Updated Workshop Plan

Timothy Sain
239 Lasater Rd.
Bunnlevel NC 28323



Building Size: 16' x 32' Total Sq. Ft. 512 Sq.Ft. Wall Height: 8' 4 ½" Overall Height: 12'7" Roof Style: Gable Roof Pitch: 5.5/12

Garage Door: 9'x7' Wind Speed: < 120 mph

Side Door: 36" x 80"

Side windows (2): 24" x 36"

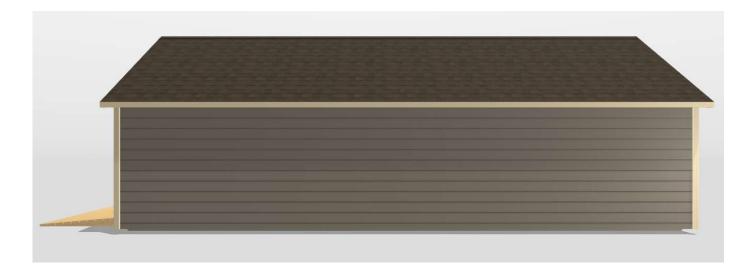
Framing: 2"x4" 16" OC

Foundation: Concrete Slab 6" above grade

Front Elevation



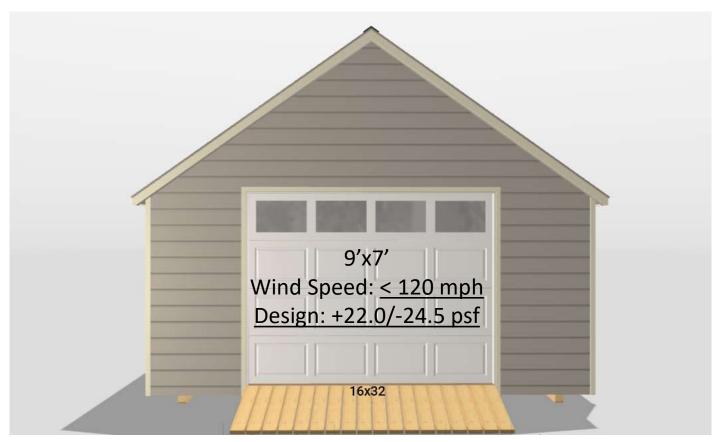
Rear Elevation



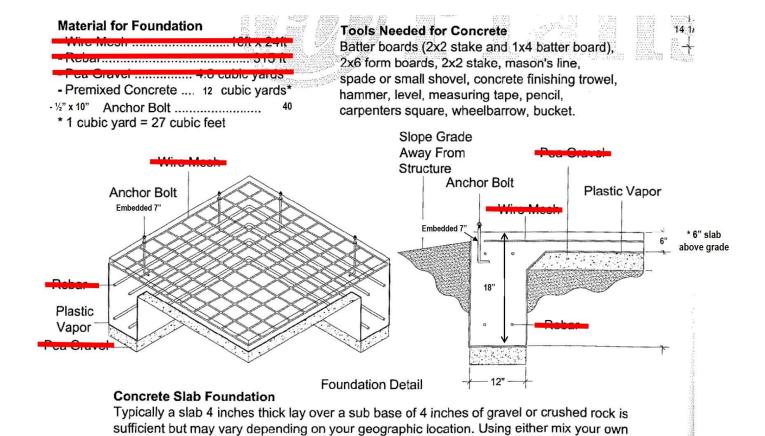
Back Wall



Garage Wall

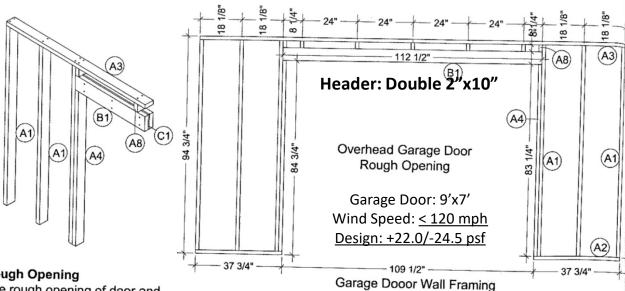


Foundation



concrete of having it delivered by truck, ready to pour, depends on how much time and

effort you have to dedicate to the project.



