

RE: J0521-2903 Lot 1 C.P. Stewart Rd.

City:

Trenco 818 Soundside Rd Edenton, NC 27932

Site Information: Customer: Project Name: J0521-2903 Lot/Block: Address:

Model: Subdivision: State:

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

Design Code: IRC2015/TPI2014 Wind Code: ASCE 7-10 Roof Load: 40.0 psf

Design Program: MiTek 20/20 8.3 Wind Speed: 130 mph Floor Load: N/A psf

This package includes 31 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	E14466335	A1	5/25/2021	21	E14466355	P1	5/25/2021
2	E14466336	A2	5/25/2021	22	E14466356	P2	5/25/202
3	E14466337	A3	5/25/2021	23	E14466357	P3	5/25/2021
4	E14466338	A4	5/25/2021	24	E14466358	VB-1	5/25/2021
5	E14466339	A5	5/25/2021	25	E14466359	VB-2	5/25/2021
6	E14466340	B1	5/25/2021	26	E14466360	VB-3	5/25/2022
7	E14466341	B2	5/25/2021	27	E14466361	VB-4	5/25/2021
8	E14466342	C1	5/25/2021	28	E14466362	VB-5	5/25/2022
9	E14466343	C2	5/25/2021	29	E14466363	VC-1	5/25/2022
10	E14466344	C3	5/25/2021	30	E14466364	VC-2	5/25/2021
11	E14466345	D1	5/25/2021	31	E14466365	VC-3	5/25/2021
12	E14466346	D2	5/25/2021				
13	E14466347	G1	5/25/2021				
14	E14466348	G2	5/25/2021				
15	E14466349	M1	5/25/2021				
16	E14466350	M2	5/25/2021				
17	E14466351	M3	5/25/2021				
18	E14466352	M4	5/25/2021				
19	E14466353	M5	5/25/2021				
20	E14466354	M6	5/25/2021				

The truss drawing(s) referenced above have been prepared by Truss Engineering Co. under my direct supervision

based on the parameters provided by Comtech, Inc - Fayetteville.

Truss Design Engineer's Name: Gilbert, Eric

My license renewal date for the state of North Carolina is December 31, 2021

North Carolina COA: C-0844

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



Gilbert, Eric



33-0-0
33-0-0

Plate Offsets (X,Y)	[1:0-3-2,0-1-1], [1:0-0-10,1-1-7], [19:0-3-	-2,0-1-1], [19:0-0-10,1-1-7]			
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.04 BC 0.02 WB 0.11 Matrix-S	DEFL. i Vert(LL) 0.00 Vert(CT) 0.00 Horz(CT) 0.01	n (loc) l/defl L/d 0 19 n/r 120 0 19 n/r 120 1 19 n/a n/a	PLATES GRIP MT20 244/190 Weight: 261 lb ET = 20%
LUMBER- TOP CHORD 2x6 SF BOT CHORD 2x6 SF	P No.1 P No.1		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing dire	ectly applied or 6-0-0 oc purlins. rr 10-0-0 oc bracing.

 TOP CHORD
 2x6 SP No.1
 TOP CHORD
 Structural wood sheathing directly applied or 6-0-0 oc purlins.

 BOT CHORD
 2x6 SP No.1
 BOT CHORD
 BOT CHORD

 OTHERS
 2x4 SP No.2
 WEBS
 Rigid ceiling directly applied or 10-0-0 oc bracing.

 WEDGE
 T-Brace:
 2x4 SP No.2 - 10-29

 Left:
 2x4 SP No.2, Right:
 2x4 SP No.2

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

 Rigid ceiling directly applied or 10-0-0 oc bracing.
 T-Brace:
 2x4 SP No.2 - 10-29

 WEDGE
 Fasten (2X) T and I braces to narrow edge of web with 10d
 (0.131"x3") nails, 6in o.c., with 3in minimum end distance.

 Brace must cover 90% of web length.
 Brace must cover 90% of web length.
 Brace must cover 90% of web length.

REACTIONS. All bearings 33-0-0.

 (Ib) - Max Horz 1=-180(LC 17) Max Uplift All uplift 100 lb or less at joint(s) 1, 30, 31, 33, 34, 35, 36, 37, 28, 27, 25, 24, 23, 22, 21 Max Grav All reactions 250 lb or less at joint(s) 1, 29, 30, 31, 33, 34, 35, 36, 37, 28, 27, 25, 24, 23, 22, 21, 19

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

TOP CHORD

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

9-10=-114/289, 10-11=-114/289

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone;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) 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 30.0psf 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.

9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 30, 31, 33, 34, 35, 36, 37, 28, 27, 25, 24, 23, 22, 21.

10) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



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BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

WEBS

TOP CHORD

BOT CHORD

REACTIONS.

TOP CHORD

BOT CHORD

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

(size) 1=Mechanical, 7=0-3-8

Max Uplift 1=-79(LC 12), 7=-91(LC 13) Max Grav 1=1311(LC 1), 7=1364(LC 1)

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

1-12=-347/2015, 9-12=-110/1324, 7-9=-344/1965

1-2=-2297/531, 2-4=-2064/545, 4-6=-2055/529, 6-7=-2283/512

4-9=-142/850, 6-9=-495/297, 4-12=-145/865, 2-12=-509/305

Max Horz 1=-113(LC 8)

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-12 to 4-5-9, Interior(1) 4-5-9 to 16-6-0, Exterior(2) 16-6-0 to 20-10-13, Interior(1) 20-10-13 to 33-8-10 zone; 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 30.0psf 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) Refer to girder(s) for truss to truss connections.

2x6 SP No.1

2x6 SP No.1

2x4 SP No.2

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7.



Structural wood sheathing directly applied or 4-8-4 oc purlins.

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

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Fiale Oils	sets (A, I)	[1.0-0-0,Euge], [7.0-1-0,0	5-0-1]	1		1						
	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	IC	0.33	Vert(LL)	-0.20	8-11	>999	360	M120	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.48	Vert(CT)	-0.28	8-11	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.24	Horz(CT)	0.05	7	n/a	n/a		
BCDL	10.0	Code IRC2015/T	PI2014	Matrix	(-S	Wind(LL)	0.05	1-11	>999	240	Weight: 220 lb	FT = 20%
LUMBER	!-					BRACING-						
TOP CHO	ORD 2x6 S	P No.1				TOP CHOR	D	Structu	iral wood	sheathing d	irectly applied or 4-8-9 of	oc purlins.

BOT CHORD

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

TOP CHORD

2x6 SP No.1 BOT CHORD 2x6 SP No.1 WEBS 2x4 SP No.2

REACTIONS. (size) 1=Mechanical, 7=Mechanical

Max Horz 1=-108(LC 8) Max Uplift 1=-79(LC 12), 7=-78(LC 13)

Max Grav 1=1303(LC 1), 7=1303(LC 1)

- FORCES. (Ib) Max. Comp./Max. Ten. All forces 250 (Ib) or less except when shown.
- TOP CHORD 1-2=-2280/528, 2-4=-2048/543, 4-6=-2021/538, 6-7=-2242/521

BOT CHORD 1-11=-354/1997, 8-11=-116/1306, 7-8=-347/1920

WEBS 4-8=-139/822, 6-8=-473/295, 4-11=-145/866, 2-11=-509/305

NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-12 to 4-5-9, Interior(1) 4-5-9 to 16-6-0, Exterior(2) 16-6-0 to 20-10-13, Interior(1) 20-10-13 to 32-7-12 zone; 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 30.0psf 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) Refer to girder(s) for truss to truss connections.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7.



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L	11-3-	7		21-8-9		1	32-8-8		
	11-3-	-7	1	10-5-3			10-11-15	1	
Plate Offsets (X,Y)	[8:0-1-0,0-0-1]								
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl L/d	PLATES	GRIP	

LOADING (pst) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2015/TPI2014	TC 0.31 BC 0.49 WB 0.23 Matrix-S	DEFL. in (loc) //def Vert(LL) -0.22 9-12 >999 Vert(CT) -0.29 9-12 >999 Horz(CT) 0.05 8 n/a Wind(LL) 0.05 2-12 >999	L/d 360 240 a n/a 240	MT20 244/190 Weight: 207 lb FT = 20%	
LUMBER-	P No 1		BRACING-	nd sheathing dire	actly applied or 4-9-10 oc purlins	

BOT CHORD

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

BOT CHORD 2x6 SP No.1 WEBS 2x4 SP No.2

REACTIONS. (size) 2=0-3-8, 8=Mechanical

Max Horz 2=113(LC 9) Max Uplift 2=-91(LC 12), 8=-78(LC 13) Max Cray 2, 1352(LC 1), 8, 1200(LC 1)

Max Grav 2=1352(LC 1), 8=1299(LC 1)

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

TOP CHORD 2-3=-2261/507, 3-5=-2051/524, 5-7=-2034/536, 7-8=-2238/519

BOT CHORD 2-12=-347/1992, 9-12=-113/1312, 8-9=-341/1925

WEBS 5-9=-137/833, 7-9=-473/294, 5-12=-141/861, 3-12=-495/297

NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 16-6-0, Exterior(2) 16-6-0 to 20-10-13, Interior(1) 20-10-13 to 32-7-12 zone; 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 30.0psf 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) Refer to girder(s) for truss to truss connections.

