JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
IM0723-101	T03	1	1	TRUSS DESC.	

MHP 23032

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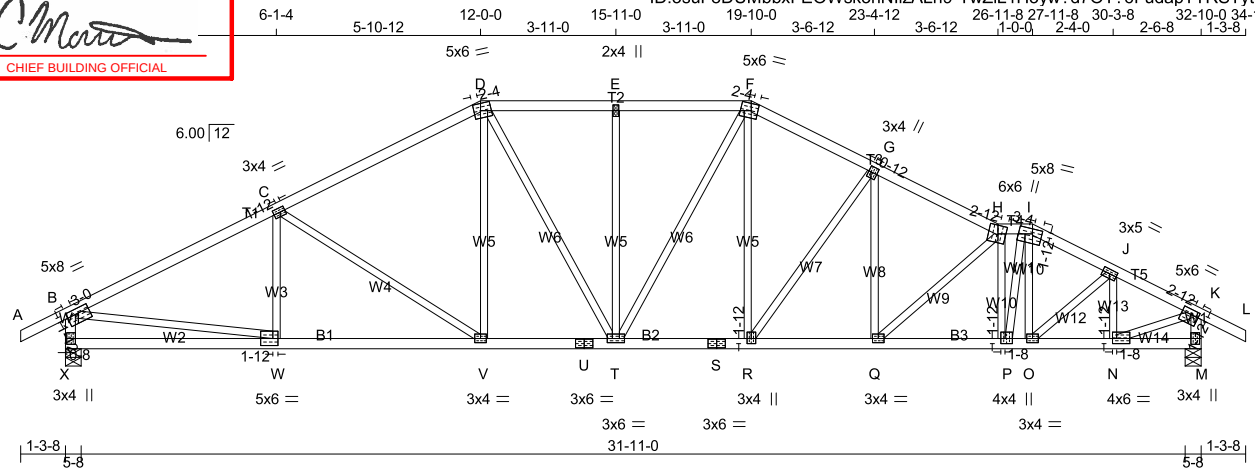

TOTAL WEIGHT = 151 lb [M][F]

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
H - I	2x4	DRY	No.2	SPF
I - L	2x4	DRY	No.2	SPF
X - B	2x4	DRY	No.2	SPF
M - K	2x4	DRY	No.2	SPF
X - U	2x4	DRY	No.2	SPF
U - S	2x4	DRY	No.2	SPF
S - M	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-t	MT20	5.0	8.0	1.75	3.00
C	TMWW-t	MT20	3.0	4.0	1.50	1.75
D	TTWW-m	MT20	5.0	6.0	2.50	2.25
E	TMW+w	MT20	2.0	4.0		
F	TTWW-m	MT20	5.0	6.0	2.50	2.25
G	TMWW+t	MT20	3.0	4.0	2.00	0.75
H	TTWW+m	MT20	6.0	6.0	3.00	2.75
I	TTWW-m	MT20	5.0	8.0	1.75	3.25
J	TMWW-t	MT20	3.0	5.0		
K	TMVW-t	MT20	5.0	6.0	1.75	2.75
M	BMV1+p	MT20	3.0	4.0	2.00	
N	BMWW-t	MT20	4.0	6.0	1.75	1.50
O, Q, V						
O	BMWW-t	MT20	3.0	4.0		
P	BMWW+t	MT20	4.0	4.0	1.75	1.50
R	BMWW+t	MT20	3.0	4.0	1.75	1.50
S	BS-t	MT20	3.0	6.0		
T	BMWWW-t	MT20	3.0	6.0		
U	BS-t	MT20	3.0	6.0		
W	BMWW-t	MT20	5.0	6.0	2.50	1.75
X	BMV1+p	MT20	3.0	4.0	2.00	0.50

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

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
X	2422	0	2422	0	0	5-8	4-6
M	2422	0	2422	0	0	5-8	4-6

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
X	1690	1237 / 0	0 / 0	0 / 0	0 / 0	453 / 0	0 / 0
M	1690	1237 / 0	0 / 0	0 / 0	0 / 0	453 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.99 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 MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD FROM (PLF)	TO	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH
A- B	0 / 36	-119.4	-119.4	0.16 (1)	10.00
B- C	-3330 / 0	-119.4	-119.4	0.78 (1)	2.99
C- D	-2842 / 0	-119.4	-119.4	0.69 (1)	3.32
D- E	-2728 / 0	-119.4	-119.4	0.30 (1)	3.91
E- F	-2728 / 0	-119.4	-119.4	0.30 (1)	3.91
F- G	-2906 / 0	-119.4	-119.4	0.28 (1)	3.83
G- H	-3363 / 0	-119.4	-119.4	0.31 (1)	3.56
H- I	-3149 / 0	-119.4	-119.4	0.11 (1)	3.85
I- J	-3223 / 0	-119.4	-119.4	0.18 (1)	3.75
J- K	-2776 / 0	-119.4	-119.4	0.17 (1)	4.02
K- L	0 / 36	-119.4	-119.4	0.16 (1)	10.00
X- B	-2373 / 0	0.0	0.0	0.24 (1)	5.48
M- K	-2381 / 0	0.0	0.0	0.24 (1)	5.46
X- W	0 / 0	-18.2	-18.2	0.15 (4)	10.00
W- V	0 / 3012	-18.2	-18.2	0.54 (1)	10.00
V- U	0 / 2513	-18.2	-18.2	0.46 (1)	10.00
U- T	0 / 2513	-18.2	-18.2	0.46 (1)	10.00
T- S	0 / 2588	-18.2	-18.2	0.44 (1)	10.00
S- R	0 / 2588	-18.2	-18.2	0.44 (1)	10.00
R- Q	0 / 3030	-18.2	-18.2	0.51 (1)	10.00
Q- P	0 / 3283	-18.2	-18.2	0.61 (1)	10.00
P- O	0 / 2869	-18.2	-18.2	0.56 (1)	10.00
O- N	0 / 2491	-18.2	-18.2	0.50 (1)	10.00
N- M	0 / 0	-18.2	-18.2	0.06 (1)	10.00

WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
W- C	-307 / 27	0.08 (1)
V- D	0 / 427	0.10 (1)
D- T	0 / 433	0.10 (1)
T- E	-561 / 0	0.50 (1)
T- F	0 / 281	0.06 (1)
R- F	0 / 698	0.16 (1)
R- G	-772 / 0	0.53 (1)
Q- G	0 / 319	0.07 (1)
Q- H	-346 / 0	0.14 (1)
P- H	-1504 / 0	0.32 (1)
P- I	0 / 1342	0.30 (1)
O- I	-45 / 0	0.01 (1)
O- J	0 / 505	0.11 (1)
N- J	-862 / 0	0.14 (1)
B- W	0 / 3042	0.68 (1)
N- K	0 / 2629	0.59 (1)

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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
- TPIC 2014

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

ALLOWABLE DEFL.(LL)= L/360 (1.09")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.17")
ALLOWABLE DEFL.(TL)= L/360 (1.09")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.30")

CSI: TC=0.78/0.97 (B-C:1) , BC=0.61/0.97 (P-Q:1) , WB=0.68/0.97 (B-W:1) , SSI=0.31/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

PLATE	GRIP(DRY) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) 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 (J) (INPUT = 0.90)
JSI METAL= 0.74 (S) (INPUT = 1.00)

LICENSED PROFESSIONAL ENGINEER
I.MATIJEVIC
100528832
PROVINCE OF ONTARIO
JULY 14, 2023

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

KOTT

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
IM0723-101	T04	1	1	TRUSS DESC.	

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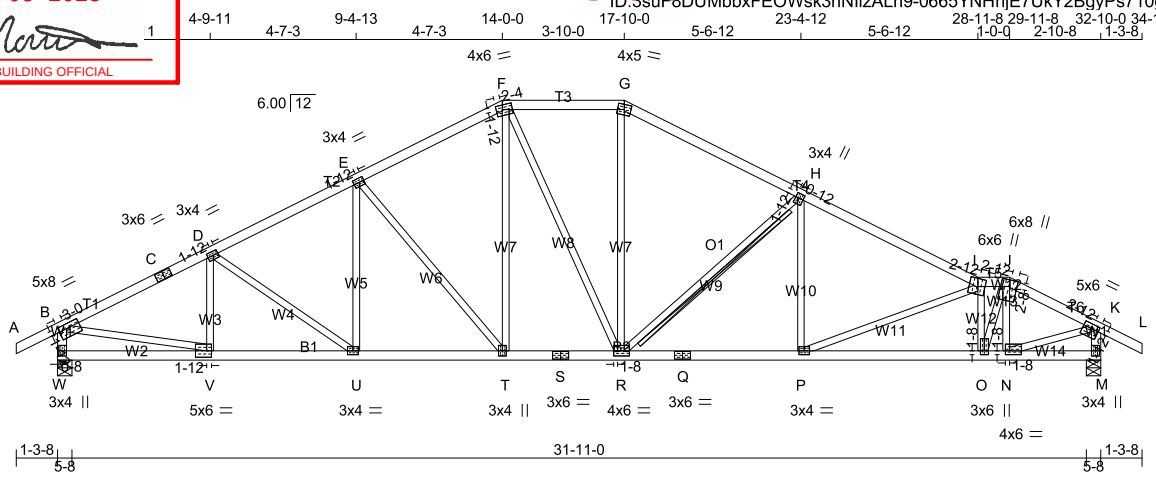

TOTAL WEIGHT = 145 lb [M][F]

LUMBER
N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
A - C	2x4	DRY	No.2	SPF
C - F	2x4	DRY	No.2	SPF
F - G	2x4	DRY	No.2	SPF
G - I	2x4	DRY	No.2	SPF
I - J	2x4	DRY	No.2	SPF
J - L	2x4	DRY	No.2	SPF
W - B	2x4	DRY	No.2	SPF
M - K	2x4	DRY	No.2	SPF
W - S	2x4	DRY	No.2	SPF
S - Q	2x4	DRY	No.2	SPF
Q - M	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-t	MT20	5.0	8.0	1.75	3.00
C	TS-t	MT20	3.0	6.0		
D	TMWW-t	MT20	3.0	4.0	1.50	1.75
E	TMWW-t	MT20	3.0	4.0	1.50	1.75
F	TTWW-m	MT20	4.0	6.0	1.75	2.25
G	TTW-m	MT20	4.0	5.0		
H	TMWW+t	MT20	3.0	4.0	1.75	0.75
I	TTWW+m	MT20	6.0	6.0	3.00	2.75
J	TTWW+m	MT20	6.0	8.0	2.50	2.75
K	TMVW-t	MT20	5.0	6.0	1.75	2.75
M	BMV1+p	MT20	3.0	4.0	2.00	
N	BMWW-t	MT20	4.0	6.0	1.50	1.50
O	BMWW+t	MT20	3.0	6.0	1.50	1.50
P	BMWW-t	MT20	3.0	4.0		
Q	BS-t	MT20	3.0	6.0		
R	BMWWW-t	MT20	4.0	6.0	2.00	1.50
S	BS-t	MT20	3.0	6.0		
T	BMWW+t	MT20	3.0	4.0		
U	BMWW-t	MT20	3.0	4.0		
V	BMWW-t	MT20	5.0	6.0	2.50	1.75
W	BMV1+p	MT20	3.0	4.0	2.00	0.50

JULY 14, 2023

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

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

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
W	2422	0	2422	0	0	5-8	4-6
M	2422	0	2422	0	0	5-8	4-6

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
W	1690	1237 / 0	0 / 0	0 / 0	0 / 0	453 / 0	0 / 0
M	1690	1237 / 0	0 / 0	0 / 0	0 / 0	453 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.10 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.

