

**Trenco** 818 Soundside Rd Edenton, NC 27932

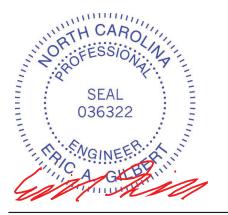
Re: Master120 Hayden 120 Roof

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Builders FirstSource-Apex,NC.

Pages or sheets covered by this seal: I58754004 thru I58754018

My license renewal date for the state of North Carolina is December 31, 2023.

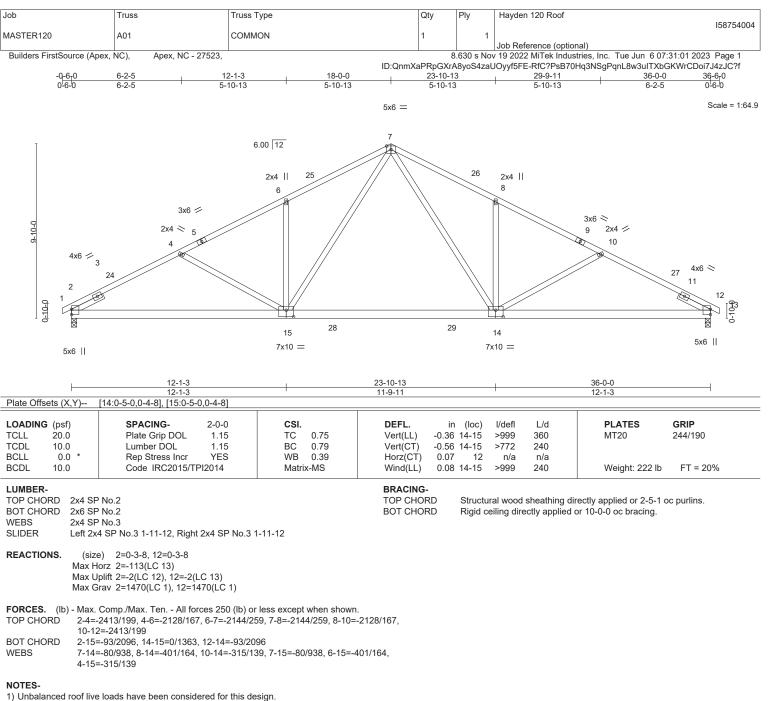
North Carolina COA: C-0844



June 6,2023

## Gilbert, Eric

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

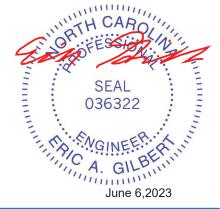


2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-6-0 to 2-6-0, Interior(1) 2-6-0 to 18-0-0, Exterior(2) 18-0-0 to 22-2-15, Interior(1) 22-2-15 to 36-6-0 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

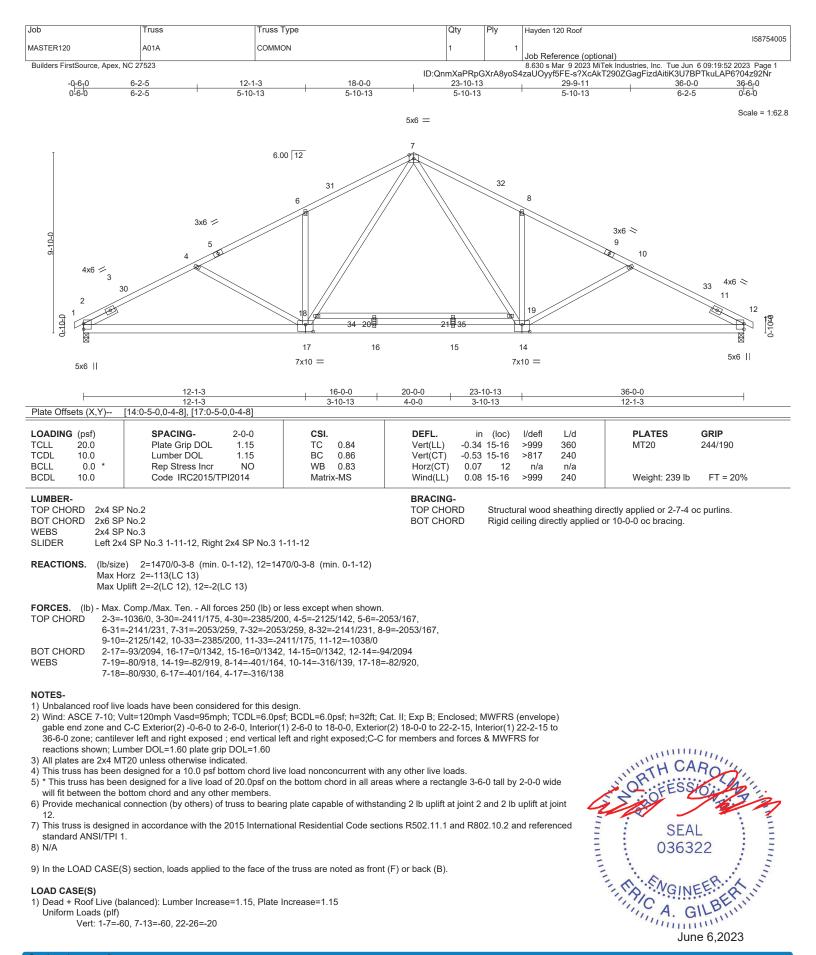
\* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide 4) will fit between the bottom chord and any other members, with BCDL = 10.0psf.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2 lb uplift at joint 2 and 2 lb uplift at joint 12.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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 MSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