6) 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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⊢	11-3-7		21-8-9		32-8-8
1	11-3-7	1	10-5-3	1	10-11-15
Plate Offsets (X,Y)	[2:0-1-14,Edge]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc)	l/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.31	Vert(LL) -0.22 9-12	>999 360	MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.49	Vert(CT) -0.29 9-12	>999 240	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.45	Horz(CT) 0.05 8	n/a n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.07 2-12	>999 240	Weight: 274 lb FT = 20%

BRACING-TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2
OTHERS	2x4 SP No 2

REACTIONS. (size) 2=0-3-8, 8=0-3-8 Max Horz 2=180(LC 16) Max Uplift 2=-293(LC 12), 8=-265(LC 13) Max Grav 2=1349(LC 1), 8=1296(LC 1)

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

- TOP CHORD 2-3=-2254/830, 3-5=-2044/833, 5-7=-2019/825, 7-8=-2221/818
- BOT CHORD 2-12=-615/1947, 9-12=-244/1297, 8-9=-602/1906
- WEBS 5-9=-259/807, 7-9=-463/412, 5-12=-272/845, 3-12=-495/423

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone;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 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 30.0psf 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=293, 8=265.



818 Soundside Road Edenton, NC 27932

Structural wood sheathing directly applied or 4-9-13 oc purlins.

Rigid ceiling directly applied or 9-11-5 oc bracing.

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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) 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 30.0psf 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.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8 except (jt=lb) 13=130, 14=189, 11=127, 10=185.
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.



TRENCE AMITEK Affiliate 818 Soundside Road

Edenton, NC 27932

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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 1 C.P. Stewart Rd.	
						E14466341
J0521-2903	B2	COMMON GIRDER	1	2		
					Job Reference (optional)	
Comtech, Inc, Fay	etteville, NC - 28314,			8.330 s Ma	ay 6 2020 MiTek Industries, Inc. Tue Jun 2 13:44:27 202	0 Page 2
		ID:Bo	L?hgXgIY	oqwdOiyU	mcQyz41fz-mw92?HE5tQsWcOZbJOTiVtdWy_a6rWzi1IK	pOxzAlto

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-2=-60, 2-3=-60, 1-3=-20

Concentrated Loads (lb)

Vert: 1=-1293(F) 5=-1283(F) 6=-1279(F) 7=-1279(F) 8=-1279(F) 9=-1281(F)

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LUMBER-

TOP CHORD2x4 SP No.1BOT CHORD2x6 SP No.1OTHERS2x4 SP No.2

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 14-6-0.

(lb) - Max Horz 2=-82(LC 13) Max Uplift All uplift 100 lb or less at joint(s) 2, 8, 13, 11 except 14=-112(LC 12), 10=-112(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 2, 8, 12, 13, 11 except 14=250(LC 1), 10=250(LC 1)

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=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed;
- MWFRS (envelope) gable end zone and C-C Corner(3) -0-10-8 to 3-3-0, Exterior(2) 3-3-0 to 7-3-0, Corner(3) 7-3-0 to 11-7-13, Exterior(2) 11-7-13 to 15-4-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 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 30.0psf 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.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8, 13, 11 except (jt=lb) 14=112, 10=112.



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 property 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

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.



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June 2,2020



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Job		Truss	Truss Type	Qty	Ply	Lot 1 C.P. Stewart Rd.	
						E14466344	
J0521-2903		C3	COMMON GIRDER	1	2		
					_	Job Reference (optional)	
Comtech, Inc, Fayetteville, NC - 28314, 8.330 s May 6 2020 MiTek Industries, Inc. Tue						ay 6 2020 MiTek Industries, Inc. Tue Jun 2 13:44:31 2020 Page 2	
			ID:BoL?hgXgIYpqwdOiyUmcQyz41fz-fiPYqeHbxfNy50sMYEXefjnDQbrwnHYIywI1Xi				

LOAD CASE(S) Standard Concentrated Loads (Ib)

Vert: 5=-1291(B) 6=-1291(B) 7=-1291(B) 8=-1291(B) 9=-1291(B) 10=-1283(B) 11=-1285(B)

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GILU.... June 2,2020



TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x6 SP No.1 *Except* 4-7: 2x10 SP 2400F 2.0E BOT CHORD 2x6 SP No.1 WEBS 2x4 SP No.2

REACTIONS. (size) 7=0-3-8, 2=0-3-8 Max Horz 2=176(LC 11) Max Uplift 7=-57(LC 13), 2=-58(LC 12) Max Grav 7=909(LC 1), 2=949(LC 1)

