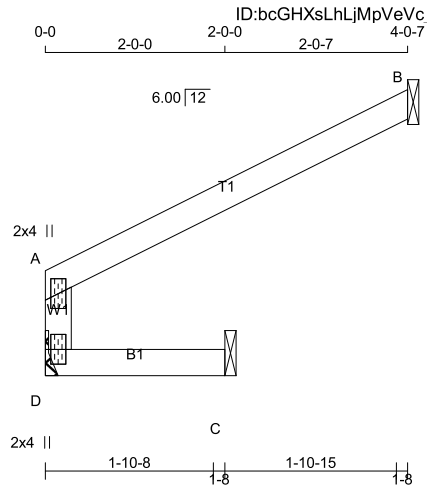


JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
IM0723-091	JOINT A	1	1	TRUSS DESC.	MHP 23030

PER: 
CHIEF BUILDING OFFICIAL



Scale = 1:25.7

TOTAL WEIGHT = 8 lb

LUMBER				
N. L. G. A. RULES	SIZE	LUMBER	DESCR.	
CHORDS			SPF	
D - A	2x4	DRY	No.2	SPF
A - B	2x4	DRY	No.2	SPF
D - C	2x4	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMV+p	MT20	2.0	4.0		
D	BMV1+p	MT20	2.0	4.0		

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER**BEARINGS**

JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
	VERT	HORZ	DOWN	HORZ
D	229	0	229	0
B	212	0	212	0
C	78	0	78	0

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT D. MINIMUM BEARING LENGTH AT JOINT D = 1-8.

SEE MITEK STANDARD DETAIL MSD2015-H FOR CONNECTION TO JOINT(S) B , C

UNFACTORED REACTIONS

JT	1ST LCASE	MAX./MIN.	COMPONENT REACTIONS				
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
D	159	123 / 0	0 / 0	0 / 0	0 / 0	36 / 0	0 / 0
B	145	123 / 0	0 / 0	0 / 0	0 / 0	22 / 0	0 / 0
C	55	35 / 0	0 / 0	0 / 0	0 / 0	20 / 0	0 / 0

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (LC)	
FR-TO		FROM TO		FR-TO			
D-A	-270 / 0	0.0	0.0 0.14 (1)				
A-B	-13 / 0	-119.4	-119.4 0.24 (1)				
D-C	0 / 0	-18.2	-18.2 0.16 (1)				

DESIGN CRITERIA**SPECIFIED LOADS:**

TOP CH.	LL	=	34.8	PSF
	DL	=	6.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.3	PSF
TOTAL LOAD	=	48.1	PSF	

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2015

THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018 , NBC-2019AE
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

(55 % OF 48.1 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 34.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.19")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.19")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.01")

CSI: TC=0.24/0.97 (A-B:1) , BC=0.16/0.97 (C-D:1) ,
WB=0.00/0.97 (n/a:0) , SSI=0.19/1.00 (A-B:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10
COMP=1.10 SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 1.00

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .

NAIL VALUES

PLATE	GRIP(DRY)	SHEAR	SECTION
(PSI)	(PLI)	(PLI)	(PLI)
MT20	650	371	1747

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.15 (A) (INPUT = 0.90)
JSI METAL= 0.11 (A) (INPUT = 1.00)



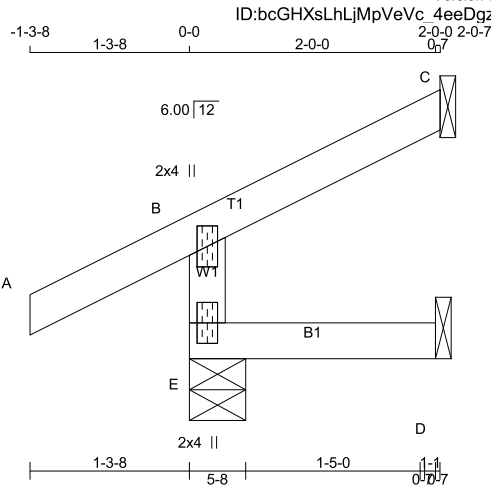
JULY 14, 2023

READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTES: TRUSSES. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.



JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
IM0723-091	TRUSS NAME	2	1	TRUSS DESC.	MHP 23030

PER: 
CHIEF BUILDING OFFICIAL



Scale = 1:18.7

TOTAL WEIGHT = 2 X 7 = 15 lb

LUMBER

N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
E - B	2x4	DRY	No.2	SPF
A - C	2x4	DRY	No.2	SPF
E - D	2x4	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	2.0	4.0		
E	BMV1+p	MT20	2.0	4.0		

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER**BEARINGS**

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT	VERT	HORZ	DOWN	HORZ
E	334	0	334	0
C	92	0	92	0
D	16	0	16	0

SEE MITEK STANDARD DETAIL MSD2015-H FOR CONNECTION TO JOINT(S) C , D

UNFACTORED REACTIONS

JT	1ST LCASE	MAX./MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
E	230	183 / 0	0 / 0	0 / 0	0 / 0	0 / 0	48 / 0	0 / 0
C	63	54 / 0	0 / 0	0 / 0	0 / 0	0 / 0	9 / 0	0 / 0
D	13	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	13 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) E

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

LOADING

TOTAL LOAD CASES: (5)

C H O R D S				W E B S			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED LC1 MAX (LC)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED LC1 MAX (LC)
FR-TO		FROM TO			FR-TO		
E-B	-313 / 0	0.0	0.0	0.01 (4)	7.81		
A-B	0 / 36	-119.4	-119.4	0.16 (1)	10.00		
B-C	-13 / 0	-119.4	-119.4	0.08 (1)	6.25		
E-D	0 / 0	-18.2	-18.2	0.02 (4)	10.00		

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

PATTERN-LOADING CHECK APPLIED TO THIS TRUSS.

DESIGN CRITERIA**SPECIFIED LOADS:**

TOP CH.	LL	=	34.8	PSF
	DL	=	6.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.3	PSF
TOTAL LOAD	=	48.1	PSF	

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2015

THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018 , NBC-2019AE
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

DESIGN ASSUMPTIONS

-OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55 % OF 48.1 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 34.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.19")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.19")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.00")

CSI: TC=0.16/0.97 (A-B:1) , BC=0.02/0.97 (D-E:4) ,
WB=0.00/0.97 (n/a:0) , SSI=0.11/1.00 (A-B:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10
COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .

NAIL VALUES

PLATE	GRIP(DRY)	SHEAR	SECTION
	(PSI)	(PLI)	(PLI)
	MAX	MIN	MAX
MT20	650	371	1747
	788	1987	1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.18 (B) (INPUT = 0.90)
JSI METAL= 0.13 (B) (INPUT = 1.00)



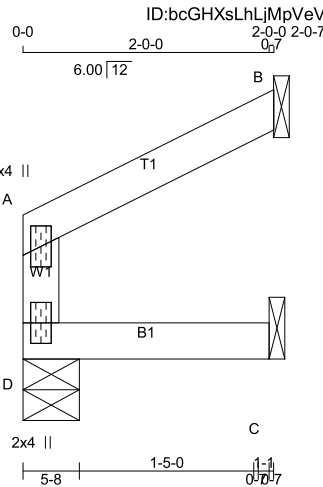
JULY 14, 2023

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JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
IM0723-091	J02A	1	1	TRUSS DESC.	MHP 23030

PER: 
CHIEF BUILDING OFFICIAL



Scale = 1:18.7

TOTAL WEIGHT = 6 lb

LUMBER

N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
D - A	2x4	DRY	No.2	SPF
A - B	2x4	DRY	No.2	SPF
D - C	2x4	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMV+p	MT20	2.0	4.0		
D	BMV1+p	MT20	2.0	4.0		

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER**BEARINGS**

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT	VERT	HORZ	DOWN	HORZ
D	140	0	140	0
B	113	0	113	0
C	27	0	27	0

