By Grisez Bros.
7300 WHIPPLE AVE., N.W.
NORTH CANTON, OHIO 44720

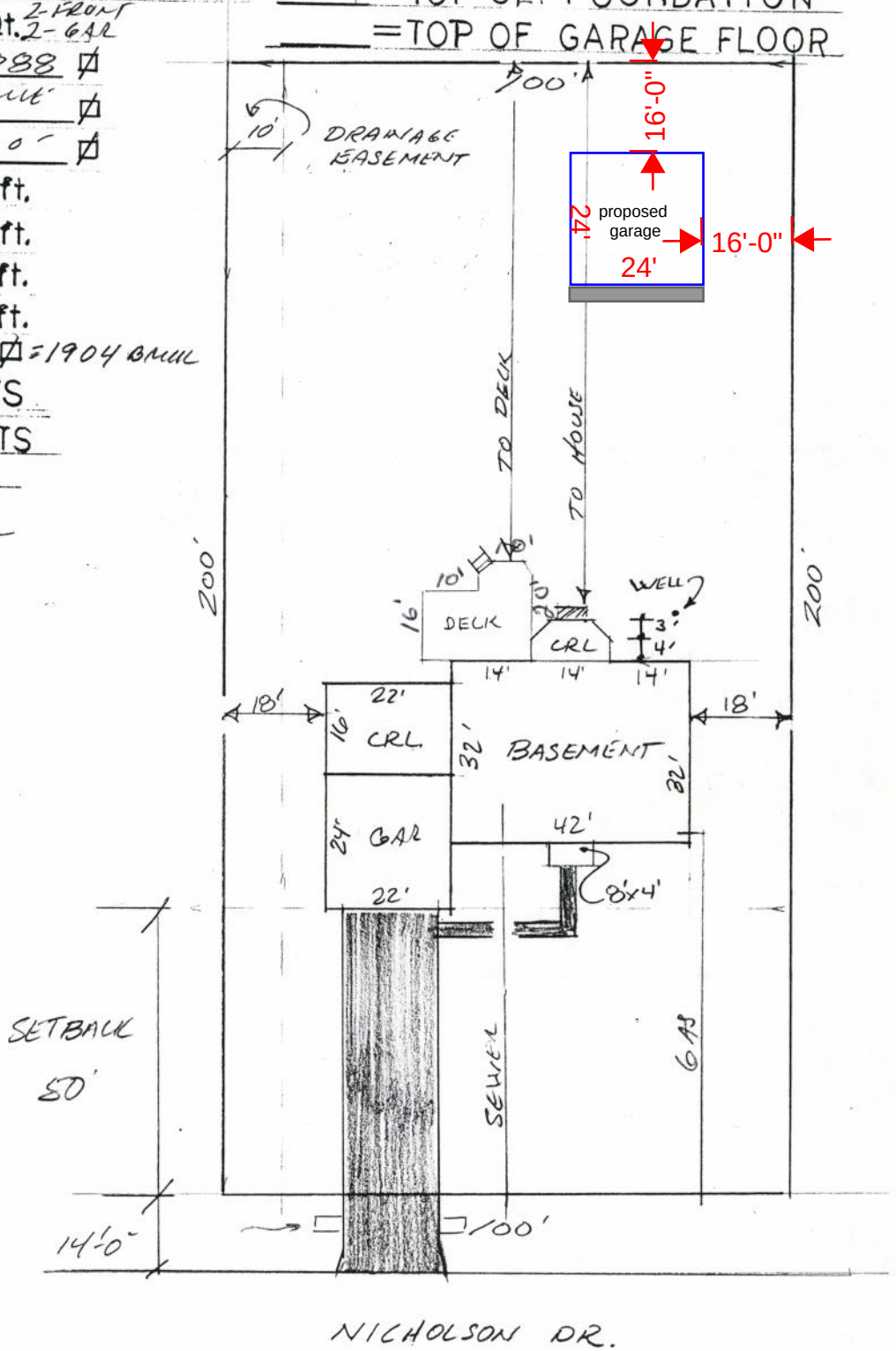
PLOT PLAN

SUBDIVISION Woods of Williamsburg ADDRESS 6140 NICHOLSON DR. HUDSON O.
DATE 6-24-91 SCALE 1"=30' TOWNSHIP HUDSON JOB H-103
PLAN SERIES 534 PLAN NAME Southwick