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

- TOP CHORD 2-3=-1528/386, 3-4=-1206/274, 4-5=-1286/301, 5-6=-2001/430, 6-7=-452/169
- BOT CHORD 2-9=-189/1315, 6-9=-273/2152
- WEBS 3-9=-349/230, 4-9=-109/874, 5-9=-1256/333

NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 10-6-3, Exterior(2) 10-6-3 to 15-1-11, Interior(1) 15-1-11 to 22-6-4 zone;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 30.0psf 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) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

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



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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I			22-0-0		
Plate Offsets (X,Y)	[3:0-0-14,0-1-12], [13:0-0-14,0-1-12], [1	6:0-0-0,0-1-12], [16:0-0-3	,0-9-0], [27:0-0-0,0-1-12], [27:0-0-3	3,0-9-0]	
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.04 BC 0.02 WB 0.06 Matrix-S	DEFL. in (loc) Vert(LL) -0.00 14 Vert(CT) -0.00 15 Horz(CT) 0.00 14	l/defl L/d n/r 120 n/r 120 n/a n/a	PLATES GRIP MT20 244/190 Weight: 134 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD2x4 SP No.1BOT CHORD2x6 SP No.1OTHERS2x4 SP No.2

REACTIONS. All bearings 22-0-0.

(lb) - Max Horz 2=-120(LC 17)

Max Uplift All uplift 100 lb or less at joint(s) 2, 23, 24, 25, 26, 27, 20, 19, 18, 17, 16, 14

Max Grav All reactions 250 lb or less at joint(s) 2, 22, 23, 24, 25, 26, 27, 20, 19, 18, 17, 16, 14

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=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed;
- MWFRS (envelope) gable end zone and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber 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.
- All plates are 2x4 MT20 unless otherwise indicated.
- 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 30.0psf 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.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 23, 24, 25, 26, 27, 20, 19, 18, 17, 16, 14.



818 Soundside Road Edenton, NC 27932

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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	7-4-5 7-4-5	<u> </u>	7-11 3-7		22-0-0 7-4-5	
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2015/TPI2014	CSI. TC 0.28 BC 0.24 WB 0.12 Matrix-S	DEFL. in (loc) Vert(LL) -0.05 8-10 Vert(CT) -0.10 8-10 Horz(CT) 0.02 6 Wind(LL) 0.03 8-10	l/defl L/d >999 360 >999 240 n/a n/a >999 240	PLATES MT20 Weight: 120 lb	GRIP 244/190 FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD2x4 SP No.1BOT CHORD2x6 SP No.1WEBS2x4 SP No.2

REACTIONS. (size) 2=0-3-8, 6=0-3-8 Max Horz 2=-77(LC 10) Max Uplift 2=-66(LC 12), 6=-66(LC 13) Max Grav 2=930(LC 1), 6=930(LC 1)

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

TOP CHORD 2-3=-1464/353, 3-4=-1284/366, 4-5=-1284/366, 5-6=-1464/353

BOT CHORD 2-10=-228/1223, 8-10=-70/829, 6-8=-236/1223

WEBS 4-8=-98/488, 5-8=-284/207, 4-10=-98/489, 3-10=-284/207

NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 11-0-0, Exterior(2) 11-0-0 to 15-4-13, Interior(1) 15-4-13 to 22-10-8 zone; 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 30.0psf 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, 6.



Structural wood sheathing directly applied or 5-0-0 oc purlins.

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

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LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.16 BC 0.05 WB 0.04	DEFL. ir Vert(LL) -0.00 Vert(CT) 0.00 Horz(CT) 0.00	n (loc) l/defl) 1 n/r) 1 n/r) 1 n/a	L/d PLATES 120 MT20 120 n/a	GRIP 244/190
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P			Weight: 40	b FT = 20%
LUMBER- TOP CHORD 2x4 BOT CHORD 2x6	SP No.1 SP No.1		BRACING- TOP CHORD	Structural wood sh except end vertica	neathing directly applied or 6-0)-0 oc purlins,
WEBS 2x6 OTHERS 2x4	SP No.1 SP No.2		BOT CHORD	Rigid ceiling direct	tly applied or 10-0-0 oc bracing	g.

REACTIONS. All bearings 8-2-8.

- (lb) Max Horz 2=109(LC 8)
 - Max Uplift All uplift 100 lb or less at joint(s) 6, 2, 7 except 8=-107(LC 12)
 - Max Grav All reactions 250 lb or less at joint(s) 6, 2, 7 except 8=344(LC 1)
- FORCES. (Ib) Max. Comp./Max. Ten. All forces 250 (Ib) or less except when shown.

WEBS 3-8=-255/218

NOTES-

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 8-1-4 zone; 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 30.0psf 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 except (jt=lb) 8=107.