92 1/2"

Rough Opening

The rough opening of door and window should be \(\frac{1}{2} \)" to \(\frac{3}{4} \)" larger than actual sizes (consult the manufacturer's instruction sheet for the recommended gap before frame the wall). This extra space lets you wedge in shims to adjust the unit for level and plumb.

Most of garage door rough opening is the same size as actual size. Add 3/4" spaces for trimmers.

Wall Frame Cutting List

Code	Descriptions	Dimension	Qty
A1	Stud	913/4"	41
A2	373/4" Plate	37¾"	2
A3	92½" Plate	92½"	6
A4	831/4" Door Stud	831/4"	2
A5	144" Plate	144"	8
A6	81" Door Stud	81"	2
A7	381/2" Win. Stud	38½"	2
A8	3" Jack Stud	3"	7
A9	51/4" Jack Stud	51/4"	4
A10	41" Jack Stud	41"	1
B1	112½" Header	1121/2"	2
B2	33½" Header	33½"	2
B3	31½" Header	31½"	2
C1	112½" Spacer	5½"x112½"	1
C2	33½" Spacer	5½ x 33½"	1
СЗ	31½" Spacer	5½ x 31½"	1

92 1/2"

(A3)

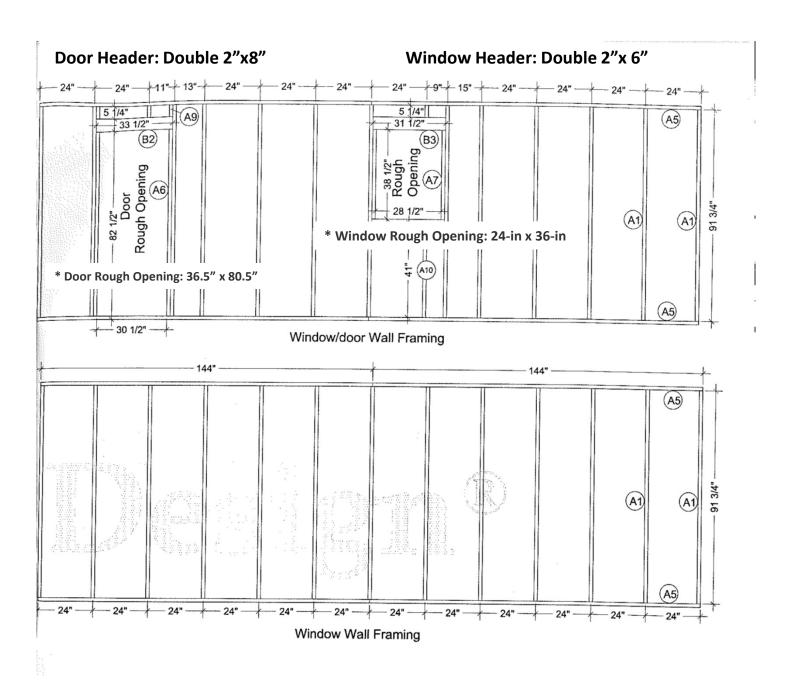
Back Wall Framing

Build The Wall

20 1/2"

- 1. On bottom plats (A2), (A3) & (A5) mark the center of anchor locations, drill \emptyset_8 " through holes. Test- fit bottom plats making sure all anchor bolts are into the plat holes. The plat are flush to the outside of the concrete edges.
- 2. Garage door wall framing: Layout plats (A2) & (A3) and studs (A1) as shown.
- 3. Using 3" 10d nails, nail twice through each (A2) & (A3) into each end of each (A1), keeping pieces flush at top and ends, and maintain dimension spacing as shown.
- 4. Then layout the garage door rough opening, door studs (A4), jack studs (A8) and door double headers (B1) with plywood spacer (C1).
- 5. Using 3" 10d nails, nail twice through each of them into each end.
- 6. Repeat steps 2-6, build remaining wall framing according to the diagram.

