

RE: 2411-0320-A - Cooper III Rev.4-Floor

Site Information:

Address:

Project Customer: DRB Raleigh Project Name: DRB Raleigh Model Track Lot/Block: Subdivision: Model: Cooper III Rev.4

Trenco 818 Soundside Rd Edenton, NC 27932

State: NC

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

Design Code: IRC2021/TPI2014 Wind Code: ASCE 7-16 Wind Speed: 120 mph Roof Load: 40.0 psf Mean Roof Height (feet): 25

Design Program: MiTek 20/20 8.8 Design Method: MWFRS (Envelope)/C-C hybrid Wind ASCE 7-16 Floor Load: N/A psf

Exposure Category: B

No.	Seal#	Truss Name	Date
1 2 3 4 5 6 7 8 9	I71190822 I71190823 I71190824 I71190826 I71190826 I71190827 I71190828 I71190829	2FGR5 2FGR2 2FGR4 2F1A 2F1C 2F1 2F1B 2FGR1 2FGR1 2F2GE	2/5/25 2/5/25 2/5/25 2/5/25 2/5/25 2/5/25 2/5/25 2/5/25 2/5/25
10 11 12 13 14	I71190831 I71190832 I71190833 I71190834 I71190835	2F2 2F4A 2F4 2FGR3 2F3GE 2F3A	2/5/25 2/5/25 2/5/25 2/5/25 2/5/25 2/5/25
16	171190836	2F3	2/5/25

The truss drawing(s) referenced above have been prepared by

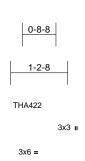
I russ Design Engineer's Name: Gagan, Iqbal My license renewal date for the state of North Carolina is December 31, 2025 IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified contraction designs comply with ANSI/TPI 1. These designs shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MITek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.

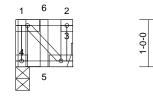


February 5,2025

Job	Truss	Truss Type	Qty	Ply	Cooper III Rev.4-Floor	
	2FGR5	Floor Girder	1	1	Job Reference (optional)	71190821

Run: 8.83 S Jan 17 2025 Print: 8.830 S Jan 17 2025 MiTek Industries, Inc. Tue Feb 04 08:37:08 ID:7M2UCuXSGMXYYHjSbhrkSbzqdNT-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1





3x6 =

3x3 II

Scale - 1.20.4

WEBS

Scale = 1:20.4												
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.32	Vert(LL)	-0.01	3-4	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.31	Vert(CT)	-0.01	3-4	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-P							Weight: 10 lb	FT = 20%F, 12%E
LUMBER			Vert: 1=	=-448 (B)								
TOP CHORD	2x4 SP No.2(flat)											
BOT CHORD	2x4 SP No.2(flat)											
WEBS	2x4 SP No.3(flat)											
BRACING												
TOP CHORD	Structural wood she	athing directly applie	ed or									
	1-2-8 oc purlins, ex	cept end verticals.										
BOT CHORD	Rigid ceiling directly	applied or 10-0-0 o	С									
	bracing.											
REACTIONS	(size) 3= Mecha	anical, 4=0-3-8										
	Max Grav 3=267 (L0	C 5), 4=501 (LC 1)										
FORCES	(lb) - Maximum Corr	pression/Maximum										
	Tension											
TOP CHORD	1-4=-496/0, 2-3=-26	3/0, 1-2=0/0										
BOT CHORD	3-4=0/0											

1-3=0/0 NOTES

1) Bearings are assumed to be: Joint 4 SP No.2 .

Refer to girder(s) for truss to truss connections. 2)

- This truss has been designed for a moving concentrated 3) load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
- 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.
- Use Simpson Strong-Tie THA422 (Single Chord Girder) 5) or equivalent at 0-4-6 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.
- In the LOAD CASE(S) section, loads applied to the face 7) of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Dead + Floor Live (balanced): Lumber Increase=1.00, 1) Plate Increase=1.00 Uniform Loads (lb/ft)

Vert: 3-4=-10, 1-2=-100

Concentrated Loads (lb)





818 Soundside Road

Edenton, NC 27932

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Job	Truss	Truss Type	Qty	Ply	Cooper III Rev.4-Floor	
	2FGR4	Floor Girder	1	1	Job Reference (optional)	171190823

Run: 8.82 E Sep 25 2024 Print: 8.820 E Sep 25 2024 MiTek Industries, Inc. Wed Feb 05 17:01:27 ID:Sju7bn5J95IrUe0sy2l8xizqdRv-uL9lkl2GppWYIJw7Hi6cyrLH7M?LuZhediuG6fzolu6

3x3 ш

1-0-0

Page: 1

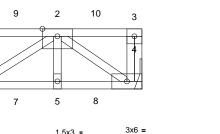
2-10-14

3x3 ш

1



1-0-0



3x6 = 1.5x3 u

4x6 =

Scale = 1:19

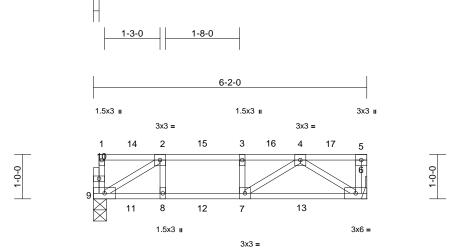
Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.39	Vert(LL)	-0.01	5-6	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.20	Vert(CT)	-0.01	5-6	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.10	Horz(CT)	0.00	4	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-P							Weight: 18 lb	FT = 20%F, 12%E
LUMBER			Concentra	ated Loads (lb)								
TOP CHORD	2x4 SP No.2(flat)		Vert: 1:	=-186 (F), 2=-172	(F)							
BOT CHORD	2x4 SP SS(flat)											
WEBS	2x4 SP No.3(flat)											
BRACING												
TOP CHORD		athing directly applie										
	· · · · · · · · · · · · · · · · · · ·	except end verticals										
BOT CHORD	Rigid ceiling directly bracing.	applied of 10-0-0 of	C									
REACTIONS	()	anical, 6=0-2-14										
	Max Grav 4=306 (L	,. ,										
FORCES	 (lb) - Max. Comp./M (lb) or less except w 	lax. Ten All forces	250									
TOP CHORD												
WEBS	2-6=-293/0, 2-4=-30											
NOTES	,	,										
	irder(s) for truss to tru	ss connections										
, 0	nechanical connection		0									
	late at joint(s) 6.	(-)	-									
3) This truss	has been designed fo	r a moving concentra	ated									
load of 25	0.0lb live and 3.0lb de	ad located at all mid										
	d at all panel points al											
	hord, nonconcurrent w		ds.								H C	111.
	end 2x6 strongbacks, c										1111110	A.D. 111
	oc and fastened to ead 3") nails. Strongbacks									(N'ATH U	ARO
	iter ends or restrained		alls							A	ON TO	and Inter
	or other connection d									3	A FES	Slower
	sufficient to support co		86							2	6	Val E
	t 0-1-8, and 172 lb do									2	4 CF	AL 7: =
chord. Th	ne design/selection of s	such connection devi	ice							2	: 01	
	responsibility of others									-	114	77 : =
	AD CASE(S) section, I		ace							=		1 - Z
	s are noted as front (F) or back (B).								In the second second second	5.0	2:23
LOAD CASE	. ,									1	S VGI	VEE TS
	Floor Live (balanced):	Lumber Increase=1.0	00,							1	A	J. G.N
	crease=1.00										11X HI	Grin
	Loads (lb/ft) 4-6=-7, 1-3=-67										Min H.F	in the
Vent. 4	+-0=-7, 1-3=-07											
											Februa	ry 5,2025
											1	
			THIS AND INCLUDED MITEK								ENGINEEI	RING BY
Design v	valid for use only with MiTek	® connectors. This design	is based only upon paramete	rs shown, and is for an	individual bu	uilding componer	nt, not				" DE	'NCO

