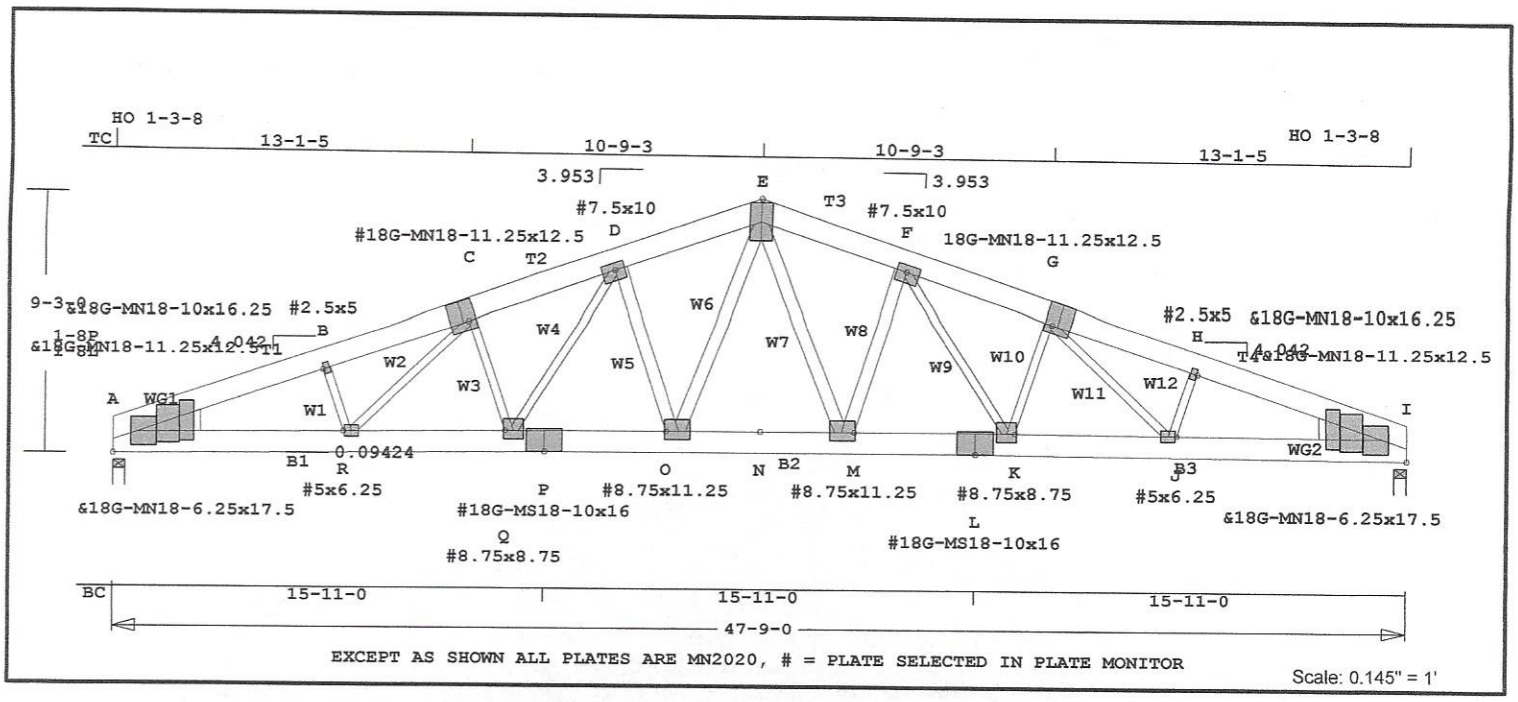
Job	Mark	Quan Type	Span	P1-H1	Left OH	Right OH	Engineering
3090-48' SC 4116	4408050004709(DBL)(2)	1*2P Z2N	470900	4.042	0	0	



EXCEPT AS SHOWN ALL PLATES ARE MN2020, # = PLATE SELECTED IN PLATE MONITOR

Scale: 0.145" = 1'

MiTek® Online Plus™ APPROX. TRUSS WEIGHT: 643.1 LBS

Online Plus -- Version 30.0.069
RUN DATE: 18-JUL-19
****
* 2-Ply Truss *
****

Southern Pine lumber design values are those effective 06-01-13 by SPIB//ALSC UON