2x4 DRY SPF No.2 T-BRACE AT H-R

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 MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH
A- B	0 / 36	-119.4	-119.4	0.16 (1)	10.00
B- C	-3241 / 0	-119.4	-119.4	0.47 (1)	3.45
C- D	-3241 / 0	-119.4	-119.4	0.47 (1)	3.45
D- E	-3103 / 0	-119.4	-119.4	0.39 (1)	3.62
E- F	-2599 / 0	-119.4	-119.4	0.37 (1)	3.92
F- G	-2345 / 0	-119.4	-119.4	0.29 (1)	4.18
G- H	-2649 / 0	-119.4	-119.4	0.59 (1)	3.59
H- I	-3418 / 0	-119.4	-119.4	0.68 (1)	3.10
I- J	-3261 / 0	-119.4	-119.4	0.12 (1)	3.79
J- K	-2928 / 0	-119.4	-119.4	0.22 (1)	3.88
K- L	0 / 36	-119.4	-119.4	0.16 (1)	10.00
W- B	-2380 / 0	0.0	0.0	0.24 (1)	5.46
M- K	-2402 / 0	0.0	0.0	0.24 (1)	5.45
W- V	0 / 0	-18.2	-18.2	0.09 (4)	10.00
V- U	0 / 2918	-18.2	-18.2	0.51 (1)	10.00
U- T	0 / 2775	-18.2	-18.2	0.49 (1)	10.00
T- S	0 / 2310	-18.2	-18.2	0.42 (1)	10.00
S- R	0 / 2310	-18.2	-18.2	0.42 (1)	10.00
R- Q	0 / 3091	-18.2	-18.2	0.56 (1)	10.00
Q- P	0 / 3091	-18.2	-18.2	0.56 (1)	10.00
P- O	0 / 3340	-18.2	-18.2	0.63 (1)	10.00
O- N	0 / 2586	-18.2	-18.2	0.45 (1)	10.00
N- M	0 / 0	-18.2	-18.2	0.04 (4)	10.00

WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
V- D	-437 / 0	0.09 (1)
D- U	-175 / 0	0.09 (1)
U- E	0 / 191	0.04 (1)
E- T	-734 / 0	0.75 (1)
T- F	0 / 629	0.14 (1)
F- R	0 / 82	0.02 (1)
R- G	0 / 690	0.16 (1)
R- H	-1013 / 0	0.44 (1)
P- H	0 / 221	0.06 (4)
P- I	-270 / 0	0.18 (1)
O- I	-1751 / 0	0.28 (1)
O- J	0 / 1862	0.42 (1)
N- J	-652 / 0	0.11 (1)
B- V	0 / 2965	0.67 (1)
N- K	0 / 2722	0.61 (1)

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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
- TPIC 2014

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

ALLOWABLE DEFL.(LL)= L/360 (1.09")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.17")
ALLOWABLE DEFL.(TL)= L/360 (1.09")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.30")

CSI: TC=0.68/0.97 (H-I:1) , BC=0.63/0.97 (O-P:1) , WB=0.75/0.97 (E-T:1) , SSI=0.29/1.00 (H-I:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

PLATE	GRIP(DRY) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) 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 (T) (INPUT = 0.90)
JSI METAL= 0.93 (Q) (INPUT = 1.00)

KOTT

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
IM0723-101	T05	1	1	TRUSS DESC.	

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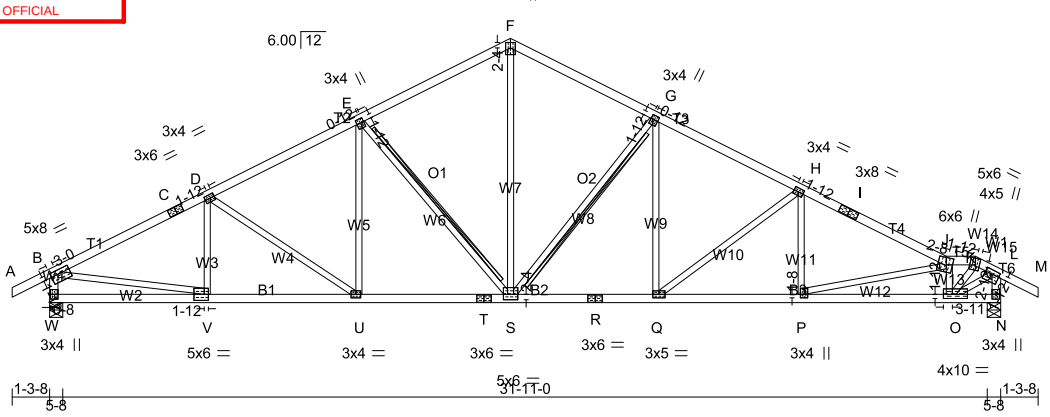

TOTAL WEIGHT = 141 lb [M][F]

LUMBER

N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
A - C	2x4	DRY	No.2	SPF
C - F	2x4	DRY	No.2	SPF
F - I	2x4	DRY	No.2	SPF
I - J	2x4	DRY	No.2	SPF
J - K	2x4	DRY	No.2	SPF
K - M	2x4	DRY	No.2	SPF
W - B	2x4	DRY	No.2	SPF
N - L	2x4	DRY	No.2	SPF
W - T	2x4	DRY	No.2	SPF
T - R	2x4	DRY	No.2	SPF
R - N	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-t	MT20	5.0	8.0	1.75	3.00
C	TS-t	MT20	3.0	6.0		
D	TMWW-t	MT20	3.0	4.0	1.50	1.75
E	TMWW+t	MT20	3.0	4.0	1.75	0.75
F	TTW+p	MT20	4.0	5.0	2.25	2.00
G	TMWW+t	MT20	3.0	4.0	1.75	0.75
H	TMWW-t	MT20	3.0	4.0	1.50	1.75
I	TS-t	MT20	3.0	8.0		
J	TTWW+m	MT20	6.0	6.0	3.00	2.50
K	TTW+m	MT20	4.0	5.0	2.75	1.75
L	TMVW-t	MT20	5.0	6.0	1.75	3.00
N	BMV1+p	MT20	3.0	4.0	2.00	
O	BMWWW-t	MT20	4.0	10.0	1.75	3.75
P	BMWW+t	MT20	3.0	4.0	1.50	1.50
Q	BMWW-t	MT20	3.0	5.0		
R	BS-t	MT20	3.0	6.0		
S	BMWWW-t	MT20	5.0	6.0	2.25	3.00
T	BS-t	MT20	3.0	6.0		
U	BMWW-t	MT20	3.0	4.0		
V	BMWW-t	MT20	5.0	6.0	2.50	1.75
W	BMV1+p	MT20	3.0	4.0	2.00	0.50

JULY 14, 2023

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

BEARINGS

	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION			INPUT	REQRD
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	BRG	BRG
W	2419	0	2419	0	0	IN-SX	IN-SX
N	2426	0	2426	0	0	5-8	4-6
						5-8	4-6

UNFACTORED REACTIONS

	1ST LCASE	MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
W	1688	1235 / 0	0 / 0	0 / 0	0 / 0	453 / 0	0 / 0
N	1693	1239 / 0	0 / 0	0 / 0	0 / 0	453 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.18 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 E-S, G-S

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. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
A- B	0 / 36	-119.4	-119.4	0.16 (1)	10.00	V- D	-365 / 0	0.09 (1)
B- C	-3280 / 0	-119.4	-119.4	0.60 (1)	3.29	D- U	-340 / 0	0.24 (1)
C- D	-3280 / 0	-119.4	-119.4	0.60 (1)	3.29	U- E	0 / 285	0.06 (1)
D- E	-2993 / 0	-119.4	-119.4	0.49 (1)	3.57	E- S	-891 / 0	0.44 (1)
E- F	-2376 / 0	-119.4	-119.4	0.46 (1)	3.96	S- F	0 / 1606	0.36 (1)
F- G	-2375 / 0	-119.4	-119.4	0.42 (1)	4.01	S- G	-1051 / 0	0.52 (1)
G- H	-3081 / 0	-119.4	-119.4	0.46 (1)	3.56	Q- G	0 / 493	0.11 (1)
H- I	-3656 / 0	-119.4	-119.4	0.56 (1)	3.18	Q- H	-677 / 0	0.48 (1)
I- J	-3656 / 0	-119.4	-119.4	0.56 (1)	3.18	P- H	0 / 94	0.03 (4)
J- K	-2533 / 0	-119.4	-119.4	0.08 (1)	4.27	P- J	0 / 342	0.08 (1)
K- L	-2267 / 0	-119.4	-119.4	0.17 (1)	4.38	O- J	-2076 / 0	0.30 (1)
L- M	0 / 36	-119.4	-119.4	0.16 (1)	10.00	O- K	0 / 1163	0.26 (1)
W- B	-2373 / 0	0.0	0.0	0.24 (1)	5.48	B- V	0 / 2994	0.67 (1)
N- L	-2400 / 0	0.0	0.0	0.24 (1)	5.45	O- L	0 / 2234	0.50 (1)
W- V	0 / 0	-18.2	-18.2	0.11 (4)	10.00			
V- U	0 / 2957	-18.2	-18.2	0.53 (1)	10.00			
U- T	0 / 2677	-18.2	-18.2	0.49 (1)	10.00			
T- S	0 / 2677	-18.2	-18.2	0.49 (1)	10.00			
S- R	0 / 2756	-18.2	-18.2	0.51 (1)	10.00			
R- Q	0 / 2756	-18.2	-18.2	0.51 (1)	10.00			
Q- P	0 / 3295	-18.2	-18.2	0.57 (1)	10.00			
P- O	0 / 2964	-18.2	-18.2	0.56 (1)	10.00			
O- N	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 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 (1.09")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.18")
ALLOWABLE DEFL.(TL)= L/360 (1.09")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.31")

CSI: TC=0.60/0.97 (B-D:1) , BC=0.57/0.97 (P-Q:1) , WB=0.67/0.97 (B-V:1) , SSI=0.27/1.00 (B-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

PLATE	GRIP(DRY) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) 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 (K) (INPUT = 0.90)
JSI METAL= 0.84 (R) (INPUT = 1.00)

KOTT

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
IM0723-101	T06	7	1	TRUSS DESC.	

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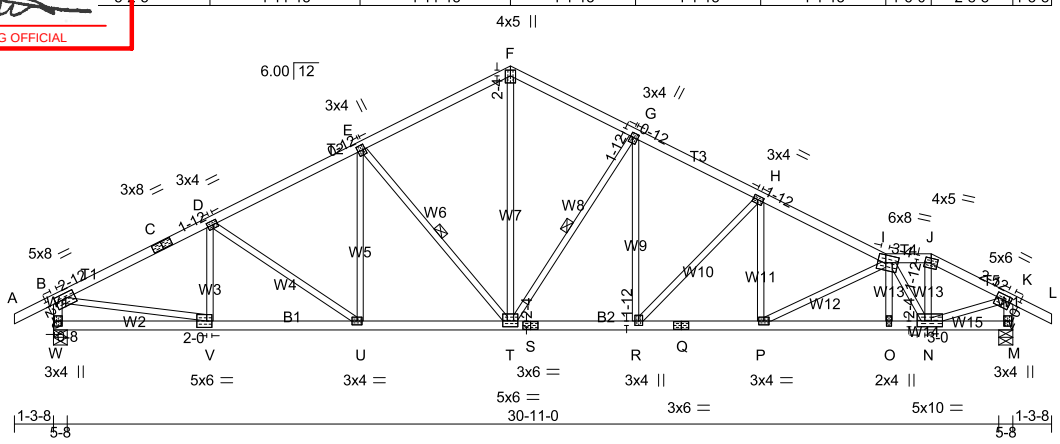

TOTAL WEIGHT = 7 X 140 = 980 lb

[M][F]

LUMBER

N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
A - C	2x4	DRY	No.2	SPF
C - F	2x4	DRY	No.2	SPF
F - I	2x4	DRY	No.2	SPF
I - J	2x4	DRY	No.2	SPF
J - L	2x4	DRY	No.2	SPF
W - B	2x4	DRY	No.2	SPF
M - K	2x4	DRY	No.2	SPF
W - S	2x4	DRY	No.2	SPF
S - Q	2x4	DRY	No.2	SPF
Q - M	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-t	MT20	5.0	8.0	2.00	2.75
C	TS-t	MT20	3.0	8.0		
D	TMWW-t	MT20	3.0	4.0	1.50	1.75
E	TMWW+t	MT20	3.0	4.0	2.00	0.75
F	TTW+p	MT20	4.0	5.0	2.25	2.00
G	TMWW+t	MT20	3.0	4.0	1.75	0.75
H	TMWW-t	MT20	3.0	4.0	1.50	1.75
I	TTWWW-m	MT20	6.0	8.0	3.00	3.25
J	TTW-m	MT20	4.0	5.0	1.75	2.50
K	TMVW-t	MT20	5.0	6.0	2.00	2.75
M	BMV1+p	MT20	3.0	4.0	2.00	
N	BMWWW-t	MT20	5.0	10.0	2.25	3.00
O	BMW+w	MT20	2.0	4.0		
P	BMWW-t	MT20	3.0	4.0		
Q	BS-t	MT20	3.0	6.0		
R	BMWW+t	MT20	3.0	4.0	1.75	1.50
S	BS-t	MT20	3.0	6.0		
T	BMWWW-t	MT20	5.0	6.0	2.25	3.00
U	BMWW-t	MT20	3.0	4.0		
V	BMWW-t	MT20	5.0	6.0	2.50	2.00
W	BMV1+p	MT20	3.0	4.0	2.00	0.50

JULY 14, 2023

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

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

BEARINGS

	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION			INPUT	REQRD
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	BRG	BRG
W	2353	0	2353	0	0	IN-SX	IN-SX
M	2353	0	2353	0	0	5-8	4-2
						5-8	4-2

UNFACTORED REACTIONS

	1ST LCASE	MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
W	1642	1203 / 0	0 / 0	0 / 0	0 / 0	440 / 0	0 / 0
M	1642	1203 / 0	0 / 0	0 / 0	0 / 0	440 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.39 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 E-T, G-T. DBS = 20-0-0 . CBF = 132 LBS.

