



73
Lumber design values are in accordance with ANSI/TPI 1-2007 section 6.3
These truss designs rely on lumber values established by others.

RE: HAYGOOD-BELL -

MiTek USA, Inc.

6904 Parke East Blvd.
Tampa, FL 33610-4115

Site Information:

Customer Info: BELL Project Name: BELL GARAGE Model:
Lot/Block: Subdivision: .
Address: .
City: LAKE CITY State: FLORIDA

Name Address and License # of Structural Engineer of Record, If there is one, for the building.

Name: License #:
Address:
City: State:

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

Design Code: FBC2010 Design Program: OnLine Plus 30.0.014
Wind Code: ASCE 7-10 Wind Speed: 120 mph Floor Load: N/A psf
Roof Load: 40.0 psf

This package includes 8 individual, dated Truss Design Drawings and 0 Additional Drawings.
With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

No.	Seal#	Truss Name	Date
1	T4579781	A1	10/19/012
2	T4579782	A2	10/19/012
3	T4579783	A3GIR	10/19/012
4	T4579784	CJ1	10/19/012
5	T4579785	J1	10/19/012
6	T4579786	J2	10/19/012
7	T4579787	J3	10/19/012
8	T4579788	J4	10/19/012



The truss drawing(s) referenced above have been prepared by MiTek Industries, Inc. under my direct supervision based on the parameters provided by Mayo Truss Company, Inc..

Truss Design Engineer's Name: Magid, Michael

My license renewal date for the state of Florida is February 28, 2013.

NOTE: The seal on these drawings indicate acceptance of professional engineering responsibility solely for the truss components shown. The suitability and use of this component for any particular building is the responsibility of the building designer, per ANSI/TPI-1 Sec. 2.



FL Cert. 6634

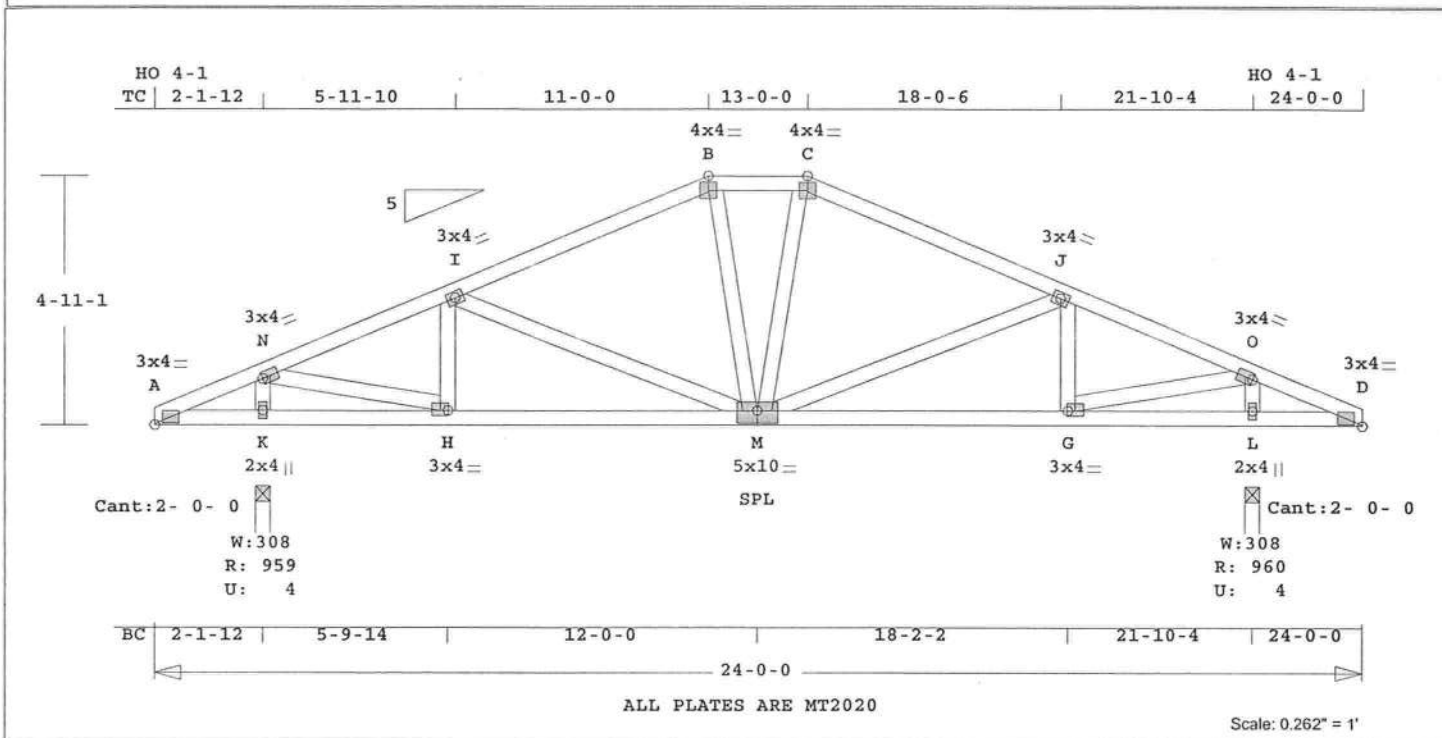
October 19, 2012

Magid, Michael

1 of 1

Job	Mark	Quan	Type	Span	Pl-Hl	Left OH	Right OH	Engineering
HAYGOOD-BELL	AI	2	HIPP	240000	5	0	0	T4579781

BELL GARAGE



Online Plus -- Version 30.0.014
RUN DATE: 19-OCT-12

Southern Pine lumber design
values are those effective
06-01-12 by SPIB//ALSC UON
CSI -Size- ----Lumber----

TC	0.30	2x 4	SP-#2
BC	0.37	2x 4	SP-#2
WB	0.25	2x 4	SP-#2

Brace truss as follows:

	O.C.	From	To
TC	Cont.	0- 0- 0	24- 0- 0
or	48.0"	0- 0- 0	24- 0- 0
BC	Cont.	0- 0- 0	24- 0- 0
or	72.0"	0- 0- 0	24- 0- 0

psf-Ld	Dead	Live
TC	10.0	20.0
BC	10.0	0.0
TC+BC	20.0	20.0
Total	40.0	Spacing 24.0"
Lumber	Duration Factor	1.25
Plate	Duration Factor	1.25
	Fb	Fc
TC	1.15	1.10
BC	1.10	1.10

Total Load Reactions (Lbs)

Jt	Down	Uplift	Horiz
K	960	4 U	56 R
L	960	4 U	56 R

Jt	Brg Size	Required
K	3.5"	1.5"
L	3.5"	1.5"

Plus 21 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)
Plus 1 DL Load Case(s)

