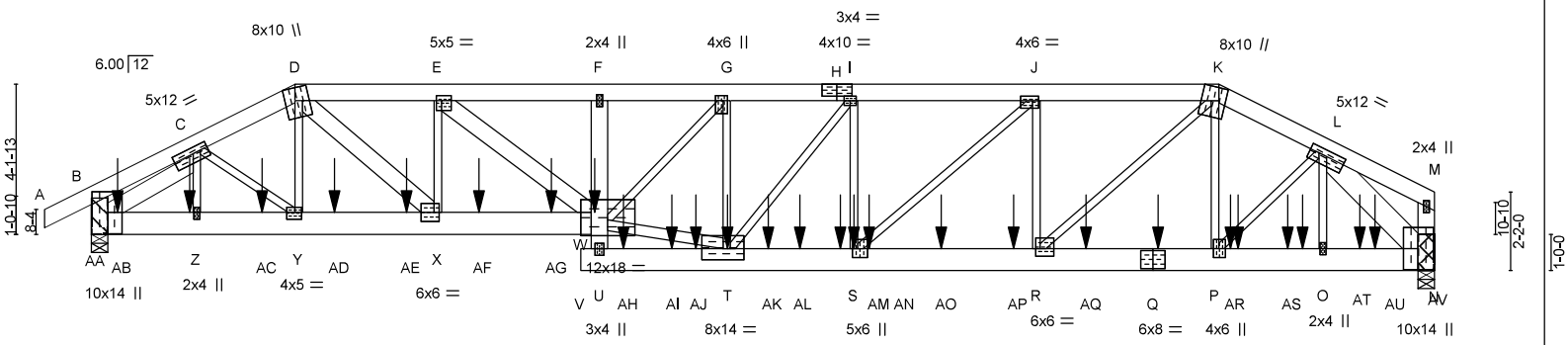
JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
NE0723-039	G01	1	4	TRUSS DESC.	

MHP 23031

Version 8.630 S Mar 22 2023 MiTek Industries, Inc. Fri Jul 7 15:27:11 2023 Page 1
ID:5vUDB17_Ic6Oj0vAxsr4RFzBM45-C91yjJyLRPj6VLb08K5?r2AqNhgjYe6m?zIcTqz_Qtk

-1-3-8 1-3-8 3-7-10 3-11-7 9-7-1 3-11-7 13-6-8 6-4 14-0-12 3-6-4 17-7-0 3-6-4 21-1-4 5-0-9 26-1-13 5-0-9 31-2-6 2-10-9 34-0-15 3-1-1 37-2-0

Scale = 1:63.0



36-3-0
5-8 5-8
0-0 2-11-1 2-11-1 2-8-9 5-7-10 3-11-7 9-7-1 3-11-7 13-6-8 6-4 14-0-12 3-6-4 17-7-0 3-6-4 21-1-4 5-0-9 26-1-13 5-0-9 31-2-6 2-10-9 34-0-15 3-1-1 37-2-0

TOTAL WEIGHT = 4 X 258 = 1031 lb [M]

LUMBER
N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
A - D	2x6	DRY	No.2	SPF
D - H	2x6	DRY	2100F 1.8E	SPF
H - K	2x6	DRY	No.2	SPF
K - M	2x6	DRY	No.2	SPF
AA- B	2x6	DRY	No.2	SPF
N - M	2x6	DRY	No.2	SPF
AA- W	2x8	DRY	1950F 1.7E	SPF
V - Q	2x8	DRY	1950F 1.7E	SPF
Q - N	2x8	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF
D - X	2x6	DRY	No.2	SPF
E - W	2x6	DRY	No.2	SPF
U - F	2x6	DRY	No.2	SPF
AA- C	2x6	DRY	No.2	SPF
L - N	2x8	DRY	No.2	SPF
W - T	2x4	DRY	2100F 1.8E	SPF

DRY: SEASONED LUMBER.

DESIGN CONSISTS OF 4 TRUSSES BUILT SEPARATELY THEN FASTENED TOGETHER AS FOLLOWS:

CHORDS #ROWS		SURFACE SPACING (IN)	LOAD(PLF)
TOP CHORDS : (0.122"X3") SPIRAL NAILS			
A- D	2	12	TOP
D- H	2	12	TOP
H- K	2	12	TOP
K- M	2	12	TOP
AA- B	2	12	TOP
N- M	2	12	TOP
BOTTOM CHORDS : (0.122"X3") SPIRAL NAILS			
AA- W	4	4	SIDE(794.8)
V- Q	2	4	SIDE(793.2)
Q- N	2	5	SIDE(838.3)
WEBS : (0.122"X3") SPIRAL NAILS			
2x3	1	6	
2x4	1	6	
2x6	2	6	
2x8	2	6	

STAGGER NAILS BY HALF THE SURFACE SPACING IN ADJACENT PLIES.

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
AA	17610	0	17610	0	0	5-8	5-8 & BLOCK
N	18472	0	18472	0	0	5-8	5-8 & BLOCK

UNFACTORED REACTIONS

	1ST LCASE	MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
AA	12275	9064 / 0	0 / 0	0 / 0	0 / 0	3211 / 0	0 / 0
N	12878	9499 / 0	0 / 0	0 / 0	0 / 0	3378 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) AA, N
BEARING SIZE FACTOR = 1.15 AT JNT(S) AA, N (BASED ON SUPPORT DEPTH = 1-8)

2x6 DRY SPF No.2 BEARING BLOCK 12" LONG AT JT. AA ATTACHED TO FRONT SIDE WITH 3 ROWS OF (0.122"X3") SPIRAL NAILS SPACED 4" C.C. 6 NAILS TOTAL.

2x6 DRY SPF No.2 BEARING BLOCK 12" LONG AT JT. N ATTACHED TO FRONT AND BACK SIDE WITH 3 ROWS OF (0.122"X3") SPIRAL NAILS SPACED 4" C.C. 6 NAILS TOTAL.

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.14 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

MAX. UNBRACED INTERIOR CHORD LENGTH = 7.81 FT

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 LC1 FROM	TO	MAX (PLF) CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
A- B	0 / 37	-119.4	-119.4	0.03 (1)	10.00	Z- C	0 / 763	0.04 (1)
B- C	-79 / 0	-119.4	-119.4	0.11 (1)	6.25	C- Y	0 / 4517	0.25 (1)
C- D	-26405 / 0	-119.4	-119.4	0.34 (1)	2.99	Y- D	-48 / 32	0.00 (4)
D- E	-35960 / 0	-119.4	-119.4	0.22 (1)	3.42	D- X	0 / 16670	0.49 (1)
E- F	-46053 / 0	-119.4	-119.4	0.43 (1)	2.87	X- E	-8910 / 0	0.49 (1)
F- G	-45236 / 0	-119.4	-119.4	0.40 (1)	2.92	E- W	0 / 13137	0.39 (1)
G- H	-39111 / 0	-119.4	-119.4	0.70 (1)	2.19	U- W	0 / 1633	0.54 (1)
H- I	-39111 / 0	-119.4	-119.4	0.70 (1)	2.19	W- F	-55 / 41	0.50 (1)
I- J	-38635 / 0	-119.4	-119.4	0.80 (1)	2.14	T- G	-6659 / 0	0.53 (1)
J- K	-31871 / 0	-119.4	-119.4	0.55 (1)	2.63	T- I	0 / 794	0.04 (1)
K- L	-23819 / 0	-119.4	-119.4	0.24 (1)	3.25	S- I	-1089 / 0	0.09 (1)
L- M	-34 / 0	-119.4	-119.4	0.06 (1)	6.25	S- J	0 / 9170	0.52 (1)
AA- B	-516 / 0	0.0	0.0	0.01 (1)	7.81	R- J	-6732 / 0	0.54 (1)
N- M	-261 / 0	0.0	0.0	0.01 (1)	7.81	R- K	0 / 14302	0.80 (1)
						P- K	0 / 458	0.03 (1)
AA-AB	0 / 20052	-18.2	-18.2	0.31 (1)	10.00	P- L	0 / 6122	0.34 (1)
AB- Z	0 / 20052	-18.2	-18.2	0.31 (1)	10.00	AA- C	-25305 / 0	0.58 (1)
Z-AC	0 / 20069	-18.2	-18.2	0.31 (1)	10.00	O- L	0 / 2051	0.12 (1)
AC- Y	0 / 20069	-18.2	-18.2	0.31 (1)	10.00	L- N	-24419 / 0	0.55 (1)
Y-AD	0 / 23644	-18.2	-18.2	0.32 (1)	10.00	W- G	0 / 8492	0.48 (1)
AD-AE	0 / 23644	-18.2	-18.2	0.32 (1)	10.00	W- T	0 / 37362	0.70 (1)
AE- X	0 / 23644	-18.2	-18.2	0.32 (1)	10.00			
X-AF	0 / 35959	-18.2	-18.2	0.49 (1)	10.00			
AF-AG	0 / 35959	-18.2	-18.2	0.49 (1)	10.00			
AG- W	0 / 35959	-18.2	-18.2	0.49 (1)	10.00			
V- U	0 / 0	-18.2	-18.2	0.00 (4)	10.00			
U-AH	0 / 3128	-18.2	-18.2	0.10 (1)	10.00			
AH-AI	0 / 3128	-18.2	-18.2	0.10 (1)	10.00			
AI-AJ	0 / 3128	-18.2	-18.2	0.10 (1)	10.00			
AJ- T	0 / 3128	-18.2	-18.2	0.10 (1)	10.00			
T-AK	0 / 38635	-18.2	-18.2	0.52 (1)	10.00			
AK-AL	0 / 38635	-18.2	-18.2	0.52 (1)	10.00			
AL-AM	0 / 38635	-18.2	-18.2	0.52 (1)	10.00			
AM- S	0 / 38635	-18.2	-18.2	0.52 (1)	10.00			
S-AN	0 / 31871	-18.2	-18.2	0.49 (1)	10.00			
AN-AO	0 / 31871	-18.2	-18.2	0.49 (1)	10.00			
AO-AP	0 / 31871	-18.2	-18.2	0.49 (1)	10.00			
AP- R	0 / 31871	-18.2	-18.2	0.49 (1)	10.00			
R-AQ	0 / 21308	-18.2	-18.2	0.79 (1)	10.00			
AQ- Q	0 / 21308	-18.2	-18.2	0.79 (1)	10.00			
Q- P	0 / 21308	-18.2	-18.2	0.79 (1)	10.00			
P-AR	0 / 17088	-18.2	-18.2	0.68 (1)	10.00			
AR-AS	0 / 17088	-18.2	-18.2	0.68 (1)	10.00			

DESIGN CRITERIA

*** SPECIAL LOADS ANALYSIS ***
GEOMETRY AND/OR BASIC LOADS CHANGED BY USER.
LOADS WERE DERIVED FROM USER INPUT
NO FURTHER MODIFICATIONS WERE MADE

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

*** NON STANDARD GIRDER ***
ADDT'L USER-DEFINED LOADS APPLIED TO ALL LOAD CASES.

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 (1.24")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.42")
ALLOWABLE DEFL.(TL)= L/360 (1.24")
CALCULATED VERT. DEFL.(TL) = L/ 623 (0.72")

CSI: TC=0.80/0.97 (I-J:1) , BC=0.79/0.97 (P-R:1) , WB=0.80/0.97 (K-R:1) , SSI=0.52/1.00 (O-P: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) (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 (R) (INPUT = 0.90)
JSI METAL= 0.98 (W) (INPUT = 1.00)

CONTINUED ON PAGE 2

LICENSED PROFESSIONAL ENGINEER
N.A. EL-MASRI
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.

KOTT

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
NE0723-039	G01	1	14	TRUSS DESC.	

MHP 23031

IN ADDITION, PRE-DRILL ONE 0.56" DIAM. HOLE IN EACH CHORD PANEL AND INSTALL 0.50" DIAM. ASTM A307 BOLTS WITH WASHERS, BOTH SIDES. FOR OTHER BOLT TYPES SEE CSA086 3.3.2.

GIRDER NAILING ASSUMES NAILED HANGERS ARE FASTENED WITH MIN. 3-0 INCH NAILS.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B						
C	TMWWW-t	MT20	5.0	12.0	2.00	5.25
D	TTWW+m	MT20	8.0	10.0	Edge	3.25
E	TMWW-t	MT20	5.0	5.0	1.75	1.75
F	TMW+w	MT20	2.0	4.0		
G	TMWW+t	MT20	4.0	6.0	1.75	1.50
H	TS-t	MT20	4.0	10.0	Edge	5.00
I	TMWW-t	MT20	3.0	4.0		
J	TMWW-t	MT20	4.0	6.0	1.50	2.00
K	TTWW+m	MT20	8.0	10.0	4.25	2.25
L	TMWWW-t	MT20	5.0	12.0	2.00	6.00
M	TMV+p	MT20	2.0	4.0		
N	BVMW1+p	MT20	10.0	14.0	7.00	4.75
O	BMW+w	MT20	2.0	4.0		
P	BMWW+t	MT20	4.0	6.0	3.00	1.75
Q	BS-t	MT20	6.0	8.0		
R	BMWW-t	MT20	6.0	6.0	2.50	1.50
S	BMWW+t	MT20	5.0	6.0	3.00	1.75
T	BMWWW-t	MT20	8.0	14.0	3.75	7.00
U	BMW+w	MT20	3.0	4.0	2.25	1.50
W	BVMWWW*-t	MT20	12.0	18.0	4.25	3.50
X	BMWW-t	MT20	6.0	6.0	3.00	1.75
Y	BMWW-t	MT20	4.0	5.0	2.25	2.25
Z	BMW+w	MT20	2.0	4.0	2.25	1.00
AA						
AA	TMBVW1*+p	MT20	10.0	14.0	7.00	4.75

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS MEMB. FR-TO	MAX. FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	WEBS MAX. UNBRAC LENGTH	MEMB. FR-TO	MAX. FORCE (LBS)	FACTORED MAX CSI (LC)
AS-AT	0 / 17088	-18.2	-18.2	0.68 (1)	10.00			
AT-O	0 / 17088	-18.2	-18.2	0.68 (1)	10.00			
O-AU	0 / 17088	-18.2	-18.2	0.61 (1)	10.00			
AU-AV	0 / 17088	-18.2	-18.2	0.61 (1)	10.00			
AV-N	0 / 17088	-18.2	-18.2	0.61 (1)	10.00			

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
Q	29-6-4	-779	-779	—	FRONT	VERT	TOTAL	—	C1
S	21-1-4	-1589	-1589	—	BACK	VERT	TOTAL	—	C1
T	17-7-4	-369	-369	—	BACK	VERT	TOTAL	—	C1
W	13-11-3	-1592	-1592	—	BACK	VERT	TOTAL	—	C1
Z	2-8-12	-779	-779	—	FRONT	VERT	TOTAL	—	C1
AB	8-12	-1090	-1090	—	FRONT	VERT	TOTAL	—	C1
AC	4-8-12	-779	-779	—	FRONT	VERT	TOTAL	—	C1
AD	6-8-12	-779	-779	—	FRONT	VERT	TOTAL	—	C1
AE	8-8-12	-779	-779	—	FRONT	VERT	TOTAL	—	C1
AF	10-8-12	-779	-779	—	FRONT	VERT	TOTAL	—	C1
AG	12-8-12	-779	-779	—	FRONT	VERT	TOTAL	—	C1
AH	14-8-12	-779	-779	—	FRONT	VERT	TOTAL	—	C1
AI	16-0-12	-369	-369	—	BACK	VERT	TOTAL	—	C1
AJ	16-8-12	-779	-779	—	FRONT	VERT	TOTAL	—	C1
AK	18-8-12	-779	-779	—	FRONT	VERT	TOTAL	—	C1
AL	19-7-4	-369	-369	—	BACK	VERT	TOTAL	—	C1
AM	20-8-12	-779	-779	—	FRONT	VERT	TOTAL	—	C1
AN	21-6-4	-779	-779	—	FRONT	VERT	TOTAL	—	C1
AO	23-6-4	-779	-779	—	FRONT	VERT	TOTAL	—	C1
AP	25-6-4	-779	-779	—	FRONT	VERT	TOTAL	—	C1
AQ	27-6-4	-779	-779	—	FRONT	VERT	TOTAL	—	C1
AR	31-6-4	-779	-779	—	FRONT	VERT	TOTAL	—	C1
AR	31-8-12	-1309	-1309	—	BACK	VERT	TOTAL	—	C1
AS	33-1-4	-369	-369	—	BACK	VERT	TOTAL	—	C1
AT	33-6-4	-779	-779	—	FRONT	VERT	TOTAL	—	C1
AU	35-1-4	-377	-377	—	BACK	VERT	TOTAL	—	C1
AV	35-6-4	-779	-779	—	FRONT	VERT	TOTAL	—	C1

CONNECTION REQUIREMENTS

1) **C1:** A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.

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KOTT

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
NE0723-039	G02	1	4	TRUSS DESC.	

MHP 23031

Version 8.630 S Mar 22 2023 MiTek Industries, Inc. Fri Jul 7 15:27:15 2023 Page 1
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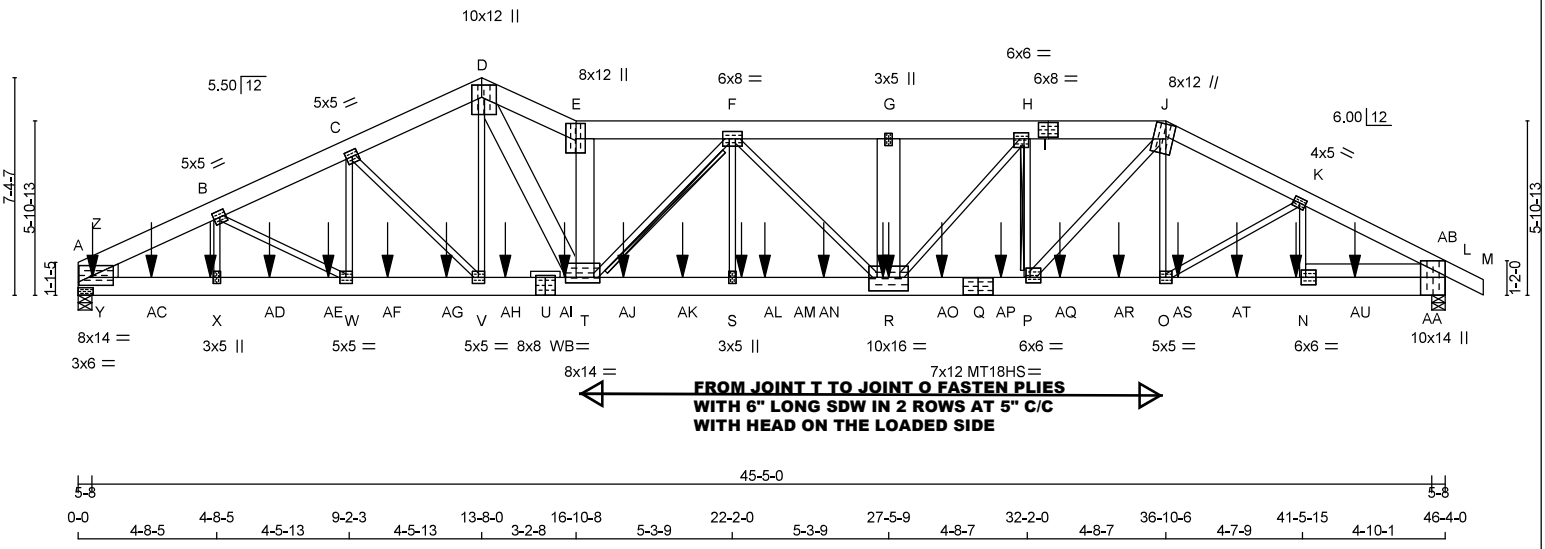
4-5-13 9-2-3 4-5-13 13-8-0 3-2-8 16-10-8 5-3-9 22-2-0 5-3-9 27-5-9 4-8-7 32-2-0 4-8-7 36-10-6 4-7-9 41-5-15 4-10-1 46-4-0 47-7-8 1-3-8

Scale = 1:78.1



5-8 45-5-0 5-8

0-0 4-8-5 4-8-5 4-5-13 9-2-3 4-5-13 13-8-0 3-2-8 16-10-8 5-3-9 22-2-0 5-3-9 27-5-9 4-8-7 32-2-0 4-8-7 36-10-6 4-7-9 41-5-15 4-10-1 46-4-0

TOTAL WEIGHT = 4 X 336 = 1343 lb [M]

LUMBER
N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
A - D	2x8	DRY	1950F 1.7E	SPF
D - E	2x8	DRY	No.2	SPF
E - I	2x8	DRY	No.2	SPF
I - J	2x8	DRY	No.2	SPF
J - M	2x6	DRY	No.2	SPF
A - U	2x8	DRY	1950F 1.7E	SPF
U - Q	2x8	DRY	1950F 1.7E	SPF
Q - L	2x8	DRY	1950F 1.7E	SPF
REINFORCING MEMBERS				
HW2	2x6	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF
D - T	2x8	DRY	No.2	SPF
T - E	2x8	DRY	No.2	SPF
R - G	2x10	DRY	No.2	SPF
P - J	2x4	DRY	No.2	SPF

DRY: SEASONED LUMBER.

DESIGN CONSISTS OF 4 TRUSSES BUILT SEPARATELY THEN FASTENED TOGETHER AS FOLLOWS:

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD(PLF)
TOP CHORDS : (0.122"X3") SPIRAL NAILS		
A-D 2	12	TOP
D-E 2	12	TOP
E-I 2	12	TOP
I-J 2	12	TOP
J-M 2	12	TOP
BOTTOM CHORDS : (0.122"X3") SPIRAL NAILS		
A-U 2	9	SIDE(671.2)
U-Q 2	8	SIDE(640.0)
Q-L 2	5	SIDE(845.3)
WEBS : (0.122"X3") SPIRAL NAILS		
2x3 1	6	
2x4 1	6	
2x6 2	6	
2x8 2	6	
O-T SDW 5" 2 ROWS 6" C/C		SIDE(2625.3)

STAGGER NAILS BY HALF THE SURFACE SPACING IN ADJACENT PLIES.

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	HEEL WEDGE
A	21744	0	21744	-185	-897	5-8	5-8	2x6 L
L	22085	0	22118	0	-1191	5-8	5-8	

PROVIDE ANCHORAGE AT BEARING JOINT A FOR 897 LBS FACTORED UPLIFT
PROVIDE ANCHORAGE AT BEARING JOINT L FOR 1191 LBS FACTORED UPLIFT

PROVIDE FOR 185 LBS FACTORED HORIZONTAL REACTION AT JOINT A

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
A	15283	11027 / 0	463 / 0	0 / 0	0 / -938	3793 / 0	0 / 0
L	15515	11250 / 0	463 / 0	0 / 0	0 / -1157	3823 / 0	0 / 0
HORIZONTAL REACTIONS							
A	—	0 / 0	0 / 0	0 / 0	127 / -132	0 / 0	0 /0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) A, L
BEARING SIZE FACTOR = 1.15 AT JNT(S) A, L (BASED ON SUPPORT DEPTH = 1-8)

BRACING
MAX. UNBRACED TOP CHORD LENGTH = 1.93 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 6.25 FT OR RIGID CEILING DIRECTLY APPLIED.