SEE MITEK STANDARD DETAIL MSD2015-H FOR CONNECTION TO JOINT(S) B , C

UNFACTORED REACTIONS

JT	1ST LCASE	MAX./MIN.	COMPONENT REACTIONS
JT	COMBINED	SNOW	LIVE
D	98	71 / 0	0 / 0
B	77	65 / 0	0 / 0
C	21	6 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) D

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 10.00 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

LOADING

TOTAL LOAD CASES: (4)

C H O R D S				W E B S			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX LC1 MAX CSI (LC)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)
FR-TO		FROM	TO		FR-TO		
D - A	-130 / 0	0.0	0.0	0.02 (1)	7.81		
A - B	-4 / 0	-119.4	-119.4	0.06 (1)	10.00		
D - C	0 / 0	-18.2	-18.2	0.03 (1)	10.00		

DESIGN CRITERIA**SPECIFIED LOADS:**

TOP CH.	LL	=	34.8	PSF
	DL	=	6.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.3	PSF
TOTAL LOAD	=	48.1	PSF	

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2015

THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018 , NBC-2019AE
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

(55 % OF 48.1 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 34.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.19")
CALCULATED VERT. DEFL.(LL)= L/ 999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.19")
CALCULATED VERT. DEFL.(TL)= L/ 999 (0.00")

CSI: TC=0.06/0.97 (A-B:1) , BC=0.03/0.97 (C-D:1) ,
WB=0.00/0.97 (n/a:0) , SSI=0.09/1.00 (A-B:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10
COMP=1.10 SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 1.00

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .

NAIL VALUES

PLATE	GRIP(DRY)	SHEAR (PSI)	SECTION (PLI)
MT20	650	371	1747
	788	1987	1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.


JSI GRIP= 0.07 (A) (INPUT = 0.90)
JSI METAL= 0.05 (A) (INPUT = 1.00)



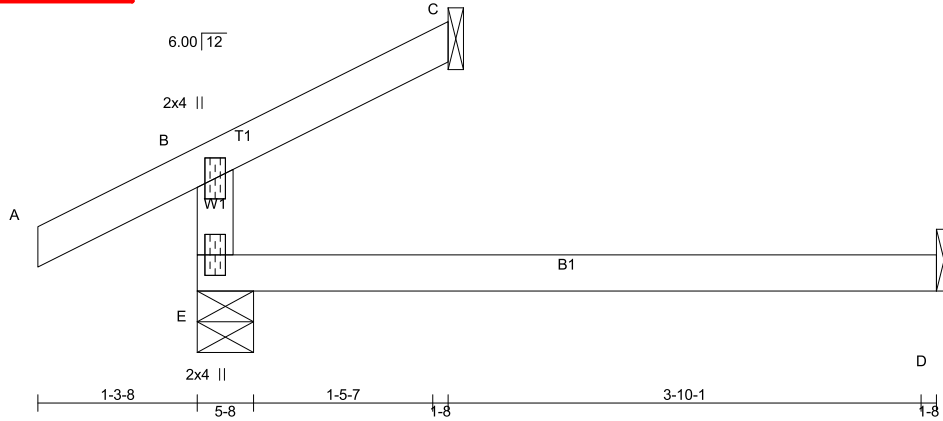
JULY 14, 2023

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JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
IM0723-091	TRUSS NAME	3	1	TRUSS DESC.	MHP 23030
Version 8.630 S Mar 22 2023 Mitek Industries, Inc. Fri Jul 14 07:34:52 2023 Page 1					
ID:bcGHXsLhLjMpVeVc_4eeDgzAk?y-UBb0coyJ2PHJqkbj3SV3IWx3Xc8zr5bn?Q?ummyE8X					
PER: 	4-3-5	0-0	2-0-7	2-0-7	3-11-9
CHIEF BUILDING OFFICIAL					

Scale = 1:18.7



TOTAL WEIGHT = 3 X 12 = 36 lb

LUMBER

N. L. G. A. RULES

CHORDS SIZE

E - B 2x4 DRY

A - C 2x4 DRY

E - D 2x4 DRY

LUMBER

No.2

No.2

No.2

DESCR.

SPF

SPF

SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	2.0	4.0		
E	BMV1+p	MT20	2.0	4.0		

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY**BUILDING DESIGNER****BEARINGS**

	FACTORED	MAXIMUM FACTORED	INPUT	REQD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	HORZ	UPLIFT	IN-SX
E	378	0	378	0
C	92	0	92	0
D	45	0	51	0

SEE MITEK STANDARD DETAIL MSD2015-H FOR CONNECTION TO JOINT(S) C, D

UNFACTORED REACTIONS

JT	1ST LCASE	MAX./MIN.	COMPONENT REACTIONS
JT	COMBINED	SNOW	LIVE
E	266	183 / 0	0 / 0
C	63	54 / 0	0 / 0
D	36	0 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) E, C

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.
 MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

LOADING

TOTAL LOAD CASES: (4)

C H O R D S				W E B S			
MEMB.	MAX. FACTORED	FACTORED	VERT. LOAD	MAX	MAX.	MEMB.	MAX. FACTORED
	FORCE	VERT. LOAD	LC1	MAX	MAX.		FORCE
	(LBS)	(PLF)	CSI (LC)	UNBRAC	LENGTH		(LBS)
FR-TO		FROM	TO		FR-TO		
E-B	-313 / 0	0.0	0.0	0.13 (4)	7.81		
A-B	0 / 36	-119.4	-119.4	0.16 (1)	10.00		
B-C	-13 / 0	-119.4	-119.4	0.08 (1)	6.25		
E-D	0 / 0	-18.2	-18.2	0.13 (4)	10.00		

DESIGN CRITERIA**SPECIFIED LOADS:**

TOP CH.	LL	=	34.8	PSF
	DL	=	6.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.3	PSF
TOTAL LOAD	=	48.1	PSF	

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2015

THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018, NBC-2019AE
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

DESIGN ASSUMPTIONS

-OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55 % OF 48.1 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 34.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.20")
 CALCULATED VERT. DEFL.(LL) = L/ 999 (0.00")
 ALLOWABLE DEFL.(TL)= L/360 (0.20")
 CALCULATED VERT. DEFL.(TL) = L/ 999 (0.03")

CSI: TC=0.16/0.97 (A-B:1), BC=0.13/0.97 (D-E:4),
 WB=0.00/0.97 (n/a:0), SSI=0.11/1.00 (A-B:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10
 COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES

PLATE	GRIP(DRY)	SHEAR	SECTION
(PSI)	(PLI)	(PLI)	(PLI)
	MAX	MIN	MAX
MT20	650	371	1747

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.18 (B) (INPUT = 0.90)
 JSI METAL= 0.13 (B) (INPUT = 1.00)



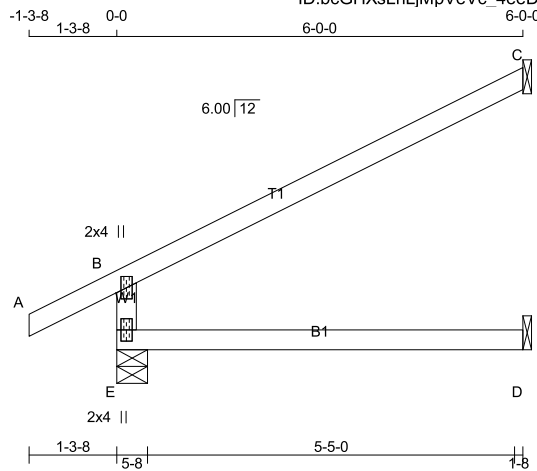
JULY 14, 2023

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JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
IM0723-091	TRUSS NAME	8	1	TRUSS DESC.	MHP 23030

PER: 
CHIEF BUILDING OFFICIAL



Scale = 1:34.0

TOTAL WEIGHT = 8 X 17 = 137 lb

LUMBER

N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
E - B	2x4	DRY	No.2	SPF
A - C	2x4	DRY	No.2	SPF
E - D	2x4	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	2.0	4.0		
E	BMV1+p	MT20	2.0	4.0		

