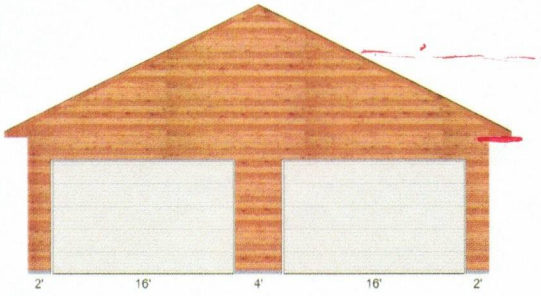
Date: 8/10/2023 - 12:35 PM
Design ID: 316358799911
Estimated Price: $40,805.29
**Today's estimated price. Future pricing may go up or down. Tax, labor, and delivery not included.*

MENARDS® Design&Buy™ GARAGE

Dimensions

Wall Configurations

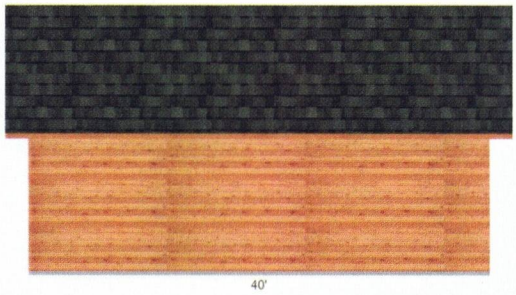
*Some items like wainscot, gutter, gable accents, are not displayed if selected.



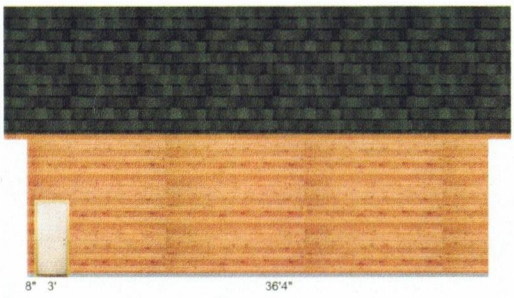
ENDWALL B

Ideal Door® Commercial 16' x 10' White Insulated

Ideal Door® Commercial 16' x 10' White Insulated

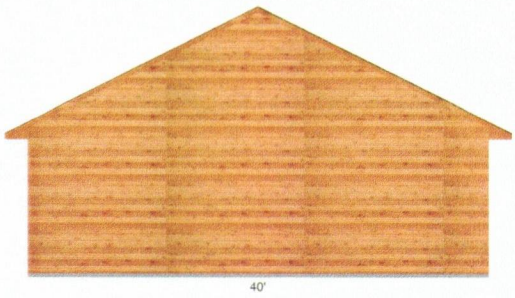


SIDEWALL D



SIDEWALL C

Mastercraft® 36W x 80H Primed Steel 6-Panel



ENDWALL A

For other design systems search "Design & Buy" on Menards.com

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How to recall and purchase your design at home:

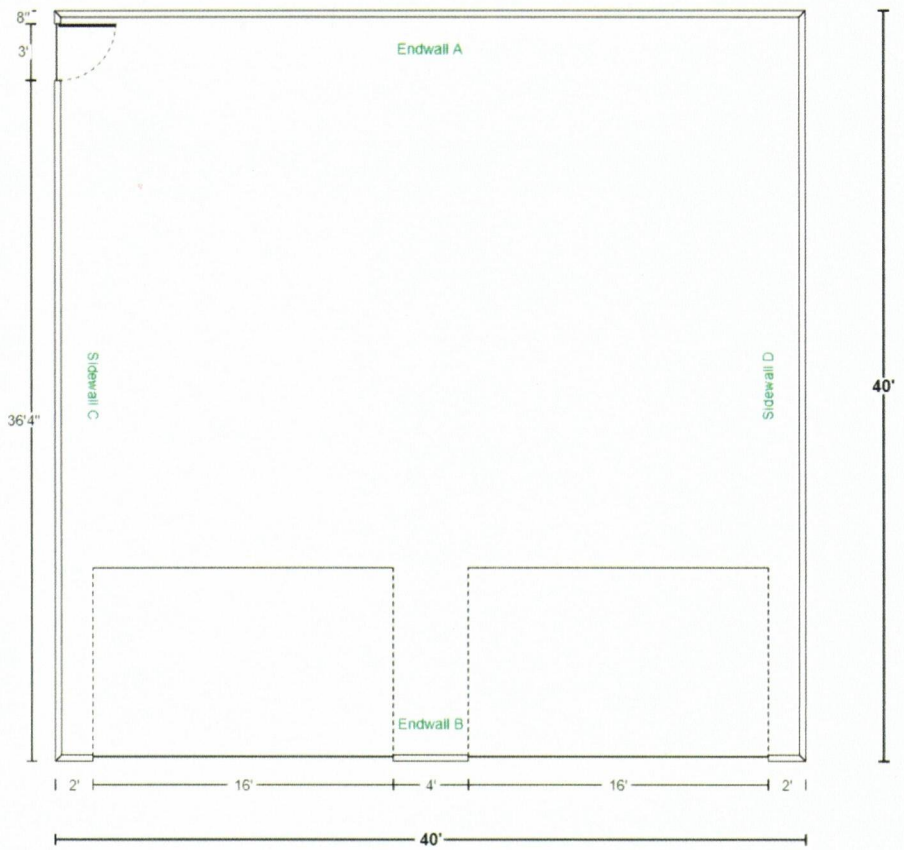
OR

1. On Menards.com, enter "Design & Buy" in the search bar
2. Select the Garage Designer
3. Recall your design by entering Design ID: 316358799911
4. Follow the on-screen purchasing instructions

How to purchase your design at the store:

1. Enter Design ID: 316358799911 at the Design-It Center Kiosk in the Building Materials Department
2. Follow the on-screen purchasing instructions

Garage Image



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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.

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MENARDS® Design&Buy™ GARAGE

Materials

Building Info

Building Location Zip Code:	56472
Building Width:	40'
Building Length:	40'
Building Height:	12'
Curb:	Poured Curb
Curb Height:	4"
Foundation Type:	Thickened Slab
Wall Framing Stud:	2 x 6
Roof Framing:	Truss Construction
Truss Type:	Common
Roof Pitch:	6/12 Pitch
Eave Overhang:	24"
Gable Overhang:	24"
Custom Garage Plan:	No I do not need a custom building plan

Wall Info

Siding Material Types:	Cedar Bevel Lap
Accent Material Type:	None
Wainscot Material Type:	None
Wall Sheathing:	7/16 x 4 x 8 OSB(Oriented Strand Board)
House Wrap:	Kimberly-Clark BLOCK-IT® 9'x75'House Wrap
Gable Vents:	None

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Roof Info

Roof Sheathing:	1/2 x 4 x 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.), Color: Estate Gray
Roof Underlayment:	Owens Corning® ProArmor® Synthetic Roofing Underlayment 42" x 286' (1,000 sq. ft.)
Ice and Water Barrier:	Owens Corning® WeatherLock® G Granulated Self-Sealing Ice and Water Barrier 3' x 66.7'(200sq.ft)
Fascia Material Type:	Cedar Fascia
Fascia:	1 x 6 Red Cedar Board
Soffit Material Type:	Cedar Soffit
Soffit:	3/8 x 4 x 8 Textured No Groove Plywood
Roof Edge:	12' Aluminum Style D Roof Edging, Color: White
Eave Vent:	None
Gutter Material Type:	None
Ridge Vent:	None
Roof Vents:	None

Openings

Service Door:	Mastercraft® 36W x 80H Primed Steel 6-Panel
Overhead Door:	Ideal Door® Commercial 16' x 10' White Insulated
Overhead Door:	Ideal Door® Commercial 16' x 10' White Insulated
Overhead Door Trim Type:	Vinyl
Vinyl Trim Color:	White