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# 818 Soundside Road

Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Hayden 120 Roof	158754005
MASTER120	A01A	COMMON	1		1	158754005
Builders FirstSource, Apex,	NC 27523				Job Reference (optional) 8.630 s Mar 9 2023 MiTek Ir	ndustries, Inc. Tue Jun 6 09:19:52 2023 Page 2
			ID:QnmXaPRp0	GXrA8yoS	S4zaUOyyf5FE-s?XcAkT290	)ZGagFizdAitiK3U7BPTkuLAP6?04z92Ňr
LOAD CASE(S)						
· · · · · · · · · · · · · · · · · · ·	ve (balanced) + 0.75 Uni	nhab. Attic Storage: Lumber Incre	ease=1.15, Plate Increase=1.15			
Uniform Loads (plf)	0, 7-13=-50, 22-26=-20,	34 35- 30(E)				
		Lumber Increase=1.25, Plate Inc	rease=1.25			
Uniform Loads (plf)	· · ·					
	0, 7-13=-20, 22-26=-40,	34-35=-40(F) Lumber Increase=1.60, Plate Inc	crease=1.60			
Uniform Loads (plf)			51ed3e=1.00			
Vert: 1-2=4		2=25, 12-32=14, 12-13=9, 22-26	=-12			
		7-32=37, 12-32=26, 12-13=21 Lumber Increase=1.60, Plate Inc	crease=1.60			
Uniform Loads (plf)			510430-1.00			
		=14, 12-33=25, 12-13=47, 22-26	=-12			
		7-33=26, 12-33=37, 12-13=59 Lumber Increase=1.60, Plate Inc	crease=1.60			
Uniform Loads (plf)	d (Neg. Internal) Case 1.		ciease=1.00			
	2, 2-7=-33, 7-12=-33, 12					
	3, 2-7=13, 7-12=-13, 12- d (Neg. Internal) Case 2	I3=-8 Lumber Increase=1.60, Plate Inc	crease=1.60			
Uniform Loads (plf)	d (Neg. Internal) Case 2.		ciease=1.00			
	8, 2-7=-33, 7-12=-33, 12					
	, 2-7=13, 7-12=-13, 12-1 Wind (Pos. Internal) Lef	3=8 :: Lumber Increase=1.60, Plate In	000000000000000000000000000000000000000			
Uniform Loads (plf)	Wind (1 03. Internal) Lei	Lumber merease - 1.00, 1 late m	1016436-1.00			
	2-7=-2, 7-12=9, 12-13=4					
	21, 2-7=-10, 7-12=21, 12 Wind (Pos. Internal) Rid	-13=16 ht: Lumber Increase=1.60, Plate	Increase=1.60			
Uniform Loads (plf)	wind (1 03. internal) rug		11010030-1.00			
	2-7=9, 7-12=-2, 12-13=					
	16, 2-7=-21, 7-12=10, 12 S Wind (Neg. Internal) L	-13=21 eft: Lumber Increase=1.60, Plate	Increase=1.60			
Uniform Loads (plf)						
	15, 2-7=-20, 7-12=-9, 12					
	-5, 2-7=-0, 7-12=11, 12- S Wind (Neg. Internal) R	13=16 ight: Lumber Increase=1.60, Plat	e Increase=1.60			
Uniform Loads (plf)	,	gni. Lumber increase - 1.00, Flat	e increase-1.00			
Vert: 1-2=	4, 2-7=-9, 7-12=-20, 12-					
	-16, 2-7=-11, 7-12=0, 12 S Wind (Pos. Internal) 1	-13=5 t Parallel: Lumber Increase=1.60	) Plate Increase=1.60			
Uniform Loads (plf)	. ,	t arallel. Lumber increase=1.00	, Thate increase=1.00			
		=3, 12-13=-2, 22-26=-12				
	-29, 2-4=-34, 4-7=-23, 7 S Wind (Pos. Internal) 2r	·12=15, 12-13=10 Id Parallel: Lumber Increase=1.6	0 Plate Increase=1.60			
Uniform Loads (plf)	. ,		0, 1 late morease= 1.00			
		2=22, 12-13=17, 22-26=-12				
	-10, 2-7=-15, 7-10=23, 1 S Wind (Bos, Internal) 3	0-12=34, 12-13=29 d Parallel: Lumber Increase=1.60	) Plate Increase=1.60			
Uniform Loads (plf)	. ,	a Falallel. Lumber increase-1.00	J, Flate Increase-1.00			
Vert: 1-2=	7, 2-7=11, 7-12=3, 12-13					
	-19, 2-7=-23, 7-12=15, 1	2-13=10 h Parallel: Lumber Increase=1.60	) Plata Increase=1.60			
Uniform Loads (plf)		Thataliel. Lumber increase=1.00	, Thate morease=1.00			
	2, 2-7=3, 7-12=11, 12-1					
	-10, 2-7=-15, 7-12=23, 1 S Wind (Neg. Internal) 1	2-13=19 st Parallel: Lumber Increase=1.60	) Plate Increase=1.60			
Uniform Loads (plf)	,	st Farallel. Lumber increase-1.00	J, Flate Increase - 1.00			
Vert: 1-2=	9, 2-4=4, 4-7=-6, 7-12=-1	5, 12-13=-10, 22-26=-20				
	-29, 2-4=-24, 4-7=-14, 7 S Wind (Neg. Internal) 2	·12=5, 12-13=10 nd Parallel: Lumber Increase=1.6	0 Plate Increase=1.60			
Uniform Loads (plf)		iu Falaliei. Lumber molease-1.0	o, Flate Increase-1.00			
		-12=4, 12-13=9, 22-26=-20				
	-10, 2-7=-5, 7-10=14, 10	-12=24, 12-13=29 r Increase=0.90, Plate Increase=	0.00 Dit. motol=0.00			
Uniform Loads (plf)	0	I Increase=0.90, Plate Increase=	0.90 Pil. metai=0.90			
Vert: 1-7=	20, 7-13=-20, 22-26=-20					
,	_ive (bal.) + 0.75 Uninhal	o. Attic Storage + 0.75(0.6 MWFF	RS Wind (Neg. Int) Left): Lumber	Increase	e=1.60, Plate	
Increase=1.60 Uniform Loads (plf)						
		2-13=-38, 22-26=-20, 34-35=-30	(F)			
Horz: 1-2=	-4, 2-7=-0, 7-12=8, 12-1	3=12				
20) Dead + 0.75 Roof I Increase=1.60	₋ıve (ɒai.) + 0.75 Uninha	o. Attic Storage + 0.75(0.6 MWFF	x> vvina (Neg. Int) Right): Lumbe	er Increas	se=1.60, Plate	
Uniform Loads (plf)						
Vert: 1-2=	38, 2-7=-42, 7-12=-50, 1	2-13=-46, 22-26=-20, 34-35=-30	(F)			
Horz: 1-2=	-12, 2-7=-8, 7-12=0, 12-	13=4				