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER**BEARINGS**

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT	VERT	HORZ	DOWN	HORZ
E	674	0	674	0
C	269	0	269	0
D	45	0	45	0

SEE MITEK STANDARD DETAIL MSD2015-H FOR CONNECTION TO JOINT(S) C, D

UNFACTORED REACTIONS

JT	1ST LCASE	MAX./MIN.	COMPONENT REACTIONS				
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
E	468	355 / 0	0 / 0	0 / 0	0 / 0	113 / 0	0 / 0
C	184	157 / 0	0 / 0	0 / 0	0 / 0	27 / 0	0 / 0
D	36	0 / 0	0 / 0	0 / 0	0 / 0	36 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) E

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

LOADING

TOTAL LOAD CASES: (4)

C H O R D S				W E B S			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX LC1 MAX	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)
FR-TO		FROM TO			FR-TO		
E-B	-610 / 0	0.0	0.0	0.13 (4)	7.81		
A-B	0 / 36	-119.4	-119.4	0.16 (1)	10.00		
B-C	-40 / 0	-119.4	-119.4	0.73 (1)	6.25		
E-D	0 / 0	-18.2	-18.2	0.13 (4)	10.00		

DESIGN CRITERIA**SPECIFIED LOADS:**

TOP CH.	LL	=	34.8	PSF
	DL	=	6.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.3	PSF
TOTAL LOAD	=	48.1	PSF	

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2015

THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018, NBC-2019AE
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

DESIGN ASSUMPTIONS

-OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55 % OF 48.1 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 34.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.20")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.20")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.03")

CSI: TC=0.73/0.97 (B-C:1), BC=0.13/0.97 (D-E:4), WB=0.00/0.97 (n/a:0), SSI=0.31/1.00 (B-C:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10
COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES

PLATE	GRIP(DRY) (PSI)	SHEAR (PLI)	SECTION (PLI)
	MAX	MIN	MAX
MT20	650	371	1747

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.34 (B) (INPUT = 0.90)
JSI METAL= 0.25 (B) (INPUT = 1.00)



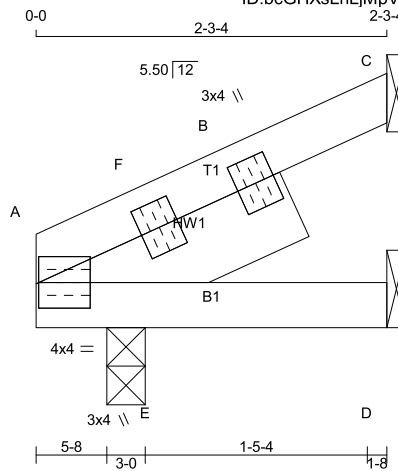
JULY 14, 2023

READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTES: TRUSSES. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.



JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
IM0723-091	TRUSS NAME	6	1	TRUSS DESC.	MHP 23030

PER: 
CHIEF BUILDING OFFICIAL



TOTAL WEIGHT = 6 X 9 = 52 lb

LUMBER

N. L. G. A. RULES				
CHORDS	SIZE	LUMBER	DESCR.	
A - C	2x4 DRY	No.2	SPF	
A - D	2x4 DRY	No.2	SPF	
REINFORCING MEMBERS				
HW1	2x6 DRY	No.2	SPF	
DRY: SEASONED LUMBER.				

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMBR1-I	MT20	4.0	4.0	2.00	
A	RT+t	MT20	3.0	4.0		
A	RT+t	MT20	3.0	4.0		

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER**BEARINGS**

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
	VERT	HORZ	DOWN	UP/LIFT
JT				
A	156	0	156	0
C	120	0	120	0
D	36	0	36	0

SEE MITEK STANDARD DETAIL MSD2015-H FOR CONNECTION TO JOINT(S) C , D

UNFACTORED REACTIONS

1ST LCASE	MAX./MIN. COMPONENT REACTIONS						
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
A	109	79 / 0	0 / 0	0 / 0	0 / 0	30 / 0	0 / 0
C	83	66 / 0	0 / 0	0 / 0	0 / 0	17 / 0	0 / 0
D	27	13 / 0	0 / 0	0 / 0	0 / 0	13 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) A

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

LOADING

TOTAL LOAD CASES: (4)

C H O R D S				W E B S			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)
FR-TO		FROM	TO		FR-TO		
A- F	-99 / 0	-119.4	-119.4	0.01 (1)	6.25	E- F	-180 / 0
F- B	-51 / 0	-119.4	-119.4	0.09 (1)	6.25	E- B	0 / 159
B- C	-51 / 0	-119.4	-119.4	0.09 (1)	6.25		0.02 (1)
A- E	0 / 80	-18.2	-18.2	0.06 (1)	10.00		
E- D	0 / 0	-18.2	-18.2	0.05 (1)	10.00		

DESIGN CRITERIA**SPECIFIED LOADS:**

TOP CH.	LL =	34.8 PSF
	DL =	6.0 PSF
BOT CH.	LL =	0.0 PSF
	DL =	7.3 PSF
TOTAL LOAD	=	48.1 PSF

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2015

THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018 , NBC-2019AE
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

(55 % OF 48.1 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 34.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.19")
CALCULATED VERT. DEFL.(LL)= L/ 999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.19")
CALCULATED VERT. DEFL.(TL)= L/ 999 (0.00")

CSI: TC=0.09/0.97 (C-F:1) , BC=0.06/0.97 (A-E:1) ,
WB=0.02/0.97 (B-E:1) , SSI=0.11/1.00 (C-F:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10
COMP=1.10 SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 1.00

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .

NAIL VALUES

PLATE	GRIP(DRY)	SHEAR	SECTION
(PSI)	(PLI)	(PLI)	(PLI)
MAX	MIN	MAX	MIN
MT20	650	371	1747
	788	1987	1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.17 (A) (INPUT = 0.90)
JSI METAL= 0.02 (A) (INPUT = 1.00)



JULY 14, 2023

READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTES: TRUSSES. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.



JOB NAME

IM0723-091

TRUSS NAME

T01

QUANTITY

1

PLY

1

JOB DESC.

TRUSS DESC.

