

All Headers Are Considered 2X10 Beams Unless Otherwise Noted

All Walls Shown Are Considered Load Bearing

Roof Area	= 1539.53 sq.ft.
Ridge Line	= 51 ft.
Hip Line	= 0 ft.
Horiz. OH	= 102 ft.
Raked OH	= 60.37 ft.
Decking	= 53 sheets

Dimension Notes 1. All exterior wall to wall dimensions are to face of sheathing unless noted otherwise 2. All interior wall dimensions are to face of stud unless noted otherwise 3. All exterior wall to truss dimensions are to face of stud unless noted otherwise

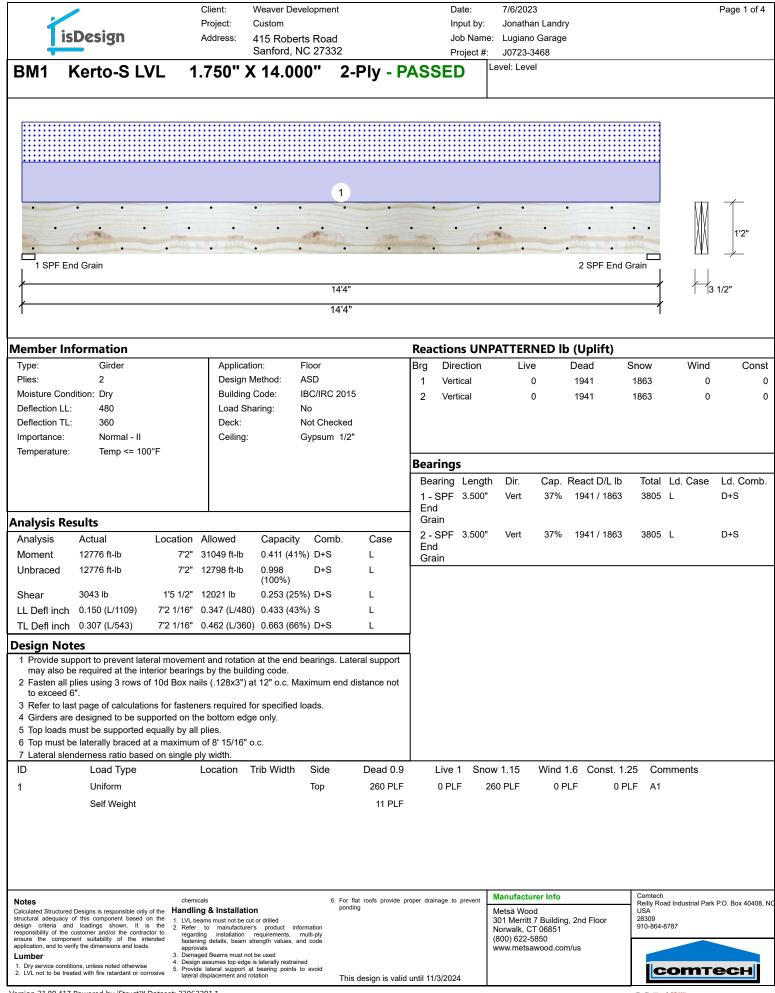
Hate	ch Legend
	Box Storage
	Drop Beam

		Products		
PlotID	Length	Product	Plies	Net Qty
BM1	15' 0"	1-3/4"x 14" LVL Kerto-S	2	4
BM2	25' 0"	1-3/4"x 14" LVL Kerto-S	2	2
GDH	24' 0"	1-3/4"x 18" LVL Kerto-S	2	2

Truss Placement Plan \sim Scale: 1/4"=1'

