## CITY OF NAPOLEON GENERAL PERMIT APPLICATION

THIS APPLICATION IS FOR RESIDENTAL CONSTRUCTION INCLUDING BUILDING, ELECTRICAL, PLUMBING, MECHANICAL & REMODELING

B1dg.

DATE 11-5-13 JOB LOCATION STREET		· ·	966 101
OWNER NATHAN MINICK	ELEPHONI	E# 419-5	79-0511
OWNER ADDRESS 408 W MAUM EE			11 311
CONTRACTOR Holgate Lumber CA	ZLI PHON	r# CGG J	1070-100
DESCRIPTION OF WORK TO BE PERFORMED NEW Pole BARN	_	x60x12	375 153
TO DETENTION TO TOTAL STATE OF THE STATE OF	70	X60X12	
ESTIMATED COMPLETION DATE//- /-/3 ESTIMATED (	COST #	9,500	
Affected Floor Area (AFA): In existing structures, it is the area affected by the improvement, i.e. a ne only the room and not all the rooms).	w wall dividi	ng a room (the A)	FA would be
DESCRIPTION	FRE	TOTAL CO	OCT
BUILDING:	0 1462	TOTALC	731
Decks	\$25,00	\$	
Addition & Alterations Square foot in (AFA) x \$0.05 = \$ +	\$25.00 =	\$	
Garage and Shed over 200 SF (Detached)	\$25.00	\$ 25.0	20
Siding and/or Roofing	\$25.00	\$	
Windows/Doors	\$25,00	\$	
ELECTRICAL:		Ψ	
Electrical Circuits in (AFA) x \$3.00/Circuit = \$ +	\$25.00 =	\$	
Electrical Service Upgrade	\$25.00	\$	
MECHANICAL:	72-100	Ψ	
Water Heater	\$25.00	\$	
Furnace and/or AC Replacement	\$25.00	\$	
PLUMBING:	420100	Ψ	
Plumbing Traps in (AFA)x \$3.00/Trap = \$+	\$25.00 =	\$	
TOTAL plus Ohio Board of Building Standard	ls Fee 1%	\$ ,2	!5
1 FULLY UNDERSTAND THAT NO EXCAVATION, CONSTRUCTION OR STRUCTURAL ALTERATION, ELECTRICA ALTERATION OF ANY BUILDING STRUCTURE, SIGN, OR PART THEREOF AND NO USE OF THE ABOVE SHALL B PERMIT APPLIED FOR HEREIN HAS BEEN APPROVED AND ISSUED BY THE CITY OF NAPOLEON BUILDING/ZOI	FAL FEE: LOR MECHAN BE UNDERTAKI	\$ 25, 2 lical installat en or performe	5 TON OR ED UNTIL THE
I hereby certify that I am the Owner of the named property, or that the proposed work is authorized by the Owner of record and that I had application as his/her authorized agent and I agree to conform to all applicable laws of the jurisdiction. In addition, if a permit for Wo applicable to such permit.	ave been authoriz	ed by the Owner to m	ake this d, I certify that s of the code(s)
I HEREBY ACKNOWLEDGE THAT I HAVE READ AND FULLY UNDERSTAND THE ABOVE LISTED IN	NSTRUCTION	is.	
SIGNATURE OF APPLICANT: Durin D. Tilse DATE:	11-5-13		
PRINT NAME: BRIAN & TILSE			
PERMIT# BATCH# CHECK# COS	_ DATE	-5-13	
Earl Caldwell - concrete		wachtman/Downloads/General	Permit Application.doc

P.O. Box 174 Napoleon, Ohio 43545 Phone & Fax 419/599-8339

Ron Sonnenberg
Drafting & Design
Construction, &
Planning Assistance

December 27, 2013

Attn: Mr. Tom Zimmerman Napoleon City Building Inspection 255 W. Riverview Avenue P.O. Box 151 Napoleon, Ohio 43545

Ref: Nathan Minnick, 40'x60' Accessory

(42'x62' w/overhangs) - storage bldg.

Residential occupancy. 600 block of Second Street Napoleon, Ohio 43545 Builder: Holgate Lumber Co.

Dear Mr. Zimmerman,

It is my understanding that there was some confusion regarding the permit approval process for the referenced building with the Builder initially believing that the Owner had secured all of the required zoning and building permits & plan approvals through your office. Then, assuming the permits and plans (as given to the owner) had been approved by your office; the Builder proceeded with construction in compliance with those plans (copies attached). When notified by your office that the building, as constructed, did not comply with some items of the prescriptive code requirements for this type of building (ref: Sec. 324 of the Ohio Residential Code) Holgate Lumber contacted us to request a review of the building.