Additional Options

Ceiling Insulation:	Blow-in Cellulose
Ceiling Insulation R Value:	R13 INSULMAX® Blow-in Cellulose Insulation
Wall Insulation:	R-19 Unfaced Fiberglass Insulation 6-1/4" x 15" x 39.2' - 48.96 sq ft
Ceiling Finish:	Cut to Length Pro-Rib® Steel Panel
Wall Finish:	Cut to Length Pro-Rib® Steel Panel
Hydronic Radiant Heat:	No
Anchor bolt:	Grip Fast® 1/2 x 10 HDG Anchor Bolt w/ Nut & Washer
Framing Fasteners:	Grip Fast® 3-1/4 16D Vinyl-Coated Smooth Shank Sinker Nail - 5 lb. Box
Sheathing Fasteners:	Grip Fast® 2-1/2 8D Vinyl-Coated Smooth Shank Sinker Nail - 5 lb. Box
Roofing/Shingle Fasteners:	Grip Fast® 1-1/4 Electro-Galvanized Coil Roofing Nails - 7,200 Count
Truss Fastener:	FastenMaster® TimberLOK® 5/16 x 6 Hex Drive Black Hex Head Timber Screw - 50 Count
Overhead Opening Hardware:	No

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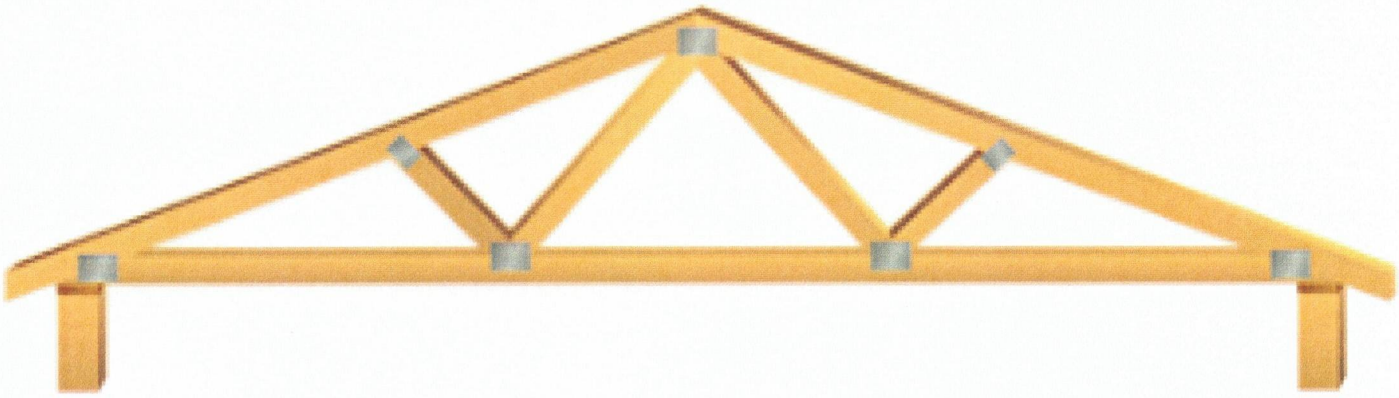
Helpful Hints for Garage Construction

- Studs are estimated 16 inches on center with single treated bottom plate and double top plate.
- For 10- and 12-foot-tall buildings studs should be cut for an approximate 10- or 12-foot plate height.
- If steel is estimated (Pro-Rib or Pro-Snap), the steel lengths should be verified based off the actual framing. Plate height (stud length), truss heel and other framing should be confirmed. Steel is estimated to the inch, make sure the lengths are accurate based on final overall building design.
- Trusses included are estimated at 2 feet on center spacing. The design is based on the zip code provided, design and loading should be verified.
- Trusses should not be cut or modified with the exception of trimming the truss tails to the correct overhang.
- The bottom chord is designed to support standard ceiling and insulation materials.
- Dropped end trusses are estimated with 18 inch and 24 inch gable overhangs.



Menards Building Checklist Planning

- Get a permit. Check restrictions, building codes or local zoning to make sure your design complies with all requirements.
- Contact local utilities to ensure construction will not disturb any electrical, cable or plumbing.
- If necessary, hire a professional to help with planning and construction.
- Consider site conditions including soil type, grade, and runoff before finalizing your design.
- Material estimates provided can be changed to meet your needs.
- Menards offers professional delivery of materials. Delivery is extra based on the distance from your local Menards store to your building site.
- Practice good safety habits, use PPE including eye protection & dust masks during construction.
- Make sure to follow good building practice and all manufacturer's instructions. Use all the hardware and fasteners recommended.

