ㅋEAGLE METAL

12300 Ford Rd, Suite 110 Dallas, Texas 75234

eaglemetal.com

The truss designs referenced below have been prepared by me or under my direct supervision based on the truss design criteria and requirements ("design criteria") provided by **Master Building Components**.

These truss designs are intended for the fabrication of individual building components that will perform to the design criteria provided. Any variance from the design criteria will render the affected truss designs inapplicable.

Listed below are the truss designs included in this package and covered by this seal.

Job: McKeller, Peter - 1132366 McKeller-40_55, McKeller-40G_55

Any location identification is for file reference only. No determination of the appropriateness of design criteria for any specific project has been made in preparing the truss designs.

Please refer to individual truss designs for specific design criteria.



Arturo A. Hernandez (NY, 083684-1)

My license renewal date for the state of NY is 10/31/2020.

IMPORTANT NOTE: The responsibility of the engineer sealing this package, as a Truss Engineer, is solely for design of individual trusses as individual building components based upon design criteria provided by others and set forth in the referenced truss drawings. The truss design criteria for the components have not been verified as appropriate for any particular building, project or use. Adequacy and suitability of design criteria and requirements for the truss designs for any specific project are the responsibility of the building designer, not the Truss Engineer, per ANSI/TPI-1, Chapter 2.

DESIGN NOTES

- The Truss Design Drawing(s) provided with these Design Notes Capitalized terms have the meanings provided in ANSI / TPI 1. published by the Truss Plate Institute, www.tpinst.org. have been prepared under and are subject to ANSI / TPI 1
- 'n installation contractor, Building Designer, Owner and all persons Copies of each Truss Design Drawing shall be furnished to the fabricating, handling, installing, bracing, or erecting the trusses.

DESIGN LIMITATIONS

- ω the Truss Designer, Eagle, nor an engineer who seals this design by the Building Designer in accordance with ANS1 / TPI 1. Neither The Truss Design Drawing is based upon specifications provided of specifications provided by the Building Designer. (if any) assumes any responsibility for the adequacy or accuracy
- general conformance with the design of the Building. based upon the Truss Design Drawing and shall be responsible The Building Designer is solely responsible for the suitability for reviewing and verifying that the information shown is in

17.

16.

- Ģ component (a truss). A seal on the Truss Design Drawing Each Truss Design Drawing is for the individual building solely for the individual truss indicates acceptance of professional engineering responsibility
- Ġ Each Truss Design Drawing assumes trusses will be suitably protected from the environment.

HANDLING, INSTALLING, & BRACING

- .7 be obtained from the Structural Building Components handling, installing, restraining and bracing trusses. Copies can Refer to Building Component Safety Information (BCSI) for Association, www.sbcindustry.com.
- œ support of individual truss components only to reduce buckling lengths. All temporary and permanent bracing, including lateral Bracing shown on each Truss Design Drawing is for lateral load and diagonal or cross bracing, are the responsibility, respectively, of the erector and Building Designer.
- 9 Eagle is not responsible for improper truss fabrication, handling, erection or bracing.
- ю. Compression chords shall be laterally braced by the roof or floor sheathing, directly attached, or have purlins provided at spacing shown, unless noted otherwise.

- 11. Bottom chord required bracing shall be at 10ft spacing or less, if no structural rated ceiling is installed, unless noted otherwise.
- 12. including flooring systems, to limit deflection and reduce Strongbacking shall be installed on all parallel chord trusses,
- 13. other materials on inadequately braced truss; refer to BCSI Never exceed the design loading shown. Never stack building or
- 14. shall not be applied to the trusses at any time; refer to BCSI Concentration of construction loads greater than the design loads
- 15 Refer to BCSI for recommended truss handling and erection. Trusses shall be handled with care prior to erection to avoid damage.