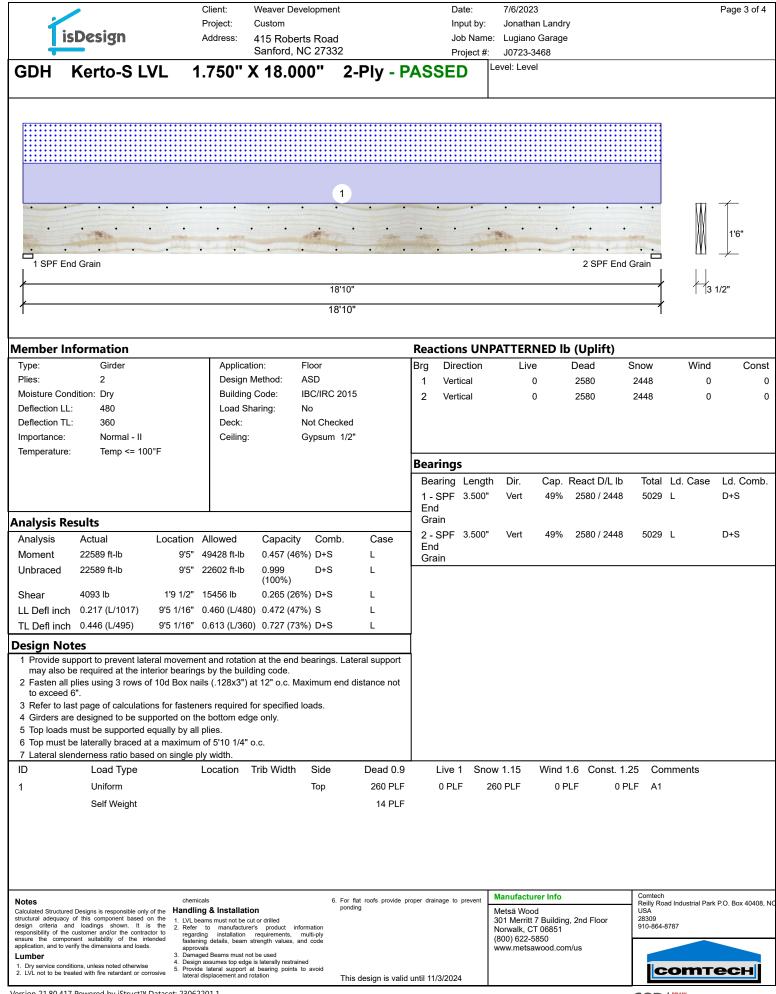
т	RUS	OF & SES	& FL & B	oof Ean	۸S
	Fayet Phon Fax:	teville e: (910 : (910)	, N.C. 0) 864 864-4		
deemed requirem attached requirem size and reaction 15000# retained reaction Tables retained	to compl nents. The Tables (nents) to number s greater A register to design that exce A register to design s that exce	y with the e contract derived f determin of wood s than 3000 red desig the sup eeds thos ed design the sup eed 1500	e prescrip tor shall r rom the p e the min studs req D# but no n profess port syste e specifie n profess port syste 0#.	tive Code efer to th prescriptiv imum fou- uired to s i greater t ional sha em for any ed in the a ional shal em for all	e ve Code Indation upport than II be y attached II be
Signatu	e			Lanc .andr	
	(BASED	ON TABL	ES R502.5(1		
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CITY / CO . Sanford / Lee	ADDRESS 415 Roberts Road	MODEL Roof	DATE REV. 07/06/23	DRAWN BY Jonathan Landry	SALES REP. Lenny Norris
Weaver Development	Lugiano Garage	Custom	SEAL DATE N/A		J0723-3468
			IENT DIA		
compor design See ind identifie designe perman for the support and col designe consult	nents to b at the spo ividual de ad on the er is respo ent bracin overall st t structure umns is t er. For ge BCSI-B1	be incorpo ecification esign she placeme onsible fo ng of the ructure. 1 e includir the respo neral guid and BCS	orated int n of the b ets for ea nt drawin or tempor roof and The desig ng header nsibility of dance reg il-B3 prov	ividual bu o the buil uilding de the truss g. The bu ary and floor syst n of the to s, beams of the buil parding br ided with sbcindus	ding esigner. design ilding tem and russ , walls, ding acing, the

▲= Denotes Left End of Truss (Reference Engineered Truss Drawing)



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r		Client: W	eaver Development	Date:	7/6/2023	Page 2 of 4
2			istom	Input by:		Page 2 01 4
	isDesign		5 Roberts Road	Job Nam	e: Lugiano Garage	
			anford, NC 27332	Project #	: J0723-3468 Level: Level	
BM1	Kerto-S L\	/L 1.750" X	14.000" 2-Ply	/ - PASSED	Level. Level	
•	• •	• • •	• •	• • •	• • •	= 1
	• •	• •				
					• • •-	<u> </u>
1 SPF	F End Grain				2 SPF End	Grain Grain
/			14'4"			3 1/2"
/			14'4"			
I			177			I
Multi-Plv	y Analysis					
-		s of 10d Box nails (12	28x3") at 12" o.c Max	imum end distance n	ot to exceed 6"	
Capacity	i plies using 5 10W	0.0 %				
.oad	er Feet	0.0 PLF				
ïeld Limit pe ïeld Limit pe	er Foot er Fastener	245.6 PLF 81.9 lb.				
ield Mode		IV				
dge Distan /in. End Dis		1 1/2" 3"				
oad Combii.		3				
Duration Fac		1.00				
					Manufactures Info	Comtech
Notes	ctured Designs is responsible only	chemicals	6. For flat roofs ponding	provide proper drainage to prevent	Manufacturer Info Metsä Wood	Comtech Reilly Road Industrial Park P.O. Box 40408, N USA
structural adequ design criteria	uacy of this component based o and loadings shown. It is	the 1. LVL beams must not be cut or the 2. Reference manufacturaria	drilled product information		301 Merritt 7 Building, 2nd Floor	28309 910-864-8787
responsibility of ensure the co	the customer and/or the contract omponent suitability of the inte	nded regarding installation req	uirements, multi-ply		Norwalk, CT 06851 (800) 622-5850	
application, and Lumber	to verify the dimensions and loads.	approvals 3. Damaged Beams must not be	used		www.metsawood.com/us	
 Dry service of 2. LVL not to be 	conditions, unless noted otherwise e treated with fire retardant or corr	 Design assumes top edge is la 5. Provide lateral support at be lateral displacement and rotati 	earing points to avoid	n is valid until 11/2/2024		соттесн
		,	i nis aesig	n is valid until 11/3/2024		