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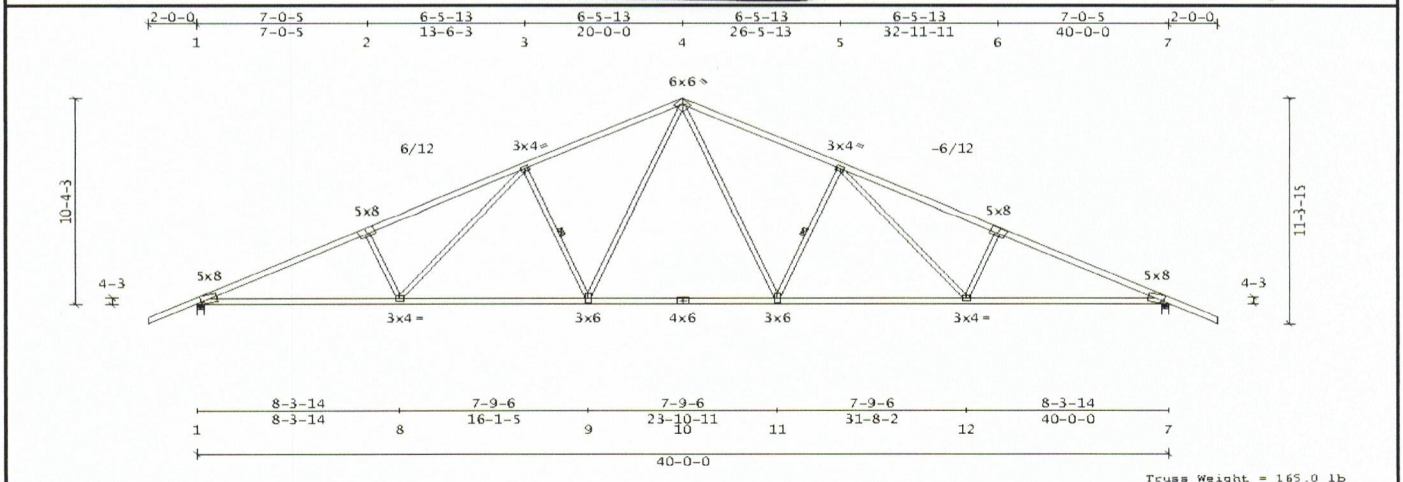
Project Name: QTREC0738919 | **Qty: 27** | **Truss: T40**

Customer: WALK IN

SID:
TID:
Date: 06 / 16 / 22
Page: 1 of 1



Truss Weight = 165.0 lb

Code/Design: IRC-2018/TPI-2014
PSF Live Dead Dur Factors
TC 42.0 7.0 Live Wind Snow
BC 0.0 10.0 Lum 1.15 1.60 1.15
Total 59.0 Plt 1.15 1.60 1.15
Spacing: 2-00-00 o.c. Plies: 1
Repetitive Member Increase: Yes
Green Lumber: No Wet Service: No
Fab Tolerance: 15% Creep (Kcc) = 2.0
OH Soffit Load: 1.0 psf

----------Snow Load Specs----------
ASCE7-16 Ground Snow(Pg) = 60.0 psf
Risk Cat: II Terrain Cat: B
Roof Exposure: Fully Exposed
Thermal Condition: Cold
Ventilated(1.1)
Unobstructed Slippery Roof: No
Low-Slope Minimums(Pmin): No
Unbalanced Snow Loads: Yes
Rain Surcharge: No Ice Dam Chk: Yes

----------Wind Load Specs----------
ASCE7-16 Wind Speed(V) = 115 mph
Risk Cat: II Exposure Cat: B
Bldg Dims: L = 0.0 ft B = 0.0 ft
M.R.H(h) = 15.0 ft Kzt = 1.0
Bldg Enclosure: Enclosed
Wind DL(psf): TC = 4.2 BC = 6.0
End Vertical Exposed: L = Yes R = Yes
Wind Uplift Reporting: ASCE7 MWFRS
C&C End Zone: 4-00-00