Marking - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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
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 Safety Information
 available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Hayden 120 Roof
					158754005
MASTER120	A01A	COMMON	1	1	
					Job Reference (optional)
Builders FirstSource, Apex, NC 2	27523				8.630 s Mar 9 2023 MiTek Industries, Inc. Tue Jun 6 09:19:52 2023 Page 3

ID:QnmXaPRpGXrA8yoS4zaUOyyf5FE-s?XcAkT290ZGagFizdAitiK3U7BPTkuLAP6?04z92Nr

#### LOAD CASE(S)

21) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-28, 2-4=-32, 4-7=-40, 7-12=-46, 12-13=-43, 22-26=-20, 34-35=-30(F)

Horz: 1-2=-22, 2-4=-18, 4-7=-10, 7-12=4, 12-13=7

22) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-43, 2-7=-46, 7-10=-40, 10-12=-32, 12-13=-28, 22-26=-20, 34-35=-30(F)

Horz: 1-2=-7, 2-7=-4, 7-10=10, 10-12=18, 12-13=22

23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-7=-60, 7-13=-20, 22-26=-20

24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

- Vert: 1-7=-20, 7-13=-60, 22-26=-20
- 25) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

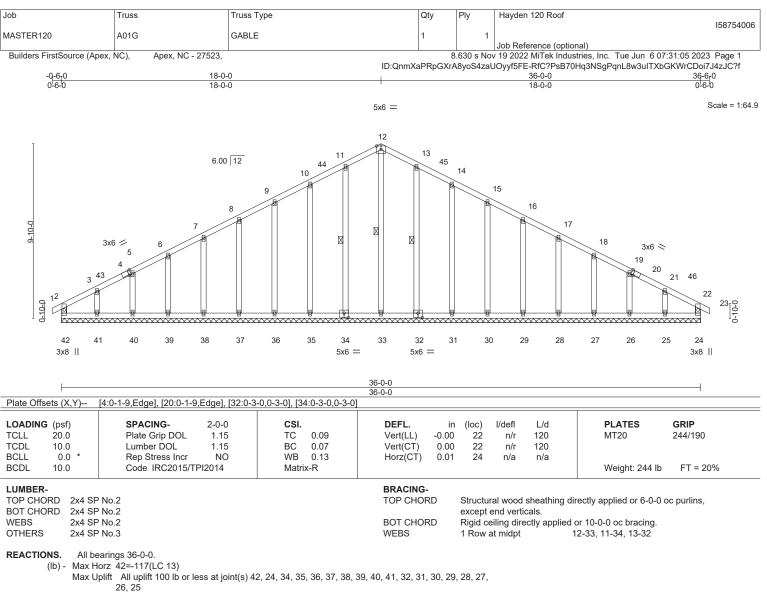
Vert: 1-7=-50, 7-13=-20, 22-26=-20, 34-35=-30(F)

26) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-7=-20, 7-13=-50, 22-26=-20, 34-35=-30(F)

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Max Grav All reactions 250 lb or less at joint(s) 42, 24, 33, 34, 35, 36, 37, 38, 39, 40, 41, 32, 31, 30, 29, 28, 27, 26, 25

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

TOP CHORD 10-11=-101/277, 11-12=-115/313, 12-13=-115/308, 13-14=-101/271

#### NOTES-

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

2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-6-0 to 2-6-0, Exterior(2) 2-6-0 to 18-0-0, Corner(3) 18-0-0 to 21-0-0, Exterior(2) 21-0-0 to 36-6-0 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

4) All plates are 2x4 MT20 unless otherwise indicated.

5) Gable requires continuous bottom chord bearing.

6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).

7) Gable studs spaced at 2-0-0 oc.

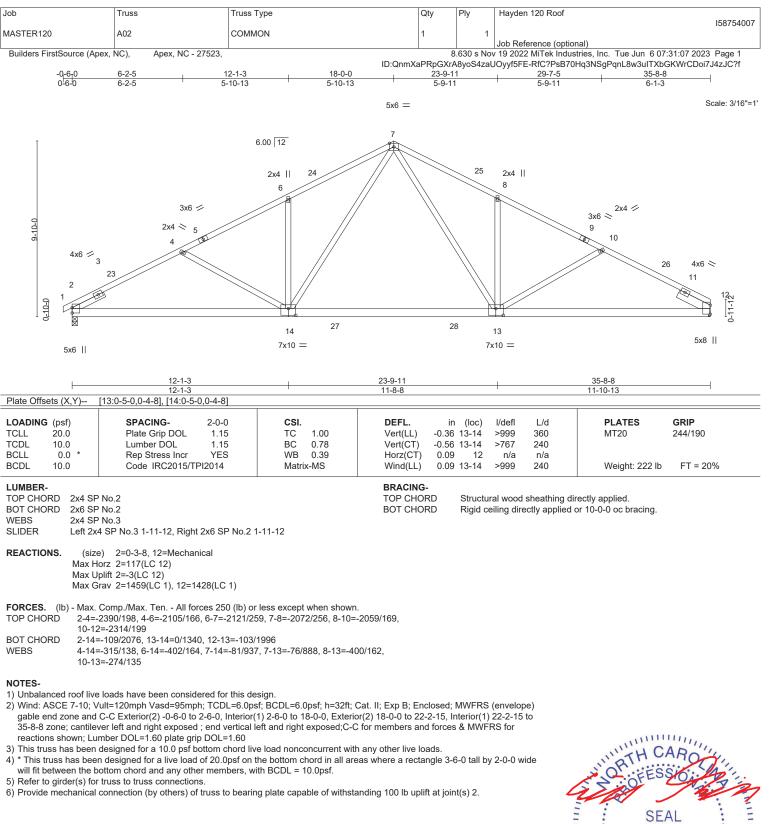
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 42, 24, 34, 35, 36, 37, 38, 39, 40, 41, 32, 31, 30, 29, 28, 27, 26, 25.