Common: 36-in x 80-in



Wall Bracing: CWP

Job	Truss	Truss Type	Qty	Ply	Tim Sain / Harnett Co.
B0320-1097	A1	COMMON	15	1	
					Job Reference (optional)
Comtech, Inc., Fayetteville,	NC 28309, Dwayne Naylor				lar 22 2019 MiTek Industries, Inc. Tue Mar 10 16:47:34 2020 Page 1
			ID:L31KcBaX6	00QVGAy	h2lyQLzccNu-w2g1qKepZ1ZYDEX_qPfPu?pY1iB5XDwTTacgOfzcl2N
_c 0-10-8		8-0-0			16-0-0 16-10-8
0-10-8		8-0-0			8-0-0 0-10-8

Scale = 1:29.3

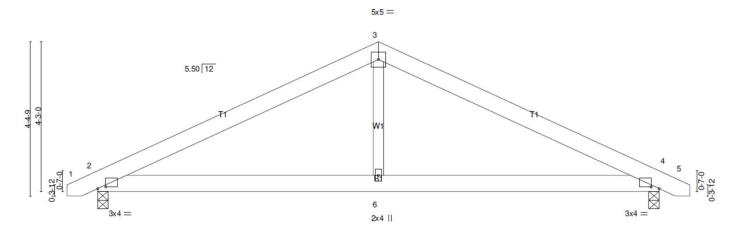


Plate Offsets (X,Y)	8-0-0 [2:0-2-11,0-0-9], [4:0-2-11,0-0-9]		<u>'</u>	8-0-0	· · · · · · · · · · · · · · · · · · ·
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.29 BC 0.24 WB 0.09 Matrix-S	DEFL. in Vert(LL) -0.02 Vert(CT) -0.06 Horz(CT) 0.01 Wind(LL) 0.02	(loc) /defl L/d 2-6 >999 360 4-6 >999 240 4 n/a n/a 2-6 >999 240	PLATES GRIP MT20 244/190 Weight: 88 lb FT = 20%

LUMBER-

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

BRACING-

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 6-0-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

16-0-0

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

(size) 2=0-3-8 (min. 0-1-8), 4=0-3-8 (min. 0-1-8) Max Horz 2=-48(LC 17) Max Uplift2=-50(LC 12), 4=-50(LC 13) Max Grav 2=677(LC 1), 4=677(LC 1) REACTIONS.

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-3=-934/250, 3-4=-934/247 BOT CHORD 2-6=-104/755, 4-6=-104/755

3-6=0/380

NOTES-

Unbalanced roof live loads have been considered for this design.

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-0 to 3-8-13, Interior(1) 3-8-13 to 8-0-0, Exterior(2) 8-0-0 to 12-4-13, Interior(1) 12-4-13 to 16-8-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) *This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the