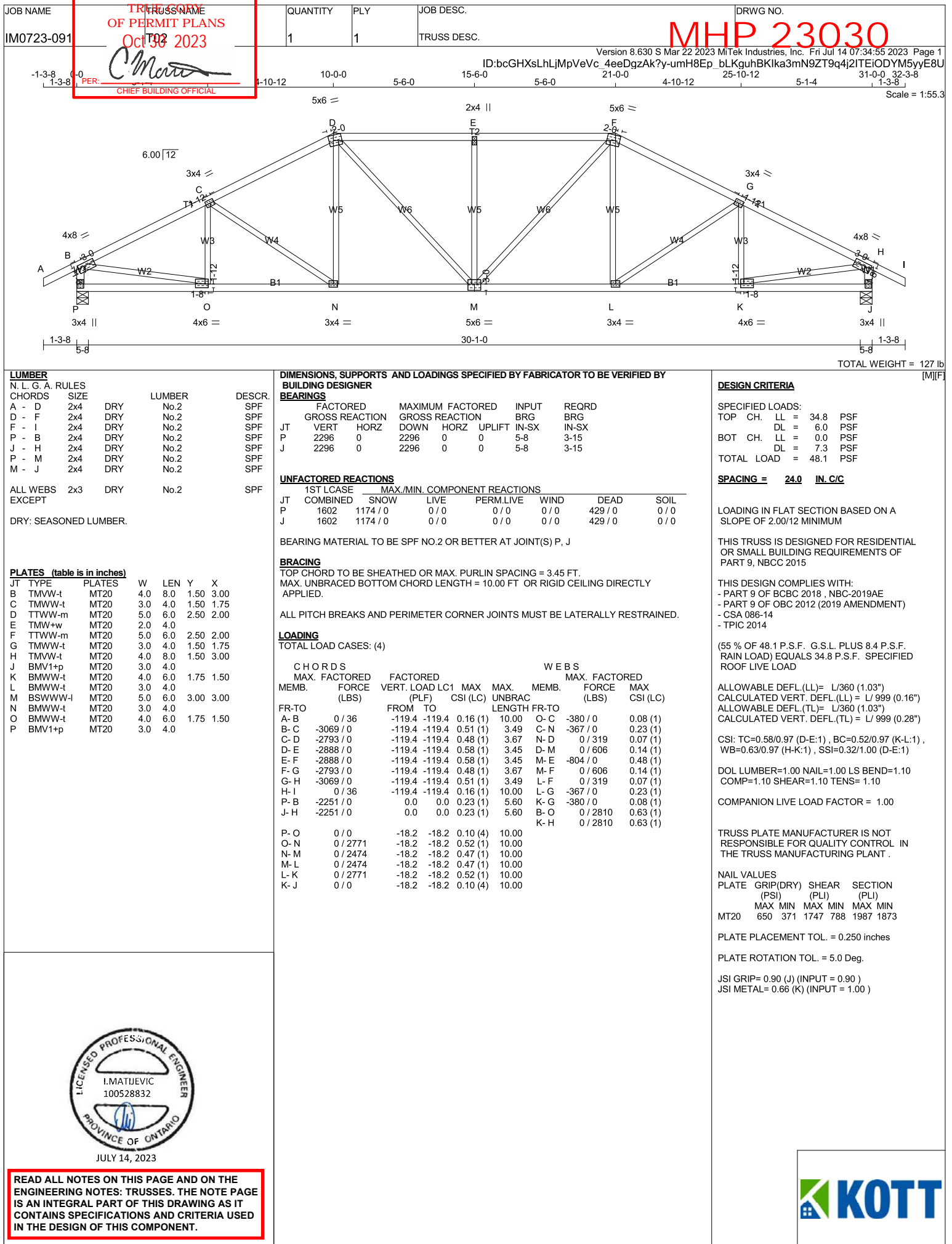
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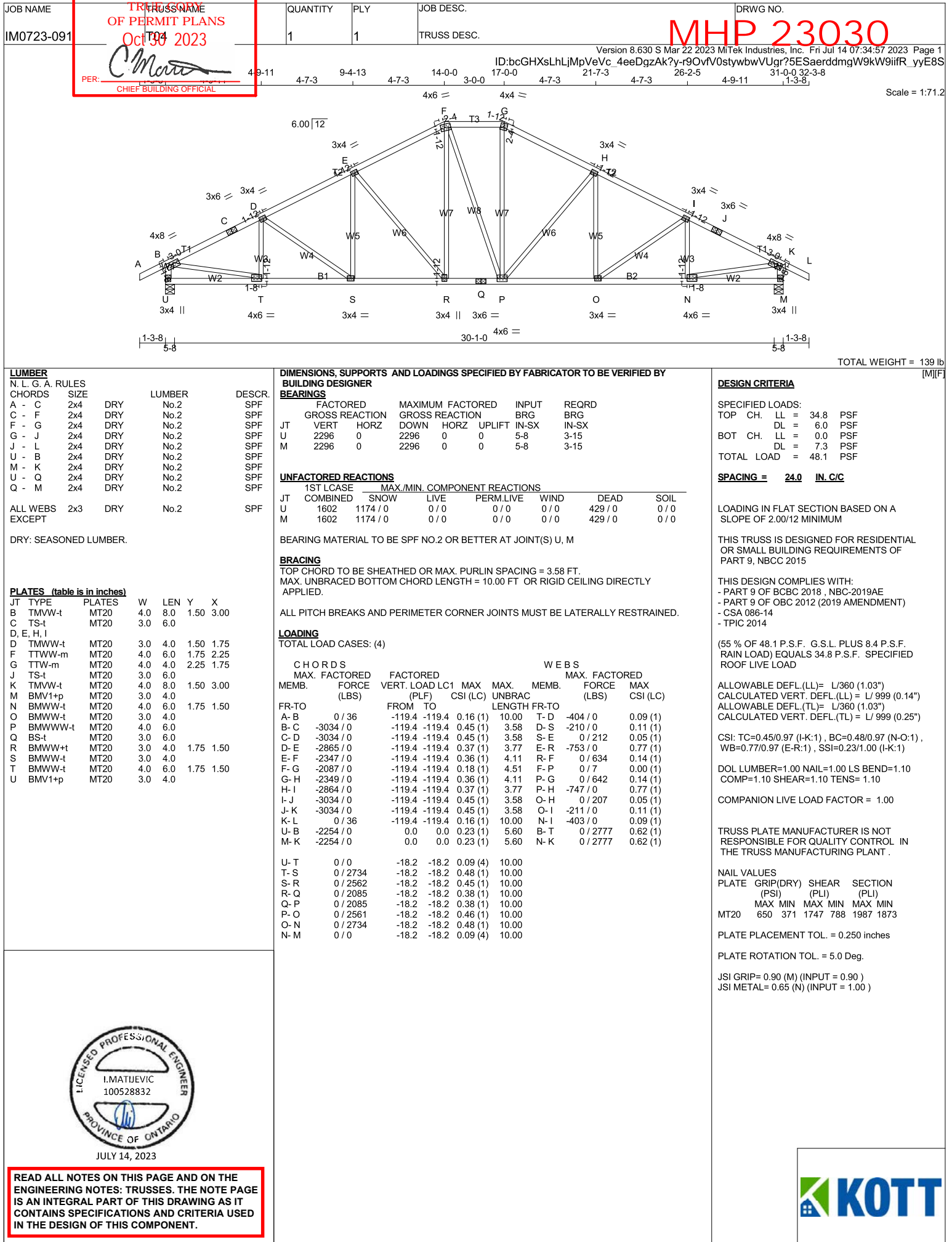
MHP 23030

Version 8.630 S Mar 22 2023 MiTek Industries, Inc. Fri Jul 14 07:34:54 2023 Page 1

