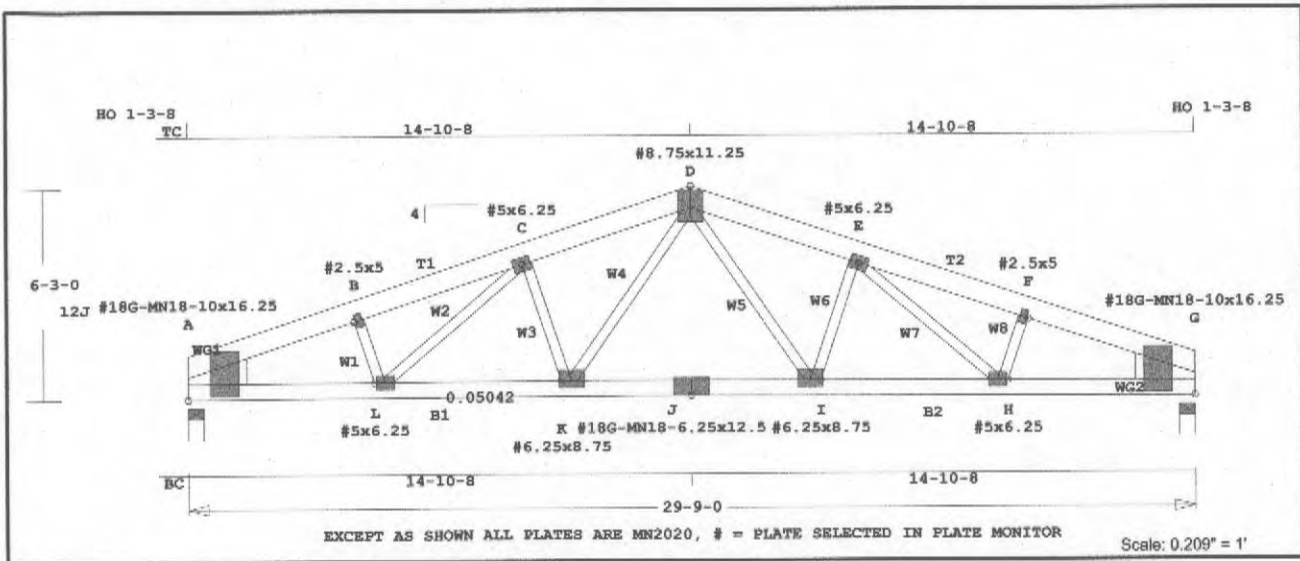


Job	Mark	Quan	Type	Span	P1-H1	Left	OH	Right	OH	Engineering
2090 30 SC MN PLATE 6-1-2013	0223001(2)	1	ZRC66	290900	4	0	0	0	0	



Online Plus -- Version 30.0.069
 RUN DATE: 06-DEC-19

Southern Pine lumber design values are those effective 06-01-13 by SPIB//ALSC UON
 CSI -Size- Lumber-----
 TC 0.79 2x 8 SP-#1
 BC 0.66 2x 6 SP-2400f-2.0E
 WB 0.29 2x 4 SP-#1
 WG --- 2x10 SP-#1

Brace truss as follows:
 O.C. From To
 TC 24.0" 0- 0- 0 29- 9- 0
 BC 90.0" 0- 0- 0 29- 9- 0

psf-Ld Dead Live
 TC 4.0 30.0
 BC 0.0 0.0
 TC+BC 4.0 30.0
 Total 34.0 Spacing 84.0"
 Lumber Duration Factor 1.15
 Plate Duration Factor 1.15
 Fb Fc Ft Emin
 TC 1.00 1.00 1.00 1.00
 BC 1.00 1.00 1.00 1.00

Total Load Reactions (Lbs)
 Jt Down Uplift Horiz-
 A 3540
 G 3540

Jt Brg Size Required
 A 5.5" 2.9"
 G 5.5" 2.9"

LC# 2 Dead Load Check
 Dur Fctrs - Lbr 0.90 Plt 0.90
 plf - Dead Live* From To
 TC V 28 0 0.0' 29.8'
 BC V 0 0 0.0' 29.8'