	CSI	-Size-	----Lumber----
TC	0.77	2x10	SP-2400f-2.0E
BC	0.93	2x10	SP-2400f-2.0E
WB	0.52	2x 4	SP-#1
--	0.38	2x 6	SP-2400f-2.0E
	D -O	M -F	
--	0.48	2x 6	SP-#1
	O -E	E -M	
WG	---	2x10	SP-#1

Brace truss as follows:

	O.C.	From	To
TC	24.0"	0- 0- 0	47- 9- 0
BC	90.0"	0- 0- 0	47- 9- 0

psf-Ld	Dead	Live
TC	6.0	90.0
BC	3.0	0.0
TC+BC	9.0	90.0
Total	99.0	Spacing 84.0"

Lumber Duration Factor 1.00
Plate Duration Factor 1.00

	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	16546		
I	16545		

Jt	Brg Size
A	5.5"
I	5.5"

LC# 2 Dead Load Check
Dur Fctrs - Lbr 0.90 Plt 0.90

plf -	Dead	Live*	From	To
TC V	42	0	0.0'	47.8'
BC V	21	0	0.0'	47.8'

Membr	CSI	P Lbs	Axl-CSI-Bnd
----------Top Chords----------			
A -B	0.68	35012 C	0.46 0.22
B -C	0.77	34000 C	0.43 0.34
C -D	0.55	32625 C	0.40 0.15
D -E	0.46	27454 C	0.24 0.22
E -F	0.46	27453 C	0.24 0.22
F -G	0.55	32606 C	0.40 0.15
G -H	0.77	33999 C	0.43 0.34
H -I	0.68	35011 C	0.46 0.22
--------Bottom Chords---------			
A -R	0.93	32857 T	0.61 0.32
R -Q	0.92	32105 T	0.60 0.32
Q -P	0.58	28105 T	0.52 0.06
P -O	0.58	28105 T	0.52 0.06
O -M	0.44	23706 T	0.44 0.00
M -L	0.58	28104 T	0.52 0.06
L -K	0.58	28104 T	0.52 0.06
K -J	0.93	32084 T	0.60 0.33
J -I	0.93	32855 T	0.61 0.32
----------Webs----------			
B -R	0.10	1619 C	
R -C	0.04	453 T	
C -Q	0.36	4120 C	
Q -D	0.52	5487 T	
D -O	0.38	6584 C	
O -E	0.48	7012 T	
E -M	0.48	7010 T	
M -F	0.38	6584 C	
F -K	0.52	5463 T	
K -G	0.36	4096 C	
G -J	0.04	473 T	
J -H	0.10	1635 C	

TL Defl	-0.96" in O -M	L/585	
LL Defl	-0.83" in O -M	L/673	
Hz Disp	LL	DL	TL
Jt A	0.28"	0.04"	0.32"
Shear // Grain	in A -B	0.70	

Plates for each ply each face.
Plate - MN20 Ga, Gross Area
Plate - MN18 Ga, Gross Area
Plate - MS18 Ga, Gross Area

Jt	Type	Plt Size	X	Y
B	MN20	2.5x 5.0	Ctr	Ctr
C	MN18	11.2x12.5	Ctr	Ctr
D#	MN20	7.5x10.0	Ctr	Ctr
E#	MN18	10.0x16.2	Ctr	Ctr
F#	MN20	7.5x10.0	Ctr	Ctr
G	MN18	11.2x12.5	Ctr	Ctr
H#	MN20	2.5x 5.0	Ctr	Ctr
R#	MN20	5.0x 6.2	Ctr	Ctr
Q#	MN20	8.8x 8.8	Ctr	Ctr
P	MS18	10.0x16.0	Ctr	Ctr
O	MN20	8.8x11.2	Ctr	Ctr
M#	MN20	8.8x11.2	Ctr	Ctr
L#	MS18	10.0x16.0	Ctr	Ctr
K#	MN20	8.8x 8.8	Ctr	Ctr
J#	MN20	5.0x 6.2	Ctr	Ctr

= Plate Monitor used
Placement Tolerance Used 0.12 in.

REFER TO ONLINE PLUS GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

NOTES:
Trusses Manufactured by:
Morton Buildings, Inc.
Analysis Conforms To:
TPI 2007
2 COMPLETE TRUSSES REQUIRED.

NOTE: USER MODIFIED PLATES
This design may have plates selected through a plate monitor.
Max comp. force 35012 Lbs
Max tens. force 32857 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.

COLORADO LICENSED
ADAM CRUTCHLEY
49084
7/23/19
PROFESSIONAL ENGINEER