Design valid for use only with MITeK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)

A MiTek Affiliate

Job	Truss	Truss Type	Qty	Ply	Cooper III Rev.4-Floor	
	2F1C	Floor	2	1	Job Reference (optional)	171190825

Run: 8.83 S Jan 17 2025 Print: 8.830 S Jan 17 2025 MiTek Industries, Inc. Tue Feb 04 08:37:04 ID:5yVyrePBLuhom1k6gHl?guzqdSn-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





0-1-8

Scale = 1:21.6

3x6 =

Loading	(psf)	Spacing	1-4-0	csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.40	Vert(LL)	-0.13	6-7	>556	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.90	Vert(CT)	-0.14	6-7	>510	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00	6	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 31 lb	FT = 20%F, 12%E

LUMBER

TOP CHORD BOT CHORD WEBS OTHERS	2x4 SP No.2(flat) 2x4 SP No.2(flat) 2x4 SP No.3(flat) 2x4 SP No.3(flat)	
	2x4 SP No.3(flat)	
BRACING		
TOP CHORD	Structural wood sheathing directly applied 6 6-0-0 oc purlins, except end verticals.	or
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.	
REACTIONS	(size) 6= Mechanical, 9=0-3-8	
REACTIONS	(size) 6= Mechanical, 9=0-3-8 Max Grav 6=312 (LC 24), 9=311 (LC 21)	
REACTIONS FORCES		
	Max Grav 6=312 (LC 24), 9=311 (LC 21) (lb) - Maximum Compression/Maximum	
FORCES	Max Grav 6=312 (LC 24), 9=311 (LC 21) (Ib) - Maximum Compression/Maximum Tension	
FORCES	Max Grav 6=312 (LC 24), 9=311 (LC 21) (lb) - Maximum Compression/Maximum Tension 1-9=-256/39, 5-6=-259/20, 1-2=-18/3,	
FORCES TOP CHORD	Max Grav 6=312 (LC 24), 9=311 (LC 21) (lb) - Maximum Compression/Maximum Tension 1-9=-256/39, 5-6=-259/20, 1-2=-18/3, 2-3=-413/0, 3-4=-413/0, 4-5=0/0	

0-3-9

NOTES

1) Unbalanced floor live loads have been considered for this design.

2) Bearings are assumed to be: Joint 9 SP No.2.

3) Refer to girder(s) for truss to truss connections.

- 4) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

ECAD CASE(S) Standard



Page: 1

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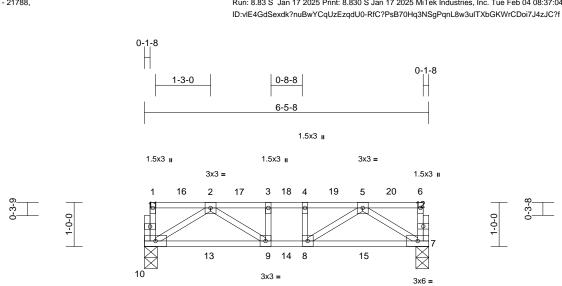


Job	Truss	Truss Type	Qty	Ply	Cooper III Rev.4-Floor	
	2F1B	Floor	7	1	Job Reference (optional)	171190827

Run: 8.83 S Jan 17 2025 Print: 8.830 S Jan 17 2025 MiTek Industries, Inc. Tue Feb 04 08:37:04

1.5x3 =







1.5x3 =



3x6 =

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.34	Vert(LL)	-0.10	9-10	>777	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.81	Vert(CT)	-0.10	9-10	>732	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.00	7	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 34 lb	FT = 20%F, 12%E

3x3 =

LIMBER

LUMBER		
TOP CHORD	2x4 SP N	o.2(flat)
BOT CHORD	2x4 SP N	o.2(flat)
WEBS	2x4 SP N	o.3(flat)
OTHERS	2x4 SP N	o.3(flat)
BRACING		
TOP CHORD	Structura	wood sheathing directly applied or
	6-0-0 oc p	ourlins, except end verticals.
BOT CHORD	Rigid ceil	ing directly applied or 10-0-0 oc
	bracing.	
REACTIONS	(size)	7=0-3-8, 10=0-3-8
	Max Grav	7=314 (LC 26), 10=314 (LC 23)
FORCES	(lb) - Max	imum Compression/Maximum
	Tension	·
TOP CHORD	1-10=-260	0/16, 6-7=-260/16, 1-2=-19/1,
	2-3=-512/	0, 3-4=-512/0, 4-5=-512/0,
	5-6=-19/1	
BOT CHORD	9-10=0/37	78, 8-9=0/512, 7-8=0/378
WEBS		/0, 2-10=-448/0, 5-8=-82/303,
	2-9=-82/3	03, 3-9=-183/159, 4-8=-183/159
NOTES		

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- All bearings are assumed to be SP No.2 . 2)
- This truss has been designed for a moving concentrated 3) load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
- 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.

LOAD CASE(S) Standard



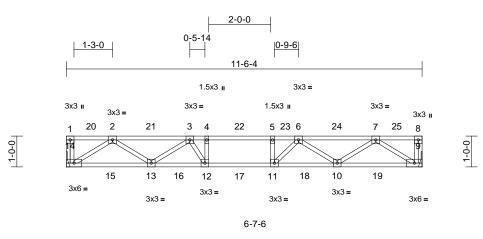
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and PCB Building Component Science Michael Component Advancing Component Advancing Component Advancing and PCB and Component Advancing Component Compone and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

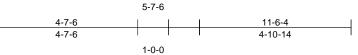


Job	Truss	Truss Type	Qty	Ply	Cooper III Rev.4-Floor	
	2F4A	Floor	1	1	Job Reference (optional)	171190831

Run: 8.83 S Jan 17 2025 Print: 8.830 S Jan 17 2025 MiTek Industries, Inc. Tue Feb 04 08:37:06 ID:YfCBG6MgZ2mXt8fmmlbSuezqdNh-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f







1-0-0

Scale = 1:34.3

TC TC BC	ading ELL EDL ELL EDL	(psf) 40.0 10.0 0.0 5.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	1-7-3 1.00 1.00 YES IRC2021/TPI2014	CSI TC BC WB Matrix-S	0.57 0.81 0.23	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.11 -0.13 0.02	(loc) 10-11 10-11 9	l/defl >999 >999 n/a	L/d 480 360 n/a	PLATES MT20 Weight: 57 lb	GRIP 244/190 FT = 20%F, 12%E
LU TC BC WE BF TC BC	MBER P CHORD DT CHORD EBS ACING P CHORD DT CHORD	2x4 SP No.2(flat) 2x4 SP No.2(flat) 2x4 SP No.3(flat) Structural wood she: 6-0-0 oc purlins, exc Rigid ceiling directly bracing.	cept end verticals. applied or 10-0-0 oc	d or									
RE	ACTIONS	(size) 9= Mecha Max Grav 9=496 (LC	nical, 14= Mechanica C 1) 14=496 (I C 1)	al									
FO	RCES	(lb) - Maximum Com	,. , ,										
тс	P CHORD	Tension 1-14=-259/29, 8-9=-2 2-3=-1105/0, 3-4=-15 5-6=-1557/0, 6-7=-1	557/0, 4-5=-1557/0,										
BC	T CHORD	13-14=0/714, 12-13=	=0/1473, 11-12=0/15	57,									
WE	EBS	10-11=0/1465, 9-10= 4-12=-269/234, 5-11 2-13=0/489, 3-13=-4 7-9=-848/0, 7-10=0/4 6-11=-248/326	=-207/161, 2-14=-84 49/40, 3-12=-300/37										
NC	DTES												
1)		ed floor live loads have	been considered for									WHIT C	
2)	this desigr Refer to gi	n. irder(s) for truss to trus	s connections.									"att C	ARO
3)	This truss load of 250	has been designed for 0.0lb live and 3.0lb dea	r a moving concentra ad located at all mid									VIAFS	SION
		d at all panel points alc ord, nonconcurrent wi									1	A ON	7
4)	Recomme	nd 2x6 strongbacks, o	n edge, spaced at								Ξ	SE/	· · · · · · · · · · · · · · · · · · ·
		bc and fastened to eac 3") nails. Strongbacks		alls							-	114	// <u>:</u> E
		ter ends or restrained l									3-	5	a1>3

