	WB	0.81	Horz(CT)	0.05	23	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 193 lb	FT = 20%F, 11%E

LUMBER
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.1(flat) *Except* 30-23:2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)
OTHERS 2x4 SP No.3(flat)

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

REACTIONS (size) 23=0-5-0, 33=0-5-8, 42=0-5-0
Max Grav 23=967 (LC 4), 33=2621 (LC 1), 42=834 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-42=-38/0, 22-23=-37/0, 1-2=-2/0, 2-3=-1721/0, 3-4=-2716/0, 4-5=-3031/300, 5-6=-3031/300, 6-7=-2629/672, 7-9=-1573/1300, 9-10=0/2108, 10-11=0/4508, 11-12=0/4508, 12-13=0/1749, 13-14=-1794/844, 14-16=-3183/260, 16-17=-4074/0, 17-18=-4074/0, 18-19=-4007/0, 19-20=-3369/0, 20-21=-2055/0, 21-22=-2/0
BOT CHORD 41-42=0/1036, 40-41=0/2376, 39-40=-43/3013, 38-39=-300/3031, 37-38=-300/3031, 36-37=-974/2249, 34-36=-1667/863, 33-34=-2960/0, 32-33=-2818/0, 31-32=-1208/905, 29-31=-519/2643, 28-29=-1/3723, 27-28=0/4074, 26-27=0/4074, 25-26=0/3855, 24-25=0/2861, 23-24=0/1213
WEBS 11-33=-125/0, 12-33=-2120/0, 21-23=-1519/0, 12-32=0/1694, 21-24=0/1095, 13-32=-1669/0, 20-24=-1050/0, 13-31=0/1271, 20-25=0/661, 14-31=-1213/0, 19-25=-633/0, 14-29=0/804, 19-26=-167/243, 16-29=-830/0, 18-26=-230/447, 16-28=0/919, 17-28=-310/0, 18-27=-310/27, 10-33=-1942/0, 2-42=-1296/0, 10-34=0/1531, 2-41=0/892, 9-34=-1505/0, 3-41=-853/0, 9-36=0/1090, 3-40=-65/443, 7-36=-1037/0, 4-40=-387/153, 7-37=0/761, 4-39=-560/77, 6-37=-955/0, 5-39=-36/162, 6-38=0/283

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) Bearings are assumed to be: Joint 42 SP No.1 crushing capacity of 565 psi, Joint 33 SP No.1 crushing capacity of 565 psi, Joint 23 SP 2400F 2.0E crushing capacity of 805 psi.
6) One RT3A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 42, 33, and 23. This connection is for uplift only and does not consider lateral forces.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

February 18,2025

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

Job	Truss	Truss Type	Qty	Ply	Lot 20 Turlington Acres
J0425-1940	F03	Floor	11	1	I71465851
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

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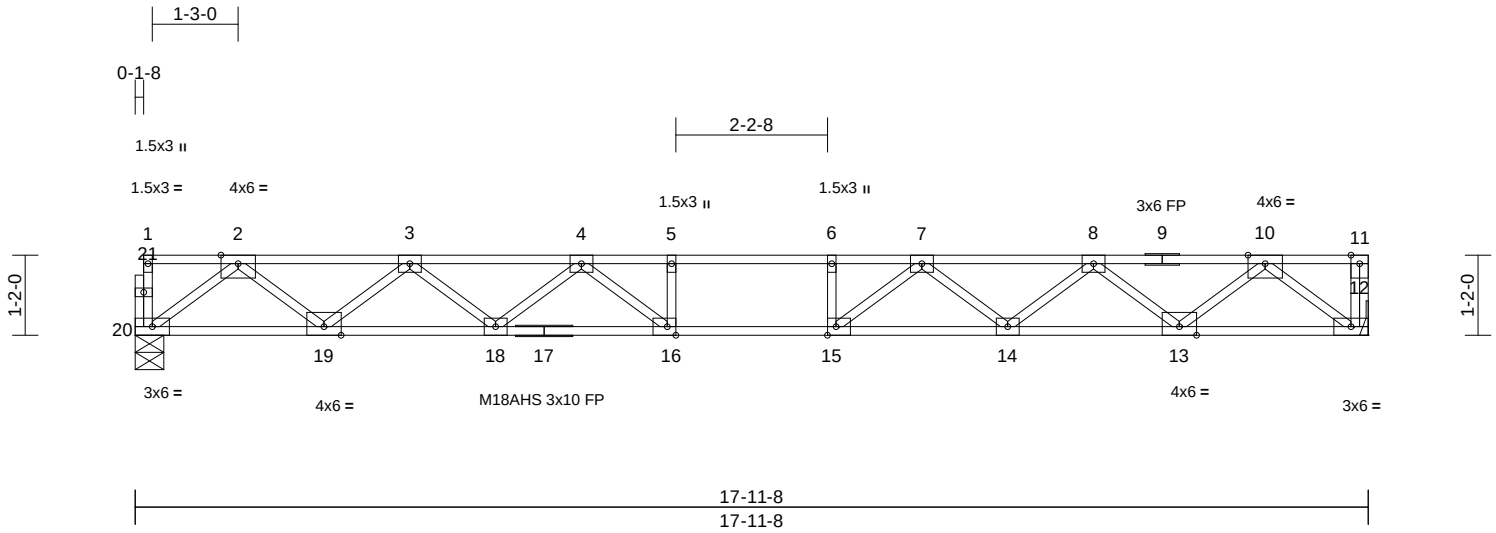