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			8-4-0		
			8-4-0		
Plate Offsets (X,Y)	[2:1-1-4,0-1-7]				
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.95 BC 0.26 WB 0.00 Matrix-P	DEFL. in Vert(LL) -0.05 Vert(CT) -0.11 Horz(CT) 0.00 Wind(LL) 0.00	(loc) l/defl L/d 2-4 >999 360 2-4 >880 240 n/a n/a 2 **** 240	PLATES GRIP MT20 244/190 Weight: 37 lb FT = 20%
LUMBER- TOP CHORD 2x4 SF BOT CHORD 2x6 SF WEBS 2x6 SF	P No.1 P No.1 P No.1		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing dire except end verticals. Rigid ceiling directly applied o	ectly applied or 2-2-0 oc purlins, r 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 4=0-1-8 Max Horz 2=77(LC 8) Max Uplift 2=-66(LC 8), 4=-41(L

Max Uplift 2=-66(LC 8), 4=-41(LC 12) Max Grav 2=384(LC 1), 4=314(LC 1)

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

NOTES-

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 8-1-4 zone; 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 30.0psf 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.



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	 		<u>8-4-0</u> 8-4-0		
Plate Offsets (X,Y)	[2:1-1-4,0-1-7]				
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrNOCode IRC2015/TPI2014	CSI. TC 0.71 BC 0.86 WB 0.00 Matrix-P	DEFL. ir Vert(LL) -0.11 Vert(CT) -0.26 Horz(CT) 0.00 Wind(LL) 0.17	n (loc) l/defl L/d 2-6 >884 360 5 2-6 >373 240 5 n/a n/a 7 2-6 >569 240	PLATES GRIP MT20 244/190 Weight: 35 lb FT = 20%
LUMBER- TOP CHORD 2x4 SP BOT CHORD 2x6 SP WEBS 2x4 SP 6-7: 2x	No.1 No.1 No.2 "Except" 6 SP No.1		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing d except end verticals. Rigid ceiling directly applied	lirectly applied or 6-0-0 oc purlins, or 7-8-6 oc bracing.
	a) 2-0.2.8 5-Machanical				

REACTIONS. (size) 2=0-3-8, 5=Mechanical Max Horz 2=68(LC 8) Max Lipitt 2= 75(LC 8). 5= 59(LC 1

Max Uplift 2=-75(LC 8), 5=-58(LC 12) Max Grav 2=468(LC 1), 5=656(LC 1)

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

NOTES-

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 7-0-0 zone; 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 30.0psf 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) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 5.
- 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 500 lb down and 265 lb up at
- 7-1-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-3=-60, 3-4=-20, 2-5=-20

Concentrated Loads (lb) Vert: 6=-500



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			8-4-0 8-4-0		I
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2015/TPI2014	CSI. TC 0.66 BC 0.06 WB 0.00 Matrix-P	DEFL. in Vert(LL) -0.01 Vert(CT) 0.01 Horz(CT) 0.00	(loc) l/defl L/d 4 n/r 120 4 n/r 120 6 n/a n/a	PLATES GRIP MT20 244/190 Weight: 37 lb FT = 20%
LUMBER- TOP CHORD 2x4 SF BOT CHORD 2x6 SF WEBS 2x4 SF 6-8: 2x OTHERS 2x4 SF	2 No.1 2 No.1 2 No.2 *Except* 6 SP No.1 2 No.2		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing d except end verticals. Rigid ceiling directly applied	irectly applied or 6-0-0 oc purlins, or 10-0-0 oc bracing.

REACTIONS. (size) 6=8-4-0, 2=8-4-0, 7=8-4-0 Max Horz 2=96(LC 8) Max Uplift 6=-109(LC 12), 2=-133(LC 8) Max Grav 6=235(LC 1), 2=303(LC 1), 7=181(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 7-0-0 zone;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 30.0psf 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) except (jt=lb) 6=109, 2=133.



