

Project Number: 142840

Date: 9/10/2025

9:26:43 AM

Project Name: Chick-fil-A #05715

Project Address: SW CORNER HWY 50 & MO STATE RTE 291
LEE'S SUMMIT, MO 64081

Project Description: **Roof Package**

PROJECT INFORMATION:

Current Submittal: OUT FOR APPROVAL - NOT FOR PRODUCTION

REFERENCE DOCUMENTS:

DISCIPLINE	BY	DATE	REV#	TYPE	SHEET SET
Architectural	Chipman Design Architecture Inc.	7/18/25	1	Construction	Full Set
Structural	Britt, Peters & Associates	7/18/25	1	Construction	Full Set
Mechanical	Kurzynske & Associates	7/18/25	1	Construction	Full Set

PROJECT CONTACTS:

Your primary contact:

Project Manager:

Phil Hoover

(208) 364-1343

phoover@redbuilt.com

Your secondary contact:

Sales Representative:

Nick Wolff

(740) 513-4541

nwolf@RedBuilt.com



BRITT, PETERS
AND
ASSOCIATES
INC.
consulting engineers

This document has been reviewed for conformance with the design concepts and general compliance with the contract documents. The Contractor is responsible for confirming and correlating all quantities and dimensions, fabrication and construction methods, and coordinating this work with all other trades.

☐ NO EXCEPTIONS TAKEN
☒ EXCEPTIONS NOTED
☐ RESUBMIT

Date: 09/24/2025
By: akmoore

COORDINATE TRUSS LAYOUT WITH UPDATED STUD PACK SIZES (REF WP LAYOUT).

SUBMIT FINAL SIGNED AND SEALED PACKAGE FOR RECORD.

-BPA

09/26/25: CDA's review of these documents is limited solely to the specific items on which comments are provided. See engineer's stamp and comments for additional requirements where applicable.

Material List and Calculation Pages: **1-27**

Shop Drawing Pages: **R001-R500**

Our responsibility is limited to the design of RedBuilt products in accordance with the above referenced documents based on design loads specified by the Engineer Of Record.

IMPORTANT (Please Read)

- Provide this RedBuilt Submittal Package to the contractor/installer and Design Professional(s) of Record.
- Ensure the RedBuilt Submittal Package is verified and/or corrected for accuracy, including all clouded items.
- Materials furnished by RedBuilt are limited to those included in the material list provided herein.
- Installation of the materials is the sole responsibility of the installer.

Please return reviewed drawings to your Project Manager with Engineer Of Record stamped instructions.



Material List

RB Number 142840
Project Name Chick-fil-A #5248
Location Lee's Summit, MO

Operator Adam Stritenberger
Office Delaware

Delivery D1: Roof
Plant Delaware

Comment Preliminary: Not For Production
Status Out For Approval
Report Type Customer

RedBUILT™ Open-Web Products				Trusses									
Quantity	Type	Series	Depth(s)	Appl.	Profile	Clear Span	Pr. Length	Pr. Load	Fastnrs. Left	Fastnrs. Right		Footage	Notes
23	S1	Red-S	28	115%	Parallel	39'-2.50"	40.0	144.2	8-SDS1/4x3	8-SDS1/4x3		920.0	
1	S1S	Red-S	28	115%	Parallel	39'-2.50"	40.0	144.2	8-SDS1/4x3	8-SDS1/4x3		40.0	
4	S1W	Red-S	28	115%	Parallel	39'-2.50"	40.0	144.2	8-SDS1/4x3	8-SDS1/4x3		160.0	
8	S2	Red-S	28	115%	Parallel	39'-8.50"	41.0	153.1	8-SDS1/4x3	8-SDS1/4x3		328.0	
3	S2S	Red-S	28	115%	Parallel	39'-8.50"	41.0	153.1	8-SDS1/4x3	8-SDS1/4x3		123.0	
16	S3	Red-S	28	115%	Parallel	42'-10.00"	44.0	166.6	8-SDS1/4x3	8-SDS1/4x3		704.0	
2	S3S	Red-S	28	115%	Parallel	42'-10.00"	44.0	166.6	8-SDS1/4x3	8-SDS1/4x3		88.0	
57	••••	Red-S	••••••••	••••••••	••••••••	••••••••	••••••••	••••••••	••••••••	••••••••		Total 2363.0	

RedBUILT™ Open-Web Products				Bottom Chord Nailer									
Lineal Ft	Type	Size	Grade										Notes
384		2x4											

RedBUILT™ Open-Web Products				Strut Bracing									
Quantity	Type	Style	Spacing	Series									Notes
13		W5	16	Red-S									
1		W5	19.2	Red-S									
4		W5	24	Red-S									
28		W5	32	Red-S									

RedBUILT™ Open-Web Products				Cross Bracing									
Quantity	Type	Style	Length	Bend Profile	Uplift Application	Depth	Spacing						Notes
58		B2	39.000		Wind Uplift <30"	28							
18		B3R	41.000			28							

RedBUILT™ Open-Web Products				Load Transfer Blocks									
Quantity	Type	Series	Size	Depth	Material	Net Length							Notes
60		Red-S	Single	28	SS	23.40							

RedLam™ LVL Products				LVL Beams									
Quantity	Type	Size	Length	Grade	P.E.T.	Multi-Ply Substitution						Footage	Notes
1	RB01	5.25x20	20'-0.00"	2.0E	No	Allowed						20.0	
4	RB02	1.75x7.25	24'-0.00"	2.0E	No	N/A						96.0	
16	RB03	1.75x11.88	16'-0.00"	2.0E	No	N/A						256.0	
1	••••	5.25x20	••••••••	••••••••	••••••••	••••••••	••••••••	••••••••	••••••••	••••••••		Total 20.0	
4	••••	1.75x7.25	••••••••	••••••~	••••••~	••••••~	••••••~	••••••~	••••••~	••••••~		Total 96.0	
16	••••	1.75x11.88	••••••~	••••~	••••~	••••~	••••~	••••~	••••~	••••~		Total 256.0	

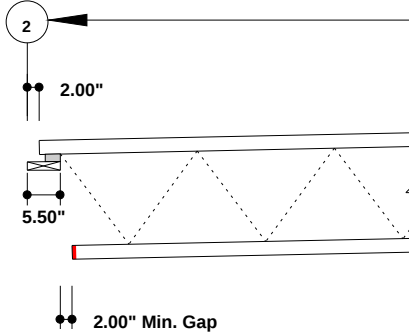
RedBUILT™ Products				Plywood Edge Blocking									
Quantity	Type	Size	Length	Z-Clips	Grade	Spacing	Series						Notes

117		2x4	12.438	Both Ends		16	Red-S		
27		2x4	20.438	One End		24	Red-S		
9		2x4	20.438	Both Ends		24	Red-S		
36		2x4	28.438	One End		32	Red-S		
45		2x4	28.438	Both Ends		32	Red-S		
9		2x4	44.438	One End		48	Red-S		

Hardware									
Quantity	Type	Description							Notes
1.0 lb		8dx1.5" Nails (0.131"x1.5")							
10.0 lb		10dx1.5" Nails (0.148"x1.5")							
912		SDS1/4x3 Screw							
72		PEB Z-Clip (1.5")							
60		A34 Angle							
16		A35 Framing Anchor							

NOT REVIEWED BY CDA

THIS PRODUCT MEETS OR EXCEEDS THE SET DESIGN CONTROLS FOR THE APPLICATION AND LOADS LISTED

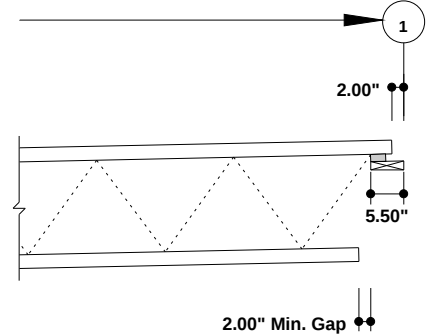


Reference Span = 40' 1.500"

28.000" Red-S™ OPEN WEB TRUSS
Parallel Profile

Clear Span = 39' 2.500"

Top Chord Slope = .25/12



All dimensions are horizontal.

Product diagram is conceptual.

LOADS

Analysis for Open-web Member Supporting SNOW Structural Classification.

Loads (psf): 20 Snow at 115% duration, 8 Dead (top chord), 12 Dead (bottom chord), @ 32.000" O.C. and:

LOAD GROUP #1 @ 32.000" O.C.-Wind Uplift

TYPE	CLASS	LIVE	DEAD	LOCATION(1)	APPL	APPLIED TO	COMMENT
Uniform(psf)	W(1.60)	-43.6	0	2.000" to 39' 11.000"	Adds to	TC	Wind Uplift ULT
Strap(lbs)	W(1.60)	1680	0	Left End	Adds to	TC	Axial Load ULT
Strap(lbs)	W(1.60)	1680	0	Right End	Adds to	TC	Axial Load ULT
Point(lbs)	W(1.60)	-672	0	5.500"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	W(1.60)	-672	0	39' 8.500"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	W(1.60)	672	0	11.330"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	W(1.60)	672	0	39' 2.670"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(plf)	W(1.60)	-584	0	3' 10.000"	Adds to	TC, on chord(s)	Brace KN6 (ULT)

LOAD GROUP #2 @ 17.750" O.C.-3rd-5th from LEFT - Soffit & Parallel Drift

TYPE	CLASS	LIVE	DEAD	LOCATION(1)	APPL	APPLIED TO	COMMENT
Uniform(psf)	W(1.60)	20.6	0	2.000" to 39' 11.000"	Adds to	TC	Wind Down ULT
Strap(lbs)	W(1.60)	-1680	0	Left End	Adds to	TC	Axial Load ULT
Strap(lbs)	W(1.60)	-1680	0	Right End	Adds to	TC	Axial Load ULT
Point(lbs)	W(1.60)	672	0	5.500"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	W(1.60)	672	0	39' 8.500"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	W(1.60)	-672	0	11.330"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	W(1.60)	-672	0	39' 2.670"	Adds to	TC, on chord(s)	Eccentric Load ULT
Uniform(psf)	S(1.15)	0	6	6' 8.000" to 11' 10.000"	Adds to	BC	Soffit
Uniform(psf)	S(1.15)	30.6	0	5.500" to 39' 5.500"	Adds to	TC	Parallel Drift

LOAD GROUP #3 @ 28.000" O.C.-10th from LEFT - AC#3

TYPE	CLASS	LIVE	DEAD	LOCATION(1)	APPL	APPLIED TO	COMMENT
Uniform(psf)	W(1.60)	20.6	0	2.000" to 39' 11.000"	Adds to	TC	Wind Down ULT
Strap(lbs)	W(1.60)	-1680	0	Left End	Adds to	TC	Axial Load ULT
Strap(lbs)	W(1.60)	-1680	0	Right End	Adds to	TC	Axial Load ULT
Point(lbs)	W(1.60)	672	0	5.500"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	W(1.60)	672	0	39' 8.500"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	W(1.60)	-672	0	11.330"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	W(1.60)	-672	0	39' 2.670"	Adds to	TC, on chord(s)	Eccentric Load ULT
Uniform(psf)	S(1.15)	0	6	6' 8.000" to 11' 10.000"	Adds to	BC	Soffit
Tapered(psf)	S(1.15)	27 to 0	0 to 0	5.500" to 6' 11.500"	Adds to	TC	Tapered Drift (Left)
Tapered(psf)	S(1.15)	0 to 27	0 to 0	33' 0.000" to 39' 6.000"	Adds to	TC	Tapered Drift (Right)
Point(lbs)	S(1.15)	0	241	17' 10.000"	Adds to	TC, on chord(s)	AC-3 (2402#/10)
Point(lbs)	S(1.15)	0	241	24' 8.000"	Adds to	TC, on chord(s)	AC-3 (2402#/10)

NOT REVIEWED BY CDA



LOAD GROUP #4 @ 28.500" O.C.-12th from Right - Condensers

TYPE	CLASS	LIVE	DEAD	LOCATION(1)	APPL	APPLIED TO	COMMENT
Uniform(psf)	W(1.60)	20.6	0	2.000" to 39' 11.000"	Adds to	TC	Wind Down ULT
Strap(lbs)	W(1.60)	-1680	0	Left End	Adds to	TC	Axial Load ULT
Strap(lbs)	W(1.60)	-1680	0	Right End	Adds to	TC	Axial Load ULT
Point(lbs)	W(1.60)	672	0	5.500"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	W(1.60)	672	0	39' 8.500"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	W(1.60)	-672	0	11.330"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	W(1.60)	-672	0	39' 2.670"	Adds to	TC, on chord(s)	Eccentric Load ULT
Tapered(psf)	S(1.15)	27 to 0	0 to 0	5.500" to 6' 11.500"	Adds to	TC	Tapered Drift (Left)
Tapered(psf)	S(1.15)	0 to 27	0 to 0	33' 0.000" to 39' 6.000"	Adds to	TC	Tapered Drift (Right)
Point(lbs)	S(1.15)	0	170	6' 7.000"	Adds to	TC, on chord(s)	Condenser (340#/2)
Point(lbs)	S(1.15)	0	170	10' 2.000"	Adds to	TC, on chord(s)	Condenser (340#/2)
Point(plf)	W(1.60)	584	0	3' 10.000"	Adds to	TC, on chord(s)	Parapet Brace - KN6

LOAD GROUP #5 @ 25.500" O.C.-10th from Right - AC#4 & Condensers

TYPE	CLASS	LIVE	DEAD	LOCATION(1)	APPL	APPLIED TO	COMMENT
Uniform(psf)	W(1.60)	20.6	0	2.000" to 39' 11.000"	Adds to	TC	Wind Down ULT
Strap(lbs)	W(1.60)	-1680	0	Left End	Adds to	TC	Axial Load ULT
Strap(lbs)	W(1.60)	-1680	0	Right End	Adds to	TC	Axial Load ULT
Point(lbs)	W(1.60)	672	0	5.500"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	W(1.60)	672	0	39' 8.500"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	W(1.60)	-672	0	11.330"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	W(1.60)	-672	0	39' 2.670"	Adds to	TC, on chord(s)	Eccentric Load ULT
Tapered(psf)	S(1.15)	27 to 0	0 to 0	5.500" to 6' 11.500"	Adds to	TC	Tapered Drift (Left)
Tapered(psf)	S(1.15)	0 to 27	0 to 0	33' 0.000" to 39' 6.000"	Adds to	TC	Tapered Drift (Right)
Point(lbs)	S(1.15)	0	184	6' 7.000"	Adds to	TC, on chord(s)	Condenser (340#/2)
Point(lbs)	S(1.15)	0	170	10' 2.000"	Adds to	TC, on chord(s)	Condenser (340#/2)
Point(lbs)	S(1.15)	0	250	27' 5.000"	Adds to	TC, on chord(s)	AC-4 (999#/4)
Point(lbs)	S(1.15)	0	250	34' 11.000"	Adds to	TC, on chord(s)	AC-4 (999#/4)

LOAD GROUP #6 @ 22.500" O.C.-S1W - single of double truss

TYPE	CLASS	LIVE	DEAD	LOCATION(1)	APPL	APPLIED TO	COMMENT
Uniform(psf)	W(1.60)	20.6	0	2.000" to 39' 11.000"	Adds to	TC	Wind Down ULT
Strap(lbs)	W(1.60)	-1680	0	Left End	Adds to	TC	Axial Load ULT
Strap(lbs)	W(1.60)	-1680	0	Right End	Adds to	TC	Axial Load ULT
Point(lbs)	W(1.60)	672	0	5.500"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	W(1.60)	672	0	39' 8.500"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	W(1.60)	-672	0	11.330"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	W(1.60)	-672	0	39' 2.670"	Adds to	TC, on chord(s)	Eccentric Load ULT
Tapered(psf)	S(1.15)	27 to 0	0 to 0	5.500" to 6' 11.500"	Adds to	TC	Tapered Drift (Left)
Tapered(psf)	S(1.15)	0 to 27	0 to 0	33' 0.000" to 39' 6.000"	Adds to	TC	Tapered Drift (Right)
Point(lbs)	S(1.15)	0	184	6' 7.000"	Adds to	TC, on chord(s)	Condenser (340#/2)
Point(lbs)	S(1.15)	0	170	10' 2.000"	Adds to	TC, on chord(s)	Condenser (340#/2)
Point(lbs)	S(1.15)	0	250	27' 5.000"	Adds to	TC, on chord(s)	AC-4 (999#/4)
Point(lbs)	S(1.15)	0	250	34' 11.000"	Adds to	TC, on chord(s)	AC-4 (999#/4)
Point(lbs)	S(1.15)	0	100	22' 8.500"	Adds to	TC, on chord(s)	Roof Hatch (200#/2)

LOAD GROUP #7 @ 32.000" O.C.-22 from LEFT - AC#2

TYPE	CLASS	LIVE	DEAD	LOCATION(1)	APPL	APPLIED TO	COMMENT
Uniform(psf)	W(1.60)	20.6	0	2.000" to 39' 11.000"	Adds to	TC	Wind Down ULT
Strap(lbs)	W(1.60)	-1680	0	Left End	Adds to	TC	Axial Load ULT
Strap(lbs)	W(1.60)	-1680	0	Right End	Adds to	TC	Axial Load ULT
Point(lbs)	W(1.60)	672	0	5.500"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	W(1.60)	672	0	39' 8.500"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	W(1.60)	-672	0	11.330"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	W(1.60)	-672	0	39' 2.670"	Adds to	TC, on chord(s)	Eccentric Load ULT
Uniform(psf)	S(1.15)	0	6	19' 1.000" to 23' 5.500"	Adds to	BC	Soffit
Tapered(psf)	S(1.15)	27 to 0	0 to 0	5.500" to 6' 11.500"	Adds to	TC	Tapered Drift (Left)
Tapered(psf)	S(1.15)	0 to 27	0 to 0	33' 0.000" to 39' 6.000"	Adds to	TC	Tapered Drift (Right)
Point(lbs)	S(1.15)	0	319	11' 2.000"	Adds to	TC, on chord(s)	AC-2 (2552#/8)
Point(lbs)	S(1.15)	0	319	16' 5.500"	Adds to	TC, on chord(s)	AC-2 (2552#/8)

(1) Location is specified from left reference point unless noted otherwise.

(3) All wind (W) loads are Strength based.

SUPPORTS

LEFT SUPPORT (Angle: 0°)
Material: Plate(s)
Bearing Clip: Heavy S-Clip Lateral
Reinforcement: Chord(s) only

RIGHT SUPPORT (Angle: 0°)
Material: Plate(s)
Bearing Clip: Heavy S-Clip Lateral
Reinforcement: Chord(s) only

DESIGN CONTROLS

Truss Member's Critical Design Component Value: 99.3% (Design / Allowable)

NOT REVIEWED BY CDA



Project: Chick-fil-A #5248
Location: Lee's Summit, MO
Delivery: R1
Del. Desc.: Roof

Type: S1
Qty: 23
Project Number: 142840

Truss design includes consideration for partial span application live load.

REACTIONS		LEFT MAXIMUM	LEFT MINIMUM	RIGHT MAXIMUM	RIGHT MINIMUM
	Total Load (lbs)	3081 W (1.60)	-1612 W (1.60)	2769 W (1.60)	-833 W (1.60)
	Live Load (lbs)	1874	-2242	1461	-1465

DEFLECTIONS & CAMBER

Deflection (Total Load) Span: 1.895" (L/248)
Deflection (Live Load) Span: 0.947" (L/497)

Center Span Camber: 1.186", Matched to S3

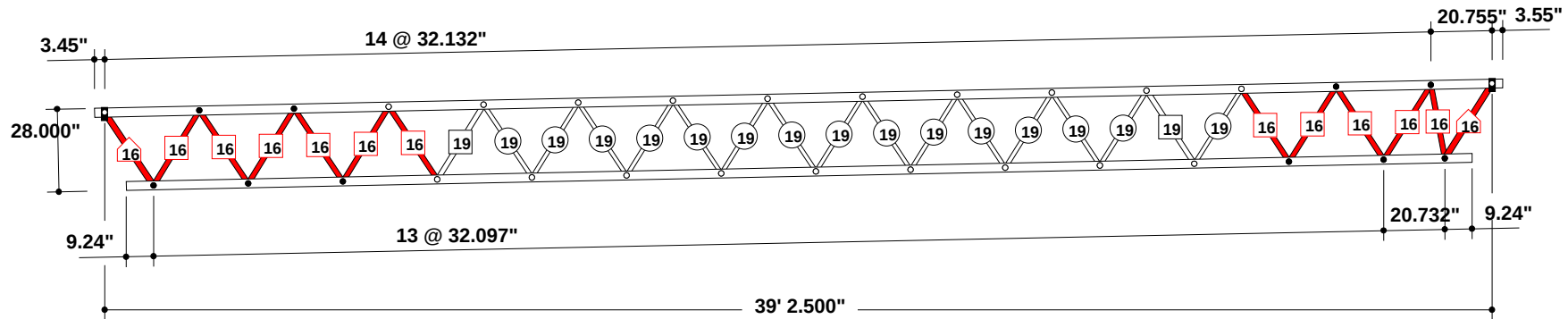
ADDITIONAL NOTES

- IMPORTANT! The analysis presented is output from software developed by RedBuilt LLC. Allowable product values shown are in accordance with current RedBuilt™ materials and code accepted design values. RedBuilt™ Engineering has verified the analysis. The input loads and dimensions have been provided by others and must be verified and approved for the specific application by the design professional for the project. Truss design values have been accepted by the following agencies: ICC ES Report No. ESR-1774 and LABC/LARC Supplement, DSA.
- Allowable Stress Design methodology was used for Code IBC analyzing the RedBuilt™ custom products listed above with chords analyzed using RedBuilt™ analysis.
- Pricing Load = 144.2 plf

OPERATOR INFORMATION

Adam Stritenberger, (740) 368-4227

NOT REVIEWED BY CDA



Red-S™ SERIES LEGEND

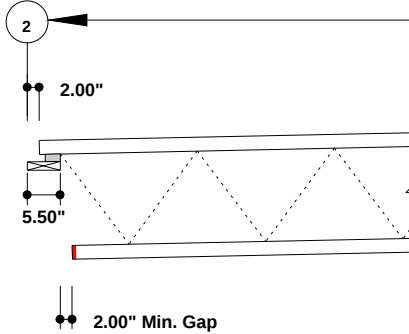
- Heavy S-Clip Lateral @ LEFT TOP PIN# 1.
- Heavy S-Clip Lateral @ RIGHT TOP PIN# 16.
- 3/4" DIA. PIN
- 1/2" DIA. PIN
- WEB, 1" DIA. & WEB GAUGE
- 1 1/4" DIA.
- 1 1/2" DIA.