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31-0-0 32-0-0 33-0-0 34-0-0 35-0-0 36-0-0 37-0-0 38-0-0 39-0-0 40-0-0 41-0-0 42-0-0 43-0-0 44-0-0 45-0-0 46-0-0 47-0-0 48-0-0 49-0-0 50-0-0 51-0-0 52-0-0 53-0-0 54-0-0 55-0-0 56-0-0 57-0-0 58-0-0 59-0-0 60-0-0 61-0-0 62-0-0 63-0-0 64-0-0 65-0-0 66-0-0 67-0-0 68-0-0 69-0-0 70-0-0 71-0-0 72-0-0 73-0-0 74-0-0 75-0-0 76-0-0 77-0-0 78-0-0 79-0-0 80-0-0 81-0-0 82-0-0 83-0-0 84-0-0 85-0-0 86-0-0 87-0-0 88-0-0 89-0-0 90-0-0 91-0-0 92-0-0 93-0-0 94-0-0 95-0-0 96-0-0 97-0-0 98-0-0 99-0-0 100-0-0 101-0-0 102-0-0 103-0-0 104-0-0 105-0-0 106-0-0 107-0-0 108-0-0 109-0-0 110-0-0 111-0-0 112-0-0 113-0-0 114-0-0 115-0-0 116-0-0 117-0-0 118-0-0 119-0-0 120-0-0 121-0-0 122-0-0 123-0-0 124-0-0 125-0-0 126-0-0 127-0-0 128-0-0 129-0-0 130-0-0 131-0-0 132-0-0 133-0-0 134-0-0 135-0-0 136-0-0 137-0-0 138-0-0 139-0-0 140-0-0 141-0-0 142-0-0 143-0-0 144-0-0 145-0-0 146-0-0 147-0-0 148-0-0 149-0-0 150-0-0 151-0-0 152-0-0 153-0-0 154-0-0 155-0-0 156-0-0 157-0-0 158-0-0 159-0-0 160-0-0 161-0-0 162-0-0 163-0-0 164-0-0 165-0-0 166-0-0 167-0-0 168-0-0 169-0-0 170-0-0 171-0-0 172-0-0 173-0-0 174-0-0 175-0-0 176-0-0 177-0-0 178-0-0 179-0-0 180-0-0 181-0-0 182-0-0 183-0-0 184-0-0 185-0-0 186-0-0 187-0-0 188-0-0 189-0-0 190-0-0 191-0-0 192-0-0 193-0-0 194-0-0 195-0-0 196-0-0 197-0-0 198-0-0 199-0-0 200-0-0 201-0-0 202-0-0 203-0-0 204-0-0 205-0-0 206-0-0 207-0-0 208-0-0 209-0-0 210-0-0 211-0-0 212-0-0 213-0-0 214-0-0 215-0-0 216-0-0 217-0-0 218-0-0 219-0-0 220-0-0 221-0-0 222-0-0 223-0-0 224-0-0 225-0-0 226-0-0 227-0-0 228-0-0 229-0-0 230-0-0 231-0-0 232-0-0 233-0-0 234-0-0 235-0-0 236-0-0 237-0-0 238-0-0 239-0-0 240-0-0 241-0-0 242-0-0 243-0-0 244-0-0 245-0-0 246-0-0 247-0-0 248-0-0 249-0-0 250-0-0 251-0-0 252-0-0 253-0-0 254-0-0 255-0-0 256-0-0 257-0-0 258-0-0 259-0-0 260-0-0 261-0-0 262-0-0 263-0-0 264-0-0 265-0-0 266-0-0 267-0-0 268-0-0 269-0-0 270-0-0 271-0-0 272-0-0 273-0-0 274-0-0 275-0-0 276-0-0 277-0-0 278-0-0 279-0-0 280-0-0 281-0-0 282-0-0 283-0-0 284-0-0 285-0-0 286-0-0 287-0-0 288-0-0 289-0-0 290-0-0 291-0-0 292-0-0 293-0-0 294-0-0 295-0-0 296-0-0 297-0-0 298-0-0 299-0-0 300-0-0 301-0-0 302-0-0 303-0-0 304-0-0 305-0-0 306-0-0 307-0-0 308-0-0 309-0-0 310-0-0 311-0-0 312-0-0 313-0-0 314-0-0 315-0-0 316-0-0 317-0-0 318-0-0 319-0-0 320-0-0 321-0-0 322-0-0 323-0-0 324-0-0 325-0-0 326-0-0 327-0-0 328-0-0 329-0-0 330-0-0 331-0-0 332-0-0 333-0-0 334-0-0 335-0-0 336-0-0 337-0-0 338-0-0 339-0-0 340-0-0 341-0-0 342-0-0 343-0-0 344-0-0 345-0-0 346-0-0 347-0-0 348-0-0 349-0-0 350-0-0 351-0-0 352-0-0 353-0-0 354-0-0 355-0-0 356-0-0 357-0-0 358-0-0 359-0-0 360-0-0 361-0-0 362-0-0 363-0-0 364-0-0 365-0-0 366-0-0 367-0-0 368-0-0 369-0-0 370-0-0 371-0-0 372-0-0 373-0-0 374-0-0 375-0-0 376-0-0 377-0-0 378-0-0 379-0-0 380-0-0 381-0-0 382-0-0 383-0-0 384-0-0 385-0-0 386-0-0 387-0-0 388-0-0 389-0-0 390-0-0 391-0-0 392-0-0 393-0-0 394-0-0 395-0-0 396-0-0 397-0-0 398-0-0 399-0-0 400-0-0 401-0-0 402-0-0 403-0-0 404-0-0 405-0-0 406-0-0 407-0-0 408-0-0 409-0-0 410-0-0 411-0-0 412-0-0 413-0-0 414-0-0 415-0-0 416-0-0 417-0-0 418-0-0 419-0-0 420-0-0 421-0-0 422-0-0 423-0-0 424-0-0 425-0-0 426-0-0 427-0-0 428-0-0 429-0-0 430-0-0 431-0-0 432-0-0 433-0-0 434-0-0 435-0-0 436-0-0 437-0-0 438-0-0 439-0-0 440-0-0 441-0-0 442-0-0 443-0-0 444-0-0 445-0-0 446-0-0 447-0-0 448-0-0 449-0-0 450-0-0 451-0-0 452-0-0 453-0-0 454-0-0 455-0-0 456-0-0 457-0-0 458-0-0 459-0-0 460-0-0 461-0-0 462-0-0 463-0-0 464-0-0 465-0-0 466-0-0 467-0-0 468-0-0 469-0-0 470-0-0 471-0-0 472-0-0 473-0-0 474-0-0 475-0-0 476-0-0 477-0-0 478-0-0 479-0-0 480-0-0 481-0-0 482-0-0 483-0-0 484-0-0 485-0-0 486-0-0 487-0-0 488-0-0 489-0-0 490-0-0 491-0-0 492-0-0 493-0-0 494-0-0 495-0-0 496-0-0 497-0-0 498-0-0 499-0-0 500-0-0 501-0-0 502-0-0 503-0-0 504-0-0 505-0-0 506-0-0 507-0-0 508-0-0 509-0-0 510-0-0 511-0-0 512-0-0 513-0-0 514-0-0 515-0-0 516-0-0 517-0-0 518-0-0



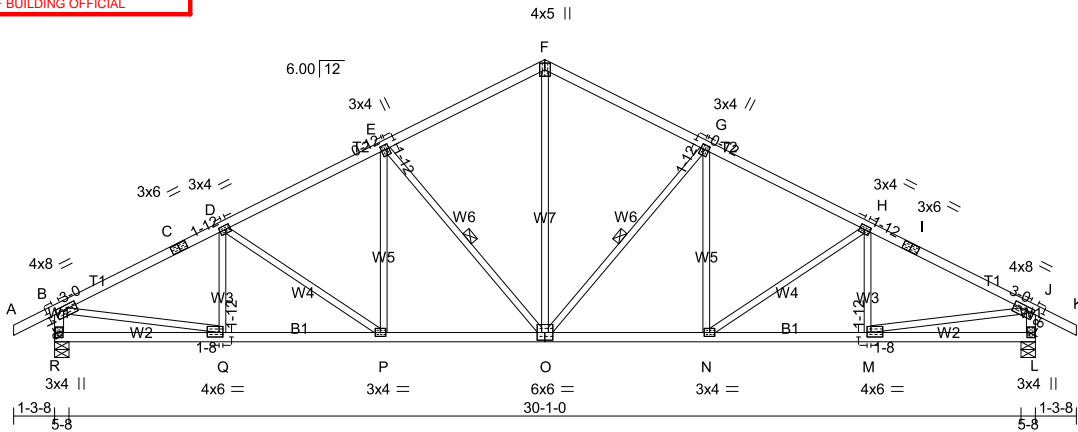


JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
IM0723-091	TRUSS NAME OF PERMIT PLANS Oct 30 2023	8	1	TRUSS DESC.	MHP 23030

PER: 
CHIEF BUILDING OFFICIAL

5-3-11 5-1-3 10-4-13 5-1-3 15-6-0 5-1-3 20-7-3 5-1-3 25-8-5 5-3-11 31-0-0 32-3-8 1-3-8

Scale = 1:72.8



TOTAL WEIGHT = 8 X 132 = 1053 lb

LUMBER

N. L. G. A. RULES

CHORDS SIZE

A - C 2x4 DRY

C - F 2x4 DRY

F - I 2x4 DRY

I - K 2x4 DRY

R - B 2x4 DRY

L - J 2x4 DRY

R - O 2x4 DRY

O - L 2x4 DRY

LUMBER

No.2

No.2

No.2

No.2

No.2

No.2

No.2

No.2

DESCR.

SPF

SPF

SPF

SPF

SPF

SPF

SPF

SPF

ALL WEBS 2x3 DRY

EXCEPT

DRY: SEASONED LUMBER.