LOAD CASE(S) Standard

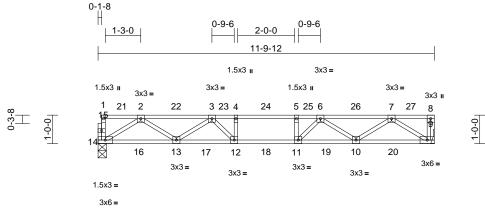
February 5,2025

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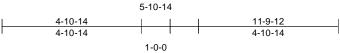


Job	Truss	Truss Type	Qty	Ply	Cooper III Rev.4-Floor	
	2F4	Floor	3	1	Job Reference (optional)	171190832

Run: 8.83 S Jan 17 2025 Print: 8.830 S Jan 17 2025 MiTek Industries, Inc. Tue Feb 04 08:37:06 ID:mJ8uuxegTwKvl3eQps1c?CzqdOc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



6-10-14



1-0-0

Scale = 1:34.3

Scale = 1:34.3												
Loading TCLL TCDL BCLL BCDL	(psf) 40.0 10.0 0.0 5.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	1-7-3 1.00 1.00 YES IRC2021/TPI2014	CSI TC BC WB Matrix-S	0.58 0.81 0.24	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.11 -0.14 0.02	(loc) 10-11 10-11 9	l/defl >999 >999 n/a	L/d 480 360 n/a	PLATES MT20 Weight: 58 lb	GRIP 244/190 FT = 20%F, 12%E
LUMBER TOP CHORD BOT CHORD	2x4 SP No.2(flat) 2x4 SP No.2(flat)					I						
WEBS OTHERS BRACING	2x4 SP No.3(flat) 2x4 SP No.3(flat) 2x4 SP No.3(flat)											
TOP CHORD	Structural wood she 6-0-0 oc purlins, ex Rigid ceiling directly	cept end verticals.										
	bracing. (size) 9= Mecha Max Grav 9=509 (L0	anical, 14=0-3-8 C 1), 14=504 (LC 1)										
FORCES	(lb) - Maximum Com Tension	npression/Maximum										
TOP CHORD	1-14=-259/34, 8-9=- 2-3=-1144/0, 3-4=-1 5-6=-1639/0, 6-7=-1	639/0, 4-5=-1639/0,										
BOT CHORD	13-14=0/735, 12-13 10-11=0/1522, 9-10	=0/1523, 11-12=0/16	639,									
WEBS	4-12=-218/153, 5-11	1=-218/154, 2-14=-8 463/18, 3-12=-235/3	,									
NOTES	d fla an line la a da la an		_									
this design	ed floor live loads have n.	e been considered to	ſ								" DAM	ARO
3) Refer to gi	are assumed to be: Jo rder(s) for truss to trus has been designed fo	ss connections.	ated							in in	20 FES	STONE
panels and Bottom Ch	0.0lb live and 3.0lb de d at all panel points al ord, nonconcurrent w	ong the Top Chord a ith any other live load									Q SE 114	AL 7
	nd 2x6 strongbacks, c oc and fastened to eac 3") nails. Strongbacks	ch truss with 3-10d to be attached to w	alls								SE SE SE	AL 77
	ter ends or restrained , Do not erect truss ba S) Standard									11	11 HA	GAN
											min	mm.

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Job	Truss	Truss Type	Qty	Ply	Cooper III Rev.4-Floor	
	2FGR3	Floor Girder	1	1	Job Reference (optional)	171190833

Run: 8.83 S Jan 17 2025 Print: 8.830 S Jan 17 2025 MiTek Industries, Inc. Tue Feb 04 08:37:07 ID:8u6KLWxnGopkdWK_aqSiqmzqdMx-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

1-0-0

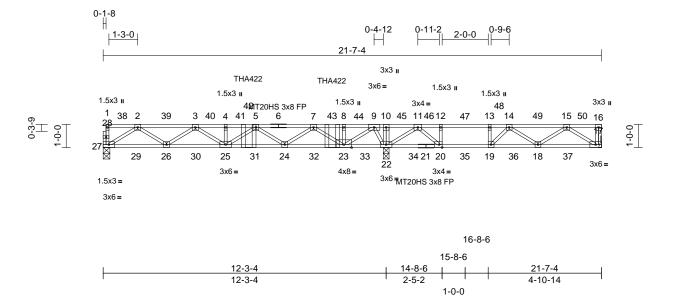




Plate Offsets (X, Y): [20:0-1-8,Edge]

	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				1								
Loading	(psf)	Spacing	1-7-3		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00		тс	0.88	Vert(LL)	-0.11	. ,	>964	480	MT20HS	187/143
TCDL	10.0	Lumber DOL	1.00		BC	0.96	Vert(CT)	-0.15	18-19	>725	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	NO		WB	0.55	Horz(CT)	0.03	17	n/a	n/a		
BCDL	5.0	Code		1/TPI2014	Matrix-S		- (- /					Weight: 108 lb	FT = 20%F, 12%E
			2)			مانده ممامر	omuloo indio	منمط					
			3)	•	e 3x3 (=) MT20 ι								
TOP CHORD	()		4)	SP No.2 .	e assumed to be:	Joint 27 3	5P NO.2 , JO	int 22					
BOT CHORD			5)		er(s) for truss to	truce conr	actions						
WEBS	2x4 SP No.3(flat)		6)		as been designed			trated					
OTHERS	2x4 SP No.3(flat)		0)		blb live and 3.0lb								
BRACING	•				at all panel points								
TOP CHORD	6-0-0 oc purlins, ex	eathing directly applie	ed or		d, nonconcurrent								
BOT CHORD		y applied or 6-0-0 oc	7)	Recommend	2x6 strongbacks	s, on edge	e, spaced at						
BOT ONORD	bracing.				and fastened to								
REACTIONS	0	hanical, 22=0-3-0,		•) nails. Strongba			walls					
	27=0-3-8		-, 8)		ends or restrain to not erect truss								
	Max Grav 17=382 (LC 4), 22=1163 (LC	7), 0)		n Strong-Tie THA			rdor)					
	27=567 (LC 8)	9)		t spaced at 3-7-8								
FORCES	()	npression/Maximum			end to 9-11-4 to		0						
	Tension			face of top c									
TOP CHORD	,	7=-260/30, 1-2=-18/3	· 10		oles where hange	er is in cor	ntact with lun	nber.					
	,	2038/0, 4-5=-2038/0,	· • • • • • • • • • • • • • • • • • • •) In the LOAD	CASE(S) section	n, loads a	pplied to the	face					
		556/147, 8-9=-556/14	47,	of the truss a	are noted as front	t (F) or ba	ck (B).						
	9-10=-16/1021, 10-	,	LC	DAD CASE(S)	Standard								
	11-12=-805/278, 12		₁ , 1)	Dead + Flo	or Live (balanced	d): Lumbe	r Increase=1	1.00,					
BOT CHORD	,	I-15=-782/0, 15-16=0 δ=0/1801, 24-25=0/20		Plate Increa	ase=1.00	,							Um.
BOT CHOILD	23-24=0/1271, 22-2	,	037,	Uniform Lo	ads (lb/ft)							111110	AD III
	20-22=-581/352, 19			Vert: 17-	27=-8, 1-16=-80							N'ATH U	770,11,
	18-19=-89/946, 17-			Concentrat	ed Loads (lb)							01	A. A.
WEBS	,	9=-87/239, 2-27=-98	5/0,	Vert: 42=	=-133 (B), 43=-13	3 (B)					5	2.443	oto y -
	,	571/0, 3-25=-138/32	,								Ξ		No
	,	2=-773/0, 11-20=0/8	,								Ξ	19 05	1 F: E
	15-17=-639/0, 15-1	8=-24/412,									Ξ	SE/	AL ' 🗧
	14-18=-260/137, 14	1-19=-422/63,									Ξ	: 114	77 : E
	10-22=-287/36, 5-2	5=-257/234, 5-24=-5	517/4,								-	A	54 - E
		892/0, 8-23=-270/36	,										0125
	9-23=0/1150, 9-22=	-794/0									-19	Non	CET DE
NOTES											1	SE/ SE/ 114 OFFS SE/ 114 OFFS SE/ 114 OFFS	AL AT AL
,	ed floor live loads hav	e been considered fo	or								1	1.1.1.	GAIN
this desigr												11, T.A	
All plates	are MT20 plates unles	ss otherwise indicate	ed.									Mun A	mm.
												Februa	ry 5 2025