Project: Chick-fil-A #5248 Truss ID: S1
Location: Lee's Summit, MO Quantity: 23
Delivery: R1 Project Number: 142840

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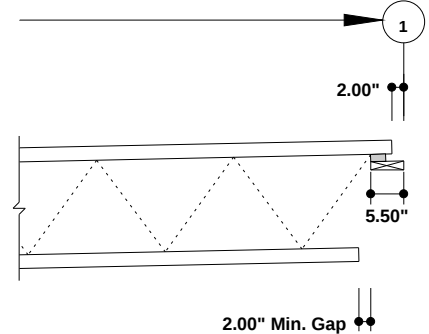


Reference Span = 40' 1.500"

28.000" Red-S™ OPEN WEB TRUSS
Parallel Profile

Clear Span = 39' 2.500"

Top Chord Slope = .25/12



All dimensions are horizontal.

Product diagram is conceptual.

LOADS

Analysis for Open-web Member Supporting SNOW Structural Classification.

Loads (psf): 20 Snow at 115% duration, 8 Dead (top chord), 12 Dead (bottom chord), @ 32.000" O.C. and:

LOAD GROUP #1 @ 32.000" O.C.-Wind Uplift

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Strap(lbs)	W(1.60)	1680	0	Right End	Adds to	TC	Axial Load ULT
Point(lbs)	W(1.60)	-672	0	5.500"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	W(1.60)	-672	0	39' 8.500"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	W(1.60)	672	0	11.330"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	W(1.60)	672	0	39' 2.670"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(plf)	W(1.60)	-584	0	3' 10.000"	Adds to	TC, on chord(s)	Brace KN6 (ULT)

LOAD GROUP #2 @ 17.750" O.C.-3rd-5th from LEFT - Soffit & Parallel Drift

TYPE	CLASS	LIVE	DEAD	LOCATION(1)	APPL	APPLIED TO	COMMENT
Uniform(psf)	W(1.60)	20.6	0	2.000" to 39' 11.000"	Adds to	TC	Wind Down ULT
Strap(lbs)	W(1.60)	-1680	0	Left End	Adds to	TC	Axial Load ULT
Strap(lbs)	W(1.60)	-1680	0	Right End	Adds to	TC	Axial Load ULT
Point(lbs)	W(1.60)	672	0	5.500"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	W(1.60)	672	0	39' 8.500"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	W(1.60)	-672	0	11.330"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	W(1.60)	-672	0	39' 2.670"	Adds to	TC, on chord(s)	Eccentric Load ULT
Uniform(psf)	S(1.15)	0	6	6' 8.000" to 11' 10.000"	Adds to	BC	Soffit
Uniform(psf)	S(1.15)	30.6	0	5.500" to 39' 5.500"	Adds to	TC	Parallel Drift

LOAD GROUP #3 @ 28.000" O.C.-10th from LEFT - AC#3

TYPE	CLASS	LIVE	DEAD	LOCATION(1)	APPL	APPLIED TO	COMMENT
Uniform(psf)	W(1.60)	20.6	0	2.000" to 39' 11.000"	Adds to	TC	Wind Down ULT
Strap(lbs)	W(1.60)	-1680	0	Left End	Adds to	TC	Axial Load ULT
Strap(lbs)	W(1.60)	-1680	0	Right End	Adds to	TC	Axial Load ULT
Point(lbs)	W(1.60)	672	0	5.500"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	W(1.60)	672	0	39' 8.500"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	W(1.60)	-672	0	11.330"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	W(1.60)	-672	0	39' 2.670"	Adds to	TC, on chord(s)	Eccentric Load ULT
Uniform(psf)	S(1.15)	0	6	6' 8.000" to 11' 10.000"	Adds to	BC	Soffit
Tapered(psf)	S(1.15)	27 to 0	0 to 0	5.500" to 6' 11.500"	Adds to	TC	Tapered Drift (Left)
Tapered(psf)	S(1.15)	0 to 27	0 to 0	33' 0.000" to 39' 6.000"	Adds to	TC	Tapered Drift (Right)
Point(lbs)	S(1.15)	0	241	17' 10.000"	Adds to	TC, on chord(s)	AC-3 (2402#/10)
Point(lbs)	S(1.15)	0	241	24' 8.000"	Adds to	TC, on chord(s)	AC-3 (2402#/10)

NOT REVIEWED BY CDA



LOAD GROUP #4 @ 28.500" O.C.-12th from Right - Condensers

TYPE	CLASS	LIVE	DEAD	LOCATION(1)	APPL	APPLIED TO	COMMENT
Uniform(psf)	W(1.60)	20.6	0	2.000" to 39' 11.000"	Adds to	TC	Wind Down ULT
Strap(lbs)	W(1.60)	-1680	0	Left End	Adds to	TC	Axial Load ULT
Strap(lbs)	W(1.60)	-1680	0	Right End	Adds to	TC	Axial Load ULT
Point(lbs)	W(1.60)	672	0	5.500"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	W(1.60)	672	0	39' 8.500"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	W(1.60)	-672	0	11.330"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	W(1.60)	-672	0	39' 2.670"	Adds to	TC, on chord(s)	Eccentric Load ULT
Tapered(psf)	S(1.15)	27 to 0	0 to 0	5.500" to 6' 11.500"	Adds to	TC	Tapered Drift (Left)
Tapered(psf)	S(1.15)	0 to 27	0 to 0	33' 0.000" to 39' 6.000"	Adds to	TC	Tapered Drift (Right)
Point(lbs)	S(1.15)	0	170	6' 7.000"	Adds to	TC, on chord(s)	Condenser (340#/2)
Point(lbs)	S(1.15)	0	170	10' 2.000"	Adds to	TC, on chord(s)	Condenser (340#/2)
Point(plf)	W(1.60)	584	0	3' 10.000"	Adds to	TC, on chord(s)	Parapet Brace - KN6

LOAD GROUP #5 @ 25.500" O.C.-10th from Right - AC#4 & Condensers

TYPE	CLASS	LIVE	DEAD	LOCATION(1)	APPL	APPLIED TO	COMMENT
Uniform(psf)	W(1.60)	20.6	0	2.000" to 39' 11.000"	Adds to	TC	Wind Down ULT
Strap(lbs)	W(1.60)	-1680	0	Left End	Adds to	TC	Axial Load ULT
Strap(lbs)	W(1.60)	-1680	0	Right End	Adds to	TC	Axial Load ULT
Point(lbs)	W(1.60)	672	0	5.500"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	W(1.60)	672	0	39' 8.500"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	W(1.60)	-672	0	11.330"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	W(1.60)	-672	0	39' 2.670"	Adds to	TC, on chord(s)	Eccentric Load ULT
Tapered(psf)	S(1.15)	27 to 0	0 to 0	5.500" to 6' 11.500"	Adds to	TC	Tapered Drift (Left)
Tapered(psf)	S(1.15)	0 to 27	0 to 0	33' 0.000" to 39' 6.000"	Adds to	TC	Tapered Drift (Right)
Point(lbs)	S(1.15)	0	184	6' 7.000"	Adds to	TC, on chord(s)	Condenser (340#/2)
Point(lbs)	S(1.15)	0	170	10' 2.000"	Adds to	TC, on chord(s)	Condenser (340#/2)
Point(lbs)	S(1.15)	0	250	27' 5.000"	Adds to	TC, on chord(s)	AC-4 (999#/4)
Point(lbs)	S(1.15)	0	250	34' 11.000"	Adds to	TC, on chord(s)	AC-4 (999#/4)

LOAD GROUP #6 @ 22.500" O.C.-S1W - single of double truss

TYPE	CLASS	LIVE	DEAD	LOCATION(1)	APPL	APPLIED TO	COMMENT
Uniform(psf)	W(1.60)	20.6	0	2.000" to 39' 11.000"	Adds to	TC	Wind Down ULT
Strap(lbs)	W(1.60)	-1680	0	Left End	Adds to	TC	Axial Load ULT
Strap(lbs)	W(1.60)	-1680	0	Right End	Adds to	TC	Axial Load ULT
Point(lbs)	W(1.60)	672	0	5.500"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	W(1.60)	672	0	39' 8.500"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	W(1.60)	-672	0	11.330"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	W(1.60)	-672	0	39' 2.670"	Adds to	TC, on chord(s)	Eccentric Load ULT
Tapered(psf)	S(1.15)	27 to 0	0 to 0	5.500" to 6' 11.500"	Adds to	TC	Tapered Drift (Left)
Tapered(psf)	S(1.15)	0 to 27	0 to 0	33' 0.000" to 39' 6.000"	Adds to	TC	Tapered Drift (Right)
Point(lbs)	S(1.15)	0	184	6' 7.000"	Adds to	TC, on chord(s)	Condenser (340#/2)
Point(lbs)	S(1.15)	0	170	10' 2.000"	Adds to	TC, on chord(s)	Condenser (340#/2)
Point(lbs)	S(1.15)	0	250	27' 5.000"	Adds to	TC, on chord(s)	AC-4 (999#/4)
Point(lbs)	S(1.15)	0	250	34' 11.000"	Adds to	TC, on chord(s)	AC-4 (999#/4)
Point(lbs)	S(1.15)	0	100	22' 8.500"	Adds to	TC, on chord(s)	Roof Hatch (200#/2)

LOAD GROUP #7 @ 32.000" O.C.-22 from LEFT - AC#2

TYPE	CLASS	LIVE	DEAD	LOCATION(1)	APPL	APPLIED TO	COMMENT
Uniform(psf)	W(1.60)	20.6	0	2.000" to 39' 11.000"	Adds to	TC	Wind Down ULT
Strap(lbs)	W(1.60)	-1680	0	Left End	Adds to	TC	Axial Load ULT
Strap(lbs)	W(1.60)	-1680	0	Right End	Adds to	TC	Axial Load ULT
Point(lbs)	W(1.60)	672	0	5.500"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	W(1.60)	672	0	39' 8.500"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	W(1.60)	-672	0	11.330"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	W(1.60)	-672	0	39' 2.670"	Adds to	TC, on chord(s)	Eccentric Load ULT
Uniform(psf)	S(1.15)	0	6	19' 1.000" to 23' 5.500"	Adds to	BC	Soffit
Tapered(psf)	S(1.15)	27 to 0	0 to 0	5.500" to 6' 11.500"	Adds to	TC	Tapered Drift (Left)
Tapered(psf)	S(1.15)	0 to 27	0 to 0	33' 0.000" to 39' 6.000"	Adds to	TC	Tapered Drift (Right)
Point(lbs)	S(1.15)	0	319	11' 2.000"	Adds to	TC, on chord(s)	AC-2 (2552#/8)
Point(lbs)	S(1.15)	0	319	16' 5.500"	Adds to	TC, on chord(s)	AC-2 (2552#/8)

(1) Location is specified from left reference point unless noted otherwise.

(3) All wind (W) loads are Strength based.

SUPPORTS

LEFT SUPPORT (Angle: 0°)
Material: Plate(s)
Bearing Clip: Heavy S-Clip Lateral
Reinforcement: Chord(s) only

RIGHT SUPPORT (Angle: 0°)
Material: Plate(s)
Bearing Clip: Heavy S-Clip Lateral
Reinforcement: Chord(s) only

DESIGN CONTROLS

Truss Member's Critical Design Component Value: 99.3% (Design / Allowable)

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Project: Chick-fil-A #5248
Location: Lee's Summit, MO
Delivery: R1
Del. Desc.: Roof

Type: S1S
Qty: 1
Project Number: 142840

Truss design includes consideration for partial span application live load.

REACTIONS

	LEFT MAXIMUM	LEFT MINIMUM	RIGHT MAXIMUM	RIGHT MINIMUM
Total Load (lbs)	3081 W (1.60)	-1612 W (1.60)	2769 W (1.60)	-833 W (1.60)
Live Load (lbs)	1874	-2242	1461	-1465

DEFLECTIONS & CAMBER

Deflection (Total Load) Span: 1.895" (L/248)
Deflection (Live Load) Span: 0.947" (L/497)

Center Span Camber: 1.186", Matched to S1

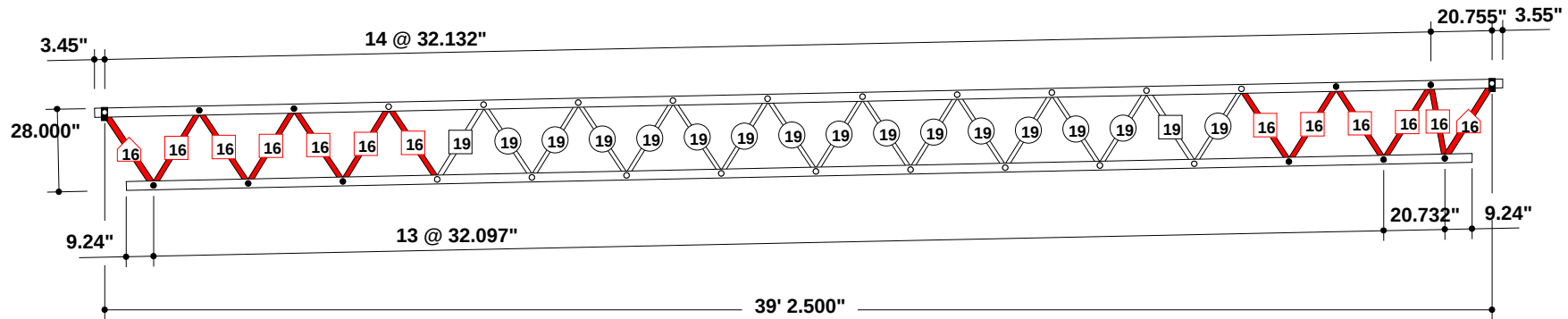
ADDITIONAL NOTES

- IMPORTANT! The analysis presented is output from software developed by RedBuilt LLC. Allowable product values shown are in accordance with current RedBuilt™ materials and code accepted design values. RedBuilt™ Engineering has verified the analysis. The input loads and dimensions have been provided by others and must be verified and approved for the specific application by the design professional for the project. Truss design values have been accepted by the following agencies: ICC ES Report No. ESR-1774 and LABC/LARC Supplement, DSA.
- Allowable Stress Design methodology was used for Code IBC analyzing the RedBuilt™ custom products listed above with chords analyzed using RedBuilt™ analysis.
- Pricing Load = 144.2 plf

OPERATOR INFORMATION

Adam Stritenberger, (740) 368-4227

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Left First Web Distance: 16.066"
Top Chord Material: 2- 1.50X 2.3" RedLam™ LVL
Bottom Chord Material: 2- 1.50X 2.3" RedLam™ LVL
Camber: 1.186"
Bottom Chord Slope: 0.250/12

Red-S™ SERIES LEGEND

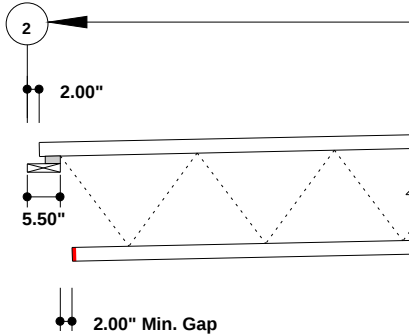
- Heavy S-Clip Lateral @ LEFT TOP PIN# 1.
- Heavy S-Clip Lateral @ RIGHT TOP PIN# 16.
- 3/4" DIA. PIN
- 1/2" DIA. PIN
- WEB, 1" DIA. & WEB GAUGE
- 1 1/4" DIA.
- 1 1/2" DIA.

Project: Chick-fil-A #5248	Truss ID: S1S
Location: Lee's Summit, MO	Quantity: 1
Delivery: R1	Project Number: 142840

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THIS PRODUCT MEETS OR EXCEEDS THE SET DESIGN CONTROLS FOR THE APPLICATION AND LOADS LISTED

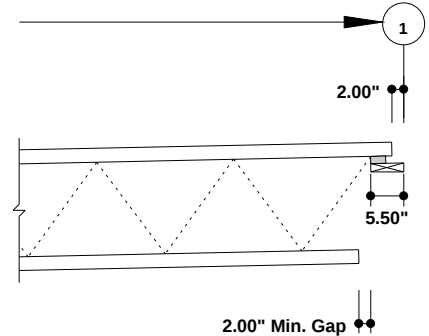


Reference Span = 40' 1.500"

28.000" Red-S™ OPEN WEB TRUSS
Parallel Profile

Clear Span = 39' 2.500"

Top Chord Slope = .25/12



All dimensions are horizontal.

Product diagram is conceptual.

LOADS

Analysis for Open-web Member Supporting SNOW Structural Classification.

Loads (psf): 20 Snow at 115% duration, 8 Dead (top chord), 12 Dead (bottom chord), @ 32.000" O.C. and:

LOAD GROUP #1 @ 32.000" O.C.-Wind Uplift

TYPE	CLASS	LIVE	DEAD	LOCATION(1)	APPL	APPLIED TO	COMMENT
Uniform(psf)	W(1.60)	-43.6	0	2.000" to 39' 11.000"	Adds to	TC	Wind Uplift ULT
Strap(lbs)	W(1.60)	1680	0	Left End	Adds to	TC	Axial Load ULT
Strap(lbs)	W(1.60)	1680	0	Right End	Adds to	TC	Axial Load ULT
Point(lbs)	W(1.60)	-672	0	5.500"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	W(1.60)	-672	0	39' 8.500"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	W(1.60)	672	0	11.330"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	W(1.60)	672	0	39' 2.670"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(plf)	W(1.60)	-584	0	3' 10.000"	Adds to	TC, on chord(s)	Brace KN6 (ULT)

LOAD GROUP #2 @ 17.750" O.C.-3rd-5th from LEFT - Soffit & Parallel Drift

TYPE	CLASS	LIVE	DEAD	LOCATION(1)	APPL	APPLIED TO	COMMENT
Uniform(psf)	W(1.60)	20.6	0	2.000" to 39' 11.000"	Adds to	TC	Wind Down ULT
Strap(lbs)	W(1.60)	-1680	0	Left End	Adds to	TC	Axial Load ULT
Strap(lbs)	W(1.60)	-1680	0	Right End	Adds to	TC	Axial Load ULT
Point(lbs)	W(1.60)	672	0	5.500"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	W(1.60)	672	0	39' 8.500"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	W(1.60)	-672	0	11.330"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	W(1.60)	-672	0	39' 2.670"	Adds to	TC, on chord(s)	Eccentric Load ULT
Uniform(psf)	S(1.15)	0	6	6' 8.000" to 11' 10.000"	Adds to	BC	Soffit
Uniform(psf)	S(1.15)	30.4	0	5.500" to 39' 5.500"	Adds to	TC	Parallel Drift

LOAD GROUP #3 @ 28.000" O.C.-10th from LEFT - AC#3

TYPE	CLASS	LIVE	DEAD	LOCATION(1)	APPL	APPLIED TO	COMMENT
Uniform(psf)	W(1.60)	20.6	0	2.000" to 39' 11.000"	Adds to	TC	Wind Down ULT
Strap(lbs)	W(1.60)	-1680	0	Left End	Adds to	TC	Axial Load ULT
Strap(lbs)	W(1.60)	-1680	0	Right End	Adds to	TC	Axial Load ULT
Point(lbs)	W(1.60)	672	0	5.500"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	W(1.60)	672	0	39' 8.500"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	W(1.60)	-672	0	11.330"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	W(1.60)	-672	0	39' 2.670"	Adds to	TC, on chord(s)	Eccentric Load ULT
Uniform(psf)	S(1.15)	0	6	6' 8.000" to 11' 10.000"	Adds to	BC	Soffit
Tapered(psf)	S(1.15)	27 to 0	0 to 0	5.500" to 6' 11.500"	Adds to	TC	Tapered Drift (Left)
Tapered(psf)	S(1.15)	0 to 27	0 to 0	33' 0.000" to 39' 6.000"	Adds to	TC	Tapered Drift (Right)
Point(lbs)	S(1.15)	0	241	17' 10.000"	Adds to	TC, on chord(s)	AC-3 (2402#/10)
Point(lbs)	S(1.15)	0	241	24' 8.000"	Adds to	TC, on chord(s)	AC-3 (2402#/10)

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LOAD GROUP #4 @ 28.500" O.C.-12th from Right - Condensers