☐=PROPOSED ELEVATION ( )=PROPOSED ELEVATION AT FOUNDATION
~~→=DIRECTION OF SURFACE FLOW ____=TOP OF FOUNDATION
____=TOP OF GARAGE FLOOR

CONCRETE STEPS 4 Qt. 2-FRONT 2-GAR
DRIVE-17 x 64 = 1088 ☑
APPROACH-___ x w/DRIVE =___ ☑
CITY WALK-___ X ___ = - 0 - ☑
SEWER- STD. ft.
WATER - WELL SYSTEM ft.
GAS - STD ft.
ELECTRIC- STD ft.
BRICK BAND-220' @ 16" = 293 ☑ = 1904 BRICK
TREE REMOVAL- 3 UNITS
DIRT-IN-OR-OUT 2 UNITS
FILL SAND 1 UNITS

NOTE 12° BASEMENT



Design Name: Garage Design
Design ID: 334755381467
Estimate ID: 28185

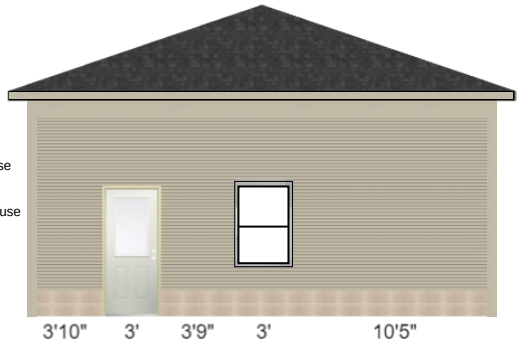
MENARDS Design&Buy GARAGE

Dimensions

Wall Configurations

*Illustration may not depict all options selected.

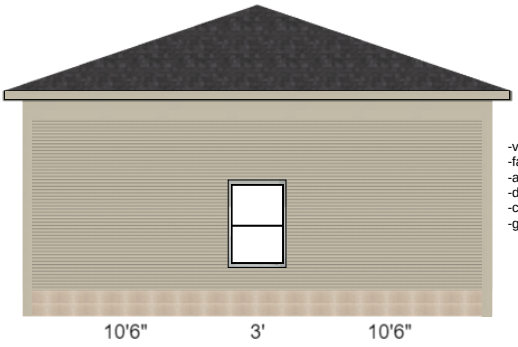
-vinyl siding
-fascia board to match house
-architectural shingles
-double hung windows
-corner boards to match house
-gutters



ENDWALL B

Mastercraft® Steel Half-Lite Prehung Exterior Door

JELD-WEN® 36"W x 54"H Good Series Vinyl Single Hung Window with Nailing Flange



-vinyl siding
-fascia board to match house
-architectural shingles
-double hung windows
-corner boards to match house
-gutters

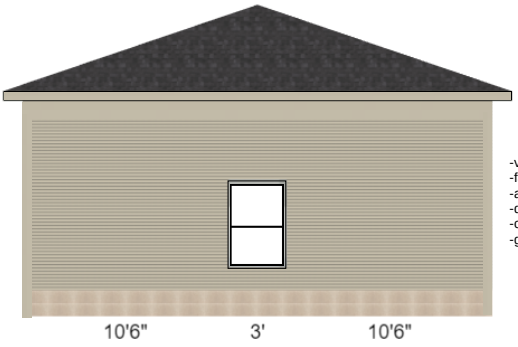
SIDEWALL D

JELD-WEN® 36"W x 54"H Good Series Vinyl Single Hung Window with Nailing Flange

-vinyl siding
-fascia board to match house
-architectural shingles
-double hung windows
-corner boards to match house
-gutters

SIDEWALL C

Ideal Door® Designer 16' x 8' White Insulated Garage Door



-vinyl siding
-fascia board to match house
-architectural shingles
-double hung windows
-corner boards to match house
-gutters