MATERIALS & FABRICATION

- Lumber moisture content shall be 19% or less at the time of fabrication unless noted otherwise.
- Lumber used shall be of the species and size, and in all respects equal to or better than that specified
- 18. use with fire retardant or preservative treated lumber Unless expressly noted, the truss designs are not applicable for
- 19. embedded fully. Knots and wane at joint locations shall be Plates shall be applied on both faces of truss at each joint and regulated in accordance with ANSI / TPI 1.
- 20. For a specified plate gauge and grade, the specified size is a
- 21. Connections not shown are the responsibility of others.
- 22. uplift loads. Adequate support shall be provided to resist gravity, lateral and
- 23. edge of the truss. For 4X2 truss orientation, locate plates 0 - 1/16" from outside the
- 24. Fabrication of truss shall be in accordance with ANSI / TPI 1.

OTHER NOTES

- 25 Camber is a non-structural consideration and is the responsibility of truss fabricator.
- 26 Do not cut or alter any truss member or plate without prior approval from a professional engineer.
- 27. Lumber design values are in accordance with ANSI / TPI 1; lumber design values are by others.
- 28. Install specified hangers per manufacturer recommendations.

SYMBOLS

PLATE SIZE

3X4 - The first dimension is the width the length parallel to slots. perpendicular to slots. Second dimension is

-, /, I, Indicates required direction of information. slots; Reference "Joint Details" for more

3X10-20HS - 20 Ga Gr60 connectors required 8X10-18HS - 18 Ga Gr60 connectors required 20 Ga Gr40 connectors required

LATERAL BRACING

required on the member of the truss. When this symbol shown, continuous lateral bracing is



Indicates location where bearings

BEARING

(supports) occur.



PLATE LOCATION & ORIENTATION

with the design drawing/QC full joint and/or placed in accordance scale details. The plate shall be centered on

REFERENCES

- Metal Plate Connected Wood Trusses •ANSI / TPI 1: National Design Standard for
- Handling, Installing, Restraining, & Bracing of Metal Plate Connected Wood Trusses. Information - Guide to Good Practice for •BCSI: Building Component & Safety
- •NDS: National Design Specification for Wood
- Code Council. www.icc-es.org •ESR: 1082 published by the International

Master Building Components

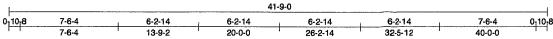
109 Quinter Farm Road Union, OH 45322 Ph: 937-246-1414

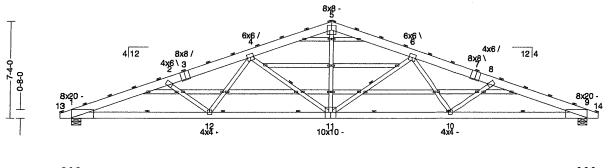
Truss:McKeller-40G 55

McKeller, Peter DesigneRob Ridoutt Date: 09/10/20 10:52:05

age:	1 of 2
------	--------

SPAN 40-0-0	4/12	2	0-10-8	OHR 0-10-8	0-0-0	0-0-0	1	SPACING 48 in	318 lbs





0-0-0				0-0-0
1	10-7-11	9-4-5	9-4-5	10-7-11
	10-7-11	20-0-0	29-4-5	40-0-0

All plates shown to be Eagle 20 unless otherwise noted.

Loading (psf)	General		CSI		Deflecti	on	L	(loc)	Allowed
TCLL: 38.5	Bldg Code:	IBC 2018/	TC:	0.90(1-2)	Vert TL:	0.8 in	L/580	(10-11)	L/240
TCDL: 5(rake)	_	TPI 1-2014	BC:	0.64(12-1)	Vert LL:	0.62 in	L/752	(10-11)	L/360
BCLL: 0	Rep Mbr:	No	Web:	0.84 (6-11)	HorzTL:	0.28 in		9	
BCDL: 5	Lumber D.O.L	.: 115%			1				00/1

Reaction

TAVE	er from								
JT	Brg Combo	Brg Width	Rqd Brg Width	Max React	Max Grav Uplift	Max MWFRS Uplif	Max C&C Uplift	Max Uplift	Max Horiz
1	1	8.5 in	4.86 in	4,117 lbs		-529 lbs	-1,372 lbs	-1,372 lbs	-42 lbs
0	1	0 5 1	106:-	41175		520 lba	1 272 fba	1 272 800	

Material

TC: SYP#1 2x 8 BC: SYP2400/1.72x6 Web: SPF#2 2 x 4

Bracing

TC: Purlins at 24 "OC, Purlin design by Others. BC: Sheathed or Purlins at 5-10-0, Purlin design by Others.