TYPE	CLASS	LIVE	DEAD	LOCATION(1)	APPL	APPLIED TO	COMMENT
Uniform(psf)	W(1.60)	20.6	0	2.000" to 39' 11.000"	Adds to	TC	Wind Down ULT
Strap(lbs)	W(1.60)	-1680	0	Left End	Adds to	TC	Axial Load ULT
Strap(lbs)	W(1.60)	-1680	0	Right End	Adds to	TC	Axial Load ULT
Point(lbs)	W(1.60)	672	0	5.500"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	W(1.60)	672	0	39' 8.500"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	W(1.60)	-672	0	11.330"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	W(1.60)	-672	0	39' 2.670"	Adds to	TC, on chord(s)	Eccentric Load ULT
Tapered(psf)	S(1.15)	27 to 0	0 to 0	5.500" to 6' 11.500"	Adds to	TC	Tapered Drift (Left)
Tapered(psf)	S(1.15)	0 to 27	0 to 0	33' 0.000" to 39' 6.000"	Adds to	TC	Tapered Drift (Right)
Point(lbs)	S(1.15)	0	170	6' 7.000"	Adds to	TC, on chord(s)	Condenser (340#/2)
Point(lbs)	S(1.15)	0	170	10' 2.000"	Adds to	TC, on chord(s)	Condenser (340#/2)
Point(plf)	W(1.60)	584	0	3' 10.000"	Adds to	TC, on chord(s)	Parapet Brace - KN6

LOAD GROUP #5 @ 25.500" O.C.-10th from Right - AC#4 & Condensers

TYPE	CLASS	LIVE	DEAD	LOCATION(1)	APPL	APPLIED TO	COMMENT
Uniform(psf)	W(1.60)	20.6	0	2.000" to 39' 11.000"	Adds to	TC	Wind Down ULT
Strap(lbs)	W(1.60)	-1680	0	Left End	Adds to	TC	Axial Load ULT
Strap(lbs)	W(1.60)	-1680	0	Right End	Adds to	TC	Axial Load ULT
Point(lbs)	W(1.60)	672	0	5.500"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	W(1.60)	672	0	39' 8.500"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	W(1.60)	-672	0	11.330"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	W(1.60)	-672	0	39' 2.670"	Adds to	TC, on chord(s)	Eccentric Load ULT
Tapered(psf)	S(1.15)	27 to 0	0 to 0	5.500" to 6' 11.500"	Adds to	TC	Tapered Drift (Left)
Tapered(psf)	S(1.15)	0 to 27	0 to 0	33' 0.000" to 39' 6.000"	Adds to	TC	Tapered Drift (Right)
Point(lbs)	S(1.15)	0	184	6' 7.000"	Adds to	TC, on chord(s)	Condenser (340#/2)
Point(lbs)	S(1.15)	0	170	10' 2.000"	Adds to	TC, on chord(s)	Condenser (340#/2)
Point(lbs)	S(1.15)	0	250	27' 5.000"	Adds to	TC, on chord(s)	AC-4 (999#/4)
Point(lbs)	S(1.15)	0	250	34' 11.000"	Adds to	TC, on chord(s)	AC-4 (999#/4)

LOAD GROUP #6 @ 22.500" O.C.-S1W - single of double truss

TYPE	CLASS	LIVE	DEAD	LOCATION(1)	APPL	APPLIED TO	COMMENT
Uniform(psf)	W(1.60)	20.6	0	2.000" to 39' 11.000"	Adds to	TC	Wind Down ULT
Strap(lbs)	W(1.60)	-1680	0	Left End	Adds to	TC	Axial Load ULT
Strap(lbs)	W(1.60)	-1680	0	Right End	Adds to	TC	Axial Load ULT
Point(lbs)	W(1.60)	672	0	5.500"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	W(1.60)	672	0	39' 8.500"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	W(1.60)	-672	0	11.330"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	W(1.60)	-672	0	39' 2.670"	Adds to	TC, on chord(s)	Eccentric Load ULT
Tapered(psf)	S(1.15)	27 to 0	0 to 0	5.500" to 6' 11.500"	Adds to	TC	Tapered Drift (Left)
Tapered(psf)	S(1.15)	0 to 27	0 to 0	33' 0.000" to 39' 6.000"	Adds to	TC	Tapered Drift (Right)
Point(lbs)	S(1.15)	0	184	6' 7.000"	Adds to	TC, on chord(s)	Condenser (340#/2)
Point(lbs)	S(1.15)	0	170	10' 2.000"	Adds to	TC, on chord(s)	Condenser (340#/2)
Point(lbs)	S(1.15)	0	250	27' 5.000"	Adds to	TC, on chord(s)	AC-4 (999#/4)
Point(lbs)	S(1.15)	0	250	34' 11.000"	Adds to	TC, on chord(s)	AC-4 (999#/4)
Point(lbs)	S(1.15)	0	100	22' 8.500"	Adds to	TC, on chord(s)	Roof Hatch (200#/2)

LOAD GROUP #7 @ 32.000" O.C.-22 from LEFT - AC#2

TYPE	CLASS	LIVE	DEAD	LOCATION(1)	APPL	APPLIED TO	COMMENT
Uniform(psf)	W(1.60)	20.6	0	2.000" to 39' 11.000"	Adds to	TC	Wind Down ULT
Strap(lbs)	W(1.60)	-1680	0	Left End	Adds to	TC	Axial Load ULT
Strap(lbs)	W(1.60)	-1680	0	Right End	Adds to	TC	Axial Load ULT
Point(lbs)	W(1.60)	672	0	5.500"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	W(1.60)	672	0	39' 8.500"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	W(1.60)	-672	0	11.330"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	W(1.60)	-672	0	39' 2.670"	Adds to	TC, on chord(s)	Eccentric Load ULT
Uniform(psf)	S(1.15)	0	6	19' 1.000" to 23' 5.500"	Adds to	BC	Soffit
Tapered(psf)	S(1.15)	27 to 0	0 to 0	5.500" to 6' 11.500"	Adds to	TC	Tapered Drift (Left)
Tapered(psf)	S(1.15)	0 to 27	0 to 0	33' 0.000" to 39' 6.000"	Adds to	TC	Tapered Drift (Right)
Point(lbs)	S(1.15)	0	319	11' 2.000"	Adds to	TC, on chord(s)	AC-2 (2552#/8)
Point(lbs)	S(1.15)	0	319	16' 5.500"	Adds to	TC, on chord(s)	AC-2 (2552#/8)

(1) Location is specified from left reference point unless noted otherwise.

(3) All wind (W) loads are Strength based.

SUPPORTS

LEFT SUPPORT (Angle: 0°)
Material: Plate(s)
Bearing Clip: Heavy S-Clip Lateral
Reinforcement: Chord(s) only

RIGHT SUPPORT (Angle: 0°)
Material: Plate(s)
Bearing Clip: Heavy S-Clip Lateral
Reinforcement: Chord(s) only

DESIGN CONTROLS

Truss Member's Critical Design Component Value: 99.3% (Design / Allowable)

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RedOpenWeb™ v5.0.33
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Project: Chick-fil-A #5248
Location: Lee's Summit, MO
Delivery: R1
Del. Desc.: Roof

Type: S1W
Qty: 4
Project Number: 142840

Truss design includes consideration for partial span application live load.

REACTIONS

	LEFT MAXIMUM	LEFT MINIMUM	RIGHT MAXIMUM	RIGHT MINIMUM
Total Load (lbs)	3081 W (1.60)	-1612 W (1.60)	2769 W (1.60)	-833 W (1.60)
Live Load (lbs)	1874	-2242	1461	-1465

DEFLECTIONS & CAMBER

Deflection (Total Load) Span: 1.895" (L/248)
Deflection (Live Load) Span: 0.943" (L/499)

Center Span Camber: 1.186", Matched to S1

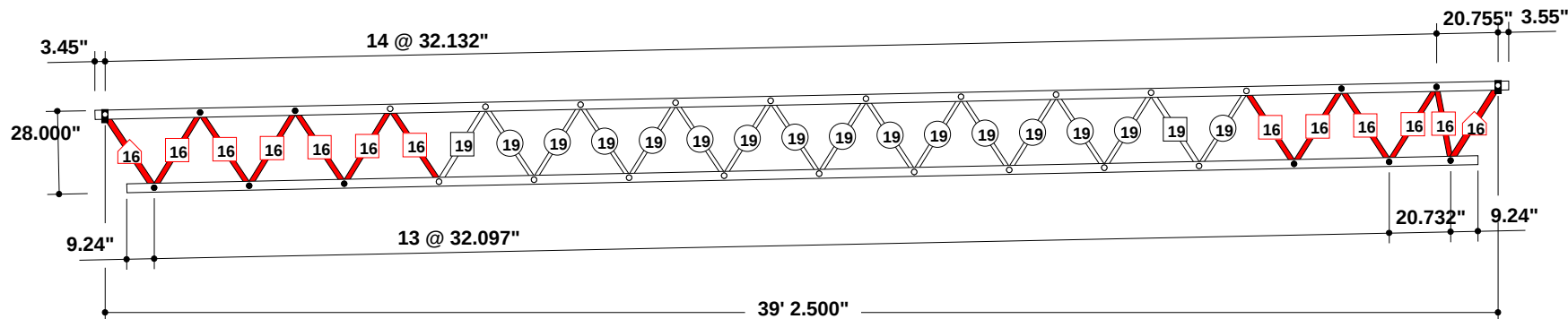
ADDITIONAL NOTES

- IMPORTANT! The analysis presented is output from software developed by RedBuilt LLC. Allowable product values shown are in accordance with current RedBuilt™ materials and code accepted design values. RedBuilt™ Engineering has verified the analysis. The input loads and dimensions have been provided by others and must be verified and approved for the specific application by the design professional for the project. Truss design values have been accepted by the following agencies: ICC ES Report No. ESR-1774 and LABC/LARC Supplement, DSA.
- Allowable Stress Design methodology was used for Code IBC analyzing the RedBuilt™ custom products listed above with chords analyzed using RedBuilt™ analysis.
- Pricing Load = 144.2 plf

OPERATOR INFORMATION

Adam Stritenberger, (740) 368-4227

NOT REVIEWED BY CDA



Red-S™ SERIES LEGEND

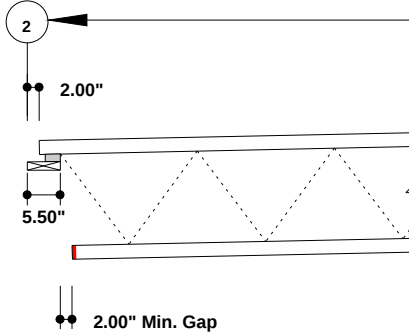
- Heavy S-Clip Lateral @ LEFT TOP PIN# 1.
- Heavy S-Clip Lateral @ RIGHT TOP PIN# 16.
- 3/4" DIA. PIN
- 1/2" DIA. PIN
- WEB, 1" DIA. & WEB GAUGE
- 1 1/4" DIA.
- 1 1/2" DIA.

Project: Chick-fil-A #5248 Truss ID: S1W
Location: Lee's Summit, MO Quantity: 4
Delivery: R1 Project Number: 142840

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THIS PRODUCT MEETS OR EXCEEDS THE SET DESIGN CONTROLS FOR THE APPLICATION AND LOADS LISTED

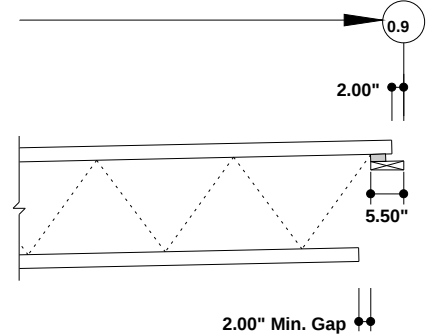


Reference Span = 40' 7.500"

28.000" Red-S™ OPEN WEB TRUSS
Parallel Profile

Clear Span = 39' 8.500"

Top Chord Slope = .25/12



All dimensions are horizontal.

Product diagram is conceptual.

LOADS

Analysis for Open-web Member Supporting SNOW Structural Classification.

Loads (psf): 20 Snow at 115% duration, 8 Dead (top chord), 12 Dead (bottom chord), @ 32.000" O.C. and:

LOAD GROUP #1 @ 32.000" O.C.-Wind Uplift

TYPE	CLASS	LIVE	DEAD	LOCATION(1)	APPL	APPLIED TO	COMMENT
Uniform(psf)	W(1.60)	-43.6	0	2.000" to 39' 11.000"	Adds to	TC	Wind Uplift ULT
Strap(lbs)	W(1.60)	1680	0	Left End	Adds to	TC	Axial Load ULT
Strap(lbs)	W(1.60)	1680	0	Right End	Adds to	TC	Axial Load ULT
Point(lbs)	W(1.60)	-672	0	5.500"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	W(1.60)	-672	0	39' 8.500"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	W(1.60)	672	0	11.330"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	W(1.60)	672	0	39' 2.670"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(plf)	W(1.60)	-584	0	3' 10.000"	Adds to	TC, on chord(s)	Brace KN6 (ULT)

LOAD GROUP #2 @ 32.000" O.C.-16/17th from Left - Condensers, Soffit

TYPE	CLASS	LIVE	DEAD	LOCATION(1)	APPL	APPLIED TO	COMMENT
Uniform(psf)	W(1.60)	20.6	0	2.000" to 39' 11.000"	Adds to	TC	Wind Down ULT
Strap(lbs)	W(1.60)	-1680	0	Left End	Adds to	TC	Axial Load ULT
Strap(lbs)	W(1.60)	-1680	0	Right End	Adds to	TC	Axial Load ULT
Point(lbs)	W(1.60)	672	0	5.500"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	W(1.60)	672	0	39' 8.500"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	W(1.60)	-672	0	11.330"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	W(1.60)	-672	0	39' 2.670"	Adds to	TC, on chord(s)	Eccentric Load ULT
Uniform(psf)	S(1.15)	0	6	7.500" to 23' 6.000"	Adds to	BC	Soffit
Tapered(psf)	S(1.15)	27 to 0	0 to 0	5.500" to 6' 11.500"	Adds to	TC	Tapered Drift (Left)
Tapered(psf)	S(1.15)	0 to 27	0 to 0	33' 0.000" to 39' 6.000"	Adds to	TC	Tapered Drift (Right)
Point(lbs)	S(1.15)	0	170	5' 9.000"	Adds to	TC, on chord(s)	Condenser (340#/2)
Point(lbs)	S(1.15)	0	170	10' 9.000"	Adds to	TC, on chord(s)	Condenser (340#/2)

LOAD GROUP #3 @ 33.500" O.C.-11th from LEFT - AC#3

TYPE	CLASS	LIVE	DEAD	LOCATION(1)	APPL	APPLIED TO	COMMENT
Uniform(psf)	W(1.60)	20.6	0	2.000" to 39' 11.000"	Adds to	TC	Wind Down ULT
Strap(lbs)	W(1.60)	-1680	0	Left End	Adds to	TC	Axial Load ULT
Strap(lbs)	W(1.60)	-1680	0	Right End	Adds to	TC	Axial Load ULT
Point(lbs)	W(1.60)	672	0	5.500"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	W(1.60)	672	0	39' 8.500"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	W(1.60)	-672	0	11.330"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	W(1.60)	-672	0	39' 2.670"	Adds to	TC, on chord(s)	Eccentric Load ULT
Uniform(psf)	S(1.15)	0	6	7.500" to 23' 6.000"	Adds to	BC	Soffit
Tapered(psf)	S(1.15)	27 to 0	0 to 0	5.500" to 6' 11.500"	Adds to	TC	Tapered Drift (Left)
Tapered(psf)	S(1.15)	0 to 27	0 to 0	33' 0.000" to 39' 6.000"	Adds to	TC	Tapered Drift (Right)
Point(lbs)	S(1.15)	0	241	17' 10.000"	Adds to	TC, on chord(s)	AC-3 (2402#/10)
Point(lbs)	S(1.15)	0	241	24' 8.000"	Adds to	TC, on chord(s)	AC-3 (2402#/10)

NOT REVIEWED BY CDA



Project: Chick-fil-A #5248
Location: Lee's Summit, MO
Delivery: R1
Del. Desc.: Roof

Type: S2
Qty: 8
Project Number: 142840

LOAD GROUP #4 @ 32.000" O.C.-21st from LEFT - AC#2

TYPE	CLASS	LIVE	DEAD	LOCATION(1)	APPL	APPLIED TO	COMMENT
Uniform(psf)	W(1.60)	20.6	0	2.000" to 39' 11.000"	Adds to	TC	Wind Down ULT
Strap(lbs)	W(1.60)	-1680	0	Left End	Adds to	TC	Axial Load ULT
Strap(lbs)	W(1.60)	-1680	0	Right End	Adds to	TC	Axial Load ULT
Point(lbs)	W(1.60)	672	0	5.500"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	W(1.60)	672	0	39' 8.500"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	W(1.60)	-672	0	11.330"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	W(1.60)	-672	0	39' 2.670"	Adds to	TC, on chord(s)	Eccentric Load ULT
Uniform(psf)	S(1.15)	0	6	19' 1.000" to 23' 5.500"	Adds to	BC	Soffit
Tapered(psf)	S(1.15)	27 to 0	0 to 0	5.500" to 6' 11.500"	Adds to	TC	Tapered Drift (Left)
Tapered(psf)	S(1.15)	0 to 27	0 to 0	33' 0.000" to 39' 6.000"	Adds to	TC	Tapered Drift (Right)
Point(lbs)	S(1.15)	0	319	11' 2.000"	Adds to	TC, on chord(s)	AC-2 (2552#/8)
Point(lbs)	S(1.15)	0	319	16' 5.500"	Adds to	TC, on chord(s)	AC-2 (2552#/8)

(1) Location is specified from left reference point unless noted otherwise.

(3) All wind (W) loads are Strength based.

SUPPORTS

LEFT SUPPORT (Angle: 0°)
Material: Plate(s)
Bearing Clip: Heavy S-Clip Lateral
Reinforcement: Chord(s) only

RIGHT SUPPORT (Angle: 0°)
Material: Plate(s)
Bearing Clip: Heavy S-Clip Lateral
Reinforcement: Chord(s) only

DESIGN CONTROLS

Truss Member's Critical Design Component Value: 99.6% (Design / Allowable)
Truss design includes consideration for partial span application live load.

REACTIONS

	LEFT MAXIMUM	LEFT MINIMUM	RIGHT MAXIMUM	RIGHT MINIMUM
Total Load (lbs)	3155 W (1.60)	-1624 W (1.60)	3016 W (1.60)	-806 W (1.60)
Live Load (lbs)	1551	-2260	1532	-1447

DEFLECTIONS & CAMBER

Deflection (Total Load) Span: 2.111" (L/226)
Deflection (Live Load) Span: 0.977" (L/487)

Center Span Camber: 1.217", Matched to S1

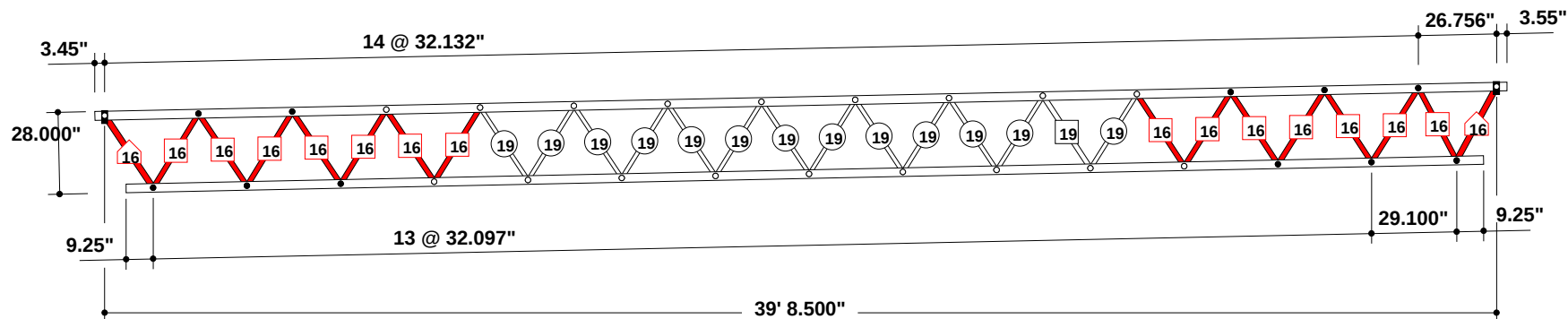
ADDITIONAL NOTES

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- Allowable Stress Design methodology was used for Code IBC analyzing the RedBuilt™ custom products listed above with chords analyzed using RedBuilt™ analysis.
- Pricing Load = 153.1 plf

OPERATOR INFORMATION

Adam Stritenberger, (740) 368-4227

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Red-S™ SERIES LEGEND

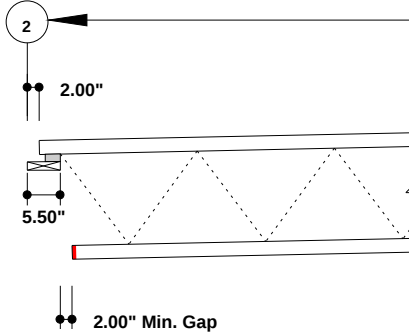
- Heavy S-Clip Lateral @ LEFT TOP PIN# 1.
- Heavy S-Clip Lateral @ RIGHT TOP PIN# 16.
- 3/4" DIA. PIN
- 1/2" DIA. PIN
- WEB, 1" DIA. & WEB GAUGE
- 1 1/4" DIA.
- 1 1/2" DIA.

Project: Chick-fil-A #5248 Truss ID: S2
Location: Lee's Summit, MO Quantity: 8
Delivery: R1 Project Number: 142840

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RedLam™, RedBuilt™ is a trademark of RedBuilt LLC, Boise, Idaho, USA.

