

Date: 7/17/2022 - 2:33 PM

Design ID: 330854489138

Estimate ID: 89771

Estimated Price: \$9,427.82

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



Materials

Building Info

Building Location Zip Code:	48206
Building Width:	20'
Building Length:	20'
Building Height:	12'
Curb:	Poured Curb
Curb Height:	4"
Wall Framing Stud:	2" x 6"
Roof Framing:	Truss Construction
Truss Type:	Common
Roof Pitch:	4/12 Pitch
Eave Overhang:	24"
Gable Overhang:	24"
Custom Garage Plan:	No I do not need a custom building plan

Wall Info

Siding Material Types:	Vinyl
Vinyl Siding:	ABTCO® Harbor Ridge Double 4" - Tan
Accent Material Type:	Vinyl
Vinyl Accent:	Cedar Impressions® Double 7" Staggered Perfection Shingles - Heritage Cream
Endwall A Accent:	yes add gable accent
Endwall B Accent:	yes add gable accent
Wainscot Material Type:	None
Wall Sheathing:	7/16" OSB (Oriented Strand Board)
House Wrap:	Kimberly-Clark BLOCK-IT®9'x75'House Wrap
Gable Vents:	Novik® 12" x 18"Rectangular Gable Vent - White

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Roof Info

Roof Sheathing:	1/2" OSB (Oriented Strand Board)
Roofing Material Type:	Hidden Fastener Steel Panel
Hidden Fastener Steel Roofing:	Premium Pro-Snap® Steel Panel - Light Stone
SnowBar Trim:	None
Roof Underlayment:	#30 Felt Roofing Underlayment 3' x 72' (216 sq. ft.)
Ice and Water Barrier:	Hydraguard Dual Pro High Temperature Ice & Water Barrier 39-3/8" x 61' (200 sq. ft.)
Fascia Material Type:	Steel Fascia
Fascia:	12' Steel L-6 Fascia - White
Soffit Material Type:	Steel Soffit
Soffit:	Steel Vented Soffit Panel - White
Gutter Material Type:	Vinyl
Gutter:	KP K-Snap® 4-1/2" x 10' Gutter

Openings

Open end:	Open End
Service Door:	Mastercraft® 36"W x 80"H Primed Steel 6-Panel

Additional Options

Ceiling Insulation:	None
Wall Insulation:	None
Ceiling Finish:	None
Wall Finish:	None
Anchor bolt:	Grip Fast® 1/2" x 10" HDG Anchor Bolt w/ Nut & Washer
Framing Fasteners:	Grip Fast® 3-1/2" 16D Vinyl-Coated Smooth Shank Sinker Nail - 5 lb. Box
Sheathing Fasteners:	Grip Fast® 2-1/2" 8D Vinyl-Coated Smooth Shank Sinker Nails
Truss Fastener:	FastenMaster® TimberLOK® 5/16" x 6" Hex Drive Black Hex Head Wood Screw - 50 Count