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY**BUILDING DESIGNER****BEARINGS**

	FACTORED	MAXIMUM FACTORED	INPUT	REQRD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT VERT	HORZ	DOWN	HORZ	UPLIFT
R	2296	0	2296	0
L	2296	0	2296	0

UNFACTORED REACTIONS

	1ST LCASE	MAX./MIN.	COMPONENT REACTIONS				
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
R	1602	1174 / 0	0 / 0	0 / 0	0 / 0	429 / 0	0 / 0
L	1602	1174 / 0	0 / 0	0 / 0	0 / 0	429 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) R, L

BRACINGTOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.45 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

1 - 1x4 LATERAL BRACE(S) AT 1/2 LENGTH OF G-O, E-O. DBS = 20-0-0. CBF = 110 LBS.

DBS = DIAGONAL BRACE SPACING (MAX). CBF = CUMULATIVE BRACING FORCE (PER BRACE). FASTEN LATERAL BRACE(S) USING (0.122"x3") SPIRAL NAILS: 1 NAIL FOR 2x3 BRACE(S), 2 FOR 1x4, 2x4, 2x5, 3 FOR 2x6, 4 FOR 2x8, 5 FOR 2x10, AND 6 FOR 2x12.

END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS					
MAX. FACTORED		FACTORED		MAX. FACTORED					
MEMB.	FORCE	VERT. LOAD	LC1	MAX	MAX.	MEMB.	MAX. FORCE	FACTORED	
	(LBS)	(PLF)		CSI (LC)	UNBRAC		(LBS)	MAX	
FR-TO		FROM	TO		LENGTH	FR-TO		CSI (LC)	
A-B	0 / 36	-119.4	-119.4	0.16	(1)	10.00	O-F	0 / 1428	0.32 (1)
B-C	-3065 / 0	-119.4	-119.4	0.55	(1)	3.45	O-G	-882 / 0	0.37 (1)
C-D	-3065 / 0	-119.4	-119.4	0.55	(1)	3.45	N-G	0 / 294	0.07 (1)
D-E	-2784 / 0	-119.4	-119.4	0.45	(1)	3.74	N-H	-334 / 0	0.23 (1)
E-F	-2174 / 0	-119.4	-119.4	0.42	(1)	4.16	M-H	-352 / 0	0.08 (1)
F-G	-2174 / 0	-119.4	-119.4	0.42	(1)	4.16	E-O	-882 / 0	0.37 (1)
G-H	-2784 / 0	-119.4	-119.4	0.45	(1)	3.74	P-E	0 / 294	0.07 (1)
H-I	-3065 / 0	-119.4	-119.4	0.55	(1)	3.45	D-P	-334 / 0	0.23 (1)
I-J	-3065 / 0	-119.4	-119.4	0.55	(1)	3.45	Q-D	-352 / 0	0.08 (1)
J-K	0 / 36	-119.4	-119.4	0.16	(1)	10.00	B-Q	0 / 2800	0.63 (1)
R-B	-2251 / 0	0.0	0.0	0.23	(1)	5.60	M-J	0 / 2800	0.63 (1)
L-J	-2251 / 0	0.0	0.0	0.23	(1)	5.60			
R-Q	0 / 0	-18.2	-18.2	0.10	(4)	10.00			
Q-P	0 / 2764	-18.2	-18.2	0.50	(1)	10.00			
P-O	0 / 2489	-18.2	-18.2	0.46	(1)	10.00			
O-N	0 / 2489	-18.2	-18.2	0.46	(1)	10.00			
N-M	0 / 2764	-18.2	-18.2	0.50	(1)	10.00			
M-L	0 / 0	-18.2	-18.2	0.10	(4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 34.8 PSF

DL = 6.0 PSF

BOT CH. LL = 0.0 PSF

DL = 7.3 PSF

TOTAL LOAD = 48.1 PSF

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2015

THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018, NBC-2019AE
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

(55% OF 48.1 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 34.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.03")
CALCULATED VERT. DEFL.(LL) = L/999 (0.15")
ALLOWABLE DEFL.(TL) = L/360 (1.03")
CALCULATED VERT. DEFL.(TL) = L/999 (0.27")

CSI: TC=0.55/0.97 (H-J:1), BC=0.50/0.97 (M-N:1), WB=0.63/0.97 (J-M:1), SSI=0.26/1.00 (H-J:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10
COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUESPLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 650 371 1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (L) (INPUT = 0.90)
JSI METAL= 0.66 (Q) (INPUT = 1.00)

JULY 14, 2023

READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTES: TRUSSES. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.



JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
IM0723-091	TRUSS NAME Oct 30 2023 PER: <i>C. Matijevic</i> CHIEF BUILDING OFFICIAL	1	1	TRUSS DESC.	MHP 23030

Version 8.630 S Mar 22 2023 MiTek Industries, Inc. Fri Jul 14 07:34:59 2023 Page 1
ID:bcGHXsLhLjMpVeVc_4eeDgzAk?y-nXWf4B16PZAJ9pe3zQ7iX?kCORRX_8Kpd0BmVsyyE8Q

Scale = 1:78.2

TOTAL WEIGHT = 84 lb [M][F]

LUMBER				DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER				DESIGN CRITERIA						
N. L. G. A. RULES				BEARINGS				SPECIFIED LOADS:						
CHORDS	SIZE	LUMBER	DESCR.	FACTORED	MAXIMUM FACTORED	INPUT	REQRD	TOP CH. LL = 34.8 PSF						
A - C	2x4	DRY	No.2	GROSS REACTION	GROSS REACTION	BRG	BRG	DL = 6.0 PSF						
C - F	2x4	DRY	No.2	JT VERT	DOWN	HORZ	UPLIFT	BOT CH. LL = 0.0 PSF						
J - A	2x4	DRY	No.2	G 1462	0	1462	0	DL = 7.3 PSF						
G - E	2x4	DRY	No.2	J 1296	0	1296	0	TOTAL LOAD = 48.1 PSF						
J - H	2x4	DRY	No.2					SPACING = 24.0 IN. C/C						
H - G	2x4	DRY	No.2					THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2015						
ALL WEBS	2x3	DRY	No.2	UNFACTORED REACTIONS				THIS DESIGN COMPLIES WITH:						
EXCEPT			SPF	1ST LCASE	MAX./MIN. COMPONENT REACTIONS			- PART 9 OF CBC 2018, NBC-2019AE						
				JT COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL	- PART 9 OF OBC 2012 (2019 AMENDMENT)			
				G 1019	752 / 0	0 / 0	0 / 0	0 / 0	267 / 0	0 / 0	- CSA 086-14			
				J 906	656 / 0	0 / 0	0 / 0	0 / 0	250 / 0	0 / 0	- TPIC 2014			
DRY: SEASONED LUMBER.				BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) G, J				(55 % OF 48.1 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 34.8 P.S.F. SPECIFIED ROOF LIVE LOAD ALLOWABLE DEFL.(LL)= L/360 (0.63") CALCULATED VERT. DEFL.(LL) = L/ 999 (0.03") ALLOWABLE DEFL.(TL)= L/360 (0.63") CALCULATED VERT. DEFL.(TL) = L/ 999 (0.18")						
PLATES (table is in inches)				BRACING				CSI: TC=0.44/0.97 (D-E:1), BC=0.52/0.97 (G-I:4), WB=0.45/0.97 (D-G:1), SSI=0.21/1.00 (C-D:1)						
JT	TYPE	PLATES	W	LEN	Y	X	TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.90 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.				DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10			
A	TMV+p	MT20	2.0	4.0			ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.				COMPANION LIVE LOAD FACTOR = 1.00			
B	TMWW-t	MT20	4.0	4.0	1.75	1.50	1 - 1x4 LATERAL BRACE(S) AT 1/2 LENGTH OF D-G, B-J. DBS = 20-0-0. CBF = 171 LBS.				TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.			
C	TTW+p	MT20	3.0	5.0			DBS = DIAGONAL BRACE SPACING (MAX). CBF = CUMULATIVE BRACING FORCE (PER BRACE). FASTEN LATERAL BRACE(S) USING (0.122"x3") SPIRAL NAILS: 1 NAIL FOR 2x3 BRACE(S), 2 FOR 1x4, 2x4, 2x5, 3 FOR 2x6, 4 FOR 2x8, 5 FOR 2x10, AND 6 FOR 2x12.				NAIL VALUES			
D	TMWW-t	MT20	4.0	4.0	1.75	1.50	END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW				PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)			
E	TMV+p	MT20	2.0	4.0			LOADING				MAX MIN MAX MIN MAX MIN			
G	BMVW1-t	MT20	4.0	4.0	1.75	2.00	TOTAL LOAD CASES: (4)				MT20 650 371 1747 788 1987 1873			
H	BS-t	MT20	3.0	4.0			CHORDS				PLATE PLACEMENT TOL. = 0.250 inches			
I	BMVWW-t	MT20	4.0	6.0			MEMB. MAX. FACTORED FORCE (LBS)				PLATE ROTATION TOL. = 5.0 Deg.			
J	BMVW1-t	MT20	4.0	4.0	1.75	2.00	W E B S				JSI GRIP= 0.90 (J) (INPUT = 0.90)			
							MEMB. MAX. FACTORED FORCE (LBS)				JSI METAL= 0.46 (B) (INPUT = 1.00)			
							FR-TO							
							A-B 0 / 43							
							B-C -938 / 0							
							C-D -938 / 0							
							D-E 0 / 43							
							E-F 0 / 53							
							J-A -212 / 0							
							G-E -378 / 0							
							J-I 0 / 916							
							I-H 0 / 916							
							H-G 0 / 916							