Web: One Midpoint Row: 4-11, 6-11

1) This truss has been designed for the effects of balanced (38.5 psf) and unbalanced sloped roof snow loads in accordance with ASCE7 - 16 with the following user defined input: 55 psf GSL, Terrain C, Exposure (Ce = 1.0), Risk Category II (I = 1.00), Thermal (Ct = 1.00), DOL = 1.15. Unobstructed slippery surface. If the roof configuration differs from hip/gable, Building Designer shall verify snow loads.

- 2) This truss has been designed to account for the effects of ice dams forming at the eaves.
 3) This truss has been designed for the effects of wind loads in accordance with ASCE7 16 with the following user defined input: 120 mph (Factored), Exposure C, Enclosed, Gable, Risk Category II, h=19.67 ft, Overall Building Square Footage = 2,560 ft^2 (B=L=51), End Zone Truss, Both end webs considered. DOL=
- 4) This truss has been designed for the effects of TC LL = 20 psf.
- Minimum storage attic loading has not been applied in accordance with IBC 1607.1

1416		LOICO	iac	CHERCES. W	THE IL	, man cus,	HER GRIEG BANG	, time water to	WI CI	THE HOLE	THE WALL AND	, City Live	Diction of	Mar Doortoo	CEC GEOTHIELE	D CEAC
TC	1-2	0.900	-9,951 lbs		4-5	0.522	-6,353 lbs	6	-8	0.830	-8,893 lbs					
	2-4	0.830	-8,893 lbs		5-6	0.522	-6,353 lbs	8	9	0.900	-9,951 lbs					
BC	9-10	0.638	9,264 lbs	(-2,541 lbs)	10-11	0.523	7,693 lbs	(-2,075 lbs) 1	1-12	0.523	7,693 lbs	(-2,075 lbs)	12-1	0.638	9,264 lbs	(-2,541 lbs)
Web	2-12	0.368	-1,231 lbs		4-11	0.839	-2,883 lbs	6	-11	0.839	-2,883 lbs		8-10	0.368	-1,231 lbs	
	4-12	0.261	1,065 lbs	(-119 lbs)	5-11	0.661	2,693 lbs	(-6441bs) 6-	-10	0.261	1,065 lbs	(-1191bs)				- 1

Notes

- 1) Unless noted otherwise, do not cut or alter any truss member or plate without prior approval from a Professional Engineer.
- 2) Gable webs placed at 24 " OC, U.N.O.
- 3) Attach structural gable blocks with 1.5x3 20ga plates, U.N.O.
- 4) Bracing shown is for in-plane requirements. For out-of-plane requirements, refer to BCSI-B3 published by the SBCA.
 5) The fabrication tolerance for this roof truss is 10 %(Cq = 0.90).
- 6) Building Designer shall verify self weight of the truss and other dead load materials do not exceed TCDL 5 psf.
- 3) Building Designer shall verify self-weight of the truss and other dead load materials do not exceed BCDL 5 psf.

 3) Design assumes minimum _x2 (flat orientation, visually graded) purlins attached to the top of the TC at purlin spacing shown with at least 2-10d nails.
- 9) Gable must be sheathed on one side or lateral bracing applied appropriately.
 10) Lateral bracing shown is for illustration purposes only and may be placed on either edge of truss member.
- 11) A creep factor of 1.00 has been applied for this truss analysis.
- 12) The "SYP" label shown in the "Material Summary" above indicates the new SPIB design values effective June 1, 2013 were used.

