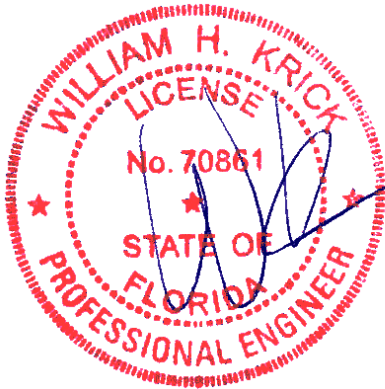




Alpine, an ITW Company
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025
Phone: (800)755-6001
www.alpineitw.com



APPROVED

By troy crews at 7:37 am, Apr 29, 2025

This item has been digitally signed by William H. Krick on the date adjacent to the seal.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

COA #0 278

Florida Certificate of Product Approval #FL 1999

03/03/2025

Site Information:	Page 1:
Customer: W. B. Howland Company, Inc.	Job Number: 25-2310
Job Description: GRAHAM RESIDENCE	
Address:	

Job Engineering Criteria:			
Design Code: FBC 8th Ed. 2023 Res.		IntelliVIEW Version: 23.02.04	
		JRef #: 1Y7Z2150005	
Wind Standard: ASCE 7-22	Wind Speed (mph): 130	Design Loading (psf): 40.00	
Building Type: Closed			

This package contains general notes pages, 32 truss drawing(s) and 2 detail(s).

Item	Drawing Number	Truss	Item	Drawing Number	Truss
1	062.25.1117.46004	A01	2	062.25.1117.45988	A02
3	062.25.1304.58253	A03	4	062.25.1304.59800	A04
5	062.25.1305.01330	A05	6	062.25.1305.02950	A06
7	062.25.1305.04523	A07	8	062.25.1305.06087	A08
9	062.25.1305.07653	A09	10	062.25.1305.09193	A10
11	062.25.1305.10840	A11	12	062.25.1305.24243	A12
13	062.25.1305.26110	A13	14	062.25.1305.27767	A14
15	062.25.1305.29500	A15	16	062.25.1305.31433	A16
17	062.25.1305.32717	B01	18	062.25.1305.33773	B02
19	062.25.1305.35763	B03	20	062.25.1305.37150	B04
21	062.25.1305.38507	B05	22	062.25.1305.39610	C01
23	062.25.1305.40770	C02	24	062.25.1305.41937	HJ01
25	062.25.1305.42793	J02	26	062.25.1305.46093	J03
27	062.25.1305.46977	J04	28	062.25.1305.47840	J05
29	062.25.1305.48720	J06	30	062.25.1305.49620	J07
31	062.25.1305.50537	J08	32	062.25.1305.51660	J09
33	BRCLBSUB0119		34	CNNAILSP1014	

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.

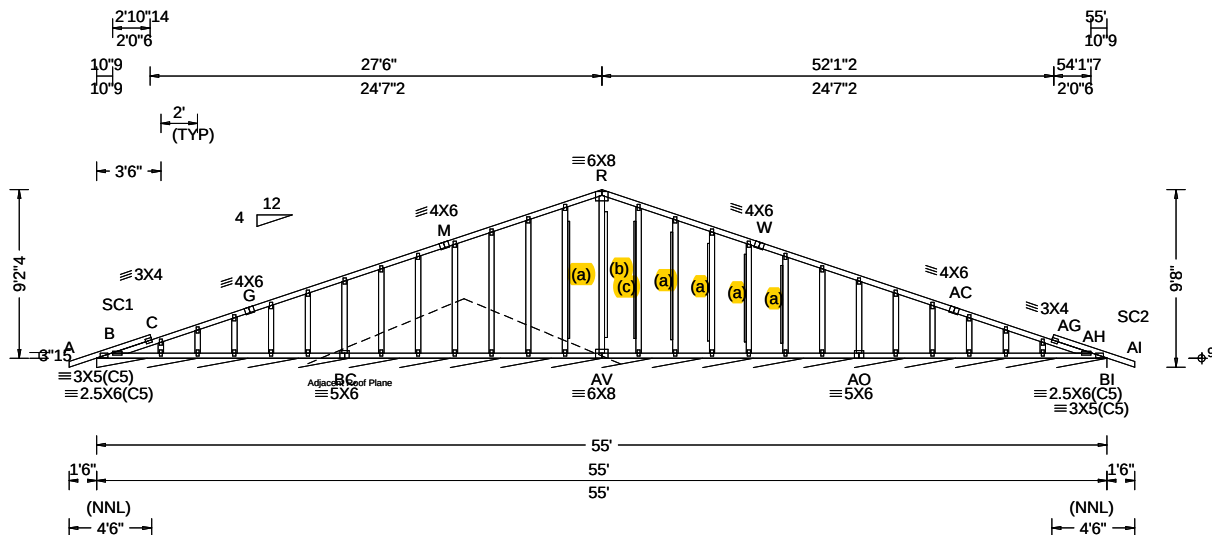
W = Width of non-hanger bearing, in inches.

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



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 5.50 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	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: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.001 B 999 240 VERT(CL): 0.003 B 999 180 HORZ(LL): -0.000 E - - HORZ(TL): 0.007 Z - - Creep Factor: 2.0 Max TC CSI: 0.225 Max BC CSI: 0.053 Max Web CSI: 0.510 VIEW Ver: 23.02.04.0123.14	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL BI* 85 /- /- /44 /16 /4 Wind reactions based on MWFRS BI Brg Wid = 660 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;
Stack Chord: SC1 2x4 SP #2;
Stack Chord: SC2 2x4 SP #2;

Plating Notes

All plates are 2X4 except as noted.

Purlins

In lieu of structural panels use purlins to brace TC @ 24" oc.

Wind

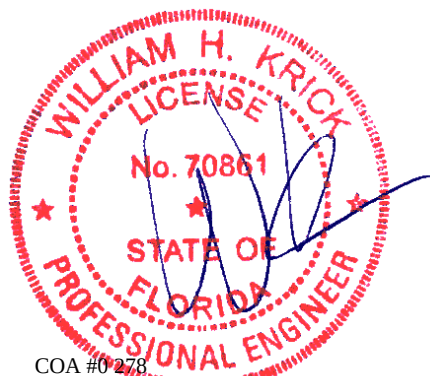
Wind loads based on MWFRS with additional C&C member design.

Wind loading based on both gable and hip roof types.

Gable meets L/120 deflection criteria for wind load applied to face. Calculated deflection ratio is L/163.

Gable Reinforcement

- 1x4 "L" reinforcement. Any species and grade. 80% length of web member. Attach with 10d (0.131"x3", min.) nails @ 2" oc at each end for the first 18" and then 4" oc for the remainder.
- 2x4 "L" reinforcement. Any species and grade. 80% length of web member. Attach with 10d (0.131"x3", min.) nails @ 2" oc at each end for the first 18" and then 4" oc for the remainder.
- 1x4 "L" reinforcement. Same species and grade as web. 80% length of web member. Attach with 10d (0.131"x3", min.) nails @ 2" oc at each end for the first 18" and then 4" oc for the remainder.



COA #0278

03/03/2025
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****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown on the CLR per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to Job's General Notes page for additional information.
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: sbccomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 391549 /	GABL	Ply: 1	Job Number: 25-2310	Cust: R 215 JRef:1Y7Z2150005 T7
FROM: CDM		Qty: 1	GRAHAM RESIDENCE	DrwNo: 062.25.1117.46004
Page 2 of 2			Truss Label: A01	AK / DF 03/03/2025

Additional Notes

Exposed portion of gable face shall be reinforced with sheathing and the wind pressures shall be transferred into lateral diaphragms. Connections and designs for diaphragms is the responsibility of the Building Designer in accordance with ANSI/TPI 1.

Stacked top chord must NOT be notched or cut in area (NNL). Dropped top chord braced at 24" oc intervals. Attach stacked top chord (SC) to dropped top chord in noticable area using 3x4 tie-plates 24" oc. Center plate on stacked/dropped chord interface, plate length perpendicular to chord length. Splice top chord in noticable area using 3x6.

WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.

The overall height of this truss excluding overhang is 9'-2"-4".



COA #0278

03/03/2025
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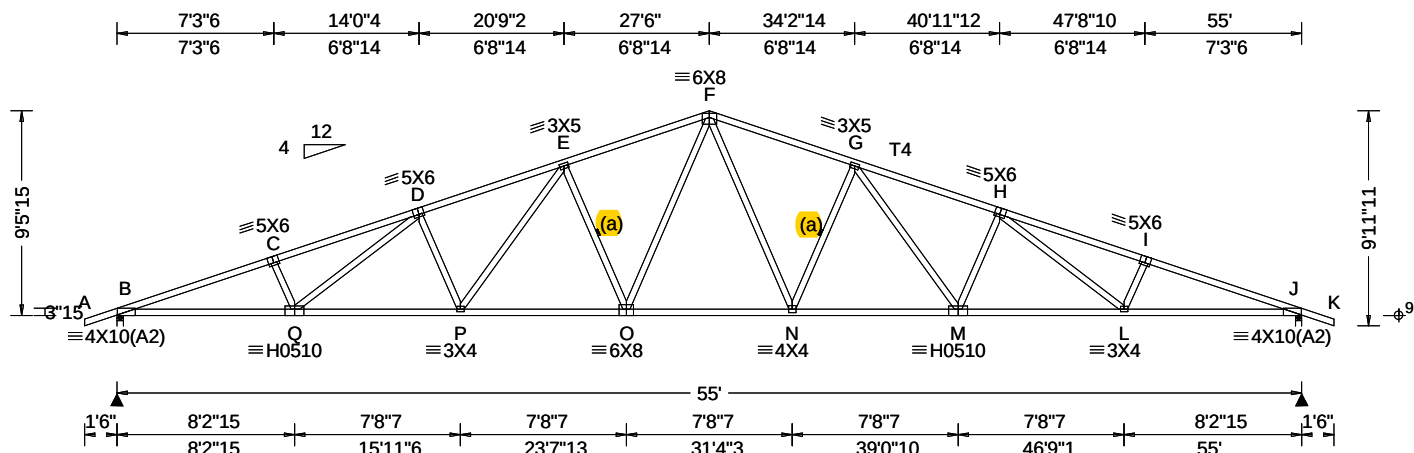
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 391551 / FROM: CDM	COMN Ply: 1 Qty: 9	Job Number: 25-2310 GRAHAM RESIDENCE Truss Label: A02	Cust: R 215 JRef: 1Y7Z2150005 T30 DrwNo: 062.25.1117.45988 AK / DF 03/03/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 5.50 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	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: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/def L/# VERT(LL): 0.534 N 999 240 VERT(CL): 1.071 N 613 180 HORZ(LL): 0.151 J - - HORZ(TL): 0.304 J - - Creep Factor: 2.0 Max TC CSI: 0.907 Max BC CSI: 0.584 Max Web CSI: 0.789 VIEW Ver: 23.02.04.0123.14	Gravity Loc R+ / R- / Rh / Rw / U / RL B 2322 - / - / - /1330 /437 /225 J 2322 - / - / - /1330 /437 - Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.9 (Truss) J Brg Wid = 3.5 Min Req = 1.9 (Truss) Bearings B & 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 2013 -5965 F - G 1601 -4004 C - D 2019 -5816 G - H 1826 -4957 D - E 1826 -4959 H - I 2019 -5817 E - F 1601 -4003 I - J 2013 -5967

Lumber

Top chord: 2x4 SP M-31; T4 2x4 SP #2;
Bot chord: 2x4 SP M-31;
Webs: 2x4 SP #3;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Wind

Wind loads based on MWFRS with additional C&C member design.

Wind loading based on both gable and hip roof types.

Additional Notes

WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.

The overall height of this truss excluding overhang is 9'-5-15".



COA #0278

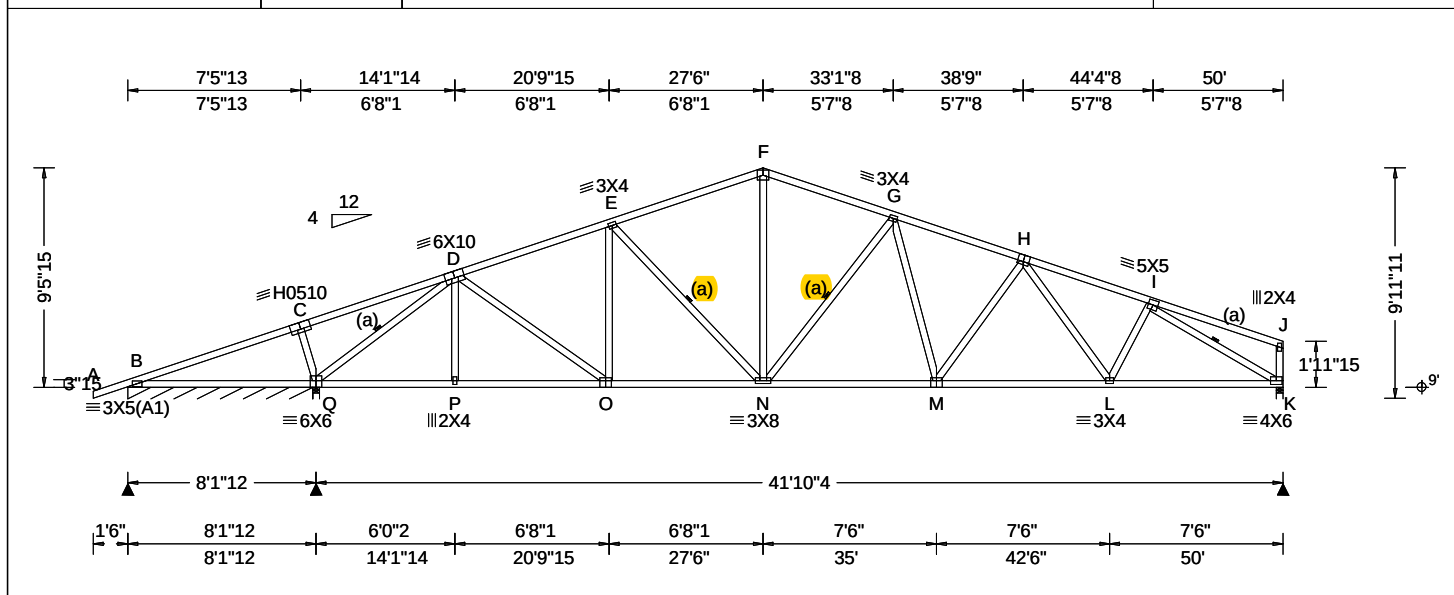
03/03/2025
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Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of 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.
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 391553 FROM: CDM	SPEC Ply: 1 Qty: 1	Job Number: 25-2310 GRAHAM RESIDENCE Truss Label: A03	Cust: R 215 JRef: 1Y7Z2150005 T5 DrwNo: 062.25.1304.58253 AK / DF 03/03/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *PLF
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 5.00 ft Loc. from endwall: not in 13.00 ft GCp: 0.18 Wind Duration: 1.60	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: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/def L/# VERT(LL): 0.161 G 999 240 VERT(CL): 0.326 G 999 180 HORZ(LL): 0.064 K - - HORZ(TL): 0.128 K - - Creep Factor: 2.0 Max TC CSI: 0.747 Max BC CSI: 0.804 Max Web CSI: 0.945 VIEW Ver: 23.02.04.0123.14	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B* 38 /-9 /- /15 /4 /26 Q 2342 /- /- /1316 /94 /- K 1640 /- /- /929 /58 /- Wind reactions based on MWFRS B Brg Wid = 96.0 Min Req = - Q Brg Wid = 3.5 Min Req = 2.8 K Brg Wid = 3.5 Min Req = 1.9 (Truss) Bearings B, Q, & K 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.

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Plating Notes

All plates are 5X6 except as noted.

Wind

Wind loads based on MWFRS with additional C&C member design.

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

Additional Notes

WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.

The overall height of this truss excluding overhang is 9'-5-15".



