Mark Morris, P.E. #126, 1317-M, Summerville, SC 29483

843 209-5784, Fax (866)-213-4614

The truss drawing(s) listed below have been prepared by **Atlantic Building Components** under my direct supervision based on the parameters provided by the truss designers.

AST #: 53757 JOB: 24-0270-R01 JOB NAME: LOT 90 PROVIDENCE CREEK Wind Code: ASCE7-16 Wind Speed: Vult= 120mph Exposure Category: B Mean Roof Height (feet): 35 These truss designs comply with IRC 2018 as well as IRC 2021. *30 Truss Design(s)*

Trusses:

PB01, PB02, PB03, R01, R02, R04, R05, R06, R07, R08, R09, R10, R11, R12, R13, SP01, SP02, SPJ01, SPJ02, SPJ03, VS01, VS02, VS03, VT01, VT02, VT03, VT04, VT05, VT06, VT07



Warning !--- Verify design parameters and read notes before use.



			71	~.,	i iy	LOT 90 PROVIDENCE CREEK	03 DAVINIALL DIVICE I OQUAT-VAIVINA, NO
24-0270-R01 PB01 GABLE 2 1 Job Reference (optional)	-0270-R01	PB01 GABLE	E	2	1	Job Reference (optional)	# 53757

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 Mi Tek Industries, Inc. Wed Oct 30 21:14:19 2024 Page 2 ID:kHdPkcON9g3_0lfrDBlgKRzexCS-M1gZ2phw6akPKXwdh1DjDoHF9v99pTU3k0?pA5yO6wl

LOAD CASE(S) Standard



10/30/2024





Job	Truss	Truss Type	Qty	Ply	LOT 90 PROVIDENCE CREEK 83 DAY	VINHALL DRIVE FUQUAY-VARINA, NO
24-0270-R01	PB03	GABLE	5	1	Job Reference (optional)	# 53757
			Pup: 8 430 c Ech 13	2021 Drint	t: 8 630 c. Jul 12 2024 MiTok Industrios Ir	Nod Oct 30 21:14:22 2024 Page 2

ID:kHdPkcON9g3_0lfrDBlgKRzexCS-ncLihqjoPV6_B_fBM9mQrRviu6890poVQ_ETnQvO6wF

LOAD CASE(S) Standard



10/30/2024



Continue in verify design parameters and proper incorporation of component is responsibility of building designer – not truss designer or truss engineer. Bracing shown is for lateral upport of individual web members only. Additional temporary bracing to ensure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI 1 National Design Standard for Metal Plate Connected Wood Truss Construction and BCSI 1-03 Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

Job	Truss	Truss Type	Qty	Ply	LOT 90 PROVIDENCE CREEK 83 D	AVINHALL DRIVE FUQUAY-VARINA, NC
24-0270-R01	R01	Piggyback Base Supported Gable	1	1	Job Reference (optional)	# 53757
			Run: 8.430 s Feb 12	2021 Print	t: 8.630 s Jul 12 2024 MiTek Industries.	Inc. Wed Oct 30 21:14:28 2024 Page 2

14) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.

15) Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

 16) Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.
 17) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS

17) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard

Scale = 1:102.6

L	10-1-12	21-6-0	27-0-0	32-0-0 36-6-4	48-10-4	59-0-0					
	10-1-12	11-4-4	5-6-0	5-0-0 4-6-4	12-4-0	10-1-12					
Plate Offsets	(X,Y) [18:0-	3-8,0-5-0]									
LOADING (ps TCLL (roof)	sf) 20.0	SPACING- 2-0-0 Plate Grip DOI 1.15	CSI .	DEFL.	in (loc) l/defl L/d -0.28.25-27 >999 240	PLATES GRIP					
Snow (Pf) TCDL	20.0 10.0	Lumber DOL 1.15 Rep Stress Incr. VES	BC 0.88	Vert(CT)	-0.44 25-27 >998 180 0.05 18 p/a p/a	MT20HS 187/143					
BCLL BCDL	0.0 * 10.0	Code IRC2021/TPI2014	Matrix-AS		0.05 10 11/4 11/4	Weight: 469 lb FT = 20%					
LUMBER-				BRACING-							
TOP CHORD BOT CHORD	2x6 SP No.2 2x6 SP No.2	*Except*		TOP CHORD BOT CHORD	Structural wood sheathing dire	ectly applied. Except:					
	B4: 2x4 SP I	lo.2			6-0-0 oc bracing: 20-22	·					
WEBS	JS 2x4 SP No.3 *Except* WEBS 1 Row at midpt 6-25, 7-23, 10-18, 9-18 W5,W7: 2x4 SP SS 2 Rows at 1/3 pts 8-20										
SLIDER	SLIDER Left 2x4 SP No.3 1-11-0, Right 2x4 SP No.3 1-11-0 MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide										
REACTIONS.	REACTIONS. (lb/size) 2=1339/0-3-8 (min. 0-1-13), 18=3037/0-3-8 (min. 0-2-14), 14=628/0-5-8 (min. 0-1-8) Max Horz 2=167(LC 14) Max Uniffy= 205(LC 14) 18= 7(LC 14) 14= 207(LC 15)										
	Max Uplift2= Max Grav 2=	-205(LC 14), 18=-7(LC 14), 14 1551(LC 43), 18=4183(LC 43),	207(LC 15) 14=773(LC 41)								
FORCES. (Ib	o) - Max. Com	o./Max. Ten All forces 250 (lb) or less except when sh	iown.							
TOP CHORD	2-3=-835/0 5-6=-2308/	, 3-36=-2505/273, 4-36=-2339/2 423, 6-38=-1268/291, 7-38=-11	293, 4-37=-2447/404, 5-3 42/312, 7-39=-754/267,	37=-2432/406, 39-40=-754/267,							
	40-41=-754	9/425, 11-44=-835/408, 12-44=-	101, 9-42=0/1101, 9-43= 846/406, 12-45=-651/29	=0/1245, 10-43=0/1070 92, 13-45=-861/271,	J,						
BOT CHORD	13-14=-31 2-46=-302/	//0 2136, 27-46=-302/2136, 27-47= 14674, 24, 25-, 62/4059, 24, 40-	214/1674, 26-47=-214/	/1674, 26-48=-214/1674	4,						
	50-51=-162	2/402, 51-52=-162/402, 19-52=- 2/402, 19-52=-162/402, 19-52=-	03/1036, 23-4903/10 162/402, 19-53=-162/40 265/262, 17 56- 265/26)2, 53-54=-162/402,)2, 53-54=-162/402,							
WEBS	16-57=-36	2/402, 18-33102/402, 18-30 5/263, 16-58=-138/678, 14-58=- 8/259, 7-25=-109/1129, 7-23=-1	138/678 169/162 22-23=-56/161	19 8-22=-30/1740							
WEBG	8-20=-2306	%233,7-23=-103/1123,7-23=-1 5/217,18-20=-2402/195,10-18= 968_10-16=-176/1177_4-27=-4		/0, 9-18=-864/120,		Multiliante					
NOTES- (1)	8-21)					INTERTH CAROLINI					
1) Unbalance 2) Wind: ASC	d roof live load	ds have been considered for thi 20mph (3-second gust) Vasd=	s design. 95mph: TCDL=5.0psf: B	3CDL=5.0psf: h=35ft: C	at. II: Exp B: Enclosed: Gable	A CHOPE ON A SHITT					
Roof; Hip T 16-8-6 to 2	Truss; MWFR8 6-3-10, Interio	6 (envelope) gable end zone an r(1) 26-3-10 to 32-8-6, Exterior(d C-C Exterior(2E) -0-10 2R) 32-8-6 to 42-3-10, In	0-8 to 3-11-2, Interior(1) nterior(1) 42-3-10 to 55) 3-11-2 to 16-8-6, Exterior(2R) -0-14, Exterior(2E) 55-0-14 to=	SEAL					
59-10-8 zoi grip DOL=1	ne; end vertica 1.60	al left and right exposed;C-C for	members and forces &	MWFRS for reactions	shown; Lumber DOL=1.60 plate						
3) TCLL: ASC Cat B; Part	CE 7-16; Pr=20 tially Exp.; Ce).0 psf (roof LL: Lum DOL=1.15 =1.0; Cs=1.00; Ct=1.10	Plate DOL=1.15); Pf=20	0.0 psf (Lum DOL=1.15	5 Plate DOL=1.15); ls=1.0; Rouģ	A LANGINEER OR SHIT					
4) Unbalance 5) This truss I	d snow loads has been desi	have been considered for this d gned for greater of min roof live	esign. load of 12.0 psf or 2.00	times flat roof load of 2	20.0 psf on overhangs	Man K. Monant					
non-concur	rrent with othe	r live loads.				10/30/2024					
0) Provide ad	equate graina	ge to prevent water ponding.	se This design is based only	unon parameters shown a	and is for an individual building comp	onent to be installed and loaded					
Continued on Vertically. Ap	page 2 plicability of de	sign parameters and proper incorpora	tion of component is respon	sibility of building designer	r – not truss designer or truss enginee	r. Bracing shown is for lateral support					
of individual v	web members on	ly. Additional temporary bracing to	ensure stability during const	ruction is the responsibility	of the erector. Additional permanent	t bracing of the overall structure is the					
responsibility	of the building c	esigner. For general guidance regard	ling fabrication, quality cont	rol, storage, delivery, erect	tion and bracing, consult ANSI/TPI 1	National Design Standard for Metal					
Plate Connect	ted Wood Truss	Construction and BCSI 1-03 Guide	to Good Practice for Handli	ıng, Installing & Bracing o	of Metal Plate Connected Wood Truss	es from Truss Plate Institute, 583					

D'Onofrio Drive, Madison, WI 53719.

