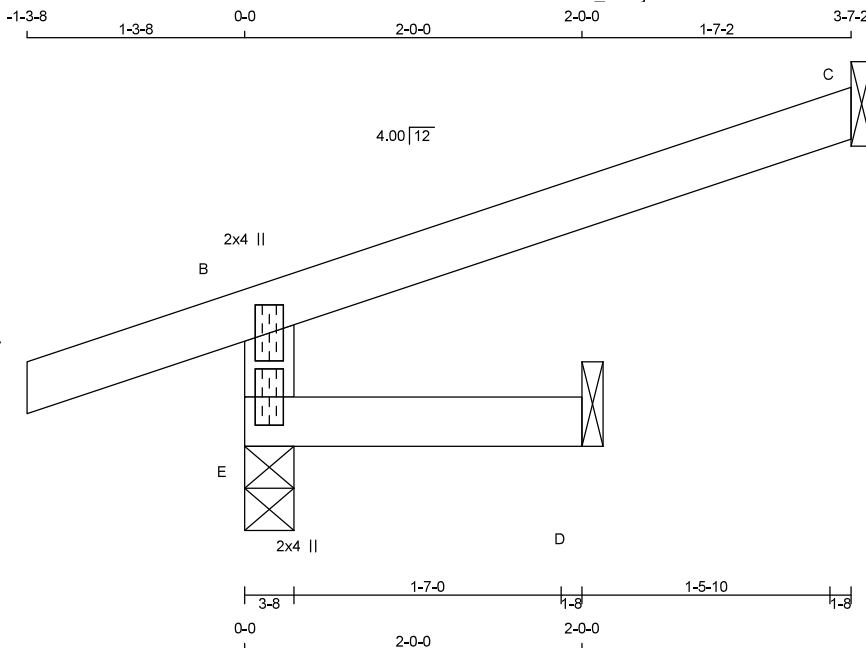


PER: *C. Marra*
CHIEF BUILDING OFFICIAL



Scale = 1:13.7

TOTAL WEIGHT = 2 X 9 = 18 lb

LUMBER

N. L. G. A. RULES

CHORDS	SIZE	LUMBER
E - B	2x4	DRY No.2
A - C	2x4	DRY No.2
E - D	2x4	DRY No.2

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

JT	VERT	HORZ	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
E	449	0	449	0	3-8	1-8
C	161	0	161	0	1-8	1-8
D	16	0	16	0	1-8	1-8

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

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
E	309	250 / 0	0 / 0	0 / 0	0 / 0	59 / 0	0 / 0
C	110	94 / 0	0 / 0	0 / 0	0 / 0	16 / 0	0 / 0
D	13	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)

MEMB.	MAX. FACTORED FORCE (LBS)	CHORDS				WEBS			
		VERT. LOAD (LBS)	LC1 (PLF)	MAX. CSI (LC)	UNBRAC. LENGTH FR-TO	MEMB. FORCE (LBS)	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)	
FR-TO	-428 / 0	0.0	0.0	0.01 (4)	7.81				
E-B	0 / 25	-119.4	-119.4	0.15 (1)	10.00				
A-B	-17 / 0	-119.4	-119.4	0.26 (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=0.26/0.97 (B-C-1) , BC=0.02/0.97 (D-E-4) ,
WB=0.00/0.97 (na:0) , SSI=0.20/1.00 (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) SHEAR SECTION (PSI) (PL) (PL)
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= 0.23 (B) (INPUT = 0.90)
JSI METAL= 0.13 (B) (INPUT = 1.00)



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.

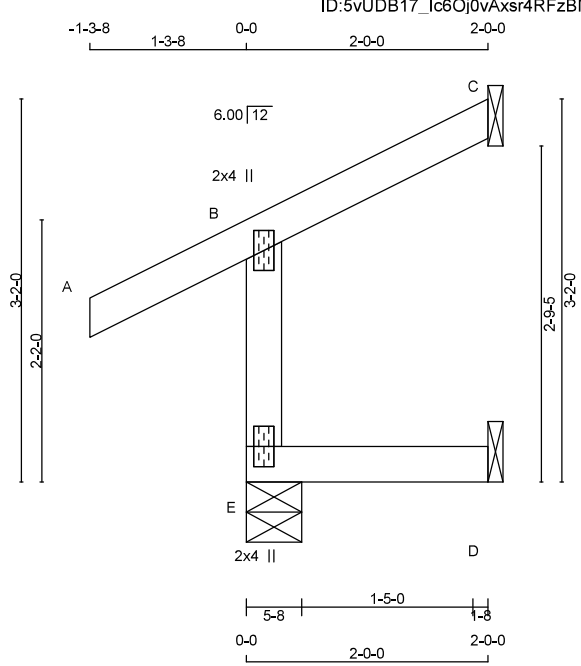


CORPORATION OF THE CITY OF QSHAWA
 JOB NAME: TRUE COPY TRUSS NAME: J19

NE0723-039
 Oct 31 2023
 PER: *C. Masri*
 CHIEF BUILDING OFFICIAL

QUANTITY: 3 PLY: TRUSS DESC.: ID:5VUDB17_Ic6Oj0vAxsr4RFzBM45-ZOMGLqD8GAU_8kHFRyV9kh4IsYNwim703O4nFYz_QtO

Version 8.630 S Mar 22 2023 MiTek Industries, Inc. Fri Jul 7 15:27:33 2023 Page 1



Scale = 1:19.1

TOTAL WEIGHT = 3 X 9 = 26 lb

LUMBER

N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
E - B	2x4	DRY	No.2
A - C	2x4	DRY	No.2
E - D	2x4	DRY	No.2

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

JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
E	329	0	329	0	0	5-8	1-8
C	91	0	91	0	0	1-8	1-8
D	17	0	19	0	0	1-8	1-8

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

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
E	227	181 / 0	0 / 0	0 / 0	0 / 0	47 / 0	0 / 0
C	62	53 / 0	0 / 0	0 / 0	0 / 0	9 / 0	0 / 0
D	14	0 / 0	0 / 0	0 / 0	0 / 0	14 / 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)

MEMB.	MAX. FACTORED FORCE (LBS)	CHORDS				WEBS			
		MAX. FACTORED VERT. (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX. (LC)	MAX. UNBRACED LENGTH (FT)	MEMB. FORCE (LBS)	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (FT)	
FR-TO	-310 / 0	0.0	0.0	0.01 (4)	7.81				
E-B	0 / 36	-119.4	-119.4	0.16 (1)	10.00				
A-B	-13 / 0	-119.4	-119.4	0.08 (1)	6.25				
B-C									
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) (PL) (PL)
 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= 0.17 (B) (INPUT = 0.90)
 JSI METAL= 0.13 (B) (INPUT = 1.00)



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.



CORPORATION OF THE CITY OF OSHAWA
 JOB NAME TRUSS NAME

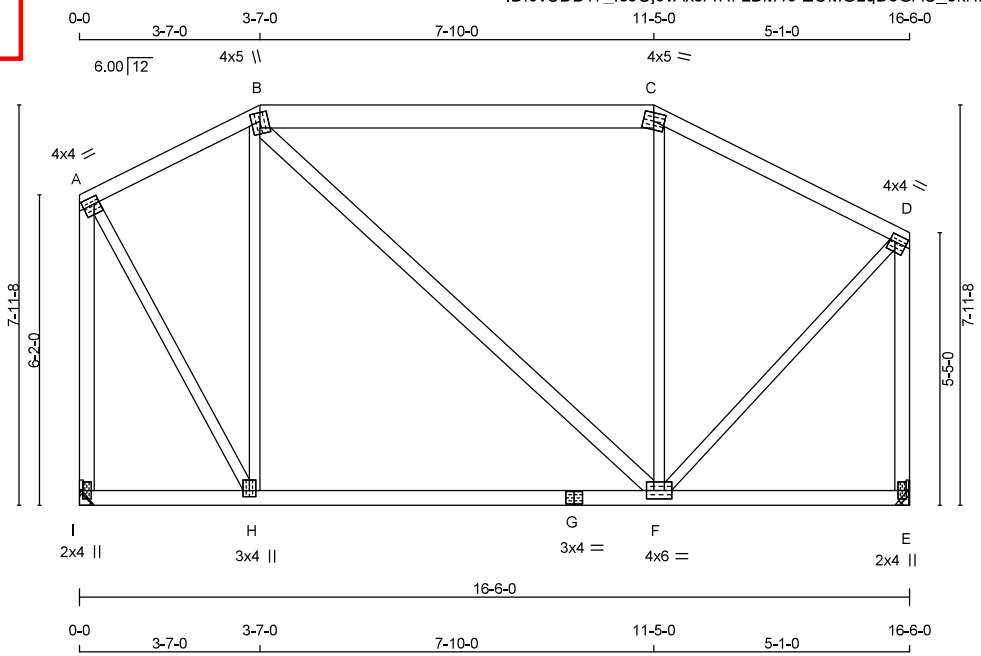
NE0723-039 T01
 TRUE COPY OF PERMIT PLANS
 OCT 31 2023

PER: *[Signature]*
 CHIEF BUILDING OFFICIAL

QUANTITY PLY JOB DESC. DRWG NO.

1 MHP 23031 TRUSS DESC.

Version 8.630 S Mar 22 2023 MiTek Industries, Inc. Fri Jul 7 15:27:33 2023 Page 1
 ID:5vUDB17_Ic6Oj0vAxs4RFzBM45-ZOMGLqD8GAU_8kHFRyV9kh4aXYKZicN03O4nFYz_QIO



Scale = 1:45.8

TOTAL WEIGHT = 91 lb

LUMBER
 N. L. G. A. RULES
 CHORDS SIZE LUMBER

A - B	2x4	DRY	No.2
B - C	2x6	DRY	No.2
C - D	2x4	DRY	No.2
I - A	2x4	DRY	No.2
E - D	2x4	DRY	No.2
I - G	2x4	DRY	No.2
G - E	2x4	DRY	No.2

ALL WEBS 2x3 DRY No.2 EXCEPT
 B - F 2x4 DRY No.2

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMVW4	MT20	4.0	4.0	1.75	1.25
B	TTW+m	MT20	4.0	5.0	2.00	2.00
C	TTW-m	MT20	4.0	5.0		
D	TMVW4	MT20	4.0	4.0	1.75	1.25
E	BMV1+p	MT20	2.0	4.0		
F	BMWWW-t	MT20	4.0	6.0		
G	BS-t	MT20	3.0	4.0		
H	BMWWW-t	MT20	3.0	4.0	1.50	1.50
I	BMV1+p	MT20	2.0	4.0		

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG
	VERT	HORZ	DOWN	HORZ		
I	1136	0	1136	0	MECHANICAL	MECHANICAL
E	1136	0	1136	0	MECHANICAL	MECHANICAL

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

UNFACTORED REACTIONS

JT	COMBINED	MAX./MIN. COMPONENT REACTIONS					
		SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
I	794	574 / 0	0 / 0	0 / 0	0 / 0	219 / 0	0 / 0
E	794	574 / 0	0 / 0	0 / 0	0 / 0	219 / 0	0 / 0

BRACING
 TOP CHORD TO BE SHEATHED OR MAX. PURLUN 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. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)		
FR-TO		FROM	TO	FR-TO				
A-B	-467 / 0	-119.4	-119.4	0.20 (1)	6.25	H-B	-580 / 0	0.69 (1)
B-C	-536 / 0	-119.4	-119.4	0.48 (1)	6.25	B-F	0 / 150	0.02 (1)
C-D	-590 / 0	-119.4	-119.4	0.40 (1)	6.25	F-C	-510 / 0	0.61 (1)
I-A	-1126 / 0	0.0	0.0	0.88 (1)	7.39	A-H	0 / 821	0.18 (1)
E-D	-1107 / 0	0.0	0.0	0.60 (1)	7.44	F-D	0 / 758	0.17 (1)
I-H	0 / 0	-18.2	-18.2	0.19 (4)	10.00			
H-G	0 / 427	-18.2	-18.2	0.23 (4)	10.00			
G-F	0 / 427	-18.2	-18.2	0.23 (4)	10.00			
F-E	0 / 0	-18.2	-18.2	0.20 (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

LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM

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
 - TPC 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 (0.55")
 CALCULATED VERT. DEFL.(LL) = L/999 (0.02")
 ALLOWABLE DEFL.(TL)= L/360 (0.55")
 CALCULATED VERT. DEFL.(TL) = L/999 (0.09")

CSI: TC=0.89/0.97 (A-I:1) , BC=0.23/0.97 (F-H:4) , WB=0.69/0.97 (B-H:1) , SS=0.28/1.00 (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) SHEAR SECTION (PL) (PL)
 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 = 0.29 (A) (INPUT = 1.00)



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.

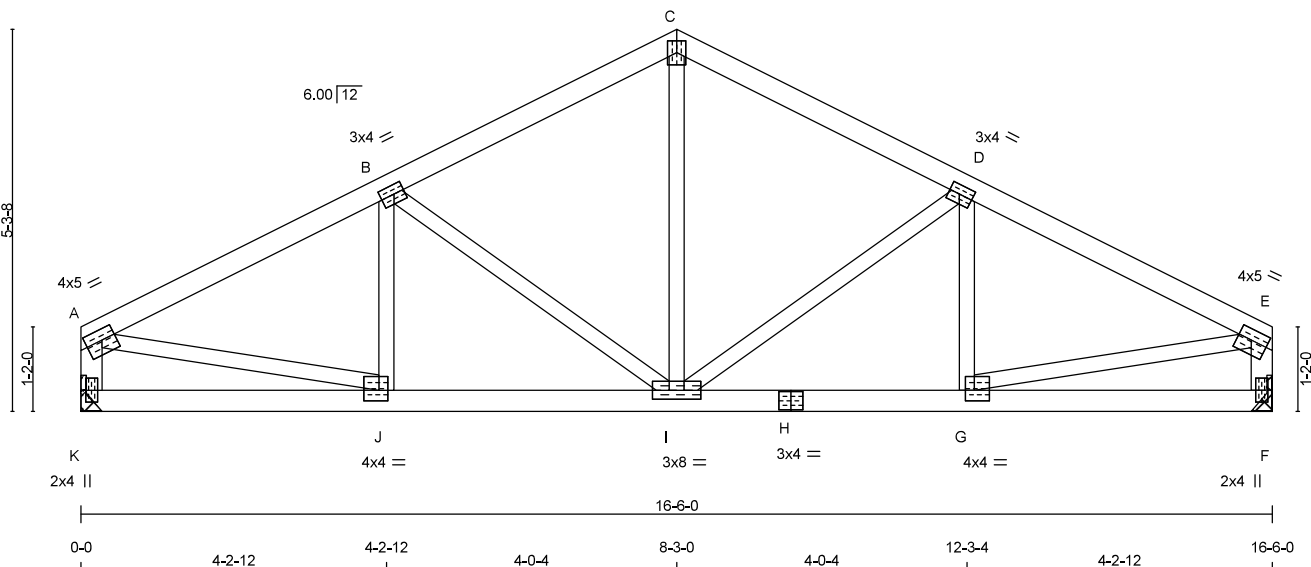


PER: *C. Masri*
CHIEF BUILDING OFFICIAL

4-2-12 4-2-12 4-0-4 8-3-0 4-0-4 12-3-4 4-2-12 16-6-0

3x4 ||

Scale: 3/8"=1'



TOTAL WEIGHT = 2 X 64 = 128 lb

LUMBER

N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
A - C	2x4	DRY No.2	SPF
C - E	2x4	DRY No.2	SPF
K - A	2x4	DRY No.2	SPF
F - E	2x4	DRY No.2	SPF
K - H	2x4	DRY No.2	SPF
H - F	2x4	DRY No.2	SPF
ALL WEBS EXCEPT	2x3	DRY No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMVW4	MT20	4.0	5.0	1.75	2.25
B	TMVW4	MT20	3.0	4.0	1.50	1.75
C	TTV+p	MT20	3.0	4.0		
D	TMVW4	MT20	3.0	4.0	1.50	1.75
E	TMVW4	MT20	4.0	5.0	1.75	2.25
F	BMV1+p	MT20	2.0	4.0		
G	BMVW4	MT20	4.0	4.0	1.75	1.50
H	BS-t	MT20	3.0	4.0		
I	BMVW4	MT20	3.0	8.0		
J	BMVW4	MT20	4.0	4.0	1.75	1.50
K	BMV1+p	MT20	2.0	4.0		

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

BEARINGS

JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
K	1136	0	1136	0	0	MECHANICAL	MECHANICAL
F	1136	0	1136	0	0	MECHANICAL	MECHANICAL

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

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
K	794	574 / 0	0 / 0	0 / 0	0 / 0	219 / 0	0 / 0
F	794	574 / 0	0 / 0	0 / 0	0 / 0	219 / 0	0 / 0

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.16 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)	MEMB.
FR-TO				FR-TO			
A-B	-1411 / 0	-119.4	0.27 (1)	I-C	0 / 581	0.13 (1)	
B-C	-1083 / 0	-119.4	0.28 (1)	F-D	-421 / 0	0.17 (1)	
C-D	-1083 / 0	-119.4	0.28 (1)	G-D	-186 / 24	0.04 (1)	
D-E	-1411 / 0	-119.4	0.27 (1)	B-I	-421 / 0	0.17 (1)	
K-A	-1100 / 0	0.0	0.11 (1)	J-B	-186 / 24	0.04 (1)	
F-E	-1100 / 0	0.0	0.11 (1)	A-J	0 / 1311	0.29 (1)	
				G-E	0 / 1311	0.29 (1)	
K-J	0 / 0	-18.2	-18.2, 0.07 (4)				
J-I	0 / 1284	-18.2	-18.2, 0.24 (1)				
I-H	0 / 1284	-18.2	-18.2, 0.24 (1)				
H-G	0 / 1284	-18.2	-18.2, 0.24 (1)				
G-F	0 / 0	-18.2	-18.2, 0.07 (4)				

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 (0.55")
CALCULATED VERT. DEFL.(LL) = L/999 (0.04")
ALLOWABLE DEFL.(TL)= L/360 (0.55")
CALCULATED VERT. DEFL.(TL) = L/999 (0.06")

CSI: TC=0.27/0.97 (A-B:1), BC=0.24/0.97 (I-J:1), WB=0.29/0.97 (A-J:1), SSI=0.21/1.00 (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)	SECTION (PLI)
MT20	650	371	1747	788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

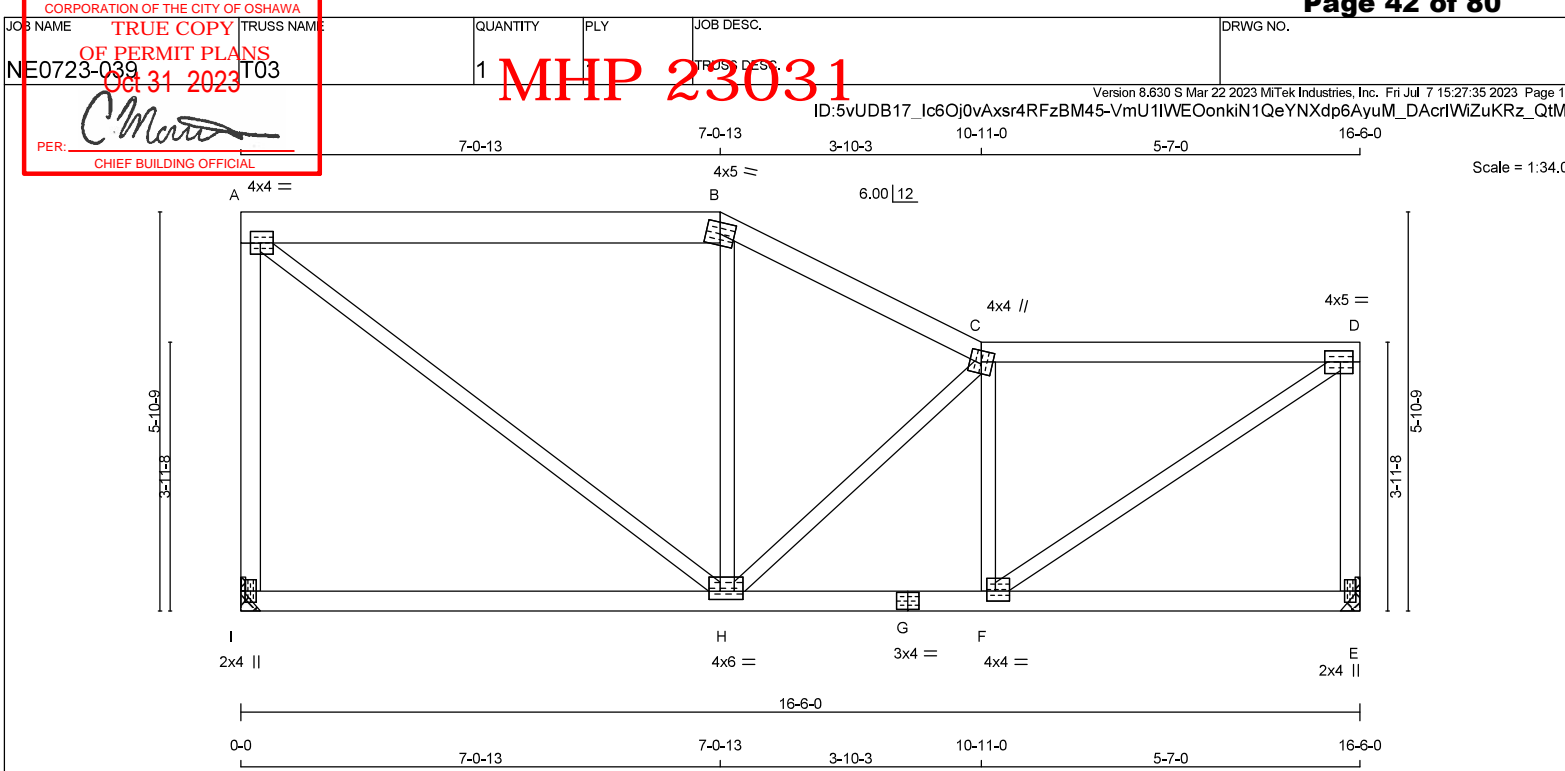
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.86 (A) (INPUT = 0.90)
JSI METAL= 0.44 (J) (INPUT = 1.00)



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.
I - A	2x4	DRY No.2	SPF
A - B	2x6	DRY No.2	SPF
B - C	2x4	DRY No.2	SPF
C - D	2x4	DRY No.2	SPF
E - D	2x4	DRY No.2	SPF
I - G	2x4	DRY No.2	SPF
G - E	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	TMVW4	MT20	4.0	4.0	2.00	1.75
B	TTW-m	MT20	4.0	5.0		
C	TTWV+mm	MT20	4.0	4.0		
D	TMVW4	MT20	4.0	5.0	2.00	2.25
E	BMV1+p	MT20	2.0	4.0		
F	BMVW4	MT20	4.0	4.0	1.75	1.50
G	BS4	MT20	3.0	4.0		
H	BMVWVW4	MT20	4.0	6.0	1.50	2.00
I	BMV1+p	MT20	2.0	4.0		

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

BEARINGS

JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
I	1136	0	1136	0	0	MECHANICAL	
E	1136	0	1136	0	0	MECHANICAL	

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

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
I	794	574 / 0	0 / 0	0 / 0	0 / 0	219 / 0	0 / 0
E	794	574 / 0	0 / 0	0 / 0	0 / 0	219 / 0	0 / 0

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.69 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)	MEMB.
FR-TO				FR-TO			
I-A	-1081 / 0	0.0	0.0 0.65 (1)	A-H	0 / 1075	0.24 (1)	
A-B	-853 / 0	-119.4	-119.4 0.51 (1)	H-B	-233 / 28	0.12 (1)	
B-C	-944 / 0	-119.4	-119.4 0.32 (1)	H-C	-425 / 0	0.19 (1)	
C-D	-1133 / 0	-119.4	-119.4 0.70 (1)	F-C	-683 / 0	0.17 (1)	
E-D	-1090 / 0	0.0	0.0 0.26 (1)	F-D	0 / 1363	0.31 (1)	
I-H	0 / 0	-18.2	-18.2 0.19 (4)				
H-G	0 / 1152	-18.2	-18.2 0.29 (1)				
G-F	0 / 1152	-18.2	-18.2 0.29 (1)				
F-E	0 / 0	-18.2	-18.2 0.12 (4)				

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

LOADING IN ALL FLAT SECTIONS BASED ON A SLOPE OF 2.00/12 MINIMUM
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
- TPC 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 (0.55")
CALCULATED VERT. DEFL.(LL) = L/999 (0.04")
ALLOWABLE DEFL.(TL) = L/360 (0.55")
CALCULATED VERT. DEFL.(TL) = L/999 (0.10")

CSI: TC=0.70/0.97 (C-D:1), BC=0.29/0.97 (F-H:1), WB=0.31/0.97 (D-F:1), SSI=0.26/1.00 (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 (PL) (PS) (PL)
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.

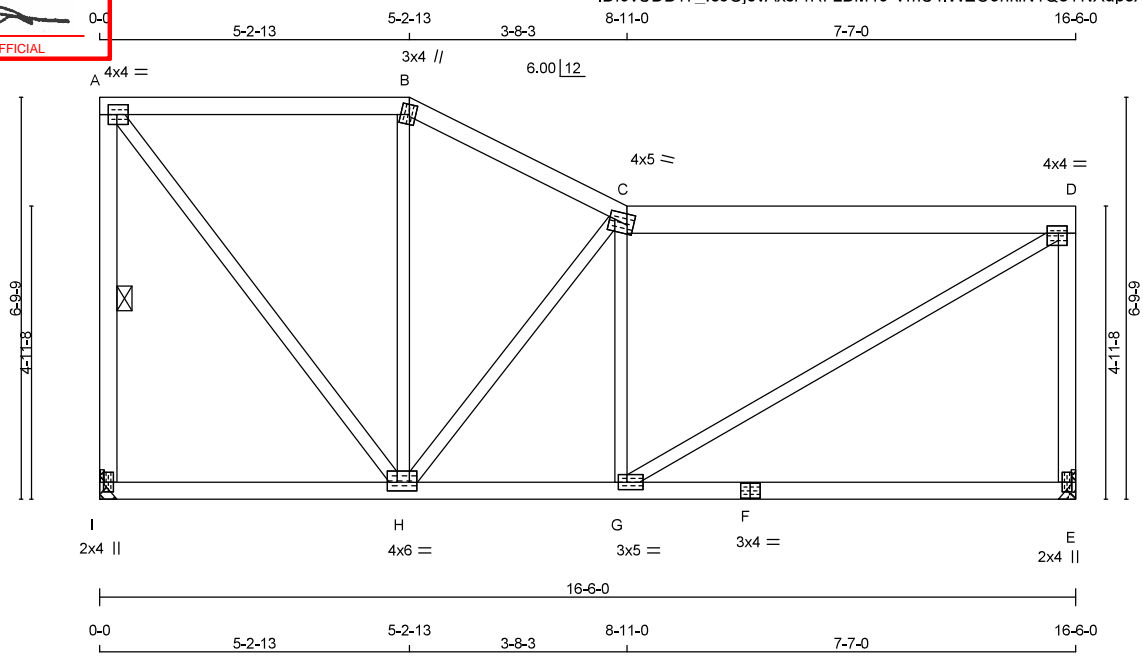
JSI GRIP = 0.89 (C) (INPUT = 0.90)
JSI METAL = 0.39 (F) (INPUT = 1.00)



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.