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

2x8 DRY SPF No.2 T-BRACE AT F-T, H-P

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.

LOADING
TOTAL LOAD CASES: (18)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD LC1 FROM	TO	MAX CSI (LC)	MAX. UNBRAC LENGTH
A-Z	-41837 / 1742	-155.5	-155.5	0.54 (1)	3.13
Z-B	-36628 / 1610	-155.5	-155.5	0.53 (1)	3.37
B-C	-37774 / 1743	-155.5	-155.5	0.37 (1)	3.55
C-D	-35736 / 1747	-155.5	-155.5	0.12 (1)	3.91
D-E	-53257 / 2588	-155.5	-155.5	0.52 (1)	2.22
E-F	-47196 / 2232	-155.5	-155.5	0.60 (1)	2.44
F-G	-54379 / 2463	-155.5	-155.5	0.88 (1)	1.93
G-H	-54379 / 2463	-155.5	-155.5	0.86 (1)	1.93
H-I	-46028 / 2239	-155.5	-155.5	0.59 (1)	2.48
I-J	-46028 / 2239	-155.5	-155.5	0.59 (1)	2.48
J-K	-37801 / 1885	-155.5	-155.5	0.68 (3)	2.16
K-AB	-36787 / 1831	-155.5	-155.5	0.60 (3)	2.28
AB-L	-27101 / 1356	-155.5	-155.5	0.33 (3)	2.95
L-M	0 / 8	-155.5	-155.5	0.04 (3)	10.00
A-Y	-1367 / 32348	-38.2	-38.2	0.63 (1)	6.25
Y-AC	-1367 / 32348	-38.2	-38.2	0.63 (1)	6.25
AC-X	-1367 / 32348	-38.2	-38.2	0.63 (1)	6.25
X-AD	-1367 / 32348	-38.2	-38.2	0.56 (1)	6.25
AD-AE	-1367 / 32348	-38.2	-38.2	0.56 (1)	6.25
AE-W	-1367 / 32348	-38.2	-38.2	0.56 (1)	6.25
W-AF	-1364 / 34657	-38.2	-38.2	0.50 (1)	6.25
AF-AG	-1364 / 34657	-38.2	-38.2	0.50 (1)	6.25
AG-V	-1364 / 34657	-38.2	-38.2	0.50 (1)	6.25
V-AH	-1226 / 32482	-38.2	-38.2	0.48 (1)	6.25
AH-U	-1226 / 32482	-38.2	-38.2	0.48 (1)	6.25
U-AI	-1226 / 32482	-38.2	-38.2	0.48 (1)	6.25
AI-T	-1226 / 32482	-38.2	-38.2	0.48 (1)	6.25
T-AJ	-2136 / 53180	-38.2	-38.2	0.72 (1)	6.25
AJ-AK	-2136 / 53180	-38.2	-38.2	0.72 (1)	6.25
AK-S	-2136 / 53180	-38.2	-38.2	0.72 (1)	6.25
S-AL	-2136 / 53180	-38.2	-38.2	0.76 (1)	6.25
AL-AM	-2136 / 53180	-38.2	-38.2	0.76 (1)	6.25
AM-AN	-2136 / 53180	-38.2	-38.2	0.76 (1)	6.25
AN-R	-2136 / 53180	-38.2	-38.2	0.76 (1)	6.25
R-AO	-1865 / 46029	-38.2	-38.2	0.64 (1)	6.25
AO-Q	-1865 / 46029	-38.2	-38.2	0.64 (1)	6.25
Q-AP	-1865 / 46029	-38.2	-38.2	0.64 (1)	6.25
AP-P	-1865 / 46029	-38.2	-38.2	0.64 (1)	6.25

WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
X-B	0 / 472	0.03 (2)
W-B	-104 / 2989	0.17 (3)
W-C	-12 / 2026	0.11 (2)
C-V	-3522 / 401	0.61 (2)
V-D	-300 / 5703	0.32 (2)
D-T	-1691 / 34665	0.84 (1)
T-E	-22842 / 1306	0.81 (1)
T-F	-9113 / 404	0.69 (3)
S-F	0 / 4265	0.24 (1)
F-R	0 / 2144	0.12 (3)
R-G	-393 / 297	0.01 (1)
R-H	-395 / 12581	0.71 (1)
P-H	-10481 / 616	0.52 (1)
P-J	-778 / 18230	0.73 (1)
O-J	-65 / 2582	0.15 (3)
O-K	-106 / 1407	0.08 (2)
N-K	-1483 / 244	0.07 (1)
N-AB	-736 / 17811	0.53 (1)
Y-Z	-278 / 9425	0.00 (1)
AA-AB	0 / 1542	0.00 (1)

DESIGN CRITERIA

*** SPECIAL LOADS ANALYSIS ***
GEOMETRY AND/OR BASIC LOADS CHANGED BY USER.
LOADS WERE DERIVED FROM USER INPUT
NO FURTHER MODIFICATIONS WERE MADE

SPECIFIED LOADS:

TOP CH.	LL =	46.9	PSF
	DL =	6.0	PSF
BOT CH.	LL =	10.0	PSF
	DL =	7.3	PSF
TOTAL LOAD	=	70.1	PSF

SPACING = 24.0 IN. C/C

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

*** NON STANDARD GIRDER ***
ADDT'L USER-DEFINED LOADS APPLIED TO LOADCASE(S): 1,2,3,4,5,6,7,8,9,10,15,16,17,18

THIS TRUSS IS DESIGNED FOR COMMERCIAL OR INDUSTRIAL BUILDING REQUIREMENTS OF PART 4, NBCC 2015

THIS DESIGN COMPLIES WITH:
- PART 4 OF BCBC 2018 , NBC-2019AE
- PART 4 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

DESIGN ASSUMPTIONS
- SLOPE REDUCTION FACTOR USED

(80 % OF 48.1 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) TIMES IMPORTANCE FACTOR EQUALS 46.9 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (1.54")
CALCULATED VERT. DEFL.(LL) = L/ 971 (0.57")
ALLOWABLE DEFL.(TL)= L/360 (1.54")
CALCULATED VERT. DEFL.(TL) = L/ 705 (0.79")

CSI: TC=0.88/0.97 (F-G:1) , BC=0.76/0.97 (R-S:1) , WB=0.84/0.97 (D-T:1) , SSI=0.82/1.00 (A-Z:1)

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

SNOW LOAD IMPORTANCE FACTOR = 1.00
WIND LOAD IMPORTANCE FACTOR = 1.00
LIVE LOAD IMPORTANCE FACTOR = 1.00
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
MT18HS	586	403	2455	1382	3163	3004

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

CONTINUED ON PAGE 2

KOTT

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
NE0723-039	G02	1	14	TRUSS DESC.	

MHP 23031

IN ADDITION, PRE-DRILL ONE 0.56" DIAM. HOLE IN EACH CHORD PANEL AND INSTALL 0.50" DIAM. ASTM A307 BOLTS WITH WASHERS, BOTH SIDES. FOR OTHER BOLT TYPES SEE CSA086 3.3.2.

GIRDER NAILING ASSUMES NAILED HANGERS ARE FASTENED WITH MIN. 3-0 INCH NAILS.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMBH1-I	MT20	8.0	14.0	3.25	4.00
A	TP-t	MT20	3.0	6.0	4.25	1.75
B	TMWW-t	MT20	5.0	5.0		
C	TMWW-t	MT20	5.0	5.0		
D	TTWW+p	MT20	10.0	12.0	5.00	4.00
E	TTW+p	MT20	8.0	12.0	6.25	3.75
F	TMWWW-t	MT20	6.0	8.0		
G	TMW+w	MT20	3.0	5.0	2.25	1.50
H	TMWW-t	MT20	6.0	6.0	2.50	1.75
I	TS-t	MT20	6.0	8.0		
J	TTWW+m	MT20	8.0	12.0	6.50	2.75
K	TMWW-t	MT20	4.0	5.0		
L	TMBMW1+t	MT20	10.0	14.0	7.75	
N	BMWW-t	MT20	6.0	6.0	3.00	1.75
O, V, W						
O	BMWW-t	MT20	5.0	5.0		
P	BMWW-t	MT20	6.0	6.0	2.25	1.75
Q	BS-t	MT18HS	7.0	12.0		
R	BMWWW-t	MT20	10.0	16.0	5.50	8.00
S	BMW+w	MT20	3.0	5.0		
T	BMWWW-t	MT20	8.0	14.0	2.25	4.50
U	BS-t	MT20	8.0	8.0		
X	BMW+w	MT20	3.0	5.0		

WB - INDICATES BLOCKING REQUIRED

LOADING
TOTAL LOAD CASES: (18)

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)
P-AQ	-1384 / 33958	-38.2	-38.2	0.47 (1)	6.25			
AQ-AR	-1384 / 33958	-38.2	-38.2	0.47 (1)	6.25			
AR- O	-1384 / 33958	-38.2	-38.2	0.47 (1)	6.25			
O-AS	-1501 / 32826	-38.2	-38.2	0.47 (1)	6.25			
AS-AT	-1501 / 32826	-38.2	-38.2	0.47 (1)	6.25			
AT- N	-1501 / 32826	-38.2	-38.2	0.47 (1)	6.25			
N-AU	-781 / 15422	-38.2	-38.2	0.32 (3)	6.25			
AU-AA	-781 / 15422	-38.2	-38.2	0.32 (3)	6.25			
AA- L	-781 / 15422	-38.2	-38.2	0.19 (1)	6.25			

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
N	41-3-4	-779	-779	—	FRONT	VERT	TOTAL	—	C1
R	27-3-4	-779	-779	—	FRONT	VERT	TOTAL	—	C1
R	27-5-9	-5498	-5498	—	BACK	VERT	TOTAL	—	C1
X	4-5-12	-779	-779	—	FRONT	VERT	TOTAL	—	C1
Y	5-12	-1118	-1118	—	FRONT	VERT	TOTAL	—	C1
AC	2-5-12	-779	-779	—	FRONT	VERT	TOTAL	—	C1
AD	6-5-12	-779	-779	—	FRONT	VERT	TOTAL	—	C1
AE	8-5-12	-779	-779	—	FRONT	VERT	TOTAL	—	C1
AF	10-5-12	-779	-779	—	FRONT	VERT	TOTAL	—	C1
AG	12-5-12	-779	-779	—	FRONT	VERT	TOTAL	—	C1
AH	14-5-12	-779	-779	—	FRONT	VERT	TOTAL	—	C1
AI	16-5-12	-779	-779	—	FRONT	VERT	TOTAL	—	C1
AJ	18-5-12	-779	-779	—	FRONT	VERT	TOTAL	—	C1
AK	20-5-12	-779	-779	—	FRONT	VERT	TOTAL	—	C1
AL	22-5-12	-779	-779	—	FRONT	VERT	TOTAL	—	C1
AM	23-3-4	-779	-779	—	FRONT	VERT	TOTAL	—	C1
AN	25-3-4	-779	-779	—	FRONT	VERT	TOTAL	—	C1
AO	29-3-4	-779	-779	—	FRONT	VERT	TOTAL	—	C1
AP	31-3-4	-779	-779	—	FRONT	VERT	TOTAL	—	C1
AQ	33-3-4	-779	-779	—	FRONT	VERT	TOTAL	—	C1
AR	35-3-4	-779	-779	—	FRONT	VERT	TOTAL	—	C1
AS	37-3-4	-779	-779	—	FRONT	VERT	TOTAL	—	C1
AT	39-3-4	-779	-779	—	FRONT	VERT	TOTAL	—	C1
AU	43-3-4	-1173	-1173	—	FRONT	VERT	TOTAL	—	C1

CONNECTION REQUIREMENTS

1) **C1:** A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.

TRUSS HAS BEEN CHECKED FOR UNBALANCED LOADING
AS PER NBCC 4.1.6.2.(8)

WIND LOAD APPLIED IS DERIVED FROM REFERENCE VELOCITY PRESSURE OF { 9.2} PSF AT {40-0-0} FT-IN-SX REFERENCE HEIGHT ABOVE GRADE AND USING EXTERNAL PEAK COEFFICIENTS, CpCg, BASED ON THE {MAIN WIND FORCE RESISTING SYSTEM}.INTERNAL WIND PRESSURE IS BASED ON DESIGN {CATEGORY 2}. BUILDING MAY BE LOCATED ON {OPEN TERRAIN}, AND TRUSS IS DESIGNED TO BE LOCATED AT LEAST {0-0} FT-IN-SX AWAY FROM EAVE.TRUSS UPLIFT IS BASED ON TOP AND BOTTOM CHORD DEAD LOADS OF 5.0 PSF AND 5.0 PSF RESPECTIVELY.

JSI GRIP= 0.90 (H) (INPUT = 0.90)
JSI METAL= 1.00 (Q) (INPUT = 1.00)

LICENSED PROFESSIONAL ENGINEER
N.A. EL-MASRI
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.

KOTT

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
NE0723-039	G03	1	MHP 23031	TRUSS DESC.	

Version 8.630 S Mar 22 2023 MiTek Industries, Inc. Fri Jul 7 15:27:16 2023 Page 1
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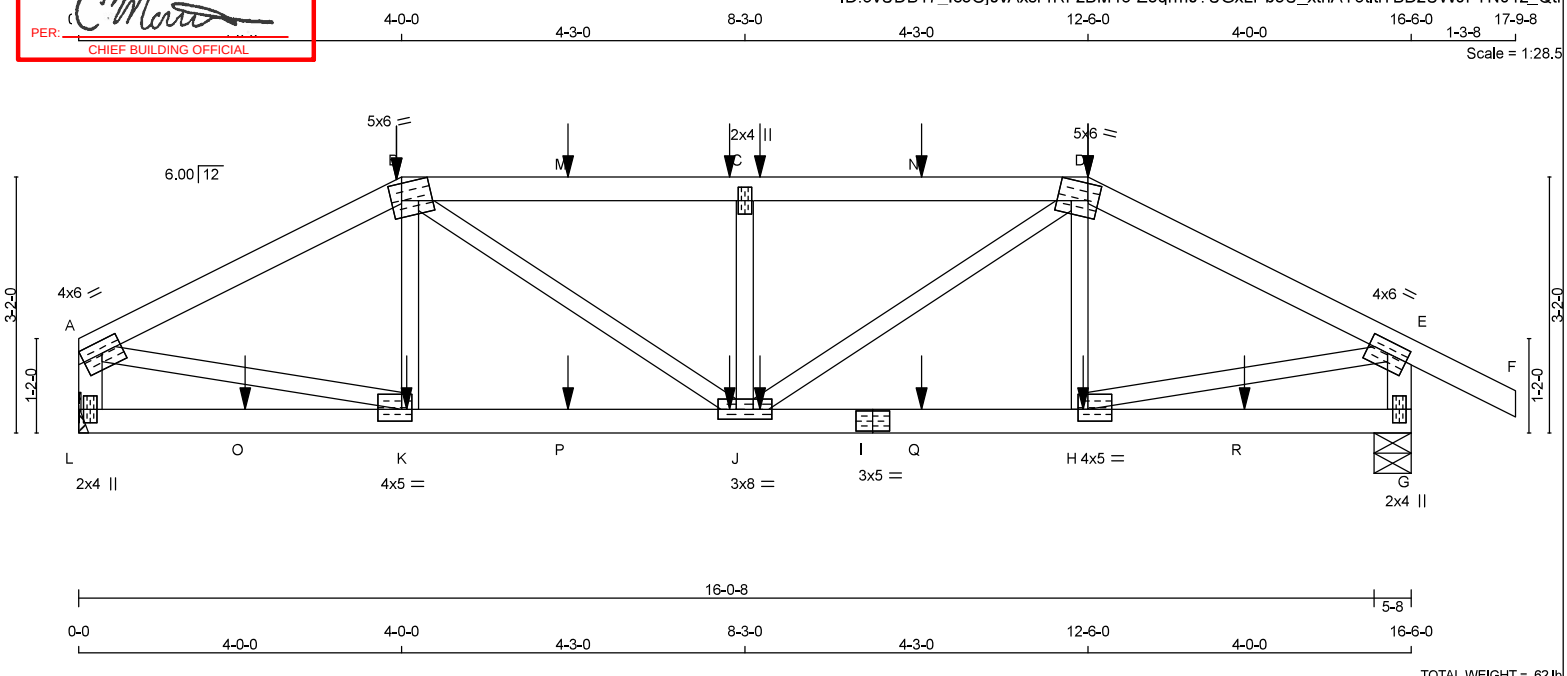

TOTAL WEIGHT = 62 lb [M]

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
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	TMVW-t	MT20	4.0	6.0	1.75	Edge
B	TTWW-m	MT20	5.0	6.0	Edge	4.50
C	TMW+w	MT20	2.0	4.0		
D	TTWW-m	MT20	5.0	6.0	Edge	4.50
E	TMVW-t	MT20	4.0	6.0	1.75	3.00
G	BMV1+p	MT20	2.0	4.0		
H	BMWW-t	MT20	4.0	5.0	1.75	1.50
I	BS-t	MT20	3.0	5.0		
J	BMWWW-t	MT20	3.0	8.0		
K	BMWW-t	MT20	4.0	5.0	1.75	1.50
L	BMV1+p	MT20	2.0	4.0		

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

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
L	1616	0	1616	0	0	MECHANICAL	
G	1778	0	1778	0	0	5-8	2-4

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT L. MINIMUM BEARING LENGTH AT JOINT L = 1-12.

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
L	1128	820 / 0	0 / 0	0 / 0	0 / 0	308 / 0	0 / 0
G	1239	915 / 0	0 / 0	0 / 0	0 / 0	324 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.59 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)	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	-2109 / 0	-119.4	-119.4	0.46 (1)	4.08	K- B	-279 / 22	0.06 (1)
B- M	-2547 / 0	-119.4	-119.4	0.56 (1)	3.59	B- J	0 / 812	0.20 (1)
M- C	-2547 / 0	-119.4	-119.4	0.56 (1)	3.59	J- C	-808 / 0	0.16 (1)
C- N	-2547 / 0	-119.4	-119.4	0.56 (1)	3.59	J- D	0 / 812	0.20 (1)
N- D	-2547 / 0	-119.4	-119.4	0.56 (1)	3.59	H- D	-280 / 22	0.06 (1)
D- E	-2108 / 0	-119.4	-119.4	0.46 (1)	4.08	A- K	0 / 1925	0.48 (1)
E- F	0 / 36	-119.4	-119.4	0.17 (1)	10.00	H- E	0 / 1925	0.48 (1)
L- A	-1579 / 0	0.0	0.0	0.18 (1)	6.45			
G- E	-1741 / 0	0.0	0.0	0.19 (1)	6.20			
L- O	0 / 0	-18.2	-18.2	0.10 (4)	10.00			
O- K	0 / 0	-18.2	-18.2	0.10 (4)	10.00			
K- P	0 / 1874	-18.2	-18.2	0.39 (1)	10.00			
P- J	0 / 1874	-18.2	-18.2	0.39 (1)	10.00			
J- I	0 / 1874	-18.2	-18.2	0.39 (1)	10.00			
I- Q	0 / 1874	-18.2	-18.2	0.39 (1)	10.00			
Q- H	0 / 1874	-18.2	-18.2	0.39 (1)	10.00			
H- R	0 / 0	-18.2	-18.2	0.10 (4)	10.00			
R- G	0 / 0	-18.2	-18.2	0.10 (4)	10.00			

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
B	4-0-0	-212	-212	—	FRONT	VERT	TOTAL	—	C1
C	8-0-12	-41	-41	—	FRONT	VERT	TOTAL	—	C1
C	8-5-4	-41	-41	—	FRONT	VERT	TOTAL	—	C1
D	12-6-0	-212	-212	—	FRONT	VERT	TOTAL	—	C1
H	12-5-4	-10	-10	—	FRONT	VERT	TOTAL	—	C1
J	8-0-12	-10	-10	—	FRONT	VERT	TOTAL	—	C1
J	8-5-4	-10	-10	—	FRONT	VERT	TOTAL	—	C1
K	4-0-12	-10	-10	—	FRONT	VERT	TOTAL	—	C1
M	6-0-12	-41	-41	—	FRONT	VERT	TOTAL	—	C1
N	10-5-4	-41	-41	—	FRONT	VERT	TOTAL	—	C1
O	2-0-12	-10	-10	—	FRONT	VERT	TOTAL	—	C1
P	6-0-12	-10	-10	—	FRONT	VERT	TOTAL	—	C1
Q	10-5-4	-10	-10	—	FRONT	VERT	TOTAL	—	C1
R	14-5-4	-10	-10	—	FRONT	VERT	TOTAL	—	C1

CONNECTION REQUIREMENTS

1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.

DESIGN CRITERIA

*** SPECIAL LOADS ANALYSIS ***
GEOMETRY AND/OR BASIC LOADS CHANGED BY USER.
LOADS WERE DERIVED FROM USER INPUT
NO FURTHER MODIFICATIONS WERE MADE

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

*** NON STANDARD GIRDER ***
ADDT'L USER-DEFINED LOADS APPLIED TO ALL LOAD CASES.

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 (0.12")

CSI: TC=0.56/0.97 (B-C:1) , BC=0.39/0.97 (H-J:1) , WB=0.48/0.97 (A-K:1) , SSI=0.30/1.00 (B-C:1)

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

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 (A) (INPUT = 0.90)
JSI METAL= 0.62 (I) (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.

KOTT

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
NE0723-039	G04	1	MHP 23031	TRUSS DESC.	