Membr CSI P Lbs Axl-CSI-Bnd
 -----Top Chords-----
 A -B 0.79 6098 C 0.10 0.69
 B -C 0.69 5791 C 0.19 0.50

MiTek® Online Plus™ APPROX. TRUSS WEIGHT: 286.1 LBS

C -D	0.33	5756	C	0.08	0.25
D -E	0.33	5756	C	0.08	0.25
E -F	0.69	5791	C	0.19	0.50
F -G	0.79	6098	C	0.10	0.69
-----Bottom Chords-----					
A -L	0.66	5607	T	0.30	0.36
L -K	0.53	5789	T	0.31	0.22
K -J	0.27	4663	T	0.25	0.02
J -I	0.27	4663	T	0.25	0.02
I -H	0.57	5789	T	0.31	0.26
H -G	0.62	5607	T	0.30	0.32
-----Webs-----					
B -L	0.02	203	C		
L -C	0.15	322	C		
C -K	0.29	1164	C		
K -D	0.24	1476	T		
D -I	0.24	1476	T		
I -E	0.29	1164	C		
E -H	0.15	322	C		
H -F	0.02	203	C		

ADDITIONAL SPECIFICATIONS.

NOTES:
 Trusses Manufactured by:
 Morton Buildings, Inc.
 Analysis Conforms To:
 TPI 2007

NOTE: USER MODIFIED PLATES
 This design may have plates selected through a plate monitor.

Max comp. force 6098 Lbs
 Max tens. force 5789 Lbs
 Connector Plate Fabrication Tolerance = 10%
 This truss is designed for a creep factor of 1.5 which is used to calculate total load deflection.

TL Defl -0.37" in L -K L/936
 LL Defl -0.31" in L -K L/999
 Shear // Grain in A -B 0.63

Plates for each ply each face.
 Plate - MN18 18 Ga, Gross Area
 Plate - MN20 20 Ga, Gross Area
 Jt Type Plt Size X Y JSI
 A# MN18 10.0x16.2 Ctr Ctr 0.74
 B# MN20 2.5x 5.0 Ctr Ctr 0.39
 C# MN20 5.0x 6.2 Ctr Ctr 0.43
 D# MN20 8.8x11.2 Ctr Ctr 0.60
 E# MN20 5.0x 6.2 Ctr Ctr 0.43
 F# MN20 2.5x 5.0 Ctr Ctr 0.39
 G# MN18 10.0x16.2 Ctr Ctr 0.74
 L# MN20 5.0x 6.2 Ctr Ctr 0.36
 K# MN20 6.2x 8.8 Ctr Ctr 0.58
 J# MN18 6.2x12.5 Ctr Ctr 0.64
 I# MN20 6.2x 8.8 Ctr Ctr 0.58
 H# MN20 5.0x 6.2 Ctr Ctr 0.36

= Plate Monitor used
 Placement Tolerance Used 0.12 in.

REFER TO ONLINE PLUS GENERAL NOTES AND SYMBOLS SHEET FOR

ALLIED DESIGN ARCHITECTURAL AND ENGINEERING GROUP, P.C. [ALLIED] CERTIFIES TRUSS DESIGN, ONLY, AND DOES NOT CERTIFY DESIGN OR OTHER ENGINEERING OF THE BUILDING IN WHICH THE TRUSS WILL BE INCORPORATED. ALLIED EXPRESSLY RELIES THAT THE BUILDING DESIGN AND/OR OTHER ENGINEERING WILL BE PROVIDED BY OTHERS AND ALLIED ASSUMES NO LIABILITY FOR PLANS OR DESIGNS OF OTHERS WHICH INCORPORATE THIS TRUSS DESIGN. IT IS THE RESPONSIBILITY OF THE BUILDING DESIGNER TO REVIEW THIS TRUSS DESIGN AND VERIFY THAT DIMENSIONS AND LOADS CONFORM TO APPLICABLE STANDARDS FOR DESIGN AND ENGINEERING FOR THE USE IN A BUILDING.