Scale = 1:33.6

Plate Offsets (X, Y): [15:0-1-8,Edge], [16:0-1-8,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	0.65	Vert(LL)	-0.29	15-16	>736	360	M18AHS	186/179
TCDL	10.0	Lumber DOL	1.00	BC	0.86	Vert(CT)	-0.40	15-16	>535	240	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.52	Horz(CT)	0.07	12	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 89 lb	FT = 20%F, 11%E

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

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

REACTIONS (size) 12= Mechanical, 20=0-5-0
Max Grav 12=974 (LC 1), 20=968 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-20=-39/0, 11-12=-43/0, 1-2=-2/0, 2-3=-2058/0, 3-4=-3362/0, 4-5=-4084/0, 5-6=-4084/0, 6-7=-4084/0, 7-8=-3362/0, 8-10=-2058/0, 10-11=0/0
BOT CHORD 19-20=0/1211, 18-19=0/2871, 16-18=0/3824, 15-16=0/4084, 14-15=0/3824, 13-14=0/2871, 12-13=0/1212
WEBS 10-12=-1520/0, 2-20=-1516/0, 10-13=0/1102, 2-19=0/1102, 8-13=-1058/0, 3-19=-1059/0, 8-14=0/639, 3-18=0/639, 7-14=-601/0, 4-18=-601/0, 7-15=-65/681, 4-16=-65/681, 5-16=-313/0, 6-15=-313/0

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) Bearings are assumed to be: Joint 20 SP No.1 crushing capacity of 565 psi.
6) Refer to girder(s) for truss to truss connections.
7) One RT3A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 20. This connection is for uplift only and does not consider lateral forces.
8) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
9) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

February 18,2025

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

Job	Truss	Truss Type	Qty	Ply	Lot 20 Turlington Acres	I71465852
J0425-1940	F04	Floor	8	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

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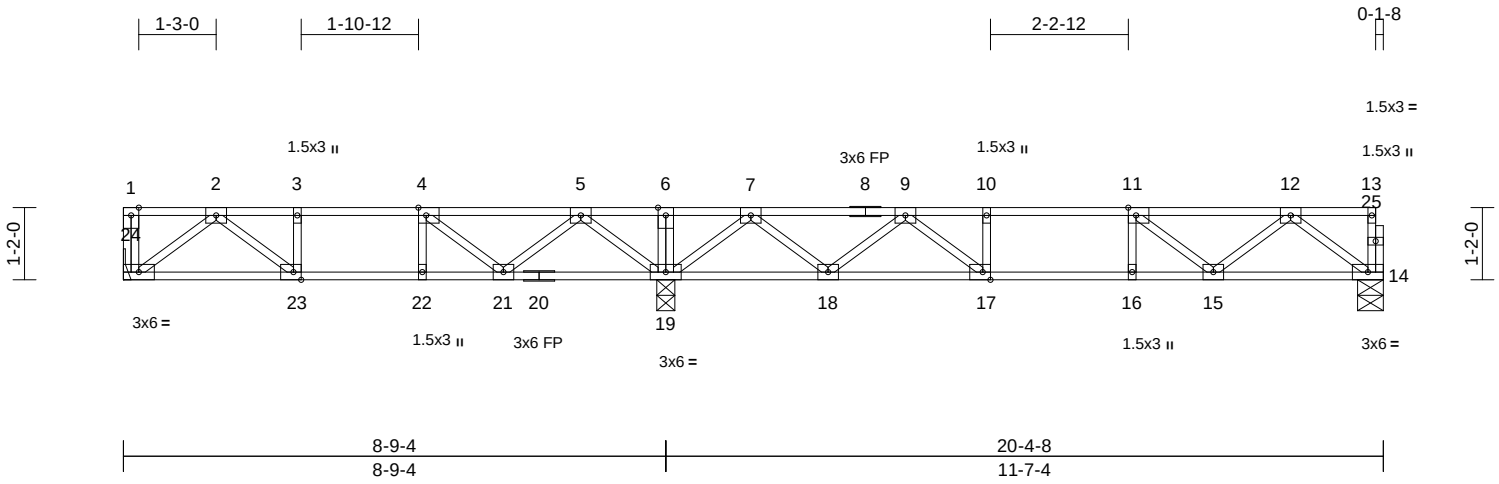