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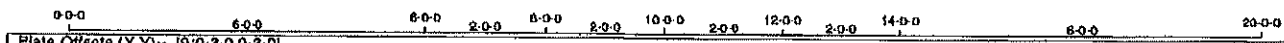
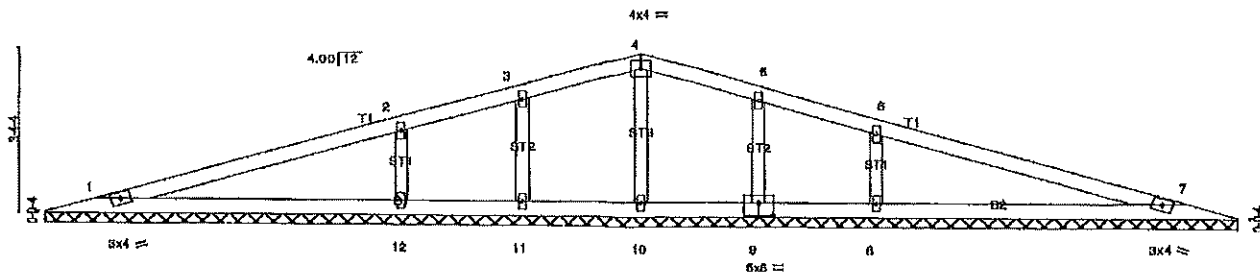
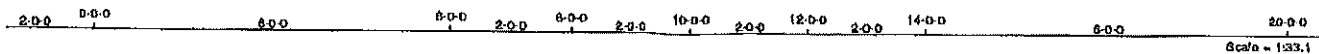
Midwest Manufacturing Address 1 Address 2 City, State Zip							Truss: C11020 JobName: RESSPOCK Date: 02/22/17 09:25:09 Page: 1 of 1																																																				
SPAN 20-0-0	PITCH 4/12	QTY 1	OHL 2-0-0	OHR 2-0-0	CANT L 0-0-0	CANT R 0-0-0	PLYS 1	SPACING 24 in	WGT/PLY 61 lbs																																																		
All plates shown to be Eagle 20 unless otherwise noted.																																																											
Loading (psf) TCELL: 3 Snow (AP) 4280 TCDL: 10 BCCL: 0 BCCL: 10		General Bldg Code: IRC 2015 TRF: 1-2007 Reg Mbr License: Yes Lumber D.O.L.: 115%		CSI Summary TCI: 0.87 (1-2) HCI: 0.98 (4-1) Wbb: 0.77 (4-6)		Deflection Vert TL: 0.38 in Vert LL: 0.17 in Horiz TL: 0.08 in		L/ (loc) L/611 (5-0) L/999 (6) 5		Allowed L/240 L/240																																																	
Reaction Summary <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>JT</th> <th>Brig Combo</th> <th>Brig Width</th> <th>Red Brig Width</th> <th>Max React</th> <th>Max Grav UpRft</th> <th>Max MWFRS UpRft</th> <th>Max C&C UpRft</th> <th>Max UpRft</th> <th>Max Horiz</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>1</td> <td>3.5 in</td> <td>2.27 in</td> <td>1,448 lbs</td> <td>.</td> <td>.</td> <td>-248 lbs</td> <td>-248 lbs</td> <td>8 lbs</td> </tr> <tr> <td>5</td> <td>1</td> <td>3.5 in</td> <td>2.27 in</td> <td>1,448 lbs</td> <td>.</td> <td>.</td> <td>-248 lbs</td> <td>-248 lbs</td> <td>.</td> </tr> </tbody> </table>										JT	Brig Combo	Brig Width	Red Brig Width	Max React	Max Grav UpRft	Max MWFRS UpRft	Max C&C UpRft	Max UpRft	Max Horiz	1	1	3.5 in	2.27 in	1,448 lbs	.	.	-248 lbs	-248 lbs	8 lbs	5	1	3.5 in	2.27 in	1,448 lbs	.	.	-248 lbs	-248 lbs	.																				
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Material Summary TC: SPF #2 2x4 BC: SPF #2 2x4 Wbb: SPF #2 2x3					Bracing Summary TC Bracing: Sheathed or Purlins at 3-1-0, Purlin design by Others BC Bracing: Sheathed or Purlins at 10-0-0, Purlin design by Others																																																						
Loads Summary 1) This truss has been designed for the effects of balanced and unbalanced snow loads in accordance with ASCE 7-10 with the following user defined input: 60 psf ground snow load, Terrain Category II, Exposure Category Fully Exposed (Ce = 0.5), Risk Category II (I = 1.00), Thermal Condition Cold ventilated (Ct = 1.1), DOL = 1.15. Unbalanced. If the roof configuration differs from hipped, 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 ASCE 7-10 with the following user defined input: 115 mph (Exposure D, Exposure II, Enclosed, Gable/Hip, Risk Category II, Over All Bldg Dims 25 ft x 60 ft, h = 15 ft, End Zone Truss, Roof and webs considered, DOL = 1.60 4) Minimum average side loading has been applied in accordance with IRC 301.5																																																											
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Notes 1) Unless noted otherwise, do not cut or alter any truss member or plate without prior approval from a Professional Engineer. 2) When this truss has been chosen for quality assurance inspection, the Double Polygon Method per TRF 1-2007/Chapter 3 shall be used. 3) The fabrication tolerance for the roof of truss is 0% (Cq = 1.00). 4) Brace bottom chord with approved sheathing or purlin per Bracing Summary. 5) Creep has been considered in the analysis of this truss. 6) Listed wind uplift reactions based on MWFRS & C&C loading.																																																											
ALL PERSONS FABRICATING, HANDLING, ERECTING OR INSTALLING ANY TRUSS 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 DESIGN AND AVAILABLE FROM EAGLE UPON REQUEST. DESIGN VALID ONLY WHEN EAGLE METAL CONNECTORS ARE USED.							TrussBuild® Software v5.5.2.240 Eagle Metal Products Dallas, TX 75214																																																				