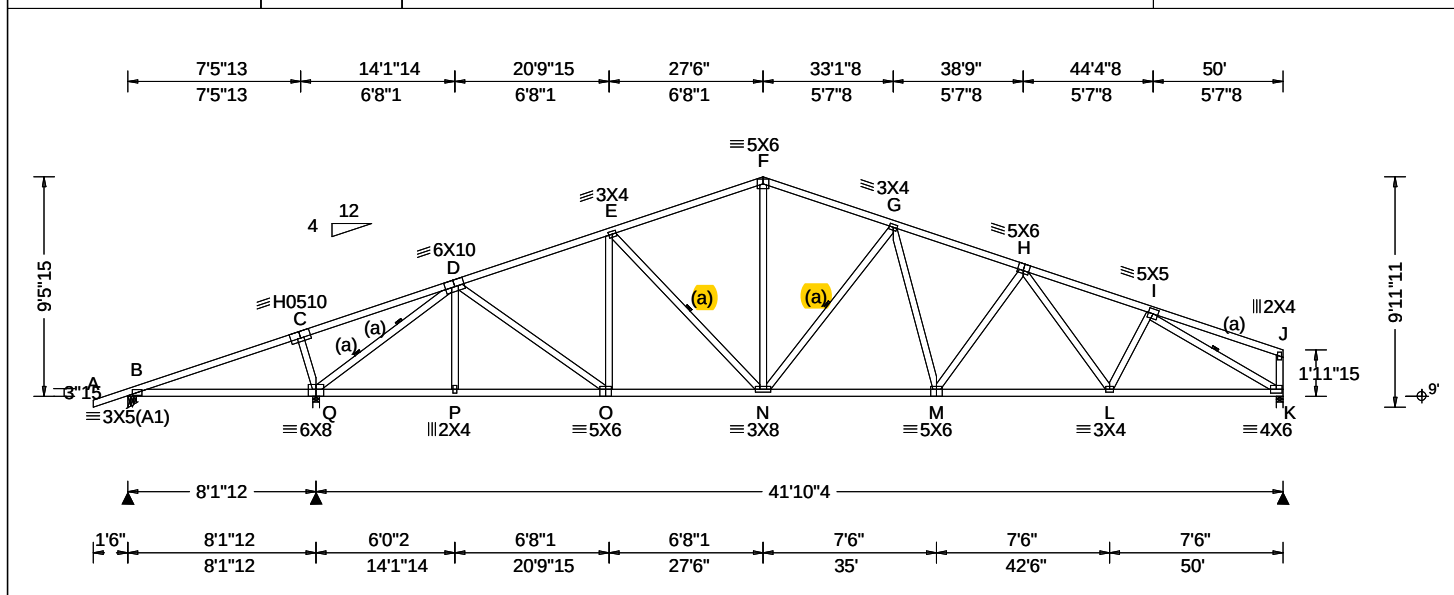
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 391643 FROM: CDM	SPEC Ply: 1 Qty: 2	Job Number: 25-2310 GRAHAM RESIDENCE Truss Label: A04	Cust: R 215 JRef: 1Y7Z2150005 T12 DrwNo: 062.25.1304.59800 AK / DF 03/03/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)			Defl/CSI Criteria			▲ Maximum Reactions (lbs)						
TCLL: 20.00	Wind Std: ASCE 7-22	Pg: NA	Ct: NA	CAT: NA	PP Deflection in loc L/defl L/#			Gravity			Non-Gravity			
TCDL: 10.00	Speed: 130 mph	Pf: NA		Ce: NA	VERT(LL):	0.197	G 999 240	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
BCLL: 0.00	Enclosure: Closed	Lu: NA	Cs: NA		VERT(CL):	0.369	G 999 180	B	266	/-107	/-	/123	/29	/210
BCDL: 10.00	Risk Category: II	Snow Duration: NA			HORZ(LL):	0.077	K - -	Q	2539	/-	/-	/1316	/94	/-
Des Ld: 40.00	EXP: C Kzt: NA				HORZ(TL):	0.144	K - -	K	1809	/-	/-	/929	/58	/-
NCBCLL: 10.00	Mean Height: 15.00 ft	Building Code:			Creep Factor: 2.0			Wind reactions based on MWFRS						
Soffit: 2.00	TCDL: 5.0 psf	FBC 8th Ed. 2023 Res.			Max TC CSI: 0.774			B Brg Wid = 4.5 Min Req = 1.5 (Truss)						
Load Duration: 1.25	BCDL: 5.0 psf	TPI Std: 2014			Max BC CSI: 0.967			Q Brg Wid = 3.5 Min Req = 3.0						
Spacing: 24.0 "	MWFRS Parallel Dist: h to 2h	Rep Fac: Yes			Max Web CSI: 0.860			K Brg Wid = 3.5 Min Req = 2.1 (Truss)						
	C&C Dist a: 5.00 ft	FT/RT:20(0)/10(0)						Bearings B, Q, & K are a rigid surface.						
	Loc. from endwall: not in 13.00 ft	Plate Type(s):			VIEW Ver: 23.02.04.0123.14			Members not listed have forces less than 375#						
	GCpi: 0.18	WAVE, HS						Maximum Top Chord Forces Per Ply (lbs)						
	Wind Duration: 1.60							Chords Tens.Comp. Chords Tens. Comp.						

Lumber

Top chord: 2x4 SP #2;
 Bot chord: 2x4 SP #2;
 Webs: 2x4 SP #3;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.

Wind

Wind loads based on MWFRS with additional C&C member design.
 Right end vertical not exposed to wind pressure.
 Wind loading based on both gable and hip roof types.

Additional Notes

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 The overall height of this truss excluding overhang is 9'-5-15.



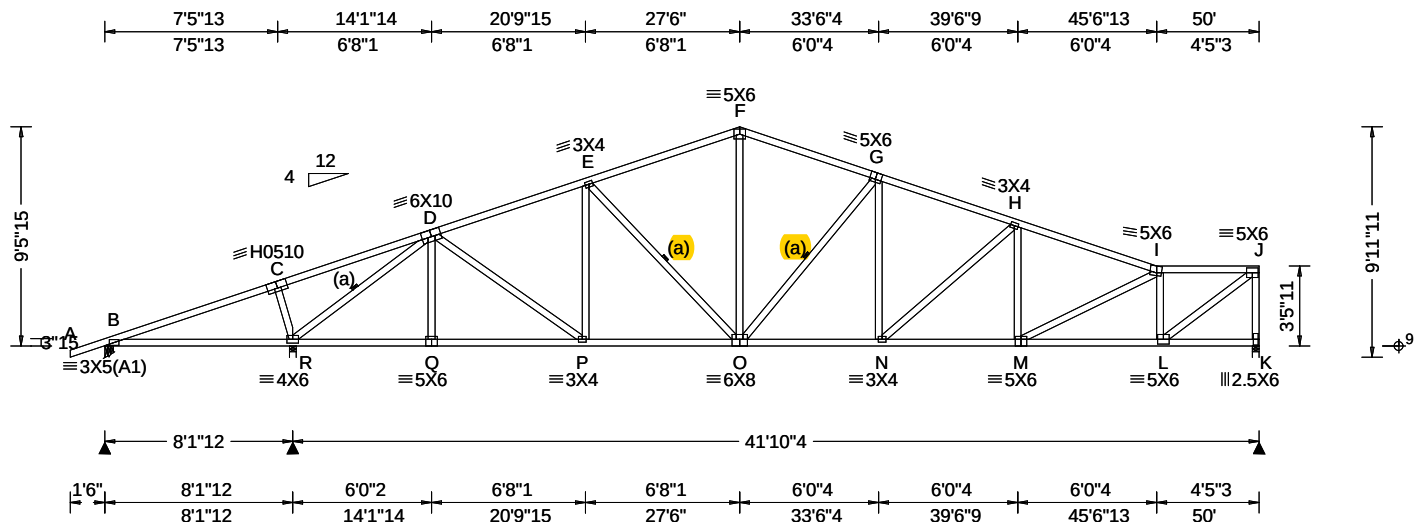
COA #0278

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ALPINE
 AN ITW COMPANY
 155 Harlem Ave
 North Building, 4th Floor
 Glenview, IL 60025

SEQN: 391641 FROM: CDM	SPEC Ply: 1 Qty: 1	Job Number: 25-2310 GRAHAM RESIDENCE Truss Label: A05	Cust: R 215 JRef: 1Y7Z2150005 T25 DrwNo: 062.25.1305.01330 AK / DF 03/03/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 5.00 ft Loc. from endwall: not in 13.00 ft GCp: 0.18 Wind Duration: 1.60	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: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/def L/# VERT(LL): 0.163 N 999 240 VERT(CL): 0.329 N 999 180 HORZ(LL): 0.055 K - - HORZ(TL): 0.112 K - - Creep Factor: 2.0 Max TC CSI: 0.746 Max BC CSI: 0.702 Max Web CSI: 0.946 VIEW Ver: 23.02.04.0123.14	Gravity Loc R+ / R- / Rh / Rw / U / RL B 301 /-72 /- /124 /24 /215 R 2349 /- /- /1319 /104 /- K 1642 /- /- /888 /70 /- Non-Gravity Wind reactions based on MWFRS B Brg Wid = 4.5 Min Req = 1.5 (Truss) R Brg Wid = 3.5 Min Req = 2.4 (Truss) K Brg Wid = 3.5 Min Req = 1.9 (Truss) Bearings B, R, & K 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.

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Purlins

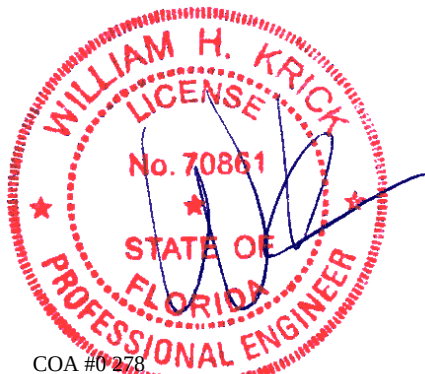
In lieu of structural panels use purlins to brace all flat TC @ 24" oc.

Wind

Wind loads based on MWFRS with additional C&C member design.
Right end vertical not exposed to wind pressure.
Wind loading based on both gable and hip roof types.

Additional Notes

WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.
The overall height of this truss excluding overhang is 9'-5-15".



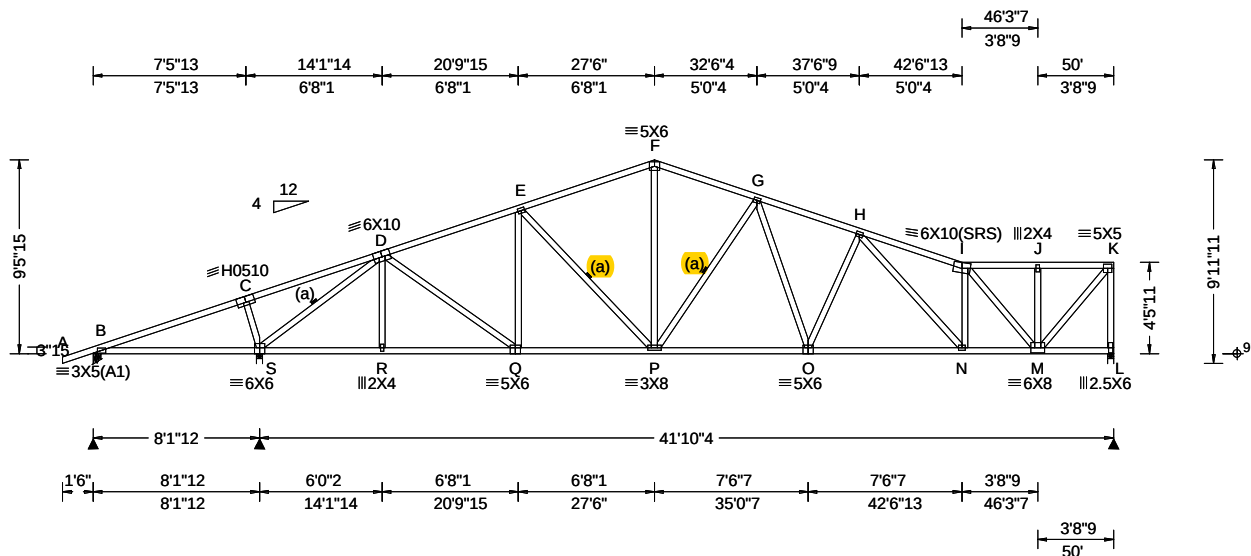
COA #0278

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

SEQN: 391638 FROM: CDM	SPEC Ply: 1 Qty: 1	Job Number: 25-2310 GRAHAM RESIDENCE Truss Label: A06	Cust: R 215 JRef: 1Y7Z2150005 T31 DrwNo: 062.25.1305.02950 AK / DF 03/03/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 5.00 ft Loc. from endwall: not in 13.00 ft GCp: 0.18 Wind Duration: 1.60	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: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/def L/# VERT(LL): 0.157 G 999 240 VERT(CL): 0.317 G 999 180 HORZ(LL): 0.057 M - - HORZ(TL): 0.115 M - - Creep Factor: 2.0 Max TC CSI: 0.742 Max BC CSI: 0.775 Max Web CSI: 0.943 VIEW Ver: 23.02.04.0123.14	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity B 305 /-65 /- /127 /23 /219 S 2341 /- /- /1321 /116 /- L 1644 /- /- /864 /114 /- Wind reactions based on MWFRS B Brg Wid = 4.5 Min Req = 1.5 (Truss) S Brg Wid = 3.5 Min Req = 2.8 L Brg Wid = 3.5 Min Req = 1.9 (Truss) Bearings B, S, & 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.

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Plating Notes

All plates are 3X4 except as noted.

Purlins

In lieu of structural panels use purlins to brace all flat TC @ 24" oc.

Wind

Wind loads based on MWFRS with additional C&C member design.

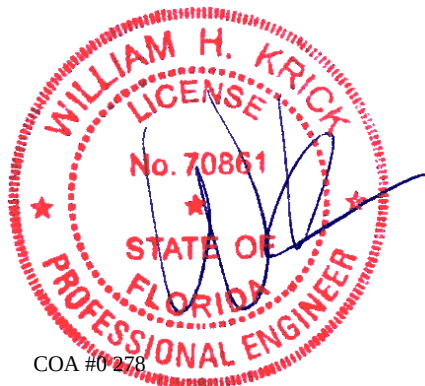
Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

Additional Notes

WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.

The overall height of this truss excluding overhang is 9-5-15.



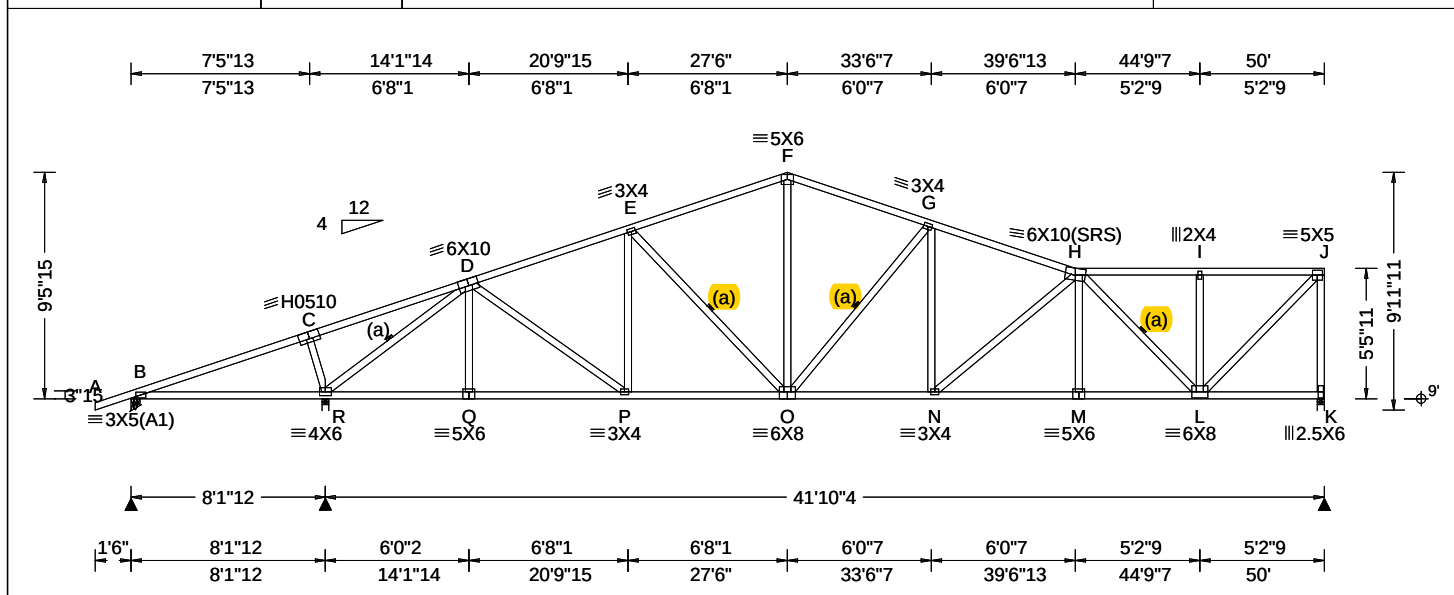
COA #0278

03/03/2025
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AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 391635 FROM: CDM	SPEC Ply: 1 Qty: 1	Job Number: 25-2310 GRAHAM RESIDENCE Truss Label: A07	Cust: R 215 JRef: 1Y7Z2150005 T32 DrwNo: 062.25.1305.04523 AK / DF 03/03/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 5.00 ft Loc. from endwall: not in 13.00 ft GCp: 0.18 Wind Duration: 1.60	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: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/def L/# VERT(LL): 0.158 N 999 240 VERT(CL): 0.318 N 999 180 HORZ(LL): 0.055 L - - HORZ(TL): 0.112 L - - Creep Factor: 2.0 Max TC CSI: 0.740 Max BC CSI: 0.703 Max Web CSI: 0.942 VIEW Ver: 23.02.04.0123.14	Gravity Loc R+ / R- / Rh / Rw / U / RL B 305 /-65 /- /126 /23 /223 R 2341 /- /- /1331 /133 /- K 1644 /- /- /844 /154 /- Non-Gravity B Brg Wid = 4.5 Min Req = 1.5 (Truss) R Brg Wid = 3.5 Min Req = 2.4 (Truss) K Brg Wid = 3.5 Min Req = 1.9 (Truss) Bearings B, R, & K 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.

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Purlins

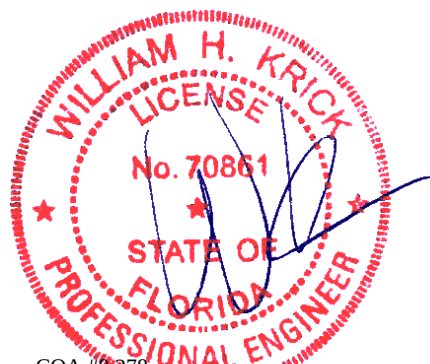
In lieu of structural panels use purlins to brace all flat TC @ 24" oc.

Wind

Wind loads based on MWFRS with additional C&C member design.
Right end vertical not exposed to wind pressure.
Wind loading based on both gable and hip roof types.

Additional Notes

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The overall height of this truss excluding overhang is 9'-5-15.