Job	Truss	Truss Type	Qty	Ply	LOT 90 PROVIDENCE CREEK 83 DAVIN	HALL DRIVE FUQUAY-VARINA, NO
24-0270-R01	R02	Piggyback Base	9	1	Job Reference (optional)	# 53757
			Run: 8.430 s Feb 12 ID:kHdPkcON	2 2021 Print 9g3_0lfrD	t: 8.630 s Jul 12 2024 MiTek Industries, Inc. BIgKRzexCS-u6ecPHtyLUI8F_9hdOV ⁻	Wed Oct 30 21:14:35 2024 Page 2 TtAxqfMQWZU_PQVtfk9yO6w2

NOTES- (18-21)

8) All plates are 5x5 MT20 unless otherwise indicated.

- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) * 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 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 11) Bearing at joint(s) 18 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 12) Provide mechanical connection (by others) of trust to bearing plate capable of withstanding 100 lb uplift at joint(s) 18 except (jt=lb) 2=205, 14=207. 13) Load case(s) 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 14) MULTIPLE LOADCASES This design is the composite result of multiple load cases.
- 15) User moving load cases exist: Review the load cases for details
- 16) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord
- 17) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- 18) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced. 19) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.
- 20) Web bracing shown is for lateral support of individual web members only. Refer to BCSI Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.
- 21) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRĂCINĞ OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard Except:

- 109) Reversal: 1st User Defined Moving Load Dead + Snow (balanced): Lumber Increase=1.15. Plate Increase=1.15 Uniform Loads (plf)
 - Vert: 1-7=-60(F), 7-9=-60(F), 9-15=-60(F), 28-32=-20(F), 20-22=-20(F)
 - Concentrated Loads (lb)
 - Vert: 23=-150 51=-150
- 110) Reversal: 2nd User Defined Moving Load Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)
 - Vert: 1-7=-60(F), 7-9=-60(F), 9-15=-60(F), 28-32=-20(F), 20-22=-20(F)
 - Concentrated Loads (Ib) Vert: 51=-150 52=-150
- 111) Reversal: 3rd User Defined Moving Load Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)
- Vert: 1-7=-60(F), 7-9=-60(F), 9-15=-60(F), 28-32=-20(F), 20-22=-20(F)
 - Concentrated Loads (lb) Vert: 52=-150 53=-150
- 112) Reversal: 4th User Defined Moving Load Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf) Vert: 1-7=-60(F), 7-9=-60(F), 9-15=-60(F), 28-32=-20(F), 20-22=-20(F)
 - Concentrated Loads (lb)
 - Vert: 53=-150 55=-150
- 113) Reversal: 5th User Defined Moving Load Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
 - Vert: 1-7=-60(F), 7-9=-60(F), 9-15=-60(F), 28-32=-20(F), 20-22=-20(F)
 - Concentrated Loads (Ib)
 - Vert: 18=-150 54=-150
- 114) Reversal: 7th Unbal.1st User Defined Moving Load Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-7=-32(F=-20), 7-9=-101(F=-20), 9-15=-32(F=-20), 28-32=-20(F), 20-22=-20(F)

- Concentrated Loads (lb)
- Vert: 23=-150 51=-150

115) Reversal: 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-36--60(F=-20), 7-36=-101(F=-20), 7-9=-32(F=-20), 9-45=-101(F=-20), 15-45=-60(F=-20), 28-32=-20(F), 20-22=-20(F)

Vert: 23=-150 51=-150

Warning !--Verify design parameters and read notes before use. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded Continued on page 3. Vertically. Applieability of design parameters and proper incorporation of component is responsibility of building designer – not truss designer or truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to ensure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI 1 National Design Standard for Metal Plate Connected Wood Trusse Construction and BCSI 1-03 Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses from Trusse Plate Institute, 583 D'Onofrio Drive Madison WI 53719

10/30/2024

Job	Truss	Truss Type	Qty	Ply	LOT 90 PROVIDENCE CREEK 83 DAVINHALL DRIVE FUQUAY-VARIN/
4-0270-R01	R02	Piggyback Base	9	1	¹ the Deference (antional) # 53757
			Run: 8.430 s Feb	12 2021 Pri	JOD Reference (optional) int: 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Oct 30 21:14:35 2024 Page
				vəgə_onn	
-OAD CASE(S) I20) Reversal: 7th Ur	ıbal.1st User Defined Moviı	ng Load - Dead + Snow (balanced)-F	Parallel: Lumber Incre	ease=1.1	5, Plate Increase=1.15
Uniform Loads (r	olf) =-32(F=-20)_7-9=-101(F=-	20) 0-15=-32(F=-20) 28-32=-20(F)	20-22=-20(E)		
Concentrated Lc	ads (lb)	20), 9-1332(F20), 20-3220(F),	20-2220(F)		
21) Reversal: 8th Ur	150 51=-150 Ibal 1st User Defined Movii	ng Load - Dead + Snow (balanced)-F	Parallel [.] Lumber Incre	ase=1.1	5 Plate Increase=1 15
Uniform Loads (olf)				
Concentrated Lc	6=-60(F=-20), 7-36=-101(F ads (lb)	=-20), 7-9=-32(F=-20), 9-45=-101(F	=-20), 15-45=-60(F=-	20), 28-3	32=-20(F), 20-22=-20(F)
22) Reversal: 7th Ltr	150 51=-150 Ibal 1st User Defined Movie	ng Load - Dead + Snow (balanced)-	Parallel: Lumber Incre	200-11	5. Plate Increase=1 15
Uniform Loads (olf)			use-1.1	
Vert: 1-7 Concentrated Lc	=-32(F=-20), 7-9=-101(F=- ads (lb)	20), 9-15=-32(F=-20), 28-32=-20(F),	20-22=-20(F)		
Vert: 23=	150 51=-150	and and Deed (Chevy (beloweed) (
Uniform Loads (olf)	ig Load - Dead + Snow (balanced)-r	Parallel: Lumber Incre	ease=1.1	5, Plate increase=1.15
Vert: 1-3	6=-60(F=-20), 7-36=-101(F	=-20), 7-9=-32(F=-20), 9-45=-101(F	=-20), 15-45=-60(F=-	20), 28-3	32=-20(F), 20-22=-20(F)
Vert: 23=	-150 51=-150				
24) Reversal: 7th Un Uniform Loads (ibal.1st User Defined Movii olf)	ng Load - Dead + Snow (balanced)-F	Parallel: Lumber Incre	ease=1.1	5, Plate Increase=1.15
Vert: 1-7	=-32(F=-20), 7-9=-101(F=-	20), 9-15=-32(F=-20), 28-32=-20(F),	20-22=-20(F)		
Vert: 23=	=-150 51=-150				
25) Reversal: 8th Un	bal.1st User Defined Movii	ng Load - Dead + Snow (balanced)-F	Parallel: Lumber Incre	ease=1.1	5, Plate Increase=1.15
Vert: 1-3	6=-60(F=-20), 7-36=-101(F	=-20), 7-9=-32(F=-20), 9-45=-101(F	=-20), 15-45=-60(F=-	20), 28-3	82=-20(F), 20-22=-20(F)
Concentrated Lo Vert: 23=	=-150 51=-150				
26) Reversal: 7th Un	bal.1st User Defined Movi	ng Load - Dead + Snow (balanced)-F	Parallel: Lumber Incre	ease=1.1	5, Plate Increase=1.15
Vert: 1-7	=-32(F=-20), 7-9=-101(F=-	20), 9-15=-32(F=-20), 28-32=-20(F),	20-22=-20(F)		
Concentrated Lo	ads (lb) 150 51=-150				
27) Reversal: 8th Ur	bal.1st User Defined Movi	ng Load - Dead + Snow (balanced)-F	Parallel: Lumber Incre	ease=1.1	5, Plate Increase=1.15
Uniform Loads (p Vert: 1-3	olt) 6=-60(F=-20), 7-36=-101(F	=-20), 7-9=-32(F=-20), 9-45=-101(F	=-20), 15-45=-60(F=-	20), 28-3	32=-20(F), 20-22=-20(F)
Concentrated Lo	ads (lb)			,.	
28) Reversal: 7th Ur	bal.1st User Defined Movi	ng Load - Dead + Snow (balanced)-F	Parallel: Lumber Incre	ease=1.1	5, Plate Increase=1.15
Uniform Loads (p Vert: 1-7	olf) =-32(F=-20), 7-9=-101(F=-	20), 9-15=-32(F=-20), 28-32=-20(F),	20-22=-20(F)		
Concentrated Lo	ads (lb)				
29) Reversal: 8th Ur	150 51=-150 Ibal.1st User Defined Movii	ng Load - Dead + Snow (balanced)-F	Parallel: Lumber Incre	ease=1.1	5, Plate Increase=1.15
Uniform Loads (r	olf) 6- 60(E- 20) 7 36- 101(E	- 20) 7 0- 32/E- 20) 0 45- 101/E	- 20) 15 45- 60(E-	20/ 28.3	27- 20(E) 20 22- 20(E)
Concentrated Lc	ads (lb)	20), 7-932(F20), 9-45101(F	20), 15-4500(F	20), 20-3	2220(F), 20-2220(F)
30) Reversal: 7th Ur	150 51=-150 Ibal 1st User Defined Movii	ng Load - Dead + Snow (balanced)-F	Parallel [.] Lumber Incre	ase=1.1	5 Plate Increase=1 15
Uniform Loads (olf)				
Concentrated Lc	=-32(F=-20), 7-9=-101(F=- ads (lb)	20), 9-15=-32(F=-20), 28-32=-20(F),	20-22=-20(F)		
Vert: 23=	150 51=-150	a Load Dead + Snow (balanced)	Parallel: Lumber Incre	000-1 1	5. Plate Increase-1 15
Uniform Loads (r	olf)	ig Load - Dead - Show (balanced)-i		ase-1.1.	
Vert: 1-3 Concentrated Lc	6=-60(F=-20), 7-36=-101(F ads (lb)	=-20), 7-9=-32(F=-20), 9-45=-101(F	=-20), 15-45=-60(F=-	20), 28-3	32=-20(F), 20-22=-20(F)
Vert: 23=	-150 51=-150				
انا 132) Reversal: 7th Un الانادين Uniform Loads (ا	ibal.1st User Defined Movii olf)	ng Load - Dead + Snow (balanced)-i	Parallel: Lumber Incre	ease=1.1	5, Plate Increase=1.15
Vert: 1-7	=-32(F=-20), 7-9=-101(F=-	20), 9-15=-32(F=-20), 28-32=-20(F),	20-22=-20(F)		
Vert: 23=	=-150 51=-150				WHITE CAR
133) Reversal: 8th Un Uniform Loads ()	ıbal.1st User Defined Moviı olf)	ng Load - Dead + Snow (balanced)-F	Parallel: Lumber Incre	ease=1.1	5, Plate Increase=1.15
Vert: 1-3	6=-60(F=-20), 7-36=-101(F	=-20), 7-9=-32(F=-20), 9-45=-101(F	=-20), 15-45=-60(F=-	20), 28-3	32=-20(F), 20-22=-20(F)
Concentrated Lo Vert: 23=	ads (ID) 150 51=-150				SEAL
134) Reversal: 7th Un	bal.1st User Defined Movi	ng Load - Dead + Snow (balanced)-F	Parallel: Lumber Incre	ease=1.1	5, Plate Increase=1.15 28147
Vert: 1-7	=-32(F=-20), 7-9=-101(F=-	20), 9-15=-32(F=-20), 28-32=-20(F),	20-22=-20(F)		
Concentrated Lo Vert: 23:	ads (lb) 150 51=-150				NOINEET OF
135) Reversal: 8th Lir	bal.1st User Defined Movi	ng Load - Dead + Snow (balanced)-F	Parallel: Lumber Incre	ease=1.1	5, Plate Increase=1.15 K. MORINI

