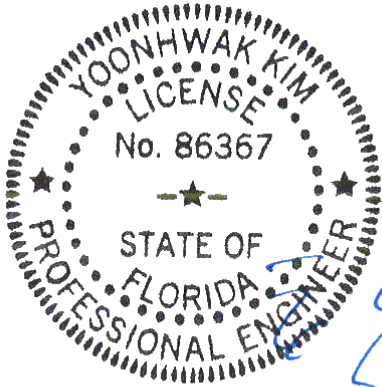




Alpine, an ITW Company
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Phone: (800)755-6001
www.alpineitw.com



This item has been digitally signed and sealed by Yoonhwak Kim on the date adjacent to the seal

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10/06/2025

COA#0-278, Yoonhwak Kim, FL PE #86367
Florida Certificate of Product Approval #FL 1999

Site Information:	Page 1:
Customer: Seminole Trusses, Inc.	Job Number: B61800b
Job Description: DAVIS RESIDENCE	
Address: 242 SW GOLDBOND AVE, Lake City, FL 32024	

Job Engineering Criteria:	
Design Code: FBC 8th Ed. 2023 Res.	IntelliVIEW Version: 24.02.00C JRef #: 1Ye08570002
Wind Standard: NA Wind Speed (mph): 0	Design Loading (psf): 55
Building Type:	

This package contains general notes pages, 13 truss drawing(s) and 3 detail(s).

Item	Drawing Number	Truss
1	279.25.0938.33273	F100 21'7"4 Gable
3	279.25.0938.36887	F102 17'10"12 Floor Truss
5	279.25.0938.39360	F104 14'9"12 Floor Truss
7	279.25.0938.42490	F106 14'9"4 Floor Truss
9	279.25.0938.45450	F108 14'2"4 Floor Truss
11	279.25.0938.47820	F110 7'4"4 Floor Truss
13	279.25.0938.51240	F112 3'8"4 Floor Truss
15	STRBRIBR1014	

Item	Drawing Number	Truss
2	279.25.0938.34850	F101 21'7"4 Floor Truss
4	279.25.0938.38100	F103 14'9"12 Gable
6	279.25.0938.40590	F105 14'9"4 Gable
8	279.25.0938.44023	F107 14'5"12 Floor Truss
10	279.25.0938.46683	F109 7'5"12 Gable
12	279.25.0938.48880	F111 3'8"4 Floor Truss
14	REPCHRD1014	
16	DEFLCAMB1014	

General Notes

Truss Design Engineer Scope of Work, Design Assumptions and Design Responsibilities:

The design responsibilities assumed in the preparation of these design drawings are those specified in ANSI/TPI 1, Chapter 2; and the National Design Standard for Metal Plate Connected Wood Truss Construction, by the Truss Plate Institute. The truss component designs conform to the applicable provisions of ANSI/TPI 1 and NDS, the National Design Specification for Wood Construction by AWC. The truss component designs are based on the specified loading and dimension information furnished by others to the Truss Design Engineer. The Truss Design Engineer has no duty to independently verify the accuracy or completeness of the information provided by others and may rely on that information without liability. The responsibility for verification of that information remains with others neither employed nor controlled by the Truss Design Engineer. The Truss Design Engineer's seal and signature on the attached drawings, or cover page listing these drawings, indicates acceptance of professional engineering responsibility solely for the truss component designs and not for the technical information furnished by others which technical information and consequences thereof remain their sole responsibility.

The suitability and use of these drawings for any particular structure is the responsibility of the Building Designer in accordance with ANSI/TPI 1 Chapter 2. The Building Designer is responsible for determining that the dimensions and loads for each truss component match those required by the plans and by the actual use of the individual component, and for ascertaining that the loads shown on the drawings meet or exceed applicable building code requirements and any additional factors required in the particular application. Truss components using metal connector plates with integral teeth shall not be placed in environments that will cause the moisture content of the wood in which plates are embedded to exceed 19% and/or cause corrosion of connector plates and other metal fasteners.

The Truss Design Engineer shall not be responsible for items beyond the specific scope of the agreed contracted work set forth herein, including but not limited to: verifying the dimensions of the truss component, calculation of any of the truss component design loads, inspection of the truss components before or after installation, the design of temporary or permanent bracing and their attachment required in the roof and/or floor systems, the design of diaphragms or shear walls, the design of load transfer connections to and from diaphragms and shear walls, the design of load transfer to the foundation, the design of connections for truss components to their bearing supports, the design of the bearing supports, installation of the truss components, observation of the truss component installation process, review of truss assembly procedures, sequencing of the truss component installation, construction means and methods, site and/or worker safety in the installation of the truss components and/or its connections.

This document may be a high-quality facsimile of the original engineering document which is a digitally signed electronic file with third party authentication. A wet or embossed seal copy of this engineering document is available upon request.

Temporary Lateral Restraint and Bracing:

Temporary lateral restraint and diagonal bracing shall be installed according to the provisions of BCSI chapters B1, B2, B7 and/or B10 (Building Component Safety Information, by TPI and SBCA), or as specified by the Building Designer or other Registered Design Professional. The required locations for lateral restraint and/or bracing depicted on these drawings are only for the permanent lateral support of the truss members to reduce buckling lengths, and do not apply to and may not be relied upon for the temporary stability of the truss components during their installation.

Permanent Lateral Restraint and Bracing:

The required locations for lateral restraint or bracing depicted on these drawings are for the permanent lateral support of the truss members to reduce buckling lengths. Permanent lateral support shall be installed according to the provisions of BCSI chapters B3, B7 and/or B10, or as specified by the Building Designer or other Registered Design Professional. These drawings do not depict or specify installation/erection bracing, wind bracing, portal bracing or similar building stability bracing which are parts of the overall building design to be specified, designed, and detailed by the Building Designer.

Connector Plate Information:

Alpine connector plates are made of ASTM A653 or ASTM A1063 galvanized steel with the following designations, gauges and grades: W=Wave, 20ga, grade 40; H=High Strength, 20ga, grade 60; S=Super Strength, 18ga, grade 60. Information on model code compliance is contained in the ICC Evaluation Service report ESR-1118, available on-line at www.icc-es.org.

Bearing Information:

The bearing area factor, C_b , is considered for the allowable capacity of solid sawn wood bearings supporting trusses that are located a minimum of 3" from the end of the lumber piece.

General Notes (continued)

Coated Lumber:

Coated lumber must be properly re-dried and maintained below 19% or less moisture level through all stages of construction and usage. Coated lumber has no adjustments to lumber properties. Coated lumber may be more brittle than uncoated lumber. Special handling care must be taken to prevent breakage during all handling activities. Refer to manufacturer literature, specifications, and code evaluation reports for restrictions, details, and requirements.

Fire Retardant Treated Lumber:

Fire retardant treated lumber must be properly re-dried and maintained below 19% or less moisture level through all stages of construction and usage. Fire retardant treated lumber may be more brittle than untreated lumber. Special handling care must be taken to prevent breakage during all handling activities.

Key to Terms:

Information provided on drawings reflects a summary of the pertinent information required for the truss design. Detailed information on load cases, reactions, member lengths, forces and members requiring permanent lateral support may be found in calculation sheets available upon written request.

BCDL = Bottom Chord standard design Dead Load in pounds per square foot.

BCLL = Bottom Chord standard design Live Load in pounds per square foot.

C = Coated lumber.

C-AT = AtTEK coated lumber.

C-FX = FX Lumber Guard coated lumber.

C -TE = TechWood 4400 coated lumber.

CL = Certified lumber.

Des Ld = total of TCDL, BCLL and BCDL Design Load in pounds per square foot.

FRT = Fire Retardant Treated lumber.

FRT-BF = Boraflame Fire Retardant Treated lumber

FRT-DB = D-Blaze Fire Retardant Treated lumber.

FRT-DC = Dricon Fire Retardant Treated lumber.

FRT-FP = FirePRO Fire Retardant Treated lumber.

FRT-FL = FlamePRO Fire Retardant Treated lumber.

FRT-FT = FlameTech Fire Retardant Treated lumber.

FRT-ON = OnWood Fire Retardant Treated lumber.

FRT-PG = PYRO-GUARD Fire Retardant Treated lumber.

FRT-PR = ProWood Fire Retardant Treated lumber.

g = green lumber.

HORZ(LL) = maximum Horizontal panel point deflection due to Live Load, in inches.

HORZ(TL) = maximum Horizontal panel point long term deflection in inches, due to Total Load, including creep adjustment.

HPL = additional Horizontal Load added to a truss Piece in pounds per linear foot or pounds.

Ic = Incised lumber.

FJ = Finger Jointed lumber.

L/# = user specified divisor for limiting span/deflection ratio for evaluation of actual L/defl value.

L/defl = ratio of Length between bearings, in inches, divided by the vertical Deflection due to creep, in inches, at the referenced panel point. Reported as 999 if greater than or equal to 999.