Scale = 1:37.3

Plate Offsets (X, Y): [4:0-1-8,Edge], [11:0-1-8,Edge], [17:0-1-8,Edge], [23:0-1-8,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	0.35	Vert(LL)	-0.07	15-16	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.45	Vert(CT)	-0.08	15-16	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.32	Horz(CT)	0.02	14	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 101 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 (size) 14=0-5-0, 19=0-3-8, 24= Mechanical
Max Grav 14=566 (LC 7), 19=1306 (LC 1), 24=411 (LC 10)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-24=-59/0, 13-14=-35/0, 1-2=0/0, 2-3=-715/19, 3-4=-715/19, 4-5=-424/227, 5-6=0/1039, 6-7=0/1039, 7-9=-692/91, 9-10=-1394/0, 10-11=-1394/0, 11-12=-1048/0, 12-13=-2/0
BOT CHORD 23-24=0/452, 22-23=-19/715, 21-22=-19/715, 19-21=-410/116, 18-19=-271/203, 17-18=0/1156, 16-17=0/1394, 15-16=0/1394, 14-15=0/687
WEBS 6-19=-102/0, 7-19=-1090/0, 12-14=-860/0, 7-18=0/682, 12-15=0/469, 9-18=-665/0, 11-15=-442/0, 9-17=0/510, 10-17=-226/0, 11-16=-78/43, 5-19=-880/0, 2-24=-567/0, 5-21=0/521, 2-23=-67/335, 4-21=-548/0, 3-23=-170/33, 4-22=-4/95

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) Bearings are assumed to be: , Joint 19 SP No.1 crushing capacity of 565 psi, Joint 14 SP No.1 crushing capacity of 565 psi.
5) Refer to girder(s) for truss to truss connections.
6) One RT3A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 19 and 14. This connection is for uplift only and does not consider lateral forces.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

February 18,2025

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

Job	Truss	Truss Type	Qty	Ply	Lot 20 Turlington Acres
J0425-1940	F05	Floor	1	1	I71465853
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Mon Feb 17 13:11:30 Page: 1
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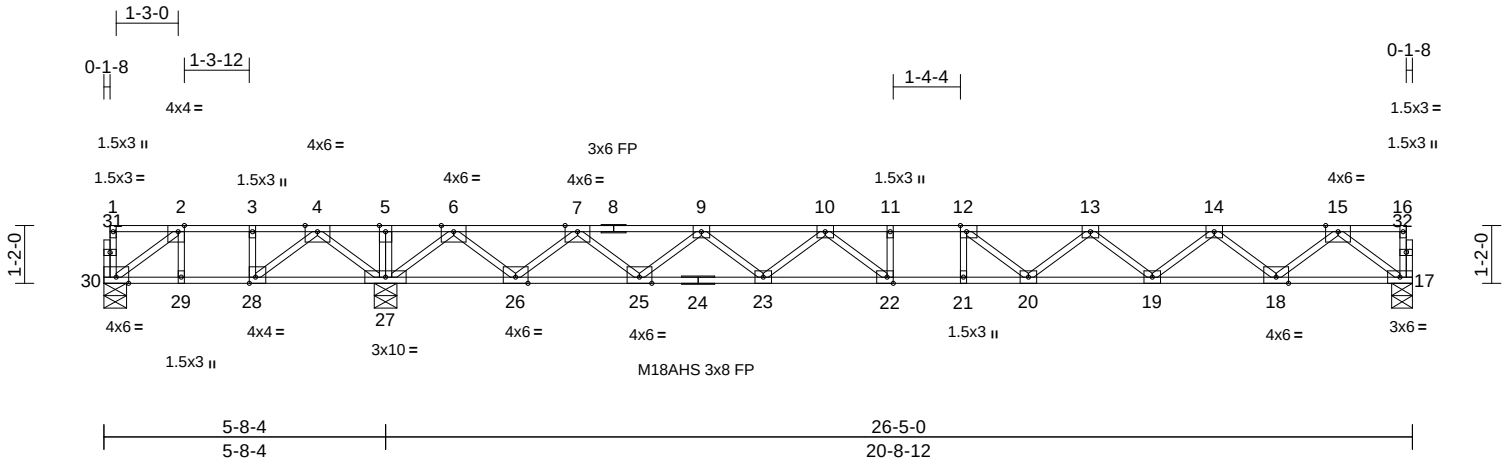

Scale = 1:46.5

Plate Offsets (X, Y): [2:0-1-8,Edge], [12:0-1-8,Edge], [22:0-1-8,Edge], [28:0-1-8,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	0.64	Vert(LL)	-0.32	21	>768	360	M18AHS	186/179
TCDL	10.0	Lumber DOL	1.00	BC	0.57	Vert(CT)	-0.44	21	>563	240	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.75	Horz(CT)	0.05	17	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 133 lb	FT = 20%F, 11%E