Membr	CSI	P Lbs	Ax1-CSI-Bnd
-----Top Chords-----			
A - N	0.12	118 T	0.02 0.10
N - I	0.23	1012 C	0.01 0.22
I - B	0.30	870 C	0.01 0.29
B - C	0.10	822 C	0.01 0.09
C - J	0.30	870 C	0.01 0.29
J - O	0.23	1012 C	0.01 0.22
O - D	0.12	118 T	0.02 0.10
-----Bottom Chords-----			
A - K	0.08	115 T	0.00 0.08
K - H	0.14	116 T	0.00 0.14
H - M	0.37	940 T	0.12 0.25

MiTek® Online Plus™ APPROX. TRUSS WEIGHT: 158.6 LBS

M - G	0.37	940 T	0.12 0.25
G - L	0.14	115 T	0.00 0.14
L - D	0.08	115 T	0.00 0.08

K - N	0.12	871 C
N - H	0.25	1070 T
H - I	0.02	174 C
I - M	0.12	167 C
B - M	0.03	179 T
M - C	0.03	179 T
M - J	0.12	167 C
G - J	0.02	174 C
G - O	0.25	1070 T
L - O	0.12	871 C

TL Defl	-0.10"	in M - G	L/999
LL Defl	-0.04"	in M - G	L/999
LL Cant	0.00"	in A - K	L/999
Shear //	Grain	in I - B	0.19

Plates for each ply each face.

Plate - MT20	20 Ga,	Gross Area
Plate - MT2H	20 Ga,	Gross Area
Jt Type	Plt Size	X Y JSI
A	MT20	3.0x 4.0 Ctr Ctr 0.54
N	MT20	3.0x 4.0 Ctr Ctr 0.69
I	MT20	3.0x 4.0 Ctr Ctr 0.45
B	MT20	4.0x 4.0 Ctr Ctr 0.63
C	MT20	4.0x 4.0 Ctr Ctr 0.63
J	MT20	3.0x 4.0 Ctr Ctr 0.45
O	MT20	3.0x 4.0 Ctr Ctr 0.69
D	MT20	3.0x 4.0 Ctr Ctr 0.54
K	MT20	2.0x 4.0 Ctr Ctr 0.34
H	MT20	3.0x 4.0-1.7 0.2 0.74
M	MT20	5.0x10.0 Ctr-0.5 0.51
G	MT20	3.0x 4.0 1.7 0.2 0.74
L	MT20	2.0x 4.0 Ctr Ctr 0.34

REVIEWED BY:
MiTek Industries, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

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

NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2010
TPI 2007

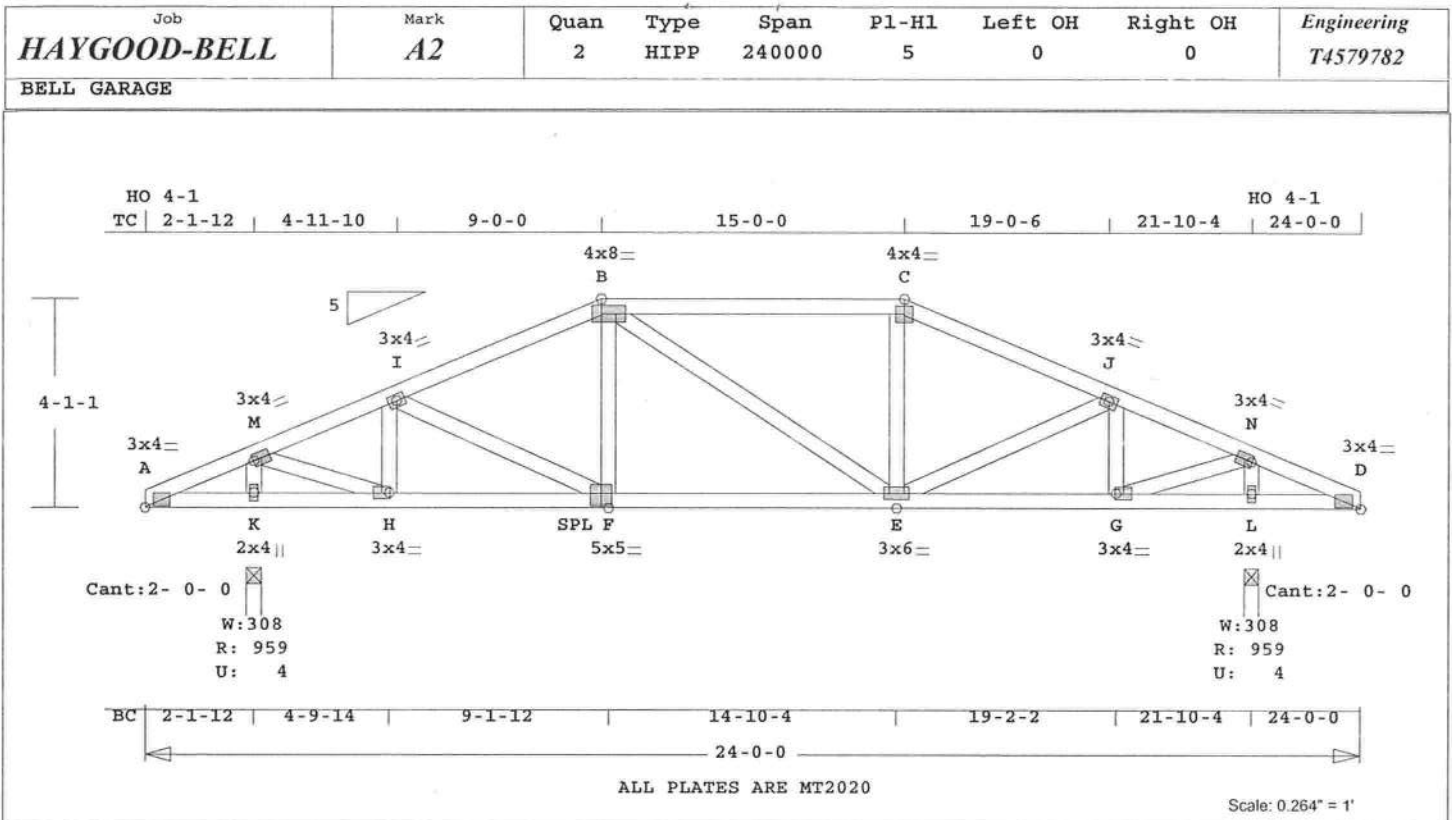
This truss has been designed
for 20.0 psf LL on the B.C.

in areas where a rectangle
3- 6- 0 tall by
2- 0- 0 wide
will fit between the B.C.
and any other member.
Design checked for 10 psf non-
concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-10
Truss is designed as
Components and Claddings*
for Exterior zone location.
Wind Speed: 120 mph
Risk Category : II
Mean Roof Height: 15-0
Exposure Category: B
Building Type: Enclosed
TC Dead Load: 6.0 psf
BC Dead Load: 6.0 psf
Max comp. force 1012 Lbs
Max tens. force 1070 Lbs
Connector Plate Fabrication
Tolerance = 20%
This truss is designed for a
creep factor of 1.5 which
is used to calculate total
load deflection.