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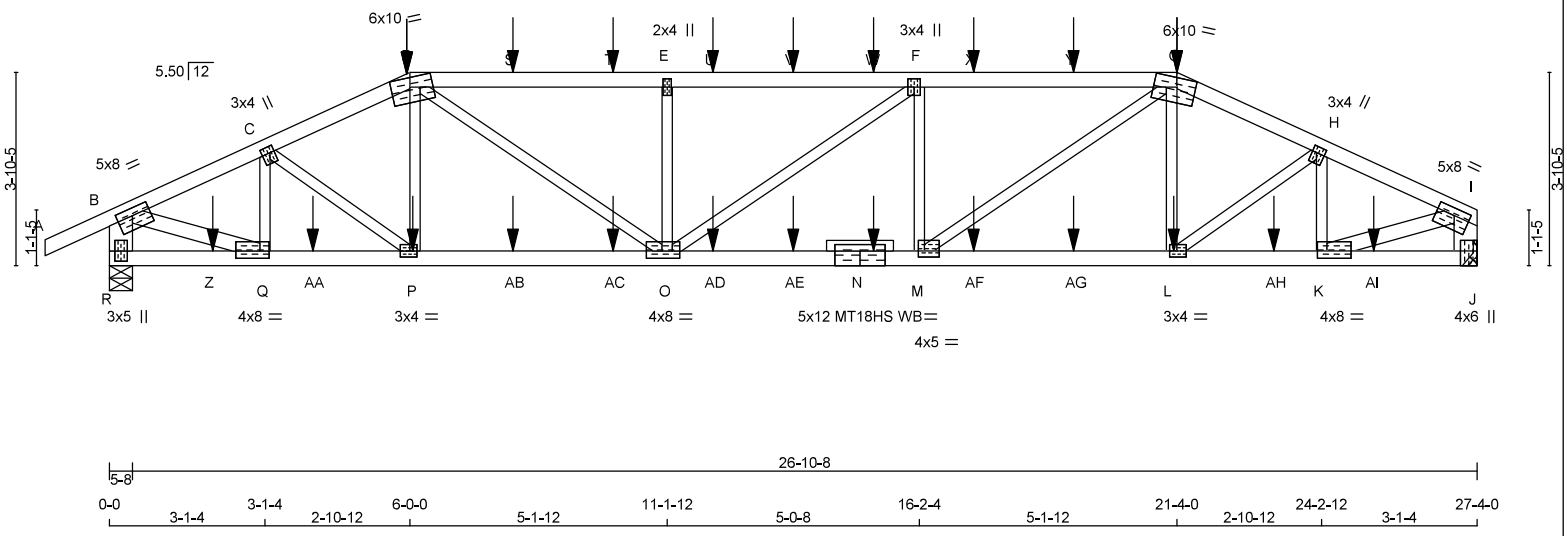

TOTAL WEIGHT = 109 lb [M]

LUMBER
N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
A - D	2x4	DRY	No.2	SPF
D - G	2x4	DRY	2100F 1.8E	SPF
G - I	2x4	DRY	No.2	SPF
R - B	2x6	DRY	No.2	SPF
J - I	2x6	DRY	No.2	SPF
R - N	2x4	DRY	2100F 1.8E	SPF
N - J	2x4	DRY	2100F 1.8E	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF
B - Q	2x4	DRY	No.2	SPF
K - I	2x4	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	3.75
C	TMWW+t	MT20	3.0	4.0	1.50	1.00
D	TTWW-m	MT20	6.0	10.0	Edge	4.50
E	TMV+w	MT20	2.0	4.0		
F	TMWW+t	MT20	3.0	4.0		
G	TTWW-m	MT20	6.0	10.0	Edge	4.50
H	TMWW+t	MT20	3.0	4.0	1.50	1.00
I	TMVW-t	MT20	5.0	8.0	1.75	3.75
J	BMV1+t	MT20	4.0	6.0	Edge	1.50
K	BMWW-t	MT20	4.0	8.0	1.75	2.25
L	BMWW-t	MT20	3.0	4.0	1.50	1.75
M	BMWW-t	MT20	4.0	5.0	1.50	1.50
N	BS-t	MT18HS	5.0	12.0		
O	BMWWW-t	MT20	4.0	8.0	1.75	3.75
P	BMWW-t	MT20	3.0	4.0	1.50	1.75
Q	BMWW-t	MT20	4.0	8.0	1.75	2.25
R	BMV1+p	MT20	3.0	5.0		

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

WB - INDICATES BLOCKING REQUIRED

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
R	3350	0	3350	0	0	5-8	3-6
J	3188	0	3188	0	0	MECHANICAL	

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

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
R	2340	1702 / 0	0 / 0	0 / 0	0 / 0	638 / 0	0 / 0
J	2229	1608 / 0	0 / 0	0 / 0	0 / 0	621 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) R
BEARING SIZE FACTOR = 1.15 AT JNT(S) R (BASED ON SUPPORT DEPTH = 1-8)

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.58 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 LC1 FROM	TO	MAX (PLF) CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
A- B	0 / 34	-119.4	-119.4	0.17 (1)	10.00	Q- C	-1030 / 0	0.18 (1)
B- C	-4560 / 0	-119.4	-119.4	0.45 (1)	2.86	C- P	0 / 629	0.16 (1)
C- D	-5143 / 0	-119.4	-119.4	0.49 (1)	2.63	P- D	-204 / 68	0.05 (1)
D- S	-6464 / 0	-119.4	-119.4	0.84 (1)	2.60	D- O	0 / 2201	0.54 (1)
S- T	-6464 / 0	-119.4	-119.4	0.84 (1)	2.60	O- E	-1093 / 0	0.27 (1)
T- E	-6464 / 0	-119.4	-119.4	0.84 (1)	2.60	O- F	-4 / 1	0.00 (1)
E- U	-6465 / 0	-119.4	-119.4	0.84 (1)	2.58	M- F	-1095 / 0	0.27 (1)
U- V	-6465 / 0	-119.4	-119.4	0.84 (1)	2.58	M- G	0 / 2207	0.55 (1)
V- W	-6465 / 0	-119.4	-119.4	0.84 (1)	2.58	L- G	-206 / 68	0.05 (1)
W- F	-6465 / 0	-119.4	-119.4	0.84 (1)	2.58	L- H	0 / 627	0.16 (1)
F- X	-6467 / 0	-119.4	-119.4	0.85 (1)	2.58	K- H	-1029 / 0	0.18 (1)
X- Y	-6467 / 0	-119.4	-119.4	0.85 (1)	2.58	B- Q	0 / 4291	0.76 (1)
Y- G	-6467 / 0	-119.4	-119.4	0.85 (1)	2.58	K- I	0 / 4291	0.76 (1)
G- H	-5141 / 0	-119.4	-119.4	0.49 (1)	2.63			
H- I	-4559 / 0	-119.4	-119.4	0.45 (1)	2.86			
R- B	-3298 / 0	0.0	0.0	0.23 (1)	5.72			
J- I	-3136 / 0	0.0	0.0	0.22 (1)	5.84			
R- Z	0 / 0	-18.2	-18.2	0.07 (1)	10.00			
Z- Q	0 / 0	-18.2	-18.2	0.07 (1)	10.00			
Q-AA	0 / 4155	-18.2	-18.2	0.40 (1)	10.00			
AA- P	0 / 4155	-18.2	-18.2	0.40 (1)	10.00			
P-AB	0 / 4654	-18.2	-18.2	0.44 (1)	10.00			
AB-AC	0 / 4654	-18.2	-18.2	0.44 (1)	10.00			
AC- O	0 / 4654	-18.2	-18.2	0.44 (1)	10.00			
O-AD	0 / 6468	-18.2	-18.2	0.62 (1)	10.00			
AD-AE	0 / 6468	-18.2	-18.2	0.62 (1)	10.00			
AE- N	0 / 6468	-18.2	-18.2	0.62 (1)	10.00			
N- M	0 / 6468	-18.2	-18.2	0.62 (1)	10.00			
M-AF	0 / 4653	-18.2	-18.2	0.44 (1)	10.00			
AF-AG	0 / 4653	-18.2	-18.2	0.44 (1)	10.00			
AG- L	0 / 4653	-18.2	-18.2	0.44 (1)	10.00			
L-AH	0 / 4155	-18.2	-18.2	0.39 (1)	10.00			
AH- K	0 / 4155	-18.2	-18.2	0.39 (1)	10.00			
K-AI	0 / 0	-18.2	-18.2	0.07 (1)	10.00			
AI- J	0 / 0	-18.2	-18.2	0.07 (1)	10.00			

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
D	6-0-0	-418	-418	—	BACK	VERT	TOTAL	—	C1
G	21-4-0	-418	-418	—	BACK	VERT	TOTAL	—	C1
L	21-3-4	-21	-21	—	BACK	VERT	TOTAL	—	C1
N	15-3-4	-21	-21	—	BACK	VERT	TOTAL	—	C1
P	6-0-12	-21	-21	—	BACK	VERT	TOTAL	—	C1
S	8-0-12	-102	-102	—	BACK	VERT	TOTAL	—	C1
T	10-0-12	-102	-102	—	BACK	VERT	TOTAL	—	C1
U	12-0-12	-102	-102	—	BACK	VERT	TOTAL	—	C1

DESIGN CRITERIA

*** SPECIAL LOADS ANALYSIS ***
GEOMETRY AND/OR BASIC LOADS CHANGED BY USER.
LOADS WERE DERIVED FROM USER INPUT
NO FURTHER MODIFICATIONS WERE MADE

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

*** NON STANDARD GIRDER ***
ADDT'L USER-DEFINED LOADS APPLIED TO ALL LOAD CASES.

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 (0.28")
ALLOWABLE DEFL.(TL)= L/360 (0.91")
CALCULATED VERT. DEFL.(TL) = L/ 678 (0.48")

CSI: TC=0.85/0.97 (F-G:1) , BC=0.62/0.97 (M-O:1) , WB=0.76/0.97 (B-Q:1) , SSI=0.50/1.00 (F-G:1)

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

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) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) MAX	MIN
MT20	650	371	1747	788	1987	1873
MT18HS	586	403	2455	1382	3163	3004

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (O) (INPUT = 0.90)
JSI METAL= 0.90 (N) (INPUT = 1.00)

CONTINUED ON PAGE 2

KOTT

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
NE0723-039	G04	1	MHP 23031	TRUSS DESC.	

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
V	13-8-0	-102	-102	—	BACK	VERT	TOTAL	—	C1
W	15-3-4	-102	-102	—	BACK	VERT	TOTAL	—	C1
X	17-3-4	-102	-102	—	BACK	VERT	TOTAL	—	C1
Y	19-3-4	-102	-102	—	BACK	VERT	TOTAL	—	C1
Z	2-0-12	-21	-21	—	BACK	VERT	TOTAL	—	C1
AA	4-0-12	-21	-21	—	BACK	VERT	TOTAL	—	C1
AB	8-0-12	-21	-21	—	BACK	VERT	TOTAL	—	C1
AC	10-0-12	-21	-21	—	BACK	VERT	TOTAL	—	C1
AD	12-0-12	-21	-21	—	BACK	VERT	TOTAL	—	C1
AE	13-8-0	-21	-21	—	BACK	VERT	TOTAL	—	C1
AF	17-3-4	-21	-21	—	BACK	VERT	TOTAL	—	C1
AG	19-3-4	-21	-21	—	BACK	VERT	TOTAL	—	C1
AH	23-3-4	-21	-21	—	BACK	VERT	TOTAL	—	C1
AI	25-3-4	-21	-21	—	BACK	VERT	TOTAL	—	C1

CONNECTION REQUIREMENTS

1) **C1:** A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.

LICENSED PROFESSIONAL ENGINEER
N.A. EL-MASRI
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.

KOTT

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
NE0723-039	G05	1	1	TRUSS DESC.	

MHP 23031

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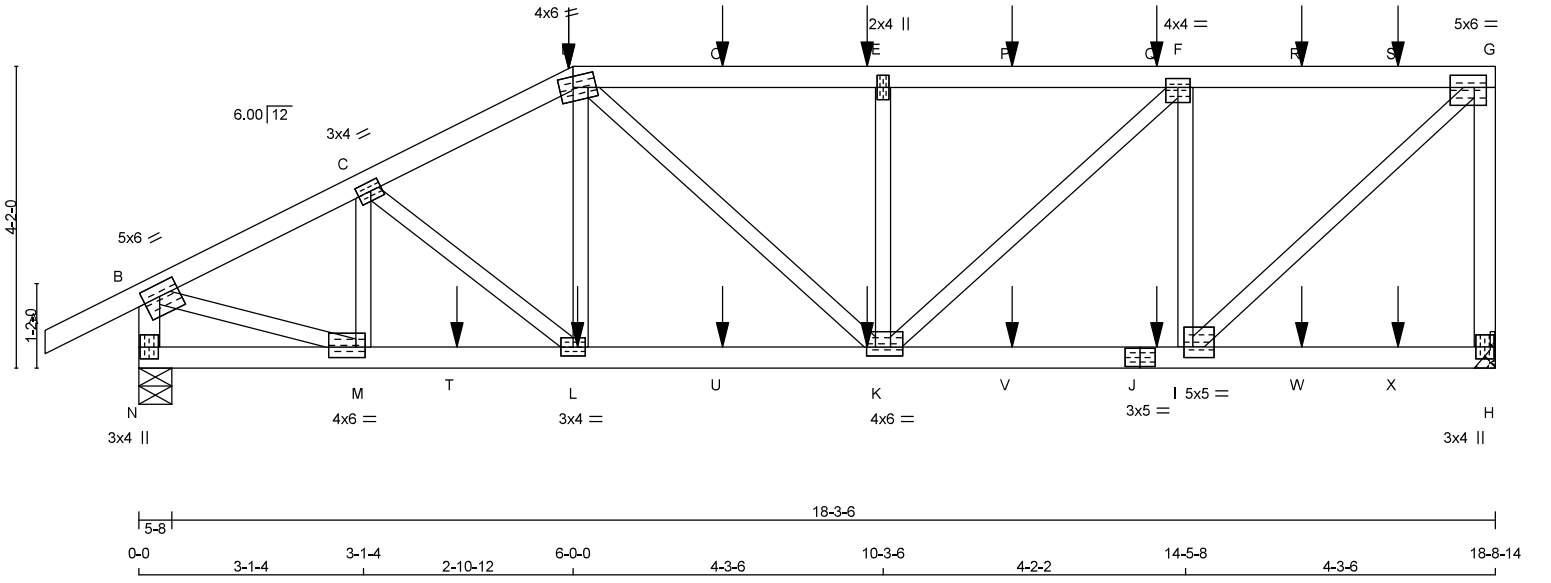
-1-3-8 3-1-4 2-10-12 6-0-0 4-3-6 10-3-6 4-2-2 14-5-8 4-3-6 18-8-14

Scale: 3/8"=1'



18-3-6

5-8 3-1-4 3-1-4 2-10-12 6-0-0 4-3-6 10-3-6 4-2-2 14-5-8 4-3-6 18-8-14

TOTAL WEIGHT = 79 lb [M]

LUMBER
N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
A - D	2x4	DRY	No.2	SPF
D - G	2x4	DRY	No.2	SPF
H - G	2x4	DRY	No.2	SPF
N - B	2x4	DRY	No.2	SPF
N - J	2x4	DRY	No.2	SPF
J - 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	5.0	6.0	2.00	2.75
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	TMWW-t	MT20	4.0	4.0	1.50	2.00
G	TMVW-t	MT20	5.0	6.0	2.00	2.00
H	BMV1+p	MT20	3.0	4.0		
I	BMWW-t	MT20	5.0	5.0	1.75	1.50
J	BS-t	MT20	3.0	5.0		
K	BMWWW-t	MT20	4.0	6.0	1.50	1.50
L	BMWW-t	MT20	3.0	4.0		
M	BMWW-t	MT20	4.0	6.0	1.75	1.50
N	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
H	2240	0	2240	0	0	MECHANICAL	
N	2248	0	2248	0	0	5-8	3-13

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT H. MINIMUM BEARING LENGTH AT JOINT H = 3-13.

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
H	1566	1129 / 0	0 / 0	0 / 0	0 / 0	437 / 0	0 / 0
N	1568	1151 / 0	0 / 0	0 / 0	0 / 0	417 / 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 = 3.10 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.

LOADING
TOTAL LOAD CASES: (4)

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 / 36	-119.4	-119.4	0.17 (1)	10.00	M- C	-620 / 0	0.11 (1)
B- C	-2720 / 0	-119.4	-119.4	0.26 (1)	3.91	C- L	0 / 187	0.05 (1)
C- D	-2915 / 0	-119.4	-119.4	0.27 (1)	3.78	L- D	0 / 122	0.05 (4)
D- O	-2855 / 0	-119.4	-119.4	0.61 (1)	3.31	D- K	0 / 355	0.09 (1)
O- E	-2855 / 0	-119.4	-119.4	0.61 (1)	3.31	K- E	-867 / 0	0.24 (1)
E- P	-2856 / 0	-119.4	-119.4	0.71 (1)	3.10	K- F	0 / 1101	0.27 (1)
P- Q	-2856 / 0	-119.4	-119.4	0.71 (1)	3.10	I- F	-1696 / 0	0.47 (1)
Q- F	-2856 / 0	-119.4	-119.4	0.71 (1)	3.10	I- G	0 / 2763	0.68 (1)
F- R	-2048 / 0	-119.4	-119.4	0.64 (1)	3.76	B- M	0 / 2537	0.63 (1)
R- S	-2048 / 0	-119.4	-119.4	0.64 (1)	3.76			
S- G	-2048 / 0	-119.4	-119.4	0.64 (1)	3.76			
H- G	-2184 / 0	0.0	0.0	0.61 (1)	5.62			
N- B	-2215 / 0	0.0	0.0	0.25 (1)	5.58			
N- M	0 / 0	-18.2	-18.2	0.05 (1)	10.00			
M- T	0 / 2445	-18.2	-18.2	0.50 (1)	10.00			
T- L	0 / 2445	-18.2	-18.2	0.50 (1)	10.00			
L- U	0 / 2592	-18.2	-18.2	0.52 (1)	10.00			
U- K	0 / 2592	-18.2	-18.2	0.52 (1)	10.00			
K- V	0 / 2048	-18.2	-18.2	0.44 (1)	10.00			
V- J	0 / 2048	-18.2	-18.2	0.44 (1)	10.00			
J- I	0 / 2048	-18.2	-18.2	0.44 (1)	10.00			
I- W	0 / 0	-18.2	-18.2	0.16 (4)	10.00			
W- X	0 / 0	-18.2	-18.2	0.16 (4)	10.00			
X- H	0 / 0	-18.2	-18.2	0.16 (4)	10.00			

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
D	6-0-0	-426	-426	—	FRONT	VERT	TOTAL	—	C1
E	10-0-12	-102	-102	—	FRONT	VERT	TOTAL	—	C1
J	14-0-12	-22	-22	—	FRONT	VERT	TOTAL	—	C1
K	10-0-12	-22	-22	—	FRONT	VERT	TOTAL	—	C1
L	6-0-12	-22	-22	—	FRONT	VERT	TOTAL	—	C1
O	8-0-12	-102	-102	—	FRONT	VERT	TOTAL	—	C1
P	12-0-12	-102	-102	—	FRONT	VERT	TOTAL	—	C1
Q	14-0-12	-102	-102	—	FRONT	VERT	TOTAL	—	C1
R	16-0-12	-102	-102	—	FRONT	VERT	TOTAL	—	C1
S	17-4-12	-102	-102	—	FRONT	VERT	TOTAL	—	C1
T	4-4-12	-31	-31	—	FRONT	VERT	TOTAL	—	C1
U	8-0-12	-22	-22	—	FRONT	VERT	TOTAL	—	C1
V	12-0-12	-22	-22	—	FRONT	VERT	TOTAL	—	C1
W	16-0-12	-22	-22	—	FRONT	VERT	TOTAL	—	C1
X	17-4-12	-22	-22	—	FRONT	VERT	TOTAL	—	C1

CONNECTION REQUIREMENTS

1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.

DESIGN CRITERIA

*** SPECIAL LOADS ANALYSIS ***
GEOMETRY AND/OR BASIC LOADS CHANGED BY USER.
LOADS WERE DERIVED FROM USER INPUT
NO FURTHER MODIFICATIONS WERE MADE

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

*** NON STANDARD GIRDER ***
ADDT'L USER-DEFINED LOADS APPLIED TO ALL LOAD CASES.

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 (0.09")
ALLOWABLE DEFL.(TL)= L/360 (0.62")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.16")

CSI: TC=0.71/0.97 (E-F:1) , BC=0.52/0.97 (K-L:1) , WB=0.68/0.97 (G-I:1) , SSI=0.41/1.00 (F-G:1)

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

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 (I) (INPUT = 0.90)
JSI METAL= 0.65 (B) (INPUT = 1.00)

CONTINUED ON PAGE 2

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.
NE0723-039	G05	1	1	TRUSS DESC.	

MHP 23031

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CONNECTION REQUIREMENTS

1) **C1:** A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.

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.
NE0723-039	G06	1	2	TRUSS DESC. MHP 23031	

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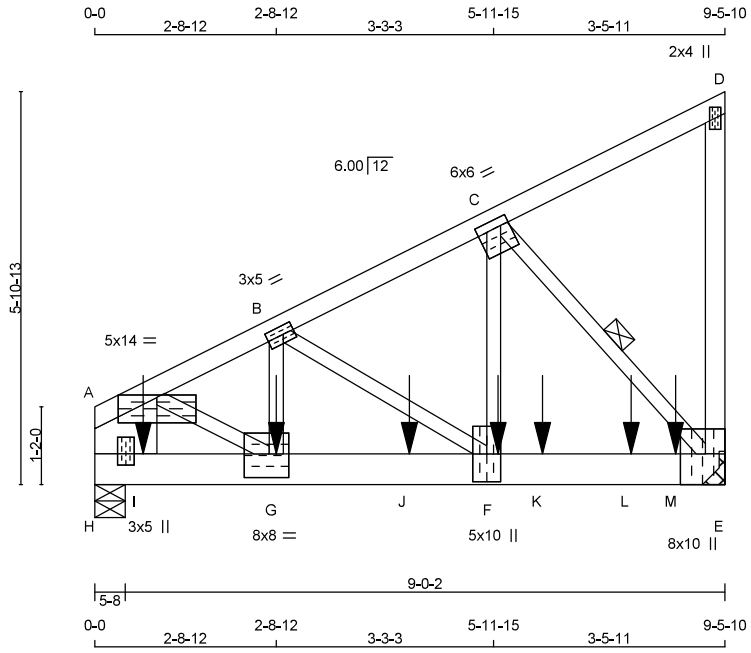
ID:5vUDB17_Ic6Oj0vAxsr4RFzBM45-zhW_O22MZsj_SaCZc0Ft9kVJYvTdQDMyrDh2lMz_Qtc



TOTAL WEIGHT = 2 X 51 = 101 lb [M]

LUMBER

N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
H - A	2x12	DRY	No.2	SPF
A - D	2x4	DRY	No.2	SPF
E - D	2x4	DRY	No.2	SPF
H - E	2x6	DRY	2100F 1.8E	SPF
ALL WEBS	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

DESIGN CONSISTS OF 2 TRUSSES BUILT SEPARATELY THEN FASTENED TOGETHER AS FOLLOWS:

CHORDS #ROWS	SURFACE SPACING (IN)		LOAD(PLF)
TOP CHORDS : (0.122"X3") SPIRAL NAILS			
H- A	3	12	TOP
A- D	1	12	TOP
D- E	1	12	TOP
BOTTOM CHORDS : (0.122"X3") SPIRAL NAILS			
H- E	2	12	SIDE(0.0)
WEBS : (0.122"X3") SPIRAL NAILS			
2x3	1	6	

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

GIRDER NAILING ASSUMES NAILED HANGERS ARE FASTENED WITH MIN. 3-0 INCH NAILS.

TOP - COMPONENTS ARE LOADED FROM THE TOP AND MUST BE PLACED ON TOP EDGE OF ALL PLIES FOR THE LOAD TO BE TRANSFERRED TO EACH PLY.