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 OCT 31 2023
 PER: *[Signature]*
 CHIEF BUILDING OFFICIAL



Scale = 1:39.0

TOTAL WEIGHT = 82 lb

LUMBER
 N. L. G. A. RULES

CHORDS	SIZE	LUMBER
I - A	2x4	DRY No.2
A - B	2x4	DRY No.2
B - C	2x4	DRY No.2
C - D	2x6	DRY No.2
E - D	2x4	DRY No.2
I - F	2x4	DRY No.2
F - E	2x4	DRY No.2

ALL WEBS 2x3 DRY No.2
 DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMVW4	MT20	4.0	4.0	2.00	1.75
B	TTW+m	MT20	3.0	4.0	2.00	1.25
C	TTW+m	MT20	4.0	5.0	2.25	1.25
D	TMVW4	MT20	4.0	4.0	1.50	1.75
E	BMV1+p	MT20	2.0	4.0		
F	BS4	MT20	3.0	4.0		
G	BMVW4	MT20	3.0	5.0	1.50	1.75
H	BMVWV4	MT20	4.0	6.0	1.75	2.00
I	BMV1+p	MT20	2.0	4.0		

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

BEARINGS

JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
I	1136	0	1136	0	0	MECHANICAL	
E	1136	0	1136	0	0	MECHANICAL	

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

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
I	794	574 / 0	0 / 0	0 / 0	0 / 0	219 / 0	0 / 0
E	794	574 / 0	0 / 0	0 / 0	0 / 0	219 / 0	0 / 0

BRACING
 TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.10 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 A-H. DBS = 20-0-0. CBF = 137 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)

MEMB.	CHORDS MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD				MAX. UNBRAC LENGTH	WEBS MEMB. FORCE (LBS)	MAX. FACTORED CSI (LC)
		FROM	TO	LC1	MAX			
I-A	-1093 / 0	0.0	0.0	0.23 (1)	5.98	A-H	0 / 995	0.22 (1)
A-B	-616 / 0	-119.4	-119.4	0.58 (1)	6.24	H-B	-217 / 12	0.17 (1)
B-C	-696 / 0	-119.4	-119.4	0.29 (1)	6.25	H-C	-644 / 0	0.40 (1)
C-D	-1039 / 0	-119.4	-119.4	0.60 (1)	6.10	G-C	-487 / 0	0.18 (1)
E-D	-1077 / 0	0.0	0.0	0.40 (1)	7.52	G-D	0 / 1209	0.27 (1)
I-H	0 / 0	-18.2	-18.2	0.11 (4)	10.00			
H-G	0 / 1028	-18.2	-18.2	0.29 (4)	10.00			
G-F	0 / 0	-18.2	-18.2	0.22 (4)	10.00			
F-E	0 / 0	-18.2	-18.2	0.22 (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

LOADING IN ALL FLAT SECTIONS BASED ON A SLOPE OF 2.00/12 MINIMUM

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

THIS DESIGN COMPLIES WITH:
 - PART 9 OF NBCC 2018, NBC-2019AE
 - PART 9 OF OBC 2012 (2019 AMENDMENT)
 - CSA 086-14
 - TPC 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 (0.55")
 CALCULATED VERT. DEFL.(LL) = L/999 (0.03")
 ALLOWABLE DEFL.(TL) = L/360 (0.55")
 CALCULATED VERT. DEFL.(TL) = L/999 (0.13")

CSI: TC=0.60/0.97 (C-D:1), BC=0.29/0.97 (G-H:4), WB=0.40/0.97 (C-H:1), SSI=0.27/1.00 (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) (PL) (PL)
 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.

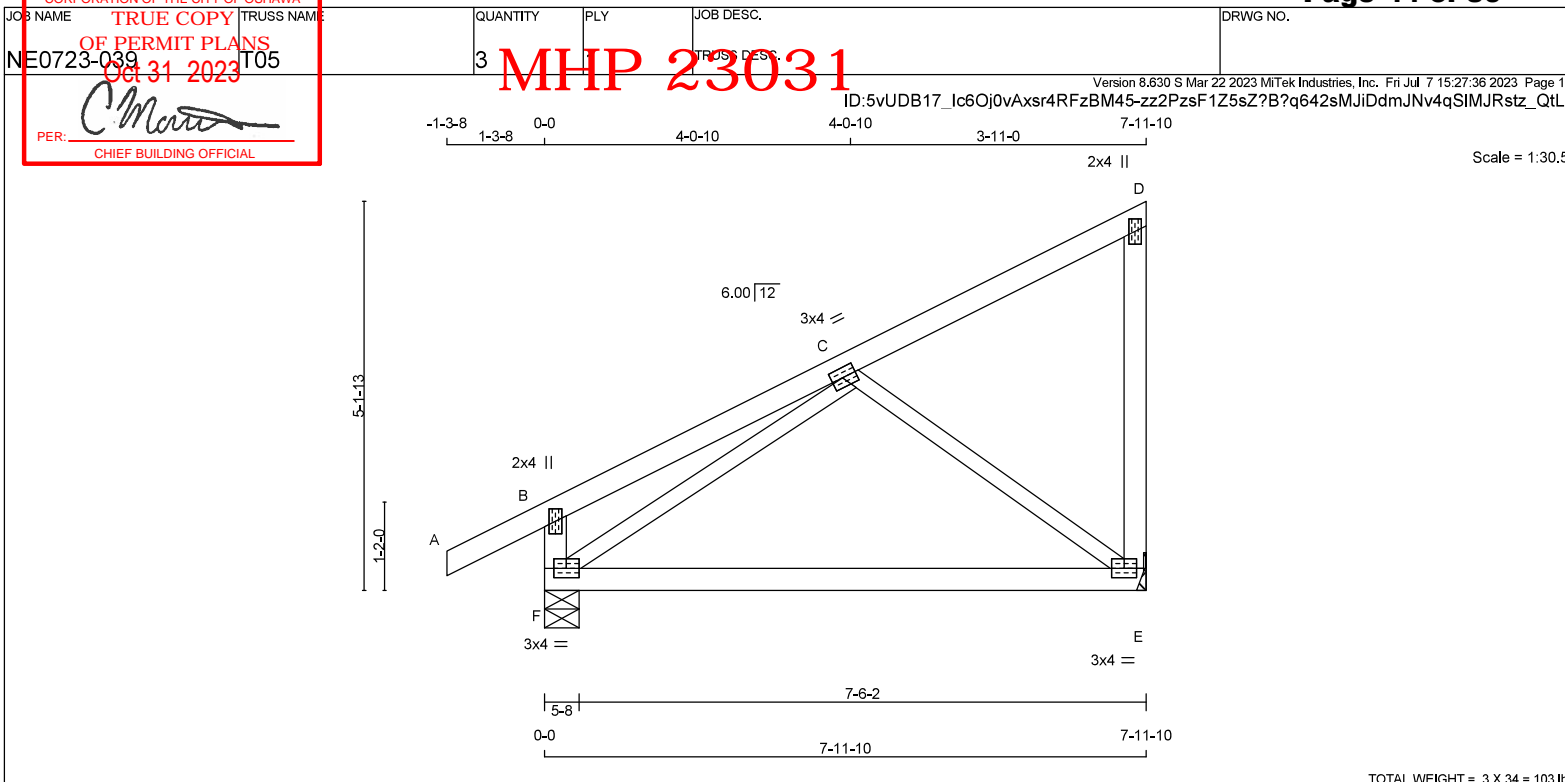
JSI GRIP= 0.89 (G) (INPUT = 0.90)
 JSI METAL = 0.35 (D) (INPUT = 1.00)



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.



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 Oct 31 2023
 PER: *[Signature]*
 CHIEF BUILDING OFFICIAL



LUMBER
 N. L. G. A. RULES
 CHORDS SIZE LUMBER
 A - D 2x4 DRY No.2
 E - D 2x4 DRY No.2
 F - B 2x4 DRY No.2
 F - E 2x4 DRY No.2
 ALL WEBS 2x3 DRY No.2 EXCEPT
 DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	2.0	4.0		
C	TMWW-H	MT20	3.0	4.0	1.50	1.75
D	TMV+p	MT20	2.0	4.0		
E	BMVW14	MT20	3.0	4.0		
F	BMVW14	MT20	3.0	4.0		

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

BEARINGS

JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
E	549	0	549	0	0	MECHANICAL	
F	711	0	711	0	0	5-8	1-8

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

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
E	383	277 / 0	0 / 0	0 / 0	0 / 0	106 / 0	0 / 0
F	494	372 / 0	0 / 0	0 / 0	0 / 0	122 / 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 = 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)

MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)		MAX. UNBRACED LENGTH FR-TO	MEMB.	MAX. FACTORED FORCE (LBS)	
		FROM	TO			FR-TO	CS
A-B	0 / 36	-119.4	-119.4	0.16 (1)	10.00	C-E	-508 / 0
B-C	0 / 26	-119.4	-119.4	0.31 (1)	10.00	F-C	-510 / 0
C-D	-25 / 0	-119.4	-119.4	0.24 (1)	6.25		
E-D	-183 / 0	0.0	0.0	0.08 (1)	7.81		
F-B	-341 / 0	0.0	0.0	0.03 (1)	7.81		
F-E	0 / 414	-18.2	-18.2	0.35 (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.(TL)= L/360 (0.27")
 CALCULATED VERT. DEFL.(TL)= L/ 533 (0.18")

CSI: TC=0.31/0.97 (B-C:1), BC=0.35/0.97 (E-F:4), WB=0.20/0.97 (C-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)	SHEAR (PSI)	SECTION (PLI)
MT20	650	371	1747 788 1987 1873

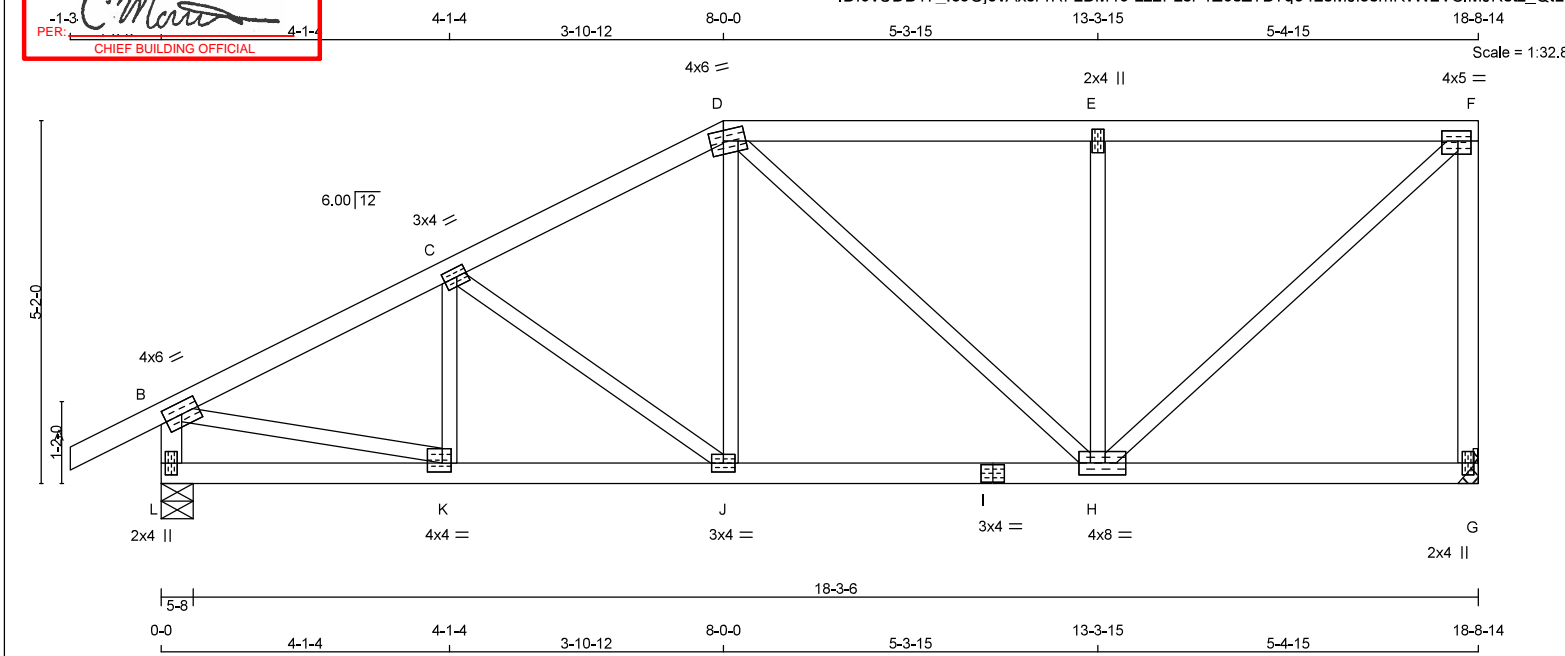
PLATE PLACEMENT TOL. = 0.250 inches
 PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.64 (F) (INPUT = 0.90)
 JSI METAL= 0.14 (F) (INPUT = 1.00)

LICENSED PROFESSIONAL ENGINEER
 N.A. EL-MASRI
[Signature]
 APPROVING OFFICER
 PROVINCE OF ONTARIO
 Jul 07, 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.





TOTAL WEIGHT = 79 lb

LUMBER
 N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY No.2	SPF
D - F	2x4	DRY No.2	SPF
G - F	2x4	DRY No.2	SPF
L - B	2x4	DRY No.2	SPF
L - I	2x4	DRY No.2	SPF
I - G	2x4	DRY No.2	SPF

ALL WEBS EXCEPT
 DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW4	MT20	4.0	6.0	2.00	3.00
C	TMVW4	MT20	3.0	4.0	1.50	1.75
D	TMVW4m	MT20	4.0	6.0	1.75	2.25
E	TMVW4	MT20	2.0	4.0		
F	TMVW4	MT20	4.0	5.0	1.75	2.25
G	BMV1+p	MT20	2.0	4.0		
H	BMVWVW4	MT20	4.0	8.0	2.00	2.00
I	BS-t	MT20	3.0	4.0		
J	BMVW4	MT20	3.0	4.0		
K	BMVW4	MT20	4.0	4.0	1.50	1.50
L	BMV1+p	MT20	2.0	4.0		

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

DESIGNER BEARINGS

JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
G	1290	0	1290	0	0	MECHANICAL	
L	1452	0	1452	0	0	5-8	1-9

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

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
G	902	652 / 0	0 / 0	0 / 0	0 / 0	249 / 0	0 / 0
L	1012	747 / 0	0 / 0	0 / 0	0 / 0	266 / 0	0 / 0

BRACING
 TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.72 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)

MEMB.	MAX. FACTORED FORCE (LBS)	CHORDS		WEBS		
		VERT. LOAD (PLF)	MAX. CSI (LC)	MEMB. UNBRAC LENGTH FR-TO	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)
A-B	0 / 36	-119.4	-119.4 0.16 (1)	10.00	K-C -243 / 4	0.05 (1)
B-C	-1651 / 0	-119.4	-119.4 0.35 (1)	4.72	C-J -348 / 0	0.14 (1)
C-D	-1386 / 0	-119.4	-119.4 0.33 (1)	5.07	J-D 0 / 292	0.07 (1)
D-E	-1112 / 0	-119.4	-119.4 0.62 (1)	4.93	D-H -149 / 0	0.14 (1)
E-F	-1112 / 0	-119.4	-119.4 0.62 (1)	4.93	H-E -794 / 0	0.31 (1)
G-F	-1249 / 0	0.0	0.0 0.57 (1)	7.11	H-F 0 / 1497	0.34 (1)
L-B	-1416 / 0	0.0	0.0 0.14 (1)	6.77	B-K 0 / 1530	0.34 (1)
L-K	0 / 0	-18.2	-18.2 0.06 (4)	10.00		
K-J	0 / 1498	-18.2	-18.2 0.28 (1)	10.00		
J-I	0 / 1222	-18.2	-18.2 0.26 (1)	10.00		
I-H	0 / 1222	-18.2	-18.2 0.26 (1)	10.00		
H-G	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

LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM

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 (0.62")
 CALCULATED VERT. DEFL.(LL) = L / 999 (0.04")
 ALLOWABLE DEFL.(TL)= L/360 (0.62")
 CALCULATED VERT. DEFL.(TL) = L / 999 (0.08")

CSI: TC=0.62/0.97 (E-F:1) , BC=0.28/0.97 (H-K:1) , WB=0.34/0.97 (B-K:1) , SSI=0.31/1.00 (E-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 (PL) (PL)
 (PS) (PL)
 MAX MIN MAX MIN MAX MIN
 MT20 650 371 1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

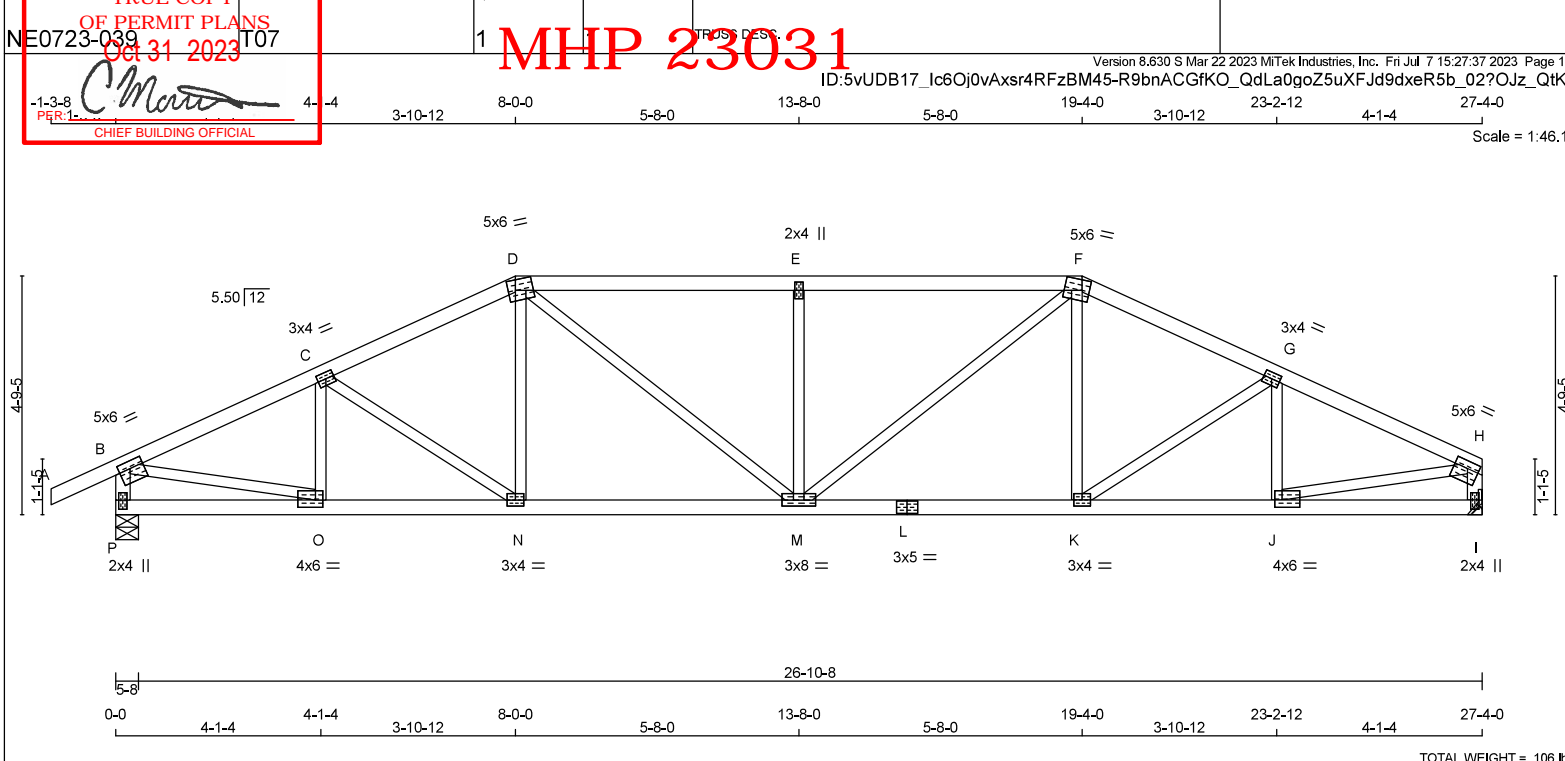
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (H) (INPUT = 0.90)
 JSI METAL = 0.51 (K) (INPUT = 1.00)



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 - D	2x4	DRY No.2	SPF
D - F	2x4	DRY No.2	SPF
F - H	2x4	DRY No.2	SPF
P - B	2x4	DRY No.2	SPF
P - H	2x4	DRY No.2	SPF
P - L	2x4	DRY No.2	SPF
L - I	2x4	DRY No.2	SPF
ALL WEBS EXCEPT	2x3	DRY No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW4	MT20	5.0	6.0	1.75	2.75
C	TMVW4	MT20	3.0	4.0		
D	TTVW-m	MT20	5.0	6.0	2.50	1.75
E	TMVW-w	MT20	2.0	4.0		
F	TTVW-m	MT20	5.0	6.0	2.50	1.75
G	TMVW4	MT20	3.0	4.0		
H	TMVW4	MT20	5.0	6.0	1.75	2.75
I	BMV1+p	MT20	2.0	4.0	2.25	1.00
J	BMVW4	MT20	4.0	6.0	1.75	1.75
K	BMVW4	MT20	3.0	4.0		
L	BS-t	MT20	3.0	5.0		
M	BMVW4	MT20	3.0	8.0		
N	BMVW4	MT20	3.0	4.0		
O	BMVW4	MT20	4.0	6.0	1.75	1.75
P	BMV1+p	MT20	2.0	4.0	2.25	1.00

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.

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

BEARINGS

JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
P	2043	0	2043	0	0	5-8	3-2
I	1882	0	1882	0	0	MECHANICAL	

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT I. MINIMUM BEARING LENGTH AT JOINT I = 2-10.

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
P	1425	1046 / 0	0 / 0	0 / 0	0 / 0	380 / 0	0 / 0
I	1315	951 / 0	0 / 0	0 / 0	0 / 0	364 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.34 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)

MEMB.	MAX. FACTORED FORCE (LBS)	CHORDS		WEBS	
		VERT. LOAD (PLF)	MAX. UNI-RAC (LC)	MEMB. FORCE (LBS)	MAX. FACTORED UNI-RAC (LC)
FR-TO					
A-B	0 / 34	-119.4	-119.4 0.15 (1)	10.00	C-C -434 / 0 0.08 (1)
B-C	-2749 / 0	-119.4	-119.4 0.31 (1)	3.89	C-N -160 / 0 0.06 (1)
C-D	-2647 / 0	-119.4	-119.4 0.30 (1)	3.97	N-D 0 / 192 0.04 (1)
D-E	-2976 / 0	-119.4	-119.4 0.62 (1)	3.34	D-M 0 / 747 0.17 (1)
E-F	-2976 / 0	-119.4	-119.4 0.62 (1)	3.34	M-E -829 / 0 0.28 (1)
F-G	-2647 / 0	-119.4	-119.4 0.30 (1)	3.97	M-F 0 / 747 0.17 (1)
G-H	-2749 / 0	-119.4	-119.4 0.31 (1)	3.89	K-F 0 / 192 0.04 (1)
P-B	-2003 / 0	0.0	0.0 0.20 (1)	5.89	K-G -160 / 0 0.06 (1)
I-H	-1841 / 0	0.0	0.0 0.19 (1)	6.10	J-G -434 / 0 0.08 (1)
P-O	0 / 0	-18.2	-18.2 0.07 (4)	10.00	B-O 0 / 2565 0.58 (1)
Q-N	0 / 2518	-18.2	-18.2 0.46 (1)	10.00	J-H 0 / 2565 0.58 (1)
N-M	0 / 2390	-18.2	-18.2 0.44 (1)	10.00	
M-L	0 / 2390	-18.2	-18.2 0.44 (1)	10.00	
L-K	0 / 2390	-18.2	-18.2 0.44 (1)	10.00	
K-J	0 / 2518	-18.2	-18.2 0.46 (1)	10.00	
J-I	0 / 0	-18.2	-18.2 0.07 (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

LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM

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
- TPC 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 (0.91")
CALCULATED VERT. DEFL.(LL) = L/999 (0.14")
ALLOWABLE DEFL.(TL) = L/360 (0.91")
CALCULATED VERT. DEFL.(TL) = L/999 (0.25")

CSI: TC=0.62/0.97 (E-F-1), BC=0.46/0.97 (N-O-1), WB=0.58/0.97 (H-J-1), SSI=0.33/1.00 (E-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 (PSI)	SECTION (PL)
MT20	650	371	1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (B) (INPUT = 0.90)
JSI METAL = 0.76 (L) (INPUT = 1.00)



CORPORATION OF THE CITY OF OSHAWA

JOB NAME TRUSS NAME

NE0723-039 T08

QUANTITY PLY JOB DESC.