FL Cert. 6634

October 19, 2012



Online Plus -- Version 30.0.014
RUN DATE: 19-OCT-12

Southern Pine lumber design values are those effective 06-01-12 by SPIB//ALSC UON
CSI -Size- Lumber-----
TC 0.44 2x 4 SP-#2
BC 0.29 2x 4 SP-#2
WB 0.23 2x 4 SP-#2

Brace truss as follows:

	O.C.	From	To
TC Cont.	0- 0- 0	24- 0- 0	0
or 48.0"	0- 0- 0	24- 0- 0	0
BC Cont.	0- 0- 0	24- 0- 0	0
or 72.0"	0- 0- 0	24- 0- 0	0

psf-Ld	Dead	Live
TC	10.0	20.0
BC	10.0	0.0
TC+BC	20.0	20.0
Total	40.0	Spacing 24.0"
Lumber	Duration Factor 1.25	
Plate	Duration Factor 1.25	
	Fb	Fc Ft Emin
TC	1.15	1.10 1.10 1.10
BC	1.10	1.10 1.10 1.10

Total Load Reactions (Lbs)

Jt	Down	Uplift	Horiz
K	960	4 U	45 R
L	960	4 U	45 R

Jt	Brg Size	Required
K	3.5"	1.5"
L	3.5"	1.5"

Plus 21 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)
Plus 1 DL Load Case(s)

Membr CSI P Lbs Ax1-CSI-Bnd

-----Top Chords-----				
A -M	0.11	132 T	0.03	0.08
M -I	0.10	892 C	0.02	0.08
I -B	0.20	995 C	0.01	0.19
B -C	0.44	924 C	0.01	0.43
C -J	0.19	996 C	0.01	0.18
J -N	0.10	892 C	0.02	0.08
N -D	0.11	132 T	0.03	0.08
-----Bottom Chords-----				
A -K	0.07	120 T	0.00	0.07
K -H	0.07	121 T	0.00	0.07
H -F	0.25	823 T	0.10	0.15
F -E	0.29	921 T	0.19	0.10

MiTek® Online Plus™ APPROX. TRUSS WEIGHT: 154.9 LBS

E -G	0.27	823 T	0.17	0.10
G -L	0.07	120 T	0.00	0.07
L -D	0.07	120 T	0.00	0.07
-----Webs-----				
K -M	0.12	873 C		
M -H	0.23	990 T		
H -I	0.04	275 C		
I -F	0.02	118 T		
F -B	0.03	174 T		
B -E	0.03	44 T		
E -C	0.03	175 T		
E -J	0.02	120 T		
G -J	0.04	278 C		
G -N	0.23	990 T		
L -N	0.12	871 C		

TL Defl	-0.10"	in F -E	L/999
LL Defl	-0.03"	in F -E	L/999
LL Cant	0.00"	in A -K	L/999
Shear // Grain		in B -C	0.21

Plates for each ply each face.

Plate	MT20	20 Ga, Gross Area
Plate - MT20	20 Ga, Gross Area	
Jt Type	Plt Size	X Y JSI
A	MT20	3.0x 4.0 Ctr Ctr 0.54
M	MT20	3.0x 4.0 Ctr Ctr 0.65
I	MT20	3.0x 4.0 Ctr Ctr 0.45
B	MT20	4.0x 8.0 Ctr Ctr 0.61
C	MT20	4.0x 4.0 Ctr Ctr 0.87
J	MT20	3.0x 4.0 Ctr Ctr 0.45
N	MT20	3.0x 4.0 Ctr Ctr 0.65
D	MT20	3.0x 4.0 Ctr Ctr 0.54
K	MT20	2.0x 4.0 Ctr Ctr 0.32
H	MT20	3.0x 4.0 Ctr Ctr 0.70
F	MT20	5.0x 5.0 Ctr-0.5 0.57
E	MT20	3.0x 6.0 Ctr Ctr 0.56
G	MT20	3.0x 4.0 Ctr Ctr 0.70
L	MT20	2.0x 4.0 Ctr Ctr 0.34

REVIEWED BY:
MiTek Industries, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

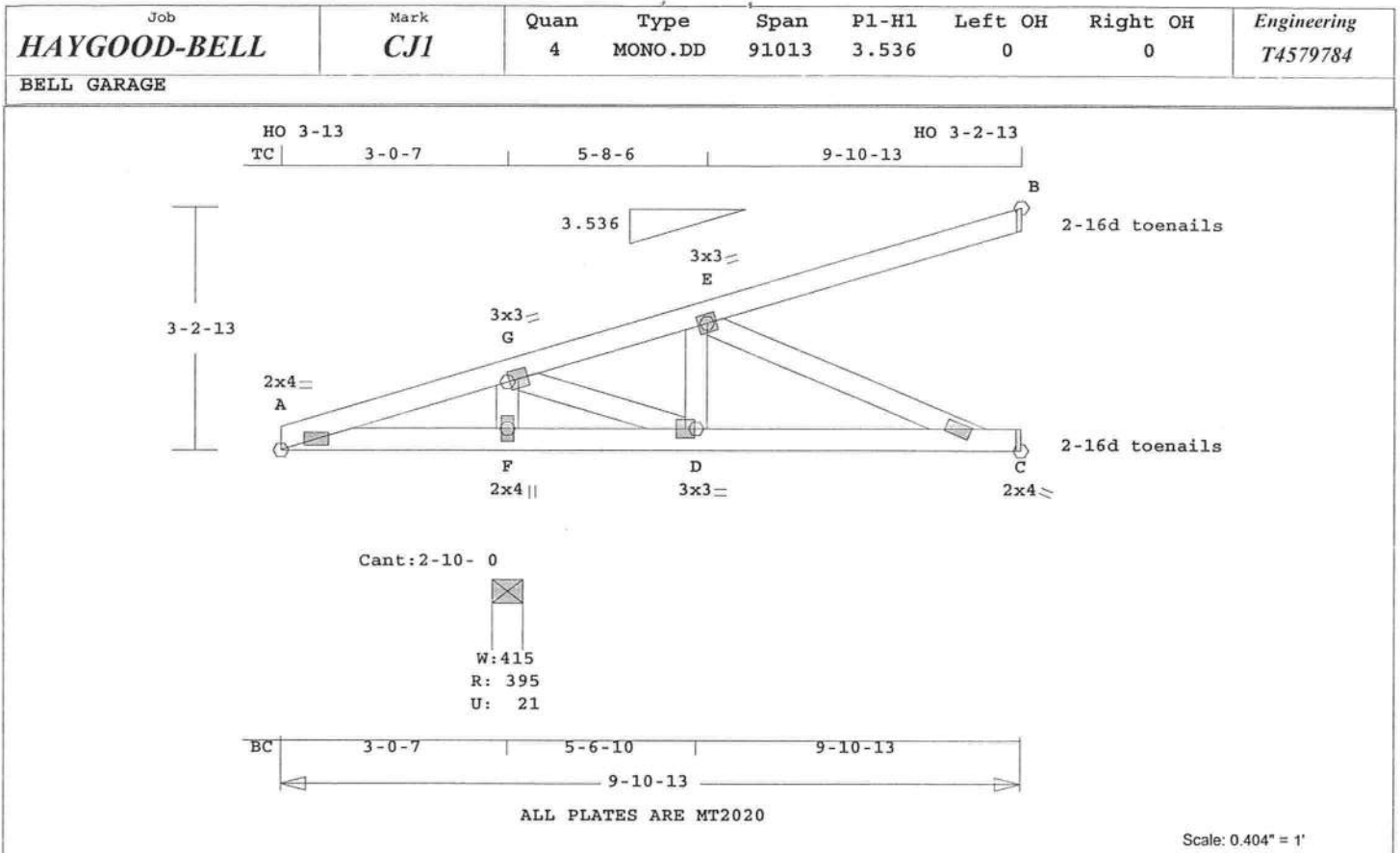
REFER TO ONLINE PLUS GENERAL
NOTES AND SYMBOLS SHEET FOR
ADDITIONAL SPECIFICATIONS.

NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2010
TPI 2007
This truss has been designed

for 20.0 psf LL on the B.C.
in areas where a rectangle
3- 6- 0 tall by
2- 0- 0 wide
will fit between the B.C.
and any other member.
Design checked for 10 psf non-
concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-10
Truss is designed as
Components and Claddings*
for Exterior zone location.
Wind Speed: 120 mph
Risk Category: II
Mean Roof Height: 15-0
Exposure Category: B
Building Type: Enclosed
TC Dead Load: 6.0 psf
BC Dead Load: 6.0 psf
Max comp. force 996 Lbs
Max tens. force 990 Lbs
Connector Plate Fabrication
Tolerance = 20%
This truss is designed for a
creep factor of 1.5 which
is used to calculate total
load deflection.



FL Cert. 6634



Online Plus -- Version 30.0.014
RUN DATE: 19-OCT-12

Southern Pine lumber design
values are those effective
06-01-12 by SPIB//ALSC UON
CSI -Size- ---Lumber---
TC 0.46 2x 4 SP-#2
BC 0.35 2x 4 SP-#2
WB 0.15 2x 4 SP-#2

Brace truss as follows:
O.C. From To
TC Cont. 0-0-0 9-7-5
or 48.0" 0-0-0 9-7-5
BC Cont. 0-0-0 9-7-5
or 69.3" 0-0-0 9-7-5

psf-Ld	Dead	Live
TC	10.0	20.0
BC	10.0	0.0
TC+BC	20.0	20.0
Total	40.0	24.0
Lumber	Duration Factor	1.25
Plate	Duration Factor	1.25
	Fb	Fc
TC	1.00	1.00
BC	1.00	1.00

Total Load Reactions (Lbs)
Jt Down Uplift Horiz-
F 395 22 U 68 R
C 260
B 213 41 U 46 R

Jt	Brg Size	Required
F	4.9"	1.5"
C	3.5"	1.5"
B	1.5"	1.5"

LC# 1 Girder Loading
Dur Fctrs - Lbr 1.25 Plt 1.25
plf - Dead Live* From To
TC V 20 40 0.0' 9.9'
BC V 20 0 0.0' 9.9'
TC V -20 -40 0.0' 9.9'
BC V -20 0 0.0' 9.9'

Plus 18 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)
Plus 1 DL Load Case(s)

Membr CSI P Lbs Axl-CSI-Bnd

MiTek® Online Plus™ APPROX. TRUSS WEIGHT: 54.2 LBS

-----Top Chords-----
A -G 0.04 204 C 0.00 0.04
G -E 0.29 412 C 0.00 0.29
E -B 0.46 65 C 0.00 0.46
-----Bottom Chords-----
A -F 0.07 199 T 0.03 0.04
F -D 0.17 199 T 0.00 0.17
D -C 0.35 409 T 0.05 0.30
C -C 0.16 0 T 0.00 0.16
-----Webs-----
F -G 0.05 364 C
G -D 0.11 501 T
D -E 0.02 155 T
E -C 0.15 445 C

TL Defl -0.06" in D -C L/999
LL Defl -0.03" in D -C L/999
LL Cant 0.00" in A -F L/999
Shear // Grain in C -C 0.29

Plates for each ply each face.
Plate - MT20 20 Ga, Gross Area
Plate - MT2H 20 Ga, Gross Area
Jt Type Plt Size X Y JSI
A MT20 2.0x 4.0 Ctr Ctr 0.76
G MT20 3.0x 3.0 Ctr Ctr 0.43
E MT20 3.0x 3.0 Ctr Ctr 0.33
F MT20 2.0x 4.0 Ctr Ctr 0.13
D MT20 3.0x 3.0 Ctr Ctr 0.48
C MT20 2.0x 4.0 Ctr Ctr 0.31

REVIEWED BY:
MiTek Industries, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

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

For proper installation of
toe-nails, refer to the 2005
National Design Specification
(NDS) for Wood Construction

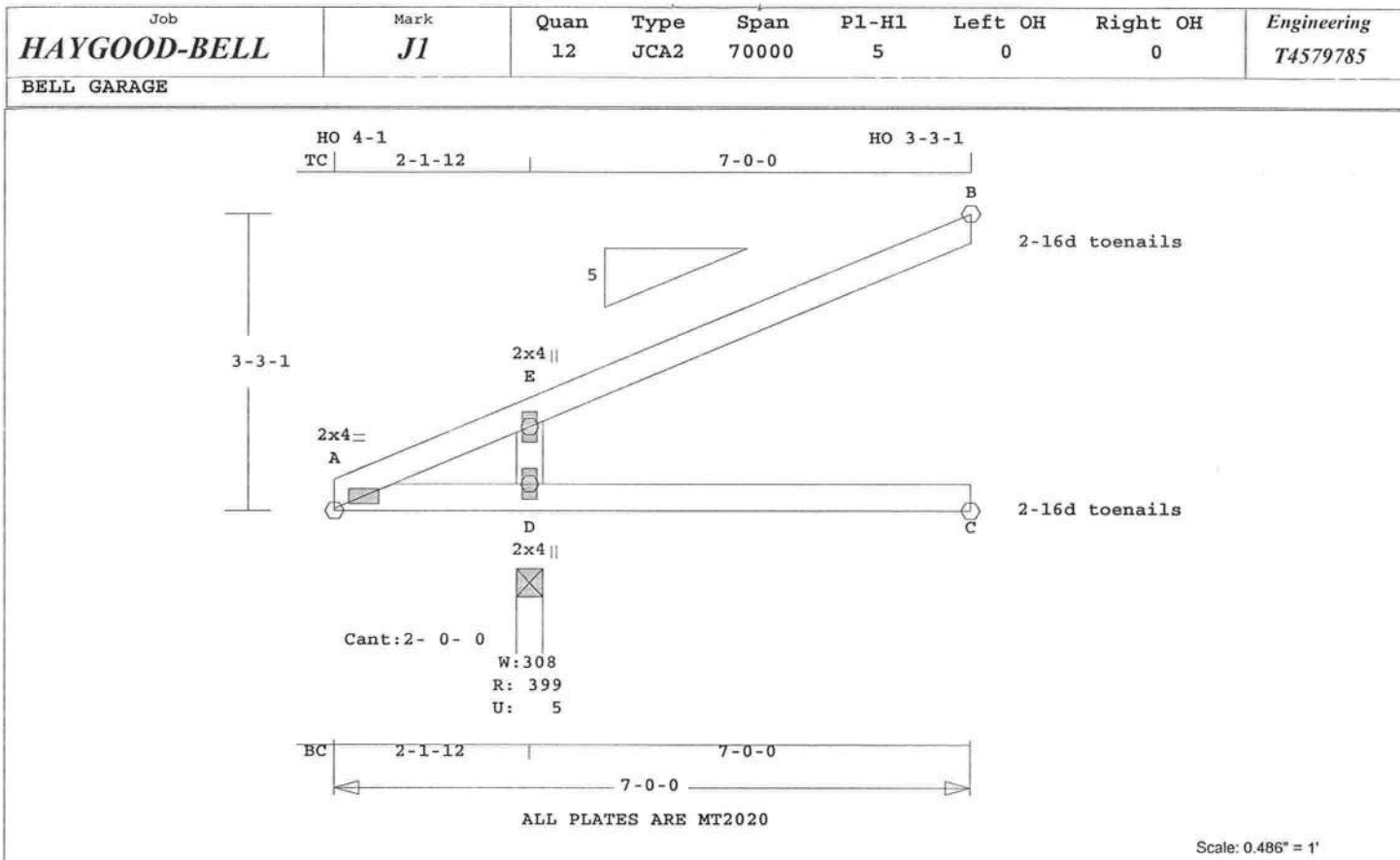
NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2010
TPI 2007
Girder King Jack
Loading TC and BC
Setback 7- 0- 0
Design checked for 10 psf non-