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS						WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD LC1 (PLF)		MAX CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)	
FR-TO		FROM	TO			FR-TO			
A- B	0 / 36	-119.4	-119.4	0.16 (1)	10.00	V- D	-375 / 0	0.08 (1)	
B- C	-3156 / 0	-119.4	-119.4	0.53 (1)	3.42	D- U	-295 / 0	0.19 (1)	
C- D	-3156 / 0	-119.4	-119.4	0.53 (1)	3.42	U- E	0 / 257	0.06 (1)	
D- E	-2910 / 0	-119.4	-119.4	0.44 (1)	3.67	E- T	-834 / 0	0.34 (1)	
E- F	-2335 / 0	-119.4	-119.4	0.42 (1)	4.05	T- F	0 / 1622	0.37 (1)	
F- G	-2331 / 0	-119.4	-119.4	0.29 (1)	4.20	T- G	-1059 / 0	0.41 (1)	
G- H	-2957 / 0	-119.4	-119.4	0.31 (1)	3.77	R- G	0 / 634	0.14 (1)	
H- I	-3555 / 0	-119.4	-119.4	0.39 (1)	3.39	R- H	-798 / 0	0.49 (1)	
I- J	-2523 / 0	-119.4	-119.4	0.10 (1)	4.25	P- H	0 / 303	0.07 (1)	
J- K	-2772 / 0	-119.4	-119.4	0.19 (1)	4.00	P- I	-435 / 0	0.16 (1)	
K- L	0 / 36	-119.4	-119.4	0.16 (1)	10.00	O- I	0 / 48	0.02 (4)	
W- B	-2309 / 0	0.0	0.0	0.23 (1)	5.54	I- N	-1994 / 0	0.34 (1)	
M- K	-2325 / 0	0.0	0.0	0.23 (1)	5.52	N- J	0 / 996	0.22 (1)	
						B- V	0 / 2883	0.65 (1)	
W- V	0 / 0	-18.2	-18.2	0.10 (4)	10.00	N- K	0 / 2589	0.58 (1)	
V- U	0 / 2845	-18.2	-18.2	0.51 (1)	10.00				
U- T	0 / 2602	-18.2	-18.2	0.48 (1)	10.00				
T- S	0 / 2645	-18.2	-18.2	0.48 (1)	10.00				
S- R	0 / 2645	-18.2	-18.2	0.48 (1)	10.00				
R- Q	0 / 3200	-18.2	-18.2	0.55 (1)	10.00				
Q- P	0 / 3200	-18.2	-18.2	0.55 (1)	10.00				
P- O	0 / 3584	-18.2	-18.2	0.65 (1)	10.00				
O- N	0 / 3584	-18.2	-18.2	0.63 (1)	10.00				
N- M	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 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
- TPIC 2014

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

ALLOWABLE DEFL.(LL)= L/360 (1.06")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.18")
ALLOWABLE DEFL.(TL)= L/360 (1.06")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.32")

CSI: TC=0.53/0.97 (B-D:1) , BC=0.65/0.97 (O-P:1) , WB=0.65/0.97 (B-V:1) , SSI=0.25/1.00 (B-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (K) (INPUT = 0.90)
JSI METAL= 0.96 (Q) (INPUT = 1.00)

KOTT

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
IM0723-101	T07	1	1	TRUSS DESC.	

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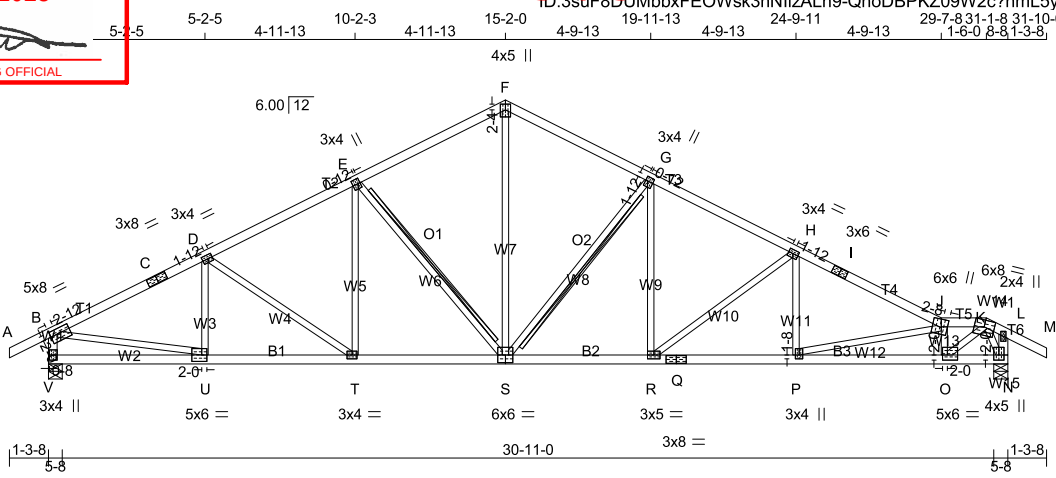

TOTAL WEIGHT = 135 lb [M][F]

LUMBER

N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
A - C	2x4	DRY	No.2	SPF
C - F	2x4	DRY	No.2	SPF
F - I	2x4	DRY	No.2	SPF
I - J	2x4	DRY	No.2	SPF
J - K	2x4	DRY	No.2	SPF
K - M	2x4	DRY	No.2	SPF
V - B	2x4	DRY	No.2	SPF
N - L	2x4	DRY	No.2	SPF
V - S	2x4	DRY	No.2	SPF
S - Q	2x4	DRY	No.2	SPF
Q - N	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-t	MT20	5.0	8.0	2.00	2.75
C	TS-t	MT20	3.0	8.0		
D	TMWW-t	MT20	3.0	4.0	1.50	1.75
E	TMWW+t	MT20	3.0	4.0	2.00	0.75
F	TTW+p	MT20	4.0	5.0	2.25	2.00
G	TMWW+t	MT20	3.0	4.0	1.75	0.75
H	TMWW-t	MT20	3.0	4.0	1.50	1.75
I	TS-t	MT20	3.0	6.0		
J	TTWW+m	MT20	6.0	6.0	3.00	2.50
K	TTWW-m	MT20	6.0	8.0	Edge	
L	TMV+p	MT20	2.0	4.0		
N	BMVW1+p	MT20	4.0	5.0	2.00	2.00
O	BMWW-t	MT20	5.0	6.0	2.00	2.00
P	BMWW+t	MT20	3.0	4.0	1.50	1.50
Q	BS-t	MT20	3.0	8.0		
R	BMWW-t	MT20	3.0	5.0		
S	BSWWW-I	MT20	6.0	6.0		
T	BMWW-t	MT20	3.0	4.0		
U	BMWW-t	MT20	5.0	6.0	2.50	2.00
V	BMV1+p	MT20	3.0	4.0	2.00	0.50

Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.

JULY 14, 2023

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

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

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
V	2350	0	2350	0	0	5-8	4-2
N	2357	0	2357	0	0	5-8	2-13

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
V	1640	1201 / 0	0 / 0	0 / 0	0 / 0	439 / 0	0 / 0
N	1645	1205 / 0	0 / 0	0 / 0	0 / 0	440 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.18 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 E-S, G-S

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 MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
A- B	0 / 36	-119.4	-119.4	0.16 (1)	10.00	U- D	-377 / 0	0.09 (1)
B- C	-3149 / 0	-119.4	-119.4	0.53 (1)	3.43	D- T	-293 / 0	0.19 (1)
C- D	-3149 / 0	-119.4	-119.4	0.53 (1)	3.43	T- E	0 / 269	0.06 (1)
D- E	-2906 / 0	-119.4	-119.4	0.44 (1)	3.67	E- S	-845 / 0	0.38 (1)
E- F	-2323 / 0	-119.4	-119.4	0.42 (1)	4.06	S- F	0 / 1580	0.36 (1)
F- G	-2322 / 0	-119.4	-119.4	0.39 (1)	4.10	S- G	-1095 / 0	0.49 (1)
G- H	-3062 / 0	-119.4	-119.4	0.42 (1)	3.61	R- G	0 / 567	0.13 (1)
H- I	-3740 / 0	-119.4	-119.4	0.53 (1)	3.18	R- H	-789 / 0	0.50 (1)
I- J	-3740 / 0	-119.4	-119.4	0.53 (1)	3.18	P- H	0 / 155	0.04 (4)
J- K	-3393 / 0	-119.4	-119.4	0.15 (1)	3.69	P- J	-198 / 0	0.09 (1)
K- L	-66 / 0	-119.4	-119.4	0.12 (1)	6.25	O- J	-1979 / 0	0.28 (1)
L- M	0 / 36	-119.4	-119.4	0.16 (1)	10.00	O- K	0 / 2977	0.67 (1)
V- B	-2305 / 0	0.0	0.0	0.23 (1)	5.54	B- U	0 / 2877	0.65 (1)
N- L	-354 / 0	0.0	0.0	0.04 (1)	7.81	K- N	-2289 / 0	0.33 (1)
V- U	0 / 0	-18.2	-18.2	0.10 (4)	10.00			
U- T	0 / 2839	-18.2	-18.2	0.50 (1)	10.00			
T- S	0 / 2598	-18.2	-18.2	0.47 (1)	10.00			
S- R	0 / 2739	-18.2	-18.2	0.50 (1)	10.00			
R- Q	0 / 3370	-18.2	-18.2	0.58 (1)	10.00			
Q- P	0 / 3370	-18.2	-18.2	0.58 (1)	10.00			
P- O	0 / 3561	-18.2	-18.2	0.67 (1)	10.00			
O- N	0 / 1184	-18.2	-18.2	0.26 (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 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
- 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 (1.06")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.19")
ALLOWABLE DEFL.(TL)= L/360 (1.06")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.33")

CSI: TC=0.53/0.97 (B-D:1) , BC=0.67/0.97 (O-P:1) , WB=0.67/0.97 (K-O:1) , SSI=0.25/1.00 (B-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

PLATE	GRIP(DRY) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) 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 (O) (INPUT = 0.90)
JSI METAL= 0.95 (Q) (INPUT = 1.00)

KOTT

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
IM0723-101	T08	2	1	TRUSS DESC.	