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THIS PRODUCT MEETS OR EXCEEDS THE SET DESIGN CONTROLS FOR THE APPLICATION AND LOADS LISTED



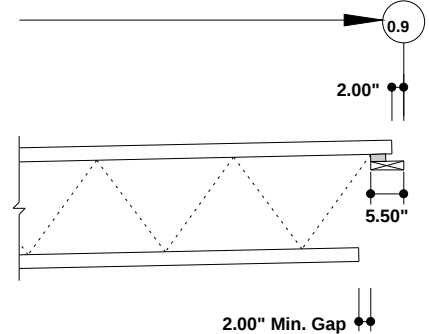
Reference Span = 40' 7.500"

28.000" Red-S™ OPEN WEB TRUSS
Parallel Profile

Clear Span = 39' 8.500"

Top Chord Slope = .25/12

TRUSS SPACING EXCEEDS
32" OC (PER RB ROOF
PLAN).
-BPA



All dimensions are horizontal.

LOADS

Analysis for Open-web Member Supporting SNOW Structural Classification.

Loads (psf): 20 Snow at 115% duration, 8 Dead (top chord), 12 Dead (bottom chord), @ 32.000" O.C. and:

LOAD GROUP #1 @ 32.000" O.C.-Wind Uplift

TYPE	CLASS	LIVE	DEAD	LOCATION(1)	APPL	APPLIED TO	COMMENT
Uniform(psf)	W(1.60)	-43.6	0	2.000" to 39' 11.000"	Adds to	TC	Wind Uplift ULT
Strap(lbs)	W(1.60)	1680	0	Left End	Adds to	TC	Axial Load ULT
Strap(lbs)	W(1.60)	1680	0	Right End	Adds to	TC	Axial Load ULT
Point(lbs)	W(1.60)	-672	0	5.500"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	W(1.60)	-672	0	39' 8.500"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	W(1.60)	672	0	11.330"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	W(1.60)	672	0	39' 2.670"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(plf)	W(1.60)	-584	0	3' 10.000"	Adds to	TC, on chord(s)	Brace KN6 (ULT)

LOAD GROUP #2 @ 32.000" O.C.-16/17th from Left - Condensers, Soffit

TYPE	CLASS	LIVE	DEAD	LOCATION(1)	APPL	APPLIED TO	COMMENT
Uniform(psf)	W(1.60)	20.6	0	2.000" to 39' 11.000"	Adds to	TC	Wind Down ULT
Strap(lbs)	W(1.60)	-1680	0	Left End	Adds to	TC	Axial Load ULT
Strap(lbs)	W(1.60)	-1680	0	Right End	Adds to	TC	Axial Load ULT
Point(lbs)	W(1.60)	672	0	5.500"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	W(1.60)	672	0	39' 8.500"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	W(1.60)	-672	0	11.330"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	W(1.60)	-672	0	39' 2.670"	Adds to	TC, on chord(s)	Eccentric Load ULT
Uniform(psf)	S(1.15)	0	6	7.500" to 23' 6.000"	Adds to	BC	Soffit
Tapered(psf)	S(1.15)	27 to 0	0 to 0	5.500" to 6' 11.500"	Adds to	TC	Tapered Drift (Left)
Tapered(psf)	S(1.15)	0 to 27	0 to 0	33' 0.000" to 39' 6.000"	Adds to	TC	Tapered Drift (Right)
Point(lbs)	S(1.15)	0	170	5' 9.000"	Adds to	TC, on chord(s)	Condenser (340#/2)
Point(lbs)	S(1.15)	0	170	10' 9.000"	Adds to	TC, on chord(s)	Condenser (340#/2)

LOAD GROUP #3 @ 33.500" O.C.-11th from LEFT - AC#3

TYPE	CLASS	LIVE	DEAD	LOCATION(1)	APPL	APPLIED TO	COMMENT
Uniform(psf)	W(1.60)	20.6	0	2.000" to 39' 11.000"	Adds to	TC	Wind Down ULT
Strap(lbs)	W(1.60)	-1680	0	Left End	Adds to	TC	Axial Load ULT
Strap(lbs)	W(1.60)	-1680	0	Right End	Adds to	TC	Axial Load ULT
Point(lbs)	W(1.60)	672	0	5.500"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	W(1.60)	672	0	39' 8.500"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	W(1.60)	-672	0	11.330"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	W(1.60)	-672	0	39' 2.670"	Adds to	TC, on chord(s)	Eccentric Load ULT
Uniform(psf)	S(1.15)	0	6	7.500" to 23' 6.000"	Adds to	BC	Soffit
Tapered(psf)	S(1.15)	27 to 0	0 to 0	5.500" to 6' 11.500"	Adds to	TC	Tapered Drift (Left)
Tapered(psf)	S(1.15)	0 to 27	0 to 0	33' 0.000" to 39' 6.000"	Adds to	TC	Tapered Drift (Right)
Point(lbs)	S(1.15)	0	241	17' 10.000"	Adds to	TC, on chord(s)	AC-3 (2402#/10)
Point(lbs)	S(1.15)	0	241	24' 8.000"	Adds to	TC, on chord(s)	AC-3 (2402#/10)

NOT REVIEWED BY CDA



Project: Chick-fil-A #5248
Location: Lee's Summit, MO
Delivery: R1
Del. Desc.: Roof

Type: S2S
Qty: 3
Project Number: 142840

LOAD GROUP #4 @ 32.000" O.C.-21st from LEFT - AC#2

TYPE	CLASS	LIVE	DEAD	LOCATION(1)	APPL	APPLIED TO	COMMENT
Uniform(psf)	W(1.60)	20.6	0	2.000" to 39' 11.000"	Adds to	TC	Wind Down ULT
Strap(lbs)	W(1.60)	-1680	0	Left End	Adds to	TC	Axial Load ULT
Strap(lbs)	W(1.60)	-1680	0	Right End	Adds to	TC	Axial Load ULT
Point(lbs)	W(1.60)	672	0	5.500"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	W(1.60)	672	0	39' 8.500"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	W(1.60)	-672	0	11.330"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	W(1.60)	-672	0	39' 2.670"	Adds to	TC, on chord(s)	Eccentric Load ULT
Uniform(psf)	S(1.15)	0	6	19' 1.000" to 23' 5.500"	Adds to	BC	Soffit
Tapered(psf)	S(1.15)	27 to 0	0 to 0	5.500" to 6' 11.500"	Adds to	TC	Tapered Drift (Left)
Tapered(psf)	S(1.15)	0 to 27	0 to 0	33' 0.000" to 39' 6.000"	Adds to	TC	Tapered Drift (Right)
Point(lbs)	S(1.15)	0	319	11' 2.000"	Adds to	TC, on chord(s)	AC-2 (2552#/8)
Point(lbs)	S(1.15)	0	319	16' 5.500"	Adds to	TC, on chord(s)	AC-2 (2552#/8)

- (1) Location is specified from left reference point unless noted otherwise.
(3) All wind (W) loads are Strength based.

SUPPORTS

LEFT SUPPORT	(Angle: 0°)	RIGHT SUPPORT	(Angle: 0°)
Material:	Plate(s)	Material:	Plate(s)
Bearing Clip:	Heavy S-Clip Lateral	Bearing Clip:	Heavy S-Clip Lateral
Reinforcement:	Chord(s) only	Reinforcement:	Chord(s) only

DESIGN CONTROLS

Truss Member's Critical Design Component Value: 99.6% (Design / Allowable)
Truss design includes consideration for partial span application live load.

REACTIONS

	LEFT MAXIMUM	LEFT MINIMUM	RIGHT MAXIMUM	RIGHT MINIMUM
Total Load (lbs)	3155 W (1.60)	-1624 W (1.60)	3016 W (1.60)	-806 W (1.60)
Live Load (lbs)	1551	-2260	1532	-1447

DEFLECTIONS & CAMBER

Deflection (Total Load) Span: 2.111" (L/226)
Deflection (Live Load) Span: 0.977" (L/487)

Center Span Camber: 1.217", Matched to S2

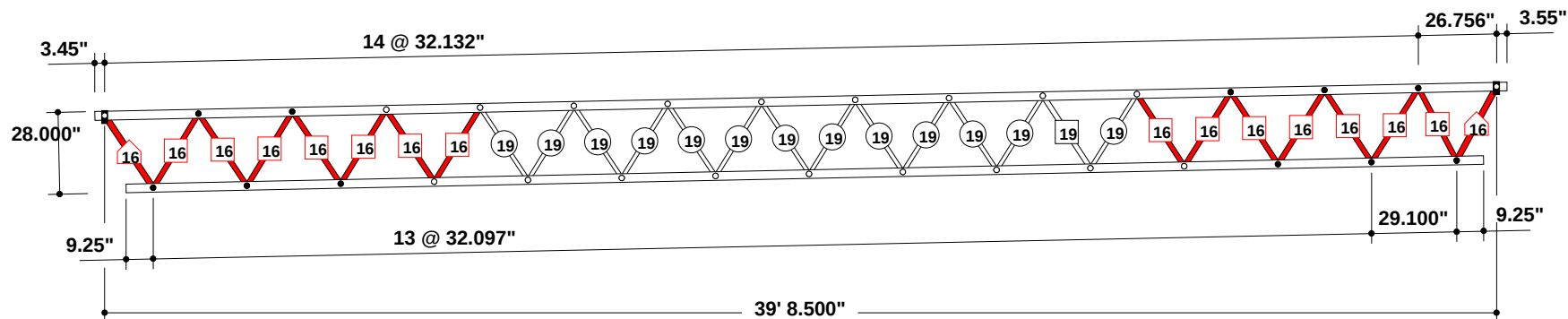
ADDITIONAL NOTES

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- Allowable Stress Design methodology was used for Code IBC analyzing the RedBuilt™ custom products listed above with chords analyzed using RedBuilt™ analysis.
- Pricing Load = 153.1 plf

OPERATOR INFORMATION

Adam Stritenberger, (740) 368-4227

NOT REVIEWED BY CDA



Left First Web Distance: 16.066"
 Top Chord Material: 2- 1.50X 2.3" RedLam™ LVL
 Bottom Chord Material: 2- 1.50X 2.3" RedLam™ LVL
 Camber: 1.217"
 Bottom Chord Slope: 0.250/12

Red-S™ SERIES LEGEND

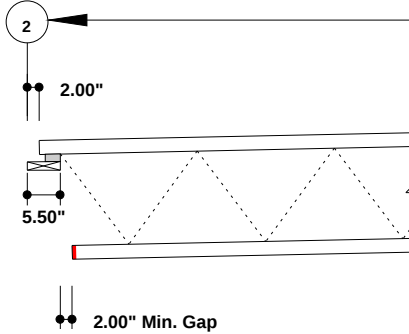
- Heavy S-Clip Lateral @ LEFT TOP PIN# 1.
 Heavy S-Clip Lateral @ RIGHT TOP PIN# 16.
- 3/4" DIA. PIN
- WEB, 1" DIA. & WEB GAUGE
- 1 1/2" DIA.
- 1/2" DIA. PIN
- 1 1/4" DIA.

Project: Chick-fil-A #5248	Truss ID: S2S
Location: Lee's Summit, MO	Quantity: 3
Delivery: R1	Project Number: 142840

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 RedLam™, RedBuilt™ is a trademark of RedBuilt LLC, Boise, Idaho, USA.

NOT REVIEWED BY CDA

THIS PRODUCT MEETS OR EXCEEDS THE SET DESIGN CONTROLS FOR THE APPLICATION AND LOADS LISTED

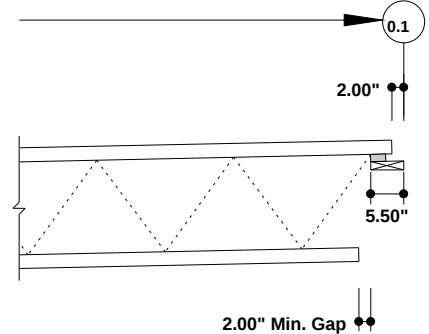


Reference Span = 43' 9.000"

28.000" Red-S™ OPEN WEB TRUSS
Parallel Profile

Clear Span = 42' 10.000"

Top Chord Slope = .25/12



All dimensions are horizontal.

Product diagram is conceptual.

LOADS

Analysis for Open-web Member Supporting SNOW Structural Classification.

Loads (psf): 20 Snow at 115% duration, 8 Dead (top chord), 12 Dead (bottom chord), @ 32.000" O.C. and:

LOAD GROUP #1 @ 32.000" O.C.-Wind Uplift (ULT)

TYPE	CLASS	LIVE	DEAD	LOCATION(1)	APPL	APPLIED TO	COMMENT
Uniform(psf)	W(1.60)	-43.6	0	2.000" to 43' 6.500"	Adds to	TC	Wind Uplift ULT
Strap(lbs)	W(1.60)	1680	0	Left End	Adds to	TC	Axial Load ULT
Strap(lbs)	W(1.60)	1680	0	Right End	Adds to	TC	Axial Load ULT
Point(lbs)	W(1.60)	-672	0	5.500"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	W(1.60)	-672	0	43' 4.000"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	W(1.60)	672	0	11.330"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	W(1.60)	672	0	42' 10.170"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(plf)	W(1.60)	-584	0	3' 10.000"	Adds to	TC, on chord(s)	Brace KN8 (ULT)

LOAD GROUP #2 @ 33.000" O.C.-30th from LEFT - Hood#2 - Hood#3, EF, Condenser

TYPE	CLASS	LIVE	DEAD	LOCATION(1)	APPL	APPLIED TO	COMMENT
Uniform(psf)	W(1.60)	20.6	0	2.000" to 43' 6.500"	Adds to	TC	Wind Down ULT
Strap(lbs)	W(1.60)	-1680	0	Left End	Adds to	TC	Axial Load ULT
Strap(lbs)	W(1.60)	-1680	0	Right End	Adds to	TC	Axial Load ULT
Point(lbs)	W(1.60)	672	0	5.500"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	W(1.60)	672	0	43' 4.000"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	W(1.60)	-672	0	11.330"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	W(1.60)	-672	0	42' 10.170"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	S(1.15)	0	38	13' 9.000"	Adds to	BC, on chord(s)	Hood#3 (150#/4)
Point(lbs)	S(1.15)	0	38	17' 4.000"	Adds to	BC, on chord(s)	Hood#3 (150#/4)
Point(lbs)	S(1.15)	0	66	7.625"	Adds to	BC, on chord(s)	Hood#2 (262#/4)
Point(lbs)	S(1.15)	0	66	3' 10.000"	Adds to	BC, on chord(s)	Hood#2 (262#/4)
Point(plf)	W(1.60)	584	0	3' 10.000"	Adds to	TC, on chord(s)	Brace KN6 (ULT)
Tapered(psf)	S(1.15)	27 to 0	0 to 0	5.500" to 6' 11.500"	Adds to	TC	Tapered Drift (Left)
Tapered(psf)	S(1.15)	0 to 27	0 to 0	36' 7.500" to 43' 1.500"	Adds to	TC	Tapered Drift (Right)
Point(lbs)	S(1.15)	0	255	11' 5.000"	Adds to	TC, on chord(s)	EF (510#/2)
Point(lbs)	S(1.15)	0	170	20' 6.000"	Adds to	TC, on chord(s)	Condenser (340#/2)
Uniform(plf)	S(1.15)	0	6	19' 1.000" to 21' 1.000"	Adds to	BC	Soffit

LOAD GROUP #3 @ 32.000" O.C.-15th-20th from Right - AC-1, Hoods

TYPE	CLASS	LIVE	DEAD	LOCATION(1)	APPL	APPLIED TO	COMMENT
Uniform(psf)	W(1.60)	20.6	0	2.000" to 43' 6.500"	Adds to	TC	Wind Down ULT
Strap(lbs)	W(1.60)	-1680	0	Left End	Adds to	TC	Axial Load ULT
Strap(lbs)	W(1.60)	-1680	0	Right End	Adds to	TC	Axial Load ULT
Point(lbs)	W(1.60)	672	0	5.500"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	W(1.60)	672	0	43' 4.000"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	W(1.60)	-672	0	11.330"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	W(1.60)	-672	0	42' 10.170"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	S(1.15)	0	282	7.625"	Adds to	BC, on chord(s)	Hood#1R/L (996#/6+462#/4)
Point(lbs)	S(1.15)	0	282	3' 2.000"	Adds to	BC, on chord(s)	Hood#1R/L (996#/6+462#/4)
Point(plf)	W(1.60)	584	0	4' 0.000"	Adds to	TC, on chord(s)	Brace KN6 (ULT)
Tapered(psf)	S(1.15)	27 to 0	0 to 0	5.500" to 6' 11.500"	Adds to	TC	Tapered Drift (Left)
Tapered(psf)	S(1.15)	0 to 27	0 to 0	36' 7.500" to 43' 1.500"	Adds to	TC	Tapered Drift (Right)
Point(lbs)	S(1.15)	0	256	13' 8.000"	Adds to	TC, on chord(s)	AC-1 (2552#/10)
Point(lbs)	S(1.15)	0	256	20' 9.000"	Adds to	TC, on chord(s)	AC-1 (2552#/10)

(1) Location is specified from left reference point unless noted otherwise.



Project: Chick-fil-A #5248
Location: Lee's Summit, MO
Delivery: R1
Del. Desc.: Roof

Type: S3
Qty: 16
Project Number: 142840

(3) All wind (W) loads are Strength based.

SUPPORTS

LEFT SUPPORT	(Angle: 0°)	RIGHT SUPPORT	(Angle: 0°)
Material:	Plate(s)	Material:	Plate(s)
Bearing Clip:	Heavy S-Clip Lateral	Bearing Clip:	Heavy S-Clip Lateral
Reinforcement:	Chord(s) only	Reinforcement:	Chord(s) only

DESIGN CONTROLS

Truss Member's Critical Design Component Value: 99.3% (Design / Allowable)
Truss design includes consideration for partial span application live load.

REACTIONS

	LEFT MAXIMUM	LEFT MINIMUM	RIGHT MAXIMUM	RIGHT MINIMUM
Total Load (lbs)	4227 W (1.60)	-1687 W (1.60)	3053 W (1.60)	-895 W (1.60)
Live Load (lbs)	2224	-2375	1685	-1585

DEFLECTIONS & CAMBER

Deflection (Total Load) Span: 2.652" (L/194)
Deflection (Live Load) Span: 1.376" (L/374)

Center Span Camber: 1.416", Recommended

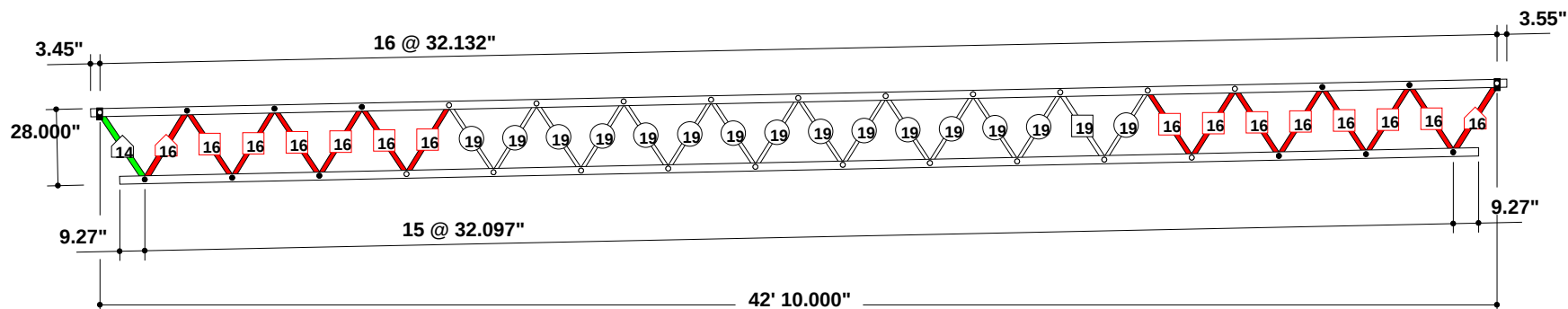
ADDITIONAL NOTES

- IMPORTANT! The analysis presented is output from software developed by RedBuilt LLC. Allowable product values shown are in accordance with current RedBuilt™ materials and code accepted design values. RedBuilt™ Engineering has verified the analysis. The input loads and dimensions have been provided by others and must be verified and approved for the specific application by the design professional for the project. Truss design values have been accepted by the following agencies: ICC ES Report No. ESR-1774 and LABC/LARC Supplement, DSA.
- Allowable Stress Design methodology was used for Code IBC analyzing the RedBuilt™ custom products listed above with chords analyzed using RedBuilt™ analysis.
- Pricing Load = 166.6 plf

OPERATOR INFORMATION

Adam Stritenberger, (740) 368-4227

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Red-S™ SERIES LEGEND

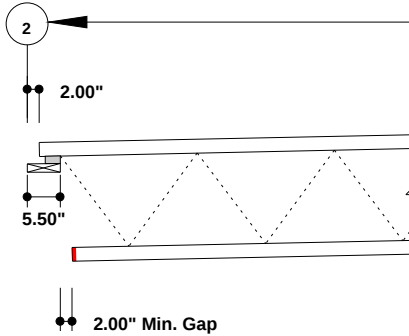
- Heavy S-Clip Lateral @ LEFT TOP PIN# 1.
- Heavy S-Clip Lateral @ RIGHT TOP PIN# 17.
- 3/4" DIA. PIN
- 1/2" DIA. PIN
- WEB, 1" DIA. & WEB GAUGE
- 1 1/4" DIA.
- 1 1/2" DIA.