ENGINEERING BY EREENCO A MITak Affiliate 818 Soundside Road

Edenton, NC 27932

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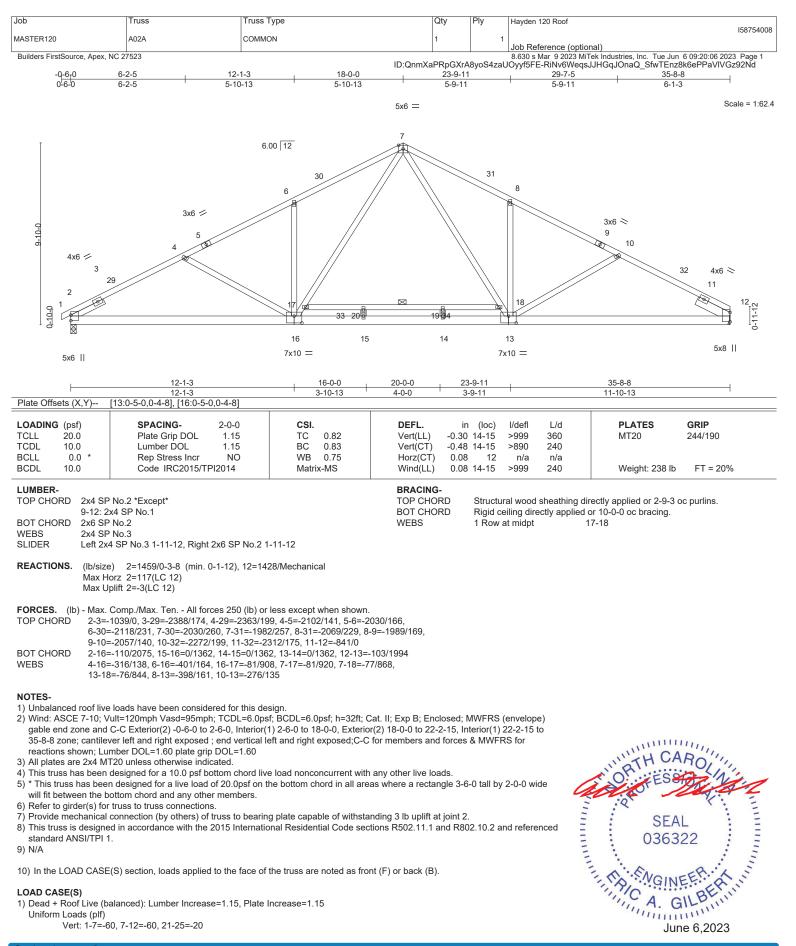




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A MITEK Affiliate 818 Soundside Road

Edenton, NC 27932



818 Soundside Road Edenton, NC 27932

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Job	Truss	Truss Type	Qty	y	Ply	Hayden 120 Roof	158754008
MASTER120	A02A	COMMON	1		1		1007 34008
Builders FirstSource, Apex, NC	27523					Job Reference (optional) 8.630 s Mar 9 2023 MiTek Ind	dustries, Inc. Tue Jun 6 09:20:07 2023 Page 2
			ID:QnmXa	aPRpG	XrA8yoS4	4zaUOyyf5FE-vuxHJsfSddR	8tzubLHxD_tSe_AJNTZuYdEEl2iz92Ñc
LOAD CASE(S)							
,	(balanced) + 0.75 Uninh	ab. Attic Storage: Lumber Increase=1	.15, Plate Increase=	=1.15			
Uniform Loads (plf)	7-12=-50, 21-25=-20, 33	3-3430(E)					
		Imber Increase=1.25, Plate Increase=	1.25				
Uniform Loads (plf)		······································					
	7-12=-20, 21-25=-40, 33		4.00				
4) Dead + 0.6 C-C Wind Uniform Loads (plf)	(Pos. Internal) Case 1: L	umber Increase=1.60, Plate Increase=	1.60				
	2-29=25, 7-29=14, 7-31=	25, 12-31=14, 21-25=-12					
	, 2-29=-37, 7-29=-26, 7-						
	(Pos. Internal) Case 2: L	umber Increase=1.60, Plate Increase=	-1.60				
Uniform Loads (plf) Vert: 1-2=9, 2	-30=14, 7-30=25, 7-32=	4, 12-32=25, 21-25=-12					
	, 2-30=-26, 7-30=-37, 7-3						
	(Neg. Internal) Case 1: L	umber Increase=1.60, Plate Increase=	=1.60				
Uniform Loads (plf)	07-00740-00040	E- 20					
	2-7=-33, 7-12=-33, 21-2 2-7=13, 7-12=-13	5=-20					
		umber Increase=1.60, Plate Increase=	=1.60				
Uniform Loads (plf)							
	2-7=-33, 7-12=-33, 21-2	5=-20					
	2-7=13, 7-12=-13 /ind (Pos_Internal) Left:	_umber Increase=1.60, Plate Increase	=1.60				
Uniform Loads (plf)	(i con internal) zona						
· · · ·	-7=-2, 7-12=9, 21-25=-12	2					
	, 2-7=-10, 7-12=21 (ind (Doc. Internal) Bight	Lumber Increase=1.60. Plate Increase	-1.60				
Uniform Loads (plf)	ninu (Pos. Internar) Right	: Lumber Increase=1.60, Plate Increas	8-1.00				
	-7=9, 7-12=-2, 21-25=-1	2					
	, 2-7=-21, 7-12=10						
10) Dead + 0.6 MWFRS Uniform Loads (plf)	Wind (Neg. Internal) Left	: Lumber Increase=1.60, Plate Increas	se=1.60				
	5, 2-7=-20, 7-12=-9, 21-2	5=-20					
	, 2-7=-0, 7-12=11						
,	Wind (Neg. Internal) Rig	nt: Lumber Increase=1.60, Plate Incre	ase=1.60				
Uniform Loads (plf)	2-7=-9, 7-12=-20, 21-25	- 20					
	6, 2-7=-11, 7-12=0						
		Parallel: Lumber Increase=1.60, Plate	Increase=1.60				
Uniform Loads (plf)							
	, 2-4=22, 4-7=11, 7-12=3 9, 2-4=-34, 4-7=-23, 7-1						
		Parallel: Lumber Increase=1.60, Plate	Increase=1.60				
Uniform Loads (plf)		·					
	2-7=3, 7-10=11, 10-12=						
	0, 2-7=-15, 7-10=23, 10-	12=34 Parallel: Lumber Increase=1.60, Plate	Inoroco-1 60				
Uniform Loads (plf)	wind (Fos. Internal) sid	Farallel. Lumber Increase-1.00, Flate	Increase-1.00				
	2-7=11, 7-12=3, 21-25=-	12					
	9, 2-7=-23, 7-12=15						
15) Dead + 0.6 MWFRS Uniform Loads (plf)	Wind (Pos. Internal) 4th	Parallel: Lumber Increase=1.60, Plate	Increase=1.60				
	2-7=3, 7-12=11, 21-25=	-12					
	0, 2-7=-15, 7-12=23						
,	Wind (Neg. Internal) 1st	Parallel: Lumber Increase=1.60, Plate	Increase=1.60				
Uniform Loads (plf)	2-4=4, 4-7=-6, 7-12=-15	21-25=-20					
	9, 2-4=-24, 4-7=-14, 7-1						
		Parallel: Lumber Increase=1.60, Plate	e Increase=1.60				
Uniform Loads (plf)							
	), 2-7=-15, 7-10=-6, 10-1 0, 2-7=-5, 7-10=14, 10-1						
		ncrease=0.90, Plate Increase=0.90 Pl	t. metal=0.90				
Uniform Loads (plf)	, allo otorago: Lambor .						
	), 7-12=-20, 21-25=-20,						
19) Dead + 0.75 Roof Liv Increase=1.60	e (pai.) + 0.75 Uninhab.	Attic Storage + 0.75(0.6 MWFRS Win	a (Neg. Int) Left): Lu	Imber	increase=	= 1.60, Plate	
Uniform Loads (plf)							
	6, 2-7=-50, 7-12=-42, 21	25=-20, 33-34=-30(F)					
Horz: 1-2=-4	, 2-7=-0, 7-12=8						
,	e (bal.) + 0.75 Uninhab.	Attic Storage + 0.75(0.6 MWFRS Win	d (Neg. Int) Right): L	umbe	r Increas	e=1.60, Plate	
Increase=1.60 Uniform Loads (plf)							
(1)	3, 2-7=-42, 7-12=-50, 21	25=-20, 33-34=-30(F)					
	2, 2-7=-8, 7-12=0	• •					

