

Trenco 818 Soundside Rd Edenton, NC 27932

Re: 20705A 140.1582.B

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by 84 Components - #2383.

Pages or sheets covered by this seal: I36979461 thru I36979480

My license renewal date for the state of North Carolina is December 31, 2019.

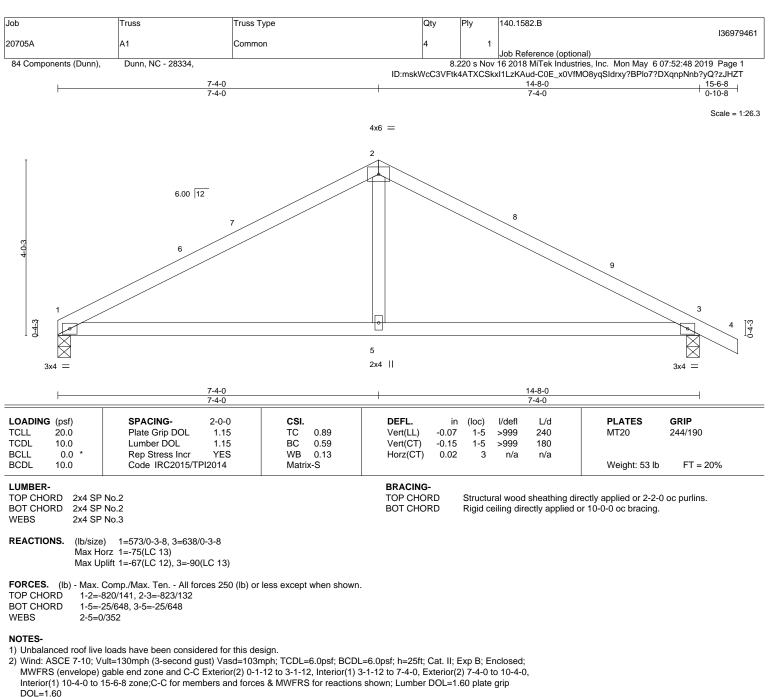
North Carolina COA: C-0844



May 6,2019

Sevier, Scott

IMPORTANT NOTE: Truss Engineer's responsibility is solely for design of individual trusses based upon design parameters shown on referenced truss drawings. Parameters have not been verified as appropriate for any use. Any location identification specified is for file reference only and has not been used in preparing design. Suitability of truss designs for any particular building is the responsibility of the building designer, not the Truss Engineer, per ANSI/TPI-1, Chapter 2.



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

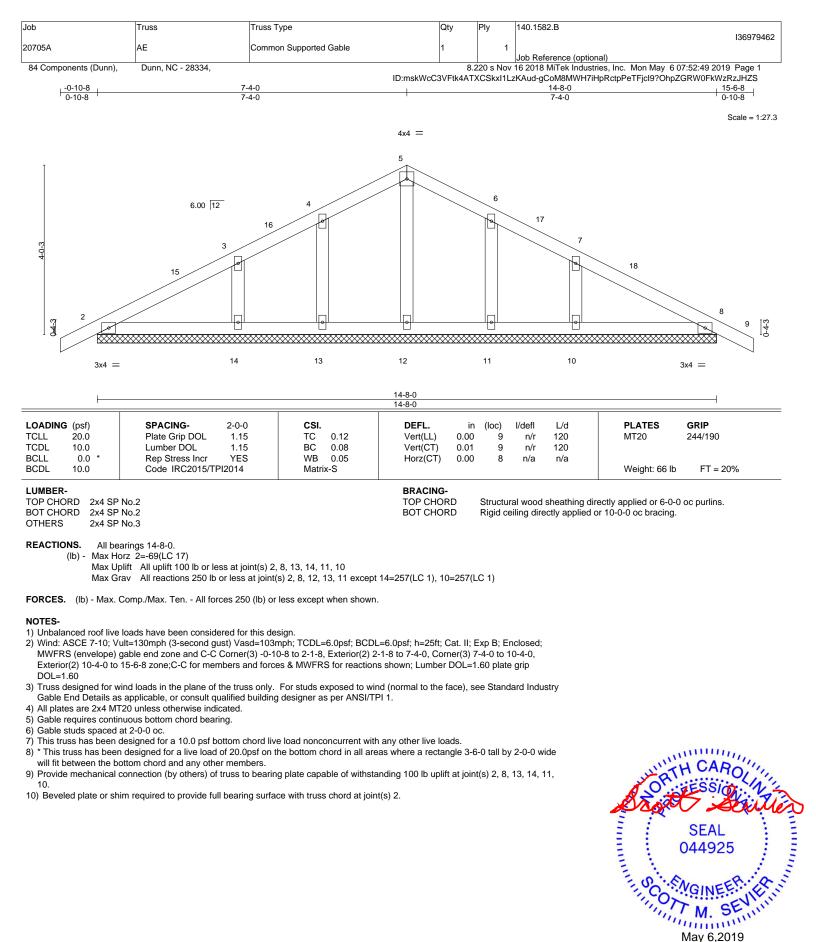
will fit between the bottom chord and any other members. 5) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1 and 3. This connection is for

b) One RT/A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1 and 3. This connection is for uplift only and does not consider lateral forces.



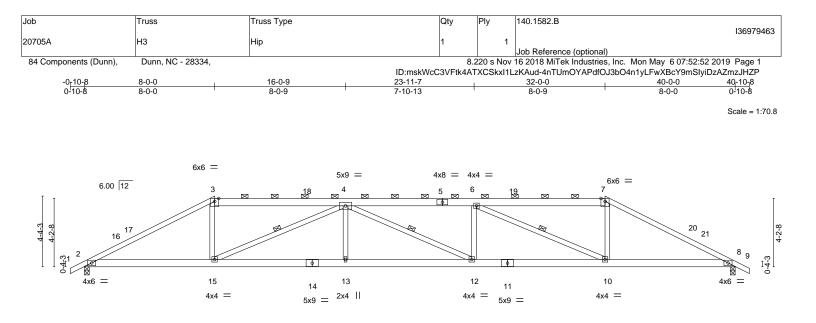
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designe. 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/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.