SIDE - PLF SHOWN IS THE EQUIVALENT UDL APPLIED TO ONE SIDE THAT THE CORRESPONDING NAILING PATTERN SHALL BE CAPABLE OF TRANSFERING. REMAINING PLF MUST BE APPLIED ON THE OPPOSITE SIDE OR ON THE TOP.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMVW-p	MT20	5.0	14.0	Edge	
B	TMWW-t	MT20	3.0	5.0	1.50	2.00
C	TMWW-t	MT20	6.0	6.0	1.50	1.50
D	TMV+p	MT20	2.0	4.0		
E	BMVW1+t	MT20	8.0	10.0	5.50	Edge
F	BMWW+t	MT20	5.0	10.0		
G	BMWW-t	MT20	8.0	8.0	4.25	3.50

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
H	7528	0	7528	0	0	5-8	3-9
E	7897	0	7897	0	0	MECHANICAL	

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT E. MINIMUM BEARING LENGTH AT JOINT E = 4-0.

UNFACTORED REACTIONS

1ST LCASE MAX./MIN. COMPONENT REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
H	5257	3828 / 0	0 / 0	0 / 0	0 / 0	1429 / 0	0 / 0
E	5513	4026 / 0	0 / 0	0 / 0	0 / 0	1486 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) H
BEARING SIZE FACTOR = 1.15 AT JNT(S) H (BASED ON SUPPORT DEPTH = 1-8)

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.43 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 C-E. DBS = 4-0-0 . CBF = 184 LBS.

DBS = DIAGONAL BRACE SPACING (MAX). CBF = CUMULATIVE BRACING FORCE (PER BRACE). FASTEN LATERAL BRACE(S) TO EACH PLY 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 MEMB.	FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1	MAX CSI (LC)	WEBS MAX. UNBRAC LENGTH	MEMB. FR-TO	FORCE (LBS)	MAX CSI (LC)
H- A	-5208 / 0	0.0	0.0	0.09 (1)	7.81	A- G	0 / 6670	0.83 (1)	
A- B	-7181 / 0	-119.4	-119.4	0.27 (1)	3.43	G- B	0 / 1373	0.17 (1)	
B- C	-5542 / 0	-119.4	-119.4	0.21 (1)	3.94	B- F	-1720 / 0	0.23 (1)	
C- D	-17 / 0	-119.4	-119.4	0.10 (1)	6.25	F- C	0 / 7399	0.92 (1)	
E- D	-169 / 0	0.0	0.0	0.05 (1)	7.81	C- E	-7348 / 0	0.80 (1)	
H- I	0 / 0	-18.2	-18.2	0.34 (1)	10.00				
I- G	0 / 0	-18.2	-18.2	0.34 (1)	10.00				
G- J	0 / 6417	-18.2	-18.2	0.40 (1)	10.00				
J- F	0 / 6417	-18.2	-18.2	0.40 (1)	10.00				
F- K	0 / 4978	-18.2	-18.2	0.53 (1)	10.00				
K- L	0 / 4978	-18.2	-18.2	0.53 (1)	10.00				
L- M	0 / 4978	-18.2	-18.2	0.53 (1)	10.00				
M- E	0 / 4978	-18.2	-18.2	0.53 (1)	10.00				

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
F	6-0-12	-1551	-1551	—	BACK	VERT	TOTAL	—	C1
G	2-8-12	-1300	-1300	—	FRONT	VERT	TOTAL	—	C1
I	8-12	-2216	-2216	—	FRONT	VERT	TOTAL	—	C1
J	4-8-12	-1300	-1300	—	FRONT	VERT	TOTAL	—	C1
K	6-8-12	-1300	-1300	—	FRONT	VERT	TOTAL	—	C1
L	8-0-12	-887	-887	—	BACK	VERT	TOTAL	—	C1
M	8-8-12	-1302	-1302	—	FRONT	VERT	TOTAL	—	C1

CONNECTION REQUIREMENTS

1) **C1:** A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.

DESIGN CRITERIA

*** SPECIAL LOADS ANALYSIS ***
GEOMETRY AND/OR BASIC LOADS CHANGED BY USER.
LOADS WERE DERIVED FROM USER INPUT
NO FURTHER MODIFICATIONS WERE MADE

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

*** NON STANDARD GIRDER ***
ADDT'L USER-DEFINED LOADS APPLIED TO ALL LOAD CASES.

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 (0.32")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.06")
ALLOWABLE DEFL.(TL)= L/360 (0.32")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.10")

CSI: TC=0.27/0.97 (A-B:1) , BC=0.53/0.97 (E-F:1) , WB=0.92/0.97 (C-F:1) , SSI=0.91/1.00 (E-F:1)

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

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 (C) (INPUT = 0.90)
JSI METAL= 0.64 (C) (INPUT = 1.00)

CONTINUED ON PAGE 2

KOTT

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
NE0723-039	G06	1	2	TRUSS DESC.	

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PLATES (table is in inches)

J	TYPE	PLATES	W	LEN	Y	X
H	BMV1+p	MT20	3.0	5.0	2.00	1.50

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

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.
NE0723-039	G07	1	1	TRUSS DESC.	

MHP 23031

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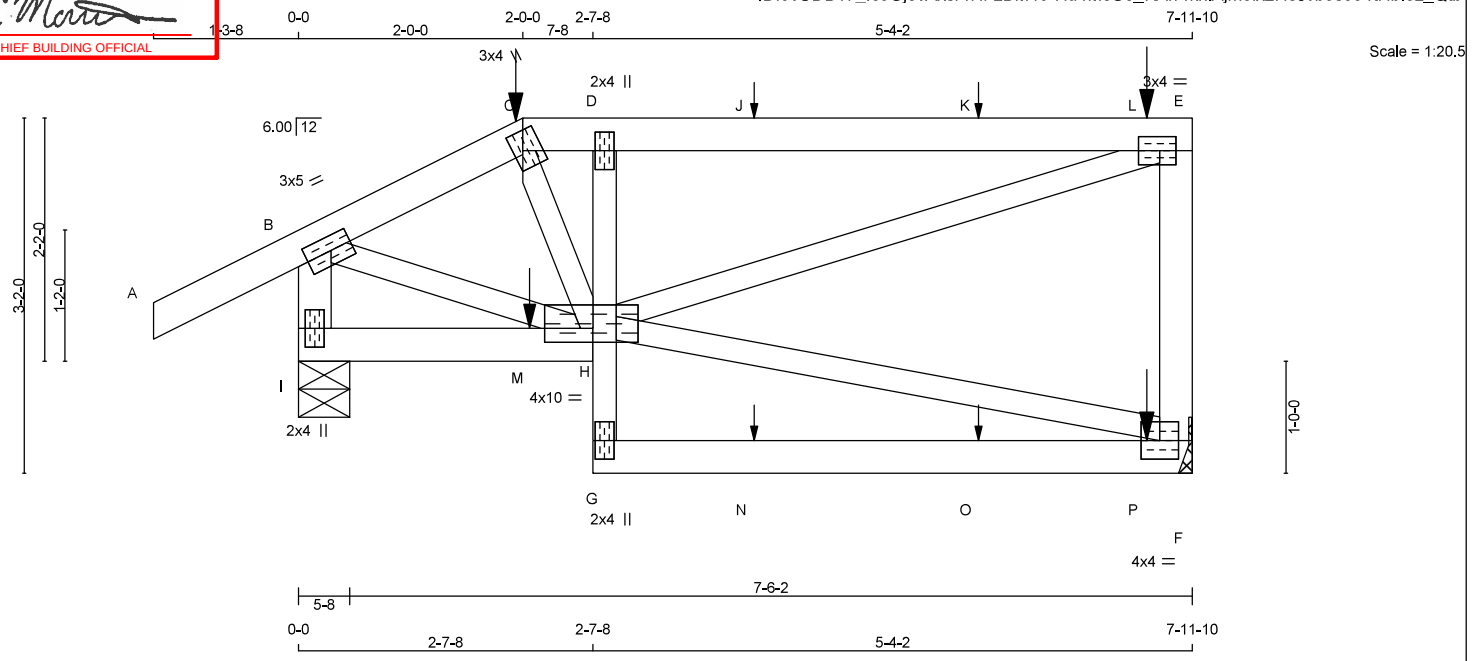

TOTAL WEIGHT = 38 lb [M]

LUMBER
N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
A - C	2x4	DRY	No.2	SPF
C - E	2x4	DRY	No.2	SPF
F - E	2x4	DRY	No.2	SPF
I - B	2x4	DRY	No.2	SPF
I - H	2x4	DRY	No.2	SPF
G - D	2x3	DRY	No.2	SPF
G - 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
B	TMVW-r	MT20	3.0	5.0	1.50	2.25
C	TTW+h	MT20	3.0	4.0	2.00	1.00
D	TMV+p	MT20	2.0	4.0		
E	TMVW-r	MT20	3.0	4.0	1.50	1.75
F	BMVW1-r	MT20	4.0	4.0		
G	BMV+p	MT20	2.0	4.0		
H	BVMWWWW*-r	MT20	4.0	10.0	1.50	3.75
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
F	560	0	560	0	0	MECHANICAL	
I	714	0	714	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

	1ST LCASE	MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
F	392	281 / 0	0 / 0	0 / 0	0 / 0	111 / 0	0 / 0
I	497	372 / 0	0 / 0	0 / 0	0 / 0	125 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.15 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 7.16 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. FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	MAX UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FORCE (LBS)	MAX CSI (LC)
A- B	0 / 36	-119.4	-119.4	0.17 (1)	10.00	C- H	0 / 556	0.14 (1)
B- C	-558 / 0	-119.4	-119.4	0.09 (1)	6.25	H- F	-14 / 0	0.01 (1)
C- D	-696 / 0	-119.4	-119.4	0.49 (1)	6.15	H- E	0 / 736	0.18 (1)
D- J	-693 / 0	-119.4	-119.4	0.51 (1)	6.16	B- H	0 / 522	0.13 (1)
J- K	-693 / 0	-119.4	-119.4	0.51 (1)	6.16			
K- L	-693 / 0	-119.4	-119.4	0.51 (1)	6.16			
L- E	-693 / 0	-119.4	-119.4	0.51 (1)	6.16			
F- E	-506 / 0	0.0	0.0	0.09 (1)	7.81			
I- B	-689 / 0	0.0	0.0	0.08 (1)	7.81			
I- M	0 / 0	-18.2	-18.2	0.04 (4)	10.00			
M- H	0 / 0	-18.2	-18.2	0.04 (4)	10.00			
G- H	0 / 54	0.0	0.0	0.05 (1)	10.00			
H- D	-852 / 0	0.0	0.0	0.07 (1)	7.16			
G- N	0 / 14	-18.2	-18.2	0.16 (4)	10.00			
N- O	0 / 14	-18.2	-18.2	0.16 (4)	10.00			
O- P	0 / 14	-18.2	-18.2	0.16 (4)	10.00			
P- F	0 / 14	-18.2	-18.2	0.16 (4)	10.00			

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
C	2-0-0	-3	-3	—	BACK	VERT	TOTAL	—	C1
J	4-0-12	1	1	—	BACK	VERT	TOTAL	—	C1
K	6-0-12	1	1	—	BACK	VERT	TOTAL	—	C1
L	7-6-12	-5	-5	—	BACK	VERT	TOTAL	—	C1
M	2-0-12	-1	-1	—	BACK	VERT	TOTAL	—	C1
N	4-0-12	1	1	—	BACK	VERT	TOTAL	—	C1
O	6-0-12	1	1	—	BACK	VERT	TOTAL	—	C1
P	7-6-12	-3	-3	—	BACK	VERT	TOTAL	—	C1

CONNECTION REQUIREMENTS

1) **C1:** A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.

DESIGN CRITERIA

*** SPECIAL LOADS ANALYSIS ***
GEOMETRY AND/OR BASIC LOADS CHANGED BY USER.
LOADS WERE DERIVED FROM USER INPUT
NO FURTHER MODIFICATIONS WERE MADE

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

*** NON STANDARD GIRDER ***
ADDT'L USER-DEFINED LOADS APPLIED TO ALL LOAD CASES.

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 (0.04")

CSI: TC=0.51/0.97 (D-E:1) , BC=0.16/0.97 (F-G:4) , WB=0.18/0.97 (E-H:1) , SSI=0.42/1.00 (C-D:1)

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

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 (E) (INPUT = 0.90)
JSI METAL= 0.24 (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.

KOTT

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
NE0723-039	G08	2	1	MHP 23031 TRUSS DESC.	

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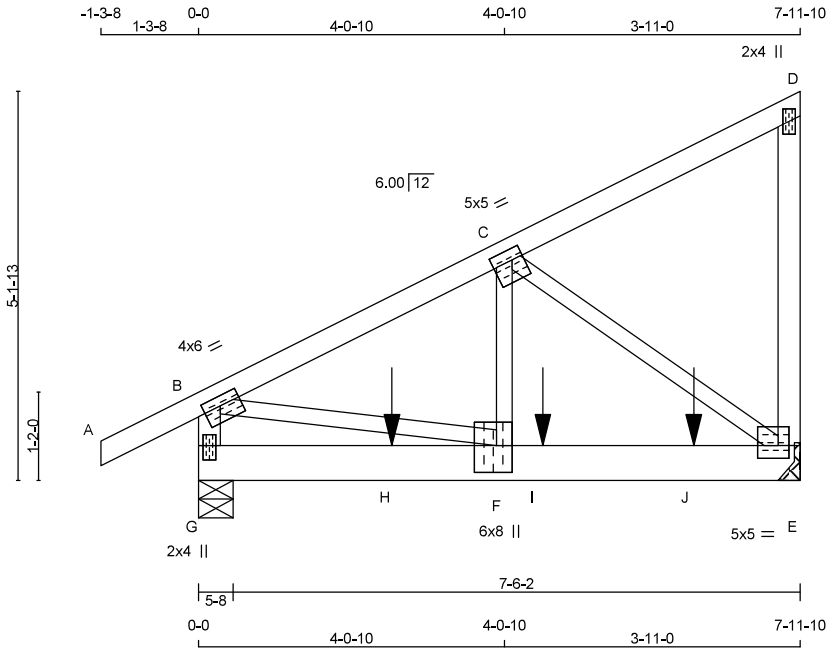

TOTAL WEIGHT = 2 X 40 = 81 lb [M]

LUMBER
N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
A - D	2x4	DRY	No.2	SPF
E - D	2x4	DRY	No.2	SPF
G - B	2x4	DRY	No.2	SPF
G - E	2x6	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	1.50	2.75
C	TMWW-t	MT20	5.0	5.0	1.75	1.75
D	TMV+p	MT20	2.0	4.0		
E	BMVW1-t	MT20	5.0	5.0	2.00	1.75
F	BMWW+t	MT20	6.0	8.0	4.25	2.50
G	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	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
E	2299	0	2299	0	0	MECHANICAL	
G	2189	0	2189	0	0	5-8	3-10

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT E. MINIMUM BEARING LENGTH AT JOINT E = 2-8.

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
E	1603	1180 / 0	0 / 0	0 / 0	0 / 0	424 / 0	0 / 0
G	1525	1134 / 0	0 / 0	0 / 0	0 / 0	390 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.93 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	0.17 (1)	10.00	F- C	0 / 2068	0.51 (1)
B- C	-2410 / 0	-119.4	-119.4	0.41 (1)	3.93	C- E	-2673 / 0	0.97 (1)
C- D	-22 / 0	-119.4	-119.4	0.29 (1)	6.25	B- F	0 / 2214	0.55 (1)
E- D	-184 / 0	0.0	0.0	0.08 (1)	7.81			
G- B	-1858 / 0	0.0	0.0	0.21 (1)	6.03			
G- H	0 / 0	-18.2	-18.2	0.59 (1)	10.00			
H- F	0 / 0	-18.2	-18.2	0.59 (1)	10.00			
F- I	0 / 2175	-18.2	-18.2	0.87 (1)	10.00			
I- J	0 / 2175	-18.2	-18.2	0.87 (1)	10.00			
J- E	0 / 2175	-18.2	-18.2	0.87 (1)	10.00			

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
H	2-6-12	-932	-932	—	FRONT	VERT	TOTAL	—	C1
I	4-6-12	-659	-659	—	FRONT	VERT	TOTAL	—	C1
J	6-6-12	-659	-659	—	FRONT	VERT	TOTAL	—	C1

CONNECTION REQUIREMENTS

1) **C1:** A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.

DESIGN CRITERIA

*** SPECIAL LOADS ANALYSIS ***
GEOMETRY AND/OR BASIC LOADS CHANGED BY USER.
LOADS WERE DERIVED FROM USER INPUT
NO FURTHER MODIFICATIONS WERE MADE

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

*** NON STANDARD GIRDER ***
ADDT'L USER-DEFINED LOADS APPLIED TO ALL LOAD CASES.

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 (0.05")
ALLOWABLE DEFL.(TL)= L/360 (0.27")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.08")

CSI: TC=0.41/0.97 (B-C:1) , BC=0.87/0.97 (E-F:1) , WB=0.97/0.97 (C-E:1) , SSI=0.93/1.00 (E-F:1)

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

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 (C) (INPUT = 0.90)
JSI METAL= 0.65 (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.

KOTT

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
NE0723-039	G10	1	1	MHP 23031 TRUSS DESC.	

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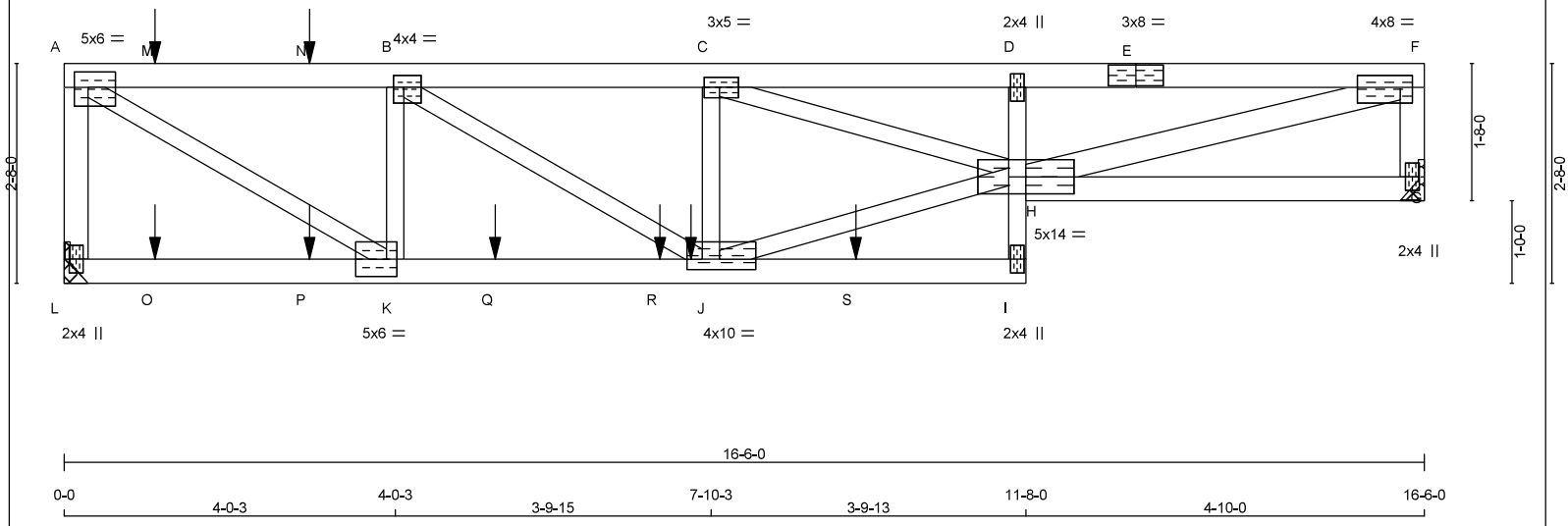

TOTAL WEIGHT = 64 lb [M]

LUMBER
N. L. G. A. RULES

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMVW-t	MT20	5.0	6.0	2.25	2.00
B	TMWW-t	MT20	4.0	4.0	1.75	1.50
C	TMWW-t	MT20	3.0	5.0	1.50	2.25
D	TMV+p	MT20	2.0	4.0		
E	TS-t	MT20	3.0	8.0		
F	TMVW-t	MT20	4.0	8.0	1.75	1.75
G	BMV1+p	MT20	2.0	4.0		
H	BVMWWW-t	MT20	5.0	14.0		
I	BMV+p	MT20	2.0	4.0		
J	BMWWW-t	MT20	4.0	10.0	1.50	2.25
K	BMWW-t	MT20	5.0	6.0	2.50	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 VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
L	1703	0	1703	0	0	MECHANICAL	
G	1582	0	1582	0	0	MECHANICAL	

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT L, G. MINIMUM BEARING LENGTH AT JOINT L = 2-1, JOINT G = 1-11.

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
L	1187	876 / 0	0 / 0	0 / 0	0 / 0	311 / 0	0 / 0
G	1103	814 / 0	0 / 0	0 / 0	0 / 0	288 / 0	0 / 0

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.32 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 7.61 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)	VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
L-A	-1680 / 0	0.0	0.0	0.24 (1)	6.29	A-K	0 / 2889	0.72 (1)
A-M	-2487 / 0	-119.4	-119.4	0.38 (1)	3.91	K-B	-1202 / 0	0.21 (1)
M-N	-2487 / 0	-119.4	-119.4	0.38 (1)	3.91	B-J	0 / 1230	0.30 (1)
N-B	-2487 / 0	-119.4	-119.4	0.38 (1)	3.91	J-C	-759 / 0	0.13 (1)
B-C	-3532 / 0	-119.4	-119.4	0.48 (1)	3.22	J-H	0 / 3534	0.87 (1)
C-D	-4482 / 0	-119.4	-119.4	0.54 (1)	2.79	C-H	0 / 1014	0.25 (1)
D-E	-4569 / 0	-119.4	-119.4	0.91 (1)	2.32	H-F	0 / 4743	0.84 (1)
E-F	-4569 / 0	-119.4	-119.4	0.91 (1)	2.32			
G-F	-1537 / 0	0.0	0.0	0.18 (1)	6.52			
L-O	0 / 0	-18.2	-18.2	0.11 (1)	10.00			
O-P	0 / 0	-18.2	-18.2	0.11 (1)	10.00			
P-K	0 / 0	-18.2	-18.2	0.11 (1)	10.00			
K-Q	0 / 2487	-18.2	-18.2	0.70 (1)	10.00			
Q-R	0 / 2487	-18.2	-18.2	0.70 (1)	10.00			
R-J	0 / 2487	-18.2	-18.2	0.70 (1)	10.00			
J-S	0 / 119	-18.2	-18.2	0.28 (1)	10.00			
S-I	0 / 119	-18.2	-18.2	0.28 (1)	10.00			
I-H	0 / 95	0.0	0.0	0.37 (1)	10.00			
H-D	-565 / 0	0.0	0.0	0.36 (1)	7.61			
H-G	0 / 0	-18.2	-18.2	0.14 (4)	10.00			

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
J	7-7-4	-178	-178	—	BACK	VERT	TOTAL	—	C1
M	1-1-4	-10	-10	—	BACK	VERT	TOTAL	—	C1
N	2-11-12	-10	-10	—	BACK	VERT	TOTAL	—	C1
O	1-1-4	-4	-4	—	BACK	VERT	TOTAL	—	C1
P	2-11-12	-4	-4	—	BACK	VERT	TOTAL	—	C1
Q	5-2-12	-159	-159	—	BACK	VERT	TOTAL	—	C1
R	7-2-12	-178	-178	—	BACK	VERT	TOTAL	—	C1
S	9-7-4	-159	-159	—	BACK	VERT	TOTAL	—	C1

CONNECTION REQUIREMENTS

1) **C1**: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.