ENDWALL A

JELD-WEN® 36"W x 54"H Good Series Vinyl Single Hung Window with Nailing Flange

Design Name: Garage Design
Design ID: 334755381467
Estimate ID: 28185

MENARDS Design&Buy GARAGE

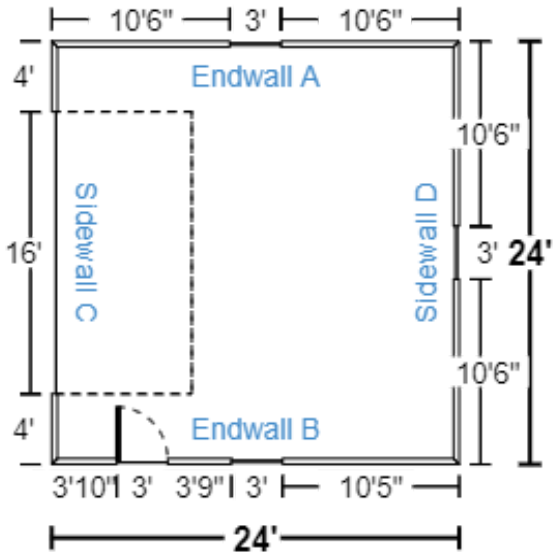
How to purchase at the store

1. Take this packet to any Menards store.
2. Have a building materials team member enter the design number into the Garage Estimator Search Saved Designs page.
3. Apply the design to System V to create the material list.
4. Take the purchase documents to the register and pay.

How to recall and purchase a saved design at home

1. Go to Menards.com.
2. Select the Garage Estimator from the Project Center.
3. Select Search Saved Design.
4. Log into your account.
5. Select the saved design to load back into the estimator.
6. Add your garage to the cart and purchase.

Garage Image



Estimated Price: $11,477.90

* Today's estimated price, future pricing may go up or down. Tax, labor, and delivery not included.

Floor type (concrete, dirt, gravel) is NOT included in estimated price. The floor type is used in the calculation of materials needed. Labor, foundation, steel beams, paint, electrical, heating, plumbing, and delivery are also NOT included in estimated price. This is an estimate. It is only for general price information. This is not an offer and there can be no legally binding contract between the parties based on this estimate. The prices stated herein are subject to change depending upon the market conditions. The prices stated on this estimate are not firm for any time period unless specifically written otherwise on this form. The availability of materials is subject to inventory conditions.

MENARDS IS NOT RESPONSIBLE FOR ANY LOSS INCURRED BY THE GUEST WHO RELIES ON PRICES SET FORTH HEREIN OR ON THE AVAILABILITY OF ANY MATERIALS STATED HEREIN. All information on this form, other than price, has been provided by the guest and Menards is not responsible for any errors in the information on this estimate, including but not limited to quantity, dimension and quality. Please examine this estimate carefully.

MENARDS MAKES NO REPRESENTATIONS, ORAL, WRITTEN OR OTHERWISE THAT THE MATERIALS LISTED ARE SUITABLE FOR ANY PURPOSE BEING CONSIDERED BY THE GUEST. BECAUSE OF WIDE VARIATIONS IN CODES, THERE ARE NO REPRESENTATIONS THAT THE MATERIALS LISTED HEREIN MEET YOUR CODE REQUIREMENTS. THE PLANS AND/OR DESIGNS PROVIDED ARE NOT ENGINEERED. LOCAL CODE OR ZONING REGULATIONS MAY REQUIRE SUCH STRUCTURES TO BE PROFESSIONALLY ENGINEERED AND CERTIFIED PRIOR TO CONSTRUCTION.