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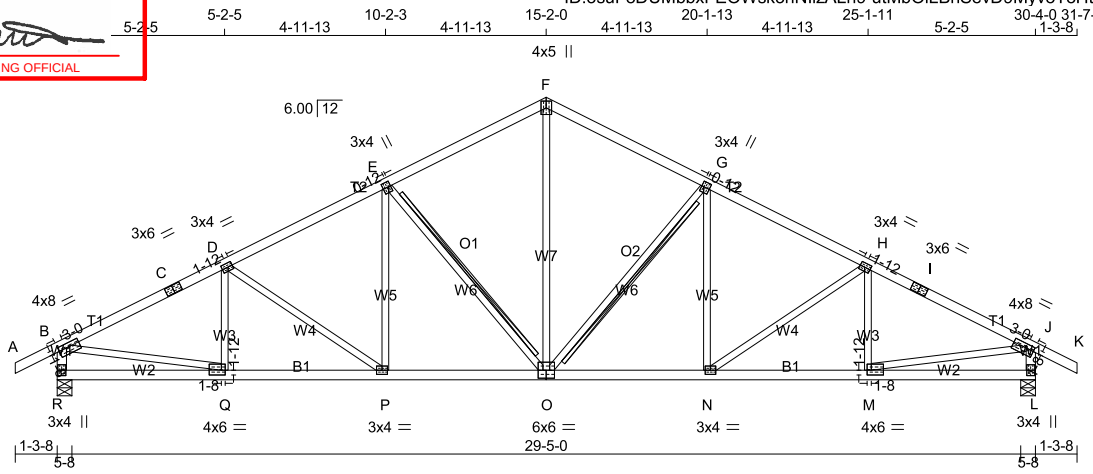

TOTAL WEIGHT = 2 X 129 = 258 lb

[M][F]

LUMBER

N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
A - C	2x4	DRY	No.2	SPF
C - F	2x4	DRY	No.2	SPF
F - I	2x4	DRY	No.2	SPF
I - K	2x4	DRY	No.2	SPF
R - B	2x4	DRY	No.2	SPF
L - J	2x4	DRY	No.2	SPF
R - O	2x4	DRY	No.2	SPF
O - L	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-t	MT20	4.0	8.0	1.50	3.00
C	TS-t	MT20	3.0	6.0		
D	TMWW-t	MT20	3.0	4.0	1.50	1.75
E	TMWW+t	MT20	3.0	4.0	2.00	0.75
F	TTW+p	MT20	4.0	5.0		
G	TMWW+t	MT20	3.0	4.0	2.00	0.75
H	TMWW-t	MT20	3.0	4.0	1.50	1.75
I	TS-t	MT20	3.0	6.0		
J	TMVW-t	MT20	4.0	8.0	1.50	3.00
L	BMV1+p	MT20	3.0	4.0		
M	BMWW-t	MT20	4.0	6.0	1.75	1.50
N	BMWW-t	MT20	3.0	4.0		
O	BSWWW-I	MT20	6.0	6.0		
P	BMWW-t	MT20	3.0	4.0		
Q	BMWW-t	MT20	4.0	6.0	1.75	1.50
R	BMV1+p	MT20	3.0	4.0		

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

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
R	2250	0	2250	0	0	5-8	3-13
L	2250	0	2250	0	0	5-8	3-13

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
R	1570	1150 / 0	0 / 0	0 / 0	0 / 0	420 / 0	0 / 0
L	1570	1150 / 0	0 / 0	0 / 0	0 / 0	420 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.53 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 G-O, E-O

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 MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
A- B	0 / 36	-119.4	-119.4	0.16 (1)	10.00	O- F	0 / 1393	0.31 (1)
B- C	-2982 / 0	-119.4	-119.4	0.52 (1)	3.53	O- G	-859 / 0	0.39 (1)
C- D	-2982 / 0	-119.4	-119.4	0.52 (1)	3.53	N- G	0 / 284	0.06 (1)
D- E	-2715 / 0	-119.4	-119.4	0.42 (1)	3.80	N- H	-319 / 0	0.20 (1)
E- F	-2123 / 0	-119.4	-119.4	0.40 (1)	4.23	M- H	-352 / 0	0.08 (1)
F- G	-2123 / 0	-119.4	-119.4	0.40 (1)	4.23	E- O	-859 / 0	0.39 (1)
G- H	-2715 / 0	-119.4	-119.4	0.42 (1)	3.80	P- E	0 / 284	0.06 (1)
H- I	-2982 / 0	-119.4	-119.4	0.52 (1)	3.53	D- P	-319 / 0	0.20 (1)
I- J	-2982 / 0	-119.4	-119.4	0.52 (1)	3.53	Q- D	-352 / 0	0.08 (1)
J- K	0 / 36	-119.4	-119.4	0.16 (1)	10.00	B- Q	0 / 2726	0.61 (1)
R- B	-2206 / 0	0.0	0.0	0.22 (1)	5.65	M- J	0 / 2726	0.61 (1)
L- J	-2206 / 0	0.0	0.0	0.22 (1)	5.65			
R- Q	0 / 0	-18.2	-18.2	0.10 (4)	10.00			
Q- P	0 / 2690	-18.2	-18.2	0.48 (1)	10.00			
P- O	0 / 2428	-18.2	-18.2	0.44 (1)	10.00			
O- N	0 / 2428	-18.2	-18.2	0.44 (1)	10.00			
N- M	0 / 2690	-18.2	-18.2	0.48 (1)	10.00			
M- L	0 / 0	-18.2	-18.2	0.10 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (1.01")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.14")
ALLOWABLE DEFL.(TL)= L/360 (1.01")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.26")

CSI: TC=0.52/0.97 (B-D:1) , BC=0.48/0.97 (M-N:1) , WB=0.61/0.97 (B-Q:1) , SSI=0.26/1.00 (B-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

PLATE	GRIP(DRY) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) 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= 0.64 (M) (INPUT = 1.00)

JULY 14, 2023

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

KOTT

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
IM0723-101	T09	1	1	TRUSS DESC	

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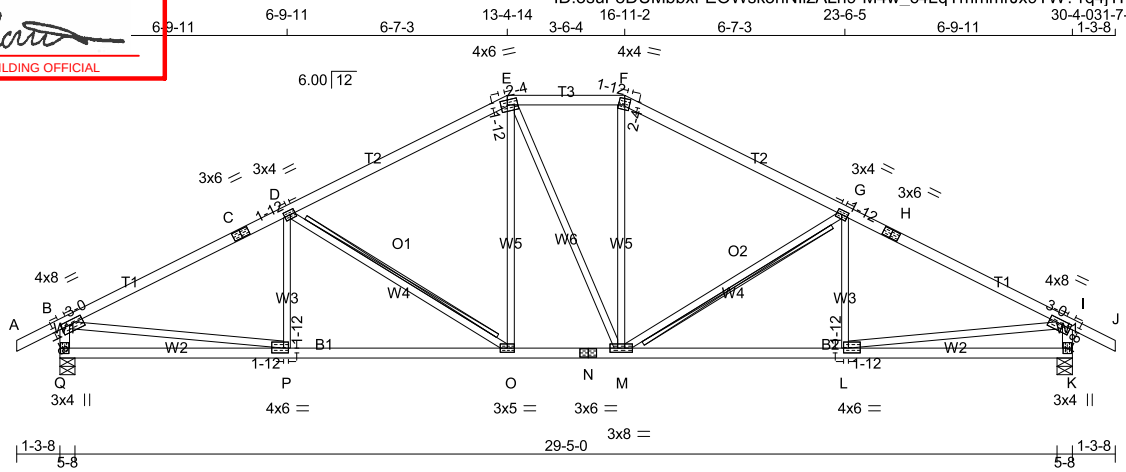

TOTAL WEIGHT = 126 lb [M][F]

LUMBER

N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
A - C	2x4	DRY	No.2	SPF
C - E	2x4	DRY	No.2	SPF
E - F	2x4	DRY	No.2	SPF
F - H	2x4	DRY	No.2	SPF
H - J	2x4	DRY	No.2	SPF
Q - B	2x4	DRY	No.2	SPF
K - I	2x4	DRY	No.2	SPF
Q - N	2x4	DRY	No.2	SPF
N - K	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-t	MT20	4.0	8.0	1.50	3.00
C	TS-t	MT20	3.0	6.0		
D	TMWW-t	MT20	3.0	4.0	1.50	1.75
E	TTWW-m	MT20	4.0	6.0	1.75	2.25
F	TTW-m	MT20	4.0	4.0	2.25	1.75
G	TMWW-t	MT20	3.0	4.0	1.50	1.75
H	TS-t	MT20	3.0	6.0		
I	TMVW-t	MT20	4.0	8.0	1.50	3.00
K	BMV1+p	MT20	3.0	4.0		
L	BMWW-t	MT20	4.0	6.0	1.75	1.75
M	BMWWW-t	MT20	3.0	8.0		
N	BS-t	MT20	3.0	6.0		
O	BMWW-t	MT20	3.0	5.0		
P	BMWW-t	MT20	4.0	6.0	1.75	1.75
Q	BMV1+p	MT20	3.0	4.0		

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

BEARINGS

	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION			INPUT	REQRD
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	BRG	BRG
Q	2250	0	2250	0	0	IN-SX	IN-SX
K	2250	0	2250	0	0	5-8	3-13
						5-8	3-13

UNFACTORED REACTIONS

	1ST LCASE	MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
Q	1570	1150 / 0	0 / 0	0 / 0	0 / 0	420 / 0	0 / 0
K	1570	1150 / 0	0 / 0	0 / 0	0 / 0	420 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.73 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 D-O, G-M

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 MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
A- B	0 / 36	-119.4	-119.4	0.16 (1)	10.00	P- D	-210 / 67	0.07 (1)
B- C	-3036 / 0	-119.4	-119.4	0.95 (1)	2.73	D- O	-819 / 0	0.39 (1)
C- D	-3036 / 0	-119.4	-119.4	0.95 (1)	2.73	O- E	0 / 524	0.12 (1)
D- E	-2350 / 0	-119.4	-119.4	0.82 (1)	3.31	E- M	0 / 3	0.00 (1)
E- F	-2070 / 0	-119.4	-119.4	0.24 (1)	4.47	M- F	0 / 528	0.12 (1)
F- G	-2352 / 0	-119.4	-119.4	0.82 (1)	3.31	M- G	-817 / 0	0.39 (1)
G- H	-3035 / 0	-119.4	-119.4	0.95 (1)	2.73	L- G	-212 / 66	0.07 (1)
H- I	-3035 / 0	-119.4	-119.4	0.95 (1)	2.73	B- P	0 / 2775	0.62 (1)
I- J	0 / 36	-119.4	-119.4	0.16 (1)	10.00	L- I	0 / 2774	0.62 (1)
Q- B	-2197 / 0	0.0	0.0	0.22 (1)	5.66			
K- I	-2197 / 0	0.0	0.0	0.22 (1)	5.66			
Q- P	0 / 0	-18.2	-18.2	0.20 (4)	10.00			
P- O	0 / 2753	-18.2	-18.2	0.53 (1)	10.00			
O- N	0 / 2069	-18.2	-18.2	0.40 (1)	10.00			
N- M	0 / 2069	-18.2	-18.2	0.40 (1)	10.00			
M- L	0 / 2753	-18.2	-18.2	0.53 (1)	10.00			
L- K	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
- TPIC 2014

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

ALLOWABLE DEFL.(LL)= L/360 (1.01")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.14")
ALLOWABLE DEFL.(TL)= L/360 (1.01")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.27")

CSI: TC=0.95/0.97 (B-D:1) , BC=0.53/0.97 (O-P:1) , WB=0.62/0.97 (B-P:1) , SSI=0.35/1.00 (B-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (P) (INPUT = 0.90)
JSI METAL= 0.66 (P) (INPUT = 1.00)

JULY 14, 2023

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

KOTT

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
IM0723-101	T10	1	1	TRUSS DESC.	