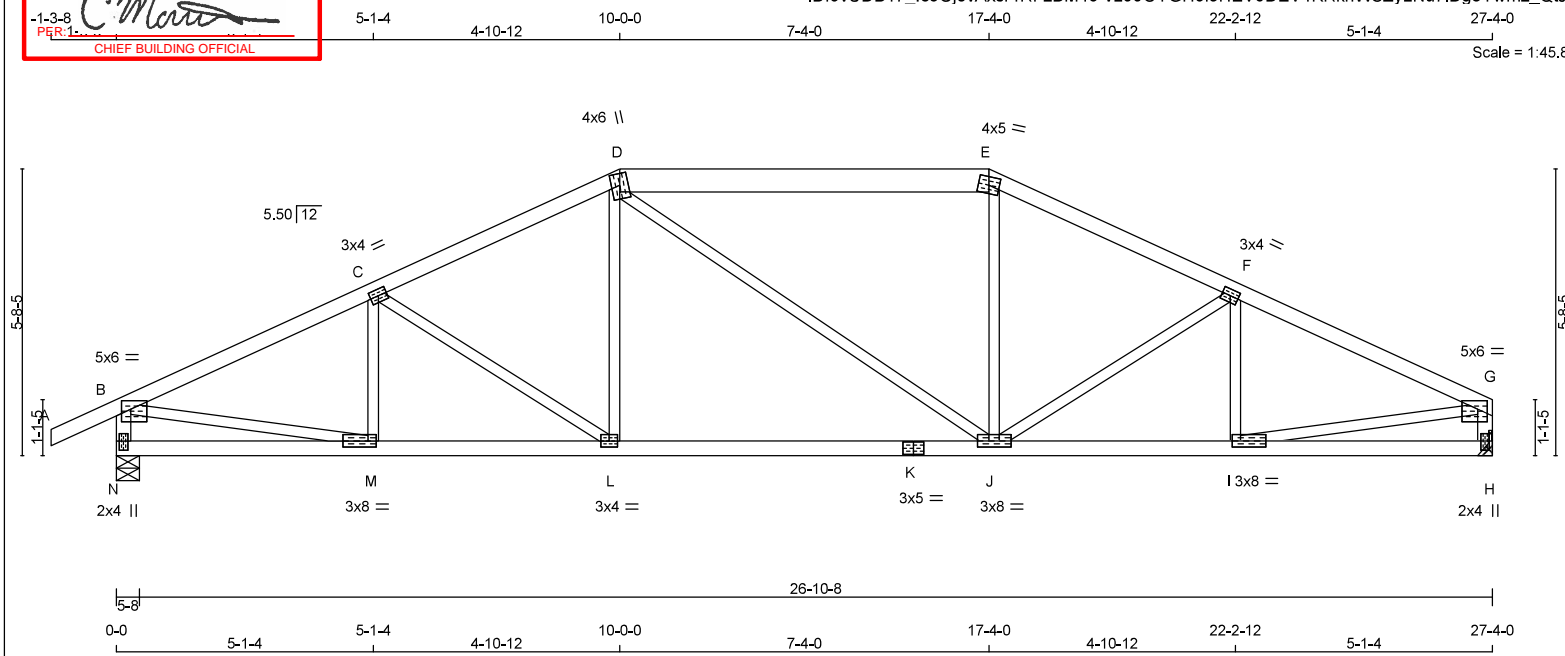
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DRWG NO.

Version 8.630 S Mar 22 2023 MiTek Industries, Inc. Fri Jul 7 15:27:38 2023 Page 1

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Signature: *Chief Building Official*
 -1-3-8
 PER 1:
 CHIEF BUILDING OFFICIAL



TOTAL WEIGHT = 109 lb

LUMBER

N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY No.2	SPF
D - E	2x6	DRY No.2	SPF
E - G	2x4	DRY No.2	SPF
N - B	2x4	DRY No.2	SPF
H - G	2x4	DRY No.2	SPF
N - K	2x4	DRY No.2	SPF
K - H	2x4	DRY No.2	SPF
ALL WEBS EXCEPT	2x3	DRY No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-p	MT20	5.0	6.0	2.00	2.25
C	TMVW-H	MT20	3.0	4.0		
D	TTW+m	MT20	4.0	6.0	2.75	2.00
E	TTW-m	MT20	4.0	5.0		
F	TMVW-H	MT20	3.0	4.0		
G	TMVW-p	MT20	5.0	6.0	2.00	2.25
H	BMV1+p	MT20	2.0	4.0	2.25	1.00
I	BMVW-H	MT20	3.0	8.0	1.50	2.00
J	BMVW-H	MT20	3.0	8.0		
K	BS-t	MT20	3.0	5.0		
L	BMVW-H	MT20	3.0	4.0		
M	BMVW-H	MT20	3.0	8.0	1.50	2.00
N	BMV1+p	MT20	2.0	4.0	2.25	1.00

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

BEARINGS

JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
N	2043	0	2043	0	0	5-8	3-2
H	1882	0	1882	0	0	MECHANICAL	

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT H. MINIMUM BEARING LENGTH AT JOINT H = 2-10.

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
N	1425	1046 / 0	0 / 0	0 / 0	0 / 0	380 / 0	0 / 0
H	1315	951 / 0	0 / 0	0 / 0	0 / 0	364 / 0	0 / 0

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

BRACING
 TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.64 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)	MEMB.
A-B	0 / 34	-119.4	0.15 (1)	10.00	M-C	-330 / 0	0.07 (1)
B-C	-2828 / 0	-119.4	0.48 (1)	3.64	C-L	-416 / 0	0.23 (1)
C-D	-2495 / 0	-119.4	0.45 (1)	3.88	L-D	0 / 353	0.08 (1)
D-E	-2242 / 0	-119.4	0.43 (1)	4.89	D-J	0 / 1	0.00 (1)
E-F	-2496 / 0	-119.4	0.45 (1)	3.88	J-E	0 / 354	0.08 (1)
F-G	-2828 / 0	-119.4	0.48 (1)	3.64	J-F	-415 / 0	0.23 (1)
N-B	-1997 / 0	0.0	0.20 (1)	5.89	I-F	-331 / 0	0.07 (1)
H-G	-1836 / 0	0.0	0.18 (1)	6.10	B-M	0 / 2628	0.59 (1)
					I-G	0 / 2628	0.59 (1)
N-M	0 / 0	-18.2	-0.11 (4)	10.00			
M-L	0 / 2596	-18.2	-0.51 (1)	10.00			
L-K	0 / 2241	-18.2	-0.48 (1)	10.00			
K-J	0 / 2241	-18.2	-0.48 (1)	10.00			
J-I	0 / 2596	-18.2	-0.51 (1)	10.00			
I-H	0 / 0	-18.2	-0.11 (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

LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM

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
 - TPC 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 (0.91")
 CALCULATED VERT. DEFL.(LL) = L/999 (0.12")
 ALLOWABLE DEFL.(TL) = L/360 (0.91")
 CALCULATED VERT. DEFL.(TL) = L/999 (0.25")

CSI: TC=0.48/0.97 (B-C:1) , BC=0.51/0.97 (I-J:1) , WB=0.59/0.97 (B-M:1) , SSI=0.28/1.00 (D-E: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 (PL) (PL)
 (PS) (PL)
 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.

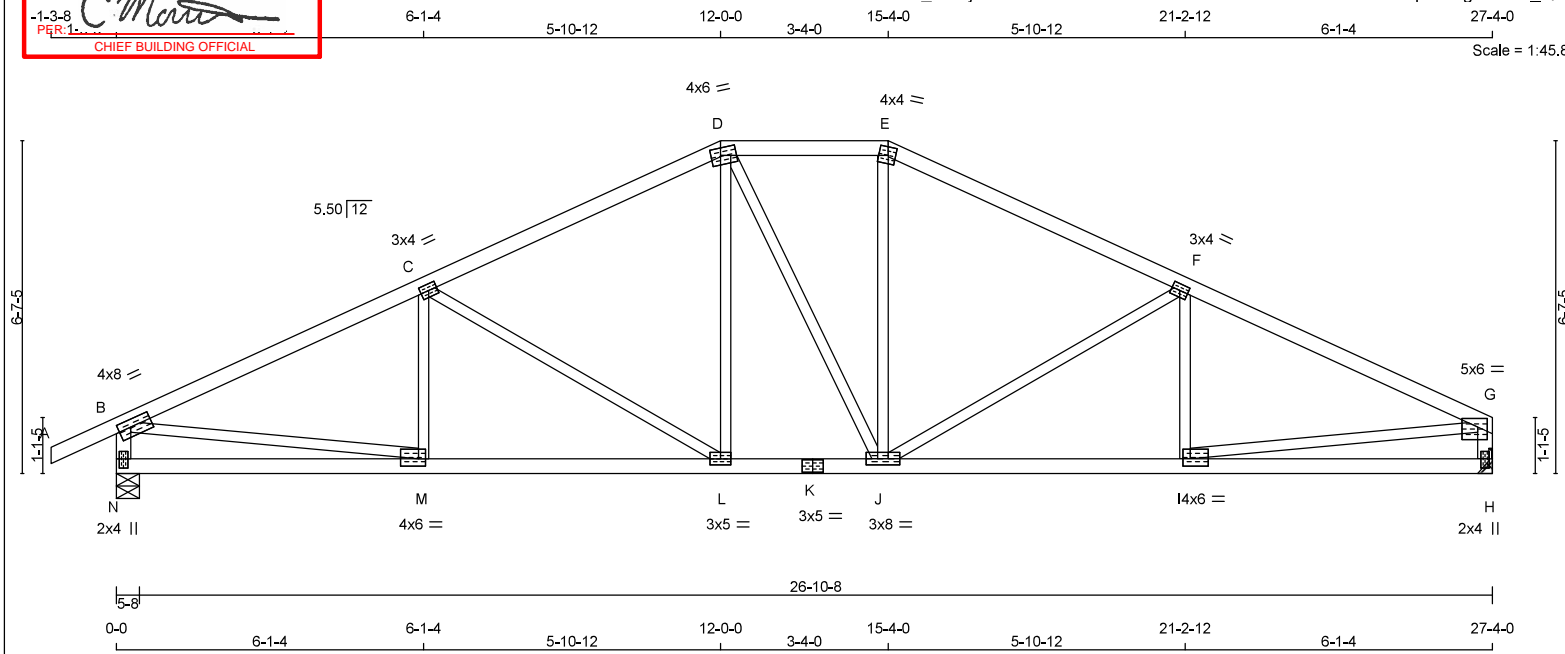
JSI GRIP= 0.89 (M) (INPUT = 0.90)
 JSI METAL = 0.67 (K) (INPUT = 1.00)



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.



Signature: *C. Masri*
 CHIEF BUILDING OFFICIAL



Scale = 1:45.8

TOTAL WEIGHT = 109 lb

LUMBER

N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY No.2	SPF
D - E	2x4	DRY No.2	SPF
E - G	2x4	DRY No.2	SPF
N - B	2x4	DRY No.2	SPF
H - G	2x4	DRY No.2	SPF
N - K	2x4	DRY No.2	SPF
K - H	2x4	DRY No.2	SPF
ALL WEBS EXCEPT	2x3	DRY No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMWW4	MT20	4.0	8.0	1.75	3.00
C	TMWW4	MT20	3.0	4.0		
D	TTWW-m	MT20	4.0	6.0	1.75	2.25
E	TTWW-m	MT20	4.0	4.0	2.00	1.75
F	TMWW4	MT20	3.0	4.0		
G	TMVV-p	MT20	5.0	6.0	2.00	2.25
H	BMV1+p	MT20	2.0	4.0	2.25	1.00
I	BMWW4	MT20	4.0	6.0	1.75	1.75
J	BMWW4	MT20	3.0	8.0		
K	BS-t	MT20	3.0	5.0		
L	BMWW4	MT20	3.0	5.0		
M	BMWW4	MT20	4.0	6.0	1.75	1.75
N	BMV1+p	MT20	2.0	4.0	2.25	1.00

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

BEARINGS

JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
N	2043	0	2043	0	0	5-8	3-2
H	1882	0	1882	0	0	MECHANICAL	

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT H. MINIMUM BEARING LENGTH AT JOINT H = 2-10.

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
N	1425	1046 / 0	0 / 0	0 / 0	0 / 0	380 / 0	0 / 0
H	1315	951 / 0	0 / 0	0 / 0	0 / 0	364 / 0	0 / 0

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

BRACING
 TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.29 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)	MEMB.
FR-TO	0 / 34	-119.4	119.4	0.15 (1)	10.00	M-C	-226 / 50
B-C	-2860 / 0	-119.4	119.4	0.71 (1)	3.29	C-L	-729 / 0
C-D	-2243 / 0	-119.4	119.4	0.63 (1)	3.77	L-D	0 / 454
D-E	-2015 / 0	-119.4	119.4	0.21 (1)	4.54	D-J	0 / 3
E-F	-2245 / 0	-119.4	119.4	0.63 (1)	3.77	J-E	0 / 457
F-G	-2859 / 0	-119.4	119.4	0.71 (1)	3.29	J-F	-727 / 0
N-B	-1994 / 0	0.0	0.0	0.20 (1)	5.90	I-F	-228 / 49
H-G	-1833 / 0	0.0	0.0	0.18 (1)	6.10	B-M	0 / 2654
						I-G	0 / 2653
N-M	0 / 0	-18.2	-18.2	0.16 (4)	10.00		
M-L	0 / 2631	-18.2	-18.2	0.48 (1)	10.00		
L-K	0 / 2013	-18.2	-18.2	0.38 (1)	10.00		
K-J	0 / 2013	-18.2	-18.2	0.38 (1)	10.00		
J-I	0 / 2631	-18.2	-18.2	0.48 (1)	10.00		
I-H	0 / 0	-18.2	-18.2	0.16 (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

LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM

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
 - TPC 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 (0.91")
 CALCULATED VERT. DEFL.(LL) = L / 999 (0.13")
 ALLOWABLE DEFL.(TL)= L/360 (0.91")
 CALCULATED VERT. DEFL.(TL) = L / 999 (0.23")

CSI: TC=0.71/0.97 (B-C:1) , BC=0.48/0.97 (L-M:1) , WB=0.68/0.97 (C-L:1) , SSI=0.32/1.00 (F-G: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 (PS)	SECTION (PL)
MT20	650	371	1747
	788	1987	1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

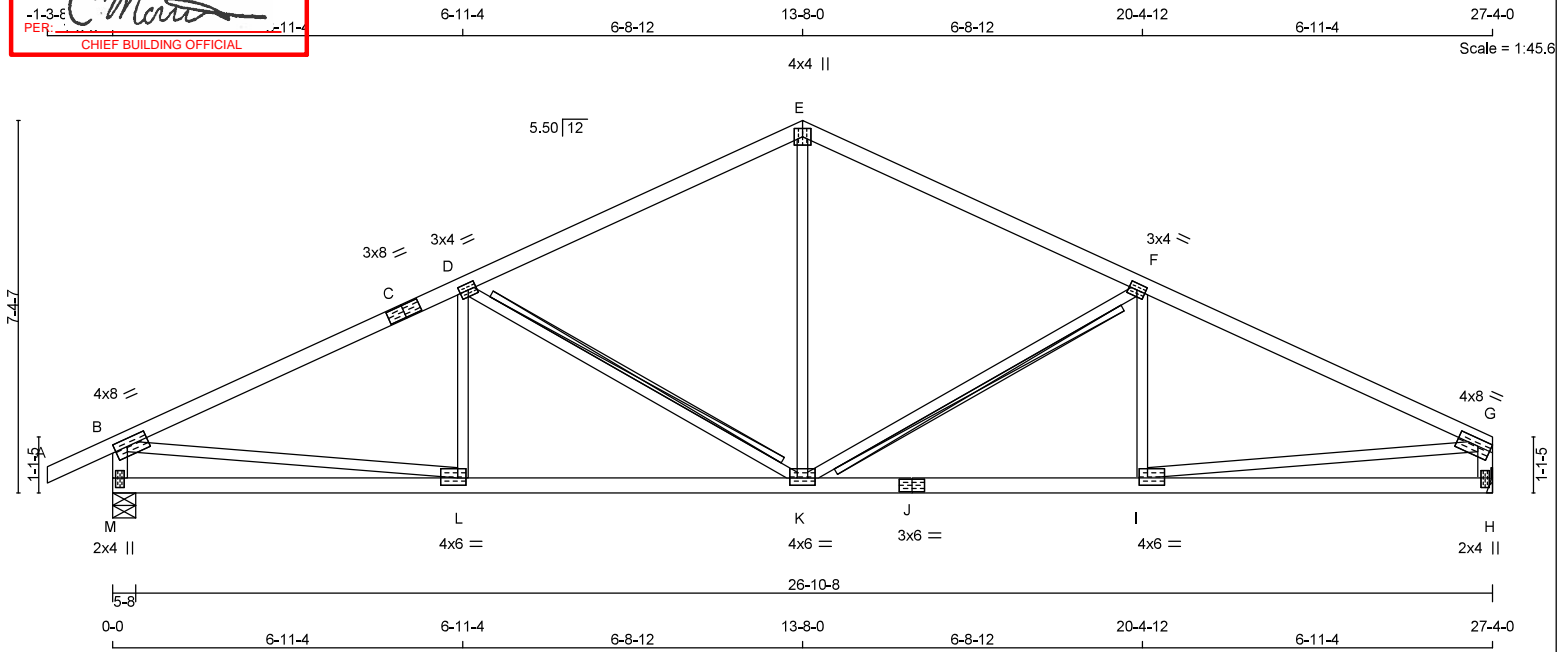
JSI GRIP= 0.90 (G) (INPUT = 0.90)
 JSI METAL = 0.63 (M) (INPUT = 1.00)



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.



PER: *[Signature]*
 CHIEF BUILDING OFFICIAL



TOTAL WEIGHT = 103 lb

LUMBER
 N. L. G. A. RULES
 CHORDS SIZE LUMBER

A - C	2x4	DRY	No.2
C - E	2x4	DRY	No.2
E - G	2x4	DRY	No.2
M - B	2x4	DRY	No.2
H - G	2x4	DRY	No.2
M - J	2x4	DRY	No.2
J - H	2x4	DRY	No.2
ALL WEBS EXCEPT	2x3	DRY	No.2

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW4	MT20	4.0	8.0	1.75	3.00
C	TS4	MT20	3.0	8.0		
D	TMVW4	MT20	3.0	4.0		
E	TTW+p	MT20	4.0	4.0		
F	TMVW4	MT20	3.0	4.0		
G	TMVW4	MT20	4.0	8.0	1.75	3.00
H	BMV1+p	MT20	2.0	4.0	2.25	1.00
I	BMVW4	MT20	4.0	6.0	1.75	2.00
J	BS-t	MT20	3.0	6.0		
K	BMVW4	MT20	4.0	6.0	1.75	3.00
L	BMVW4	MT20	4.0	6.0	1.75	2.00
M	BMV1+p	MT20	2.0	4.0	2.25	1.00

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

BEARINGS

JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
M	2043	0	2043	0	0	5-8	3-2
H	1882	0	1882	0	0	MECHANICAL	

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT H. MINIMUM BEARING LENGTH AT JOINT H = 2-10.

UNFACTORED REACTIONS

JT	1ST LCASE	MAX.	MIN.	COMPONENT REACTIONS
M	COMBINED	1425	1046 / 0	0 / 0
H	COMBINED	1315	951 / 0	0 / 0

BRACING
 TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.76 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.
 2x4 DRY SPF No.2 T-BRACE AT F-K, D-K
 FASTEN T AND I-BRACES TO NARROW EDGE OF WEB WITH ONE ROW PER PLY OF 3" COMMON WIRE NAILS @ 6" O.C. WITH 3" MINIMUM END DISTANCE. BRACE MUST COVER 90% OF WEB LENGTH.
 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)	MAX. LC1 (CSI (LC))	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (FR-TO)	MAX. FACTORED FORCE (LBS)
A-B	0 / 34	-119.4	-119.4 0.15 (1)	10.00	K-E	0 / 1072	0.24 (1)
B-C	-2852 / 0	-119.4	-119.4 0.95 (1)	2.76	K-F	-929 / 0	0.43 (1)
C-D	-2852 / 0	-119.4	-119.4 0.95 (1)	2.76	I-F	-172 / 75	0.05 (1)
D-E	-2054 / 0	-119.4	-119.4 0.81 (1)	3.48	D-K	-929 / 0	0.43 (1)
E-F	-2054 / 0	-119.4	-119.4 0.81 (1)	3.48	L-D	-172 / 75	0.05 (1)
F-G	-2852 / 0	-119.4	-119.4 0.95 (1)	2.76	B-L	0 / 2647	0.60 (1)
M-B	-1988 / 0	0.0	0.0 0.20 (1)	5.91	I-G	0 / 2647	0.60 (1)
H-G	-1827 / 0	0.0	0.0 0.18 (1)	6.12			
M-L	0 / 0	-18.2	-18.2 0.20 (4)	10.00			
L-K	0 / 2629	-18.2	-18.2 0.52 (1)	10.00			
K-J	0 / 2629	-18.2	-18.2 0.52 (1)	10.00			
J-I	0 / 2629	-18.2	-18.2 0.52 (1)	10.00			
I-H	0 / 0	-18.2	-18.2 0.20 (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

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 (0.91")
 CALCULATED VERT. DEFL.(LL) = L/999 (0.14")
 ALLOWABLE DEFL.(TL)= L/360 (0.91")
 CALCULATED VERT. DEFL.(TL) = L/999 (0.25")
 CSI: TC=0.95/0.97 (F-G-1), BC=0.52/0.97 (I-K-1), WB=0.60/0.97 (G-I-1), SSI=0.36/1.00 (F-G-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 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 (E) (INPUT = 0.90)
 JSI METAL= 0.80 (J) (INPUT = 1.00)



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.



CORPORATION OF THE CITY OF OSHAWA

JOB NAME TRUSS NAME

NE0723-039 T11
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QUANTITY PLY JOB DESC.

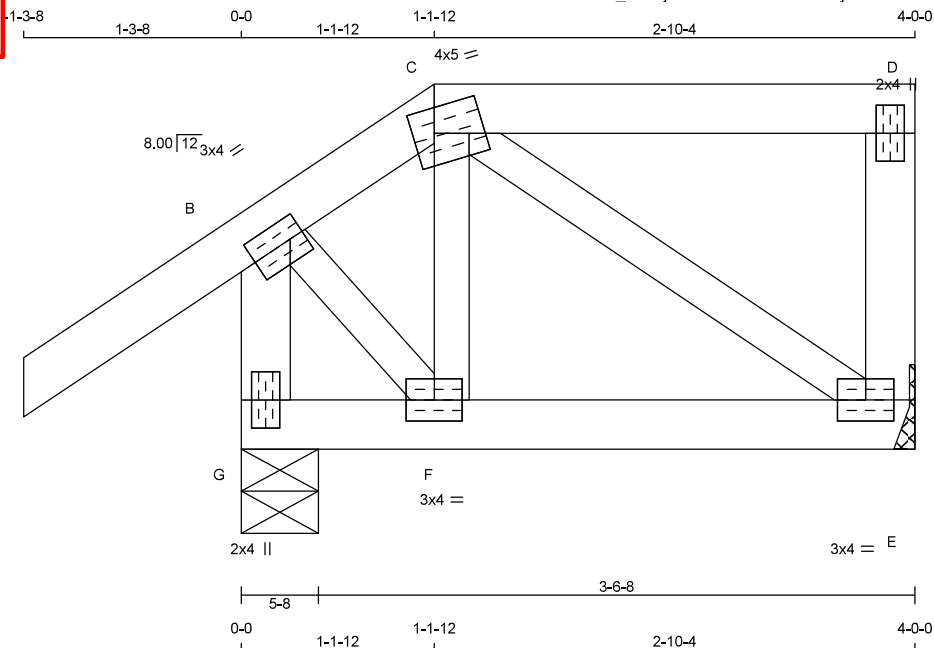
2 MHP 23031

DRWG NO.

Version 8.630 S Mar 22 2023 MiTek Industries, Inc. Fri Jul 7 15:27:39 2023 Page 1

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PER: *[Signature]*
 CHIEF BUILDING OFFICIAL



Scale = 1:13.7

TOTAL WEIGHT = 2 X 19 = 38 lb

LUMBER

N. L. G. A. RULES

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

ALL WEBS 2x3 DRY No.2 EXCEPT

SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW4	MT20	3.0	4.0	1.50	1.00
C	TTWW-m	MT20	4.0	5.0	1.75	1.50
D	TMV+p	MT20	2.0	4.0		
E	BMVW14	MT20	3.0	4.0		
F	BMVW4	MT20	3.0	4.0		
G	BMV1+p	MT20	2.0	4.0		

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

DESIGNER BEARINGS

JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
E	247	0	247	0	0	MECHANICAL	
G	467	0	467	0	0	5-8	1-8

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

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
E	173	123 / 0	0 / 0	0 / 0	0 / 0	50 / 0	0 / 0
G	324	251 / 0	0 / 0	0 / 0	0 / 0	72 / 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)

MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED (PLF)		MAX. UNBRACED LENGTH FR-TO	MEMB.	MAX. FACTORED FORCE (LBS)	
		VERT. LOAD	LC1 MAX			MEMB.	FORCE
A-B	0 / 45	-119.4	-119.4	0.16 (1)	F-C	-29 / 26	0.01 (4)
B-C	-158 / 0	-119.4	-119.4	0.15 (1)	C-E	-99 / 0	0.02 (1)
C-D	0 / 0	-119.4	-119.4	0.17 (1)	B-F	0 / 112	0.03 (1)
E-D	-170 / 0	0.0	0.0	0.02 (1)	G-B		
G-B	-462 / 0	0.0	0.0	0.05 (1)	G-F	0 / 0	-18.2 -18.2 0.03 (4) 10.00
G-F	0 / 0	-18.2	-18.2	0.04 (4)	F-E	0 / 83	-18.2 -18.2 0.04 (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

LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM

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=0.17/0.97 (C-D-1), BC=0.04/0.97 (E-F-4),
 WB=0.03/0.97 (B-F-1), SSI=0.13/1.00 (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 (PSI)	SECTION (PLI)
MT20	650	371	1747 788 1987 1873

PLATE PLACEMENT TOL. = 0,250 inches

PLATE ROTATION TOL. = 5.0 Deg.