Loc = Location, starting location of left end of bearing or panel point (joint) location of deflection.

Max BC CSI = Maximum bending and axial Combined Stress Index for Bottom Chords for all load cases.

Max TC CSI = Maximum bending and axial Combined Stress Index for Top Chords for all load cases.

Max Web CSI = Maximum bending and axial Combined Stress Index for Webs for all load cases.

NCBCLL = Non-Concurrent Bottom Chord design Live Load in pounds per square foot.

PL = additional Load applied at a user specified angle on a truss Piece in pounds per linear foot or pounds.

PLB = additional vertical load added to a Bottom chord Piece of a truss in pounds per linear foot or pounds

PLT = additional vertical load added to a Top chord Piece of a truss in pounds per linear foot or pounds.

PP = Panel Point.

R = maximum downward design Reaction, in pounds, from all specified gravity load cases, at the indicated location (Loc).

-R = maximum upward design Reaction, in pounds, from all specified gravity load cases, at the identified location (Loc).

Rh = maximum horizontal design Reaction in either direction, in pounds, from all specified gravity load cases, at the indicated location (Loc).

RL = maximum horizontal design Reaction in either direction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).

General Notes (continued)

Key to Terms (continued):

Rw = maximum downward design Reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the identified location (Loc).

TCDL = Top Chord standard design Dead Load in pounds per square foot.

TCLL = Top Chord standard design Live Load in pounds per square foot.

U = maximum Upward design reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).

VERT(CL) = maximum Vertical panel point deflection in inches due to Live Load and Creep Component of Dead Load in inches.

VERT(CTL) = maximum Vertical panel point deflection ratios due to Live Load and Creep Component of Dead Load, and maximum long term Vertical panel point deflection in inches due to Total load, including creep adjustment.

VERT(LL) = maximum Vertical panel point deflection in inches due to Live Load.

VERT(TL) = maximum Vertical panel point long term deflection in inches due to Total load, including creep adjustment.

W = Width of non-hanger bearing, in inches.

Refer to ASCE-7 for Wind and Seismic abbreviations.

Uppercase Acronyms not explained above are as defined in TPI 1.

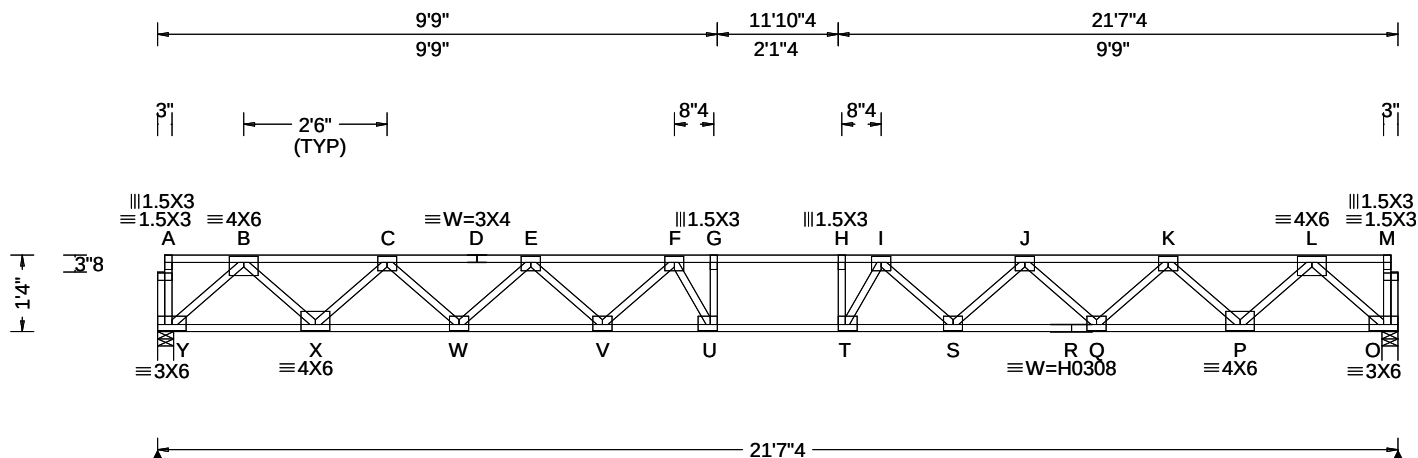
References:

1. AWC: American Wood Council; 222 Catoctin Circle SE, Suite 201; Leesburg, VA 20175; www.awc.org.
2. ICC: International Code Council; www.iccsafe.org.
3. Alpine, a division of ITW Building Components Group Inc.: 155 Harlem Ave, North Building, 4th Floor, Glenview, IL 60025; www.alpineitw.com.
4. TPI: Truss Plate Institute, 2670 Crain Highway, Suite 203, Waldorf, MD 20601; www.tpinst.org.
5. SBCA: Wood Truss Council of America, 6300 Enterprise Lane, Madison, WI 53719; www.sbcacomponents.com

SEQN: 66108	SY42	Ply: 1	Job Number: B61800b	Cust: R 857	JRef: 1Ye08570002	T1
FROM: RJL		Qty: 1	DAVIS RESIDENCE	DrwNo: 279.25.0938.33273		
			Truss Label: F100 21'7"4 Gable	SSB / YK	10/06/2025	

Lumber

SEQN: 66134 FROM: RJL	SY42 Ply: 1 Qty: 11	Job Number: B61800b DAVIS RESIDENCE Truss Label: F101 21'7"4 Floor Truss	Cust: R 857 JRef: 1Ye08570002 T2 DrwNo: 279.25.0938.34850 SSB / YK 10/06/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 10.00 BCLL: 0.00 BCDL: 5.00 Des Ld: 55.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.00 Spacing: 19.2 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: No FT/RT: 12(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.400 G 636 360 VERT(CL): 0.550 G 462 240 HORZ(LL): 0.061 O - - HORZ(TL): 0.084 O - - Creep Factor: 2.0 Max TC CSI: 0.889 Max BC CSI: 0.865 Max Web CSI: 0.494 VIEW Ver: 24.02.00C.1213.15	Gravity Loc R+ / R- / Rh / Rw / U / RL Y 940 /- /- /- /- /- O 940 /- /- /- /- /- Y Brg Wid = 3.4 Min Req = 1.5 (Truss) O Brg Wid = 3.4 Min Req = 1.5 (Truss) Bearings Y & O are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 0 -1715 G - H 0 -4060 C - D 0 -2952 H - I 0 -4054 D - E 0 -2952 I - J 0 -3727 E - F 0 -3727 J - K 0 -2952 F - G 0 -4054 K - L 0 -1715

Lumber

Top chord: 4x2 SP #1;
Bot chord: 4x2 SP #1;
Webs: 4x2 SP #3;

Plating Notes

All plates are 3X4 except as noted.

Deflection

Max JT VERT DEFL: LL: 0.40" DL: 0.15". See detail
DEFLCMB1014 for camber recommendations.

Additional Notes

See detail STRBRIBR1014 for bracing and bridging
recommendations.

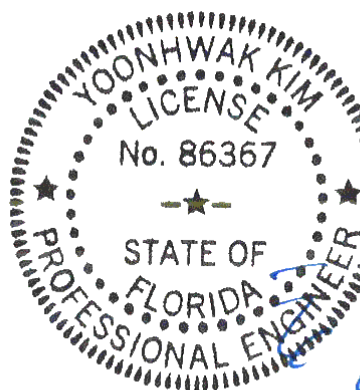
Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
Y - X	968 0	T - S	3990 0
X - W	2439 0	S - R	3446 0
W - V	3446 0	R - Q	3446 0
V - U	3990 0	Q - P	2439 0
U - T	4060 0	P - O	968 0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
Y - B	0 -1317	T - I	506 -216
B - X	1038 0	I - S	0 -441
X - C	0 -1008	S - J	400 0
C - W	714 0	J - Q	0 -686
W - E	0 -686	Q - K	714 0
E - V	400 0	K - P	0 -1008
V - F	0 -441	P - L	1038 0
F - U	506 -216	L - O	0 -1317