MHP 23032

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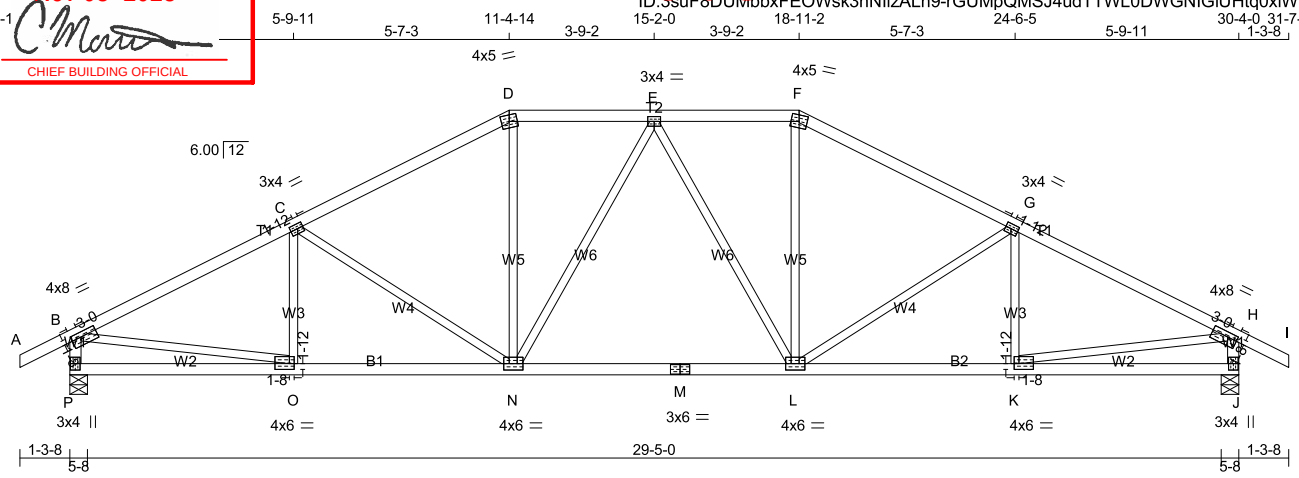

TOTAL WEIGHT = 125 lb

[M][F]

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 - I	2x4	DRY	No.2	SPF
P - B	2x4	DRY	No.2	SPF
J - H	2x4	DRY	No.2	SPF
P - M	2x4	DRY	No.2	SPF
M - J	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-t	MT20	4.0	8.0	1.50	3.00
C	TMWW-t	MT20	3.0	4.0	1.50	1.75
D	TTW-m	MT20	4.0	5.0		
E	TMWW-t	MT20	3.0	4.0		
F	TTW-m	MT20	4.0	5.0		
G	TMWW-t	MT20	3.0	4.0	1.50	1.75
H	TMVW-t	MT20	4.0	8.0	1.50	3.00
J	BMV1+p	MT20	3.0	4.0		
K	BMWW-t	MT20	4.0	6.0	1.75	1.50
L	BMWWW-t	MT20	4.0	6.0		
M	BS-t	MT20	3.0	6.0		
N	BMWWW-t	MT20	4.0	6.0		
O	BMWW-t	MT20	4.0	6.0	1.75	1.50
P	BMV1+p	MT20	3.0	4.0		

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

BEARINGS

	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION			INPUT BRG	REQRD BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
P	2250	0	2250	0	0	5-8	3-13
J	2250	0	2250	0	0	5-8	3-13

UNFACTORED REACTIONS

	1ST LCASE	MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
P	1570	1150 / 0	0 / 0	0 / 0	0 / 0	420 / 0	0 / 0
J	1570	1150 / 0	0 / 0	0 / 0	0 / 0	420 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.30 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 MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
A- B	0 / 36	-119.4	-119.4	0.16 (1)	10.00	O- C	-302 / 15	0.08 (1)
B- C	-3022 / 0	-119.4	-119.4	0.66 (1)	3.30	C- N	-560 / 0	0.49 (1)
C- D	-2572 / 0	-119.4	-119.4	0.60 (1)	3.62	N- D	0 / 704	0.16 (1)
D- E	-2278 / 0	-119.4	-119.4	0.26 (1)	4.27	N- E	-308 / 0	0.35 (1)
E- F	-2278 / 0	-119.4	-119.4	0.26 (1)	4.27	E- L	-308 / 0	0.35 (1)
F- G	-2572 / 0	-119.4	-119.4	0.60 (1)	3.62	L- F	0 / 704	0.16 (1)
G- H	-3022 / 0	-119.4	-119.4	0.66 (1)	3.30	L- G	-560 / 0	0.49 (1)
H- I	0 / 36	-119.4	-119.4	0.16 (1)	10.00	K- G	-302 / 15	0.08 (1)
P- B	-2202 / 0	0.0	0.0	0.22 (1)	5.65	B- O	0 / 2764	0.62 (1)
J- H	-2202 / 0	0.0	0.0	0.22 (1)	5.65	K- H	0 / 2764	0.62 (1)
P- O	0 / 0	-18.2	-18.2	0.13 (4)	10.00			
O- N	0 / 2735	-18.2	-18.2	0.53 (1)	10.00			
N- M	0 / 2428	-18.2	-18.2	0.48 (1)	10.00			
M- L	0 / 2428	-18.2	-18.2	0.48 (1)	10.00			
L- K	0 / 2735	-18.2	-18.2	0.53 (1)	10.00			
K- J	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 (1.01")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.14")
ALLOWABLE DEFL.(TL)= L/360 (1.01")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.28")

CSI: TC=0.66/0.97 (G-H:1) , BC=0.53/0.97 (K-L:1) , WB=0.62/0.97 (H-K:1) , SSI=0.30/1.00 (G-H:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (J) (INPUT = 0.90)
JSI METAL= 0.81 (M) (INPUT = 1.00)

LICENSED PROFESSIONAL ENGINEER
I.MATIJEVIC
100528832
PROVINCE OF ONTARIO
JULY 14, 2023

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

KOTT

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
IM0723-101	T11	1	1	TRUSS DESC.	

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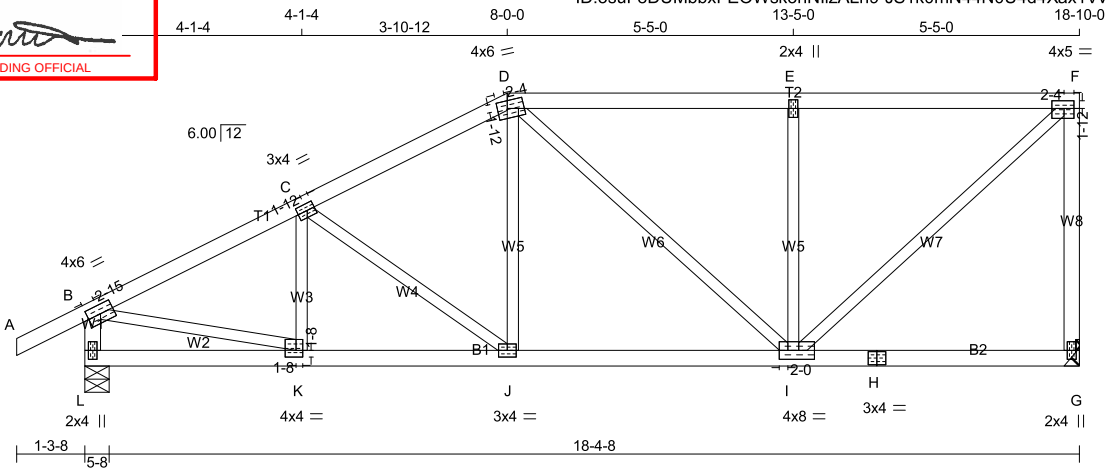

TOTAL WEIGHT = 79 lb [M]

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 - H	2x4	DRY	No.2	SPF
H - 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-t	MT20	4.0	6.0	2.00	3.00
C	TMWW-t	MT20	3.0	4.0	1.50	1.75
D	TTWW-m	MT20	4.0	6.0	1.75	2.25
E	TMW+w	MT20	2.0	4.0		
F	TMVW-t	MT20	4.0	5.0	1.75	2.25
G	BMV1+p	MT20	2.0	4.0		
H	BS-t	MT20	3.0	4.0		
I	BMWWW-t	MT20	4.0	8.0	2.00	2.00
J	BMWW-t	MT20	3.0	4.0		
K	BMWW-t	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

	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION			INPUT	REQRD
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	BRG	BRG
G	1296	0	1296	0	0	MECHANICAL	
L	1459	0	1459	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

	1ST LCASE	MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
G	906	656 / 0	0 / 0	0 / 0	0 / 0	250 / 0	0 / 0
L	1017	750 / 0	0 / 0	0 / 0	0 / 0	267 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.71 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 MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
A- B	0 / 36	-119.4	-119.4	0.16 (1)	10.00	K- C	-246 / 3	0.05 (1)
B- C	-1661 / 0	-119.4	-119.4	0.35 (1)	4.71	C- J	-346 / 0	0.14 (1)
C- D	-1398 / 0	-119.4	-119.4	0.33 (1)	5.05	J- D	0 / 292	0.07 (1)
D- E	-1122 / 0	-119.4	-119.4	0.63 (1)	4.88	D- I	-150 / 0	0.15 (1)
E- F	-1122 / 0	-119.4	-119.4	0.63 (1)	4.88	I- E	-801 / 0	0.32 (1)
G- F	-1255 / 0	0.0	0.0	0.57 (1)	7.10	I- F	0 / 1509	0.34 (1)
L- B	-1423 / 0	0.0	0.0	0.14 (1)	6.76	B- K	0 / 1539	0.35 (1)
L- K	0 / 0	-18.2	-18.2	0.06 (4)	10.00			
K- J	0 / 1507	-18.2	-18.2	0.28 (1)	10.00			
J- I	0 / 1233	-18.2	-18.2	0.26 (1)	10.00			
I- H	0 / 0	-18.2	-18.2	0.13 (4)	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 (0.63")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.04")
ALLOWABLE DEFL.(TL)= L/360 (0.63")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.08")

CSI: TC=0.63/0.97 (E-F:1) , BC=0.28/0.97 (J-K:1) , WB=0.35/0.97 (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) (PSI)		SHEAR (PLI)		SECTION (PLI)	
	MAX	MIN	MAX	MIN	MAX	MIN
MT20	650	371	1747	788	1987	1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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

JULY 14, 2023

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

KOTT

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
IM0723-101	T12	1	1	TRUSS DESC	

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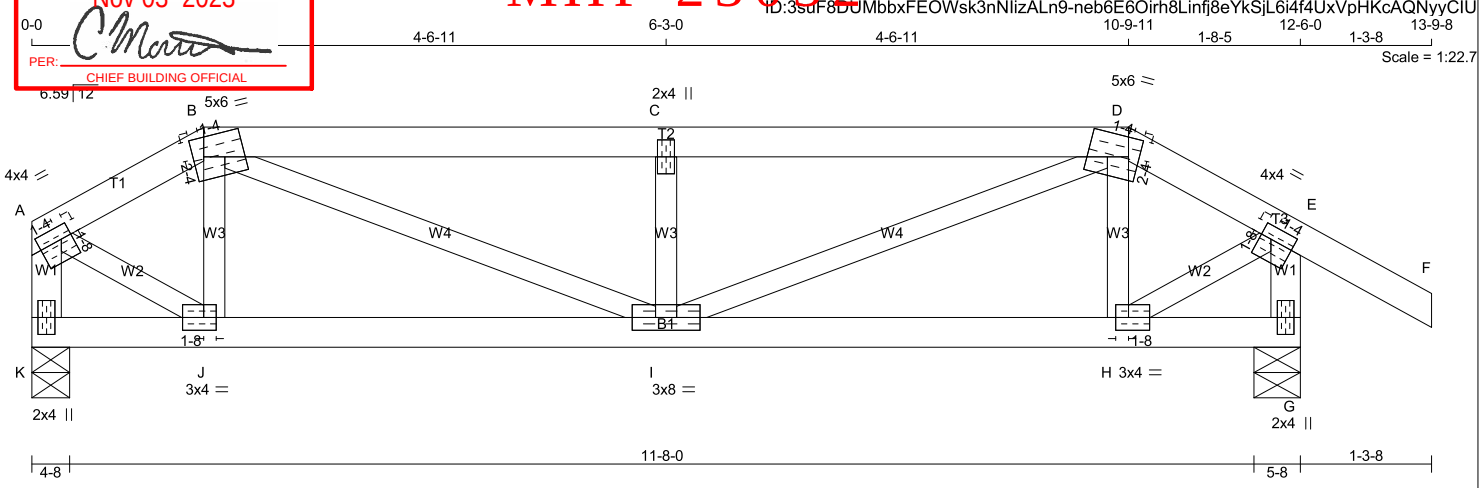

TOTAL WEIGHT = 47 lb [M]

LUMBER
N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
A - B	2x4	DRY	No.2	SPF
B - D	2x4	DRY	No.2	SPF
D - F	2x4	DRY	No.2	SPF
K - A	2x4	DRY	No.2	SPF
G - E	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
A	TMVW-t	MT20	4.0	4.0	1.50	1.25
B	TTWW-m	MT20	5.0	6.0	2.25	1.25
C	TMW+w	MT20	2.0	4.0		
D	TTWW-m	MT20	5.0	6.0	2.25	1.25
E	TMVW-t	MT20	4.0	4.0	1.50	1.25
G	BMV1+p	MT20	2.0	4.0		
H	BMWW-t	MT20	3.0	4.0	1.50	1.50
I	BMWWW-t	MT20	3.0	8.0		
J	BMWW-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

	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION			INPUT BRG	REQRD BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
K	852	0	852	0	0	4-8	1-8
G	1032	0	1032	0	0	5-8	1-8