Project: Chick-fil-A #5248 Truss ID: S3
Location: Lee's Summit, MO Quantity: 16
Delivery: R1 Project Number: 142840

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THIS PRODUCT MEETS OR EXCEEDS THE SET DESIGN CONTROLS FOR THE APPLICATION AND LOADS LISTED

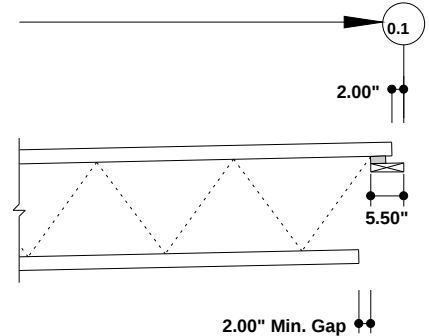


Reference Span = 43' 9.000"

28.000" Red-S™ OPEN WEB TRUSS
Parallel Profile

Clear Span = 42' 10.000"

Top Chord Slope = .25/12



TRUSS SPACING EXCEEDS
32" OC (PER RB ROOF
PLAN).
-BPA

All dimensions are horizontal.

LOADS

Analysis for Open-web Member Supporting SNOW Structural Classification.

Loads (psf): 20 Snow at 115% duration, 8 Dead (top chord), 12 Dead (bottom chord), @ 32.000" O.C. and:

Product diagram is conceptual.

NOT REVIEWED BY CDA

LOAD GROUP #1 @ 33.000" O.C.-Wind Uplift (ULT)

TYPE	CLASS	LIVE	DEAD	LOCATION(1)	APPL	APPLIED TO	COMMENT
Uniform(psf)	W(1.60)	-43.6	0	2.000" to 43' 6.500"	Adds to	TC	Wind Uplift ULT
Strap(lbs)	W(1.60)	1680	0	Left End	Adds to	TC	Axial Load ULT
Strap(lbs)	W(1.60)	1680	0	Right End	Adds to	TC	Axial Load ULT
Point(lbs)	W(1.60)	-672	0	5.500"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	W(1.60)	-672	0	43' 4.000"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	W(1.60)	672	0	11.330"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	W(1.60)	672	0	42' 10.170"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(plf)	W(1.60)	-584	0	3' 10.000"	Adds to	TC, on chord(s)	Brace KN8 (ULT)

LOAD GROUP #2 @ 33.000" O.C.-30th from LEFT - Hood#2 - Hood#3, EF, Condenser

TYPE	CLASS	LIVE	DEAD	LOCATION(1)	APPL	APPLIED TO	COMMENT
Uniform(psf)	W(1.60)	20.6	0	2.000" to 43' 6.500"	Adds to	TC	Wind Down ULT
Strap(lbs)	W(1.60)	-1680	0	Left End	Adds to	TC	Axial Load ULT
Strap(lbs)	W(1.60)	-1680	0	Right End	Adds to	TC	Axial Load ULT
Point(lbs)	W(1.60)	672	0	5.500"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	W(1.60)	672	0	43' 4.000"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	W(1.60)	-672	0	11.330"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	W(1.60)	-672	0	42' 10.170"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	S(1.15)	0	38	13' 9.000"	Adds to	BC, on chord(s)	Hood#3 (150#/4)
Point(lbs)	S(1.15)	0	38	17' 4.000"	Adds to	BC, on chord(s)	Hood#3 (150#/4)
Point(lbs)	S(1.15)	0	66	7.625"	Adds to	BC, on chord(s)	Hood#2 (262#/4)
Point(lbs)	S(1.15)	0	66	3' 10.000"	Adds to	BC, on chord(s)	Hood#2 (262#/4)
Point(plf)	W(1.60)	584	0	3' 10.000"	Adds to	TC, on chord(s)	Brace KN6 (ULT)
Tapered(psf)	S(1.15)	27 to 0	0 to 0	5.500" to 6' 11.500"	Adds to	TC	Tapered Drift (Left)
Tapered(psf)	S(1.15)	0 to 27	0 to 0	36' 7.500" to 43' 1.500"	Adds to	TC	Tapered Drift (Right)
Point(lbs)	S(1.15)	0	255	11' 5.000"	Adds to	TC, on chord(s)	EF (510#/2)
Point(lbs)	S(1.15)	0	170	20' 6.000"	Adds to	TC, on chord(s)	Condenser (340#/2)
Uniform(plf)	S(1.15)	0	6	19' 1.000" to 21' 1.000"	Adds to	BC	Soffit

LOAD GROUP #3 @ 32.000" O.C.-15th-20th from Right - AC-1, Hoods

TYPE	CLASS	LIVE	DEAD	LOCATION(1)	APPL	APPLIED TO	COMMENT
Uniform(psf)	W(1.60)	20.6	0	2.000" to 43' 6.500"	Adds to	TC	Wind Down ULT
Strap(lbs)	W(1.60)	-1680	0	Left End	Adds to	TC	Axial Load ULT
Strap(lbs)	W(1.60)	-1680	0	Right End	Adds to	TC	Axial Load ULT
Point(lbs)	W(1.60)	672	0	5.500"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	W(1.60)	672	0	43' 4.000"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	W(1.60)	-672	0	11.330"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	W(1.60)	-672	0	42' 10.170"	Adds to	TC, on chord(s)	Eccentric Load ULT
Point(lbs)	S(1.15)	0	282	7.625"	Adds to	BC, on chord(s)	Hood#1R/L (996#/6+462#/4)
Point(lbs)	S(1.15)	0	282	3' 2.000"	Adds to	BC, on chord(s)	Hood#1R/L (996#/6+462#/4)
Point(plf)	W(1.60)	584	0	4' 0.000"	Adds to	TC, on chord(s)	Brace KN6 (ULT)
Tapered(psf)	S(1.15)	27 to 0	0 to 0	5.500" to 6' 11.500"	Adds to	TC	Tapered Drift (Left)
Tapered(psf)	S(1.15)	0 to 27	0 to 0	36' 7.500" to 43' 1.500"	Adds to	TC	Tapered Drift (Right)
Point(lbs)	S(1.15)	0	256	13' 8.000"	Adds to	TC, on chord(s)	AC-1 (2552#/10)
Point(lbs)	S(1.15)	0	256	20' 9.000"	Adds to	TC, on chord(s)	AC-1 (2552#/10)

(1) Location is specified from left reference point unless noted otherwise.



RedOpenWeb™ v5.0.33
9/10/2025 8:56:08 AM PAGE 2

Project: Chick-fil-A #5248
Location: Lee's Summit, MO
Delivery: R1
Del. Desc.: Roof

Type: S3S
Qty: 2
Project Number: 142840

(3) All wind (W) loads are Strength based.

SUPPORTS

LEFT SUPPORT	(Angle: 0°)	RIGHT SUPPORT	(Angle: 0°)
Material:	Plate(s)	Material:	Plate(s)
Bearing Clip:	Heavy S-Clip Lateral	Bearing Clip:	Heavy S-Clip Lateral
Reinforcement:	Chord(s) only	Reinforcement:	Chord(s) only

DESIGN CONTROLS

Truss Member's Critical Design Component Value: 99.3% (Design / Allowable)
Truss design includes consideration for partial span application live load.

REACTIONS

	LEFT MAXIMUM	LEFT MINIMUM	RIGHT MAXIMUM	RIGHT MINIMUM
Total Load (lbs)	4227 W (1.60)	-1740 W (1.60)	3053 W (1.60)	-923 W (1.60)
Live Load (lbs)	2224	-2449	1685	-1635

DEFLECTIONS & CAMBER

Deflection (Total Load) Span: 2.652" (L/194)
Deflection (Live Load) Span: 1.376" (L/374)

Center Span Camber: 1.416", Matched to S3

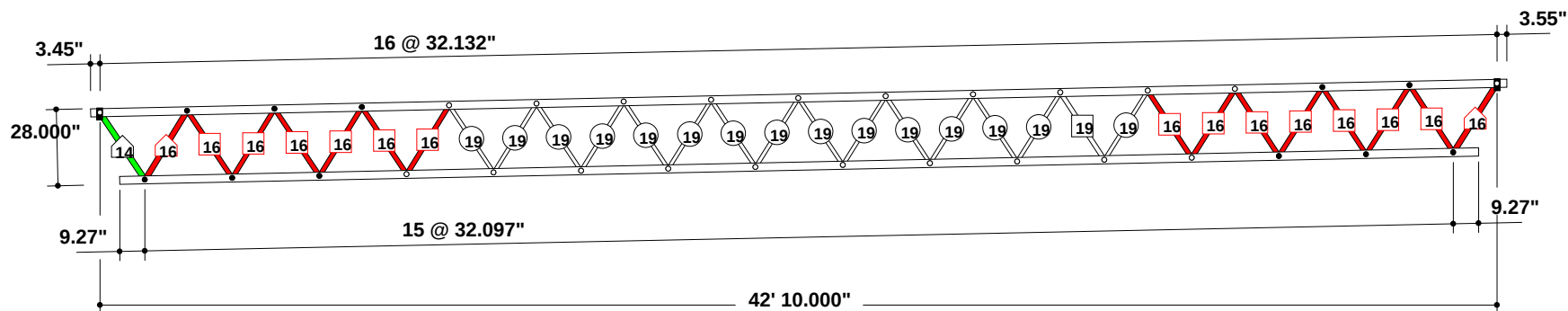
ADDITIONAL NOTES

- IMPORTANT! The analysis presented is output from software developed by RedBuilt LLC. Allowable product values shown are in accordance with current RedBuilt™ materials and code accepted design values. RedBuilt™ Engineering has verified the analysis. The input loads and dimensions have been provided by others and must be verified and approved for the specific application by the design professional for the project. Truss design values have been accepted by the following agencies: ICC ES Report No. ESR-1774 and LABC/LARC Supplement, DSA.
- Allowable Stress Design methodology was used for Code IBC analyzing the RedBuilt™ custom products listed above with chords analyzed using RedBuilt™ analysis.
- Pricing Load = 166.6 plf

OPERATOR INFORMATION

Adam Stritenberger, (740) 368-4227

NOT REVIEWED BY CDA



Red-S™ SERIES LEGEND

- Heavy S-Clip Lateral @ LEFT TOP PIN# 1.
- Heavy S-Clip Lateral @ RIGHT TOP PIN# 17.
- 3/4" DIA. PIN
- 1/2" DIA. PIN
- WEB, 1" DIA. & WEB GAUGE
- 1 1/4" DIA.
- 1 1/2" DIA.

Project: Chick-fil-A #5248 Truss ID: S3S
Location: Lee's Summit, MO Quantity: 2
Delivery: R1 Project Number: 142840

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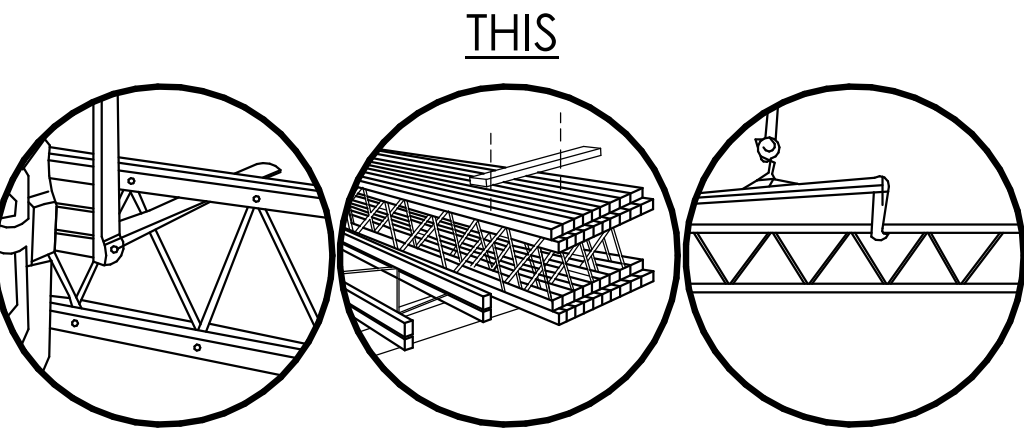
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OPEN-WEB TRUSS INSTALLATION INFORMATION

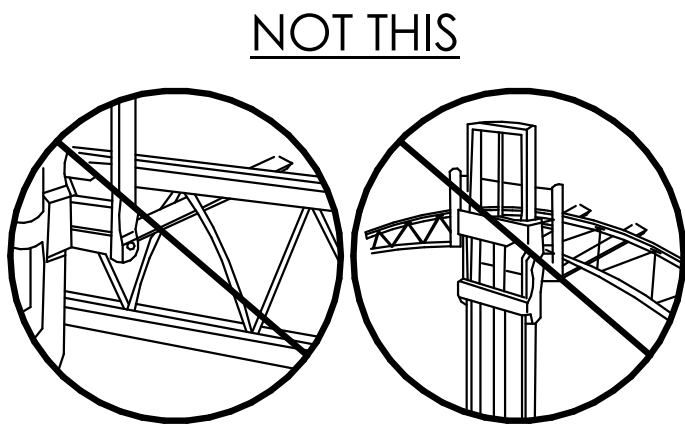
ATTENTION BUILDER
Enclosed is IMPORTANT information on how to safely and properly install RedBuilt™ Joists. Personal injury or death may result from failure to read and follow this information.



1 PRODUCT HANDLING



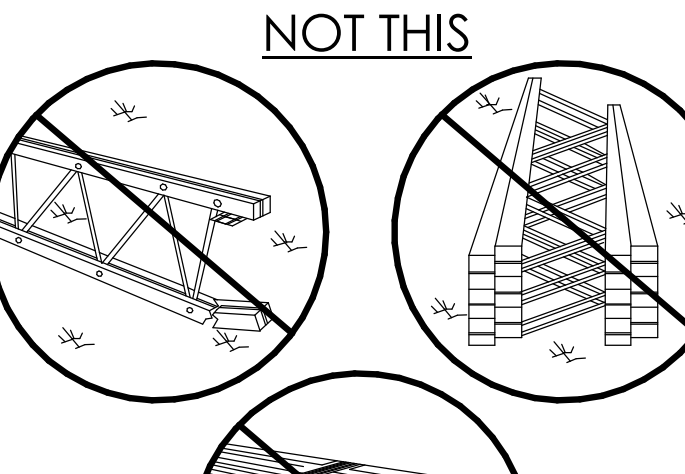
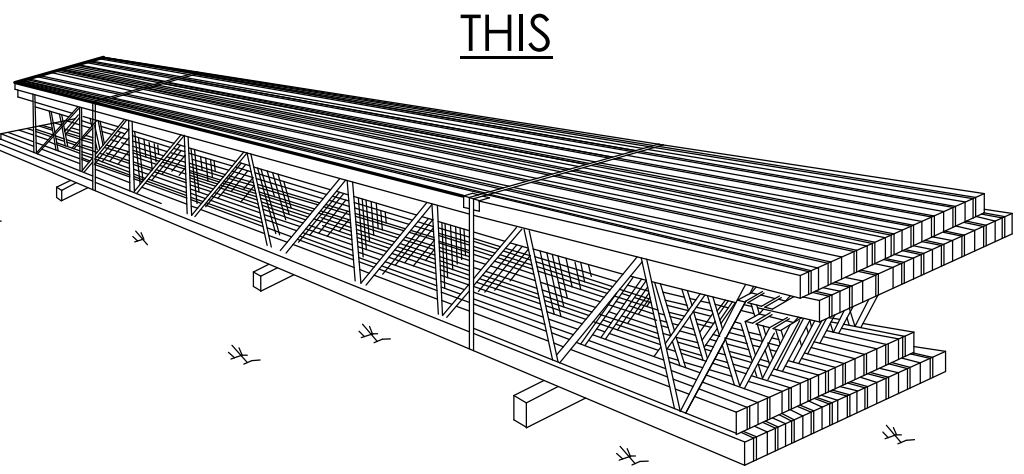
THIS
WARNING
Workers should stay clear when cutting the banding to avoid possible injury from flying banding or toppling trusses.



NOT THIS
CAUTION
DO NOT hit webs with forklift forks. Bent or dented webs must be replaced.

- Trusses will be delivered to the jobsite in bundles of twenty or fewer, banded together for handling and shipment. To avoid damage they should be left in these bundles until they are ready to be installed in the structure.
- Miscellaneous hardware such as bearing angles, lag screws, bolts and nails as required for each specific job will be shipped in bags or boxes with the trusses.
- Bridging material and pre-cut blocking items, if supplied by RedBuilt™, will be bundled and banded.

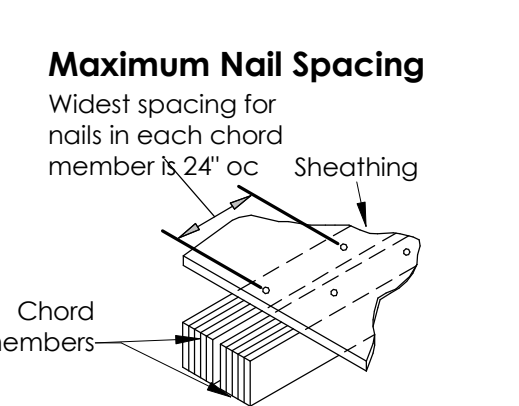
2 PRODUCT STORAGE



Damaged trusses must be repaired or replaced

- Always set truss bundles on stickers placed at the truss pin locations. Never store trusses flat or set trusses directly on the ground or in contact with standing water.
- Cover truss bundles with paper wrap or canvas tarps to protect them from the weather. Do not use plastic covers as they will cause moisture to accumulate on the trusses. Prolonged exposure to the elements harms the appearance and strength of the trusses.

3 NAILING OF SHEATHING TO TOP CHORD MEMBERS



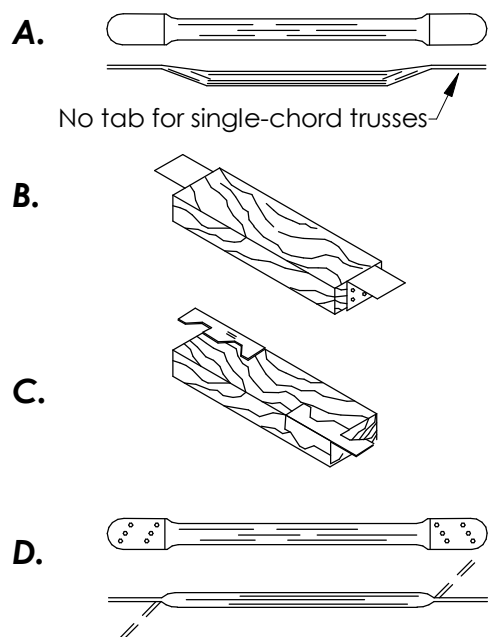
Minimum Nail Spacing

Nail Size	Red-L™ Red-W™	Red-S™	Red-M™ Red-H™	RedLam™LVL Narrow Face
.113" x 2 1/2"	4"	4"	2"	3"
.131" x 2 1/2"	6"	6"	2"	3"
.128" x 3"	6"	6"	2"	3"
.148" x 3"	6"	6"	2 1/2"	4" (2)
.128" x 3 1/4"	6"	6"	2"	3"
.148" x 3 1/4"	6"	6"	2 1/2"	4" (2)
.135" x 3 1/2"	6"	6"	2 1/2"	3"
.148" x 3 1/4"	6"	6"	2 1/2"	4" (2)
.162" x 3 1/2"	8"	8"	4"	8" (3)

- 14 gauge staples may be a direct substitute for 8dx2 1/2" nails if a minimum penetration of 1" into the flange is maintained.
- Minimum spacing must be 5" for 4 rows of nails.
- Spacing may be reduced to 5" where nail penetration does not exceed 1 3/8". If more than one row of nails is used, offset rows at least 1/2" and stagger. Maintain 3/8" minimum edge distance.

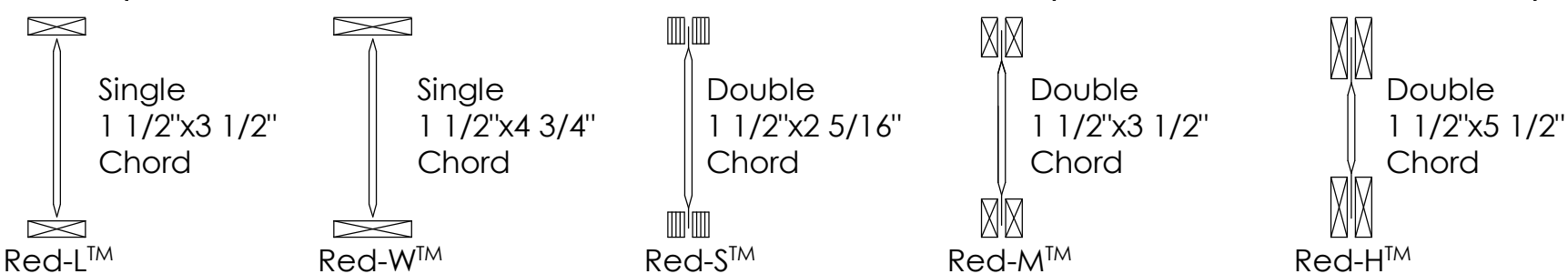
IMPORTANT
Nailing closer than specified may cause the chords to split.