NOTES

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Job	Truss	Truss Type	Qty	Ply	Cooper III Rev.4-Floor		
	2F3GE	Floor Supported Gable	1	1	Job Reference (optional)	I71190834	
Structural, LLC, Thurmont, MD -	21788.	Run: 8.83 S Jan 17 2	2025 Print: 8.	830 S Jan 17	2025 MiTek Industries, Inc. Tue Feb 04 08:37:05	Page: 1	

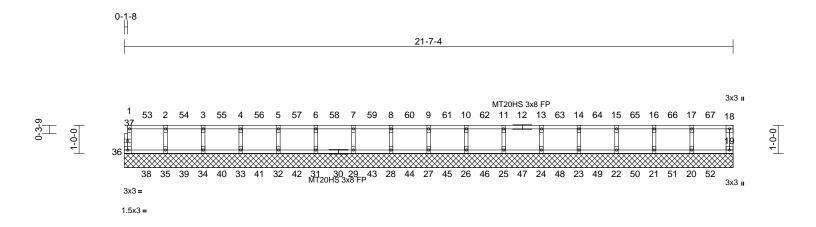
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February 5,2025

MOINEEDING

818 Soundside Road Edenton, NC 27932

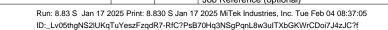


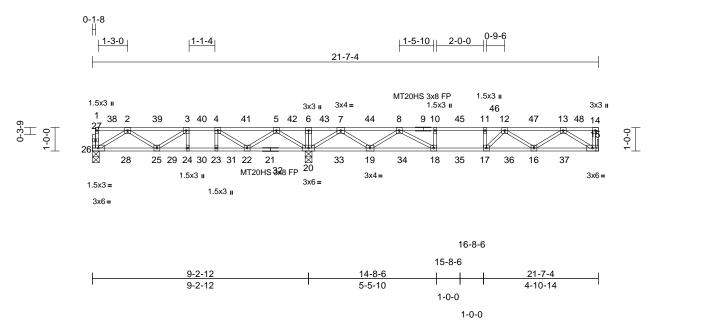
Scale = 1:41.6

CLL 40.0 Plate Grip DOL 1.00 TC 0.28 Vert(LL) n/a - n/a 999 MT20 24/190 CDL 0.00 Rep Stress Incr YES WB 0.05 Vert(TL) n/a - n/a 999 MT20 24/190 CDL 5.0 Code IRC2021/TPI2014 Matrix-R Vert(TL) n/a															
CLL 40.0 Plate Grp DOL 1.00 TC 0.28 VertILL n/a - n/a 999 MT20 244/190 CDL 0.0 Rep Stress Incr YES WB 0.02 VertILL n/a - n/a 999 MT20 244/190 MT20HS 187/143 CDL 5.0 Code IRC2021/TP12014 Matrix-R Matrix-R No 989 MT20 244/190 OP CHORD 244 SP No.3(fita) Structural wood sheathing directly applied or 6-0-0 or purins, except end verticals. Structural wood sheathing directly applied or 6-0-0 or purins, except end verticals. 927-272710, 532-272710, 7-23-272710, 7-23-272710, 1-22-22-273710, 1-22-22-273710, 1-22-22-273710, 1-22-22-273710, 1-22-22-273710, 1-22-22-273710, 1-22-22-273710, 1	Loading		(psf)	Spacing	1-7-3		csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
CDL 10.0 Lumber DOL 1.0.0 BC 0.28 VerTU n/a - n/a 989 MT20HS 187/143 CDL 5.0 Code FR FR 200 Horiz(TL) 0.00 19 n/a n/a<	TCLL		u ,					0.28			-			MT20	
CLL 0.0 Reg Stress Incr YES WB 0.05 Horiz(TL) 0.00 19 n/a n/a CDL 5.0 Code IRC2021/TPI2014 Matrix-R Matrix-R Weight: 85 lb FT = 20%,F, 12%E OP CHORD 2x4 SP No.2(flat) Solo (Code Solo	TCDL		10.0	Lumber DOL	1.00		BC	0.29		n/a	-	n/a	999	MT20HS	187/143
CDL 5.0 Code IRC2021/TPI2014 Matrix-R Weight: 85 lb FT = 20%F, 12%E UMBER OP CHORD 2x4 SP No.2(flat) OT CHORD 2x4 SP No.2(flat) S24 SP No.2(flat) BOT CHORD 5:36=-728, 324-328, 32-34=-34=-34, 34-34=-328, 31-34-28, 32-34=-34=-34, 34-34=-34, 34-34=-34, 34-34=-34, 34-34=-34, 34-34=-34-34, 34-34=-34-34, 34-34=-34-34, 34-34=-34-34, 34-34=-34-34, 34-34=-34-34, 34-34=-34-34, 34-34=-34-34, 34-34=-34-34, 34-34=-34-34, 34-34=-34-34, 34-34-34, 34-34, 34-34-34, 34-34, 34-34-34, 34-34-34, 34-34, 34-34, 34-34-34, 34-34, 34-34-34, 34-34-34, 34-34-34, 34-34-34, 34-34-34, 34-34, 34-34-34, 34-34-34, 34-34-34, 34-34, 34-34-34, 34-34-34, 34-34-34, 34-34-34, 34-34, 34-34, 34-34, 34-34, 34-34, 34-34, 34-34, 34-34-34, 34-34-34, 34-34, 34-34-34, 34-34-34, 34-34, 34-34-34, 34-	BCLL								. ,		19				
OP CHORD 2x4 SP No.2(flat) 32-33-3/28, 31-32-3/28, 27-38-3/28, 25-27-3/28, 27-28-3/28, 25-27-3/28, 27-28-3/28, 25-27-3/28, 27-28-3/28, 25-27-3/28, 27-28-3/28, 25-27-3/28, 27-28-3/28, 25-27-3/28, 27-28-3/28, 25-27-3/28, 27-28-3/28, 27-2/10, 17-28-27/10, 1	BCDL			1 1	IRC20	21/TPI2014	Matrix-R							Weight: 85 lb	FT = 20%F, 12%E
OP CHORD 2x4 SP No.2(flat) 32-33-3/28, 31-32-3/28, 27-38-3/28, 25-27-3/28, 27-28-3/28, 25-27-3/28, 27-28-3/28, 25-27-3/28, 27-28-3/28, 25-27-3/28, 27-28-3/28, 25-27-3/28, 27-28-3/28, 25-27-3/28, 27-28-3/28, 25-27-3/28, 27-28-3/28, 27-2/10, 17-28-27/10, 1							25.20. 2/20. 24	1.05 0/00	22.24 2/20						
OT CHORD (FBS) 2x4 SP No.2(flat) 28-29-328, 27-28-328, 24-28-328, 24-28-328, 22-28-328, 32-28-28-328, 32-28-328, 32-28-328, 32-28-328, 32-28-328, 32-28-328, 32			a (//lat)			BOICHORD									
TEBS 224 SP No.3(lia) 22-26-3/28, 22-28-3/28, 22-24-3/28, 3/28, 2-22/1, 4/23-272/10, 1-228-273/10, 3/34-227/10, 1-228-273/10, 3/34-272/10, 1-228-273/10, 2-223/10, 2-22-3/3/10, 2-22-2/3/10, 2-22/3/10, 2-															
THERS 2x4 SP No.3(ftal) 22-23-3/28, 20-21=-3/28, 10-21-3/28, 11-20-3/28 RACING Structural wood sheathing directly applied or 0 ⁻ CO co purifis, except end verticals. 19-203/28 GOP CHORD Structural wood sheathing directly applied or 0 ⁻ CO co purifis, except end verticals. 92-27-272/10, 8-28-272/10, 7-29-273/10, -23-272/10, 10-26-272/10, -23-28-272/10, 10-26-272/10, 10-26-272/10, 10-26-272/10, 10-26-272/10, 12-28-272/10, 15-22-273/10, -11-25-272/10, 15-22-273/10, -11-25-272/10, 15-22-273/10, -11-25-272/10, 15-22-273/10, -11-25-272/10, 15-22-273/10, -11-25-272/10, 15-22-273/10, -11-25-272/10, 15-22-273/10, -11-25-272/10, 15-22-273/10, -11-25-272/10, 15-22-273/10, -11-25-272/10, 15-22-273/10, -11-25-272/10, 15-22-273/10, -11-25-272/10, 15-22-273/10, -11-25-272/10, 15-22-273/10, -11-25-272/10, 15-22-273/10, -11-25-272/10, 15-22-273/10, -11-25-272/10, 15-22-273/10, -11-25-272/10, 15-22-273/10, -11-25-28, 11C 43), 34-21-7-4, 33-21-7-23, 10-20-20-20, 10-20-20, 10-20-20, 10-20-20, 10-20-20, 10-20-20, 10-20-20, 1			. ,				,	,	,						