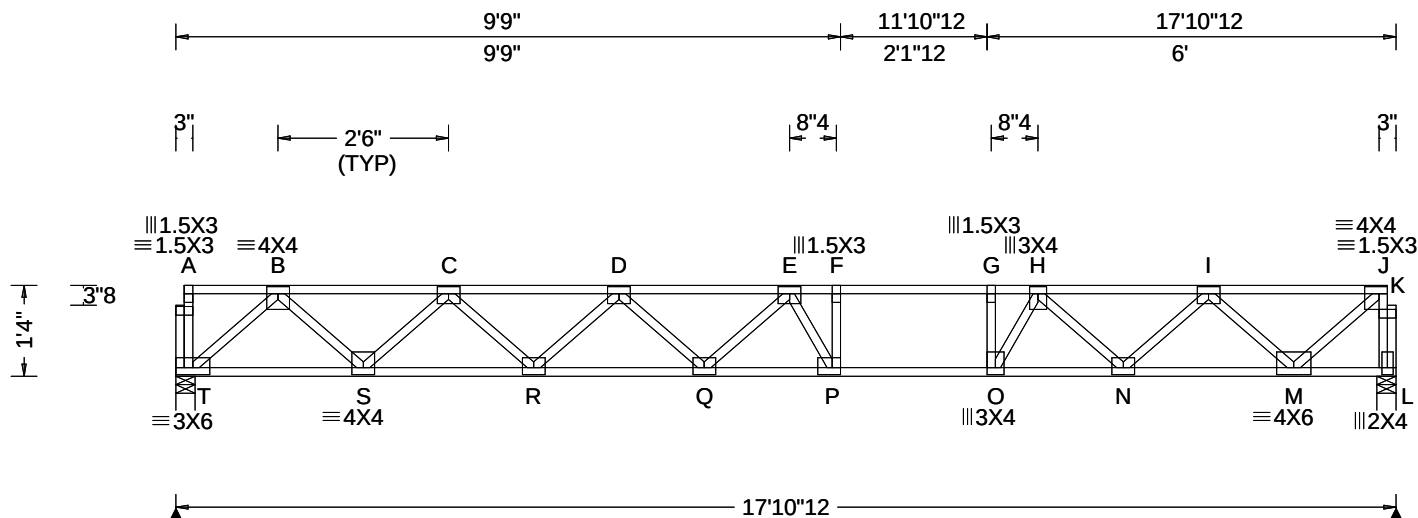


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10/06/2025
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Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

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Glenview, IL 60025

SEQN: 66110 FROM: RJL	SY42 Qty: 4	Ply: 1	Job Number: B61800b DAVIS RESIDENCE Truss Label: F102 17'10"12 Floor Truss	Cust: R 857 JRef: 1Ye08570002 T4 DrwNo: 279.25.0938.36887 SSB / YK 10/06/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 10.00 BCLL: 0.00 BCDL: 5.00 Des Ld: 55.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.00 Spacing: 19.2 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: No FT/RT:12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.287 P 733 360 VERT(CL): 0.394 P 533 240 HORZ(LL): 0.045 B - - HORZ(TL): 0.062 B - - Creep Factor: 2.0 Max TC CSI: 0.835 Max BC CSI: 0.954 Max Web CSI: 0.481 VIEW Ver: 24.02.00C.1213.15	Gravity Loc R+ / R- / Rh / Rw / U / RL T 777 /- /- /- /- /- L 777 /- /- /- /- /- T Brg Wid = 3.4 Min Req = 1.5 (Truss) L Brg Wid = 3.4 Min Req = 1.5 (Truss) Bearings T & L are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 0 - 1371 F - G 0 - 2629 C - D 0 - 2268 G - H 0 - 2609 D - E 0 - 2724 H - I 0 - 1865 E - F 0 - 2637 I - J 0 - 743

Lumber

Top chord: 4x2 SP #1;
Bot chord: 4x2 SP #1;
Webs: 4x2 SP #3;

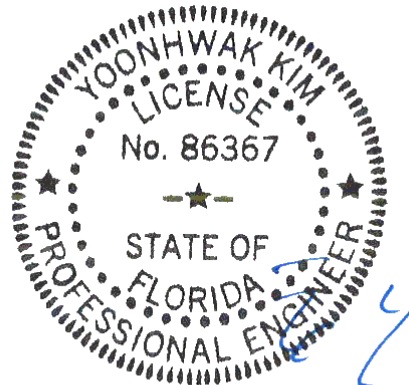
Plating Notes

All plates are 3X4 except as noted.

Additional Notes

See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.



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Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
T - S	792 0	P - O	2629 0
S - R	1926 0	O - N	2342 0
R - Q	2601 0	N - M	1426 0
Q - P	2770 0		

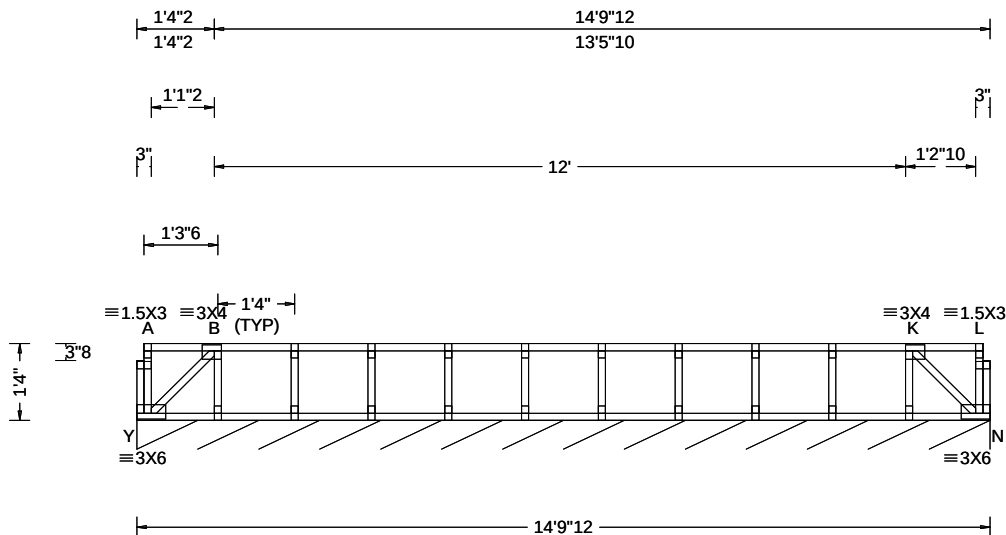
Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
T - B	0 - 1077	O - H	747 0
B - S	805 0	H - N	0 - 663
S - C	0 - 771	N - I	610 0
C - R	476 0	I - M	0 - 951
R - D	0 - 462	M - J	1010 0
E - P	158 - 448	J - K	0 - 766
G - O	0 - 492	K - L	0 - 770

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Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.
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SEQN: 66114 FROM: RJL	SY42 Qty: 1	Ply: 1 Qty: 1	Job Number: B61800b DAVIS RESIDENCE Truss Label: F103 14'9"12 Gable	Cust: R 857 JRef: 1Ye08570002 T7 DrwNo: 279.25.0938.38100 SSB / YK 10/06/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 40.00 TCDL: 10.00 BCLL: 0.00 BCDL: 5.00 Des Ld: 55.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.00 Spacing: 19.2 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: No FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 L 999 360 VERT(CL): 0.000 L 999 240 HORZ(LL): -0.000 Y - - HORZ(TL): 0.000 Y - - Creep Factor: 2.0 Max TC CSI: 0.063 Max BC CSI: 0.015 Max Web CSI: 0.025 VIEW Ver: 24.02.00C.1213.15	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL N* 87 /- /- /- /- /- N Brg Wid = 177 Min Req = - Bearing Y is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 4x2 SP #1;
Bot chord: 4x2 SP #1;
Webs: 4x2 SP #3;

Bracing

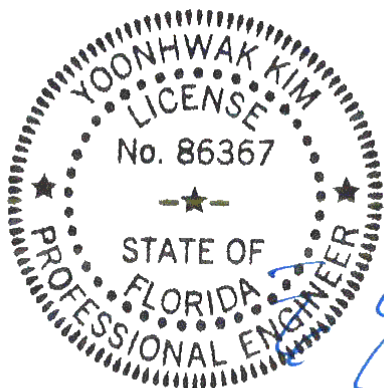
Sheathing is required for any longitudinal(drag) forces. All connections to be designed by the building designer.

Plating Notes

All plates are 1.5X3 except as noted.

Additional Notes

Truss must be installed as shown with top chord up.