ALL PERSONS FABRICATING, HANDLING, ERBCTING OR INSTALLING ANYTRUSS BASED UPON THIS TRUSS DESIGN DRAWING ARE INSTRUCTED TO REFER TO ALL OF THE INSTRUCTIONS, LIMITATIONS AND QUALIFICATIONS SET FORTH IN THE EAGLE METAL PRODUCTS DESIGN NOTES ISSUED WITH THIS DESIGNAND AVAILABLE FROM EAGLE UPON REQUEST. DESIGN VALID ONLY WHEN EAGLE METAL CONNECTORS ARE USED.

Master Building Components Truss:McKeller-40G_55 109 Quinter Farm Road Job: McKeller, Peter DesigneRob Ridoutt Union, OH 45322 Ph: 937-246-1414 Date: 09/10/20 10:52:05 Page: 2of2 PITCH SPAN QTY OHL OHR CANTL CANTR PLYS SPACING 40-0-0 WGT/PLY 4/12 0-10-8 0-10-8 0-0-0 0-0-0 48 in 318 lbs

ALL PERSONS FABRICATING, HANDLING, ERECTING OR INSTALLING ANYTRUSS BASED UPON THIS TRUSS DESIGN DRAWING ARE INSTRUCTED TO REFER TO ALL OF THE INSTRUCTIONS, LIMITATIONS AND QUALIFICATIONS SET FORIHIN THE EAGLE METAL PRODUCTS DESIGN NOTES ISSUED WITH THIS DESIGNAND AVAILABLE FROM EAGLE UPON REQUEST. DESIGN VALID ONLY WHEN EAGLE METAL CONNECTORS ARE USED.

TrueBuild®Truss Software v5.6.371 Eagle Metal Products

^{13) 🖾} Indicates lateral bracing required perpendicular to the plane of the truss at either the midpoint (one shown) or third points (two shown), bracing by others. See BCSI-B3 for additional information.

14) □ Indicates non-structural members.

¹⁵⁾ Listed wind uplift reactions based on MWFRS & C&C loading.

Master Building Components 109 Quinter Farm Road

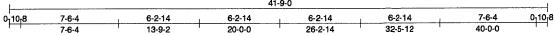
Union, OH 45322 Ph: 937-246-1414 Truss:McKeller-40_55

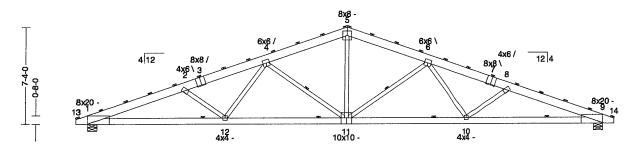
Job: McKeller, Peter Designer Rob Ridoutt Date: 09/10/20 10:52:08

	05, 20, 2
Page:	1 of 1

09/10/2022

SPAN	PITCH	QTY	OHL	OHR	CANT L	CANT R	PLYS	SPACING	WGT/PLY
40-0-0	4/12	15	0-10-8	0-10-8	0-0-0	0-0-0	1	48 in	269 lbs
			.,	A1	-9-0				





0-0-0					0-0-0
1	10-7-11	9-4-5	9-4-5	10-7-11	_
	10-7-11	20-0-0	29-4-5	40-0-0	ş

All plates shown to be Eagle 20 unless otherwise noted.

Loading (psf)	General		CSI	Deflection	ì	L/	(loc)	Allowed
TCLL: 38.5	Bldg Code:	IBC 2018/	TC: 0.90(1-2)	Vert TL:	0.8 in	L/580	(10-11)	L/240
TCDL: 5(rake)	_	TPI 1-2014	BC: 0.64(12-1)	Vert LL:	0.62 in	L/752	(10-11)	L/360
BCLL: 0	Rep Mbr:	No	Web: 0.84(6-11)	HorzTL:	0.28 in		9	
BCDL: 5	Lumber D.O.L.:	115%	1					00/10/

T.C	activii									
JT	Brg Combo	Brg Width	Rqd Brg Width	Max React	Max Grav Uplift	Max MWFRS Uplift N	fax C&C Uplift	Max Uplift	Max Horiz	Į
1	1	8.5 in	4.86 in	4,117 lbs		-529 lbs	-502 lbs	-529 lbs	-42 lbs /	I
9	1	8.5 in	4.86 in	4,117 lbs	•	-529 lbs	-502 lbs	-529 lbs	· 1	l

Material

TC: SYP#1 2x8 BC: SYP2400/1.7 2 x 6 Web: SPF#2 2 x 4

Bracing

TC: Purlins at 24" OC, Purlin design by Others.