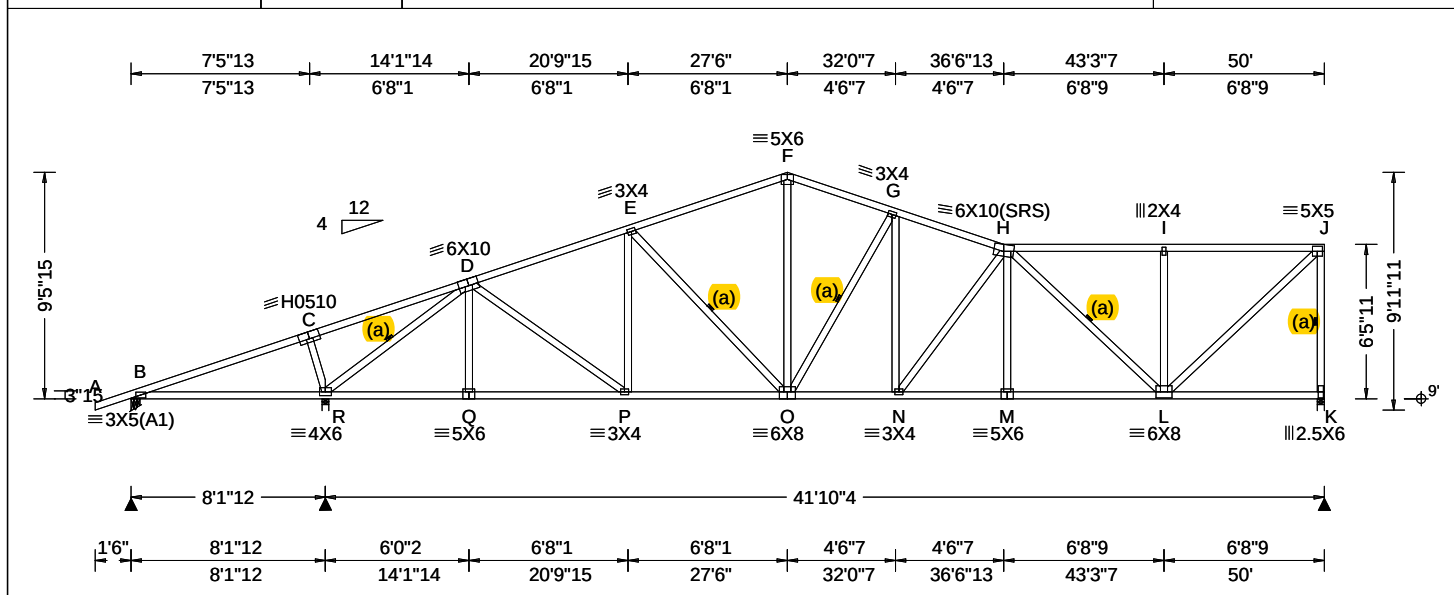
COA #0278

03/03/2025
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 391632 FROM: CDM	SPEC Ply: 1 Qty: 1	Job Number: 25-2310 GRAHAM RESIDENCE Truss Label: A08	Cust: R 215 JRef: Y17Z2150005 T33 DrwNo: 062.25.1305.06087 AK / DF 03/03/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 5.00 ft Loc. from endwall: not in 13.00 ft GCp: 0.18 Wind Duration: 1.60	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: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/def L/# VERT(LL): 0.156 N 999 240 VERT(CL): 0.315 N 999 180 HORZ(LL): 0.052 L - - HORZ(TL): 0.104 L - - Creep Factor: 2.0 Max TC CSI: 0.824 Max BC CSI: 0.753 Max Web CSI: 0.939 VIEW Ver: 23.02.04.0123.14	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity B 307 /-61 /- /127 /22 /226 R 2336 /- /- /1341 /153 /- K 1645 /- /- /842 /192 /- Wind reactions based on MWFRS B Brg Wid = 4.5 Min Req = 1.5 (Truss) R Brg Wid = 3.5 Min Req = 2.4 (Truss) K Brg Wid = 3.5 Min Req = 1.9 (Truss) Bearings B, R, & K 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.

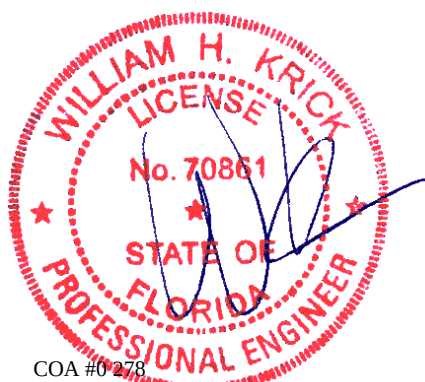
Lumber	
Top chord: 2x4 SP #2; Bot chord: 2x4 SP #2; Webs: 2x4 SP #3;	B - C 708 -227 F - G 427 -1951 C - D 816 -199 G - H 506 -2325 D - E 360 -2142 H - I 440 -1554 E - F 438 -1981 I - J 440 -1554

Bracing	
(a) Continuous lateral restraint equally spaced on member.	

Purlins	
In lieu of structural panels use purlins to brace all flat TC @ 24" oc.	

Wind	
Wind loads based on MWFRS with additional C&C member design. Right end vertical not exposed to wind pressure. Wind loading based on both gable and hip roof types.	

Additional Notes	
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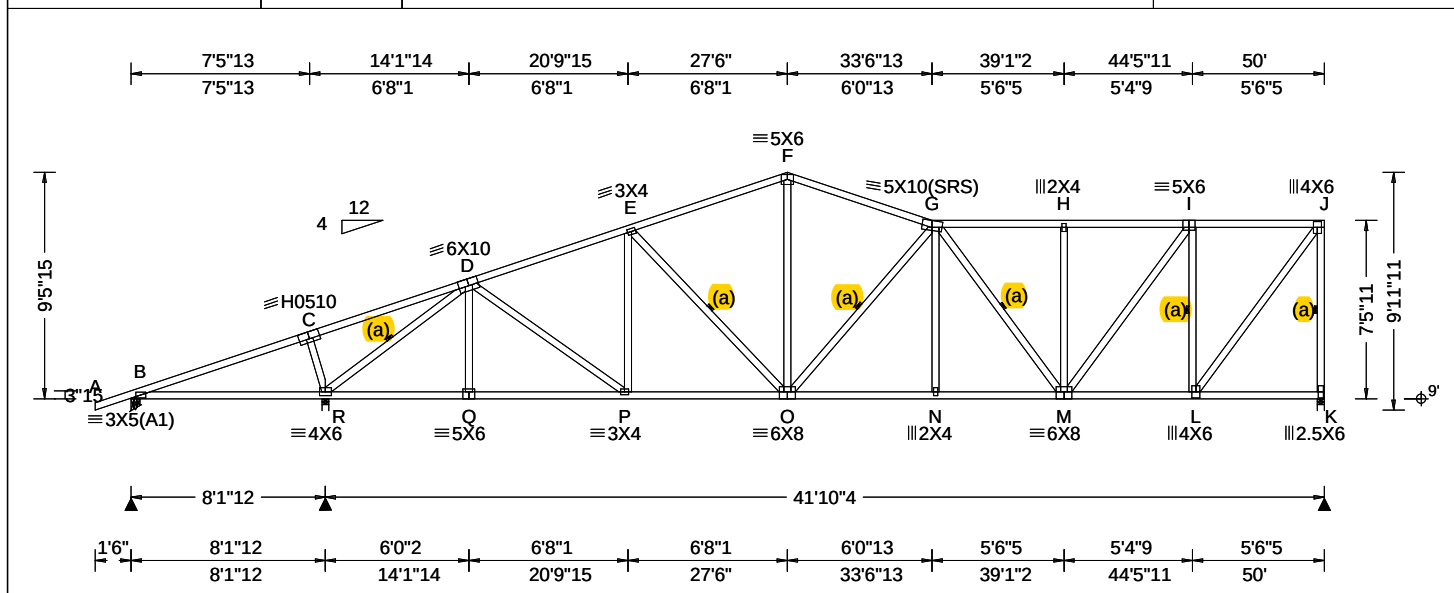
COA #0278

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SEQN: 391629 FROM: CDM	SPEC Ply: 1 Qty: 1	Job Number: 25-2310 GRAHAM RESIDENCE Truss Label: A09	Cust: R 215 JRef: 1Y7Z2150005 T34 DrwNo: 062.25.1305.07653 AK / DF 03/03/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 5.00 ft Loc. from endwall: not in 13.00 ft GCp: 0.18 Wind Duration: 1.60	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: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/def L/# VERT(LL): 0.147 N 999 240 VERT(CL): 0.296 N 999 180 HORZ(LL): 0.049 L - - HORZ(TL): 0.098 L - - Creep Factor: 2.0 Max TC CSI: 0.730 Max BC CSI: 0.704 Max Web CSI: 0.934 VIEW Ver: 23.02.04.0123.14	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity B 312 /-52 /- /130 /21 /230 R 2325 /- /- /1352 /177 /- K 1646 /- /- /850 /226 /- Wind reactions based on MWFRS B Brg Wid = 4.5 Min Req = 1.5 (Truss) R Brg Wid = 3.5 Min Req = 2.4 (Truss) K Brg Wid = 3.5 Min Req = 1.9 (Truss) Bearings B, R, & K 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.

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Purlins

In lieu of structural panels use purlins to brace all flat TC @ 24" oc.

Wind

Wind loads based on MWFRS with additional C&C member design.
Right end vertical not exposed to wind pressure.
Wind loading based on both gable and hip roof types.

Additional Notes

WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.
The overall height of this truss excluding overhang is 9'-5-15.



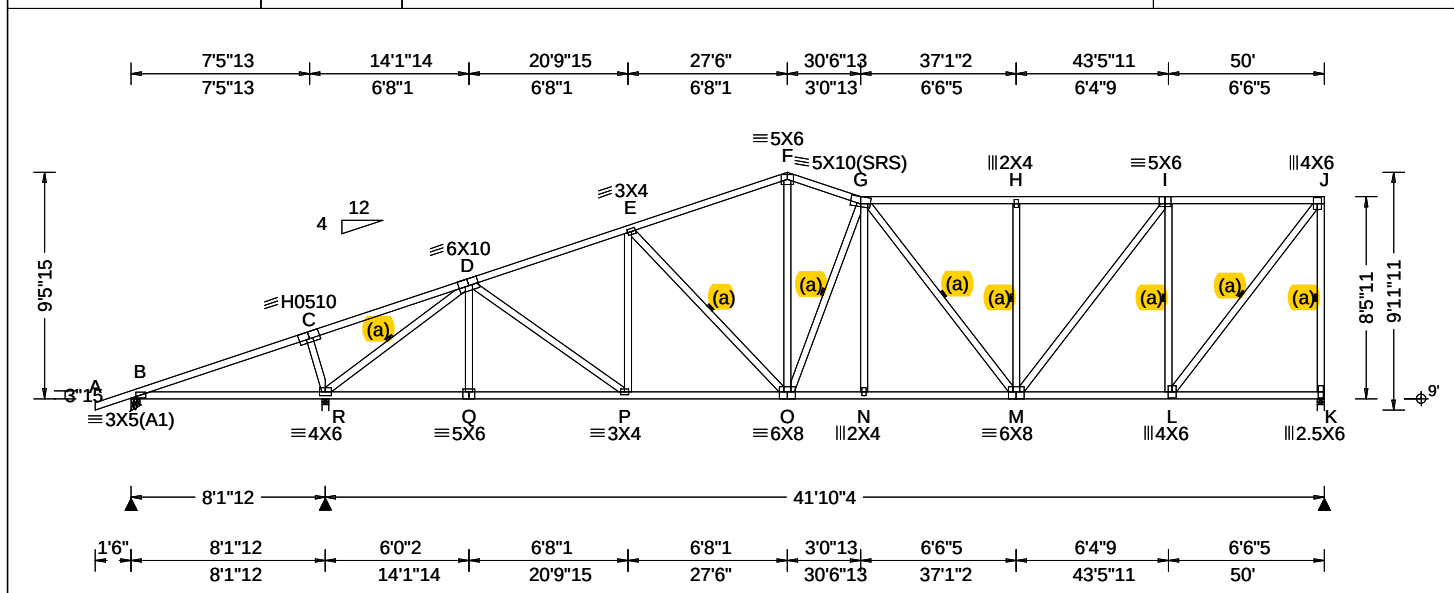
COA #0278

03/03/2025
Florida Certificate of Product Approval #FL 1999

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

SEQN: 391626 FROM: CDM	SPEC Ply: 1 Qty: 1	Job Number: 25-2310 GRAHAM RESIDENCE Truss Label: A10	Cust: R 215 JRef: 1Y7Z2150005 T14 DrwNo: 062.25.1305.09193 AK / DF 03/03/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 5.00 ft Loc. from endwall: not in 13.00 ft GCp: 0.18 Wind Duration: 1.60	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: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/def L/# VERT(LL): 0.143 N 999 240 VERT(CL): 0.288 N 999 180 HORZ(LL): 0.045 L - - HORZ(TL): 0.090 L - - Creep Factor: 2.0 Max TC CSI: 0.740 Max BC CSI: 0.706 Max Web CSI: 0.981 VIEW Ver: 23.02.04.0123.14	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity B 317 /-43 /- /133 /20 /233 R 2314 /- /- /1364 /203 /- K 1648 /- /- /868 /257 /- Wind reactions based on MWFRS B Brg Wid = 4.5 Min Req = 1.5 (Truss) R Brg Wid = 3.5 Min Req = 2.4 (Truss) K Brg Wid = 3.5 Min Req = 1.9 (Truss) Bearings B, R, & K 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.

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Purlins

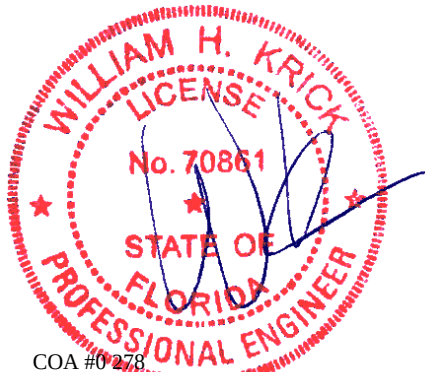
In lieu of structural panels use purlins to brace all flat TC @ 24" oc.

Wind

Wind loads based on MWFRS with additional C&C member design.
Right end vertical not exposed to wind pressure.
Wind loading based on both gable and hip roof types.

Additional Notes

WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.
The overall height of this truss excluding overhang is 9'-5-15.



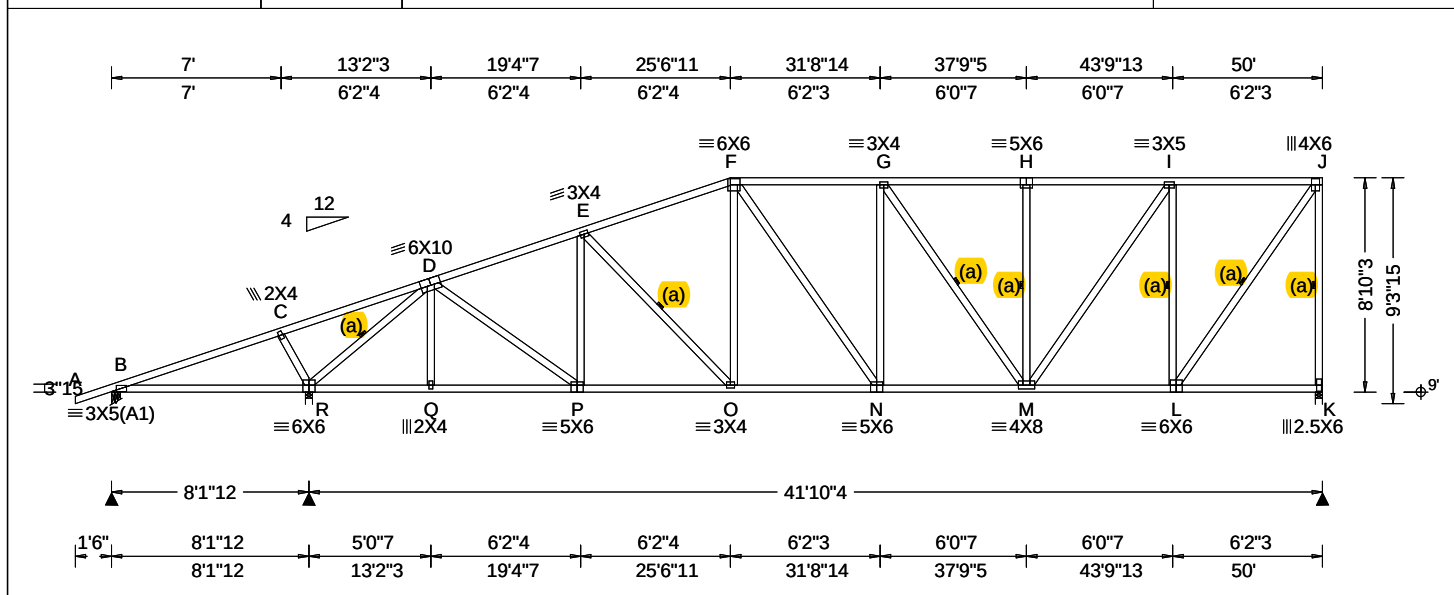
COA #0278

03/03/2025
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Glenview, IL 60025

SEQN: 391557 FROM: CDM	HIPM Qty: 1	Ply: 1 Qty: 1	Job Number: 25-2310 GRAHAM RESIDENCE Truss Label: A11	Cust: R 215 JRef: 1Y7Z2150005 T11 DrwNo: 062.25.1305.10840 AK / DF 03/03/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 5.00 ft Loc. from endwall: not in 13.00 ft GCp: 0.18 Wind Duration: 1.60	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: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.127 N 999 240 VERT(CL): 0.256 N 999 180 HORZ(LL): 0.042 L - - HORZ(TL): 0.084 L - - Creep Factor: 2.0 Max TC CSI: 0.834 Max BC CSI: 0.626 Max Web CSI: 0.759 VIEW Ver: 23.02.04.0123.14	Gravity Loc R+ / R- / Rh / Rw / U / RL B 298 /-64 /- /118 /15 /221 R 2344 /- /- /1392 /254 /- K 1644 /- /- /869 /291 /- Non-Gravity B Brg Wid = 4.5 Min Req = 1.5 (Truss) R Brg Wid = 3.5 Min Req = 2.8 K Brg Wid = 3.5 Min Req = 1.9 (Truss) Bearings B, R, & K 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.