4 MATERIAL IDENTIFICATION

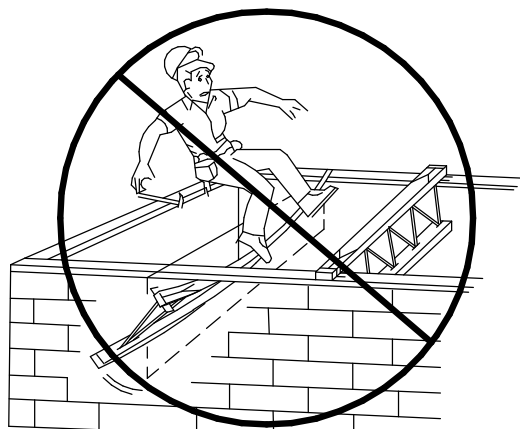


- A. **Strut Bracing** is tubular steel with flattened ends supplied with all open-web trusses (Simpson HRS12 supplied for 12" OC systems). Strut bracing to be installed as each truss is set. See sections 5A - 5D.
- B. **Plywood Edge Blocking** is provided by RedBuilt™ on some projects and used for nailing sheathing edges. Edge blocking does not take the place of strut bracing and will not prevent trusses from bowing. Install edge blocking after strut bracing (installation bracing) is in place and immediately prior to laying sheathing.
- C. **2x4 Starter Struts** supplied by contractor with framing anchors each end (shipped loose) supplied by RedBuilt™. Flatten speed prong and fold portion of vertical tab around end of 2x4. Attach with 6-8dx2 1/2"x1 1/2" nails each end. See sections 5A and 5D.
- D. **Cross Bracing** is provided for most bottom-bearing locations. Cross bracing to be installed as each truss is set. Contractor to bend ends prior to installation.

RedBuilt™ Open-Web Truss Product Sections - Refer to plan for series and depth



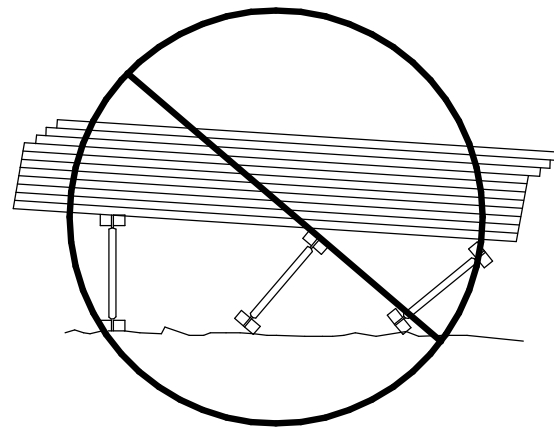
5 INSTALLATION BRACING



DO NOT walk on the trusses until all truss bearings and bracing have been permanently attached. Injury may result.

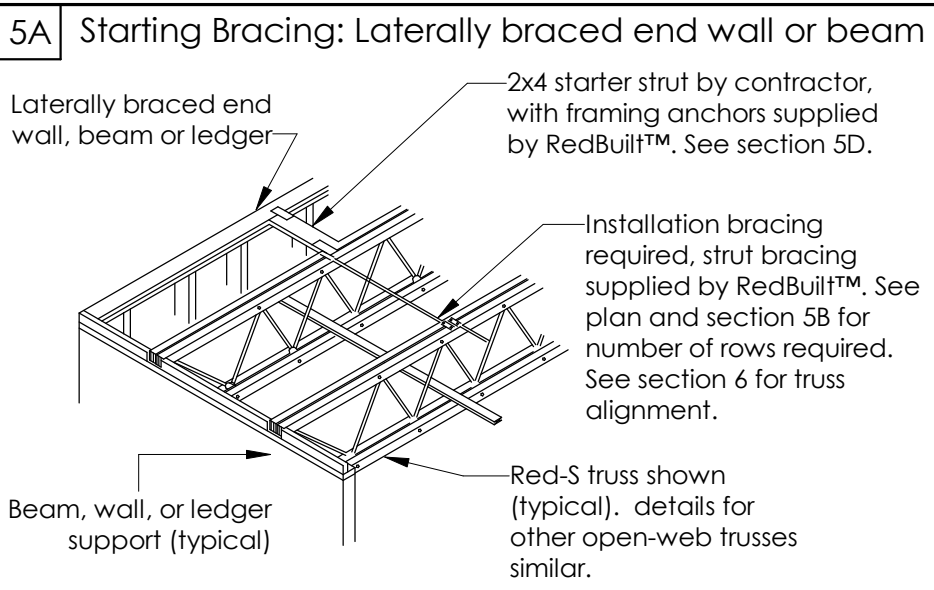
WARNING
Without correctly installed bracing, trusses can bow and roll over, causing death, serious personal injury, or property damage.

NOTICE
Installation bracing and procedures, as well as the safety of workers, are the responsibility of the installer. The installer should make sure that this installation information is understood by all persons involved in the truss installation.

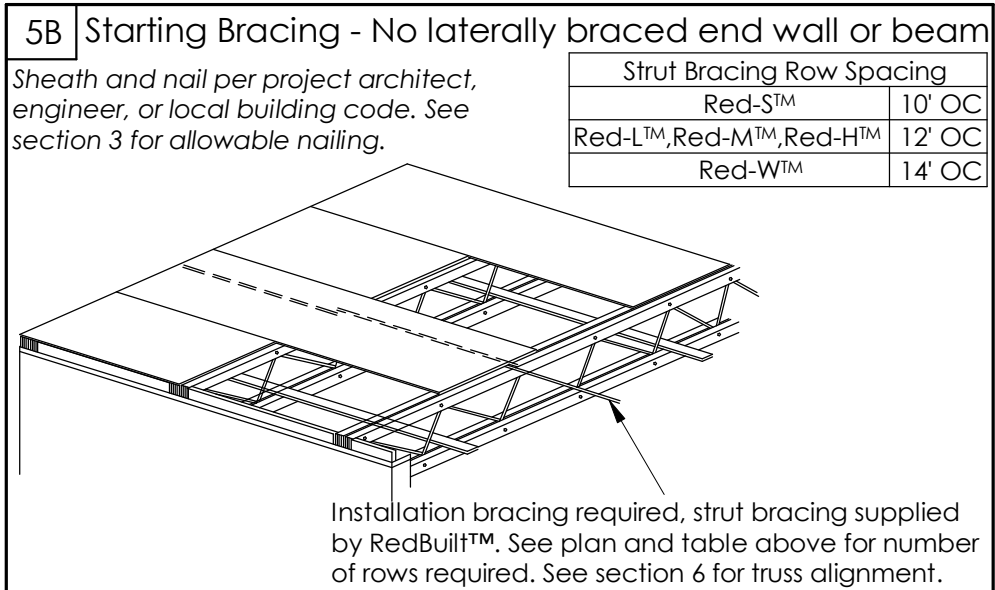


DO NOT stack building materials on trusses before all truss bearings and bracing have been permanently attached. See section 7

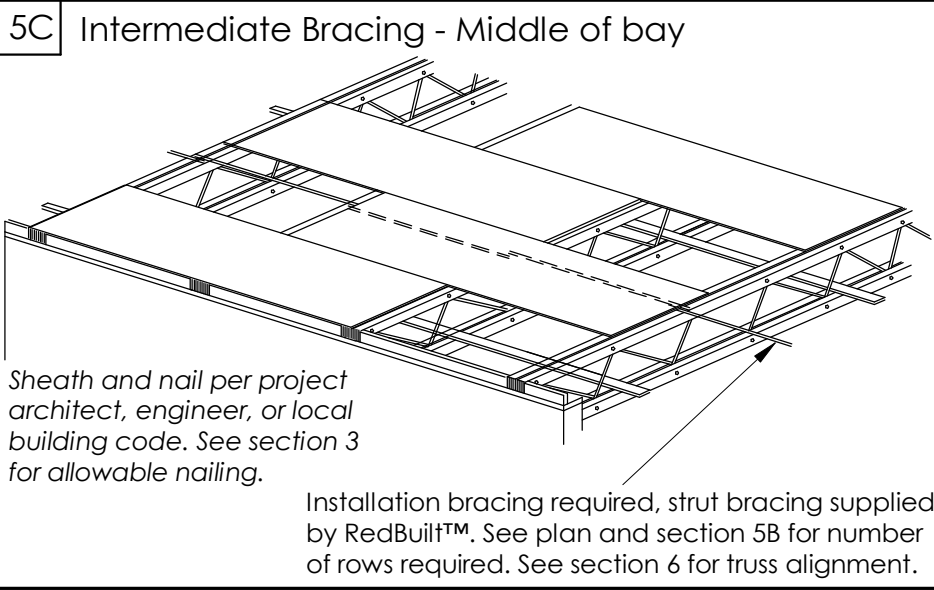
Brace EACH truss as it is placed



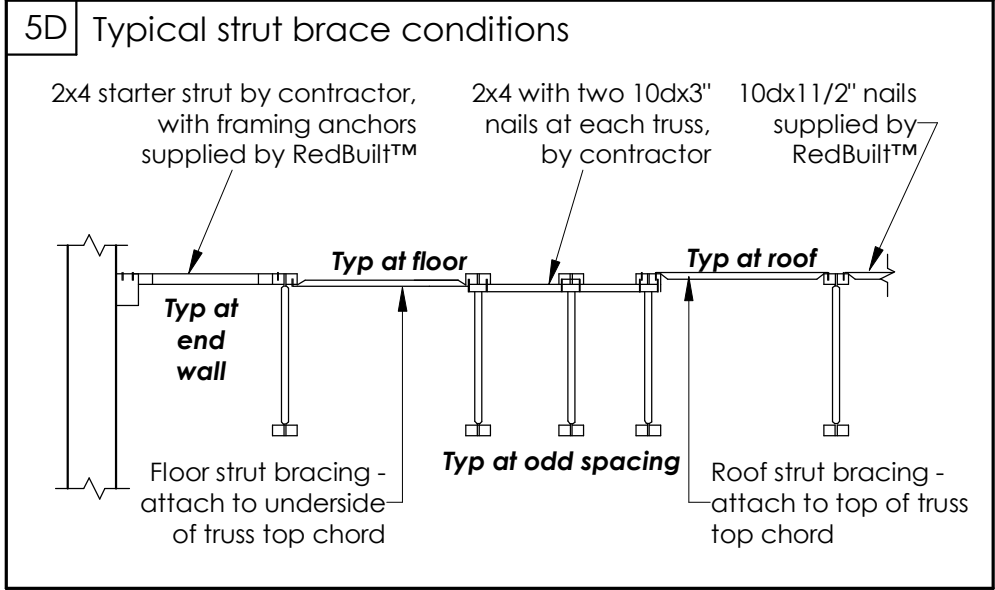
5A Starting Bracing: Laterally braced end wall or beam
Laterally braced end wall, beam or ledger
2x4 starter strut by contractor, with framing anchors supplied by RedBuilt™. See section 5D.
Installation bracing required, strut bracing supplied by RedBuilt™. See plan and section 5B for number of rows required. See section 6 for truss alignment.
Beam, wall, or ledger support (typical)
Red-S truss shown (typical). Details for other open-web trusses similar.



5B Starting Bracing - No laterally braced end wall or beam
Sheath and nail per project architect, engineer, or local building code. See section 3 for allowable nailing.
Strut Bracing Row Spacing:
Red-S™ 10" OC
Red-L™ Red-M™ Red-H™ 12" OC
Red-W™ 14" OC
Installation bracing required, strut bracing supplied by RedBuilt™. See plan and Table above for number of rows required. See section 6 for truss alignment.

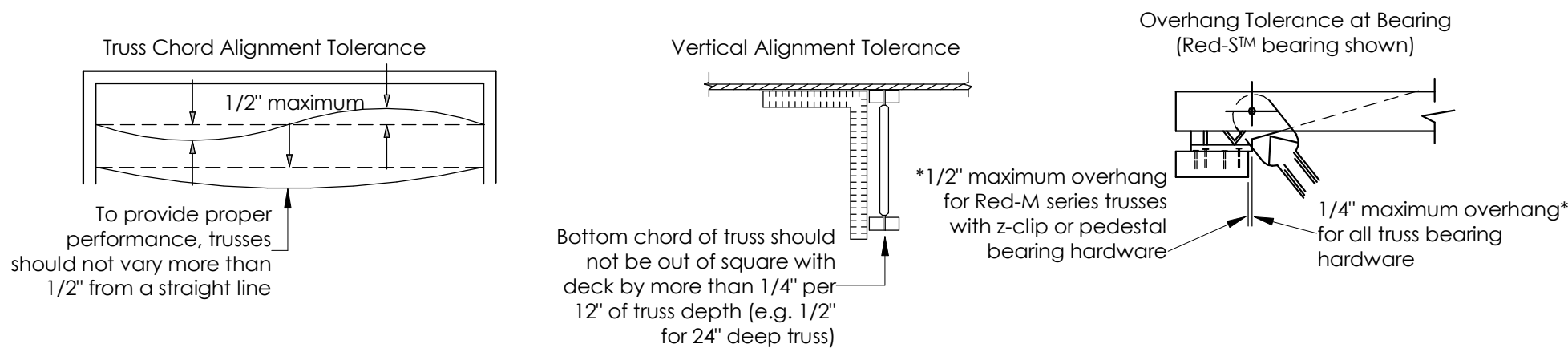


5C Intermediate Bracing - Middle of bay
Sheath and nail per project architect, engineer, or local building code. See section 3 for allowable nailing.
Installation bracing required, strut bracing supplied by RedBuilt™. See plan and section 5B for number of rows required. See section 6 for truss alignment.



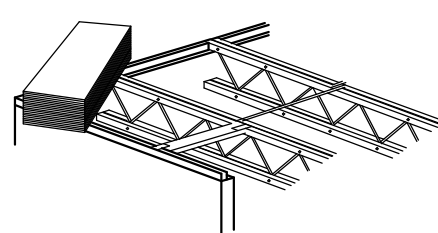
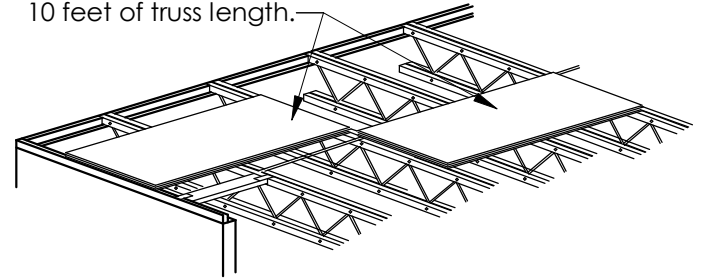
5D Typical strut brace conditions
2x4 starter strut by contractor, with framing anchors supplied by RedBuilt™
2x4 with two 10dx3" nails at each truss, by contractor
10dx11/2" nails supplied by RedBuilt™
Typ at end wall
Typ at floor
Typ at roof
Floor strut bracing - attach to underside of truss top chord
Typ at odd spacing
Roof strut bracing - attach to top of truss top chord

6 INSTALLATION TOLERANCES PERMITTED



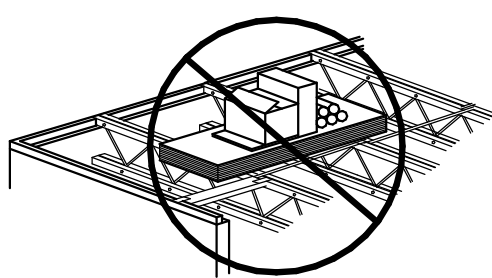
7 STACKING MATERIAL

CAUTION: Maximum of 3 sheets of sheathing per 10 feet of truss length.



THIS

WARNING
DO NOT allow workers or materials on the trusses until all truss bearings and bracing have been permanently attached. See section 5.

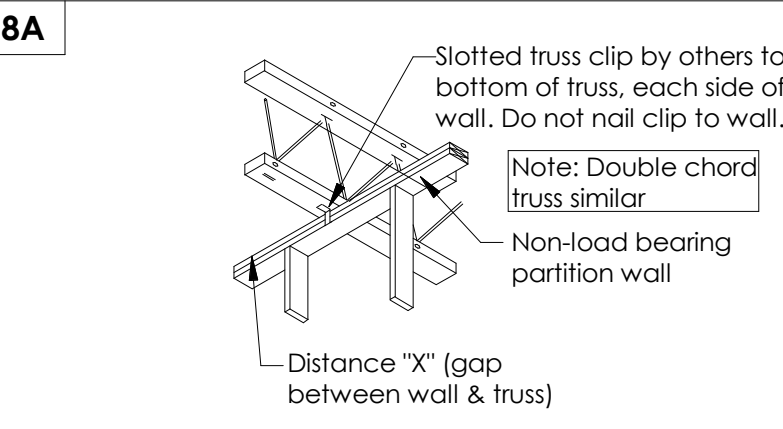


NOT THIS

FIELD MODIFICATION OF TRUSSES NOT PERMITTED

- DO NOT cut, drill or damage the chords or webs.
- DO NOT remove steel pins or webs (even temporarily).
- DO NOT make field modifications to trusses without written approval of RedBuilt™.

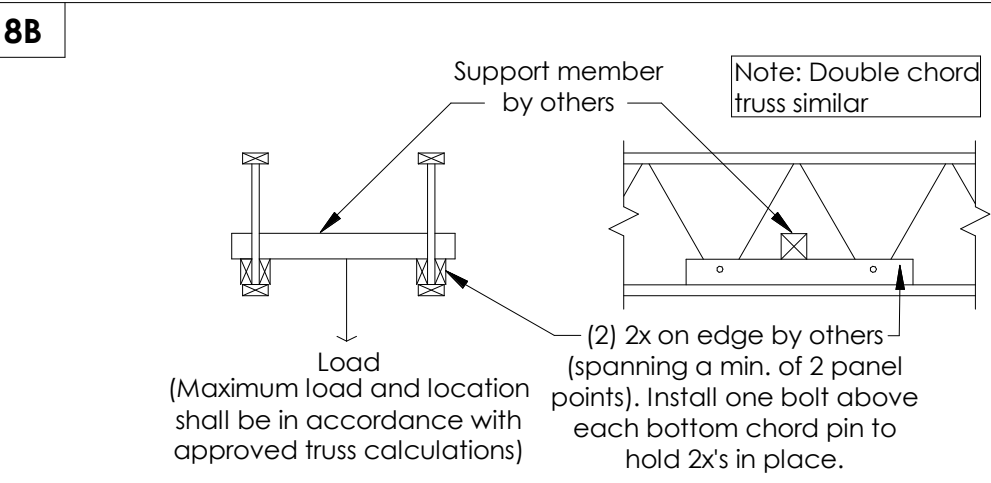
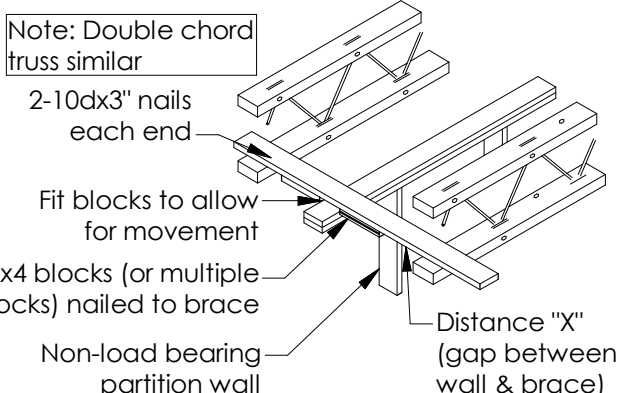
8 STANDARD INSTALLATION DETAILS



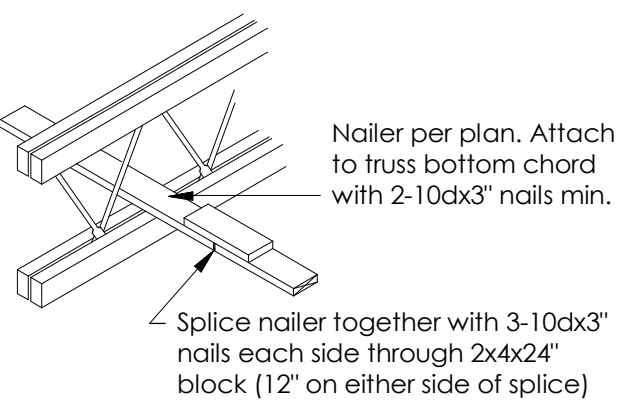
Spacing of clips and blocks per EOR

Distance "X"			
Under Roof		Under Floor	
Span	"X"	Span	"X"
0'-20'	1 1/4"	0'-20'	3/4"
20'-40'	2 1/2"	20'-40'	1 1/4"
40'-60'	4"	40'-60'	2"

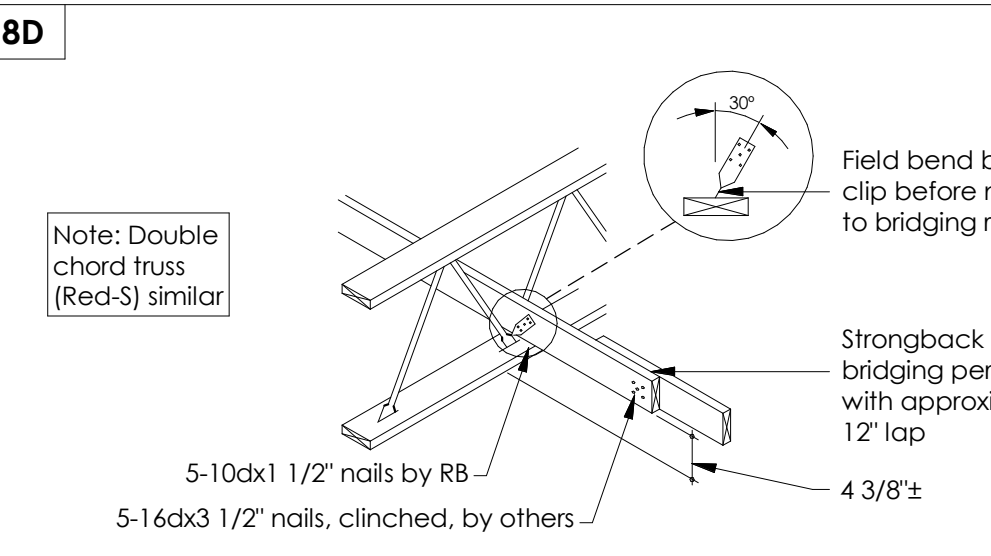
Recommended Attachment for Non-load Bearing Partitions