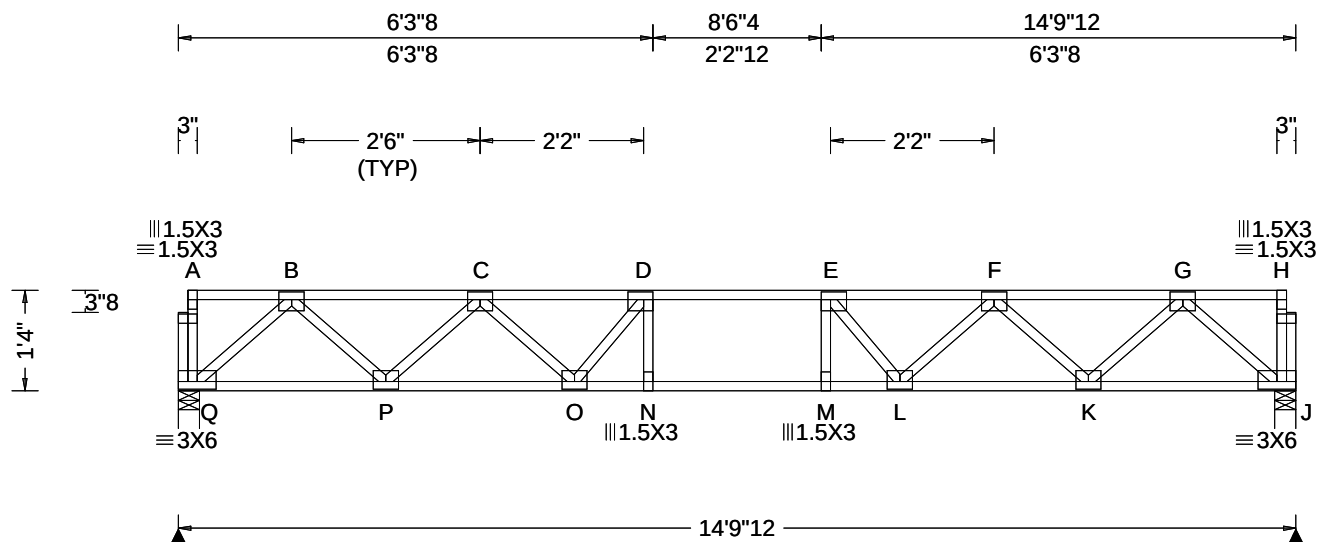


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For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

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SEQN: 66112 FROM: RJL	SY42 Ply: 1 Qty: 10	Job Number: B61800b DAVIS RESIDENCE Truss Label: F104 14'9"12 Floor Truss	Cust: R 857 JRef: 1Ye08570002 T3 DrwNo: 279.25.0938.39360 SSB / YK 10/06/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 10.00 BCLL: 0.00 BCDL: 5.00 Des Ld: 55.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.00 Spacing: 19.2 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: No FT/RT:12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.119 D 999 360 VERT(CL): 0.157 N 999 240 HORZ(LL): 0.024 B - - HORZ(TL): 0.031 B - - Creep Factor: 2.0 Max TC CSI: 0.377 Max BC CSI: 0.586 Max Web CSI: 0.289 VIEW Ver: 24.02.00C.1213.15	Gravity Loc R+ / R- / Rh / Rw / U / RL Q 641 /- /- /- /- /- J 641 /- /- /- /- /- Q Brg Wid = 3.4 Min Req = 1.5 (Truss) J Brg Wid = 3.4 Min Req = 1.5 (Truss) Bearings Q & J are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 0 -1083 E - F 0 -1713 C - D 0 -1713 F - G 0 -1083 D - E 0 -1863

Lumber

Top chord: 4x2 SP #1;
Bot chord: 4x2 SP #1;
Webs: 4x2 SP #3;

Plating Notes

All plates are 3X4 except as noted.

Additional Notes

See detail STRBRIBR1014 for bracing and bridging recommendations.

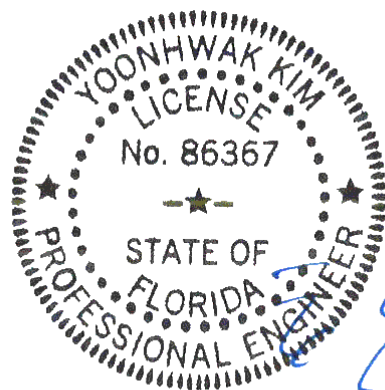
Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
Q - P	647	M - L	1863
P - O	1495	L - K	1495
O - N	1863	K - J	647
N - M	1863		0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
Q - B	0 -880	E - L	0 -384
B - P	606	F - K	0 -574
P - C	0 -574	K - G	606
O - D	0 -384	G - J	0 -880

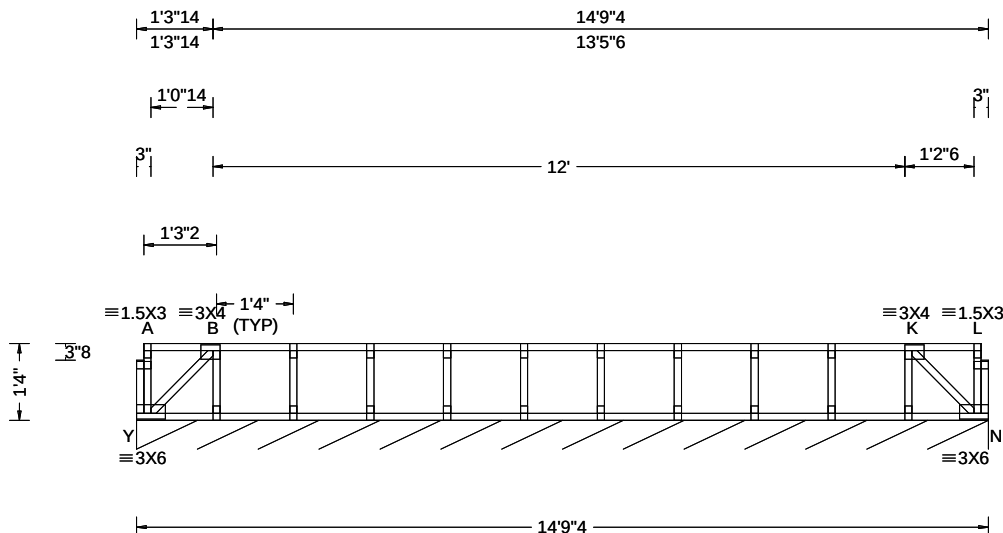


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Glenview, IL 60025

SEQN: 66128 FROM: RJL	SY42 Qty: 2	Ply: 1 Qty: 2	Job Number: B61800b DAVIS RESIDENCE Truss Label: F105 14'9"4 Gable	Cust: R 857 JRef: 1Ye08570002 T8 DrwNo: 279.25.0938.40590 SSB / YK 10/06/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 40.00 TCDL: 10.00 BCLL: 0.00 BCDL: 5.00 Des Ld: 55.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.00 Spacing: 19.2 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: No FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 L 999 360 VERT(CL): 0.000 L 999 240 HORZ(LL): -0.000 Y - - HORZ(TL): 0.000 Y - - Creep Factor: 2.0 Max TC CSI: 0.062 Max BC CSI: 0.015 Max Web CSI: 0.025 VIEW Ver: 24.02.00C.1213.15	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL N* 87 /- /- /- /- /- N Brg Wid = 177 Min Req = - Bearing Y is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 4x2 SP #1;
Bot chord: 4x2 SP #1;
Webs: 4x2 SP #3;

Bracing

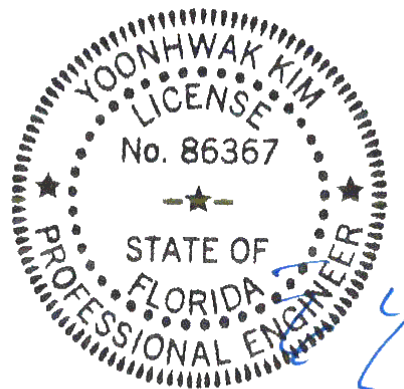
Sheathing is required for any longitudinal(drag) forces. All connections to be designed by the building designer.

Plating Notes

All plates are 1.5X3 except as noted.

Additional Notes

Truss must be installed as shown with top chord up.