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	8-0-0	16-0-9		23-11-7			32-0		40-0-0	
	8-0-0	8-0-9	1	7-10-13			8-0-	9	8-0-0	1
DADING (psf)	SPACING- 2	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
CLL 20.0	Plate Grip DOL	1.15	TC 0.69	Vert(LL)	-0.28	12-13	>999	240	MT20	244/190
CDL 10.0	Lumber DOL	1.15	BC 0.81	Vert(CT)	-0.57	12-13	>841	180		
CLL 0.0 *	Rep Stress Incr	YES	WB 0.74	Horz(CT)	0.15	8	n/a	n/a		
CDL 10.0	Code IRC2015/TPI20	014	Matrix-S						Weight: 238 lb	FT = 20%
				TOP CHO BOT CHO WEBS		2-0-0 c Rigid c	oc purlins	(3-4-6 max.): ectly applied o	rectly applied or 2-2-0 o 3-7. or 9-8-11 oc bracing. -15, 4-12, 6-10	so parmio, oxoopi
EACTIONS. (Ib/size	e) 2=1650/0-3-8, 8=1650/0 prz 2=72(LC 12))-3-8								

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

TOP CHORD 2-3=-3095/451, 3-4=-2654/462, 4-6=-4114/630, 6-7=-2653/463, 7-8=-3095/451

BOT CHORD 2-15=-317/2684, 13-15=-574/4113, 12-13=-574/4113, 10-12=-553/4114, 8-10=-301/2684

WEBS 3-15=-44/907, 4-15=-1722/358, 4-13=0/311, 6-12=0/311, 6-10=-1723/357, 7-10=-44/907

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=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 3-1-8, Interior(1) 3-1-8 to 8-0-0, Exterior(2) 8-0-0 to 13-7-14, Interior(1) 13-7-14 to 32-0-0, Exterior(2) 32-0-0 to 37-7-14, Interior(1) 37-7-14 to 40-10-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Provide adequate drainage to prevent water ponding.

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.

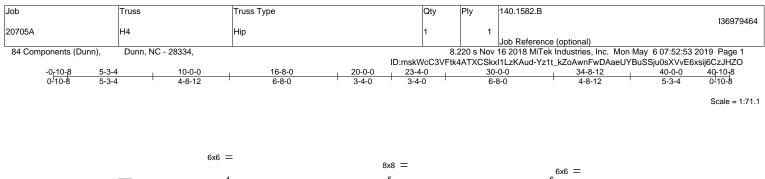
6) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 8. This connection is for uplift only and does not consider lateral forces.

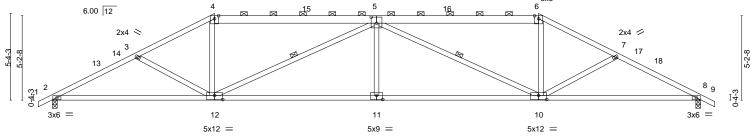
7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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A MiTek Affiliate 818 Soundside Road Edenton, NC 27932





	10-0-0 10-0-0	<u>20-0-0</u> 10-0-0		30-0-0 10-0-0	40-0-0 10-0-0
Plate Offsets (X,Y)	[5:0-4-0,0-4-8], [10:0-6-0,0-3-0], [11:0-	4-8,0-3-0], [12:0-6-0,0-3-0]			
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 0.63 BC 0.92 WB 0.76 Matrix-S	Vert(LL) -0.2	4 10-11 >875 180	MT20 244/190
4-5,5- BOT CHORD 2x4 SI	P No.2 *Except* 6: 2x6 SP No.2 P No.1 P No.3		BRACING- TOP CHORD BOT CHORD WEBS	2-0-0 oc purlins (3-9-1	ning directly applied or 2-8-9 oc purlins, except max.): 4-6. oplied or 2-2-0 oc bracing. 5-12, 5-10
	e) 2=1650/0-3-8, 8=1650/0-3-8 lorz 2=89(LC 12) Jplift 2=-131(LC 9), 8=-131(LC 8)				

- FORCES. (lb) Max. Comp./Max. Ten. All forces 250 (lb) or less except when shown.
- 2-3=-3026/512, 3-4=-2771/434, 4-5=-2446/428, 5-6=-2446/428, 6-7=-2771/434, TOP CHORD 7-8=-3026/512
- BOT CHORD
- 2-12=-391/2643, 11-12=-404/3410, 10-11=-404/3410, 8-10=-393/2643
- WEBS 4-12=-25/794, 5-12=-1187/281, 5-11=0/383, 5-10=-1187/280, 6-10=-25/794

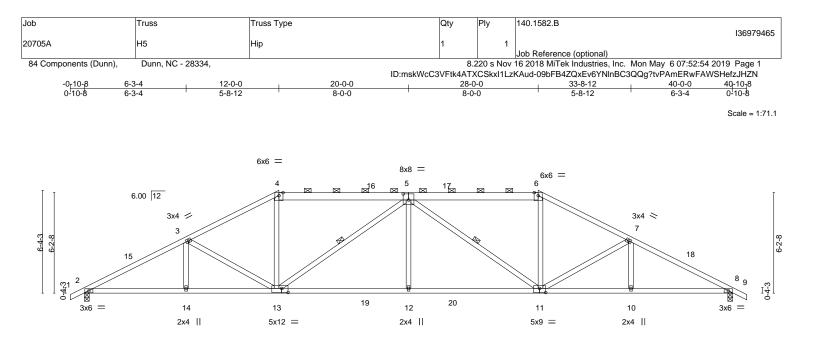
NOTES-

- 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=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 3-1-8, Interior(1) 3-1-8 to 10-0-0, Exterior(2) 10-0-0 to 15-7-14, Interior(1) 15-7-14 to 30-0-0, Exterior(2) 30-0-0 to 35-7-14, Interior(1) 35-7-14 to 40-10-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 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) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 8. This connection is for
- uplift only and does not consider lateral forces.
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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L	6-3-4 12-0-0	20-0-0	28-0-0	33-8-12	40-0	
	<u>6-3-4</u> <u>5-8-12</u>	8-0-0	8-0-0	5-8-12	6-3	-4
Plate Offsets (X,Y)	[5:0-4-0,0-4-8], [11:0-4-8,0-3-0], [13:0-4	12,0-3-0]				
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 0.68 BC 0.99 WB 0.41 Matrix-S	DEFL. in (loc) l/defl Vert(LL) -0.21 12 >999 Vert(CT) -0.47 12-13 >999 Horz(CT) 0.18 8 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 220 lb	GRIP 244/190 FT = 20%
BOT CHORD 4-5,5 2x4 \$ 2x4 \$ WEBS 2x4 \$ REACTIONS. (lb/s)	SP No.2 *Except* i-6: 2x6 SP No.2 SP No.2 SP No.3 ize) 2=1650/0-3-8, 8=1650/0-3-8		2-0-0 oc purlin:	s (4-5-15 max.): 4 rectly applied or 2		oc purlins, except
FORCES. (lb) - Ma TOP CHORD 2-3 7-8 BOT CHORD 2-1 8- WEBS 3-1	Horz 2=106(LC 12) Uplift 2=-142(LC 12), 8=-142(LC 13) x. Comp./Max. Ten All forces 250 (lb) c =-3067/461, 3-4=-2589/439, 4-5=-2244/4 =-3067/461 4=-339/2656, 13-14=-339/2656, 12-13=- 10=-341/2657 3=-46/187, 4-13=-41/755, 5-13=-802/18 1=-41/753, 7-11=-467/187	35, 5-6=-2249/436, 6-7=-2 276/2779, 11-12=-276/277	586/439, 9, 10-11=-341/2657,			
NOTES- 1) Unbalanced roof II 2) Wind: ASCE 7-10; MWFRS (envelop Interior(1) 17-7-14 MWFRS for reacti 3) Provide adequate	ive loads have been considered for this d ; Vult=130mph (3-second gust) Vasd=103 e) gable end zone and C-C Exterior(2)-0 to 28-0-0, Exterior(2) 28-0-0 to 33-8-12, ons shown; Lumber DOL=1.60 plate grip drainage to prevent water ponding.	mph; TCDL=6.0psf; BCDL 10-8 to 3-1-8, Interior(1) 3 Interior(1) 33-8-12 to 40-10 DOL=1.60	-1-8 to 12-0-0, Exterior(2) 12-0-0 to 17-7 0-8 zone;C-C for members and forces &		unun t	A CARO

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.