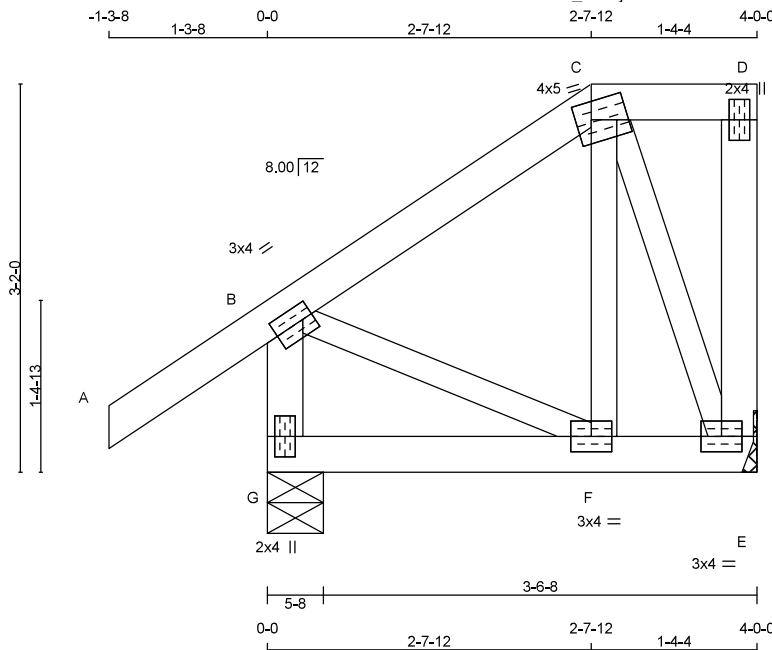
JSI GRIP= 0.40 (B) (INPUT = 0.90)
 JSI METAL= 0.10 (B) (INPUT = 1.00)



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.



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 Oct 31 2023
 PER: *[Signature]*
 CHIEF BUILDING OFFICIAL



Scale = 1:18.8

TOTAL WEIGHT = 2 X 22 = 44 lb

LUMBER

N. L. G. A. RULES

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

ALL WEBS 2x3 DRY No.2 EXCEPT SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW4	MT20	3.0	4.0	1.50	1.00
C	TTWW-m	MT20	4.0	5.0	1.75	1.50
D	TMV+p	MT20	2.0	4.0		
E	BMVW14	MT20	3.0	4.0		
F	BMVW4	MT20	3.0	4.0		
G	BMV1+p	MT20	2.0	4.0		

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

BEARINGS

JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
E	275	0	275	0	0	MECHANICAL	
G	439	0	439	0	0	5-8	1-8

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

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
E	192	139 / 0	0 / 0	0 / 0	0 / 0	53 / 0	0 / 0
G	304	235 / 0	0 / 0	0 / 0	0 / 0	70 / 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)

MEMB.	MAX. FACTORED FORCE (LBS)	CHORDS			WEBS			
		VERT. LOAD (PL)	LC1 MAX	MAX. UNBRAC LENGTH FR-TO	MEMB. FORCE (LBS)	MAX. FACTORED CS1 (LC)	MAX. FACTORED CS1 (LC)	
FR-TO	0 / 45	-119.4	-119.4	0.16 (1)	10.00	F-C	0 / 44	0.02 (4)
B-C	-107 / 0	-119.4	-119.4	0.14 (1)	6.25	C-E	-208 / 0	0.04 (1)
C-D	0 / 0	-119.4	-119.4	0.04 (1)	10.00	B-F	0 / 95	0.02 (1)
E-D	-81 / 0	0.0	0.0	0.01 (1)	7.81			
G-B	-416 / 0	0.0	0.0	0.04 (1)	7.81			
G-F	0 / 0	-18.2	-18.2	0.03 (4)	10.00			
F-E	0 / 89	-18.2	-18.2	0.03 (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

LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM

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=0.16/0.97 (A-B:1) , BC=0.03/0.97 (E-F:4) , WB=0.04/0.97 (C-E:1) , SS=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) (PS)	SHEAR (PL)	SECTION (PL)
MT20	650	371	1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.43 (C) (INPUT = 0.90)
 JSI METAL = 0.10 (B) (INPUT = 1.00)



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.



CORPORATION OF THE CITY OF OSHAWA

JOB NAME TRUSS NAME

NE0723-039 T113
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QUANTITY PLY JOB DESC.

1 MHP 23031

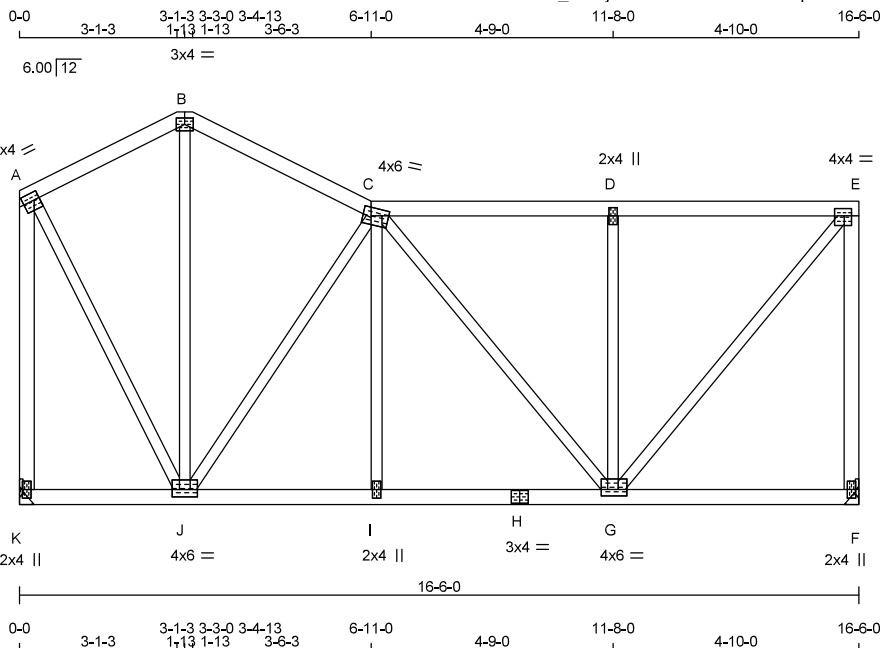
TRUSS DESC.

DRWG NO.

Version 8.630 S Mar 22 2023 MiTek Industries, Inc. Fri Jul 7 15:27:40 2023 Page 1

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PER: *C. Marra*
 CHIEF BUILDING OFFICIAL



Scale = 1:45.3

TOTAL WEIGHT = 88 lb

LUMBER
 N. L. G. A. RULES

CHORDS	SIZE	LUMBER
A - B	2x4	DRY No.2
B - C	2x4	DRY No.2
C - E	2x4	DRY No.2
F - E	2x4	DRY No.2
K - A	2x4	DRY No.2
K - H	2x4	DRY No.2
H - F	2x4	DRY No.2
ALL WEBS EXCEPT	2x3	DRY No.2

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMVW4	MT20	4.0	4.0	1.75	1.25
B	TTV4p	MT20	3.0	4.0		
C	TTVW4-m	MT20	4.0	6.0	2.00	2.00
D	TMVW4	MT20	2.0	4.0		
E	TMVW4	MT20	4.0	4.0	1.75	1.75
F	BMV1+p	MT20	2.0	4.0		
G	BMVW4	MT20	4.0	6.0	1.50	1.50
H	BS-t	MT20	3.0	4.0		
I	BMVW4	MT20	2.0	4.0		
J	BMVW4	MT20	4.0	6.0	1.75	3.00
K	BMV1+p	MT20	2.0	4.0		

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG
	VERT	HORZ	DOWN	HORZ		
F	1136	0	1136	0	MECHANICAL	MECHANICAL
K	1136	0	1136	0	MECHANICAL	MECHANICAL

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

UNFACTORED REACTIONS

JT	COMBINED	MAX./MIN. COMPONENT REACTIONS					
		SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
F	794	574 / 0	0 / 0	0 / 0	0 / 0	219 / 0	0 / 0
K	794	574 / 0	0 / 0	0 / 0	0 / 0	219 / 0	0 / 0

BRACING
 TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.09 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)	MEMB.
FR-TO				FR-TO			
A-B	-445 / 0	-119.4	0.22 (1)	J-C	-756 / 0	6.25	J-C
B-C	-445 / 0	-119.4	0.28 (1)	I-C	0 / 81	6.25	I-C
C-D	-749 / 0	-119.4	0.47 (1)	G-D	-96 / 0	6.09	G-D
D-E	-749 / 0	-119.4	0.47 (1)	G-D	-708 / 0	6.09	G-D
F-E	-1099 / 0	0.0	0.74 (1)	G-E	0 / 1154	7.46	G-E
K-A	-1111 / 0	0.0	0.87 (1)	A-J	0 / 821	7.43	A-J
				J-B	-16 / 52	10.00	J-B
K-J	0 / 0	-18.2	-18.2 0.05 (4)				
J-I	0 / 809	-18.2	-18.2 0.16 (1)				
I-H	0 / 810	-18.2	-18.2 0.18 (1)				
H-G	0 / 810	-18.2	-18.2 0.18 (1)				
G-F	0 / 0	-18.2	-18.2 0.10 (4)				

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

LOADING IN ALL FLAT SECTIONS BASED ON A SLOPE OF 2.00/12 MINIMUM

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

THIS DESIGN COMPLIES WITH:
 - PART 9 OF CBC 2018, NBC-2019AE
 - PART 9 OF OBC 2012 (2019 AMENDMENT)
 - CSA 086-14
 - TPC 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 (0.55")
 CALCULATED VERT. DEFL.(LL) = L/999 (0.03")
 ALLOWABLE DEFL.(TL) = L/360 (0.55")
 CALCULATED VERT. DEFL.(TL) = L/999 (0.05")

CSI: TC=0.87/0.97 (A<K1), BC=0.18/0.97 (G-I), WB=0.64/0.97 (C-J1), SSI=0.28/1.00 (D-E: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

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES

PLATE GRIP(DRY) (PS)	SHEAR (PL)	SECTION (PL)
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= 0.86 (A) (INPUT = 0.90)
 JSI METAL= 0.30 (A) (INPUT = 1.00)



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.



CORPORATION OF THE CITY OF OSHAWA
 JOB NAME TRUSS NAME

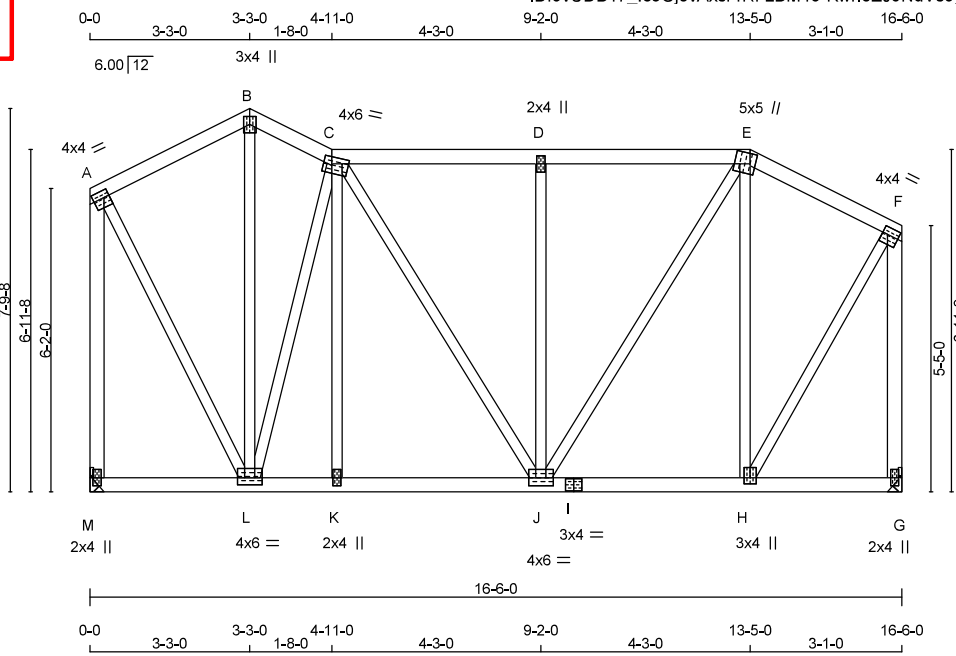
NE0723-039 T14
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 OCT 31 2023

PER: *C. Masri*
 CHIEF BUILDING OFFICIAL

QUANTITY 1 PLY JOB DESC. TRUSS DESC.

MHP 23031

Version 8.630 S Mar 22 2023 MiTek Industries, Inc. Fri Jul 7 15:27:41 2023 Page 1
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Scale = 1:46.8

TOTAL WEIGHT = 100 lb

LUMBER

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

SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMVW-t	MT20	4.0	4.0	1.75	1.25
B	TTW+p	MT20	3.0	4.0		
C	TTWWW+m	MT20	4.0	6.0	1.75	2.00
D	TMVW+w	MT20	2.0	4.0		
E	TTWWW+m	MT20	5.0	5.0	2.50	1.25
F	TMVW-t	MT20	4.0	4.0	1.75	1.25
G	BMV1+p	MT20	2.0	4.0		
H	BMVW+t	MT20	3.0	4.0	1.50	1.50
I	BS-t	MT20	3.0	4.0		
J	BMVWWW-t	MT20	4.0	6.0		
K	BMVW+w	MT20	2.0	4.0		
L	BMVWWW-t	MT20	4.0	6.0	1.75	3.00
M	BMV1+p	MT20	2.0	4.0		

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

FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT VERT	HORZ	DOWN	HORZ
M	1136	0	1136
G	1136	0	1136

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

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
M	794	574 / 0	0 / 0	0 / 0	0 / 0	219 / 0	0 / 0
G	794	574 / 0	0 / 0	0 / 0	0 / 0	219 / 0	0 / 0

BRACING
 TOP CHORD TO BE SHEATHED OR MAX. PURLUN 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)	VERT. LOAD (PLF)	MAX. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)	UNBRAC LENGTH
FR-TO				FR-TO			
A-B	-445 / 0	-119.4	-119.4 0.22 (1)	6.25	L-B	0 / 103	0.02 (4)
B-C	-444 / 0	-119.4	-119.4 0.06 (1)	6.25	L-C	-787 / 0	0.70 (1)
C-D	-735 / 0	-119.4	-119.4 0.36 (1)	6.25	K-C	0 / 54	0.02 (4)
D-E	-735 / 0	-119.4	-119.4 0.36 (1)	6.25	C-J	0 / 270	0.06 (1)
E-F	-495 / 0	-119.4	-119.4 0.20 (1)	6.25	J-D	-624 / 0	0.52 (1)
M-A	-1111 / 0	0.0	0.0 0.87 (1)	7.43	J-E	0 / 563	0.13 (1)
G-F	-1115 / 0	0.0	0.0 0.61 (1)	7.42	H-E	-632 / 0	0.52 (1)
					A-L	0 / 821	0.18 (1)
					H-F	0 / 835	0.19 (1)
M-L	0 / 0	-18.2	-18.2 0.04 (4)	10.00			
L-K	0 / 589	-18.2	-18.2 0.12 (1)	10.00			
K-J	0 / 590	-18.2	-18.2 0.13 (1)	10.00			
J-I	0 / 432	-18.2	-18.2 0.10 (1)	10.00			
I-H	0 / 432	-18.2	-18.2 0.10 (1)	10.00			
H-G	0 / 0	-18.2	-18.2 0.05 (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

LOADING IN ALL FLAT SECTIONS BASED ON A SLOPE OF 2.00/12 MINIMUM

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

THIS DESIGN COMPLIES WITH:
 - PART 9 OF CBC 2018, NBC-2019AE
 - PART 9 OF OBC 2012 (2019 AMENDMENT)
 - CSA 086-14
 - TPC 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 (0.55")
 CALCULATED VERT. DEFL.(LL) = L/999 (0.03")
 ALLOWABLE DEFL.(TL) = L/360 (0.55")
 CALCULATED VERT. DEFL.(TL) = L/999 (0.05")

CSI: TC=0.87/0.97 (A-M:1) , BC=0.13/0.97 (J-K:1) , WB=0.70/0.97 (C-L:1) , SSI=0.24/1.00 (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 (PL)	SECTION (PL)
MT20	650	371	1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.87 (F) (INPUT = 0.90)
 JSI METAL= 0.30 (F) (INPUT = 1.00)



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.

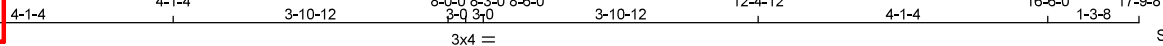


NE0723-039 T115
 OF PERMIT PLANS
 OCT 31 2023

1 MHP 23031

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PER: *[Signature]*
 CHIEF BUILDING OFFICIAL



Scale = 1:32.6

LUMBER

N. L. G. A. RULES

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMVW4	MT20	4.0	5.0	1.75	2.25
B	TMVW4	MT20	3.0	4.0	1.50	1.75
C	TTV4p	MT20	3.0	4.0	1.25	2.00
D	TMVW4	MT20	3.0	4.0	1.50	1.75
E	TMVW4	MT20	4.0	5.0	1.75	2.25
G	BMV1+p	MT20	2.0	4.0		
H	BMVW4	MT20	4.0	4.0	1.75	1.50
I	BS-t	MT20	3.0	4.0		
J	BMVW4	MT20	3.0	8.0		
K	BMVW4	MT20	4.0	4.0	1.75	1.50
L	BMV1+p	MT20	2.0	4.0		

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

BEARINGS

JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
L	1136	0	1136	0	0	MECHANICAL	
G	1298	0	1298	0	0	5-8	1-8

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

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
L	794	574 / 0	0 / 0	0 / 0	0 / 0	219 / 0	0 / 0
G	905	669 / 0	0 / 0	0 / 0	0 / 0	236 / 0	0 / 0

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.15 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)

MEMB.	MAX. FACTORED FORCE (LBS)	CHORDS		WEBS				
		VERT. LOAD (PLF)	MAX. CSI (LC)	MEMB. FORCE (LBS)	MAX. FACTORED FORCE (LBS)			
FR-TO		FROM	TO	LENGTH	FR-TO			
A-B	-1414 / 0	-119.4	-119.4	0.27 (1)	5.15	K-B	-196 / 20	0.04 (1)
B-C	-1083 / 0	-119.4	-119.4	0.26 (1)	5.72	B-J	-417 / 0	0.18 (1)
C-D	-1083 / 0	-119.4	-119.4	0.26 (1)	5.72	J-D	-417 / 0	0.18 (1)
D-E	-1414 / 0	-119.4	-119.4	0.27 (1)	5.15	H-D	-196 / 20	0.04 (1)
E-F	0 / 36	-119.4	-119.4	0.16 (1)	10.00	A-K	0 / 1315	0.30 (1)
L-A	-1101 / 0	0.0	0.0	0.11 (1)	7.45	H-E	0 / 1315	0.30 (1)
G-E	-1263 / 0	0.0	0.0	0.13 (1)	7.08	J-C	0 / 563	0.13 (1)
L-K	0 / 0	-18.2	-18.2	0.06 (4)	10.00			
K-J	0 / 1287	-18.2	-18.2	0.25 (1)	10.00			
J-I	0 / 1287	-18.2	-18.2	0.25 (1)	10.00			
I-H	0 / 1287	-18.2	-18.2	0.25 (1)	10.00			
H-G	0 / 0	-18.2	-18.2	0.06 (4)	10.00			

SPECIFIED CRITERIA

DESIGNED 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 (0.55")
 CALCULATED VERT. DEFL.(LL) = L/999 (0.04")
 ALLOWABLE DEFL.(TL) = L/360 (0.55")
 CALCULATED VERT. DEFL.(TL) = L/999 (0.06")

CSI: TC=0.27/0.97 (A-B:1) , BC=0.25/0.97 (H-K:1) , WB=0.30/0.97 (A-K:1) , SSI=0.21/1.00 (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)	SHEAR (PSI)	SECTION (PLI)
MT20	650	371	1747
	MAX	MIN	MAX
	MIN	MAX	MIN
	1747	788	1987
	1873		

PLATE PLACEMENT TOL. = 0.250 inches

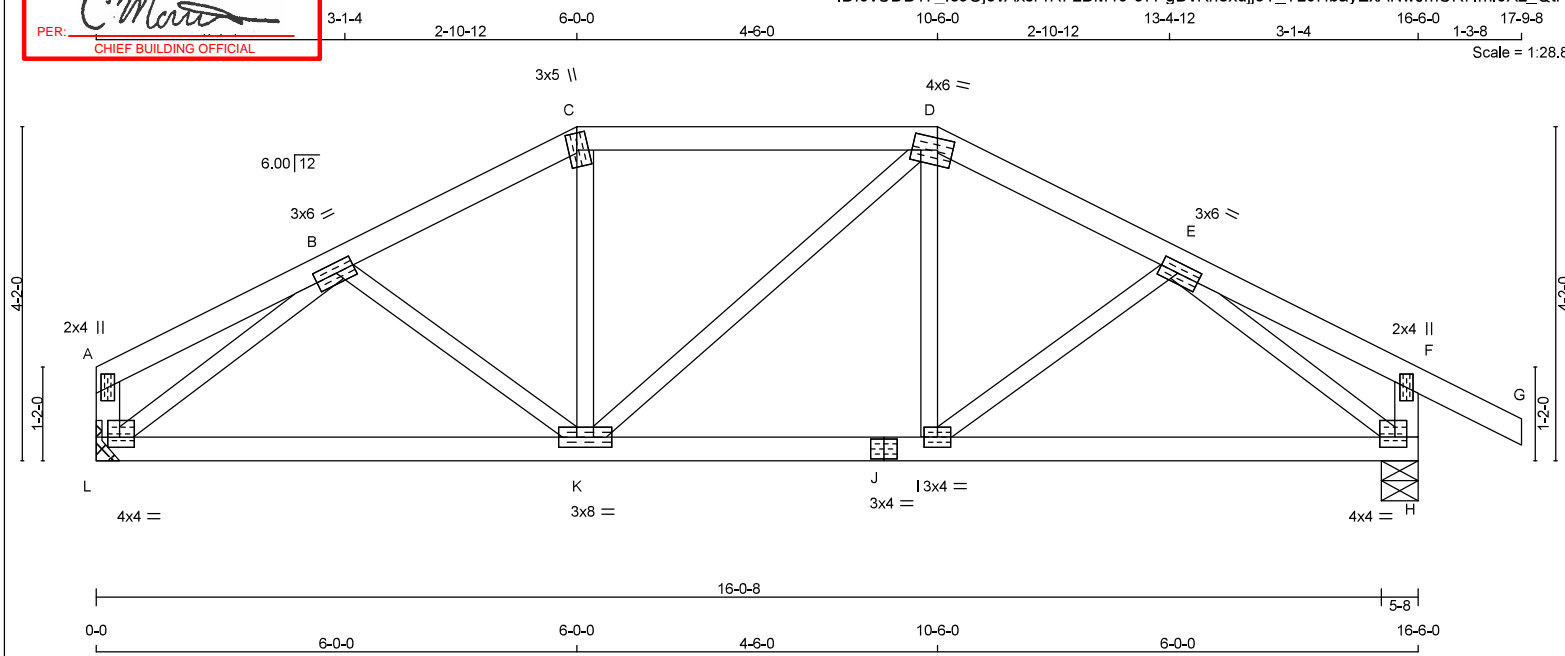
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.86 (A) (INPUT = 0.90)
 JSI METAL= 0.44 (H) (INPUT = 1.00)



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.





TOTAL WEIGHT = 65 lb

LUMBER

N. L. G. A. RULES

CHORDS	SIZE	LUMBER
A - C	2x4	DRY No.2
C - D	2x4	DRY No.2
D - G	2x4	DRY No.2
L - A	2x4	DRY No.2
H - F	2x4	DRY No.2
L - J	2x4	DRY No.2
J - H	2x4	DRY No.2

ALL WEBS EXCEPT

ALL WEBS EXCEPT	2x3	DRY No.2
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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+H	MT20	3.0	6.0	1.50	2.75
C	TTW+m	MT20	3.0	5.0	2.50	1.25
D	TTWW+m	MT20	4.0	6.0	1.75	2.25
E	TMWW+H	MT20	3.0	6.0	1.50	2.75
F	TMV+P	MT20	2.0	4.0		
H	BMVW1-t	MT20	4.0	4.0	1.50	1.75
I	BMWW+H	MT20	3.0	4.0		
J	BS-t	MT20	3.0	4.0		
K	BMWWWW+H	MT20	3.0	8.0		
L	BMVW1-t	MT20	4.0	4.0	1.50	1.75

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

BEARINGS

JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
L	1136	0	1136	0	0	MECHANICAL	
H	1298	0	1298	0	0	5-8	1-8

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

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
L	794	574 / 0	0 / 0	0 / 0	0 / 0	219 / 0	0 / 0
H	905	669 / 0	0 / 0	0 / 0	0 / 0	236 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.52 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. UNI-BRAC. CS1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNI-BRAC. CS1 (LC)	MEMB.
FR-TO		FROM	TO	FR-TO		FR-TO	
A-B	0 / 16	-119.4	-119.4	0.15 (1)	10.00	B-K	-87 / 26
B-C	-1281 / 0	-119.4	-119.4	0.13 (1)	5.54	K-C	0 / 154
C-D	-1135 / 0	-119.4	-119.4	0.33 (1)	5.52	K-D	0 / 0
D-E	-1281 / 0	-119.4	-119.4	0.13 (1)	5.54	I-D	0 / 154
E-F	0 / 16	-119.4	-119.4	0.15 (1)	10.00	I-E	-87 / 26
F-G	0 / 36	-119.4	-119.4	0.16 (1)	10.00	L-B	-1528 / 0
L-A	-141 / 0	0.0	0.0	0.01 (1)	7.81	E-H	-1528 / 0
H-F	-303 / 0	0.0	0.0	0.03 (1)	7.81		
L-K	0 / 1200	-18.2	-18.2	0.28 (1)	10.00		
K-J	0 / 1134	-18.2	-18.2	0.24 (1)	10.00		
J-I	0 / 1134	-18.2	-18.2	0.24 (1)	10.00		
I-H	0 / 1200	-18.2	-18.2	0.28 (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

LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM

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
- TPC 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 (0.55")
CALCULATED VERT. DEFL.(LL) = L/999 (0.04")
ALLOWABLE DEFL.(TL)= L/360 (0.55")
CALCULATED VERT. DEFL.(TL) = L/999 (0.07")

CSI: TC=0.33/0.97 (C-D-1), BC=0.28/0.97 (H-1), WB=0.38/0.97 (B-L-1), SS=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 (PL) (PL)
(PS) (PL)
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= 0.88 (L) (INPUT = 0.90)
JSI METAL = 0.41 (L) (INPUT = 1.00)



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.