UNFACTORED REACTIONS

	1ST LCASE	MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
K	595	430 / 0	0 / 0	0 / 0	0 / 0	165 / 0	0 / 0
G	719	535 / 0	0 / 0	0 / 0	0 / 0	183 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.71 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 MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	WEBS MAX. UNBRAC LENGTH	MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
A- B	-808 / 0	-119.4	-119.4	0.07 (1)	6.25	J- B	-275 / 0	0.04 (1)
B- C	-1544 / 0	-119.4	-119.4	0.43 (1)	4.71	B- I	0 / 923	0.21 (1)
C- D	-1544 / 0	-119.4	-119.4	0.43 (1)	4.71	I- C	-657 / 0	0.10 (1)
D- E	-789 / 0	-119.4	-119.4	0.16 (1)	6.25	I- D	0 / 969	0.22 (1)
E- F	0 / 39	-119.4	-119.4	0.16 (1)	10.00	H- D	-251 / 0	0.04 (1)
K- A	-856 / 0	0.0	0.0	0.09 (1)	7.81	A- J	0 / 794	0.18 (1)
G- E	-1037 / 0	0.0	0.0	0.11 (1)	7.63	H- E	0 / 744	0.17 (1)
K- J	0 / 0	-18.2	-18.2	0.06 (4)	10.00			
J- I	0 / 691	-18.2	-18.2	0.16 (1)	10.00			
I- H	0 / 648	-18.2	-18.2	0.16 (1)	10.00			
H- G	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

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 (0.42")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.04")
ALLOWABLE DEFL.(TL)= L/360 (0.42")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.07")

CSI: TC=0.43/0.97 (B-C:1) , BC=0.16/0.97 (I-J:1) , WB=0.22/0.97 (D-I: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) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) 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 (I) (INPUT = 0.90)
JSI METAL= 0.31 (A) (INPUT = 1.00)

JULY 14, 2023

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

KOTT

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
IM0723-101	T12A	1	1	TRUSS DESC	

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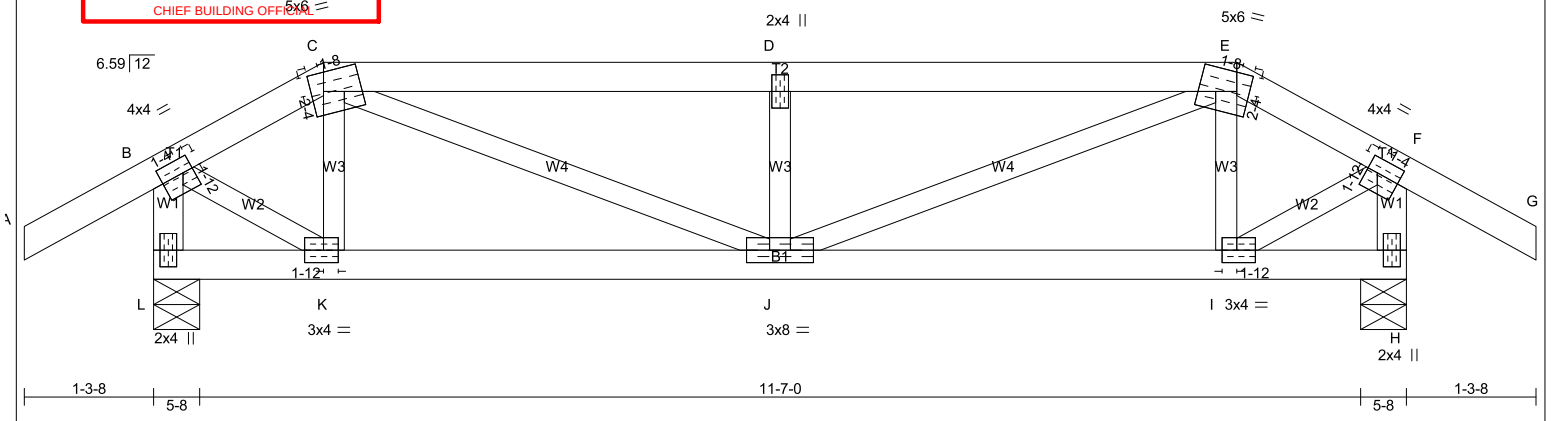

TOTAL WEIGHT = 48 lb [M]

LUMBER

N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
A - C	2x4	DRY	No.2	SPF
C - E	2x4	DRY	No.2	SPF
E - G	2x4	DRY	No.2	SPF
L - B	2x4	DRY	No.2	SPF
H - F	2x4	DRY	No.2	SPF
L - 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-t	MT20	4.0	4.0	1.75	1.25
C	TTWW-m	MT20	5.0	6.0	2.25	1.50
D	TMW+w	MT20	2.0	4.0		
E	TTWW-m	MT20	5.0	6.0	2.25	1.50
F	TMVW-t	MT20	4.0	4.0	1.75	1.25
H	BMV1+p	MT20	2.0	4.0		
I	BMWW-t	MT20	3.0	4.0	1.50	1.75
J	BMWWW-t	MT20	3.0	8.0		
K	BMWW-t	MT20	3.0	4.0	1.50	1.75
L	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	UPLIFT	IN-SX	IN-SX
L	1023	0	1023	0	0	5-8	1-8
H	1023	0	1023	0	0	5-8	1-8

UNFACTORED REACTIONS

	1ST LCASE	MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
L	713	530 / 0	0 / 0	0 / 0	0 / 0	183 / 0	0 / 0
H	713	530 / 0	0 / 0	0 / 0	0 / 0	183 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.75 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 MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
A- B	0 / 39	-119.4	-119.4	0.16 (1)	10.00	K- C	-247 / 0	0.04 (1)
B- C	-779 / 0	-119.4	-119.4	0.16 (1)	6.25	C- J	0 / 946	0.21 (1)
C- D	-1515 / 0	-119.4	-119.4	0.42 (1)	4.75	J- D	-657 / 0	0.10 (1)
D- E	-1515 / 0	-119.4	-119.4	0.42 (1)	4.75	J- E	0 / 946	0.21 (1)
E- F	-779 / 0	-119.4	-119.4	0.16 (1)	6.25	I- E	-247 / 0	0.04 (1)
F- G	0 / 39	-119.4	-119.4	0.16 (1)	10.00	B- K	0 / 735	0.17 (1)
L- B	-1028 / 0	0.0	0.0	0.10 (1)	7.64	I- F	0 / 735	0.17 (1)
H- F	-1028 / 0	0.0	0.0	0.10 (1)	7.64			
L- K	0 / 0	-18.2	-18.2	0.06 (4)	10.00			
K- J	0 / 640	-18.2	-18.2	0.15 (1)	10.00			
J- I	0 / 640	-18.2	-18.2	0.15 (1)	10.00			
I- H	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

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 (0.42")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.04")
ALLOWABLE DEFL.(TL)= L/360 (0.42")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.07")

CSI: TC=0.42/0.97 (D-E:1) , BC=0.15/0.97 (I-J:1) , WB=0.21/0.97 (C-J: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) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) 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 (C) (INPUT = 0.90)
JSI METAL= 0.31 (F) (INPUT = 1.00)

JULY 14, 2023

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

KOTT

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
IM0723-101	T13	1	1	TRUSS DESC	

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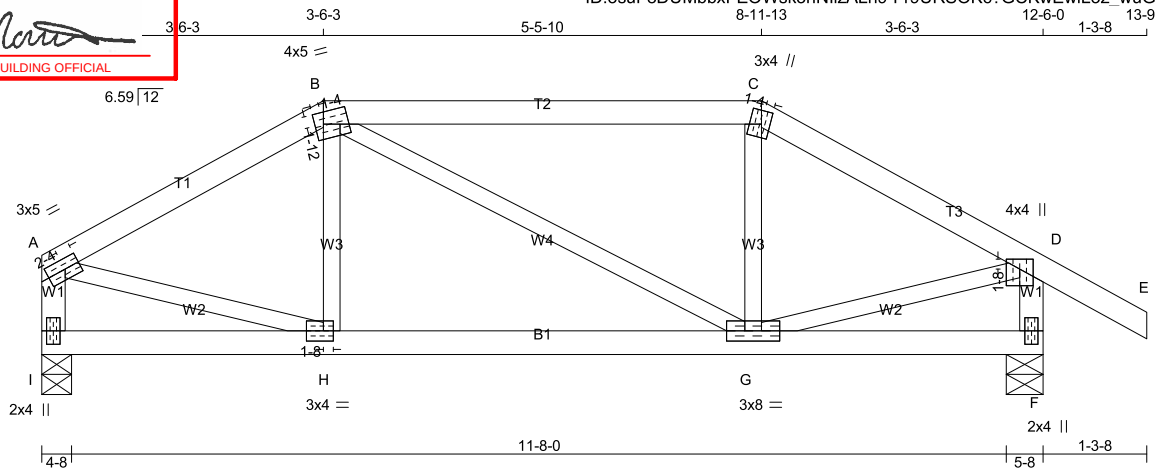

TOTAL WEIGHT = 48 lb

[M][F]

LUMBER

N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
A - B	2x4	DRY	No.2	SPF
B - C	2x4	DRY	No.2	SPF
C - E	2x4	DRY	No.2	SPF
I - A	2x4	DRY	No.2	SPF
F - D	2x4	DRY	No.2	SPF
I - 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	TMVW-t	MT20	3.0	5.0	1.50	2.25
B	TTWW-m	MT20	4.0	5.0	1.75	1.25
C	TTW+m	MT20	3.0	4.0	2.00	1.25
D	TMVW+p	MT20	4.0	4.0	1.50	2.00
F	BMV1+p	MT20	2.0	4.0		
G	BMWWW-t	MT20	3.0	8.0		
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

	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION			INPUT BRG	REQRD BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
I	860	0	860	0	0	4-8	1-8
F	1023	0	1023	0	0	5-8	1-8

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
I	601	435 / 0	0 / 0	0 / 0	0 / 0	166 / 0	0 / 0
F	713	530 / 0	0 / 0	0 / 0	0 / 0	183 / 0	0 / 0

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

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 MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
A- B	-886 / 0	-119.4	-119.4	0.20 (1)	6.25	H- B	-108 / 46	0.02 (1)
B- C	-771 / 0	-119.4	-119.4	0.46 (1)	6.09	B- G	0 / 0	0.00 (1)
C- D	-885 / 0	-119.4	-119.4	0.20 (1)	6.25	G- C	-109 / 46	0.02 (1)
D- E	0 / 39	-119.4	-119.4	0.16 (1)	10.00	A- H	0 / 800	0.18 (1)
I- A	-836 / 0	0.0	0.0	0.08 (1)	7.81	G- D	0 / 800	0.18 (1)
F- D	-998 / 0	0.0	0.0	0.10 (1)	7.74			
I- H	0 / 0	-18.2	-18.2	0.08 (4)	10.00			
H- G	0 / 771	-18.2	-18.2	0.17 (1)	10.00			
G- F	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
- 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 (0.42")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.02")
ALLOWABLE DEFL.(TL)= L/360 (0.42")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.04")

CSI: TC=0.46/0.97 (B-C:1) , BC=0.17/0.97 (G-H:1) , WB=0.18/0.97 (A-H: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) (PSI)		SHEAR (PLI)		SECTION (PLI)	
	MAX	MIN	MAX	MIN	MAX	MIN
MT20	650	371	1747	788	1987	1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (A) (INPUT = 0.90)
JSI METAL= 0.28 (A) (INPUT = 1.00)

JULY 14, 2023

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

KOTT

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
IM0723-101	T13A	1	1	TRUSS DESC.	