LUMBER
TOP CHORD 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)
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 (size) 17=0-5-0, 27=0-5-8, 30=0-5-8
Max Uplift 30=-403 (LC 4)
Max Grav 17=996 (LC 7), 27=2084 (LC 1), 30=137 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-30=-187/0, 16-17=-38/0, 1-2=-11/0, 2-3=-39/905, 3-4=-39/905, 4-5=0/2715, 5-6=0/2715, 6-7=-210/173, 7-9=-2215/0, 9-10=-3543/0, 10-11=-4341/0, 11-12=-4341/0, 12-13=-4216/0, 13-14=-3510/0, 14-15=-2126/0, 15-16=-2/0
BOT CHORD 29-30=-905/39, 28-29=-905/39, 27-28=-1858/0, 26-27=-1145/0, 25-26=0/1367, 23-25=0/3034, 22-23=0/4041, 21-22=0/4341, 20-21=0/4341, 19-20=0/4028, 18-19=0/2968, 17-18=0/1250
WEBS 5-27=-202/0, 4-27=-1204/0, 2-30=-42/1128, 4-28=0/1329, 2-29=-308/0, 3-28=-559/0, 6-27=-1970/0, 15-17=-1566/0, 6-26=0/1579, 15-18=0/1140, 7-26=-1521/0, 14-18=-1095/0, 7-25=0/1117, 14-19=0/705, 9-25=-1078/0, 13-19=-675/0, 9-23=0/674, 13-20=-18/406, 10-23=-663/0, 12-20=-457/211, 10-22=-57/707, 11-22=-261/0, 12-21=-200/105

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) All bearings are assumed to be SP 2400F 2.0E crushing capacity of 805 psi.
6) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 30. This connection is for uplift only and does not consider lateral forces.
7) One RT3A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 27 and 17. This connection is for uplift only and does not consider lateral forces.
8) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
9) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

February 18,2025

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

Job	Truss	Truss Type	Qty	Ply	Lot 20 Turlington Acres
J0425-1940	F06	Floor	1	1	I71465854
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Mon Feb 17 13:11:30 Page: 1
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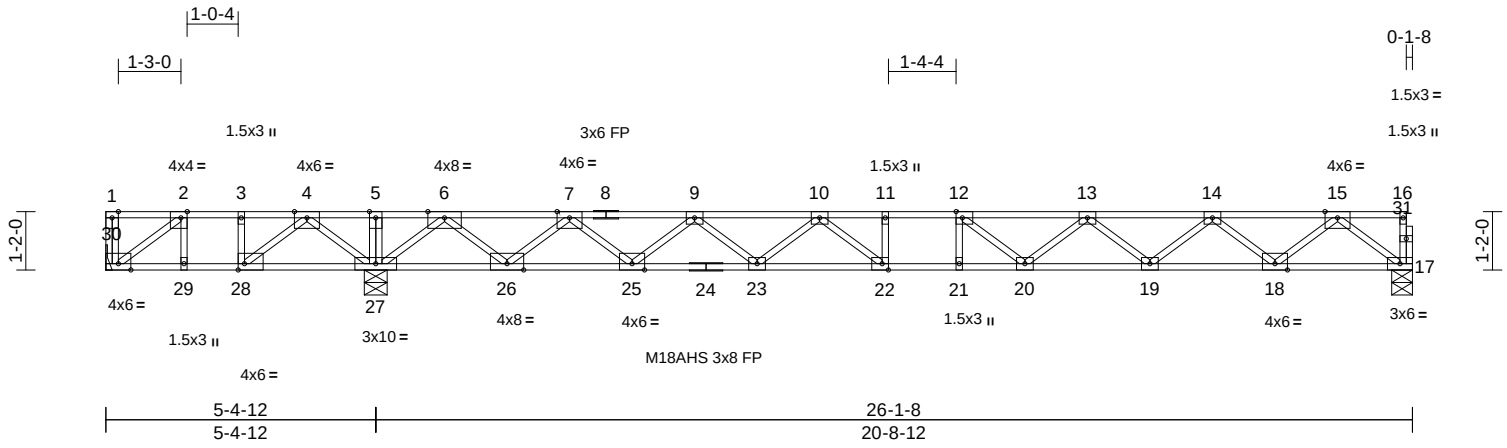

Scale = 1:46.1

Plate Offsets (X, Y): [2:0-1-8,Edge], [12:0-1-8,Edge], [22:0-1-8,Edge], [28:0-1-8,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.62	Vert(LL)	-0.31	20-21	>796	360	M18AHS	186/179
TCDL	10.0	Lumber DOL	1.00	BC	0.57	Vert(CT)	-0.42	20-21	>583	240	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.76	Horz(CT)	0.05	17	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 132 lb	FT = 20%F, 11%E