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Hayden 120 Roof
					158754008
MASTER120	A02A	COMMON	1	1	Job Reference (optional)
Builders FirstSource, Apex, NC 2	27523				8.630 s Mar 9 2023 MiTek Industries, Inc. Tue Jun 6 09:20:07 2023 Page 3

ID:QnmXaPRpGXrA8yoS4zaUOyyf5FE-vuxHJsfSddR8tzubLHxD\_tSe\_AJNTZuYdEEI2iz92Nc

#### LOAD CASE(S)

21) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-28, 2-4=-32, 4-7=-40, 7-12=-46, 21-25=-20, 33-34=-30(F)

Horz: 1-2=-22, 2-4=-18, 4-7=-10, 7-12=4

22) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-43, 2-7=-46, 7-10=-40, 10-12=-32, 21-25=-20, 33-34=-30(F)

Horz: 1-2=-7, 2-7=-4, 7-10=10, 10-12=18

23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-7=-60, 7-12=-20, 21-25=-20

24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-7=-20, 7-12=-60, 21-25=-20

- 25) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-7=-50, 7-12=-20, 21-25=-20, 33-34=-30(F)

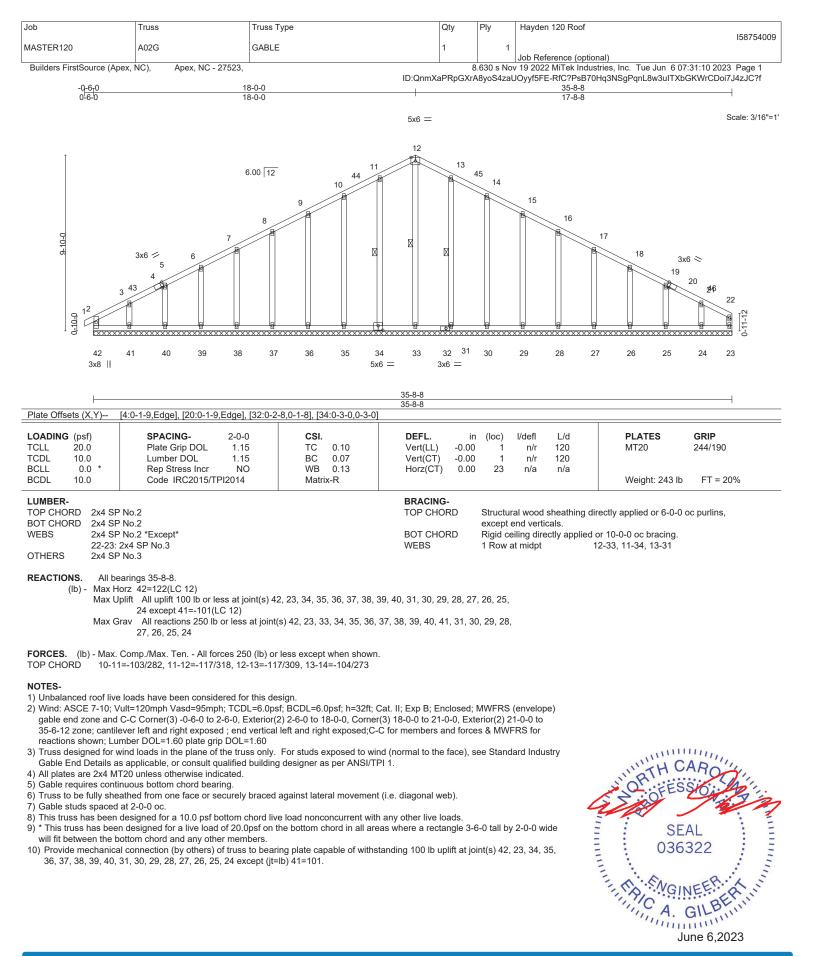
26) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-7=-20, 7-12=-50, 21-25=-20, 33-34=-30(F)