Version 8.630 S Mar 22 2023 MiTek Industries, Inc. Fri Jul 14 09:40:49 2023 Page 1
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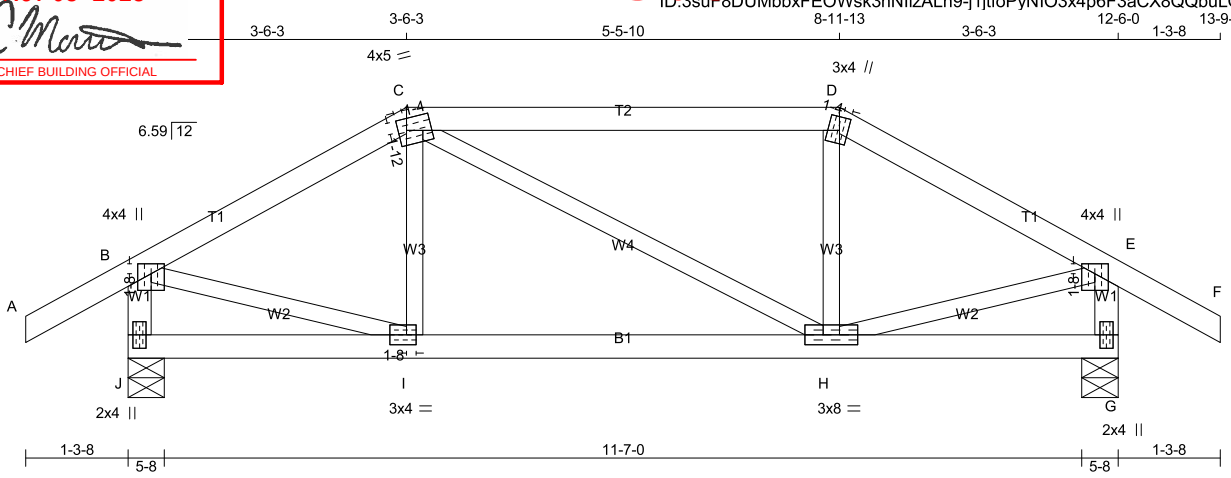

TOTAL WEIGHT = 49 lb [M][F]

LUMBER
N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
A - C	2x4	DRY	No.2	SPF
C - D	2x4	DRY	No.2	SPF
D - F	2x4	DRY	No.2	SPF
J - B	2x4	DRY	No.2	SPF
G - E	2x4	DRY	No.2	SPF
J - 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	2.00
C	TTWW-m	MT20	4.0	5.0	1.75	1.25
D	TTW+m	MT20	3.0	4.0	2.00	1.25
E	TMVW+p	MT20	4.0	4.0	1.50	2.00
G	BMV1+p	MT20	2.0	4.0		
H	BMWWW-t	MT20	3.0	8.0		
I	BMWW-t	MT20	3.0	4.0	1.50	1.50
J	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	UPLIFT	IN-SX	IN-SX
J	1023	0	1023	0	0	5-8	1-8
G	1023	0	1023	0	0	5-8	1-8

UNFACTORED REACTIONS

	1ST LCASE	MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
J	713	530 / 0	0 / 0	0 / 0	0 / 0	183 / 0	0 / 0
G	713	530 / 0	0 / 0	0 / 0	0 / 0	183 / 0	0 / 0

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

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 MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
A- B	0 / 39	-119.4	-119.4	0.16 (1)	10.00	I- C	-109 / 46	0.02 (1)
B- C	-886 / 0	-119.4	-119.4	0.20 (1)	6.25	C- H	0 / 0	0.00 (1)
C- D	-771 / 0	-119.4	-119.4	0.46 (1)	6.09	H- D	-109 / 46	0.02 (1)
D- E	-885 / 0	-119.4	-119.4	0.20 (1)	6.25	B- I	0 / 800	0.18 (1)
E- F	0 / 39	-119.4	-119.4	0.16 (1)	10.00	H- E	0 / 800	0.18 (1)
J- B	-998 / 0	0.0	0.0	0.10 (1)	7.74			
G- E	-998 / 0	0.0	0.0	0.10 (1)	7.74			
J- I	0 / 0	-18.2	-18.2	0.08 (4)	10.00			
I- H	0 / 771	-18.2	-18.2	0.17 (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
- 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 (0.42")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.02")
ALLOWABLE DEFL.(TL)= L/360 (0.42")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.04")

CSI: TC=0.46/0.97 (C-D:1) , BC=0.17/0.97 (H-I:1) , WB=0.18/0.97 (B-I:1) , SSI=0.25/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.85 (B) (INPUT = 0.90)
JSI METAL= 0.26 (I) (INPUT = 1.00)

JULY 14, 2023

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

KOTT

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
IM0723-101	T14	1	1	TRUSS DESC	

MHP 23032

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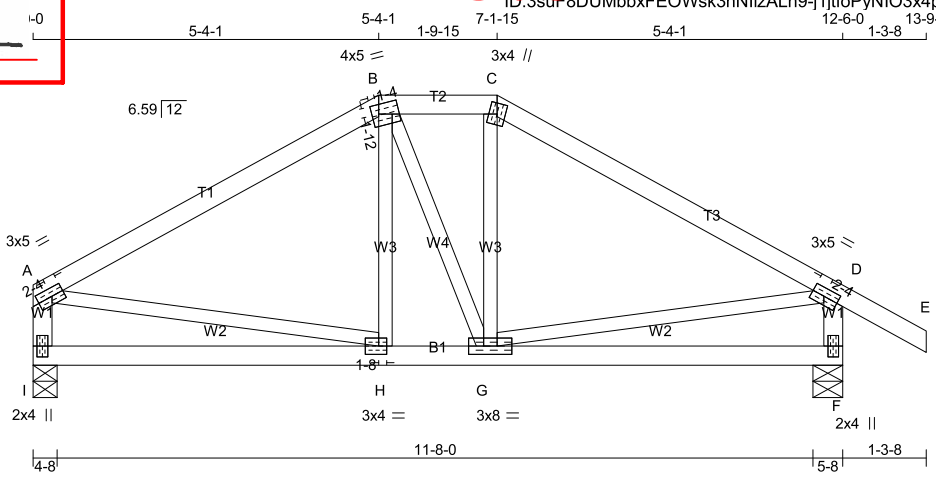

Scale = 1:35.6

TOTAL WEIGHT = 51 lb

[M][F]

LUMBER

N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
A - B	2x4	DRY	No.2	SPF
B - C	2x4	DRY	No.2	SPF
C - E	2x4	DRY	No.2	SPF
I - A	2x4	DRY	No.2	SPF
F - D	2x4	DRY	No.2	SPF
I - 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	TMVW-t	MT20	3.0	5.0	1.50	2.25
B	TTWW-m	MT20	4.0	5.0	1.75	1.25
C	TTW+m	MT20	3.0	4.0		
D	TMVW-t	MT20	3.0	5.0	1.50	2.25
F	BMV1+p	MT20	2.0	4.0		
G	BMWWW-t	MT20	3.0	8.0		
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

	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION			INPUT BRG	REQRD BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
I	860	0	860	0	0	4-8	1-8
F	1023	0	1023	0	0	5-8	1-8

UNFACTORED REACTIONS

	1ST LCASE	MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
I	601	435 / 0	0 / 0	0 / 0	0 / 0	166 / 0	0 / 0
F	713	530 / 0	0 / 0	0 / 0	0 / 0	183 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.08 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 MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
A- B	-791 / 0	-119.4	-119.4	0.44 (1)	6.09	H- B	-47 / 46	0.02 (4)
B- C	-692 / 0	-119.4	-119.4	0.06 (1)	6.25	B- G	0 / 2	0.00 (4)
C- D	-792 / 0	-119.4	-119.4	0.44 (1)	6.08	G- C	-45 / 48	0.02 (4)
D- E	0 / 39	-119.4	-119.4	0.16 (1)	10.00	A- H	0 / 703	0.16 (1)
I- A	-818 / 0	0.0	0.0	0.08 (1)	7.81	G- D	0 / 704	0.16 (1)
F- D	-980 / 0	0.0	0.0	0.10 (1)	7.78			
I- H	0 / 0	-18.2	-18.2	0.11 (4)	10.00			
H- G	0 / 692	-18.2	-18.2	0.17 (1)	10.00			
G- F	0 / 0	-18.2	-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
- 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 (0.42")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.01")
ALLOWABLE DEFL.(TL)= L/360 (0.42")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.04")

CSI: TC=0.44/0.97 (C-D:1) , BC=0.17/0.97 (G-H:1) , WB=0.16/0.97 (D-G:1) , SSI=0.22/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (D) (INPUT = 0.90)
JSI METAL= 0.29 (D) (INPUT = 1.00)

LICENSED PROFESSIONAL ENGINEER
I.MATIJEVIC
100528832
PROVINCE OF ONTARIO
JULY 14, 2023

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

KOTT

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
IM0723-101	T14A	1	1	TRUSS DESC.	

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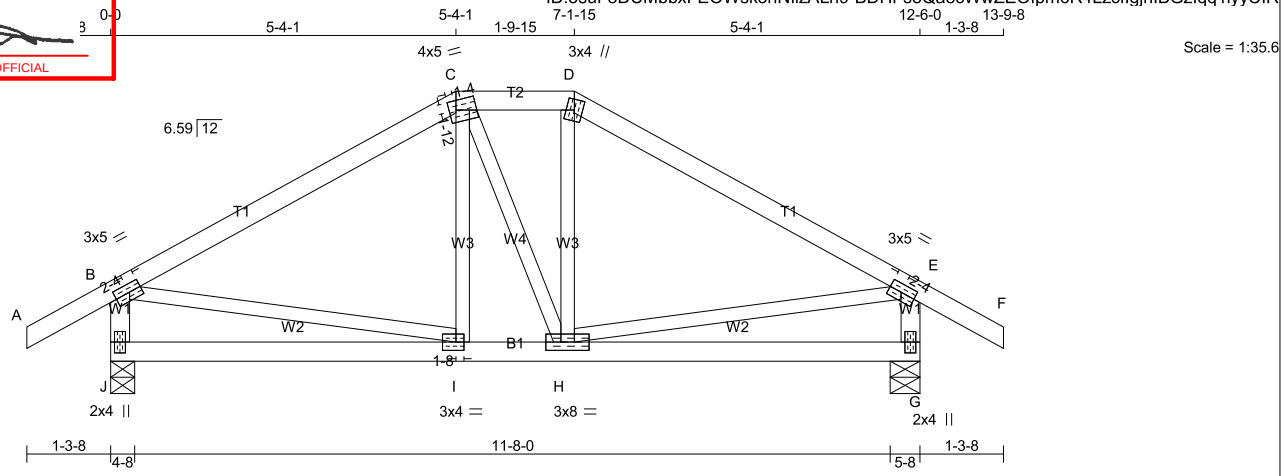

TOTAL WEIGHT = 53 lb

[M][F]

LUMBER

N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
A - C	2x4	DRY	No.2	SPF
C - D	2x4	DRY	No.2	SPF
D - F	2x4	DRY	No.2	SPF
J - B	2x4	DRY	No.2	SPF
G - E	2x4	DRY	No.2	SPF
J - 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-t	MT20	3.0	5.0	1.50	2.25
C	TTWW-m	MT20	4.0	5.0	1.75	1.25
D	TTW+m	MT20	3.0	4.0		
E	TMVW-t	MT20	3.0	5.0	1.50	2.25
G	BMV1+p	MT20	2.0	4.0		
H	BMWWW-t	MT20	3.0	8.0		
I	BMWW-t	MT20	3.0	4.0	1.50	1.50
J	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	UPLIFT	IN-SX	IN-SX
J	1023	0	1023	0	0	4-8	1-8
G	1023	0	1023	0	0	5-8	1-8

UNFACTORED REACTIONS

	1ST LCASE	MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
J	713	530 / 0	0 / 0	0 / 0	0 / 0	183 / 0	0 / 0
G	713	530 / 0	0 / 0	0 / 0	0 / 0	183 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.08 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 MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
A- B	0 / 39	-119.4	-119.4	0.16 (1)	10.00	I- C	-47 / 46	0.02 (4)
B- C	-791 / 0	-119.4	-119.4	0.44 (1)	6.09	C- H	0 / 2	0.00 (4)
C- D	-692 / 0	-119.4	-119.4	0.06 (1)	6.25	H- D	-45 / 48	0.02 (4)
D- E	-792 / 0	-119.4	-119.4	0.44 (1)	6.08	B- I	0 / 703	0.16 (1)
E- F	0 / 39	-119.4	-119.4	0.16 (1)	10.00	H- E	0 / 704	0.16 (1)
J- B	-981 / 0	0.0	0.0	0.10 (1)	7.78			
G- E	-980 / 0	0.0	0.0	0.10 (1)	7.78			
J- I	0 / 0	-18.2	-18.2	0.11 (4)	10.00			
I- H	0 / 692	-18.2	-18.2	0.17 (1)	10.00			
H- G	0 / 0	-18.2	-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
- 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 (0.42")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.01")
ALLOWABLE DEFL.(TL)= L/360 (0.42")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.04")

CSI: TC=0.44/0.97 (D-E:1) , BC=0.17/0.97 (H-I:1) , WB=0.16/0.97 (E-H:1) , SSI=0.22/1.00 (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) (PSI)		SHEAR (PLI)		SECTION (PLI)	
	MAX	MIN	MAX	MIN	MAX	MIN
MT20	650	371	1747	788	1987	1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (B) (INPUT = 0.90)
JSI METAL= 0.29 (E) (INPUT = 1.00)

JULY 14, 2023

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

KOTT

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
IM0723-101	T17	4	1	TRUSS DESC.	