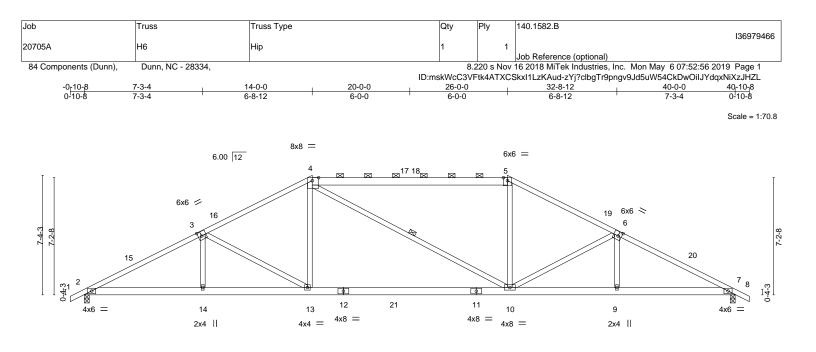
6) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 8. This connection is for uplift only and does not consider lateral forces.

7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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L	7-3-4	14-0-0	20-0-0	26-0-0	32-8-12	40-0-0
	7-3-4	6-8-12	6-0-0	6-0-0	6-8-12	7-3-4
Plate Offsets (X,Y)	[3:0-2-8,0-3-4], [4:0-4	-10,Edge], [6:0-2-8,	0-3-4]			
LOADING (psf) TCLL 20.0 TCDL 10.0	SPACING- Plate Grip DOL Lumber DOL	2-0-0 - 1.15 1.15	CSI. TC 0.72 BC 0.72	DEFL. in (I Vert(LL) -0.21 10- Vert(CT) -0.47 10-	13 >999 240	PLATES GRIP MT20 244/190
BCLL 0.0 * BCDL 10.0	Rep Stress Inc Code IRC201	r YES	WB 0.61 Matrix-S	Horz(CT) 0.10	7 n/a n/a	Weight: 242 lb FT = 20%
4-5: 2:	P No.2 *Except* k6 SP DSS			ex	cept	tly applied or 2-5-12 oc purlins,
WEBS 2x4 S	P No.2 P No.3 *Except* 2x4 SP No.2			BOT CHORD Rig	0-0 oc purlins (4-0-8 max.): 4- gid ceiling directly applied or Row at midpt 4-1	10-0-0 oc bracing.

REACTIONS. (lb/size) 2=1650/0-3-8, 7=1650/0-3-8 Max Horz 2=122(LC 12) Max Uplift 2=-162(LC 12), 7=-162(LC 13)

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

TOP CHORD 2-3=-3064/453, 3-4=-2486/416, 4-5=-2147/429, 5-6=-2488/416, 6-7=-3063/454

- BOT CHORD 2-14=-321/2657, 13-14=-319/2662, 10-13=-169/2145, 9-10=-324/2661, 7-9=-327/2656
- WEBS 3-13=-578/232, 4-13=0/609, 5-10=0/610, 6-10=-576/234

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=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 3-1-8, Interior(1) 3-1-8 to 14-0-0, Exterior(2) 14-0-0 to 19-7-14, Interior(1) 19-7-14 to 26-0-0, Exterior(2) 26-0-0 to 31-7-14, Interior(1) 31-7-14 to 40-10-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Provide adequate drainage to prevent water ponding.

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) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 7. This connection is for uplift only and does not consider lateral forces.

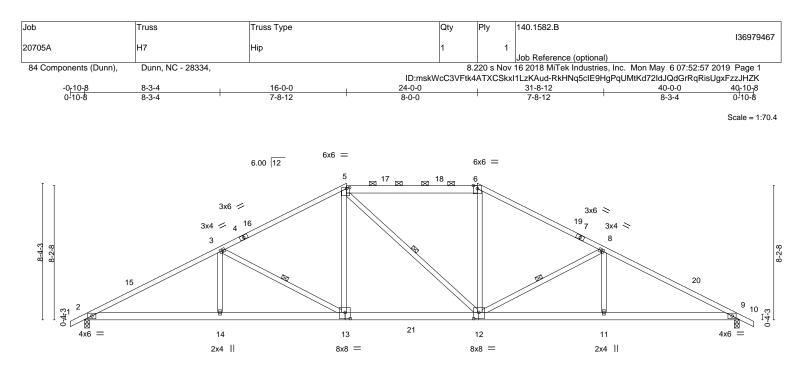
7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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Edenton, NC 27932



	8-3-4	16-0-0 7-8-12	24-0-0 8-0-0	31-8-12	40-0-0
Plate Offsets (X,Y)	[5:0-2-4,0-0-12], [12:0-3-12,0-4-8],	[13:0-3-12,0-4-8]			
OADING (psf) CLL 20.0 CDL 10.0 SCLL 0.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.98 BC 0.71 WB 0.30	Vert(LL) -0.15	n (loc) l/defl L/d 5 12-13 >999 240 2 12-13 >999 180) 9 n/a n/a	PLATES GRIP MT20 244/190
CDL 10.0	Code IRC2015/TPI2014	Matrix-S		, <u> </u>	Weight: 243 lb FT = 20%
5-6: 2 30T CHORD 2x6 S	P No.2 *Except* x6 SP No.2 P No.2 P No.3		BRACING- TOP CHORD BOT CHORD WEBS	Structural wood sheathing dir 2-0-0 cc purlins (4-5-1 max.): Rigid ceiling directly applied c 1 Row at midpt 3	5-6.
Max	ze) 2=1650/0-3-8, 9=1650/0-3-8 Horz 2=139(LC 16) Uplift 2=-180(LC 12), 9=-180(LC 13)				
OP CHORD 2-3=	Comp./Max. Ten All forces 250 (=-3025/428, 3-5=-2293/407, 5-6=-19 !=-288/2610, 13-14=-288/2610, 12-1	55/422, 6-8=-2294/407, 8-9=-	3024/428		

WEBS 3-14=0/347, 3-13=-745/251, 5-13=-21/569, 6-12=-1/570, 8-12=-744/252, 8-11=0/346

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=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 3-1-8, Interior(1) 3-1-8 to 16-0-0, Exterior(2) 16-0-0 to 21-7-14, Interior(1) 21-7-14 to 24-0-0, Exterior(2) 24-0-0 to 29-7-14, Interior(1) 29-7-14 to 40-10-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Provide adequate drainage to prevent water ponding.