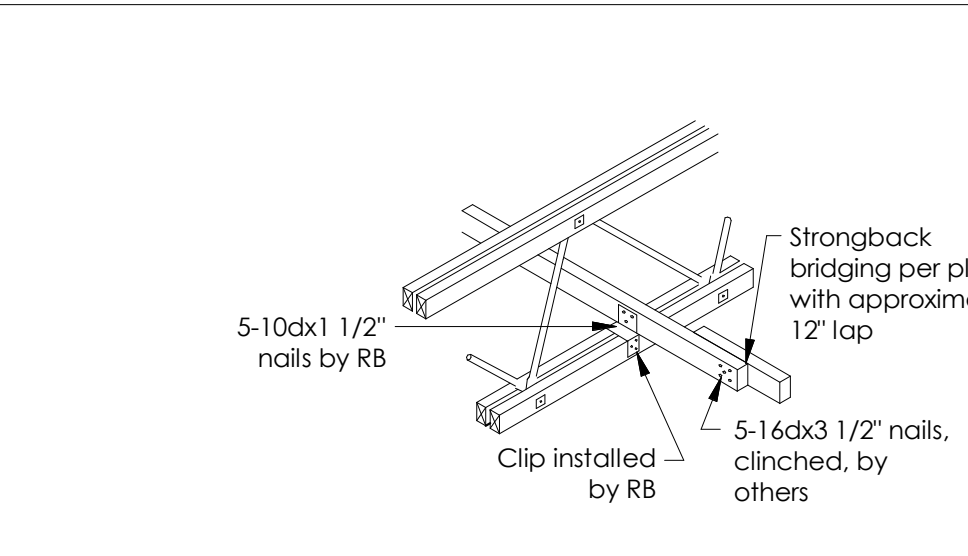
8B Support member by others
Load (Maximum load and location shall be in accordance with approved truss calculations)
(2) 2x on edge by others (spanning a min. of 2 panel points). Install one bolt above each bottom chord pin to hold 2x's in place.
Note: Double chord truss similar



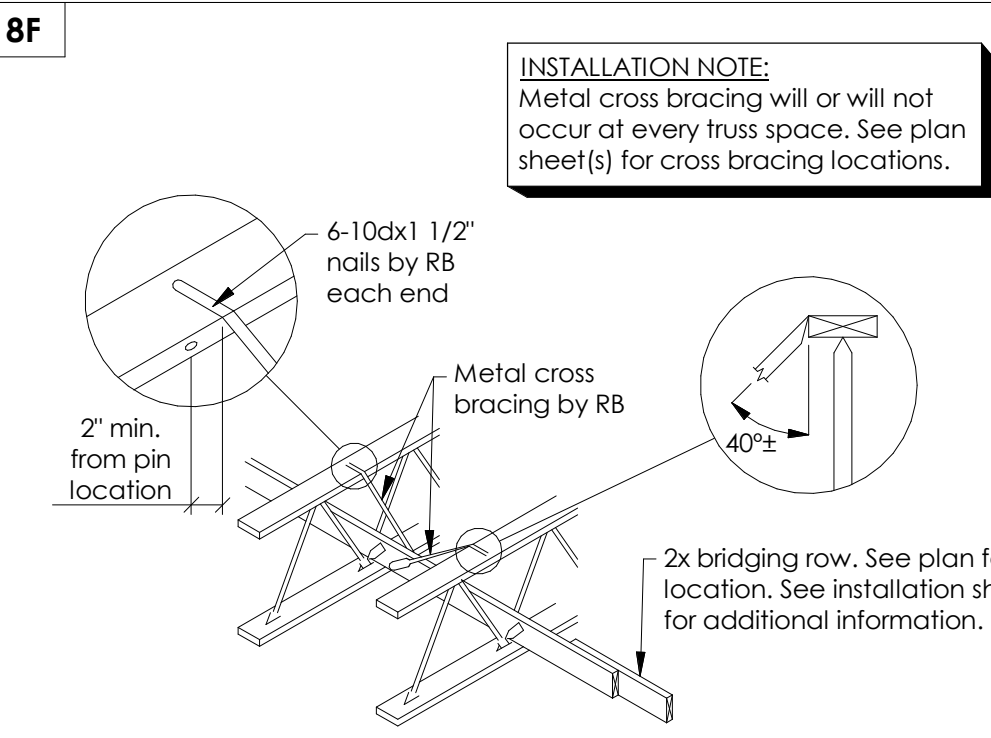
Bottom Chord Nailer



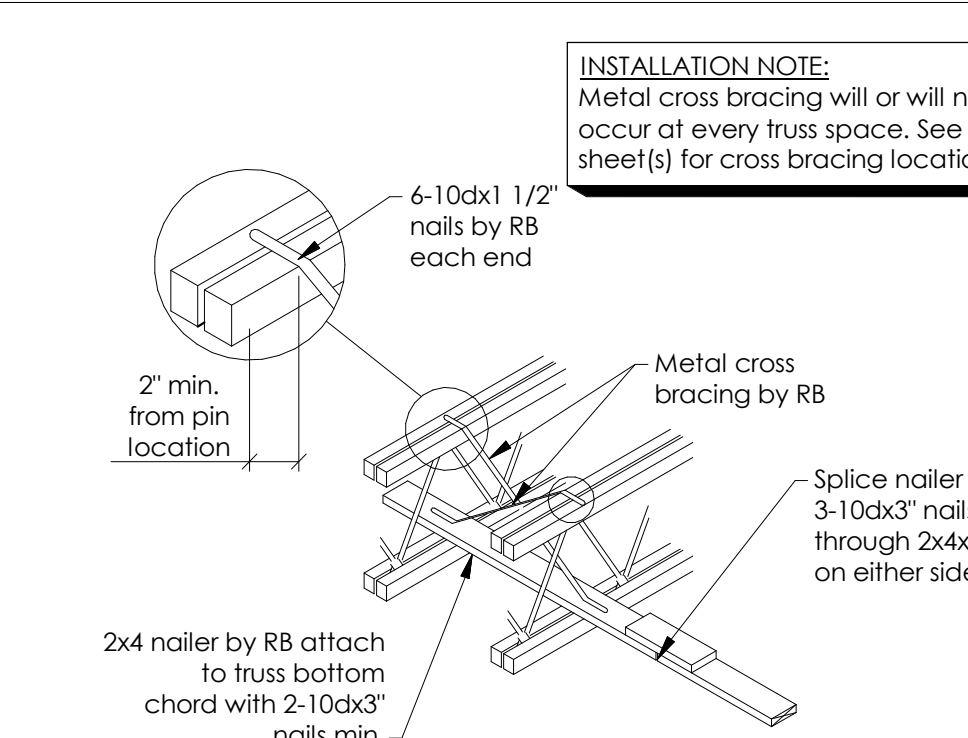
Red-L™, Red-W™ and Red-S™ Strongback Bridging



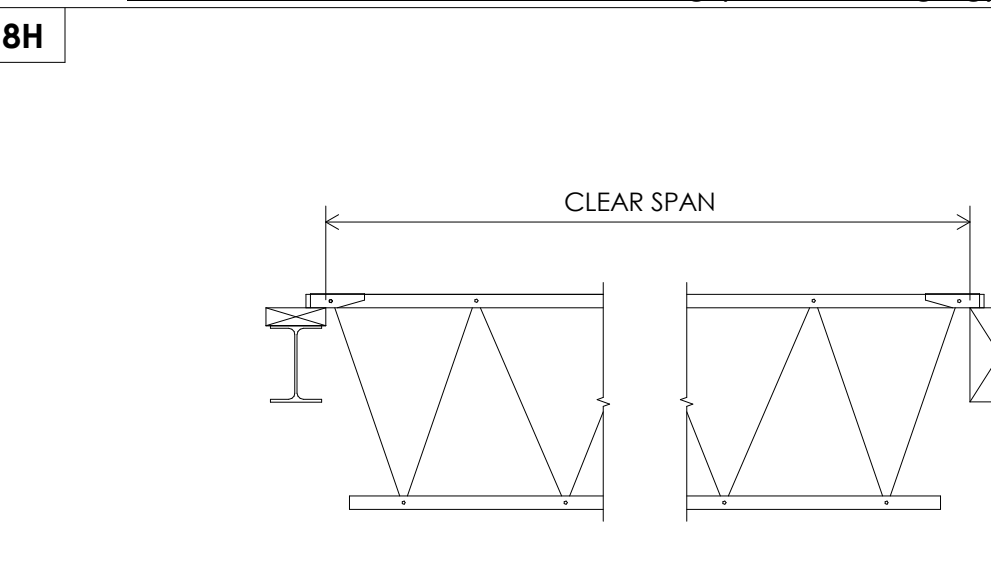
Red-M™ and Red-H™ Strongback Bridging



Red-L™ and Red-W™ Cross Bracing (Truss to Bridging)



Red-S™, Red-M™ and Red-H™ Cross Bracing (Truss to Nailer)



NOT REVIEWED BY CDA

CLEAR SPAN IS THE HORIZONTAL DISTANCE BETWEEN THE INSIDE FACE OF BEARING SURFACES. (ACTUAL BEARING CONDITION AND TRUSS SERIES MAY VARY)

Guidelines for Open Web "Clear Spans"



For allowable holes and fasteners information please scan the QR code or use the link below to access page number 3 of sprinkler system installation guide

<https://www.redbuilt.com/SprinklerSystemInstallationGuide>



For product warranty information please scan the QR code or use the link below to access the form

<https://www.redbuilt.com/ProductWarranty>

If you have questions or concerns:
Call your RedBuilt™ Representative directly, or for general customer service call (866) 859-6757

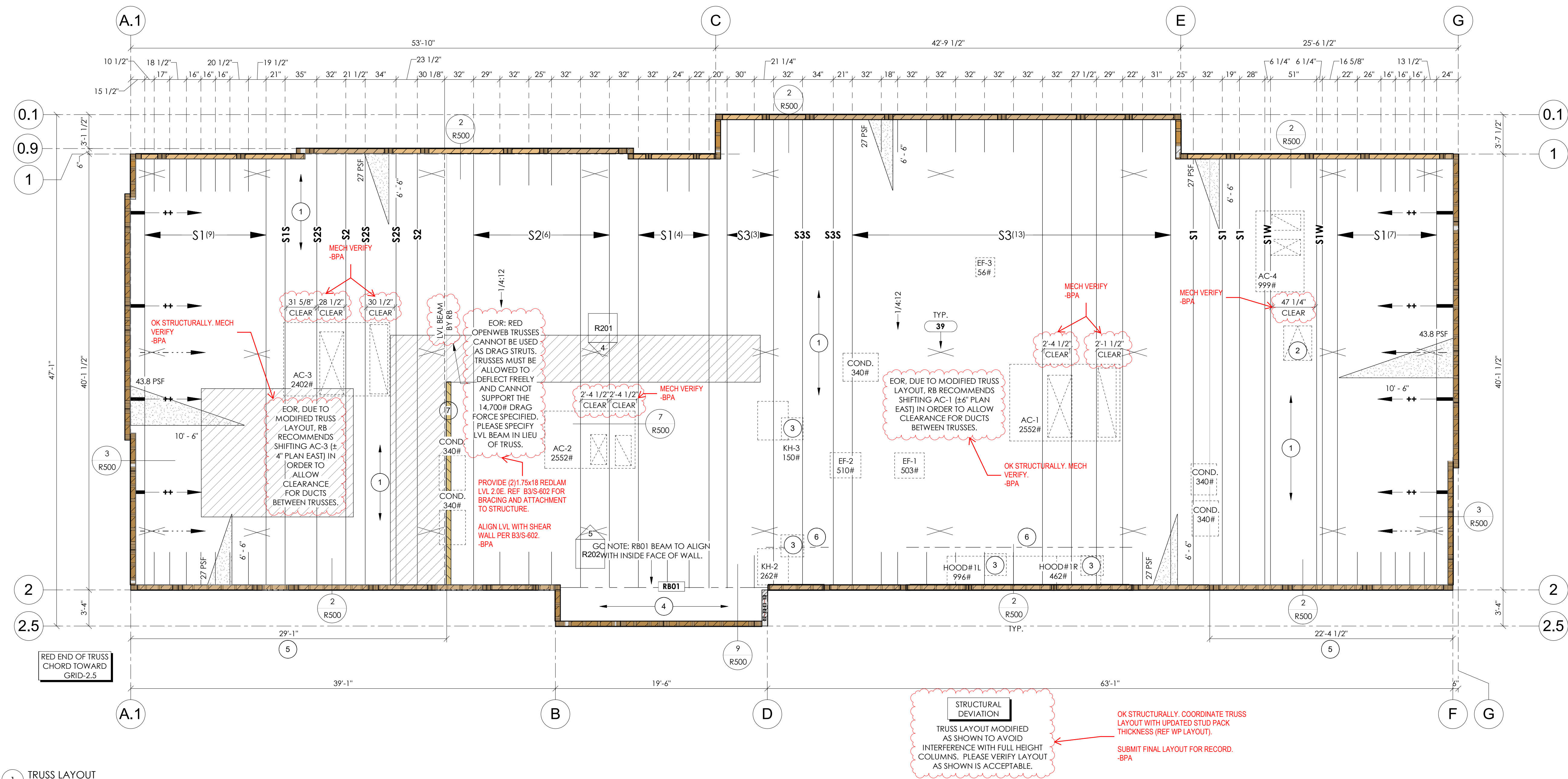
RedBuilt, LLC 9/17/2025 12:24 PM C:\Users\valerie\OneDrive\RedBuilt\42840 Chick-fil-A - Lee's Summit, MO\42840 Design\Revit\42840 Chick-fil-A - Lee's Summit, MO.rvt

1	#	by	Description	Date
			Revisions	

DRAWN BY: ARS	DATE: 9/17/25
CHECK BY: JBL	DATE: 9/17/25
RED BUILT PROJECT #	142840
SHEET NAME:	ROOF PLACEMENT PLAN
SHEET #	R130

• SEE SHEET R010 "PROJECT INFORMATION" FOR SYMBOLS SHOWN ON PLANS, ADDITIONAL INFORMATION, AND GENERAL NOTES.
• SEE "MATERIAL LISTS" & "CALCULATION PACKAGE" FOR DETAILED INFORMATION ON MATERIALS SUPPLIED BY REDBUILT.

OUT FOR APPROVAL - NOT FOR PRODUCTION



1 TRUSS LAYOUT
3/16" = 1'-0"

KEYNOTES:

- DENOTES 2x LADDER FRAMING BY OTHERS REQUIRED TO SUPPORT SHEATHING AT LARGE TRUSS SPACING, SEE DETAIL 4/R500.
- DENOTES 200# ROOF HATCH BY OTHERS.
- DENOTES HOOD DUCT OPENING.
- DENOTES FRAMING BY OTHERS.
- DENOTES PLYWOOD EDGE BLOCKING BY RB.
- DENOTES WALL BRACE LOAD: ±584# @ 160% (ULT). SEE DETAIL A3/S-501 FOR MORE INFO.
- DENOTES SHEAR WALL BELLOW, SEE DETAIL B3/S-602 FOR MORE INFO.

CLEAR SPAN IS THE HORIZONTAL DISTANCE BETWEEN THE INSIDE FACE OF BEARING SURFACES

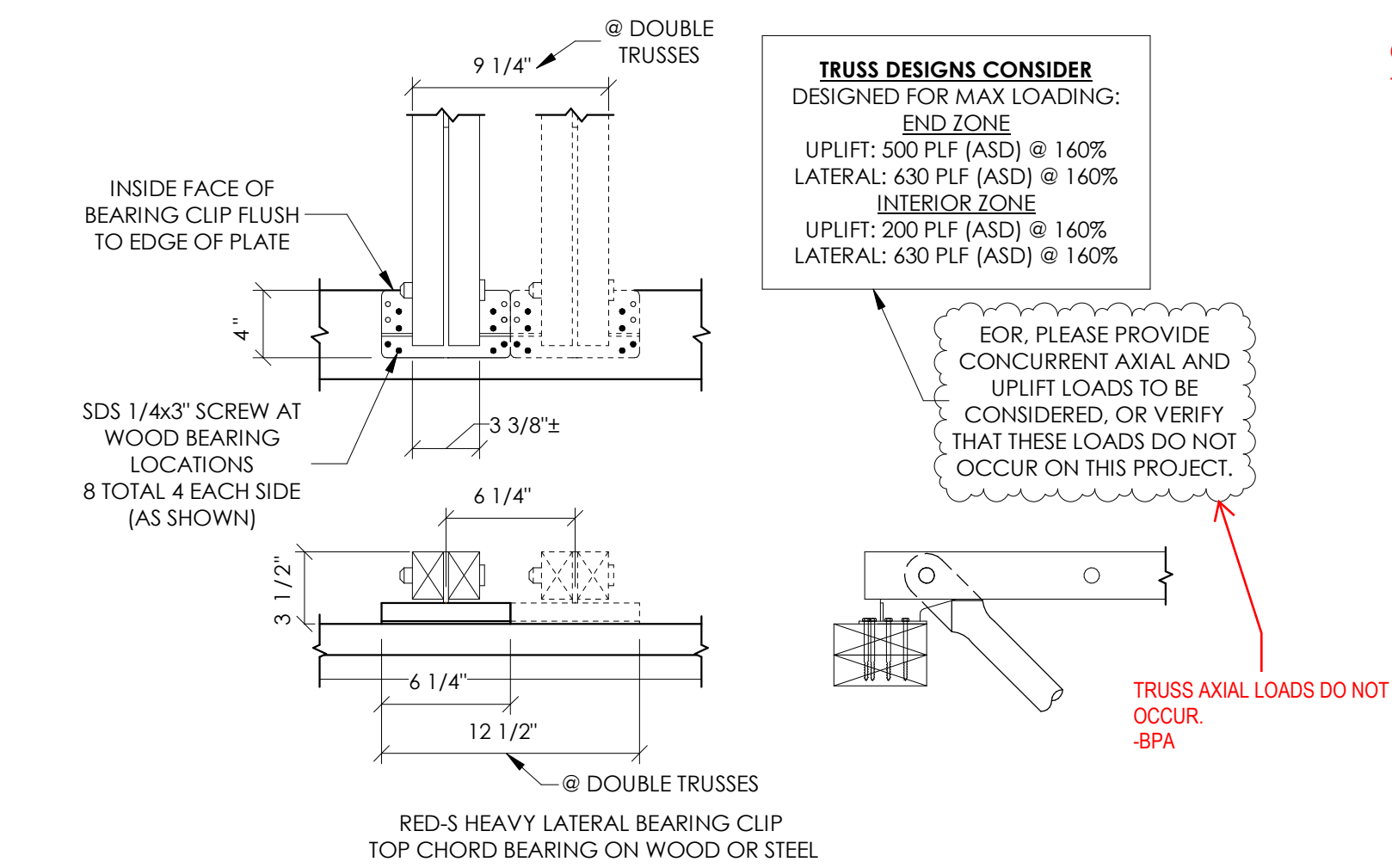
RedBuilt™ Open Web - Trusses			
Quantity	Type	OW Description	Clear Span
23	S1	28" Parallel Red-S	39' - 2 1/2"
1	S1S	28" Parallel Red-S	39' - 2 1/2"
4	S1W	28" Parallel Red-S	39' - 2 1/2"
8	S2	28" Parallel Red-S	39' - 8 1/2"
3	S2S	28" Parallel Red-S	39' - 8 1/2"
16	S3	28" Parallel Red-S	42' - 10"
2	S3S	28" Parallel Red-S	42' - 10"

RedLam™ Products - LVL Beams			
Quantity	Type	Description	Cut Length
1	RB01	5 1/4"x20" 2.0E RedLam LVL	20' - 0"
4	RB02*	1 3/4"x7 1/4" 2.0E RedLam LVL	24' - 0"
16	RB03*	1 3/4"x11 7/8" 2.0E RedLam LVL	16' - 0"

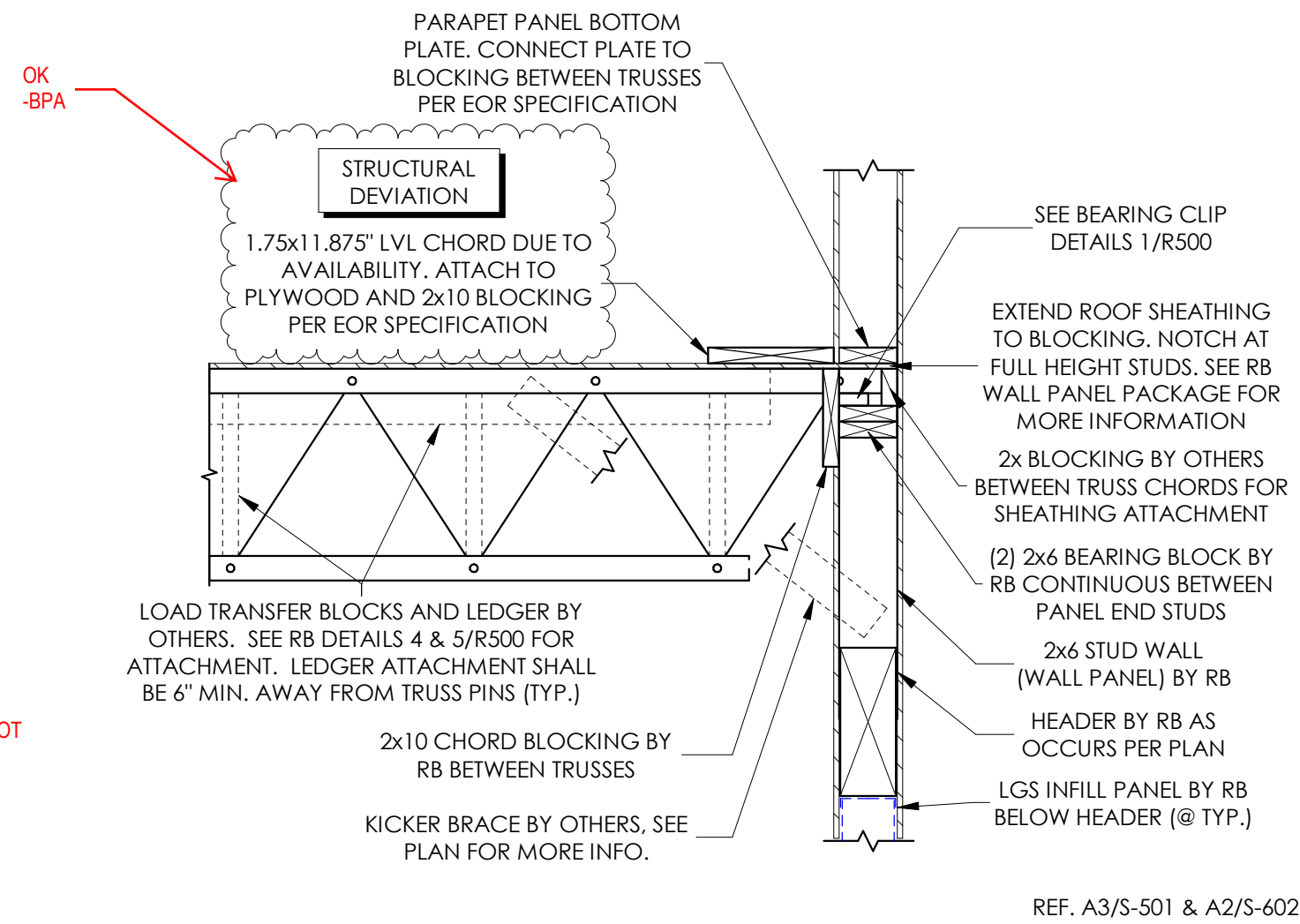
* NOT SHOWN ON PLAN, SEE RB DETAILS 2 & 3/R500 FOR MORE INFO.