- GENERAL SAFETY, DESIGN, AND FABRICATION NOTES:
1. PROVIDE COPIES OF THIS TRUSS DESIGN TO THE BUILDING DESIGNER, ERECTION SUPERVISOR, PROPERTY OWNER AND ALL OTHER INTERESTED PARTIES.
 2. CUT MEMBERS TO BEAR TIGHTLY AGAINST EACH OTHER.
 3. PLACE PLATES ON EACH FACE OF TRUSS AT EACH JOINT AND EMBED FULLY. AVOID KNOTS AND WANE AT JOINT LOCATIONS.
 4. MOISTURE CONTENT OF LUMBER SHALL NOT EXCEED 19% AT THE TIME OF FABRICATION.
 5. THIS DESIGN IS NOT APPLICABLE FOR USE WITH FIRE RETARDING OR PRESERVATIVE TREATED LUMBER.
 6. CAMBER IS A NON-STRUCTURAL CONSIDERATION AND IS THE RESPONSIBILITY OF THE TRUSS FABRICATOR. GENERAL PRACTICE IS TO CAMBER FOR DEAD LOAD DEFLECTION.
 7. PLATE TYPE AND SIZE SHOWN ARE MINIMUM REQUIREMENTS.
 8. LUMBER SHALL BE THE SIZE AND SPECIES SHOWN. THE GRADES SHOWN ARE MINIMUM REQUIREMENTS.
 9. TOP CHORDS MUST BE LATERALLY BRACED NOT TO EXCEED 24" O.C.
 10. BOTTOM CHORDS MUST BE LATERALLY BRACED NOT TO EXCEED 7'-6" O.C.
 11. ANCHORAGE AND/OR LOAD TRANSFERRING CONNECTIONS TO TRUSSES ARE THE RESPONSIBILITY OF THE BUILDING DESIGNER.
 12. DO NOT OVERLOAD TRUSSES WITH STACKS OF CONSTRUCTION MATERIAL.
 13. DO NOT CUT OR ALTER TRUSS MEMBERS OR PLATES WITHOUT WRITTEN APPROVAL OF THE TRUSS DESIGNER.
 14. CARE SHOULD BE EXERCISED WHEN HANDLING, ERECTING, AND INSTALLING THESE TRUSSES TO AVOID DAMAGE.

GROUND SNOW LOAD: 15 PSF
 WIND SPEED (VULT) (EXP. B): 115 MPH

*ROOF SNOW LOAD CALCULATIONS

Pf = 0.7 x Ce x I x Pg x Ct
 Ce = SNOW EXPOSURE FACTOR = 1.0
 I = IMPORTANCE FACTOR = 1.0
 Pg = GROUND SNOW LOAD = 15 PSF
 Ct = THERMAL FACTOR = 1.2
 Pf = 0.7 x 1.0 x 1.0 x 15 x 1.2 = 12.60 PSF
 Cs = ROOF SLOPE FACTOR = 0.94
 Ps = Pf x Cs = 12.60 x 0.94 = 11.84 PSF

LIVE LOAD	20	PSF
DEAD LOAD	4	PSF
CEILING LOAD	0	PSF
TOTAL LOAD	24	PSF

REQUIRED TRUSS LOAD = 24 PSF AT 7'-0" O.C. = 168 PLF
 TRUSS DESIGN LOAD (SEE DESIGN OUTPUT) = 238 PLF

I HEREBY CERTIFY THAT THE STRUCTURAL DESIGN FOR THIS TRUSS WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED REGISTERED PROFESSIONAL ENGINEER.



OFFICE:
 WILSON, NC
 JOB NO.
 137-093754

JUDY TURLINGTON
 COATS, NC

ALLIED DESIGN ARCHITECTURAL & ENGINEERING GROUP, P.C.
 100 S. PERSHING P.O. BOX 110 MORTON, IL 61550 COA # C-1615 (ENGR) COA # S0906 (AR) PHONE NUMBER: 309-243-4106

DRAWN BY:	SJW
DATE:	12/9/2019
CHECKED BY:	
DATE:	
REVISED DATE:	---
REVISED DATE:	---

SCALE: AS NOTED
 SHEET NO.
 S1 OF S1