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Purlins

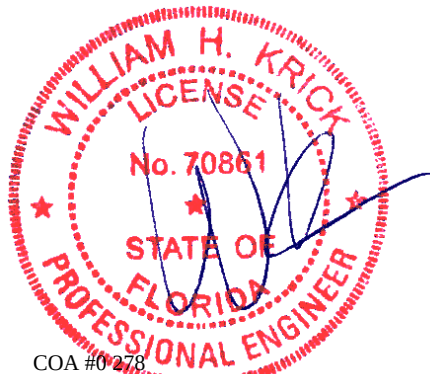
In lieu of structural panels use purlins to brace all flat TC @ 24" oc.

Wind

Wind loads based on MWFRS with additional C&C member design.
Right end vertical not exposed to wind pressure.
Wind loading based on both gable and hip roof types.

Additional Notes

WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.
The overall height of this truss excluding overhang is 8'-10-3/8".



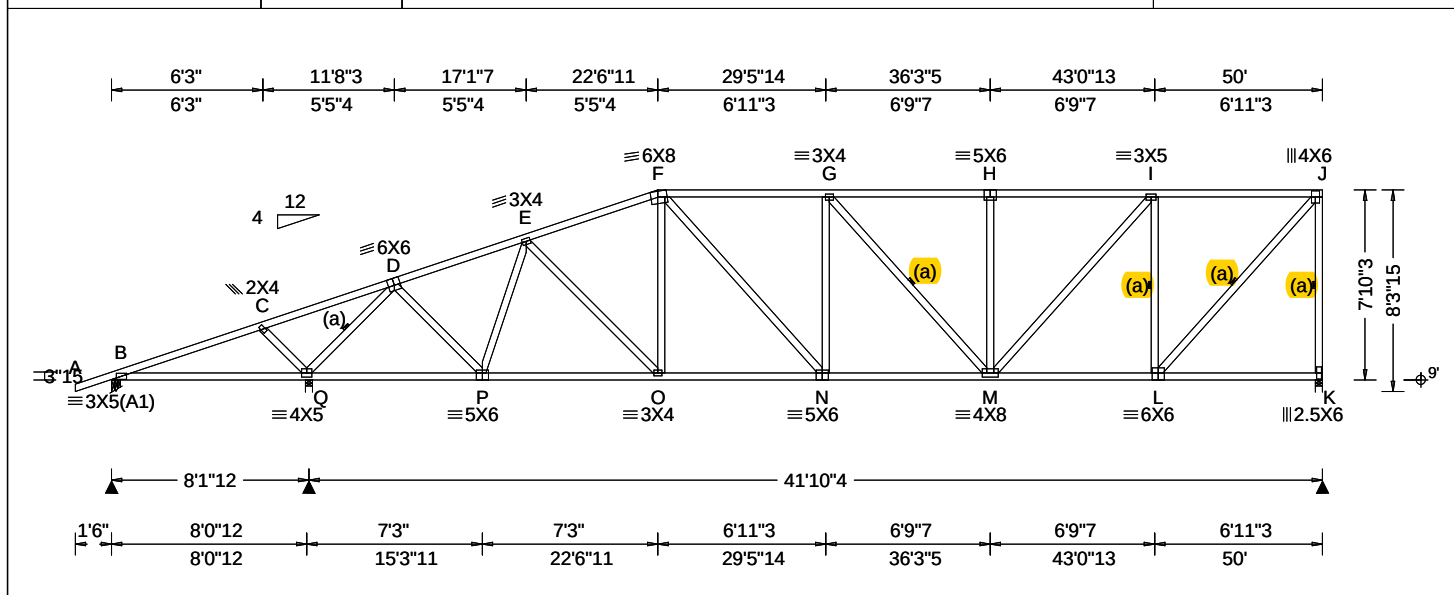
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Glenview, IL 60025

SEQN: 391559 FROM: CDM	HIPM Qty: 1	Ply: 1 Qty: 1	Job Number: 25-2310 GRAHAM RESIDENCE Truss Label: A12	Cust: R 215 JRef: 1Y7Z2150005 T10 DrwNo: 062.25.1305.24243 AK / DF 03/03/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 5.00 ft Loc. from endwall: not in 13.00 ft GCp: 0.18 Wind Duration: 1.60	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: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.140 G 999 240 VERT(CL): 0.282 G 999 180 HORZ(LL): 0.040 L - - HORZ(TL): 0.080 L - - Creep Factor: 2.0 Max TC CSI: 0.870 Max BC CSI: 0.644 Max Web CSI: 0.720 VIEW Ver: 23.02.04.0123.14	Gravity Loc R+ / R- / Rh / Rw / U / RL B 242 /-143 /- /86 /29 /196 Q 2446 /- /- /1427 /268 /- K 1633 /- /- /850 /287 /- Non-Gravity Wind reactions based on MWFRS B Brg Wid = 4.5 Min Req = 1.5 (Truss) Q Brg Wid = 3.5 Min Req = 2.5 (Truss) K Brg Wid = 3.5 Min Req = 1.9 (Truss) Bearings B, Q, & K 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.

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Purlins

In lieu of structural panels use purlins to brace all flat TC @ 24" oc.

Wind

Wind loads based on MWFRS with additional C&C member design.
Right end vertical not exposed to wind pressure.
Wind loading based on both gable and hip roof types.

Additional Notes

WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.
The overall height of this truss excluding overhang is 7'-10-3.



COA #0278

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North Building, 4th Floor
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The drawing illustrates a roof truss system with the following details:

- Dimensions:**
 - Top horizontal dimensions: 70'12", 13'3"11", 19'6"11", 25'8"13", 31'9"2", 37'9"8", 43'9"14, 50'.
 - Bottom horizontal dimensions: 8'1"12", 41'10"4", 8'1"12", 5'1"15", 6'3", 6'2"2", 6'0"6", 6'0"6", 6'0"6, 6'2"2.
 - Vertical dimensions on the right: 6'10"3, 7'3"15, 6'9".
- Members and Connections:**
 - Top chord: 6X6 (E), 3X4 (F), 5X6 (G), 2X4 (H), 5X6 (I), 5X5 (J).
 - Bottom chord: 3X5 (A1), 4X6 (R), 5X6 (Q), 3X4 (P), 5X6 (O), 3X4 (N), 6X8 (M), 5X5 (L), 2.5X6 (K).
 - Vertical members: 5X10 (D), H0510 (C), 5X6 (Q), 3X4 (P), 5X6 (O), 3X4 (N), 6X8 (M), 5X5 (L), 2.5X6 (K).
 - Diagonal members: 5X10 (D), H0510 (C), 5X6 (Q), 3X4 (P), 5X6 (O), 3X4 (N), 6X8 (M), 5X5 (L), 2.5X6 (K).
 - Connections are marked with (a) and (b).
- Notes:**
 - 1. All dimensions are in feet and inches.
 - 2. All members are made of steel.
 - 3. All connections are made with bolts.

Lumber	B - C	F - G
Top chord: 2x4 SP #2;	857 - 373	832 - 2521
Bot chord: 2x4 SP #2;	994 - 365	708 - 2154
Webbs: 2x4 SP #3;	617 - 2064	708 - 2154
	828 - 2431	465 - 1315

(a) Continuous lateral restraint equally spaced on member

In lieu of structural panels use purlins to brace all flat
TC @ 24" oc.

Wind loads based on MWFRS with additional C&C member design.
Right end vertical not exposed to wind pressure.
Wind loading based on both gable and hip roof types.

WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.

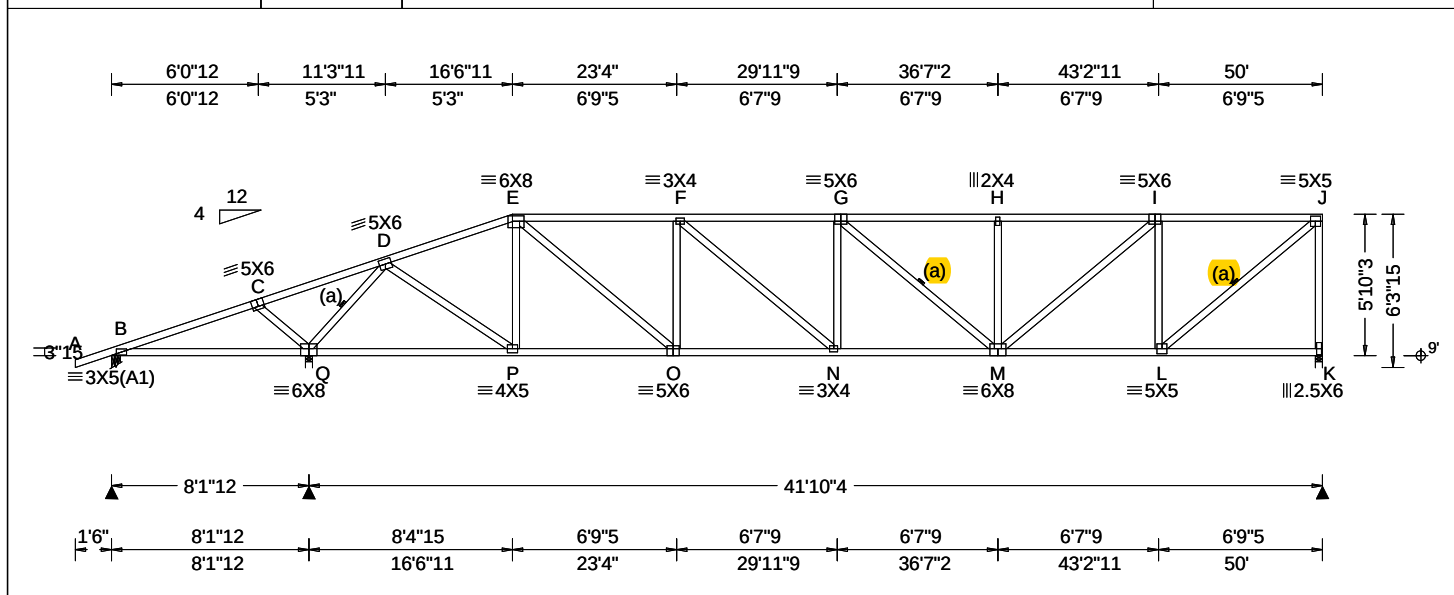
The overall height of this truss excluding overhang is 6-10-3.

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SEQN: 391563 FROM: CDM	HIPM Ply: 1 Qty: 1	Job Number: 25-2310 GRAHAM RESIDENCE Truss Label: A14	Cust: R 215 JRef: 1Y7Z2150005 T8 DrwNo: 062.25.1305.27767 AK / DF 03/03/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 5.00 ft Loc. from endwall: not in 6.50 ft GCp: 0.18 Wind Duration: 1.60	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: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.207 G 999 240 VERT(CL): 0.418 G 999 180 HORZ(LL): 0.045 E - - HORZ(TL): 0.091 E - - Creep Factor: 2.0 Max TC CSI: 0.946 Max BC CSI: 0.746 Max Web CSI: 0.948 VIEW Ver: 23.02.04.0123.14	Gravity Loc R+ / R- / Rh / Rw / U / RL B 178 /-269 /- /81 /95 /210 Q 2600 /- /- /1451 /522 /- K 1605 /- /- /818 /311 /- Non-Gravity Wind reactions based on MWFRS B Brg Wid = 4.5 Min Req = 1.5 (Truss) Q Brg Wid = 3.5 Min Req = 3.1 K Brg Wid = 3.5 Min Req = 1.9 (Truss) Bearings B, Q, & K 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.

Lumber	Maximum Bot Chord Forces Per Ply (lbs)
Top chord: 2x4 SP #2; Bot chord: 2x4 SP #2; Webs: 2x4 SP #3;	Chords Tens.Comp. Chords Tens. Comp. B - C 1297 -517 F - G 964 -2897 C - D 1516 -551 G - H 861 -2606 D - E 525 -1679 H - I 861 -2606 E - F 894 -2543 I - J 585 -1647

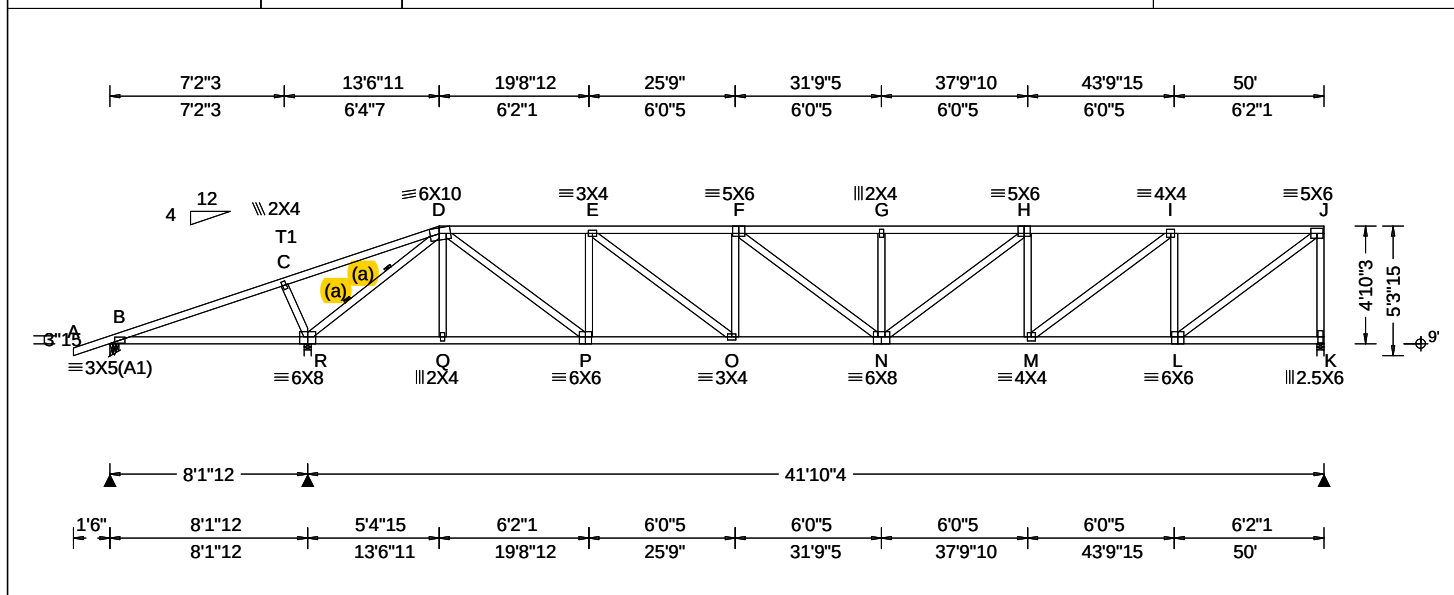
Bracing	Maximum Web Forces Per Ply (lbs)
(a) Continuous lateral restraint equally spaced on member.	Chords Tens.Comp. Chords Tens. Comp. B - Q 375 -1202 N - M 2904 -970 P - O 1547 -517 M - L 1712 -615 O - N 2580 -914
Purlins	
In lieu of structural panels use purlins to brace all flat TC @ 24" oc.	

Wind	Maximum Web Forces Per Ply (lbs)
Wind loads based on MWFRS with additional C&C member design. Right end vertical not exposed to wind pressure. Wind loading based on both gable and hip roof types.	Chords Tens.Comp. Chords Tens. Comp. C - Q 176 -419 G - M 161 -392 Q - D 887 -2737 H - M 215 -380 D - P 1454 -497 M - I 1177 -391 E - P 367 -701 I - L 568 -1231 E - O 1305 -500 L - J 2149 -764 O - F 384 -711 J - K 630 -1552 F - N 426 -157

Additional Notes	Professional Engineer Seal
Negative reaction(s) of -269# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions. WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below. The overall height of this truss excluding overhang is 5-10-3.	WILLIAM H. KRICK LICENSE No. 70861 STATE OF FLORIDA PROFESSIONAL ENGINEER COA #0278 03/03/2025 Florida Certificate of Product Approval #FL 1999

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!	ALPINE AN ITW COMPANY
IMPORTANT FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have continuous lateral restraint (CLR), installed with diagonal bracing installed on the CLR per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information. 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	155 Harlem Ave North Building, 4th Floor Glenview, IL 60025

SEQN: 391565 FROM: CDM	HIPM Ply: 1 Qty: 1	Job Number: 25-2310 GRAHAM RESIDENCE Truss Label: A15	Cust: R 215 JRef: 1Y7Z2150005 T6 DrwNo: 062.25.1305.29500 AK / DF 03/03/2025
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Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)			Defl/CSI Criteria			▲ Maximum Reactions (lbs)						
TCLL: 20.00		Wind Std: ASCE 7-22		Pg: NA Ct: NA CAT: NA			PP Deflection in loc L/defl L/#			Gravity			Non-Gravity			
TCDL: 10.00		Speed: 130 mph		Pf: NA Ce: NA			VERT(LL): 0.279 G 999 240			Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
BCLL: 0.00		Enclosure: Closed		Lu: NA Cs: NA			VERT(CL): 0.564 G 891 180			B	118	/-430	/-	/79	/176	/174
BCDL: 10.00		Risk Category: II		Snow Duration: NA			HORZ(LL): 0.054 D - -			R	2781	-	/-	/1507	/558	/-
Des Ld: 40.00		EXP: C Kzt: NA					HORZ(TL): 0.110 D - -			K	1574	/-	/-	/799	/302	/-
NCBCLL: 10.00		Mean Height: 15.00 ft		Building Code:			Creep Factor: 2.0			Wind reactions based on MWFRS						
Soffit: 2.00		TCDL: 5.0 psf		FBC 8th Ed. 2023 Res.			Max TC CSI: 0.752			B Brg Wid = 4.5 Min Req = 1.5 (Truss)						
Load Duration: 1.25		BCDL: 5.0 psf		TPI Std: 2014			Max BC CSI: 0.774			R Brg Wid = 3.5 Min Req = 3.3						
Spacing: 24.0 "		MWFRS Parallel Dist: h/2 to h		Rep Fac: Yes			Max Web CSI: 0.865			K Brg Wid = 3.5 Min Req = 1.9 (Truss)						
		C&C Dist a: 5.00 ft		FT/RT:20(0)/10(0)						Bearings B, R, & K are a rigid surface.						
		Loc. from endwall: not in 6.50 ft		Plate Type(s):						Members not listed have forces less than 375#						
		GCpi: 0.18		WAVE						Maximum Top Chord Forces Per Ply (lbs)						
		Wind Duration: 1.60					VIEW Ver: 23.02.04.0123.14			Chords Tens.Comp. Chords Tens. Comp.						