Design ID: 334755381467
Estimate ID: 27282

MENARDS Design&Buy™ GARAGE

Materials

Building Info

Building Width:	24'
Building Length:	24'
Building Height:	10'
Wall Framing Stud:	2" x 4"
Roof Framing:	Truss Construction
Truss Type:	Hip Garage
Roof Pitch:	4/12 Pitch
Eave Overhang:	1'
Concrete Block Option:	2 Rows
Block Type:	8" Standard Concrete Construction Block
Anchor bolt:	Grip Fast 1/2" x 10" HDG Anchor Bolt w/ Nut & Washer

Wall Info

Siding Material Types:	Vinyl
Vinyl Siding:	MainStreet™ Double 4" Vinyl Siding - Desert Tan
Wall Sheathing:	1/2" OSB (Oriented Strand Board)
House Wrap:	Kimberly-Clark BLOCK-IT®9'x75'House Wrap
Gable Vents:	None

Design ID: 334755381467
Estimate ID: 27282

MENARDS Design&Buy GARAGE

Roof Info

Roof Sheathing:	5/8" OSB (Oriented Strand Board)
Roofing Material Type:	Architectural Shingle
Architectural Roofing:	Owens Corning® TruDefinition® Duration® Limited Lifetime Warranty Architectural Shingles (32.8 sq. ft.) - Onyx Black
Roof Underlayment:	#15 Felt Roofing Underlayment 3' x 144' (432 sq. ft.)
Ice and Water Barrier:	Owens Corning® WeatherLock® G Granulated Self-Sealing Ice and Water Barrier 3' x 66.7' (200 sq. ft.)
Fascia material Type:	Aluminum Fascia
Fascia:	6" x 12' Aluminum Rustic Fascia - Sandstone
Soffit material Type:	Aluminum Soffit
Soffit:	16" x 12' Aluminum Vented Soffit - Sandstone
Gutter material Type:	Aluminum
Gutter:	Spectra Metals 5" x 10' K-Style Aluminum Gutter - Clay
Ridge Vent:	Mongoose 11-1/2" x 20' Shingle Over Ridge Vent With Coil Roofing Nails
Roof Vents:	None

Openings

Entry Door:	Mastercraft® Steel Half-Lite Prehung Exterior Door
Windows:	JELD-WEN® 32"W x 38"H Good Series Vinyl Single Hung Window with Nailing Flange
Windows:	JELD-WEN® 32"W x 38"H Good Series Vinyl Single Hung Window with Nailing Flange
Windows:	JELD-WEN® 32"W x 38"H Good Series Vinyl Single Hung Window with Nailing Flange
Garage Door Opener:	Chamberlain® 1/2 HP Chain Drive Garage Door Opener (Better)
Overhead Door:	Ideal Door® Designer 16' x 8' White Insulated Garage Door
Overhead Door Trim Type:	Vinyl
Vinyl Trim Color:	White

Additional Options

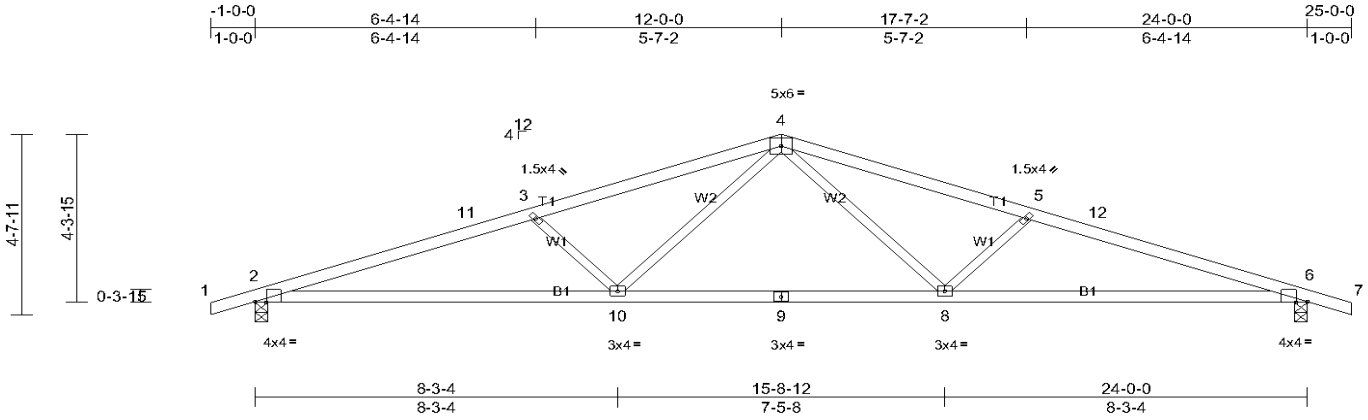
Ceiling Insulation:	None
Wall Insulation:	Guardian R-13 Kraft-Faced Fiberglass Insulation 3.625" x 15" x 32' - 40 sq ft
Ceiling Finish:	None
Wall Finish:	None