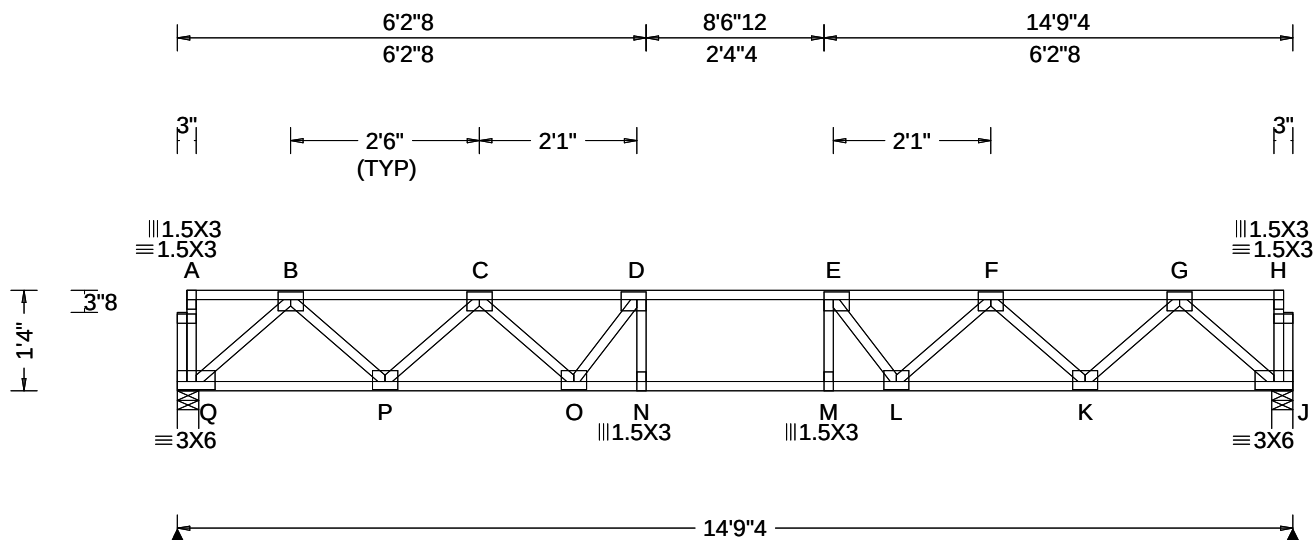


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SEQN: 66126 FROM: RJL	SY42 Ply: 1 Qty: 14	Job Number: B61800b DAVIS RESIDENCE Truss Label: F106 14'9"4 Floor Truss	Cust: R 857 JRef: 1Ye08570002 T6 DrwNo: 279.25.0938.42490 SSB / YK 10/06/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 10.00 BCLL: 0.00 BCDL: 5.00 Des Ld: 55.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.00 Spacing: 19.2 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: No FT/RT:12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.122 E 999 360 VERT(CL): 0.160 D 999 240 HORZ(LL): 0.019 J - - HORZ(TL): 0.031 B - - Creep Factor: 2.0 Max TC CSI: 0.436 Max BC CSI: 0.596 Max Web CSI: 0.287 VIEW Ver: 24.02.00C.1213.15	Gravity Loc R+ / R- / Rh / Rw / U / RL Q 639 /- /- /- /- /- J 639 /- /- /- /- /- Q Brg Wid = 3.4 Min Req = 1.5 (Truss) J Brg Wid = 3.4 Min Req = 1.5 (Truss) Bearings Q & J are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 0 -1078 E - F 0 -1709 C - D 0 -1709 F - G 0 -1078 D - E 0 -1849

Lumber

Top chord: 4x2 SP #1;
Bot chord: 4x2 SP #1;
Webs: 4x2 SP #3;

Plating Notes

All plates are 3X4 except as noted.

Additional Notes

See detail STRBR1014 for bracing and bridging recommendations.

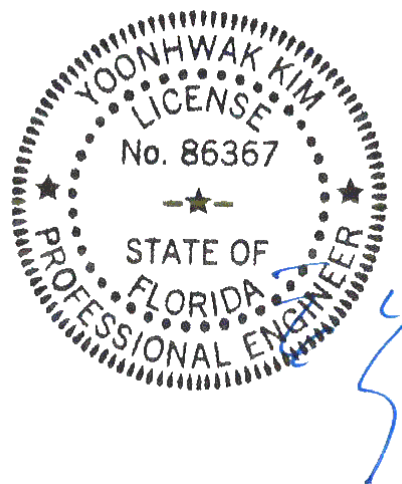
Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
Q - P	645 0	M - L	1848 0
P - O	1488 0	L - K	1488 0
O - N	1848 0	K - J	645 0
N - M	1849 0		

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
Q - B	0 -878	E - L	0 -388
B - P	602 0	F - K	0 -570
P - C	0 -570	K - G	602 0
O - D	0 -388	G - J	0 -878

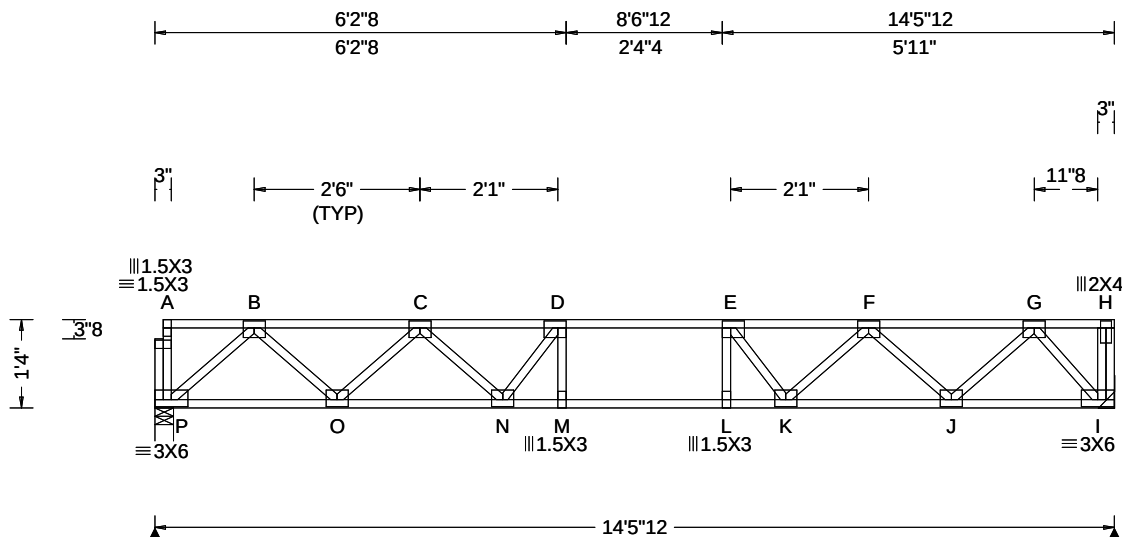


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Glenview, IL 60025

SEQN: 66130 FROM: RJL	SY42 Qty: 5	Ply: 1	Job Number: B61800b DAVIS RESIDENCE Truss Label: F107 14'5"12 Floor Truss	Cust: R 857 JRef: 1Ye08570002 T9 DrwNo: 279.25.0938.44023 SSB / YK 10/06/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 10.00 BCLL: 0.00 BCDL: 5.00 Des Ld: 55.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.00 Spacing: 19.2 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: No FT/RT: 12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.123 D 999 360 VERT(CL): 0.161 D 999 240 HORZ(LL): 0.025 B - - HORZ(TL): 0.032 B - - Creep Factor: 2.0 Max TC CSI: 0.424 Max BC CSI: 0.620 Max Web CSI: 0.296 VIEW Ver: 24.02.00C.1213.15	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL P 624 /- /- /- /- /- I 640 /- /- /- /- /- P Brg Wid = 3.4 Min Req = 1.5 (Truss) I Brg Wid = - Min Req = - Bearing P is a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 0 - 1045 E - F 0 - 1591 C - D 0 - 1641 F - G 0 - 924 D - E 0 - 1755

Lumber

Top chord: 4x2 SP #1;
Bot chord: 4x2 SP #1;
Webs: 4x2 SP #3;

Plating Notes

All plates are 3X4 except as noted.

Hangers / Ties

(J) Hanger Support Required, by others

Additional Notes

See detail STRBRIBR1014 for bracing and bridging recommendations.

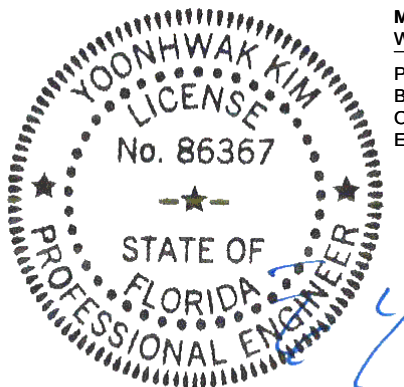
Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
P - O	628 0	L - K	1753 0
O - N	1440 0	K - J	1348 0
N - M	1756 0	J - I	477 0
M - L	1755 0		

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
P - B	0 - 854	K - F	380 0
B - O	581 0	F - J	0 - 590
O - C	0 - 549	J - G	621 0
E - K	0 - 410	G - I	0 - 772