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.

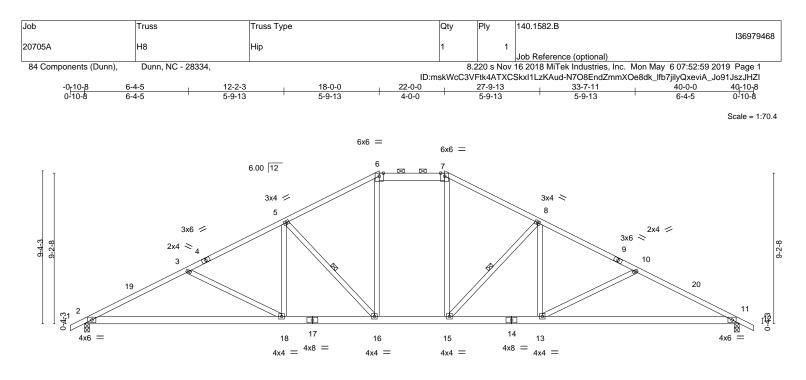
6) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 9. This connection is for uplift only and does not consider lateral forces.

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	9-3-4 9-3-4	12-2-3 2-10-15	18-0-0 5-9-13	22-0-0	27-9-13 5-9-13	30-8-12 2-10-15	40-0-0 9-3-4	
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 *	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES	CSI. TC 0.60 BC 0.82 WB 0.35	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.20 13-15 -0.46 2-18 0.10 11	l/defl L/d >999 240 >999 180 n/a n/a	PLATES GRIP MT20 244/19	0
BCDL 10.0	Code IRC2015/TP	-	Matrix-S		0.10 11	11/a 11/a	Weight: 251 lb FT =	20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2 *Except*	TOP CHORD	Structural wood sheathing directly applied or 2-7-13 oc purlins,
	6-7: 2x6 SP No.2		except
BOT CHORD	2x6 SP No.2		2-0-0 oc purlins (5-6-9 max.): 6-7.
WEBS	2x4 SP No.3	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
		WEBS	1 Row at midpt 5-16, 8-15
REACTIONS.	(lb/size) 2=1650/0-3-8, 11=1650/0-3-8		
	Max Horz 2=156(LC 12)		
	Max Uplift 2=-196(LC 12), 11=-196(LC 13)		

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

TOP CHORD 2-3=-3020/442, 3-5=-2613/382, 5-6=-2057/407, 6-7=-1768/393, 7-8=-2057/407,

8-10=-2613/382, 10-11=-3020/442

 BOT CHORD
 2-18=-403/2632, 16-18=-194/2265, 15-16=-78/1768, 13-15=-181/2265, 11-13=-320/2632

 WEBS
 3-18=-412/234, 5-18=-8/540, 5-16=-796/225, 6-16=-67/582, 7-15=-67/582, 8-15=-796/225, 8-13=-9/540, 10-13=-412/235

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=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 3-1-8, Interior(1) 3-1-8 to 18-0-0, Exterior(2) 18-0-0 to 27-9-13, Interior(1) 27-9-13 to 40-10-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Provide adequate drainage to prevent water ponding.

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.

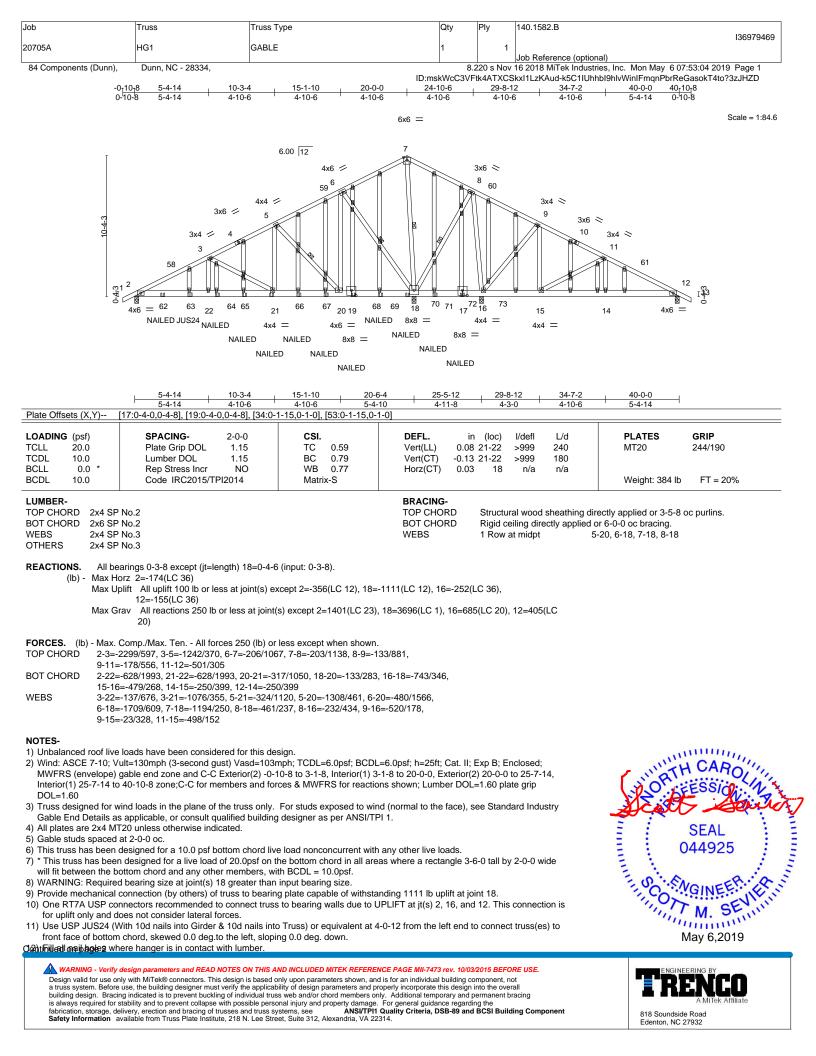
6) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 11. This connection is for uplift only and does not consider lateral forces.