CORPORATION OF THE CITY OF OSHAWA
 JOB NAME: TRUE COPY TRUSS NAME: T17

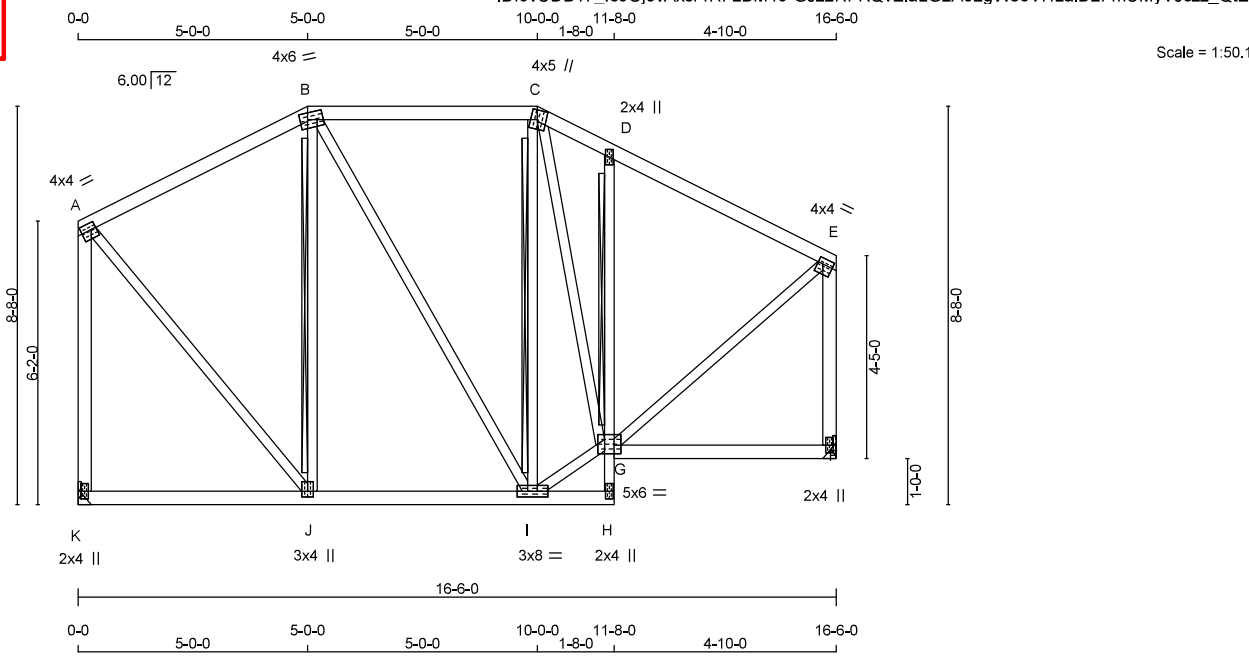
NE0723-039
 OF PERMIT PLANS
 OCT 31 2023

PER: *[Signature]*
 CHIEF BUILDING OFFICIAL

QUANTITY: 1 PLY: TRUSS DESC.:

MHP 23031

Version 8.630 S Mar 22 2023 MiTek Industries, Inc. Fri Jul 7 15:27:43 2023 Page 1
 ID:5VUDB17_Ic6Oj0vAxsr4RFzBM45-GJz2RFKQvElaLG2A02gW8oVHLaiD2FmUMyVJczz_QTE



TOTAL WEIGHT = 95 lb

LUMBER
 N. L. G. A. RULES
 CHORDS SIZE LUMBER

A - B	2x4	DRY	No.2
B - C	2x4	DRY	No.2
C - E	2x4	DRY	No.2
K - A	2x4	DRY	No.2
F - E	2x4	DRY	No.2
H - D	2x4	DRY	No.2
H - D	2x3	DRY	No.2
G - F	2x4	DRY	No.2
ALL WEBS EXCEPT	2x3	DRY	No.2

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMVW4	MT20	4.0	4.0	1.75	1.25
B	TTVW+m	MT20	4.0	6.0	1.75	2.00
C	TTVW+m	MT20	4.0	5.0	2.50	1.75
D	TMV+p	MT20	2.0	4.0		
E	TMVW4	MT20	4.0	4.0	1.50	1.25
F	BMV1+p	MT20	2.0	4.0		
G	BMVWWW4	MT20	5.0	6.0	2.25	1.75
H	BMV+p	MT20	2.0	4.0		
I	BMVWWW4	MT20	3.0	8.0		
J	BMVWW+t	MT20	3.0	4.0	1.50	1.50
K	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		
K	1136	0	1136	0	0	MECHANICAL
F	1136	0	1136	0	0	MECHANICAL

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

UNFACTORED REACTIONS

JT	COMBINED	MAX./MIN. COMPONENT REACTIONS					
		SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
K	794	574 / 0	0 / 0	0 / 0	0 / 0	219 / 0	0 / 0
F	794	574 / 0	0 / 0	0 / 0	0 / 0	219 / 0	0 / 0

BRACING
 TOP CHORD TO BE SHEATHED OR MAX. PURLUN SPACING = 6.25 FT.
 MAX. UNBRACED BOTTOM CHORD LENGTH = 7.81 FT. OR RIGID CEILING DIRECTLY APPLIED.
 ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.
 2x4 DRY SPF No.2 T-BRACE AT D-G, B-J, C-I
 FASTEN T AND I-BRACES TO NARROW EDGE OF WEB WITH ONE ROW PER PLY OF 3" COMMON WIRE NAILS @ 6" O.C. WITH 3" MINIMUM END DISTANCE. BRACE MUST COVER 90% OF WEB LENGTH.
 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)

MEMB.	MAX. FACTORED FORCE (LBS)	CHORDS			WEBS			
		FACTORED VERT. LOAD (PLF)	LC1 MAX	LC2 MAX	MEMB. MAX. FORCE (LBS)	FACTORED MAX. FORCE (LBS)	LC1 MAX	
FR-TO		FROM	TO	LENGTH	FR-TO			
A-B	-542 / 0	-119.4	-119.4	0.39 (1)	6.25	J-B	-455 / 0	0.25 (1)
B-C	-538 / 0	-119.4	-119.4	0.38 (1)	6.25	B-I	0 / 117	0.03 (1)
C-D	-775 / 0	-119.4	-119.4	0.26 (1)	6.25	I-C	-345 / 0	0.19 (1)
D-E	-691 / 0	-119.4	-119.4	0.33 (1)	6.25	I-G	0 / 623	0.14 (1)
K-A	-1098 / 0	0.0	0.0	0.86 (1)	7.46	C-G	0 / 429	0.10 (1)
F-E	-1091 / 0	0.0	0.0	0.36 (1)	7.48	A-J	0 / 738	0.17 (1)
						G-E	0 / 830	0.19 (1)
K-J	0 / 0	-18.2	-18.2	0.11 (4)	10.00			
J-I	0 / 479	-18.2	-18.2	0.15 (4)	10.00			
I-H	0 / 8	-18.2	-18.2	0.06 (4)	10.00			
H-G	-4 / 1	0.0	0.0	0.02 (1)	10.00			
G-D	-590 / 0	0.0	0.0	0.07 (1)	7.81			
G-F	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
 LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM
 THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2015

THIS DESIGN COMPLIES WITH:
 - PART 9 OF CBC 2018, NBC-2019AE
 - PART 9 OF OBC 2012 (2019 AMENDMENT)
 - CSA 086-14
 - TPC 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 (0.55")
 CALCULATED VERT. DEFL.(LL) = L/999 (0.02")
 ALLOWABLE DEFL.(TL) = L/360 (0.55")
 CALCULATED VERT. DEFL.(TL) = L/999 (0.05")

CSI: TC=0.86/0.97 (A-K:1), BC=0.15/0.97 (I-J:4), WB=0.25/0.97 (B-J:1), SSI=0.24/1.00 (D-E: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

AUTOSOLVE LEFT HEEL ONLY
 TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

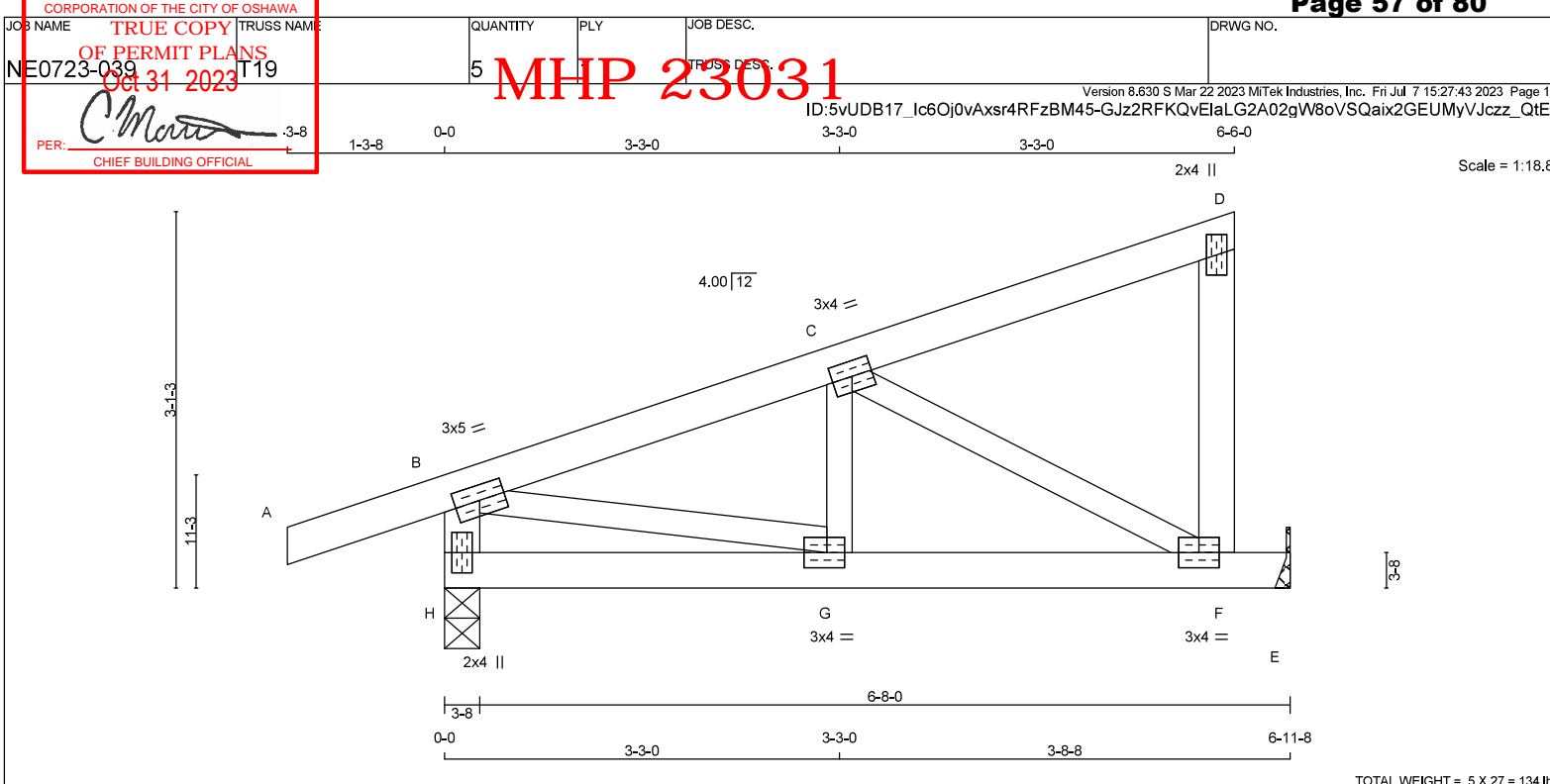
NAIL VALUES
 PLATE GRIP(DRY) SHEAR SECTION (PSD) (PLI) (PLI)
 MAX MIN MAX MIN MAX MIN
 MT20 650 371 1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches
 PLATE ROTATION TOL. = 5.0 Deg.
 JSI GRIP= 0.81 (J) (INPUT = 0.90)
 JSI METAL= 0.28 (J) (INPUT = 1.00)



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.





TOTAL WEIGHT = 5 X 27 = 134 lb

LUMBER
N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY No.2	SPF
F - D	2x4	DRY No.2	SPF
H - B	2x4	DRY No.2	SPF
H - E	2x4	DRY No.2	SPF
ALL WEBS EXCEPT	2x3	DRY No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B	TMVW4 MT20	3.0	5.0		
C	TMVW4 MT20	3.0	4.0		
D	TMV+p MT20	2.0	4.0		
F	BMVW4 MT20	3.0	4.0	1.50	1.75
H	BMV1+p MT20	2.0	4.0		

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

BEARINGS

JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	REQD
H	637	0	637	0	0	3-8	1-8
E	426	0	426	0	0	MECHANICAL	

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

UNFACTORED REACTIONS

JT	1ST LCASE	MAX. MIN. COMPONENT REACTIONS
H	COMBINED	SNOW LIVE PERM. LIVE WIND DEAD SOIL
H	443	334 / 0 0 / 0 0 / 0 0 / 0 108 / 0 0 / 0
E	299	211 / 0 0 / 0 0 / 0 0 / 0 87 / 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)

MEMB.	CHORDS				WEBS			
	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX. CSI (LC)	MAX. UNBRAC. LENGTH FR-TO	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)	
A-B	0 / 25	-119.4	-119.4	0.15 (1)	10.00	G-C	0 / 73	0.03 (4)
B-C	-610 / 0	-119.4	-119.4	0.15 (1)	6.25	C-F	-669 / 0	0.15 (1)
C-D	-14 / 0	-119.4	-119.4	0.15 (1)	6.25	B-G	0 / 603	0.14 (1)
F-D	-151 / 0	0.0	0.0	0.02 (1)	7.81			
H-B	-623 / 0	0.0	0.0	0.06 (1)	7.81			
H-G	0 / 0	-18.2	-18.2	0.07 (4)	10.00			
G-F	0 / 592	-18.2	-18.2	0.36 (1)	10.00			
F-E	0 / 0	-18.2	-18.2	0.26 (1)	10.00			

SPECIFIED CRITERIA

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

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 (0.23")
CALCULATED VERT. DEFL.(LL) = L/999 (0.03")
ALLOWABLE DEFL.(TL) = L/360 (0.23")
CALCULATED VERT. DEFL.(TL) = L/999 (0.05")
CSI: TC=0.15/0.97 (B-C:1) , BC=0.36/0.97 (F-G:1) , WB=0.15/0.97 (C-F:1) , SSI=0.33/1.00 (E-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

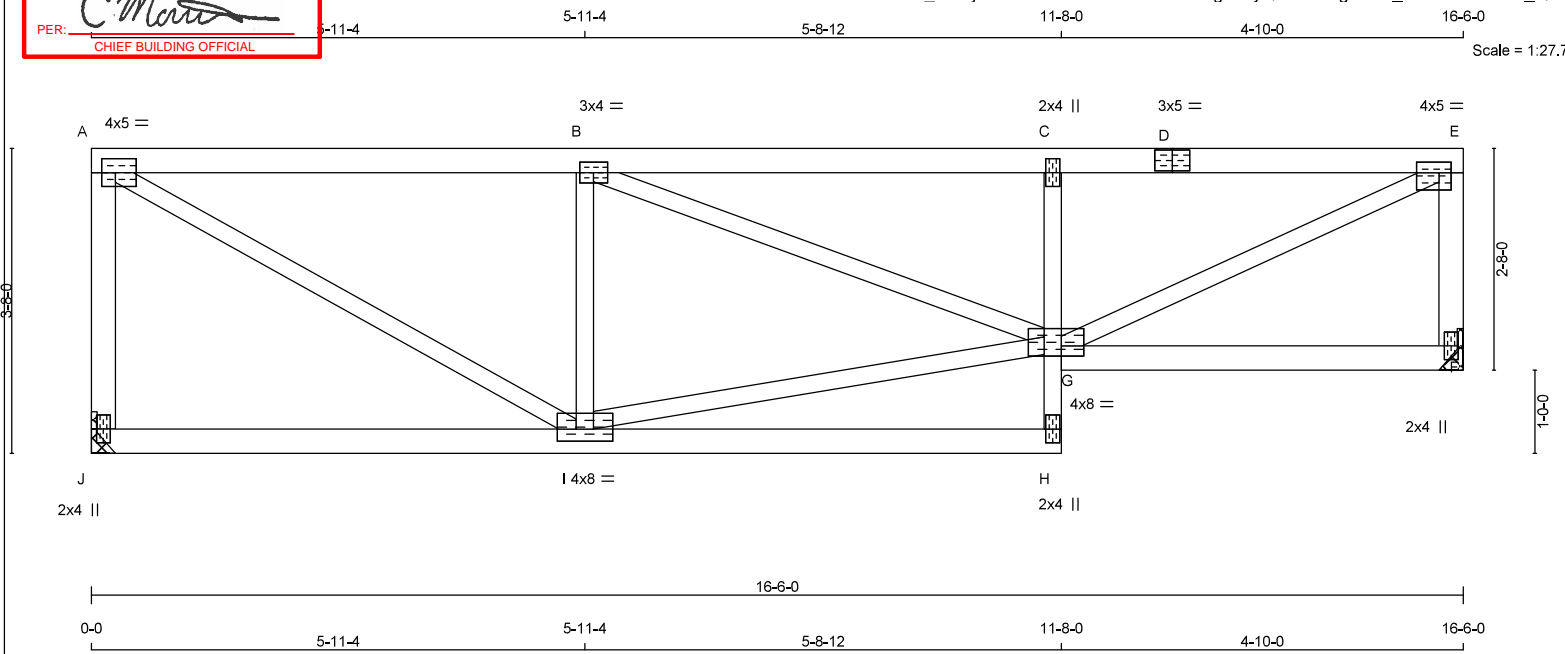
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.
NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MT20 650 371 1747 788 1987 1873
PLATE PLACEMENT TOL. = 0.250 inches
PLATE ROTATION TOL. = 5.0 Deg.
JSI GRIP= 0.86 (F) (INPUT = 0.90)
JSI METAL= 0.21 (B) (INPUT = 1.00)



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.



PER: *[Signature]*
 CHIEF BUILDING OFFICIAL



TOTAL WEIGHT = 67 lb

LUMBER

N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
J - A	2x4	DRY No.2	SPF
A - D	2x4	DRY No.2	SPF
D - E	2x4	DRY No.2	SPF
F - E	2x4	DRY No.2	SPF
J - H	2x4	DRY No.2	SPF
H - C	2x3	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	TMVW-H	MT20	4.0	5.0	2.00	2.00
B	TMVW-H	MT20	3.0	4.0		
C	TMV+p	MT20	2.0	4.0		
D	TS+	MT20	3.0	5.0		
E	TMVW-H	MT20	4.0	5.0	1.50	1.75
F	BMV1+p	MT20	2.0	4.0		
G	BMVWWW-H	MT20	4.0	8.0	1.50	3.25
H	BMV+p	MT20	2.0	4.0		
I	BMVWWW-H	MT20	4.0	8.0	1.75	4.00
J	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		
J	1136	0	1136	0	MECHANICAL	MECHANICAL
F	1136	0	1136	0	MECHANICAL	MECHANICAL

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

UNFACTORED REACTIONS

JT	COMBINED	MAX./MIN. COMPONENT REACTIONS						
		1ST LCASE	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
J	794	574 / 0	0 / 0	0 / 0	0 / 0	0 / 0	219 / 0	0 / 0
F	794	574 / 0	0 / 0	0 / 0	0 / 0	0 / 0	219 / 0	0 / 0

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLUN SPACING = 4.04 FT.
 MAX. UNBRACED BOTTOM CHORD LENGTH = 7.77 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 LC1 CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
FR-TO					FR-TO		
J-A	-1093 / 0	0.0	0.0 0.23 (1)	7.48	A-1	0 / 1612	0.36 (1)
A-B	-1395 / 0	-119.4	-119.4 0.65 (1)	4.49	B-1	-924 / 0	0.20 (1)
B-C	-1754 / 0	-119.4	-119.4 0.68 (1)	4.04	C-1	0 / 1405	0.32 (1)
C-D	-1771 / 0	-119.4	-119.4 0.46 (1)	4.43	D-1	0 / 358	0.08 (1)
D-E	-1771 / 0	-119.4	-119.4 0.46 (1)	4.43	E-1	0 / 1966	0.44 (1)
F-E	-1091 / 0	0.0	0.0 0.15 (1)	7.48			
J-I	0 / 0	-18.2	-18.2 0.17 (4)	10.00			
I-H	0 / 41	-18.2	-18.2 0.17 (4)	10.00			
H-G	0 / 45	0.0	0.0 0.12 (1)	10.00			
G-C	-663 / 0	0.0	0.0 0.13 (1)	7.77			
G-F	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

LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM

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 (0.55")
 CALCULATED VERT. DEFL.(LL) = L/999 (0.07")
 ALLOWABLE DEFL.(TL)= L/360 (0.55")
 CALCULATED VERT. DEFL.(TL) = L/999 (0.13")

CSI: TC=0.69/0.97 (B-C:1) , BC=0.17/0.97 (H:4) ,
 WB=0.44/0.97 (E-G:1) , SSI=0.33/1.00 (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 (PL) (PL)
 (PS) (PL) (PL)
 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.

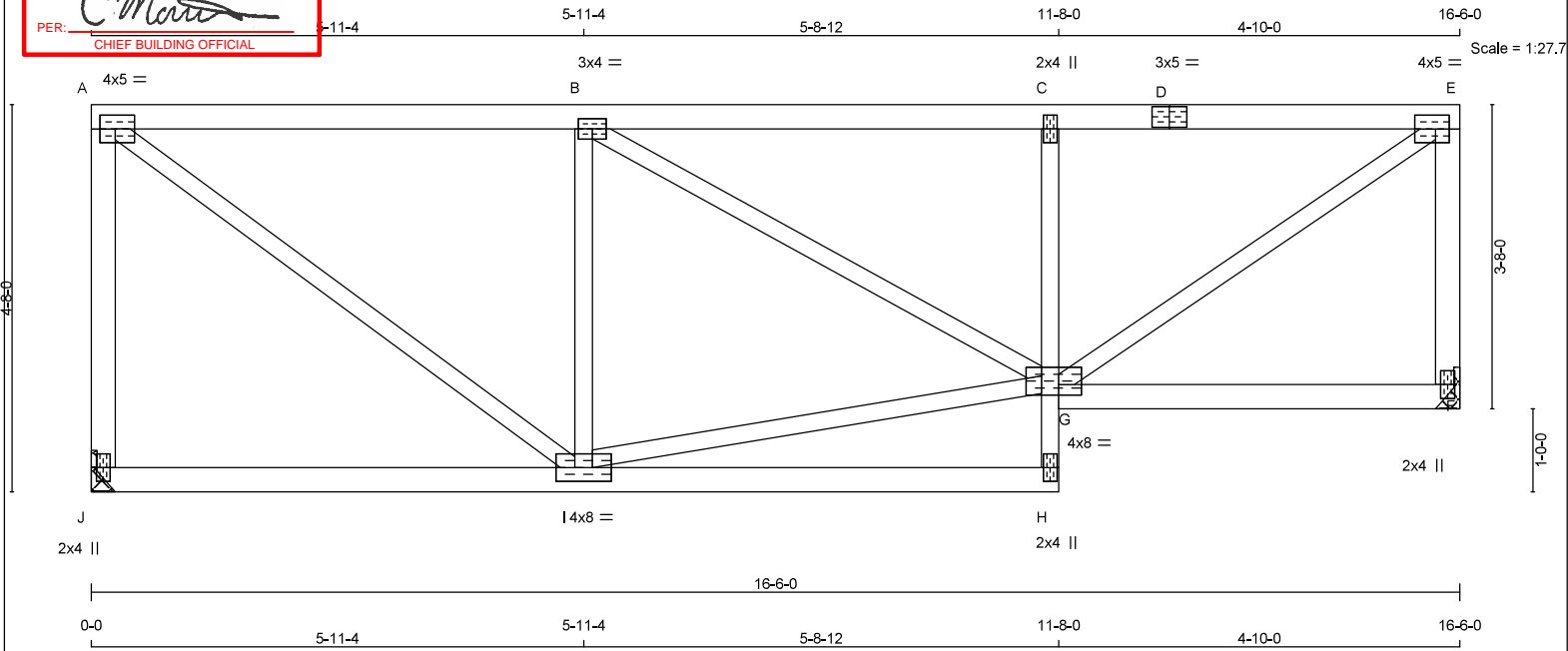
JSI GRIP= 0.90 (I) (INPUT = 0.90)
 JSI METAL = 0.51 (E) (INPUT = 1.00)



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.



PER: *[Signature]*
 CHIEF BUILDING OFFICIAL



TOTAL WEIGHT = 72 lb

LUMBER

N. L. G. A. RULES

CHORDS	SIZE	LUMBER
J - A	2x4	DRY No.2
A - D	2x4	DRY No.2
D - E	2x4	DRY No.2
F - E	2x4	DRY No.2
J - H	2x4	DRY No.2
H - C	2x3	DRY No.2
G - F	2x4	DRY No.2
ALL WEBS	2x3	DRY No.2

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMVW-H	MT20	4.0	5.0	2.00	2.25
B	TMVW-H	MT20	3.0	4.0		
C	TMV+p	MT20	2.0	4.0		
D	TS4	MT20	3.0	5.0		
E	TMVW-H	MT20	4.0	5.0	2.00	2.00
F	BMV1+p	MT20	2.0	4.0		
G	BMVWWW-H	MT20	4.0	8.0	1.50	3.25
H	BMV+p	MT20	2.0	4.0		
I	BMVWWW-H	MT20	4.0	8.0		
J	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		
J	1136	0	1136	0	MECHANICAL	MECHANICAL
F	1136	0	1136	0	MECHANICAL	MECHANICAL

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

UNFACTORED REACTIONS

JT	COMBINED	SNOW		LIVE		PERM.LIVE	WIND	DEAD	SOIL
		1ST LCASE	MAX.	MIN.	COMPONENT				
J	794	574	0	0	0	0	0	219	0
F	794	574	0	0	0	0	0	219	0

BRACING
 TOP CHORD TO BE SHEATHED OR MAX. PURLUN SPACING = 4.70 FT.
 MAX. UNBRACED BOTTOM CHORD LENGTH = 7.81 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 LC1 CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
FR-TO					FR-TO		
J-A	-1093	0	0.0	0.38 (1)	A-1	0/1350	0.30 (1)
A-B	-1081	0	-119.4	0.63 (1)	B-1	-870	0.28 (1)
B-C	-1244	0	-119.4	0.64 (1)	C-1	0/1093	0.25 (1)
C-D	-1251	0	-119.4	0.44 (1)	D-1	0/169	0.04 (1)
D-E	-1251	0	-119.4	0.44 (1)	E-1	0/1515	0.34 (1)
F-E	-1091	0	0.0	0.23 (1)			
J-I	0/0	-18.2	-18.2	0.17 (4)			10.00
I-H	0/22	-18.2	-18.2	0.17 (4)			10.00
H-G	0/44	0.0	0.0	0.07 (1)			10.00
G-C	-667	0	0.0	0.11 (1)			7.81
G-F	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

LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM

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 (0.55")
 CALCULATED VERT. DEFL.(LL) = L/999 (0.04")
 ALLOWABLE DEFL.(TL)= L/360 (0.55")
 CALCULATED VERT. DEFL.(TL) = L/999 (0.09")

CSI: TC=0.64/0.97 (B-C:1) , BC=0.17/0.97 (H:4) , WB=0.34/0.97 (E-G:1) , SS=0.33/1.00 (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 (PL) (PL)
 (PS) (PL) (PL)
 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= 0.85 (E) (INPUT = 0.90)
 JSI METAL = 0.39 (G) (INPUT = 1.00)



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.