DESIGN CRITERIA

*** SPECIAL LOADS ANALYSIS ***
GEOMETRY AND/OR BASIC LOADS CHANGED BY USER.
LOADS WERE DERIVED FROM USER INPUT
NO FURTHER MODIFICATIONS WERE MADE

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

*** NON STANDARD GIRDER ***
ADDT'L USER-DEFINED LOADS APPLIED TO ALL LOAD CASES.

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/ 940 (0.21")
ALLOWABLE DEFL.(TL)= L/360 (0.55")
CALCULATED VERT. DEFL.(TL) = L/ 556 (0.36")

CSI: TC=0.91/0.97 (D-F:1) , BC=0.70/0.97 (J-K:1) , WB=0.87/0.97 (H-J:1) , SSI=0.30/1.00 (J-K:1)

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

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 (J) (INPUT = 0.90)
JSI METAL= 0.86 (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.

KOTT

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
NE0723-039	G11	1	1	TRUSS DESC.	

MHP 23031

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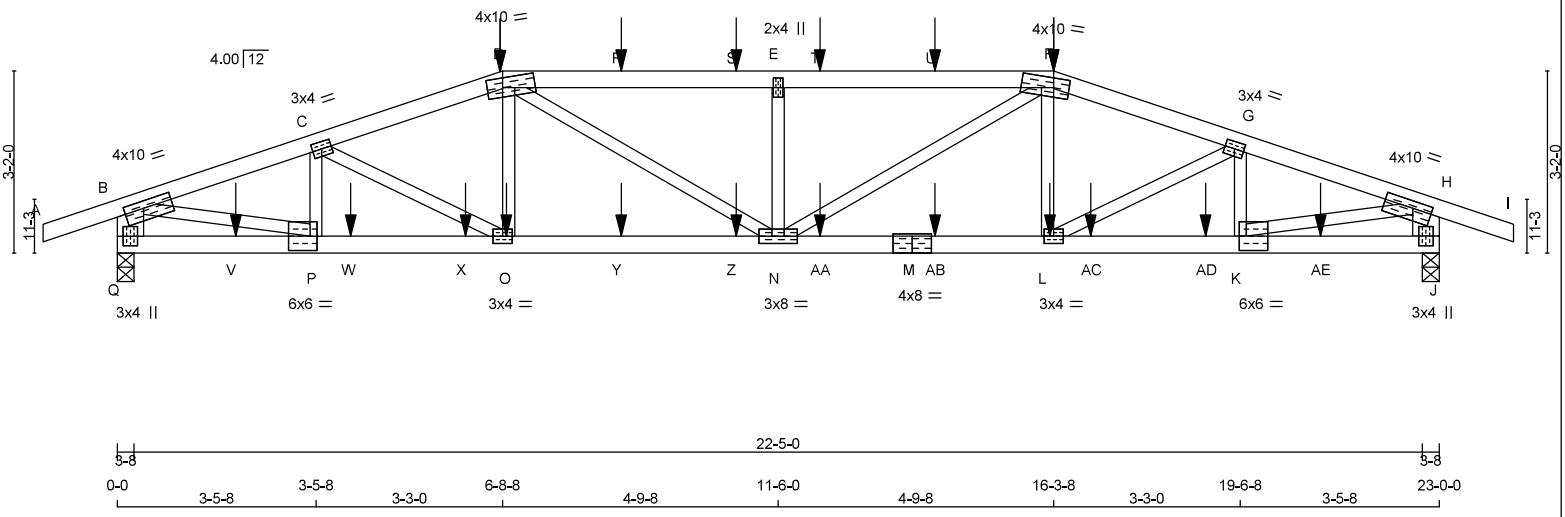

TOTAL WEIGHT = 86 lb [M]

LUMBER
N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
A - D	2x4	DRY	No.2	SPF
D - F	2x4	DRY	2100F 1.8E	SPF
F - I	2x4	DRY	No.2	SPF
Q - B	2x6	DRY	No.2	SPF
J - H	2x6	DRY	No.2	SPF
Q - 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	10.0	1.50	4.00
C	TMWW-t	MT20	3.0	4.0		
D	TTWW-m	MT20	4.0	10.0	2.00	3.25
E	TMW+w	MT20	2.0	4.0		
F	TTWW-m	MT20	4.0	10.0	2.00	3.25
G	TMWW-t	MT20	3.0	4.0		
H	TMVW-t	MT20	4.0	10.0	1.50	4.00
J	BMV1+p	MT20	3.0	4.0		
K	BMWW-t	MT20	6.0	6.0	3.00	1.50
L	BMWW-t	MT20	3.0	4.0		
M	BS-t	MT20	4.0	8.0		
N	BMWWW-t	MT20	3.0	8.0		
O	BMWW-t	MT20	3.0	4.0		
P	BMWW-t	MT20	6.0	6.0	3.00	1.50
Q	BMV1+p	MT20	3.0	4.0		

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
Q	2329	0	2329	0	0	3-8	2-8
J	2329	0	2329	0	0	3-8	2-8

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
Q	1626	1187 / 0	0 / 0	0 / 0	0 / 0	440 / 0	0 / 0
J	1626	1187 / 0	0 / 0	0 / 0	0 / 0	440 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.01 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 LC1 (PLF) FROM	TO	MAX CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
A- B	0 / 25	-119.4	-119.4	0.16 (1)	10.00	P- C	-646 / 0	0.11 (1)
B- C	-3954 / 0	-119.4	-119.4	0.44 (1)	3.09	C- O	0 / 243	0.06 (1)
C- D	-4199 / 0	-119.4	-119.4	0.43 (1)	3.01	O- D	0 / 103	0.04 (4)
D- R	-4790 / 0	-119.4	-119.4	0.55 (1)	3.42	D- N	0 / 951	0.24 (1)
R- S	-4790 / 0	-119.4	-119.4	0.55 (1)	3.42	N- E	-872 / 0	0.17 (1)
S- E	-4790 / 0	-119.4	-119.4	0.55 (1)	3.42	N- F	0 / 951	0.24 (1)
E- T	-4790 / 0	-119.4	-119.4	0.55 (1)	3.42	L- F	0 / 103	0.04 (4)
T- U	-4790 / 0	-119.4	-119.4	0.55 (1)	3.42	L- G	0 / 243	0.06 (1)
U- F	-4790 / 0	-119.4	-119.4	0.55 (1)	3.42	K- G	-646 / 0	0.11 (1)
F- G	-4199 / 0	-119.4	-119.4	0.43 (1)	3.01	B- P	0 / 3821	0.95 (1)
G- H	-3954 / 0	-119.4	-119.4	0.44 (1)	3.09	K- H	0 / 3821	0.95 (1)
H- I	0 / 25	-119.4	-119.4	0.16 (1)	10.00			
Q- B	-2279 / 0	0.0	0.0	0.16 (1)	6.67			
J- H	-2279 / 0	0.0	0.0	0.16 (1)	6.67			
Q- V	0 / 0	-18.2	-18.2	0.10 (1)	10.00			
V- P	0 / 0	-18.2	-18.2	0.10 (1)	10.00			
P- W	0 / 3759	-18.2	-18.2	0.75 (1)	10.00			
W- X	0 / 3759	-18.2	-18.2	0.75 (1)	10.00			
X- O	0 / 3759	-18.2	-18.2	0.75 (1)	10.00			
O- Y	0 / 3974	-18.2	-18.2	0.77 (1)	10.00			
Y- Z	0 / 3974	-18.2	-18.2	0.77 (1)	10.00			
Z- N	0 / 3974	-18.2	-18.2	0.77 (1)	10.00			
N-AA	0 / 3974	-18.2	-18.2	0.77 (1)	10.00			
AA- M	0 / 3974	-18.2	-18.2	0.77 (1)	10.00			
M-AB	0 / 3974	-18.2	-18.2	0.77 (1)	10.00			
AB- L	0 / 3974	-18.2	-18.2	0.77 (1)	10.00			
L-AC	0 / 3759	-18.2	-18.2	0.75 (1)	10.00			
AC-AD	0 / 3759	-18.2	-18.2	0.75 (1)	10.00			
AD- K	0 / 3759	-18.2	-18.2	0.75 (1)	10.00			
K-AE	0 / 0	-18.2	-18.2	0.10 (1)	10.00			
AE- J	0 / 0	-18.2	-18.2	0.10 (1)	10.00			

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
D	6-8-8	-269	-269	—	FRONT	VERT	TOTAL	—	C1
F	16-3-8	-269	-269	—	FRONT	VERT	TOTAL	—	C1
L	16-2-12	-10	-10	—	FRONT	VERT	TOTAL	—	C1
O	6-9-4	-10	-10	—	FRONT	VERT	TOTAL	—	C1
R	8-9-4	-41	-41	—	FRONT	VERT	TOTAL	—	C1
S	10-9-4	-41	-41	—	FRONT	VERT	TOTAL	—	C1
T	12-2-12	-41	-41	—	FRONT	VERT	TOTAL	—	C1
U	14-2-12	-41	-41	—	FRONT	VERT	TOTAL	—	C1
V	2-0-12	-8	-8	—	FRONT	VERT	TOTAL	—	C1
W	4-0-12	-10	-10	—	FRONT	VERT	TOTAL	—	C1
X	6-0-12	-10	-10	—	FRONT	VERT	TOTAL	—	C1
Y	8-9-4	-10	-10	—	FRONT	VERT	TOTAL	—	C1
Z	10-9-4	-10	-10	—	FRONT	VERT	TOTAL	—	C1
AA	12-2-12	-10	-10	—	FRONT	VERT	TOTAL	—	C1
AB	14-2-12	-10	-10	—	FRONT	VERT	TOTAL	—	C1
AC	16-11-4	-10	-10	—	FRONT	VERT	TOTAL	—	C1
AD	18-11-4	-10	-10	—	FRONT	VERT	TOTAL	—	C1

DESIGN CRITERIA

*** SPECIAL LOADS ANALYSIS ***
GEOMETRY AND/OR BASIC LOADS CHANGED BY USER.
LOADS WERE DERIVED FROM USER INPUT
NO FURTHER MODIFICATIONS WERE MADE

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

*** NON STANDARD GIRDER ***
ADDT'L USER-DEFINED LOADS APPLIED TO ALL LOAD CASES.

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 (0.22")
ALLOWABLE DEFL.(TL)= L/360 (0.77")
CALCULATED VERT. DEFL.(TL) = L/ 747 (0.37")

CSI: TC=0.55/0.97 (D-E:1) , BC=0.77/0.97 (L-N:1) , WB=0.95/0.97 (H-K:1) , SSI=0.38/1.00 (E-F:1)

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

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 (B) (INPUT = 0.90)
JSI METAL= 1.00 (D) (INPUT = 1.00)

CONTINUED ON PAGE 2

KOTT

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
NE0723-039	G11	1	MHP 23031	TRUSS DESC.	

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SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
AE	20-11-4	-8	-8	—	FRONT	VERT	TOTAL	—	C1

CONNECTION REQUIREMENTS

1) **C1:** A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.

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.
NE0723-039	G12	1	1	TRUSS DESC.	

MHP 23031

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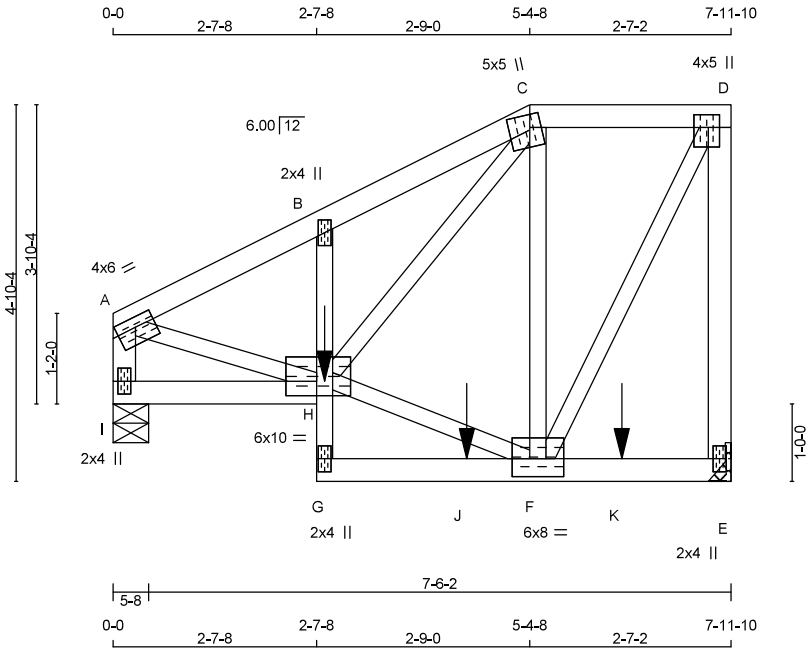

TOTAL WEIGHT = 42 lb [M]

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
I - A	2x4	DRY	No.2	SPF
I - H	2x4	DRY	No.2	SPF
G - B	2x3	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
A	TMVW-t	MT20	4.0	6.0	1.50	3.00
B	TMV+p	MT20	2.0	4.0		
C	TTWW+m	MT20	5.0	5.0	2.00	1.75
D	TMVW+p	MT20	4.0	5.0	2.00	1.75
E	BMV1+p	MT20	2.0	4.0		
F	BMWWW-t	MT20	6.0	8.0	2.75	4.00
G	BMV+p	MT20	2.0	4.0		
H	BVMWWW-I	MT20	6.0	10.0	2.25	4.75
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
E	1898	0	1898	0	0	MECHANICAL	
I	1677	0	1677	0	0	5-8	1-15

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT E. MINIMUM BEARING LENGTH AT JOINT E = 2-11.

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
E	1323	976 / 0	0 / 0	0 / 0	0 / 0	347 / 0	0 / 0
I	1169	860 / 0	0 / 0	0 / 0	0 / 0	309 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.48 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 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	-2064 / 0	-119.4	-119.4	0.19 (1)	4.48	H- F	0 / 877	0.22 (1)
B- C	-2050 / 0	-119.4	-119.4	0.19 (1)	4.49	H- C	0 / 1610	0.40 (1)
C- D	-848 / 0	-119.4	-119.4	0.16 (1)	6.25	F- C	-677 / 0	0.24 (1)
E- D	-1706 / 0	0.0	0.0	0.68 (1)	6.24	F- D	0 / 1771	0.44 (1)
I- A	-1652 / 0	0.0	0.0	0.18 (1)	6.33	A- H	0 / 1942	0.48 (1)
I- H	0 / 0	-18.2	-18.2	0.04 (4)	10.00			
G- H	0 / 135	0.0	0.0	0.15 (1)	10.00			
H- B	-346 / 0	0.0	0.0	0.12 (1)	7.81			
G- J	0 / 39	-18.2	-18.2	0.52 (1)	10.00			
J- F	0 / 39	-18.2	-18.2	0.52 (1)	10.00			
F- K	0 / 0	-18.2	-18.2	0.51 (1)	10.00			
K- E	0 / 0	-18.2	-18.2	0.51 (1)	10.00			

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
H	2-8-12	-745	-745	—	FRONT	VERT	TOTAL	—	C1
J	4-6-12	-491	-491	—	FRONT	VERT	TOTAL	—	C1
K	6-6-12	-491	-491	—	FRONT	VERT	TOTAL	—	C1

CONNECTION REQUIREMENTS

1) **C1:** A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.

DESIGN CRITERIA

*** SPECIAL LOADS ANALYSIS ***
GEOMETRY AND/OR BASIC LOADS CHANGED BY USER.
LOADS WERE DERIVED FROM USER INPUT
NO FURTHER MODIFICATIONS WERE MADE

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

*** NON STANDARD GIRDER ***
ADDT'L USER-DEFINED LOADS APPLIED TO ALL LOAD CASES.

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 (0.04")
ALLOWABLE DEFL.(TL)= L/360 (0.27")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.07")

CSI: TC=0.68/0.97 (D-E:1) , BC=0.52/0.97 (F-G:1) , WB=0.48/0.97 (A-H:1) , SSI=0.53/1.00 (F-G:1)

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

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= 0.90 (D) (INPUT = 0.90)
JSI METAL= 0.51 (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.

KOTT

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
NE0723-039	G13	1	1	TRUSS DESC.	

MHP 23031

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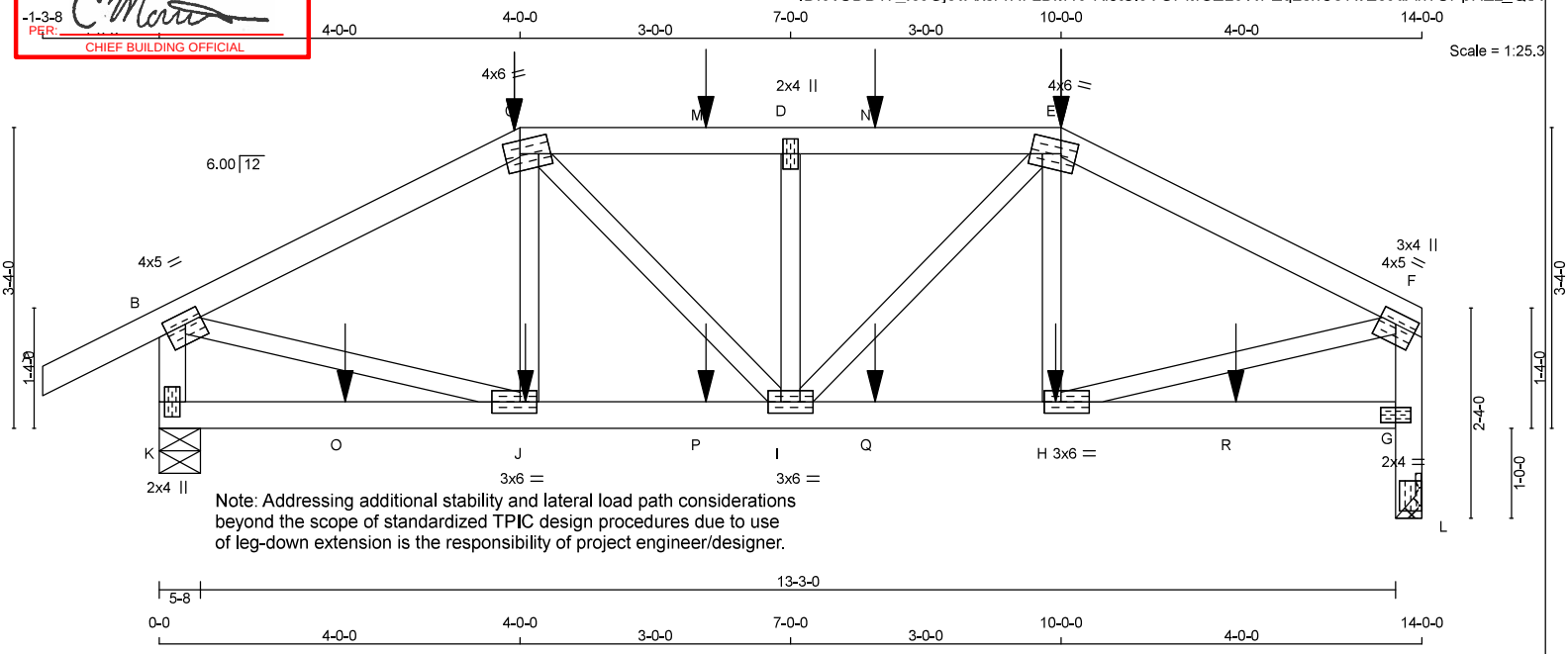

Note: Addressing additional stability and lateral load path considerations beyond the scope of standardized TPIC design procedures due to use of leg-down extension is the responsibility of project engineer/designer.

TOTAL WEIGHT = 57 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 - 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-t	MT20	4.0	5.0	1.50	2.25
C	TTWW-m	MT20	4.0	6.0	1.75	2.00
D	TMW+w	MT20	2.0	4.0		
E	TTWW-m	MT20	4.0	6.0	1.75	2.00
F	TMVW-t	MT20	4.0	5.0	1.50	2.25
G	BVM-l	MT20	2.0	4.0		
H	BMWW-t	MT20	3.0	6.0	1.50	2.25
I	BMWWW-t	MT20	3.0	6.0		
J	BMWW-t	MT20	3.0	6.0	1.50	2.25
K	BMV1+p	MT20	2.0	4.0		
L	EBSP-t	MT20	3.0	4.0		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	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
K	1518	0	1518	0	0	5-8	1-10
L	1356	0	1356	0	0	MECHANICAL	

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

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
K	1058	784 / 0	0 / 0	0 / 0	0 / 0	273 / 0	0 / 0
L	947	690 / 0	0 / 0	0 / 0	0 / 0	257 / 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 = 4.62 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	0.17 (1)	10.00	J- C	-255 / 22	0.05 (1)
B- C	-1606 / 0	-119.4	-119.4	0.42 (1)	4.62	C- I	0 / 403	0.10 (1)
C- M	-1710 / 0	-119.4	-119.4	0.26 (1)	4.74	I- D	-525 / 0	0.11 (1)
M- D	-1710 / 0	-119.4	-119.4	0.26 (1)	4.74	I- E	0 / 403	0.10 (1)
D- N	-1710 / 0	-119.4	-119.4	0.26 (1)	4.74	H- E	-255 / 22	0.05 (1)
N- E	-1710 / 0	-119.4	-119.4	0.26 (1)	4.74	B- J	0 / 1480	0.37 (1)
E- F	-1606 / 0	-119.4	-119.4	0.42 (1)	4.62	H- F	0 / 1480	0.37 (1)
K- B	-1480 / 0	0.0	0.0	0.17 (1)	6.61			
L- G	-1356 / 0	0.0	0.0	0.16 (1)	6.85			
G- F	-1318 / 0	0.0	0.0	0.15 (1)	6.93			
K- O	0 / 0	-18.2	-18.2	0.09 (4)	10.00			
O- J	0 / 0	-18.2	-18.2	0.09 (4)	10.00			
J- P	0 / 1427	-18.2	-18.2	0.29 (1)	10.00			
P- I	0 / 1427	-18.2	-18.2	0.29 (1)	10.00			
I- Q	0 / 1427	-18.2	-18.2	0.29 (1)	10.00			
Q- H	0 / 1427	-18.2	-18.2	0.29 (1)	10.00			
H- R	0 / 0	-18.2	-18.2	0.09 (4)	10.00			
R- G	0 / 0	-18.2	-18.2	0.09 (4)	10.00			

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
C	4-0-0	-202	-202	—	BACK	VERT	TOTAL	—	C1
E	10-0-0	-202	-202	—	BACK	VERT	TOTAL	—	C1
H	9-11-4	-10	-10	—	BACK	VERT	TOTAL	—	C1
J	4-0-12	-10	-10	—	BACK	VERT	TOTAL	—	C1
M	6-0-12	-41	-41	—	BACK	VERT	TOTAL	—	C1
N	7-11-4	-41	-41	—	BACK	VERT	TOTAL	—	C1
O	2-0-12	-10	-10	—	BACK	VERT	TOTAL	—	C1
P	6-0-12	-10	-10	—	BACK	VERT	TOTAL	—	C1
Q	7-11-4	-10	-10	—	BACK	VERT	TOTAL	—	C1
R	11-11-4	-10	-10	—	BACK	VERT	TOTAL	—	C1

CONNECTION REQUIREMENTS

1) **C1:** A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.