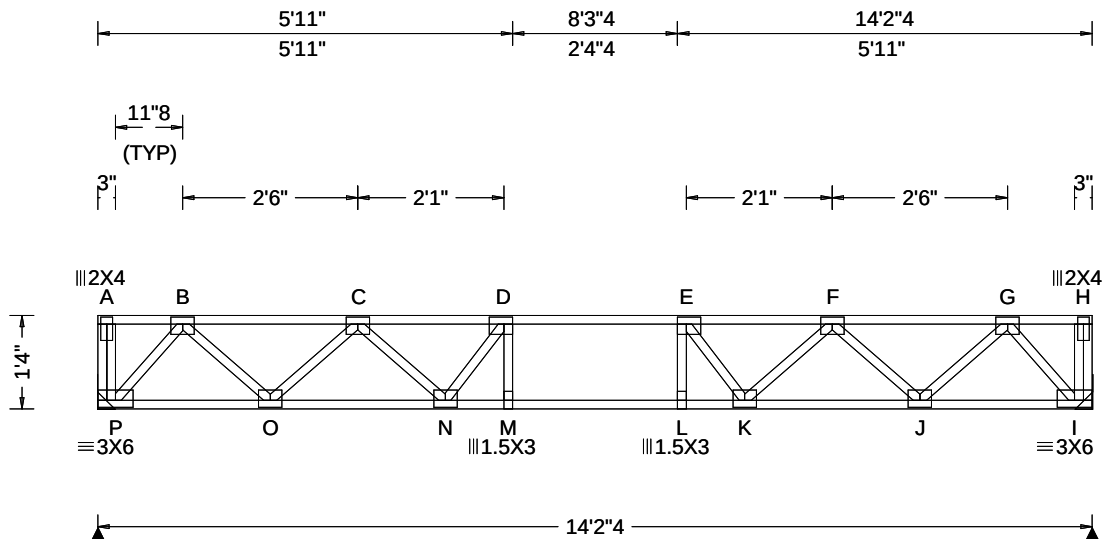


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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 66132 FROM: RJL	SY42	Ply: 1 Qty: 5	Job Number: B61800b DAVIS RESIDENCE Truss Label: F108 14'2"4 Floor Truss	Cust: R 857 JRef: 1Ye08570002 T10 DrwNo: 279.25.0938.45450 SSB / YK 10/06/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 10.00 BCLL: 0.00 BCDL: 5.00 Des Ld: 55.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.00 Spacing: 19.2 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: No FT/RT: 12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.085 E 999 360 VERT(CL): 0.139 E 999 240 HORZ(LL): 0.017 B - - HORZ(TL): 0.029 B - - Creep Factor: 2.0 Max TC CSI: 0.391 Max BC CSI: 0.550 Max Web CSI: 0.286 VIEW Ver: 24.02.00C.1213.15	Gravity Loc R+ / R- / Rh / Rw / U / RL P 624 /- /- /- /- /- I 624 /- /- /- /- /- P Brg Wid = - Min Req = - I Brg Wid = - Min Req = - Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 0 -896 E - F 0 -1527 C - D 0 -1527 F - G 0 -896 D - E 0 -1666

Lumber

Top chord: 4x2 SP #1;
Bot chord: 4x2 SP #1;
Webs: 4x2 SP #3;

Plating Notes

All plates are 3X4 except as noted.

Hangers / Ties

(J) Hanger Support Required, by others
(H2) = (J) Special hanger required Unavailable
supporting member.

Additional Notes

See detail STRBIBR1014 for bracing and bridging
recommendations.

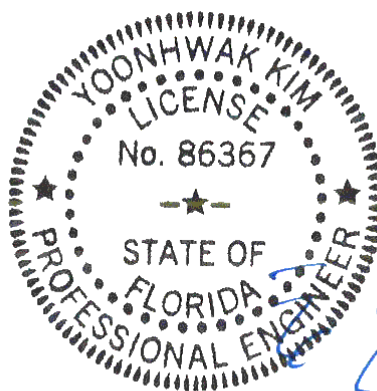
Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
P - O	464	L - K	1666
O - N	1305	K - J	1305
N - M	1666	J - I	464
M - L	1666		0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
P - B	0 -751	F - J	0 -570
B - O	600	J - G	600
O - C	0 -570	G - I	0 -751



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The drawing consists of two views of a bridge girder:

- Elevation View (Top):** Shows the side profile of the girder. The total length is 7'5"12. Key dimensions include:
 - Top flange width: 1'0"2
 - Top flange thickness: 1'0"2
 - Web thickness: 9"2
 - Bottom flange width: 10"10
 - Bottom flange thickness: 3"
 - Web height: 5'4"
 - Overall height: 1'0"14
- Plan View (Bottom):** Shows the top-down view of the girder. The total length is 7'5"12. Key dimensions and labels include:
 - Overall width: 3'8"
 - End stiffeners: 2X4 and 3X4 (labeled A and B, with B marked as TYP)
 - Stiffener spacing: 1'4"
 - Internal stiffeners: 3X4 and 1.5X3 (labeled F and G)
 - Bottom stiffeners: 3X6 (labeled O and I)
 - Web thickness: 1'4"

Lumber
Top chord: 4x2 SP #1;
Bot chord: 4x2 SP #1;
Webs: 4x2 SP #3;

Bracing
Sheathing is required for any longitudinal(drag) forces. All connections to be designed by the building designer.

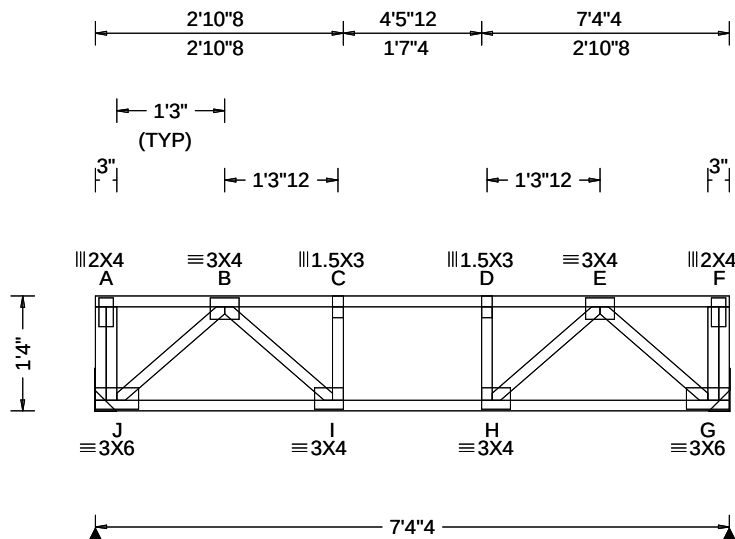
Plating Notes
All plates are 1.5X3 except as noted.

Additional Notes
Truss must be installed as shown with top chord up.

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SEQN: 66124 FROM: RJL	SY42 Ply: 1 Qty: 1	Job Number: B61800b DAVIS RESIDENCE Truss Label: F110 7'4" Floor Truss	Cust: R 857 JRef: 1Ye08570002 T14 DrwNo: 279.25.0938.47820 SSB / YK 10/06/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 10.00 BCLL: 0.00 BCDL: 5.00 Des Ld: 55.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.00 Spacing: 19.2 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: No FT/RT: 12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.018 C 999 360 VERT(CL): 0.023 D 999 240 HORZ(LL): 0.006 B - - HORZ(TL): 0.007 B - - Creep Factor: 2.0 Max TC CSI: 0.151 Max BC CSI: 0.119 Max Web CSI: 0.106 VIEW Ver: 24.02.00C.1213.15	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity Loc R+ / R- / Rh / Rw / U / RL J 323 -/- -/- -/- -/- G 323 -/- -/- -/- -/- -/- J Brg Wid = - Min Req = - G Brg Wid = - Min Req = - Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 0 -403 D - E 0 -403 C - D 0 -410

Lumber

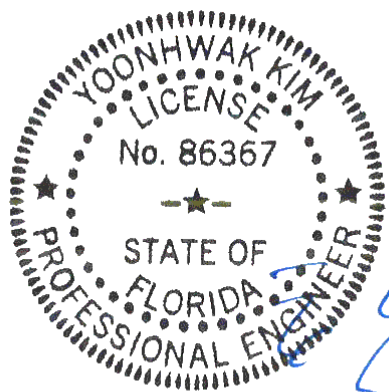
Top chord: 4x2 SP #1;
Bot chord: 4x2 SP #1;
Webs: 4x2 SP #3;

Hangers / Ties

(J) Hanger Support Required, by others
(H2) = (J) Special hanger required Unavailable
supporting member.

Additional Notes

Truss must be installed as shown with top chord up.

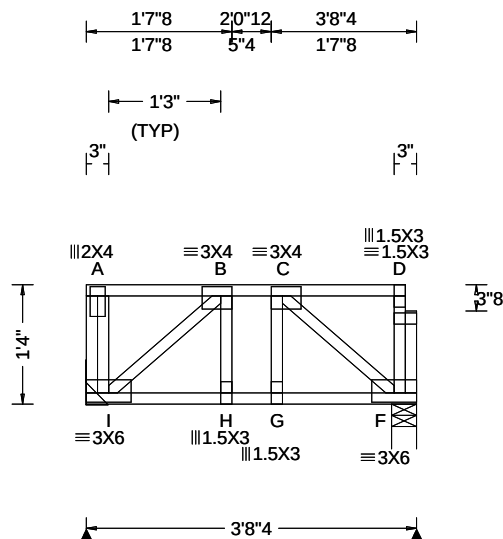


COA#0-278, Yoonhwak Kim, FL PE #86367
Florida Certificate of Product Approval #FL 1999

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ALPINE
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155 Harlem Ave
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Glenview, IL 60025

SEQN: 66119 FROM: RJL	SY42 Ply: 1 Qty: 7	Job Number: B61800b DAVIS RESIDENCE Truss Label: F111 3'8"4 Floor Truss	Cust: R 857 JRef: 1Ye08570002 T16 DrwNo: 279.25.0938.48880 SSB / YK 10/06/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 10.00 BCLL: 0.00 BCDL: 5.00 Des Ld: 55.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.00 Spacing: 19.2 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: No FT/RT: 12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.002 G 999 360 VERT(CL): 0.003 C 999 240 HORZ(LL): 0.001 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.073 Max BC CSI: 0.047 Max Web CSI: 0.032 VIEW Ver: 24.02.00C.1213.15	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL I 166 /- /- /- /- /- F 149 /- /- /- /- /- I Brg Wid = - Min Req = - F Brg Wid = 3.4 Min Req = 1.5 (Truss) Bearing F is a rigid surface. Members not listed have forces less than 375#

Lumber

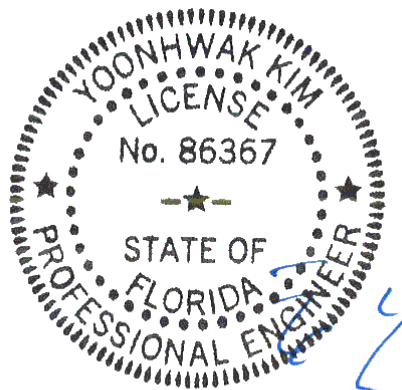
Top chord: 4x2 SP #1;
Bot chord: 4x2 SP #1;
Webs: 4x2 SP #3;

Hangers / Ties

(J) Hanger Support Required, by others

Additional Notes

Truss must be installed as shown with top chord up.