LUMBER
TOP CHORD 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)
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 (size) 17=0-5-0, 27=0-5-8, 30= Mechanical
Max Uplift 30=-499 (LC 4)
Max Grav 17=979 (LC 7), 27=2173 (LC 1), 30=107 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-30=-180/0, 16-17=-38/0, 1-2=0/0, 2-3=0/1025, 3-4=0/1025, 4-5=0/3013, 5-6=0/3013, 6-7=0/307, 7-9=-1969/0, 9-10=-3335/0, 10-11=-4187/0, 11-12=-4187/0, 12-13=-4094/0, 13-14=-3428/0, 14-15=-2085/0, 15-16=-2/0
BOT CHORD 29-30=-1025/0, 28-29=-1025/0, 27-28=-2077/0, 26-27=-1424/0, 25-26=0/1100, 23-25=0/2807, 22-23=0/3855, 21-22=0/4187, 20-21=0/4187, 19-20=0/3928, 18-19=0/2906, 17-18=0/1229
WEBS 5-27=-201/0, 4-27=-1321/0, 2-30=0/1265, 4-28=0/1435, 2-29=-350/0, 3-28=-585/0, 6-27=-1995/0, 15-17=-1539/0, 6-26=0/1600, 15-18=0/1114, 7-26=-1545/0, 14-18=-1069/0, 7-25=0/1142, 14-19=0/680, 9-25=-1101/0, 13-19=-651/0, 9-23=0/696, 13-20=-31/385, 10-23=-689/0, 12-20=-427/230, 10-22=-27/726, 11-22=-268/0, 12-21=-207/95

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) Bearings are assumed to be: , Joint 27 SP 2400F 2.0E crushing capacity of 805 psi, Joint 17 SP 2400F 2.0E crushing capacity of 805 psi.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 499 lb uplift at joint 30.
8) One RT3A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 27 and 17. This connection is for uplift only and does not consider lateral forces.
9) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
10) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

February 18,2025

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

Job	Truss	Truss Type	Qty	Ply	Lot 20 Turlington Acres	
J0425-1940	F07	Floor	1	1	Job Reference (optional)	I71465855

Comtech, Inc, Fayetteville, NC - 28314,

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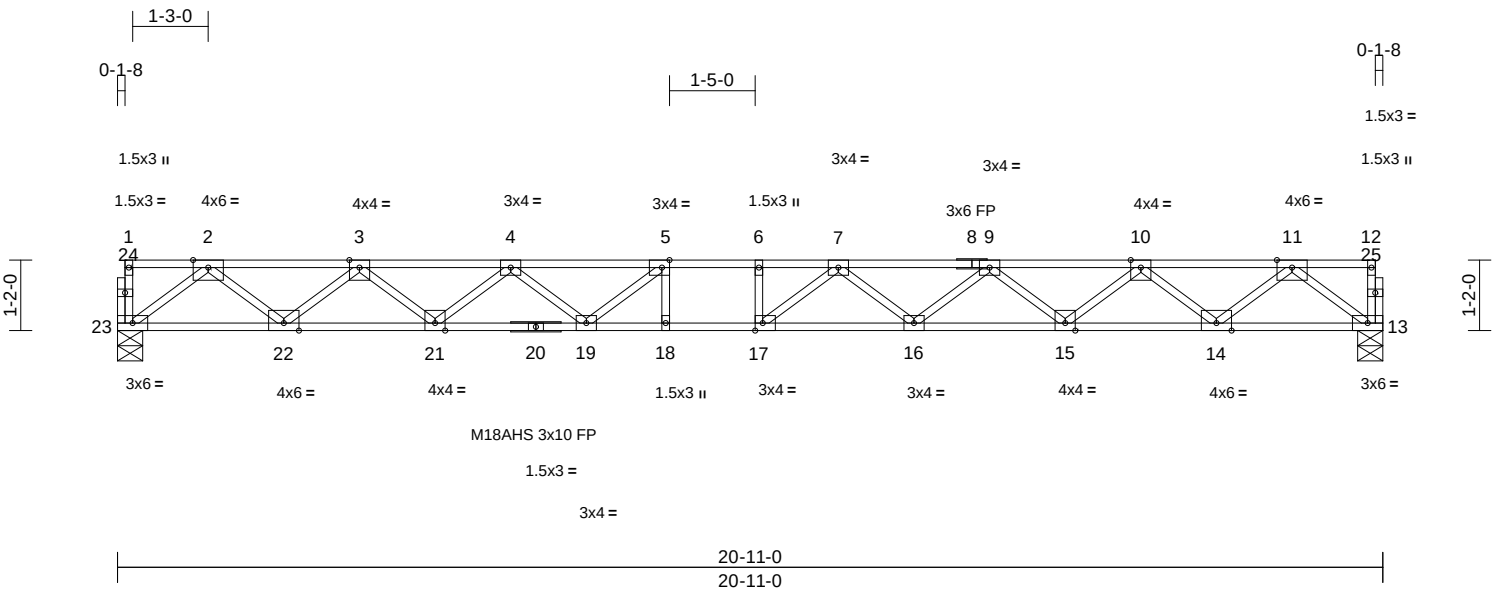

Scale = 1:38.1

Plate Offsets (X, Y): [5:0-1-8,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	0.42	Vert(LL)	-0.43	16-17	>574	360	M18AHS	186/179
TCDL	10.0	Lumber DOL	1.00	BC	0.63	Vert(CT)	-0.60	16-17	>417	240	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.64	Horz(CT)	0.09	13	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 104 lb	FT = 20%F, 11%E