concurrent LL on BC.
Use properly rated hangers for
loads framing into girder
truss.
Wind Loads - ANSI / ASCE 7-10
Truss is designed as
Components and Claddings*
for Exterior zone location.
Wind Speed: 120 mph
Risk Category : II
Mean Roof Height: 15-0
Exposure Category: B
Building Type: Enclosed
TC Dead Load: 6.0 psf
BC Dead Load: 6.0 psf
Max comp. force 445 Lbs
Max tens. force 501 Lbs
Connector Plate Fabrication
Tolerance = 20%
This truss is designed for a
creep factor of 1.5 which
is used to calculate total
load deflection.



FL Cert. 6634

October 19,2012



Online Plus -- Version 30.0.014
RUN DATE: 19-OCT-12

Southern Pine lumber design
values are those effective
06-01-12 by SPIB//ALSC UON

CSI	Size	Lumber
TC	0.30	2x 4 SP-#2
BC	0.17	2x 4 SP-#2
WB	0.04	2x 4 SP-#2

Brace truss as follows:

O.C.	From	To
TC Cont.	0-0-0	6-8-8
or 48.0"	0-0-0	6-8-8
BC Cont.	0-0-0	6-8-8
or 84.0"	0-0-0	6-8-8

psf-Ld	Dead	Live
TC	10.0	20.0
BC	10.0	0.0
TC+BC	20.0	20.0
Total	40.0	Spacing 24.0"
Lumber	Duration Factor	1.25
Plate	Duration Factor	1.25
	Fb	Fc
TC	1.15	1.10
BC	1.10	1.10

Total Load Reactions (Lbs)

Jt	Down	Uplift	Horiz
D	399	6 U	64 R
C	81		
B	121	31 U	43 R

Jt	Brg Size	Required
D	3.5"	1.5"
C	3.5"	1.5"
B	1.5"	1.5"

Plus 15 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)
Plus 1 DL Load Case(s)

Membr	CSI	P Lbs	Ax1-CSI-Bnd
-----Top Chords-----			
A -E	0.27	184 C	0.01 0.26
E -B	0.30	75 C	0.00 0.30

MiTek® Online Plus™ APPROX. TRUSS WEIGHT: 29.1 LBS

-----Bottom Chords-----					
A -D	0.17	169 T	0.02	0.15	
D -C	0.16	0 T	0.00	0.16	
-----Webs-----					
D -E	0.04	302 C	WindLd		

TL Defl	-0.03"	in D -C	L/999
LL Defl	-0.02"	in D -C	L/999
LL Cant	0.00"	in A -D	L/999
Hx Disp	LL	DL	TL
Jt B	0.04"	0.00"	0.04"
Shear //	Grain	in E -B	0.20

Plates for each ply each face.
Plate - MT20 20 Ga, Gross Area
Plate - MT2H 20 Ga, Gross Area
Jt Type Plt Size X Y JSI
A MT20 2.0x 4.0 Ctr Ctr 0.68
E MT20 2.0x 4.0 Ctr Ctr 0.17
D MT20 2.0x 4.0 Ctr Ctr 0.20

REVIEWED BY:
MiTek Industries, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

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

For proper installation of
toe-nails, refer to the 2005
National Design Specification
(NDS) for Wood Construction

NOTES:

Trusses Manufactured by:

Mayo Truss Co. Inc.

Analysis Conforms To:

FBC2010

TPI 2007

This truss has been designed
for 20.0 psf LL on the B.C.
in areas where a rectangle
3- 6- 0 tall by
2- 0- 0 wide
will fit between the B.C.
and any other member.

Design checked for 10 psf non-
concurrent LL on BC.

Wind Loads - ANSI / ASCE 7-10

Truss is designed as

Components and Claddings*

for Exterior zone location.

Wind Speed: 120 mph

Risk Category : II

Mean Roof Height: 15-0

Exposure Category: B

Building Type: Enclosed

TC Dead Load: 6.0 psf

BC Dead Load: 6.0 psf

Max comp. force 302 Lbs

Max tens. force 250 Lbs

Connector Plate Fabrication

Tolerance = 20%

This truss is designed for a

creep factor of 1.5 which

is used to calculate total

load deflection.