DESIGN CRITERIA

*** SPECIAL LOADS ANALYSIS ***
GEOMETRY AND/OR BASIC LOADS CHANGED BY USER.
LOADS WERE DERIVED FROM USER INPUT
NO FURTHER MODIFICATIONS WERE MADE

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

*** NON STANDARD GIRDER ***
ADDT'L USER-DEFINED LOADS APPLIED TO ALL LOAD CASES.

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 (0.04")
ALLOWABLE DEFL.(TL)= L/360 (0.47")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.07")

CSI: TC=0.42/0.97 (E-F:1) , BC=0.29/0.97 (I-J:1) , WB=0.37/0.97 (F-H:1) , SSI=0.23/1.00 (C-D:1)

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

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= 0.87 (F) (INPUT = 0.90)
JSI METAL= 0.51 (B) (INPUT = 1.00)

KOTT

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
NE0723-039	G14	1	1	TRUSS DESC.	

MHP 23031

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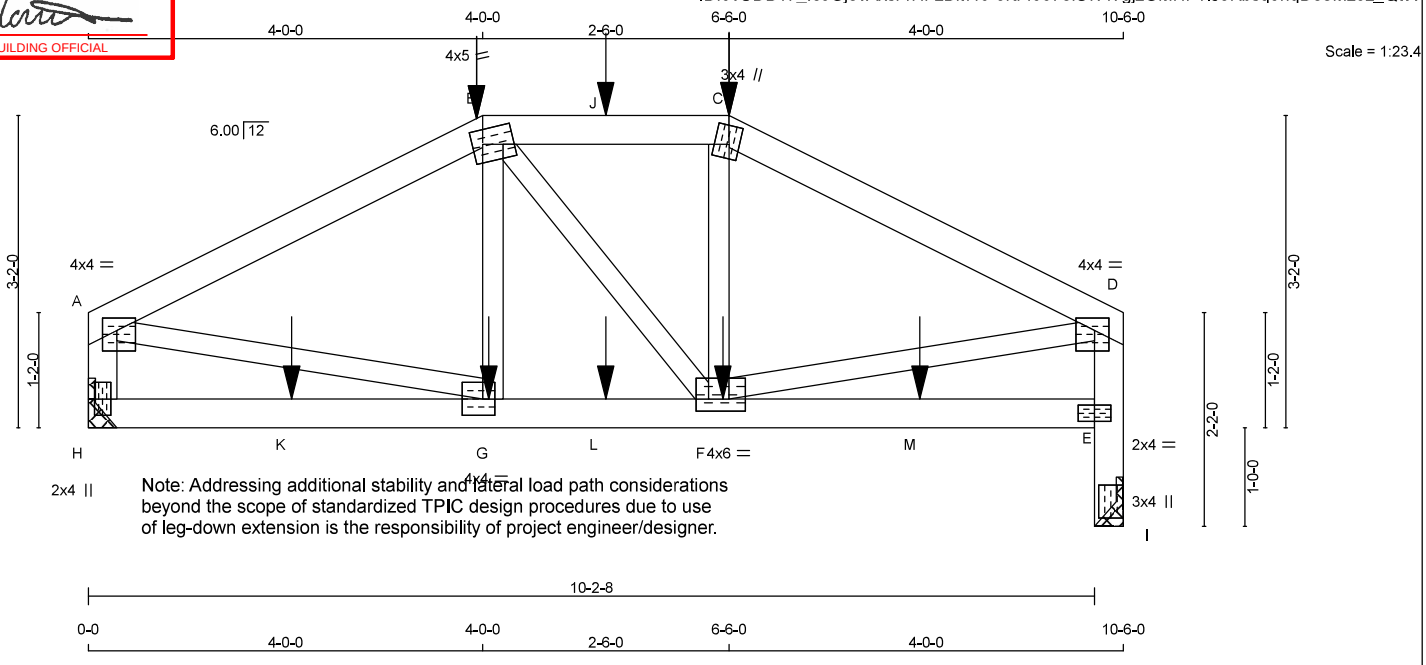

Note: Addressing additional stability and lateral load path considerations beyond the scope of standardized TPIC design procedures due to use of leg-down extension is the responsibility of project engineer/designer.

TOTAL WEIGHT = 41 lb [M]

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 - D	2x4	DRY	No.2	SPF
H - A	2x4	DRY	No.2	SPF
I - D	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
A	TMVW-p	MT20	4.0	4.0	1.50	1.75
B	TTWW-m	MT20	4.0	5.0	1.75	1.25
C	TTW+m	MT20	3.0	4.0	2.25	1.25
D	TMVW-p	MT20	4.0	4.0	1.50	1.75
E	BVM-I	MT20	2.0	4.0		
F	BMWWW-t	MT20	4.0	6.0	1.50	1.50
G	BMWW-t	MT20	4.0	4.0	2.00	1.50
H	BMV1+p	MT20	2.0	4.0		
I	EBSP-t	MT20	3.0	4.0		1.00

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
H	1079	0	1079	0	0	MECHANICAL	
I	1079	0	1079	0	0	MECHANICAL	

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT H, I. MINIMUM BEARING LENGTH AT JOINT H = 1-8, JOINT I = 3-8.

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
H	753	550 / 0	0 / 0	0 / 0	0 / 0	203 / 0	0 / 0
I	753	550 / 0	0 / 0	0 / 0	0 / 0	202 / 0	0 / 0

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.11 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	-1259 / 0	-119.4	-119.4	0.40 (1)	5.12	G- B	-148 / 38	0.03 (1)
B- J	-1121 / 0	-119.4	-119.4	0.21 (1)	5.65	B- F	0 / 2	0.00 (4)
J- C	-1121 / 0	-119.4	-119.4	0.21 (1)	5.65	F- C	-146 / 40	0.03 (1)
C- D	-1264 / 0	-119.4	-119.4	0.40 (1)	5.11	A- G	0 / 1150	0.28 (1)
H- A	-1039 / 0	0.0	0.0	0.12 (1)	7.58	F- D	0 / 1153	0.29 (1)
I- E	-1079 / 0	0.0	0.0	0.12 (1)	7.48			
E- D	-1038 / 0	0.0	0.0	0.12 (1)	7.59			
H- K	0 / 0	-18.2	-18.2	0.10 (4)	10.00			
K- G	0 / 0	-18.2	-18.2	0.10 (4)	10.00			
G- L	0 / 1120	-18.2	-18.2	0.22 (1)	10.00			
L- F	0 / 1120	-18.2	-18.2	0.22 (1)	10.00			
F- M	0 / 0	-18.2	-18.2	0.10 (4)	10.00			
M- E	0 / 0	-18.2	-18.2	0.10 (4)	10.00			

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
B	4-0-0	-202	-202	—	FRONT	VERT	TOTAL	—	C1
C	6-6-0	-202	-202	—	FRONT	VERT	TOTAL	—	C1
F	6-5-4	-10	-10	—	FRONT	VERT	TOTAL	—	C1
G	4-0-12	-10	-10	—	FRONT	VERT	TOTAL	—	C1
J	5-3-0	-41	-41	—	FRONT	VERT	TOTAL	—	C1
K	2-0-12	-10	-10	—	FRONT	VERT	TOTAL	—	C1
L	5-3-0	-10	-10	—	FRONT	VERT	TOTAL	—	C1
M	8-5-4	-10	-10	—	FRONT	VERT	TOTAL	—	C1

CONNECTION REQUIREMENTS

1) **C1**: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.

DESIGN CRITERIA

*** SPECIAL LOADS ANALYSIS ***
GEOMETRY AND/OR BASIC LOADS CHANGED BY USER.
LOADS WERE DERIVED FROM USER INPUT
NO FURTHER MODIFICATIONS WERE MADE

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

*** NON STANDARD GIRDER ***
ADDT'L USER-DEFINED LOADS APPLIED TO ALL LOAD CASES.

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 (0.02")
ALLOWABLE DEFL.(TL)= L/360 (0.35")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.04")

CSI: TC=0.40/0.97 (C-D:1) , BC=0.22/0.97 (F-G:1) , WB=0.29/0.97 (D-F:1) , SSI=0.18/1.00 (A-B:1)

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

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 (G) (INPUT = 0.90)
JSI METAL= 0.38 (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.

KOTT

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
NE0723-039	J01	9	1	TRUSS DESC.	

MHP 23031

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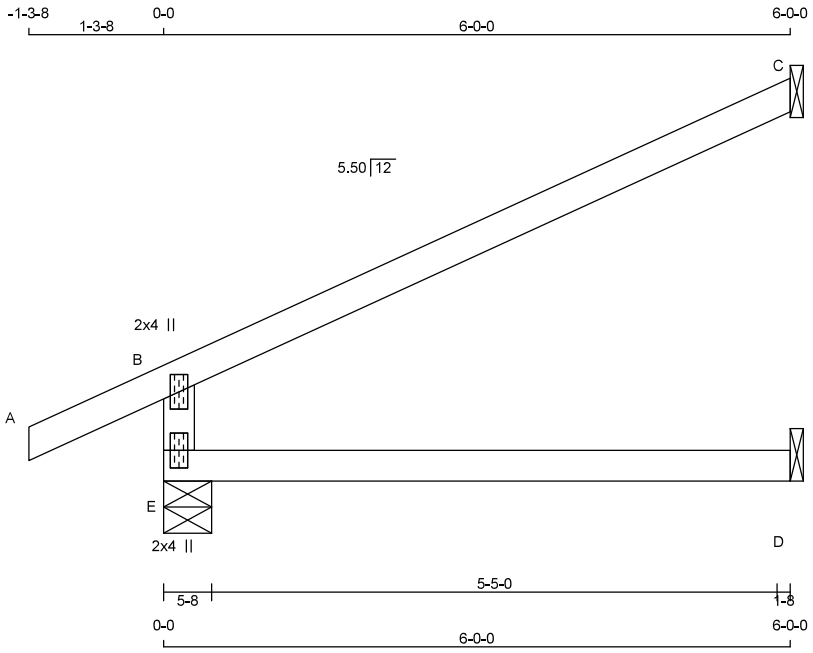

TOTAL WEIGHT = 9 X 17 = 152 lb
[M][F]

LUMBER
N. L. G. A. RULES

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

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

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

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
E	674	0	674	0	0	5-8	1-8
C	269	0	269	0	0	1-8	1-8
D	45	0	50	0	0	1-8	1-8

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

UNFACTORED REACTIONS

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

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

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

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD LC1 (PLF) FROM	TO	MAX CSI (LC)	WEBS MAX. UNBRAC LENGTH	MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
E- B	-609 / 0	0.0	0.0	0.11 (4)	7.81			
A- B	0 / 34	-119.4	-119.4	0.15 (1)	10.00			
B- C	-37 / 0	-119.4	-119.4	0.56 (1)	6.25			
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

DESIGN ASSUMPTIONS
-OVERHANG NOT TO BE ALTERED OR CUT OFF.

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

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

CSI: TC=0.56/0.97 (B-C:1) , BC=0.14/0.97 (D-E:4) , WB=0.00/0.97 (n/a:0) , SSI=0.32/1.00 (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= 0.34 (B) (INPUT = 0.90)
JSI METAL= 0.24 (B) (INPUT = 1.00)

LICENSED PROFESSIONAL ENGINEER
N.A. EL-MASRI
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.

KOTT

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
NE0723-039	J02	7	1	MHP 23031 TRUSS DESC.	

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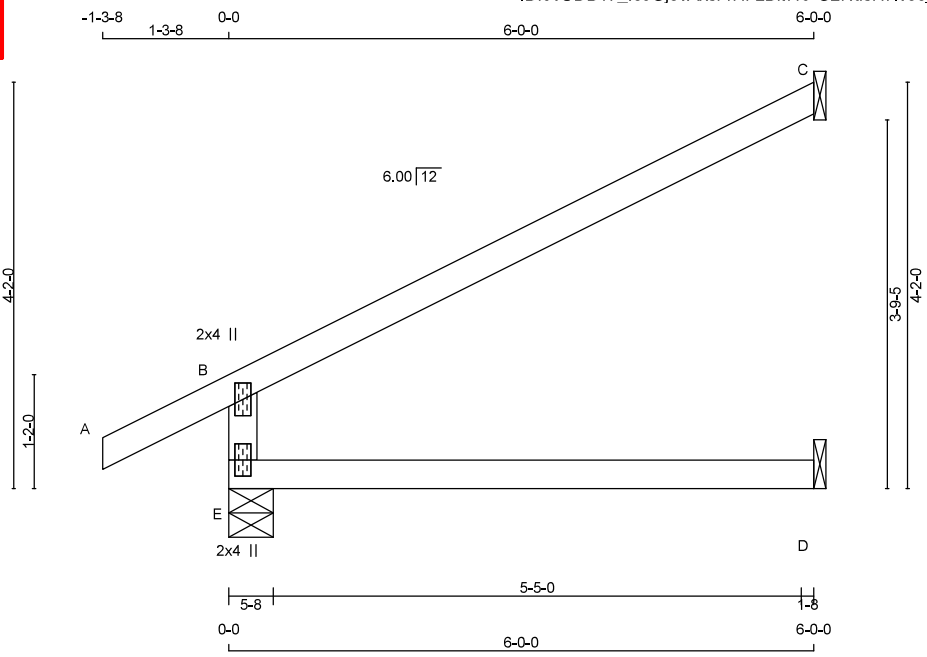

TOTAL WEIGHT = 7 X 17 = 120 lb [M]

LUMBER
N. L. G. A. RULES

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

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

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

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
E	674	0	674	0	0	5-8	1-8
C	269	0	269	0	0	1-8	1-8
D	45	0	51	0	0	1-8	1-8

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

UNFACTORED REACTIONS

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

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

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

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

LOADING
TOTAL LOAD CASES: (4)

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

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

DESIGN ASSUMPTIONS
-OVERHANG NOT TO BE ALTERED OR CUT OFF.

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

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

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

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

PLATE	GRIP(DRY) (PSI) 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= 0.34 (B) (INPUT = 0.90)
JSI METAL= 0.25 (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.

KOTT

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
NE0723-039	J03	19	1	TRUSS DESC.	

MHP 23031

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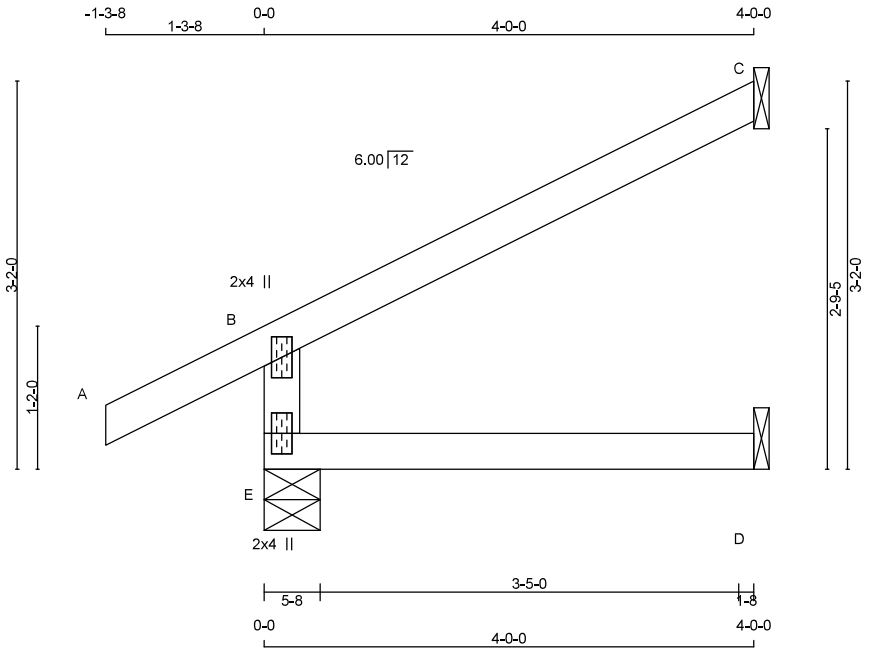

TOTAL WEIGHT = 19 X 12 = 233 lb [M]

LUMBER
N. L. G. A. RULES

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

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

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

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
E	503	0	503	0	0	5-8	1-8
C	179	0	179	0	0	1-8	1-8
D	31	0	35	0	0	1-8	1-8

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

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
E	348	268 / 0	0 / 0	0 / 0	0 / 0	80 / 0	0 / 0
C	123	105 / 0	0 / 0	0 / 0	0 / 0	18 / 0	0 / 0
D	25	0 / 0	0 / 0	0 / 0	0 / 0	25 / 0	0 / 0

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

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

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS MEMB. FR-TO	MAX. FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	WEBS MEMB. FR-TO	MAX. FORCE (LBS)	MAX. FACTORED CSI (LC)
E- B	-460 / 0	0.0	0.0	0.05 (4)	UNBRAC LENGTH		
A- B	0 / 36	-119.4	-119.4	0.16 (1)	7.81		
B- C	-27 / 0	-119.4	-119.4	0.32 (1)	10.00		
E- D	0 / 0	-18.2	-18.2	0.06 (4)	6.25		
					10.00		

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

DESIGN ASSUMPTIONS
-OVERHANG NOT TO BE ALTERED OR CUT OFF.

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

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

CSI: TC=0.32/0.97 (B-C:1) , BC=0.06/0.97 (D-E:4) , WB=0.00/0.97 (n/a:0) , 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) (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= 0.26 (B) (INPUT = 0.90)
JSI METAL= 0.19 (B) (INPUT = 1.00)

LICENSED PROFESSIONAL ENGINEER
N.A. EL-MASRI
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.

KOTT

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
NE0723-039	J04	2	1	TRUSS DESC.	

MHP 23031

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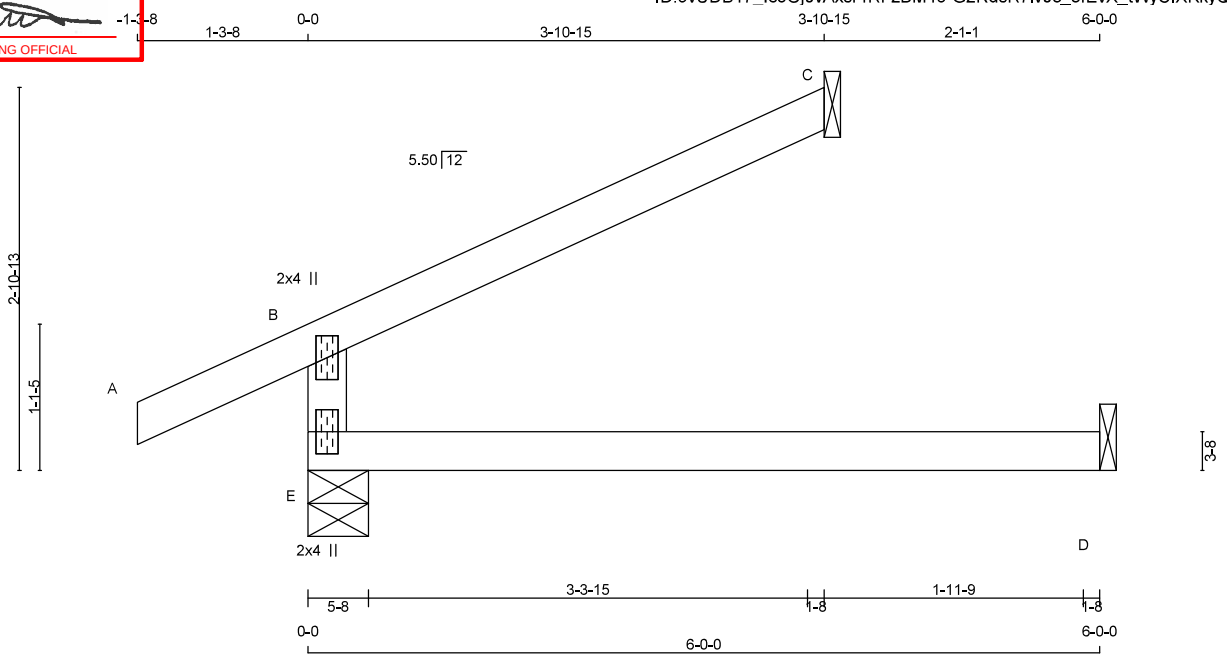

TOTAL WEIGHT = 2 X 14 = 28 lb
[M][F]

LUMBER
N. L. G. A. RULES

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

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

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

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
E	518	0	518	0	0	5-8	1-8
C	175	0	175	0	0	1-8	1-8
D	45	0	50	0	0	1-8	1-8

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

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
E	361	264 / 0	0 / 0	0 / 0	0 / 0	97 / 0	0 / 0
C	120	102 / 0	0 / 0	0 / 0	0 / 0	18 / 0	0 / 0
D	36	0 / 0	0 / 0	0 / 0	0 / 0	36 / 0	0 / 0

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

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

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD LC1 FROM (PLF)	TO	MAX CSI (LC)	WEBS MAX. UNBRAC LENGTH	MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
E- B	-453 / 0	0.0	0.0	0.11 (4)	7.81			
A- B	0 / 34	-119.4	-119.4	0.15 (1)	10.00			
B- C	-24 / 0	-119.4	-119.4	0.24 (1)	6.25			
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

DESIGN ASSUMPTIONS
-OVERHANG NOT TO BE ALTERED OR CUT OFF.

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

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

CSI: TC=0.24/0.97 (B-C:1) , BC=0.14/0.97 (D-E:4) , WB=0.00/0.97 (n/a:0) , 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) (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= 0.25 (B) (INPUT = 0.90)
JSI METAL= 0.18 (B) (INPUT = 1.00)

LICENSED PROFESSIONAL ENGINEER
N.A. EL-MASRI
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.

KOTT

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
NE0723-039	J05	1	1	TRUSS DESC.	