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Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
QTRCC0488289	TIDE	GABLE	2	1	
Mikiwest manufacturing, oak dale rd					
7,040 a Nov 10 2016 MITek Industrial, Inc. Mon Jan 23 07:30:29 2017 Page 1					
ID:3qC1a_J7G12N0ZVZ61NWR_zaY2K-y66NNS_fHOZgSPrep0kKwWFI0NOCeSVOTOAI4z6Y2f					



LOADING (psf)	SPACING-	CSI	DEFL.	PLATES	GRIP
TCLL (roof) 30.0	Plate Grp DCL 2.0-0	TO 0.30	In (loc) 1/4" 1/2" 1"	MT20	107/144
Snow (Ps/Pg) 27.7/40.0	Lumber DCL 1.15	EO 0.20	Vert(LL) n/a		
TODL 7.0	Rep Strass Incr YES	WB 0.12	Vert(OT) n/a		
ROLL 0.0	Code IRC2015/TPI2014	(Matrix)	Horz(OT) 0.00 7		
BODL 10.0					
				Weight: 63 lb	FT = 20'

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 8-0-0 on purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 as bracing.

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

REACTIONS. All bearings 20-0-0.
 (lb) - Max Horz 1--40(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 7, 11, 12, 9, 8
 Max Grav All reactions 250 lb or less at joint(s) 1, 7, 11, 9 except 10=255(LC 2), 12=516(LC 2), 8=516(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 2-12=-367/131, 8-6=-307/131

JOINT STRESS INDEX
 1 = 0.87, 2 = 0.51, 3 = 0.51, 4 = 0.49, 5 = 0.51, 6 = 0.51, 7 = 0.57, 8 = 0.51, 9 = 0.31, 10 = 0.51, 11 = 0.51 and 12 = 0.51

- NOTES- (14)**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=81mph; TODL=4.2psf; BODL=0.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (envelope) gable and zone and O-C Exterior(2) zone; cantilever left and right exposed; and vertical left and right exposed; O-C for members and forces & MWFRS for reactions shown; Lumber DCL=1.15 plate grip DCL=1.60
 - 3) Truss designed for wind loads in the plane of the truss only. For eave exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSITP 1.
 - 4) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load); Lumber DCL=1.15 Plate DCL=1.15; Pg=40.0 psf (ground snow); Ps=27.7 psf (roof snow); Lumber DCL=1.15 Plate DCL=1.15; Category II; Exp B; Fully Exp.; Ct=1.1
 - 5) Roof design snow load has been reduced to account for slope.
 - 6) Unbalanced snow loads have been considered for this design.
 - 7) All plates are 1.5x4 MT20 unless otherwise indicated.
 - 8) Gable requires continuous bottom chord bearing.
 - 9) Gable studs spaced at 2-0-0 on.
 - 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 11) This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 8-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7, 11, 12, 9, 8.
 - 13) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R502.10.2 and referenced standard ANSITP 1.

LOAD CASE(S) Standard