135) Reversal: 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-36-60(F=-20), 7-36=-101(F=-20), 7-9=-32(F=-20), 9-45=-101(F=-20), 15-45=-60(F=-20), 28-32=-20(F), 20-22=-20(F)

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10/30/2024

Job	Truss	Truss Type	Qty	Ply	LOT 90 PROVIDENCE CREEK 83	DAVINHALL DRIVE FUQUAY-VARINA, NO
24-0270-R01	R02	Piggyback Base	9	1	Job Reference (optional)	# 53757
		Pup	130 c Ech	12 2021 Drin	t 8 630 c Jul 12 2024 MiTok Industrio	s Inc. Wed Oct 30 21:14:35 2024 Page 4

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Oct 30 21:14:35 2024 Page 4 ID:kHdPkcON9q3 0lfrDBlgKRzexCS-u6ecPHtyLUI8F_9hdOVTtAxqfMQWZU_PQVtfk9yO6w2

LOAD CASE(S)	
Vert: 23=-150 51=-150 136) Reversal: 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15	
Uniform Loads (plf) Vert: 1-7=-32(F=-20), 7-9=-101(F=-20), 9-15=-32(F=-20), 28-32=-20(F), 20-22=-20(F)	
Concentrated Loads (lb) Vert: 23=-150 51=-150 127) Reversel: 8th Llevel 14th Llevel Defined Maying Load - Dood + Snow (belanced) Received: https://www.instructure.com/	
Uniform Loads (plf) Uniform Loads (plf) Vort 1 26- 60(E- 20) 7 26- 101(E- 20) 7 0- 22(E- 20) 0 45- 101(E- 20) 15 45- 60(E- 20) 28 22- 20(E) 20 22- 20(E)	
Concentrated Loads (lb) Vert: 23=150 51=-150	
138) 1st User Defined Moving Load - Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (olf)	
Vert: 1-7=-60(F), 7-9=-60(F), 9-15=-60(F), 28-32=-20(F), 20-22=-20(F) Concentrated Loads (lb)	
Vert: 23=-150 51=-150 139) 2nd User Defined Moving Load - Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15	
Uniform Loads (plf) Vert: 1-7=-60(F), 7-9=-60(F), 9-15=-60(F), 28-32=-20(F), 20-22=-20(F)	
Concentrated Loads (lb) Vert: 51=-150 52=-150	
140) 3rd User Detined Moving Load - Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)	
Vert: $1-7=-60(F)$, $7-9=-60(F)$, $28-32=-20(F)$, $20-22=-20(F)$ Concentrated Loads (lb)	
141) 4th User Defined Moving Load - Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15	
Vert: 1-7=-60(F), 7-9=-60(F), 9-15=-60(F), 28-32=-20(F), 20-22=-20(F) Concentrated Loads (Ib)	
Vert: 53=-150 55=-150 142) 5th User Defined Moving Load - Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15	
Uniform Loads (plf) Vert: 1-7=-60(F), 7-9=-60(F), 9-15=-60(F), 28-32=-20(F), 20-22=-20(F)	
Concentrated Loads (lb) Vert: 18=-150 54=-150	
143) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)	
Vert: $1-7=-32(F=-20)$, $7-9=-101(F=-20)$, $9-15=-32(F=-20)$, $28-32=-20(F)$, $20-22=-20(F)$ Concentrated Loads (lb)	
144) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15	
Vert: 1-36=-60(F=-20), 7-36=-101(F=-20), 7-9=-32(F=-20), 9-45=-101(F=-20), 15-45=-60(F=-20), 28-32=-20(F), 20-22=-20(F) Concentrated Loads (lb)	
Vert: 23=-150 51=-150 145) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15	
Uniform Loads (pii) Vert: 1-7=-32(F=-20), 7-9=-101(F=-20), 9-15=-32(F=-20), 28-32=-20(F), 20-22=-20(F) Concentrated Loads (lb)	
Vert: 23=-150 51=-150 146) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15	
Uniform Loads (plf) Vert: 1-36=-60(F=-20), 7-36=-101(F=-20), 7-9=-32(F=-20), 9-45=-101(F=-20), 15-45=-60(F=-20), 28-32=-20(F), 20-22=-20(F)	
Concentrated Loads (lb) Vert: 23=-150 51=-150	
147) /th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)	
Vert. $1-732(\Gamma20)$, $7-3101(\Gamma20)$, $3-1332(\Gamma20)$, $20-3220(\Gamma)$, $20-2220(\Gamma)$ Concentrated Loads (lb) Vert. $23-150$ for 51150	
148) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15	
Vert: 1,36=-60(F=-20), 7-36=-101(F=-20), 7-9=-32(F=-20), 9-45=-101(F=-20), 15-45=-60(F=-20), 28-32=-20(F), 20-22=-20(F) Concentrated Loads (lb)	4
149) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15	Interna
Vert: 1-7=-32(F=-20), 7-9=-101(F=-20), 9-15=-32(F=-20), 28-32=-20(F), 20-22=-20(F) SEAL Concentrated Loads (lb) 28147	MIIIMA
Vert: 23=-150 51=-150 150) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15	Inner
Uniform Loads (pif) Vert: 1-36=-60(F=-20), 7-36=-101(F=-20), 7-9=-32(F=-20), 9-45=-101(F=-20), 15-45=-60(F=-20), 28-32=-20(F), 20-22=-20(F)	ile.
Vert: 23=-150 51=-150	
10/30/2024	