This letter is in response to your, and Holgate Lumber Company's, request for an engineer's review of the construction methods and materials utilized for construction of the above referenced structure.

Our review of the subject structure indicates that the building appears to meet all but one (1) of the eight (8) requirements noted in Section 324.1 O.R.C. in order to be eligible for approval under the Building Code's Sec. #324 prescriptive requirements.

Specifically that item is no. five (5) which limits the buildings' maximum width (including roof overhangs) to thirty-six (36) feet. Since the building, as constructed per plan, is forty-two (42) feet in width, that requirement has been exceeded.

Accordingly, we have reviewed the building's wall section design in order to assess its compliance with the general requirements of Section 324 for structural integrity since the width requirement has been exceeded by six (6) feet.

While the code's maximum width requirement has been exceeded; it should be noted that the building's wall section, as constructed, surpasses several other minimum code requirements directly related to the building's structural integrity; specifically:

- 1) The min. wall column size per code is 3 ply 4"x6" nominal ~ actual is 3 ply 6"x6" nominal.
- 2) The maximum wall height per code is 16' ~ actual is +/-13'.
- 3) The min. wall girt requirement per code is 2"x4" @ 24"o/c, max. ~ actual is 2"x6" @ 30"o/c. max
- 4) The min. wall skirt board per code appears to be 2"x6" P.T. ~ actual is 2"x8" P.T.

One code requirement not included in the actual building section is knee bracing as required by sec. 324.6. It is our opinion that the 2"x6"x45deg knee bracing (if not now in place) should be provided at all possible column/truss locations as per the requirements of Tables 324.6 and 324.7 of the code.

It is therefore my opinion that the building, as constructed, and when provided with the required column/truss knee bracing, would be in substantial compliance with the minimum structural requirements for this type of construction as per Sec. 324 of the Ohio Residential Code.

I trust this information sufficiently addresses your questions and concerns and that final approval of this construction can be given by your office once the addition of the required knee bracing has be verified. Should you have any other questions or concerns please call or fax me at the number noted above.

Respectfully.

Richard F. Bertz, P.E., P.S. Ohio Reg. Engineer #E-48039

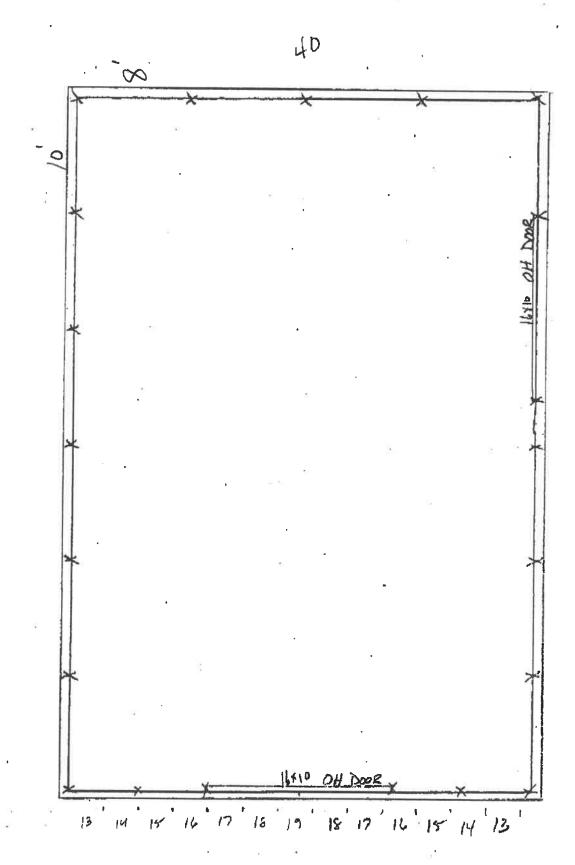
Attachments: Holgate Lumber plan & section