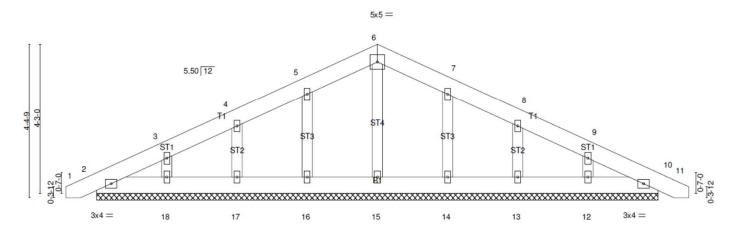
8-0-0

- bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 50 lb uplift at joint 2 and 50 lb uplift at joint 4.
 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Tim Sain / Harnett Co.	
B0320-1097	A1GE	COMMON SUPPORTED GAB	2	1	Contractor St. 200000 on Contractor and Contractor Contractor	
					Job Reference (optional)	
Comtech, Inc., Fayetteville,	NC 28309, Dwayne Naylor	Run: 8.300 s Mar 22 :	2019 Print:	8.300 s M	lar 22 2019 MiTek Industries, Inc. Tue Mar 10 16:47:35 2020 Pag	e 1
		ID:L31K	cBaX600Q	VGAyh2ly	QLzccNu-PEEP1gfRJKhPrO6AO7AeRCMnx6ZwGh?chEMDw6zd	12M
_c 0-10-8	8	3-10-8			16-10-8	
0-10-8 0-10-8		8-0-0			8-0-0 0-10-8	

Scale = 1:29.3



0-10-8 0-10-8		16-10- 16-0-0	_			17-9-0 0-10-8
LOADING (psf) TCLL 20.0 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 IRC2015/TPI2014	CSI. TC 0.03 Vert(BC 0.01 Vert(WB 0.03 Horz Matrix-S	(LL) 0.00 10 (CT) 0.00 10	lefl L/d n/r 120 n/r 120 n/a n/a	PLATES MT20 Weight: 102 lb	GRIP 244/190 FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1 BOT CHORD 2x6 SP No.1 **OTHERS** 2x4 SP No.2 **BRACING-**TOP CHORD **BOT CHORD**

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS.

ONS. All bearings 16-0-0.
(lb) - Max Horz 2=-80(LC 17)

Max Uplift All uplift 100 lb or less at joint(s) 2, 10, 16, 17, 18, 14, 13, 12 Max Grav All reactions 250 lb or less at joint(s) 2, 10, 15, 16, 17, 18, 14, 13, 12

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

NOTES-

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

- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-8-0 to 4-0-0, Exterior(2) 4-0-0 to 8-0-0, Corner(3) 8-0-0 to 12-4-13, Exterior(2) 12-4-13 to 16-8-0 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.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 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, 10, 16, 17, 18, 14, 13, 12.
- 10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

16' 0" A1GE 2' 0" A1 Ņ ģ A1 2" 0" A1 2 9 2' 0" A1 A1 2 9 A1 2' 0" A1 Ŋ 32' 0" ٩ 32' 0" A1 N 9 N Q A1 Ŋ o A1 'n 9 A1 Ŋ ò A1 Ņ o. A1 Ŋ 9 A1 A1GE 16' 0"

Bearing reactions less than or equal to 3000# are deemed to comply with the prescriptive Code requirements. The contractor shall refer to the attached Tables (derived from the prescriptive Code requirements) to determine the minimum foundation size and number of wood studs required to support reactions greater than 3000# but not greater than 1500#. A registered design professional shall be retained to design the support system for any reaction that exceeds those specified in the attached Tables. A registered design professional shall be retained to design the support system for all reactions that exceed 15000#.

Dwayne Naylor

TRUSS PLACEMENT PLAN SCALE: 3/16" = 1'-0"

THIS IS A TRUBS PLACEMENT DUGGRAM ONLY.

These trusses are designed as inchedual building components to be incorporated into the building design at the specification of the building designs. See individual design sheath for each truss design identified on the piscenteed drawing. The building designs in responsible for temporary and parameter through of the root and thost system and for the evental structure. The design of the truss support structure including headers, bearen, walks, and columns is the responsibility of the building designer. For general guidance reparting brains, contrast BCS-831 and BCS-833 provided with the truss delivery package or ordina (§) stochnidually.com

BUILDER

JOB NAME

SEAL DATE

QUOTE #

JOB#

PLAN

Cash Tim Sain

16x32 bldg.

Seal Date

80320-1097

Tim Sain / Harnett Ca.

CITY / CO.

ADDRESS

MODEL

DATE REV

DRAWN BY

SALES REP

Harnett Co. / Harnett

16x32 Bldg.

03/10/20

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Fac: [910] 854-9444	Phone: [910] 864 8787	Engelleville, N.C. 28300	Heilly Road Industrial Park	TRUSSES & BEAMS
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