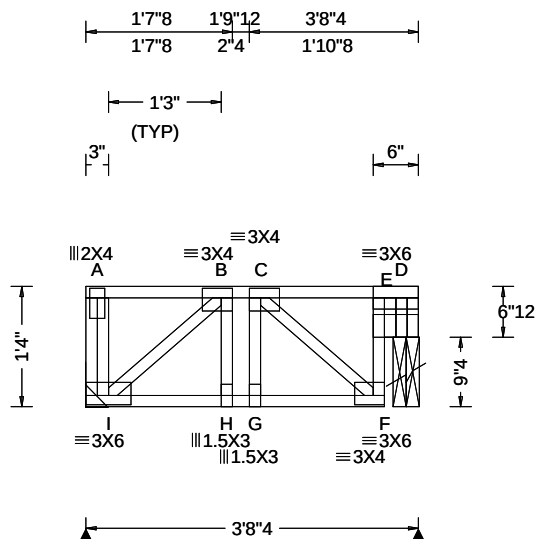


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North Building, 4th Floor
Glenview, IL 60025

SEQN: 66121 FROM: RJL	SY42 Ply: 1 Qty: 2	Job Number: B61800b DAVIS RESIDENCE Truss Label: F112 3'8"4 Floor Truss	Cust: R 857 JRef: 1Ye08570002 T17 DrwNo: 279.25.0938.51240 SSB / YK 10/06/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 10.00 BCLL: 0.00 BCDL: 5.00 Des Ld: 55.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.00 Spacing: 19.2 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: No FT/RT: 12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.004 C 999 360 VERT(CL): 0.005 C 999 240 HORZ(LL): 0.001 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.108 Max BC CSI: 0.046 Max Web CSI: 0.154 VIEW Ver: 24.02.00C.1213.15	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL I 166 /- /- /- /- /- E 156 /- /- /- /- /- I Brg Wid = - Min Req = - E Brg Wid = 3.4 Min Req = 1.5 (Support) Bearing E is a rigid surface. Members not listed have forces less than 375#

Lumber

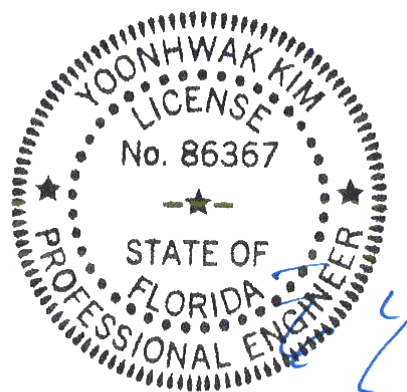
Top chord: 4x2 SP #1;
Bot chord: 4x2 SP #1;
Webs: 4x2 SP #3;
Rt Bearing Leg: 4x2 SP #3;

Hangers / Ties

(J) Hanger Support Required, by others

Additional Notes

Truss must be installed as shown with top chord up.



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North Building, 4th Floor
Glenview, IL 60025

Cracked or Broken Member Repair Detail

This drawing specifies repairs for a truss with broken chord or web member.

This design is valid only for single ply trusses with 2x4 or 2x6 broken members. No more than one break per chord panel and no more than two breaks per truss are allowed. Contact the truss manufacturer for any repairs that do not comply with this detail.

(B) = Damaged area, 12" max length of damaged section

(L) = Minimum nailing distance on each side of damaged area (B)

(S) = Two 2x4 or two 2x6 side members, same size, grade, and species as damaged member. Apply one scab per face.
Minimum side member length(s) = (2)(L) + (B)

Scab member length (S) must be within the broken panel.

Nail into 2x4 members using two (2) rows at 4" o.c., rows staggered.

Nail into 2x6 members using three (3) rows at 4" o.c., rows staggered.

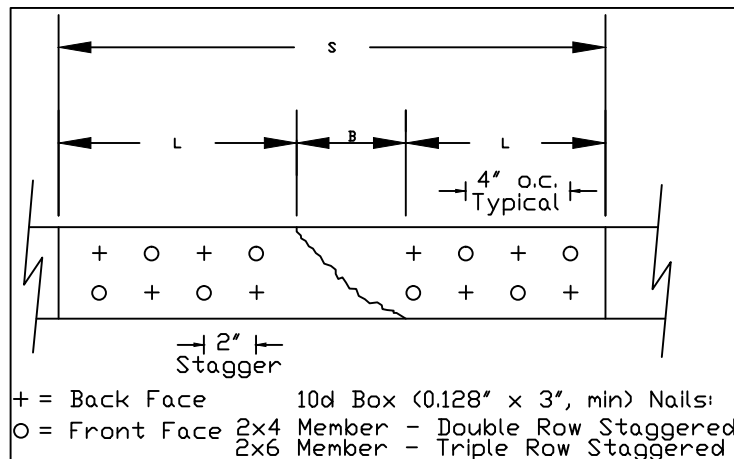
Nail using 10d box or gun nails (0.128"x3", min) into each side member.

The maximum permitted lumber grade for use with this detail is limited to Visual grade #1 and MSR grade 1650f.

This repair detail may be used for broken connector plate at mid-panel splices.

This repair detail may not be used for damaged chord or web sections occurring within the connector plate area.

Broken chord may not support any tie-in loads.

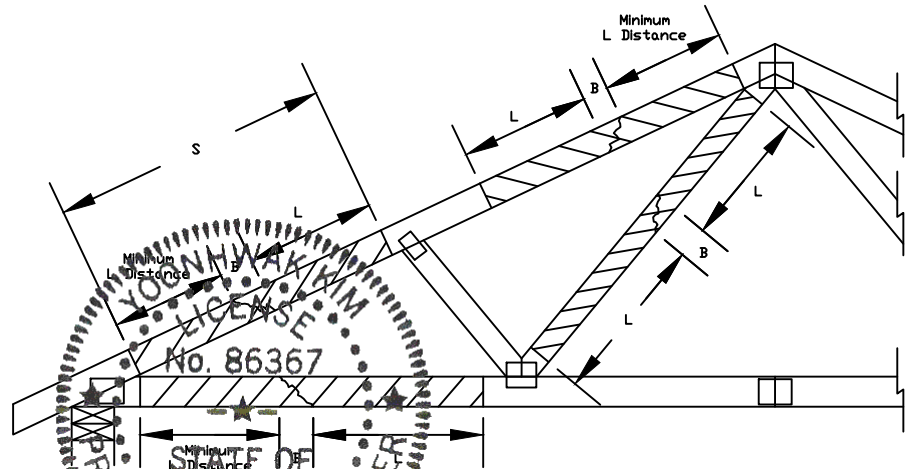


Nail Spacing Detail

Load Duration = 0%

Member forces may be increased for Duration of Load

			Maximum Member Axial Force			
Member	Size	L	SPF-C	HF	DF-L	SYN
Web Only	2x4	12"	620#	635#	730#	800#
Web Only	2x4	18"	975#	1055#	1295#	1415#
Web or Chord	2x4	24"	975#	1055#	1495#	1745#
Web or Chord	2x6		1465#	1585#	2245#	2620#
Web or Chord	2x4	30"	1910#	1960#	2315#	2555#
Web or Chord	2x6		2230#	2365#	3125#	3575#
Web or Chord	2x4	36"	2470#	2530#	2930#	3210#
Web or Chord	2x6		3535#	3635#	4295#	4745#
Web or Chord	2x4	42"	2975#	3045#	3505#	3835#
Web or Chord	2x6		4395#	4500#	5225#	5725#
Web or Chord	2x4	48"	3460#	3540#	4070#	4445#
Web or Chord	2x6		5165#	5280#	6095#	6660#



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 INE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcacomponents.com; ICC: www.lccsafe.org