Job	Truss	Truss Type	Qty	Ply	LOT 90 PROVIDENCE CRE	EK 83 DAVINHALL DRIVE FUQUAY-VARINA,
24-0270-R01	R02	Piggyback Base	9		1	# 53757
			Run: 8.430 s Feb 1 ID:kHdPkcON	12 2021 Pr 19a3 Olfr	int: 8.630 s Jul 12 2024 MiTek I DBIgKRzexCS-u6ecPHtvLU	ndustries, Inc. Wed Oct 30 21:14:35 2024 Page JI8F 9hdOVTtAxafMQWZU PQVtfk9vO6v
					5	
151) 7th Unbal.1st Use	er Defined Moving Load - D	ead + Snow (balanced)-Parall	el: Lumber Increase=1.15,	Plate In	crease=1.15	
Uniform Loads (pl Vert: 1-7=	lt) :-32(F=-20), 7-9=-101(F=-2	0), 9-15=-32(F=-20), 28-32=-2	0(F), 20-22=-20(F)			
Concentrated Loa Vert: 23=-	ads (lb) -150 51=-150					
152) 8th Unbal.1st Use	er Defined Moving Load - D	ead + Snow (balanced)-Parall	el: Lumber Increase=1.15,	Plate In	crease=1.15	
Vert: 1-36	i=-60(F=-20), 7-36=-101(F=	20), 7-9=-32(F=-20), 9-45=-1	01(F=-20), 15-45=-60(F=-2	20), 28-3	82=-20(F), 20-22=-20(F)	
Concentrated Loa Vert: 23	ads (lb) -150 51=-150					
153) 7th Unbal.1st Use	er Defined Moving Load - D	ead + Snow (balanced)-Parall	el: Lumber Increase=1.15,	Plate In	crease=1.15	
Vert: 1-7=	-32(F=-20), 7-9=-101(F=-2	0), 9-15=-32(F=-20), 28-32=-2	0(F), 20-22=-20(F)			
Concentrated Loa Vert: 23=-	ads (lb) -150 51=-150					
154) 8th Unbal.1st Use	er Defined Moving Load - D	ead + Snow (balanced)-Parall	el: Lumber Increase=1.15,	Plate In	crease=1.15	
Vert: 1-36	;=-60(F=-20), 7-36=-101(F=	20), 7-9=-32(F=-20), 9-45=-1	01(F=-20), 15-45=-60(F=-2	20), 28-3	32=-20(F), 20-22=-20(F)	
Vert: 23=-	ids (ID) -150 51=-150					
155) 7th Unbal.1st Use Uniform Loads (pl	er Defined Moving Load - D lf)	ead + Snow (balanced)-Parall	el: Lumber Increase=1.15,	Plate In	crease=1.15	
Vert: 1-7=	-32(F=-20), 7-9=-101(F=-2	0), 9-15=-32(F=-20), 28-32=-2	0(F), 20-22=-20(F)			
Vert: 23=-	-150 51=-150					
156) 8th Unbal.1st Use Uniform Loads (pl	er Defined Moving Load - D lf)	ead + Snow (balanced)-Parall	el: Lumber Increase=1.15,	Plate In	crease=1.15	
Vert: 1-36 Concentrated Loa	=-60(F=-20), 7-36=-101(F= ads (lb)	20), 7-9=-32(F=-20), 9-45=-1	01(F=-20), 15-45=-60(F=-2	20), 28-3	32=-20(F), 20-22=-20(F)	
Vert: 23=-	-150 51=-150	and (Craw (balanced) Denall	-l. I			
Uniform Loads (pl	f)	ead + Show (balanced)-Parali	ei: Lumber Increase= 1.15,	Plate in	crease=1.15	
Vert: 1-7= Concentrated Loa	:-32(F=-20), 7-9=-101(F=-2 ads (lb)	0), 9-15=-32(F=-20), 28-32=-2	0(F), 20-22=-20(F)			
Vert: 23	-150 51=-150	and L Chow (balanced) Derall	alı Lumbar Inaraaaa=1.1E	Diata In	orooo=1.1E	
Uniform Loads (pl	lf)		el. Lumber increase-1.15,	Fiale III	clease-1.15	
Vert: 1-36 Concentrated Loa	i=-60(F=-20), 7-36=-101(F= ads (lb)	20), 7-9=-32(F=-20), 9-45=-1	01(F=-20), 15-45=-60(F=-2	20), 28-3	32=-20(F), 20-22=-20(F)	
Vert: 23=-	-150 51=-150 ar Defined Moving Load - D	ead + Snow (balanced)-Parall	el: Lumber Increase=1 15	Plate In	crease=1 15	
Uniform Loads (pl				riate in	Glease-1.15	
Vert: 1-7= Concentrated Loa	32(F=-20), 7-9=-101(F=-2 ads (lb)	0), 9-15=-32(F=-20), 28-32=-2	(C(F), 20-22=-20(F)			
-=Vert: 23 160) 8th Unbal 1st Use	-150 51=-150 er Defined Moving Load - D	ead + Snow (balanced)-Parall	el: Lumber Increase=1.15.	Plate In	crease=1.15	
Uniform Loads (pl	lf) = 60(E= 20) 7 26= 101(E=	- 20) 7 0- 22/E- 20) 0 45- 1	01(E= 20) 15 45= 60(E= ;		22- 20(F) 20 22- 20(F)	
Concentrated Loa	ads (lb)	20), 7-932(F20), 9-451	UT(F20), 15-4560(F	20), 20-3	5220(F), 20-2220(F)	
-=Vert: 23 161) 7th Unbal.1st Use	-150 51=-150 er Defined Moving Load - D	ead + Snow (balanced)-Parall	el: Lumber Increase=1.15,	Plate In	crease=1.15	
Uniform Loads (pl	lf) 32(E=-20) 7-9=-101(E=-2	0) 9-15=-32(F=-20) 28-32=-2	0(F) 20-22=-20(F)			
Concentrated Loa	ads (lb)	$0, 0^{-10} - 02(1 - 20), 20^{-02} - 2$				
-=-vert: 23 162) 8th Unbal.1st Use	er Defined Moving Load - D	ead + Snow (balanced)-Parall	el: Lumber Increase=1.15,	Plate In	crease=1.15	
Uniform Loads (pl Vert: 1-36	lf) i=-60(F=-20). 7-36=-101(F=	20). 7-9=-32(F=-20). 9-45=-1	01(F=-20). 15-45=-60(F=-;	20). 28-3	32=-20(F). 20-22=-20(F)	
Concentrated Loa	ads (lb)			- //		
163) 7th Unbal.1st Use	er Defined Moving Load - D	ead + Snow (balanced)-Parall	el: Lumber Increase=1.15,	Plate In	crease=1.15	
Uniform Loads (pl Vert: 1-7=	lf) :-32(F=-20), 7-9=-101(F=-2	0), 9-15=-32(F=-20), 28-32=-2	0(F), 20-22=-20(F)			
Concentrated Loa	ads (lb)					MILLING AND
164) 8th Unbal.1st Use	er Defined Moving Load - D	ead + Snow (balanced)-Parall	el: Lumber Increase=1.15,	Plate In	crease=1.15	MINING TH CAROLINI
Uniform Loads (pi Vert: 1-36	i=-60(F=-20), 7-36=-101(F=	20), 7-9=-32(F=-20), 9-45=-1	01(F=-20), 15-45=-60(F=-2	20), 28-3	32=-20(F), 20-22=-20(F)	OF OF ESGIDAL A THE
Concentrated Loa Vert: 23=-	ads (lb) -150 51=-150				in the second se	SEAL
165) 7th Unbal.1st Use	er Defined Moving Load - D	ead + Snow (balanced)-Parall	el: Lumber Increase=1.15,	Plate In	crease=1.15	28147
Vert: 1-7=	-32(F=-20), 7-9=-101(F=-2	0), 9-15=-32(F=-20), 28-32=-2	0(F), 20-22=-20(F)		HILIN	No. oli
Concentrated Loa Vert: 23=-	ads (lb) -150 51=-150					VOINEER SUIT
166) 8th Unbal.1st Use	er Defined Moving Load - D	ead + Snow (balanced)-Parall	el: Lumber Increase=1.15,	Plate In	crease=1.15	Man K. Mornin
Vert: 1-36	;=-60(F=-20), 7-36=-101(F=	20), 7-9=-32(F=-20), 9-45=-1	01(F=-20), 15-45=-60(F=-2	20), 28-3	32=-20(F), 20-22=-20(F)	10/30/2024
Warning !—Verify desi	ign parameters and read note	s before use. This design is based	only upon parameters shown a	ind is for a	an individual building compor	ent to be installed and loaded

Warning :— Verify design parameters and read notes before use. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded online to no page & State of the state of

Job	Truss	Truss Type	Qty	Ply	LOT 90 PROVIDENCE CREEK 83 DAVIN	NHALL DRIVE FUQUAY-VARINA, NC
24-0270-R01	R02	Piggyback Base	9	1	Job Reference (optional)	# 53757
	·		Run: 8.430 s Feb 12 ID:kHdPkcON	2021 Print 9g3_0lfrD	t: 8.630 s Jul 12 2024 MiTek Industries, Inc. BIgKRzexCS-u6ecPHtyLUI8F_9hdOV	Wed Oct 30 21:14:35 2024 Page 6 /TtAxqfMQWZU_PQVtfk9yO6w2

LOAD CASE(S)

Concentrated Loads (lb)