7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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 a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designe. 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/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

818 Soundside Road Edenton, NC 27932



Job	Truss	Truss Type	Qty	Ply	140.1582.B
007054					136979469
20705A	HG1	GABLE	1	1	lah Defarance (antional)
					Job Reference (optional)
84 Components (Dunn),	Dunn, NC - 28334,		8.	220 s Nov	16 2018 MiTek Industries, Inc. Mon May 6 07:53:04 2019 Page 2
		ID:ms	kWcC3VF	tk4ATXCS	kxI1LzKAud-k5C1IUhhbl9hlvWinIFmqnPbrReGasokT4to?3zJHZD

NOTES-

13) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.

14) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

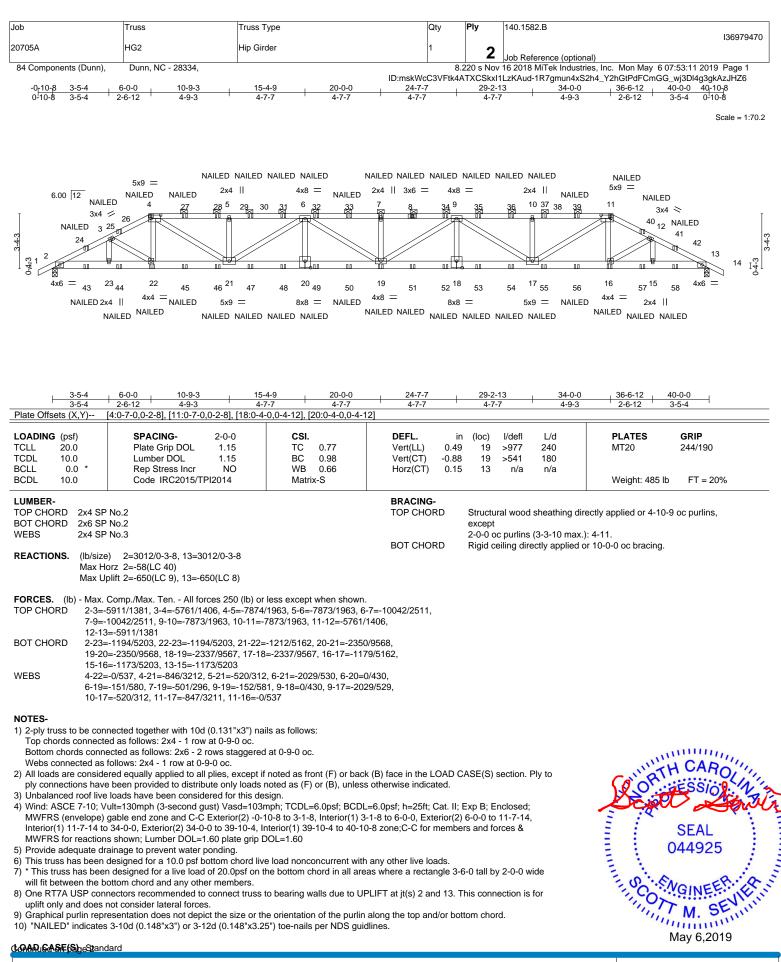
Uniform Loads (plf) Vert: 1-7=-60, 7-13=-60, 2-12=-20

Concentrated Loads (lb)

Vert: 21=-210(F) 19=-210(F) 17=-210(F) 62=-209(F) 63=-210(F) 64=-210(F) 65=-210(F) 66=-210(F) 67=-210(F) 69=-210(F) 70=-210(F) 71=-210(F)

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 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 preven 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 **ANSUTPTI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.





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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	140.1582.B
					136979470
20705A	HG2	Hip Girder	1	2	
				2	Job Reference (optional)
84 Components (Dunn),	Dunn, NC - 28334,		8.2	220 s Nov	16 2018 MiTek Industries, Inc. Mon May 6 07:53:11 2019 Page 2

ID:mskWcC3VFtk4ATXCSkxI1LzKAud-1R7gmun4xS2h4_Y2hGtPdFCmGG_wj3Dl4g3gkAzJHZ6

LOAD CASE(S) Standard

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

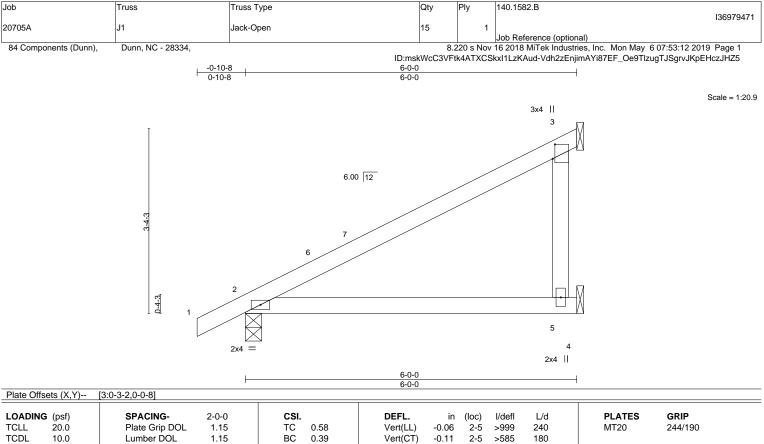
Uniform Loads (plf) Vert: 1-4=-60, 4-11=-60, 11-14=-60, 2-13=-20

Concentrated Loads (lb)

Vert: 4=-101(F) 8=-101(F) 11=-101(F) 22=-42(F) 19=-42(F) 7=-101(F) 16=-42(F) 24=-90(F) 27=-101(F) 28=-101(F) 30=-101(F) 31=-101(F) 32=-101(F) 33=-101(F) 33=-101(F) 33=-101(F) 35=-101(F) 35=-100(F) 3

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 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 preven 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 **ANSUTPTI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.





	-	No 2		BRACING-	Structu	ral wood	sheathin	- -
BCDL	10.0	Code IRC2015/TPI2014	Matrix-P					
BCLL	0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.0	0 3	n/a	n/a	
TODL	10.0	Lumber DOL 1.15	BC 0.39	ven(CT) -0.1	1 2-5	>585	180	

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

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

Weight: 25 lb

REACTIONS. (Ib/size) 2=289/0-3-8, 3=161/Mechanical, 5=62/Mechanical Max Horz 2=125(LC 12) Max Uplift 2=-36(LC 12), 3=-101(LC 12) Max Grav 2=289(LC 1), 3=161(LC 1), 5=123(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=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 5-8-8 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 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) Refer to girder(s) for truss to truss connections.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 101 lb uplift at joint 3.

6) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.