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LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.40 BC 0.02 WB 0.06 Matrix-P	DEFL. Vert(LL) -0. Vert(CT) 0. Horz(CT) -0.	in (loc) 02 1 01 1 00 4	l/defl n/r n/r n/a	L/d 120 120 n/a	PLATES MT20 Weight: 79 lb	GRIP 244/190 FT = 20%
LUMBER- TOP CHORD 2x6 SP No.1 BRACING- TOP CHORD BOT CHORD 2x6 SP No.1 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. WEBS 2x6 SP No.1 *Except* 2-7: 2x4 SP No.2 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. OTHERS 2x4 SP No.2 Structural wood sheathing directly applied or 10-0-0 oc bracing.						oc purlins,		
REACTIONS. All be (lb) - Max H Max U Max G	earings 8-2-8. lorz 8=271(LC 12) plift All uplift 100 lb or less at joint(s) e rav All reactions 250 lb or less at joint	xcept 4=-206(LC 12), 7=- (s) 5, 6, 7 except 4=311(L	142(LC 12) C 19), 8=311(LC 1)					
FORCES. (lb) - Max. TOP CHORD 3-4=- BOT CHORD 7-8=- WEBS 2-7=-	Comp./Max. Ten All forces 250 (lb) or 301/227, 2-8=-298/0 302/225 265/356	less except when shown						
NOTES- 1) Wind: ASCE 7-10; V MWFRS (envelope) for reactions shown; 2) Truss designed for v Gable End Details a	/ult=130mph (3-second gust) Vasd=103/ gable end zone and C-C Exterior(2) zor Lumber DOL=1.60 plate grip DOL=1.60 vind loads in the plane of the truss only. s applicable, or consult gualified building	mph; TCDL=6.0psf; BCDI ie; porch left and right exp) For studs exposed to wir g designer as per ANSI/Tf	=6.0psf; h=15ft; Cat. bosed;C-C for member nd (normal to the face) Pl 1.	I; Exp C; I s and forc , see Star	Enclosed; ces & MW ndard Indu	FRS stry		

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

4) Gable requires continuous bottom chord bearing.

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 30.0psf 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.

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 206 lb uplift at joint 4 and 142 lb uplift at joint 7.



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A MiTek At



BRACING-TOP CHORD

BOT CHORD

4x6 =

except end verticals.

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

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

LOADING TCLL TCDL	G (psf) 20.0 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	CSI. TC 0.09 BC 0.18	DEFL. Vert(LL) Vert(CT)	in -0.03 -0.06	(loc) 5-6 5-6	l/defl >999 >999	L/d 360 240	PLATES MT20	GRIP 244/190
BCLL	0.0 *	Rep Stress Incr YES	WB 0.16	Horz(CT)	-0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL)	0.07	5-6	>999	240	Weight: 69 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x6 SP No.1 *Except*
	3-5: 2x4 SP No.2

REACTIONS. (size) 6=0-3-0, 5=0-1-8 Max Horz 6=178(LC 12) Max Uplift 6=-27(LC 9), 5=-143(LC 9) Max Grav 6=376(LC 1), 5=310(LC 1)

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

TOP CHORD 2-3=-268/39, 2-6=-290/86

BOT CHORD5-6=-250/259WEBS3-5=-313/285

NOTES-

1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-12 to 3-7-11, Interior(1) 3-7-11 to 8-1-0 zone; end vertical left 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

2x6 |

ł

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 30.0psf 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) 5 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) 5.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 27 lb uplift at joint 6 and 143 lb uplift at joint 5.



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	6-5-0 6-5-0				<u>12-10-0</u> 6-5-0		
Plate Offsets (X,Y)	[2:0-0-5,Edge], [4:0-0-5,Edge]						
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2015/TPI2014	CSI. TC 0.44 BC 0.34 WB 0.07 Matrix-S	DEFL. ir Vert(LL) 0.11 Vert(CT) -0.09 Horz(CT) 0.01	n (loc) l/d 4-6 >99 2-6 >99 4 r	defl L/d 199 240 199 240 n/a n/a	PLATES MT20 Weight: 51 lb	GRIP 244/190 FT = 20%
LUMBER- TOP CHORD 2x4 S BOT CHORD 2x4 S WEBS 2x4 S OTHERS 2x4 S REACTIONS. (si Max	P No.1 P No.1 P No.2 P No.2 ze) 2=0-3-0, 4=0-3-0 Horz 2=-49(LC 17)		BRACING- TOP CHORD BOT CHORD	Structural w Rigid ceilino	wood sheathing dir g directly applied c	ectly applied or 5-9-9 or 6-6-10 oc bracing.	oc purlins.
Max Max	Uplift 2=-309(LC 8), 4=-309(LC 9) Grav 2=563(LC 1), 4=563(LC 1)	loss accept when shown					
TOP CHORD 2-3: BOT CHORD 2-6: WEBS 3-6:	910/965, 3-4=-910/965 =-828/799, 4-6=-828/799 =-883/303						
NOTES- 1) Unbalanced roof liv	ve loads have been considered for this de	sign.					

- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 6-5-0, Exterior(2) 6-5-0 to 10-9-13, Interior(1) 10-9-13 to 13-8-8 zone; 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) 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 studs spaced at 2-0-0 oc.

3x4 =

- 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 30.0psf 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 309 lb uplift at joint 2 and 309 lb uplift at joint 4.