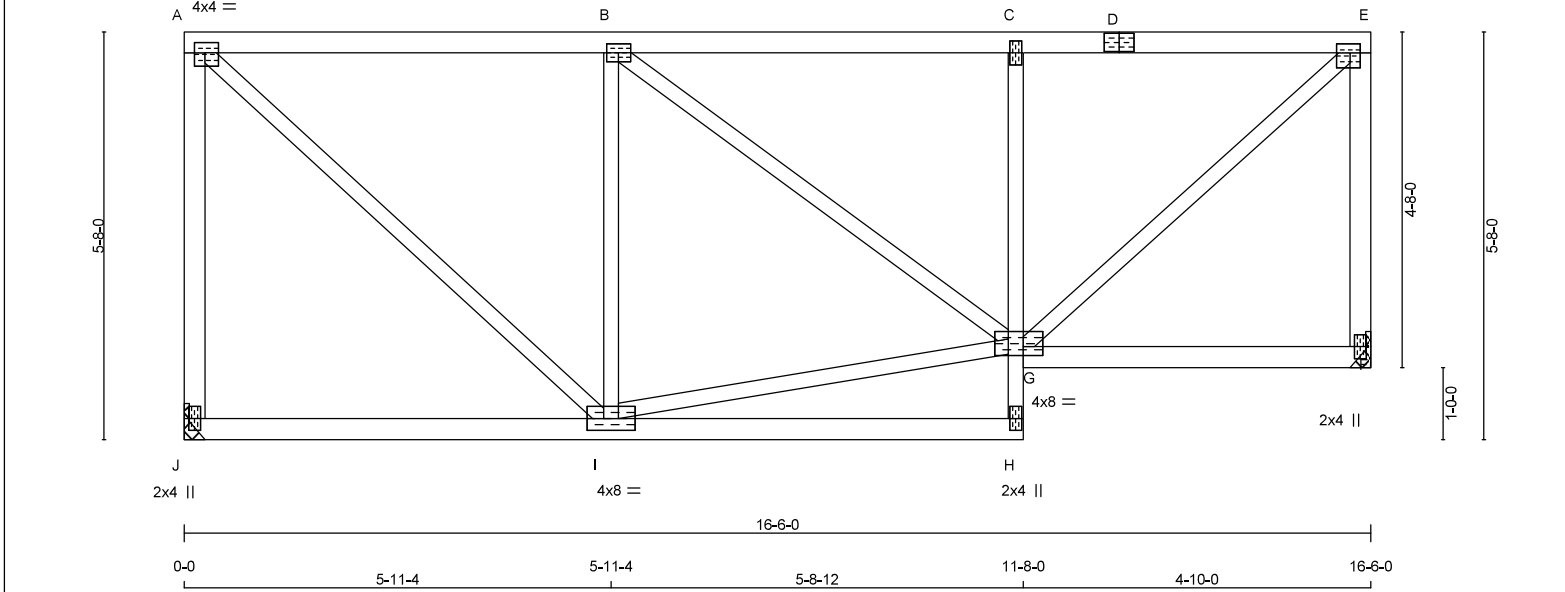
CORPORATION OF THE CITY OF OSHAWA
 JOB NAME: TRUE COPY TRUSS NAME: T24

NE0723-039
 Oct 31 2023

QUANTITY: 1
 PLY: MIP
 JOB DESC.: 23031

Version 8.630 S Mar 22 2023 MiTek Industries, Inc. Fri Jul 7 15:27:45 2023 Page 1
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PER: *[Signature]*
 CHIEF BUILDING OFFICIAL



TOTAL WEIGHT = 77 lb

LUMBER

N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
J - A	2x4	DRY No.2	SPF
A - D	2x4	DRY No.2	SPF
D - E	2x4	DRY No.2	SPF
F - E	2x4	DRY No.2	SPF
J - H	2x4	DRY No.2	SPF
H - C	2x3	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	TMVW-H	MT20	4.0	4.0	1.75	1.75
B	TMVW-H	MT20	3.0	4.0		
C	TMV+p	MT20	2.0	4.0		
D	TS4	MT20	3.0	5.0		
E	TMVW-H	MT20	4.0	4.0	1.50	1.75
F	BMV1+p	MT20	2.0	4.0		
G	BMVWWW-H	MT20	4.0	8.0	1.50	3.25
H	BMV+p	MT20	2.0	4.0		
I	BMVWWW-H	MT20	4.0	8.0		
J	BMV1+p	MT20	2.0	4.0		

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

DESIGNER BEARINGS

JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
J	1136	0	1136	0	0	MECHANICAL	
F	1136	0	1136	0	0	MECHANICAL	

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

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
J	794	574 / 0	0 / 0	0 / 0	0 / 0	219 / 0	0 / 0
F	794	574 / 0	0 / 0	0 / 0	0 / 0	219 / 0	0 / 0

BRACING
 TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.22 FT.
 MAX. UNBRACED BOTTOM CHORD LENGTH = 7.81 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 LC1 (LC)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX LC1 (LC)
FR-TO		FROM	TO		FR-TO		
J-A	-1094 / 0	0.0	0.0	0.84 (1)	7.48	A-1	0 / 1197
A-B	-882 / 0	-119.4	-119.4	0.62 (1)	5.41	I-B	-835 / 0
B-C	-962 / 0	-119.4	-119.4	0.62 (1)	5.22	I-G	0 / 894
C-D	-966 / 0	-119.4	-119.4	0.43 (1)	5.63	B-G	0 / 86
D-E	-966 / 0	-119.4	-119.4	0.43 (1)	5.63	G-E	0 / 1290
F-E	-1091 / 0	0.0	0.0	0.38 (1)	7.48		
J-I	0 / 0	-18.2	-18.2	0.17 (4)	10.00		
I-H	0 / 14	-18.2	-18.2	0.17 (4)	10.00		
H-G	0 / 44	0.0	0.0	0.05 (1)	10.00		
G-C	-669 / 0	0.0	0.0	0.19 (1)	7.81		
G-F	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

LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM

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
 - TPC 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 (0.55")
 CALCULATED VERT. DEFL.(LL) = L/999 (0.03")
 ALLOWABLE DEFL.(TL) = L/360 (0.55")
 CALCULATED VERT. DEFL.(TL) = L/999 (0.08")

CSI: TC=0.64/0.97 (A-J:1), BC=0.19/0.97 (C-G:1), WB=0.41/0.97 (B-I:1), SSI=0.33/1.00 (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 (PL) (PL) (PL)
 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.

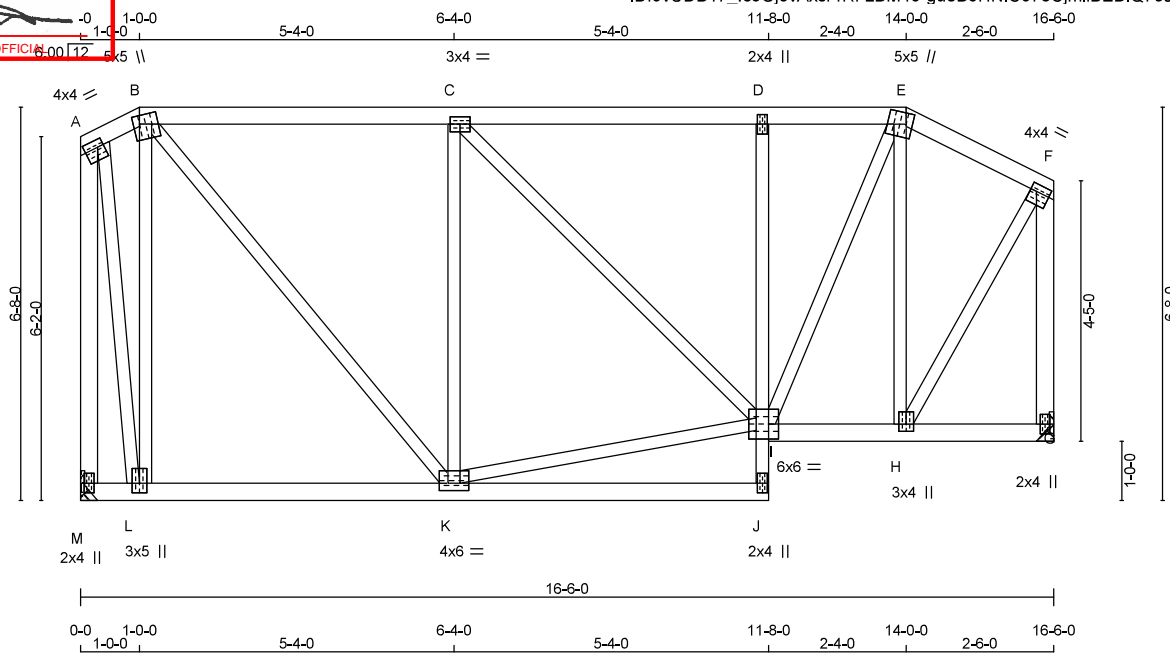
JSI GRIP= 0.85 (A) (INPUT = 0.90)
 JSI METAL = 0.35 (G) (INPUT = 1.00)



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.



PER: *C. Masri*
CHIEF BUILDING OFFICER



Scale = 1:39.1

TOTAL WEIGHT = 98 lb

LUMBER

N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
A - B	2x4	DRY	No.2	SPF
B - E	2x4	DRY	No.2	SPF
E - F	2x4	DRY	No.2	SPF
M - A	2x4	DRY	No.2	SPF
G - F	2x4	DRY	No.2	SPF
M - J	2x4	DRY	No.2	SPF
J - D	2x3	DRY	No.2	SPF
I - G	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMVW-t	MT20	4.0	4.0	1.50	1.25
B	TTWW+m	MT20	5.0	5.0	1.75	1.25
C	TMVW-t	MT20	3.0	4.0		
D	TMV+p	MT20	2.0	4.0		
E	TTWW+m	MT20	5.0	5.0	2.25	1.25
F	TMVW-t	MT20	4.0	4.0	1.50	1.25
G	BMV1+p	MT20	2.0	4.0		
H	BMVW+t	MT20	3.0	4.0	1.50	1.50
I	BVMVWV-t	MT20	6.0	6.0	3.00	2.00
J	BMV+p	MT20	2.0	4.0		
K	BMVWV-t	MT20	4.0	6.0	1.50	3.00
L	BMVW+t	MT20	3.0	5.0	2.00	1.50
M	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
M	1136	0	1136
G	1136	0	1136

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

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
M	794	574 / 0	0 / 0	0 / 0	0 / 0	219 / 0	0 / 0
G	794	574 / 0	0 / 0	0 / 0	0 / 0	219 / 0	0 / 0

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLUN SPACING = 5.93 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 7.81 FT. OR RIGID CEILING DIRECTLY APPLIED.
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

LOADING

TOTAL LOAD CASES: (4)

MEMB.	MAX. FACTORED FORCE (LBS)	CHORDS			WEBS		
		VERT. LOAD (PLF)	LC1 (CSI (LC))	MAX. UNBRACED LENGTH	MEMB. FORCE (LBS)	MAX. FACTORED CSI (LC)	
FR-TO							
A-B	-171 / 0	-119.4	-119.4	0.02 (1)	6.25	L-B -945 / 0	0.70 (1)
B-C	-755 / 0	-119.4	-119.4	0.53 (1)	5.94	B-K 0 / 923	0.21 (1)
C-D	-760 / 0	-119.4	-119.4	0.53 (1)	5.93	K-C -734 / 0	0.54 (1)
D-E	-762 / 0	-119.4	-119.4	0.23 (1)	6.25	K-I 0 / 786	0.17 (1)
E-F	-522 / 0	-119.4	-119.4	0.13 (1)	6.25	C-I -6 / 0	0.01 (4)
M-A	-1121 / 0	0.0	0.0	0.88 (1)	7.40	I-E 0 / 747	0.17 (1)
G-F	-1119 / 0	0.0	0.0	0.37 (1)	7.41	H-E -675 / 0	0.33 (1)
						A-L 0 / 996	0.22 (1)
						H-F 0 / 871	0.20 (1)
M-L	0 / 0	-18.2	-18.2	0.05 (4)	10.00		
L-K	0 / 166	-18.2	-18.2	0.15 (4)	10.00		
K-J	0 / 10	-18.2	-18.2	0.13 (4)	10.00		
J-I	0 / 42	0.0	0.0	0.03 (1)	10.00		
I-D	-484 / 0	0.0	0.0	0.24 (1)	7.81		
I-H	0 / 453	-18.2	-18.2	0.10 (1)	10.00		
H-G	0 / 0	-18.2	-18.2	0.03 (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

LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF CBC 2018, NBC-2019AE
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPC 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 (0.55")
CALCULATED VERT. DEFL.(LL) = L/999 (0.03")
ALLOWABLE DEFL.(TL) = L/360 (0.55")
CALCULATED VERT. DEFL.(TL) = L/999 (0.07")

CSI: TC=0.88/0.97 (A-M:1), BC=0.24/0.97 (D-1:1), WB=0.70/0.97 (B-L:1), SSI=0.30/1.00 (E-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)	SHEAR (PS)	SECTION (PL)
MT20	650	371	1747
	788	1987	1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (E) (INPUT = 0.90)
JSI METAL = 0.35 (A) (INPUT = 1.00)



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.



CORPORATION OF THE CITY OF OSHAWA
 JOB NAME TRUSS NAME

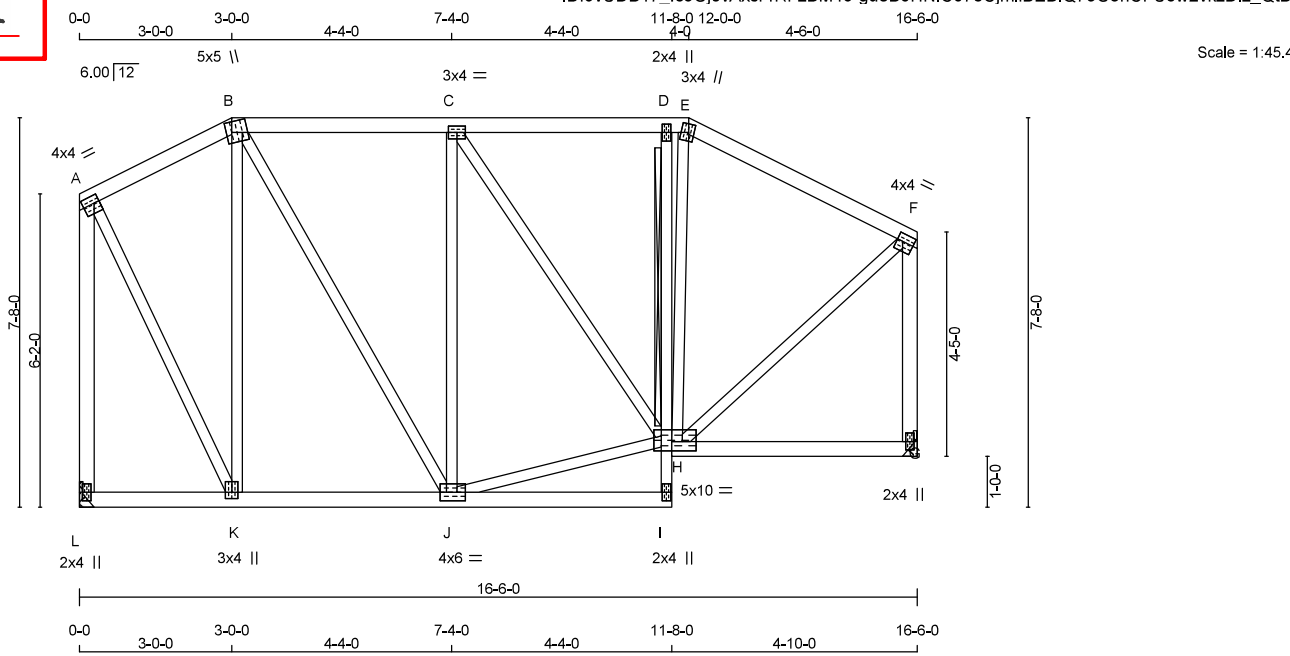
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 OF PERMIT PLANS
 Oct 31 2023

PER: *Chief Building Official*
 CHIEF BUILDING OFFICIAL

QUANTITY PLY JOB DESC.

1 MHP 23031

Version 8.630 S Mar 22 2023 MiTek Industries, Inc. Fri Jul 7 15:27:46 2023 Page 1
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TOTAL WEIGHT = 98 lb

LUMBER
 N. L. G. A. RULES
 CHORDS SIZE LUMBER

A - B	2x4	DRY	No.2
B - E	2x4	DRY	No.2
E - F	2x4	DRY	No.2
L - A	2x4	DRY	No.2
G - F	2x4	DRY	No.2
L - I	2x4	DRY	No.2
L - D	2x3	DRY	No.2
H - G	2x4	DRY	No.2
ALL WEBS EXCEPT	2x3	DRY	No.2

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMVW4	MT20	4.0	4.0	1.75	1.25
B	TTWW+m	MT20	5.0	5.0	2.50	1.25
C	TMVW4	MT20	3.0	4.0		
D	TMV+p	MT20	2.0	4.0		
E	TTW+m	MT20	3.0	4.0	2.00	1.25
F	TMVW4	MT20	4.0	4.0	1.75	1.25
G	BMV1+p	MT20	2.0	4.0		
H	BMVWWWW	MT20	5.0	10.0	2.25	5.75
I	BMV+p	MT20	2.0	4.0		
J	BMVWW4	MT20	4.0	6.0	2.00	1.50
K	BMVW+t	MT20	3.0	4.0	1.50	1.50
L	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		
L	1136	0	1136	0	MECHANICAL	MECHANICAL
G	1136	0	1136	0	MECHANICAL	MECHANICAL

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

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
L	794	574 / 0	0 / 0	0 / 0	0 / 0	219 / 0	0 / 0
G	794	574 / 0	0 / 0	0 / 0	0 / 0	219 / 0	0 / 0

BRACING
 TOP CHORD TO BE SHEATHED OR MAX. PURLUN SPACING = 6.25 FT.
 MAX. UNBRACED BOTTOM CHORD LENGTH = 7.81 FT. OR RIGID CEILING DIRECTLY APPLIED.
 ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.
 2x4 DRY SPF No.2 T-BRACE AT D-H
 FASTEN T AND I-BRACES TO NARROW EDGE OF WEB WITH ONE ROW PER PLY OF 3" COMMON WIRE NAILS @ 6" O.C. WITH 3" MINIMUM END DISTANCE. BRACE MUST COVER 90% OF WEB LENGTH.

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. FORCE (LBS)	FACTORED VERT. LOAD (PLF)	FACTORED LC1 MAX CSI (LC)	MEMB.	MAX. FORCE (LBS)	FACTORED UNBRAC LENGTH FR-TO	MEMB. MAX FORCE (LBS)	
FR-TO		FROM	TO	FR-TO				
A-B	-438 / 0	-119.4	-119.4	0.19 (1)	6.25	K-B	-666 / 0	0.72 (1)
B-C	-664 / 0	-119.4	-119.4	0.35 (1)	6.25	B-J	0 / 557	0.13 (1)
C-D	-627 / 0	-119.4	-119.4	0.35 (1)	6.25	J-C	-551 / 0	0.60 (1)
D-E	-625 / 0	-119.4	-119.4	0.10 (1)	6.25	J-H	0 / 677	0.15 (1)
E-F	-690 / 0	-119.4	-119.4	0.43 (1)	6.25	C-H	-68 / 0	0.08 (1)
L-A	-1115 / 0	0.0	0.0	0.87 (1)	7.42	H-E	0 / 170	0.04 (1)
G-F	-1091 / 0	0.0	0.0	0.36 (1)	7.48	A-K	0 / 836	0.19 (1)
L-K	0 / 0	-18.2	-18.2	0.05 (4)	10.00	H-F	0 / 802	0.18 (1)
K-J	0 / 382	-18.2	-18.2	0.10 (4)	10.00			
J-I	0 / 6	-18.2	-18.2	0.08 (4)	10.00			
I-H	0 / 34	0.0	0.0	0.02 (1)	10.00			
H-D	-393 / 0	0.0	0.0	0.04 (1)	7.81			
H-G	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

LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM

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
 - TPC 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 (0.55")
 CALCULATED VERT. DEFL.(LL) = L/999 (0.02")
 ALLOWABLE DEFL.(TL)= L/360 (0.55")
 CALCULATED VERT. DEFL.(TL) = L/999 (0.05")

CSI: TC=0.87/0.97 (A-L:1) , BC=0.13/0.97 (G-H:4) ,
 WB=0.72/0.97 (B-K:1) , SSI=0.25/1.00 (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) SHEAR SECTION (PL) (PL)
 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 = 0.28 (A) (INPUT = 1.00)



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.



CORPORATION OF THE CITY OF OSHAWA

JOB NAME TRUSS NAME

NE0723-039 T29
 TRUE COPY OF PERMIT PLANS
 Oct 31 2023

QUANTITY PLY JOB DESC.

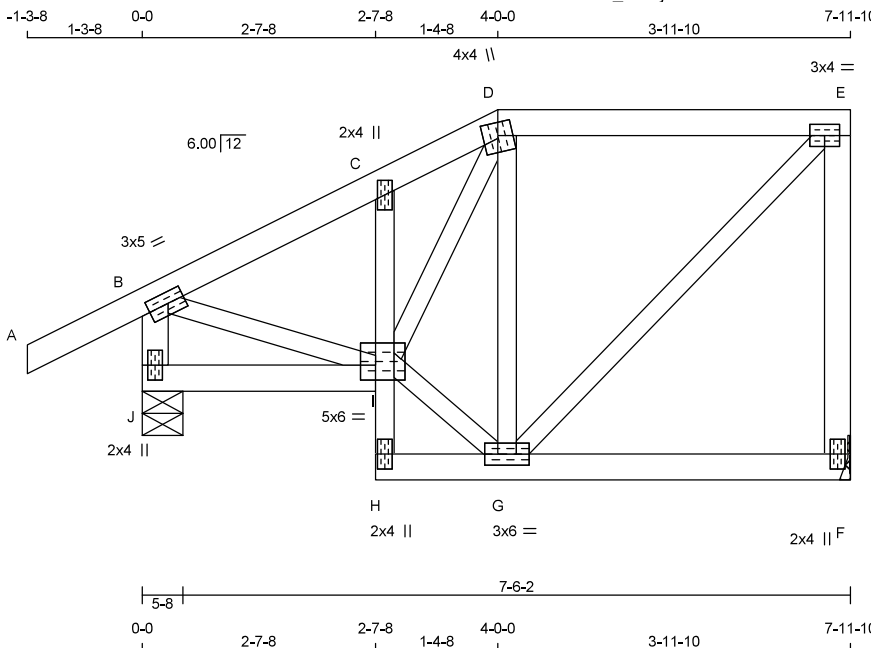
1 MHP 23031 TRUSS DESC.

DRWG NO.