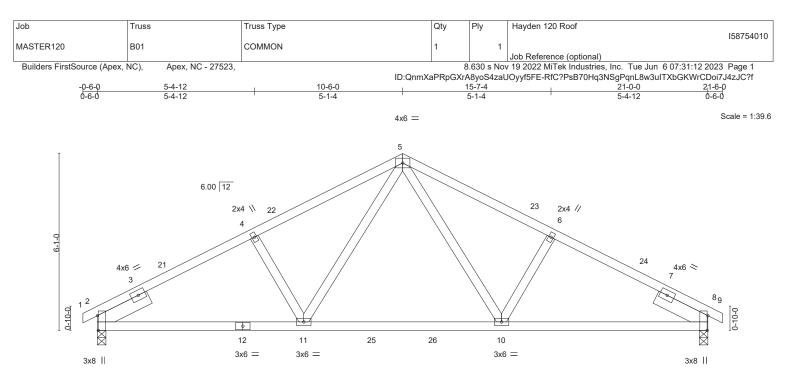
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





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ENGINEERING BY AMITEK AMITEK B18 Soundside Road Edenton, NC 27932



1	7-1-3	1	13-10-13	1		21-	0-0	I	
	7-1-3		6-9-11	1		7-1	-3	1	
Plate Offsets (X,Y)	[2:0-6-1,Edge], [8:0-6-1,Edge]								
	SPACING 2-0-0	190	DEEL	in (loc)	l/defl L/d			CPIP	

LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.40	Vert(LL)	-0.11 10-11	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.50	Vert(CT)	-0.19 10-11	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.04 8	n/a	n/a		
BCDL	10.0	Code IRC2015/TF	912014	Matri	x-MS	Wind(LL)	0.03 10-11	>999	240	Weight: 107 lb	FT = 20%

#### LUMBER-

 TOP CHORD
 2x4 SP No.2

 BOT CHORD
 2x4 SP No.2

 WEBS
 2x4 SP No.3

 SLIDER
 Left 2x6 SP No.2 1-11-12, Right 2x6 SP No.2 1-11-12

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 4-7-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 8=0-3-8 Max Horz 2=82(LC 12) Max Uplift 2=-23(LC 12), 8=-23(LC 13) Max Grav 2=870(LC 1), 8=870(LC 1)

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

TOP CHORD 2-4=-1250/131, 4-5=-1137/154, 5-6=-1137/154, 6-8=-1250/131

BOT CHORD 2-11=-58/1066, 10-11=0/768, 8-10=-58/1066

WEBS 5-10=-44/401, 6-10=-250/129, 5-11=-44/401, 4-11=-250/129

### NOTES-

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

2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-6-0 to 2-6-0, Interior(1) 2-6-0 to 10-6-0, Exterior(2) 10-6-0 to 14-8-15, Interior(1) 14-8-15 to 21-6-0 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

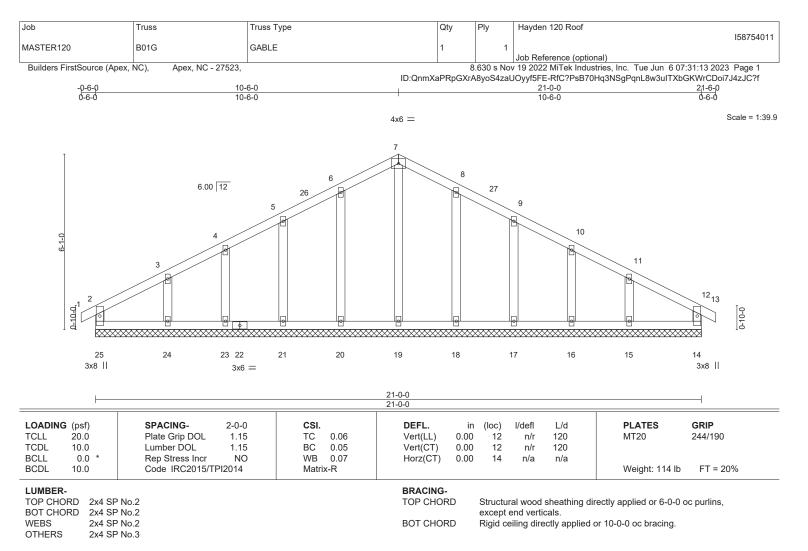
4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8.



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**REACTIONS.** All bearings 21-0-0.

(lb) - Max Horz 25=77(LC 11)

Max Uplift All uplift 100 lb or less at joint(s) 25, 14, 20, 21, 23, 24, 18, 17, 16, 15

Max Grav All reactions 250 lb or less at joint(s) 25, 14, 19, 20, 21, 23, 24, 18, 17, 16, 15

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

#### NOTES-

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

2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-6-0 to 2-6-0, Exterior(2) 2-6-0 to 10-6-0, Corner(3) 10-6-0 to 13-6-0, Exterior(2) 13-6-0 to 21-6-0 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

4) All plates are 2x4 MT20 unless otherwise indicated.

5) Gable requires continuous bottom chord bearing.

6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).

7) Gable studs spaced at 2-0-0 oc.