RACING OP CHORD Structural wood sheathing directly applied or 6-0-0 oc bracing. 19-203/28 VEBS 9-27-272/10, 7-29272/10, 7-29272/10, 1-33273/10, 10-26272/10, 13-24-28, 1L-30, 10-2428, 1L-30, 10-2428, 1L-30, 10-2428, 1L-30, 10-2428, 1L-30, 10-2428, 1L-30, 12-2428, 1L-30, 12-2428, 1L-30, 12-2428, 1L-30, 12-24-28, 1L-30, 12-24-24, 12-24-24, 12-24, 12-24, 12-24, 12-24, 12-24, 12-24, 12-24, 12-			. ,				,	,	,						
OP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. 9-27=-272/10, 8-28=-272/10, 5-32=-272/10, 6-33=-272/10, 5-32=-272/10, 5-22=-272/10,		2,401 10	5.5(nat)				,	,	,						
6-0-0 co purifins, except on verticals. 6-31=272/10, 4-33=-272/10, -33=-32/10, -33=-32		Structural	wood she	athing directly applie	ad or	WEBS	9-27=-272/10, 8	8-28=-272/1	0, 7-29=-272	/10,					
OT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. 3-34=-272/10, 10-26=-272/10, 11-26=-272/10, 11-26=-272/10, 11-26=-272/10, 15-22=-273/10, 11-26=-272/10, 15-22=-273/10 EACTIONS (size) 19=21-7-4, 21=21-7-4, 24=21-7-4, 25=-21-7-4, 23=21-7-4, 32=2285, 1C 663, 32=285, 1C 663, 32=285, 1C 663, 33=285, 1C 663, 32=283, 34=283, 34=283, 34=283, 34=283, 34=283, 34=283, 34=283, 34=283							6-31=-272/10, 5	5-32=-272/1	0, 4-33=-273	/10,					
bracing. 11-25=-272710, 13-24=-272710, 15-22=-273710, 14-23=-272710, 15-22=-273710, 16-21=-272710, 15-22=-273710, 17-228-220, 25-215, 16-22, 25, 16-25, 17, 14=-280, 11-2=-283, 16-17=-283, 10-00-02, 12=12, 12=-284, 12=-284, 10-00-02, 12=12, 12=-284, 12=-284, 10-00-00, 12=12, 12=-284, 12=-284, 12=-284, 10-00-00, 12=12, 12=-284, 12=-284, 12=-284, 12=-284, 10-00-00, 12=12, 12=-284, 12=-284, 12=-284, 12=-284, 12=-284, 12=-284, 12=-284, 12=-284, 1	BOT CHORD						3-34=-272/10, 2	2-35=-273/1	0, 10-26=-27	2/10,					
EACTIONS (size) 19=21-7-4, 22=21-7-4, 27=21-7-4, 25=21-7-4, 25=21-7-4, 25=21-7-4, 27=21-7-4, 25=21-7-4, 27=21-7-4, 25=21-7-4, 27=21-7-4, 25=21-7-4, 23=21-							,		,						
22=217-4, 23=217-4, 24=217-4, 25=217-4, 25=217-4, 21=217-4, 32=217-4, 33=217-4, 31=217-4, 32=217-4, 33=217-4, 31=217-4, 32=215 (LC 63), 22=285 (LC 63), 32=285 (LC 64), 28=285 (LC 63), 32=285 (LC 64), 28=285 (LC 65), 32=285 (LC 64), 32=285 (LC 57), 32=285 (LC 64), 32=285 (LC 64), 32=285 (LC 65), 32=285 (LC 64), 32=285 (LC 64	REACTIONS	(size)	19=21-7-4	4. 20=21-7-4. 21=21	-7-4.										
20=211-74, 29=21-74, 31=217-74, 33=217-74, 32=374, 33=217-74, 32=374, 33=217-74, 32=374, 33=217-74, 33=217-74, 32=374, 33=217-74, 32=374, 34=217-74, 32=374, 34=217-74, 33=217-74, 32=374, 34=217-74, 32=374, 34=217-74, 32=374, 34=217-74, 32=374, 34=217-74, 32=374, 34=217-74, 32=374, 34=217-74, 32=374, 34=217-74, 32=374, 34=217-74, 32=374, 34=217-74, 32=374, 34=217-74, 34=217, 34=217, 34=217-74, 34=217, 34=217-74, 34=217-74, 34=217-74, 34=217-74, 34=217-74, 34=217-74, 34=217-74, 34=217-74, 34=217-74, 34=217-74, 34=217-74, 34=217-74, 34=217-74, 34=217-74, 34=217-74, 34=21					-7-4,		16-21=-272/10,	17-20=-27	3/10						
32=217-7.4, 33=217-7.4, 34=217-7.4 2) All plates are 1.5x3 () MT20 unless otherwise indicated. Max Uplift 19=-8 (LC 43), 34=-3 (LC 53), 28=-3 (LC 43), 34=-3 (LC 38), 36=-9 (LC 39) 3) Gable requires continuous bottom chord bearing. Max Grav 19=268 (LC 70), 20=286 (LC 60), 21=285 (LC 66), 22=285 (LC 66), 24=285 (LC 66), 33=285 (LC 60), 31=285 (LC 57), 34=285 (LC 60), 31=285 (LC 57), 34=285 (LC 57), 34=285 (LC 56), 33=286 (LC 57), 34=285 (LC 61), 23=285 (LC 61), 23=285 (LC 57), 34=285 (LC 59), 33=286 (LC 57), 34=286 (LC 53), 32=286 (LC 57), 34=286 (LC 53), 32=286 (LC 57), 34=286 (LC 53), 32=286 (LC 57), 34=286 (LC 53), 32=286 (LC 57), 34=286 (LC 53), 32=286 (LC 53),			25=21-7-4	4, 26=21-7-4, 27=21	-/-4,										
d3=21-7.4, 36=21-7.4 indicated. Max Uplift 19=8 (LC 52), 21=-3 (LC 53), 28=-3 (LC 39) Gable requires continuous bottom chord bearing. Max Grav 19=268 (LC 70), 20=286 (LC 69), 21=285 (LC 66), 22=285 (LC 67), 23=285 (LC 66), 22=285 (LC 66), 32=285 (LC 66), 32=285 (LC 56), 32=286 (LC 55), 32=286 (LC 52), 32=283 (LC 56), 32=286 (LC 55), 32=283 (LC 56),					77,	/ !				d.					