Version 8.630 S Mar 22 2023 MiTek Industries, Inc. Fri Jul 7 15:27:47 2023 Page 1

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PER: *Chieff*
 CHIEF BUILDING OFFICIAL



Scale = 1:25.9

TOTAL WEIGHT = 40 lb

LUMBER

N. L. G. A. RULES

CHORDS	SIZE	LUMBER
A - D	2x4 DRY	No.2
D - E	2x4 DRY	No.2
F - E	2x4 DRY	No.2
J - B	2x4 DRY	No.2
J - I	2x4 DRY	No.2
H - C	2x3 DRY	No.2
H - F	2x4 DRY	No.2

ALL WEBS 2x3 DRY No.2 EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVWH	MT20	3.0	5.0	1.50	2.25
C	TMV+p	MT20	2.0	4.0		
D	TTW+m	MT20	4.0	4.0	1.75	2.00
E	TMVWH	MT20	3.0	4.0		
F	BMV1+p	MT20	2.0	4.0		
G	BMVWHH	MT20	3.0	6.0		
H	BMV+p	MT20	2.0	4.0		
I	BVMVWHH	MT20	5.0	6.0	2.00	2.00
J	BMV1+p	MT20	2.0	4.0		

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

BEARINGS

JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
F	549	0	549	0	0	MECHANICAL	
J	711	0	711	0	0	5-8	1-8

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

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
F	383	277 / 0	0 / 0	0 / 0	0 / 0	106 / 0	0 / 0
J	494	372 / 0	0 / 0	0 / 0	0 / 0	122 / 0	0 / 0

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

BRACING
 TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.
 MAX. UNBRACED BOTTOM CHORD LENGTH = 7.81 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING
 TOTAL LOAD CASES: (4)

MEMB.	MAX. FACTORED FORCE (LBS)	CHORDS			WEBS		
		VERT. LOAD (PLF)	LC1 MAX	MAX. UNBRACED LENGTH	MEMB. FORCE (LBS)	MAX. FACTORED CS1 (LC)	
FR-TO		FROM	TO	FR-TO			
A-B	0 / 36	-119.4	-119.4	0.16 (1)	10.00	I-G 0 / 348 0.08 (1)	
B-C	-520 / 0	-119.4	-119.4	0.11 (1)	6.25	I-D 0 / 406 0.09 (1)	
C-D	-533 / 0	-119.4	-119.4	0.08 (1)	6.25	G-D -415 / 0 0.11 (1)	
D-E	-283 / 0	-119.4	-119.4	0.32 (1)	6.25	G-E 0 / 401 0.09 (1)	
F-E	-520 / 0	0.0	0.0	0.14 (1)	7.81	B-I 0 / 496 0.11 (1)	
J-B	-686 / 0	0.0	0.0	0.07 (1)	7.81		
J-I	0 / 0	-18.2	-18.2	0.04 (4)	10.00		
H-I	-7 / 0	0.0	0.0	0.03 (1)	10.00		
I-C	-297 / 0	0.0	0.0	0.04 (1)	7.81		
H-G	0 / 13	-18.2	-18.2	0.06 (4)	10.00		
G-F	0 / 0	-18.2	-18.2	0.06 (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

LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM

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 (0.27")
 CALCULATED VERT. DEFL.(LL) = L / 999 (0.01")
 ALLOWABLE DEFL.(TL) = L/360 (0.27")
 CALCULATED VERT. DEFL.(TL) = L / 999 (0.02")

CSI: TC=0.32/0.97 (D-E:1), BC=0.06/0.97 (G-H:4), WB=0.11/0.97 (B-I:1), SSI=0.18/1.00 (D-E: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

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES
 PLATE GRIP(DRY) SHEAR SECTION (PSD) (PL) (PL)
 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= 0.79 (I) (INPUT = 0.90)
 JSI METAL = 0.19 (B) (INPUT = 1.00)



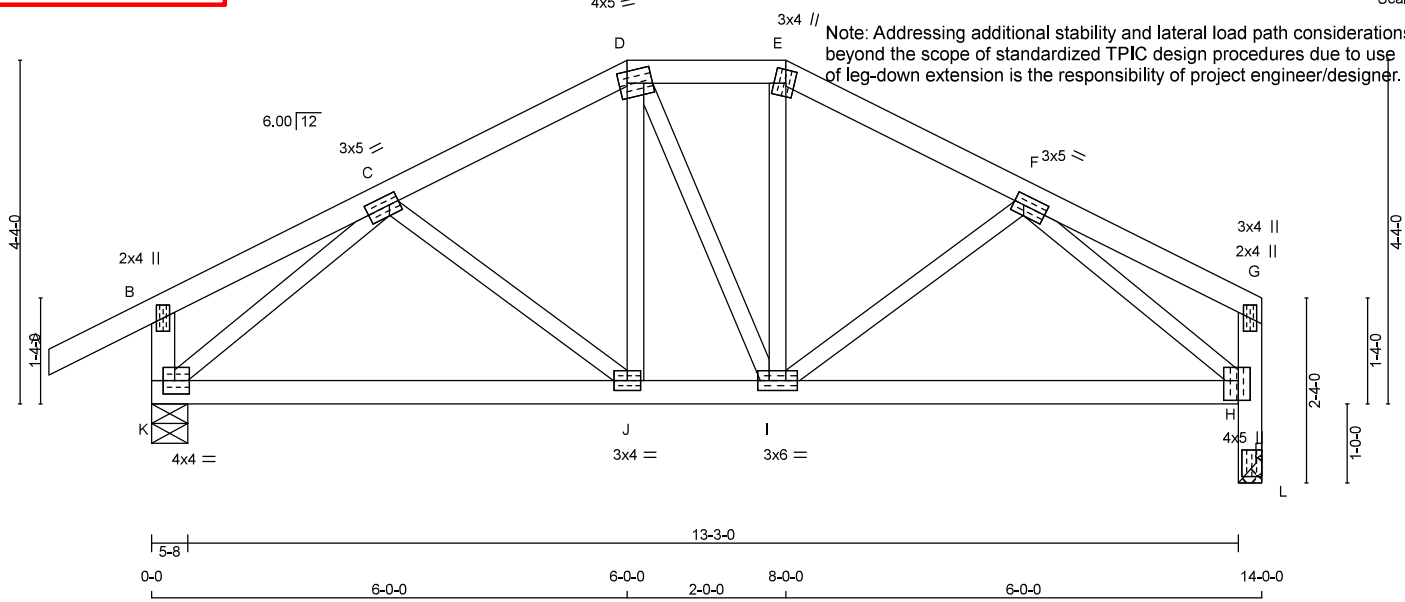
READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTES: TRUSSES. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.



PER: *[Signature]*
 CHIEF BUILDING OFFICIAL

3-0-0 3-0-0 3-0-0 2-0-0 8-0-0 3-0-0 11-0-0 3-0-0 14-0-0

Scale = 1:29.1



TOTAL WEIGHT = 60 lb

LUMBER

N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY No.2	SPF
D - E	2x4	DRY No.2	SPF
E - G	2x4	DRY No.2	SPF
K - B	2x4	DRY No.2	SPF
L - G	2x4	DRY No.2	SPF
K - H	2x4	DRY No.2	SPF
ALL WEBS EXCEPT	2x3	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		
C	TMWW-H	MT20	3.0	5.0	1.50	1.50
D	TTWW+m	MT20	4.0	5.0	1.75	1.25
E	TTW+m	MT20	3.0	4.0	2.00	1.25
F	TMWW-H	MT20	3.0	5.0	1.50	1.50
G	TMV+p	MT20	2.0	4.0		
H	BMVW+p	MT20	4.0	5.0	3.00	2.25
I	BMWWW-H	MT20	3.0	6.0		
J	BMWW-H	MT20	3.0	4.0		
K	BMVW-H	MT20	4.0	4.0	2.00	1.75
L	EBSP-t	MT20	3.0	4.0		1.00

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

BEARINGS

JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
L	964	0	964	0	0	MECHANICAL	
K	1126	0	1126	0	0	5-8	1-8

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT L. MINIMUM BEARING LENGTH AT JOINT L = 3-8.

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
L	674	487 / 0	0 / 0	0 / 0	0 / 0	186 / 0	0 / 0
K	784	582 / 0	0 / 0	0 / 0	0 / 0	202 / 0	0 / 0

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.13 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)

MEMB.	MAX. FACTORED FORCE (LBS)	CHORDS			WEBS			
		VERT. LOAD (PLF)	LC1 MAX	MAX. UNBRACED LENGTH FR-TO	MEMB. FORCE (LBS)	MAX. FACTORED CSI (LC)	MEMB. FORCE (LBS)	MAX. FACTORED CSI (LC)
A-B	0 / 36	-119.4	-119.4	0.16 (1)	10.00	J-D	0 / 154	0.03 (1)
B-C	0 / 17	-119.4	-119.4	0.16 (1)	10.00	D-I	0 / 2	0.00 (1)
C-D	-944 / 0	-119.4	-119.4	0.17 (1)	6.13	E-J	0 / 156	0.04 (1)
D-E	-833 / 0	-119.4	-119.4	0.09 (1)	6.25	C-J	-120 / 16	0.03 (1)
E-F	-944 / 0	-119.4	-119.4	0.17 (1)	6.13	I-F	-119 / 16	0.03 (1)
F-G	0 / 17	-119.4	-119.4	0.16 (1)	10.00	F-H	-1204 / 0	0.30 (1)
K-B	-303 / 0	0.0	0.0	0.03 (1)	7.81	K-C	-1203 / 0	0.30 (1)
L-H	-964 / 0	0.0	0.0	0.10 (1)	7.81			
H-G	-141 / 0	0.0	0.0	0.01 (1)	7.81			
K-J	0 / 921	-18.2	-18.2	0.23 (1)	10.00			
J-I	0 / 832	-18.2	-18.2	0.20 (1)	10.00			
I-H	0 / 921	-18.2	-18.2	0.23 (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

LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM

THIS TRUSS IS DESIGNED FOR IDENTICAL 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 (0.47")
 CALCULATED VERT. DEFL.(LL) = L/999 (0.02")
 ALLOWABLE DEFL.(TL) = L/360 (0.47")
 CALCULATED VERT. DEFL.(TL) = L/999 (0.06")

CSI: TC=0.17/0.97 (C-D-1), BC=0.23/0.97 (J-K-1), WB=0.30/0.97 (F-H-1), SSI=0.15/1.00 (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

AUTOSOLVE HEELS OFF

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

NAIL VALUES

PLATE	GRIP(DRY)	SHEAR (PSD)	SECTION (PL)
MT20	650	371	1747
			788
			1987
			1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.85 (F) (INPUT = 0.90)
 JSI METAL = 0.32 (F) (INPUT = 1.00)



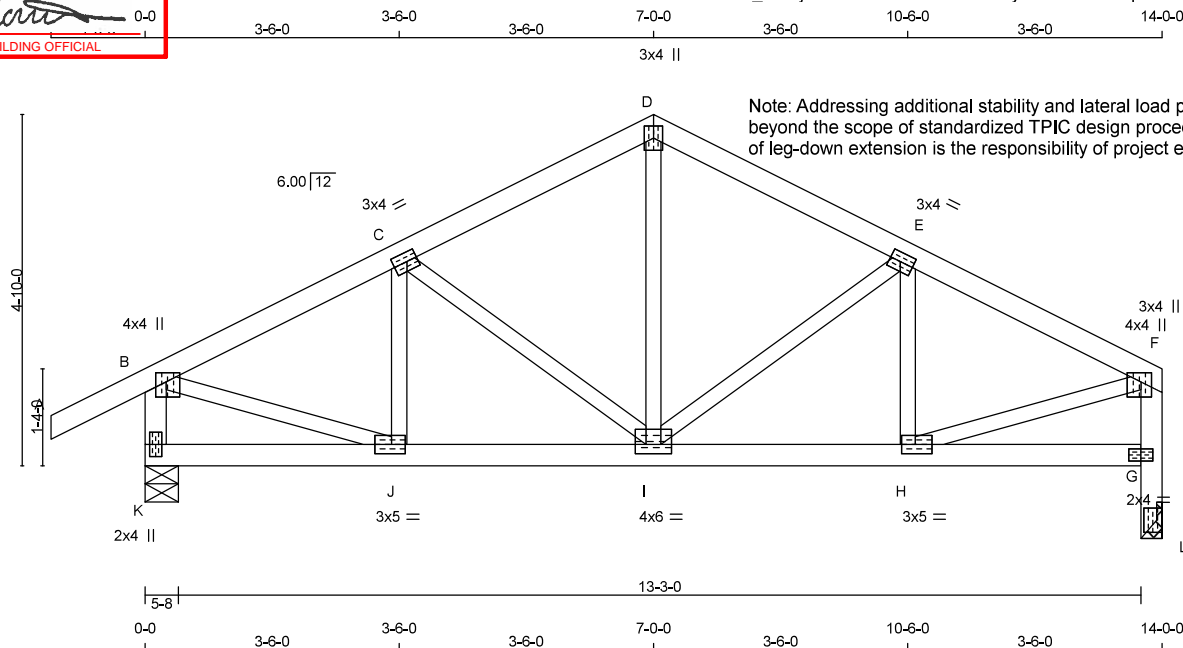
READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTES: TRUSSES. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.



TRUE COPY
OF PERMIT PLANS
DATE: 31 OCT 2023

MHP 23031

PER: *[Signature]* 0-0
 CHIEF BUILDING OFFICIAL



Scale: 3/8"=1'

TOTAL WEIGHT = 58 lb

LUMBER

N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY	No.2	SPF
D - F	2x4	DRY	No.2	SPF
K - B	2x4	DRY	No.2	SPF
L - F	2x4	DRY	No.2	SPF
K - G	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	4.0	4.0	1.50	1.75
C	TMVW-H	MT20	3.0	4.0	1.50	1.75
D	TTW+p	MT20	3.0	4.0		
E	TMVW-H	MT20	3.0	4.0	1.50	1.75
F	TMVW+p	MT20	4.0	4.0	1.50	1.75
G	BMV-H	MT20	2.0	4.0		
H	BMVW-H	MT20	3.0	5.0	1.50	2.25
I	BMVW-H	MT20	4.0	6.0	1.50	3.00
J	BMVW-H	MT20	3.0	5.0	1.50	2.25
K	BMV1+p	MT20	2.0	4.0		
L	EBSP-t	MT20	3.0	4.0		1.00

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

BEARINGS

JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
K	1126	0	1126	0	0	5-8	1-8
L	964	0	964	0	0	MECHANICAL	

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT L. MINIMUM BEARING LENGTH AT JOINT L = 3-8.

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
K	784	582 / 0	0 / 0	0 / 0	0 / 0	202 / 0	0 / 0
L	674	487 / 0	0 / 0	0 / 0	0 / 0	186 / 0	0 / 0

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

BRACING
 TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.74 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)

MEMB.	MAX. FACTORED FORCE (LBS)	CHORDS			WEBS			
		VERT. LOAD (PLF)	LC1 MAX	MAX. UNBRAC LENGTH FR-TO	MEMB. FORCE (LBS)	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)	
A-B	0 / 36	-119.4	-119.4	0.16 (1)	10.00	I-D	0 / 426	0.10 (1)
B-C	-1067 / 0	-119.4	-119.4	0.25 (1)	5.74	C-I	-286 / 0	0.09 (1)
C-D	-859 / 0	-119.4	-119.4	0.24 (1)	6.23	I-E	-286 / 0	0.09 (1)
D-E	-859 / 0	-119.4	-119.4	0.24 (1)	6.23	J-C	-223 / 2	0.04 (1)
E-F	-1067 / 0	-119.4	-119.4	0.25 (1)	5.74	H-E	-223 / 2	0.04 (1)
K-B	-1096 / 0	0.0	0.0	0.11 (1)	7.47	B-J	0 / 1014	0.23 (1)
L-G	-964 / 0	0.0	0.0	0.10 (1)	7.81	H-F	0 / 1015	0.23 (1)
G-F	-934 / 0	0.0	0.0	0.10 (1)	7.81			
K-J	0 / 0	-18.2	-18.2	0.05 (4)	10.00			
J-I	0 / 974	-18.2	-18.2	0.18 (1)	10.00			
I-H	0 / 974	-18.2	-18.2	0.18 (1)	10.00			
H-G	0 / 0	-18.2	-18.2	0.05 (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 (0.47")
 CALCULATED VERT. DEFL.(LL) = L/999 (0.02")
 ALLOWABLE DEFL.(TL) = L/360 (0.47")
 CALCULATED VERT. DEFL.(TL) = L/999 (0.04")

CSI: TC=0.25/0.97 (E-F:1) , BC=0.18/0.97 (H-I:1) , WB=0.23/0.97 (F-H:1) , SSI=0.18/1.00 (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

AUTOSOLVE HEELS OFF

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

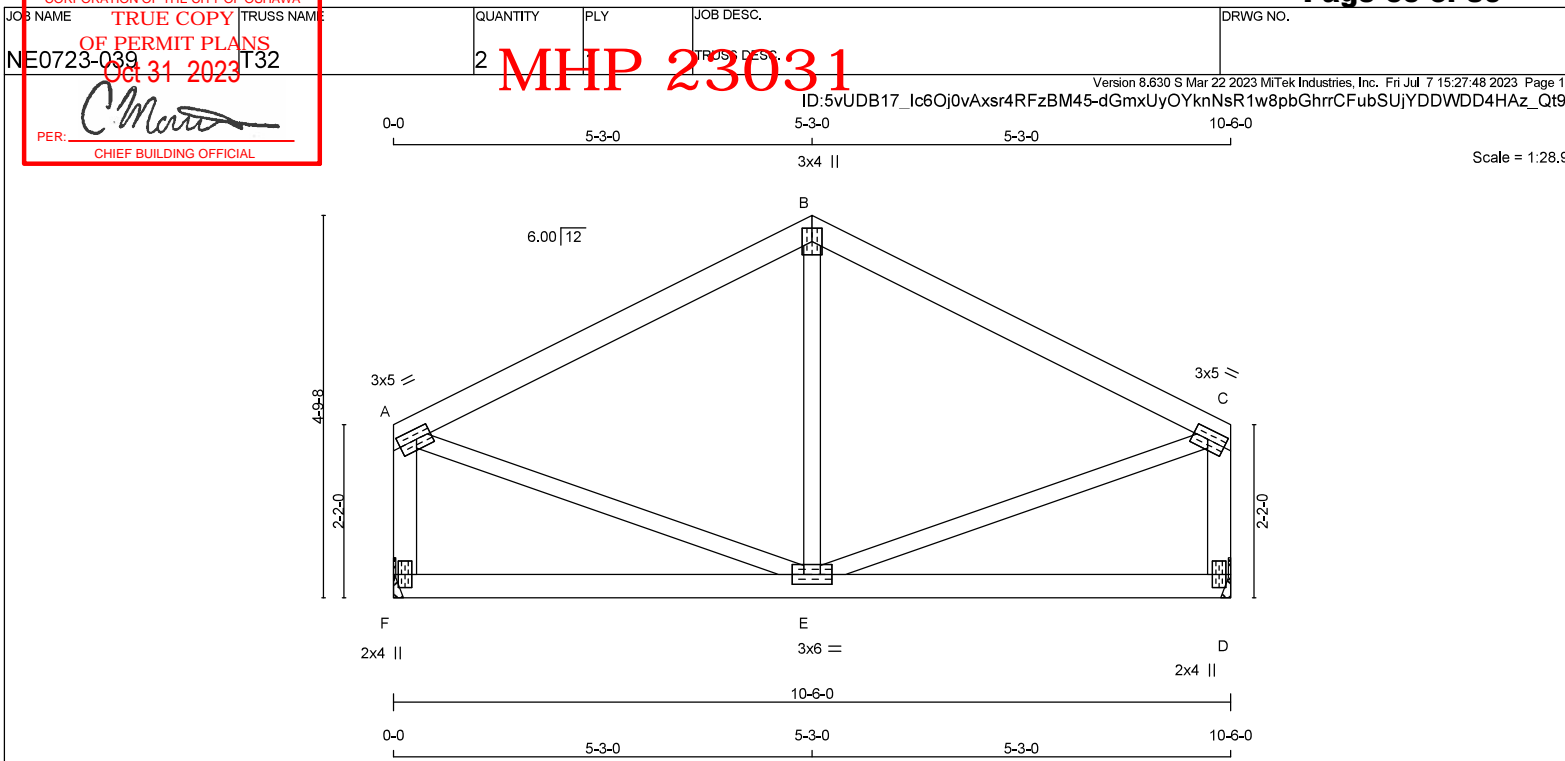
JSI GRIP= 0.89 (H) (INPUT = 0.90)
 JSI METAL = 0.31 (B) (INPUT = 1.00)



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.



CORPORATION OF THE CITY OF OSHAWA
 JOB NAME: NE0723-039 TRUSS NAME: T32
 TRUE COPY OF PERMIT PLANS
 OCT 31 2023
 PER: *[Signature]*
 CHIEF BUILDING OFFICIAL



LUMBER

N. L. G. A. RULES

CHORDS	SIZE	LUMBER
A - B	2x4	DRY No.2
B - C	2x4	DRY No.2
F - A	2x4	DRY No.2
D - C	2x4	DRY No.2
F - D	2x4	DRY No.2
ALL WEBS EXCEPT	2x3	DRY No.2

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMVWH	MT20	3.0	5.0	1.50	2.25
B	TTW+p	MT20	3.0	4.0		
C	TMVWH	MT20	3.0	5.0	1.50	2.25
D	BMV1+p	MT20	2.0	4.0		
E	BMVWH	MT20	3.0	6.0		
F	BMV1+p	MT20	2.0	4.0		

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

DESCR.	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT	VERT	HORZ	DOWN	HORZ
F	723	0	723	0
D	723	0	723	0

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

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
F	505	365 / 0	0 / 0	0 / 0	0 / 0	140 / 0	0 / 0
D	505	365 / 0	0 / 0	0 / 0	0 / 0	140 / 0	0 / 0

BRACING
 TOP CHORD TO BE SHEATHED OR MAX. PURLUN 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)

MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD		MAX. UNBRAC LENGTH	MEMB. FR-TO	MAX. FACTORED FORCE	
		VERT. LOAD (PLF)	LC1 MAX CSI (LC)			FORCE (LBS)	MAX CSI (LC)
A-B	-487 / 0	-119.4	-119.4	0.42 (1)	E-B	-191 / 41	0.06 (1)
B-C	-487 / 0	-119.4	-119.4	0.42 (1)	A-E	0 / 462	0.10 (1)
F-A	-686 / 0	0.0	0.0	0.08 (1)	E-C	0 / 462	0.10 (1)
D-C	-686 / 0	0.0	0.0	0.08 (1)			
F-E	0 / 0	-18.2	-18.2	0.14 (4)			10.00
E-D	0 / 0	-18.2	-18.2	0.14 (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 (0.35")
 CALCULATED VERT. DEFL.(LL) = L / 999 (0.01")
 ALLOWABLE DEFL.(TL)= L/360 (0.35")
 CALCULATED VERT. DEFL.(TL) = L / 999 (0.02")

CSI: TC=0.42/0.97 (A-B:1) , BC=0.14/0.97 (D-E:4) , WB=0.10/0.97 (C-E:1) , SSI=0.22/1.00 (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

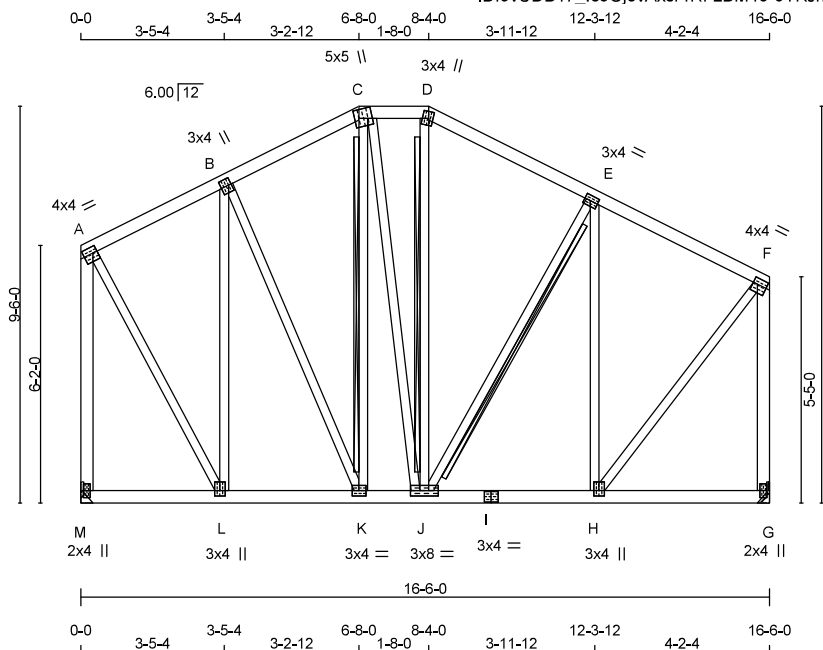
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.80 (E) (INPUT = 0.90)
 JSI METAL = 0.18 (C) (INPUT = 1.00)

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.



PER: *Chieff*
 CHIEF BUILDING OFFICIAL



Scale = 1:55.2

TOTAL WEIGHT = 109 lb

LUMBER
 N. L. G. A. RULES
 CHORDS SIZE LUMBER

A - C	2x4	DRY	No.2
C - D	2x4	DRY	No.2
D - F	2x4	DRY	No.2
M - A	2x4	DRY	No.2
G - F	2x4	DRY	No.2
M - I	2x4	DRY	No.2
I - G	2x4	DRY	No.2
ALL WEBS EXCEPT	2x3	DRY	No.2

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMVW4	MT20	4.0	4.0	1.75	1.25
B	TMVW+t	MT20	3.0	4.0	2.00	0.75
C	TTW+m	MT20	5.0	5.0	2.50	1.25
D	TTW+m	MT20	3.0	4.0	2.00	1.25
E	TMVW4	MT20	3.0	4.0	1.50	1.75
F	TMVW4	MT20	4.0	4.0	1.75	1.25
G	BMV1+p	MT20	2.0	4.0		
H	BMVW+t	MT20	3.0	4.0	1.50	1.50
I	BS-t	MT20	3.0	4.0		
J	BMVW+t	MT20	3.0	8.0		
K	BMVW4	MT20	3.0	4.0		
L	BMVW+t	MT20	3.0	4.0	1.50	1.50
M	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	UPLIFT	IN-SX	IN-SX	
M	1136	0	1136	0	0	MECHANICAL	MECHANICAL	
G	1136	0	1136	0	0	MECHANICAL	MECHANICAL	

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

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED		MAX./MIN. COMPONENT REACTIONS					
	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL		
M	794	574 / 0	0 / 0	0 / 0	219 / 0	0 / 0		
G	794	574 / 0	0 / 0	0 / 0	219 / 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.
 2x4 DRY SPF No.2 T-BRACE AT C-K, D-J, E-J

FASTEN T AND I-BRACES TO NARROW EDGE OF WEB WITH ONE ROW PER PLY OF 3" COMMON WIRE NAILS @ 6" O.C. WITH 3" MINIMUM END DISTANCE. BRACE MUST COVER 90% OF WEB LENGTH.