LUMBER

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

BRACING

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

REACTIONS (size) 13=0-5-0, 23=0-5-0
Max Grav 13=1130 (LC 1), 23=1130 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-23=-39/0, 12-13=-39/0, 1-2=-2/0, 2-3=-2464/0, 3-4=-4166/0, 4-5=-5199/0, 5-6=-5583/0, 6-7=-5583/0, 7-9=-5205/0, 9-10=-4164/0, 10-11=-2464/0, 11-12=-2/0
BOT CHORD 22-23=0/1425, 21-22=0/3469, 19-21=0/4831, 18-19=0/5583, 17-18=0/5583, 16-17=0/5531, 15-16=0/4836, 14-15=0/3468, 13-14=0/1426
WEBS 11-13=-1786/0, 2-23=-1785/0, 11-14=0/1351, 2-22=0/1351, 10-14=-1307/0, 3-22=-1309/0, 10-15=0/907, 3-21=0/907, 9-15=-875/0, 4-21=-866/0, 9-16=0/480, 4-19=0/607, 7-16=-464/0, 5-19=-742/11, 7-17=-328/521, 5-18=-130/206, 6-17=-198/78

NOTES

1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) The Fabrication Tolerance at joint 20 = 11%
4) Plates checked for a plus or minus 1 degree rotation about its center.
5) All bearings are assumed to be SP 2400F 2.0E crushing capacity of 805 psi.
6) One RT3A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 23 and 13. This connection is for uplift only and does not consider lateral forces.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

February 18,2025

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

Job	Truss	Truss Type	Qty	Ply	Lot 20 Turlington Acres	I71465856
J0425-1940	F08	Floor	1	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Mon Feb 17 13:11:30 Page: 1
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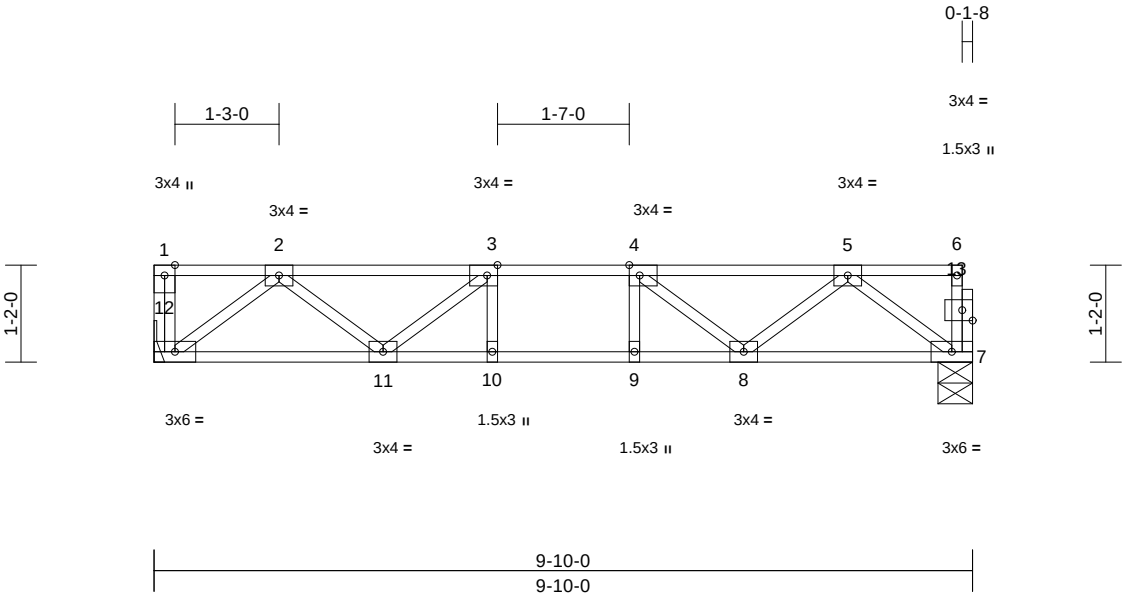


Scale = 1:27.7

Plate Offsets (X, Y): [3:0-1-8,Edge], [4:0-1-8,Edge], [13:0-1-8,0-1-8]

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	0.24	Vert(LL)	-0.04	8-9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.36	Vert(CT)	-0.05	8-9	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.19	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 51 lb	FT = 20%F, 11%E

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

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

REACTIONS (size) 7=0-5-0, 12= Mechanical
Max Grav 7=521 (LC 1), 12=527 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-12=-36/0, 6-7=-31/0, 1-2=0/0, 2-3=-929/0, 3-4=-1207/0, 4-5=-928/0, 5-6=-2/0
BOT CHORD 11-12=0/633, 10-11=0/1207, 9-10=0/1207, 8-9=0/1207, 7-8=0/632
WEBS 5-7=-791/0, 2-12=-794/0, 5-8=0/385, 2-11=0/385, 4-8=-387/0, 3-11=-386/0, 3-10=-77/99, 4-9=-77/98