-------Additional Design Checks------
10 psf Non-Concurrent BCLL: Yes
20 psf BC Limited Storage: Yes
200 lb BC Accessible Ceiling: No
300 lb TC Maintenance Load: No
2000 lb TC Safe Load: No
Unbalanced TCLL: Yes

Material Summary

TC	2x4	SPF	1650/1.5		
	2x4	SPF	2100/1.8	2-4	4-6
BC	2x4	SPF	1650/1.5		
Webs	2x3	SPF	Stud		
	2x3	SPF	#2	4-11	9-4

Member Forces Summary

Max CSI in TC PANEL	1 -	2	0.83
Max CSI in BC PANEL	1 -	8	0.76
Max CSI in Web	3 -	9	0.77

...Mem...	Ten	Comp	.CSI.
TC OH- 1	92	0	0.37
1- 2	495	4423	0.83
2- 3	537	4193	0.74
3- 4	495	3224	0.80
4- 5	495	3224	0.80
5- 6	538	4193	0.74
6- 7	495	4423	0.83
7-OH	92	0	0.37
BC 1- 8	3833	335	0.76
7-12	3833	343	0.76
8- 9	3106	212	0.75
9-10	2320	67	0.63
10-11	2320	67	0.63
11-12	3106	214	0.75
Web 2- 8	191	571	0.28
3- 8	861	98	0.52
3- 9	249	1220	0.77
4- 9	1397	151	0.48
4-11	1397	151	0.48
5-11	249	1220	0.77
5-12	861	98	0.52
6-12	191	571	0.28

Lu(max) = 22-00-00

Reaction Summary

----------Reaction Summary(Lbs)----------

Jnt	--X-Loc-	React	-Up-	--Width-	-Reqd	-Mat	PSI
1	01-12	2560	0	03-08	04-00**	DFL	425
7	39-10-04	2560	0	03-08	04-00**	DFL	425

Max Horiz = -140 / +140 at Joint 1
(**) indicates Reqd Width > actual Width; enhancement may be required.
Building Designer to provide adequate bearing size or enhancement.

Loads Summary

This truss has been designed for the effects of an unbalanced top chord live load occurring at [20-00-00] using a 1.00 Full and 0.00 Reduced load factor.

See Loadcase Report for loading combinations and additional details.

Notes

Plates designed for Cq at 0.85 and Rotational Tolerance of 10.0 degrees
Plates located at TC pitch breaks meet the prescriptive minimum size requirement to transfer unblocked diaphragm loads across those joints.
Continuous Lateral Restraint (CLR) cows require diagonal bracing per D-WEBCLRBRACE. Alternatively, see D-WEBREINFORCE.

Deflection Summary

TrussSpan	Limit	Actual(in)	Location
Vert LL	L/240	L/999(-0.39)	11-12
Vert DL	L/90	L/999(-0.18)	11-12
Vert CR	L/180	L/833(-0.57)	11-12
Horz LL	0.75in	(0.14)	@Jt 7
Horz CR	1.25in	(0.20)	@Jt 7
Ohng CR	2L/180	2L/982(-0.05)	1- 1
Ohng CR	2L/180	2L/982(-0.05)	7- 7

Bracing Data Summary

----------Bracing Data----------
Chords: continuous except where shown
------- Web Bracing -- CLR ----------
Single: 3- 9 11- 5
Continuous Restraint Bracing Req'd
See BCSI-B3 3.0

Plate offsets (X, Y):

(None unless indicated below)
Jnt1(02-10,01-08), Jnt2(-00-07,00-14), Jnt4(0,-00-05), Jnt6(00-07,00-14), Jnt7(-02-10,01-08), Jnt10(0,00-04)

Joint Stress Index (JSI):

Jnt1(0.97), Jnt2(0.88), Jnt3(0.98), Jnt4(0.94), Jnt5(0.98), Jnt6(0.88), Jnt7(0.97), Jnt8(0.90), Jnt9(0.94), Jnt10(0.99), Jnt11(0.94), Jnt12(0.90)