Vert: 23=-150 51=-150

Scale = 1:102.5

⊢	10-1-12		21-6-0	27-0-0	32-0-	0 36-6-4	48-10-4		59-0-0	_
	10-1-12		11-4-4	5-6-0	5-0-0) 4-6-4	12-4-0		10-1-12	
Plate Offse	ts (X,Y) [17:0-	3-8,0-5-0]								
LOADING (psf)	SPACING.	2-0-0	120		DEEL	in (loc) l/defl	L/d	DI ATES	GRIP
TCLL (roof)	20.0	Plate Grin D	01 115	TC 0	71	Vert(LL)	-0 28 24-26 >999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DO	I 1.10	BC 0	88	Vert(CT)	-0.44.24-26 >998	180	MT20HS	187/143
TCDL	10.0	Ren Stress	Incr YES	WB 0	91	Horz(CT)	0.05 17 n/a	n/a	11120110	101/110
BCLL	0.0 *	Code IRC20)21/TPI2014	Matrix-A	AS	11012(01)	0.00 11 184	1.04	Weight: 467 lb	FT = 20%
BCDL	10.0									
LUMBER-						BRACING-				
TOP CHOR	2x6 SP No.2					TOP CHORD	Structural wood she	athing directl	y applied.	
BOT CHOR	2x6 SP No.2	*Except*				BOT CHORD	Rigid ceiling directly	applied. Ex	cept:	
	B4: 2x4 SP I	No.2					6-0-0 oc bracing: 19	-21		
WEBS	2x4 SP No.3	*Except*				WEBS	1 Row at midpt	6-24, 7	-22, 10-17, 9-17	
	W5,W7: 2x4	SPSS					2 Rows at 1/3 pts	8-19		
SLIDER	Left 2x4 SP	No.3 1-11-0, Right	2x4 SP No.3 1-11	0			MiTek recommend	s that Stabili	zers and required cros	ss bracing
							be installed during	truss erectio	n, in accordance with	Stabilizer
							Installation guide.			
REACTION	S. (lb/size) 2=	=1341/0-3-8 (min.	0-1-13), 17=3035/0)-3-8 (min. 0-2	2-14), 14=	577/0-5-8 (min. 0)-1-8)			
	Max Horz 2=	=173(LC 14)								
	Max Uplift2=	204(LC 14), 17=-	9(LC 14), 14=-188	(LC 15)						
	Max Grav 2=	=1552(LC 45), 17=	4181(LC 45), 14= <i>1</i>	22(LC 43)						
FORCES										
TORCES.	(ID) - IVIAX. COITI	2.25-2507/269				120/405				
TOP CHUR	(D 2-3=-836/0	, 3-35=-2507/268,	4-35=-2342/289, 4	-30=-2450/404	4, 5-30=-24	429/405,				
	5-6=-2310/ 20.40= 650	421, 0-37=-1200/2	280, 7-37=-1141/30	8, 7-38=-050/2	201, 38-39	=-050/201, 29 10 12-0/1062				
	39-40=-050	J/201, 8-40=-030/2 7/431, 11, 43- 944/	201, 8-41=0/1094, 8 /404 42 42= 955/4	9-41=0/1094, 9 02 12 11-65	1-42=0/123	38, 10-42=0/1003	,			
	10-11=-09/	//421, 11-43=-844/ 2/0	404, 12-43=-855/4	02, 12-44=-65	9/288, 13-	44=-868/267,				
	13-1431	1/U 2120 26 15-207	2120 26 16- 210	1672 25 46-	210/1672	25 47- 210/167	n			
BUT CHUR	2433077	2136, 20-455077	/2130, 20-40219/ /1051_23_/8=_71/1	1072, 20-40 051 22-48=-7	219/10/2,	23-47-219/107. 2.40=_160/338	Ζ,			
	18_/19=_160)/338 18_50=_160/	/338 17_50=_160/3	38 17-51=-36	3/268 16	51=-363/268				
	16-52=-363	3/268 15-52=-363	268 15-53=-148/6	86 14-53=-14	8/686	01-000/200,				
WEBS	6-24=-1053	R/259 7-24=-109/1	120 7-22=-1167/1	63 21-22=-57	/1618 8-2	1=-30/1739				
WEBO	8-19=-230	5/219 17-19=-240	1/197 10-17=-1149	266 18-20=-	301/0 9-1	7=-860/123				
	6-26=-182/	967 10-15=-177/1	180 4-26=-485/25	6 12-15=-586	/255	1 000/120,				
	0 20 102		100, 120 100,20	0, 12 10 000					MULTINITITI	
NOTES-	(14-17)								IN TH CARO	11.
1) Unbaland	ced roof live load	ds have been cons	idered for this desi	gn.				1	S. CESSIA	111
2) Wind: AS	SCE 7-16; Vult=	120mph (3-second	gust) Vasd=95mp	h; TCDL=5.0p	sf; BCDL=	5.0psf; h=35ft; C	at. II; Exp B; Enclosed	l; Gable 🌋	ROTAR	A IT
Roof; Hip	Truss; MWFR	S (envelope) gable	end zone and C-C	Exterior(2E) -	-0-10-8 to 3	3-11-2, Interior(1)	3-11-2 to 16-8-6, Ext	erior(2R)	1º 1	
16-8-6 to	26-3-10, Interio	r(1) 26-3-10 to 32-	8-6, Exterior(2R) 3	2-8-6 to 42-3-1	10, Interior	(1) 42-3-10 to 54	-2-6, Exterior(2E) 54-2	2-6 to 59-0-0	SEAL	i II
zone; end	d vertical left an	d right exposed;C-	C for members and	forces & MW	FRS for re	actions shown; L	umber DOL=1.60 plat	te grip 🚊	28147	
DOL=1.6	0							UH)	8 20147	I E
3) TCLL: AS	SCE 7-16; Pr=20	0.0 psf (roof LL: Lu	m DOL=1.15 Plate	DOL=1.15); P	Pf=20.0 pst	f (Lum DOL=1.15	Plate DOL=1.15); ls=	1.0; Rough	A second	
Cat B; Pa	artially Exp.; Ce	=1.0; Cs=1.00; Ct=	:1.10					in,	A NOINEER C	11
4) Unbaland	ced snow loads	have been conside	ered for this design					1	APL' " APL	ALL STREET
5) This trus	s has been desi	gned for greater of	f min roof live load	of 12.0 psf or 2	2.00 times	flat roof load of 2	20.0 psf on overhangs		MUM K. MUMM	
non-conc	current with othe	r live loads.							a substitution of the second s	
6) Provide a	adequate draina	ge to prevent wate	r ponding.						10/30/202	4
() All plates	are NI 20 plate	s unless otherwise	e indicated.	- 41 1- 1 1	1 1		and the formula distribution of the		10/30/202	1
Continued o Vertically.	averopy clive leader n page 2 Applicability of de	arameters and p	notes the fore use. This proper incorporation of	s design is based component is re	i only upon j sponsibility	of building designer	ind is for an individual but r – not truss designer or tr	uss engineer. 1	ent to be installed and load Bracing shown is for later	al support
of individua	al web members on	ly. Additional tempo	rary bracing to ensure	stability during c	construction	is the responsibility	of the erector. Additiona	l permanent br	acing of the overall struct	ure is the
		- 					· · · · · · · · · · · · · · · · · · ·	NCL/TDL 1 M		14 . 1

responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI 1 National Design Standard for Metal Plate Connected Wood Truss Construction and BCSI 1-03 Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

Job	Truss	Truss Type	Qty	Ply	LOT 90 PROVIDENCE CREEK 83 DAVINHALL DI	RIVE FUQUAY-VARINA, NC
24-0270-R01	R04	PIGGYBACK BASE	1	1	Job Reference (optional)	# 53757
		Ru	n: 8.430 s Feb 12 ID:kHdPkcON	2 2021 Print 9g3_0IfrD	: 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Oc BIgKRzexCS-JhJI1JwreP7j6StGIW3AVpZK_z	t 30 21:14:38 2024 Page 2 ZSDmrks6T6KLUyO6w?

NOTES- (14-17)

- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10)* 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 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

- 11) Bearing at joint(s) 17 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface. 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17 except (jt=lb) 2=204, 14=188. 13) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord
- 14) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced. 15) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.
- 16) Web bracing shown is for lateral support of individual web members only. Refer to BCSI Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing. 17) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS
- OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard

Scale = 1:99.9

1	10-1-12	21 <u> </u> 21	-6-0	27-0-0	36-6-4	48-10-4	ł	58-6-8	1
	10-1-12	2 ' 11	-4-4	5-6-0	9-6-4	12-4-0		9-8-4	
Plate Offset	s (X,Y) [17:0-	-5-0,0-4-8]							
LOADING (; TCLL (roof) Snow (Pf) TCDL BCLL BCDL	osf) 20.0 20.0 10.0 0.0 * 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2021/TF	2-0-0 1.15 1.15 YES Pl2014	CSI. TC 0.70 BC 0.81 WB 0.95 Matrix-AS	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) l/defl 0.12 15-29 >993 -0.43 20-22 >999 0.05 17 n/a	L/d 240 180 n/a	PLATES MT20 MT20HS Weight: 452 lb	GRIP 244/190 187/143 FT = 20%
LUMBER- TOP CHOR BOT CHOR WEBS SLIDER	D 2x6 SP No.2 D 2x6 SP No.2 2x4 SP No.3 W5,W7: 2x4 Left 2x4 SP	2 3 *Except* 5 P No.1 No.3 1-11-0, Right 2x6 S	P No.2 1-11-	0	BRACING- TOP CHORD BOT CHORD WEBS	Structural wood she Rigid ceiling directly 1 Row at midpt 2 Rows at 1/3 pts MiTek recommend be installed during Installation quide.	athing direct applied. 6-20, 8-17 Is that Stabi truss erect	ctly applied. 7-18, 10-17, 9-17 ilizers and required crossion, in accordance with	ss bracing Stabilizer

REACTIONS. All bearings 0-3-8 except (jt=length) 14=Mechanical.

(lb) - Max Horz 2=178(LC 14)

Max Uplift All uplift 100 lb or less at joint(s) 15 except 2=-207(LC 14), 17=-180(LC 11), 14=-180(LC 10) Max Grav All reactions 250 lb or less at joint(s) except 2=1591(LC 45), 17=3332(LC 45), 14=538(LC 43), 15=621(LC 37)

Job	Truss	Truss Type	Qty	Ply	LOT 90 PROVIDENCE CREEK 83 DAVINHA	LL DRIVE FUQUAY-VARINA, NC
24-0270-R01	R05	PIGGYBACK BASE	5	1	Job Reference (optional)	# 53757
		Ru	n: 8.430 s Feb 12 ID:kHdPkcON	2 2021 Print 9g3_0lfrDI	t: 8.630 s Jul 12 2024 MiTek Industries, Inc. We BIgKRzexCS-F4RVS_x5A1NQMI1fQx5ea	ed Oct 30 21:14:40 2024 Page 2 EfhhN8pElb9ZnbQPNyO6vz

NOTES- (15-18)

- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10)* 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 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 11) Refer to girder(s) for truss to truss connections.
- 12) Bearing at joint(s) 17 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 15 except (jt=lb) 2=207, 17=180, 14=180.
 14) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 15) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced. 16) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.
- 17) Web bracing shown is for lateral support of individual web members only. Refer to BCSI Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing. 18) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS
- OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard

responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI 1 National Design Standard for Metal Plate Connected Wood Truss Construction and BCSI 1-03 Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