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) Bearings are assumed to be: , Joint 7 SP No.1 crushing capacity of 565 psi.
5) Refer to girder(s) for truss to truss connections.
6) One RT3A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 7. This connection is for uplift only and does not consider lateral forces.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

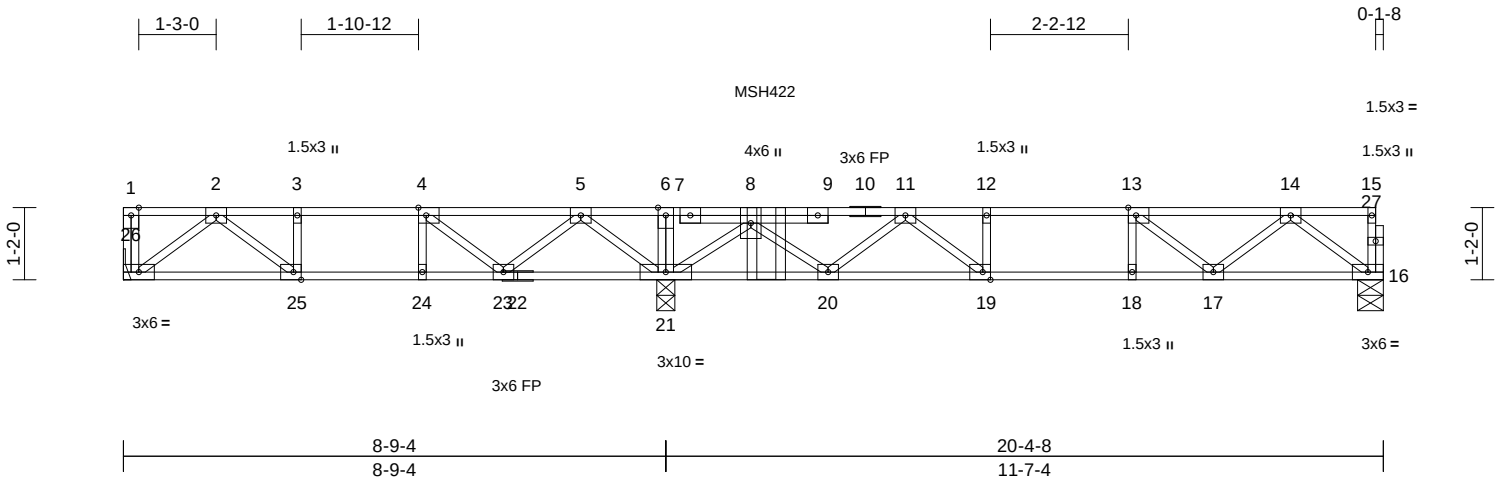
February 18,2025

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

Job	Truss	Truss Type	Qty	Ply	Lot 20 Turlington Acres	
J0425-1940	FG-1	Floor Girder	1	1	Job Reference (optional)	I71465857

Comtech, Inc, Fayetteville, NC - 28314,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Mon Feb 17 13:11:30 ID:SKV9oiLgyI9uzwKdZt3sBdzmHn1-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:37.3

Plate Offsets (X, Y): [4:0-1-8,Edge], [13:0-1-8,Edge], [19:0-1-8,Edge], [25:0-1-8,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.45	Vert(LL)	-0.07	19-20	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.43	Vert(CT)	-0.08	19-20	>999	240		
BCLL	0.0	Rep Stress Incr	NO	WB	0.38	Horz(CT)	0.02	16	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 105 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 (size) 16=0-5-0, 21=0-3-8, 26= Mechanical
Max Grav 16=591 (LC 7), 21=1672 (LC 8), 26=383 (LC 10)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-26=-56/0, 15-16=-39/0, 1-2=0/0, 2-3=-617/95, 3-4=-617/95, 4-5=-266/351, 5-6=0/1268, 6-8=0/1269, 8-11=-923/0, 11-12=-1513/0, 12-13=-1513/0, 13-14=-1110/0, 14-15=-2/0
BOT CHORD	25-26=0/414, 24-25=-95/617, 23-24=-95/617, 21-23=-566/0, 20-21=-44/455, 19-20=0/1318, 18-19=0/1513, 17-18=0/1513, 16-17=0/714
WEBS	6-21=-178/0, 8-21=-1639/0, 14-16=-892/0, 8-20=0/639, 14-17=0/516, 11-20=-588/0, 13-17=-515/0, 11-19=0/446, 12-19=-204/0, 13-18=-52/68, 5-21=-908/0, 2-26=-519/0, 5-23=0/577, 2-25=-126/260, 4-23=-627/0, 3-25=-140/57, 4-24=0/121

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) Bearings are assumed to be: , Joint 21 SP No.1 crushing capacity of 565 psi, Joint 16 SP No.1 crushing capacity of 565 psi.
5) Refer to girder(s) for truss to truss connections.
6) One RT3A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 21 and 16. This connection is for uplift only and does not consider lateral forces.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.
9) Use MiTek MSH422 (With 10d nails into Girder & 6-10d nails into Truss) or equivalent at 10-4-12 from the left end to connect truss(es) to front face of top chord.
10) Fill all nail holes where hanger is in contact with lumber.
11) 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 (lb/ft)
   Vert: 16-26=-10, 1-15=-100
   Concentrated Loads (lb)
   Vert: 8=-301 (F)