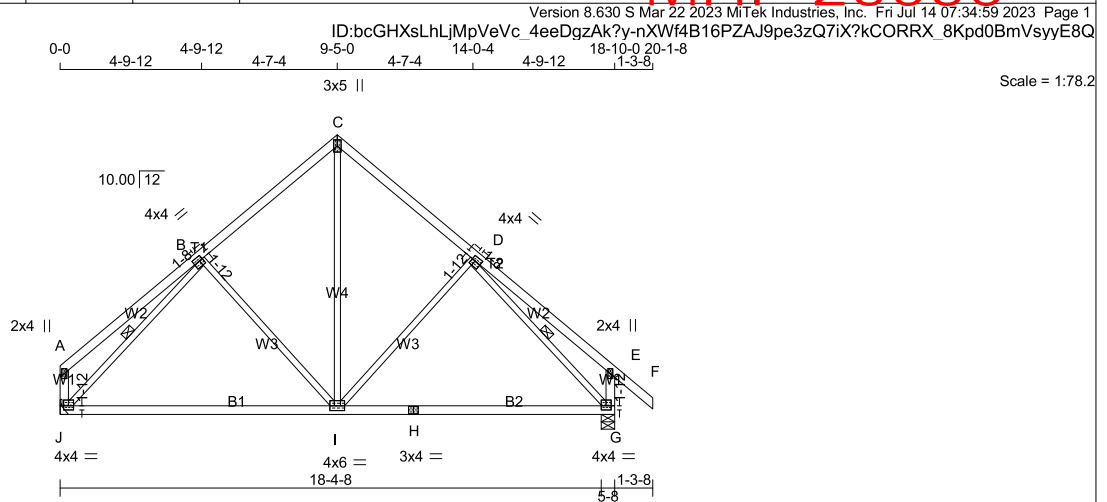
READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTES: TRUSSES. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.

PROVINCE OF ONTARIO
I. MATIJEVIC
100528832
JULY 14, 2023

KOTT

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
IM0723-091	TRUSS NAME Oct 30 2023	5	1	TRUSS DESC.	MHP 23030

PER: 
CHIEF BUILDING OFFICIAL



TOTAL WEIGHT = 5 X 84 = 418 lb

LUMBER

N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
A - C	2x4	DRY	No.2	SPF
C - F	2x4	DRY	No.2	SPF
J - A	2x4	DRY	No.2	SPF
G - E	2x4	DRY	No.2	SPF
J - H	2x4	DRY	No.2	SPF
H - G	2x4	DRY	No.2	SPF
ALL WEBS	2x3	DRY	No.2	SPF
EXCEPT				

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMV+p	MT20	2.0	4.0		
B	TMWW-t	MT20	4.0	4.0	1.75	1.50
C	TTW+p	MT20	3.0	5.0		
D	TMWW-t	MT20	4.0	4.0	1.75	1.50
E	TMV+p	MT20	2.0	4.0		
G	BMVW1-t	MT20	4.0	4.0	1.75	2.00
H	BS-t	MT20	3.0	4.0		
I	BMVWW-t	MT20	4.0	6.0		
J	BMVW1-t	MT20	4.0	4.0	1.75	2.00

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER**BEARINGS**

	FACTORED	MAXIMUM FACTORED	INPUT	REQRD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	HORZ	DOWN	UPLIFT
J	1296	0	1296	0
G	1462	0	1462	0

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT J. MINIMUM BEARING LENGTH AT JOINT J = 1-8.

UNFACTORED REACTIONS

JT	1ST LCASE	MAX./MIN.	COMPONENT REACTIONS				
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
J	906	656 / 0	0 / 0	0 / 0	0 / 0	250 / 0	0 / 0
G	1019	752 / 0	0 / 0	0 / 0	0 / 0	267 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) G

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.90 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

1 - 1x4 LATERAL BRACE(S) AT 1/2 LENGTH OF B-J, D-G. DBS = 20-0-0. CBF = 171 LBS.

DBS = DIAGONAL BRACE SPACING (MAX). CBF = CUMULATIVE BRACING FORCE (PER BRACE). FASTEN LATERAL BRACE(S) USING (0.122"x3") SPIRAL NAILS: 1 NAIL FOR 2x3 BRACE(S), 2 FOR 1x4, 2x4, 2x5, 3 FOR 2x6, 4 FOR 2x8, 5 FOR 2x10, AND 6 FOR 2x12.

END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW

LOADING

TOTAL LOAD CASES: (4)

C H O R D S				W E B S			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)	
FR-TO		FROM TO	LENGTH	FR-TO			
A-B	0 / 43	-119.4 -119.4	0.44 (1)	10.00	I-C	0 / 714	0.16 (1)
B-C	-938 / 0	-119.4 -119.4	0.35 (1)	5.90	I-D	-339 / 0	0.32 (1)
C-D	-938 / 0	-119.4 -119.4	0.35 (1)	5.90	B-I	-339 / 0	0.32 (1)
D-E	0 / 43	-119.4 -119.4	0.44 (1)	10.00	J-B	-1370 / 0	0.45 (1)
E-F	0 / 53	-119.4 -119.4	0.16 (1)	10.00	D-G	-1370 / 0	0.45 (1)
J-A	-212 / 0	0.0	0.02 (1)	7.81			
G-E	-378 / 0	0.0	0.04 (1)	7.81			
J-I	0 / 916	-18.2 -18.2	0.52 (4)	10.00			
I-H	0 / 916	-18.2 -18.2	0.52 (4)	10.00			
H-G	0 / 916	-18.2 -18.2	0.52 (4)	10.00			

DESIGN CRITERIA**SPECIFIED LOADS:**

TOP CH.	LL	=	34.8	PSF
	DL	=	6.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.3	PSF
TOTAL LOAD	=	48.1	PSF	

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2015

THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018, NBC-2019AE
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

(55 % OF 48.1 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 34.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.63")
CALCULATED VERT. DEFL.(LL) = L/999 (0.03")
ALLOWABLE DEFL.(TL) = L/360 (0.63")
CALCULATED VERT. DEFL.(TL) = L/999 (0.18")