Design ID: 334755381467
Estimate ID: 27282

MENARDS® Design&Buy™ GARAGE

Job	Truss	Truss Type	Qty	Ply	
QTREC0621242	T265	COMMON	1	1	Job Reference (optional)

Midwest Manufacturing, Eau Claire, WI — Run: 8.32 S Nov 19 2019 Print: 8.320 S Nov 19 2019 MiTek Industries, Inc. Tue Feb 25 12:48:47 — Page: 1
ID:ebz9h7EsJtCNbO6ER6daNtymDE_-Bj6cH_u46wN99xnyM2OOzLJC9xTdWZ6FD6vriFzhbHk



Scale = 1:47.7

Plate Offsets (X, Y): [2:0-3-2,Edge], [6:0-3-2,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.56	Vert(LL)	-0.15	2-10	>999	240	MT20	197/144
Snow (Ps/Pg)	24.3/35.0	Lumber DOL	1.15	BC	0.81	Vert(CT)	-0.31	2-10	>921	180		
TCDL	7.0	Rep Stress Incr	YES	WB	0.47	Horz(CT)	0.08	6	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-R								
BCDL	10.0										Weight: 72 lb	FT = 15%

LUMBER
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF Stud

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-0-8 oc purlins.
BOT CHORD 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 (lb/size) 2=1050/0-3-8, (min. 0-1-12), 6=1050/0-3-8, (min. 0-1-12)
Max Horiz 2=-54 (LC 15)
Max Uplift 2=-103 (LC 10), 6=-103 (LC 11)
Max Grav 2=1099 (LC 21), 6=1099 (LC 22)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-11=-2491/155, 3-11=-2371/171, 3-4=-2127/127, 4-5=-2127/127, 5-12=-2371/171, 6-12=-2491/156
BOT CHORD 2-10=-154/2305, 9-10=-45/1486, 8-9=-45/1486, 6-8=-110/2305
WEBS 3-10=-547/147, 4-10=-21/775, 4-8=-21/775, 5-8=-547/147

JOINT STRESS INDEX
2 = 0.83, 3 = 0.51, 4 = 0.74, 5 = 0.51, 6 = 0.83, 8 = 0.73, 9 = 0.73 and 10 = 0.73

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=35.0 psf; Ps=24.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
4) Roof design snow load has been reduced to account for slope.
5) Unbalanced snow loads have been considered for this design.
6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 24.3 psf on overhangs non-concurrent with other live loads.
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 where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 103 lb uplift at joint 2 and 103 lb uplift at joint 6.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

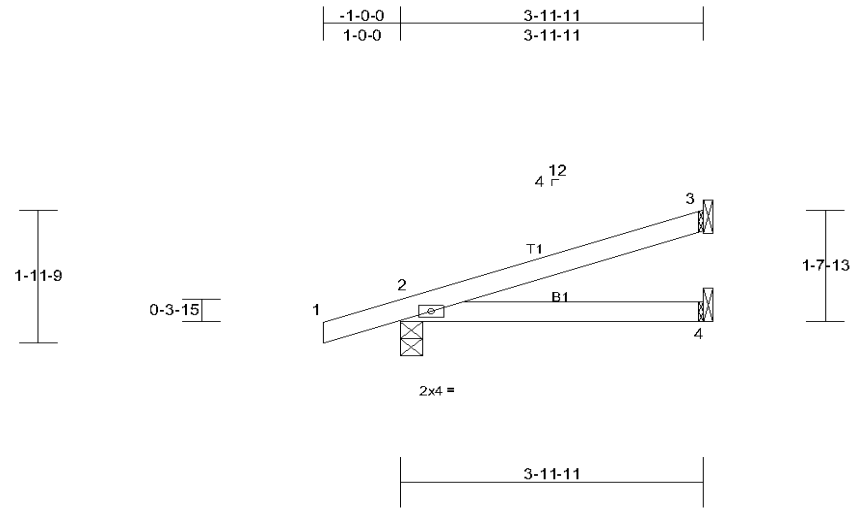
LOAD CASE(S) Standard

Design ID: 334755381467
Estimate ID: 27282

MENARDS® Design&Buy™ GARAGE

Job	Truss	Truss Type	Qty	Ply	
QTREC0620032	CJ2	Jack-Open	8	1	Job Reference (optional)