Lumber																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					</
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Bracing (a) Continuous lateral restraint equally spaced on member.	Maximum Bot Chord Forces Per Ply (lbs)				
	Chords		Tens. Comp.		
	Chords	Tens.	Comp.	Chords	Tens.

Purlins In lieu of structural panels use purlins to brace all flat TC @ 24" oc.	
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Wind Wind loads based on MWFRS with additional C&C member design. Right end vertical not exposed to wind pressure. Wind loading based on both gable and hip roof types.	
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Additional Notes Negative reaction(s) of -430# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions. WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below. The overall height of this truss excluding overhang is 4-10-3.	
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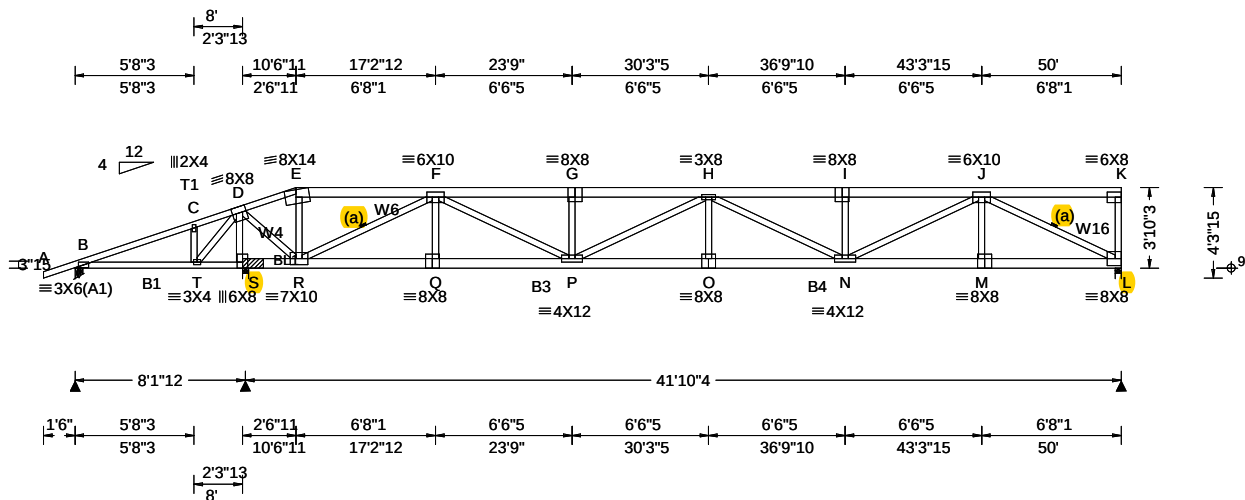
COA #0278

Florida Certificate of Product Approval #FL 1999

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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



2 Complete Trusses Required



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 5.00 ft Loc. from endwall: not in 6.50 ft GCp: 0.18 Wind Duration: 1.60	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/def L/# VERT(LL): 0.357 O 999 240 VERT(CL): 0.716 O 703 180 HORZ(LL): 0.041 L - - HORZ(TL): 0.082 L - - Creep Factor: 2.0 Max TC CSI: 0.456 Max BC CSI: 0.704 Max Web CSI: 0.823 VIEW Ver: 23.02.04.0123.14	Gravity Loc R+ / R- / Rh / Rw / U / RL B - /-1723 /- /346 /- /- S 6900 /- /- /- /1572 /- L 3761 /- /- /- /869 /- Non-Gravity B Brg Wid = 4.5 Min Req = 1.5 (Truss) S Brg Wid = 3.5 Min Req = - L Brg Wid = 3.5 Min Req = 2.2 (Truss) Bearings B, S, & 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.

Lumber
Top chord: 2x6 SP #2; T1 2x4 SP M-31;
Bot chord: 2x6 SP #2; B1 2x4 SP #2; B3,
B4 2x6 SP 2400f-2.0E;
Webs: 2x4 SP #3; W4, W6, W16 2x4 SP #2;

Bracing
(a) Continuous lateral restraint equally spaced on member.

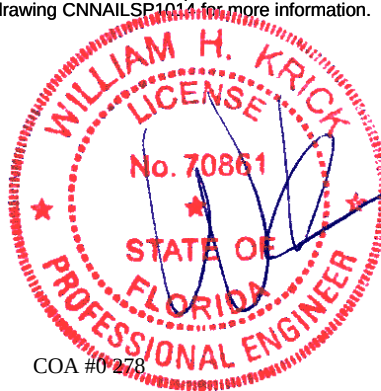
Nailnote
Nail Schedule: 0.131"x3", min. nails
Top Chord: 1 Row @ 12.00" o.c.
Bot Chord: 1 Row @ 12.00" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads
-----(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC: From 61 plf at -1.50 to 61 plf at 10.56
TC: From 31 plf at 10.56 to 31 plf at 50.00
BC: From 4 plf at -1.50 to 4 plf at 0.00
BC: From 20 plf at 0.00 to 20 plf at 10.59
BC: From 10 plf at 10.59 to 10 plf at 50.00
TC: 296 lb Conc. Load at 10.59
TC: 187 lb Conc. Load at 12.62, 14.62, 16.62, 18.62
20.62, 22.62, 24.62, 26.62, 28.62, 30.62, 32.62, 34.62
36.62, 38.62, 40.62, 42.62, 44.62, 46.62, 48.62
BC: 298 lb Conc. Load at 10.59
BC: 129 lb Conc. Load at 12.62, 14.62, 16.62, 18.62
20.62, 22.62, 24.62, 26.62, 28.62, 30.62, 32.62, 34.62
36.62, 38.62, 40.62, 42.62, 44.62, 46.62, 48.62

Purlins
In lieu of structural panels use purlins to brace all flat TC @ 24" oc.

Wind
Wind loads and reactions based on MWFRS.
Right end vertical not exposed to wind pressure.
Wind loading based on both gable and hip roof types.

Bearing Block(s)
Brg blocks: 0.131"x3", min. nails
brg x-loc #blocks length/blk #nails/blk wall plate
2 8.000' 1 12" 8 Rigid Surface
Brg block to be same size and species as chord.
Refer to drawing CENAILSP1014 for more information.



COA #0278

03/03/2025
Florida Certificate of Product Approval #FL 1999

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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

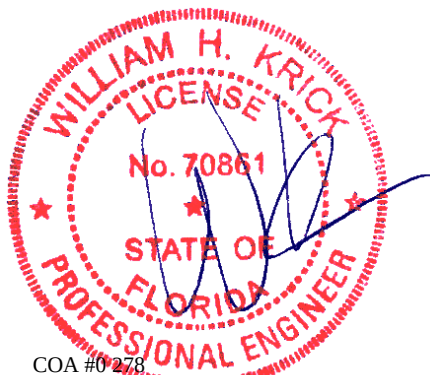
SEQN: 391623	HIPM	Ply: 2	Job Number: 25-2310	Cust: R 215 JRef: 1Y7Z2150005 T3
FROM: CDM		Qty: 1	GRAHAM RESIDENCE	DrwNo: 062.25.1305.31433
Page 2 of 2			Truss Label: A16	AK / DF 03/03/2025

Additional Notes

Negative reaction(s) of -1723# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.

The overall height of this truss excluding overhang is 3-10-3.



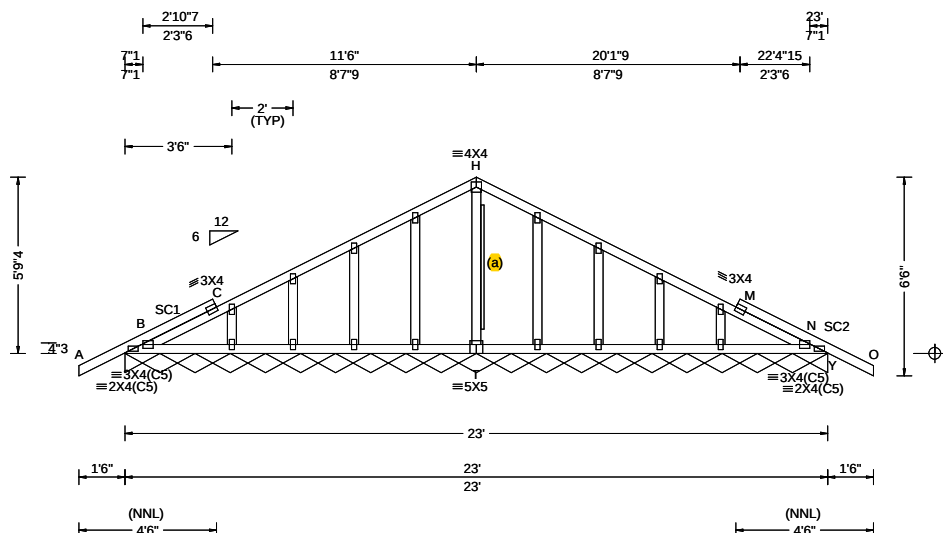
COA #0278

03/03/2025
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ALPINE
 AN ITW COMPANY
 155 Harlem Ave
 North Building, 4th Floor
 Glenview, IL 60025

SEQN: 391569 FROM: CDM	GABL Ply: 1 Qty: 1	Job Number: 25-2310 GRAHAM RESIDENCE Truss Label: B01	Cust: R 215 JRef: 1Y7Z2150005 T2 DrwNo: 062.25.1305.32717 AK / DF 03/03/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	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: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.001 C 999 240 VERT(CL): 0.002 N 999 180 HORZ(LL): 0.000 L - - HORZ(TL): 0.002 G - - Creep Factor: 2.0 Max TC CSI: 0.230 Max BC CSI: 0.049 Max Web CSI: 0.882 VIEW Ver: 23.02.04.0123.14	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL Y* 91 /- /- /46 /16 /8 Wind reactions based on MWFRS Y Brg Wid = 276 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;
Stack Chord: SC1 2x4 SP #2;
Stack Chord: SC2 2x4 SP #2;

Plating Notes

All plates are 2X4 except as noted.

Purlins

In lieu of structural panels use purlins to brace TC @ 24" oc.

Wind

Wind loads based on MWFRS with additional C&C member design.

Wind loading based on both gable and hip roof types.

Gable meets L/120 deflection criteria for wind load applied to face. Calculated deflection ratio is L/267.

Gable Reinforcement

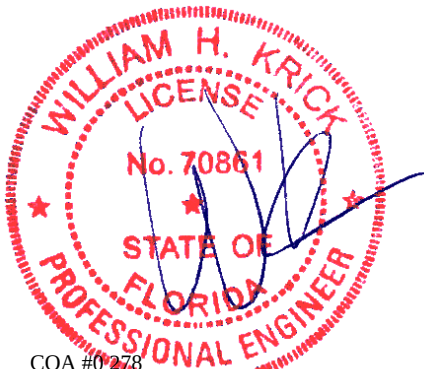
(a) 1x4 "L" reinforcement. Any species and grade. 80% length of web member. Attach with 10d (0.131"x3", min.) nails @ 2" oc at each end for the first 18" and then 4" oc for the remainder.

Additional Notes

Exposed portion of gable face shall be reinforced with sheathing and the wind pressures shall be transferred into lateral diaphragms. Connections and designs for diaphragms is the responsibility of the Building Designer in accordance with ANSI/TPI 1.

Stacked top chord must NOT be notched or cut in area (NNL). Dropped top chord braced at 24" oc intervals. Attach stacked top chord (SC) to dropped top chord in notched area using 3x4 tie-plates 24" oc. Center plate on stacked/dropped chord interface, plate length perpendicular to chord length. Splice top chord in notched area using 3x6.

The overall height of this truss excluding overhang is 5-9-4.



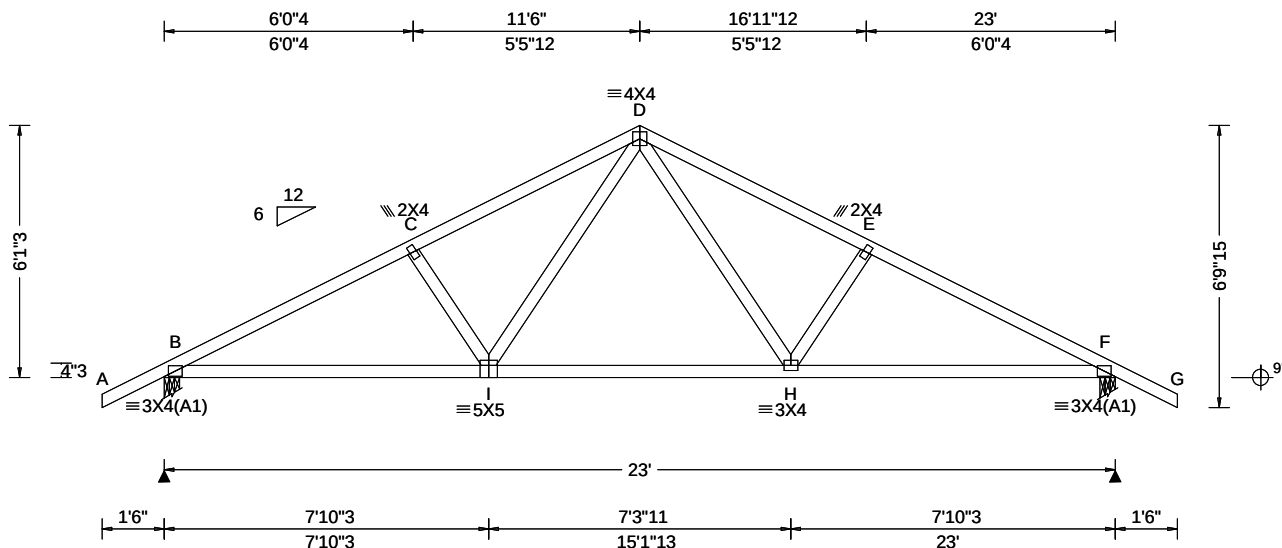
COA #0278

03/03/2025
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 391572 FROM: CDM	COMN Ply: 1 Qty: 1	Job Number: 25-2310 GRAHAM RESIDENCE Truss Label: B02	Cust: R 215 JRef: 1Y7Z2150005 T1 DrwNo: 062.25.1305.33773 AK / DF 03/03/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	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: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.054 H 999 240 VERT(CL): 0.109 H 999 180 HORZ(LL): 0.021 F - - HORZ(TL): 0.043 F - - Creep Factor: 2.0 Max TC CSI: 0.323 Max BC CSI: 0.603 Max Web CSI: 0.191 VIEW Ver: 23.02.04.0123.14	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 1047 /- /- /631 /189 /186 F 1047 /- /- /631 /189 /- Wind reactions based on MWFRS B Brg Wid = 4.5 Min Req = 1.5 (Truss) F Brg Wid = 4.5 Min Req = 1.5 (Truss) Bearings B & F 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 629 -1586 D - E 629 -1404 C - D 629 -1403 E - F 628 -1587

Lumber

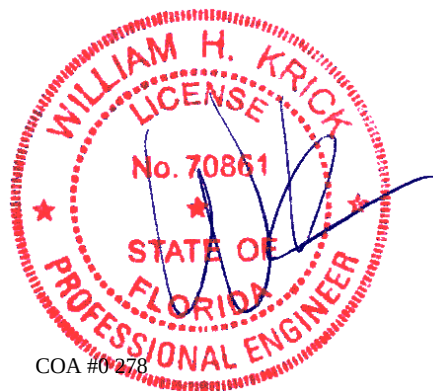
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

Wind

Wind loads based on MWFRS with additional C&C member design.
Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 6-1-3.

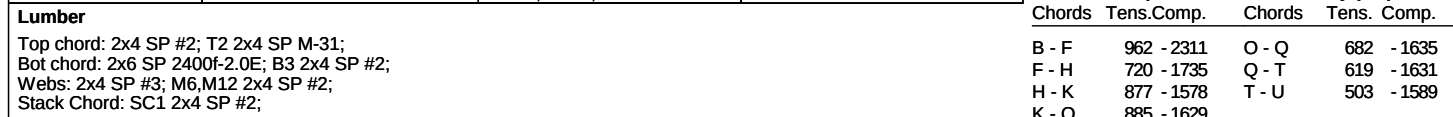


COA #0 278

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

SEQN: 391611	GABL	Ply: 1	Job Number: 25-2310	Cust: R 215 JRef: 1Y7Z2150005 T4
FROM: CDM		Qty: 1	GRAHAM RESIDENCE	DrwNo: 062.25.1305.35763
Page 2 of 2			Truss Label: B03	AK / DF 03/03/2025

Additional Notes

Negative reaction(s) of -178# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

Exposed portion of gable face shall be reinforced with sheathing and the wind pressures shall be transferred into lateral diaphragms. Connections and designs for diaphragms is the responsibility of the Building Designer in accordance with ANSI/TPI 1.

Stacked top chord must NOT be notched or cut in area (NNL). Dropped top chord braced at 24" oc intervals. Attach stacked top chord (SC) to dropped top chord in noticable area using 3x4 tie-plates 24" oc. Center plate on stacked/dropped chord interface, plate length perpendicular to chord length. Splice top chord in noticable area using 3x6.

The overall height of this truss excluding overhang is 8-10-6.