8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

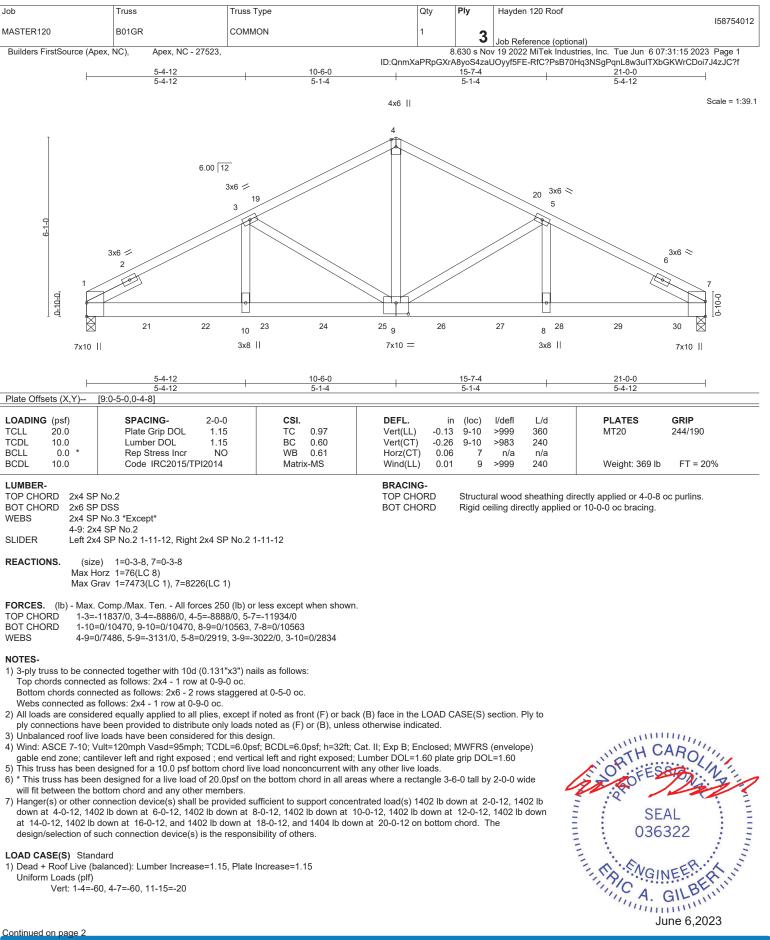
9) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 25, 14, 20, 21, 23, 24, 18, 17, 16, 15.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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 sand truss system. See **ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





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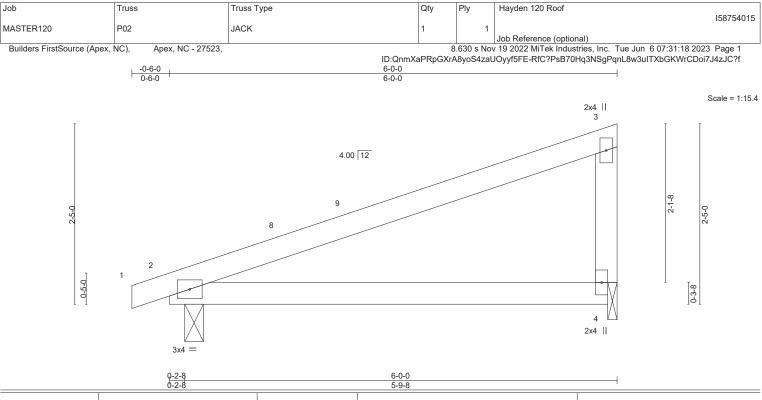
Job	Truss	Truss Type	Qty	Ply	Hayden 120 Roof
					158754012
MASTER120	B01GR	COMMON	1	2	
				5	Job Reference (optional)
Builders FirstSource (Apex, I	NC), Apex, NC - 27523,		6	.630 s Nov	/ 19 2022 MiTek Industries, Inc. Tue Jun 6 07:31:15 2023 Page 2
		ID:QnmX	aPRpGXr/	A8yoS4zaL	IOyyf5FE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

#### LOAD CASE(S) Standard Concentrated Loads (Ib)

Vert: 21=-1402(B) 22=-1402(B) 23=-1402(B) 24=-1402(B) 25=-1402(B) 26=-1402(B) 27=-1402(B) 28=-1402(B) 29=-1402(B) 30=-1404(B) 30=-1404(B)

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		0-2-8		5-9-8		
LOADIN	G (psf)	<b>SPACING-</b> 2-0-0	CSI.	DEFL. in (loc)	l/defl L/d	PLATES GRIP
TCLL	20.0	Plate Grip DOL 1.15	TC 0.53	Vert(LL) -0.05 4-7	>999 360	MT20 244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.41	Vert(CT) -0.12 4-7	>570 240	
BCLL	0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.01 2	2 n/a n/a	
BCDL	10.0	Code IRC2015/TPI2014	Matrix-MP	Wind(LL) 0.05 4-7	>999 240	Weight: 22 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No 2 BOT CHORD 2x4 SP No.2 WEBS

2x4 SP No.3

REACTIONS. 2=0-3-0, 4=0-1-8 (size) Max Horz 2=77(LC 11) Max Uplift 2=-39(LC 8), 4=-34(LC 12) Max Grav 2=265(LC 1), 4=233(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-6-0 to 2-6-0, Interior(1) 2-6-0 to 5-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

- 4) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.