 Max Uplit 19=8 (LC 52), 21=3 (LC 53), 34=3 (LC 43), 32=28 (LC 64), 24=28 (LC 65), 32=28 (LC 64), 24=28 (LC 56), 32=28 (LC 63), 27=28 (LC 64), 24=28 (LC 56), 32=28 (LC 65), 34=28 (LC 56), 32=28 (LC 65), 34=28 (LC 56), 35=28 (LC 55), 34=28 (LC 56), 35=28 (LC 56),					-7-4,		are 1.5x3 () MT2	0 unless o	inerwise						
 All bearings are assumed to be SP No.2. N/A 							uiros continuous h	ottom chor	d boaring						
 braced against lateral movement (i.e. diagonal web). braced against lateral movement (i.e. diagonal web). braced against lateral movement (i.e. diagonal web). clable studs spaced at 1-4-0 oc. clable studs spaced at 10-00 old of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads. present the complexity of the outer onds or restrained by other means. cloble clable study of the outer ends or restrained by other means. cloble clable study of the outer ends or restrained by other means. cloble clable study of the outer ends or restrained by other means. cloble clable study of the outer ends or restrained by other means. cloble clable study of the outer ends or restrained by other means. cloble clable study of the outer ends or restrained by other means. cloble clable study of the outer ends or restrained by ot					,										
Max Grav 19=268 (LC 70), 20=286 (LC 69), 21=285 (LC 68), 22=285 (LC 67), 23=285 (LC 66), 24=285 (LC 65), 25=285 (LC 66), 24=285 (LC 65), 27=285 (LC 60), 31=285 (LC 59), 33=285 (LC 58), 33=285 (LC 57), 34=285 (LC 58), 33=285 (LC 57), 34=285 (LC 56), 35=286 (LC 55), 35=286 (LC 50), 35=286 (LC 55), 35=286 (LC 50), 35=286 (LC 55), 35=286 (LC 54) 8) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads. OP CHORD 1-36=-259/16, 18-19=-263/16, 1-2=-28/3, 6-7=-28/3, 7-8=-28/3, 18-12=-28/3, 10-11=-28/3, 11-13=-28/3, 10-11=-28/3, 11-13=-28/3, 11-15=-28/3, 15-16=-28/3, 16-17=-28/3, 17-18=-28/3 8) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads. OP CHORD 1-36=-259/16, 18-19=-263/16, 1-2=-28/3, 10-11=-28/3, 11-13=-28/3, 10-11=-28/3, 11-13=-28/3, 11-13=-28/3, 15-16=-28/3, 15-16=-28/3, 11-13=-28/3, 15-16=-28/3, 15-16=-28/3, 11-14=-28/3, 15-16=-28/3, 15-16=-28/3, 10 CAUTION, Do not erect truss backwards. 9) Recommend 2x6 strongbacks to be attached to walls at their outer ends or restrained by other means. 10) 0 CAUTION, Do not erect truss backwards. 10 CAD CASE(S) Standard 10 ADC CASE(S) Standard															
 All bearings are assumed to be SP No.2. All bearings are assumed to be SP No.2. 32=285 (LC 66), 24=285 (LC 67), 25=285 (LC 62), 28=285 (LC 63), 27=285 (LC 62), 28=285 (LC 61), 29=285 (LC 62), 31=285 (LC 57), 34=285 (LC 56), 35=286 (LC 57), 34=285 (LC 56), 35=286 (LC 55), 36=267 (LC 54) ORCES (lb) - Maximum Compression/Maximum Tension OP CHORD 1-36=-259/16, 18-19=-263/16, 1-2=-28/3, 2-3=-28/3, 3-4=-28/3, 4-5=-28/3, 5-6=-28/3, 6-7=-28/3, 7-8=-28/3, 15-16=-28/3, 10-12-28/3, 10-11=-28/3, 11-13=-28/3, 15-16=-28/3, 11-11=-28/3, 15-16=-28/3, 16-17=-28/3, 17-18=-28/3 All bearings are assumed to be SP No.2. All bearings are assumed to be SP No.2. N/A All bearings are assumed to be SP No.2. N/A All bearings are assumed to be SP No.2. N/A All bearings are assumed to be SP No.2. N/A This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads. Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means. CAUTION, Do not erect truss backwards. CAUTION, Do not erect truss backwards. LOAD CASE(S) Standard 					60)				lagena nez)						
23=285 (LC 66), 24=285 (LC 65), 25=285 (LC 64), 26=285 (LC 63), 27=285 (LC 62), 28=285 (LC 51), 29=285 (LC 52), 33=285 (LC 57), 34=285 (LC 56), 35=286 (LC 55), 36=267 (LC 54) 7) N/A ORCES (lb) - Maximum Compression/Maximum Tension 8) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads. OP CHORD 1-36=-259/16, 18-19=-263/16, 1-2=-28/3, 6-7=-28/3, 7-8=-28/3, 8-9=-28/3, 9-10=-28/3, 10-11=-28/3, 11-13=-28/3, 15-16=-28/3,					00),				2.						
 25=285 (LC 64), 26=285 (LC 63), 27=285 (LC 60), 31=285 (LC 61), 29=285 (LC 60), 31=285 (LC 59), 32=285 (LC 56), 33=285 (LC 57), 34=285 (LC 56), 33=286 (LC 55), 36=267 (LC 54) 8) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads. 9) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 co 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. 10) CAUTION, Do not erect truss backwards. 10 CAUTION, Do not erect tr						7) N/A									