3x4 =

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	6-5-0			12-10-0		
	6-5-0		1	6-5-0		I
Plate Offsets (X,Y)	[2:0-0-5,Edge], [4:0-0-5,Edge]					
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.44 BC 0.34 WB 0.07 Matrix-S	DEFL. in Vert(LL) 0.11 Vert(CT) -0.09 Horz(CT) 0.01	(loc) l/defl L/d 4-6 >999 240 2-6 >999 240 4 n/a n/a	PLATES MT20 Weight: 45 lb	GRIP 244/190 FT = 20%
LUMBER- TOP CHORD BOT CHORD WEBS REACTIONS. (s Max Max	SP No.1 SP No.1 SP No.2 ize) 2=0-3-0, 4=0-3-0 Horz 2=-29(LC 13) Uplift 2=-217(LC 8). 4=-217(LC 9)		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing Rigid ceiling directly applie	directly applied or 5-9-9 d or 6-6-10 oc bracing.	oc purlins.
FORCES. (Ib) - Ma TOP CHORD 2-3 BOT CHORD 2-6 WEBS 3-6	Grav 2=563(LC 1), 4=563(LC 1) x. Comp./Max. Ten All forces 250 (lb) o =-910/965, 3-4=-910/965 =-828/799, 4-6=-828/799 =-383/303	r less except when shown.				
NOTES- 1) Unbalanced roof li 2) Wind: ASCE 7-10	ve loads have been considered for this de Vult=130mph (3-second gust) Vasd=103	esign. mph; TCDL=6.0psf; BCDL=6.0	psf; h=15ft; Cat. II; E	xp C; Enclosed;		

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0pst; BCDL=6.0pst; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 6-5-0, Exterior(2) 6-5-0 to 10-9-13, Interior(1) 10-9-13 to 13-8-8 zone; 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 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 30.0psf 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 217 lb uplift at joint 2 and 217 lb uplift at joint 4.



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L	6-5-0					12-10-0		
	6-5-0					6-5-0		
Plate Offsets (X,Y)	[2:0-0-5,Edge], [4:0-0-5,Edge]							
LOADING(psf)TCLL20.0TCDL10.0BCLL0.0BCDL10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCodeIRC2015/TPI2014	CSI. TC 0.48 BC 0.35 WB 0.07 Matrix-S	DEFL. Vert(LL) 0.1 Vert(CT) -0.0 Horz(CT) 0.0	in (loc) 1 4-5 9 4-5 01 4	l/defl >999 >999 n/a	L/d 240 240 n/a	PLATES MT20 Weight: 44 lb	GRIP 244/190 FT = 20%
LUMBER- TOP CHORD 2x4 S BOT CHORD 2x4 S WEBS 2x4 S	SP No.1 SP No.1 SP No.2		BRACING- TOP CHORD BOT CHORD	Structu Rigid ce	ral wood eiling dire	sheathing directed applied or	ctly applied or 5-7-1 6-4-14 oc bracing.	0 oc purlins.
REACTIONS. (s Max Max Max	ize) 4=0-3-0, 2=0-3-0 Horz 2=32(LC 12) Uplift 4=-179(LC 9), 2=-217(LC 8) Grav 4=501(LC 1), 2=566(LC 1)							
FORCES.(lb) - MaTOP CHORD2-3BOT CHORD2-5WEBS3-5	x. Comp./Max. Ten All forces 250 (lb) or =-918/984, 3-4=-916/993 =-866/807, 4-5=-866/807 =-386/305	less except when shown.						
NOTES- 1) Unbalanced roof li	ve loads have been considered for this de	sign.						

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 6-5-0, Exterior(2) 6-5-0 to 10-9-13, Interior(1) 10-9-13 to 12-8-8 zone; 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 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 30.0psf 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 179 lb uplift at joint 4 and 217 lb uplift at joint 2.



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REACTIONS. (size) 1=10-0-8, 3=10-0-8, 4=10-0-8 Max Horz 1=112(LC 9) Max Uplift 1=-28(LC 13), 3=-28(LC 13) Max Grav 1=212(LC 1), 3=212(LC 1), 4=324(LC 1)

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=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate orip DOL=1.60

3) Gable requires continuous bottom chord bearing.

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 30.0psf 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 28 lb uplift at joint 1 and 28 lb uplift at joint 3.



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LUMBER-

TOP CHORD 2x4 SP No.1 BOT CHORD 2x4 SP No.1 OTHERS

2x4 SP No.2

REACTIONS. (size) 1=8-0-8, 3=8-0-8, 4=8-0-8 Max Horz 1=-88(LC 10) Max Uplift 1=-32(LC 13), 3=-32(LC 13) Max Grav 1=179(LC 1), 3=179(LC 1), 4=230(LC 1)

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=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Gable requires continuous bottom chord bearing.