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1	isDesign		Client: Project: Address:	Weaver Developme Custom 415 Roberts Roa Sanford, NC 273	ıd	lr بار	ate: nput by: ob Name: roject #:	7/6/2023 Jonathan Landry Lugiano Garage J0723-3468	Page 4 of 4
GDH	Kerto-S	LVL	1.750"	X 18.000"		PASSE		evel: Level	
	· · ·	· · ·	· · ·	· · ·	· · ·	· · ·	•	· · · · ·	· · · · · · · · · · · · · · · · · · ·
1 SPF	End Grain							2 SPF I	
ļ					18'10" 8'10"				1 1/2"
									ľ
Capacity Load Yield Limit p Yield Mode Edge Distan Min. End Dis Load Combi Duration Fac	per Fastener nce stance ination	0.0 % 0.0 P 245.6 81.9 IV 1 1/2 3" 1.00	LF i PLF b.						
structural adequidesign criteria responsibility of ensure the co application, and Lumber 1. Dry service of	ctured Designs is responsibl uacy of this component be and loadings shown. If the customer and/or the omponent suitability of the to verify the dimensions and conditions, unless noted oth se treated with fire retardant	ased on the 1. It is the 2. contractor to te intended I loads. 3. erwise 5.	regarding installation fastening details, beam approvals Damaged Beams must Design assumes top ed	tion cutor drilled rers's product information requirements, multi-ply n strength values, and code not be used ge is laterally restrained t at bearing points to avoid	ponding	ide proper drainage to valid until 11/3/202	prevent	Manufacturer Info Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us	Comtech Reilly Road Industrial Park P.O. Box 40408, I USA 28309 910-864-8787
Version 21 80	.417 Powered by iStru		22062201 1						

by



Trenco 818 Soundside Rd Edenton, NC 27932

Re: J0723-3468 Lugiano Garage

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Comtech, Inc - Fayetteville.

Pages or sheets covered by this seal: I59365369 thru I59365371

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

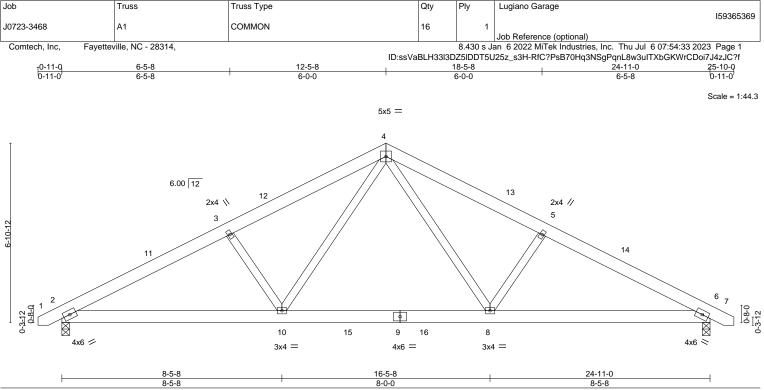
North Carolina COA: C-0844



July 6,2023

Gilbert, Eric

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



		8-5-8				8-0-0					8-5-8	
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	0.21	Vert(LL)	-0.07	8-10	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.28	Vert(CT)	-0.12	8-10	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.60	Horz(CT)	0.03	6	n/a	n/a		
BCDL	10.0	Code IRC2015/T	PI2014	Matrix	k-S	Wind(LL)	0.09	2-10	>999	240	Weight: 161 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. (size) 2=0-3-8, 6=0-3-8 Max Horz 2=-86(LC 10) Max Uplift 2=-221(LC 9), 6=-221(LC 8) Max Grav 2=1037(LC 1), 6=1037(LC 1)

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

TOP CHORD 2-3=-1653/1357, 3-4=-1466/1374, 4-5=-1466/1374, 5-6=-1653/1358

BOT CHORD 2-10=-1110/1403, 8-10=-675/951, 6-8=-1115/1403

WEBS 4-8=-616/566, 5-8=-338/214, 4-10=-616/566, 3-10=-338/214

NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 12-5-8, Exterior(2) 12-5-8 to 16-10-5, Interior(1) 16-10-5 to 25-7-10 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 221 lb uplift at joint 2 and 221 lb uplift at joint 6.