 27=285 (LC 62), 28=285 (LC 61), 29=285 (LC 60), 31=285 (LC 59), 34=285 (LC 56), 35=286 (LC 55), 34=285 (LC 54) ORCES (lb) - Maximum Compression/Maximum Tension OP CHORD 1-36=-259/16, 1+2=-28/3, 2-3=-28/3, 3-4=-28/3, 4-5=-28/3, 6-6=-28/3, 6-7=-28/3, 7-8=-28/3, 8-9=-28/3, 9-10=-28/3, 10-11=-28/3, 11-13=-28/3, 15-16=-28/3, 14-15=-28/3, 15-16=-28/3, 15-16=-28/3, 17-18=-28/3 M This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconurrent with any other live loads. P Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means. CAUTION, Do not erect truss backwards. LOAD CASE(S) Standard 															
 29=285 (LC 60), 31=285 (LC 59), 32=285 (LC 57), 34=285 (LC 56), 35=286 (LC 55), 36=267 (LC 54) ORCES (b) - Maximum Compression/Maximum Tension OP CHORD 1-36=-259/16, 18-19=-263/16, 1-2=-28/3, 2-3=-28/3, 3-4=-28/3, 4-5=-28/3, 5-6=-28/3, 10-12=-28/3, 11-13=-28/3, 11-13=-28/3, 11-13=-28/3, 15-16=-28/3, 16-17=-28/3, 16-17=-28/3, 17-18=-28/3 8) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads. 9) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oo co 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 			27=285 (l	_C 62), 28=285 (LC	61),										111.
 32=285 (LC 58), 33=285 (LC 57), 34=285 (LC 56), 35=286 (LC 55), 36=267 (LC 54) ORCES (b) - Maximum Compression/Maximum Tension OP CHORD 1-36=-259/16, 18-19=-263/16, 1-2=-28/3, 2-3=-28/3, 3-4=-28/3, 4-5=-28/3, 5-6=-28/3, 6-7=-28/3, 7-8=-28/3, 15-16=-28/3, 15-17=-28/3, 15-16=-28/3, 15-17=-28/3, 15-16=-28/3, 15-17=-28			29=285 (l	_C 60), 31=285 (LC	59),									111110	A.D. 111
 34=285 (LC 56), 35=286 (LC 55), 36=267 (LC 54) ORCES (lb) - Maximum Compression/Maximum Tension OP CHORD 1-36=-259/16, 18-19=-263/16, 1-2=-28/3, 2-3=-28/3, 3-4=-28/3, 4-5=-28/3, 6-7=-28/3, 7-8=-28/3, 9-10=-28/3, 10-11=-28/3, 11-13=-28/3, 11-13=-28/3, 15-16=-28/3, 15-16=-28/3, 16-17=-28/3, 17-18=-28/3 (b) - Maximum Compression/Maximum Tension OP CHORD 1-36=-259/16, 18-19=-263/16, 1-2=-28/3, 2-3=-28/3, 6-7=-28/3, 7-8=-28/3, 9-10=-28/3, 10-11=-28/3, 11-13=-28/3, 11-13=-28/3, 11-13=-28/3, 11-13=-28/3, 15-16=-28/3, 16-17=-28/3, 17-18=-28/3 (b) - Maximum Compression/Maximum Tension (c) AUTION, Do not erect truss backwards. (d) CAUTION, Do not erect truss backwards. (d) CAUTION, Do not erect truss backwards. (DAD CASE(S) Standard 			· ·	<i>,,</i>										NGTHU	ARO
36=267 (LC 54) Ioad of 250.0b live and 3.0b dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads. OP CHORD 1-36=-259/16, 18-19=-263/16, 1-2=-28/3, 2-3=-28/3, 3-4=-28/3, 4-5=-28/3, 6-7=-28/3, 6-7=-28/3, 7-8=-28/3, 8-9=-28/3, 9-10=-28/3, 10-11=-28/3, 11-13=-28/3, 13-14=-28/3, 14-15=-28/3, 15-16=-28/3, 16-17=-28/3, 17-18=-28/3 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. 10) CAUTION, Do not erect truss backwards. LOAD CASE(S) Standard					55),								~	02.120	2. JA. 11
ORCES (b) - Maximum Compression/Maximum Tension Bottom Chord, nonconcurrent with any other live loads. OP CHORD 1-36=-28/3, 3-4=-28/3, 15-19=-28/3, 5-6=-28/3, 6-7=-28/3, 7-8=-28/3, 13-14=-28/3, 10-11=-28/3, 11-13=-28/3, 11-13=-28/3, 12-12=-28/3,			•	,									5	A CEED	MO: Z -
Tension DP CHORD 1-36=-259/16, 18-19=-263/16, 1-2=-28/3, 2-3=-28/3, 5-6=-28/3, 2-3=-28/3, 3-4=-28/3, 14-15=-28/3, 11-13=-28/3, 11-13=-28/3, 11-13=-28/3, 12-12=-28/3, 15-16=-28/3, 15-16=-28/3, 16-17=-28/3,	FORCES	· · /	imum Corr	pression/Maximum									5	10	W.
OP CHORD 1-36=-259/16, 18-19=-28/3, 16-17=-28/3, 2-38/3, 6-7=-28/3, 7-8=-28/3, 7-8=-28/3, 14-15=-28/3, 11-13=-28/3, 11-13=-28/3, 12-15=-28/3, 15-16=-28/3, 16-17=-28/3,										us.			5	4 OF	AL 7:
2-3=-28/3, 3-4=-26/3, 4-5=-28/3, 9-6=-28/3, 6-7=-28/3, 7-8=-28/3, 9-9=-28/3, 9-10=-28/3, 10-11=-28/3, 15-16=-28/3, 15-17=-28/3, 14-15=-28/3, 15-16=-28/3, 16-17=-28/3, 17-18=-28/3 (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 11477	TOP CHORD				5,								2	: SE	AL :
10-11=-28/3, 11-13=-28/3, 13-14=-28/3, 14-15=-28/3, 15-16=-28/3, 16-17=-28/3, 17-18=-28/3 10 CAUTION, Do not erect truss backwards. LOAD CASE(S) Standard										alls			-	114	77
10) CAUTION, Do not erect truss backwards. 17-18=-28/3, 15-16=-28/3, 16-17=-28/3, 17-18=-28/3			,	, ,	,	at their ou	ter ends or restrai	ned by othe	er means.				1		
17-18=-28/3 LOAD CASE(S) Standard													57	5.0	0:2:
HA GANNING				20/0, 10 11 20/0,		LOAD CASE(S) Standard						-1	NOIN	IEE. DS
H.A. GAMM			17-18=-28/3										1	0	GS
														11L HA	GAN
														Mun P	1. Milling
															III.