Version 8.630 S Mar 22 2023 MiTek Industries, Inc. Fri Jul 14 09:40:51 2023 Page 1
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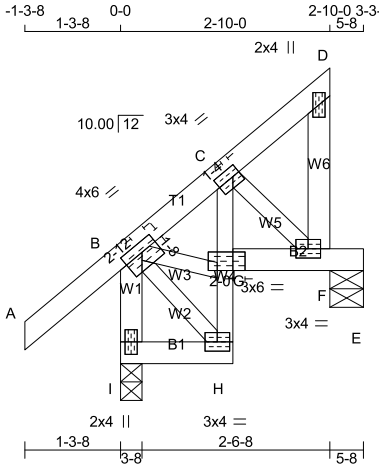


TOTAL WEIGHT = 4 X 19 = 76 lb [M]

LUMBER

N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
A - D	2x4	DRY	No.2	SPF
F - D	2x4	DRY	No.2	SPF
I - B	2x4	DRY	No.2	SPF
I - H	2x4	DRY	No.2	SPF
G - 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	TMVWW-t	MT20	4.0	6.0	1.50	2.75
C	TMWW-t	MT20	3.0	4.0	1.50	1.25
D	TMV+p	MT20	2.0	4.0		
F	BMVW1-t	MT20	3.0	4.0		
G	BWMW*-l	MT20	3.0	6.0		2.00
H	BMWW-t	MT20	3.0	4.0		
I	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 VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
F	184	0	222	0	0	5-8	1-8
I	398	0	398	0	0	3-8	1-8
E	-17	0	0	0	-19	5-8	1-8

PROVIDE ANCHORAGE AT BEARING JOINT E FOR 150 LBS FACTORED UPLIFT

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
F	131	107 / -25	0 / 0	0 / 0	0 / 0	49 / 0	0 / 0
I	275	218 / 0	0 / 0	0 / 0	0 / 0	58 / 0	0 / 0
E	-12	2 / -7	0 / 0	0 / 0	0 / 0	0 / -7	0 / 0

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

BRACING

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

MAX. UNBRACED INTERIOR CHORD LENGTH = 10.00 FT

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

LOADING

TOTAL LOAD CASES: (7)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD LC1 (PLF) FROM	TO	MAX CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
A- B	0 / 53	-119.4	-119.4	0.17 (5)	10.00	B- G	-45 / 119	0.03 (6)
B- C	-153 / 0	-119.4	-119.4	0.16 (5)	6.25	H- G	0 / 15	0.01 (6)
C- D	-10 / 11	-119.4	-119.4	0.04 (1)	10.00	G- C	0 / 26	0.01 (4)
F- D	-85 / 0	0.0	0.0	0.01 (1)	7.81	B- H	-2 / 1	0.00 (5)
I- B	-386 / 0	0.0	0.0	0.04 (1)	7.81	C- F	-160 / 63	0.02 (6)
I- H	0 / 0	-18.2	-18.2	0.01 (4)	10.00			
G- F	-48 / 121	-18.2	-18.2	0.03 (6)	6.25			
F- E	0 / 0	-18.2	-18.2	0.01 (6)	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=0.17/0.97 (A-B:5) , BC=0.03/0.97 (F-G:6) , WB=0.03/0.97 (B-G:6) , SSI=0.10/1.00 (A-B:5)

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.28 (G) (INPUT = 0.90)
JSI METAL= 0.08 (I) (INPUT = 1.00)

JULY 14, 2023

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

KOTT

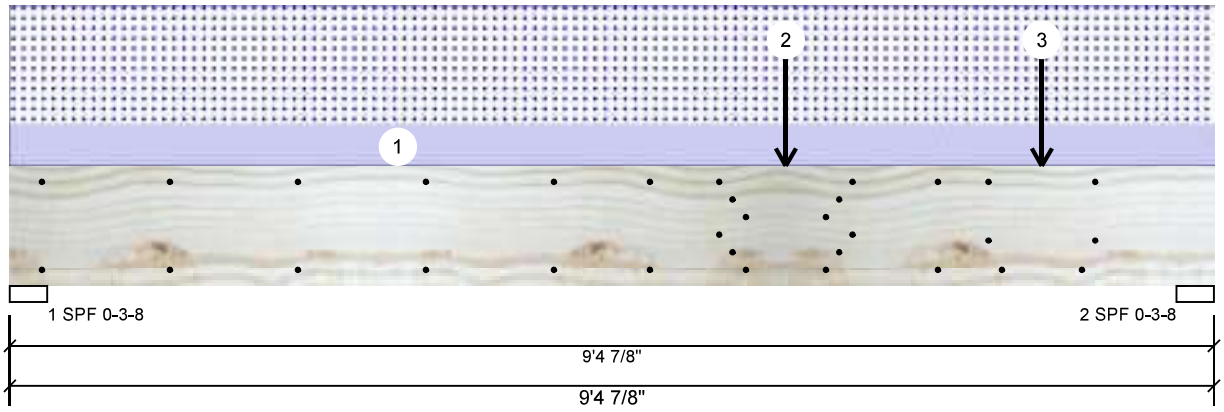
Client:
Project:
Address:

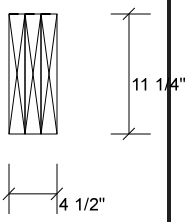
MHP 23032

Date: 6/7/2023
Input by: B B
Job Name: B1
Project #:

B1 S-[illegible]000" X 12.000" 3-Ply - PASSED

Level: Level





Member Information

Type:	Girder	Application:	Roof (Residential)
Plies:	3	Slope:	0/12
Moisture Condition:	Dry	Design Method:	LSD
Deflection LL:	360	Building Code:	NBCC 2015 OBC 2012(2020 Update)
Deflection TL:	360	Load Sharing:	Yes
Importance:	Normal - II	Deck:	Not Checked
		Vibration:	Not Checked

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	0	688	1932	0
2	Vertical	0	1071	2936	0

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	3.500"	Vert	39%	860 / 2898	3758	L	1.25D+1.5S
2 - SPF	3.500"	Vert	59%	1338 / 4404	5742	L	1.25D+1.5S

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	12407 ft-lb	6' 3/4"	13399 ft-lb	0.926 (93%)	1.25D+1.5S	L
Unbraced	12407 ft-lb	6' 3/4"	13283 ft-lb	0.934 (93%)	1.25D+1.5S	L
Shear	5591 lb	8'2 1/8"	7267 lb	0.769 (77%)	1.25D+1.5S	L
LL Defl inch	0.113 (L/949)	4'11 1/8"	0.298 (L/360)	0.379 (38%)	S	L
TL Defl inch	0.154 (L/696)	4'11 1/8"	0.298 (L/360)	0.517 (52%)	D+S	L

Design Notes

1. Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
2. Fasten all plies using 2 rows of 16d Common nails (.162x3.5") at 12" o.c. Maximum end distance not to exceed 6". Nail from both sides.
3. Refer to last page of calculations for fasteners required for specified loads.
4. Concentrated load fastener specification is in addition to hanger fasteners if a hanger is present.
5. Girders are designed to be supported on the bottom edge only.
6. Top must be laterally braced at end bearings.
7. Bottom must be laterally braced at end bearings.
8. Lateral slenderness ratio based on full section width.

JULY 14, 2023

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

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Uniform			Near Face	92 PLF	0 PLF	269 PLF	0 PLF	
2	Point	6-0-12		Far Face	643 lb	0 lb	1682 lb	0 lb	
3	Point	8-0-12		Far Face	250 lb	0 lb	656 lb	0 lb	

This design is valid until 4/17/2026

Manufacturer Info

Kott Group
14 Anderson Blvd., On
L4A7X4
905-642-4400

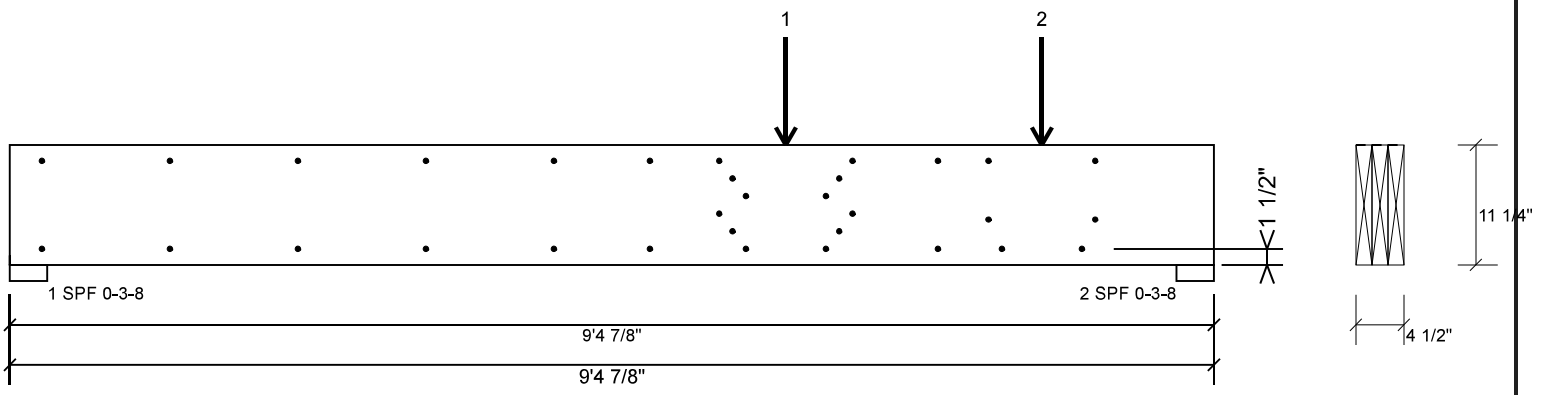
Client:
Project:
Address:

MHP 23032

Date: 6/7/2023
Input by: B B
Job Name: B1
Project #:

B1 S-[illegible]000" X 12.000" 3-Ply - PASSED

Level: Level



Multi-Ply Analysis

Fasten all plies using 2 rows of 16d Common nails (.162x3.5") at 12" o.c.. except for regions covered by concentrated load fastening. Nail from both sides. Maximum end distance not to exceed 6".

Capacity	87.8 %
Load	345.7 PLF
Yield Limit per Foot	393.6 PLF
Yield Limit per Fastener	196.8 lb.
Yield Mode	g
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	1.25D+1.5S
Duration Factor	1.00

Concentrated Load

Fasten at concentrated side load at 6-0-12 with a minimum of (12) – 16d Common nails (.162x3.5") in the pattern shown. Nail from both sides.

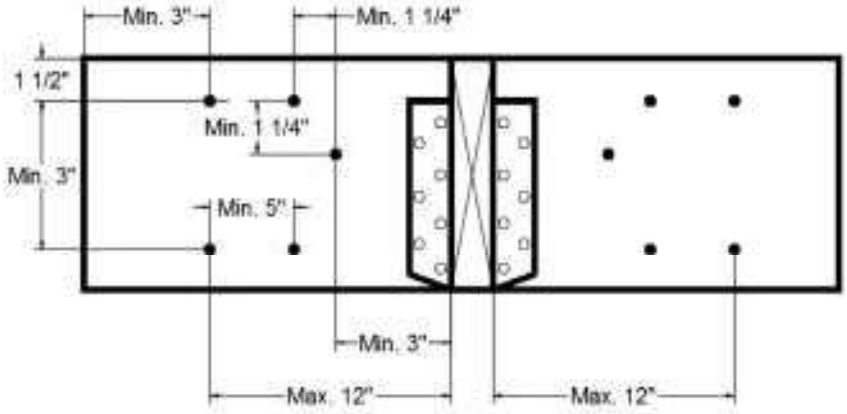
Capacity	93.9 %
Load	2217.8lb.
Total Yield Limit	2361.6 lb.
Yield Limit per Fastener	196.8 lb.
Yield Mode	g
Load Combination	1.25D+1.5S
Duration Factor	1.00

Concentrated Load

Fasten at concentrated side load at -0-12 with a minimum of (6) – 16d Common nails (.162x3.5") in the pattern shown. Nail from both sides.

Capacity	73.2 %
Load	864.3lb.
Total Yield Limit	1180.8 lb.
Yield Limit per Fastener	196.8 lb.
Yield Mode	g
Load Combination	1.25D+1.5S
Duration Factor	1.00

Min/Max fastener distances for Concentrated Side Loads



JULY 14, 2023

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

This design is valid until 4/17/2026

Manufacturer Info

Kott Group
14 Anderson Blvd., On
L4A7X4
905-642-4400