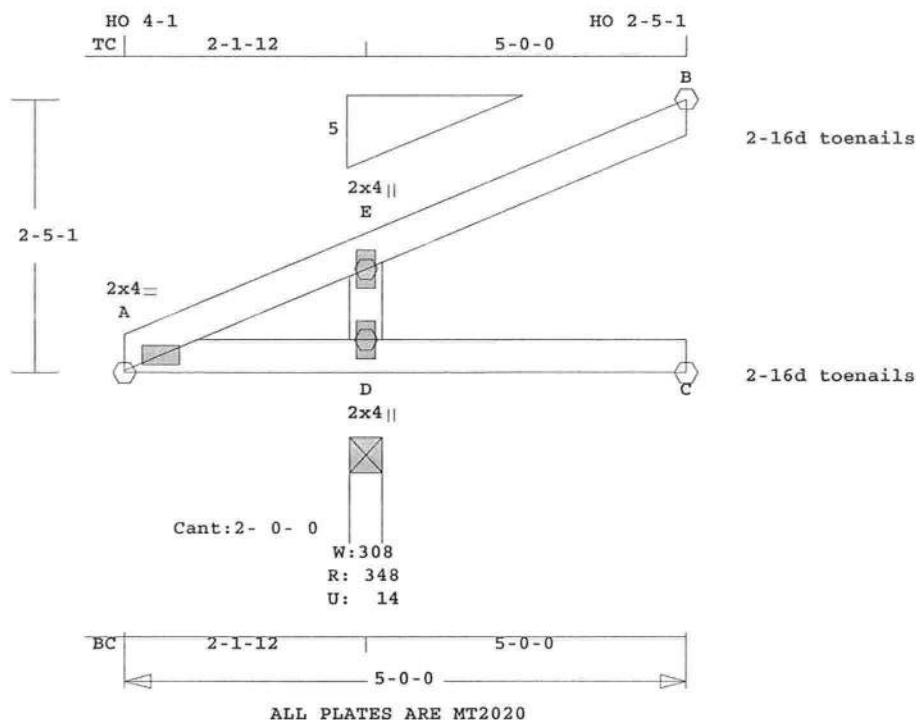


FL Cert. 6634

October 19, 2012

Job	Mark	Quan	Type	Span	Pl-H1	Left OH	Right OH	Engineering
HAYGOOD-BELL	J2	8	JCA2	50000	5	0	0	T4579786

BELL GARAGE



Online Plus -- Version 30.0.014
RUN DATE: 19-OCT-12

Southern Pine lumber design
values are those effective
06-01-12 by SPIB//ALSC UON
CSI -Size- ----Lumber----

TC	0.20	2x 4	SP-#2
BC	0.17	2x 4	SP-#2
WB	0.03	2x 4	SP-#2

Brace truss as follows:

O.C.	From	To
TC Cont.	0- 0- 0	4- 8- 8
or 48.0"	0- 0- 0	4- 8- 8
BC Cont.	0- 0- 0	4- 8- 8
or 60.0"	0- 0- 0	4- 8- 8

psf-Ld	Dead	Live
TC	10.0	20.0
BC	10.0	0.0
TC+BC	20.0	20.0
Total	40.0	Spacing 24.0"
Lumber	Duration Factor	1.25
Plate	Duration Factor	1.25
	Fb	Fc
TC	1.15	1.10
BC	1.10	1.10

Total Load Reactions (Lbs)

Jt	Down	Uplift	Horiz
D	348	15 U	45 R
C	32		
B	52	19 U	30 R

G = Gravity Uplift

Jt	Brg Size	Required
D	3.5"	1.5"
C	3.5"	1.5"
B	1.5"	1.5"

Plus 15 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)
Plus 1 DL Load Case(s)

Membr	CSI	P Lbs	Axl	CSI-Bnd
-----Top Chords-----				
A -E	0.20	139 C	0.00	0.20

MiTek® Online Plus™ APPROX. TRUSS WEIGHT: 21.2 LBS

E -B	0.20	50 C	0.00	0.20
-----Bottom Chords-----				
A -D	0.17	140 T	0.00	0.17
D -C	0.17	0 T	0.00	0.17
-----Webs-----				
D -E	0.03	226 C	WindLd	
TL Defl	0.01"	in D -C	L/999	
LL Defl	0.00"	in D -C	L/999	
LL Cant	-0.02"	in A -D	L/999	
Hz Disp	LL	DL	TL	
Jt B	0.01"	0.02"	0.03"	
Shear //	Grain	in E -B	0.14	

Plates for each ply each face.
Plate - MT20 20 Ga, Gross Area
Plate - MT2H 20 Ga, Gross Area
Jt Type Plt Size X Y JSI
A MT20 2.0x 4.0 Ctr Ctr 0.68
E MT20 2.0x 4.0 Ctr Ctr 0.17
D MT20 2.0x 4.0 Ctr Ctr 0.17

REVIEWED BY:
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Tampa, FL 33610

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Analysis Conforms To:
FBC2010
TPI 2007
This truss has been designed
for 20.0 psf LL on the B.C.
in areas where a rectangle
3- 6- 0 tall by
2- 0- 0 wide
will fit between the B.C.

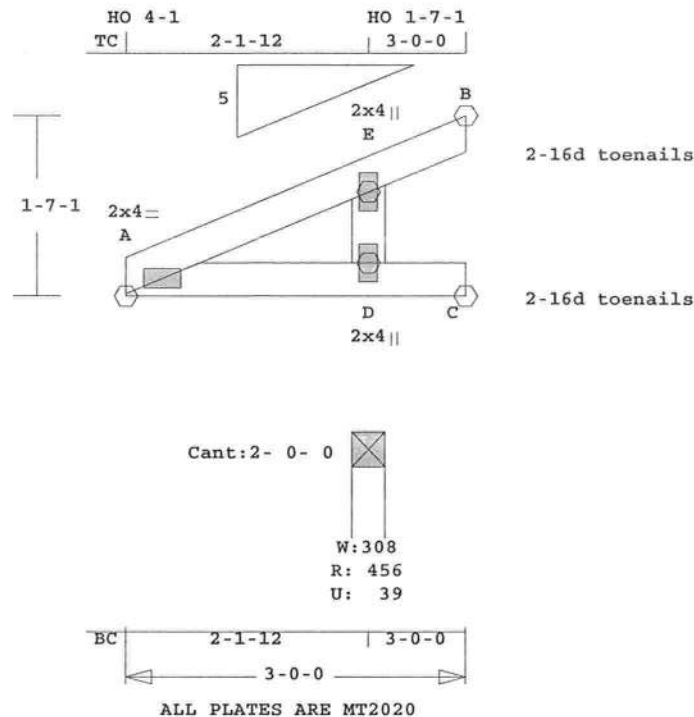
and any other member.
Design checked for 10 psf non-
concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-10
Truss is designed as
Components and Claddings*
for Exterior zone location.
Wind Speed: 120 mph
Risk Category : II
Mean Roof Height: 15-0
Exposure Category: B
Building Type: Enclosed
TC Dead Load: 6.0 psf
BC Dead Load: 6.0 psf
Max comp. force 226 Lbs
Max tens. force 212 Lbs
Connector Plate Fabrication
Tolerance = 20%
This truss is designed for a
creep factor of 1.5 which
is used to calculate total
load deflection.