10/06/2025

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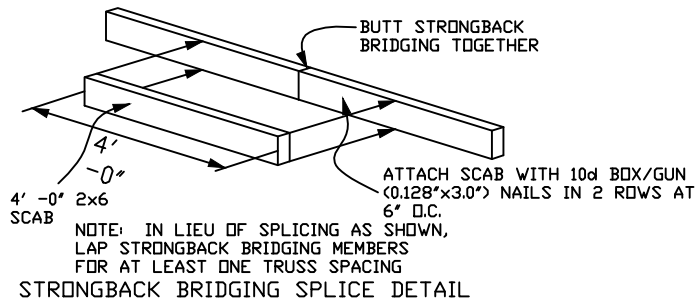
REF	MEMBER	REPAIR
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DATE 10/01/14

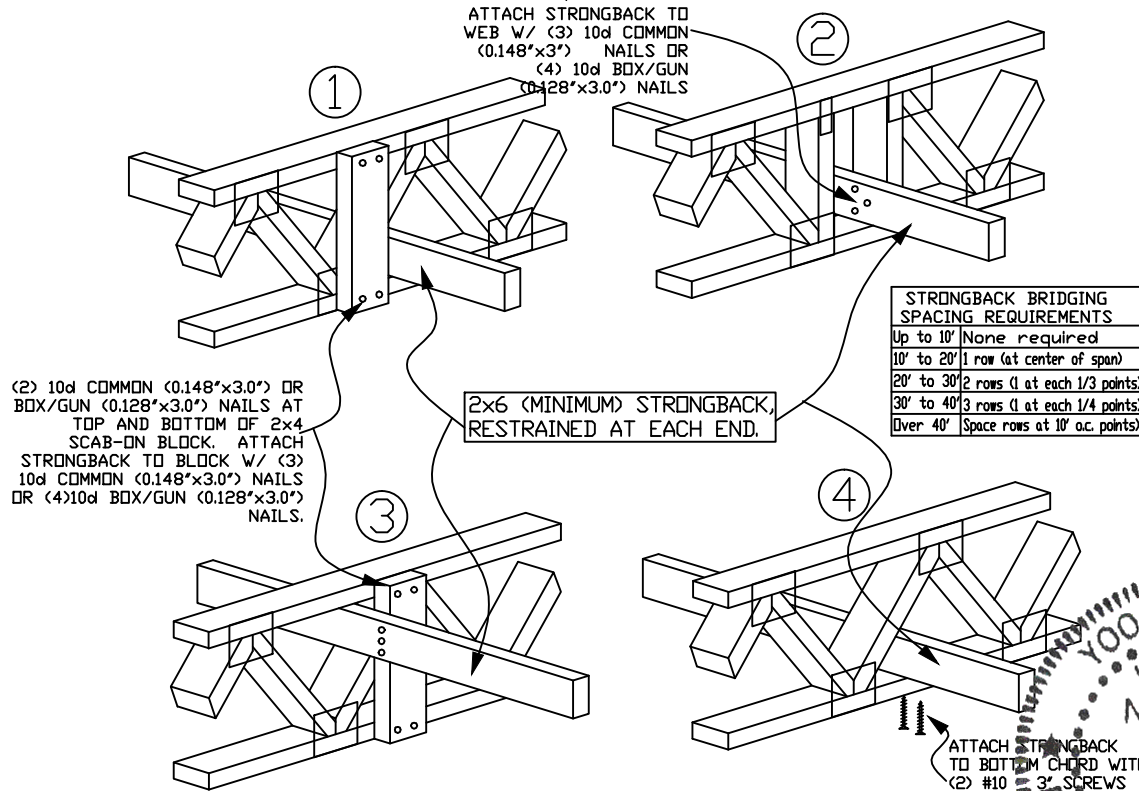
DRWG REPCHRD1014

ESPACING#R167 24.0" MAX

STRONGBACK BRIDGING RECOMMENDATIONS



NOTE: Details 1 and 2 are the preferred attachment methods

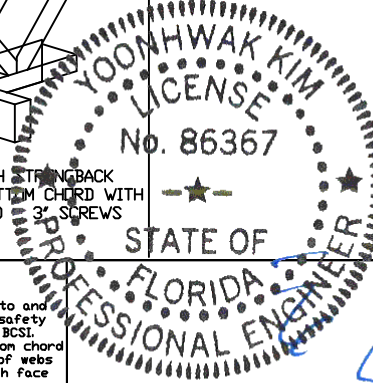


STRONGBACK BRIDGING ATTACHMENT ALTERNATIVES

- All scab-on blocks shall be a minimum 2x4 "stress graded lumber."
- All strongback bridging and bracing shall be a minimum 2x6 "stress graded lumber."
- The purpose of strongback bridging is to develop load sharing between individual trusses, resulting in an overall increase in the stiffness of the floor system. 2x6 strongback bridging, positioned as shown in details, is recommended at 10' - 0" o.c. (max.)
- The terms "bridging" and "bracing" are sometimes mistakenly used interchangeably. "Bracing" is an important structural requirement of any floor or roof system. Refer to the Truss Design Drawing (TDD) for the bracing requirements for each individual truss component. "Bridging," particularly "strongback bridging" is a recommendation for a truss system to help control vibration. In addition to aiding in the distribution of point loads between adjacent truss, strongback bridging serves to reduce "bounce" or residual vibration resulting from moving point loads, such as footsteps.

The performance of all floor systems are enhanced by the installation of strongback bridging and therefore is strongly recommended by Alpine.

For additional information regarding strongback bridging, refer to BCSI (Building Component Safety Information).



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TC LL	PSF	REF	STRONGBACK
TC DL	PSF	DATE	10/01/14
BC DL	PSF	DRWG	STRBRIBR1014
BC LL	PSF		
DT. LD.	PSF		
DUR. FAC.	1.00		
SPACING			

Commentary: Deflection and Camber

Camber may be built into trusses to compensate for the vertical deflection that results from the application of loads. Providing camber has the following advantages:

- Helps to ensure level ceilings and floors after dead loads are applied.
- Facilitates drainage to avoid ponding on flat or low slope roofs.
- Compensates for different deflection characteristics between adjacent trusses.
- Improves appearance of garage door headers and other long spans that can appear to "sag."
- Avoids "dips" in roof ridgelines at the transition from the gable to adjacent clear span trusses.

In accordance with ANSI/TPI 1 the Building Designer, through the Construction Documents, shall provide the location, direction, and magnitude of all loads attributable to ponding that may occur due to the design of the roof drainage system. The Building Designer shall also specify any dead load, live load, and in-service creep deflection criteria for flat or low-slope roofs subject to ponding loads.

The amount of camber is dependent on the truss type, span, loading, application, etceteras.

More restrictive limits for allowable deflection and slenderness ratio (L/D) may be required to help control vibration.

The following tables are provided as guidelines for limiting deflection and estimating camber. Conditions or codes may exist that require exceeding these recommendations, or past experience may warrant using more stringent limitations.

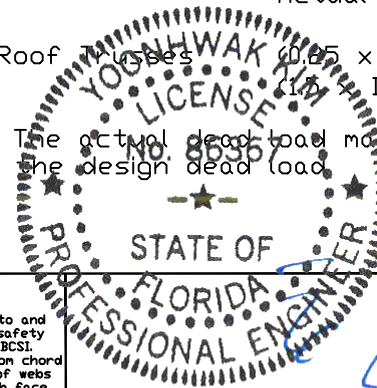
L = Span of Truss (inches)
D = Depth of Truss at Deflection Point (inches)

Recommended Truss Deflection Limits

Truss Type	L/D	Deflection Limits	
		Live Load	Total Load
Pitched Roof Trusses	24	L/240 (vertical)	L/180 (vertical)
Floor of Room-In-Attic Trusses	24	L/360 (vertical)	L/240 (vertical)
Flat or Shallow Pitched Roof Trusses	24	L/360 (vertical)	L/240 (vertical)
Residential Floor Trusses	24	L/360 (vertical)	L/240 (vertical)
Commercial Floor Trusses	20	L/480 (vertical)	L/240 (vertical)
Scissors Trusses	24	0.75" (horizontal)	1.25" (horizontal)

Truss Type	Recommended Camber
Pitched Trusses	1.00 x Deflection from Actual Dead Load
Sloping Parallel Chord Trusses	1.5 x Vertical Deflection from Actual Dead Load
Floor Trusses	(0.25 x Deflection from Live Load) + Actual Dead Load
Flat Roof Trusses	(0.25 x Deflection from Live Load) + Design Dead Load Deflection

Note: The actual dead load may be considerably less than the design dead load.



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10/06/2025
COA#0-278, Yoonhwak Kim, FL PE #86367

Florida Certificate of Product Approval #FL 1999

REF	DEFLEC/CAMB
DATE	10/01/14
DRWG	DEFLCAMB1014