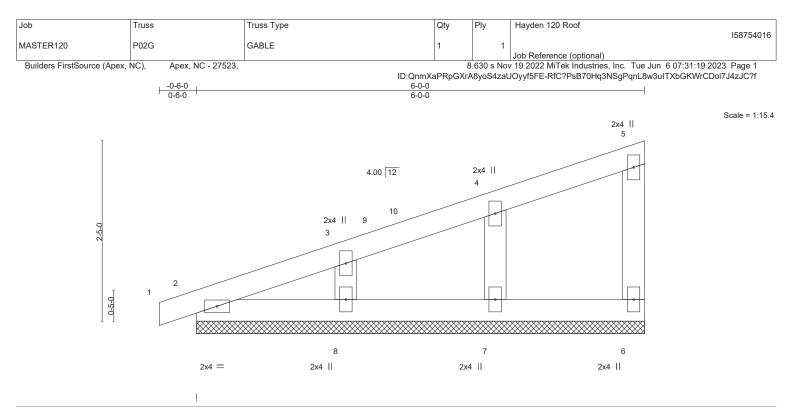
Structural wood sheathing directly applied or 6-0-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

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OADING (psf)	<b>SPACING-</b> 2-0-0	CSI.	DEFL. in	(loc) l/de		PLATES GRIP
CLL 20.0	Plate Grip DOL 1.15	TC 0.07	Vert(LL) -0.00	1 r	n/r 120	MT20 244/190
CDL 10.0	Lumber DOL 1.15	BC 0.04	Vert(CT) 0.00	1 r	n/r 120	
BCLL 0.0 *	Rep Stress Incr NO	WB 0.04	Horz(CT) 0.00	6 n	/a n/a	
3CDL 10.0	Code IRC2015/TPI2014	Matrix-P	· · /			Weight: 25 lb FT = 20%

OP CHORD 2x4 SP No.2 BOT CHORD WEBS 2x4 SP No.3 OTHERS 2x4 SP No.3 TOP CHORE

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

REACTIONS. All bearings 6-0-0.

Max Horz 2=77(LC 9) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 6, 2, 7, 8

Max Grav All reactions 250 lb or less at joint(s) 6, 2, 7, 8

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

#### NOTES-

1) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-6-0 to 2-6-0, Exterior(2) 2-6-0 to 5-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

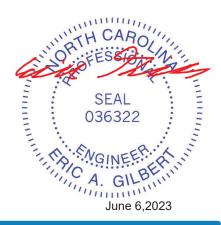
3) Gable requires continuous bottom chord bearing.

4) Gable studs spaced at 2-0-0 oc.

5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

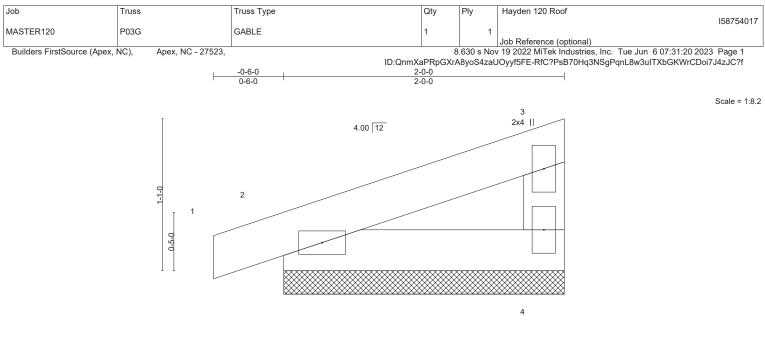
6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 2, 7, 8.



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2x4 =

2x4 ||

except end verticals.

Structural wood sheathing directly applied or 2-0-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

OADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES G	RIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.05	Vert(LL)	-0.00	1	n/r	120	MT20 24	44/190
TCDL 10.0	Lumber DOL 1.15	BC 0.04	Vert(CT)	0.00	1	n/r	120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT)	0.00	4	n/a	n/a		
3CDL 10.0	Code IRC2015/TPI2014	Matrix-P						Weight: 8 lb	FT = 20%

TOP CHORD

BOT CHORD

### LUMBER-

TOP CHORD 2x4 SP No 2 2x4 SP No.2 BOT CHORD WEBS 2x4 SP No.3

REACTIONS. 4=2-0-0, 2=2-0-0 (size) Max Horz 2=28(LC 9)

Max Uplift 4=-10(LC 12), 2=-25(LC 8) Max Grav 4=70(LC 1), 2=108(LC 1)

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

#### NOTES-

- 1) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable requires continuous bottom chord bearing.

4) Gable studs spaced at 1-4-0 oc.

5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

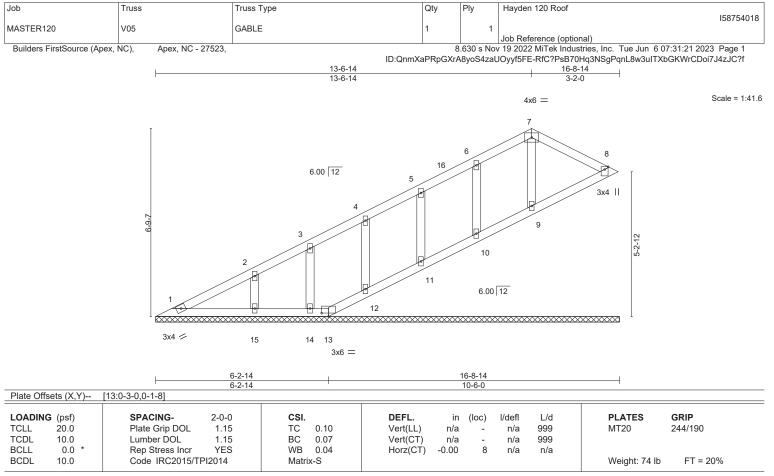
6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.



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BRACING-

TOP CHORD

BOT CHORD

#### LUMBER-

TOP CHORD2x4 SP No.2BOT CHORD2x4 SP No.2OTHERS2x4 SP No.3

REACTIONS. All bearings 16-8-14.

(lb) - Max Horz 1=191(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 8, 10, 11, 12, 14, 15

Max Grav All reactions 250 lb or less at joint(s) 1, 8, 13, 9, 10, 11, 12, 14, 15

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

#### NOTES-

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

2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-7-7 to 3-6-14, Interior(1) 3-6-14 to 13-6-14, Exterior(2) 13-6-14 to 16-4-7 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) All plates are 2x4 MT20 unless otherwise indicated.

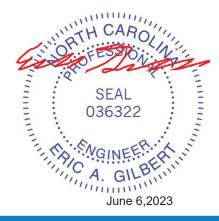
4) Gable requires continuous bottom chord bearing.

5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 10, 11, 12, 14, 15.

8) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 8, 9, 10, 11, 12.



Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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 Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