FL Cert. 6634

October 19, 2012

BELL GARAGE



Scale: 0.586" = 1'

Online Plus -- Version 30.0.014
RUN DATE: 19-OCT-12

Southern Pine lumber design values are those effective 06-01-12 by SPIB//ALSC UON

	CSI	-Size-	----	Lumber----
TC	0.18	2x 4	SP-#2	
BC	0.19	2x 4	SP-#2	
WB	0.04	2x 4	SP-#2	

Brace truss as follows:

	O.C.	From	To
TC	Cont.	0- 0- 0	2- 8- 8
or	36.0"	0- 0- 0	2- 8- 8
BC	Cont.	0- 0- 0	2- 8- 8
or	36.0"	0- 0- 0	2- 8- 8

psf-Ld	Dead	Live		
TC	10.0	20.0		
BC	10.0	0.0		
TC+BC	20.0	20.0		
Total	40.0	Spacing	24.0"	
Lumber	Duration Factor		1.25	
Plate	Duration Factor		1.25	
	Fb	Fc	Ft	Emin
TC	1.15	1.10	1.10	1.10
BC	1.10	1.10	1.10	1.10

Total Load Reactions (Lbs)

Jt	Down	Uplift	Horiz-
D	456	39 U	27 R
C	14	120 G	
B	2	96 G	18 R
G = Gravity Uplift			

Jt	Brg Size	Required
D	3.5"	1.5"
C	3.5"	1.5"
B	1.5"	1.5"

```
Plus 15 Wind Load Case(s)
Plus  1 UBC LL Load Case(s)
Plus  1 DL Load Case(s)
```

```

Membr  CSI  P  Lbs  Axl-CSt-Bnd
-----Top Chords-----

```

MiTek® Online Plus™ APPROX. TRUSS WEIGHT: 13.3 LBS

```

A -E 0.18      81 C 0.00 0.18
E -B 0.18      48 C 0.00 0.18
-----Bottom Chords-----
A -D 0.19      99 T 0.00 0.19
D -C 0.19       0 T 0.00 0.19
-----Webs-----
D -E 0.04      268 T WindLd

```

TL Defl	0.00"	in F	-E	L/999
LL Defl	0.00"	in F	-E	L/999
LL Cant	-0.02"	in A	-D	L/999
Shear //	Grain	in E	-B	0.17

Plates for each ply each face.
 Plate - MT20 20 Ga, Gross Area
 Plate - MT2H 20 Ga, Gross Area

Jt Type	Plt Size	X	Y	JSI
A MT20	2.0x 4.0	Ctr	Ctr	0.68
E MT20	2.0x 4.0	Ctr	Ctr	0.21
D MT20	2.0x 4.0	Ctr	Ctr	0.23

REVIEWED BY:
MiTek Industries, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

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

For proper installation of toe-nails, refer to the 2005 National Design Specification (NDS) for Wood Construction

NOTES:

Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2010
TPI 2007

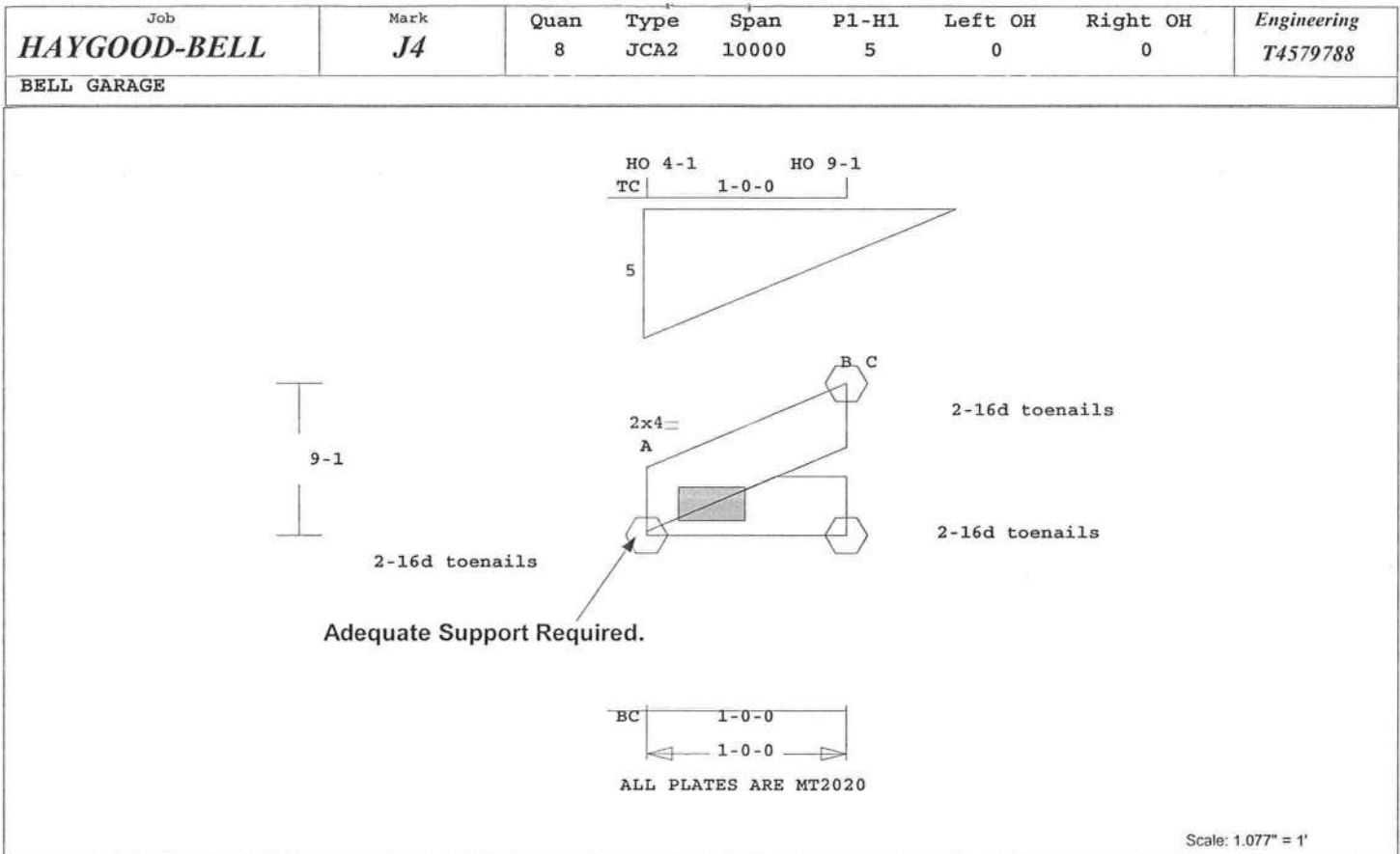
Truss truss has been designed
for 20.0 psf LL on the B.C.
in areas where a rectangle
3- 6- 0 tall by
2- 0- 0 wide
will fit between the B.C.

and any other member.
Design checked for 10 psf non-
concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-10
Truss is designed as
Components and Claddings*
for Exterior zone location.
Wind Speed: 120 mph
Risk Category : II
Mean Roof Height: 15-0
Exposure Category: B
Building Type: Enclosed
TC Dead Load: 6.0 psf
BC Dead Load: 6.0 psf
Max comp. force 245 Lbs
Max tens. force 268 Lbs
Connector Plate Fabrication
Tolerance = 20%
This truss is designed for a
creep factor of 1.5 which
is used to calculate total
load deflection.