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)

MEMB.	CHORDS		FACTORED		WEBS	
	MAX. FORCE (LBS)	FACTORED (PLF)	VERT. LOAD (LBS)	MAX. CSI (LC)	MEMB. FORCE (LBS)	MAX. FACTORED CSI (LC)
FR-TO		FROM TO			LENGTH FR-TO	
A-B	-462 / 0	-119.4	-119.4	0.17 (1)	6.25	L-B -663 / 0 0.78 (1)
B-C	-573 / 0	-119.4	-119.4	0.17 (1)	6.25	B-K 0 / 152 0.03 (1)
C-D	-509 / 0	-119.4	-119.4	0.04 (1)	6.25	K-C -97 / 0 0.07 (1)
D-E	-597 / 0	-119.4	-119.4	0.26 (1)	6.25	C-J 0 / 102 0.02 (1)
E-F	-568 / 0	-119.4	-119.4	0.26 (1)	6.25	J-D -21 / 31 0.01 (1)
M-A	-1110 / 0	0.0	0.0	0.87 (1)	7.43	J-E -45 / 0 0.02 (1)
G-F	-1105 / 0	0.0	0.0	0.80 (1)	7.45	H-E -57 / 0 0.57 (1)
M-L	0 / 0	-18.2	-18.2	0.05 (4)	10.00	A-L 0 / 852 0.19 (1)
L-K	0 / 431	-18.2	-18.2	0.10 (1)	10.00	H-F 0 / 837 0.19 (1)
K-J	0 / 491	-18.2	-18.2	0.09 (1)	10.00	
J-I	0 / 531	-18.2	-18.2	0.13 (1)	10.00	
I-H	0 / 531	-18.2	-18.2	0.13 (1)	10.00	
H-G	0 / 0	-18.2	-18.2	0.08 (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

LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM

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
 - TPC 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 (0.55")
 CALCULATED VERT. DEFL.(LL) = L/999 (0.02")
 ALLOWABLE DEFL.(TL) = L/360 (0.55")
 CALCULATED VERT. DEFL.(TL) = L/999 (0.04")

CSI: TC=0.87/0.97 (A-M:1), BC=0.13/0.97 (H-J:1), WB=0.78/0.97 (B-L:1), SSI=0.21/1.00 (E-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 (PL) (PL)
 (PS) (PL) (PL)
 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 (H) (INPUT = 0.90)
 JSI METAL = 0.31 (H) (INPUT = 1.00)



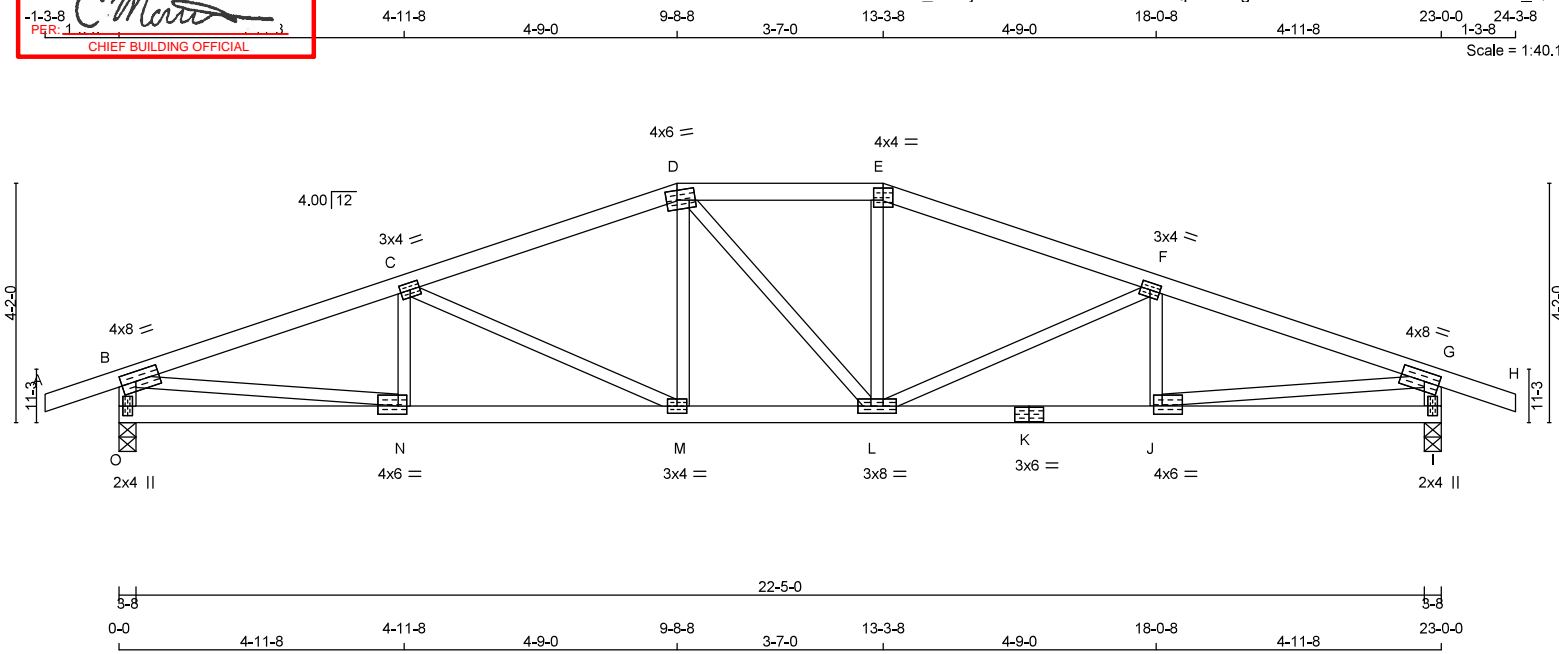
READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTES: TRUSSES. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.



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 OCT 31 2023

MHP 23031

CHIEF BUILDING OFFICIAL



Scale = 1:40.1

LUMBER

N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY No.2	SPF
D - E	2x4	DRY No.2	SPF
E - H	2x4	DRY No.2	SPF
O - B	2x4	DRY No.2	SPF
I - G	2x4	DRY No.2	SPF
O - K	2x4	DRY No.2	SPF
K - I	2x4	DRY No.2	SPF
ALL WEBS EXCEPT	2x3	DRY No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMWW4	MT20	4.0	8.0	2.00	3.00
C	TMWW4	MT20	3.0	4.0		
D	TTWW-m	MT20	4.0	6.0	2.00	2.25
E	TTW-l	MT20	4.0	4.0	2.50	2.00
F	TMWW4	MT20	3.0	4.0		
G	TMWW4	MT20	4.0	8.0	2.00	3.00
I	BMV1+p	MT20	2.0	4.0		
J	BMWW4	MT20	4.0	6.0	1.75	1.75
K	BS-t	MT20	3.0	6.0		
L	BMWWWW4	MT20	3.0	8.0		
M	BMWW4	MT20	3.0	4.0		
N	BMWW4	MT20	4.0	6.0	1.75	1.75
O	BMV1+p	MT20	2.0	4.0		

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

BEARINGS

JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	REQD BRG
O	1743	0	1743	0	0	3-8	2-3
I	1743	0	1743	0	0	3-8	2-3

UNFACTORED REACTIONS

JT	1ST LCASE	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
O	1216	894 / 0	0 / 0	0 / 0	0 / 0	322 / 0	0 / 0
I	1216	894 / 0	0 / 0	0 / 0	0 / 0	322 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.60 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)	MEMB.	MAX. FACTORED FORCE (LBS)
FR-TO	FROM	FR-TO	FROM
A-B	0 / 25	N-C	-277 / 14
B-C	-2961 / 0	C-M	-590 / 0
C-D	-2438 / 0	M-D	0 / 331
D-E	-2303 / 0	D-L	0 / 1
E-F	-2439 / 0	L-E	0 / 333
F-G	-2960 / 0	L-F	-589 / 0
G-H	0 / 25	J-F	-278 / 14
O-B	-1697 / 0	B-N	0 / 2850
I-G	-1697 / 0	J-G	0 / 2850
O-N	0 / 0		
N-M	0 / 2827		
M-L	0 / 2302		
L-K	0 / 2827		
K-J	0 / 2827		
J-I	0 / 0		

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

LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 2018, NBC-2019AE
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPC 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 (0.77")
 CALCULATED VERT. DEFL.(LL) = L/999 (0.14")
 ALLOWABLE DEFL.(TL) = L/360 (0.77")
 CALCULATED VERT. DEFL.(TL) = L/999 (0.24")

CSI: TC=0.45/0.97 (B-C-1) , BC=0.51/0.97 (M-N-1) , WB=0.64/0.97 (B-N-1) , SS=0.26/1.00 (F-G-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) (PS)	SHEAR (PL)	SECTION (PL)
MT20	650	371	1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

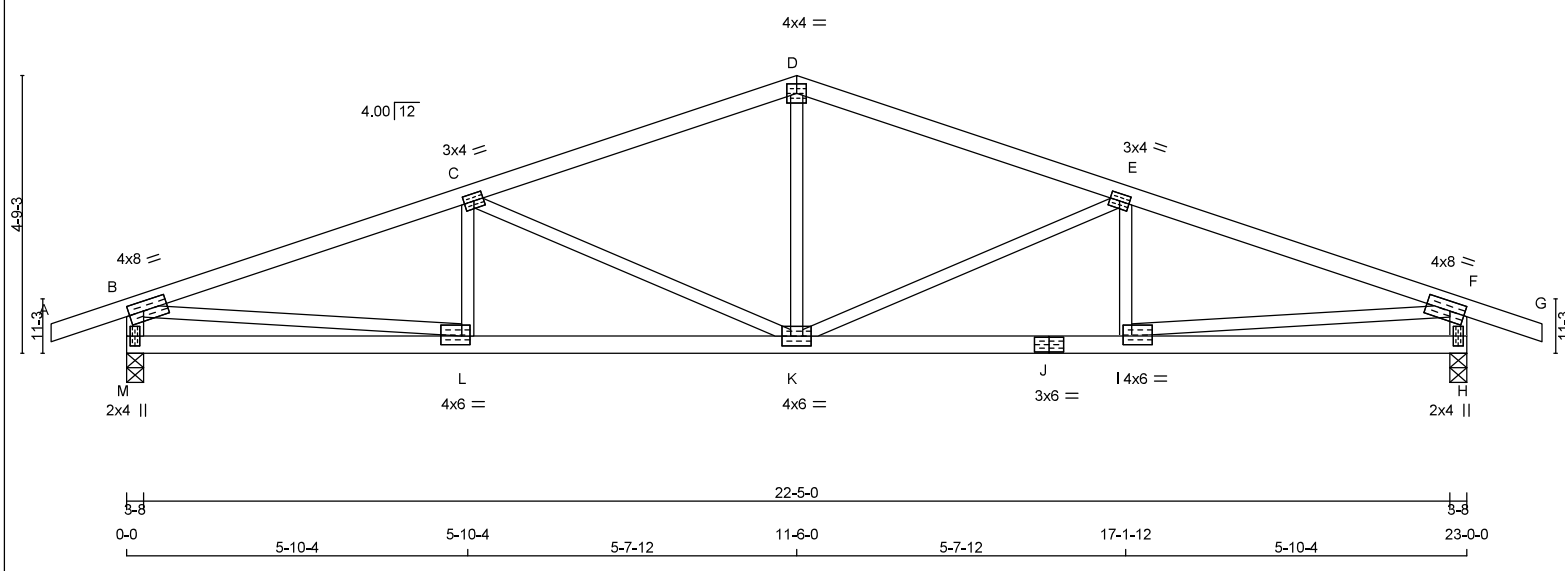
JSI GRIP= 0.88 (N) (INPUT = 0.90)
 JSI METAL = 0.90 (K) (INPUT = 1.00)



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.



CORPORATION OF THE CITY OF QSHAWA
 JOB NAME: TRUE COPY TRUSS NAME: T35
 NE0723-039
 OCT 31 2023
 MHP 23031
 Version 8.630 S Mar 22 2023 MiTek Industries, Inc. Fri Jul 7 15:27:50 2023 Page 1
 ID:5vUDB17_Ic6Oj0vAxsr4RFzBM45-ZfuiveQpG0dagL4Vvx0I9wGHY?P2kBIFWzXIBM3z_Qt7
 -1-3-8 PER: 1 CHIEF BUILDING OFFICIAL
 Scale = 1:39.5



LUMBER

N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY No.2	SPF
D - G	2x4	DRY No.2	SPF
M - B	2x4	DRY No.2	SPF
H - F	2x4	DRY No.2	SPF
M - J	2x4	DRY No.2	SPF
J - H	2x4	DRY No.2	SPF

ALL WEBS 2x3 DRY No.2
 EXCEPT
 DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMWWH	MT20	4.0	8.0	2.00	3.00
C	TMWWH	MT20	3.0	4.0		
D	TTW+p	MT20	4.0	4.0		
E	TMWWH	MT20	3.0	4.0		
F	TMWWH	MT20	4.0	8.0	2.00	3.00
H	BMV1+p	MT20	2.0	4.0		
I	BMWWH	MT20	4.0	6.0	1.75	1.75
J	BS+t	MT20	3.0	6.0		
K	BMWWH	MT20	4.0	6.0		
L	BMWWH	MT20	4.0	6.0	1.75	1.75
M	BMV1+p	MT20	2.0	4.0		

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG
	VERT	HORZ	DOWN	HORZ		
M	1743	0	1743	0	3-8	2-3
H	1743	0	1743	0	3-8	2-3

UNFACTORED REACTIONS

JT	1ST LCASE		MAX./MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE	PERM./LIVE			
M	1216	894 / 0	0 / 0	0 / 0	0 / 0	322 / 0	0 / 0
H	1216	894 / 0	0 / 0	0 / 0	0 / 0	322 / 0	0 / 0

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

BRACING
 TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.33 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)

MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD		MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE	
		FROM	TO			(LBS)	MAX. CSI (LC)
FR-TO					FR-TO		
A-B	0 / 25	-119.4	-119.4	0.15 (1)	K-D	0 / 852	0.19 (1)
B-C	-2984 / 0	-119.4	-119.4	0.64 (1)	K-E	-881 / 0	0.60 (1)
C-D	-2189 / 0	-119.4	-119.4	0.55 (1)	L-E	-209 / 46	0.04 (1)
D-E	-2189 / 0	-119.4	-119.4	0.55 (1)	C-K	-881 / 0	0.60 (1)
E-F	-2984 / 0	-119.4	-119.4	0.64 (1)	L-C	-209 / 46	0.04 (1)
F-G	0 / 25	-119.4	-119.4	0.15 (1)	B-L	0 / 2870	0.65 (1)
M-B	-1692 / 0	0.0	0.0	0.17 (1)	I-F	0 / 2870	0.65 (1)
H-F	-1692 / 0	0.0	0.0	0.17 (1)			
M-L	0 / 0	-18.2	-18.2	0.13 (4)			
L-K	0 / 2853	-18.2	-18.2	0.54 (1)			
K-J	0 / 2853	-18.2	-18.2	0.54 (1)			
J-I	0 / 2853	-18.2	-18.2	0.54 (1)			
I-H	0 / 0	-18.2	-18.2	0.13 (4)			

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 (0.77")
 CALCULATED VERT. DEFL.(LL) = L/999 (0.15")
 ALLOWABLE DEFL.(TL) = L/360 (0.77")
 CALCULATED VERT. DEFL.(TL) = L/999 (0.26")

CSI: TC=0.64/0.97 (E-F-1), BC=0.54/0.97 (I-K-1), WB=0.65/0.97 (F-I-1), SSI=0.32/1.00 (E-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)
 MT20 650 371 1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.
 JSI GRIP= 0.88 (B) (INPUT = 0.90)
 JSI METAL = 0.87 (J) (INPUT = 1.00)

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.



CORPORATION OF THE CITY OF OSHAWA

JOB NAME TRUSS NAME

NE0723-039 T36
 OF PERMIT PLANS
 Oct 31 2023

QUANTITY PLY JOB DESC.

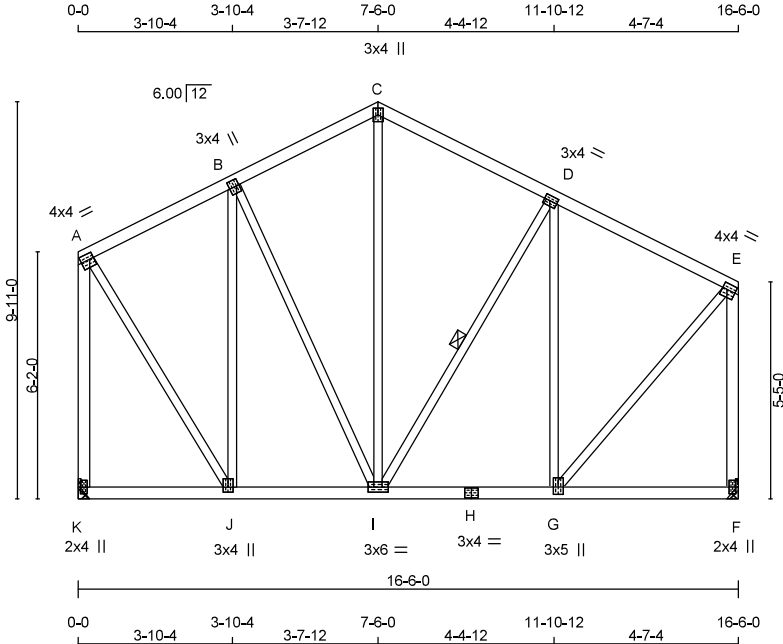
4 MHP 23031

DRWG NO.

Version 8.630 S Mar 22 2023 MiTek Industries, Inc. Fri Jul 7 15:27:51 2023 Page 1

ID:5vUDB17_Ic6Oj0vAxsr4RFzBM45-1rS46_RR1iIRIVfUkpOSUqeDpUEWjGfCBRkuVz_Q16

PER: *Chieff*
 CHIEF BUILDING OFFICIAL



Scale = 1:57.6

TOTAL WEIGHT = 4 X 96 = 384 lb

LUMBER

N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
A - C	2x4	DRY No.2	SPF
C - E	2x4	DRY No.2	SPF
K - A	2x4	DRY No.2	SPF
F - E	2x4	DRY No.2	SPF
K - H	2x4	DRY No.2	SPF
H - F	2x4	DRY No.2	SPF
ALL WEBS EXCEPT	2x3	DRY No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMWWH	MT20	4.0	4.0	1.75	1.25
B	TMWWH+t	MT20	3.0	4.0	2.00	0.75
C	TTW+p	MT20	3.0	4.0		
D	TMWWH	MT20	3.0	4.0	1.50	1.75
E	TMWWH	MT20	4.0	4.0	1.75	1.25
F	BMV1+p	MT20	2.0	4.0		
G	BMWWH+t	MT20	3.0	5.0	2.25	1.50
H	BS-t	MT20	3.0	4.0		
I	BMWWH	MT20	3.0	6.0		
J	BMWWH+t	MT20	3.0	4.0	1.50	1.50
K	BMV1+p	MT20	2.0	4.0		

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

DESIGNER BEARINGS

JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX BRG	IN-SX BRG
K	1136	0	1136	0	0	MECHANICAL	MECHANICAL
F	1136	0	1136	0	0	MECHANICAL	MECHANICAL

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

UNFACTORED REACTIONS

JT	1ST CASE COMBINED	MAX. SNOW	MIN. LIVE	PERM. LIVE	WIND	DEAD	SOIL
K	794	574 / 0	0 / 0	0 / 0	0 / 0	219 / 0	0 / 0
F	794	574 / 0	0 / 0	0 / 0	0 / 0	219 / 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.

1 - 1x4 LATERAL BRACE(S) AT 1/2 LENGTH OF D-4. DBS = 20-0-0. CBF = 17 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)

MEMB.	MAX. FACTORED FORCE (LBS)	CHORDS			WEBS		
		VERT. LOAD (PLF)	LC1 (LC)	MAX. (LC)	MEMB. FORCE (LBS)	MAX. FACTORED (LBS)	MAX. (LC)
FR-TO		FROM	TO	LENGTH	FR-TO		
A-B	-491 / 0	-119.4	-119.4	0.21 (1)	6.25	J-B	-621 / 0
B-C	-567 / 0	-119.4	-119.4	0.21 (1)	6.25	B-I	0 / 59
C-D	-572 / 0	-119.4	-119.4	0.31 (1)	6.25	I-C	0 / 127
D-E	-590 / 0	-119.4	-119.4	0.31 (1)	6.25	I-D	-135 / 0
K-A	-1107 / 0	0.0	0.0	0.87 (1)	7.44	G-D	-518 / 0
F-E	-1102 / 0	0.0	0.0	0.80 (1)	7.45	A-J	0 / 837
						G-E	0 / 827
K-J	0 / 0	-18.2	-18.2	0.06 (4)	10.00		
J-I	0 / 460	-18.2	-18.2	0.11 (1)	10.00		
I-H	0 / 554	-18.2	-18.2	0.14 (1)	10.00		
H-G	0 / 554	-18.2	-18.2	0.14 (1)	10.00		
G-F	0 / 0	-18.2	-18.2	0.09 (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

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 (0.55")
 CALCULATED VERT. DEFL.(LL) = L/999 (0.02")
 ALLOWABLE DEFL.(TL) = L/360 (0.55")
 CALCULATED VERT. DEFL.(TL) = L/999 (0.04")

CSI: TC=0.87/0.97 (A-K:1), BC=0.14/0.97 (G-I:1), WB=0.79/0.97 (B-J:1), SSI=0.24/1.00 (D-E: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 MIN MAX MIN
 MT20 650 371 1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (E) (INPUT = 0.90)
 JSI METAL = 0.33 (G) (INPUT = 1.00)



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.



CORPORATION OF THE CITY OF OSHAWA

JOB NAME TRUSS NAME

NE0723-039 T38
 TRUE COPY OF PERMIT PLANS
 Oct 31 2023

QUANTITY PLY JOB DESC.

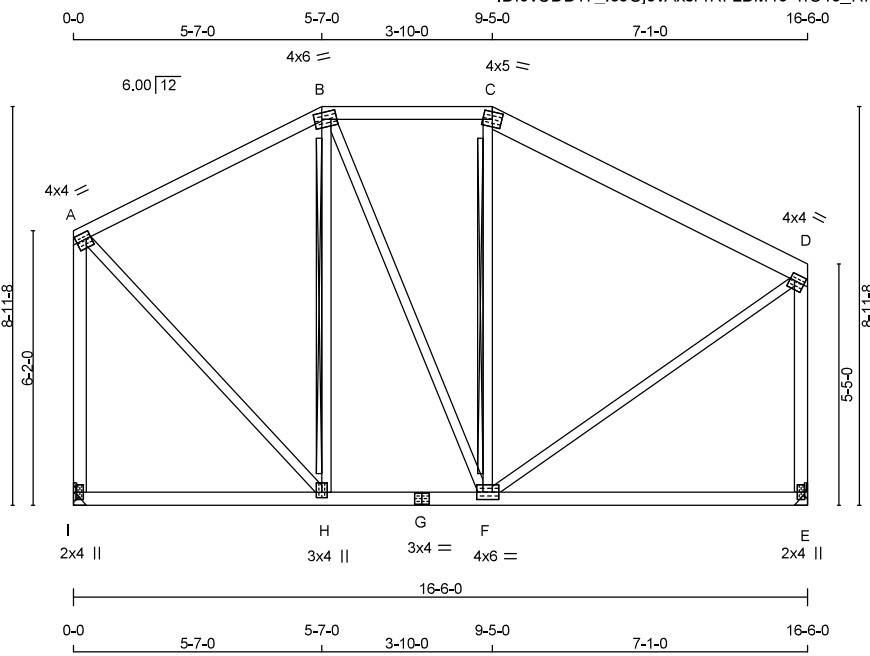
1 MHP 23031

DRWG NO.

Version 8.630 S Mar 22 2023 MiTek Industries, Inc. Fri Jul 7 15:27:51 2023 Page 1

ID:5vUDB17_Ic6Oj0vAxsr4RFzBM45-1rS46_RR1iIRIVfUkPOSUqepPpTzwshfCBRkuVz_Q16

PER: *C. Masri*
 CHIEF BUILDING OFFICIAL



Scale = 1:51.8

TOTAL WEIGHT = 91 lb

LUMBER
 N. L. G. A. RULES

CHORDS	SIZE	LUMBER
A - B	2x4	DRY No.2
B - C	2x4	DRY No.2
C - D	2x6	DRY No.2
I - A	2x4	DRY No.2
E - D	2x4	DRY No.2
I - G	2x4	DRY No.2
G - E	2x4	DRY No.2
ALL WEBS EXCEPT	2x3	DRY No.2

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMWW4	MT20	4.0	4.0	1.75	1.25
B	TTWW-m	MT20	4.0	6.0	1.75	2.00
C	TTW-m	MT20	4.0	5.0		
D	TMWW4	MT20	4.0	4.0	1.75	1.25
E	BMV1+p	MT20	2.0	4.0		
F	BMWWW4	MT20	4.0	6.0		
G	BS-t	MT20	3.0	4.0		
H	BMWW+t	MT20	3.0	4.0	1.50	1.50
I	BMV1+p	MT20	2.0	4.0		

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

BEARINGS

DESCR.	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT	VERT	HORZ	DOWN	HORZ
I	1136	0	1136	0
E	1136	0	1136	0

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

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
I	794	574 / 0	0 / 0	0 / 0	0 / 0	219 / 0	0 / 0
E	794	574 / 0	0 / 0	0 / 0	0 / 0	219 / 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.
 2x4 DRY SPF No.2 T-BRACE AT B-H, C-F
 FASTEN T AND I-BRACES TO NARROW EDGE OF WEB WITH ONE ROW PER PLY OF 3" COMMON WIRE NAILS @ 6" O.C. WITH 3" MINIMUM END DISTANCE. BRACE MUST COVER 90% OF WEB LENGTH.
 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)

MEMB.	MAX. FACTORED FORCE (LBS)	CHORDS			WEBS			
		VERT. LOAD	LC1	MAX	MEMB. UNBRAC	MAX. FORCE (LBS)	MAX. FACTORED CSI (LC)	
FR-TO		FROM	TO	LENGTH	FR-TO			
A-B	-553 / 0	-119.4	-119.4	0.48 (1)	6.25	H-B	-427 / 0	0.25 (1)
B-C	-541 / 0	-119.4	-119.4	0.23 (1)	6.25	B-F	0 / 129	0.03 (1)
C-D	-612 / 0	-119.4	-119.4	0.38 (1)	6.25	F-C	-382 / 0	0.22 (1)
I-A	-1091 / 0	0.0	0.0	0.85 (1)	7.48	A-H	0 / 710	0.16 (1)
E-D	-1080 / 0	0.0	0.0	0.54 (1)	7.51	F-D	0 / 685	0.15 (1)
I-H	0 / 0	-18.2	-18.2	0.13 (4)	10.00			
H-G	0 / 490	-18.2	-18.2	0.22 (4)	10.00			
G-F	0 / 490	-18.2	-18.2	0.22 (4)	10.00			
F-E	0 / 0	-18.2	-18.2	0.19 (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

LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM

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
 - TPC 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 (0.55")
 CALCULATED VERT. DEFL.(LL) = L/999 (0.02")
 ALLOWABLE DEFL.(TL) = L/360 (0.55")
 CALCULATED VERT. DEFL.(TL) = L/999 (0.09")

CSI: TC=0.85/0.97 (A-I-1), BC=0.22/0.97 (F-H-4), WB=0.25/0.97 (B-H-1), SS=0.23/1.00 (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 (PS) (PL) (PL)
 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= 0.88 (B) (INPUT = 0.90)
 JSI METAL = 0.29 (H) (INPUT = 1.00)



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.