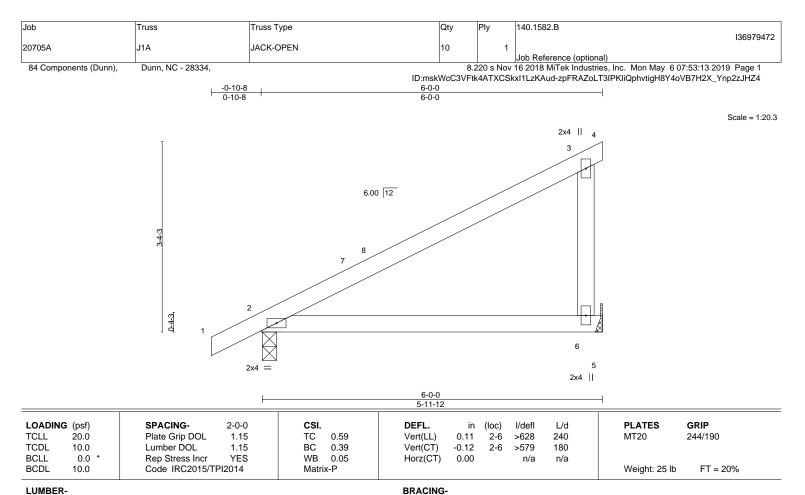
7) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.



818 Soundside Road Edenton, NC 27932

FT = 20%

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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

LUMBER-

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

2x4 SP No.3 WEBS

REACTIONS. 2=288/0-3-0, 6=230/Mechanical (lb/size) Max Horz 2=130(LC 12) Max Uplift 2=-33(LC 12), 6=-73(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) 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=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 6-0-0 zone; porch left 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) Refer to girder(s) for truss to truss connections.

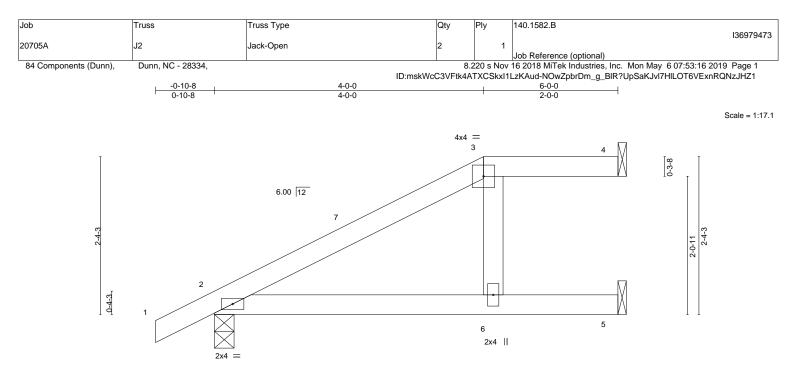
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 73 lb uplift at joint 6.

6) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.



🙏 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 design parameters and READ NOTES ON TIPS ON TIPS AND INCLODED MITCR REPRETENCE PAGE MIT-1473 TeV. 100322010 SECORE 052. 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-98 and BCSI Building Component** fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Qua Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.





TCLL 20.0 Plate Grip DOL 1.15 TC 0.25 Vert(LL) 0.10 2-6 >695 240 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 BC 0.70 Vert(CT) -0.19 2-6 >368 180 BCLL 0.0 * Rep Stress Incr YES WB 0.05 Horz(CT) 0.08 4 n/a n/a	 ŀ		4-0-0 4-0-0				6-0-0 2-0-0		
	 Plate Grip DOL	1.15	TC 0.25	Vert(LL)	0.10 2-6	6 >695	240	-	
				Horz(CT)	0.08	4 n/a	n/a	Weight: 23 lb	FT = 20%

LUMBER-

TOP CHORD2x4 SP No.2BOT CHORD2x4 SP No.2WEBS2x4 SP No.3

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins: 3-4. Rigid ceiling directly applied or 10-0-0 oc bracing.

- REACTIONS. (lb/size) 4=58/Mechanical, 2=298/0-3-8, 5=168/Mechanical Max Horz 2=92(LC 12) Max Uplift 4=-26(LC 8), 2=-47(LC 12), 5=-18(LC 12)
- FORCES. (lb) Max. Comp./Max. Ten. All forces 250 (lb) or less except when shown.

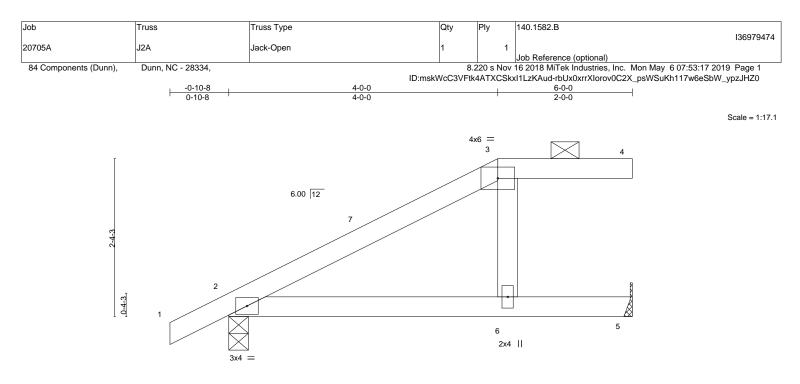
NOTES-

- 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=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 4-0-0, Exterior(2) 4-0-0 to 5-11-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 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) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 26 lb uplift at joint 4 and 18 lb uplift at joint 5.
- One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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				4-0-0 4-0-0	1				6-0-0 2-0-0		
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	0.28	Vert(LL)	0.13	2-6	>533	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC	1.00	Vert(CT)	-0.23	2-6	>302	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2015/T	PI2014	Matri	κ-Ρ						Weight: 23 lb	FT = 20%

LUMBER-

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

Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins: 3-4. BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

- REACTIONS. 2=298/0-3-8, 5=230/Mechanical (lb/size) Max Horz 2=92(LC 12) Max Uplift 2=-45(LC 12), 5=-54(LC 9)
- FORCES. (Ib) Max. Comp./Max. Ten. All forces 250 (Ib) or less except when shown. WEBS 3-6=-275/211

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=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 4-0-0, Exterior(2) 4-0-0 to 6-0-0
- zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 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) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 54 lb uplift at joint 5.
- 8) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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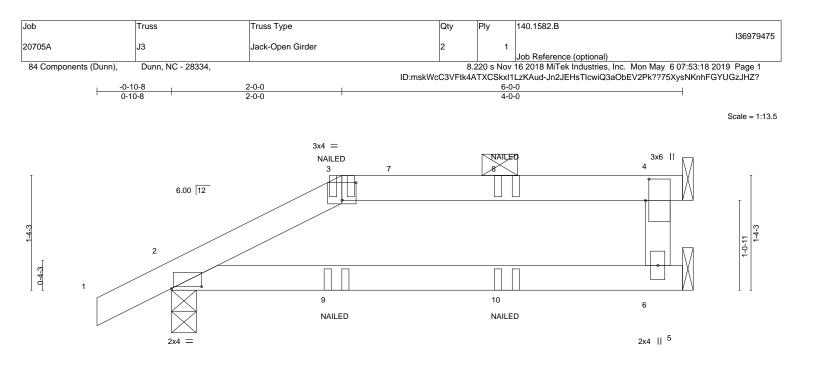