MHP 23031

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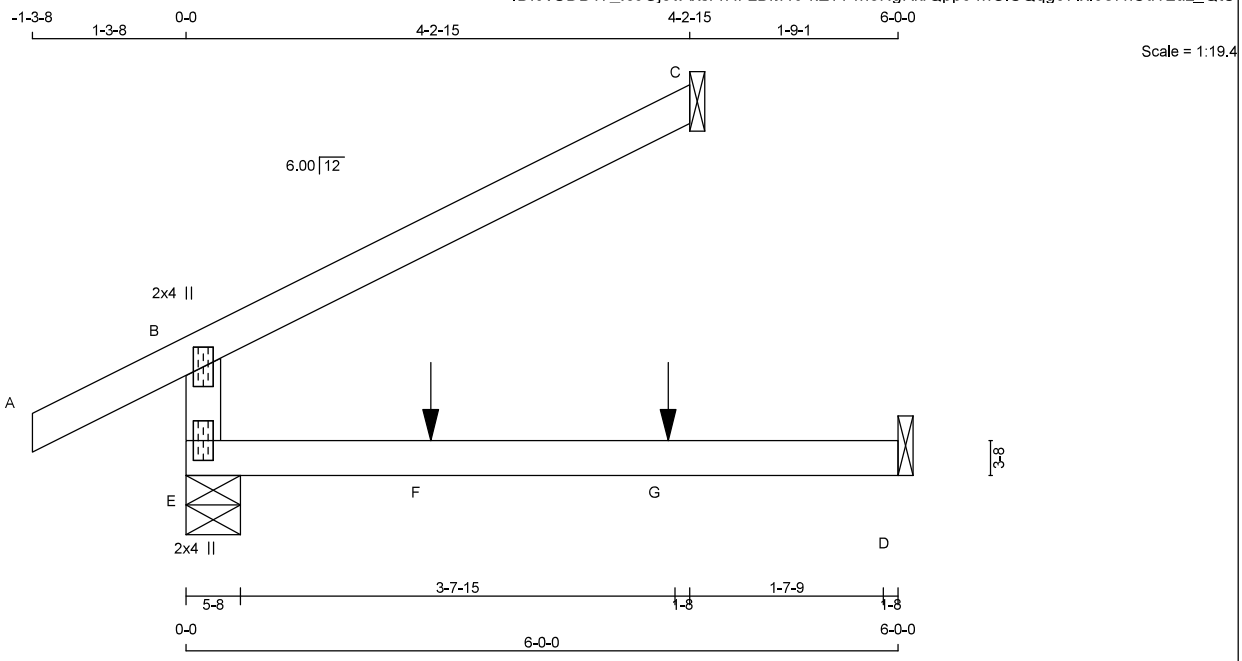

TOTAL WEIGHT = 15 lb [M]

LUMBER
N. L. G. A. RULES

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

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

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

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
E	561	0	561	0	0	5-8	1-8
C	190	0	190	0	0	1-8	1-8
D	57	0	64	0	0	1-8	1-8

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

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
E	393	279 / 0	0 / 0	0 / 0	0 / 0	114 / 0	0 / 0
C	130	111 / 0	0 / 0	0 / 0	0 / 0	19 / 0	0 / 0
D	46	0 / 0	0 / 0	0 / 0	0 / 0	46 / 0	0 / 0

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

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

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

LOADING
TOTAL LOAD CASES: (4)

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	FACTORED FORCE (LBS)	MAX CSI (LC)
E- B	-479 / 0	0.0	0.0	0.18 (4)	7.81			
A- B	0 / 36	-119.4	-119.4	0.16 (1)	10.00			
B- C	-28 / 0	-119.4	-119.4	0.37 (1)	6.25			
E- F	0 / 0	-18.2	-18.2	0.18 (4)	10.00			
F- G	0 / 0	-18.2	-18.2	0.18 (4)	10.00			
G- D	0 / 0	-18.2	-18.2	0.18 (4)	10.00			

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
F	2-0-12	-12	-12	—	BACK	VERT	TOTAL	—	C1
G	4-0-12	-12	-12	—	BACK	VERT	TOTAL	—	C1

CONNECTION REQUIREMENTS

1) **C1:** A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.

DESIGN CRITERIA

*** SPECIAL LOADS ANALYSIS ***
GEOMETRY AND/OR BASIC LOADS CHANGED BY USER.
LOADS WERE DERIVED FROM USER INPUT
NO FURTHER MODIFICATIONS WERE MADE

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

*** NON STANDARD GIRDER ***
ADDT'L USER-DEFINED LOADS APPLIED TO ALL LOAD CASES.

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

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

DESIGN ASSUMPTIONS
-OVERHANG NOT TO BE ALTERED OR CUT OFF.

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

ALLOWABLE DEFL.(LL)= L/360 (0.20")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.20")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.05")

CSI: TC=0.37/0.97 (B-C:1) , BC=0.18/0.97 (D-E:4) , WB=0.00/0.97 (n/a:0) , SSI=0.22/1.00 (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= 0.27 (B) (INPUT = 0.90)
JSI METAL= 0.20 (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.

KOTT

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
NE0723-039	J06	6	MHP 23031	TRUSS DESC.	

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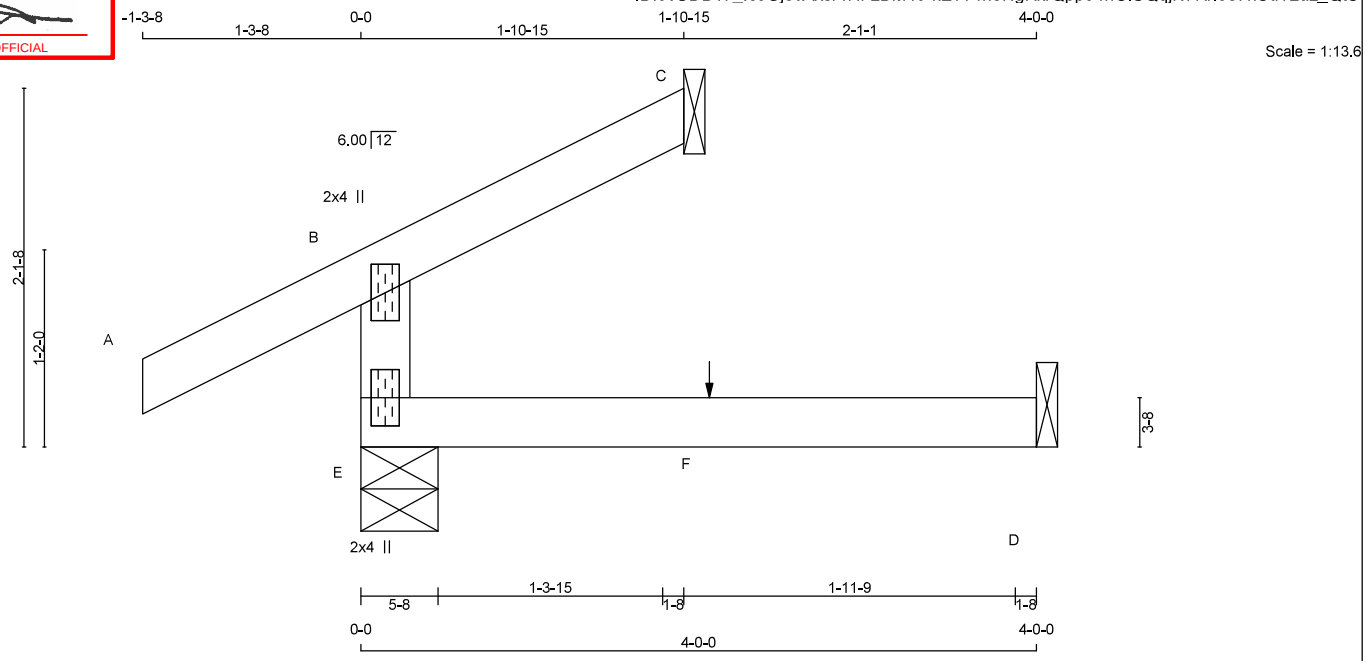

TOTAL WEIGHT = 6 X 10 = 58 lb [M]

LUMBER
N. L. G. A. RULES

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

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

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

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
E	346	0	346	0	0	5-8	1-8
C	86	0	86	0	0	1-8	1-8
D	31	0	35	0	0	1-8	1-8

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

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
E	241	177 / 0	0 / 0	0 / 0	0 / 0	64 / 0	0 / 0
C	59	50 / 0	0 / 0	0 / 0	0 / 0	9 / 0	0 / 0
D	25	0 / 0	0 / 0	0 / 0	0 / 0	25 / 0	0 / 0

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

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

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

LOADING
TOTAL LOAD CASES: (4)

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	FACTORED FORCE (LBS)	MAX CSI (LC)
E- B	-304 / 0	0.0	0.0	0.05 (4)	7.81			
A- B	0 / 36	-119.4	-119.4	0.16 (1)	10.00			
B- C	-12 / 0	-119.4	-119.4	0.07 (1)	6.25			
E- F	0 / 0	-18.2	-18.2	0.06 (4)	10.00			
F- D	0 / 0	-18.2	-18.2	0.06 (4)	10.00			

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
F	2-0-12	1	1	—	BACK	VERT	TOTAL	—	C1

CONNECTION REQUIREMENTS

1) **C1**: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.

DESIGN CRITERIA

*** SPECIAL LOADS ANALYSIS ***
GEOMETRY AND/OR BASIC LOADS CHANGED BY USER.
LOADS WERE DERIVED FROM USER INPUT
NO FURTHER MODIFICATIONS WERE MADE

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

*** NON STANDARD GIRDER ***
ADDT'L USER-DEFINED LOADS APPLIED TO ALL LOAD CASES.

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 (0.01")

CSI: TC=0.16/0.97 (A-B:1) , BC=0.06/0.97 (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) (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= 0.17 (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.

KOTT

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
NE0723-039	J07	2	1	TRUSS DESC.	

MHP 23031

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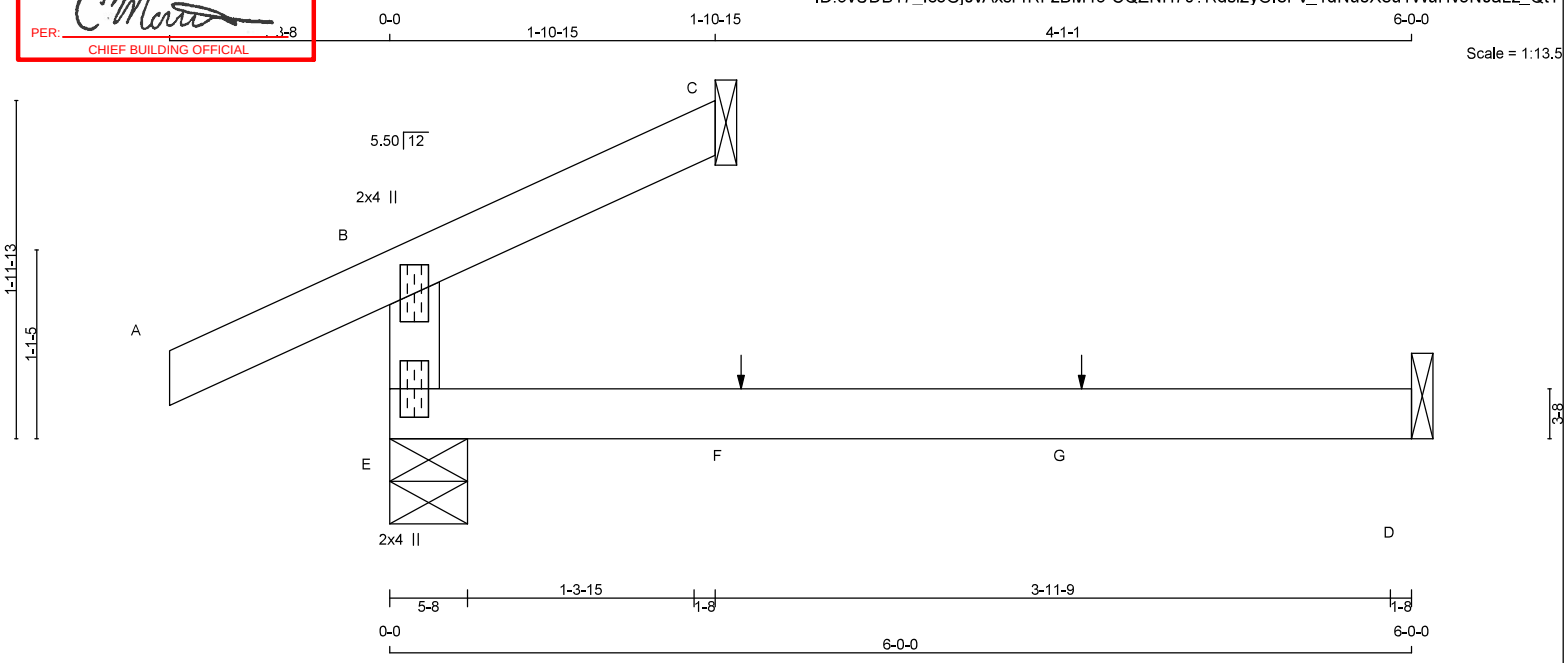

TOTAL WEIGHT = 2 X 12 = 23 lb
[M][F]

LUMBER
N. L. G. A. RULES

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

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

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

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
E	368	0	368	0	0	5-8	1-8
C	86	0	86	0	0	1-8	1-8
D	45	0	50	0	0	1-8	1-8

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

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
E	259	177 / 0	0 / 0	0 / 0	0 / 0	82 / 0	0 / 0
C	59	50 / 0	0 / 0	0 / 0	0 / 0	9 / 0	0 / 0
D	36	0 / 0	0 / 0	0 / 0	0 / 0	36 / 0	0 / 0

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

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

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

LOADING
TOTAL LOAD CASES: (4)

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)
E- B	-304 / 0	0.0	0.0	0.11 (4)	7.81			
A- B	0 / 34	-119.4	-119.4	0.15 (1)	10.00			
B- C	-12 / 0	-119.4	-119.4	0.06 (1)	6.25			
E- F	0 / 0	-18.2	-18.2	0.14 (4)	10.00			
F- G	0 / 0	-18.2	-18.2	0.14 (4)	10.00			
G- D	0 / 0	-18.2	-18.2	0.14 (4)	10.00			

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
F	2-0-12	1	1	—	FRONT	VERT	TOTAL	—	C1
G	4-0-12	1	1	—	FRONT	VERT	TOTAL	—	C1

CONNECTION REQUIREMENTS

1) **C1:** A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.

DESIGN CRITERIA

*** SPECIAL LOADS ANALYSIS ***
GEOMETRY AND/OR BASIC LOADS CHANGED BY USER.
LOADS WERE DERIVED FROM USER INPUT
NO FURTHER MODIFICATIONS WERE MADE

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

*** NON STANDARD GIRDER ***
ADDT'L USER-DEFINED LOADS APPLIED TO ALL LOAD CASES.

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

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

DESIGN ASSUMPTIONS
-OVERHANG NOT TO BE ALTERED OR CUT OFF.

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

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

CSI: TC=0.15/0.97 (A-B:1) , BC=0.14/0.97 (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) (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= 0.17 (B) (INPUT = 0.90)
JSI METAL= 0.12 (B) (INPUT = 1.00)

LICENSED PROFESSIONAL ENGINEER
N.A. EL-MASRI
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.

KOTT

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
NE0723-039	J08	1	1	TRUSS DESC.	

MHP 23031

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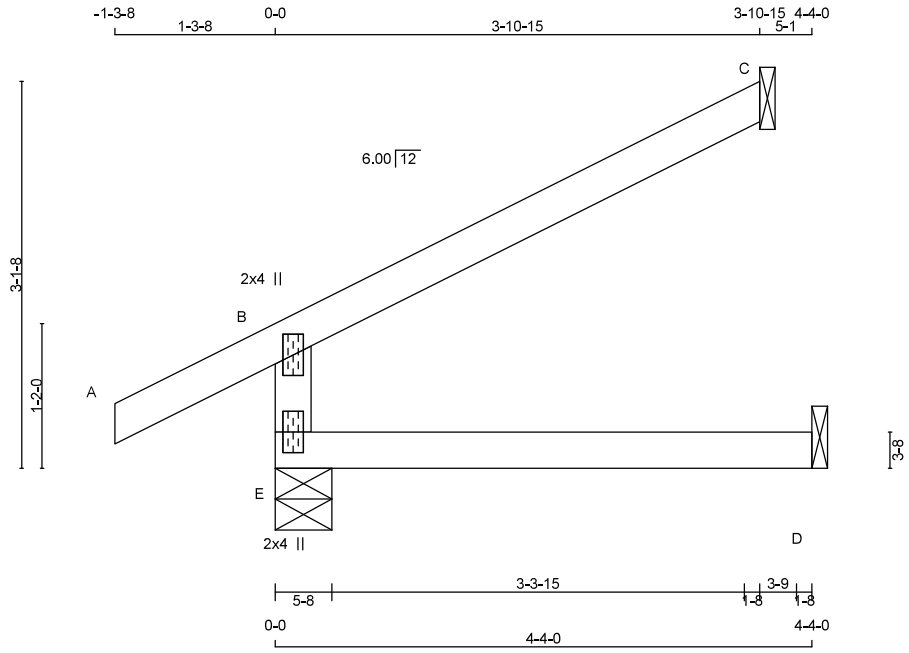

TOTAL WEIGHT = 13 lb [M]

LUMBER
N. L. G. A. RULES

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

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

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

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
E	500	0	500	0	0	5-8	1-8
C	175	0	175	0	0	1-8	1-8
D	33	0	37	0	0	1-8	1-8

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

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
E	347	265 / 0	0 / 0	0 / 0	0 / 0	82 / 0	0 / 0
C	120	102 / 0	0 / 0	0 / 0	0 / 0	18 / 0	0 / 0
D	27	0 / 0	0 / 0	0 / 0	0 / 0	27 / 0	0 / 0

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

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

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD LC1 FROM	TO	MAX CSI (LC)	WEBS MAX. UNBRAC LENGTH	MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
E- B	-454 / 0	0.0	0.0	0.06 (4)	7.81			
A- B	0 / 36	-119.4	-119.4	0.16 (1)	10.00			
B- C	-26 / 0	-119.4	-119.4	0.31 (1)	6.25			
E- D	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

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 (0.01")

CSI: TC=0.31/0.97 (B-C:1) , BC=0.07/0.97 (D-E:4) , WB=0.00/0.97 (n/a: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) (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= 0.25 (B) (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.

KOTT

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
NE0723-039	J09	2	1	TRUSS DESC.	

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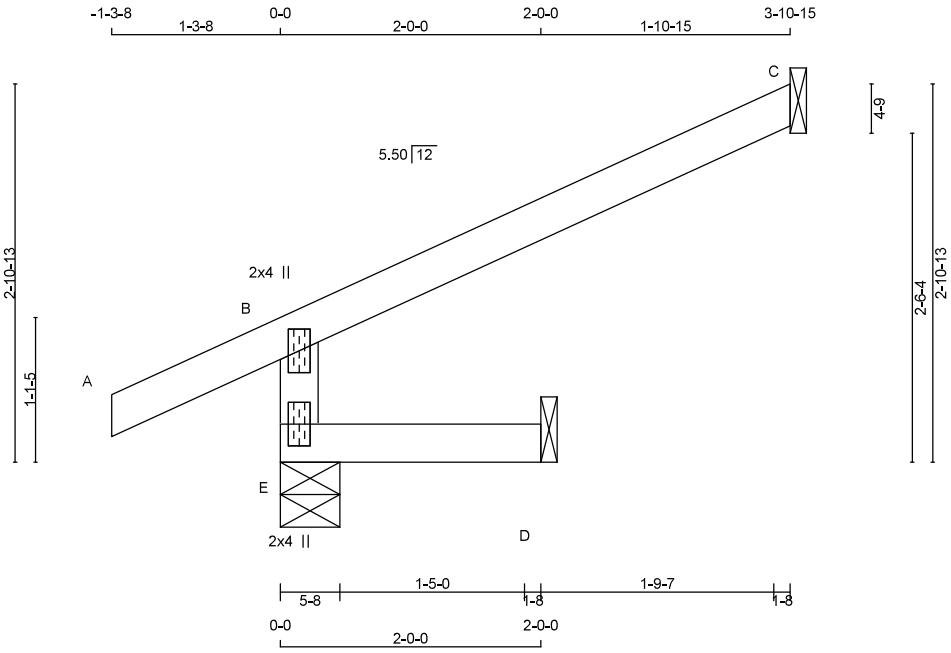

TOTAL WEIGHT = 2 X 10 = 19 lb [M]

LUMBER
N. L. G. A. RULES

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

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

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

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
E	474	0	474	0	0	5-8	1-8
C	175	0	175	0	0	1-8	1-8
D	16	0	18	0	0	1-8	1-8

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

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
E	326	264 / 0	0 / 0	0 / 0	0 / 0	62 / 0	0 / 0
C	120	102 / 0	0 / 0	0 / 0	0 / 0	18 / 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)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD LC1 FROM (PLF)	TO	MAX CSI (LC)	WEBS MAX. UNBRAC LENGTH	MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
E- B	-453 / 0	0.0	0.0	0.01 (4)	7.81			
A- B	0 / 34	-119.4	-119.4	0.15 (1)	10.00			
B- C	-24 / 0	-119.4	-119.4	0.31 (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=0.31/0.97 (B-C:1) , BC=0.02/0.97 (D-E:4) , WB=0.00/0.97 (n/a:0) , 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) (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= 0.25 (B) (INPUT = 0.90)
JSI METAL= 0.18 (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.

KOTT

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
NE0723-039	J10	1	1	TRUSS DESC.	