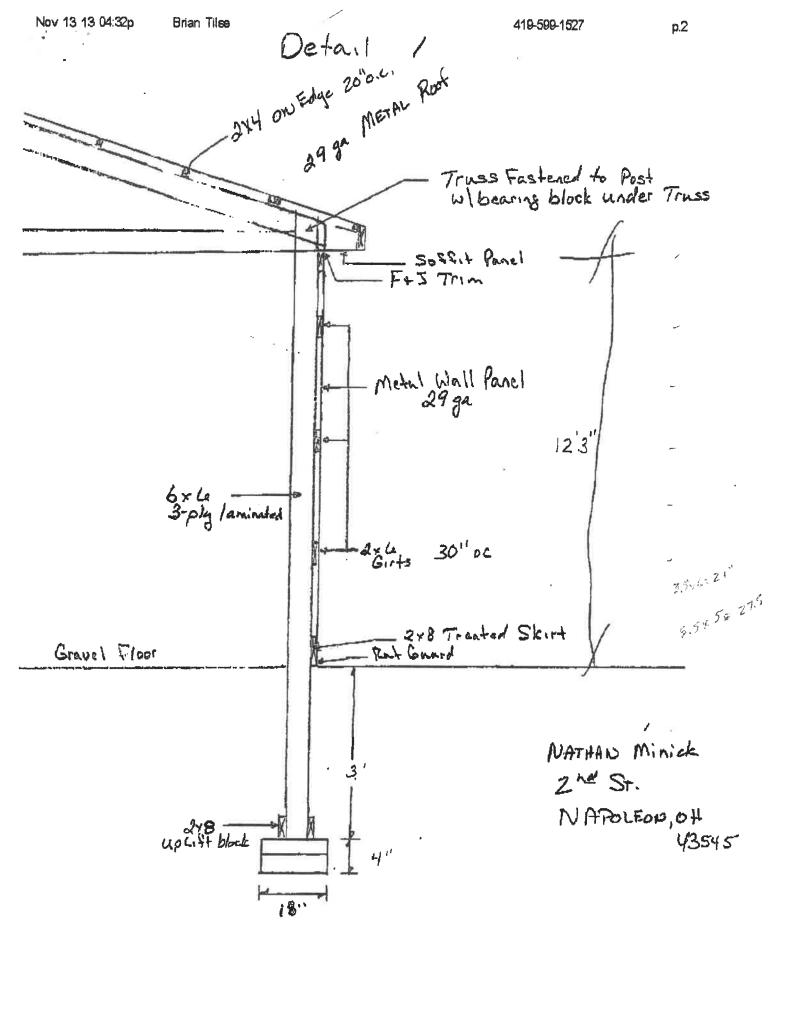
Certified roof truss specification

cc: Holgate Lumber Co.

RFB/rds

P





## DANSCO ENGINEERING, LLC

P.O. Box 3400 Apollo Beach, FL 33572 Telephone (813) 645-0166 Facsimile (813) 645-9698

The truss drawing(s) listed below have been prepared by Stark Truss Inc. under my direct supervision based on the parameters provided by the truss designers.

Job: 1307057-05T

1 truss design(s)



12/19/13

Samuel A. Greenberg, P.E. Ohio Reg. #59715 COA 02356

Note: Gable end frames with stud lengths exceeding 4' require permanent bracing. On structural gables, where studs may be made from two or more boards as they cross diagonals, the 4' length is the distance from the top chord to bottom chord.

The seal on these drawings indicate acceptance of professional engineering responsibility solely for the truss components shown. The suitability and use of this component for any particular building is the responsibility of the building designer, per ANSI/TPI 1-2007 Chapter 2. Further, the attached truss designs comply with the letter and intent of the 2013 Ohio Residential Building Code (ORBC).

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

These designs are based only upon parameters shown, and are for individual building components to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer – not truss designer or truss engineer. 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 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	Ply HOLGATE 1307057-05T (KDM)		
1307057-05T Stark Truss Inc., Cantor	A	FINK	7	Job Reference (optional)	#31857-W1	
State Huss Inc., Califor, On	10-11-0	20-0-0	Run: 7.690 s 42 May 10 2013 Pri ID:NN8vJI?L0CCU4LH 29-1-0	int: 7.420 s May 10 2013 MiTek Industries, Inc. Mon Sep I 1?7DbHPhz12rv-KEsnVWifebSM5VeUJeyEjeOgg'	9 08:12:57 2013 Page 1 W1MfC9bTPLInyyfREc	
	10-11-0	9-1-0	9-1-0	40-0-0 10-11-0		