Plate Offsets (X,Y)	2:0-4-4,0-0-4], [3:0-2-0,0-2-8], [4:0-3-0	,, <u>,,,,,</u>						
OADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in	(loc)	l/defl	L/d	PLATES	GRIP
CLL 20.0	Plate Grip DOL 1.15	TC 0.53	Vert(LL) -0.04	2-6	>999	240	MT20	244/190
CDL 10.0	Lumber DOL 1.15	BC 0.38	Vert(CT) -0.10	2-6	>691	180		
CLL 0.0 *	Rep Stress Incr NO	WB 0.00	Horz(CT) 0.06	4	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P					Weight: 21 lb	FT = 20%

TOP CHORD2x4 SP No.2BOT CHORD2x4 SP No.2WEBS2x4 SP No.3

BRACING-TOP CHORD Structural wood she 2-0-0 oc purlins: 3-4 BOT CHORD Rigid ceiling directly

2-0-0 oc purlins: 3-4. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 2=289/0-3-8, 4=150/Mechanical, 6=73/Mechanical Max Horz 2=54(LC 12)

Max Uplift 2=-52(LC 12), 4=-62(LC 9) Max Grav 2=289(LC 1), 4=150(LC 1), 6=116(LC 3)

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

NOTES-

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; 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) Provide adequate drainage to prevent water ponding.

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

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 62 lb uplift at joint 4.

 One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.

9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

- 10) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- 11) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.

12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf)

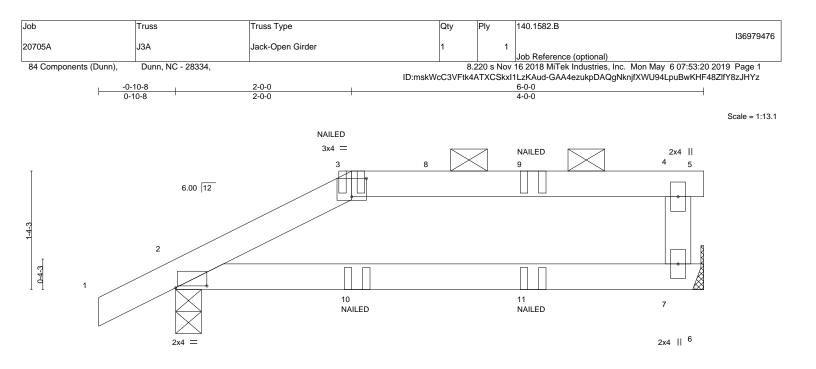
Vert: 1-3=-60, 3-4=-60, 2-5=-20





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



		-0-0			6-0-0			
Plate Offsets (X,Y) [2	2:0-4-4,0-0-4], [3:0-2-0,0-2-8]	-0-0			4-0-0			
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 0.52	Vert(LL) -0.0	· · ·	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.41	Vert(CT) -0.1	1 2-7	>624	180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.04	Horz(CT) 0.0	0	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S					Weight: 21 lb	FT = 20%

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

Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins: 3-5. BOT CHORD

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

REACTIONS. (lb/size) 2=289/0-3-8, 7=229/Mechanical Max Horz 2=54(LC 12)

Max Uplift 2=-53(LC 12), 7=-44(LC 9)

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=25ft; Cat. II; Exp B; 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) Provide adequate drainage to prevent water ponding.
- 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.
- Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 44 lb uplift at joint 7.
- 8) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

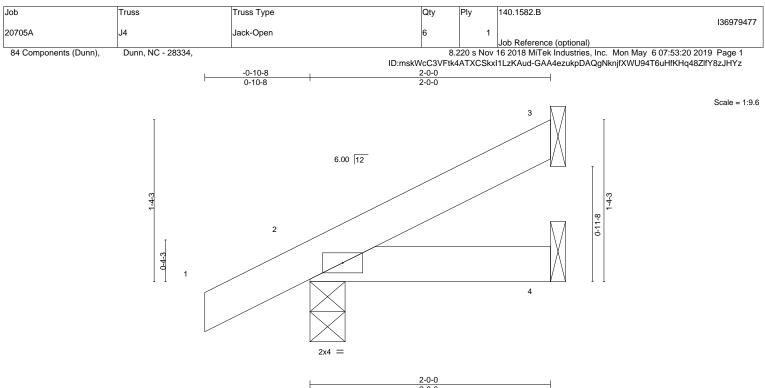
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-3=-60, 3-4=-60, 4-5=-20, 2-6=-20



🙏 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 design parameters and READ NOTES ON TIPS ON TIPS AND INCLODED MITCR REPRETENCE PAGE MIT-1473 TeV. 100322010 SECORE 052. 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-98 and BCSI Building Component** fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Qua** Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.





			2-0-0	
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 0.06	Vert(LL) -0.00 2 >999 240	MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.04	Vert(CT) -0.00 2-4 >999 180	
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: 8 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. (Ib/size) 3=46/Mechanical, 2=145/0-3-8, 4=20/Mechanical Max Horz 2=53(LC 12) Max Uplift 3=-31(LC 12), 2=-29(LC 12) Max Grav 3=46(LC 1), 2=145(LC 1), 4=39(LC 3)

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

NOTES-

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; 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
- 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) Refer to girder(s) for truss to truss connections.

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 31 lb uplift at joint 3.
- 6) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.

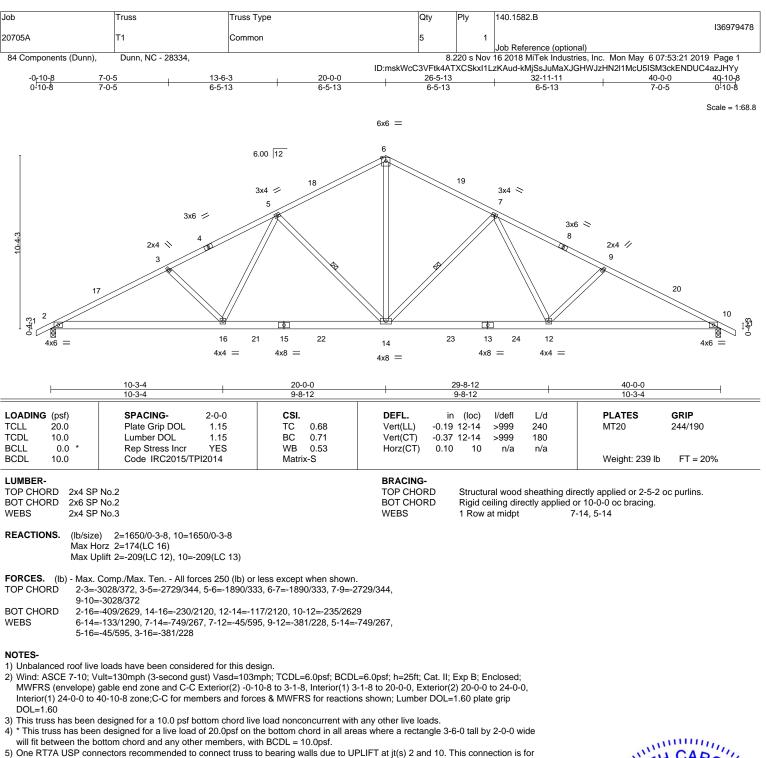


Structural wood sheathing directly applied or 2-0-0 oc purlins.