Midwest Manufacturing, Eau Claire, WI — Run: 8.32 S Nov 19 2019 Print: 8.320 S Nov 19 2019 MiTek Industries, Inc. Fri Jun 26 16:41:11 Page: 1
ID:ElDcd4LaySs9BF2KTw1g0dzmBg6-BOOypgnQs22o3kPbsoPJv62BYHWyLtRI?JfkMJz2M26



Scale = 1:27.4

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.26	Vert(LL)	-0.01	2-4	>999	240	MT20	197/144
Snow (Ps/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	-0.02	2-4	>999	180		
TCDL	7.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	n/a	-	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 11 lb	FT = 15%

LUMBER
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2

REACTIONS (lb/size) 2=216/0-3-8, (min. 0-1-8), 3=95/ Mechanical, (min. 0-1-8), 4=38/ Mechanical, (min. 0-1-8)
Max Horiz 2=50 (LC 10)
Max Uplift 2=-49 (LC 10), 3=-42 (LC 14)
Max Grav 2=311 (LC 21), 3=146 (LC 21), 4=75 (LC 7)

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

JOINT STRESS INDEX
2 = 0.32

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-11-11 oc purlins.
BOT CHORD 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.

NOTES
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left and right 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); Pg=30.0 psf; Ps=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
3) Roof design snow load has been reduced to account for slope.
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.8 psf on overhangs non-concurrent with other live loads.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 42 lb uplift at joint 3 and 49 lb uplift at joint 2.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Design ID: 334755381467
Estimate ID: 27282

MENARDS® Design&Buy™ GARAGE

Job	Truss	Truss Type	Qty	Ply	
QTREC0620032	HG1	Hip Girder	2	1	Job Reference (optional)

Midwest Manufacturing, Eau Claire, WI — Run: 8.32 S Nov 19 2019 Print: 8.320 S Nov 19 2019 MiTek Industries, Inc. Fri Jun 26 16:41:12 Page: 1
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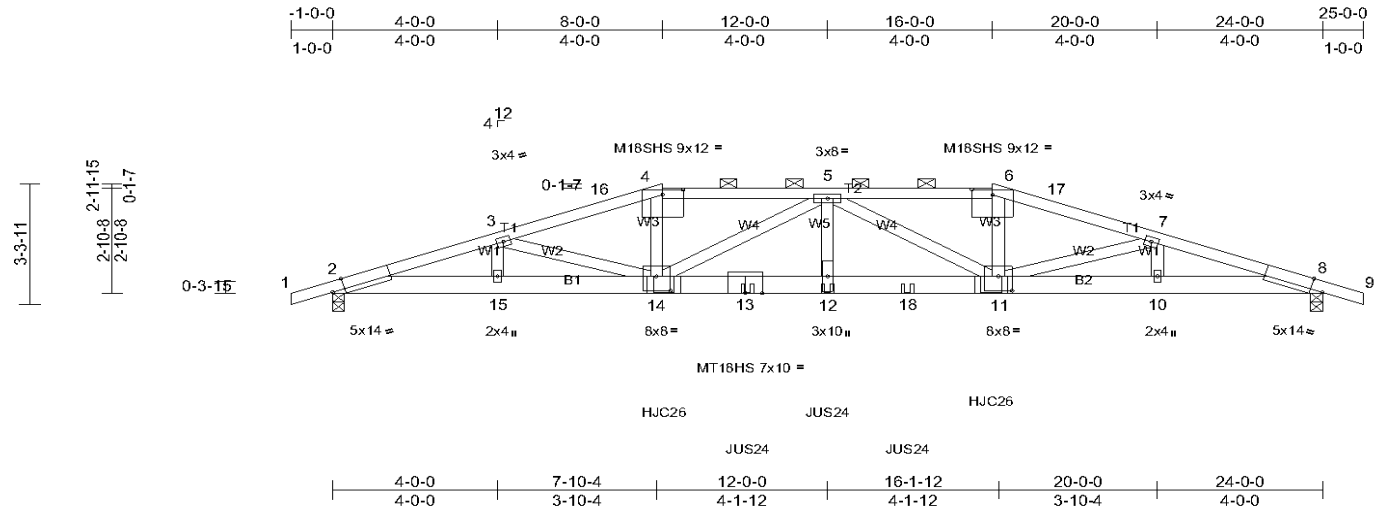