 See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

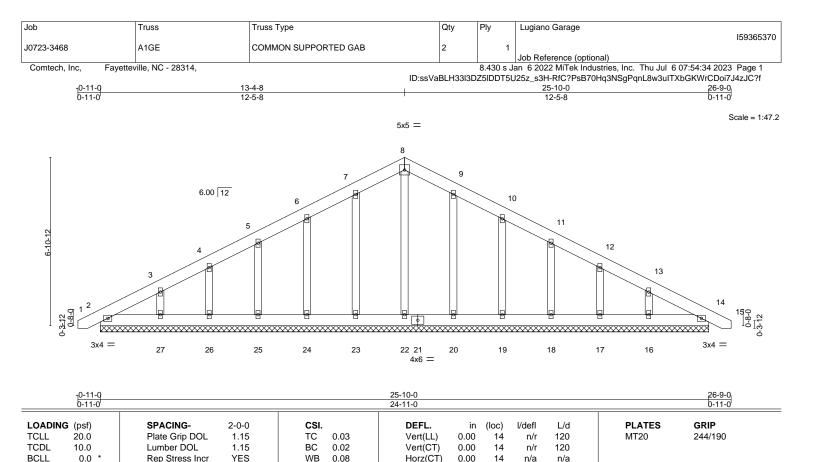
SEAL 036322 July 6,2023

Structural wood sheathing directly applied or 5-11-2 oc purlins.

Rigid ceiling directly applied or 7-2-4 oc bracing.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





BRACING-

TOP CHORD

BOT CHORD

OTHERS	

BOT CHORD

LUMBER-TOP CHORD

BCDL

10.0

2x4 SP No.2 REACTIONS. All bearings 24-11-0.

2x6 SP No.1

2x6 SP No.1

(lb) -Max Horz 2=-133(LC 17)

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

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

Matrix-S

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

Code IRC2015/TPI2014

NOTES-

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

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

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

- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide 8) will fit between the bottom chord and any other members.

9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 23, 24, 25, 26, 27, 20, 19, 18, 17, 16.

10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



Weight: 182 lb

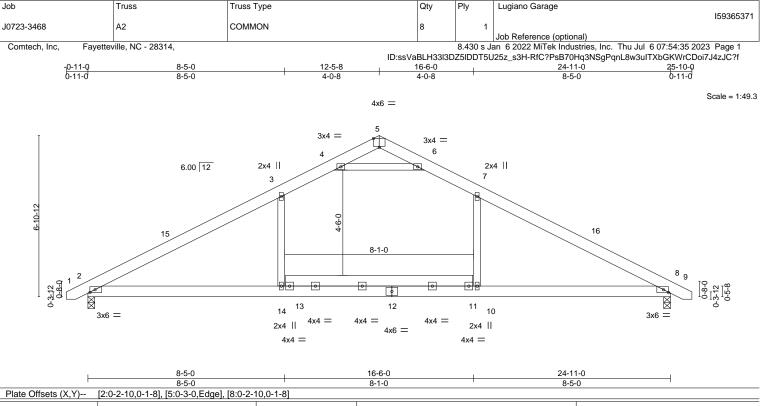
Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

FT = 20%

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818 Soundside Road Edenton, NC 27932



CDL 10.0 Lumber DOL 1.15 BC 0.46 Ver	/ert(LL) -0.19 /ert(CT) -0.29		>999 360	-	244/190
CLL 0.0 * Rep Stress Incr YES WB 0.53 Ho	Horz(CT) 0.03		>999 240 n/a n/a		
CDL 10.0 Code IRC2015/TPI2014 Matrix-S Wir	Vind(LL) 0.13	13 2-14	>999 240	Weight: 165 lb	FT = 20%

BOT CHORD

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

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

REACTIONS. (size) 2=0-3-8, 8=0-3-8 Max Horz 2=-86(LC 10) Max Uplift 2=-71(LC 12), 8=-71(LC 13) Max Grav 2=1085(LC 2), 8=1085(LC 2)

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

 TOP CHORD
 2-3=-1701/336, 3-4=-1339/387, 4-5=-157/758, 5-6=-157/758, 6-7=-1339/387,

- 7-8=-1701/336

BOT CHORD 2-14=-161/1392, 10-14=-165/1393, 8-10=-161/1392 WEBS 7-10=0/451, 3-14=0/451, 4-6=-2240/585

NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 12-5-8, Exterior(2) 12-5-8 to 16-7-12, Interior(1) 16-7-12 to 25-7-10 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide 4) will fit between the bottom chord and any other members, with BCDL = 10.0psf.

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

6) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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