COA #0278

03/03/2025
Florida Certificate of Product Approval #FL 1999

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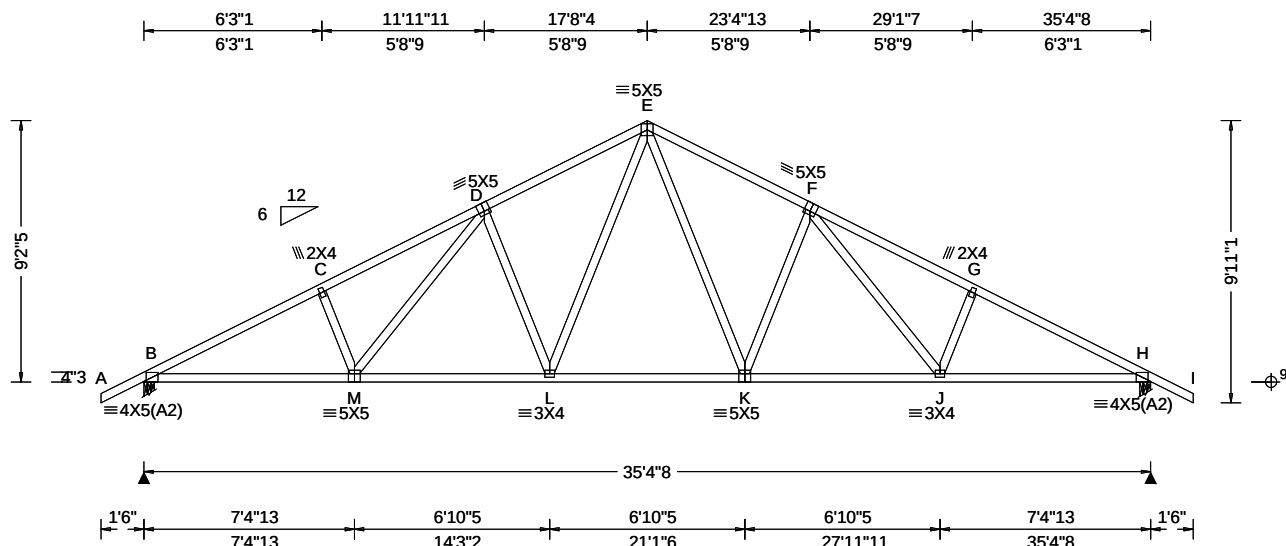
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 391613 FROM: CDM	COMN Ply: 1 Qty: 1	Job Number: 25-2310 GRAHAM RESIDENCE Truss Label: B04	Cust: R 215 JRef: 1Y7Z2150005 T13 DrwNo: 062.25.1305.37150 AK / DF 03/03/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.54 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	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: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.139 L 999 240 VERT(CL): 0.284 L 999 180 HORZ(LL): 0.055 H - - HORZ(TL): 0.112 H - - Creep Factor: 2.0 Max TC CSI: 0.410 Max BC CSI: 0.684 Max Web CSI: 0.565 VIEW Ver: 23.02.04.0123.14	Gravity Loc R+ / R- / Rh / Rw / U / RL B 1560 /- /- /937 /278 /258 H 1454 /- /- /852 /250 /- Wind reactions based on MWFRS B Brg Wid = 4.5 Min Req = 1.8 (Truss) H Brg Wid = 4.5 Min Req = 1.7 (Truss) Bearings B & H 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 1031 -2680 E - F 956 -1974 C - D 1086 -2550 F - G 1110 -2574 D - E 952 -1973 G - H 1054 -2702

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

Wind

Wind loads based on MWFRS with additional C&C member design.
Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 9'-2.5".

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - M	2323 -838	K - J	1902 -601
M - L	1897 -606	J - H	2348 -849
L - K	1435 -349		

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
M - D	523 -224	E - K	717 -322
D - L	390 -562	K - F	395 -571
L - E	714 -318	F - J	549 -243



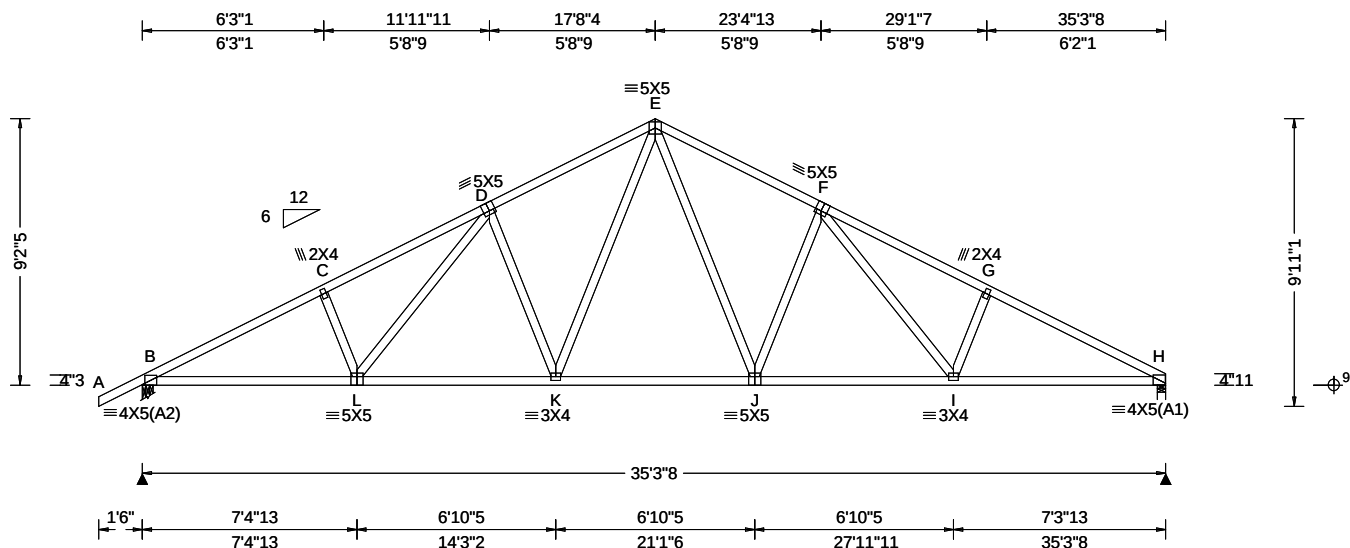
COA #0278

03/03/2025
Florida Certificate of Product Approval #FL 1999

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SEQN: 391615 FROM: CDM	COMN Ply: 1 Qty: 3	Job Number: 25-2310 GRAHAM RESIDENCE Truss Label: B05	Cust: R 215 JRef: 1Y7Z2150005 T27 DrwNo: 062.25.1305.38507 AK / DF 03/03/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.53 ft Loc. from endwall: not in 4.50 ft GCpi: 0.18 Wind Duration: 1.60	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: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.139 K 999 240 VERT(CL): 0.283 K 999 180 HORZ(LL): 0.054 H - - HORZ(TL): 0.111 H - - Creep Factor: 2.0 Max TC CSI: 0.408 Max BC CSI: 0.681 Max Web CSI: 0.455 VIEW Ver: 23.02.04.0123.14	Gravity Loc R+ / R- / Rh / Rw / U / RL B 1556 - / - / - / 936 / 277 / 258 H 1451 - / - / - / 849 / 249 / - Wind reactions based on MWFRS B Brg Wid = 4.5 Min Req = 1.8 (Truss) H Brg Wid = 3.5 Min Req = 1.7 (Truss) Bearings B & H 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 579 -2672 E - F 580 -1964 C - D 625 -2543 F - G 637 -2536 D - E 577 -1965 G - H 591 -2665

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

Wind

Wind loads based on MWFRS with additional C&C member design.
Wind loading based on both gable and hip roof types.

Additional Notes

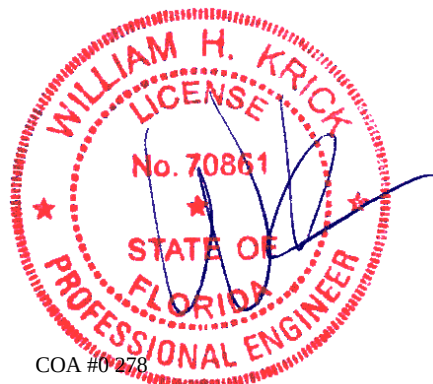
The overall height of this truss excluding overhang is 9'-2.5".

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - L	2317 -466	J - I	1888 -321
L - K	1890 -337	I - H	2310 -458
K - J	1428 -180		

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
L - D	523 -114	E - J	711 -181
D - K	252 -562	J - F	253 -560
K - E	714 -179	F - I	516 -135



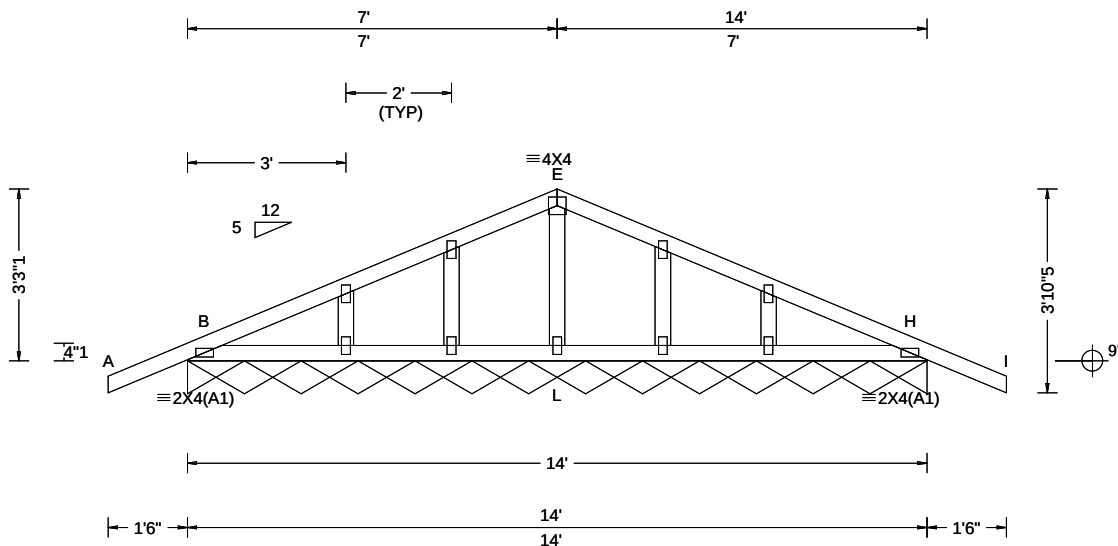
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Glenview, IL 60025

SEQN: 391445 FROM: CDM	GABL Ply: 1 Qty: 1	Job Number: 25-2310 GRAHAM RESIDENCE Truss Label: C01	Cust: R 215 JRef: 1Y7Z2150005 T28 DrwNo: 062.25.1305.39610 AK / DF 03/03/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	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: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 H 999 240 VERT(CL): 0.002 H 999 180 HORZ(LL): -0.000 H - - HORZ(TL): 0.001 H - - Creep Factor: 2.0 Max TC CSI: 0.155 Max BC CSI: 0.049 Max Web CSI: 0.214 VIEW Ver: 23.02.04.0123.14	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL H* 96 /- /- /46 /18 /7 Wind reactions based on MWFRS H Brg Wid = 167 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

Plating Notes

All plates are 2X4 except as noted.

Wind

Wind loads based on MWFRS with additional C&C member design.

Wind loading based on both gable and hip roof types.

Gable meets L/120 deflection criteria for wind load applied to face. Calculated deflection ratio is L/999.

Additional Notes

Exposed portion of gable face shall be reinforced with sheathing and the wind pressures shall be transferred into lateral diaphragms. Connections and designs for diaphragms is the responsibility of the Building Designer in accordance with ANSI/TPI 1.

The overall height of this truss excluding overhang is 3-3-1.



COA #0278

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Glenview, IL 60025

Lumber	C - D	400	- 750	E - F	535	- 979
Top chord: 2x4 SP #2;	Maximum Bot Chord Forces Per Ply (lbs)					
Bot chord: 2x4 SP #2;	Chords	Tens.Comp.		Chords	Tens. Comp.	
Webs: 2x4 SP #3;	B - H	868	- 388	H - E	868	- 392

Wind loading based on both gable and hip roof types.

D - H	385	-112
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Additional Notes

The overall height of this truss excluding overhang is 3-3-1.

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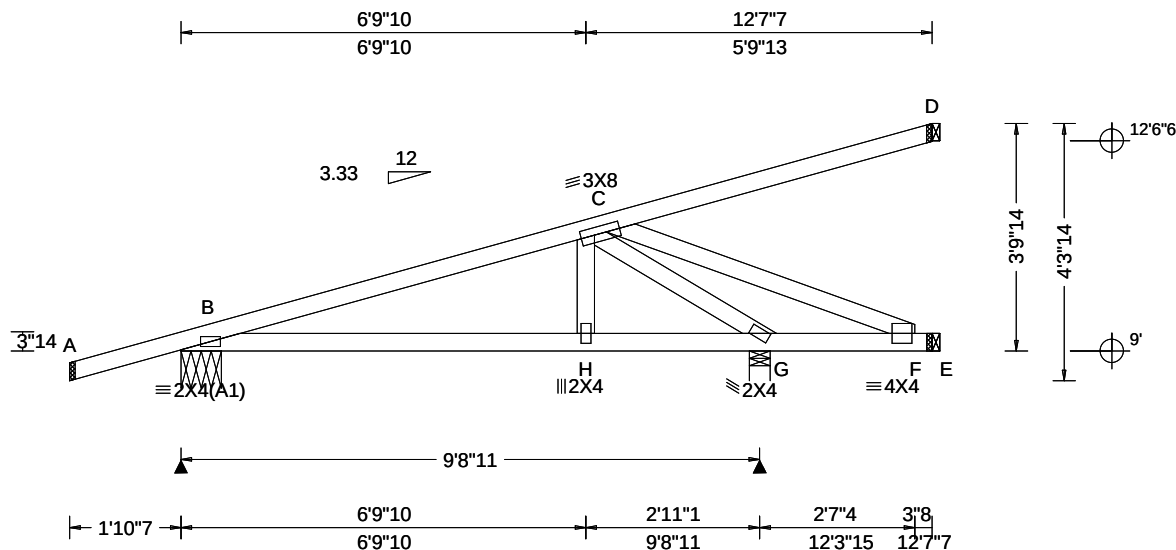
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 391545 FROM: CDM	HIP_ Qty: 1	Ply: 1	Job Number: 25-2310 GRAHAM RESIDENCE Truss Label: HJ01	Cust: R 215 JRef: 1Y7Z2150005 T29 DrwNo: 062.25.1305.41937 AK / DF 03/03/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: NA GCp: 0.18 Wind Duration: 1.60	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): 0.011 H 999 240 VERT(CL): 0.023 H 999 180 HORZ(LL): 0.005 G - - HORZ(TL): 0.009 G - - Creep Factor: 2.0 Max TC CSI: 0.315 Max BC CSI: 0.431 Max Web CSI: 0.305 VIEW Ver: 23.02.04.0123.14	Gravity Loc R+ / R- / Rh Non-Gravity / Rw / U / RL B 405 -/- /- /93 -/ G 969 -/- /- /150 -/ E 169 -/- /- /23 -/ D 109 -/- /- /45 -/ Wind reactions based on MWFRS B Brg Wid = 8.1 Min Req = 1.5 (Truss) G Brg Wid = 4.2 Min Req = 1.5 (Truss) E Brg Wid = 1.5 Min Req = - D Brg Wid = 1.5 Min Req = - Bearings B & G are a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SP M-31;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

Loading

Hipjack supports 8-11-1 setback jacks. Jacks up to 7' have no webs. Longer jacks supported to BC.

Wind

Wind loads and reactions based on MWFRS.
Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 3-9-14.

Maximum Top Chord Forces Per Ply (lbs)

Chords Tens.Comp.

B - C 148 -664

Maximum Bot Chord Forces Per Ply (lbs)

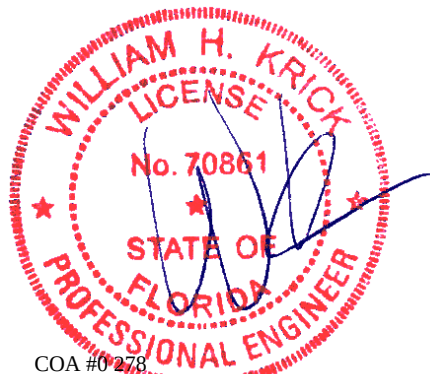
Chords Tens.Comp. Chords Tens. Comp.

B - H 616 -131 H - G 606 -140

Maximum Web Forces Per Ply (lbs)

Webs Tens.Comp.

C - G 225 -1036



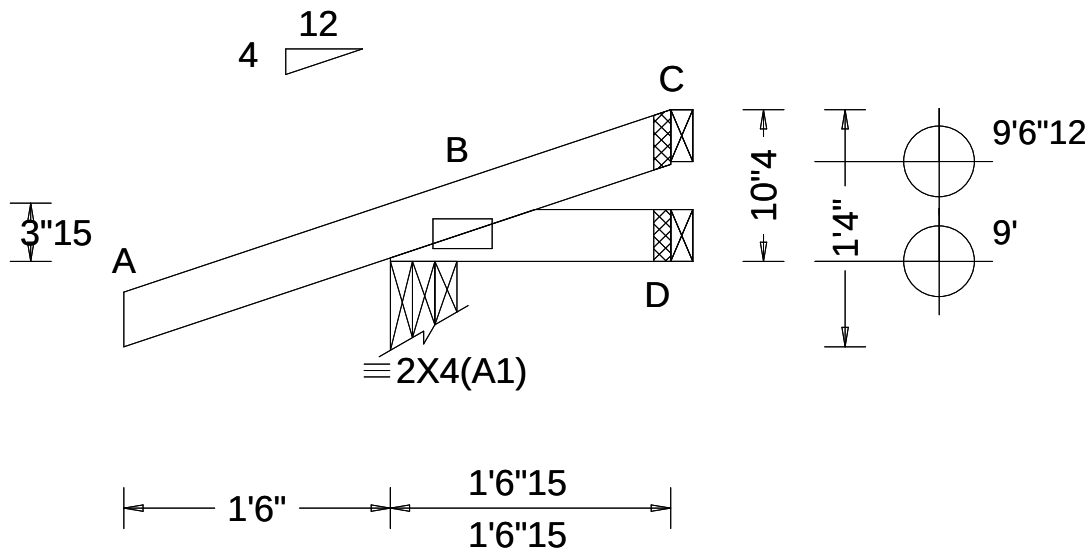
COA #0278

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SEQN: 391512 FROM: CDM	JACK Ply: 1 Qty: 1	Job Number: 25-2310 GRAHAM RESIDENCE Truss Label: J02	Cust: R 215 JRef: 1Y7Z2150005 T18 DrwNo: 062.25.1305.42793 AK / DF 03/03/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	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: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): NA VERT(CL): NA HORZ(LL): -0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.234 Max BC CSI: 0.041 Max Web CSI: 0.000 VIEW Ver: 23.02.04.0123.14	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 230 /- /- /149 /75 /32 D 16 /-4 /- /18 /8 /- C 4 /0 /- /19 /17 /- Wind reactions based on MWFRS B Brg Wid = 4.5 Min Req = 1.5 (Truss) D Brg Wid = 1.5 Min Req = - C Brg Wid = 1.5 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375#

Lumber

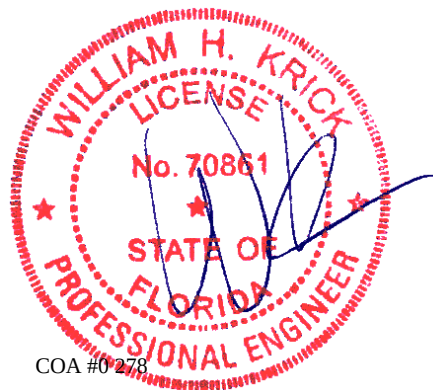
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;

Wind

Wind loads based on MWFRS with additional C&C member design.
Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 0-10-4.