KURZYNSKE RESPONSE:
AC#1 and AC#3 moved per the RedBuilt notes. Please note, that AC#1 has a slight conflict with one of the trusses due to the truss spacing. It may be able to be overcome in the field with an offset, but wanted to let it be known.

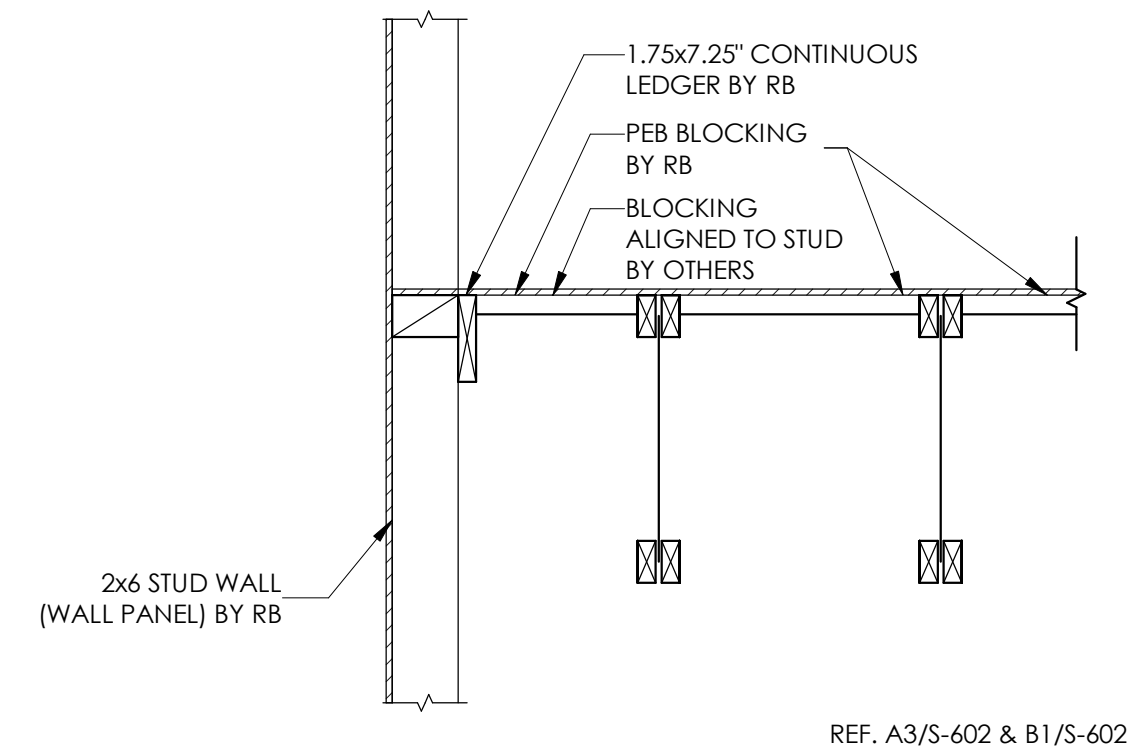
RedBuilt, LLC 9/17/2025 12:47 PM C:\Users\valtherdesign\OneDrive\RedBuilt\142840\Chick-fil-A - Lee's Summit_MO.dwg - General\Design\Revit\142840\Chick-fil-A - Lee's Summit_MO.rvt



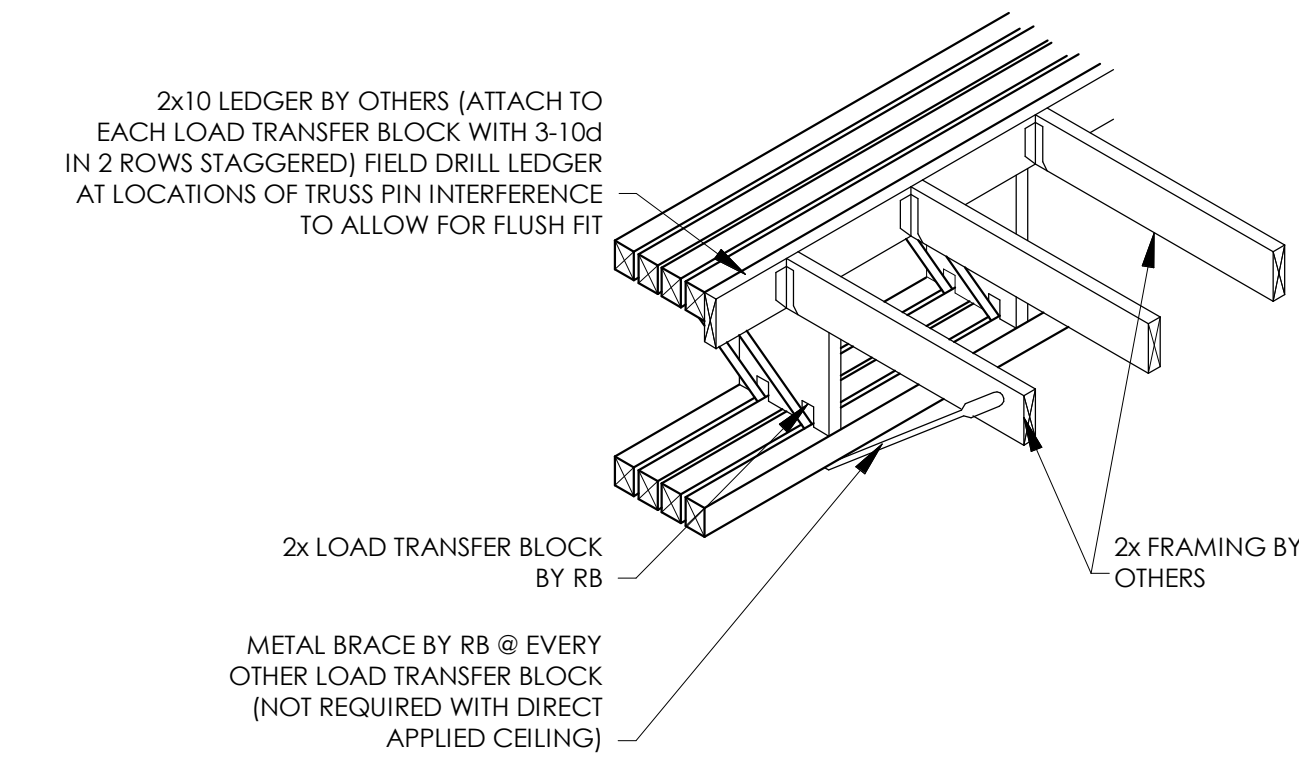
1 Lateral Heavy S-Clip (Wood Bearing) DBL



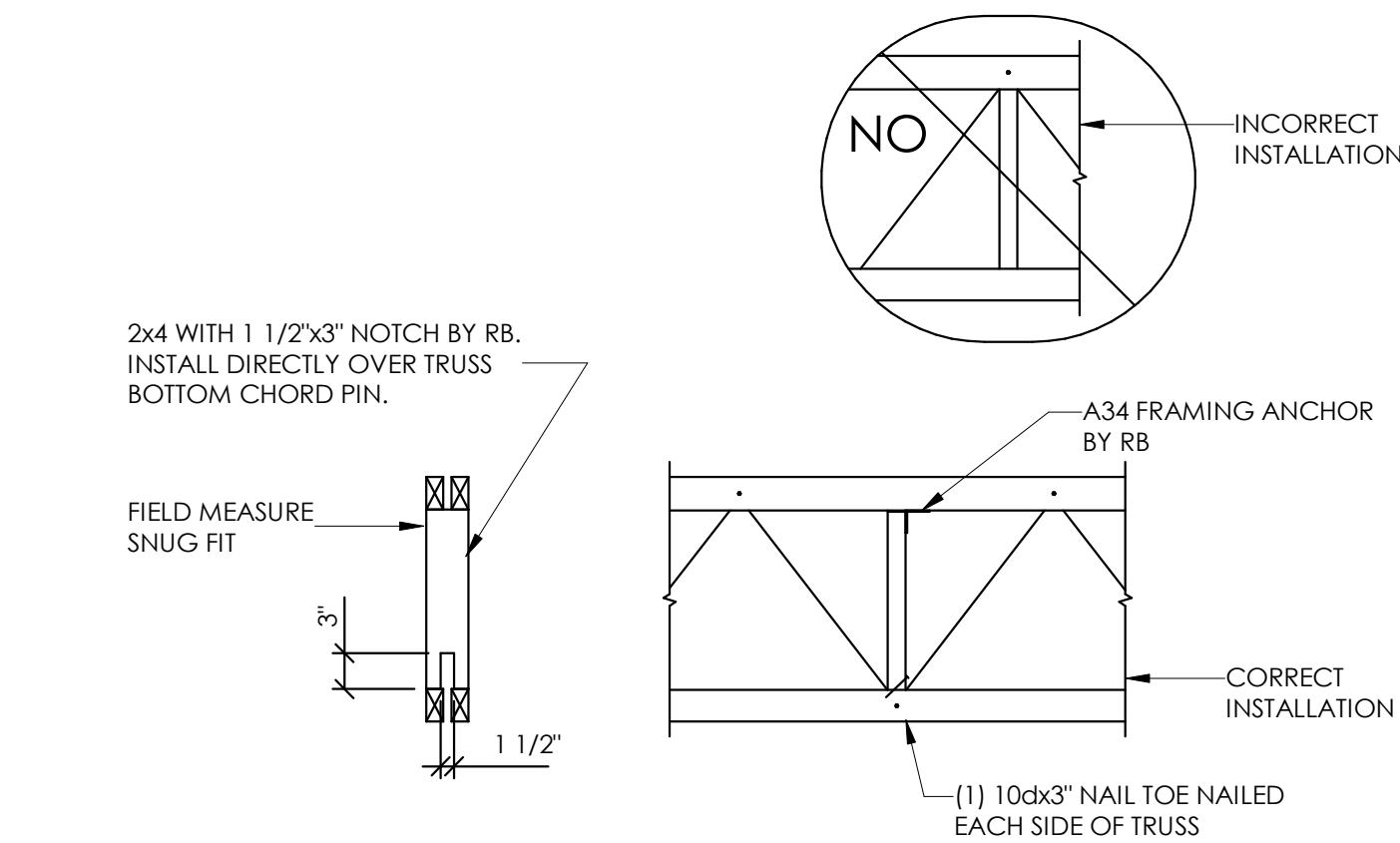
2 Red-S Wood Bearing Detail



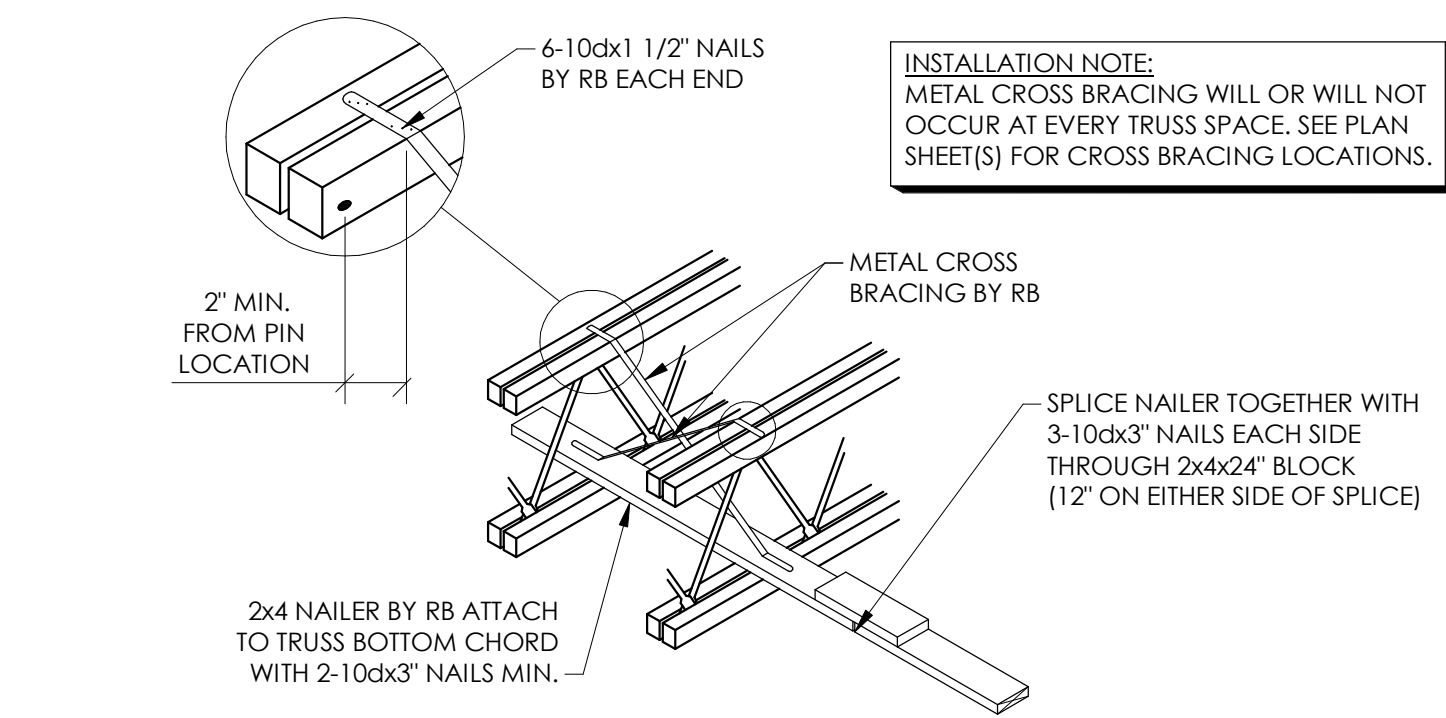
3 Red-S Perpendicular Truss Section



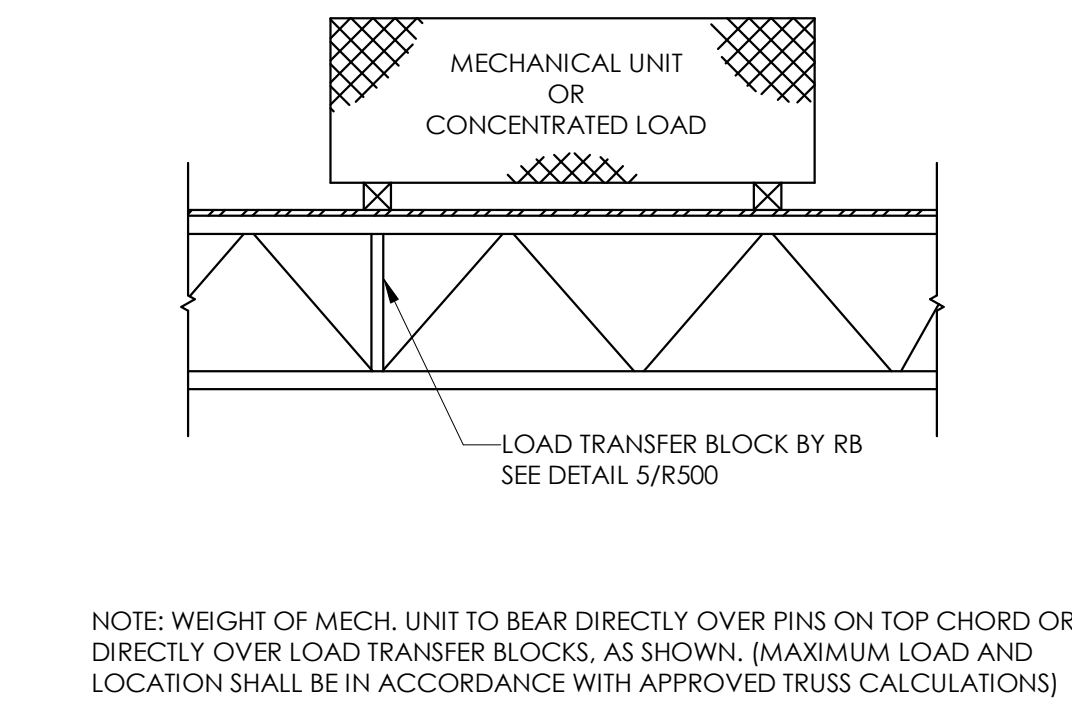
4 OW Ladder



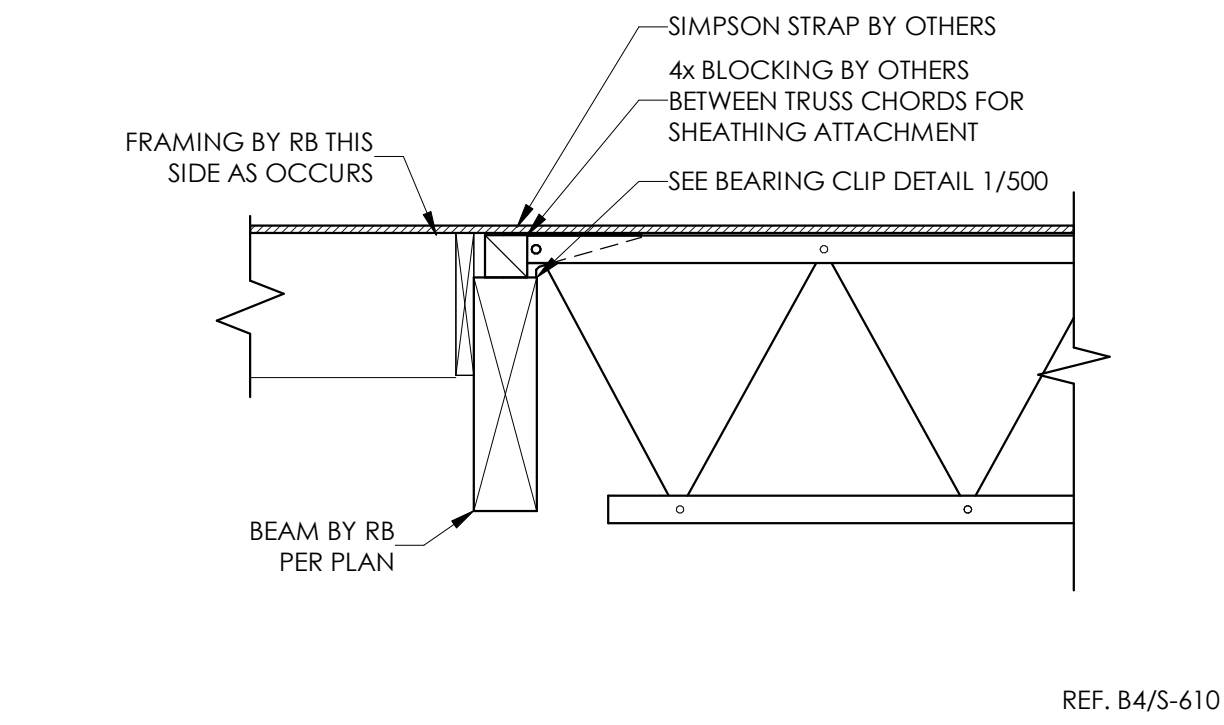
5 Load Transfer Block



6 OW Cross Bracing



7 Mech Unit Red-S



9 Red-S Beam Bearing

NOT REVIEWED BY CDA

#	by	Description	Date
		Revisions	
1			

DRAWN BY: ARS	DATE: 9/17/25
CHECK BY: JBL	DATE: 9/17/25
REDBUILT PROJECT #	142840
SHEET NAME:	DETAILS
SHEET #	R500

* SEE SHEET R010 FOR SYMBOLOLOGY, TAG CALLOUTS AND GENERAL NOTES NOT SHOWN HEREIN, REVISION, AND GENERAL NOTES.
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