Job	Truss	Truss Type	Qty	Ply	Cooper III Rev.4-Floor	174400005
	2F3A	Floor	3	1	Job Reference (optional)	171190835
Structural, LLC, Thurmont, MD -	uctural, LLC, Thurmont, MD - 21788,			830 S Jan 17	2025 MiTek Industries, Inc. Tue Feb 04 08:37:05	Page: 1





Scale = 1:43.1

Loading (psf) Spacing 1-7-3 CSI DEFL in (loc) //defl L/d PLATES GRIP TCLL 40.0 Plate Grip DOL 1.00 TC 0.67 Vert(LL) -0.13 18-19 >999 480 MT20HS 187/143	
	3
TCDL 10.0 Lumber DOL 1.00 BC 0.83 Vert(CT) -0.15 18-19 >993 360 MT20 244/190	0
BCLL 0.0 Rep Stress Incr YES WB 0.32 Horz(CT) 0.02 15 n/a n/a	
BCDL 5.0 Code IRC2021/TPI2014 Matrix-S Weight: 105 lb FT = 20	0%F, 12%E
LUMBER 4) Bearings are assumed to be: Joint 26 SP No.2, Joint 20	
TOP CHORD 2x4 SP No.2(flat) SP No.2.	
BOT CHORD 2x4 SP No.2(flat) 5) Refer to girder(s) for truss to truss connections.	
WEBS 2x4 SP No.3(flat) 6) This truss has been designed for a moving concentrated	
OTHERS 2x4 SP No.3(flat) load of 250.0lb live and 3.0lb dead located at all mid	
BRACING panels and at all panel points along the Top Chord and	
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. 7) Bottom Chord, nonconcurrent with any other live loads. 7) Recommend 2x6 strongbacks, on edge, spaced at	
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. BOT CHORD Rigid ceiling directly applied or 6-0-0 oc directly applied	
REACTIONS (size) 15= Mechanical, 20=0-3-8, at their outer ends or restrained by other means.	
26=0-3-8 Max Grav 15=474 (LC 4), 20=1128 (LC 1), LOAD CASE(S) Standard	
26=345 (LC 3)	
FORCES (Ib) - Maximum Compression/Maximum	
Tension	
TOP CHORD 1-26=-257/48, 14-15=-259/30, 1-2=-18/3,	
2-3=-666/31, 3-4=-787/164, 4-5=-442/411, 5-6=0/1100, 6-7=0/1100, 7-8=-521/113,	
8-10=-1413/0, 10-11=-1413/0, 11-12=-1413/0,	
12-13-1047/0, 13-14=0/0	
BOT CHORD 25-26=0/496, 24-25=-164/787,	
20-22=-623/118, 19-20=-337/118,	
23-24=-164/787, 22-23=-164/787, 20-22=-623/118, 19-20=-337/118, 18-19=0/1040, 17-18=0/1413, 16-17=0/1366, 15-16=0/683	11
15-16=0/683	Nº1,
WEBS 6-20=-271/56, 10-18=-215/45,	IA'I
11-17=-184/171, 5-20=-833/0, 2-26=-586/0,	No 1
5-22=0/504, 2-25=-66/337, 4-22=-566/24,	11 3
3-25=-213/246, 3-24=-150/127,	
4-23=-65/208, 7-20=-1053/0, 7-19=0/676,	· • E
8-19=-664/0, 8-18=-43/565, 13-15=-809/0, 13-16=0/483, 12-16=-390/49	- ÷ = =
13-16=0/483, 12-16=-390/49, 12-17=-275/247	- i - E
	125
NOTES	
	GN
this design.	1.11
 All plates are MT20 plates unless otherwise indicated. All plates are 3x3 (=) MT20 unless otherwise indicated. 	11,

3) All plates are 3x3 (=) MT20 unless otherwise indicated.

"minin February 5,2025



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCEL Building Component Science United for the Structure Buckling Component Advance Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

Job	Truss	Truss Type	Qty	Ply	Cooper III Rev.4-Floor	
	2F3	Floor	1	1	Job Reference (optional)	171190836

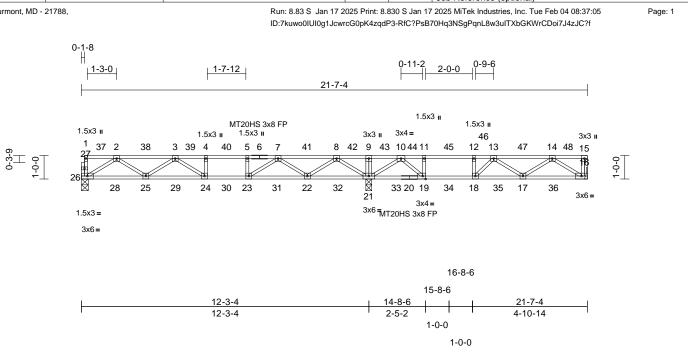


Plate Offsets (X, Y): [19:0-1-8,Edge]

Scale = 1:43.1

	,, i). [15.0 i 0,⊵ugu	-1											
Loading	(psf)	Spacing	1-7-3		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00		TC	0.68	Vert(LL)	-0.14	. ,	>999	480	MT20HS	187/143
TCDL	10.0	Lumber DOL	1.00		BC	0.93	Vert(CT)		24-25	>849	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES		WB	0.35	Horz(CT)	0.03	16	n/a	n/a		
BCDL	5.0	Code		1/TPI2014	Matrix-S							Weight: 104 lb	FT = 20%F, 12%E
LUMBER			4)	Bearings are	assumed to be: J	Joint 26 S	SP No.2 , Joi	nt 21					
TOP CHORD	2x4 SP No.2(flat)			SP No.2 .									
BOT CHORD	2x4 SP No.2(flat)		5)		er(s) for truss to tr								
WEBS	2x4 SP No.3(flat)		6)		is been designed								
OTHERS	2x4 SP No.3(flat)				Ib live and 3.0lb c								
BRACING					t all panel points a								
TOP CHORD		eathing directly applie	ed or		d, nonconcurrent			ads.					
	6-0-0 oc purlins, ex		7)		2x6 strongbacks, and fastened to e								
BOT CHORD		/ applied or 2-2-0 oc			nails. Strongbac			valls					
REACTIONS	bracing.	hanical, 21=0-3-0,		at their outer	ends or restraine	d by oth	er means.						
REACTIONS	26=0-3-8		,	,	o not erect truss l	backware	ds.						
	Max Grav 16=389 (1), LC	DAD CASE(S)	Standard								
	26=491 (LC 10)											
FORCES	(lb) - Maximum Con	npression/Maximum											
	Tension												
TOP CHORD		6=-260/30, 1-2=-18/3	8,										
	,	556/0, 4-5=-1556/0,											
		303/25, 8-9=-62/717,											
	9-10=-62/717, 10-1												
	11-12=-854/132, 12 13-14=-804/0, 14-1												
BOT CHORD		5=0/0 5=0/1464, 23-24=0/15	556									INTH C	1111.
BOT CHOILD	22-23=0/1278, 21-2		550,									111110	AD III.
	19-21=-381/407, 18	,										N'OTH U	ARO II
	17-18=0/980, 16-17	,										OVAC	D. A.L.
WEBS	,	9=-372/0, 12-18=-99/	/230,								5		Dity :
	8-21=-987/0, 2-26=	-846/0, 8-22=0/633,	,								2	R OKA	No. 1
	2-25=0/493, 7-22=-	611/0, 3-25=-430/17,									-		1 7: 2
	7-23=-94/460, 3-24	=-231/271,									=	SE/	AL : : :
	,	3=-212/66, 10-21=-74	,								=	114	77 : =
	,	=-653/0, 14-17=0/42	1,								=		
	13-17=-272/122, 13	-18=-386/87									Thinnin the	5	AL 77 NILLEER CRIMIN
NOTES											-1	VOIN	EE . FS
,	ed floor live loads have	e been considered fo	r								1	A	GS
this design		a a de a mada a da alta d										11 L HA	GAN
	are MT20 plates unles											A A	in the second
S) All plates a	are 3x3 (=) MT20 unle	ess otherwise indicat	eu.									- min	III.

February 5,2025



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCEL Building Component Schut Information, purplication for the trust Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