- 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 30.0psf 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 32 lb uplift at joint 1 and 32 lb uplift at joint 3.



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BOT CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.





LUMBER-

TOP CHORD2x4 SP No.1BOT CHORD2x4 SP No.1OTHERS2x4 SP No.2

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=6-0-8, 3=6-0-8, 4=6-0-8 Max Horz 1=64(LC 9) Max Uplift 1=-23(LC 13), 3=-23(LC 13) Max Grav 1=130(LC 1), 3=130(LC 1), 4=167(LC 1)

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=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate orip DOL=1.60

3) Gable requires continuous bottom chord bearing.

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 30.0psf 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 23 lb uplift at joint 1 and 23 lb uplift at joint 3.



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Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

0.00

3

n/a

n/a

Structural wood sheathing directly applied or 4-0-8 oc purlins.

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

Weight: 15 lb

FT = 20%

BCLL

BCDL

LUMBER-

OTHERS REACTIONS.

TOP CHORD

BOT CHORD

0.0

2x4 SP No.1

2x4 SP No.1

2x4 SP No.2

Max Horz 1=-40(LC 10)

10.0

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.

Rep Stress Incr

(size) 1=4-0-8, 3=4-0-8, 4=4-0-8

Max Uplift 1=-14(LC 13), 3=-14(LC 13) Max Grav 1=81(LC 1), 3=81(LC 1), 4=104(LC 1)

Code IRC2015/TPI2014

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate orip DOL=1.60

WB

Matrix-P

0.01

3) Gable requires continuous bottom chord bearing.

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

YES

- 5) * This truss has been designed for a live load of 30.0psf 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 14 lb uplift at joint 1 and 14 lb uplift at joint 3.



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2x4 🥢

2x4 🚿

2-0-8 2-0-8 Plate Offsets (X,Y)--[2:0-2-0,Edge] LOADING (psf) SPACING-CSI. DEFL. PLATES GRIP 2-0-0 in (loc) l/defl I/d Plate Grip DOL TCLL 20.0 1.15 тс 0.01 Vert(LL) 244/190 n/a n/a 999 MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.01 Vert(CT) n/a n/a 999 BCLL 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.00 3 n/a n/a BCDL 10.0 Code IRC2015/TPI2014 Matrix-P Weight: 6 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.1 BOT CHORD 2x4 SP No.1

REACTIONS. (size) 1=2-0-8, 3=2-0-8 Max Horz 1=-16(LC 8) Max Uplift 1=-2(LC 12), 3=-2(LC 12) Max Grav 1=54(LC 1), 3=54(LC 1)

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=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate orip DOL=1.60

3) Gable requires continuous bottom chord bearing.

- 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 30.0psf 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 2 lb uplift at joint 1 and 2 lb uplift at joint 3.



Structural wood sheathing directly applied or 2-0-8 oc purlins.

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

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A MiTek Affilia 818 Soundside Road Edenton, NC 27932



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

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-7-7 to 5-0-3, Interior(1) 5-0-3 to 5-5-0, Exterior(2) 5-5-0 to 9-9-13, Interior(1) 9-9-13 to 10-2-10 zone;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 30.0psf 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 23 lb uplift at joint 1 and 29 lb uplift at joint 3.

6) Non Standard bearing condition. Review required.



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REACTIONS. (size) 1=6-10-1, 3=6-10-1, 4=6-10-1 Max Horz 1=-18(LC 8) Max Uplift 1=-18(LC 12), 3=-21(LC 13) Max Grav 1=114(LC 1), 3=114(LC 1), 4=220(LC 1)

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=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone;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 30.0psf 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 18 lb uplift at joint 1 and 21 lb uplift at joint 3.

6) Non Standard bearing condition. Review required.



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2x4 💋

2x4 📚

TOP CHORD

BOT CHORD

	2-10-1										
Plate Offsets (X,Y)	[2:0-2-0,Edge]										
LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC	0.01	Vert(LL)	n/a	-	n/a	999	MT20	244/190
CDL 10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
3CLL 0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P							Weight: 7 lb	FT = 20%
LUMBER-					BRACING-					I	

LUMBER-

TOP CHORD 2x4 SP No.1 BOT CHORD 2x4 SP No.1

REACTIONS. (size) 1=2-10-1, 3=2-10-1 Max Horz 1=-5(LC 8) Max Uplift 1=-4(LC 12), 3=-4(LC 13) Max Grav 1=64(LC 1), 3=64(LC 1)

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

NOTES-

3.

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

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone;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 30.0psf 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 4 lb uplift at joint 1 and 4 lb uplift at joint

6) Non Standard bearing condition. Review required.



Structural wood sheathing directly applied or 2-10-1 oc purlins.

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

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