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Eau Claire, WI 54703
(715) 876-5555
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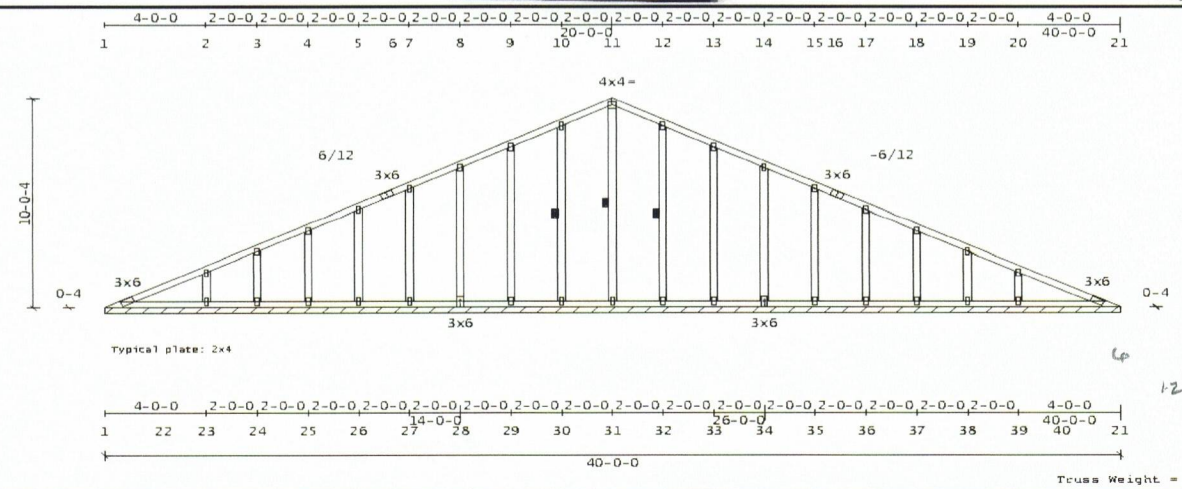
Project Name: QTREC0738919 | **Qty: 1** | **Truss: T40DE**

Customer: WALK IN

SID:
TID:
Date: 06 / 16 / 22
Page: 1 of 1



Truss Weight = 210.6 lb

Code/Design: IRC-2018/TPI-2014	----------Snow Load Specs----------	----------Wind Load Specs----------	-------Additional Design Checks------
PSF Live Dead Duc Factors	ASCE7-16 Ground Snow(Pg) = 60.0 psf	ASCE7-16 Wind Speed(V) = 115 mph	10 psf Non-Concurrent BCLL: Yes
TC 42.0 7.0 Live Wind Snow	Risk Cat: II Terrain Cat: B	Risk Cat: II Exposure Cat: B	20 psf BC Limited Storage: Yes
BC 0.0 10.0 Lum 1.15 1.60 1.15	Roof Exposure: Fully Exposed	Bldg Dims: L = 0.0 ft B = 0.0 ft	300 lb BC Accessible Ceiling: No
Total 59.0 Plt 1.15 1.60 1.15	Thermal Condition: Cold	M.R.H(h) = 15.0 ft Kzt = 1.0	300 lb TC Maintenance Load: No
Spacing: 2-00-00 o.c. Plies: 1	Ventilated(1.1)	Bldg Enclosure: Enclosed	2000 lb TC Safe Load: No
Repetitive Member Increase: Yes	Unobstructed Slippery Roof: No	Wind DL(psf): TC = 4.2 BC = 6.0	Unbalanced TCLL: Yes
Green Lumber: No Wet Service: No	Low-Slope Minimums(Pfmin): No	End Vertical Exposed: L = Yes R = Yes	
Fab Tolerance: 15% Creep (Kcr) = 2.0	Unbalanced Snow Loads: Yes	Wind Uplift Reporting: ASCE7 MWFRS	
OH Soffit Load: 1.0 psf	Rain Surcharge: No Ice Dam Chk: Yes	C&C End Zone: 4-00-00	