BC: Sheathed or Purlins at 8-11-0, Purlin design by Others.

Web: One Midpoint Row: 4-11, 6-11

Loads

1) This truss has been designed for the effects due to 10 psf bottom chord live load plus dead loads.

2) This truss has been designed for the effects of balanced (38.5 psf) and unbalanced sloped roof snow loads in accordance with ASCE7 - 16 with the following user defined input: 55 psf GSL, Terrain C, Exposure (Ce = 1.0), Risk Category II (I = 1.00), Thermal (Ct = 1.00), DOL = 1.15. Unobstructed slippery surface. If the roof configuration differs from hip/gable, Building Designer shall verify snow loads.

3) This truss has been designed to account for the effects of ice dams forming at the eaves.

4) This truss has been designed for the effects of wind loads in accordance with ASCE7 - 16 with the following user defined input: 120 mph (Factored), Exposure C, Enclosed, Gable, Risk Category II, h=19.67 ft, Overall Building Square Footage = 2,560 ft/2 (B=L=51), Not End Zone Truss, Both end webs considered. DOL

5) This truss has been designed for the effects of TC LL = 20 psf.

6) Minimum storage attic loading has not been applied in accordance with IBC 1607.1

Member Forces	Table indicates: Member ID, max CSI, max axial force (max comor, force if different from max axial force). Only forces greater than 300lbs are shown in this table.
Wiemher Horces	Table indicates: Member ID, max CNI, max axial force, (max comor, force if different from max axial force). Only forces greater than 300/los are shown in this table.

					incontractor management and contractor and contract												
•	TC	1-2	0.900	-9,951 lbs		4-5	0.522	-6,353 lbs	1	6-8	0.830	-8,893 lbs		I			
		2-4	0.830	8,893 lbs		5-6	0.522	-6,353 lbs		8-9	0.900	-9,951 lbs		L			
j	BC	9-10	0.638	9,264 lbs	(-1,095 lbs)	10-11	0.523	7,693 lbs	(-8071bs)	11-12	0.523	7,693 lbs	(-807 lbs)	12-1	0.638	9,264lbs	(-1,095 lbs)
•	Web	2-12	0.368	-1.231 lbs		4-11	0.839	-2,883 lbs		6-11	0.839	-2,883 lbs		8-10	0.368	-1,231 lbs	
		4-12	0.261	1.065 lbs	(-12 lbs)	5-11	0.661	2,693 lbs	(-294 lbs)	6-10	0.261	1,065 lbs	(-12 lbs)				- 1

- 1) Unless noted otherwise, do not cut or alter any truss member or plate without prior approval from a Professional Engineer.
- 2) The fabrication tolerance for this roof truss is 10%(Cq = 0.90).
- 3) Building Designer shall verify self weight of the truss and other dead load materials do not exceed TCDL 5 psf.
- 4) Building Designer shall verify self weight of the truss and other dead load materials do not exceed BCDL 5 psf.
- 5) Design assumes minimum x2 (flat orientation, visually graded) purlins attached to the top of the TC at purlin spacing shown with at least 2-10d nails.
 6) Brace bottom chord with approved sheathing or purlins per Bracing Summary.
- 7) Lateral bracing shown is for illustration purposes only and may be placed on either edge of truss member. 8) A creep factor of 1.00 has been applied for this truss analysis.

- 9) The "SYP" labelshown in the "Material Summary" above indicates the new SPIB design values effective June 1, 2013 were used.

 10) Indicates lateral bracing required perpendicular to the plane of the truss at either the midpoint (one shown) or third points (two shown), bracing by others. See BCSI-B3 for additional information.

11) Listed wind uplift reactions based on MWFRS & C&C loading.