Job	Truss	Truss Type	Qty	Ply	LOT 90 PROVIDENCE CREEK 83 DAVINH	ALL DRIVE FUQUAY-VARINA, NC
24-0270-R01	R06	PIGGYBACK BASE	5	1	Job Reference (optional)	# 53757
			Run: 8.430 s Feb 12	2021 Print	t: 8.630 s Jul 12 2024 MiTek Industries, Inc. W	/ed Oct 30 21:14:42 2024 Page 2

11) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced. (12) Bearing symbols are not considered in the structural design of the truss to support the

loads indicated. 13) Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing

 14) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard

Scale = 1:99.9

L	10-1-12		21-6-0	27-0	0-0	36-6-4		48-10-4		58-6-8	
	10-1-12		11-4-4	5-6	-0 '	9-6-4		12-4-0		9-8-4	
Plate Offsets ()	X,Y) [17:0-	5-0,0-4-8]									
LOADING (psf))										
TCLL (roof)	[′] 20.0	SPAC	ING- 2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
Snow (Pf)	20.0	Plate	Grip DOL 1.15	тс	0.70	Vert(LL)	-0.28 15-17	>941	240	MT20	244/190
	10.0	Lumb	er DOL 1.15	BC	0.78	Vert(CT)	-0.42 20-22	>999	180		
BCU	0.0 *	Rep S	Stress Incr YES	WB	0.97	Horz(CT)	0.04 17	n/a	n/a		
BCDI	10.0	Code	IRC2021/TPI2014	Matr	ix-AS					Weight: 452 lb	FT = 20%
DODL	10.0										
LUMBER-						BRACING-					
TOP CHORD 2	2x6 SP No.2					TOP CHORD	Structural w	ood she	athing direct	tly applied.	
BOT CHORD 2	2x6 SP No.2					BOT CHORD	Rigid ceiling	g directly	applied.		
WEBS 2	2x4 SP No.3	*Except*				WEBS	1 Row at mi	dpt	6-20, 7	7-18, 10-17, 9-17	
l l l l l l l l l l l l l l l l l l l	W5,W7: 2x4	SP No.1					2 Rows at 1	/3 pts	8-17		
SLIDER I	Left 2x4 SP I	No.3 1-11-0,	, Right 2x6 SP No.2 1-11-	0			MiTek reco	ommend	s that Stabil	lizers and required cro	ss bracing
							be installe	d durina	truss erection	on in accordance with	Stabilizer
							Installation	n auide		,	
REACTIONS.	(lb/size) 2=	1336/0-3-8	(min 0-1-13) 17=2816/0	-3-8 (min	0-2-9) 14=	=584/Mechanical	motanation	r guiuo.			
	Max Horz 2=	=178(I C 14)	(00 (0 2 0),						
	Max Uplift2=	=-217(I C 14)) 17=-83(I C 14) 14=-18	7(I C 15)							
	Max Grav 2=	=1520(I C 45	(17) (17)	19(I C 43)							
	inax orar 2	.020(20 .0	,,								
FORCES. (lb)	- Max. Com	o./Max. Ten.	- All forces 250 (lb) or les	s except w	hen showr	n.					
TOP CHORD	2-3=-818/0	3-31=-244	1/298 4-31=-2275/318 4	32=-2386/	430 5-32=	-2363/431					
	5-6=-2246/	447 6-33=-	1201/317 7-33=-1077/33	8 7-34=-59	$\frac{1}{300}$ 34-	35=-591/300					
	35-36=-591	1/300 8-36=	-591/300 8-37=0/1042 9	-37=0/104	2 9-38=0/1	181 10-38=0/1006	3				
	10-11=-672	2/406 11-39	=-819/389 12-39=-830/3	37 12-40=	-656/281 1	13-40=-856/260	,				
BOT CHORD	2-41=-335/	2080 22-41	=-335/2080 22-42=-248/	1613 21-4	2=-248/161	13 21-43=-248/161	3				
BOT ONORD	20-43=-248	2000, 22 41	0=-96/982 19-44=-96/98	2 18-44=-0	6/982 18-	45=-252/313	0,				
	45-46=-250	2/313 17_/A	=-252/313 17-47=-30/30	2, 10-443 87 16-47=.	301/287 1						
	15-48=-301	1/287 15-40	=-145/671 14-49=-145/6	71	-501/207, 1	10-40301/201,					
WEBS	6-20=-1051	1/258 7-20=	-100/1177 7-18=-1253/1	, , 39 8-18F	6/1540 8-	17=-2099/254					
WLDO	10_17=_11/	1/200, 1-20-	=-828/118 6-22=-180/07	10_15=_1	52/1137 1	12_15=_537/230					
	4-22=-486/	254	- 626/110, 0 22-100/31	5, 10-101	02/1107,	12-10001/200,					
	4-22400/	204									
NOTES. (14.	-17)										
1) Unbalanced	roof live load	de have hee	n considered for this desi	an							
2) Wind: ASCE	$= 7_16 \cdot V_{\rm ult} = $	120mnh (3-e	econd quet) Vasd=95mpl	911. 3. TCDI =5	Onef BCD	1 =5 Opef: h=35ft: (at II: Evo B: F	Inclosed	I. Gable	WITH CARO	11,
2) Wind, ASCL	_ /-10, vuit-	S (envelope)	able and zone and C-C	Evterior(2)	=)_0_10_8 f	L-3.0051, 11-3311, C) 3-11-2 to 16.	_11010300	erior(2R)	N'0"	9,14
16.8.6 to 26	3 10 Interio	(envelope)	$\frac{1}{2}$ yable end 201e and 0-0	286 to 12	_) -0-10-01 3 10 Inter	io (1) 42 3 10 to 53	3 - 11 - 210 - 10	r(2E) 53	8 14 to	OFESSIDA	9 'le
58 6 8 zone:	- ord vertical	left exposed	d:C C for members and for	2-0-0 10 42-	/EPS for re	101(1) + 2 - 3 - 10 to 30	mber $DOI = 1.6$	1(2L) 00	arin	1000 1 2	1
DOI -1 60		leit exposed				cactions shown, Lu		o plate	grip 🛓	SEAL	
	= 7-16. Pr=20	0 nsf (roof	II · I um DOI =1 15 Plate). Pf=20.0	pef(lum DOI = 1.1)	5 Plate DOI =1	15)· le=	1 0. Rough	STAL .	1 1
Cot B: Dortio	_ /-10, F1-20	-1 0· Ce=1 0	$10 \cdot C_{t-1} = 10$	DOL-1.13), FI-20.0			. 15), 15-	T.U, Rough	28147	1 2
(A) Unbalanced	any Exp., Ce-	- 1.0, CS- 1.0	onsidered for this design						III	1	1 5
5) This truce he	show loaus	anod for aro	ofisidered for this design.	of 12.0 pof	or 2 00 tim	on flat roof load of t	20.0 pef op ov	orbonao	11	3. SA. A /	1 3
	as been uesi	glieu loi gle	ater of min roof live load (J 12.0 psi	01 2.00 1111		20.0 psi 011 00	emanys	1	QINEE	5.5
6) Provide ade	quate draina	a to preven	at water ponding						1	MAR & MARH	ante
	QUALE UI AII A	ye to preven	wise indicated							MALLA. MOUNT	
8) This truce be	e uku ivi i 20 i	aned for a 1	0 0 pef bottom abord live	load nonce	nourront	ith any other live la	ade			2.4 221 - 122	
0 + This trues h	as Deen dee	signed for a	live load of 20 Oper on the	bottom of		un any outer live lo	aus. nale 3 6 0 toll	by 1 0 0) wide will fit	10/30/202	24
Union the second the	inas Deen de	signed for a	INCIDENT OF SURVEY OF THE STREET OF STREET	totion Cr	and or training	neas where a fecta	ingle 5-0-0 tall	UY I-U-U	ilding comment	ant to he installed and 1	dad
Continued on ba	ade 2	au anneiteirsyato)	u new alon en ontexent/81 OM/eUN SIS.CILLAS	eearguntagia	ised only upo	on parameters shown,	and is for an ind	ividual bu	using compon	iem to be installed and loa	lued
vertically. App	oneability of de	sign parameter	s and proper incorporation of	component i	s responsibil	ity of building designe	er – not truss des	igner or tr	uss engineer.	Bracing shown is for late	rai support
of individual we	eb members on	ly. Additional	temporary bracing to ensure	stability duri	ng constructi	ion is the responsibility	y of the erector.	Additiona	al permanent b	pracing of the overall struc	ture is the
responsibility of	f the building d	lesigner. For g	general guidance regarding fat	rication, qua	lity control,	storage, delivery, erec	tion and bracing	, consult A	ANSI/TPI 1 No	ational Design Standard	for Metal
Plate Connected	d Wood Truss	Construction	and BCSI 1-03 Guide to Goo	d Practice fo	r Handling.	Installing & Bracing of	of Metal Plate C	onnected	Wood Trusses	from Truss Plate Institut	e, 583
D'Onofrio Driv	e. Madison W	1 53719		J .	-0,	5					
D Ononio Diite	-,, "	/ / .									