Material Summary

TC	2x4	SPF	#2
BC	2x4	SPF	#2
Webs	2x4	SPF	Stud
	2x4	SPF	#2 29-9 30-10 31-11 32-12 33-13

Member Forces Summary

Max CSI in TC PANEL	1 - 2	0.17
Max CSI in BC PANEL	1 - 22	0.11
Max CSI in Web	29 - 9	0.32

...Mem...	Ten	Comp	.CSI.
TC 1- 6	57	111	0.17
6-11	182	98	0.13
11-16	182	98	0.13
16-21	57	111	0.17
BC 1-28	134	62	0.11
21-34	134	62	0.11
28-34	134	62	0.03
Web 2-23	126	279	0.06
3-24	57	169	0.04
4-25	69	200	0.06
5-26	66	195	0.09
7-27	66	208	0.14
8-28	65	299	0.28
9-29	70	311	0.32
10-30	59	328	0.12
11-31	41	159	0.07
12-32	59	328	0.12
13-33	70	311	0.32
14-34	65	299	0.28
15-35	66	208	0.14
17-36	66	195	0.09
18-37	69	200	0.06
19-38	57	169	0.04
20-39	126	279	0.06

Lu(max) = 20-00-00

Reaction Summary

Reactions not shown: down < 400 and up < 150

---- Reaction Summary (plf) -----

Jnt-Jnt	React -Up-	--Width-
1- 21	118	0 40-00-00

Max Horiz = -135 / +135 at Joint 31

Loads Summary

This truss has been designed for the effects of an unbalanced top chord live load occurring at [20-00-00] using a 1.00 Full and 0.00 Reduced load factor.

See Loadcase Report for loading combinations and additional details.

Notes

Gable webs are attached with min. 1x3 20 ga.plates. The max.cake overhang = 1/2 the truss spacing. If this truss is exposed to wind loads perpendicular to the plane of the truss, it must be braced according to a standard detail matching the wind criteria shown, or according to the Construction Documents and/or BCSI - B3.
Plates designed for Cq at 0.85 and Rotational Tolerance of 10.0 degrees
Plates located at TC pitch breaks meet the prescriptive minimum size requirement to transfer unblocked diaphragm loads across those joints.
Continuous Lateral Restraint (CLR) rows require diagonal bracing per D-WEBCLRBRACE. Alternatively, see D-WEBREINFORCE.

Deflection Summary

TrussSpan	Limit	Actual(in)	Location
Vert LL	L/240	L/999(-0.00)	1-22
Vert DL	L/90	L/999(-0.00)	1-22
Vert CR	L/180	L/999(-0.01)	1-22
Horz LL	0.75in	(0.01)	@Jt21
Horz CR	1.25in	(0.01)	@Jt21

Bracing Data Summary

----------Bracing Data----------
Chords; continuous except where shown
------- Web Bracing -- CLR ----------
Single: 30-10 31-11 32-12
Continuous Restraint Bracing Req'd
See BCSI-B3 3.0

Plate offsets (X, Y):

(None unless indicated below)
Jnt28(0,-00-08), Jnt34(0,-00-08)

Joint Stress Index (JSI):

Jnt1(0.43), Jnt2(0.49), Jnt3(0.49), Jnt4(0.49), Jnt5(0.49), Jnt6(0.33), Jnt7(0.49), Jnt8(0.49), Jnt9(0.49), Jnt10(0.49), Jnt11(0.49), Jnt12(0.49), Jnt13(0.49), Jnt14(0.49), Jnt15(0.49), Jnt16(0.33), Jnt17(0.49), Jnt18(0.49), Jnt19(0.49), Jnt20(0.49), Jnt21(0.43), Jnt23(0.49), Jnt24(0.49), Jnt25(0.49), Jnt26(0.49), Jnt27(0.49), Jnt28(0.65), Jnt29(0.49), Jnt30(0.49), Jnt31(0.49), Jnt32(0.49), Jnt33(0.49), Jnt34(0.65), Jnt35(0.49), Jnt36(0.49), Jnt37(0.49), Jnt38(0.49), Jnt39(0.49)

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