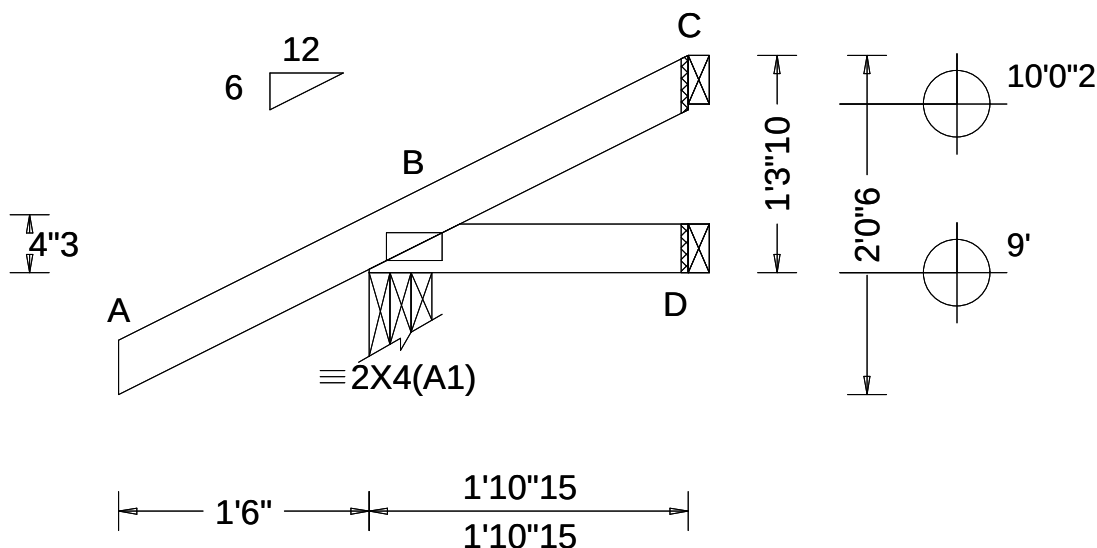
COA #0 278

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SEQN: 391524 FROM: CDM	JACK Ply: 1 Qty: 1	Job Number: 25-2310 GRAHAM RESIDENCE Truss Label: J03	Cust: R 215 JRef: 1Y7Z2150005 T22 DrwNo: 062.25.1305.46093 AK / DF 03/03/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCpi: 0.18 Wind Duration: 1.60	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: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): -0.000 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.205 Max BC CSI: 0.046 Max Web CSI: 0.000 VIEW Ver: 23.02.04.0123.14	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 236 /- /- /179 /45 /54 D 26 /- /- /16 /4 /- C 17 /- /- /21 /15 /- Wind reactions based on MWFRS B Brg Wid = 4.5 Min Req = 1.5 (Truss) D Brg Wid = 1.5 Min Req = - C Brg Wid = 1.5 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375#

Lumber

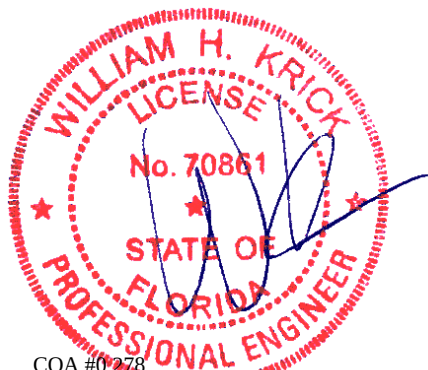
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;

Wind

Wind loads based on MWFRS with additional C&C member design.
Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 1-3-10.



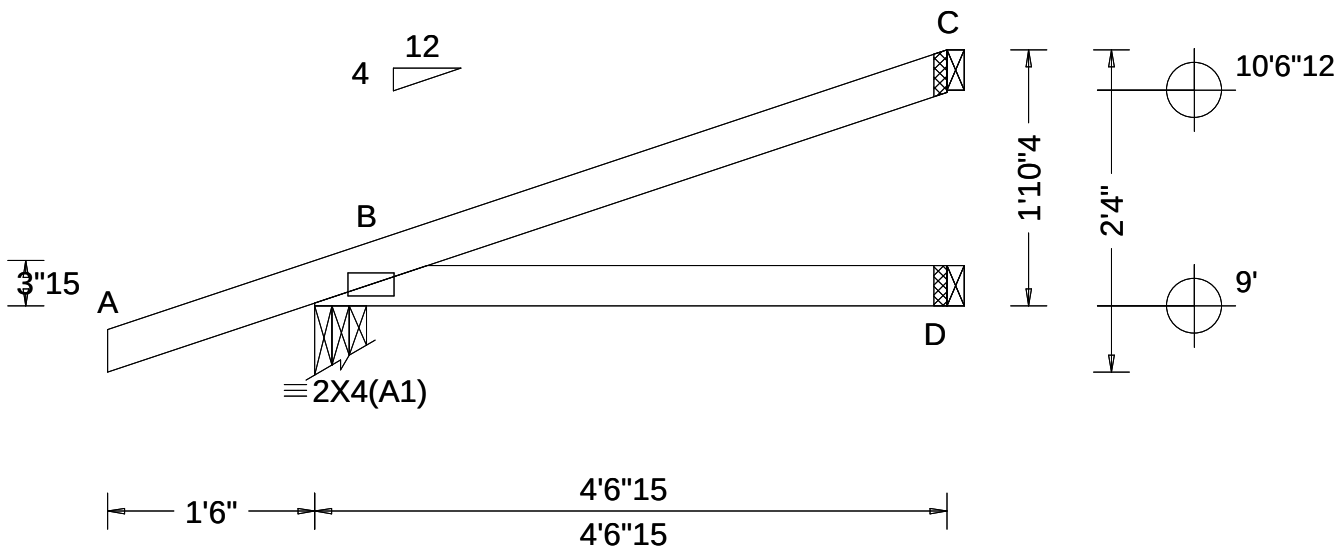
COA #0278

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SEQN: 391521 FROM: CDM	JACK Ply: 1 Qty: 1	Job Number: 25-2310 GRAHAM RESIDENCE Truss Label: J04	Cust: R 215 JRef: 1Y7Z2150005 T17 DrwNo: 062.25.1305.46977 AK / DF 03/03/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCp: 0.18 Wind Duration: 1.60	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: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): 0.003 B - - HORZ(TL): 0.006 B - - Creep Factor: 2.0 Max TC CSI: 0.230 Max BC CSI: 0.177 Max Web CSI: 0.000 VIEW Ver: 23.02.04.0123.14	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 309 /- /- /188 /57 /68 D 79 /- /- /43 /- /- C 111 /- /- /49 /48 /- Wind reactions based on MWFRS B Brg Wid = 4.5 Min Req = 1.5 (Truss) D Brg Wid = 1.5 Min Req = - C Brg Wid = 1.5 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;

Wind

Wind loads based on MWFRS with additional C&C member design.
Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 1-10-4.



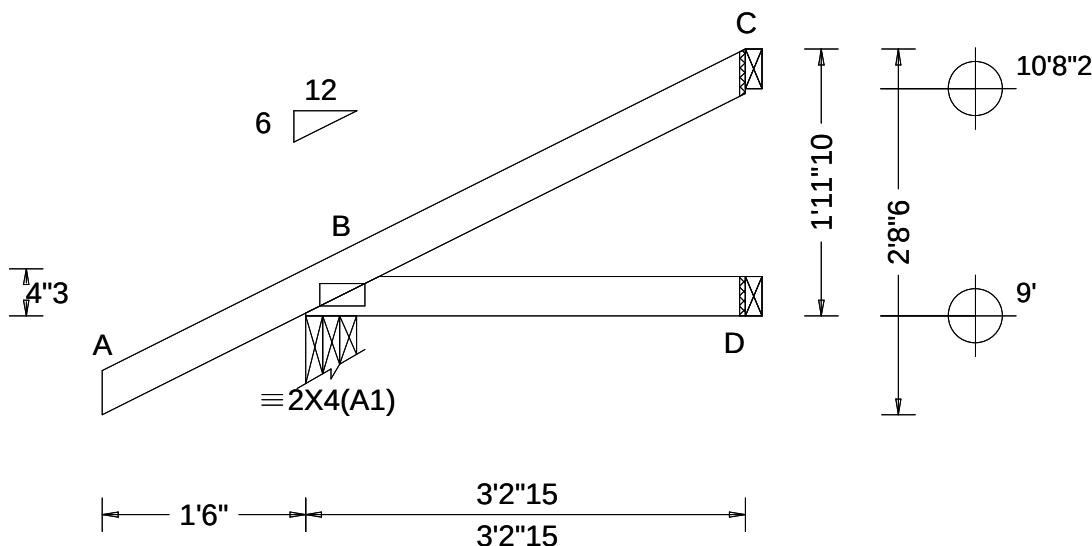
COA #0278

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SEQN: 391511 FROM: CDM	JACK Ply: 1 Qty: 1	Job Number: 25-2310 GRAHAM RESIDENCE Truss Label: J05	Cust: R 215 JRef: 1Y7Z2150005 T21 DrwNo: 062.25.1305.47840 AK / DF 03/03/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCp: 0.18 Wind Duration: 1.60	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: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): 0.000 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.206 Max BC CSI: 0.078 Max Web CSI: 0.000 VIEW Ver: 23.02.04.0123.14	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 269 /- /- /194 /42 /78 D 54 /- /- /29 /- /- C 71 /- /- /42 /38 /- Wind reactions based on MWFRS B Brg Wid = 4.5 Min Req = 1.5 (Truss) D Brg Wid = 1.5 Min Req = - C Brg Wid = 1.5 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375#

Lumber

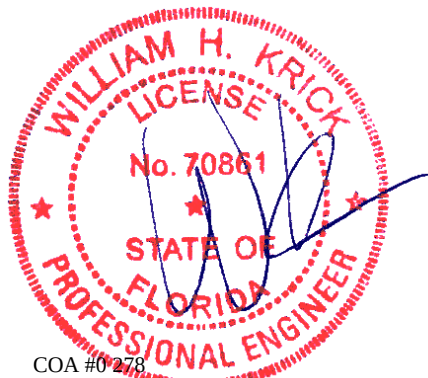
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;

Wind

Wind loads based on MWFRS with additional C&C member design.
Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 1-11-10.



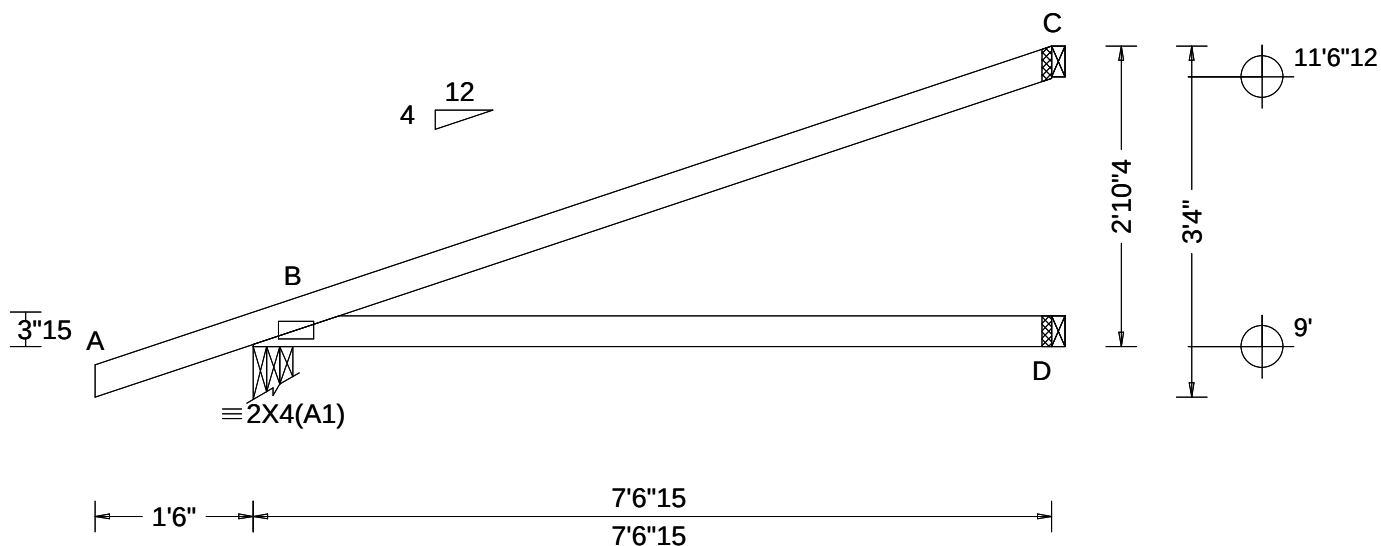
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Glenview, IL 60025

SEQN: 391528 FROM: CDM	JACK Ply: 1 Qty: 1	Job Number: 25-2310 GRAHAM RESIDENCE Truss Label: J06	Cust: R 215 JRef: 1Y7Z2150005 T16 DrwNo: 062.25.1305.48720 AK / DF 03/03/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCp: 0.18 Wind Duration: 1.60	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: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): 0.019 B - - HORZ(TL): 0.038 B - - Creep Factor: 2.0 Max TC CSI: 0.819 Max BC CSI: 0.585 Max Web CSI: 0.000 VIEW Ver: 23.02.04.0123.14	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 423 /- /- /251 /71 /103 D 137 /- /- /75 /- /- C 199 /- /- /91 /86 /- Wind reactions based on MWFRS B Brg Wid = 4.5 Min Req = 1.5 (Truss) D Brg Wid = 1.5 Min Req = - C Brg Wid = 1.5 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375#

Lumber

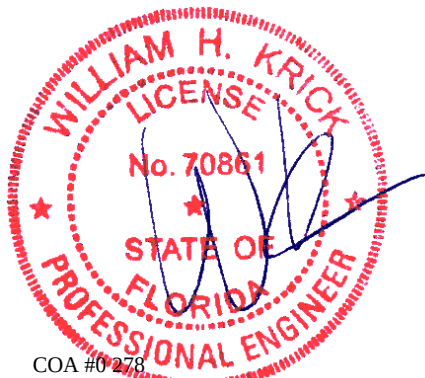
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;

Wind

Wind loads based on MWFRS with additional C&C member design.
Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 2-10-4.



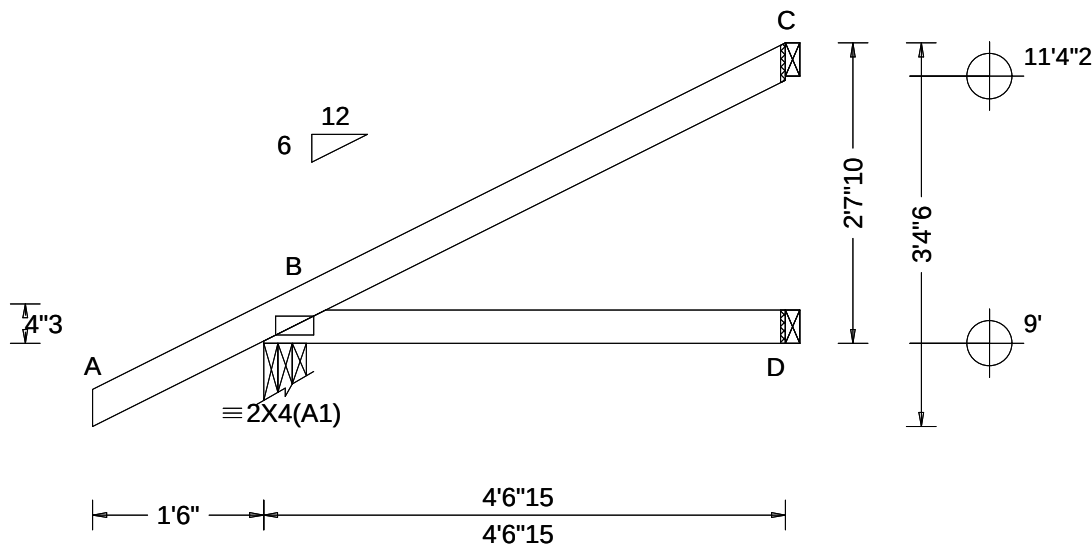
COA #0 278

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Glenview, IL 60025

SEQN: 391518 FROM: CDM	JACK Ply: 1 Qty: 1	Job Number: 25-2310 GRAHAM RESIDENCE Truss Label: J07	Cust: R 215 JRef: 1Y7Z2150005 T20 DrwNo: 062.25.1305.49620 AK / DF 03/03/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCpi: 0.18 Wind Duration: 1.60	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: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): 0.003 B - - HORZ(TL): 0.006 B - - Creep Factor: 2.0 Max TC CSI: 0.261 Max BC CSI: 0.188 Max Web CSI: 0.000 VIEW Ver: 23.02.04.0123.14	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 315 /- /- /221 /43 /102 D 81 /- /- /44 /- /- C 114 /- /- /71 /59 /- Wind reactions based on MWFRS B Brg Wid = 4.5 Min Req = 1.5 (Truss) D Brg Wid = 1.5 Min Req = - C Brg Wid = 1.5 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375#

Lumber

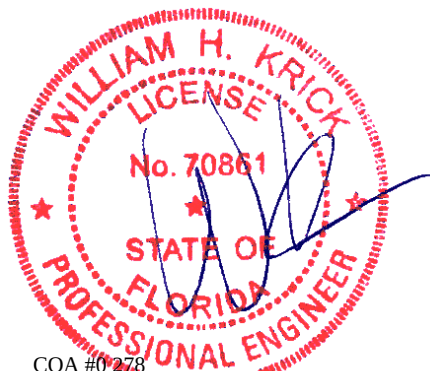
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;

Wind

Wind loads based on MWFRS with additional C&C member design.
Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 2-7-10.