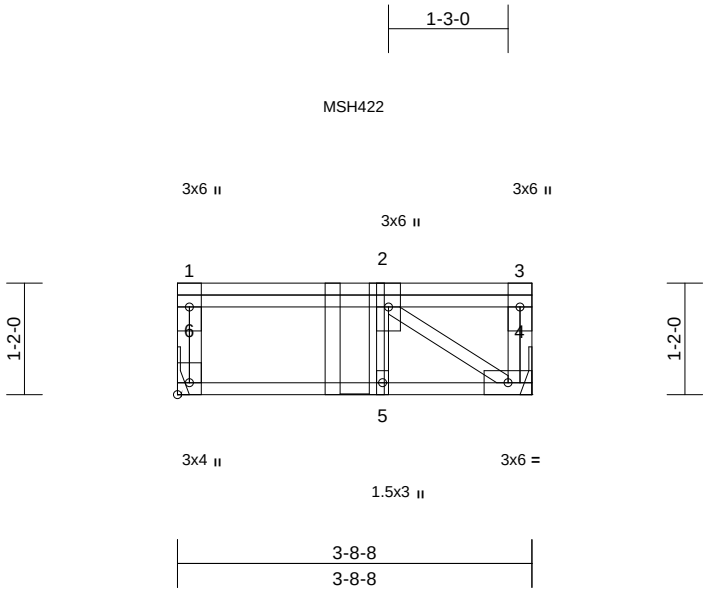
February 18,2025

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

Job	Truss	Truss Type	Qty	Ply	Lot 20 Turlington Acres
J0425-1940	FG-3	Floor Girder	1	1	I71465858
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Mon Feb 17 13:11:30 ID:B?VVGpkl8kcAD7YL5Hjz6nzmHrh-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:24.1

Plate Offsets (X, Y): [6: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	0.81	Vert(LL)	-0.09	5-6	>472	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.55	Vert(CT)	-0.12	5-6	>351	240		
BCLL	0.0	Rep Stress Incr	NO	WB	0.02	Horz(CT)	0.00	4	n/a	n/a		
BCDL	5.0	Code	IRC2021/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 3-8-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 4= Mechanical, 6= Mechanical
Max Grav 4=486 (LC 4), 6=401 (LC 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-6=-339/0, 3-4=-406/0, 1-2=0/0, 2-3=0/0
BOT CHORD 5-6=0/0, 4-5=0/0
WEBS 2-5=-107/0, 2-4=0/0

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 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) Use MiTek MSH422 (With 10d nails into Girder & 6-10d nails into Truss) or equivalent at 1-10-4 from the left end to connect truss(es) to back face of top chord.
6) Fill all nail holes where hanger is in contact with lumber.
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

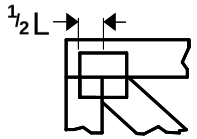
LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 4-6=-10, 1-3=-100
Concentrated Loads (lb)
Vert: 2=-427 (B)

February 18,2025

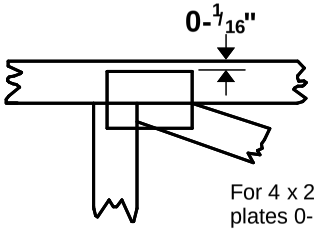
ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

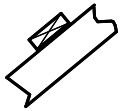
* Plate location details available in MiTek software or upon request.

PLATE SIZE

4 x 4

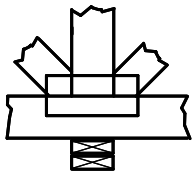
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

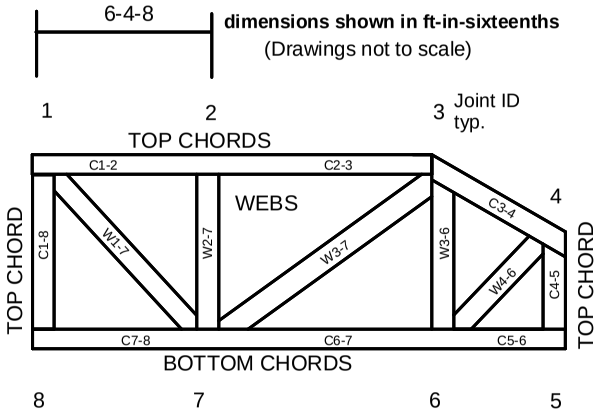


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-22: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & 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-1988, ESR-2362, ESR-2685, ESR-3282
ESR-4722, ESL-1388

Design General Notes

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

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

MiTek®

ENGINEERING BY TRENCO
A MiTek Affiliate

MiTek Engineering Reference Sheet: MII-7473 rev. 1/2/2023

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.