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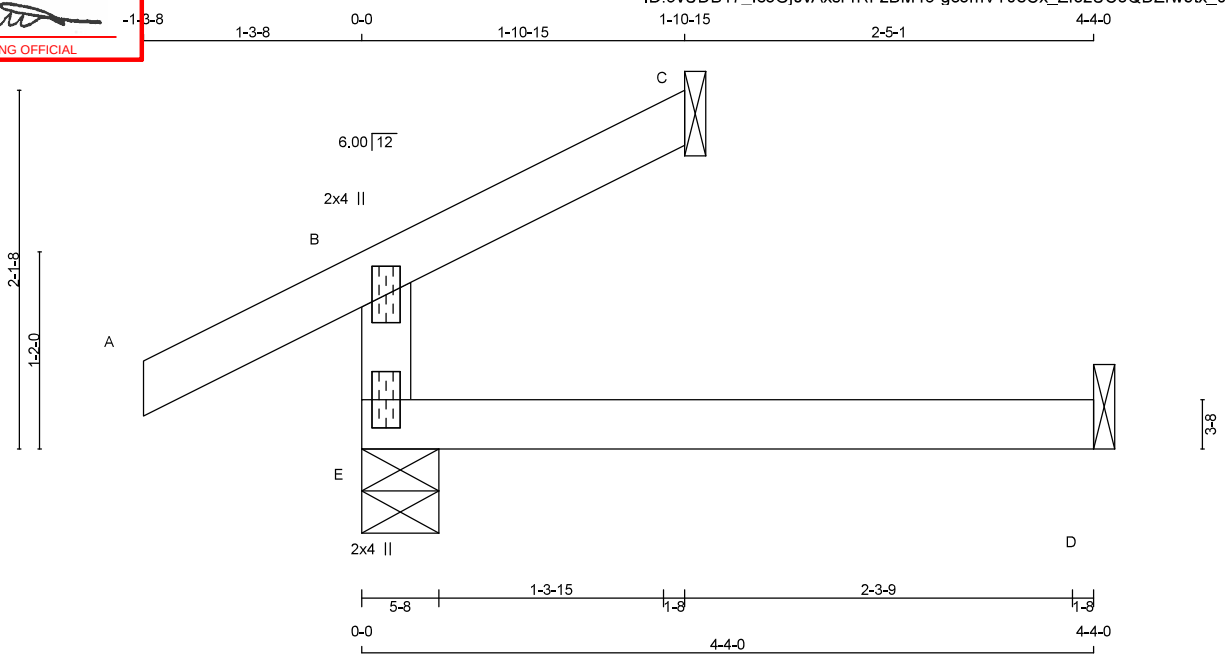

TOTAL WEIGHT = 10 lb [M]

LUMBER
N. L. G. A. RULES

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

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

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

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
E	350	0	350	0	0	5-8	1-8
C	86	0	86	0	0	1-8	1-8
D	33	0	37	0	0	1-8	1-8

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

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
E	244	177 / 0	0 / 0	0 / 0	0 / 0	67 / 0	0 / 0
C	59	50 / 0	0 / 0	0 / 0	0 / 0	9 / 0	0 / 0
D	27	0 / 0	0 / 0	0 / 0	0 / 0	27 / 0	0 / 0

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

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

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD LC1 FROM	TO	MAX CSI (LC)	WEBS MAX. UNBRAC LENGTH	MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
E- B	-304 / 0	0.0	0.0	0.06 (4)	7.81			
A- B	0 / 36	-119.4	-119.4	0.16 (1)	10.00			
B- C	-12 / 0	-119.4	-119.4	0.07 (1)	6.25			
E- D	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

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 (0.01")

CSI: TC=0.16/0.97 (A-B:1) , BC=0.07/0.97 (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) (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= 0.17 (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.

KOTT

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
NE0723-039	J11	2	1	TRUSS DESC.	

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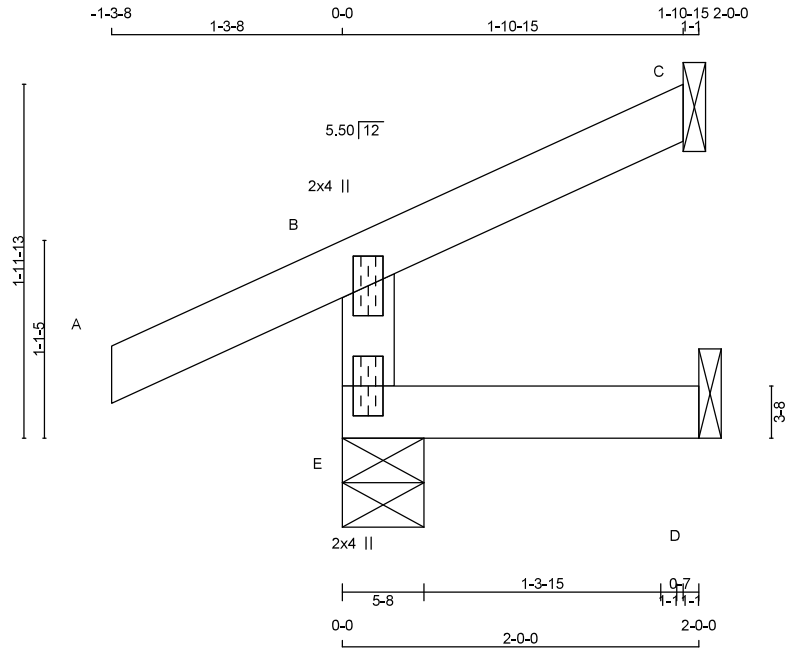

TOTAL WEIGHT = 2 X 7 = 14 lb [M]

LUMBER
N. L. G. A. RULES

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

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

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

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
E	324	0	324	0	0	5-8	1-8
C	86	0	86	0	0	1-8	1-8
D	16	0	18	0	0	1-8	1-8

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

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
E	224	177 / 0	0 / 0	0 / 0	0 / 0	47 / 0	0 / 0
C	59	50 / 0	0 / 0	0 / 0	0 / 0	9 / 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, C

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

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

LOADING
TOTAL LOAD CASES: (5)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD LC1 (PLF) FROM	TO	MAX CSI (LC)	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
E- B	-304 / 0	0.0	0.0	0.01 (4)	UNBRAC LENGTH		
A- B	0 / 34	-119.4	-119.4	0.15 (1)	10.00		
B- C	-12 / 0	-119.4	-119.4	0.07 (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=0.15/0.97 (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) (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= 0.17 (B) (INPUT = 0.90)
JSI METAL= 0.12 (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.

KOTT

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
NE0723-039	J13	3	1	TRUSS DESC.	

MHP 23031

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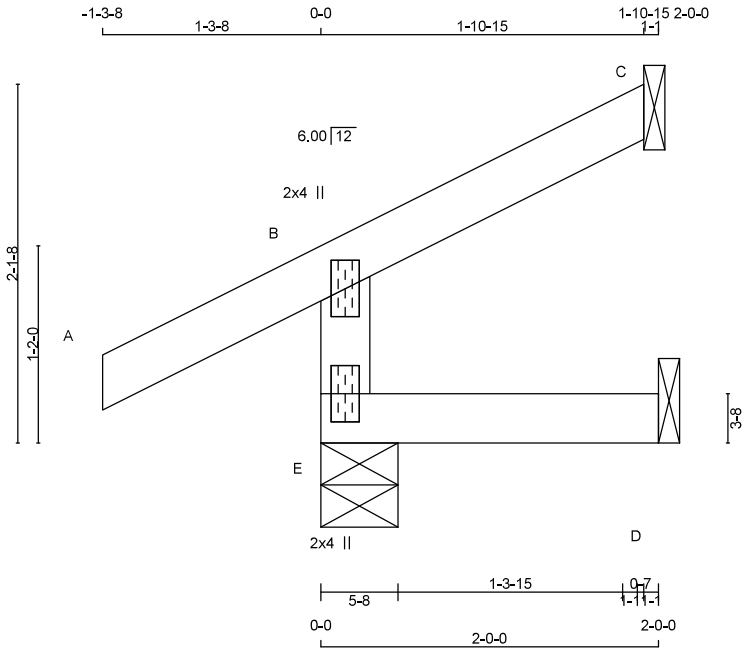

TOTAL WEIGHT = 3 X 7 = 22 lb [M]

LUMBER
N. L. G. A. RULES

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

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

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

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
E	324	0	324	0	0	5-8	1-8
C	86	0	86	0	0	1-8	1-8
D	16	0	18	0	0	1-8	1-8

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

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
E	224	177 / 0	0 / 0	0 / 0	0 / 0	47 / 0	0 / 0
C	59	50 / 0	0 / 0	0 / 0	0 / 0	9 / 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, C

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

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

LOADING
TOTAL LOAD CASES: (5)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD LC1 FROM	TO	MAX CSI (LC)	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
E- B	-304 / 0	0.0	0.0	0.01 (4)	UNBRAC LENGTH		
A- B	0 / 36	-119.4	-119.4	0.16 (1)	7.81		
B- C	-12 / 0	-119.4	-119.4	0.07 (1)	10.00		
E- D	0 / 0	-18.2	-18.2	0.02 (4)	6.25		
					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) (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= 0.17 (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.

KOTT

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
NE0723-039	J14	2	MHP 23031	TRUSS DESC.	

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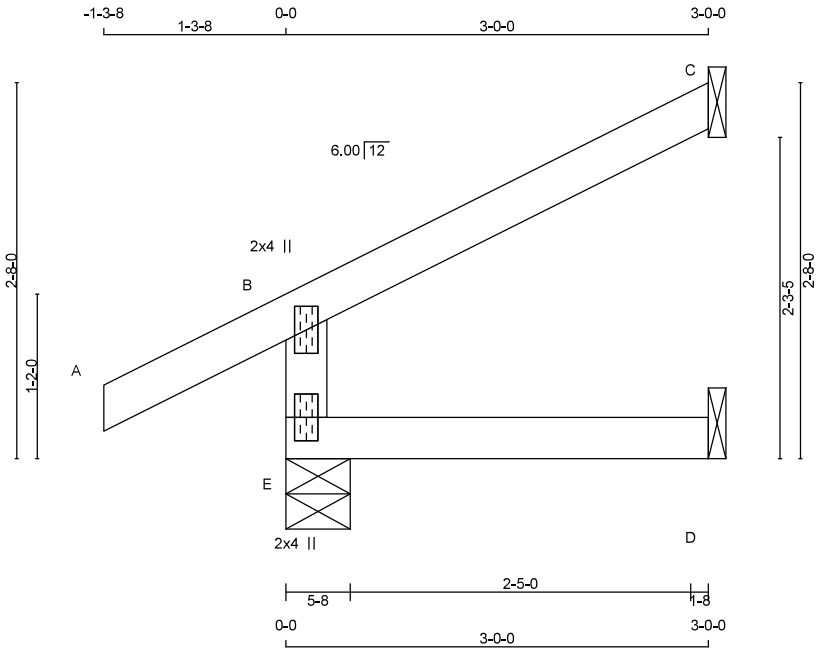

TOTAL WEIGHT = 2 X 10 = 20 lb [M]

LUMBER
N. L. G. A. RULES

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

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

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

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
E	417	0	417	0	0	5-8	1-8
C	135	0	135	0	0	1-8	1-8
D	24	0	27	0	0	1-8	1-8

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

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
E	288	225 / 0	0 / 0	0 / 0	0 / 0	64 / 0	0 / 0
C	92	78 / 0	0 / 0	0 / 0	0 / 0	14 / 0	0 / 0
D	19	0 / 0	0 / 0	0 / 0	0 / 0	19 / 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: (7)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD LC1 FROM	TO	MAX (PLF) CSI (LC)	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC) UNBRAC LENGTH
E- B	-386 / 0	0.0	0.0	0.03 (4)			7.81
A- B	0 / 36	-119.4	-119.4	0.16 (1)			10.00
B- C	-20 / 0	-119.4	-119.4	0.18 (6)			6.25
E- D	0 / 0	-18.2	-18.2	0.04 (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=0.18/0.97 (B-C:6) , BC=0.04/0.97 (D-E:4) , WB=0.00/0.97 (n/a:0) , SSI=0.16/1.00 (B-C:6)

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= 0.22 (B) (INPUT = 0.90)
JSI METAL= 0.16 (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.

KOTT

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
NE0723-039	J15	2	1	TRUSS DESC.	

MHP 23031

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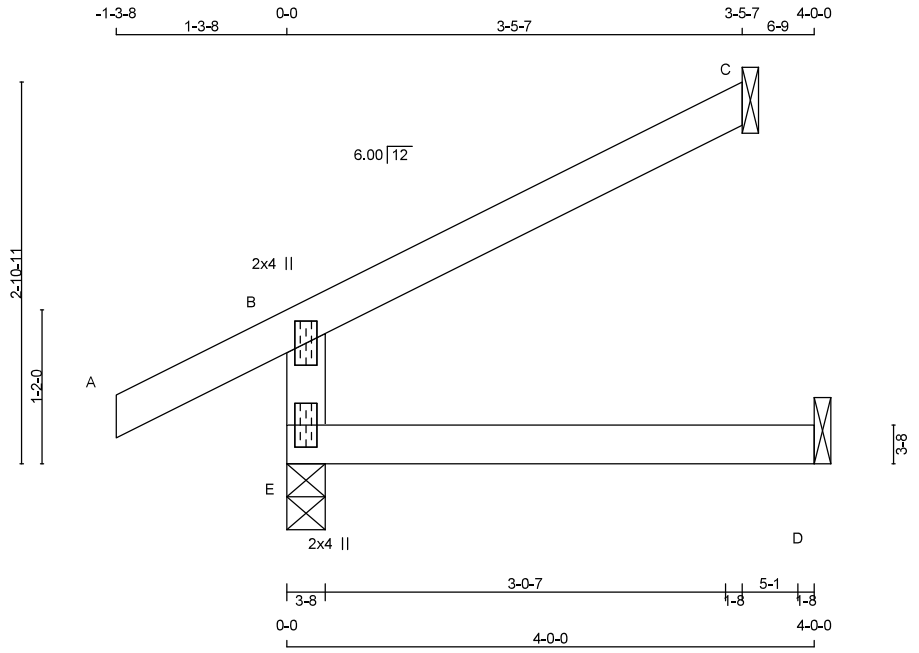

TOTAL WEIGHT = 2 X 12 = 23 lb [M]

LUMBER
N. L. G. A. RULES

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

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

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

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
E	462	0	462	0	0	3-8	1-8
C	155	0	155	0	0	1-8	1-8
D	31	0	35	0	0	1-8	1-8

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

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
E	320	245 / 0	0 / 0	0 / 0	0 / 0	76 / 0	0 / 0
C	106	90 / 0	0 / 0	0 / 0	0 / 0	16 / 0	0 / 0
D	25	0 / 0	0 / 0	0 / 0	0 / 0	25 / 0	0 / 0

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

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

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD LC1 FROM	TO	MAX (PLF) CSI (LC)	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)	UNBRAC LENGTH
E- B	-420 / 0	0.0	0.0	0.05 (4)				7.81
A- B	0 / 36	-119.4	-119.4	0.16 (1)				10.00
B- C	-23 / 0	-119.4	-119.4	0.24 (1)				6.25
E- D	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

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 (0.01")

CSI: TC=0.24/0.97 (B-C:1) , BC=0.06/0.97 (D-E:4) , WB=0.00/0.97 (n/a:0) , 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

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= 0.23 (B) (INPUT = 0.90)
JSI METAL= 0.17 (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.

KOTT

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
NE0723-039	J16	2	1	TRUSS DESC.	

MHP 23031

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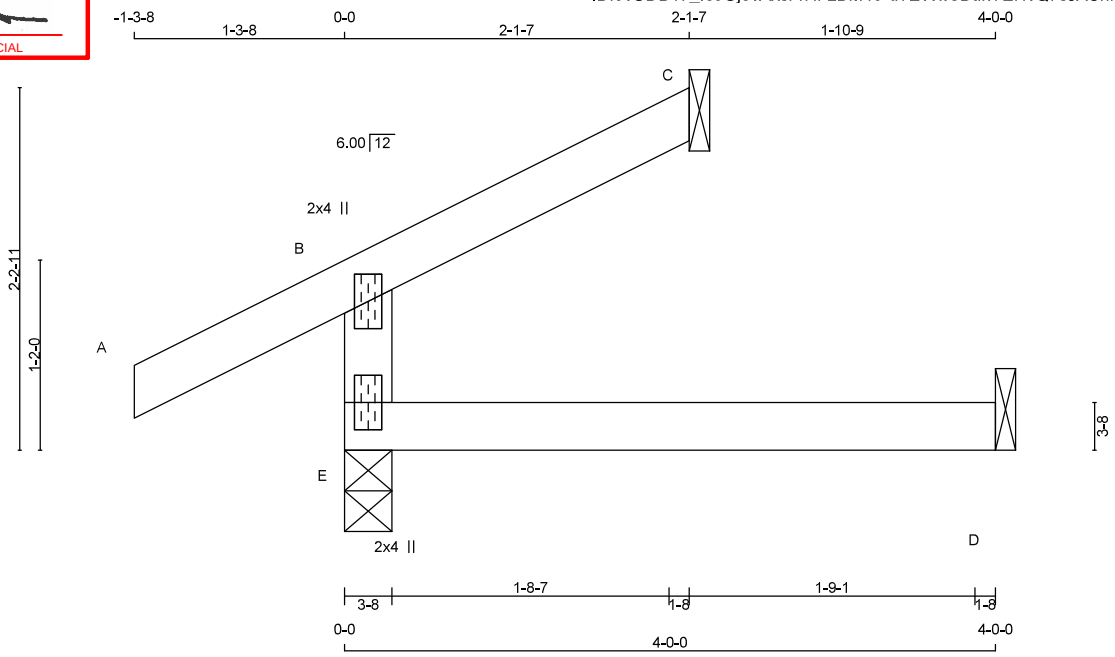

TOTAL WEIGHT = 2 X 10 = 20 lb [M]

LUMBER
N. L. G. A. RULES

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

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

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

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
E	362	0	362	0	0	3-8	1-8
C	95	0	95	0	0	1-8	1-8
D	31	0	35	0	0	1-8	1-8

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

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
E	252	186 / 0	0 / 0	0 / 0	0 / 0	66 / 0	0 / 0
C	65	56 / 0	0 / 0	0 / 0	0 / 0	10 / 0	0 / 0
D	25	0 / 0	0 / 0	0 / 0	0 / 0	25 / 0	0 / 0

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

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

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD LC1 FROM	TO	MAX CSI (LC)	WEBS MAX. UNBRAC LENGTH	MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
E- B	-320 / 0	0.0	0.0	0.05 (4)	7.81			
A- B	0 / 36	-119.4	-119.4	0.16 (1)	10.00			
B- C	-14 / 0	-119.4	-119.4	0.09 (1)	6.25			
E- D	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

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 (0.01")

CSI: TC=0.16/0.97 (A-B:1) , BC=0.06/0.97 (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) (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= 0.18 (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.

KOTT

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
NE0723-039	J17	2	1	TRUSS DESC.	

MHP 23031

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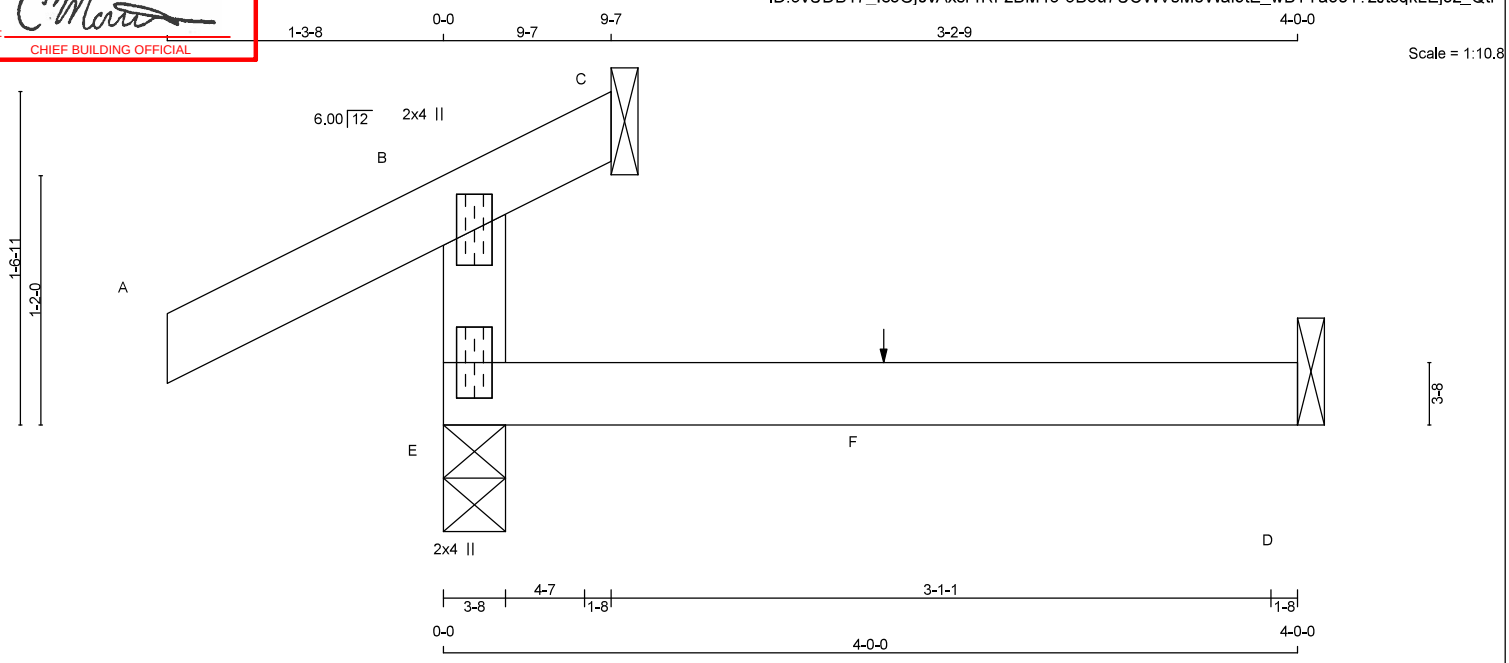

TOTAL WEIGHT = 2 X 8 = 16 lb [M]

LUMBER
N. L. G. A. RULES

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

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

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

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
E	352	0	352	0	0	3-8	1-8
C	-52	0	17	0	-52	1-8	1-8
D	28	0	35	0	0	1-8	1-8

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

PROVIDE ANCHORAGE AT BEARING JOINT C FOR 150 LBS FACTORED UPLIFT

UNFACTORED REACTIONS

	1ST LCASE	MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
E	243	196 / 0	0 / 0	0 / 0	0 / 0	47 / 0	0 / 0
C	-32	0 / -45	0 / 0	0 / 0	0 / 0	12 / 0	0 / 0
D	23	0 / -2	0 / 0	0 / 0	0 / 0	25 / 0	0 / 0

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

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

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 FROM	LC1 TO	MAX CSI (LC)	WEBS MAX. MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)	MAX UNBRAC LENGTH
E- B	-308 / 0	0.0	0.0	0.05 (4)	7.81				
A- B	0 / 36	-119.4	-119.4	0.16 (1)	10.00				
B- C	-44 / 5	-119.4	-119.4	0.11 (1)	6.25				
E- F	0 / 0	-18.2	-18.2	0.06 (4)	10.00				
F- D	0 / 0	-18.2	-18.2	0.06 (4)	10.00				

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
F	2-0-12	1	1	—	BACK	VERT	TOTAL	—	C1

CONNECTION REQUIREMENTS

1) **C1**: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.

DESIGN CRITERIA

*** SPECIAL LOADS ANALYSIS ***
GEOMETRY AND/OR BASIC LOADS CHANGED BY USER.
LOADS WERE DERIVED FROM USER INPUT
NO FURTHER MODIFICATIONS WERE MADE

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

*** NON STANDARD GIRDER ***
ADDT'L USER-DEFINED LOADS APPLIED TO ALL LOAD CASES.

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 (0.01")

CSI: TC=0.16/0.97 (A-B:1) , BC=0.06/0.97 (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) (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= 0.17 (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.

KOTT