Job	Truss	Truss Type	Qty	Ply	LOT 90 PROVIDENCE CREEK 83 DAVI	NHALL DRIVE FUQUAY-VARINA, NC
24-0270-R01	R07	PIGGYBACK BASE	4	1	Job Reference (optional)	# 53757
		Ru	In: 8.430 s Feb 1 ID:kHdPkcON9	2 2021 Print g3_0lfrDB	t: 8.630 s Jul 12 2024 MiTek Industries, Inc IgKRzexCS-b1EOVi?E_Z0jSXwcDUł	. Wed Oct 30 21:14:45 2024 Page 2 pHHMYNOsMv?Yuj3IB4ayO6vu

NOTES- (14-17)

- 10) Refer to girder(s) for truss to truss connections.
- 11) Bearing at joint(s) 17 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17 except (it=lb) 2=217, 14=187.
- 13) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 14) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
- 15) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.
- 16) Web bracing shown is for lateral support of individual web members only. Refer to BCSI Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.
- 17) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard

4x6 =

4x6 ||

 ~ ~

4x6 =

42

4x6 =

4x8 ||

		58-	6-8				I
Plate Offects (X V) [11.0-1	1-0 0-3-81 [22:0-4-0 0-3-8]	58-	6-8				1
Inite Offices (X, r)= [14.0-4] LOADING (psf) TCLL (roof) 20.0 Snow (Pf) 20.0 TCDL 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 IRC2021/TPI2014	CSI. TC 0.06 BC 0.04 WB 0.26 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.00 1 0.00 1 0.01 34	l/defl L/d n/r 180 n/r 80 n/a n/a	PLATES MT20 Weight: 598 I	GRIP 244/190 b FT = 20%
LUMBER- TOP CHORD 2x6 SP No.2 BOT CHORD 2x6 SP No.2 OTHERS 2x4 SP No.3 SLIDER Left 2x4 SP N	lo.3 1-11-0, Right 2x6 SP No.2 1-11∙	0	BRACING- TOP CHORD BOT CHORD WEBS	Structural wo Rigid ceiling 1 Row at mic	ood sheathing d directly applied dpt 18 12 24	irectly applied or 6-0-0 or or 10-0-0 oc bracing. i-50, 17-51, 16-52, 15-53 i-56, 19-49, 20-47, 21-46 -43	c purlins. , 14-54, 13-55, , 22-45, 23-44,
REACTIONS. All bearings (lb) - Max Horz 2=- Max Uplift Al 43, Max Grav Al 44) 45) FORCES. (lb) - Max. Comp TOP CHORD 12-13=-123/ 17-18=-130/ 21-22=-130/	58-6-8. -169(LC 15) Il uplift 100 lb or less at joint(s) 2, 50 , 41, 40, 39, 38, 37, 36 except 64=-1: Il reactions 250 lb or less at joint(s) 2 , 52=295(LC 44), 53=294(LC 44), 54), 60=293(LC 45), 61=283(LC 45), 64), 43=295(LC 45), 41=292(LC 45), 40 ./Max. Ten All forces 250 (lb) or le /293, 13-14=-138/328, 14-15=-130/3 /314, 18-68=-130/314, 19-68=-130/3 /314, 22-23=-138/328, 23-24=-123/2	51, 52, 53, 55, 56, 58, 526(LC 14), 35=-119(LC 52), 55=297(L =258(LC 52), 55=297(L =259(LC 54), 49=292(L =292(LC 45), 39=293(L ss except when shown. 14, 15-16=-130/314, 16- 14, 19-20=-130/314, 20- 93	59, 60, 61, 62, 63 15) 34 except 50=29; C 47), 56=295(LC C 44), 47=295(LC C 45), 38=284(LC -17=-130/314, -21=-130/314,	, 49, 47, 46, 4 2(LC 44), 51=; 2 45), 58=292(2 44), 46=294(2 45)	4, 292(LC (LC 45), 59=292 (LC 44), 44=294	2(LC I(LC	
NOTES- (14-17) 1) Unbalanced roof live load: 2) Wind: ASCE 7-16; Vult=1; Roof; Common Truss; MV Corner(3R) 16-8-6 to 26-3 53-6-0 to 58-6-8 zone; end DOL=1.60 plate grip DOL: 3) Truss designed for wind 1 Gable End Details as app 4) TCLL: ASCE 7-16; Pr=20. Cat B; Partially Exp.; Ce= 5) Unbalanced snow loads h 6) This truss has been desig non-concurrent with other 7) Provide adequate drainag 8) All plates are 2x4 MT20 u 9) Gable requires continuous 10) Gable studs spaced at 2 11) This truss has been desi 12) * This truss has been desi 12) * This truss has been desi 13) Provide mechanical com	s have been considered for this desi 20mph (3-second gust) Vasd=95mp VFRS (envelope) gable end zone an 3-10, Exterior(2N) 26-3-10 to 32-8-6, d vertical left and right exposed;C-C =1.60 loads in the plane of the truss only. I licable, or consult qualified building of .0 psf (roof LL: Lum DOL=1.15 Plate 1.0; Cs=1.00; Ct=1.10 have been considered for this design ned for greater of min roof live load live loads. Je to prevent water ponding. Inless otherwise indicated. s bottom chord bearing. -0-0 oc. igned for a 10.0 psf bottom chord live isigned for a 10.0 psf bottom chord live hord and any other members, with B nection (by others) of truss to bearing	gn. h; TCDL=5.0psf; BCDL= d C-C Corner(3E) -0-10- Corner(3R) 32-8-6 to 42 for members and forces For studs exposed to wind designer as per ANSI/TF DOL=1.15); Pf=20.0 ps for 12.0 psf or 2.00 times a load nonconcurrent with the bottom chord in all ar CDL = 10.0psf. g plate capable of withst	=5.0psf; h=35ft; C: -8 to 3-11-2, Exter 2-3-10, Exterior(2N & MWFRS for re nd (normal to the PI 1. f (Lum DOL=1.15 if flat roof load of 2 th any other live lo reas where a recta anding 100 lb uol	at. II; Exp B; E rior(2N) 3-11-2 N) 42-3-10 to 5 actions showr face), see Sta Plate DOL=1. 20.0 psf on ove bads. angle 3-6-0 tal ift at joint(s) 2.	Inclosed; Gable 2 to 16-8-6, i3-6-0, Corner(3 x; Lumber Indard Industry .15); Is=1.0; Rou erhangs	SEAL 28147 55. J0/30/20	Super-

By parameters and read notes before its of this designed search upon parameters shown, and is for an individual building component to be installed and loaded Continued on page parameters and proper incorporation of component is responsibility of building designer – not truss designer or truss engineer. Bracing shown is for lateral support vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer – not truss designer or truss engineer. of individual web members only. Additional temporary bracing to ensure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI 1 National Design Standard for Metal Plate Connected Wood Trusse Construction and BCSI 1-03 Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses from Trusse Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

Job	Truss	Truss Type	Qty	Ply	LOT 90 PROVIDENCE CREEK 83 DAVIN	HALL DRIVE FUQUAY-VARINA, NO
24-0270-R01	R08	Piggyback Base Supported Gable	1	1	Job Reference (optional)	# 53757
		R	un: 8 430 s Feb 12	2021 Print	t 8 630 s Jul 12 2024 MiTek Industries Inc	Wed Oct 30 21:14:51 2024 Page 2

ID:kHdPkcON9g3_0lfrDBlgKRzexCS-QBbfml4?aPmtASNmZloDWYckqp5MJt6m5_IWIEyO6vo

14) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced. 15) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

16) Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate

Connected Wood Trustees for additional bracing guidelines, including diagonal bracing. 17) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard

Plate Connected Wood Truss Construction and BCSI 1-03 Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

D'Onofrio	Drive	Madison	WI	53719
D Ononio	Drive,	wiauison,	** 1	55/19.

10/30/2024

Job	Truss	Truss Type	Qty	Ply	LOT 90 PROVIDENCE CREEK 83 DAVINH	IALL DRIVE FUQUAY-VARINA, NC
24-0270-R01	R11	Common Supported Gable	1	1	Job Reference (optional)	# 53757
		F	Run: 8.430 s Feb 12	2021 Print	t: 8.630 s Jul 12 2024 MiTek Industries, Inc. V	Ved Oct 30 21:14:55 2024 Page 2

12) Bearing symbols are not graphical representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced. 15) Bearing symbols are not considered in the structural design of the truss to support the

loads indicated. 16) Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing

 17) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS
 OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard

Job	Truss	Truss Type		Qty	Ply LOT	90 PROVIDENCE CREEK	83 DAVINHALL DRIVE	FUQUAY-VARINA, NC
24-0270-R01	R12	GABLE		1	1		#	53757
				Run: 8.430 s Feb 1:	Job 2 2021 Print: 8.63	Reference (optional) 0 s Jul 12 2024 MiTek Indus	stries, Inc. Wed Oct 30 2	1:14:56 2024 Page 1
- <u>Q-1</u>	0 ₁ 8 7-6-6		14-9-4		3_01frDBIgKRze 0-2	29-6-8	1DFKMIOODcJMFqJZ_ <u>30-5-</u> ρ	_07VFG1GzSyO6vj
0-1	0-8 7-6-6	I	7-2-14	7-2-	-14	7-6-6	0'-10-8	
				5x8 =				Scale = 1:62.5
		7.	00 12	5				
Ī								
		0.0	т2					
		3X8 ->	40 ¹⁹ ST4		41 3x8	*		
		4x6 4		3x4		4x6 <>		
9-		3 L	3x4 ///	3x4 ♥		- -		
6-6			ST2 ST3	WS ST3	ST2	1 PR		
	H	W3	B //STT5	ST5	Ø			
4x	(8 //		WA //		WZ ST		5x8 🗞	
q 1	2				ST6	W3	89	
	W2 W2				8	B20 W2		
	⊠ 16	15 42 43	× 44	13 12	45	46 11	10	
	3x4	4x4 =	$4x4 \equiv$	$4x8 \equiv 4x4 =$		4x4 ≡	3x4	
				474 —				
	6-4-14	12-	6-4 1	7-0-4	23-1-10	29-3-8	29-6-8	
Plate Offsets (X,Y) [13:	0-4-0,0-1-4]		5		010	0111		
LOADING (psf) TCLL (roof) 20.0	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl L/d	PLATES	GRIP
Snow (Pf) 20.0	Plate Grip DOL Lumber DOL	1.15 1.15	TC 0.91 BC 0.36	Vert(LL) Vert(CT)	0.05 10-11 -0.07 11-12	>999 240 >999 180	MT20	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.78 Matrix-SH	Horz(CT)	0.01 10	n/a n/a	Weight: 266 lb	FT = 20%
BCDL 10.0			Mathx of t					11 - 2070
TOP CHORD 2x4 SP No	.2			TOP CHORD	Structural wo	od sheathing directly	applied or 2-2-0 oc	purlins, except
BOT CHORD 2x4 SP No WEBS 2x4 SP No	.2 .3 *Except*			BOT CHORD	end verticals. Rigid ceiling	directly applied or 10-	0-0 oc bracing.	
W1: 2x6 SI	P No.2			WEBS	1 Row at mid	pt 5-14		
					be installed	during truss erection,	ers and required cro , in accordance with	ss bracing Stabilizer
REACTIONS. (lb/size)	16=469/0-3-8 (min. 0-1-8)	. 14=1315/0-3-8	(min. 0-1-10). 10=6	75/0-3-0 (min. 0- ⁻	Installation	guide.		
Max Horz	16=-230(LC 12)	C 14) 10- 110/I	C 15)		- /			
Max Opint Max Grav	16=498(LC 21), 14=1357(L	_C 3), 10=725(L	C 22)					
FORCES. (Ib) - Max. Cor	mp./Max. Ten All forces :	250 (lb) or less e	except when shown.					
TOP CHORD 2-3=-437 2-16=-44	/64, 5-40=-4/305, 5-41=-24 3/102	40/292, 6-41=-32	20/268, 6-7=-394/259	9, 7-8=-796/475,				
BOT CHORD 15-16=-2	42/417, 15-42=-114/323, 4	2-43=-114/323,	14-43=-114/323, 12-	-45=-230/583,				
WEBS 5-12=-45	0/552, 7-12=-547/335, 5-1	4=-884/397, 3-1	4=-583/222, 3-15=0/	269, 8-11=-144/38	31			
NOTES- (12-15)								
1) Unbalanced roof live lo 2) Wind: ASCE 7-16: Vult	ads have been considered =120mph (3-second gust)	l for this design. Vasd=95mph [.] T	CDI =5 0psf: BCDI =	5 0psf: h=35ft: Ca	at II·Exp B·Ei	nclosed: Gable		
Roof; Common Truss;	MWFRS (envelope) gable	end zone and C	-C Exterior(2E) -0-10)-8 to 3-11-2, Inter	rior(1) 3-11-2 to	o 9-11-10,		
left and right exposed;	porch right exposed;C-C fo	or members and	forces & MWFRS fo	r reactions shown	; Lumber DOL	=1.60 plate grip		
3) Truss designed for win	nd loads in the plane of the	truss only. For	studs exposed to wi	nd (normal to the f	face), see Star	ndard Industry	and the second second	
Gable End Details as a 4) TCLL: ASCE 7-16: Pr=	pplicable, or consult qualif 20.0 psf (roof LL: Lum DO	ied building des L=1.15 Plate DC	igner as per ANSI/TF)L=1.15): Pf=20.0 ps	인 1. f (Lum DOL=1.15	Plate DOL=1.	15): ls=1.0: Rough	ATH CAHOL	11111
Cat B; Partially Exp.; C	e=1.0; Cs=1.00; Ct=1.10	r this design	- //			Innin	PROF PAR	A HANNING STATE
6) This truss has been de	signed for greater of min ro	of live load of 1	2.0 psf or 2.00 times	flat roof load of 2	0.0 psf on ove	rhangs	SEAL	
7) All plates are 2x4 MT2	ter live loads.) unless otherwise indicate	ed.				11111	28147	
8) Gable studs spaced at	2-0-0 oc. signed for a 10.0 psf botto	m chord live loa	d nonconcurrent with	any other live loa	de	IIIII	SALA AND	- Mun
10) * This truss has been fit botween the better	designed for a live load of	30.0psf on the b	oottom chord in all ar	eas where a recta	ingle 3-6-0 tall	by 1-0-0 wide will	ARK	mint
11) Provide mechanical c	onnection (by others) of tru	uss to bearing pl	ate capable of withst	anding 100 lb upli	ift at joint(s) 16	except (jt=lb)	The A. MOUNT	
14=140, 10=119.							10/30/202	4
Warning !Verify design Continued on page 2	parameters and read notes b	efore use. This de	sign is based only upon	parameters shown, and optimized as a second state of the second st	nd is for an indiv	idual building component	to be installed and loa	ded al support
of individual web members	only. Additional temporary bra	icing to ensure stab	ility during construction	is the responsibility	of the erector A	dditional permanent brac	cing of the overall struct	ure is the

of individual web members only. Additional temporary bracing to ensure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI 1 *National Design Standard for Metal Plate Connected Wood Truss Construction* and BCSI 1-03 Guide to *Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses* from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

Job	Truss	Truss Type	Qty	Ply	LOT 90 PROVIDENCE CREEK 83 DAVINI	HALL DRIVE FUQUAY-VARINA, NC
24-0270-R01	R12	GABLE	1	1	Job Reference (optional)	# 53757
		R	un: 8.430 s Feb 12	2021 Print	t: 8.630 s Jul 12 2024 MiTek Industries. Inc.	Wed Oct 30 21:14:56 2024 Page 2

12) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced. 13) Bearing symbols are not considered in the structural design of the truss to support the

loads indicated. 14) Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate

14) Web blacking shown is to hater support of individual web individual web individual to be of a basic of basic of basic of basic of hater of

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	LOT 90 PROVIDENCE CREEK 83 DAVI	NHALL DRIVE FUQUAY-VARINA, NC
24-0270-R01	R13	Common Girder	1	3	Job Reference (optional)	# 53757
			Run: 8.430 s Feb 12 ID:kHdPkcON9g	2021 Print 3_0IfrDBI	t: 8.630 s Jul 12 2024 MiTek Industries, Inc. IgKRzexCS-76CRsABGDU1SN_8h9r.	Wed Oct 30 21:15:01 2024 Page 2 zZwf0OdrQDfOgEOYA1efyO6ve

NOTES- (13-16)

- 11) Use Simpson Strong-Tie HTU26 (10-16d Girder, 14-10dx1 1/2 Truss) or equivalent spaced at 2-0-0 oc max. starting at 9-5-4 from the left end to 17-5-4 to connect truss(es) R10 (1 ply 2x4 SP), R09 (1 ply 2x4 SP) to front face of bottom chord.
- 12) Fill all nail holes where hanger is in contact with lumber.
- 13) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced. 14) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the
- loads indicated. 15) Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing
- Connected Wood Trusses for additional bracing guidelines, including diagonal bracing. 16) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 1-7=-60, 7-12=-60, 13-21=-20

Concentrated Loads (Ib)

Vert: 14=-518(F) 27=-699(F) 28=-699(F) 29=-699(F) 30=-699(F) 31=-867(F) 33=-867(F) 34=-347(F) 35=-347(F) 37=-347(F) 38=-518(F) 39=-518(F) 40=-518(F) 41=-518(F)

Job	Truss	Truss Type	Qty	Ply	LOT 90 PROVIDENCE CREEK 83 DAVINHALL DRIVE FUQUAY-VARINA, N
24-0270-R01	SP01	Hip Girder	1	1	Job Reference (optional) # 53757
	1	·			

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LOAD CASE(S) Standard

Uniform Loads (plf) Vert: 1-4=-60, 4-5=-60, 5-8=-60, 11-15=-20

Concentrated Loads (lb) Vert: 4=-94(B) 5=-94(B) 10=-27(B) 9=-27(B) 19=-139(F) 20=-94(B) 21=-139(F) 22=-64(B) 23=-27(B) 24=-64(B)

Max Grav 5=208(LC 21), 3=57(LC 21), 4=34(LC 7)

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

NOTES- (

- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

3) Unbalanced snow loads have been considered for this design.

4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.

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 1-0-0 wide will fit

between the bottom chord and any other members.

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

8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3, 4.

LOAD CASE(S) Standard

Max Horz 5=71(LC 14)

Max Uplift5=-20(LC 11), 3=-60(LC 14), 4=-19(LC 11) Max Grav 5=322(LC 21), 3=154(LC 21), 4=72(LC 7)

 $\operatorname{Max} \operatorname{Grav} 5 - 322(\operatorname{LC} 21), \ 5 - 154(\operatorname{LC} 21), \ 4 - 72(\operatorname{LC} 21)$

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-293/121

NOTES- (9)

- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough

Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

3) Unbalanced snow loads have been considered for this design.

4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.

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 1-0-0 wide will fit

between the bottom chord and any other members. 7) Refer to girder(s) for truss to truss connections.

8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3, 4.

of individual web members only. Additional temporary bracing to ensure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI 1 *National Design Standard for Metal Plate Connected Wood Truss Construction* and BCSI 1-03 Guide to *Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses* from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

Plate Connected Wood Truss Construction and BCSI 1-03 Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Co
D'Onofrio Drive, Madison, WI 53719.

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vertically. Applicability of design parameters and read notes before use. This design is based only upon parameters shown, and is for an individual building component to be instanted and toaded vertically. Applicability of design parameters and read notes before use. This design is observed in scheduling component is for lateral support of individual web members only. Additional temporary bracing to ensure stability during construction is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TP1 1 *National Design Standard for Metal Plate Connected Wood Truss Construction* and BCSI 1-03 Guide to *Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses* from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

