

Trenco 818 Soundside Rd Edenton, NC 27932

Re: 1231742 H&H-NC/Kent

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 (Albermarle,NC).

Pages or sheets covered by this seal: E10993700thru E10993714

My license renewal date for the state of North Carolina is December 31, 2017.

North Carolina COA: C-0844

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



September 27,2017

Lassiter, Frank

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdictions(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's customer's 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 the design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.





NOTES- (9)

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

2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone;

end vertical left 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 basic load combinations, which include cases with reductions for multiple concurrent live loads

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

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

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 104 lb uplift at joint 2 and 61 lb uplift at joint 6.

8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum sheetrock be applied directly to the bottom chord.

9) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



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 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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A MiTek Aff

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Kent
					E10993702
1231742	A03	Common Girder	1	2	
				_	Job Reference (optional)
Probuild East, Albema	le , NC 28001			7.64	0 s Aug 16 2017 MiTek Industries, Inc. Wed Sep 27 16:06:32 2017 Page 2
			ID:h_gU	bldXiXoqL	1mPMfncDza12N-yTNNrUed5JFV8JJo6qYis1RKrLaAqi0sA1?gSjyZOcr

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-4=-60, 4-6=-60, 7-11=-20

Vert: 1-4=-60, 4-6=-60, 7-11=-. Concentrated Loads (lb) Vert: 8=-7366(F)

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3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.

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

5) * 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.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 63 lb uplift at joint 6 and 116 lb uplift at joint 2

7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum sheetrock be applied directly to the bottom chord

8) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



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1), 24=160(LC 1), 25=160(LC 1), 26=514(LC 6), 27=68(LC 1)

FORCES. (Ib) - Maximum Compression/Maximum Tension

TOP CHORD 10-11=-339/33, 11-12=-264/32, 12-13=-188/32, 13-14=-112/32, 14-15=-38/23, 15-16=-11/3, 15-17=-64/40 2-29=-442/599, 28-29=-691/846, 27-28=-717/585, 26-27=-712/578, 25-26=-22/20, 24-25=-21/22, 23-24=-21/0, BOT CHORD 22-23=-8/22, 21-22=-21/22, 20-21=-21/22, 19-20=-21/16, 18-19=-7/2, 17-18=-7/2 WEBS 14-18=-121/115, 13-20=-120/120, 12-21=-120/118, 11-22=-120/120, 9-24=-119/116, 8-25=-123/133, 7-26=-104/44, 5-27=-52/52, 4-29=-364/287, 5-28=-610/502, 3-29=-280/280, 4-28=-330/447, 5-26=-512/634

NOTES-(12)

1) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; cantilever left exposed; end vertical left 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) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads 4) All plates are 2x4 MT20 unless otherwise indicated.

- 5) Gable studs spaced at 2-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

7) * 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.

8) Bearing at joint(s) 16, 19, 20, 21, 22 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface

9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 18 lb uplift at joint 16, 1019 lb uplift at joint 28, 21 lb uplift at joint 19, 38 lb uplift at joint 17, 67 lb uplift at joint 18, 96 lb uplift at joint 20, 95 lb uplift at joint 21, 96 lb uplift at joint 22, 92 lb uplift at joint 24, 108 lb uplift at joint 25, 434 lb uplift at joint 26 and 15 lb uplift at joint 27. 10) Non Standard bearing condition. Review required.

Continued on page 2 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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 besign value to be only with with these contractions. This besign is based only upon parameters shown, and is to rain individual outdarg 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



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Job	Truss	Truss Type	Qty	Ply	H&H-NC/Kent		
1231742	B01	GABLE	1	1	E10993705		
					Job Reference (optional)		
Probuild East, Albemarle, I	NC 28001			7.64	0 s Aug 16 2017 MiTek Industries, Inc. Wed Sep 27 16:06:34 2017 Page 2		
		ID:h_gUcbIdXiXoqL1mPMfncDza12N-urV7GAgudwWDOdSBEFaAxSWkl8O1lkT9dLUmXcyZ0					

NOTES- (12)

11) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss. 12) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code IRC2009/TPI2007	WB 0.39 (Matrix-S)	Horz(TL) -0.00 Wind(LL) -0.01	5-6 >999 5 n/a 5-6 >999	n/a 240	Weight: 57 lb	FT = 20%
LUMBER- TOP CHORD 2x6 SI 3-4: 2: BOT CHORD 2x6 SI 5-6: 2: WEBS 2x4 SI	^o No.2 *Except* ‹4 SP No.2 ^o No.2 *Except* ‹4 SP No.2 ^o No.3		BRACING- TOP CHORD BOT CHORD	Structural woo Rigid ceiling c	od sheathing d lirectly applied	lirectly applied, except (and verticals.
REACTIONS. (Ib/siz Max H Max L Max C	e) 6=1278/0-5-8, 5=-456/Mechanical lorz 6=141(LC 8) Jplift6=-723(LC 6), 5=-456(LC 1) Grav 6=1278(LC 1), 5=347(LC 6)						
FORCES.(lb) - MaxTOP CHORD1-2=BOT CHORD2-6=WEBS3-6=	imum Compression/Maximum Tension :0/12, 2-3=-1256/1025, 3-4=-87/49, 4-5 -897/1296, 5-6=-293/358 :-1154/1315, 3-5=-285/248	=-188/152					
NOTES- (8) 1) Wind: ASCE 7-05; cantilever left expo grip DOL=1.60	100mph; TCDL=6.0psf; BCDL=6.0psf; sed ; end vertical left exposed;C-C for i	h=25ft; Cat. II; Exp C; enc nembers and forces & MV	losed; MWFRS (low-rise VFRS for reactions show	e) and C-C Ext wn; Lumber DC	erior(2) zone;)L=1.60 plate		

2) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.

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.

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

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 723 lb uplift at joint 6 and 456 lb uplift at joint 5.

7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum sheetrock be applied directly to the bottom chord.

8) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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Job	Truss	Truss Type	Qty	Ply	H&H-NC/Kent		
1231742	B05	JACK-CLOSED GIRDER	2	1	E10993708		
					Job Reference (optional)		
Probuild East, Albe	emarle , NC 28001			7.64	0 s Aug 16 2017 MiTek Industries, Inc. Wed Sep 27 16:06:36 2017 Page 2		
			ID:h_gUcbIdXiXoqL1mPMfncDza12N-qEcuhrh89XmxdxcZLgce1tbx7yt5mUuS5fztbL				

LOAD CASE(S) Standard

Concentrated Loads (lb) Vert: 13=-1090(F) 16=-1450(F)

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Job	Truss	Truss Type	Qty	Ply	H&H-NC/Kent
1231742	C01	GABLE	1	1	E10993709
1201742		GABLE	1	· ·	Job Reference (optional)
Probuild East. Albe	emarle . NC 28001			7.64	0 s Aug 16 2017 MiTek Industries, Inc. Wed Sep 27 16:06:36 2017 Page 2

ID:h_gUcbldXiXoqL1mPMfrcDza12N-qEcuhrh89XmdxcZLgcettb1ny1cmg0S5fztbUyZOcn
 ID:h_gUcbldXiXoqL1mPMfrcDza12N-qEcuhrh89XmdxcZLgcettb1ny1cmg0S5fztbUyZOcn
 is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the
 building designer per ANSI TPI 1 as referenced by the building code.

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BRACING-

TOP CHORD

BOT CHORD

TOP CHORD BOT CHORD WEBS

LUMBER-

OTHERS

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2

2x4 SP No.3

Max Horz 2=-37(LC 7)

2-6=0/26, 4-6=0/26

3-6=-366/283

FORCES. (Ib) - Maximum Compression/Maximum Tension

NOTES- (11)

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

REACTIONS. (lb/size) 2=228/12-0-0, 4=228/12-0-0, 6=549/12-0-0

Max Uplift 2=-102(LC 8), 4=-108(LC 7), 6=-117(LC 8) Max Grav 2=235(LC 13), 4=235(LC 14), 6=549(LC 1)

1-2=0/4, 2-3=-79/63, 3-4=-79/63, 4-5=0/4

2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; 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) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.

5) Gable requires continuous bottom chord bearing.

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

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

8) * 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.

 Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 102 lb uplift at joint 2, 108 lb uplift at joint 4 and 117 lb uplift at joint 6.

10) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

11) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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

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

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	6-0-0						12-0-0					
			6-0-0	1			6-0-0					
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL TCDL	20.0 10.0	Plate Grip DOL Lumber DOL	1.15 1.15	TC BC	0.34 0.32	Vert(LL) Vert(TL)	-0.02 -0.07	6-9 6-9	>999 >999	360 240	MT20	244/190
BCLL BCDL	0.0 * 10.0	Rep Stress Incr Code IRC2009/TI	YES PI2007	WB (Matr	0.09 ix-S)	Horz(TL) Wind(LL)	0.01 0.07	4 6-12	n/a >999	n/a 240	Weight: 41 lb	FT = 20%

LUMBER-

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

REACTIONS. (lb/size) 2=502/0-3-0, 4=503/0-3-0 Max Horz 2=-31(LC 9) Max Uplift2=-243(LC 6), 4=-243(LC 7)

FORCES. (Ib) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/7, 2-3=-786/1017, 3-4=-786/1017, 4-5=0/7

BOT CHORD 2-6=-882/701, 4-6=-882/701 WEBS 3-6=-340/235

NOTES-(8)

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

- 2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left and right exposed; porch 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 basic load combinations, which include cases with reductions for multiple concurrent live loads.

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

5) * 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.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 243 lb uplift at joint 2 and 243 lb uplift at joint 4

7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum sheetrock be applied directly to the bottom chord.

8) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

September 27,2017

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Design valid for use only with MITEk® connectors. This design is based only upon parameters shown, and is for an individual building component, not Design valid for use only with with ever contractors. This design is based only upon parameters shown, and is for an individual outding 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 and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members and properly incorporate this design into the overall building design. Storage, delivery, erection and bracing of trusses and truss systems, see Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

818 Soundside Road Edenton, NC 27932

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied. Rigid ceiling directly applied.

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	Job	Truss	Truss Type	Qty	Ply	H&H-NC/Kent
						E10993714
	1231742	FG01	Flat Girder	1	2	
					_	Job Reference (optional)
1	Probuild East, Albemarle , N	NC 28001			7.64	0 s Aug 16 2017 MiTek Industries, Inc. Wed Sep 27 16:06:40 2017 Page 2
			ID:	h aUcbld)	XiXoaL1m	PMfncDza12N-i?sPXDleCmGN6YwKaWhaBimfZZJciHO10Hx5kFvZOci

NOTES- (15)

- 14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 543 lb down and 467 lb up at 2-0-12, 695 lb down and 284 lb up at 2-0-12, 543 lb down and 467 lb up at 4-0-12, 695 lb down and 284 lb up at 4-0-12, 2477 lb down and 321 lb up at 6-0-4, 695 lb down and 284 lb up at 6-0-12, 696 lb down and 284 lb up at 4-0-12, 696 lb down and 284 lb up at 4-0-12, 696 lb down and 284 lb up at 10-0-12, 696 lb down and 284 lb up at 14-0-12, 696 lb down and 284 lb up at 14-0-12, 2477 lb down and 284 lb up at 14-0-12, 2477 lb down and 284 lb up at 14-0-12, 696 lb down and 284 lb up at 18-0-12, 696 lb down and 284 lb up at 18-0-12, 696 lb down and 284 lb up at 18-0-12, 696 lb down and 284 lb up at 18-0-12, 696 lb down and 284 lb up at 18-0-12, 696 lb down and 284 lb up at 18-0-12, 696 lb down and 284 lb up at 18-0-12, 696 lb down and 284 lb up at 18-0-12, 696 lb down and 284 lb up at 18-0-12, 696 lb down and 284 lb up at 18-0-12, 696 lb down and 284 lb up at 18-0-12, 696 lb down and 284 lb up at 18-0-12, 696 lb down and 284 lb up at 18-0-12, 696 lb down and 284 lb up at 18-0-12, 696 lb down and 284 lb up at 18-0-12, 696 lb down and 284 lb up at 18-0-12, 696 lb do
- 15) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-6=-60, 7-10=-20

Concentrated Loads (lb)

Vert: 9=-3172(F=-2477, B=-695) 8=-3172(F=-2477, B=-696) 11=-1238(F=-543, B=-695) 12=-1238(F=-543, B=-695) 13=-696(B) 14=-696(B) 15=-696(B) 16=-1238(F=-543, B=-696) 17=-1238(F=-543, B=-696) 12=-1238(F=-543, B=-696) 12=-123

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 fabrication, storage, delivery, erection and bracing of trusses and truss systems, see
 MSI/TPTI Quality Criteria, DSB-89 and BCSI Building Component
 Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