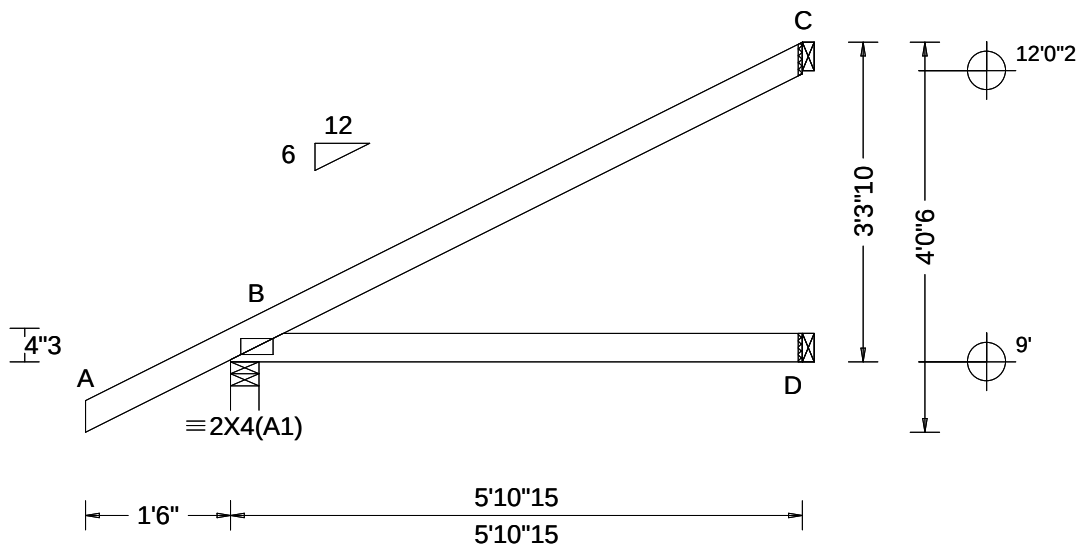
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SEQN: 391525 FROM: CDM	JACK Ply: 1 Qty: 1	Job Number: 25-2310 GRAHAM RESIDENCE Truss Label: J08	Cust: R 215 JRef: 1Y7Z2150005 T19 DrwNo: 062.25.1305.50537 AK / DF 03/03/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCp: 0.18 Wind Duration: 1.60	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: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): 0.008 B - - HORZ(TL): 0.015 B - - Creep Factor: 2.0 Max TC CSI: 0.473 Max BC CSI: 0.347 Max Web CSI: 0.000 VIEW Ver: 23.02.04.0123.14	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 365 /- /- /252 /45 /125 D 107 /- /- /59 /- /- C 155 /- /- /97 /78 /- Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 (Truss) D Brg Wid = 1.5 Min Req = - C Brg Wid = 1.5 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375#

Lumber

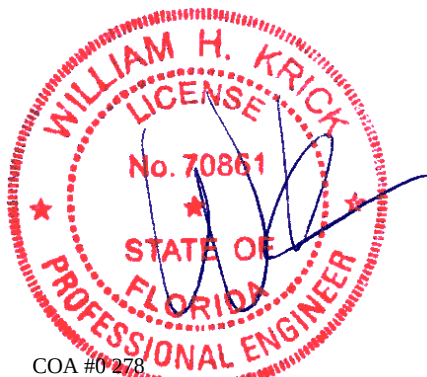
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;

Wind

Wind loads based on MWFRS with additional C&C member design.
Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 3-3-10.



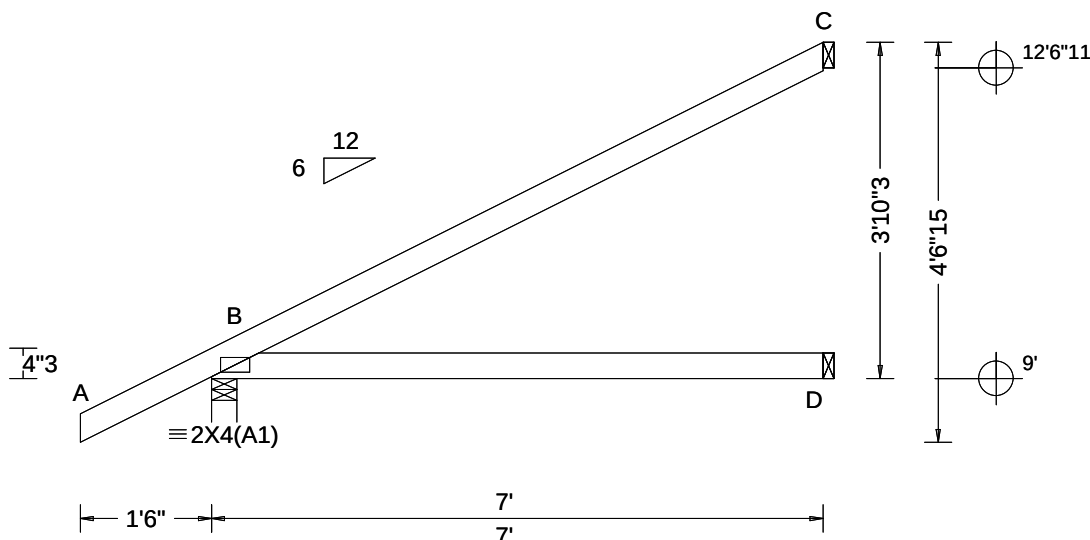
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Glenview, IL 60025

SEQN: 391508 FROM: CDM	EJAC Ply: 1 Qty: 20	Job Number: 25-2310 GRAHAM RESIDENCE Truss Label: J09	Cust: R 215 JRef: 1Y7Z2150005 T24 DrwNo: 062.25.1305.51660 AK / DF 03/03/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCp: 0.18 Wind Duration: 1.60	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: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): 0.014 B - - HORZ(TL): 0.028 B - - Creep Factor: 2.0 Max TC CSI: 0.713 Max BC CSI: 0.512 Max Web CSI: 0.000 VIEW Ver: 23.02.04.0123.14	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 408 /- /- /279 /47 /145 D 129 /- /- /73 /- /- C 187 /- /- /118 /94 /- Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 (Truss) D Brg Wid = 1.5 Min Req = - C Brg Wid = 1.5 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375#

Lumber

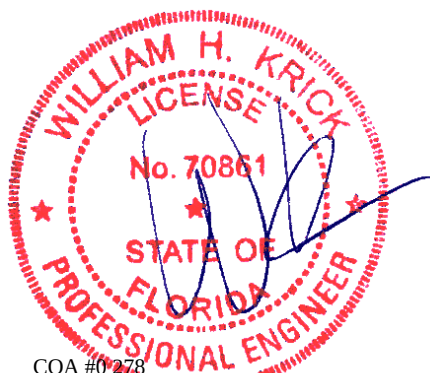
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;

Wind

Wind loads based on MWFRS with additional C&C member design.
Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 3-10-3.



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CLR Reinforcing Member Substitution

This detail is to be used when a Continuous Lateral Restraint (CLR) is specified on a truss design but an alternative web reinforcement method is desired.

Notes:

This detail is only applicable for changing the specified CLR shown on single ply sealed designs to T-reinforcement or L-reinforcement or scab reinforcement.

Alternative reinforcement specified in chart below may be conservative. For minimum alternative reinforcement, re-run design with appropriate reinforcement type.

Use scabs instead of L- or T- reinforcement on webs with intersecting truss joints, such as K-web joints, that may interfere with proper application along the narrow face of the web.

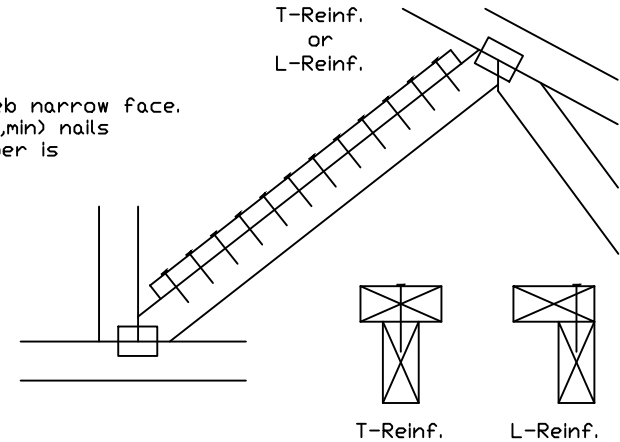
Web Member Size	Specified CLR Restraint	Alternative Reinforcement T- or L- Reinf.	Scab Reinf.
2x3 or 2x4	1 row	2x4	1-2x4
2x3 or 2x4	2 rows	2x6	2-2x4
2x6	1 row	2x4	1-2x6
2x6	2 rows	2x6	2-2x6(✕)
2x8	1 row	2x6	1-2x8
2x8	2 rows	2x6	2-2x6(✕)

T-reinforcement, L-reinforcement, or scab reinforcement to be same species and grade or better than web member unless specified otherwise on Engineer's sealed design.

(✕) Center scab on wide face of web. Apply (1) scab to each face of web.

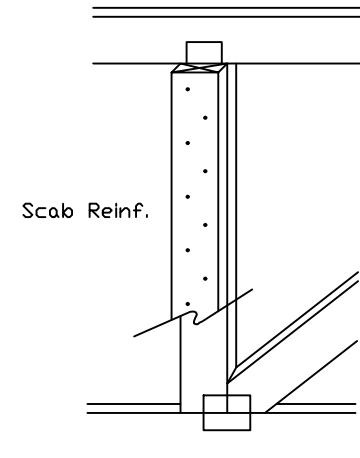
T-Reinforcement or L-Reinforcement:

Apply to either side of web narrow face. Attach with 10d (0.128"x3.0",min) nails at 6" o.c. Reinforcing member is a minimum 80% of web member length.



Scab Reinforcement:

Apply scab(s) to wide face of web. No more than (1) scab per face. Attach with 10d (0.128"x3.0",min) nails at 6" o.c. Reinforcing member is a minimum 80% of web member length.



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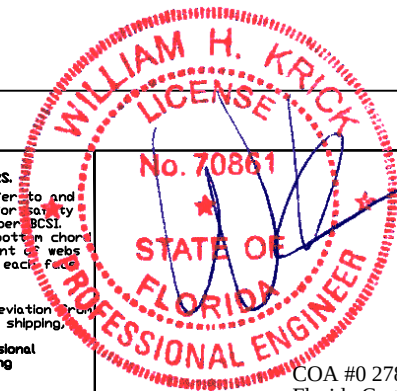
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TC LL	PSF	REF	CLR Subst.
TC DL	PSF	DATE	01/02/19
BC DL	PSF	DRWG	BRCLBSUB0119
BC LL	PSF		
TOT. LD.	PSF		
DUR: 3/30/25			
SPACING			
COA #0 278			
Florida Certificate of Product Approval #FL 1999			

NAIL SPACING DETAIL

MINIMUM SPACING FOR SINGLE BLOCK IS SHOWN. DOUBLE NAIL SPACINGS AND STAGGER NAILING FOR TWO BLOCKS. GREATER SPACING MAY BE REQUIRED TO AVOID SPLITTING.

BLOCK LOCATION, SIZE, LENGTH, GRADE AND TOTAL NUMBER AND TYPE OF NAILS ARE TO BE SPECIFIED ON SEALED DESIGN REFERENCING THIS DETAIL.

LOAD PERPENDICULAR TO GRAIN

A - EDGE DISTANCE AND SPACING BETWEEN STAGGERED ROWS OF NAILS (6 NAIL DIAMETERS)

B - SPACING OF NAILS IN A ROW (12 NAIL DIAMETERS)

C - END DISTANCE (15 NAIL DIAMETERS)

LOAD PARALLEL TO GRAIN

A - EDGE DISTANCE (6 NAIL DIAMETERS)

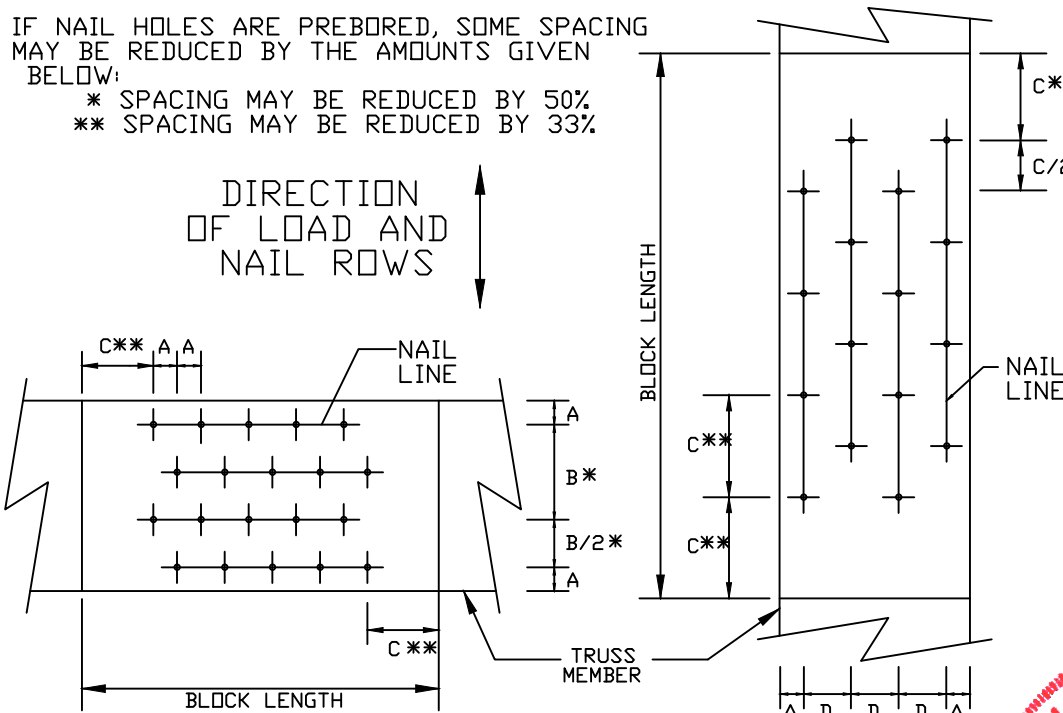
C - SPACING OF NAILS IN A ROW AND END DISTANCE (15 NAIL DIAMETERS)

D - SPACING BETWEEN STAGGERED ROWS OF NAILS (7 1/2 NAIL DIAMETERS)

IF NAIL HOLES ARE PREBORED, SOME SPACING MAY BE REDUCED BY THE AMOUNTS GIVEN BELOW:

* SPACING MAY BE REDUCED BY 50%

** SPACING MAY BE REDUCED BY 33%



MINIMUM NAIL SPACING DISTANCES

NAIL TYPE	DISTANCES			
	A	B*	C**	D
8d BOX (0.113"X 2.5",MIN)	3/4"	1 3/8"	1 3/4"	7/8"
10d BOX (0.128"X 3",MIN)	7/8"	1 5/8"	2"	1"
12d BOX (0.128"X 3.25",MIN)	7/8"	1 5/8"	2"	1"
16d BOX (0.135"X 3.5",MIN)	7/8"	1 5/8"	2 1/8"	1 1/8"
20d BOX (0.148"X 4",MIN)	1"	1 7/8"	2 1/4"	1 1/8"
8d COMMON (0.131"X 2.5",MIN)	7/8"	1 5/8"	2"	1"
10d COMMON (0.148"X 3",MIN)	1"	1 7/8"	2 1/4"	1 1/8"
12d COMMON (0.148"X 3.25",MIN)	1"	1 7/8"	2 1/4"	1 1/8"
16d COMMON (0.162"X 3.5",MIN)	1"	2"	2 1/2"	1 1/4"
GUN (0.120"X 2.5",MIN)	3/4"	1 1/2"	1 7/8"	1"
GUN (0.131"X 2.5",MIN)	7/8"	1 5/8"	2"	1"
GUN (0.120"X 3",MIN)	3/4"	1 1/2"	1 7/8"	1"
GUN (0.131"X 3",MIN)	7/8"	1 5/8"	2"	1"

LOAD APPLIED PERPENDICULAR TO GRAIN

LOAD APPLIED PARALLEL TO GRAIN



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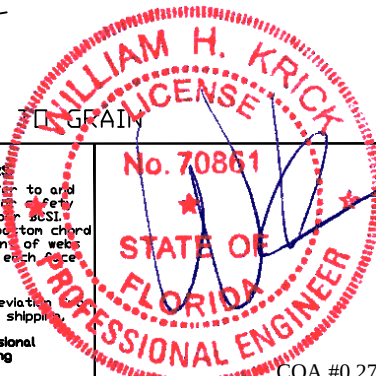
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03/03/2025

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REF NAIL SPACE
DATE 10/01/14
DRWG CNNAILSP1014