Scale = 1:70.8

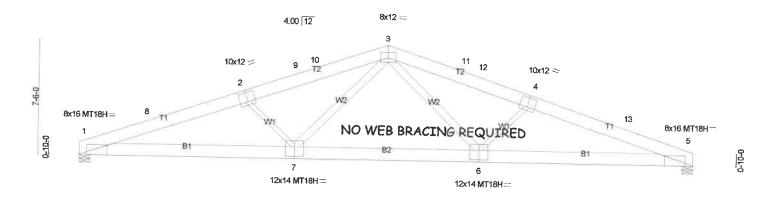


Plate Offsets (X,Y):	14-0-0 14-0-0 [1:0-6-0,Edge], [2:0-6-0,0-7-8], [3:0-6	-0,0-4-4], [4:0-6-0,0-7-8	26-0-0 12-0-0  , [5:0-6-0,Edge], [6:0-7-0,0-7	7-8], [7:0-7-0.0-7-8]	40-0-0 14-0-0
LOADING (psf) TCLL 25.0 TCDL 4.0 BCLL 0.0 BCDL 5.0	SPACING 10-0-0 Plates Increase 1.15 Lumber Increase 1.15 Rep Stress Incr NO Code IBC2009/TPI2007	CSI TC 0.93 BC 0.77 WB 0.87 (Matrix)	DEFL in (loc) Vert(LL) -0.56 6-7 Vert(TL) -0.88 6-7 Horz(TL) 0.25 5		PLATES GRIP MT20 197/144 MT18H 197/144 Weight: 368 lb FT = 209
LUMBER TOP CHORD 2x10 \$ BOT CHORD 2x10 \$	SP 2400F 2.0E SP 2400F 2.0E		BRACING TOP CHORD 2-0-0	oc purlins (2-2-5 max.	).

BOT CHORD

Rigid ceiling directly applied or 5-6-15 oc bracing.

BOT CHORD 2x10 SP 2400F 2.0E WEBS 2x4 SP 2400F 2.0E \*Except\*

W2: 2x6 SPF 1650F 1.5E

REACTIONS (lb/size) 1=3853/0-8-8 (min. 0-5-9), 5=3853/0-8-8 (min. 0-5-9)

Max Horz 1=-386(LC 11) Max Uplift1=-2396(LC 12), 5=-2396(LC 13) Max Grav 1=6687(LC 2), 5=6687(LC 2)

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

TOP CHORD 1-8=-15714/5417, 2-8=-15239/5464, 2-9=-13665/4813, 9-10=-13257/4821, 3-10=-13233/4855, 3-11=-13233/4858, 11-12=-13257/4824, 4-12=-13665/4816,

4-13=-15239/5468, 5-13=-15714/5421

**BOT CHORD** 1-7=-5168/14393, 6-7=-2994/10062, 5-6=-4803/14393

WEBS 2-7=-3004/1772, 3-7=-1510/4032, 3-6=-1513/4032, 4-6=-3004/1774

## **NOTES**

NOTES

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

2) Wind: ASCE 7-05; 90mph; TCDL=2.4psf; BCDL=2.0psf; h=25ft; Cat. I; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) 0-4-0 to 4-10-0, Interior(1) 4-10-0 to 20-0-0, Exterior(2) 20-0-0 to 24-8-0 zone; cantilever left and right exposed; c-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 plate grip DOL=1.50 psf (roof live load: Lumber DOL=1.15); Pg=20.0 psf (ground snow); Ps=10.6 psf (roof design snow load has been reduced to account for slope.

4) Roof design snow load has been considered for this design.

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

6) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.

7) Dead loads shown include weight of truss. Top chord dead load of 5.0 psf (or less) is not adequate for a shingle roof. Architect to verify adequacy of top chord dead load.

8) All plates are MT20 plates 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2396 lb uplift at joint 1 and 2396 lb

11) This truss is designed in accordance with the 2009 International Building Code section 2306.1 and referenced standard ANSI/TPI

LOAD CASE(S) Standard



Dansco Engineering, LLC COA 02356 12/19/13

WARNING – VERIFY DESIGN PARAMETERS AND READ NOTES BEFORE FABRICATION AND INSTALLATION!!!

WARNING - VEKITT DESIGN PARAMETERS AND READ NOTES DEFORE PARAMETER engineer. Permanent bracing requirements against out-or-plane buckling are noted/snown for individual truss members (and for the truss as a whole) subjected to gravity and wind loads.

Additional permanent bracing design shall be the responsibility of the design professional of record. Temporary and erection bracing shall be the responsibility of the contractor.

Reference ANSI/TPI-1, "National Design Standard for Metal Plate Connected Wood Truss Construction" and TPI/WTCA BCSI-06, "Building Component Safety Information Guide to Good Practice for Handling, Installing, Restraining and Bracing of Metal Plate Connected Wood Trusses" for additional information.