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. 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 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/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



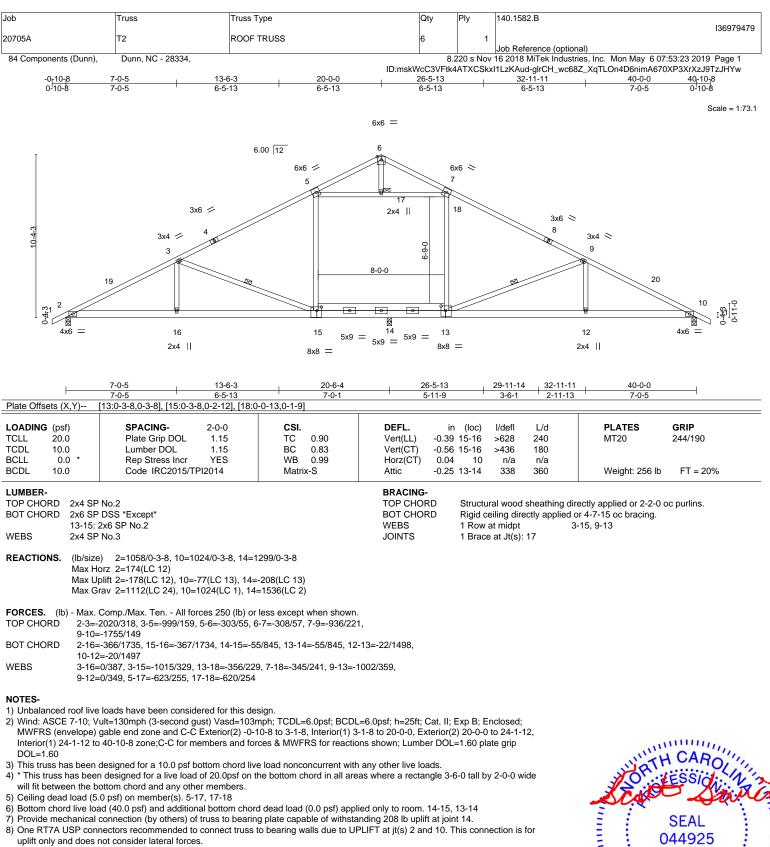


One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 10. This connection is for uplift only and does not consider lateral forces.



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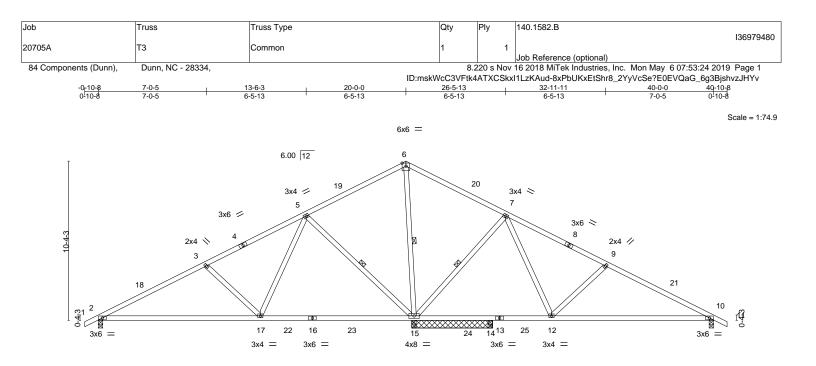


9) ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.



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818 Soundside Road Edenton, NC 27932



LOADING (psf) TCLL SPACING- 20.0 TCDL 2-0-0 Plate Grip DOL CSI. 1.15 TC DEFL. in (loc) //defl L/d MT20 244/190 TC 0.62 Vert(LL) -0.32 15-17 >758 240 MT20 244/190 BCLL 0.0 * BCDL Rep Stress Incr YES Code IRC2015/TPI2014 WB 0.49 Matrix-S Horz(CT) 0.01 10 n/a n/a Weight: 206 lb FT = 20% LUMBER- TOP CHORD 2x4 SP No.2 BRACING- TOP CHORD Structural wood sheathing directly applied or 5-0-13 oc purlins. Structural wood sheathing directly applied or 5-0-13 oc purlins.	TCLL 20.0 P TCDL 10.0 L			DEFL. i		/	
BCLL 0.0 * Rep Stress Incr YES WB 0.49 Horz(CT) 0.01 10 n/a n/a BCDL 10.0 Code IRC2015/TPI2014 WB 0.49 Horz(CT) 0.01 10 n/a n/a LUMBER- BRACING- BRACING- BRACING- BRACING- BRACING-		Lumber DOL 1.15		- ()	2 15-17 >758 24	40 MT20	
		Rep Stress Incr YES	WB 0.49	- (-)		i/a	FT = 20%
BOT CHORD 2x4 SP No.2 BOT CHORD Rigid ceiling directly applied or 1-4-12 oc bracing. WEBS 2x4 SP No.3 WEBS 1 Row at midpt 5-15, 6-15, 7-15	TOP CHORD2x4 SP No.2BOT CHORD2x4 SP No.2			TOP CHORD BOT CHORD	Rigid ceiling directly	applied or 1-4-12 oc bracing.	3 oc purlins.

 Max Uplift
 All uplift 100 lb or less at joint(s) except 2=-103(LC 12), 15=-222(LC 12), 10=-131(LC 13)

 Max Grav
 All reactions 250 lb or less at joint(s) 14 except 2=657(LC 23), 15=2176(LC 1), 15=2176(LC 1), 10=605(LC 24)

- FORCES. (lb) Max. Comp./Max. Ten. All forces 250 (lb) or less except when shown.
- TOP CHORD 2-3=-810/141, 3-5=-509/99, 5-6=-17/687, 6-7=0/742, 7-9=-388/164, 9-10=-690/206
- BOT CHORD 2-17=-205/668, 10-12=-88/562
- WEBS 3-17=-413/236, 5-17=-36/620, 5-15=-775/264, 6-15=-924/97, 7-15=-739/268, 7-12=-51/573, 9-12=-416/235

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=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 3-1-8, Interior(1) 3-1-8 to 20-0-0, Exterior(2) 20-0-0 to 24-0-0, Interior(1) 24-0-0 to 40-10-8 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 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 222 lb uplift at joint 15.

6) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 10. This connection is for uplift only and does not consider lateral forces.



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