FL Cert. 6634

October 19, 2012



Online Plus -- Version 30.0.014
RUN DATE: 19-OCT-12

Southern Pine lumber design
values are those effective
06-01-12 by SPIB//ALSC UON
CSI -Size- ----Lumber----
TC 0.00 2x 4 SP-#2
BC 0.00 2x 4 SP-#2

Brace truss as follows:
O.C. From To
TC Cont. 0- 0- 0 1- 0- 0
or 12.0" 0- 0- 0 1- 0- 0
BC Cont. 0- 0- 0 1- 0- 0
or 12.0" 0- 0- 0 1- 0- 0

psf-Ld	Dead	Live
TC	10.0	20.0
BC	10.0	0.0
TC+BC	20.0	20.0
Total	40.0	24.0"
Lumber	Duration Factor	1.25
Plate	Duration Factor	1.25
	Fb	Fc
TC	1.15	1.10
BC	1.10	1.10

Total Load Reactions (Lbs)
Jt Down Uplift Horiz-
A 37 4 U 8 R
B 26 4 U 6 R
C 18 4 U 6 R

Jt	Brg Size	Required
A	3.5"	1.5"
B	1.5"	1.5"
C	1.5"	1.5"

Plus 15 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)
Plus 1 DL Load Case(s)

Membr CSI P Lbs Axl-Csi-Bnd
-----Top Chords-----
A -B 0.00 13 C
-----Bottom Chords-----

MiTek® Online Plus™ APPROX. TRUSS WEIGHT: 4.2 LBS
A -C 0.00 5 T

TL Defl 0.00" in F -G L/999
LL Defl 0.00" in F -G L/999
Shear // Grain in B -B 0.02

Plates for each ply each face.
Plate - MT20 20 Ga, Gross Area
Plate - MT2H 20 Ga, Gross Area
Jt Type Plt Size X Y JSI
A MT20 2.0x 4.0 Ctr Ctr 0.68

REVIEWED BY:
MiTek Industries, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

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

For proper installation of
toe-nails, refer to the 2005
National Design Specification
(NDS) for Wood Construction

NOTES:

Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2010
TPI 2007

This truss has been designed
for 20.0 psf LL on the B.C.
in areas where a rectangle
3- 6- 0 tall by
2- 0- 0 wide
will fit between the B.C.
and any other member.

Design checked for 10 psf non-
concurrent LL on BC.

Wind Loads - ANSI / ASCE 7-10
Truss is designed as

Components and Claddings*
for Exterior zone location.
Wind Speed: 120 mph
Risk Category : II

Mean Roof Height: 15-0
Exposure Category: B
Building Type: Enclosed
TC Dead Load: 6.0 psf
BC Dead Load: 6.0 psf
Max comp. force 13 Lbs
Max tens. force 5 Lbs
Connector Plate Fabrication
Tolerance = 20%
This truss is designed for a
creep factor of 1.5 which
is used to calculate total
load deflection.



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October 19, 2012

ONLINE PLUS GENERAL NOTES & SYMBOLS

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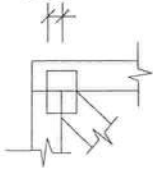
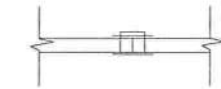


PLATE LOCATION

Center plates on joints unless otherwise noted in plate list or on drawing. Dimensions are given in inches (i.e. 1 1/2" or 1.5") or IN-16ths (i.e. 108)

FLOOR TRUSS SPLICE (3X2, 4X2, 6X2)



(W) = Wide Face Plate
(N) = Narrow Face Plate

LATERAL BRACING

Designates the location for continuous lateral bracing (CLB) for support of individual truss members only. CLBs must be properly anchored or restrained to prevent simultaneous buckling of adjacent truss members.

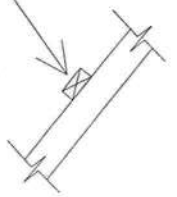
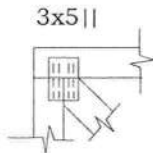


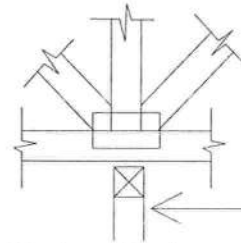
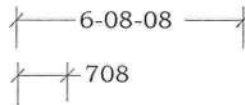
PLATE SIZE AND ORIENTATION



The first dimension is the width measured perpendicular to slots. The second dimension is the length measured parallel to slots. Plate orientation, shown next to plate size, indicates direction of slots in connector plates.

DIMENSIONS

All dimensions are shown in FT-IN-SX (i.e. 6'-8.5" or 6-08-08). Dimensions less than one foot are shown in IN-SX only (i.e. 708).



BEARING

When truss is designed to bear on multiple supports, interior bearing locations should be marked on the truss. Interior support or temporary shoring must be in place before trusses are installed. If necessary, shim bearings to assure solid contact with truss.

W = Actual Bearing Width (IN-SX)
R = Reaction (lbs.)
U = Uplift (lbs.)

Metal connector plates shall be applied on both faces of truss at each joint. Center the plates, unless indicated otherwise. No loose knots or wane in plate contact area. Splice only where shown. Overall spans assume 4" bearing at each end, unless indicated otherwise. Cutting and fabrication shall be performed using equipment which produces snug-fitting joints and plates. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication and the attached truss designs are not applicable for use with fire retardant lumber and some preservative treatments. Nails specified on Truss Design Drawings refer to common wire nails, except as noted. The attached design drawings were prepared in accordance with " National Design Specifications for Wood Construction" (AF & PA), " National Design Standard for Metal Plate Connected Wood Truss Construction" (ANSI/TPI 1), and HUD Design Criteria for Trussed Rafters.

Mitek Industries Inc. bears no responsibility for the erection of trusses, field bracing or permanent truss bracing. Refer to "Building Component Safety Information" (BCSI 1) as published by Truss Plate Institute, 218 North Lee Street, Suite 312, Alexandria, Virginia 22314. Persons erecting trusses are cautioned to seek professional advice concerning proper erection bracing to prevent toppling and " dominoing ". Care should be taken to prevent damage during fabrication, storage, shipping and erection. Top and bottom chords shall be adequately braced in the absence of sheathing or rigid ceiling, respectively. It is the responsibility of others to ascertain that design loads utilized on these drawings meet or exceed the actual dead loads imposed by the structure and the live loads imposed by the local building code or historical climatic records. When truss hangers are specified on the Truss Design Drawing, they must be installed per manufacturer's details and specifications.

FURNISH A COPY OF THE ATTACHED TRUSS DESIGN DRAWINGS TO ERECTION CONTRACTOR. IT IS THE RESPONSIBILITY OF THE BUILDING DESIGNER TO REVIEW THESE DRAWINGS AND VERIFY THAT DATA, INCLUDING DIMENSIONS & LOADS, CONFORM TO ARCHITECTURAL PLAN / SPECS AND THE TRUSS PLACEMENT DIAGRAM FURNISHED BY THE TRUSS MANUFACTURER.

MiTek®

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