Scale = 1:50.7

Plate Offsets (X, Y): [2:0-3-11,Edge], [4:0-6-0,0-1-11], [6:0-6-0,0-1-11], [8:0-3-11,Edge], [11:0-4-0,0-4-12], [14:0-4-0,0-4-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.97	Vert(LL)	-0.46	12-14	>620	240	M18SHS	197/144
Snow (Ps/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.71	Vert(CT)	-0.69	12	>411	180	MT20	197/144
TCDL	7.0	Rep Stress Incr	NO	WB	0.93	Horz(CT)	0.13	8	n/a	n/a	MT18HS	244/190
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-R								
BCDL	10.0										Weight: 115 lb	FT = 15%

LUMBER
TOP CHORD 2x4 SPF 1650F 1.5E *Except* T2:2x4 SPF 2100F 1.8E
BOT CHORD 2x6 SP 2400F 2.0E
WEBS 2x4 SPF Stud

REACTIONS (lb/size) 2=2701/0-3-8, (min. 0-2-7), 8=2699/0-3-8, (min. 0-2-7)
Max Horiz 2=37 (LC 60)
Max Uplift 2=-348 (LC 8), 8=-347 (LC 9)
Max Grav 2=2912 (LC 37), 8=2910 (LC 37)

BRACING
TOP CHORD Structural wood sheathing directly applied or 1-5-5 oc purlins, except
2-0-0 oc purlins (2-5-1 max.): 4-6.
BOT CHORD 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.

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-7727/872, 3-16=-7825/920, 4-16=-7787/925, 4-5=-7318/884, 5-6=-7311/883, 6-17=-7780/924, 7-17=-7818/919, 7-8=-7721/872
BOT CHORD 2-15=-821/7275, 14-15=-821/7275, 13-14=-935/8377, 12-13=-935/8377, 12-18=-935/8377, 11-18=-935/8377, 10-11=-789/7270, 8-10=-789/7270
WEBS 3-15=-255/95, 3-14=-403/456, 4-14=-212/2172, 5-14=-1385/176, 5-12=-58/872, 5-11=-1393/176, 6-11=-212/2170, 7-11=-404/454, 7-10=-254/94

JOINT STRESS INDEX
2 = 0.92, 3 = 0.62, 4 = 0.90, 5 = 0.73, 6 = 0.90, 7 = 0.62, 8 = 0.92, 10 = 0.38, 11 = 0.58, 12 = 0.33, 13 = 0.71, 14 = 0.58 and 15 = 0.38

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) ** TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Ps= varies (20.8 psf Lum DOL=1.15 Plate DOL=1.15) see load cases; Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
4) Roof design snow load has been reduced to account for slope.
5) Unbalanced snow loads have been considered for this design.
6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.8 psf on overhangs non-concurrent with other live loads.
7) Provide adequate drainage to prevent water ponding.
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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 348 lb uplift at joint 2 and 347 lb uplift at joint 8.
12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
14) Use USP HJC26 (With 16-16d nails into Girder & 10d nails into Truss) or equivalent spaced at 7-11-4 oc max. starting at 8-0-6 from the left end to 15-11-10 to connect truss (es) EJ1 (1 ply 2x4 SPF), CG1 (1 ply 2x4 SPF), EJ1 (1 ply 2x4 SPF), CG1 (1 ply 2x4 SPF) to front face of bottom chord.

Continued on page 2


Project Area


6140
REPUBLIC