CSI: TC=0.44/0.97 (D-E:1), BC=0.52/0.97 (G-I:4),
WB=0.45/0.97 (D-G:1), SSI=0.21/1.00 (C-D:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10
COMP=1.10 SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 1.00

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES

PLATE	GRIP(DRY)	SHEAR	SECTION
	(PSI)	(PLI)	(PLI)
MT20	650	371	1747
	788	1987	1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

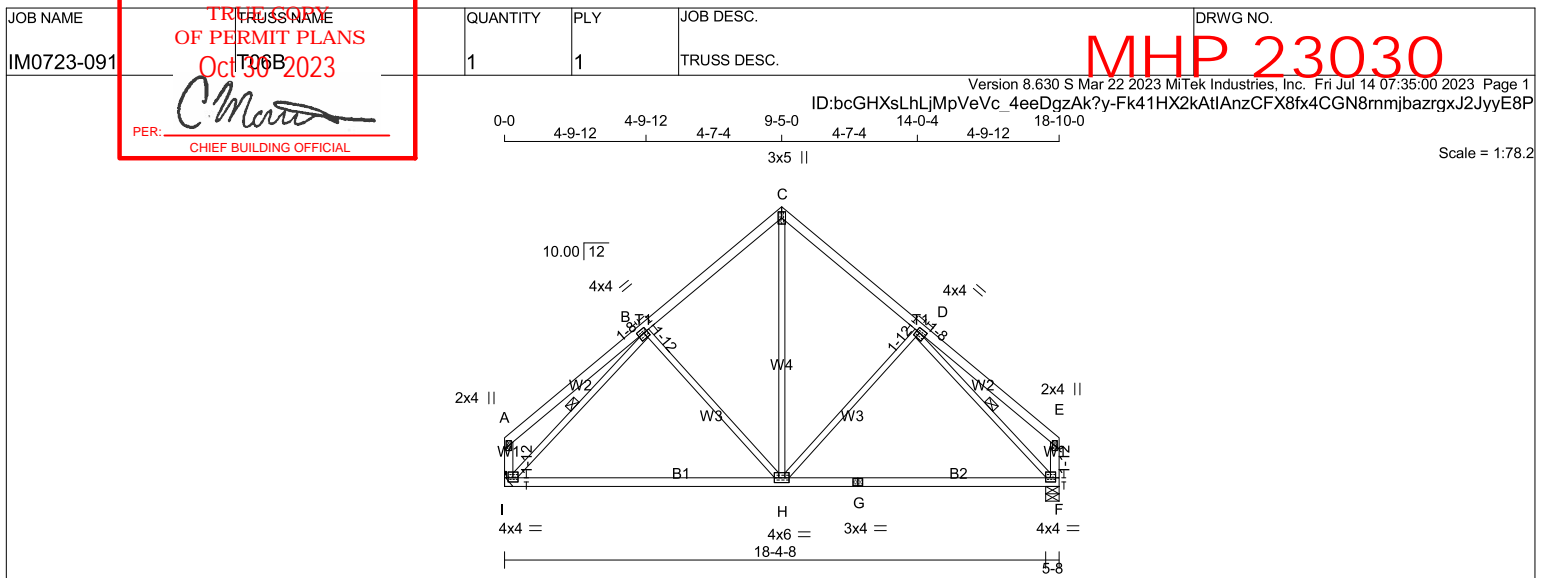
JSI GRIP= 0.90 (J) (INPUT = 0.90)
JSI METAL= 0.46 (B) (INPUT = 1.00)



JULY 14, 2023

READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTES: TRUSSES. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.





LUMBER					
N. L. G. A. RULES					
CHORDS		SIZE	LUMBER		DESCR.
A	- C	2x4	DRY	No.2	SPF
C	- E	2x4	DRY	No.2	SPF
I	- A	2x4	DRY	No.2	SPF
F	- E	2x4	DRY	No.2	SPF
I	- G	2x4	DRY	No.2	SPF
G	- F	2x4	DRY	No.2	SPF
ALL WEBS		2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMV+p	MT20	2.0	4.0		
B	MTMW-t	MT20	4.0	4.0	1.75	1.50
C	TTV+p	MT20	3.0	5.0		
D	MTMW-t	MT20	4.0	4.0	1.75	1.50
E	TMV+p	MT20	2.0	4.0		
F	BMVW1-t	MT20	4.0	4.0	1.75	2.00
G	BS-t	MT20	3.0	4.0		
H	BMVWW-t	MT20	4.0	6.0		
I	BMVW1-t	MT20	4.0	4.0	1.75	2.00

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION			INPUT BRG	REQRD BRG
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX MECHANICAL	IN-SX
I	1296	0	1296	0	0		
F	1296	0	1296	0	0	5-8	1-8

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT I. MINIMUM BEARING LENGTH AT JOINT I = 1-8.

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
I	906	656 / 0	0 / 0	0 / 0	0 / 0	250 / 0	0 / 0
F	906	656 / 0	0 / 0	0 / 0	0 / 0	250 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) F

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.90 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY
APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.

1 - 1x4 LATERAL BRACE(S) AT 1/ 2 LENGTH OF B-I, D-F. DBS = 20-0-0 . CBF = 171 LBS.

DBS = DIAGONAL BRACE SPACING (MAX). CBF = CUMULATIVE BRACING FORCE (PER BRACE). FASTEN LATERAL BRACE(S) USING (0.122"X3") SPIRAL NAILS : 1 NAIL FOR 2x3 BRACE(S), 2 FOR 1x4, 2x4, 2x5, 3 FOR 2x6, 4 FOR 2x8, 5 FOR 2x10, AND 6 FOR 2x12.

END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW

LOADING

TOTAL LOAD CASES: (4)

CHORDS					WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1	MAX CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)	
FR-TO		FROM	TO			FR-TO			
A-B	0 / 43	-119.4	-119.4	0.44 (1)	10.00	H-C	0 / 714	0.16 (1)	
B-C	-938 / 0	-119.4	-119.4	0.35 (1)	5.90	H-D	-339 / 0	0.32 (1)	
C-D	-938 / 0	-119.4	-119.4	0.35 (1)	5.90	B-H	-339 / 0	0.32 (1)	
D-E	0 / 43	-119.4	-119.4	0.44 (1)	10.00	I-B	-1370 / 0	0.45 (1)	
I-A	-212 / 0	0.0	0.0	0.02 (1)	7.81	D-F	-1370 / 0	0.45 (1)	
F-E	-212 / 0	0.0	0.0	0.02 (1)	7.81				
I-H	0 / 916	-18.2	-18.2	0.52 (4)	10.00				
H-G	0 / 916	-18.2	-18.2	0.52 (4)	10.00				
G-F	0 / 916	-18.2	-18.2	0.52 (4)	10.00				

DESIGN CRITERIA

SPECIFIED LOADS:

TOP	CH.	LL =	34.8	PSF
		DL =	6.0	PSF
BOT	CH.	LL =	0.0	PSF
		DL =	7.3	PSF
TOTAL LOAD		=	48.1	PSF

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL
OR SMALL BUILDING REQUIREMENTS OF
PART 9, NBCC 2015

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CALCULATED VERT. DEFL.(LL) = L/ 999 (0.03")
ALLOWABLE DEFL.(TL)= L/360 (0.63")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.18")

CSI: TC=0.44/0.97 (D-E:1) , BC=0.52/0.97 (F-H:4) ,
WB=0.45/0.97 (D-F:1) , SSI=0.21/1.00 (C-D:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10
COMP=1.10 SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 1.00

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .

NAIL VALUES

PLATE	GRIP(DRY) (PSI)		SHEAR (PLI)		SECTION (PLI)	
	MAX	MIN	MAX	MIN	MAX	MIN
MT20	650	371	1747	788	1987	1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (F) (INPUT = 0.90)
JSI METAL= 0.46 (B) (INPUT = 1.00)



JULY 14, 2023

**READ ALL NOTES ON THIS PAGE AND ON THE
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